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BOPCO, L.P.
201 MAIN ST.
FORT WORTH, TEXAS 76102-3131
817/390-8400

November 3, 2015

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FEDERAL EXPRESS

Bureau of Land Management
Carlsbad District Office
620 E. Green St.
Carlsbad, New Mexico 88220
Attn: Mr. Ed Fernandez

New Mexico State Land Office
Commissioner of Public Lands
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501
Attention: Mr. Pete Martinez

New Mexico Oil Conservation Division
1220 St. Francis
Santa Fe, New Mexico 87505
Attention: Mr. William Jones

Re: Commercial Determination
PLU CVX JV Pierce Canyon #014H (4-25-30)
1st Bone Spring Shale
Eddy County, New Mexico

Gentlemen:

Please find attached hereto one (1) copy of Bass' commercial determination worksheets and exhibits which indicate that the subject well is not a commercial producer in the 1st Bone Spring Shale. Should you be in agreement that the 1st Bone Spring Shale is not commercial, please signify by executing one (1) copy of this letter in the space provided below and returning same to the undersigned at your earliest convenience.

Thank you very much and should you have any questions or comments in regard to the attached commercial determination, please do not hesitate to contact the undersigned.

Very truly yours,



R. Travis Mears

Bureau of Land Management

New Mexico State Land Office

New Mexico Oil Conservation Division

By: _____

By: _____

By: _____

Its: _____

Its: _____

Its: _____

Date: _____

Date: _____

Date: _____



INTER-OFFICE MEMORANDUM

TO: Ross Sutton
FROM: Bryce Bezant
DATE: 10/22/2015
RE: Commercial Determination
PLU CVX JV Pierce Canyon #014H (4-25-30)
Poker Lake Unit (1st Bone Spring Shale)
Eddy County, New Mexico

Attached are the worksheets and necessary exhibits for the subject well to be submitted for commercial determination. The Pierce Canyon #014H was drilled in 2013 to a total depth of 13,940' laterally completed in the 1st Bone Spring Shale reservoir. The well is producing from perforations 8,989'-13,816'. On test 8/21/2013 the well flowed at the rate of 275 BOPD, 866 MCFD, and 1544 BWPD. This well has an expected recovery of approximately 52 MBOE (13:1 mcf/bbl) from the current completion.

The capital investment was taken from the AFE report and operating costs from the LIOR statement which included water hauling charges. The most recent strip price file was utilized adjusting for current area differentials. The Pierce Canyon #014H will **not** be a commercial well and should not be incorporated into a participating area.


R. Bryce Bezant, P.E.

RBB/tah

Cc: Travis Mears
Tom McCarthy
Steve Johnson

ECONOMIC PROJECTION

Date : 10/22/2015

Lior: 1004417

4:17:15PM

Project Name : 1-1-2015 NSAI Review For BOPCO, LP
Partner : All cases
Case Type : LEASE CASE
Archive Set : NS0115

As Of Date : 04/01/2013
Discount Rate (%) : 5.00
 1004417/PLU CVX JV PC/014H/1ST

Lease Name : 1004417/PLU CVX JV PC/014H/1ST
Reserv Cat. : Proved Producing
Field : PIERCE CROSSING (BONE SPRING), E.
Operator : BOPCO
Reservoir : BONE SPRING
Co., State : EDDY, NM

Cum Oil (mbbls) : 0.00
Cum Gas (mmcf) : 0.00
Risk: 0.000 Inherited/ 0.000 Compounded

Year	Gross Wet Production		Gross Dry Gas & NGL		Sales		
	Oil (Mbbbl)	Wet Gas (MMCF)	Dry Gas (MMCF)	NGL (MGal)	Oil (Mbbbl)	Gas (MMCF)	NGL (MGal)
2013	17.351	73.678	42.512	286.607	15.685	38.431	134.728
2014	11.827	56.291	32.480	218.972	10.692	29.362	102.934
2015	5.998	10.252	5.916	39.881	5.422	5.348	18.747
2016	3.808	7.207	4.158	28.034	3.442	3.759	13.178
2017	1.468	2.948	1.701	11.469	1.328	1.538	5.391

Rem	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	40.453	150.376	86.767	584.963	36.569	78.437	274.979
Ult.	40.453	150.376					

Year	Average Price			Net Revenue			
	Oil \$/BBL	Gas \$/MCF	NGL \$/Gal	Oil (M\$)	Gas (M\$)	NGL (M\$)	Total (M\$)
2013	97.84	3.48	0.75	1,534.560	133.566	101.046	1,769.172
2014	89.21	4.37	0.88	953.800	128.281	90.568	1,172.649
2015	47.42	2.65	0.41	257.110	14.188	7.728	279.026
2016	46.76	2.73	0.40	160.960	10.246	5.237	176.443
2017	49.36	2.94	0.40	65.527	4.514	2.143	72.184

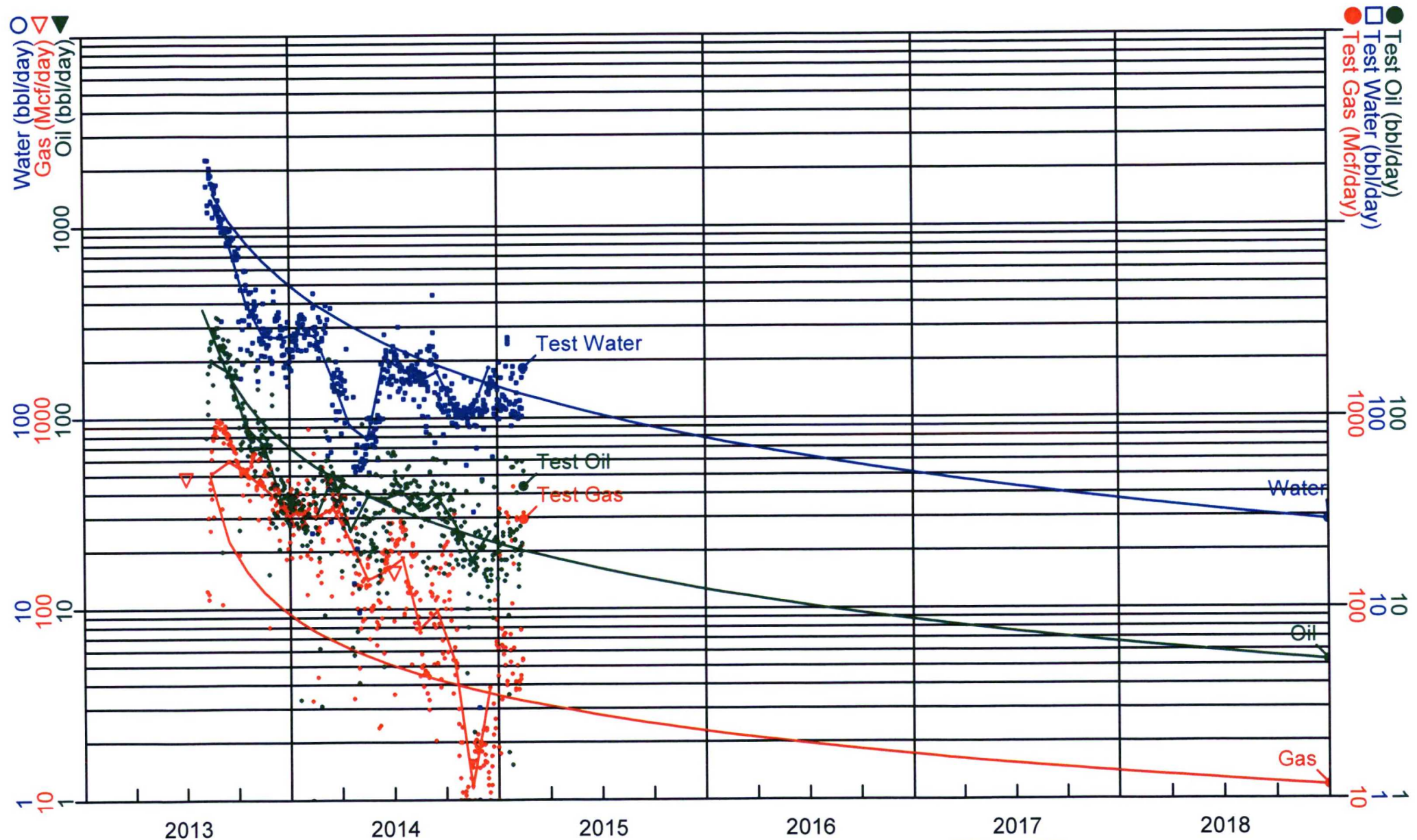
Rem	0.00	0.00	0.00	0.000	0.000	0.000	0.000
Total	81.27	3.71	0.75	2,971.957	290.794	206.722	3,469.474

Year	Expenditures				Future Net Revenue			
	Total Sev Taxes (M\$)	Total Adv Taxes (M\$)	Net Investments (M\$)	Total Net Opcosts (M\$)	Annual (M\$)	Cumulative (M\$)	Disc. Ann. CF 5.00 % (M\$)	Cum. Disc. CF 5.00 % (M\$)
2013	127.160	5.427	5,495.326	328.275	-4,187.016	-4,187.016	-4,198.568	-4,198.568
2014	96.093	4.076	0.000	433.992	638.488	-3,548.528	604.368	-3,594.200
2015	22.624	0.974	0.000	286.287	-30.859	-3,579.387	-27.178	-3,621.378
2016	14.319	0.616	0.000	265.788	-104.280	-3,683.667	-88.885	-3,710.263
2017	5.861	0.252	0.000	127.395	-61.324	-3,744.991	-50.432	-3,760.696

Rem	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	266.055	11.346	5,495.326	1,441.737	-3,744.991	-3,744.991	-3,760.696	-3,760.696

Major Phase :	Gas	Working Int :	1.00000000	Present Worth Profile (M\$)	
Perfs :	0	Revenue Int :	0.90400000		
Initial Rate :	15.53 mmcf/month	Disc. Initial Invest. (m\$) :	5,479.932	5.00% :	-3,760.70
Abandonment :	0.47 mmcf/month	Internal ROR (%) :	>1000.0	9.00% :	-3,774.30
Initial Decline :	100.00 % year	ROI Investment (disc/undisc) :	0.31 / 0.32	10.00% :	-3,777.79
Beg Ratio :	0.38 bbl/mmcf	Years to Payout :	0.00	12.00% :	-3,784.84
End Ratio :	0.49	Abandonment Date :	07/01/2017	15.00% :	-3,795.55
				20.00% :	-3,813.48
				30.00% :	-3,848.73
				40.00% :	-3,882.07
				50.00% :	-3,912.96
				60.00% :	-3,941.29

	Initial	1st Rev.	2nd Rev.
Working Interest :	1.00000000	0.00000000	0.00000000
Revenue Interest :	0.90400000	0.00000000	0.00000000
Rev. Date :			



NS0115 Oil(ARPs)
Segment: 1 of 1
Cum: 0 bbl
Rem: 53,258 bbl
EUR: 53,258 bbl
08/01/2013 - 05/24/2027
Qi: 11,295 / Qact: 5,960
Qf: 57
D: 99.990 / Dmin: 8.500
B: 0.90000

NS0115 Gas(ARPs)
Segment: 1 of 1
Cum: 0 Mcf
Rem: 180,978 Mcf
EUR: 180,978 Mcf
08/12/2013 - 05/24/2027
Qi: 15,208 / Qact: 15,531
Qf: 153
D: 100.000 / Dmin: 8.500
B: 1.20000

NS0115 Water(ARPs)
Segment: 1 of 1
Cum: 0 bbl
Rem: 289,431 bbl
EUR: 289,431 bbl
08/18/2013 - 05/24/2027
Qi: 45,625 / Qact: 41,569
Qf: 258
D: 99.000 / Dmin: 5.000
B: 0.75000

WORKSHEET FOR COMMERCIAL DETERMINATION AND PARTICIPATING AREA IN FEDERAL UNITS

WELL DATA

WELL PLU CVX JV PIERCE CANYON #014H (4-25-30) FORMATION BONE SPRING
 LOCATION UNIT, 150 FEET FROM NORTH LINE & 660 FEET FROM EAST LINE
 SECTION 4 TOWNSHIP 25S RANGE 30E COUNTY Eddy NEW MEXICO
 SPUD DATE 6/7/2013 COMPLETION DATE 8/5/2013 INITIAL PRODUCTION 8/7/2013
 PERFORATIONS 8989-13816
 BHL: 64' FSL & 655' FEL SEC 4 T25S R30E
 STIMULATION:

ACID _____

FRACTURE See Attached

POTENTIAL (8/21/2013): 275 BOPD, 866 MCFPD, 1544 BWPD

(Attach Copy of C-105. Attach Copy of Wellbore Sketch of Completed Well.)

VOLUMETRIC CALCULATION

	SANDS PERFORATED	POTENTIALLY PRODUCTIVE
Area (A) proration unit size, acres	<u>160</u>	_____
Porosity (Φ), %	<u>8.8%</u>	_____
Water saturation (Sw), %	<u>23%</u>	_____
Net Thickness (H), ft.	<u>65</u>	_____
Temperature (T), Fahrenheit	<u>140</u>	_____
Bottom Hole pressure (P), psia	<u>4,370</u>	_____
Recovery factor (RF), %	<u>12%</u>	_____
Recoverable oil, MBO *(See eq. below)	<u>305.1</u>	_____

*Sometimes unable to match performance due to volumetric uncertainty or low recovery efficiency of shale gas wells.

Formula = $((7758 \text{ rb/ac-ft}) (\text{por}) (1-S_w) / (Boi \text{ rbo/stb})(RF)(A) (h)) / 1000 \text{ bo/Mbo}$ Boi = 2.15 rb/stb

PERFORMANCE DATA

(If sufficient history exists, attach plot of oil production rate v time.)

CUMULATIVE PRODUCTION TO 7/31/2015 37,014 BBL Oil 184,133 MCF Gas
INITIAL RATE (qi) 371 BOPD
ECONOMIC LIMIT (ql) 2 BOPD
HYPERBOLIC DECLINE RATE, dy n = 0.9, d = 99%/yr
REMAINING MBO (Q) = 17
ULTIMATE RECOVERABLE MBO 54

(Attach plat showing proration unit and participating area.)

ECONOMIC

GROSS WELL COST \$2,198,130 (to the depth of formation completed)

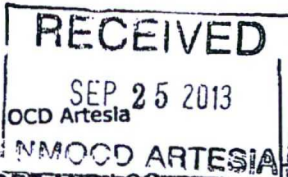
COMPLETION COST \$3,297,196

GROSS TOTAL COST \$5,495,326

YEAR	GROSS OIL MBO	BFIT NET INCOME (\$M)	OPERATING COST (\$M) INCL SEV & AD VAL TAX	5% NET BFIT DISCOUNTED CASH FLOW
ZERO				
1	17.351	1769.2	460.9	-4198.6
2	11.827	1172.6	534.2	604.4
3	5.998	279.0	309.9	-27.2
4	3.808	176.4	280.7	-88.9
5	1.468	72.2	133.5	-50.4
6	0.000	0.0	0.0	0.0
7	0.000	0.0	0.0	0.0
8	0.000	0.0	0.0	0.0
9	0.000	0.0	0.0	0.0
10	0.000	0.0	0.0	0.0
REMAINDER	0.000	0.0	0.0	0.0
TOTAL	40.452	3469.5	1719.1	-3760.7

WELL IS NOT COMMERCIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other		7. Unit or CA Agreement Name and No. NMNM710716X	
2. Name of Operator BOPCO LP		8. Lease Name and Well No. PLU PIERCE CANYON 4 25 30 USA 1H	
3. Address P O BOX 2760 MIDLAND, TX 79702		9. API Well No. 30-015-41137	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NENE 150FNL 660FEL At top prod interval reported below NENE 363FNL 801FEL At total depth SESE 64FSL 655FEL		10. Field and Pool, or Exploratory PIERCE CANYON; BONE SPR, E	
14. Date Spudded 06/07/2013		15. Date T.D. Reached 06/27/2013	
16. Date Completed ☐ D & A ☒ Ready to Prod. 08/05/2013		17. Elevations (DF, KB, RT, GL)*	
18. Total Depth: MD TVD 13940 9060		19. Plug Back T.D.: MD TVD	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CALIPER, ARRAY/IND, CNL/LITHO, CNL/GR/CCL	
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	61.0	0	929		800	225	0	0
11.000	8.625 J55	32.0	0	3000	3841	1850	788	0	0
7.875	5.500 HCP110	17.0	0	13940	39 5051	2200	664	326	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	8340							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7662	13940	8989 TO 13816	0.570	240	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8989 TO 13940	FRAC W/56562 BBLs FLUID, 2719262# PROPANT ACROSS 11 STAGES

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/07/2013	08/21/2013	24	→	275.0	866.0	1544.0	45.4	0.80	ELECTRIC PUMP SUB-SURFACE
Choke Size	Thg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→	275	866	1544	3149	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Thg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #219427 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE



9

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				RUSTLER	928
				SALADO	1302
				B SALT	3656
				DELAWARE MTN GROUP	3902
				BELL CANYON	3848
				CHERRY CANYON	4767
				BRUSHY CANYON	6309
				BONE SPRING	7668

32. Additional remarks (include plugging procedure):

****PLEASE HOLD CONFIDENTIAL****

Electric logs not run over complete wellbore. Formation tops based on mud log and correlated with adjacent well (Pierce Canyon 28 Federal #1)

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #219427 Verified by the BLM Well Information System.

For BOPCO LP, sent to the Carlsbad

Committed to AFMSS for processing by KURT SIMMONS on 09/17/2013 ()

Name(please print) TRACIE J CHERRY

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 09/09/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41137	² Pool Code 96473	³ Pool Name Pierce Crossing; Bone Spring, East
⁴ Property Code 3/3369	⁵ Property Name Poker Lake Unit CVX JV PC	⁶ Well Number 14H
⁷ OGRID No. 260737	⁸ Operator Name BOPCO, LP	⁹ Elevation 3300

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	4	25S	30E		150	North	660	East	Eddy

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	25S	30E		64	South	655	East	Eddy

¹² Dedicated Acres 160.66	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Tracie J Cherry</i> Date: <i>08/14/14</i> Printed Name: Tracie J Cherry E-mail Address: tjcherry@basspet.com
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: Signature and Seal of Professional Surveyor:
	Certificate Number:



Downhole Profile - Vertical Wells

BOPCO, L.P. - West Texas

Well Name: POKER LAKE UNIT CVX JV PC #014H (04-25-30)

Well ID: 30-015-41137

Field: Nash Draw (Del, BS, AV)

Sec: 4 Town: 25S Rng: 30E County: Eddy State: New Mexico

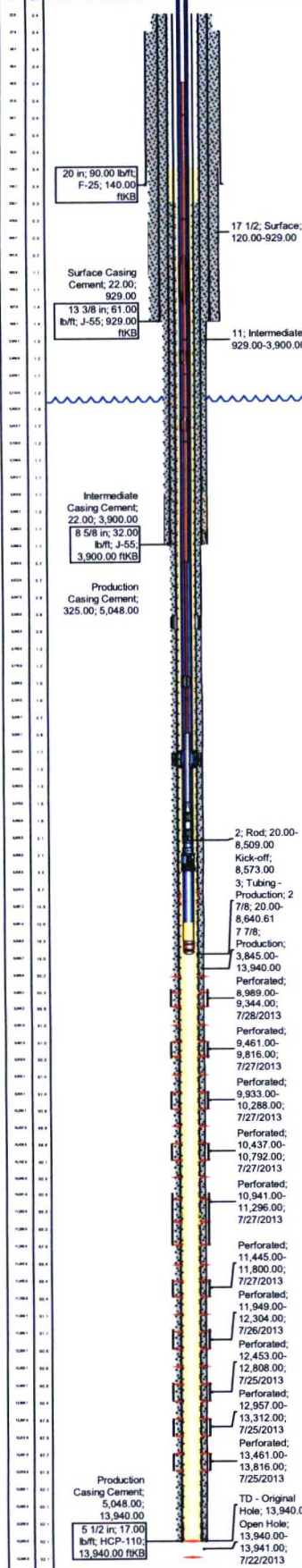
Surface Location: 150' FNL & 660' FEL, Sec 4, T25S-R30E

Horizontal - Original Hole, 3/12/2015 1:17:06 AM

Vertical schematic (actual)

Column list (actual)

Desc: Top



Well Information									
Orig KB Elev (ft)	Gr Elev (ft)	KB-Grd (ft)	Spud Date	On Production Date	PBTD (All) (ftKB)				
3,320.00	3,300.00	20.00	6/7/2013	8/8/2013					
Wellbores									
Wellbore Name: Original Hole					Kick Off Depth (ftKB): 8,573.0				
Size (in)		Act Top (ftKB)			Act Btm (ftKB)				
17 1/2		120.0			929.0				
11		929.0			3,900.0				
7 7/8		3,845.0			13,940.0				
Schematic Annotations									
Type		Depth (ftKB)			Annotation				
Casing Strings									
Csg Des	Wellbore	OD (in)	Wt (lb/ft)	Grade	Top Thread	Set @ (ftKB)	Top (ftKB)		
Conductor	Original Hole	20	90.00	F-25		140.00	28.0		
Surface	Original Hole	13 3/8	61.00	J-55	ST&C	929.00	22.0		
Intermediate	Original Hole	8 5/8	32.00	J-55	L7&C	3,900.00	22.0		
Production	Original Hole	5 1/2	17.00	HCP-110	Buttress	13,940.00	22.0		
Perforations									
Perf Date	Top (ftKB)	Btm (ftKB)	Zone		Current Status				
7/28/2013	8,989.0	9,344.0	1st Bone Spring, Original Hole		Active (8,989.0 - 8,990.0)				
7/27/2013	9,461.0	9,816.0	1st Bone Spring, Original Hole		Active (9,697.0 - 9,698.0)				
7/27/2013	9,933.0	10,288.0	1st Bone Spring, Original Hole		Active (10,169.0 - 10,170.0)				
7/27/2013	10,437.0	10,792.0	1st Bone Spring, Original Hole		Active (10,555.0 - 10,556.0)				
7/27/2013	10,941.0	11,296.0	1st Bone Spring, Original Hole		Active (11,295.0 - 11,296.0)				
7/27/2013	11,445.0	11,800.0	1st Bone Spring, Original Hole		Active (11,563.0 - 11,564.0)				
7/26/2013	11,949.0	12,304.0	1st Bone Spring, Original Hole		Active (12,067.0 - 12,068.0)				
7/25/2013	12,453.0	12,808.0	1st Bone Spring, Original Hole		Active (12,571.0 - 12,572.0)				
7/25/2013	12,957.0	13,312.0	1st Bone Spring, Original Hole		Active (13,193.0 - 13,194.0)				
7/25/2013	13,461.0	13,816.0	1st Bone Spring, Original Hole		Active (13,461.0 - 13,462.0)				
7/22/2013	13,940.0	13,941.0	1st Bone Spring, Original Hole		Active (13,940.0 - 13,941.0)				
Tubing Strings									
Tubing Description		Run Date	String Length (ft)		Set Depth (ftKB)				
Tubing - Production		4/10/2014	8,620.61		8,640.61				
No.	Item Des		Jts	OD (in)	Wt (lb/ft)	Grade	Top (ftKB)		
3-1	2-7/8" 6.5 ppf L-80 BRD Tubing		262	2 7/8	6.50	L-80	20.0		
3-2	5-1/2 x 2-7/8 TAC W / Carbide slips		1	4.892			8,442.7		
3-3	2-7/8" 6.5 ppf L-80 BRD Tubing		2	2 7/8	6.50	L-80	8,445.3		
3-4	2-7/8 Mechanical Sealing Nipple		1	2 7/8			8,508.8		
3-5	2-7/8"X3-1/2" Slotted Gas Sep/ Desander		1	3 1/2			8,509.6		
3-6	2-7/8" Mud Joints		2	2 7/8	6.50	L-80	8,526.7		
3-7	(2) 2-7/8" x 24" Chemical Jts (Silver Bullet)		2	2 7/8			8,591.6		
3-8	Bull Plug		1	2 7/8			8,639.8		
Rod Strings									
Rod Description		Run Date	String Length (ft)		Set Depth (ftKB)				
Rod		3/20/2014	8,473.70		8,493.70				
Item #	Item Des		Jts	OD (in)	Wt (lb/ft)	Grade	Top (ftKB)		
1-1	1 1/2" X 26' polished rod		1	1 1/2			20.0		
1-2	1" pony rod		1	1 1/2			46.0		
1-3	1" x 25' Tenaris MMS Steel rod		20	1	2.90		63.7		
1-4	1" x 25' Tenaris MMS Steel rod 4 guides/rod		79	1	2.90		538.7		
1-5	7/8" x 25' Tenaris MMS Steel rod 4 guides/rod		25	7/8	2.22	D 97	2,488.7		
1-6	7/8" x 25' Tenaris MMS Steel rod		13	7/8	2.22	D 97	3,113.7		
1-7	7/8" x 25' Tenaris MMS Steel rod 4 guides/rod		13	7/8	2.22		3,413.7		
1-8	7/8" x 25' Tenaris MMS Steel rod		51	7/8	2.22		3,738.7		
1-9	3/4" x 25' Tenaris MMS Steel rod		31	3/4	1.63		5,013.7		
1-10	3/4" x 25' Tenaris MMS Steel rod 4 guides/rod		13	3/4	1.63		5,763.7		
1-11	3/4" x 25' Tenaris MMS Steel rod		78	3/4	1.63		6,088.7		
1-12	1.5" API C Sinker bars		17	1 1/2	6.00		8,038.7		
1-13	250-175-RHBM-30-6-10 Panacea		1	1 1/2			8,463.7		
Rod Description		Run Date	String Length (ft)		Set Depth (ftKB)				
Rod		4/11/2014	8,489.00		8,509.00				
Item #	Item Des		Jts	OD (in)	Wt (lb/ft)	Grade	Top (ftKB)		
2-1	SM-Polished Rod / w/1" pins 22" SM		1	1 1/2			20.0		
2-2	(1) 1"x 2", (1) 1" x 6" pony rods		2	1	2.90		46.0		
2-3	1" x 25' Tenaris MMS Steel rod		17	1	2.90		54.0		
2-4	1" x 25' Tenaris MMS Steel rod 4 guides/rod		79	1	2.90		479.0		
2-5	7/8" x 25' Tenaris MMS Steel rod 4 guides/rod		25	7/8	2.22		2,454.0		
2-6	7/8" x 25' Tenaris MMS Steel rod		13	7/8	2.22		3,079.0		
2-7	7/8" x 25' Tenaris MMS Steel rod 4 guides/rod		13	7/8	2.22		3,404.0		
2-8	7/8" x 25' Tenaris MMS Steel rod		51	7/8	2.22		3,729.0		
2-9	3/4" x 25' Tenaris MMS Steel rod		31	3/4	1.63		5,004.0		
2-10	3/4" x 25' Tenaris MMS Steel rod 4 guides/rod		13	3/4	1.63		5,779.0		
2-11	3/4" x 25' Tenaris MMS Steel rod		78	3/4	1.63		6,104.0		
2-12	1.5" API C Sinker bars		17	1 1/2	6.00		8,054.0		
2-13	250-175-RHBM-30-6-10 Panacea #BPH-010		1	1 3/4			8,479.0		
Cement									
Surface Casing Cement , 6/8/2013									
String: Surface, 929.00ftKB		Cement Evaluation Results:				Top Measurement Method			
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)		Circulated				
1	22.0	929.0	78.0						
Fluid		Amount (sacks)	Class		Dens (lb/gal)		Yield (ft ³ /sack)		
Lead		480	C		13.50		1.74		
Tail		320	C		14.80		1.32		
Intermediate Casing Cement , 6/13/2013									
String: Intermediate, 3,900.00ftKB		Cement Evaluation Results:				Top Measurement Method			
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)		Circulated				
1	22.0	3,900.0	190.0						
Fluid		Amount (sacks)	Class		Dens (lb/gal)		Yield (ft ³ /sack)		
Lead		1,600	C		12.90		1.92		
Tail		250	C		14.80		1.32		
Production Casing Cement , 6/28/2013									
String: Production, 13,940.00ftKB		Cement Evaluation Results:				Top Measurement Method			
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)		Circulated				
1	5,048.0	13,940.0	60.0						
Fluid		Amount (sacks)	Class		Dens (lb/gal)		Yield (ft ³ /sack)		
Lead		500	H		12.90		1.92		
Tail		970	H		13.00		1.48		
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)		Top Measurement Method				
2	325.0	5,048.0	0.0		Temperature Log				
Fluid		Amount (sacks)	Class		Dens (lb/gal)		Yield (ft ³ /sack)		
Lead		630	C		12.90		1.92		
Tail		100	C		14.80		1.32		



Schematic - Vertical Production

BOPCO, L.P. - West Texas

Well Name: POKER LAKE UNIT CVX JV PC #014H (04-25-30)

Well ID: 30-015-41137

Field: Nash Draw (Del, BS, AV)

Sect: 4 Town: 25S Rng: 30E Eddy Co., State: New Mexico

Blk: Survey:

Most Recent Job

Job Category Completion/Workover	Primary Job Type Lift Change	Secondary Job Type	Job Start Date 4/9/2014	Job End Date 4/17/2014
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