

ENVIRONMENTAL PLUS, INC.

2100 AVE 'O'
P.O. BOX 1558
EUNICE, NM 88231
ddominguezepi@gmail.com
Office: (575)394-3481 Fax: (575)394-2601



CLOSURE REPORT

BOPCO, L.P.
PLU-CVX-JV-BS 27-1H
Eddy County, New Mexico
Unit Letter "E", Section 3, Township 25 South, Range 31 East
Latitude 32.160773 North, Longitude 103.770594 West
NMOCD Reference #2RP-2508

Prepared For:

BOPCO, L.P.
522 W. Mermod, Suite 704
Carlsbad, New Mexico 88220

Prepared By:

Environmental Plus, Inc.
2100 Ave 'O'
Eunice, NM 88231

December 2014

Daniel Dominguez
Project Manager



16 December 2014

Mr. Mike Bratcher
Environmental Specialist
NMOCD
811 S. First St.
Artesia, New Mexico 88210

RE: Final Closure Report
Bopco – PLU-CVX-JV-BS 27-1H
UL-E, Section 3, Township 25 South, Range 31 East
Eddy County, New Mexico
NMOCD Reference # 2RP 2508

Mr. Bratcher:

The following *Final Closure Report* serves as a condensed update on closure activities for the above referenced Site.

Background Information:

A pickup truck operated by Baker Hughes backed over a 10 inch lay flat frac hose creating a tear. The line was isolated and a section of hose was replaced. The spill impacted approximately 1,800 sq. ft. of caliche lease road and bar-ditch. A vacuum truck on-site recovered the free standing fluid. The remainder of the spill soaked into the road. A sampling event was conducted to determine the need for further remediation.

Remediation Activities:

EPI personnel mobilized on the site on October 24, 2014 to collect soil samples via hand auger to determine the vertical extent of contamination. A total of twenty-one (21) soil samples were collected from five (5) sample locations. On October 29, 2014 eight (8) additional, deeper, soil samples were collected from three (3) of the sample points; all samples were sent to Cardinal Labs in Hobbs, New Mexico; testing for Chloride concentrations. Laboratory analytical results indicate the release area is void of Chloride concentrations in excess of NMOCD Recommended Remedial Action Levels (RRALs) of 1,000 mg/Kg, in all samples except SP4. Chloride concentrations at SP4 exceed NMOCD RRALs only at a depth of four (4) to five (5) feet bgs (reference *Figure 3* and *Table 2*).

Closure Activities:

Based on laboratory analytical results of the samples collected on October 24 and 29, 2014, a notice of ‘no further action required’ was issued by the NMOCD for this site (reference *Table 2* and *Attachment III*).



Should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at ddominguezepi@gmail.com or Mr. Brad Blevins at (432) 214-3704 or via e-mail at bblevins@basspet.com. All official communication should be addressed to:

