

# BOPCO

## Poker Lake Unit Pierce Canyon 5 State No. 1

### CLOSURE REPORT

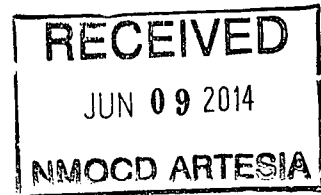
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2RP-1197

API No. 30-015-36998

Release Date: 5/25/2012

Unit Letter P, Section 5, Township 25 South, Range 30 East



**May 23, 2014**

**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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- 1 Introduction
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Figure – Site Diagram with Sample Data

## APPENDICES

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Appendix V – Correspondence

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# PLU #Pierce Canyon 5 State No. 1H

## 1 BACKGROUND

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BOPCO has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located east of Malaga NM, in unit letter 'P' sec. 5, T25S R30E in Eddy County. A flow line developed a leak due to corrosion. A temporary repair clamp was placed on the pipe allowing the replacement of a single joint of pipe on May 30, 2012. The leak released produced water and crude oil onto approximately 675 sq. ft. of the lease road, and into approximately 480 sq. feet of pasture (Figure). All fluids were absorbed by the grounds, henceforth none were recoverable. A form C-141 was submitted to the NMOCD on June 26, 2012 (Appendix I).

DFSI conducted a groundwater study of the area. According to the U.S. Geological Survey and the NM Office of the State Engineer, there are no records of groundwater in the immediate vicinity of this site (Appendix III). However, average depth to groundwater for this Township and Range is ~325 ft. bgs. Therefore there is no perceived immediate threat of impact to groundwater. It is the intent of BOPCO, L.P. to restore the area to its natural and pre-incident state.

## 2 SITE ACTIVITIES

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On February 28, 2014 DFSI submitted application for Right of Entry to State of New Mexico Land Office Oil and Gas Minerals Division. One, Pete Martinez met with the Right Of Way Division regarding remediation of this site and permission was granted to proceed since it was determined that this site was located on BOPCO's Poker Lake Unit State Oil and gas lease No, B-1678-1, and is committed to the Unit, a Right of Entry to remediate this land is not required (Appendix V).

On February 27, 2014 DFSI personnel were on site to assess the impacted area. Soil samples were taken from nine points and field tested for chloride and hydrocarbons (Figure). Samples were field tested every 1ft. until acceptable levels could be obtained. Representative samples were submitted to a commercial laboratory for chloride, TPH, and BTEX analyses (Appendix IV).

Visually impacted soils were excavated throughout the entire leak area and removed to a NMOCD approved disposal facility, thereby preventing further impact. Simultaneous soil field testing revealed low chloride and hydrocarbon levels at 1 to 3 ft. below ground surface for SP2 thru SP7 (bgs), which were located in the lease road, however SP1 was located at source of Diversified Field Service, Inc.

leak and sampled to a depth of 11ft bgs., whereby lab analysis returned an acceptable level of chloride at 480 mg/kg. SP8 and SP9 were located in the pasture area. These sample points were tested to a depth of 3ft and 4ft bgs., respectively. (Appendix IV). Chloride analyses returned at 208 mg/kg and 336 mg/kg respectively. TPH totaled less than 10.0 mg/kg GRO and less than 86.8 mg/kg DRO, and BTEX totaled less than 0.300 mg/kg in all samples. Photographs of site activities can be viewed in Appendix II.

### **3 Conclusion**

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The most significant area of impact was in the lease road at SP1. This was the noted point of release, which lies between two water lines at the east edge of the road. Therefore was excavated to 3ft. bgs and lined with a 20 mil. liner. There was a cumulative total of 36 tons excavated from this area, likewise with the fresh caliche restoring the impacted area. This was backfilled with imported caliche, misted and packed.

The highest level of impact in the pasture area was SP8. Utilizing a Hydro-vac for SP7 and SP8; DFSI attempted to excavate to 1ft. bgs., however due to the number of high pressure lines and soil issues this area had to be hand-excavated. 1 ton of impacted top soil was removed and replaced with 1 ton of fresh topsoil from an NMOCD approved facility. The remainder of impacted pasture area was scraped, blended and contoured to the surrounding terrain.

Based on the removal of soils containing elevated chloride and visual staining at the site, BOPCO, L.P. respectfully requests the closure of the regulatory file for the site.





# Site Diagram

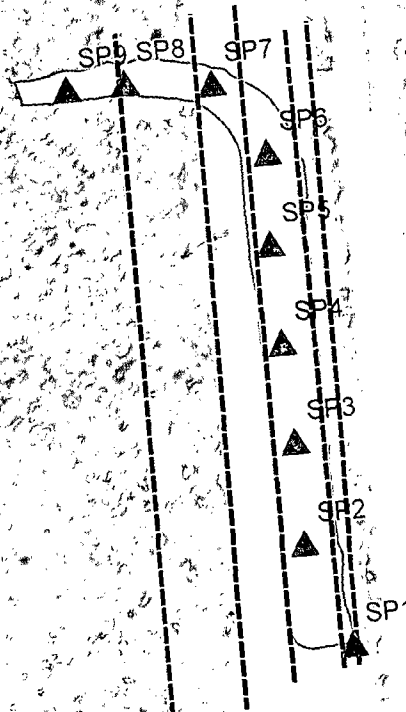
Bopco  
UL

Drafted By:



## Legend

-  Sample Points
-  Above Ground Line
-  Buried Line
-  Spill



Lance Crenshaw  
GIS Technician

Soil Remediation and Ground Water Remediation  
Environmental Assessments  
Regulatory Compliance



Environmental

**DFSI**

Services

Office: 575-964-8394  
Fax: 575-964-8396

Cell: 575-441-2359  
Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, I-cubed, USDA, USGS, swisstopo, and the GIS User Community

**PLU PIERCE CANYON 5 STATE #1  
FIELD ANALYSIS**

FIELD ANALYSIS				Sample Depth								
Date Collected	Sample ID	Location		Surface	1 ft.	2 ft.	3 ft.	4 ft.	5 ft.	7 ft.	9 ft.	11 ft.
2/27/2014	SP 1	Release point	Chl mg/kg	749	2224	4748	5448		4198	3623	3498	474
			Status	Excavated	Excavated	Excavated	Excavated		In-situ	In-situ	In-situ	In-situ
2/27/2014	SP 2	Lease Road	Chl mg/kg	374	324							
			Status	In-situ	In-situ							
2/27/2014	SP 3	Lease Road	Chl mg/kg	474	324							
			Status	In-situ	In-situ							
2/27/2014	SP 4	Lease Road	Chl mg/kg	424	1249	474						
			Status	In-situ	In-situ	In-situ						
2/27/2014	SP 5	Lease Road	Chl mg/kg	424	499							
			Status	In-situ	In-situ							
2/27/2014	Sp 6	Lease Road	Chl mg/kg	324	324							
			Status	In-situ	In-situ							
2/27/2014	SP 7	Right of way	Chl mg/kg		1999	499						
			Status		Excavated	In-situ						
2/27/2014	SP 8	Right of way	Chl mg/kg		1274	1499	974	324				
			Status		Excavated	Excavated	In-situ	In-situ				
2/27/2014	SP 9	Pastuure	Chl mg/kg		1274	1874	324					
			Status		Excavated	Excavated	In-situ					

**PLU Pierce Canyon 5 State #1  
Soil Chemistry Table**

Date	Lab ID	Sample ID	Sample	Status	TPH GRO	TPH DRO	TPH EXT.DR0	TPH TOTAL	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Chloride
Collected			Location		C6-C10	C10- C28	C28-C35	C6-C-35					TOTAL	
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
2/28/2014	H400620	SP 1 at 11'	Release point	In-situ	<10	<10	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300	480
2/28/2014	H400620	SP 2 at 1'	Lease road	In-situ	<10	<10	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300	320
2/28/2014	H400620	SP 3 at 1'	Lease road	In-situ	<10	<10	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300	208
2/28/2014	H400620	SP 4 at 2'	Lease road	In-situ	<10	<10	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300	512
2/28/2014	H400620	SP 5 at 1'	Lease road	In-situ	<10	<10	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300	368
2/28/2014	H400620	SP 6 at 1'	Lease road	In-situ	<10	<10	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300	80
2/28/2014	H400620	SP 7 at 2'	Right of way	In-situ	<10	<10	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300	656
2/28/2014	H400620	SP 8 at 4'	Right of way	In-situ	<10	<10	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300	208
2/28/2014	H400620	SP 9 at 3'	Pasture	In-situ	<10	<10	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300	336
3/20/2014	H400856	N. Wall	Release point at 3'	In-situ	<10	20.7	<10	20.7						1120
3/20/2014	H400856	Bottom 3'	Release point at 3'	In-situ	<10	86.8	22.4	109.2	<0.050	<0.050	<0.050	<0.150	<0.300	4280
3/20/2014	H400856	E Wall	Release point at 3'	In-situ	<10	<10	<10	<10						880
3/20/2014	H400856	S Wall #2	Release point at 3'	In-situ	<10	44.9	<10	44.9						2280
3/20/2014	H400856	W Wall #4	Release point at 3'	In-situ	<10	<10	<10	<10						576

# Appendix I

INITIAL FORM C-141

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



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

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

Release Notification and Corrective Action

nJMW 12180 48947

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company BOPCO, L.P.	260737	Contact Tony Savoie
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Telephone No. 432-556-8730
Facility Name: Poker Lake Unit Pierce Canyon 5 State No. 1H		Facility Type E&P

Surface Owner State of NM	Mineral Owner State of NM	Lease No. API 30-016-36998
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LOCATION OF RELEASE

Unit Letter P	Section 5	Township 25S	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
------------------	--------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude N 32.215518 Longitude W 103.894893 ← POR

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 10 Bbls of Produced water and 15 Bbls crude oil	Volume Recovered: None
Source of Release: 2 7/8" flow line	Date and Hour of Occurrence 5/25/12 Time approximately 10:00 a.m.	Date and Hour of Discovery 5/25/12 11:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD Emergency #104 and State Land Office Andrew Kramer	
By Whom? Tony Savoie	Date and Hour 5/25/12 NMOCD at 11:40 a.m. SLO at 11:52 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* The flow line developed a leak due to internal corrosion. A temporary repair clamp was placed on the pipe. One joint of pipe was replaced on 5/30/12.

