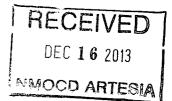
BOPCO



Poker Lake Unit #114

CLOSURE REPORT

2RP-1100-0

API No. 30-015-28102

Release Date: 3/27/2012

Unit Letter F, Section 36, Township 24 South, Range 30 East

December 12, 2013

Prepared by:

Environmental Department Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 Phone: (575)964-8394 Fax: (575)393-8396

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- 2 Site Activities
- 3 Conclusion

Figure – Site Diagram with Sample Data

APPENDICES

Appendix I – Initial Form C-141

Appendix II – Site Photographs

Appendix III – Groundwater Data

Appendix IV – Laboratory Analyses

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575)964-8394

Poker Lake Unit #114

1 INTRODUCTION

Bass Enterprises Production Company (Bopco) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located southeast of Carlsbad, NM, in Eddy County. The site resulted from an accidental opening of a 1/2 inch valve on the well head. The leak released produced water and crude oil onto approximately 2,400 square feet of the well pad. The valve handle was removed and the valve was plugged. An initial form C-141 was submitted to the NMOCD on April 10, 2012 (Appendix I).

2 SITE ACTIVITIES

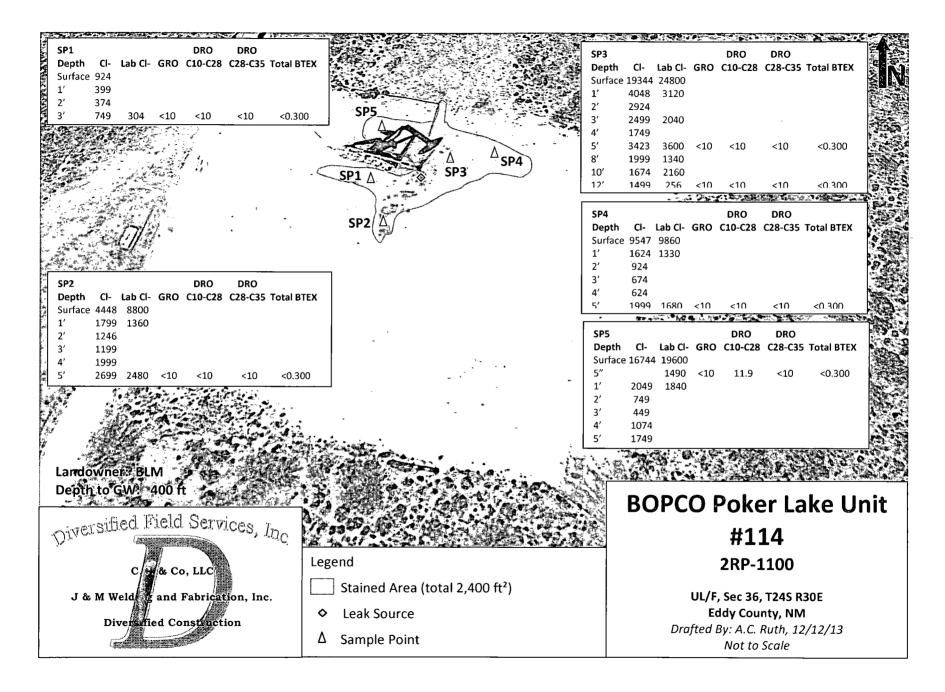
On October 23, 2013, DFSI personnel collected soil samples by hand auger from the site (Figure). The samples were field screened for chloride and headspace measurements, were collected using a photoionization detector (PID). The sample auger was refused after the 5 foot samples were collected. Samples were submitted to a commercial laboratory for chloride, TPH (GRO/DRO), and BTEX analyses (Appendix IV). On October 31, 2013, DFSI personnel returned to collect additional soil samples at SP3 using a backhoe to determine the total depth of impact at the site. Samples were collected to 12 feet below ground surface (bgs) at which point chloride decreased to 256 mg/kg. GRO, DRO (C10-C28), and DRO (C28-C35) were each less than 10 mg/kg.

DFSI personnel excavated the site to 2 feet bgs and installed a reinforced 20 mil plastic liner at that depth. Impacted soils were removed to a NMOCD approved disposal facility. The excavation was backfilled with a 1 foot lift of pad sand above the plastic liner. The excavation was capped with a 1 foot lift of caliche, and the site was leveled. Photographs of site activities can be viewed in Appendix II.

3 CONCLUSION

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater within two miles of the site is approximately 400 ft. bgs (Appendix III). Based on the removal of soils containing elevated chloride and visual staining, and the installation of a liner, Bopco respectfully requests the closure of the regulatory file for the site.

Figure: Site Diagram with Sample Data



.

Appendix I

INITIAL FORM C-141

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

3

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

RECEIVED	Form C-141 Revised October 10, 2003
APR 11 2012 Distri	2 Copies to appropriate ct Office in accordance with Rule 116 on back
MACOD ADTECH	side of form

NMOCD ARTESIA

30-015-28102	Release Notificat	ion and Corrective Actio)n	
1MLB 1211138154		OPERATOR	Initial Report	Final Report
Name of Company BOPCO, L.P.	260731	Contact Tony Savoie		
Address 522 W. Mermod, Suite 704	4 Carlsbad, N.M. 88220	Telephone No. 432-556-8730		
Facility Name Poker Lake Unit #11	4	Facility Type E&P		

Surface Owner State Of N.M.

Mineral Owner State of N.M.

Lease No. 8910000303E

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	36	24S	30E	1982	North	2019	West	Eddy

Latitude_N 32.176120___ Longitude W 103.836300

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 10 bbls	Volume Recovered: 0
	produced water and 5 bbls crude	
	oil	
Source of Release: 1/2" valve on the wellhead	Date and Hour of Occurrence	Date and Hour of Discovery
	3/27/12 Time unknown	3/27/12 2:00 p.m.
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 📋 No 🛛 Not Required		
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	ercourse.
🗌 Yes 🖾 No		
10. We are a famoust Day (fr. D. H. +	1	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* A 1/2" valve of	Also wellback was and do to the	d the velocity handle upon some upd and the
	The wennead was accidentally opene	a, the valve handle was removed and the
valve was plugged. Describe Area Affected and Cleanup Action Taken.*An area covering ap	and the selicity 2400 as A and the selicity	well and we affected by the veloces the
saturated soil was scraped up and stockpiled on site. The spill will be rem	originately 2400 sq.n. on the callene	well pad was affected by the release, the
I hereby certify that the information given above is true and complete to t	ediated following the NMOCD guider	and that purposent to NMOCD pulse and
regulations all operators are required to report and/or file certain release n	atifications and perform correction co	tions for releases which may and an arr
public health or the environment. The acceptance of a C-141 report by th	a NMOCD marked as "Final Depart"	do so not relieve the encenter of lightlity
should their operations have failed to adequately investigate and remediat	e contamination that nose a threat to a	goes not reneve the operator of hability
or the environment. In addition, NMOCD acceptance of a C-141 report d	ares not relieve the operator of response	sibility for compliance with any other
federal, state, or local laws and/or regulations.	bes not remeve the operator of respons	somey for compliance with any other
	OUL CONSERV	ATION DIVISION
	<u>OIL CONSERV</u>	ATION DIVISION
Signature: 194 Danua	All all	Kennen
	Approved by DigmettsBgervisor1/4	Kithitaller
Printed Name: Tony Savoie		
Title: Waste Mgmt & Remediation Specialist	Approval Date APR 2:0 2012	Expiration Date:
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:	
· · · · · · · · · · · · · · · · · · ·	diation per OCD Rule	es & Attached
Date: 4/10/12 Phone:432-556-8730	Guidelines. SUBMIT REMEDIA	TION
Attach Additional Sheets If Necessary	Guidelines. SUBINIT REINEE	•
	DRODOSAL NOT LATER THAN	• • • •
	5/20/2012	- 2RP-1100

Appendix II

SITE PHOTOGRAPHS

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

BOPCO PLU #114

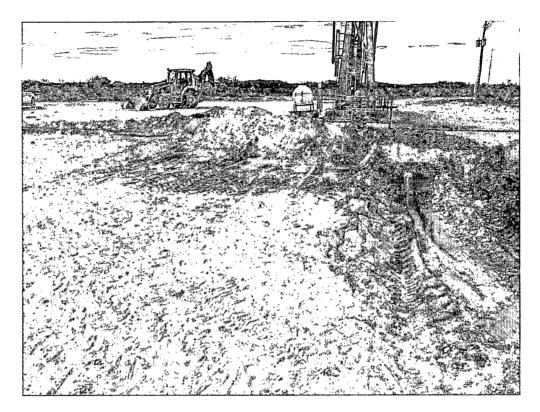
Unit Letter F, Section 36, T24S R30E



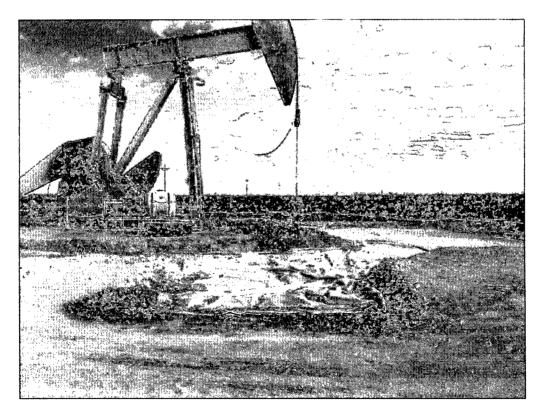
Sign marking location 10/26/13



Spill location SW of lease road 10/26/13



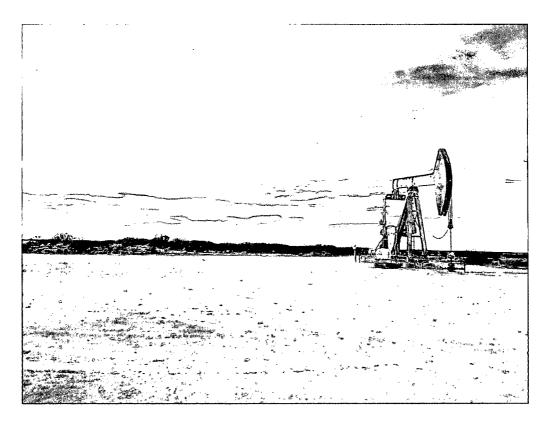
Soil excavation 11/02/13



Installation of liner 11/02/13



Backfill of lined area 11/16/13



Site at completion 12/3/13

Appendix III

GROUNDWATER DATA

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

		BOPCO PLU #114		
UL:	F Sec:	<u> </u>	24S	R: 30E
Groundwa	ter Depth:	~118	ft. aver	aged
 o = NM Office of the ● = U.S. Geological S ⇒ = Site Location 	e State Engineer Gurvey (unknown well		V trend map - 200 to	225 ft bgs Date: 11/11/13 By: Amy Ruth
			354' S Labs MON	
		85' JM Trst COM	000168'US	BLM STK
10' IM 16' Mosaic MON	235 296	23S 30E	 125' JM Trst STK 235 31E 	
38' JG IRR 30' SF Energy PRO/DE	44' Mosaic MON 0 0 0 18' IMC K	440' BLM STK O	160' Texac	o/PRO, GRR&CM/IRR
36' SWS Co MON 26' SWS Co MON	18' RBWPC Dist	186' M&M Cattle Co	. STК с	o o m of Pub Lands PRO
4' USGS PRO/	24S 29E	24S 30E	24S 31E	
			00' CW Icdonald STK	
40' Gulf Oil PRO/DEV	 40' AGC DOM 60' TKWC Bank STH 25S 29E 30' JN STK 	25S 30E	25S 31E © 390' BJT ST	к

DEPTH TO GROUNDWATER



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)				V 2=NE 3=SW est to largest)		UTM in meters)		(In feet)
	Sub-	۵۵۵		_				Depth Water
POD Number C 00571	Code basin Count C ED	-		Tws Rng 23S 29E	X 591241	ү 3570957* 🖏	Well 89	Water Column 38 51
C 00571 CLW241602	O ED	333	30	23S 29E	591241	3570757* 🌍	89	38 51
C 01217 S	ED	4 1 4	16	23S 29E	595413	3574403* 🌍	350	
C 01627	C ED	144	28	23S 29E	595649	3570959* 🌍	170	
<u>C 02182</u>	C ED	4	30	23S 29E	592328	3571048* 🌍	75	30 45
<u>C 02608</u>	ED	314	17	23S 29E	593598	3574387* 🍪	400	
C 02613	ED	442	20	23S 29E	594203	3573176* 🍪	400	
<u>C 02704</u>	C ED	1	19	23S 29E	591531	3573493* 🌍	174	
C_02705	C ED	2	17	23S 29E	593902	3575093* 🌍	68	28 40
C 02706	C ED	4	18	23S 29E	592302	3574291* 🍪	17	10 7
C 02707	C ED	2	28	23S 29E	595535	3571868* 🍪	40	18 22
C 02715	ED	413	15	23S 29E	596221	3574411* 🌍	400	
<u>C 02716</u>	ED	444	16	23S 29E	595818	3574002* 🍪	400	
<u>C 02717</u>	ED	424	16	23S 29E	595817	3574407* 🚱	400	
<u>C 02718</u>	ED	442	16	23S 29E	595816	3574812* 🍪	400	
<u>C 02720</u>	ED	2 1	21	23S 29E	594911	3573690* 🍪	150	
C 02721	ED	23	21	23S 29E	594915	3572879* 🍪	150	
<u>C 02792</u>	ED	4 3	04	23S 29E	594868	3577336* 🍪	200	
C 02793	ED	4 3	04	23S 29E	594868	3577336* 🍪	100	
<u>C 02794</u>	ED	43	10	23S 29E	596518	3575731* 🍪	100	
<u>C 02795</u>	ED	4 3	10	23S 29E	596518	3575731* 🍪	200	
<u>C 02797</u>	ED	23	22	23S 29E	596540	3572895* 🍪	200	
C 02804	ED	2 1	08	23S 29E	593262	3576905* 🍪	100	
C 02805	ED	2 1	08	23S 29E	593262	3576905* 🍪	100	
<u>C 02806</u>	ED	1 1	09	23S 29E	594473	3576927* 😜	100	
C 02807	ED	1 1	09	23S 29E	594473	3576927* 🍪	100	

*UTM location was derived from PLSS - see Help

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed) POD	(quai						↓E 3=SW ∋ largest)	'	3 UTM in meters)		(In feet))
	Sub-		Q	_				_			-	Depth	
POD Number C 02808	Code basin (ED	64				: Tws 23S	-	X 594909	Y 3574501* 🚱	Well 100	Water	Column
<u>C 02806</u>		EU		2	3	10	200	29E	594909	3574501	100		
C 02809		ED		2	3	16	23S	29E	594909	3574501* 🎲	100		
C 03057 EXPLORE		ED	4	1	1	21	23S	29E	594605	3573586* 🍪	150		
C 03058 EXPLORE		ED	4	1	1	16	23S	29E	594605	3575206* 🎲	150		
C 03059 EXPLORE		ED	4	1	3	17	23S	29E	592993	3574378* 🍪		65	
C 03587 POD1	С	ED	1	4	3	29	23S	29E	593338	3570754 🍪	99	44	55
C 03587 POD2	С	ED	1	2	4	19	23S	29E	592213	3572706 🍪	77	16	61
										Average Depth to	Water:	31 f	eet
										Minimum	Depth:	10 fe	eet

Maximum Depth: 65 feet

Record Count: 33

PLSS Search:

Township: 23S Range: 29E

'UTM location was derived from PLSS - see Help



(with Ownership Information)

	(acre	e ft per annum)		(R=POD has been replaced and no longer serves this file, C=the file is closed)			NW 2=NE 3=SW 4	•	1 in meters)	
	Sub					999	· · · · · · · · · · · · · · · · · · ·			
WR File Nbr	basin Use D	iversion Owner	County POD Number	Code Grant	Source	6416 4	Sec Tws Rng	х	Y	
C 00571	C IRR	362.4 JOHNNIE GIOVENGO, JR.	ED <u>C 00571</u>		Shallow	133	30 23S 29E	591241	3570957* 🍪	
<u>C 03121</u>	C DOL	3 JOHNNIE GIOVENGO, JR.	ED <u>C 00571</u>		Shallow	133	30 23S 29E	591241	3570957 🞸	

Record Count: 2

POD Search:

POD Number: C 00571

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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11/12/13 10:27 AM



(with Ownership Information)

				(R=POD has been replaced						
				and no longer serves this file,	(quarters	s are 1=	NW 2:	=NE 3=SW	4=SE)	
	(acre ft	per annum)		C=the file is closed)	(quarters	s are sn	nallest	to largest)	(NAD83 UTM	A in meters)
	Sub					999				
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source	6416 4	Sec	Tws Rng	x	Y
C 02182	C PRO	0 SANTA FE ENERGY	ED <u>C 02182</u>		Shallow	4	30	23S 29E	592328	3571048* 🦓

Record Count: 1

POD Search:

POD Number: C 02182

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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11/12/13 10:45 AM



(with Ownership Information)

		•		(R=POD has been replaced						
				and no longer serves this file,	(quarter	rs are 1	=NW	2=NE 3=SW	4=SE)	
		(acre ft per annum)		C=the file is closed)	(quarter	rs are s	malle	st to largest)	(NAD83 UTM	A in meters)
	Sub					qq	q			
WR File Nbr	basin U	se Diversion Owner	County POD Number	Code Grant	Source	6416	4 Se	: Tws Rng	х	Y
<u>C 02705</u>	С	0 IMC KALIUM	ED <u>C 02705</u>		Shallow	:	2 17	23S 29E	593902	3575093* 🍪

Record Count: 1

POD Search:

POD Number: C 02705

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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11/12/13 10:46 AM



(with Ownership Information)

				(R=POD has been replaced						
				and no longer serves this file,	(quarters	are 1=	NW 2	ene 3=SW	4=SE)	
		(acre ft per annum)		C=the file is closed)	(quarters	are srr	nalles	t to largest)	(NAD83 UTN	1 in meters)
	Sub				c	qqq				
WR File Nbr	basin Us	se Diversion Owner	County POD Number	Code Grant	Source 6	6416 4	Sec	Tws Rng	х	Y
C 02707	С	0 IMC KALIUM	ED <u>C 02707</u>		Shallow	2	28	23S 29E	595535	3571868* 🍪

Record Count: 1

POD Search:

POD Number: C 02707

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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11/12/13 10:50 AM



(with Ownership Information)

			(R=POD has been replaced		
			and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4:	=SE)
	(acre ft per annum)		C=the file is closed)	(quarters are smallest to largest) (f	NAD83 UTM in meters)
	Sub			999	
WR File Nbr	basin Use Diversion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y
<u>C 03587</u>	MON 0 MOSAIC POTASH CARLSBAD INC	ED <u>C 03587 POD1</u>		Shallow 1 4 3 29 23S 29E	593337 3570754 🎸

Record Count: 1

POD Search:

POD Number: C 03587 POD1

Sorted by: File Number



(with Ownership Information)

				(R=POD has been replaced		
				4=SE)		
	(acre f	t per annum)		C=the file is closed)	(quarters are smallest to largest) ((NAD83 UTM in meters)
	Sub				qqq	
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y
<u>C 02095</u>	STK	8 BUREAU OF LAND MANAGEMENT	ED <u>C 02095</u>		2 3 34 23S 30E	606337 3569759 🍪

Record Count: 1

POD Search:

POD Number: C 02095

Sorted by: File Number

"UTM location was derived from PLSS - see Help

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10/11/13 10:29 AM



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(quar						IE 3=SW		3 UTM in meters)		(In feet)
	POD												
	Sub-	. .		Q		~	_	_					Water
POD Number	Code basin (64						X			Water	Column
C 02258	С	ED		3	2	26	23S	315	618055	3571853* 🏵	662		
<u>C 02348</u>	С	ED	1	4	3	26	23S	31E	617648	3571068 🌍	500		
<u>C 02492</u>		ED	4	4	4	06	23S	31E	612056	3577320* 🌍	135	85	50
C 02492 POD2	С	ED	3	2	2	07	23S	31E	611767	3576996 🍪	400	125	275
<u>C 02664</u>		ED	3	3	2	05	23S	31E	613049	3578138* 🍪	4291	354	3937
<u>C 02725</u>		ED	1	1	1	05	23S	31E	612240	3578731* 🍪	532		
<u>C 02773</u>		ED	4	1	3	03	23S	31E	615668	3577762* 🍪	880		
<u>C 02774</u>		ED	3	1	3	04	23S	31E	613857	3577745* 🍪	1660		
<u>C 02775</u>		ED	1	1	1	05	23S	31E	612240	3578731* 🍪	529		
<u>C 02776</u>		ED	2	1	1	05	23S	31E	612440	3578731* 🍪	661		
<u>C 02777</u>		ED	2	2	2	15	23S	31E	616905	3575562* 🕎	1001		
C 02865		ED	4	4	4	06	23S	31E	612056	3577320* 🍪	174		
C 02954 EXPL		ED	3	1	4	20	23S	31E	613114	3572906* 🌍	905		
C 03140		ED	4	2	4	04	23S	31E	615266	3577758* 🍪	684		
C 03351	С	ED	4	1	4	04	23S	31E	614917	3577861 🍣	320	168	152
C 03520 POD1	С	ED	3	1	1	07	23S	31E	610733	3576905 🍪	500		
										Average Depth to	Water:	183 f	eet
										Minimum	Depth:	85 f	eet
										Maximum	Depth:	354 f	eet

Record Count: 16

PLSS Search:

Township: 23S R

Range: 31E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

				4-65)		
				4=SE)		
	(acre	ft per annum)		C=the file is closed)	(quarters are smallest to largest)	(NAD83 UTM in meters)
•	Sub				999	
WR File Nbr	basin Use Di	version Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y
<u>C 02492</u>	COM	105 THE JIMMY MILLS GST TRUST	ED <u>C 02492</u>		Shallow 4 4 4 06 23S 31E	612056 3577320 🤯
<u>C 03668</u>	C STK	3 J T MILLS 2005 GST TRUST	ED <u>C 02492 POD2</u>		Shallow 3 2 2 07 23S 31E	611767 3576996 🕁

Record Count: 2

POD Search:

POD Number: C 02492

Sorted by: File Number

*UTM location was derived from PLSS - see Help



(with Ownership Information)

				(R=POD has been replaced							
			and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)								
	(acre ft	per annum)		C=the file is closed)	(quarters are smallest to largest) (I	NAD83 UTM in meters)					
	Sub				999						
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416.4 Sec Tws Rng	X Y					
<u>C 03668</u>	C STK	3 J T MILLS 2005 GST TRUST	ED <u>C 02492 POD2</u>		Shallow 3 2 2 07 23S 31E	611767 3576996 🎸					

Record Count: 1

POD Search:

POD Number: C 02492 POD2

Sorted by: File Number



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

			(R=POD has been replaced and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4	=SE)
	(acre ft per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in meters)
	Sub			999	
WR File Nbr	basin Use Diversion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y
C 02664	MON 0 SANDIA NATIONAL LABORATORIES	ED <u>C 02664</u>		Shallow 3 3 2 05 23S 31E	613049 3578138 👍

Record Count: 1

POD Search:

POD Number: C 02664

Sorted by: File Number

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/15/13 4:01 PM



(with Ownership Information)

						(R=POD has been replaced and no longer serves this file,	(quarters are 1:	=NIM 2=	-NE 3-SW	1=SE)	
		(acre ft per a	annum)			C=the file is closed)	(quarters are sr				in meters)
	6h	(acre it per i					· ·		to largesty		in meters)
	Sub		_	_			q q q				
WR File Nbr	basin	Use Diversio	n Owner	County	POD Number	Code Grant	Source 6416 4	Sec	Tws Rng	X	Y
<u>C 03351</u>	с	STK	3 UNITED STATES BUREAU OF LAND MANAGEMENT	ED	<u>C 03351</u>		Shallow 4 1 4	04	23S 31E	614916	3577861 🕁

Record Count: 1

POD Search:

POD Number: C 03351

Sorted by: File Number



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	been O=orj	OD has replaced ohaned, e file is d)	(quai							V 4=SE)) (NAD8	3 UTM in meters)		(In feet)
POD Number C 00349	Code C	POD Sub- basin (CUB	County ED			5 4		• Tws 24S	-	X 591401	Y 3564773* 6		Depth Water	Water Column
C 00381	С	С	ED	3			07	24S		591682	3566297* 🌍	2797		
C 00463		С	ED	4	4	4	17	24S	29E	594332	3564282* 🌍	260	4	256
<u>C 00856</u>			ED	1	2	4	30	24S	29E	592538	3561644* 🌍	380		
<u>C 00857</u>			ED	3	1	4	30	24S	29E	592135	3561440* 🍪	306		
<u>C 00862</u>			ED	1	2	4	30	24S	29E	592538	3561644* 🍪	155		
C 00863			ED	3	3	1	16	24S	29E	594524	3565091* 🌍	220		
C 00863 CLW199506	0		ED	3	3	1	16	24S	29E	594524	3565091* 🏈	220		
<u>C 02713</u>		С	ED	4	4	1	16	24S	29E	591633	3565944 🌍	230	18	212
C 03615 POD1		С	ED	1	3	2	06	24S	29E	591964	3568500 🌍	60	36	24
C 03615 POD2		С	ED	4	2	4	06	24S	29E	592661	3568013 🌍	60	26	34
											Average Depth to	o Water:	21 f	eet
											Minimun	n Depth:	4 f	eet

Minimum Depth:

Maximum Depth: 36 feet

Record Count: 11

PLSS Search:

Township: 24S Range: 29E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

				(R=POD has been replaced				
				and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)				
	(acre ft	per annum)		C=the file is closed) (quarters are smallest to largest) (NAD83				
	Sub				999			
WR File Nbr	basin Use Dive	rsion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	ХҮ		
<u>C 00463</u>	C PRO	0 U.S. GEOLOGICAL SURVEY	ED <u>C 00463</u>		Shallow 4 4 4 17 24S 29E	594332 3564282 🍪		

Record Count: 1

POD Search:

POD Number: C 00463

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

(acre ft per annum)					(R=POD has been replaced and no longer serves this file, C=the file is closed)			=NW 2=NE 3=SW mallest to largest)		in meters)
WR File Nbr	Sub basin Use Di	version Owner	Count	v POD Number	Code Grant	Source	q q q	4 4 Sec Tws Rng	x	v
C 02713	IND	645 RED BLUFF WATER POWER CONTROL DISTRICT		<u>C 02713</u>				1 16 24S 29E	591633	3565944 🌄
C 03360	C PRO	0 REEF EXPLORATION	ED	<u>C 02713</u>		Shallow	v 4 4 ·	1 16 24S 29E	591633	3565944 🍪

Record Count: 2

POD Search:

POD Number: C 02713

Sorted by: File Number



(with Ownership Information)

	((R=POD has been replaced and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4=SE)			
	(acre ft per annum)		C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in m				
	Sub			999			
WR File Nbr	basin Use Diversion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng X	Y		
C 03615	C MON 0 SOUTHWEST SALT COMPANY LLC	ED <u>C 03615 POD1</u>		Shallow 1 3 2 06 24S 29E 591963 3568	3500 🌄		

Record Count: 1

POD Search:

POD Number: C 03615 POD1

Sorted by: File Number



(with Ownership Information)

				and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4	=SE)	
	(acre ft	per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM	in meters)
	Sub				999		
WR File Nbr	basin Use Dive	rsion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	х	Y
C 03615	C MON	0 SOUTHWEST SALT COMPANY LLC	ED <u>C 03615 POD2</u>		Shallow 4 2 4 06 24S 29E	592661	3568013 🍪

Record Count: 1

POD Search:

POD Number: C 03615 POD2

Sorted by: File Number



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(quai						IE 3=SW largest)	,	3 UTM in meters)		(In feet)	I
	POD Sub-		Q	Q	Q						Depth	Depth	Water
POD Number	Code basin C		64					•	X	Y	Well	Water	Column
<u>C 02108</u>		ED		1	3	08	24S	30E	602702	3566487* 😽	200	186	14
<u>C 02109</u>		ED	1	2	4	19	24S	30E	602130	3563412 🍣	130	150	-20
C 02110		ED		4	3	23	24S	30E	608036	3562950* 😽	600	400	200
<u>C 02780</u>		ED	2	3	2	23	24S	30E	608535	3563857* 😽	505		
<u>C 02781</u>		ED	4	3	2	23	24S	30E	608535	3563657* 🐳	624		
<u>C 02782</u>		ED	4	3	2	23	24S	30E	608535	3563657* 🌍	808		
C 03558 POD1	С	ED	1	2	2	25	24S	30E	610412	3562651 🥪	20	0	20
C 03558 POD2	С	ED	1	2	2	25	24S	30E	610412	3562651 🗳	20	0	20
C 03558 POD3	С	ED	1	2	2	25	24S	30E	610412	3562651 🦨	25	0	25
C 03558 POD4	С	ED	1	2	2	25	24S	30E	610412	3562651 😽	25	0	25
C 03558 POD5	С	ED	1	2	2	25	24S	30E	610412	3562651 😽	30	0	30
										Average Depth to	Water:	92 fe	eet
										Minimum	n Depth:	0 fe	et

Maximum Depth: 400 feet

Record Count: 11

Basin/County Search:

Basin: Carlsbad

County: Eddy

PLSS Search:

Township: 24S Range: 30E

*UTM location was derived from PLSS - see Help



Sorted by: File Number

New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

			(R=POD has been replaced and no longer serves this file	(ouarters are 1=N	N 2=NE 3=SW	1=SE)			
	(acre ft per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in meters)					
	Sub			999					
WR File Nbr	basin Use Diversion Owner	County POD Number	Code Grant	Source 6416 4 S	ec Tws Rng	x	Y		
C 02108	STK 3 A PARTNERSHIP M&M CATTLE CO	ED <u>C 02108</u>		13 (08 24S 30E	602702	3566487 😚		
Record Count	<u>:</u> 1								
POD Sea	rch:								
POD N	umber: C 02108								
PLSS Sea	arch:								
Towns	hip: 24S Range: 30E								

*UTM location was derived from PLSS - see Help

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10/16/13 10:33 AM



(with Ownership Information)

	(acre ft	per annum)		(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)							
WR File Nbr	Sub basin Use Dive	ersion Owner	County POD Number	Code Grant	q q q Source 6416 4	÷ .	Y	v			
<u>C 02110</u>	STK	3 CLARENCE W. MCDONALD	ED <u>C 02110</u>	oode orani		23 24S 30E	608036	3562950			
Record Count:	1										

POD Search:

POD Number: C 02110

PLSS Search:

Township: 24S Range: 30E

Sorted by: File Number

*UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replace O=orphaned, C=the file is closed)	(qua					V 4=SE)) (NAD8	3 UTM in meters)		(In feet)	
	POD										
POD Number	Sub-	Count	Q Q 64.46			Baa	x	Y		Depth \ Water C	
C 02405	Code basin C	ED	-		ec 1ws 2 24S	-	A 617690	3568631* 🐳	275	160	115
C 02440	С	ED	2	31	0 24S	31E	616103	3566599* 🌍	350		
C 02460	С	ED		3 0	2 24S	31E	617496	3568022* 🐳	320		
C 02460 POD2	С	ED		30	2 245	31E	617496	3568022* 🍣	320		
C 02464	С	ED	34	1 0	2 245	31E	617589	3568530* 🍣	320	205	115
C 02661		ED	33	1 0	4 245	31E	613969	3568485* 🌍	708		
C 02783	CUB	ED	33	1 0	4 24S	31E	613911	3568461 🌍	708		
C 02783 POD2	С	ED	33	1 0	4 245	31E	613911	3568461 🌍	672		
C_02784	С	ED	42	4 0	4 245	31E	613911	3568461 嶺	584		
C 02785		ED	33	1 0	4 24S	31E	613969	3568485* 😽	692		
								Average Depth to	o Water:	182 fee	ət
								Minimun	n Depth:	160 fee	ət
								Maximum	Depth:	205 fee	et

Record Count: 10

Basin/County Search: Basin: Carlsbad

County: Eddy

PLSS Search:

Township: 24S Range: 31E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

		•	(quarters are 1=NW 2=NE 3=SW 4=SE)							
	•	ft per annum)	C=the file is closed) (quarters are smallest to largest) (NAD83 UT						1 in meters)	
	Sub					999				
WR File Nbr	basin Use D	version Owner	County POD Number	Code Grant	Source	6416 4	Sec	Tws Rng	x	Y
<u>C 00225 A</u>	IRR	8.4 GREGORY ROCKHOUSE RANCH	ED <u>C 02405</u>		Shallow	41	02	24S 31E	617690	3568631* 🕁
<u>C 01246 AO</u>	IRR	47.82 CATHLEEN MC INTIRE	ED <u>C 02405</u>		Shallow	41	02	24S 31E	617690	3568631' 🎸
<u>C 02405</u>	C PRO	0 TEXACO EXPLORATION & PROD. IN	D ED <u>C 02405</u>		Shallow	41	02	24\$ 31E	617690	3568631* 🎸
<u>C 02452</u>	C PRO	0 TEXACO EXPLORATION & PROD IN(C. ED <u>C 02405</u>		Shallow	41	02	24S 31E	617690	3568631* 🎸
<u>C 02576</u>	C PRO	0 SONAT EXPLORATION COMPANY	ED <u>C 02405</u>		Shallow	41	02	24S 31E	617690	3568631 🦛

Record Count: 5

POD Search:

POD Number: C 02405

Sorted by: File Number

*UTM location was derived from PLSS - see Help



(with Ownership Information)

				(R=POD has been replaced		
				and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4	=SE)
	(acre ft	per annum)		C=the file is closed)	(quarters are smallest to largest) (i	NAD83 UTM in meters)
	Sub				999	
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y
<u>C 02464</u>	C PRO	0 COMMISSIONER OF PUBLIC LANDS	ED <u>C 02464</u>		Shallow 3 4 1 02 24S 31E	617589 3568530 🕁

Record Count: 1

POD Search:

POD Number: C 02464

Sorted by: File Number

*UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)							E 3=SW largest)	'	3 UTM in meters)		(In feet	;)
	POD Sub-		Q	~	~						Devit	Dent	10 (-1
POD Number	Code basin Co	ounty	_	_	_	Sec	Tws	Rng	x	Y	•		Water Column
<u>C 01337</u>	CE	ED		2	1	30	25S	29E	591926	3552642* 般	180	30	150
<u>C_01880</u>	C	ED	3	3	2	06	25S	29E	592161	3558605* 🌍	85	40	45
<u>C 02371</u>	CE	ED		2	3	15	25S	29E	596741	3555106* 😽	200	60	140
<u>C 02459</u>	CE	ED	4	4	1	02	25S	29E	598422	3558663* 🚱	150		
<u>C 02518</u>	CE	ED		3	4	08	25S	29E	593895	3556300* 🍪	462		
<u>C 02680</u>	CE	ED		2	3	15	25S	29E	596741	3555106* 🚱	200		
<u>RA 07162 EXP2</u>	E	ED	1	3	1	10	25S	29E	596214	3557222* 🌍	55	40	15
										Average Depth to	o Water:	42 f	eet
										Minimun	n Depth:	30 f	eet
										Maximun	n Depth:	60 f	eet

Record Count: 7

PLSS Search:

Township: 25S

Range: 29E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

				(R=POD has been replaced		
				and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW	(4=SE)
	(acre ft	per annum)		C=the file is closed)	(quarters are smallest to largest)	(NAD83 UTM in meters)
	Sub				999	
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	ХҮ
<u>C 01337</u>	C STK	3 JAMES NYMEYER	ED <u>C 01337</u>		Shallow 2 1 30 25S 29E	591926 3552642 🤣

Record Count: 1

POD Search:

POD Number: C 01337

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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11/12/13 11:08 AM



(with Ownership Information)

				(R=POD has been replaced			
				and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)			
	(acre ft per	annum)		C=the file is closed)	(quarters are smallest to largest) (I	NAD83 UTM in meters)	
	Sub				999		
WR File Nbr	basin Use Diversi	on Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y	
<u>C 01880</u>	C PRO	0 GULF OIL CORPORATION	ED <u>C 01880</u>		Shallow 3 3 2 06 25S 29E	592161 3558605* 🐠	

Record Count: 1

POD Search:

POD Number: C 01880

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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11/12/13 11:09 AM



(with Ownership Information)

			(R=POD has been replaced		
			and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4=SE)	
	(acre ft per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in meters)	
	Sub			999	
WR File Nbr	basin Use Diversion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng X Y	
<u>C 02371</u>	C STK 3 TRAN KING & WESTERN COMM. BAN	K ED <u>C 02371</u>		Shallow 2 3 15 25S 29E 596741 3555106 👸	>

Record Count: 1

POD Search:

POD Number: C 02371

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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11/12/13 11:12 AM



(with Ownership Information)

			(R=POD has been replaced				
			and no longer serves this file,	file, (quarters are 1=NW 2=NE 3=SW 4=SE)			
	(acre ft per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in meters)		
	Sub			q q q			
WR File Nbr	basin Use Diversion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y		
RA 07162	DOM 0 AMARICAN GROUNDWATER CONSULT.	ED <u>RA 07162 EXP2</u>		Shallow 1 3 1 10 25S 29E	596214 3557222 🎲		

Record Count: 1

POD Search:

POD Number: RA 07162 EXP2

Sorted by: File Number

*UTM location was derived from PLSS - see Help

2000 Wa	New Mexico Office of the State Engineer ater Column/Average Depth to Water
(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE) closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)
POD Number <u>C 01379</u>	POD Depth Depth Depth Water Sub- Q Q Depth Depth Water Code basin County 64 16 4 Sec Tws Rng X Y Well Water Column C ED 4 4 3 10 25S 30E 606571 35563355* 400
	Average Depth to Water: Minimum Depth: Maximum Depth:
Record Count: 1 Basin/County Search Basin: Carlsbad	n: County: Eddy
PLSS Search:	eouny. Looy

Township: 25S Range: 30E

*UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)		•					IE 3=SW largest)	,	3 UTM in meters)		(In feet)		
	POD		~ ~	~									
POD Number	Sub- Code basin Cou		QQ 64 16		Sec	Tws	Rng	x	Y	•	Depth Water (
C 02250	E	-				25S	-	614912	3553620* 🈽	400	390	10	
C 02568	E	⊃ ∠	43	1	01	25S	31E	619103	3558892* 😽	1025			
C 02569	E	⊃ 4	14	2	02	25S	31E	618699	3558891* 🏠	1016			
C 02570	E	⊃ 4	\$ 2	4	02	25S	31E	618704	3558489* 😽	895			
<u>C 02571</u>	E	⊃ 4	4 1	2	02	25S	31E	618292	3559294* 🧳	860			
<u>C 02572</u>	E	⊃ 4	\$ 2	2	02	25S	31E	618695	3559294* 🦣	852			
<u>C 02573</u>	E	D 1	14	2	02	25S	31E	618499	3559091* 😽				
<u>C 02574</u>	E	D 1	11	2	02	25S	31E	618092	3559494* 🧳				
									Average Depth to	Water:	390 fe	et	
									Minimum	Depth:	390 fe	et	
									Maximum	Depth:	390 fe	et	
Record Count: 8													
Basin/County Spare	h.												

 Basin/County Search:

 Basin: Carlsbad
 County: Eddy

PLSS Search:

Township: 25S Range: 31E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

				(R=POD has been replaced				
				and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)				
	(acre fi	per annum)		C=the file is closed)	(quarters are smallest to largest) (I	NAD83 UTM in meters)		
	Sub				999			
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X Y		
<u>C 02250</u>	STK	3 BUCK JACKSON TRUST	ED <u>C 02250</u>		3 1 4 21 25S 31E	614912 3553620* 🏠		

Record Count: 1

POD Search:

POD Number: C 02250

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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10/16/13 2:47 PM

Appendix IV

LABORATORY ANALYSES

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394



October 29, 2013

AMY RUTH

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: PLU #114

Enclosed are the results of analyses for samples received by the laboratory on 10/23/13 16:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



DIVERSIFIED FIELD SERVICES, INC. AMY RUTH P. O. BOX 5966 HOBBS NM, 88241 Fax To: (575) 393-2981

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H302576-01)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 103 % 89.4-126

Chloride, SM4500CI-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/24/2013	ND	432	108	400	3.77	
TPH 8015M mg/kg		/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/27/2013	ND	192	96.0	200	5.98	
DRO >C10-C28	<10.0	10.0	10/27/2013	ND	182	91.0	200	8.63	
EXT DRO >C28-C35	<10.0	10.0	10/27/2013	ND					
Surrogate: 1-Chlorooctane	84.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.4	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



DIVERSIFIED FIELD SERVICES, INC. AMY RUTH P. O. BOX 5966 HOBBS NM, 88241 Fax To: (575) 393-2981

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H302576-02)

Chloride, SM4500CI-B mg/kg		Analyze	Analyzed By: AP					<u>. </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	10/24/2013	ND	432	108	400	3.77	

Sample ID: SP 2 @ 1' (H302576-03)

Chloride, SM4500CI-B	mg/	kg Analyzed By: AP		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	10/24/2013	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 5' (H302576-04)

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2,21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 104 % 89.4-126

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	10/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/27/2013	ND	192	96.0	200	5.98	
DRO >C10-C28	<10.0	10.0	10/27/2013	ND	182	91.0	200	8.63	
EXT DRO >C28-C35	<10.0	10.0	10/27/2013	ND					
Surrogate: 1-Chlorooctane	90.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.1	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H302576-05)

Chloride, SM4500Cl-B	e, SM4500CI-B mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	10/24/2013	ND	432	108	400	3.77	

Sample ID: SP 3 @ 1' (H302576-06)

Chloride, SM4500CI-B	3 mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	10/24/2013	ND	432	108	400	3.77	

Sample ID: SP 3 @ 3' (H302576-07)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	10/24/2013	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 5' (H302576-08)

BTEX 8021B	mg.	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 103 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	10/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/27/2013	ND	192	96.0	200	5.98	
DRO >C10-C28	<10.0	10.0	10/27/2013	ND	182	91.0	200	8.63	
EXT DRO >C28-C35	<10.0	10.0	10/27/2013	ND					
Surrogate: 1-Chlorooctane	89.4	% 65.2-14	0	······································					
Surrogate: 1-Chlorooctadecane	91.2	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H302576-09)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9860	16.0	10/24/2013	ND	432	108	400	3.77	

Sample ID: SP 4 @ 1' (H302576-10)

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	10/24/2013	ND	432	108	400	3.77	

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Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 5' (H302576-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	10/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/27/2013	ND	192	96.0	200	5.98	
DRO >C10-C28	<10.0	10.0	10/27/2013	ND	182	91.0	200	8.63	
EXT DRO >C28-C35	<10.0	10.0	10/27/2013	ND					
Surrogate: 1-Chlorooctane	<i>95.1</i>	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.2	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H302576-12)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	10/24/2013	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 5" (H302576-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	89.4-12	6						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	10/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/27/2013	ND	192	96.0	200	5.98	
DRO >C10-C28	11.9	10.0	10/27/2013	ND	182	91.0	200	8.63	
EXT DRO >C28-C35	<10.0	10.0	10/27/2013	ND					
Surrogate: 1-Chlorooctane	79.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.1	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H302576-14)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	10/24/2013	ND	432	108	400	3.77	

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Notes and Definitions

RPD Relative Percent Difference *** Samples not received at proper temperature of 6°C or below. *** Insufficient time to reach temperature. - Chloride by SM4500CI-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on reported on reported on an as received basis (wet) unless otherwise noted on reported on reported on an as received basis (wet) unless otherwise noted on reported on reported on an as received basis (wet) unless otherwise noted on reported on reported on an as received basis (wet) unless otherwise noted on reported on reported on an as received basis (wet) unless otherwise noted on reported on reported on an as received basis (wet) unless otherwise noted on reported on an as received basis (wet) unless otherwise noted on reported on an as received basis (wet) unless otherwise noted on reported o	ND	Analyte NOT DETECTED at or above the reporting limit
*** Insufficient time to reach temperature. - Chloride by SM4500Cl-B does not require samples be received at or below 6°C	RPD	Relative Percent Difference
- Chloride by SM4500CI-B does not require samples be received at or below 6°C	**	Samples not received at proper temperature of 6°C or below.
	***	Insufficient time to reach temperature.
Samples reported on an as received basis (wet) unless otherwise noted on repor	-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
		Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 13 of

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 14 of 14

1

101 East Marland, Hobbs, NM 88240	
(575) 393-2326 FAX (575) 393-2476	
company Name: Diversified Field Services, Inc. BILL TO	ANALYSIS REQUEST
Project Manager: Amy, Kuth	
Address: 3412 N. Dal Paso company: BDPCO	
city: Hobbs state: NM ZIP: 882 Attn: TONY	
Phone #: 575-964-8394 Fax #: 575-964-8396 Address:	
Project #: Project Owner: BD.PCD City:	
Project Name: Zip:	
Project Location: P. LIV#114 Phone #:	
Sampler Name: M and Gomez Fax #:	
FOR LAB USE ONLY MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D. Brite A State S	
Tap I.D. Sample I.D. (G)RAB OR (C)ON RECONTAINERS SOIL OIL SSOIL OTHER ACID/BASE ACID/BASE ACID/BASE ACID/BASE COOL OTHER SSOIL OTHER SSOIL OTHER SSOIL	
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PLEASE NOTE: Liability and Damages. Certrinal's flability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for	
analyses. All claims including those for negligence and any other cause whatsoever shall be deamed waived unless made in writing and received by Cardinal writin 30 days efter completion of it service. In no event shall cardinal be table for incidential or consequental damages, including writing time to the table in the table of loss of profile incurred by cardinal writing and received by Cardinal writing and received by Cardinal writing 30 days efter completion of it	he applicable
affiliates or successors anang 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 Relinguished By:	Se
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Sampler - UPS - Bus - Other: 3,64 Pres Res CTU	th@diversitiedtsi.dom



November 08, 2013

AMY RUTH

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: PLU #114

Enclosed are the results of analyses for samples received by the laboratory on 11/01/13 17:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



DIVERSIFIED FIELD SERVICES, INC. AMY RUTH P. O. BOX 5966 HOBBS NM, 88241 Fax To: (575) 393-2981

Received:	11/01/2013	Sampling Date:	10/31/2013
Reported:	11/08/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 8' (H302681-01)

Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: AP					
Analyte	Result	Result Reporting Limit		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	11/06/2013	ND	400	100	400	3.92	

Sample ID: SP 3 @ 10' (H302681-02)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Result Reporting Limit Analyzed		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	11/06/2013	ND	400	100	400	3.92	

Sample ID: SP 3 @ 12' (H302681-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2013	ND	2.20	110	2.00	6.58	
Toluene*	<0.050	0.050	11/07/2013	ND	2.24	112	2.00	7.60	
Ethylbenzene*	<0.050	0.050	11/07/2013	ND	2.28	114	2.00	7.83	
Total Xylenes*	<0.150	0.150	11/07/2013	ND	6.83	114	6.00	8.29	
Total BTEX	<0.300	0.300	11/07/2013	ND					

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 256 16.0 11/06/2013 ND 400 100 400 3.92 **TPH 8015M** Analyzed By: MS mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Cardinal Laboratories

*=Accredited Analyte

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 whitsbeever shall be deemed waved 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 profits incidental or consequential, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced except in full with writen approval of Cardinal Laboratories.

Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



DIVERSIFIED FIELD SERVICES, INC. AMY RUTH P. O. BOX 5966 HOBBS NM, 88241 Fax To: (575) 393-2981

Received:	11/01/2013	Sampling Date:	10/31/2013
Reported:	11/08/2013	Sampling Type:	Soil
Project Name:	PLU #114	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 12' (H302681-03)

TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2013	ND	200	100	200	0.0305	
DRO >C10-C28	<10.0	10.0	11/05/2013	ND	205	102	200	0.511	
EXT DRO >C28-C35	<10.0	10.0	11/05/2013	ND					
Surrogate: 1-Chlorooctane	96.6%	65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celing & Keine

Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below $6^{\circ}C$
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-							*													
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Appendix V

FINAL FORM C-141

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Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394 State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. NMOCD ARTESIA

Form C-141 Revised August 8, 2011

RECEIVED

Santa Fe, NM 87505

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company BOPCO, L.P.	Contact: Tony Savoie		
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 432-556-8730		
Facility Name Poker Lake Unit #114	Facility Type		

Surface Owner State of New Mexico Mineral Owner State of New Mexico API No. 30-015-28102

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
F	36	24S	30E	North	1982	West	2019	

Latitude 32.86647 Longitude 103.8571

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release 10 bbls	Volume Recovered 0					
Source of Release Well Head	Date and Hour of Occurrence	Date and Hour of Discovery 3/27/12					
	3/27/12 Time unknown	2:00 PM					
Was Immediate Notice Given?	If YES, To Whom?						
🗌 Yes 🔲 No 🖾 Not Required							
By Whom?	Date and Hour						
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.						
🗌 Yes 🖾 No	······································						
If a Watercourse was Impacted, Describe Fully.*							
NA							
NA .							
Describe Cause of Problem and Remedial Action Taken.*							
A 1/2" valve on the wellhead was accidentally opened, the valve handle w	vas removed and the valve was plugg	ed.					
Describe Area Affected and Cleanup Action Taken.*	····· · · · · · · · · · · · · · · · ·	should be site. The sufflexes deliverated has					
Spill affected area approximately 4800 sq. ft. on the caliche well pad. The Diversified Field Services, Inc. Samples were submitted to a commercial l							
facility. Confirmation samples were submitted to a commercial lab for analyses. A liner was installed. The excavation was backfilled and the site was contoured to the surrounding landscape.							
contoured to the surrounding hindscupe.							
I hereby certify that the information given above is true and complete to the							
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 failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health							
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
receral, state, or local laws and/or regulations.	OU CONSERV						
	<u>UIL CUNSER</u>	VATION DIVISION					
Signature:							
V	Approved by Environmental Speciali						
Printed Name: Tony Savoie	Approved by Environmental Specialist:						
Title: Waste Mgmt. and Remediation Specialist	Approval Date: Expiration Date:						
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:	Attached					
Date: 12/12/13 Phone:432-556-8730							

* Attach Additional Sheets If Necessary