Mr. Brad Blevins
Bopco, L.P.
522 W. Mermond, Suite 704
Carlsbad, NM 88220

Sincerely,

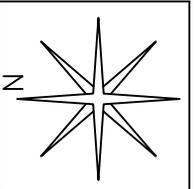
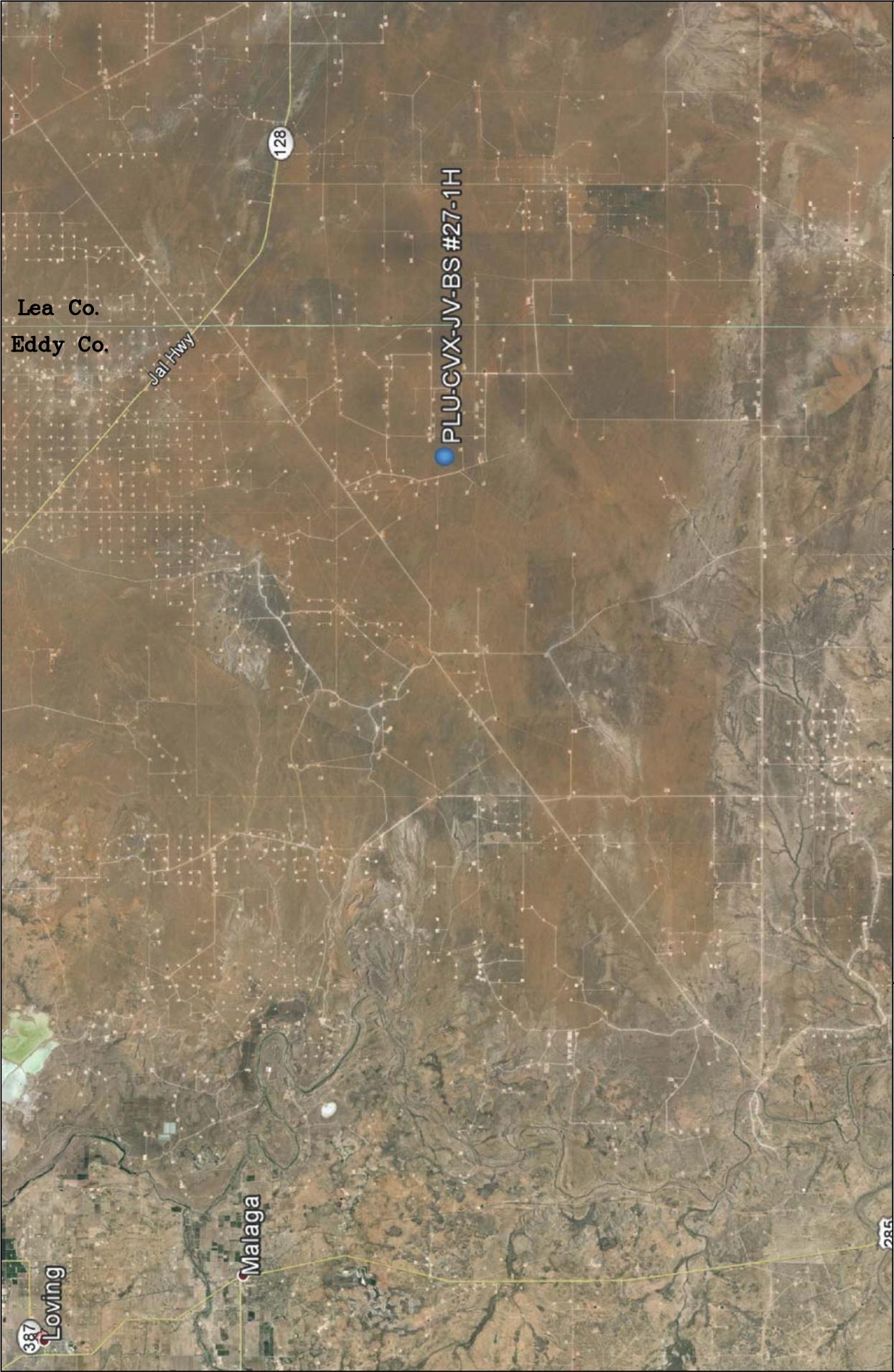
ENVIRONMENTAL PLUS, INC.

Daniel Dominguez
Environmental Consultant

cc: Brad Blevins, EHS Asst. Remediation Foreman – Bopco, L.P.
Tony Savoie, Remediation Foreman – Bopco, L.P. 1(432)556-8730
File

Encl.: Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Site/Sample Map
Table 1 – Well Data
Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results
Attachment I – Photographs
Attachment II – Laboratory Analytical Results
Attachment III – Copy of NMOCD Email Notice of No Further Action Required
Attachment IV – Copy of Initial NMOCD Form C-141, Final C-141

FIGURES



DWG By: D Dominguez
December 2014

REVISED:

0 3 6
Miles

SHEET
1 of 1

Eddy County, New Mexico
SW 1/4 of NW 1/4, Sec. 3, T25S, R31E
N 32° 9' 45.98" W 103° 46' 14.14"
Elevation: 3,445 feet amsl

