

R: 153
C: 366

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

September 23, 2015

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 Ross Ranch #008H (28-25-30)
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: _____

2015 SEP 25 A 3: 12
RECEIVED OOD



INTER-OFFICE MEMORANDUM



TO: Ross Sutton
FROM: Bryce Bezant
DATE: 7/16/2015
RE: Commercial Determination
PLU CVX JV Ross Ranch #008H (28-25-30)
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 Ross Ranch #008H was drilled in 2012 to a total depth of 13,792' laterally completed in the 1st Bone Spring Shale reservoir. The well is producing from perforations 8,451'-13,792'. On test 4/14/2013 the well flowed at the rate of 814 BOPD, 2031 MCFD, and 2112 BWPD. This well has an expected recovery of approximately 179 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 Ross Ranch #008H 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 : 7/21/2015

Lior: 1004507

9:00:34AM

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

As Of Date : 01/01/2013
 Discount Rate (%) : 5.00
 1004507/PLU CVX JV RR/008H/1ST

Lease Name : 1004507/PLU CVX JV RR/008H/1ST
 Reserv Cat. : Proved Producing
 Field : CORRAL CANYON; BONE SPRING, SO
 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

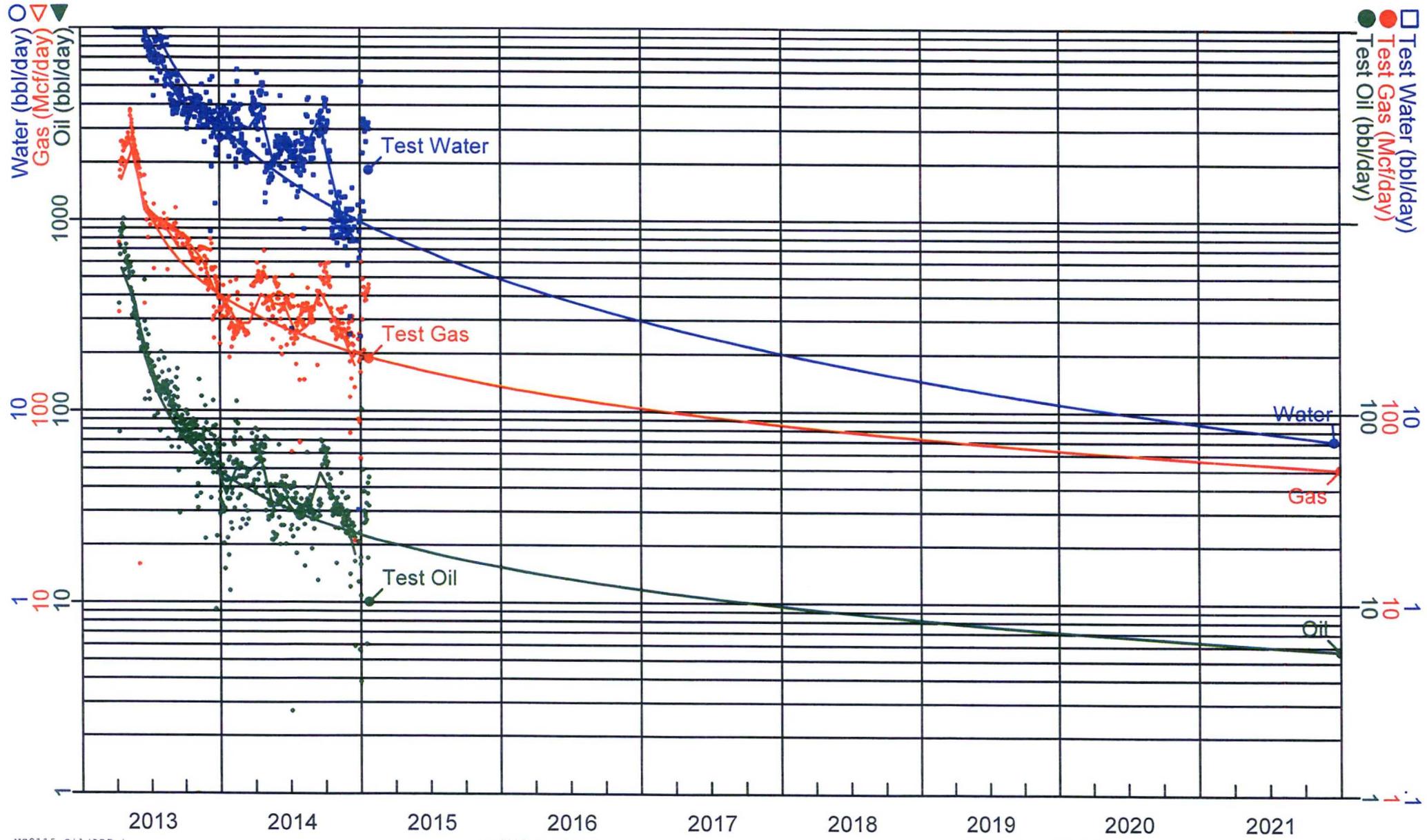
Year	Gross Wet Production		Gross Dry Gas & NGL		Sales		
	Oil (Mbbl)	Wet Gas (MMCF)	Dry Gas (MMCF)	NGL (MGal)	Oil (Mbbl)	Gas (MMCF)	NGL (MGal)
2013	50.133	281.261	124.317	1,186.921	41.610	103.183	985.145
2014	12.835	108.615	48.008	458.355	10.653	39.846	380.435
2015	6.697	59.251	26.189	250.039	5.558	21.737	207.532
2016	4.861	43.375	19.172	183.045	4.035	15.913	151.927
2017	3.848	34.476	15.239	145.490	3.193	12.648	120.757
2018	3.213	28.867	12.759	121.821	2.667	10.590	101.111
2019	2.771	24.943	11.025	105.257	2.300	9.150	87.364
2020	2.451	22.086	9.762	93.202	2.034	8.102	77.358
2021	2.192	19.767	8.737	83.418	1.819	7.252	69.237
2022	1.990	17.966	7.941	75.815	1.652	6.591	62.926
Rem	23.100	208.877	92.323	731.583	19.173	76.628	731.583
Total	114.091	849.484	375.472	3,584.790	94.696	311.642	2,975.375
Ult.	114.091	849.484					

Year	Average Price			Net Revenue			
	Oil \$/BBL	Gas \$/MCF	NGL \$/Gal	Oil (M\$)	Gas (M\$)	NGL (M\$)	Total (M\$)
2013	86.76	3.53	0.75	3,610.015	363.897	738.859	4,712.771
2014	85.25	3.96	0.83	908.155	157.701	314.455	1,380.311
2015	50.51	2.58	0.44	280.742	55.993	90.960	427.695
2016	55.69	2.89	0.46	224.691	46.044	70.414	341.148
2017	57.03	3.06	0.46	182.114	38.725	55.968	276.807
2018	58.44	3.13	0.46	155.857	33.197	46.862	235.916
2019	59.72	3.20	0.46	137.381	29.241	40.491	207.113
2020	60.79	3.29	0.46	123.662	26.678	35.853	186.194
2021	61.46	3.40	0.46	111.802	24.632	32.089	168.524
2022	61.91	3.52	0.46	102.280	23.177	29.165	154.622
Rem	62.09	4.04	0.46	1,190.536	309.437	339.068	1,839.041
Total	74.21	3.56	0.60	7,027.236	1,108.722	1,794.183	9,930.141

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	246.605	10.850	5,503.051	931.389	-1,979.124	-1,979.124	-2,051.782	-2,051.782
2014	102.568	4.472	0.000	661.392	611.879	-1,367.245	572.878	-1,478.904
2015	31.787	1.386	250.000	152.912	-8.389	-1,375.634	-12.697	-1,491.602
2016	25.348	1.105	0.000	138.216	176.480	-1,199.155	149.015	-1,342.586
2017	20.569	0.897	0.000	131.654	123.687	-1,075.468	99.441	-1,243.145
2018	17.525	0.764	0.000	128.172	89.456	-986.012	68.492	-1,174.652
2019	15.381	0.671	0.000	126.075	64.986	-921.026	47.389	-1,127.263
2020	13.826	0.603	0.000	124.720	47.045	-873.981	32.677	-1,094.586
2021	12.515	0.546	0.000	123.764	31.699	-842.282	20.971	-1,073.616
2022	11.485	0.501	0.000	123.085	19.551	-822.731	12.324	-1,061.292
Rem	136.820	5.958	0.000	2,948.510	-1,252.246	-1,252.246	-362.930	-362.930
Total	634.426	27.754	5,753.051	5,589.887	-2,074.977	-2,074.977	-1,424.223	-1,424.223

Major Phase :	Gas	Working Int :	1.00000000	Present Worth Profile (M\$)	
Perfs :	0	Revenue Int :	0.83000000	5.00% :	-1,424.22
Initial Rate :	74.35	Disc. Initial Invest. (m\$) :	5,729.824	9.00% :	-1,367.75
Abandonment :	0.30	Internal ROR (%) :	>1000.0	10.00% :	-1,375.55
Initial Decline :	100.00	ROI Investment (disc/undisc) :	0.75 / 0.64	12.00% :	-1,403.74
Reg Ratio :	0.16	Years to Payout :	0.00	15.00% :	-1,463.26
Prod Ratio :	0.11	Abandonment Date :	05/29/2047	20.00% :	-1,576.62
				30.00% :	-1,790.76
				40.00% :	-1,969.52
				50.00% :	-2,118.68
				60.00% :	-2,245.63

	Initial	1st Rev.	2nd Rev.
Working Interest :	1.00000000	0.00000000	0.00000000
Revenue Interest :	0.83000000	0.00000000	0.00000000
Rev. Date :			



NS0115 Oil (ARPs)
 Segment: 1 of 1
 Cum: 0 bbl
 Rem: 114,091 bbl
 EUR: 114,091 bbl
 05/22/2013 - 05/29/2047
 Qi: 10,917 / Qact: 11,747
 Qf: 34
 D: 100.000 / Dmin: 6.000
 R: 1.20000

NS0115 Gas (ARPs)
 Segment: 1 of 1
 Cum: 0 Mcf
 Rem: 849,484 Mcf
 EUR: 849,484 Mcf
 05/02/2013 - 05/29/2047
 Qi: 85,167 / Qact: 74,347
 Qf: 304
 D: 99.999 / Dmin: 6.000
 R: 1.20000

NS0115 Water (Formula)
 (Gas) x (WGR)
 Cum: 0 bbl
 Rem: 395,394 bbl
 EUR: 395,394 bbl
 04/01/2013 - 05/29/2047
 Qi: 0 / Qact: 64,487
 Qf: 9

WORKSHEET FOR COMMERCIAL DETERMINATION AND PARTICIPATING AREA IN FEDERAL UNITS

WELL DATA

WELL PLU CVX JV ROSS RANCH #008H (28-25-30) FORMATION BONE SPRING
 LOCATION _____ UNIT, 150 FEET FROM SOUTH LINE & 660 FEET FROM WEST LINE
 SECTION 28 TOWNSHIP 25S, RANGE 30E, COUNTY Eddy, NEW MEXICO
 SPUD DATE 12/29/2012 COMPLETION DATE 4/3/2013 INITIAL PRODUCTION 4/8/2013
 PERFORATIONS 8451-13792
 BHL: 130' FNL & 627' FWL SEC 28 T25S R30E

STIMULATION:

ACID _____

FRACTURE See Attached

POTENTIAL (4/14/2013): 814 BOPD, 2031 MCFPD, 2112 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 = $((7758 \text{ rb/ac-ft}) (\text{por}) (1-\text{Sw})/(\text{Boi rbo/stb})(\text{RF})(\text{A}) (\text{h}))/1000 \text{ bo/Mbo}$ Boi = 2.15 rb/stb

PERFORMANCE DATA

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

CUMULATIVE PRODUCTION TO	<u>5/31/2015</u>	<u>64,873</u> BBL Oil	<u>403,277</u> MCF Gas
INITIAL RATE (qi)	<u>359 BOPD</u>		
ECONOMIC LIMIT (ql)	<u>1</u>		
HYPERBOLIC DECLINE RATE, dy	<u>n = 1.2, d = 99%/yr</u>		
REMAINING MBO (Q) =	<u>49</u>		
ULTIMATE RECOVERABLE MBO	<u>114</u>		

(Attach plat showing proration unit and participating area.)

ECONOMIC

GROSS WELL COST \$2,201,220 (to the depth of formation completed)

COMPLETION COST \$3,301,831

GROSS TOTAL COST \$5,503,051

<u>YEAR</u>	<u>GROSS OIL MBO</u>	<u>BFIT NET INCOME (\$M)</u>	<u>OPERATING COST (\$M) INCL SEV & AD VAL TAX</u>	<u>5% NET BFIT DISCOUNTED CASH FLOW</u>
ZERO				
1	<u>50.133</u>	<u>4712.8</u>	<u>1188.8</u>	<u>-2051.8</u>
2	<u>12.835</u>	<u>1380.3</u>	<u>768.4</u>	<u>572.9</u>
3	<u>6.697</u>	<u>427.7</u>	<u>186.1</u>	<u>-12.7</u>
4	<u>4.861</u>	<u>341.1</u>	<u>164.7</u>	<u>149.0</u>
5	<u>3.848</u>	<u>276.8</u>	<u>153.1</u>	<u>99.4</u>
6	<u>3.213</u>	<u>235.9</u>	<u>146.5</u>	<u>68.5</u>
7	<u>2.771</u>	<u>207.1</u>	<u>142.1</u>	<u>47.4</u>
8	<u>2.451</u>	<u>186.2</u>	<u>139.1</u>	<u>32.7</u>
9	<u>2.192</u>	<u>168.5</u>	<u>136.8</u>	<u>21.0</u>
10	<u>1.990</u>	<u>154.6</u>	<u>135.1</u>	<u>12.3</u>
REMAINDER	<u>23.100</u>	<u>1839.0</u>	<u>3091.3</u>	<u>-362.9</u>
TOTAL	114.091	9930.1	6252.1	-1424.2

WELL IS NOT COMMERCIAL

OCD Artesia

Form 3160-4
(August 2007)

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
b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.
Other _____

5. Lease Serial No.
NMNM05039A

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
891000303X

2. Name of Operator
BOPCO LP
Contact: TRACIE CHERRY
E-Mail: tjcherry@basspet.com

8. Lease Name and Well No.
PLU ROSS RANCH 28 25 30 USA 1H

3. Address
MIDLAND, TX 79702
3a. Phone No. (include area code)
Ph: 432-221-7379

9. API Well No.
30-015-40765-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface SWSW 150FSL 660FWL 32.094024 N Lat, 103.892145 W Lon
At top prod interval reported below SWSW 167FSL 636FWL 32.094024 N Lat, 103.892145 W Lon
At total depth NWNW 187FSL 636FWL

10. Field and Pool, or Exploratory
CORRAL CANYON

11. Sec., T., R., M., or Block and Survey
or Area Sec 28 T25S R30E Mer NMP

12. County or Parish
EDDY
13. State
NM

14. Date Spudded
12/29/2012
15. Date T.D. Reached
01/18/2013
16. Date Completed
 D & A Ready to Prod.
04/03/2013

17. Elevations (DF, KB, RT, GL)*
3196 GL

18. Total Depth: MD 13792 TVD 8937
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)
RESISTIVEY POROSITY CALIPER
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 H-40	48.0	0	1119		1320		0	
11.000	8.625 J-55	32.0	0	3518		1650		0	
7.875	5.500 P-110	17.0	0	13791	5027	1950		1200	

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) 1ST BONE SPRING	8451	13792	9163 TO 13695		240	open
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.
Depth Interval: 9163 TO 13695
Amount and Type of Material: gal fluid, Includes 52878 gal 15% HCL, 2721762# propanit

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/08/2013	04/14/2013	24	→	814.0	2031.0	2112.0	43.7	0.8	FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
43/128	SI	1100	→	814	2031	2112	2495	POW	

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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI			→						

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #209879 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
** BLM REVISED **

RECEIVED
JUN 11 2013
NOCODARTESIA

RECLAMATION
MIF 10-3-13

ACCEPTED FOR RECORD
JUN 19 2013
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

rd

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.)
 FLARED

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	980
				BASE OF SALT	3528
				CHERRY CANYON	4682
				BRUSHY CANYON	5689
				BONE SPRING	7525
				1ST BONE SPRING	8451

32. Additional remarks (include plugging procedure):
 PLEASE HOLD COMPLETION INFORMATION CONFIDENTIAL

Base of 1st Bone Spring not logged.
 Well currently flowing up casing.

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 #209879 Verified by the BLM Well Information System.
 For BOPCO LP, sent to the Carlsbad
 Committed to AFMS for processing by KURT SIMMONS on 06/11/2013 (13KMS6381SE)**

Name (please print) TRACIE CHERRY Title REGULATORY ANALYST
 Signature _____ (Electronic Submission) Date 06/06/2013

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.

**** REVISED ** REVISED ****

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 *Effective 06/04/14*

¹ API Number 30-015-40765	² Pool Code 13354	³ Pool Name Corral Canyon; Bone Spring, South
⁴ Property Code 313372	⁵ Property Name Poker Lake Unit CVX JV RR	
⁷ OGRID No. 260737	⁸ Operator Name BOPCO, LP	⁶ Well Number 8H ⁹ Elevation 3196

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
M	28	25S	30E		150	South	660	West	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
D	28	25S	30E		130	North	627	West	Eddy

¹² Dedicated Acres 160	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.

					<p>¹⁷ OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Tracie J Cherry</i> Signature 06/04/14 Date</p> <p>Tracie J Cherry Printed Name</p> <p>tjcherry@basspet.com E-mail Address</p>
					<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p>
					<p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p>



Downhole Profile - Vertical Wells

BOPCO, L.P. - West Texas

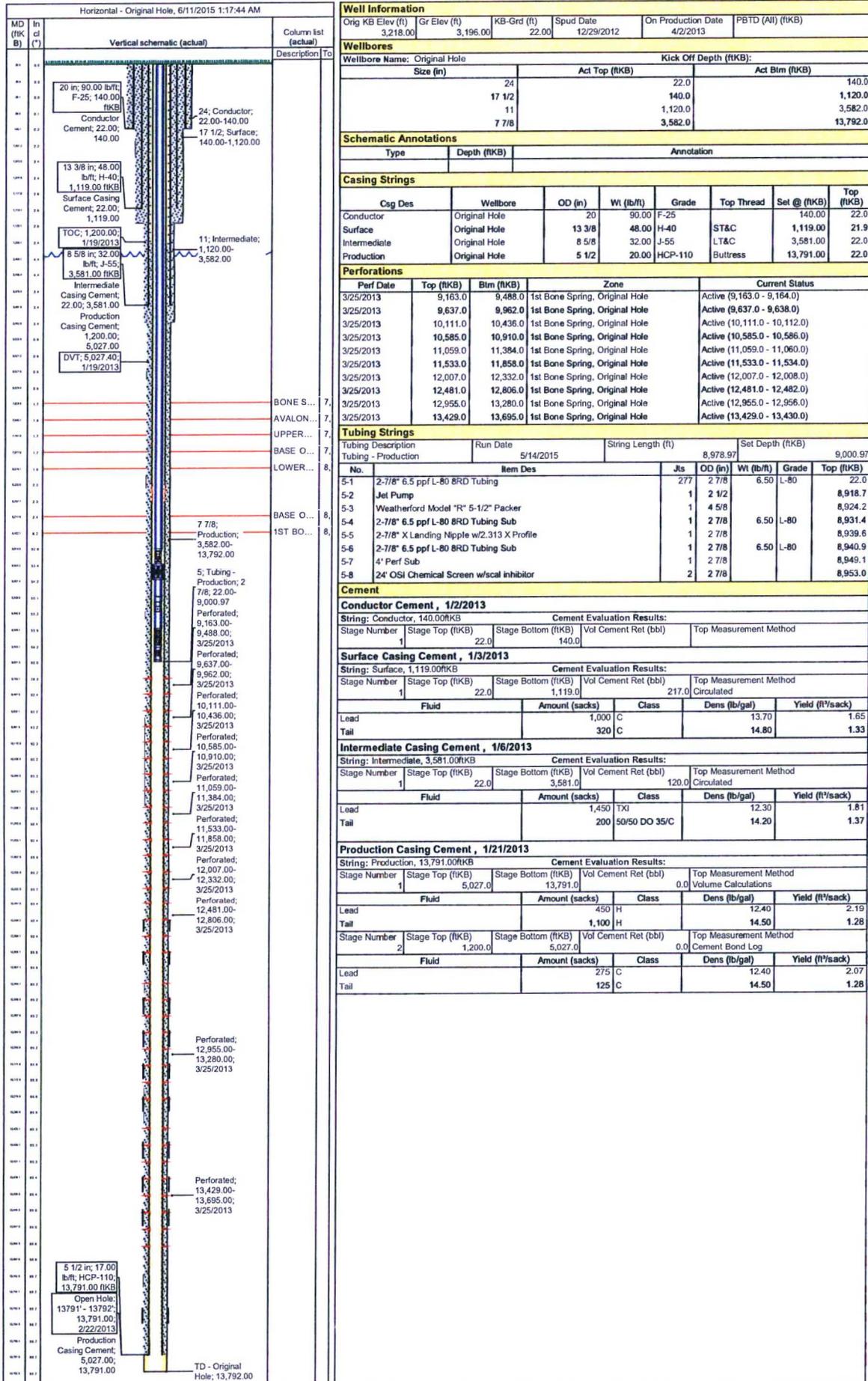
Well Name: **POKER LAKE UNIT CVX JV RR #008H (28-25-30)**

Well ID: **30-015-40765**

Field: **Corral Canyon**

Sect: 28 Town: 25S Rng: 30E County: Eddy State: New Mexico

Surface Location: 150' FSL & 660' FWL, Sec 28, T25S-R30E



Well Information					
Orig KB Elev (ft)	Gr Elev (ft)	KB-Grd (ft)	Spud Date	On Production Date	PBTD (All) (ftKB)
3,218.00	3,196.00	22.00	12/29/2012	4/2/2013	

Wellbore Name: Original Hole			Kick Off Depth (ftKB):		
Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
24	22.0	140.0	17 1/2	140.0	1,120.0
11	1,120.0	3,582.0	7 7/8	3,582.0	13,792.0

Schematic Annotations		
Type	Depth (ftKB)	Annotation

Casing Strings						
Csg Des	Wellbore	OD (in)	Wt (lb/ft)	Grade	Top Thread	Set @ (ftKB)
Conductor	Original Hole	20	90.00	F-25		140.00
Surface	Original Hole	13 3/8	48.00	H-40	ST&C	1,119.00
Intermediate	Original Hole	8 5/8	32.00	J-55	LT&C	3,581.00
Production	Original Hole	5 1/2	20.00	HCP-110	Buttress	13,791.00

Perforations					
Perf Date	Top (ftKB)	Btm (ftKB)	Zone	Current Status	
3/25/2013	9,163.0	9,488.0	1st Bone Spring, Original Hole	Active (9,163.0 - 9,164.0)	
3/25/2013	9,637.0	9,962.0	1st Bone Spring, Original Hole	Active (9,637.0 - 9,638.0)	
3/25/2013	10,111.0	10,436.0	1st Bone Spring, Original Hole	Active (10,111.0 - 10,112.0)	
3/25/2013	10,585.0	10,910.0	1st Bone Spring, Original Hole	Active (10,585.0 - 10,586.0)	
3/25/2013	11,059.0	11,384.0	1st Bone Spring, Original Hole	Active (11,059.0 - 11,060.0)	
3/25/2013	11,533.0	11,858.0	1st Bone Spring, Original Hole	Active (11,533.0 - 11,534.0)	
3/25/2013	12,007.0	12,332.0	1st Bone Spring, Original Hole	Active (12,007.0 - 12,008.0)	
3/25/2013	12,481.0	12,806.0	1st Bone Spring, Original Hole	Active (12,481.0 - 12,482.0)	
3/25/2013	12,955.0	13,280.0	1st Bone Spring, Original Hole	Active (12,955.0 - 12,956.0)	
3/25/2013	13,429.0	13,695.0	1st Bone Spring, Original Hole	Active (13,429.0 - 13,430.0)	

Tubing Strings						
Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)			
Tubing - Production	5/14/2015		9,000.97			
No.	Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Top (ftKB)
5-1	2-7/8" 6.5 ppf L-80 BRD Tubing	277	2 7/8	6.50	L-80	22.0
5-2	Jet Pump	1	2 1/2			8,918.7
5-3	Weatherford Model "R" 5-1/2" Packer	1	4 5/8			8,924.2
5-4	2-7/8" 6.5 ppf L-80 BRD Tubing Sub	1	2 7/8	6.50	L-80	8,931.4
5-5	2-7/8" X Landing Nipple w/2.313 X Profile	1	2 7/8			8,939.6
5-6	2-7/8" 6.5 ppf L-80 BRD Tubing Sub	1	2 7/8	6.50	L-80	8,940.9
5-7	4" Perf Sub	1	2 7/8			8,949.1
5-8	24" OSI Chemical Screen w/scl inhibitor	2	2 7/8			8,953.0

Cement				
Conductor Cement, 1/2/2013				
String: Conductor, 140.00ftKB		Cement Evaluation Results:		
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method
1	22.0	140.0		Circulated

Surface Casing Cement, 1/3/2013				
String: Surface, 1,119.00ftKB		Cement Evaluation Results:		
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method
1	22.0	1,119.0	217.0	Circulated
Fluid	Amount (sacks)	Class	Dens (lb/gal)	Yield (ft ³ /sack)
Lead	1,000	C	13.70	1.65
Tail	320	C	14.80	1.33

Intermediate Casing Cement, 1/6/2013				
String: Intermediate, 3,581.00ftKB		Cement Evaluation Results:		
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method
1	22.0	3,581.0	120.0	Circulated
Fluid	Amount (sacks)	Class	Dens (lb/gal)	Yield (ft ³ /sack)
Lead	1,450	TXI	12.30	1.81
Tail	200	50/50 DO 35/C	14.20	1.37

Production Casing Cement, 1/21/2013					
String: Production, 13,791.00ftKB		Cement Evaluation Results:			
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method	
1	5,027.0	13,791.0	0.0	Volume Calculations	
Fluid	Amount (sacks)	Class	Dens (lb/gal)	Yield (ft ³ /sack)	
Lead	450	H	12.40	2.19	
Tail	1,100	H	14.50	1.28	
Stage Number 2		Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method
2		1,200.0	5,027.0	0.0	Cement Bond Log
Fluid	Amount (sacks)	Class	Dens (lb/gal)	Yield (ft ³ /sack)	
Lead	275	C	12.40	2.07	
Tail	125	C	14.50	1.28	



Schematic - Vertical Production

BOPCO, L.P. - West Texas

Well Name: **POKER LAKE UNIT CVX JV RR #008H (28-25-30)**

Well ID: **30-015-40765**

Field: **Corral Canyon**

Sect: **28** Town: **25S** Rng: **30E** Eddy Co., State: **New Mexico**

Blk: **Survey:**

Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Job Start Date	Job End Date
Maintenance	Sub Pump		5/11/2015	5/16/2015

