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 #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 Flowine 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 <u>ddominguezepi@gmail.com</u> or Mr. Brad Blevins at (432) 214-3704 or via e-mail at <u>bblevins@basspet.com</u>. 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







TABLES

TABLE 1

Well Data

Bopco, L.P. - PLU #105 Flowline

Ref#	Well Number	Use	Diversion ^A	Owner	q64	q16	q4 5	iec Tw	vsp Rn	g Easting	Northing	Date Measured	Surface Elevation ^B	Depth to Water
														(ft bgs)
1	C 03558	EXP	0	BOPCO, LP	1	2	2	25 24	tS 30.	E 610412	3562651	01-Aug-12	3,445	0
2	C 03716	EXP	0	BOPCO, LP	4	2	2	2 25	5S 30.	E 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

-- = Data not provided on the NM iwaters website A = In acre feet per annum

 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.	DI II #105 Elemine
---------	---	------------	--------------------

															-					
Chloride (mg/Kg)	-	:		:	-				-		:		1	-	:		:			1,000
Total TPH (mg/Kg)		-		-							-		-	-	-		-			5,000
EXT DRO C28-C35 (mg/Kg)	-	-	1	1	-	-	1	1			1	-	-	-	-	1	1	1	-	
DRO C10-C28 (mg/Kg)		-		1							-		-	-	1		1			
GRO C6-C10 (mg/Kg)	-	1		:	-		-		-		-		1	1	:		:			
Total BTEX (mg/Kg)		-		-					-				-	-	:		-			50
Total Xylenes (mg/Kg)	-	-	1	1	1	1	1	1	-	-	1	1	-	1	:	1	1	1	-	
Ethylbenzene (mg/Kg)	I	-	ł	I	1	I	ł	ł	-	-	ł	I	-	-	-	ł	I	ł	I	
Toluene (mg/Kg)	-	1		1	-				-		-		-	1	1		1			
Benzene (mg/Kg)		-		-					-				-	-	:		-			10
Field Chloride (mg/Kg)	>4,000	>4,000	>4,000	>4,000	>4,000	>4,000	320	320	160	>4,000	>4,000	>4,000	>4,000	200	>4,000	>4,000	>4,000	480	160	
PID Reading (ppm)	68.9	14.2	12.5	9.0	3.0	2.5	2.4	2.5	1.9	39.6	15.5	7.9	5.3	6.4	290	40.5	20.0	7.5	7.2	100
Sample Date	19-Aug-15	19-Aug-15	19-Aug-15	19-Aug-15	19-Aug-15	25-Aug-15	25-Aug-15	25-Aug-15	25-Aug-15	19-Aug-15	19-Aug-15	19-Aug-15	19-Aug-15	25-Aug-15	19-Aug-15	19-Aug-15	19-Aug-15	19-Aug-15	25-Aug-15	dial Action
Soil Status	Excavated	Excavated	Excavated	In Situ	Excavated	Excavated	In Situ	In Situ	In Situ	Excavated	Excavated	In Situ	In Situ	In Situ	ended Reme evels					
Depth (feet)	Surface	1	2	3	3.5	5	7	8	6	Surface	1	2	3	5	Surface	1	2	3	4	Recomm L
Lab Sample ID					SP1							SP2					SP3			NMOCD

- = Not Analyzed -- = Not Analyzed **Bold** values are in excess of NMOCD Recommended Remedial Action Levels Shaded values indicates soil has been excavated

Page 1 of 1

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

ţ	UMBER:		-17-15	SOIL DESCRIPTION		Z	Nor S	1000 - 10 1 - 10 -	c ile o	Ce trebe Mark	Company .	So el lotas	Sol Car	Clan Calib. R.u.	Col mar lack	Sared	Sand Le D	No. C. Make V. 11	Ary to the Koll						WEATHER	Time Temp. Misc		
ON LOG	PROJECT N	DATE.	SIS		mg/Kg	30 => 41000	20 = > 41000	0017 - 40	0 = 2 = 0	20 = 2000	20 => 41000	20 => (1040	20 = > 4000	20 = > L/610 U	00 =) (ja 00	20 = \ 4/010	20 = \Lugu	20 = 4/80	20 = 20	20 ⊭	20 =	20 =	20 =	20 ⊭	5	Span Gas		
ENT/OBSERVAT	Almit.		CHLORIDE ANALY	Titration	Tube	40 ml H20 200 v	40 ml H2O 200 x	40 ml H20 201 v	40 ml H2O \ Levo	40 ml H2O	40 ml H2O	40 ml H2O 0 9 eve x	40 ml H2O	40 ml H2O / 200 x	40 ml H2O \ 700 x	40 ml H2O	40 mJ H2O) 200 ×	40 ml H20 24/ x	40 ml H2O	40 mJ H2O x	40 ml H2O	40 ml H2O x	40 mJ H2O	40 ml H2O		Lr.		
LD MEASUREMI	JECT NAME:	Rehigion		(Wdd		2 gms of soil	2 gms of soil	2 ems of soil	2 ems of soil	2 gms of soil	2 gms of soil	2 gms of scil	2 gms of soil	2 gms of soil	2 gms of soil	2 gms of soil	2 gms of soil	2 gms of soil	2 gms of soil	2 gms of soil	2 gms of soil	2 gms of soil	2 gms of soil	2 gms of soil		Fresh A		
H	PRO.	ECHNICIAN:		PID READING (P		68.9	1112	12.2	9.0	3. 0	39.6	15.5	5 2	5,3	290	6-011	20.0	7.5							RATION	Time		
	1: 1:00	FIELD T		PID ANALYSIS TIME	9754 10	8:13	8:16	8:17	81:8	04:8	9:15	9116	6:17	7:18	10:00	10:01	10:02	10.03							PID CALIB	Span Gas		
al Plus, Inc. (1558 mue O 1 88231	601 (fax) COMPAN			COLLECTION TIME		8:00	8201	8:02	8:03	8:35	7:00	5:01	7:02	60:10	9:45	9:46	61:6	9:44								Fresh Air		
Environmenta P.O. Box 2100 Ave Eunice, NM	(575) 3 <u>94</u> -2(ER:	SAMPLE	DEPTH (FT)		Surt	16-	315	34	5 12H	Surt	115	21	4º	Surt	1 15-	3h	38									 	
	AR	OJECT MANAG		SAMPLE ID		105			¢	Ketus-	Tols .			18672601	503		•	Refuse								Time		

	T NUMBER:	8-25-15		SOLL DESCRIPTION	Conder to 1 M . 11	1 MOUNT	12 21	2		Caliela dock		Califice last												WEATHER	Time Temp. Misc		
TION LOG	PROJEC	DATE:	SISX	mg/Kg	x 20 =>1/000	x = 20 = 72	x 20 = 720	x = 20 = 160	x 20 =	x 20 = 20 0	x 20 =	× 20 = 160	x 20 =	x 20 =	x 20 =	x 20 =	x 20 ==	x 20 =	x 20 m	x 20 =	x 20 =	x 20 =	x 20 ⊭		Span Gas		
ENT/OBSERVA	5 Alachan	1 1 - 1 - 1	CHLORIDE ANAI	Titration Tube	40 ml H2O 200	40 ml H2O /6	40 ml H2O /6	40 ml H2O	40 ml H2O	40 ml H2O /O	40 ml H2O	40 mJ H2O	40 ml H2O	40 ml H2O	40 mJ H2O	40 ml H2O	40 ml H2O	40 ml H2O	40 ml H2O		Vir	 	 				
D MEASUREM	ECTNAME: 10	Robinson		(W.	2 gms of soil	2 gms of soil	2 gms of soil	2 gins of soil	2 gms of scil	2 gms of soil	-	Freah /	 														
FEL	LORG	CHNICIAN: 0		LI SWITTER AT L	2.5	2. 4)	2.5	1.9		6,41	đ	7.2												ATION	Time		
	orco		TWIT SIZY I ANA (IId		50101	10:26	10:27	10:11 2		11:05	11:200	0.11												PID CALIBR	Span Gas		
1 Plus, Inc. 1558 nue O 1 88231	-3481 COMPAN		COLLECTION TIME		9:50	10:11	10:12	10130	4	10:50	1	61.11													Fresh Air		
Fruitrinmenta P.O. Box 2100 Avei Eunice, NM	(575) 394 (575) 394-26	GER:	SAMPLE	(14) H [430	54	-42	8/5	Al		4 54	2 11 1	J 11F		-						-+							 -
	ASIE	UECT MANA	SAMPLEID		185				23	No	(2)	10													Time		

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Energy Minerals and Natural Resources AUG 26 2015

Form C-141 Revised August 8, 2011

RECEIVED accordance with 19.15.29 NMAC.

District 1 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

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

State of New Mexico

			Rele	ease	e Notifie	catio	n and Co	rrective A	ction				
NABI	52403	9752					OPERA	TOR		🛛 Initia	al Report		Final Report
Name of Co	mpany: B	OPCO, L.P.	2	102	737		Contact: Bra	dley Blevins					·····
Address: 52	2 W. Mer	mod, Suite 7	04 Carlst	ad, 1	N.M. 8822	0	Telephone N	lo. 575-887-73	29				
Facility Nar	ne: PLU 1	05 Flowline		·			Facility Typ	e: Exploration a	and Proc	duction			
Surface Ow	ner: Feder				Mineral (Jwner [.]				API No			
ournee e n	norr r çuor				, viniorar c					300152	27895		
						ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Fee	t from the	North	/South Line	Feet from the	East/V	Vest Line	County		
В	36	24S	30E	660)			1980		· •	Eddy		
				J	Latitude: 3	32.1857	3 Longitud	e: 103.83154					
					NAT	TURE	OF RELI	EASE					
Type of Rele	ase: Crude	Oil -Produced	d Water				Volume of	Release: 3 barrel	s oil,	Volume F	Recovered: 1	barrel	oil
0	1	· · ·	·				3 barrels P	W		Data and	U.S.CDI-		
Source of Re	lease: Flow	Inte					8-10-15 @	11:30am	se:	8-10-15 (Flour of Dis @11:49am	covery	
Was Immedi	ate Notice	Given?					If YES, To	Whom?	I	0.10.10	<u></u>	···	
1]Yes 🗌] No	🛛 Not R	equired							
By Whom?		· · · · · · · · · · · · · · · · · · ·				· · · ·	Date and H	lour	••••••				
Was a Water	course Rea	ched?	1 F				If YES, Vo	olume Impacting	the Wate	course.			
		L	J Yes 🗵] No									
If a Watercon	urse was In	pacted, Descr	ibe Fully.'	¢									
Describe Cau	ise of Prob	lem and Reme	dial Actio	n Tak	cen.*								
BOPCO EH:	S was notifi	ed of a release **Originally	e that occu reported a	rred (on the PLU	105 Flo 22.3100	where due to c	orrosion. Contra	ct crew 1 sed it wa	nstalled an	emergency	repair	clamp until
line that leak	ed**	originality	reported a	a uic	1 100 04 (21	u-3177	<i>)</i> , once the no	wintes were expe	Sed it we	15 determin			is was the
Describe Are	a Affected	and Cleanup	Action Tal	cen.*									
A vacuum tr	uck was cal	led to the loca	ation and v	vas at	ole to recove	er I barr	el oil.						
I hereby cert regulations a public health should their or the enviro	ify that the ll operators or the envio operations l nment. In	information g are required t ironment. The have failed to addition, NMC	iven above to report and acceptance adequately OCD accept	e is trand/or ce of inve otance	ue and comp file certain a C-141 rep estigate and e of a C-141	plete to t release r ort by th remedia report o	the best of my notifications and ne NMOCD m te contamination does not relieved	knowledge and a nd perform corre- arked as "Final F on that pose a the re the operator of	understar ctive acti Report" d reat to gr responsi	nd that pur ions for rel loes not rel ound wate ibility for c	suant to NM eases which ieve the ope r, surface was compliance v	IOCD r may er rator of ater, hu with any	ules and ndanger f liability man health y other

Signature: Stalley Blow	OIL CONSERVATION DIVISION Signed By Mile Banance
Title: Assistant Remediation Foreman	Approval Date: 8/28/15 Expiration Date: N/A
E-mail Address: bblevins@basspet.com	Conditions of Approval:
Date: 8-26-15 Phone: 432-214-3704 * Attach Additional Sheets If Necessary	Remediation per O.C.D. Hules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN:2RP-3225

federal, state, or local laws and/or regulations.

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.

			Relea	ase Notifica	ation a	nd Co	rrective Ac	tion		
					OF	PERAT	OR	🗌 Initia	l Report	Final Report
Name of Co	ompany: B	OPCO, L.P.			Co	ntact: Bra	adley Blevins		F	
Address: 52	22 W. Mer	mod, Suite 7	04 Carlst	ad, N.M. 88220) Te	lephone 1	No. 575-887-732	29		
Facility Na	me: PLU #	105 Flowlin	e; 2RP# 3	3225	Fac	cility Typ	e: Exploration a	and Production		
Surface Ow	mer: State	of New Me	xico	Mineral O	wner: Sta	ate of Nev	w Mexico	API N	o. 30-015-	-27895
				LOCAT	ΓΙΟΝ Ο	FREL	EASE			
Unit Letter	Section	Township	Range	Feet from the	North/So	uth Line	Feet from the	East/West Line	T	County
В	36	24S	30E	660	Nor	rth	1980	East		Eddy
		1	La	titude: N 32 17	9780° I.	ngituda	W 102 822040	0	1	
				NATI	IDF OF	DELE	<u>w 103.032043</u>	<u> </u>		
Type of Rele	ase: crude	oil and produc	ed water			Volume of	Release: 3 bbls o	vil 3 Volume	Pagavarade	1 441 - 1
					b	bls produc	ed water	volume	Recovered:	1 001 011
Source of Re	lease: Flow	line			E 8	Date and H /10/15 @	our of Occurrence	e: Date and 8/10/15	Hour of Di	scovery:
Was Immedia	ate Notice (Given?	~		I	f YES, To	Whom?	0/10/15	uy 11.47 dill	
			Yes 📋	No 🛛 Not Re	quired					
By Whom?	D	1 10			D	Date and H	our:			
was a water	course Read	hed?	Vac 🕅	No	If	f YES, Vo	lume Impacting th	ne Watercourse:		
		ليا 	103 23	110	IN	ot Applica	able			
Describe Cau BOPCO EHS the line can b was the line th Describe Area A vacuum tru NMOCD app I hereby certif regulations all public health should their of or the environ federal, state,	se of Proble was notifie e replaced. hat leaked** A Affected a ck was calle roval the co y that the in operators a por the enviro perations ha ment. In ac or local law	em and Remea ed of a release **Originally n * and Cleanup A ed to the locat ntaminated sc nformation giv are required to comment. The twe failed to a Idition, NMO	dial Action that occur reported as action Take ion and wa il has been ven above report and acceptance dequately i CD accept ations.	Taken.* red on the PLU 1(the PLU 84 (2RP en.* as able to recover a excavated and hat is true and comple l/or file certain rele of a C-141 repor nvestigate and rer ance of a C-141 re	25 Flowline 2-3199), one 1 barrel of auled to a s lease notifi- t by the NM mediate con eport does r	e due to co ce the flow oil. Sampl tate appro- est of my k cations and AOCD ma ntaminatio not relieve	rrosion. Contract lines were expos es were collected ved disposal facil mowledge and un d perform correct rked as "Final Re n that pose a threa the operator of re	crew installed an ed it was determined and field tested. I ity, and the excav derstand that purs ive actions for rel port" does not rel at to ground water sponsibility for c	emergency hed that the Based on fite ation backfi ruant to NM eases which eve the ope s, surface was ompliance w	repair clamp until PLU 105 flowline eld testing data and illed with clean soil. IOCD rules and may endanger trator of liability ater, human health with any other
Signature:	R-	11.	ZA				<u>UIL CONS</u>	ERVATION	DIVISIO	<u>)N</u>
Printed Name	Bradley B	levins	x x x y		Appi	roved by E	invironmental Spo	ecialist:		
itle: Assistan	t Remediat	ion Foreman			Appr	roval Date		Expiration	Date:	
-mail Addres	s: bblevins	@basspet.com	L	-	Conc	litions of A	Approval:			
Date: 10-	7-15	-	Phone: 4	32-214-3704					Attached	

* Attach Additional Sheets If Necessary