Describe Area Affected and Cleanup Action Taken.\* Approximately 675 sq. ft. of caliche road and approximately 480 sq. ft. of pasture land. All of the released fluid soaked into the ground. The remediation will comply with the NMOCD and BLM requirements for spills.

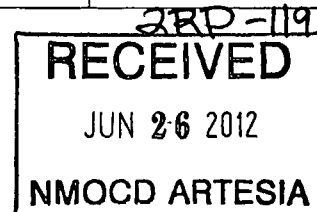
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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 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.

Signature: Tony Savoie	OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie	Approved by District Supervisor: Signed By Mike Benavides	
Title: Waste Mgmt. & Remediation Specialist	Approval Date: JUN 28 2012	Expiration Date:
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6/22/12	Phone: 432-556-8730	

\* Attach Additional Sheets If Necessary

Remediation per OCD Rules &  
Guidelines. SUBMIT REMEDIATION  
PROPOSAL NOT LATER THAN:

7/28/12



# Appendix II

## SITE PHOTOGRAPHS

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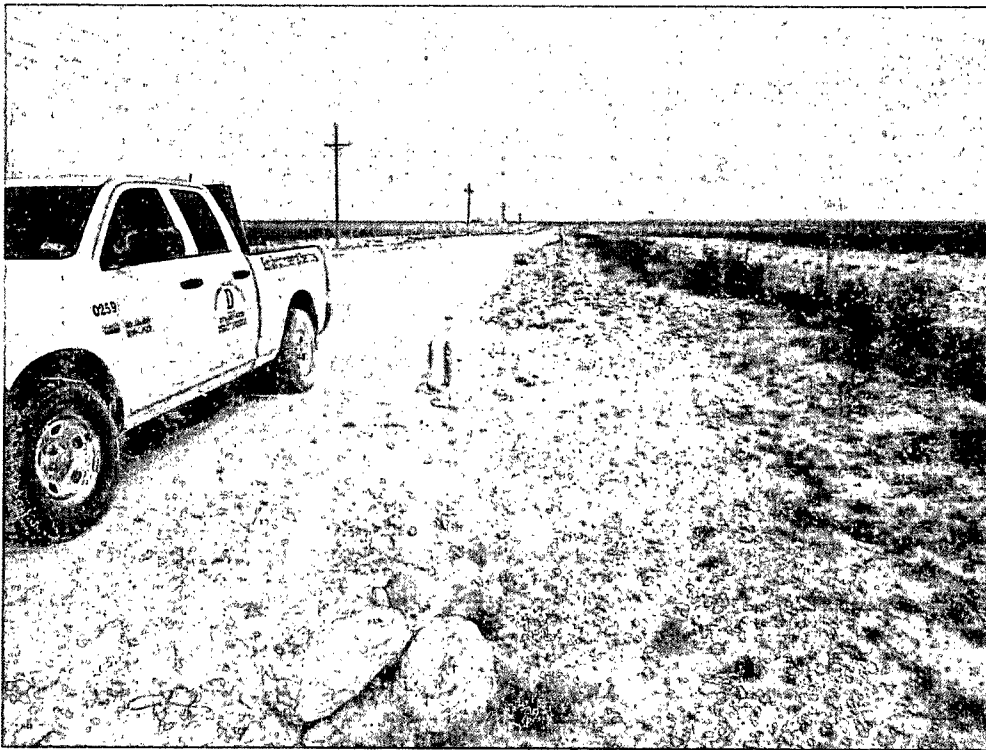
# BOPCO PLU PC 5 State #001H

Unit Letter P, Section 5, T25S R30E



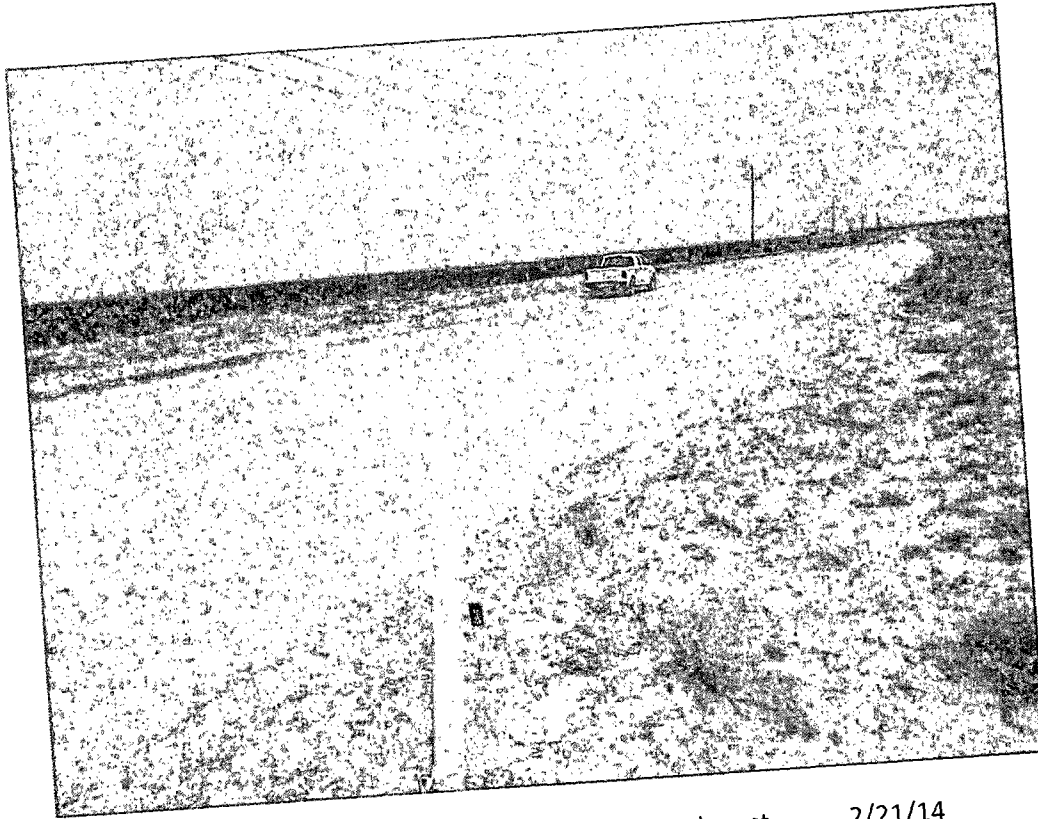
Leak source, facing south

2/21/14



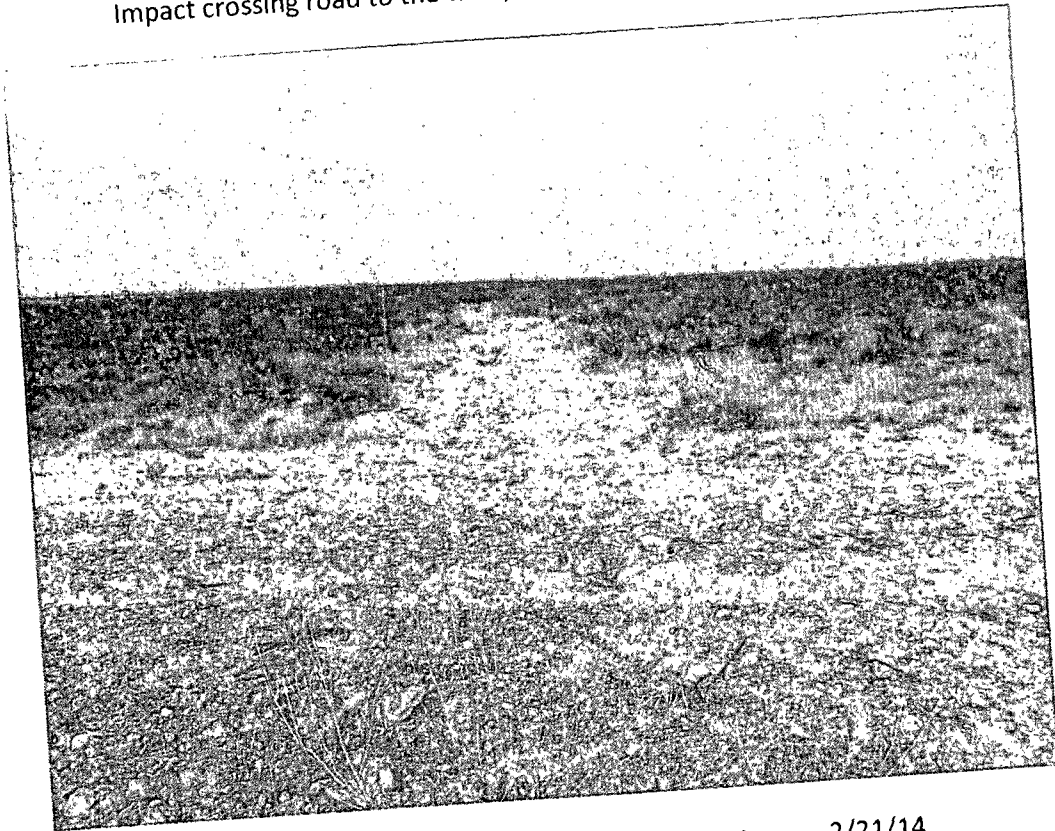
Leak source and impacted road, facing north

