ANNUAL REPORTS

Chavez, Carl J, EMNRD

From: Ayarbe, John <jayarbe@geo-logic.com>

Sent: Tuesday, May 1, 2018 2:33 PM

To: Chavez, Carl J, EMNRD

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McVey, Mike

Subject: 2017 Annual Class III Well Report - Salty Dog Brine Station

Attachments: Salty Dog 2017 Annual Report_5-1-2018.pdf

Carl,

Attached is an electronic copy of the 2017 Annual Class III Well Report for the Salty Dog brine station. The report was prepared in accordance with the requirements of discharge permit (DP) BW-8.

Please let me know if you would like a hardcopy mailed to you or OCD, and if you need us to upload the file to the OCD Imaging online system.

Please let Mike or I know if you have questions.

Thanks,

John P. Ayarbe

Senior Hydrogeologist

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2017 Annual Class III Well Report Salty Dog Brine Station

DP BW-8, API No. 30-025-26307 Lea County, New Mexico

Prepared for

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

May 1, 2018



Daniel B. Stephens & Associates, Inc.

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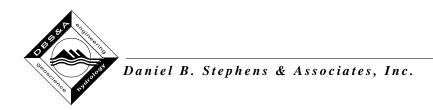
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- A Annual Certification
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- C Laboratory Analytical Reports
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2017 Annual Class III Well Report Salty Dog Brine Station DP BW-8, API No. 30-025-26307 Lea County, New Mexico

1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this annual Class III well report for submission to the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (OCD) Environmental Bureau on behalf of PAB Services, Inc. (PAB) for the operation of a brine well (Brine Supply Well #1 [API No. 30-025-26307]) at the Salty Dog Brine Station (the site). The site is located in Lea County, New Mexico, approximately 11 miles west of Hobbs, New Mexico along U.S. Highway 62/180 (US 62/80) (Figure 1). This report summarizes operational and monitoring activities conducted at the site in 2017, and was prepared in accordance with the requirements of discharge permit (DP) BW-8, last renewed on November 8, 2013 (NMEMNRD, 2013). The submittal of this report meets Condition 2.J of the permit.

Appendix A provides an annual certification signed by Mr. Pieter Bergstein stating that continued salt solution mining will not cause cavern collapse, surface subsidence, property damage, or otherwise threaten public health and the environment based on geologic and engineering data.

Salty Dog is a brine water production and loading station, consisting of fresh water supply wells, a brine production well, and a concrete truck loading pad with two brine filling stations. Fresh water is stored in two 1,000-barrel (bbl) aboveground storage tanks (ASTs). Produced brine is pumped from the brine well to a bermed tank battery consisting of six 750-bbl ASTs, where the brine is stored for sale. The brine well is located approximately 0.5 mile southwest of the brine filling station (Figure 1). Figure 2 presents a 2017 aerial photograph of the brine station showing the layout of the current facility infrastructure.



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Brine is produced from the in situ extraction of salt at the brine well, a UIC Class III well (Brine Supply Well #1 [API No. 30-025-26307]). The brine well is approximately 3,000 feet deep and has been in operation since the early 1980s. The Salty Dog brine well is configured for reverse circulation brine recovery, where fresh water is circulated down the casing annulus into the Salado Formation—a Permian Age sedimentary rock unit composed of halite (salt) and other evaporative beds. Fresh water dissolves the salt, and the brine is extracted through the center tubing of the well. Figure 3 provides a generalized schematic of the brine well showing its construction, current tubing depth, and the penetrated geologic units.

The physical location of the brine well is 1,980 feet from south line (FSL) and 1,980 feet from east line (FEL) (NW/4 SE/4, Unit Letter J) in Section 5, Township 19 South, Range 36 East, New Mexico Principal Meridian (NMPM). The brine well was installed in June 1979. The original discharge permit for the brine well (GWB-2) appears to have been issued on December 18, 1982 (OCD, 1994). The discharge permit was last renewed on November 8, 2013 (NMEMNRD, 2013).

Injection water used in brine production is obtained from the Ogallala Aquifer by pumping from two fresh water supply wells (FWS-1 and FWS-2) and groundwater remediation well RW-2. Well FWS-1 is the main fresh water supply well. Well FWS-2, located near the brine well, is used as an auxiliary fresh water well during periods of high brine demand. Well RW-2 is used to remove and provide hydraulic containment of chloride-impacted groundwater in the brine well area; groundwater extracted from this well is used for brine production. Chloride-impacted groundwater in the former brine pond area is contained and removed by pumping from FWS-1. Depth to regional groundwater is approximately 60 feet below ground surface (bgs). Figure 4 shows the locations of the wells.

2. Brine Well Operational Activities

The following subsections report fluid injection and brine production volumes and well maintenance activities.



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2.1 Fluid Injection and Brine Production

Except for an approximately 2-year shutdown between 2011 and 2013 and temporary interruptions for routine maintenance and testing (e.g., February 2009 sonar survey [SOCON, 2009]), the brine well has been in continuous operation since 1980, producing an average of approximately 10,500 barrels per month (bbl/mo) of brine between 1980 and 2009. This production rate is based on 1987, 1996–1999, and 2009 brine production and sales records (Salty Dog, 1988, 1999, and Undated).

Both fluid injection and brine production volumes are metered, and daily volumes are recorded on monthly fresh and brine water report forms (Appendix B). Table 1 summarizes monthly injection and production volumes for the reporting period. Injection water for the brine well comes from two fresh water wells (FWS-1 and FWS-2) and a groundwater remediation well (RW-2) (Figure 4). In 2017, monthly ratios of injected water to produced brine ranged from 0.97 to 1.08.

Table 1. Monthly Water Injection and Brine Production Volumes, 2017

	Volu	me (bbl)	Ratio
Month	Water Injection	Brine Production	(injection:production)
January	56,015	54,959	1.02
February	45,679	42,556	1.07
March	57,170	55,689	1.03
April	53,925	50,131	1.08
May	51,520	51,083	1.01
June	45,752	46,009	0.99
July	64,910	64,007	1.01
August	57,886	57,863	1.00
September	81,711	80,409	1.02
October	48,785	47,366	1.03
November	50,360	48,747	1.03
December	15,753	16,321	0.97
Annual total	629,466	615,140	_

bbl = Barrels



Based on the data reported in Table 1 and previously reported production records (Salty Dog, 1988, 1999, and Undated; DBS&A, 2014), the estimated cumulative volume of brine production is 6,096,795 bbl.

In 2017, brine production activities at the site dissolved an estimated 89,500 bbl of Salado Formation. This estimate is based on the brine production data reported in Table 1, the average total dissolved solids (TDS) concentrations of the produced brine and injection water reported in Table 2, and an assumed density of the Salado Formation of 2.17 grams per cubic centimeter (g/cm³). The total estimated size of the brine solution cavern is approximately 883,300 bbl, based on the historical and present brine production data. In 2012, OCD estimated a volume of 1,022,196 bbl for the Salty Dog solution cavern (NMEMNRD, 2012).

Table 2. Injection Water and Produced Brine Chemical and Physical Characteristics

	Average Concentration (mg/L ^a)		
Constituent	Injection Water	Produced Brine	
pH (s.u.)	7.76	7.37	
Specific gravity (unitless)	0.997	1.19	
Chloride	270	180,000 ^b	
Sodium	NM	79,500	
TDS	775	316,500	

^a Unless otherwise noted

mg/L = milligram per liter

nm = Not measured

s.u. = Standard units

TDS = Total dissolved solids

2.2 Injection Pressure

Pressure is monitored on the well tubing and on the annulus between the inner tubing and outer casing. These measurements are recorded on the monthly fresh and brine water report forms (Appendix B). In 2017, recorded daily tubing pressure was 100 pounds per square inch (psi), while annulus pressure was 375 psi.

During the second semiannual monitoring event, the chloride concentration of the brine water was not analyzed.



2.3 Chemical and Physical Analyses

Condition 2.A of DP BW-8 requires quarterly monitoring of the chemical and physical characteristics of the injection water and produced brine, including pH, density, and TDS and chloride concentrations. The permit also requires that the sodium concentration of the produced brine be analyzed. Since DP BW-8 was issued, PAB requested that the monitoring frequency be reduced from quarterly to semiannually. In consultation with OCD, PAB initiated semiannual monitoring in 2017.

Table 2 reports average constituent concentrations calculated from the 2017 semiannual monitoring data. Samples of the injection water were collected in June and December 2017. Samples of the produced brine were collected in June 2017 and February 2018. Because the brine well was down during the December 2017 monitoring event, the second semiannual brine sample was collected in February 2018, when the brine well was back in operation. Dissolution of the Salado Formation increases the constituent concentrations and specific gravity of the produced brine relative to the injection water. The average TDS concentration and average specific gravity of the injection water are 775 milligrams per liter (mg/L) and 0.997, respectively, while the same properties of the produced brine are 316,500 mg/L and 1.19, respectively. Appendix C provides the laboratory analytical reports associated with semiannual monitoring events.

Historical water quality analyses show TDS concentrations of the fresh water and produced brine to be approximately 600 mg/L and 320,000 to 350,000 mg/L, respectively (Martin, 1982; Unichem, 1987).

2.4 Deviations from Normal Operations

In December 2017, the brine well was damaged because anhydrite had collapsed the well tubing, stopping brine production (Sayre, 2017). Between December 2017 and February 2018, PAB had the well repaired. The existing well, which was originally drilled to 2,958 feet bgs, was redrilled and cleaned out to 2,791 feet bgs. New tubing was then installed to a depth of 2,610 feet bgs. The tubing was perforated with 0.20-inch-diameter holes from 2,590 to



2,592 feet bgs (Figure 3). Appendix D contains the drilling and repair log and C-103 forms that were submitted to OCD. The brine well was operational again in February 2018.

2.5 Leaks and Spills

There were no leaks or spills in 2017.

2.6 Area of Review

Condition 3.L of DP BW-8 requires Salty Dog to report within 72 hours the discovery of any new wells, conduits, or other devices that are both within a 1-mile radius and may penetrate to the injection zone of the brine well.

Figure 5 shows the area within a 1-mile radius of the brine well presented on a 2017 aerial photograph. The brine station is located on private property in rural southeastern New Mexico, approximately 11 miles west of Hobbs. The majority of the area surrounding the site is undeveloped and owned by the State of New Mexico; however, a property to the west of Salty Dog and within a 1-mile radius of the brine well has undergone recent development. This property is located at the intersection of Highway 529 and Highway 62. The recent development includes the installation of several tanks and pipelines. On March 30, 2017, DBS&A spoke to the Salty Dog operations manager, Jim Sayre, regarding the property. Mr. Sayre said that the property is currently used as a water station and that the owner may seek to use the property for brine production and/or waste disposal by injection. Both brine production and injection disposal have the potential to place new wells within a 1-mile radius of the brine well, and these new wells could penetrate to the Salado Formation.

2.7 Mechanical Integrity Test

In December 2017, the brine well was damaged because anhydrite had collapsed the well tubing. The well was subsequently repaired and operational again in February 2018 (see Section 2.4). On February 9, 2018, before placing the well back in operation, PAB conducted a mechanical integrity test (MIT) on the well; it passed the test. Gary Robinson of OCD was present during the MIT. A record of the MIT is provided in Appendix E.



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Prior to the February 2018 MIT, the last MIT was performed on October 31, 2013, when Salty Dog conducted a Bradenhead test on the brine well. The test showed no problems with the integrity of the well casing. Results of this test were reported to OCD on November 15, 2013.

Pursuant to 20.6.2.5204 New Mexico Administrative Code (NMAC), PAB is required to demonstrate mechanical integrity of the brine well at least once every five years.

3. Other Facility Activities

During the first 2017 semiannual groundwater monitoring event, DBS&A discovered damage to the totalizer flow meter at groundwater remediation well RW-2. The meter had been damaged by cattle. PAB staff replaced the totalizer flow meter in November 2017, and then installed a fence around the well to prevent future damage to the well head and meter.

4. Subsidence Monitoring and Cavern Characterization

A work plan to satisfy Conditions 2.B.1 and 2.B.2 of the renewed DP BW-8 was submitted to OCD on September 17, 2014 (DBS&A, 2014). This work plan describes the proposed technical approach to be used to satisfy the two permit conditions: (1) the design of survey monuments and establishment of a program to monitor for potential surface subsidence, and (2) investigation activities to characterize the size and shape of the solution cavern created by brine production. During a December 9, 2016 phone call between DBS&A (on behalf of PAB) and OCD (Jim Griswold and Carl Chavez), the following actions were agreed to regarding surface subsidence monitoring and solution cavern characterization:

- Five surface subsidence monitoring points would be installed in the brine well area.
 Four of the monitoring points would be installed at the locations and according to the specifications provided in the work plan. The fifth monitoring point would consist of a metal tab welded to the casing of the brine well.
- The five surface subsidence monitoring points would be surveyed semiannually in accordance with the work plan. Geodetic control would be brought in from outside the potential area of influence of the brine well.



 Solution cavern characterization would only be conducted if surface subsidence was detected during semiannual surveying of the subsidence monitoring points.

The five surface subsidence monitoring points were installed in March 2018.

5. Groundwater Conditions

Salty Dog is addressing groundwater impacts resulting from releases at the brine well and a former brine pond. A hole in the casing of the brine well at 250 feet bgs was discovered in 1999 (Salty Dog, 1999). The hole released brine, impacting groundwater, and was repaired in August 1999 by installing a casing liner (Salty Dog, 1999). In October 2008, the brine pond was removed and impacted soil was excavated and disposed of (DBS&A, 2008). The area of the former brine pond is shown in Figures 1 and 2.

Two chloride plumes currently exist at the site: one in the area of the brine station (i.e., the former brine pond area) and a second near the brine well. In 2009, PAB initiated groundwater extraction to remove and provide hydraulic containment of brine-impacted groundwater at the brine station and near the brine well (DBS&A, 2009). Groundwater abatement and monitoring activities are being conducted to satisfy an administrative compliance order issued by OCD (ACO 2008-02) and settlement agreement and stipulated revised final order (NM-OCD 2008-2A) between OCD and Mr. Bergstein.

Groundwater monitoring and extraction data are reported and evaluated in reports submitted to OCD (DBS&A, 2018). The data include water levels and water quality at the site monitor wells. Site monitor wells are shown in Figure 4.

References

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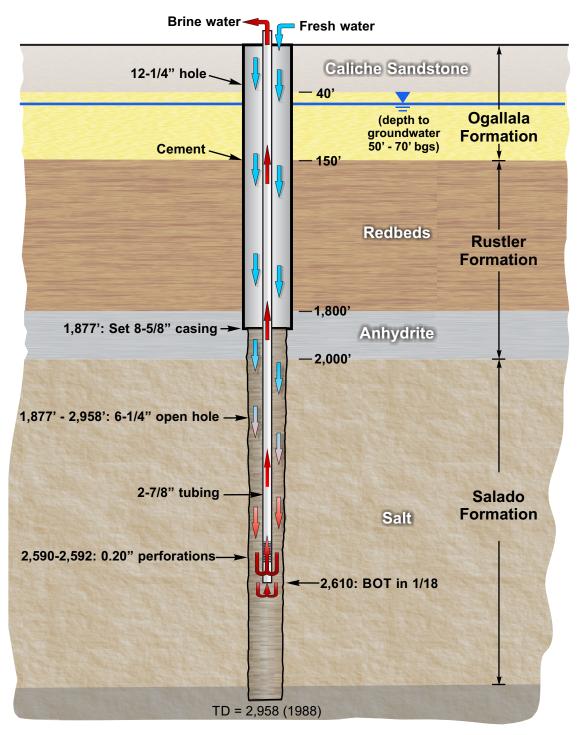
Figures

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SALTY DOG BRINE STATION Site Location and Facilities

Figure :

Salty Dog Brine Well



Notes:

- 1. BOT = Bottom of tubing
- 2. Figure not to scale

Sources:

- 1. Completion data based on OCD well reports
- 2. Lithology from Salty Dog (1988)

SALTY DOG BRINE STATION

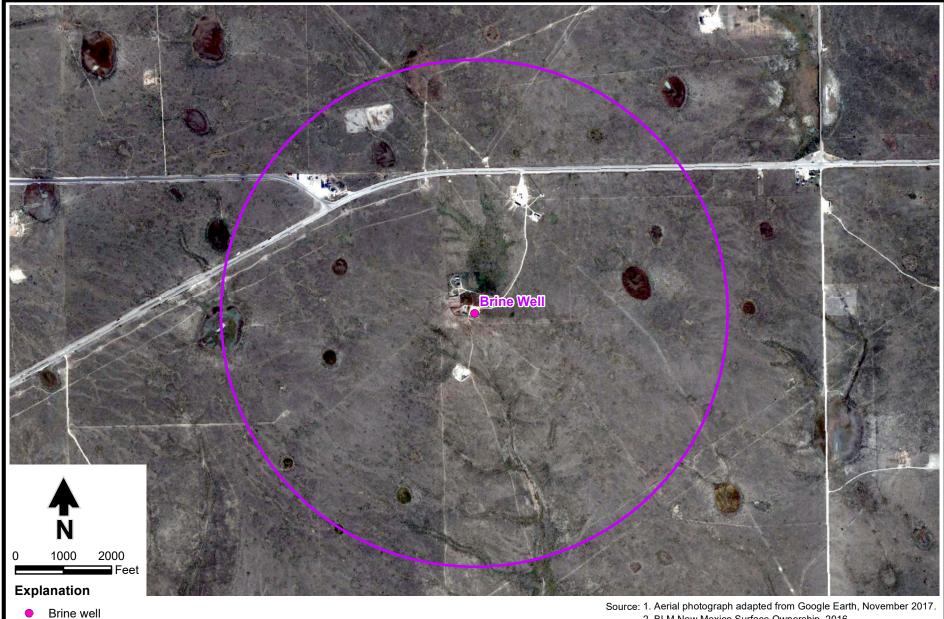
Generalized Brine Well Schematic



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Daniel B. Stephens & Associates, Inc.
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Figure 4



2. BLM New Mexico Surface Ownership, 2016

SALTY DOG BRINE STATION **Area of Review**

Area within a 1-mile radius

Appendix A Annual Certification

Annual Certification

PAB Services, Inc. certifies that continued salt solution mining will not cause cavern collapse, surface subsidence, property damage, or otherwise threaten public health and the environment based on geologic and engineering data.

Name

Title

Signature

Date

Appendix B

2017 Monthly Fresh and Brine Water Report Forms

MOUNT OF FRESH WATER PUMPED DOWN HOLE BBLS 980 400 2750 2315 2315 2350 (100 900		DAILY TUBING PRESSURES PSI 100		
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Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	840	800	100	375	160
2	3720	3610			30
3	1970	1945			
4	2590	2570			
5	2000	1990			
6	700	575			125
7	2075	1910			195
8	3250	3175 1290			90
9	720	620			36
10	1010	950			130
11	1/20	1000			
12	500	300			
13	0	130			70
14	2310	2225			55
15	1870	1735			60
16	2/20	2040			70
17	1710	1600			230
18	830	795		/	
19	2999	2890			
20	3795	3680			125
21	1720	1620			275
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Date	BBLS	BRLS SOLD	PSI	PSI	SOLD
1	850	810	100	375	30
2	480	468		/	100
3	400	360			90
4	1200	1120			150#
5	2570	2,500			-
6	3000	2900			95
7	1070	1030			195
8	3590	3545	1		210
9	2050	200/	1		50
10	3200	3150			
11	1400	1335	-		
12	600	530	\\		
13	1290	1245_			105
14	600	500			349
15	1050	1010			40
16	1200	1170			170
17	900	315			90
18	1395	1355			572
19	2900	2880			
20	52.50	5160			3
21	3120	3085			30
22	2390	2345	/		
23	1695	1630			
24	1400	1350		/	30
25	230	130		/	
26	4100	409/			
27	-0	-6			35
28	2400	2360			60
29	4000	3927			50
30	1310	1297			60
31	1530	1490			80
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	J. J	REPAIRS AND/O	R/EXPENSES		
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authori	zed by

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FACILITY/LOCAT	ION	SALT	Dog
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	AMOUNT OF FRESH	AMOUNT OF			
	WATER PUMPED	BRINE WATER	DAILY TUBING	DAILY CASING	FRESH
	DOWN HOLE	OUT OF HOLE	PRESSURES	PRESSURES	WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	680	660	100	375	
2	200	200			
3	2060	2030			30
4	1010	910			
5	2400	2380			346
6	1990	1960			290
7	820	170			170
8	1100	1050			
9	800	120			
10	3170	3/03			39
11	1626	1585 MAR			280
12	2070	2007			60
13	400	180			250
14	1250	1240			242
15	1160	1120			0
16	1500	1480			8
17	2900	2806			245
18	24061 3300	3260			125
19	2256	2200			165
20	2800	2743			180
21	3720	2692			
22	1930	1900			70
23	1500	1470			
24	2280	2260			830
25	1760	1230			160
26	700	640			
27	1995	1946			230
28	: 3000	2829			290
29	3000	3020			
30	1160	1040			
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	Performing	Descritpion of			
Date	Work/Repairs	Work/Repairs	Estimated Cost	Work Authori	zed by
		Carried and A. W.	1 1 - 1 1 6 - 11 1 Tab	Named Films Of VEATMAN THE FIRE	DIAL Desert Colo

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FACILITY/LOCATION SALTY Dog MONTH/YEAR MAY 2017

7. 15 12 142 7	THE RESERVE THE PARTY OF THE PA		SAN PROPERTY OF THE PROPERTY OF THE PARTY OF	A STATE OF S	SCORP de la
	AMOUNT OF FRESH	AMOUNT OF			
	WATER PUMPED	BRINE WATER	DAILY TUBING	DAILY CASING	FRES
	DOWN HOLE	OUT OF HOLE	PRESSURES	PRESSURES	WATE
Date	BBLS	BBLS SOLD	PSI	PSI	SOLE
1	2300	2150	10.	- 1	330
2	1985	1955			350
3	2110	2098			195
4	3000	2975 340			
5	2380	2340 2			36
6	1250				260
7	600	1210-	-	1	430
8	2040	2000			155
9	700 1400	18308 680			210
10	960	925			36
11	780	745			65
12	2470	2422			30
13	-0	230			80
14	200	670			0-
15	1470	111.15 645			260
16	2659, 4230	4171			40
17	910	860			215
18	1375	1340			20
19	16 80	1620			25
20	13 80				163
21	910	1370 -			-
22	2470	2410			126
23	2365	2347			240
24	1875	1830			540
25	4610	4585		-	170
26	1595	1556			22
27	-8-	435			80
28	1765	1760			00
29	700	630 300			
30	700	680			285
31	2210	2180			40
OTALS	2010	~100			-10
		REPAIRS AND/O	PENSES	A PROPERTY OF	Je Wante
		グロボールロンデーアリープグラン			
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authori	zed hv

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MONTH/YEAR JUNE 2017

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	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	780	75%	100	375	500
2	600	556			70
3	470	450			30
4	0	135			0
5	1280	1250			50
6	900	815			200
7	1600	1580 AL			310
8	710	689			30
9	1580	1510			90
10	600	590			155
11	350	250			110
12	1900	1860			30
13	2150	2134			140
14	820	770			150
15	3640	3595			65
16	1770	1705			75
17	820	710			2
18	1980	1920			
19	3690	3665			350
20	2020	2990			30
21	3070	2924			745
22	2810	275019			240
23	8	339			275
24	-0-	300			8
25	1800	1770			ø
26	1280	1265			270
27	1920	1.905			235
28	2/82	2169			505
29	3150	3125			155
30	1500	1470			230
31					
TOTALS					
		REPAIRS AND/O	SEKPENSES	ASSESSMENT OF THE PROPERTY OF	
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authori	zed by

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MONTH/YEAR JULY 2017

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	AMOUNT OF FRESH	AMOUNTOE			
	AMOUNT OF FRESH	AMOUNT OF	DAIL V TUDINO	DAIL V GAGING	FDEOL
	WATER PUMPED	BRINE WATER		DAILY CASING	FRESI
D-4-	DOWN HOLE	OUT OF HOLE	PRESSURES	PRESSURES	WATE
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	2550	2520	100	375	
2	1900	1880	100	375	
3	2395	2380	100	375	125
4	2105	2084	100	375	130
5	4190	4145	100	375	60
6	2670	2640	100	375	130
7	1950	1930	100	350	
8	800	778	100	375	
9	1170	1150	100	375	
10	2710	2690	100	375	255
11	2455	2437	100	375	60
12	1860	1820	100	375	60
13	1660	1640	100	350	
14	2690	2669	100	3.50	105
15	5045	5005	100	350	55
16	2400	2380.	100	375	
17	2045	2006	100	375	60
18	1975	1915	100	375	60
19	1280	12.5.9	100	375	80
20	1390	13.50	100	375	100
21	16 20	1594	100	375	80
22	1380	1350	100	375	
23	1515	1490	100	350	
24	4095	4060	100	350	2.30
25	1165	1135	1 100	375	120
26	1685	1655	100	375	
27	2800	2715	100	375	140
28	1050	1010	100	375	35
29	1210	1180	100	325	310
30	1050	1010	100	375	50
31	2/00	2070	100	375	100
OTALS	- 21	62,145	1	710	
	Control of the second s	REPAIRS AND/G	D EVDENSES	THE LANGE BURNES	
	Company Performing	Descritpion of			
Date	Work/Repairs	Work/Repairs	Estimated Cost	Work Authori	zed by

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FACILITY/LOCATION SALTY Dog MONTH/YEAR August 2017

	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	1245	1320	100	375	155
2	4360	4340	100	375	130
3	1320	1310	100	375	
4	1500	1490	100	375	
5	1860	1850	100	375	
6	275	760	100	375	120
7	1840	1825	100	375	280
8	5895	5485	100	375	
9	1720	1705	100	375	190
10	1240	1220	100	375	106
11	1 1810	1800	100	375	21
12	1950	1940	100	375	120
13	1425	1410	100	375	130
14	1500	1495	100	375	160
15	1100	1090	100	375	520
16	2215	2.200	100	375	155
17	2315	2305	100	375	180
18	1775	1760	100	375	
19		100	100	375	190
20	0	260	100	375	
21	0	340	100	375	
22	2595	2580	100	375	410
23	1475	1460	100	375	175
24	860	840	100	375	60
25	1180	1160	100	375	
26	1075	1045	100	375	250
27	2150	2120	100 .	375	
28 4	2746	2706	100	375	323
29	10916 3910	3,000	100	375	491
	545863670	3/10	100	375	2
31	3380	3337	1		
OTALS		57966			
		REPAIRS AND/O	N EXPENSES		
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authori	zed by

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FACILITY/LOCATION MONTH/YEAR SOME AMOUNT OF FRESH WATER PUMPED DOWN HOLE BBLS 4520 3/00 1645 2000 2965 2590 9275 1460 2830 2495 2386 3150 3340 1390	AMOUNT OF BRINE WATER OUT OF HOLE BBLS SOLD 4505 3050 1600 1970 2920 2540 4254 1425 28/0 2460 2344 3115 33/2	/	DAILY CASING PRESSURES PSI 375 375 375 375 375 375 375 375 375 375	FRESH WATER SOLD 30 190 280 100 360
AMOUNT OF FRESH WATER PUMPED DOWN HOLE BBLS 4520 3100 1645 2000 2965 2590 4275 1460 2880 2495 2386 3150 3340	AMOUNT OF BRINE WATER OUT OF HOLE BBLS SOLD 4503 3050 1600 1970 2920 2540 4254 1425 2810 2460 2344 3115	DAILY TUBING PRESSURES PSI /00 /00 /00 /00 /00 /00 /00 /	DAILY CASING PRESSURES PSI 375 375 375 375 375 375 375 375 375 375	100 30 130 100 360
AMOUNT OF FRESH WATER PUMPED DOWN HOLE BBLS 4520 3100 1645 2000 2965 2590 9275 1460 2830 2495 2386 3150 3340	AMOUNT OF BRINE WATER OUT OF HOLE BBLS SOLD 4503 30.50 1600 1970 2920 2540 4254 1425 28/0 2460 2344 3115 33/2	DAILY TUBING PRESSURES PSI 100 100 100 100 100 100 100 1	PRESSURES PSI 375 375 375 375 375 375 375 375 375 375	100 30 130 100 360
4520 3100 1645 2000 2965 2590 4275 1460 2880 2495 2386 3150 3340	4505 3050 1600 1970 2920 2540 4254 1425 2810 2460 2344 3115 3312	100 100 100 100 (00 100 100 (00 100 100	375 375 375 375 375 375 375 375 375 375	100 30 180 280 100 360
3100 1645 1000 2965 2590 4275 1460 2880 2495 2386 3150 3340	30.50 1600 1970 2920 2540 4254 1425 2810 2460 2344 3115 3312	100 100 100 100 100 100 100 100 100	375 375 375 375 375 375 375 375 375	30 1 9 0 2 8 0 100 36
3100 1645 1000 2965 2590 4275 1460 2880 2495 2386 3150 3340	1600 1970 2920 2540 4254 1425 2810 2460 2344 3115 3312	100 100 (00 100 100 100 100 100	315 375 375 375 375 315 315 325 375	30 1 9 0 280 100 36
1645 2000 2965 2590 4275 1460 2880 2495 2386 3150 3340	1970 2920 2540 4254 1425 2810 2460 2344 3115 3312	100 (00 100 100 100 (00 100 100	375 375 375 375 375 375 375	30 1 9 0 280 100 36
2965 2965 2590 4275 1460 2880 2495 2386 3150 3340	1970 2920 2540 4254 1425 2810 2460 2344 3115 3312	(00 100 100 100 100 100 100	375 375 375 375 375 375	30 1 9 0 2 8 0 100 36
2965 2590 4275 1460 2880 2495 2386 3150 3340	2920 2540 4254 1425 2810 2460 2344 3115 3312	100 100 100 100 100 100	375 375 315 325 375	190
2590 4275 1460 2880 2495 2386 3150 3340	4254 1425 2810 2460 2344 3115 3312	100 100 100 100 100	375 315 325 375	100
4275 1460 2880 2495 2386 3150 3340	4254 1425 2810 2460 2344 3115 3312	100 100 100 100 100	375 315 325 375	100
1460 2880 2495 2386 3150 3340	1425 2810 2460 2344 3115 3312	100 100 100 100	315 325 375	36
28 80 2495 2386 3150 3340	28/0 2460 2344 3115 33/2	100	325 375	
2495 2386 3150 3340	2344 3115 33/2	100	375	
2386 3150 3340	2344 3115 33/2	100		130
3150	3115			37
3340	33/2	1/10	375	8/0
		100	375	280
13 10	1365	100	375	840
3080	3050	100	375	355
800	110		375	
		100		
2650	2600	100	375	700
1790	4682	100	375	100
4700		100		
2095	2045	100	325	
16 80	1620	100	375	70
3595	3355	100	375	29
2870	2800	100	375	130
3580	3530	100	375	13 0
2175	2135	100	375	
3350	3303+	100	375	16:
		100		
2475		100	375	186
3720	3790	100	375	30
1760	1710	100	375	
	80,409			
	REPAIRS AND/O	R EXPENSES		
Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authoria	zed by
	3195 2475 3720 1760 Company Performing	3/95 3/65 ² 2475 2439 3720 3790 1760 1710 80,409 REPAIRS AND/O Company Performing Descritpion of	3195 3/65 ² /00 2475 2439 /00 3720 3790 /00 1760 1710 /00 80,409 REPAIRS AND/OR EXPENSES Company Performing Descritpion of	3195 3/65 ² 100 325 2475 2439 100 375 3720 3790 100 375 1760 1710 100 375 80,409 REPAIRS AND/OR EXPENSES Company Performing Descritpion of

FACILITY/LOCATION SALTY Dog MONTH/YEAR Oct 2017

	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	620	600	100	375	25
2	2100	2055	. 100	375	121
3	1375	1335	100	37.5	200
4	1250	1220	100	375	208
5	2570	2540	100	375	30
6	3200	3170	100	375	285
7	2900	2880	100	375	
8	510	440	100	375	
9	3370	33/0	100	375	10
10	1895	1860	100	375	225
11	1360	1320	100	375	196
12	1000	910	100	375	30
13	700	550	100	375	30
14	610	560	100	375	130
15	615	520	100	375	
16	2420	2405	100	375	140
17	1950	1915	100	375	60
18	420	395	100	375	30
19	1760	1130	100	375	. 30
20	1340	1315	100	375	168
21	2080	2040	100	375	50
22	1530	1500	100	375	
23	2065	2035	100	375	28
24	1700	1656	100	375	650
25	1950	1923	100	375	368
26	2340		100	375	30
27	600	2311 -	100	375	290
28		690	100	375	
29	2150	2130	100	375	
30	895	840	100	375	30
31 46949	800	717	100	375	160 at
OTALS		47366	700		
		REPAIRS AND/O	REXPENSES		
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authorized by	

MONTHYEAR NOU 2017

	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	2500	2450	100	375	290
2	1050	1007	100	375	330
3	830	203	100	375	200
4	560	500	100	375	400
5	690	660	100	375	8
6	1480	1408	100	375	160
7	1210	1152	100	375	570
8	1260	1700	100	375	790
9	13 80	1351	100	375	60
10	2 200	1930	100	325	90
11	1290	1230	100	375	130
12	500	440	100	375	
13	1970	1930	100	375	2.3
14	3030	3000	100	375	4.30
15	1310	1286	100	:375	225
16	4000	3720	100	375	120
17	1785	1760	100	375	2401
18	1850	1820	100	375	185
19	1795	1780	100	375	. 40
20	3220	3210	100	375	415
21	2600	2580	100	375	320
22	1245	1230	100	375	
23	2525	2500	100	375	
24	800	780	100	375	
25	1920	1900	100		240
26	1040	1010	100	375	
27	1500	.1470 .	100	375	90
28	1170	1155	100	375	320
29	_1150	1110	100	325	_ /20
30	2000	1975	100	375	_ 30
31					
OTALS		48827			
e real and a particular particula		REPAIRS AND O	REXPENSES	909770	
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authorized by	

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力是		FACILITY/LOCATION SALTY Dag				
		MONTH/YEAR	December	2017		
		AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRES WATE
	Date	BBLS	BBLS SOLD	PSI	PSI	SOLE
	1	2056	2016	100	325	60
	2	2040	2010	100		
_	3	1360	1340			
	4	1000	9.55			55
	5	920	855			285
-	6	1870	1.855			43.0
_	7	1610	1570			80
105	8	2670	2590			
25 -	9	680	640			
	10	200	120			
_	11	700	011			230
-	12	300	210			-
-	13	0	100	1		630
	14	333	325		/	
	15	0	110		/_/	130
	16	0	-6			- 3-
	17	-8-	0			80
	18	70	60			240
	19	-0	0			. 290
	20	1	130			30
	21	-0	4			
	22	-6-	8			60
	23	0	0			
	24	0	-8			
25 26 27		Carried By	350			
			220			
	-	-	260			
	28	: 2	8			
	29	1	0.			
30	-	D-	8			
	31	2	A			
	TALS					Salita California
		W. Co.	REPAIRS AND/O	KIEXHENGES		21.5
	ate	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authori	zed by

Appendix C

Laboratory Analytical Reports



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

July 17, 2017

John Ayarbe

Daniel B. Stephens & Assoc. 6020 Academy NE Suite 100 Albuquerque, NM 87109

TEL: (505) 822-9400 FAX (505) 822-8877

RE: Salty Dog OrderNo.: 1706B95

Dear John Ayarbe:

Hall Environmental Analysis Laboratory received 13 sample(s) on 6/21/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: PMW-1

Project: Salty Dog
 Collection Date: 6/20/2017 2:30:00 PM

 Lab ID: 1706B95-001
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: MRA
Chloride	13000	500 * mg/L	1E 7/3/2017 7:36:52 PM	R43998

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 17
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1706B95**

Date Reported: 7/17/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: DBS-1R

 Project:
 Salty Dog
 Collection Date: 6/20/2017 3:17:00 PM

 Lab ID:
 1706B95-002
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: MRA
Chloride	320	50 * mg/L	100 6/29/2017 1:02:14 PN	1 R43888

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
		,,,,		

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-2

 Project:
 Salty Dog
 Collection Date: 6/20/2017 3:50:00 PM

 Lab ID:
 1706B95-003
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	59	5.0	mg/L	10 6/29/2017 1:14:38 PN	/ R43888

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-4

 Project:
 Salty Dog
 Collection Date: 6/20/2017 4:15:00 PM

 Lab ID:
 1706B95-004
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	35	5.0	mg/L	10 6/29/2017 1:39:27 PM	1 R43888

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 17
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-5

 Project:
 Salty Dog
 Collection Date: 6/20/2017 4:50:00 PM

 Lab ID:
 1706B95-005
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	170	5.0	mg/L	10 6/29/2017 2:04:17 PM	/ R43888

difiers:	Analyte detected in the associated Method Blank
	Value above quantitation range
	Analyte detected below quantitation limits Page 5 of 17
]	Sample pH Not In Range
F	Reporting Detection Limit
	Sample container temperature is out of limit as specified
-	1 0

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-3

 Project:
 Salty Dog
 Collection Date: 6/20/2017 5:15:00 PM

 Lab ID:
 1706B95-006
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	39	5.0	mg/L	10 6/29/2017 2:53:56 PM	M R43888

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 17
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-9

Project: Salty Dog
 Collection Date: 6/21/2017 7:40:00 AM

 Lab ID: 1706B95-007
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	200	50	mg/L	100 6/29/2017 3:31:10 PM	M R43888

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706B95**

Date Reported: 7/17/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-6

Project: Salty Dog
 Collection Date: 6/21/2017 8:10:00 AM

 Lab ID: 1706B95-008
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	240	50	mg/L	100 6/29/2017 3:55:59 PM	M R43888

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-8

Project: Salty Dog
 Collection Date: 6/21/2017 9:05:00 AM

 Lab ID: 1706B95-009
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	33	5.0	mg/L	10 6/29/2017 4:08:23 PM	M R43888

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-3

Project: Salty Dog
 Collection Date: 6/21/2017 10:55:00 AM

 Lab ID: 1706B95-010
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: MRA
Chloride	10000	500 * mg/L	1E 7/3/2017 7:49:16 PM	R43998

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 10 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706B95**

Date Reported: 7/17/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-5

Project: Salty Dog
 Collection Date: 6/21/2017 10:15:00 AM

 Lab ID: 1706B95-011
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: MRA
Chloride	870	50 * mg/L	100 6/29/2017 6:00:04 PM	/I R43888

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 11 of 17
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Injection

Project: Salty Dog
 Collection Date: 6/21/2017 11:20:00 AM

 Lab ID: 1706B95-012
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL (ual	Units	DF	Date Analyzed	Batch
SPECIFIC GRAVITY						Analys	st: JRR
Specific Gravity	0.9944	0			1	6/28/2017 1:27:00 PM	R43862
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	270	50	*	mg/L	100	6/29/2017 6:24:54 PM	R43888
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS					Analys	st: KS
Total Dissolved Solids	773	20.0	*	mg/L	1	6/25/2017 1:47:00 PM	32462
SM4500-H+B: PH						Analys	t: JRR
рН	7.93		Н	pH units	1	6/27/2017 1:13:43 PM	R43848

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 12 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical ReportLab Order **1706B95**

Date Reported: 7/17/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Brine

Project: Salty Dog
 Collection Date: 6/21/2017 11:15:00 AM

 Lab ID: 1706B95-013
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Q	Qual	Units	DF	Date Analyzed	Batch
SPECIFIC GRAVITY						Analys	t: JRR
Specific Gravity	1.200	0			1	6/28/2017 1:27:00 PM	R43862
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	180000	10000	*	mg/L	2E	6/29/2017 6:49:43 PM	R43888
SM2540C MOD: TOTAL DISSOLVE	SOLIDS					Analys	t: KS
Total Dissolved Solids	324000	2000	*D	mg/L	1	6/25/2017 1:47:00 PM	32462
SM4500-H+B: PH						Analys	t: JRR
рН	7.57		Н	pH units	1	6/27/2017 1:18:06 PM	R43848
EPA METHOD 200.7: METALS						Analys	t: pmf
Sodium	100000	2000		mg/L	2E	7/5/2017 5:41:32 PM	A44011

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 13 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706B95

17-Jul-17

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-A SampType: MBLK TestCode: EPA Method 200.7: Metals

Client ID: PBW Batch ID: A44011 RunNo: 44011

Prep Date: Analysis Date: 7/5/2017 SeqNo: 1387942 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Sodium ND 1.0

Sample ID LCSLL-A SampType: LCSLL TestCode: EPA Method 200.7: Metals

Client ID: BatchQC Batch ID: A44011 RunNo: 44011

Units: mg/L Prep Date: Analysis Date: 7/5/2017 SeqNo: 1387943

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Sodium ND 1.0 0.5000 0 98.2 150

Sample ID LCS-A SampType: LCS TestCode: EPA Method 200.7: Metals

Client ID: LCSW Batch ID: A44011 RunNo: 44011

Prep Date: Analysis Date: 7/5/2017 SeqNo: 1387944 Units: mg/L

%REC %RPD **RPDLimit** Result SPK value SPK Ref Val HighLimit Qual Analyte LowLimit

Sodium 49 1.0 0 97.0 85

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Page 14 of 17

В Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory, Inc.

4.7

WO#: **1706B95**

17-Jul-17

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Chloride

Sample ID MB SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R43888 RunNo: 43888

Prep Date: Analysis Date: 6/29/2017 SeqNo: 1383528 Units: mg/L

5.000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID LCS SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R43888 RunNo: 43888 Units: mg/L Prep Date: Analysis Date: 6/29/2017 SeqNo: 1383529 SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual

0

94.9

110

Sample ID MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: R43998 RunNo: 43998 Prep Date: Analysis Date: 7/3/2017 SeqNo: 1387038 Units: mg/L SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result **PQL** HighLimit %RPD Qual

Chloride ND 0.50

Sample ID LCS SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R43998 RunNo: 43998

0.50

Prep Date: Analysis Date: 7/3/2017 SeqNo: 1387039 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 4.8 0.50 5.000 0 95.8 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

1 IIN I D

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 15 of 17

Hall Environmental Analysis Laboratory, Inc.

0.9947

WO#: **1706B95**

0.0302

20

17-Jul-17

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Specific Gravity

Sample ID 1706B95-012ADUP SampType: DUP TestCode: Specific Gravity

Client ID: Injection Batch ID: R43862 RunNo: 43862

0

Prep Date: Analysis Date: 6/28/2017 SeqNo: 1382491 Units:

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 16 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706B95**

17-Jul-17

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-32462 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 32462 RunNo: 43772

Prep Date: 6/23/2017 Analysis Date: 6/25/2017 SeqNo: 1378753 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-32462 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 32462 RunNo: 43772

Prep Date: 6/23/2017 Analysis Date: 6/25/2017 SeqNo: 1378754 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 987 20.0 1000 0 98.7 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

Page 17 of 17

P Sample pH Not In Range

RL

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	DBS	Work Order Number:	1706B95		RcptNo:	1
Received By:	Erin Melendrez	6/21/2017 4:29:00 PM		une.	,	
Completed By:	Erin Melendrez	6/22/2017 8:33:59 AM		une une	-	
Reviewed By:	az	6/22/17			•	
Chain of Cu	stody					
1. Custody se	eals intact on sample bot	tles?	Yes 🗌	No \square	Not Present 🗹	
2. Is Chain of	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was th	ne sample delivered?		Client			
<u>Log In</u>						
4. Was an att	tempt made to cool the s	amples?	Yes 🗹	No 🗆	na 🗆	
5. Were all sa	imples received at a tem	perature of >0° C to 6.0°C	Yes 🗸	No 🗆	na 🗆	
6. Sample(s)	in proper container(s)?		Yes 🗸	No 🗌		
7. Sufficient s	ample volume for indicat	ed test(s)?	Yes 🗸	No 🗌		
8. Are sample	s (except VOA and ONG	6) properly preserved?	Yes 🔽	No 🗆		
9. Was prese	rvative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
10. VOA vials h	nave zero headspace?		Yes	No 🗆	No VOA Vials 🗹	
11. Were any	sample containers receiv	red broken?	Yes 🗌	No 🗹	# of preserved	
12. Does paper	work match bottle labels	?	Yes 🗸	No 🗆	bottles checked for pH:	
	epancies on chain of cus	• ,	G	\Box	(<≱ o Adjusted?	r >12 unless noted)
	s correctly identified on (Yes ⊻	No □	Adjusted !	_/ V
	hat analyses were reque		Yes 🗹	No ∐	Checked by:	ℓ_{o}
	lding times able to be ma customer for authorizat		Yes 🗸	No 🗀		
Special Hand	dling (if applicable	1				
	notified of all discrepance	-	Yes 🗌	No 🗆	NA 🗹	
Perso	n Notified:	Date				:
By W	hom:	Via:	eMail 🗌	Phone Fax	n Person	
Rega	rding:				Committee of the second sections of the second sections of the second section	
Client	: Instructions:		***************************************	***************************************		
17. Additional	remarks:					•
18. <u>Cooler Inf</u>						
Cooler N			Seal Date	Signed By		
Į1	2.8 Good	Not Present				

C	hain-	of-Cu	stody Record	Turn-Around	Time:		HALL ENVIRONMENTAL														
Client:	DBS	A.R		Standard	□ Rush			All I												AL OR'	
				Project Name	9:				100					ironn						<i>,</i> ,,	•
Mailing	Address	1	Academy RD NE	SAL	TY DOG			40/	24 11									100			
			Academy KUNE	Project #:	11 100	N	-							uque							
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QA/QC F		JELIAK	PBEODBSTEPHENS.CO	Troject Marie	igei.		121)	luo	MR			_		SO,	S.				Hd		
Stan			☐ Level 4 (Full Validation)	J. AY	ARBE		s (8C	Gas	103			SIMS)		0	PCB's					*	
Accredit		V20-57-040-0400		Sampler:			+ TMB's (8021) + TPH (Gas only) RO / DRO / MRO) RO / DRO / MRO) 18.1) 04.1) 8270 SIMS) 8270 SIMS) 78.002, PO4, SO4) 7 8082 PCB's			Specganity											
□ NEL/	AP	□ Othe	er	On Ice:	XYes	□No	S S S / 8 S		6)	96	12	0 70									
□ EDD	(Type)_			Sample Tem	perature: 2.	8	18	핊	9	bo	po	0 0	etal	(3)	cide	8	>-	P	ec.	Sodium	2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (FCL)NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride	TDS, 52	Na So	Air Bubbles (Y or N)
20.17	1430	GW	PMW-1	Poly	none	-001		_						~							
20.17			PM DBS-IR	1	1	-007								/							
.20.17			DBS-2			-003		. 9						1							
20.17			DB5-4			-004								/							
.20.17			DBS-5			-005				J				/			<u> </u>				
5.20.17			DB5-3			-006			1	100				~							
21.17	-		DB5- 9			-007								~							
.21.17		A	DBS-6			-008						2	-	/							
.21.17			DB5-8			-009								/							
6.21.17	07.		MW-3			-010								~							
100000000000000000000000000000000000000	1015	5	MW-5			-011								V							
.21.17			INJECTION	27014	None HWO	-012								S		- 6			Y		
Date: 2/.17 Date:	Time:	Relinquish	ed by:	Received by:	- (Date Time 1629	Ren	narks	S:												



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 01, 2018

John Ayarbe
Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL:
FAX

RE: Salty Dog OrderNo.: 1802942

Dear John Ayarbe:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/16/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1802942**Date Reported: **3/1/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Brine

Project: Salty Dog
 Collection Date: 2/15/2018 1:00:00 PM

 Lab ID: 1802942-001
 Matrix: AQUEOUS
 Received Date: 2/16/2018 9:30:00 AM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
SPECIFIC GRAVITY			Analyst:	JRR
Specific Gravity	1.185	0	1 2/20/2018 12:44:00 PM	R49250
SM2540C MOD: TOTAL DISSO	LVED SOLIDS		Analyst:	KS
Total Dissolved Solids	309000	2000 *D mg/L	1 2/21/2018 7:01:00 PM	36630
SM4500-H+B: PH			Analyst:	JRR
рН	7.16	H pH uni	its 1 2/19/2018 11:44:03 AM	R49228
EPA 6010B: TOTAL RECOVER	ABLE METALS		Analyst:	MED
Sodium	59000	1000 mg/L	1E 2/23/2018 10:50:04 AM	36576

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 4
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1802942**

02-Mar-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-36576 SampType: MBLK TestCode: EPA 6010B: Total Recoverable Metals

Client ID: PBW Batch ID: 36576 RunNo: 49241

Prep Date: 2/16/2018 Analysis Date: 2/20/2018 SeqNo: 1588828 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium ND 1.0

Sample ID LCS-36576 SampType: LCS TestCode: EPA 6010B: Total Recoverable Metals

Client ID: LCSW Batch ID: 36576 RunNo: 49241

Prep Date: 2/16/2018 Analysis Date: 2/20/2018 SeqNo: 1588829 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium 46 1.0 50.00 0 92.6 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: **1802942**

02-Mar-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID 1802942-001ADUP SampType: DUP TestCode: Specific Gravity

Client ID: Brine Batch ID: R49250 RunNo: 49250

Prep Date: Analysis Date: 2/20/2018 SegNo: 1588971 Units:

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Specific Gravity
 1.183
 0
 0.118
 20

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: **1802942**

02-Mar-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-36630 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 36630 RunNo: 49297

Prep Date: 2/20/2018 Analysis Date: 2/21/2018 SeqNo: 1590748 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-36630 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 36630 RunNo: 49297

Prep Date: 2/20/2018 Analysis Date: 2/21/2018 SeqNo: 1590749 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

DBS Client Name: Work Order Number: 1802942 RcptNo: 1 Received By: Sophia Campuzano 2/16/2018 9:30:00 AM u als Completed By: Erin Melendrez 2/16/2018 11:23:26 AM Reviewed By: SICL 02/16/10 Labeled: MW Chain of Custody 1. Is Chain of Custody complete? Yes 🔽 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 Yes 🔽 NA 🗌 No L 4. Were all samples received at a temperature of >0° C to 6.0°C NA 🗆 Yes 🗸 5. Sample(s) in proper container(s)? Yes 🔽 No i 6. Sufficient sample volume for indicated test(s)? Yes 🔽 7. Are samples (except VOA and ONG) properly preserved? Yes No 🔽 8. Was preservative added to bottles? Yes NA 🗀 9. VOA vials have zero headspace? No VOA Vials 🗹 No | 10. Were any sample containers received broken? No 🗹 Yes # of preserved bottles checked No 🗀 11. Does paperwork match bottle labels? for pH: (Note discrepancies on chain of custody) or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No 🗌 13. Is it clear what analyses were requested? Nο 14. Were all holding times able to be met? No 🗌 Yes 🗸 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 NA 🗹 No Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date 1.0 Good Yes

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Date	Time	Matrix গাঁথ তথ	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1802942	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 S	CRA 8 Met	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 11, 2018

John Ayarbe
Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL:
FAX

RE: Salty Dog OrderNo.: 1712D25

Dear John Ayarbe:

Hall Environmental Analysis Laboratory received 12 sample(s) on 12/21/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1712D25

Date Reported: 1/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-6

Project: Salty Dog
 Collection Date: 12/19/2017 2:15:00 PM

 Lab ID: 1712D25-001
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	200	50	mg/L	100 12/29/2017 11:06:16	PM R48148

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1 age 1 01 13
limit as specified
1

Lab Order **1712D25**Date Reported: **1/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-8

Project: Salty Dog
 Collection Date: 12/19/2017 3:10:00 PM

 Lab ID: 1712D25-002
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	28	5.0	mg/L	10 12/29/2017 11:18:40	PM R48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712D25**Date Reported: **1/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-5

Project: Salty Dog
 Collection Date: 12/19/2017 3:45:00 PM

 Lab ID: 1712D25-003
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: MRA
Chloride	850	50 * mg/L	100 12/29/2017 11:55:54	PM R48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	H Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits Page 3 of 15
	ND Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical ReportLab Order **1712D25**

Date Reported: 1/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Injection

Project: Salty Dog
 Collection Date: 12/19/2017 4:35:00 PM

 Lab ID: 1712D25-004
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Q	Qual	Units	DF	Date Analyzed	Batch
SPECIFIC GRAVITY						Analy	st: JRR
Specific Gravity	1.000	0			1	12/27/2017 2:04:00 P	M R48036
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	270	50	*	mg/L	100	12/30/2017 12:20:44	AM R48148
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS					Analy	st: KS
Total Dissolved Solids	776	40.0	*D	mg/L	1	12/27/2017 6:16:00 P	M 35709
SM4500-H+B: PH						Analy	st: JRR
рН	7.59		Н	pH units	1	12/27/2017 12:16:12	PM R48063

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits Page 4 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712D25**Date Reported: **1/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-3

Project: Salty Dog
 Collection Date: 12/20/2017 9:00:00 AM

 Lab ID: 1712D25-005
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: MRA
Chloride	8300	500 * mg/L	1E 1/6/2018 11:36:49 PN	N R48275

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ut of limit as specified

Lab Order **1712D25**

Date Reported: 1/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-9

Project: Salty Dog
 Collection Date: 12/20/2017 9:35:00 AM

 Lab ID: 1712D25-006
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	230	50	mg/L	100 12/30/2017 2:24:50 /	AM A48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits Page 6 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1712D25

Date Reported: 1/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-4

Project: Salty Dog
 Collection Date: 12/20/2017 10:00:00 AM

 Lab ID: 1712D25-007
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	32	5.0	mg/L	10 12/30/2017 2:37:15 A	AM A48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits Page 7 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1712D25

Date Reported: 1/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-2

Project: Salty Dog
 Collection Date: 12/20/2017 10:35:00 AM

 Lab ID: 1712D25-008
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	llyses Result PQL Qual U			DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: MRA
Chloride	37	5.0	mg/L	10 12/30/2017 3:26:54 /	AM A48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712D25**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/11/2018

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-5

Project: Salty Dog
 Collection Date: 12/20/2017 10:50:00 AM

 Lab ID: 1712D25-009
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	lyses Result PQL Qual		al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	170	5.0	mg/L	10 12/30/2017 3:51:44 A	AM A48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712D25**Date Reported: **1/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-3

Project: Salty Dog
 Collection Date: 12/20/2017 11:05:00 AM

 Lab ID: 1712D25-010
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result PQL Qual Units			DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	42	5.0	mg/L	10 12/30/2017 4:16:33 A	AM A48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 10 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712D25**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/11/2018

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-1R

Project: Salty Dog
 Collection Date: 12/20/2017 11:40:00 AM

 Lab ID: 1712D25-011
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	ses Result PQL Qual		al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	190	50	mg/L	100 12/30/2017 4:53:47	AM A48148

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 11 of 15
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1712D25**Date Reported: **1/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: PMW-1

Project: Salty Dog
 Collection Date: 12/20/2017 12:10:00 PM

 Lab ID: 1712D25-012
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	lyses Result PQL Qual Units			
EPA METHOD 300.0: ANIONS			Anal	yst: MRA
Chloride	12000	500 * mg/L	1E 12/30/2017 5:18:36	AM A48148

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 12 of 15
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Result

WO#: 1712D25

Qual

RPDLimit

%RPD

11-Jan-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBW** Batch ID: R48148 RunNo: 48148

PQL

Prep Date: Analysis Date: 12/29/2017 SeqNo: 1544631 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 0.50

Sample ID LCS-b SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R48148 RunNo: 48148 Prep Date: Analysis Date: 12/29/2017 SeqNo: 1544634 Units: mg/L

%REC

LowLimit

Analyte HighLimit Chloride 4.6 0.50 5.000 0 92.4 110

SPK value SPK Ref Val

Sample ID MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: A48148 RunNo: 48148 Prep Date: Analysis Date: 12/30/2017 Units: mg/L SeqNo: 1544693

SPK value SPK Ref Val %REC LowLimit %RPD Result **PQL RPDLimit** Qual Analyte HighLimit

Chloride ND 0.50

Sample ID LCS SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: RunNo: 48148 LCSW Batch ID: A48148

Prep Date: Analysis Date: 12/30/2017 SeqNo: 1544694 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual

0.50 Chloride 4.6 5.000 91.7 90

Sample ID MB TestCode: EPA Method 300.0: Anions SampType: mblk

RunNo: 48275 Client ID: PRW Batch ID: R48275

Prep Date: Analysis Date: 1/6/2018 SeqNo: 1550433 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 0.50

Sample ID LCS SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R48275 RunNo: 48275

Prep Date: Analysis Date: 1/6/2018 SeqNo: 1550434 Units: mg/L

%RPD Result SPK value SPK Ref Val %REC HighLimit **RPDLimit** Analyte PQL LowLimit Qual

Chloride 0.50 97.9 4.9 5.000 90

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 13 of 15

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

0.9988

WO#: **1712D25**

0.170

20

11-Jan-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Specific Gravity

Sample ID 1712D25-004ADUP SampType: DUP TestCode: Specific Gravity

Client ID: Injection Batch ID: R48036 RunNo: 48036

0

Prep Date: Analysis Date: 12/27/2017 SeqNo: 1539533 Units:

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 14 of 15

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712D25

11-Jan-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-35709 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 35709 RunNo: 48046

Prep Date: 12/26/2017 Analysis Date: 12/27/2017 SeqNo: 1539713 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-35709 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 35709 RunNo: 48046

Prep Date: 12/26/2017 Analysis Date: 12/27/2017 SeqNo: 1539714 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

antitation range

Page 15 of 15



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hailenvironmental.com

Sample Log-In Check List

Client Name:	DBS	Work Order Numb	er: 1712D25		RcptNo:	1
Received By:	Sophia Campuzano	12/21/2017 10:18:0	D AM	Jugar Com-		
Completed By:	Dennis Suazo	12/21/2017 2:27:14	PM	Davida	75.	
Reviewed By:	SRE 12/21	117				9
Chain of Cus	tody					
1, Custody sea	ils intact on sample bottles?		Yes	No 🗆	Not Present 🗹	
2. Is Chain of C	Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the	e sample delivered?		Client			
Log In						
4. Was an atte	empt made to cool the samp	les?	Yes 🗸	No 🗆	NA 🗆	
5. Were all san	mples received at a tempera	ture of >0° C to 6.0°C	Yes 🔽	No 🗆	NA 🗆	
6. Sample(s) in	n proper container(s)?		Yes 🗸	No 🗆		
7. Sufficient sa	mple volume for indicated to	est(s)?	Yes 🗹	No 🗆		
8. Are samples	(except VOA and ONG) pro	operly preserved?	Yes 🗹	No 🗆		
Was preserv	ative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10. VOA vials ha	ave zero headspace?		Yes 🗆	No 🗆	No VOA Vials 🔽	
11. Were any sa	ample containers received b	roken?	Yes 🗆	No 🗸	# of preserved	
			-		battles checked	
	vork match bottle labels? pancies on chain of custody	v	Yes 🗹	No 🗔	for pH:	r >12 unless noted)
	correctly identified on Chair	N usanonno	Yes 🗸	No 🏻	Adjusted?	a - 12 dilloss flottacy
	at analyses were requested	16	Yes 🗸	No 🗆		
	ding times able to be met? customer for authorization.)		Yes 🔽	No 🗆	Checked by:	
	ling (if applicable)	11012400000			-	
711	otified of all discrepancies w	nth this order?	Yes 🗌	No 🗆	NA 🗹	7
20000000	Notified:	Date	1			
By Wh	per la constantia de la constantia del constantia del constantia del constantia del constantia del constanti	Via:	eMail	Phone Fax	☐ In Person	
Regard						
LIL SPIREOSES	Instructions:					
17. Additional re						
18. Cooler Info Cooler No	The state of the s	Seal Intact Seal No	Seal Date	Signed By	I	
1	5.7 Good	Not Present			1	

С	hain-	of-Cu	stody Record	Turn-Around	Time:									NIN	TE	20	NI P	ME	NIT	AL	
	DBSA			Project #:						A	N	AL	YS		S L	A	30			ORY	•
Mailing	Address	6020	Acodemy RD NE					4901 Hawkins NE - Albuquerque, NM 87109													
Shite	100							Tel. 505-345-3975 Fax 505-345-4107													
Phone:	#: 505		2-9400		5-0118.1	6						А	naly	/sis	Req	ues					
	Package:	TAYA	RBE	CONTRACTOR	ager: Ayarba	e	TMB's (8021)	TPH (Gas only)	30 / MRO			SIMS)		,PO4,SO4)	2 PCB's			Hd'			
Accreditation		Sampler: 77	7.76:07	eK	IMB	F	0	€	7			NO2	808		30000	20			î		
□ NEL		□ Othe		On Ice:	Yes	□ No	+	+	88	418	504	or 82	s	õ	es/		OA)	63			jo /
□ EDD	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,C),NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	TDS, Specgrav, pH			Air Bubbles (Y or N)
2.19.17	1415	GW	DBS-6	17019		001								×							
1	1510	1	DBS-8			200								X							
	1545		MW-S			003								X							
	1635		Injection			004								X				X			
12.20.E	10900		MW-3			UUS								×							
	0935		DB5-9			006								X						\perp	
	1000		DB5-4			007								×							
	1035		035-2			108								×	1					1	\perp
	1050		DBS-5			009								×							1
	1105		DBS-3			010								×							1
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1	1210		PMW-1/			012								×			_				
Date: 2 <u>/21/i-7</u> Date:	Time: 101 9 Time:	Relinquish	Mila	Received by:	<u>C</u>	Date Time 12(2(117 1018 Date Time	Ker	narks	5:										Ī		

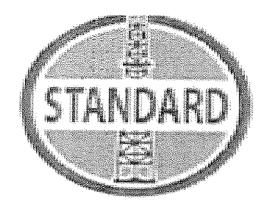
Appendix D

December Well Remediation C-103 Request and Drillers Log

Submit 1 Copy To Appropriate District Office Office Office Office	Form C-103
District I – (575) 393-6161 Energy, Minerals and Natural Resources	Revised August 1, 2011
1625 N. French Dr., Hobbs, NM 88240	WELL API NO. 30-025-26307
District II – (575) 748-1283 811 S. First St., Artesia, NM 88210 DEC 1 8 2812 CONSERVATION DIVISION District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505 SUNDRY NOTICES AND REPORTS ON WELLS	5. Indicate Type of Lease
District III – (505) 334-6178 1220 South St. Francis Dr.	STATE FEE
District IV – (505) 476-3460 Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NN	25087
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	BOINC SUPPLY Well
1. Type of Well: Oil Well Gas Well Other Brine Well	8. Well Number 00/
2. Name of Operator	9. OGRID Number
SALTY DOG INC	184208
3. Address of Operator	10. Pool name or Wildcat
PO BOX 190 Lubbuck TX 79408	BSW + SALADO
4. Well Location	040
	980 feet from the <u>EAST</u> line
Section 5 Township 19 5 Range 36 E	NMPM County LEA
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	
12. Check Appropriate Box to Indicate Nature of Notice,	Report or Other Data
NOTICE OF INTENTION TO: SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ REMEDIAL WORK	
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ COMMENCE DRI	
PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMENT	I JOB
DOWNHOLE COMMINGLE	
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Submit 1 Copy To Appropriate District Office District I – (575) 393-6161 Energy, Minerals and Natural Resources	Form C-103
Office District I – (575) 393-6161 Erectly, Minerals and Natural Resources	Revised August 1, 2011 WELL API NO.
District II - (575) 748-1283	30-025-26307
<u>District III</u> – (505) 334-6178	5. Indicate Type of Lease STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505	25087
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	Brine Supply Well
1. Type of Well: Oil Well Gas Well Other BriNe Well	8. Well Number
2. Name of Operator PAB SERVICES DBA SALTY Day INC	9. OGRID Number 184208
3. Address of Operator	10. Pool name or Wildcat
4. Well Location 190 Lubbock Tex45 79408	BSW + SALAdo
Unit Letter 5: 1980 feet from the South line and 19	980 feet from the FAS line /
Section 5 Township /9 5 Range 3 6 E	NMPM Le4 County
11. Elevation (Show whether DR, RKB, RT, GR, etc.	
12. Check Appropriate Box to Indicate Nature of Notice,	Report or Other Data
	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☑ PLUG AND ABANDON ☐ REMEDIAL WOR TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ COMMENCE DR	
PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMEN	
DOWNHOLE COMMINGLE	
OTHER: OTHER:	
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proposed completion or recompletion.	11100-
Rig of pulling Wait	.A CHART TEST -
Pull tubing	
Replace Danaged Tubing RUN	PK 18004- 1ES
Replace Danaged Tubing 90 back Into Hola CA	PK 1800 4/- TEST STUG TO 300#+ FOR
Replace Danaged Tubing 90 back Into Hola CA 3E	PK 1800 4- 1EST SOUG TO 300#+ FOR mins.
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Condition of Approval: notify OCD Hobbs office 24 hours	OMINS.
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Condition of Approval: notify OCD Hobbs office 24 hours	OMINS.
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Condition of Approval: notify OCD Hobbs office 24 hours prior of running MIT Test & Chart Spud Date: 1-9-18 Rig Release Date: Thereby certify that the information above is true and complete to the best of my knowledge.	omins. O CAVERN TEST OF DO++ FOR 4 Hoves. While e and belief.
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Condition of Approval: notify OCD Hobbs office 24 hours Prior of running MIT Test & Chart Spud Date: 1-9-18 Rig Release Date: Thereby certify that the information above is true and complete to the best of my knowledge SIGNATURE Type or print name Type on print name Type or print name Type on print	e and belief. DATE 1-8-18 DATE DATE DATE DATE DATE DATE DATE

02/27/2018 TUE 15:36 FAX



816 West County Road Hobbs, NM 88240 Office – 575-393-8352 Fax – 575-393-8353

Feb. 27, 2018

To Mike Zbrocek

SALTY DOG BRINE

Jim Sayre

Patsy Hunt Billing clerk patsy@thestandardenergy.com

Standard Energy Services

Salty Dog Brine Station

Lea County, NM

Prod. Csg.: 5-1/2" liner (1999) to 1829'. 8-5/8" csg. surf-1877'.

Prod. Tbg.: 3000' (chem-cut bottom 3 DC's---EOT approx. 2910')

Bottom Salt: 2900' +/-

12/26/17 07:45 Arrive on location. SICP=400#. Open well to brine tanks to bleed pressure.

09:45 Met w/ Jim Sayers-Standard Supt. Discussed workover plan. Drove to Standard yard-Hobbs. Found 12 jts. additional 2-7/8" PH-6 production tbg.

Daily Cost:

Supervision: (1 x \$1000) \$1000

Daily Cost \$1,000

Cum Cost \$1,000

12/27-1/8 Continue to flow well down to bleed pressure.

Daily Cost: \$0

Total Cost \$1,000

1/9/18

10:30-11:30 MIRU Standard Energy Services well service rig.

11:30-13:30 MIRU Rotary Wireline for chemical cut on 2-7/8" prod. tbg. Open up well, casing flowing.

BHA: 2-1/8" jet cutter, 1' shock sub, 18" CCL, 7' wt. bar (1-7/16"), 1' rope socket

Zero at GL. RIH. Tagged up at 1036' (little sticky). Latch elevators and pull 20K into tbg., tagged at 1036'. Pulled 70K into tbg, tagged at 1036'. POOH LD 2-1/8" jet cutter. PU 1-7/8" jet cutter, RIH. No tag or weight loss at 1036'. Tagged up at 1870' (collars at 1863', 1832').

Note: Previous Rotary wireline report from before Christmas showed tag at 1900' with 1-9/16" perf gun.

Pulled 70K into tbg., tagged at 1891'. Slacked off to 35K (15K over string wt.). Made jet cut at 1888'. Tbg. started flowing. POOH RD Rotary Wireline. Pulled 70K into tbg., no part. Slack off. Pulled 35K into tbg., parted.

13:30-15:15	WO slip-type elevators. LD 8' tbg. sub & 2-7/8" EUE x PH-6 XO. Confirmed PH-6 box looking up. POOH standing back:
	16 stds. 2-7/8" PH-6
	XO (PH-6 box s 2-7/8" AOH pin)
	12 stds. 2-7/8" PH-6
	1 jt. 2-7/8" cutoff (28.00')
16:15-18:00	RBIH 1 std. tbg. & valve. SI well. Tally 15 stands PH-6. Spot drill collar trailer outside firewall to winch line in. Fuel rig.
18:00-19:45	PU 4-3/4" bit, bit sub & 3 x 3-1/2" DC's (Total BHA=93.26'). RIH w/ 6 stds PH-6. SI well due to firewall being full.
19:45-21:30	Continue to vacuum water inside firewall. Unload separate reverse pit from Hobbs.
21:30-22:00	Continue RIH w/ remaining 11 stds. PH-6. SI BOP. SI top tbg. valve.
22:00-22:30	RU reverse pit to pump. Release rig crew.

Daily Costs:

Supervision

•	
Pulling Unit: 8:00 am-12:00 am; 16 hrs.	\$4800
Reverse Pit delivery	\$1000
Reverse Pit rental	\$1000
Reverse Unit Swivel	\$N/C
Reverse Unit Pump	\$N/C
Reverse Unit Operator: (2 x \$900)	\$1800
Reverse Unit Operator Mileage: (2 x \$200)	\$400
Downhole tools- Purchase:	
Bit	\$500
Bit sub	\$1200
XO	\$1200
3 x 3-1/2" Drill Collars (\$900/ea)	\$2700
Rental Tools: Drill Collar Lift Subs	\$50

\$1800

	Workstring, 65 jts. 2-7/8" PH-6: \$6.00/ft * 2022.15'	\$12,133
	Tbg. delivery	\$1000
	Light Plant delivery	\$250
	Light plant rental	\$200
	Total Cost:	\$30,033
1	Cum Cost:	\$31,033

1/10/17

06:00-09:45 Firewall water levels pumped down. Rig crew and Yellowjacket fisherman arrived on location. WO forklift and pipe racks.

09:45-11:00 Break out firewall. Set piperacks. Move 65 jts. 2-7/8" 8.70 PH-6 yellow-band inspected pipe from Saguaro Petroleum inventory onto racks. Tally 65 jts. Push back up firewall. Spot vacuum truck.

11:00-12:50 PU 24 jts. 2-7/8" PH-6. RIH. Tagged up on jt. #25 20' in at 1896'. PU 1 jt. NU BIW stripper on top of BOP. PU swivel. RU floor.

12:50-16:40 Drill last 11' of jt. #25 tag joint to 1907'. 2K WOB. Jumping and torqueing on bottom, sticky on pick-ups.

16:40-05:45 Make connection. Drill f/ 1907'-1937'. Top 20' of Kelly drilled fairly quickly, bottom 10' much slower. While drilling at 1827' (slowest drilling), worked pipe to try to make hole. Lost 6' hole. Had to rotate ¼ turns to regain made hole.

05:45-6:00 Make connection. Drill f/ 1937'-1938'.

Supervision	\$1800
Pulling Unit: 06:00 1/10- 06:00 1/11, (24 hrs.)	\$7200
Reverse Pit rental	\$500
Reverse Unit Swivel	\$3000
Reverse Unit Pump	\$2600
Reverse Unit Operator: (2 x \$900)	\$1800
Reverse Unit Mileage: (2 x \$200)	\$400
Rental Tools: BIW stripper, BOP	\$300

Light plant rental	\$200
Pipe rack delivery	\$500
Pipe rack rental	\$100
Backhoe	\$320
Total Cost:	\$18,630
Cum Cost:	\$49,663

1/11/17

06:00-10:50 Cont. Drlg. 1938'-1964.

10:50-17:20 Make connection. Drill f/ 1964'-2000'.

Str. Wt.=15k, PU Wt.=16K-17K, Slackoff Wt.=11K-12K.

17:20-06:00

Make connection, (Jt. #29). Drill f/ 2000'-2417' (Jt. #42 half-way down), made 417' in 24 hrs. Drilling improved on Jts. #30-#36. Jts. #37-#38 slid in hole with rotation. Jt. #39 drilled much slower than previous jts., bottom of Jt. #39 drilled with a lot of torque until last 3'-free fall. Flow from well has decreased significantly and went to zero for a short time before regaining.

Supervision	\$1800
Pulling Unit: 06:00 1/11- 06:00 1/12, (24 hrs.)	\$7200
Reverse Pit rental	\$0
Reverse Unit Swivel	\$3000
Reverse Unit Pump	\$2600
Reverse Unit Operator: (2 x \$900)	\$1800
Reverse Unit Mileage: (2 x \$200)	\$400
Rental Tools: BIW stripper, BOP	\$300
Light plant rental	\$170
Trash Trailer/Porta-Potty	\$195
Trash Trailer Delivery	\$200

		Pipe rack ren	tal		\$100
	Total	Cost:			\$17,765
	Cum :	Cost:			\$67,428
1/12/17					
	06;00-06:35	2 points on bi	,	ahead with full	43 stalled out swivel w/ only returns. Attempt to work p success.
	06:35-07:00	PUH 50' to 24	14' and regaine	d rotation with	some torque.
	07:00-09:50				points on bit, gained all ack to original TD with full
	09:50-11:00	Continue slidi	ng in hole w/ fu	Il circulation to	2810' (Jt. #54).
		Hanging wt=	15K Slack	off wt= 11K	-13K
	11:00-13:00	1-1/4" sinker	bar, 1-9/16" spa	ng jars, and lift	o run. PU 1-3/4" mandrel sub (22' BHA). RIH & tag GIH and no gained wt.
	13:00-14:45	WO Phoenix T	echnology Servi	ces for inclinat	ion/azimuth survey.
	14:45-17:45		// 1′3/4″ OD x 1 from workstring		urvey tool. Tagged up at
		<u>Depth</u>	Inclination	<u>Azimuth</u>	<u>DLS</u>
		1800′	1.61°	267°	0
		1900′	1.75°	62°	3.2
		2000′	2.69°	251°	4.4
		2100	5.7°	323°	5.7
			•		tralizer subs on top and it same 2120'. POOH. RD
	17:45-18:15	Make up new	swabbing assem	ibly.	
	18:15-21:00	RU floor and L	D 12 stds. of ori	ginal 2-7/8" AC)H prod. tbg.
	21:00-23:00	RU for swab fo	or brine quality t	est at current 2	2810' SLM TD.

2-7/8" swab cups would not fit in 8.70# pipe. PU 2-3/8" cups. 1st Run dry. 2nd run fluid sample from end of swab run weighed 9.9# but had lots of iron from swab line and contaminated the sample and didn't appear to have sufficient chlorides. Parted sandline on 3rd run at approx. 1500'. Secure tbg. end of sandline to blocks. Left tbg. open. Shut in csg. SDON.

Daily Costs:

Supervision	\$1800
Pulling Unit: 06:00 1/12-24:00 1/12, (18 hrs.)	\$5400
Reverse Pit rental	\$0
Reverse Unit Swivel	\$3000
Reverse Unit Pump	\$2600
Reverse Unit Operator: (2 x \$900)	\$1800
Reverse Unit Mileage: (2 x \$200)	\$400
Rental Tools: BIW stripper, BOP	\$300
Light plant rental	\$170
Trash Trailer/Porta-Potty	\$65
Pipe rack rental	\$100
Total Cost:	\$15,635
Cum Cost:	\$83,063

1/13/17

06:00-11:00	Daylight crew arrived on location. WO daylight. Pull sandline out of 2-7/8" tbg. Pull 3500'+ sandline off of drum—no good. Can't get cable spooler until Monday. Decided to move ahead with replacing Larkin tbg. head.
11:00-11:30	Break for lunch.
11:30-13:30	Prepare floor and RU to run 5-1/2" pkr. into top joint of 5-1/2" csg. to isolate flow to be able to cut off old 5-1/2" Larkin 2K tbg. head and weld on new bell nipple and tbg. head. Strip BOP & tbg. slips over top jt. tbg.
13:30-17:15	PU 32-A tension pkr. on new jt. 2-7/8" PH-6. Screw into top jt. of PH-6 workstring. RIH 15' & set pkr. Stopped flow from csg. Terry Abernathy-Welder arrived on location. Clean/grind areas around bottom of tubing head. Discovered that female wellhead was not made up on to top of 5-1/2" bell

nipple pin but straight onto 5-1/2" csg. pin looking up and not welded up. Backed off existing Larkin 2K female tbg. head. Cleaned threads. Found that top 1-2 threads were corroded on 5-1/2" csg. pin. Screw on new WSI 2K female Larkin head onto Teflon and thread sealant 5-1/2" csg. pin. Screw on adapter flange onto bowl of tbg. head. NU BOP. Release 32-A pkr. POOH LD pkr. & XO's. SI pipe rams. Stab tbg. valve and close. Clean up tools.

Shut down until Monday afternoon to spool new sandline onto drum.

Daily Costs:

Supervision	\$1200
Pulling Unit: 06:00 - 17:15 (11-1/4 hrs)	\$3375
Reverse Pit rental	\$0
Reverse Unit Swivel	\$0
Reverse Unit Pump	\$
Reverse Unit Operator: (1 x \$900)	\$900
Reverse Unit Mileage: (2 x \$200)	\$0
Rental Tools: BIW stripper, BOP	\$300
Light plant rental	\$170
Trash Trailer/Porta-Potty	\$65
Pipe rack rental	\$100
Welder	\$500
Tbg. Head: 5-1/2" x 2-7/8"	\$900
Rental Pkr. & XO's	\$800
Packer Man & Mileage	\$1000
Wireline: Tbg. Cut (Service Charge)	\$1000
Total Cost:	\$10,310
Cum Cost:	\$93,373

1/14/17 Day off.

1/15/17

12:00-14:00 Horizon re-spooled 8000' sandline onto drum.

14:00-16:00 Made 8 swab runs approximately of approx. 9.9# brine, black water. SDON.

Daily Costs:

Supervision	\$0
Pulling Unit: 12:00 – 19:00, (7 hrs)	\$2100
Reverse Pit rental	\$0
Reverse Unit Swivel (released on 1/14)	\$0
Reverse Unit Pump (released on 1/14)	\$0
Reverse Unit Operator: (released on 1/14)	\$0
Reverse Unit Mileage:	\$0
Rental Tools: BIW stripper, BOP	\$100
Light plant rental	\$170
Trash Trailer/Porta-Potty	\$65
Pipe rack rental	\$100
Total Cost:	\$2,535
Cum Cost:	\$95,908

1/16/17

07:30	Arrived on location.
07:30-13:15	Made 18 swab runs. Water still black until 10 th run and started clearing up. ChemTech chemical man said that black coloration was not iron or biologicals. Water clarifier clear up sample and dropped out very fine tan-colored sand. Last 4 run samples weighed 10.15#.
13:15-13:30	Call into and decision from Peter to proceed ahead with shooting off pipe to complete well.
13:45-15:15	MIRU Rotary Wireline. PU 2-1/16" tbg. cutter. RIH to cut off collars at approx 2720'. Tagged up at 2145'. Worked to 2180' with no further progress. POOH. LD 2-1/16" cutter and PU 1-7/8" cutter. RIH. Tagged up at 2175'.
15:15-16:15	WO hot oiler to help pump cutter further down.

16:15-16:30	RU hot oiler. Pressure up to 500# on tbg. No further additional hole made on 1-7/8" tbg. cutter. POOH w/ cutter. RD hot oiler and release. Decided to skip cutting tubing and attempt to perforate tbg.
16:30-17:00	PU 1-9/16" OD x 3', (4spf, 8 holes) tbg. perforating gun. RIH. Tagged up at 2135'. POOH.

17:00-17:30 Remove wireline sheave from rig blocks and hand from derrick. PU 1-7/16" rope socket and CCL (2' 2" overall BHA). RIH. Tagged up at 2138'. Latched elevators on tbg. & PU 10'. Worked wireline tools to 2136' (made 8' hole). PU additional 10'. Worked wireline tools to 2141' (made 15' hole). Pulled full joint into derrick. Worked wireline tools to 2140'. POOH.

17:30-19:30 POOH standing back 2 stands 2-7/8" tbg. RU wireline. RIH w/ same wireline BHA. Tagged up at 2140' (WLM).

*proves that joint of tbg. 2 stds. Up was not crimped

POOH RD Rotary Wireline. Released rig crew. SDON.

	Supervision	\$1200
	Pulling Unit: 07:30 - 19:30, (12 hrs)	\$3600
	Reverse Pit rental	\$0
	Reverse Unit Swivel (released on 1/14)	\$0
	Reverse Unit Pump (released on 1/14)	\$0
	Reverse Unit Operator: (released on 1/14)	\$0
	Reverse Unit Mileage:	\$0
	Rental Tools: BIW stripper, BOP	\$100
	Light plant rental	\$170
	Trash Trailer/Porta-Potty	\$65
	Pipe rack rental	\$100
	Wireline: Tbg. cut / perforate attempt	\$6,200
Total 0	Cost:	\$11,520
Cum C	ost:	\$107,428

^{*}proves that there is no obstruction (junk) inside tbg.

1/17/18

07:30-09:30	Crew arrived on location. POOH standing back 15 stds. (16 stds out total) PH-6 YB. Shut down to catch up on water flow.
09:30-10:15	Haul off water in reserve pit.
10:15-10:45	POOH standing back 27 stds (54 jts. that were PU) PH-6 YB, 1 std. old PH-6 (28 stds. total).
10:45-16:00	POOH LD old PH-6 in singles.
	Note: 18 jts. of 32 jts. total of old PH-6 prod. tbg. found bent or corkscrewed.
	Stand back 1 std DC's. Pull to 4-3/4" bit. Bit in good shape.
16:00-19:30	RBIH w/ DC's. Tally & PU 26 jts. original 2-7/8" AOH. PU AOH x PH-6 XO. RIH w/ 16 stds. of PH-6 YB tbg.
19:30-22:00	POOH LD 12 stds PH-6 YB tbg. in singles. RIH w/ 12 stds. remaining new PH-6 YB tbg. in derrick. Tagged up w/ 15' out on last stand (12 stds. RIH were longer than 12 stds. of singles LD). LD 1 jt.
	Rig crew soaked and no change of dry clothes. 20°F overnight.
	Stab tbg. valve on tbg. SI pipe rams. SDON. Release rig crew.

Supervision	\$1800
Pulling Unit: 06:00, 17th – 22:00 (17 hrs)	\$4800
Reverse Pit rental	\$0
Reverse Unit Swivel (released on 1/14, start 1/17)	\$3000
Reverse Unit Pump (released on 1/14, start 1/17)	\$2500
Reverse Unit Pump Delivery	\$1,000
Reverse Unit Operator: (released on 1/14, start 1/17)	\$1800
Reverse Unit Mileage: (2 x \$200)	\$400
Rental Tools: BIW stripper, BOP	\$100
Light plant rental	\$170
Trash Trailer/Porta-Potty	\$65
Pipe rack rental	\$100
Total Cost:	

Cum Cost: \$123,163

1/18/18

06:00 -09:30	Crew arrived on location. PU power swivel. RU floor to start drilling. Tagged 15' in on jt. #58 (1894'). Previous tag was 1926'.
09:30-11:45	Jt. #58 down (1910'). PU jt. #59. Rotate slowly down w/ 500# torque, 2 pts.
11:45-11:55	Jt. #59 down (1941'). PU jt. #60. Rotate slowly down w/ 500# torque, 2 pts.
11:55-12:20	It. #60 down (1972'). PU back to top of jt. due to torqueing at bottom. Slid/rotated back down.
12:20-12:40	Jt. #61 down (2003'). PU jt. #62. Rotate slowly down w/ 500# torque, 2 pts.
12:40-12:50	Jt. #62 down (2034). PU jt. #63. Rotate slowly down w/500# torque, 2 pts.
12:50-17:05	Jt. #63 down (2066'). PU jt. #64. Rotate slowly down w/ 500# torque, 2 pts.
17:05-18:35	Jt. #64 down (2097)'. PU jt. #65. Rotate slowly down w/ 500# torque, 2 pts.
	Note: No night crew available, daylight crew staying over.
18:35-19:05	Jt. #65 down (2128'). PU jt. #66. Rotate slowly down w/ 500# torque, 2 pts.
19:05-19:30	Jt. #66 down (2159'). PU jt. #67. Rotate slowly down w/ 500# torque, 2 pts.
19:30-19:45	Jt. #67 down (2190'). PU jt. #68. Rotate slowly down w/ 500# torque, 2 pts.
19:45-21:10	Jt. #68 down (2221') PU jt. #69. Rotate slowly down w/ 500# torque, 2 pts.
21:10-22:00	Made a few feet w/ jt. #69. Pull jt. out of hole, break out. St pipe rams. Stab tbg. valve. SDON.

Supervision	\$1800
Pulling Unit: 06:00, 17th – 22:00 (16 hrs)	\$4800
Reverse Pit rental	\$0
Reverse Unit Swivel	\$3000
Reverse Unit Pump: (2 x \$700)	\$1400
Reverse Unit Operator: (2 x \$900)	\$1800
Reverse Unit Mileage: (2 x \$200)	\$400
Rental Tools: BIW stripper, BOP	\$100
Light plant rental	\$170

1/19/18

	Slip-type elevators	\$740
	Trash Trailer/Porta-Potty	\$65
	Pipe rack rental	\$100
	Roustabouts: (pick up bent pipe)	\$400
	Total Cost:	\$14,775
	Cum Cost:	\$137,938
18		
07:00 -09:10	Make up jt. #69. Reconnect pump hoses. Tag 2' in on jt. torque.	Drlg. w/ 2-3 pts., 700#
09:10-10:10	Jt. #69 down (2252'). PU jt. #70. Top 15' drilled slow to 2	237', then took off.
10:10-10:25	Jt. #70 down (2283'). PU jt. #71.	
10:25-16:00	Jt. #71 down (2314'). PU jt. #72. Drlg. w/ 2-3 pts., 400#-6	500# torque.
16:00-16:05	Jt. #72 down (2346'). PU jt. #73. Slide/rotate jt. #73 dow	n.
16:05-16:15	Jt. #73 down (2377'). PU jt. #74. Slide/rotate jt. #74 dow	n.
16:15-16:25	Jt. #74 down (2408'). PU jt. #75. Slide/rotate jt. #75 down	١.
16:25-16:30	Jt. #75 down (2439'). PU jt. #76. Slide/rotate jt. #76 dow	n.
16:30-18:45	Jt. #76 down (2470'). PU jt. #77. Slid jt. 20' in, then drlg.	w/ 600# torque.
18:45-20:15	Jt. #77 down (2501'). PU jt. #78. Slid top 15' of jt. in. Drlg	g. ahead.
20:15-20:50	Jt. #78 down (2532'). PU jt. #79. Drill/rotate down w/ 50	0# torque, 2 pts.
20:50-04:00	Jt. # 79 down (2563'). PU Jt. #80. Drill Jts. #80-#86 (2781' torque. Str. wt.=22K. Intermittent ledges, slackoffs up to	
04:00-04:30	PU Jt. #87. Drill 1 st 10' in at 450#-600# torque, torque inc	reased to 600#-1100#.
04:30-05:10	PU off bottom, did not lose torque. Break out and LD Jt. # dragging 6K over. Start rotation. Torque=500#-800#. Stoback to floor taking 4 pts. coming back down. Decision to at satisfactory depth.	p rotation. Slid 10'
	Crew change at 05:00.	
05:10-05:45	RU for swab for brine test.	
05:45-06:00	RIH for 1 st swab run.	

Daily Costs:

Supervision	\$1800
Pulling Unit: 06:00, 17th – 06:00, 18th (24 hrs)	\$7200
Reverse Pit rental	\$0
Reverse Unit Swivel	\$3000
Reverse Unit Pump: (2 x \$700)	\$1400
Reverse Unit Operator: (2 x \$900)	\$1800
Reverse Unit Mileage: (2 x \$200)	\$400
Rental Tools: BIW stripper, BOP	\$100
Light plant rental	\$170
Slip-type elevators	\$90
Trash Trailer/Porta-Potty	\$65
Pipe rack rental	\$100
Total Cost:	\$16,125
Cum Cost:	\$154, 063

1/20/17

06:00-09:00	Make 7 total swab runs. Runs #4, #5,#6=10.1 ppg brine, rusty. Run #7 dry run. Run #8 made dry run to bottom with only 1-3/4" swab mandrel hanger on weight bar. RIH measuring raps. Calculated TD=2670' to top of DC's.
09:00-10:30	Rotary Wireline arrived on location. RD swab. RU wireline. PU 1-7/8" tbg. cutter. RIH. Tagged up at 2615'. Cut tbg. @ 2610'. POOH. PU 2' \times 1-9/16" tbg. gun (8 holes w/ 0.2" hole diameter). RIH. Tagged up at 2615'. Collar @ 2595'. PU to 2590' & shoot 8 holes at 2590'-2592'. POOH RD wireline.
10:30-12:00	RD floor. Land tbg. in 2-7/8" x 5-1/2" Larkin tbg. head. Release rental equipment. Clean up location.

END OF REPORT

Appendix E

Mechanical Integrity Test Record



FEB 26 2018 PHOS:16

American Valve & Meter, Inc.

1113 W. BROADWAY

P.O. BOX 166 HOBBS, NM 88240

To:Rental

DATE:01/31/18

This is to certify that:

I, RLLarmon, Technician for American Valve & Meter Inc. has checked the calibration of the following instrument. These points

12 "_Pressure recorder

Ser#15698

Pressure #		* Pressure #			
Test	Found	Left	Test	Found	Left
- 0	-	- 0		-	-
- 500	- S	- 500	-	-	-
- 700	- A	- 700	-	-	-
- 1000	- M	- 1000	-	-	-
- 200	- E	- 200	-	-	-
- 0	-	- 0	-	_	-

Remarks:_____

Signature:

Chavez, Carl J, EMNRD

From: McVey, Mike <mmcvey@geo-logic.com>
Sent: Wednesday, April 4, 2018 12:08 PM

To: Chavez, Carl J, EMNRD

Cc:pieter@bergsteinenterprises.com; susan@bergsteinenterprises.com; Ayarbe, JohnSubject:2nd Semiannual GWM and O&M report - Salty Dog Brine Station, Hobbs, NM

Attachments: Salty Dog Second 2017 Semiannual Rpt_3-30-2018.pdf

Carl,

Attached is the second semiannual (July 1 through December 31, 2017) groundwater monitoring and O&M report for the Salty Dog brine station. Please give me or John a call at (505) 822-9400 if you have any questions.

Thanks,

Michael D. McVey, P.G.

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

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Mr. Carl Chavez New Mexico Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505-4225

Re: Semiannual Groundwater Monitoring and O&M Report, July 1 through December 31, 2017,

Salty Dog Brine Station, Lea County, New Mexico

Dear Mr. Chavez:

On behalf of PAB Services, Inc., Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to submit the enclosed groundwater monitoring and operation and maintenance (O&M) report for the Salty Dog brine station located in Lea County, New Mexico. Groundwater monitoring and O&M activities were completed at the site on December 19 and 20, 2017.

Please call us at (505) 822-9400 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

John Ayarbe, P.G.

Senior Hydrogeologist

Michael D. McVey, P.G. Senior Hydrogeologist

JA/MDM/rpf Enclosure

cc: Pieter Bergstein, PAB Services, Inc.

Jim Sayre, Salty Dog, Inc.

Semiannual Groundwater Monitoring and O&M Report

July 1 through December 31, 2017
Salty Dog Brine Station
Lea County, New Mexico

Prepared for

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

March 30, 2018



Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109



Daniel B. Stephens & Associates, Inc.

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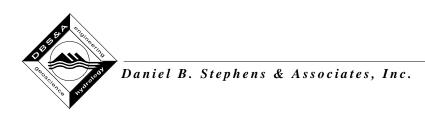
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Semiannual Groundwater Monitoring and O&M Report July 1 through December 31, 2017 Salty Dog Brine Station, Lea County, New Mexico

1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this groundwater monitoring and operation and maintenance (O&M) report for submission to the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (OCD) Environmental Bureau on behalf of PAB Services, Inc. (PAB) for the Salty Dog brine station (the site) located in Lea County, New Mexico (Figure 1). The report summarizes activities conducted at the site during the reporting period of July 1 through December 31, 2017. Semiannual groundwater monitoring was conducted on December 19 and 20, 2017.

The site consists of a northern portion, where the brine pond was located prior to closure in October 2008, and a southern portion, where the brine well is located. The brine pond area and the brine well area are separated by approximately 2,500 feet, joined by a dirt road (Figure 1). Injection water for the brine well comes from two fresh water supply wells (FWS-1 and FWS-2) and from remedial pumping at recovery wells in both the former brine pond area (RW-1) and brine well area (RW-2), although groundwater production at RW-1 is limited due to pumping from FWS-1.

Brine that is produced for sale is stored at a tank battery on the southern boundary of the former brine pond area. The tank battery consists of six 750-barrel aboveground storage tanks (ASTs) surrounded by a berm (Figure 1). A concrete truck loading pad with two brine filling stations is located north of the tank battery. An operations shed is located adjacent to the loading pad to the west.

Six monitor wells (PMW-1, DBS-1R, and DBS-2 through DBS-5), one nested well (NW-1), one fresh water supply well (FWS-1), and one recovery well (RW-1) are located in the former brine pond area. Nine monitor wells (MW-2 through MW-6, DBS-6 through DBS-9), one nested well



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(NW-2), one fresh water supply well (FWS-2), and one recovery well (RW-2) are located in the brine well area (Figure 1).

DBS&A installed groundwater extraction systems at the site in early April 2012 to provide hydraulic containment and removal of chloride-impacted groundwater in the former brine pond and brine well areas. The extraction systems consist of submersible pumps, conveyance lines, electrical power, and controls to extract impacted groundwater from the recovery wells. Extracted groundwater is conveyed to the on-site ASTs for reinjection at the brine well. Although groundwater extraction at RW-1 is limited due to pumping from FWS-1, pumping at FWS-1 provides hydraulic containment and removal of chloride-impacted groundwater in the former brine pond area. Pumping at RW-2 provides hydraulic containment and removal of chloride-impacted groundwater in the brine well area.

2. Scope of Work

The scope of work for groundwater monitoring consisted of (1) measuring fluid levels in and collecting groundwater samples from 11 monitor wells, and (2) performing maintenance on the groundwater extraction systems, as necessary. Groundwater samples were submitted to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for chloride analysis using U.S. Environmental Protection Agency (EPA) method 300.0. The monitor wells included in the sampling were selected in consultation with Jim Griswold on October 4, 2010; Mr. Griswold was the OCD Project Manager for the site at that time. The selected monitor wells are shown in Figures 2 through 5.

3. Monitoring Activities

3.1 Fluid Level Measurement

On December 19, 2017, DBS&A measured water levels in monitor wells DBS-1R, DBS-2 through DBS-5, and PMW-1 in the former brine pond area (Figure 2) and DBS-6, DBS-8, DBS-9, MW-3, and MW-5 in the brine well area (Figure 3) using a properly decontaminated



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electronic water level meter. Table 1 reports water level measurements and groundwater elevations.

During this monitoring event, the average depths to water beneath the former brine pond area and brine well area were 69.00 feet below ground surface (bgs) and 63.84 feet bgs, respectively. On average, water levels in the former brine pond area increased by approximately 0.81 foot since the last monitoring event in June 2017, while water levels in the brine well area declined by 0.57 foot.

Figures 2 and 3 present potentiometric surface maps for the former brine pond area and the brine well area, respectively. The direction of groundwater flow beneath the former brine pond area remains to the southeast at a gradient of approximately 0.005 foot per foot (ft/ft) (Figure 2), decreasing from 0.009 ft/ft during the previous monitoring event. The direction of groundwater flow beneath the brine well area remains to the southeast at a gradient of approximately 0.005 ft/ft (Figure 3), increasing from 0.004 ft/ft during the previous monitoring event. A cone of depression was not observed during the December 2017 monitoring event because pumping from FWS-1 was temporarily stopped while repairs were made to the brine production well. Pumping from FWS-1 was resumed in February 2018.

3.2 Groundwater Sampling

On December 19 and 20, 2017, groundwater samples were collected from monitor wells DBS-1R, DBS-2 through DBS-6, DBS-8, DBS-9, MW-3, MW-5, and PMW-1 following standard sampling procedures developed from EPA guidance. Before sampling, each well was purged of a minimum of three casing volumes using a submersible pump so that a representative groundwater sample was collected. While purging, DBS&A measured water quality field parameters consisting of temperature, specific conductance, and pH. Samples were collected once three casing volumes were purged. Sample containers were then filled, labeled, and placed in an ice-filled cooler. Groundwater samples were submitted under chain of custody to HEAL for chloride analysis.



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Samples of the brine well injection water and the produced brine were also collected to meet requirements under discharge permit BW-8. Injection water was sampled during the December 2017 monitoring event; however, during this event, the brine well was inoperable, precluding the collection of a brine sample. PAB resumed brine well production in February 2018 and collected a brine sample on February 15, 2018. Analytical results of these samples will be presented in the 2017 Annual Class III Well Report.

4. Analytical Results

Table 2 summarizes chloride analytical results for the 11 groundwater samples. Figures 4 and 5 show the distribution of chloride in groundwater beneath the former brine pond area and the brine well area, respectively. The laboratory report and chain of custody documentation are provided in Appendix A. Field notes recorded during groundwater monitoring activities are provided in Appendix B.

4.1 Former Brine Pond Area Wells

Since the last monitoring event in June 2017, minor to no changes in chloride concentrations were observed at monitor wells DBS-2 through DBS-5 (Table 2). Well PMW-1 continues to exhibit chloride concentrations above the New Mexico Water Quality Control Commission (NMWQCC) standard of 250 milligrams per liter (mg/L) (Figure 4). The chloride concentration at well DBS-1R, located downgradient of well PMW-1, decreased from 320 mg/L to 190 mg/L, which is below the NMWQCC standard for chloride.

The chloride plume in the former brine pond area remains bounded by the existing monitor well network (Figure 4). The chloride concentration at downgradient monitor well DBS-4 remains below the NMWQCC standard, as do chloride concentrations at the two cross-gradient monitor wells, DBS-2 and DBS-3. During this reporting period, the chloride concentration at well DBS-1R was also below the NMWQCC standard for the first time since sampling at the well began in May 2012.



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4.2 Brine Well Area Wells

Since the last monitoring event in June 2017, minor changes in chloride concentrations were observed at most of the monitor wells in the brine well area (Table 2). Monitor wells MW-3 (the well closest to extraction well RW-2) and MW-5 (the farthest downgradient well) continue to exhibit chloride concentrations above the NMWQCC standard (Figure 5). The chloride concentration at MW-3 decreased from 10,000 mg/L to 8,300 mg/L. The chloride concentration at MW-5 decreased slightly from 870 mg/L to 850 mg/L. The chloride concentration at monitor well DBS-6, which had exceeded the NMWQCC standard until the last monitoring event, continued to decline, decreasing from 240 mg/L to 200 mg/L.

During previous monitoring events, monitor well DBS-9 (an upgradient monitor well) has exhibited chloride concentrations above the NMWQCC standard. During this reporting period, the chloride concentration at DBS-9 was 230 mg/L, below the NMWQCC standard (Table 2). DBS-9 was installed in the playa located northeast of the brine well to help characterize groundwater impacts from documented releases in 2002 and 2005.

5. Groundwater Extraction System O&M

Remedial groundwater extraction in the former brine pond and brine well areas began in April 2012 by pumping from recovery wells RW-1 and RW-2. Groundwater extraction rates at RW-1 and RW-2 are reported in Table 3.

Production from the fresh water supply well (FWS-1) also supports hydraulic containment and removal of chloride-impacted groundwater in the former brine pond area. Groundwater extraction rates at FWS-1 are also reported in Table 3.

5.1 Former Brine Pond Area

Pumping from the nearby fresh water supply well (FWS-1) prevents RW-1 from being used as an extraction well because FWS-1 lowers groundwater levels in the former brine pond area when it is operating. PAB attempted to set the pump at RW-1 to a deeper depth in the well so



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that pumping from RW-1 could continue, but the pump is already set near the bottom of the well. Although pumping from RW-1 has ceased, pumping at FWS-1 provides containment of the chloride plume in the former brine pond area. The average pumping rate at FWS-1 from June 2017 to December 2017 was approximately 37.3 gallons per minute (gpm).

Well FWS-1 was not pumping at the time water level measurements were recorded, so a cone of depression was not observed in the vicinity of FWS-1 during the December 2017 monitoring event (Figure 2). Pumping from FWS-1 was temporarily stopped while repairs were made to the brine production well. Brine production resumed in February 2018.

Monitor well PMW-1 was the only well to exhibit a chloride concentration above the NMWQCC standard in the former brine pond area during this reporting period (Figure 4). Pumping of the fresh water supply well is preventing the downgradient migration of the chloride groundwater plume. The chloride concentration at well DBS-1R, located downgradient of well PMW-1, was below the NMWQCC standard this reporting period for the first time since sampling at the well began (Figure 4), and the chloride concentration at downgradient monitor well DBS-4 remains well below the NMWQCC standard (Table 2).

5.2 Brine Well Area

During the previous monitoring event, DBS&A discovered that the wires leading to the totalizer flow meter at well RW-2 had been damaged by cattle. PAB replaced the totalizer flow meter in November 2017. The estimated average pumping rate at RW-2 from June 2017 to December 2017 was approximately 12.4 gpm (Table 3). This estimate is based on PAB fresh water injection volumes.

A cone of depression was not observed in the vicinity of RW-2 during the December 2017 monitoring event (Figure 3) because pumping from RW-2 was stopped at the time water level measurements were recorded. Pumping of RW-2 was temporarily stopped while repairs were made to the brine production well. Brine production resumed in February 2018.



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The chloride plume remains undefined downgradient and cross-gradient to the north of the recovery well (RW-2) (Figure 5); however, water quality conditions have improved at both the nearest downgradient well (MW-5) and the nearest cross-gradient well (DBS-6). Since April 2009, chloride concentrations at the northernmost cross-gradient well (DBS-6) have declined, decreasing from a high of 410 mg/L in May 2011 to 200 mg/L during this reporting period. Since February 2008, chloride concentrations in the downgradient well (MW-5) have also declined, decreasing from a high of 1,500 mg/L during monitoring events in 2011 and 2012 to 850 mg/L this reporting period (Table 2).

5.3 Facility and System Maintenance

During the previous monitoring event, the totalizer flow meter at RW-2 had been damaged by cattle. PAB replaced the meter in November 2017 and installed fencing around the perimeter of the well to protect the wellhead and the new meter from future damage.

In the week preceding the December 2017 monitoring event, the brine production well was damaged due to anhydrite collapsing on the well's tubing (Sayre, 2017). PAB had the tubing replaced, and the well was operating again in February 2018. Before the well was operated again, PAB had a mechanical integrity test (MIT) conducted on the well; it passed the test. Gary Robinson of OCD was present during the MIT.

5.4 Future Extraction System Operation

Pumping of the fresh water supply well (FWS-1) has lowered groundwater levels at RW-1, precluding groundwater extraction at this well. Pumping of FWS-1 provides hydraulic containment and removal of the chloride plume in the former brine pond area, as evidenced by the chloride concentration at downgradient monitor well DBS-4 remaining well below the NMWQCC standard. Future monitoring data will be used to evaluate the effectiveness of FWS-1 in providing hydraulic containment and removal of chloride-impacted groundwater in the former brine pond area.



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Pumping of extraction well RW-2 will continue. Pumping of RW-2 provides hydraulic containment and removal of the chloride plume in the brine well area, as evidenced by improved water quality conditions at downgradient monitor well MW-5 and cross-gradient monitor well DBS-6. DBS&A will work with PAB in 2018 to develop a plan for more consistent pumping from RW-2.

6. Recommendations

Based on the current groundwater monitoring results and site O&M activities, DBS&A has the following recommendations:

- Continue groundwater extraction at FWS-1 to provide hydraulic containment and removal of the chloride plume in the former brine pond area.
- Work with PAB to improve pumping from RW-2.

In addition, DBS&A and PAB will complete the following activities at the site in 2018 to meet OCD requests and the requirements of DP BW-8:

- Continue to conduct semiannual groundwater monitoring and O&M of the extraction systems at the site.
- Install one new downgradient monitor well approximately 300 feet southeast of MW-5 in the brine well area to determine the downgradient extent of chloride-impacted groundwater.
- Install survey monuments and establish a program to monitor for potential surface subsidence. Five survey monuments will be installed near the brine well. Four monuments will be installed in a 200-foot radius around the brine well, and a fifth monument will be fixed to the wellhead of the brine well. A baseline survey will be conducted after installation of the new monitor well and five survey monuments to establish elevations and x-y coordinates relative to state plane coordinates. The



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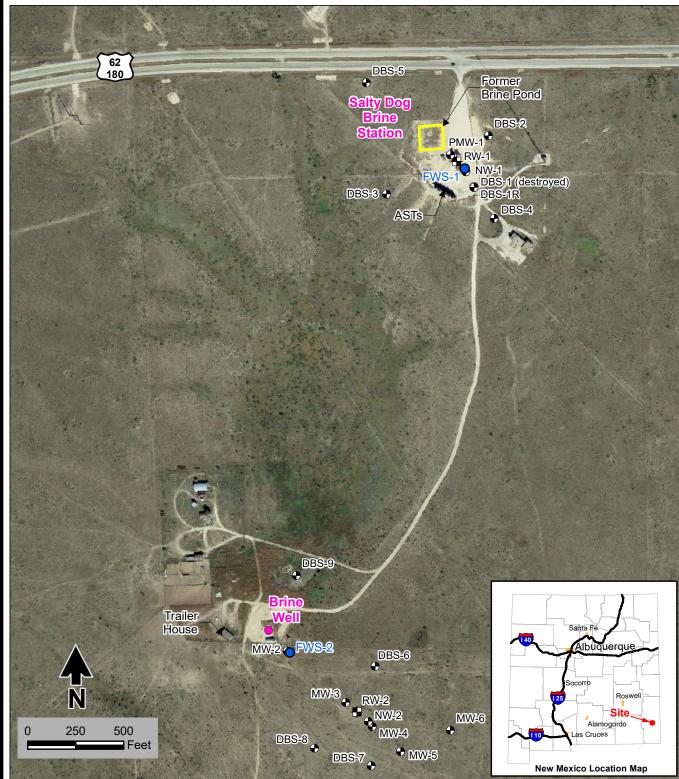
monuments will then be surveyed in conjunction with semiannual groundwater monitoring to monitor for potential subsidence.

Prepare a 2017 Annual Class III Well report for submittal to OCD.

Reference

Sayre, J. 2017. Personal communication between Jim Sayre, PAB Services, Inc., and Daniel B. Stephens & Associates, Inc. December 2017.

Figures



Explanation

Note: AST = Aboveground storage tank

Source: Google Earth aerial imagery dated November 2, 2017

- Fresh water supply well
- Monitor well
- Recovery well
- Well destroyed

SALTY DOG BRINE STATION
Site Location Map

3751.12 Groundwater elevation, ft msl

Monitor well Potentiometric surface elevation contour (ft msl),

Recovery well Fresh water supply well Groundwater flow direction

dashed where inferred

SALTY DOG BRINE STATION

Former Brine Pond Area Potentiometric Surface Elevations December 2017

Source: Google Earth aerial imagery dated November 2, 2017

SALTY DOG BRINE STATION

Playa Lake and Brine Well Area **Potentiometric Surface Elevations** December 2017

PROJECTS/ES08.0118.01_SALTY_DOG_INC/GIS/MXDS/REPORT\2017_4Q\FIG03_GWE_201712_BRINE_WELL.MXD

DBS-5 Well designation

Chloride concentration (mg/L) 170

Monitor well

Recovery well

Red indicates concentration equal to or greater than the NMWQCC standard.

SALTY DOG BRINE STATION

Former Brine Pond Area Chloride Concentrations in Groundwater December 2017



Daniel B. Stephens & Associates, Inc. JN ES08.0118.06

Source: Google Earth aerial imagery dated November 2, 2017

DBS-8 Well designation

- Chloride concentration (mg/L)
- Monitor well
- Recovery well

Red indicates concentration equal to or greater than the NMWQCC standard.

SALTY DOG BRINE STATION

Playa Lake and Brine Well Area **Chloride Concentrations in Groundwater** December 2017

Daniel B. Stephens & Associates, Inc. JN ES08.0118.06

Tables

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 1 of 8

Monitor Well	Screen Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
DBS-1	56.0-76.0	3,817.09	4/08/2009	62.38	3,754.71
			5/11/2011	64.70	3,752.39
			10/04/2011	Well	destroyed
DBS-1R	58.0-78.0	3,817.00 b	4/30/2012	63.60	3,753.40
			9/10/2012	65.65	3,751.35
			6/23/2013	64.40	3,752.60
			1/09/2014	67.23	3,749.77
			4/07/2014	66.36	3,750.64
			3/20/2015	67.17	3,749.83
			7/01/2015	67.92	3,749.08
			9/29/2015	67.07	3,749.93
			12/16/2015	67.54	3,749.46
			3/22/2016	66.61	3,750.39
			6/08/2016	66.23	3,750.77
			9/13/2016	67.43	3,749.57
			12/01/2016	67.31	3,749.69
			6/20/2017	69.60	3,747.40
			12/19/2017	67.80	3,749.20
DBS-2	58.0-78.0	3,820.50	4/08/2009	65.45	3,755.05
			5/11/2011	66.80	3,753.70
			10/04/2011	65.87	3,754.63
			2/08/2012	65.96	3,754.54
			4/30/2012	66.26	3,754.24
			9/10/2012	67.45	3,753.05
			6/23/2013	67.03	3,753.47
			1/09/2014	69.08	3,751.42
			4/07/2014	68.67	3,751.83
			3/20/2015	69.32	3,751.18
			6/30/2015	69.29	3,751.21
			9/29/2015	69.41	3,751.09
			12/16/2015	69.71	3,750.79
			3/22/2016	69.13	3,751.37

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009. ^b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

ft bgs = Feet below ground surface ft btoc = Feet below top of casing

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 2 of 8

	Screen	Top of Casing	5.	Depth to	Groundwater
Monitor Well	Interval (ft bgs)	Elevation ^a (ft msl)	Date Measured	Water (ft btoc)	Elevation (ft msl)
DBS-2 (cont.)	58.0-78.0	3,820.50	6/08/2016	68.91	3,751.59
			9/13/2016	69.76	3,750.74
			12/01/2016	69.73	3,750.77
			6/20/2017	71.33	3,749.17
			12/19/2017	70.42	3,750.08
DBS-3	56.0-76.72	3,816.66	4/08/2009	60.67	3,755.99
			5/11/2011	61.25	3,755.41
			10/04/2011	61.25	3,755.41
			2/08/2012	61.11	3,755.55
			4/30/2012	61.41	3,755.25
			9/10/2012	61.81	3,754.85
			6/23/2013	62.08	3,754.58
			1/09/2014	63.30	3,753.36
			4/07/2014	63.43	3,753.23
			3/20/2015	63.93	3,752.73
			6/30/2015	63.99	3,752.67
			9/29/2015	64.17	3,752.49
			12/16/2015	64.41	3,752.25
			3/22/2016	63.88	3,752.78
			6/08/2016	63.92	3,752.74
			9/13/2016	64.56	3,752.10
			12/01/2016	64.59	3,752.07
			6/20/2017	65.52	3,751.14
			12/19/2017	65.54	3,751.12
DBS-4	56.0–76.0	3,820.37	4/08/2009	66.27	3,754.10
			5/11/2011	67.23	3,753.14
			10/04/2011	66.67	3,753.70
			2/08/2012	66.76	3,753.61
			4/30/2012	67.02	3,753.35
			9/10/2012	67.78	3,752.59
			6/23/2013	67.70	3,752.67

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009.

ft bgs = Feet below ground surface ft btoc = Feet below top of casing

b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 3 of 8

	Screen	Top of Casing		Depth to	Groundwater
Monitor Well	Interval (ft bgs)	Elevation a (ft msl)	Date Measured	Water (ft btoc)	Elevation (ft msl)
DBS-4 (cont.)	56.0–76.0	3,820.37	1/09/2014	69.37	3,751.00
		.,	4/07/2014	69.23	3,751.14
			3/20/2015	69.81	3,750.56
			6/30/2015	69.85	3,750.52
			9/29/2015	70.00	3,750.37
			12/16/2015	70.25	3,750.12
			3/22/2016	69.74	3,750.63
			6/08/2016	69.62	3,750.75
			9/13/2016	70.35	3,750.02
			12/01/2016	70.38	3,749.99
			6/20/2017	71.67	3,748.70
			12/19/2017	71.08	3,749.29
DBS-5	56.9–76.9	3,820.66	4/08/2009	62.99	3,757.67
			5/11/2011	63.45	3,757.21
			10/04/2011	63.41	3,757.25
			2/08/2012	63.46	3,757.20
			4/30/2012	63.70	3,756.96
			9/10/2012	63.92	3,756.74
			6/23/2013	64.30	3,756.36
			1/09/2014	65.28	3,755.38
			4/07/2014	65.48	3,755.18
			3/20/2015	65.9	3,754.76
			7/01/2015	66.18	3,754.48
			9/29/2015	66.25	3,754.41
			12/16/2015	66.47	3,754.19
			3/22/2016	66.08	3,754.58
			6/08/2016	66.16	3,754.50
			9/13/2016	66.64	3,754.02
			12/01/2016	66.72	3,753.94
			6/20/2017	67.60	3,753.06
			12/19/2017	67.88	3,752.78

ft btoc = Feet below top of casing

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009.
^b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.
ft bgs = Feet below ground surface ft btoc = Feet below top of ca

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 4 of 8

Monitor	Screen Interval	Top of Casing Elevation ^a	Date	Depth to Water	Groundwater Elevation
Well	(ft bgs)	(ft msl)	Measured	(ft btoc)	(ft msl)
DBS-6	56.7–76.7	3,812.65	4/07/2009	62.75	3,749.90
			5/11/2011	63.11	3,749.54
			10/04/2011	63.16	3,749.49
			2/08/2012	63.20	3,749.45
			4/30/2012	63.43	3,749.22
			9/10/2012	63.60	3,749.05
			6/23/2013	63.74	3,748.91
			1/09/2014	64.00	3,748.65
			4/07/2014	64.22	3,748.43
			3/19/2015	64.78	3,747.87
			7/01/2015	64.81	3,747.84
			9/29/2015	65.48	3,747.17
			12/16/2015	65.26	3,747.39
			3/22/2016	65.38	3,747.27
			6/08/2016	65.37	3,747.28
			9/13/2016	65.51	3,747.14
			12/01/2016	65.51	3,747.14
			6/20/2017	65.81	3,746.84
			12/19/2017	66.29	3,746.36
DBS-7	55.1–75.1	3,810.21	4/07/2009	61.74	3,748.47
DBS-8	55.2–75.2	3,810.70	4/07/2009	61.20	3,749.50
			5/11/2011	61.67	3,749.03
			10/04/2011	61.71	3,748.99
			2/08/2012	61.77	3,748.93
			4/30/2012	62.00	3,748.70
			9/10/2012	62.15	3,748.55
			6/23/2013	62.28	3,748.42
			1/09/2014	62.47	3,748.23
			4/07/2014	62.67	3,748.03
			3/19/2015	63.19	3,747.51
			6/30/2015	63.25	3,747.45

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009.

ft bgs = Feet below ground surface ft btoc = Feet below top of casing

b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 5 of 8

		Top of			
Monitor Well	Screen Interval	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	(ft bgs)	` ,			,
DBS-8 (cont.)	55.2–75.2	3,810.70	9/29/2015	63.82	3,746.88
			12/16/2015	63.58	3,747.12
			3/22/2016	63.76	3,746.94
			6/08/2016	63.72	3,746.98
			9/13/2016	63.83	3,746.87
			12/01/2016	63.79	3,746.91
			6/20/2017	64.09	3,746.61
			12/19/2017	64.53	3,746.17
DBS-9	48.0–68.0	3,806.26	4/08/2009	53.93	3,752.33
			5/11/2011	54.39	3,751.87
			10/04/2011	54.59	3,751.67
			2/08/2012	54.53	3,751.73
			4/30/2012	54.68	3,751.58
			9/10/2012	54.77	3,751.49
			6/23/2013	55.04	3,751.22
			1/09/2014	55.27	3,750.99
			4/07/2014	55.56	3,750.70
			3/19/2015	55.95	3,750.31
			7/01/2015	56.14	3,750.12
			9/29/2015	56.49	3,749.77
			12/16/2015	56.52	3,749.74
			3/22/2016	56.51	3,749.75
			6/08/2016	56.64	3,749.62
			9/13/2016	56.81	3,749.45
			12/01/2016	56.88	3,749.38
			6/20/2017	57.28	3,748.98
			12/19/2017	57.67	3,748.59
NW-1s	52.95–72.95	3,817.33	4/08/2009	62.35	3,754.98
NW-1m	99.31–119.31	3,817.35	4/08/2009	62.25	3,755.10
NW-1d	149.45–169.45	3,817.35	4/08/2009	62.04	3,755.31
NW-2s	53.35-73.35	3,812.50	4/08/2009	63.08	3,749.42

ft bgs = Feet below ground surface ft btoc = Feet below top of casing

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009. ^b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 6 of 8

Monitor Well	Screen Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
NW-2m	93.72–113.72	3,812.45	4/08/2009	63.27	3,749.18
NW-2d	126.87-146.87	3,812.46	4/08/2009	66.41	3,746.05
PMW-1	63–78	3,821.17	6/23/2008	67.51	3,753.66
			4/08/2009	65.97	3,755.20
			5/11/2011	68.70	3,752.47
			10/04/2011	66.95	3,754.22
			2/08/2012	66.69	3,754.48
			4/30/2012	67.27	3,753.90
			9/10/2012	69.77	3,751.40
			6/23/2013	68.40	3,752.77
			1/09/2014	71.24	3,749.93
			4/07/2014	69.97	3,751.20
			3/20/2015	70.78	3,750.39
			7/01/2015	71.41	3,749.76
			9/29/2015	70.76	3,750.41
			12/16/2015	71.03	3,750.14
			3/22/2016	70.30	3,750.87
			6/08/2016	69.65	3,751.52
			9/13/2016	71.08	3,750.09
			12/01/2016	70.97	3,750.20
			6/20/2017	73.06	3,748.11
			12/19/2017	71.19	3,749.98
MW-1	120–140	NA	6/23/2008	59.90	NA
MW-2	127–147	3,812.68	6/23/2008	61.42	3,751.26
			4/07/2009	61.65	3,751.03
MW-3	NA	3,812.05	6/23/2008	62.06	3,749.99
			4/07/2009	62.02	3,750.03
			5/11/2011	62.91	3,749.14
			10/04/2011	62.91	3,749.14
			2/08/2012	62.95	3,749.10
			4/30/2012	63.39	3,748.66

ft bgs = Feet below ground surface ft btoc = Feet below top of casing

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009. ^b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 7 of 8

	Screen	Top of Casing		Depth to	Groundwater
Monitor Well	Interval (ft bgs)	Elevation a (ft msl)	Date Measured	Water (ft btoc)	Elevation (ft msl)
MW-3 (cont.)	NA	3,812.05	9/10/2012	63.50	3,748.55
			6/23/2013	63.36	3,748.69
			1/09/2014	63.55	3,748.50
			4/07/2014	63.88	3,748.17
			3/19/2015	64.27	3,747.78
			7/01/2015	64.34	3,747.71
			9/29/2015	67.94	3,744.11
			12/16/2015	64.75	3,747.30
			3/22/2016	64.84	3,747.21
			6/08/2016	64.89	3,747.16
			9/13/2016	66.33	3,745.72
			12/01/2016	66.66	3,745.39
			6/20/2017	65.56	3,746.49
			12/19/2017	65.70	3,746.35
MW-4	111–131	3,811.33	6/23/2008	62.12	3,749.21
			4/07/2009	62.51	3,748.82
MW-5	112–132	3,808.96	6/23/2008	60.60	3,748.36
			4/07/2009	60.79	3,748.17
			5/11/2011	61.17	3,747.79
			10/04/2011	61.72	3,747.24
			2/08/2012	61.23	3,747.73
			4/30/2012	61.50	3,747.46
			9/10/2012	61.65	3,747.31
			6/23/2013	61.75	3,747.21
			1/09/2014	61.90	3,747.06
			4/07/2014	62.18	3,746.78
			3/19/2015	62.96	3,746.00
			6/30/2015	62.71	3,746.25
			9/29/2015	63.92	3,745.04
			12/16/2015	63.02	3,745.94
			3/22/2016	63.14	3,745.82

ft bgs = Feet below ground surface ft btoc = Feet below top of casing

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009. ^b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

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Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 8 of 8

Monitor Well	Screen Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
MW-5 (cont.)	112–132	3,808.96	6/08/2016	63.47	3,745.49
			9/13/2016	63.66	3,745.30
			12/01/2016	63.70	3,745.26
			6/21/2017	63.62	3,745.34
			12/19/2017	65.02	3,743.94
MW-6	NA	3,810.17	6/23/2008	62.17	3,748.00
			4/07/2009	62.41	3,747.76

ft bgs = Feet below ground surface ft btoc = Feet below top of casing

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009. ^b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 1 of 8

Monitor Well	Date	Chloride Concentration
		(mg/L) ^a 250
	WQCC Standard	
DBS-1	4/08/2009	320
	5/12/2011	940
	10/04/2011	Well destroyed
DBS-1R	5/01/2012	3,000
	9/11/2012	3,200
	6/25/2013	3,300
	1/10/2014	1,000
	4/08/2014	1,700
	3/20/2015	1,200
	7/01/2015	860
	9/30/2015	670
	12/17/2015	760
	3/23/2016	560
	6/09/2016	570
	09/14/2016	360
	12/01/2016	360
	6/20/2017	320
	12/20/2017	190
DBS-2	4/08/2009	14
	5/12/2011	25
	10/05/2011	18
	2/09/2012	22
	5/01/2012	24
	9/11/2012	44
	6/25/2013	36
	1/10/2014	45
	4/08/2014	22
	3/20/2015	29
	6/30/2015	28
	9/30/2015	40
	12/17/2015	35

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

^b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 2 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
NA	IWQCC Standard	250
DBS-2 (cont.)	3/23/2016	46
	6/09/2016	41
	9/14/2016	41
	12/02/2016	53
	6/20/2017	59
	12/20/2017	37
DBS-3	4/08/2009	36
	5/12/2011	35
	10/05/2011	34
	2/09/2012	34
	5/01/2012	33
	9/11/2012	34
	6/24/2013	32
	1/10/2014	34
	4/08/2014	32
	3/20/2015	35
	6/30/2015	35
	9/30/2015	34
	12/17/2015	34
	3/23/2016	36
	6/09/2016	35
	9/14/2016	37
	12/02/2016	37
	6/20/2017	39
	12/20/2017	42
DBS-4	4/08/2009	38
	5/12/2011	33
	10/05/2011	32
	2/09/2012	32
	5/01/2012	31
	9/11/2012	32

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

^b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 3 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
	IWQCC Standard	250
DBS-4 (cont.)	6/25/2013	31
220 . (66)	1/10/2014	32
	4/08/2014	30
	3/20/2015	33
	6/30/2015	31
	9/30/2015	33
	12/17/2015	35
	3/23/2016	38
	6/09/2016	35
	9/14/2016	37
	12/02/2016	41
	6/20/2017	35
	12/20/2017	32
DBS-5	4/08/2009	65
	5/12/2011	140
	10/05/2011	140
	2/09/2012	140
	4/30/2012	150
	9/11/2012	160
	6/24/2013	160
	1/10/2014	180
	4/08/2014	160
	3/20/2015	140
	7/01/2015	140
	9/30/2015	150
	12/17/2015	160
	3/23/2016	150
	6/09/2016	150
	9/14/2016	170
	12/02/2016	170
	6/20/2017	170

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

^b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 4 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
NA	//WQCC Standard	250
DBS-5 (cont.)	12/20/2017	170
DBS-6	4/07/2009	380
	5/12/2011	410
	10/05/2011	400
	2/09/2012	380
	4/30/2012	400
	9/11/2012	390
	6/24/2013	340
	1/10/2014	390
	4/07/2014	400
	3/19/2015	370
	7/01/2015	360
	9/30/2015	370
	12/17/2015	380
	3/23/2016	310
	6/09/2016	300
	9/14/2016	290
	12/02/2016	300
	6/21/2017	240
	12/19/2017	200
DBS-7	4/07/2008	570
DBS-8	4/07/2009	58
	5/12/2011	36
	10/05/2011	140
	2/09/2012	41
	4/30/2012	41
	9/10/2012	42
	6/24/2013	45
	1/09/2014	38
	4/07/2014	36
	3/19/2015	36

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

^b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 5 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a	
	NMWQCC Standard		
DBS-8 (cont.)	7/01/2015	250 34	
DDO O (COIIC.)	9/30/2015	35	
	12/17/2015	33	
	3/23/2016	35	
	6/09/2016	34	
	9/14/2016	34	
	12/02/2016	33	
	6/21/2017	33	
	12/19/2017	28	
DBS-9	4/08/2009	210	
	5/12/2011	600	
	10/05/2011	440	
	2/09/2012	290	
	4/30/2012	330	
	9/11/2012	320	
	6/24/2013	200	
	1/10/2014	170	
	4/07/2014	220	
	3/19/2015	260	
	7/01/2015	210	
	9/30/2015	260	
	12/17/2015	230	
	3/23/2016	200	
	6/09/2016	190	
	9/14/2016	190	
	12/02/2016	180	
	6/21/2017	200	
	12/20/2017	230	
NW-1s	4/08/2009	630	
NW-1m	4/08/2009	57	
NW-1d	4/08/2009	38	

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

^b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 6 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
NΛ	//////////////////////////////////////	250
NW-2s	4/08/2009	410
NW-2m	4/08/2009	570
NW-2d	4/08/2009	4,700
PMW-1	2/27/2008	9,500 ^b
	5/30/2008	8,600 b
	6/23/2008	12,700
	4/08/2009	11,000
	5/12/2011	13,000
	10/05/2011	12,000
	2/09/2012	12,000
	5/01/2012	12,000
	9/11/2012	14,000
	6/25/2013	14,000
	1/10/2014	11,000
	4/08/2014	12,000
	3/20/2015	8,500
	7/01/2015	8,600
	9/30/2015	9,700
	12/17/2015	9,800
	3/23/2016	8,200
	6/09/2016	8,500
	9/14/2016	9,300
	12/01/2016	8,300
	6/20/2017	13,000
	12/20/2017	12,000
MW-1	5/30/2008	75 ^b
	6/23/2008	243
MW-2	2/27/2008	120 ^b
	5/30/2008	80 ^b
	6/23/2008	1,480
	4/07/2009	1,200

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

^b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 7 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
NMWQCC Standard		250
MW-3	2/27/2008	348 b
	5/30/2008	360 b
	6/23/2008	1,090
	4/07/2009	17,000
	5/12/2011	16,000
	10/05/2011	14,000
	2/09/2012	15,000
	4/30/2012	14,000
	9/10/2012	16,000
	6/24/2013	12,000
	1/10/2014	10,000
	4/07/2014	12,000
	3/19/2015	9,700
	7/01/2015	10,000
	9/30/2015	9,600
	12/17/2015	5,100
	3/23/2016	8,200
	6/09/2016	9,400
	9/14/2016	9,100
	12/02/2016	11,000
	6/21/2017	10,000
	12/20/2017	8,300
MW-4	2/27/2008	476 b
	5/30/2008	512 ^b
	6/23/2008	5,730
	4/07/2009	6,600
MW-5	2/27/2008	1,280 ^b
	5/30/2008	1,220 ^b
	6/23/2008	1,260
	4/07/2009	1,300
	5/12/2011	1,500

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

^b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter

Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 8 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
NN	IWQCC Standard	250
MW-5 (cont.)	10/05/2011	1,500
	2/09/2012	1,500
	4/30/2012	1,400
	9/10/2012	1,500
	6/24/2013	1,300
	1/10/2014	1,300
	4/07/2014	1,300
	3/19/2015	1,200
	7/01/2015	1,200
	9/30/2015	1,000
	12/17/2015	1,000
	3/23/2016	980
	6/09/2016	970
	9/14/2016	1,000
	12/02/2016	710
	6/21/2017	870
	12/19/2017	850
MW-6	2/27/2008	32 ^b
	5/30/2008	36 ^b
	6/23/2008	31.4
	4/07/2009	25
Ranch Headquarters Supply Well	6/23/2008	35.4
Brine Station Fresh	2/27/2008	630 ^b
Water Supply Well	5/30/2008	590 ^b
	6/23/2008	650

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

^b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 3. Average Groundwater Extraction Rates Salty Dog Brine Station, Lea County, New Mexico

Recovery Well	Date	Average Extraction Rate ^a (gpm)
RW-1	4/07/2012	Groundwater extraction started
	5/01/2012	2.1
	9/11/2012	2.9
	6/25/2013	4.1
	11/15/2013	3.6
	3/20/2015 b	2.4
	6/30/2015	_
FWS-1	12/17/2015	_
	3/22/2016	12.8
	6/08/2016	33.9
	9/13/2016	5.4
	12/02/2016	39.7
	6/20/2017	32.7
	12/19/2017	37.3
RW-2	4/06/2012	Groundwater extraction started
	5/01/2012	2.5
	9/11/2012	4.3
	12/14/2012	3.9
	6/25/2013 ^c	_
	9/21/2013 ^d	2.9
	9/30/2015	68
	12/17/2015	44
	3/22/2016	32
	6/08/2016	9.0
	9/13/2016	5.7
	12/01/2016 ^e	_
	6/20/2017 ^e	_
	12/19/2017	12.4

^a Average extraction rates based on totalizer flow meter readings and/or fresh water production records.

production records.

Pumping at RW-1 stopped because pumping of FWS-1 has lowered groundwater levels at RW-1. Pumping at FWS-1 provides hydraulic containment and removal of chloride-impacted groundwater in the former brine pond area.

c New pump installed in RW-2 and started on June 25, 2013.

d Meter and pump were removed from RW-2 on approximately September 21, 2013 by facility manager to install a new, larger-capacity pump.

e Meter was inoperable because it was damaged. Meter was replaced in November 2017. gpm = Gallons per minute

Appendix A

Laboratory Analytical

Report



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 11, 2018

John Ayarbe
Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL:
FAX

RE: Salty Dog OrderNo.: 1712D25

Dear John Ayarbe:

Hall Environmental Analysis Laboratory received 12 sample(s) on 12/21/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1712D25

Date Reported: 1/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-6

Project: Salty Dog
 Collection Date: 12/19/2017 2:15:00 PM

 Lab ID: 1712D25-001
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	200	50	mg/L	100 12/29/2017 11:06:16	PM R48148

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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tation limits Page 1 of 15
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is out of limit as specified

Analytical Report

Lab Order **1712D25**Date Reported: **1/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-8

Project: Salty Dog
 Collection Date: 12/19/2017 3:10:00 PM

 Lab ID: 1712D25-002
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	28	5.0	mg/L	10 12/29/2017 11:18:40	PM R48148

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712D25**Date Reported: **1/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-5

Project: Salty Dog
 Collection Date: 12/19/2017 3:45:00 PM

 Lab ID: 1712D25-003
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: MRA
Chloride	850	50 * mg/L	100 12/29/2017 11:55:54	PM R48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical ReportLab Order **1712D25**

Date Reported: 1/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Injection

Project: Salty Dog
 Collection Date: 12/19/2017 4:35:00 PM

 Lab ID: 1712D25-004
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Q)ual	Units	DF	Date Analyzed	Batch
SPECIFIC GRAVITY						Analy	st: JRR
Specific Gravity	1.000	0			1	12/27/2017 2:04:00 P	M R48036
EPA METHOD 300.0: ANIONS						Analys	st: MRA
Chloride	270	50	*	mg/L	100	12/30/2017 12:20:44	AM R48148
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS					Analys	st: KS
Total Dissolved Solids	776	40.0	*D	mg/L	1	12/27/2017 6:16:00 P	M 35709
SM4500-H+B: PH						Analys	st: JRR
рН	7.59		Н	pH units	1	12/27/2017 12:16:12	PM R48063

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712D25**Date Reported: **1/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-3

Project: Salty Dog
 Collection Date: 12/20/2017 9:00:00 AM

 Lab ID: 1712D25-005
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: MRA
Chloride	8300	500 * mg/L	1E 1/6/2018 11:36:49 PN	N R48275

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ut of limit as specified

Lab Order **1712D25**

Date Reported: 1/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-9

Project: Salty Dog
 Collection Date: 12/20/2017 9:35:00 AM

 Lab ID: 1712D25-006
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qua	l Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	230	50	mg/L	100 12/30/2017 2:24:50 A	AM A48148

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 15
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1712D25**Date Reported: **1/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-4

Project: Salty Dog
 Collection Date: 12/20/2017 10:00:00 AM

 Lab ID: 1712D25-007
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	32	5.0	mg/L	10 12/30/2017 2:37:15 A	AM A48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1712D25

Date Reported: 1/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-2

Project: Salty Dog
 Collection Date: 12/20/2017 10:35:00 AM

 Lab ID: 1712D25-008
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: MRA
Chloride	37	5.0	mg/L	10 12/30/2017 3:26:54 /	AM A48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712D25**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/11/2018

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-5

Project: Salty Dog
 Collection Date: 12/20/2017 10:50:00 AM

 Lab ID: 1712D25-009
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	170	5.0	mg/L	10 12/30/2017 3:51:44 A	AM A48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712D25**Date Reported: **1/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-3

Project: Salty Dog
 Collection Date: 12/20/2017 11:05:00 AM

 Lab ID: 1712D25-010
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	42	5.0	mg/L	10 12/30/2017 4:16:33 A	AM A48148

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 10 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1712D25**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/11/2018

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-1R

Project: Salty Dog
 Collection Date: 12/20/2017 11:40:00 AM

 Lab ID: 1712D25-011
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	190	50	mg/L	100 12/30/2017 4:53:47	AM A48148

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 11 of 15
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1712D25**Date Reported: **1/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: PMW-1

Project: Salty Dog
 Collection Date: 12/20/2017 12:10:00 PM

 Lab ID: 1712D25-012
 Matrix: AQUEOUS
 Received Date: 12/21/2017 10:18:00 AM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: MRA
Chloride	12000	500 * mg/L	1E 12/30/2017 5:18:36	AM A48148

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 12 of 15
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Hall Environmental Analysis Laboratory, Inc.

Result

WO#: 1712D25

Qual

RPDLimit

%RPD

11-Jan-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBW** Batch ID: R48148 RunNo: 48148

PQL

Prep Date: Analysis Date: 12/29/2017 SeqNo: 1544631 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 0.50

Sample ID LCS-b SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R48148 RunNo: 48148 Prep Date: Analysis Date: 12/29/2017 SeqNo: 1544634 Units: mg/L

%REC

LowLimit

Analyte HighLimit Chloride 4.6 0.50 5.000 0 92.4 110

SPK value SPK Ref Val

Sample ID MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: A48148 RunNo: 48148 Prep Date: Analysis Date: 12/30/2017 Units: mg/L SeqNo: 1544693

SPK value SPK Ref Val %REC LowLimit %RPD Result **PQL RPDLimit** Qual Analyte HighLimit

Chloride ND 0.50

Sample ID LCS SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: RunNo: 48148 LCSW Batch ID: A48148

Prep Date: Analysis Date: 12/30/2017 SeqNo: 1544694 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual

0.50 Chloride 4.6 5.000 91.7 90

Sample ID MB TestCode: EPA Method 300.0: Anions SampType: mblk

RunNo: 48275 Client ID: PRW Batch ID: R48275

Prep Date: Analysis Date: 1/6/2018 SeqNo: 1550433 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 0.50

Sample ID LCS SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R48275 RunNo: 48275

Prep Date: Analysis Date: 1/6/2018 SeqNo: 1550434 Units: mg/L

%RPD Result SPK value SPK Ref Val %REC HighLimit **RPDLimit** Analyte PQL LowLimit Qual

Chloride 0.50 97.9 4.9 5.000 90

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 13 of 15

Hall Environmental Analysis Laboratory, Inc.

0.9988

WO#: **1712D25**

0.170

20

11-Jan-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Specific Gravity

Sample ID 1712D25-004ADUP SampType: DUP TestCode: Specific Gravity

Client ID: Injection Batch ID: R48036 RunNo: 48036

0

Prep Date: Analysis Date: 12/27/2017 SeqNo: 1539533 Units:

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 14 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712D25

11-Jan-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-35709 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 35709 RunNo: 48046

Prep Date: 12/26/2017 Analysis Date: 12/27/2017 SeqNo: 1539713 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-35709 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 35709 RunNo: 48046

Prep Date: 12/26/2017 Analysis Date: 12/27/2017 SeqNo: 1539714 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

antitation range

Page 15 of 15



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	DBS	Work Order Number: 1712D25			RcptNo: 1					
Received By:	Sophia Campuzano	12/21/2017 10:18:0	D AM	Jugar Com-						
Completed By:	Dennis Suazo	12/21/2017 2:27:14	PM	Davida	75.					
Reviewed By:	SRE 12/21	117				9				
Chain of Cus	tody									
1, Custody sea	ils intact on sample bottles?		Yes	No 🗆	Not Present 🗹					
2. Is Chain of C	Custody complete?		Yes 🗹	No 🗆	Not Present					
3. How was the	e sample delivered?		Client							
Log In										
4. Was an atte	empt made to cool the samp	les?	Yes 🗸	No 🗆	NA 🗆					
5. Were all san	mples received at a tempera	ture of >0° C to 6.0°C	Yes 🔽	No 🗆	NA 🗆					
6. Sample(s) in	n proper container(s)?		Yes 🗸	No 🗆						
7. Sufficient sa	mple volume for indicated to	est(s)?	Yes 🗹	No 🗆						
8. Are samples	(except VOA and ONG) pro	operly preserved?	Yes 🗹	No 🗆						
Was preserv	ative added to bottles?		Yes 🗌	No 🗹	NA 🗆					
10. VOA vials ha	ave zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🔽					
11. Were any sa	ample containers received b	roken?	Yes 🗆	No 🗸	# of preserved					
			-		battles checked					
	vork match bottle labels? pancies on chain of custody	v	Yes 🗹	No 🗔	for pH:	r >12 unless noted)				
	correctly identified on Chair	N usanonno	Yes 🗸	No 🏻	Adjusted?	a - 12 dilloss flottacy				
	at analyses were requested	16	Yes 🗸	No 🗆						
	ding times able to be met? customer for authorization.)		Yes 🔽	No 🗆	Checked by:					
	ling (if applicable)	11012400000			-					
711	otified of all discrepancies w	nth this order?	Yes 🗌	No 🗆	NA 🗹	7				
20000000	Notified:	Date	1							
By Wh	per la constantia de la constantia del constantia del constantia del constantia del constantia del constanti	Via:	eMail	Phone Fax	☐ In Person					
Regard										
LIL SPIREOSES	Instructions:									
17. Additional re										
18. Cooler Info Cooler No	The state of the s	Seal Intact Seal No	Seal Date	Signed By	I					
1	5.7 Good	Not Present			1					

С	hain-	of-Cu	stody Record	Turn-Around	Time:									NIN	TE	20	NI P	ME	NIT	AL	
	DBSA			Standard RushProject Name:					A	N	AL	YS		S L	A	30			ORY	•	
Mailing	Address	6020	Acodemy RD NE	SALTY DOG Project #:			490)1 H	awki	ns N	IE -	Alb	uque	erqu	e, N	M 87	109				
Shite	100						Te	1. 50	5-34	5-39	975	F	ax	505-	345-	410	7				
Phone:	#: 505		2-9400		5-0118.1	6						А	naly	/sis	Req	ues					
	Package:	TAYA	RBE	CONTRACTOR	ager: Ayarba	e	TMB's (8021)	TPH (Gas only)	30 / MRO			SIMS)		,PO4,SO4)	2 PCB's			Hd'			
Accredi		VALUE AND 1		Sampler: 77	7.76:07	eK	IMB	F	0	€	7			NO2	808		30000	20			î
□ NEL		□ Othe		On Ice:	Yes	□ No	+	+	88	418	504	or 82	s	õ	es/		OA)	63			jo /
□ EDD	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,C),NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	TDS, Specgrav, pH			Air Bubbles (Y or N)
2.19.17	1415	GW	DBS-6	17019		001								×							
1	1510	1	DBS-8			200								X							
	1545		MW-S			003								X							
	1635		Injection			004								X				X			
12.20.E	10900		MW-3			UUS								×							
	0935		DB5-9			006								X						\perp	
	1000		DB5-4			007								×							
	1035		035-2			108								×	1					1	\perp
	1050		DBS-5			009								×							1
	1105		DBS-3			010								×							1
	1140		DBS-IR			011								X						\perp	\perp
1	1210		PMW-1/			012								×			_				
Date: 2 <u>/21/i-7</u> Date:	Time: 101 9 Time:	Relinquish	Mila	Received by:	<u>C</u>	Date Time 12(2(117 1018 Date Time	Ker	narks	5:										Ī		



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 01, 2018

John Ayarbe
Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL:
FAX

RE: Salty Dog OrderNo.: 1802942

Dear John Ayarbe:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/16/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1802942**Date Reported: **3/1/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Brine

Project: Salty Dog
 Collection Date: 2/15/2018 1:00:00 PM

 Lab ID: 1802942-001
 Matrix: AQUEOUS
 Received Date: 2/16/2018 9:30:00 AM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
SPECIFIC GRAVITY			Analyst:	JRR
Specific Gravity	1.185	0	1 2/20/2018 12:44:00 PM	R49250
SM2540C MOD: TOTAL DISSO	LVED SOLIDS		Analyst:	KS
Total Dissolved Solids	309000	2000 *D mg/L	1 2/21/2018 7:01:00 PM	36630
SM4500-H+B: PH			Analyst:	JRR
рН	7.16	H pH uni	its 1 2/19/2018 11:44:03 AM	R49228
EPA 6010B: TOTAL RECOVER	ABLE METALS		Analyst:	MED
Sodium	59000	1000 mg/L	1E 2/23/2018 10:50:04 AM	36576

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	H Holding times for preparation or analysis exceeded		Analyte detected below quantitation limits Page 1 of 4
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1802942**

02-Mar-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-36576 SampType: MBLK TestCode: EPA 6010B: Total Recoverable Metals

Client ID: PBW Batch ID: 36576 RunNo: 49241

Prep Date: 2/16/2018 Analysis Date: 2/20/2018 SeqNo: 1588828 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium ND 1.0

Sample ID LCS-36576 SampType: LCS TestCode: EPA 6010B: Total Recoverable Metals

Client ID: LCSW Batch ID: 36576 RunNo: 49241

Prep Date: 2/16/2018 Analysis Date: 2/20/2018 SeqNo: 1588829 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium 46 1.0 50.00 0 92.6 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: **1802942**

02-Mar-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID 1802942-001ADUP SampType: DUP TestCode: Specific Gravity

Client ID: Brine Batch ID: R49250 RunNo: 49250

Prep Date: Analysis Date: 2/20/2018 SegNo: 1588971 Units:

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Specific Gravity
 1.183
 0
 0.118
 20

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: **1802942**

02-Mar-18

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-36630 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 36630 RunNo: 49297

Prep Date: 2/20/2018 Analysis Date: 2/21/2018 SeqNo: 1590748 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-36630 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 36630 RunNo: 49297

Prep Date: 2/20/2018 Analysis Date: 2/21/2018 SeqNo: 1590749 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

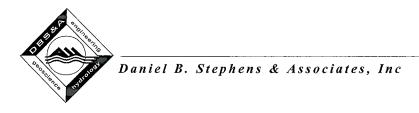
Website: www.hallenvironmental.com

Sample Log-In Check List

DBS Client Name: Work Order Number: 1802942 RcptNo: 1 Received By: Sophia Campuzano 2/16/2018 9:30:00 AM u als Completed By: Erin Melendrez 2/16/2018 11:23:26 AM Reviewed By: SICL 02/16/10 Labeled: MW Chain of Custody 1. Is Chain of Custody complete? Yes 🔽 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 Yes 🔽 NA \square No L 4. Were all samples received at a temperature of >0° C to 6.0°C NA 🗆 Yes 🗸 5. Sample(s) in proper container(s)? Yes 🔽 No i 6. Sufficient sample volume for indicated test(s)? Yes 🔽 7. Are samples (except VOA and ONG) properly preserved? Yes No 🔽 8. Was preservative added to bottles? Yes NA 🗀 9. VOA vials have zero headspace? No VOA Vials 🗹 No | 10. Were any sample containers received broken? No 🗹 Yes # of preserved bottles checked No 🗀 11. Does paperwork match bottle labels? for pH: (Note discrepancies on chain of custody) or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No 🗌 13. Is it clear what analyses were requested? Nο 14. Were all holding times able to be met? No 🗌 Yes 🗸 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 NA 🗹 No Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date 1.0 Good Yes

Chain-of-Custody Record						(Aller)														
Client:	DBS	A		□ Standar	d □ Rusi				_	1	A	LL	. E	N	/IF	20	NI	ME	ENT	TAL
				Project Nam			-			1	N.	AL	-Y	SIS	S L	_AI	30	R	ATC	DRY
Mailing /	Address	SIACI	1	0.000			'				WWW	v.ha	llenv	/iron	men	tal.co	om			
		HEBORD	PERGOT N.M. 87109	DAUT	Dog			49	901 F	ławk	ins N	IE -	Alb	ouqu	erqu	ie, N	M 87	7109	C	
6020	HC4	demy	ROAD NE Suite 10	Project #:	080	110 11			el. 50								-410			
Phone #	505	-822	2-9400	ES	03000	10.16						-	manuscript of	CONT. COMP.	_	ues				
email or	Fax#:			Project Mana	ager:			3	0						-			2 20000		
QA/QC P		E: □ Level 4 (Full Validation) □ Level 4 (Full Validation)		(8021)	TPH (Gas only)	O / MR			SIMS)		04,50	PCB's								
Accreditation □ NELAP □ Other □ EDD (Type)				Sampler:		TMB's	H	DR	_		S		D2.F	82						
			On Ice: Yes No		1 F	E	0	8.1	7.7	327		ž,	/ 80		~			2		
				Sample Temperature: 16		J #	¥ ±	(GR	141	d 50	or.	als	8	les		104			\ v	
Date	Time	Matrix গাঁথ তথ	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1802942	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 S	CRA 8 Met	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
-16-18	119	W	BriNP	2 PLASTIC	Nitric Aux		-	ш				-	Œ	A	00	00	80		+	
	1.5				1 1100	001	T	0	5	-	5 1	0		. 0			-		+	
							10			-	-1	-		14	10	5	1A	0	145	4
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									_	_		_	4	_	_	_				
Date: Ti	me:	Relinquishe	od har-	Received by:	,															
11-12			SAYRE	Receives by:	1	Date Time	Ren	narks	:											
- /	600 me:	Relinguishe		XIV		415/18 /6a	1													
	900	00		Received by:	Courie	Date Time														
15/18/	- Iw	XK-	\sim	Show C	Dz	2/16/18 0930														
If ne	cessary, si	ample subm	nitted to Half Environmental may be subco	intracted to other ac	credited laboratories	This serves as notice of this	noneih	Disc. A	mus mush		ated a		100 10							

Appendix B Field Notes



GROUNDWATER ELEVATION DATA SHEET

Project Name <u>Salty Dog</u>	Sampler <u>M. Zbrozek</u>
Project # <u>ES08.0118.06</u>	SampleDate <u>12.19.2017</u>
Project Manager <u>John Ayarbe</u>	Sheet #1 of _1

Well ID	Depth to NAPL	Depth to Water	Total Depth	Comments: (well dia , sampled, condition)
DBS-1R	_	67.80	74.42	
DBS-2	/	70.42	75.35	
DBS-3		65.54	74.76	
DBS-4	/	71.08	78.81	
DBS-5		67.88	75.38	
DBS-6		66.29	76.02	
DBS-7		65.10		WL only
DBS-8		64.53	69.91	
DBS-9		67.67	67.55	
MW-3		65.70	147.13	
MW-4	/	65.80		WL only
MW-5		65.02	128.78	
MW-6		65.76		WL only
PMW-1		71.19	77.73	
NW-1				WL only

Comments:		

Project # E Project Mar Well # DB Well Diame Depth to NA	•								
Total Depth of Well: 76.02 (feet) Purge Method Grab									
Note: One casing vo	olume (SCH 40) PVC): 2.0" ID	casıng = 0.16 gal/fi	t; 4.0" = 0.65 ga	ıl/ft; 6.0" = 1.47	gal/ft			
Groundwat	Groundwater Parameters:								
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)			
Initial	6.72	18.4	924	122.7	9.38	_			
1	6.93	18.9	1046	99.4	6.70				
1.5	6.95	19.0	1079	90.3	5.83				
2	6.94	19.0	1101	87.3	5.80				
2.5	6.94	12.1	1123	83.8	5.82				
3	6.94	19.1	1133	81.3	5.84				
3.5									
4						· · · · · · · · · · · · · · · · · ·			
4.5 5									
Sample Description 1 poly									
Physical Ob	oservations								
Analytical M	/lethod(s) _	Chloride							



Daniel B. Stephens & Associates, Inc.

Project Nar	ne Salty D	og	S	Sampler M. Zbrozek					
	ES08.0118.			ample Date:		,			
Project Mar	nager [.] Johr	n Ayarbe	S	ample Time:	1510				
Well # DB	S-8		_						
Well Diame	eter:2	2"	(inches) He	ight of Water	Column: 5.	38(feet)			
Depth to NA	4PL:	(fe	eet btoc) Casin	g Volume:	0.86	(gal)			
			eet btoc) Purge						
Total Depth	of Well:	59.91	(feet) Pur	ge Method _	Grab				
Note: One casing vo) PVC): 2 0" ID	casing = 0.16 gal/			′ gal/ft			
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)			
Initial	7.42	18.6	548.5	88.2	6.12				
1	7.27	20.0	549.6	85.3	6.09				
1.5	7.26	19.6	534.9	81.6	5.95				
2	7,26	19.6	533.0	82.2	5.96				
2.5	7,26	19.5	531.1	77.8	6.08				
3									
3.5									
44						<u></u>			
4.5	·								
5 Sample Des	scription <u>1</u>	poly							
Physical Ob	oservations.								
Analytical M	lethod(s)·	Chloride							

Project Na	me Salty D)og	S	ampler M.	Zbrozek				
	ES08.0118		S	ample Date:	12.20.2017	7			
Project Ma	nager Johr	n Ayarbe	S	ample Time:	1545				
Well # MV	V-5								
Well Diame	eter:2	2"	_(inches) Hei	ight of Water	Column: 6	3. 76 (feet)			
Depth to N	APL:	(feet btoc) Casın	g Volume:	10.20	(gal)			
Depth to W	Depth to Water: 65.02 (feet btoc) Purge Volume: 30.60 (gal)								
Total Depth of Well: 128 78 (feet) Purge Method Grab									
Note:			casing = 0 16 gal/1			gal/ft			
Groundwa	ter Paramet	ters:							
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)			
Initial	6.94	19.2	1866	115.3	3.61				
1	6,94	19.2	2758	92,7	3.54				
1.5	6.89	19.2	27.7	85,7	3,73				
2	6.87	19.2	2612	61.9	3.58				
2.5	6.91	19.2	2650	66:2	3.61				
3	6.91	19.2	2593	70.7	3.55				
3.5									
4									
4.5						*****			
5									
Sample Des	scription 1	poly							
	· - · · · · · · · · · · · · · · · · · ·								
Physical Ob	servations					<u>-</u>			
			· · · · · · · · · · · · · · · · · · ·						

Analytical Method(s) <u>Chloride</u>

Daniel B. Stephens & Associates, Inc.

Project Nan	roject Name Salty Dog Sampler M. Zbrozek							
Project # E	ES08.0118.	06	Sa	ample Date:	<u>12.20.2017</u>			
Project Mar	nager Johr	Ayarbe	Sa	ample Time:	0900			
Well # MV	V-3							
Well Diame	ter:2	2"	(inches) Hei	ght of Water	Column: 81	<u>. 43</u> (feet)		
Depth to NA	APL:	(fo	eet btoc) Casınç	g Volume:	13.02	(gal)		
Depth to W	ater: <u>65</u>	<u>.70</u> (fe	eet btoc) Purge	Volume:	39.08	(gal)		
Total Depth	of Well:	47.13	(feet) Pur	ge Method [.] _	Grab			
Note: One casing vo	olume (SCH 40) PVC). 2 0" ID	casing = 0.16 gal/f	t; 4 0" = 0 65 ga	al/ft; 6.0" = 1.47	gal/ft		
Groundwa	ter Paramet	ters:						
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)		
Initial	7.31	18.8	1552	116.9	5.49			
1	7.11	19.0	5147	103.2	4.38			
1.5	6.87	19.1	19686	93.0	2.88			
2	6.86	19.1	21744	83.3	2.85			
2.5	6.86	19.1	22166	78.3	2.83			
3	6.86	19.1	22248	17.8	2.61			
3.5								
4								
4.5								
5								
Sample Des	scription <u>1</u>	poly		4				
Physical Ob	oservations.							
Analytical M	lethod(s) _	Chloride						

Project Name Salty Dog Sampler M. Zbrozek Project # ES08.0118.06 Sample Date: 12.20.2017 Project Manager John Ayarbe Sample Time:									
Well # DB			_						
Well Diame	ter:2	2"	_(inches) Hei	ght of Water	Column:	7. 88 (feet)			
Depth to NA	APL:	(fo	eet btoc) Casing	g Volume:	1.58	(gal)			
Depth to W	ater: <u>57</u>	.67 (f	eet btoc) Purge	Volume:	4.74	(gal)			
Total Depth	Total Depth of Well: 67.55 (feet) Purge Method Grab								
Note: One casing volume (SCH 40 PVC): 2 0" ID casing = 0.16 gal/ft; 4 0" = 0 65 gal/ft; 6.0" = 1 47 gal/ft Groundwater Parameters:									
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)			
Initial	7.35	14.6	1129	48.3	10.68				
1	7,28	18.1	1006	48.8	9.76				
1.5	7.23	18.2	1008	50.6	9.41				
2	7.21	18,2	936	51.7	9.15				
2.5	7.19	18.3	935	52.7	9.02				
3	7.15	18,3	935	54.5	8.05				
3,5	7.12	18.3	903	56.3	7. マス				
4									
4.5									
5				ļ					
Sample Des	scription [.] <u>1</u>	poly							
Physical Ob	servations								

Analytical Method(s) Chloride

	O.V	CONDITAL		IO DATA OT						
Project Nar	ne Salty D	og	Sa	ampler M. Z	Zbrozek					
	ES08.0118		Sa	ample Date:	<u>12.20.2017</u>	,				
Project Mai	_{nager} . Johr	n Ayarbe	Sa	ample Time:	1000					
Well # DB	S-4		_							
Well Diame	eter:2	2"	(inches) Hei	ght of Water	Column: 7	. <u>73</u> (feet)				
Depth to N	4PL:	(fe	eet btoc) Casing	g Volume:	1.24	(gal)				
Depth to Water: 71.08 (feet btoc) Purge Volume: 3.71 (gal)										
Total Depth	of Well: 🚽	8.81	(feet) Pur	ge Method _	Grab					
Total Depth of Well: 75.61 (feet) Purge Method Grab Note: One casing volume (SCH 40 PVC). 2 0" ID casing = 0 16 gal/ft; 4.0" = 0 65 gal/ft; 6.0" = 1 47 gal/ft										
Groundwa	ter Parame	ters:								
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)				
Initial	7.68	18-7	474.9	93.7	9.54					
1	7.49	16,9	472.8	89.6	9.16					
1.5	7.47	19.0	433.6	88.4	8.93					
2	7.46	19.0	474.8	86.2	8.27					
2.5	7.46	19.0	474.2	85.5	8.11					
3	7.46	19.0	474.5	85.4	7.45					
3.5										
4										
4.5										
5										
Sample De	scription <u>1</u>	poly								
Physical Ob	oservations									

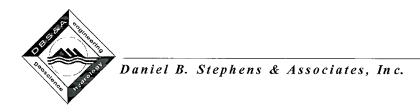
Analytical Method(s) Chloride

Project # DE Well # DE Well Diame Depth to No Depth to World Depth to World Depth Total Depth	Project Name. Salty Dog Project # ES08.0118.06 Project Manager John Ayarbe Sample Date 12.20.2017 Sample Time: 10.35 Well # DBS-2 Well Diameter 2" (inches) Height of Water Column: 4.93 (feet) Depth to NAPL (feet btoc) Casing Volume: 0.78 (gal) Depth to Water: 70.42 (feet btoc) Purge Volume: 2.36 (gal) Total Depth of Well: 75.35 (feet) Purge Method Grab Note: Die casing volume (SCH 40 PVC). 2.0" ID casing = 0.16 gal/ft; 4.0" = 0.65 gal/ft; 6.0" = 1.47 gal/ft									
	olume (SCH 40	0 PVC): 2.0" ID	casing = 0 16 gal/f	t; 4 0" = 0.65 ga	al/ft; 6.0" = 1 47	7 gal/ft				
Groundwa	Groundwater Parameters:									
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D O (mg/L)	Turbidity (NTU)				
Initial	7.60	18.2	461.7	113.6	6.37					
1	7.27	18.7	495.9	109.6	5.78					
1.5	7.25	18.9	495.4	106.2	7.89					
2	7.25	19.0	4195.1	105.5	8.02					
2.5	7.25	19.1	495.2	102.3	7.90					
3	7.25	19.1	495.2	101.9	7.79					
3.5										
4										
4.5										
Analytical M	lethod(s)	Chloride								

Project # E Project Mar Well # DB Well Diame Depth to NA										
Note:										
One casing volume (SCH 40 PVC) 2 0" ID casing = 0.16 gal/ft; 4 0" = 0.65 gal/ft; 6.0" = 1.47 gal/ft Groundwater Parameters:										
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)				
Initial	6.59	18.4	1129	135.0	6.14					
1	6-85	19.2	1128	128-8	5-93					
1.5	6.85	19.2	1118	127.3	588					
2	6.86	19.2	1105	126.5	5.74					
2.5	6.87	19.3	1091	125.6	5.84					
3	6.88	19.3	1069	123.1	5.90					
3.5	-									
4										
4.5 5										
	scription 1									
Analytical M	lethod(s) _	Chloride								

	0.11.0				PI							
	me Salty D			Sampler M. Zbrozek								
	ES08.0118.			Sample Date: <u>12.20.2017</u>								
Project Mar	nager Johr	n Ayarbe	Sa	ample Time:	1105							
Well # DB	S-3		_									
Well Diame	eter:2	2"	_(inches) Hei	ght of Water	Column: $\frac{7}{2}$	22 (feet)						
Depth to N	4PL:	(fe	eet btoc) Casing	g Volume:	1.48	(gal)						
Depth to W	ater: <u>65</u> .	<u>59</u> (fe	eet btoc) Purge	Volume:	4.43	(gal)						
Total Depth	of Well:	14.76	(feet) Pur	ge Method [.] _	Grab							
Note One casing vo	olume (SCH 40) PVC) ⁻ 2.0" ID	casing = 0.16 gal/f	t; 4 0" = 0 65 ga	al/ft; 6 0" = 1 47	′ gal/ft						
Groundwa	ter Paramet	ters:										
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)						
Initial	7.50	18.9	504.2	138.0	734							
1	7.34	17.1	504.9	128.8	694							
1.5	733	19.1	490.2	128.0	6.87							
2	7.33	19.1	480.1	1272	6.94							
2.5	7,33	17.1	477.8	126.7	6.94							
3	7.32	19.2	480.4	124.5	6.97							
3.5												
4				_								
4.5												
5												
Sample Des	scription <u>1</u>	poly										
						_						
Physical Ot	oservations											

Analytical Method(s) Chloride



Project # Project Ma Well # DE Well Diame Depth to No	nager Johr BS-1R eter: APL:	.06 n Ayarbe 2" (fo	S	g Volume: Volume:	12.20.2017 // 40 Column: 6.	7 .62_(feet (gal)
_	olume (SCH 40	·	casing = 0 16 gal/f	ft; 4 0'' = 0 65 g	al/ft; 6.0" = 1 47	7 gal/ft
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
Initial	7.52	18.7	1030	145.8	8.10	
1	7,47	18.7	1069	143.3	7.52	
1.5	7.48	18.7	1070	142.1	7.46	
2	7.46	18.7	1067	141-3	7.03	
2.5	7.45	18.7	1055	140.1	7.03	
3	7.43	18.7	1053	139.5	7.04	
3.5						
4						
4.5						
5			<u>-</u> .			
Sample Des	scription <u>1</u>	poly				
Physical Ob	servations					
Analytical M	lethod(s)	Chloride				

Project Na	me Salty D)og	S	ampler M Z	Zbrozek					
Project # ES08.0118.06				ample Date	12.20.2017	7				
Project Ma	nager Johr	n Ayarbe		Sample Time:						
Well# PN			_			,				
Well Diame	eter <u> </u>	2"	_(inches) Hei	ght of Water	Column: 6	.59_(feet)				
Depth to N	APL	(f	eet btoc) Casin	g Volume:	1.05	(gal)				
Depth to W	/ater: <u>71.</u>	<u>19</u> (f	eet btoc) Purge	Volume:	3.14	(gal)				
Total Depth	n of Well:	77.73	(feet) Pur	ge Method _	Grab					
Note:			casing = 0.16 gal/f			gal/ft				
Groundwa	ter Parame	ters:								
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)				
Initial	7.10	19.2	40999	179.2	6.32	/				
1	7.05	18.9	25527	167.6	6.80					
1.5	7.04	18.9	24441	163.6	6.71					
2	7.0	18.9	24505	163.0	6.63					
2.5	6.99	18.9	24729	161.0	6.54					
3	6.99	18.9	24891	160.2	6.52	· · · · · · · · · · · · · · · · · · ·				
3.5										
4										
4.5										
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Sample Des	scription <u>1</u>	poly								
Physical Ob	oservations.									
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Client: DB5A			□ Standard □ Rush																
			Project Name:																
Mailing Address: 6272 Academy RD NE			SALTY DOG																
			Project #:																
			ES08-0113-16			Analysis Request													
email or Fax#: JAYARBE @ PBSTEPHENS			Project Manager:			(nly)	30				6	(4)						
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Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE	TPH 8015B (0	TPH (Method	EDB (Method	PAH's (8310 c	RCRA 8 Meta	8081 Pesticide	8260B (VOA)	8270 (Semi-V	TDS, SFE			Air Bubbles (Y or N)
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1545	and the second	MW-5)							
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1050		DBS-5										2	<						
1105		DBS-3										3	×						
1140		PB5-1R										3	<						
1210	15 Accessive	PMW-11)	<						
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2.	12/19/17 Soity dog 2nd Sem! M. Tolow	mabinater Salty dog 2nd semi 12.19.17
_	12.05 m. Theoret onsite shevey and	1320 New cage around well to prevent
	reconn. No new development	cattle from chewing wifes-
	Observed.	RW-2
	1226 Degin Guaging wells	1336 Callbrate YSI
	AWell DTW TDI Notes	pH 4 pre 3.96 post 4.00 T°C 14.2°
- 1	DBS-18 67.80 74.42	7 6.91 7.00 13.1°
-	755-2 70.42 75.35	16 10.12 10.01 12.6°
	DBS-3 65.54 74.76	87e 1413 151940/en 141345/cm 12.90
	DES-4 71.08 78.91	ORP 220m 240-7 220m 13.9°
-	DBS-S 67.88 75.38	DO mg/6: 662 makes 8.12 9.76 13.4°
	DBS-6 65.78 76.02	1349 set up at DBS-6 Sample @ 1415
_	DBS-7 65.10	1510 Sample DBS-4
_	DBS-8 64.53 69.91	1545 SAMPLE MU-S
4	255-9 57.67 67.55 New 5 plag	1635 Sample Injection
_	MW-3 65.70 147.13	7695 SAMPLE Brine MB
.	MW-4 65.80	1700 SITE SECURE, M. Ebiozek
	MW-5 65.02 128.78	OFFSITE
-	MW6 65.76	
	PMW1 71,19 77.73	
-	NW-T	
-	1228 Meter reading FWS-1	
-	32901.3 Barrers	
-	2324 BPD Pumping	
-	1320 Meter Reading RW2	
	756.7 BBI not sumping	
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1: 12.20,17 and Sem! M. 750=74 0800 Mitbiotek continue, GWM 0815 Setup at MW-3 0900 Sample at MW-3 6926 Metering reading at FWS-2 24.6 BB1 OBPD NEW Fencinos 4 meiter conected 0935 SAMPLE @ DBS-9 1000 Sample @ DBS-4 1 1035 Sample @ DBS-2 5 1050 Sample @ DBS-5 1105 Sample @ DB5-3 1140 Sample 6 DBS-IR 1145 Call to STANDERDOIL no Barne, system of Fline - awatting Dagnosis, prechides bone sample 1210 Sample PMW-1 Deconn equipment, samples on Ice site secure 1250 M. BLIOZEH OFFSITE 12.20.17

Chavez, Carl J, EMNRD

From: McVey, Michael <mmcVey@dbstephens.com>

Sent: Monday, September 18, 2017 1:49 PM

To: Chavez, Carl J, EMNRD

Cc: susan@thestandardenergy.com; 'jim@thestandardenergy.com';

vincent@thestandardenergy.com; Ayarbe, John

Subject: First Semiannual 2017 GWM and O&M Report **Attachments:** Salty Dog_1st Semiannual 2017_9-15-2017.pdf

Carl,

Attached is the first semiannual 2017 groundwater monitoring and O&M report for the Salty Dog brine facility. Please give me or John a call at (505) 822-9400 if you have any questions.

Thanks,

Michael D. McVey

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

Hydrology | Engineering | Geoscience

Providing solutions for water, natural resources, and the environment

6020 Academy Road NE, Suite 100 | Albuquerque, New Mexico 87109 T (505) 822-9400 | D (505) 353-9130 | F (505) 822-8877 mmcvey@dbstephens.com | www.dbstephens.com

Facebook | LinkedIn | YouTube | Google+



Mr. Carl Chavez New Mexico Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505-4225

Re: First Semiannual 2017 Groundwater Monitoring and O&M Report

Salty Dog Brine Station, Lea County, New Mexico

Dear Mr. Chavez:

On behalf of PAB Services, Inc., Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to submit the enclosed groundwater monitoring and operation and maintenance (O&M) report for the Salty Dog brine station located in Lea County, New Mexico. Groundwater monitoring and O&M activities were completed at the site on June 20 and 21, 2017.

Please do not hesitate to call us at (505) 822-9400 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

John Ayarbe, P.G.

Senior Hydrogeologist

Michael D. McVey, P.G. Senior Hydrogeologist

JA/MDM/rpf Enclosure

cc: Pieter Bergstein, PAB Services, Inc.

Jim Sayre, Salty Dog, Inc.

First Semiannual 2017 Groundwater Monitoring and O&M Report

Salty Dog Brine Station Lea County, New Mexico

Prepared for

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

September 15, 2017



Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109



Daniel B. Stephens & Associates, Inc.

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Daniel B. Stephens & Associates, Inc.

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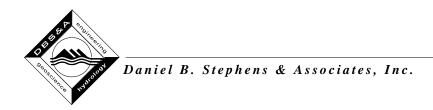
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First Semiannual 2017 Groundwater Monitoring and O&M Report Salty Dog Brine Station, Lea County, New Mexico

1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this groundwater monitoring and operations and maintenance (O&M) report for submission to the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (OCD) Environmental Bureau on behalf of PAB Services, Inc. (PAB) for the Salty Dog brine station (the site) located in Lea County, New Mexico (Figure 1). The report summarizes activities conducted at the site on June 20 and 21, 2017.

The site consists of a northern portion, where the brine pond was located prior to closure in October 2008, and a southern portion, where the brine well is located. The brine pond area and the brine well area are separated by approximately 2,500 feet, joined by a dirt road (Figure 1). Injection water for the brine well comes from two fresh water supply wells (FWS-1 and FWS-2) and remedial pumping at recovery wells in both the former brine pond area (RW-1) and brine well area (RW-2). Groundwater extraction at RW-1 is limited due to pumping from FWS-1. However, pumping at FWS-1 provides hydraulic containment and removal of chloride-impacted groundwater in the former brine pond area.

Brine that is produced for sale is stored at a tank battery on the southern boundary of the former brine pond area. The tank battery consists of six 750-barrel aboveground storage tanks (ASTs) surrounded by a berm. A concrete truck loading pad with two brine filling stations is located north of the tank battery. An operations shed is located adjacent to the loading pad to the west.

Six monitor wells (PMW-1, DBS-1R, and DBS-2 through DBS-5), one nested well (NW-1), one fresh water supply well (FWS-1), and one recovery well (RW-1) are located in the former brine pond area. Nine monitor wells (MW-2 through MW-6, DBS-6 through DBS-9), one nested well (NW-2), one fresh water supply well (FWS-2), and one recovery well (RW-2) are located in the brine well area (Figure 1).



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DBS&A installed groundwater extraction systems at the site in early April 2012 to provide hydraulic containment and removal of chloride-impacted groundwater in the former brine pond and brine well areas. The extraction systems consist of submersible pumps, conveyance lines, electrical power, and controls to extract impacted groundwater from the recovery wells. Extracted groundwater is conveyed to the on-site ASTs for reinjection at the brine well.

2. Scope of Work

PAB services, Inc. began semiannual groundwater monitoring and system O&M in 2017. The scope of work for groundwater monitoring consisted of (1) measuring fluid levels in and collecting groundwater samples from 11 monitor wells, and (2) performing maintenance on the groundwater extraction systems, as necessary. Groundwater samples were submitted to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for chloride analysis using U.S. Environmental Protection Agency (EPA) method 300.0. The monitor wells included in the quarterly sampling were selected in consultation with Jim Griswold on October 4, 2010; Mr. Griswold was the OCD Project Manager for the site at that time. The selected monitor wells are shown in Figures 2 through 5.

3. Monitoring Activities

3.1 Fluid Level Measurement

On June 20, 2017, DBS&A measured water levels in monitor wells DBS-1R, DBS-2 through DBS-5, and PMW-1 in the former brine pond area (Figure 2) and DBS-6, DBS-8, DBS-9, MW-3, and MW-5 in the brine well area (Figure 3) using a properly decontaminated electronic water level meter. Table 1 reports water level measurements and groundwater elevations.

During this monitoring event, the average depths to water beneath the former brine pond area and brine well area were 69.8 feet below ground surface (bgs) and 63.3 feet bgs, respectively. On average, water levels in the former brine pond area declined by approximately 1.51 feet since the last monitoring event in December 2016, while water levels in the brine well area increased by 0.04 foot.



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Figures 2 and 3 present potentiometric surface maps for the former brine pond area and the brine well area, respectively. The direction of groundwater flow beneath the former brine pond area remains to the southeast at a gradient of approximately 0.009 foot per foot (ft/ft) (Figure 2), increasing from 0.005 ft/ft since the previous monitoring event. A broad cone of depression was observed in the vicinity of the fresh water supply well (FWS-1) due to continued pumping of the well. The direction of groundwater flow beneath the brine well area remains to the southeast at a gradient of approximately 0.004 ft/ft (Figure 3)—consistent with the previous monitoring event.

3.2 Groundwater Sampling

On June 20 and 21, 2017, groundwater samples were collected from monitor wells DBS-1R, DBS-2 through DBS-6, DBS-8, DBS-9, MW-3, MW-5, and PMW-1 following standard sampling procedures developed from EPA guidance. Before sampling, each well was purged of a minimum of three casing volumes using a submersible pump so that a representative groundwater sample was collected. While purging, DBS&A measured water quality field parameters consisting of temperature, specific conductance, and pH. Samples were collected once three casing volumes were purged. Sample containers were then filled, labeled, and placed in an ice-filled cooler. Groundwater samples were submitted under chain of custody to HEAL for chloride analysis.

Samples of the brine well injection water and the produced brine were also collected to meet requirements under discharge permit BW-8. Analytical results of these samples will be reported in the 2017 Annual Class III Well Report.

4. Analytical Results

Table 2 summarizes chloride analytical results for the 11 groundwater samples. Figures 4 and 5 show the distribution of chloride in groundwater beneath the former brine pond area and the brine well area, respectively. The laboratory report and chain of custody documentation are provided in Appendix A. Field notes recorded during groundwater monitoring activities are provided in Appendix B.



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4.1 Former Brine Pond Area Wells

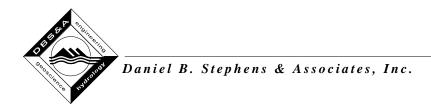
Since the last monitoring event in December 2016, minor to no changes in chloride concentrations were observed at monitor wells DBS-2 through DBS-5 (Table 2). DBS-1R and PMW-1 continue to exhibit chloride concentrations above the New Mexico Water Quality Control Commission (NMWQCC) standard of 250 milligrams per liter (mg/L) (Figure 4). The chloride concentration at DBS-1R decreased from 360 mg/L to 320 mg/L, while the concentration at PMW-1 increased from 8,300 mg/L to 13,000 mg/L.

The chloride plume in the former brine pond area remains bounded by the existing monitor well network (Figure 4). Pumping from PAB's fresh water supply well FSW-1 provides hydraulic containment of the chloride plume. The chloride concentration at downgradient monitor well DBS-4 remains below the NMWQCC standard, as do chloride concentrations at the two crossgradient monitor wells, DBS-2 and DBS-3.

4.2 Brine Well Area Wells

Since the last monitoring event in December 2016, minor changes in chloride concentrations were observed at most of the monitor wells in the brine well area (Table 2). Monitor wells MW-3 (the well closest to extraction well RW-2) and MW-5 (the farthest downgradient well) continue to exhibit chloride concentrations above the NMWQCC standard (Figure 5). The chloride concentration at MW-3 decreased from 11,000 mg/L to 10,000 mg/L. The chloride concentration at MW-5 increased from 710 mg/L to 870 mg/L. The chloride concentration in monitor well DBS-6, which exceeded the NMWQCC standard during the last monitoring event, decreased from 300 mg/L to 240 mg/L.

During previous monitoring events, monitor well DBS-9 (an upgradient monitor well) has exhibited chloride concentrations above the NMWQCC standard; however, during this reporting period, the chloride concentration at DBS-9 was 200 mg/L, below the NMWQCC standard (Table 2). DBS-9 was installed in the playa located northeast of the brine well to help characterize groundwater impacts from documented releases in 2002 and 2005.



5. Groundwater Extraction System O&M

Remedial groundwater extraction in the former brine pond and brine well areas began in April 2012 by pumping from recovery wells RW-1 and RW-2. Extracted groundwater volumes at RW-1 and RW-2 are reported in Table 3.

Production from the fresh water supply well (FWS-1) also supports hydraulic containment and removal of chloride-impacted groundwater in the former brine pond area.

5.1 Former Brine Pond Area

Other than some brief shutdowns to address a few maintenance issues, the groundwater extraction system at RW-1 operated continually until approximately March 2015 (Table 3). Pumping from the nearby fresh water supply well (FWS-1) is inhibiting the effectiveness of RW-1 as an extraction well by lowering groundwater levels at this well. PAB attempted to set the pump at RW-1 to a deeper depth in the well so that pumping from RW-1 could continue, but the pump is already set near the bottom of the well. Although pumping from RW-1 has ceased, pumping at FWS-1 provides containment of the chloride plume in the former brine pond area. The average pumping rate at FWS-1 from December 2016 to June 2017 was approximately 32.7 gallons per minute (gpm).

Monitor wells DBS-1R and PMW-1 are the only wells that exhibit chloride concentrations above the NMWQCC standard. Pumping of the fresh water supply well is preventing the downgradient migration of the chloride groundwater plume. Although the chloride concentrations in wells DBS-1R and PMW-1 remain elevated, they have decreased from historical highs (Table 2) and are expected to continue to decrease through time with continued pumping at the fresh water supply well. The chloride concentration at downgradient monitor well DBS-4 is well below the NMWQCC standard.



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5.2 Brine Well Area

The groundwater extraction system at RW-2 has been operated continually since April 6, 2012 with the exception of addressing a few maintenance issues. An estimated total of 22,059,396 gallons of chloride-impacted groundwater have been pumped from RW-2 (Table 3); this value reflects the total recorded at the meter on June 20, 2017 when the wires were found to have been chewed through by cattle. PAB staff is aware of the issue with cattle in the area and are working with DBS&A on a solution to prevent future damage to the meter wiring. Historical pumping of recovery well RW-2 at flow rates of 2.5 to 4.3 gpm produced little drawdown in the brine well area. However, after increasing the average pumping rate to 68 gpm after the second quarter 2015 monitoring event (Table 3), a cone of depression became evident, thereby improving hydraulic containment and removal of the chloride plume. DBS&A is working with PAB to optimize the pumping rate in the brine well area.

Due to damage of the RW-2 totalizer, the average pumping rate at RW-2 during this reporting period was estimated to be approximately 12.5 gpm based on PAB fresh water injection volumes. A cone of depression was not observed during this monitoring event (Figure 3); RW-2 was not pumping at the time water level measurements were recorded.

The chloride plume remains undefined downgradient and cross-gradient to the north of the recovery well (RW-2). Since April 2009, chloride concentrations in the northernmost cross-gradient well (DBS-6) have fluctuated between 240 and 410 mg/L. Since February 2008, chloride concentrations in the downgradient well (MW-5) have fluctuated between 710 and 1,500 mg/L. The chloride concentration in monitor well MW-3, the well closest to the extraction well (RW-2), decreased by almost half between September and December 2015, but has been showing a slight rebound since that time (Table 2).

5.3 Facility and System Maintenance

On June 13, 2016 the pump at RW-2 was damaged during a lightning storm. Operations manager Jim Sayre promptly replaced the pump on June 15, 2016. The pump at FWS-2, upgradient from RW-2 (Figure 1), was also damaged and subsequently replaced.



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On June 20, 2017, DBS&A field staff discovered that the wire from the pump at RW-2 to the totalizer had been chewed through by cattle sometime between the fourth quarter 2016 monitoring event and the first semiannual 2017 monitoring event. The totalizer was not recording while the pump was active. DBS&A contacted the Salty Dog facility manager to inform him of the issue. DBS&A is working with Salty PAB to develop a solution to prevent future damage. DBS&A staff are working with PAB site management to replace the totalizer as soon as possible.

5.4 Future Extraction System Operation

Pumping of the fresh water supply well (FWS-1) has lowered groundwater levels at RW-1, precluding groundwater extraction at this well. Pumping of FWS-1 provides hydraulic containment and removal of the chloride plume. Future monitoring data will be used to evaluate the effectiveness of FWS-1 in providing hydraulic containment and removal of chloride-impacted groundwater in the former brine pond area.

Pumping of extraction well RW-2 will continue. Increased pumping at RW-2 in 2015 provided improved hydraulic containment and removal of the chloride plume in the brine well area; however, the average flow rates during pumping have been inconsistent and pumping has been irregular. OCD has indicated that greater hydraulic containment is required. DBS&A will work with PAB in 2017 to develop a plan for enhanced groundwater extraction in the brine well area to optimize hydraulic containment and removal of the chloride plume.

6. Recommendations

Based on the current groundwater monitoring results, site O&M activities, and discussions with OCD, DBS&A has the following recommendations:

- Continue groundwater extraction at FWS-1 to provide hydraulic containment and removal of the chloride plume in the former brine pond area.
- Work with PAB to optimize groundwater extraction at RW-2 to provide better hydraulic containment and removal of the chloride plume in the brine well area.



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In addition, DBS&A and PAB will complete the following activities at the site in 2017 to meet OCD requests and requirements of DP BW-8:

- Conduct semiannual groundwater monitoring and O&M of the extraction systems at the site.
- Install one new downgradient monitor well approximately 300 feet southeast of MW-5 in the brine well area to determine the downgradient extent of chloride-impacted groundwater.
- Install survey monuments and establish a program to monitor for potential surface subsidence. Four survey monuments will be installed near the brine well. One survey monument will be placed about 50 feet from the brine well; the other three monuments will be placed about 200 feet from the brine well. The 2009 sonar survey identified a maximum radius of a solution cavern along an azimuth of 200 degrees. Two of the proposed survey monuments will be positioned along this direction. A fifth monument, consisting of a metal tab or steel plate, will be welded onto the brine wellhead.
- A baseline survey will be conducted after installation of the new monitor well and five survey monuments to establish elevations and x-y coordinates relative to state plane coordinates. The monuments will then be surveyed in conjunction with semiannual groundwater monitoring to monitor for potential subsidence.
- Prepare a 2017 Annual Class III Well report for submittal to OCD.

Figures

Explanation

S:PROJECTS/ES08.0118.01_SALTY_DOG_INC/GISMXDS/REPORT\2017_2Q\FIG01_SITE_LOCATION_MAP.MXD

Note: AST = Aboveground storage tank Source: National Agriculture Imagery Program (NAIP), May 10, 2014

- Fresh water supply well
- Monitor well
- Recovery well
- Well destroyed

SALTY DOG BRINE STATION
Site Location Map

3751.14 Groundwater elevation, ft msl

Fresh water supply well

Monitor well
 Potentiometric surface elevation contour (ft msl),

Recovery well dashed where inferred

SALTY DOG BRINE STATION

Former Brine Pond Area
Potentiometric Surface Elevations
June 2017



S:PROJECTS/ES08.0118.01_SALTY_DOG_INC/GIS/MXDS/REPORT\2017_2Q/FIG02_GWE_201706_BRINE_STATION.MXD

Daniel B. Stephens & Associates, Inc. JN ES08.0118.06

:\PROJECTS\ES08.0118.01_SALTY_DOG_INC\GIS\MXDS\REPORT\2017_2Q\FIG03_GWE_201706_BRINE_WELL.MXD

3745.34 Groundwater elevation, ft msl

Potentiometric surface elevation contour (ft msl), Monitor well

Recovery well Groundwater flow direction Fresh water supply well

SALTY DOG BRINE STATION

Playa Lake and Brine Well Area **Potentiometric Surface Elevations June 2017**



Daniel B. Stephens & Associates, Inc., 8/28/2017 JN ES08.0118.06

dashed where inferred

Explanation

DBS-5 Well designation

Chloride concentration (mg/L) 170

Monitor well

Recovery well

Red indicates concentration equal to or greater than the NMWQCC standard.

Source: National Agriculture Imagery Program (NAIP), May 10, 2014

SALTY DOG BRINE STATION

Former Brine Pond Area Chloride Concentrations in Groundwater June 2017



Daniel B. Stephens & Associates, Inc. JN ES08.0118.06

Explanation

S:PROJECTS/ES08.0118.01_SALTY_DOG_INC/GIS/MXDS/REPORT\2017_2Q\FIG05_CL_GW_201706_BRINE_WELL.MXD

DBS-8 Well designation

- 33 Chloride concentration (mg/L)
- Monitor well
- Recovery well

Red indicates concentration equal to or greater than the NMWQCC standard.

Source: National Agriculture Imagery Program (NAIP), May 10, 2014

SALTY DOG BRINE STATION

Playa Lake and Brine Well Area Chloride Concentrations in Groundwater June 2017



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8/24/2017

Stephens & Associates, Inc.

JN ES08.0118.06

Tables

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 1 of 7

	T			T	
Monitor Well	Screen Interval (ft bgs)	Top of Casing Elevation a (ft msl)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
DBS-1	56.0–76.0	3,817.09	4/08/2009	62.38	3,754.71
			5/11/2011	64.70	3,752.39
			10/04/2011	Well	destroyed
DBS-1R	58.0-78.0	3,817.00 b	4/30/2012	63.60	3,753.40
			9/10/2012	65.65	3,751.35
			6/23/2013	64.40	3,752.60
			1/09/2014	67.23	3,749.77
			4/07/2014	66.36	3,750.64
			3/20/2015	67.17	3,749.83
			7/01/2015	67.92	3,749.08
			9/29/2015	67.07	3,749.93
			12/16/2015	67.54	3,749.46
			3/22/2016	66.61	3,750.39
			6/08/2016	66.23	3,750.77
			9/13/2016	67.43	3,749.57
			12/01/2016	67.31	3,749.69
			6/20/2017	69.60	3,747.40
DBS-2	58.0–78.0	3,820.50	4/08/2009	65.45	3,755.05
			5/11/2011	66.80	3,753.70
			10/04/2011	65.87	3,754.63
			2/08/2012	65.96	3,754.54
			4/30/2012	66.26	3,754.24
			9/10/2012	67.45	3,753.05
			6/23/2013	67.03	3,753.47
			1/09/2014	69.08	3,751.42
			4/07/2014	68.67	3,751.83
			3/20/2015	69.32	3,751.18
			6/30/2015	69.29	3,751.21
			9/29/2015	69.41	3,751.09
			12/16/2015	69.71	3,750.79
			3/22/2016	69.13	3,751.37
			6/08/2016	68.91	3,751.59

 $^{^{\}rm a}_{\cdot}$ Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009.

ft btoc = Feet below top of casing ft bgs = Feet below ground surface

b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 2 of 7

Monitor Well	Screen Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
DBS-2 (cont.)	58.0–78.0	3,820.50	9/13/2016	69.76	3,750.74
			12/01/2016	69.73	3,750.77
			6/20/2017	71.33	3,749.17
DBS-3	56.0-76.72	3,816.66	4/08/2009	60.67	3,755.99
			5/11/2011	61.25	3,755.41
			10/04/2011	61.25	3,755.41
			2/08/2012	61.11	3,755.55
			4/30/2012	61.41	3,755.25
			9/10/2012	61.81	3,754.85
			6/23/2013	62.08	3,754.58
			1/09/2014	63.30	3,753.36
			4/07/2014	63.43	3,753.23
			3/20/2015	63.93	3,752.73
			6/30/2015	63.99	3,752.67
			9/29/2015	64.17	3,752.49
			12/16/2015	64.41	3,752.25
			3/22/2016	63.88	3,752.78
			6/08/2016	63.92	3,752.74
			9/13/2016	64.56	3,752.10
			12/01/2016	64.59	3,752.07
			6/20/2017	65.52	3,751.14
DBS-4	56.0–76.0	3,820.37	4/08/2009	66.27	3,754.10
			5/11/2011	67.23	3,753.14
			10/04/2011	66.67	3,753.70
			2/08/2012	66.76	3,753.61
			4/30/2012	67.02	3,753.35
			9/10/2012	67.78	3,752.59
			6/23/2013	67.70	3,752.67
			1/09/2014	69.37	3,751.00
			4/07/2014	69.23	3,751.14
			3/20/2015	69.81	3,750.56
			6/30/2015	69.85	3,750.52

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009. ^b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

ft btoc = Feet below top of casing ft bgs = Feet below ground surface

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 3 of 7

Monitor Well	Screen Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
DBS-4 (cont.)	56.0–76.0	3,820.37	9/29/2015	70.00	3,750.37
			12/16/2015	70.25	3,750.12
			3/22/2016	69.74	3,750.63
			6/08/2016	69.62	3,750.75
			9/13/2016	70.35	3,750.02
			12/01/2016	70.38	3,749.99
			6/20/2017	71.67	3,748.70
DBS-5	56.9–76.9	3,820.66	4/08/2009	62.99	3,757.67
			5/11/2011	63.45	3,757.21
			10/04/2011	63.41	3,757.25
			2/08/2012	63.46	3,757.20
			4/30/2012	63.70	3,756.96
			9/10/2012	63.92	3,756.74
			6/23/2013	64.30	3,756.36
			1/09/2014	65.28	3,755.38
			4/07/2014	65.48	3,755.18
			3/20/2015	65.9	3,754.76
			7/01/2015	66.18	3,754.48
			9/29/2015	66.25	3,754.41
			12/16/2015	66.47	3,754.19
			3/22/2016	66.08	3,754.58
			6/08/2016	66.16	3,754.50
			9/13/2016	66.64	3,754.02
			12/01/2016	66.72	3,753.94
			6/20/2017	67.60	3,753.06
DBS-6	56.7–76.7	3,812.65	4/07/2009	62.75	3,749.90
			5/11/2011	63.11	3,749.54
			10/04/2011	63.16	3,749.49
			2/08/2012	63.20	3,749.45
			4/30/2012	63.43	3,749.22
			9/10/2012	63.60	3,749.05

ft btoc = Feet below top of casing ft bgs = Feet below ground surface

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009. ^b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 4 of 7

Monitor Well	Screen Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
DBS-6 (cont.)	56.7–76.7	3,812.65	6/23/2013	63.74	3,748.91
, ,		.,.	1/09/2014	64.00	3,748.65
			4/07/2014	64.22	3,748.43
			3/19/2015	64.78	3,747.87
			7/01/2015	64.81	3,747.84
			9/29/2015	65.48	3,747.17
			12/16/2015	65.26	3,747.39
			3/22/2016	65.38	3,747.27
			6/08/2016	65.37	3,747.28
			9/13/2016	65.51	3,747.14
			12/01/2016	65.51	3,747.14
			6/20/2017	65.81	3,746.84
DBS-7	55.1–75.1	3,810.21	4/07/2009	61.74	3,748.47
DBS-8	55.2–75.2	3,810.70	4/07/2009	61.20	3,749.50
			5/11/2011	61.67	3,749.03
			10/04/2011	61.71	3,748.99
			2/08/2012	61.77	3,748.93
			4/30/2012	62.00	3,748.70
			9/10/2012	62.15	3,748.55
			6/23/2013	62.28	3,748.42
			1/09/2014	62.47	3,748.23
			4/07/2014	62.67	3,748.03
			3/19/2015	63.19	3,747.51
			6/30/2015	63.25	3,747.45
			9/29/2015	63.82	3,746.88
			12/16/2015	63.58	3,747.12
			3/22/2016	63.76	3,746.94
			6/08/2016	63.72	3,746.98
			9/13/2016	63.83	3,746.87
			12/01/2016	63.79	3,746.91
			6/20/2017	64.09	3,746.61

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009.

ft btoc = Feet below top of casing ft bgs = Feet below ground surface

b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 5 of 7

		Top of			
	Screen	Casing		Depth to	Groundwater
Monitor	Interval	Elevation a	Date	Water	Elevation
Well	(ft bgs)	(ft msl)	Measured	(ft btoc)	(ft msl)
DBS-9	48.0–68.0	3,806.26	4/08/2009	53.93	3,752.33
			5/11/2011	54.39	3,751.87
			10/04/2011	54.59	3,751.67
			2/08/2012	54.53	3,751.73
			4/30/2012	54.68	3,751.58
			9/10/2012	54.77	3,751.49
			6/23/2013	55.04	3,751.22
			1/09/2014	55.27	3,750.99
			4/07/2014	55.56	3,750.70
			3/19/2015	55.95	3,750.31
			7/01/2015	56.14	3,750.12
			9/29/2015	56.49	3,749.77
			12/16/2015	56.52	3,749.74
			3/22/2016	56.51	3,749.75
			6/08/2016	56.64	3,749.62
			9/13/2016	56.81	3,749.45
			12/01/2016	56.88	3,749.38
			6/20/2017	57.28	3,748.98
NW-1s	52.95–72.95	3,817.33	4/08/2009	62.35	3,754.98
NW-1m	99.31–119.31	3,817.35	4/08/2009	62.25	3,755.10
NW-1d	149.45–169.45	3,817.35	4/08/2009	62.04	3,755.31
NW-2s	53.35-73.35	3,812.50	4/08/2009	63.08	3,749.42
NW-2m	93.72-113.72	3,812.45	4/08/2009	63.27	3,749.18
NW-2d	126.87-146.87	3,812.46	4/08/2009	66.41	3,746.05
PMW-1	63–78	3,821.17	6/23/2008	67.51	3,753.66
			4/08/2009	65.97	3,755.20
			5/11/2011	68.70	3,752.47
			10/04/2011	66.95	3,754.22
			2/08/2012	66.69	3,754.48
			4/30/2012	67.27	3,753.90
			9/10/2012	69.77	3,751.40

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009.

ft btoc = Feet below top of casing ft bgs = Feet below ground surface

b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 6 of 7

Monitor Well	Screen Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
PMW-1 (cont.)	63–78	3,821.17	6/23/2013	68.40	3,752.77
			1/09/2014	71.24	3,749.93
			4/07/2014	69.97	3,751.20
			3/20/2015	70.78	3,750.39
			7/01/2015	71.41	3,749.76
			9/29/2015	70.76	3,750.41
			12/16/2015	71.03	3,750.14
			3/22/2016	70.30	3,750.87
			6/08/2016	69.65	3,751.52
			9/13/2016	71.08	3,750.09
			12/01/2016	70.97	3,750.20
			6/20/2017	73.06	3,748.11
MW-1	120–140	NA	6/23/2008	59.90	NA
MW-2	127–147	3,812.68	6/23/2008	61.42	3,751.26
			4/07/2009	61.65	3,751.03
MW-3	NA	3,812.05	6/23/2008	62.06	3,749.99
			4/07/2009	62.02	3,750.03
			5/11/2011	62.91	3,749.14
			10/04/2011	62.91	3,749.14
			2/08/2012	62.95	3,749.10
			4/30/2012	63.39	3,748.66
			9/10/2012	63.50	3,748.55
			6/23/2013	63.36	3,748.69
			1/09/2014	63.55	3,748.50
			4/07/2014	63.88	3,748.17
			3/19/2015	64.27	3,747.78
			7/01/2015	64.34	3,747.71
			9/29/2015	67.94	3,744.11
			12/16/2015	64.75	3,747.30
			3/22/2016	64.84	3,747.21
			6/08/2016	64.89	3,747.16

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009.

ft btoc = Feet below top of casing ft bgs = Feet below ground surface

b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.

Table 1. Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 7 of 7

Monitor Well	Screen Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
MW-3 (cont.)	NA	3,812.05	9/13/2016	66.33	3,745.72
			12/01/2016	66.66	3,745.39
			6/20/2017	65.56	3,746.49
MW-4	111–131	3,811.33	6/23/2008	62.12	3,749.21
			4/07/2009	62.51	3,748.82
MW-5	112–132	3,808.96	6/23/2008	60.60	3,748.36
			4/07/2009	60.79	3,748.17
			5/11/2011	61.17	3,747.79
			10/04/2011	61.72	3,747.24
			2/08/2012	61.23	3,747.73
			4/30/2012	61.50	3,747.46
			9/10/2012	61.65	3,747.31
			6/23/2013	61.75	3,747.21
			1/09/2014	61.90	3,747.06
			4/07/2014	62.18	3,746.78
			3/19/2015	62.96	3,746.00
			6/30/2015	62.71	3,746.25
			9/29/2015	63.92	3,745.04
			12/16/2015	63.02	3,745.94
			3/22/2016	63.14	3,745.82
			6/08/2016	63.47	3,745.49
			9/13/2016	63.66	3,745.30
			12/01/2016	63.70	3,745.26
			6/21/2017	63.62	3,745.34
MW-6	NA	3,810.17	6/23/2008	62.17	3,748.00
			4/07/2009	62.41	3,747.76

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009.

ft bgs = Feet below ground surface ft btoc = Feet below top of casing

^b Top of casing elevation surveyed by Pettigrew & Assoc. on June 13, 2012.



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 1 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
	WQCC Standard	250
DBS-1	4/08/2009	320
	5/12/2011	940
DD0 4D	10/04/2011	Well destroyed
DBS-1R	5/01/2012	3,000
	9/11/2012	3,200
	6/25/2013	3,300
	1/10/2014	1,000
	4/08/2014	1,700
	3/20/2015	1,200
	7/01/2015	860
	9/30/2015	670
	12/17/2015	760
	3/23/2016	560
	6/09/2016	570
	09/14/2016	360
	12/01/2016	360
	6/20/2017	320
DBS-2	4/08/2009	14
	5/12/2011	25
	10/05/2011	18
	2/09/2012	22
	5/01/2012	24
	9/11/2012	44
	6/25/2013	36
	1/10/2014	45
	4/08/2014	22
	3/20/2015	29
	6/30/2015	28
	9/30/2015	40
	12/17/2015	35
	3/23/2016	46

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 2 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
NA	IWQCC Standard	250
DBS-2 (cont.)	6/09/2016	41
(3.2.1)	9/14/2016	41
	12/02/2016	53
	6/20/2017	59
DBS-3	4/08/2009	36
	5/12/2011	35
	10/05/2011	34
	2/09/2012	34
	5/01/2012	33
	9/11/2012	34
	6/24/2013	32
	1/10/2014	34
	4/08/2014	32
	3/20/2015	35
	6/30/2015	35
	9/30/2015	34
	12/17/2015	34
	3/23/2016	36
	6/09/2016	35
	9/14/2016	37
	12/02/2016	37
	6/20/2017	39
DBS-4	4/08/2009	38
	5/12/2011	33
	10/05/2011	32
	2/09/2012	32
	5/01/2012	31
	9/11/2012	32
	6/25/2013	31
	1/10/2014	32
	4/08/2014	30

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 3 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
N	MWQCC Standard	250
DBS-4 (cont.)	3/20/2015	33
, ,	6/30/2015	31
	9/30/2015	33
	12/17/2015	35
	3/23/2016	38
	6/09/2016	35
	9/14/2016	37
	12/02/2016	41
	6/20/2017	35
DBS-5	4/08/2009	65
	5/12/2011	140
	10/05/2011	140
	2/09/2012	140
	4/30/2012	150
	9/11/2012	160
	6/24/2013	160
	1/10/2014	180
	4/08/2014	160
	3/20/2015	140
	7/01/2015	140
	9/30/2015	150
	12/17/2015	160
	3/23/2016	150
	6/09/2016	150
	9/14/2016	170
	12/02/2016	170
	6/20/2017	170
DBS-6	4/07/2009	380
	5/12/2011	410
	10/05/2011	400
	2/09/2012	380

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 4 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
NMWQCC Standard		250
DBS-6 (cont.)	4/30/2012	400
DDG-0 (COIIC.)	9/11/2012	390
	6/24/2013	340
	1/10/2014	390
	4/07/2014	400
	3/19/2015	370
	7/01/2015	360
	9/30/2015	370
	12/17/2015	380
	3/23/2016	310
	6/09/2016	300
	9/14/2016	290
	12/02/2016	300
	6/21/2017	240
DBS-7	4/07/2008	570
DBS-8	4/07/2009	58
	5/12/2011	36
	10/05/2011	140
	2/09/2012	41
	4/30/2012	41
	9/10/2012	42
	6/24/2013	45
	1/09/2014	38
	4/07/2014	36
	3/19/2015	36
	7/01/2015	34
	9/30/2015	35
	12/17/2015	33
	3/23/2016	35
	6/09/2016	34
	9/14/2016	34

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 5 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
NMWQCC Standard		250
DBS-8 (cont.)	12/02/2016	33
,	6/21/2017	33
DBS-9	4/08/2009	210
	5/12/2011	600
	10/05/2011	440
	2/09/2012	290
	4/30/2012	330
	9/11/2012	320
	6/24/2013	200
	1/10/2014	170
	4/07/2014	220
	3/19/2015	260
	7/01/2015	210
	9/30/2015	260
	12/17/2015	230
	3/23/2016	200
	6/09/2016	190
	9/14/2016	190
	12/02/2016	180
	6/21/2017	200
NW-1s	4/08/2009	630
NW-1m	4/08/2009	57
NW-1d	4/08/2009	38
NW-2s	4/08/2009	410
NW-2m	4/08/2009	570
NW-2d	4/08/2009	4,700
PMW-1	2/27/2008	9,500 ^b
	5/30/2008	8,600 ^b
	6/23/2008	12,700
	4/08/2009	11,000
	5/12/2011	13,000

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 6 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
NMWQCC Standard		250
PMW-1 (cont.)	10/05/2011	12,000
Pivivv-1 (cont.)	2/09/2012	12,000
	5/01/2012	12,000
	9/11/2012	14,000
	6/25/2013	14,000
	1/10/2014	11,000
	4/08/2014	12,000
	3/20/2015	8,500
	7/01/2015	8,600
	9/30/2015	9,700
	12/17/2015	9,800
	3/23/2016	8,200
	6/09/2016	8,500
	9/14/2016	9,300
	12/01/2016	8,300
	6/20/2017	13,000
MW-1	5/30/2008	75 ^b
	6/23/2008	243
MW-2	2/27/2008	120 ^b
	5/30/2008	80 ^b
	6/23/2008	1,480
	4/07/2009	1,200
MW-3	2/27/2008	348 ^b
	5/30/2008	360 b
	6/23/2008	1,090
	4/07/2009	17,000
	5/12/2011	16,000
	10/05/2011	14,000
	2/09/2012	15,000
	4/30/2012	14,000
	9/10/2012	16,000

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 7 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
NA	IWQCC Standard	250
MW-3 (cont.)	6/24/2013	12,000
	1/10/2014	10,000
	4/07/2014	12,000
	3/19/2015	9,700
	7/01/2015	10,000
	9/30/2015	9,600
	12/17/2015	5,100
	3/23/2016	8,200
	6/09/2016	9,400
	9/14/2016	9,100
	12/02/2016	11,000
	6/21/2017	10,000
MW-4	2/27/2008	476 ^b
	5/30/2008	512 [♭]
	6/23/2008	5,730
	4/07/2009	6,600
MW-5	2/27/2008	1,280 ^b
	5/30/2008	1,220 ^b
	6/23/2008	1,260
	4/07/2009	1,300
	5/12/2011	1,500
	10/05/2011	1,500
	2/09/2012	1,500
	4/30/2012	1,400
	9/10/2012	1,500
	6/24/2013	1,300
	1/10/2014	1,300
	4/07/2014	1,300
	3/19/2015	1,200
	7/01/2015	1,200
	9/30/2015	1,000

^a All samples analyzed using EPA method 300.0, unless otherwise noted.

b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter

Table 2. Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 8 of 8

Monitor Well	Date	Chloride Concentration (mg/L) ^a
NM	IWQCC Standard	250
MW-5 (cont.)	12/17/2015	1,000
	3/23/2016	980
	6/09/2016	970
	9/14/2016	1,000
	12/02/2016	710
	6/21/2017	870
MW-6	2/27/2008	32 ^b
	5/30/2008	36 ^b
	6/23/2008	31.4
	4/07/2009	25
Ranch Headquarters Supply Well	6/23/2008	35.4
Brine Station Fresh	2/27/2008	630 ^b
Water Supply Well	5/30/2008	590 ^b
	6/23/2008	650

Bold indicates that value exceeds the applicable standard.

 $^{^{\}rm a}$ All samples analyzed using EPA method 300.0, unless otherwise noted.

b Samples analyzed using Standard Method 4500-Cl B. mg/L = Milligrams per liter



Table 3. Cumulative Extracted Groundwater Volumes Salty Dog Brine Station, Lea County, New Mexico

Recovery		Days of	Average Flow Rate	Extracted Volume
Well	Date	Operation	(gpm)	(gallons)
RW-1	4/07/2012	Gro	undwater extractio	n started
	5/01/2012	24	2.1	73,740
	9/11/2012	154	2.9	636,237
	6/25/2013	441	4.1	2,599,392
	11/15/2013 a	585	3.6	3,060,181
	3/20/2015	1,075	2.4	3,668,511
	6/30/2015 b	1,167	_	3,668,511
	9/30/2015	1,259	_	3,668,511
FWS-1	12/17/2015	_	_	1,232,787
	3/22/2016	359	12.8	3,011,469
	6/08/2016	437	33.9	6,818,179
	9/13/2016	534	5.4	7,578,404
	12/02/2016	614	39.7	12,149,596
	6/20/2017	814	32.7	21,571,233
RW-2	4/06/2012	Gro	oundwater extractio	n started
	5/01/2012	25	2.5	91,450
	9/11/2012	158	4.3	963,789
	12/14/2012 ^c	252	3.9	1,406,748
	6/25/2013 ^d	_	_	_
	9/21/2013 ^e	335	2.9	1,407,005
	9/30/2015 ^f	1,074	68 ^f	7,313,515
	12/17/2015	1,152	44	12,266,210
	3/22/2016	1,248	32	16,657,635
	6/08/2016	1,326	9.0	17,661,576
	9/13/2016	1,423	5.7	18,453,822
	12/01/2016 b	_	_	18,453,447
	6/20/2017 ^g	_	_	18,461,096

^a Pump went down in RW-1 on approximately November 15, 2013.

b Meter appears to not be functioning correctly, but the pumping well is functioning.

Pump in RW-2 went down on December 14, 2012 due to a blown inner shaft motor seal.

d New pump installed in RW-2 and started on June 25, 2013.

e Meter and pump were removed from RW-2 on approximately September 21, 2013 by facility manager to install a new, larger-capacity pump.

Meter reinstalled and pumping increased after the June 30 and July 1, 2015 monitoring event; flowrate assumes 60 days of operation (August 1 through September 30, 2015) based on personal communication with Jim Sayre (PAB).

⁹ Meter was inoperable at time of sampling on 6/20/17; wires chewed through by cattle. gpm = Gallons per minute

Appendix A

Laboratory Analytical

Report



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

July 17, 2017

John Ayarbe

Daniel B. Stephens & Assoc. 6020 Academy NE Suite 100 Albuquerque, NM 87109

TEL: (505) 822-9400 FAX (505) 822-8877

RE: Salty Dog OrderNo.: 1706B95

Dear John Ayarbe:

Hall Environmental Analysis Laboratory received 13 sample(s) on 6/21/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: PMW-1

Project: Salty Dog
 Collection Date: 6/20/2017 2:30:00 PM

 Lab ID: 1706B95-001
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: MRA
Chloride	13000	500 * mg/L	1E 7/3/2017 7:36:52 PM	R43998

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 17
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1706B95**

Date Reported: 7/17/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: DBS-1R

 Project:
 Salty Dog
 Collection Date: 6/20/2017 3:17:00 PM

 Lab ID:
 1706B95-002
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: MRA
Chloride	320	50 * mg/L	100 6/29/2017 1:02:14 PN	1 R43888

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
		,,,,		

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-2

 Project:
 Salty Dog
 Collection Date: 6/20/2017 3:50:00 PM

 Lab ID:
 1706B95-003
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	59	5.0	mg/L	10 6/29/2017 1:14:38 PN	/ R43888

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-4

 Project:
 Salty Dog
 Collection Date: 6/20/2017 4:15:00 PM

 Lab ID:
 1706B95-004
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	35	5.0	mg/L	10 6/29/2017 1:39:27 PM	1 R43888

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 17
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-5

 Project:
 Salty Dog
 Collection Date: 6/20/2017 4:50:00 PM

 Lab ID:
 1706B95-005
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	170	5.0	mg/L	10 6/29/2017 2:04:17 PM	/ R43888

difiers:	Analyte detected in the associated Method Blank
	Value above quantitation range
	Analyte detected below quantitation limits Page 5 of 17
]	Sample pH Not In Range
F	Reporting Detection Limit
	Sample container temperature is out of limit as specified
-	1 0

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-3

 Project:
 Salty Dog
 Collection Date: 6/20/2017 5:15:00 PM

 Lab ID:
 1706B95-006
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	39	5.0	mg/L	10 6/29/2017 2:53:56 PM	M R43888

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 17
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-9

Project: Salty Dog
 Collection Date: 6/21/2017 7:40:00 AM

 Lab ID: 1706B95-007
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	200	50	mg/L	100 6/29/2017 3:31:10 PM	M R43888

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706B95**

Date Reported: 7/17/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-6

Project: Salty Dog
 Collection Date: 6/21/2017 8:10:00 AM

 Lab ID: 1706B95-008
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	240	50	mg/L	100 6/29/2017 3:55:59 PM	M R43888

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-8

Project: Salty Dog
 Collection Date: 6/21/2017 9:05:00 AM

 Lab ID: 1706B95-009
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	33	5.0	mg/L	10 6/29/2017 4:08:23 PM	M R43888

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-3

Project: Salty Dog
 Collection Date: 6/21/2017 10:55:00 AM

 Lab ID: 1706B95-010
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: MRA
Chloride	10000	500 * mg/L	1E 7/3/2017 7:49:16 PM	R43998

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 10 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1706B95**

Date Reported: 7/17/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-5

Project: Salty Dog
 Collection Date: 6/21/2017 10:15:00 AM

 Lab ID: 1706B95-011
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: MRA
Chloride	870	50 * mg/L	100 6/29/2017 6:00:04 PM	/I R43888

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 11 of 17
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1706B95**Date Reported: **7/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Injection

Project: Salty Dog
 Collection Date: 6/21/2017 11:20:00 AM

 Lab ID: 1706B95-012
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL (ual	Units	DF	Date Analyzed	Batch
SPECIFIC GRAVITY						Analys	st: JRR
Specific Gravity	0.9944	0			1	6/28/2017 1:27:00 PM	R43862
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	270	50	*	mg/L	100	6/29/2017 6:24:54 PM	R43888
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS					Analys	st: KS
Total Dissolved Solids	773	20.0	*	mg/L	1	6/25/2017 1:47:00 PM	32462
SM4500-H+B: PH						Analys	t: JRR
рН	7.93		Н	pH units	1	6/27/2017 1:13:43 PM	R43848

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 12 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical ReportLab Order **1706B95**

Date Reported: 7/17/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Brine

Project: Salty Dog
 Collection Date: 6/21/2017 11:15:00 AM

 Lab ID: 1706B95-013
 Matrix: AQUEOUS
 Received Date: 6/21/2017 4:29:00 PM

Analyses	Result	PQL Q	Qual	Units	DF	Date Analyzed	Batch
SPECIFIC GRAVITY						Analys	t: JRR
Specific Gravity	1.200	0			1	6/28/2017 1:27:00 PM	R43862
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	180000	10000	*	mg/L	2E	6/29/2017 6:49:43 PM	R43888
SM2540C MOD: TOTAL DISSOLVE	SOLIDS					Analys	t: KS
Total Dissolved Solids	324000	2000	*D	mg/L	1	6/25/2017 1:47:00 PM	32462
SM4500-H+B: PH						Analys	t: JRR
рН	7.57		Н	pH units	1	6/27/2017 1:18:06 PM	R43848
EPA METHOD 200.7: METALS						Analys	t: pmf
Sodium	100000	2000		mg/L	2E	7/5/2017 5:41:32 PM	A44011

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 13 of 17
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706B95

17-Jul-17

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-A SampType: MBLK TestCode: EPA Method 200.7: Metals

Client ID: PBW Batch ID: A44011 RunNo: 44011

Prep Date: Analysis Date: 7/5/2017 SeqNo: 1387942 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Sodium ND 1.0

Sample ID LCSLL-A SampType: LCSLL TestCode: EPA Method 200.7: Metals

Client ID: BatchQC Batch ID: A44011 RunNo: 44011

Units: mg/L Prep Date: Analysis Date: 7/5/2017 SeqNo: 1387943

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Sodium ND 1.0 0.5000 0 98.2 150

Sample ID LCS-A SampType: LCS TestCode: EPA Method 200.7: Metals

Client ID: LCSW Batch ID: A44011 RunNo: 44011

Prep Date: Analysis Date: 7/5/2017 SeqNo: 1387944 Units: mg/L

%REC %RPD **RPDLimit** Result SPK value SPK Ref Val HighLimit Qual Analyte LowLimit

Sodium 49 1.0 0 97.0 85

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

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В Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory, Inc.

4.7

WO#: **1706B95**

17-Jul-17

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Chloride

Sample ID MB SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R43888 RunNo: 43888

Prep Date: Analysis Date: 6/29/2017 SeqNo: 1383528 Units: mg/L

5.000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID LCS SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R43888 RunNo: 43888 Units: mg/L Prep Date: Analysis Date: 6/29/2017 SeqNo: 1383529 SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual

0

94.9

110

Sample ID MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: R43998 RunNo: 43998 Prep Date: Analysis Date: 7/3/2017 SeqNo: 1387038 Units: mg/L SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result **PQL** HighLimit %RPD Qual

Chloride ND 0.50

Sample ID LCS SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R43998 RunNo: 43998

0.50

Prep Date: Analysis Date: 7/3/2017 SeqNo: 1387039 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 4.8 0.50 5.000 0 95.8 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

1 IIN I D

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 15 of 17

Hall Environmental Analysis Laboratory, Inc.

0.9947

WO#: **1706B95**

0.0302

20

17-Jul-17

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Specific Gravity

Sample ID 1706B95-012ADUP SampType: DUP TestCode: Specific Gravity

Client ID: Injection Batch ID: R43862 RunNo: 43862

0

Prep Date: Analysis Date: 6/28/2017 SeqNo: 1382491 Units:

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 16 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706B95**

17-Jul-17

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-32462 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 32462 RunNo: 43772

Prep Date: 6/23/2017 Analysis Date: 6/25/2017 SeqNo: 1378753 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-32462 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 32462 RunNo: 43772

Prep Date: 6/23/2017 Analysis Date: 6/25/2017 SeqNo: 1378754 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 987 20.0 1000 0 98.7 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 17 of 17



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

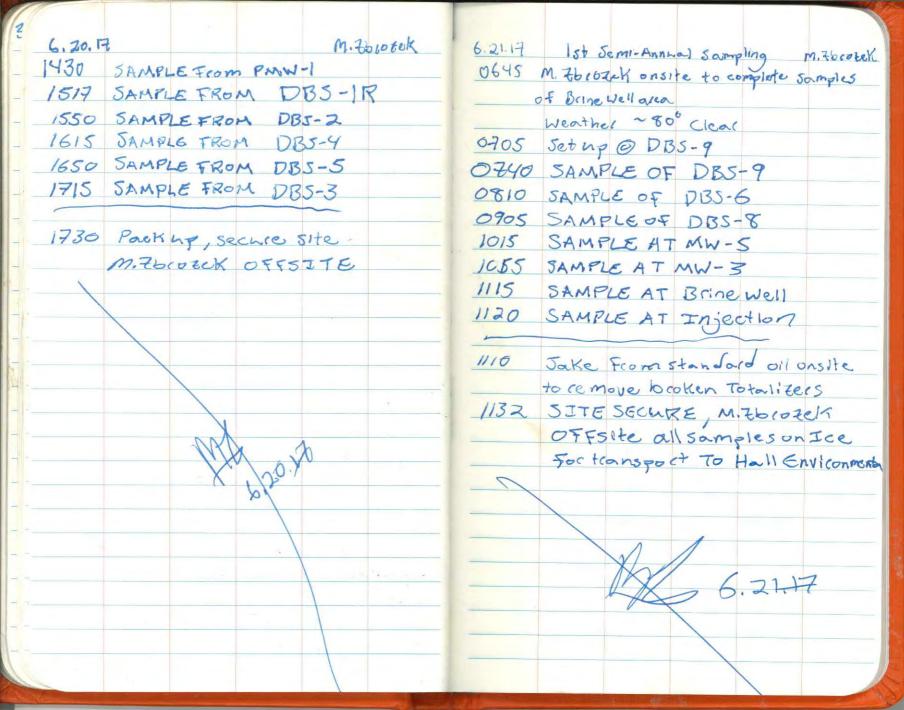
Sample Log-In Check List

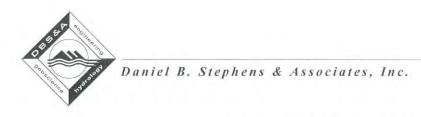
Client Name:	DBS	Work Order Number:	1706B95		RcptNo:	1
Received By:	Erin Melendrez	6/21/2017 4:29:00 PM		une.	,	
Completed By:	Erin Melendrez	6/22/2017 8:33:59 AM		une une	-	
Reviewed By:	az	6/22/17			•	
Chain of Cu	stody					
1. Custody se	eals intact on sample bot	tles?	Yes 🗌	No \square	Not Present	
2. Is Chain of	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was th	ne sample delivered?		Client			
<u>Log In</u>						
4. Was an att	tempt made to cool the s	amples?	Yes 🗹	No 🗆	na 🗆	
5. Were all sa	imples received at a tem	perature of >0° C to 6.0°C	Yes 🗸	No 🗆	na 🗆	
6. Sample(s)	in proper container(s)?		Yes 🗸	No 🗌		
7. Sufficient s	ample volume for indicat	ed test(s)?	Yes 🗸	No 🗌		
8. Are sample	s (except VOA and ONG	6) properly preserved?	Yes 🔽	No 🗆		
9. Was prese	rvative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
10. VOA vials h	nave zero headspace?		Yes	No 🗆	No VOA Vials 🗹	
11. Were any	sample containers receiv	red broken?	Yes 🗌	No 🗹	# of preserved	
12. Does paper	work match bottle labels	?	Yes 🗸	No 🗆	bottles checked for pH:	
	epancies on chain of cus	• ,	G	\Box	(<≱ o Adjusted?	r >12 unless noted)
	s correctly identified on (Yes ⊻	No □	Adjusted !	_/ V
	hat analyses were reque		Yes 🗹	No ∐	Checked by:	ℓ_{o}
	lding times able to be ma customer for authorizat		Yes 🗸	No 🗀		
Special Hand	dling (if applicable	1				
	notified of all discrepance	-	Yes 🗌	No 🗆	NA 🗹	
Perso	n Notified:	Date				:
By W	hom:	Via:	eMail 🗌	Phone Fax	n Person	
Rega	rding:				Committee of the second sections of the second sections of the second section	
Client	: Instructions:		***************************************	***************************************		
17. Additional	remarks:					•
18. <u>Cooler Inf</u>						
Cooler N			Seal Date	Signed By		
Į1	2.8 Good	Not Present				

	01 01	ustody Record	Turn-Around	Time:				4			_								
BS	8A		Standard	□ Rush			100	_		ALL									,
	THE REAL PROPERTY.		Project Name	9:															
ddress:	6000	Academy DD NE	SAL	TY DOG			400	11 LI								100			
		ACOUNT RUITE	Project #:	. ()00	V.	1							or seem						
المراح	100		FSDR	0118 06				1. 500	0-040	_		_			111111111111	35) (SM		1
ckage:	TAYAI		Project Mana	iger:		(8021)	as only)	/ MRO)		(S)		O4,SO ₄)	CB's				Har		
		☐ Level 4 (Full Validation)		ANSC		B's	9) +	8)2,P(32 P				=		
tion	□ Oth	er	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	TX Yes	FI No	¥.	ם	0	8.1)	8270		N. S	/ 808		2		S	2	S
Гуре) _						BE+	H +	(GR	d 41		tals	8	ides	2	9	8	3	3	δ.
Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MT	BTEX + MT	TPH 8015B	TPH (Metho	PAH's (8310	RCRA 8 Me	Anions (FC	8081 Pestic	8260B (VO/	8270 (Semi-	Chlor	TUS, 520	Na 500	Air Bubbles (Y or N)
430	6W	PMW-1	17014	none	73377223							V	-	-	-				
	1		1	1	-007							1							
					-003							1							
					-004														
- 1					-005							/							
					-006							~							
					-007							~					,		
					-008							/							
		10.00			-009							1							
1		MW-3			200 200							~							
	9	MW-5			-011							V							
120		INJECTION	27014	None HWO	-012	-				-	-	5					Y	/	-
The state of the s	ax#: (c) ax#	Idress: 6020 ax#: TAYAI ckage: rd ion Oth ype) Fime Matrix 430 6W 517 550 715 740 905 035	Academy RD NE Livel 100 ax#: TAYARBEDDBSTEPHEUS.co ckage: rd	Idress: GODO ACADEMY RD NE LUTE 100 AX#: DAYARBEODBSTEPHENS.com Project Manackage: rd	Academy RD NE SALTY DOE SALTY DOE Project #: ESOB.0118.06 ax#: OAYARBEODBSTEPHENS.com Project Manager: ckage: rd	Idress: Go20 Academy RD NE	Idress: 6020 Academy RD NE SALTY DOG	Idress: 6020 Academy RD NE	Idress: Go20 Academy RD NE	Idress: 6020 Academy RD NE	Address: Goad Academy RD NE	Matrix Sample Request D Container Type Matrix Sample Request D Container Type Matrix Sample Request D DBS-1R DBS-1R	A A A A A A A A A A						

Appendix B Field Notes

2	
6.20,17 M. Zbroeck IST Seml-ANNWAL	
1200 M. Ebcosell Onsite for semi-annual	cont Publed clear on totalizer
Sampling.	Status not pumping, widnes in
Weather ~ 950 light humidity	discognice Totalized to not connected to
- Calm.	pump.
1205 Reconn, no apparent development	
- Dear sight	1235 Return toganging wells.
1210 Begin Tagging WL	1250 Photos @ MW-Z pump
_ WELLIDY DTW TD Xotes	Totalizer on ground, wires chewed
_ DBS-IR 69.60 74.42	619. 2 bole 0.0 bb/dar
DB5-2 71.33 75.35	Status Lucieal.
DBS-3 65.52 74.76	1255 Visit Brine Well
DBS-4 71.67 78.82	Status pumping - Totalizer
DBS-5 67.60 75.38	1160691661
DBS-6 65.81 76.02	- Rate between 273-306 bbl/day
DBS-8 64.09 69.91	~ 400 ps J See photos
DBS-9 57.28 67.55 -NEEDS J-PI-9	1302 Grage Wells DBS-9
MW-3 65.56 147.13	1330 FWS-1 Totalizer.
MW-5 63.62 128.78 Hornets 6.21.17	24324.7 bbl Pumping
PMW-1 73.06 77.73	2907 BPD See Photos
	1335 Grage PMW-1
1220 - LARGE Hornet's nest observed	CALIBRATEYSI
6 MW-5 - LEFT GAP OPEN, WILL	pH 10 10.01 Temp °C 36.3°C
Return 6,21,17 to gange	4 4.00 36.8%
1225 Photos @ Recovery Well RW-2	7 6.98 36.8°C
Totalizer = 4060558 661	5pc 1413 year 1413 Temp = 37.1°C
0.0 BBL/Dar -> cont.	ORR diffigult calibration 210mV



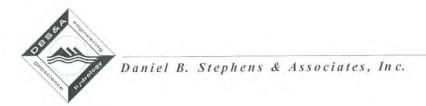


GROUNDWATER ELEVATION DATA SHEET

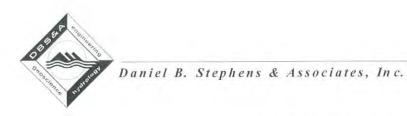
Project Name: Salty Dog	Sampler: M. Zbrozek	
Project #: <u>ES08.0118.06</u>	SampleDate: 06.20.2017	
Project Manager: John Ayarbe	Sheet # 1 of 1	

Well ID	Depth to NAPL	Depth to Water	Total Depth	Comments: (well dia., sampled, condition)
DBS-1R		69.60	74.42	
DBS-2		71.33	75.35	
DBS-3		65.52	74.76	
DBS-4		71.67	78.82	
DBS-5		67.60	75.38	
DBS-6		65.81	76.02	
DBS-7		64.09 nm	6	WL only
DBS-8		64.09	69.91	
DBS-9		57.28	67.55	Replace J-plng
MW-3		65.56	147.13	
MW-4		NM		WL only
MW-5		63.62	126.78	WL only
MW-6		NM		WL only
PMW-1		73.06	77.73	70
NW-1		NM		WL only

annenes.	



me: Salty I	Dog	S	ampler: M. Z	brozek	
					7
				0.0	
/IVV-1		_			
eter:	2"	_(inches) Hei	ght of Water	Column: 4	67 (feet)
APL:	(feet btoc) Casing	g Volume:	0.747	(gal)
		feet btoc) Purge	Volume:	2.24	(gal)
	3.0				
olume (SCH 4	40 PVC): 2.0" IE				17 gal/ft
рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
6.24	25.3	25305	-229.4	7.57	Hazy
	22.1	25224	-264.3	5.46	
	21.0	37266	-259.6	5.73	
	21.4	25767	-270.7	6.30	Hazr
6.79.	21.0	25660	-274.6	5.92	
escription: _^	1 poly				
	ES08.0118 nager: Joh //W-1 eter: //ater: //olume (SCH // ater Parame pH 6.24 6.67 6.68 6.26 6.77	eter:(** APL:(** // Ater:	ES08.0118.06 nager: John Ayarbe NW-1 eter: 2" (inches) Hei APL: (feet btoc) Casing Vater: 73.06 (feet btoc) Purge th of Well: 77.73 (feet) Pur Volume (SCH 40 PVC): 2.0" ID casing = 0.16 gal/finater Parameters: Temp (°F) Conductivity (µS/cm) 6.24 25.3 25305 6.67 22.1 25224 6.68 21.0 37266 6.26 21.4 25767 6.77. 21.0 25660	Sample Date: Sample Date: Sample Date: Sample Time: Sam	Sample Date: 06,21.201 Sample Date: 06,21.201 Sample Time: 1/30



	GR	ROUNDWA	TER MONITOR	ING DATA SH	IEET	
Project Nar	me: Salty D	og		Sampler: M. Z	Zbrozek	
	ES08.0118			Sample Date:	06.21.201	7
	nager: Johr			Sample Time:		
Well #: DB	3S-1R					
Well Diame	eter:2	2"	(inches) He	eight of Water	Column:	4.82 (feet)
			(feet btoc) Casi		1	
			(feet btoc) Purg			
			(feet) Pu			
	olume (SCH 4		ID casing = 0.16 ga	I/ft; 4.0" = 0.65 ga	al/ft; 6.0" = 1.4	·7 gal/ft
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
Initial	7.67	19.6	1092	-221.2	8.54	Hazy
1	7.50	19.3	961	-226.5	8.01	
4.5						
1.5	7.48	19.2	1070	-225.7	7.86	
1.5 2	7.48	19.1	1070	-225.7 -224.1	7.86	
2	7.44	19.1	1032	-224.1	7.86	
2.5	7.49	19.1	1032	-224.1 -222.5	7.86	
2 2.5 3	7.49	19.1	1032	-224.1 -222.5	7.86	
2 2.5 3 3.5	7.49	19.1	1032	-224.1 -222.5	7.86	
2 2.5 3 3.5 4	7.49	19.1	1032	-224.1 -222.5	7.86	

Physical Observations: Hazy

Analytical Method(s): Chloride

Sample Date: Sample Time: eight of Water ng Volume: e Volume: //rrge Method: //ft; 4.0" = 0.65 ga	Column:	₹ 0 ⋧(feet (gal) (gal)
eight of Watering Volume:	7550 Column:	(feet) (gal) (gal) (gal) (gal/ft
ng Volume:	D. 6 9 1. 93 Grab al/ft; 6.0" = 1.4	(gal) (gal) 17 gal/ft Turbidity
ng Volume:	D. 6 9 1. 93 Grab al/ft; 6.0" = 1.4	(gal) (gal) 17 gal/ft Turbidity
e Volume:/ irge Method: _ /ft; 4.0" = 0.65 ga	Orab al/ft; 6.0" = 1.4	(gal) 47 gal/ft Turbidity
orge Method: _ /ft; 4.0" = 0.65 ga	Grab al/ft; 6.0" = 1.4 D.O.	17 gal/ft Turbidity
orge Method: _ /ft; 4.0" = 0.65 ga	Grab al/ft; 6.0" = 1.4 D.O.	Turbidity
/ft; 4.0" = 0.65 g;	al/ft; 6.0" = 1.4	Turbidity
2 4 5 6 6 6		
-189.4	6.52	Hazy
-163.5	6.40	
		-
-176.3	6.19	HOZY
-A6.4	6.06	
-175.0	6.11	
	-A6.4	-A6.4 6.06

Analytical Method(s): Chloride

Project #: ES08.0118.06 Sample Date: 06.21.2017 Project Manager: John Ayarbe Sample Time: 1615 Well #: DBS-4 Well Diameter: 2" (inches) Height of Water Column: 7.15 (feet btoc) Casing Volume: 1.19 (graph to Water: 71.67 (feet btoc) Purge Volume: 3.93 (graph Total Depth of Well: 78.82 (feet) Purge Method: Graph Gra
Project Manager: John Ayarbe Sample Time:
Well Diameter: 2" (inches) Height of Water Column: 7.15 (feet btoc) (feet btoc) Casing Volume: 1.17 (geometric displayed) Depth to Water: 71.67 (feet btoc) Purge Volume: 3.93 (geometric displayed)
Depth to NAPL: (feet btoc) Casing Volume: (get btoc) Purge Volume:
Depth to Water: 71.67 (feet btoc) Purge Volume: 3. 93 (g
Total Depth of Well: 78.82 (feet) Purge Method: Grab
Note: One casing volume (SCH 40 PVC): 2.0" ID casing = 0.16 gal/ft; 4.0" = 0.65 gal/ft; 6.0" = 1.47 gal/ft Groundwater Parameters:
Casing Volume pH Temp Conductivity ORP D.O. Turbidit (vF) (µS/cm) (mv) (mg/L) (NTU)
Initial 6.97 25.2 498.3 -196.4 8.31 Hazy &
1 7.12 20.3 490.3 -203.5 8.16
1.5 7.20 19.6 480.8 -204.0 7.84 HARYT
2 7.21 19.6 479.6 -203.2 7.83
2.5 7.21 19.5 477.3 -201.7 7.75
3 7.22 19.5 475.8 -197.4 7.69
3.5
4
4.5
5

Sampler: M. Zbrozek			
Sample Date: 06,21.2017			
Sample Time:	1650)	
	*		
Height of Water	Column: 7	78_(feet)	
asing Volume:	1.24	(gal)	
urge Volume: 3	.73	(gal)	
Purge Method:	Grab		
		7 gal/ft	
,	D.O. (mg/L)	Turbidity (NTU)	
-202.1	6.63	HORYTA	
-211.9	6.53		
-211.4	6.28	HOZY	
	6.28	HOZY	
-211.4		HOZY	
-211.4 -211.5	6.27		
-211.5 -212.9	6.22		
-211.5 -212.9	6.22		
-211.5 -212.9	6.22		
	Sample Time: Height of Water asing Volume: urge Volume: Purge Method: gal/ft; 4.0" = 0.65 gavenum of the control of the co	Sample Time:	

Analytical Method(s): ___Chloride

Project Na	me: Salty D	og	S	ampler: M. Z	Zbrozek	
Project #: ES08.0118.06				Sample Date: 06.21.2017		
	nager: Johr			ample Time:	and the same of th	
Well #: DE	3S-3		_			
Well Diame	eter:2	2"	_(inches) Hei	ight of Water	Column:	7. 24 (feet)
Depth to N	APL:	(feet btoc) Casin	g Volume:	1.48	(gal)
Depth to W	/ater: 65.	52	feet btoc) Purge	Volume: 5	1.44	(gal)
		1 4 4	(feet) Pur			
	olume (SCH 40		casing = 0.16 gal/1	ft; 4.0" = 0.65 ga	al/ft; 6.0" = 1.4	17 gal/ft
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
Initial	7.23	23.1	509.9	-213.6	7.99	Hazy Tony
1	7.24	19.8	506.5	-222.0	7.47	
1.5	7.23	19.7	504.9	-222.0	7.33	
2	7.22	19.7	503.7	-218.3	7.19	
2.5	7.22	19.7	502.4	-216.8	7,12	
3	7.21	19.7	499.1	-219.3	7.10	
3.5						
4						
4.5						
5						
Analytical N	/lethod(s): _	Chloride				

Project Nar	me: Salty D)og	S	ampler: M. Z	Zbrozek	
	ES08.0118			ample Date:		7
	nager: Johr			ample Time:		
	1	,		ample Time.	170	
Well #: DB	S-9					
Well Diame	eter:2	2"	(inches) He	ight of Water	Column:_/	5.27 (feet)
Depth to N	APL:		(feet btoc) Casin	g Volume:	1.64	(gal)
Depth to W	ater: <u>55</u>	1.28	(feet btoc) Purge	Volume:	4.93	(gal)
			(feet) Pur			
Note:						
One casing vo	olume (SCH 40	0 PVC): 2.0" I	ID casing = 0.16 gal/f	ft; 4.0" = 0.65 ga	al/ft; 6.0" = 1.4	7 gal/ft
Groundwa	ter Parame	ters:				
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
Initial	6.91	21.9	1739	-196.3	6.88	Hazy Tan
1	7.04	21.1	1258	-212.1	6.68	
1.5	7.05	21.1	1254	-197.2	6.70	
2	7.04	21.1	1184	-244.1	5.75	
2.5	7.05	21.8	1174	-227.2	5.58	Hazycleac
3	7.04	21.9	1174	-226,6	5.57	
3.5						
4						
4.5						
5						
	scription: 1		cle-c			
i nyolodi Ob	ooi valionis.	7.500	Jicou			

Analytical Method(s): Chloride

Project Na	me: Salty I	Dog		Sampler: M.	Zbrozek	
	ES08.0118			Sample Date:		7
	nager: Joh			Sample Time		
i roject wa	nager.			_ Sample Time		
Well #: DE	3S-6					
Well Diame	eter:	2"	(inches)	Height of Water	r Column: 1	0. 21 (feet)
Depth to N	APL:		(feet btoc) C	asing Volume:	1.63	(gal)
				urge Volume:	The last of the la	(gal)
				Purge Method:		(9)
Note:	-		((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	r argo mouroa.	Olab	
	olume (SCH 4	0 PVC): 2.0"	ID casing = 0.16	6 gal/ft; 4.0" = 0.65 g	al/ft; 6.0" = 1.4	17 gal/ft
Groundwa	ter Parame	ters:				
Casing Volume	рН	Temp (°F)	Conducti (µS/cm	,	D.O. (mg/L)	Turbidity (NTU)
Initial	7.28	203	1237	-169.1	6.46	HazyTan
1	7.05	19.5	1256	-222.3	6.94	
1.5	7.00	19.5	1255	-224.7	6.77	
2	6.87	19.5	1252	-240.5	6.49	
2.5	6.86	19.4	1250	-241.0	6.45	
3	6.87	19.4	1241	-240.4	6.47	
3.5						
4			1			
4.5						
5						
Sample Des	scription: <u>1</u>	poly				

Analytical Method(s): Chloride

	me: Salty			Sampler: M. Z		
	ES08.0118		S	Sample Date:	06.21.201	7
Project Ma	nager: Joh	n Ayarbe	S	Sample Time:	0905	
Well #: DE	3S-8					
Well Diame	eter:	2"	_(inches) He	ight of Water	Column: 5	:82_(feet
Depth to N	APL:		(feet btoc) Casin	g Volume:	0.93	(gal)
Depth to W	/ater:6	4.09	(feet btoc) Purge	Volume:	2.79	(gal)
Total Deptl	h of Well:	69.91	and the second second	ge Method:	X-15-	
	rolume (SCH 4		D casing = 0.16 gal/	ft; 4.0" = 0.65 ga	al/ft; 6.0" = 1.4	17 gal/ft
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
Initial	7.48	26.6	477	-217.3	5.36	HOTET Red Ton
1	7.22	23.2	587	-208.2	6.35	
1.5	7.21	25.3	588	-211.4	5.69	
2	7.20	26.6	582	-211.9	4.81	
2.5	7.18	24.6	596	-223.4	5.21	Hazr clea
3	7.19	23.9	585	-224.2	5.28	
3.5		-				
4						
4.5			-			
5			,			

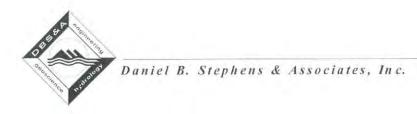
Project Name: Salty Dog				Sampler: M. Zbrozek		
Project #:	ES08.0118	3.06	S	Sample Date: 06.21.2017		
Project Ma	nager: Joh	n Ayarbe	S	ample Time:	1015	
Well #: M	N-5					
Well Diame	eter:	2"	(inches) He	ight of Water	Column:_6	5.16 (feet)
Depth to N	APL:		(feet btoc) Casin	g Volume:	10.43	(gal)
			(feet btoc) Purge			
			(feet) Pur			(9-")
Note: One casing v		40 PVC): 2.0" I	D casing = 0.16 gal/			7 gal/ft
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
Initial	6.64	19.9	3138	-259.4	3.65	clear
1	6.91	20.1	2878	-246.5	3.41	
1.5	6.94	20.7	2807	-252.0	3.56	
2	6.95	20.8	2711	-255.8	3.39	
2.5	6.91	20.8	2690	-237.2	3.70	
3	6.94	00.8	2702	-256.0	3.46	clear
3.5						
4						
4.5						
5						
	escription: _1					
Physical O	bservations	:_clear.				

Analytical Method(s): Chloride

Project Name: Salty Dog			S	ampler: M. Z	'brozek	
Project #:			S	ample Date:	06.21.2017	7
Project Mar				ample Time:		
Well #: MV	V-3					
Well Diame	eter:	2"	_(inches) Hei	ght of Water	Column: 8	1. 57_(feet)
Depth to N	APL:	(feet btoc) Casin	g Volume:	13.05	(gal)
			feet btoc) Purge			(gal)
			(feet) Pur			
Note:	olume (SCH 4	40 PVC): 2.0" II	O casing = 0.16 gal/f			7 gal/ft
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
Initial	7.12	19.6	2485	-241.5	3.51	Clear
1	6.69	19.4	18063	-285.6	3.09	
1.5	6.73	19.5	22161	-250.8	3.10	
2	6.73	19.5	23851	-2741	3.05	clear
2.5	6.75	19.5	24472	-273.1	3.05	
3	6.76	19.5	24740	-273.9	3.03	
3.5	6.76	19.5	24811	-24819	3.03	cleal
4	6.77	195	24741	-273.5	3.04	
4.5						
5						
	escription: _					
	Method(s):					



Project Name: Salty Dog				Sampler: M. Zbrozek			
				ample Date:	06.21.201	7	
Project Man	ager: Johr	n Ayarbe		ample Time:			
Well #: Brir	ne		_				
Well Diame	ter:2	2"	_(inches) Hei	ght of Water	Column:	(feet	
Depth to NA	\PL:	(feet btoc) Casing	g Volume:		(gal)	
Depth to Wa	ater:	(feet btoc) Purge	Volume:		(gal)	
			(feet) Pur				
Note: One casing vo Groundwat) casing = 0.16 gal/f	t; 4.0" = 0.65 ga	il/ft; 6.0" = 1.4	7 gal/ft	
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)	
Initial							
1							
1.5							
2							
2.5							
3							
3.5			1		<u> </u>	<u> </u>	
4							
4.5							
5							
Sample Des	cription: 3	poly					



Project Name: Salty Dog				Sampler: M. Zbrozek			
Project #: E			S	Sample Date: 06.21.2017			
Project Mana				Sample Time:			
Well #: Injec	ction		_				
Well Diamet	er:2	2"	_(inches) He	ight of Water	Column:	(feet)	
Depth to NA	PL:	(1	feet btoc) Casir	ng Volume:		(gal)	
Depth to Wa	ter:	(feet btoc) Purge	e Volume:		(gal)	
Total Depth	of Well:		(feet) Pu	rge Method:	Grab		
			casing = 0.16 gal	/ft; 4.0" = 0.65 g	al/ft; 6.0" = 1.4	7 gal/ft	
Groundwate	er Parame	ters:		_			
Casing Volume	рН	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)	
Initial							
1							
1.5							
2							
2.5						1	
3							
3.5							
4			-				
4.5							
5							
Sample Des	cription: <u>2</u>	poly					
Physical Obs	servations:						
Analytical Ma	ethod(s):	Chloride T	DS. Spec Grav	ity pH			

2013 Annual Class III Well Report Salty Dog Brine Station

DP BW-8, API No. 30-025-26307 Lea County, New Mexico

Prepared for

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

September 11, 2014



Daniel B. Stephens & Associates, Inc.

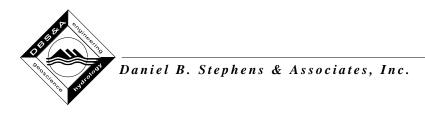
6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109



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	3 Generalized Brine Well Schematic
	4 Monitor and Extraction Well Locations
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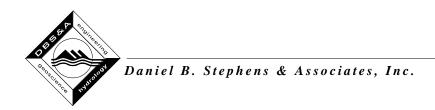
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List of Appendices

Appendix

- A 2013 Monthly Fresh and Brine Water Report Forms
- B Bradenhead Test Report



2013 Annual Class III Well Report Salty Dog Brine Station DP BW-8, API No. 30-025-26307 Lea County, New Mexico

1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this Annual Class III Well report for submission to the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (OCD) Environmental Bureau on behalf of PAB Services, Inc. (PAB) for the operation of a brine well (Brine Supply Well #1 [API No. 30-025-26307]) at the Salty Dog Brine Station (the site) located in Lea County, New Mexico, approximately 11 miles west of Hobbs, New Mexico along U.S. Highway 62/180 (Figure 1). The report summarizes operational and monitoring activities conducted at the site in 2013, and was prepared in accordance with the requirements of discharge permit (DP) BW-8, last renewed on November 8, 2013. The submittal of this report meets Condition 2.J of the permit (NMEMNRD, 2013).

The recently renewed DP BW-8 stipulates several new monitoring and characterization requirements for the site (NMEMNRD, 2013). While PAB has implemented activities to meet most of these requirements, others are still being developed. The status of activities to meet the new requirements is reported herein under the appropriate sections.

Salty Dog is a brine water production and loading station, consisting of a fresh water supply well, a brine production well, and a concrete truck loading pad with two brine filling stations. Fresh water is stored in two 1,000-barrel (bbl) aboveground storage tanks (ASTs). Produced brine is pumped from the brine well to a bermed tank battery consisting of six 750-bbl ASTs, where the brine is stored for sale. The brine well is located approximately 0.5 mile southwest of the brine filling station (Figure 1). Figure 2 presents a 2014 aerial photograph of the brine station showing the layout of the current facility infrastructure.

Brine is produced from the in situ extraction of salt at the brine well, a UIC Class III well (Brine Supply Well #1 [API No. 30-025-26307]). The brine well is approximately 3,000 feet deep and



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has been in operation since the early 1980s. The Salty Dog brine well is configured for reverse circulation brine recovery, where fresh water is circulated down the casing annulus into the Salado Formation—a Permian Age sedimentary rock unit composed of halite (salt) and other evaporative beds. Fresh water dissolves the salt, and the brine is extracted through the center tubing of the well. Figure 3 shows a generalized schematic of the brine well illustrating its construction, tubing depths, and the penetrated geologic units.

The physical location of the brine well is 1,980 feet from south line (FSL) and 1,980 feet from east line (FEL) (NW/4 SE/4, Unit Letter J) in Section 5, Township 19 South, Range 36 East, New Mexico Principal Meridian (NMPM) (Figure 1). The brine well was installed in June 1979. The original discharge permit for the brine well (GWB-2) appears to have been issued on December 18, 1982 (OCD, 1994). The discharge permit was last renewed on November 8, 2013 (NMEMNRD, 2013).

Injection water used in brine production is obtained from the Ogallala Aquifer by pumping the fresh water supply well and two on-site groundwater remediation wells (RW-1 and RW-2). The two remediation wells are used to remove and provide hydraulic containment of chloride-impacted groundwater. Depth to regional groundwater is approximately 60 feet below ground surface (bgs). Figure 4 shows the locations of the two extraction wells (RW-1 and RW-2).

2. Brine Well Operational Activities

The following subsections report fluid injection and brine production volumes and well maintenance activities.

2.1 Fluid Injection and Brine Production

The brine well was put back into operation in October 2013 after being shut down for an approximately two-year period. Except for this recent shutdown and temporary interruptions for routine maintenance and testing (e.g., February 2009 sonar survey [SOCON, 2009]), the brine well has been in continuous operation since 1980, producing an average of approximately 10,500 barrels per month (bbl/mo) of brine based on 1987, 1996–1999, and 2009 brine production and sales records (Salty Dog, 1988, 1999, and Undated).



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Both fluid injection and brine production volumes are metered and daily volumes are recorded on monthly fresh and brine water report forms (Appendix A). Table 1 reports monthly injection and production volumes for the reporting period. Injection water for the brine well comes from a fresh water well located immediately east of the truck loading pad and two groundwater remediation wells (RW-1 and RW-2) (Figure 4). Ratios of injected water to produced brine ranged from 1.02 to 1.20.

Table 1. Monthly Water Injection and Brine Production Volumes, 2013

	Volu	Ratio	
Month	Water Injection	Brine Production	(injection:production)
September	8,770	7,325	1.20
October	45,850	44,950	1.02
November	46,300	45,590	1.02
December	31,200	29,135	1.07
Annual Total	132,120	127,000	_

bbl = Barrels

Based on the data reported in Table 1 and previously reported production records (Salty Dog, 1988, 1999, and Undated), the estimated cumulative volume of brine production is 4,127,500 bbl.

The estimated size of the brine solution cavern is approximately 610,000 to 1,022,196 bbl. OCD has estimated a volume of 1,022,196 bbl for the Salty Dog solution cavern (NMEMNRD, 2012). The smaller solution cavern estimate is based on the brine production data presented in this report (i.e., an average brine production rate of 10,500 bbl/mo between 1980 and 2011 and the 2013 brine production data reported in Table 1).

2.2 Injection Pressure

Pressure is monitored on the well tubing and recorded daily on the monthly fresh and brine water report forms (Appendix A). In September through December 2013, daily tubing pressures ranged from 50 to 130 pounds per inch (psi).



PAB has equipped the brine well with a Murphy pressure switch set to a maximum injection pressure of 250 psi. If the injection pressure exceeds 250 psi, the switch automatically shuts off fluid injection at the well.

2.3 Chemical and Physical Analyses

DP BW-8 requires quarterly monitoring of the chemical and physical characteristics of the injection water and produced brine, including pH, density, and total dissolved solids (TDS) and chloride concentrations. The permit also requires that the sodium concentration of the produced brine be analyzed.

These analyses were not performed in 2013 because of the short period of time between the issuing of the permit renewal (November 8, 2013) and the end of the 2013 calendar year. PAB is in the process of establishing a sampling schedule and protocols to meet the requirements of Condition 2.A of DP BW-8.

Historical water quality analyses show TDS concentrations of the fresh water and produced brine of approximately 600 milligrams per liter (mg/L) and 320,000 to 350,000 mg/L, respectively (Martin, 1982; Unichem, 1987).

2.4 Deviations from Normal Operations

There were no deviations from normal operations from the time they commenced in October 2013 to the end of the 2013 calendar year.

2.5 Leaks and Spills

There were no leaks or spills in 2013.

2.6 Area of Review

Salty Dog did not discover any new wells or other conduits within a 1-mile radius of the brine well that penetrate or potentially penetrate to the Salado Formation (i.e., injection zone).



Condition 3.L of DP BW-8 requires Salty Dog to report within 72 hours the discovery of any new wells, conduits, or other devices that are both within a 1-mile radius and may penetrate to the injection zone of the brine well.

Figure 5 shows the area within a 1-mile radius of the brine well presented on a 2014 aerial photograph. The brine station is located on private property in rural southeastern New Mexico, approximately 11 miles west of Hobbs. The majority of the area surrounding the site is undeveloped and owned by the State of New Mexico (BLM, 2014).

2.7 Mechanical Integrity Test

On October 31, 2013, Salty Dog conducted a Bradenhead test on the brine well. The test showed no problems with the integrity of the well casing. Results of this test were reported to OCD on November 15, 2013. Appendix B contains the Bradenhead test report and completed Form C-103 submitted to OCD.

3. Other Facility Activities

In November and December 2013, PAB completed construction of a new brine tank battery located just south of the truck loading area. The new tank battery consists of six 750-barrel ASTs, surrounded by a berm. These tanks serve as storage for the brine that is produced for sale. In addition, a new concrete loading pad with two new brine filling stations was constructed at the truck loading area, and a new control building was installed adjacent to the existing truck loading pad. These new facilities are shown in Figure 2.

4. Subsidence Monitoring and Cavern Characterization

Salty Dog is in the process of preparing a work plan to satisfy Conditions 2.B.1 and 2.B. 2 of the recently renewed DP BW-8. This work plan will describe the proposed technical approach to be used to satisfy the two permit conditions: (1) the design of survey monuments and establishment of a program to monitor for potential surface subsidence, and (2) investigation activities to characterize the size and shape of the solution cavern created by brine production.

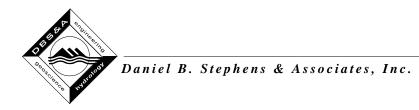


5. Groundwater Conditions

Salty Dog is addressing groundwater impacts resulting from releases at the brine well and a former brine pond. The area of the former brine pond is shown in Figures 1 and 2. A hole in the casing of the brine well at 250 feet bgs was discovered in 1999 (Salty Dog, 1999). The hole released brine, impacting groundwater, and was repaired in August 1999 by installing a casing liner (Salty Dog, 1999). In October 2008, the brine pond was removed and impacted soil excavated and disposed of (DBS&A, 2008).

Two chloride plumes currently exist at the site: one in the area of the brine station (i.e., the former brine pond area) and a second near the brine well. In 2009, extraction wells RW-1 and RW-2 were installed at the site to remove and provide hydraulic containment of brine-impacted groundwater at the brine station and near the brine well, respectively (DBS&A, 2009). Groundwater abatement and monitoring activities are being conducted to satisfy an administrative compliance order issued by OCD (ACO 2008-02) and settlement agreement and stipulated revised final order (NM-OCD 2008-2A) between OCD and Mr. Bergstein.

Groundwater monitoring and extraction data are reported and evaluated in reports submitted to OCD. The data include water levels and water quality at site monitor wells (Figure 4) and groundwater pumping rates at the two extraction wells (RW-1 and RW-2). DBS&A (2013) presents an evaluation of the 2013 data.



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- Martin Water Laboratories, Inc. (Martin). 1982. Result of water analyses for raw water and brine water samples collected November 1, 1982. Prepared for Natural Resources Engineering Inc. November 1, 1982.
- New Mexico Energy, Minerals and Natural Resources Department (NMEMNRD). 2012. Presentation from pre-proposal conference, Request for professional & technical services, I&W Brine Cavern project, Carlsbad, New Mexico. May 9, 2012.
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- Oil Conservation Division, New Mexico Energy, Minerals and Natural Resources Department (OCD). 1994. Letter from Roger C. Anderson to Larry Squires, Salty Dog, regarding Discharge plan BW-08 renewal, Salty Dog Inc. water station, Lea County, New Mexico. March 4, 1994.
- Salty Dog, Inc. (Salty Dog). 1988. Letter report outlining facility data for quarter ending September 1987. February 25, 1988.
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Figures

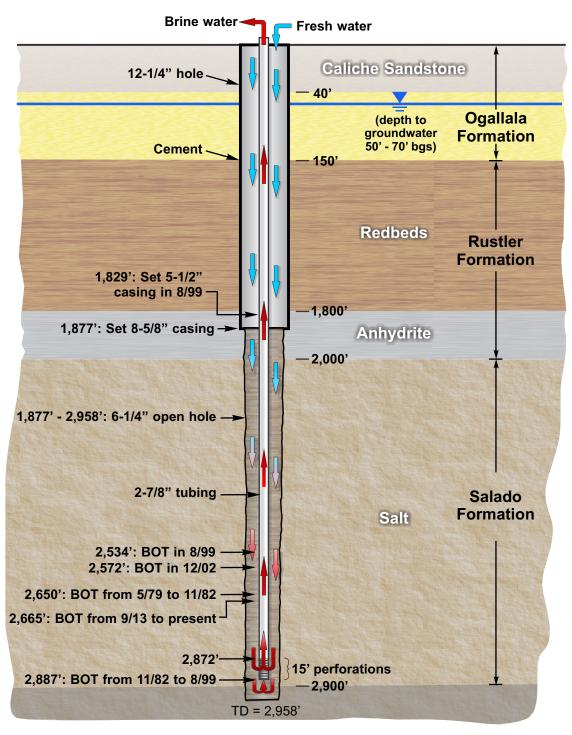
Figure 1

Water supply well

SALTY DOG BRINE STATION

2014 Aerial Photograph of Salty Dog Brine Station

Salty Dog Brine Well



Notes:

- 1. BOT = Bottom of tubing
- 2. Figure not to scale

Sources:

- 1. Completion data based on OCD well reports
- 2. Lithology from Salty Dog (1988)

SALTY DOG BRINE STATION

Generalized Brine Well Schematic



ROJECTS/ES08.0118.05 SALTY DOG DP BW-8\VR DRAWINGS\FIGO2 GENERALIZED BRINE WELL SCHEMATIC.CDF

Daniel B. Stephens & Associates, Inc. 9-10-14 JN ES08.0118.05

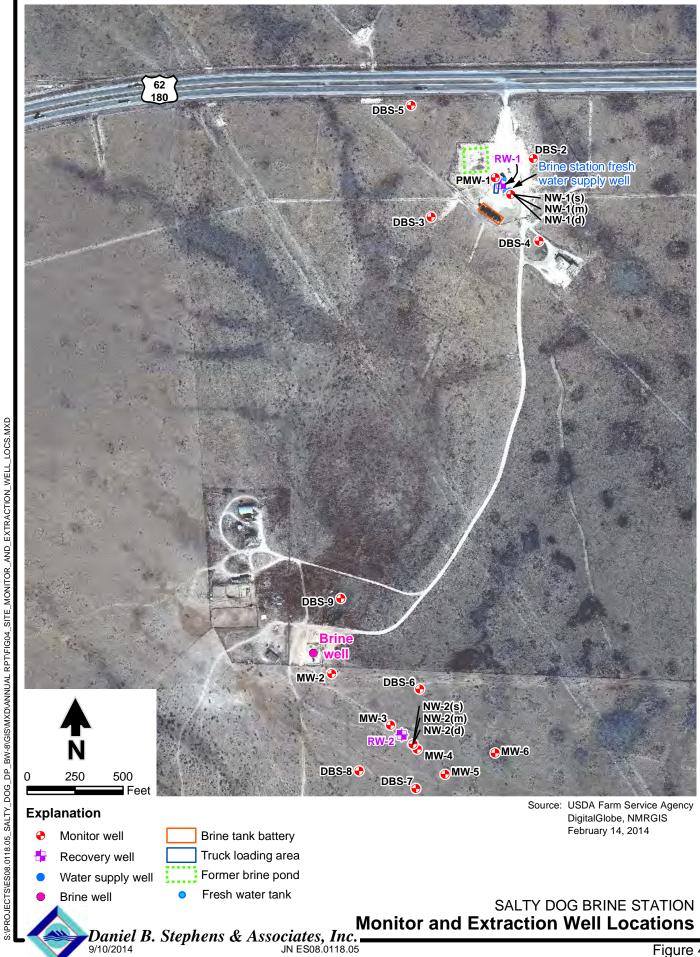


Figure 4



SALTY DOG BRINE STATION **Area of Review**

Figure !

Appendix A

2013 Monthly Fresh and Brine Water Report Forms

FACILITY/LOCATION SALTY Dog MONTH/YEAR Sept

	WATER PUMPED DOWN HOLE	BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	0	0			1.170
2	17	0			2,210
3	Ď	D			1.560
4	Ô	0			520
5	อ	0			1.170
6	9	0			2,210
7	n	()			1980
8					1.950
9		_			520
10					2.210
11					180
12					
13		_			2,210
14					1.110
15	650				1 780
16	800				520
17	1000	960	120		1.560
18	620	0	80		1 780
19	475	120	75		110
20	475	720	25		1950
21	475	960	80		1_
22	475	360	90		2,210
23	475	6	75		1,170
24	475	480	100)
25	475	360	60		1,560
26	475	600	70		520
27	475	960	80		2,210
28	475	480	60		1.170
29	475	120	100		1
30	475	600	20		1,950
31					1
TOTALS	8,770	7325	1.7.000		34.870
		REPAIRS AND/O	R EXPENSES		1
Date	Company Performing Work/Repairs	Description of Work/Repairs	Estimated Cost	Work Author	ized by

C:\Documents and Settings\Cynthia\Local Settings\Temporary Internet Files\OLK88AlMonthly FW-BW Report - Original

FACILITY/LOCATIO	N SALTY	DOG	
MONTH/YEAR	oct		

BBLS 1450 1450 1450 1450 1450 1450 1450 1450	BBLS SOLD 1450 1450 1450 1450 1450 1450 1450 1450	PSI \$0 7.5 \$0 \$0 \$0 \$0 70 75 75 90	PSI	SOLD 1, 170 1,040 1,040 1, 1713 1,040
1450 1450 1450 1450 1450 1450 1450 1450	1450 1450 1450 1450 1450 1450 1450	75 80 80 40 70 75 75 90		1,040
1450 1450 1450 1450 1450 1450 1450	1450 1450 1450 1450 1450 1450	80 80 40 70 75 75 90		1,1713
1450 1450 1450 1450 1450 1450 1450	1450 1450 1450 1450 1450	90 40 70 75 75 75 90		1, 176
1450 1450 1450 1450 1450 1450	1450 1450 1450 1450 1450	40 70 75 75 90		1, 176
1450 1450 1450 1450 1450	1450 1450 1450 1450	70 75 75 90		1,040
1450 1450 1450 1450	1450 1450 1450	75 75 90		1,040
1450 1450 1450	1450 1450	75		77
1450 1450 1450	1450	90		1,040
1450 1450 1450		90		
1450	1450			1.04
		75		1,17
	1450	80		1.09
1750	1450	80		1
1450	1450	80		
		85		1,04
		80		11,171
				1,041
				1040
				1,12
		7.5		1.040
				1040
		80		
				1.04
				1,170
				1.04
				1
				_
				1.12
				1.040
		80		1
		85		
				2275
	REPAIRS AND/O	R EXPENSES		
Company Performing Work/Repairs	Description of Work/Repairs	Estimated Cost	Work Authori	zed by
	1450 1450 1450 1450 1450 1450 1450 1450	1450 1450 1450 <td>1450 1450 70 1450 1450 85 1450 1450 85 1450 1450 70 1450 1450 75 1450 1450 75 1450 1450 80 1450 1450 80 1450 1450 80 1450 1450 80 1450 1450 70 1450 1450 70 1450 1450 70 1450 1450 80 1450 1450 80 1450 1450 80 1450 1450 80 1450 1450 85 Number 1 Number 1 Number 1 Number 2 Number 2 Number 3 Number 3 Number 3 Number 3 Number 3</td> <td> 1450</td>	1450 1450 70 1450 1450 85 1450 1450 85 1450 1450 70 1450 1450 75 1450 1450 75 1450 1450 80 1450 1450 80 1450 1450 80 1450 1450 80 1450 1450 70 1450 1450 70 1450 1450 70 1450 1450 80 1450 1450 80 1450 1450 80 1450 1450 80 1450 1450 85 Number 1 Number 1 Number 1 Number 2 Number 2 Number 3 Number 3 Number 3 Number 3 Number 3	1450

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MONTH/YEAR NOV

Date

Work/Repairs

	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	1.520	1,520	80		180
2	1,520	1,520	80		520
3	1,520	1,520	80		656
4	1,520	1.520	95		390
5	1.520	1,520	100		520
6	1,520	1,520	100		650
7	1.520	1,520	100		780
8	1,520	1,520	100		520
9	1.520	1,520	100		390
10	1,520	1,520	110		650
11	1,520	1,520	120		396
12	1,520	1,520	100		526
13	1,520	1510	110		396
14	1,520	1,520	110		280
15	1.520	1,520	110		650
16	1,520	1,520	110		656
17	1,520	1.520	110	1	520
18	1,520	1.520	120		180
19	1,520	1.520	120		396
20	1,520	1,520	130		780
21	1.520	1,520	120		390
22	1,520	1,520	125		520
23	1,520	1,520	120		780
24	1,520	3,520	125	4	780
25	1,520	1.520	125		520
26	1,520	1.520	100		650
27	1.520	1.570	100		526
28	1,520	1,520	100		650
29	1,520	1,570	100		780
30	1,520	1.520	100		540
31	L	7_			
TOTALS	45,600	45,590			17,811
		REPAIRS AND/O	REXPENSES		1
	Company Performing	Descritpion of			

Work/Repairs

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Work Authorized by

Estimated Cost

FACILITY/LOCATION SALTY DOG MONTH/YEAR Dec 2013

	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	1,700	2090	15		
2	1/200	1960	75		
3	1,200	980	75		
4	1,200	1450	75		
5	1,200	1985	75		
6	1,200	1210	75		
7	1,200	230	30		
8	/				
9				V	
10					
11					
12	1,200	1555	50		
13	1,200	1110	75		
14	1, 200	1610	80		
15	1,200	330	75		
16	-				
17	1,200	820	25	9	
18	1,200	1680	60		
19					
20	1,200	850	50		
21	1,200	590	75		
22	1,200	2530	70		
23	1, 200	530	60		
24	1,200	880	7.5		
25	1,200	1040	75		
26	1,200	1170	50		
27	1,200	500	75		
28	1,200	910	75		
29	1,200	2/30	75		
30	1,200	765	50		
31	1,200	130	80		
TOTALS	31,200	29.135			

Company Performing Work/Repairs M+5 Build B+l/Y II II II II C:Documents and Settings\Temporary Internet Files\OLK9B\Monthly FW-BW Report - Original

Appendix B Bradenhead Test Report

Office	State of New Mexico	Form C-103
<u>District I</u> – (575) 393-6161	Energy, Minerals and Natural Res	ources Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.
District II – (575) 748-1283	OIL CONSERVATION DIVIS	SION 30-025-26307
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178	1220 South St. Francis Dr	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410		STATE THE
<u>District IV</u> – (505) 476-3460	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM		75087
87505	ICEC AND DEDODTS ON WELLS	7. Lease Name or Unit Agreement Name
	ICES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLUG BACK	TOA
	CATION FOR PERMIT" (FORM C-101) FOR SUCH	
PROPOSALS.)		0 11 11 11
1. Type of Well: Oil Well	Gas Well Dother Brine We	
2. Name of Operator		9. OGRID Number
YAB Se	EUICES DBA SALTY D	C-IN 184708
3. Address of Operator		10. Pool name or Wildcat
PO BOX 190 L	JBBOCK TX 79408	BSW & SALADO
4. Well Location	77 1700	
Unit Letter):	1980 feet from the SOUTH li	ne and $1980'$ feet from the EAST line
Section 5	Township 195 Range	SLE NMPM County LEA
	11. Elevation (Show whether DR, RKB, I	RT, GR, etc.)
NAMES OF TAXABLE PARTY OF TAXABLE	3963	
12. Check A	Appropriate Box to Indicate Nature of	of Notice, Report or Other Data
		•
NOTICE OF IN	TENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON 🔲 REME	DIAL WORK ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS COMM	MENCE DRILLING OPNS. □ P AND A □
PULL OR ALTER CASING	MULTIPLE COMPL	NG/CEMENT JOB
DOWNHOLE COMMINGLE		_
CLOSED-LOOP SYSTEM		
OTHER:	BRADENHEAD TEST OTHE	R·
13 Describe proposed or comp		t details, and give pertinent dates, including estimated date
		Aultiple Completions: Attach wellbore diagram of
proposed completion or rec		runiple Completions. Attach wendore diagram of
, ,		
PERFORMEN AN	INCIAL BEADEN HEAD TES	Т
CASING TEST	ED DK	
CHSING LEST		
Spud Date:	Rig Release Date:	
	3	
I hereby certify that the information	above is true and complete to the best of my	y knowledge and belief.
~ _		
1), () i	
SIGNATURE Kandy	TITLE MANGE	DATE 11-15-13
	Di	navities as and
Type or print name	Toston E-mail address: raw	DATE 11-15-13 Lypa agueousoparchine: 806-787-1864
For State Use Only		71 0
APPROVED BY:	TITLE	DATE
Conditions of Approval (if any):		

State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division Hobbs District Office

BRADENHEAD TEST REPORT

		_r	3 API Number	Nr.					
PAB SERVICE		30-025-26307							
1 topolty ivalite					Well No.				
BRINE SU	PPLY WEL	001		01					
		7. Surface Locati							
	wnship Range	Feet from	N/S Line	Feet From 1980	E/W Line	County			
	Well Status								
Well Status	SHUT-IN	PRODUCING	10-	DATE 31-13					
OPEN BR	RADENHEAD AND INT	ERMEDIATE TO ATMOSPHE	-		ES EACH				
If bradenhead flowed water, c	heck all of the descriptio	OBSERVED DA	TA						
	(A)Surf-Interm	(B)Interm(1)-Interm(2)	(C)Interm-Prod	(D)Proc	i Csng	(E)Tubing			
Pressure	0	AU	NIA		N/A	100			
Flow Characteristics	Λ		1105						
Puff	Y/N)	Y / N	Y/N		Y / N	1			
Steady Flow	Y / (S)	Y / N	Y/N		Y / N	1			
Surges	Y / (V)	Y / N	Y/N		Y / N	1			
Down to nothing	Y / 🔇	Y/N	Y/N		Y / N				
Gas or Oil	Y / (N)	Y / N	Y/N		Y/N				
Water	Y / (N)	Y/N	Y / N		Y / N]			
If bradenhead flowed water c	heck all of the description	ns that anniv							
CLEAR	owed water, check all of the descriptions that apply: FRESH SALTY SULFUR			BLACK					
Remarks:									
NO PROBLEM	15								
									
Signature		OIL CONSERVATION DIVISION							
Printed name: Rand	Е	Entered into RBDMS							
Title: Manager	R	e-test							
	Da acurou	soperating. com							
Date: 1(-15-13		6-787-1864							
	Witness: N	/A							
	*	P							



Mr. Tomas Oberding New Mexico Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, NM 87505-4225

Re: 2014 Annual Class III Well Report

Salty Dog Brine Station

Dear Mr. Oberding:

On behalf of PAB Services, Inc., Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to submit the enclosed annual Class III well report for the operation of a brine well (API No. 30-025-26307) at the Salty Dog Brine Station in Lea County, New Mexico. The report documents brine production activities at the facility in 2014, and was prepared in accordance with the requirements of discharge permit (DP) BW-8.

Also included as an appendix to the report is an annual certification signed by Mr. Pieter Bergstein.

Please do not hesitate to call me at (505) 353-9137 or Mike at (505) 353-9130 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

John Ayarbe, P.G.

Senior Hydrogeologist

Michael D. McVey, C.P.G., P.G.

Senior Hydrogeologist

JA/rpf Enclosures

cc: Pieter Bergstein, PAB Services, Inc.

Terry Wallace, Salty Dog, Inc.

2014 Annual Class III Well Report Salty Dog Brine Station

DP BW-8, API No. 30-025-26307 Lea County, New Mexico

Prepared for

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

July 24, 2015



Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

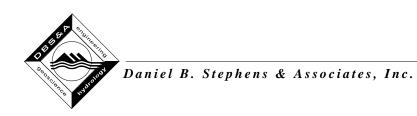


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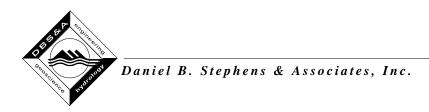
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Appendix

- A Annual Certification
- B 2014 Monthly Fresh and Brine Water Report Forms
- C Laboratory Analytical Report



2014 Annual Class III Well Report Salty Dog Brine Station DP BW-8, API No. 30-025-26307 Lea County, New Mexico

1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this annual Class III well report for submission to the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (OCD) Environmental Bureau on behalf of PAB Services, Inc. (PAB) for the operation of a brine well (Brine Supply Well #1 [API No. 30-025-26307]) at the Salty Dog Brine Station (the site). The site is located in Lea County, New Mexico, approximately 11 miles west of Hobbs, New Mexico along U.S. Highway 62/180 (Figure 1). This report summarizes operational and monitoring activities conducted at the site in 2014, and was prepared in accordance with the requirements of discharge permit (DP) BW-8, last renewed on November 8, 2013 (NMEMNRD, 2013). The submittal of this report meets Condition 2.J of the permit.

The recently renewed DP BW-8 stipulates several new monitoring and characterization requirements for the site (NMEMNRD, 2013). While PAB has implemented activities to meet most of these requirements, implementation of a subsidence monitoring program and brine cavern characterization study are still awaiting OCD work plan approval. A work plan for these two activities was submitted to OCD on September 17, 2014 (DBS&A, 2014b).

Appendix A provides an annual certification signed by Mr. Pieter Bergstein stating that continued salt solution mining will not cause cavern collapse, surface subsidence, property damage, or otherwise threaten public health and the environment based on geologic and engineering data.

Salty Dog is a brine water production and loading station, consisting of a fresh water supply well, a brine production well, and a concrete truck loading pad with two brine filling stations. Fresh water is stored in two 1,000-barrel (bbl) aboveground storage tanks (ASTs). Produced brine is pumped from the brine well to a bermed tank battery consisting of six 750-bbl ASTs,



Daniel B. Stephens & Associates, Inc.

where the brine is stored for sale. The brine well is located approximately 0.5 mile southwest of the brine filling station (Figure 1). Figure 2 presents a 2014 aerial photograph of the brine station showing the layout of the current facility infrastructure.

Brine is produced from the in situ extraction of salt at the brine well, a UIC Class III well (Brine Supply Well #1 [API No. 30-025-26307]). The brine well is approximately 3,000 feet deep and has been in operation since the early 1980s. The Salty Dog brine well is configured for reverse circulation brine recovery, where fresh water is circulated down the casing annulus into the Salado Formation—a Permian Age sedimentary rock unit composed of halite (salt) and other evaporative beds. Fresh water dissolves the salt, and the brine is extracted through the center tubing of the well. Figure 3 shows a generalized schematic of the brine well illustrating its construction, tubing depths, and the penetrated geologic units.

The physical location of the brine well is 1,980 feet from south line (FSL) and 1,980 feet from east line (FEL) (NW/4 SE/4, Unit Letter J) in Section 5, Township 19 South, Range 36 East, New Mexico Principal Meridian (NMPM) (Figure 1). The brine well was installed in June 1979. The original discharge permit for the brine well (GWB-2) appears to have been issued on December 18, 1982 (OCD, 1994). The discharge permit was last renewed on November 8, 2013 (NMEMNRD, 2013).

Injection water used in brine production is obtained from the Ogallala Aquifer by pumping from the fresh water supply well and two on-site groundwater remediation wells (RW-1 and RW-2). The two remediation wells are used to remove and provide hydraulic containment of chloride-impacted groundwater. Depth to regional groundwater is approximately 60 feet below ground surface (bgs). Figure 4 shows the locations of the two extraction wells (RW-1 and RW-2).

2. Brine Well Operational Activities

The following subsections report fluid injection and brine production volumes and well maintenance activities.



2.1 Fluid Injection and Brine Production

Except for an approximately 2-year shutdown between 2011 and 2013 and temporary interruptions for routine maintenance and testing (e.g., February 2009 sonar survey [SOCON, 2009]), the brine well has been in continuous operation since 1980, producing an average of approximately 10,500 barrels per month (bbl/mo) of brine between 1980 and 2009. This production rate is based on 1987, 1996–1999, and 2009 brine production and sales records (Salty Dog, 1988, 1999, and Undated).

Both fluid injection and brine production volumes are metered, and daily volumes are recorded on monthly fresh and brine water report forms (Appendix B). Table 1 summarizes monthly injection and production volumes for the reporting period. Injection water for the brine well comes from a fresh water well located immediately east of the truck loading pad and two groundwater remediation wells (RW-1 and RW-2) (Figure 4). Ratios of injected water to produced brine ranged from 10.96 to 1.13.

Table 1. Monthly Water Injection and Brine Production Volumes, 2014

	Volu	Ratio		
Month	Water Injection	Brine Production	(injection:production)	
January	47,515	49,570	0.96	
February	32,850	32,537	1.01	
March	15,810	13,990	1.13	
April	26,960	24,035	1.12	
May	41,025	39,150	1.05	
June ^a	30,001 ^a	28,411 ^a	1.06 ^a	
July	35,209	34,487	1.02	
August	49,500	49,628	0.99	
September	48,600	46,854	1.04	
October	55,010	54,520	1.01	
November	39,989	39,382	1.02	
December	42,500	41,830	1.02	
Annual total	464,969	454,394	_	

A monthly fresh and brine water report form is not available for the month of June; estimated values provided by PAB (Appendix B).
 bbl = Barrels



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Based on the data reported in Table 1 and previously reported production records (Salty Dog, 1988, 1999, and Undated; DBS&A, 2014a), the estimated cumulative volume of brine production is 4,582,000 bbl.

In 2014, brine production activities at Salty Dog dissolved an estimated 61,000 bbl of Salado Formation. This estimate is based on the brine production data reported in Table 1, the total dissolved solids (TDS) concentrations of the produced brine and injection water reported in Table 2, and an assumed density of the Salado Formation of 2.17 grams per cubic centimeter (g/cm³). The total estimated size of the brine solution cavern is approximately 670,000 bbl, based on the historical and present brine production data. In 2012, OCD estimated a volume of 1,022,196 bbl for the Salty Dog solution cavern (NMEMNRD, 2012).

2.2 Injection Pressure

Pressure is monitored on the well tubing and recorded daily on the monthly fresh and brine water report forms (Appendix B). In 2014, daily tubing pressures ranged from 25 to 200 pounds per square inch (psi).

PAB has equipped the brine well with a Murphy pressure switch set to a maximum injection pressure of 250 psi. If the injection pressure exceeds 250 psi, the switch automatically shuts off fluid injection at the brine well.

2.3 Chemical and Physical Analyses

Condition 2.A of DP BW-8 requires quarterly monitoring of the chemical and physical characteristics of the injection water and produced brine, including pH, density, and TDS and chloride concentrations. The permit also requires that the sodium concentration of the produced brine be analyzed.

PAB initiated the required quarterly monitoring in March 2015. Because monitoring was not performed in 2014, the March 2015 monitoring data are provided herein (Table 2). Dissolution of the Salado Formation increases the constituent concentrations and specific gravity of the produced brine relative to the injection water. The TDS concentration and specific gravity of the



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injection water are 652 milligrams per liter (mg/L) and 0.9861, respectively, while the same properties of the produced brine are 293,000 mg/L and 1.174, respectively. Appendix C provides the laboratory analytical report associated with the March 2015 monitoring event.

Table 2. Injection Water and Produced Brine Chemical and Physical Characteristics

	Volume (mg/L ^a)		
Constituent	Injection Water	Produced Brine	
pH (s.u.)	7.80	7.40	
Specific gravity (unitless)	0.9861	1.174	
Chloride	230	160,000	
Sodium	_	110,000	
TDS	652	293,000	

^a Unless otherwise noted

mg/L = milligram per liter

s.u. = Standard units

TDS = Total dissolved solids

Historical water quality analyses show TDS concentrations of the fresh water and produced brine of approximately 600 mg/L and 320,000 to 350,000 mg/L, respectively (Martin, 1982; Unichem, 1987).

2.4 Deviations from Normal Operations

There were no deviations from normal operations in 2014.

2.5 Leaks and Spills

There were no leaks or spills in 2014.

2.6 Area of Review

Salty Dog did not discover any new wells or other conduits within a 1-mile radius of the brine well that penetrate or potentially penetrate to the Salado Formation (i.e., injection zone).



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Condition 3.L of DP BW-8 requires Salty Dog to report within 72 hours the discovery of any new wells, conduits, or other devices that are both within a 1-mile radius and may penetrate to the injection zone of the brine well.

Figure 5 shows the area within a 1-mile radius of the brine well presented on a 2014 aerial photograph. The brine station is located on private property in rural southeastern New Mexico, approximately 11 miles west of Hobbs. The majority of the area surrounding the site is undeveloped and owned by the State of New Mexico (BLM, 2014).

2.7 Mechanical Integrity Test

Mechanical integrity testing was not conducted in 2014. The last mechanical integrity test was performed on October 31, 2013, when Salty Dog conducted a Bradenhead test on the brine well. The test showed no problems with the integrity of the well casing. Results of this test were reported to OCD on November 15, 2013. Pursuant to 20.6.2.5204 New Mexico Administrative Code (NMAC), PAB is required to demonstrate mechanical integrity of the brine well at least once every five years.

3. Other Facility Activities

Other than the standard operating activities described above, there were no other major activities in 2014.

4. Subsidence Monitoring and Cavern Characterization

A work plan to satisfy Conditions 2.B.1 and 2.B.2 of the renewed DP BW-8 was submitted to OCD on September 17, 2014 (DBS&A, 2014b). This work plan describes the proposed technical approach to be used to satisfy the two permit conditions: (1) the design of survey monuments and establishment of a program to monitor for potential surface subsidence, and (2) investigation activities to characterize the size and shape of the solution cavern created by brine production. PAB is awaiting OCD review and approval of the work plan before implementing proposed subsidence monitoring and cavern characterization activities.



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5. Groundwater Conditions

Salty Dog is addressing groundwater impacts resulting from releases at the brine well and a former brine pond. The area of the former brine pond is shown in Figures 1 and 2. A hole in the casing of the brine well at 250 feet bgs was discovered in 1999 (Salty Dog, 1999). The hole released brine, impacting groundwater, and was repaired in August 1999 by installing a casing liner (Salty Dog, 1999). In October 2008, the brine pond was removed and impacted soil excavated and disposed of (DBS&A, 2008).

Two chloride plumes currently exist at the site: one in the area of the brine station (i.e., the former brine pond area) and a second near the brine well. In 2009, extraction wells RW-1 and RW-2 were installed at the site to remove and provide hydraulic containment of brine-impacted groundwater at the brine station and near the brine well, respectively (DBS&A, 2009). Groundwater abatement and monitoring activities are being conducted to satisfy an administrative compliance order issued by OCD (ACO 2008-02) and settlement agreement and stipulated revised final order (NM-OCD 2008-2A) between OCD and Mr. Bergstein.

Groundwater monitoring and extraction data are reported and evaluated in reports submitted to OCD (DBS&A, 2013). The data include water levels and water quality at site monitor wells (Figure 4) and groundwater pumping rates at the two extraction wells (RW-1 and RW-2).



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- DBS&A. 2014a. Work plan for surface subsidence monitoring and solution cavern characterization, Salty Dog Brine Station. Prepared for the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, Environmental Bureau, Santa Fe, New Mexico. September 11, 2014.
- DBS&A. 2014b. Work plan for surface subsidence monitoring and solution cavern characterization, Salty Dog Brine Station. Prepared for the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, Environmental Bureau, Santa Fe, New Mexico. September 17, 2014.



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Figures

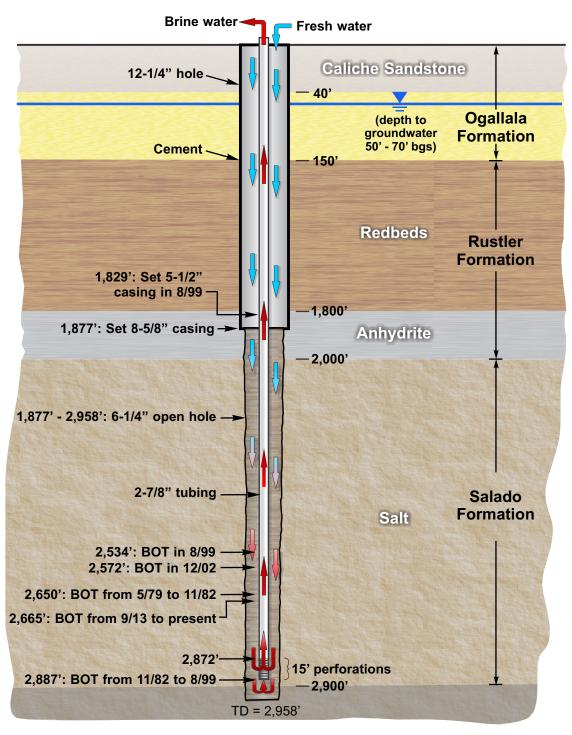
Figure 1

Water supply well

SALTY DOG BRINE STATION

2014 Aerial Photograph of Salty Dog Brine Station

Salty Dog Brine Well



Notes:

- 1. BOT = Bottom of tubing
- 2. Figure not to scale

Sources:

- 1. Completion data based on OCD well reports
- 2. Lithology from Salty Dog (1988)

SALTY DOG BRINE STATION

Generalized Brine Well Schematic



ROJECTS/ES08.0118.05 SALTY DOG DP BW-8\VR DRAWINGS\FIGO2 GENERALIZED BRINE WELL SCHEMATIC.CDF

Daniel B. Stephens & Associates, Inc. 9-10-14 JN ES08.0118.05

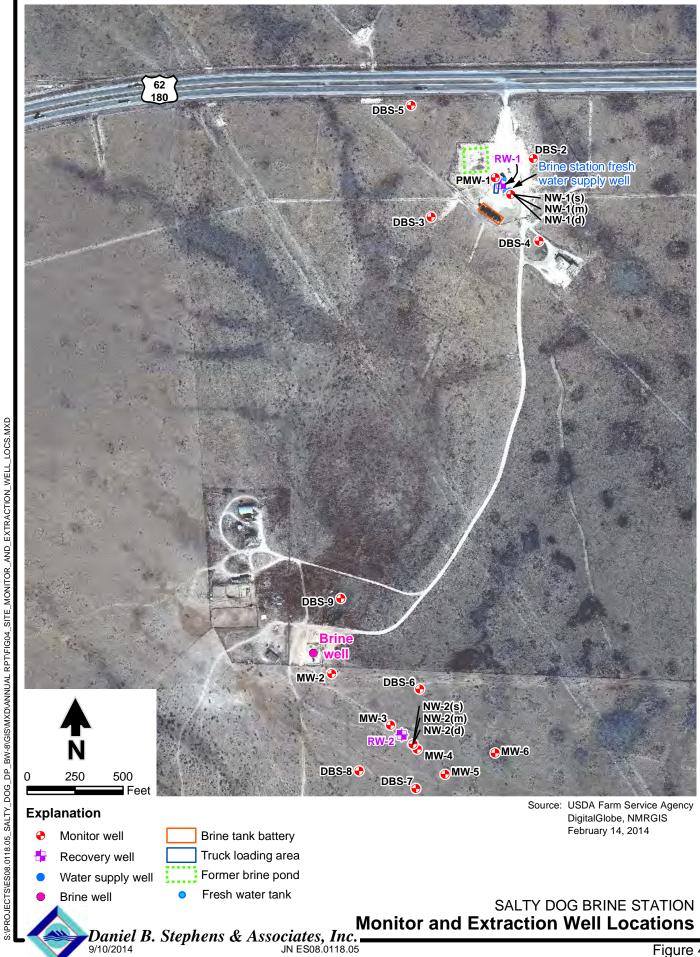


Figure 4



SALTY DOG BRINE STATION **Area of Review**

Figure !

Appendix A Annual Certification

Annual Certification

PAB Services, Inc. certifies that continued salt solution mining will not cause cavern collapse, surface subsidence, property damage, or otherwise threaten public health and the environment based on geologic and engineering data.

DEVEN BENCETE	in Browch	H
Name	Title	
	7/1/15	•
Signature	Date	

Appendix B

2014 Monthly Fresh and Brine Water Report Forms

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Date	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	BRINE WATE	ER DAILY TUBING		FRESH
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3	180	150	12C	300	
5	1020	1390	140	350	-
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6	1995	2430	170		=
7	2000	7580	140		-
8	1000	1840.	200		
9	1950	21610	200		100
10	1980	7500	700		1320
11	2000	21,00	750		1305
12	1000	075	300		2310
13	1980	1000	100		3080
14	1900	170			1700
15	2010	1300	200		10
16	1000	1670	7 00		1300
17	1980	1300	200		-
18	1980	2430	700		760
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25	1850		13		750
26	1500	1090	170		390
27	1085		1		260
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1	500	340	75	350	520
2	900	180	100		
3	1500	TIPHO	75		
4	2200	7075-	100	\\	520
5	1500	1277	100		
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18	1500	13100	100	/	7670
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23	900	4430	100		130-
24	1500	1435	100		170
25	7000)	1950	100	1	200
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		PRESSURES	PRESSURES	WATER
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				3380
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	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	1855	2055	300	300	130
2	920	1070	300	300	440
3	720	625	300	300	260
4	1600	1475	300	300	130
5	1690	1690	300	300	630
6	1720	1645	300	300	1650
7	2825	2715	300	200	1250
8	520	520	300	300	980
9	570	570	300	300	130
10	840	840	300	300	520
11	355	355	300	300	60
12	805	805	3.00	700	250
13	380	380	300	700	290.
14	2340	2340	300	300	760
15	1105	1105	300	300	130
16	860	860	900	900	130
17	100	100	.700	301	260
18	720	720	300	300	630
19	1800	1800	300	300	160
20	330	330	300	300	130
21	2610	2610	300	300	115
22	/200	//30	300		
23	//00	1000	300	300	/30
24	2000	2090	300		0
25	1800		300	300	0
26	2000	/550	300	300	9
27	1500	835			
28	1 /200	1705	300	200	90
29	***************************************	740	300	300	50
30	2000	1450	300	300	130
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ate	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Author	zed I

Zbrozek, Michael

From: Elda Pineda <elda@thestandardenergy.com>

Sent: Monday, July 13, 2015 3:57 PM

To: Zbrozek, Michael

Subject: RE: Monthly Fresh and Brine Water Reports

Hello,

I will forward you the email sent to OCD for the month of June. There was not a report turned in at that time. Unfortunately, the previous employee was gone in September and I was unable to locate one for June.

From: Zbrozek, Michael [mailto:mzbrozek@dbstephens.com]

Sent: Monday, July 13, 2015 4:46 PM **To:** 'elda@thestandardenergy.com'

Cc: Ayarbe, John

Subject: Monthly Fresh and Brine Water Reports

Good afternoon Elda,

Upon review of the 2014 Data sheets, I noticed that the month of June is missing from the reports. Can you help us locate it?

Sorry for the inconvenience,

Michael C. Zbrozek, GIT

Staff Scientist

Daniel B. Stephens & Associates, Inc.

Hydrology | Engineering | Geoscience

Celebrating 30 Years!

6020 Academy Road NE, Suite 100 | Albuquerque, New Mexico 87109 T (505) 822-9400 | F (505) 822-8877 www.dbstephens.com

Zbrozek, Michael

From: Elda Pineda <elda@thestandardenergy.com>

Sent: Monday, July 13, 2015 3:59 PM

To: Zbrozek, Michael

Subject: FW: Salty Dog Totals June & October

Hello,

Please see below.

From: Elda Pineda [mailto:elda@thestandardenergy.com]

Sent: Wednesday, November 19, 2014 10:15 AM

To: 'Jim.Griswold@state.nm.us'

Subject: Salty Dog Totals June & October

Hello, .

June - Brine Water - 28411

June - Fresh Water Down Hole - 30001

October - Brine Water - 55010

October- Fresh Water Down Hole - 55020

Thank you, Elda

FACILITY/LOCATI	ON Sal	ty Dos
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NT OF FRESH ER PUMPED WN HOLE BBLS C C C C C C C C C C C C C C C C C C C	AMOUNT OF BRINE WATER OUT OF HOLE BBLS SOLD	DAILY TUBING PRESSURES PSI	DAILY CASING PRESSURES	FRESH WATER SOLD 490 260
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690	590			485
1790	1790			130
1040	1040			0
980	980			260
1100	1000			150
1445	1445			150
930	930			390
1350	1350			520
1840	1840			390
840	840			1010
1615	1615		CELA DESCRIPTION	130
1060	1060			780
2187	2185			1190
2995	2995			520
2165	2165			260
740	940			0
1780	1780			10
250	250			780
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	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	3000	3000	100	350	2940
2	2500	3060			3705
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9	2,000	RODERS 2420			130
10	2000	1100			·Ð-
11	2000	570			8
12	2000	2000			260
13	2000	2020			390
14	2000	2040			260
15	2000	2645			650
16	2000	1450			130
17	1500	1010			675
18	1500	1175			780
19	1500	2070			1540
20	1500	973			1430
21	1500	340			2080
22	100	375			1460
23	0	0	•		390
24	0	240			480
25	500	580	Jan.		900
26	500	/230			260
27	1500	1860			230
28	2500	2565	1		980
29	1400	1460			1545
30	1000	750			A.E.
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MONTH/YEAR Sept. 2014 Dog

Date	AMOUNT OF FRESI WATER PUMPED DOWN HOLE BBLS	BRINE WAT OUT OF HO	ER DAILY T LE PRESS	URES	DAILY CASII PRESSURE	
1	The second secon	DDL3 SUL	D PS		PSI	SOLE
2	1380		100		350	0
3	1000	1350			350	187
4	1000	1005			300	285
5	2000	990			30es	285
6	2000	2080			325	2985
7	2000	500			300	700
8	2000	675			350	3800
9		1070			325	1940
10	1000	1200			325	650
11	1000	6.50			325	910
12	1000	1170		-		1000
13	1000	470			722	1000
14	1000	1380			325	1040
15	1000	130			325	390
16	1000	1390			325	130
17	3000				325	130
18	3000	3115			325	120
19	3000	2915			350	30
	2500	2620			350	130
20	1600	1784			350	140
21	1000	_1210			325	1/20
22	2,000	2460			325	520
23	1,800	1670			325	50
24	2,000	1000/680			350	
25	2,000	2090	+		350	
26	7,500	2740	-		350	310
27	1,000	4060	-		350	
28	1.000	495	1		300	130
29	2.000	925	-		300	130
30	2000	2710	-	3	325	1,300
31		2710		3	25	390
OTALS	48,600	46 854	-			- 70
With the		DAIDS AND	PAGE 10 COLUMN			25,620
ate	Performing [PAIRS AND/O **5,921.55 Descritpion of Work/Repairs		1	Work Authoriz	\$3,620
	- Torritopans	Work/Repairs	Estimated C	ost	Work Authoriz	zed by

42,600

FACILITY/LOCATIO	N SALTY Dog
MONTH/YEAR	Oct 2014

	MONTH/YEAR	04 2014	Manager and the second	GER THE WAY TO SEE	
	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	1300	1295	100	350	143
2	1800	1590		350	390
3	2000	3870		17	390
4	2000	1885		1.7	520
5	1800	1630		1 /	860
6	2000	2240		11	930
7	1000	690		1	390
8	3900	3850		11	868
9	3500	3075		1)	260
10	1000	945		11	390
11	3000	3075		41	370
12	1800	1515		300	
13	3000	3485		11	180
14	3000	2685 2675		11	1040
15	2000	1850		11	130
16	1600	1470		325	1.560
17	1990 1710	1900		11	
18	3000	-2980		11	130
19	2000	2270		1/	130
20	1700	1.735		1/	0
21	1800	1240		350	0
22	1000	620		11	0
23	1000	1000		17	-0
24	500	340		* 11	-0
25	500	440		300	0
26	400	130		300	-0
27	1200	1/20		300	A
28	: 1200	1025		300	0
29	1100	1145		270	-19
30	3000	3000	100	285	0
31	#200	235	1	205	0
TOTALS	55010	55010		200	9,481.0
voja zaka		REPAIRS AND/O	REXPENSES	The state of the s	
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Author	ized by

C:\Documents and Settings\Jim\Local Settings\Temporary Internet Files\OLK6AMonthly FW-BW Report - Original

	MONTH/YEAR NO	DUCH BER	201		
	AMOUNT OF FRESH				
Mine.	WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	/,333	1860	100	300	
2	1,335	640		300	
3	1330	2220		300	
4	/333	1490		300	
5	/333	2300		300	
6	/333	2750		.300	
7	1333	1080		300	
8	/333	780		300	
9	1333	1155		300	
10	1333	2485		300	
11	1333	1810		300	
12	1333	1321		300	
13	/333	805		300	
14	/3.33	1285		300	
15	/333	1185		300	
16	/333	1245		300	
17	1333	778		300	ARTHUR PROPERTY AND ADDRESS OF THE PARTY AND A
18	1333	493		300	-
19	/333	80		300	
20	1333	985		300	
21	/333	990		300	
22	1335	750		300	
23	1333	1,100		300	The state of the s
24	/333	1780		300	130
25	1333	1345		300	130
26	1333	605		300	
27	1333	1135			120
28		3510		300	130
29	1333			306	130
30	1333	1540		300	130
31	(22)	380		300	
TALS	39,989	39382			520
	AND DESCRIPTION OF THE PERSON	EPAIRS ANDIO	R EXPENSES		MARKAN WALL
ate	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authoriz	zed by

MONTH/YEAR Dec 2014

	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	1300	1295	róv	3.9 1.	143
2	1800	1570	1	56.22	390
3	2000	3870	1 1.	14	390
4	2000	1885	3,	11	520
5	1800	1630		11	860
6	2000	2240		11	930
7	1000	6.90		1.1	390
8	3900	3850		11	868
9	3500	3075		11	260
10	1000	945		11	390
11	3000	3075		11	370
12	1800	1515		300	
13	3000	3685		11	180
14	3000	2005 4675		11	1040
15	2000	1850		11	130
16	1600	1470		32.5	1,560
17	1000	900		11	/
18	1000	- 180		11	
19	2000	1670		1/	
20				1/	
21	1800	1240		750	
22	1000	620		11	
23				11	
24	500	340		11	
25	500	440		300	
26					
27			0		
28	9				
29			3		
30					
31					
OTALS					
tim out	The state of the s	REPAIRS AND/O	REXPENSES	NOTE OF STREET	annother i
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authorized by	
	sisterio puno	VIOININGPAIIS	Latinated 0000	Work Author	200 15

Appendix C

Laboratory Analytical Report



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 07, 2015

John Ayarbe

Daniel B. Stephens & Assoc. 6020 Academy NE Suite 100

Albuquerque, NM 87109 TEL: (505) 822-9400 FAX (505) 822-8877

RE: Salty Dog OrderNo.: 1503A28

Dear John Ayarbe:

Hall Environmental Analysis Laboratory received 13 sample(s) on 3/24/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-1R

 Project:
 Salty Dog
 Collection Date: 3/20/2015 10:50:00 AM

 Lab ID:
 1503A28-001
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: LGT
Chloride	1200	50 * mg/L	100 3/25/2015 10:15:59	PM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-2

 Project:
 Salty Dog
 Collection Date: 3/20/2015 7:40:00 AM

 Lab ID:
 1503A28-002
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: LGT
Chloride	29	5.0	mg/L	10 3/25/2015 8:49:06 PM	M R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-3

 Project:
 Salty Dog
 Collection Date: 3/20/2015 10:10:00 AM

 Lab ID:
 1503A28-003
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: LGT
Chloride	35	5.0	mg/L	10 3/25/2015 10:53:13 F	PM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-4

 Project:
 Salty Dog
 Collection Date: 3/20/2015 8:35:00 AM

 Lab ID:
 1503A28-004
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: LGT
Chloride	33	5.0	mg/L	10 3/25/2015 11:18:02 F	PM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 4 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-5

 Project:
 Salty Dog
 Collection Date: 3/20/2015 9:20:00 AM

 Lab ID:
 1503A28-005
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	140	5.0	mg/L	10 3/25/2015 11:42:52 F	PM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 5 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-6

 Project:
 Salty Dog
 Collection Date: 3/19/2015 3:00:00 PM

 Lab ID:
 1503A28-006
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: LGT
Chloride	370	50 * mg/L	100 3/26/2015 12:20:06	AM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 6 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1503A28 Date Reported: 4/7/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-8

Project: Salty Dog **Collection Date:** 3/19/2015 5:30:00 PM 1503A28-007 Matrix: AQUEOUS Lab ID: Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	36	5.0	mg/L	10 3/26/2015 12:32:31 A	AM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range

Page 7 of 18

- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-9

 Project:
 Salty Dog
 Collection Date: 3/19/2015 6:15:00 PM

 Lab ID:
 1503A28-008
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	260	50 * mg/L	100 3/26/2015 1:34:33 AN	/ R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 8 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-3

 Project:
 Salty Dog
 Collection Date: 3/19/2015 4:30:00 PM

 Lab ID:
 1503A28-009
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	9700	500 * mg/L	1E 3/28/2015 9:39:45 AM	/I R25138

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 9 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-5

 Project:
 Salty Dog
 Collection Date: 3/19/2015 2:05:00 PM

 Lab ID:
 1503A28-010
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	1200	50 * mg/L	100 3/26/2015 2:24:11 AN	Л R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Injection Well

 Project:
 Salty Dog
 Collection Date: 3/20/2015 12:35:00 PM

 Lab ID:
 1503A28-011
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	t: LGT
Chloride	230	50	mg/L	100 3/26/2015 2:49:00 AM	R25078
SM4500-H+B: PH				Analys	t: JRR
рН	7.80	1.68	H pH units	1 3/26/2015 12:37:00 PM	/ R25085
SPECIFIC GRAVITY				Analys	t: JRR
Specific Gravity	0.9861	0		1 3/24/2015 12:31:00 PM	/ R25027
SM2540C MOD: TOTAL DISSOLV	ED SOLIDS			Analys	t: KS
Total Dissolved Solids	652	40.0	* mg/L	1 3/26/2015 4:44:00 PM	18322

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

Page 11 of 18

- ND Not Detected at the Reporting Limit Page 1
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report Lab Order 1503A28

Date Reported: 4/7/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Brine Well

 Project:
 Salty Dog
 Collection Date: 3/20/2015 12:20:00 PM

 Lab ID:
 1503A28-012
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qu	ıal 1	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: LGT
Chloride	160000	10000	*	mg/L	2E	3/28/2015 9:52:10 AM	R25138
EPA METHOD 200.7: METALS						Analys	t: JLF
Sodium	110000	5000		mg/L	1E	3/31/2015 4:41:50 PM	18395
SM4500-H+B: PH						Analys	t: JRR
рН	7.40	1.68	Н	pH units	1	3/26/2015 12:37:00 PM	/ R25085
SPECIFIC GRAVITY						Analys	t: JRR
Specific Gravity	1.174	0			1	3/24/2015 12:31:00 PM	/ R25027
SM2540C MOD: TOTAL DISSOLVED	SOLIDS					Analys	t: KS
Total Dissolved Solids	293000	2000	*	mg/L	1	3/26/2015 4:44:00 PM	18322

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit Page
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: PMW-1

 Project:
 Salty Dog
 Collection Date: 3/20/2015 11:40:00 AM

 Lab ID:
 1503A28-013
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: LGT
Chloride	8500	500 * mg/L	1E 3/28/2015 10:04:34 /	AM R25138

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 13 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1503A28**

07-Apr-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-18395 SampType: MBLK TestCode: EPA Method 200.7: Metals

Client ID: PBW Batch ID: 18395 RunNo: 25178

Prep Date: 3/28/2015 Analysis Date: 3/30/2015 SeqNo: 744019 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium ND 1.0

Sample ID LCS-18395 SampType: LCS TestCode: EPA Method 200.7: Metals

Client ID: LCSW Batch ID: 18395 RunNo: 25178

Prep Date: 3/28/2015 Analysis Date: 3/30/2015 SeqNo: 744020 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium 51 1.0 50.00 0 103 85 115

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1503A28**

07-Apr-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R25078 RunNo: 25078

Prep Date: Analysis Date: 3/25/2015 SeqNo: 740330 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R25078 RunNo: 25078 Prep Date: Analysis Date: 3/25/2015 SeqNo: 740331 Units: mg/L **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual

Chloride 4.9 0.50 5.000 0 97.9 90 110

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: R25078 RunNo: 25078 Prep Date: Analysis Date: 3/25/2015 SeqNo: 740382 Units: mg/L SPK value SPK Ref Val %REC LowLimit %RPD Result **PQL RPDLimit** Qual Analyte HighLimit

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: Batch ID: R25078 RunNo: 25078 LCSW Prep Date: Analysis Date: 3/25/2015 SeqNo: 740383 Units: mg/L Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Analyte
 Result
 PQL
 SPK value
 SPK Ref Val
 %REC
 LowLimit
 HighLimit
 %RPD
 RPD

 Chloride
 5.1
 0.50
 5.000
 0
 103
 90
 110

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R25138 RunNo: 25138

0.50

ND

Prep Date: Analysis Date: 3/27/2015 SeqNo: 742255 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R25138 RunNo: 25138 Prep Date: Analysis Date: 3/27/2015 SeqNo: 742256 Units: mg/L %RPD Result SPK value SPK Ref Val %REC HighLimit **RPDLimit** Analyte PQL LowLimit Qual

Chloride 5.0 0.50 5.000 0 99.1 90 110

Qualifiers:

Chloride

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1503A28**

07-Apr-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R25138 RunNo: 25138

Prep Date: Analysis Date: 3/27/2015 SeqNo: 742283 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1503A28

07-Apr-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID 1503A28-011ADUP SampType: DUP TestCode: SM4500-H+B: pH

Client ID: Injection Well Batch ID: R25085 RunNo: 25085

Prep Date: Analysis Date: 3/26/2015 SeqNo: 740585 Units: pH units

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

pH 7.80 1.68 H

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

P Sample pH Not In Range

Page 17 of 18

Hall Environmental Analysis Laboratory, Inc.

WO#: **1503A28**

07-Apr-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-18322 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 18322 RunNo: 25097

Prep Date: 3/25/2015 Analysis Date: 3/26/2015 SeqNo: 740843 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-18322 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 18322 RunNo: 25097

Prep Date: 3/25/2015 Analysis Date: 3/26/2015 SeqNo: 740844 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1030 20.0 1000 0 103 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmenial Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

RcptNo: 1 Work Order Number: 1503A28 Client Name DBS Received by/date: Celin Som Logged By: Celina Sessa Celin Som Completed By: Celina Sessa 3/24/2015 10:43:33 AM 03/24/15 Reviewed By: Chain of Custody Not Present V Yes 1. Custody seals intact on sample bottles? Yes V No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Client Log In No 🗌 NA _ 4. Was an attempt made to cool the samples? NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C Yes V No L Sample(s) in proper container(s)? 7 Sufficient sample volume for indicated test(s)? 8 Are samples (except VOA and ONG) properly preserved? Yes 9. Was preservative added to bottles? IMC HNOR -ORB for acliptable For Metals analysis adduct No VOA Vials No _ 10. VOA vials have zero headspace? Yes No V 11. Were any sample containers received broken? # of preserved bottles checked No . for pH: Yes V 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No. 13. Are matrices correctly identified on Chain of Custody? No 🗌 Yes V 14. Is it clear what analyses were requested? No _ Checked by: Yes V 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA V 16. Was client notified of all discrepancies with this order? Date Person Notified: In Person Via: eMail Phone Fax By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date Signed By Not Present 3.0 Good

Client:	Daniel B	. Stephen	stody Record s & Associates	Turn-Around Time: (S 53/24/5 Standard C Rush Project Name:						A	N		YS	SIS	L	AE	30			AL	
Mailing A	ddress:	6020 Aca	demy RD NE	Salt. Project #:	Dog			490	01 H	awki	ns N	NE -	Alb	uque	erque	e, NI	M 87	109			
Albuquer				Project #:	5			Te	el. 50	5-34	5-39	975	F	ах	505-	345-	410	7			
Phone #:		505-822-	9400									A	naly	sis	Req	uest					
email or QA/QC Pa □ Stand	ackage:	0	□ Level 4 (Full Validation)				's (8021)	(Gas only)	(Gas/Diesel)					,PO4,SO4)	2 PCB's				8		
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	0835		DBS-4			-004			ķ									×			
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Dr. Tomas Oberding New Mexico Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, NM 87505-4225

Re: 2015 Annual Class III Well Report

Salty Dog Brine Station

Dear Dr. Oberding:

On behalf of PAB Services, Inc., Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to submit the enclosed annual Class III well report for the operation of a brine well (API No. 30-025-26307) at the Salty Dog Brine Station in Lea County, New Mexico. The report documents brine production activities at the facility in 2015, and was prepared in accordance with the requirements of discharge permit (DP) BW-8.

Also included as an appendix to the report is an annual certification signed by Mr. Pieter Bergstein.

Please do not hesitate to call me at (505) 353-9137 or Mike at (505) 353-9130 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

John Ayarbe, P.G.

Senior Hydrogeologist

Michael D. McVey, C.P.G., P.G.

Senior Hydrogeologist

JA/rpf Enclosures

cc: Pieter Bergstein, PAB Services, Inc.

Jim Sayre, Salty Dog, Inc.

2015 Annual Class III Well Report Salty Dog Brine Station

DP BW-8, API No. 30-025-26307 Lea County, New Mexico

Prepared for

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

May 25, 2016



Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109



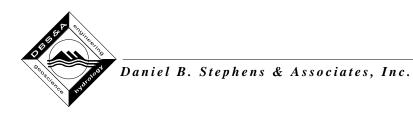
Daniel B. Stephens & Associates, Inc.

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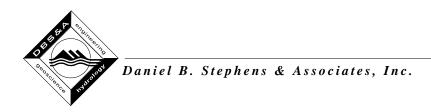
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- A Annual Certification
- B 2015 Monthly Fresh and Brine Water Report Forms
- C Laboratory Analytical Reports



2015 Annual Class III Well Report Salty Dog Brine Station DP BW-8, API No. 30-025-26307 Lea County, New Mexico

1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this annual Class III well report for submission to the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (OCD) Environmental Bureau on behalf of PAB Services, Inc. (PAB) for the operation of a brine well (Brine Supply Well #1 [API No. 30-025-26307]) at the Salty Dog Brine Station (the site). The site is located in Lea County, New Mexico, approximately 11 miles west of Hobbs, New Mexico along U.S. Highway 62/180 (Figure 1). This report summarizes operational and monitoring activities conducted at the site in 2015, and was prepared in accordance with the requirements of discharge permit (DP) BW-8, last renewed on November 8, 2013 (NMEMNRD, 2013). The submittal of this report meets Condition 2.J of the permit.

The most recent version of DP BW-8 stipulates several new monitoring and characterization requirements for the site (NMEMNRD, 2013). While PAB has implemented activities to meet most of these requirements, implementation of a subsidence monitoring program and brine cavern characterization study are still awaiting OCD work plan approval. A work plan for these two activities was submitted to OCD on September 17, 2014 (DBS&A, 2014b).

Appendix A provides an annual certification signed by Mr. Pieter Bergstein stating that continued salt solution mining will not cause cavern collapse, surface subsidence, property damage, or otherwise threaten public health and the environment based on geologic and engineering data.

Salty Dog is a brine water production and loading station, consisting of a fresh water supply well, a brine production well, and a concrete truck loading pad with two brine filling stations. Fresh water is stored in two 1,000-barrel (bbl) aboveground storage tanks (ASTs). Produced brine is pumped from the brine well to a bermed tank battery consisting of six 750-bbl ASTs,



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where the brine is stored for sale. The brine well is located approximately 0.5 mile southwest of the brine filling station (Figure 1). Figure 2 presents a 2014 aerial photograph of the brine station showing the layout of the current facility infrastructure.

Brine is produced from the in situ extraction of salt at the brine well, a UIC Class III well (Brine Supply Well #1 [API No. 30-025-26307]). The brine well is approximately 3,000 feet deep and has been in operation since the early 1980s. The Salty Dog brine well is configured for reverse circulation brine recovery, where fresh water is circulated down the casing annulus into the Salado Formation—a Permian Age sedimentary rock unit composed of halite (salt) and other evaporative beds. Fresh water dissolves the salt, and the brine is extracted through the center tubing of the well. Figure 3 shows a generalized schematic of the brine well illustrating its construction, tubing depths, and the penetrated geologic units.

The physical location of the brine well is 1,980 feet from south line (FSL) and 1,980 feet from east line (FEL) (NW/4 SE/4, Unit Letter J) in Section 5, Township 19 South, Range 36 East, New Mexico Principal Meridian (NMPM) (Figure 1). The brine well was installed in June 1979. The original discharge permit for the brine well (GWB-2) appears to have been issued on December 18, 1982 (OCD, 1994). The discharge permit was last renewed on November 8, 2013 (NMEMNRD, 2013).

Injection water used in brine production is obtained from the Ogallala Aquifer by pumping from the fresh water supply well and two on-site groundwater remediation wells (RW-1 and RW-2). The two remediation wells are used to remove and provide hydraulic containment of chloride-impacted groundwater. Depth to regional groundwater is approximately 60 feet below ground surface (bgs). Figure 4 shows the locations of the two extraction wells (RW-1 and RW-2).

2. Brine Well Operational Activities

The following subsections report fluid injection and brine production volumes and well maintenance activities.



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2.1 Fluid Injection and Brine Production

Except for an approximately 2-year shutdown between 2011 and 2013 and temporary interruptions for routine maintenance and testing (e.g., February 2009 sonar survey [SOCON, 2009]), the brine well has been in continuous operation since 1980, producing an average of approximately 10,500 barrels per month (bbl/mo) of brine between 1980 and 2009. This production rate is based on 1987, 1996–1999, and 2009 brine production and sales records (Salty Dog, 1988, 1999, and Undated).

Both fluid injection and brine production volumes are metered, and daily volumes are recorded on monthly fresh and brine water report forms (Appendix B). Table 1 summarizes monthly injection and production volumes for the reporting period. Injection water for the brine well comes from a fresh water well located immediately east of the truck loading pad and two groundwater remediation wells (RW-1 and RW-2) (Figure 4). Ratios of injected water to produced brine ranged from 1.01 to 1.12.

Table 1. Monthly Water Injection and Brine Production Volumes, 2015

	Volu	me (bbl)	Ratio ^a
Month	Water Injection	Brine Production	(injection:production)
January	36,600	32,598	1.12
February	14,045	33,473	_
March	_	35,250	_
April	6,250	39,210	_
May	47,700	47,340	1.01
June	45,310	52,000	_
July	71,740	70,987	1.01
August	46,860	46,015	1.02
September	47,500	45,360	1.05
October	39,195	36,868	1.06
November	48,200	45,353	1.06
December	46,350	43,429	1.08
Annual total	449,758	527,883	_

a Ratios calculated for those months when daily injection and production volumes are provided for the majority of the days within the month (Appendix B).
 bbl = Barrels



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Based on the data reported in Table 1 and previously reported production records (Salty Dog, 1988, 1999, and Undated; DBS&A, 2014a), the estimated cumulative volume of brine production is 5,109,777 bbl.

In 2015, brine production activities at Salty Dog dissolved an estimated 73,000 bbl of Salado Formation. This estimate is based on the brine production data reported in Table 1, the average total dissolved solids (TDS) concentrations of the produced brine and injection water reported in Table 2, and an assumed density of the Salado Formation of 2.17 grams per cubic centimeter (g/cm³). The total estimated size of the brine solution cavern is approximately 740,000 bbl, based on the historical and present brine production data. In 2012, OCD estimated a volume of 1,022,196 bbl for the Salty Dog solution cavern (NMEMNRD, 2012).

2.2 Injection Pressure

Pressure is monitored on the well tubing and recorded daily on the monthly fresh and brine water report forms (Appendix B). In 2015, recorded daily tubing pressure was 100 pounds per square inch (psi).

PAB has equipped the brine well with a Murphy pressure switch set to a maximum injection pressure of 250 psi. If the injection pressure exceeds 250 psi, the switch automatically shuts off fluid injection at the brine well.

2.3 Chemical and Physical Analyses

Condition 2.A of DP BW-8 requires quarterly monitoring of the chemical and physical characteristics of the injection water and produced brine, including pH, density, and TDS and chloride concentrations. The permit also requires that the sodium concentration of the produced brine be analyzed.

Table 2 reports average constituent concentrations calculated from the 2015 quarterly monitoring data. Dissolution of the Salado Formation increases the constituent concentrations and specific gravity of the produced brine relative to the injection water. The average TDS concentration and average specific gravity of the injection water are 651 milligrams per liter



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(mg/L) and 0.995, respectively, while the same properties of the produced brine are 301,250 mg/L and 1.19, respectively. Appendix C provides the laboratory analytical reports associated with 2015 monitoring.

Table 2. Injection Water and Produced Brine Chemical and Physical Characteristics

	Average Concentration (mg/L ^a)							
Constituent	Injection Water	Produced Brine						
pH (s.u.)	7.93	7.41						
Specific gravity (unitless)	0.995	1.19						
Chloride	215	182,500						
Sodium	_	98,750						
TDS	651	301,250						

^a Unless otherwise noted

mg/L = milligram per liter

s.u. = Standard units

TDS = Total dissolved solids

Historical water quality analyses show TDS concentrations of the fresh water and produced brine of approximately 600 mg/L and 320,000 to 350,000 mg/L, respectively (Martin, 1982; Unichem, 1987).

2.4 Deviations from Normal Operations

There were no deviations from normal operations in 2015.

2.5 Leaks and Spills

There were no leaks or spills in 2015.

2.6 Area of Review

Salty Dog did not discover any new wells or other conduits within a 1-mile radius of the brine well that penetrate or potentially penetrate to the Salado Formation (i.e., injection zone).



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Condition 3.L of DP BW-8 requires Salty Dog to report within 72 hours the discovery of any new wells, conduits, or other devices that are both within a 1-mile radius and may penetrate to the injection zone of the brine well.

Figure 5 shows the area within a 1-mile radius of the brine well presented on a 2014 aerial photograph. The brine station is located on private property in rural southeastern New Mexico, approximately 11 miles west of Hobbs. The majority of the area surrounding the site is undeveloped and owned by the State of New Mexico (Figure 5).

2.7 Mechanical Integrity Test

Mechanical integrity testing was not conducted in 2015. The last mechanical integrity test was performed on October 31, 2013, when Salty Dog conducted a Bradenhead test on the brine well. The test showed no problems with the integrity of the well casing. Results of this test were reported to OCD on November 15, 2013. Pursuant to 20.6.2.5204 New Mexico Administrative Code (NMAC), PAB is required to demonstrate mechanical integrity of the brine well at least once every five years.

3. Other Facility Activities

Other than the standard operating activities described above, there were no other major activities in 2015.

4. Subsidence Monitoring and Cavern Characterization

A work plan to satisfy Conditions 2.B.1 and 2.B.2 of the renewed DP BW-8 was submitted to OCD on September 17, 2014 (DBS&A, 2014b). This work plan describes the proposed technical approach to be used to satisfy the two permit conditions: (1) the design of survey monuments and establishment of a program to monitor for potential surface subsidence, and (2) investigation activities to characterize the size and shape of the solution cavern created by brine production. PAB is awaiting OCD review and approval of the work plan before implementing proposed subsidence monitoring and cavern characterization activities.



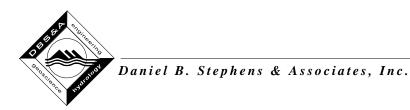
Daniel B. Stephens & Associates, Inc.

5. Groundwater Conditions

Salty Dog is addressing groundwater impacts resulting from releases at the brine well and a former brine pond. A hole in the casing of the brine well at 250 feet bgs was discovered in 1999 (Salty Dog, 1999). The hole released brine, impacting groundwater, and was repaired in August 1999 by installing a casing liner (Salty Dog, 1999). In October 2008, the brine pond was removed and impacted soil excavated and disposed of (DBS&A, 2008). The area of the former brine pond is shown in Figures 1 and 2.

Two chloride plumes currently exist at the site: one in the area of the brine station (i.e., the former brine pond area) and a second near the brine well. In 2009, extraction wells RW-1 and RW-2 were installed at the site to remove and provide hydraulic containment of brine-impacted groundwater at the brine station and near the brine well, respectively (DBS&A, 2009). Groundwater abatement and monitoring activities are being conducted to satisfy an administrative compliance order issued by OCD (ACO 2008-02) and settlement agreement and stipulated revised final order (NM-OCD 2008-2A) between OCD and Mr. Bergstein.

Groundwater monitoring and extraction data are reported and evaluated in reports submitted to OCD (DBS&A, 2016). The data include water levels and water quality at site monitor wells (Figure 4).



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Figures

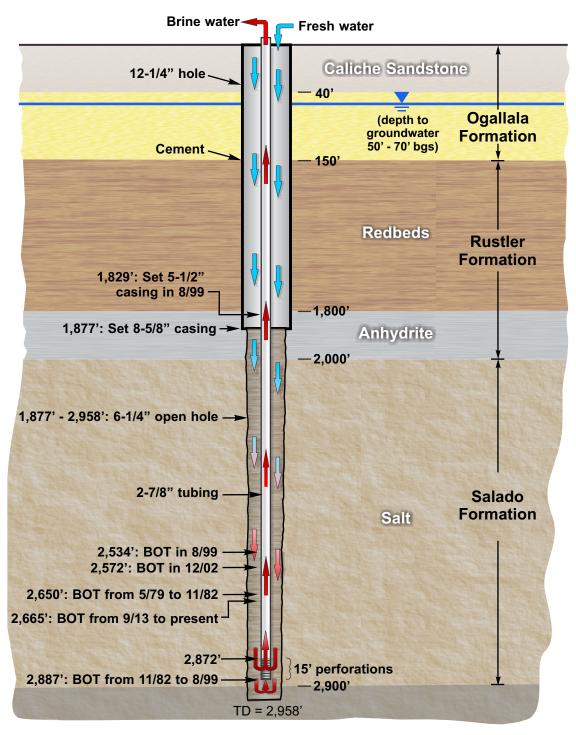
Water supply well

Daniel B. Stephens & Associates, Inc. JN ES08.0118.06

SALTY DOG BRINE STATION

2014 Aerial Photograph of Salty Dog Brine Station

Salty Dog Brine Well



Notes:

- 1. BOT = Bottom of tubing
- 2. Figure not to scale

Sources:

- 1. Completion data based on OCD well reports
- 2. Lithology from Salty Dog (1988)

SALTY DOG BRINE STATION

Generalized Brine Well Schematic



ROJECTS/ES08.0118.06 SALTY DOG DP BW-8\VR DRAWINGS\FIGO3 GENERALIZED BRINE WELL SCHEMATIC.CDF

Daniel B. Stephens & Associates, Inc. 5-23-16 JN ES08.0118.06

Figure 4

Area of Review

Figure State Daniel B. Stephens & Associates, Inc. JN ES08.0118.06

Appendix A Annual Certification

Annual Certification

PAB Services, Inc. certifies that continued salt solution mining will not cause cavern collapse, surface subsidence, property damage, or otherwise threaten public health and the environment based on geologic and engineering data.

Novin Brangstrady	Provilet
Name	Title
	5/24/16
Signature	Date

Appendix B

2015 Monthly Fresh and Brine Water Report Forms

	MONTH/YEAR J	AN 20	15		
	Complete Annual Complete Compl		2000年4月1日日本	times although the second	
	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRES WATE
Date	BBLS	BBLS SOLD	PSI	PSI	SOLI
1	1500	1/205			y
2	800	1555			
3	500	130			
4	500	260			
5	500	130			
6	1500	2055			
7	1800	1286			-
8	1800	1285			
9	1500	1430			
10	1000	960			
11	0	-0			
12	1000	1295			
13	1500	1900			
14	1800	1995			
15	2000	2/80			390
16	1800	2130			130
17	1800	1270			295
18	1800	2050			260
19	1500	1,100			130
20	1000	730			130
21	1800	1891			780
22	900	450			10
23	500				
24	500	260			-
25		250			-
26	500	821			520
	1500	1460	-		
27	1000	860	-		40
	1000	140			
29	1000	330			95
30	1000	810			
31	500	110			1 70
TALS	35400	31,313			2,302
7. 1 3.2		REPAIRS AND/O	MEXHENNED		
ate	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Author	ized by
ate	Work/Repairs		Estimate	d Cost	ed Cost Work Author

FACILITY/LOCATION	Salty	Dog	
MONTH/YEAR	Feb.	2015	

ESH BRINE WATER OUT OF HOLE BBLS SOLD 450 2210 1940 1865 2390 1746 1344	R DAILY TUBING	DAILY CASING PRESSURES PSI	FRESH WATER SOLD
450 2210 1940 1865 2390 1746 1344	PSI	PSI	SOLD
2210 1940 1865 2390 1746 1344			
1940 1865 2390 1746 1344			
1865 2390 1746 1344			
2390 1746 1344			650
1746			550
1344			390
			1696
1306			
130			130
690			
1790 1710			
1090			
1225			100
3075			V.V.
2.110		T - 1	
14.85			1010
1900		9	486
2035			136
1698			100
2095			
480			
130			
130			
245			
~10			1550
	+		
			910
			130
	+		
	4		
22 1/22			
33,473 REPAIRS AND	OR EXPENSES	The facility of the residence	T. Property
The same and		INTO SELECTION OF THE SECOND S	ICATONICS AND
		Work Authori	zed by
		Descritpion of Work/Repairs Estimated Cost	

FACILITY/LOCATION SALTY DOC MONTH/YEAR MARCH

Date	DOWN HOLE	OUT OF HOLE	PRESSURES	PRESSURES	WATER
	BBLS	BBLS SOLD	PSI	PSI	SOLD
_1	0	0			0
2	0	260			3403000 GC
3		1225 025			810
4		915			-6
5		3210			296
6		1950	N and the second		26
7		1170			130
8		1885			1040
9		540			605
10		1000			680
11		2365			536
12		1350			2
13		#			90
14		1285			
15		240			+
16		1745			
17		2035			
18		1580			
19		1500			
20		1065			
21		520			
22		520			
23		2110			
24		580			30
25		1530			-5
26		350			130
27		600			390
28		390			1
29		0			
30		1140			
31		1640			
TOTALS		35,250			5,185
A TOTAL		REPAIRS ANDIO	REXPENSES		
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Author	rized by

	MONTH/YEAR	No il mil			COLUMN TO STATE OF THE PARTY OF
PARTITION SOLITOR		Agril 2015			
	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	700	640	100	350	100
2	2500	2965	100	400	38
3	1200	1030	100	350	
4	1850	1105	100	350	
5	1.0	700			120
6		2690			
7		1080			110
8		2095			290
9		650			190
10		670			480
11		1455			125
12		1450			/30
13		1050			50
15		1345			25
16		2305			
17		1550			1.1
18		2110			65
19					130
20		1010			
21		1310			40
22		1460			5
23		1030			380
24		990			195
25		750			280
26		430			
27		1310			375
		330		1	7.50
29		850		(125 625
30		350			900
31					
TOTALS	6250	39,210			
20		REPAIRS AND/O	REXPENSES		
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authori	zed by

TH/YEAR	May 2015			
	STATE OF BUILDING AND	NATE OF BUILDING STORE		
JNT OF FRESH TER PUMPED DWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	PRESSURES	DAILY CASING PRESSURES	WATER
BBLS	BBLS SOLD	PSI	PSI	SOLD
2006	1930	100	350	30
1400	1310	100	350	488
3000	3210	1	356	40
1600	1620		350	425
2800	2595		350	182
2700	2580		350	
5500	3980		350	75
3400	2310		350	145
800	1795		350	130
500	1230 3180		350	190
200	1185		350	61
7100	2070		350	296
1000	900		350	
500	2450		350	
200	960		350	76
00	420		350	36
0	236		350	166
00	890		350	511
100	1320		350	330
00	1150	/	350	
00	1490		350	130
000	2050		550	610
000	1410		350	1206
00	690		350	971
90	630		350	100
)	420	/	350	66
00	2.60		350	
90	220		350	
500	2110		350	
00	1945		350	226
	1110			
1,200	47,340	/		6.4.67
		REXPENSES		
ompany rforming rk/Repairs	Descritpion of Work/Repairs		Work Author	ized by
omp	oany ming	pany ming Descritpion of	pany ming Descritpion of	pany ming Descritpion of

	FACILITY/LOCATION	1 1 2 1	109		
	MONTH/YEAR	And 2015			
	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	950				230
2	BAD 1440				260
3	DE 1180				260
4	Per 1750				7-60
5	2535				260
6	2095				575
7	1353		-		370
52g	1480 23/0				
10	1105 570				
11				200000	5.
12	2060				30
13	690			-	115
14	900				3.
15					30
16	600				200
17	850 210				
18	1795				840
19	1458				210
20	2355				
21	1705				
22	32,25		1		
23	1040			1	
24	1030		·		
25	995				7
26	1010				40
27	3770				245
28	1160		7		170
29	1510				
30	880				
31	610				
OTALS	45248	52000			4.390
No. 4		REPAIRS AND/O	REXPENSES		
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Author	ized by
5.23					

FACILITY/LOCATIO	N SALTY Dog
MONTH/YEAR	Jung your

Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	BBLS 2500 3800 2200 500 2400 3600 4000 2100 2300 3000 4000	BBLS SOLD 2 430 4050 1760 890 2220 4029 3220 1915 2158 3130 4280	PSI 100 100 100 100 100 100 100 10	PSI 350 375 350 350 350 350 350 350 350 35	SOLD 640 406 130 286 220 417 385 185
2 3 4 5 6 7 8 9 10 11 12 13	3800 2200 500 2400 3600 4000 2300 3000 4000	4050 1760 890 2220 4029 3220 1915 2158 3130	100 100 100 100 100 100	375 350 350 350 350 350 350 350	406 136 286 220 417 385
3 4 5 6 7 8 9 10 11 12 13	3800 2200 500 2400 3600 4000 2300 3000 4000	4050 1760 890 2220 4029 3220 1915 2158 3130	(00 100 100 100 100 100	350 350 350 350 350 350 350	136 286 220 417 385
4 5 6 7 8 9 10 11 12 13	2200 500 2400 3600 4000 2100 2300 3000 4000	890 2220 4029 3220 1915 2158 3130	100 100 100 100 100	350 350 350 350 350 350	286 220 417 385
5 6 7 8 9 10 11 12 13	2400 3600 4000 2100 2300 3000 4000	2220 4029 3220 1915 2158 3130	100 100 100 100 100	350 350 350 350	286 220 417 385
6 7 8 9 10 11 12 13	3600 4000 2100 2300 3000 4000 2700	4029 3220 1915 2158 3130	100	350 350 350 350	220 417 385
7 8 9 10 11 12 13	4000 2100 2300 3000 4000 2700	4029 3220 1915 2158 3130	100 100 100	350 350 350	417 385
8 9 10 11 12 13 14	2100 2300 3000 4000 2700	1915 2158 3130	100	350 350	385
9 10 11 12 13 14	2300 3000 4000 2700	1915 2158 3130	100	350	
10 11 12 13 14	3000 4000 2700	3/30		350	100
11 12 13 14	4000 2700		100		100
12 13 14	2700	4280	/ -	350	600
13 14			100	325	30
14		2660	100	325	130
	2800	2665	100	300	145
15	1250	1785	100	325	30
	1900	1865	100	300	220
16	2600	2525	100	300	545
17	2070	2090	100	325	310
18	1000	845	100	300	
19	1500	1335	100	325	
20	2000	2035	100	350	
21	1900	1890	100	325	190
22	1200	1170	100	325	
23	2200	2135	100	350	
24	4600	4485	100	375	
25	1900	1920	100	350	
26	1000	1085	100	325	
27	1000	1680 1660	(80	350	
28	1900	1820	100	350	
29	1500	1340	100	350	61
30	2400	2260	100	375	186
31	3400	3335	100	325	426
TOTALS	11,740	10,987			5,542
agenta contact		REPAIRS AND/OI	REXPENSES		de la company
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Authori	zed by

FACILITY/LOCATION SACTY DOG MONTH/YEAR August

17	P 100 1 10	0	100	375 375	
19	2300 1800 2300	1830 2 1 00	100	375 375 375	50
20 21	2000	2195	100	375 375	30
22	1400	1440	100	375	
24 25	800 2200	2140	100	375 375	1016
26	1500	1660	100	375	640
28	1200	1100	100	375	210
30	1700	1730	100	375 375	210
31	400	395	100	375	

MONTH/YEAR SEPT WIS

	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	1700	1685	100	375	36
2	1900	1780	100	375	
3	1200	1310	100	375	91
4	1000	1070	100	375	58
5	3000	2980	100	375	
6	1100	1030	100	375	
7	1000	940	100	375	
8	1900	1730 000	100	375	86
9	2000	1995 1755	100	375	36
10	1200	1380	100	375	
11	1600	1520	100	375	166
12	1600	1750	100	375	
13	1000	350	100	375	30
14	1700	1690	100	375	61
15	2200	2170	100	375	275
16	1000	875	100	375	50
17	1200	1135	100	375	247
18	1800	1940	100	375	
19	1800	1800	100	375	
20	1700	1560	100	375	130
21	1000	730	100	375	35
22	1000	980	100	375	91
23	1300	1260	100	375	131
24	1000	700	100	375	25
25	1300	1360	100	375	9/
26	500	. 300	100	375	100
27	1500	1475	100	375	100
28	1800	1700	100	37.5	30
29	3400	3306	100	375	206
30	3200	3/05	100	375	166
31		5,00	10.5		, , ,
TOTALS	47,500	45,380			2,15%
100 × 1		REPAIRS AND/O	REXPENSES	1 2000年前1996	
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Author	ized by

FACILITY/LOCATION
MONTH/YEAR

Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	BBLS 900 1200 1500 1800 2500 1000 2000 1400 1000 500 1200 1200 1200 1500 2100	BBLS SOLD 390 1180 1490 1780 2310 725 2080 1290 1040 210 350 320 760 1130 525	PSI /00 /00 /00 /00 /00 /00 /00 /00 /00 /0	PSI 300 3/0 3/0 300 320 320 320 320 340 340 340 340 340 340 340 340 340 34	\$0LD 135 66 240 430 91 415 311 120 50 130 51 61
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	1200 1500 1800 2500 1000 2000 1400 1000 1000 1200 1000 1000 1000 1000 1000	1180 1690 1780 2310 725 2080 1290 1040 210 350 320 760 1130 525 525	100 100 100 100 100 100 100 100 100 100	3/0 300 320 320 320 340 340 340 340 340 340 340 34	240 430 91 415 311 120 50 130 51 61
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	1500 1800 2500 1000 2000 1400 1000 500 -0 1000 1200 1000 1000 1000 1000 1000	1690 1780 2310 725 2080 1290 1040 210 350 320 760 1130 525 525	100 100 100 100 100 100 100 100 100 100	300 320 320 320 340 340 340 340 340 340 340 34	240 430 91 415 311 120 50 130 51 61
4 5 6 7 8 9 10 11 12 13 14 15 16 17	1800 2500 1000 2000 1400 1000 500 -0 1000 1200 1000 1500	1690 1780 2310 725 2080 1290 1040 210 350 320 760 1130 525 525	100 100 100 100 100 100 100 100	320 320 320 340 340 340 340 340 340 340 34	430 91 415 311 120 50 130 51 61
5 6 7 8 9 10 11 12 13 14 15 16 17	2500 1000 2000 1400 1000 500 -0 1000 1200 100 100 1500	2310 725 2080 1290 1040 210 350 320 760 1130 525 525 1333	100 100 100 100 100 100 100 100 100	320 350 340 340 340 340 340 340 340 340 340	91 415 311 120 50 130 130 51 61
6 7 8 9 10 11 12 13 14 15 16 17	1000 2000 1400 1000 500 -0 1000 1200 1000 1000 1000 1000 1000	725 2080 1290 1040 210 350 320 760 1130 525 525	100 100 100 100 100 100 100 100	350 340 340 340 340 340 340 340 340 340	415 311 120 50 130 130 51 61
7 8 9 10 11 12 13 14 15 16 17	2000 1400 1000 500 -0 1000 1200 100 400 1500	2080 1290 1040 210 350 320 760 1130 525 525	100 100 100 100 100 100 100	340 340 340 340 340 340 340 340 340	3/1 120 5U 130 130 51 61
8 9 10 11 12 13 14 15 16 17	1400 1000 500 -0 1000 1200 100 400 1500	1290 1040 210 350 320 760 1130 525 525	100 100 100 100 100 100 100	340 340 340 340 340 346 346 340	120 50 130 130 51 61
9 10 11 12 13 14 15 16 17	1000 500 -0 1000 1200 100 400 1500	1040 210 350 320 760 1130 525 525 1333	100 100 100 100 100 100	340 340 340 340 340 340 340	50 30 30 51 61
10 11 12 13 14 15 16 17 18	500 -0 1000 1200 100 400 1500	210 350 320 760 1130 525 525	100 100 100 100 100 100	340 340 340 340 346 340	130 130 51 61
11 12 13 14 15 16 17 18	1000 1200 1200 100 400 1500	350 320 760 1130 525 525	100 100 100 100 100	340 340 340 346 340 340	130 51 61
12 13 14 15 16 17 18	1000 1200 100 400 1500	320 760 1130 525 525	100 100 100 100	340 340 346 340 340	61
13 14 15 16 17 18	1000 1200 100 400 1500	320 760 1130 525 525	100 100 100	340 346 340 340	61
14 15 16 17 18	1000 1200 100 400 1500	760 1130 525 525	100	340 340 340	61
15 16 17 18	100 400 1500	1/30 525 \$ 1333	100	340 340	100
16 17 18	1500	525	100	340	100
17 18	1500	1333		340	
18	1500	1333			
				270	10
19		2025	100	346	115
	0	D	100	340	
20	2000	250 1940	100	390	68
21	1000	100	100	340	61
22	900	635	100	340	276
23	3000	3910	100	350	202
24	2500	2040	100	350	225
25	1400	1080	100	3.50	0
26	1000	230	100	350	186
27	1000	680	100	360	200
28	1000	650	100	366	45
29	1500	1220	100	360	96
30	1695 +000	1695	100	370	60
31	1500	1320	100	370	
TOTALS	39,195	34,888			3.874
Name and Park		REPAIRS AND/OF	REXPENSES		10
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Author	ized by

	FACILITY/LOCATION	N SALTY DO	od		
	MONTH/YEAR No		/		
	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH WATER
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
1	1500	1430	100	360	135
2	600	490	100	360	80
3	2800	2760	100	360	160
4	2000	1880	100	370	6/20
5	3250	3190	100	370	50
6	1750	1615	100	375	66
7	1000	270	100	375	
8	1400	1230	100	375	
9	1500	1505,	100	375	
10	1000	975	100	375	
11	1000	875	100	375	
12	2000	1710	100	375	
13	2200	2405 1338	100	375	575
14		320	100	375	0,5
15	700	550	100	375	
16	1600		100	375	/30
17	800	1295 948 585			
18	2000		100	375 375	166
19	2000	1915	100	375	454
20		1985	100		33)
21	1900	1700	100	379	
22	1800	790	100	375 375	150
		1720	100		3
23	1000	1480	100	375	
24	2000	1818	100	375	_ 600
25	3000	3015	100	375	38
26	1000	830	100	375	
27	2000	1180	100	375	
28	2 800	2545	100	375	
29	1000	610	100	375	
30	1800	1590	100	373	366
31					
OTALS	46,200	45,353			3,422
	Tale V	REPAIRS AND/O	REXPENSES		
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Author	zed by

9750

MONTH/YEAR Decols

BBLS 2000 3000 1700 3500 500 100 2900 1200	BBLS SOLD 1950 3030 1615 3435 8/0 620 1720 3140 1105 3160 1050 2290 1120 1280 550 7/0 1830	PSI /00 /00 /00 /00 /00 /00 /00 /	PSI 375 375 375 375 375 375 375 375 375 375	\$0LD 236 365 265 460 65 136 136 136 196 48 199 204
3000 1700 3500 500 100 1000 1200 1000 1000	3030 1615 3435 8/0 620 1720 3, 960 1105 2160 1040 2100 1050 2290 1120 1390 1280 550 2/0	100 100 100 100 100 100 100 100	375 375 375 375 375 375 375 375 375 375	365 265 460 65 36 136 136 196 48 199 204
1700 3500 500 100 2900 1000 1200 1200 1200 1200 1200 1200 1200 1400 1300 1000 1000 1000	1615 3435 8/0 620 1720 3 960 1105 2160 1040 2100 1050 2290 1120 1390 1280 550 2/0	100 100 100 100 100 100 100 100	375 375 375 375 375 375 375 375	265 460 65 36 136 136 196 48 199 204
3500 500 100 2900 1000 1200 1200 1200 1200 1200 1200 1200 1400 1300 1000 1000 1000	3435 8/0 620 1720 33 960 1105 2160 1040 2100 1050 2290 1120 1390 1280 550 2/0	100 100 100 100 100 100 100 100	375 375 375 375 375 375 375 375	460 36 136 136 106 50 48 199 204
500 100 2900 1000 1200 1200 1200 1200 1050 1200 1400 1300 1000 1000 1000	8/0 620 1720 3, 960 1105 2160 1040 2100 1050 2290 1120 1390 1280 550	100 100 100 100 100 100 100 100	375 375 375 375 375 375 375 375	136 136 136 106 50 48 199 204
100 2900 1000 1200 2200 1200 2200 1050 2800 1200 1400 1300 1000 1000 2000	620 2720 740 1105 2160 1040 2100 1050 2290 1120 1390 1280 550 710	100 100 100 100 100 100 100 100 100 100	375 375 375 375 375 375 375 375	36 136 106 50 48 199 204
2900 1000 1200 2200 1200 2200 2500 1200 1400 1300 1000 1000 2000	1720 960 1105 1160 1040 2100 1050 2290 1120 1390 1280 550 710	100 100 100 100 100 100 100 100 100	375 375 375 375 375 375 375 375	36 136 106 50 48 199 204
1000 1200 1200 1200 1200 1050 2500 1200 1400 1300 1000 1000 2000	960 1105 2160 1040 2100 1050 2290 1120 1390 1280 550	100 100 100 100 100 100 100 100	375 375 375 375 375 375 375 375 375 375	36 136 106 50 48 199 204
1200 1200 1200 1200 1050 2500 1200 1400 1300 1000 1000 2000	1105 2160 1040 2100 1050 2290 1120 1390 1280 550 210	100 100 100 100 100 100 100 100	375 375 375 375 375 375 375 375 375	36 136 106 50 48 199 204
1200 1200 1200 1200 1050 2500 1200 1400 1300 1000 1000 2000	21.60 10.40 21.00 10.50 22.90 11.20 13.90 12.80 550	100 100 100 100 100 100 100	375 375 375 375 375 375 375 375 375	136 106 50 48 199 204
1200 2200 1050 2500 1200 1400 1300 1000 1000 2000	1040 2100 1050 2290 1120 1390 1280 550	100 100 100 100 100 100	375 375 375 375 375 375 375 375	106 50 48 199 204
2200 1050 2500 1200 1400 1300 1000 1000 2000	2100 1050 2290 1120 1390 1280 550	100 100 100 100 100 100	375 375 375 375 375 375 375	50 48 199 204
1050 2500 1200 1400 1300 1000 1000	1050 2290 1120 1390 1280 550	100 100 100 100 100	375 375 375 375 375 375	50 48 199 204
2500 1200 1400 1300 200 1000 2000	2290 1120 1390 1280 550	100 100 100 100	375 375 375 375 375	48 199 204
1200 1400 1300 200 1000	1120 1390 1280 550	100 100 100	375 375 375 375 375	48 199 204
1400 1300 100 1000 2000	1390 1280 550 210	100 100	375 375 375	204
1300 100 1000 2000	1280 550 710	100	375 375	204
700 1000 2000	550 2/0	100	375	
2000	2/0			165
2000	2/0	100	325	155
	1830			120
2700	1000	100	37.5	
1200	2020	100	375	30
2000	1830	100	375	
1400	1220	100	375	120
200	100	100	375	
200	0	100	375	
400	385	100	375	
400	325	100	375	
1000	830	100	375	
2100	1990	100	375	
1000	934	100	375	
2200	2030	100	375	
461350	43,429			2,468
STATE OF THE STATE	REPAIRS AND/O	REXPENSES		
	Descritpion of Work/Repairs	Estimated Cost	Work Author	ized by
	400 400 1000 2100 1000 2200 Ye 1250	400 385 400 325 1000 830 2100 1990 1000 934 2200 2030 Ye 1250 Ya 1229 REPAIRS AND/OI Company Performing Descritpion of	400 385 100 400 325 100 1000 830 100	400 385 100 375 100 375 1000 325 100 375 1000

1100

MONTHLY FRESH & BRINE WATER REPORT

MONTH/YEAR Dec 2014

	AMOUNT OF FRESH WATER PUMPED DOWN HOLE	AMOUNT OF BRINE WATER OUT OF HOLE	DAILY TUBING PRESSURES	DAILY CASING PRESSURES	FRESH
Date	BBLS	BBLS SOLD	PSI	PSI	SOLD
_1	1960	1960		8	
2	1301	130/			130
_ 3	1040	1040			136
4	990	990)	
5	300	300			
6	1040	1040			
7	520	520			268
8	1380	1380			
9	1403	1403			
10	3495	34.95			
11	2275	2275		1	
12	1760	1760			130
13	2030	2030			130
14	2394	2394		1	
15	2960		Lancia de		
16	180	180		1	215
17	3270	3270			320
18	3495	3495			1240
19	2180	2/80			
20	3350	3350			
21	2030	2030			
22	2.890	2890			
23	2,125	2/25			
24	1630	1630			
25	420	480			
26	1310	1310			
27		846			
28	: 2390	2390			
29	1245	1245			
30	1240				
31	240	240			
OTALS	54293.	60097	D EVERTICES.	Million Committee Committee	Dr. Balliony
THE PARTY OF		REPAIRS AND/O	REXPENSES	THE THE PERSON	Mark Control
Date	Company Performing Work/Repairs	Descritpion of Work/Repairs	Estimated Cost	Work Author	ized by

Appendix C

Laboratory Analytical Reports



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 07, 2015

John Ayarbe

Daniel B. Stephens & Assoc. 6020 Academy NE Suite 100 Albuquerque, NM 87109

TEL: (505) 822-9400 FAX (505) 822-8877

RE: Salty Dog OrderNo.: 1503A28

Dear John Ayarbe:

Hall Environmental Analysis Laboratory received 13 sample(s) on 3/24/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-1R

 Project:
 Salty Dog
 Collection Date: 3/20/2015 10:50:00 AM

 Lab ID:
 1503A28-001
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: LGT
Chloride	1200	50 * mg/L	100 3/25/2015 10:15:59 I	PM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-2

 Project:
 Salty Dog
 Collection Date: 3/20/2015 7:40:00 AM

 Lab ID:
 1503A28-002
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qu	al Units	DF Date Ana	alyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	29	5.0	mg/L	10 3/25/2015	5 8:49:06 PM	R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-3

 Project:
 Salty Dog
 Collection Date: 3/20/2015 10:10:00 AM

 Lab ID:
 1503A28-003
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: LGT
Chloride	35	5.0	mg/L	10 3/25/2015 10:53:13 F	PM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-4

 Project:
 Salty Dog
 Collection Date: 3/20/2015 8:35:00 AM

 Lab ID:
 1503A28-004
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	33	5.0	mg/L	10 3/25/2015 11:18:02 F	PM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-5

 Project:
 Salty Dog
 Collection Date: 3/20/2015 9:20:00 AM

 Lab ID:
 1503A28-005
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qua	l Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	140	5.0	mg/L	10 3/25/2015 11:42:52 F	PM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-6

 Project:
 Salty Dog
 Collection Date: 3/19/2015 3:00:00 PM

 Lab ID:
 1503A28-006
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: LGT
Chloride	370	50 * mg/L	100 3/26/2015 12:20:06	AM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-8

 Project:
 Salty Dog
 Collection Date: 3/19/2015 5:30:00 PM

 Lab ID:
 1503A28-007
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	36	5.0	mg/L	10 3/26/2015 12:32:31 A	AM R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-9

 Project:
 Salty Dog
 Collection Date: 3/19/2015 6:15:00 PM

 Lab ID:
 1503A28-008
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	260	50 * mg/L	100 3/26/2015 1:34:33 AM	/I R25078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-3

 Project:
 Salty Dog
 Collection Date: 3/19/2015 4:30:00 PM

 Lab ID:
 1503A28-009
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	9700	500 * mg/L	1E 3/28/2015 9:39:45 AM	/ R25138

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-5

 Project:
 Salty Dog
 Collection Date: 3/19/2015 2:05:00 PM

 Lab ID:
 1503A28-010
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS			Analy	st: LGT		
Chloride	1200	50 * mg/L	100 3/26/2015 2:24:11 AM	M R25078		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report Lab Order 1503A28

Date Reported: 4/7/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Injection Well

 Project:
 Salty Dog
 Collection Date: 3/20/2015 12:35:00 PM

 Lab ID:
 1503A28-011
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	Result RL Qual Units DF Date Analyz							
EPA METHOD 300.0: ANIONS				Analys	t: LGT				
Chloride	230	50	mg/L	100 3/26/2015 2:49:00 AM	R25078				
SM4500-H+B: PH				Analys	t: JRR				
рН	7.80	1.68	H pH units	1 3/26/2015 12:37:00 PM	/ R25085				
SPECIFIC GRAVITY				Analys	t: JRR				
Specific Gravity	0.9861	0		1 3/24/2015 12:31:00 PM	/ R25027				
SM2540C MOD: TOTAL DISSOLV	ED SOLIDS			Analys	t: KS				
Total Dissolved Solids	652	40.0	* mg/L	1 3/26/2015 4:44:00 PM	18322				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 11 of 18
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report Lab Order 1503A28

Date Reported: 4/7/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Brine Well

 Project:
 Salty Dog
 Collection Date: 3/20/2015 12:20:00 PM

 Lab ID:
 1503A28-012
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units		DF Date Analyzed Bate	ch
EPA METHOD 300.0: ANIONS				Analyst: LGT	Γ
Chloride	160000	10000 *	mg/L	2E 3/28/2015 9:52:10 AM R25	138
EPA METHOD 200.7: METALS				Analyst: JLF	:
Sodium	110000	5000	mg/L	1E 3/31/2015 4:41:50 PM 1839	95
SM4500-H+B: PH				Analyst: JRR	₹
рН	7.40	1.68 H	pH units	1 3/26/2015 12:37:00 PM R250	085
SPECIFIC GRAVITY				Analyst: JRR	₹
Specific Gravity	1.174	0		1 3/24/2015 12:31:00 PM R250	027
SM2540C MOD: TOTAL DISSOLVED	SOLIDS			Analyst: KS	
Total Dissolved Solids	293000	2000 *	mg/L	1 3/26/2015 4:44:00 PM 1832	22

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 12 of 18
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503A28**Date Reported: **4/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: PMW-1

 Project:
 Salty Dog
 Collection Date: 3/20/2015 11:40:00 AM

 Lab ID:
 1503A28-013
 Matrix: AQUEOUS
 Received Date: 3/24/2015 10:35:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS			Anal	yst: LGT		
Chloride	8500	500 * mg/L	1E 3/28/2015 10:04:34 /	AM R25138		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1503A28

07-Apr-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-18395 SampType: MBLK TestCode: EPA Method 200.7: Metals

Client ID: PBW Batch ID: 18395 RunNo: 25178

Prep Date: 3/28/2015 Analysis Date: 3/30/2015 SeqNo: 744019 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium ND 1.0

Sample ID LCS-18395 SampType: LCS TestCode: EPA Method 200.7: Metals

Client ID: LCSW Batch ID: 18395 RunNo: 25178

Prep Date: 3/28/2015 Analysis Date: 3/30/2015 SeqNo: 744020 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium 51 1.0 50.00 0 103 85 115

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

4.9

ND

5.1

WO#: 1503A28

07-Apr-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Chloride

Chloride

Chloride

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBW** Batch ID: R25078 RunNo: 25078

0.50

0.50

0.50

Prep Date: Analysis Date: 3/25/2015 SeqNo: 740330 Units: mg/L

5.000

5.000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R25078 RunNo: 25078 Prep Date: Analysis Date: 3/25/2015 SeqNo: 740331 Units: mg/L **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual

0

97.9

103

90

110

110

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: R25078 RunNo: 25078 Prep Date: Analysis Date: 3/25/2015 SeqNo: 740382 Units: mg/L SPK value SPK Ref Val %REC LowLimit %RPD Result **PQL RPDLimit** Qual Analyte HighLimit

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: Batch ID: R25078 RunNo: 25078 LCSW Prep Date: Analysis Date: 3/25/2015 SeqNo: 740383 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions PBW RunNo: 25138 Client ID: Batch ID: R25138 Prep Date: Analysis Date: 3/27/2015 SeqNo: 742255 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R25138 RunNo: 25138 Prep Date: Analysis Date: 3/27/2015 SeqNo: 742256 Units: mg/L %RPD Result SPK value SPK Ref Val %REC HighLimit **RPDLimit** Analyte PQL LowLimit Qual

Chloride 0.50 5.0 5.000 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Reporting Detection Limit

P

Sample pH Not In Range

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1503A28**

07-Apr-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R25138 RunNo: 25138

Prep Date: Analysis Date: 3/27/2015 SeqNo: 742283 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1503A28**

Н

07-Apr-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID 1503A28-011ADUP SampType: DUP TestCode: SM4500-H+B: pH

Client ID: Injection Well Batch ID: R25085 RunNo: 25085

Prep Date: Analysis Date: 3/26/2015 SeqNo: 740585 Units: pH units

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

pH 7.80 1.68

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1503A28**

07-Apr-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-18322 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 18322 RunNo: 25097

Prep Date: 3/25/2015 Analysis Date: 3/26/2015 SeqNo: 740843 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-18322 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 18322 RunNo: 25097

Prep Date: 3/25/2015 Analysis Date: 3/26/2015 SeqNo: 740844 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1030 20.0 1000 0 103 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory 1901 Hawkins NE Albuqueraue, NM 87109

TEL: 505-345-3975 FAX: 503-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Work Order Number: 1503A28 RcptNo. 1 Client Name DBS 03/24/15 Received by/date: alin Som Logged By Celina Sessa Celian Som Completed By: Celina Sessa 3/24/2015 10:43:33 AM 03/24/15 Reviewed By: Chain of Custody Not Present V 1. Custody seals intact on sample bottles? Yes Not Present Yes Y 2. is Chain of Custody complete? 3 How was the sample delivered? Client Log In NA . No 🗌 4. Was an attempt made to cool the samples? No I NA Were all samples received at a temperature of >0° C to 6.0°C. Yes V Yes V No L Sample(s) in proper container(s)? No . 7 Sufficient sample volume for indicated test(s)? No _ 8 Are samples (except VOA and ONG) properly preserved? No V Yes _ 9. Was preservative added to bottles? For Metals analysis work IMIL HNOS 26 No 10. VOA vials have zero headspace? No V 11. Were any sample containers received broken? Yes # of preserved bottles checked No for pH: Yes V 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No I 13. Are matrices correctly identified on Chain of Custody? Yes V Yes V 14 Is it clear what analyses were requested? Checked by Yes V No 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes NA V 16. Was client notified of all discrepancies with this order? Date Person Notified: eMail In Person Via: Phone Fax By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No | Temp C | Condition | Seal Intact | Seal No | Seal Date Signed By Not Present 3.0 Good

Client: Daniel B. Stephens & Associates			Turn-Around Standard Project Name	3/24/15 Rush		E			A	N		YS	SIS	L	AE	30			AL		
Mailing A	ddress:	6020 Aca	demy RD NE	Salty Dog		4901 Hawkins NE - Albuquerque, NM 87109															
	Albuquerque, NM 87109		Project #: (Project #: 0			Tel. 505-345-3975 Fax 505-345-4107														
Phone #:		505-822-	9400									A	nal	/sis	Req	uest					
email or Fax#: Ayarbo DRS cor QA/QC Package: D Level 4 (Full Validation)					's (8021)	(Gas only)	(Gas/Diesel)					,PO4,SO4,	2 PCB's				8				
Accredita	ation:			Sampler:	M. Warel		TMB	TPH	3B ((7	9	Î		ON.	808				103		Î
□ NELA		□ Other		On Ice:	Yes perature: 3	□ No	+	+	8015B	418.1)	504	PA	SIE	NOS	es/		VOA		1	2	7 0
□ EDD (Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1503A28	BTEX + MTBE	BTEX + MTBE	TPH Method	TPH (Method	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CIL	pll, Density,	Ne.+	Air Bubbles (Y or N)
3/29/15	1050	Ag	DBS-1R	500 ml Poly	None	-001												x			
34915	0740	1	DBS-2	1	1	-002												×			
	1010		DBS-3			-003	V ₁											X			
	0835		DBS-4			-004												x			
1	0980		DBS-5	Jt I		-005												X			
3/19/0			DBS-6			-00K												х			
1	1730		DBS-8			-007												Х		4	1
	1815		DBS-9			-008												X		1	
	1630		MW-3			-009					-							X		-	-
1	1405		MW-5	1	1	-010												Х		4	+
3/20/15			Injection Well	2×500 MG	HNOS	-011												Х	Х	-	+
L	1220	1	Brine Well	1	9 6	-012								1_				Х	Х	X	
Date:	Time: 1035 Time:	Relinquish	Ulah	Received by:	Sum 0:	Date Time 3/24/15 /035 Date Time		mark	s: le	PM	1-6	A2 (3)	120/	-0	140)) A	inal	sis	: Cl	1*	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

July 22, 2015

John Ayarbe

Daniel B. Stephens & Assoc. 6020 Academy NE Suite 100

Albuquerque, NM 87109 TEL: (505) 822-9400

FAX (505) 822-8877

RE: Salty Dog OrderNo.: 1507115

Dear John Ayarbe:

Hall Environmental Analysis Laboratory received 13 sample(s) on 7/2/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1507115**Date Reported: **7/22/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Brine

 Project:
 Salty Dog
 Collection Date: 6/30/2015 2:44:00 PM

 Lab ID:
 1507115-001
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Q	ual	Units	DF	Date Analyzed	Batch
SPECIFIC GRAVITY						Analyst	: JRR
Specific Gravity	1.196	0			1	7/6/2015 11:56:00 AM	R27292
EPA METHOD 300.0: ANIONS						Analyst	: LGT
Chloride	170000	10000	*	mg/L	2E	7/10/2015 1:52:10 AM	R27409
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS					Analyst	: KS
Total Dissolved Solids	315000	2000	*	mg/L	1	7/8/2015 5:09:00 PM	20129
SM4500-H+B: PH						Analyst	:: JRR
рН	7.40	1.68	Н	pH units	1	7/6/2015 6:53:19 PM	R27329
EPA METHOD 200.7: METALS						Analyst	: ELS
Sodium	110000	2000		mg/L	2E	7/16/2015 11:06:22 AM	20178

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Po
- P Sample pH Not In Range

Page 1 of 18

RL Reporting Detection Limit

Lab Order **1507115**

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-2

 Project:
 Salty Dog
 Collection Date: 6/30/2015 3:26:00 PM

 Lab ID:
 1507115-002
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: LGT
Chloride	28	5.0	mg/L	10 7/2/2015 9:49:50 PM	R27301

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1507115**

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-4

 Project:
 Salty Dog
 Collection Date: 6/30/2015 4:09:00 PM

 Lab ID:
 1507115-003
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: LGT
Chloride	31	5.0	mg/L	10 7/2/2015 10:14:39 PM	1 R27301

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1507115**

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-3

 Project:
 Salty Dog
 Collection Date: 6/30/2015 4:44:00 PM

 Lab ID:
 1507115-004
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: LGT
Chloride	35	5.0	mg/L	10 7/2/2015 10:39:28 PM	/I R27301

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 4 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1507115**

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-8

 Project:
 Salty Dog
 Collection Date: 7/1/2015 8:03:00 AM

 Lab ID:
 1507115-005
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	:: LGT
Chloride	34	5.0	mg/L	10 7/2/2015 11:04:18 PM	R27301

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 5 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1507115

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Injection

 Project:
 Salty Dog
 Collection Date: 7/1/2015 8:25:00 AM

 Lab ID:
 1507115-006
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Q	ual Units	DF Date Analyzed	Batch
SPECIFIC GRAVITY				Analys	t: JRR
Specific Gravity	0.9971	0		1 7/6/2015 11:56:00 AM	R27292
EPA METHOD 300.0: ANIONS				Analys	t: LGT
Chloride	180	50	mg/L	100 7/3/2015 12:06:19 AM	R27301
SM2540C MOD: TOTAL DISSOLVI	ED SOLIDS			Analys	t: KS
Total Dissolved Solids	602	20.0	* mg/L	1 7/8/2015 5:09:00 PM	20129
SM4500-H+B: PH				Analys	t: JRR
рН	8.15	1.68	H pH units	1 7/6/2015 6:57:23 PM	R27329

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 6 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1507115**

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-5

 Project:
 Salty Dog
 Collection Date: 7/1/2015 9:00:00 AM

 Lab ID:
 1507115-007
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: LGT
Chloride	140	5.0	mg/L	10 7/3/2015 12:18:44 AM	/ R27301

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 7 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1507115**

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-9

 Project:
 Salty Dog
 Collection Date: 7/1/2015 9:41:00 AM

 Lab ID:
 1507115-008
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: LGT
Chloride	210	50	mg/L	100 7/3/2015 12:55:58 AM	M R27301

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1507115**

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-6

 Project:
 Salty Dog
 Collection Date: 7/1/2015 10:40:00 AM

 Lab ID:
 1507115-009
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	360	50 * mg/L	100 7/3/2015 1:20:48 AM	R27301

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1507115**

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-5

 Project:
 Salty Dog
 Collection Date: 7/1/2015 11:53:00 AM

 Lab ID:
 1507115-010
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	/st: LGT
Chloride	1200	50 * mg/L	100 7/3/2015 3:49:45 AM	R27301

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Page 10 of 18
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1507115**

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-3

Project: Salty Dog **Collection Date:** 7/1/2015 12:50:00 PM 1507115-011 Matrix: AQUEOUS Received Date: 7/2/2015 9:06:00 AM Lab ID:

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	10000	500 * mg/L	1E 7/11/2015 8:42:32 AM	/I R27445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range

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- RL Reporting Detection Limit

Lab Order **1507115**

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-1R

 Project:
 Salty Dog
 Collection Date: 7/1/2015 1:37:00 PM

 Lab ID:
 1507115-012
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	860	50 * mg/L	100 7/3/2015 3:00:06 AM	R27301

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1507115**

Date Reported: 7/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: PMW-1

 Project:
 Salty Dog
 Collection Date: 7/1/2015 2:12:00 PM

 Lab ID:
 1507115-013
 Matrix: AQUEOUS
 Received Date: 7/2/2015 9:06:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	8600	500 * mg/L	1E 7/11/2015 8:54:57 AN	/ R27445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 13 of 18
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1507115**

22-Jul-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID LCS-20178 SampType: LCS TestCode: EPA Method 200.7: Metals

Client ID: LCSW Batch ID: 20178 RunNo: 27464

Prep Date: **7/9/2015** Analysis Date: **7/13/2015** SeqNo: **823871** Units: **mg/L**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium 49 1.0 50.00 0 98.3 85 115

Sample ID LLLCS-20178 SampType: LCSLL TestCode: EPA Method 200.7: Metals

Client ID: BatchQC Batch ID: 20178 RunNo: 27464

Prep Date: 7/9/2015 Analysis Date: 7/13/2015 SeqNo: 823872 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium ND 1.0 0.5000 0 106 50 150

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

4.9

ND

WO#: **1507115**

22-Jul-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Chloride

Chloride

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R27301 RunNo: 27301

0.50

0.50

Prep Date: Analysis Date: 7/2/2015 SeqNo: 818078 Units: mg/L

5.000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R27301 RunNo: 27301 Prep Date: Analysis Date: 7/2/2015 SeqNo: 818079 Units: mg/L SPK value SPK Ref Val **RPDLimit** Analyte Result **PQL** %REC LowLimit HighLimit %RPD Qual

0

97.5

110

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: R27301 RunNo: 27301 Prep Date: Analysis Date: 7/3/2015 Units: mg/L SeqNo: 818155 SPK value SPK Ref Val %REC LowLimit %RPD Result **PQL RPDLimit** Qual Analyte HighLimit

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: Batch ID: R27301 RunNo: 27301 LCSW Prep Date: Analysis Date: 7/3/2015 SeqNo: 818156 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual 0.50 Chloride 4.7 5.000 94.5 90 110

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions PBW RunNo: 27409 Client ID: Batch ID: R27409 Prep Date: Analysis Date: 7/9/2015 SeqNo: 822360 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions

 Client ID:
 LCSW
 Batch ID:
 R27409
 RunNo:
 27409

 Prep Date:
 Analysis Date:
 7/9/2015
 SeqNo:
 822361
 Units:
 mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride 4.5 0.50 5.000 0 90.7 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

4.7

ND

WO#: **1507115**

22-Jul-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Chloride

Chloride

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R27445 RunNo: 27445

Prep Date: Analysis Date: 7/10/2015 SeqNo: 823303 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R27445 RunNo: 27445 Units: mg/L Prep Date: Analysis Date: 7/10/2015 SeqNo: 823304 SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual

0

94.8

110

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: R27445 RunNo: 27445 Prep Date: Analysis Date: 7/11/2015 SeqNo: 823382 Units: mg/L SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result **PQL** HighLimit %RPD Qual

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions

5.000

Client ID: LCSW Batch ID: R27445 RunNo: 27445

0.50

0.50

Prep Date: Analysis Date: 7/11/2015 SeqNo: 823383 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 4.6 0.50 5.000 0 91.0 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

1.194

WO#: **1507115**

0.226

20

22-Jul-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Specific Gravity

Sample ID 1507115-001ADUP SampType: DUP TestCode: Specific Gravity

Client ID: Brine Batch ID: R27292 RunNo: 27292

0

Prep Date: Analysis Date: 7/6/2015 SeqNo: 817802 Units:

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH Not In Range

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1507115**

22-Jul-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-20129 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 20129 RunNo: 27360

Prep Date: 7/7/2015 Analysis Date: 7/8/2015 SeqNo: 820297 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-20129 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 20129 RunNo: 27360

Prep Date: 7/7/2015 Analysis Date: 7/8/2015 SeqNo: 820298 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 18 of 18



4901 Hawkins NE Albuquerqiw, NM 87109 TEL, 505-345-3975 FAX: 505-345-4107 Website; www.hallenvironmental.com

Sample Log-In Check List

Client Name: DBS	Work Order Number	1507115		RoptNo	-1
Received by/date: CS	07/12/15				
Logged By Lindsay Mangin	7/2/2015 9:06:00 AM		of yelligo		
Completed By. Lindsay Mangin	7/2/2015 12:13:28 PM		July Hogo		
Reviewed By:	07/02/15		0 0		
Chain of Custody	0110-111				
1. Custody seals intact on sample bottles?		Yes	No 🗆	Not Present 🗸	
2. Is Chain of Custody complete?		Yes 🗸	No	Not Present	
3. How was the sample delivered?		Client			
Log In					
4. Was an attempt made to cool the sample	s?	Yes 🗸	No 🗆	NA 🗆	
5. Were all samples received at a temperature	ne of >0° C to 6.0°C	Yes 🗸	No 🗆	na 🗆	
6. Sample(s) in proper container(s)?		Yes 🗸	No L		
7 Sufficient sample volume for indicated tes	t(s)?	Yes 🗸	No 🗆		
B. Are samples (except VOA and ONG) prop	erly preserved?	Yes V	No		
B. Was preservative added to bottles?		Yes 🗌	No V	NA =	
10 VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials ✓	
11. Were any sample containers received bro	oken7	Yes	No V	# of preserved	
				bottles checked	1
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗀	for pH:	or >12 unless note
13. Are matrices correctly identified on Chain	of Custody?	Yes V	No 🗆	Adjusted?	110
14. Is it clear what analyses were requested?		Yes V	No 🗆		20
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗆	Checked by:	GZ
Special Handling (if applicable)					
16. Was client notified of all discrepancies wi	th this order?	Yes	No L	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail	Phone Fax	In Person	
Regarding.					
Client Instructions:					
17. Additional remarks:					
18 Cooler Information					
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		

			istody Record	Turn-Around	Time;		-		1	HA	11	F	NV	TE	20	NN	IEN	TAL	
Client	DRSA	1		✓ Standard Project Name			ANALYSIS LABORAT												
8 St. 761-0-1	*****		01.15 -1.15				1		9	WW	w.ha	llenv	iron	ment	al.co	m			
	PPC	wen	ry Rd NE Steloo	Project #:	1 was		-	- "	Hawk										
Albu	equee	que	JUM 87109		D118 05		_	Tel.	505-3	45-3	_		_		_	4107			
			2-9400			,	-				,	inaly		Req	ues		252		F
Service Co.		jaya	rbe Odbstephens			12	(8021)	only	2		_		SO	3,2		200	Spinst	1 1	
₩ Stan	Package: dard		☐ Level 4 (Full Validation)	John	Ayart	22	s (80	TPH (Gas only)	3		SIMS		PO4,	PCB's		1	X		
Accred	itation			Sampler PNB, MZ		3	TMB	H 4	=	9			NO2,	8082		1	F		2
□ NEL		□ Othe	er	On Ice:	Yes 1	□ No	+	# 6	418	504	N 82	00	Q,	~		V OV			
□ EDD	(Type)_			Sample Tem	perature: 4	6	MTBE		poq	hod	100	Aeta	٨	ticid	OA)	V.A.	美士	3	N Se
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1507-115	BTEX + N	BTEX + MT	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (FC)NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Sem	を一方	A L	Air Riibhte
130/15	1444	6W	Brine	320145	NOTE HAVE	-001							×	0,0	-		××	7	Ť
	1526		DBS-2	100/4	une	-002							X						
	1609		DR5-4		1	-03						7	X						
V	1644		DBS-3			-1021	-	7 110					Y						T
11/15			DBS-P			-005					11	H)	X	1 1	41			Tin c	
1	0825		Injection	2 polys	6	-000	1						X				X		T
	0900		DBS-5	1 Dolar		-107							X		TT)				T
	0941	7 7 15	DBS-9	177	100	-018					13		X	110					
	1040		DBS-6			-cra							X						
	1153		mw-5			-010							X						
	1250	1	mw-3	V	K	-011							×						I
V	1337		JOBS-IR	V	V	-CR							M						
Date:	Time.	Relinquish	ned by:	Received by	X 83	Date Time 1021/5 0906	Ren	narks											
Date:	Time:	Relinquish	ed by:	Received by:		Date Time													

Chain-of-Custody Record	Turn-Around Time:	M MALL ENVIRONMENTAL
DBSA	Standard □ Rush	HALL ENVIRONMENTAL ANALYSIS LABORATORY
(Mailing Addiss: Jenu Pd. NE Stell	o Salty Dua	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109
Phone #: 505-822-9400	Project #: J . U S	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request
email or Fax#:	Project Manager:	21) only) MRO) SO ₄)
QA/QC Package: Standard Level 4 (Full Validation		TMB's (8021) TPH (Gas only) O / DRO / MRO) 3.1) 1.1) 270 SIMS) 8082 PCB's 8082 PCB's
Accreditation □ NELAP □ Other	Sampler: DR MC On Ice: Yes DNo	BE + TMB's (6 GRO / DRO (GRO / DRO d 418.1) d 418.1) d 504.1) J or 8270 SIM tals tals (A) (A) (A) (A) (A) (A) (A) (A
□ EDD (Type)	Sample Temperature: 4.6	MTBE 15B (GF 1
Date Time Matrix Sample Request ID	Container Type and # Preservative HEAL No.	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only TPH 8015B (GRO / DRO / MRO TPH (Method 418.1) EDB (Method 504.1) PAH's (8310 or 8270 SIMS) RCRA 8 Metals Anions (FCI)NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA)
7/11K 1412 GN PMW-1	Ipoly None -OB	
	100	
Date: Time: Refinquished by: Date: Time: Refinquished by:	Received by: Date Time PROS Received by: Date Time	Remarks:
	V	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 19, 2015

John Ayarbe

Daniel B. Stephens & Assoc. 6020 Academy NE Suite 100

Albuquerque, NM 87109 TEL: (505) 822-9400

FAX (505) 822-8877

RE: Salty Dog OrderNo.: 1510061

Dear John Ayarbe:

Hall Environmental Analysis Laboratory received 13 sample(s) on 10/1/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1510061

Date Reported: 10/19/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: PMW-1

 Project:
 Salty Dog
 Collection Date: 9/30/2015 8:41:00 AM

 Lab ID:
 1510061-001
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	9700	500 * mg/L	1E 10/8/2015 9:04:06 PM	/ R29425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1510061**Date Reported: **10/19/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-8

 Project:
 Salty Dog
 Collection Date: 9/30/2015 9:33:00 AM

 Lab ID:
 1510061-002
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: LGT
Chloride	35	5.0	mg/L	10	10/8/2015 9:16:30 PM	M R29425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1510061**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/19/2015

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-5

 Project:
 Salty Dog
 Collection Date: 9/30/2015 10:28:00 AM

 Lab ID:
 1510061-003
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	1000	50 * mg/L	100 10/8/2015 9:53:44 PN	Л R29425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1510061

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/19/2015

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-3

 Project:
 Salty Dog
 Collection Date: 9/30/2015 11:28:00 AM

 Lab ID:
 1510061-004
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	/st: LGT
Chloride	9600	500 * mg/L	1E 10/8/2015 10:18:32 F	PM R29425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1510061

Date Reported: 10/19/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-6

 Project:
 Salty Dog
 Collection Date: 9/30/2015 12:07:00 PM

 Lab ID:
 1510061-005
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: LGT
Chloride	370	50 * mg/L	100 10/8/2015 10:43:21 I	PM R29425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1510061

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/19/2015

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-9

 Project:
 Salty Dog
 Collection Date: 9/30/2015 12:49:00 PM

 Lab ID:
 1510061-006
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	/st: LGT
Chloride	260	50 * mg/L	100 10/8/2015 11:33:00 F	PM R29425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report Lab Order 1510061

Date Reported: 10/19/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Brine

 Project:
 Salty Dog
 Collection Date: 9/30/2015 1:07:00 PM

 Lab ID:
 1510061-007
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qua	al Units	DF Date Analyzed	Batch
SPECIFIC GRAVITY				Analyst	:: JRR
Specific Gravity	1.198	0		1 10/7/2015 2:57:00 PM	R29369
EPA METHOD 300.0: ANIONS				Analyst	:: LGT
Chloride	190000	10000 *	mg/L	2E 10/8/2015 11:57:49 PM	R29425
SM2540C MOD: TOTAL DISSOLVE	SOLIDS			Analyst	:: KS
Total Dissolved Solids	294000	2000 *1	O mg/L	1 10/8/2015 4:14:00 PM	21710
SM4500-H+B: PH				Analyst	: MRA
рН	7.39	1.68 H	H pH units	1 10/7/2015 4:29:57 PM	R29389
EPA METHOD 200.7: METALS				Analyst	:: ELS
Sodium	75000	1000	mg/L	1E 10/14/2015 2:38:21 PM	21822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1510061

Date Reported: 10/19/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-4

 Project:
 Salty Dog
 Collection Date: 9/30/2015 1:33:00 PM

 Lab ID:
 1510061-008
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	33	5.0	mg/L	10 10/9/2015 12:10:13 /	AM R29425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1510061**

Date Reported: 10/19/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-2

 Project:
 Salty Dog
 Collection Date: 9/30/2015 2:13:00 PM

 Lab ID:
 1510061-009
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	40	5.0	mg/L	10 10/9/2015 12:35:02 A	AM R29425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1510061**

Date Reported: 10/19/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-5

 Project:
 Salty Dog
 Collection Date: 9/30/2015 3:19:00 PM

 Lab ID:
 1510061-010
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qua	Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: LGT
Chloride	150	5.0	mg/L	10 10/9/2015 12:59:52 A	M R29425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1510061

Date Reported: 10/19/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-3

 Project:
 Salty Dog
 Collection Date: 9/30/2015 3:54:00 PM

 Lab ID:
 1510061-011
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: LGT
Chloride	34	5.0	mg/L	10 10/9/2015 1:49:29 A	M R29425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical ReportLab Order **1510061**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/19/2015

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Injection

 Project:
 Salty Dog
 Collection Date: 9/30/2015 3:15:00 PM

 Lab ID:
 1510061-012
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL (Qual (J nits	DF	Date Analyzed	Batch
SPECIFIC GRAVITY						Analys	t: JRR
Specific Gravity	0.9978	0			1	10/7/2015 2:57:00 PM	R29369
EPA METHOD 300.0: ANIONS						Analys	t: LGT
Chloride	240	50		mg/L	100	10/9/2015 2:26:43 AM	R29425
SM2540C MOD: TOTAL DISSOLVE					Analys	t: KS	
Total Dissolved Solids	702	40.0	*D	mg/L	1	10/8/2015 4:14:00 PM	21710
SM4500-H+B: PH						Analys	t: MRA
рН	7.87	1.68	Н	pH units	1	10/7/2015 4:34:28 PM	R29389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1510061**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/19/2015

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-1R

 Project:
 Salty Dog
 Collection Date: 9/30/2015 4:33:00 PM

 Lab ID:
 1510061-013
 Matrix: AQUEOUS
 Received Date: 10/1/2015 5:02:00 PM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	st: LGT
Chloride	670	50 * mg/L	100 10/9/2015 2:51:32 AM	M R29425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 13 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1510061**

19-Oct-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-21822 SampType: MBLK TestCode: EPA Method 200.7: Metals

Client ID: PBW Batch ID: 21822 RunNo: 29542

Prep Date: 10/13/2015 Analysis Date: 10/14/2015 SeqNo: 898954 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium ND 1.0

 Sample ID
 LCS-21822
 SampType:
 LCS
 TestCode:
 EPA Method 200.7:
 Metals

 Client ID:
 LCSW
 Batch ID:
 21822
 RunNo:
 29542

 Prep Date:
 10/13/2015
 Analysis Date:
 10/14/2015
 SeqNo:
 898955
 Units:
 mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLir

SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Sodium 50 1.0 50.00 0 99.8 115

Sample ID LCSLL-21822 SampType: LCSLL TestCode: EPA Method 200.7: Metals

Client ID: BatchQC Batch ID: 21822 RunNo: 29542

Prep Date: 10/13/2015 Analysis Date: 10/14/2015 SeqNo: 898956 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium ND 1.0 0.5000 0 98.8 50 150

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 14 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **1510061**

19-Oct-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R29425 RunNo: 29425

Prep Date: Analysis Date: 10/8/2015 SeqNo: 894992 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R29425 RunNo: 29425

Prep Date: Analysis Date: 10/8/2015 SeqNo: 894993 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 4.7 0.50 5.000 0 94.1 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 15 of 17

Hall Environmental Analysis Laboratory, Inc.

1.191

WO#: **1510061**

0.536

20

19-Oct-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Specific Gravity

Sample ID 1510061-007ADUP SampType: DUP TestCode: Specific Gravity

Client ID: Brine Batch ID: R29369 RunNo: 29369

Prep Date: Analysis Date: 10/7/2015 SeqNo: 893052 Units:

0

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Page 16 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **1510061**

19-Oct-15

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-21710 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 21710 RunNo: 29402

Prep Date: 10/7/2015 Analysis Date: 10/8/2015 SeqNo: 894282 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-21710 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 21710 RunNo: 29402

Prep Date: 10/7/2015 Analysis Date: 10/8/2015 SeqNo: 894283 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1000 20.0 1000 0 101 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 17 of 17



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Tkl. S05-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Work Order Number: 1510061 RoptNo: 1 Client Name DBS CX Received by/date: 10/1/2015 5:02:00 PM Logged By Lindsay Mangin Completed By Lindsay Mangin 10/2/2015 9:04:38 AM Reviewed By: Chain of Custody Not Present V 1. Custody see's intact on sample bottles? Yes Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Client Log In NA No 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 5.0°C No Yes Yes V No. Sample(s) in proper container(s)? No. 7. Sufficient sample volume for indicated test(s)? No 8: Are samples (except VOA and ONG) properly preserved? No V 9. Was preservative added to bottles? Yes ~ No. No VOA Vials 10. VOA vials have zero headspace? Yes No Y 11 Were any sample containers received broken? # of preserved bottles checked No . for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes V No . 13. Are matrices correctly identified on Chain of Custody? No. V 14 Is it clear what analyses were requested? No . Checked by Yes V 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes NA V 16. Was client notified of all discrepancies with this order? No Date Person Notified: Via: eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 17. Additional remarks 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No. Seal Date Signed By 3.6 Not Present Good

C	hain-	of-Cu	stody Record	Turn-Around	Time:					-	10	i i	E	NV	TE	0	PAR	ME	NTA	NI.
Client:	DBS	SA					1 6		=										TO	
				Project Name);		www.hallenvironmental.com													
Mailing	Address	602	O Acodemy Rd NE stell	SALT	Y DOG		4901 Hawkins NE - Albuquerque, NM 87109													
100			M 87109	Project #:			1	Tel 505-345-3975 Fax 505-345-4107												
Phone	#: 50:	5-822	2-9400	E508.	0118.							А	naly	/sis	Req	uesi				
			be 60 DBStephens.co	Project Mana	iger:		_	nty)	30)					(*)			Ti	14	-	11
QA/QC	Package:			John Ayarbe		's (8021)	98.0	Ξ			(3)		S,4,S	PCB's			geauth			
Stan			☐ Level 4 (Full Validation)	CONT AJA. CC		3's	TPH (Gas only)	SS			SIMS)		2,PC				0	,		
Accred NEL		□ Othe	ar.	Sampler: M. Zbrozek		TMB	4	3/0	8.1)	4.1)	8270		No.	8082		~	96		2	
□ EDD (Type)		On Ice: Sample Tem	X Yes	□ No 3.6°C	+	* H	GR	441	9 20	5	als	Se l	des/	_	VOA	Spec		Y or		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1510061	BTEX * MTBE	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310	RCRA 8 Metals	Anions (FCLAO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	OH TDS SPECIFIC	Mat	Air Bubbles (Y
12-1-	0841	ELL	PMW-1	1 poly	none	-001	_ m	ш	-	-	ш	1	ı	X	00	00	80	-		1
130/15		- 1		Poly	none				-					7					+	++
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+	1028		MW-S		1	-003	+		-			-	-	X.			-	-	+	++-
+	1128		MW-3			-204	+		-	-	\dashv			d.					-	++
-	1207		DB5-6			-005	+	-	-		-		-	1		-				-
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	1519		DB3-5			-010								a						
	1554		DB5-3	V		-011								d						11
V	1615	V	Injection/	2 Poly	V	-01Z								or.				a		
Date: ///15 Date:	Time: /=/	Relinquish	The state of	Received by: Celus Size 10/01/15 1702 Received by: Date Time			11000	narks	s:											

	Chain-of-Custody Record			Turn-Around Time: Standard □ Rush Project Name:					A		LY	SIS	S L	AE	30	RAT		
			RD NE ste 100 VM 87109 9400	Salty Dog Project #: ES08.01/8			4901 Hawkins NE - Albuquerque: NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request											
email o	r Fax#: Package:	JAyaro	□ Level 4 (Full Validation)	Project Manager: John Ayarbe		TMB's (8021)	+ TPH (Gas only)	DRO / MRO)		SIMS)		,PO4,SO4,	2 PCB's					
□ NEL	ccreditation I NELAP Other I EDD (Type)			Sampler: M. Zbrozek On Ice: XYes □ No		+		-	418.1)			ON'EO	808/8		(AC		or N	
Date Time Matrix Sample Request ID			Container Type and # Preservative Type HEAL No.		BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418,1)	PAH's (8310 or 8270		Anions (F.Q)NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)		Air Bubbles (Y or N)		
30/15	/633	6W	DBS-IR	1 Poly	none	-013							Ø					+
			A	9/3	0/15													
Date:	Time:	Relinquishe	ed by:	Received by:		Date Time	Ren	narks	5									
1/1/5 1709 Date: Time: Reinquished by:			Cllin Received by:	Suc	Date Time	2												



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 07, 2016

John Ayarbe

Daniel B. Stephens & Assoc. 6020 Academy NE Suite 100 Albuquerque, NM 87109

TEL: (505) 822-9400 FAX (505) 822-8877

RE: Salty Dog OrderNo.: 1512889

Dear John Ayarbe:

Hall Environmental Analysis Laboratory received 13 sample(s) on 12/18/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1512889

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-8

 Project:
 Salty Dog
 Collection Date: 12/17/2015 9:44:00 AM

 Lab ID:
 1512889-001
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qua	l Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	33	5.0	mg/L	10 12/23/2015 7:57:44 A	AM A31054

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512889**

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-5

 Project:
 Salty Dog
 Collection Date: 12/17/2015 10:23:00 AM

 Lab ID:
 1512889-002
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: LGT
Chloride	1000	50 * mg/L	100 12/23/2015 8:59:47	AM A31054

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512889**

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-6

 Project:
 Salty Dog
 Collection Date: 12/17/2015 10:52:00 AM

 Lab ID:
 1512889-003
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: LGT
Chloride	380	50 * mg/L	100 12/23/2015 9:24:37	AM A31054

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512889**

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: MW-3

 Project:
 Salty Dog
 Collection Date: 12/17/2015 11:24:00 AM

 Lab ID:
 1512889-004
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: LGT
Chloride	5100	500 * mg/L	1E 12/23/2015 9:49:26	AM A31054

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512889**

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-9

 Project:
 Salty Dog
 Collection Date: 12/17/2015 11:51:00 AM

 Lab ID:
 1512889-005
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: LGT
Chloride	230	50	mg/L	100 12/23/2015 12:15:29	PM R31078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512889**

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-4

 Project:
 Salty Dog
 Collection Date: 12/17/2015 12:20:00 PM

 Lab ID:
 1512889-006
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	35	5.0	mg/L	10 12/23/2015 12:27:54	PM R31078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512889**

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-2

 Project:
 Salty Dog
 Collection Date: 12/17/2015 12:47:00 PM

 Lab ID:
 1512889-007
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: LGT
Chloride	35	5.0	mg/L	10 12/23/2015 12:52:43	PM R31078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512889**

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-5

 Project:
 Salty Dog
 Collection Date: 12/17/2015 1:11:00 PM

 Lab ID:
 1512889-008
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	160	5.0	mg/L	10 12/23/2015 1:17:31 F	PM R31078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512889**

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-3

 Project:
 Salty Dog
 Collection Date: 12/17/2015 1:33:00 PM

 Lab ID:
 1512889-009
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	34	5.0	mg/L	10 12/23/2015 1:42:20 F	PM R31078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1512889

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: DBS-1R

 Project:
 Salty Dog
 Collection Date: 12/17/2015 1:54:00 PM

 Lab ID:
 1512889-010
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Anal	yst: LGT
Chloride	760	50 * mg/L	100 12/23/2015 2:44:23	PM R31078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512889**Date Reported: **1/7/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Brine

 Project:
 Salty Dog
 Collection Date: 12/17/2015 2:01:00 PM

 Lab ID:
 1512889-011
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qua	l Units	DF Date Analyzed Batch
SPECIFIC GRAVITY				Analyst: JRR
Specific Gravity	1.201	0		1 12/28/2015 12:28:00 PM R31082
EPA METHOD 300.0: ANIONS				Analyst: LGT
Chloride	210000	10000 *	mg/L	2E 12/23/2015 3:09:13 PM R31078
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS			Analyst: KS
Total Dissolved Solids	303000	2000 *D	mg/L	1 12/28/2015 2:11:00 PM 22915
SM4500-H+B: PH				Analyst: MRA
рН	7.46	1.68 H	pH units	1 12/21/2015 2:48:56 PM R31018
EPA METHOD 200.7: METALS				Analyst: ELS
Sodium	100000	2000	mg/L	2E 12/22/2015 5:11:37 PM A31036

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512889**Date Reported: **1/7/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: Injection

 Project:
 Salty Dog
 Collection Date: 12/17/2015 2:15:00 PM

 Lab ID:
 1512889-012
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Q	Qual Units	DF Date Analyzed	Batch
SPECIFIC GRAVITY				Analy	st: JRR
Specific Gravity	0.9991	0		1 12/28/2015 12:28:00	PM R31082
EPA METHOD 300.0: ANIONS				Analy	st: LGT
Chloride	210	50	mg/L	100 12/23/2015 3:34:03 P	M R31078
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS			Analy	st: KS
Total Dissolved Solids	647	20.0	* mg/L	1 12/28/2015 2:11:00 P	M 22915
SM4500-H+B: PH				Analy	st: MRA
рН	7.89	1.68	H pH units	1 12/21/2015 2:53:27 P	M R31018

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512889**

Date Reported: 1/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. Client Sample ID: PMW-1

 Project:
 Salty Dog
 Collection Date: 12/17/2015 2:29:00 PM

 Lab ID:
 1512889-013
 Matrix: AQUEOUS
 Received Date: 12/18/2015 9:07:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS			Analy	yst: LGT
Chloride	9800	500 * mg/L	1E 12/23/2015 3:58:51 F	PM R31078

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 13 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512889**

07-Jan-16

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sodium

Sample ID MB-A SampType: MBLK TestCode: EPA Method 200.7: Metals

Client ID: PBW Batch ID: A31036 RunNo: 31036

Prep Date: Analysis Date: 12/22/2015 SeqNo: 949133 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium ND 1.0

Sample ID LCS-A SampType: LCS TestCode: EPA Method 200.7: Metals Client ID: LCSW Batch ID: A31036 RunNo: 31036 Prep Date: Analysis Date: 12/22/2015 SeqNo: 949134 Units: mg/L Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual

0

96.6

115

Sample ID LLLCS-A SampType: LCSLL TestCode: EPA Method 200.7: Metals

50.00

Client ID: BatchQC Batch ID: A31036 RunNo: 31036

1.0

Prep Date: Analysis Date: 12/22/2015 SeqNo: 949135 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sodium ND 1.0 0.5000 0 99.0 50 150

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

5.0

ND

WO#: **1512889**

07-Jan-16

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Chloride

Chloride

Sample ID LCS

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: A31054 RunNo: 31054

Prep Date: Analysis Date: 12/22/2015 SeqNo: 949931 Units: mg/L

5.000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: A31054 RunNo: 31054 Units: mg/L Prep Date: Analysis Date: 12/22/2015 SeqNo: 949932 %REC SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual

0

99.5

TestCode: EPA Method 300.0: Anions

110

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: R31078 RunNo: 31078 Prep Date: Analysis Date: 12/23/2015 SeqNo: 950868 Units: mg/L SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result **PQL** HighLimit %RPD Qual

Client ID: LCSW Batch ID: R31078 RunNo: 31078

SampType: LCS

0.50

0.50

Prep Date: Analysis Date: 12/23/2015 SeqNo: 950869 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 4.8 0.50 5.000 0 95.0 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1512889**

07-Jan-16

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID 1512889-011ADUP SampType: DUP TestCode: Specific Gravity

Client ID: Brine Batch ID: R31082 RunNo: 31082

Prep Date: Analysis Date: 12/28/2015 SeqNo: 951037 Units:

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Specific Gravity 1.197 0 0.342 20

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 16 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512889**

07-Jan-16

Client: Daniel B. Stephens & Assoc.

Project: Salty Dog

Sample ID MB-22915 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 22915 RunNo: 31081

Prep Date: 12/22/2015 Analysis Date: 12/28/2015 SeqNo: 951012 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-22915 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 22915 RunNo: 31081

Prep Date: 12/22/2015 Analysis Date: 12/28/2015 SeqNo: 951013 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1020 20.0 1000 0 102 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 17 of 17



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client	Name:	DBS		Work Order Numl	ber: 1512889		RcptNo:	
Receiv	/ed by/date	e: 1 A)	12/18/15				
Logge		Ashley Gal	lanos	12/18/2015 9:07:00	AM	A		
				12/18/2015 /9:16:19				
•	leted By:	Ashley Gal	eges .	, ,	, Wiki	Jay		
	wed By:	4-4-		12/18/15	 .		· .	
	of Cus		/		v 🗆	No 🗌	Not Present	
		ils intact on sa			Yes ∐ Yes ⊻	No 🗆	Not Present	
		Custody comp				140	·	
3. Ho	ow was the	e sample deliv	ered?		<u>Client</u>			
<u>Log I</u>	<u>In</u>							
4. w	as an atte	empt made to	cool the samples?	•	Yes 🗸	No 🗆	NA \square	
5. W	ere all san	mples received	d at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
						🗆		
6. Sa	ample(s) ir	n proper conta	ainer(s)?		Yes 🗹	No 📙		
7. Su	ufficient sa	mple volume	for indicated test(s	s)?	Yes 🗸	No 🗌		
8. Ar	e samples	s (except VOA	and ONG) proper	ly preserved?	Yes 🗸	No 🗆		
9. W	as preserv	vative added to	o bottles?		Yes	No 🗹	NA 🗆	
10 vc	N viale h:	ave zero head	snare?		Yes 🗌	No 🗆	No VOA Vials ⊻	
			ers received broke	en?	Yes	No 🗹		
11. **	icic ally si	ampie contain	Olo logoliog blok	- 111.			# of preserved / bottles checked /	
12.Do	oes paper	work match bo	ottle labels?		Yes 🔽	No 🗆	for pH:	
•			ain of custody)		🗖	No. 🗆	(<2/oi Adjusted?	>12 unless noted)
			ntified on Chain of	Custody?	Yes ✔ Yes ✔	No □ No □		
		nat analyses w ding times abl	vere requested?		res ⊻ Yes ⊻	No 🗆	Checked by:	Qa.
			authorization.)		163 🖭		7	/ 4
<u>Speci</u>	ial Hand	lling (if app	olicable)					
16. W	as client r	notified of all d	iscrepancies with	this order?	Yes 🗌	No 🗆	NA 🗹	٦
	Perso	n Notified:		Dat	е			
	By Wh	hom:		Via	: eMail	Phone Fax	☐ In Person	
	Regar	rding:			7.77.0			
	Client	Instructions:						
17. A	dditional r	remarks:						
18. <u>c</u>	ooler Info	ormation						
Ī	Cooler N	lo Temp ºC		eal Intact Seal No	Seal Date	Signed By		
	1	2.0	Good No	t Present	.			

C	:hain	-ot-Cu	istody Record	I urn-Arouna	ı ime:			,				_	B. E. S. A	, T				BIT		
Client:	DB5	, / 4		∑ Standard	□ Rush	1													AL ORY	
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Project Name							vw.ha								/K I	
Mailing	Address	cade	MY RD NE STE DO	SALT	Y DOG			490)1 Ha	wkins							7109			
fibuo	herou	se.NI	u 87109	Project #:						5-345-										
Albuquerque, NM 87109 Phone #: 505-822-9400			ES08.0118.05			Tel. 505-345-3975 Fax 505-345-4107 Analysis Request														
email or Fax#: JAYARBE ODBStephens co							<u>Ş</u>	<u> </u>				(4)							_	
QA/QC Package: Level 4 (Full Validation)				Ararbe	ಲ	\$ (8021	Gas on	/ DRO / MRO)		SIMS)		PO₄,SC	PCB's			Growty	`			
Accreditation			Sampler:	72		MB's	핅	띰				0,2	8082			Ů			_	
□ NELAP □ Other			On Ice:	Yes	■ No	<u> </u>	 	8	418.1)	8270	l	7,E	8/8		8	Sec			Z	
□ EDD	(Type)_			Sample Tem	perature:	5.0	BE	BE	<u>6</u>	호 호	jo	tals	ž	ides	٦)	9				ک
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1512889	BTEX + MT	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	PAH's (8310 or 8	RCRA 8 Me	Anions (FChNO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	PH TES,	Nat		Air Bubbles (Y or N)
117/15	0944	GW	DB5-8	1 Poly	none	-001							×							
	1023		MW-S		1	-002							\checkmark							
	1052		DBS-6			-003							×							
	1124		MW-3			-004							/							
	1151		DBS-9			-005							\propto							
	1220		DB5-4			-000							/							
	1247		DBS-2			-007							×							
-	1311		DBS-5			-008							X							
_	/333		DBS-3			-009					<u> </u>		\angle					\perp	\bot	
	1354		DBS-1R	\ <u>\</u>	V	-00					<u> </u>		\times	ļ				\perp	$\bot\!\!\!\bot$	
2/	K101 1415	,	Brine	3 Polys	none HNO3	- O[]							\leq				α	<u> </u>		
\	1429	√	INDECTION PMW-1	2 Polys IPOIY	none,	-031					+-	 	XX							
	Time: 0907 Time:	Relinquish Relinquish	4/6	Received by:	allez	Date Time Date Time	Rem	arks:												
Jaio.	Timo.	Tomquiati		Jacob Vol. Dy.		Date Hille														

SALTY DOG ANNUAL REPORT 2010

- 1) SPILLS: One spill occurred on Sep. 8th. 2010 @2000 pm. Form C-141 attached.
- 2) BRINE PRODUCTION METHOD: Inject f/w down casing @ an average of 150 lbs.
- 3) MIT'S PERFORMED: One MIT test on Nov. 16th. 2010. OCD's Hobbs office witnessed test, setting the packer within 10 feet of the casing shoe and pressure up the casing to 300 psi. Held at no more than a 10% loss for 30 minutes. Chart attached.
- 4) WORKOVERS: One workover performed, started on Dec.27th. 2010. Form C-103 attached.
- 5) SURFACE SUBSIDENCE MONITORING: No actions taken.

- 6) CAVERN SIZE & CONFIGURATION: See Attached
- 7) MONTHLY INJECTION / PRODUCTION VOLUMES: See attached
- 8) ANALYSES OF F/W & B/W: No actions taken
- 9) WASTE DISPOSAL: Spill water taken to Buckeye Disposal, LLC. CBM lease.
- 10) MONITORING & REMEDIATION ACTIVITIES: Currently in talks with Daniel B. Stephens & Associates, for groundwater cleanup.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Frencis Dr., Santa Fe, NM 87505

Date: 9-10-10

* Attach Additional Sheets If Necessary

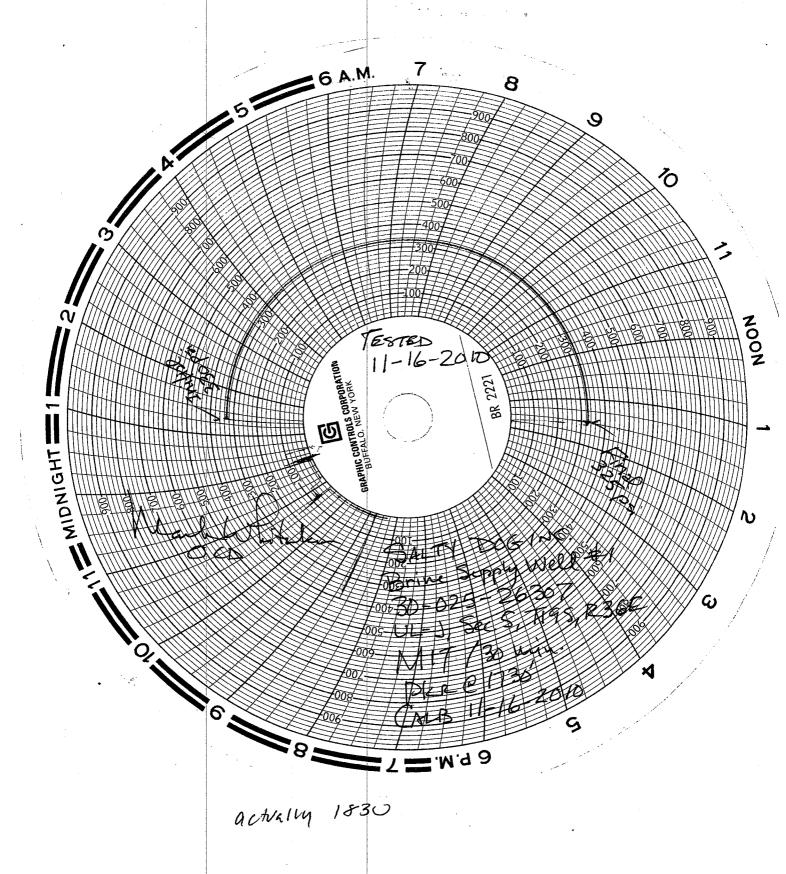
State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

1220 S. St. Fran	cis Dr., Santa	Fe, NM 87505		Sa	anta F	e, NM 875	05				side of form	
			Rel	ease Notific	catio	n and Co	rrective A	ction	ł			
					C	PERATO	R] X Initia	al Report	Final Repor	
Name of Co	ompany A	queous				Contact Jon Ammons						
Address Po						Telephone No. 575-393-8352						
Facility Na	me Salty I)og				Facility Typ	e B/W & F/W	facility	y	P		
Surface Ow	mor			Mineral C	Numer				Lease N	Jo		
Surface Ow	1101					N OF DE	T A CE		1 Dealer			
Unit Letter	Section	Township	Range	Feet from the		N OF REI	Feet from the	Fast/\	West Line	County		
Omi Letter	Bection	Township	range	r cot nom the	11014	South Ente	1 cot nom mo	2450	N OSC EMIC	Lea		
	1	L	La	titude		Longitud	le	<u> </u>				
				NAT	TIRE	OF REL	EASE					
Type of Rele	ase B/w &	F/w	1	1428.	Old		Release 300 BBIs	 S.	Volume F	Recovered 3	00 BBIs.	
Source of Re							lour of Occurrenc				scovery 9-8-10@	
·			1			10@1930			2000			
Was Immedi	ate Notice (V Vec	□ No □ Not		If YES, To	Whom? Jeff Luc	king				
Required			1103	[] 140 [] 140t								
By Whom?	Jon Ammon	s	 			Date and H	four 9-9-10 @ 080	00				
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.												
			Yes [] x No								
If a Watercou	urse was Im	pacted, Descril	e Fully.	*								
		, 										
		em and Remed										
Tubing parte	ed causing w	ell to leak wat	er, 3 vac	uum trucks dispat	ched to	location asap	cleaning spill.					
			<u> </u>					·				
		and Cleanup A										
mside outin	area ee sina	i aica oi uni i	Jau Ouisi	de of baint.								
I hereby certi	fy that the i	nformation giv	en above	e is true and comp	lete to t	he hest of my	knowledge and pr	nderstar	nd that nurs	uant to NM	OCD rules and	
រណីពាធារាយនេ គា	i operaiors :	are required to	report a	nd/or file certain n	eiease r	edifications ar	id perform correct	live acti	ons for rele	ases which	may endanger	
public health	or the envir	omneni. The i	cceptane	ce of a C-141 repu	ri by th	d NMOCD ma	rked as "Final Re	port" d	oes not reli	eve the oner	aior of liability	
ainuid iiren t	gstrainnes h. t	ero imilod to mi maanaa waasa	ldquatety -1	r invesigate and n	cmediai	Contaminati	on that peac a thro	izt to gr	ound water	, aurfact wa	ici, human health	
full and carried			accep	Manue of a C-141	report o	ocs not renevi	our operator of r	usponsi	only for co	миривисс н	illi any other	
							OIL CONS	ieuv	ATTIVANI	ININ/IOI/	ia:	
							OIL COIN) <u>1</u> 5 4	1 F T T/\\	D1 4 101/	17.4	
Signature:			-									
Printed Name	: Jon Amm	ons			Approved by District Supervisor:							
Title: Manage	t.					Approvai Dau	<u> </u>		Expiration I)aie-		
					- 1				p.a.wiiOii I	1		
E-maii Addre	ss: jon@th	estandardenerg	y com_			Conditions of	Approval:			Attached	П	

Phone:575-393-8352



	Submit 1 Copy To Appropriate District Office	State of Ne	1		Form C-103
	District I	Energy, Minerals and	Natu	ıral Resources	October 13, 2009 WELL API NO.
	1625 N. French Dr., Hobbs, NM 88240 District II	OIL CONSERVA	TION	DIVIGION	WELL ATTNO.
	1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St			5. Indicate Type of Lease
	1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, N	1		STATE FEE 6. State Oil & Gas Lease No.
	<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Suitu I V, 1	111 0	, 505	6. State Off & Gas Lease No.
Г	87505	ICES AND REPORTS ON W	/ETTS	1	7. Lease Name or Unit Agreement Name
	(DO NOT USE THIS FORM FOR PROPO	SALS TO DRILL OR TO DEEPEN	OR PL	UG BACK TO A	7. Lease Name of Our Agreement Name
	DIFFERENT RESERVOIR. USE "APPLI PROPOSALS.)	CATION FOR PERMIT" (FORM C	-101) F(OR SUCH	Salty Dog,Inc.
	1. Type of Well: Oil Well	Gas Well Other X			8. Well Number Salty Dog #1
	2. Name of Operator				9. OGRID Number
+	Salty Dog, Inc. 3. Address of Operator		<u> </u>		10. Pool name or Wildcat
	PO Box 513 Hobbs,NM 88240				To. Tool name of Wildow
f	4. Well Location		 		
	Unit LetterJ	1980feet from th	ne	North/South	line and1980feet from
٠	the _East/Westline				
	Section 5	Township 19S	777	Range 36E	
		11. Elevation (Show wheth	er DR	, RKB, RT, GR, etc.)	
•			ļ		
	12. Check	Appropriate Box to Indic	ate N	ature of Notice, I	Report or Other Data
				•	•
	NOTICE OF IN PERFORM REMEDIAL WORK X	NTENTION TO: PLUG AND ABANDON	-	REMEDIAL WORK	SEQUENT REPORT OF: C
	TEMPORARILY ABANDON	CHANGE PLANS	j	COMMENCE DRIL	
	PULL OR ALTER CASING	MULTIPLE COMPL]	CASING/CEMENT	JOB x
	DOWNHOLE COMMINGLE				
	OTHER:		j	OTHER:	
					give pertinent dates, including estimated date
	of starting any proposed we proposed completion or rec		NMA	C. For Multiple Com	apletions: Attach wellbore diagram of
	14. Rigging down pulling unit	Rigging up drilling rig. To o	drill w	ith 3 ½ drill pipe to a	a depth of 2600'on 1-Dec-2010
	15.Drilled to a depth of 2600' o	n 27-Dec-2010. replacing 13	joints,	workover complete.	•
		,			
		 			
S	pud Date:	Rig Relea	nce Da	to:	
_		Rig Role	ase Da	i.e.	
I	hereby certify that the information	above is true and complete to	the be	st of my knowledge	and belief.
S	IGNATURE Jon Amm	ons12-1-2010		TITLE	Yard
M	fanager	DATE 12-1-2010			
т	ype or print name Jon Ammor		-		
1	ype of print name			-mail address: _575-390-3414	
		1110111			
		i			



WELL BORE SKETCH

100000000000000000000000000000000000000	NB01-001-0	McKnight@IncBrine	DATE	
FIELD/POOL		The state of the s		
PLUG BACK DEPTH	2958'	KB 3816 esi	E. ELEVA	200
	ter .		ELEVA	TION38061
	Hole Size	12 1/4"	·	
	· · · · · · · · · · · · · · · · · · ·	SURFACES CASING:		
		Size 8 5/8" Set at 1877	Weight 24# & 32#	Grade J~55
		Circulate 200	with 850	Sacks Come
		Remarks:		Sacks to Surfa
			a waxaa	
			1	
			and the second s	
\ \ \ \ \ \ \ \ \ \ \ \ \ \	in the second se			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		6 1/4"	Alice	
SI IX		PRODUCTION CASING:	*	13.73
		SizeWe		rada
	*	Sement loop: Calculated	Temperature	Sacks Cemen
11		Completed open hole source well.	on casing was run i	n this well.
		source well.		as a brine
		All months of		
		UBING:	A Property of the second	
		ize_2 7/8	ight6.5#	
I BOLL		lumber of Joints 93	91	ade J-55 28875
1 18	B	acker Set at <u>None</u> Ottom Arrangement: On		一个多次的一种"是国际的人"
I Reserve	- 12	Ottom Arrangement: Op Embing:	an ended and 15, Of	perforations i
	<u>-</u>			
		ODS:		
	The second of th	ze <u>N/A</u> as Anchor Set at	Number	
I K	Pu	Imp Setial		E Contract
The Designation of the Control of th	The state of the s	rangement	 4 (4) (4) (4) (4) (5) (5) (10) (4) (4) (4) (7) (7) 	20,000,000

Fresh injected in hole in sallap

File	Number	:			
		(For	OSE	Use	Only

Contact: Address: 2	alty Dog 410 Erskin 1660ck, 7x 79408		Work Phone: Home Phone: State: 7 Zi	
OSE Well Numbe a.Nw 1/4 N 2 b.	1/4 N 1/4 Section 2 d 1/4 m 43.238 (m), North	s Longitude:	-103 d 22	Subdivision m 14.803 s
Serial Number: # of Dials: Multiplier:		Make: Model: Units:		
4. METER READING Reading Date: 5. ADDITIONAL STA	6.2%1 TEMENTS OR EXPLANATIO	Meter Reading	. 244	599
		·		
(4) Please submit rea	uld be answered as follows: lings of figures on the meter an give any pertinent information			
:	_Do Not Write	Below This Li	ne	•
File Number:		Tr	n Númber:	
Form: wr-	-26 p	age 1 of 1		

Fresh injected in hole

File Number: (For OSE Use Only)

1. PERMITTEE Salty Dog	Work Phone: 806-741-1080
Contact:	Home Phone:
Address: 24/0 Erskin	11000 201000
Address	
city: Lybbock, 7x 79408	State: 74 Zip: 79408
2. WELL INFORMATION	0
D.	Range: 51.25 N.M.F.M. Subdivision Subdivision Subdivision Subdivision
	(IN), OTH ZOITE IS, INTO
3. TOTALIZING METER	
Serial Number:	Mala
# of Dials:	Make:
<pre># of Dials: Multiplier:</pre>	Model:
4. METER READING	
Reading Date: 6 28	Meter Reading: 245746
5. ADDITIONAL STATEMENTS OR EXPLANAT	IONS:
	:
*	
Submit	tted by:
INSTRUCTION:	. :
Specific questions should be answered as follows:	
(4) Please submit readings of figures on the meter a	and the date of the reading:
(5) Under comments, give any pertinent informatio	n concerning repair of meter
and dates out of service, etc.	
	•
	•
	·
	•
Do Not Writ	te Below This Line
File Number:	Trn Number:
Form: wr-26	page 1 of 1

Fresh injected in hole

File	Number	:			
		(For	OSE	Ųзе	Only)

Contact: Address:	Salty Dog 2410 Erskin		Home Phone:	
City:/	Lybbock, 7x 7940	28.	State: 🟒 Zi	s: <u>#7400</u>
OSE Well Numb a.NW 1/4 N b.	er: 30 - 025 E 1/4 NZ 1/4 Sect 30 d 4/ m 43.3 (m), North	237 s Longitude	:-103 d 22	m 14.505s
3. TOTALIZING ME	TER	·		
Serial Number # of Dials Multiplier	:	Make: Model: Units:		
4. METER READING	G			
	1.5.10	Meter Reading	3:24	872
5. ADDITIONAL STA	ATEMENTS OR EXPLAN	ATIONS:		
	Sub	mitted by:		
(4) Please submit rea	ould be answered as follows adings of figures on the met , give any pertinent inform: ervice, etc.	er and the date of the rea		
	Do Not W	rite Below This Li	.ne .	· · · · · · · · · · · · · · · · · · ·
File Number: Form: wr	-26	Tr page 1 of 1	m Number:	•

Fresh injected in hole

File	Number:				
	i	For	OSE	Use	Only)

1. PERMITTEE Name: Contact:	Salty Dog	Work Phone: 806-741-70	
Address:	2410 Erskin		-
City:	Lubbock, 7x 79408	State: 74 Zip: 79408	-
2. WELL INFORMA	NOITA	0	
ose Well Numb a.Nw 1/4 N b.	er: 30 - 025 - E 1/4 N£ 1/4 Sectio	26307 Brine Well 4 1 n: 05 Township: 195 Range: 36E N.M.P.M. Subdivision	- 1
c. Latitude:	30 d 41 m 43.23	8s Longitude:-103 d 22 m 16.803 (m), UTM Zone 13, NAD (27 or 83)	3
3. TOTALIZING MI	ETER		
Serial Number # of Dials Multiplier	:	Make: Model: Units:	-
4. METER READIN		Unites.	-
Reading Date:	7.12	Meter Reading: 25047	_
5. ADDITIONAL ST	ATEMENTS OR EXPLANATI		
			_
			_
			_
			_
	Submit	tted by:	_
INSTRUCTION: Specific questions sh	ould be answered as follows:		
(5) Under comments and dates out of	adings of figures on the meter a s, give any pertinent informatio service, etc.	and the date of the reading; in concerning repair of meter	
·			
	Do Not Writ	te Below This Line	-
File Number: Form: wi		Trn Number:	

File Number: (For OSE Use Only)

1. PERMITTEE Name: Contact: Address:	Salty Dog		Work Phone:	806-741-1080
City:	Lubbock, 7x 79408		State: 74 Zir	79408
2. WELL INFORM	IATION ther: 30 - 035	-26307	Brine We	川井工
a.Nw 1/4 f	nber: 30 - 025 VE 1/4 NE 1/4 Section 32 d 4/ m 43.24	on: 05 Township:	95 Range: 3	N.M.P.M. Subdivision m.14.803s
d. East	(m), North	(m), UTM Zo	one 13, NAD	(27 or 83)
3. TOTALIZING N	METER			
Serial Numbe # of Dial Multiplie	s:	Make:		
4. METER READI	1			20
Reading Date	7.19	Meter Reading:	252	70
5. ADDITIONAL S	TATEMENTS OR EXPLANAT	TONS:		· :
	· ·			
	Submi	tted by:	· · · · · · · · · · · · · · · · · · ·	
(4) Please submit (5) Under commer	should be answered as follows: readings of figures on the meter nrs, give any pertinent informati	and the date of the read on concerning repair of	ing; meter	
and dates out o	i service, etc.		•	
	Do Not Wri	te Below This Lin	e	
File Number: Form:	wc-26	Trn page 1 of 1	Number:	· .

File Number: (For OSE Use Only)

1. PERMITTEE	Hy Dog		rel. Dhana	806-741-108
	ity boy		_ Work Phone: Home Phone:	000 111100
Contact:		<u> </u>	_ Home Phone:	
Address: 24	10 Erskin		-	
City: Zvb	bock, 7x 79408		State: T+ Zi	o: 7940B
2. WELL INFORMATIO	N.			•
	30 - 025 ·	01 9 40 7	R 12	11#4
OSE Well Number:	30 - Uals .	2630 /	Drine Co	AT M D M
a./\u_1/4 \uZ	1/4 N# 1/4 Section	n:25 Township	: 143 Kange: 5	Subdivision
C. Tatitude: 20	d 41 m 43,28	As Longitude	-108 d 22	m 14.803 s
d. East	(m), North	(m), UTM	Zone 13, NAD	(27 or 83)
3. TOTALIZING METE				
Serial Number: _		Make:		
# of Dials:		Model:		
Multiplier: _	· · · · · · · · · · · · · · · · · · ·	Units:		
4. METER READING				
WANTED REPORTED	171	•	2556	٦.
Reading Date:	1.24	Meter Reading	g: <u>2555</u>	
				. •
5. ADDITIONAL STATE	EMENTS OR EXPLANAT			
		 		
	· ·			
				
			· · · · · · · · · · · · · · · · · · ·	
			 	
	' Contract	4.4 3.3		
	Submi	tted by:		
INSTRUCTION:		-	. :	
Specific questions should	be answered as follows:			
	gs of figures on the meter	and the date of the rea	ding:	
(5) Under comments, give	ve any pertinent information	on concerning repair of	of meter	
and dates out of servi	ice, etc.		•	
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File Number:	6	l .	n Number:	
Form: wr-26	2	page 1 of 1		

File Number: (For OSE Use Only)

1. PERMITTEE Name: Salty Dog Contact: Address: 24/0 Erskin	Work Phone: 806-741-/080
City: Lubbock, 7x 79408	State: 74 Zip: 79408
c. Latitude: 30 d 41 m 43.28	26367 Brine Well # 4 h: 05 Township: 195 Range: 316 N.M. P.M. Subdivision Subdivision (m), UTM Zone 13, NAD (27 or 83)
Serial Number: # of Dials: Multiplier:	Make:
4. METER READING Reading Date: 8. 2	Meter Reading: 2570 6
5. ADDITIONAL STATEMENTS OR EXPLANATI	ONS:
INSTRUCTION: Specific questions should be answered as follows:	ted by:
(4) Please submit readings of figures on the meter a (5) Under comments, give any pertinent information and dates out of service, etc.	
Do Not Writ	e Below This Line
File Number: Form: wr-26	Trn Number:page 1 of 1

File Number: (For OSE Use Only)

1. PERMITTEE Name: Contact: 2//2 526	Work Phone: 806-741-1080
Address: 2410 Erskin City: Lubbock, 7x 79408	State: 74 Zip: 79408
c. Latitude: 30 d 4/ m 43.33 d. East (m), North	26367 Brine Well # 4 n: 05 Township: 195 Range: 86 N.M.P.M. Subdivision 8s Longitude: -103 d 22 m 16.803 s (m), UTM Zone 13, NAD (27 or 83)
3. TOTALIZING METER	
Serial Number: # of Dials: Multiplier:	Make:
4. METER READING	
Reading Date: 8.9	Meter Reading: 24040
5. ADDITIONAL STATEMENTS OR EXPLANATI	ONS:
	·
	·
Submit	ted by:
INSTRUCTION:	
Specific questions should be answered as follows: (4) Please submit readings of figures on the meter a (5) Under comments, give any pertinent information and dates out of service, etc.	
Do Not Writ	e Below This Line
File Number:	Trn Number:
Form: wr-26	page 1 of 1

File Number: (For OSE Use Only)

1. PERMITTEE Name: Contact: Salty Dog	Work Phone: 806-741-/080
Address: 2410 Erskin	
City: Lubbock, 7x 79408	State: 74 21p: 79408
2. WELL INFORMATION	و ملو و و و و و و و و و و و و و و و و و
OSE Well Number: 30 - 035 - a.Nw 1/4 Ng 1/4 Ng 1/4 Ng 1/4 Section b. c. Latitude: 30 d 4/ m 43.33 d. East (m), North	26367 Brine Well 4 4 n: 05 Township: 195 Range: 34 N.M.P.M. Subdivision Subdivision (m), UTM Zone 13, NAD (27 or 83)
3. TOTALIZING METER	
Serial Number: # of Dials: Multiplier:	Make: Model: Units:
4. METER READING	01/01/0
Reading Date:	Meter Reading: 26214
5. ADDITIONAL STATEMENTS OR EXPLANAT	_
Control of	
	ted by:
INSTRUCTION: Specific questions should be answered as follows: (4) Please submit readings of figures on the meter a (5) Under comments, give any pertinent information and dates out of service, etc.	
Do Not Writ	te Below This Line
File Number:	Trn Number:
Form: wr-26	page 1 of 1

File Number: (For OSE Use Only)

1. PERMITTEE Name: Contact: Address:	Salty Dog 2410 Erskin	Work Pho	ne: <u>806-741-/0</u> 80 ne:
City:	Lubbock, 7x 79408	State: Tx	Zip: 79408
2. WELL INFORM	ATION		- 11-12-1
ose Well Num a.NW 1/4 N b. c. Latitude:	ber: 30 - 025 - 025 - 1/4 N£ 1/4 Sectio	26307 Brine L h: 05 Township: 193 Rang Bs Longitude: -103 d (m), UTM Zone 13, NA	e:36 N.M.P.M. Subdivision m 16.803 s (27 or 83)
3. TOTALIZING M		(m), OIN Zoile 13, NA	(2. 02 00)
Serial Numbe # of Dial Multiplie	ş:		
4. METER READI	NG		
Reading Date	8.23	Meter Reading: 24	309
5. ADDITIONAL S	TATEMENTS OR EXPLANAT	ions:	
· .			
	Submi	tted by:	
INSTRUCTION; Specific questions : (4) Please submit :	bould be answered as follows: eadings of figures on the meter :	and the date of the reading:	
(5) Under commer	its, give any pertinent informatio	n concerning repair of meter	
and dates out o	i service, etc.		•
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	Do Not Wri	te Below This Line	<u> </u>
File Number:		Trn Number:	·
Form: v	vr-26	page 1 of 1	

File Number: (For OSE Use Only)

Name: Salty Dog		Work Phone:	806-741-1080
Name: Jally Dog Contact:		Home Phone:	
Address: 2410 Erskin		TOMO TIMOTO	
City: Lubbock, 7x	79408	State: Try Zij	p: <u>79408</u>
2. WELL INFORMATION			، بلد ،
OSE Well Number: 30 - C	175 - 21.3m7	Brine We	1 4 4
a.NW 1/4 NE 1/4 NE 1/4	Section: 75 Townshi	p: 19.5 Range: 3	LE N.M.P.M.
n .			2000TAT2TOIL
c. Latitude: 32 d 41 m	43.235 s Longitud	le:-103 d 22	m 16.803 s
d. East(m), Nort	h(m), UTM	I Zone 13, NAD _	(27 or 83)
3. TOTALIZING METER			
Serial Number:	Make:		
# of Dials:	Model:		
Multiplier:	Units:		
4. METER READING		. 01 -	~~
Panding Data	Meter Readi	ng. 265	55
Reading Date:	Meter Readi	.ng:	
5. ADDITIONAL STATEMENTS OR EX	PLANATIONS:		•
			<u> </u>
	•		· · · · · · · · · · · · · · · · · · ·
•			
	Submitted by:		
		<u> </u>	
INSTRUCTION:		. :	
Specific questions should be answered as i	follows:	•	
(4) Please submit readings of figures on the	ne meter and the date of the r	eading;	
(5) Under comments, give any pertinent in	nformation concerning repair	r of meter	
and dates out of service, etc.			•
		•	
		•	
Do N	lot Write Below This	Line	
Eliza Manula and		Mana Manale e - e	•
File Number:		Trn Number:	
Form: wr-26	page 1 of 1		

F/W Injected in hole

File Number: (For OSE Use Only)

1. PERMITTEE Name: Contact:	Salty Dog	· · · · · · · · · · · · · · · · · · ·	Nork Phone:	806-741-108
Address: _	2410 Erskin			
City:	Lubbock, 7x 79408	stst	ate: 🏒 Zip	: 7940B
2. WELL INFOR	MATION			٠ ٠٠٠
OSE Well Nu	mber: <u>30 - 025</u> NE 1/4 NE 1/4 Secti	-26307 B	rine We	11-4
a.NW 1/4	NE 1/4 NE 1/4 Secti	on: 05 Township: 19	S Range:S	N.M.P.M. Subdivision
c. Latitude	30 d 41 m 41.2	Longitude:	03 d 32	m 14.803 s
d. East	(m), North	(m), UTM Zone	13, NAD	(27 or 83)
3. TOTALIZING	METER			
Serial Numb		Make:		
# of Dia	als:	Model:		
Multipli	.er:	Units:		
4. METER READ			21.3	-7
Reading Dat	:e: <u> </u>	Meter Reading:	201	<u> </u>
•	STATEMENTS OR EXPLANA	PIONS:	•	•
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			<u> </u>	
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•	•			
	Submi	tted by:		11
INSTRUCTION:				
Specific questions	should be answered as follows:		•	
	readings of figures on the meter ents, give any pertinent informati			
	of service, etc.	on concerning relient or me	,	
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File Number:		mm X	limber:	
Form:	wr-26	page 1 of 1		

File	Number		ACT.	TYaa	021.
		For	OSE	Use	Only

1. PERMITTEE Name:	alty Dog		Work Phone:	806-741-108
Contact:	3011700		Home Phone:	
	410 Erskin			
				man China Ph
City: 1	vbbock, 7x 79408		State: Ty Zi	p: 79408
2. WELL INFORMAT	TION		4	ر. عليه و
c. Latitude: 2	r: 30 - 025 1/4 N 1/4 Section 0 d 1/m 13.23 (m), North	s Longitude:	-103 d 22	m 14.803 s
3. TOTALIZING MET		, , , , , , , , , , , , , , , , , , ,		•
Serial Number:		Make: _		
# of Dials: Multiplier:		Model: _		
war crbrier.		Units: _		
4. METER READING		. •		,
	1.1.10- 6.21-10	Meter Reading		
5. ADDITIONAL STA	TEMENTS OR EXPLANAT	ions: Ris) n E	3B215
3373				2/1/10
-20 L M	← <i>V /</i> ΜΛ.			
	TROW	-1-10 +	0 0	<u> </u>
3010	r			
	r	9,127 BBL		
2010	r			
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	77:		./ 5	
	77:	9, 127 BBL	./ 5	
INSTRUCTION:	Submi	9, 127 BBL	./ 5	
INSTRUCTION: Specific questions sho	Submi	9, 127 BB4		
INSTRUCTION: Specific questions short (4) Please submit read	Submind be answered as follows:	tted by:	ing;	
INSTRUCTION: Specific questions short (4) Please submit read	Submind be answered as follows: lings of figures on the meter agive any pertinent information	tted by:	ing;	
INSTRUCTION: Specific questions shot (4) Please submit read (5) Under comments,	Submind be answered as follows: lings of figures on the meter agive any pertinent information	tted by:	ing;	
INSTRUCTION: Specific questions shot (4) Please submit read (5) Under comments,	Submind be answered as follows: lings of figures on the meter agive any pertinent information	tted by:	ing;	
INSTRUCTION: Specific questions shot (4) Please submit read (5) Under comments,	Submind be answered as follows: lings of figures on the meter agive any pertinent information	tted by:	ing;	
INSTRUCTION: Specific questions shot (4) Please submit read (5) Under comments,	Submind be answered as follows: lings of figures on the meter agive any pertinent information	tted by:	ing;	
INSTRUCTION: Specific questions shot (4) Please submit read (5) Under comments,	Submind be answered as follows: lings of figures on the meter agive any pertinent information rvice, etc.	tted by:	ing; meter	
INSTRUCTION: Specific questions shot (4) Please submit read (5) Under comments, and dates out of se	Submind be answered as follows: lings of figures on the meter agive any pertinent information rvice, etc.	tted by: and the date of the reach concerning repair of	ing; meter	
INSTRUCTION: Specific questions shot (4) Please submit read (5) Under comments,	Submind be answered as follows: lings of figures on the meter agive any pertinent information rvice, etc. Do Not Write	tted by: and the date of the reach concerning repair of	ing; meter	

Brine produced in \$51'S

File Number: (For OSE Use Only)

1. PERMITTEE	1. 7.		Manie Dhonas	806-741-1080
Name: Sal	ry voy		Home Phone:	<u> </u>
Contact:	- 6 - 16 -		nome rhone.	
	Frskin			
City: Lubb	ock 7x 79408		State: T+ Zir	: 79408
2. WELL INFORMATION	v .		a •	
OSE Well Number:	30 - 025 - /4 NZ 1/4 Section	26307	Brine We	
a.NW 1/4 NE 1	/4 N = 1/4 Section	n:75 Township:	95 Range: 5	LE N.M.P.M.
b.	,	Fr. 2. 2.		Subdivision
c. Latitude: 30	d 41 m 43.23	3s Longitude:	-103 d 22	m 16.803 s
d. East	(m), North	(m), UTM Z	one 13, NAD _	(27 or 83)
3. TOTALIZING METER				
Serial Number:		Make:	<u>, ,,,, , , , , , , , , , , , , , , , ,</u>	
# of Dials:		Model: _	,	
Multiplier:	·:	Units: _		
4. METER READING				
4. IMELIA DESCRICTO	1	'	$\mathfrak{D}t/\Lambda t$	(0
Reading Date:	6.621	Meter Reading	. 2901	\mathcal{U}
5. ADDITIONAL STATES	MENTS OR EXPLANATI	ions:		·
			····	· · · · · · · · · · · · · · · · · · ·
				
				
				
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	Submit	ted by:		
INSTRUCTION:			. 4	
Specific questions should be	he answered on fellows			
	s of figures on the meter a	and the data afthe reas	limos	
(5) Under comments, give	son nections information	n concerning sangir of	uug; Tmeter	
and dates out of service	e etc.	m concernant rebutt of	, MICOCL	
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File Number:		गिभा	n Number:	
Form: wr-26	· · · · · · · · · · · · · · · · · · ·	page 1 of 1		
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File Number: (For OSE Use Only)

1. PERMITTEE Name:	Salty Do			Work Phone:	806-741-108
Contact:	00011700	J		Home Phone:	
Address:	2410 Ersk	in			
City:	Lubbock, 7	¥ 79408		State: Ty Zij	o: 7940B
2. WELL INFOR	MATION				J.
	mber: 30 -	005-5	1.247	R. 1.	11344
OSE Well Nu	mber:	- Calo	NE Parakin	Drine Co	N M P M
b.		•	<u> </u>		Subdivision
c. Latitude	: 32 d 411	m 43.238	Longitude:	-103 d 22	m 16.803 s
d. East	(m), N	orth	(m), UTM Z	one 13, NAD	(27 or 83)
3. TOTALIZING					
Serial Numb	er.		Make:		
	ls:				
Multipli	er:		Units:		
4 3 (5000000 0000 4 50					
4. METER READ	ING	75-		69	
Reading Dat	e: 1/2	. 0	Meter Reading	. 07	7 J
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5. ADDITIONAL	STATEMENTS OR	EXPLANATION	is:		•
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	·	Submitte	d by:		
INSTRUCTION:					•
	should be answered	l of follows		•	
(4) Please submit	readings of figures	on the meter and	the date of the read	ling:	
(5) Under comme	nts, give any pertin	ent information c	oncerning repair of	meter	
and dates out	of service, etc.				
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Rilla Marchani				. Minnly or	
File Number: _ Form:		.		Number:	· · · · · · · · · · · · · · · · · · ·
romi:	MT_50	pa	ge 1 of 1		

File	Number	:			
		(For	OSE	Use	Only

1. PERMITTEE Salty Do	,	Work	Phone:	806-741-1080
Contact:	,	. Home	Phone:	
Address: 24/0 Frsk				
City: Lubbock, 7	× 79408	State	: Ty Zip	: <u>79408</u>
2. WELL INFORMATION			_	ر بليس
OSE Well Number: 30 a.NW 1/4 NE 1/4 NE b. c. Latitude: 32 d 41 d. East (m), N	m 43.238s	Township: 195	d 32	N.M.P.M. Subdivision m.14.803 s
3. TOTALIZING METER				
Serial Number:		Make:		
# of Dials: Multiplier:		Model:		
4. METER READING			_	
Reading Date: 1.5.	/O Me	ter Reading:	262.	8
5. ADDITIONAL STATEMENTS OF	EXPLANATIONS:	•		
				
				
·				
				
	Submitted h	у:		<u></u>
INSTRUCTION:				
Specific questions should be answere	d og follower			
(4) Please submit readings of figures	on the meter and the	data of the readings		
(5) Under comments, give any pertin	ent information conce	rning renair of meter		
and dates out of service, etc.	, , , , , , , , , , , , , , , , , , ,	with a fund of man-a-		
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EST a Marsham		m		•
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FOTU: MI-YO	bade	1 of 1		

File	Number	:			
		(For	OSE	Ŭsе	Only

1. PERMITTEE Name: Contact: Salty Dog	Work Phone: 806-741-/080
Address: 24/0 Frskin	
city: Lubbock, 7x 7940	8 State: T\(\text{Zip: 79408}
2. WELL INFORMATION	a sale .
c. Latitude: 30 d 41 m 43.2	-26357 Brine We Z. Lon: 05 Township: 195 Range: 516 N.M.P.M. Subdivision 385 Longitude: -103 d 22 m 16.803 s (m), UTM Zone 13, NAD (27 or 83)
3. TOTALIZING METER	
Serial Number: # of Dials: Multiplier:	Make: Model: Units:
4. METER READING	
Reading Date: 7.12	Meter Reading: 7621
5. ADDITIONAL STATEMENTS OR EXPLANA	TIONS:
Subm	dtted by:
INSTRUCTION: Specific questions should be answered as follows:	
(4) Please submit readings of figures on the mete(5) Under comments, give any pertinent information and dates out of service, etc.	r and the date of the reading;
Do Not Wr	ite Below This Line
File Number:	Trn Number:
Form: wr-26	page 1 of 1

File Number: (For OSE Use Only)

1. PERMITTEE Name: Contact: Address:	Salty Dog 2410 Erskin		Work Phone: Home Phone:	806-741-1080
City:	Lubbock, 7x 79408		State: T+ Zir	o: 79408_
2. WELL INFORM			0	11-4-1
b.	oer: 30 - 025 - E 1/4 NE 1/4 Section 30 d 4/ m 43.23 (m), North	1: 05 Township:	Brine We 195 Range: 5 -103 d 22 one 13, NAD	N.M.P.M. Subdivision m 14.803 s
3. TOTALIZING M	ETER			
Serial Number # of Dials Multiplie	s:			
4. METER READIN				,
Reading Date	7.19	Meter Reading	. <u>487</u>	4
5. ADDITIONAL ST	CATEMENTS OR EXPLANATI	ons:		
	Control			
TATOTTONY TOTAL AND T	Submit	ted by:		
(4) Please submit re	hould be answered as follows: eadings of figures on the meter a	ad the date of the read	ding;	
and dates out of	ts, give any pertinent information service, etc.	a concerning repair of	meter	
	Do Not Writ	e Below This Li	ne	
File Number:	DO NOT WITE		n Number:	· · · · · · · · · · · · · · · · · · ·
Form: w	r-26	page 1 of 1		

File	Number				
		(For	OSE	Ŭ\$e	Only

1. PERMITTEE				001 -244-108
Name:	Salty Dog			806-741-1080
Contact:	<u> </u>	. Но	me Phone:	
Address:	2410 Erskin			
. City:	Lubbock, 7x 7940	8 Sta	te: <u>7</u> Zi	o: 79408
2. WELL INFORM	ATION		_	· · · de · ·
c. Latitude:	30 d 41 m 43.2	- 26357 Br ion: 05 Township: 193 288s Longitude: -16 (m), UTM Zone	3 d 22	m 16.505s
3. TOTALIZING M	ETER			
Serial Number	••	Make:		
		Model:		
Multiplier		Units:		
4. METER READIN	G			•
		•	120	2
Reading Date	7.26	Meter Reading:	678	1
E AMMERICANIAN OF	A COUNTY AND THE PARTY AND A P			
2. WANTITIONAL 21	ATEMENTS OR EXPLANA			:
	v	·		
·	· · · · · · · · · · · · · · · · · · ·			
•	•			
	Subm	mitted by:		
INSTRUCTION:				•
	ould be answered as follows:			
(4) Please submit re	adings of figures on the mete	r and the date of the reading;		
(5) Under comment	s, give any pertinent informa	tion concerning repair of met	er	
and dates out of	service, etc.			
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File Number:		Trn Nú	mber:	
Form: w	r-26	page 1 of 1		

File Number: (For OSE Use Only)

1. PERMITTEE	Salty Do	· ·		Work Phone:	806-741-108
Name: Contact:	Jairy De	7		Home Phone:	
Address:	2410 Ers	(10		110110	
	2710 1121				
City: _	Lubbock ;	74 79408		State: Ty Zin	o: 79408
2. WELL INFOR	MATION				1_
				2	11-4
OSE Well Nu	mber:	- 025 - 2	16307	orine W	11
a.NW 1/4	NE 1/4 NE	- 025 - 2 1/4 Section:	5 Township:	95 Range:5	N.M.P.M.
		m 43, 238			
c. Latitude	: 32 d 41	m ~23.225	(m), UTM Ze	no 13 Nan	127 or 83)
d. East	(R),	North	(m), OIM 20	oue to, man —	
3. TOTALIZING	METER		*		
Serial Numb	er:		Make:		
# of Dia			Model:		
Multipli			Units:		
4. METER READ	ING	1		/2	$\gamma \gamma$
m . at . m .	\ \X	.)	· · · · · · · · · · · · · · · · · · ·	ω) d 1
Reading Dat	e:	<i></i>	Meter Reading:		
E AMBRONOMIAN		-	•~		
5. ADDITIONAL	STATEMENTS O	R EXPLANATION	(S: .		
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		-		<u></u>	· · · · · · · · · · · · · · · · · · ·
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		Submitte	а ву:		*
INSTRUCTION:				. 4	•
Specific questions	should be answer	od as fallows			
(4) Please submit	readings of figure	s on the meter and	the data of the read	ince	
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and dates out	of service, etc.	women titel mustoff or	meerwing repair or	Щомі	
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ile Number: _	100	; 		Number:	
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File	Number				
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1. PERMITTEE Name:	Salty Dog		Work Phone:	806-741-108
Contact:			Home Phone:	
Address:	2410 Frskin		•	
. City:	Lubbock, 7x 79408		State: Tx Zi	p: 7940B
2. WELL INFORM			.	و بيلوسو .
OSE Well Num	per: 30 - 025 - 025 - 1/4 NE 1/4 Section	26307	Brine W	LA F. N. M. P. M.
<u> </u>				Sundivision
<pre>c. Latitude: d. East</pre>	30 d 4/ m 43.23 (m), North	s Longitude: (m), UTM Z	-103 d -22 one 13, NAD _	m 16.503 s (27 or 83)
3. TOTALIZING N				
Serial Numbe		Make:		
Multiplie	s:	Units:		
4. METER READI	NG			
Reading Date	8.9	Meter Reading	<u>. 52</u>	31
5. ADDITIONAL S	TATEMENTS OR EXPLANAT	IONS.	•	
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Form:	wr-26	page 1 of 1		

File	Number	:			
		(For	OSE	Ŭse	Only

1. PERMITTEE Salty Dog	Work Phone: 806-741-/08
Contact:	Home Phone:
Address: 2410 Erskin	
City: Lubbock, 7x 79408	State: 74 Zip: 79408
2. WELL INFORMATION	.
OSE Well Number: 30 - 025 -	24307 Brine Well 74
a.NW 1/4 NE 1/4 NE 1/4 Section	n:75 Township: 75 Range: N.M.F.M.
h.	SUDGIVISION
d. East (m), North	Ss Longitude: 103 d 22 m 16.803 s (m), UTM Zone 13, NAD (27 or 83)
3. TOTALIZING METER	
Serial Number:	Make:
# of Dials:	Model:
Multiplier:	Units:
4. METER READING	
Reading Date:	Meter Reading: 5940
Medding Date.	Meter Reading:
5. ADDITIONAL STATEMENTS OR EXPLANAT	IONS:
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and dates out of service, etc.	a concerning repair of meter
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2. WELL INFORMATION OSE Well Number: 30 - 035 - 26357 Brine Well Y a NW 1/4 NE 1/4 NE 1/4 Section: 05 Township: 193 Range: 36 N.M.P.M. Subdivision: 0. Latitude: 30 d y/m www.section: 05 Township: 193 Range: 36 N.M.P.M. Subdivision: 0. Latitude: 30 d y/m www.section: 07 Township: 193 d y/m www.section: 07 d]			
2. WELL INFORMATION OSE Well Number: 30 - 035 - 24367 Brine Well **Y a.NW 1/4 NE 1/4 Ne 1/4 Section: 05 Township: 193 Range: 316 N.M.P.M. Subdivision of Lastitude: 30 d 4/ m 43.238 s Longitude: 103 d 22 m 16.203 s (m), North (m), UTM Zone 13, NAD (27 or 83) 3. TOTALIZING METER Serial Number: Make: Model: Model: Units: 4. METER READING Reading Date: Meter Reading: 9152 5. ADDITIONAL STATEMENTS OR EXPLANATIONS: INSTRUCTION: Specific questions should be answered as follows: (4) Please submit readings of figures on the meter and the date of the reading; (5) Under comments, give any pertinent information concerning repair of meter and dates out of service, etc. Do Not Write Below This Line	Address: 2410 Ersk	10			
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c. Latitude: 30 d m 43.23 s Longitude: 103 d 20 m 16.502 s d. East	2. WELL INFORMATION				1.
c. Latitude: 30 d m 43.23 s Longitude: 103 d 20 m 16.502 s d. East	OCE Mall Number	- nas - 21	3507 Br	no lide	11-47
c. Latitude: 30 d m 43.23 s Longitude: 103 d 20 m 16.502 s d. East	a.NW 1/4 NE 1/4 NE	1/4 Section: 7)	5 Township: 95	Range:	AE N.M.P.M.
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File Number: (For OSE Use Only)

1. PERMITTEE Salty Dog	Work Phone: 806-741-/080
Name: Jairy Uog Contact:	Home Phone:
Address: 2410 Erskin	Home Prono.
City: Lubbock, 7x 7940	State: 74 Zip: 79408
2. WELL INFORMATION	g
c. Latitude: 30 d 41 m 43.	ion: 05 Township: 195 Range: 315 N.M.P.M. Subdivision 238s Longitude: 103 d 22 m 16.803 s (m), UTM Zone 13, NAD (27 or 83)
d. East (m), North	(m), UTM Zone 13, NAD (2/ UL 03/
3. TOTALIZING METER	
Serial Number:	Make:
# of Dials: Multiplier:	Model:
Multiplier:	Units:
4. METER READING	050.0
Reading Date: 8.30	Meter Reading:
5. ADDITIONAL STATEMENTS OR EXPLAN	ATIONS:
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Suo	mitted by:
INSTRUCTION:	
Specific questions should be answered as follows	
(4) Please submit readings of figures on the met	er and the date of the reading:
(5) Under comments, give any pertinent informs	ation concerning repair of meter
and dates out of service, etc.	
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File	Number					
		1	For	OSE	Ŭзе	Only

1. PERMITTEE Name: Contact: Address:	Salty Dog	Work Phone: 806-741-70 Home Phone:
City:	Lubbock, 7x 7940	8 state: 74 zip: 79408
2. WELL INFOR		-26307 Brine Well # 1
ν.	: 30 d 41 m 43.2	ion: 05 Township: 95 Range: 36 N.M.P.M. Subdivision Subdivision (m), UTM Zone 13, NAD (27 or 83)
3. TOTALIZING		(III), OTH 2016 13, WAS (2. 61 00)
Serial Numb # of Dia Multipli	als:	Make: Model: Units:
4. METER REAL Reading Date	acla	Meter Reading: 7917
5. ADDITIONAL	STATEMENTS OR EXPLANA	
	Subn	utted by:
(4) Please submit (5) Under comm	s should be answered as follows: t readings of figures on the mete ents, give any pertinent informa	r and the date of the reading;
and dates out	of service, etc.	
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File Number: Form:	wr-26	Trn Number:

Chavez, Carl J, EMNRD

From:

Chavez, Carl J, EMNRD

Sent:

Wednesday, November 18, 2009 7:02 AM

To:

'Prather, Steve'; 'gandy2@leaco.net'; 'James Millett'; 'Clay Wilson'; 'Bob Patterson'; 'David

Pyeatt'; 'garymschubert@aol.com'; 'Gary Schubert'

Cc: Subject: Griswold, Jim, EMNRD; VonGonten, Glenn, EMNRD; Sanchez, Daniel J., EMNRD UIC Class III Well Annual Report Schedule for Submittal & Content REMINDER- 2010

Attachments:

Annual Reports 2010.xls

Gentlemen:

Good morning. You may recall an e-mail message from me this past Summer alerting you to the reporting provision of your current discharge permit (permit) and how the New Mexico Oil Conservation Division (OCD) is stepping up its efforts to track reporting under issued permits.

Please find attached a spreadsheet listing the dates that OCD expects to receive your Annual Reports and/or any reporting requirements from your permit. If you are an operator with limited reporting requirements based on your permit, you are welcome to follow the format and content required from more recent permit renewals issued by the OCD, which are more comprehensive and constitute a report, Any renewed permits will likely require similar content anyway.

Please plan on meeting the Annual Report submittal dates in January of 2010 as failure to submit the report will constitute a violation under the Federal Underground Injection Control (UIC) Program and reporting to the United States Environmental Protection Agency, which could result in the shut-in and/or plug and abandonment of your brine production well.

Please contact me if you have questions. Thank you in advance for your cooperation in this matter.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505

Office: (505) 476-3490 Fax: (505) 476-3462

E-mail: CarlJ.Chavez@state.nm.us

Website: http://www.emnrd.state.nm.us/ocd/index.htm (Pollution Prevention Guidance is under "Publications")

CC: Brine Well File "Annual Reporting"

NMOCD UIC Annual Reports

11/18/09

L. Annual Report: All operators shall submit an annual report due on January 31 of each Annual Rpt. Due Date Submitted 01/31/10 Basic Energy Operator Permit ID **BW-2**

Annual Report Contents

year. The report shall include the following information:

1. Cover sheet marked as "Annual Brine Well Report, name of operator,

permit #, API# of well(s), date of report, and person submitting report.

2. Brief summary of brine wells operations including description and

any remedial or major work on the well. Copy of C- 103.

reason for

3. Production volumes as required above in 21.G. including a running total should

be carried over to each year. The maximum and average injection pressure.

4. A copy of the chemical analysis as required above in 21.1-1.

5. A copy of any mechanical integrity test chart, including the type of test,

open to formation or easing test.

6. Brief explanation describing deviations from normal production methods.

7. A copy of any leaks and spills reports.

8. If applicable, results of any groundwater monitoring.

9. Information required from cavity/subsidence 21.F. above.

10. An Area of Review (AOR) summary.

11. Sign-off requirements pursuant to WQCC Subsection G 20.6.2.5101.

01/31/10
Gandy Corp.
BW-4

L. Annual Report: All operators shall submit an annual report due on January 31 of each

year. The report shall include the following information:

 $1. \ \, \text{Cover sheet marked as "Annual Brine Well Report, name of operator,} \\ 8W$

permit #, API# of well(s), date of report, and person submitting report.

2. Brief summary of brine wells operations including description and

any remedial or major work on the well. Copy of C- 103.

reason for

3. Production volumes as required above in 21.6. including a running total should

be carried over to each year. The maximum and average injection pressure.

4. A copy of the chemical analysis as required above in 21.1-1.

5. A copy of any mechanical integrity test chart, including the type of test, i.e.

open to formation or easing test.

6. Brief explanation describing deviations from normal production methods.

7. A copy of any leaks and spills reports.

8. If applicable, results of any groundwater monitoring.

9. Information required from cavity/subsidence 21.F. above.

10. An Area of Review (AOR) summary.

11. Sign-off requirements pursuant to WQCC Subsection G 20.6.2.5101.

Mo. w/ Qtly Rpts.

PAB- Salty Dog

BW-8

BW-22	Gandy Corp.	01/31/10	L. Annual Report: All operators shall submit an annual report due on January 31 of each year. The report shall include the following information:
			 Cover sheet marked as "Annual Brine Well Report, name of operator, BW permit #, API# of well(s), date of report, and person submitting report. Brief summary of brine wells operations including description and
			reason for any remedial or major work on the well. Copy of C-103. 3. Production volumes as required above in 21.G. including a running total
			should be carried over to each year. The maximum and average injection pressure.
			4. A copy of the chemical analysis as required above in 21.H.5. A copy of any mechanical integrity test chart, including the type of test, i.e.
			open to formation or casing test. 6. Brief explanation describing deviations from normal production methods.
			 A copy of any leaks and spills reports. If applicable, results of any groundwater monitoring. Information required from cavity/subsidence 21 .F. above. An Area of Review (AOR) summary. Sign-off requirements pursuant to WQCC Subsection G 20.6.2.5101.
BW-25	Basic Energy	01/31/10	6. Production/Injection Volumes/Annual Report: The volumes of fluids

injected (fresh water) and produced (brine) will be recorded monthly and submitted to the OCD

report due on the thirty-first (31) day of January of each year.

Santa Fe Office in an annual

BW-27	Mesquite	01/10/10	7. Production/Injection Volumes: The volumes
			water) and produced
			(brine) will be recorded monthly and submitte
			Office in an annual
			report due on the first day of January of each
BW-28	BW-28 ey Ernergy Services LL	01/31/10	L. Annual Report: All operators shall submit an ar
		,	J1 0+ 020h

- s of fluids injected (fresh
 - ted to the OCD Sanla Fe
- h year.
- annual report due on January 31 of each
- year. The report shall include the following information:
- 1. Cover sheet marked as "Annual Brine Well Report, name of operator, B≪
- permit #, API# of well(s), date of report, and person submitting report.
 - 2. Brief summary of brine wells operations including description and reason for
- any remedial or major work on the well. Copy of C-103.
- 3. Production volumes as required above in 21.6. including a running total should
- be carried over to each year. The maximum and average injection pressure.
- 4. A copy of the chemical analysis as required above in 21.H,
- 5. A copy of any mechanical integrity test chart, including the type of test,
- open to formation or casing test.
- 6. Brief explanation describing deviations from normal production methods.
- 7: A copy of any leaks and spills reports.
- 8. If applicable, results of any groundwater monitoring.
- 9. Information required from cavity/subsidence 21.F. above.
- 10. An Area of Review (AOR) summary.
- 11. Sign-off requirements pursuant to WQCC Subsection G 20.6.2.5101.

an annual report due on the thirty-first (31) day of January of each year.

Santa Fe Office in

2009 Annual Report

Major Repairs and Modifications1
Brine pit Monitoring Reports2
Reverse Flow Periods3
Pressure records4
Formation MIT5
Cavern Sonar6
Annual Production of Brine7
Water Analysis Reports8
Monitor Well Install and Ground Water Report9
Ground Water Monitoring Report10
Pond Release Evaluation Report11
Remedial Design Report12
Solid Waste Disposal13
Permit Renewal Information14

In 2009 no major repairs or modifications were made to the facility. In February 2009 the well was pulled in order to perform a sonar test of the cavern on 2-5-09. Daniel B. Stephens preformed well installation and pump test in 2009 which is detailed in their report.

Brine Pit Monitoring Report

Date	1-6-03	
Results_	Empty	
Signed_	Zy Wallace	

Brine Pit Monitoring Report

Date	2-10-03
Results_	Empty
C' 1	

Brine Pit Monitoring Report

Date	3-4-03	
Results_	Empty	

Signed Ty Wolher

Brine Pit Monitoring Report

Results Enply

Signed / Mallace

Brine Pit Monitoring Report

Date	5/7/03	
_		

Results Empty

Signed Juliu

Brine Pit Monitoring Report

Date	6/16/03
Results_	Empty
Signed	La lla Mus

Brine Pit Monitoring Report

Date <u>7/8/03</u>

Results Enpty

Signed J. Wallace

Brine Pit Monitoring Report

Date	9/11/	03
	' /	

Results Empty

Signed J. Wallow

Brine Pit Monitoring Report

Date	/0	15/03	
		,	

Results Empty

Signed Jollan

Date	11/17/03	
Results	Emphy	 ·
Sioned	7.4/1.	

Date	12/12/03	
Results_	Emphy	
Signed_	Zy Wallaw	

Date	1/8/04
Results_	Empty
Signed	Za Wallace

Date	2/5/04	
Results_	Empty	
Signed	1-1/John	

Date	3/5/04
Results_	Enpty
Signed	Ty Wollaw

Date	4/7/04
Results_	Enpty
Signed_	Ty Wallace

Date	5/5/04
Results_	Empty
Signed	Za Wallow

Date	6/1/04	
Results_	Empky	
Signed_	Ty Wallace	

Date	7/7/04	
Results_	Emply	
Cianad		
Signed_	Ty Wallace	

Date	8/5/04	
Results_	Empky	
Signed_	Dy Wallace	

Date	8/12/03	
Results_	Empty	
Signed_	Zy Wallace	

Date	9/2/04	
Results_	Emply	
Signed_	In Wellace	

SALTY DOG INSPECTION DATE 3-12-67

BRINE LINE INSPECTION RESULTS O &
BRINE PIT LINER INSPECTION
RESULTS AND
OBSERVATIONS Food Condition
BRINE PIT MONITOR WELL
RESULTS Empty
FRESH WATER MOITOR WELLS
DATE SAMPLES TAKEN
(QUARTERLY)
(QUARTERET)
FRESH WATER METER READING
START END
BRINE SALES FOR MONTH
BBLS
INSPECTED BY Jallace

SALTY DOG INSPECTION DATE 3-19-07

BRINE LINE II RESULTS Ok	NSPECTION	
RESULTS ANI	NER INSPECTION NS Good Condition	
BRINE PIT MORESULTS	ONITOR WELL	
DATE SAMPL	R MOITOR WELLS ES TAKEN)	
~	R METER READING END	
BB	FOR MONTH SLS Y Zallan	

SALTY DOG INSPECTION DATE 3-26-07

BRINE LINE INSPECTION RESULTS Ok	
BRINE PIT LINER INSPECTION RESULTS AND OBSERVATIONS Good Condition	
BRINE PIT MONITOR WELL RESULTS Engty	
FRESH WATER MOITOR WELLS DATE SAMPLES TAKEN (QUARTERLY)	
FRESH WATER METER READING START END	
BRINE SALES FOR MONTHBBLS INSPECTED BY Zalelle	

SALTY DOG INSPECTION DATE 4-2-07

BRINE LINE INSPECTION	
RESULTS OK	
BRINE PIT LINE	R INSPECTION
RESULTS AND	
OBSERVATIONS	Good Condition
<u> </u>	
BRINE PIT MON	ITOR WELL
RESULTS Emp	
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<u> </u>	ONITOR WELL	
DATE SAMPL	R MOITOR WELLS ES TAKEN )	
START		<u>~</u>
	FOR MONTHSLS	

# SALTY DOG INSPECTION DATE 5-5-08

BRINE LINE INSPERESULTS No Leak	
BRINE PIT LINER	INSPECTION
RESULTS AND OBSERVATIONS_	Good Condition
BRINE PIT MONIT RESULTS Empty	
FRESH WATER MO	OITOR WELLS
DATE SAMPLES T. (QUARTERLY)	
FRESH WATER MI START	
	R MONTH
BBLS	<u>.</u>
INSPECTED BY	1D Sough

## SALTY DOG INSPECTION DATE 5-13-08

BRINE LINE INSPECTION  PESIT TS	
RESULTS No Leaks	
BRINE PIT LINER INSPECTION	
RESULTS AND	
OBSERVATIONS Good Condition	
	<del>,</del>
BRINE PIT MONITOR WELL	
RESULTS Empty	
FRESH WATER MOITOR WELLS	
DATE SAMPLES TAKEN	
(QUARTERLY)	
FRESH WATER METER READING	
START END	
BRINE SALES FOR MONTH	
BBLS	
DIGDECTED DV 4 0 0	
INSPECTED BY Say	

## SALTY DOG INSPECTION DATE 5-19-08

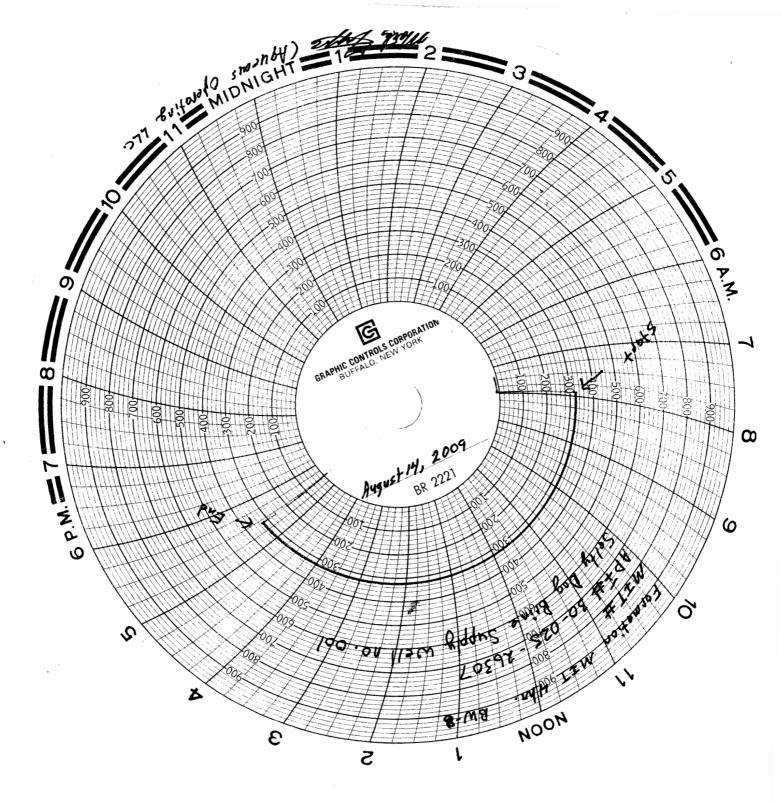
BRINE LINE IN RESULTS No	SPECTION Leaks
RESULTS AND	ER INSPECTION  IS Good Condition
BRINE PIT MO RESULTS Em	NITOR WELL
DATE SAMPLE	R MOITOR WELLS S TAKEN
FRESH WATER	R METER READING END
BRINE SALES I	FOR MONTH
<b>INSPECTED BY</b>	1D Sum

# SALTY DOG INSPECTION DATE 5-27-08

BRINE LINE IN		
RESULTS No	heaks	
RRINE PIT LINI	ER INSPECTION	
RESULTS AND		
· · ·	S Good Condition	
BRINE PIT MO	NITOR WELL	
RESULTS Emp	0 Fy	
FRESH WATER	MOITOR WELLS	
DATE SAMPLE		
(QUARTERLY)	· <del>-</del>	
( • • • • • • • • • • • • • • • • • • •		
FRESH WATER	METER READING	
START		•
BRINE SALES F	OR MONTH	
BBI		
INSPECTED BY	10 Sun	

Salty Dog following the sonar test did reverse flow (fresh water down the tubing and brine up the casing) at the request of Jim Griswold. Salty Dog however after three weeks of this was not able to produce brine and returned to normal flow (fresh down the casing and brine up the tubing) Once monthly Salty dog pumps aprox. 200 barrels down the tubing to clean it.

Salty Dog always keeps the well pressure above 300 psi and never exceeds 450psi. The only time Salty Dog ever goes below 300 is to perform workover operations.





ECHO - LOG

Salty Dog, Inc.

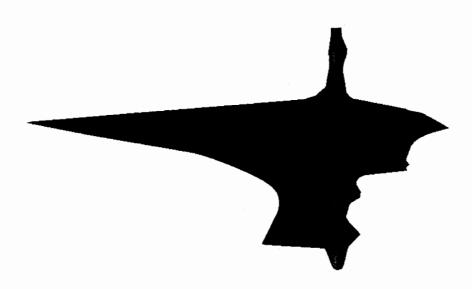
**Brine Well No: 1** 

**Hobbs, New Mexico** 

First SOCON Sonar Well Services Survey

02/05/2009

093013



#### **SOCON Sonar Well Services, Inc.**

11133 I-45 South, Ste. E Phone (936) 441-5801 Conroe, Texas 77302 Fax (936) 539-6847

e-mail: soconusa@socon.com

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02/05/2009

### **Results of the Cavern Survey**

by means of Echo-Sounding

in the cavern

**Brine Well No: 1** 

Date: 02/05/2009

093013

**Customer:** 

Salty Dog Inc.

Lubbock, Texas

### Responsible for the survey:

Surveyor:

**HL Van Metre** 

Leadership:

Mr. James Millet HL Van Metre

Interpreter: Control:

Mr. Richard Lawrence

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#### **Contents**

Summary of results

Legend

**Enclosures:** 

Volume (diagrams and lists)

Diameter and radii (diagrams and lists)

Perspective views

Maximum plots (top view)

Horizontal sections

Maximum plot (side view)

Vertical sections



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### **Summary of results**

#### Well details

All depths are given as:

Datum level for all depths: surface

Shoe of the cemented 5-1/2" - casing: 1871.0 ft

Reference depth for ECHO-LOG: 1871.0 ft

Depth correction: 0.0 ft

Pressure at the well head: 0.0 psi

### **Details of survey equipment**

Measuring vehicle used: Grey Wireline

Tools used: XN02 – R185

### **General details**

Number of runs:

Measured horizontal sections: 18

Measured tilted sections: 0

Lowest survey depth: 1903.0 ft

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#### Maximum and minimum dimensions with ref. to the measuring axis

#### Reference direction:

magnetic north

Determination out of 12 vertical sections derived from horizontally and tilted measured data at 15 degree intervals:

Minimum radius:	0.0 ft
Depth:	1903.1 ft
Direction:	0°
Maximum radius:	38.2 ft
Depth:	1882.0 ft
Direction:	195°
Highest point of cavern:	1871.0 ft
Horizontal distance:	0.6 ft
Direction:	0°
Lowest point of cavern:	1903.1 ft
horizontal distance:	0.0 ft
Direction:	0°

Lowest point in the measuring axis:

1903.1 ft

Determination out of 18 horizontal sections in the depths between 1871 feet and 1903 feet at 5 degree intervals:

41.0 ft
1882.0 ft
200°
52.1 ft
1882.0 ft
20 - 200°

Volume

Volume: 720.0 Bbls

Depth range: 1871.0 ft <--> 1903.0 ft

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#### Interpretation

Supposing a rectilinear propagation of ultrasonic waves all recorded echo travel times were converted into distances by using the subsequent speeds of sound:

5020 feet/second to 5020 feet/second in brine (measured)

In the case of recording several echoes along one trace of echo signals, the representative echo signal was selected according to the level of amplitude, transmission time, and density of measured points and the shape of the cavern.

#### **Horizontal sections**

18 horizontal sections at following measured depths are included as graphical plots in this report:

1871.0 ft	1872.0 ft	1874.0 ft	1876.0 ft	1878.0 ft	1880.0 ft	1882.0 ft
1884.0 ft	1886.0 ft	1888.0 ft	1890.0 ft	1892.0 ft	1894.0 ft	1896.0 ft
1898.0 ft	1900.0 ft	1902.0 ft	1903.0 ft			

#### **Tilted sections**

0 sections recorded with tilted echo-transducer at following measured depths are presented in the vertical sections:

#### **Vertical sections**

The shape of the cavern was determined by interpretation of all horizontally and tilted measured data and is presented by 36 vertical sections in this report.

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#### Maximum plots (top view)

The maximum plot presents the largest extension of the cavern in a top view. The first picture shows the areas of all horizontal sections and the area resulting out of the vertical sections (hatched). The resulting total area is shown in the second picture (cross hatching) together with the largest single area.

In both pictures the total centre of gravity of the cavern is shown with its distance and its direction referring to the measuring axis.

The total centre of gravity is derived out of the envelope, which is the connection line of the largest cavern extension in every direction

#### **Perspective views**

Several perspective drawings are included in this report to give a quick review of detailed relations.

#### Pockets in the cavern wall

Pockets in the cavern wall, which have been identified by the tilted echo-transducer, were transferred from the vertical sections to the respective horizontal sections. The resulting additional areas have been added to the calculated areas.

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### **LEGEND**

	Measured point recorded with horizontal adjusted ultrasonic transducer
	Measured point recorded with tilted or vertical orientated ultrasonic transducer
<b>A</b>	Interpolated point derived from the vertical sections
	Connection line between two measured points in order to calculate the volume
	Assumed connection line (in areas which are not sufficiently covered by measured points)
N	Magnetic north determined with compass inside the tool (Magnetic compass in areas without tubing) (Fibre gyro compass in areas with tubing)
(N)	Assumed north direction (for sections in magnetic disturbed surroundings without fibre gyro compass)
a	Longest extension in section (Without considering of hidden leached pockets)
b	Longest extension in section perpendicular to a (Without considering of hidden leached pockets)
a/b	Ratio of longest extensions in section which are perpendicular to each other
(xx m²)	Area in actual section resulting from hidden leached pockets
r~	Average radius
<b>©</b> 02183	35 29.04 2002 Job number and survey date

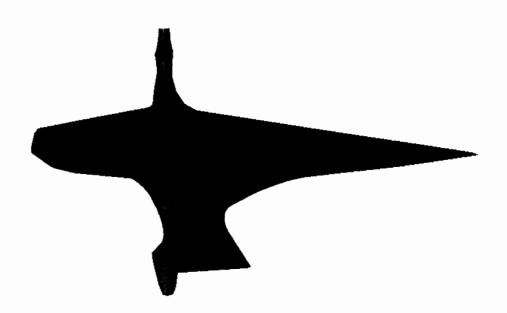


Brine Well No: 1

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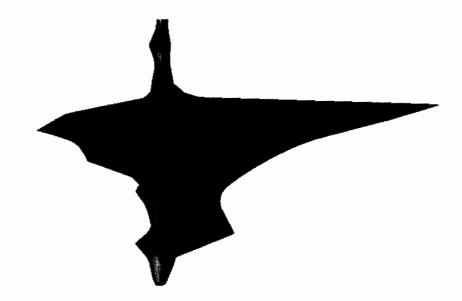
Brine Well No: 1 --> 0° <--



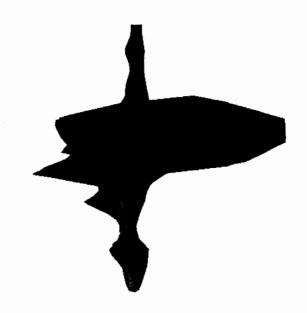
Brine Well No: 1 --> 60° <--



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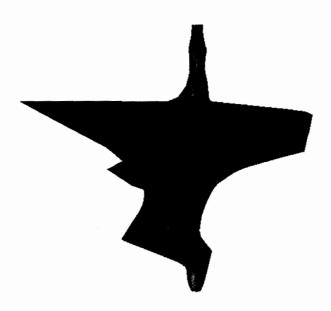
Brine Well No: 1 --> 120° <--



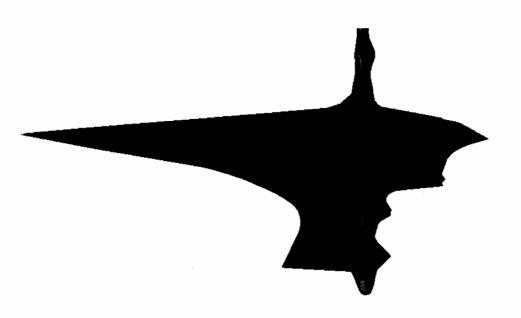
Brine Well No: 1 --> 180° <--



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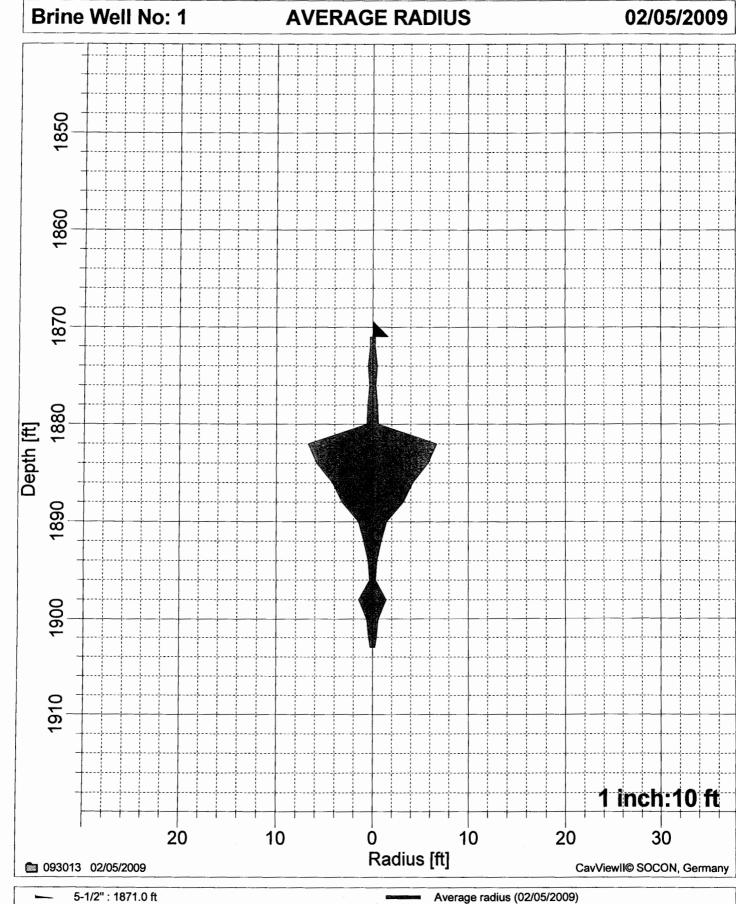


Brine Well No: 1 --> 240° <--



Brine Well No: 1 --> 300° <--

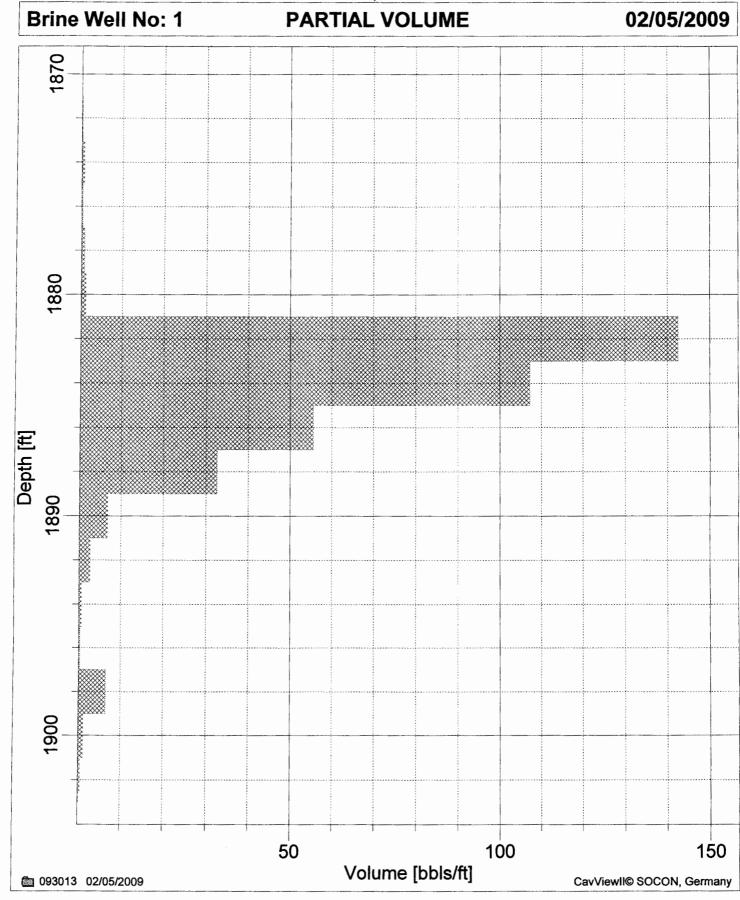






Partial volume

SOCON Sonar Well Services, Inc.





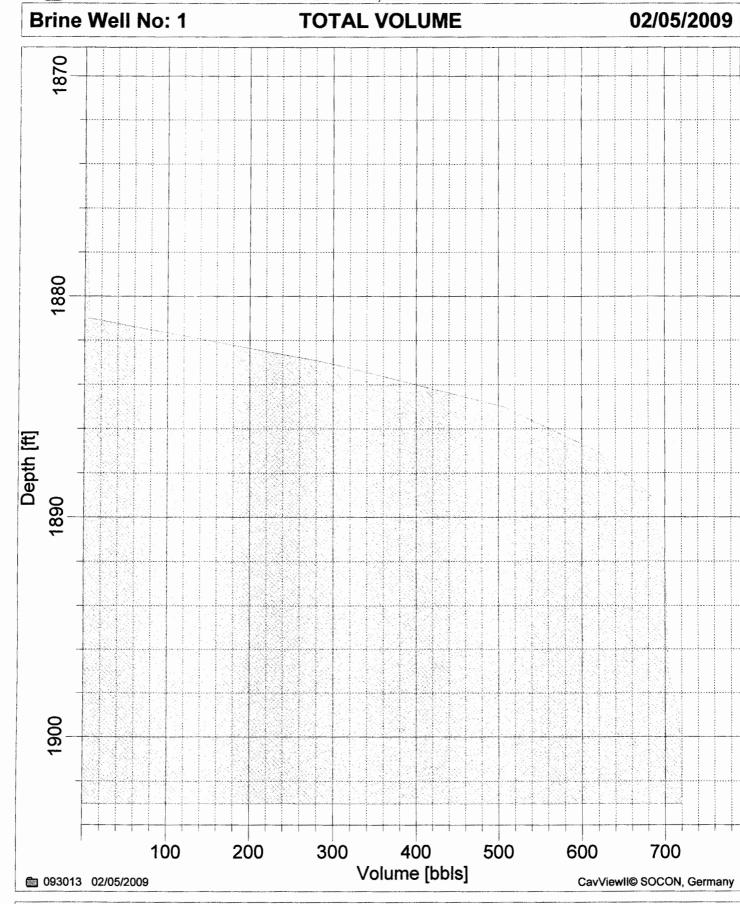
## Volume list

Brine Well No: 1

093013

Depth [ft]	Radius [ft]	Area [ft²]	Depth range [ft]		Volume	[bbls]
			from	to	partial	total
						_
1871.0	0.6	1	1871.0	1871.5	0	0
1872.0	0.7	1	1871.5	1873.0	0	0
1874.0	1.1	4	1873.0	1875.0	1	2
1876.0	8.0	2	1875.0	1877.0	1	3
1878.0	1.2	5	1877.0	1879.0	2	4
1880.0	1.5	7	1879.0	1881.0	2	7
1882.0	16.0	800	1881.0	1883.0	285	292
1884.0	13.8	602	1883.0	1885.0	214	506
1886.0	10.0	312	1885.0	1887.0	111	617
1888.0	7.6	183	1887.0	1889.0	65	683
1890.0	3.5	38	1889.0	1891.0	14	696
1892.0	2.2	15	1891.0	1893.0	5	702
1894.0	1.1	4	1893.0	1895.0	1	703
1896.0	0.8	2	1895.0	1897.0	1	704
1898.0	3.4	37	1897.0	1899.0	13	717
1900.0	1.5	7	1899.0	1901.0	2	719
1902.0	1.0	3	1901.0	1902.5	1	720
1903.0	0.6	1	1902.5	1903.0	Ö	720





Total volume = 720.0 bbls



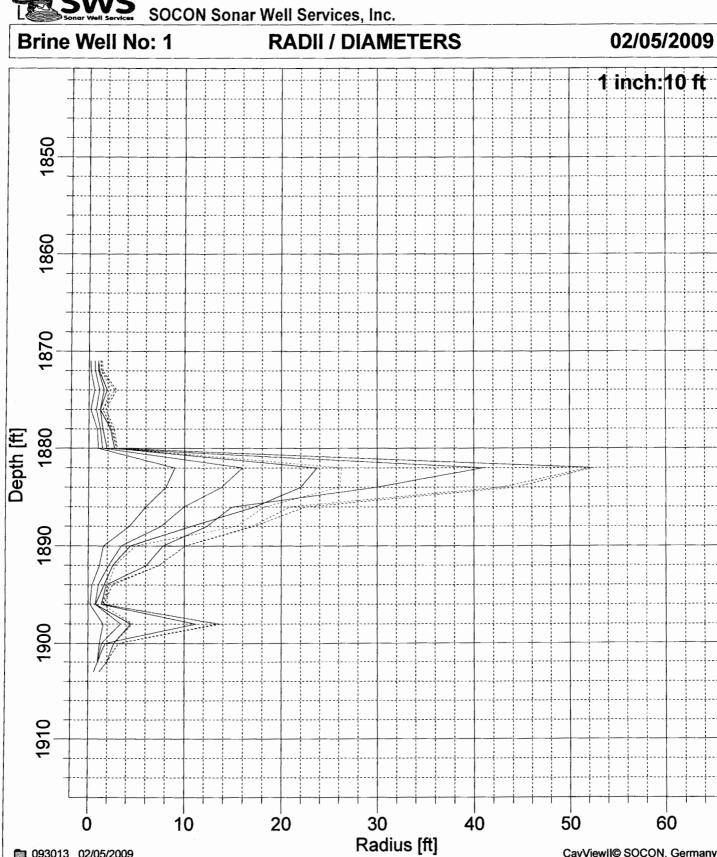
## Table of volumes (foot by foot)

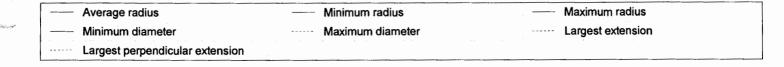
Job-No.: 093013, Name: Brine Well No: 1, Date: 02/05/2009											
depth	volume	depth	volume	depth	volume	depth	volume	depth	volume		
[ft]	[bbls]	[ft]	[bbls]	[ft]	[bbls]	[ft]	[bbls]	[ft]	[bbls]		
		1871	01	1872	0	1873	0	1874	1		
1875	2	1876	2	1877	3	1878	3	1879	4		
1880	51	1881	7	1882	149	1883	292	1884	399		
1885	5061	1886	5621	1887	617	1888	650	1889	683		
1890	6891	1891	6961	1892	6991	1893	702	1894	702		
1895	7031	1896	703	1897	704	1898	710	1899	717		
1900	718	1901	719	1902	720	1903	720				

Brine Well No: 1 Report number: 093013 Date: 02/05/2009



**3 093013 02/05/2009** 





CavViewII© SOCON, Germany



### Table of radii and diameters

Brine Well No: 1

093013

Depth	Radius [MIN]		Radius [MAX]		Diame	eter [MIN]	[MAX]		
[ft]	[ft]	[°]	[ft]	[°]	[ft]	[°]	[ft]	[°]	
1871.0	0.2	121	1.0	240	1.0	22 <-> 202	1.3	60 <-> 240	
1872.0	0.2	76	1.0	240	1.1	173 <-> 353	1.3	45 <-> 225	
1874.0	0.6	122	1.6	0	1.9	122 <-> 302	2.7	5 <-> 185	
1876.0	0.2	110	1.2	235	1.2	167 <-> 347	1.5	45 <-> 225	
1878.0	0.9	37	1.5	220	2.3	15 <-> 195	2.5	155 <-> 335	
1880.0	1.0	72	1.9	255	2.7	165 <-> 345	2.9	45 <-> 225	
1882.0	9.0	95	41.0	200	23.7	145 <-> 325	52.1	20 <-> 200	
1884.0	8.1	117	29.9	195	22.0	65 <-> 245	43.0	20 <-> 200	
1886.0	6.0	107	14.9	290	17.2	75 <-> 255	20.9	110 <-> 290	
1888.0	4.3	292	12.3	75	10.7	15 <-> 195	17.0	75 <-> 255	
1890.0	1.6	277	7.8	155	4.4	85 <-> 265	10.1	160 <-> 340	
1892.0	1.2	2	6.1	100	2.6	2 <-> 182	7.4	100 <-> 280	
1894.0	0.4	246	1.9	75	1.7	12 <-> 192	2.3	75 <-> 255	
1896.0	0.2	216	1.4	80	0.8	19 <-> 199	1.6	95 <-> 275	
1898.0	1.6	307	11.2	180	4.5	115 <-> 295	13.4	0 <-> 180	
1900.0	1.2	117	1.8	220	2.7	122 <-> 302	3.2	40 <-> 220	
1902.0	1.0	2	1.0	0	2.0	2 <-> 182	2.0	0 <-> 180	
1903.0	0.6	2	0.6	0	1.2	2 <-> 182	1.2	0 <-> 180	



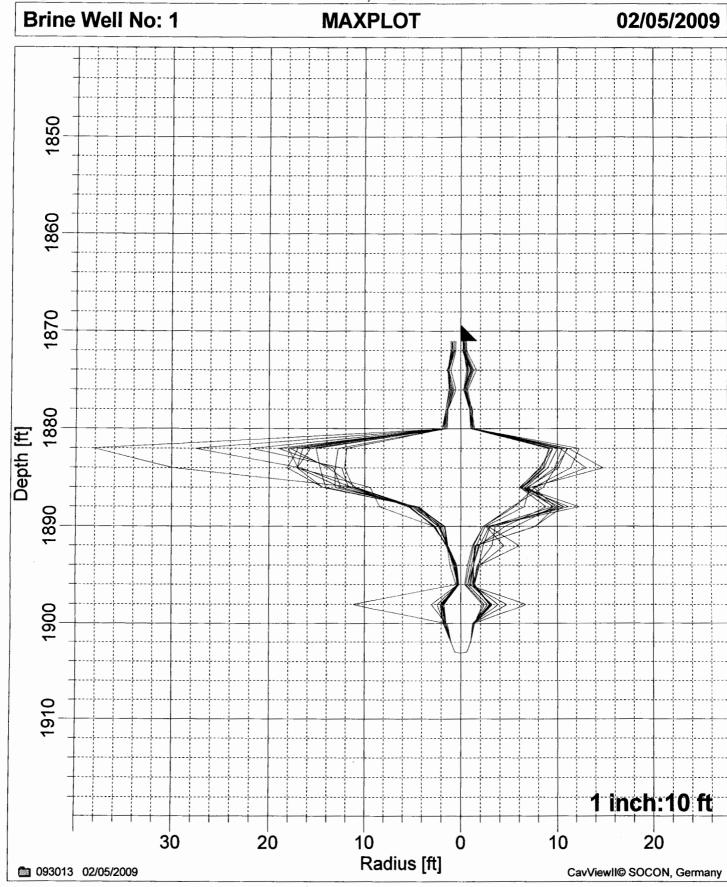
## Table of radii in N-E-S-W-NE-SE-SW-NW presentation

Brine Well	No: 1		093013						02/05/2009
Depth	<r></r>	N	E	S	W	NE	SE	SW	NW
[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
1871.0	0.6	0.6	0.3	0.5	1.0	0.3	0.2	0.8	0.9
1872.0	0.7	0.6	0.2	0.5	1.0	0.4	0.3	0.9	0.9
1874.0	1.1	1.6	1.0	1.0	1.3	1.1	0.6	1.2	1.3
1876.0	0.8	0.7	0.3	0.5	1.2	0.4	0.3	1.1	1.1
1878.0	1.2	1.1	0.9	1.3	1.5	0.9	1.0	1.5	1.5
1880.0	1.5	1.4	1.0	1.4	1.9	1.1	1.1	1.8	1.7
1882.0	16.0	11.1	9.1	15.7	18.0	10.5	10.0	21.8	15.1
1884.0	13.8	9.8	8.5	17.1	17.0	9.7	9.0	12.4	14.7
1886.0	10.0	8.5	6.2	9.4	12.5	6.9	6.3	11.7	14.1
1888.0	7.6	5.2	11.2	8.4	4.5	9.5	9.6	5.3	4.4
1890.0	3.5	2.3	2.8	2.7	1.7	2.9	5.6	2.6	2.1
1892.0	2.2	1.2	6.0	1.4	1.3	1.9	1.6	1.5	1.3
1894.0	1.1	0.7	1.9	1.1	0.4	1.3	1.3	0.6	0.5
1896.0	0.8	0.4	1.4	0.5	0.2	1.0	1.2	0.2	0.3
1898.0	3.4	2.2	3.0	11.2	1.8	3.2	3.8	2.1	1.7
1900.0	1.5	1.4	1.4	1.4	1.6	1.4	1.2	1.8	1.5
1902.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1903.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



5-1/2": 1871.0 ft

SOCON Sonar Well Services, Inc.

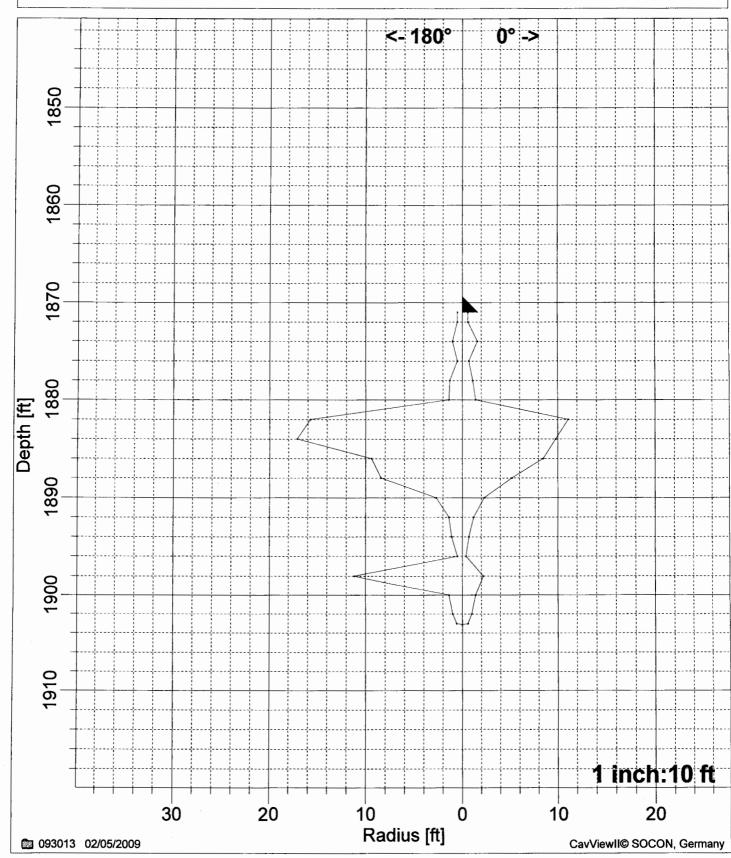






(02/05/2009)

02/05/2009

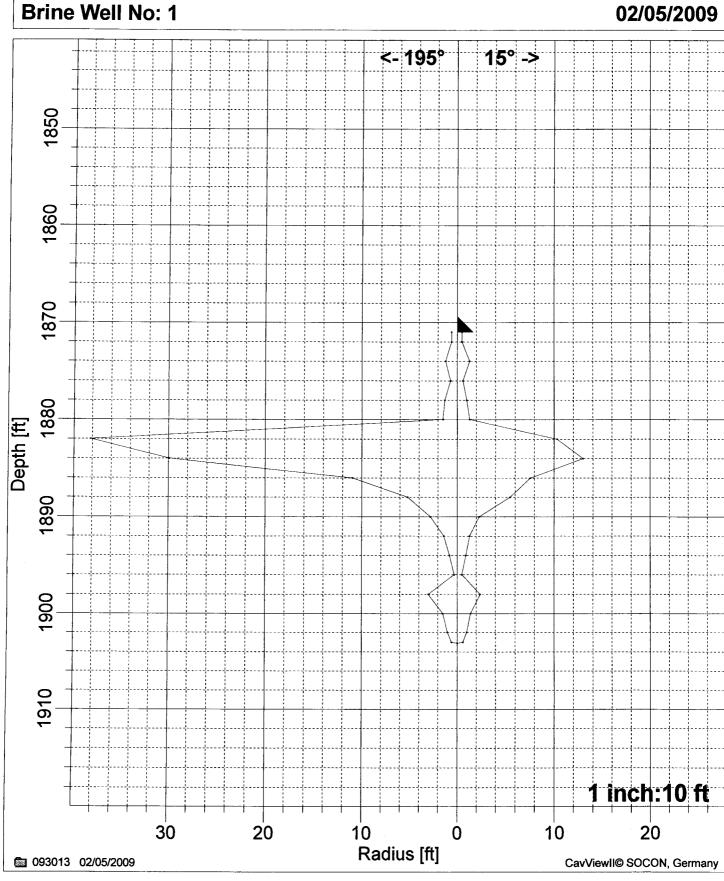




(02/05/2009)

## SOCON Sonar Well Services, Inc.



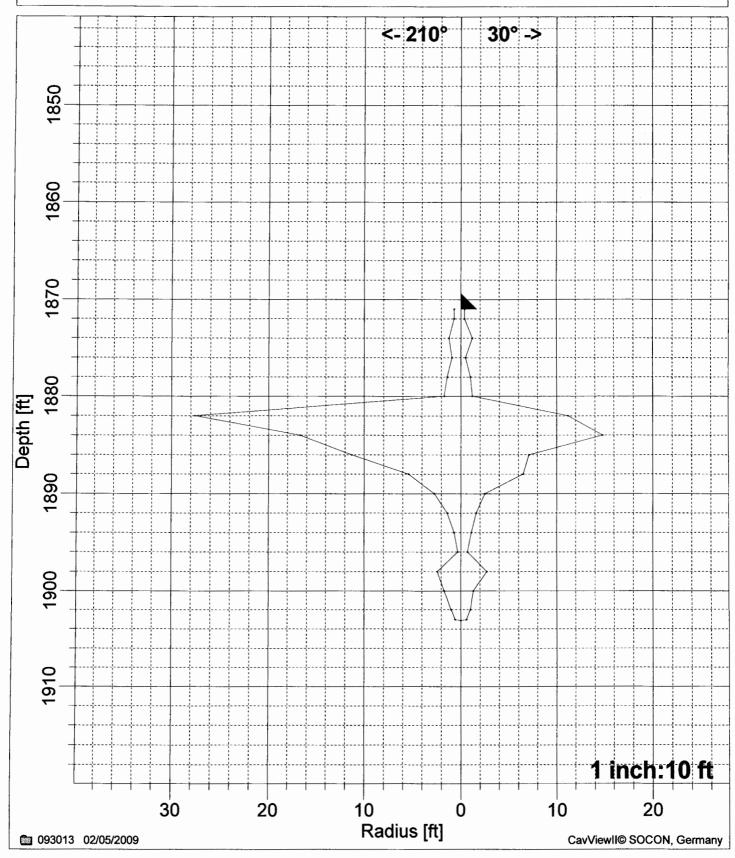




**Brine Well No: 1** 

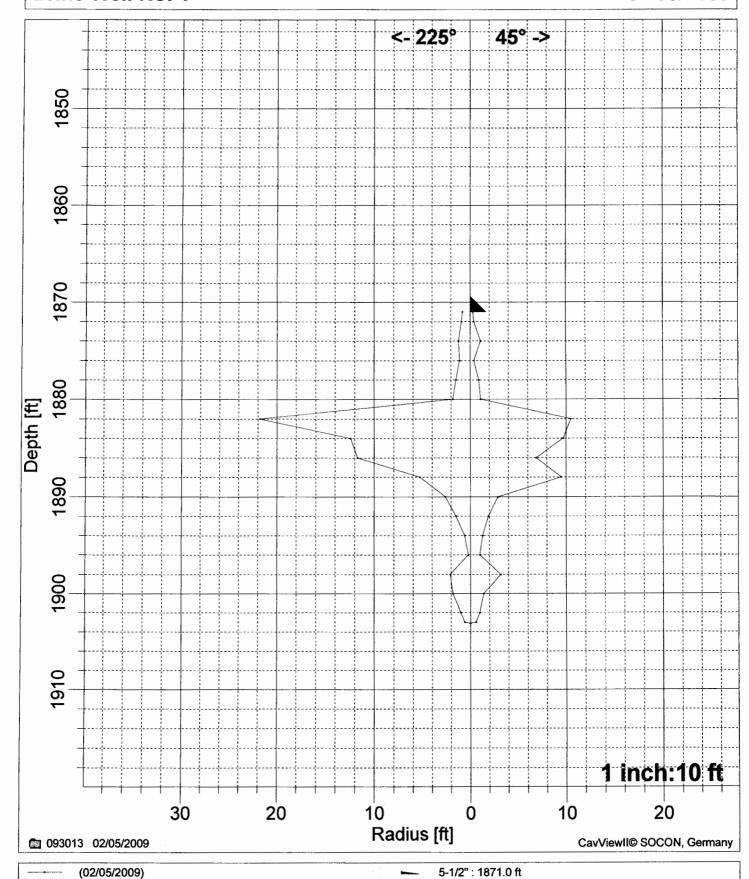
(02/05/2009)

02/05/2009







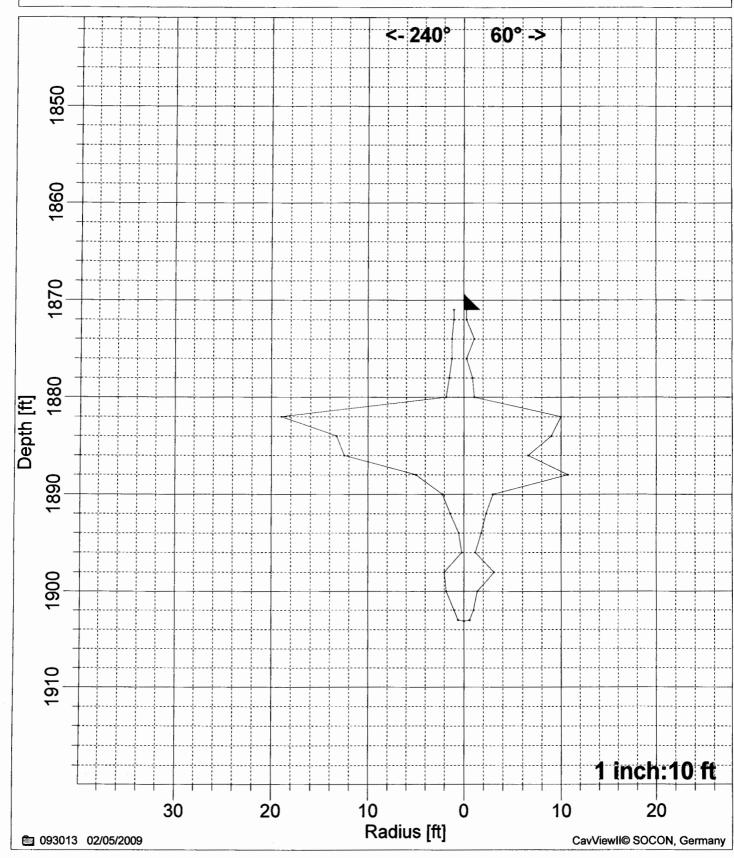






(02/05/2009)

02/05/2009

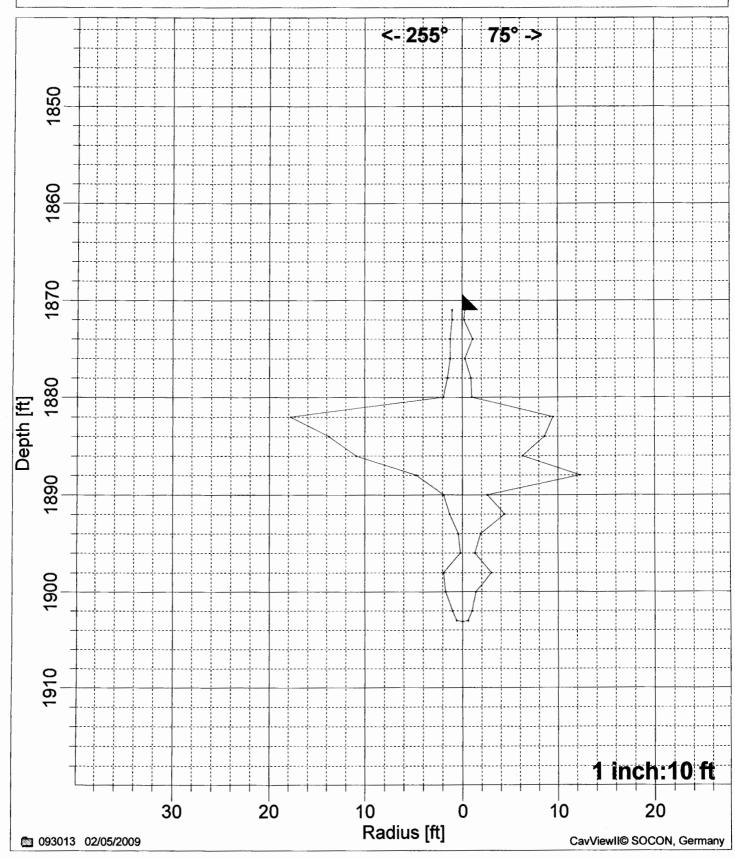




Brine Well No: 1

(02/05/2009)

02/05/2009

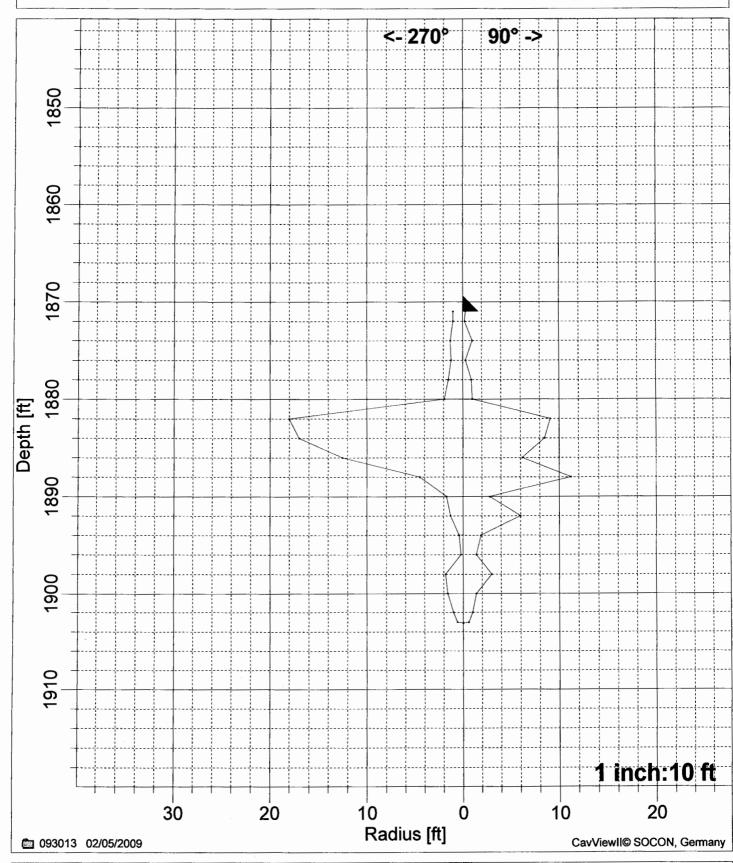






(02/05/2009)

02/05/2009



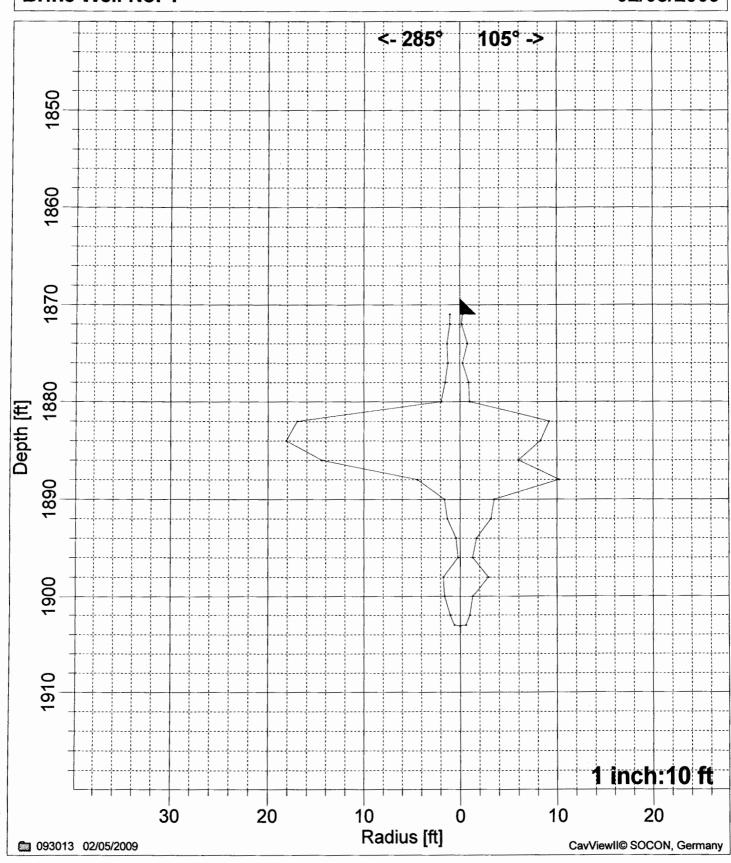
5-1/2": 1871.0 ft





(02/05/2009)

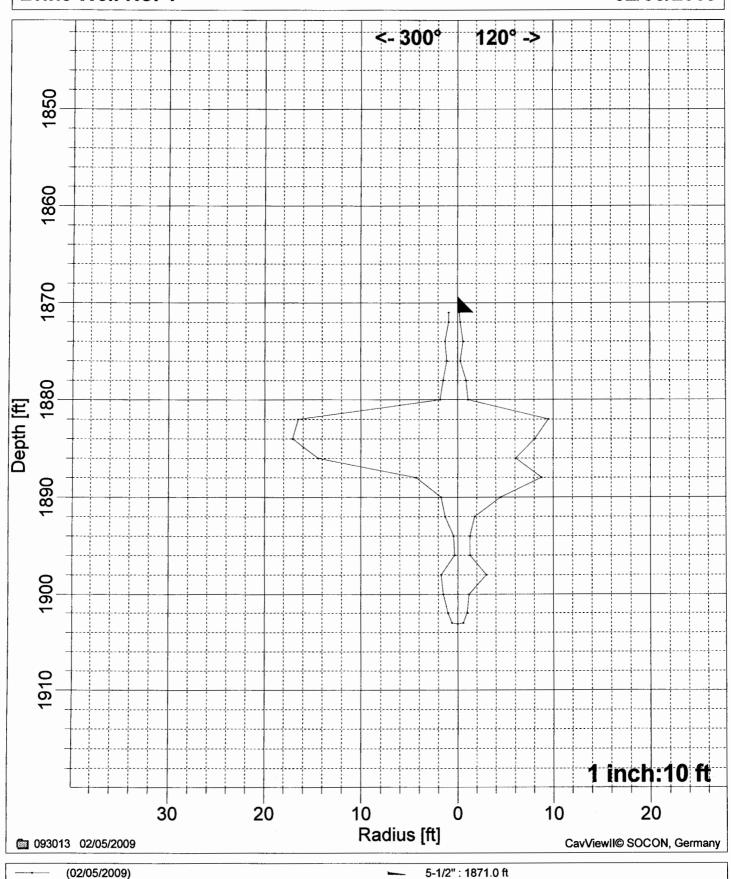
02/05/2009



5-1/2": 1871.0 ft



Brine Well No: 1 02/05/2009

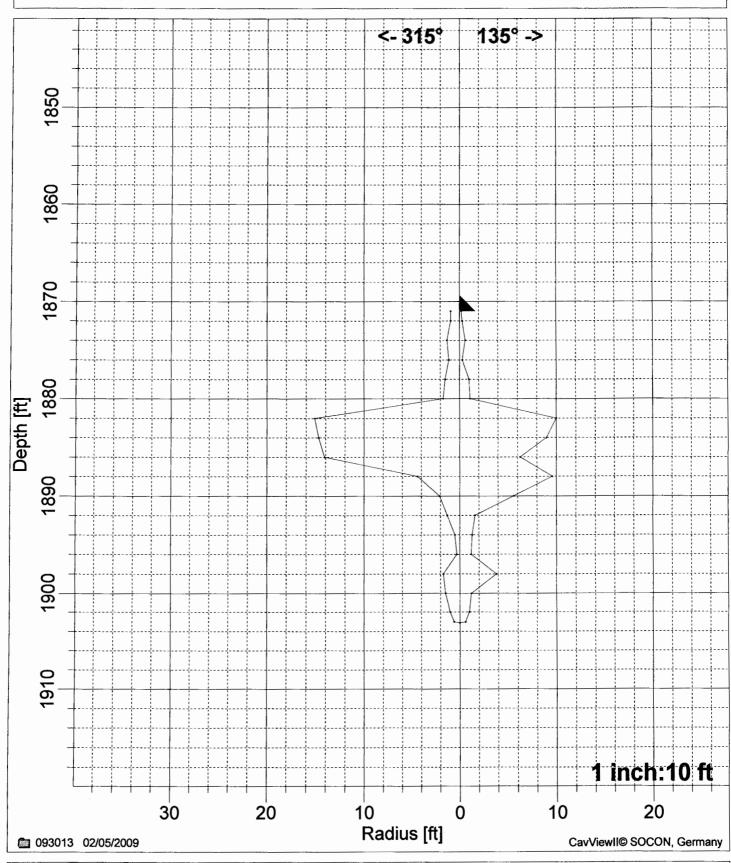






(02/05/2009)

02/05/2009



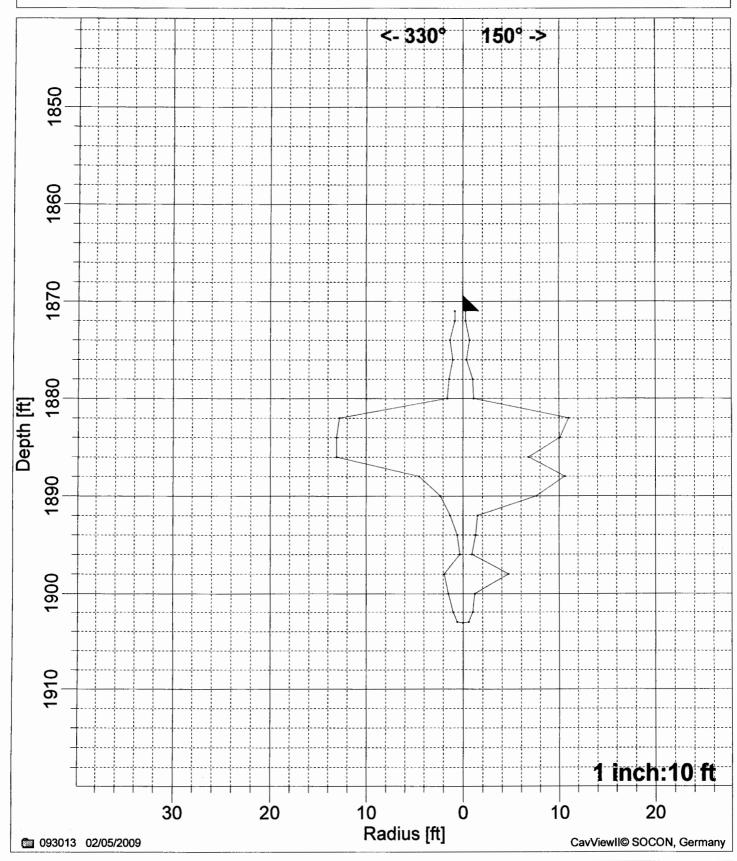
5-1/2": 1871.0 ft



Brine Well No: 1

(02/05/2009)

02/05/2009

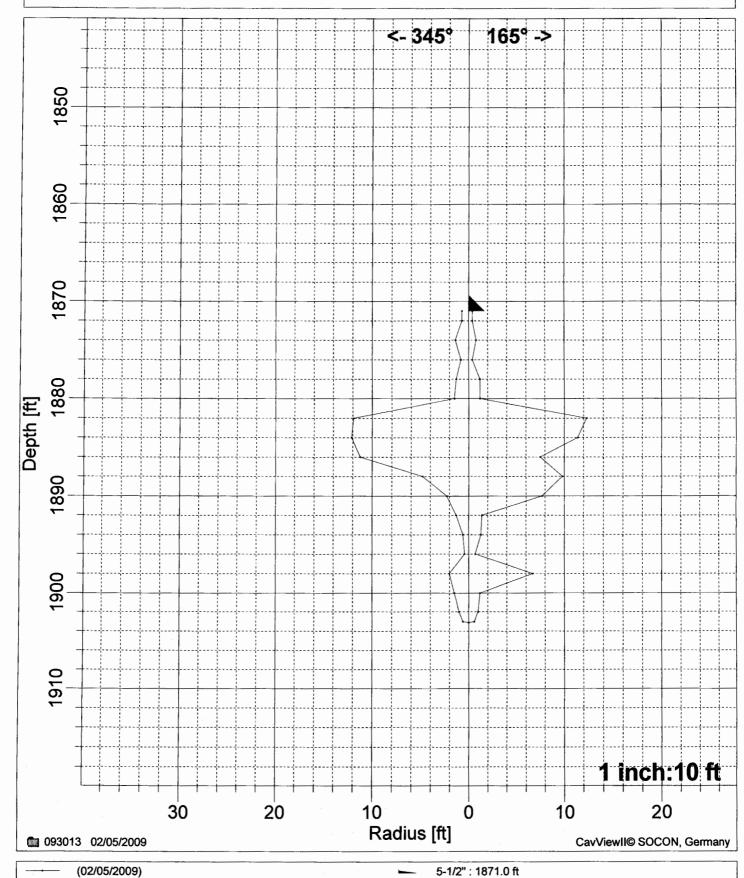


5-1/2": 1871.0 ft



**Brine Well No: 1** 

02/05/2009



Brine Well No: 1

093013

02/05/2009

### **HORIZONTAL SECTIONS**

Brine Well No: 1 Report No.: 093013

Utilized speed of sound: 5020 ft/s to 5020 ft/s

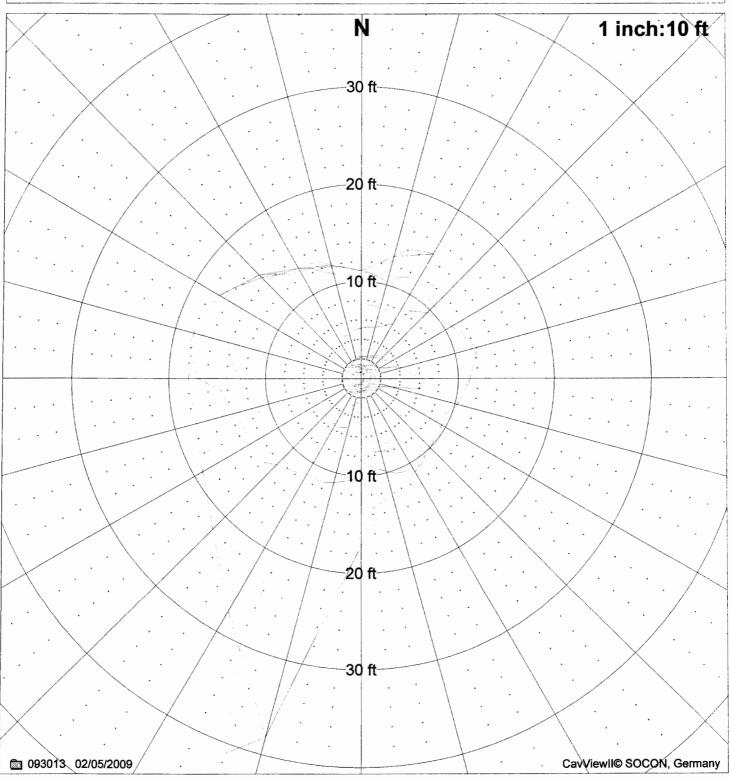
Measuring date: 02/05/2009 Scale: 1: 10

Horizontal sections measured at following depths:

1871.0 ft	1872.0 ft	1874.0 ft	1876.0 ft	1878.0 ft	1880.0 ft	1882.0 ft
1884.0 ft	1886.0 ft	1888.0 ft	1890.0 ft	1892.0 ft	1894.0 ft	1896.0 ft
1898.0 ft	1900.0 ft	1902.0 ft	1903.0 ft			



Brine Well No: 1 MAXPLOT 02/05/2009



Vertical maximum plot

Horizontal sections

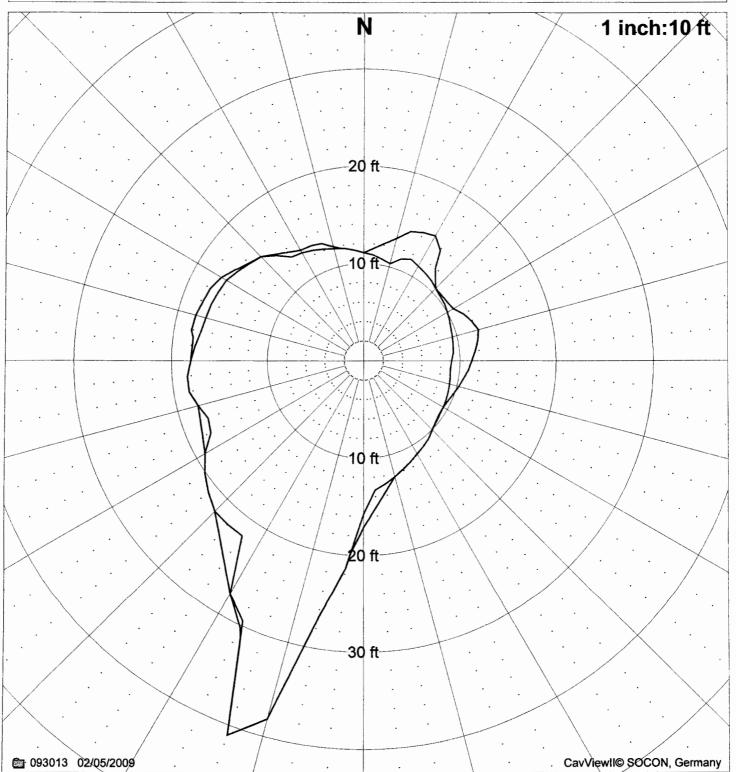
a/b

 $d_{max}$ : 55.1 ft 20° <--> 200°  $r_{min}$ : 9.5 ft -> 120°  $r\sim$ : 16.5 ft  $r_{max}$ : 41.0 ft -> 200° a/b = 2.021 a = 55.6 ft (29°-200°) b = 27.5 ft (108°-295°)

Area from vertical sections: 829 ft², Area from horizontal and vertical sections: 860 ft²



**Brine Well No: 1** 02/05/2009 **MAXPLOT** 



a/b Horizontal/vertical maximum plot Largest single area

 $d_{max}$ : 55.1 ft 20° <--> 200°  $r_{min}$ : 9.5 ft -> 120°  $r\sim$ : 16.5 ft  $r_{max}$ : 41.0 ft -> 200° a/b = 2.021 a = 55.6 ft (29°-200°) b = 27.5 ft (108°-295°)

Largest single area: 800 ft2 in depth: 1882.0 ft, Area from horizontal and vertical sections: 860 ft2



Brine Well N	lo: 1			0930	13				2/5	/2009
Depth: 1871	.0 ft				Radii in	r <del>c</del> 1				
[°]	0.0	٥.	٥.	0.5	0.4	0.4	0.4	0.4	0.3	0.3
0	0.6	0.5	0.5	0.5			0.4	0.4	0.3	0.3
50	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
100	0.3	0.3	0.3	0.3	0.2	0.2		0.2	0.5	0.6
150	0.3	0.3	0.4	0.4	0.4	0.4	0.5		1.0	1.0
200	0.6	0.6	0.7	0.7	0.7	0.8	0.9	0.9		0.9
250	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5
300	0.9	0.9	0.9	0.9	8.0	8.0	8.0	0.7	0.7	0.7
350	0.6	0.6								
Depth: 1872	.0 ft									
[°]					Radii in		0.4	0.4	0.4	0.4
0	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	
50	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
100	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6
200	0.6	0.7	0.7	8.0	8.0	0.9	0.9	0.9	1.0	1.0
250	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	0.9	0.9	0.9	0.9	0.9	8.0	8.0	8.0	0.7	0.7
350	0.7	0.6								
Depth: 1874	.0 ft									
[°]					Radii in		4.0	4.4	4.4	11
0	1.6	1.5	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.1
50	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	0.9
100	8.0	8.0	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7
150	0.7	0.7	8.0	8.0	0.8	0.9	1.0	1.2	1.3	1.2
200	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
250	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
300	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4
350	1.5	1.5								
Depth: 1876	.0 ft									
[°]					Radii in		0.5	0.4	0.4	0.4
0	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.4		0.4
50	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
100	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	
150	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7
200	8.0	8.0	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.2
250	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
300	1.1	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.9	8.0
350	8.0	8.0								



Brine Well I	No: 1	093013							2/5	5/2009
Depth: 1878	3.0 ft									
[°]					Radii in					• •
0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9
50	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
100	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0
150	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3
200	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5
250	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
300	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3
350	1.2	1.2								
Depth: 1880	0.0 ft				D = dif in	[6]				
[°]	4.4	4.0	4.0	4.0	Radii in	լոյ 1.2	1.2	1.1	1.1	1.1
0	1.4	1.3	1.3	1.3	1.2		1.2	1.0	1.0	1.0
50	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.1
100	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.4	1.5	1.5
150	1.1	1.2	1.2	1.2	1.3	1.3 1.8	1.4	1.8	1.8	1.8
200	1.6	1.6	1.7	1.7	1.7		1.6	1.9	1.9	1.9
250	1.8	1.9	1.9	1.9	1.9	1.9	1.6	1.6	1.6	1.5
300 350	1.8 1.5	1.8 1.4	1.8	1.7	1.7	1.7	1.0	1.0	1.0	1.5
350	1.5	1.4								
Depth: 1882	2.0 ft									
[°]					Radii in		44.0	44.0	40.0	10 E
0	11.1	10.9	10.6	10.3	11.1	11.5	11.2	11.0	10.8	10.5
50	10.3	10.2	10.0	9.8	9.6	9.5	9.4	9.3	9.1	9.0 10.7
100	9.1	9.2	9.3	9.4	9.5	9.5	9.7	10.0	10.4	38.2
150	11.0	11.4	11.8	12.3	12.8	13.3	15.7	21.4	26.9	
200	41.0	29.5	27.6	21.9	21.9	21.8	21.0	20.1	19.0	17.5 16.7
250	17.2	17.8	18.4	18.4	18.0	17.6	17.2	17.0	16.9	11.9
300	16.5	16.0	15.5	15.1	14.1	13.0	12.8	12.5	12.2	11.9
350	11.7	11.4								
Depth: 1884	4.0 ft				Radii in	. f <del>f1</del> 1				
[°]	0.0	0.0	10.2	13.0	14.1	14.5	14.8	13.8	11.0	9.7
0	9.8	9.0	9.0	8.8	8.7	8.6	8.6	8.5	8.5	8.4
50	9.5	9.2		8.1	8.1	8.4	8.7	9.0	9.3	9.6
100	8.4	8.3 10.5	8.2	0. i 11.4	11.8	13.5	17.1	20.7	24.9	29.9
150	10.1	10.5	10.9			12.4	13.3	13.5	13.3	13.2
200	28.9	24.9	16.7	11.7	12.0 17.0	12. <del>4</del> 17.6	18.2	18.1	17.8	17.6
250	13.4	13.8	14.2	14.6		13.3	13.1	13.0	12.8	12.1
300	17.1	16.3	15.4	14.7	13.9	13.3	13.1	13.0	12.0	12.1
350	11.3	10.5								



Brine Well	No: 1	093013							2/	5/2009
Depth: 1886	6.0 ft				Dadii in	( <del>4</del> 1				
[°]	0.5	<b>77</b>	7.0	7.0	Radii in		7.1	7.0	6.9	6.9
0	8.5	7.7	7.6	7.6	7.5	7.3	6.2	6.2	6.2	6.1
50	6.8	6.8	6.6	6.5	6.4	6.3		6.3	6.4	6.6
100	6.1	6.0	6.0	6.1	6.1	6.2	6.2	10.4	10.7	11.0
150	6.8	7.0	7.1	7.5	7.8	8.4	9.4	12.4	12.5	12.0
200	11.3	11.3	11.3	11.3	11.5	11.7	12.0	12.4 14.4	14.9	14.7
250	11.5	10.9	11.4	11.8	12.5	13.3	13.9	12.5	14.5	11.2
300	14.4	14.2	14.1	14.1	13.9	13.5	13.1	12.5	11.7	11.2
350	10.5	9.5								
Depth: 188	8.0 ft									
[°]					Radii in	[ft]				
0	5.2	5.3	5.4	5.5	5.7	6.1	6.5	8.5	9.0	9.5
50	9.9	10.2	10.7	11.4	11.9	12.3	12.0	11.6	11.2	10.9
100	10.5	10.2	9.6	9.2	8.8	8.8	9.1	9.6	10.2	10.7
150	10.6	10.5	10.3	9.8	9.4	8.9	8.4	7.8	6.5	5.2
200	5.3	5.5	5.4	5.4	5.3	5.3	5.2	5.1	5.0	4.9
250	4.8	4.7	4.6	4.5	4.5	4.5	4.4	4.4	4.3	4.3
300	4.3	4.3	4.4	4.4	4.3	4.4	4.5	4.6	4.7	4.8
350	5.0	5.1								
Depth: 189	0 0 ft									
[°]	0.0 10				Radii in	[ft]				
٠, ٥	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.7	2.8	2.9
50	3.0	3.2	3.0	2.8	2.7	2.6	2.6	2.6	2.8	3.0
100	3.3	3.5	3.7	4.1	4.5	4.9	5.3	5.6	5.7	7.5
150	7.6	7.8	7.8	7.7	7.6	4.0	2.7	2.5	2.5	2.8
200	3.0	2.9	2.7	2.7	2.6	2.6	2.5	2.4	2.2	2.1
250	2.0	1.9	1.9	1.8	1.7	1.6	1.6	1.6	1.6	1.7
300	1.7	1.9	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.3
350	2.3	2.3								
Depth: 189	2 O ft									
[°]	2.010				Radii ir	ı [ft]				
, 0	1.2	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9
50	2.0	2.1	2.3	2.6	3.6	4.4	4.8	5.3	6.0	6.0
100	6.1	3.2	2.4	2.0	1.8	1.7	1.6	1.6	1.5	1.5
150	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4
200	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.4
250	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
300	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
350	1.3	1.3								
000										



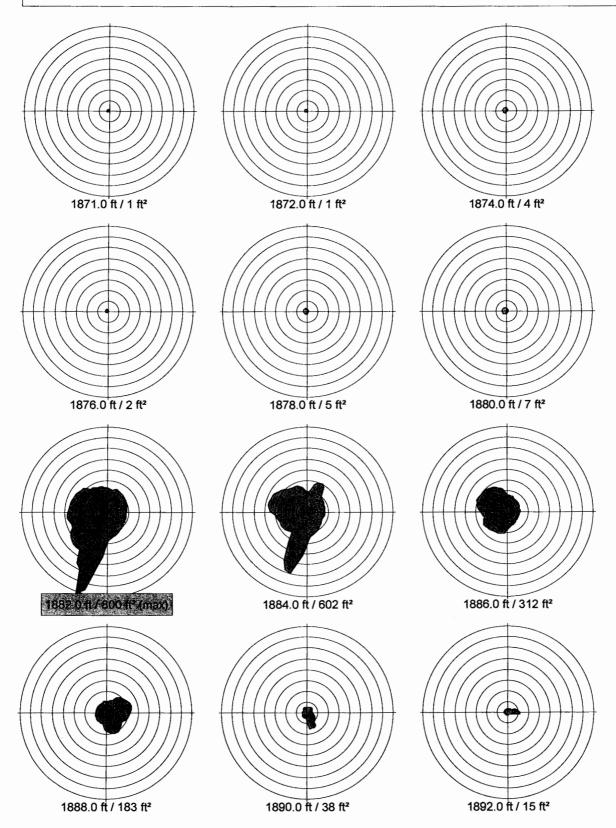
Brine Well N	No: 1			0930	13				2/5	5/2009
Depth: 1894	I.O ft									
[°]					Radii in	• -				
0	0.7	0.7	8.0	0.9	1.0	1.0	1.1	1.2	1.2	1.3
50	1.5	1.6	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.8
100	1.8	1.7	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
150	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.0	0.9	8.0
200	8.0	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4
250	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
300	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
350	0.7	0.7								
Depth: 1896	5.0 ft									
[°]					Radii in		0.7	0.0	0.0	1.0
0	0.4	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.9	1.0
50	1.0	1.1	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4
100	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.0
150	0.9	8.0	8.0	0.7	0.6	0.6	0.5	0.4	0.4	0.3
200	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
250	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
300	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
350	0.4	0.4								
Depth: 1898	3.0 ft				D - 4" t-	P.613				
[°]					Radii in		0.7	2.0	2.4	3.2
0	2.2	2.3	2.3	2.4	2.5	2.6	2.7	2.9	3.1	2.9
50	3.2	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.0 4.1	4.4
100	2.9	2.9	2.9	2.8	3.0	3.2	3.5	3.8	3.2	3.0
150	4.7	5.2	5.9	6.7	8.0	10.0	11.2	3.3 2.0	2.0	2.0
200	2.8	2.6	2.4	2.2	2.1	2.1	2.0	2.0 1.7	2.0 1.7	1.7
250	2.0	1.9	1.9	1.9	1.8	1.8 1.8	1.8 1.9	1.7	2.0	2.0
300	1.7	1.6	1.6	1.7	1.7	1.0	1.9	1.3	2.0	2.0
350	2.1	2.2								
Depth: 1900	).0 ft				Radii in	[ <del>[1</del> ]				
[°] O	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.4	1.4
50	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3
100	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
150	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5
200	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.7
250 250	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6
300	1.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
350	1.5	1.5	1.5	1.0	1.0	1.0	1.0			
330	1.5	1.5								



Brine Well	No: 1			0930	13				2/	5/2009
Depth: 190	2.0 ft									
[°]					Radii in	[ft]				
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
250	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
350	1.0	1.0								
Depth: 190	3.0 ft									
[°]					Radii in	[ft]				
0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
50	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
100	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
150	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
200	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
250	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
300	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
350	0.6	0.6								



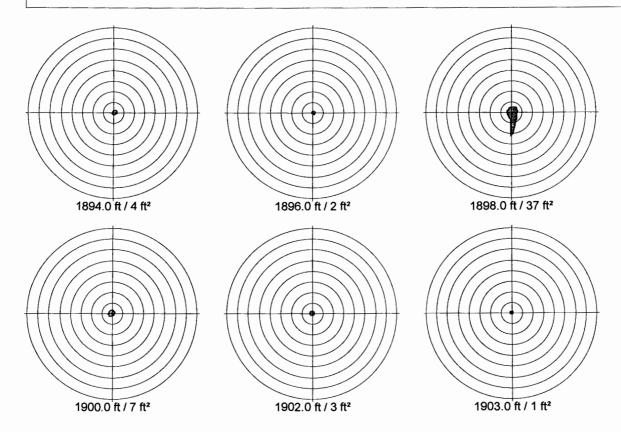
### Horizontal slices 1 - 12





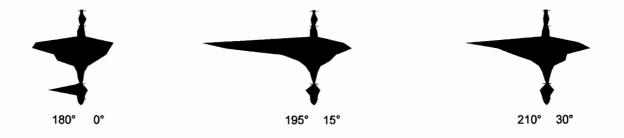
# Sonor Well Services SOCON Sonar Well Services, Inc.

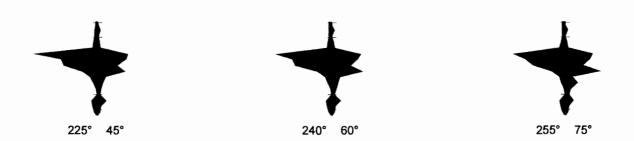
### **Horizontal slices 13 - 18**





# Vertical slices 1 - 6







# Vertical slices 7 - 12













To: Jim Griswald

From: James Millett

RE: Salty Dog 2009 Sales

Below is the annual sales of Salty Dog for 2009

January 2009	10,450
February 2009	590
March 2009	3,489
April 2009	2,345
May 2009	5,950
June 2009	6,975
July 2009	32,080
August 2009	15,321
September 2009	21,840
October 2009 November 2009 Dec-09	23,698 19348 46509
	188,595 Total BBL

Sincerely,

James Millett

### Salty Dog Analysis of Sales 2000-2009

	Brine Water Sales (Barrells)
January 2000 February 2000 March 2000 April 2000 May 2000 June 2000 July 2000 August 2000 September 2000	21,481 20,990 10,396
October 2000 November 2000 December 2000 January 2001 February 2001	55,421
March 2001 April 2001 May 2001 June 2001 July 2001	30,561
August 2001 September 2001 October 2001 November 2001	19,322
December 2001 January 2002 February 2002 March 2002 April 2002	11,268 24,380 32,140 36,416
May 2002 June 2002 July 2002 August 2002 September 2002	28,473 21,305 13,143 15,450 21,820
October 2002 November 2002 December 2002 January 2003 February 2003	4,044 2,468 8,720 7,754 10,330
March 2003 April 2003 May 2003 June 2003 July 2003	10,265 15,925 13,309 18,704 8,815
August 2003 September 2003 October 2003 November 2003	21,049 7,989
December 2003	30,977

January 2004

February 2004

6,588

14,437

### Salty Dog Analysis of Sales 2000-2009

Brine	Water
Sales (	(Barrells)

March 2004	9,286 9,205 36,519 17,138 22,310 12,718 12,419 22,685 19,116 27,230 21,800 11,485 14,584 7,900 12,250 41,705 23,762 19,235	
August 2005 September 2005	19,235 29,455	
October 2005	35,781	
November 2005	39,435	
December 2005	57,318	
January 2006	39,019	
February 2006	37,620	
March 2006	46,716	
April 2006	34,365	
May 2006	50,968	
June 2006	42,883	#REF!
July 2006	40,745	
August 2006	40,285	#REF!
September 2006	42,284	
October 2006	67,762	
November 2006 December 2006	72,777	
	67,305	
January 2007 February 2007	62,858 49,605	
March 2007	38,760	
April 2007	38,865	
May 2007	45,870	
June 2007	50,775	
July 2007	20,735	
August 2007	29,360	
September 2007	30,130	
October 2007	44,975	
November 2007	51,495	
December 2007	50,665	
January 2008	52,009	
February 2008	41,825	
March 2008	30,715	
April 2008	24,833	

### Salty Dog Analysis of Sales 2000-2009

Brine Water
Sales (Barrells)

May 2008	9,410
June 2008	23,355
July 2008	29,729
August 2008	45,165
September 2008	65,038
October 2008	32,587
November 2008	30,967
December 2008	37,075
January 2009	10,450
February 2009	590
March 2009	3,489
April 2009	2,345
May 2009	5,950
June 2009	6,975
July 2009	32,080
August 2009	15,321
September 2009	21,840
October 2009	23,698

2,689,544.00



ANALYTICAL RESULTS FOR SALTY DOG, INC. P.O. BOX 513 HOBBS, NM 88240 FAX TO: (505) 393-1533

Receiving Date: 09/10/99 Reporting Date: 09/10/99

Project Number: NOT GIVEN Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 09/10/99

Sampling Date: 09/10/99

Sample Type: WATER Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: AH

		CI ⁻
LAB NUMBER	SAMPLE ID	(mg/L)

H4323-1	CONT. FW WELL	507
H4323-2	WW TO BRINE W.	1622
H4323-3	SNYDER RANCH OFFICE	53
H4323-4	BRINE PIT	209900
Quality Control		1014
True Value QC		1000
% Recovery		101
Relative Perce	4.7	

METHOD: Standard Methods	4500-CIB

H4323.XLS



ANALYTICAL RESULTS FOR SALTY DOG, INC. P.O. BOX 513 HOBBS, NM 88240 FAX TO: (505) 393-1533

Receiving Date: 09/10/99 Reporting Date: 09/10/99 Project Number: NOT GIVEN

Project Name: NOT GIVEN
Project Location: NOT GIVEN

Analysis Date: 09/10/99 Sampling Date: 09/10/99 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: AH

CIT LAB NUMBER SAMPLE ID (mg/L)

H4323-1	CONT. FW WELL	507
H4323-2	WW TO BRINE W.	1622
H4323-3	SNYDER RANCH OFFICE	53
H4323-4	BRINE PIT	209900
Quality Control		1014
True Value QC	1000	
% Recovery	101	
Relative Perce	4.7	

METHOD: Standard Methods 4500-CIB

Rucey Al Cooki

Date



ANALYTICAL RESULTS FOR SALTY DOG, INC. ATTN: WALTER BRISCO P.O. BOX 513 HOBBS, NM 88241

FAX TO: (505) 393-1533

Receiving Date: 09/27/00 Reporting Date: 09/29/00 Project Number: NOT GIVEN

Project Name: NOT GIVEN
Project Location: NOT GIVEN

Analysis Date: 09/27/00 Sampling Date: 09/27/00

Sample Type: GROUNDWATER
Sample Condition: INTACT
Sample Received By: GP

Analyzed By: AH

LAB NUMBER SAMPLE ID (mg/L)

H5212-1	MONITOR WELL	28608
Quality Control		971
True Value QC	,	1000
% Recovery		97.1
Relative Percent Diffe	erence	0.9

METHOD: Standard Methods 4500-CI'B

Chemist

Date

H5212 XLS





ANALYTICAL RESULTS FOR SALTY DOG, INC. P.O. BOX 513 HOBBS, NM 88241 FAX TO: (505) 393-1533

Receiving Date: 06/26/00

Reporting Date: 06/27/00

Project Number: NOT GIVEN Project Name: NOT GIVEN

Project Location: MONITOR WELL

Analysis Date: 06/26/00 Sampling Date: 06/19/00

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

LAB NUMBER SAMPLE ID CIT (mg/L)

H4970-1	BRINE WELL-MONITOR	40000
	WELL	
	•	
		***************************************
Quality Control		980
True Value QC		1000
% Recovery		98.0
Relative Percent Diff	erence	6.0

METHOD: Standard Methods 4500-CIB

Chemist Chemist

Date



PHONE (915) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2328 - 101 E MARLAND - HOBBS, NM 68240

ANALYTICAL RESULTS FOR

**SALTY DOG** 

ATTN: PIETER BERGSTEIN

P.O. BOX 2724

LUBBOCK, TX 79408

FAX TO: (806) 741-1301

Receiving Date: 05/03/00 Reporting Date: 05/03/00

Project Number: NOT GIVEN
Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 05/03/00

Sampling Date: 05/02/00

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

		CI
LAB NUMBER	SAMPLE ID	(mg/L)
H4845-1	FRESHWATER TANKS	832
H4845-2	CONTAMINATED WW	64
H4845-3	RANCH HEADQUARTERS	58
Quality Control		1000
True Value QC		1000
% Recovery	100	
Relative Percent	0	
ETHOD: Standard	i Methods	4500-CIB

My Hill

05/03/00

PLEASE TO THE Bastling and Demague. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount peld by client for analyses.

Al CLAIMS, Including those for negligence and any other cause whateover shall be deemed wained unless made in writing and received within thiny (30) days after completion of the applicable sarvice. In no went self-Curdinal within thiny (30) days after completion of the applicable sarvice. In no went self-Curdinal Curdinal be label for incidental or consequential demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by creat, as subjectioniss.

"Health of the consequence of or related to the performance of services hereundary to Curdinal, recording to the hold of or highest to the performance of services hereundary to Curdinal, recording to the hold of the above related reasons or otherwise.



ANALYTICAL RESULTS FOR EDDIE W. SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242

FAX TO:

Receiving Date: 04/26/00 Reporting Date: 04/28/00 Project Number: 001

Project Name: SALTY DOG BRINE MW Project Location: HOBBS-WEST

Sampling Date: 04/26/00

Sample Type: GROUNDWATER Sample Condition: COOL AND INTACT

Sample Received By: BC

Analyzed By: AH

### RCRA METALS

LAB NUMBER SAMPLE ID	As	Ag	Ва	Cd	Cr	Pb	Hg	Se
	ppm							
ANALYSIS DATE:	04/27/00	04/27/00	04/27/00	04/27/00	04/27/00	04/27/00	04/28/00	04/27/00
H4831-1 SD #3	<0.1	0.084	2.295	0.215	<0.05	0.065	<0.002	<0.05
Quality Control	0.049	5.004	51.94	1.998	4.977	5.043	0.0039	0.210
True Value QC	0.050	5.000	50.00	2.000	5.000	5.000	0.0040	0.200
% Recovery	98	100	103.9	99.9	99.5	100.8	97.5	105
Relative Percent Difference	2.7	0.6	3.1	0.7	0.4	9.4	2.6	1.4
METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
METHODS: SW-846	7060A	7760A	7080A	7130	7190	7420	7470A	7740

PLEASE 16-84 and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE W. SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242

FAX TO:

Receiving Date: 04/26/00 Reporting Date: 05/02/00 Project Number: 001

Project Name: SALTY DOG BRINE MW

Project Location: HOBBS-WEST

Sampling Date: 04/26/00

Sample Type: GROUNDWATER Sample Condition: COOL AND INTACT

Sample Received By: BC

Analyzed By: AH

	Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mS/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	04/28/00	04/28/00	04/28/00	04/28/00	04/28/00	04/28/00
H4831-1 SD #1 & #2	24374	257	233	164	87216	212
						110
Quality Control	NR	48	53	5.08	1392	NR.
True Value QC	NR	50	50	5.00	1413	NR
% Accuracy	NR NR	96.2	106.9	101.5	98.5	NR
Relative Percent Difference	NR	8.3	9.4	0.4	0.2	NR
METHODS:	SM3	3500-Ca-D	3500-Mg E	8049	120.1	310.1
	CI ⁻	SO ₄	CO3	HCO₃	рН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DATE:	04/28/00	04/28/00	04/28/00	04/28/00	04/28/00	04/29/00
H4831-1 SD #1 & #2	37988	1038	0	259	7.57	59040
Quality Control	1000	400				
True Value QC	1000	102	NR	971	6.95	NR
% Accuracy	1000	100	NR	1000	7.00	NR
	100	102	NR	97.1	99.3	NR
Relative Percent Difference	0.1	0	NR	-	0	NR
METHODS:						

Chemist

Date



ANALYTICAL RESULTS FOR

SALTY DOG, INC.

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 391-9732

Receiving Date: 10/15/01 Reporting Date: 10/16/01

Project Number: NOT GIVEN

Project Name: NOT GIVEN Project Location: NOT GIVEN Analysis Date: 10/15/01

Sampling Date: 10/12/01

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: HM

CI LAB NUMBER SAMPLE ID (mg/L)

H6210-1	MW 1	16095
H6210-2	MW 2	364
H6210-3	REMEDIATON WELL	10297
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percer	nt Difference	1.0

METHOD: Standard Methods 4500-ClB



### PHONE (915) 678-7001 . 2111 BEECHWOOD . ABILENE, TX 79803

PHONE (506) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR** SALTY DOG ATTN: TERRY WALLACE P.O. BOX 513

HOBBS, NM 88241 FAX TO: (505) 393-1533

Receiving Date: 05/24/01 Reporting Date: 05/25/01 Project Number: NOT GIVEN Project Name: NOT GIVEN Project Location: NOT GIVEN

Analysis Date: 05/24/01 Sampling Date: 05/23/01 Sample Type: GROUNDWATER Sample Condition: INTACT Sample Received By: AH

Analyzed By: AH

		a
LAB NUMBER	SAMPLE ID	(mg/L)
H5886-1	BRANCH OFFICE	43
H5886-2	REMEDIATION WELL	15500
H5886-3	MW 1	21400
H5886-4	MW 2	342
Quality Control		1068
True Value QC		1000
% Recovery		107
Relative Percent Difference		9.1
		7
ETHOD: Standard	Methods	4500-CIB

incest flathe

H5886.XLS

PLEASE NOTE: Limitily and Danusgae. Cardinate liquid and As claims, including these for regiligates and any other clause who service. In no event shall Cardinal be liable for incidental or contents or successors arising our of or relisted to the performance



ANALYTICAL RESULTS FOR SALTY DOG, INC. P.O. BOX 513 HOBBS, NM 88241 FAX TO: (505) 393-1533

Receiving Date: 01/23/01 Reporting Date: 01/24/01

Project Number: NOT GIVEN Project Name: SALTY DOG

Project Location: NOT GIVEN

Analysis Date: 01/23/01 Sampling Date: 01/22/01

Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

LAB NUMBER SAMPLE ID CIT (mg/L)

H5536-1	MW SAMPLE	23808
	Kerovery wall	
Quality Control		1025
True Value QC		1000
% Recovery		103
Relative Percent	Difference	3.0

METHOD: Standard Methods 4500-CIB

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Date

LEASENOTE: Clability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable. Solve, and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE W. SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 02/26/01 Reporting Date: 02/27/01

Project Owner: P. BERNSTEIN (ZIA SALTY DOG)

Project Name: SALTY DOG BRINE Project Location: WEST HOBBS

Sampling Date: SEE BELOW
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

		Conductivity	CI
LAB NUMBER	SAMPLE ID	(uS/cm)	(mg/L)

ANALYSIS DATE:		02/27/01	02/27/01	
H5653-1	MW #1 (02/19/01)	66430	29000	
H5653-2	MW #2 (02/23/01)	1455	408	
H5653-3 T-#1 (02/20/01)		37807	15100	
Quality Conti	rol	1489	992	
True Value C	C .	1413	1000	
% Recovery		105	99.2	
Relative Percent Difference		0.3	3.9	

METHODS: EPA 600/4-79-02 120.1 325.3

Sayle Al Stu

02/27/2001



ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513 HOBBS, NM 88241 FAX TO: (505) 391-9732

Receiving Date: 07/08/02 Reporting Date: 07/09/02

Project Number: NOT GIVEN Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 07/09/02 Sampling Date: 07/08/02

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

		CI
LAB NUMBER	SAMPLE ID	(mg/L)

		<del></del>
H6864-1	MONITOR WELL 1	12596
H6864-2	MONITOR WELL 2	490
H6864-3	REMEDIATION WELL	8997
H6864-4	WW BY PIT FRONT	580
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent	Difference	4.0

METHOD: Standard Methods 4500-Cl'B

Data



ANALYTICAL RESULTS FOR SALTY DOG

ATTN: TONY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 391-9732

Receiving Date: 06/20/02 Reporting Date: 06/21/02

Project Number: NOT GIVEN Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 06/21/02 Sampling Date: 06/19/02

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

LAB NUMBER	SAMPLE ID	(mg/L)		
H6824-1	MONITOR WELL #1	20993		
H6824-2	MONITOR WELL #2	396		
H6824-3	REMEDIATION WELL	30990		
Ovolity Control		1020		
Quality Control	1020			
True Value QC		1000		
% Recovery		102.0		
Relative Percent I	Difference	4.0		

METHOD: Standard Methods 4500-CIB

Chemist /

Date



ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 08/20/04 Reporting Date: 08/23/04 Project Number: P. BERSTEIN Project Name: ZIA SALTY DOG Project Location: W. HOBBS, NM Sampling Date: 08/20/04
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH

Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DA	TE:	08/23/04	08/23/04	08/23/04	08/23/04	08/23/04	08/23/04
H9047-1	PMW #1	3376	479	101	12.2	19146	155
H9047-2	ZMW #4	4162	233	44	58.0	18636	101
H9047-3	ZMW #5	207	83	13	3.87	1727	176
H9047-4	SQUIRES OFFICE WELL	21	57	13	2.24	599	147
Quality Control		NR	40	52	4.87	1322	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	80	104	97.4	93.6	NR
Relative Percer	nt Difference	NR	2.0	6.0	5.8	0.7	NR
METHODS:			3500-Ca-D		8049	120.1	310.1
		CI.	SO ₄	CO3	HCO ₃	рН	TDS
	•	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DAT	E:	08/23/04	08/23/04	08/23/04	08/23/04	08/23/04	08/24/04
H9047-1	PMW #1	6198	79	0	190	6.94	10444
H9047-2	ZMW #4	6598	473	0	123	7.24	11716
H9047-3	ZMW #5	324	80	0	215	7.64	957
H9047-4	SQUIRES OFFICE WELL	48	30	0	179	8.00	354
Quality Control		1040	50.67	NR	976	7.05	NR
True Value QC		1000	50.00	NR	1000	7.00	NR
% Recovery		104	101	NR	97.6	101	NR
Relative Percen	t Difference	4.0	4.9	NR	2.2	0.1	1.4
METHODS:		SM4500-CI-B	375.4	310.1	310.1	150.1	160.1
	11 00				-/1 /		

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable serviced of Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



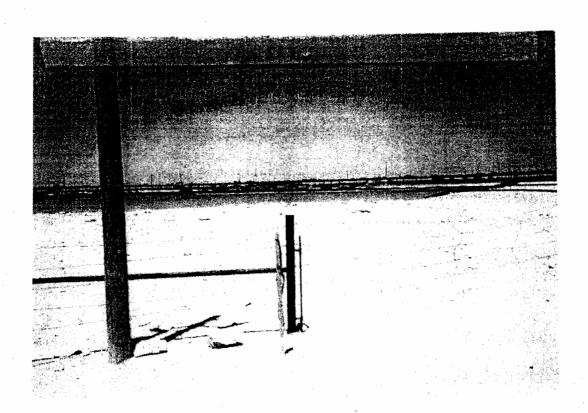
# SALTY DOG WATER STATION

In Case Of Emergency Or Information

(505)393-8352



#





ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 08/20/04 Reporting Date: 08/24/04

Project Owner: P. BERNSTEIN
Project Name: ZIA SALTY DOG

Project Location: W. HOBBS, NM

Analysis Date: 08/21/04

Sampling Date: 08/20/04 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

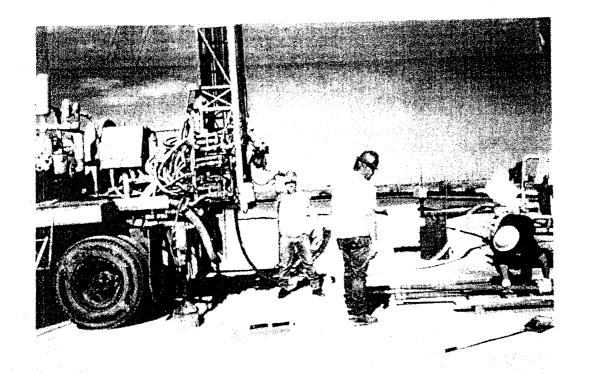
Analyzed By: GP

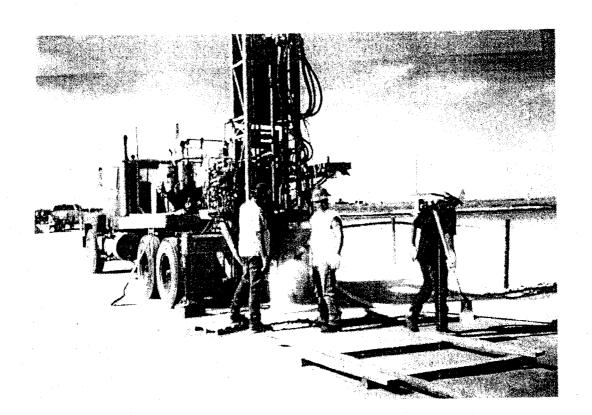
CIT LAB NUMBER SAMPLE ID (mg/Kg)

H9048-1	LSB #1 5'	15995
H9048-2	LSB #1 10'	16795
H9048-3	LSB #1 15'	8397
H9048-4	LSB #1 20'	8397
H9048-5	LSB #2 5'	80
H9048-6	LSB #2 10'	160
H9048-7	LSB #2 15'	272
H9048-8	LSB #2 20'	128
H9048-9	LSB #3 5'	192
H9048-10	LSB #3 10'	2199
H9048-11	LSB #3 15'	384
H9048-12	LSB #3 20'	336
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percer	nt Difference	6.8

METHOD: Standard Methods	4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.





## ARDINAL LABORATORIES, INC

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDI	INAL LABORAT(	ORIES	S,	INC.																			
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	(915) 673-7001 Fax				_	193. I	2326	3 Fax	c (505) 39	3-2476 					NAY	Vere	DE	OTTE	27				
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ANALYTICAL RESULTS FOR **EDDIE SEAY CONSULTING** ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242

FAX TO:

Receiving Date: 08/20/04 Reporting Date: 08/23/04 Project Number: P. BERSTEIN Project Name: ZIA SALTY DOG Project Location: W. HOBBS, NM

Sampling Date: 08/20/04 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AH Analyzed By: AH

	Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u S/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	08/23/04	08/23/04	08/23/04	08/23/04	08/23/04	08/23/04
H9047-1 PMW #1	3376	479	101	12.2	19146	155
H9047-2 ZMW #4	4162	233	44	58.0	18636	101
H9047-3 ZMW #5	207	83	13	3.87	1727	176
H9047-4 SQUIRES OFFICE WELL	_ 21	57	13	2.24	599	147
Quality Control	NR	40	52	4.87	1322	NR
True Value QC	NR	50	50	5.00	1413	NR
% Recovery	NR	80	104	97.4	93.6	NR
Relative Percent Difference	NR	2.0	6.0	5.8	0.7	NR.
METHODS:	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
	Cl.	SO ₄	CO ₃	НСО₃	ρН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DATE:	08/23/04	08/23/04	08/23/04	08/23/04	08/23/04	08/24/04
H9047-1 PMW #1	6198	79	0	190	6.94	10444
H9047-2 ZMW #4	6598	473	0	123	7.24	11716
H9047-3 ZMW #5	324	80	0	215	7.64	957
H9047-4 SQUIRES OFFICE WELL	. 48	30	0	179	8.00	354
Quality Control	1040	50.67	NR	976	7.05	NR
True Value QC	1000	50.00	NR	1000	7.00	NR
% Recovery	104	101	NR	97.6	101	NR
Relative Percent Difference	4.0	4.9	NR	2.2	0.1	1,4

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after complation of the applicable servicial out is event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

ARDINAL LABORATORIES, INC

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

211	L LABORATO 1 Beechwood, Abile (915) 673-7001 Fax (9	ne, TX	790	603					Hobbs, N (505) 39										Paç	je	_ of		
Company Name: Edd		Sull		020	(303)	֓֟֓֟֟ <u>֟</u>	~~~	J rax	. (303) 38	-2710				A	NAL	YSIS	REC	QUES	T				
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hone #: 392 - 23					-	Ad	dre	1			1												
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Project #: Z1a.	Project Owner	P	Ro	ANIE	011		ate:	/	ZIp:		7			-				]				1	1
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sarvide. In no event shall Cardinal be to	negigenoe and imy other cause whated also for incidental or consequental dama	iges, Includ	ing with	YOUR BURNEY	on, busine	es intern	ptons,	loss of us	e, or loss of profit	s incurred by ofter	u, its subski	lanes,	ekde:						% per anno ing sitomey		offginal da	ate of invoic	e.
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† Cardinal nnot	accept verbal changes	. Pleas	se fa	x writt	en ch	anges	to	915-67	3-7020.														

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Location: <	9916 TIGS R.	745				<del></del>		Drilling Log									
All forth	32 41' 14" N 3" 22 17" W	ELU. 38	15 ASL	Well/Bore / Depth of W	U-5	Date Drilled:	21-04	Driller:		Logged By:	وي						
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ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 08/20/04 Reporting Date: 08/23/04 Project Number: P. BERSTEIN Project Name: ZIA SALTY DOG Project Location: W. HOBBS, NM Sampling Date: 08/20/04 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: AH

Analyzed By: AH

			•	14-	<b>V</b>	Canductivity	T-Alkalinity
		Na	Ca	Mg	K	Conductivity	•
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(uS/cm)	(mgCaCO ₃ /L)
ANALYSIS DA	TE:	08/23/04	08/23/04	08/23/04	08/23/04	08/23/04	08/23/04
H9047-1	PMW #1	3376	479	101	12.2	19146	155
H9047-2	ZMW #4	4162	233	44	58.0	18636	101
H9047-3	ZMW #5	207	83	13	3.87	1727	176
H9047-4	SQUIRES OFFICE WELL	21	57	13	2.24	599	147
Quality Control		NR	40	52	4.87	1322	NF
True Value QC		NR	50	50	5.00	1413	NF
% Recovery		NR	80	104	97.4	93.6	NE
Relative Perce	nt Difference	NR	2.0	6.0	5.8	0.7	NE
METHODS:		SM3	3500-Ca-D	3500-Mg E	8049	120.1	310.1
		Cľ	SO₄	CO ₃	HCO₃	Нq	TDS
			•	-	-		
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L
ANALYSIS DA	TE:	08/23/04	08/23/04	08/23/04	08/23/04	08/23/04	08/24/0
H9047-1	PMW #1	6198	79	0	190	6.94	1044
H9047-2	ZMW #4	6598	473	0	123	7.24	1171
H9047-3	ZMW #5	324	80	0	215	7.64	95
100.47.4	SQUIRES OFFICE WELL	. 48	30	0	179	8.00	35
H9047-4	TETRICE CITION TIMEL	,					
	January Strate	1040	50.67	NR	976	7.05	NF
Quality Control			50.67 50.00	NR NR	976 1000	7.05 7.00	
Quality Control True Value QC		1040					NF
Quality Control True Value QC % Recovery		1040 1000	50.00	NR	1000	7.00	NF NF
H9047-4 Quality Control True Value QC % Recovery Relative Percer METHODS:	nt Difference	1040 1000 104	50.00 101	NR NR	1000 97.6	7.00 101	NF NF 1.4

Company C	TY DOD INC	-		·	Drilling Log	
Location: 6	5EC 5 T195 R3 2° 41 13"N 3° 22 20"W 1		Well/Bore Number:	Date Drilled: Driller: ALL	/ I Logged By: / /	
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pore Diame	ter; 3/4   Ca	ising Diameter:	Screen Diameter:	Slot Size:	Well Material: SCH 40 PUC	,
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ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242

FAX TO:

Receiving Date: 08/20/04 Reporting Date: 08/23/04 Project Number: P. BERSTEIN Project Name: ZIA SALTY DOG Project Location: W. HOBBS, NM Sampling Date: 08/20/04 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: AH

Analyzed By: AH

Na	Ca	Mg	. K	Conductivity	T-Alkalinity
(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u S/cm)	(mgCaCO ₃ /L)
08/23/04	08/23/04	08/23/04	08/23/04	08/23/04	08/23/04
3376	479	101	12.2	19146	155
4162	233	44	58.0	18636	101
207	83	13	3.87	1727	176
21	57	13	2.24	599	147
NR	40	52	4.87	1322	NR
NR	50	50	5.00	1413	NR
NR	80	104	97.4	93.6	NR
NR	2.0	6.0	5.8	0.7	NR
SM3	500-Ca-D	3500-Mg E	8049	120.1	310.1
Cl	SO ₄	CO ₃	HCO ₃	рН	TDS
(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
08/23/04	08/23/04	08/23/04	08/23/04	08/23/04	08/24/04
6198	79	0	190	6.94	10444
6598	473	0	123	7.24	11716
324	80	0	215	7.64	957
48	30	0	179	8.00	354
1040	50.67	NR	976	7.05	NR
1000	50.00	NR	1000	7.00	NR
104	101	NR	97.6	101	NR
4.0	4.9	NR	2.2	0.1	1.4
/4500-CI-B	375.4	310.1	310.1	150.1	160.1
	08/23/04 3376 4162 207 21 NR NR NR NR SM3 CI (mg/L) 08/23/04 6198 6598 324 48 1040 1000 104 4.0	08/23/04 08/23/04 3376 479 4162 233 207 83 21 57 NR 40 NR 50 NR 80 NR 2.0  SM3500-Ca-D  CI SO ₄ (mg/L) (mg/L)  08/23/04 08/23/04 6198 79 6598 473 324 80 48 30 1040 50.67 1000 50.00 104 101 4.0 4.9	08/23/04 08/23/04 08/23/04 3376 479 101 4162 233 44 207 83 13 21 57 13 NR 40 52 NR 50 50 NR 80 104 NR 2.0 6.0  SM3500-Ca-D 3500-Mg E  CI SO4 CO3 (mg/L) (mg/L) (mg/L)  08/23/04 08/23/04 08/23/04 6198 79 0 6598 473 0 324 80 0 48 30 0 1040 50.67 NR 1000 50.00 NR 104 101 NR 4.0 4.9 NR	08/23/04         08/23/04         08/23/04         08/23/04         08/23/04           3376         479         101         12.2           4162         233         44         58.0           207         83         13         3.87           21         57         13         2.24           NR         40         52         4.87           NR         50         50         5.00           NR         80         104         97.4           NR         2.0         6.0         5.8           SM3500-Ca-D 3500-Mg E         8049           CI'         SO ₄ CO ₃ HCO ₃ (mg/L)         (mg/L)         (mg/L)         (mg/L)           08/23/04         08/23/04         08/23/04         08/23/04           6598         473         0         123           324         80         0         215           48         30         0         179           1040         50.67         NR         976           1000         50.00         NR         1000           104         101         NR         97.6	08/23/04 08/23/04 08/23/04 08/23/04 08/23/04 3376 479 101 12.2 19146 4162 233 444 58.0 18636 207 83 13 3.87 1727 21 57 13 2.24 599 NR 40 52 4.87 1322 NR 50 50 5.00 1413 NR 80 104 97.4 93.6 NR 2.0 6.0 5.8 0.7 SM3500-Ca-D 3500-Mg E 8049 120.1 CI SO4 CO3 HCO3 PH (mg/L) (mg/L) (mg/L) (mg/L) (s.u.) 08/23/04 08/23/04 08/23/04 08/23/04 08/23/04 6198 79 0 190 6.94 6598 473 0 123 7.24 324 80 0 215 7.64 48 30 0 179 8.00 1040 50.67 NR 976 7.05 1000 50.00 NR 10000 7.00 104 101 NR 97.6 101 4.0 4.9 NR 2.2 0.1

Chemist



ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242

FAX TO: (505) 392-6949

Receiving Date: 08/12/04

Reporting Date: 08/13/04

Project Owner: P. BERSTEIN

Project Name: ZIA SALTY DOG

Project Location: 12 Ml. W. OF HOBBS, NM

Analysis Date: 08/13/04

Sampling Date: 08/11-08/12/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: AH

CIT LAB NUMBER SAMPLE ID (mg/Kg)

H9003-1	PMW #1 0-5'	4639
H9003-2	PMW #1 5-10'	5998
H9003-3	PMW #1 10-15'	1919
H9003-4	PMW #1 15-20'	736
H9003-5	PMW #1 20-25'	1408
H9003-6	PMW #1 25-30'	800
H9003-7	PMW #1 30-35'	1104
H9003-8	PMW #1 35-40'	1168
H9003-9	PMW #1 40-45'	2399
H9003-10	PMW #1 45-50'	192
H9003-11	PMW #1 50-55'	128
H9003-12	PMW #1 55-60'	192
	·	
Quality Control		1040
True Value QC		1000
% Recovery		104
Relative Percen	t Difference	4.0

METHOD: Standard Methods	4500-CIB
WETTIOD. Standard Metrious	 4000-010

Note: Analyses performed on 1:4 w:v aqueous extracts.

Date

Chemist

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable services Services Services shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, artiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

### ARDINAL LABORATORIES, INC

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Sampler Relinquish		Date:		2		ved l							Phone Res	sult 🗅	Yes			ional F	ax#:		<del></del>					
SOD' 1.	ı A.	Time:	1.15										Fax Resul		Yes	□ No	)									
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† Cardi	not accept vei	rbal changes.	Plea	se	fax wr	ltten o	han	ges	to 9	15-6	73-	7020.				-										

SALTY DOG INC.  Location 526, 5, T195 R362			Drilling Log
675 32" 41' 43"N 103° 22' 17"W 2LV 3801 ASL	Well/Bore Number:	Date Drilled: Drilled A	LLEN Hoogs Logged By: LLEN Hoods E
Method: DOTARY Depth of Boring: 85' 865	10 at 100 to	Length of Casing: 63	Length of Screen:
Ecre Diameter: 4 3/4 Casing Diameter: 2"ScH 40	Screen Diameter: 2"Sc H40	Slot Size: -010	Well Material: SCH 40 PUC
Depth	Sala Sample Type 14 1 16		marks the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of
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BROWN TOP SOIL		2011-125	
5 White to PINK CALICHE		BENTONITE	
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- 25 RED TO BROWN QUARTEITE (HARD)			
TAN SAND			
35			35
BROWN SANDSTONE			
RED TO TAN SAND WITH BROWN SANDSTONE			
STRINGERS			45
50			
RED BAND	-	BENTONITE	- PLUS
55			55_
60	1		
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TOP OF WATER  RED WATER SAND	_		
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ANALYTICAL RESULTS FOR **EDDIE SEAY CONSULTING** 

ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO: (505) 392-6949

Receiving Date: 08/12/04

Reporting Date: 08/13/04

Project Owner: P. BERSTEIN Project Name: ZIA SALTY DOG

Project Location: 12 MI. W. OF HOBBS, NM

Analysis Date: 08/13/04

Sampling Date: 08/11-08/12/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: AH

CI LAB NUMBER SAMPLE ID (mg/Kg)

H9003-1	PMW #1 0-5'	4639
H9003-2	PMW #1 5-10'	5998
H9003-3	PMW #1 10-15'	1919
H9003-4	PMW #1 15-20'	736
H9003-5	PMW #1 20-25'	1408
H9003-6	PMW #1 25-30'	800
H9003-7	PMW #1 30-35'	1104
H9003-8	PMW #1 35-40'	1168
H9003-9	PMW #1 40-45'	2399
H9003-10	PMW #1 45-50'	192
H9003-11	PMW #1 50-55'	128
H9003-12	PMW #1 55-60'	192
Quality Control		1040
True Value QC	,	1000
% Recovery		104
Relative Percer	nt Difference	4.0

_			<del></del>
N	IETHOD: :	Standard Methods	4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.





ANALYTICAL RESULTS FOR SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 05/25/043 Reporting Date: 05/25/04

Project Number: NOT GIVEN
Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 05/25/04

Sampling Date: 05/25/04

Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

LAB NUMBER SAMPLE ID CIT (mg/L)

H8730-1 MONITOR WELL #1 1320

110730-1	WONTOR WELL#1	1320
Quality Control		990
True Value QC		1000
% Recovery		99.0
Relative Percent Diff	erence	4.0

METHOD: Standard Methods 4500-CIB

my Lill
Chemist

5/25/04 Date



ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 05/25/043

Reporting Date: 05/25/04 Project Number: NOT GIVEN

Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 05/25/04

Sampling Date: 05/25/04

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

LAB NUMBER SAMPLE ID CI (mg/L)

H8730-6	FRONT WW BY PIT	720
-		
Overlike On wheel		000
Quality Control		990
True Value QC		1000
% Recovery		99.0
Relative Percent Dif	ference	4.0

METHOD: Standard Methods 4500-CIB

Chemist



ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 05/25/043

Reporting Date: 05/25/04

Project Number: NOT GIVEN

Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 05/25/04

Sampling Date: 05/25/04

Sample Type: GROUNDWATER

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

CI LAB NUMBER SAMPLE ID (mg/L)

H8730-5	REMEDIATION WELL #2	11097
Quality Control		990
True Value QC		1000
% Recovery		99.0
Relative Percent D	Difference	4.0

METHOD: Standard Methods 4500-Cl⁻B



ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 05/25/043

Reporting Date: 05/25/04

Project Number: NOT GIVEN Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 05/25/04

Sampling Date: 05/25/04

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

LAB NUMBER SAMPLE ID (mg/L)

H8730-2	MONITOR WELL #2	332
Quality Control		990
True Value QC		1000
% Recovery		99.0
Relative Percent	Difference	4.0

METHOD: Standard Methods 4500-CI'B

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5|25|04



ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 05/25/043

Reporting Date: 05/25/04

Project Number: NOT GIVEN Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 05/25/04

Sampling Date: 05/25/04

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

4500-Cl⁻B

LAB NUMBER	SAMPLE ID	CI [—] (mg/L)
H8730-3	MONITOR WELL #3	380
Quality Control		990
True Value QC		1000
% Recovery		99.0
Relative Percent I	Difference	4.0

METHOD: Standard Methods

**C**hemist

5 25/04 Date



ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 05/25/043

Reporting Date: 05/25/04

Project Number: NOT GIVEN

Project Name: NOT GIVEN Project Location: NOT GIVEN

Analysis Date: 05/25/04

Sampling Date: 05/25/04

Sample Type: GROUNDWATER

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

LAB NUMBER SAMPLE ID (mg/L)

H8730-4	REMEDIATION WELL #1	440
Quality Control		990
True Value QC		1000
% Recovery		99.0
Relative Percent D	ifference	4.0

METHOD: Standard Methods 4500-Cl'B

Chemist

5 25 04 Date



ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 01/28/04

Reporting Date: 01/28/04

Project Number: NOT GIVEN

Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 01/28/04

Sampling Date: 01/28/04

Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: AH

LAB NUMBER SAMPLE ID (mg/L)

H8414-2	REMEDIATED WELL #1	432
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent D	Pifference	1.0

METHOD: Standard Methods 4500-CI'B

Chemist (



ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 01/28/04

Reporting Date: 01/28/04

Project Number: NOT GIVEN

Project Name: NOT GIVEN Project Location: NOT GIVEN Analysis Date: 01/28/04

Sampling Date: 01/28/04

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: AH

LAB NUMBER

SAMPLE ID

CI (mg/L)

H8414-3	REMEDIATED WELL #2	8997
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent Diffe	erence	1.0

METHOD: Standard Methods 4500-Cl⁻B





ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 01/28/04

Reporting Date: 01/28/04

Project Number: NOT GIVEN Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 01/28/04

Sampling Date: 01/28/04

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: AH

LAB NUMBER	SAMPLE ID	CI  (mg/L)
H8414-4	MW #1	4799
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent I	Difference	1.0

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METHOD: Standard Methods

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4500-CIB



ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 01/28/04

Reporting Date: 01/28/04

Project Number: NOT GIVEN Project Name: NOT GIVEN

Project Location: NOT GIVEN

True Value QC

Relative Percent Difference

% Recovery

Analysis Date: 01/28/04

Sampling Date: 01/28/04

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: AH

1000

100

1.0

LAB NUMBER	SAMPLE ID	CI (mg/L)
H8414-5	MW #2	352
Quality Control		1000

METHOD: Standard Methods 4500-Cl'B

Chemist H



ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 01/28/04

Reporting Date: 01/28/04

Project Number: NOT GIVEN

Project Name: NOT GIVEN
Project Location: NOT GIVEN

Analysis Date: 01/28/04

Sampling Date: 01/28/04

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl¯ (mg/L)
H8414-6	MW #3	360
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent	Difference	1.0

METHOD: Standard Methods

Date

4500-CIB

Chemist



ANALYTICAL RESULTS FOR

SALTY DOG

ATTN: TERRY WALLACE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 01/28/04 Reporting Date: 01/28/04

Project Number: NOT GIVEN Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 01/28/04 Sampling Date: 01/28/04

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: GP

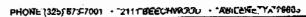
Analyzed By: AH

LAB NUMBER SAMPLE ID CI (mg/L)

H8414-1	MAIN WATER WELL	856
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent Dif	ference	1.0

METHOD: Standard Methods	4500-Cl [*] B

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ANALYTICAL RESULTS FOR ZIA TRANSPORT ATTN: TOM BROOM P.O. BOX 513 HOBBS, NM 88241 FAX TO: (505) 393-8353

Receiving Date: 03/07/06 Reporting Date: 03/08/06 Project Owner: NOT GIVEN Project Name: SALTY DOG Project Location: HOBBS, NM Analysis Date: 03/08/06 Sampling Date: 03/07/06

Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: HM

CI LAB NUMBER SAMPLE ID (mg/L) 13996 H10860-1 MW 1 **Quality Control** 510 True Value QC 500 % Recovery 102 Relative Percent Difference 2.0 METHOD: Standard Methods 4500-CFB

Cherdist S. Mano

03-08-06

#### ARDINAL LABORATORIES

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	SALTY DOC	SALTY DOC INC JIM SAYRE								BILL TO ANALYSIS REQUEST																
Project Manager	: Jim SAYRE							P	.0. #.	_				Π		1	T									
Address: F	0 Bex 513							С	ompa	iny:	54	HTY ,	700	1						1						
City: Hobbs	-8352	State: NM	Zip:	٤	382	240	>	Α	ttn:	CP	by	OLTY ,	ACI	1			1	1	1	}						
Phone #: 393	-8352	Fax #:			-			A	ddre	ss: /	00	Box	5/3	1												
Project #:		Project Owner						City: 40663											1							
Project Name:		7						State: NM Zip: 88240										į								
Project Location								Phone #: 393 - 8352																		
	JIM SAYRI	· · · · · · · · · · · · · · · · · · ·										3-83		1												
FOR LAB USE ONLY						MAT	RIX			ESEF		SAMPLI		1												
Lab I.D.	Sample I.I		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / CODI	OTHER:	DATE	TIME	21.0	3											
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8	Monitor Well	#6		$\vdash$	7	-		+	+	-		10-26	9:36	1-	+				-				-			
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PLEASE NOTE: Liability a	nd Damages. Cardinal's liability and clien	i's exclusive remedy for a	ny claim	ansing	whethe	r based	in contr	act or	lort, sha	l be lin	nited to	o the amount pa	d by the client i	for the				L.,	<b></b>	<u> </u>			<u> </u>			
service in no event shall (	ing those for negligance and any other ca Cardinat be liable for incidental or consequ	antal damages, including	without	t limitati	an, busi	ness inte	emuptio	ns, ios	s of use,	or loss	of pro	ofits incurred by	cijant, its subsid	iiaries,	aldeaik											
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Sampler UPS	- Bus - Other:			1	[	Yes		Yes	Ì	SI	3	•														
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

Company Name:	(505) 393-2326 FAX (5 SALTY DOC-		0 (	320	10/3	-100		~1	320		LL T	ō							NAL	YSIS	RE	QUE	ST	.,	**********	
Project Manager	51m 541RE	1/00						P.0	. #			<del></del>				T			T							
C	O R . TIT						_	_	-		60/52	, ,	,					l								1
	0 Bex 513	tate: Nm 2	<b></b>		7622	44		Company: SALSY Dog Attn: Teeky WALLACE							ł			1								
City: 46163			Lip:		702	70												İ	ļ							
Phone #: 393								Address: \$0 Box 5/3 City: Nobles											1		1					
Project #:	Pro	oject Owner:						Cib	<u>c y</u>	1066	-						- 1									
Project Name:										Zip:						1	1				1	{				
Project Location								+			93-								}		1			İ		i 1
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			G)RAB OR (C)OMP	တ္သ	GROUNDWATER												}						1			
Lab I.D.	Sample I.D.		<u>چ</u>		A E	1			اید	اي	1	}		)	1						1					
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H 12887-1	Pit MONITOR W	el/	Ť	*	112		<del>-   "</del>	1		-	10-2		9'30	X												
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3	MONITOR Well				7			T			10-3		9/30		T											
4	MONIFOR Well -	#2			7						10-		7:30	П	$\perp$											
	MONSTOR WELL	#3			1	$\sqcup$	_	_			10-		9:30	Н	_ _	_										<b></b>
4	Monitor Well	#4		_	7	11		1	Ш		10-2		9:30	#	4	_					-				<u> </u>	1
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8	Moditor Well +	46			71	1-4	$\perp$	4		-	10-	26	9:36	1-	+					ļ	-			ļ	<del> </del>	<u>  </u>
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PLEASE NOTE: LAME	nd Gernages. Caronnel's kabitay and client's e	and raine recognity for an	, ch			hered	carlo	ol or in	1		dia tra sa	יייים מולי	buthe classic	<u></u>	ــــــــــــــــــــــــــــــــــــــ			<u> </u>		<u></u>					1	
かいいうりょう ういくいるかい からいん	ng wees for negligence and any other course around on retus for injoids mill or consequent	whatepever shall be o	ie e cne	d water	d unless.	made in	witing s	nd reco	about h	Cardon	ı within 10 o	duye sile	completon of	the appli	licebie											
Relinquished B	es la samphipe era at bettes >> Ic lea gn	odous hareunder by C 1810:	and nat	L / <b>00</b> 001	ed B	helter p		n in ba	and up	es period	the above	subod re	Phone R	ist.		Yes		No	4336	Phon	- 4-					
10	0	10+26	; 1/6	COIL	<b>QU</b> 127	,							Fax Resi	elt:		Yes		No		Fax #						
118/	Source !	8-45											REMARK	(S:												
Relinquished B	A: \	ate:	Re	ceh	ed B	y:																				
1		ime:	S	u	Bai	ne	عور	دار	6 st	7	10:45	-														
Delivered By	: (Circle One)				88	siqm	- ona	WI OU	1	CHE	KED B	Y:	Ì													
Sampler UPS	- Bus - Other:				6	TYES	4	85	1	جري	y was															
					بلــــــــا	No		10		2			1													

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478



ANALYTICAL RESULTS FOR SALTY DOG INC. ATTN: JIM SAYRE P.O. BOX 513 HOBBS, NM 88241 FAX TO: (575) 393-8353

Receiving Date: 10/26/07 Reporting Date: 10/26/07

Project Owner: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Analysis Date: 10/26/07 Sampling Date: 10/26/07

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: \$B

Analyzed By: AB

		Cl
LAB NUMBER	SAMPLE ID	(mg/L)
H13587-1	PIT MONITOR WELL	9,897
H13587-2	FRESH WATER WELL	730
H13587-3	MONITOR WELL #1	104
H13587-4	MONITOR WELL #2	108
H13587-5	MONITOR WELL #3	356
H13587-6	MONITOR WELL #4	1,100
H13587-7	MONITOR WELL#6	100
H13587-8	MONITOR WELL #6	28
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent	Difference	< 0.1

METHOD: Standard Methods 4500-CIB

Briste Suprebio



PHONE (325) 673-7001 - 2111 BEECHWOOD - ABILENE, TX 79603

PHONE (505) 393-2326 - 101 E. MARLAND - HOBBS, NM 88240

ANALYTICAL RESULTS FOR

SALTY DOG INC.

NM - 760

ATTN: JIM SAYRE

P.O. BOX 513

HOBBS, NM 88241

FAX TO: (575) 393-8353

Receiving Bate: 10/26/07 Reporting Date: 10/26/07

Project Owner: NOT GIVEN

Project Name: NOT GIVEN Project Location: NOT GIVEN Analysis Date: 10/26/07 Sampling Date: 10/26/07

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: SB

Analyzed By: AB

		CF
LAB NUMBER	SAMPLE ID	(mg/L)
H13587-1	PIT MONITOR WELL	9,897
H13587-2	FRESH WATER WELL	730
H13587-3	MONITOR WELL #1	104
H13587-4	MONITOR WELL #2	108
H13587-5	MONITOR WELL #3	356
H13587-6	MONITOR WELL #4	1,100
H13587-7	MONITOR WELL #5	100
H13587-8	MONITOR WELL #6	28
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent	Difference	< 0.1

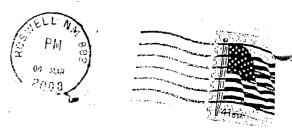
METHOD: Standard Methods 4500-CTB

Bute Superdon

WQCC-ACO#2 Salty Dog, Inc. OCD Exhibit QQ

1443587 SALTY DOG

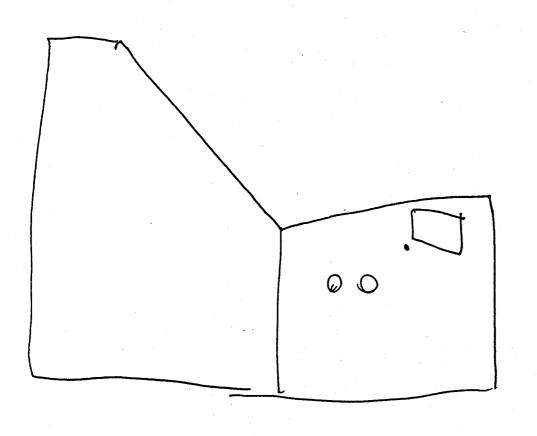
NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tord, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatspever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential demages, including, without limitation, buildness interruptions, insee of use, or loss of profits incurred by client, its substitutes or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. 2 IA TRANS PO Box 513 Hobbs N. M. 88242



OIL CONSERVATION PIN Attn C-LEN VON Gotten 1220 SOUTH St. FRANCIS SANTA FE NEW MEXICO 87505

#3202+4552-33 CO11







ANALYTICAL RESULTS FOR SALTY DOG INC. ATTN: JIM SAYRE P.O. BOX 513 HOBBS, NM 88241 FAX TO: (575) 393-8353

Receiving Date: 10/26/07

Reporting Date: 10/26/07

Project Owner: NOT GIVEN Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 10/26/07 Sampling Date: 10/26/07

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: SB

Analyzed By: AB

		Cl
LAB NUMBER	SAMPLE ID	(mg/L)
H13587-1	PIT MONITOR WELL	9,897
H13587-2	FRESH WATER WELL	730
H13587-3	MONITOR WELL #1	104
H13587-4	MONITOR WELL #2	108
H13587-5	MONITOR WELL #3	356
H13587-6	MONITOR WELL #4	1,100
H13587-7	MONITOR WELL #5	100
H13587-8	MONITOR WELL #6	28
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percen	t Difference	< 0.1

Buste Suprobo

METHOD: Standard Methods

Date

4500-Cl⁻B

H13587 SALTY DOG

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

#### ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: SALTY DOC									BILL TO												LYS	IS I	REC	QUE	ST			
Project Manager	JIM SAYRE								P.	O. #	:																	
Address:	P.O. Box 513 3-8352								Co	mp	any	:											- 1					
City: Hobbs		State: NM Z	ip:	2	88	24	6		At	tn:													- 1					
Phone #: 39	3-8352	Fax #: 505	ج -	59	3 -	83	5	3	Ac	dre	ss:						1			-								
Project #:								Ci	ty:										1									
Project Name:									St	ate:			Zip	o:					1									
Project Location	:								Phone #:																			
Sampler Name:									Fa	x#:						]							-					
FOR LAB USE ONLY						M	ATR	IX	1	PR	ESE	RV.		SAMPLI	NG	ļ			.									
Lab I.D.	Sample I.I	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLIDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:		DATE	TIME	6												
H12740-1	IMW				χ									6/10.	-6/12	X												
-2	2 mw				X										,	X					L					<u></u>		
-3	3mw				X								L			X				$\perp$		$\perp$						
~4	4 mw				χ		$\perp$	_	1	<u>L</u>	L		_			人			<u> </u>		_					L		
-5	5mw				X				_	L		<u> </u>	_			X					$\perp$							
-6	B4 P.+				X	_	_			_	_	$\perp$	L			*	<u> </u>			$\perp$	$\perp$	$\perp$			L	<u> </u>		
- 7	Water Well				X				$\perp$	$\perp$	_	_	L			X					$\perp$							
- 8	Nater Well Ranch House	se			X			$\perp$	_	L		1	_			*	1	_			$\perp$	$\perp$						
						$\perp$	_	$\perp$	1			1_	L			<u> </u>		_					$\perp$			<u> </u>	<u> </u>	
DI FASE NOTE: Liability on	d Company Condition's limbility and alliant								_	Ļ			Ļ			<u> </u>					J	丄						
analyses. All claims includir service. In no event shall Ca	d Damages. Cardinal's liability and client og those for negligence and any other ca Irdinal be liable for incidental or consequ og out of or related to the performance of	use whatsoever shall be de lental damages, including w	emed ithou	i waive t limita	ed unle stion, b	ss mad usiness	e in w interri	riting a uptions	nd rec	eived b	y Car or los	rdinal v ss of p	within rolits i	30 days afte incurred by o	r completion of t lient, its subsidia	he applica	ible											
Relinquished By	g out of or related to the performance of				/ed		ler suc	on clair	n as Da	ised up	on ar	ly of th	ie abc	ove stated re	Phone Re	sult:	ΠY		□ No	Add'	Pho	ne #:						
	-	Time:													Fax Resu REMARK		ΠΥ	es	□ No	Add	l Fax	#:						
Relinguished By	/:	Date:	Re	ceiv	/ed	Bv.										-												
102		Date: 06/17/07 Time: 40	-	A	-		Ī	3	***			1																
Delivered By:					\$	Sampi Cool	le C	ondi	tion	4	9	ECF (Init	(ED	BY:														
Sampler - UPS Bus - Other:  Cool Intact Yes X Yes No No No							es lo_																					

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



ANALYTICAL RESULTS FOR SALTY DOG ATTN: JIM SAYRE P.O. BOX 513 HOBBS, NM 88241 FAX TO: (505) 393-8353

Receiving Date: 06/12/07

Reporting Date: 06/12/07 Project Owner: NOT GIVEN Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 06/12/07

Sampling Date: 06/10/07 - 06/12/07 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: AB

		Cl
LAB NO.	SAMPLE ID	(mg/L)
H12740-1	1 MW	460
H12740-2	2 MW	940
H12740-3	3 MW	400
H12740-4	4 MW	420
H12740-5	5 <b>MW</b>	1340
H12740-6	B4 PIT	640
H12740-7	WATER WELL	11200
H12740-8	RANCH HOUSE	36
Quality Con	trol	500
True Value	QC	500
% Recovery		100
Relative Pe	rcent Difference	1.0

METHOD: Standard Methods 4500-CI^{*}B





PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Said to the

ANALYTICAL RESULTS FOR

SALTY DOG, INC.

ATTN: TERRY WALLACE

P.O. BOX 513 HOBBS, NM 88241

FAX TO: (505) 393-8353

Receiving Date: 04/05/07 Reporting Date: 04/06/07

LAB NUMBER

Relative Percent Difference

Project Number: NOT GIVEN Project Name: NOT GIVEN

Project Location: NOT GIVEN

Analysis Date: 04/06/07 Sampling Date: 04/04/07

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: HM

CI

(ma/L)

B ID HOMBEN	O/ WIII EE 12	(9, =)
H12431-1	MONITOR WELL #1	6398
H12431-2	MONITOR WELL #2	340
H12431-3	MONITOR WELL #3	404
H12431-4	MONITOR WELL #4	1280
H12431-5	MONITOR WELL @ WELL	660
H12431-6	MONITOR WELL @ PIT	5398
Quality Control		500
True Value QC		500
% Recovery		100

SAMPLE ID

METHOD: Standard	Methods	4500-Cl'B

Lope S. Mamo

04-06-07

Date

.....



ANALYSIS REQUEST

### ARDINAL LABORATORIES

Company Name:

Project Manager:

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Address: P	0. Box 5/3		Company: Salty2	Dos Inc	-				
	blos State: Nm	zip: 88240	Attn:						
	3-8352 Fax#: 39	3-8353	Address:						
Project #:	Project Owner	•	City:						
Project Name:			State: Zip:						
Project Location	1:		Phone #:			l			
Sampler Name:	Terry Wallace		Fax #:						
FOR LAB USE ONLY	,	MATRIX	PRESERV. SAMPLI	NG					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / CDOL OTHER:	TIME	- M				
H12431-1	Maritar Well #1		4-4.7	9:00A	X				
-2	Monitor Well #1 Monitor Well #3 Monitor Well #3 Monitor Well #4	6 X 6 X 6 X 6 X	4-4-7	9:004	X				
-3	Monitor Well #3	6- X	4-4-7	9:00 A	X				
-4	Monitor well #4	6 1	4-4-7	9:00 A	X				
-7	Montar Wellawell	6- X	4-4-7	9:00 A	X				
-6	Monter Well Pit	G X	4-4-7	9:00 A	X				
analyses. All claims includ service. In no event shall ( affiliates or successors and	and Damages. Cardinal's liability and client's exclusive remedy for a ling triose for negligence and any other cause whatsoever shall be cardinal be liable for incidental or consequental damages, including ling but of or related to the performance of services hareunder by C	deemed waived unless made in writing g without limitation, business interruption Cardinal, regardless of whether such cla	and received by Cardinal within 30 days aften os, loss of use, or loss of profits incurred by	er completion of th client, its subsidiar	e applicable ies, e.				
Relinquished B		Received By:	^ 1	Phone Re Fax Resul			Add'l Phone #: Add'l Fax #:		
12/1/	Wollare Time: 3: 20 p	July 1.	. el) <del>k</del>	REMARKS					
Relinquished B		Received By:		1					
	Time:								
Delivered By	: (Circle One)	Sample Cond		1					
Sampler - UPS	- Bus - Other:	Cool Intac	Yes (Initials)						
† Cardina	l cannot accept verbal changes. Pleas	e fax written changes t	to 505-393-2476						

BILL TO

P.O. #:



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR SALTY DOG ATTN: JIM SAYRE P.O. BOX 513 HOBBS, NM 88241 FAX TO: (575) 393-8353

Receiving Date: 05/30/08
Reporting Date: 06/02/08
Project Number: NOT GIVEN
Project Normal: NOT GIVEN
Project Location: NOT GIVEN

Analysis Date: 05/30/08 Sampling Date: 05/30/08 Sample Type: GROUNDWATER Sample Condition: INTACT Sample Received By: ML Analyzed By: HM/KS

LAB NO.	SAMPLE ID	(mg/L)
H14902-1	MW #1	76
H14902-2	MW #2	80
H14902-3	MW #3	360
H14902-4	MW #4	512
H14902-5	MW #5	1,220
H14902-6	MVV #6	36
H14902-7	BRINE PIT MONITOR WELL	8,600
H14902-8	FRESH WATER WELL	590
Quality Contro		490 500
% Recovery	,	98.0
Relative Perce	ent Difference	2.0

Kist Dipulo

METHOD: Standard Methods

Date

4500-CГB

H14902 SALTY DOG

# REUEIVED 2008 MAR 6 PM 1 59



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR SALTY DOG ATTN: JIM SAYRE P.O. BOX 513 HOBBS, NM 88241 FAX TO: (575) 393-8353

Receiving Date: 02/27/08 Reporting Date: 02/27/08 Project Number: NOT GIVEN Project Name: NOT GIVEN Project Location: NOT GIVEN Analysis Date: 02/27/08
Sampling Date: 02/27/08
Sample Type: GROUNDWATER
Sample Condition: INTACT
Sample Received By: ML
Analyzed By: HM

	· · · · · · · · · · · · · · · · · · ·	Cl
LAB NO.	SAMPLE ID	(mg/L)
H14335-1	WATER WELL	630
H14335-2	PIT WELL	9,500
H14335-3	MW-2	120
H14335-4	MVV-3	348
H14335-5	MW-4	476
H14335-6	MW-5	1280
H14335-7	MW-6	32
Quality Contro	ol	490
True Value Q	C	500
% Recovery		98
Relative Perc	ent Difference	2.0
METHOD: Star	ndard Methods	4500-CIB

the .f. Masus

02-27-08

Date

114335 SALTY DOG

WQCC-ACO#2 Salty Dog, Inc. OCD Exhibit RR

NOTE: Liability and Damages. Cardinal's liability and clenn's exclusive remody for any claim arising, whether based in contract or fort. shall be limited to the amount paid by client for unalyses all claims, including those for recipience and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within them; (30) days after completion of the applicable source. In no event shall Cardinal be hable for incidental or consequential demages, including, whithout limitation, business interruptions. Uses of use, or loss of profits incured by claim, its subscissions arisings, whithout invited in the subscission of the contraction of the

# QUARTERLY MONITORING REPORTS

# ARDINAL LABORATORIES 101 East Mariand, Hobbs, NM 88240

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 Fax (505) 393-2476 ZIA TRANS BILL TO ANALYSIS REQUEST Company Name: P.O. # Project Manager: Company: ZJA TRANS Address: PO Box 573 Attr. Jim SAYRE State: NM Zip: 58240 Phone # 393-8352 Project Owner: Project #: State() 4 Zip: 88240 Project Name: Phone #: Project Location: Fax#: Sampler Name: PRESERV. SAMPLING MATRIX FOR LAB LISE ONLY Sample i.D. Lab I.D. DATE TIME 414335-1 2 23/02 × analyses. All cleans, including those for negligeace and any allies bases in 30 date past due at the role of 25% per engues from the printed date of involve and all posts of collectors, including attorney's lines. ifflague of Europsons beauty and of an related to the performance of environs furturently by Continal, regardless of whither such drive in based upon any of the above stated tractors or otherwise Sampler Relinquished: Phone Result: Received By: □ No | Add'l Phone #; ☐ Yes ☐ No Add" Fax#: Fax Result: REMARKS: Relinguished By: Date: Received By Time: Delivered By: (Circle One) Sample Condition CHECKED BY: Cool intact
Yes Yes
No No No Sampler - UPS - Bus - Other:

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



ANALYTICAL RESULTS FOR SALTY DOG ATTN: JIM SAYRE P.O. BOX 513 HOBBS, NM 88241 FAX TO: (575) 393-8353

Receiving Date: 02/27/08
Reporting Date: 02/27/08
Project Number: NOT GIVEN
Project Location: NOT GIVEN

Analysis Date: 02/27/08 Sampling Date: 02/27/08

Sample Type: GROUNDWATER Sample Condition: INTACT Sample Received By: ML

Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/L)

H14335-1	WATER WELL	630
H14335-2	PIT WELL	9,500
H14335-3	MW-2	120
H14335-4	MW-3	348
H14335-5	MW-4	476
H14335-6	MVV-5	1280
H14335-7	MW-6	32
Quality Contro	ol ·	490
True Value Q	C	500
% Recovery		98
Relative Perce	ent Difference	2.0

/

METHOD: Standard Methods

charact Marens

Date

4500-Cl^{*}B

# ARDINAL LABORATORIES, INC.

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST** 

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 Page of Company Name: 2450 Din BILL TO ANALYSIS REQUEST Project Manager. P.O. # Address: (La Company: State: NW Zip: Attn: Fax #: Address: Project Owner: + City: Project Name: State: Zip: Project Location: 1000 Phone #: Sampler Name: W Fax #: MATRIX FOR LAB USE ONLY PRESERV SAMPLING Sample I.D. Lab I.D. DATE TIME M3653-1 2/14 30 days post due at the rate of 24% per arrest from the edginal data of trusto was of collectors, including attempty's fees Received By: ☐ Yes □ No Sampler Relinquished: Fax Result: O No Add'I Fax #: Time: 150 REMARKS: Received By: (Lab Staff) Date: Relinguished By: Lield Samplus Time: CHECKED BY: Delivered By: (Circle One) (initials) Sampler - UPS - Bus - Other:

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

Denth	in Feet	Thickness	man at Material Secondaries
From	To	in Feet	Color and Type of Material Encountered
1	51	5 '	BROKEN WEATHERED CALLEDE
5'	28'	23'	CALICH- INDURATED - GREY
28'	37 [′]	9'	QUARTE ITE - hard - Red BROWN
37.	49'	19'	SAND STONE -SOFT - TAN
491	51'	2'	QUARTITE - hard - whi.
51'	5-4'	3 ′	CLAY - Red BROWN
5-614	102'	48'	SANISTONE SOFT-TAN-WB
1021	104'	2'	CLAY-Rod-BROWN
104'	136'	32'	SANDSTONE - SOFT - TAN - W/3
136'	139'	3 ′	SANDSTONE - SOIFT - RED - BROWN - W/B
139'	140	1	Red Bed - T.D
·	· .		installed 2051,010 5105 2" Pur well
			Acreen and 119'+3' 2" Puc rise sine
			Bockfill uf Bruly sand to 112 1=1.
			Placed bentinite clips from 112 FT to
			26" befor surfus - instal well gound
``			and coment to top of surface
			Develope with air entil clean.
			BORE FROM SURFACE TO 4' used 8 1/4" bit.
			BORE FROMY TO 140' used 5'3" bit
		· .	
	·		

## Section 7. REMARKS AND ADDITIONAL INFORMATION

MONITOR WELL NO. I 100 FT FROM REM. WELLHI

LAT. 32° - 41.30 N. LON. 103° - 22.45 W. Co. Griffin Well serv, Driller Carl Smelcer UD 603

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDI	INAL LABOR	RATOF	RE	S,	INC	<b>5</b> .		_																		
	2111 Beechwood													}								Pag	ge	_ of		
Company Name:	(915) 673-700	1 Fax (9	15)	6/3	-702	4	505	) 39	3-2	232	o rax	k (505) 3:	93-2410	<u> </u>				ANAT	YSIS	RE	QUES	T				
Project Manager:	C//LE	770	_			u.K	بها	ð 🛊	ΩI	11	Till (	) PO	#:			T	<u> </u>	1		<u> </u>						
	SAC CY 2	~	<del>-)</del> -											1							] ,					
Address: (_9\	~ +11-W							$\neg$		pai	<u>ny:</u>			1		1			}		'					
City: Walda	State:	Zip:							ttn:		+			1 1						İ						1
Phone #:	<del></del>									res	<u>≅:}</u> _			1 1		1.	1				ŀ					i I
Fax #:				<b>)</b>	>-		1	_	ity		<u></u>	<del>2</del> 4		1 1												
Project #: South	Projec	Owner:	· P	`	ىعد	√U)<	لقم	-	state			Zip		{			1	1		[	1					1
Project Name: 😂	Zia	Solli	Ł	<u>)                                    </u>	<b>\-</b>			F	ho	ne i	<b>#</b> ;		7					ļ	1							1
Project Location:	W. Aldr		•		1				ax					4 1				1	1		1					
FOR LAB USE ONLY			۸.	ŀ		MAT	RIX	-	+	PF	RES.	SAMPI	ING	1-9			1		1					1	}	1
			(G)RAB OR (C) (WI	S	ER				1					1	}									ļ		
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PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242

FAX TO:

Receiving Date: 08/20/04

Reporting Date: 08/24/04

Project Owner: P. BERNSTEIN
Project Name: ZIA SALTY DOG
Project Location: W. HOBBS, NM

Analysis Date: 08/21/04 Sampling Date: 08/20/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: GP

CIT LAB NUMBER SAMPLE ID (mg/Kg)

H9048-1	LSB #1 5'	15995
H9048-2	LSB #1 10'	16795
H9048-3	LSB #1 15'	8397
H9048-4	LSB #1 20'	8397
H9048-5	LSB #2 5'	80
H9048-6	LSB #2 10'	160
H9048-7	LSB #2 15'	272
H9048-8	LSB #2 20'	128
H9048-9	LSB #3 5'	192
H9048-10	LSB #3 10'	2199
H9048-11	LSB #3 15'	384
H9048-12	LSB #3 20'	336
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percer	t Difference	6.8

METHOD: Standard Methods	4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

# SALTY DOG ANNUAL REPORT 2010

- 1) SPILLS: One spill occurred on Sep. 8th. 2010 @2000 pm. Form C-141 attached.
- 2) BRINE PRODUCTION METHOD: Inject f/w down casing @ an average of 150 lbs.
- 3) MIT'S PERFORMED: One MIT test on Nov. 16th. 2010. OCD's Hobbs office witnessed test, setting the packer within 10 feet of the casing shoe and pressure up the casing to 300 psi. Held at no more than a 10% loss for 30 minutes. Chart attached.
- 4) WORKOVERS: One workover performed, started on Dec.27th. 2010. Form C-103 attached.
- 5) SURFACE SUBSIDENCE MONITORING: No actions taken.

- 6) CAVERN SIZE & CONFIGURATION: See Attached
- 7) MONTHLY INJECTION / PRODUCTION VOLUMES: See attached
- 8) ANALYSES OF F/W & B/W: No actions taken
- 9) WASTE DISPOSAL: Spill water taken to Buckeye Disposal, LLC. CBM lease.
- 10) MONITORING & REMEDIATION ACTIVITIES: Currently in talks with Daniel B. Stephens & Associates, for groundwater cleanup.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr. Santa Fe NM 87505

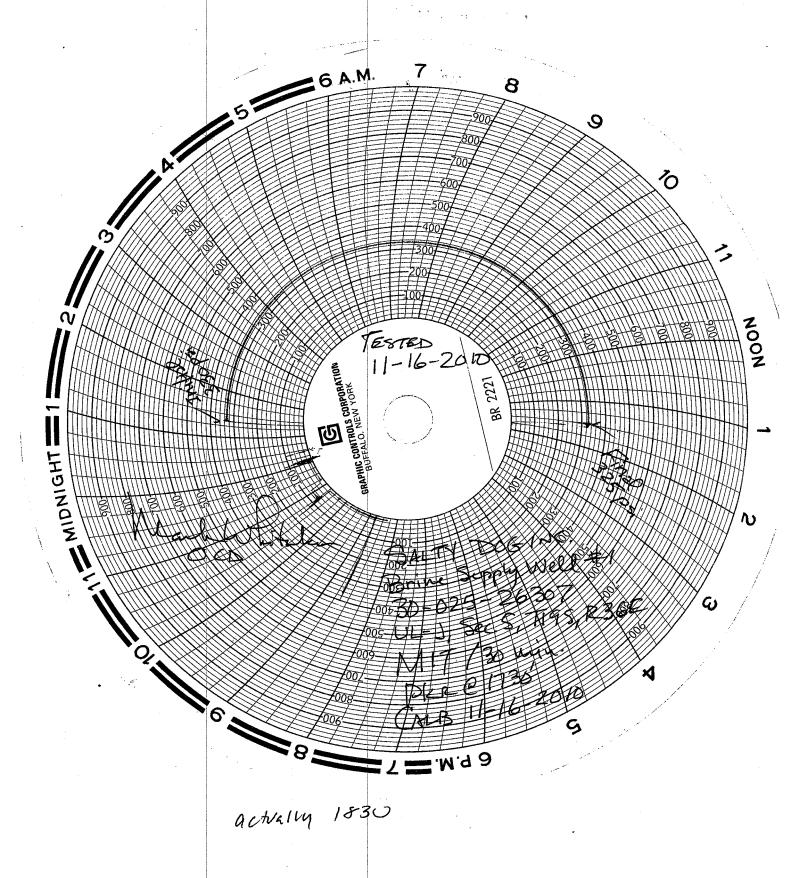
* Attach Additional Sheets If Necessary

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

### 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** X Initial Report Final Report Name of Company Aqueous **Contact Jon Ammons** Address Po Box 513 Hobbs, NM Telephone No. 575-393-8352 Facility Name Salty Dog Facility Type B/W & F/W facility Mineral Owner Lease No. Surface Owner LOCATION OF RELEASE Unit Letter Feet from the North/South Line Feet from the East/West Line County Section Township Range Lea Latitude Longitude NATURE OF RELEASE Type of Release B/w & F/w Volume of Release 300 BBIs. Volume Recovered 300 BBls. Date and Hour of Occurrence9-8-Source of Release Tubing Date and Hour of Discovery 9-8-10 @ 10@1930 2000 Was Immediate Notice Given? If YES, To Whom? Jeff Lucking ☐ x Yes ☐ No ☐ Not Required By Whom? Jon Ammons Date and Hour 9-9-10 @ 0800 Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☐ x No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Tubing parted causing well to leak water, 3 vacuum trucks dispatched to location asap cleaning spill. Describe Area Affected and Cleanup Action Taken.* Inside burm area & small area of dirt road outside of burm. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have laried to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the cavironnical. In addition, MMOCD acceptance of a C-141 report dies not relieve the operator of responsibility for compliance with any other OIL CONSERVATION DIVISION Signuture: Approved by District Supervisor: Printed Name: Jon Ammons Title: Manager Approval Date: Expiration Date: E-mail Address: jon@thestandardenergy|com Conditions of Approval: Attached Date: 9-10-10 Phone:575-393-8352



Supmit 1 Copy To Appropriate District	State of New 1	Mexico		Form C-103
Office  District I	Energy, Minerals and N	atural Resources		October 13, 2009
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.	
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	ON DIVISION	5. Indicate Type of Lease	
District III	1220 South St. F	rancis Dr.		EE 🗍
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM	87505	6. State Oil & Gas Lease	
1220 S. St. Francis Dr., Santa Fe, NM				
SUNDRY NOT	ICES AND REPORTS ON WEL	IS	7. Lease Name or Unit Ag	reement Name
(DO NOT USE THIS FORM FOR PROPO	SALS TO DRILL OR TO DEEPEN OR	PLUG BACK TO A	7. Lease Maine of Olit Ag	recincin ivanic
DIFFERENT RESERVOIR. USE "APPLI	CATION FOR PERMIT" (FORM C-101	) FOR SUCH	Salty Dog,Inc.	
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well Other X		8. Well Number Salty Dog	g#1
2. Name of Operator	Gus Wen Care States 21		9. OGRID Number	
Salty Dog, Inc.				
3. Address of Operator			10. Pool name or Wildcat	
PO Box 513 Hobbs,NM 88240				
4. Well Location				
Unit LetterJ	1980feet from the	North/South	line and1980	feet from
the East/Westline				
Section 5	Township 19S	Range 36E		County Lea
	11. Elevation (Show whether )	DR, RKB, RT, GR, etc.)		
		<u> </u>	<u></u>	<u> </u>
10 01 1		27 / C27 /	<b>.</b>	
12. Check	Appropriate Box to Indicate	Nature of Notice,	Report or Other Data	
NOTICE OF IN	ITENTION TO:	SUB	SEQUENT REPORT	OF.
PERFORM REMEDIAL WORK X	PLUG AND ABANDON	REMEDIAL WORK		NG CASING 🔲
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI		
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	T JOB x	
DOWNHOLE COMMINGLE				
OTHER:		OTUED.		<b></b>
	leted operations. (Clearly state a	OTHER:	doive pertinent dates includ	ing estimated date
of starting any proposed w	ork). SEE RULE 19.15.7.14 NM	AC. For Multiple Con	npletions: Attach wellbore	liagram of
proposed completion or rec	completion.		_	_
14. Rigging down pulling unit	, Rigging up drilling rig. To drill	with 3 ½ drill pipe to	a depth of 2600'on 1-Dec-2	2010
15.Drilled to a depth of 2600' o	n 27-Dec-2010. replacing 13 join	its, workover complete.	•	
Sand Data				
Spud Date:	Rig Release	Date:		
		<u> </u>		
I hereby certify that the information	shove is true and complete to the	1 1 1	11 1 0	<del></del>
and the information	and and comblete to the	desi of my knowledge	and benef.	
SIGNATURE Jon Amme		TITLE	Yard	
Manager	DATE12-1-2010			
Type on mint many				
Type or print nameJon Ammor ammons17@yahoo.com		E-mail address:		
ашионы /@уаноо.com	PHONE:	575-390-3414	***	
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# WELL BORE SKETCH

N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001   N801-001-001-001   N801-001-001-001-001   N801-001-001-001-001-001-001-001-001-001-	OPERATOR/LEASE/WE	LL Brunson & McKni	ight IncBrine	Supply Well DATE	11-9-82
Hole Size   12 1/4"		NB01-001-001		and the second	
Hole Size 12 1/4"  SURFACES CASING:  Size 2.5(2)" Weight 24# 5.32# Grade J-55  Set at 1877 with 850 Sacks Cer  Circulate 200. Sacks to Sur  Remarks: J.  PRODUCTION CASING: *  Sixe Weight Wight Sacks Cer  Cement Top: Calculated with Temperature Survey.  Remarks: No production casing was run in this well.  Completed open hole from 1877 to 2958 as a brint source Veil.  TUBING:  Size 2.778 Weight 6.5# Grade J-53;  Number of Joints 93 Set at 88877.  Packer Set at None  Bollow Arrangement: Open ended and 15' of perforations.  ROOS:  Size N/2 Number				the second second second second second second second second second second second second second second second se	
BURFACES CASING:  Size R 5/8" Weight 24# 6.32# Grade J-55  Set at 1877 with 850 Sacks Cer  Circulate 200. Sacks to Sur  Remarks:  PRODUCTION CASING: *  Size Weight Set at With Secks Cer  Cement Jop: Calculated Temperature Survey.  * Remarks: No production casing was run in this well.  Completed Jopen hole from 1877 to 2958 gs. a. brant source Well.  TUBING:  Size 2-7/8 Weight 6.5# Grade J-55  Number of Joins 93 Set at 2887  Packer Set at None  Pollom Arrangement: Open ended and 15° of perforational strength.  RODS  Size N/A Number		2958'	KB <u>3816 est</u>	ELEV	ATION
SURFACES CASING:  Size R 5/8" Weight 24# 6.32# Grade J-55 Set at 1877 with 850 Sacks Cer Circulate 200. Sacks to Sur Remarks:  PRODUCTION CASING: * Size Weight Set at With Secks Cement 70p: Calculated Temperature Survey.  * Remarks: No production casing was run in this well.  * Remarks: No production casing was run in this well.  * Source Well.  * TUBING: Size 2-7/8 Weight 6.5# Grade J-55 Number of Joins 93 Set at 2887 Packer Set at None  * Pollom Attans sment: Open ended and 15° of perforation in thing.  * RODS Size M/A2 Number		uola Sira 1	2 1/4"		
Size 8.5/8" Weight 248 & 328 Grade J-55 Set at 1877 with 850 Sacks Cer Circulate 200 Sacks to Sur Remarks:  PRODUCTION CASING: * Size Weight Set at With Section Casing was run in this well.  Set at with Secks Cereminator Completed Set at Set at Section Casing was run in this well.  Completed Set at Section Casing was run in this well.  Completed Set at Section Casing was run in this well.  Surce Well.;  TUBING: Size 2.7/8 Weight 6.58 Grage J-35 Number of Joins 93 Set at 2887 Packer Set at None Bottom Arrangement: Open ended and 15° of perforation things.  RODS Size M/A Number					
Hole Size 6 L/4"  PRODUCTION CASING: *  Sixe Weight Grade Set at With Sacka Ce Cement Too: Calculated with Sacka Ce Cement Too: Calculated casing was run in this well.  Remarks: No production casing was run in this well. Completed open hole from 1877' to 2958' as a build source Well:  TUBING: Size 2 //8 Weight 6.54 Grade 4-358. Number of Joints 93 Packer Set at None. Bollom Arrangement: Open ended and 15' of perforationing  RODS Size N/As Number		Siz Sel	e 8 5/8" at 1877	Weight 24# & 32# with 850	_Grade_J-55 Sacks Cement
Hole Size 6 1/4"  PRODUCTION CASING: *  Size Weight Grade Seck Co Cement Temperature Survey * Remarks: No production casing was run in this well Completed open hole from 1877 to 2958 as a bring source well;  TUBING: Size 2.778 Weight 6.5# Grade 7-55 Number of Joints 93 Set at 2887. Packer Set at None Bollom Arrangement: Open ended and 15 of perforationing  RODS: Size N/A Number				<b>b</b>	Sacks to Surface
PRODUCTION CASING: *  Size Weight Grade Set at with Secks Co					
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TUBING:  Size 2.7/8 Weight 6.5# Grade 3.55% Number of Joints 93 Set at 2887  Packer Set at None  Boltom Arrangement: Open ended and 15' of perforation by the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of		* R	ompleted open h	ole from 1877 to	2958' as a brine
TUBING:  Size 2.7/8 Weight 6.5# Grade 7-55%  Number of Joints 93 Set at 2887  Packer Set at None  Bottom Arrangement: Open ended and 15' of perforation of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of	<b>                                     </b>		ource Well.		
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Arrangements.	{				

# Fresh injected in hole in sallas

File Number: (For OSE Use Only)

Contact:	Salty Dog		Work Phone:	806-741-1080
	2410 Erskin Lubbock, Tx 79408		State: T Zij	o: <u>79408</u>
c. Latitude:	TION er: 30 - 025 - 6 E 1/4 N = 1/4 Section 30 d 4/ m 4/1.238 (m), North	s Longitude	: 103 d 22	m 14.803 s
3. TOTALIZING ME	TER			
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File	Number	:			
		(For	OSE	Ųse	Only

Name: Salty Dog Contact:	Work Phone: 806-741-/080
Address: 2410 Frskin City: Lybbock, 7x 79408	State: 74 Zip: 79408
2. WELL INFORMATION  OSE Well Number: 30 - 025 - a.NW 1/4 NE 1/4 NE 1/4 Section b.	26367 Brine Dell # 1 n:05 Township:195 Range:36E N.M.P.M. Subdivision
c. Latitude: 30 d 41 m 43.23 d. East(m), North	S Longitude: 103 d 22 m 16.803 s (m), UTM zone 13, NAD (27 or 83)
3. TOTALIZING METER	
Serial Number: # of Dials: Multiplier:	Make:
4. METER READING	
Reading Date: 6-28	Meter Reading: 245746
5. ADDITIONAL STATEMENTS OR EXPLANATI	ONS:
Submit	ted by:
INSTRUCTION:	
Specific questions should be answered as follows:  (4) Please submit readings of figures on the meter a  (5) Under comments, give any pertinent information	nd the date of the reading; n concerning repair of meter
and dates out of service, etc.	
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File Number: (For OSE Use Only)

Contact:	alty Dog		Jork Phone: Jome Phone:	806-741-1080
City:	vbbock, 7× 79408	st	ate: 🏒 Zi	: <u>79408</u>
c. Latitude: 2	TION  ar: 30 - 035 -  1/4 N = 1/4 Section  50 d 41 m 43.23  (m), North	a Longitude: }	03 a 22	m 14.803 s
3. TOTALIZING ME	TER			
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File Number: (For OSE Use Only)

1. PERMITTEE Salty Dog	Work Phone: 806-741-/080
Contact:	Home Phone:
Address: 2410 Erskin	
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City: Lubbock, 7x 7940	State: 74 Zip: 79408
2. WELL INFORMATION	a sale a
007 W-11 Mustan 30 - 035	- 26307 Brine Well # 1
a Mu) 1/4 NE 1/4 NE 1/4 Sect	ion: 05 Township: 195 Range: Sto E N.M.P.M.
b.	Subdivision
c. Latitude: 32 d 41 m 43.	238s Longitude:-103 d 22 m 16.803s
d. East(m), North	(m), UTM Zone 13, NAD (27 or 83)
3. TOTALIZING METER	
G-14-2 27-1	
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# of Dials: Multiplier:	Model: Units:
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4. METER READING	
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Reading Date: 7.(2	Meter Reading: 25042
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5. ADDITIONAL STATEMENTS OR EXPLAN	
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INSTRUCTION:	
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File Number: (For OSE Use Only)

Contact: Address: City: 2. WELL INFORM	Salty Dog 2410 Erskin Lubbock, 7x 79408 ATION Der: 30 - 025 E 1/4 NE 1/4 Section	St	ome Phone: ate: <u>T</u> Zír	: 79408
a.NW 1/4 N	E 1/4 NE 1/4 Section	n: 05 Township: 19	S Range: S	N.M.P.M. Subdivision
b.	30_d 41_m 43.23	A Longi tude:	03 d 22	m 14.803 s
d. East	(m), North	(m), UTM Zone	13, NAD	(27 or 83)
3. TOTALIZING M	:			
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# of Dials	3;	Model:		
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4. METER READIN			2 / 2	28
Reading Date:	1.19	Meter Reading:	252	,70
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	Submi	tted by:		
(4) Please submit re	could be answered as follows: adings of figures on the meter s, give any pertinent information service, etc.			
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File	Number				
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1. PERMITTEE Name: Contact: Address: 2410 Erskin	Work Phone: 806-741-1080
City: Lubbock, 7x 7940	98 State: Ty Zip: 79408
2. WELL INFORMATION	
OSE Well Number: 30 - 025 a.Nw 1/4 NE 1/4 NE 1/4 Sect b. c. Latitude: 30 d 41 m 43. d. East	-26357 Brine Well # 4 tion: 05 Township: 195 Range: 31 E N.M. P.M. Subdivision 288s Longitude: -103 d 22 m 16.803 s (m), UTM Zone 13, NAD (27 or 83)
3. TOTALIZING METER	
Serial Number: # of Dials: Multiplier:	Make: Model: Units:
4. METER READING	
Reading Date:	Meter Reading: 25553
5. ADDITIONAL STATEMENTS OR EXPLAN	ATIONS:
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INSTRUCTION:	
Specific questions should be answered as follow: (4) Please submit readings of figures on the met	ter and the date of the reading;
(5) Under comments, give any pertinent inform and dates out of service, etc.	ation concerning repair of meter
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File Number: (For OSE Use Only)

1. PERMITTEE Salty Dog	Work Phone: 806-741-/080
	Home Phone:
Contact:	. Home Frione.
Address: 2410 Erskin	
City: Lybbock, 7x 7940	State: 74 Zip: 79408
2. WELL INFORMATION	0
b. c. Latitude: <b>30</b> d <b>41</b> m <b>43.2</b>	- 26367 Brine Well 4. /
3. TOTALIZING METER	
Serial Number:	Make:
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Wultiplier:	Units:
4. METER READING	7570(
Reading Date:	Meter Reading: 2570 6
5. ADDITIONAL STATEMENTS OR EXPLANA	TIONS:
	itted by:
INSTRUCTION:  Specific questions should be answered as follows:  (4) Please submit readings of figures on the meter  (5) Under comments, give any pertinent informat and dates out of service, etc.	
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File Number: (For OSE Use Only)

1. PERMITTEE Name:	Salty Dog	'	Work Phone:	806-741-1080
Contact:	Jul 17 00-j		Home Phone:	
Address:	2410 Erskin			
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City: _	Lubbock, 7x 7	9408	_ State: T\( \frac{1}{2} \) Zi	p: <u>19408</u>
2. WELL INFOR	MATION			سل
	20 - 00	25 - 26307 ection: 05 Township	Roins 10	11-4-4
OSE METT NO	mber: 30 - 00	loction A E Township	195 Range:	N.M.P.M.
b.	1/4 1/4 2	eccion.	1100	Subdivision
c. Latitude	: 30 d 4/1 m 4	1.23 Longitude	:-103 d 22	m 14.803 s
d. East	(m), North	3.238 s Longitude (m), UTM	Zone 13, NAD	(27 or 83)
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	ls:			
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4. METER READ	ING			
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INSTRUCTION:		•		
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File Number: (For OSE Use Only)

1. PERMITTEE Name: Contact: Salty Dog	Work Phone: 806-741-1080
Address: 2410 Erskin	
City: Lubbock, 7x 79	7408 State: T4 2ip: 79408
2. WELL INFORMATION	
OSE Well Number: 30 - 03 a.Nw 1/4 NE 1/4 NE 1/4 S b. c. Latitude: 30 d 4/ m 4/ d. East (m), North	25 - 26307 Brine Well # 1 ection: 05 Township: 195 Range: 36 N.M.P.M. Subdivision 5.238 S Longitude: -103 d 22 m 16.803 S (m), UTM Zone 13, NAD (27 or 83)
3. TOTALIZING METER	
Serial Number: # of Dials: Multiplier:	Make: Model: Units:
4. METER READING	21/2
Reading Date: 8'/6	Meter Reading: 24214
5. ADDITIONAL STATEMENTS OR EXPL	
	Submitted by:
INSTRUCTION:	Submitted by:
Specific questions should be answered as foll (4) Please submit readings of figures on the (5) Under comments, give any pertinent info and dates out of service, etc.	meter and the date of the reading;
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Form: wr-26	page 1 of 1

File Number: (For OSE Use Only)

1. PERMITTEE C. 14. D.	Work Phone: 806-741-/08
Name: Salty Dog	Work Phone: Ott 717 700
Contact:	Home Phone:
Address: 2410 Frskin	
city: Lubbock, 74 794	08 State: 74 Zip: 79408
2. WELL INFORMATION	a subsu
a./VIU 1/4 TUE 1/4 NIE 1/4 Sec	tion: 05 Township: 195 Range: 34 E N.M.P.M. Subdivision 288 s Longitude: -105 d 22 m 16.808 s (m), UTM Zone 13, NAD (27 or 83)
3. TOTALIZING METER	
Serial Number:	Make:
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Multiplier:	Model: Units:
4. METER READING	
	21,200
Reading Date: $8.23$	Meter Reading: 2 4 309
5. ADDITIONAL STATEMENTS OR EXPLAN	fations:
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File	Number				
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1. PERMITTEE Salty Dog		Work Phone:	806-741-1080
Name: Sally Dog Contact:		Home Phone:	
Address: 2410 Erskin	:	_	
•		- 	77 Q'1/10 Q
city: Lubbock, 7x 79408		State: Ty Zi	p: <u>17700</u>
2. WELL INFORMATION			ر عليه،
OSE Well Number: 30 - 025 -	26307	Brine W	الع
a.NW 1/4 NE 1/4 NE 1/4 Section	n: 05 Township	195 Range: 5	
h	ł.		Subdivision
c. Latitude: 32 d 41 m 43.23	s Longitude:	one 13 NAD	m (27 or 83)
d. East (m), North	(III), OIM	One 15, 1225 _	12. 02 50,
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Reading Date: 8,50	Meter Reading		
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(5) Under comments, give any pertinent information	n concerning repair o	f meter	
and dates out of service, etc.			,
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File Number: (For OSE Use Only)

1. PERMITTEE Name: Contact: Address:	Salty Dog	Work Phone: Home Phone:	806-741-108
City:		State: 7\(\frac{7}{2}\) State:	79408
2. WELL INFOR	MATION		مال.
c. Latitude	: 30 d 41 m 41.2	-26357 Brine We on: 05 Township: 195 Range: 34 32 (m), UTM Zone 13, NAD	n <b>14.803</b> s
3. TOTALIZING	METER		
Serial Numb # of Dia Multipli	ls:	Make: Model: Units:	
4. METER READ			
Reading Dat	e: <u>9</u> .0	Meter Reading: 267-	5/
•	STATEMENTS OR EXPLANA	TIONS:	
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COMLACE:	Salty Dog	Work Phone: 806-741-/08
1	Lubbock, 7x 79408	State: 74 Zip: 79408
2. WELL INFORM	ATION	٠ ملا.
OSE Well Number 1/4 No. c. Latitude:	oer: 30 - 025 E 1/4 NE 1/4 Section 30 d 41 m 43.23 (m), North	- 26367 Brine Wel 4.  on: 05 Township: 195 Range: 36 N.M.P.M. Subdivision 385 Longitude: -103 d 22 m 16.803 s (m), UTM Zone 13, NAD (27 or 83)
3. TOTALIZING M	eter	
Serial Number # of Dials Multiplier	3;	Make: Model: Units:
4. METER READIN	iG	
Reading Date:	1-1.10- 6-21-1	O Meter Reading:
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	Submi	tted by:
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(5) Under comment and dates out of	s, give any pertinent informati service. etc.	on concerning repair of meter
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# Brine produced in \$51'S

File Number: (For OSE Use Only)

1. PERMITTEE Name:	Salty Dog		Work Phone:	806-741-1080
Contact:	70011		Home Phone:	
Address:	2410 Erskin			
				70410 B
City: _	Lubbock, 7x 7940	8	State: T+ Zi	p: <u>17408</u>
2. WELL INFORM	IATION			سل
	mber: <u>30 - 025</u> NE 1/4 NE 1/4 Sect	-01-2107	R. In	. 1 = 4
OSE Well Nu	nber: 30 - 025	des DE Mourahia	.10 & Panga .4	N.M.P.M.
a./ <u>/u</u>	1/4 NE 1/4 Sect	TOWNSHIP	. 17 3 Kange Q	Subdivision
c. Latitude	30 d 41 m 43.2	137s Longitude	:-103 d 22	m 16.803 s
d. East	: 32 d 4/ m 43.2 (m), North	(m), UTM	Zone 13, NAD	(27 or 83)
3. TOTALIZING	AETER			
Serial Numbe	er:	Make:		
# of Dia		Model:		
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4. METER READI	NG		21/0	(0
Reading Date	e: 6 6 21	Meter Readin	ر) ۲۷ که	( <i>O</i> )
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File Number: (For OSE Use Only)

1. PERMITTEE Salty Dog	Work Phone: 806-741-1080
Contact:	Home Phone:
Address: 24/0 Frskin	
city: Lubbock, 7x 79408	State: 74 Zip: 79408
2. WELL INFORMATION	1
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September 18, 2009

Mr. Jim Griswold New Mexico Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Monitor Well Installation and Groundwater Monitoring Report

Dear Mr. Griswold:

On behalf of PAB Services, Inc., Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to submit the enclosed Monitor Well Installation and Groundwater Monitoring Report for the Salty Dog brine station located in Lea County, New Mexico. The report documents field investigation activities conducted at the site in March and April 2009 in partial fulfillment of the requirements set forth in Section 15 of the New Mexico Oil Conservation Division (OCD) Settlement Agreement & Stipulated Revised Final Order (Order), dated August 6, 2008.

Please don't hesitate to call me at (505) 353-9130 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Michael D. McVey Senior Hydrogeologist

**Enclosures** 

cc: James Millett, PAB Services Inc.

# Monitoring Well Installation and Groundwater Monitoring Report Salty Dog Brine Station Lea County, New Mexico

Prepared for New Mexico Energy, Minerals and Natural
Resources Department
Oil Conservation Division, Environmental Bureau

September 18, 2009



Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109



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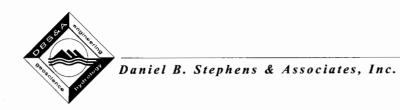
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- A Soil Boring Logs and Well Completion Diagrams
- **B** Laboratory Reports
- C Well Data Forms
- D Survey Report



#### 1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this monitor well installation and groundwater monitoring report for submission to the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (OCD) on behalf of PAB Services, Inc. (PAB) for the Salty Dog brine station (Site). The Site is located in Lea County in southeastern New Mexico, approximately 12 miles west of Hobbs on the south side of the Hobbs/Carlsbad Highway (Figure 1). Formally, the Site is located in the in the J Unit of Section 5, Township 19 South, Range 36 East. This report summarizes field investigation activities conducted at the Site in March and April 2009.

## 1.1 Background

On May 18, 2008, OCD issued Administrative Compliance Order (ACO), NM-OCD-2008-02, to Mr. Peter Bergstein (d/b/a "Salty Dog, Inc.") (OCD, 2008a). After issuance of the ACO, OCD and Mr. Bergstein engaged in settlement discussions to resolve the outstanding issues addressed by the ACO. The OCD and Mr. Bergstein agreed to a Settlement Agreement & Stipulated Revised Final Order (Order), NM-OCD 2008-2A (OCD, 2008b), for the purpose of resolving the violations outlined in the ACO.

The Order requires Mr. Bergstein to complete certain actions to address environmental compliance-related issues at the Site in accordance with milestone deliverable dates agreed upon by the OCD and PAB. Specifically, among other things, the Order requires PAB to address contamination resulting from documented releases in 1999, 2002, and 2005, as well as releases at the brine loading/unloading area.

The ACO provides a description of each of these releases, which are summarized here. The 1999 release was caused by a hole in the casing of the Salty Dog brine well and resulted in contamination of the fresh water well on "Snyder Ranches," adjacent to the Site. The 2002 release was caused by a leaking tank in the vicinity of the brine well, and the 2005 release was caused by a rupture in the brine supply pipeline. The 2002 and 2005 releases were noted to have entered a fresh water playa located just north of the brine well.



## 1.2 Previous Work Conducted by DBS&A at the Site

To date, DBS&A has performed the following activities under contract to PAB: (1) preparation of a Comprehensive Site Plan, (2) groundwater monitoring, and (3) removal of the brine pond. Each of these activities is summarized below.

#### 1.2.1 Comprehensive Site Plan

In September 2008, DBS&A submitted a Comprehensive Site Plan (Plan) to OCD addressing the requirements set forth in Section 15 of the Order (DBS&A, 2008). The Plan presented a proposed project schedule and individual specifications/proposals for addressing the environmental compliance-related issues at the Site. The Plan formed the basis for future investigation, characterization, and remediation of the Site.

#### 1.2.2 Groundwater Monitoring

In June 2008, DBS&A completed groundwater monitoring at the Site. Groundwater samples were collected from existing monitor wells PMW-1, MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6, and from the ranch headquarters water supply well and the brine station fresh water supply (Figure 2). A groundwater sample was not collected from the mobile home located west of the brine well because the mobile home and the ranch headquarters use the same water supply well.

Prior to sampling, the depth to water was measured in each of the seven monitor wells listed above. Water levels were not measured in the ranch headquarters water supply well and the brine station fresh water supply well because of the presence of permanent submersible downhole pumps that blocked access to the wells. DBS&A could not determine groundwater elevations in the existing site wells nor could a potentiometric surface map be developed because an official survey from a New Mexico licensed land surveyor had not been completed at the Site. However, based on regional groundwater data and information contained in previous reports provided by PAB, DBS&A assumed that the direction of groundwater flow beneath the Site is to the southeast.

Laboratory results showed that chloride concentrations increased in six of the seven existing groundwater monitor wells (PMW-1, MW-1, MW-2, MW-3, MW-4, and MW-5) and in the brine station fresh water well since the wells were last sampled by employees of Salty Dog in May



Daniel B. Stephens & Associates, Inc.

2008. In six of the nine samples collected (PMW-1, MW-2, MW-3, MW-4, MW-5, and the brine station fresh water supply well), chloride concentrations exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard of 250 mg/L (Figure 2).

The groundwater monitoring results indicated that the extent of the chloride groundwater plume in the vicinity of the brine pond has not been delineated. To the south, in the area of the brine well, the chloride groundwater plume extends from the brine well downgradient to monitor wells MW-4 and MW-5. Assuming a southeasterly groundwater flow direction, the plume is bounded downgradient by monitor well MW-6. The cross-gradient extent of the plume, however, has not been delineated (Figure 2).

Based on the findings, DBS&A recommended that the extent of the chloride groundwater plume in the vicinity of the brine pond be delineated, and that the cross-gradient extent of the chloride groundwater plume downgradient of the brine well be delineated.

#### 1.2.3 Brine Pond Removal

In October 2008, the brine pond was removed in accordance with the OCD Order. Employees of Salty Dog pumped all of the aqueous brine from the pond into aboveground frac tanks located on-site. A trackhoe was then used to excavate the accumulated salt from the interior of the pond. The excavated salt was loaded into sealed bins and dump trucks and transported to Sundance Services, Inc. (Sundance) in Eunice, New Mexico for disposal. After the salt was removed from the pond interior, the underlying liner was removed and an additional six inches of the clay beneath the liner was excavated. The liner and soil excavated from beneath the liner were transported to Sundance for disposal. A total of 2,128 cubic yards of salt and contaminated soil were hauled to Sundance for disposal.

DBS&A completed soil sampling beneath the former brine pond and in the former brine loading area located on east side of the pond in November 2008. A 30-foot by 30-foot grid was laid out over an area measuring 180 feet (north-south) by 240 feet (east-west). The gridded area encompassed: (1) the entire extent of the former brine pond (including the berms and a distance of approximately 10 feet outside of the berms) and (2) the former brine loading area. A total of 76 composite soil samples were submitted for laboratory analysis. At each sample location, a backhoe was used to excavate soil to the maximum attainable depth. Sixty-one soil samples



were collected from depths of 4 feet below ground surface (ft bgs) or less and 15 samples were collected from depths greater than 4 ft bgs. Excavation to depths greater than 3 to 4 ft bgs was limited in most cases by the presence of caliche in the shallow subsurface.

Soil samples collected from the bucket of the backhoe during excavation were composited in a stainless steel bowl and then placed in laboratory-provided four-ounce glass jars. The samples were submitted to the laboratory for chloride analysis using U.S. Environmental Protection Agency (EPA) method 300.0.

Laboratory results showed significant concentrations of chloride in the shallow interval (0 to 4 ft bgs) beneath the former brine pond and brine loading area. Although the number of samples collected at greater depths (i.e., greater than 4 ft bgs) were limited due to the presence of caliche in the shallow subsurface at the site, the results from the samples that were collected in this deeper interval indicated that there is not a noticeable difference in chloride concentration from 0 to 4 ft bgs and 4 to 8 ft bgs. It is anticipated, based on the concentrations of chloride observed in the soils beneath the former pond and loading area, that these concentrations do not decrease significantly in the vadose zone and that the concentrations exceed the OCD standard of 500 mg/kg (site with groundwater less than 100 ft bgs) throughout the vadose zone to the water table at approximately 60 ft bgs. This conclusion was supported by the June 2008 sampling of monitor well PMW-1, located at the southeast corner (downgradient) of the brine pond, where the chloride concentration in groundwater was 12,700 mg/L.

Based on the findings, DBS&A recommended that the chloride-contaminated soils be left in place, but the potential for leaching and migration of chloride to the water table be reduced by limiting the infiltration of surface water and precipitation in the source area. To accomplish this, DBS&A and PAB propose to level the entire extent of the former brine pond and brine loading area, backfill and compact the former brine pond to grade, and cover the entire area with concrete. A new brine tank battery, brine loading area, and truck turnaround will then be constructed in this area as detailed in Section 3.6 of the Comprehensive Site Plan.

DBS&A also recommended that the extent of the chloride groundwater plume in the vicinity of the former brine pond and brine loading area be delineated as detailed in Sections 3.1.1.1 and 3.1.1.2



of the Plan by installing five groundwater monitor wells, one nested well, and ongoing quarterly groundwater monitoring and reporting.

#### 1.3 Purpose

The purpose of the field investigation was to determine the magnitude and extent of impacts to soil and groundwater from the 1999, 2002, 2005, and the brine loading/unloading releases. The investigation was performed in accordance with the requirements of the Order and Sections 3.1, 3.2, and 3.3 of the Plan, approved by the OCD on September 17, 2008.

This report constitutes the first of three milestone deliverables: (1) Monitor Well Installation and Ground Water Monitoring report, (2) Recovery Well Installation and Pump Test report, and (3) Conceptual Remedial Design.

## 1.4 Project Scope

The Order identified three areas of primary concern (AOPC) requiring investigation and/or further delineation of the extent of contamination: (1) the brine loading/unloading area and brine pond, (2) the brine well, and (3) the playa.

To address the AOPCs and groundwater quality at the site, DBS&A completed a field investigation program that included the installation of nine groundwater monitor wells and two nested wells. DBS&A also instituted an analytical program to assess the likely contaminants of concern (COCs) in soil and groundwater at the Site. Finally, DBS&A prepared this report documenting the investigation.

Sections 2 and 3 of this report detail the field investigation and analytical program, respectively. Section 4 presents the results of the investigation, and Section 5 provides DBS&A's summary and conclusions.



# 2. Field Investigation

Subsurface conditions and groundwater quality were evaluated by the installation of nine monitor wells and two nested wells, and the collection of soil and groundwater samples in each of the three AOPCs. Samples of soil and groundwater were submitted to the selected analytical laboratory for chemical analysis based on the identified COCs. Descriptions of the soil and groundwater field investigation programs are presented below.

## 2.1 Soil Boring

The soil investigation program included the installation of 11 soil borings, which were later completed as monitor wells to assess groundwater quality. Details of monitor well installation and construction are discussed in Section 2.2 below. The drilling was performed by Peterson Drilling and Testing, Inc. of Amarillo, Texas, a New Mexico licensed drilling company, using air rotary drilling technology. All of the borings were advanced to a total depth of 83 ft bgs. The locations of the borings were predetermined by DBS&A prior to the field investigation (DBS&A, 2008).

All field work was performed under the supervision of a licensed professional geologist. Soil samples were collected during drilling using a split spoon for laboratory analysis. Samples collected for laboratory analysis from the borings were placed in an ice-filled cooler immediately after collection and remained on ice until they were delivered to the analytical laboratory. Chain-of-custody documentation accompanied the samples at all times. Investigation derived waste was stockpiled on visqueen and properly disposed of at a licensed facility after completion of the field investigation.

A description of the field investigation in each of the three AOPCs is provided below.

#### 2.1.1 Brine Pond

Six soil borings, designated DBS-1 through DBS-5 and NW-1, were installed in the vicinity of the brine pond (Figure 3). Soil cuttings and split spoon samples were used during drilling for lithologic description. Soil samples were collected for laboratory analysis at 10-foot intervals



Daniel B. Stephens & Associates, Inc.

during drilling to quantify the chloride concentration profile with depth. Soil boring logs showing the subsurface geology at each location are provided in Appendix A. Laboratory results from soil samples collected during drilling are summarized in Table 1. Complete laboratory reports for the soil samples are provided in Appendix B.

#### 2.1.2 Brine Well

Four soil borings designated DBS-6 through DBS-8 and NW-2, were installed downgradient of the brine well (Figure 4). Soil samples were collected at 10-foot intervals during drilling for laboratory analysis as described above. Soil cuttings and split spoon samples were used during drilling for lithologic description. Soil boring logs showing the subsurface geology at each location are provided in Appendix A. Laboratory results from soil samples collected during drilling are summarized in Table 1. Complete laboratory reports for the soil samples are provided in Appendix B.

#### 2.1.3 Playa Lake

One soil boring, designated DBS-9, was installed in the fresh water playa lake located just north of the brine well (Figure 4). Soil samples were collected at 10-foot intervals during drilling for laboratory analysis as described above. Soil cuttings and split spoon samples were used during drilling for lithologic description. The soil boring log showing the subsurface geology is provided in Appendix A. Laboratory results of soil samples collected during drilling are summarized in Table 1. Complete laboratory reports for the soil samples are provided in Appendix B.

#### 2.2 Groundwater Investigation

The groundwater investigation included the installation of nine monitor wells and two nested wells, and the collection of groundwater samples for laboratory analysis. The wells were completed at predetermined locations, as specified in Sections 3.1 and 3.2 of the Plan (DBS&A, 2008). The locations specified in the Plan were selected to delineate the extent of the chloride groundwater plume in the vicinity of the brine pond, the cross-gradient extent of the chloride plume resulting from the 1999 release at the brine well, and to determine if groundwater beneath the playa was impacted as a result of the 2002 and 2005 releases. All of the wells



were constructed in accordance with the New Mexico Environment Department Ground Water Quality Bureau Monitoring Well Construction Guidelines, Revision 1.0, dated July 2008.

#### 2.2.1 Monitor Well Installation

#### 2.2.1.1 Brine Pond

Soil borings DBS-1 through DBS-5 were advanced to approximately 20 ft below the water table and completed as 2-inch-diameter groundwater monitor wells (Figure 5). The wells were installed in upgradient, downgradient, and cross-gradient locations to delineate the extent of the chloride plume as follows:

- DBS-1: approximately 200 feet downgradient (southeast) of the brine pond
- DBS-2: approximately 200 feet cross-gradient (east) of the brine pond
- DBS-3: approximately 200 feet cross-gradient (south-southwest) of the brine pond
- DBS-4: approximately 400 feet downgradient (southeast) of the brine pond
- DBS-5: approximately 300 feet upgradient (northwest) of the brine pond

The wells were constructed of 20 feet of 2-inch-diameter, 0.020-inch slot, flush-threaded, machine-cut, Schedule 40 (SCH 40) polyvinyl chloride (PVC) well screen with a 2-foot sump. Blank 2-inch-diameter, SCH 40 PVC casing extended to approximately 2.5 feet above the ground surface. The screens were placed so that approximately five feet would be above the water table and 15 feet below. The filter pack consisted of 8-16 silica sand, placed by a tremie pipe, extending from the bottom of the boring to approximately 3 feet above the well screen. A 3-foot-thick bentonite pellet seal (hydrated) was then placed above the sand pack, and the annular space above the bentonite seal was filled with a cement/bentonite grout to the surface. The wells were completed aboveground with a protective steel well vault and a 3-foot by 3-foot by 4-inch-thick concrete pad and bollards at each corner. The well construction diagrams for DBS-1 through DBS-5 are provided in Appendix A.

Nested well NW-1 was drilled to the red beds (base of the Ogallala Formation) approximately 150 feet downgradient (southeast) of the former brine pond (Figure 5). NW-1 was installed to determine if a chloride density gradient exists with depth in the saturated zone. The well will enable DBS&A to evaluate vertical hydraulic and concentration gradients at a single location to



ensure that future recovery wells are screened properly. The well consists of three 2-inch-diameter monitor wells installed in one 10-inch-diameter soil boring with separate shallow (s), intermediate (m), and deep (d) screens. The screens are separated from each other in the boring by a bentonite seal.

The deep well consists of 20 feet of 2-inch-diameter 0.020-inch slot, flush-threaded, machine-cut, SCH 40 PVC well screen with a 2-foot sump. Blank 2-inch SCH 40 PVC casing extends to approximately 2.5 feet above the ground surface. The screen was placed from approximately 149 ft bgs to 169 ft bgs. The filter pack (8-16 silica sand) was placed by a tremie pipe from the bottom of the boring to approximately 4 feet above the top of the screen. A bentonite pellet seal (hydrated) was then placed above the sand pack.

The middle well consists of 20 feet of 2-inch-diameter 0.020-inch slot, flush-threaded, machine-cut, SCH 40 PVC well screen with a 2-foot sump. Blank 2-inch SCH 40 PVC casing extends to approximately 2.5 feet above the ground surface. The screen was placed from approximately 99 ft bgs to 119 ft bgs. The filter pack (8-16 silica sand) was placed by a tremie pipe from the bottom of the boring to approximately 4 feet above the top of the screen. A bentonite pellet seal (hydrated) was then placed above the sand pack.

The shallow well consists of 20 feet of 2-inch-diameter 0.020-inch slot, flush-threaded, machine-cut, SCH 40 PVC well screen with a 2-foot sump. The well is screened across the water table from approximately 52 ft bgs to 72 ft bgs. Blank 2-inch SCH 40 PVC casing extends to approximately 2.5 feet above the ground surface. The filter pack (8-16 silica sand) was placed by a tremie pipe from the bottom of the boring to approximately 2 feet above the top of the screen. A bentonite pellet seal (hydrated) was then placed above the sand pack. The remaining open annular space above the bentonite seal was then filled with a cement/bentonite grout to the surface.

The well was completed aboveground with a protective steel well vault and a 3-foot by 3-foot by 4-inch-thick concrete pad and bollards at each corner. The well construction diagram for NW-1 is provided in Appendix A.



#### 2.2.1.2 Brine Well

Soil borings DBS-6 through DBS-8 were advanced to approximately 20 ft below the water table and completed as 2-inch-diameter groundwater monitor wells (Figure 6). The wells were installed to delineate the cross-gradient extent of the chloride plume as follows:

- DBS-6: approximately 300 feet north of existing monitor well MW-4
- DBS-7: approximately 200 feet south of existing monitor well MW-4
- DBS-8: approximately 300 feet southwest of existing monitor well MW-4

The wells were constructed as described above in Section 2.2.1.1 for wells DBS-1 through DBS-5. The well construction diagrams for DBS-6 through DBS-8 are provided in Appendix A.

Nested well NW-2 was drilled to the red beds approximately 20 feet upgradient (northwest) of monitor well MW-4 (Figure 6). NW-2, like NW-1, was installed to determine if a chloride density gradient exists with depth in the saturated zone. The well was constructed in similar manner to NW-1 with three 2-inch-diameter monitor wells installed in one 10-inch-diameter soil boring with separate shallow (s), intermediate (m), and deep (d) screens. The well was completed aboveground with a protective steel well vault and a 3-foot by 3-foot by 4-inch-thick concrete pad and bollards at each corner. The well construction diagram for NW-2 is provided in Appendix A.

#### 2.2.1.3 Playa Lake

Soil boring DBS-9 was advanced to approximately 20 ft below the water table and completed as 2-inch-diameter groundwater monitor well (Figure 6). The well was installed to determine if groundwater beneath the playa was impacted from releases which occurred in the past. The well was constructed as described above in Section 2.2.1.1. The well construction diagram for DBS-9 is provided in Appendix A.

After completion, each of the newly installed monitor wells was developed by pumping until temperature, pH, and conductivity stabilized and turbidity was reduced to the extent practicable (Appendix C).

#### 2.2.2 Survey

After drilling and installation of the monitor wells was completed, a survey was completed. Each of the newly installed monitor wells, as well as the existing monitor wells, was surveyed by

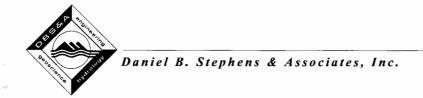


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Pettigrew & Associates of Hobbs, New Mexico, a licensed New Mexico land surveyor. The top of casing elevations of each of the wells was surveyed to a North American Vertical Datum, 1988 (NAVD88), and the x-y coordinates of each well was surveyed to a North American Datum, 1983 (NAD83) in a state plane coordinate system. Survey results are provided in Appendix D.

#### 2.2.3 Groundwater Sampling

Groundwater samples were collected from each of the newly installed monitor wells and the existing monitor wells for laboratory analysis. Before sampling, fluid levels in each well were gauged using a decontaminated electronic water level meter. After gauging, each well was purged of a minimum of three casing volumes using a pump. Field parameters of pH, specific conductivity, and temperature were monitored during purging to ensure that stagnant water was removed from the well (Appendix C). Groundwater samples were then collected from each well and transferred into laboratory-prepared sample containers. Immediately after the samples were collected, they were placed in an ice-filled cooler and remained on ice until they were delivered to the laboratory for analysis. Chain-of-custody documentation accompanied the samples at all times.



## 3. Analytical Program

The analytical program included analysis of soil and groundwater media. Samples were submitted to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis. Copies of the soil and groundwater laboratory analytical reports are included in Appendix B.

# 3.1 Soil Analysis

Soil samples were analyzed for chloride using U.S. Environmental Protection Agency (EPA) method 300.0. A total of 89 soil samples were submitted for laboratory analysis from the eleven soil borings installed during the field investigation. In addition, the samples collected from boring DBS-9 were also analyzed for total petroleum hydrocarbons (TPH) in accordance with EPA method 418.1.

# 3.2 Groundwater Analysis

Groundwater samples were analyzed for chloride using EPA method 300.0. In addition, samples collected from boring DBS-9 only were analyzed for TPH (gasoline range organics [GRO], diesel range organics [DRO], and motor oil range organics [MRO]) in accordance with EPA method 8015B. A total of 21 groundwater samples were submitted for laboratory analysis. Nine samples from newly installed monitor wells DBS-1 through DBS-9, six from the two newly installed nested wells (NW-1 [s], NW-1 [m], NM-1 [d], NW-2 [s], NW-2 [m], NW-2 [d]), and six from the existing wells (PMW-1, MW-2, MW-3, MW-4, MW-5, and MW-6).



#### 4. Results

#### 4.1 Soil

A summary of chloride concentrations with depth in the soil borings installed during the field investigation is provided in Table 1. TPH results for boring DBS-9 are provided in Table 2. The soil analytical results are also shown graphically on Figures 3 and 4.

#### 4.1.1 Brine Pond

Of the six borings installed at the brine pond, only three borings contained concentrations of chloride in excess of the OCD standard of 500 mg/kg.. In boring DBS-1, located approximately 200 ft southeast of the former brine pond, samples collected from the 10-12 ft bgs and 30-32 ft bgs intervals yielded chloride concentrations of 3,600 and 1,400 mg/kg, respectively. Below 32 ft bgs, chloride concentrations decreased from 380 to 18 mg/kg (Table 1, Figure 3).

In boring DBS-2, located approximately 200 feet east of the former brine loading/unloading area, samples collected from the 0-2 ft bgs and 10-12 ft bgs intervals yielded chloride concentrations of 2,000 and 940 mg/kg, respectively. Below 12 ft bgs, chloride concentrations decreased from 42 to 5.8 mg/kg (Table 1, Figure 3).

Soil boring NW-1, located approximately 70 ft southeast of the former brine pond, showed chloride concentrations exceeding the OCD standard of 500 mg/kg in all of the samples collected from the boring. Measured chloride concentrations ranged from 800 to 3,600 mg/kg (Table 1, Figure 3). No notable decrease in chloride concentration occurred with depth.

#### 4.1.2 Brine Well

No chloride concentrations in the soil samples collected from borings DBS-6, DBS-7, DBS-8, and NW-2, installed downgradient of the brine well, exceeded the OCD standard of 500 mg/kg (Table 1, Figure 4). Measured chloride concentrations ranged from 1.8 to 240 mg/kg.



#### 4.1.3 Playa Lake

Soil samples collected from boring DBS-9 showed elevated chloride concentrations in three samples. In samples collected from the 10-12 ft bgs, 20-22 ft bgs, and 40-42 ft bgs intervals, measured chloride concentrations were 4,100, 560, and 550 mg/kg, respectively (Table 1, Figure 4). Below 42 ft bgs, chloride concentrations decreased from 160 to 9.7 mg/kg.

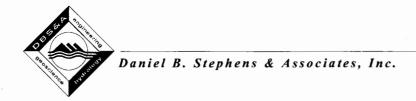
Soil samples from boring DBS-9 were also analyzed for TPH. In samples collected from the 10-12 ft bgs, 20-22 ft bgs, 30-32 ft bgs, 40-42 ft bgs, and 50-52 ft bgs intervals, measured TPH concentrations were 36, 220, 64, 40, and 82 mg/kg, respectively (Table 2). Below 52 ft bgs, TPH concentrations were below the laboratory reporting limit.

#### 4.2 Groundwater

Table 3 provides water level measurements and corresponding groundwater elevations for each of the newly installed and existing monitor wells. These data were used to generate the potentiometric surface maps for the brine pond and brine well/playa lake areas shown on Figures 7 and 8. The groundwater data were combined for the two areas above and a Site potentiometric surface map was generated (Figure 9). The direction of groundwater flow beneath the Site is to the southeast; the average hydraulic gradient beneath the Site is relatively flat at 0.004 foot per foot.

Groundwater analytical results for chloride are provided in Tables 4 and 5 and shown graphically on Figures 5 and 6. Of the 21 groundwater samples submitted for chloride analysis, 12 samples exceeded the NMWQCC Standard of 250 mg/L for chloride. The samples exceeding the standard were: DBS-1 (320 mg/L), DBS-6 (380 mg/L), DBS-7 (570 mg/L), NW-1(s) (630 mg/L), NW-2(s) (410 mg/L), NW-2(m) (570 mg/L), NW-2(d) (4,700 mg/L), PMW-1 (11,000 mg/L), MW-2 (1,200 mg/L), MW-3 (17,000 mg/L), MW-4 (6,600 mg/L), and MW-5 (1,300 mg/L).

Groundwater samples submitted from DBS-9 for TPH GRO, DRO, and MRO analysis were all below the laboratory reporting limits.



# 5. Summary and Conclusions

#### 5.1 Site Conditions

#### 5.1.1 Soil

Chloride concentrations in soil were generally below the OCD standard of 500 mg/kg. Three exceptions were noted at the brine pond in borings DBS-1, DBS-2, and NW-1. All three of these borings contained chloride concentrations in excess of 500 mg/kg in two or more samples. The chloride concentrations exceeding 500 mg/kg in borings DBS-1 and DBS-2 were limited to the upper 32 ft in DBS-1 and the upper 12 ft in DBS-2. The chloride concentrations in NW-1, however, exceeded 500 mg/kg in all of the soil samples submitted from the boring.

TPH results from soil samples submitted from boring DBS-9 showed concentrations ranging from 36 to 220 mg/kg from 10 ft bgs to 52 ft bgs. Below 52 ft bgs, TPH concentrations were below the laboratory reporting limit. The sample collected from the 20-22 ft bgs interval exceeded the New Mexico Environment Petroleum Storage Tank Bureau action level of 100 mg/kg.

#### 5.1.2 Groundwater

The chloride groundwater plume was delineated during the field investigation at the brine pond and brine well areas. At the brine pond, the highest chloride concentration in groundwater was encountered in monitor well PMW-1 11,000 mg/L, just downgradient of the former brine pond and brine loading/unloading area. Downgradient of PMW-1, the chloride concentration decreases two orders of magnitude in NW-1(s) (630 mg/L) and decreases by half again in DBS-1 (320 mg/L). The downgradient extent of the plume is bounded by monitor well DBS-4 (38 mg/L) and the cross-gradient extent is bounded by monitor wells DBS-2 (14 mg/L) and DBS-3 (36 mg/L). The upgradient monitor well contained a chloride concentration of 65 mg/L.

At the brine well location, the highest chloride concentration (17,000 mg/L) in groundwater was encountered in monitor well MW-3 (17,000 mg/L), located approximately 550 ft downgradient of the brine well. Downgradient of MW-4, the chloride concentration decreases one order of



magnitude in MW-4 (6,600 mg/L) and continues to decrease further downgradient in MW-5 (1,300 mg/L) and DBS-7 (570 mg/L). The downgradient extent of the plume was not delineated, as the farthest downgradient monitor wells, MW-5 and MW-7, contain chloride concentrations exceeding the NMWQCC standard of 250 mg/L. The cross-gradient extent of the plume was bounded to the south by monitor well DBS-8 (58 mg/L), while the cross-gradient extent of the plume was not defined to the north by DBS-6 (380 mg/L).

The groundwater sample collected from DBS-9 located in the playa was below the NMWQCC standard for chloride (210 mg/L), and below the laboratory reporting limits for TPH. GRO, DRO, and MRO.

#### 5.2 Conclusions

Overall, the extent of the chloride groundwater plumes have been delineated at the brine pond, brine well, and playa. Although the chloride plume at the brine well has not been definitively defined by the field investigation, the chloride concentrations in the farthest downgradient and northernmost cross-gradient wells are low enough to suggest that the wells were installed in the outer fringe of the plume.

DBS&A recommends that recovery wells be installed at the brine pond and the brine well areas and that pump tests be performed on the wells so that a remedial approach for the Site can be developed.



#### References

- DBS&A. 2008. Comprehensive Site Plan, Salty Dog Brine Station, Lea County, New Mexico. Prepared for the New Mexico Energy, Minerals, and Natural Resources Department, Oil Conservation Division, Environmental Bureau, Santa Fe, New Mexico. September 5, 2008.
- New Mexico Energy, Minerals and Natural Resources Department. 2008. Notification of Compliance/Enforcement Action-Administrative Compliance Order, ACO 2008-02. Directed to Pieter Bergstein d/b/a Salty Dog, Inc. (OGRID 184208). May 20, 2008.
- State of New Mexico New Oil Conservation Division, Constituent Agency of the Water Quality Control Commission In the Matter of Pieter Bergstein d/b/a "Salty Dog, Inc., (OGRID 184208). 2008. Settlement Agreement and Stipulated Revised Final Order NM-OCD 2008-2A. August 6, 2008.

Figures

Explanation

PROJECTS/ES08.0118.01_SALTY_DOG_INC/GIS/MXDS/COMPREHENSIVE_SITE_PLAN/FIG01-SITE_LOCATION_MAP.MXD 908190

Water supply well

Source: RGIS aerial photograph dated July 2005



SALTY DOG BRINE STATION
Site Location Map

MW-4 Well designation

5,730 Chloride concentration (mg/L)

- Existing monitor well
- Water supply well

Chloride concentration contour (dashed where inferred)

Note: Bold denotes concentration that exceeds the NMWQCC standard

Daniel B. Stephens & Associates, Inc., 07/09/2008 JN ES08.0118.01

SALTY DOG BRINE STATION **Chloride Concentrations** in Groundwater

Source: RGIS aerial photograph

dated July 2005

Figure 2

DBS-2 Well designation

DOG INC/GIS/MXDS/ANALYTICAL RESULTS/CL_SO_20090408_BRINE_STATION.MXD 908190

2,000 Chloride concentration (mg/kg)

(0-2) Sample depth (ft bgs)

Monitor well location

**BOLD** indicates concentration equal to or greater than the applicable OCD standard.

SALTY DOG BRINE STATION

**Brine Pond Area Chloride Concentrations in Soil** March 23, 24, 25, and 31, 2009



Explanation

INC/GIS/MXDS/ANALYTICAL RESULTS/CL SO 20090408

DBS-9 Well designation

4,100 Chloride concentration (mg/kg)

(0-2) Sample depth (ft bgs)

Monitor well location

**BOLD** indicates concentration equal to or greater than the applicable OCD standard.

Source: Google Earth aerial photograph dated September 2002

SALTY DOG BRINE STATION

Playa Lake and Brine Well Area Chloride Concentrations in Soil March 26, 27, 30, and April 1, 2009



PROJECTS/ES08.0118.01_SALTY_DOG_INC/GISMXDS/ANALYTICAL_RESULTS/CL_GW_20090408_BRINE_STATION.MXD 908190

DBS-1 Well designation

320 Chloride concentration (mg/L)

Monitor well location

**BOLD** indicates concentration equal to or greater than the NMWQCC standard.

Source: Google Earth aerial photograph dated September 2002

SALTY DOG BRINE STATION

Brine Pond Area Chloride Concentrations in Groundwater April 8, 2009



Daniel B. Stephens & Associates, Inc. JN ES08.0118.01

PROJECTS/ES08.0118.01 SALTY_DOG_INC/GISMXDS/ANALYTICAL_RESULTS/CL_GW_20090408_BRINE_WELL.MXD 90819

MW-2 Well designation Chloride concentration (mg/L) 1,200

Monitor well location

BOLD indicates concentration equal to or greater than the NMWQCC standard.

dated September 2002

SALTY DOG BRINE STATION

Playa Lake and Brine Well Area **Chloride Concentrations in Groundwater** April 7 and 8, 2009



**Explanation** 

20090408 BRINE STATION MXD 908190

DBS-1 Well designation

3754.71 Groundwater elevation, ft msl

Groundwater elevation (ft msl)

Potentiometric surface elevation contour (ft msl)

dated September 2002

SALTY DOG BRINE STATION

**Brine Pond Area Potentiometric Surface Elevations** April 8, 2009



Daniel B. Stephens & Associates, Inc. JN ES08.0118.01

**Explanation** 

PROJECTS/ES08,0118.01_SALTY_DOG_INC/GIS/MXDS/FLUID_LEVELS/GWE_20090408_BRINE_WELL.MXD 900256

MW-2 Well designation 3751.03 Groundwater elevation, ft msl

Groundwater elevation (ft msl)

Potentiometric surface elevation contour (ft msl)

Source: Google Earth aerial photograph dated September 2002

SALTY DOG BRINE STATION

Playa Lake and Brine Well Area Potentiometric Surface Elevations April 7 and 8, 2009



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05/20/2009

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1N ES08.0118.01

DBS-6 Well designation

3749.90 Groundwater elevation, ft msl

Groundwater elevation (ft msl)

Potentiometric surface elevation contour (ft msl)

dated September 2002

SALTY DOG BRINE STATION

**Potentiometric Surface Elevations** April 7 and 8, 2009

**Tables** 

Table 1. Summary of Chloride Soil Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 1 of 3

	.,,	Depth Interval	Chloride	
Monitor Well	Sample Date	(ft bgs)	Concentration (mg/kg) a	
Oil Conservation	500			
DBS-1				
	00/20/00	20-22	<b>3600</b> 240	
		30-32	1400	
		50-52	380	
		60-62	160	
		70-72	230	
		80-82	18	
DBS-2	03/24/09	0-2	2000	
		10-12	940	
		20-22	39	
		40-42	42	
		50-52	10	
		60-62	7.9	
		70-72	7.7	
		80-82	5.8	
DBS-3	03/24/09	0-2	170	
		10-12	58	
		20-22	41	
		30-32	44	
		40-42	35	
		50-52	3.4	
		60-62	8.5	
		80-82	6.6	
DBS-4	03/25/09	0-2	18	
		10-12	54	
		20-22	39	
		30-32	19	
		40-42	55	
		50-52	75	
		60-62	44	
		70-72	9.7	
		80-82	6.9	
DBS-5	03/23/09	0-2	19	
		10-12	25	

**Bold** indicates concentrations that exceed the applicable standard.

ft bgs = Feet below ground surface

mg/kg = Milligrams per kilogram

^a All samples analyzed in accordance with EPA method 300.0, unless otherwise noted.

^b OCD standard for a site with groundwater less than 100 feet below ground surface.

Table 1. Summary of Chloride Soil Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 2 of 3

		Depth Interval	Chloride	
Monitor Well	Sample Date	(ft bgs)	Concentration (mg/kg) a	
Oil Conservation	Oil Conservation Division Soil Standard ^b			
DBS-5 (cont.)				
, ,		40-42	8.5	
		50-52	3.1	
		60-62	18	
:		70-72	12	
		80-82	7.5	
DBS-6	03/26/09	0-2	4.7	
		10-12	6.5	
		20-22	6.3	
		30-32	31	
		40-42	4.4	
		50-52	3.8	
		60-62	30	
		70-72	63	
		80-82	17	
DBS-7	03/26/09	0-2	16	
		10-12	9.6	
1		20-22	9.8	
		30-32	13	
		40-42	16	
İ		50-52	7.9	
		60-62	33	
		70-72	83	
		80-82	130	
DBS-8	03/26/09	0-2	9.5	
1		10-12	8.8	
		20-22	7.3	
		30-32	47	
		40-42	20	
		50-52	13	
		60-62	9.3	
		70-72	8.7	
		80-82	11	
DBS-9	03/30/09	0-2	99	

**Bold** indicates concentrations that exceed the applicable standard.

ft bgs = Feet below ground surface

mg/kg = Milligrams per kilogram

 $^{^{\}rm a}$  All samples analyzed in accordance with EPA method 300.0, unless otherwise noted.

^b OCD standard for a site with groundwater less than 100 feet below ground surface.



Table 1. Summary of Chloride Soil Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 3 of 3

	-	Depth Interval	Chloride
Monitor Well	Sample Date	(ft bgs)	Concentration (mg/kg) a
Oil Conservation	n Division Soil S	tandard ^b	500
DBS-9 (cont.)	03/30/09	10-12	4100
		20-22	560
		30-32	480
		40-42	550
		50-52	160
		60-62	93
		70-72	65
			9.7
DBS NW-1	03/31/09	10-12	1300
		20-22	3600
		30-32	800
		40-42	2500
		50-52	2400
		60-62	1800
DBS NW-2	04/01/09	0-2	12
		10-12	6.2
		20-22	12
		30-32	16
		40-42	1.8
		50-52	240
		60-62	47

**Bold** indicates concentrations that exceed the applicable standard.

ft bgs = Feet below ground surface

mg/kg = Milligrams per kilogram

^a All samples analyzed in accordance with EPA method 300.0, unless otherwise noted.

^b OCD standard for a site with groundwater less than 100 feet below ground surface.



Table 2. Summary of DBS-9 Total Petroleum Hydrocarbons Soil Analytical Data Salty Dog Brine Station, Lea County, New Mexico
Page 1 of 1

		Depth Interval	TPH
Monitor Well	Sample Date	(ft bgs)	Concentration (mg/kg) a
NMED F	STB Action Lev	el	100
DBS-9	03/30/09	0-2	<6.0
		10-12	36
		20-22	220
		30-32	64
		40-42	40
		50-52	82
•		60-62	<20
		70-72	<20
		80-82	<20

Bold indicates concentrations that exceed the NMED PSTB action level.

^a All samples analyzed in accordance with EPA method 418.1

NMED PSTB = New Mexico Environment Department Petroleum Storage Tank Bureau

TPH = Total petroleum hydrocarbons ft bgs = Feet below ground surface mg/kg = Milligrams per kilogram



Table 3. Summary of Historical Fluid Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 1 of 1

Monitor Well	Screen Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	asing vation ^a Date		Groundwater Elevation (ft msl)
DBS-1	56.0-76.0	3817.09	04/08/09	62.38	3754.71
DBS-2	58.0-78.0	3820.50	04/08/09	65.45	3755.05
DBS-3	56.0-76.72	3816.66	04/08/09	60.67	3755.99
DBS-4	56.0-76.0	3820.37	04/08/09	66.27	3754.10
DBS-5	56.9-76.9	3820.37	04/08/09	62.99	3757.67
DBS-6	56.7-76.7	3812.65	04/07/09	62.75	3749.90
DBS-7	55.1-75.1	3810.21	04/07/09	61.74	3748.47
DBS-8	55.2-75.2	3810.70	04/07/09	61.20	3749.50
DBS-9	48.0-68.0	3806.26	04/08/09	53.93	3752.33
NW-1(s)	52.95-72.95	3817.33	04/08/09	62.35	3754.98
NW-1 (m)	99.31-119.31	3817.35	04/08/09	62.25	3755.10
NW-1 (d)	149.45-169.45	3817.35	04/08/09	62.04	3755.31
NW-2 (s)	53.35-73.35	3812.50	04/08/09	63.08	3749.42
NW-2 (m)	93.72-113.72	3812.45	04/08/09	63.27	3749.18
NW-2 (d)	126.87-146.87	3812.46	04/08/09	66.41	3746.05
PMW-1	63-78	3821.17	06/23/08	67.51	3753.66
			04/08/09	65.97	3755.20
MW-1	120-140	NA	06/23/08	59.90	NA
MW-2	127-147	3812.68	06/23/08	61.42	3751.26
			04/07/09	61.65	3751.03
MW-3	NA	3812.50	06/23/08	62.06	3750.44
			04/07/09	62.02	3750.03
MW-4	111-131	3811.33	06/23/08	62.12	3749.21
			04/07/09	62.51	3748.82
MW-5	112-132	3808.96	06/23/08	60.60	3748.36
			04/07/09	60.79	3748.17
MW-6	NA	3810.17	06/23/08	62.17	3748.00
			04/07/09	62.41	3747.76

^a Top of casing elevations surveyed by Pettigrew & Assoc. on May 28, 2009.

ft bgs = Feet below ground surface

ft btoc = Feet below top of casing

ft msl = Feet above mean sea level

NA = Not available

Table 4. Summary of Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 1 of 2

Monitor Well	Date	Chloride Concentration (mg/L) ^a
New Mexico Water Quality Control	250	
DBS-1	04/08/09	320
DBS-2	04/08/09	14
DBS-3	04/08/09	36
DBS-4	04/08/09	38
DBS-5	04/08/09	65
DBS-6	04/07/09	380
DBS-7	04/07/08	570
DBS-8	04/07/09	58
DBS-9	04/08/09	210
NW-1 (s)	04/08/09	630
NW-1 (m)	04/08/09	57
NW-1 (d)	04/08/09	38
NW-2 (s)	04/08/09	410
NW-2 (m)	04/08/09	570
NW-2 (d)	04/08/09	4,700
Brine Pit Well (PMW-1)	02/27/08	9,500 b
	05/30/08	8,600 b
	06/23/08	12,700
	04/08/09	11,000
MW-1	05/30/08	75 ^b
	06/23/08	243
MW-2	02/27/08	120 ^b
	05/30/08	80 b
	06/23/08	1,480
	04/07/09	1,200
MW-3	02/27/08	348 ^b
	05/30/08	360 b
	06/23/08	1,090
	04/07/09	17,000
MW-4	02/27/08	476 b
	05/30/08	512 ^b
	06/23/08	5,730

**Bold** indicates concentrations that exceed the applicable standard.

mg/L = Milligrams per liter

^a All samples analyzed in accordance to EPA method 300.0, unless otherwise noted.

^b Samples analyzed in accordance to Standard Method 4500-Cl B.



# Table 4. Summary of Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 2 of 2

Monitor Well	Date	Chloride Concentration (mg/L) ^a
New Mexico Water Quality Control (		250
MW-4 (cont.)	04/07/09	6,600
MW-5	02/27/08	1,280 ^b
	05/30/08	1,220 ^b
	06/23/08	1,260
	04/07/09	1,300
MW-6	02/27/08	32 ^b
	05/30/08	36 ^b
	06/23/08	31.4
	04/07/09	25
Ranch Headquarters Water Supply Well	06/23/08	35.4
Brine Station Fresh Water Supply Well	02/27/08	630 b
	05/30/08	590 b
	06/23/08	650

**Bold** indicates concentrations that exceed the applicable standard.

^a All samples analyzed in accordance with EPA method 300.0, unless otherwise noted.

^b Samples analyzed in accordance with Standard Method 4500-Cl B. mg/L = Milligrams per liter



#### Table 5. Summary of DBS-9 Total Petroleum Hydrocarbons Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 1 of 1

TPH	Sample Date	Concentration (mg/L) ^a
NMWQC	C Standard	None
DRO	04/08/09	<1.0
MRO	04/08/09	<5.0
GRO	04/08/09	<0.05

^a All samples analyzed in accordance with EPA method 8015B.

TPH = Total petroleum hydrocarbon DRO = Diesel Range Organics
mg/L = Milligrams per liter MRO = Motor Oil Range Organics
NMWQCC = New Mexico Water Quality Control Commission GRO = Gasoline Range Organics

**Appendices** 

Appendix A

Soil Boring Logs and Well Completion Diagrams

#### PO Box 2304 Roswell, NM 88202-2304

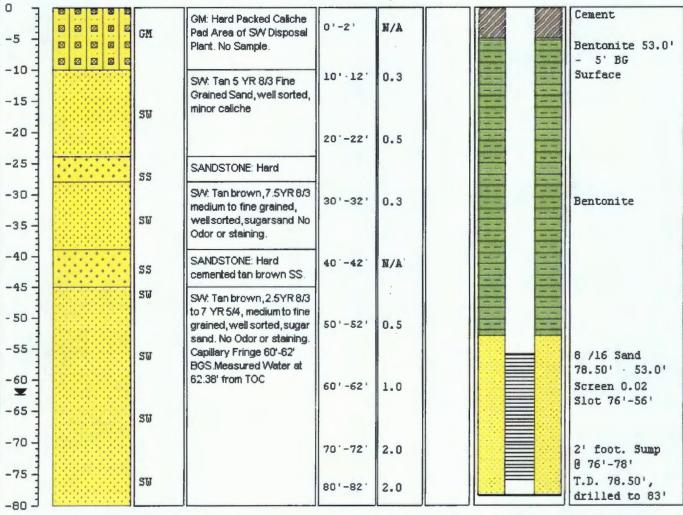
cmbenviro@dfn.com

(505) 622-2012 Fax (505) 625-0538

### FIELD BOREHOLE LOG

BOREHOLE NO.: DBS-1
TOTAL DEPTH: 78.50'

003/023-0330			
IFORMATION	DRILLING INFORMATION		
ES08.0118.01.00004	DRILLING CO.:	Peterson Drilling Co.	
Lea Co., NM	DRILLER:	Charles Johnson	
Salty Dog	RIG TYPE	Ingersoll-Rand TH-60	
CM Barnhill, PG	METHOD OF DRILLING:	Air Rotary 6 1/4"	
Mike McVey, PG	SAMPLING METHODS:	Split Spoon	
03/25/09	HAMMER WT/DROP	N/A	
NOTES. Split Spoon Pushed by TH-60 Drilling Rig.		Page 1 of 1	
SCS SOIL DESCRIPTION		ORING WELL DESCRIPTION	
GM: Hard Packed Caliche Pad Area of SW Disposal Plant. No Sample.	0'-2' N/A	Bentonite 53.0' - 5' BG Surface	
1	FORMATION  ES08.0118.01.00004  Lea Co., NMI Salty Dog  CM Barnhill, PG Mike McVey, PG 03/25/09  Ished by TH-60 Drilling Rig.  SCS SOIL DESCRIPTION  GM: Hard Packed Caliche Pad Area of SW Disposal Plant. No Sample.	FORMATION  FS08.0118.01.00004  Lea Co., NIM  Salty Dog  CM Barnhill, PG  Mike McVey, PG  03/25/09  Address of SW Disposal Plant. No Sample.  DRILLING CO.:  DRILLER:  RIG TYPE:  METHOD OF DRILLING:  SAMPLING METHODS:  HAMMER WT /DROP  Water level during  Water level in com  Rec. PPM Feet. PPM COI	



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# FIELD BOREHOLE LOG

RODEHOLE NO : DRC 2

BUKE	HULE NU.	DB9-2
TOTAL	DEPTH:	79.801

	PROJECT	INFOR	RMATION			DRILLI	NG INFORMAT	TON
PROJE	PROJECT: ES08.0118.01.00004		DRI	LLING C	O.:	Peterson	Drilling Co.	
SITE LO	CATION:	Lea Co., NM		DRI	DRILLER Char		Charles .	Johnson
JOB NO	) .	Salt	y Dog	RIG	TYPE:		Ingersol	-Rand TH-60
LOGGE	D BY.	CIM	I Barnhill, PG	MET	HOD C	F DRILL	JNG. Air Rota	ry 6 1/4"
PROJE	CT MANAGE	R' Mil	ke McVey, PG	SAM	IPLING	METHO	DS: Split Spo	on
DATES	DRILLED:	03/2	24/09	HAM	MER W	/T./DRC	P N/A	
NOTES	Split Spoor	n Pushed	by TH-60 Drilling Rig.				lunng drilling n completed well	Page 1 of 1
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Rec / feet.	PPM TPH	BORING COMPLETION	WÉLL DESCRIPTION
0 7					1	1		
-5		GM	GM: Brown Silt, Sand,Calichemixture.Hard	0'-2'	0.3			Cement
1			Caprock					Bentonite 52.8
-10-			SW: Tan 5 YR 8/3 Fine	10'-12'	0.2		Callery Valley Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control	Surface
-15		SU	Grained Sand, well sorted, minor caliche					
-20		200		20'-22'	0.3		Chart allow and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a chart and a	
-25					0.0,		control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control contro	
-30		SS	SANDSTONE: Hard cemented tan brown SS.					
1		~~	Fn.to med.gr.,well sorted.	30'-32'	N/A			Bentonite
-35-		SS						
-40				40'-42'	Grab			
-45		SW	SW: Tan brown, 7.5YR 6/3					
-50		SS SW	SANDSTONE: Hard SW: Tan brown, 7.5 YR				Angle - some Conf. make	
3			6/3, medium to fine grained, well sorted, sugar	50'-52'	0.5			
-55 -		នឃ	sand. No Odor or staining.					8 /16 Sand
-60			Capillary Fringe 60'-62' BGS Measured Water at	60'-62'	2.0			79.80' - 52.8' Screen 0.02
- 25		នម	65.45' from TOC					Slot 78'-58'
-70 -					1			
,				70'-72'	2.0			2' foot. Sump @ 78'-80'
-75 -		SW		80,-82,	2.0			T.D. 79 80', drilled to 83'
ا لـ 80-	1 1 1 1 1 1 1 1 1 1 1 1							drilled to 83.

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cmben

(505) 6

# FIELD BOREHOLE LOG

BOREHOLE NO: DBS-3

nviso@dfn.com	TOTAL DEPTH: 78.72'
622-2012 Fax (505) 625-0538	
PROJECT INFORMATION	DRILLING INFORMATION

	PROJEC [*]	TINFOR	RMATION			DRILLIN	IG INFORMAT	ΠON
PROJE	PROJECT: ES08.0118.01.00004				LLING C	00.:	Peterson	Drilling Co.
SITE L	OCATION:	Lea	Co., NM	DRI	LLER		Charles	Johnson
JOB NO	O.:	Salt	y Dog	RIG	TYPE:		Ingersol	l-Rand TH-60
LOGGE	ED BY:	CIM	I Barnhill, PG	MET	HOD C	F DRILL	ING: Air Rota	ry 6 1/4"
PROJE	ECT MANAGE	R: Mil	ke McVey, PG	SAN	IPLING	METHO	DS: Split Spo	on
DATES	DRILLED:	03/2	24/09	HAN	MER V	/T/DRO	P N/A	
NOTES	S: Split Spoor	n Pushed	by TH-60 Drilling Rig.				luring drilling n completed well	Page 1 of 1
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Rec / feet.	PPM TPH	BORING COMPLETION	WELL DESCRIPTION
0 ¬								
-5		GM	GM: Brown Silt, 7.5YR 4/4,Sand,Caliche mixture. Hard Caprock	0'-2'	0.3			Bentonite 53.0
-10 -			SW: Tan 5 YR 8/3 Fine Grained Sand, well sorted, minor caliche	10,-12,	0.3			- 5' BG Surface
-20		SU	SANDSTONE: Hard	20'-22'	0.4			
-25		55	cemented tan brown SS. Fn.to med. gr., well sorted. SW: Tan Fine grained				gent table	
-30 -		SW	sand, well sorted, 7.5YR 8/2 SANDSTONE: Hard	30'-32'	0.6			Bentonite
-40		su	Sandstone Layer SW: Tan brown, 7.5 YR 6/3, medium to fine	40'-42'	0.6			
-45		SW	grained, well sorted, sugar sand. No Odor or staining. Capillary Fringe 60'-62'				Constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the consti	
-50 -		sw	BGS.Measured Water at 60.67' from TOC	50'-52'	1.0.			8 /16 Sand
- 50		200		60'-62'	2.0			78.72' - 53.0' Screen 0.02
-65		SW						Slot 76.72'-56'
-70 - -75 -				70' -72'	N/A			2' foot. Sump @ 76.72'-78.72'
123		នធ		80'-82'	2.0			T.D. 78 72', drilled to 83'

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### FIELD BOREHOLE LOG

BOREHOLE NO.: DBS-4

TOTAL DEPTH: 80.15'

	PROJECT	INFOR	MATION			DRILLIN	IG INFORMAT	TON
PROJE	CT:	ESC	08.0118.01.00004	DRII	LING C	00.:	Peterson	Drilling Co.
SITELO	CATION:	Lea	Co., NM	DRIL	LER:		Charles .	Johnson
JOB NO	).;	Salt	y Dog	RIG	TYPE		Ingersoll	-Rand TH-60
LOGGE	D BY:	CN	Barnhill, PG	MET	HOD C	F DRILL	ING: Air Rota	ry 6 1/4"
PROJE	CT MANAGE	R: Mil	ce McVey, PG	SAM	PLING	METHO	DS. Split Spo	on
DATES	DRILLED:	03/2	25/09	HAM	MER V	/T/DRC	P N/A	
NOTES	Split Spoor	Pushed	by TH-60 Drilling Rig.				uring drilling n completed well	Page 1 of 1
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Rec / feet.	PPM TPH	BORING COMPLETION	WELL DESCRIPTION
-5		GM	GM: Brown Silt, 7.5YR 4/4,Sand,Caliche mixture. Hard Caprock	0'-2'	0.6			Cement  Bentonite 52.4' - 5' BG
-15 -		នម	SW: Tan 5 YR 8/3 Fine Grained Sand, well sorted, minor caliche	10'-12'	N/A			Surface
-25 -		នន	SANDSTONE: Hard cemented tan brown SS. Fn.to med.gr ,well sorted. 5YR 8/4	20 -22	N/A			
-35		SS		30'-32'	N/A		And the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	Bentonite
-40		នឃ	SW: Tan brown, 7.5 YR 6/3, to 8/2 medium to fine grained, well sorted, sugar	40'-42'	0.6			
-45		sw	sand. No Odor or staining. Capillary Fringe 60'-62' BGS.Measured Water at					
-50 -		cn	66.27' from TOC	50'-52'	1.0.			8 /16 Sand
-60		SW		60'-62'	1.0			80.15' - 52.4' Screen 0.02
-65-		sw						Slot 76'-56'
-70 -				70'-72'	1.0			2' foot. Sump
-75 - -80 -		sw		80'-82'	2.0			@ 78'-80' T.D. 80.15', drilled to 83'

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### FIELD BOREHOLE LOG

BOREHOLE NO.: DBS-5

TOTAL DEPTH: 78.90'

4		-						
	PROJECT	INFOR	RMATION			DRILLIN	NG INFORMAT	ΠON
PROJE	CT:	ESC	08.0118.01.00004	DRILLING CO Peterson Drilling Co				Drilling Co.
SITE LO	CATION:	Lea	a Co., NM	DRIL	LER:		Charles .	Johnson
JOB NO	).:	Salt	y Deg	RIG	TYPE:		Ingersol	l-Rand TH-60
LOGGE	D BY:	CIM	I Barnhill, PG	MET	HOD C	F DRILL	JNG: Air Rota	ry 6 1/4"
PROJE	CT MANAGE	R Mil	ke McVey, PG	SAM	PLING	METHO	DS: Split Spo	on
DATES	DRILLED:	03/2	23/09	HAM	MER W	T./DRC	P N/A	
NOTES	Split Spoor	n Pushed	by TH-60 Drilling Rig.				luring drilling n completed well	Page 1 of 1
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Rec. / feet.	PPM TPH	BORING COMPLETION	WELL DESCRIPTION
e o			GM: Tan White Caliche					Cement
-5 -		GM	mixed with brown silt. Caprock material. @ 6'	0'-2'	0.4			Bentonite 53.0'
-10			Sand 7.5YR 8/2					- 5' BG
-15		SW	SW: Tan 5 YR 8/3 Fine Grained Sand, well sorted, minor caliche	10'-12'	0.5			Surface
-20-			SANDSTONE: Hard	20'-22'	0.3		about comple comple committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee committee commit	
-25		\$\$	cemented tan brown SS. Fn to med.gr .well sorted. 5YR 8/4				and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th	
-30 -				30'-32'	N/A		And and and and and and and and and and a	Bentonite
-35-		33					== ==	
-40				40'-42'	0.4			
-45		SW	SW: Tan brown, 2.5YR 8/3 to 7 YR 5/4, medium to fine	10 46	0.4			
-		sv	grained, well sorted, sugar sand. No Odor or staining.					
-50 -			Capillary Fringe 60'-62' BGS.Measured Water at	50'-52'	0.4			
-55		SW	62.99' from TOC					8 /16 Sand
-60				60'-62'	0.5			78.90' · 53.0' Screen 0.02
-65 -					3.3			Slot 76.9'
-70 -		SW		70'-72'	1:0.			56.9'
-75				10 -12	1.0.			2' foot. Sump @ 76.9'-78'.9
1		SW		80'-82'	2.0			T.D. 78 90', drilled to 83'
-80 J	1 5 4 5 4 1 6 4 6 6							4111164 60 03

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### FIELD BOREHOLE LOG

BOREHOLE NO.: DBS-6

TOTAL DEPTH: 78.70'

	PROJECT	INFOR	MATION			DRILLIN	IG INFORMAT	ION
PROJE	CT:	ESC	08.0118.01.00004	DRII	LÌNG C	0.:	Peterson	Drilling Co.
SITE LO	DCATION:	Lea	Co., NM	DRII	LER:		Charles .	Johnson
JOB NO	D.:	Salt	y Dog	RIG	TYPE:		Ingersoll	-Rand TH-60
LOGGE	D BY:	CM	I Barnhill, PG	MET	HOD O	F DRILL	ING: Air Rota	ry 6 1/4"
PROJE	CT MANAGE	R Mil	ke McVey, PG	SAM	PLING	METHO	DS. Split Spo	on
DATES	DRILLED:	03/2	26/09	HAM	MER V	/T/DRC	P N/A	
NOTES	Split Spoor	n Pushed	by TH-60 Drilling Rig.				uring drilling n completed well	Page 1 of 1
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Rec. / feet.	PPM TPH	BORING COMPLETION	WELL DESCRIPTION
E o	9 9 9 9 9		GM: Tan White Caliche				110.	Cement
-5		GM	mixed with brown silt. Caprock material. @ 6' Sand 7.5YR 8/2	0'-2'	0.3			Bentonite 51.9'
-10 -		នធ	SW: Tan 7.5 YR 8/2 Fine Grained Sand, well sorted,	10'-12'	0.5			Surface
-20 -		33 33	SANDSTONE: Hard cemented tan brown SS. Fn. to med. gr ,well sorted. 7.5YR 8/2	20'-22'	Grab			
-30				3035.	1.0		Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Comments Com	Bentonite
-35		SS	SW: Ten brown,7.5YR 8/4					
-40		នប	to 7 YR 5/4, medium to fine grained, well sorted, sugar sand. No Odor or staining.	40'-42'	1.0			
-45		SV	Capillary Fringe 62'-64' BGS.Measured Water at 62 75' from TOC					
-55		SW		50'-52'	0.5			8 /16 Sand
-60				60'-62'	0.5			78.70' - 51.9' Screen 0.02 Slot 76.70'
-65		SW						56.70'
-70 - -75 -		ATT		70'-72'	2.0			2' foot. Sump 8 76.7'-78'.7
-80		SW		8085.	2.0			T.D. 78.70', drilled to 83'

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### FIELD BOREHOLE LOG

BOREHOLE NO.: DBS-7

TOTAL DEPTH: 77.10'

	PROJEC	TINFOR	MATION			DRILLIN	IG INFORMA	TION
PROJE	CT:	ESC	8.0118.01.00004	DRII	LING C	0.:	Peterson	n Drilling Co.
SITE LO	CATION:	Lea	Co., NM	DRI	LER:		Charles	Johnson
JOB NO	D.:	Salt	y Dog	RIG	TYPE:		Ingersol	l-Rand TH-60
LOGGE	D BY:	CM	I Barnhill, PG	MET	HOD O	F DRILL	ING: Air Rota	ту б 1/4"
PROJE	CT MANAGE	R: Mil	ke McVey, PG	SAM	PLING	METHO	DS: Split Spc	on
DATES	DRILLED:	03/2	26/09	HAM	MER V	/T/DRO	P N/A	
NOTES	Split Spoo	n Pushed	by TH-60 Drilling Rig.				uring drilling n completed well	Page 1 of 1
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Rec. / feet.	PPM TPH	BORING COMPLETION	WELL DESCRIPTION
0 7		1						Cement
-5		GR	GM: Brown Silt, 5YR 5/6, Sand, Calichemixture Hard	05.	0.3			
3			Caprock					Bentonite 52.0'
-10 -			SW: Tan 5 YR 8/3 Fine	10'-12'	0.5		open open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open particular open part	Surface
-15 -		SW	Grained Sand, well sorted, minor caliche					
-20-				2055.	1.0		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
-25							And the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th	
-30								
1	********	SS	SANDSTONE: Hard	30'-32'	Grab			Bentonite
-35 -		SW	SAN: Tan brown, 5YR 6/6 to 7.5 YR 8/3, medium to					
-40 -			fine grained, well sorted, sugar sand. No Odor or	40'-42'	1.0		pathol Andrea Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Co	
-45 -			staining. Capillary Fringe 60'-62' BGS.Measured					
-50-		SW	Water at 61.74' from TOC	50'-52'	, ,			
-55				30 -32	1.0.			
]		SW						8 /16 Sand 77.10' - 52.0'
- ∰ -				60'-62'	2.0			Screen 0.02 Slot 75 10'
-65 -		SW						55.10'
-70 -				70'-72'	2.0			2' foot. Sump
-75 -					,			0 75.10' 77.10'
	1 1 1 2 1 1 1 1 1	SW		80'-82	2.0		5468 SACK	T.D. 77.10',

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### FIELD BOREHOLE LOG

BOREHOLE NO: DBS-8

TOTAL	DEPTH:	77.20

4									
PROJECT INFORMATION DRILLING INFORMAT						ION			
PROJE	CT:	ESC	08.0118.01.00004	DRI	LLING C	0.:	Peterson	Drilling Co.	
SITE LO	DCATION:	Lea	a Co., NM	DRI	LER:		Charles Johnson		
JOB NO	).:	Salt	y Dog	RIG	TYPE:		Ingersoll-Rand TH-60		
LOGGE	D BY:	CI.	I Barnhill, PG	MET	HODO	F DRILL	JNG: Air Rota	ry 6 1/4"	
PROJE	CT MANAGE	R Mil	ke McVey, PG	SAM	IPLING	METHO	DS: Split Spo	on	
DATES	DRILLED:	03/2	26/09	HAN	MER V	/T./DRO	P N/A		
NOTES	Split Spoo	n Pushed	by TH-60 Drilling Rig.				luring drilling n completed well	Page 1 of 1	
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Rec. / feet	PPM TPH	BORING COMPLETION	WELL DESCRIPTION	
0 7					1			Cement	
-5 -			GM: Brown Silt, 5YR 5/3 to 8/2, Sand, Caliche mixture.	0'-2'	0.3			camenc	
3	8 8 8 8		Hard Caprock				The same and same are	Bentonite 52.5	
-10 -				10'-12'	0.5			Surface	
-15									
-20			SANDSTONE: Hard						
3		SS	cemented tan brown SS. Fn.to med.gr ,well sorted.	20'-22'	Grab		per la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contraction de la contr		
-25 -			7.5YR 8/2 SW: Tan brown, 5YR 6/6						
-30-		SW	to 7.5 YR 7/3 8/3,	30'-32'	1.0		constant and	Bentonite	
-35-			medium to fine grained, well sorted, sugarsand No		į				
		SW	Odor or staining. Capillary Fringe 60'-62'						
-40 -			BGS.Measured Water at 61.20' from TOC	40'-42'	1.0		And other land and and and and and and and and and		
-45			01.25 Woll 100				APR 1004		
-50 -		SW		50'-52'	2.0		- other specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the specification of the s		
-55 -				30 -32	2.0				
3		SW			h.			8 /16 Sand 77.20' - 52.5'	
-₩-				60'-62'	2;0			Screen 0.02	
-65		SW						\$1ot 75.20' - 55.20'	
-70									
1				70'-72'	2.0			2' foot. Sump @ 75.20'-77.20'	
-75 -		SW		80'-82'	2.0			T.D. 77.20',	
_ ₈₀ _					2.0			drilled to 83'	

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# FIELD BOREHOLE LOG

1	BOREHOLE NO.:	DBS-9
	TOTAL DEPTH:	70.85

	PROJECT	LINEOR	MATION			DRILLIN	IG INFORMAT	ION	
PROJE			8.0118.01.00004	DRI	DRILLING CO.: Peterson Drilling Co.				
	CATION:		Co., NM	DRI	LER:		Charles		
JOB NO			y Dog	RIG	TYPE:		Ingersol	-Rand TH-60	
LOGGE	D BY:	CIM	Barnhill, PG	MET	HODIC	F DRILL	ING: Air Rota		
PROJE	CT MANAGE		ce McVey, PG	SAM	IPLING	METHO	DS. Split Spo	on	
DATES	DRILLED:		30/09	HAN	MER V	/T/DRC	P N/A		
NOTES	Split Spoor	n Pushed	by TH-60 Drilling Rig.				uring drilling n completed well	Page 1 of 1	
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Rec / feet.	PPM TPH	BORING COMPLETION	WELL DESCRIPTION	
9		SM	SM: Gray Black Brown	05.	0.3			Cement	
-10		នម	Silty Sand, clay . silt  SW: Tan brown, 7.5YR 6/4 medium to fine grained, well sorted, sugarsand. No	10'-12'	0.5			Bentonite 42.5 - 5' BG Surface	
-15		22	Odor or staining.  SANDSTONE: Hard						
-20 -		នម	SW: Tan brown,10YR 8/3, medium to fine grained, well sorted, sugarsand No Odor or staining. @52'	20'-22'	0.5				
-30 -			BGS softer diffling. Capillary fringe @ 50' BGS? @ 53' BGS saturated to total drilled	30'-32'	1.0			Bentonite	
-40 -		នធ	depth of 83'	40'-42'	1.0				
-45 -		ss sv	SANDSTONE: Hard SW: Tan brown,7.5YR 6/4	50'-52'	2.0				
-55		នម	medium to fine grained, well sorted, sugarsand. No Odor or staining. Water at 53.93' from TOC					8 /16 Sand 70.85'-42.5'	
-65		SW		6062	1.0			Screen 0.02 Slot 68'-48'	
-70				70'-72'	2.0			2' foot. Sump @ 68'-70'	
-75 - -80 -		SW		8085.	2.0			T D. 70.85', drilled to 83'	

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### FIELD BOREHOLE LOG

BOREHOLE NO.: NW-1

TOTAL DEPTH: 74.95',121.31',171.45'

1202) 0	22-201213	1,000/	023-0330					
	PROJECT	FINFOR	MATION			DRILLIN	NG INFORMAT	ION
PROJE	CT:	ESC	08.0118.01.00004	DRII	LLING C	0.:	Peterson	Drilling Co.
SITE LO	CATION:	Lea	Co., NM	DRII	LLER:		Charles .	Johnson
JOB NO	).:	Salt	y Dog	RIG	TYPE:		Ingersoll	-Rand TH-60
LOGGE	D BY	CIV	f Barnhill, PG	MET	нор о	F DRILL	JNG: Air Rota	ry 6 1/4"
	CT MANAGE		ke McVey, PG			METHO		
								OIL
DATES	DRILLED:	Ų3/3	31/09	HAIV		/T/DRC		
NOTES	Split Spoor	n Pushed	by TH-60 Drilling Rig.				during drilling n completed well	Page 1 of 1
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Rec / feet.	PPM TPH	BORING COMPLETION	WELL DESCRIPTION
0 3								
-5		GM	GM: Brown Silt, 5YR 5/3 to	0'-2'	N/A			NW-1 Shallow: DTW = 62.35'
-10 <del>-</del> 15 <del>-</del>			8/2, Sand, Caliche mixture. SW: Tan brown, 5YR 6/6	10'-12'	1.0			TOC, T.D. =
-20 -		SW	to 7.5 YR 7/3 - 8/3,	20'-22'	1.0			74.95' Cement: 0'-5' Bentonite
-25		SS	SANDSTONE: Hard	20 -22	1.0			Seal 5'-50',
-30 - -35 -		SS	cemented tan brown SS. Fn. to med. gr ,well sorted.	30'-32'	Grab		Sand Sales	8/16 Sand Pack: 50'-74.95'
-40 -		SU	SW: Tan brown, 5YR 6/6	40'-42'	1.0			0.020 Slot
-45 -			7/4 to 7.5 YR 7/3 - 8/3, medium to fine grained,					Screen: 52.95' 72.95' Sump and
-55			well sorted, sugarsand. No	50,-52,	1.0			Screen Cap:
-65		รพ	Odor or staining. Capillary Fringe 60'-62'	60'-62'	2.0			72.95'-74.95'
-70			BGS.Measured Water et 62.35' from TOC NW-1					NW-1 Middle DTW = 62.25' TOC
-75			Shallow, 62.25' N/V-1					T.D. = 121.31'
-80 <del>-</del> 85 <del>-</del>		Su	Middle; 62.04' NW-1 Deep. Three Nested wells placed				Abber public production and the public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public public publi	Bentonite Seal: 80'-95' 8/16
-90 -			in one large 9" inch Soil				冒冒	Sand pack 95'
-95 - -100			boring. All wells are cased to surface, but separated					121.31' 0.020
-105		SW	and isolated by different					Slot Screen: 99.31' -
-110			bentonite seals, 8/16 sand filter packs, and 20 foot					119.31' Sump
-115 -120			screened intervals at different depths. Soil					and Screen Cap
-125		នម	Boring was split spoon					121.31' NW-1 Deep DTW =
-130			sampled from ground surface at 10 footintervals					62.04' TOC T.D.
-135 -140			to 60'-62' BGS. After 60'.					= 171.45'
-145		SW	all sample descriptions were from cuttings from					Bentonite Seal: 122' - 145'
-150			mud rotary drilling.					8/16 Sand pack
-155 -160								145' - 171.45' 0.020 Slot
-165		SW						Screen: 149.45'
-176	2/11/11	Red	CL: Red Bed formation:					- 169.45' Sump and Screen
-175 -180	111111	Bed /	Maroon sittstone /					want and soreen

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# FIELD BOREHOLE LOG

BOREHOLE NO .: NW-2

TOTAL DEPTH: 75.35',115.72',148.87'

	PROJECT	INFOR	MATION		:	DRILLIN	NG INFORMAT	TON
PROJE	CT:	ESC	08.0118.01.00004	DRII	LING C	:O.:	Peterson	Drilling Co.
SITE LO	CATION:	Lea	Co., NM	DRII	LLER:		Charles 3	Johnson
JOB NO	D.:	Salt	y Dog	RIG	TYPE:		Ingersoll	-Rand TH-60
LOGGE	D BY.	CM	I Barnhill, PG	MET	HOD O	F DRILL	LING: Air Rota	ry 6 1/4"
PROJE	CT MANAGE	R: Mil	ke McVey, PG	SAM	IPLING I	METHO	DS: Split Spo	on
DATES	DRILLED:	04/0	01/09	HAM	MER W	T./DRC	P N:A	
NOTES	Split Spoor	n Pushed	by TH-60 Drilling Rig.				during drilling n completed well	Page 1 of 1
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Rec. / feet.	PPM TPH	BORING COMPLETION	WELL DESCRIPTION
0 -					1			
-5		GM	GM: Brown Silt, 5YR 5/3 to 8/2, Sand, Caliche mixture.	0'-2'	0.3			NW-2 Shallow: DTW = 63.08'
-10 <del>-</del> -15 <del>-</del> -20 <del>-</del>		SW	SW: Tan brown, 5YR 6/6 to 7.5 YR 7/3 8/3,	10'-12'	1.0			TOC, T.D. = 75.35' Cement:
-25 <del>-</del>		SS	SANDSTONE: Hard cemented tan brown SS.	30'-22'	Grab			0'-5' Bentonite Seal 5'-50', 8/16 Sand Pack:
-35 - -40 -		SV	SW: Tan brown, 5YR 6/6 7/4 to 7.5 YR 7/3 - 8/3, medium to fine grained,	40'-42'	1.0			50'-75.35' 0.020 Slot Screen: 53.35'-
-45 - -50 -			wellsorted, sugarsand. No Odor or staining. Capillary	50'-52'	2.0			73.35' Sump and Screen Cap:
-65		su	Fringe 60'-62' BGS.Measured Water at 63.08' from TOC NW-2	6065.	0.5			73.35'-75.35'
-70 <del>-</del> 75 <del>-</del>			Shallow; 63.27' NW-2 Middle; 66.41' NW-2 Deep. Three Nested wells placed					= 63.27' TOC T.D. = 115.72'
-80 - -85 - -90 -		SW	in one large 9" inch Soil boring. All wells are cased		,			Bentonite Seal: 80'-90' 8/16 Sand pack 90' -
-95 - -100		sw	to surface, but separated and isolated by different bentonite seals, 8/16 sand		: .			115.72' 0.020 Slot Screen:
-105 -110		200	filter packs, and 20 foot screened intervals at					93.72' - 113.72' Sump and Screen Cap
-115 -120 -125		SC	clifferent depths, Soil SC: @ 115' BGS Clayey Sand, fine grained sand /					113.72' .
-130 -135			clay mixture 2.5 YR 5/8					NM-2 Deep DTW = 66.41' TOC T.D.
-140 -145		sc						= 148.87' Bentonite Seal: 115' - 125'
-150	11/11/11		CL: Red Bed formation: @					8/16 Sand pack
-155 -160		GT	150' BGS Maroon siltstone					125' · 148.87' 0 020 Slot
-165	14/1/2	CT	/ mudstone 2.5 YR 3/2					Screen: 126.87'
-170 -175	14/1/2	CL		,				Sump and Screen
-180	188811				JL	JL		

Appendix B
Laboratory Reports

Soil



#### **COVER LETTER**

Friday, April 17, 2009

Mike McVey Daniel B. Stephens & Assoc. 6020 Academy NE Suite 100 Albuquerque, NM 87109

TEL: (505) 822-9400 FAX (505) 822-8877

RE: Salty Dog

Dear Mike McVey:

Order No.: 0903463

Hall Environmental Analysis Laboratory, Inc. received 67 sample(s) on 3/30/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001 Texas Lab# T104704424-08-TX



Date: 17-Apr-09

	Daniel B. Stephens & Salty Dog	Assoc.				La	b Orde	er: 0903463
Lab ID:	0903463-01				Collection	Date:	3/25/2	009 8:45:00 AM
Client Sample ID:	DBS-1 10'-12'				M	atrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	D.O: ANIONS	3600	15		mg/Kg		50	Analyst: RAG 4/13/2009 7:09:37 PM
Lab ID:	0903463-02				Collection	Date:	3/25/2	009 9:00:00 AM
Client Sample ID:	DBS-1 20'-22'				M	atrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	240	3.0		mg/Kg		10	Analyst: RAGS 4/13/2009 7:27:02 PM
Lab ID:	0903463-03			(	Collection	Date:	3/25/20	009 9:15:00 AM
Client Sample ID:	DBS-1 30'-32'				M	atrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	1400	6.0		mg/Kg		20	Analyst: RAGS 4/13/2009 7:44:27 PM
Lab ID:	0903463-04			(	Collection	Date:	3/25/20	009 9:50:00 AM
Client Sample ID:	DBS-1 50'-52'				M	atrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	.0: ANIONS	380	3.0		mg/Kg		10	Analyst: RAGS 4/13/2009 8:01:52 PM
Lab ID:	0903463-05			(	Collection	Date:	3/25/20	009 10:10:00 AM
Client Sample ID:	DBS-1 60'-62'				M	atrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	160	3.0	-	mg/Kg		10	Analyst: RAGS 4/13/2009 8:19:16 PM
Lab ID:	0903463-06		· · · · · · · · · · · · · · · · · · ·	- (	Collection	Date:	3/25/20	009 10:30:00 AM
Client Sample ID:	•					atrix:		
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300.	0: ANIONS	230	,					Analyst: RAGS 4/13/2009 8:36:41 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 17-Apr-09

CLIENT: Project:	Daniel B. Stephens & Salty Dog	Assoc.				La	ab Order:	0903463
Lab ID:	0903463-07				Collect	ion Date:	3/25/2009	12:05:00 PM
Client Sample ID	: DBS-1 80'-82'		•			Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	D.O: ANIONS	18	0.30		mg/Kg		1	Analyst: RAG\$ 4/13/2009 10:03:42 PM
Lab ID:	0903463-08				Collect	ion Date:	3/24/2009	4:05:00 PM
Client Sample ID:	DBS-2 0'-2'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	2000	6.0		mg/Kg		20	Analyst: RAGS 4/13/2009 10:21:07 PM
Lab ID:	0903463-09			(	Collecti	on Date:	3/24/2009	4:15:00 PM
Client Sample ID:	DBS-2 10'-12'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	I.O: ANIONS	940	3.0		mg/Kg		10	Analyst: RAGS 4/13/2009 10:38:32 PM
Lab ID:	0903463-10				Collecti	on Date:	3/24/2009	4:25:00 PM
Client Sample ID:	DBS-2 20'-22'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	39	0.30		mg/Kg		1	Analyst: <b>RAGS</b> 4/13/2009 10:55:56 PM
Lab ID:	0903463-11				Collecti	on Date:	3/24/2009	4:45:00 PM
Client Sample ID:	DBS-2 40'-42'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0: ANIONS	42	0.30		mg/Kg		1 4	Analyst: RAGS 4/13/2009 11:13:21 PM
Lab ID:	0903463-12				Collection	on Date:	3/24/2009	5:10:00 PM
Client Sample ID:	DBS-2 50'-52'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	10	0.30		mg/Kg		1 4	Analyst: RAGS 3/13/2009 11:30:45 PM

- Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 2 of 12

Date: 17-Apr-09

CLIENT: Project:	Daniel B. Stephens & Salty Dog	Assoc.				La	b Order:	0903463
Lab ID:	0903463-13		-		Collection	on Date:	3/24/2009	9 5:20:00 PM
Client Sample ID	: DBS-2 60'-62'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 30 Chloride	0.0: ANIONS	7.9	0.30		mg/Kg		1	Analyst: RAGS 4/13/2009 11:48:10 PM
Lab ID:	0903463-14				Collection	on Date:	3/24/2009	5:45:00 PM
Client Sample ID	: DBS-2 70'-72'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	7.7	3.0		mg/Kg		10	Analyst: RAGS 4/10/2009 2:56:20 AM
Lab ID:	0903463-15				Collectio	n Date:	3/24/2009	6:10:00 PM
Client Sample ID	: DBS-2 80'-82'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	).0: ANIONS	5.8	3.0		mg/Kg		10	Analyst: <b>RAGS</b> 4/10/2009 3:13:45 AM
Lab ID:	0903463-16				Collection	n Date:	3/24/2009	) 12:45:00 PM
Client Sample ID:	DBS-3 0'-2'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	170	3.0		mg/Kg		10	Analyst: RAGS 4/10/2009 3:31:10 AM
Lab ID:	0903463-17				Collectio	n Date:	3/24/2009	1:00:00 PM
Client Sample ID:						Matrix:		
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	58	3.0		mg/Kg		10	Analyst: <b>RAGS</b> 4/10/2009 3:48:34 AM
Lab ID:	0903463-18				Collectio	n Date:	3/24/2009	1:10:00 PM
Client Sample ID:	DBS-3 20'-22'				]	Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	41	3.0		mg/Kg		10	Analyst: <b>RAGS</b> 4/10/2009 4:05:59 AM
Qualifiers: *	Value exceeds Maximum (	Contaminant Level	,					iated Method Blank

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Date: 17-Apr-09

	Daniel B. Stephens & Salty Dog	Assoc.				La	b Order:	0903463
Lab ID:	0903463-19			.(	Collect			1:25:00 PM
Client Sample ID:	DBS-3 30'-32'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0: ANIONS	44	0.30		mg/Kg		1	Analyst: RAGS 4/10/2009 4:23:24 AM
Lab ID:	0903463-20			(	Collecti	ion Date:	3/24/2009	1:45:00 PM
Client Sample ID:	DBS-3 40'-42'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	35	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 10:26:44 AM
Lab ID:	0903463-21			(	Collecti	on Date:	3/24/2009	2:00:00 PM
Client Sample ID:	DBS-3 50'-52'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	3.4	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 11:18:58 AM
Lab ID:	0903463-22			(	Collecti	on Date:	3/24/2009	2:15:00 PM
Client Sample ID:	DBS-3 60'-62'					Matrix:	SOIL	
Analyses		Result	PQL	Quai	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	8.5	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 11:36:23 AM
Lab ID:	0903463-23			(	Collecti	on Date:	3/24/2009	3:00:00 PM
Client Sample ID:	DBS-3 80'-82'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	6.6	0.30		mg/Kg		1 .	Analyst: <b>RAGS</b> 4/14/2009 11:53:47 AM
Lab ID:	0903463-24			(	Collecti	on Date:	3/25/2009	1:45:00 PM
Client Sample ID:	DBS-4 0'-2'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300.	0: ANIONS	18	0.30		mg/Kg		1 4	Analyst: RAGS 4/14/2009 1:03:25 PM

- E Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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Date: 17-Apr-09

	Daniel B. Stephens & Salty Dog	Assoc.				La	ib Order:	0903463
Lab ID: Client Sample ID:	0903463-25 DBS-4 10'-12'			-	Collect	ion Date: Matrix:		9 1:50:00 PM
Analyses	225 110 12	Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	54	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 1:20:49 PM
Lab ID:	0903463-26			,	Collect	ion Date:	3/25/2009	2:00:00 PM
Client Sample ID:	DBS-4 20'-22'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	39	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 1:38:14 PM
Lab ID:	0903463-27			•	Collecti			2:10:00 PM
Client Sample ID:	DBS-4 30'-32'					Matrix:		
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	.0: ANIONS	19	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 1:55:38 PM
Lab ID:	0903463-28			(	Collecti	on Date:	3/25/2009	2:20:00 PM
Client Sample ID:	DBS-4 40'-42'					Matrix:	SOIL	
Analyses	·	Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	55	0.30		mg/Kg		1	Analyst: <b>RAGS</b> 4/14/2009 2:13:03 P <b>M</b>
Lab ID:	0903463-29	·····		(	Collecti	on Date:	3/25/2009	2:40:00 PM
Client Sample ID:	DBS-4 50'-52'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	75	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 2:30:27 PM
Lab ID:	0903463-30				Collecti	on Date:	3/25/2009	3:00:00 PM
Client Sample ID:	DBS-4 60'-62'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300.	0: ANIONS	44	0.30		mg/Kg		1 .	Analyst: RAGS 4/14/2009 2:47:52 PM

- Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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Date: 17-Apr-09

Result 3 9.7 32 0'-82' Result 6.9 33 -2' Result	0.30 PQL 0.30	Qual	Units  mg/Kg  Collect  Units  mg/Kg	Matrix: ion Date: Matrix:	SOIL  DF  1  3/25/200 SOIL  DF  1  3/23/200	9 3:20:00 PM  Date Analyzed  Analyst: RAGS 4/14/2009 3:05:16 PM  Date Analyzed  Analyst: RAGS 4/14/2009 3:22:41 PM  9 3:40:00 PM  Date Analyzed
Result 9.7 32 0'-82' Result 6.9 33 -2' Result	0.30 PQL 0.30	Qual	mg/Kg Collect Units mg/Kg	ion Date: Matrix:	1 3/25/200 SOIL <b>DF</b> 1 3/23/200 SOIL	Analyst: RAGS 4/14/2009 3:05:16 PM  9 3:55:00 PM  Date Analyzed  Analyst: RAGS 4/14/2009 3:22:41 PM  9 3:40:00 PM
9.7 32 2)-82' Result 6.9 33 -2' Result	0.30 PQL 0.30	Qual	mg/Kg Collect Units mg/Kg	ion Date: Matrix:	1 3/25/200 SOIL <b>DF</b> 1 3/23/200 SOIL	Analyst: RAGS 4/14/2009 3:05:16 PM  9 3:55:00 PM  Date Analyzed  Analyst: RAGS 4/14/2009 3:22:41 PM  9 3:40:00 PM
9.7 -32 -32 -32 -32 -82 -88 -89 -33 -2' -88 -88 -88 -88	PQL 0.30	Qual	Units mg/Kg	ion Date: Matrix:	3/25/200 SOIL <b>DF</b> 1 3/23/200 SOIL	4/14/2009 3:05:16 PM 9 3:55:00 PM  Date Analyzed  Analyst: RAGS 4/14/2009 3:22:41 PM 9 3:40:00 PM
Result 6.9 33 -2' Result	0.30	Qual	Units mg/Kg	Matrix:	SOIL  DF  1  3/23/200 SOIL	Date Analyzed  Analyst: RAGS 4/14/2009 3:22:41 PM  9 3:40:00 PM
Result 6.9 33 -2' Result	0.30		mg/Kg Collecti	ion Date:	DF 1 3/23/200 SOIL	Analyst: <b>RAGS</b> 4/14/2009 3:22:41 PM 9 3:40:00 PM
33 -2' Result	0.30		mg/Kg Collecti	ion Date:	1 3/23/200 SOIL	Analyst: <b>RAGS</b> 4/14/2009 3:22:41 PM 9 3:40:00 PM
33 -2' Result	PQL		Collecti	ion Date:	3/23/200 SOIL	4/14/2009 3:22:41 PM 9 3:40:00 PM
Result			,		SOIL	
Result		Qual	Units	Matrix:		Date Analyzed
		Qual	Units		DF	Date Analyzed
	0.30					-
	0.00		mg/Kg		1	Analyst: RAGS 4/14/2009 4:32:19 PM
34			Collecti	on Date:	3/23/200	9 4:00:00 PM
'-12'				Matrix:	SOIL	
Result	PQL	Qual	Units		DF	Date Analyzed
25	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 4:49:44 PM
35		(	Collecti	on Date:	3/23/200	9 4:20:00 PM
'-22'				Matrix:	SOIL	
Result	. PQL	Qual	Units		DF	Date Analyzed
17	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 5:07:09 PM
36		(	Collecti	on Date:	3/23/2009	9 5:20:00 PM
'-42'				Matrix:	SOIL	
Result	PQL	Qual	Units		DF	Date Analyzed
8.5	0.30		mg/Kg	-	1	Analyst: RAGS 4/14/2009 5:24:34 PM
,	25 35 3-22' Result 17 36 '-42' Result	25 0.30  35 35 3-22'  Result PQL  17 0.30  36 36 3-42'  Result PQL	25 0.30  35 '-22'  Result PQL Qual  17 0.30  36 '-42'  Result PQL Qual	25 0.30 mg/Kg  35 Collecti  '-22'  Result PQL Qual Units  17 0.30 mg/Kg  36 Collecti  '-42'  Result PQL Qual Units	25 0.30 mg/Kg  Collection Date: Matrix: Result PQL Qual Units  17 0.30 mg/Kg  Collection Date: Matrix: Result PQL Qual Units	25 0.30 mg/Kg 1  Collection Date: 3/23/200 Matrix: SOIL  Result PQL Qual Units DF  17 0.30 mg/Kg 1  Collection Date: 3/23/2009 Matrix: SOIL  Result PQL Qual Units DF

- E Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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Date: 17-Apr-09

CLIENT: Project:	Daniel B. Stephens & Salty Dog	Assoc.				La	b Order:	0903463
Lab ID:	0903463-37				Collecti	on Date:	3/24/2009	7:50:00 AM
Client Sample ID	: DBS-5 50'-52'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 30 Chloride	0.0: ANIONS	3.1	0.30		mg/Kg	-	1	Analyst: RAG\$ 4/14/2009 5:41:58 PM
Lab ID:	0903463-38				Collecti	on Date:	3/24/2009	8:10:00 AM
Client Sample ID	: DBS-5 60'-62'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	18	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 5:59:23 PM
Lab ID:	0903463-39				Collecti	on Date:	3/24/2009	8:45:00 AM
Client Sample ID:	: DBS-5 70'-72'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	D.O: ANIONS	12	0.30		mg/Kg		1 4	Analyst: RAGS 4/14/2009 6:51:36 PM
Lab ID:	0903463-40			(	Collection	on Date:	3/24/2009	9:20:00 AM
Client Sample ID:	DBS-5 80'-82'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	7.5	1.5		mg/Kg		5 4	Analyst: TAF 4/11/2009 5:04:35 PM
Lab ID:	0903463-41				Collection	n Date:	3/26/2009	8:20:00 AM
Client Sample ID:	DBS-6 0'-2'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	4.7	1.5		mg/Kg		5 4	Analyst: TAF I/11/2009 6:14:13 PM
Lab ID:	0903463-42			- (	Collection	n Date:	3/26/2009	8:35:00 AM
Client Sample ID:	DBS-6 10'-12'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	6.5	1.5		mg/Kg		5 4	Analyst: TAF 1/12/2009 2:21:39 AM

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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Date: 17-Apr-09

	Daniel B. Stephens & Salty Dog	Assoc.				La	b Ord	er: 0903463
Lab ID:	0903463-43				Collect	ion Date:	3/26/2	009 8:45:00 AM
Client Sample ID:	DBS-6 20'-22'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0: ANIONS	6.3	1.5		mg/Kg		5	Analyst: TAF 4/12/2009 2:56:27 AM
Lab ID:	0903463-44		7		Collect	on Date:	3/26/2	009 9:00:00 AM
Client Sample ID:	DBS-6 30'-32'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	31	1.5		mg/Kg		5	Analyst: TAF 4/12/2009 3:31:16 AM
Lab ID:	0903463-45				Collecti			009 9:15:00 AM
Client Sample ID:	DBS-6 40'-42'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	4.4	1.5		mg/Kg		5	Analyst: TAF 4/12/2009 4:06:04 AM
Lab ID:	0903463-46				Collecti	on Date:	3/26/2	009 9:40:00 AM
Client Sample ID:	DBS-6 50'-52'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	3.8	1.5		mg/Kg		5	Analyst: <b>TAF</b> 4/12/2009 4:40:53 AM
Lab ID:	0903463-47				Collecti	on Date:	3/26/2	009 10:00:00 AM
Client Sample ID:	DBS-6 60'-62'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300.	0: ANIONS	30	1.5		mg/Kg	,	5	Analyst: TAF 4/12/2009 5:50:31 AM
Lab ID:	0903463-48				Collecti	on Date:	3/26/2	009 10:15:00 AM
Client Sample ID:	DBS-6 70'-72'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300.0	D: ANIONS	-						Analyst: TAF

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 17-Apr-09

CLIENT: Project:	Daniel B. Stephens & Salty Dog	Assoc.				La	b Order	r: 0903463
Lab ID:	0903463-49				Collection	Date:	3/26/20	09 10:45:00 AM
Client Sample ID	: DBS-6 80'-82'				N	/latrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 30 Chloride	0.0: ANIONS	17	1.5		mg/Kg		5	Analyst: <b>TAF</b> 4/12/2009 7:34:57 AM
Lab ID:	0903463-50				Collection	Date:	3/26/20	09 1:00:00 PM
Client Sample ID	: DBS-7 0'-2'				N	latrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 30 Chloride	0.0: ANIONS	16	1.5		mg/Kg		5	Analyst: RAGS 4/14/2009 8:36:03 PM
Lab ID:	0903463-51				Collection	Date:	3/26/20	09 1:10:00 PM
Client Sample ID	: DBS-7 10'-12'				N	latrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	9.6	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 8:53:28 PM
Lab ID:	0903463-52			(	Collection	Date:	3/26/200	09 1:20:00 PM
Client Sample ID:	: DBS-7 20'-22'				M	latrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	9.8	0.30		mg/Kg		1	Analyst: RAGS 4/14/2009 9:45:42 PM
Lab ID:	0903463-53				Collection	Date:	3/26/200	09 1:30:00 PM
Client Sample ID:	DBS-7 30'-32'				M	latrix:	SOIL	
Analyses	•	Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	13	0.30		mg/Kg		1	Analyst: <b>RAGS</b> 4/14/2009 10:03:07 PM
Lab ID;	0903463-54				Collection	Date:	3/26/200	9 1:45:00 PM
Client Sample ID:	DBS-7 40'-42'				M	atrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	16	1.5		mg/Kg	-	5	Analyst: RAGS 4/14/2009 10:20:32 PM

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 9 of 12

Date: 17-Apr-09

CLIENT: Project:	Daniel B. Stephens & Salty Dog	Assoc.		="		La	b Orde	er: 0903463
Lab ID:	0903463-55			· <del></del>	Collecti	on Date:	3/26/20	009 2:00:00 PM
Client Sample ID	: DBS-7 50'-52'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	D.O: ANIONS	7.9	1.5		mg/Kg		5	Analyst: RAGS 4/14/2009 11:30:09 PM
Lab ID:	0903463-56				Collecti	on Date:	3/26/20	009 2:15:00 PM
Client Sample ID:	DBS-7 60'-62'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	33	1.5		mg/Kg		5	Analyst: RAGS 4/14/2009 11:47:35 PM
Lab ID:	0903463-57				Collecti	on Date:	3/26/20	009 2:30:00 PM
Client Sample ID:	DBS-7 70'-72'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	83	0.30		mg/Kg		1	Analyst: RAGS 4/15/2009 12:04:59 AM
Lab ID:	0903463-58				Collecti	on Date:	3/26/20	009 3:00:00 PM
Client Sample ID:	DBS-7 80'-82'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	130	1.5		mg/Kg		5	Analyst: RAGS 4/16/2009 1:02:12 AM
Lab ID:	0903463-59				Collection	on Date:	3/26/20	009 4:40:00 PM
Client Sample ID:	DBS-8 0'2'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	9.5	1.5		mg/Kg		5	Analyst: RAGS 4/15/2009 12:39:49 AM
Lab ID:	0903463-60			- (	Collection	n Date:	3/26/20	009 4:55:00 PM
Client Sample ID:	DBS-8 10'-12'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	8.8	0.30		mg/Kg		1	Analyst: <b>RAGS</b> 4/15/2009 12:57:13 AM
•	Value exceeds Maximum C Estimated value	Contaminant Level				-		sociated Method Blank

- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 10 of 12

Date: 17-Apr-09

	Daniel B. Stephens & Salty Dog	Assoc.			1	La	b Ord	er: 0903463
Lab ID:	0903463-61				Collect	ion Date:	3/26/2	009 5:13:00 PM
Client Sample ID:	DBS-8 20'-22'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	7.3	<b>0</b> .30		mg/Kg		1	Analyst: <b>RAG</b> 4/15/2009 1:14:37 AM
Lab ID:	0903463-62				Collect	ion Date:	3/26/2	009 5:25:00 PM
Client Sample ID:	DBS-8 30'-32'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	47	0.30		mg/Kg		1	Analyst: RAGS 4/15/2009 2:59:05 AM
Lab ID:	0903463-63				Collect	on Date:	3/26/2	009 5:40:00 PM
Client Sample ID:	DBS-8 40'-42'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	20	1.5		mg/Kg		5	Analyst: RAGS 4/15/2009 3:16:30 AM
Lab ID:	0903463-64		<del></del>		Collecti	on Date:	3/26/2	009 5:55:00 PM
Client Sample ID:	DBS-8 50'-52'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	13	1.5		mg/Kg		5	Analyst: RAGS 4/15/2009 3:33:54 AM
Lab ID:	0903463-65				Collecti	on Date:	3/27/20	009 8:30:00 AM
Client Sample ID:	DBS-8 60'-62'					Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		ĎF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	9.3	0.30		mg/Kg		1	Analyst: RAGS 4/15/2009 3:51:18 AM
Lab ID:	0903463-66				Collecti	on Date:	3/27/20	009 8:45:00 AM
Client Sample ID:			,			Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	8.7	1.5		mg/Kg		5	Analyst: RAGS 4/15/2009 4:08:43 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 11 of 12

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Project:

Salty Dog

Client Sample ID: DBS-8 80'-82'

Lab Order:

0903463

Lab ID:

0903463-67

Collection Date: 3/27/2009 9:25:00 AM

Matrix: SOIL

Result PQL Qual Units DF Date Analyzed Analyses Analyst: RAGS **EPA METHOD 300.0: ANIONS** 4/15/2009 4:26:08 AM 11 5 Chloride 1.5 mg/Kg

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Estimated value E
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- MCL Maximum Contaminant Level
- Reporting Limit

Page 12 of 12

Date: 17-Apr-09

# **QA/QC SUMMARY REPORT**

Client:

Daniel B. Stephens & Assoc.

Project:

Salty Dog

Work Order:

0903463

Analyte		Result	Units	PQL	%Rec	LowLimit HighLimit	%RPD RPDLimit Qual
	A Method 300.0: Anic	ons				1	
Sample ID: 09	903463-19AMSD		MSD			Batch ID: 18770	•
Chloride		60.43	mg/Kg	0.30	112	75 125	2.13 20
•	003463-38AMSD		MSD			Batch ID: 18798	
Chloride		31.40	mg/Kg	0.30	94.2	75 125	2.17 20
•	03463-40AMSD		MSD			Batch ID: 18807	•
Chloride		22.33	mg/Kg	1.5	99.2	75 125	0.411 20
•	03463-48AMSD		MSD			Batch ID: 18807	•
Chloride		82.67	mg/Kg	1.5	128	75 125	9.33 20 S
•	03463-20AMSD		MSD			Batch ID: 18798	•
Chloride		50.63	mg/Kg	0.30	103	75 125	3.79 20
•	03463-51AMSD		MSD			Batch ID: 18810	•
Chloride		25.35	mg/Kg	0.30	105	75 125	1.57 20
Sample ID: 09	03463-61AMSD		MSD			Batch ID: 18810	•
Chloride		22.21	mg/Kg	0.30	99.4	75 125	0.417 20
Sample ID: M	B-18770		MBLK			Batch ID: 18770	Analysis Date: 4/9/2009 8:33:21 PM
Chloride		ND	mg/Kg	0.30			4/40/0000 7/40/00 79
Sample ID: MI	B-18798		MBLK			Batch ID: 18798	Analysis Date: 4/10/2009 7:46:02 PM
Chloride		ND	mg/Kg	0.30		<del>_</del>	
`ample ID: Mi	3-18807		MBLK			Batch ID: 18807	Analysis Date: 4/11/2009 4:29:46 PM
Chloride		ND	mg/Kg	0.30			
Sample ID: MI	3-18810		MBLK			Batch ID: 18810	Analysis Date: 4/14/2009 8:01:14 PM
Chloride		ND	mg/Kg	0.30			
Sample ID: LC	S-18770		LCS			Batch ID: 18770	Analysis Date: 4/9/2009 8:50:46 PM
Chloride		13.87	mg/Kg	0.30	92.5	90 110	
Sample ID: LC	S-18770		LCS			Batch ID: 18770	Analysis Date: 4/10/2009 2:50:06 PM
Chloride		14.13	mg/Kg	0.30	94.2	90 110	
Sample ID: LC	S-18798		LCS			Batch ID: 18798	Analysis Date: 4/10/2009 8:03:27 PM
Chloride		15.05	mg/Kg	0.30	100	90 110	
Sample ID: LC	S-18807		LCS			Batch ID: 18807	Analysis Date: 4/11/2009 4:47:10 PM
Chloride		15.49	mg/Kg	0.30	103	90 110	
Sample ID: LC	S-18798		LCS			Batch ID: 18798	Analysis Date: 4/14/2009 10:09:19 AM
Chloride		15.30	mg/Kg	0.30	102	90 110	
Sample ID: LC	S-18810		LCS			Batch ID: 18810	Analysis Date: 4/14/2009 8:18:39 PM
Chloride		15.75	mg/Kg	0.30	105	90 110	
Sample ID: 09	03463-19AMS		MS			Batch ID: 18770	Analysis Date: 4/10/2009 4:58:12 AM
Chloride		61.73	mg/Kg	0.30	121	75 125	
Sample ID: 09	03463-38AMS		MS			Batch ID: 18798	Analysis Date: 4/11/2009 4:10:54 AM
Chloride		30.73	mg/Kg	0.30	89.7	75 125	
Sample ID: 090	3463-40AMS		MS		•	Batch ID: 18807	Analysis Date: 4/11/2009 5:21:59 PM
Chloride		22.24	mg/Kg	1.5	98.6	75 125	

#### Qualifiers:

Page 1

E Estimated value

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Date: 17-Apr-09

# **QA/QC SUMMARY REPORT**

Client:

Daniel B. Stephens & Assoc.

Project:

Salty Dog

Work Order:

0903463

Analyte	Result	Units	PQL	%Rec	LowLimit Hig	jhLimit	%RPD RP	DLimit Qual
Method: EPA Method 300.0: Ar	nions	МС		<u> </u>	Pateb ID:	48867	Analysis Date:	4/12/2009 7:00:09 AM
Sample ID: 0903463-48AMS		MS			Batch ID:	18807	Analysis Date:	4/12/2009 /:00:09 AM
Chloride	75.30	mg/Kg	1.5	79.2	75 1	25		
Sample ID: 0903463-20AMS		MS			Batch ID:	18798	Analysis Date:	4/14/2009 10:44:09 AM
Chloride	48.74	mg/Kg	0.30	90.8	75 1:	25		
Sample ID: 0903463-51AMS		MS			Batch ID:	18810	Analysis Date:	4/14/2009 9:10:53 PM
Chloride	24.95	mg/Kg	0.30	102	75 1:	25		
Sample ID: 0903463-61AMS		MS			Batch ID:	18810	Analysis Date:	4/15/2009 1:32:02 AM
Chloride	22.30	mg/Kg	0.30	100	75 1:	25		

#### `ualifiers:

R RPD outside accepted recovery limits

S Spike recovery outside accepted recovery limits

Page 2

E Estimated value

J Analyte detected below quantitation limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

#### Sample Receipt Checklist

Client Name DBS				Date Rec	eived:		3/30/2009	
Work Order Number 0903463				Receive	d by: ARS			
		a	ا ما	Sample	ID labels checked b	by: _	-12	
Checklist completed by:	$\sim$			09		in	itials	
	J	i						
Matrix:	Carrier name:	Grey	hound					
Shipping container/cooler in good condition?		Yes	$\checkmark$	No 🗆	Not Present			
Custody seals intact on shipping container/coo	ler?	Yes	$\checkmark$	No 🗌	Not Present		Not Shipped	
Custody seals intact on sample bottles?		Yes	$\checkmark$	No 🗌	N/A			
Chain of custody present?		Yes	$\checkmark$	No 🗆				
Chain of custody signed when relinquished and	d received?	Yes	$\checkmark$	No 🗆				
Chain of custody agrees with sample labels?		Yes	$\checkmark$	No 🗆				
Samples in proper container/bottle?		Yes	$\checkmark$	No 🗌				
Sample containers intact?		Yes	$\checkmark$	No 🗌				
Sufficient sample volume for indicated test?		Yes	$\checkmark$	No 🗌				
All samples received within holding time?		Yes	✓	No 🗆				
Water - VOA vials have zero headspace?	No VOA vials subm	itted	$\checkmark$	Yes 🗌	No 🗌			
Water - Preservation labels on bottle and cap n	natch?	Yes		No 🗆	N/A			
Water - pH acceptable upon receipt?		Yes		No 🗌	N/A 🗹			
Container/Temp Blank temperature?			3°	<6° C Accep	otable			
COMMENTS:				If given suffic	cient time to cool.			
		==	==:			==		
	<b>5</b>			_				
Client contacted	Date contacted:			<del>}</del>	Person contacted			
Contacted by:	Regarding:							
Comments:								
Corrective Action								
								·

	į	PAGÉ	1 OF 8			<u></u>													
Cha	ain-	of-Cu	stody Record	Turn-Around	d Time:						_	<b>.</b>							
Client: DB	5¢.	A		✓ Standard	d □ Rush												NTA TO		
ATTAL	n	n:Ke	Muleu	Project Nam	ne:					/ww.ha						~~			
Mailing Add	drass:	do an in d	McVey Road NE	5	elty Do	1. 00004		4901 H								100			
Str In	TCM B	John Du	n Que, NM 87/09	Project #:			ĺ	Tel. 5							-4107				
			22 - 9400	6508,	0118.0	1. 00004		161. 3	05-54			_		uest					
			822 - 8877	Project Man	ager:			(g) (a)			_	(7				0			٦
QA/QC Pack				h	11/ 4/2	v nc	3021	H (Gas only) (Gas/Diesel)				SC.	B's			٠l			
Standard	d		☐ Level 4 (Full Validation)	///	the mi	Vey, PE 6:11, Pt	8) S,	(Ga (Sas/			}	G.	2 PCB			301			1
Accreditation	on	C 04-	_	Sampler:	M Bark	6:11,PF	TMB's (8021)	+ TPH (Gas only) 115B (Gas/Diesel)	=	El E		NO.	808			Z.			
☐ NELAP	una)	□ Otne	r						418.1)	PAH)	SE	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄ )	8081 Pesticides / 8082		8270 (Semi-VOA)	M		N IO	
<u> </u>	ype)_						BTEX + MTBE	BTEX + MTBE TPH Method 80	TPH (Method	EDB (Method 8310 (PNA or	RCRA 8 Metals	<u>o</u>	ticid	8260B (VOA)	i E	Jane		Air Bubbles (Y	3
Date T	ime	Matrix	Sample Request ID	Container	Preservative		+	BTEX + MTB TPH Method	We W	<u>B</u>   R	A 8	R) Sr	Pes	8	(Se	oen		4	3
				Type and #	Type		Œ.	띮	ᇤ	EDB 8310	l S	hioi	3081	260	3270	4		8	۱ ا <u>:</u>
No Same	de	Soil	DBS-10'-2-NoSan	1402/6/	Nine.				-		1	1				文	_	1	7
			PBS-1 10'-12'	1	1	1		+	$\Box$	$\top$	T					7	$\top$	1	9
			DBS-1 20'-22'			2				$\top$	$\dagger$	1				11		<del>       </del>	7
3/25/04 09				1-1-	1-1-	3	T	+	t	+	$t^-$	T		[	$\Box$	††	_	++	1
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12/07	731	Sair	DBS-160'-62	,	++-	1 1/5	1	+	1 1	_	+	$\dagger$				11		1-11	7
2/25/09/14	. 20	Soul	DBS-170'-72	#		7 h	1-1	$\vdash$	1 1	_	<del>                                     </del>	†-			$\vdash$	††		† ††	٦
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3/29/09 /	200	( )	1. ge		X) 9:49	3 3 3 3 0 0 9			AM	, W	431	ON.	3	M	1005	2			
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	nain-	of-Cu	stody Re	cord	Turn-A	round	Time:		^d d.				9 1		_		_	RI3.	/T C	•	BI B		NTA		
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QA/QC Pa	ard ation P	□ Othe	□ Level 4 (Full	Validation)							E + TMB's (8021)	E + TPH (Gas only)	8015B (Gas/Diesel)	418.1)	- PAH)	als	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄ )	es / 8082 PCB'		(OA)	16PA 300.			r or N)	
Date	Time	Matrix	Sample Re	equest ID	Cont Type	ainer and #	Preserv Type	ative				BTEX + MTBE	BTEX + MTBE	Method	(Method	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,I	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Ch/derale			Air Bubbles (Y
3/24/0		Soil			Ja	2/6	No	ne	9	8	_		_	+		+	-	-	_	$\vdash$		X	1	+-	MA
3/24/09 3/24/09 3/24/09 3/24/09	1625 Sam; 1648 1710 1720 1745	soic Soic Soic Soic	DBS-2 DBS-2 DBS-2	20'-22 30'-32 40'-42 50'-52 60'-62 70'-72	<i> </i> 				, ,		1											V			
Date: 3/29/29 Dave:	Time: /200 Time:	Reinguish	THE		Receive	$\bigwedge$	N	9	Date Date	Time	Hund Waster in Waster Call														

PAGE 3 OF 8 Turn-Around Time: **Chain-of-Custody Record** HALL ENVIRONMENTAL Client: DBS & A **Standard** □ Rush **ANALYSIS LABORATORY** Project Name: Mailing Address Hosbern Rd. NE www.hallenvironmental.com Solty Por 4901 Hawkins NE - Albuquerque, NM 87109 STR 100, Albubuen Que, NM STA Broject #:

Phone #: 505 - 822 - 9400 ESOS Fax 505-345-4107 Tel. 505-345-3975 E508,0118,01.00004 **Analysis Request** TPH (Gas only) email or Fax#:505 - 822 - 8877 5B (Gas/Diesel) Anions (F,CI,NO3,NO2,PO4,SO4) Project Manager: TMB's (8021) Mike Mc Vay, PE QA/QC Package: □ Level 4 (Full Validation) 8081 Pesticides / 8082 Accreditation EDB (Method 504.1) 8310 (PNA or PAH) □ NELAP □ Other ō RCRA 8 Metals Air Bubbles (Y □ EDD (Type) Container Preservative Sample Request ID Matrix Date Time BTEX Type and # Type 03/24/09 1245 SOIL DBS-3 6/21 1400/6 None 3/21/00/325 SOIL DBS-3 30'-32' 19 1345 SOIL DBS-3 40-42 20 Received by: Remarks: ANY Questions Please Call Mike Mc Vey @ Received by: 505-822-9400

С	् hain-	of-Cu	stody Record	Turn-/	Around	Time:		-								_									
Client:	PBS	st A			andard		Rush_																NT/ TO		,
AT	TN:	mik	. Me Vey	,	t Name		_							V	ww	.hall	envi	ronn	nenta	al.cc	m				
Mailing	Address	herdan	LE BY NE		Sá	rtg	D	06				490	)1 Ha								M 87	109			
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Date	Time	Matrix	Sample Request ID	Туре	tainer and #	Presen Typ					BTEX + MT	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄ )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Ch louve			Air Bubbles (Y or N)
3/25/04	1345	5014	DBS-4 0-21	Tor	102/6	Non	e		27	24												X			MA
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Accredit		□ Othe	r	On least 1	2m Ba		//, Pb-	+ TMB	+ TPH	)15B ((	(Method 418.1) (Method 504.1)	AH)	,,	O ₃ ,NO	s / 808		(F)	EPA			or N)
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Date	Time	Matrix	Sample Request ID	Type and #	Preservative Type			BTEX + MTBE	BTEX + MTBE	TPH Method 8015B	TPH (Method 418.1) EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	0410F1D			Air Bubbles (Y
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PAGE DO OF 8 **Chain-of-Custody Record** Turn-Around Time: HALL ENVIRONMENTAL Client DBS & A **⊟** Standard ☐ Rush **ANALYSIS LABORATORY** Mailing Address STE 100 Albuques Que, NM 87/09 Project Na Project Name: Salty Do6 www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 ES08,0118,01.00004 Phone #: 505 - 822 - 9400 **Analysis Request** + TPH (Gas only) email or Fax#: 545 - 822 - 8877 SO₄) Project Manager: TMB's (8021) QA/QC Package: PCB's Mike McVey, PE. Anions (F,CI,NO₃,NO₂,PO₄, **∫**Standard □ Level 4 (Full Validation) 8082 Accreditation EDB (Method 504.1) TPH (Method 418.1) 8310 (PNA or PAH) □ NELAP □ Other Pesticides / ō RCRA 8 Metals ☐ EDD (Type) ح (VOA) TPH Method Bubbles Container Preservative Sample Request ID 8260B Date Time Matrix BTEX Type and # Type 8081 Ą Nonc us Soil DBS-10-72 48 03/20/04 1045 SOIL DB5-6 80'-82' 49 Received by: Remarks:

Received by

ANY Questims Please Coll Mike Mc Vey c

PAGE 7 OF 8 **Chain-of-Custody Record** Turn-Around Time: HALL ENVIRONMENTAL Client: DBS & A **E** Standard ☐ Rush ANALYSIS LABORATORY Mailing Address Hardeny RD, NE .

STE . 100 A / burner Dun MM 87109 Project #:

Phone #: 555 - 832 - 9400 E 508 Project Name: www.hallenvironmental.com Salty Doc 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 Tel. 505-345-3975 E508,0118,01.00004 **Analysis Request** email or Fax#: 505 - 822 - 8877 + TPH (Gas only) (Gas/Diesel) SO₄) Project Manager: TMB's (8021) Mike McVey, PE. PCB's QA/QC Package: PO. Standard □ Level 4 (Full Validation) Anions (F,CI,NO3,NO2, Accreditation 4 1 TPH (Method 418.1) 8310 (PNA or PAH) ☐ NELAP □ Other Pesticides / ö **TPH Method 801** 8 Metals BTEX + MTBE Air Bubbles (Y ☐ EDD (Type) 8260B (VOA) Container Preservative RCRA 8 Sample Request ID Matrix Date BTEX Time 8081 Type and # Type None 50 03/26/05 1310 SOIL DBS-7 10'-12' 03/26/09/320 SOIL DBS-7 20-22 53 2669 1330 SOIL DBS- 7 30'-32 Any Dustins Please Call Mike McVey a Received by: Remarks: Received by: 505-822-9400

Chain-of-Custody Record	Turn-Around Time:	1
Client Control Client	- Turn-Albana Time.	HALL ENVIRONMENTAL
Client: DBS & A	Standard 🗆 Rush	ANALYSIS LABORATORY
ATTN: Mike MeVey	Project Name:	www.hallenvironmental.com
Mailing Address Academy RO, NE.	Saity Dob	4901 Hawkins NE - Albuquerque, NM 87109
STR 100, Albuaver Que, NM 871	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #: 505 - 822 - 9400	E308.0118.01.00004	Analysis Request
email or Fax#: 505 - 822 - 8877	Project Manager:	21) only) iesel) is so ₄ )
QA/QC Package:	Mike McVey, PE	
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□ EDD (Type)	Sample Temperature	+ MTBE + MTBE dethod 80 Aethod 4 Aethod 50 PNA or P R Metals (F,CI,NC 'esticides (VOA) Semi-VO
Data   Time   Matrix   Samuel Damus et ID	Container Preservative	BTEX + MTBE + TM BTEX + MTBE + TPP TPH (Method 8015B TPH (Method 418.1) EDB (Method 504.1) 8310 (PNA or PAH) RCRA 8 Metals Anions (F,CI,NO ₃ ,NC 8081 Pesticides / 808 8260B (VOA) 8270 (Semi-VOA) 200.0
Date   Time   Matrix   Sample Request ID	Type and # Type	BTEX + BTEX + TPH (Me TPH (Me B310 (PR RCRA 8 RCRA 8 8081 Pe 8260B (Ne 8260B (Ne 8270 (Se
	(18402-11	BTEX + MTBE + TP BTEX + MTBE + TP TPH Method 8015B TPH (Method 418.1) EDB (Method 504.1) B310 (PNA or PAH) RCRA 8 Metals Anions (F,CI,NO ₃ ,NC 8081 Pesticides / 80 8260B (VOA) 8270 (Semi-VOA)  ZOO.O ZOO.O
03/24/09/640 Soil DBS-8 6'-2		
03/24/04 1655 SOIL DBS-8 10-12		
03/26/01/713 Soic DB5-8 20'-22	21   8 67 bl	
03/26/09 1725 Soil DBS-8 30'-3.		
03/26/00 1740 Soil DBS-8 40'-4	21 1 66 63	
03/26/09 1755 SOIC DBS -8 50' -50		
03/21/29 0830 SOIL DES-8 60'-62	68 65	
03/27/09 0845 SOIC DBS-8 70'-7		<del></del>
03/21/09 0925 SOIL DB5- 8 80-82		<del>                                     </del>
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13/10/00 1200 Wester	1 9:45 3kolo9	PLAN QUEST TOMS
Date: Time: Relinquished by:	Received by: Date Time	Miche Coll mike mickey
		Remarks: ANY Question's Please Coll mike Mc Vey  2505-822-9400



#### **COVER LETTER**

Friday, April 17, 2009

Mike McVey Daniel B. Stephens & Assoc. 6020 Academy NE Suite 100 Albuquerque, NM 87109

TEL: (505) 822-9400 FAX (505) 822-8877

RE: Salty Dog

Dear Mike McVey:

Order No.: 0904064

Hall Environmental Analysis Laboratory, Inc. received 22 sample(s) on 4/3/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001 Texas Lab# T104704424-08-TX



Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Client Sample ID: DBS NW-1 10'-12'

Lab Order:

0904064

Collection Date: 3/31/2009 10:20:00 AM

Project: Lab ID: Salty Dog

Date Received: 4/3/2009

0904064-01

Matrix: SOIL

Analyses	Result	PQL Qu	nal Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	1300	6.0	mg/Kg	20	4/16/2009 1:19:37 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Client Sample ID: DBS NW-1 20'-22'

Lab Order:

0904064

Collection Date: 3/31/2009 10:30:00 AM

Project:

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-02

Matrix: SOIL

Analyses	Result	PQL Qual Unit	s DF	Date Analyzed
EPA METHOD 300.0: ANIONS				Analyst: RAGS
Chloride	3600	15 mg/K	g 50	4/16/2009 1:37:02 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 2 of 22

Date: 17-Apr-09

**CLIENT:** 

Daniel B. Stephens & Assoc.

Client Sample ID: DBS NW-1 30'-32'

Lab Order:

0904064

Collection Date: 3/31/2009 10:45:00 AM

Project:

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-03

Matrix: SOIL

Analyses	Result	PQL Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				Analyst: RAGS
Chloride	800	6.0 mg/Kg	20	4/16/2009 1:54:27 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- Not Detected at the Reporting Limit ND
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 3 of 22

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Lab Order: Project:

0904064

Salty Dog

Lab ID:

0904064-04

Client Sample ID: DBS NW-1 40'-42'

Collection Date: 3/31/2009 11:00:00 AM

Date Received: 4/3/2009

Matrix: SOIL

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	2500	15	mg/Kg	50	4/16/2009 2:11:51 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Estimated value Ε
- Analyte detected below quantitation limits
- Not Detected at the Reporting Limit ND
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 4 of 22

Date: 17-Apr-09

**CLIENT:** 

Daniel B. Stephens & Assoc.

Client Sample ID: DBS NW-1 50'-52'

Lab Order:

0904064

Collection Date: 3/31/2009 11:15:00 AM

Project:

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-05

Matrix: SOIL

Analyses	Result	PQL Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				Analyst: RAGS
Chloride	2400	15 mg/Kg	50	4/16/2009 3:21:29 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 5 of 22

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Client Sample ID: DBS NW-1 60'-62'

Lab Order:

0904064

Collection Date: 3/31/2009 11:30:00 AM

Project: Lab ID: Salty Dog

Date Received: 4/3/2009

0904064-06

Matrix: SOIL

Analyses	Result	PQL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	1800	6.0	mg/Kg	20	4/16/2009 3:38:53 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 6 of 22

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Lab Order:

0904064

Salty Dog

Project: Lab ID:

0904064-07

Client Sample ID: DBS NW-2 0'-2'

Collection Date: 4/1/2009 10:10:00 AM

Date Received: 4/3/2009

Matrix: SOIL

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	12	0.30	mg/Kg	1	4/15/2009 11:52:35 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 7 of 22

Date: 17-Apr-09

**CLIENT:** 

Daniel B. Stephens & Assoc.

Client Sample ID: DBS NW-2 10'-12'

Lab Order:

0904064

Collection Date: 4/1/2009 10:25:00 AM

Project:

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-08

Matrix: SOIL

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS	-				Analyst: RAGS
Chloride	6.2	0.30	mg/Kg	1	4/16/2009 12:10:00 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 8 of 22

Date: 17-Apr-09

**CLIENT:** 

Daniel B. Stephens & Assoc.

Client Sample ID: DBS NW-2 20'-22'

Lab Order:

0904064

Collection Date: 4/1/2009 10:30:00 AM

**Project:** 

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-09

Matrix: SOIL

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	12	0.30	mg/Kg	1	4/16/2009 12:27:24 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 9 of 22

Date: 17-Apr-09

**CLIENT:** 

Daniel B. Stephens & Assoc.

Client Sample ID: DBS NW-2 30'-32'

Lab Order:

0904064

Collection Date: 4/1/2009 10:45:00 AM

Project:

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-10

Matrix: SOIL

Analyses	Result	PQL Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS			-	Analyst: RAGS
Chloride	16	0.30 mg/Kg	1	4/16/2009 12:44:48 AM

Qualifiers:

Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 10 of 22

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Client Sample ID: DBS NW-2 40'-42'

Lab Order:

0904064

Collection Date: 4/1/2009 11:00:00 AM

Project:

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-11

Matrix: SOIL

Analyses	Result	PQL Q	ıal Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	1.8	0.30	mg/Kg	1	4/16/2009 6:32:58 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 11 of 22

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Client Sample ID: DBS NW-2 50'-52'

Lab Order:

0904064

Collection Date: 4/1/2009 11:15:00 AM

Project:

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-12

Matrix: SOIL

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	240	6.0	mg/Kg	20	4/15/2009 3:10:18 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 12 of 22

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Client Sample ID: DBS NW-2 60'-62'

Lab Order:

0904064

Project:

Collection Date: 4/1/2009 11:30:00 AM

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-13

Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	47	6.0	mg/Kg	20	4/15/2009 8:58:28 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Estimated value E
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 13 of 22

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Client Sample ID: SB-1/DBS-9 0'-2'

Lab Order:

0904064

Collection Date: 3/30/2009 10:50:00 AM

Project:

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-14

Matrix: SOIL

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	99	6.0	mg/Kg	20	4/15/2009 9:15:53 PM
EPA METHOD 418.1: TPH					Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/8/2009

Qualifiers:

Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 14 of 22

Date: 17-Apr-09

**CLIENT:** 

Daniel B. Stephens & Assoc.

Client Sample ID: SB-1/DBS-9 10'-12'

Lab Order:

0904064

Project:

Collection Date: 3/30/2009 11:05:00 AM

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-15

Matrix: SOIL

Analyses	Result	PQL Qu	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: TAF
Chloride	4100	15	mg/Kg	50	4/16/2009 6:24:02 PM
EPA METHOD 418.1: TPH					Analyst: LRW
Petroleum Hydrocarbons, TR	36	20	mg/Kg	1	4/8/2009

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 15 of 22

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Client Sample ID: SB-1/DBS-9 20'-22'

Lab Order:

0904064

Collection Date: 3/30/2009 11:15:00 AM

Project:

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-16

Matrix: SOIL

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	560	6.0	mg/Kg	20	4/15/2009 9:50:42 PM
EPA METHOD 418.1: TPH					Analyst: LRW
Petroleum Hydrocarbons, TR	220	20	mg/Kg	1	4/8/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 16 of 22

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Client Sample ID: SB-1/DBS-9 30'-32'

Lab Order:

0904064

Collection Date: 3/30/2009 11:30:00 AM

Project:

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-17

Matrix: SOIL

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS Chloride	480	6.0	mg/Kg	20	Analyst: RAGS 4/15/2009 10:08:07 PM
EPA METHOD 418.1: TPH Petroleum Hydrocarbons, TR	64	20	mg/Kg	1	Analyst: <b>LRW</b> 4/8/2009

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- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 17 of 22

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Client Sample ID: SB-1/DBS-9 40'-42'

Lab Order:

0904064

Collection Date: 3/30/2009 11:45:00 AM

Project: Lab ID: Salty Dog 0904064-18 Date Received: 4/3/2009

Matrix: SOIL

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS Chloride	550	6.0	mg/Kg	20	Analyst: RAGS 4/15/2009 10:25:31 PM
EPA METHOD 418.1: TPH Petroleum Hydrocarbons, TR	40	20	mg/Kg	.1	Analyst: <b>LRW</b> 4/8/2009

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 18 of 22

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

0904064

Lab Order:

Project:

Lab ID:

Salty Dog

0904064-19

Client Sample ID: SB-1/DBS-9 50'-52'

Collection Date: 3/30/2009 1:00:00 PM

Date Received: 4/3/2009

Matrix: SOIL

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	160	6.0	mg/Kg	20	4/15/2009 10:42:56 PM
EPA METHOD 418.1: TPH					Analyst: LRW
Petroleum Hydrocarbons, TR	82	20	mg/Kg	1	4/8/2009

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Value exceeds Maximum Contaminant Level

MCL Maximum Contaminant Level

RL Reporting Limit

Page 19 of 22

Ε Estimated value

Analyte detected below quantitation limits

Not Detected at the Reporting Limit

Spike recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Date: 17-Apr-09

CLIENT:

Daniel B. Stephens & Assoc.

Lab Order:

0904064

Project:

Salty Dog

Lab ID:

0904064-20

. ID CD 1/DDC 0 (0) (0)

Client Sample ID: SB-1/DBS-9 60'-62'
Collection Date: 3/30/2009 1:20:00 PM

Date Received: 4/3/2009

Matrix: SOIL

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	93	0.30	mg/Kg	1	4/16/2009 4:13:42 AM
EPA METHOD 418.1: TPH					Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/8/2009

Qua	lif	ier	s:
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- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 20 of 22

Date: 17-Apr-09

**CLIENT:** 

Daniel B. Stephens & Assoc.

Client Sample ID: SB-1/DBS-9 70'-72'

Lab Order:

0904064

Collection Date: 3/30/2009 1:40:00 PM

Project:

Salty Dog

Date Received: 4/3/2009

Lab ID:

0904064-21

Matrix: SOIL

Analyses	Result	PQL (	Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	65	3.0	mg/Kg	10	4/16/2009 5:05:55 AM
EPA METHOD 418.1: TPH					Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/8/2009

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	ши	ш	ш	C 13	

- Value exceeds Maximum Contaminant Level
- Estimated value E
- Analyte detected below quantitation limits
- Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 21 of 22

Date: 17-Apr-09

**CLIENT:** 

Daniel B. Stephens & Assoc.

Lab Order:

0904064

Salty Dog

Project: Lab ID:

0904064-22

Client Sample ID: SB-1/DBS-9 80'-82'

Collection Date: 3/30/2009 2:00:00 PM

Date Received: 4/3/2009

Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS Chloride	9.7	3.0	mg/Kg	10	Analyst: RAGS 4/16/2009 5:23:19 AM
EPA METHOD 418.1: TPH Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	Analyst: <b>L.RW</b> 4/8/2009

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

# **QA/QC SUMMARY REPORT**

Client:

Daniel B. Stephens & Assoc.

Project:

Salty Dog

Work Order:

0904064

Analyte	Result	Units	PQL	%Rec	LowLimit	Hig	hLimit	%RPD	RPDI	Limit Qual
Method: EPA Method 300.0:	Anions									
Sample ID: MB-18826		MBLK			Batch	ID:	18826	Analysis Date	<b>e</b> :	4/15/2009 5:53:11 AM
Chloride	ND	mg/Kg	0.30							
Sample ID: MB-18837		MBLK			Batch	ID:	18837	Analysis Date	<b>e</b> :	4/15/2009 8:23:40 PM
Chloride	ND	mg/Kg	0.30							
Sample ID: LCS-18826		LCS			Batch	ID:	18826	Analysis Date	<b>:</b> :	4/15/2009 6:10:36 AM
Chloride	15.39	mg/Kg	0.30	103	90	11	10			
Sample ID: LCS-18837		LCS			Batch	ID:	18837	Analysis Date	<b>)</b> :	4/15/2009 8:41:04 PM
Chloride	15.66	mg/Kg	0.30	104	90	11	10			-
Method: EPA Method 418.1: 1	ГРН									
Sample ID: MB-18766		MBLK			Batch	ID:	18766	Analysis Date	<b>)</b> :	4/8/2009
Petroleum Hydrocarbons, TR	ND	mg/Kg	20							
Sample ID: LCS-18766		LCS			Batch	ID:	18766	Analysis Date	<b>)</b> :	4/8/2009
Petroleum Hydrocarbons, TR	103.7	mg/Kg	20	104	82	11	14			
Sample ID: LCSD-18766		LCSD			Batch	ID:	18766	Analysis Date	<b>:</b> :	4/8/2009
Petroleum Hydrocarbons, TR	105.1	mg/Kg	20	105	82	11	4	1.32	20	

### Qualifiers:

R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Page 1

E Estimated value

J Analyte detected below quantitation limits

H Holding times for preparation or analysis exceeded

### Sample Receipt Checklist

Client Name DBS				Date Receive			4/3/2009	
Work Order Number 0904064	$\searrow$			Received by	y: AT		AX	
Checklist completed by: Signature	Ø	i	4/3/0	Sample ID	abels checked	by:	Initials	
Matrix:	Carrier name:	Clie	nt drop-of	Ī.				
Shipping container/cooler in good condition?		Yes	<b>✓</b> .	No 🗌	Not Present			
Custody seals intact on shipping container/coo	ler?	Yes		No 🗌	Not Present		Not Shipped	$\checkmark$
Custody seals intact on sample bottles?		Yes		No 🗌	N/A	¥		
Chain of custody present?		Yes	$\checkmark$	No 🗌				
Chain of custody signed when relinquished and	received?	Yes	$\checkmark$	No 🗔				
Chain of custody agrees with sample labels?		Yes	$\checkmark$	No 🗌				
Samples in proper container/bottle?		Yes	$\checkmark$	No 🗌				
Sample containers intact?		Yes	$\checkmark$	No 🗆				
Sufficient sample volume for indicated test?		Yes	$\checkmark$	No 🗌				
All samples received within holding time?		Yes	$\checkmark$	No 🗔				
Water - VOA vials have zero headspace?	No VOA vials subm	itted	$\checkmark$	Yes 🗌	No 🗔			
Water - Preservation labels on bottle and cap n	natch?	Yes		No 🗌	N/A 🗹			
Water - pH acceptable upon receipt?		Yes		No 🗔	N/A 🗹			
Container/Temp Blank temperature?			-	<6° C Acceptab				
COMMENTS:				If given sufficien	t time to cool.			
=======================================			==:	_===:	====		====	===
Client contacted	Date contacted:			Pers	son contacted			
Contacted by:	Regarding:							
Comments:								
Corrective Action					-			

С	hain-	of-Cu	stody Record	Turn-Around	Time:	<u> </u>	<u></u>	] _		ı										
Mailing STIC Phone #	Address Address F 100 F Fax#: 2	35 m		Project Name:  Salty Doc  Project #:  ESOB, 0118, 01, 0000 F  Project Manager:  M. He Me Vey, ME.																
QA/QC F Standard Accredi NEL	dard tation AP		□ Level 4 (Full Validation)	Sampler: (	(MBa	rnh://		BE + TMB's (8021)		d 418.1)	d 504.1)	or PAH)	tals	3,NO ₂ ,	/ 8082	(VOA)	301			(Y or N)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type			BTEX + MTI	BTEX + MTBE	TPH (Method	EDB (Method 504	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,C	8081 Pesticides	8260B (VOA)	2			Air Bubbles (Y
			DBS NW-10:		None									+	+	-	X	+	+	MA
13/69	10:30 10:45	SOIL	OBS NW-1 10'-D DBS NW-1 20'-3 DBS NW-1 30'-3 DBS NW-1 40'-4	2'		413 2	3													
3/3//09 3/3//09	11:15	Son	DBS NW-150-5 DBS NW-160-	\$ /		7	5 5 1 i										V			V
Date: Date:	Time:	Relinquish		Received by:	In h	Date Date Date	Time /S/O Time	Ren	narks:	H. C.	14	Q1 15-	1 (as	1,16	102.	s ,	P/10 Verg 94	( a ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c ) ( c )		

Mailing Phone # email or QA/QC F	ATTA	St. M. M. deny Hours	1 Kc MC Vey Ro24 NE  2 VE Roy 87/0, 22 - 9400 822 - 8877  □ Level 4 (Full Validation)	Project Mana Project Mana Project Mana Sampler:	Rush	Dob - 01.0 - Vey,	PE PL	= + TMB's (8021)	+ TPH (Gas only)	Haw 505-3	www kins N 445-39	V.halle	YS] environal Albud Fair	nmer querques 505 s Rei	LAI ntal.c ue, N 5-345 ques	om M 87 -410	109 7	NTA	Y	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type			BTEX + MTBE	( + MTB	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chlorin		A ir Bubblos (V or N)	יין פסוממסט ווען
			DBSNW-20-2	J34	None	8				-			_	+	-		Ż	_	7	1
			DBS NW-210-12	1		4/3 10	8		_	+		-	-	+	+-		H			H
			DBS NW-2 20-2			1. 00				+-	-				+	$\vdash$	H		$\vdash$	H
0//09	10:45	501L	DBS NW-2 30-3	2/		W IX	10	<del>                                     </del>		+	+-		-	+	-	$\vdash$	H	<del></del>	$\vdash \uparrow$	Н
1/4/107	11:18	Soil	DBS NW 2 564	57'		13					-									П
1/01/04	1/30	Soil	DBS NW-2 60'-	52 / V	V	19											V		,	Z
						_														
Date: Date:	Time: /b00 Time:	Relinquish	by:	Received by:	sm I	Date Date	Time 9 /3/O Time	Ren	narks:	A	50	M.	RV Ville	- 16 - 16 - 2	Tion MC I	16 mg		leese 2		

PAGE 3 OP 3 Turn-Around Time: **Chain-of-Custody Record** HALL ENVIRONMENTAL Client: DBSE A Standard ☐ Rush ANALYSIS LABORATORY Project Name: Salfy Dob www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Project #: Al Bulvacove, NM 87/09 Tel. 505-345-3975 Fax 505-345-4107 E508, 0118,01.0004 Phone #: 505 - 822 - 9400 email or Fax#: 505 - 822 - 8877 **Analysis Request** + TPH (Gas only) SO₄) Project Manager: TMB's (8021) Mike Mc Veg, PE PCB's QA/QC Package: PO4, □ Level 4 (Full Validation) ∠Z'Standard 8082 Anions (F,CI,NO3,NO2, Accreditation EDB (Method 504.1) Î 8310 (PNA or PAH) □ NELAP □ Other (Semi-VOA) Pesticides / ō + MTBE · RCRA 8 Metals Air Bubbles (Y □ EDD (Type) 3260B (VOA) Preservative Container Date Sample Request ID Time Matrix 8081 Type and # Type None 1115 SOK SB-1/DBS-920-22 Received by Remarks: Any Questions Please Call Mike mivey e Time Received b 545-822-9400

Groundwater



### **COVER LETTER**

Wednesday, April 22, 2009

Mike McVey Daniel B. Stephens & Assoc. 6020 Academy NE Suite 100 Albuquerque, NM 87109

TEL: (505) 822-9400 FAX (505) 822-8877

RE: Salty Dog Brine Station

Dear Mike McVey:

Order No.: 0904165

Hall Environmental Analysis Laboratory, Inc. received 21 sample(s) on 4/10/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001 Texas Lab# T104704424-08-TX



Hall Enviro	Date: 22-Apr-09  Lab Order: 0904165							
Project:	Daniel B. Stephens Salty Dog Brine Sta					,	ib Oid	0704103
Lab ID:	0904165-01				Collect	ion Date:	4/8/20	009 2:57:00 PM
Client Sample ID	: PMW-1					Matrix:	AQUI	EOUS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 30 Chloride	0.0: ANIONS	11000	50		mg/L		500	Analyst: TAF 4/21/2009 1:27:50 PM
Lab ID:	0904165-02				Collect	ion Date:	4/7/20	009 1:18:00 PM
Client Sample ID	: MW-2					Matrix:	AQUE	EOUS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 30 Chloride	0.0: ANIONS	1200	5.0		mg/L		50	Analyst: TAF 4/22/2009 2:31:16 AM
Lab ID:	0904165-03			. (	Collect	ion Date:	4/7/20	09 2:13:00 PM
Client Sample ID	: MW-3					Matrix:	AQUE	EOUS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	D.0: ANIONS	17000	50		mg/L		500	Analyst: TAF 4/21/2009 2:02:39 PM
Lab ID:	0904165-04				Collecti	on Date:	4/7/20	09 3:00:00 PM
Client Sample ID	: MW-4					Matrix:	AQUE	EOUS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	6600	50		mg/L		500	Analyst: TAF 4/22/2009 2:13:52 AM
Lab ID:	0904165-05			(	Collecti	on Date:	4/7/200	09 3:45:00 PM
Client Sample ID:	MW-5					Matrix:	AQUE	COUS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	1300	5.0		mg/L		50	Analyst: TAF 4/22/2009 3:23:30 AM
Lab ID:	0904165-06				Collecti	on Date:	4/7/200	09 4:23:00 PM
Client Sample ID:	MW-6					Matrix:	AQUE	OUS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0; ANIONS	25	0.10		mg/L		1	Analyst: TAF 4/21/2009 2:54:52 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 1 of 4

Date: 22-Apr-09

	Daniel B. Stephens of Salty Dog Brine Stat					La	ab Orde	er: 0904165
Lab ID:	0904165-07				Collection	n Date:	4/8/20	09 10:55:00 AM
Client Sample ID:	DBS-1				N	Aatrix:	AQUE	EOUS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	320	1.0		mg/L		10	Analyst: TAF 4/21/2009 3:12:17 PM
Lab ID:	0904165-08			. (	Collection	Date:	4/8/20	09 10:13:00 AM
Client Sample ID:	DBS-2				N	/latrix:	AQUE	COUS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	14	0.10		mg/L		1	Analyst: TAF 4/21/2009 3:29:41 PM
Lab ID:	0904165-09			- (	Collection	Date:	4/8/20	09 8:44:00 AM
Client Sample ID:	DBS-3				N	latrix:	AQUE	OUS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	.0: ANIONS	36	0.10		mg/L		1	Analyst: TAF 4/21/2009 3:47:05 PM
Lab ID:	0904165-10			(	Collection	Date:	4/8/20	09 9:28:00 AM
Client Sample ID:	DBS-4				N	latrix:	AQUE	ous
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	38	0.10		mg/L	-	1	Analyst: TAF 4/21/2009 4:04:30 PM
Lab ID:	0904165-11			(	Collection	Date:	4/8/200	09 7:58:00 AM
Client Sample ID:	DBS-5				M	latrix:	AQUE	OUS
Analyses		Result	PQL	Quai	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	65	1.0		mg/L		10	Analyst: TAF 4/21/2009 6:06:22 PM
Lab ID:	0904165-12				Collection	Date:	4/7/200	09 6:32:00 PM
Client Sample ID:	DBS-6				M	latrix:	AQUE	ous
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	380	2.0		mg/L		20	Analyst: TAF 4/21/2009 6:23:46 PM
•	/alue exceeds Maximum	Contaminant Level			-			sociated Method Blank tion or analysis exceeded

Spike recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

Analyte detected below quantitation limits

MCL Maximum Contaminant Level

RL Reporting Limit

Date: 22-Apr-09

CLIENT: Project:	Daniel B. Stephens & Salty Dog Brine Stati		<u> </u>			Lab Ord	er: 0904165
Lab ID:	0904165-13				Collection Da	ate: 4/7/20	09 5:07:00 PM
Client Sample ID:	: DBS-7				Mat	rix: AQUI	EOUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	570	5.0		mg/L	50	Analyst: TAF 4/21/2009 6:41:10 PM
Lab ID:	0904165-14				Collection Da	te: 4/7/20	09 5:52:00 PM
Client Sample ID:	DBS-8				Mat	rix: AQUE	EOUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300 Chloride	0.0: ANIONS	58	1.0		mg/L	10	Analyst: TAF 4/21/2009 6:58:34 PM
Lab ID:	0904165-15	······································		(	Collection Da	te: 4/8/20	09 6:01:00 PM
Client Sample ID:	DBS-9				Mati	rix: AQUE	EOUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 801	5B: DIESEL RANGE						Analyst: SCC
Diesel Range Organ	nics (DRO)	ND	1.0		mg/L	1	4/13/2009
Motor Oil Range Or	ganics (MRO)	ND	5.0		mg/L	1	4/13/2009
Surr: DNOP		115	58-140		%REC	1	4/13/2009
EPA METHOD 801	5B: GASOLINE RAN	GE					Analyst: DAN
Gasoline Range Org	ganics (GRO)	ND	0.050		mg/L	1	4/15/2009 2:17:54 AM
Surr: BFB		89.1	59.9-122		%REC	1	4/15/2009 2:17:54 AM
EPA METHOD 300	.0: ANIONS						Analyst: TAF
Chloride		210	10		mg/L	100	4/21/2009 7:15:59 PM
Lab ID:	0904165-16				Collection Da	te: 4/8/20	09 12:56:00 PM
Client Sample ID:	NW-1 Shallow				Matr	ix: AQUE	ous
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300	.0: ANIONS						Analyst: TAF
Chloride		630	5.0		mg/L	50	4/21/2009 7:33:24 PM

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- Value exceeds Maximum Contaminant Level
- E Estimated value
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- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 22-Apr-09

	Daniel B. Stephens & Salty Dog Brine Stat					La	b Orde	r: 0904165
Lab ID:	0904165-17				Collection	Date:	4/8/200	9 12:31:00 PM
Client Sample ID:	NW-1 Middle				Ma	atrix:	AQUE	ous
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	57	1.0		mg/L		10	Analyst: TAF 4/21/2009 8:25:37 PM
Lab ID:	0904165-18				Collection 1	Date:	4/8/200	9 12:00:00 PM
Client Sample ID:	NW-1 Deep				Ma	atrix:	AQUE	ous
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	38	0.10		mg/L		1	Analyst: TAF 4/21/2009 8:43:02 PM
Lab ID:	0904165-19			(	Collection 1	Date:	4/8/200	9 5:07:00 PM
Client Sample ID:	NW-2 Shallow				Ma	atrix:	AQUE	ous
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	.0: ANIONS	410	5.0		mg/L		50	Analyst: TAF 4/21/2009 9:00:26 PM
Lab ID:	0904165-20				Collection I	Date:	4/8/200	9 4:51:00 PM
Client Sample ID:					Ma	trix:	AQUE	OUS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	570	2.0		mg/L		20	Analyst: TAF 4/22/2009 11:06:09 AM
Lab ID:	0904165-21	<del></del>		(	Collection I	Date:	4/8/200	9 4:19:00 PM
Client Sample ID:	NW-2 Deep				Ma	trix:	AQUE	ous
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	4700	20		mg/L		200	Analyst: TAF 4/21/2009 9:35:16 PM

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- * Value exceeds Maximum Contaminant Level
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- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 22-Apr-09

# **QA/QC SUMMARY REPORT**

Client:

Daniel B. Stephens & Assoc.

Project:

Salty Dog Brine Station

Work Order:

0904165

Analyte	Result	Units	PQL	%Rec	LowLimit HighLimit	%RPD RPDLimit Qual
Method: EPA Method 300.0: Ar	nions					
Sample ID: 0904165-08AMSD		MSD			Batch ID: R33344	Analysis Date: 4/21/2009 5:14:09 PM
Chloride	18.72	mg/L	0.10	87.9	75 125	1.09 20
Sample ID: MB		MBLK			Batch ID: R33344	Analysis Date: 4/21/2009 12:53:01 PM
Chloride	ND	mg/L	0.10			
Sample ID: MB		MBLK			Batch ID: R33358	Analysis Date: 4/22/2009 10:31:19 AM
Chloride	ND	mg/L	0.10			
Sample ID: LCS		LCS			Batch ID: R33344	Analysis Date: 4/21/2009 1:10:25 PM
Chloride	5.075	mg/L	0.10	101	. 90 110	
Sample ID: LCS		LCS			Batch ID: R33358	Analysis Date: 4/22/2009 10:48:44 AM
Chloride	4.969	mg/L	0.10	99.4	90 110	·
Sample ID: 0904165-08AMS		MS			Batch ID: R33344	Analysis Date: 4/21/2009 4:56:44 PM
Chloride	18.92	mg/L	0.10	92.0	75 125	
Method: EPA Method 8015B: D	iesel Range					
Sample ID: MB-18809	•	MBLK			Batch ID: 18809	Analysis Date: 4/13/2009
Diesel Range Organics (DRO)	ND	mg/L	1.0			
Motor Oil Range Organics (MRO)	ND	mg/L	5.0			
Sample ID: LCS-18809		LCS			Batch ID: 18809	Analysis Date: 4/13/2009
Diesel Range Organics (DRO)	5.228	mg/L	1.0	105	74 157	
ample ID: LCSD-18809		LCSD			Batch ID: 18809	Analysis Date: 4/13/2009
Diesel Range Organics (DRO)	5.455	mg/L	1.0	109	74 157	4.25 23
Method: EPA Method 8015B: G	asoline Ran	ge				
Sample ID: 5ML RB		MBLK			Batch ID: R33239	Analysis Date: 4/14/2009 9:30:26 AM
Gasoline Range Organics (GRO)	ND	mg/L	0.050			
Sample ID: 2.5UG GRO LCS		LCS			Batch ID: R33239	Analysis Date: 4/14/2009 6:38:55 PM
Gasoline Range Organics (GRO)	0.5620	ma/L	0.050	112	80 115	
Gasoline Range Organics (GRO)	0.5620	mg/L	0.050	112	80 115	·

	Qu	alií	liers:
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³ Estimated value

Page 1

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

### Sample Receipt Checklist

Client Name DBS		Date Received	:	4/10/2009	
Work Order Number 0904165		Received by:	TLS	1	
Checklist completed by: Signature	4	Date O	bels checked by	Initials	
Matrix: Carrier name:	<u>UPS</u>				
Shipping container/cooler in good condition?	Yes 🛚	Ø No □	Not Present		
Custody seals intact on shipping container/cooler?	Yes 🖢	<b>∠</b> No □	Not Present	Not Shipped	
Custody seals intact on sample bottles?	Yes	□ No □	N/A		
Chain of custody present?	Yes 🛚	☑ No □			
Chain of custody signed when relinquished and received?	Yes 🛚	No 🗌			
Chain of custody agrees with sample labels?	Yes 🖢	No 🗆			
Samples in proper container/bottle?	Yes Y	No 🗌			
Sample containers intact?	Yes 🖢	Ø No □			
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌			
All samples received within holding time?	Yes 🖢	. No 🗆			
Water - VOA vials have zero headspace? No VOA vials subn	nitted [	Yes 🗹	No 🗌		
Water - Preservation labels on bottle and cap match?	Yes [	□ No □	N/A		
Water - pH acceptable upon receipt?	Yes [	□ No □	N/A 🗹		
Container/Temp Blank temperature?	2°				
COMMENTS:		If given sufficient	time to cool.		
		<del>.</del>			
Olivent analysis of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second		Dama	a contracted		
Client contacted Date contacted:		Perso	n contacted		
Contacted by: Regarding:					
Comments:		•			
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Corrective Action					

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Accredi		□ Othei	_	45 SAMOSE SHIRINGS	oler:	MF	Parn	hill Pb	TMB's (8021)	TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	<u>£</u>		Î	Anions (F.C.I.NO, NO, PO, SO,)	/ 8082			Ø			î
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Date	Time	Matrix	Sample Request ID	1	ntainer	Prese		E WEAR TO	+ ×	+   ×	Met	₩ W	<u>₹</u>			Ğ	S	Se (Se	10			qqn
			•	l ybe	e and #	'	/pe		BTEX	BTEX + MTBE +	핕	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	Anions (F.C.I.NC	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	C			Air Bubbles (Y or N)
4/08/09	1451	H20	PMW-1	18/	125 m	N	inc	HUITE ANTHER S. T. STEERS HAVE S. ARE AN ANTICOMPRESSION											T			MA
4/07/09			mw-2		1		$\overline{I}$	2											$\prod$			1
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4/07/09	رسیس ا	120	mw-5					5														$\prod$
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4/03/29	0844							9														
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Mailing  Phone	Address 100, #: 50 r Fax#: 2 Package: dard	15 &	A	Project #:  Project Manager  Project Manager	□ Rush.	Brine Station	1)	H (Gas only)	Hawk	www.	AL' v.halle JE - 975 Ar	Pax Pax Pax Pax Pax Pax Pax Pax Pax Pax	mmen uerqu 505 s Rec	tal.co ie, Ni -345- uest	30 om M 87 -4107	<b>RA</b> 1	TAL	Y
□ NEL		□ Othe	Sample Request ID		ACT. No. 5-270 ::: April 1000 [1] ACC. ACT ACT ACT ACT ACT ACT ACT ACT ACT ACT	Take Take T	BTEX + MTBE + TI	BTEX + MTBE + TP	(Method 41	EDB (Method 504.1	8310 (PNA or PAH)	RCRA 8 Metals	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	A lopine E.		Air Bubbles (Y or N)
-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		H20 H30 H20	DBS-7 DBS-8 DBS-9	1/25 ml plastic 1/350 m prove 3x Voiss	None None None Har/Mrs	13 14 15	BI	Σ (F	7	Ш	83	A R	8	82	82	X X X		V/A
4/08/05 4/08/05 4/08/05 4/08/05	1256 1231 1200	1/20 1/20	NW-1 Middle NW-1 Deep NW-2 Shallow		None	15 16 17 18 19										X		<b>%</b>
	716/9 71me: 71431 Time:	H20 H20 Relinquish		Received by:	4/	Date Time  Date Time  Date Time	Ren	narks:	P/6 505	410	823	2-6	1194	I K	e To	Me	Vey Disu zi 5-9	عد

Appendix C
Well Data Forms

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11. Water Level (from TOC)   16. Water Level (from TOC)   16. Water Level (from TOC)   17. Water Column Height   16. 1/2	Date: 10:30	Date: Tim	e: // pp	Date: Tir	ne:			
11. Water Level (from TOC)   16. Water Level (from TOC)   16. Water Level (from TOC)   17. 3   17. 3   17. 3   18. Well Volumes   18. 4   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18. 5   18	10 Total Depth of Well (from TOC)	15 Total Depth of Well	(from TOC)	20 Total Depth of Well (from	TOC)			
11. Water Level (from TOC)   16. Water Level (from TOC)   17. 3 B/s   17.3 Well Volumes   18. Water Level (from TOC)   18. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from TOC)   19. Water Level (from Toc)   19. Water Level (from Toc)   19. Water Level (from Toc)   19. Water Level (from Toc)   19. Water Level (from Toc)   19. Water Level (from Toc)   19. Water Level (from Toc)   19. Water Level (from Toc)   19. Water Level (from Toc)   19. Water Level (from Toc)   19. Water Level (from Toc)   19. Water L				20. Total Deptity Well (IIOII	, 100,			
12. Water Column Height				/				
12. Water Column Height	11. Water Level (from TOC)	16. Water Level (from T	OC) 1 1	21. Water Level (from TOC)				
16. 12	62.58	1 62	165					
13. Well Diameter    13. Well Diameter   13. Sch 40   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   18.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Volumes   19.5 Well Vo	12. Water Column Height N	om x = nal/ft	17.3 Well Volumes	22. Size and Type	of			
13. Well Diameter		ia 8ch 40 Sch 80			er			
1.4 Well Volume (gal) 2.5162   8				5-				
1.4 Well Volume (gal)   2.5162   8° 2.61   2.3720   19. Purge Volume (sli w.e. height)   2.5 Mas water added to well?   26. Was the Groundwater Sampled (Gas) No If yes, what was the sample number & Date:   10.61/60.5   19. Purge Volume   24. Was Well   25. Was water added to well?   26. Was the Groundwater Sampled (Gas) No If yes, what was the sample number & Date:   10.61/60.5   19. Purge Volume   25. Was water added to well?   26. Was the Groundwater Sampled (Gas) No If yes, what was the sample number & Date:   10.61/60.5   19. Purge Volume   25. Was water added to well?   26. Was the Groundwater Sampled (Gas) No If yes, what was the sample number & Date:   10.61/60.5   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volume   19. Purge Volu		0.1534		, Red, +102,	1.87			
14. Well Volume (gal) 2, 5762/ 8° 2.61 2.3720 19. Purge Volume (si w.e. height) 5-162/ 8° 2.61 2.3720 19. Purge Volume (si w.e. height) 5-162/ 8° 2.61 2.3720 19. Purge Volume (si w.e. height) 5-162/ 8° 2.61 2.3720 19. Purge Volume (si w.e. height) 5-162/ 8° 2.61 2.3720 19. Purge Volume (si w.e. height) 5-162/ 8° 2.61 2.3720 19. Purge Volume (si w.e. height) 5-162/ 8° 2.61 2.62 2.62 2.62 2.62 2.62 2.62 2.62	2" SCH 40 PYC MU "	" 0.65 0.59/2 " 1.47 1.3540	12.89 6a116	NS. Submers.	ble			
Final Field Analysis  23. Total Amount of Water Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Remove	14. Well Volume (gal) 2 Cac / 8'		19. Purge Volume	Coto T	0			
23. Total Amount of Water Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Removed Remo	(s) w.e. height) 2,5/62/		10 00/104	3 376 77	<u> </u>			
Pumped Dry   Yes   Yes   If yes, what was the sample number & Date: Sampling Personnel?   DSS   DSS   Observations   DSS   DSS   Observations   DSS   DSS   Observations   DSS   DSS   Observations   DSS   DSS   Observations   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   DSS   D	·							
Conductivity   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   Photo Note   P								
27. Final Parameters Time Temp C Conductivity pH NTUs WL Removed Flow Rate Observations  10:34   9.99   1.383 8.35 Clear 62.63   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons   0.60/lons	. l v '		If yes, w	hat was the sample number & I	Date:			
27. Final Parameters Time Temp C Conductivity pH NTUs WL Removed Flow Rate Observations  IF PETROLEUM IS IN THE WELL, DO NOT TAKE pH AND CONDUCTIVITY PARAMETERS  28. Physical Appearance and Remarks  TOKB ID In, 170/47 Clear C Sample.  29. Purgewater disposal method:  ON GROUND SURFACE  Sampling / Development Parameters  Time Temp C Conductivity pH NTUs (from TOC) (gallons) Oxygen (gpm) Observ. (1)  10:41 2/53 1-343 8, // TURBID C 2.38 In, 17a 4.39 1.0 TORB.  10:42 20.30 1.394 8.33 TURBID — 3.5 2.37 1.0 TORB.  10:51 19:72 1.388 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.6 2.63 11.0 2.7 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.6 2.63 11.0 2.7 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.5 2.67 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.6 2.63 11.0 2.7 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.6 2.63 11.0 2.7 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.6 2.63 11.0 2.7 1.0 Clear  10:54 19.99 1.383 8.35 Clear 7.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2	10 601/045	if yes, source.	Sambin	g Personner! DDS //	07/04			
Time Temp C Conductivity pH NTUs WL Removed Flow Rate Observations  IP PETROLEUM IS IN THE WELL, DO NOT TAKE pH AND CONDUCTIVITY PARAMETERS  28. Physical Appearance and Remarks  TOKBID In, 1) oly - Clear & Sample.  29. Purgewater disposal method:    Conductivity pH NTUs	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	('///	Darnhille-10	155			
10.54				Pho				
IF PETROLEUM IS IN THE WELL, DO NOT TAKE PH AND CONDUCTIVITY PARAMETERS  28. Physical Appearance and Remarks  TOKBID In, 10/4 Close C Sample.  29. Purgewater disposal method:  ON GROUND SUNFACE  Sampling / Development Parameters  WL Volume Dissolved Flow Rate Photo #, Volume Oxygen (gpm) Observ. (1 10:41 21:53 1:343 8, 1/1 TURBID 62:38 In, 10/4 4:39 1.0 TURBID 10:48 20:30 1:344 8:37 TURBID 2:50 2:37 1.0 TURBID 10:48 20:30 1:394 8:33 TURBID 5.0 2:36 1.0 TURBID 10:51 19:72 1:384 8:35 Close 52:63 18:0 2:63 18:0 2:63 18:0 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0	Time Temp C Conduct	tivity pH NT	Us WL Removed					
IF PETROLEUM IS IN THE WELL, DO NOT TAKE PH AND CONDUCTIVITY PARAMETERS  28. Physical Appearance and Remarks  TOKBID In, 10/4 Close C Sample.  29. Purgewater disposal method:  ON GROUND SUNFACE  Sampling / Development Parameters  WL Volume Dissolved Flow Rate Photo #, Volume Oxygen (gpm) Observ. (1 10:41 21:53 1:343 8, 1/1 TURBID 62:38 In, 10/4 4:39 1.0 TURBID 10:48 20:30 1:344 8:37 TURBID 2:50 2:37 1.0 TURBID 10:48 20:30 1:394 8:33 TURBID 5.0 2:36 1.0 TURBID 10:51 19:72 1:384 8:35 Close 52:63 18:0 2:63 18:0 2:63 18:0 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:71 1:0 Close 10:54 19:99 1:383 8:35 Close 52:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0 2:63 18:0	10:34 19.99 1.3	83 8,35 C	lear 62.63 10601	Hows 1.06PM C	len			
28. Physical Appearance and Remarks  Tokbin In, Holly - Clear & Sample.  29. Purgewater disposal method:    ON GROUND Surface								
29. Purgewater disposal method:    Continue   Conductivity   Ph   NTUs   (from TOC)   (gallons)   Oxygen   (gpm)   Observ. (1   O.42   21.53   1.343   8.     Turbio   (2.38   In.Ta   4.39   1.0   Turbio   1.316   8.27   Turbio   2.38   In.Ta   4.39   1.0   Turbio   (1.348   20.30   1.394   8.33   Turbio   5.0   2.36   1.0   Turbio   (1.348   1.972   1.384   8.35   Clerk   7.5   2.67   1.0   Clerk   (1.349   1.383   8.35   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   8.35   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.63   1.0   2.71   1.0   Clerk   (1.349   1.383   Clerk   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0   2.63   1.0	28. Physical Appearance and Remarks							
Sampling   Development Parameters   WL   Volume   Dissolved   Flow Rate   Photo #, Volume   Dissolved   Flow Rate   Photo #, Volume   Dissolved   Flow Rate   Photo #, Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Observ. (1   Volume   Dissolved   Gpm   Observ. (1   Volume   Dissolved   Observ. (1   Volume   Dissolved   Observ. (1   Volume   Dissolved   Observ. (1   Volume   Dissolved   Observ. (1   Volume   Dissolved   Observ. (1   Volume   Dissolved   Observ. (1		LOKBID Ini	Mally Cleba	e Jamp/c.				
Sampling   Development Parameters   WL   Volume   Dissolved   Flow Rate   Photo #,   Volume   Dissolved   Flow Rate   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Photo #,   Volume   Dissolved   Dissolved   Photo #,   Volume   Dissolved   Dissolved   Dissolved   Dissolved   Dissolved   Dissolved   Dissolved   Dissolved   Dissolved   Dissolved   Dissolved   Dissolved   Dissolved   Dissolved	29 Purgewater disposal method:							
Time Temp C Conductivity pH NTUs (from TOC) (gallons) Oxygen (gpm) Observ. (1 10:42 31.53 1.343 8.1/ Turbio 62.38 In. The Grant Gallons (gpm) Observ. (1 10:45 20.99 1.314 8.37 Turbio — 2.5 2.37 1.0 Turbio — 3.5 2.37 1.0 Turbio — 3.5 2.37 1.0 Turbio — 5.0 2.34 1.0 Turbio — 5.0 2.34 1.0 Turbio — 5.0 2.34 1.0 Turbio — 5.0 2.34 1.0 Turbio — 5.0 2.34 1.0 Turbio — 5.0 2.34 1.0 Turbio — 5.0 2.34 1.0 Turbio — 5.0 2.34 1.0 Turbio — 5.0 2.34 1.0 Turbio — 5.0 2.34 1.0 Turbio — 5.0 2.34 1.0 Turbio — 5.0 2.37 1.0 Clean 10:51 19.72 1.383 8.35 Clean 12.63 10.0 2.71 1.0 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:54 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 1.383 8.35 Clean 10:55 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99	23. Forgewater disposal metroo.	ON 6.	ROUND Jurta	<u></u>				
Time Temp C Conductivity pH NTUs (from TOC) (gallons) Oxygen (gpm) Observ. (1 10:42 21:53 1:343 8,1/ Turbio 62:38 /n.Tha 4:39 1:0 Turbio 10:48 20:49 1:314 8:33 Turbio 10:48 20:30 1:394 8:33 Turbio 15:0 2:37 1:0 Turbio 16:48 20:30 1:394 8:33 Turbio 16:48 20:30 1:384 8:33 Clerk 16:5/ 19:72 1:388 8:35 Clerk 16:5/ 19:72 1:383 8:35 Clerk 17:5/ 10:5/ 19:99 1:383 8:35 Clerk 17:6/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0 Clerk 17:5/ 11:0		Sampling / Devel	lopment Parameters					
10:42 21.53 1.343 8,     Turnio 62.38   In. tha	M5/CM							
10:45 20,99 1.366 8.27 TVRBID — 2.5 2.37 1.0 TVRBID — 5.0 2.36 1.0 TVRBID — 5.0 2.36 1.0 TVRBID — 5.0 2.36 1.0 TVRBID — 5.0 2.67 1.0 C/Co. 10:51 19.72 1.386 8.35 C/CIR — 7.5 2.67 1.0 C/Co. 10:54 19.99 1.383 8.35 C/CIR 62.63 10.0 2.7/ 1.0 C/CO. NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing			111-11-11					
10:48 20:30 1.394 8.33 Turbib — 5.0 2.36 1.0 Torbib 10:51 19:71 1.386 8.35 Clerk — 7.5 2.67 1.0 Clerk 10:54 19:99 1.383 8.35 Clerk 2.63 10.0 2.7/ 1.0 Clerk  (1) Note volume and physical character of sediments removed.  NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing	10.42 21.33 1.345	8,11 /URBID	62.38 IniTial	4.39 1.0	ULB			
10:48 20:30 1.394 8.33 Turbip — 5.0 2.36 1.0 Turbip 10:51 19:72 1.386 8.35 Clerk 7.5 2.67 1.0 Clerk 10:54 19:99 1.383 8.35 Clerk 2.63 10.0 2.7/ 1.0 Clerk 10:54 19:99 1.383 8.35 Clerk 10:54 10:54 19:99 1.383 8.35 Clerk 10:54 10:0 2.7/ 1.0 Clerk 10:54 19:99 1.383 8.35 Clerk 10:54 10:0 2.7/ 1.0 Clerk 10:54 19:99 1.383 8.35 Clerk 10:54 10:0 2.7/ 1.0 Clerk 10:54 10:0 2.7/ 1.0 Clerk 10:54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54 10:0 2.54	10:45 20,99 1.366	8,27 TURBIE	2,5	2.37 1.0	TURB			
10:51 19.72 1.386 8.35 Clerk 7.5 2.67 1.0 Clerk 10:54 19.99 1.383 8.35 Clerk 2.63 10.0 2.7/ 1.0 Clerk 11:54 19.99 1.383 8.35 Clerk 12:63 10:0 2.7/ 1.0 Clerk 11:0 Clerk 12:63 10:0 2.7/ 1.0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0 Clerk 11:0				92/ 10				
(1) Note volume and physical character of sediments removed.  NTU = Nephelometric turbidity units  WL = Water Level from Top of PVC Casing			5.0	2.30 1.0				
(1) Note volume and physical character of sediments removed.  NTU = Nephelometric turbidity units  WL = Water Level from Top of PVC Casing	10:51 19.72 1.386	8,33 C/CIL	7.5	2.67 1.0	clean			
(1) Note volume and physical character of sediments removed.  NTU = Nephelometric turbidity units  WL = Water Level from Top of PVC Casing	10:54 19.99 1.283	8.35 clerk	42.63 10.0	2.7/ 1.0	Clean			
NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing								
NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing			·					
NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing								
NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing								
NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing								
WL = Water Level from Top of PVC Casing		diments removed.						
Charlest Div		$\mathcal{N}$						
		What		Date				
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		WATEN BULLING	-P6-	Date 04/08/	05			

Type Well	Type of Data  Development	Well No. DBS-2 Sheet 1
☐ Production ☐ Other	Sampling Pump Test	of Sheets
1. Project DBS c A	☐ Other	<del></del>
	2. Project Location	Area 04/08/09
Solty Dob Brine Station	,	ATT 61/00/01
CM Barnhill, PG	Lex G, N.M.	
7. Method Pumping Surging Air Lift Bailing Other	8.Manufacturer's Designation of Rig	9. Location of Well (Site, Description)
		DBS-2
Initial	Water Levels Final	Final + 24 Hours
Date: 0950	Date: 04/08/09 Time: 10:15	Date: Time:
10. Total Depth of Well (from TOC)	15. Total Depth of Well (from TOC)	20. Total Depth of Well (from TOC)
11. Water Level (from TOC) 65, 45	16. Water Level (from TOC)	21. Water Level (from TOC)
12. Water Column Height Nom Dia	x = gal/ft 17.3 Well Volumes 6.88 6	
13. Well Diameter 2" SCH 40 PVL MW 6"	0.1534 18.5 Well Volumes	Reditle 2 11k"
2" SCH 40 PVL MW 6.	1.47 1.3540 // // 0 (	Sollons Sub mersible
14. Well Volume (gal) 2. 296// 8"	2.61 2.3720 19. Purge Volume	allons setet.o.
23. Total Amount of Water 24. Was We	Final Field Analysis	26. Was the Groundwater Sampled ( No
Removed Pumped Dry	? (No Yes I	f yes, what was the sample number & Date:
10 Gallons Yes Cho	If yes, source:	campling Personnel? DBS-2, 04/08/09
27. Final Parameters M4/cm		CMBonn h: 110 10:13 Photo Roll #,
Time Temp C Conductivity	y pH NTUs WL Re	moved Flow Rate Observations _
10:12 20.08 0.451	<u> </u>	
28 Dhysical Appearance and Domarks	S IN THE WELL, DO NOT TAKE PH AND COND	
25. Thysical Appearance and Hernand	TUXBID Initially - alm	of clas a Souple.
29. Purgewater disposal method:	ON GROUND Su.	face
	Sampling / Development Parameter	
Time Temp C Conductivity		lume Dissolved Flow Rate Photo #, flons) Oxygen (gpm) Observ. (1)
10 - 01 - 11 - 11 -	· · · · · · · · · · · · · · · · · · ·	1101 5.87 1.0 Tream
10:03 20.79 0.494 8	28 TURBIO - 2	5 4.98 1.0 TOESI
10:06 20-29 0.46/ 8	.24 TULBID - 51	0 3.89 1,0 TURBE
10:09 20.12 0.452 8	1,24 TURBID - 7	5 3.36 1.0 TOKBIB
10:12 20.08 0.451 8	1.23 Melen 66.33' 10	1.0 3.61 1.0 clen.
(1) Note volume and physical character of sedim	nents removed.	
NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing	$\checkmark$	
Checked By	Med la all no	Date
	Montan Fo	04/08/09

Type Well  ☐ MW ☐ Production ☐ Other	Type of Data ☐ Development ☐ Sampling ☐ Pump Test ☐ Other		Well No. DBS-3 Sheet 1 of 1 Sheets			
1. Project DBS & A Salty Dob Brine Station	2. Project Location Salty Dof D	rine Poup Area	3. Date 04/08/09			
4. Technician Cm Barnh: 11, PG	Lea Co;					
7 Method Pumping Surging Air Lift Bailing Other	8.Manufacturer's Designation	-	9. Location of Well (Site, Description)  DBS-3			
<del></del>	Water	Levels				
Initial	Final		Final + 24 Hours			
Date: 08/09 Time: 0820	Date: Time	0948	Date: Time:			
10. Total Depth of Well (from TOC)  78. 72	15. Total Depth of Well (	(from TOC)	20. Total Depth of Well (from TOC)			
11. Water Level (from TOC)	16. Water Level (from TC		21 Water Level (from TOC)			
12. Water Column Height Nom Dia	x = gal/ft Sch 40 Sch 80	17.3 Well Volumes 8.46 Gallon	22. Size and Type of Pump of Bailer			
13. Well Diameter  2"ScH 40 PVC MW  4"	0.18 0.1534 0.65 0.5972 1.47 1.3540	18. 5 Well Volumes 14. 44 Ga//o				
14. Well Volume (gal) 2. 88 6a/. 8"	2.61 2.3720	19. Purge Volume	Setc T.O.			
<u> </u>	Final Fie	ld Analysis				
23. Total Amount of Water Removed Pumped Dr. Yes	Y2 Yes	If yes, w Sampling	the Groundwater Sampled (Less) No hat was the sample number & Date: Personnel? DBS -3, 04/04/04			
27. Final Parameters rime Temp C Conductivi	y pH NTL	Js WL Removed	Photo Roll #, Flow Rate Observations			
0843 19.53 0.53		can 61.44 10601	Ilms 1,06PA Clean			
28 Dhysical Appearance and Bomorks		TAKE PH AND CONDUCTIVITY  14 - Cleare				
29. Purgewater disposal method:		POUND SURFACE				
		opment Parameters				
Time Temp C Conductivity  0831 1806 0.735	PH NTUS TURBID	WL Volume (from TOC) (gallons)	Dissolved Flow Rate Photo #, Oxygen (gpm) Observ. (1)			
0421/ 1945 010	7.68 Turpio	- 2.5	4.56 1.0 Tunois			
0837 19.34 0.583	7.52 TURBID	- 5.0	2.66 1.0 TURNE			
0840 19.58 0.558	7.48 TURAJO	7.5	2.55 1.0 TURNIO			
0843 19.53 0.552	1.44 Cker	61.44 10.0	2,93 1.0 C/cm			
(1) Note volume and physical character of section NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing	ments removed.					
Checked By	Jon M bu	-96	Date 04/08/09			

Type Well	Type of Data	Well No. D85-4
	☐ Development	Sheet 1 of / Sheets
☐ Other	☐ Pump Test	/
	Other	
1	2. Project Location	3. Date
Salty Dob Brine Station	Solty Dot Bring Pond	tra 04/08/09
4. Technician CMBarnhill, Pf	Lea Co, NM	,
7. Method Pumping Surging Air Lift Bailing Other	B.Manufacturer's Designation of Rig	9. Location of Well (Site, Description)
Temping outging Air Eli Edining Circle	DSR-2001	DB5-4
	Water Levels	
Initial	Final	Final + 24 Hours/
Date:// Time: AQD	Date: / / Time: 042	Date: Time:
Date: 0905	04/08/09	
10. Total Depth of Well (from TOC)	15. Total Depth of Well (from TOC)	20. Total Depth of Well (from TOC)
80.151	- 80.10'	<del>                                     </del>
11. Water Level (from TOC)	16. Water Level (from TOC)	21. Water Level (from TOC)
		<del></del>
12. Water Column Height Nom	x = gal/ft 17. 3 Well Volumes Sch 40 Sch 80	22. Size and Type of Pump or Bailer
10.00		
13. Well Diameter  2"SUH 40 PVL MW  6"	0.1534 18.5 Well Volumes 0.65 0.5972	RediHo2, 1.8"
2"SCH 40 PVL MW 6"	1.17 1.0510 //.////	Mous Submersible
14. Well Volume (gal) 2.2264/	2.61 2.3720 19. Purge Volume	Your Sete T.D.
(5) W.E. HEIGHT	Final Field Analysis	
23. Total Amount of Water 24. Was Well	25. Was water added to well? 26.	Was the Groundwater Sampled Yes No
Removed Pumped Dry? Yes No	Yes If yes, source: Samp	s, what was the sample number & Date:
10 Gg/6045- Tes CNO	n yes, source.	Oling Personnel? DBS-4, 04/08/09
27. Final Parameters		MB2146:11e 0928  Photo Roll #,
Time Temp C Conductivity	pH NTUs WL Remov	ed Flow Rate Observations
1927 20.38 0.521	0 7.59 Chen 66.38' 106	allows 1.06PM Clear
07-7	IN THE WELL, DO NOT TAKE PH AND CONDUCT	
28. Physical Appearance and Remarks	- : - /	1 26
	TURBIO Intilly - C	ICHE C Sample.
29. Purgewater disposal method:	ON GROUND SUT	fore
	Sampling / Development Parameters	
	WL Volume	,
Time Temp C Conductivity	pH NTUs (from TOC) (gallons	
	57 TUKBIO 66.27 INITIA	
	.08 Tunio - 2.5	6.65 1,0 TURBIE
	.05 Turaio 5.0	5.42 110 Trais
0924 20.31 0.523 7	.96 CKM - 7.5	4.97 1.0 @/Eea
0927 20.38 0.520 7.	59 Clean 66.38 10.0	4.92 1.8 Clear
(5) Note relieve and described to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th		
(1) Note volume and physical character of sedime NTU = Nephelometric turbidity units	epts removed.	
WL = Water Level from Top of PVC Casing		
Checked By	While - DI	Date
	girt Pleso Vo	04/08/09

Type Well MW Production Other	Type of Data  Development Sampling Pump Test Other		Well No. DB5-5 of Sheets
1. Project DBSE A  Solty Por Brine Station  4. Technician	Selly Dob		3. Date 04/08/2009
7. Method Pumping Surging Air Lift Bailing Other	8.Manufacturer's Designation  DSA - 201/	on of Rig	9. Location of Well (Site, Description)
	Water	Levels	
Initial	Final		Final + 24 Hours
Date: 0730  10. Total Depth of Well (from TOC)	Date: Time: 15. Total Depth of Well (fr	0800	Date: Time: 20. Total Depth of Well (from TOC)
78-90	78.9		20. Total Debit of Well (noth TGC)
11. Water Level (from TOC)	16. Water Level (from TO		21. Water Level (from TOC)
12. Water Column Height Non Dia	x = gal/ft 8ch 40 Sch 80	17.3 Well Volumes 7.63 62/10	22. Size and Type of Pump of Bailer
13. Well Diameter  2" Sch 40 PVC MW  14. Well Volume (gal) (s) w.e. height)  2.54 60/-	0.1534 0.65 0.5972 1.47 1.3540 2.61 2.3720	18. 5 Well Volumes  12.72 63/1  19. Purge Volume 19. 64/645	ons: Submersible Seto T.D.
G C C C C C C C C C C C C C C C C C C C	Final Field		
23. Total Amount of Water Removed  24. Was W Pumped Dr Yes  27. Final Parameters Time Temp C  Conductivi	y? Yes If yes, source:	If yes, w Sampling	the Groundwater Sampled (ES) No hat was the sample number & Date: Personnel? DBS-5, 04/08/09 MBarnh://@0758 Photo Roll #,
0757 19.60 0.777	TIS IN THE WELL, DO NOT TO	WL Removed 15/ 63/56/10 60/6/ AKE pH AND CONDUCTIVIT	Flow Rate Observations  A mist clean  Y PARAMETERS
	TURBID IN	tion - Almes	t cleu e Sample
29. Purgewater disposal method:		UND Surface	
	Sampling / Develo		District Charles St. 1
	7.39 Tuesin	(from TOC) (gallons) .	Dissolved Flow Rate Photo #, Oxygen (gpm) Observ. (1)  5.1/ 1-0 Tuasis
0178 11.89 0.011 1	7.19 TURAID	5.0	4.18 1.0 Tunni
0754 19.57 0.778	7.16 TURBIO	7.5	4.57 1.0 Turnio
0757 19.60 0.777	7.15 Almost	63.55' 10.0	4.96 1.0 Minist
(1) Note volume and physical character of sedin	ments removed.		
WL = Water Level from Top of PVC Casing Checked By	Men-Po	۲ .	Date 04/08/09

Type Well	Type of Data	Well No. DB5-6
MW - Production	☐ Development  Sampling	Sheet 1 Control of Sheets
☐ Other	☐ Pump Test	, , , , ,
	C) Other	
1. Project DBS&A	2. Project Location	3. Date
Salty Dob Brine Station	Salta Dot Plana Lake	- 04/07/09
T = 1, 7, 1		
am Bamhill, Pt	Lea G, NIM.	
7. Methad	8.Manufacturer's Designation of Rig	9. Location of Well (Site, Description)
Pumping Surging Air Lift Bailing Other		DB5-6
	DSK-200/	023-6
	Water Levels	First OATT
Initial	Final	Final + 24 Hours
Date://1/09 Time: 18:15	Date: / Time: /8 3 4	Date: Time;
10. Total Depth of Well (from TOC)	Date: 7 Time: 8.36  15. Total Depth of Well (from TOC)	20. Total Depth of Well (from TOC)
78,70°		20. Total Deptinol Well (IIOIII 100)
	78, 40	21. Water Level (from TOC)
11. Water Level (from TOC)	16. Water Level (from TOC)	21. Water Lever (IIOIII 100)
<u> </u>		On Sing and Transit
12. Water Column Height No		22. Size and Type of Pump of Bailer
75.75		0,5
13. Well Diameter  2"SULLY 40 PVC MW 6"	0.1534 18. 5 Well Volumes 0.65 0.5972 12 7/65	Kedifle 2, 1.8"
2"Set 40 PVC MW 6.	1.47 1.3540	Submers: 4/2
14. Well Volume (gal) 2.556 /. 8" (s) w.e. height)	2.61 2.3720 19. Purge Volume	ons. CT.O.
(5) W.E. Height)	Final Field Analysis	
23. Total Amount of Water 24. Was V	Vell 25, Was water added to well? 26. W	as the Groundwater Sampled Mes No
Removed Pumped D		, what was the sample number & Date:
10 Gallons Yes	No If yes, source: Sampl	ling Personnel? DBS-6, 04/07/06
O7 Final Devembers		MBarnhille 1833 Photo Roll #
27. Final Parameters 75 Conductive Time Temp C Conductive	rity pH NTUs WL Remove	
18:32 20.12 1.56	ity pH NTUs WL Remove 63.70 166	allows 1.06 pm clear.
	IS IN THE WELL, DO NOT TAKE PH AND CONDUCTI	
28 Physical Appearance and Remarks		
	Turbio initially - 4/m	151 Cleare Sample
29. Purgewater disposal method:	ON GROUND SO	f
		77 1 02 2
10-5/cm	Sampling / Development Parameters WL Volume	Dissolved Flow Rate Photo #,
Time Temp C Conductivity	pH NTUs (from TOC) (gallons)	
18:20 21.49 1.262	7.96 TUKBIO 62,75' Initia	1 7.06 1.0 TOURD
18:13 21.06 1.308	7.37 TURBIO - 2.5	6.85 1.0 TURBIA
18:26 20.45 1.434	7.06 TURBID - 5.0	6.57 110 TURBIA
1829 20.16 1545	6.99 TURBLE - 7.5	6.42 1.0 Tuesio
18321 24 1 1.51.6	6.95 Almost 63.70 10.0	
1832 20,12 1,566	6.13 CIEUR (3.10 10.0	6.2 1.0 Clean
(1) Note volume and physical character of sec	liments removed.	
NTU = Nephelometric turbidity units	1	
WL = Water Level from Top of PVC Casing Checked By		Date
Cirected by	Juniha -Ph	Date 04/07/09
	Je Villand	

Type Well	Type of Data	Well No. DB5-7
Z-MW Fraduction	□ Development	5110011
☐ Production☐ Other		of /Sheets
Outer	Other	_
2000		<u> </u>
1. Project DB5 : A	2. Project Location	3. Date
Salty Dob Bring Station	Solty Dot Playa La.	Ke 04/07/09
4 Technician	shed's Bring hiell an	
Cm Bornhill, PG	Lea Co, N.M.	
7 Method Pumping Surging Air Lift Bailing Other	8.Manufacturer's Designation of Rig	9. Location of Well (Site, Description)
Pullphing Surging An Life Balling Outer	DSR-2019	DBS-7
	Water Levels	
Initial	Final	Final + 24 Hours
	<del> </del>	
Date: 04/07/09 Time: 16:45	Date: Time: 17'10  15. Total Depth of Well (from TOC)	Date: Time:
10. Total Depth of Well (from TOC)	15 Total Doods of Wall (from TOC)	20. Total Depth of Well (from TOC)
	15. Total Depth of Well (Iron 100)	20. Total Deptil of Well (IIOIII TOC)
77.10	16.70	
11. Water Level (from TOC)	16. Water Level (from TOC)	21. Water Level (from TOC)
61.74	01.87	
12. Water Column Height Nom	gal/ft 17.3 Well Volume:	
/5, 36 / Dia	Sch 40 Sch 80 7.376	Pump ar Bailer
·	0.1534 18.5 Well Volume	
	0.65 0.5972 12.28	Gallery Mediting, 10
2" SCH 40 PVL MW 6.	1.47 1.3540	306mers,616
14. Well Volume (gal) 1 UE 1 1 8"	2.61 2.3720 19. Purge Volume	Seta T.D.
(s) w.e. height) 2. 75 &/	Final Field Analysis	51,000
23. Total Amount of Water 24. Was We		26. Was the Groundwater Sampled (s) No
Removed Pumped Do	2 /No2 Yes	If yes, what was the sample number & Date:
10 Gallons. Yes G	Tyes, source:	Sampling Personnel? DBS-7, 04/07/0
10 03/1045		CmBornhille 1767
27. Final Parameters		Photo Roll #,
Time Temp C Conductivity	y pH NTUs WL Re	
1706 20,5/ 1,99	9 7,03 Chear 61.89 /	Valler 1.06pm Almost
	S IN THE WELL, DO NOT TAKE PH AND COND	
28 Physical Annearance and Remarks		
	TURBID Initially -	Almost cleare Sample.
	1 . 1 4	
29. Purgewater disposal method:	ON GROUPD SUITE	e.
	Sampling / Development Paramet	ers
ms/cm	WL Vo	olume Dissolved Flow Rate Photo #,
Time Temp C Conductivity		allons), Oxygen (gpm) Observ. (1)
16:54. 21:79 3.05/	7.37 TURBID 61.74 19.	111/ 4.71 "25 TURBE
16.57 21.16 1.776	7.36 TURBID - 2	1.5 4.35 1.225 Turnio
1700 20.83 1.869		5.0 5.23 1.025 TURNE
10 0 0 10 1000		1/1/6
1703 2069 1.959 7		7.5 4.65 1.025 TURBIN
1706 20.51 1.999	7,03 Almost 6/89 1	10.0 4.30 10 2.3 Bleen.
(1) Note volume and physical character of sedin	Pents removed.	
NTU = Nephelometric turbidity units	7	,
WL = Water Level from Top of PVE Casing		
Checked By	and -01	Date
1 / 4 (41)	WIN PO	04/07/09

Type Well  SKMW ☐ Production ☐ Other	Type of Data  Development  Sampling Pump Test Other		Well No. DB5-B Sheet 1 of Sheets			
1. Project DBS & A  Salty Dot Brine State  4. Technician	2. Project Location Salty Dob Shell & Brin	Playa Lake e Well Area	3. Date 04/07/09			
CM Barnhill, PG	Lea ligh	M				
7. Method Pumping Surging Air Lift Bailing Other	8.Manufacturer's Designation	•	9. Location of Welf (Site, Description)  285-8			
	DSR-20		DB3 8			
Initial	Final	Levels	Final + 24 Hours			
Date: 04/01/09 Time: 17:30	Date: / / / / / / Time:	17:56	Date: Time:			
10. Total Depth of Well (from TOC)	15. Total Depth of Well (fi		20. Total Depth of Well (from TOC)			
11. Water Level (from TOC)	16. Water Level (from TO		21. Water Level (from TOC)			
12. Water Column Height Non Dia	<u> </u>	17.3 Well Volumes 7.68 & 1/00	22. Size and Type of Jump or Bailer			
13. Well Diameter  2'' SCH 40 PVC MW  6"	0.16 0.85 0.5972 1.47 1.3540	18.5 Well Volumes	3V=m=15, P1 0			
14. Well Volume (gal) 2. 56 6/los 8"	2.61 2.3720	19. Purge Volume	Set e T.O.			
23. Total Amount of Water 24. Was W		d Analysis				
23. Total Amount of Water Removed 24. Was W Pumped Dr. Yes	y? Yes	If yes, w Sampling	the Groundwater Sampled Ves No hat was the sample number & Date:  Personnel? DBS-8 04/07/09  Barnh:// C- 17:52			
27. Final Parameters Time Temp C Conductivi  17:5/ 20.52 0.88	y ph NTU: 4 7.52 TVL	s WL Removed	Photo Roll #, Flow Rate Observations			
IF PETROLEUM 28. Physical Appearance and Remarks	IS IN THE WELL, DO NOT T	1/	TY PARAMETERS			
29. Purgewater disposal method:	ON GR	cours Suiface				
		pment Parameters	-			
	pH NTUS 8.62 TURBIO	WL Volume (from TOC) (gallons), (6/. 20' 14,12'	Dissolved Flow Rate Photo #, Oxygen (gpm) Observ. (1) 3.91 1.0 Tursio			
	8,77 TURAIS	- 2.5	4.65 110 TURDO			
10. 111 . 111 . 1011	8.70 TULIDIO		4.34 1.0 TURAS			
	7.94 TURBIO 7.52 TURBIO	61.57' 10.0	4.37 1.0 TURBIO TURBIO			
		·				
(1) Note volume and physical character of sedintru = Nephelometric turbidity units WL = Water Level from Top of PVC Casing Checked By	ments removed.		Date			
(9/1	Jmm/bu	H.	04/07/09			

Type Well  DMW  Production  Other	Type of Data ☐ Development ➢ Sampling ☐ Pump Test ☐ Other		Well No. DB5-9 Sheet 1 of Sheets
1. Project DBS & H Salty DOG Brine Station	Salty Dob to Shed & Brine	Playa Lake	3. Date 04/08/09
4. Technician Barnhill, Pb	Shed & BIMO		
7. Method Pumping Surging Air Lift Bailing Other	8.Manufacturer's Designation  DER-2001	of Rig	9. Location of Well (Site, Description)  \$\int BS - 9\$
	Water L	evels	
Initial	Final		Final + 24 Hours
Date: 4/v8/04 Time: 17:35	07/08/07	18:01	Date: Time:
10. Total Depth of Well (from TOC)	15. Total Depth of Well (from		20. Total Depth of Well (from TOC)
11. Water Level (from TOC) 53.93	16. Water Level (from TOC)	2'	21. Water Level (from TOC)
12. Water Column Height Non Dia		7.3 Well Volumes 8,07 62//11	22. Size and Type of Furnier or Bailer
13. Well Diameter  2 // SCH 40 PUC MW  6*  14. Well Volume (gal) 0 4 8*	0.65 0.5972	8.5 Well Volumes 13.45 6/1	ons Submersible
14. Well Volume (gal) 2.696al · 8"	Final Field	9. Purge Volume 60/104	15   327
23. Total Amount of Water Removed    D Ga   I on S     24. Was W Pumped Dr Yes   S     27. Final Parameters   S   60	ell 25. Was water added to y? Yes If yes, source:	to well? 26. Was If yes, w Sampling	the Groundwater Sampled Web No hat was the sample number & Date: Personnel?  Barnh, Me 18', 0/ Photo Roll #,
Time Temp C Conductivi  18'.00 18'.48 1.17	ty ph NTUS 7.12 TUAS 1. IS IN THE WELL, DO NOT TAK	5 54.12/0G	Flow Rate Observations  (1045 1-0 GPM TINB 12)  VPARAMETERS
28. Physical Appearance and Remarks		io tro	TYMENTER
29. Purgewater disposal method:	<del></del>	no Surface.	
		WL Volume (gallons) 3.93' /m/fn/ - 2.5 - 5.0 - 7.5'	Dissolved Oxygen (gpm) Observ. (1) 7.05 1.0 TURBIO 4.86 1.0 TURBIO 5.05 1.0 TURBIO 5.05 1.0 TURBIO 5.59 1.0 TURBIO
(1) Note volume and physical character of sedi NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing Checked By	ments removed.	PF	Date 04/08/09

# CMB ENVIRONMENTAL & GEOLOGICAL SERVICES, INC.

### WELL DATA FORM

Type Well	Type of Data  ☐ Development	Sheet 1 NW-/ Shallow
☐ Production ☐ Other	☐ Pump Test	of / Sheets
	☐ Other	
1. Project DBS & A	2. Project Location	3. Date / /
Salty Dob Brine Station	SAITU DOS Brine POND	Area 04/08/09
4. Technician Cm Bamhill, P6	Len Co, NM	
7. Method 8	Manufacturer's Designation of Rig	9. Location of Well (Site, Description)
Pumping Surging Air Lift Bailing Other	DSR-2011	NN-1 Shallow
	Water Levels	
Initial	Final	Final + 24 Hours
Date: Time: 12',410 10. Total Depth of Well (from TOC)	Date: 1300	Date: Time:
10. Total Depth of Well (from TOC)	15. Total Depth of Well (from JOC)	20. Total Depth of Well (from TOC)
11. Water Level (from TOC) 62.35	16. Water Level (from TOC) (2, 35	21. Water Level (from TOC)
12. Water Column Height / Nom Dia	x = gal/ft 17.3 Well Volum Sch 40 Sch 90	
13. Well Diameter 22	6.0	18 Gallans Pum or Bailer
	0.65 0.5972 10.4	2/11 Predit/22, 1.8
2/1 XXX 40 PYL MW 6"	1.47 1.3540 19. Purge Volun	18 Gallous Submersible
14. Well Volume (gal) 2.0/63/. (s) w.e. height) 8"	//	Gallous Sete T.D.
23. Total Amount of Water 24. Was Well	Final Field Analysis  25. Was water added to well?	26. Was the Groundwater Sampled Yes No
Removed Pumped Dry?	No Yes	If yes, what was the sample number & Date:
10 Gallons Yes (No)	If yes, source:	Sampling Personnel? NIW-1 Shallow, 04/04
27. Final Parameters	N. N. T. L. M.	Photo Roll #,
Time Temp C Conductivity 12:55 20:36 1.404		Removed Flow Rate Observations
	IN THE WELL, DO NOT TAKE PH AND CO	
		11 NOT Well Developed
	VKB10120 - WE	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
29. Purgewater disposal method:	ON GROUND.	Sur face
	Sampling / Development Param	neters
Time Temp C Conductivity	WL pH NTUs (from TOC)	Volume Dissolved Flow Rate Photo #, (gallons), Oxygen (gpm) Observ. (1)
		pitial 3.69 1.0 Tuzar
12:45 20.92 1.444 7	47 Trans	2.5 2.08 2.0 TURBE
12:49 20.20 1.393 7	46 TURB	5.0 2.11 1.0 Tores
12:52 21.0 1.442 7	40 Turso	7.5 2.09 1.0 TURB
12:55 20.36 1404 7	39 TUNBA 62.35	10.0 2.08 1.0 TURES
	<del></del>	
	· ·	
(1) Note volume and physical character of serime	nts removed.	
NTU = Nephelometric turbidity units		
WL = Water Level from Top of PVC/Casing/ Checked By	Track	Date 04/08/09

Type Well  MW □ Production □ Other	Type of Data  Development  Sampling  Pump Test  Other		Well No. / W - / Sheet 1 of / Sheets	middle
1. Project DBS& A Solty Dob Brine Station	2. Project Location Satty Dob	Brine Pour Are	3. Date 04/08/0	9
4. Technician Barnhill, Pb		Co., N.M.		
7 Method Pumping Surging Air Lift Bailing Other	8.Manufacturer's Designation  DSR - 276	_	9. Location of Well (Site, I) NW-/ M;	
	Water	Levels		
Initial	Final		Final + 24 Ho	y's
Date: 109/09 Time: 12', 10	Date: O4/04/09 Time	12:35	Date:	Time:
10. Total Depth of Well (from TOC)	15. Total Depth of Well (	from TOC)	20. Total Depth of Well (	from TOC)
11. Water Level (from TOC)	16. Water Level (from TO		21. Water Level (from To	OC)
12. Water Column Height Nom Dia	x = gal/ft Sch 40 Sch 80	17.3 Well Volumes 28,34 60/	22. Size and Tump of	
13. Well Diameter 2" SCH 40 PVC MW 6.  14. Well Volume (gal) 9 44/6 / 8"	0.1534 0.65 0.5972 1.47 1.3540 2.61 2.3720	18.5 Well Volumes 47.24 61 19. Purge Volume 30 62 //on 3		116, ble
(s) w.e. height) 7.77 62/1	Final Fia	d Analysis		
23. Total Amount of Water Removed 30 Gallon S-  27. Final Parameters  24. Was W. Pumped Dr. Yes  27. Final Parameters	ell 25. Was water add y? Yes Yes If yes, source:	ed to well? 26. Wa If yes, Samplin	as the Groundwater Sampled what was the sample number ng Personnel? NW-1,	middle oglo
Time Temp C Conductivi	ty pH NTUs WL Removed			servations
12:30 20.00 0.632	7.47 TUR	BU 62.51 30 6	1. 2.56PM	TURBIS
IF PETROLEUM 28. Physical Appearance and Remarks	IS IN THE WELL, DO NOT	TAKE PH AND CONDUCTIVE	TTY PARAMETERS	
29. Purgewater disposal method:	ON	GROUND Surt	éce.	
	Sampling / Devel	opment Parameters		
Time Temp C Conductivity  12:18 20:07 0.755  12:22 19:90 0.735  12:26 20:02 0.665  12:30 20:00 0.638	ph NTUS 7.61 TURBID 7.54 TURBID 7.48 TURBID 7.47 TURBID	WL (from TOC) (gallons) (2.25' 10.1701)	Dissolved (gpm)  6,17 3.0 2.81 2.86 2.55 3,37 2.5	Photo #, Observ. (1)  TUKBO  TUKBO  TUKBO  TUKBO
(1) Note volume and physical character of sedi NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing	ments removed.			
Checked By	In Mary	-P6-	Date 04/0	8/09

Type Well  ☐ MW ☐ Production ☐ Other	Type of Data  ☐ Development  Sampling ☐ Pump Test ☐ Other	Well No. NW-/ Deep Sheet 1 of / Sheets
Soity Dot Brine Station	2. Project Location Solty Dob Brine Powo Are	3. Date 04/08/09
4. Technician Barnhill, P6	Lea Go, N.M.	
	3.Manufacturer's Designation of Rig	9. Location of Well (Site, Description)
Pumping Buiging All Line balling Cuter	DSR-2001	NW-1 Deep
Initial	Water Levels Final	Final + 24 Hours
Date: 1/08/09 Time: 1/:36	Date: 04/08/09 Time: 12:02	Date: Time:
10. Total Depth of Well (from TOC)	15. Total Depth of Well (from TOC)	20. Total Depth of Well (from TOC)
11. Water Level (from TOC) 62.04	16. Water Level (from TOC)	21. Water Level (from TOC)
12. Water Column Height Nom Dia	x = gal/ft 17.3 Well Volumes 49.66 6	22. Size and Type of Fump or Bailer
13. Well Diameter  2 // 5CH 40 PVL MW 6- 14. Well Volume (gal) 16, 55q.4	0.16 0.1534 18.5 Well Volumes 0.65 0.5972 1.47 1.3540 2.61 2.3720 19. Purge Volume 50 63//or	sal- Submersible  Sete T.O.
	Final Field Analysis	
23. Total Amount of Water Removed  50 6 //675  24. Was Well Pumped Dry Yes  10  27. Final Parameters Time Temp C  Conductivity	Yes If yes, source: If yes	was the Groundwater Sampled See No what was the sample number & Date: ling Personnel? NW-/ Day 24/28/2000 Photo Roll #, ed Flow Rate Observations
11:55 19.85 0.497	7 7.44 Clear 62.60 506	allon 3.560m clear
28. Physical Appearance and Remarks	Initially Turbib- clear	
29. Purgewater disposal method:	ON GROUND Surfece	e ·
	Sampling / Development Parameters WL Volume	Dissolved Flow Rate Photo #.
Time Temp C Conductivity 11:40 20.27 0.603 7.	pH NTUs (from TOC) (gallons 55 TVLAID 62.04 11.712	). Oxygen (gpm) Observ. (1)
11:43 20.01 0.532 7	.50 Trapp 10	3.69 3.5 TORALS
11:46 20.04 0,510 7	1.48 TUKON - 20	3.53 3.5 Turai
11:49 19.80 0.505 7 11:52 19.94 0.497 7	1.47 Clen — 30 1.46 Clen — 40	3.62 3.5 alean
11:55 19.85 0.497 7	1.44 Clar 62.60 50	3.49 3.5 Clear
(1) Note volume and physical character of sedimeNTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing Checked By	ent removed.	Date 04/08/09

Type Well  MW  Production  Other	Type of Data  Development  Sampling Pump Test Other	Well No. Sheet 1 NW - 2 She // N of / Sheets
1. Project DBS ! A Salty Dob Brine Station	Salty Dot Play & Lake Shed & Brine Well Area	3. Date 04/08/09
4. Technician Barnhill, Pf	Lea G, NM	
7. Method Pumping Surging Air Lift Bailing Other	8 Manufacturer's Designation of Rig  DSR - 200/	9. Location of Well (Site, Description)  NW-2 - She//ow
	Water Levels	
Initial	Final	Final + 24 Hours
Date: 4/04/04 Time: 16:45	Date: Time: 17', 5  15. Total Depth of Well (from TOC)	Date: Time:  20. Total Depthyof Well (from TOC)
10. Total Depth of Well (from TOC)	75,35	20. Total Depty of West (IIOII 100)
11. Water Level (from TOC)	16. Water Level (from TOC) (3, 68	21. Water Level (from TOC)
12. Water Column Height Nom	Sch 40 Sch 80 5. 3/60//w	22. Size and Type of
13. Well Diameter  2 // 5 // 40 PVCMM  14. Well Volume (gal) 1.77  8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	0.1534 0.65 0.5972 1.47 1.3540 2.61 2.3720 19. Purge Volume	Site To
(S) W.C. Heights	Final Field Analysis	
23. Total Amount of Water Removed  24. Was We Pumped Dry Yes	Y? Yes If yes Samp	Was the Groundwater Sampled See No s, what was the sample number & Date: pling Personnel? NW-2 5hallow 05/05 CMBarnh; //e 17:07
27. Final Parameters       Ms/cq         Time       Temp C       Conductivit         17. 06       19.32       1-88		
15 51	TURBIO - Poorly Develo	
29. Purgewater disposal method:	ON GROUND Surtace	
	Sampling / Development Parameters	
Time Temp C Conductivity  16:35	PH NTUS (from TOC) (gallogs 7.37 TURBID — 2.5 7.40 TURBID — 5.0 7.35 TURBID — 7.5 7.33 TURBID — 7.5 7.33 TURBID — 7.5	S) Oxygen (gpm) Observ. (1) 3/ 5.46 1.0 Turnin 4.22 1.0 Turnin 4.03 1.0 Turnin 4.37 1.0 Turnin
(1) Note volume and physical character of sedin NTU = Nephelometric turbidity units WL = Water Level from Top of PVC Casing Checked By		Date 64/04/0-9

Type Well	Type of Data  ☐ Development	Well I Shee	
☐ Production ☐ Other	Sampling  Pump Test	of	Sheets
- Other	Other		
1. Project DBS & A	2. Project Location	3. Da	te 4/08/05
Solty Dob Brine Station	Solty Dot Pl Shile Brine	and Loke	07/08/07
4. Technician CMBarnh:11, P6	Shirt & Brine I		
7. Method Pumping Surging Air Lift Bailing Other	8 Manufacturer's Designation of Rig		ation of Well (Site, Description)  WW-2 - m, dd/e
	Water Level	s	
Initial	Final		Final + 24 Hours
Date: 16:25	Date: 16		
10. Total Depth of Well (from TOC)	15. Total Depth of Well (from TOO)	20. T	otal Depth of Well (from TOC)
11. Water Level (from TOC)	16. Water Level (from TOC) 64,4/	21. V	Vater Level (from TOC)
12. Water Column Height Nor	n x≥gal/ft 17.3 \	Vell Volumes 19.78 62/1062	22. Size and Type of Pump or Bailer
13. Well Diameter	0.65 0.5972	Well Volumes	55 120' 1.8" Submersible
14. Well Volume (gal) 6.5963/.		ge Volume 20 Gallons	Set c T.P.
	Final Field Anal	ysis	
23. Total Amount of Water Removed  2062 Kors-	y? (No Yes	If yes, what was Sampling Person	oundwater Sampled Yea No the sample number & Date: hnel? NW 2, M, 4
		04/08/09	CMBarohiKe-165
27. Final Parameters		VL Removed	Photo Roll #, Flow Rate Observations
16:50 19:04 2:172	2 7.17 TURBID	64.41 20611ons	1.06 pm TONE
IF PETROLEUM 28. Physical Appearance and Remarks	IS IN THE WELL, DO NOT TAKE PH	AND CONDUCTIVITY PAR	AMETERS
20. Physical Appearance and Hemarks	TURBIDI	420	
29. Purgewater disposal method:	ON GA	NUO SUI FACE	
	Sampling / Development		
Time Temp C Conductivity	pH NTUs (from TO		solved Flow Rate Photo #, ygen (gpm) Observ. (1)
	7.37 TUBE 63.0		38 1.0 TURBID
16:40 18.91 2.155	7.36 TUKNIO -	10 5.	52 1.0 TORBE
16:45 18.76 2.153	7.25 TURBIO -	15 6	52 1.0 TURBE
16:50 19.04 2.172	7.17 TVABIO 64.	41 20 6	63 1.0 TURAL
(1) Note volume and physical character of sed NTU = Nephelometric turbidity units	ments removed.		
WL = Water Level from Top of PVC Casing Checked By	10/10	2/	Date
//	Mittelle - 1	V-	0 4/18/09

Type Well The Market State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State Sta	Type of Data  ☐ Development  ☐ Seampling ☐ Pump Test	Well No. NW-2 Deep of Sheets
☐ Other	□ Other	
Project DBS & A	2. Project Location	3. Date
Solty Dob Brine Station	Setty Dot Play : Shed & Brine Well	Lake 04/08/09
Cm Barnhill, Pt	Shed & Brine Well	
Method Surging Air Lift Bailing Other	8.Manufacturer's Designation of Rig  DSR - 201	9. Location of Well (Site, Description)  NW-2 - Deep
	Water Levels	
Initial	Final	Final + 24 Hours
Date: 15:30	Date: 16:	
0. Total Depth of Well (from TOC)  /32. 20	15. Total Depth of Well (from TOC) 48,87	20. Total Depth of Well (from TOC)
1. Water Level (from TOC) (6.4/	16. Water Level (from TOC)	21. Water Level (from TOC)
12. Water Column Height Nom Dia	3	V. 57 Ga/lows- 22. Size and Type of Pump or Bailer
3. Well Diameter		Il Volumes FS 120 Set 1
3. Well Diameter  2"SCH Yo PVC MW  6"		2.63 Gollors ES 120 Set 1
4. Well Volume (gal) 10-52 Gal 8"		70 60/1045 TOC.
23. Total Amount of Water 24. Was We	Final Field Analys  25_Was water added to well?	26. Was the Groundwater Sampled (4es) No
23. Total Amount of Water Removed Pumped Dry Yes		If yes, what was the sample number & Date: Sampling Personnel? NW-2 Deep
27. Final Parameters	<u> </u>	04/08/09 CM Barnh: 1/e 16. Photo Roll #.
_		Removed Flow Rate Observations 410 30 64/645 1,06 pm Turns 15
	S IN THE WELL, DO NOT TAKE PH A	
28. Physical Appearance and Remarks	TUKBIN A	
29. Purgewater disposal method:	ON GROVNO.	
	Sampling / Development F	
Time Temp C Conductivity	pH NTUs (from TOC	Volume Dissolved Flow Rate Photo # (gallons) _ Oxygen (gpm) Observ. (
15:38 19.15 1.548	7.69 TURAD 66.4	1 Initial 1.21 1.0 Turn
	7.53 TVABID -	10 6.55 1.0 TURB.
70,720	7.01 TURBIO -	20 6.99 1.0 TURN
	6.88 TURBIN -	30 7.39 1.0 TURA
16:18 18:82 10.72 1	5.81 TURBE GO	10 40 6.35 1.0 TURN
	noote removed	
<ol> <li>Note volume and physical character of sedin</li> <li>NTU = Nephelometric turbidity units</li> </ol>	nents removed.	

Type Well MW Production Other	Type of Data  ☐ Development Sampling ☐ Pump Test ☐ Other		Well No. Sheet 1 of / Sheets	
1. Project DB S? A Salty DOL Brine State	2. Project Location Salty Du	of Playo Lake	3. Date 04/07/69	
4. Technician Barnh: 11, PG	Lea Car	4 / 1 <i>2 //</i>	,	
7. Method	8.Manufacturer's Designati		9. Location of Well (Site, Description)	
Pumping Surging Air Lift Bailing Other	DSR-6	200/	MW-2	
		Levels		
Initial	Final		Final + 24 Hours	
Date: 12:00	Date: 04/67/09 Time	13:22	Date: Time:	
10. Total Depth of Well (from TOC)	15. Total Depth of Well (	from TOC)	20. Total Depth of Well (from TOC)	
11. Water Level (from TOC) 61-65	16. Water Level (from TO		21. Water Level (from TOC)	
12. Water Column Height Nor Dia		17.3 Fell Volumes 36 6a//ons	22. Size and Type of Pump or Bailer	
13. Well Diameter	0.16 0.65 0.5972	18. 5 Well Volumes	Rodit/02,1.8"	
12" SCH YOPVCPIW 1 6"	1.47 1.3540 2.61 2.3720	60.56 Go/	lons Submersible  Seta T.O-	
14. Well Volume (gall) / 2 · // 62/' 8"		19. Purge Volume	Hoas Sete 1.2-	
23. Total Amount of Water 24. Was W		Id Analysis ed to well?	the Groundwater Sampled ( No	
Removed Pumped Di		lifves w	that was the sample number & Date: personnel? MW-2,04/07/09	
		Cm	Bannh: 11 @ 13:18 Photo Roll #,	
27. Final Parameters	ity pH NTL 12 8,69 CK	Is WL Removed IN 61.61 4061	Flow Rate Observations	
28 Physical Appearance and Remarks		TAKE PH AND CONDUCTIVE		
29. Purgewater disposal method:		ROUND Surta		
	<u></u>	opment Parameters	<u> </u>	
Time Temp C Conductivity  13:02 18:83 2.72	pH NTUS 8-19 TURBID	WL Volume (from TOC) (gallons)	Dissolved Flow Rate Photo #, Oxygen (gpm) Observ. (1) 4.74 3.33 Turner	
13:05 19.32 4.204	8.47 Clear	- 10	4.16 3.33 Clear	
13:09 19.76 4.472	8.66 Clear	_ 20	4.04 2.5 Clem	
13:13 19.80 4.443	8.68 CKIN.	- 30	3.80 2.5 Clase	
13:17 19.73 4.492	8.68 cless	61.61' 40	3.73 2.5 Clar	
		·		
(1) Note volume and physical character of sedi NTU = Nephelometric turbidity units	ments removed.			
WL = Water Level from Top of PVC Casing Checked By	Ten 1 Paris	01	Date Out / a	
( Suyon?	MEANUL, O	76	04/07/09	

Type Well     MW  □ Production  □ Other	Type of Data  ☐ Development  ☐ Sampling ☐ Pump Test ☐ Other		Well No. MW-3 Sheet 1 Sheets
1. Project DBS! A Solty Dot Brine Station 4. Technician CM Barnhill Pt	2. Project Location  Salty Dor  Shell & Brin  Lea G.	, Playa Lake ic well Area Nm	3. Date 04/27/09
7. Method Pumping Surging Air Lift Bailing Other	8.Manufacturer's Designation DSR - 2	ion of Rig	9. Location of Well (Site, Description)  MONITOL Well 3
	Water	Levels	
Initial	Final	1	Final + 24 Hoursy
Date: 13:46	Date: /07/04 Time	14:17	Date: Time:
10. Total Depth of Well (from TOC)	15. Total Depth of Well (	5	20. Total Depth of Well (from TOC)
11. Water Level (from TOC)	16. Water Level (from TO	68	21. Water Level (from TOC)
12. Water Column Height Non Dia	x = gal/ft Sch 40 Sch 80	17.3 Well Volumes 40.80 62//	22. Size and Type of Pump or Bailer
13. Well Diameter  2" SCH 40 PVC 6"  14. Well Volume (gal) 13.6 Gal/o+3  8"	0.1534 0.65 0.5972 1.47 1.3540 2.61 2.3720	18.5 Well Volumes 68 Gallon 19. Purge Volume	Submersible  Sete T.D.
(s) w.e. height) 13.6 69//043	Final Fiel	Id Analysis	5.
23. Total Amount of Water Removed  H/ 62//on 5  27. Final Parameters Time Temp C Conductivi  14/12 19.90  SEPETROLEUM	No Yes If yes, source:  by pH NTL  6.39 Clean	If yes, we Sampling	the Groundwater Sampled Yes No that was the sample number & Date: g Personnel? nw-3, 04/67/25 Barn 6:// C- /4;/3 Photo Roll #, Flow Rate Observations TY PARAMETERS
28. Physical Appearance and Remarks	Cler	./	
29. Purgewater disposal method:		ound Surface	<u>.</u>
Time Temp C Conductivity    3:55	ph NTUS 6:67 Clear 6:37 Clear 6:37 Clear 6:39 Clear	opment Parameters  WL Volume (gallons) 62.02 /n/1/*/ - /0 - 20 - 30 62.68 4//	Dissolved Oxygen (gpm) Observ. (1) 4.87 2.5 Clear 4.35 2.5 Clear 3.93 2.5 Clear 3.18 2.5 Clear
Checked By	ment that	PF	Date 04/07/09

Type Well	Type of Data	Well No. MW-4
MW.	□ Development	Sheet 1 /
☐ Production	Sampling	of Sheets
Other	☐ Pump Test ☐ Other	]
000'4		
1. Project DBS & A	2. Project Location	3. Date
Salty Dof Brine Station :	Salty Dof Playa Lake	- 04/07/2009
4. Technician	Salty Dof Playa Lake shed & Brine Well Area	.
CMBarnhill, PG	Lea Co. NM	
7. Method 8	Manufacturer's Designation of Rig	9. Location of Well (Site, Description)
Pumping Surging Air Lift Bailing Other		MONITON WELLAY
	DSR-2001	Miles in the rection of
	Water Levels	
Initial	Final ·	Final + 24 Hours
Date: / / Time: /4/32	Date: /5'05	Date: Time:
Date: /4/35	07/0//37	
10. Total Depth of Well (from TOC)	15. Total Depth of Well (from TOC)	20. Total Depth of Well (from TOC)
62,5+ 147.3	147.31	
11. Water Level (from TOC)	16. Water Level (from TOC)	21. Water Level (from TOC)
62.51	62.50	
12. Water Column Height Nom	x=gal/ft 17.3 Well Volumes	22. Size and Type of
84.79 Dia	Sch 40 Sch 80 4069	Gallens Pumpor Bailer
	0.1534 18.5 Well Volumes 0.65 0.5972 1.47 1.3540 67.83	(alland Rol, floz 2, 1.8"
2" SCH 40 PVC MW 6.	1.47 1.3540	
14. Well Volume (gal) /3.56 66/ 8"	2.61 2.3720 19. Purge Volume	shall sot et.D.
(s) w.e. neight)	Final Field Analysis	77073
23. Total Amount of Water 24. Was Well		6. Was the Groundwater Sampled Yes No
Removed Pumped Dry?	No Yes If	yes, what was the sample number & Date;
41601/ons Yes (Ng	Tryes, source: Sa	impling Personnel? MW - 4,04/87/09
1 601/043		C'm Barnhille 15:00
27. Final Parameters Time Temp C Conductivity		Photo Roll #,
Time Temp C Conductivity	pH NTUs WL Ren	noved Flow Rate Observations
14:59 19.67 15.58	3 6.65 Clear 62.50 4	1611000 2.56Pm C/102.
IF PETROLEUM IS	IN THE WELL, DO NOT TAKE PH AND CONDU	
28. Physical Appearance and Remarks	Clear Hro	
	(1202 1130	
29. Purgewater disposal method:	ON GROUND Surfo	<i>(</i> <
	Sampling / Development Paramete	rs
15/ca	WL , Volu	
1		ons) Oxygen (gpm) Observ. (1)
14.42 19.64 12.68 6	.80 alean millet init	12/ 2.42 2.56pm Clear
14:46 19.76 15.52 6	.72 Clerk - 10	3.45 2.5 Clear
14:50 19,91 15.80 L	74 Clen - 21	3.67 2.5 plan
14:54 19.83 15 72 1	14 cleur - 2	209 05 01
1111 1110 13116	<u> </u>	3.89 2.5 c/cm
17.07 17.67 15.38 6	.65 class 62.50 41	3,93 2.5 C/100
(1) Note volume and physical character of sedime	ents removed.	
NTU = Nephelometric turbidity units		
WL = Water Level from Top of PVC Casing Checked By	1-1	Date
( VIII)	ry Mkny _Pla.	04/07/2009

Type Well	Type of Data  Development		Well N Sheet	10. MW-5	
☐ Production ☐ Other	✓ Sampling  ☐ Pump Test		of	Sheets	
- Other	□ Other		-	•	
1. Project DBS A	2. Project Location		3. Dat	. , ,	
	Salty Dob .	Playa Lak	(e)	04/07/09	
4 Technician —	Salty Dob , shed & Bring	e well Are	4	7, ,,	
CMBarnhill, PG	Lea Co.	NM		<u></u>	
7. Method Pumping Surging Air Lift Bailing Other	.Manufacturer's Designation		I .	ation of Well (Site, De:	
Tompag outging 7th Life Banning outgi	DSR-	200/	m	INITOR Well	775
		Levels			
Initial	Final		<del>-  </del> -	Final + 24 Hours	<b>,</b>
Date: 15:23	Date: 04/01/09 Time:	15:48	Date:		ime:
10. Total Depth of Well (from TOC) 129.78	15. Total Depth of Well (fi		20. To	otal Depth of Well (from	n TOC)
11. Water Level (from TOC)	16. Water Level (from TO	c)	21. W	later Level (from TOC)	)
12. Water Column Height Nom	x = gal/ft	17. 3 Well Volume	_	22. Size and Type	
68.99' Dia		33 62			
13. Well Diameter	0.16 0.1534 0.65 0.5972	18. 5 Well Volume	-	Rodofloz,	1.8"
d" SCH TI PIUM 6"	1.47 1.3540 2.61 2.3720	19. Purgo Volumo	52//01/5.	Sybmers;	
14. Well Volume (gal) // 6/1/45 8" (s) w.e. height)		19. Purge Volume	ellow	36/6/10	
23. Total Amount of Water 24. Was Well	Final Field 25. Was water adde	d Analysis	26 Mac the Gre	undwater Sampled	es No
Removed Pumped Dry?	No 2 Yes		If ves. what was	the sample number &	Date:
35 6 11045. Yes 10	Tryes, source:	'		nel? MW-5,	' '
27. Final Parameters ms/Cm			CHIDA		5:45 oto Roll #.
I Time Temp C Conductivity	pH <b>N</b> TU:			low Rate Obser	vations
15:43 20.07 3.679	6.97 Clean	a 60.85 3	35 67/1001	2.56pm Cle	12
IF PETROLEUM IS IN THE WELL, DO NOT TAKE pH AND CONDUCTIVITY PARAMETERS  28. Physical Appearance and Remarks					
	TURBIO INI	tally-cla	ENK C.	Sumple.	
29. Purgewater disposal method:	ON GROUN	o Suntoc	e		
	Sampling / Develo	<del></del>		The Day	Dh #
Time Temp C Conductivity	pH NTUs			olved Flow Rate gen (gpm)	Photo #, Observ. (1)
15:30 20.27 5.210 7	16 TURBIA	60:79 In	tio/ 34	2.5	TURBIO
15:34 20.42 4.117 7	10 TURBIO		10 3.	27 2.5	TURBI
15:38 20.19 3.79/ 7	03 THERE		20 3.	83 <u>2.5</u>	TURNE
15:43 20.07 3.679 6	.97 Clear	60.85	5 3.9	3.5	Cler
(1) Neto volume and abovious above for all the	anto roma and				
(1) Note volume and physical character of sedime NTU = Nephelometric turbidity and WL = Water Level from Top of PV/C Casing	ль тетоуеа.	:			
Checked By	by Pl	<del>, .</del>	Ī	Date 04/An	100

### CMB ENVIRONMENTAL & GEOLOGICAL SERVICES, INC.

### WELL DATA FORM

	ズSampling ☐ Pump Test ☐ Other	of / Sheets
1. Project DBS&A	1	·
		<del></del>
Salt Day Beine Station	2. Project Location	3. Date
20119 200 2000 2000	Salty Dot Plana L	oke 04/07/09
4. Technician	Solty Dot Plana L. Shed & Brine Well	Arca
CMBarnhill, Pf	Lea Go, NM	
7. Method 8.	.Manufacturer's Designation of Rig	9. Location of Well (Site, Description)
Pumping Surging Air Lift Bailing Other	DSR - 210/	MONITUR Well #6
	Water Levels	
Initial	Final	Final + 24 Hours
Date: 4/07/09 Time: /6:00	Date: 04/07/09 Time: 16:30	Date: Time:
10. Total Depth of Well (from TOC)	15. Total Depth of Well (from TOC)	20. Total Depth of Well (from TOC)
11. Water Level (from TOC)	16. Water Level (from TOC)	21. Water Level (from TOC)
12. Water Column Height Nom Dia	x = gal/ft 17. 3 Well Vol	umes 22. Size and Type of gumpor Bailer
	0.15 0.1534 18.5 Well Vol 0.65 0.5972	Ked in h
2"5CH 40 PVC MW 6"	1.47 1.2540	10 (0)/045 Culamone 1/2
2"SCH 40 PVC MW 6"  14. Well Volume (gal) 9-0726, (s) w.e. height)	2.61 2.3720 19. Purge Volu	bollons Sete T.D.
(S) w.e. neight	Final Field Analysis	00//04/3
23. Total Amount of Water Removed Pumped Dry? Yes Yes	Yes	26. Was the Groundwater Sampled (Ves.) No If yes, what was the sample number & Date: Sampling Personnel?
		amBarnhille 16:23
27. Final Parameters Time Temp C Conductivity 19.92 0.45	ph NTUS WL 7.65 TVLB 6238	
	IN THE WELL, DO NOT TAKE PH AND C	ONDUCTIVITY PARAMETERS
28. Physical Appearance and Remarks	TURBIO HO	
29. Purgewater disposal method:	ON BROUND Su	rface
	Sampling / Development Para	
Time Temp C Conductivity	pH NTUs (from TOC)	Volume Dissolved Flow Rate Photo #, (gallons) Oxygen (gpm) Observ. (1)
16:10 20.48 1.445 7	1.73 TURGIO 62.41'	Initial 5.96 25 Trans
16:14 20,13 0.486 7	1.95 TURBID	10 5.78 2.5 Tyesis
16:18 19.89 0.458 7.	.77 Slight -	20 5.6/ 2.5 Treat
16:22 19.92 0.451 7	.65 TURNIO 62.38	31 5.63 2.5 TVARA
(1) Note volume and physical character of sedime	nts removed.	
NTU = Nephelometric turbidity units	/	
WL = Water Level from Top of PVC Caping //		

Type Well	Type of Data	Well No. Pmw-/
☐ MW	☐ Development  Sampling	Sheet 1 / / / / / / / / / / / / / / / / / /
☐ Other	☐ Pump Test	
	Other	
1. Project DBS & A	2. Project Location	3. Date
Solly Dot Brine Station	Solty Dot Brine Pour	Arex 04/08/09
4. Technician  CMBornhill, PF	Lea Co, NM	
/. Method	3.Manufacturer's Designation of Rig	9. Location of Well (Site, Description)
Pumping Surging Air Lift Bailing Other	DSR-200/	PMW-/
	Water Levels	
Initial	Final	Final + 24 Høurs
- 11/		
Date: 14:35	Date: 15'00	Date: Time:
10. Total Depth of Well (from TOC)	15. Total Depth of Well (from TOC)	20. Total Depth of Well (from TOC)
78.87	79.41'	
11. Water Level (from TOC)	16. Water Level (from TOC)	21. Water Level (from TOC)
65.97	66.25	
12. Water Column Height Nom	x = gal/ft 17.3 Well Volumes	22. Size and Type of
12.9 Dia	Sch 40 Sch 80 6. 19 6	Pump or Bailer
13. Well Diameter	0.1534 18. 5 Well Volumes	
13. Well Diameter 2 / SCH 40 PVC my 6"	0.65 0.5972 /0.32	Gallers Prod. +102, 1.8"
2 11 SCH 40 PVC MV 6. 14. Well Volume (gal) 2.06 Gal 8.	1.47 1.3540 2.61 2.3720 19. Purge Volume	bylong Submersible  Sete T.D.
(s) w.e. height) 2-06 GaC		Callons Sele 1.D
23. Total Amount of Water 24. Was Well	Final Field Analysis  25 Was water added to well?	26. Was the Groundwater Sampled Yes No
Removed Pumped Dry2	No Yes	yes, what was the sample number & Date:
10 Gallous Yes No	If yes, source:	ampling Personnel? PMW-/ 04/20/09
10 641104	1	C'MBornhille 14:57
27. Final Parameters Time Temp C Conductivity	, pH NTUs WL Re	Photo Roll #,
1	·	moved Flow Rate Observations
1456 20.49 25.41		
28 Physical Annearance and Remarks	IN THE WELL, DO NOT TAKE PH AND CONDU	
7	URBIO Instally - Clear	e Sample.
29. Purgewater disposal method:	-11	······································
Est 1 digentate disposal method.	ON GROUND Surta	
	Sampling / Development Paramete	
Time Temp C Conductivity		ume Dissolved Flow Rate Photo #, lons) Oxygen (gpm) Observ. (1)
14:44 2242 17.24 7		Mil 8.30 1.0 TURANS
14:47 21.87 23.02	7.11 TURSID - 2.	5 6.62 1.0 TURA
1450 21.22 24.56	TOU TURBIN - 5.	0 6.61 1-0 TUKBIZ
1453 2062 7575 1	84 Style - 7.	
1/1/ 2016 25 W	<u> </u>	
1700 00,41 92,41 P	.83 C/CIR 44.15 10	0.0 6.32 1.0 C/eac
(1) Note volume and physical character of sedime	ents removed.	
NTU = Nephelometric turbidity units		
WL = Water Level from Top of PVC Casing Checked By	9	Date
	formel ff.	04/08/09

Appendix D
Survey Report

WELL	<b>EASTING</b>	<b>NORTHING</b>	CASING_ELEV	CONCRETE_ELEV	NOTE	STICK_UP	Latitude	Longitude
DBS-1	837410.946	617873.964	3817.091	3817.360		-0.269	32.694886	-103.370911
DBS-2	837487.158	618138.347	3820.504	3817.524		2.980	32.69561	-103.370655
DBS-3	836956.004	617833.410	3816.662	3813.953		2.709	32.694786	-103.37239
DBS-4	837516.816	617707.515	3820.374	3817.441		2.933	32.694426	-103.370571
DBS-5	836851.361	618414.069	3820.659	3818.001		2.658	32.696384	-103.372714
DBS-6	836896.578	615374.784	3812.650	3810.213		2.437	32.68803	-103.372656
DBS-7	836875.641	614857.267	3810.210	3807.210		3.000	32.686608	-103.372739
DBS-8	836580.482	614947.540	3810.699	3808.051		2.648	32.686864	-103.373696
DBS-9	836485.585	615847.216	3806.264	3803.460		2.804	32.689339	-103.373978
PMW-1	837289.690	618038.544	3821.167	3818.646		2.521	32.695341	-103.3713
MW-2	836438.049	615454.721	3812.677	3810.259		2.418	32.688261	-103.374144
MW-3	836743.571	615186.298	3812.049	3809.616		2.433	32.687516	-103.373159
MW-4	836882.305	615061.483	3811.325	3808.643		2.682	32.687169	-103.372712
MW-5	837029.110	614930.722	3808.961	3808.058		0.903	32.686806	-103.372238
MW-6	837288.689	615041.326	3810.168	3808.590		1.578	32.687104	-103.371391
NW-1(s)	837369.632	617950.772	3817.325	3817.627	SHALLOW	-0.302	32.695098	-103.371043
NW-1(m)	837369.657	617950.542	3817.351	3817.627	MIDDLE	-0.276	32.695097	-103.371043
NW-1(d)	837369.402	617950.848	3817.352	3817.627	DEEP	-0.275	32.695098	-103.371043
NW-2(s)	836860.966	615088.572	3812.497	3809.156	SHALLOW	3.341	32.687244	-103.37278
NW-2(m)	836861.043	615088.794	3812.452	3809.156	MIDDLE	3.296	32.687245	-103.37278
NW-2(d)	836861.137	615088.531	3812.460	3809.156	DEEP	3.304	32.687244	-103.37278



#### **COVER LETTER**

Wednesday, April 22, 2009

Mike McVey Daniel B. Stephens & Assoc. 6020 Academy NE Suite 100 Albuquerque, NM 87109

TEL: (505) 822-9400 FAX (505) 822-8877

RE: Salty Dog Brine Station

Dear Mike McVey:

Order No.: 0904165

Hall Environmental Analysis Laboratory, Inc. received 21 sample(s) on 4/10/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001 Texas Lab# T104704424-08-TX



Collection Date: Matrix: Qual Units  mg/L  Collection Date: Matrix: Qual Units	AQUEO <b>DF</b> 500 4/7/2009	DUS  Date Analyzed  Analyst: TAI  4/21/2009 1:27:50 PM
mg/L Collection Date: Matrix:	500 4/7/2009	Analyst: TAI 4/21/2009 1:27:50 PM
Collection Date: Matrix:	4/7/2009	4/21/2009 1:27:50 PM
Matrix:		1.10.00 P2 5
	AQUEO	7 1:18:00 PM
Qual Units		OUS
	DF	Date Analyzed
mg/L	50	Analyst: TAI 4/22/2009 2:31:16 AM
Collection Date: Matrix:		
ual Units	DF	Date Analyzed
mg/L	500	Analyst: TAF 4/21/2009 2:02:39 PM
Collection Date:	4/7/2009	3:00:00 PM
Matrlx:	AQUEO	US
ual Units	DF	Date Analyzed
mg/L	500	Analyst: TAF 4/22/2009 2:13:52 AM
Collection Date:	4/7/2009	3:45:00 PM
Matrix:		
ual Units	DF	Date Analyzed
mg/L	50	Analyst: TAF 4/22/2009 3:23:30 AM
Collection Date:	4/7/2009	4:23:00 PM
Matrix:	AQUEO	US
ual Units	DF	Date Analyzed
<b></b>	1	Analyst: TAF 4/21/2009 2:54:52 PM
O	Qual Units mg/L	Qual Units DF

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

	Daniel B. Stephens Salty Dog Brine Sta					La	b Orde	er: 0904165
Lab ID:	0904165-07		•					09 10:55:00 AM
Client Sample ID:	DB2-1					latrix:	AQUE	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	320	1.0		mg/L		10	Analyst: TA 4/21/2009 3:12:17 PM
Lab ID:	0904165-08	**************************************			Collection	Date:	4/8/20	09 10:13:00 AM
Client Sample ID:	DBS-2				M	atrix:	AQUE	ous
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	14	0.10		mg/L		1	Analyst: TAI 4/21/2009 3:29:41 PM
Lab ID:	0904165-09	7			Collection	Date:	4/8/200	09 8:44:00 AM
Client Sample ID:	DBS-3				M	atrix:	AQUE	OUS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300. Chloride	0: ANIONS	36	0.10		mg/L	•	1	Analyst: TAF 4/21/2009 3:47:05 PM
Lab ID:	0904165-10				Collection	Date:	4/8/200	9 9:28:00 AM
Client Sample ID:	DBS-4				M	atrix:	AQUE	ous
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300.0 Chloride	D: ANIONS	38	0.10		mg/L		1	Analyst: TAF 4/21/2009 4:04:30 PM
Lab ID:	0904165-11				Collection	Date:	4/8/200	9 7:58:00 AM
Client Sample ID:	DBS-5				M	atrix:	AQUE	ous
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300.0 Chloride	: ANIONS	65	1.0		mg/L	•	10	Analyst: TAF 4/21/2009 6:06:22 PM
Lab ID:	0904165-12				Collection	Date:	4/7/200	9 6:32:00 PM
Client Sample ID:	DBS-6				M	atrix:	AQUE	ous
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
	): ANIONS							Analyst: TAF

- E Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

	Daniel B. Stephens & Salty Dog Brine Statio					Lab Orde	r: 0904165
Lab ID:	0904165-13				Collection Date	e: 4/7/200	9 5:07:00 PM
Client Sample ID:	DBS-7				Matrix	k: AQUE	OUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	570	5.0		mg/L	50	Analyst: TAF 4/21/2009 6:41:10 PM
			2.0				
Lab ID:	0904165-14			. (	Collection Date	e: 4/7/200	9 5:52:00 PM
Client Sample ID:	DBS-8				Matrix	: AQUE	ous
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	58	1.0	-	mg/L	10	Analyst: TAF 4/21/2009 6:58:34 PM
Lab ID:	0904165-15			- (	Collection Date	: 4/8/200	9 6:01:00 PM
Client Sample ID:	DBS-9		*		Matrix	: AQUE	OUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 801	B: DIESEL RANGE						Analyst: SCC
Diesel Range Organ	ics (DRO)	ND	1.0		mg/L	1	4/13/2009
Motor Oll Range Org	ganics (MRO)	ND	5.0		mg/L	1	4/13/2009
Surr: DNOP		115	58-140		%REC	1	4/13/2009
EPA METHOD 801	5B: GASOLINE RANG	3E					Analyst: DAN
Gasoline Range Org	anics (GRO)	ND	0.050		mg/L	1	4/15/2009 2:17:54 AM
Surr: BFB		89.1	59.9-122		%REC	1	4/15/2009 2:17:54 AM
EPA METHOD 300.	0: ANIONS						Analyst: TAF
Chloride		210	10		mg/L	100	4/21/2009 7:15:59 PM
Lab ID:	0904165-16			(	Collection Date	: 4/8/200	9 12:56:00 PM
Client Sample ID:	NW-1 Shallow				Matrix	: AQUE	ous
Analyses		Result	· PQL	Qual	Units	DF	Date Analyzed

O	110	.li	fī.	42	

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT: Project:	Daniel B. Stephens & Salty Dog Brine Stat					L	ıb Order:	0904165
Lab ID:	0904165-17				Collectio	n Date:	4/8/2009	12:31:00 PM
Client Sample ID	: NW-1 Middle				l	Matrix:	AQUEO	JS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 30 Chloride	0.0: ANIONS	. 57	1.0		mg/L		10	Analyst: TAF 4/21/2009 8:25:37 PM
Lab lD:	0904165-18	· · · · · · · · · · · · · · · · · · ·			Collectio	n Date:	4/8/2009	12:00:00 PM
Client Sample ID	: NW-1 Deep		Mat			Matrix:	AQUEOU	JS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	D.O: ANIONS	38	0.10		mg/L		1	Analyst: <b>TAF</b> 4/21/2009 8:43:02 PM
Lab ID:	0904165-19			(	Collection	n Date:	4/8/2009	5:07:00 PM
Client Sample ID:	NW-2 Shallow				M	Matrix:	AQUEOU	JS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	).0: ANIONS	410	5.0		mg/L		50	Analyst: TAF 4/21/2009 9:00:26 PM
Lab ID:	0904165-20			(	Collection	n Date:	4/8/2009	4:51:00 PM
Client Sample ID:	NW-2 Middle				N	Aatrix:	AQUEOU	JS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	I.O: ANIONS	570	2.0		mg/L		20	Analyst: TAF 4/22/2009 11:06:09 AM
Lab ID:	0904165-21			(	Collection	Date:	4/8/2009	4:19:00 PM
Client Sample ID:	NW-2 Deep				·	latrix:	AQUEOU	JS
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD 300 Chloride	.0: ANIONS	4700	20		mg/L		200	Analyst: TAF 4/21/2009 9:35:16 PM

Ou	.1:61	
VIII		CI 8.

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
  - S Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 22-Apr-09

## **QA/QC SUMMARY REPORT**

Client:

Daniel B. Stephens & Assoc.

Project: Salty Dog Brine Station

Work Order:

0904165

Analyte	Result	Units	PQL	%Rec	LowLimit HighLimit	%RPD RPDLimit Qual
Method: EPA Method 300.0: Ar	nions					
Sample ID: 0904165-08AMSD		MSD			Batch ID: R33344	Analysis Date: 4/21/2009 5:14:09 PM
Chloride	18.72	mg/L	0.10	87.9	75 125	1.09 20
Sample ID: MB		MBLK			Batch ID: R33344	Analysis Date: 4/21/2009 12:53:01 PM
Chloride	ND	mg/L	0.10			•
Sample ID: MB		MBLK			Batch ID: R33358	Analysis Date: 4/22/2009 10:31:19 AM
Chloride	ND	mg/L	0.10			
Sample ID: LCS		LCS			Batch ID: R33344	Analysis Date: 4/21/2009 1:10:25 PM
Chloride	5.075	mg/L	0.10	101	90 110	
Sample ID: LCS		LCS			Batch ID: R33358	Analysis Date: 4/22/2009 10:48:44 AM
Chloride	4.969	mg/L	0.10	99.4	90 110	
Sample ID: 0904165-08AMS		MS			Batch ID: R33344	Analysis Date: 4/21/2009 4:56:44 PM
Chloride	18.92	mg/L	0.10	92.0	75 125	
Method: EPA Method 8015B; D	iesel Range					
Sample ID: MB-18809		MBLK			Batch ID: 18809	Analysis Date: 4/13/2009
Diesel Range Organics (DRO)	ND	mg/L	1.0			
Motor Oil Range Organics (MRO)	ND	mg/L	5.0			
Sample ID: LCS-18809		LCS			Batch ID: 18809	Analysis Date: 4/13/2009
Diesel Range Organics (DRO)	5.228	mg/L	1.0	105	74 157	
sample ID: LCSD-18809		LCSD			Batch ID: 18809	Analysis Date: 4/13/2009
Diesel Range Organics (DRO)	5.455	mg/L	1.0	109	74 157	4.25 23
Method: EPA Method 8015B: G	soline Ran	ge				
sample ID: 5ML RB		MBLK			Batch ID: R33239	Analysis Date: 4/14/2009 9:30:26 AM
Gasoline Range Organics (GRO)	ND	mg/L	0.050			
ample ID: 2.5UG GRO LCS		LCS			Batch ID: R33239	Analysis Date: 4/14/2009 6:38:55 PM
Basoline Range Organics (GRO)	0.5620	mg/L	0.050	112	80 115	

#### Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

#### Sample Receipt Checklist

Client Name DBS  Work Order Number 0904165  Checklist completed by: Signature			4 10 Date	Date Received Sample II		4/10/2009 y:	
Matrix:	Carrier name:	UPS	È				
Shipping container/cooler in good condition?		Yes		No 🗆	Not Present		
Custody seals intact on shipping container/coo	ler?	Yes	$\checkmark$	No 🗆	Not Present	Not Shipped	
Custody seals intact on sample bottles?		Yes		No 🗌	N/A	<b>√</b>	
Chain of custody present?		Yes	$\checkmark$	No 🗌			
Chain of custody signed when relinquished and	received?	Yes	$\checkmark$	No 🗆			
Chain of custody agrees with sample labels?		Yes	$\checkmark$	No 🗆			
Samples in proper container/bottle?		Yes	$\checkmark$	No 🗆			
Sample containers intact?		Yes	$\checkmark$	No 🗀			
Sufficient sample volume for indicated test?		Yes	V	No 🗆			
All samples received within holding time?		Yes	$\mathbf{V}$	No 🗆			
Water - VOA viais have zero headspace?	No VOA vials subm	itted		Yes 🗹	No 🗆		
Water - Preservation labels on bottle and cap n	natch?	Yes		No 🗌	n/a 🗹		
Water - pH acceptable upon receipt?		Yes		No 🗌	N/A 🗹		
Container/Temp Blank temperature?			2°	<6° C Accept			
COMMENTS:			- <b></b>	If given suffici	ent time to cool.		
Client contacted	Date contacted:			P-	erson contacted		
Contacted by:	Regarding:						
Comments:							
Corrective Action		•		1770			
	•						-

PAGE / OF	•	
Chain-of-Custody Record	Tum-Around Time:	HALL ENVIRONMENTAL
Client: DBS & A	Standard □ Rush	HALL ENVIRONMENTAL ANALYSIS LABORATORY
ATTN: Mike Melon	Project Name:	usses hellowsinen as a tollows
Mailing Address: PENU ABAD NE	Satty Doe Brine State	4901 Hawkins NE - Albuquerque, NM 87109
STE 100 HIbuquage NM 8	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #: 505-822-9400	ES08.0118.01.0000 4	Analysis Request
email or Fax#: 505 - 822 - 8877	Project Manager:	(i) (la (la (la (la (la (la (la (la (la (la
QA/QC Package:	Mile Mckey, PE.	3021) as only (Diesel Diesel )38's  \$60.4
	uon) i	(Gas/Diesel) (Gas/Diesel) (2,PO4,SO4) 82 PCB's
Accreditation	Sampler OM Barnhill, Pb.	TMB's (8021) TPH (Gas onl TPH (Gas onl SB (Gas/Diese 1.1) H) H) NO ₂ , PO ₄ , SO ₄ 8082 PCB's
□ NELAP □ Other		E + TMI E + TMI E + TPI 8015B ( 504.1) Is NO ₃ ,NO OA)
□ EDD (Type)		+ MTBE + MTBE hethod 80 Method 4 Method 50 Method 50 Method 50 Method 50 Method 50 Method 60 Method 80 Method 80 Method 80 Method 80 Method 80 Method 80 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Method 90 Met
	Container Preservative	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only) TPH Method 8015B (Gas/Diesel) TPH (Method 418.1) EDB (Method 504.1) 8310 (PNA or PAH) RCRA 8 Metals Anlons (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄ ) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA) Air Bubbles (Y or N)
Date Time Matrix Sample Request	Type and # Type	BTEX + TPH Met TPH (Me B310 (PN RCRA 8 Anions (f ROBA 1 Pe B260B (V B270 (Se
	1× 12 Cm/- 1/	
4/08/09 1457 H20 PMW-1	placin None	——————————————————————————————————————
14/01/09 1318 H20 MW-2	2	
4/01/09 1413 Har mw-3	3	
1500 H20 MW-4	4	
4/0/09/545 H20 MW-5	5	
4/07/09/623 H2D MW-6	6	
04/08/09 1055 Hzo DBS-1	1 1 3	
	8	
	10	
4/08/09 0928 H20 DBS-4		<del>-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+</del>
4/00/090758 H20 DBS-5		<del></del>
15 4/8 7/8 4/8 32 43 34 DBS - 6 DBS - 6	Received by: 1 Date Time	Remarks: 4 6 6
04/01/02/430 (V)	1/ 4/10/09 100s	Any avestinis Bleese Call
Date: Time: Relinquished by:	Received by: Date Time	- Mille McVey e
		Remarks: Any Questionis Messe Call  M. He Mc Vey e  505 - 822 - 9400

C	hain-	of-Cu	stody Record	Tum-Around	Time:							_	<b>-</b>						
Client:		35 É.		Standard	□ Rush													NTA TOR	
B			Ke Mevey	Project Name	e:						ww.h						KA	IOR	K T
Mailing /	Address	1.1	D / 225	Sall	y Dob- 2	Brine Statio	<b>,</b>	490	)1 H		s NE						100		
51E	100	Alba	2004 BVC, NA 87 822-9400	Project #:			1				5-397					-4107			
Phone #	: 50	05-	822-9400	E508	2.0118.	01.00004							ysis	_					
email or	ئے:#Fax	505-	822-8877	Project Mana			1)	only)	esel				SO ₄ )				ë		
QA/QC P	-		□ Level 4 (Full Validation)		_	Vey, PE.	's (8021)	(Gas	Gas/Die				S ₄	PCB's			1300		
Accredit						whill, Po-	MB	TPH	, _ ,	=	뒤		Š	8082			1/3		Ê
□ NEL/		□ Othe	r		72 is 132 To S		+	+	8015B	418.1)	504	<u>_</u>	Š	_		8	2		১
□ EDD	(Type)_			Section 1 Con			MTB	MTBE		P P	hod A	Meta	Q	Pesticides	8	- <u>i</u>	1		\ <u>\</u>
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	≣2⊥, 3,	BTEX + N	BTEX + N	TPH Method	TPH (Method	EDB (Method 504.1)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,	8081 Pes	8260B (VOA)	8270 (Semi-VOA)	Ch lour		Air Bubbles
4/01/09	1707	120	DBS-7	14 /25 ml	None	13	В	В	<b>G</b>				<b>▼</b>	8	8	8	X	+	19/4
14/07/09		130	DBS-8	11 so the st	10° 11 11	14											χ		MA
4/05/09	1801	HO	DBS-9	DINONE	West/Har	15			X								X		MA
17 7 E				14 250 X	12514	IS													
				1× 250 p		ιS													
1/08/05	1256	thro	NW-1 Shallow	1x /25 m	None	16											X		MA
4/08/05	1231	1/20	NW-1 middle	-1		17									L_				
4/08/09	1200	420	NAV-1 Deep			18	<u> </u>				$\perp$	$\perp$	_				Ш		
4/08/09	1707	tho	NW-2 Shallow	/ اد		19	<u> </u>			_	$\perp$	$\perp$	_		L				
14/00/09	1651	H20	NW-2 Middle	-   /		20	_					$oldsymbol{\perp}$	_	<u> </u>	L		М		Щ
4/04/09	1619	1120	NW-2 Decp	V _	V	21	-			_	_	$\bot$	_	↓_	_		V		
Date:	7ime:	Relinquist	100	Received by:		/ Date Time	Boi	nort.	لِــا	2		1		<u>                                      </u>			ليا	1/	
Hode	1 KF31			] ] (	41	10 /00 400	Ref	naik.	25	05	re . c	22	- 9	#11) [2]	I JL On	-	me	Vey	اعتبد
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								N	eé	les	. 01	U, d	グロ	M	e Ke	٠,	BE	15-9	7



July 15, 2008

Mr. James Millett Operations Manager PAB Services, Inc. P.O. Box 2724 Lubbock, TX 79408

Re: Groundwater Monitoring Report

Salty Dog Brine Station, Lea County, New Mexico

Dear Mr. Millett:

Daniel B. Stephens & Associates, Inc. is pleased to submit the enclosed report documenting groundwater monitoring conducted at the Salty Dog brine station on June 23, 2008. This work has been performed in partial fulfillment of the requirements of the Notification of Compliance/Enforcement Action dated May 20, 2008, which includes the Compliance Order as to the 2005 Release regarding groundwater sampling and reporting.

Groundwater samples were collected from seven monitor wells (PMW-1, MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6) and two water supply wells (ranch headquarters and brine station fresh water) for chloride analysis. Analytical results showed chloride concentrations above the New Mexico Water Quality Control Commission standard of 250 mg/L in monitor wells PMW-1, MW-2, MW-3, MW-4, and MW-5 and the brine station fresh water supply well.

The enclosed report should be forwarded to the OCD Environmental Bureau when the outstanding issues between PAB and OCD legal have been resolved. If you have any questions about the enclosed information, please contact me at (505) 822-9400.

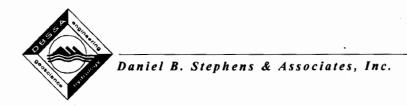
Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Michael D. McVey

Senior Hydrogeologist

MDM/js Enclosure



## GROUNDWATER MONITORING REPORT SALTY DOG BRINE STATION LEA COUNTY, NEW MEXICO

#### 1. INTRODUCTION

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this groundwater monitoring report for submission to the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (OCD) on behalf of PAB Services, Inc. (PAB) for the Salty Dog brine station located in Lea County, New Mexico (Figure 1). This report summarizes groundwater monitoring activities conducted at the site on June 23, 2008. This work has been performed in partial fulfillment of the Notification of Compliance/Enforcement Action dated May 20, 2008, which includes the Compliance Order as to the 2005 Release regarding groundwater sampling and reporting. Other activities, including current remedial activities are not addressed herein.

#### 2. SCOPE OF WORK

The scope of work consisted of measuring fluid levels in all accessible site monitor wells and collecting groundwater samples from seven monitor wells and two supply wells for laboratory analysis. Groundwater samples were submitted to TraceAnalysis, Inc. (TraceAnalysis) in Lubbock, Texas for chloride analysis using U.S. Environmental Protection Agency (EPA) Test Method 300.0.

#### 3. MONITORING ACTIVITIES

On June 23, 2008, representatives of DBS&A and PAB measured the depth to water in monitor wells PMW-1, MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6 using a properly decontaminated electronic water level meter. Table 1 provides a summary of fluid level measurements. Water levels were not measured in the ranch headquarters water supply well and the brine station fresh water supply well because of the presence of permanent submersible downhole pumps that blocked access to the wells. A potentiometric surface map was not constructed because a report from a licensed surveyor denoting the x and y coordinates and top of casing elevations for the existing monitor wells was not available. It is assumed, based on previous reports supplied to



DBS&A and regional groundwater data that the direction of groundwater flow (without pumping) is to the southeast.

Groundwater samples were collected from monitor wells PMW-1, MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6 and from the ranch headquarters water supply well and the brine station fresh water supply well on June 23, 2008. A groundwater sample was not collected from the mobile home located west of the brine well because the mobile home and the ranch headquarters use the same water supply well. DBS&A followed corporate standard operating procedures developed from EPA guidance during collection of all groundwater samples. Prior to sampling, the well was purged of a minimum of three casing volumes using a submersible pump to ensure that a representative sample of groundwater was collected. During purging, the DBS&A field technician measured water quality parameters including temperature, specific conductance, and pH to ensure that these parameters were stabilized to within 10 percent for specific conductance, 2 degrees for temperature and +/- 0.2 pH units prior to sampling. Sample containers were then filled, labeled, and placed on ice once the stabilization criteria were met. Groundwater samples were submitted under full chain-of-custody to TraceAnalysis for chloride analysis.

#### 4. RESULTS

Table 2 summarizes chloride analytical results for the nine groundwater samples collected on June 23, 2008. Figure 2 shows the distribution of chloride in groundwater at the Salty Dog brine station for the sampling event. Complete laboratory reports and chain-of-custody documentation are provided in Appendix 1. Field notes recorded during groundwater monitoring activities are included in Appendix 2.

DBS&A was unsuccessful in locating an official survey from a New Mexico licensed land surveyor for the existing Salty Dog brine station monitor wells. When asked about the survey, PAB stated that that an official survey had not been completed at the site. Because no survey information was available, DBS&A could not determine groundwater elevations in the existing site wells nor could a potentiometric surface map be developed. DBS&A used regional groundwater data and information contained in previous reports provided by PAB in making the assumption that the direction of groundwater flow is to the southeast.

The average depth to water in the vicinity of the pump house monitor wells (MW-1, MW-2, MW-3,



MW-4, MW-5, and MW-6) was determined to be 61.37 feet below ground surface (ft bgs). The depth to water in the brine pit well (PMW-1) was determined to be 67.51 ft bgs (Table 1).

Since the last monitoring event performed by PAB in May 2008, the chloride concentrations increased in monitor wells PMW-1 (8,600 to 12,700 mg/L), MW-1 (75 to 243 mg/L), MW-2 (80 to 1,480 mg/L), MW-3 (360 to 1,090 mg/L), MW-4 (512 to 5,730 mg/L), MW-5 (1,220 to 1,260 mg/L), and the brine station fresh water well (590 to 650 mg/L). The only well showing a slight decrease in chloride was MW-6 (36 to 31.4 mg/L). The ranch headquarters water supply well contained a chloride concentration of 35.4 mg/L. Currently, six of the nine wells sampled contain concentrations of chloride in excess of the NMWQCC standard (Table 2).

The groundwater monitoring results indicate that the extent of the chloride groundwater plume in the vicinity of the brine pond has not been delineated. Monitor well PMW-1 (12,700 mg/L) and the brine station fresh water supply well (650 mg/L), both located southeast (downgradient) of the brine pond, contain chloride concentrations in excess of the New Mexico Water Quality Control Commission (NMWQCC) standard (Figure 2).

To the south in the area of the brine well, pump house monitor wells MW-2 (1,480 mg/L), MW-3 (1,090 mg/L), MW-4 (5,730 mg/L), and MW-5 (1,260 mg/L) contained chloride concentrations in excess of the NMWQCC standard. The chloride groundwater plume in this area extends from the brine well downgradient (southeast) to monitor wells MW-4 and MW-5. Assuming a southeasterly groundwater flow direction, the plume is bounded downgradient by monitor well MW-6, which contained a chloride concentration of 31.4 mg/L. The cross-gradient extent of the plume, however, has not been delineated in this area (Figure 2). Upgradient, the ranch headquarters water supply well contained a chloride concentration of 35.4 mg/L, below the NMWQCC standard.

#### 5. RECOMMENDATIONS

Based on the current groundwater monitoring results and trends in chloride concentrations, DBS&A recommends the following:

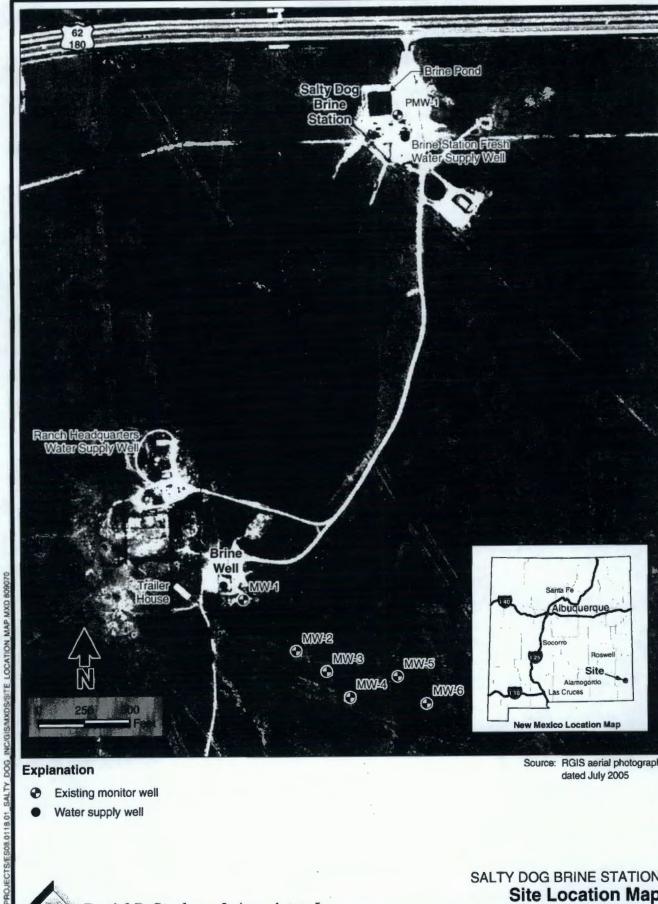
Determine the source of the chloride groundwater plume in the vicinity of the brine pond.
 To accomplish this, DBS&A has submitted a proposal to PAB for the installation of two angled soil borings beneath the brine pond to determine if the pond is leaking. In



addition, DBS&A proposes to install soil borings in the brine filling stations area and through the concrete loading pad to determine if these areas are a source of groundwater contamination.

- Delineate the extent of the chloride groundwater plume in the vicinity of the brine pond. To accomplish this, DBS&A has submitted a proposal to PAB for the installation of five new monitor wells to be located northwest, east, southeast, and south of the brine pond. After installation of the monitor wells, a New Mexico licensed land surveyor will survey the x and y coordinates and top of casing elevations for all of the existing and newly installed site monitor wells. The survey will ensure that an accurate determination of groundwater flow direction and gradient can be determined.
- Delineate the cross-gradient extent of the chloride groundwater plume in the vicinity of
  the brine well. To accomplish this, DBS&A proposes to install three additional monitor
  wells: one south-southeast of MW-4, one north of MW-5, and one south of MW-2. When
  these wells are completed, they will be surveyed by a New Mexico licensed land
  surveyor. A proposal for these monitor wells has not yet been submitted to PAB.
- Continued quarterly groundwater sampling, as required by the Compliance Order, of all site monitor wells and water supply wells to monitor contaminant concentration trends in the existing site monitor wells and establish contaminant concentration trends in the newly installed monitor wells.
- Verify the direction of groundwater flow in the vicinity of the site to aid in future actions.

**Figures** 



Explanation

- **Existing monitor well**
- Water supply well

Source: RGIS aerial photograph dated July 2005

SALTY DOG BRINE STATION **Site Location Map** 

MW-4 Well designation

5,730 Chloride concentration (mg/L)

- Existing monitor well
- Water supply well

Chloride concentration contour (dashed where inferred)

Note: Bold denotes concentration that exceeds the NMWQCC standard

Daniel B. Stephens & Associates, Inc., 07/09/2008 JN ES08.0118.01

Source: RGIS aerial photograph dated July 2005

SALTY DOG BRINE STATION
Chloride Concentrations
in Groundwater

Figure 2

**Tables** 



# Table 1. Summary of Water Level Measurements Salty Dog Brine Station, Lea County, New Mexico Page 1 of 1

Well	Screen Interval (ft bgs)	Date Measured	Depth to Groundwater (ft btoc)
Brine Pit Well (PMW-1)	63-78	06/23/08	67.51
Pump House MW-1	120-140	06/23/08	59.90
Pump House MW-2	127-147	06/23/08	61.42
Pump House MW-3	NA	06/23/08	62.06
Pump House MW-4	111-131	06/23/08	62.12
Pump House MW-5	112-132	06/23/08	60.60
Pump House MW-6	NA	06/23/08	62.17
Ranch Headquarters Water Supply Well	NA	06/23/08	NM
Brine Station Fresh Water Supply Well	NA	06/23/08	NM

ft bgs = Feet below ground surface

ft btoc = Feet below top of casing

NA = Not available NM = Not measured



#### Table 2. Summary of Chloride Groundwater Analytical Data Salty Dog Brine Station, Lea County, New Mexico Page 1 of 1

Well Number	Date	Chloride	
		Concentration (mg/L) a	
New Mexico Water Quality Conti	roi Commission Standard	250	
Brine Pit Well (PMW-1)	02/27/08	9,500 b	
	05/30/08	8,600 ^b	
	06/23/08	12,700	
Pump House MW-1	05/30/08	75⁵	
	06/23/08	243	
Pump House MW-2	02/27/08	120 ^b	
	05/30/08	80 b	
	. 06/23/08	1,480	
Pump House MW-3	02/27/08	348 b	
	05/30/08	360 b	
	06/23/08	1,090	
Pump House MW-4	02/27/08	476 b	
	05/30/08	512 ^b	
	06/23/08	5,730	
Pump House MW-5	02/27/08	1,280 b	
	05/30/08	1,220 b	
	06/23/08	1,260	
Pump House MW-6	02/27/08	32 b	
	05/30/08	36 b	
	06/23/08	31.4	
Ranch Headquarters Water Supply Well	06/23/08	35.4	
Brine Station Fresh Water Supply Well	02/27/08	630 b	
	05/30/08	590 b	
	· 06/23/08	650	

Bold indicates concentrations that exceed the applicable standard.

^a All samples analyzed by EPA method 300.0, unless otherwise noted

^b Samples analyzed by Standard Method 4500-Cl B. mg/L = Milligrams per liter

**Appendices** 

Appendix 1
Laboratory Report

Report Date: July 2, 2008 ES08.0118.01

Work Order: 8062417 Salty Dog Brine Station

Page Number: 1 of 2 P. O. Box 513, Hobbs, NM

## **Summary Report**

Mike McVey DBS-Lubbock 4611 50th St.

Lubbock, TX, 79424

Report Date: July 2, 2008

Work Order: 8062417

Project Location: P. O. Box 513, Hobbs, NM Project Name: Salty Dog Brine Station

Project Number: ES08.0118.01

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
164466	Brine Pit Well (PMW-1)	water	2008-06-23	10:50	2008-06-24
164467	Pump House - MW1	water	2008-06-23	13:50	2008-06-24
164468	Pump House - MW2	water	2008-06-23	14:33	2008-06-24
164469	Pump House - MW3	water	2008-06-23	15:40	2008-06-24
164470	Pump House - MW4	water	2008-06-23	16: <b>4</b> 5	2008-06-24
164471	Pump House - MW5	water	2008-06-23	17:57	2008-06-24
164472	Pump House - MW6	water	2008-06-23	18:40	2008-06-24
164473	Ranch Headquarters WW	water	2008-06-23	19:10	2008-06-24
164474	Brine Station Fresh WW	water	2008-06-23	19:25	2008-06-24

Sample: 164466 - Brine Pit Well

Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		12700	mg/L	3.00

Sample: 164467 - Pump House - MW1

Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		243	mg/L	3.00

Sample: 164468 - Pump House - MW2

continued ...

Report Date: July 2 ES08.0118.01	2, 2008	Work Order: 8062417 Salty Dog Brine Station	Page Number: 2 of 2 P. O. Box 513, Hobbs, NM		
sample 164468 cont	inued				
Param	Flag	Result	Units	RL	
Param Chloride	Flag	Result 1480	Units mg/L	RL 3.00	
Sample: 164469 -	· Pump House - M\	W3			
Param	Flag	Result	Units	RL	
Chloride		1090	mg/L	3.00	
Sample: 164470 -	Pump House - MV	W4			
Param	Flag	Result	Units	RL	
Chloride		5730 W5	mg/L	3.00	
Chloride	Pump House - MV		mg/L Units mg/L	3.00 RL 3.00	
Chloride Sample: 164471 - Param Chloride	Pump House - MV Flag	W5 Result 1260	Units	RL	
Chloride Sample: 164471 - Param Chloride	Pump House - MV Flag Pump House - MV	W5 Result 1260	Units	RL	
Chloride  Sample: 164471 -  Param Chloride  Sample: 164472 -	Pump House - MV Flag	Result 1260	Units mg/L	RL 3.00 RL	
Chloride  Sample: 164471 - Param Chloride  Sample: 164472 - Param Chloride	Pump House - MV Flag Pump House - MV	Result 1260  W6  Result 31.4	Units mg/L Units	RL 3.00	
Chloride  Sample: 164471 - Param Chloride  Sample: 164472 - Param Chloride	Pump House - MV Flag Pump House - MV Flag Flag	Result 1260  W6  Result 31.4	Units mg/L Units	RL 3.00 RL	
Chloride  Sample: 164471 - Param Chloride  Sample: 164472 - Param Chloride  Chloride	Pump House - MV Flag Pump House - MV Flag	Result 1260  W6  Result 31.4	Units mg/L  Units mg/L	RL 3.00 RL 3.00	
Chloride  Sample: 164471 - Param Chloride  Sample: 164472 - Param Chloride  Sample: 164473 - Param Chloride	Pump House - MV Flag Pump House - MV Flag Flag	Result 1260  W6  Result 31.4  ers WW  Result 35.4	Units mg/L  Units mg/L  Units	RL 3.00 RL 3.00	
Chloride  Sample: 164471 - Param Chloride  Sample: 164472 - Param Chloride  Sample: 164473 - Param Chloride	Pump House - MV Flag  Pump House - MV Flag  Ranch Headquart	Result 1260  W6  Result 31.4  ers WW  Result 35.4	Units mg/L  Units mg/L  Units	RL 3.00 RL 3.00	



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817-201-5260

E-Mail: lab@traceanalysis.com

#### **NELAP** Certifications

Lubbock T104704219-08-TX

El Paso T104704221-08-TX

Midland T104704392-08-TX

## **Analytical and Quality Control Report**

Mike McVey **DBS-Lubbock** 4611 50th St. Lubbock, TX, 79424

Report Date: July 2, 2008

Work Order:

8062417

Project Location: P. O. Box 513, Hobbs, NM Project Name:

Salty Dog Brine Station

Project Number:

ES08.0118.01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	<b>Ta</b> ken	Taken	Received
164466	Brine Pit Well	water	2008-06-23	10:50	2008-06-24
164467	Pump House - MW1	water	2008-06-23	13:50	2008-06-24
164468	Pump House - MW2	water	2008-06-23	<b>14:33</b>	2008-06-24
164469	Pump House - MW3	water	2008-06-23	15:40	2008-06-24
164470	Pump House - MW4	water	2008-06-23	16:45	2008-06-24
164471	Pump House - MW5	water	2008-06-23	17:57	2008-06-24
164472	Pump House - MW6	water	2008-06-23	<b>18:40</b>	2008-06-24
164473	Ranch Headquarters WW	water	2008-06-23	19:10	2008-06-24
164474	Brine Station Fresh WW	water	2008-06-23	19:25	2008-06-24

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael april

Dr. Blair Leftwich, Director

#### Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

#### Case Narrative

Samples for project Salty Dog Brine Station were received by TraceAnalysis, Inc. on 2008-06-24 and assigned to work order 8062417. Samples for work order 8062417 were received intact at a temperature of 3.9 deg C.

Samples were analyzed for the following tests using their respective methods.

Test		Method
Chloride	(IC)	E 300.0

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8062417 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: July 2, 2008

ES08.0118.01

Work Order: 8062417 Salty Dog Brine Station

Page Number: 4 of 7 P. O. Box 513, Hobbs, NM

## **Analytical Report**

Sample: 164466 - Brine Pit Well

Laboratory:

Lubbock

Analysis: QC Batch:

Parameter

Chloride

49880 Prep Batch: 42821

Chloride (IC)

Analytical Method: Date Analyzed:

E 300.0

2008-06-30 Sample Preparation: 2008-06-26 Prep Method: N/A Analyzed By:

RDPrepared By: RD

Flag

Result 12700

RL

Units mg/L Dilution 1000 RL

3.00

Sample: 164467 - Pump House - MW1

Laboratory:

Lubbock

Analysis: QC Batch:

Chloride (IC) 49880

Analytical Method:

E 300.0

Prep Method: N/A Analyzed By:

RD

Prep Batch: 42821 Date Analyzed: Sample Preparation:

2008-06-30 2008-06-26

Prepared By: RD

RL

Flag Parameter Chloride

Result 243

Units mg/L Dilution

RL

3.00

Sample: 164468 - Pump House - MW2

Laboratory:

Lubbock

Analysis: QC Batch: Prep Batch:

Chloride (IC) 49880

Analytical Method: Date Analyzed:

E 300.0 2008-06-30 Prep Method: N/A

RL

Parameter

42821

Sample Preparation:

2008-06-26

Analyzed By: RDPrepared By:

Chloride

Result 1480 Units mg/L Dilution 100

RL3.00

Sample: 164469 - Pump House - MW3

Laboratory:

Lubbock

Analysis: QC Batch: Prep Batch:

49880

42821

Chloride (IC)

Flag

Analytical Method: Date Analyzed: Sample Preparation:

E 300.0 2008-06-30 2008-06-26

Prep Method: N/A Analyzed By: RD

Prepared By: RD

continued ...

Report Date: July 2, 2008 ES08.0118.01		Work Order: 80624 Salty Dog Brine Sta	Salty Dog Brine Station		Page Number: 5 of P. O. Box 513, Hobbs, Na		
sample 16440	69 continued						
		RL					
Parameter	Flag	Result	Units	Dilution	R		
		RL					
Parameter	Flag	Result	Units	Dilution	R		
Chloride		1090	mg/L	100	3.0		
Sample: 16	4470 - Pump House - M	IW4					
Laboratory:	Lubbock		•				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/		
QC Batch:	49880	Date Analyzed:	2008-06-30	Analyzed By:	RI		
Prep Batch:	42821	Sample Preparation:	2008-06-26	Prepared By:	RI		
		RL					
Parameter	Flag	Result	Units	Dilution	R		
			13	700			
Chloride	4471 - Pump House - M	5730 1W5	mg/L	500	3.1		
Chloride  Sample: 16  Laboratory: Analysis: QC Batch:	Lubbock Chloride (IC) 49880	<b>1W5</b> Analytical Method: Date Analyzed:	E 300,0 2008-06-30	Prep Method: Analyzed By:	N/ RI		
Chloride Sample: 16	Lubbock Chloride (IC)	Analytical Method: Date Analyzed: Sample Preparation:	E 300,0 2008-06-30	Prep Method:	N/ RI		
Chloride  Sample: 16  Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (IC) 49880 42821	Analytical Method: Date Analyzed: Sample Preparation: RL	E 300.0 2008-06-30 2008-06-26	Prep Method: Analyzed By: Prepared By:	N/ RI RI		
Chloride  Sample: 16  Laboratory: Analysis: QC Batch:	Lubbock Chloride (IC) 49880	Analytical Method: Date Analyzed: Sample Preparation:	E 300,0 2008-06-30	Prep Method: Analyzed By:	N/ RE RE		
Chloride  Sample: 16: Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride	Lubbock Chloride (IC) 49880 42821	Analytical Method: Date Analyzed: Sample Preparation: RL Result 1260	E 300.0 2008-06-30 2008-06-26 Units	Prep Method: Analyzed By: Prepared By: Dilution	N/ RE RE		
Chloride  Sample: 16  Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride  Sample: 16  Laboratory:	Lubbock Chloride (IC) 49880 42821  Flag  4472 - Pump House - M Lubbock	Analytical Method: Date Analyzed: Sample Preparation: RL Result 1260	E 300.0 2008-06-30 2008-06-26 Units mg/L	Prep Method: Analyzed By: Prepared By: Dilution	N/RI RI RI		
Chloride  Sample: 16  Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride  Sample: 16  Laboratory: Analysis:	Lubbock Chloride (IC) 49880 42821  Flag  4472 - Pump House - M Lubbock Chloride (IC)	Analytical Method: Date Analyzed: Sample Preparation: RL Result 1260  Analytical Method:	E 300.0 2008-06-30 2008-06-26 Units mg/L	Prep Method: Analyzed By: Prepared By: Dilution 100  Prep Method:	N// RII RII RII RII RII RII RII RII RII R		
Chloride  Sample: 16  Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride  Sample: 16  Laboratory: Analysis: QC Batch:	Lubbock Chloride (IC) 49880 42821  Flag  4472 - Pump House - M Lubbock Chloride (IC) 49880	Analytical Method: Date Analyzed: Sample Preparation: RL Result 1260  Analytical Method: Date Analyzed:	E 300.0 2008-06-30 2008-06-26 Units mg/L E 300.0 2008-06-30	Prep Method: Analyzed By: Prepared By: Dilution 100  Prep Method: Analyzed By:	N// RII RII 3.0		
Chloride  Sample: 16  Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride  Sample: 16  Laboratory: Analysis: QC Batch:	Lubbock Chloride (IC) 49880 42821  Flag  4472 - Pump House - M Lubbock Chloride (IC)	Analytical Method: Date Analyzed: Sample Preparation: RL Result 1260  Analytical Method:	E 300.0 2008-06-30 2008-06-26 Units mg/L	Prep Method: Analyzed By: Prepared By: Dilution 100  Prep Method:	N// RII		
Chloride  Sample: 16  Laboratory: Analysis: QC Batch: Prep Batch:  Parameter Chloride  Sample: 16  Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (IC) 49880 42821  Flag  4472 - Pump House - M Lubbock Chloride (IC) 49880 42821	Analytical Method: Date Analyzed: Sample Preparation: RL Result 1260  Analytical Method: Date Analyzed: Sample Preparation: RL	E 300.0 2008-06-30 2008-06-26 Units mg/L E 300.0 2008-06-30 2008-06-26	Prep Method: Analyzed By: Prepared By:  Dilution 100  Prep Method: Analyzed By: Prepared By:	N/RI RI 3.0		
Chloride  Sample: 16  Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride  Sample: 16	Lubbock Chloride (IC) 49880 42821  Flag  4472 - Pump House - M Lubbock Chloride (IC) 49880	Analytical Method: Date Analyzed: Sample Preparation: RL Result 1260  Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2008-06-30 2008-06-26 Units mg/L E 300.0 2008-06-30	Prep Method: Analyzed By: Prepared By: Dilution 100  Prep Method: Analyzed By:	3.0 N/. RD RD RD RD R.D R.D R.D R.D R.D R.D R.D		

Report Date: July 2, 2008 Work Order: 8062417 Page Number: 6 of 7 ES08.0118.01 Salty Dog Brine Station P. O. Box 513, Hobbs, NM Sample: 164473 - Ranch Headquarters WW Laboratory: Lubbock Analysis: Chloride (IC) Analytical Method: Prep Method: N/A E 300.0 QC Batch: 49880 2008-06-30 Analyzed By: RDDate Analyzed: Prepared By: RDPrep Batch: 42821 Sample Preparation: 2008-06-26 RLParameter Dilution RLFlag Result Units Chloride 35.4 mg/L 3.00 Sample: 164474 - Brine Station Fresh WW Laboratory: Lubbock Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A QC Batch: 49880 Analyzed By: Date Analyzed: 2008-06-30 RDPrep Batch: 42821 Sample Preparation: 2008-06-26 Prepared By: RD RLFlag Parameter Result Units Dilution RLChloride 650 mg/L 50 3.00 QC Batch: 49880 Method Blank (1) QC Batch: Analyzed By: RD 49880 Date Analyzed: 2008-06-30 Prepared By: RD Prep Batch: 42821 QC Preparation: 2008-06-26

Laboratory	Control	Spike	(LCS-1)

Flag

QC Batch:	49880
Prep Batch	49891

Parameter

Chloride

Date Analyzed: 2008-06-30 QC Preparation: 2008-06-26

MDL

Result

<1.74

Analyzed By: RD Prepared By: RD

RL

3

Units

mg/L

	LCS			Spike	Matrix		Rec.
Param	Result	Units	$\mathbf{Dil}$ .	Amount	Result	Rec.	Limit
Chloride	13.8	mg/Ĺ	1	12.5	<1.74	110	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: July 2, 2008

ES08.0118.01

Work Order: 8062417 Salty Dog Brine Station

Page Number: 7 of 7 P. O. Box 513, Hobbs, NM

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	$\mathbf{RPD}$	Limit
Chloride	13.8	mg/L	1	12.5	<1.74	110	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1)

Spiked Sample: 164466

QC Batch: 49880 Date Analyzed:

2008-06-30

Analyzed By: RD

Prep Batch: 42821

QC Preparation: 2008-06-26

Prepared By: RD

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	26400	mg/L	1000	12500	12721.1	109	78.2 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	26300	mg/L	1000	12500	12721.1	109	78.2 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 49880

Date Analyzed: 2008-06-30

Analyzed By: RD

			ICVs	<b>ICVs</b>	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/L	12.5	13.8	110	90 - 110	2008-06-30

Standard (CCV-1)

QC Batch: 49880

Date Analyzed: 2008-06-30

Analyzed By: RD

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/L	12.5	13.7	110	90 - 110	2008-06-30

LAB	Order	1D#

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## TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Tel (808) 794-1296

5002 Basin Street, Suite A1 Midland, Texas 79703 Tel (432) 589-5301

200 East Surset Rd., Suite E El Paso, Texas 79922 Tel (915) 555-3443 Tel (915) 555-3443 Tel (915) 555-3443

	email: lab@traceanalysis.com							1 (800) 378-1296					1 (888) 588-3443									Fax (81/) 000-4330																		
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June 22, 2009

Mr. James Millett Project Manager PAB Services, Inc. PO Box 2724 Lubbock, TX 79408

Re: Pond release evaluation

Dear Mr Millett:

At your request, Daniel B. Stephens & Associates, Inc. (DBS&A) has assessed whether a sudden release from the Salty Dog Brine Station pond could cause the increase in chloride concentration observed at monitor well PMW-1 between May 30 and June 23, 2008. During this 24-day period chloride concentration increased from 8,600 to 12,700 mg/L. Our assessment demonstrates that chloride from a brine release due to rupturing of the pond liner could reach the water table within a 24-day period.

DBS&A used the program HYDRUS-1D (version 4 12) to determine whether a release from the pond could reach the water table within a 24-day period by simulating the vertical transport of chloride from the base of the pond to the water table. HYDRUS-1D is a public domain Windows-based modeling environment for analysis of water flow and solute transport in variably saturated porous media and is available online at www.pc-progress.com. Below is list of assumptions and values used for the modeling exercise:

- Default soil property values of sand were used (Table 1). These values were selected from the HYDRUS-1D soil catalog. The lithology at DBS-1, located approximately 200 feet to the southeast of PMW-1 and the pond, consists primarily of fine, well-sorted sand. The lithology is expected to be similar at PMW-1 and beneath the pond.
- The thickness of the unsaturated zone was set to 19 meters (~62 feet). Depth to water at the site is approximately 62 feet.
- The upper boundary condition was specified at a constant flux rate of 0.2 meters/day (m/d) (0.66 feet/day). This flux rate represents the release rate from the pond. Given the 120-foot by 120-foot footprint of the pond, this rate is equal to 49 gallons per minute.
- The lower boundary condition was specified at a constant pressure head value of zero to simulate a water table.

Daniel B. Stephens & Associates, Inc.

James Millett June 22, 2009 Page 2

• The initial pressure head and soil moisture distributions were established by performing a steady-state simulation with a recharge value of  $8.6 \times 10^{-6}$  m/d (3 millimeters/year).

**Table 1. Soil Property Values** 

Parameter	Value
Residual soil water content	0.045
Saturated soil water content	0.43
Parameter $\alpha$ in the van Genuchten soil water retention function	14.5 m ⁻¹
Parameter $n$ in the van Genuchten soil water retention function	2.68
Saturated hydraulic conductivity	7 128 m/d
Tortuosity parameter in the conductivity function	0.5

HYDRUS-1D modeling shows that chloride can reach the water table in less than 20 days at a release rate of 0.2 m/d. Figure 1 shows chloride concentration at observation nodes placed along the simulated soil profile. Chloride reaches the node placed at the water table (19 m) in less than 20 days. Greater release rates will reduce the travel time for chloride to reach the water table and may be likely given the large capacity of the pond and volume of water that was kept in the pond.

If you have any comments or questions regarding this report, please contact me at (505) 822-9400.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

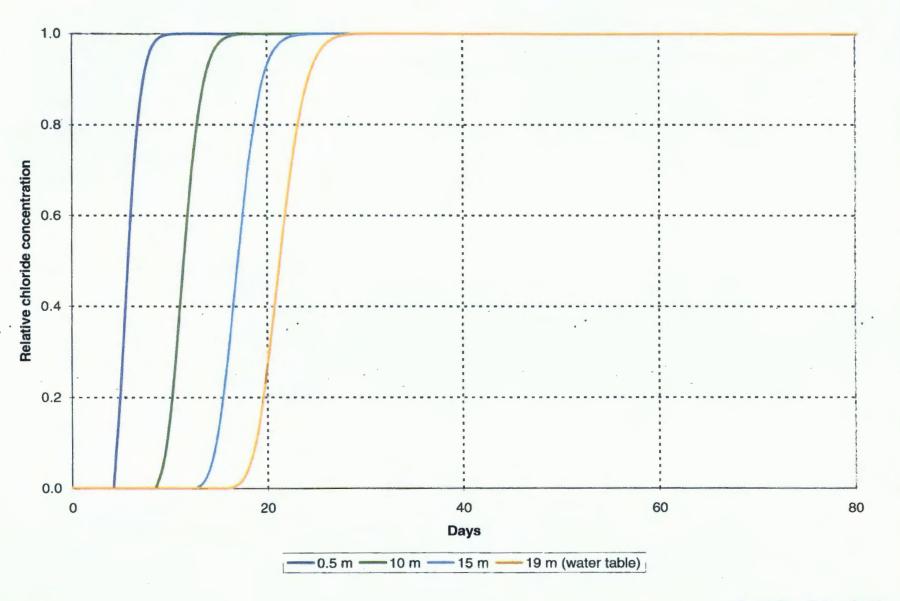
John Ayarbe

Project Hydrologist

Michael D McVey

Senior Hydrogeologist

7:17-72







IV. Snyder Ranches Inc.

PO Box 2158

Hobbs, NM 882414

- V. Salty Dog produces and sells both fresh water and brine. The fresh water is contained in two 1000 bbl. Tanks. The brine pumped from the well approximately .5 miles to the storage facility. The brine is held here for purchase by trucking companies. There are never any trucks up around the well head.
- VI. The fluids, both fresh and brine, are transferred to and from the brine well in through 3" black poly pipe that is 3/8" thick, buried to a depth of 18". This line is inspected daily for leak when the entire facility is inspected.
- VII. See Attached bore sketch.

VIII.

#### Salty Dog Emergency Action Plan

- 1. Should an accidental release occur the following actions will take place
  - a. Call James Millett at 806-241-7405
  - b. Call Terry Wallace at 5753938353
  - c. Hire Vacuum Trucks from Zia Transports INC
  - d. Notify the Oil Conservation Division
  - e. Manager will arrive on site and determine further action necessary.
- IX. A water sample report will be provided to the OCD within 30 days of this submission from Daniel B. Stephens.
- X. Salty Dog INC. is committed to complying with all OCD rules. We will be leveling our site and installing tanks on a concrete loading pad. Salty Dog will also continue to provide quarterly production reports.

#### **Public Notice**

Notice is hereby given that pursuant to the New Mexico Oil Conservation Division Regulations, the following application has been submitted for a discharge renewal to the Director of the Oil Conservation Division, P.O. Box 6429, 1220 South Saint Francis Drive, Santa Fe, NM 87505, (505) 476-3440.

The applicant, Salty Dog, Inc., PO Box 2724, Lubbock, TX 79408, has applied for a renewal to its existing discharge permit, BW-008. The facility is located approximately 12 miles West of Hobbs, New Mexico on Hwy. 62-180 in the NE ¼ of Section 5, Township 19 S., Range 36 E., Lea Co., New Mexico. The Facility produces and sells approximately 800 bbls. Of brine per day from an approved brine extraction well. Groundwater at this area is found at approximately 60 ft. and has chloride concentration that ranges from 75 milligrams per liter to 800 milligrams per liter and a total dissolved solids concentration that ranges from 500 milligrams per liter to 1500 milligrams per liter. The facility location is underlain by alluvial sediment and the Ogallala formation. The permit application addresses all phases of this operation.

Any interested person may obtain information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The application may be viewed at the above address or the Hobbs District Office at 1625 N. French Drive, Hobbs, NM, between 8:00 am and 4:00pm, Monday thru Friday, Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of the notice, during which comments may be submitted and public hearing may be requested in by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

# Preliminary Conceptual Remedial Design Report Salty Dog Brine Station Lea County, New Mexico

Prepared for New Mexico Energy, Minerals and Natural
Resources Department
Oil Conservation Division, Environmental Bureau

**December 31, 2009** 



Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109



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- **B** WinFlow Files
- C Reverse Osmosis Flows
- D Climate Data and Pond Design Spreadsheets
- E Treatment Alternatives Cost Spreadsheets



#### 1. Introduction

On behalf of PAB Services, Inc. (PAB), Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this *Preliminary Conceptual Remedial Design Report* for the Salty Dog brine station (Site). The Site is located in Lea County in southeastern New Mexico, approximately 12 miles west of Hobbs on the south side of the Hobbs/Carlsbad Highway (Figure 1). Formally, the Site is located in the J Unit of Section 5, Township 19 South, Range 36 East.

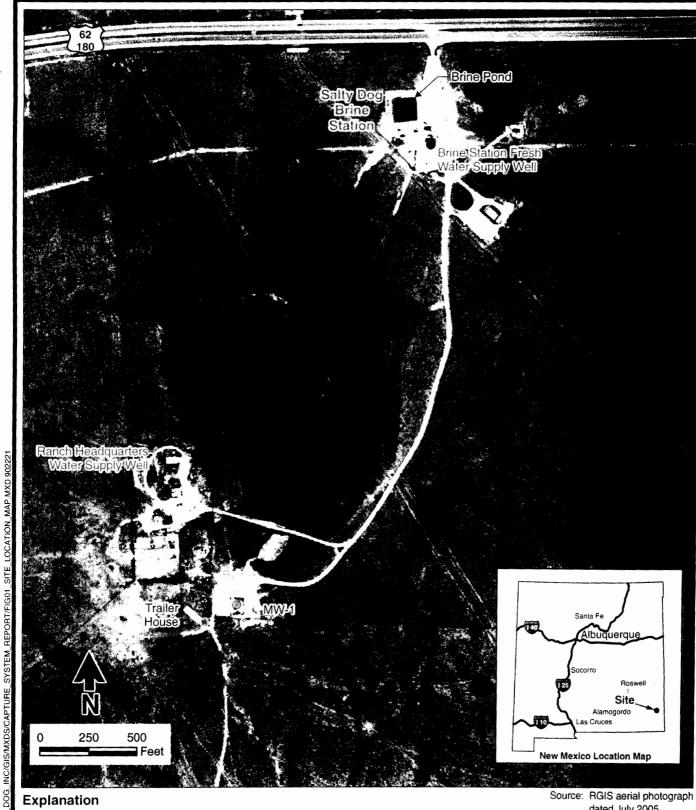
This report summarizes a hydrologic modeling effort conducted to determine groundwater extraction rates needed to capture chloride contamination originating from the area of a former brine pond and a historical release from the brine well. The report also presents an evaluation of groundwater treatment remedial alternatives and recommendations for groundwater treatment.

#### 1.1 Background

On May 19, 2008, the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (OCD) issued Administrative Compliance Order (ACO) ACO 2008-02 to Mr. Pieter Bergstein (d/b/a Salty Dog, Inc.) (NM OCD, 2008a). After issuance of the ACO, OCD and Mr. Bergstein engaged in settlement discussions to resolve the outstanding issues addressed by the ACO. The OCD and Mr. Bergstein agreed to a Settlement Agreement & Stipulated Revised Final Order (Order), NM-OCD 2008-2A (NM OCD, 2008b), for the purpose of resolving the violations outlined in the ACO.

The Order requires Mr. Bergstein to complete certain actions to address environmental compliance-related issues at the Site in accordance with milestone deliverable dates agreed upon by the OCD and Salty Dog, Inc. Specifically, the Order requires Salty Dog to address contamination resulting from documented releases in 1999, 2002, and 2005, as well as releases at the brine pond and brine loading/unloading area (brine pond area).

The ACO provides a description of each of these releases (NM OCD, 2008b). The 1999 release was caused by a hole in the casing of the Salty Dog brine well and resulted in



Water supply well

Source: RGIS aerial photograph dated July 2005

SALTY DOG BRINE STATION **Site Location Map** 



contamination of the fresh water well on Snyder Ranches, adjacent to the Site. The 2002 release was caused by a leaking tank in the vicinity of the brine well, and the 2005 release was caused by a rupture in the brine supply pipeline. The 2002 and 2005 releases were noted to have entered a fresh water playa located just north of the brine well (NM OCD, 2008b).

## 1.2 Previous Work Conducted by DBS&A at the Site

To date, DBS&A has performed the following activities at the Site under contract to PAB: (1) groundwater monitoring, (2) preparation of a Comprehensive Site Plan, (3) removal of the brine pond, (4) monitor well installation and groundwater monitoring, and (5) pumping tests. These activities are summarized in Sections 1.2.1 through 1.2.5.

#### 1.2.1 Groundwater Monitoring

In June 2008, DBS&A collected groundwater samples from existing monitor wells PMW-1 and MW-1 through MW-6, and from the ranch headquarters' water supply well and the brine station fresh water supply (DBS&A, 2008a). Laboratory results showed that, since the wells were last sampled by employees of Salty Dog in May 2008, chloride concentrations increased in six of the seven existing groundwater monitor wells (PMW-1 and MW-1 through MW-5) and in the brine station fresh water well. In six of the nine samples collected (PMW-1, MW-2 through MW-5, and the brine station fresh water supply well), chloride concentrations exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard of 250 milligrams per liter (mg/L).

The groundwater monitoring results indicated that the extent of the chloride groundwater plume beneath the brine pond area in the northern portion of the Site had not been delineated. In addition, the monitoring results indicated that the cross-gradient extent of the chloride groundwater plume at the brine well area in the southern portion of the Site had also not been delineated. Complete details and findings of the groundwater monitoring event are reported in the *Groundwater Monitoring Report* submitted to PAB on July 15, 2008 (DBS&A, 2008a).



#### 1.2.2 Comprehensive Site Plan

In September 2008, DBS&A submitted a Comprehensive Site Plan (Plan) (DBS&A, 2008b) to OCD addressing the requirements set forth in Section 15 of the Order (NM OCD, 2008b). The Plan presented a proposed project schedule and individual specifications and proposals for addressing the environmental compliance-related issues at the Site and formed the basis for future investigation, characterization, and remediation of the Site. The OCD approved the Plan on September 17, 2008.

#### 1.2.3 Brine Pond Removal

In October 2008, the brine pond located in the northern portion of the Site was removed in accordance with the Order (NM OCD, 2008b). Employees of Salty Dog pumped all of the aqueous brine from the pond into aboveground frac tanks located on-site. A trackhoe was then used to excavate the accumulated salt from the interior of the pond. The excavated salt was loaded into sealed bins and dump trucks and transported to Sundance Services, Inc. (Sundance) in Eunice, New Mexico for disposal. After the salt was removed from the pond interior, the underlying plastic liner was removed and 6 inches of clay beneath the liner was excavated. The liner and excavated clay were transported to Sundance for disposal. A total of 2,128 cubic yards of salt and contaminated soil were hauled to Sundance for disposal.

In November 2008, DBS&A completed soil sampling beneath the former brine pond and in the former brine loading area located on the east side of the pond. A total of 76 composite soil samples were submitted for chloride analysis using U.S. Environmental Protection Agency (EPA) method 300.0. Of those samples, 61 were collected from depths of 4 feet below ground surface (ft bgs) or less, and 15 were collected from depths greater than 4 ft bgs. Excavation to depths greater than 3 to 4 ft bgs was limited in most cases by the presence of caliche in the shallow subsurface.

Laboratory results indicated significant concentrations of chloride in the shallow interval (0 to 4 ft bgs) beneath the former brine pond and brine loading area. Although the number of samples collected at depths greater than 4 ft bgs was limited, there was no noticeable difference in chloride concentration between the shallower (0 to 4 ft bgs) and deeper (4 to 8 ft bgs) samples.



Complete details and findings of the brine pond excavation and soil sampling are reported in the Closure Report, Brine Pond and Brine Loading Area, submitted to the OCD on December 3, 2008 (DBS&A, 2008c).

#### 1.2.4 Monitor Well Installation and Groundwater Monitoring

In March and April 2009, DBS&A completed a field investigation at the Site to determine the magnitude and extent of impacts to soil and groundwater from the 1999, 2002, 2005, and the brine pond area releases (DBS&A, 2009a). The investigation was performed in accordance with the requirements of the Order and Sections 3.1, 3.2, and 3.3 of the Plan (DBS&A, 2008b).

The Order (NM OCD, 2008b) identified three areas of primary concern (AOPCs) requiring investigation and/or further delineation of the extent of contamination: (1) the brine pond area, (2) the brine well, and (3) the playa. To address the AOPCs and groundwater quality at the Site, DBS&A completed a field investigation program that included the installation of nine groundwater monitor wells and two nested wells. DBS&A also instituted an analytical program to assess the likely contaminants of concern (COCs) in soil and groundwater at the Site.

The soil investigation program included the installation of 11 soil borings, all of which were later completed as monitor wells to assess groundwater quality. These included 6 soil borings installed at the brine pond area in the northern portion of the Site, 4 soil borings installed downgradient at the brine well area in the southern portion of the Site, and 1 soil boring installed in the fresh water playa lake located just north of the brine well. From the 11 soil borings, a total of 89 soil samples were submitted for chloride analysis. The samples collected from the boring installed in the fresh water playa lake were also analyzed for total petroleum hydrocarbons (TPH).

Chloride concentrations in the soil were generally below the OCD standard of 500 milligrams per kilogram (mg/kg). However, 2 or more samples taken from 3 borings installed downgradient and east of the brine pond and brine loading/unloading areas contained chloride concentrations in excess of 500 mg/kg.



TPH results from soil samples submitted from the playa lake boring showed TPH concentrations exceeding the New Mexico Environment Petroleum Storage Tank Bureau action level of 100 mg/kg in the 20 to 22-ft bgs sample.

The groundwater investigation included the installation of nine monitor wells and two nested wells and the collection of groundwater samples for chloride analysis. The sample collected from the playa lake well was also analyzed for TPH. The monitor and nested wells were completed at predetermined locations as specified in Sections 3.1 and 3.2 of the Plan (DBS&A, 2008b). The locations specified in the Plan were selected to delineate the extent of the chloride groundwater plume at the brine pond area and the cross-gradient extent of the chloride plume resulting from the 1999 release at the brine well, and to determine if groundwater beneath the playa lake was impacted as a result of the 2002 and 2005 releases. A total of 21 groundwater samples were submitted for laboratory analysis: 15 from the newly installed monitor wells and 6 from the existing monitor wells.

Complete details and findings of the soil and groundwater investigation are reported in the *Monitor Well Installation and Groundwater Monitoring Report* submitted to the OCD on September 18, 2009 (DBS&A, 2009a).

#### 1.2.5 Pumping Tests

In November 2009, DBS&A oversaw the installation of two groundwater extraction wells (RW-1 and RW-2) at the Site. After the wells were installed, DBS&A performed pumping tests at both recovery wells to determine aquifer properties at the well locations (DBS&A, 2009b). These activities were performed in accordance with the requirements of the Order (NM OCD, 2008b) and Sections 3.1 and 3.4 of the Plan (DBS&A, 2008b).

RW-1 is located at the brine pond area and is screened across the top of the water table, where chloride concentrations appear to be greatest based on water quality data collected at nested well NW-1. Based on analysis of RW-1 recovery data, estimated aquifer transmissivity and hydraulic conductivity values in the area of RW-1 are 23 square feet per day (ft²/d) and 1.5 feet per day (ft/d), respectively. Analysis of step drawdown data shows that the well efficiency of RW-1 is approximately 53 percent.



RW-2 is located at the brine well area, completely penetrates the Ogallala aquifer, and is screened for 40 feet near the bottom of the aquifer. Water quality data collected at nested well NW-2 show that the greatest chloride concentrations are observed near the bottom of the aquifer. Estimated aquifer transmissivity in the area of RW-2 is 690 ft²/d and estimated hydraulic conductivity is 7.7 ft/d. The well efficiency of RW-2 is between 49 and 60 percent.

Complete details of the recovery well installations and pumping tests are reported in the Recovery Well Installation and Pump Test Report submitted to the OCD on November 20, 2009 (DBS&A, 2009a)

#### 1.3 Purpose

The purpose of this preliminary conceptual remedial design study is to develop a groundwater extraction system approach and identify a groundwater treatment alternative that together will effectively abate groundwater impacts at both the brine pond and brine well areas. The study consists of a hydrologic modeling component and an evaluation of water treatment alternatives.

This report constitutes the last of three milestone deliverables: (1) the *Monitor Well Installation* and *Ground Water Monitoring* report, submitted to the OCD on September 18, 2009, (2) the *Recovery Well Installation and Pump Test* report, submitted to the OCD on November 20, 2009, and (3) this *Preliminary Conceptual Remedial Design Report*.

## 1.4 Project Scope

The Order (NM OCD, 2008b) requires that two recovery wells be installed at the Site: one at the brine pond area in the northern portion of the Site and one at the brine well area in the southern portion of the Site. The Order also specifies that aquifer pumping tests be conducted on each recovery well to demonstrate the aquifer characteristics.

To meet these requirements, DBS&A performed hydrologic modeling to determine the groundwater extraction rates necessary to establish capture zones to intercept chloride impacts at both the brine pond and brine wells areas, and evaluated various groundwater treatment



alternatives for the extracted groundwater. Section 2 of this report describes the capture zone modeling performed for the two areas at the Site. Section 3 presents an evaluation of groundwater treatment alternatives, and Section 4 provides preliminary conceptual remedial system costs and DBS&A's recommendations.



## 2. Capture Zone Analyses

DBS&A performed hydrologic modeling to delineate capture zones at both the brine pond and brine well areas. DBS&A selected WinFlow (version 3.20) for the modeling exercise. WinFlow is distributed by Environmental Simulations, Inc. and is a Windows based analytical modeling program that simulates two-dimensional steady-state and transient groundwater flow. The model can be used to simulate the effects of wells, uniform recharge, circular recharge and discharge areas, and line sources or sinks in either confined or unconfined aquifers. The model depicts flow fields using streamlines, particle traces, and contours of hydraulic head. The model requires basic aquifer property values (e.g., hydraulic gradient and conductivity, storativity, thickness, and porosity).

The objectives of the hydrologic modeling were to:

- Determine whether pumping from existing extraction wells, RW-1 and RW-2, can provide sufficient capture of chloride-impacted groundwater at the brine pond and brine well areas
- Identify pumping rates necessary to achieve capture
- Evaluate drawdown caused by extraction well pumping and determine whether RW-1 and RW-2 have sufficient water columns to support the identified pumping rates

Before WinFlow simulations were conducted, simple capture zone width calculations were performed based on an equation presented by Fetter (1994). The purpose of the simple calculations was to explore whether pumping from only the existing extraction wells (RW-1 and RW-2) may provide sufficient capture or whether additional pumping wells may be required. This was done before more thorough analyses were performed using WinFlow and to help establish initial pumping rates used in WinFlow. The calculations demonstrated that pumping from existing extraction wells RW-1 and RW-2 can provide sufficient capture zone widths to intercept the transverse extent of chloride impacts in the two brine-impacted areas without the need for additional pumping wells. These calculations are provided in Appendix A. Appendix B contains the WinFlow modeling files.



## 2.1 Modeling Approach

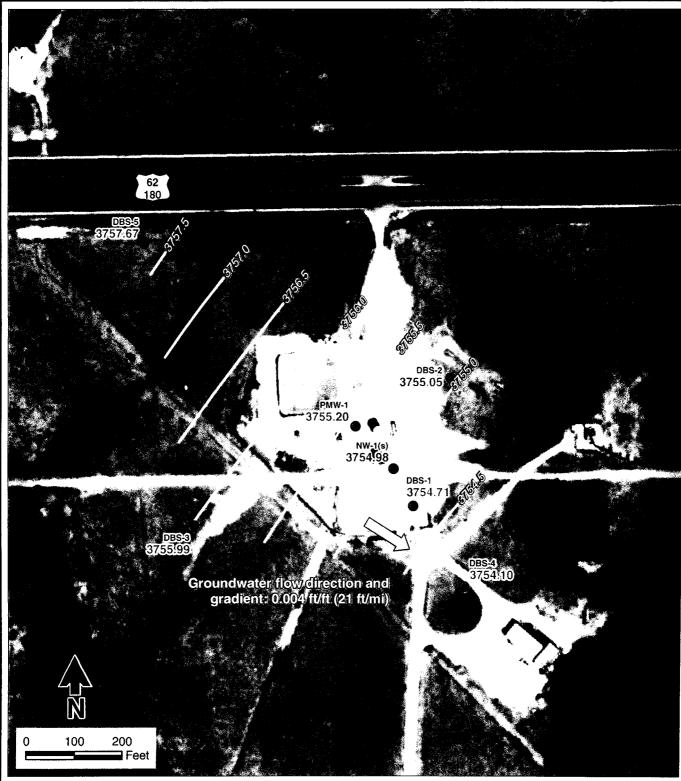
Two WinFlow simulations were performed:

- Brine pond area with pumping at RW-1
- Brine well area with pumping at RW-2

The WinFlow simulations were run using a steady-state solution to solve for contours of hydraulic head and to delineate capture zones at each pumping well. The capture zones were created by reverse-particle tracking: particles were placed at pumping wells, and their paths were tracked in a reverse direction upgradient of the pumping wells. Pumping rates at the extraction wells were adjusted so that capture zones enclosed the lateral extent of chloride impacts. The extents of chloride impacts at both the brine pond and brine well areas were determined from data collected in April 2009 (DBS&A, 2009a).

The WinFlow steady-state solution requires the following aquifer property values: magnitude and direction of hydraulic gradient, hydraulic conductivity, thickness, storativity, and porosity. These values were obtained from site-specific data generated during the field investigation performed in March and April 2009 (DBS&A, 2009a) and published information on the Ogallala aquifer:

- Based on groundwater elevation data collected during the field investigation (Figures 2 and 3) groundwater in both the brine pond and brine well areas flows to the southeast at a hydraulic gradient of 0.004 foot per foot (ft/ft). Table 1 summarizes historical groundwater level data, showing that groundwater levels have been fairly constant over the last two years.
- In November 2009, DBS&A performed pumping tests at both RW-1 and RW-2 (DBS&A, 2009b). Hydraulic conductivity and thickness values determined from these pumping tests were used in the modeling.
- Storativity and porosity values were obtained from information for the Ogallala aquifer presented in scientific literature (i.e., Blandford et al., 2008; Nativ and Smith, 1987).



DBS-1 Well designation

3754.71 Groundwater elevation, ft msl

Monitor well location

Water level elevation contour (ft msl)

Source: Google Earth aerial photograph dated September 2002

SALTY DOG BRINE STATION

Brine Pond Area Water Level Elevations in April 2009

Daniel B. Stephens & Associates, Inc., JN ES08.0118.01

MW-2 Well designation 3751.03 Groundwater elevation, ft msl

Monitor well location Water level elevation contour (ft msl) Source: Google Earth aerial photograph dated September 2002

SALTY DOG BRINE STATION

**Brine Well Area** Water level Elevations in April 2009

Daniel B. Stephens & Associates, Inc. JN ES08.0118.01



Table 1. Summary of Historical Water Level Measurements Salty Dog Brine Station, Lea County, New Mexico

Monitor Well	Screen Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
DBS-1	56.0-76.0	3817.09	04/08/09	62.38	3754.71
DBS-2	58.0-78.0	3820.50	04/08/09	65.45	3755.05
DBS-3	56.0-76.72	3816.66	04/08/09	60.67	3755.99
DBS-4	56.0-76.0	3820.37	04/08/09	66.27	3754.10
DBS-5	56.9-76.9	3820.37	04/08/09	62.99	3757.67
DBS-6	56.7-76.7	3812.65	04/07/09	62.75	3749.90
DBS-7	55.1-75.1	3810.21	04/07/09	61.74	3748.47
DBS-8	55.2-75.2	3810.70	04/07/09	61.20	3749.50
DBS-9	48.0-68.0	3806.26	04/08/09	53.93	3752.33
NW-1(s)	52.95-72.95	3817.33	04/08/09	62.35	3754.98
NW-1 (m)	99.31-119.31	3817.35	04/08/09	62.25	3755.10
NW-1 (d)	149.45-169.45	3817.35	04/08/09	62.04	3755.31
NW-2 (s)	53.35-73.35	3812.50	04/08/09	63.08	3749.42
NW-2 (m)	93.72-113.72	3812.45	04/08/09	63.27	3749.18
NW-2 (d)	126.87-146.87	3812.46	04/08/09	66.41	3746.05
PMW-1	63-78	3821.17	06/23/08	67.51	3753.66
			04/08/09	65.97	3755.20
MW-1	120-140	NA	06/23/08	59.90	NA
MW-2	127-147	3812.68	06/23/08	61.42	3751.26
			04/07/09	61.65	3751.03
MW-3	NA	3812.50	06/23/08	62.06	3750.44
			04/07/09	62.02	3750.03
MW-4	111-131	3811.33	06/23/08	62.12	3749.21
			04/07/09	62.51	3748.82
MW-5	112-132	3808.96	06/23/08	60.60	3748.36
	,		04/07/09	60.79	3748.17
MW-6	NA	3810.17	06/23/08	62.17	3748.00
			04/07/09	62.41	3747.76

^a Top of casing elevations surveyed by Pettigrew & Associates on May 28, 2009.

ft bgs = Feet below ground surface

ft btoc= Feet below top of casing

ft msl = Feet above mean sea level

NA = Not available



Sections 2.1.1 and 2.1.2 provide details regarding the WinFlow simulations for each of the two areas.

#### 2.1.1 Brine Pond Area Capture

Capture at the brine pond area (including the brine loading/unloading area) was simulated through groundwater extraction at RW-1. Table 2 presents hydraulic property values used in the simulation. Well RW-1 partially penetrates the aquifer. The screen of RW-1 is 20 feet long and was placed across the water table with approximately 5 feet above and 15 feet below the static water table. Although only 15 feet of screen is saturated under static water table conditions, the aquifer thickness was doubled to 30 feet because the well partially penetrates the aquifer, and therefore, some extracted groundwater will be derived from deeper depths. This approach provides a more conservative estimate than using a thickness of 15 feet, as the greater 30-foot thickness results in a smaller capture zone.

Table 2. Brine Pond Area Simulated Hydraulic Property Values

Parameter	Value	Source			
Hydraulic conductivity	1.5 ft/d	DBS&A (2009b)			
Thickness	30 feet	Assumed			
Specific yield	0.15	Based on information in			
Effective porosity	0.15	Blandford et al. (2008) and Nativ and Smith (1987)			
Hydraulic gradient					
Magnitude	0.004	DBS&A (2009a); Figure 1			
Direction (counterclockwise from x-axis)	321º				

Figure 4 shows the approximate extent of chloride impacts at the brine pond area. The chloride plume extends approximately 375 feet from the vicinity of the former brine pond to just southeast of DBS-1. The highest chloride concentrations are observed at PNW-1, located just upgradient of RW-1. The width of the chloride plume is estimated to be approximately 200 feet (Figure 4). Chloride concentrations at nested well NW-1 show that chloride impacts are limited to the shallow screened zone.



DBS-1 Well designation

320 Chloride concentration (mg/L)

Monitor well location

Extraction well location

3 Chloride concentration contour (mg/L) (dashed where inferred)

 $\approx\!69\%$  indicates concentration equal to or greater than the NMWQCC standard of 250 mg/L.

Source: Google Earth aerial photograph dated September 2002

SALTY DOG BRINE STATION

Brine Pond Area Extent of Chloride Impacts in April 2009

Daniel B. Stephens & Associates, Inc., JN ES08.0118.01

Figure 4



The pumping rate at RW-1 was adjusted in WinFlow until reverse-particle tracking analysis demonstrated that pumping created a capture zone that covered the width of the chloride plume shown on Figure 4.

#### 2.1.2 Brine Well Area Capture

Capture at the brine well area was simulated through groundwater extraction at RW-2. Table 3 presents hydraulic property values used in the simulation. Well RW-2 fully penetrates and is screened for 40 feet above the base of the aquifer. The aquifer thickness is 90 feet (DBS&A, 2009b).

Table 3. Brine Well Area Simulated Hydraulic Property Values

Parameter	Value	Source		
Hydraulic conductivity	7.7 ft/d	DBS&A (2009b)		
Thickness	90 feet			
Specific yield	0.15	Based on information in Blandford		
Effective porosity	0.15	et al. (2008) and Nativ and Smith (1987)		
Hydraulic gradient				
Magnitude	0.004	DBS&A (2009a); Figure 2		
Direction (counter clockwise from x-axis)	315º			

Figure 5 shows the approximate extent of the chloride plume at the brine well area, extending from the brine well for approximately 750 feet to the southeast. The highest chloride concentrations are observed at MW-3, located upgradient of RW-2. The width of the chloride plume is estimated to be approximately 325 feet (Figure 5). Chloride concentrations at nested well NW-2 increase with depth and are greatest in the deep screened zone near the base of the aquifer.

The pumping rate at RW-2 was adjusted in WinFlow until reverse-particle tracking analysis showed that pumping created a capture zone that covered the width of the chloride plume shown on Figure 5.



MW-2 Well designation

1.200 Chloride concentration (mg/L)

Monitor well location

🖶 Extraction well location

Chloride concentration contour (mg/L) (dashed where inferred)

80.89 indicates concentration equal to or greater than the NMWQCC standard of 250 mg/L.

Source: Google Earth aerial photograph dated September 2002

SALTY DOG BRINE STATION

Brine Well Area

Extent of Chloride Impacts in

April 2009

Daniel B. Stephens & Associates, Inc. JN ES08.0118.01



#### 2.2 Modeling Results

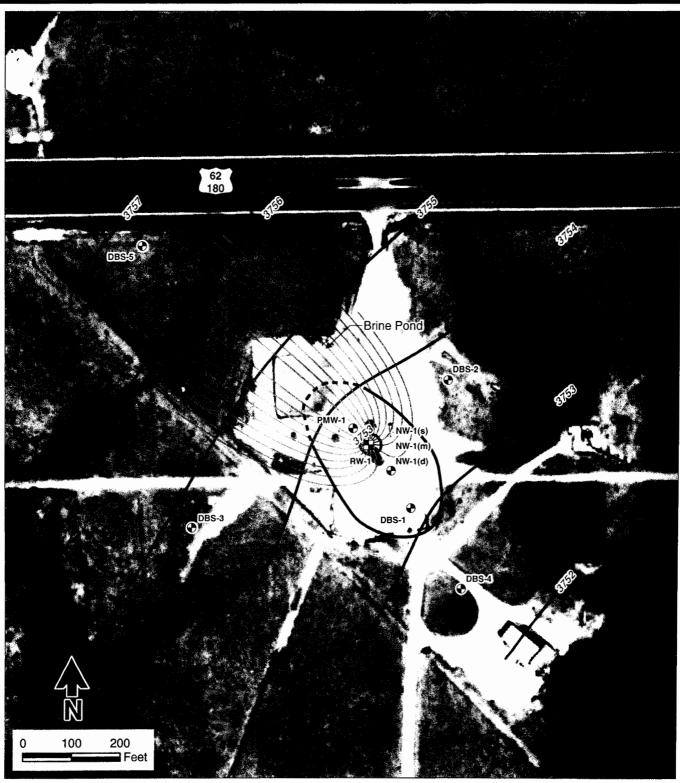
Sections 2.2.1 and 2.2.2 summarize the WinFlow modeling results and provide estimates of the expected duration of extraction system pumping for the two areas.

#### 2.2.1 Brine Pond Area Capture

Pumping RW-1 at a rate of 0.5 gallon per minute (gpm) (720 gallons per day [gpd]) provides sufficient capture of chloride-impacted groundwater originating from the former brine pond and brine loading/unloading area. Figure 6 shows WinFlow simulation results for the brine pond area. Predicted total drawdown in the area of RW-1 is 2 feet. Well RW-1 has sufficient water column (~15 feet) to support a pumping rate of 0.5 gpm. Estimated drawdown within the well casing, including a well efficiency of 53 percent, is 4 feet. The well efficiency of 53 percent was determined from the RW-1 pumping test performed in November 2009 (DBS&A, 2009b). During that pumping test, RW-1 was pumped at a maximum rate of 4.6 gpm, and total drawdown at the well stabilized to approximately 9.5 feet. RW-1 is therefore expected to be able to sustain a pumping rate of 0.5 gpm.

The expected duration of extraction system operation at the brine pond area is 4.2 years. This estimate represents the time required to remove existing groundwater impacts upgradient of RW-1. The volume of impacted groundwater upgradient of RW-1 is approximately  $1.10 \times 10^{-6}$  gallons. This volume was calculated by multiplying the area of impacts intercepted by RW-1 (Figure 7) by a thickness of 30 feet (Table 2) and an effective porosity of 0.15 (Table 2). Pumping  $1.10 \times 10^{-6}$  gallons of chloride-impacted groundwater at 0.5 gpm will take 4.2 years. Appendix A contains a worksheet with the calculation.

Chloride impacts downgradient of RW-1 that are not captured by groundwater extraction have much lower chloride concentrations than those removed by RW-1 (Figure 4). These impacts are expected to be naturally attenuated through mixing and dilution with ambient groundwater, as the area with higher chloride concentration is removed and hydraulically contained. Wells located downgradient of RW-1 will be monitored. Chloride concentrations at these monitor wells are expected to decrease after the groundwater extraction system is operating.



DBS-1 Well designation

- Monitor well location
- Extraction well location

Extent of Chloride impacts in April 2009

Reverse particle path

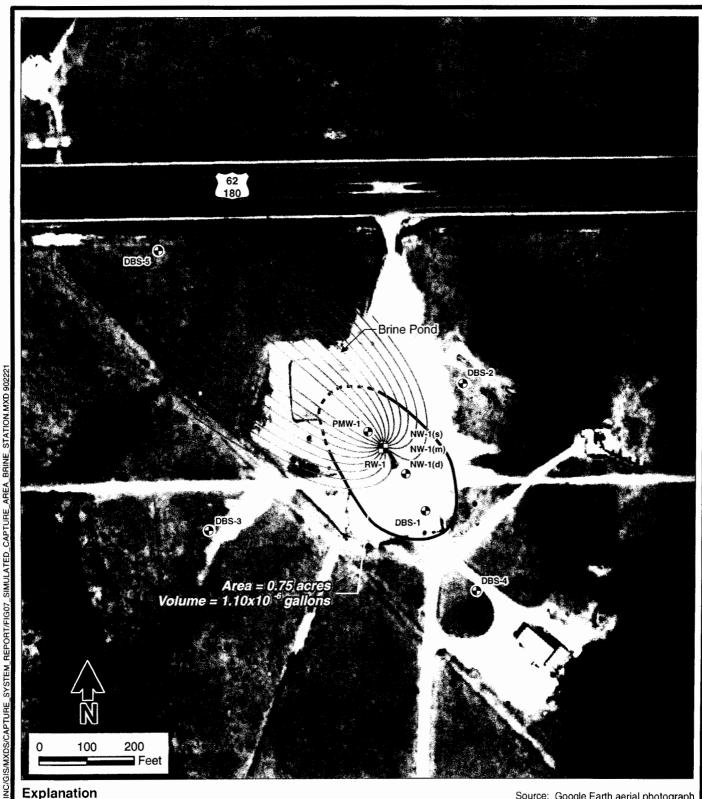
Simulated water level elevation (ft msl)

Source: Google Earth aerial photograph dated September 2002

Note: Reverse particle paths and simulated water levels created using WinFlow

SALTY DOG BRINE STATION
Brine Pond Area
Simulated Capture Zone

Daniel B. Stephens & Associates, Inc. 12/16/2009 JN ES08.0118.01



Well designation DBS-1

- Monitor well location
- Extraction well location

Extent of Chloride impacts in April 2009

Reverse particle path

Captured impacted area

Source: Google Earth aerial photograph dated September 2002

Note: Reverse particle paths and simulated water levels created using WinFlow

SALTY DOG BRINE STATION **Brine Pond Area Captured Impacted Groundwater** 

Daniel B. Stephens & Associates, Inc. JN ES08.0118.01

Figure 7



#### 2.2.2 Brine Well Area Capture

Pumping RW-2 at 15 gpm (21,600 gpd) provides sufficient capture of chloride-impacted groundwater originating from the vicinity of the brine well. Figure 8 shows WinFlow simulation results from the brine well area capture zone analysis. Well RW-2 has sufficient water column (~90 feet) to support an extraction system pumping rate of 15 gpm. Predicted total drawdown in the vicinity of RW-1 is less than 4 feet. The well efficiency of RW-2, as determined from the November 2009 pumping test, ranges from 49 to 60 percent. Using the lower well efficiency value, estimated drawdown within the well casing of RW-2 is 8 feet. During the pumping test performed in November 2009, RW-2 sustained a pumping rate of 39.4 gpm with total drawdown stabilizing at approximately 23 feet. RW-2 is therefore expected to be able to sustain a pumping rate of 15 gpm.

The expected duration of extraction system operation at the brine well area is 3.7 years. This estimate represents the time required to remove existing chloride groundwater impacts upgradient of RW-2. The volume of impacted groundwater upgradient of RW-2 is approximately  $29.0 \times 10^{-6}$  gallons. This volume was calculated by multiplying the area of impacts intercepted by RW-2 (Figure 9) by an aquifer thickness of 90 feet (Table 3) and an effective porosity of 0.15 (Table 3). Pumping  $29.0 \times 10^{-6}$  gallons of chloride impacted groundwater at 15 gpm will take 3.7 years. Appendix A contains a worksheet with the calculation.

Chloride impacts downgradient of RW-2 that are not removed through pumping exhibit lower chloride concentrations than those captured by RW-2 (Figure 5). These impacts are expected to be naturally attenuated through mixing and dilution with ambient groundwater, as the area with the greatest chloride impact is removed and hydraulically contained. Wells located downgradient of RW-2 will be monitored and are expected to show decreases in chloride concentrations after the groundwater extraction system is operating.



Figure 8



Well designation MW-2

Monitor well location

Extraction well location

Extent of chloride impacts in April 2009

Reverse particle path Captured impacted area dated September 2002

Note: Reverse particle paths and simulated water levels created using WinFlow

SALTY DOG BRINE STATION **Brine Well Area Captured Impacted Groundwater** 

Daniel B. Stephens & Associates, Inc. JN ES08.0118.01



#### 3. Treatment Alternatives

Four groundwater treatment alternatives were evaluated for the extracted groundwater:

- Pumping and reinjection into existing brine well
- Pumping and treatment by reverse osmosis (RO)
- Pumping and evaporation
- Pumping and hauling for disposal at a permitted off-site facility

Based on the modeling results detailed in Section 2.2, pumping rates of 0.5 gpm for RW-1 and 15 gpm for RW-2 are required to hydraulically contain the chloride plumes at the brine pond and brine well areas. A total pumping rate for the treatment of the anticipated flows from the two recovery wells were rounded to 16 gpm (approximately 550 barrels per day) for the evaluation of the treatment alternatives. The expected duration of extraction system operation at the brine pond and brine well areas is approximately 5 years. Using the flow rates above, a ½-horsepower (HP) pump is required for RW-1 and a ½-HP pump is required for RW-2. The well casings for RW-1 and RW-2 are both 6-inch-diameter and will easily accommodate the installation of these pump sizes. The four alternatives are described and evaluated in Sections 3.1 through 3.2. A comparison of costs and DBS&A's recommendations are presented in the Section 4.

Each alternative discussed will require a pipeline to convey the extracted groundwater between the brine pond and brine well areas. DBS&A has assumed that only one treatment system will be installed at either the brine pond area or the brine well area. For the reinjection, RO, and pond alternatives, a discharge permit or injection permit will be required from either the OCD or the New Mexico Environment Department Groundwater Quality Bureau (NMED GWQB).

# 3.1 Pumping and Reinjection

The pumping and reinjection alternative will directly reinject the extracted groundwater from recovery wells RW-1 and RW-2 into the existing brine well. This alternative will require no



treatment of the extracted groundwater prior to reinjection. Under this alternative, groundwater extracted from RW-1 and RW-2 will be pumped to an equalization tank located near the brine well, and a third pump will be used to reinject the water into the brine well for disposal. Based on a discussion with James Millett of Salty Dog, approximately 1,000 to 1,500 barrels per day can be reinjected into the brine well.

A new pipeline from RW-1 will be installed under this option. Since the flow rate from RW-1 will be less than 1 gpm, the line can be either 1-inch Schedule 40 polyvinyl chloride (PVC) or high-density polyethylene (HDPE), approximately 2,600 feet in length.

Due to the high total dissolved solids (TDS) of the reinjected groundwater, rehabilitation of the brine well will be necessary on a regular basis. The efficiency of the well will decrease due to buildup of scaling on the well screen. Rehabilitation of the well would include acidification, scrubbing, and developing to remove the built-up scale from the well screen.

An Underground Injection Control (UIC) Class I well permit from the OCD will be required prior to beginning reinjection. The UIC permit will entail testing of the brine well and potentially groundwater monitoring.

## 3.2 Pumping and Treatment by Reverse Osmosis

The pumping and treatment by RO alternative will treat extracted groundwater from RW-1 and RW-2 by RO to remove chloride and other dissolved solids. RO is a membrane treatment process that separates the dissolved solids by pressure-driven diffusion across a permeable membrane. A typical RO membrane is made of synthetic material that is permeable to some components in the feed stream and impermeable to other components. Water to be treated is pumped at high pressure across the surface of the membranes, causing a portion of the water to pass through the membranes. Water passing through the membranes is greatly reduced of dissolved solids, while the rejected water is highly concentrated in dissolved solids (MWH, 2005).



Treatment of the extracted groundwater by RO will require construction of a new facility to house the treatment system. The RO facility will consist of a pre-engineered building (approximately 20 feet by 30 feet) on a slab and footings, three equalization tanks, and plumbing and connections to the discharge system. The treatment system will consist of one anthracite/greensand filter, an activated carbon filter, and one RO treatment skid. Other required site improvements will include a power drop to the building consisting of transformers, utility pole, and meter. Three storage tanks will be placed next to the building to provide equalization storage for the filtered well water, the treated water, and the rejected water.

Extracted groundwater from RW-1 and RW-2 will enter the treatment facility at a flow rate of approximately 16 gpm with a TDS concentration of greater than 10,000 mg/L. The TDS concentration was calculated from field conductivity measurements recorded during development of the recovery wells in November 2009. The extracted groundwater will be filtered by the anthracite/greensand filter to remove particulates and reduce dissolved iron and manganese. The filtered water will then be stored in a tank before being pumped through the activated carbon filters to reduce the levels of organics. Antiscalant will be injected after the activated carbon filters to protect the RO membranes from any residual silica or other fouling material. The water will then be sent to the RO membranes for final treatment.

The RO system will be designed to treat a flow of 16 gpm. The RO process typically removes more than 95 percent of TDS from the influent water. Of the total 16 gpm entering the treatment facility, 8.2 gpm will pass through the RO membranes and be stored in a treated water storage tank, and 7.8 gpm will be rejected by the membranes. The 7.8 gpm of rejected water, also known as concentrate, will be pumped to a holding tank for disposal by reinjection into the brine well. Treated water is expected to have a TDS concentration of about 525 mg/L. Water rejected by the reverse osmosis membranes is expected to have a concentration of approximately 42,000 mg/L (Appendix C).

The treated water will be adequate for construction, irrigation, or other non potable uses. If the water is disinfected and tested, it will be potable.



## 3.3 Pumping and Evaporation

The pumping and evaporation alternative will dispose of extracted groundwater through evaporation in a retention pond. Evaporation ponds are a common means of disposing of wastewater without contamination of groundwater or surface waters in semiarid regions such as New Mexico. Evaporation ponds are lined with an HDPE liner that allows for full evaporation of the wastewater. Successful use of evaporation for disposal requires that the net evaporation equal or exceed the total water input to the system, including precipitation. The net evaporation may be defined as the difference between the evaporation and precipitation during any time period.

Based on the monthly rainfall and pan evaporation rates from weather stations located in Hobbs and Clovis, New Mexico (WRCC, 2009; OCS, 2009), an approximate water surface area of 7.5 acres is required for the evaporation pond. The resulting pond dimensions are 3 to 4 feet in depth (including a freeboard of 2 feet) with a total footprint of approximately 8 acres (Appendix D). Assuming an expected duration of extraction system operation of approximately 5 years, there will not be a significant buildup of salt in the pond. Site improvements for the pond will include fencing and access roads.

Installation of the evaporation pond will require a discharge permit from the NMED GWQB. The permit will require installation of a leak detection system and groundwater monitoring wells and periodic monitoring of these components during the life of the project. Upon completion of the treatment, the pond will need to be closed according to the discharge permit requirements.

## 3.4 Pumping and Hauling for Off-Site Disposal

The pumping and hauling alternative will dispose of extracted groundwater at a licensed off-site facility. A daily production of approximately 550 barrels will be produced at a pumping rate of 16 gpm. Assuming 50 barrels per truck, 11 truck loads per day will be required for disposal. A truck filling station will be constructed at the brine pond area, including an appropriately sized holding tank and transfer pump and a properly designed loading pad. Other site improvements will include lighting and fencing.



## 4. Cost Comparison and Recommended Alternative

A budget level cost estimate was compiled for each conceptual treatment alternative for comparison purposes. A more accurate engineer's estimate of probable cost should be completed during the design process for the chosen alternative. Table 4 presents the capital and operations and maintenance (O&M) estimates for each alternative. Based on the modeling results, a 5-year operational period is used for the project duration.

**Table 4. Treatment Alternatives Cost Comparison** 

Alternative	Common Components Capital Costs	Estimated Capital Costs	Estimated Annual O&M Costs	Capital plus 5 years of O&M
Reinjection	42,600	48,524	97,116	576,702
RO treatment	42,600	528,937	95,126	1,047,167
Evaporation pond	42,600	1,666,665	55,116	1,984,843
Hauling	42,600	15,490	601,937	3,067,775

The pumping and reinjection alternative is the least expensive option over the 5-year life of the project due to the small capital outlay and the low O&M costs. The pumping and treatment by RO alternative is the second least expensive, but entails more operational complexity and costs due to the increased electrical requirements and higher level of technology than the reinjection alternative. The pumping and evaporation pond alternative and the pumping and hauling alternative result in much higher costs over the life of the project, by \$1,000,000 and \$2,000,000, respectively. The cost spreadsheets for each of the alternatives are provided in Appendix E.

Considerations for each alternative include:

The pumping and reinjection alternative requires the least amount of new construction,
 and the O&M requirements are minimal for the wells, pumps, and tanks.



- The pumping and treatment by RO alternative is the only alternative producing potable water; however, the capital costs are high and O&M requirements are greatest of the four alternatives. The RO system also produces a waste stream that will require disposal, either by reinjection or hauling.
- The pumping and evaporation pond capital costs are highest of the four alternatives due to the pond size and required HDPE liner. O&M requirements for this option are the lowest of the four alternatives.
- The pumping and hauling alternative requires moderate capital and O&M costs for the loading pad and fill station, and high costs for the ongoing trucking and off-site disposal.
   The requirement for full-time truck drivers results in much higher labor costs than for the part-time operators needed for the other three alternatives.

Based on the costs and the minimal construction and O&M requirements, DBS&A recommends the pumping and reinjection alternative for the remediation of the chloride plumes at the brine pond and brine well areas.



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**Appendix A** 

Capture Zone and Extracted Groundwater Volume Calculations

Project Name Salty Dog Inc. Number ES08.0118.01 Date 12/8/09
Subject Estimation of Well Capture Zone Width and Well Spacing
By J. Ayarbe Calculation No. 01

### Purpose:

Calculate a well capture zone width for extraction well RW-01 at the PAB Salty Dog Site, Lea County, New Mexico. Capture zone width is calculated from a transmissivity value determined from a pumping test performed at well RW-01 in November 2009.

Extraction wells will be used to remove brine impacted groundwater caused by a release from a former brine pond.

### Given:

$$W = \frac{Q}{T \cdot \Delta h}$$
 modified from Fetter (1994). Applied Hydrogeology. page 502

W = capture zone width, Q = pumping rate, T = aquifer transmissivity;  $\Delta h$  = hydraulic gradient

Potential pumping rate (Q):

$$Q := 0.5gpm$$

Hydraulic gradient (Δh) determined from a April 2009 groundwater elevation map (DBS&A [2009]. *Monitoring Well Installation and Groundwater Monitoring Report Lea County, New Mexico.* Figure 8. September 18, 2009):

$$\Delta h := 0.004$$

Transmissivity values from Theis analysis of RW-01 recovery data (DBS&A [2009]. Recovery Well Installation and Pump Test Report Salty Dog Brine Station, Lea County, New Mexico. page 18. November 20, 2009):

Trans := 
$$23 \frac{ft^2}{day}$$

#### Solution:

Capture zone width (CZW) for a single pumping well:

$$CZW := \frac{Q}{Trans \cdot \Delta h}$$

$$CZW = 1046 \cdot ft$$

Sheet 2 of 2

Assuming only 50% of pumping is from upper (more cemented) zone, RW-01 partially penetrating:

Spacing := 
$$CZW \cdot 0.5$$

Spacing = 
$$523 \cdot ft$$

Potential number of wells needed to intercept impacted groundwater:

Width := 200ft

Estimated plume width perpendicular to groundwater

flow direction

Wells := 
$$\frac{\text{Width}}{\text{Spacing}}$$

Wells = 0.38

Project Name Salty Dog Inc. Number ES08.0118.01 Date 12/8/09
Subject Estimation of Well Capture Zone Width and Well Spacing

By J. Ayarbe Calculation No. 02

## Purpose:

Calculate a well capture zone width for extraction well RW-02 at the PAB Salty Dog Site, Lea County, New Mexico. Capture zone width is calculated from a transmissivity value determined from a pumping test performed at well RW-02 in November 2009.

Extraction wells will be used to remove brine impacted groundwater caused by a release from brine well.

### Given:

$$W = \frac{Q}{T \cdot \Delta h}$$
 modified from Fetter (1994). Applied Hydrogeology. page 502

W = capture zone width, Q = pumping rate, T = aquifer transmissivity;  $\Delta h$  = hydraulic gradient

Potential pumping rate (Q):

$$Q := 12gpm$$

Hydraulic gradient (Δh) determined from a April 2009 groundwater elevation map (DBS&A [2009]. *Monitoring Well Installation and Groundwater Monitoring Report Lea County, New Mexico.* Figure 8. September 18, 2009):

$$\Delta h := 0.004$$

Transmissivity value from Theis analysis of RW-02 pumping test data (DBS&A [2009]. Recovery Well Installation and Pump Test Report Salty Dog Brine Station, Lea County, New Mexico. page 18. November 20, 2009):

Trans := 
$$690 \frac{\text{ft}^2}{\text{day}}$$

## Solution:

Capture zone width (CZW) for a single pumping well:

$$CZW := \frac{Q}{Trans \cdot \Delta h}$$

$$CZW = 837 \cdot ft$$

Sheet 2 of 2

Assuming a 20% margin of safety:

Spacing := CZW·0.8

Spacing = 670·ft

Number of wells needed to intercept impacted groundwater:

Length := 663ft

projected distance between DBS-8 and MW-6 measured perpendicular to hydraulic gradient

Wells :=  $\frac{\text{Length}}{\text{Spacing}}$ 

Wells = 0.99

Project Name Salty Dog Inc.

Number ES08.0118.01 Date 12/21/09

Subject Estimation of captured groundwater volumes and pumping duration

By J. Ayarbe Calculation No. 03

### Purpose:

Calculate the area of groundwater impacts intercepted by pumping at RW-01 at the PAB Salty Dog Site, Lea County, New Mexico. Then estimate the time required to remove impacted groundwater at a pumping rate determined from WinFlow modeling.

### Given:

$$V = A \cdot b \cdot n_e$$

V = groundwater volume, A = captured area of impacts, b = aquifer or zone thickness;  $n_a$  = effective porosity

Area of impacts (A) determined in GIS by overlapping extent of chloride impacts and WinFlow reverse-particle tracks (see attached figure):

Thickness (b) estimated to be two times the saturated length of the RW-01 well screen. RW-01 is partially penetrating with 15 feet of screen below the static water table. Thickness doubled to account for possibility of groundwater contributions from deeper depths:

$$b := 30ft$$

Effective porosity (n_e) (based on information in Blandford et al. [2008]; Native and Smith [1987]):

$$n_e := 0.15$$

$$t = \frac{V}{O}$$

t = pumping duration, V = groundwater volume, Q = pumping rate

Pumping rate (Q) determined from WinFlow modeling:

$$Q := 0.5gpm$$

## Solution:

Volume (V) of impacted groundwater captured by RW-1:

$$V := A \cdot b \cdot n_e$$

$$V = 1.10 \times 10^6 \cdot gal$$

Estimated time needed to completely pump impacted groundwater:

$$t := \frac{V}{Q}$$

$$t = 4.2 \cdot yr$$

Explanation

SYSTEM REPORT/FIG07_SIMULATED_CAPTURE_ZONE_BRINE_STATION.MXD 90222

SALTY_DOG_INC/GIS/MXDS/CAPTURE

DBS-1 Well designation

- Monitor well location
- # Extraction well location

Extent of Chloride impacts in April 2009

Reverse particle path

Captured impacted area

Source: Google Earth aerial photograph dated September 2002

Note: Reverse particle paths and simulated water levels created using WinFlow

SALTY DOG BRINE STATION
Brine Pond Area
Captured Impacted Groundwater



Daniel B. Stephens & Associates, Inc. JN ES08.0118.01

Project Name Salty Dog Inc.

Number ES08.0118.01 Date 12/21/09

Subject Estimation of captured groundwater volumes and pumping duration

By J. Ayarbe Calculation No. 04

#### Purpose:

Calculate the area of groundwater impacts intercepted by pumping at RW-02 at the PAB Salty Dog Site, Lea County, New Mexico. Then estimate the time required to remove impacted groundwater at a pumping rate determined from WinFlow modeling.

#### Given:

$$V = A \cdot b \cdot n_e$$

V = groundwater volume, A = captured area of impacts, b = aquifer or zone thickness;  $n_e$  = effective porosity

Area of impacts (A) determined in GIS by overlapping extent of chloride impacts and WinFlow reverse-particle tracks (see attached figure):

Aquifer thickness (b) at RW-2. RW-2 fully penetrates the Ogallala aquifer:

$$b := 90ft$$

Effective porosity (n_e) (based on information in Blandford et al. [2008]; Native and Smith [1987]):

$$n_e := 0.15$$

$$t = \frac{V}{Q}$$

t = pumping duration, V = groundwater volume, Q = pumping rate

Pumping rate (Q) determined from WinFlow modeling:

$$Q := 15gpm$$

# Solution:

Volume (V) of impacted groundwater captured by RW-2:

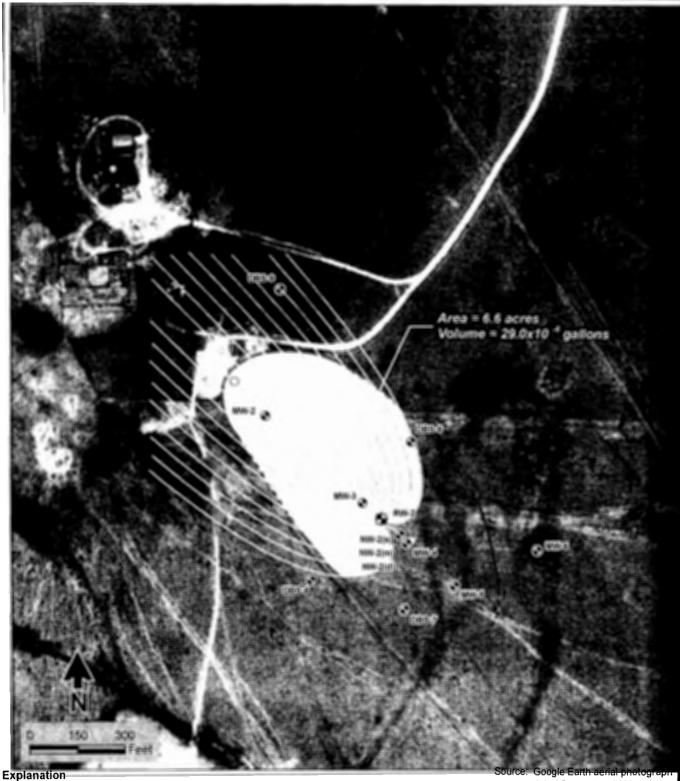
$$V := A \cdot b \cdot n_e$$

$$V = 2.90 \times 10^{7} \cdot \text{gal}$$

Estimated time needed to completely pump impacted groundwater:

$$t := \frac{V}{Q}$$

$$t = 3.7 \cdot yr$$



Well designation MW-2

Monitor well location

Extraction well location

Extent of chloride impacts in April 2009

Reverse particle path Captured impacted area dated September 2002

Note: Reverse particle paths and simulated water levels created using WinFlow

SALTY DOG BRINE STATION
Brine Well Area **Captured Impacted Groundwater** 

Daniel B. Stephens & Associates, Inc. JN ES08.0118.01

Appendix B
WinFlow Files

Appendix C
Reverse Osmosis Flows

### Salty Dog Reverse Osmosis Flows

Well ID	Flow rate (gpm)	Flow rate (L/min)	Date of Sampling	CL- (mg/L)	TDS* (mg/L)
RW-1	1	4		5000	6700
RW-2	15	57	_	15000	10720
Totals	16	61	-		

 $(C_1V_1 + C_2V_2 + C_3V_3 + C_4V_4) / V_T = C_T$ 

Chloride C_T =

14,375 mg/L (using measured values for all)

 $TDSC_T =$ 

10,469 mg/L (using measured values for all)

		Recovery Rate (%	Run time	
Run time (hours/day)	Feed rate (gpm)	P/F)	(mins/day)	Rejection Rate
24	16	55%	1440	95%

Treated	water	Reject water		Blende	ed Water	Daily Production		
							Treated and	
TDS (mg/L)	Flow (gpm)	Reject Flow	TDS (mg/L)	Flow (gpm)	TDS (mg/L)	Flow (gpm)	Blended (gpd)	Reject (gpd)
523	8.8	7.2	41875	0.00	523	8.8	12,672	10,368

Blue text are inputs

^{*}TDS calculated from field specific conductivity (11/08/09) with SpC(uS/cm)/0.66=TDS (mg/L)

**Appendix D** 

Climate Data and Pond Design Spreadsheets Pan Evapration Station Clovis 13N Precipitation Station Hobbs Airport

		Cumm.		Estimated	Estimated									
	Avg Precip	Precip	Pan Evap	Pond Evap	Cum Pond									
Month	(in)	(in)	(in)	(in)	Evap (in)									
Jan	0.44	0.44	3.83	2.55	2.55									
Feb	0.44	0.88	4.12	2.75	5.30									
Mar	0.56	1.44	6.63	4.42	9.72									
Apr	0.79	2.23	8.72	5.81	15.53									
May	1.99	4.22	10.15	6.77	22.30									
Jun	1.88	6.10	11.45	7.63	29.93									
Jul	2.10	8.20	11.65	7.77	37.70									
Aug	2.42	10.62	9.55	6.37	44.07									
Sep	2.62	13.24	7.64	5.09	49.16									
Oct	1.59	14.83	5.78	3.85	53.01									
Nov	0.57	15.40	3.95	2.63	55.65									
Dec	0.56	15.96	3.21	2.14	57.79									
Annual	15.96		86.68	57.79										
Pan Evaporation														
(inches)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Period
Clovis	3.83	4.12	6.63	8.72	10.15	11.45	11.65	9.55	7.64	5.78	3.95	3.21	86.68 192	29-2005

Precipitation Source: http://www.wrcc.dri.edu/summary/Climsmaz.html

Pan data source: http://www.ocs.orst.edu/page_links/comparative_climate/new_mexico/new_mexico.html

Site Name Calcs by: Date:	Salty Dog Evaporation Pond Gwinn Hall 12/21/09
Date.	12/21/03
Design Flow (gpm) Design Lifetime (yrs) Annual Influent Flow (gal) Annual Influent Flow (ft3) Lifetime Influent Flow (gal) Lifetime Influent Flow (ft3)	16 5 8,409,600 1,124,278 42,048,000 5,621,390

Mean Annual Precip (in)

Mean Annual Precip (mm)

Pan Evap Rate (in/yr)

Pan Coefficient (Ep/Eo)

Est Pond Evap Rate (in/yr)

15.97 Hobbs, NM data from WRCC website

405.6

80.57 Clovis, NM from WRCC website

1.5 Linacre, 2002, www-das.uwyo.edu

54 Clovis, NM from WRCC website

#### **Evap Pond Dimensions:**

Avg. Width at waterline (ft)	500
Avg. Length at waterline (ft)	650
Area (ft2)	325,000
Area (m2)	30,204
Area (acre)	7.46
Water Height (ft)	2
Storage Volume (ft3)	636,296
Storage Volume (m3)	18,020
Storage Volume (gal)	4,759,494

#### Water Balance Calculations:

Month	Inflow (gal)	Direct Precip (gal)	Total Inflow (gal)	Evap (gal)	Vol Chg (gal)	Pond Volume (gal)	Water Depth (ft)
Jan	700,416	89,137	789,553	517,263	272,290	272,290	0.1
Feb	700,416	89,137	789,553	556,429	233,124	505,414	0.2
Mar	700,416	113,447	813,863	895,418	-81,556	423,858	0.2
Apr	700,416	160,041	860,457	1,177,684	-317,228	106,630	0.0
May	700,416	403,141	1,103,557	1,370,814	-267,257	0	0.0
Jun	700,416	380,857	1,081,273	1,546,386	-465,113	0	0.0
Jul	700,416	425,425	1,125,841	1,573,397	-447,556	0	0.0
Aug	700,416	490,252	1,190,668	1,289,781	-99,113	0	0.0
Sep	700,416	530,768	1,231,184	1,031,824	199,360	199,360	0.1
Oct	700,416	322,108	1,022,524	780,621	241,902	441,262	0.2
Nov	700,416	115,473	815,889	533,469	282,419	723,681	0.3
Dec	700,416	113,447	813,863	433,528	380,334	1,104,016	0.5
Annual	8,404,992	3,233,230	11,638,222	11,706,616	-68,394		

## **Salty Dog Evaporation Pond**

Inputs:				
Width at waterline (ft)	500			
Length at waterline (ft)	650			
Sideslope:1 (below waterline)	3			
Depth (ft) below waterline	2			
Anchor Trench Runout (ft)	1			
Sideslope:1 (above waterline)	3			
Berm Height Above Waterline (ft)	2			
Top of berm width (ft)	4			
Outputs:				
·	Width of pond base (ft) =	488	Footprint area (acres) with berm =	8.2
	Length of pond base (ft) =	638	Footprint area (acres) at top at inside of berm =	7.78
•	rismoid below waterline (cf) =	636,296	Footprint area (acres) at waterline =	7.46
	rismoid below waterline (cy) =	23,567	Width of top at inside of berm (ft) =	512
•	ismoid below waterline (gal) =	4,760,130	Length of top at inside of berm (ft) =	662
Approximate surface area of sid	• ,	14,395	Values of reigns aid above waterline (aft -	000 000
Арргох	imate surface area base (sf) =	311,344	Volume of prismoid above waterline (cf) = Volume of prismoid above waterline (cy) =	636,296 23,567
			Volume of prismoid above waterline (cgr) =	4,760,130
			Approximate surface area of side slopes above waterline (sf) =	4,700,100
Total liner are	ea below water level (sf) =	325,739	Approximate liner runout area, side slopes (sf) =	2,348
	ea above water level (sf) =	2,348	, фр. с	_,0.10
	otal airspace volume (cf) =	1,272,592	Berm dimensions:	
	tal airspace volume (cy) =	47,133	Base (ft) =	16
	otal pond capacity (gal) =	9,520,261	Top Width (ft) =	4
	te total surface area (sf) =	325,739	Height (ft) =	2
	al liner surface area (sf) =	328,087	X-Sect Area (sf) =	20
	ond + Berm volume (cy) =	25,312	Perimeter (ft) =	
•	ona . Berm volume (cy) –	20,312	Volume of berm around pond (cy) =	2,356 1.745
			volume of being around point (cy) –	1,/40

#### Notes:

This spreadsheet assumes waterline is at grade.

Therefore below waterline is cut, and above waterline (ie the berm) is fill.

The liner is calculated to run up to the top of the berm and then into an anchor trench.

The berm is calculated as symmetrical above the waterline.

Appendix E

Treatment Alternatives Cost Spreadsheets

## **Summary Table**

Alternative	Con	Common Components Costs		stimated pital Costs	stimated nual O&M Costs	Capital plus 5 years of O&M		
Direct Injection	\$	42,600	\$	48,524	\$ 97,116	<del>\$\$</del>	576,702	
RO Treatment	\$	42,600	\$	528,937	\$ 123,662	\$	1,189,847	
Evaporation Pond	\$	42,600	\$	1,666,665	\$ 55,116	\$	1,984,843	
Hauling	\$	42,600	\$	16,075	\$ 601,937	\$	3,068,361	

#### Salty Dog Remediation Alternative Evaluation

Depth to Water	Flow (gpm)	HP
65.80	0.5	0.03
60.32	15	0.65
24.0		
0.68		
750		
12		
0.1		
\$ 37.75		
\$ 452.97		
	65.80 60.32 24.0 0.68 750 12 0.1 \$ 37.75	65.80 0.5 60.32 15 24.0 0.68 750 12 0.1 \$ 37.75

#### Pipeline and Well Pump Installation

Item	Unit	Quantity	U	nit Cost	Total
1.5-inch PVC, DR-26 water line, common trenching,					
bedding, select backfill, testing and compaction,					
complete in place	LF	2600		\$8	\$ 20,800
Fittings (estimated at 10% of total pipe cost)	LS	1	5	2,080	\$ 2,080
Water meter 1.5-inch, installed	EA	1	5	2,750	\$ 2,750
RW-1 pump installation (0.125 HP)	EA	1	\$	2,800	\$ 2,800
RW-2 pump installation (0.5 HP)	EA	1	\$	3,600	\$ 3,600
Subt	otal (excluding mobi	lization & demob	)		\$32,030
	Mobilization/Der	nobilization (10%	)		\$ 3,203
	Constructi	on Staking (2.5%	)		\$ 801
		Survey (3%	)		\$ 961
Engineering Service	es for Design and C	onstruction (18%	)		\$ -
	Construction	Permitting (2.5%	)		\$ 801
	C	ontingency (15%	)		\$ 4,805
Y				Total =	\$ 42 600

# Alternative - Water Hauling (Costs per personal communication with Gandy-Marley, Inc.) Hauling and Disposal

Using 23040 gallons per day 2100 gallons per load

11 loads per day

Assume a one year cost period

Yields 365 days of hauling

Therefore 4015 loads per year

Using \$120 transport and \$0.60/barrel disposal costs \$ 1,649 per day

Yields \$ 601,937 per year for disposal

#### **Fill Station Capital Costs**

Item	<u>Unit</u>	Quantity	Unit Pi	rice	Tota	al Price
Transfer pump installation (pump, pad, plumbing)	Lump sum	1	\$	4,500	\$	4,500
Power from existing transformer	Lump sum	1	\$	3,000	\$	3,000
Fencing, chain link, 6' high, w/ double 8-foot gates, 3	3					
strand barbed wire	LF	80	\$	26.00	\$	2,080
Clear and grub	AC	0.2	\$	4,475.00	\$	895
Truck Pad						
Concrete pad	SY	40	\$	140.00	\$	5,600
·	Fill stations and	road improven	nante cani	tal coet ie -	•	16.075

Salty Dog Reverse Osmosis Treatment Facility Engineer's Estimate of Probable Cost

	Eligineer's Estimate of 1 Tobable Cost				
Item No.	ltem	Quantity	Unit	Unit Cost	Total Price
			10	404.045.00	<b>****</b>
	Mobilization/Demobilization	1	LS	\$31,815.00	\$31,815
2	Construction staking by the contractor	1	LS	\$2,500.00	\$2,500
3	Clearing and grubbing land	1.0	AC	\$1,500.00	\$1,500
4	Geotech soil borings, testing, and reporting, for foundation data	1.0	LS	\$4,600.00	\$6,600
5	Testing soils, compaction, concrete	1	LS	\$2,500.00	\$2,500
6	Bollards, 4-inch diameter steel, concrete filled, cip	2	EA	\$400.00	\$800
7	Fencing, 6' high, w/ double 8-foot gates, 1 strand barbed wire	220	LF	\$26.00	\$5,720
8	General Site work			Subtotal	\$51,435
9	1.5-inch PE, SDR-26 water line, common trenching, bedding, select backfill, testing and compaction, cip	1,500	LF	\$12.50	\$18,750
10	Fittings, valves for water lines (estimated at 10% of total pipe cost)	1	LS	\$1,875.00	\$1,875
11	Heat tape, insulation, and pipe jacketing for all exterior above ground piping, cip	60	LF	\$35.00	\$2,100
12 Exterior Piping		Subtotal	\$22,725		
13	Slab and footings, reinforced, cip	20	CY	\$195.00	\$3,900
14	Pre-Engineered building (40' X 40'), w/ interior walls, doors, and safety equipment, cip	600	SF	\$29.50	\$17,700
15	5,000 gal storage tanks (pre-RO and post-RO), tank, gravel ring w/ gravel, tank placement, plumbing, level controls, cip	3	EA	\$9,500.00	\$28,500
16	Electrical utility connection for RO plant	1	LS	\$25,000.00	\$25,000
17	HVAC, installation, ductwork, complete in place	1	LS	\$8,500.00	\$8,500
18	RO System (Siemens Skid Model M83R006 or EQ. plus pretreatment and peripheral equipment, and startup assistance)	1	LS	\$145,000.00	\$145,000
19	RO System Installation Labor and Materials, (Plumbing, electrical, mechanical)	1	LS	\$94,250.00	\$94,250
20	Plumbing, valves, and appurtenances	1	LS	\$14,000.00	\$14,000
21	RO Concentrate transfer pumps Grundfos CRN 10-2 or equivalent, cip	2	LS	\$3,500.00	\$7,000
22	Multimedia filter backwash pump Grundfos 15-2 or equivalent, cip	1	LS	\$4,500.00	\$4,500
23	Filtered water transfer pumps, Grundfos 10-3 or equivalent, cip	2	LS	\$3,500.00	\$7,000
	RO Facility Subtotal \$355,				

Subtotal (excluding mobilization) \$397,695 Subtotal of Base Bid \$429,510 Contingency @ 15% \$64,427 Permitting \$35,000 Total \$528,937 Salty Dog RO System Estimation of Monthly Expenses

#### Flows/Hours of operation

riows/nours of operation				
	Input to skid		16	gpm
	Total daily output		23040	gallons
Minutes of operation to	get 30000 gallons		1440	minute
•	hrs/day operation		24.0	hrs/day
	, ,			•
Electricity				
•	hours		24.0	
	hp		25	
	w/hp		750	
5	System kWHrs/day		450	
	HVAC kWHrs/day		63	
	\$/kwHr		0.1	
	\$/month	\$	1,590.30	•
Parts/Supplies (monthly estimate)			,	
Disinfection		\$	-	
Antiscalant		\$	250.00	
Membranes		\$	400.00	
Cartridge Filters		\$	50.00	
Sampling/Testing		\$	450.00	
Maint/Parts		\$	250.00	
	•	\$	1,400.00	•
			,	
Total Electricity/Supplies/Parts(\$/month)		\$	2,990.30	
Monthly Labor (@\$65.0/hr, 4 hrs/day/ 7 days/wk)		\$	7,280.00	
RO System monthly operation estimate	•		10,270.30	•
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Well pump power costs				
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Direct Injection Capital Costs						
10,000 Tank	LS	1	\$	12,000.00	\$	12,000
Injection Pump Installation	LS	1	\$	1,500.00	\$	1,500
Site Improvements	SY	1	\$	23.82	\$	24
Permitting	LS	1	\$	35,000.00	\$	35,000
Fill st	ation and road	d improve	ments	capital cost	\$	48,524
Direction Injection O&M Costs		*				
Total Electricity/Supplies/Parts(\$/month)					\$	952.97
Monthly Labor (@\$65.0/hr, 2 hrs/day/ 7 days/wk)					\$ ;	3,640.00
Well Rehabilitation					\$ :	3,500.00
Direction Injection System monthly op-	eration estima	ate (onsite	only -	no hauling)	\$	8,092.97

# Salty Dog Brine Waste Disposal Ponds Preliminary Cost Estimate

Item No.	Description	Quantity	Units	Unit Cost	Total Cost
Brine V	Vaste Disposal System				
1	Mob/demob/grubbing/clean-up	1	ls	\$28,000	\$28,000
2	Pond excavation/preparation (8 acres)	25,000	су	\$3	\$75,000
3	Berm preparation	0	су	\$12	\$0
4	40 mil secondary HDPE pond liner	328,000	sf	\$1.45	\$475,600
5	Geonet between liner layers	0	sf	\$0.50	\$0
6	Leak detection & collection system	1	ea	\$12,500	\$12,500
7	Leak detection sump pumping equipment	2	ls	\$18,000	\$36,000
8	60 mil primary HDPE pond liner	328,000	sf	\$1.65	\$541,200
9	Seeding, erosion control fabric, and outside slope armoring with site gravel	1,000	sy	\$1.25	\$1,250
10	3" dia. brine waste discharge piping from entrance gate to pond, valving, flow control	1	ls	\$7,500	\$7,500
11	Site Perimeter Fencing (5' mesh), signage	2,600	lf	\$26	\$67,600
12	Perimeter drainage control	1	ls	\$5,000	\$5,000
14	Groundwater monitor wells	3	ea	\$15,000	\$45,000
		Dis	posal Sy	stem Subtotal	\$1,294,650
Suppor	t Services				
1	Construction surveying/staking/testing	8	acre	\$7,000	\$56,000
2	Construction oversight/inspection/admin	1	ls	\$65,000	\$65,000
3	Liner integrity QA/QC testing	8	acre	\$7,000	\$56,000
4	Record drawings	1	ls	\$8,500	\$8,500
5	Permitting	1	ls	\$35,000	\$35,000
Support Services Subtotal					\$220,500
CONSTRUCTION SUBTOTAL					\$1,515,150
Contingency 10.0%				\$151,515	
		CONS	TRUC	TION TOTAL	\$1,666,665

QA/QC = Quality Assurance/Quality Control
ls = lump sum, cy = cubic feet, sf = square feet, ea = each

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	DEDDECENTATIVE	african amore	the same regard from the same statements from the same specification and construction and same statements of the same same in a same statement of the same same same same same same same sam	- American project of principal sufficiency on	gas as introduce numbers and in the standard of the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and in the standard and i
FACILITY	REPRESENTATIVE:				

Ticket # 100044
Lease Operator/Shipper/Company:
Lease Name: Sa / L. Dag
Transporter Company:
Date: 10-10-07 Vehicle No. 23 Driver No
I = I = I = I = I
TYPE OF MATERIAL James
☐ Produced Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms ☐ Contaminated Soil ☐ C-117 No.:
☐ Other Materials ☐ BS&W Content:
Description:
COLUME OF MATERIAL BBLS. / YARDS
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporte Statement at the above described location, and that it was tendered by the above described shipper. This wi certify that no additional materials were added to this load, and that the material was delivered withou incident.
DRIVER:  FACILITY REPRESENTATIVE:

Ticket # 100086
Lease Operator/Shipper/Company:
Lease Name: Selly Dog
Transporter Company: 6/00 Time 12:03 AM/PM
Date: 10-20-08 Vehicle No. 05 Driver No
Charge To: 2015
TYPE OF MATERIAL James
☐ Produced Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms ☐ Contaminated Soil ☐ C-117 No.:
☐ Other Materials ☐ BS&W Content:
☐ JETOUT ☐ CALLOUT
VOLUME OF MATERIAL BBLS. 12 ARDS
AS A CONDITION TO SUNDANCE SERVICES, INC. S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
DRIVER: MANO Alderos
FACILITY REPRESENTATIVE:

	· ·	11 0	Ticket #	<u> 100084</u>		
Lease Operator/Shipper/Company: 2 /4-1 Rog						
Lease Name:	)aa					
1			Time 12:00	ΔÑ PM		
Transporter Company:	20		Time <u>ja vo o</u>	. <del>ح.س</del> ۲۰۱۳		
Date: 10.20-68 Veh	icle No	03	Driver No.			
Charge To: Sty Do	20					
	TVD	E OF MATERIAL	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa	^		
	1176	E OF MAILMAL	- James	7		
☐ Produced Water		<b>Drilling Fluids</b>	Completic	on Fluids		
☐ Tank Bottoms		Contaminated Soil	C-117 No.	:		
	_					
Other Materials		BS&W Content:				
~ 11			☐ JETOUT			
Description:			☐ CALLOUT			
VOLUME OF MATERIAL		BBLS. /2	YARDS			
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.						
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DRIVER: a Mall to mally						
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FACILITY REPRESENTATIVE:		A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			
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P.O. Box 1737 ★ Eunice, New Mexico 88231

(575) 394-2511

	Ticket # 1000/8				
Lease Operator/Shipper/Company:	Salty Dog				
Lease Name: Salta Dos	1				
Transporter Company:	Time _//: 40AMYPM				
Date: 10-20-08 Vehicle N	lo. 0 9 Driver No				
Charge To:					
TY	PE OF MATERIAL Jane S				
☐ Produced Water ☐	Drilling Fluids Completion Fluids				
☐ Tank Bottoms ☐	Contaminated Soil				
☐ Other Materials ☐	BS&W Content:				
Description:	☐ JETOUT ☐ CALLOUT				
VOLUME OF MATERIAL	BBLS. /Z YRDS				
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.					
DRIVER:					

	licket # 1000/9
Lease Operator/Shipper/Company	1: Salty Wag
Lease Name: Sa / Lo Obo	3
Transporter Company:	Daws, Time 11:42 AM/PM
Date: 10.20.08 Vehic	cle No. Driver No
Charge To: Salty Dog	
	TYPE OF MATERIAL Jame S
☐ Produced Water	☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil C-117 No.:
Other Materials	BS&W Content:
Description: 52/4	☐ JETOUT ☐ CALLOUT
VOLUME OF MATERIAL	BBLS. /2 MRDS
JOB TICKET, OPERATOR/SHIPPER REPRESE. MATERIAL EXEMPT FROM THE RESOURCE. TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEAD BY VIRTUE OF THE EXEMPTION AFFORDEI. WITH THE EXPLORATION, DEVELOPMENT  ALSO AS A CONDITION TO SUNDANCE TICKET, TRANSPORTER REPRESENTS AND TRANSPORTER IS NOW DELIVERED BY TRANSPORTER IS NOW DELIVERED BY TRANSPORTER AT THIS WILL CERTIFY that the a Statement at the above described local	EVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS NTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS , CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO LTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, D DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  THE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO ANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  The subove Transporter loaded the material represented by this Transporter above Transporter loaded the material represented shipper. This will were added to this load, and that the material was delivered without
DRIVER: JULIUM	

			- 11 0		Ticket # 100097
Lease C	Operator/Shipper/C	ompany:	1/4 Dog		
Lease N	Jame: Se H	De			
	orter Company:	Chavarr	14	_Time	AM/PM
Date:	10.20-08	Vehicle No	1	Driver N	lo
Charge	To: 50/	1 Das			
		TYPE	OF MATERIA	L	Tome S
	Produced Water		Drilling Fluids		Completion Fluids
	Tank Bottoms		Contaminated Soil		C-117 No.:
	Other Materials		BS&W Content:		
	Description:	17			JETOUT CALLOUT
· OLUMI	E OF MATERIAL		BBLS.	ARDS	
JOB TICKE MATERIAL TIME, 40 U BY VIRTUI WITH THE ALSO TICKET, TI FRANSPOR	ET, OPERATOR/SHIPPER L EXEMPT FROM THE RI L.S.C. 6901, ET SEQ., THE E OF THE EXEMPTION A EXPLORATION, DEVEL O AS A CONDITION TO S RANSPORTER REPRESE RTER IS NOW DELIVERE ES WILL CERTIFY to t at the above describe	REPRESENTS AND SESOURCE, CONSERVENT OF THE SESOURCE, CONSERVENT OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURCE OF THE SESOURC	VATION AND RECOVERY SAF. CODE 361.001 ET SE G FLUIDS, PRODUCED VUCTION OF CRUDE OIL CES, INC.'S ACCEPTANCE IS THAT ONLY THE MATER TO SUNDANCE SERVICE Ansporter loaded the later it was tendered	VASTE MATE ACT OF 197 Q., AND REC VATERS, ANI DR NATURAL OF THE MA' ERIAL DELI' CES, INC.'S  material r by the abo	LS SHIPPED WITH THIS RIAL SHIPPED HEREWITH IS 6, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED L GAS OR GEOTHERMAL ENERGY. TERIALS SHIPPED WITH THIS JOB VERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL. TERPER SHIPPED WITH THIS WILL TERPER SHIPPED WITH THIS WILL TERPER SHIPPED WITH THIS JOB TO SHE WAS THE SHIPPER TO THE SHIPPED WITH THIS WILL THE SHIPPED WITH THIS WILL THE SHIPPED WITH THIS WILL THE SHIPPED WITH THIS WILL THE SHIPPED WITH THIS WILL THE SHIPPED WITH THIS WILL THE SHIPPED WITH THIS WILL THE SHIPPED WITH THIS WILL THE SHIPPED WITH THIS WILL THE SHIPPED WITH THIS WILL THE SHIPPED WITH THIS WILL THE SHIPPED WITH THIS WILL THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED WITH THE SHIPPED
ORIVER <u>:</u>	Mone	Chava	nie 5 k		
ACILITY	REPRESENTATIVE:	5			1

		Ticket # 100099
Lease Operator/Shipper/Company	: Salty Pos	
Lease Name: Salty Dos	2	
6	1005	ime AM(PM)
Transporter Company: James	nge -	mieAwur wy
Date: 10-20-08 Vehic	cle No <i></i>	Driver No.
Charge To: Salty Do	۹	
	7	
	TYPE OF MATERIAL	James
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	C-117 No.:
Other Materials	BS&W Content:	
		☐ JETOUT
Description:		CALLOUT
VOLUME OF MATERIAL	BBLS.	ARDS
AS A CONDITION TO SUNDANCE SER JOB TICKET, OPERATOR/SHIPPER REPRESEI	· ·	
MATERIAL EXEMPT FROM THE RESOURCE,		
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEAI		
BY VIRTUE OF THE EXEMPTION AFFORDED		
WITH THE EXPLORATION, DEVELOPMENT	OR PRODUCTION OF CRUDE OIL OR	NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDANC	E SERVICES INC 'S ACCEPTANCE O'	F THE MATERIALS SHIPPED WITH THIS JOB
	,	JAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY TRA		
THIS WILL CERTIFY that the a	above Transporter loaded the m	aterial represented by this Transporter
Statement at the above described local	tion, and that it was tendered by	the above described shipper. This will
	vere added to this load, and th	at the material was delivered without
incident.		
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DRIVER: ALH	•	
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FACILITY REPRESENTATIVE:		

	$\sim 44$ $\sim$	Ticket # IUUIUI			
Lease Operator/Shipper/Compan	y: Ja 44 109				
Lease Name: Salty Do	9				
Transporter Company:	+5 Callonza	Time 1.20 AM/PM			
Date: 10-20-08 Vehi	icle No. <u>/ઇ/</u>	Driver No.			
Charge To: Salty Dag	}				
	TYPE OF MATERIA	L Jomes			
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids			
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:			
Other Materials	☐ BS&W Content:				
Description:		☐ JETOUT ☐ CALLOUT			
OLUME OF MATERIAL	BBLS. 12	ARDS			
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.					
лишет.					
DRIVER: Gres Deltin					
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FACILITY REPRESENTATIVE:					

÷	0110	Ticket # 100093
Lease Operator/Shipper/Company	: Jaty Dog	
Lease Name: Solly Do	a,	
Transporter Company:	7. Ai	Time /2:30AM/PM
(0.64.0		
Date: 10-20-01 Vehic	ele No	Driver No.
Charge To: Ja / Do C	7	
	TYPE OF MATERIAL	- James
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
Other Materials	☐ BS&W Content:	
Description: 5 / /		☐ JETOUT ☐ CALLOUT
	}	
VOLUME OF MATERIAL	BBLS.	YARDS
AS A CONDITION TO SUNDANCE SERV JOB TICKET, OPERATOR/SHIPPER REPRESEN MATERIAL EXEMPT FROM THE RESOURCE, TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEAL BY VIRTUE OF THE EXEMPTION AFFORDED	ITS AND WARRANTS THAT THE W CONSERVATION AND RECOVERY TH AND SAF. CODE 361.001 ET SEC	ASTE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME TO Q., AND REGULATIONS RELATED THERETO,
WITH THE EXPLORATION, DEVELOPMENT (	OR PRODUCTION OF CRUDE OIL C	R NATURAL GAS OR GEOTHERMAL ENERGY.
	VARRANTS THAT ONLY THE MATE	OF THE MATERIALS SHIPPED WITH THIS JOB ERIAL DELIVERED BY OPERATOR/SHIPPER TO CES, INC.'S FACILITY FOR DISPOSAL.
Statement at the above described locat	ion, and that it was tendered	material represented by this Transporter by the above described shipper. This will that the material was delivered without
DRIVER: 40608	,05	
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	Ticket # 10092
Lease Operator/Shipper/Compan	y: Salfy Pog
Lease Name: Sold Do	6 6)
Transporter Company:	Time 12:25 AM/PM
Date: 11)-20-08 Vehi	cle No Driver No
Charge To:	
Charge 10.	
ŕ	TYPE OF MATERIAL Janes
☐ Produced Water	☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil C-117 No.:
Other Materials	BS&W Content:
	C ISTOLIT
Description:	☐ JETOUT ☐ CALLOUT
CLUME OF MATERIAL	BBLS. Z ARDS
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	VICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS NTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS
	, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO
	LTH AND SAF, CODE 361,001 ET SEQ., AND REGULATIONS RELATED THERETO,
	O DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDANC	CE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB
	WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO ANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
	above Transporter loaded the material represented by this Transporter tion, and that it was tendered by the above described shipper. This will
	were added to this load, and that the material was delivered without
incident.	
DRIVER:	$\bigvee$
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FACILITY REPRESENTATIVE:	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa

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Transpo	orter Company: <u>⊀                                   </u>	***		Time <u>/2: 0</u>	VI/PIM
Date:	0.20.68 vel	nicle No. <u>352</u>	2	Driver No.	
	OH n				
Charge	10:	2			
		TYPE OF I	MATERIAL	Jance,	S
	Produced Water	☐ Drilling	g Fluids	☐ Completion I	luids
	Tank Bottoms	Contai	minated Soil	C-117 No.:	
	Other Materials	☐ B\$&W	Content:		
		_			
	Description: Sold			☐ JETOUT ☐ CALLOUT	
VOLUME.	OF MATERIAL	DDI C	17	YARDS	
VOLUME	OF WATERIAL	BBLS.	(	ARUS	
IOB TICKE	CONDITION TO SUNDANCE SET, OPERATOR/SHIPPER REPRESED EXEMPT FROM THE RESOURCE	SENTS AND WARRAN	TS THAT THE WAS	STE MATERIAL SHIPPED H	IEREWITH IS
3	S.C. 6901, ET SEQ., THE NM HE OF THE EXEMPTION AFFORD				
	EXPLORATION, DEVELOPMEN				
AI S	O AS A CONDITION TO SUNDAN	NCE SERVICES INC '	S ACCEPTANCE OF	F THE MATERIALS SHIPPE	D WITH THIS IOB
ГІСКЕТ, ТІ	RANSPORTER REPRESENTS AN	D WARRANTS THAT	ONLY THE MATER	HAL DELIVERED BY OPER	ATOR/SHIPPER TO
TRANSPOF	RTER IS NOW DELIVERED BY T	RANSPORTER TO SU	NDANCE SERVICE	ES, INC.'S FACILITY FOR D	ISPOSAL.
Statemen	S WILL CERTIFY that the t at the above described loc at no additional materials	cation, and that it	was tendered by	y the above described s	hipper. This will
ORIVER:	mike forth	the			
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ACII ITV	REPRESENTATIVE:			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	-

	Ticket # 100104
Lease Operator/Shipper/Compan	y: Solty Dog
Lease Name: 56/4-1/	a company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the comp
Transporter Company:	Ca 7 Time 1.75 AMPM
Date: /0-20-0 Veh	icle No Driver No
Charge To:	bs
	TYPE OF MATERIAL
	TYPE OF MATERIAL Janus 5
☐ Produced Water	☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil C-117 No.:
Other Materials	BS&W Content:
	☐ JETOUT
Description: Salt	□ CALLOUT
LUME OF MATERIAL	BBLS. / ARDS
AS A CONDITION TO SUNDANCE SE	RVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS
JOB TICKET, OPERATOR/SHIPPER REPRESI	ENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS
	E, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO ALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO,
	ED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED
WITH THE EXPLORATION, DEVELOPMENT	FOR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDAN	ICE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB
	WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY TR	RANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the	above Transporter loaded the material represented by this Transporter
Statement at the above described loc	ation, and that it was tendered by the above described shipper. This will
	were added to this load, and that the material was delivered without
incident.	
DRIVER: MULLIN	
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FACILITY REPRESENTATIVE:	- I was a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second

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Transpo	orter Company:	<u>dcat</u>	Time/; 23AMÆM
	Manac .		2.0 Datases No.
Date:_/	0.20.08 v	enicle No.	o. <u>22</u> Driver No
Charge	To: Salty We	29	
		TYP	PE OF MATERIAL James
	Produced Water		Drilling Fluids Completion Fluids
	Tank Bottoms		Contaminated Soil C-117 No.:
	Other Materials		BS&W Content:
	Description:		☐ JETOUT ☐ CALLOUT
OLUME	OF MATERIAL		BBLS. /2 ARDS
40			
JOB TICKE MATERIAL TIME, 40 U BY VIRTUE WITH THE ALSO TICKET, TR	T, OPERATOR/SHIPPER REPRI EXEMPT FROM THE RESOUF S.C. 6901, ET SEQ., THE NM H OF THE EXEMPTION AFFOR EXPLORATION, DEVELOPME D AS A CONDITION TO SUNDA RANSPORTER REPRESENTS A	ESENTS AND RCE, CONSER IEALTH AND DED DRILLII NT OR PROD ANCE SERVIO ND WARRAN	INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS D WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS ERVATION AND RECOVERY ACT OF 1976, AS AMENDED, FROM TIME TO D SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, ING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED EDUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB NTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
Statement	t at the above described lo	ocation, and	Transporter loaded the material represented by this Transporter nd that it was tendered by the above described shipper. This will dded to this load, and that the material was delivered without
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VTI IIOA	DEDDECENTATIVE.	-سر (	

		Ticket # 100105
Lease Operator/Shipper/Company:	Salty 109	
Lease Name: Salty Pog	\	
Transporter Company: Ranghi	lla	Time 128 AMPM
ti Oca aca		
Date: 10 20 0 Vehicle	e No	Driver No.
Charge To: Salty Dog	V.	
	TYPE OF MATERIA	L James
☐ Produced Water	□ Drilling Fluids	Completion Fluids
☐ Tank Bottoms	Contaminated Soil	C-117 No.:
Other Materials	BS&W Content:	
Description:		☐ JETOUT ☐ CALLOUT
y925,		
)LUME OF MATERIAL	BBLS. $/2$	ARDS
ALSO AS A CONDITION TO SUNDANCE STICKET, TRANSPORTER REPRESENTS AND WATTRANSPORTER IS NOW DELIVERED BY TRANSPORTER IS WILL CERTIFY that the above	S AND WARRANTS THAT THE WONSERVATION AND RECOVERY HAND SAF. CODE 361.001 ET SE DRILLING FLUIDS, PRODUCED WE PRODUCTION OF CRUDE OIL OF SERVICES, INC.'S ACCEPTANCE ARRANTS THAT ONLY THE MAT SPORTER TO SUNDANCE SERVICES OVE Transporter loaded the	VASTE MATERIAL SHIPPED HEREWITH IS Y ACT OF 1976, AS AMENDED FROM TIME TO YOU, AND REGULATIONS RELATED THERETO, WATERS, AND OTHER WASTE ASSOCIATED OR NATURAL GAS OR GEOTHERMAL ENERGY.  OF THE MATERIALS SHIPPED WITH THIS JOB ERIAL DELIVERED BY OPERATOR/SHIPPER TO
		that the material was delivered without
DRIVER: Allauguill		
FACILITY REPRESENTATIVE:		

		7110	Ticket # 100106
Lease C	perator/Shipper/Company	y: Jalty U	34
Lease N	lame: Schy fic	6c	
Transpo	orter Company: (and	iche	Time/:30AMPM
Date:	0-20-08, Vehi	cle No	Driver No.
	O(11)	0.0	
Charge	10:	234	
		TYPE OF MATER	RIAL James
	Produced Water	Drilling Fluids	Completion Fluids
	Tank Bottoms	Contaminated S	Soil C-117 No.:
	Other Materials	☐ BS&W Content	:
	Description:		☐ JETOUT
	20-17		
LUME	OF MATERIAL	BBLS.	/7 MRDS
- this file			
JOB TICKE MATERIAL TIME, 40 U BY VIRTUE	T, OPERATOR/SHIPPER REPRESEI EXEMPT FROM THE RESOURCE S.C. 6901, ET SEQ., THE NM HEAI OF THE EXEMPTION AFFORDEI	NTS AND WARRANTS THAT T , CONSERVATION AND RECO LTH AND SAF. CODE 361.001 I D DRILLING FLUIDS, PRODUC	OF THE MATERIALS SHIPPED WITH THIS THE WASTE MATERIAL SHIPPED HEREWITH IS WERY ACT OF 1976, AS AMENDED FROM TIME TO ET SEQ., AND REGULATIONS RELATED THERETO, CED WATERS, AND OTHER WASTE ASSOCIATED OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.
TICKET, TF	RANSPORTER REPRESENTS AND	WARRANTS THAT ONLY THE	NCE OF THE MATERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY OPERATOR/SHIPPER TO SERVICES, INC.'S FACILITY FOR DISPOSAL.
Statement	t at the above described loca	tion, and that it was tend	I the material represented by this Transporter ered by the above described shipper. This will and that the material was delivered without
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DRIVER:	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	5	
FACILITY	REPRESENTATIVE:		

3		- /1 A -		licket # TUUTU
Lease Operator/Shipper/Company	:	14 160	<u></u>	
Lease Name: Solfy Dog				
Transporter Company: 361	Hav	port	_Time/	AMÆM)
Date: 10.20-08 Vehic	olo No	103	Driver N	lo.
Date: Venic	HE NO	<u> </u>	Directiv	
Charge To: A 17 406				
	TYPI	E OF MATERIA	L 10	ane S
☐ Produced Water		Drilling Fluids		Completion Fluids
☐ Tank Bottoms	9	Contaminated Soil		C-117 No.:
Other Materials		BS&W Content:		
Description: Sa / F			_	JETOUT CALLOUT
VOLUME OF MATERIAL		BBLS. / Z	ARDS	
AS A CONDITION TO SUNDANCE SER JOB TICKET, OPERATOR/SHIPPER REPRESEN MATERIAL EXEMPT FROM THE RESOURCE, TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEAI BY VIRTUE OF THE EXEMPTION AFFORDED WITH THE EXPLORATION, DEVELOPMENT OF ALSO AS A CONDITION TO SUNDANCE TICKET, TRANSPORTER REPRESENTS AND TRANSPORTER IS NOW DELIVERED BY TRANSPORTER IS NOW DELIVERED BY TRANSPORTER AT THIS WILL CERTIFY that the a Statement at the above described local certify that no additional materials of incident.	NTS AND CONSER TH AND DRILLIN OR PROD E SERVIC WARRAN ANSPORT	WARRANTS THAT THE WATION AND RECOVERY SAF. CODE 361.001 ET SENG FLUIDS, PRODUCED WUCTION OF CRUDE OIL CES, INC.'S ACCEPTANCE TS THAT ONLY THE MATER TO SUNDANCE SERVICE TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS TO SUNDANCE SERVICTORS SUNDANCE SERVICTORS SUNDANCE SERVICTORS SUNDANCE SERVICTORS SUNDANCE SERVICTORS SUND	VASTE MATE ACT OF 197 Q., AND REC VATERS, AND DR NATURA OF THE MA ERIAL DELI CES, INC.'S  material r by the abo	ERIAL SHIPPED HEREWITH IS 16, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED L GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB VERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL. The presented by this Transporter ove described shipper. This will
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			-1-0-		licket # 100100
Lease Opera	ntor/Shipper/Company:		1+4 409		
Lease Name	: Salty Noe				
Transporter	Company://	1_		Time	/ AM/PM
Date: 10 6	20-08 Vehic	le No	ÛH	Driver i	No
Charge To:	Salty Wo	<u> </u>			
		TYPE	OF MATERIAL	<b>-</b> (j	ane S
☐ Pro	duced Water		Drilling Fluids		Completion Fluids
☐ Tan	k Bottoms		Contaminated Soil		C-117 No.:
☐ Oth	er Materials		BS&W Content:		
Des	cription: 5/4				JETOUT CALLOUT
LUME OF	MATERIAL		BBLS. $\sqrt{2}$	ARDS	
JOB TICKET, OPE MATERIAL EXEM TIME, 40 U.S.C. 6 BY VIRTUE OF T	MPT FROM THE RESOURCE, 0 1901, ET SEQ., THE NM HEALT HE EXEMPTION AFFORDED	TS AND V CONSERV I'H AND S DRILLIN	WARRANTS THAT THE WAY VATION AND RECOVERY A SAF. CODE 361.001 ET SEQ G FLUIDS, PRODUCED WA	ASTE MATI ACT OF 197 )., AND REA ATERS, AN	ALS SHIPPED WITH THIS ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED IL GAS OR GEOTHERMAL ENERGY.
TICKET, TRANSF		'ARRANT	TS THAT ONLY THE MATE	RIAL DELI	ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL.
Statement at th	he above described locati	on, and	that it was tendered b	by the abo	represented by this Transporter ove described shipper. This will material was delivered without
		_	- Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andr		
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FACILITY REP	RESENTATIVE:	and the second second			
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Lease Operator/Shipper/Company	y: Selty Was	
Lease Name:	200	
Transporter Company:		Time/:_//AM/PM
Date: //) 20-08 Vehi	cle No <i>(</i> )	Driver No.
Charge To: 1/4 00	<u></u>	
	TYPE OF MATERIA	AL James
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soi	I C-117 No.:
☐ Other Materials	BS&W Content:	
Description:		☐ JETOUT☐ CALLOUT
LUME OF MATERIAL	BBLS.	2-yards
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEA BY VIRTUE OF THE EXEMPTION AFFORDEI	NTS AND WARRANTS THAT THE , CONSERVATION AND RECOVER LTH AND SAF. CODE 361.001 ET S D DRILLING FLUIDS, PRODUCED	
	WARRANTS THAT ONLY THE MA	CE OF THE MATERIALS SHIPPED WITH THIS JOB ATERIAL DELIVERED BY OPERATOR/SHIPPER TO VICES, INC.'S FACILITY FOR DISPOSAL.
Statement at the above described loca	tion, and that it was tendere	e material represented by this Transporter d by the above described shipper. This will d that the material was delivered without
DRIVER: 24		
FACILITY REPRESENTATIVE:		State of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state

			211		Ticket # 100113
Lease Operator	/Shipper/Company	/:	144 lbg		
Lease Name:	Salty Dog				
Transporter Co	mpany: <u>[]/e/2</u>	<u> </u>		_Time/	.5/_AMPM
Date: 1080	<u>∂</u> 8 Vehi	cle No	2	Driver N	lo
Charge To:	144 Oas				
		TYPE	OF MATERIA	L J4:	VIV.0 5
☐ Produc	ed Water		Drilling Fluids		Completion Fluids
☐ Tank Bo	ottoms		Contaminated Soil		C-117 No.:
☐ Other M	laterials		BS&W Content:		
Descrip	tion:				JETOUT CALLOUT
190					
LUME OF MA	TERIAL		BBLS.	YARDS	
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without					
incident.				· · · · · · · · · · · · · · · · · · ·	
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		Ticket # 100118
Lease Operator/Shipper/Compar	ny: 100	
Lease Name:	Doo	
107	<del>//2</del>	1:51
Transporter Company:	C 35 L	Time AM/PM
Date: 10-20-08 Veh	nicle No.	Driver No.
$\leq H \circ 0$		
Charge To:	<del>)</del>	
	TYPE OF MATERIA	L Janes
Produced Water	☐ Drilling Fluids	☐ Completion Fluids
Tank Bottoms	Contaminated Soil	C-117 No.:
☐ Other Materials	BS&W Content:	
_	_	
Description:		☐ JETOUT ☐ CALLOUT
<u> </u>		
OLUME OF MATERIAL	DDLC	MDDC
OLUME OF MATERIAL	BBLS.	YARDS
AS A CONDITION TO SUNDANCE SE	RVICES, INC.'S ACCEPTANCE OF T	HE MATERIALS SHIPPED WITH THIS
JOB TICKET, OPERATOR/SHIPPER REPRESI		
		Y ACT OF 1976, AS AMENDED FROM TIME TO EQ., AND REGULATIONS RELATED THERETO,
		WATERS, AND OTHER WASTE ASSOCIATED
WITH THE EXPLORATION, DEVELOPMENT	FOR PRODUCTION OF CRUDE OIL	OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDAN	ICE SERVICES, INC.'S ACCEPTANCI	E OF THE MATERIALS SHIPPED WITH THIS JOB
		TERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY TR	RANSPORTER TO SUNDANCE SERV	ICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the	above Transporter loaded the	e material represented by this Transporter
Statement at the above described loca	ation, and that it was tendered	d by the above described shipper. This will
	were added to this load, and	l that the material was delivered without
incident.		
44000	11 /	
DRIVER: MANGO A	Ide Che	. 4
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FACILITY REPRESENTATIVE:		aurante de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya del la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la compan

		Ticket # 100120
Lease Operator/Shipper/Company	y: Salfy Dag	
Lease Name: \$/4\ De	0.91	
Transporter Company:	,	Time AM(PM)
Date: 10.20.08 Vehi	icle No	Driver No.
Charge To: Salty Dace		
	TYPE OF MATERIAL	June 3
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
Other Materials	☐ BS&W Content:	
Description:		☐ JETOUT ☐ CALLOUT
)LUME OF MATERIAL	BBLS. 17	YARDS
	COPP.	
AS A CONDITION TO SUNDANCE SER JOB TICKET, OPERATOR/SHIPPER REPRESE MATERIAL EXEMPT FROM THE RESOURCE TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEA BY VIRTUE OF THE EXEMPTION AFFORDEI WITH THE EXPLORATION, DEVELOPMENT	ENTS AND WARRANTS THAT THE WA E, CONSERVATION AND RECOVERY A LITH AND SAF. CODE 361.001 ET SEQ. D DRILLING FLUIDS, PRODUCED WA	STE MATERIAL SHIPPED HEREWITH IS CT OF 1976, AS AMENDED FROM TIME TO , AND REGULATIONS RELATED THERETO,
ļ	WARRANTS THAT ONLY THE MATER	F THE MATERIALS SHIPPED WITH THIS JOB RIAL DELIVERED BY OPERATOR/SHIPPER TO ES, INC.'S FACILITY FOR DISPOSAL.
Statement at the above described loca	ation, and that it was tendered by	naterial represented by this Transporter y the above described shipper. This will hat the material was delivered without
DRIVER: Mile fo	Lebe	
	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	
FACILITY REPRESENTATIVE:		and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(575) 394-2511

	Ticket # 100158
Lease Operator/Shipper/Compa	iny: Jalty Dos
Lease Name: Sa / L	003
Transporter Company:	Dawa Time 3:58 AM/PM
Date: 10-20-08 Vel	hicle No Driver No
Charge To:	sa Cia
	TYPE OF MATERIAL
	James
Produced Water	☐ Drilling Fluids ☐ Completion Fluids
Tank Bottoms	Contaminated Soil C-117 No.:
Other Materials	BS&W Content:
	_ JETOUT
Description:	CALLOUT
<u> </u>	
VOLUME OF MATERIAL	BBLS. //_ YARDS
* *	
JOB TICKET, OPERATOR/SHIPPER REPRES MATERIAL EXEMPT FROM THE RESOURO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HE BY VIRTUE OF THE EXEMPTION AFFORD	SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS SENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS CE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO EALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO DED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED NOT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENEM
TICKET, TRANSPORTER REPRESENTS AN	NCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS IND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TRANSPORTER TO SUNDANGE SERVICES, INC.'S FACILITY FOR DISPOSAL.
Statement at the above described lo	ne above Transporter loaded the material represented by this Transportation, and that it was tendered by the above described shipper. This is were added to this load, and that the material was delivered with
DRIVER:	2-/
DRIVER:	2-/

P.O. Box 1737 ★ Eunice, New Mexico \$8231 (575) 394-2511

100081 Ticket # Lease Operator/Shipper/Company: Lease Name: **Transporter Company:** Vehicle No. **Driver No.** Charge To: TYPE OF MATERIAL Imme S **Produced Water Drilling Fluids Completion Fluids** Tank Bottoms Contaminated Soil C-117 No.: Other Materials **BS&W Content:** ☐ JETOUT Description: ☐ CALLOUT **OLUME OF MATERIAL** BBLS. **YARDS** AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VÏRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

FACILITY REPRESENTATIVE

	- 1/ 0	Ticket # 100138
Lease Operator/Shipper/Comp	vany; Selfy Dog	
011	00	
Lease Name:	09	
Transporter Company:	avallia	Time SOO AMPM
Date: 10-20-68 V	ehicle No.	Driver No.
Date: 10 000 V	enicie No	Dilver No.
Charge To:	10S	
	TYPE OF MATERIAL	L James
Produced Water	Drilling Fluids	Completion Fluids
☐ Tank Bottoms	Contaminated Soil	C-117 No.:
Talik Bottonis	Contaminated Soil	C-117 No.:
Other Materials	BS&W Content:	
		C IFTOUT
Description:	<i>,</i> -	☐ JETOUT ☐ CALLOUT
Jan 11		
VOLUME OF MATERIAL	DDI C	YARDS
VOLUME OF MATERIAL	BBLS.	ARUS
AS-A CONDITION TO SUNDANCE	SERVICES, INC.'S ACCEPTANCE OF TH	IE MATERIALS SHIPPED WITH THIS
		ASTE MATERIAL SHIPPED HEREWITH IS
	-	ACT OF 1976, AS AMENDED FROM TIME TO Q., AND REGULATIONS RELATED THERETO,
		VATERS, AND OTHER WASTE ASSOCIATED
	· · · · · · · · · · · · · · · · · · ·	OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SLIND.	ANCE SERVICES INC 'S ACCEPTANCE	OF THE MATERIALS SHIPPED WITH THIS JOB
	•	ERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY		
THIS WILL CEPTIEV that t	the above Turner outer leaded the	and a similar and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar than the same and a similar th
Statement at the above described l	ne above Transporter todage the	material represented by this Transporter by the above described shipper. This will
certify that no additional materia	ds were added to this load, and	that the material was delivered without
incident.	is were duded to this toda, and	mai me maieriai was delivered wilhoui
		Po _{bol}
DRIVER:	Chavanie S	SK_
· Laure		
FACILITY REPRESENTATIVE:		
·	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th

P.O. Box 1737 ★ Eunice, New Mexico 88231

(575) 394-2511

	11	Ticket # 100139
Lease Operator/Shipper/Company:	: Salty Dag	
Lease Name: Salty Doc		
Transporter Company:	<u>れここ</u> Time	3:01_AMPM
Date: 10.20.08 Vehic	le No Drive	er No
Charge To: Ja / 44 Dog	2	
	TYPE OF MATERIAL	Jame 3
☐ Produced Water	☐ Drilling Fluids ☐	Completion Fluids
Tank Bottoms	Contaminated Soil	C-117 No.:
Other Materials	BS&W Content:	
Description:		☐ JETOUT ☐ CALLOUT
OLUME OF MATERIAL	BBLS. /Z YARD	OS .
JOB TICKET, OPERATOR/SHIPPER REPRESEN' MATERIAL EXEMPT FROM THE RESOURCE, O TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALT BY VIRTUE OF THE EXEMPTION AFFORDED WITH THE EXPLORATION, DEVELOPMENT O  ALSO AS A CONDITION TO SUNDANCE TICKET, TRANSPORTER REPRESENTS AND W TRANSPORTER IS NOW DELIVERED BY TRANSPORTER IS NOW DELIVERED BY TRANSPORTER.	CONSERVATION AND RECOVERY ACT OF TH AND SAF. CODE 361.001 ET SEQ., AND DRILLING FLUIDS, PRODUCED WATERS, OR PRODUCTION OF CRUDE OIL OR NATUE. SERVICES, INC.'S ACCEPTANCE OF THE VARRANTS THAT ONLY THE MATERIAL DINSPORTER TO SUNDANCE SERVICES, INC. BOVE Transporter loaded the material of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	ATERIAL SHIPPED HEREWITH IS 1976, AS AMENDED FROM TIME TO REGULATIONS RELATED THERETO, AND OTHER WASTE ASSOCIATED JURAL GAS OR GEOTHERMAL ENERGY. MATERIALS SHIPPED WITH THIS JOB DELIVERED BY OPERATOR/SHIPPER TO C.'S FACILITY FOR DISPOSAL.  al represented by this Transporter
certify that no additional materials we incident.		
DRIVER:		
FACILITY REPRESENTATIVE:		

	211 0	Ticket # 100141			
Lease Operator/Shipper/Company	: Salty 16:	77			
CH	7	)			
Lease Name:	25				
Transporter Company:	nga	Time			
Date: 10-20-08 Vehic	ele No. 10	Driver No.			
Date: Venic	Sie No	Driver No.			
Charge To:	?				
	TYPE OF MATERIA	AL Jours			
Produced Water	☐ Drilling Fluids	Completion Fluids			
Tank Bottoms	Contaminated Soi	I 🗌 C-117 No.:			
Other Materials	BS&W Content:				
		E IETOLIT			
Description:		☐ JETOUT ☐ CALLOUT			
<b>√OLUME OF MATERIAL</b>	BBLS.	2_ARDS			
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEAI BY VIRTUE OF THE EXEMPTION AFFORDED	NTS AND WARRANTS THAT THE CONSERVATION AND RECOVER TH AND SAF. CODE 361.001 ET S DIRILLING FLUIDS, PRODUCED	WASTE MATERIAL SHIPPED HEREWITH IS RY ACT OF 1976, AS AMENDED FROM TIME TO SEQ., AND REGULATIONS RELATED THERETO,			
	WARRANTS THAT ONLY THE MA	E OF THE MATERIALS SHIPPED WITH THIS JOB STERIAL DELIVERED BY OPERATOR/SHIPPER TO VICES, INC.'S FACILITY FOR DISPOSAL.			
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.					
1100-	Andrew Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the				
DRIVER:					
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FACILITY REPRESENTATIVE:		and a major operation of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the s			

Ticket # 100145
Lease Operator/Shipper/Company: Sa Am Dog
Lease Name: Solty Dog
615
Date: 10-20-08 Vehicle No Driver No
Charge To: De 170 Pg
TYPE OF MATERIAL Jame 3
☐ Produced Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms ☐ Contaminated Soil ☐ C-117 No.:
☐ Other Materials ☐ BS&W Content:
☐ JETOUT
Description: CALLOUT
OLUME OF MATERIAL BBLS. 12 YARDS
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS
JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS
MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO
BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENER
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS J
TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THE HOLD ON BELLVERED BY TRANSFORMER TO SUNDANCE SERVICES, INC. STACIETY FOR DISPOSAL.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transpo
Statement at the above described location, and that it was tendered by the above described shipper. This
certify that no additional materials were added to this load, and that the material was delivered with
incident.
DDIVED:
DRIVER: Me Colleged &
FACILITY REPRESENTATIVE:

		Ticket # 100144
Lease Operator/Shipper/Company	: Loly Dog	
Lease Name: 5 14 053		
Transporter Company:	Ha	Time 3-20 AM/PM)
	110.	Time And w
Date: 10.2000 Vehic	ele No	Driver No.
Charge To:		
	TYPE OF MATERIA	L James
☐ Produced Water	□ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	C-117 No.:
☐ Other Materials	BS&W Content:	
Description: 5		☐ JETOUT ☐ CALLOUT
VOLUME OF MATERIAL	BBLS. 12	YARDS
AS A CONDITION TO SUNDANCE SERV JOB TICKET, OPERATOR/SHIPPER REPRESEN		
		ACT OF 1976, AS AMENDED FROM TIME TO
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEAL BY VIRTUE OF THE EXEMPTION AFFORDED		Q., AND REGULATIONS RELATED THERETO,
		OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDANCE	E SERVICES. INC.'S ACCEPTANCE	OF THE MATERIALS SHIPPED WITH THIS JOB
TICKET, TRANSPORTER REPRESENTS AND V	VARRANTS THAT ONLY THE MAT	ERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY TRA	NSPORTER TO SUNDANCE SERVI	CES, INC.'S FACILITY FOR DISPOSAL.
		material represented by this Transporter
		by the above described shipper. This will
incident.	ere adaed to this load, and	that the material was delivered without
	//	
DRIVER: AUSTRALIA	W A	
FACILITY REPRESENTATIVE:		

		/ 11 A	Ticket # 100148
Lease Operator/Shipp	er/Company:	Selty Do	g
	7. 0.		f
Lease Name:	ty usg	•	
Transporter Company	: Wildea		Time AM/PM
Date: 10.20-08	Vehicle No.	23	Driver No.
Charge To:	vDag		
	TVD	E OF MATERIAL	
	ITP	E OF WATERIAL	James
☐ Produced Wate	er 🗌	Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms		Contaminated Soil	C-117 No.:
		oomaninated oon	
Other Materials	· -	BS&W Content:	
	-3		□ JETOUT
Description:	11		CALLOUT
LUME OF MATERIA	Ĺ	BBLS.	ARDS
AS A CONDITION TO SE	JNDANCE SERVICES, IN	C.'S ACCEPTANCE OF TH	E MATERIALS SHIPPED WITH THIS
			ASTE MATERIAL SHIPPED HEREWITH IS
			ACT OF 1976, AS AMENDED FROM TIME TO 2., AND REGULATIONS RELATED THERETO,
			ATERS, AND OTHER WASTE ASSOCIATED
			R NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION	TO SUNDANCE SERVICE	ES INC 'S ACCEPTANCE (	OF THE MATERIALS SHIPPED WITH THIS JOB
		,	RIAL DELIVERED BY OPERATOR/SHIPPER TO
			CES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTI	FY that the above Tr	ansporter loaded the i	naterial represented by this Transporter
			by the above described shipper. This will
			that the material was delivered without
incident.			
	1		
DRIVER: M	nen		
	1	1	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
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FACILITY REPRESENTATI	VE:au	(May)	0

	11 0	Ticket # IUUI41
Lease Operator/Shipper/Company	1: Jalty Nog	
Lease Name:	Dog	
Transporter Company: Wilde	<u>caf</u>	ime <u>7.24</u> AM/PM)
Date: 16-20-68 Vehic	cle No	Oriver No
Charge To: Sa / Ly Co	) aj	
	TYPE OF MATERIAL	James
Produced Water	Drilling Fluids	Completion Fluids
☐ Tank Bottoms	Contaminated Soil	C-117 No.:
Other Materials	BS&W Content:	
Description: So. /+		☐ JETOUT ☐ CALLOUT
VOLUME OF MATERIAL	BBLS.	ARDS
AS A CONDITION TO SUNDANCE SER JOB TICKET, OPERATOR/SHIPPER REPRESEI MATERIAL EXEMPT FROM THE RESOURCE, TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEAI BY VIRTUE OF THE EXEMPTION AFFORDED WITH THE EXPLORATION, DEVELOPMENT	NTS AND WARRANTS THAT THE WAS , CONSERVATION AND RECOVERY AC LTH AND SAF. CODE 361.001 ET SEQ., D DRILLING FLUIDS, PRODUCED WAT	TE MATERIAL SHIPPED HEREWITH IS CT OF 1976, AS AMENDED FROM TIME TO AND REGULATIONS RELATED THERETO,
	WARRANTS THAT ONLY THE MATERI	THE MATERIALS SHIPPED WITH THIS JOB IAL DELIVERED BY OPERATOR/SHIPPER TO S, INC.'S FACILITY FOR DISPOSAL.
Statement at the above described local	tion, and that it was tendered by	aterial represented by this Transporter the above described shipper. This will at the material was delivered without
DRIVER: DIL	Cerpa	
	10	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
FACILITY REPRESENTATIVE:		al de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de

Ticket # 100149
Lease Operator/Shipper/Company: Ja / + y Dog
Lease Name: So / ty Doeg
Transporter Company:TimeTime
Date: 10 20 08 Vehicle No Driver No
Charge To:
TYPE OF MATERIAL James
☐ Produced Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms ☐ Contaminated Soil ☐ C-117 No.:
☐ Other Materials ☐ BS&W Content:
Description:
LUME OF MATERIAL BBLS. / ARDS
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporte Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
DRIVER: Clebeth alla
FACILITY REPRESENTATIVE:

P.O. Box 1737 ★ Eunice, New Mexico 88231 (575) 394-2511

Ticket # 100150 Lease Operator/Shipper/Company: Lease Name: Time 3 3 4 AM(PM) **Transporter Company:** Driver No. Vehicle No. Charge To: TYPE OF MATERIAL omes **Completion Fluids Produced Water Drilling Fluids Contaminated Soil** C-117 No.: **Tank Bottoms BS&W Content: Other Materials** ☐ JETOUT □ CALLOUT Description: **VOLUME OF MATERIAL** BBLS. **YARDS** AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. FACILITY REPRESENTATIVE

	- // 0	Ticket # 100153
Lease Operator/Shipper/Comp	any: Salty Voc	7
Lease Name: Solfy C	)o	
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Transporter Company: <u>( ( ) / </u>	nacho	TimeAM/PM
Date: 10-20-08 v	ehicle No. Z 0	Driver No.
Charge To: Jo 174 Do	<del>)</del>	
	TYPE OF MATERIA	AL James
Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
Other Materials	BS&W Content:	
ng ¹¹		☐ <b>JETOUT</b>
Description:		☐ CALLOUT
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VOLUME OF MATERIAL	BBLS.	2 MRDS
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Lease N	lame: <u>A / †</u>	101		2.06
Transpo	orter Company:	6/12		_Time3:55_ AM/PM
Doto	10 2008	Vehicle No.	65	Driver No.
Date:	11	venicle No		Driver No.
Charge	To:	7 10G	1 1 (A	
		TYPI	OF MATERIA	L Tomes
	Produced Water		Drilling Fluids	Completion Fluids
	Tank Bottoms		Contaminated Soil	☐ C-117 No.:
	Other Materials		BS&W Content:	
	Description:	1+		☐ JETOUT ☐ CALLOUT
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/OLUME	OF MATERIAL		BBLS. 12	YARDS
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Lease Operat	or/Shipper/Com	pany:	altu	000	V		James
Lease Name:	Sn 041	James			0		
Transporter C	A	emini	\ <u></u>		Time _	125	AM/PM
Date: 10 6	0-CQ	Vehicle No. ₋	315		Driver N	10. <u>21</u> 5	
Charge To:	50241	doo					
		TYP	E OF MAT	ERIAL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
☐ Produ	uced Water		Drilling Fluid	ds		Completio	n Fluids
☐ Tank	Bottoms	9	Contaminate	ed Soil		C-117 No.:	:
Other	r Materials		BS&W Conte	ent:			
Desci	ription:	a 14				JETOUT CALLOUT	
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Statement at the	above described	location, and	l that it was te	ndered b	y the abo	ve describe	od shipper. This will s delivered without
DRIVER:	(10 CC	20d	>				
ACILITY REPRI	ESENTATIVE:/	N. 200	Silvad)(	Q )			

Ticket # 100168
Lease Operator/Shipper/Company:
Lease Name: Solid door
Transporter Company: Time 4:35 AMPM
Date: 10-20 08 Vehicle No. 212 Driver No. 313
Charge To: Salta disca
TYPE OF MATERIAL
☐ Produced Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms ☐ Contaminated Soil ☐ C-117 No.:
☐ Other Materials ☐ BS&W Content:
Description:
OLUME OF MATERIAL BBLS. ARDS
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOE TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporte Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
DRIVER:
FACILITY REPRESENTATIVE: NEW LOCAL CONTROL OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF

P.O. Box 1737 ★ Eunice, New Mexico 88231 (575) 394-2511

Lease Operator/Shipper/Company Transporter Company: Vehicle No. Driver No. TYPE OF MATERIAL **Drilling Fluids Completion Fluids Produced Water Contaminated Soil** C-117 No.: **Tank Bottoms** Other Materials **BS&W Content:** ☐ JETOUT Description: ☐ CALLOUT **VOLUME OF MATERIAL YARDS** BBLS. AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF, CODE 361,001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

**FACILITY REPRESENTATIVE:** 

	1	. / 47		Ticket #	100172
Lease Operator/Shipper/Compar	ny:	alty Ly	<u> </u>		James)
Lease Name: Salti (	joor		$\supseteq$		
Transporter Company:	imal	WETAL.	Time	1:55	_AM/PM
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A 1	noie No		Directi	10.	
Charge To:	**				
	TYPE	OF MATERIA	\L		
Produced Water		Drilling Fluids		Completic	on Fluids
☐ Tank Bottoms	9/	Contaminated Soil		C-117 No.	:
☐ Other Materials		BS&W Content:			,
Description:				JETOUT CALLOUT	
VOLUME OF MATERIAL		BBLS. /2	YARDS		***************************************
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AS A CONDITION TO SUNDANCE SE JOB TICKET, OPERATOR/SHIPPER REPRES	*				
MATERIAL EXEMPT FROM THE RESOURCE	,			-	
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEABY VIRTUE OF THE EXEMPTION AFFORDE				r.	
WITH THE EXPLORATION, DEVELOPMENT					
ALSO AS A CONDITION TO SUNDAN	ICE SERVICE	ES, INC.'S ACCEPTANC	E OF THE MA	TERIALS SH	IPPED WITH THIS JOB
TICKET, TRANSPORTER REPRESENTS AND TRANSPORTER IS NOW DELIVERED BY TE					
THIS WILL CERTIFY that the	ahove Tro	ansporter loaded the	e material s	renresented	by this Transporter
Statement at the above described loc	ation, and	that it was tendered	by the abo	ove describ	ed shipper. This will
certify that no additional materials					
incident.					
DRIVER:					
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1	.0.				
FACILITY REPRESENTATIVE:	7M	MORQ.			

P.O. Box 1737 ★ Eunice, New Mexico 88231

(575) 394-2511

Ticket # 100174
Lease Operator/Shipper/Company:
Lease Name: South diff
Transporter Company: Solon Quillos M. Time 5./ AM/PM
Date: 10-20 Of Vehicle No. 2 Driver No. 2
Charge To: Salty along
TYPE OF MATERIAL
☐ Produced Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms ☐ Contaminated Soil ☐ C-117 No.:
☐ Other Materials ☐ BS&W Content:
Description:
LUME OF MATERIAL BBLS. / ARDS
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENER  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JO
TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transportstatement at the above described location, and that it was tendered by the above described shipper. This vertify that no additional materials were added to this load, and that the material was delivered with incident.
DRIVER: JOS COURACIO
FACILITY REPRESENTATIVE: 1 FOR MODO
ACIENT THE RECEIVANTE.

		(N	Ticket #\ 1001/5
Lease Operator/Shipper/Co	mpany:	JOHN WELL	Hamus
Lease Name: <u>Culty</u>	(Iwa		
B	NTAL	0.000	Time 5.05 AM/PM
Transporter Company:			
Date: 10 20 04	Vehicle No	3	Driver No.
Charge To:	dog		
	ТҮРІ	OF MATERIA	<b>\L</b>
D. Control Water		D. 111.	O-molation Fluids
Produced Water		Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	7	Contaminated Soil	☐ C-117 No.:
Other Materials	* 6	BS&W Content:	
	_		
Description:	a 1.		☐ JETOUT ☐ CALLOUT
Description:	<u> </u>		- OALLOO!
(OLUME OF MATERIAL		/.1	
VOLUME OF MATERIAL		BBLS. / J	YARDS
AS A CONDITION TO SUNDA	NCE SERVICES. IN	C.'S ACCEPTANCE OF T	THE MATERIALS SHIPPED WITH THIS
			WASTE MATERIAL SHIPPED HEREWITH IS
			Y ACT OF 1976, AS AMENDED FROM TIME TO
TIME, 40 U.S.C. 6901, ET SEQ., THE 1	NM HEALTH AND	SAF. CODE 361.001 ET S	EQ., AND REGULATIONS RELATED THERETO,
			WATERS, AND OTHER WASTE ASSOCIATED
WITH THE EXPLORATION, DEVELO	PMENT OR PRODU	JCTION OF CRUDE OIL	OR NATURAL GAS OR GEOTHERMAL ENERG
ALSO AS A CONDITION TO SE	INDANCE SERVIC	ES INC 'S ACCEPTANC	E OF THE MATERIALS SHIPPED WITH THIS JOE
			TERIAL DELIVERED BY OPERATOR/SHIPPER TO
-			VICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CEPTIEV 4.	at the above Tu		a material manuscripted by this Thomson out
			e material represented by this Transported by the above described shipper. This wi
			l by the above described shipper. This will I that the material was delivered withou
incident.	eriais were aaa	ea to this toda, and	i mai me material was delivered wimo
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DRIVER: ///	ent ix	6	· · · · · · · · · · · · · · · · · · ·
	Name of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party	t	
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ACILITY REPRESENTATIVE	MITANO	0000	

	The state of the	Ticket # 1001//
Lease Operator/Shipper/Compa	any:alto_Lis	2) Jam
Lease Name: Soday (	100-	
Transporter Company: 🕠	ideat Tax	Time _5.20_AM/PM
Date: 10-30-09 Ve	ehicle No. <u>93</u>	Driver No. $\frac{\theta^3}{}$
Charge To: Solly Old	202	
	TYPE OF MATERIA	AL
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	I ☐ C-117 No.:
Other Materials	BS&W Content:	
Description:	+	☐ JETOUT ☐ CALLOUT
LUME OF MATERIAL	BBLS.	ARDS
IOB TICKET, OPERATOR/SHIPPER REPREMATERIAL EXEMPT FROM THE RESOUR IME, 40 U.S.C. 6901, ET SEQ., THE NM H. BY VIRTUE OF THE EXEMPTION AFFORI WITH THE EXPLORATION, DEVELOPMENT ALSO AS A CONDITION TO SUNDATICKET, TRANSPORTER REPRESENTS AND TRANSPORTER IS NOW DELIVERED BY THIS WILL CERTIFY that the Statement at the above described lo	ESENTS AND WARRANTS THAT THE ICE, CONSERVATION AND RECOVER EALTH AND SAF. CODE 361.001 ET SO DED DRILLING FLUIDS, PRODUCED NT OR PRODUCTION OF CRUDE OIL NICE SERVICES, INC.'S ACCEPTANCE NO WARRANTS THAT ONLY THE MATRANSPORTER TO SUNDANCE SERVICE Above Transporter loaded the ocation, and that it was tendered.	THE MATERIALS SHIPPED WITH THIS WASTE MATERIAL SHIPPED HEREWITH IS RY ACT OF 1976, AS AMENDED FROM TIME TO SEQ., AND REGULATIONS RELATED THERETO, WATERS, AND OTHER WASTE ASSOCIATED L OR NATURAL GAS OR GEOTHERMAL ENERGY. THE MATERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY OPERATOR/SHIPPER TO WICES, INC.'S FACILITY FOR DISPOSAL. THE material represented by this Transporter and by the above described shipper. This will and that the material was delivered without
DRIVER: Mysyl	9 01 000	

P.O. Box 1737 ★ Eunice, New Mexico 88231

(575) 394-2511

,		V	Ticket # 1001/8
Lease Operator/Shipper/Co	empany:	Tronce	- Jamel
Lease Name: Soft	doca	0	
Transporter Company:	Macol 14	Time <u></u>	:20_AN/PM
Date: 10-20-08	Vehicle No	Driver N	10
Charge To:	ano-		
U	TYPE OF MA	TERIAL	
☐ Produced Water	☐ Drilling FI	uids	Completion Fluids
☐ Tank Bottoms	☐ Contamin	ated Soil	C-117 No.:
Other Materials	☐ BS&W Co	ntent:	
Description:	wit	_	JETOUT CALLOUT
VOLUME OF MATERIAL	BBLS.	YARDS	
JOB TICKET, OPERATOR/SHIPPER R MATERIAL EXEMPT FROM THE RE TIME, 40 U.S.C. 6901, ET SEQ., THE I BY VIRTUE OF THE EXEMPTION AI WITH THE EXPLORATION, DEVELO ALSO AS A CONDITION TO SI TICKET, TRANSPORTER REPRESEN	SOURCE, CONSERVATION AND NM HEALTH AND SAF. CODE 36 FORDED DRILLING FLUIDS, PROPMENT OR PRODUCTION OF CUNDANCE SERVICES, INC.'S ACTS AND WARRANTS THAT ONL	THAT THE WASTE MATE RECOVERY ACT OF 197 51.001 ET SEQ., AND REC RODUCED WATERS, AND CRUDE OIL OR NATURA CCEPTANCE OF THE MA LY THE MATERIAL DELI	ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED L GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO
Statement at the above describ	nat the above Transporter le ed location, and that it was	oaded the material is stendered by the abo	represented by this Transporter ove described shipper. This will naterial was delivered without
DRIVER: JOSU	Llyva		
FACILITY REPRESENTATIVE:	/V (UDUNU)	U. /	

DRIVER: Alberta alla		Marie a	1	Ticket # 100181
Transporter Company:	Lease Operator/Shipper/Compar	ry:	T DUST	James
Transporter Company:	Lance Name: STA CHA A		$\mathbf{O}$	Ú
Charge To:  TYPE OF MATERIAL    Produced Water		no Tay		. 2 () . (6.)
TYPE OF MATERIAL    Produced Water	Transporter Company:	111. pub.	Time	S. S.O. ANT/PM
TYPE OF MATERIAL    Produced Water	Date: 10 25 0 8 Veh	icle No. 04	Driver I	No. 04/
TYPE OF MATERIAL    Produced Water	Cart A	V-0		
Produced Water Drilling Fluids Completion Fluids Tank Bottoms Contaminated Soil C-117 No.:    Other Materials   BS&W Content:	Charge To:			
Tank Bottoms Contaminated Soil C-117 No.:    Other Materials   BS&W Content:		TYPE OF MA	TERIAL	
Description:    Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Description:   Descr	☐ Produced Water	☐ Drilling Flu	ids	Completion Fluids
Description:    JETOUT   CALLOUT	☐ Tank Bottoms	☐ Contamina	ted Soil	C-117 No.:
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO ITIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF, CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will scritify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:	Other Materials	☐ BS&W Con	tent:	· · · · · · · · · · · · · · · · · · ·
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO ITIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF, CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will scritify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:			П	JETOUT
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AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will exertify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:  DRIVER:				
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described without incident.	/OLUME OF MATERIAL	BBLS.	/ A YARDS	
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described without incident.				
MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO FIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB FICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.				
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ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:	TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEA	ALTH AND SAF. CODE 361	.001 ET SEQ., AND RE	GULATIONS RELATED THERETO,
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:				
TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:	WITH THE EXPLORATION, DEVELOPMEN	I OR PRODUCTION OF CR	UDE OIL OR NATURA	L GAS OR GEOTHERMAL ENERGY.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:	ALSO AS A CONDITION TO SUNDAN	ICE SERVICES, INC.'S ACC	EPTANCE OF THE MA	TERIALS SHIPPED WITH THIS JOB
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:				
Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:	TRANSPORTER IS NOW DELIVERED BY TR	RANSPORTER TO SUNDA	ICE SERVICES, INC.'S	FACILITY FOR DISPOSAL.
Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:	THIS WILL CERTIFY that the	above Transporter lo	aded the material i	represented by this Transporter
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DRIVER: Alberta alla				
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Al foring	DRIVED.			
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FACILITY REPRESENTATIVE: 1 EDDINGO Z	A 4	0		
	FACILITY REPRESENTATIVE:	TODIMORO	/	

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Lease O	perator/Shipper/Con	npany:	DILLO		James
Lease N	lame: SOLAL	door		-0	Name of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state
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Charge	To:				
		TYP	E OF MATE	RIAL	
	Produced Water		Drilling Fluids		Completion Fluids
	Tank Bottoms	LX/	Contaminated	Soil 🗆	C-117 No.:
	Tank Bottoms		Contaminated	30II	0-117 No
	Other Materials		BS&W Conten	t:	
	4.			_	JETOUT
	Description:				CALLOUT
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TICKET, TR	ANSPORTER REPRESENTS	AND WARRAN	TS THAT ONLY TH	E MATERIAL DELI	ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL.
Statement	at the above described	l location, and	d that it was tend	dered by the abo	represented by this Transporte ove described shipper. This wit material was delivered withou
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DRIVER:		-			
FACILITY	REPRESENTATIVE:	1130	O'MON		

		V \		Ticket # 100188
Lease Operator/Shipper/C	ompany:	selta to	01	- James
Lease Name: Salti	· door		4	
ن. ا	7 11 1	(A) (A)	Time &	uc /L
Transporter Company:	WH W	W. C.	Time <u></u>	AMPM
Date: 10 00 08	Vehicle No.	61	Driver No	o. DL
0 11	dono			
Charge To:	) and			
	4YPI	E OF MATERIA	<b>\L</b>	
Produced Water		Drilling Fluids		Completion Fluids
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☐ Other Materials		BS&W Content:		
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COLUME OF MATERIAL		DDIC (0)	WDDC	
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AS A CONDITION TO SUNDA	ANCE SERVICES, IN	IC.'S ACCEPTANCE OF T	THE MATERIAL	S SHIPPED WITH THIS
JOB TICKET, OPERATOR/SHIPPER				
MATERIAL EXEMPT FROM THE R TIME, 40 U.S.C. 6901, ET SEQ., THE				
BY VIRTUE OF THE EXEMPTION A				
WITH THE EXPLORATION, DEVEL				
ALSO AS A CONDITION TO	SUNDANCE SERVIC	ES, INC.'S ACCEPTANC	E OF THE MAT	ERIALS SHIPPED WITH THIS JOB
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Statement at the above descri				
certify that no additional ma	nterials were add	ded to this load, and	d that the mo	aterial was delivered without
incident.				
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DRIVER: JAHUAY	1 0	) -/		
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E4 0// ITV DEDCE	Aldan	1.10000		
FACILITY REPRESENTATIVE:	11.60	VIULL,		

		Ticket # 100186
Lease Operator/Shipper/Company:	Satu Dock	James
Salt do	. , ()	· · · · · · · · · · · · · · · · · · ·
Lease Name: South and	4	
Transporter Company:	116.	_Time E. 4 AM/PM
Date: 10 20 - O Vehicle No	· /0/	Driver No.
Date.		511101 110. <u></u>
Charge To:		
TY	E OF MATERIA	L
□ Bradward Water □	Drilling Elvido	☐ Completion Fluids
Produced Water	Drilling Fluids	Completion Fluids
☐ Tank Bottoms ☐	Contaminated Soil	C-117 No.:
☐ Other Materials ☐	BS&W Content:	
Conter Materials	BSaw Content.	
		☐ JETOUT
Description:		☐ CALLOUT
OLUME OF MATERIAL	BBLS. /A	YARDS
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AS A CONDITION TO SUNDANCE SERVICES, JOB TICKET, OPERATOR/SHIPPER REPRESENTS AN		
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FACILITY REPRESENTATIVE:	DiMORG	

					Ticket # 100191
Lease	Operator/Shipper/C	company:	alta I Do	$\sqrt{}$	James
	Name:	1001		0	V
		3 0 0			.60
Transp	orter Company: 🚊	so GILL	2 M	_Time	AMIPM
Date:_	10.20-108	Vehicle No	02	Driver No	n2
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Charge	To:	10 010 00			
		TYPI	OF MATERIA	L	
	Produced Water		Drilling Fluids		Completion Fluids
	Tank Pottomo		Contominated Sail		C 117 No.
<u></u>	Tank Bottoms	<u> </u>	Contaminated Soil		C-117 No.:
	Other Materials		BS&W Content:		
					FTOUT
	Description:	, t			ETOUT ALLOUT
		M. M. 3			
/OL LIM	C OF MATERIAL		2010 17	MADDE	
OLUM	E OF MATERIAL		BBLS. / 🙏	ARDS	
AS A	A CONDITION TO SUNDA	ANCE SERVICES, IN	C.'S ACCEPTANCE OF TH	HE MATERIAL	S SHIPPED WITH THIS
OB TICKI	ET, OPERATOR/SHIPPER	REPRESENTS AND	WARRANTS THAT THE V	VASTE MATER	IAL SHIPPED HEREWITH IS
					, AS AMENDED FROM TIME TO
					JLATIONS RELATED THERETO, OTHER WASTE ASSOCIATED
					GAS OR GEOTHERMAL ENERGY.
A I C	O AS A CONDITION TO	NAME OF STREET	EG DIGUG A COEDTANOE	OF THE MAT	EDIAL COMPRED WITH THE IOD
			•		ERIALS SHIPPED WITH THIS JOB ERED BY OPERATOR/SHIPPER TO
					ACILITY FOR DISPOSAL.
mr.r	IG WILL CERMINA				
					presented by this Transporter
					e described shipper. This will
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ACILITY	REPRESENTATIVE:	_/V. 7)	DITIULA		

	,			Ticket # 100193
Lease Operator/Shipper/Comp	pany: 🚫	CON SEL		-James
Lease Name: Salty d	60.02	"hander and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the		V
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Transporter Company:	WWh <i>yg</i>	C /ch.	_Time/	D. U. AMPM
Date: 10-20-08 v	ehicle No	<u>Do</u>	Driver I	vo. <u>0 0</u>
Charge To: Solty	X000-			
	TYPE	OF MATERIAL		
Produced Water		Drilling Fluids		Completion Fluids
Tank Bottoms	Ø.	Contaminated Soil		C-117 No.:
Other Materials		BS&W Content:		
Description:	1			JETOUT CALLOUT
OLUME OF MATERIAL		PLC (1/1)	MDDC	
OLUME OF MATERIAL	B	BLS. / d	ARDS	
AS A CONDITION TO SUNDANCE JOB TICKET, OPERATOR/SHIPPER REPR MATERIAL EXEMPT FROM THE RESOU TIME, 40 U.S.C. 6901, ET SEQ., THE NM I BY VIRTUE OF THE EXEMPTION AFFOR WITH THE EXPLORATION, DEVELOPMI ALSO AS A CONDITION TO SUND TICKET, TRANSPORTER REPRESENTS A TRANSPORTER IS NOW DELIVERED BY	ESENTS AND WARCE, CONSERVAHEALTH AND SARDED DRILLING ENT OR PRODUCTANCE SERVICES AND WARRANTS	ARRANTS THAT THE W. TION AND RECOVERY F. CODE 361.001 ET SEC FLUIDS, PRODUCED W TION OF CRUDE OIL O  , INC.'S ACCEPTANCE THAT ONLY THE MATE	ASTE MATE ACT OF 197 Q., AND REC ATERS, AND R NATURA OF THE MA ERIAL DELI	ERIAL SHIPPED HEREWITH IS 6, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED L GAS OR GEOTHERMAL ENERGY. TERIALS SHIPPED WITH THIS JOB VERED BY OPERATOR/SHIPPER TO
THIS WILL CERTIFY that the above described lesertify that no additional material ncident.	ocation, and t	hat it was tendered i	by the abo	
DRIVER: Chy A	eryo_			
FACILITY REPRESENTATIVE:	11. Isn	210°01		

P.O. Box 1737 ★ Eunice, New Mexico 88231

(575) 394-2511

	· .	and morning.			Ticket # 100192
Lease O	perator/Shipper/Compa	any:	Hy LOG		James_
Lease N	ame: Soulta	dian		<u> </u>	
	rter Company:	DYNY	\	_Time(	DO DAMPM
Date: /	)- <u> </u>	hicle No	332	Driver No	o332
Charge '	To: Scilter d	0,00 <u> </u>			
		TYPE (	OF MATERIA	L	
	Produced Water	, <u>D</u>	rilling Fluids		Completion Fluids
	Tank Bottoms	□ c	ontaminated Soil		C-117 No.:
	Other Materials	<u></u> В	S&W Content:		
	Description:	A			ETOUT ALLOUT
VOLUME	OF MATERIAL	ВВ	ils. /ð	YARDS	
JOB TICKET MATERIAL TIME, 40 U. BY VIRTUE	S.C. 6901, ET SEQ., THE NM H OF THE EXEMPTION AFFORI	SENTS AND WAR CE, CONSERVAT EALTH AND SAF DED DRILLING F	RRANTS THAT THE V ION AND RECOVERY . CODE 361.001 ET SE LUIDS, PRODUCED V	VASTE MATER 7 ACT OF 1976, Q., AND REGU VATERS, AND	LIAL SHIPPED HEREWITH IS , AS AMENDED FROM TIME TO JLATIONS RELATED THERETO,
TICKET, TR		ND WARRANTS T	HAT ONLY THE MAT	ERIAL DELIV	ERIALS SHIPPED WITH THIS JOB ERED BY OPERATOR/SHIPPER TO ACILITY FOR DISPOSAL.
Statement	at the above described lo	ecation, and the	at it was tendered	by the abov	presented by this Transporter e described shipper. This wili aterial was delivered without
DRIVER: _	mike	Sist	1/2		
FACILITY I	REPRESENTATIVE:	ESPUS	1702C1		

hope-jacker		, and a		Ticket # 10012	5
Lease (	Operator/Shipper/Comp	pany:	20101 Sal	4 NOG	
	Name: 6 Adr 1	Down			
Lease I				7 7 0 0	
Transp	orter Company: 🚄 🖊	45_		Time <u>2.20</u> AM/PM)	
Date:	10.00.08	Vehicle No.	41877	Driver No.	
Date				Diver ite.	
Charge	To:	<u> </u>	7 109		
		TYP	E OF MATERIAL	· James	****
	Produced Water		Drilling Fluids	Completion Fluids	
	Tank Bottoms	9	Contaminated Soil	☐ C-117 No.:	
	Other Materials		BS&W Content:		
				JETOUT	
	Description:			☐ CALLOUT	
VOLUM!	E OF MATERIAL		BBLS.	YARDS	
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JOB TICKE MATERIAI FIME, 40 U BY VIRTU WITH THE ALS	ET, OPERATOR/SHIPPER REPR L EXEMPT FROM THE RESOU J.S.C. 6901, ET SEQ., THE NM : E OF THE EXEMPTION AFFOR EXPLORATION, DEVELOPMI O AS A CONDITION TO SUND	RESENTS AND JRCE, CONSER HEALTH AND RDED DRILLIN ENT OR PROD	WARRANTS THAT THE WAVATION AND RECOVERY AS SAF. CODE 361.001 ET SEQUENTED WATER OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OF CRUDE OIL OIL OIL OIL OIL OIL OIL OIL OIL OIL	E MATERIALS SHIPPED WITH THIS ASTE MATERIAL SHIPPED HEREWITH I ACT OF 1976, AS AMENDED FROM TIM I., AND REGULATIONS RELATED THER ATERS, AND OTHER WASTE ASSOCIAT R NATURAL GAS OR GEOTHERMAL E DEF THE MATERIALS SHIPPED WITH THE	E TO ETO, ED NERGY.
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Statemen	t at the above described i	location, and	l that it was tendered b	naterial represented by this Tran by the above described shipper. The hat the material was delivered v	his will
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ORIVER:	bur Do les	29			
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e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	Ticket # 100124		
Lease Operator/Shipper/Company:	Salty Noc		
Lease Name:	61		
Transporter Company:	TimeTime		
Date: 10-20-5 Vehic	le No Driver No		
Charge To: Salty Doc	2		
	TYPE OF MATERIAL		
Produced Water	☐ Drilling Fluids ☐ Completion Fluids		
☐ Tank Bottoms	Contaminated Soil C-117 No.:		
Other Materials	BS&W Content:		
Description:	☐ JETOUT ☐ CALLOUT		
MOLUME OF MATERIAL	BBLS. / NARDS		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.			
TICKET, TRANSPORTER REPRESENTS AND W	SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO ISPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.		
Statement at the above described locati	oove Transporter loaded the material represented by this Transporter on, and that it was tendered by the above described shipper. This will ere added to this load, and that the material was delivered without		
DRIVER: +10(70 (6)	boss		
FACILITY REPRESENTATIVE:			

÷-15;***			June 1	Ticket # 100123
Lease Operator/Sh	nipper/Company:	2/4/	100	
Lease Name:	2/4. Dec			
				0.11. 0
Transporter Comp	any: <u>(Feate</u>	<u> </u>	Time	2:10 AM/EM
Date: 10-20-0	<u> </u>	No. 12 2	Driver	No
Charge To:	1 14 m	تيسمر فا		
Charge To:		<del>``</del>		
	T	YPE OF MATE	RIAL	Jane 5
Produced	Water	Drilling Fluids		Completion Fluids
☐ Tank Botto	oms	Contaminated	l Soil	C-117 No.:
Other Mate	erials [	BS&W Conter	nt:	
Description	n: 57 4			JETOUT CALLOUT
		10-5		
VOLUME OF MATE	D		(2)	
MOLUME OF MATE	KIAL	BBLS.	1/2 ARDS	
AS A CONDITION	TO SUNDANCE SERVICE	S. INC 'S ACCEPTANCI	E OF THE MATERIA	ALS SHIPPED WITH THIS
				ERIAL SHIPPED HEREWITH IS
	·			76, AS AMENDED FROM TIME TO
			-	GULATIONS RELATED THERETO,
				ID OTHER WASTE ASSOCIATED AL GAS OR GEOTHERMAL ENERGY.
William Em Loidillo	II, DE VELOI MEITI OKT	RODUCTION OF CRUD	L OIL ON WHICH	LE GAS ON GEOTHERWILE ENERGY.
		·		ATERIALS SHIPPED WITH THIS JOB
				IVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW I	DELIVERED BY TRANSP	ORTER TO SUNDANCE	E SERVICES, INC.'S	FACILITY FOR DISPOSAL.
THIS WILL CE	RTIFY that the above	e Transporter loade	ed the material	represented by this Transporter
				ove described shipper. This will
				material was delivered without
ncident.			,	
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		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	The state of the company of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the	and an overland to appropriate the secondary after the state and add secondary comments. The secondary of the
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ACILITY REPRESEN	TATIVE:	Server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server server se	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	

No.		Ticket # 100121	
Lease Operator/Shipper/Company:	Je/+17 flog		
Lease Name: Solty Da	9		
Transporter Company:	N7a	Time AM/PM	
Date: 10 10-58 Vehicle	e No <i>0</i>	Driver No.	
Charge To: Style Dog			
	TYPE OF MATERIAL	Jamas	
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids	
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:	
☐ Other Materials	☐ BS&W Content:		
Description:		☐ JETOUT ☐ CALLOUT	
LUME OF MATERIAL	BBLS / 2	YARDS	
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.			
DRIVER: 12 (2) DRAGO			
FACILITY REPRESENTATIVE:		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	

Lease Name: Salty Dog			
Lease Name: Salty Doe			
Ecaco Italio			
Transporter Company:TimeTimeTime	M/PM		
Date: 1020.08 Vehicle No. 09 Driver No.			
Charge To: Salty Ooci			
TYPE OF MATERIAL James			
☐ Produced Water ☐ Drilling Fluids ☐ Completion	Fluids		
☐ Tank Bottoms ☐ Contaminated Soil ☐ C-117 No.:			
☐ Other Materials ☐ BS&W Content:			
☐ JETOUT ☐ CALLOUT			
OLUME OF MATERIAL BBLS. Z YARDS			
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.			
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPI TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPER TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR I	RATOR/SHIPPER TO		
THIS WILL CERTIFY that the above Transporter loaded the material represented by Statement at the above described location, and that it was tendered by the above described certify that no additional materials were added to this load, and that the material was a incident.	shipper. This will		
DRIVER: Allerth allo			
FACILITY REPRESENTATIVE:			

िरेश्व <b>अ</b>	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Ticket # 100030	
Lease Operator/Shipper/Company:	Jelty 1bg		
Lease Name:	3		
Transporter Company:	h2a	Time	
Date: 102008 Vehic	le No <i>()</i>	Driver No.	
Charge To: 2/ty Dog			
	TYPE OF MATERIAL	Jone S	
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids	
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:	
Other Materials	BS&W Content:		
Description:		☐ JETOUT ☐ CALLOUT	
LUME OF MATERIAL	BBLS. / 2	YARDS	
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will			
certify that no additional materials were added to this load, and that the material was delivered without incident.			
DRIVER: Chio Sengo			
FACILITY REPRESENTATIVE:			

Mosel*	< 11 - D	Ticket # 100033	
Lease Operator/Shipper/Compa	ny: 12/11/6	2,	
Lease Name: Salty	ba		
Transporter Company:	I Dowg	Time 8:06 AM/PM	
10.00.08			
Date: Vel	nicle No	Driver No.	
Charge To:	10 9		
,	TYPE OF MATERIA	L James	
Produced Water	Drilling Fluids	☐ Completion Fluids	
Tank Bottoms	Contaminated Soil	C-117 No.:	
Other Materials	BS&W Content:		
Description:	4	☐ JETOUT	
LUME OF MATERIAL	BBLS. 12	ARDS	
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.			
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.			
Statement at the above described lo	cation, and that it was tendered	material represented by this Transporter by the above described shipper. This will that the material was delivered without	
DRIVER: 170-1			
FACILITY REDRESENTATIVE:	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		

/		Ticket # 100035
Lease Operator/Shipper/Company	: Je/ty Nos	7
Lacas Names S / La. Oa	· · · · /	
Lease Name:	7	Time S AM/PM
Transporter Company:	- James	Time AlyPivi
Date: 10.20.0% Vehic	cle No	Driver No.
7/1	0-0	
Charge To:	209	
	TYPE OF MATERIAL	James
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
☐ Other Materials	☐ BS&W Content:	
Description:		☐ JETOUT ☐ CALLOUT
Ja / T		
	2210	MARK
VOLUME OF MATERIAL	BBLS.	YARDS
AS A CONDITION TO SUNDANCE SER	VICES, INC.'S ACCEPTANCE OF THE	MATERIALS SHIPPED WITH THIS
JOB TICKET, OPERATOR/SHIPPER REPRESEI		
MATERIAL EXEMPT FROM THE RESOURCE, TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEAI		
BY VIRTUE OF THE EXEMPTION AFFORDED	D DRILLING FLUIDS, PRODUCED WA	ATERS, AND OTHER WASTE ASSOCIATED
WITH THE EXPLORATION, DEVELOPMENT	OR PRODUCTION OF CRUDE OIL OF	R NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDANC	E SERVICES, INC.'S ACCEPTANCE C	OF THE MATERIALS SHIPPED WITH THIS JOB
		RIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY TRA	ANSPORTER TO SUNDANCE SERVIC	ES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the	above Transporter loaded the r	naterial represented by this Transporter
		by the above described shipper. This will
	vere added to this load, and t	hat the material was delivered without
incident.		
	1	
DRIVER: ( legalith).	Longalez	
U	J 0	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
SA ON ITY DEDDESCRIPTION		
FACILITY REPRESENTATIVE:	the management of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

seed"		Ticket # 100036	
Lease Operator/Shipper/Company	1: Lety log		
Lease Name: Sa 14 Do	99		
Transporter Company:	) e <del>L                                   </del>	Time 8:/6 AM/PM	
10.000	A. N. A.	Driver No.	
$\int f(x) dx$	cle No	Differ No.	
Charge To:	<u> </u>		
	TYPE OF MATERIA	L James	
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids	
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:	
☐ Other Materials	BS&W Content:		
Description:		☐ JETOUT ☐ CALLOUT	
OLUME OF MATERIAL	BBLS. /2	ARDS	
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.			
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DRIVER: MANICO Ala	terche		
•	June Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the C		
FACILITY REPRESENTATIVE:			

atecus ^{is}		Ticket # 10038	
Lease Operator/Shipper/Compan	y: Jaty Nog		
Lease Name:	lo (		
Transporter Company:	in	Time X 25 AMPPM	
Date: 10-20-08 Veh	icle No. <u> 5/5</u>	Driver No.	
Charge To:	29-		
	TYPE OF MATERIAL	- Jane S. 3	
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids	
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:	
☐ Other Materials	B\$&W Content:		
Description:		☐ JETOUT ☐ CALLOUT	
LUME OF MATERIAL	DDI C	YRDS	
LOWE OF WATERIAL	BBLS.	ARDS	
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO			
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:			
FACILITY REPRESENTATIVE:			
ACILITY REFRESENTATIVE:	Carried State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of t		

P.O. Box 1737 ★ Eunice, New Mexico 88231

(575) 394-2511

	Ticket # 100199		
Lease Operator/Shipper/Company:	south toll some		
Lease Name: Silla 1009			
	- 10:15		
Transporter Company:	Time QAM/PM		
Date: 10.20-00 Vehicle No	315 Driver No315		
So Plu dan			
Charge To:			
TYF	PE OF MATERIAL		
☐ Produced Water ☐	Drilling Fluids Completion Fluids		
☐ Tank Bottoms ☐	Contaminated Soil		
Other Materials	BS&W Content:		
	☐ JETOUT		
Description:	CALLOUT		
)(A)			
OLUME OF MATERIAL	BBLS. /2 YARDS		
AS A CONDITION TO SUNDANCE SERVICES,	INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS ID WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS		
MATERIAL EXEMPT FROM THE RESOURCE, CONSI	ERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO		
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AN	ID SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, LING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED		
WITH THE EXPLORATION, DEVELOPMENT OR PRO	DUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.		
ALSO AS A CONDITION TO SUNDANCE SERV	VICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB		
TICKET, TRANSPORTER REPRESENTS AND WARRA	ANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO		
TRANSPORTER IS NOW DELIVERED BY TRANSPOR	RTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.		
THIS WILL CERTIFY that the above	Transporter loaded the material represented by this Transporter		
Statement at the above described location, a	and that it was tendered by the above described shipper. This will		
certify that no additional materials were a incident.	dded to this load, and that the material was delivered without		
,			
DRIVER: 40(10 60805			
1/6.	Ois A.		
FACILITY REPRESENTATIVE: _/_/ ()	00100		

	1/			Ticket # 100200
Lease Operator/Shipper/Company:		Sally Doc	1	- James
Lease Name: Salka dou	<u> </u>			
Transporter Company:	3/		_Time(	(0115_AM/PM)
Date: 1/0-0/1-06 Valid	ia Nia	219	Driver N	No. 318
	ie No	518	Dilvei	10.
Charge To:	<u> </u>			
	TYP	E OF MATERIAI	L	
☐ Produced Water		Drilling Fluids		Completion Fluids
☐ Tank Bottoms		Contaminated Soil		C-117 No.:
Other Materials		BS&W Content:		
				JETOUT
Description:				CALLOUT
		7.0		
VOLUME OF MATERIAL		BBLS. 12	YARDS	
AS A CONDITION TO SUNDANCE SERV				
JOB TICKET, OPERATOR/SHIPPER REPRESENT				
MATERIAL EXEMPT FROM THE RESOURCE, O TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALT				
BY VIRTUE OF THE EXEMPTION AFFORDED				
WITH THE EXPLORATION, DEVELOPMENT O				
ALSO AS A CONDITION TO SUNDANCE				
TICKET, TRANSPORTER REPRESENTS AND W TRANSPORTER IS NOW DELIVERED BY TRAN				
THIS WILL CERTIFY that the al	hove Ti	ransporter loaded the	material	represented by this Transporter
Statement at the above described locati				
certify that no additional materials we				
incident.				· · · · · · · · · · · · · · · · · · ·
011				and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th
DRIVER:	·			
FACILITY REPRESENTATIVE:	Inn	imozo.		

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(575) 394-2511

Ticket # 100207
Lease Operator/Shipper/Company:
Lease Name: Soldy duy
Transporter Company: Domingues Wk. Time 6:44 AM/PM
Date: 10 30 08 Vehicle No
Charge To:
TYPE OF MATERIAL
☐ Produced Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms ☐ Contaminated Soil ☐ C-117 No.:
☐ Other Materials ☐ BS&W Content:
Description:
<b>DLUME OF MATERIAL</b> BBLS. / ARDS
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
FACILITY REPRESENTATIVE: A CAROLORO

P.O. Box 1737 ★ Eunice, New Mexico 88231

(575) 394-2511

er gyir	•	politicas; s			Ticket # 100162
Lease Operat	or/Shipper/Company		of Ullo	2	James
Lease Name:	South do	λ,	,		
Transporter C	Company: Zia	,		_Time	4:15_AM(PM)
Date: / () - /	<u> 20 - 09 Vehic</u>	le No	544	Driver I	No. <u> </u>
Charge To:	Salty o	000	<del>\</del>		
	0	TYPE	OF MATERIA	L	
☐ Prod	uced Water		Drilling Fluids		Completion Fluids
☐ Tank	Bottoms	Ø	Contaminated Soil		C-117 No.:
☐ Other	r Materials		BS&W Content:		
Desc	ription:				JETOUT CALLOUT
)LUME OF N	MATERIAL		BBLS.	YARDS	
JOB TICKET, OPER MATERIAL EXEMI TIME, 40 U.S.C. 690 BY VIRTUE OF TH WITH THE EXPLOR  ALSO AS A C TICKET, TRANSPO TRANSPORTER IS  THIS WILL Statement at the	PT FROM THE RESOURCE, 01, ET SEQ., THE NM HEAL' E EXEMPTION AFFORDED RATION, DEVELOPMENT CONDITION TO SUNDANCE ORTER REPRESENTS AND WAND DELIVERED BY TRANCE ABOVE described locate to the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t	TS AND TO CONSERVING PRODUCE SERVICE VARRANT NESPORTE	WARRANTS THAT THE WARTION AND RECOVERY SAF. CODE 361.001 ET SE G FLUIDS, PRODUCED WUCTION OF CRUDE OIL CES, INC.'S ACCEPTANCE IS THAT ONLY THE MATTER TO SUNDANCE SERVICE Ansporter loaded the latit was tendered	ASTE MATI ACT OF 19' Q., AND RE VATERS, AN OR NATURA OF THE MA ERIAL DELI CES, INC.'S  material is by the abo	ALS SHIPPED WITH THIS ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED L GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB EVERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL.  Trepresented by this Transporter ove described shipper. This will material was delivered without
inciaeni.					
DRIVER:	Hang Va		so of a		
FACILITY REPR	ESENIALIVE:	4244	1147h		

		Ticket # 100161
Lease Operator/Shipper/Compa	iny: Salty Dog	James
0 01. 1	Fa. 0	
Lease Name: Da V tu	T T	13:35
Transporter Company:	<u>l'arranza Irk</u>	_Time 4.15_AM/PM
Date: 10-20-08Ve	hicle No. Ob	Driver No
Charge To:	000	
	TYPE OF MATERIA	\L
	— B. W El	Occupation Fluids
Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
Other Materials	☐ BS&W Content:	
<u>^</u>		☐ JETOUT
Description:	<u>i</u>	CALLOUT
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LUME OF MATERIAL	BBLS. /2	YARDS
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		EQ., AND REGULATIONS RELATED THERETO,
		WATERS, AND OTHER WASTE ASSOCIATED
WITH THE EXPLORATION, DEVELOPMEN	IT OR PRODUCTION OF CRUDE OIL	OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDA	NCE SERVICES, INC.'S ACCEPTANC	E OF THE MATERIALS SHIPPED WITH THIS JOB
		TERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY 1	RANSPORTER TO SUNDANCE SERV	ICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIEV that th	a above Transporter loaded the	e material represented by this Transporter
Statement at the above described lo	e above Transporter toauea inc cation, and that it was tendered	e material represented by this Transporter I by the above described shipper. This will
certify that no additional materials	were added to this load, and	I that the material was delivered without
incident.		The material was delivered without
DRIVER: Chui	5,0000	
U	and the second	
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FACILITY REPRESENTATIVE:	1 20000000 1	

	Ticket # 100054
Lease Operator/Shipper/Company	v: Saly Doe
$\langle \langle \rangle \rangle$	
Lease Name:	09
Transporter Company:	onec Time 9:54 AM/PM
Date: 10-20-08 Vehi	icle No Driver No
Charge To:	3C1
	TYPE OF MATERIAL
	TYPE OF MATERIAL Jones
Produced Water	☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil C-117 No.:
Other Materials	BS&W Content:
e e e e e e e e e e e e e e e e e e e	
Description:	☐ JETOUT ☐ CALLOUT
VOLUME OF MATERIAL	BBLS. /7 YARDS
AS A CONDITION TO SUNDANCE SER	RVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS
•	ENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS
	E, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO ALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO,
7	D DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED
	OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERG
	CE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOI
	WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER T ANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
	above Transporter loaded the material represented by this Transport
	ation, and that it was tendered by the above described shipper. This w
certify that no adattional materials v incident.	were added to this load, and that the material was delivered witho
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DRIVER: MUS. Deg	750
FACILITY DEDDECE TO THE	
FACILITY REPRESENTATIVE:	

# Sundance Services, Inc. P.O. Box 1737 ★ Eunice, New Mexico 88231

(575) 394-2511

	A 11-	A	Tic	cket # 100055
Lease Operator/Shipper/Compar	ny: Sa /+y	Nog		
Lease Name: Shy Do	0,			
Transporter Company:	Dawa	Ti	me <u>10 :</u>	80 AMPM
	51			
Date: 10.20-08 Veh	nicle No.	D	river No.	
Charge To: Salty L	109			
,	TYPE OF MA	ATERIAL	Jan	me3
☐ Produced Water	☐ Drilling F	luids	☐ Co	ompletion Fluids
☐ Tank Bottoms	Contamin	nated Soil	□ c-	117 No.:
Other Materials	BS&W C	ontent:		
Description:				OUT LLOUT
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THIS WILL CERTIFY that the statement at the above described loc ertify that no additional materials incident.	cation, and that it wa	is tendered by	the above of	described shipper. This will
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	Ticket # 100037
Lease Operator/Shipper/Company	y: Salty Rog
Lease Name: Salty Do	30
1 h	- 10:01 Gina
Transporter Company:	Time _/
Date: 10.20.08 Vehi	icle No Driver No
Charge To: So to Po	De
	TYPE OF MATERIAL James
☐ Produced Water	☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil C-117 No.:
☐ Other Materials	BS&W Content:
	☐ JETOUT
Description:	☐ CALLOUT
OLUME OF MATERIAL	BBLS. 12 MRDS
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	D DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED
WITH THE EXPLORATION, DEVELOPMENT	OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDANG	CE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB
l	WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY TR	ANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the	above Transporter loaded the material represented by this Transporter
	ation, and that it was tendered by the above described shipper. This will
••	were added to this load, and that the material was delivered without
incident.	
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	lame: A/Ty 609			10.03	
Transpo	orter Company: Guet	2	Ti	Time _/0:07 AM/PM	
Date:	10-20-08 Vehic	le No	65	Driver No.	
	$\leq 11 \text{ A}$				
Charge	To: /+\	<del></del>			
		TYPI	E OF MATERIAL	Jame 3	
	Produced Water		Drilling Fluids	☐ Completion Fluids	
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^ OLUMI	OF MATERIAL		BBLS. /2:	ARDS	
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,				RIAL DELIVERED BY OPERATOR/SHIPPE ES, INC.'S FACILITY FOR DISPOSAL.	ik 10
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		TYPI	E OF MATERIA	L James
	Produced Water		Drilling Fluids	☐ Completion Fluids
	Tank Bottoms		Contaminated Soil	☐ C-117 No.:
	Other Materials		BS&W Content:	
				☐ JETOUT
	Description:	14		☐ CALLOUT
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/OLUME	OF MATERIAL		BBLS. 12	Z YARDS
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				WASTE MATERIAL SHIPPED HEREWITH IS
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				E OF THE MATERIALS SHIPPED WITH THIS JOB
				TERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORT	FER IS NOW DELIVERED	D BY TRANSPORTI	ER TO SUNDANCE SERV	ICES, INC.'S FACILITY FOR DISPOSAL.
THIS	WILL CERTIFY #	at the above Tr	ansnorter loaded the	material represented by this Transporter
				by the above described shipper. This will
				that the material was delivered without
incident.				
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DRIVER: _	Make	Pala	46	
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w*	Ticket # 100062
Lease Operator/Shipper/Compar	ny: Salty Dog
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Lease Name:	703)
Transporter Company:	Time/ <u>/</u> /2:33_ <b>AM/</b> PM
16 2 2 0	
Date: 10.26.68Veh	hicle No. <u>3/5</u> Driver No
Charge To:	,
onal go lot	
	TYPE OF MATERIAL Jame 3
Produced Water	☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil C-117 No.:
Other Materials	BS&W Content:
Description:	☐ JETOUT ☐ CALLOUT
Ja 17	
OLUME OF MATERIAL	BBLS. /2 YARDS
	ERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS
	SENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS CE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO
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	ED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED
	T OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY
ALSO AS A CONDITION TO SUNDAN	NCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB
	D WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO
	RANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
	e above Transporter loaded the material represented by this Transporter
	cation, and that it was tendered by the above described shipper. This wil
certify that no additional materials incident.	were added to this load, and that the material was delivered withou
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DRIVER: HUGO COLO	5
1 W COPC	
FACILITY REPRESENTATIVE:	

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Lease N	lame: <u> </u>	Nos	·		The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa
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Date:_/	02009	Vehicle No.	312	Driver	No
Charge	To: Jaky 1	Joe			
		TYP	E OF MATERIA	L	James
П	Produced Water	П	Drilling Fluids		Completion Fluids
			-		•
	Tank Bottoms		Contaminated Soil		C-117 No.:
	Other Materials		BS&W Content:		
				П	JETOUT
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					IVERED BY OPERATOR/SHIPPER TO
RANSPOR	RTER IS NOW DELIVERED B	Y TRANSPORT	ER TO SUNDANCE SERVI	CES, INC.'S	S FACILITY FOR DISPOSAL.
THI	S WILL CERTIFY that	the above Ti	ransporter loaded the	material	represented by this Transporter
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					material was delivered withou
ncident.			,		
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Lease N	Name:S/	ty Dog			
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Date:	0.20-68	Vehicle No	101	Driver No	
Charge	To:4	y Dog			
		ТҮРІ	E OF MATERIA	L James	<del></del>
	Produced Wate	r 🗆	Drilling Fluids	☐ Completion Fluids	
	Tank Bottoms	B'	Contaminated Soil	C-117 No.:	
	Other Materials		BS&W Content:		
	Description:	Se/+		☐ JETOUT ☐ CALLOUT	
OLUM	OF MATERIAL	•	BBLS. 12	ARDS	
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Statemen	t at the above des	cribed location, and	l that it was tendered	material represented by this Tro by the above described shipper. that the material was delivered	This will
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ACILITY	REPRESENTATI	/E:		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	

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Lease Name: Salty dea	<del></del>
Transporter Company: 6 AM/PM	
Date: 10-18-08 Vehicle No. 315 Driver No	
Charge To: Salty do	
TYPE OF MATERIAL	
☐ Produced Water ☐ Drilling Fluids ☐ Completion Fluids	
☐ Tank Bottoms ☐ Contaminated Soil ☐ C-117 No.:	
☐ Other Materials ☐ BS&W Content:	Ŕ _{s.}
Description:	
OLUME OF MATERIAL BBLS. / ARDS	· · · · · · · · · · · · · · · · · · ·
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS TOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH I MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIMING MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIMING MILL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIMING MILL EXEMPT FROM THE RESOURCE, THE NAME OF THE MATERIAL OF THE WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENTER THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPED WITH THE TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPED FRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transfortement at the above described location, and that it was tendered by the above described shipper. The certify that no additional materials were added to this load, and that the material was delivered with circular.	E TO ETO, ED NERGY. IIS JOB PER TO sporter his will
metaent.	
DRIVER: FUMO COBOS	
FACILITY REPRESENTATIVE:	

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Lease O	perator/Shipper/Compa	ny: Salty D	og James
Lease N	lame:laltu	s daa	U U
Transpo	orter Company:	nacho TRK	Time 6 17 AMPM
Date:_	0-18-08 ver	hicle No	Driver No
Charge	To: Salty o	log	
	<u> </u>	TYPE OF MATER	RIAL
	Produced Water	☐ Drilling Fluids	☐ Completion Fluids
	Tank Bottoms	Contaminated S	Soil C-117 No.:
	Other Materials	BS&W Content	:
	Description: Sa	£,	☐ JETOUT ☐ CALLOUT
OLUME	OF MATERIAL	BBLS.	Z YARDS
OB TICKE IATERIAL IME, 40 U Y VIRTUE /ITH THE ALSO ICKET, TR	T, OPERATOR/SHIPPER REPRES EXEMPT FROM THE RESOURC S.C. 6901, ET SEQ., THE NM HE E OF THE EXEMPTION AFFORD EXPLORATION, DEVELOPMEN O AS A CONDITION TO SUNDAY RANSPORTER REPRESENTS AN	SENTS AND WARRANTS THAT TO CE, CONSERVATION AND RECOP EALTH AND SAF. CODE 361.001 ID DED DRILLING FLUIDS, PRODUC OFF OR PRODUCTION OF CRUDE NICE SERVICES, INC.'S ACCEPTATE ID WARRANTS THAT ONLY THE	OF THE MATERIALS SHIPPED WITH THIS THE WASTE MATERIAL SHIPPED HEREWITH IS VERY ACT OF 1976, AS AMENDED FROM TIME TO ET SEQ., AND REGULATIONS RELATED THERETO, CED WATERS, AND OTHER WASTE ASSOCIATED OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ANCE OF THE MATERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY OPERATOR/SHIPPER TO SERVICES, INC.'S FACILITY FOR DISPOSAL.
THI tatement	S WILL CERTIFY that the t at the above described loo	e above Transporter loadec cation, and that it was tend	d the material represented by this Transporter lered by the above described shipper. This will and that the material was delivered without
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ACILITY	REPRESENTATIVE:	2 flim	

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Lease C	perator/Shipper/Company	/:_Ş	salty de	00	James
Lease N	lame: Salt	<u>ad</u>	Oa J	U ————	Ü
i	orter Company: E YM	TK	PKU	_Time _5	: 44 AM/PM
Date:	10-18-08 Vehic	cle No.	04	Driver N	No
Charge	To: Saltur	de	20		
	J	TYP	E OF MATERIA	<u> </u>	
	Produced Water		Drilling Fluids		Completion Fluids
	Tank Bottoms	X	Contaminated Soil		C-117 No.:
	Other Materials		BS&W Content:		
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DRIVER:	allera	a	Ma		
FACILITY	REPRESENTATIVE:		<u></u>		
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·					Ticket # 1099930
Lease C	perator/Shipper/Comp	any: <u></u>	as puth		James
Lease N	lame: Salti	100	<u>a</u>	}	<u> </u>
i	orter Company: <u>(b</u> )	huni	, 0	_Time _	5:36_AM/M
Date:_/	10-18-08 v	ehicle No	312	Driver 1	No
Charge	To: Salty	Dog	<u> </u>		
	<del></del>	TYPI	OF MATERIA	<u>L</u>	
	Produced Water		Drilling Fluids		Completion Fluids
	Tank Bottoms	X	Contaminated Soil		C-117 No.:
	Other Materials		BS&W Content:		
	Description:	Lt		_	JETOUT CALLOUT
/OLLIMI	E OF MATERIAL		BBLS. / 그	YARDS	
OLUMI	OF MATERIAL		BBLS.	ARDS	
JOB TICKE MATERIAI TIME, 40 U BY VIRTUI	EXEMPT FROM THE RESOU S.C. 6901, ET SEQ., THE NM I E OF THE EXEMPTION AFFOR	ESENTS AND RCE, CONSER HEALTH AND RDED DRILLIN	WARRANTS THAT THE W VATION AND RECOVERY SAF. CODE 361.001 ET SE NG FLUIDS, PRODUCED W	VASTE MAT VACT OF 19 Q., AND RE VATERS, AN	ALS SHIPPED WITH THIS ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, ID OTHER WASTE ASSOCIATED AL GAS OR GEOTHERMAL ENERGY.
TICKET, TI		ND WARRAN	TS THAT ONLY THE MAT	ERIAL DEL	ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO S FACILITY FOR DISPOSAL.
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FACILITY	REPRESENTATIVE:	-1	lim/		
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*			Ticket # 1099932
Lease Operator/Shipper/Comp	pany: Saltin C	do	James
Lease Name:	u doal	0	Û
Transporter Company:	PH TRU	Time	(e:00 AM/EM
Date: 10-18-08 V	ehicle No.	Driver	No
Charge To:	1 don		
	TYPE OF MATE	RIAL	
☐ Produced Water	Drilling Fluids		Completion Fluids
Tank Bottoms	Contaminated	Soil	C-117 No.:
☐ Other Materials	BS&W Conten	t:	
Description:	Q-A-		JETOUT CALLOUT
/OLUME OF MATERIAL	BBLS.	12 ARDS	
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DRIVER:	· ·		
FACILITY REPRESENTATIVE:	Office of		
TAVIETT HEI HEVERTATIVE.	The		

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Lease C	perator/Shipper/Com	pany: 🥧	altyd	00	-James
Lease N	lame: Salt	ydi	) <del> </del>	<u> </u>	U
Transpo	orter Company:	WHA	dawg	_Time _(	e:10_AMPM
Date:_/	0-18-08	Vehicle No	D-10	Driver l	No
Charge	To: Salt	LA De	0e		
		TYP	E OF MATERIA	L	
	Produced Water		Drilling Fluids		Completion Fluids
	Tank Bottoms	X	Contaminated Soil		C-117 No.:
	Other Materials		BS&W Content:		
	Description: Sa	LL.			JETOUT CALLOUT
VOLUME	OF MATERIAL		BBLS.	) YARDS	
			10	<u> </u>	
JOB TICKE MATERIAL TIME, 40 U BY VIRTUI WITH THE	EXEMPT FROM THE RESOU S.C. 6901, ET SEQ., THE NM E OF THE EXEMPTION AFFO EXPLORATION, DEVELOPM	RESENTS AND URCE, CONSER HEALTH AND ORDED DRILLIN IENT OR PROD	WARRANTS THAT THE V VATION AND RECOVER' SAF. CODE 361.001 ET SI NG FLUIDS, PRODUCED V UCTION OF CRUDE OIL	WASTE MAT Y ACT OF 19 EQ., AND RE WATERS, AN OR NATURA	ALS SHIPPED WITH THIS ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, ID OTHER WASTE ASSOCIATED AL GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB
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Statemen	t at the above described	location, and	d that it was tendered	by the ab	represented by this Transporter ove described shipper. This will material was delivered without
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DRIVER:	Lohnung 1	/			
EACII ITV	REPRESENTATIVE:	2)	l. and	/	
AUILIIT	ALPRESENTATIVE:	7	-WWW		<del> </del>

	Λ	Á	Ticket # 0/99929
Lease Operator/Shipper/Company	y: Salt	u don	James
Lease Name: Saltu	. doa		<b>(</b>
Transporter Company:	unquen.	TRVTime	5:15 AM/PM
Date: 10-18-08 Vehi	cle No. 10	Drive	er No
Charge To:	dog		
V	TYPE OF M	ATERIAL	
☐ Produced Water	☐ Drilling F	luids	Completion Fluids
☐ Tank Bottoms	⊠ Contami	nated Soil	C-117 No.:
Other Materials	☐ BS&W C	ontent:	:
Description:	文		☐ JETOUT ☐ CALLOUT
VOLUME OF MATERIAL	BBLS.	17 ARD	S
AS A CONDITION TO SUNDANCE SER JOB TICKET, OPERATOR/SHIPPER REPRESE MATERIAL EXEMPT FROM THE RESOURCE TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEA BY VIRTUE OF THE EXEMPTION AFFORDEI WITH THE EXPLORATION, DEVELOPMENT	NTS AND WARRANTS , CONSERVATION AND LTH AND SAF. CODE 3 D DRILLING FLUIDS, F	THAT THE WASTE M D RECOVERY ACT OF 61.001 ET SEQ., AND PRODUCED WATERS,	ATERIAL SHIPPED HEREWITH IS 1976, AS AMENDED FROM TIME TO REGULATIONS RELATED THERETO, AND OTHER WASTE ASSOCIATED
ALSO AS A CONDITION TO SUNDANC TICKET, TRANSPORTER REPRESENTS AND TRANSPORTER IS NOW DELIVERED BY TR	WARRANTS THAT ON	LY THE MATERIAL D	
THIS WILL CERTIFY that the a Statement at the above described loca certify that no additional materials v incident.	tion, and that it wa	s tendered by the	
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FACILITY REPRESENTATIVE:	2 fp		
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	orter Company:	macho	TRK.	Time _ <i>_</i>	4134 AM/M
Date: _/	0-18-08 v	/ehicle No	&O	Driver l	No
Charge	To: Salt	s al se	<b>X</b>		
		TYPE	OF MATERIA	\L	
	Produced Water		Prilling Fluids		Completion Fluids
	Tank Bottoms	P C	Contaminated Soil		C-117 No.:
	Other Materials		3S&W Content:		
	Description:	<del>L</del> -L			JETOUT CALLOUT
OLUME	OF MATERIAL	ВІ	BLS.	YARDS	
JOB TICKE MATERIAL TIME, 40 U BY VIRTUE WITH THE ALSO	EXEMPT FROM THE RESOU S.C. 6901, ET SEQ., THE NM GOF THE EXEMPTION AFFOI EXPLORATION, DEVELOPM DAS A CONDITION TO SUND	RESENTS AND WA PROFE, CONSERVATO HEALTH AND SAI RDED DRILLING I ENT OR PRODUCTO DANCE SERVICES,	RRANTS THAT THE VITION AND RECOVER'S F. CODE 361.001 ET SIFLUIDS, PRODUCED TION OF CRUDE OIL	WASTE MATE Y ACT OF 19 EQ., AND RE WATERS, AN OR NATURA	ALS SHIPPED WITH THIS ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, ID OTHER WASTE ASSOCIATED L GAS OR GEOTHERMAL ENERGY ATERIALS SHIPPED WITH THIS JOB
TRANSPOR	ETER IS NOW DELIVERED BY  S WILL CERTIFY that	y transporter the above Tran	to sundance serv sporter loaded the	TICES, INC.'S  material	FACILITY FOR DISPOSAL.  represented by this Transporte
					ove described shipper. This wil material was delivered withou
		/			
DRIVER: _		-		Aug.	
FACILITY	REPRESENTATIVE:	20	lin	s. market and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and	

		Ticket # (099918
Lease Operator/Shipper/Comp	pany:	tog James
Lease Name:	in dog	0 0
Transporter Company:	of daily	Time 4:06 AMPM
Date: 10-18-08 V	ehicle No.	Driver No.
Charge To:	in doa	
	TYPE OF MATERIA	<b>L</b>
☐ Produced Water	☐ Drilling Fluids	Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
Other Materials	BS&W Content:	• •
Description:	£	☐ JETOUT ☐ CALLOUT
VOLUME OF MATERIAL	BBLS. 2	ARDS
JOB TICKET, OPERATOR/SHIPPER REPR MATERIAL EXEMPT FROM THE RESOU TIME, 40 U.S.C. 6901, ET SEQ., THE NM I BY VIRTUE OF THE EXEMPTION AFFORWITH THE EXPLORATION, DEVELOPMI ALSO AS A CONDITION TO SUND TICKET, TRANSPORTER REPRESENTS A TRANSPORTER IS NOW DELIVERED BY THIS WILL CERTIFY that it Statement at the above described it	RCE, CONSERVATION AND RECOVERY HEALTH AND SAF. CODE 361.001 ET SE RDED DRILLING FLUIDS, PRODUCED VENT OR PRODUCTION OF CRUDE OIL CONTROL OF CRUDE OIL CONTROL OF CRUDE OIL CONTROL OF CRUDE OIL CONTROL OF CRUDE OIL CONTROL OF CRUDE OIL CONTROL OF CRUDE OIL CONTROL OF CRUDE OIL CONTROL OF CRUDE OIL CONTROL OF CRUDE OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL CONTROL OIL	VASTE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME TO Q., AND REGULATIONS RELATED THERETO, VATERS, AND OTHER WASTE ASSOCIATED DR NATURAL GAS OR GEOTHERMAL ENERGY.  OF THE MATERIALS SHIPPED WITH THIS JOB ERIAL DELIVERED BY OPERATOR/SHIPPER TO
DRIVER: JELLING T.	0-/	
FACILITY REPRESENTATIVE:	Illian	

			Ticket # 09991 <u>6</u>
Lease Operator/Sh	nipper/Company:	altyde	Da James
Lease Name:	saltude	La U	
Transporter Comp	0 11	TRK	Time 3:57 AM/PM
Date: (0 - (8	8-08 Vehicle No.	0(	Driver No.
Charge To:	altad	00	
	ТҮР	E OF MATERIAL	
Produced	Water $\square$	Drilling Fluids	Completion Fluids
☐ Tank Botto	oms 💹	Contaminated Soil	☐ C-117 No.:
Other Mate	erials 🗀	BS&W Content:	
Descriptio	n: 50 ) +		☐ JETOUT ☐ CALLOUT
VOLUME OF MATE	RIAL	BBLS. 17	, 'ARDS
JOB TICKET, OPERATOR MATERIAL EXEMPT FRO TIME, 40 U.S.C. 6901, ET BY VIRTUE OF THE EXE WITH THE EXPLORATIO  ALSO AS A CONDI TICKET, TRANSPORTER TRANSPORTER IS NOW  THIS WILL CE Statement at the above	SHIPPER REPRESENTS AND THE RESOURCE, CONSEI SEQ., THE NM HEALTH AND MPTION AFFORDED DRILLI ON, DEVELOPMENT OR PROI TION TO SUNDANCE SERVE REPRESENTS AND WARRAN DELIVERED BY TRANSPORT OF RESOURCE THE RESOURCE TO THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS AND WARRAN THE REPRESENTS	WARRANTS THAT THE WARVATION AND RECOVERY A SAF. CODE 361.001 ET SECOND FLUIDS, PRODUCED WARVATION OF CRUDE OIL OF CES, INC.'S ACCEPTANCE OF THAT ONLY THE MATE FOR TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE TO SUNDANCE SERVICE SUNDANCE SERVICE SUNDANCE SERVICE SUNDANCE SERVICE SUNDANCE SERVICE SUNDANCE SERVICE SUNDANCE SERVICE SUNDANCE SERVICE SUNDANCE SERVICE SUNDANCE SERVICE SUNDANCE SERVICE SUNDANCE SERVICE SUNDANCE SERVICE	IE MATERIALS SHIPPED WITH THIS  ACT OF 1976, AS AMENDED FROM TIME TO Q., AND REGULATIONS RELATED THERETO,  ATTERS, AND OTHER WASTE ASSOCIATED OR NATURAL GAS OR GEOTHERMAL ENERGY  OF THE MATERIALS SHIPPED WITH THIS JOE  ERIAL DELIVERED BY OPERATOR/SHIPPER TO  CES, INC.'S FACILITY FOR DISPOSAL.  material represented by this Transporte  by the above described shipper. This wi  that the material was delivered without
DRIVER:	ITATIVE:	flin	

All A All					•	Ticket # 099915
Transporter Company:	Lease C	perator/Shipper/Com	pany: 5	Uty d	Log	Janes
Transporter Company:	Lease N	lame: Salt	In d	Loa -		
TYPE OF MATERIAL    Produced Water			IM TR	K	Time	3:47 AMPM
TYPE OF MATERIAL    Produced Water	Date:_/	10-18-08	/ Vehicle No	04	Driver	No
Produced Water Drilling Fluids Completion Fluids Tank Bottoms Contaminated Soil C-117 No.:    Other Materials   BS&W Content:	Charge	To: Salt	a de	<u> </u>		
Contaminated Soil C-117 No.:    Tank Bottoms			TYPE	OFMATERIA	۸L	
Description:    JETOUT     CALLOUT     Description:   JETOUT     CALLOUT     JETOUT     CALLOUT     CALLOUT     JETOUT     CALLOUT     CALLOUT     JETOUT     CALLOUT     CALL		Produced Water		Drilling Fluids		Completion Fluids
Description:    JETOUT		Tank Bottoms		Contaminated Soi		C-117 No.:
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS OB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB DICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  ORIVER:		Other Materials		BS&W Content:		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS OB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will exertify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:  ORIGINAL OF THE MATERIAL SHIPPED WITH THIS SHIPPED WITH THIS SHIPPED WITH THIS SHIPPED WITH THIS JOB THERE WAS THE MATERIAL SHIPPED WITH THE TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THE TO THERE TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THE TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE WAS TO THE MATERIAL SHIPPED WITH THE TO THE MATERIAL SHIPPED WITH THE TO THE MATERIAL SHIPPED WITH THE TO THE MATERIAL SHIPP		Description:	J.		0	
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS OB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will exertify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:  ORIGINAL OF THE MATERIAL SHIPPED WITH THIS SHIPPED WITH THIS SHIPPED WITH THIS SHIPPED WITH THIS JOB THERE WAS THE MATERIAL SHIPPED WITH THE TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THE TO THERE TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THE TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE MATERIAL SHIPPED WITH THIS JOB THERE WAS TO THE WAS TO THE MATERIAL SHIPPED WITH THE TO THE MATERIAL SHIPPED WITH THE TO THE MATERIAL SHIPPED WITH THE TO THE MATERIAL SHIPP	/OL 11847	- OF MATERIAL		DDI C /	7 4000	
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Statement at the above described location, and that it was tendered by the above described shipper. This will sertify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:	IOB TICKE MATERIAL FIME, 40 U BY VIRTUI WITH THE ALSO FICKET, TE	T, OPERATOR/SHIPPER REF EXEMPT FROM THE RESO S.C. 6901, ET SEQ., THE NM E OF THE EXEMPTION AFFO EXPLORATION, DEVELOPM O AS A CONDITION TO SUN RANSPORTER REPRESENTS	PRESENTS AND Y URCE, CONSERY I HEALTH AND S DRDED DRILLIN MENT OR PRODU DANCE SERVIC AND WARRANT	WARRANTS THAT THE VATION AND RECOVER SAF. CODE 361.001 ET SE SE SE SAF. CODE 361.001 ET SE SAF. CODE OIL COLON OF CRUDE OIL ES, INC.'S ACCEPTANCES THAT ONLY THE MA	WASTE MAT RY ACT OF 19 SEQ., AND RE WATERS, AN OR NATURA TE OF THE MA TERIAL DEL	ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, ID OTHER WASTE ASSOCIATED AL GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO
O(10)	Statemen	t at the above described	location, and	l that it was tendere	d by the ab	ove described shipper. This will
O(10)				111		
ACILITY REPRESENTATIVE:	ORIVER:	alles	ch.	allo		
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	-ΔCII ITV	REPRESENTATIVE		20		
/ 1	AUILIT	THE THE SENTATIVE:		Dun		

			Ticket # 099912			
Lease C	perator/Shipper/Comp	pany: 50 thy doe	James			
Lease N	lame:	ty dod	U			
Transpo	orter Company:	emini -	Time <u>3:30</u> AMPM			
Date:	0-18-08 v	/ehicle No	Driver No.			
Charge	то:					
	. , ,	TYPE OF MATERIAL				
	Produced Water	Drilling Fluids	Completion Fluids			
	Tank Bottoms	Contaminated Soil	C-117 No.:			
	Other Materials	BS&W Content:				
	Description:	<u>J</u>	☐ JETOUT ☐ CALLOUT			
VOLUMI	OF MATERIAL	BBLS.	YARDS			
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.						
DRIVER:	DRIVER: HUGO COBOS					
FACILITY	FACILITY REPRESENTATIVE:					
		//				

			. 1		Ticket _d # 099911
Lease C	Dperator/Shipper/Compar	ny: 奏	altid	00/	James
	lame: Salt.	ad		0	<u> </u>
Transpo	orter Company: Le	nun	i 0	_Time _	3128 AMAPM
Date:	<u>/0-(8-08_vel</u>	nicle No	312	Driver l	No
Charge	To: Salte	<u>a</u> d	ea		
		TYPE	OF MATERIA	L	
	Produced Water		Drilling Fluids		Completion Fluids
	Tank Bottoms	X	Contaminated Soil		C-117 No.:
	Other Materials		BS&W Content:		
	Description:	2-1			JETOUT CALLOUT
VOLUME	OF MATERIAL		BBLS.	YARDS	
JOB TICKE MATERIAL TIME, 40 U BY VIRTUI WITH THE  ALSO TICKET, TE TRANSPOR	S.C. 6901, ET SEQ., THE NM HE, E OF THE EXEMPTION AFFORDI EXPLORATION, DEVELOPMENT OF AS A CONDITION TO SUNDAN RANSPORTER REPRESENTS AND RETER IS NOW DELIVERED BY THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SEC	EENTS AND VEE, CONSERVALTH AND SED DRILLING TOR PRODUNCE SERVICE O WARRANT RANSPORTE E above Transition, and	WARRANTS THAT THE VATION AND RECOVER'S AF. CODE 361.001 ET SIG FLUIDS, PRODUCED VICTION OF CRUDE OIL ES, INC.'S ACCEPTANCE STHAT ONLY THE MAIN RESOLUTION OF CRUDE SERVE ANSPORTER LOADED THE MAIN RESOLUTION OF CRUDE OF THE MAIN RESOLUTION OF CRUDE OF THE MAIN RESOLUTION OF CRUDE OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAIN RESOLUTION OF THE MAI	WASTE MATE Y ACT OF 19' EQ., AND RE WATERS, AN OR NATURA E OF THE MATERIAL DELITICES, INC.'S E material if	ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED L GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB (VERED BY OPERATOR/SHIPPER TO
FACILITY	REPRESENTATIVE		blion		
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•						Ticket #	<b>399904</b>
Lease Ope	erator/Shipper/Con	npany:	atty (	dod	\		ames
Lease Nam	ne: Salt	- d	000		J 	-	
	er Company:	Winds	en TPK	Tir	ne	3:03	AM PM
Date:/_/	0-18-08	Vehicle No	101	Dı	river N	lo	
Charge To	: Salt	, do	0				
		TYPE	OF MATE	RIAL			
Pı	roduced Water		Drilling Fluids	<b>S</b>		Completio	n Fluids
□ Та	ank Bottoms		Contaminated	l Soil		C-117 No.:	
_ o	ther Materials		BS&W Conte	nt:			
De	escription:	a O-t			_	JETOUT CALLOUT	
OLUME O	F MATERIAL		BBLS.	2 ×	RDS		
JOB TICKET, C MATERIAL EX TIME, 40 U.S.C BY VIRTUE OF WITH THE EXI ALSO AS TICKET, TRAN	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS FOR TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO FIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB FICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.						
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.							
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DRIVER: ///							
FACILITY RE	PRESENTATIVE:	41	tis	- The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the			

					Ticket # 0,99902	
Lease Op	erator/Shipper/Compa	iny: S	eltydo	9	James	
Lease Name: Solty Dog						
Transport	er Company:	Mac	IND TRK	_Time	1:35 AM/PM	
Date: _/()	-18-08 Ve	hicle No.	20	Driver l	No	
Charge To	: Balt	MJ	)00			
		TYP	E OF MATERIA	L		
F	Produced Water		Drilling Fluids		Completion Fluids	
ו 🗆 ו	Tank Bottoms	$\triangleright$	Contaminated Soil		C-117 No.:	
	Other Materials		BS&W Content:			
[	Description: 30	L			JETOUT CALLOUT	
VOLUME /	OF MATERIAL		17	V-555		
VOLUME	OF MATERIAL		BBLS.	ARDS		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.						
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.						
DRIVER:	DRIVER:					
FACILITY REPRESENTATIVE:						
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•				0	A		Ticket # 099895
Lease C	perator/Shipp	er/Company	:= <u>`</u>	ofth	do	9	James
Lease N	lame: Se	uth	<u>}</u>	Logy		J	0
Transpo	orter Company	: Tuff	D	and_	Tir	ne <u>-</u>	2:14 AM/PM
Date:	0-18-6	2 Vehic	ਹ le No	DI	Dı	river N	lo
Charge	-	lter	di	20			
		J	TYPI	E OF MATE	RIAL		
	Produced Wat	er		Drilling Fluids			Completion Fluids
	Tank Bottoms		×	Contaminated	Soil		C-117 No.:
	Other Material	<b>s</b> .		BS&W Content	t <b>:</b>		
	Description:	Sal	L				JETOUT CALLOUT
(O) UM	E OF MATERIA			DDLC	17	DDC	
OLUME	E OF MATERIA	<b>L</b>		BBLS.	100	RDS	
JOB TICKE MATERIAL TIME, 40 U BY VIRTUE	T, OPERATOR/SHI LEXEMPT FROM T J.S.C. 6901, ET SEQ E OF THE EXEMPT	PPER REPRESEN HE RESOURCE, ., THE NM HEAL ION AFFORDED	TS AND CONSER TH AND DRILLIN	WARRANTS THAT VATION AND RECO SAF. CODE 361.001 IG FLUIDS, PRODU	THE WAST VERY ACT ET SEQ., A CED WATE	E MATE OF 197 ND REC RS, ANI	LS SHIPPED WITH THIS ERIAL SHIPPED HEREWITH IS 6, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED L GAS OR GEOTHERMAL ENERGY
TICKET, TI	RANSPORTER REP	RESENTS AND V	VARRAN	TS THAT ONLY THE	E MATERIA	L DELI	TERIALS SHIPPED WITH THIS JOB VERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL.
Statemen	t at the above d	escribed locat	ion, and	d that it was tend	lered by t	he abo	represented by this Transporte ove described shipper. This wil naterial was delivered withou
DRIVER:	1.4/_	11.	7	/			
	7 /		7	00			
FACILITY	REPRESENTAT	IVE:		Vin			

			Λ	Ticket # 0)99893
Lease C	perator/Shipper/	Company: Solta	dog	James
Lease N	lame: SA	Itu door	U	U
	orter Company: _	164H TRK	Time _	:50_AM/EM
Date: _	0-18-08	Vehicle No.	Driver	No
Charge	To: 501	tindoa		
		TYPE OF MATE	RIAL	
	Produced Water	Drilling Fluids		Completion Fluids
	Tank Bottoms	Contaminated	Soil	C-117 No.:
	Other Materials	BS&W Conten	t:	
	Description:	salt		JETOUT CALLOUT
/OLLIME	OF MATERIAL	BBLS.	/ 2 ARDS	
OLOMI	O WAILMAL	DDL3.	( CARDS	A A A A A A A A A A A A A A A A A A A
OB TICKE MATERIAL TIME, 40 U BY VIRTUE WITH THE ALSO TICKET, TE	T, OPERATOR/SHIPPEI EXEMPT FROM THE I S.C. 6901, ET SEQ., TH E OF THE EXEMPTION EXPLORATION, DEVE O AS A CONDITION TO RANSPORTER REPRES	DANCE SERVICES, INC.'S ACCEPTANCE R REPRESENTS AND WARRANTS THAT RESOURCE, CONSERVATION AND RECOILE NM HEALTH AND SAF. CODE 361.001 AFFORDED DRILLING FLUIDS, PRODUCTION OF CRUDIC ELOPMENT OR PRODUCTION OF CRUDIC SUNDANCE SERVICES, INC.'S ACCEPTENTS AND WARRANTS THAT ONLY THE RED BY TRANSPORTER TO SUNDANCE	THE WASTE MAT DVERY ACT OF 19 ET SEQ., AND RE ICED WATERS, AN E OIL OR NATURA FANCE OF THE M. E MATERIAL DEL	ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO EGULATIONS RELATED THERETO, ID OTHER WASTE ASSOCIATED AL GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO
Statemen	t at the above descr	that the above Transporter loade ribed location, and that it was tend naterials were added to this load,	dered by the ab	ove described shipper. This will
		1 -	<del></del>	
RIVER:	Bland 1			
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ACILITY	REPRESENTATIVE	- JA	m	A Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Comp
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	^ *		Ticket # <u>0099890</u>		
Lease Operator/Shipper/Compa	ny: Salt	1 200	James		
Lease Name: Solt	1 Doa		0		
Transporter Company: 9	M TRK	Time	1:37 AMPM		
Date: 10-18-08_Vel	hicle No. 04	Driver	No		
Charge To: Salta	Dog				
	TYPE OF MA	TERIAL	and the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the		
Produced Water	☐ Drilling Flu	ids 🗌	Completion Fluids		
☐ Tank Bottoms	Contamina	ted Soil	C-117 No.:		
Other Materials	BS&W Cor	itent:			
Description:	LL		JETOUT CALLOUT		
/OLUME OF MATERIAL	BBLS.	12 ARDS			
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS TOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will tertify that no additional materials were added to this load, and that the material was delivered without incident.					
PRIVER: ACILITY REPRESENTATIVE:					

			. //		Ticket # 089889		
Lease C	Lease Operator/Shipper/Company: 50 the dog famely						
Lease N	ame:	tind	Qau_	<u>U</u>			
	orter Company:	mini	0	Time	1:31_AM#M		
Date: _	0-18-08 v	ehicle No.	312	Driver I	No		
Charge	To: Saltu	1do					
		TYPE C	F MATERIA	L			
	Produced Water	☐ Dr	illing Fluids		Completion Fluids		
	Tank Bottoms	Z Co	ntaminated Soil		C-117 No.:		
	Other Materials	□ вя	&W Content:				
	Description:	lt			JETOUT CALLOUT		
VOLUME	OF MATERIAL	200	c 1-	) MDDC			
VOLUME	OF MATERIAL	BBI	-S.   O	ARDS			
JOB TICKE MATERIAL TIME, 40 U BY VIRTUE	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.						
TICKET, TR		ND WARRANTS TI	HAT ONLY THE MA	TERIAL DEL	ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL.		
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.							
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DRIVER:							
FACILITY	REPRESENTATIVE:		Kom	<u> </u>			
		V					

		Ticket # 099887			
Lease Operator/Shipper/Compar	ny: Salty d	Dog James			
Lease Name: 50 1	1 Dog	<u> </u>			
Transporter Company:	mini	TimeAMA®M			
Date: <u>(0-18-08</u> Veh	nicle No. 3 (5	Driver No			
Charge To: Saltin	Dea				
J	TYPE OF MATER	RIAL			
Produced Water	☐ Drilling Fluids	☐ Completion Fluids			
☐ Tank Bottoms	Contaminated S	Soil C-117 No.:			
Other Materials	☐ BS&W Content:	:			
Description:	J.	☐ JETOUT ☐ CALLOUT			
OLUME OF MATERIAL	BBLS.	12 ARDS			
OLUME OF MATERIAL	DDLS,	ARDS			
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS IOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO FIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.					
ICKET, TRANSPORTER REPRESENTS AN	D WARRANTS THAT ONLY THE	ANCE OF THE MATERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY OPERATOR/SHIPPER TO SERVICES, INC.'S FACILITY FOR DISPOSAL.			
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.					
DRIVER: 10GO COL	30 S				
ACILITY REPRESENTATIVE:	Illan				
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s					

					Ticket # 099884
Lease Operato	r/Shipper/Company	ر:_S	alty Do	<u>a</u>	James
Lease Name:	Saltur	5	60 J	<u> </u>	<u> </u>
Transporter Co		3	<u> </u>	_Time/	: 00 AM/M
Date: 10 - 1	<u>8-08</u> Vehi	cle No	101	Driver N	lo
Charge To:	saltu	200	O _X		
	7	TYPI	E OF MATERIAL	_	
☐ Produc	ced Water		Drilling Fluids		Completion Fluids
☐ Tank B	Bottoms	X	Contaminated Soil		C-117 No.:
Other I	Materials		BS&W Content:		
Descri	ption: $5a$	火			JETOUT CALLOUT
VOLUME OF MA	ATERIAL		BBLS.	<b>Y</b> ARDS	
JOB TICKET, OPERA MATERIAL EXEMPT TIME, 40 U.S.C. 6901 BY VIRTUE OF THE	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.				
TICKET, TRANSPOR	TER REPRESENTS AND	WARRAN'	TS THAT ONLY THE MATE	ERIAL DELI	TERIALS SHIPPED WITH THIS JOB VERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.					
DRIVER:					
FACILITY REPRES	SENTATIVE	>	Plan	<i>/</i>	
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	orter Company: 5e.M	1	Ti	me <u>2.52</u> AM)PM
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Date:	Vehic	cle No	<u>)/ )</u>	river No.
Charge	To:	og		
Α	,	TYPE	OF MATERIAL	James
	Produced Water		Drilling Fluids	☐ Completion Fluids
	Tank Bottoms		Contaminated Soil	C-117 No.:
	Other Materials		BS&W Content:	
	Description: $Sa/4$			☐ JETOUT ☐ CALLOUT
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$TH^{\dagger}$	S WILL CERTIEV that the	ahova Tra	ansporter loaded the ma	terial represented by this Transporter
				the above described shipper. This will
				nt the material was delivered without
incident.				
DRIVER:	HUGO (030	3		
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FACILITY	REPRESENTATIVE:			

	Ticket # () 99854
Lease Operator/Shipper/Company	vi Salty Dog
/ //	
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Transporter Company:(_&an	Time 700 Capit in
Date: 10-18-08 Vehic	cle No. <u>3/12</u> Driver No
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Charge To:	18°C,
	TYPE OF MATERIAL
	TYPE OF MATERIAL James
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Other Materials	BS&W Content:
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	NTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO
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	OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.
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	ation, and that it was tendered by the above described shipper. This will
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FACILITY REPRESENTATIVE:	

				Ticket # 099857
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<b>D</b> u.0	0 11			
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		TYPE OF MAT	TERIAL	James
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	Tank Bottoms	Contaminat	ed Soil	C-117 No.:
	Other Materials	BS&W Con	tent:	
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ΤΥ	PE OF MATERIAL James
Produced Water	Drilling Fluids Completion Fluids
☐ Tank Bottoms □	Contaminated Soil C-117 No.:
☐ Other Materials ☐	BS&W Content:
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JOB TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CONS TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH A BY VIRTUE OF THE EXEMPTION AFFORDED DRIL	, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS ND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS SERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO ND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, LING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED ODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.
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☐ Tank Bottoms	Contaminated Soil C-117 No.:	
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Other Materials	BS&W Content:	
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Lease Operator/S	hipper/Company		Salty	Hag	
	011	6).			
Lease Name:	Ja / 74	W)0	<del></del>		
Transporter Comp	pany: <u>Seur</u>	ini		Time	10.5 GAMPM
Date: 10-18-0	Vehic	ele No.	7/5 Dage -	Driver	No
Charge To:	101/TY	Person	007		
		TYP	E OF MATER	IAL	James
☐ Produced	Water		Drilling Fluids		Completion Fluids
☐ Tank Bott	oms		Contaminated S	oil 🗌	C-117 No.:
Other Mat	erials		BS&W Content:		
Description	on: 52/4	na .			JETOUT CALLOUT
VOLUME OF MATE	ERIAL		BBLS.	2 ARDS	
JOB TICKET, OPERATOR MATERIAL EXEMPT FR TIME, 40 U.S.C. 6901, ET BY VIRTUE OF THE EXI WITH THE EXPLORATIO  ALSO AS A COND TICKET, TRANSPORTER	EVSHIPPER REPRESEN OM THE RESOURCE, SEQ., THE NM HEAL EMPTION AFFORDED ON, DEVELOPMENT O ITION TO SUNDANCE REPRESENTS AND V	NTS AND CONSER TH AND DRILLIN OR PROD E SERVIC	WARRANTS THAT TE EVATION AND RECOV SAF. CODE 361.001 E' NG FLUIDS, PRODUCI OUCTION OF CRUDE O CES, INC.'S ACCEPTAL TS THAT ONLY THE N	HE WASTE MATERY ACT OF 19 IF SEQ., AND REED WATERS, AND OR NATURATE OF THE MEMATERIAL DEL	ALS SHIPPED WITH THIS CERIAL SHIPPED HEREWITH IS O76, AS AMENDED FROM TIME TO EGULATIONS RELATED THERETO, ND OTHER WASTE ASSOCIATED AL GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB LIVERED BY OPERATOR/SHIPPER TO S FACILITY FOR DISPOSAL.
Statement at the abo	ve described locat	tion, and	d that it was tende	red by the ab	represented by this Transporter pove described shipper. This will material was delivered without
DRIVER: 106	0000	S			
			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	ada waa ca aha waa ka ahaa ahaa ahaa ahaa ahaa ah	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
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Ticket # 099369
Lease Operator/Shipper/Company:
50/4, 000
Lease Name: Salty 109
Transporter Company: Gemin Time // SAM/PM
Date: 10-18-08 Vehicle No. 312 Driver No.
E/4 Dac
Charge To:
TYPE OF MATERIAL James
☐ Produced Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms ☐ Contaminated Soil ☐ C-117 No.:
☐ Other Materials ☐ BS&W Content:
☐ JETOUT ☐ CALLOUT
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DLUME OF MATERIAL BBLS. YARDS
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
DRIVER: VOIDA
FACILITY REPRESENTATIVE:

		J 1		Ticket # U	998/1
Lease O	perator/Shipper/Compa	ny: Ja / f	y Dog	)	
Lease N	ame: Salty	Daci	1 /		
	\ / ·	MA	7:	me	(2)
Transpo	rter Company: 左 🧴	7/\	11	me	ANI/ PIVI
Date: _/	<u>) /8- Q8 vel</u>	nicle No. <u>84</u>	D	river No	
Charge *	$C_{1}H_{1}$	)100			
Charge					<i>S</i>
		TYPE OF M	IATERIAL	Jame	5
	Produced Water	Drilling	Fluids	☐ Completion	Fluids
П	Tank Bottoms	Contam	inated Soil	☐ C-117 No.:	
	Other Materials	☐ BS&W (	Content:		
	11			☐ JETOUT	
	Description: Salt			☐ CALLOUT	
	Seat of				
/OLUME	OF MATERIAL	BBLS.	12	ARDS	
	CONDITION TO SUNDANCE SI C, OPERATOR/SHIPPER REPRES	·			
	EXEMPT FROM THE RESOURCE				
	S.C. 6901, ET SEQ., THE NM HE				
	OF THE EXEMPTION AFFORD: EXPLORATION, DEVELOPMEN			•	
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	AS A CONDITION TO SUNDAN ANSPORTER REPRESENTS AN				
-	TER IS NOW DELIVERED BY T				
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	at the above described loc				
certify tha	nt no additional materials				
ncident.					
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	4.		Ticket # 099875
Lease C	perator/Shipper/Comp	pany: R/+y Dog	
Lease N	lame:	Dos	
	orter Company:	· Attrucking	Time //:5/ AM/PM
	(1)	. )	
Date:	10-10-08 V	/ehicle No	Driver No.
Charge	To: 52/14	Nos	
		TYPE OF MATERIAL	Tomes
	Produced Water	☐ Drilling Fluids	☐ Completion Fluids
	Tank Bottoms	Contaminated Soil	☐ C-117 No.:
	Other Materials	BS&W Content:	
	Description:	SE/+	☐ JETOUT ☐ CALLOUT
/OLUM	OF MATERIAL	BBLS. /2	YARDS
JOB TICKE MATERIAI TIME, 40 U BY VIRTUI WITH THE ALS TICKET, TI TRANSPOI  THI Statemen	ET, OPERATOR/SHIPPER REPRESENT FROM THE RESOURTS.C. 6901, ET SEQ., THE NM E OF THE EXEMPTION AFFORE EXPLORATION, DEVELOPM OF AS A CONDITION TO SUND RANSPORTER REPRESENTS ARTER IS NOW DELIVERED BY THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF TH	HEALTH AND SAF. CODE 361.001 ET SEQ. RDED DRILLING FLUIDS, PRODUCED WA ENT OR PRODUCTION OF CRUDE OIL OR DANCE SERVICES, INC.'S ACCEPTANCE O AND WARRANTS THAT ONLY THE MATERY TRANSPORTER TO SUNDANCE SERVICE the above Transporter loaded the molocation, and that it was tendered by	STE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME TO A, AND REGULATIONS RELATED THERETO, ATERS, AND OTHER WASTE ASSOCIATED A NATURAL GAS OR GEOTHERMAL ENERGY.  OF THE MATERIALS SHIPPED WITH THIS JOB RIAL DELIVERED BY OPERATOR/SHIPPER TO
DRIVER:	11//0	<i>j</i> /	
	Humberto Ja	ndova/	
FACILITY	REPRESENTATIVE:		

्राक्षाचे	Ticket # 0998 / /
Lease Operator/Shipper/Compan	y: Jaty lbg
5/4	Ma
Lease Name:	- 12:01
Transporter Company:/(/	Flowing Time 12:01 AM/PM
Date: 10-18-08 Vehi	icle No. Driver No.
C 11. A	O ₂ =
Charge To:	) dej
	TYPE OF MATERIAL Jamile
Produced Water	☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil C-117 No.:
Other Materials	BS&W Content:
	/ JETOUT
Description:	☐ CALLOUT
VOLUME OF MATERIAL	BBLS. // ARDS
	RVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS
	ENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS E, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEA	ALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO,
	ED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED
WITH THE EXPLORATION, DEVELOPMENT	OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY
	CE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB
	WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY TR	RANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the	above Transporter loaded the material represented by this Transporte
	ation, and that it was tendered by the above described shipper. This wil
	were added to this load, and that the material was delivered without
incident.	
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DRIVER: 10 / 1	
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FACILITY REPRESENTATIVE:	

			71		Ticket # 099847
Lease C	perator/Shipper/Company	:	TION		
Lease N	lame: Salty	Da	e		
	orter Company:	LA Colo	0 7 T	ime	8:35 AMPM
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<b>55</b> -		<b>T</b> \/D	- OF MATERIAL		
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	Tank Bottoms	[A]	Contaminated Soil	L	C-117 No.:
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	Description:				CALLOUT
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	ET, OPERATOR/SHIPPER REPRESE LEXEMPT FROM THE RESOURCE,				
	J.S.C. 6901, ET SEQ., THE NM HEAI				
	E OF THE EXEMPTION AFFORDED				
WITH THE	EXPLORATION, DEVELOPMENT	OR PROD	UCTION OF CRUDE OIL OR	NATURA	L GAS OR GEOTHERMAL ENERGY.
ALS	O AS A CONDITION TO SUNDANC	E SERVIC	ES, INC.'S ACCEPTANCE OF	THE MA	ATERIALS SHIPPED WITH THIS JOB
			•		VERED BY OPERATOR/SHIPPER TO
TRANSPO	RTER IS NOW DELIVERED BY TRA	ANSPORT	ER TO SUNDANCE SERVICE	S, INC.'S	FACILITY FOR DISPOSAL.
TH	IS WILL CERTIFY that the a	ahove Tr	ansporter loaded the m	aterial i	represented by this Transporter
					ove described shipper. This will
					material was delivered without
incident.					
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DRIVER:	147)				· Navasana · Navas
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FACILITY	REPRESENTATIVE:	-		Andrea with the second	

					Ticket # 099803
Lease C	perator/Shipper/Com	pany:	alty loa		Dames
Lease N	lame: Scity C	ica	<u> </u>		
	orter Company: $\cancel{4}e$	mini		_Time	S&S_AMPM
Date: //	9-11-08	Vehicle No.	312	Driver N	No. 312
Charge					
		TYP	E OF MATERIA	L	
	Produced Water	П	Drilling Fluids	ΓΊ	Completion Fluids
	Tank Bottoms		Contaminated Soil		C-117 No.:
لبا	Talik Bottoms		Contaminated Con		
	Other Materials		BS&W Content:		•
	Description:				JETOUT CALLOUT
LUMI	E OF MATERIAL		BBLS. /2.	YARDS	
JOB TICKE MATERIAL TIME, 40 U BY VIRTUE WITH THE ALS TICKET, TE TRANSPOE	L EXEMPT FROM THE RESC U.S.C. 6901, ET SEQ., THE NM E OF THE EXEMPTION AFFO EXPLORATION, DEVELOPE O AS A CONDITION TO SUN RANSPORTER REPRESENTS RITER IS NOW DELIVERED IN U.S. WILL CERTIFY that It at the above described	PRESENTS AND PURCE, CONSER M HEALTH AND ORDED DRILLI MENT OR PROD DANCE SERVICE S AND WARRAN BY TRANSPORT At the above T d location, an	WARRANTS THAT THE VERVATION AND RECOVERY SAF. CODE 361.001 ET SENG FLUIDS, PRODUCED VOLCTION OF CRUDE OIL CES, INC.'S ACCEPTANCE ITS THAT ONLY THE MAINER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER TO SUNDANCE SERVER SUNDANCE SERVER SUNDANCE SERVER SUNDANCE SERVER SUNDANCE SERVER SUNDANCE SERVER SUNDANC	VASTE MATI Y ACT OF 19 EQ., AND RE WATERS, AN OR NATURA E OF THE MATERIAL DELL ICES, INC. 'S TO material I by the abo	ALS SHIPPED WITH THIS ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, ID OTHER WASTE ASSOCIATED IL GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO IF FACILITY FOR DISPOSAL.  Trepresented by this Transporter ove described shipper. This will material was delivered without
EA OH ITV	REPRESENTATIVE:	Al Lon	inora		- S.J. 1986.

		Ticket # 099793
Lease Operator/Shipper/Compa	ny: Duty Dog	James
Lease Name: Salty dog		
Transporter Company: 210	Trano.	Time AM/PM /
Date: 10-17-0%	hicle No. 544	Driver No. 544
Charge To:		
Charge To.		
	TYPE OF MATERIA	AL
☐ Produced Water	Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soi	il
_		_
Other Materials	BS&W Content:	
		☐ JETOUT
Description:		☐ CALLOUT
	• • • • • • • • • • • • • • • • • • • •	
VOLUME OF MATERIAL	BBLS.	YARDS
AS A CONDITION TO SUNDANCE &	ERVICES, INC.'S ACCEPTANCE OF	THE MATERIALS SHIPPED WITH THIS
		E WASTE MATERIAL SHIPPED HEREWITH IS RY ACT OF 1976, AS AMENDED FROM TIME TO
	1.75	SEQ., AND REGULATIONS RELATED THERETO,
		O WATERS, AND OTHER WASTE ASSOCIATED L OR NATURAL GAS OR GEOTHERMAL ENERGY.
		CE OF THE MATERIALS SHIPPED WITH THIS JOB ATERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY T	*,.	
THIS WILL CERTIFY that the	e ahove Transporter loaded ti	he material represented by this Transporter
Statement at the above described lo	cation, and that it was tendere	ed by the above described shipper. This will
certify that no additional materials incident.	were added to this load, an	nd that the material was delivered without
incident.		
DRIVER:	)	
A		
FACILITY REPRESENTATIVE:	! Cspining	

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~	Ticket #	997,85
Lease Operator/Shipper/Con	ıpany:	Ity Doc	1	- Aame
Lease Name: Sal+		· ·	J	
Transporter Company:	Im You	rkinn	Time 3:54	AM/PM
10 0 0d	1		$\sim$	
Date: / UT   CV	_Vehicle No	)	Driver No.	1
Charge To:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	TYPE C	F MATERIA	L	
☐ Produced Water	☐ Dr	illing Fluids	☐ Completion	Fluids
☐ Tank Bottoms	<u></u>	ontaminated Soil	☐ C-117 No.:	
Other Materials	Bs	S&W Content:		
Description: <	d		JETOUT  CALLOUT	
VOLUME OF MATERIAL	ВВІ	LS. 12	ARDS	
AS A CONDITION TO SUNDANCE TO BY TICKET, OPERATOR/SHIPPER REPORTED AS A CONDITION THE RESOLUTION OF THE EXEMPTION AFFORM THE EXPLORATION, DEVELOPM ALSO AS A CONDITION TO SUNTICKET, TRANSPORTER REPRESENTS TRANSPORTER IS NOW DELIVERED FOR THIS WILL CERTIFY than	PRESENTS AND WAR PURCE, CONSERVATION HEALTH AND SAF. DRIDED DRILLING FIT MENT OR PRODUCTION DANCE SERVICES, IT S AND WARRANTS TO BY TRANSPORTER TO THE ABOVE Transport	RANTS THAT THE WON AND RECOVERY CODE 361.001 ET SE LUIDS, PRODUCED WON OF CRUDE OIL ONC.'S ACCEPTANCE HAT ONLY THE MAT OS UNDANCE SERVICE CONTER LOADER TO SUNDANCE SERVICE CONTER LOADER TO SUNDANCE SERVICE CONTER LOADER THE MAT CONTER LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER THE LOADER	VASTE MATERIAL SHIPPED ACT OF 1976, AS AMENDE Q., AND REGULATIONS REVATERS, AND OTHER WASTOR NATURAL GAS OR GEO OF THE MATERIALS SHIPPERIAL DELIVERED BY OPECES, INC.'S FACILITY FOR material represented by	HEREWITH IS D FROM TIME TO LATED THERETO, TE ASSOCIATED OTHERMAL ENERGY. PED WITH THIS JOB ERATOR/SHIPPER TO DISPOSAL.  y this Transporter
Statement at the above described certify that no additional mater ncident.	l location, and tha ials were added i	nt it was tendered to this load, and	by the above described that the material was	shipper. This will delivered without
DRIVER: (Meril)	t all	la		
FACILITY REPRESENTATIVE:	N. Prais	Y 70000		

		Ticket # 100154
Lease Operator/Shipper/Compan	14: Je 14 1039	
Lease Name: Salta Do	39	
Transporter Company:	270_	Time? . 50_ AM/PM)
	2	
Date: <u>/0-20-08</u> Veh	nicle No.	Driver No
Charge To: Le 144 ()09	, <del></del>	
	TYPE OF MATERI	IAL James
Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Sc	oil C-117 No.:
Other Materials	BS&W Content:	
at region.		_ JETOUT
Description: Sa		☐ CALLOUT
VOLUME OF MATERIAL	BBLS.	ARDS
JOB TICKET, OPERATOR/SHIPPER REPRES MATERIAL EXEMPT FROM THE RESOURCE TIME, 40 U.S.C. 6901, ET SEQ., THE NM HE BY VIRTUE OF THE EXEMPTION AFFORDING WITH THE EXPLORATION, DEVELOPMENT ALSO AS A CONDITION TO SUNDANTICKET, TRANSPORTER REPRESENTS AND TRANSPORTER IS NOW DELIVERED BY THE THIS WILL CERTIFY that the Statement at the above described local statement at the above described local statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement at the statement	SENTS AND WARRANTS THAT THE CE, CONSERVATION AND RECOVE ALTH AND SAF. CODE 361.001 ET ED DRILLING FLUIDS, PRODUCE T OR PRODUCTION OF CRUDE ON WARRANTS THAT ONLY THE MEANSPORTER TO SUNDANCE SEE above Transporter loaded to cation, and that it was tendent.	F THE MATERIALS SHIPPED WITH THIS THE WASTE MATERIAL SHIPPED HEREWITH IS THE WASTE MATERIAL SHIPPED HEREWITH IS THE WASTE MATERIAL SHIPPED HEREWITH IS THE SEQ., AND REGULATIONS RELATED THERETO, THE WATERS, AND OTHER WASTE ASSOCIATED THE WATERAL GAS OR GEOTHERMAL ENERGY THE MATERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY OPERATOR/SHIPPER TO SERVICES, INC.'S FACILITY FOR DISPOSAL.  The material represented by this Transported that the material was delivered without and that the material was delivered without
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DRIVER: Ligabilla	Mansales.	
0	00	
FACILITY REPRESENTATIVE:	)(	
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				٨	Ticket # 09	9758
Lease C	perator/Shipper/Com	pany:	u with	dog	- Je	mes
	~ n n		Dan	0	$\bigcirc$	
Lease N	lame:				. 7	
Transpo	orter Company:	24/viv	iU	Time	AM/	PM)
Date:	10-17-08,	Vehicle No	スノス	Driver N	lo.	
Date	Date					
Charge	To: (	A COL		4		
		TYPE	OF MATERI	AL		
	Produced Water		Drilling Fluids		Completion Flu	iids
	Tank Bottoms	R	Contaminated So	il 🗌	C-117 No.:	
	Other Materials	Ē	BS&W Content:			
_		_				
	Description: 50	L L			JETOUT CALLOUT	
VOLUME	OF MATERIAL		BBLS.	2 YARDS		
			·			
l .	. CONDITION TO SUNDANCI T, OPERATOR/SHIPPER REPI					
MATERIAL	EXEMPT FROM THE RESOU	JRCE, CONSERV	ATION AND RECOVE	RY ACT OF 197	6, AS AMENDED FF	ROM TIME TO
	.S.C. 6901, ET SEQ., THE NM E OF THE EXEMPTION AFFO					
	EXPLORATION, DEVELOPM					
AT SC	O AS A CONDITION TO SUNI	DANCE SERVICE	S DIC 'S ACCEDTAN	CE OF THE MA	TEDIAL C CHIDDED	WITH THIS IOD
l	CANSPORTER REPRESENTS					
TRANSPOR	TER IS NOW DELIVERED B	Y TRANSPORTEI	R TO SUNDANCE SE	RVICES, INC.'S	FACILITY FOR DIS	POSAL.
THI	S WILL CERTIFY that	the above Tra	insporter loaded t	he material r	epresented by th	is Transporter
Statemeni	t at the above described	location, and	that it was tender	ed by the abo	ove described shi	pper. This will
certify the incident.	at no additional materi	als were adde	ed to this load, a	nd that the n	naterial was del	ivered without
тстает.	<u> </u>					
7	10.111	and address of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the				
DRIVER:						
	( )	<u> </u>	10			
FACILITY	REPRESENTATIVE:		-han			
			/			

<u> </u>	Ticket # 100204			
Lease Operator/Shipper/Company:	altable James			
Lease Name:				
Transporter Company:	Time 6.25 AM/PM			
Date: 10-20-0% Vehicle No	Driver No			
Charge To: Salimon				
TYPE OF MATERIAL				
☐ Produced Water ☐	Drilling Fluids Completion Fluids			
☐ Tank Bottoms	Contaminated Soil			
☐ Other Materials ☐	BS&W Content:			
Description:	☐ JETOUT ☐ CALLOUT			
VOLUME OF MATERIAL	BBLS. /6 'ARDS			
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO				
THIS WILL CERTIFY that the above Tra Statement at the above described location, and	ansporter loaded the material represented by this Transporter that it was tendered by the above described shipper. This will the this load, and that the material was delivered without			
DRIVER:				
FACILITY REPRESENTATIVE:	1000 C			

P.O. Box 1737 **★** Eunice, New Mexico 88231 (575) 394-2511

Ticket # Lease Operator/Shipper/Company: Driver No. Vehicle No TYPE OF MATERIAL **Completion Fluids Produced Water Drilling Fluids Contaminated Soil** C-117 No.: **Tank Bottoms BS&W Content:** Other Materials ☐ JETOUT Description: ☐ CALLOUT **VOLUME OF MATERIAL YARDS** BBLS. AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION ARFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THE JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER.TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER:

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Lease C	Operator/Shipper/Co	mpany:	479		
Lease N	406	tex.	MADE V	<u>Juponi</u>	)
Transpo	orter Company:	116/10	À	AM/F	M
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Date:_	MADUL	_Vehicle No		Driver No.	
Charge	To:	C			
	<del></del>	TVDI	- OF MATERIAL		
		IYPI	E OF MATERIAI	_	
	Produced Water		Drilling Fluids	☐ Completion Flui	ds
	Tank Datterns	`—	Contominated Sail	□ C 117 No .	
	Tank Bottoms	1	Contaminated Soil	C-117 No.:	
	Other Materials		BS&W Content:		:
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	Description:	111		☐ JETOUT ☐ CALLOUT	
	Description.	111.		U OALLOO!	
VOLUMI	E OF MATERIAL		BBLS.	ARDS	
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				ACT OF 1976, AS AMENDED FRO	
				Q., AND REGULATIONS RELATE	
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ALS	O AS A CONDITION TO SU	JNDANCE SERVIC	ES, INC.'S ACCEPTANCE	OF THE MATERIALS SHIPPED V	VITH THIS JOB
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TRANSPOF	RTER IS NOW DELIVERED	BY TRANSPORTE	ER TO SUNDANCE SERVI	CES, INC.'S FACILITY FOR DISP	OSAL.
THI	IS WILL CERTIFY th	at the above Tr	ansporter loaded the	material represented by thi	s Transporter
				by the above described ship	
certify th	at no additional mate	erials were add	ed to this load, and	that the material was deli	vered without
incident.					
DBIVER:	Henry WC	1. 1.			
OTHVER:	1. 7 00	Con u			
FACILITY	REPRESENTATIVE		$-D/CD_{\lambda}$		
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		**	0.0	Ticket # 1007	35
Lease C	perator/Shipper/Com	pany:		Jun-	
	talt.	37 1	100/	•	
Lease N	lame:			0.50	
Transpo	orter Company:	1 MM -		_TimeAM/PM	
Date:	() $()$ $()$ $()$ $()$ $()$ $()$ $()$	⋰ Vehicle No	769	Driver No.	
Date	1-10	vernoie ito			
Charge	To:				
	TYPE OF MATERIAL				
	Produced Water		Drilling Fluids	☐ Completion Fluids	
	Tank Bottoms	1	Contaminated Soil	☐ C-117 No.:	
	Other Materials		BS&W Content:		
	Description:	CHE		☐ JETOUT	
L		1			
OLUME	OF MATERIAL		BBLS.	ARDS	
			<u> </u>		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without					
incident.					
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DRÎVER:	May will	Son a			
FACILITY DEDDECENTATIVE					

		V	`	Ticket# 100304
1 0250	perator/Shipper/Co	mnany:	X16:	Jum
Lease C	peratorismpperiod	mpany.		
Lease N	lame:			
	orter Company:	Mia		_TimeAM/PM
110110	0 21100		oming year	MIC
Date:	D:571.0X	Vehicle No	1661	Driver No.
Charge	To:			
		TYPE	OF MATERIA	<b>NL</b>
	Produced Water		Drilling Fluids	Completion Fluids
	Tank Bottoms		Contaminated Soil	☐ C-117 No.:
	Other Materials		BS&W Content:	A
الأطبعي :	Description:	0 50	22	☐ JETOUT☐ CALLOUT
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VOLUME	OF MATERIAL		BBLS.	YARDS ************************************
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				WASTE MATERIAL SHIPPED HEREWITH IS
				Y ACT OF 1976, AS AMENDED FROM TIME TO
				EQ., AND REGULATIONS RELATED THERETO,
				WATERS, AND OTHER WASTE ASSOCIATED OR NATURAL GAS OR GEOTHERMAL ENERGY.
WIIHIHE	EXPLORATION, DEVELO	DPMENT OR PROD	UCTION OF CRODE OIL	OR NATURAL GAS ON GEOTHERWAL ENERGY.
ALS	O AS A CONDITION TO S	INDANCE SERVIC	FS INC 'S ACCEPTANC	E OF THE MATERIALS SHIPPED WITH THIS JOB
				TERIAL DELIVERED BY OPERATOR/SHIPPER TO
				VICES, INC.'S FACILITY FOR DISPOSAL.
THI	IS WILL CERTIFY th	hat the above Tr	ansporter loaded th	e material represented by this Transporter
				d by the above described shipper. This will
				d that the material was delivered without
incident.		er talle trere dele	cor to mis rous, and	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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DRIVER:	Herry WS	Sepe	· · · · · · · · · · · · · · · · · · ·	
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FACILITY	REPRESENTATIVE:	T UC	00/0	

					TICKEL#	10113.
Lease C	perator/Shipper/Comp	any: Z	٧		<i>A</i> 1	gun
Lease N	Lease Name: Salty Dog Despos					
Transpo	Transporter Company:					
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Date:	<u>10-23                                    </u>	ehicle No. <u> </u>	<u> 7</u> Di	river N	lo	
Charge	To: <u> </u>				nia va	
		TYPE OF I	MATERIAL			
	Produced Water	☐ Drilling	Fluids		Completion F	luids
	Tank Bottoms	Contar	ninated Soil		C-117 No.:	
	Other Materials	☐ BS&W	Content:		•	
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	E OF THE EXEMPTION AFFOR EXPLORATION, DEVELOPME					
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	t at the above described le					
certify th incident.	at no additional material	ls were added to th	is load, and tha	t the n	naterial was d	elivered without
metaem.						
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DRIVER:	WE WE	Epe				
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FACILITY	REPRESENTATIVE:	la total	0-			

			$\Delta$		Ticket # 100291
Lease C	perator/Shippe	er/Company:	AU		- terra
Loose M	lama:	Sutter	MAY	V 1 )()	$\Box \mathcal{O}(\mathcal{O}(\mathcal{U}))$
Lease N		7			
Transpo	orter Company:	7/10/		Time	AMIPM
Date:	()-21-	Vehicle No	<b>.</b> 10	Driver	r No
	_ 0	<u></u>			,
Charge	То:	<u> </u>			
		TYI	PE OF MA	ATERIAL	
	Produced Water	er 🗌	Drilling F	luids	Completion Fluids
	Tank Bottoms	Æ	Contamir	nated Soil	C-117 No.:
	Other Materials		BS&W Co	ontent:	
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VOLUME	OF MATERIA	_	BBLS.	) S YARDS	S
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JOB TICKE MATERIAL TIME, 40 U BY VIRTUE WITH THE ALSO TICKET, TR	T, OPERATOR/SHIP EXEMPT FROM TH S.C. 6901, ET SEQ., OF THE EXEMPTIC EXPLORATION, DE O AS A CONDITION RANSPORTER REPR	PER REPRESENTS AN IE RESOURCE, CONSI THE NM HEALTH AN ON AFFORDED DRILL IVELOPMENT OR PRO TO SUNDANCE SERV ESENTS AND WARRA	ID WARRANTS ERVATION AND ID SAF. CODE 36 LING FLUIDS, P DDUCTION OF C VICES, INC.'S AC ANTS THAT ONI	THAT THE WASTE MAD RECOVERY ACT OF 161.001 ET SEQ., AND RECOUCED WATERS, ACRUDE OIL OR NATURE CEPTANCE OF THE MAY THE MATERIAL DE	RIALS SHIPPED WITH THIS ATERIAL SHIPPED HEREWITH IS 1976, AS AMENDED FROM TIME TO REGULATIONS RELATED THERETO, AND OTHER WASTE ASSOCIATED RAL GAS OR GEOTHERMAL ENERGY.  MATERIALS SHIPPED WITH THIS JOB ELIVERED BY OPERATOR/SHIPPER TO AND STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD
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ORIVER: _	Hung	WSlage		, pt 1	
FACILITY	REDRESENTATI	VE.	00	TG	

	$\cap$	Ticket# 100268
Lease Operator/Shipper/Con	npany:	-100
Lease Name:	Ltcy Who	Mus Jena (
Transporter Company:	MO	_TimeAM/PM
Date: 0-21-08	_Vehicle No	Driver No.
Charge To:		
	TYPE OF MATERIA	L
Produced Water	☐ Drilling Fluids	Completion Fluids
Tank Bottoms	Contaminated Soil	C-117 No.:
Other Materials	BS&W Content:	
Description:	CO AND NIN	JETOUT  CALLOUT
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VOLUME OF MATERIAL	BBLS.	YARDS
AS A CONDITION TO SUNDANG	CE SERVICES, INC.'S ACCEPTANCE OF TI	HE MATERIALS SHIPPED WITH THIS
•		WASTE MATERIAL SHIPPED HEREWITH IS Y ACT OF 1976, AS AMENDED FROM TIME TO
		EQ., AND REGULATIONS RELATED THERETO,
		WATERS, AND OTHER WASTE ASSOCIATED
WITH THE EXPLORATION, DEVELOP	MENT OR PRODUCTION OF CRUDE OIL	OR NATURAL GAS OR GEOTHERMAL ENERGY
ALSO AS A CONDITION TO SUR	NDANCE SERVICES, INC.'S ACCEPTANCE	E OF THE MATERIALS SHIPPED WITH THIS JOB
		TERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED	BY TRANSPORTER TO SUNDANCE SERV	TICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CEPTIEV tha	et the above Transmouter I adad the	
Statement at the above described	t the above Transporter todded the d location, and that it was tendered	e material represented by this Transported I by the above described shipper. This wil
certify that no additional mater	rials were added to this load, and	that the material was delivered withou
incident.		
DRIVER: He US	Pre-	
FACILITY REPRESENTATIVE:	$\rightarrow$ $\downarrow$	

		Ticket # 100195		
Lease Operator/Shipper/Company	" Jaky LUP	- James		
Lease Name: South due	m			
Transporter Company:	mams.	Time (0:07 AM/PM)		
Date: 10.20.00 Vehi	cle No. 769	Driver No. <u>7/09</u>		
Charge To: Soulton all	Lance Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the			
TYPE OF MATERIAL				
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids		
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:		
Other Materials	BS&W Content:			
Description:		☐ JETOUT ☐ CALLOUT		
VOLUME OF MATERIAL	BBLS.	YARDS		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials was added to this load, and that the protection of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta				
certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:				
FACILITY REPRESENTATIVE:	INDILIONA-			

P.O. Box 1737 ★ Eunice, New Mexico 88231 (575) 394-2511

Ticket # Lease Operator/Shipper/Company: Transporter Company: **Driver No** Vehicle No. Charge To: TYPE OF MATERIAL **Drilling Fluids** Completion Fluids **Produced Water** Contaminated Soil **Tank Bottoms** C-117 No.: Other Materials **BS&W Content:** ☐ JETOUT ☐ CALLOUT Description: **OLUME OF MATERIAL YARDS** BBLS. AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described lőcation, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. FACILITY REPRESENTATIVE

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Lease Operator/Shipper/Com	pany: Sa 144	Dog '		
Lease Name:	Dog '			
Transporter Company:	a	Time	2.42 AM/PM	
Date: 10-20-08 Charge To: 50-14-08	Vehicle No. 7 69	Driver	No	
	TYPE OF MA	TERIAL J	one 5	
☐ Produced Water	Drilling Flu	uids 🗌	Completion Fluids	
☐ Tank Bottoms	Contamina	nted Soil	C-117 No.:	
Other Materials	BS&W Cor	ntent:		
Description:			JETOUT CALLOUT	
VOLUME OF MATERIAL	BBLS.	/S YARDS		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.				
THIS WILL CERTIFY that Statement at the above described certify that no additional materi incident.	location, and that it was	tendered by the ab		
DRIVER: (W)	ge -			

	211 0	Ticket # 10005			
Lease Operator/Shipper/Company	y: elfy Dog				
Lease Name: Salty Di	COL				
10. C// C)					
Transporter Company:		Time // Apa/PW			
Date: 1020-08 Vehi	cle No	Driver No.			
Charge To: Salty One					
	TVDE OF MATERIAL	<i>T</i>			
	TYPE OF MATERIAL	- Janes			
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids			
☐ Tank Bottoms	☐ Contaminated Soil	☐ C-117 No.:			
☐ Other Materials	☐ BS&W Content:	·			
Description: Sa //		☐ JETOUT ☐ CALLOUT			
OLUME OF MATERIAL	BBLS. 15_	ARDS			
, vk		•			
JOB TICKET, OPERATOR/SHIPPER REPRESE MATERIAL EXEMPT FROM THE RESOURCE TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEA	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED				
	WARRANTS THAT ONLY THE MATE	OF THE MATERIALS SHIPPED WITH THIS JOB ERIAL DELIVERED BY OPERATOR/SHIPPER TO CES, INC.'S FACILITY FOR DISPOSAL.			
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.					
	1				
DRIVER: W.S.	lase				
· ·					
FACILITY REPRESENTATIVE:					

wat to		Ticket # 100095
Lease Operator/Shipper/Compa	iny: Selty Na	9
Lease Name: Salty	009	/
Transporter Company:		Time _/ AM/PM
Date: 10-20-08 Ve	hicle No. 769	_ Driver No
Charge To:	) <u>ag</u>	
	TYPE OF MATERIA	AL Tain S
☐ Produced Water	☐ Drilling Fluids	TameS  ☐ Completion Fluids
☐ Tank Bottoms	Contaminated So	il C-117 No.:
Other Materials	BS&W Content:	
Description: S. /_		☐ JETOUT
Ja 17		
VOLUME OF MATERIAL	BBLS.	5 ARDS
ir.		
JOB TICKET, OPERATOR/SHIPPER REPREMATERIAL EXEMPT FROM THE RESOURGE TIME, 40 U.S.C. 6901, ET SEQ., THE NM HIBY VIRTUE OF THE EXEMPTION AFFORD WITH THE EXPLORATION, DEVELOPMEN ALSO AS A CONDITION TO SUNDA	SENTS AND WARRANTS THAT THE CE, CONSERVATION AND RECOVE EALTH AND SAF. CODE 361.001 ET DED DRILLING FLUIDS, PRODUCEINT OR PRODUCTION OF CRUDE OF INCE SERVICES, INC.'S ACCEPTANG	THE MATERIALS SHIPPED WITH THIS E WASTE MATERIAL SHIPPED HEREWITH IS RY ACT OF 1976, AS AMENDED FROM TIME TO SEQ., AND REGULATIONS RELATED THERETO, D WATERS, AND OTHER WASTE ASSOCIATED IL OR NATURAL GAS OR GEOTHERMAL ENERGY. CE OF THE MATERIALS SHIPPED WITH THIS JOB ATERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY 1		
Statement at the above described lo	catiòn, and that it was tendere	he material represented by this Transporter ed by the above described shipper. This will nd that the material was delivered without
DRIVER: Henry WS	ge -	
EACH ITY DEDDECENTATIVE	the name of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st	Charles and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a

	1 - A	Ticket # 09699
Lease Operator/Shipper/Comp	any: All All	y James
Lease Name: Auty	Dog Bune	
Transporter Company:	XILL , ,	Time ///// AM/PM
Date: 10-16-08 V	ehicle No. 544	Driver No.
Charge To:	Dune Zia	!
J	TYPE OF MATERIAL	•
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	□ Contaminated Soil	☐ C-117 No.:
Other Materials	BS&W Content:	
Description:	Salt-Soil	☐ JETOUT  CALLOUT
LUME OF MATERIAL	BBLS. 16	YARDS
	D.	
JOB TICKET, OPERATOR/SHIPPER REPRIMATERIAL EXEMPT FROM THE RESOULTIME, 40 U.S.C. 6901, ET SEQ., THE NM IBY VIRTUE OF THE EXEMPTION AFFOR WITH THE EXPLORATION, BEVELOPME ALSO AS A CONDITION TO SUND	RCE, CONSERVATION AND RECOVERY A HEALTH AND SAF. CODE 361.001 ET SEQ DED DRILLING FLUIDS, PRODUCED WA ENT OR PRODUCTION OF CRUDE OIL OIL ANCE SERVICES, INC.'S ACCEPTANCE O IND WARRANTS THAT ONLY THE MATE	ASTE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME TO A, AND REGULATIONS RELATED THERETO, ATERS, AND OTHER WASTE ASSOCIATED R NATURAL GAS OR GEOTHERMAL ENERGY. OF THE MATERIALS SHIPPED WITH THIS JOB RIAL DELIVERED BY OPERATOR/SHIPPER TO
Statement at the above described le	ocation, and that it was tendered b	naterial represented by this Transporter by the above described shipper. This will that the material was delivered without
DRIVER: Jane	crett.	
FACILITY REPRESENTATIVE	SOP	

	<u> </u>		Ticket # 100253
Lease Operator/Shipper/Company:_	TICO		· John
talter	N TY	W )(1	one sale
Lease Name:	1		10:00
Transporter Company:		Time	AM/PM
Date: O-21-08 Vehicle	No. 03	Driv	/er No
Charge To:			
~ T	TYPE OF MAT	FERIAL	
Produced Water	Drilling Flu	ids [	Completion Fluids
☐ Tank Bottoms	Contamina	ted Soil	C-117 No.:
Other Materials	BS&W Con	tent:	
- A SA	1	ykr 	対 JETOUT
Description:	LOSE in	OD	CALLOUT
VOLUME OF MATERIAL	BBLS.	) () YAR	DS
AS A CONDITION TO SUNDANCE SERVICE			
JOB TICKET, OPERATOR/SHIPPER REPRESENT:	\ \		
MATERIAL EXEMPT FROM THE RESOURCE, CO			
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH BY VIRTUE OF THE EXEMPTION AFFORDED D			
WITH THE EXPLORATION, DEVELOPMENT OR			
ALSO AS A CONDITION TO SUNDANCE S	SERVICES. INC.'S ACC	EPTANCE OF TH	IE MATERIALS SHIPPED WITH THIS JOB
TICKET, TRANSPORTER REPRESENTS AND WA	,		
TRANSPORTER IS NOW DELIVERED BY TRANS	SPORTER TO SUNDAN	ICE SERVICES, I	NC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the abo	ove Transporter lo	aded the mater	rial represented by this Transporter
Statement at the above described locatio			
certify that no additional materials wer			
incident.			
		× <del></del>	
DRIVER: Leh			
FACILITY REPRESENTATIVE:	MONT	1	

Lu-"	i	¥		Ticket # 099881
Lease (	Operator/Shipper/Com	pany: Salty	105	
Loggo P	Name: Sa/	v Doe		
		5.	Time	12:30 AM/PM
	orter Company: <u>C</u>	1a	IIME	ADDITION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA
Date:	10-18-08	Vehicle No. 630	Driver	No
Charge	- $        -$	Doe		
Charge	10.			
		TYPE OF MA	ATERIAL )	ame S
	Produced Water	Drilling Fl	uids 🗌	Completion Fluids
	Tools Dollars	Cantamin	eted Seil	C-117 No.:
	Tank Bottoms	Contamin	ated Soil	C-117 No
	Other Materials	☐ BS&W Co	ntent:	
				JETOUT
	Description:	/ f		CALLOUT
`LUM	E OF MATERIAL	BBLS.	20 ARDS	
pikit da.				
	A CONDITION TO SUNDANC			ALS SHIPPED WITH THIS ERIAL SHIPPED HEREWITH IS
				776, AS AMENDED FROM TIME TO
				EGULATIONS RELATED THERETO,
				ND OTHER WASTE ASSOCIATED AL GAS OR GEOTHERMAL ENERGY.
		•		
				ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO
	RTER IS NOW DELIVERED B			
TH	IS WILE CERTIFY that	the above Transporter	loaded the material	represented by this Transporter
				pove described shipper. This will
certify th	hat no additional materi			material was delivered without
ncident.				
			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	·
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		Ticket # $099903$
Lease Operator/Shipper/Company	y: Salty 2	200 James
Lease Name:	nacha	0
The control		Time 2:45 AMPM
Transporter Company:	£	Time Alark III
Date: 10-(8-08 Vehi	icle No. <u>030</u>	Driver No.
Charge To:	1 doa	
	TYPE OF MATERIA	<b>\L</b>
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
Other Materials	BS&W Content:	
Description:	上	☐ JETOUT ☐ CALLOUT
	<i>^</i>	
VOLUME OF MATERIAL	BBLS.	) ARDS
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEA BY VIRTUE OF THE EXEMPTION AFFORDER WITH THE EXPLORATION, DEVELOPMENT ALSO AS A CONDITION TO SUNDANCE	ENTS AND WARRANTS THAT THE E, CONSERVATION AND RECOVER LITH AND SAF. CODE 361.001 ET S D DRILLING FLUIDS, PRODUCED OR PRODUCTION OF CRUDE OIL CE SERVICES, INC.'S ACCEPTANCE	
TRANSPORTER IS NOW DELIVERED BY TR		
Statement at the above described loca	ation, and that it was tendered	e material represented by this Transporter d by the above described shipper. This will d that the material was delivered without
7///		
DRIVER:		No
FACILITY REPRESENTATIVE:	211	
FACILITY REPRESENTATIVE:	Jum	

			Ticket # <b>099924</b>
Lease C	perator/Shipper/Comp	pany: Salty d	sa James
Lease N	lame: Salt	y dag	()
Transpo	orter Company:	12	Time
Date:	10-18-08	Vehicle No. <u>63</u>	Driver No.
Charge	To: Salt.	1 dog	
		TYPE OF MATERIA	<b>AL</b>
	Produced Water	☐ Drilling Fluids	Completion Fluids
	Tank Bottoms	Contaminated Soil	☐ C-117 No.:
	Other Materials	BS&W Content:	
	Description:	<u>l</u>	☐ JETOUT ☐ CALLOUT
		700	<b></b>
OLUME	OF MATERIAL	BBLS.	ARDS
OB TICKE  IATERIAL  IME, 40 U  Y VIRTUE  VITH THE  ALSO  ICKET, TE	T, OPERATOR/SHIPPER REPI EXEMPT FROM THE RESOU S.C. 6901, ET SEQ., THE NM E OF THE EXEMPTION AFFO EXPLORATION, DEVELOPM D AS A CONDITION TO SUNI RANSPORTER REPRESENTS.	JRCE, CONSERVATION AND RECOVER HEALTH AND SAF. CODE 361.001 ET S RDED DRILLING FLUIDS, PRODUCED JENT OR PRODUCTION OF CRUDE OIL DANCE SERVICES, INC.'S ACCEPTANC AND WARRANTS THAT ONLY THE MA	THE MATERIALS SHIPPED WITH THIS WASTE MATERIAL SHIPPED HEREWITH IS Y ACT OF 1976, AS AMENDED FROM TIME TO EQ., AND REGULATIONS RELATED THERETO, WATERS, AND OTHER WASTE ASSOCIATED OR NATURAL GAS OR GEOTHERMAL ENERGY E OF THE MATERIALS SHIPPED WITH THIS JOB TERIAL DELIVERED BY OPERATOR/SHIPPER TO VICES, INC.'S FACILITY FOR DISPOSAL.
Statemeni	t at the above described	location, and that it was tendered	e material represented by this Transporte d by the above described shipper. This wil d that the material was delivered withou
RIVER:			
ACILITY	REPRESENTATIVE:	Hlm	
	- Andrews	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	

		Ticket # U99942
Lease Operator/Shipper/Compar	ry: Saltu	dog James
Lease Name: Salt	in doa	U ₁
Transporter Company:	ia	Time Time AM/PM
Date: 10-18-08 Veh	nicle No. <u>48</u> 63	Oriver No.
Charge To:	- doc	
	TYPE OF MATER	ΙΔΙ
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated S	oil C-117 No.:
Other Materials	BS&W Content:	
	`	JETOUT
Description:		CALLOUT
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VOLUME OF MATERIAL	BBLS.	2 O ARDS
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TYPE OF MATERIAL    Produced Water   Drilling Fluids   Completion Fluids     Tank Bottoms   Contaminated Soil   C-117 No.:     Other Materials   BS&W Content:     JETOUT     CALLOUT     Description:   JETOUT   CALLOUT     AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS OB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF, CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will recrify that no additional materials were added to this load, and that the material was delivered without incident.			Ticket # 10006	<u> </u>
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TYPE OF MATERIAL    Produced Water   Drilling Fluids   Completion Fluids     Tank Bottoms   Contaminated Soil   C-117 No.:   Other Materials   BS&W Content:   Description:	Transporter Company:	- /	Carrance Time 11/10 (AM/PM	
TYPE OF MATERIAL    Produced Water				
TYPE OF MATERIAL    Produced Water   Drilling Fluids   Completion Fluids     Tank Bottoms   Contaminated Soil   C-117 No.:     Other Materials   BS&W Content:     JETOUT     CALLOUT     Description:   JETOUT   CALLOUT     AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS OB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF, CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will recrify that no additional materials were added to this load, and that the material was delivered without incident.	Date: 10.20-01 Vehi	cle No.	Driver No	
Produced Water   Drilling Fluids   Completion Fluids     Tank Bottoms   Contaminated Soil   C-117 No.:     Other Materials   BS&W Content:     Description:   JETOUT     CALLOUT     OLUME OF MATERIAL   BBLS.   Z ARDS     AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS OB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361,001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DETLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will recrify that no additional materials were added to this load, and that the material was delivered without incident.	Charge To: Salty Chag			
□ Tank Bottoms □ Contaminated Soil □ C-117 No.: □ Other Materials □ BS&W Content: □ JETOUT □ CALLOUT    Description: □ JETOUT □ CALLOUT    ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   ARDS   AR		TYP	PE OF MATERIAL	
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	Other Materials	☐ BS&W	Content:			
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☐ Tank Bottoms	Contaminated Sc	oil C-117 No.:
Other Materials	BS&W Content:	
Description:		☐ JETOUT ☐ CALLOUT
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DRIVER:		
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FACILITY REPRESENTATIVE:		

	211	Ticket # 100/4
Lease Operator/Shipper/Com	ipany: Sty Pog	
C/1	0-2	
Lease Name:	11	11:40 -)
Transporter Company: 💢	nguilloT	ime //// AM/PM
Date: 10.20-08	Vehicle No. TR 2	Oriver No.
Charge To:	<u> Joe</u>	
	TYPE OF MATERIAL	Jane S
Produced Water	Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
Other Materials	BS&W Content:	
Description: ⊖	m·	☐ JETOUT ☐ CALLOUT
VOLUME OF MATERIAL	BBLS. 12	ARDS
JOB TICKET, OPERATOR/SHIPPER REF MATERIAL EXEMPT FROM THE RESO TIME, 40 U.S.C. 6901, ET SEQ., THE NM BY VIRTUE OF THE EXEMPTION AFFO	TE SERVICES, INC.'S ACCEPTANCE OF THE PRESENTS AND WARRANTS THAT THE WAS DURCE, CONSERVATION AND RECOVERY ACM HEALTH AND SAF. CODE 361.001 ET SEQ., ORDED DRILLING FLUIDS, PRODUCED WAT MENT OR PRODUCTION OF CRUDE OIL OR	TE MATERIAL SHIPPED HEREWITH IS T OF 1976, AS AMENDED FROM TIME TO AND REGULATIONS RELATED THERETO,
TICKET, TRANSPORTER REPRESENTS	IDANCE SERVICES, INC.'S ACCEPTANCE OF S AND WARRANTS THAT ONLY THE MATERI BY TRANSPORTER TO SUNDANCE SERVICE	IAL DELIVERED BY OPERATOR/SHIPPER TO
Statement at the above described certify that no additional mater incident.	l location, and that it was tendered by	aterial represented by this Transporter the above described shipper. This will at the material was delivered without
DRIVER: DL / 24	March Horas	7.50
	TONG S	
FACILITY REPRESENTATIVE:		

· · · · · · · · · · · · · · · · · · ·		Ticket # 1000//
Lease Operator/Shipper/Compa	any: Salty Nog	
Lease Name: Salty D	200	
		Time # 90 AM/PM
Transporter Company:	<u> </u>	Time <i>   - 9 O</i> (AM/PM
Date: 10-20-09 Ve	ehicle No. 20	Driver No.
S // Do		
Charge To: Ja 14 V	7	
	TYPE OF MATERIA	L James
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
Other Materials	BS&W Content:	
		☐ JETOUT
Description: 5 /+		CALLOUT
VOLUME OF MATERIAL	BBLS. 17	YARDS
	1,6	
AS A CONDITION TO SUNDANCE S	SERVICES, INC.'S ACCEPTANCE OF T	HE MATERIALS SHIPPED WITH THIS
		WASTE MATERIAL SHIPPED HEREWITH IS
· · · · · · · · · · · · · · · · · · ·		Y ACT OF 1976, AS AMENDED FROM TIME TO
		EQ., AND REGULATIONS RELATED THERETO,
· · · · · · · · · · · · · · · · · · ·		WATERS, AND OTHER WASTE ASSOCIATED OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A CONDITION TO SUNDA	ANCE SERVICES, INC.'S ACCEPTANCE	E OF THE MATERIALS SHIPPED WITH THIS JOB
		TERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY	TRANSPORTER TO SUNDANCE SERV	VICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that th	ne above Transporter loaded the	e material represented by this Transporter
Statement at the above described lo	ocation, and that it was tendered	l by the above described shipper. This will
		I that the material was delivered without
DRIVER:		
ACILITY REPRESENTATIVE:		

	Ticket # 100047
Lease Operator/Shipper/Company	y: Biyan Ja/ty Obg
Lease Name:	Pog
Transporter Company: Rangui	110 8
Date: 10-20-08 Vehi	cle No. JR 2 Driver No.
Charge To: Sa 1-4 DBC	1
	TYPE OF MATERIAL James
Produced Water	☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms	☐ Contaminated Soil ☐ C-117 No.:
Other Materials	BS&W Content:
Description: 5/4	☐ JETOUT ☐ CALLOUT
VOLUME OF MATERIAL	BBLS. / 2 YARDS
JOB TICKET, OPERATOR/SHIPPER REPRESE MATERIAL EXEMPT FROM THE RESOURCE TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEAD BY VIRTUE OF THE EXEMPTION AFFORDEI WITH THE EXPLORATION, DEVELOPMENT  ALSO AS A CONDITION TO SUNDANCE TICKET, TRANSPORTER REPRESENTS AND TRANSPORTER IS NOW DELIVERED BY TRANSPORTER IS NOW DELIVERED BY TRANSPORTER AT the Constitution of the statement at the above described local certify that no additional materials of the statement at the additional materials of the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and the statement and t	EVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS NTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS , CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO LTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, D DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  CE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO ANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  Cabove Transporter loaded the material represented by this Transporter stion, and that it was tendered by the above described shipper. This will were added to this load, and that the material was delivered without
incident.	<u> </u>
abura de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya	a. 1//
DRIVER: Jose Coung	ele sil o
FACILITY REPRESENTATIVE:	

		Ticket # 100048
Lease Operator/Shipper/Company:	Sally Deg	
Lease Name: Salt Poe	)	
Transporter Company: B& F	Time	9:23 AM)PM
V. 0	nine _	
Date: 10-20-65 Vehicle	No. <u>03</u> Driver	No
Charge To:	0,	
1	YPE OF MATERIAL	Tames
Produced Water	Drilling Fluids	Completion Fluids
☐ Tank Bottoms [	Contaminated Soil	C-117 No.:
Other Materials	BS&W Content:	
Description:		JETOUT CALLOUT
OLUME OF MATERIAL	BBLS. / Z MRDS	
AS A CONDITION TO SUNDANCE SERVIC JOB TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, CO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH BY VIRTUE OF THE EXEMPTION AFFORDED DI WITH THE EXPLORATION, DEVELOPMENT OR	AND WARRANTS THAT THE WASTE MAI INSERVATION AND RECOVERY ACT OF 19 AND SAF. CODE 361.001 ET SEQ., AND RI RILLING FLUIDS, PRODUCED WATERS, AI	TERIAL SHIPPED HEREWITH IS 276, AS AMENDED FROM TIME TO EGULATIONS RELATED THERETO, ND OTHER WASTE ASSOCIATED
ALSO AS A CONDITION TO SUNDANCE S TICKET, TRANSPORTER REPRESENTS AND WAI TRANSPORTER IS NOW DELIVERED BY TRANS	RRANTS THAT ONLY THE MATERIAL DEI	IVERED BY OPERATOR/SHIPPER TO
THIS WILL CERTIFY that the abo Statement at the above described location certify that no additional materials were incident.	, and that it was tendered by the ab	pove described shipper. This will
DRIVER: They Leve		353
FACILITY REPRESENTATIVE:		

	11			Ticket #	<u> 100050                                 </u>
Lease Operator/Shipper/Compan	y: Salty	Dog			
Lease Name:	69				
Transporter Company:	И		ime	9:34	AM/PM
Date: 10-20-08 Vehi	icle No. 04		Driver N	lo	
Charge To: Salty Oog					
	TYPE OF MA	ATERIAL	Je	smes	
Produced Water	☐ Drilling F	luids		Completio	n Fluids
☐ Tank Bottoms	Contami	nated Soil		C-117 No.:	
Other Materials	☐ BS&W C	ontent:			
Description:			_	JETOUT CALLOUT	
OLUME OF MATERIAL	BBLS.	12	YARDS		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.					
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.					
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.					
111	11	/			
DRIVER: filletto (elle					
					and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
FACILITY REPRESENTATIVE:		A CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH			

	211	Ticket # 100051			
Lease Operator/Shipper/Company	y: Jalty 869				
5 A D	ha				
Lease Name:	Jal a	C.05			
		Time _ 2 _ 3 _ (AM)PM			
Date: 10.20.08 Vehi	cle No	Driver No.			
Charge To: Selfy Da	2	•			
Charge 10.					
	TYPE OF MATERIAL	Jones			
Produced Water	☐ Drilling Fluids	☐ Completion Fluids			
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:			
Other Materials	BS&W Content:				
		□ JETOUT			
Description:		CALLOUT			
OLUME OF MATERIAL	BBLS. /2	ARDS			
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.					
DRIVER:					
FACILITY REPRESENTATIVE:					

	- 11	Ticket # 100160
Lease Operator/Shipper/Company	1: Zalty Log	- James
Lease Name: Salty do		
Transporter Company:	STrk.	Time 4.(O_AM/PM
Date: 10-20-08 Vehi	cle No. <u>333</u>	Driver No. 232
Charge To:	SUL	
	TYPE OF MATERIA	L
Produced Water	Drilling Fluids	Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
Other Materials	BS&W Content:	
Description:	-	☐ JETOUT ☐ CALLOUT
'LUME OF MATERIAL	BBLS.	YARDS
- 3 th	1 V	
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEA. BY VIRTUE OF THE EXEMPTION AFFORDEI	NTS AND WARRANTS THAT THE W , CONSERVATION AND RECOVERY LTH AND SAF. CODE 361.001 ET SE D DRILLING FLUIDS, PRODUCED V	ASTE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME TO Q., AND REGULATIONS RELATED THERETO,
	WARRANTS THAT ONLY THE MAT	OF THE MATERIALS SHIPPED WITH THIS JOB ERIAL DELIVERED BY OPERATOR/SHIPPER TO CES, INC.'S FACILITY FOR DISPOSAL.
Statement at the above described loca	tion, and that it was tendered	material represented by this Transporter by the above described shipper. This will that the material was delivered without
DRIVER: mike for	the	
FACILITY REPRESENTATIVE:	Is own on	•

	Ticket # 100083
Lease Operator/Shipper/Company	: Saty Dag
< 11. On	
Lease Name: 2 /+9 10	
Transporter Company:	Time // S (a AM/PM
Date: 10.20-08 Vehic	cle No Driver No
Date: 70 20-08 Vehic	Driver No.
Charge To: \ / \ /	0.9
	TYPE OF MATERIAL Jame 3
☐ Produced Water	☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil C-117 No.:
☐ Other Materials	BS&W Content:
Description:	☐ JETOUT
VOLUME OF MATERIAL	BBLS. / Z-YARDS
JOB TICKET, OPERATOR/SHIPPER REPRESE! MATERIAL EXEMPT FROM THE RESOURCE, TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEAD BY VIRTUE OF THE EXEMPTION AFFORDED WITH THE EXPLORATION, DEVELOPMENT OF ALSO AS A CONDITION TO SUNDANCE TICKET, TRANSPORTER REPRESENTS AND TRANSPORTER IS NOW DELIVERED BY TRANSPORTER IS NOW DELIVERED BY TRANSPORTER AT THIS WILL CERTIFY that the above described local	VICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS NTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO LITH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, DEPLIE OF THE WASTE ASSOCIATED OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  THE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO ANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  The subset of the property of the material represented by this Transporter tion, and that it was tendered by the above described shipper. This will were added to this load, and that the material was delivered without
DRIVER: This Seem	20
6	
FACILITY REPRESENTATIVE:	

Ticket # 099,783
Lease Operator/Shipper/Company:
Lease Name: Scaru Dog
2:11/2
Transporter Company: Temini Time 3:40 AMPM
Date: 10-17-08 Vehicle No. 315 Driver No. 315
Charge To:
TYPE OF MATERIAL
☐ Produced Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms ☐ Contaminated Soil ☐ C-117 No.:
☐ Other Materials ☐ BS&W Content:
Description: Salt Description:
VOLUME OF MATERIAL BBLS. / YARDS
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporte Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
DRIVER: 10(70 COBO)
FACILITY REPRESENTATIVE: 1 LOUNOSCO

		Ticket # 099778
Lease Operator/Shipper/Company	1: Saltu Door	, fames
	2.	\
Lease Name: 20144 GOQ.		
Transporter Company: Lycmi	MI	Time _3:35 AM/PM )
Date: 10-17-56 Vehi	cle No. <u>312</u>	Driver No. 312
Charge To:		
	TYPE OF MATERIA	
	TYPE OF MATERIA	<b>L</b>
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
☐ Other Materials	BS&W Content:	
		- IETOUT
Description:		☐ JETOUT ☐ CALLOUT
Salt-		
VOLUME OF MATERIAL	BBLS.	YARDS
AS A CONDITION TO SUNDANCE SER JOB TICKET, OPERATOR/SHIPPER REPRESE	· ·	· ·
		Y ACT OF 1976, AS AMENDED FROM TIME TO
	·	EQ., AND REGULATIONS RELATED THERETO,
BY VIRTUE OF THE EXEMPTION AFFORDER		-
		OR NATURAL GAS OR GEOTHERMAL ENERGY.
ALSO AS A COMPLETON TO SUBJECT AND	TE CERVICES DIG IS A COERTANG	F OF THE MATERIAL COMBRED WITH THE IOD
		E OF THE MATERIALS SHIPPED WITH THIS JOB TERIAL DELIVERED BY OPERATOR/SHIPPER TO
TRANSPORTER IS NOW DELIVERED BY TRANSPORTER IS NOW DELIVERED BY TRANSPORTER IS NOW DELIVERED BY TRANSPORTER REPRESENTS AND		
TRANSFORTER IS NOW BELIVERED BY TRA	ANSFORTER TO SUNDANCE SERV	vices, inc. 5 Pacient Flor Distrosal.
THIS WILL CERTIFY that the	above Transporter loaded the	e material represented by this Transporter
		d by the above described shipper. This will
		that the material was delivered without
incident.	in the day,	
		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
DRIVER: MILL	$-\mathcal{T}$	
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		
A/-	Colomo	
FACILITY REPRESENTATIVE: ///	DAJIN KIKU	·

Ticket # 099772
Lease Operator/Shipper/Company:
Lease Name: Sattadoor
Transporter Company: 20 Mand Time 30 AM/PM
Date: 10-11-01 Vehicle No. 544 Driver No. 544
Charge To: 216
TYPE OF MATERIAL
☐ Produced Water ☐ Drilling Fluids ☐ Completion Fluids
☐ Tank Bottoms Contaminated Soil ☐ C-117 No.:
Other Materials BS&W Content:
Description:
VOLUME OF MATERIAL BBLS. / ARDS
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
FACILITY REPRESENTATIVE: NONOR CA

# Sundance Services, Inc. P.O. Box 1737 ★ Eunice, New Mexico 88231

(575) 394-2511

p**			0.0	۸	Ticket # 099767	
Lease C	perator/Shipper/Comp	any: 50	Ity	LOQ	James	)
Lease N	lame: Can I A	IN OF	Don	Û	0	
,	orter Company:	iff of	AWG	_Time	1:44_AM/M	
Date:	10-17-08 v	ehicle No	309	Driver N	O	
Charge	- AA	Adr	2 /c			
Onargo		TVDE	OF MATERIA	1		
	•	ITPE	OFWIATERIA	Ļ		
	Produced Water		Drilling Fluids		Completion Fluids	
	Tank Bottoms	æ.	Contaminated Soil		C-117 No.:	
	Other Materials		BS&W Content:			
	Description:	ll		_	JETOUT CALLOUT	
OLUME	OF MATERIAL	В	BBLS.	) ARDS		
12						
JOB TICKE MATERIAL TIME, 40 U BY VIRTUE	EXEMPT FROM THE RESOU S.C. 6901, ET SEQ., THE NM I OF THE EXEMPTION AFFOR	ESENTS AND WARCE, CONSERVA HEALTH AND SA DED DRILLING	ARRANTS THAT THE W ITION AND RECOVERY IF. CODE 361.001 ET SE FLUIDS, PRODUCED W	/ASTE MATE ACT OF 1970 Q., AND REC VATERS, AND	LS SHIPPED WITH THIS RIAL SHIPPED HEREWITH IS 5, AS AMENDED FROM TIME BULATIONS RELATED THERE DOTHER WASTE ASSOCIATED GAS OR GEOTHERMAL ENE	ΓO, )
TICKET, TR		ND WARRANTS	THAT ONLY THE MAT	ERIAL DELIV	TERIALS SHIPPED WITH THIS FERED BY OPERATOR/SHIPPE FACILITY FOR DISPOSAL.	
Statement	at the above described l	ocation, and t	hat it was tendered	by the abo	epresented by this Transp ve described shipper. This naterial was delivered wi	s will
DRIVER:	The late					
FACILITY	REPRESENTATIVE:		blish	/		
		V				

	_	Ticket #	19808
Lease Operator/Shipper/Compa	any: Salty Dog	9	iames
Lease Name: Salty do	2		
Transporter Company:	n Trucking	Time <u> </u>	VPM )
Date: 10-17-0 Ve	ehicle No.	Driver No.	
Charge To:	the same of		
	TYPE OF MATER	RIAL	
☐ Produced Water	☐ Drilling Fluids	☐ Completion F	luids
☐ Tank Bottoms	Contaminated S	Soil C-117 No.:	
☐ Other Materials	BS&W Content	:	
Description:	pas.	☐ JETOUT	
VO. 1115 OF 1145-DIA	10		
VOLUME OF MATERIAL	)	YARDS	
AS A CONDITION TO SUNDANCE S JOB TICKET, OPERATOR/SHIPPER REPRI MATERIAL EXEMPT FROM THE RESOUR TIME, 40 U.S.C. 6901, ET SEQ., THE NM H BY VIRTUE OF THE EXEMPTION AFFOR WITH THE EXPLORATION, DEVELOPME	ESENTS AND WARRANTS THAT T RCE, CONSERVATION AND RECO HEALTH AND SAF. CODE 361.001 I DED DRILLING FLUIDS, PRODUC	VERY ACT OF 1976, AS AMENDED ET SEQ., AND REGULATIONS RELA CED WATERS, AND OTHER WASTE	EREWITH IS FROM TIME TO ATED THERETO, ASSOCIATED
ALSO AS A CONDITION TO SUNDATICKET, TRANSPORTER REPRESENTS ATTRANSPORTER IS NOW DELIVERED BY	ND WARRANTS THAT ONLY THE		ATOR/SHIPPER TO
THIS WILL CERTIFY that the Statement at the above described locertify that no additional material incident.	ocation, and that it was tend	d the material represented by lered by the above described s and that the material was d	hipper. This will
# 4		1000	
DRIVER: Alberta	alla		
FACILITY REPRESENTATIVE:	Isoimma		*4.

		Ticket #_099817
Lease Operator/Shipper/Company	: Dalty Dog	James
A S00	turbo 0	$\mathcal{O}$
Lease Name:	ing read	0:11
Transporter Company:	ia , ,	TimeAM/PM
Date: 10-12-08 Vehic	cle No. 544	Driver No.
Charge To:	~ ) 1 a	
Charge 10.		
	TYPE OF MATERIAL	-
Produced Water	Drilling Fluids	Completion Fluids
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:
Other Materials	BS&W Content:	
7 0 1101 11110111110		
December 1	<	☐ JETOUT
Description:	Salt	CALLOUT
VOLUME OF MATERIAL	BBLS. /Z	ARDS
LS A COMPLETION TO SUR ID ANGE OF IT	LUCES DIG 10 1 COEPTANCE OF THE	E MATERIAL C CHIRDED WITH THE
AS A CONDITION TO SUNDANCE SER JOB TICKET, OPERATOR/SHIPPER REPRESE!		
MATERIAL EXEMPT FROM THE RESOURCE,		
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEAI		
BY VIRTUE OF THE EXEMPTION AFFORDED WITH THE EXPLORATION, DEVELOPMENT		ATERS, AND OTHER WASTE ASSOCIATED IR NATURAL GAS OR GEOTHERMAL ENERGY.
		OF THE MATERIALS SHIPPED WITH THIS JOB
TRANSPORTER IS NOW DELIVERED BY TRA		ERIAL DELIVERED BY OPERATOR/SHIPPER TO CES, INC.'S FACILITY FOR DISPOSAL.
		material represented by this Transporter
		by the above described shipper. This will
incident.	vere aaaea to tnis toaa, ana t	that the material was delivered without
more.		
1/0-		
DRIVER:		
EACILITY DEDDESENTATIVE.	AP .	

		<"\-		T	icket # U998U5
Lease Oper	ator/Shipper/Compan	y: <u></u>	alty Dog		James
Lease Name	e: <u>Salty do</u>	<i>a</i>			
	r Company: 🚊 🤄 m	J.,		_Time _ <u></u>	40_AM/PM
			/) \ /*	-	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa
Date:	Veh	icle No		Driver No.	510
Charge To:	214	,			
		TYPE	OF MATERIA	L	
□ D**	oduced Water		Drilling Fluids		completion Fluids
	oduced water		Dinning Fluids		ompressor i varao
☐ Tai	nk Bottoms	A	Contaminated Soil		:-117 No.:
☐ Oti	her Materials		BS&W Content:		
_				_ IE	TOUT
De	escription:				TOUT ALLOUT
		· · · · · · · · · · · · · · · · · · ·			
 `'OLUME OF	F MATERIAL		BBLS. 12	YARDS	
к'					
	NDITION TO SUNDANCE SE PERATOR/SHIPPER REPRESI	,			
MATERIAL EXE	EMPT FROM THE RESOURCE	E, CONSERV	VATION AND RECOVERY	ACT OF 1976, A	AS AMENDED FROM TIME TO
					LATIONS RELATED THERETO,
					OTHER WASTE ASSOCIATED SAS OR GEOTHERMAL ENERGY.
ALSO AS	A CONDITION TO SUNDAN	CE SERVIC	ES INC'S ACCEPTANCE	OF THE MATE	RIALS SHIPPED WITH THIS JOB
					RED BY OPERATOR/SHIPPER TO
TRANSPORTER	IS NOW DELIVERED BY TE	RANSPORTE	ER TO SUNDANCE SERV	CES, INC.'S FA	CILITY FOR DISPOSAL.
THIS W	VILL CERTIFY that the	above Tra	ansporter loaded the	material rep	resented by this Transporter
					described shipper. This will
certify that n incident.	o additional materials	were add	ed to this load, and	that the mai	terial was delivered without
	110000	Q			
DRIVER:	HUGO COP	0 2			
	ħ:	٨			
FACILITY REI	PRESENTATIVE	PININ	1000		vi w

		( e.je			Ticket # 099726
Lease C	Operator/Shipper/Compan	y: <u></u>	elty De	<u> </u>	James
Lease N	lame: Salty	Da	0	Q	
	orter Company:	ww	<u> </u>	Time _C	:54 AMPM
Date:_	/0-17-08 Veh	icle No.	312	Driver I	No
Charge	To: Saltin	Oa	<b>A</b>		
	J	TYP	E OF MATERIA	<b>\L</b>	
	Produced Water	$\Box$	Drilling Fluids		Completion Fluids
	Tank Bottoms	$\Box$	Contaminated Soi		C-117 No.:
1	Other Materials		BS&W Content:		
N. /	Description: Sal	J			JETOUT CALLOUT
			. \		
VOLUMI	E OF MATERIAL		BBLS.	YARDS	
JOB TICKE MATERIAI TIME, 40 U BY VIRTU	J.S.C. 6901, ET SEQ., THE NM HEA E OF THE EXEMPTION AFFORDE	ENTS AND E, CONSER ALTH AND ED DRILLIN	WARRANTS THAT THE EVATION AND RECOVER SAF. CODE 361.001 ET S NG FLUIDS, PRODUCED	WASTE MAT RY ACT OF 19 SEQ., AND RE WATERS, AN	ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO,
TICKET, T		WARRAN	TS THAT ONLY THE MA	TERIAL DEL	ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO SFACILITY FOR DISPOSAL.
Statemen	t at the above described loc	ation, and	d that it was tendere	d by the ab	represented by this Transporter ove described shipper. This will material was delivered without
DRIVER	Josethin		-		
	( The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the		11	-	:
FACILITY	REPRESENTATIVE:		Thom		\$-
				*	

					Ticket # 09,9727
Lease C	perator/Shipper/C	Company:	elter of	00	James
	^	A. O		0	0
Lease N	lame: <u>Sal</u>				
Transpo	orter Company: _(	Sem	vi	_Time _	1.54 AM)PM
Date:	0-17-08	Vehicle No	315	Driver N	No
Charge	To: 50 t	tu Do	30		
		TYPE	OF MATERIA	L	
	Produced Water		Drilling Fluids		Completion Fluids
	Tank Bottoms		Contaminated Soil		C-117 No.:
#	Other Materials		BS&W Content:		
		0.0		_	JETOUT
	Description:	palt			CALLOUT
VOLUME	OF MATERIAL		BBLS.	> ARDS	
JOB TICKE MATERIAL TIME, 40 U BY VIRTUI WITH THE ALSO TICKET, TH	T, OPERATOR/SHIPPER EXEMPT FROM THE R S.C. 6901, ET SEQ., THE GOF THE EXEMPTION EXPLORATION, DEVEL O AS A CONDITION TO RANSPORTER REPRESE RTER IS NOW DELIVER	REPRESENTS AND RESOURCE, CONSERVE E NM HEALTH AND AFFORDED DRILLIN LOPMENT OR PRODU SUNDANCE SERVICE ENTS AND WARRANT ED BY TRANSPORTI	WARRANTS THAT THE VIDENTIAN AND RECOVERY SAF. CODE 361.001 ET SEG FLUIDS, PRODUCED VIDENTIAN OF CRUDE OIL  ES, INC.'S ACCEPTANCE IS THAT ONLY THE MATER TO SUNDANCE SERVERS	VASTE MATI ACT OF 19' EQ., AND RE- WATERS, AN OR NATURA E OF THE MA EERIAL DELI ICES, INC.'S	ALS SHIPPED WITH THIS ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED L GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL.
Statemen	t at the above descr	ibed location, and	l that it was tenderea	by the abo	represented by this Transporter ove described shipper. This will naterial was delivered withou
DRIVER:	HUGO (	COBOS	0		
FACILITY	REPRESENTATIVE		Llin		
			/		

		Ticket # 09/9728
Lease Operator/Shipper/Compa	any: Salty D	og James
Lease Name: Salt	y Dog	0
Transporter Company:	inen -	
Date: 10-17-08 Ve	ehicle No.	Driver No.
Charge To: Saltu	1Dog	
	TYPE OF MATERIAL	
☐ Produced Water	☐ Drilling Fluids	Completion Fluids
☐ Tank Bottoms	Contaminated Soil	C-117 No.:
Other Materials	BS&W Content:	
Description: 50	lt	☐ JETOUT ☐ CALLOUT
VOLUME OF MATERIAL	BBLS. 17	ARDS
JOB TICKET, OPERATOR/SHIPPER REPREMATERIAL EXEMPT FROM THE RESOUR TIME, 40 U.S.C. 6901, ET SEQ., THE NM H BY VIRTUE OF THE EXEMPTION AFFORI WITH THE EXPLORATION, DEVELOPMENT ALSO AS A CONDITION TO SUNDATICKET, TRANSPORTER REPRESENTS AND TRANSPORTER IS NOW DELIVERED BY THIS WILL CERTIFY that the Statement at the above described locertify that no additional material incident.	ECE, CONSERVATION AND RECOVERY EALTH AND SAF. CODE 361.001 ET SECONDED DRILLING FLUIDS, PRODUCED WITH OR PRODUCTION OF CRUDE OIL CANCE SERVICES, INC.'S ACCEPTANCE NO WARRANTS THAT ONLY THE MATE TRANSPORTER TO SUNDANCE SERVICES above Transporter loaded the ocation, and that it was tendered	ASTE MATERIAL SHIPPED HEREWITH IS ACT OF 1976, AS AMENDED FROM TIME TO Q., AND REGULATIONS RELATED THERETO, WATERS, AND OTHER WASTE ASSOCIATED DR NATURAL GAS OR GEOTHERMAL ENERGY.  OF THE MATERIALS SHIPPED WITH THIS JOB ERIAL DELIVERED BY OPERATOR/SHIPPER TO
DRIVER: James M.	Mark 1	
FACILITY REPRESENTATIVE:	- Alex	
name of the second		

		Ticket # Ú9	9129			
Lease Operator/Shipper/Company	y: Salty d	log go	mes			
Lease Name:	I Drinks	Joseph Doj By	The			
Transporter Company: <u>E-X.</u>		Time	РМ			
Date: 10-17-08 Vehi	Date: 10-17-08 Vehicle No. 04 Driver No.					
Charge To:	Dog					
7	TYPE OF MATER	RIAL				
Produced Water	Drilling Fluids	☐ Completion Flu	ids			
☐ Tank Bottoms	☐ Contaminated S	Soil C-117 No.:				
Other Materials	BS&W Content:	:				
Description: Sa	H	☐ JETOUT ☐ CALLOUT				
		1 -				
VOLUME OF MATERIAL	BBLS.	ARDS				
JOB TICKET, OPERATOR/SHIPPER REPRESE MATERIAL EXEMPT FROM THE RESOURCE TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEA BY VIRTUE OF THE EXEMPTION AFFORDEI	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.					
ALSO AS A CONDITION TO SUNDANC TICKET, TRANSPORTER REPRESENTS AND TRANSPORTER IS NOW DELIVERED BY TR.	WARRANTS THAT ONLY THE	MATERIAL DELIVERED BY OPERAT	OR/SHIPPER TO			
THIS WILL CERTIFY that the c Statement at the above described loca certify that no additional materials v incident.	ition, and that it was tende	ered by the above described ship	pper. This will			
1/1	-1/					
DRIVER: (Mark)	Ma					
EACH ITY DEDDECENTATIVE	211					
FACILITY REPRESENTATIVE:	- fun					

					Ticket # 099732	
Lease Op	erator/Shipper/0	Company: <u></u>	elly De	ia —	James	
Lease Name: 50 ltu Doa						
	ter Company: _	700 1	PANEMIN	Time /	0:50 (AM)PM	
Italisport	er Company				<u> </u>	
Date:_//	)-17-0.	Vehicle No	544	Driver i	No	
Charge To	o: Sa l-1	tin De	20			
		TYPE	OF MATERIA	\L		
	Produced Water		Drilling Fluids		Completion Fluids	
_	Faul Dattana	/	Onethersiseted Call		C 117 No .	
<u> </u>	Tank Bottoms	<del>U</del>	Contaminated Soil		C-117 No.:	
	Other Materials	, <b></b>	BS&W Content:			
		, /			JETOUT	
	Description:	alt			CALLOUT	
VOLUME	OF MATERIAL		BBLS.	ARDS		
JOB TICKET, MATERIAL E TIME, 40 U.S. BY VIRTUE C WITH THE E TICKET, TRA TRANSPORTI  THIS Statement of	OPERATOR/SHIPPER XEMPT FROM THE D C. 6901, ET SEQ., TH OF THE EXEMPTION XPLORATION, DEVE AS A CONDITION TO INSPORTER REPRES ER IS NOW DELIVER WILL CERTIFY Int the above descri	R REPRESENTS AND VICESOURCE, CONSERVE NM HEALTH AND SEATH OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T	WARRANTS THAT THE VATION AND RECOVER SAF. 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FACILITY R	EPRESENTATIVE		10			
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			Tio	cket # 099742
Lease Operator/Shipp	per/Company:	ialty 10	100g	James
Lease Name:	eltur	dog	0	Ü
Transporter Company	1: Yarre	$\sim$	Time //	. OO AMYPM
Date: 10-17-	Vehicle No.	02	Driver No.	
Charge To:	Itin e	too		
	TYP	E OF MATERIA		·
☐ Produced Wat	ter 🗀	Drilling Fluids	□ <b>c</b> c	empletion Fluids
☐ Tank Bottoms	<b>A</b>	Contaminated Soil	□ c-	117 No.:
☐ Other Materia	ls 🗀	BS&W Content:		
Description:	salt			OUT LOUT
VOLUME OF MATERIA	AL.	BBLS. 12	YARDS	
JOB TICKET, OPERATOR/SHI MATERIAL EXEMPT FROM T TIME, 40 U.S.C. 6901, ET SEQ BY VIRTUE OF THE EXEMPT WITH THE EXPLORATION, E  ALSO AS A CONDITION TICKET, TRANSPORTER REP TRANSPORTER IS NOW DEL  THIS WILL CERT Statement at the above de	PPER REPRESENTS AND THE RESOURCE, CONSER THE NM HEALTH AND TION AFFORDED DRILLIN DEVELOPMENT OR PROD TO SUNDANCE SERVICE PRESENTS AND WARRAN IVERED BY TRANSPORT THE STATE OF THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE THE SERVICE	EVATION AND RECOVERY SAF. CODE 361.001 ET SE NG FLUIDS, PRODUCED VOLCTION OF CRUDE OIL CES, INC.'S ACCEPTANCE TS THAT ONLY THE MATER TO SUNDANCE SERVI	ASTE MATERIA ACT OF 1976, AS Q., AND REGULA VATERS, AND OT DR NATURAL GA OF THE MATER ERIAL DELIVER CES, INC.'S FAC material repro	L SHIPPED HEREWITH IS S AMENDED FROM TIME TO ATIONS RELATED THERETO, THER WASTE ASSOCIATED AS OR GEOTHERMAL ENERGY.  MALS SHIPPED WITH THIS JOB ED BY OPERATOR/SHIPPER TO
DRIVER:	74, 16 G	11.		
		y war		

		0	a	Ticket # 099/40
Lease O	perator/Shipper/Com	pany: Salty	do	- James
Lease N	ame: Solt	ndoa	0	U
	orter Company:	emini -	Time _/	1.50 AMPM
Date:	0-17-08	Vehicle No. $315$	Driver	No
Charge	To: Salt	uclos		
		TYPE OF MAT	ERIAL	
	Produced Water	☐ Drilling Flui	ds 🗌	Completion Fluids
. 🗀	Tank Bottoms	Contaminat	ed Soil	C-117 No.:
	Other Materials	☐ BS&W Cont	ent:	
	Description:	<u>l</u>		JETOUT CALLOUT
VOLUME	OF MATERIAL	BBLS.	12 ARDS	
JOB TICKE MATERIAL TIME, 40 U BY VIRTUE WITH THE ALSO TICKET, TE	T, OPERATOR/SHIPPER REP EXEMPT FROM THE RESOI .S.C. 6901, ET SEQ., THE NM E OF THE EXEMPTION AFFO EXPLORATION, DEVELOPM D AS A CONDITION TO SUNI RANSPORTER REPRESENTS	URCE, CONSERVATION AND RI HEALTH AND SAF. CODE 361. PROED DRILLING FLUIDS, PRO IENT OR PRODUCTION OF CRI DANCE SERVICES, INC.'S ACC	AT THE WASTE MAT ECOVERY ACT OF 19 001 ET SEQ., AND RE DUCED WATERS, AN JDE OIL OR NATURA EPTANCE OF THE M THE MATERIAL DEL	TERIAL SHIPPED HEREWITH IS 176, AS AMENDED FROM TIME TO EGULATIONS RELATED THERETO, ND OTHER WASTE ASSOCIATED AL GAS OR GEOTHERMAL ENERGY.  ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO
Statemeni	t at the above described	location, and that it was t	endered by the ab	represented by this Transporter ove described shipper. This will material was delivered without
DRIVER:	HUGO (0)	2 06		-
FACILITY	REPRESENTATIVE:	Olla		
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					Ticket # 1099/39
Lease C	perator/Shipper/Co	mpany:	altyd	60	James
Lease N	lame:	2 put	)0a -	<u> </u>	<u> </u>
Transpo	orter Company:	eski	ni ⁰	_Time/	1:46 AMPM
Date:_/	0-17-08	_Vehicle No.	312	Driver I	No
Charge	To: 50 11	indo	0		
		ТҮР	E OF MATERIA	<u> </u>	
	Produced Water		Drilling Fluids		Completion Fluids
	Tank Bottoms	X	Contaminated Soil		C-117 No.:
	Other Materials		BS&W Content:		
	Description:	alt		_	JETOUT CALLOUT
VOLUME	OF MATERIAL		BBLS.	ARDS	
IOB TICKE MATERIAL FIME, 40 U BY VIRTUI WITH THE ALSO FICKET, TI	EXEMPT FROM THE RES S.C. 6901, ET SEQ., THE N E OF THE EXEMPTION AF EXPLORATION, DEVELO O AS A CONDITION TO SU RANSPORTER REPRESENT	EPRESENTS AND SOURCE, CONSER NM HEALTH AND FORDED DRILLIN PMENT OR PROD UNDANCE SERVICES IS AND WARRAN	WARRANTS THAT THE W VATION AND RECOVERY SAF. CODE 361.001 ET SE NG FLUIDS, PRODUCED W UCTION OF CRUDE OIL OF CES, INC.'S ACCEPTANCE TS THAT ONLY THE MAT	ASTE MAT ACT OF 19 Q., AND RE VATERS, AN DR NATURA OF THE MA ERIAL DELI	ALS SHIPPED WITH THIS ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, ID OTHER WASTE ASSOCIATED AL GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO IS FACILITY FOR DISPOSAL.
Statemen. Certify th Incident.	t at the above describe at no additional mate	ed location, and	d that it was tendered	by the ab	represented by this Transporter ove described shipper. This will material was delivered without
ACILITY	REPRESENTATIVE: 4		fruss		
			1	S.	

				Tick	cet # 099747
Lease C	perator/Shipper/Comp	any:	altyd	Dg_	James
Lease N	ame: Salt	y ol	Og J	<u> </u>	U
	orter Company: & +	MI	ek'	Time <u>12.</u>	16 AM/END
Date:	18-17-08 v	ehicle No	04	Driver No	
Charge	To: Salty	4 d	<u> </u>		
	1	TYPE	OF MATERIAL	-	
. $\square$	Produced Water		Drilling Fluids	☐ Coi	mpletion Fluids
	Tank Bottoms	X	Contaminated Soil	☐ C-1	17 No.:
	Other Materials		BS&W Content:		
	Description: 50	lt		☐ JETO	· -
VOLUMI	OF MATERIAL		BBLS. 12	YARDS	
JOB TICKE MATERIAL TIME, 40 U BY VIRTUI WITH THE ALS TICKET, TI	O AS A CONDITION TO SUND	ESENTS AND V RCE, CONSERV HEALTH AND S RDED DRILLING ENT OR PRODU ANCE SERVICI AND WARRANT	WARRANTS THAT THE W VATION AND RECOVERY SAF. CODE 361.001 ET SEG G FLUIDS, PRODUCED W JCTION OF CRUDE OIL C ES, INC.'S ACCEPTANCE 'S THAT ONLY THE MATI	ASTE MATERIAL ACT OF 1976, AS Q., AND REGULA ATERS, AND OTH R NATURAL GAS OF THE MATERL ERIAL DELIVERE	SHIPPED HEREWITH IS AMENDED FROM TIME TO TIONS RELATED THERETO, HER WASTE ASSOCIATED S OR GEOTHERMAL ENERGY.  ALS SHIPPED WITH THIS JOB ED BY OPERATOR/SHIPPER TO
Statemen	t at the above described l	location, and	that it was tendered	by the above a	sented by this Transporter lescribed shipper. This will rial was delivered without
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FACILITY	REPRESENTATIVE:	2	lolisa		
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	Ticket # 099753
Lease Operator/Shipper/Company:	Ity dog James
Lease Name: 50 ltm	00 1
Transporter Company: Tulk Do	Time 1105 AMPM
	700
Date: 10-/7-08 Vehicle No.	Driver No.
Charge To:	Og
TYPE	OF MATERIAL
☐ Produced Water ☐ □	Prilling Fluids Completion Fluids
☐ Tank Bottoms ☐ C	Contaminated Soil
☐ Other Materials ☐ E	S&W Content:
	☐ JETOUT
Description: Salt	☐ CALLOUT
	: ~
VOLUME OF MATERIAL BI	BLS. ( ARDS
JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WA MATERIAL EXEMPT FROM THE RESOURCE, CONSERVA TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SA BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING	S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS RRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS TION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO F. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED TION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.
TICKET, TRANSPORTER REPRESENTS AND WARRANTS	, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
Statement at the above described location, and the	sporter loaded the material represented by this Transporter hat it was tendered by the above described shipper. This will to this load, and that the material was delivered without
10 10	
DRIVER: STATE (A)	
FACILITY REPRESENTATIVE:	hon

		Ticket # U99752				
Lease Operator/Shipper/Company	Lease Operator/Shipper/Company: Salty did Anna					
Lease Name:	Lease Name: Salta Aga					
Transporter Company:	a	_Time/AM/PM)				
Date: 10 - 17 - 08 Vehi	icle No. 544	Driver No.				
Charge To:	dog					
	TYPE OF MATERIA	L				
☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids				
☐ Tank Bottoms	Contaminated Soil	☐ C-117 No.:				
☐ Other Materials	☐ BS&W Content:					
Description:	£	☐ JETOUT ☐ CALLOUT				
VOLUME OF MATERIAL	BBLS.	YARDS				
TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEA BY VIRTUE OF THE EXEMPTION AFFORDE	ENTS AND WARRANTS THAT THE V E, CONSERVATION AND RECOVERY ALTH AND SAF. CODE 361.001 ET SE D DRILLING FLUIDS, PRODUCED V	VASTE MATERIAL SHIPPED HEREWITH IS  Y ACT OF 1976, AS AMENDED FROM TIME TO  EQ., AND REGULATIONS RELATED THERETO,				
	WARRANTS THAT ONLY THE MAT	OF THE MATERIALS SHIPPED WITH THIS JOB TERIAL DELIVERED BY OPERATOR/SHIPPER TO ICES, INC.'S FACILITY FOR DISPOSAL.				
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.						
DRIVER:						
FACILITY REPRESENTATIVE:						

				~	Ticket # 099/64
Lease C	perator/Shipper/Compa	any: 50	thy d	Jog	Janes
Lease N	lame: <u>Salt</u>	y do	<u> </u>	<u> </u>	¥
	orter Company: <u>E</u>	Y. M TA	ZW	Timea	LILO_AM/PM
Date:	10-17-08 ve	ehicle No	4	Driver N	No
Charge	To:	IN DO	a Zia		
		TYPE O	F MATERIAL		
	Produced Water	☐ Dril	ling Fluids		Completion Fluids
	Tank Bottoms	Cor	ntaminated Soil		C-117 No.:
	Other Materials	☐ BS	&W Content:		
	Description:	Q			JETOUT CALLOUT
VOLUM	OF MATERIAL	BBL	s. 17	ARDS	
JOB TICKE MATERIAI TIME, 40 U BY VIRTUI WITH THE ALSO TICKET, TI TRANSPOI  THI Statemen	EXEMPT FROM THE RESOUR  I.S.C. 6901, ET SEQ., THE NM HE  E OF THE EXEMPTION AFFORE  EXPLORATION, DEVELOPME  O AS A CONDITION TO SUNDAR  RANSPORTER REPRESENTS AT  RETER IS NOW DELIVERED BY  IS WILL CERTIFY that the  tat the above described to	ESENTS AND WARR RCE, CONSERVATIO REALTH AND SAF. O DED DRILLING FLU NT OR PRODUCTIO ANCE SERVICES, IN ND WARRANTS TH TRANSPORTER TO The above Transp Dication, and that	CANTS THAT THE WAR AND RECOVERY AND RECOVERY AND RECOVERY AND STATE OF THE SEQUIDS, PRODUCED WARDON OF CRUDE OIL OF THE MATE SUNDANCE SERVICE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE MADE OF THE M	ASTE MATI ACT OF 19' A., AND REATERS, AN R NATURA OF THE MA RIAL DELL CES, INC.'S material in	ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED L GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB IVERED BY OPERATOR/SHIPPER TO
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DRIVER:	albera	- Al	hor.		
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FACILITY	REPRESENTATIVE:		olvan	_	
				va,	

				4 -	Ticket # U9916U		
Lease C	Lease Operator/Shipper/Company: 50 11 000 70000						
Lease N	Lease Name: Salty dog						
Transpo	orter Company: 💪🗛	MA	ri U	Time	145 AMPM		
Date:	D-17-08_Vehi	cle No	315	Driver N	ło		
Charge	To: Saltin	de	<b>2</b>				
		TYPE	F MATERIAL				
	Produced Water		Drilling Fluids		Completion Fluids		
	Tank Bottoms		Contaminated Soil		C-117 No.:		
	Other Materials		BS&W Content:				
	Description: Sa	战		_	JETOUT CALLOUT		
(OL LIMI	E OF MATERIAL		BBLS.	L YARDS			
/OLUIVII	E OF WATERIAL		BBLS.	Z MINDO			
JOB TICKI MATERIAI TIME, 40 U BY VIRTU	J.S.C. 6901, ET SEQ., THE NM HEA E OF THE EXEMPTION AFFORDE	ENTS AND E, CONSER ALTH AND D DRILLIN	WARRANTS THAT THE W. VATION AND RECOVERY SAF. CODE 361.001 ET SEC IG FLUIDS, PRODUCED W	ASTE MATE ACT OF 19 Q., AND RE ATERS, AN	ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO,		
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.							
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.							
DRIVER: 4060 00805							
	711						
FACILITY	REPRESENTATIVE:		Fun				
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### Public Notice

Notice is hereby given that pursuant to the New Mexico Oil Conservation Division Regulations, the following application has been submitted for a discharge renewal to the Director of the Oil Conservation Division, P.O. Box 6429, 1220 South Saint Francis Drive, Santa Fe, NM 87505, (505) 476-3440.

The applicant, Salty Dog, Inc., PO Box 2724, Lubbock, TX 79408, has applied for a renewal to its existing discharge permit, BW-008. The facility is located approximately 12 miles West of Hobbs, New Mexico on Hwy. 62-180 in the NE ¼ of Section 5, Township 19 S., Range 36 E., Lea Co., New Mexico. The Facility produces and sells approximately 800 bbls. Of brine per day from an approved brine extraction well. Groundwater at this area is found at approximately 60 ft. and has chloride concentration that ranges from 75 milligrams per liter to 800 milligrams per liter and a total dissolved solids concentration that ranges from 500 milligrams per liter to 1500 milligrams per liter. The facility location is underlain by alluvial sediment and the Ogallala formation. The permit application addresses all phases of this operation.

Any interested person may obtain information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The application may be viewed at the above address or the Hobbs District Office at 1625 N. French Drive, Hobbs, NM, between 8:00 am and 4:00pm, Monday thru Friday, Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of the notice, during which comments may be submitted and public hearing may be requested in by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

Posted In Lovington Paper

Posted at Monte's Cafe HWY 62/180 1.5 miles East & Salty Dog IV. Snyder Ranches Inc.

PO Box 2158

Hobbs, NM 882414

- V. Salty Dog produces and sells both fresh water and brine. The fresh water is contained in two 1000 bbl. Tanks. The brine pumped from the well approximately .5 miles to the storage facility. The brine is held here for purchase by trucking companies. There are never any trucks up around the well head.
- VI. The fluids, both fresh and brine, are transferred to and from the brine well in through 3" black poly pipe that is 3/8" thick, buried to a depth of 18". This line is inspected daily for leak when the entire facility is inspected.
- VII. See Attached bore sketch.

VIII.

### Salty Dog Emergency Action Plan

- 1. Should an accidental release occur the following actions will take place
  - a. Call James Millett at 806-241-7405
  - b. Call Terry Wallace at 5753938353
  - c. Hire Vacuum Trucks from Zia Transports INC
  - d. Notify the Oil Conservation Division
  - e. Manager will arrive on site and determine further action necessary.
- IX. A water sample report will be provided to the OCD within 30 days of this submission from Daniel B. Stephens.
- X. Salty Dog INC. is committed to complying with all OCD rules. We will be leveling our site and installing tanks on a concrete loading pad. Salty Dog will also continue to provide quarterly production reports.

### Notes:

- 1) Well pressured up to top gauge pressure of 400 psig was found to be faulty when calibrated chart recorder was connected, pressure was at only 200 psig. Operator agreed to pressure up cavern overnight to run Formation MIT at greater than 300 psig the next morning. C-103 with Formation MIT (4 hrs) will be mailed to OCD the week of 8/17/2009.
  - The gauge has been replaced and the test was preformed.
- 2) Black frac tanks temporarily used to store and sell brine are not within bermed and lined containment area(s) until tanks can be installed and operational as per item 3 below. The operator shall step up inspections around the tanks for any leakage and reporting under release reporting in the permit. What is the date for permanent brine well tanks to be installed to replace temporary frac tanks?
  - We have a twice daily inspection of the entrie brine facility. This inspection includes but is not limited to a visual walk around the frac tanks.
  - Sometime after the first of the year we look to install the permant tanks.
- 3) Tanks installed to replace brine ponds are not in service yet. What is the date on installation and operation? OCD requires a liner system of sufficient mil thickness with adequate dimensions for containing 1 + 1/3 the volume of a single enclosed tank and interconnected tanks enclosed within the berm area. For guidelines see recent OCD Pit and/or Surface Waste Management Regulations.
  - Yes we are aware and will use these rules for guidance.
- 4) A new mobile home was recently placed within 300 ft. W of the brine wellhead.

5) Operator claims it can't make 10 lb. brine under conventional flow regime.

### • This is true

6) OCD received chart from MIT (run on 8/14/2009) with calibration sheet via mail on 8/28/09 indicating the unwitnessed Formation MIT passed without any pressure loss at 320 psig.
7) OCD notes that his facility is under an NOV with remedial or corrective action issues ongoing.

# **BW-8**

# ANNUAL REPORT

2009

## Index Page

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II.	Production and Injection Volumes
III.	Reverse Flow Records
IV.	Analysis of Injection Fluid & Brine
V.	Spill Report
VI.	House Keeping
VII.	Solid Waste Disposed
VIII.	Ground Water Report
IX.	Pressure Tests
Χ.	Capacity / Cavity Configuration & Subsidence Survey (September Only)

## Injection Pressures

## Salty Dog Weekly Report

Date	5-17-10
Inspectors Name	
Injection	<u>Pressure</u>
Casing PSI	375
Tubing PSI	125

6.7
Pressure
375
125

Date	5-24-10	
Inspectors Name		
Injecti	on Pressure	
Casing PSI	375	
Tubing PSI	125	

Date	6.14	
Inspectors Name	ame	
Injection Pressure		
Casing PSI 375		
Tubing PSI	125	

Date	5.31	
Inspectors Name		
Injection Pressure		
Casing PSI	375	
Tubing PSI	125	

Date	6.21	
Inspectors Name		
Injection Pressure		
Casing PSI	375	
Tubing PSI	125	

# Production and Injection Volumes

### **Monthly Report**

Inspector Name	Jon Ammons
Date:	2-1-10

<b>Production/Injection Volumes</b>		
Gallons		
Gallons		

<u>Housekeeping</u>		
	Inspectors	
Inspection	Initials	Date:
Check proper operation of	N	
overfill devices	9	6-21
Check for leaks	X	8-21
Check for spills	gr	6-21

<b>Reverse Flow Report</b>		
	Date:	
	Time Start:	
	Time Stop:	
	Total hours of	
	reverse flow:	

Note: Reverse flow will be allowed only once a month for up to 24 hours for clean out.

Housekeeping Report		
Date:	6-19	
Malfunction:	Fresh Water Pump	
Correction	Í	
and Date:	Replaced 6-	21 wh New Promp
and Date: Replaced 6-21 Wh New Pump  Note: All problems found shall be corrected within 48 hours and noted.		

Additional Notes	

## MI.

# Reverse Flow Records

<b>Monthly Report</b>
-----------------------

Inspector Name	
Date:	

<b>Production/Injection Volumes</b>			
Fresh water Injected	Gallons		
Brine water Produced	Gallons		
Brine water Produced	Gallons		

Housekeeping					
	Inspectors				
Inspection	Initials	Date:			
Check proper operation of					
overfill devices					
Charle for lanks					
Check for leaks					
Check for spills					

	Reverse I	Flow Report	d ·
	Date:		
	Time Start:		
	Time Stop:		·
	Total hours of		
	reverse flow:		
Note: Reverse flow v	vill be allowed only	y once a month for u	ip to 24 hours for

Note: Reverse flow will be allowed only once a month for up to 24 hours for clean out.

<b>Housekeeping Report</b>			
Date:			
Malfunction:			
Correction			
and Date:			
Note: All problems found	shall be corrected within 48 hours and noted.		

Additional Notes										
No	Reverse	flow	recorded	in	the	2 Ad	quarter	of	2010.	
								2.11 I	7-	
	No	No Reverse	No Reverse flow					No Reverse flow recorded in the 2nd quarter	No Reverse flow recorded in the 2nd quarter of	Additional Notes  No Reverse flow recorded in the 2 rd quarter of 2010.

## IV.

# Analysis of Injection Fluid & Brine

V.

## Spill Report

## **Monthly Report**

Inspector Name	Jon Annans
Date:	2-1-10

n Volumes
Gallons
Gallons

<u>Housekeeping</u>				
	Inspectors			
Inspection	Initials	Date:		
Check proper operation of overfill devices	n	6-21		
Check for leaks	X	6-21		
Check for spills	gr	6-21		

	<b>Reverse Flow F</b>	Report
	Date:	
	Time Start:	
	Time Stop:	·
	Total hours of reverse flow:	
Note: Reverse f	low will be allowed only once a	month for up to 24 hours for

Housekeeping Report			
Date:	6-19		
Malfunction:	Fresh Water Pump	·	
Correction		21 Wh New Pump cted within 48 hours and noted.	
Note: All proble	ems found shall be corre	cted within 48 hours and noted.	

	Additional Notes					
<b></b>	No Spills reported in the 2 and quarter of 2010.					
-	Tell Mart					
	- July Mar					
L						
L						

# VI.

# House Keeping

## **Monthly Report**

Inspector Name	Jon Ammans
Date:	2-1-10

Production/Inj	ection Volumes
Fresh water Injected	Gallons
Brine water Produced	Gallons

<u>Housel</u>	<u>keeping</u>	
	Inspectors	<b>D</b> -4
Inspection	Initials	Date:
Check proper operation of	$\mathcal{A}$	
overfill devices	7	6-21
Check for leaks	g/	6-21
Check for spills	gr	6-21

	Reverse Flo	w Report	
Da	te:		
Tir	ne Start:		
Tir	ne Stop:		
То	tal hours of		
rev	verse flow:		to 24 ba

Note: Reverse flow will be allowed only once a month for up to 24 hours for clean out.

	<u>Housekee</u>	ping Report
Date:	6-19	
Malfunction:	Fresh Water Pump	
Correction		
and Date:	Replaced 6	21 Wh New Rump cted within 48 hours and noted.
Note: All probl	ems found shall be corre	cted within 48 hours and noted.

A	<u>dditional Notes</u>	
· ·		

# VII.

# Solid Waste Disposed

## **Solid Waste Disposed Report**

No solid waste was disposed of in the 2nd Quarter of 2010

# VIII.

# Ground Water Report

# IX.

# **Pressure Tests**

# Capacity / Cavity Configuration & Subsidence Survey



## **ECHO - LOG**

Salty Dog, Inc.

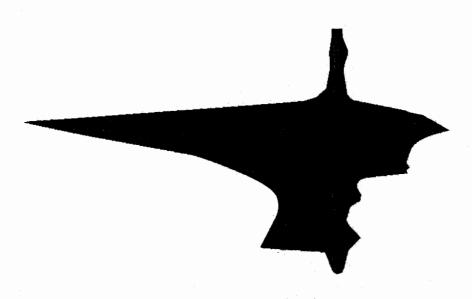
**Brine Well No: 1** 

**Hobbs, New Mexico** 

First SOCON Sonar Well Services Survey

02/05/2009

093013



#### **SOCON Sonar Well Services, Inc.**

11133 I-45 South, Ste. E Phone (936) 441-5801 Conroe, Texas 77302 Fax (936) 539-6847

e-mail: soconusa@socon.com

093013

02/05/2009

Results of the Cavern Survey by means of Echo-Sounding

in the cavern

**Brine Well No: 1** 

Date: 02/05/2009

093013

**Customer:** 

Salty Dog Inc.

Lubbock, Texas

#### Responsible for the survey:

Surveyor:

**HL Van Metre** 

Leadership:

Mr. James Millet

Interpreter:

**HL Van Metre** 

Control:

Mr. Richard Lawrence

093013

02/05/2009

#### **Contents**

Summary of results

Legend

Enclosures:

Volume (diagrams and lists)

Diameter and radii (diagrams and lists)

Perspective views

Maximum plots (top view)

Horizontal sections

Maximum plot (side view)

Vertical sections

093013

02/05/2009

0

1903.0 ft

## **Summary of results**

Measured tilted sections:

Lowest survey depth:

Well details	
All depths are given as:	MD
Datum level for all depths:	surface
Shoe of the cemented 5-1/2" - casing:	1871.0 ft
Reference depth for ECHO-LOG:	1871.0 ft
Depth correction:	0.0 ft
Pressure at the well head:	0.0 psi
Details of survey equipment	
Measuring vehicle used:	Grey Wireline
Tools used:	XN02 - R185
General details	
Number of runs:	1
Measured horizontal sections:	18

Maximum radius:

Brine Well No: 1

093013

02/05/2009

41.0 ft

#### Maximum and minimum dimensions with ref. to the measuring axis

Referen	6	dira	ction	٠.
Referen	CE	uire	CHOI	1:

magnetic north

Determination out of 12 vertical sections derived from horizontally and tilted measured data at 15 degree intervals:

Minimum radius: Depth: Direction:	0.0 ft 1903.1 ft 0°
Maximum radius: Depth: Direction:	38.2 ft 1882.0 ft 195°
Highest point of cavern: Horizontal distance: Direction:	1871.0 ft 0.6 ft 0°
Lowest point of cavern: horizontal distance: Direction:	1903.1 ft 0.0 ft 0°

Lowest point in the measuring axis: 1903.1 ft

Determination out of 18 horizontal sections in the depths between 1871 feet and 1903 feet at 5 degree intervals:

1882.0 ft 200°
52.1 ft 1882.0 ft 20 - 200°

Volume

Volume: 720.0 Bbls

Depth range: 1871.0 ft <--> 1903.0 ft

093013

02/05/2009

#### **Interpretation**

Supposing a rectilinear propagation of ultrasonic waves all recorded echo travel times were converted into distances by using the subsequent speeds of sound:

5020 feet/second to 5020 feet/second in brine (measured)

In the case of recording several echoes along one trace of echo signals, the representative echo signal was selected according to the level of amplitude, transmission time, and density of measured points and the shape of the cavern.

#### **Horizontal sections**

18 horizontal sections at following measured depths are included as graphical plots in this report:

1871.0 ft	1872.0 ft	1874.0 ft	1876.0 ft	1878.0 ft	1880.0 ft	1882.0 ft
1884.0 ft	1886.0 ft	1888.0 ft	1890.0 ft	1892.0 ft	1894.0 ft	1896.0 ft
1898.0 ft	1900.0 ft	1902.0 ft	1903.0 ft			

#### **Tilted sections**

0 sections recorded with tilted echo-transducer at following measured depths are presented in the vertical sections:

#### Vertical sections

The shape of the cavern was determined by interpretation of all horizontally and tilted measured data and is presented by 36 vertical sections in this report.

093013

02/05/2009

#### Maximum plots (top view)

The maximum plot presents the largest extension of the cavern in a top view. The first picture shows the areas of all horizontal sections and the area resulting out of the vertical sections (hatched). The resulting total area is shown in the second picture (cross hatching) together with the largest single area.

In both pictures the total centre of gravity of the cavern is shown with its distance and its direction referring to the measuring axis.

The total centre of gravity is derived out of the envelope, which is the connection line of the largest cavern extension in every direction

#### Perspective views

Several perspective drawings are included in this report to give a quick review of detailed relations.

#### Pockets in the cavern wall

Pockets in the cavern wall, which have been identified by the tilted echo-transducer, were transferred from the vertical sections to the respective horizontal sections. The resulting additional areas have been added to the calculated areas.

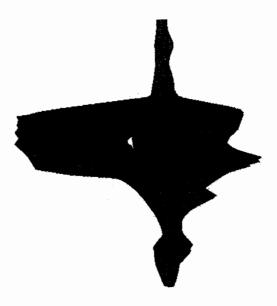
093013

02/05/2009

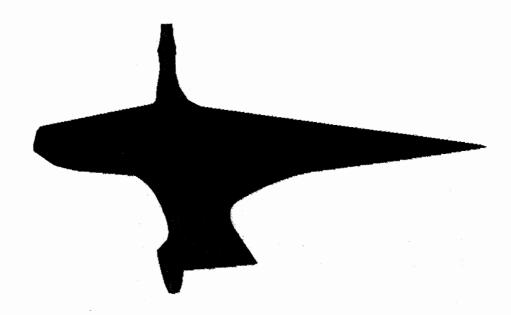
#### **LEGEND**

	Measured point recorded with horizontal adjusted ultrasonic transducer
	Measured point recorded with tilted or vertical orientated ultrasonic transducer
<b>A</b>	Interpolated point derived from the vertical sections
	Connection line between two measured points in order to calculate the volume
	Assumed connection line (in areas which are not sufficiently covered by measured points)
N	Magnetic north determined with compass inside the tool (Magnetic compass in areas without tubing) (Fibre gyro compass in areas with tubing)
(N)	Assumed north direction (for sections in magnetic disturbed surroundings without fibre gyro compass)
<b>a</b>	Longest extension in section (Without considering of hidden leached pockets)
b	Longest extension in section perpendicular to a (Without considering of hidden leached pockets)
a/b	Ratio of longest extensions in section which are perpendicular to each other
(xx m²)	Area in actual section resulting from hidden leached pockets
r~	Average radius
<b>6</b> 0218	35 29.04 2002 Job number and survey date

093013

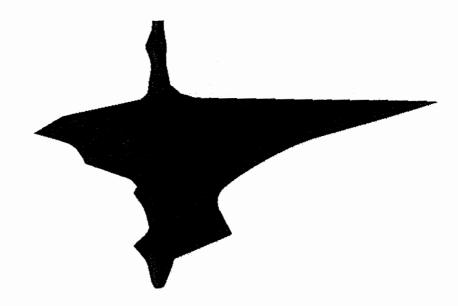


Brine Well No: 1 --> 0° <--



Brine Well No: 1 --> 60° <--

093013



Brine Well No: 1 --> 120° <---

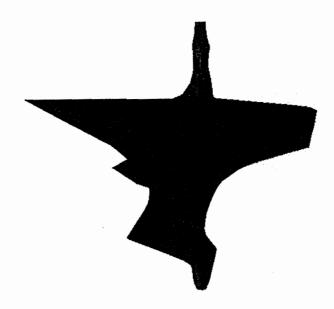


Brine Well No: 1 --> 180° <--

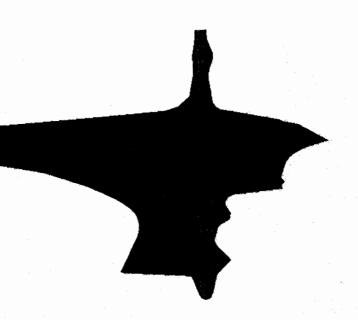


Brine Well No: 1

093013

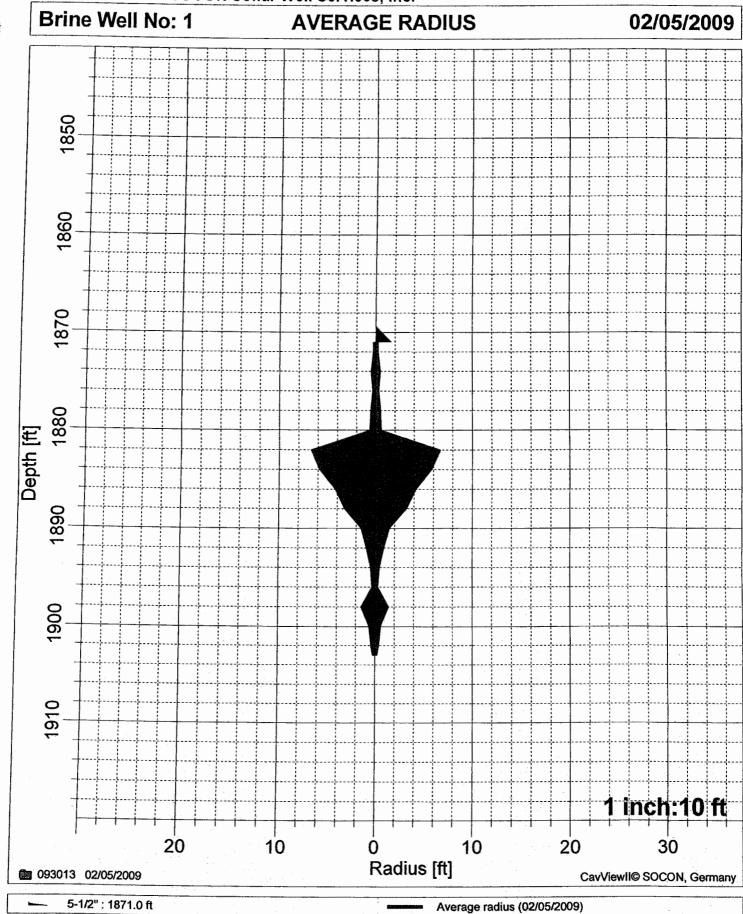


Brine Well No: 1 --> 240° <--

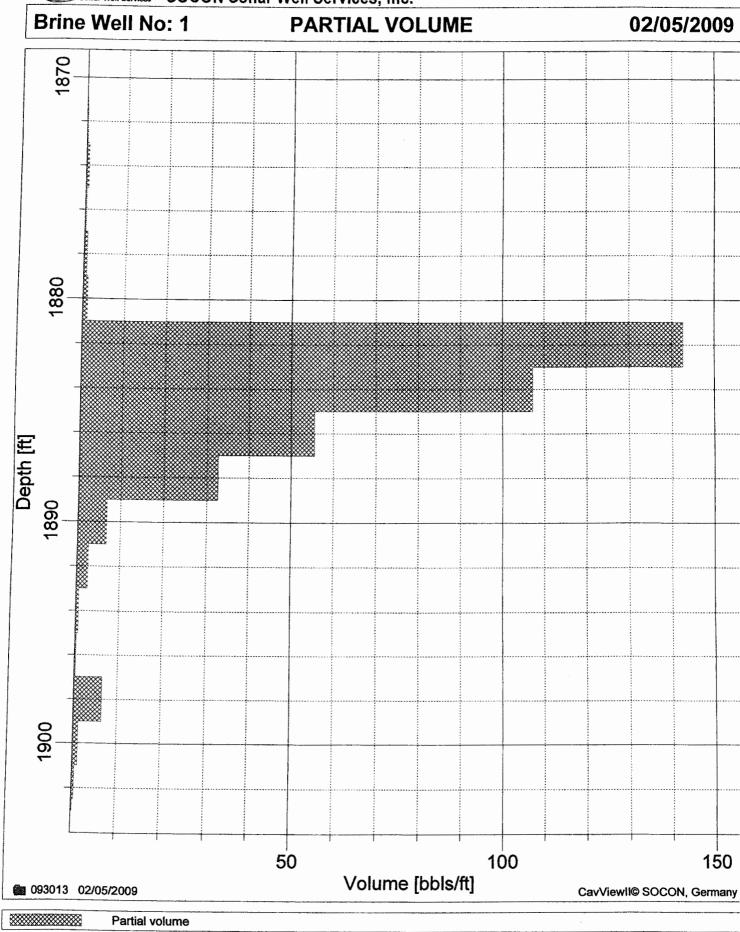


Brine Well No: 1 --> 300° <--











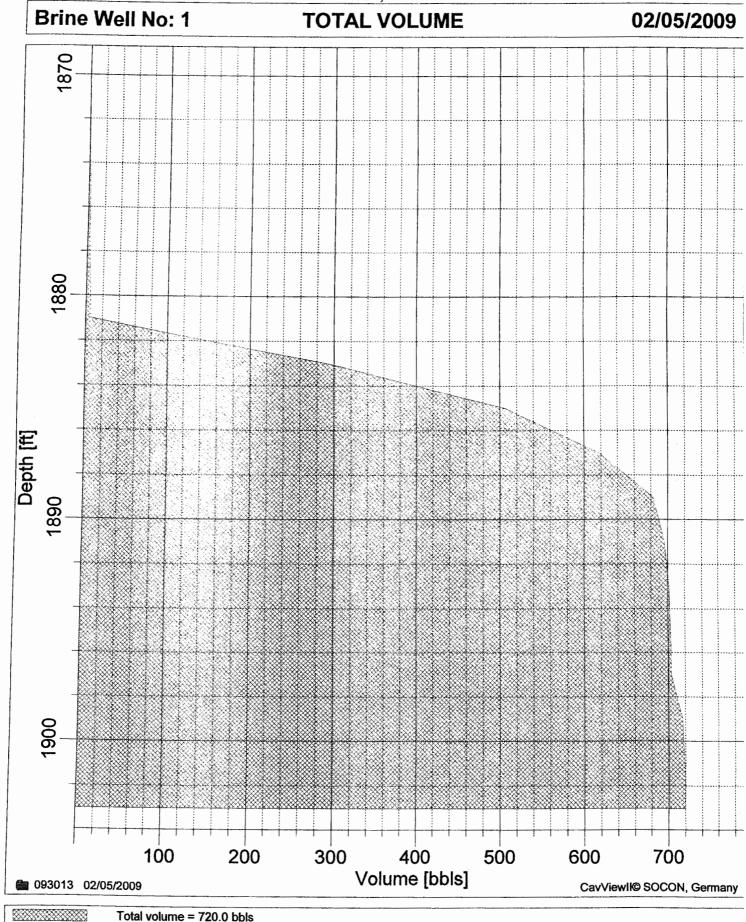
## Volume list

Brine Well No: 1

093013

Depth [ft]	Radius [ft]	Area [ft²]	Dep	th range [ft]	Volume [bbls]		
			from	to	partial	total	
1871.0	0.6	1	1871.0	1871.5	0	0	
1872.0	0.7	1	1871.5	1873.0	0	0	
1874.0	1.1	4	1873.0	1875.0	1	2	
1876.0	8.0	2	1875.0	1877.0	1	. 3	
1878.0	1.2	5	1877.0	1879.0	2	4	
1880.0	1.5	7	1879.0	1881.0	2	7	
1882.0	16.0	800	1881.0	1883.0	285	292	
1884.0	13.8	602	1883.0	1885.0	214	506	
1886.0	10.0	312	1885.0	1887.0	111	617	
1888.0	7.6	183	1887.0	1889.0	65	683	
1890.0	3.5	38	1889.0	1891.0	14	696	
1892.0	2.2	15	1891.0	1893.0	5	702	
1894.0	1.1	4	1893.0	1895.0	1	703	
1896.0	8.0	2	1895.0	1897.0	1	704	
1898.0	3.4	37	1897.0	1899.0	13	717	
1900.0	1.5	7	1899.0	1901.0	2	719	
1902.0	1.0	3	1901.0	1902.5	1	720	
1903.0	0.6	1	1902.5	1903.0	0	720	





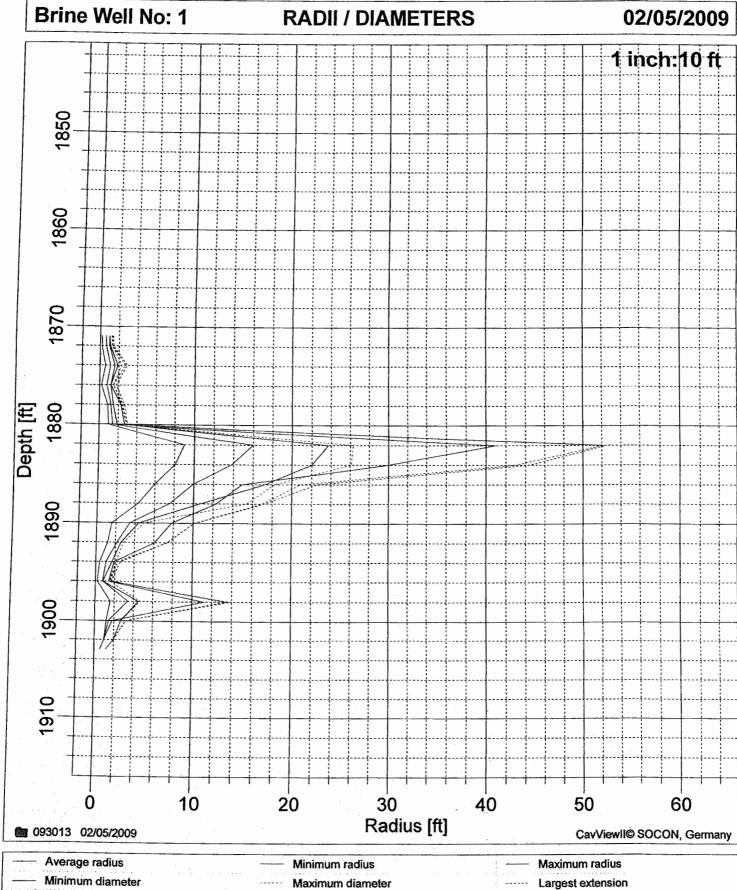


## Table of volumes (foot by foot)

Job-No.: 093013, Name: Brine Well No: 1, Date: 02/05/2009										
depth	volume	depth	volume	depth	volume	depth	volume	depth	volume	
[ft]	[bbls]	[ft]	[bbls]	[ft]	[bbls]	[ft]	[bbls]	[ft]	[bbls]	
		1871	01	1872	01	1873	0	1874	1	
1875	2	1876	21	1877	31	1878	3	1879	4	
1880	51	1881	71	1882	1491	1883	2921	1884	399	
1885	5061	1886	562	1887	617	1888	6501	1889	683	
1890	6891	1891	6961	1892	6991	1893	7021	1894	702	
1895	7031	1896	703	1897	7041	1898	7101	1899	717	
1900	718	1901	719	1902	7201	1903	720			



Largest perpendicular extension





## Table of radii and diameters

Brine Well No: 1

093013

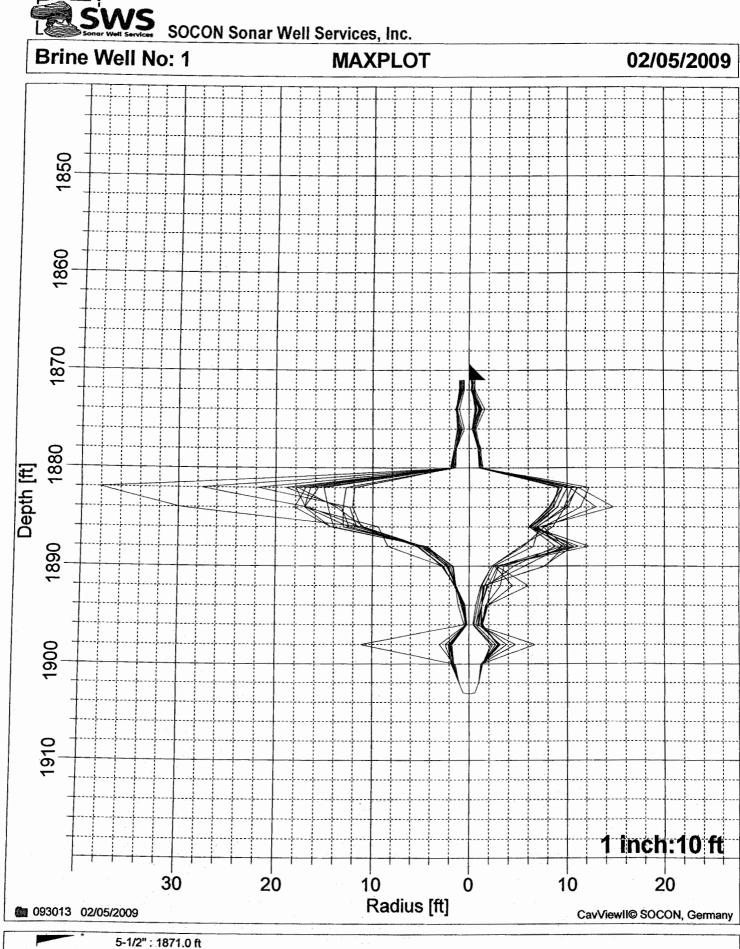
Depth	Radiu	ıs [MIN]	Radius [MAX] Diameter [MIN]		eter [MIN]	[MAX]		
(ft]	[ft]	[°]	[ft]	[°]	[ft]	[°]	(ft)	[°]
			-					
1871.0	0.2	121	1.0	240	1.0	22 <-> 202	1.3	60 <-> 240
1872.0	0.2	76	1.0	240	1.1	173 <-> 353	1.3	45 <-> 225
1874.0	0.6	122	1.6	0	1.9	122 <-> 302	2.7	5 <-> 185
1876.0	0.2	110	1.2	235	1.2	167 <-> 347	1.5	45 <-> 225
1878.0	0.9	37	1.5	220	2.3	15 <-> 195	2.5	155 <-> 335
1880.0	1.0	72	1.9	255	2.7	165 <-> 345	2.9	45 <-> 225
1882.0	9.0	95	41.0	200	23.7	145 <-> 325	52.1	20 <-> 200
1884.0	8.1	117	29.9	195	22.0	65 <-> 245	43.0	20 <-> 200
1886.0	6.0	107	14.9	290	17.2	75 <-> 255	20.9	110 <-> 290
1888.0	4.3	292	12.3	75	10.7	15 <-> 195	17.0	75 <-> 255
1890.0	1.6	277	7.8	155	4.4	85 <-> 265	10.1	160 <-> 340
1892.0	1.2	2	6.1	100	2.6	2 <-> 182	7.4	100 <-> 280
1894.0	0.4	246	1.9	75	1.7	12 <-> 192	2.3	75 <-> 255
1896.0	0.2	216	1.4	80	8.0	19 <-> 199	1.6	95 <-> 275
1898.0	1.6	307	11.2	180	4.5	115 <-> 295	13.4	0 <-> 180
1900.0	1.2	117	1.8	220	2.7	122 <-> 302	3.2	40 <-> 220
1902.0	1.0	2	1.0	0	2.0	2 <-> 182	2.0	0 <-> 180
1903.0	0.6	2	0.6	0	1.2	2 <-> 182	1.2	0 <-> 180



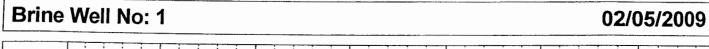
## Table of radii in N-E-S-W-NE-SE-SW-NW presentation

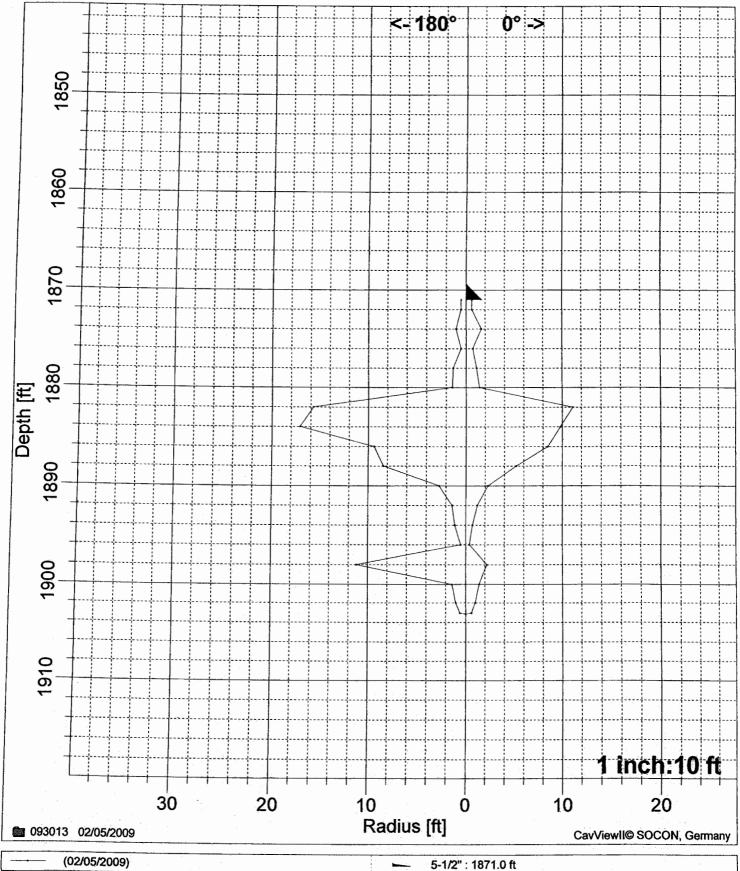
Brine Well No: 1				093013					
Depth [ft]	<r> [ft]</r>	N [ft]	E [ft]	S [ft]	W [ft]	NE [ft]	SE [ft]	SW [ft]	NVV [ft]
1871.0 1872.0 1874.0	0.6 0.7 1.1	0.6 0.6 1.6	0.3 0.2 1.0	0.5 0.5 1.0	1.0 1.0 1.3	0.3 0.4 1.1	0.2 0.3 0.6	0.8 0.9 1.2	0.9 0.9 1.3
1876.0 1878.0	0.8 1.2	0.7 1.1	0.3 0.9	0.5 1.3	1.2 1.5	0.4 0.9	0.3 1.0	1.1 1.5	1.1 1.5
1880.0 1882.0 1884.0	1.5 16.0 13.8	1.4 11.1	1.0 9.1	1.4 15.7	1.9 18.0	1.1 10.5	1.1 10.0	1.8 21.8	1.7 15.1
1886.0 1888.0	10.0 7.6	9.8 8.5 5.2	8.5 6.2 11.2	17.1 9.4 8.4	17.0 12.5 4.5	9.7 6.9 9.5	9.0 6.3 9.6	12.4 11.7 5.3	14.7 14.1 4.4
1890.0 1892.0	3.5 2.2	2.3 1.2	2.8 6.0	2.7 1.4	1.7 1.3	2.9 1.9	5.6 1.6	2.6 1.5	2.1 1.3
1894.0 1896.0 1898.0	1.1 0.8 3.4	0.7 0.4	1.9 1.4	1.1 0.5	0.4 0.2	1.3 1.0	1.3 1.2	0.6 0.2 2.1	0.5 0.3 1.7
1900.0 1902.0	1.5 1.0	2.2 1.4 1.0	3.0 1.4 1.0	11.2 1.4 1.0	1.8 1.6 1.0	3.2 1.4 1.0	3.8 1.2 1.0	1.8 1.0	1.7 1.5 1.0
1903.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6







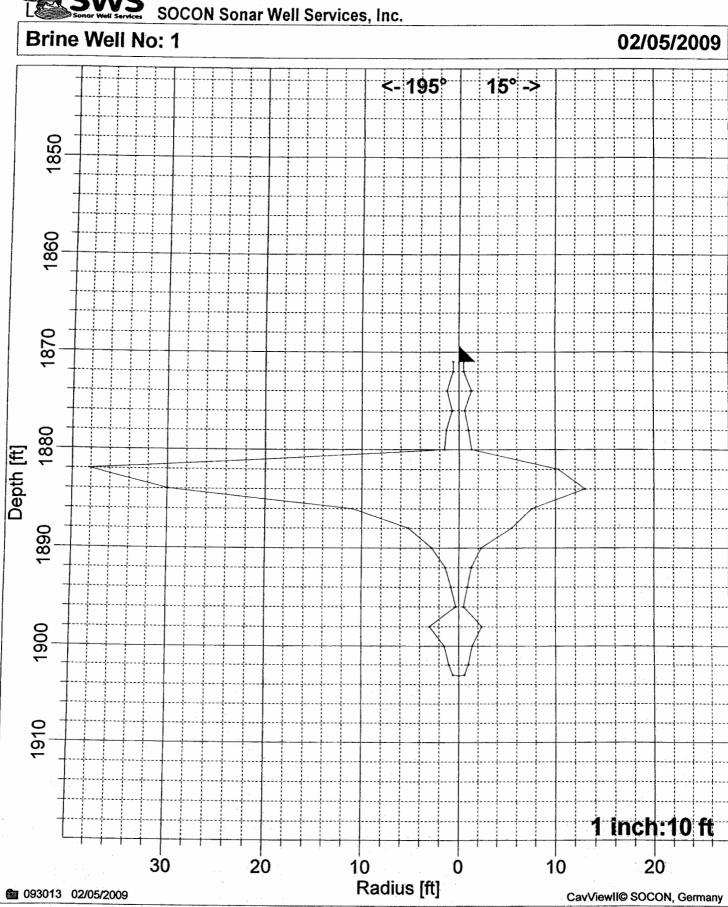






**1093013 02/05/2009** 

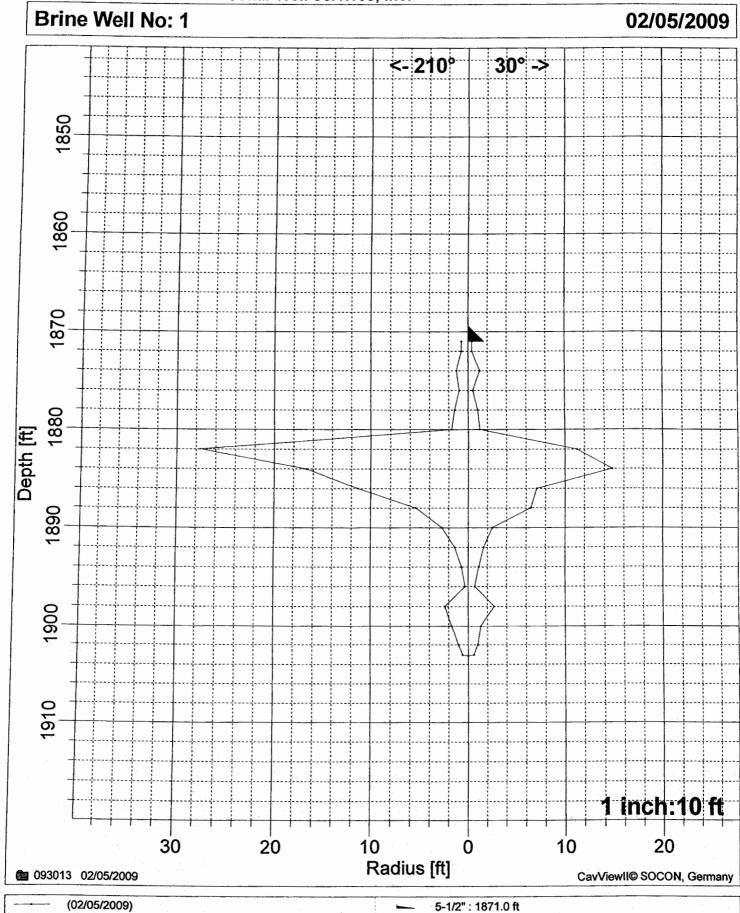
(02/05/2009)



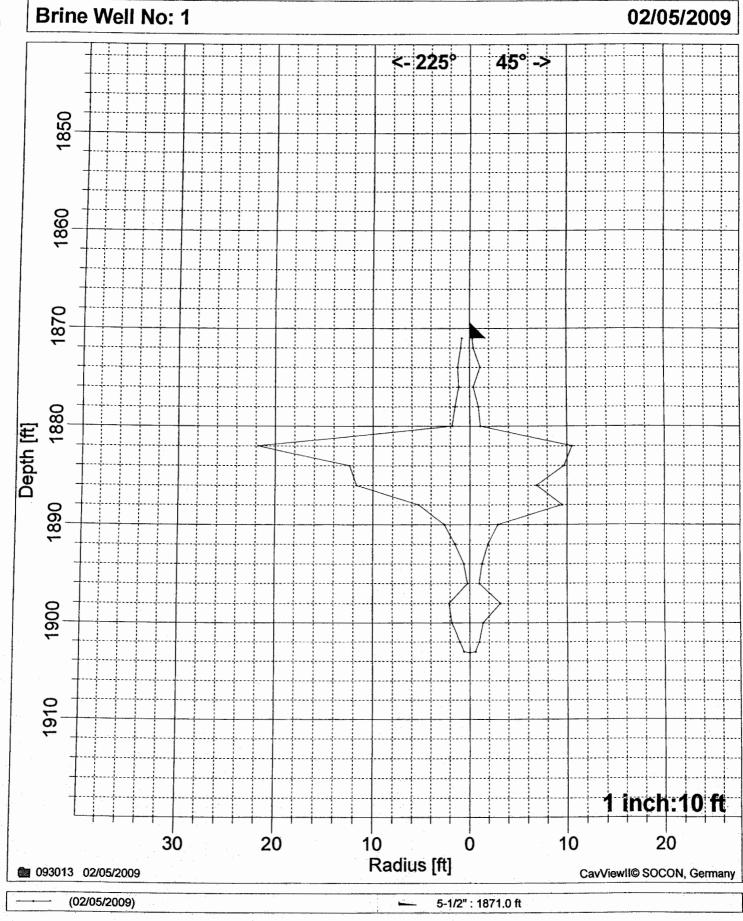
CavViewII© SOCON, Germany

5-1/2": 1871.0 ft





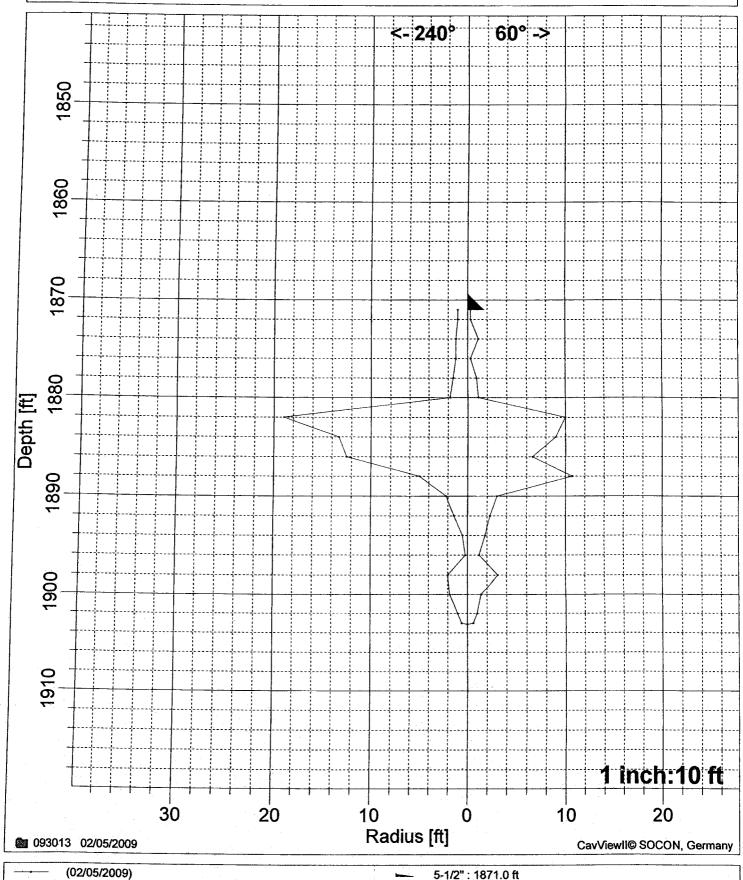






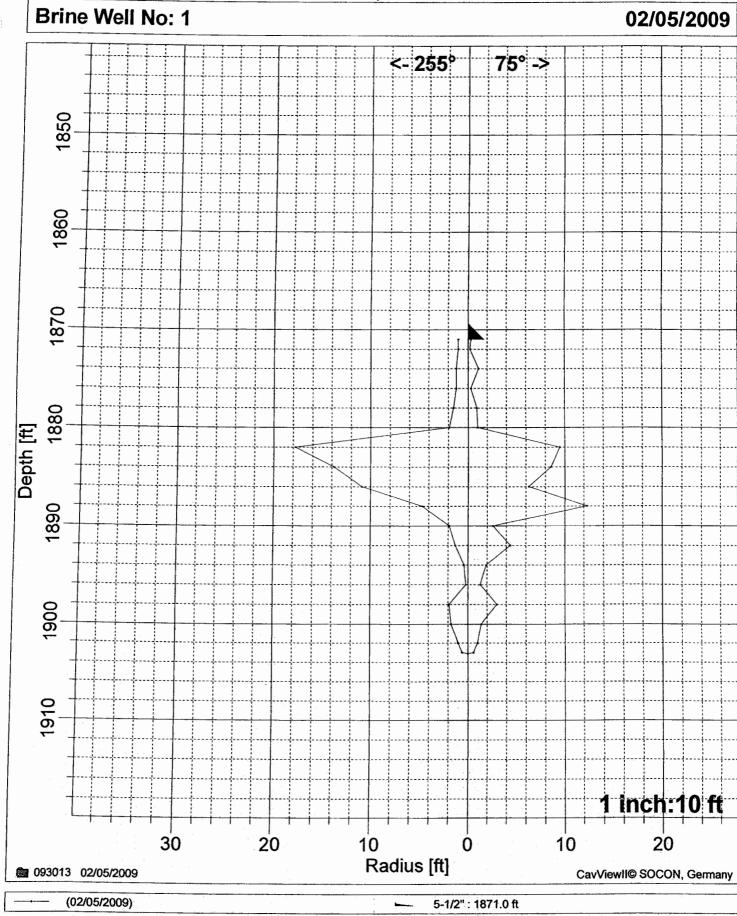


02/05/2009

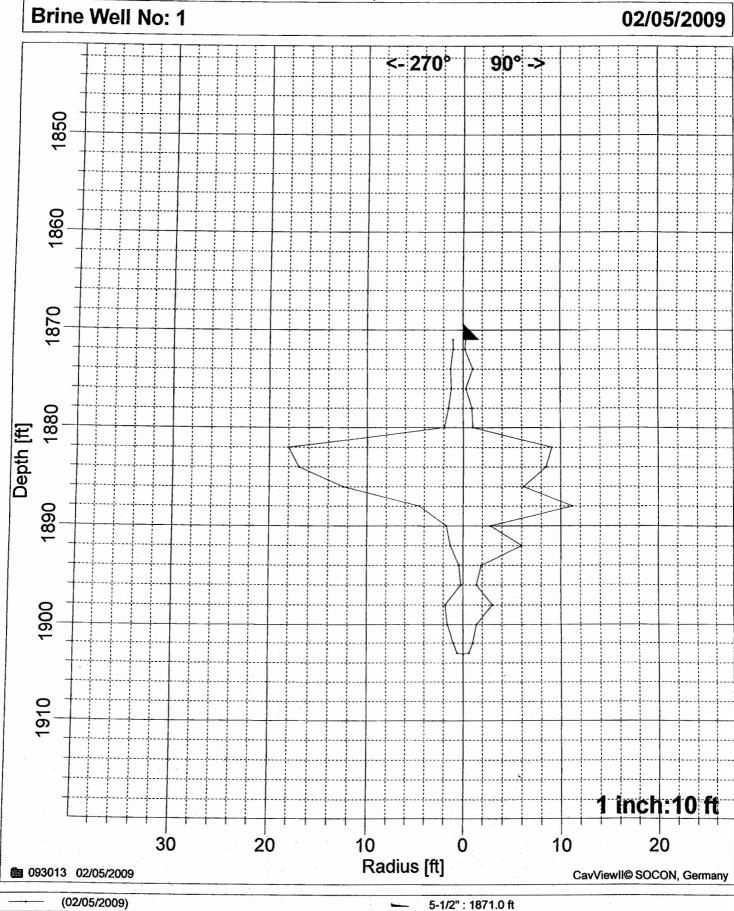


5-1/2": 1871.0 ft

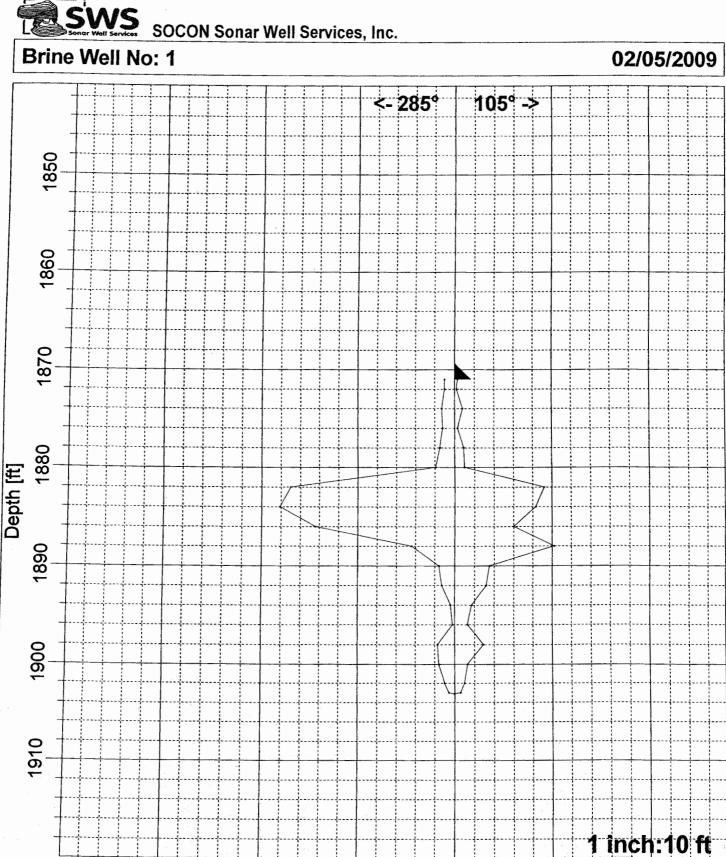












(02/05/2009)

**2005/2009 2005/2009** 

30

20

5-1/2": 1871.0 ft

0

10

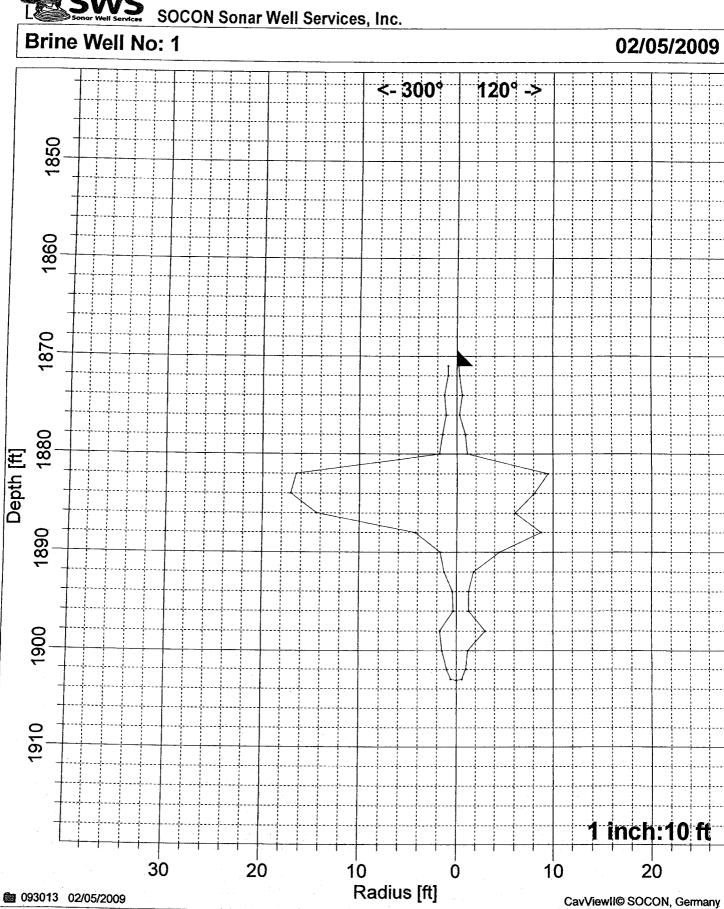
20

CavViewII© SOCON, Germany

10 Radius [ft]



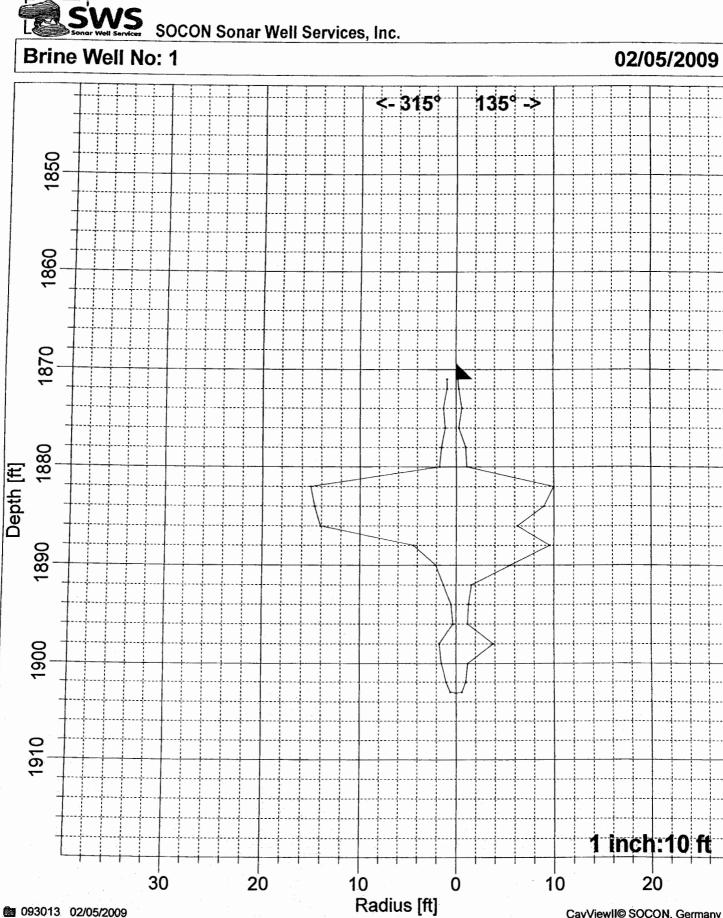
(02/05/2009)





**093013** 02/05/2009

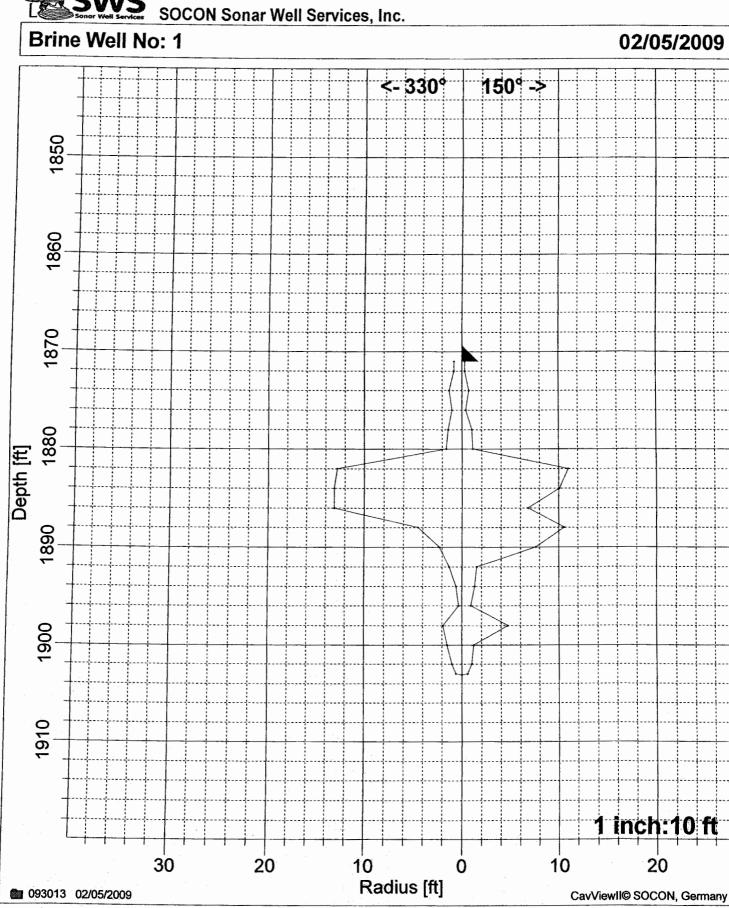
(02/05/2009)



CavViewII@ SOCON, Germany



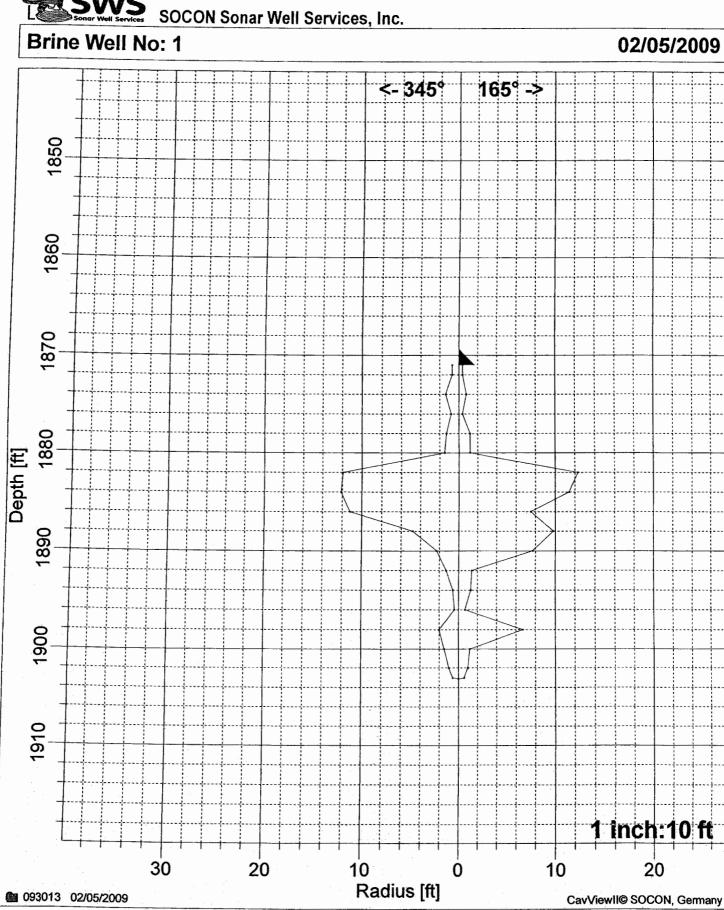
(02/05/2009)





**093013** 02/05/2009

(02/05/2009)



CavViewII@ SOCON, Germany

Brine Well No: 1

093013

02/05/2009

#### **HORIZONTAL SECTIONS**

Brine Well No: 1

Report No.: 093013

Utilized speed of sound: 5020 ft/s to 5020 ft/s

Measuring date: 02/05/2009

Scale:

1:10

Horizontal sections measured at following depths:

1880.0 ft 1882.0 ft 1871.0 ft 1872.0 ft 1878.0 ft 1874.0 ft 1876.0 ft 1896.0 ft 1884.0 ft 1886.0 ft 1894.0 ft 1888.0 ft 1890.0 ft 1892.0 ft 1898.0 ft 1900.0 ft 1903.0 ft 1902.0 ft



**Brine Well No: 1 MAXPLOT** 02/05/2009 1 inch:10 ft N 30 ft 10 ft 10 ft 20 ft 30 ft **1093013** 02/05/2009 CavViewII© SOCON, Germany Vertical maximum plot Horizontal sections a/b  $d_{max}: \ 55.1 \ ft \ 20^\circ <--> 200^\circ \quad r_{min}: \ 9.5 \ ft -> 120^\circ \quad r\sim: \ 16.5 \ ft \quad r_{max}: \ 41.0 \ ft -> 200^\circ$ a/b = 2.021 a = 55.6 ft (29°-200°) b = 27.5 ft (108°-295°) Area from vertical sections: 829 ft², Area from horizontal and vertical sections: 860 ft²



**Brine Well No: 1 MAXPLOT** 02/05/2009 1 inch:10 ft N 10 ft 30 ft @ 093013 02/Q5/200g CavViewII© SOCON, Germany a/b Largest single area Horizontal/vertical maximum plot  $d_{max}: \ 55.1 \ ft \ 20^{\circ} <--> 200^{\circ} \quad r_{min}: \ 9.5 \ ft \ -> 120^{\circ} \quad r_{\sim}: \ 16.5 \ ft \quad r_{max}: \ 41.0 \ ft \ -> 200^{\circ}$ a/b = 2.021 a = 55.6 ft (29°-200°) b = 27.5 ft (108°-295°)

Largest single area: 800 ft² in depth: 1882.0 ft, Area from horizontal and vertical sections: 860 ft²



Brine Well No: 1					093013					
Depth: 187	71.0 ft									
[°]					Radii in	[ft]				
0	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3
50	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
100	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3
150	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6
200	0.6	0.6	0.7	0.7	0.7	8.0	0.9	0.9	1.0	1.0
250	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9
300	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.7
350	0.6	0.6								
Depth: 187	2.0 ft									
[°]					Radii in	[ft]			1,000	
0	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4
50	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
100	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6
200	0.6	0.7	0.7	8.0	8.0	0.9	0.9	0.9	1.0	1.0
250	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	0.9	0.9	0.9	0.9	0.9	8.0	8.0	8.0	0.7	0.7
350	0.7	0.6								
Depth: 1874	4.0 ft									
[°]					Radii in	[ft]				
0	1.6	1.5	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.1
50	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	0.9
100	8.0	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7
150	0.7	0.7	8.0	0.8	8.0	0.9	1.0	1.2	1.3	1.2
200	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
250	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
300	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4
350	1.5	1.5								
Depth: 1876	6.0 ft									
[°]					Radii in				0.4	0.4
0	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4
50	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
100	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4
150	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7
200	8.0	8.0	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.2
250	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
300	1.1	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.9	8.0
350	0.8	0.8							-	



Brine Well No: 1					093013					
Depth: 18	78.0 ft									
[°]					Radii in	(ft]				
0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9
50	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
100	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0
150	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3
200	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5
250	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
300	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3
350	1.2	1.2								
Depth: 188	80.0 ft									
[°]			•		Radii in	[ft]				
0	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1
50	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1
150	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5
200	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8
250	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
300	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.5
350	1.5	1.4								
Depth: 188	2.0 ft									
[°]					Radii in	[ft]				
0	11.1	10.9	10.6	10.3	11.1	11.5	11.2	11.0	10.8	10.5
50	10.3	10.2	10.0	9.8	9.6	9.5	9.4	9.3	9.1	9.0
100	9.1	9.2	9.3	9.4	9.5	9.5	9.7	10.0	10.4	10.7
150	11.0	11.4	11.8	12.3	12.8	13.3	15.7	21.4	26.9	38.2
200	41.0	29.5	27.6	21.9	21.9	21.8	21.0	20.1	19.0	17.5
250	17.2	17.8	18.4	18.4	18.0	17.6	17.2	17.0	16.9	16.7
300	16.5	16.0	15.5	15.1	14.1	13.0	12.8	12.5	12.2	11.9
350	11.7	11.4								
Depth: 1884	1.0 ft									
[°]					Radii in					
0	9.8	9.0	10.2	13.0	14.1	14.5	14.8	13.8	11.0	9.7
50	9.5	9.2	9.0	8.8	8.7	8.6	8.6	8.5	8.5	8.4
100	8.4	8.3	8.2	8.1	8.1	8.4	8.7	9.0	9.3	9.6
150	10.1	10.5	10.9	11.4	11.8	13.5	17.1	20.7	24.9	29.9
200	28.9	24.9	16.7	11.7	12.0	12.4	13.3	13.5	13.3	13.2
250	13.4	13.8	14.2	14.6	17.0	17.6	18.2	18.1	17.8	17.6
300	17.1	16.3	15.4	14.7	13.9	13.3	13.1	13.0	12.8	12.1
350	11.3	10.5								



Brine Well No: 1					13	2/5/2009				
Depth: 188	86.0 ft									
[°]					Radii in	[ft]				
0	8.5	7.7	7.6	7.6	7.5	7.3	7.1	7.0	6.9	6.9
50	6.8	6.8	6.6	6.5	6.4	6.3	6.2	6.2	6.2	6.1
100	6.1	6.0	6.0	6.1	6.1	6.2	6.2	6.3	6.4	6.6
150	6.8	7.0	7.1	7.5	7.8	8.4	9.4	10.4	10.7	11.0
200	11.3	11.3	11.3	11.3	11.5	11.7	12.0	12.4	12.5	12.0
250	11.5	10.9	11.4	11.8	12.5	13.3	13.9	14.4	14.9	14.7
300	14.4	14.2	14.1	14.1	13.9	13.5	13.1	12.5	11.7	11.2
350	10.5	9.5								
Depth: 1888	8.0 ft									
[°]					Radii in	[ft]				
0	5.2	5.3	5.4	5.5	5.7	6.1	6.5	8.5	9.0	9.5
50	9.9	10.2	10.7	11.4	11.9	12.3	12.0	11.6	11.2	10.9
100	10.5	10.2	9.6	9.2	8.8	8.8	9.1	9.6	10.2	10.7
150	10.6	10.5	10.3	9.8	9.4	8.9	8.4	7.8	6.5	5.2
200	5.3	5.5	5.4	5.4	5.3	5.3	5.2	5.1	5.0	4.9
250	4.8	4.7	4.6	4.5	4.5	4.5	4.4	4.4	4.3	4.3
300	4.3	4.3	4.4	4.4	4.3	4.4	4.5	4.6	4.7	4.8
350	5.0	5.1								
Depth: 1890	).0 ft									
[°]					Radii in	(ft)				
0	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.7	2.8	2.9
50	3.0	3.2	3.0	2.8	2.7	2.6	2.6	2.6	2.8	3.0
100	3.3	3.5	3.7	4.1	4.5	4.9	5.3	5.6	5.7	7.5
150	7.6	7.8	7.8	7.7	7.6	4.0	2.7	2.5	2.5	2.8
200	3.0	2.9	2.7	2.7	2.6	2.6	2.5	2.4	2.2	2.1
250	2.0	1,9	1.9	1.8	1.7	1.6	1.6	1.6	1.6	1.7
300	1.7	1.9	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.3
350	2.3	2.3								
Depth: 1892	.0 ft									
[°]					Radii in	[ft]				
0	1.2	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9
50	2.0	2.1	2.3	2.6	3.6	4.4	4.8	5.3	6.0	6.0
100	6.1	3.2	2.4	2.0	1.8	1.7	1.6	1.6	1.5	1.5
150	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4
200	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.4
250	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
300	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
350	1.3	1.3								



## Sonar Well Services SOCON Sonar Well Services, Inc.

Brine Well		093013						2/5/2009		
Depth: 189	94.0 ft									
[°]					Radii in	[ft]				
0	0.7	0.7	8.0	0.9	1,0	1.0	1.1	1.2	1.2	1.3
50	1.5	1.6	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.8
100	1.8	1.7	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
150	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.0	0.9	8.0
200	8.0	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4
250	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
300	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
350	0.7	0.7								
Depth: 189	6.0 ft									
[°]					Radii in					
0	0.4	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.9	1.0
50	1.0	1.1	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4
100	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.0
150	0.9	8.0	8.0	0.7	0.6	0.6	0.5	0.4	0.4	0.3
200	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
250	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
300	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
350	0.4	0.4								
Depth: 1898	3.0 ft									
[°]					Radii in	[ft]				
0	2.2	2.3	2.3	2.4	2.5	2.6	2.7	2.9	3.1	3.2
50	3.2	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.0	2.9
100	2.9	2.9	2.9	2.8	3.0	3.2	3.5	3.8	4.1	4.4
150	4.7	5.2	5.9	6.7	8.0	10.0	11.2	3.3	3.2	3.0
200	2.8	2.6	2.4	2.2	2.1	2.1	2.0	2.0	2.0	2.0
250	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1,7
300	1.7	1.6	1.6	1.7	1.7	1.8	1.9	1.9	2.0	2.0
350	2.1	2.2								
Depth: 1900	.0 ft									
[°]					Radii in	[ft]				
0	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.4	1.4
50	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3
100	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
150	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5
200	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.7
250	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6
300	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
350	1.5	1.5								

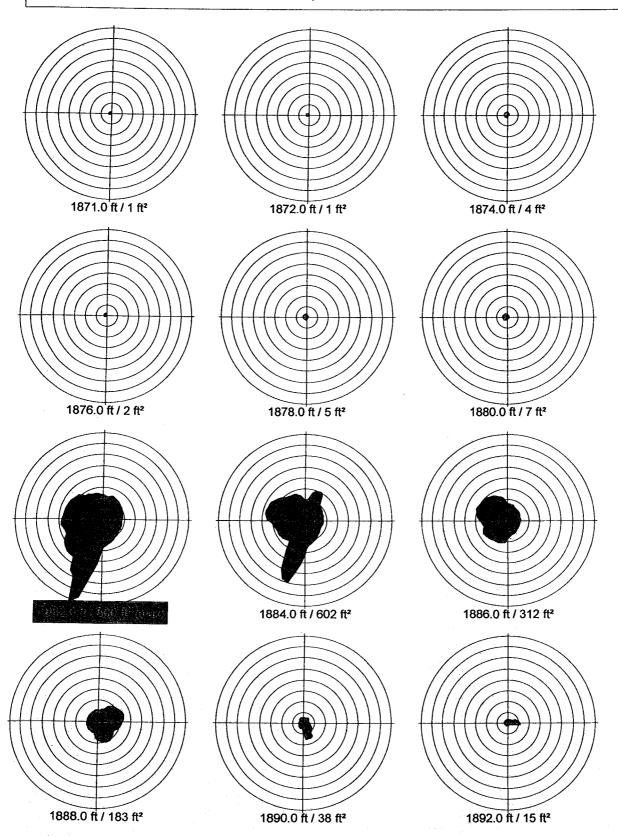


## Sonar Well Services SOCON Sonar Well Services, Inc.

Brine Well N	09301	13				2/5	/2009			
Depth: 1902 [°] 0 50 100 150 200 250 300 350	.0 ft  1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0	Radii in   1.0 1.0 1.0 1.0 1.0 1.0	[ft] 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.0
Depth: 1903 [°] 0 50 100 150 200 250 300 350		0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.6 0.6 0.6 0.6 0.6 0.6	0.6 0.6 0.6 0.6 0.6 0.6	Radii in 0.6 0.6 0.6 0.6 0.6 0.6 0.6	[ft] 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.6 0.6 0.6 0.6 0.6 0.6	0.6 0.6 0.6 0.6 0.6 0.6	0.6 0.6 0.6 0.6 0.6 0.6	0.6 0.6 0.6 0.6 0.6 0.6

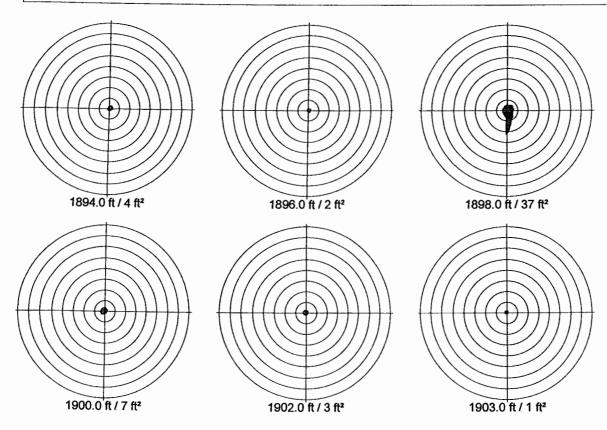


## SOCON Sonar Well Services, Inc. <u>Horizontal slices 1 - 12</u>



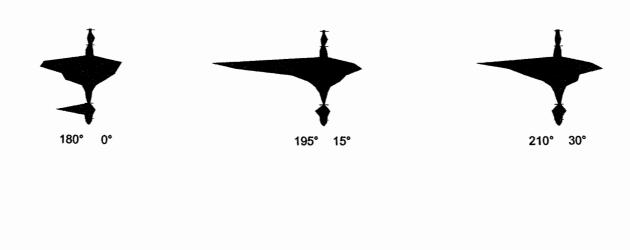


## Horizontal slices 13 - 18

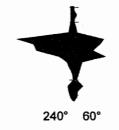




# SOCON Sonar Well Services, Inc. Vertical slices 1 - 6











## Vertical slices 7 - 12





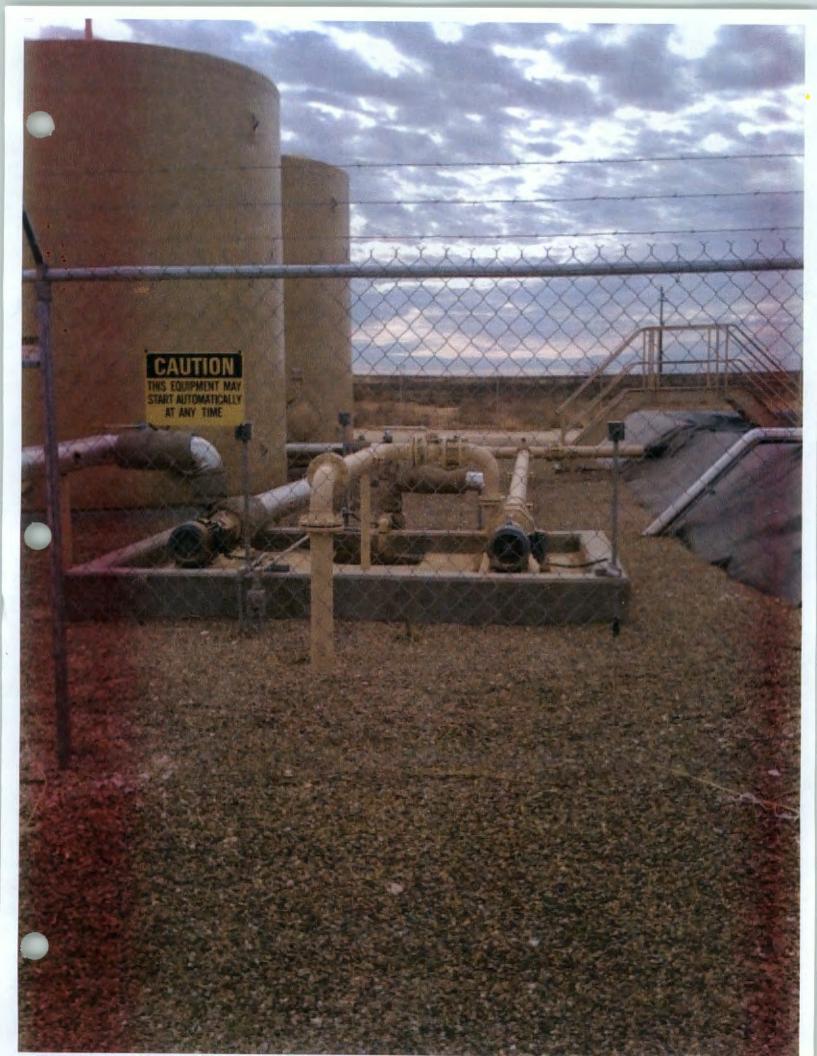


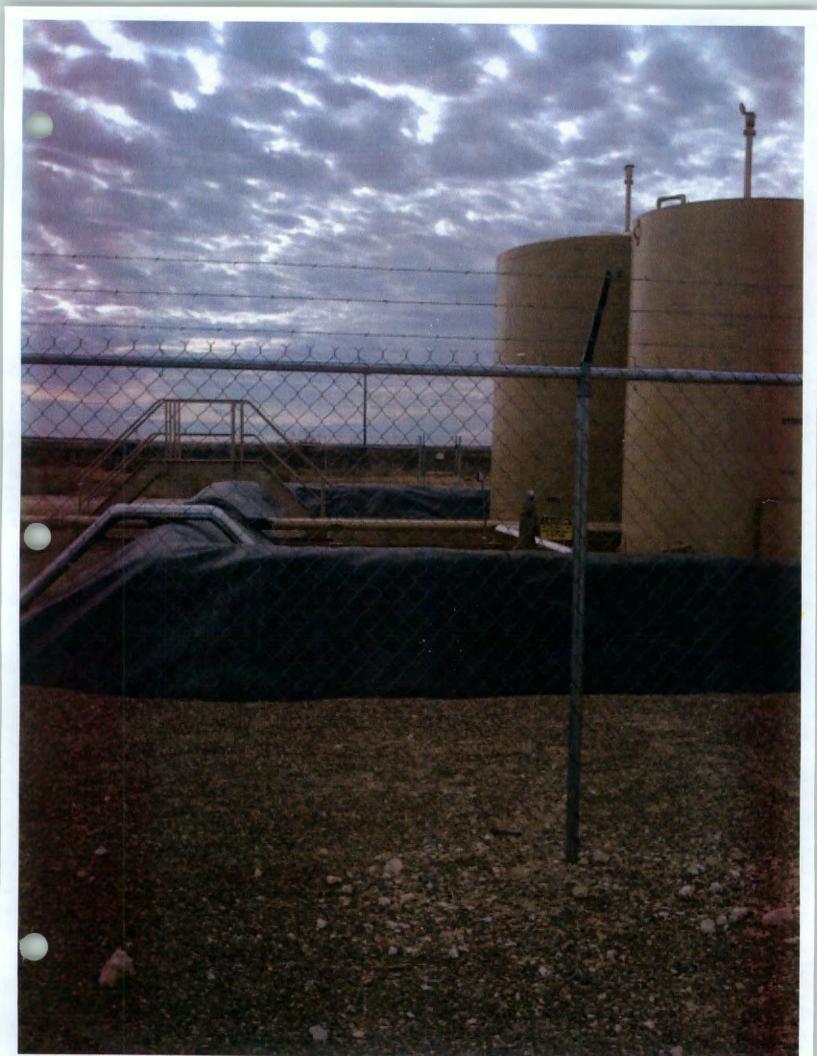


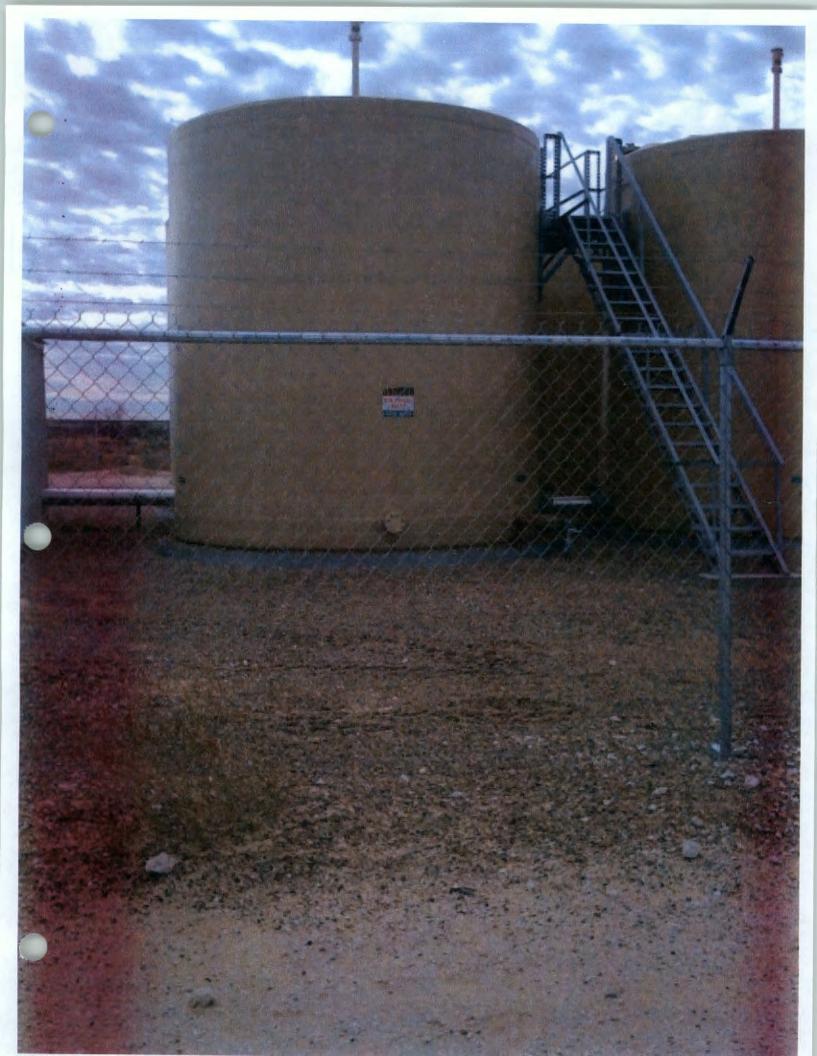




# Example of Future Modifications to Salty Dog







# Salty Dog Pictures





#### **Tully Martin**

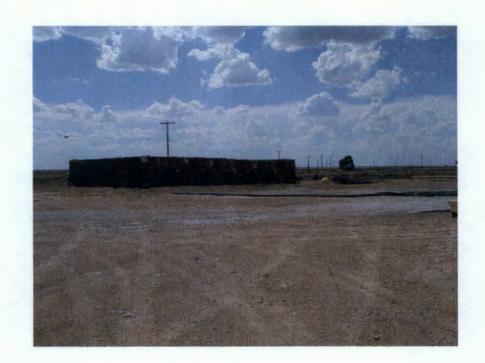
From: Sent: To: Subject: jon@thestandardenergy.com Wednesday, June 23, 2010 7:21 AM tully@thestandardenergy.com; jon@thestandardenergy.com

Saltydog

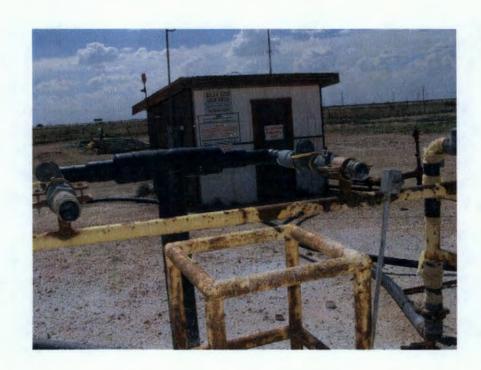
Get Kodak prints of this picture, and all your other favorites, at www.kodakgallery.com!

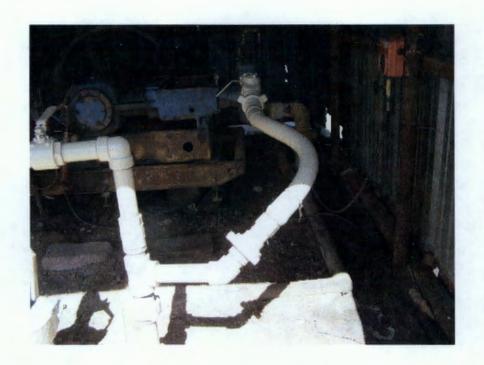


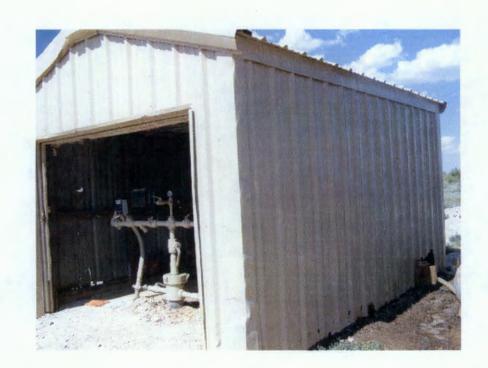


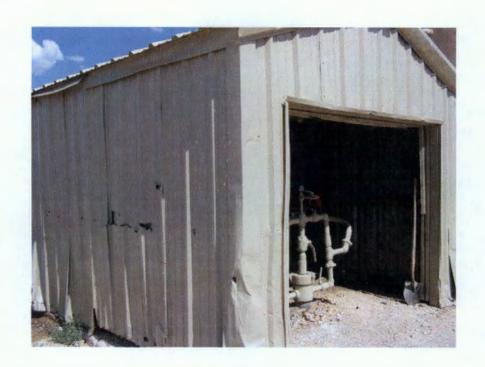


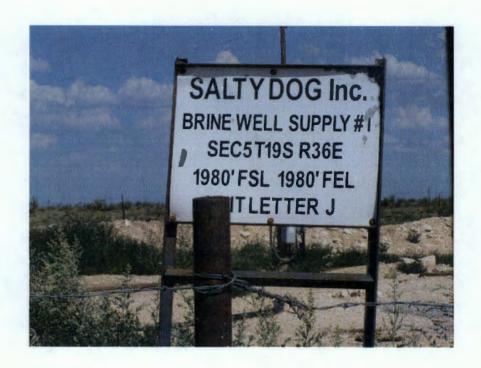












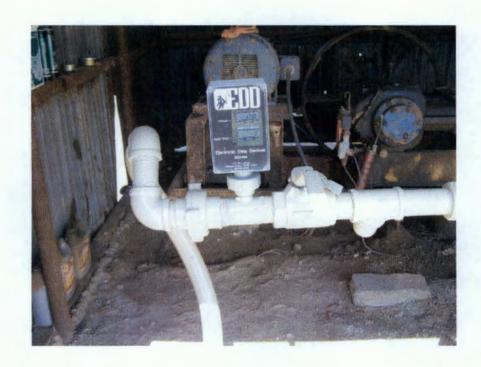




How to save a picture
Simply right-click on it, then "Save Image As...". (Mac users: drag the picture to your desktop.)



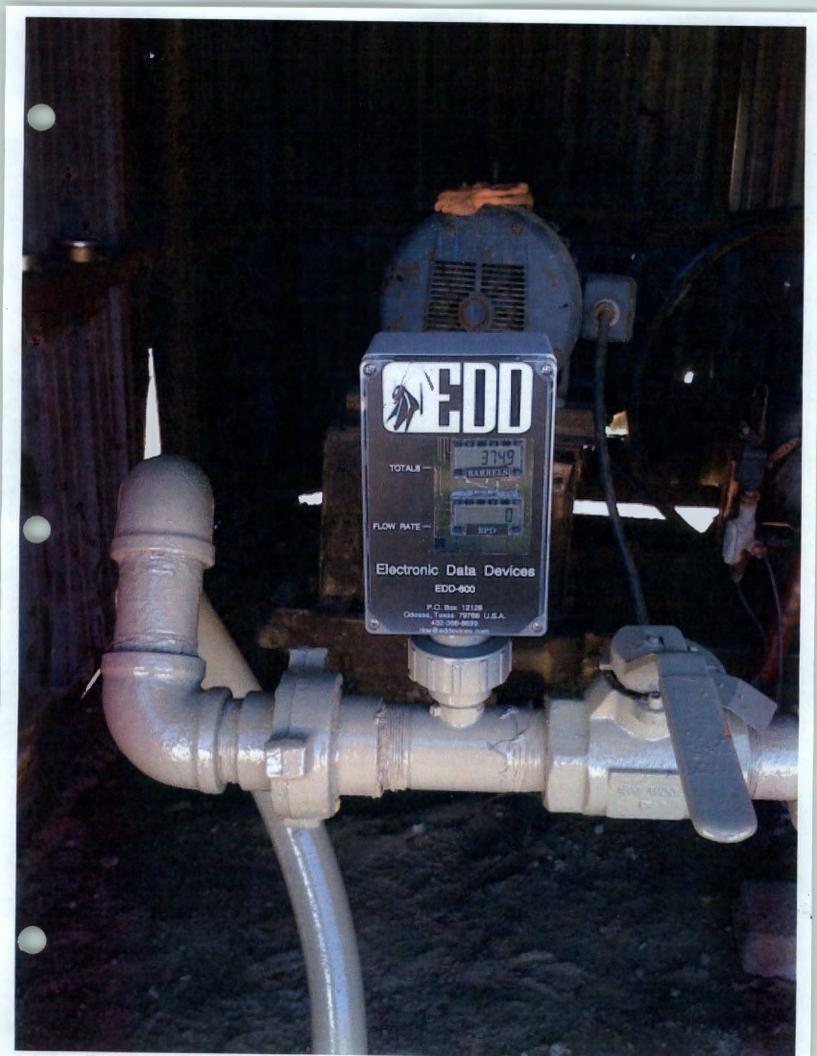




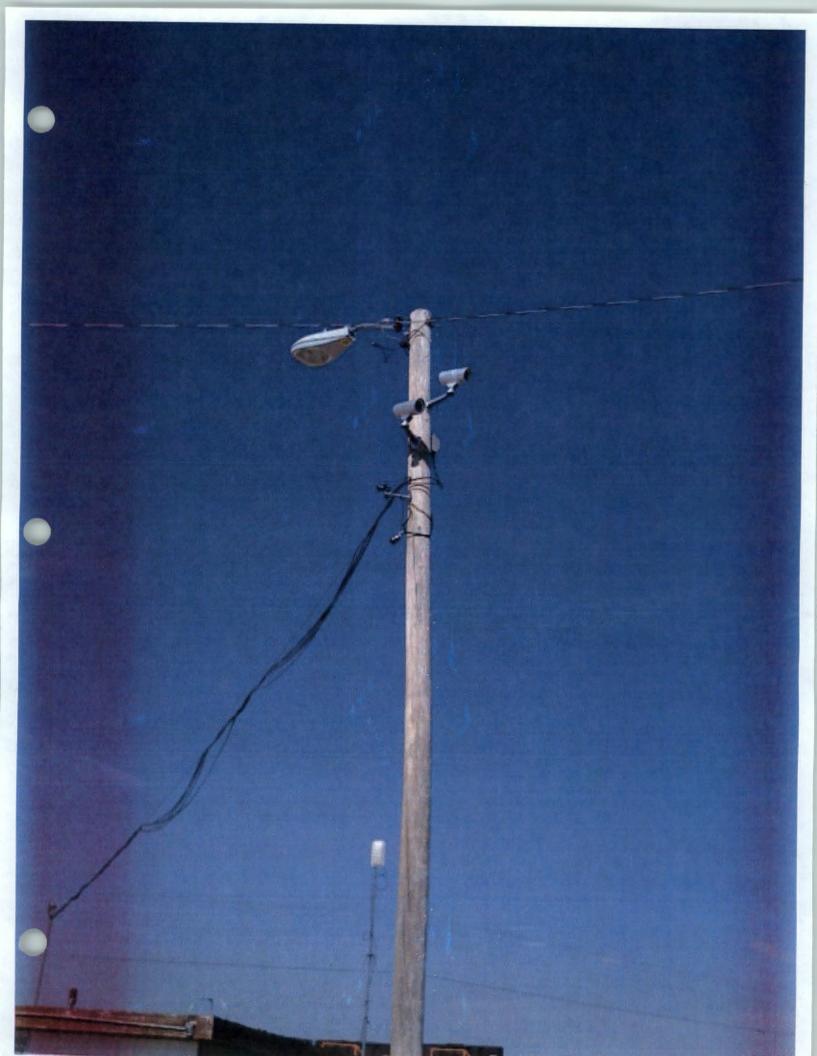


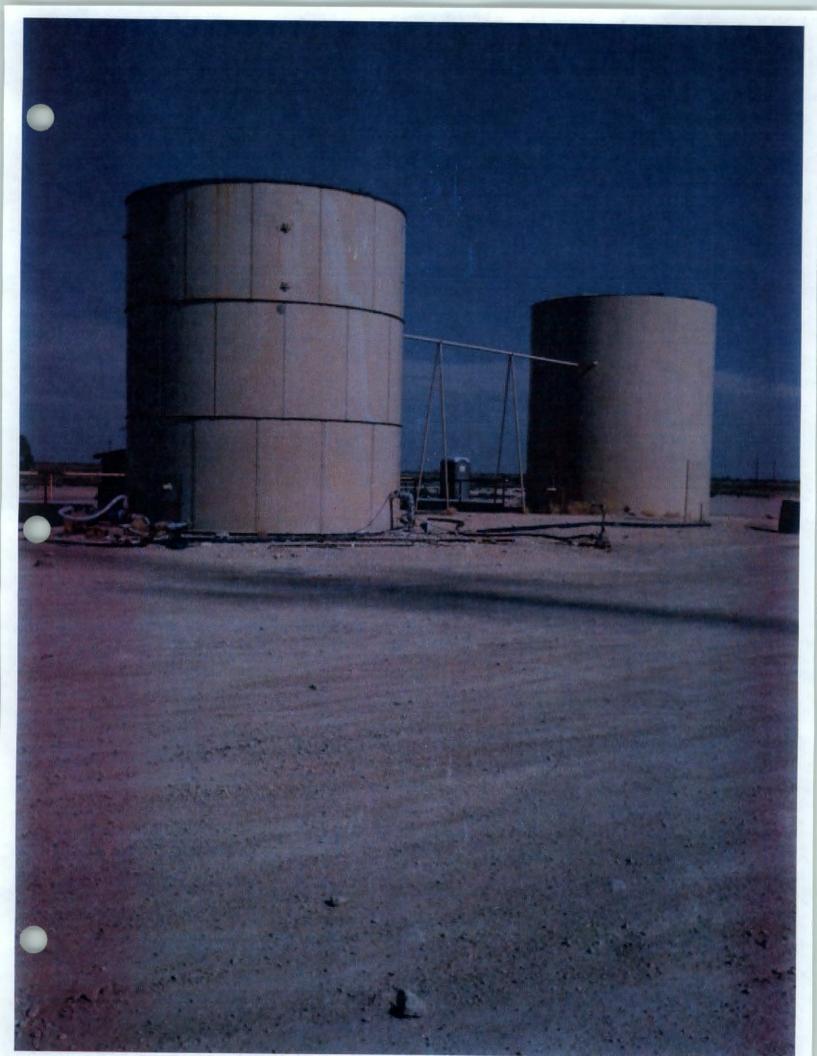


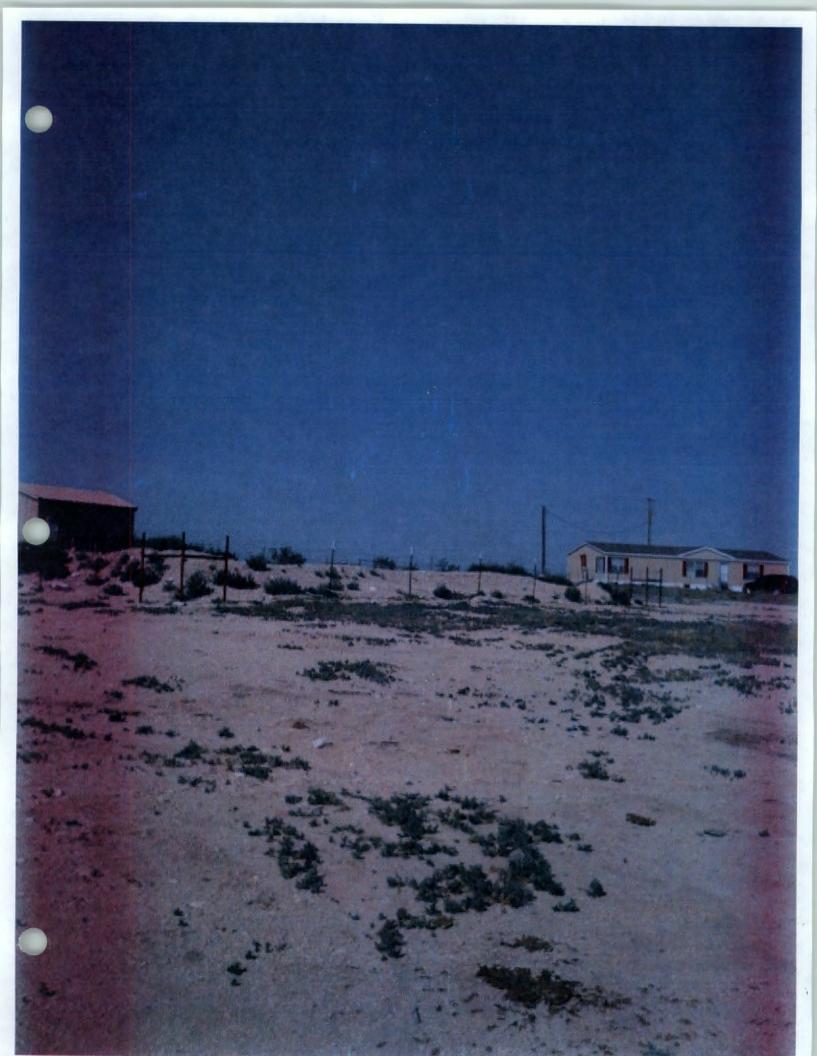














#### Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Friday, September 25, 2009 1:48 PM

To: 'Prather, Steve'; 'gandy2@leaco.net'; 'James Millett'; 'Clay Wilson'; 'Bob Patterson'; 'Blevins,

Sam'; 'David Pyeatt'; 'garymschubert@aol.com'

Cc: Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Griswold, Jim, EMNRD; Jones,

William V., EMNRD

Subject: New Mexico Oil Conservation Division Class III Solution Mining Well Operator Notice--

**ANNUAL REPORTS** 

#### Gentlemen:

#### Re: Annual Reporting

You are receiving this message because you are currently operating a Underground Injection Control (UIC) Class III Solution Mining Well in New Mexico under an Oil Conservation Division (OCD) Discharge Permit. You may be aware of the most recent events related to OCD Class III Wells in New Mexico and can find out more by visiting the OCD's Webste at <a href="http://www.emnrd.state.nm.us/OCD/brinewells.htm">http://www.emnrd.state.nm.us/OCD/brinewells.htm</a> and OCD Brine Well Work Group Website at <a href="http://ocdimage.emnrd.state.nm.us/imaging/AEOrderFileView.aspx?appNo=pCJC0906359521">http://ocdimage.emnrd.state.nm.us/imaging/AEOrderFileView.aspx?appNo=pCJC0906359521</a>.

The OCD is writing to inform you that it will be monitoring the receipt of your "Annual Reports" under the applicable section of your OCD discharge permit. The OCD has been deficient in tracking reporting obligations in the past; however, the OCD has recently upgraded our online system to track operators who are not meeting the reporting requirements specified in OCD Discharge Permits. Please plan on submitting the report with the required information by the date required in your discharge permit.

To access your OCD Discharge Permit Online for the date of submittal and contents of the report, please go to OCD Online at <a href="http://ocdimage.emnrd.state.nm.us/imaging/AEOrderCriteria.aspx">http://ocdimage.emnrd.state.nm.us/imaging/AEOrderCriteria.aspx</a> (enter "Order Type" as BW and your "Order Number"). If you have not submitted an Annual Report (report) for your well, a historical review of your injection and production records will be required in order to provide cumulative injection and production information in this year's report.

Please contact me if you have questions or need assistance.

Thank you in advance for your cooperation in this matter.

Copy: Brine Well Files BWs 2, 4, 8, 22, 25, 27, 28, 30 & 31

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505

Office: (505) 476-3490 Fax: (505) 476-3462

E-mail: CarlJ.Chavez@state.nm.us

Website: <a href="http://www.emnrd.state.nm.us/ocd/index.htm">http://www.emnrd.state.nm.us/ocd/index.htm</a> (Pollution Prevention Guidance is under "Publications")