Figure 1
Area Map
Bopco, L.P.
PLU-CVX-JV-BS 27-1H



<p>Figure 2 Site Location Map Bopco, L.P. PLU-CVX-JV-BS 27-1H</p>	<p>Eddy County, New Mexico SW 1/4 of NW 1/4, Sec. 3, T25S, R31E N 32° 9' 45.98" W 103° 46' 14.14" Elevation: 3,445 feet amsl</p>	<p>DWG By: D Dominguez December 2014</p>	<p>REVISED:</p> <p>0 2,000 4,000 SHEET 1 of 1</p> <p>Feet</p>	
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LEGEND	
XSP1	Sample Point

REVISED:

DWG By: D Dominguez December 2014	SHEET 1 of 1
--------------------------------------	-----------------

0 30 60 Feet

Eddy County, New Mexico
 SW 1/4 of NW 1/4, Sec. 3, T25S, R31E
 N 32° 9' 45.98" W 103° 46' 14.14"
 Elevation: 3,445 feet amsl

Figure 3
 Site/Sample Map
 Bopco, L.P.
 PLU-CVX-JV-BS 27-1H

Figure 3
 Site/Sample Map
 Bopco, L.P.
 PLU-CVX-JV-BS 27-1H

TABLES

TABLE 1

Well Data

Bopco, L.P. - PLU-CVX-JV-BS 27-1H

Ref #	Well Number	Use	Diversion ^A	Owner	q64	q16	q4	Sec	Twp	Rng	Easting	Northing	Date Measured	Surface Elevation ^B	Depth to Water	
															(ft)	(bgs)
1	C 02569	COM	12	BUREAU OF LAND MANAGEMENT	4	4	2	2	25S	31E	618699	3558891	01-Jan-66	3,469	--	--
2	C 02570	COM	3	BUREAU OF LAND MANAGEMENT	4	2	4	2	25S	31E	618704	3558489	06-Apr-68	3,479	--	--
3	C 02571	COM	3	BUREAU OF LAND MANAGEMENT	4	1	2	2	25S	31E	618292	3559294	22-May-68	3,476	--	--
4	C 02572	COM	3	OXY USA INC	4	2	2	2	25S	31E	618695	3559294	12-Oct-68	3,479	--	--
5	C 02573	COM	3	BUREAU OF LAND MANAGEMENT	1	4	2	2	25S	31E	618499	3559091	10-Dec-73	3,473	--	--
6	C 02574	COM	12	OXY USA INC	1	1	2	2	25S	31E	618092	3559494	08-Dec-73	3,482	--	--
7	C 02959	STK	3	RICHARDSON CATTLE COMPANY	1	3	2	33	24S	31E	614866	3560646		3,467	--	--

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet) and USGS Database

^A = In acre feet per annum

-- = Data not provided on the NM iwaters website

^B = Elevation interpolated from USGS topographical map based on referenced location.

COM = Commercial

STK = 72-12-1 Livestock watering

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
Bopco L.P.

PLU-CVX-JV Big Sinks 27-1H

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO C28-C35 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP1	Surface	In Situ	24-Oct-14	--	60	--	--	--	--	--	--	--	--	--	<16.0
	1	In Situ	24-Oct-14	--	160	--	--	--	--	--	--	--	--	--	<16.0
	2	In Situ	24-Oct-14	--	160	--	--	--	--	--	--	--	--	--	<16.0
	3	In Situ	24-Oct-14	--	1,200	--	--	--	--	--	--	--	--	--	992
	4	In Situ	24-Oct-14	--	720	--	--	--	--	--	--	--	--	--	912
	5	In Situ	29-Oct-14	--	360	--	--	--	--	--	--	--	--	--	304
SP2	6	In Situ	29-Oct-14	--	120	--	--	--	--	--	--	--	--	--	<16.0
	Surface	In Situ	24-Oct-14	--	200	--	--	--	--	--	--	--	--	--	<16.0
	1	In Situ	24-Oct-14	--	200	--	--	--	--	--	--	--	--	--	<16.0
	2	In Situ	24-Oct-14	--	240	--	--	--	--	--	--	--	--	--	48
	3	In Situ	24-Oct-14	--	800	--	--	--	--	--	--	--	--	--	784
	4	In Situ	29-Oct-14	--	2,000	--	--	--	--	--	--	--	--	--	--
SP3	5	In Situ	29-Oct-14	--	320	--	--	--	--	--	--	--	--	--	576
	6	In Situ	29-Oct-14	--	360	--	--	--	--	--	--	--	--	--	144
	Surface	In Situ	24-Oct-14	--	160	--	--	--	--	--	--	--	--	--	<16.0
	1	In Situ	24-Oct-14	--	160	--	--	--	--	--	--	--	--	--	<16.0
	2	In Situ	24-Oct-14	--	200	--	--	--	--	--	--	--	--	--	32
	3	In Situ	24-Oct-14	--	200	--	--	--	--	--	--	--	--	--	112

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
Bopco L.P.
PLU-CVX-JV Big Sinks 27-1H

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO C28-C35 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	
SP4	Surface	In Situ	24-Oct-14	--	160	--	--	--	--	--	--	--	--	--	<16.0	
	1	In Situ	24-Oct-14	--	160	--	--	--	--	--	--	--	--	--	<16.0	
	2	In Situ	24-Oct-14	--	160	--	--	--	--	--	--	--	--	--	<16.0	
	3	In Situ	24-Oct-14	--	480	--	--	--	--	--	--	--	--	--	736	
	4	In Situ	29-Oct-14	--	1,600	--	--	--	--	--	--	--	--	--	1,480	
	5	In Situ	29-Oct-14	--	1,080	--	--	--	--	--	--	--	--	--	1,390	
SP5	Surface	In Situ	24-Oct-14	--	160	--	--	--	--	--	--	--	--	--	<16.0	
	1	In Situ	24-Oct-14	--	240	--	--	--	--	--	--	--	--	--	<16.0	
	2	In Situ	24-Oct-14	--	160	--	--	--	--	--	--	--	--	--	<16.0	
	3	In Situ	24-Oct-14	--	120	--	--	--	--	--	--	--	--	--	32	
	NMOCD Recommended Remedial Action Levels				100		10				50				5,000	1,000
	NMOCD Recommended Remedial Action Levels															

-- = Not Analyzed
Bold values are in excess of NMOCD Recommended Remedial Action Levels

ATTACHMENTS

ATTACHMENT I
Photographs



Photograph #1 – Release Point



Photograph #2 – Looking across release area



Photograph #3 – Looking across release area



Photograph #4 – Looking across release area

ATTACHMENT II
Laboratory Analytical Results



October 31, 2014

Daniel Dominguez
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

RE: BIG SINKS 27-1H-1

Enclosed are the results of analyses for samples received by the laboratory on 10/28/14 9:30.

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.

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 written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

Received:	10/28/2014	Sampling Date:	10/24/2014
Reported:	10/31/2014	Sampling Type:	Soil
Project Name:	BIG SINKS 27-1H-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-E, SEC 3, T25S, R31E		

Sample ID: SP1 (SURFACE) (H403304-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	416	104	400	0.00	

Sample ID: SP1 (1') (H403304-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	416	104	400	0.00	

Sample ID: SP1 (2') (H403304-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	416	104	400	0.00	

Sample ID: SP1 (3') (H403304-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	10/28/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

Received:	10/28/2014	Sampling Date:	10/24/2014
Reported:	10/31/2014	Sampling Type:	Soil
Project Name:	BIG SINKS 27-1H-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-E, SEC 3, T25S, R31E		

Sample ID: SP1 (4') (H403304-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	10/28/2014	ND	416	104	400	0.00	

Sample ID: SP2 (SURFACE) (H403304-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP2 (1') (H403304-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP2 (2') (H403304-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP2 (3') (H403304-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	10/28/2014	ND	384	96.0	400	4.08	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

Received:	10/28/2014	Sampling Date:	10/24/2014
Reported:	10/31/2014	Sampling Type:	Soil
Project Name:	BIG SINKS 27-1H-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-E, SEC 3, T25S, R31E		

Sample ID: SP3 (SURFACE) (H403304-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP3 (1') (H403304-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP3 (2') (H403304-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP3 (3') (H403304-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP4 (SURFACE) (H403304-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

Received:	10/28/2014	Sampling Date:	10/24/2014
Reported:	10/31/2014	Sampling Type:	Soil
Project Name:	BIG SINKS 27-1H-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-E, SEC 3, T25S, R31E		

Sample ID: SP4 (1') (H403304-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP4 (2') (H403304-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP4 (3') (H403304-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP5 (SURFACE) (H403304-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP5 (1') (H403304-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 Daniel Dominguez
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 Eunice NM, 88231
 Fax To: (505) 394-2601

Received:	10/28/2014	Sampling Date:	10/24/2014
Reported:	10/31/2014	Sampling Type:	Soil
Project Name:	BIG SINKS 27-1H-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-E, SEC 3, T25S, R31E		

Sample ID: SP5 (2') (H403304-20)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

Sample ID: SP5 (3') (H403304-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

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

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

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

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
 (575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form
 LAB Cardinal

Bill To

ANALYSIS REQUEST

Company Name: Environmental Plus, Inc.
 EPI Project Manager: Daniel Dominguez
 Mailing Address: P.O. BOX 1558
 City, State, Zip: Eunice New Mexico 88231
 EPI Phone#/Fax#: 575-394-3481 / 575-394-2601
 Client Company: BOPCO
 Facility Name: Big Sinks 27-1H
 Location: UL-E Sec. 3, T25S, R31E
 Project Reference: David Robinson
 EPI Sampler Name: David Robinson

BOPCO, L.P.
 Attn: Brad Blevins
 522 W. Mermod, Suite 704
 Carlsbad, NM 88220

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL										
1	SP1 (Surface)	G	1	X		X				X	24-Oct-14	10:10			X						
2	SP1 (1')	G	1	X		X				X	24-Oct-14	10:11			X						
3	SP1 (2')	G	1	X		X				X	24-Oct-14	10:12			X						
4	SP1 (3')	G	1	X		X				X	24-Oct-14	10:13			X						
5	SP1 (4')	G	1	X		X				X	24-Oct-14	10:50			X						
6	SP2 (Surface)	G	1	X		X				X	24-Oct-14	10:51			X						
7	SP2 (1')	G	1	X		X				X	24-Oct-14	10:52			X						
8	SP2 (2')	G	1	X		X				X	24-Oct-14	10:53			X						
9	SP2 (3')	G	1	X		X				X	24-Oct-14	10:54			X						
10	SP3 (Surface)	G	1	X		X				X	24-Oct-14	11:20			X						

Sampler Relinquished by: *[Signature]* Date: 10/24/14 Received By: *[Signature]*

Relinquished by: *[Signature]* Date: 10/24/14 Received By: *[Signature]*

Delivered by: *[Signature]* 5:10 PM Sample-Cool & Intact: Yes No Checked By: *[Signature]*

NOTES: E-mail results to: ddominguezepi@gmail.com & blevins@basspet.com & tasavoie@basspet.com

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
 (575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB

Cardinal

Company Name: Environmental Plus, Inc.
 EPI Project Manager: Daniel Dominguez
 Mailing Address: P.O. BOX 1558
 City, State, Zip: Eunice New Mexico 88231
 EPI Phone#/Fax#: 575-394-3481 / 575-394-2601
 Client Company: BOPCO
 Facility Name: Big Sinks 27-1H
 Location: UL-E Sec. 3, T25S, R31E
 Project Reference:
 EPI Sampler Name: David Robinson

Bill To
 BOPCO, L.P.
 Attn: Brad Blevins
 522 W. Mermod, Suite 704
 Carlsbad, NM 88220

ANALYSIS REQUEST
 BTEX 8021B
 TPH 8015M
 CHLORIDES (Cl)
 SULFATES (SO₄²⁻)
 pH
 TCLP
 OTHER >>>
 PAH

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL										
11	SP3 (1')	G	1			X					X	24-Oct-14	11:21			X					
12	SP3 (2')	G	1			X					X	24-Oct-14	11:22			X					
13	SP3 (3')	G	1			X					X	24-Oct-14	11:23			X					
14	SP4 (Surface)	G	1			X					X	24-Oct-14	11:45			X					
15	SP4 (1')	G	1			X					X	24-Oct-14	11:46			X					
16	SP4 (2')	G	1			X					X	24-Oct-14	11:47			X					
17	SP4 (3')	G	1			X					X	24-Oct-14	11:48			X					
18	SP5 (Surface)	G	1			X					X	24-Oct-14	12:10			X					
19	SP5 (1')	G	1			X					X	24-Oct-14	12:11			X					
20	SP5 (2')	G	1			X					X	24-Oct-14	12:12			X					

Sampler Relinquished by: David Robinson
 Date: 10-24-14
 Time: 4:00 pm
 Received By: [Signature]
 Date: 10-24-14
 Time: 4:30 pm
 Received By: [Signature]
 Delivered by: [Signature] 5:70e
 Sample Cool & Intact: Yes
 Checked By: [Signature]

NOTES: E-mail results to: ddominguezepi@gmail.com & bblevins@basspet.com & tasavoie@basspet.com

#54

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
 (575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form
 LAB **Cardinal**

Company Name: Environmental Plus, Inc.

EPI Project Manager: Daniel Dominguez

Mailing Address: P.O. BOX 1558

City, State, Zip: Eunice New Mexico 88231

EPI Phone#/Fax#: 575-394-3481 / 575-394-2601

Client Company: BOPCO

Facility Name: Big Sinks 27-1H

Location: UL-E Sec. 3, T25S, R31E

Project Reference:

EPI Sampler Name: David Robinson

Bill To

BOPCO, L.P.
 Attn: Brad Blevins
 522 W. Mernod, Suite 704
 Carlsbad, NM 88220

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING		DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:		ICE/COOL	OTHER										
21	SP5 (3)	G	1			X						24-Oct-14	12:13			X						
22																						
23																						
24																						
25																						
26																						
27																						
28																						
29																						
30																						

Relinquished by: David Robinson

Date: 10-24-14
 Time: 4:00 PM
 Received By: [Signature]

Date: 10-28-14
 Time: 9:30 AM
 Received By: [Signature]

Sample Cool & Intact: Yes

Checked By: [Signature]

Delivered by: [Signature]

E-mail results to: ddominguezepi@gmail.com & bblevins@basspet.com
 NOTES: & tasavotie@basspet.com

#54

November 03, 2014

Daniel Dominguez
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

RE: BIG SINKS 27-1H

Enclosed are the results of analyses for samples received by the laboratory on 10/29/14 15:35.

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.

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:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

Received:	10/29/2014	Sampling Date:	10/29/2014
Reported:	11/03/2014	Sampling Type:	Soil
Project Name:	BIG SINKS 27-1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-E SEC. 3, T25S, R31E		

Sample ID: SP 1 (5') (H403335-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/30/2014	ND	416	104	400	0.00	

Sample ID: SP 1 (6') (H403335-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2014	ND	416	104	400	0.00	

Sample ID: SP 2 (5') (H403335-03)

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	10/30/2014	ND	416	104	400	0.00	

Sample ID: SP 2 (6') (H403335-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/30/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

Received:	10/29/2014	Sampling Date:	10/29/2014
Reported:	11/03/2014	Sampling Type:	Soil
Project Name:	BIG SINKS 27-1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-E SEC. 3, T25S, R31E		

Sample ID: SP 4 (4') (H403335-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1480	16.0	10/30/2014	ND	416	104	400	0.00	

Sample ID: SP 4 (5') (H403335-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	10/30/2014	ND	416	104	400	0.00	

Sample ID: SP 4 (6') (H403335-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/30/2014	ND	416	104	400	0.00	

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



Celey D. Keene, Lab Director/Quality Manager

ATTACHMENT III
Copy of NMOCD Email Notice of No Further Action
Required



BIG SINKS 27-1H

Blevins, Bradley <BBlevins@basspet.com>
To: "Daniel Dominguez (ddominguezepi@gmail.com)" <ddominguezepi@gmail.com>

Mon, Dec 15, 2014 at 8:30 AM

From: Patterson, Heather, EMNRD [mailto:Heather.Patterson@state.nm.us]
Sent: Tuesday, November 18, 2014 10:52 AM
To: Blevins, Bradley
Cc: Bratcher, Mike, EMNRD
Subject: RE: BIG SINKS 27-1H

Bradley,

Your request for no further action is approved. This site looks good to close.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson
Environmental Specialist
NMOCD District II
(575)748-1283 ext.101

From: Blevins, Bradley [mailto:BBlevins@BassPet.Com]
Sent: Wednesday, November 12, 2014 8:04 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: Blevins, Bradley
Subject: FW: BIG SINKS 27-1H

Mike/ Heather

If you recall during our last meeting we discussed collecting further samples on the PLU Big Sinks 27-1H Frac Line release. It was discussed if the chloride numbers did not jump to an extremely high number we would be able to close with no further action required. Please find the attached lab data for the samples collected. At this time I would like to request no further action required at this site. If you have any questions or concerns please let me know. Thanks,

Brad Blevins
Assistant Remediation Foreman
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, NM 88220
Office-575-887-7329

ATTACHMENT IV
Copy of Initial NMOCD Form C-141's
Final C-141's

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

SEP 22 2014

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

RECEIVED

Release Notification and Corrective Action

NAB1421612 8081 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-CVX-JV #027H. The spill is 1470 ft. S.W. of the well pad	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-42111
------------------------	------------------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section 3	Township 25S	Range 31E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
-------------	--------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude N 32.162773 Longitude W 103.770594

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 15 bbls.	Volume Recovered: 5 bbls
Source of Release: 10" lay flat frac hose	Date and Hour of Occurrence: 9/15/14 at approximately 10:38 p.m.	Date and Hour of Discovery: 9/15/14 at approximately 10:38 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD in person to Heather while in the Artesia office	
By Whom? Tony Savoie	Date and Hour 9/16/14 at approximately 12:00 p.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.*
A pickup truck operated by Baker Hughes backed over the frac hose creating a tear. The line was isolated and a section of hose was replaced.

Describe Area Affected and Cleanup Action Taken.*
The spill impacted approximately 1800 sq.ft. of caliche lease road and bar-ditch. A vacuum truck on-site recovered the free standing fluid. The remainder of the spill soaked into the road. The spill will be cleaned up in accordance to the NMOCD and BLM remediation guidelines.

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>	OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Waste Management and Remediation Specialist	Approval Date: <i>9/23/14</i>	Expiration Date: <i>NA</i>
E-mail Address: <i>tasavoie@basspet.com</i>	Conditions of Approval:	Attached <input type="checkbox"/>

Date: *9/22/14* Phone: 432-556-8730

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: *10/23/14*

2RP-2508

* Attach Additional Sheets If Necessary

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

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company: BOPCO, L.P.	Contact: Bradley Blevins
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU-CVX-JV #027H. The spill is 1,470 ft. S.W. of the well pad	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-42111
------------------------	------------------------	----------------------

LOCATION OF RELEASE

Unit Letter E	Section 3	Township 25S	Range 31E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
------------------	--------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude: N 32.160773° Longitude: W 103.770594°

NATURE OF RELEASE

Type of Release: produced water	Volume of Release: 15 bbls	Volume Recovered: 5 bbls
Source of Release: 10" lay flat frac hose	Date and Hour of Occurrence: 9/15/14 @ approx. 10:38 pm	Date and Hour of Discovery: 9/15/14 @ approx. 10:38 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD in person to Heather while in Artesis office	
By Whom? Tony Savoie	Date and Hour: 9/16/14 @ approx. 12:00 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Describe Cause of Problem and Remedial Action Taken.*
A pickup truck operated by Baker Hughes backed over the frac hose creating a tear. The line was isolated and a section of hose was replaced.

Describe Area Affected and Cleanup Action Taken.*
The spill impacted approximately 1,800 sq. ft. of caliche lease road and bar-ditch. A vacuum truck on-site recovered the free standing fluid. The remainder of the spill soaked into the road. Samples were collected from the site and based on laboratory analytical results a notice of 'no further action required' was issued by the NMOCD for this site.

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.

OIL CONSERVATION DIVISION

Signature: 

Printed Name: Bradley Blevins

Approved by Environmental Specialist:

Title: Assistant Remediation Foreman

Approval Date:

Expiration Date:

E-mail Address: bblevins@basspet.com

Conditions of Approval:

Attached

Date: 12-15-14 Phone: 432-214-3704

* Attach Additional Sheets If Necessary