2/21/14



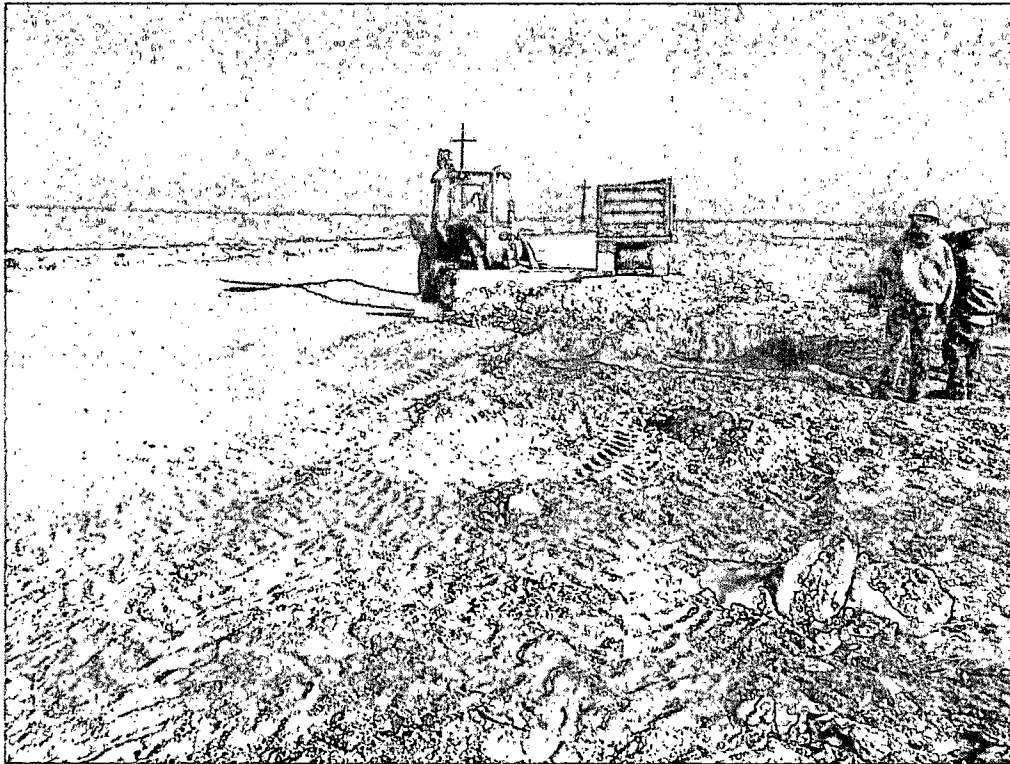
Impact crossing road to the west, facing northwest

2/21/14

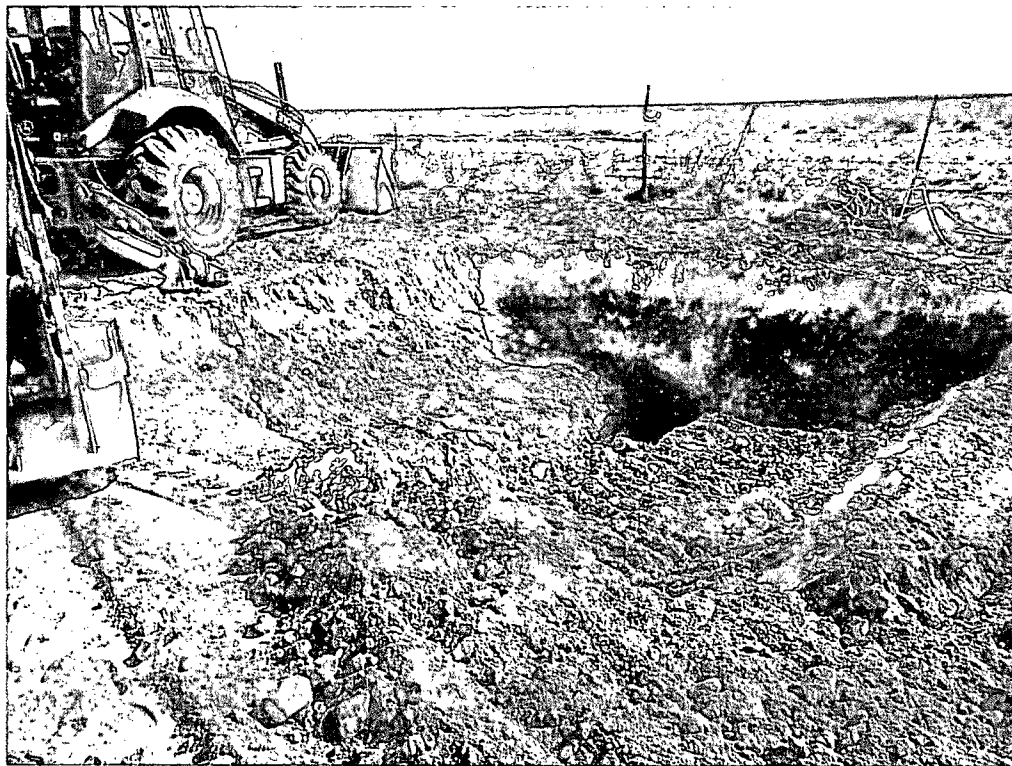


Impact crossing ROW into pasture, facing west

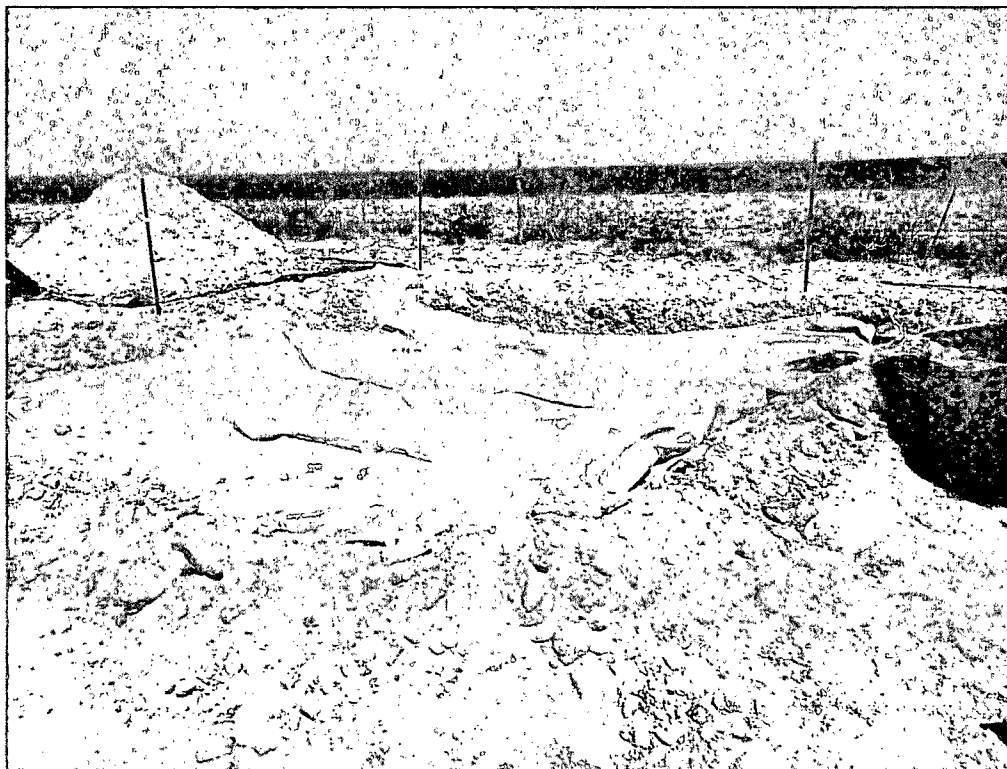
2/21/14



Excavation of impacted area 03/26/14



Excavation of SP1 to 3ft bgs



Lined area 03/26/14



Site at completion misted and compacted 03/26/14



Excavation of impacted pasture area 4/29/14



Pasture area at completion 4/29/14

# Appendix III

## GROUNDWATER DATA

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



# DEPTH TO GROUNDWATER

BOPCO PLU PLU PC 5 State No. 1H

UL:   P        Sec:   5        T:  25S       R:  30E 

Groundwater Depth:                     ~325                     ft.

○ = NM Office of the State Engineer

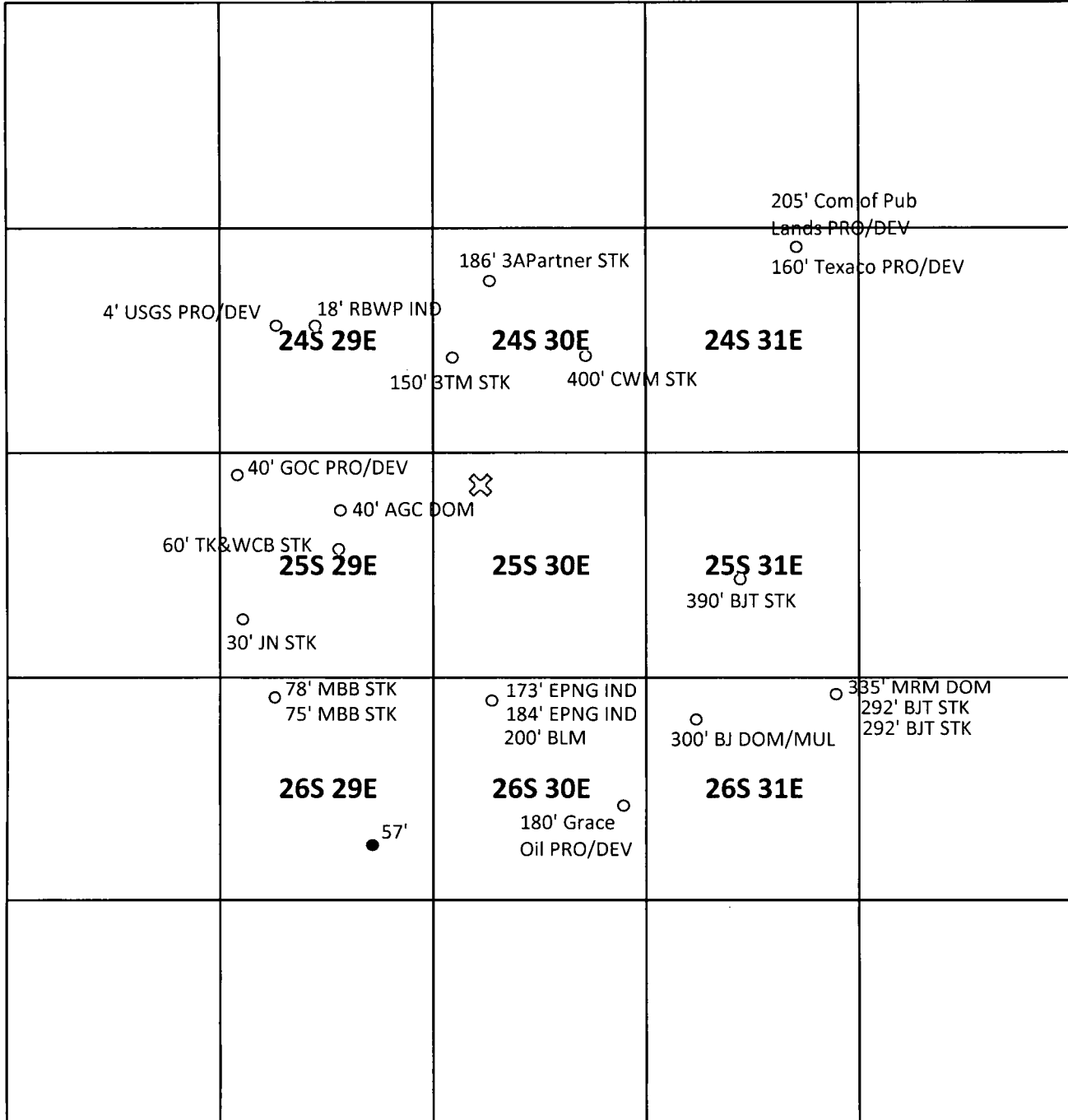
NMOCD GW trend map - 325 to 350 ft bgs

● = U.S. Geological Survey (unknown well)

Date: 05/06/14

✕ = Site Location

By: Rebecca Pons



**USGS 320106103555301 26S.29E.26.13143**

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code --

Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83

Land-surface elevation 2,869.60 feet above NGVD29

The depth of the well is 140 feet below land surface.

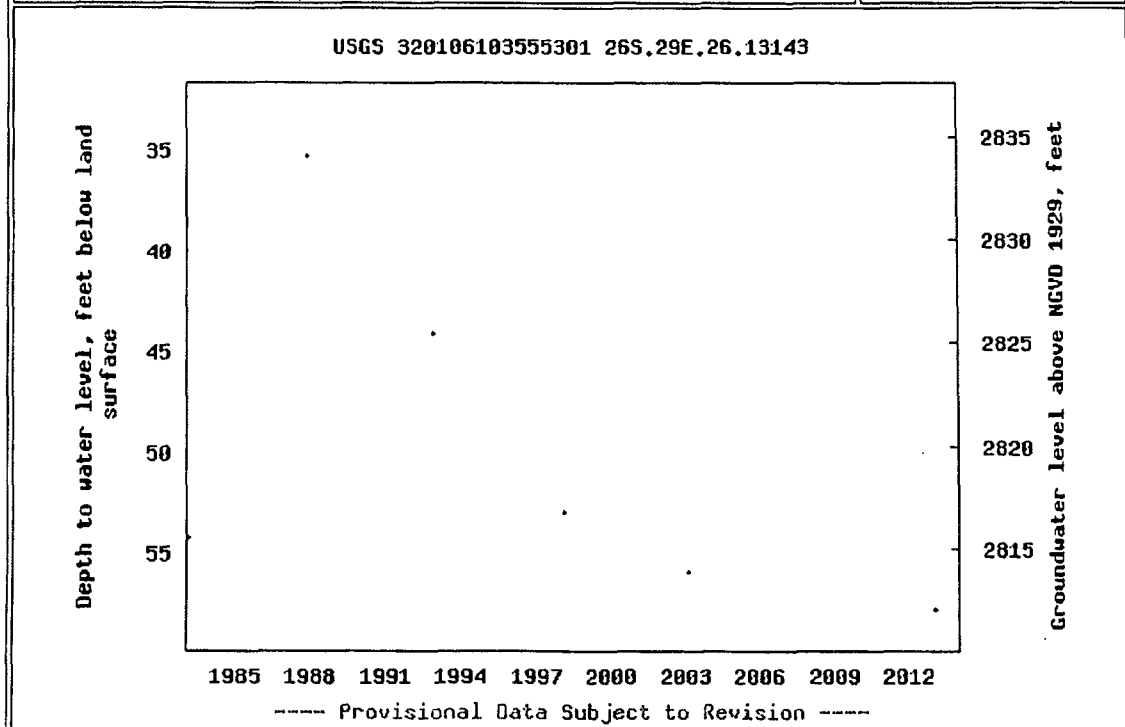
This well is completed in the Rustler Formation  
(312RSLR) local aquifer.**Output formats**

Table of data

Tab-separated data

Graph of data

Reselect period





# 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)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD			Q Q Q					X	Y	Depth Well	Depth Water	Water Column	
	Code	Sub-basin	County	64	16	4	Sec	Tws						Rng
<u>C 00349</u>	C	CUB	ED	1	3	18	24S	29E	591401	3564773*	2734			
<u>C 00391</u>	C	C	ED	3	2	3	07	24S	29E	591682	3566297*	2797		
<u>C 00463</u>		C	ED	4	4	4	17	24S	29E	594332	3564282*	260	4	256
<u>C 00358</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		
<u>C 00863</u>			ED	3	3	1	16	24S	29E	594524	3565091*	220		
<u>C 00863 CLW199508</u>	O		ED	3	3	1	16	24S	29E	594524	3565091*	220		
<u>C 02713</u>		C	ED	4	4	1	16	24S	29E	591633	3565944	230	18	212

Average Depth to Water: 11 feet

Minimum Depth: 4 feet

Maximum Depth: 18 feet

Record Count: 9

PLSS Search:

Township 24S

Range 29E

\*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.



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	Shallow	q	q	q	Sec	Tws	Rng	X	Y
C 00463	C	PRO			0 U.S. GEOLOGICAL SURVEY	ED	C 00463			6416 4	4	4	4	17	24S	29E		594332	3564282'

Record Count: 1

POD Search:

POD NUMBER: C 00463

Sorted by: File Number

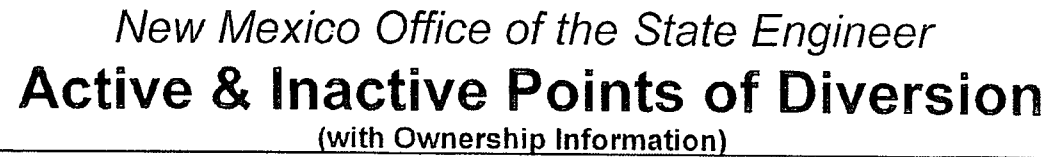
\*UTM location was derived from PLSS - see Help

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.

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ACTIVE & INACTIVE POINTS OF DIVERSION



### ACTIVE & INACTIVE POINTS OF DIVERSION



# 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 (quarters are 1=NW 2=NE 3=SW 4=SE)  
closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02108			ED	1	3	08	24S	30E		602702	3566487*	200	186	14
C 02109			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
C 02780			ED	2	3	2	23	24S	30E	608535	3563857*	505		
C 02781			ED	4	3	2	23	24S	30E	608535	3563657*	624		
C 02782			ED	4	3	2	23	24S	30E	608535	3563657*	808		
C 03558 POD1	C		ED	1	2	2	25	24S	30E	610442	3562615	50		
C 03558 POD2	C		ED	1	2	2	25	24S	30E	610442	3562615	50		
C 03558 POD3	C		ED	1	2	2	25	24S	30E	610442	3562615	50		
C 03558 POD4	C		ED	1	2	2	25	24S	30E	610442	3562615	50		
C 03558 POD5	C		ED	1	2	2	25	24S	30E	610442	3562615	50		

Average Depth to Water: 245 feet

Minimum Depth: 150 feet

Maximum Depth: 400 feet

Record Count: 11

PLSS Search:

ownship. 24S

range 30E

\*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.

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WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q q q	Sec	Tws	Rng	X	Y
C 02108		STK		3	A PARTNERSHIP M&M CATTLE CO	ED	C 02108		6416 4	1 3	08	24S	30E	602702	3566487*

**Record Count:** 1

**POD Search:**

POD Number C 02108

**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.

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ACTIVE & INACTIVE POINTS OF DIVERSION



# 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, C=the file is closed)										(quarters are 1=NW 2=NE 3=SW 4=SE)										(quarters are smallest to largest) (NAD83 UTM in meters)									
(acre ft per annum)																																							
WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416	4	Sec	Tws	Rng	X	Y																						
C 02109			STK		3 TYSON MAHAFFEY	ED	C 02109				1	2	4	19	24S	30E	602130	3563412																					
C 03515	C	PRO		0	CONCHO OIL & GAS	ED	C 02109				1	2	4	19	24S	30E	602130	3563412																					

**Record Count:** 2

**POD Search:**

POD Number: C 02109

**Sorted by:** File Number

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.

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin Use Diversion Owner	County POD Number	Code Grant	Source	6416 4	Sec	Tws	Rng	X	Y
C 02110	STK 3 CLARENCE W. McDONALD	ED C 02110			4	3	23	24S 30E	608036	3562950*

Record Count: 1

POD Search:

POD Number: C 02110

Sorted by: File Number

\*UTM location was derived from PLSS - see Help

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8/4/13 4:55 PM



# 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) (quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02405	C	ED		4	1	02	24S	31E		617690	3568631*	275	160	115
C 02440	C	ED		2	3	10	24S	31E		616103	3566599*	350		
C 02460	C	ED		3	02	24S	31E			617496	3568022*	320		
C 02460 POD2	C	ED		3	02	24S	31E			617496	3568022*	320		
C 02464	C	ED		3	4	1	02	24S	31E	617589	3568530*	320	205	115
C 02661		ED		3	3	1	04	24S	31E	613969	3568485*	708		
C 02763	CUB	ED		3	3	1	04	24S	31E	613911	3568461	708		
C 02763 POD2	C	ED		3	3	1	04	24S	31E	613911	3568461	672		
C 02764	C	ED		4	2	4	04	24S	31E	613911	3568461	584		
C 02765		ED		3	3	1	04	24S	31E	613969	3568485*	692		

Average Depth to Water: 182 feet

Minimum Depth: 160 feet

Maximum Depth: 205 feet

Record Count: 10

PLSS Search:

Township: 24S

Range: 31E

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)						(R=POD has been replaced and no longer serves this file, C=the file is closed)		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)									
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
C 02405 1		IRR	8.4	GREGORY ROCKHOUSE RANCH	ED	C 02405			Shallow	4	1	02	24S	31E		617690	3568631*
C 01246 A0		IRR	47.82	CATHLEEN MC INTIRE	ED	C 02405			Shallow	4	1	02	24S	31E		617690	3568631*
C 02405	C	PRO	0	TEXACO EXPLORATION & PROD. INC	ED	C 02405			Shallow	4	1	02	24S	31E		617690	3568631*
C 02405	C	PRO	0	TEXACO EXPLORATION & PROD INC	ED	C 02405			Shallow	4	1	02	24S	31E		617690	3568631*
C 02576	C	PRO	0	SONAT EXPLORATION COMPANY	ED	C 02405			Shallow	4	1	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

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ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
C 02464	C	PRO	0	COMMISSIONER OF PUBLIC LANDS	ED	C 02464			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

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

(A CLW##### in the  
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& 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	POD		Sub-				Q Q Q			Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
	Code	basin	County	64	16	4	16	4	16								
C 01337	C	ED		2	1	30	25S	29E					591926	3552642*	180	30	150
C 01580	C	ED		3	3	2	06	25S	29E				592161	3558605*	85	40	45
C 02371	C	ED		2	3	15	25S	29E					596741	3555106*	200	60	140
C 02459	C	ED		4	4	1	02	25S	29E				598422	3558663*	150		
C 02518	C	ED		3	4	08	25S	29E					593895	3556300*	462		
C 02680	C	ED		2	3	15	25S	29E					596741	3555106*	200		
RA 07182 EXP2		ED		1	3	1	10	25S	29E				596214	3557222*	55	40	15

Average Depth to Water: 42 feet

Minimum Depth: 30 feet

Maximum Depth: 60 feet

Record Count: 7

PLSS Search:

Township: 25S Range: 29E

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin Use Diversion Owner	County POD Number	Code Grant	Source	q q q	Sec	Tws	Rng	X	Y
C 01337	C STK 3 JAMES NYMEYER	ED C 01337		Shallow	6416 4	2 1	30	25S 29E	591926	3552642*

(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)

**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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8/4/13 5:12 PM



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)		(R=POD has been replaced and no longer serves this file, C=the file is closed)		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)	
WR File Nbr	Sub basin Use Diversion Owner	County POD Number	Code Grant	q q q Source 6416 4 Sec Tws Rng	X Y
C 01880	C PRO 0 GULF OIL CORPORATION	ED C 01880		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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ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

		(acre ft per annum)																
WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Soc	Tws	Rng	X	Y
C 021	C	STK			3 TRAN KING & WESTERN COMM. BANK	ED	C 02371			Shallow	2	3	15	25S	29E		596741	3555106*

(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)

**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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8/4/13 5:15 PM





# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin Use Diversion Owner	County POD Number	Code Grant	Source	Q	Q	Q	Sec	Tws	Rng	X	Y
RA 07162	DOM 0 AMERICAN GROUNDWATER CONSULT	ED RA 07162 EXP2		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

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ACTIVE & INACTIVE POINTS OF DIVERSION



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

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water right file.)

(R=POD has  
been replaced,  
O=orphaned,  
C=the file is

closed) (quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD	Sub-Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water Column
C 01379		C	ED	4	4	3	10	25S	30E	606571	3556355*	400		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

PLSS Search:

Township: 25S Range: 30E

\*UTM location was derived from PLSS - see Help

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8/4/13 5:19 PM

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WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416	4	Sec	Tws	Rng	X	Y	
C 01379	C	STK			3 BUCK JACKSON	ED	C 01379				4	4	3	10	25S	30E	606571	3556355*

Record Count: 1

### POD Search:

POD Number: C 01379

Sorted by: File Number

\*UTM location was derived from PLSS - see Help

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ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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(R=POD has  
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O=orphaned,  
C=the file is  
closed) (quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub- Code basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<u>C 02250</u>	ED		3	1	4	21	25S	31E	614912	3553620*	400	390	10
<u>C 02568</u>	ED		4	3	1	01	25S	31E	619103	3558892*	1025		
<u>C 02569</u>	ED		4	4	2	02	25S	31E	618699	3558891*	1016		
<u>C 02570</u>	ED		4	2	4	02	25S	31E	618704	3558489*	895		
<u>C 02571</u>	ED		4	1	2	02	25S	31E	618292	3559294*	860		
<u>C 02572</u>	ED		4	2	2	02	25S	31E	618695	3559294*	852		
<u>C 02573</u>	ED		1	4	2	02	25S	31E	618499	3559091*			
<u>C 02574</u>	ED		1	1	2	02	25S	31E	618092	3559494*			

Average Depth to Water: **390 feet**

Minimum Depth: **390 feet**

Maximum Depth: **390 feet**

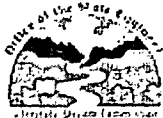
**Record Count: 8**

**PLSS Search:**

Township **25S** Range **31E**

\*UTM location was derived from PLSS - see Help

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# 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) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									
										q q q									
										Source 6416 4 Sec TwS Rng X Y									
										3 1 4 21 25S 31E 614912 3553620									



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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(R=POD has  
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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	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01354 X-3	C	ED		2	1	3	23	26S	29E	598323	3543837	170		
C 02038	C	ED		3	2	4	26	26S	29E	599204	3541992*	200		
C 03507 POD1	C	ED		1	3	3	05	26S	29E	593064	3548313	140	78	62
C 03508 POD1	C	ED		1	3	3	05	26S	29E	593063	3548361	140	75	65

Average Depth to Water: 76 feet

Minimum Depth: 75 feet

Maximum Depth: 78 feet

**Record Count:** 4

**PLSS Search:**

Township: 26S

Range: 29E

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q	Sec	Tws	Rng	X	Y		
C 03507	C	STK		M. BRAD BENNETT	ED	C 03507	POD1		Shallow	1	3	3	05	26S	29E	593063	3548313

Record Count: 1

POD Search:

POD Number: C 03507 POD1

Sorted by: File Number

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8/4/13 5:28 PM



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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water right file.)

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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	POD	Sub-Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01360	C	ED	4	3	3	05	26S	30E			602997	3548152	770	173	597
C 01361		ED	3	4	3	05	26S	30E			603240	3548157	775	184	591
C 02165	C	ED				24	26S	30E			610036	3544121*	440	180	260
C 03483	C	ED	4	4	4	05	26S	30E			604296	3548251	700	200	500

Average Depth to Water: 184 feet

Minimum Depth: 173 feet

Maximum Depth: 200 feet

**Record Count: 4**

**PLSS Search:**

Township: 26S

Range: 30E

\*UTM location was derived from PLSS - see Help

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### ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q	Sec	Tws	Ring	X	Y	
C 01361	IND			0 EL PASO NATURAL GAS	ED	C 01361			Shallow	3	4	3	05	26S	30E	603240 3548157

Record Count: 1

POD Search:

POD Number: C 01361

Sorted by: File Number

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ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
C 02165	C	PRO		0 GRACE OIL	ED	C 02165			Shallow	6416	4		24	26S	30E	610036	3544121*

(R=POD has been replaced  
and no longer serves this file,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Record Count: 1

POD Search:

POD Number C 02165

Sorted by: File Number

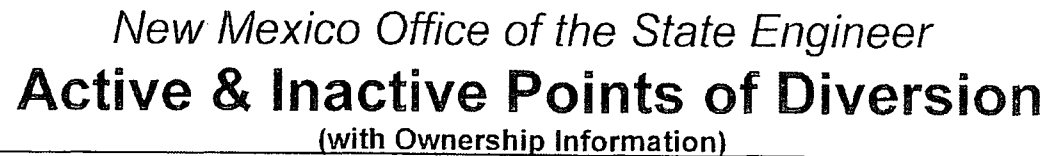
\*UTM location was derived from PLSS - see Help

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ACTIVE & INACTIVE POINTS OF DIVERSION



### ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the  
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water right file.)

(R=POD has  
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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	POD	Sub-	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<u>C 01777</u>	C	ED				08	26S	31E	613245	3547409*	325	300	25
<u>C 02090</u>		ED	4	4	01	26S	31E		620329	3548533*	350	335	15
<u>C 02248</u>		ED	1	2	3	08	26S	31E	612942	3547316*	300	292	8
<u>C 02249</u>		ED	1	2	3	08	26S	31E	612942	3547316*	300	292	8
<u>C 03554-POD1</u>	C	ED	2	1	4	01	26S	31E	620077	3549022	1000		

Average Depth to Water: 304 feet

Minimum Depth: 292 feet

Maximum Depth: 335 feet

Record Count: 5

PLSS Search:

Township: 26S

Range: 31E

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)		(R=POD has been replaced and no longer serves this file, C=the file is closed)		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)	
WR File Nbr	Sub basin Use Diversion Owner	County POD Number	Code Grant	q q q Source 6416 4 Sec Twr Rng	X Y
C 01777	C DOL 3 BUCK JACKSON	ED C 01777		Shallow 08 26S 31E	613245 3547409

**Record Count:** 1

**POD Search:**

POD Number: C 01777

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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8/4/13 5:41 PM



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin Use Diversion Owner	County	POD Number	Code Grant	Source	q q q 6416 4 Sec TwS Rng	X	Y
C 02090	DOM 3 MALCOM R. MADERA	ED	C 02090			4 4 01 26S 31E	620329	3548533

Record Count: 1

POD Search:

POD Number: C 02090

Sorted by: File Number

\*UTM location was derived from PLSS - see Help

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8/4/13 5:42 PM



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

		(acre ft per annum)			(R=POD has been replaced and no longer serves this file, C=the file is closed)			(quarters are 1=NW 2=NE 3=SW 4=SE)			(quarters are smallest to largest)			(NAD83 UTM in meters)
WR File Nbr	Sub basin Use Diversion Owner		County	POD Number	Code Grant	Source	q q q	6416 4	Sec	Tws	Rng	X		Y
C 02248	STK 3 BUCK JACKSON TRUST		ED	C 02248			1 2 3	08	26S	31E		612942		3547316*

Record Count: 1

### POD Search:

POD Number: C 02248

Sorted by: File Number

\*UTM location was derived from PLSS - see Help

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8/4/13 5:43 PM

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ACTIVE & INACTIVE POINTS OF DIVERSION





# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q q q	Sec	Tws	Rng	X	Y
C 02249		STK		3 BUCK JACKSON TRUST	ED	C 02249		6416 4	1 2 3	08	26S	31E	612942	3547316*

Record Count: 1

POD Search:

POD Number: C 02249

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.

8/4/13 5:44 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION

# Appendix IV

## LABORATORY ANALYSES

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

March 10, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU PC 5 STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/28/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

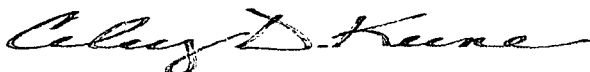
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Bass Enterprises  
JODY WALTERS  
522 W. Mermod #709  
Carlsbad NM, 88220  
Fax To: (505) 887-7473

Received: 02/28/2014  
Reported: 03/10/2014  
Project Name: PLU PC 5 STATE #1  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/28/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 11' (H400620-01)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2014	ND	2.25	112	2.00	1.45	
Toluene*	<0.050	0.050	03/06/2014	ND	2.37	118	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/06/2014	ND	2.31	116	2.00	4.27	
Total Xylenes*	<0.150	0.150	03/06/2014	ND	7.07	118	6.00	4.91	
Total BTX	<0.300	0.300	03/06/2014	ND					

Surrogate: Dibromofluoromethane 97.5 % 61.3-142  
Surrogate: Toluene-d8 103 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/05/2014	ND	416	104	400	3.77	

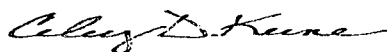
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2014	ND	198	98.9	200	8.32	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	192	96.1	200	9.24	
EXT DRO >C28-C35	<10.0	10.0	03/04/2014	ND					

Surrogate: 1-Chlorooctane 84.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 91.6 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Bass Enterprises  
JODY WALTERS  
522 W. Mermod #709  
Carlsbad NM, 88220  
Fax To: (505) 887-7473

Received: 02/28/2014  
Reported: 03/10/2014  
Project Name: PLU PC 5 STATE #1  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/28/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H400620-02)**

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2014	ND	2.25	112	2.00	1.45	
Toluene*	<0.050	0.050	03/06/2014	ND	2.37	118	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/06/2014	ND	2.31	116	2.00	4.27	
Total Xylenes*	<0.150	0.150	03/06/2014	ND	7.07	118	6.00	4.91	
Total BTEX	<0.300	0.300	03/06/2014	ND					

Surrogate: Dibromofluoromethane 95.4 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/05/2014	ND	416	104	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	03/04/2014	ND	198	98.9	200	8.32	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	192	96.1	200	9.24	
EXT DRO >C28-C35	<10.0	10.0	03/04/2014	ND					

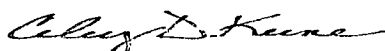
Surrogate: 1-Chlorooctane 82.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.7 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Bass Enterprises  
JODY WALTERS  
522 W. Mermod #709  
Carlsbad NM, 88220  
Fax To: (505) 887-7473

Received: 02/28/2014  
Reported: 03/10/2014  
Project Name: PLU PC 5 STATE #1  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/28/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H400620-03)**

BTEx 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2014	ND	2.25	112	2.00	1.45	
Toluene*	<0.050	0.050	03/06/2014	ND	2.37	118	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/06/2014	ND	2.31	116	2.00	4.27	
Total Xylenes*	<0.150	0.150	03/06/2014	ND	7.07	118	6.00	4.91	
Total BTEx	<0.300	0.300	03/06/2014	ND					

Surrogate: Dibromofluoromethane 97.3 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/05/2014	ND	416	104	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	03/04/2014	ND	198	98.9	200	8.32	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	192	96.1	200	9.24	
EXT DRO >C28-C35	<10.0	10.0	03/04/2014	ND					

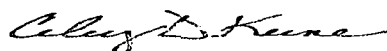
Surrogate: 1-Chlorooctane 86.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.3 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Bass Enterprises  
JODY WALTERS  
522 W. Mermod #709  
Carlsbad NM, 88220  
Fax To: (505) 887-7473

Received: 02/28/2014  
Reported: 03/10/2014  
Project Name: PLU PC 5 STATE #1  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/28/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2' (H400620-04)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2014	ND	2.25	112	2.00	1.45	
Toluene*	<0.050	0.050	03/06/2014	ND	2.37	118	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/06/2014	ND	2.31	116	2.00	4.27	
Total Xylenes*	<0.150	0.150	03/06/2014	ND	7.07	118	6.00	4.91	
Total BTEx	<0.300	0.300	03/06/2014	ND					

Surrogate: Dibromofluoromethane 98.4 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/05/2014	ND	416	104	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	03/04/2014	ND	198	98.9	200	8.32	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	192	96.1	200	9.24	
EXT DRO >C28-C35	<10.0	10.0	03/04/2014	ND					

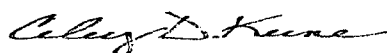
Surrogate: 1-Chlorooctane 83.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.8 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Bass Enterprises  
JODY WALTERS  
522 W. Mermod #709  
Carlsbad NM, 88220  
Fax To: (505) 887-7473

Received: 02/28/2014  
Reported: 03/10/2014  
Project Name: PLU PC 5 STATE #1  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/28/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H400620-05)**

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2014	ND	2.25	112	2.00	1.45	
Toluene*	<0.050	0.050	03/06/2014	ND	2.37	118	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/06/2014	ND	2.31	116	2.00	4.27	
Total Xylenes*	<0.150	0.150	03/06/2014	ND	7.07	118	6.00	4.91	
Total BTEX	<0.300	0.300	03/06/2014	ND					

Surrogate: Dibromofluoromethane 96.3 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/05/2014	ND	416	104	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	03/04/2014	ND	198	98.9	200	8.32	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	192	96.1	200	9.24	
EXT DRO >C28-C35	<10.0	10.0	03/04/2014	ND					

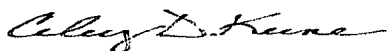
Surrogate: 1-Chlorooctane 86.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.7 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

Bass Enterprises  
JODY WALTERS  
522 W. Mermod #709  
Carlsbad NM, 88220  
Fax To: (505) 887-7473

Received: 02/28/2014  
Reported: 03/10/2014  
Project Name: PLU PC 5 STATE #1  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/28/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 1' (H400620-06)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2014	ND	2.25	112	2.00	1.45	
Toluene*	<0.050	0.050	03/06/2014	ND	2.37	118	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/06/2014	ND	2.31	116	2.00	4.27	
Total Xylenes*	<0.150	0.150	03/06/2014	ND	7.07	118	6.00	4.91	
Total BTEX	<0.300	0.300	03/06/2014	ND					

Surrogate: Dibromofluoromethane 94.6 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/05/2014	ND	416	104	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	03/04/2014	ND	198	98.9	200	8.32	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	192	96.1	200	9.24	
EXT DRO >C28-C35	<10.0	10.0	03/04/2014	ND					

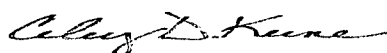
Surrogate: 1-Chlorooctane 82.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.9 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Bass Enterprises  
JODY WALTERS  
522 W. Mermod #709  
Carlsbad NM, 88220  
Fax To: (505) 887-7473

Received: 02/28/2014  
Reported: 03/10/2014  
Project Name: PLU PC 5 STATE #1  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/28/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 2' (H400620-07)**

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05		
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70		
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87		
Total BTEx	<0.300	0.300	03/07/2014	ND						

Surrogate: Dibromofluoromethane 96.8 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	03/05/2014	ND	416	104	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	03/04/2014	ND	198	98.9	200	8.32	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	192	96.1	200	9.24	
EXT DRO >C28-C35	<10.0	10.0	03/04/2014	ND					

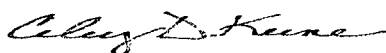
Surrogate: 1-Chlorooctane 81.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.1 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Bass Enterprises  
JODY WALTERS  
522 W. Mermod #709  
Carlsbad NM, 88220  
Fax To: (505) 887-7473

Received:	02/28/2014	Sampling Date:	02/28/2014
Reported:	03/10/2014	Sampling Type:	Soil
Project Name:	PLU PC 5 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 8 @ 4' (H400620-08)**

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTEX	<0.300	0.300	03/07/2014	ND					

Surrogate: Dibromofluoromethane 96.6 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.8 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/05/2014	ND	416	104	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	03/04/2014	ND	198	98.9	200	8.32	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	192	96.1	200	9.24	
EXT DRO >C28-C35	<10.0	10.0	03/04/2014	ND					

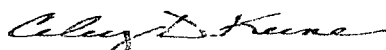
Surrogate: 1-Chlorooctane 86.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Bass Enterprises  
JODY WALTERS  
522 W. Mermod #709  
Carlsbad NM, 88220  
Fax To: (505) 887-7473

Received: 02/28/2014  
Reported: 03/10/2014  
Project Name: PLU PC 5 STATE #1  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/28/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 9 @ 3' (H400620-09)**

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTEX	<0.300	0.300	03/07/2014	ND					

Surrogate: Dibromofluoromethane 96.8 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/05/2014	ND	416	104	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	03/04/2014	ND	198	98.9	200	8.32	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	192	96.1	200	9.24	
EXT DRO >C28-C35	<10.0	10.0	03/04/2014	ND					

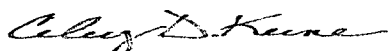
Surrogate: 1-Chlorooctane 83.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.9 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

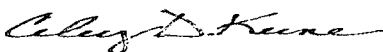
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received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

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**(575) 393-2326 FAX (575) 393-2476**

Company Name: Bopco				BILL TO				ANALYSIS REQUEST																															
Project Manager: Jody Walters				P.O. #:																																			
Address:				Company: Bopco																																			
City:		State:		Zip:		Attn: Tony Savoie																																	
Phone #:		Fax #:		Address:																																			
Project #:		Project Owner:		City:																																			
Project Name: PLU PCS State 1				State:				Zip:																															
Project Location:				Phone #:																																			
Sampler Name: Lance Crenshaw				Fax #:																																			
FOR LAB USE ONLY								MATRIX				PRESERV		SAMPLING																									
Lab I.D.		Sample I.D.		GIRAB OR (COMP. # CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
H40062D																																							
1		SP1E 11'		G		G				✓								✓		✓				2-28		2:00		✓											
2		SP2E 11'		G		G				✓								✓		✓				2-28		2:00		✓											
3		SP3E 11'		G		G				✓								✓		✓				2-28		2:00		✓											
4		SP4E 2'		G		G				✓								✓		✓				2-28		2:00		✓											
5		SP5E 11'		G		G				✓								✓		✓				2-28		2:00		✓											
6		SP6E 11'		G		G				✓								✓		✓				2-28		2:00		✓											
7		SP7E 2'		G		G				✓								✓		✓				2-28		2:00		✓											
8		SP8E 4'		G		G				✓								✓		✓				2-28		2:00		✓											
9		SP9E 3'		G		G				✓								✓		✓				2-28		2:00		✓											

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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Lance Chenhan		Time:	Jodi Henson	Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:		
		Time:		aruthediversifiedesi.com		
				ssuallters@basspet.com		
Delivered By: (Circle One)		Sample Condition	CHECKED BY:			
Sampler - UPS - Bus - Other:		Cool Intact	(Initials)			
3.60		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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March 28, 2014

TONY SAVOIE

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: POKER LAKE UNIT PC 5 STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 03/20/14 16:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Bass Enterprises  
TONY SAVOIE  
522 W. Mermod #709  
Carlsbad NM, 88220  
Fax To: (505) 887-7473

Received:	03/20/2014	Sampling Date:	03/20/2014
Reported:	03/28/2014	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT PC 5 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

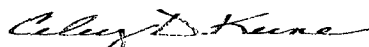
**Sample ID: N. WALL (H400856-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1120</b>	16.0	03/26/2014	ND	416	104	400	0.00	
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	03/25/2014	ND	212	106	200	7.01	
<b>DRO &gt;C10-C28</b>	<b>20.7</b>	10.0	03/25/2014	ND	202	101	200	4.01	
EXT DRO >C28-C35	<10.0	10.0	03/25/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	98.5 %	65.2-140							
Surrogate: 1-Chlorooctadecane	98.3 %	63.6-154							

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

Bass Enterprises  
TONY SAVOIE  
522 W. Mermod #709  
Carlsbad NM, 88220  
Fax To: (505) 887-7473

Received:	03/20/2014	Sampling Date:	03/20/2014
Reported:	03/28/2014	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT PC 5 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: BOTTOM 3' (H400856-02)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2014	ND	1.98	98.8	2.00	8.58	
Toluene*	<0.050	0.050	03/27/2014	ND	1.90	95.2	2.00	8.25	
Ethylbenzene*	<0.050	0.050	03/27/2014	ND	1.88	93.8	2.00	7.88	
Total Xylenes*	<0.150	0.150	03/27/2014	ND	5.51	91.8	6.00	9.07	
Total BTX	<0.300	0.300	03/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 106 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	03/26/2014	ND	416	104	400	0.00	

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	03/25/2014	ND	212	106	200	7.01	
DRO >C10-C28	86.8	10.0	03/25/2014	ND	202	101	200	4.01	
EXT DRO >C28-C35	22.4	10.0	03/25/2014	ND					

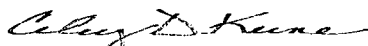
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Bass Enterprises  
 TONY SAVOIE  
 522 W. Mermod #709  
 Carlsbad NM, 88220  
 Fax To: (505) 887-7473

Received:	03/20/2014	Sampling Date:	03/20/2014
Reported:	03/28/2014	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT PC 5 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

**Sample ID: E WALL (H400856-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>880</b>	16.0	03/26/2014	ND	416	104	400	0.00	
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	03/25/2014	ND	212	106	200	7.01	
DRO >C10-C28	<10.0	10.0	03/25/2014	ND	202	101	200	4.01	
EXT DRO >C28-C35	<10.0	10.0	03/25/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	105 %	65.2-140							
Surrogate: 1-Chlorooctadecane	104 %	63.6-154							

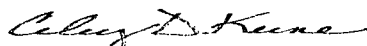
**Sample ID: S WALL #2 (H400856-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2280</b>	16.0	03/26/2014	ND	416	104	400	0.00	
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	03/25/2014	ND	212	106	200	7.01	
<b>DRO &gt;C10-C28</b>	<b>44.9</b>	10.0	03/25/2014	ND	202	101	200	4.01	
EXT DRO >C28-C35	<10.0	10.0	03/25/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	90.0 %	65.2-140							
Surrogate: 1-Chlorooctadecane	96.1 %	63.6-154							

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Bass Enterprises  
 TONY SAVOIE  
 522 W. Mermod #709  
 Carlsbad NM, 88220  
 Fax To: (505) 887-7473

Received:	03/20/2014	Sampling Date:	03/20/2014
Reported:	03/28/2014	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT PC 5 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

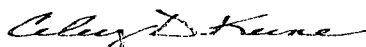
**Sample ID: W WALL #4 (H400856-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/26/2014	ND	416	104	400	0.00	
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	03/25/2014	ND	212	106	200	7.01	
DRO >C10-C28	<10.0	10.0	03/25/2014	ND	202	101	200	4.01	
EXT DRO >C28-C35	<10.0	10.0	03/25/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	101 %	65.2-140							
Surrogate: 1-Chlorooctadecane	97.0 %	63.6-154							

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

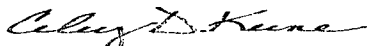
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Celey D. Keene, Lab Director/Quality Manager



1 of 1

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Diversified Field Services</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																										
Project Manager: <u>Amy Ruth</u>		P.O. #:		<div>Chloride TPH 8015 M BTX</div>																										
Address:		Company: <u>BDPCD</u>																												
City: State: Zip:		Attn: <u>Tony</u>																												
Phone #: Fax #:		Address:																												
Project #: Project Owner:		City:																												
Project Name: <u>Poker Lake Unit PC5 State #1</u>		State: Zip:																												
Project Location: <u>Eddy County, NM</u>		Phone #:																												
Sampler Name: <u>Amy Ruth</u>		Fax #:																												
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME															
	H4008516																													
	1. N Wall		G	1			✓				✓			3-20-14	0800	✓	✓													
	2. Bottom 3'		G	1			✓				✓			3-20-14	0815	✓	✓	✓												
	3. E Wall		G	1			✓				✓			3-20-14	0830	✓	✓													
	4. S Wall #2		G	1			✓				✓			3-20-14	1000	✓	✓													
	5. W Wall #4		G	1			✓				✓			3-20-14	1230	✓	✓													

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 the client for the 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 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.

Relinquished By: <u>[Signature]</u>	Date: <u>3-20-14</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>2:15 pm</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <u>[Signature]</u>	Date: <u>3-20-14</u>	Received By: <u>[Signature]</u>	REMARKS: <u>Email results:</u>	
	Time: <u>4:27 pm</u>		<u>tsavoie@BassPet.com</u>	
Delivered By: (Circle One)		Sample Condition	<u>STWalters@BassPet.com</u>	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<u>aruth@diversifiedpsi.com</u>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
		Checked By: <u>[Signature]</u>		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326




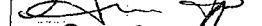



Page 7 of 7

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**101 East Marland, Hobbs, NM 88240**  
**(575) 393-2326 FAX (575) 393-2476**

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 the client for the 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 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 as a result 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.

Relinquished By: 		Date: 3-20-14	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: 2:15 pm				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By: 		Date: 3-20-14	Received By: 	REMARKS: Email results: tsavoie@BassPet.com SWalters@BassPet.com aruth@diversifiedpsi.com
Time: 4:27 pm				
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials) 
Sampler - UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

# Appendix V

## CORRESPONDENCE

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

# New Mexico State Land Office

## Rights of Way Division

(505) 827-5842 P.O. Box 1148 Santa Fe, NM 87504



## RIGHT OF ENTRY (ROE) REQUEST FOR REMEDATION

Company Name BOPCO, L.P.  
Address 522 W. Mermod, Suite 704  
City, State, Zip Carlsbad, NM 88220  
Contact Person: Tony Savoie  
Telephone #: 432-556-8730  
Email: tasavoie@basspet.com

Purpose of request: For remediation of the Poker Lake Unit Pierce Canyon 5 State No. 1H

Section 5 Township 25S Range 30E Unit Letter P

Qtr/Qtr 64/16/4 County Eddy

GPS Location (decimal degrees): Latitude 32.153234420163 W Longitude -103.895938985943 N

If this is a remediation for a spill please attach a copy of the OCD C-141 form.

Is the completed C-141 attached? Yes ☒ No ☐

Square footage of spill impacted surface: 675 of road and 480 pasture

Estimated square footage of total disturbance: 1155 sq. ft.

Reclamation Plan (*attach addl. sheet if necessary*) DFSI will remove impacted soil to a NMOCD approved facility. Intermediate soil samples will be taken and sent to an approved lab for confirmation.

Pasture area will be re-seeded and returned to its natural state according to BLM guidelines.

Driving directions from nearest state highway or road (*attach a map of the location*):

Take hwy 285 east 27.5 miles turn left on to Whitehorn rd. 4 mi. to Pipeline rd. go 1.8 miles turn left go 2.2 miles turn right go 5 miles turn left go 299 ft turn right go .7 mi turn left go .9 miles

Lease number associated with the ROE request: API 30-015-36998

Well Name and/or Operator (if applicable): Poker Lake Unit Pierce Canyon 5 State No. 1H

Time expected to complete remediation: 180 days

Personnel present on State Land DFSI and BOPCO personnel

Equipment & materials present on State Land Excavating equipment

\$530.00 application fee (based on 180 days) can be renewed for up to 3 years.

Payable to: The Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, NM 87504-1148

Revised (08/2008)







Directions to Unknown road  
44.8 mi – about 1 hour 12 mins



Carlsbad, NM

1. Head north on N Canal St toward W Stevens St  
go 305 ft  
total 305 ft
2. Take the 1st right onto W Stevens St  
go 381 ft  
total 0.1 mi
3. Take the 1st right onto N Canyon St  
About 1 min  
go 0.2 mi  
total 0.4 mi
4. Take the 3rd right onto W Greene St  
go 423 ft  
total 0.4 mi
5. Take the 1st left onto US-180 W/US-285 S/US-62 W/S Canal St  
Continue to follow US-180 W/US-285 S/US-62 W  
About 4 mins  
go 2.0 mi  
total 2.5 mi
6. Slight left onto US-285 S  
About 27 mins  
go 27.5 mi  
total 30.0 mi
7. Turn left onto Whitehorn Rd  
About 10 mins  
go 4.0 mi  
total 34.1 mi
8. Turn left onto Pipeline Road Number 1  
About 5 mins  
go 1.8 mi  
total 35.9 mi
9. Turn left  
About 6 mins  
go 2.2 mi  
total 38.1 mi
10. Turn right  
About 12 mins  
go 5.0 mi  
total 43.1 mi
11. Turn left  
go 299 ft  
total 43.2 mi
12. Turn right  
About 3 mins  
go 0.7 mi  
total 43.9 mi
13. Turn left  
About 4 mins  
go 0.9 mi  
total 44.8 mi



Unknown road

J&M Welding & Fabrication, Inc 09/07  
A Division of Diversified Field Services, Inc  
PO Box 5966  
Hobbs, NM 88241  
575.397.6437

LEA COUNTY STATE BANK  
95-183/1122

49009

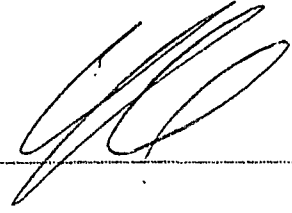
1/30/2014

PAY TO THE  
ORDER OF Comissioner of Public Lands

\$ \*\*530.00

Five Hundred Thirty and 00/100\*\*\*\*\* DOLLARS

Comissioner of Public Lands



MEMO

⑈049009⑈ ⑆112201836⑆ 05739930⑈

10000

## Amy Ruth

---

**From:** Savoie, Tony A. <TASavoie@BassPet.Com>  
**Sent:** Tuesday, February 25, 2014 10:09 AM  
**To:** Amy Ruth; Michael Patterson  
**Subject:** Fwd: Poker Lake Unit Pierce Canyon 5 State No. 1H  
**Attachments:** image001.png

Sent from my iPhone

Begin forwarded message:

From: Rebecca Pons <rpons@diversifiedfsi.com<mailto:rpons@diversifiedfsi.com>>  
Date: February 25, 2014 10:05:29 AM MST  
To: "TASavoie@BassPet.com<mailto:TASavoie@BassPet.com>"  
<TASavoie@BassPet.com<mailto:TASavoie@BassPet.com>>  
Subject: FW: Poker Lake Unit Pierce Canyon 5 State No. 1H

Good Morning Sir,  
I am forwarding this email to you from the Right of Entry Division in Santa Fe confirming there waiver of the permit for us to remediate, and entry to the site.  
Have a great day!  
Rebecca

From: Rebecca Pons  
Sent: Friday, February 21, 2014 10:45 AM  
To: 'Michael Patterson'; Amy Ruth  
Cc: 'SJWalters@BassPet.Com<mailto:SJWalters@BassPet.Com>'  
Subject: FW: Poker Lake Unit Pierce Canyon 5 State No. 1H

From: Martinez, Pete [mailto:PMartinez@slo.state.nm.us]  
Sent: Friday, February 21, 2014 10:34 AM  
To: Rebecca Pons  
Cc: Martinez, Donald; Baker, Lou; Vigil, Anthony; Jaramillo, Nick; Warnell, Terry  
Subject: RE: Poker Lake Unit Pierce Canyon 5 State No. 1H

Rebecca,

I have met with our Right-of-Way folks regarding the remediation of the Poker Lake Unit Pierce Canyon 5 State Well No. 1H site located in the SE/4SE/4 of Section 5-25S-30E. Since these lands are located on BOPCO's Poker Lake Unit and State Oil and gas Lease No. B-1678-1 is committed to the Unit, a Right-of-Entry to remediate this land is not required. Please proceed with the remediation.

Pete Martinez  
Unitizations

# Appendix VI

FINAL FORM C-141

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

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

2 RP-1197

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company: BOPCO, L.P.	Contact: Tony Savoie
Address: 522 W. Mermod Suite 704 Carlsbad, N.M.	Telephone No. 432-556-8730
Facility Name: Poker Lake Unit Pierce Canyon 5 State No. 1H	Facility Type: E & P

Surface Owner State of NM	Mineral Owner State of NM	API No. 30-015-36998
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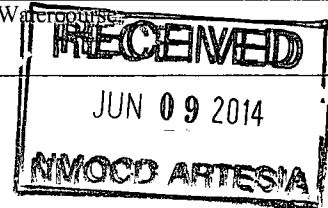
**LOCATION OF RELEASE**

Unit Letter P	Section 5	Township 25S	Range 30E	Feet from the 398	North/South Line South	Feet from 350	East/West Line East	County Eddy
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Latitude 32.215518 Longitude -103.894893

**NATURE OF RELEASE**

Type of Release: Produced water/oil	Volume of Release 10 bbls/15 Bbls of crude oil	Volume Recovered 0/0
Source of Release: 2 7/8" flow line	Date and Hour of Occurrence 05/25/12 at approximately 10:00 AM	Date and Hour of Discovery 05/25/12 11:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD Emergency #104 and State Land Office Andrew Kramer	
By Whom? Brian Wall	Date and Hour: 09/06/2013	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	
If a Watercourse was Impacted, Describe Fully.* NA		



Describe Cause of Problem and Remedial Action Taken.\*  
The flow line developed a leak due to the internal corrosion. A temporary repair clamp was placed on the pipe. One joint of pipe was replaced on 05/30/12  
DFSI was retained to remediate the site.

Describe Area Affected and Cleanup Action Taken.\*  
Approximately 675 sq. ft. of caliche road wand approximately 480 sq. ft. of pasture land. All of the released fluids were absorbed into the grounds. All  
remediation activities performed on behalf of BOPCO were in accordance with NMOCD and BLM compliance.

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 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.

Signature: <i>Tony Savoie</i>		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Tony Savoie		Approved by Environmental Specialist:	
Title: Waste Mgmt. & Remediation Specialist		Approval Date:	Expiration Date:
E-mail Address: TASavoie@BassPet.com		Conditions of Approval:	
Date: 6/9/14 05/05/2014 Phone: 432-556-8730		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary