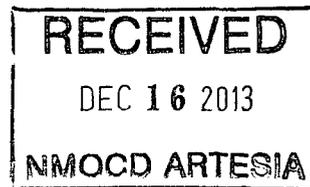


# BOPCO



# Poker Lake Unit #251H

## CLOSURE REPORT

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2RP-1903-0

API No. 30-015-34404

Release Date: 8/20/2013

Unit Letter I, Section 30, Township 24 South, Range 30 East

December 13, 2013

**Prepared by:**

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

# Table of Contents

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- 1 Introduction
- 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

# Poker Lake Unit 251H

## 1 INTRODUCTION

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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 flow line leak due to corrosion of the pipe. The leak released produced water and crude oil onto approximately 1500 sq. ft. of lease road and approximately 300 sq. ft. of a compressor pad location. The flow line was replaced. An initial form C-141 was submitted to the NMOCD on September 11, 2013 (Appendix I).

## 2 SITE ACTIVITIES

---

On September 18, 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). At SP (sample point) 2 and SP3 field personnel encountered auger refusal at 2 feet below ground surface (bgs). Samples were submitted to a commercial laboratory for chloride, TPH (GRO/DRO), and BTEX analyses (Appendix IV).

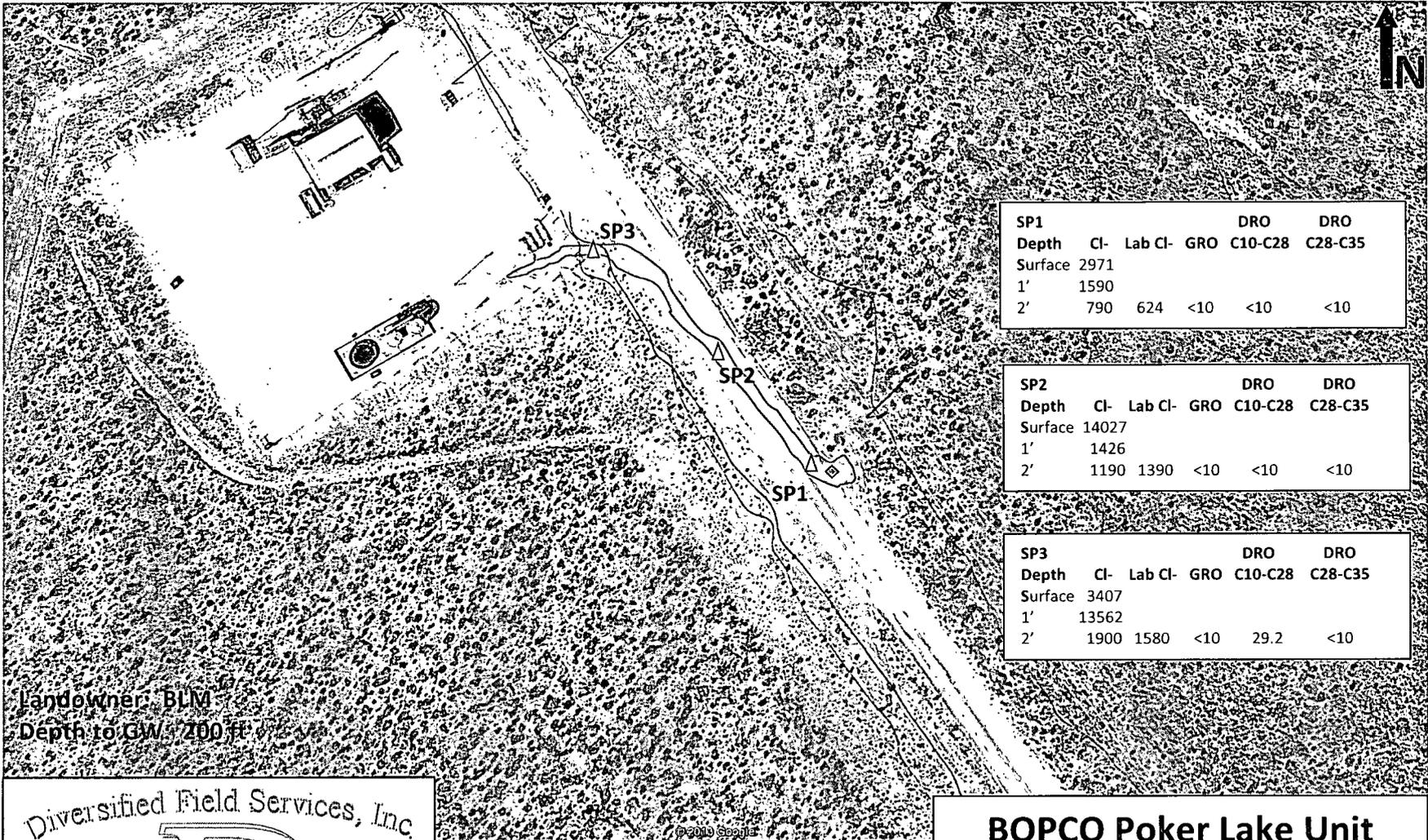
DFSI personnel excavated the site to 1.5 feet. Impacted soils were removed to a NMOCD approved disposal facility. The excavation was backfilled with a caliche, and the lease road was misted with water, compacted and leveled. Photographs of site activities can be viewed in Appendix II.

## 3 CONCLUSION

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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 118 ft. bgs (Appendix III). Based on the removal of soils containing elevated chloride and visual staining, Bopco respectfully requests the closure of the regulatory file for this site.

Figure: Site Diagram with Sample Data



SP1			DRO		DRO
Depth	Cl-	Lab Cl-	GRO	C10-C28	C28-C35
Surface	2971				
1'	1590				
2'	790	624	<10	<10	<10

SP2			DRO		DRO
Depth	Cl-	Lab Cl-	GRO	C10-C28	C28-C35
Surface	14027				
1'	1426				
2'	1190	1390	<10	<10	<10

SP3			DRO		DRO
Depth	Cl-	Lab Cl-	GRO	C10-C28	C28-C35
Surface	3407				
1'	13562				
2'	1900	1580	<10	29.2	<10

Landowner: BLM  
 Depth to GW: 200 ft

Diversified Field Services, Inc.  
 C & Co, LLC  
 J & M Welding and Fabrication, Inc.  
 Diversified Construction

- Legend
- Stained Area (total 1,800 ft<sup>2</sup>)
  - ◆ Injection Well
  - △ Sample Point

**BOPCO Poker Lake Unit**  
**#251 Flowline**  
 UL/I, Sec 30, T24S R30E  
 Eddy County, NM  
 Drafted By: A.C. Ruth, 11/11/13  
 Not to Scale

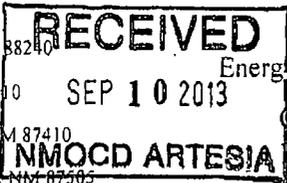
# Appendix I

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  
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  
220 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**

*nJMW1325449742*

**OPERATOR**  Initial Report  Final Report

Name of Company: BOPCO, L.P. <i>260737</i>	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU-251H Flow line Spill is 981 ft. S.W. of well pad. GPS coord is at the spill location.	Facility Type: Exploration and Production
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-015-34404	

**LOCATION OF RELEASE**

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

Latitude N 32.184857 Longitude W 103.912405

**NATURE OF RELEASE**

Type of Release: Crude oil and produced water	Volume of Release: 2 Bbls oil and 10 Bbls produced water	Volume Recovered: None
Source of Release: 27/8" flow line	Date and Hour of Occurrence: Date 8/20/13 time unknown	Date and Hour of Discovery: Date 8/20/13 time 9:00 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input 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 external corrosion. The section of pipe was replaced.		
Describe Area Affected and Cleanup Action Taken.* The spill stayed in the lease road area and traveled to the Regency Nash Draw Compressor site. Approximately 1500 sq. ft. of lease road and approximately 300 sq. ft. of compressor pad location. All of the fluid soaked into the ground. The road has had numerous reports of produced water being illegally dumped in the road way and compressor site. Soil samples were collected from various locations on the road on 9/10/13 to determine the extent of the release area and the existing chloride contamination due to illegal dumpings. A remediation plan will be submitted based on the findings of the sampling event.		
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: Signed By <i>Mike Beaudin</i>	
Title: Waste Management and Remediation Specialist	Approval Date: <b>SEP 11 2013</b>	Expiration Date:
E-mail Address: <i>tasavoie@basspet.com</i>	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. <b>SUBMIT REMEDIATION</b>	Attached <input type="checkbox"/>
Date: 9/10/13 Phone: 432-556-8730		

\* Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:  
*October 11, 2013*

*2RP-1903*

# Appendix II

## SITE PHOTOGRAPHS

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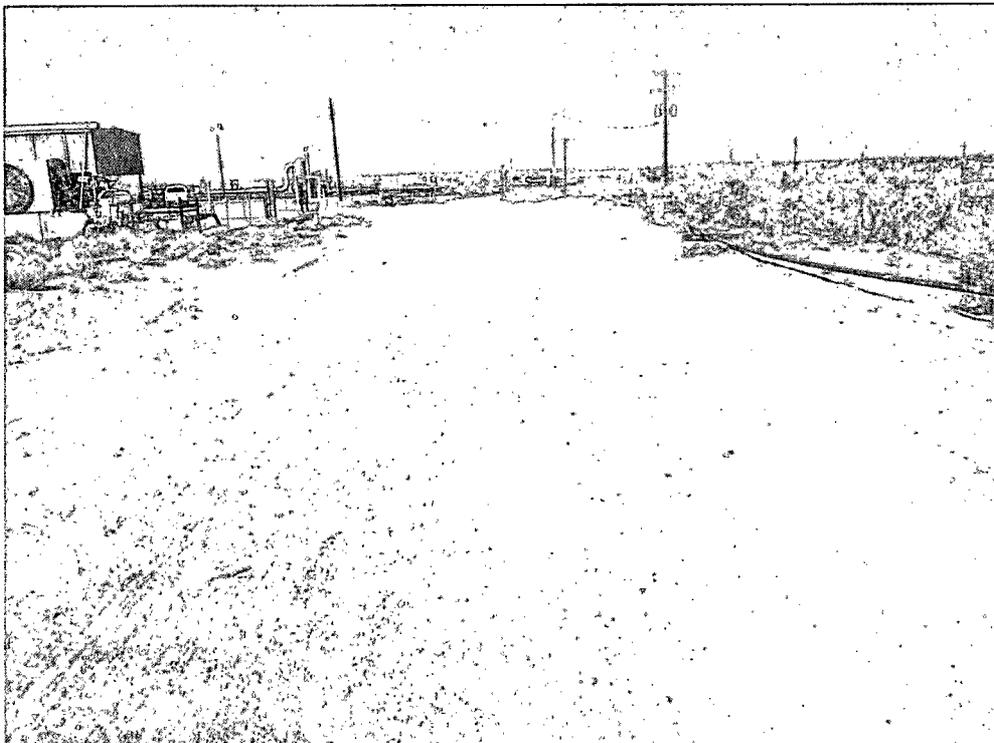
Diversified Field Service, Inc.  
3412 N. Dal Paso  
Hobbs, NM 88240  
(575) 964-8394

**BOPCO PLU-251H**

Unit Letter I, Section 30, T24S R30E



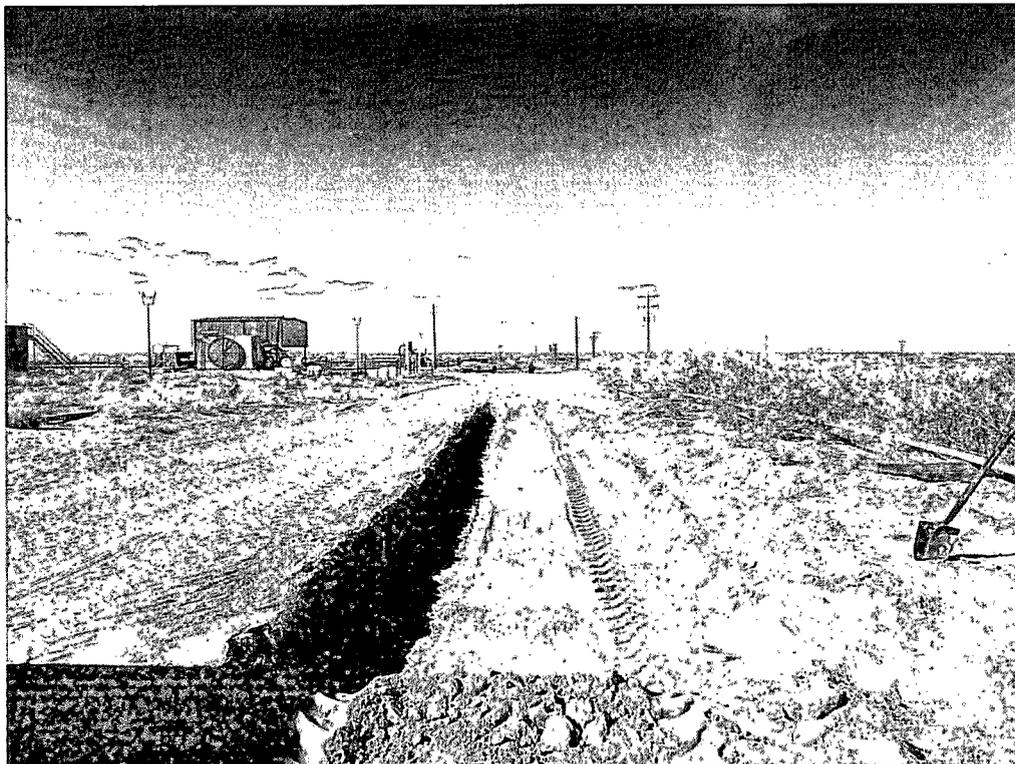
Sign marking location 11/16/13



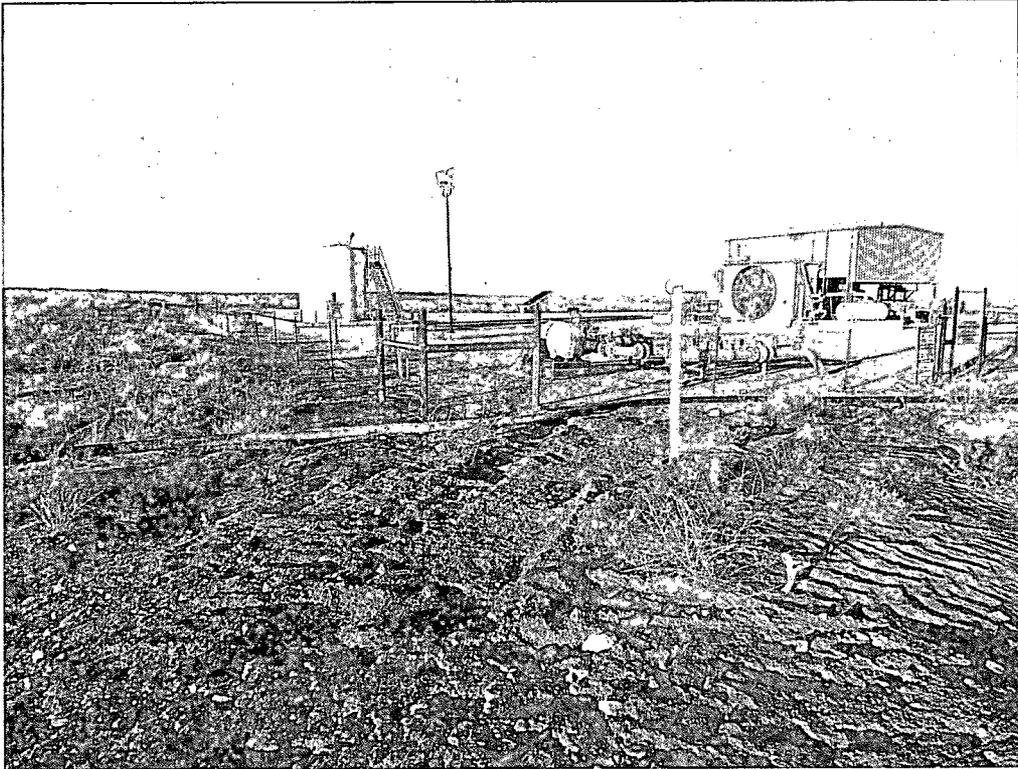
Spill location flow line SE of Nash Draw Station on lease road 11/16/13



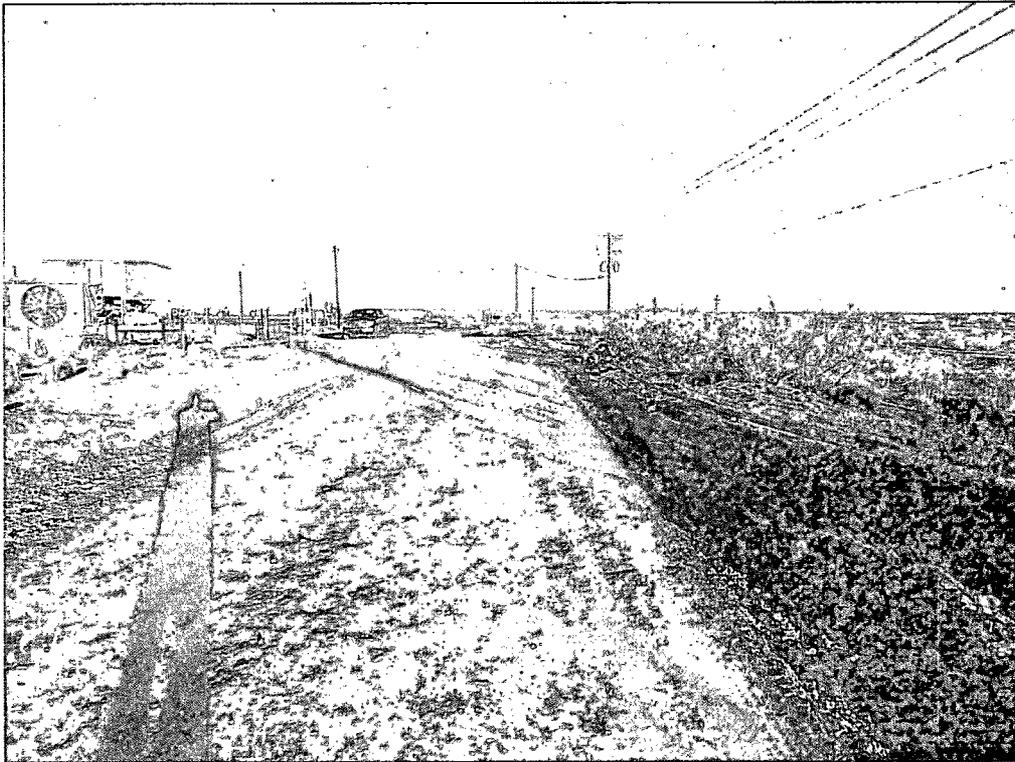
Impact at Nash Draw Site 11/16/13



Site at excavation 11/20/13



Backfilled site north end 12/03/13



Site at completion 12/3/12

# Appendix III

## GROUNDWATER DATA

---

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

# DEPTH TO GROUNDWATER

## BOPCO PLU #251 Flowline

UL:   1        Sec:   30        T:   24S        R:   30E  

Groundwater Depth:                   ~118                   ft. averaged

- = NM Office of the State Engineer
- = U.S. Geological Survey (unknown well)
- ⊗ = Site Location

*NMOCD GW trend map - 200 to 225 ft bgs*

Date: 11/11/13

By: Amy Ruth

<p>10' IMC K ○</p> <p>16' Mosaic MON ○</p> <p>38' JG IRR ○</p> <p>30' SF Energy PRO/DEV ○</p>	<p>28' IMC K ○</p> <p><b>23S 29E</b></p> <p>44' Mosaic MON ○</p> <p>18' IMC K ○</p>	<p>85' JM Trst COM ○</p> <p><b>23S 30E</b></p> <p>440' BLM STK ○</p>	<p>354' S Labs MON ○</p> <p>○ ○ ○ 168' USBLM STK</p> <p>○ 125' JM Trst STK</p> <p><b>23S 31E</b></p>	<p>160' Texaco/PRO, GRR&amp;CM/IRR ○</p>
<p>36' SWS Co MON ○</p> <p>26' SWS Co MON ○</p> <p>4' USGS PRO/DEV ○</p>	<p>18' RBWPC Dist ND ○</p> <p><b>24S 29E</b></p>	<p>186' M&amp;M Cattle Co. STK ○</p> <p><b>24S 30E</b></p> <p>⊗</p> <p>400' CW ○</p> <p>Mcdonald STK ○</p>	<p>205' Com of Pub Lands PRO ○</p> <p><b>24S 31E</b></p>	<p>205' Com of Pub Lands PRO</p>
<p>40' Gulf Oil PRO/DEV ○</p>	<p>40' AGC DOM ○</p> <p>60' TKWC Bank STK ○</p> <p><b>25S 29E</b></p> <p>○ 30' JN STK</p>	<p><b>25S 30E</b></p>	<p><b>25S 31E</b></p> <p>○ 390' BJT STK</p>	<p></p>



# 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 00571	C	ED		1	3	3	30	23S	29E	591241	3570957*	89	38	51
C 00571 CLW241602	O	ED		3	3	3	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		1	4	4	28	23S	29E	595649	3570959*	170		
C 02182	C	ED			4	30	23S	29E	592328	3571048*	75	30	45	
C 02608		ED		3	1	4	17	23S	29E	593598	3574387*	400		
C 02613		ED		4	4	2	20	23S	29E	594203	3573176*	400		
C 02704	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		4	1	3	15	23S	29E	596221	3574411*	400		
C 02716		ED		4	4	4	16	23S	29E	595818	3574002*	400		
C 02717		ED		4	2	4	16	23S	29E	595817	3574407*	400		
C 02718		ED		4	4	2	16	23S	29E	595816	3574812*	400		
C 02720		ED			2	1	21	23S	29E	594911	3573690*	150		
C 02721		ED			2	3	21	23S	29E	594915	3572879*	150		
C 02792		ED		4	3	04	23S	29E	594868	3577336*	200			
C 02793		ED		4	3	04	23S	29E	594868	3577336*	100			
C 02794		ED		4	3	10	23S	29E	596518	3575731*	100			
C 02795		ED		4	3	10	23S	29E	596518	3575731*	200			
C 02797		ED		2	3	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			
C 02806		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) (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				Rng	X	Y	Depth Well	Depth Water	Water Column	
	Sub-	Code basin	64	16	4	Sec							Tws
<u>C 02808</u>		ED	2	3	16	23S	29E	594909	3574501*	100			
<u>C 02809</u>		ED	2	3	16	23S	29E	594909	3574501*	100			
<u>C 03057 EXPLORE</u>		ED	4	1	1	21	23S	29E	594605	3573586*	150		
<u>C 03058 EXPLORE</u>		ED	4	1	1	16	23S	29E	594605	3575206*	150		
<u>C 03059 EXPLORE</u>		ED	4	1	3	17	23S	29E	592993	3574378*		65	
<u>C 03587 POD1</u>	C	ED	1	4	3	29	23S	29E	593338	3570754	99	44	55
<u>C 03587 POD2</u>	C	ED	1	2	4	19	23S	29E	592213	3572706	77	16	61

Average Depth to Water: **31 feet**  
 Minimum Depth: **10 feet**  
 Maximum Depth: **65 feet**

**Record Count: 33**

**PLSS Search:**

Township: 23S 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)

(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	Diversion	Owner	County	POD Number	Code	Grant	q q q			X	Y				
									Source	6416 4	Sec			Tws	Rng		
<u>C 00571</u>	C	IRR	362.4	JOHNNIE GIOVENGO, JR.	ED	<u>C 00571</u>			Shallow	1	3	3	30	23S	29E	591241	3570957*
<u>C 03121</u>	C	DOL	3	JOHNNIE GIOVENGO, JR.	ED	<u>C 00571</u>			Shallow	1	3	3	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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# 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			X	Y	
										6416	4	Sec			Tws
C 02182	C	PRO	0	SANTA FE ENERGY	ED	C 02182			Shallow	4	30	23S	29E	592328	3571048*

(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 02182

**Sorted by:** File Number

\*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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
C 02705	C			0 IMC KALIUM	ED	C 02705		Shallow	6416	4		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

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)

(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	Diversion	Owner	County	POD Number	Code Grant	Source	q q q	X	Y
C 02706	C		0	IMC KALIUM	ED	C 02706		Shallow	6416 4	4 18	23S 29E 592302 3574291*

**Record Count:** 1

**POD Search:**

POD Number: C 02706

**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.



# 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 02707	C			IMC KALIUM	ED	C 02707		Shallow	6416 4	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

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)

(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	Diversion	Owner	County	POD Number	Code Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
C 03587	MON		0	MOSAIC POTASH CARLSBAD INC	ED	C 03587 POD1		Shallow	1	4	3	29	23S	29E	593337	3570754

**Record Count:** 1

**POD Search:**

POD Number: C 03587 POD1

**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.



# 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	POD				Rng	X	Y	Depth Well	Depth Water Column	Water	
				64	16	4	Sec							Tws
<u>C 02095</u>			ED	2	3	34	23S	30E	606337	3569759*	554	440	114	
<u>C 02486</u>	C		ED	3	2	3	19	23S	30E	601304	3572832*	350		
<u>C 02770</u>			ED	4	4	1	14	23S	30E	608004	3574921*	286		
<u>C 02771</u>			ED	1	2	3	14	23S	30E	607807	3574718*	295		
<u>C 02772 POD1</u>	C		ED	4	4	1	14	23S	30E	608043	3574840	300		
<u>C 03139</u>			ED	4	2	4	01	23S	30E	610424	3577764*	425		
<u>C 03222 EXPLORE</u>			ED	1	1	4	12	23S	30E	609833	3576349*	365		
<u>C 03478 POD1</u>	C		ED	2	2	1	21	23S	30E	604825	3573894	300		
<u>C 03559 POD1</u>	C		ED	4	3	2	01	23S	30E	609928	3578260	50	0	50
<u>C 03559 POD2</u>	C		ED	4	3	2	01	23S	30E	609928	3578260	25	0	25
<u>C 03559 POD3</u>	C		ED	4	3	2	01	23S	30E	609928	3578260	20	0	20
<u>C 03559 POD4</u>	C		ED	4	3	2	01	23S	30E	609928	3578260	25	0	25
<u>C 03559 POD5</u>	C		ED	4	3	2	01	23S	30E	609912	3578236	50		

Average Depth to Water: **88 feet**

Minimum Depth: **0 feet**

Maximum Depth: **440 feet**

**Record Count:** 13

**PLSS Search:**

Township: 23S

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.



# 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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
C 02095		STK	8	BUREAU OF LAND MANAGEMENT	ED	C 02095		6416 4	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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# 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 Q Q				Rng	X	Y	Depth Well	Depth Water	Water Column	
				64	16	4	Sec							Tws
<u>C 02258</u>	C	ED		3	2	26	23S	31E	618055	3571853*	662			
<u>C 02348</u>	C	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
<u>C 02492 POD2</u>	C	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		
<u>C 02865</u>		ED		4	4	4	06	23S	31E	612056	3577320*	174		
<u>C 02954 EXPL</u>		ED		3	1	4	20	23S	31E	613114	3572906*	905		
<u>C 03140</u>		ED		4	2	4	04	23S	31E	615266	3577758*	684		
<u>C 03351</u>	C	ED		4	1	4	04	23S	31E	614917	3577861	320	168	152
<u>C 03520 POD1</u>	C	ED		3	1	1	07	23S	31E	610733	3576905	500		

Average Depth to Water: **183 feet**  
 Minimum Depth: **85 feet**  
 Maximum Depth: **354 feet**

**Record Count: 16**

**PLSS Search:**

**Township: 23S      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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	q q q				X	Y		
									Source	6416 4	Sec	Tws			Rng	
<u>C 02492</u>		COM	105	THE JIMMY MILLS GST TRUST	ED	<u>C 02492</u>			Shallow	4	4	06	23S	31E	612056	3577320*
<u>C 03668</u>	C	STK	3	J T MILLS 2005 GST TRUST	ED	<u>C 02492</u>	POD2		Shallow	3	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

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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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q q q	Sec	Tws	Rng	X	Y
<u>C 02664</u>		MON	0	SANDIA NATIONAL LABORATORIES	ED	<u>C 02664</u>		Shallow	6416 4	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

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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			X	Y			
									6416	4	4			04	23S	31E
<u>C 03351</u>	C	STK	3	UNITED STATES BUREAU OF LAND MANAGEMENT	ED	<u>C 03351</u>		Shallow	4	1	4	04	23S	31E	614916	3577861

(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 03351

**Sorted by:** File Number

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# 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.)

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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 00349</u>	C	CUB	ED	1	3	18	24S	29E		591401	3564773*	2734		
<u>C 00381</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 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		
<u>C 00863</u>			ED	3	3	1	16	24S	29E	594524	3565091*	220		
<u>C 00863 CLW199506</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
<u>C 03615 POD1</u>		C	ED	1	3	2	06	24S	29E	591964	3568500	60	36	24
<u>C 03615 POD2</u>		C	ED	4	2	4	06	24S	29E	592661	3568013	60	26	34

Average Depth to Water: **21 feet**  
 Minimum Depth: **4 feet**  
 Maximum Depth: **36 feet**

**Record Count:** 11

**PLSS Search:**

**Township:** 24S

**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			X	Y				
									q	q	q						
C 00463	C	PRO	0	U.S. GEOLOGICAL SURVEY	ED	C 00463			Shallow	4	4	4	17	24S	29E	594332	3564282*

(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 00463

**Sorted by:** File Number

\*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					X	Y				
								Source	6416	4	Sec			Tws	Rng		
<u>C 02713</u>		IND	645	RED BLUFF WATER POWER CONTROL DISTRICT	ED	<u>C 02713</u>		Shallow	4	4	1	16	24S	29E	591633	3565944	
<u>C 03360</u>	C	PRO	0	REEF EXPLORATION	ED	<u>C 02713</u>		Shallow	4	4	1	16	24S	29E	591633	3565944	

(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:** 2

**POD Search:**

POD Number: C 02713

**Sorted by:** File Number

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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			X	Y			
						6416 4	Sec	Tws			Rng		
C 03615	C MON 0 SOUTHWEST SALT COMPANY LLC	ED	C 03615 POD1		Shallow	1	3	2	06	24S	29E	591963	3568500

(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 03615 POD1

**Sorted by:** File Number

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# 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	POD				Rng	X	Y		Depth Well	Depth Water	Water Column	
				64	16	4	Sec								Tws
<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
<u>C 02110</u>			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		
<u>C 03558 POD1</u>	C		ED	1	2	2	25	24S	30E	610412	3562651		20	0	20
<u>C 03558 POD2</u>	C		ED	1	2	2	25	24S	30E	610412	3562651		20	0	20
<u>C 03558 POD3</u>	C		ED	1	2	2	25	24S	30E	610412	3562651		25	0	25
<u>C 03558 POD4</u>	C		ED	1	2	2	25	24S	30E	610412	3562651		25	0	25
<u>C 03558 POD5</u>	C		ED	1	2	2	25	24S	30E	610412	3562651		30	0	30

Average Depth to Water: **92 feet**  
 Minimum Depth: **0 feet**  
 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

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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				X	Y			
								q	q	q	q					
C 02108	STK		3	A PARTNERSHIP M&M CATTLE CO	ED	C 02108		6416	4	1	3	08	24S	30E	602702	3566487*

(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 02108

**PLSS Search:**

Township: 24S Range: 30E

**Sorted by:** File Number

\*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		X	Y
								q	q		
C 02110	STK		3	CLARENCE W. MCDONALD	ED	C 02110		64164	4	608036	3562950*

(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 02110

**PLSS Search:**

Township: 24S Range: 30E

**Sorted by:** File Number

\*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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant					X	Y		
								Source	q	q	q				
<u>C 00225 A</u>		IRR	8.4	GREGORY ROCKHOUSE RANCH	ED	<u>C 02405</u>		Shallow	4	1	02	24S	31E	617690	3568631*
<u>C 01246 AO</u>		IRR	47.82	CATHLEEN MC INTIRE	ED	<u>C 02405</u>		Shallow	4	1	02	24S	31E	617690	3568631*
<u>C 02405</u>	C	PRO	0	TEXACO EXPLORATION & PROD. IND	ED	<u>C 02405</u>		Shallow	4	1	02	24S	31E	617690	3568631*
<u>C 02452</u>	C	PRO	0	TEXACO EXPLORATION & PROD INC.	ED	<u>C 02405</u>		Shallow	4	1	02	24S	31E	617690	3568631*
<u>C 02576</u>	C	PRO	0	SONAT EXPLORATION COMPANY	ED	<u>C 02405</u>		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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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

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 C=the file is closed) (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
<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

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# 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	POD				Rng	X	Y	Depth Well	Depth Water	Water Column
				64	16	4	Sec						
<u>C 01337</u>	C	ED		2	1	30	25S	29E	591926	3552642*	180	30	150
<u>C 01880</u>	C	ED		3	3	2	06	25S	592161	3558605*	85	40	45
<u>C 02371</u>	C	ED		2	3	15	25S	29E	596741	3555106*	200	60	140
<u>C 02459</u>	C	ED		4	4	1	02	25S	598422	3558663*	150		
<u>C 02518</u>	C	ED		3	4	08	25S	29E	593895	3556300*	462		
<u>C 02680</u>	C	ED		2	3	15	25S	29E	596741	3555106*	200		
<u>RA 07162 EXP2</u>		ED		1	3	1	10	25S	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)

(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	Diversion	Owner	County	POD Number	Code Grant	q q q			X	Y
								Source	Sec	Tws Rng		
C 01337	C	STK	3	JAMES NYMEYER	ED	C 01337		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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# 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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q	q	q	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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# 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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q q q	Sec	Tws	Rng	X	Y
<u>C 02371</u>	C	STK	3	TRAN KING & WESTERN COMM. BANK	ED	<u>C 02371</u>		Shallow	6416 4	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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# 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*

(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: RA 07162 EXP2

**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 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	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	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**

Basin/County Search:

Basin: Carlsbad                      County: Eddy

PLSS Search:

Township: 25S                      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.



# 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 Q Q			Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
				64	16	4								
<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

**Basin/County Search:**

Basin: Carlsbad

County: Eddy

**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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
C 02250		STK	3	BUCK JACKSON TRUST	ED	C 02250			64164	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

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.

# Appendix IV

## LABORATORY ANALYSES

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

September 24, 2013

AMY RUTH  
DIVERSIFIED FIELD SERVICES, INC.  
P. O. BOX 5966  
HOBBS, NM 88241

RE: PLU #251 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/18/13 13:25.

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\\_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:**

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

Received:	09/18/2013	Sampling Date:	09/16/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	PLU #251 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ 2' (H302274-01)**

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>624</b>	16.0	09/19/2013	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	09/20/2013	ND	180	89.8	200	5.90	
DRO >C10-C28	<10.0	10.0	09/20/2013	ND	167	83.3	200	9.08	
EXT DRO >C28-C35	<10.0	10.0	09/20/2013	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>91.7 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>103 %</i>	<i>63.6-154</i>							

**Sample ID: SP 2 @ 2' (H302274-02)**

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>1390</b>	16.0	09/19/2013	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	09/20/2013	ND	180	89.8	200	5.90	
DRO >C10-C28	<10.0	10.0	09/20/2013	ND	167	83.3	200	9.08	
EXT DRO >C28-C35	<10.0	10.0	09/20/2013	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>82.2 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>90.0 %</i>	<i>63.6-154</i>							

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 09/18/2013  
 Reported: 09/24/2013  
 Project Name: PLU #251 FLOWLINE  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/16/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H302274-03)**

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>1580</b>	16.0	09/19/2013	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	09/20/2013	ND	180	89.8	200	5.90	
<b>DRO &gt;C10-C28</b>	<b>29.2</b>	10.0	09/20/2013	ND	167	83.3	200	9.08	
EXT DRO >C28-C35	<10.0	10.0	09/20/2013	ND					

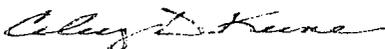
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

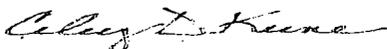
**Notes and Definitions**

- 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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**Cardinal Laboratories**\*=**Accredited Analyte**

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**Celey D. Keene, Lab Director/Quality Manager**



# Appendix V

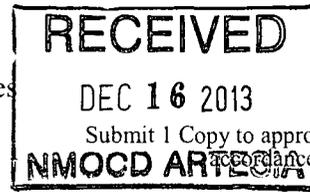
FINAL FORM C-141

---

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

**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. 575-887-7329
Facility Name: PLU-251H Flow Line Spill	Facility Type: Exploration and Production

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-34404
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
I	30	24S	3OE					

Latitude 32.184857 Longitude 103.912405

**NATURE OF RELEASE**

Type of Release Crude oil and produced water	Volume of Release 2bbls oil and 10bbls produced water	Volume Recovered None
Source of Release 27/8 flow line	Date and Hour of Occurrence 8/20/13 time unknown	Date and Hour of Discovery 8/20/13 9:00 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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 spill was contained on the lease road and traveled to the Regency Nash Draw Compressor site. Approximately 1500 sq. ft. of the lease road and approximately 300 sq. ft. of the compressor pad location. All of the fluid soaked into the ground. The road has had numerous reports of produced water being illegally dumped in the road way and compressor site. Soil samples were collected from various locations on the road on 9/10/13 to determine the extent of the release are and the existing chloride contamination due to the illegal dumping.

Describe Area Affected and Cleanup Action Taken.\*  
Spill affected area approximately 1500 sq. ft. of lease road and approximately 300 sq. ft. of compressor pad. The spill was delineated by Diversified Field Services, Inc. Impacted soils were removed to a NMOCD approved disposal facility. Confirmation samples were then submitted to a commercial lab for analyses. Backfill of the excavation was approved by the NMOCD and the BLM. The excavation was backfilled with caliche, lease road was sprayed with water, compacted and leveled.

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:		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Tony Savoie		Approved by Environmental Specialist:	
Title: Waste Management and Remediation Specialist		Approval Date:	Expiration Date:
E-mail Address: tasavoie@basspet.com		Conditions of Approval:	
Date:	Phone:	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary