

ENVIRONMENTAL PLUS, INC.

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CLOSURE REPORT

BOPCO, L.P.
PLU #105 Flowline
Eddy County, New Mexico
Unit Letter "B", Section 36, Township 24 South, Range 30 East
Latitude 32.18573 North, Longitude 103.83154 West
NMOCD Reference #2RP-3225

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

Daniel Dominguez
Project Manager



6 October 2015

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

RE: Final Closure Report
Bopco – PLU #105 Flowline
UL-B, Section 26, Township 24 South, Range 30 East
Eddy County, New Mexico
NMOCD Reference # 2RP 3225

Mr. Bratcher:

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

Background Information:

Bopco EHS was notified of a release that occurred on the PLU 105 Flowline due to corrosion. Contract crew installed an emergency repair clamp until the line can be replaced. **Originally reported as the PLU 84 (2RP-3199), once the flowlines were exposed it was determined that the PLU 105 flowline was the line that leaked** A vacuum truck was called to the location and was able to recover 1 barrel of oil.

Remediation Activities:

EPI personnel mobilized on the site on August 19, 2015 to collect soil samples via hand auger to determine the vertical extent of contamination. A total of thirteen (13) soil samples were collected from three (3) sample locations; SP1, SP2, SP3. On August 25, 2015 six (6) additional deeper soil samples were collected via backhoe from the sample locations. All samples were field tested for organic vapors and chloride concentrations. Soil samples were placed in self-sealing polyethylene bags and allowed to equilibrate to ~70° F. Soil samples were tested for organic vapors utilizing a Mini-Rae™ Photoionization Detector (PID) equipped with a 10.6 electron-volt (eV) lamp calibrated for benzene response. Chloride concentrations were determined via use of a LaMotte Chloride Kit (Titration Method). Field testing results indicate elevated Chloride concentrations in SP1 to five (5) bgs, SP2 to three (3) feet bgs, and SP3 to two (2) feet bgs. Field testing results indicate elevated organic vapors in SP1 to two (2) feet bgs, SP2 to one (1) foot bgs, and SP3 to two (2) feet bgs (reference *Figure 3* and *Table 2*).

On September 28 and 29, 2015, the release area was excavated to a depth of approximately two (2) feet bgs in the area of SP1; SP2 and SP3 were excavated to a depth of approximately one (1) foot bgs. Approximately 44 tons of contaminated soil was excavated and hauled to a state approved facility for disposal.

Closure Activities:

With NMOCD approval the excavation was backfilled with approximately 44 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 pasture 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 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,

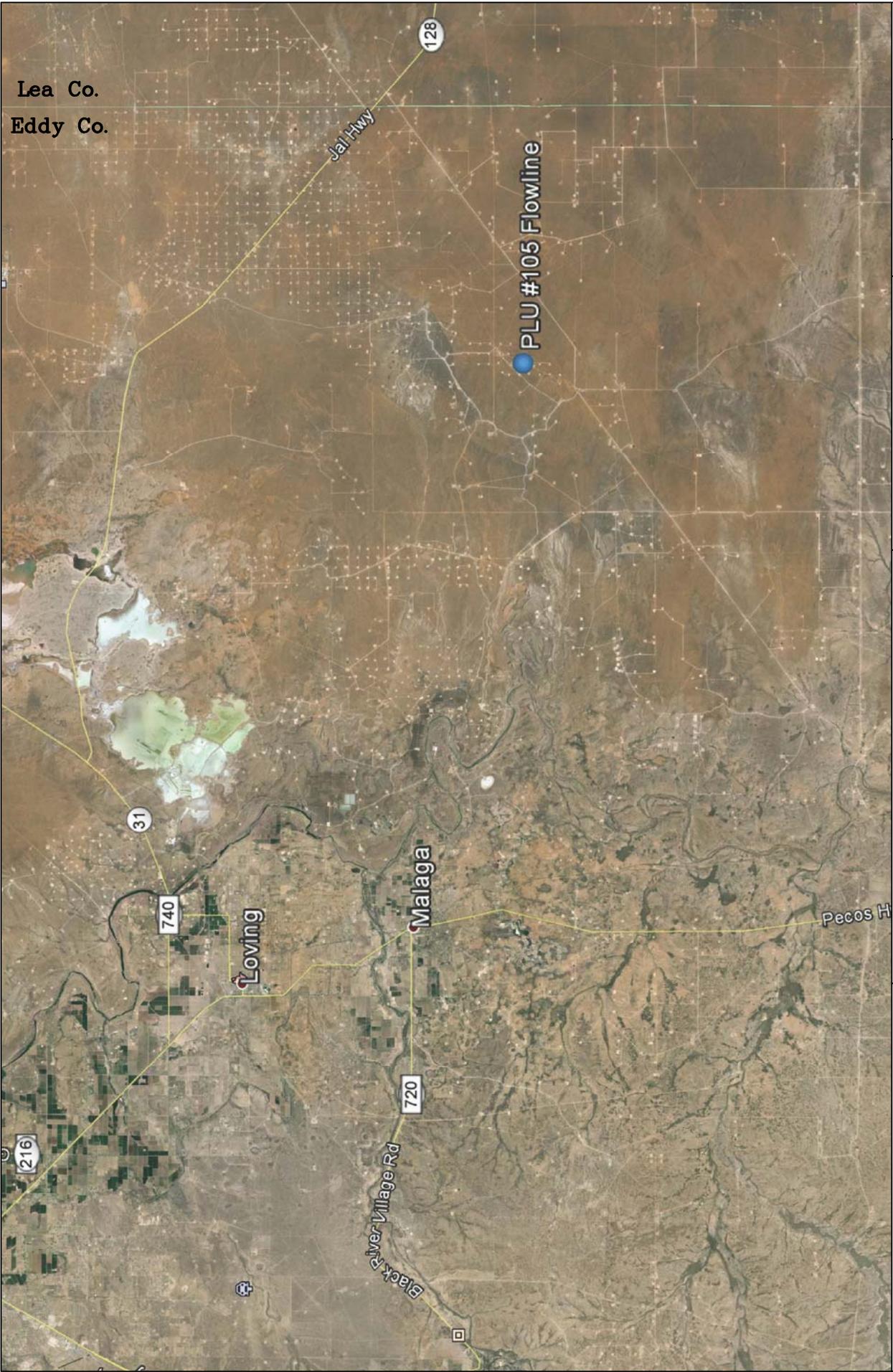
ENVIRONMENTAL PLUS, INC.

Daniel Dominguez
Environmental Consultant

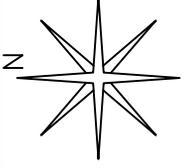
cc: Brad Blevins, EHS Asst. Remediation Foreman – Bopco, L.P.
Tony Savoie, Remediation Foreman – Bopco, L.P. 1(432)556-8730
File

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
Attachment I – Photographs
Attachment II – Field Measurement/Observation Logs
Attachment III – Copy of Initial NMOCD Form C-141, Final C-141

FIGURES



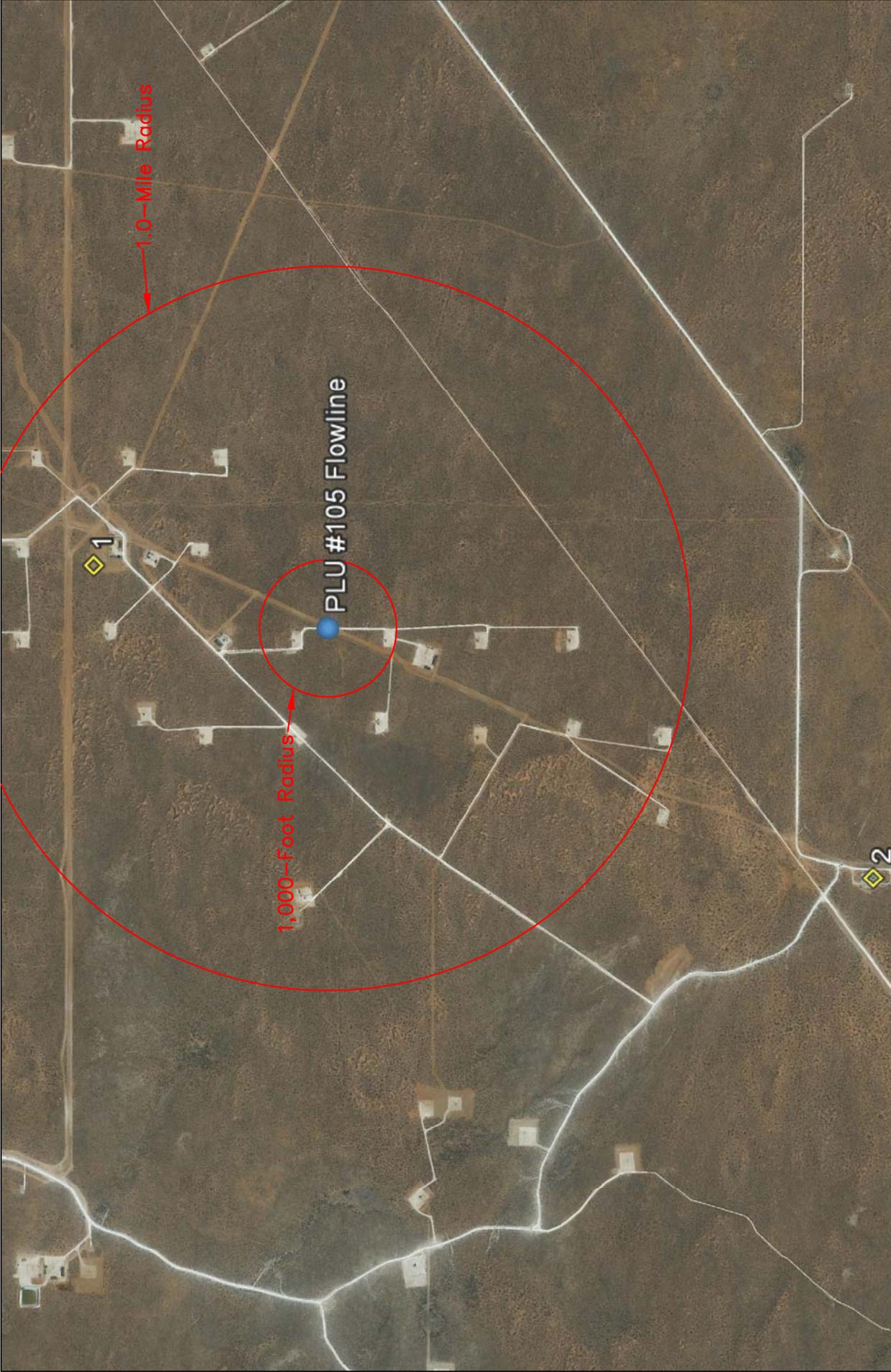
Lea Co.
Eddy Co.



DWG By: D Dominguez October 2015	REVISED:
0 3 6 Miles	SHEET 1 of 1

Eddy County, New Mexico
NW 1/4 of NE 1/4, Sec. 36, T24S, R30E
N 32° 11' 8.63" W 103° 49' 53.54"
Elevation: 3,450 feet amsl

Figure 1
Area Map
Bopco, L.P.
PLU #105 Flowline



<p>Figure 2 Site Location Map Bopco, L.P. PLU #105 Flowline</p>	<p>Eddy County, New Mexico NW 1/4 of NE 1/4, Sec. 36, T24S, R30E N 32° 11' 8.63" W 103° 49' 53.54" Elevation: 3,450 feet amsl</p>	<p>DWG By: D Dominguez October 2015</p> <p>REVISSED:</p> <table border="1"> <tr> <td>0</td> <td>2,000</td> <td>4,000</td> <td>SHEET</td> </tr> <tr> <td colspan="3"></td> <td>1 of 1</td> </tr> </table> <p>Feet</p>	0	2,000	4,000	SHEET				1 of 1	
0	2,000	4,000	SHEET								
			1 of 1								



Release Area
(~700 square feet)

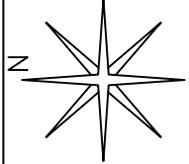
SP3

SP2

SP1

LEGEND

X SP1 Sample Point



DWG By: D Dominguez
October 2015

REVISED:

0 40 80 Feet

SHEET
1 of 1

Eddy County, New Mexico
NW 1/4 of NE 1/4, Sec. 36, T24S, R30E
N 32° 11' 8.63" W 103° 49' 53.54"
Elevation: 3,450 feet amsl

Figure 3
Site/Sample Map
Bopco, L.P.
PLU #105 Flowline

TABLES

TABLE 1

Well Data

Bopco, L.P. - PLU #105 Flowline

Ref #	Well Number	Use	Diversion ^A	Owner	q64	q16	q4	Sec	Twsp	Rng	Easting	Northing	Date Measured	Surface Elevation ^B	Depth to Water (ft bgs)
1	C 03558	EXP	0	BOPCO, LP	1	2	2	25	24S	30E	610412	3562651	01-Aug-12	3,445	0
2	C 03716	EXP	0	BOPCO, LP	4	2	2	2	25S	30E	609069	3559211	03-Mar-14	3,402	425

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1) 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.

EXP = Exploration

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

TABLE 2
Summary of Soil Sample Field Testing
Bopco L.P.
PLU #105 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	19-Aug-15	68.9	>4,000	--	--	--	--	--	--	--	--	--	--	--	
	1	Excavated	19-Aug-15	14.2	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	2	Excavated	19-Aug-15	12.5	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	3	In Situ	19-Aug-15	9.0	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	3.5	In Situ	19-Aug-15	3.0	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	5	In Situ	25-Aug-15	2.5	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	7	In Situ	25-Aug-15	2.4	320	--	--	--	--	--	--	--	--	--	--	--	--
	8	In Situ	25-Aug-15	2.5	320	--	--	--	--	--	--	--	--	--	--	--	--
	9	In Situ	25-Aug-15	1.9	160	--	--	--	--	--	--	--	--	--	--	--	--
SP2	Surface	Excavated	19-Aug-15	39.6	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	1	Excavated	19-Aug-15	15.5	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	2	In Situ	19-Aug-15	7.9	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	3	In Situ	19-Aug-15	5.3	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	5	In Situ	25-Aug-15	6.4	200	--	--	--	--	--	--	--	--	--	--	--	--
SP3	Surface	Excavated	19-Aug-15	290	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	1	Excavated	19-Aug-15	40.5	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	2	In Situ	19-Aug-15	20.0	>4,000	--	--	--	--	--	--	--	--	--	--	--	--
	3	In Situ	19-Aug-15	7.5	480	--	--	--	--	--	--	--	--	--	--	--	--
NMOCD Recommended Remedial Action Levels	4	In Situ	25-Aug-15	7.2	160	--	--	--	--	--	--	--	--	--	--	--	--
				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 – Lease sign



Photograph #2 – Looking across release area



Photograph #3 – Looking across release area



Photograph #4 – Collecting soil samples



Photograph #5 – Excavated area



Photograph #6 – Excavated area



Photograph #7 – Backfilled area



Photograph #8 – Backfilled area

ATTACHMENT II
Field Measurement/Observation Logs

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

NM OIL CONSERVATION

ARTESIA DISTRICT

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

AUG 26 2015

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.
RECEIVED

Release Notification and Corrective Action

NAB1524039752 OPERATOR Initial Report Final Report

Name of Company: BOPCO, L.P. <u>260737</u>	Contact: Bradley Blevins
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU 105 Flowline	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner:	API No. 3001527895
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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
B	36	24S	30E	660		1980		Eddy

Latitude: 32.18573 Longitude: 103.83154

NATURE OF RELEASE

Type of Release: Crude Oil -Produced Water	Volume of Release: 3 barrels oil, 3 barrels PW	Volume Recovered: 1 barrel oil
Source of Release: Flowline	Date and Hour of Occurrence: 8-10-15 @ 11:30am	Date and Hour of Discovery: 8-10-15 @11:49am
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.*

Describe Cause of Problem and Remedial Action Taken.*

BOPCO EHS was notified of a release that occurred on the PLU 105 Flowline due to corrosion. Contract crew installed an emergency repair clamp until the line can be replaced. **Originally reported as the PLU 84 (2RP-3199), once the flowlines were exposed it was determined that the PLU 105 was the line that leaked**

Describe Area Affected and Cleanup Action Taken.*

A vacuum truck was called to the location and was able to recover 1 barrel oil.

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>Bradley Blevins</u>	OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins	Signed By <u>Mike Brannon</u> Approved by Environmental Specialist:	
Title: Assistant Remediation Foreman	Approval Date: <u>8/28/15</u>	Expiration Date: <u>N/A</u>
E-mail Address: bblevins@basspct.com	Conditions of Approval:	
Date: <u>8-26-15</u> Phone: 432-214-3704	Attached <input type="checkbox"/>	

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 9/28/15

2RP-3225

* 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 #105 Flowline; 2RP# 3225	Facility Type: Exploration and Production
Surface Owner: State of New Mexico	Mineral Owner: State of New Mexico
API No. 30-015-27895	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	36	24S	30E	660	North	1980	East	Eddy

Latitude: N 32.179780° Longitude: W 103.832049°

NATURE OF RELEASE

Type of Release: crude oil and produced water	Volume of Release: 3 bbls oil, 3 bbls produced water	Volume Recovered: 1 bbl oil
Source of Release: Flowline	Date and Hour of Occurrence: 8/10/15 @ 11:30 am	Date and Hour of Discovery: 8/10/15 @ 11:49 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: Not Applicable	

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

Describe Cause of Problem and Remedial Action Taken.*

BOPCO EHS was notified of a release that occurred on the PLU 105 Flowline due to corrosion. Contract crew installed an emergency repair clamp until the line can be replaced. **Originally reported as the PLU 84 (2RP-3199), once the flowlines were exposed it was determined that the PLU 105 flowline was the line that leaked**

Describe Area Affected and Cleanup Action Taken.*

A vacuum truck was called to the location and was able to recover 1 barrel of oil. Samples were collected and field tested. Based on field testing data and NMOCD approval the contaminated soil has been excavated and hauled to a state approved disposal facility, 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.

Signature: 	OIL CONSERVATION DIVISION	
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:	
Date: <u>10-7-15</u> Phone: 432-214-3704	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary