

# ***ENVIRONMENTAL PLUS, INC.***

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## **CLOSURE REPORT**

**BOPCO, L.P.**  
**PLU #315H Flowline**  
**Eddy County, New Mexico**  
**Unit Letter "E", Section 13, Township 24 South, Range 30 East**  
**Latitude 32.20739 North, Longitude 103.82718 West**  
**NMOCD Reference #2RP-3207**

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

**October 2015**

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Daniel Dominguez  
Project Manager



5 October 2015

Ms. Heather Patterson  
Environmental Specialist  
NMOCD  
811 S. First St.  
Artesia, New Mexico 88210

RE: Final Closure Report  
Bopco – PLU #315H Flowline  
UL-E, Section 13, Township 24 South, Range 30 East  
Eddy County, New Mexico  
NMOCD Reference # 2RP 3207

Ms. Patterson:

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

**Background Information:**

The PLU 315H flowline failed, an area night pumper discovered the release. Bopco EHS was notified Friday morning and was able to respond and collect information. It was discovered that 52 barrels of produced water and 10 barrels of oil was released to the ground surface. No fluid was recovered, the majority of the release remained within the caliche lease road.

**Remediation Activities:**

EPI personnel mobilized on the site on August 18, 2015 to collect soil samples to determine the vertical extent of contamination. A total of seventeen (17) soil samples were collected from five (5) sample locations; SP1 – SP5. Six (6) of the samples were sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate, with the exception of SP1 at five and half (5.5) feet bgs, the release area is void of Benzene, BTEX, TPH and Chloride concentrations in excess of NMOCD Recommended Remedial Action Levels (RRALs) of 10 mg/Kg, 50 mg/Kg, 5,000 mg/Kg, and 1,000 mg/Kg, respectively (reference *Figure 3* and *Table 2*).

On August 25, 2015 two (2) additional, deeper, soil samples were collected from SP1 to determine depth of contamination in this area. One (1) of these samples, SP1 at nine (9) feet bgs, was sent to Cardinal Labs in Hobbs, New Mexico for testing. Laboratory analytical results indicate the area at nine (9) feet bgs is void of Benzene, BTEX, TPH and Chloride concentrations in excess of NMOCD RRALs of 10 mg/Kg, 50 mg/Kg, 5,000 mg/Kg, and 1,000 mg/Kg, respectively (reference *Figure 3* and *Table 2*).

The release area was excavated to a depth of two (2) feet bgs in the area of SP1; SP2 – SP5 were scraped up. Approximately 26.81 tons of contaminated soil were excavated and hauled to a state approved facility for disposal.

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**Closure Activities:**

On September 25, 2015 a 20 mil thick poly-ethylene liner was installed in the area of SP1 (reference *Figure 4*). After installation of liner the road and excavation were backfilled with approximately 26.81 tons of clean soil. All soil was free of rocks, clumps or deleterious material. The entire disturbed area was then contoured to blend with existing lease road area and protected against wind/water erosion.

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](mailto:ddominguezepi@gmail.com) or Mr. Brad Blevins at (432) 214-3704 or via e-mail at [bblevins@basspet.com](mailto: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,

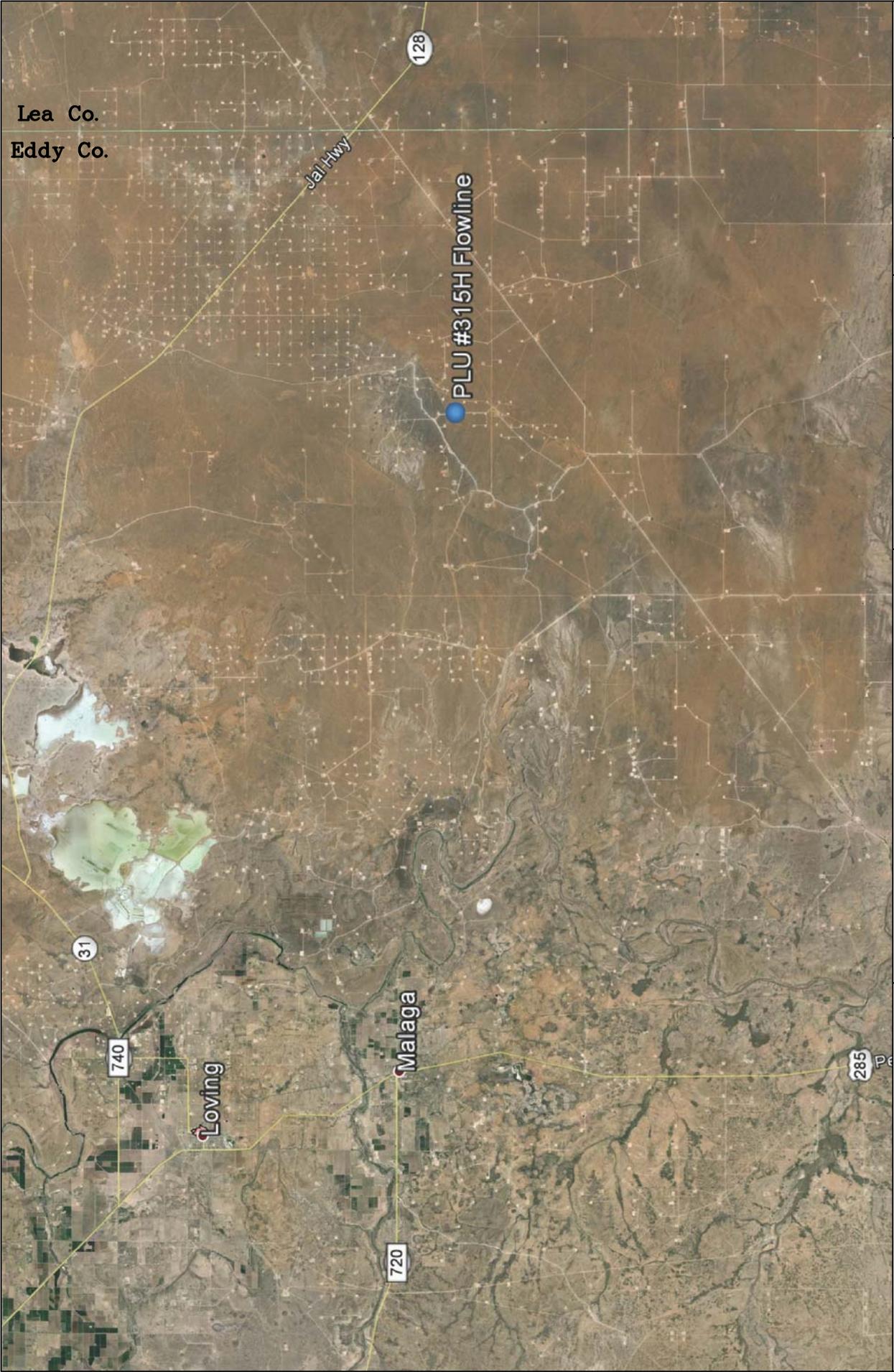
ENVIRONMENTAL PLUS, INC.

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  
Figure 4 – Liner 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 Initial NMOCD Form C-141, Final C-141

## **FIGURES**



Lea Co.  
Eddy Co.

Jal Hwy

128

PLU #315H Flowline

31

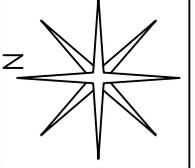
740

Loving

Malaga

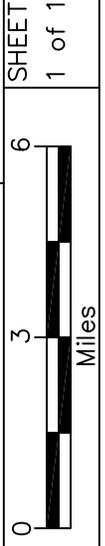
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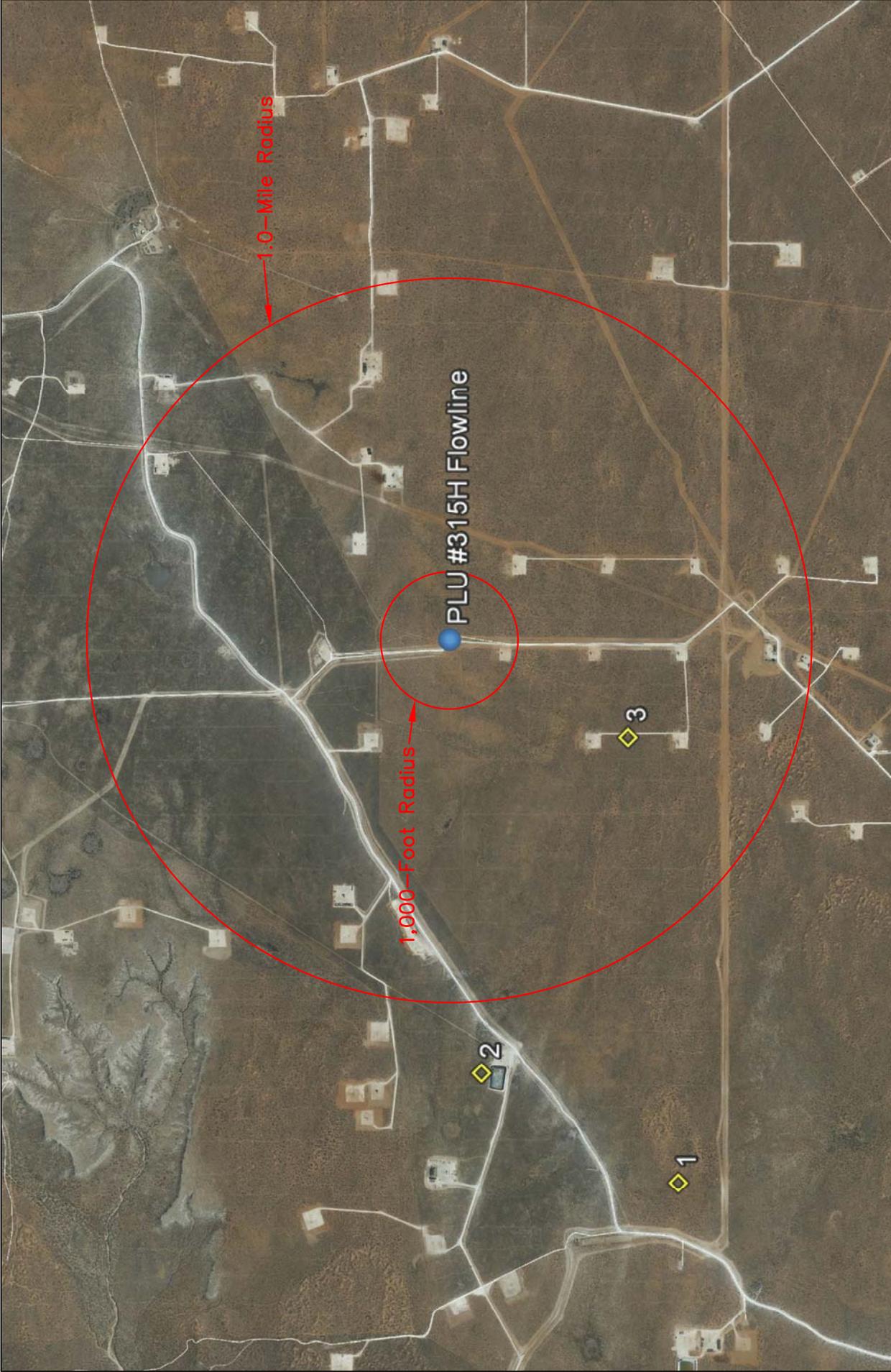
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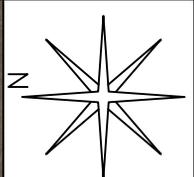
DWG By: D Dominguez  
October 2015

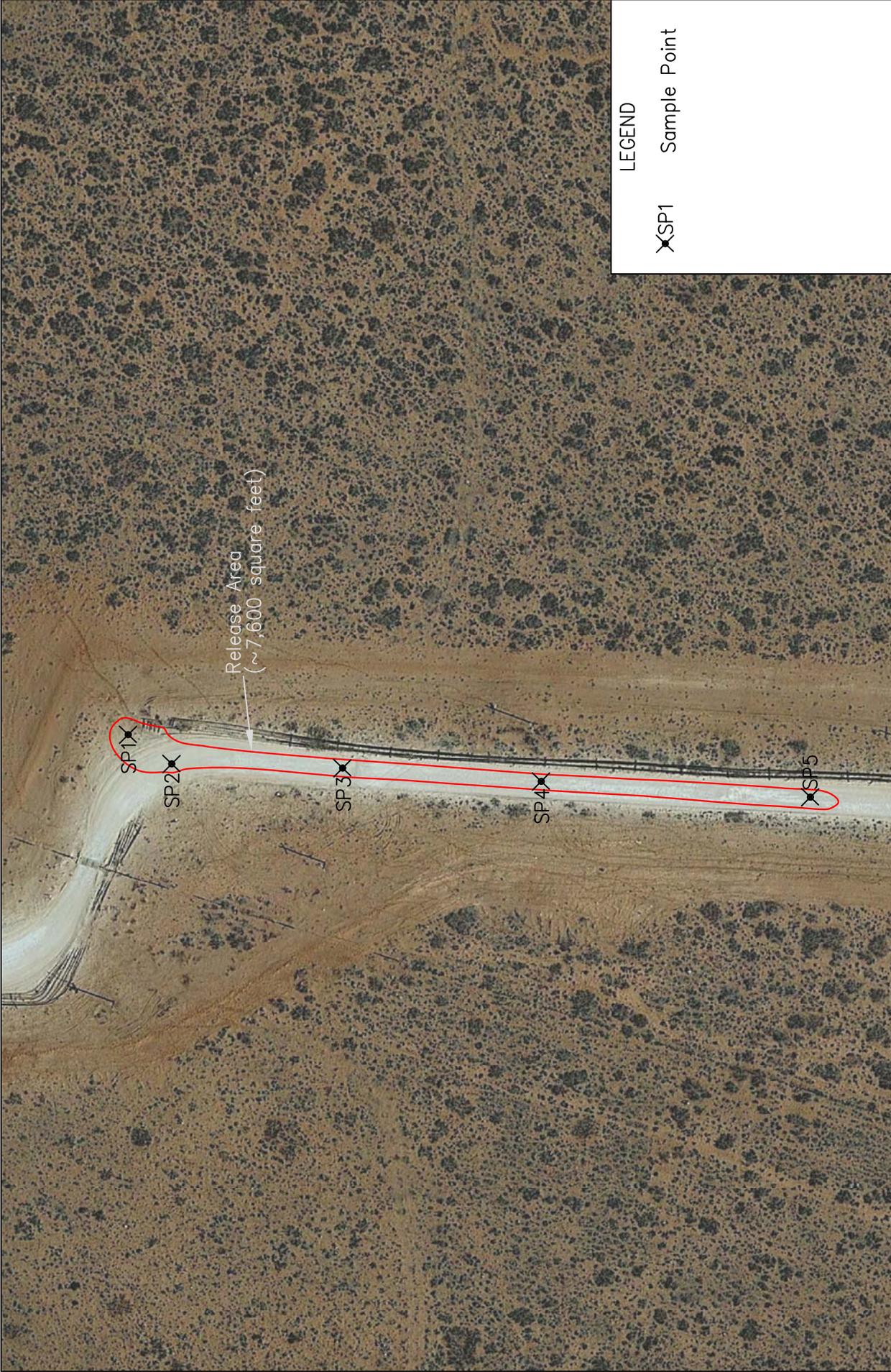


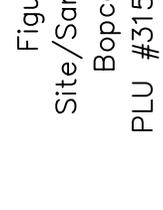
Eddy County, New Mexico  
SW 1/4 of NW 1/4, Sec. 13, T24S, R30E  
N 32° 12' 26.60" W 103° 49' 37.85"  
Elevation: 3,476 feet amsl

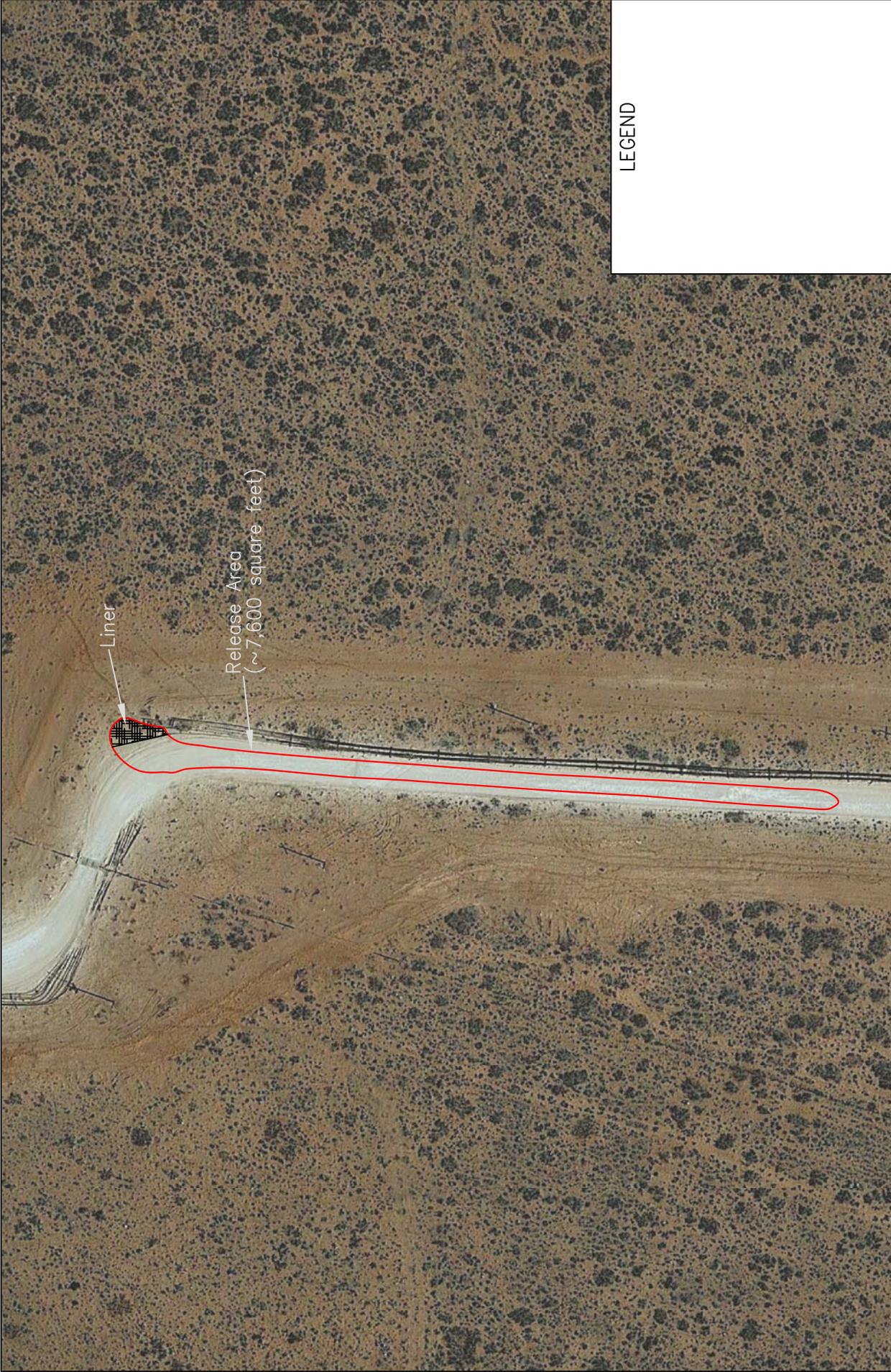
Figure 1  
Area Map  
Bopco, L.P.  
PLU #315H Flowline



<p>Figure 2 Site Location Map Bopco, L.P. PLU #315H Flowline</p>	<p>Eddy County, New Mexico SW 1/4 of NW 1/4, Sec. 13, T24S, R30E N 32° 12' 26.60" W 103° 49' 37.85" Elevation: 3,476 feet amsl</p>	<p>DWG By: D Dominguez October 2015</p>	<p>REVISED:</p> <p>0 2,000 4,000 SHEET 1 of 1</p> <p>Feet</p>	
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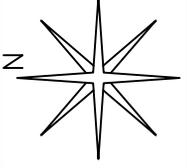
<p>Figure 3 Site/Sample Map Bopco, L.P. PLU #315H Flowline</p>	<p>Eddy County, New Mexico SW 1/4 of NW 1/4, Sec. 13, T24S, R30E N 32° 12' 26.60" W 103° 49' 37.85" Elevation: 3,476 feet amsl</p>	<p>DWG By: D Dominguez October 2015</p> <p>0 100 200 Feet</p>	<p>REVISED: SHEET 1 of 1</p> 
<p>LEGEND</p> <p>XSP1 Sample Point</p>			



Liner

Release Area  
(~7,600 square feet)

LEGEND



REVISED:

200  
0  
Feet

100

0

SHEET

1 of 1

DWG By: D Dominguez  
October 2015

Eddy County, New Mexico  
SW 1/4 of NW 1/4, Sec. 13, T24S, R30E  
N 32° 12' 26.60" W 103° 49' 37.85"  
Elevation: 3,476 feet amsl

Figure 4  
Liner Map  
Bopco, L.P.  
PLU #315H Flowline

## **TABLES**

**TABLE 1**  
**Well Data**

**Bopco, L.P. - PLU #315H Flowline**

Ref #	Well Number	Use	Diversion <sup>A</sup>	Owner	q64	q16	q4	Sec	Twsp	Rng	Easting	Northing	Date Measured	Surface Elevation <sup>B</sup>	Depth to Water (ft bgs)
1	C 02110	STK	3	CLARENCE W. MCDONALD		4	3	23	24S	30E	608036	3562950	31-Dec-67	3,415	400
2	C 02780	MON	0	U.S. DEPT. OF ENERGY - WIPP	2	3	2	23	24S	30E	608535	3563857	31-Dec-79	3,443	--
3	C 03702	MON	0	BOPCO, LP	4	1	4	24	24S	30E	610092	3563204	11-Dec-13	3,443	--

\* = Data obtained from the New Mexico Office of the State Engineer Website ([http://iwaters.ose.state.nm.us:7001/iWATERS/wr\\_RegisServlet1](http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1)) and USGS Database

<sup>A</sup> = In acre feet per annum

-- = Data not provided on the NM iwaters website

<sup>B</sup> = Elevation interpolated from USGS topographical map based on referenced location.

STK = 72-12-1 Livestock watering

MON = Monitoring Well

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 #315H Flowline

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	Excavated	18-Aug-15	1,480	>4,000	--	--	--	--	--	--	--	--	--	--	--
	1	Excavated	18-Aug-15	22.2	>4,000	--	--	--	--	--	--	--	--	--	--	--
	2	Excavated	18-Aug-15	13.2	>4,000	--	--	--	--	--	--	--	--	--	--	--
	3	In Situ	18-Aug-15	5.9	>4,000	--	--	--	--	--	--	--	--	--	--	--
	4	In Situ	18-Aug-15	6.2	>4,000	--	--	--	--	--	--	--	--	--	--	--
	5	In Situ	18-Aug-15	6.1	>4,000	--	--	--	--	--	--	--	--	--	--	--
	5.5	In Situ	18-Aug-15	7.4	1,520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<30.0	<b>2,520</b>
	7	In Situ	25-Aug-15	3.4	400	--	--	--	--	--	--	--	--	--	--	--
	9	In Situ	25-Aug-15	3.3	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	10.1	160
SP2	Surface	Excavated	18-Aug-15	21.6	>4,000	--	--	--	--	--	--	--	--	--	--	--
	1	In Situ	18-Aug-15	4.3	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<30.0	240
SP3	Surface	Excavated	18-Aug-15	56.8	>4,000	--	--	--	--	--	--	--	--	--	--	--
	1	In Situ	18-Aug-15	5.9	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<30.0	48
SP4	Surface	Excavated	18-Aug-15	60	>4,000	--	--	--	--	--	--	--	--	--	--	--
	1	In Situ	18-Aug-15	10.6	400	--	--	--	--	--	--	--	--	--	--	--
	2	In Situ	18-Aug-15	12.4	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<30.0	<16.0
SP5	Surface	Excavated	18-Aug-15	40.6	>4,000	--	--	--	--	--	--	--	--	--	--	--
	1	In Situ	18-Aug-15	29.5	240	--	--	--	--	--	--	--	--	--	--	--
	2	In Situ	18-Aug-15	8.1	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<30.0	160
NMOCD Recommended Remedial Action Levels				100		10			50					5,000	1,000	

-- = Not Analyzed

**Bold** values are in excess of NMOCD Recommended Remedial Action Levels

Shaded values indicates soil has been excavated

## **ATTACHMENTS**

**ATTACHMENT I**  
**Photographs**



Photograph #1 – Looking across release area



Photograph #2 – Looking across release area



Photograph #3 – Looking across release area



Photograph #4 – Looking across release area



Photograph #5 – Excavated area



Photograph #6 – Excavated area



Photograph #7 – Excavated area



Photograph #8 – Liner installed



Photograph #9 – Backfilled area



Photograph #10 – Backfilled area

**ATTACHMENT II**  
**Laboratory Analytical Results**



August 26, 2015

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: PLU #315 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/20/15 11:55.

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".

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:	08/20/2015	Sampling Date:	08/18/2015
Reported:	08/26/2015	Sampling Type:	Soil
Project Name:	PLU #315 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	UL-A SEC. 24, T24S, R30E		

**Sample ID: SP1 ( 5.5' ) (H502195-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2015	ND	2.02	101	2.00	3.37	
Toluene*	<0.050	0.050	08/24/2015	ND	1.89	94.7	2.00	4.66	
Ethylbenzene*	<0.050	0.050	08/24/2015	ND	1.98	98.8	2.00	6.28	
Total Xylenes*	<0.150	0.150	08/24/2015	ND	5.75	95.8	6.00	3.68	
Total BTEX	<0.300	0.300	08/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	08/21/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/21/2015	ND	187	93.5	200	2.00	
DRO >C10-C28	<10.0	10.0	08/21/2015	ND	200	99.9	200	2.67	
EXT DRO >C28-C35	<10.0	10.0	08/21/2015	ND					

Surrogate: 1-Chlorooctane 81.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 69.4 % 52.1-176

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:	08/20/2015	Sampling Date:	08/18/2015
Reported:	08/26/2015	Sampling Type:	Soil
Project Name:	PLU #315 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	UL-A SEC. 24, T24S, R30E		

**Sample ID: SP2 (1') (H502195-02)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2015	ND	2.02	101	2.00	3.37		
Toluene*	<0.050	0.050	08/24/2015	ND	1.89	94.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	08/24/2015	ND	1.98	98.8	2.00	6.28		
Total Xylenes*	<0.150	0.150	08/24/2015	ND	5.75	95.8	6.00	3.68		
Total BTEX	<0.300	0.300	08/24/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

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>240</b>	16.0	08/21/2015	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/21/2015	ND	187	93.5	200	2.00		
DRO >C10-C28	<10.0	10.0	08/21/2015	ND	200	99.9	200	2.67		
EXT DRO >C28-C35	<10.0	10.0	08/21/2015	ND						

Surrogate: 1-Chlorooctane 72.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.0 % 52.1-176

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:	08/20/2015	Sampling Date:	08/18/2015
Reported:	08/26/2015	Sampling Type:	Soil
Project Name:	PLU #315 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	UL-A SEC. 24, T24S, R30E		

**Sample ID: SP3 ( 1') (H502195-03)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2015	ND	2.02	101	2.00	3.37	
Toluene*	<0.050	0.050	08/24/2015	ND	1.89	94.7	2.00	4.66	
Ethylbenzene*	<0.050	0.050	08/24/2015	ND	1.98	98.8	2.00	6.28	
Total Xylenes*	<0.150	0.150	08/24/2015	ND	5.75	95.8	6.00	3.68	
Total BTEX	<0.300	0.300	08/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

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>48.0</b>	16.0	08/21/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/21/2015	ND	187	93.5	200	2.00	
DRO >C10-C28	<10.0	10.0	08/21/2015	ND	200	99.9	200	2.67	
EXT DRO >C28-C35	<10.0	10.0	08/21/2015	ND					

Surrogate: 1-Chlorooctane 76.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 78.1 % 52.1-176

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:	08/20/2015	Sampling Date:	08/18/2015
Reported:	08/26/2015	Sampling Type:	Soil
Project Name:	PLU #315 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	UL-A SEC. 24, T24S, R30E		

**Sample ID: SP4 (2') (H502195-04)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2015	ND	2.02	101	2.00	3.37		
Toluene*	<0.050	0.050	08/24/2015	ND	1.89	94.7	2.00	4.66		
Ethylbenzene*	<0.050	0.050	08/24/2015	ND	1.98	98.8	2.00	6.28		
Total Xylenes*	<0.150	0.150	08/24/2015	ND	5.75	95.8	6.00	3.68		
Total BTEX	<0.300	0.300	08/24/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

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	08/21/2015	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/21/2015	ND	187	93.5	200	2.00		
DRO >C10-C28	<10.0	10.0	08/21/2015	ND	200	99.9	200	2.67		
EXT DRO >C28-C35	<10.0	10.0	08/21/2015	ND						

Surrogate: 1-Chlorooctane 71.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 78.0 % 52.1-176

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:	08/20/2015	Sampling Date:	08/18/2015
Reported:	08/26/2015	Sampling Type:	Soil
Project Name:	PLU #315 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	UL-A SEC. 24, T24S, R30E		

**Sample ID: SP5 (2') (H502195-05)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2015	ND	2.02	101	2.00	3.37	
Toluene*	<0.050	0.050	08/24/2015	ND	1.89	94.7	2.00	4.66	
Ethylbenzene*	<0.050	0.050	08/24/2015	ND	1.98	98.8	2.00	6.28	
Total Xylenes*	<0.150	0.150	08/24/2015	ND	5.75	95.8	6.00	3.68	
Total BTEX	<0.300	0.300	08/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/21/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/21/2015	ND	187	93.5	200	2.00	
DRO >C10-C28	<10.0	10.0	08/21/2015	ND	200	99.9	200	2.67	
EXT DRO >C28-C35	<10.0	10.0	08/21/2015	ND					

Surrogate: 1-Chlorooctane 72.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 81.5 % 52.1-176

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

# 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: PLU #315 Flowline  
 Location: UL-A Sec. 24, T24S, R30E  
 AFE#:  
 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 (SO<sub>4</sub><sup>-</sup>)  
 pH  
 TCLP  
 OTHER >>>  
 PAH

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 <sub>4</sub> <sup>-</sup> )	pH	TCLP	OTHER >>>	PAH
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE		ICE/COOL	OTHER										
H502195			1	X		X					X	18-Aug-15	10:23	X	X	X	X						
			2	X		X					X	18-Aug-15	11:01	X	X	X	X						
			3	X		X					X	18-Aug-15	11:46	X	X	X	X						
			4	X		X					X	18-Aug-15	13:17	X	X	X	X						
			5	X		X					X	18-Aug-15	14:07	X	X	X	X						
			6																				
			7																				
			8																				
			9																				
			10																				

Sampler Relinquished by: *David Robinson* Date: 8/19/15 Received By: \_\_\_\_\_ Date: 8/19/15 Time: 6:00 am  
 Relinquished by: \_\_\_\_\_ Date: 8/20/15 Received By: \_\_\_\_\_ Date: 8/20/15 Time: 11:55 am  
 Delivered by: \_\_\_\_\_ Sample Opol & Intact: Yes No Checked By: \_\_\_\_\_

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

56°C #54



September 08, 2015

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

RE: PLU #315 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/01/15 15:20.

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 written in a cursive style with a large, flowing "C" and "K".

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:	09/01/2015	Sampling Date:	08/25/2015
Reported:	09/08/2015	Sampling Type:	Soil
Project Name:	PLU #315 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-A SEC. 24, T24S, R30E		

**Sample ID: SP 1 (9') (H502328-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2015	ND	1.96	98.1	2.00	0.983	
Toluene*	<0.050	0.050	09/04/2015	ND	1.79	89.3	2.00	1.10	
Ethylbenzene*	<0.050	0.050	09/04/2015	ND	1.84	91.8	2.00	2.38	
Total Xylenes*	<0.150	0.150	09/04/2015	ND	5.74	95.7	6.00	0.630	
Total BTEX	<0.300	0.300	09/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 85.6-137

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>160</b>	16.0	09/04/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2015	ND	190	94.9	200	0.159	
<b>DRO &gt;C10-C28</b>	<b>10.1</b>	10.0	09/02/2015	ND	206	103	200	0.564	
EXT DRO >C28-C35	<10.0	10.0	09/02/2015	ND					

Surrogate: 1-Chlorooctane 72.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 68.8 % 52.1-176

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



**ATTACHMENT III**  
**Copy of Initial NMOCD Form C-141**  
**Final C-141**

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**

*NAB1523130328*

**OPERATOR**

Initial Report  Final Report

Name of Company: BOPCO, L.P. <i>2100737</i>		Contact: Bradley Blevins
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Telephone No. 575-887-7329
Facility Name: PLU 315H Flowline		Facility Type: Exploration and Production
Surface Owner: Federal	Mineral Owner:	API No. 3001539166

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	13	24S	30E	1650		710		Eddy

Latitude: 32.20739 Longitude: 103.82718

**NATURE OF RELEASE**

Type of Release: Crude Oil and Produced Water	Volume of Release: 10 oil, 52 barrels PW	Volume Recovered: None
Source of Release: Flowline	Date and Hour of Occurrence: 8-14-15 @ 12:00am	Date and Hour of Discovery: 8-14-15 @ 1:00am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, Heather Patterson, Jim Amos vis Email	
By Whom? Bradley Blevins	Date and Hour: 8-14-15 @ 3:48pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
AUG 17 2015  
**RECEIVED**

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

The PLU 315H flowline failed, an area night pumper discovered the release. Bopco EHS was notified Friday morning and was able to respond and collect information. It was discovered that 52 barrels of produced water and 10 barrels of oil was released to the ground surface. No fluid was recovered, the majority of the release remained within the caliche lease road.

Describe Area Affected and Cleanup Action Taken.\*

The majority of the release remained within the caliche lease road, no fluid was recoverable at the time of discovery.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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>Bradley Blevins</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Bradley Blevins	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Assistant Remediation Foreman	Approval Date:	Expiration Date:
E-mail Address: bblevins@basspet.com	Conditions of Approval:	
Date: <i>8-17-15</i> Phone: 432-214-3704	Attached <input type="checkbox"/>	

**Remediation per O.C.D. Rules & Guidelines**

**SUBMIT REMEDIATION PROPOSAL NO**  
**LATER THAN: *9/21/15***

*22P-3207*

\* 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  
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**

**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 #315H Flowline; 2RP#3207	Facility Type: Exploration and Production
Surface Owner: Federal	Mineral Owner:
API No. 30-015-39166	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	13	24S	30E	1650	North	710	West	Eddy

Latitude: N 32.20739° Longitude: W 103.82718°

**NATURE OF RELEASE**

Type of Release: crude oil and produced water	Volume of Release: 10 oil, 52 bbls PW	Volume Recovered: none
Source of Release: Flowline	Date and Hour of Occurrence: 8/14/15 @ 12 am	Date and Hour of Discovery: 8/14/15 @ 1 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, Heather Patterson, Jim Amos via email	
By Whom? Bradley Blevins	Date and Hour: 8/14/15 @ 3:48 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.* The PLU 315H flowline failed, an area night pumper discovered the release. Bopco EHS was notified Friday morning and was able to respond and collect information. It was discovered that 52 barrels of produced water and 10 barrels of oil was released to the ground surface. No fluid was recovered, the majority of the release remained within the caliche lease road.		
Describe Area Affected and Cleanup Action Taken.* The majority of the release remained within the caliche lease road, no fluid was recoverable at the time of discovery. Samples were collected, and based on laboratory analytical data and NMOCD approval: the lease road was scraped up, contaminated soil excavated and hauled to a state approved disposal facility, a liner placed over area of SP1, and the excavation backfilled with clean soil.		
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: 	Approved by Environmental Specialist:	
Printed Name: Bradley Blevins	Approval Date:	Expiration Date:
Title: Assistant Remediation Foreman	Conditions of Approval:	
E-mail Address: bblevins@basspet.com	Attached <input type="checkbox"/>	
Date: <u>10-7-15</u> Phone: 432-214-3704		

\* Attach Additional Sheets If Necessary