

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

December 31, 2015

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366
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2016 JAN -5 A 10:04

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 PC #017H (PLU 440)
Poker Lake Unit (Bone Spring 2 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 Bone Spring 2 Shale. Should you be in agreement that the Bone Spring 2 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: 12/03/2015

RE: Commercial Determination
PLU CVX JV PC #017H (PLU 440)
Poker Lake Unit (Bone Spring 2 Shale)
Eddy County, New Mexico



Attached are the worksheets and necessary exhibits for the subject well to be submitted for commercial determination. The PLU CVX JV PC #017H was drilled in 2013 to a total depth of 15,306' laterally completed in the Bone Spring 2 Shale reservoir. The well is producing from perforations 9,938'-15,279'. On test 2/27/2014 the well flowed at the rate of 381 BOPD, 595 MCFD, and 398 BWPD. This well has an expected recovery of approximately 262 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 PC #017H 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 : 12/3/2015

Lior: 1000649

2:15:45PM

Project Name : 7-1-2014 NSAI Review For BOPCO, LP

As Of Date : 08/01/2013

Lease Name : 1000649/PLU CVX JV PC/017H/2ND

Partner : All cases

Discount Rate (%) : 5.00

Reserv Cat. : Proved Producing

Case Type : LEASE CASE

1000649/PLU CVX JV PC/017H/2ND

Field : PIERCE CROSSING (BONE SPRING), E.

Archive Set : NS0715

Operator : BOPCO

Cum Oil (Mbbbl) : 0.00

Reservoir : 2ND BONE SPRING SHALE

Cum Gas (MMcf) : 0.00

Co., State : EDDY, NM

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	40.251	93.279	53.076	359.001	39.204	51.696	349.667
2015	31.472	83.410	47.460	311.954	30.653	46.226	303.844
2016	19.882	56.665	32.242	211.926	19.365	31.404	206.416
2017	15.070	42.532	24.200	159.068	14.679	23.571	154.932
2018	12.276	34.458	19.607	128.874	11.957	19.097	125.523
2019	10.417	29.140	16.581	108.984	10.146	16.150	106.150
2020	9.106	25.414	14.461	95.049	8.870	14.085	92.578
2021	8.073	22.491	12.798	84.117	7.863	12.465	81.930
2022	7.283	20.264	11.530	75.788	7.094	11.231	73.817

Rem	63.407	176.263	100.294	939.230	61.758	97.686	914.810
Total	217.237	583.916	332.248	2,473.992	211.589	323.610	2,409.668
Ult.	217.237	583.916					

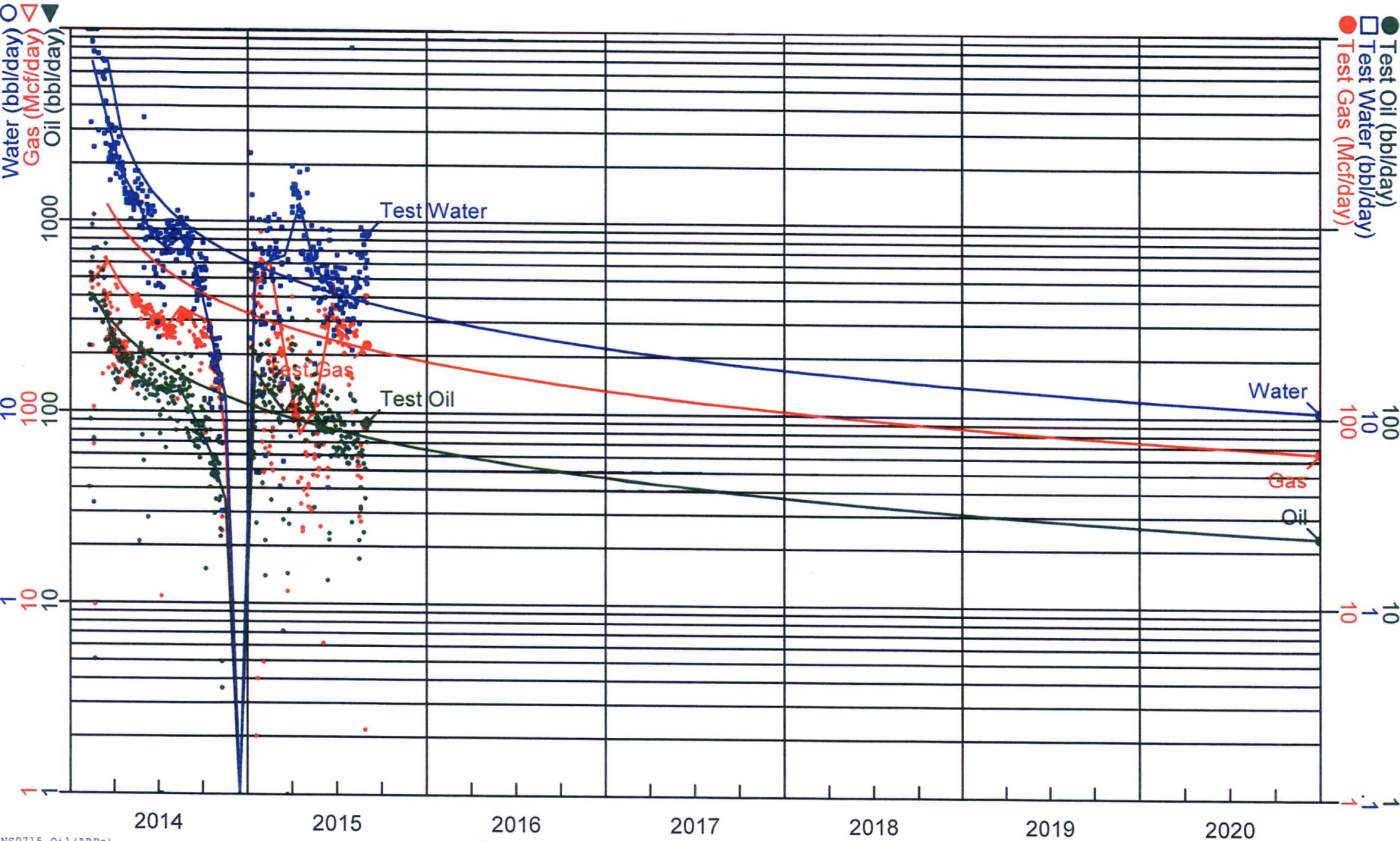
Year	Average Price			Net Revenue			
	Oil (\$/bbl)	Gas (\$/Mcf)	NGL (\$/gal)	Oil (M\$)	Gas (M\$)	NGL (M\$)	Total (M\$)
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	90.19	3.75	0.24	3,536.02	193.75	83.53	3,813.31
2015	45.10	2.30	0.12	1,382.57	106.52	35.70	1,524.79
2016	41.55	2.11	0.11	804.51	66.19	22.66	893.37
2017	45.38	2.38	0.11	666.09	56.18	17.01	739.28
2018	47.70	2.46	0.11	570.29	46.97	13.78	631.03
2019	49.50	2.52	0.11	502.21	40.78	11.65	554.64
2020	50.81	2.63	0.11	450.68	37.02	10.16	497.87
2021	51.58	2.74	0.11	405.58	34.20	8.99	448.78
2022	52.04	2.88	0.11	369.15	32.34	8.10	409.59
Rem	52.87	3.44	0.11	3,265.22	336.06	100.43	3,701.71
Total	56.49	2.94	0.13	11,952.32	950.01	312.04	13,214.37

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	0.00	0.00	6,813.12	0.00	-6,813.12	-6,813.12	-6,813.12	-6,813.12
2014	295.30	7.61	0.00	405.01	3,105.39	-3,707.73	2,990.67	-3,822.45
2015	125.25	3.04	0.00	304.70	1,091.80	-2,615.94	998.71	-2,823.74
2016	73.41	1.78	0.00	294.63	523.54	-2,092.39	454.57	-2,369.17
2017	60.76	1.48	0.00	291.31	385.73	-1,706.66	318.99	-2,050.18
2018	51.86	1.26	0.00	289.47	288.44	-1,418.22	227.15	-1,823.03
2019	45.58	1.11	0.00	288.28	219.67	-1,198.55	164.75	-1,658.28
2020	40.91	0.99	0.00	287.46	168.50	-1,030.05	120.37	-1,537.91
2021	36.89	0.90	0.00	286.82	124.18	-905.87	84.48	-1,453.43
2022	33.67	0.82	0.00	286.32	88.78	-817.09	57.53	-1,395.90
Rem	304.69	7.39	0.00	5,318.26	-1,928.63	-1,928.63	-636.36	-636.36
Total	1,068.32	26.38	6,813.12	8,052.26	-2,745.71	-2,745.71	-2,032.27	-2,032.27

Major Phase :	Gas	Working Int :	1.00000000	Present Worth Profile (M\$)	
Perfs :	0 0	Revenue Int :	0.97400000		
Initial Rate :	17,047.00 Mcf/month	Disc. Initial Invest. (m\$) :	6,813.123	5.00% :	-2,032.27
Abandonment :	304.17 Mcf/month	Internal ROR (%) :	>1000.0	9.00% :	-2,045.94
Initial Decline :	98.00 % year b = 1.200	ROInvestment (disc/undisc) :	0.70 / 0.60	10.00% :	-2,079.40
Seg Ratio :	0.49 bbl/Mcf	Years to Payout :	0.00	12.00% :	-2,163.75
End Ratio :	0.36 bbl/Mcf	Abandonment Date :	10/01/2041	15.00% :	-2,312.95
Forecast Start :	03/01/2014			20.00% :	-2,573.52
		Initial	1st Rev.	30.00% :	-3,036.71
		Working Interest :	1.00000000	40.00% :	-3,402.14
		Revenue Interest :	0.97400000	50.00% :	-3,691.89
		Rev. Date :		60.00% :	-3,927.18

1000649/PLU CVX JV PC/017H/2ND
Oper: BOPCO
Major Phase: Gas

Field: PIERCE CROSSING (BONE SPRING), EAST
EDDY, NM
ECL Date: 10/01/2041



NS0715 Oil(ARPs)
Segment: 1 of 1
Cum: 24,059 bbl
Rem: 193,178 bbl
EUR: 217,237 bbl
02/10/2014 - 10/01/2041
Qi: 12,527 / Qact: 5,302
Qf: 109
D: 97.419 / Dmin: 8.500
B: 1.20000

NS0715 Gas(ARPs)
Segment: 1 of 1
Cum: 47,793 Mcf
Rem: 536,123 Mcf
EUR: 583,916 Mcf
03/14/2014 - 10/01/2041
Qi: 36,500 / Qact: 17,047
Qf: 304
D: 98.000 / Dmin: 8.500
B: 1.20000

NS0715 Water(ARPs)
Segment: 1 of 1
Cum: 27,435 bbl
Rem: 90,815 bbl
EUR: 118,250 bbl
03/14/2014 - 10/01/2041
Qi: 21,292 / Qact: 9,337
Qf: 36
D: 100.000 / Dmin: 10.000
B: 1.20000

WORKSHEET FOR COMMERCIAL DETERMINATION AND PARTICIPATING AREA IN FEDERAL UNITS

WELL DATA

WELL PLU CVX JV PIERCE CANYON #017H (PLU 440) FORMATION BONE SPRING
 LOCATION UNIT, 1310 FEET FROM SOUTH LINE & 2430 FEET FROM EAST LINE
 SECTION 18 TOWNSHIP 24S, RANGE 30E, COUNTY Eddy, NEW MEXICO
 SPUD DATE 10/18/2013 COMPLETION DATE 2/9/2014 INITIAL PRODUCTION 2/19/2014
 PERFORATIONS 9938-15279
 BHL: 898' FSL & 2327' FEL SEC 19 T24S R30E

STIMULATION:

ACID _____

FRACTURE See Attached

POTENTIAL (2/27/2014): 381 BOPD, 595 MCFPD, 398 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>	<u> </u>	<u> </u>	<u> </u>
Porosity (Φ), %	<u>4.6%</u>	<u> </u>	<u> </u>	<u> </u>
Water saturation (Sw), %	<u>21%</u>	<u> </u>	<u> </u>	<u> </u>
Net Thickness (H), ft.	<u>239</u>	<u> </u>	<u> </u>	<u> </u>
Temperature (T), Fahrenheit	<u>151</u>	<u> </u>	<u> </u>	<u> </u>
Bottom Hole pressure (P), psia	<u>4,894</u>	<u> </u>	<u> </u>	<u> </u>
Recovery factor (RF), %	<u>12%</u>	<u> </u>	<u> </u>	<u> </u>
Recoverable oil, MBO *(See eq. below)	<u>684.7</u>	<u> </u>	<u> </u>	<u> </u>

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

Formula = $(7758 \text{ rb/ac-ft}) (\text{por}) (1-S_w) / (\text{Boi rbo/stb})(\text{RF})(A) (h) / 1000 \text{ bo/Mbo}$ Boi = 1.88 rb/stb

PERFORMANCE DATA

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

CUMULATIVE PRODUCTION TO 10/31/2015 69,059 BBL Oil 157,608 MCF Gas

INITIAL RATE (qi) 411 BOPD

ECONOMIC LIMIT (ql) 3.9 BOPD

HYPERBOLIC DECLINE RATE, dy n = 1.2, d = 99%/yr

REMAINING MBO (Q) = 148

ULTIMATE RECOVERABLE MBO 217

(Attach plat showing proration unit and participating area.)

ECONOMIC

GROSS WELL COST \$4,087,874 (to the depth of formation completed)

COMPLETION COST \$2,725,249

GROSS TOTAL COST \$6,813,123

YEAR	GROSS OIL MBO	BFIT NET INCOME (\$M)	OPERATING COST (\$M) INCL SEV & AD VAL TAX	5% NET BFIT DISCOUNTED CASH FLOW
ZERO				
1	<u>0.000</u>	<u>0.0</u>	<u>0.0</u>	<u>-6813.1</u>
2	<u>40.251</u>	<u>3813.3</u>	<u>707.9</u>	<u>2990.7</u>
3	<u>31.472</u>	<u>1524.8</u>	<u>437.5</u>	<u>998.7</u>
4	<u>19.882</u>	<u>893.4</u>	<u>374.2</u>	<u>454.6</u>
5	<u>15.070</u>	<u>739.3</u>	<u>355.7</u>	<u>319.0</u>
6	<u>12.276</u>	<u>631.0</u>	<u>343.8</u>	<u>227.2</u>
7	<u>10.417</u>	<u>554.6</u>	<u>335.6</u>	<u>164.8</u>
8	<u>9.106</u>	<u>497.9</u>	<u>329.7</u>	<u>120.4</u>
9	<u>8.073</u>	<u>448.8</u>	<u>324.8</u>	<u>84.5</u>
10	<u>7.283</u>	<u>409.6</u>	<u>320.9</u>	<u>57.5</u>
REMAINDER	<u>63.407</u>	<u>3701.7</u>	<u>5630.3</u>	<u>-636.4</u>
TOTAL	<u>217.237</u>	<u>13214.4</u>	<u>9160.5</u>	<u>-2032.3</u>

WELL IS NOT COMMERCIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

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		5. Lease Serial No. NMNM05912	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator BOPCO LP		7. Unit or CA Agreement Name and No. 891000303X	
Contact: TRACIE J CHERRY E-Mail: tjcherry@basspet.com		8. Lease Name and Well No. POKER LAKE UNIT 440H	
3. Address MIDLAND, TX 79702		9. API Well No. 30-015-41299-00-S1	
3a. Phone No. (include area code) Ph: 432-221-7379		10. Field and Pool, or Exploratory PIERCE CROSSING BONE SPRING	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 18 T24S R30E Mer NMP At surface SWSE 1310FSL 2430FEL Sec 18 T24S R30E Mer NMP At top prod interval reported below SWSE 950FSL 2619FEL Sec 19 T24S R30E Mer NMP At total depth SWSE 898FSL 2327FEL		11. Sec., T., R., M., or Block and Survey or Area Sec 18 T24S R30E Mer NMP	
14. Date Spudded 10/18/2013		15. Date T.D. Reached 11/12/2013	
16. Date Completed ☐ D & A ☒ Ready to Prod. 02/09/2014		17. Elevations (DF, KB, RT, GL)* 3157 GL	
18. Total Depth: MD 15306 TVD 9868		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) AIT CNL CALIPER RCBL GR	
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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H40	48.0	0	477		1003	244	0	
12.250	8.625 J55	32.0	0	3396		1350	421	0	
7.875	5.500 HCP-110	17.0	0	15305	5033	2370	492	2620	

24. Tubing Record

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

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
AND BONE SPRING SAND	8962	15306	9938 TO 15279	0.420	336	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
9938 TO 15279	FRAC DOWN CSG-USING 97,703 BBLs FLUID, 4,089,075# PROPANT ACROSS 14 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
02/09/2014	02/27/2014	24	→	381.0	595.0	398.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
64/64	SI	260.0	→	381	595	398		DRG	

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	Tbg. Press. Flwg. SI	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 #238112 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Accepted for record
OCD NMOC4/14/14RECLAMATION
DUE 8-9-14

RECEIVED

APR 16 2014

NMOC ARTESIA

ACCEPTED FOR RECORD

FLows FROM WELL

APR 12 2014

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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.)
CAPTURED

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	222
				SALADO	467
				BASE OF SALT	3189
				DELAWARE	3333
				BONE SPRING	7195
				1ST BONE SPRING SAND	8214
				2ND BONE SPRING SAND	8962

32. Additional remarks (include plugging procedure):

****CONFIDENTIAL COMPLETION****

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 #238112 Verified by the BLM Well Information System.
For BOPCO LP, sent to the Carlsbad
Committed to AFMSS for processing by JAMES AMOS on 04/12/2014 (14JA1003SE)

Name (please print) TRACIE J CHERRYTitle REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 03/07/2014

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

Additional data for transaction #238112 that would not fit on the form

32. Additional remarks, continued

Well currently flowing up casing. Will flow well to battery until pressure declines then return to drill out remaining frac plugs and run lift equipment.

X Cement did not circulate on 8-5/8" csg. TOC 176 by temp survey. Cement volume includes 203 sx pumped for top out.

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised July 16, 2010

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT
As Drilled

API Number 30-015-41299	Pool Code 96473	Pool Name Pierce Crossing; Bone Spring, East
Property Code 306402	Property Name POKER LAKE UNIT	Well Number 440H
ODRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3157'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	18	24 S	30 E		1310	SOUTH	2430	EAST	EDDY

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
0	19	24 S	30 E		898	SOUTH	2327	EAST	EDDY

Dedicated Acres 200	Joint or Infill	Consolidation Code	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

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.

Tracie J Cherry 030214
Signature Date

Tracie J Cherry

Printed Name
tjcherry@basspet.com

Email Address

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.

NOVEMBER 14 2012

Date Surveyed

Signature of Professional Surveyor

7977

Professional No. 27681

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 27681

SURFACE LOCATION

Lat - N 32°12'49.51"
 Long - W 103°55'10.45"
 NMSPCE- N 441728.555
 E 627966.573
 (NAD-27)

BOTTOM
HOLE LOCATION

Lot - N 32°11'53.07"
Long - W 103°55'08.98"
NADSPCE- N 436026.6
E 628115.0
(NAD-27)



Downhole Profile - Vertical Wells

Well Name: POKER LAKE UNIT CVX JV PC #017H (18-24-30)

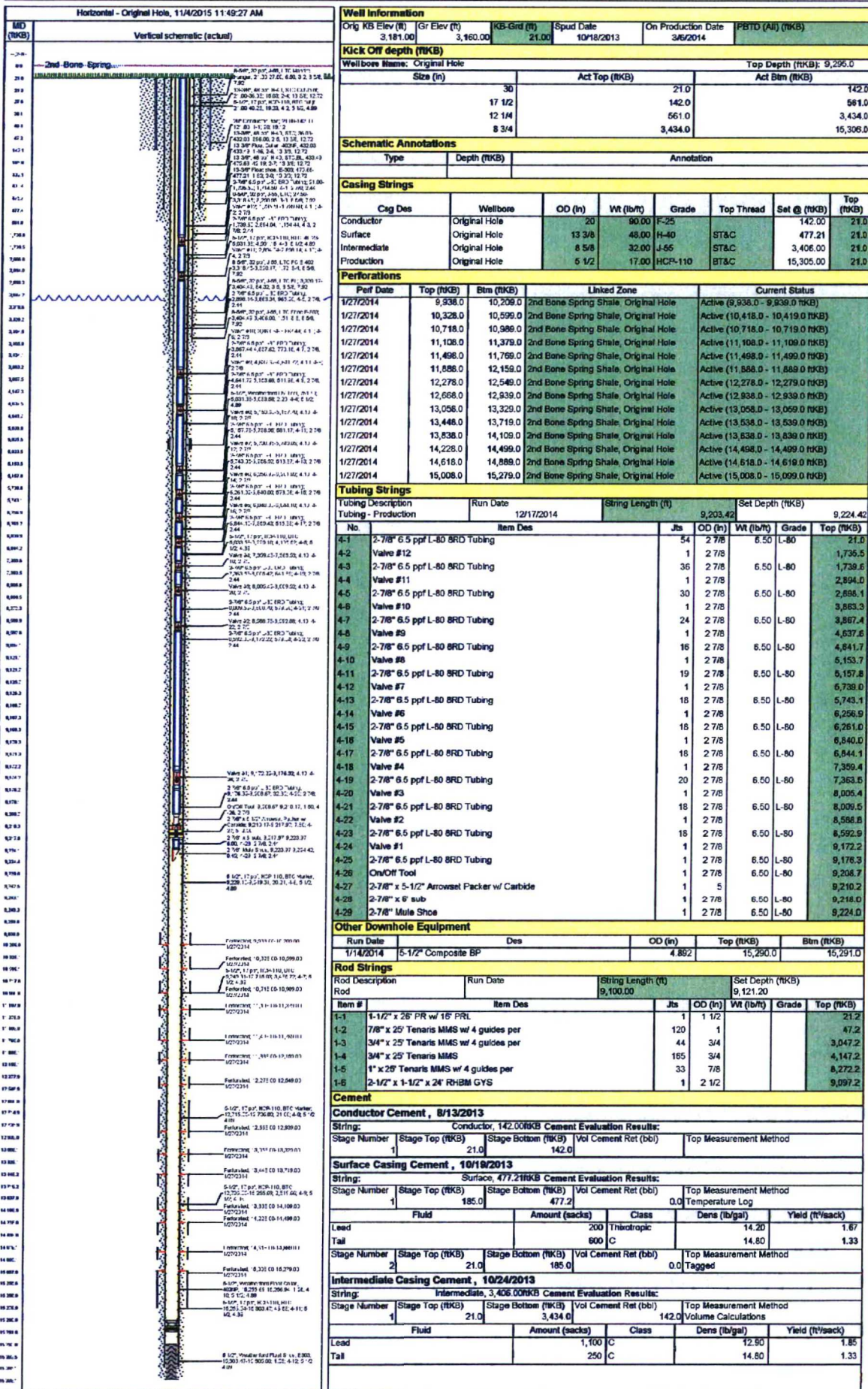
Field: Nash Draw (Del, BS, AV)

Sect: 18 Town: 24S Rng: 30E County: Eddy State: New Mexico

BOPCO, L.P. - West Texas

Well ID: 30-015-41299

Surface Location: 1310' FSL & 2430' FEL, Sec 18, T24S-R30E





Downhole Profile - Vertical Wells

BOPCO, L.P. - West Texas

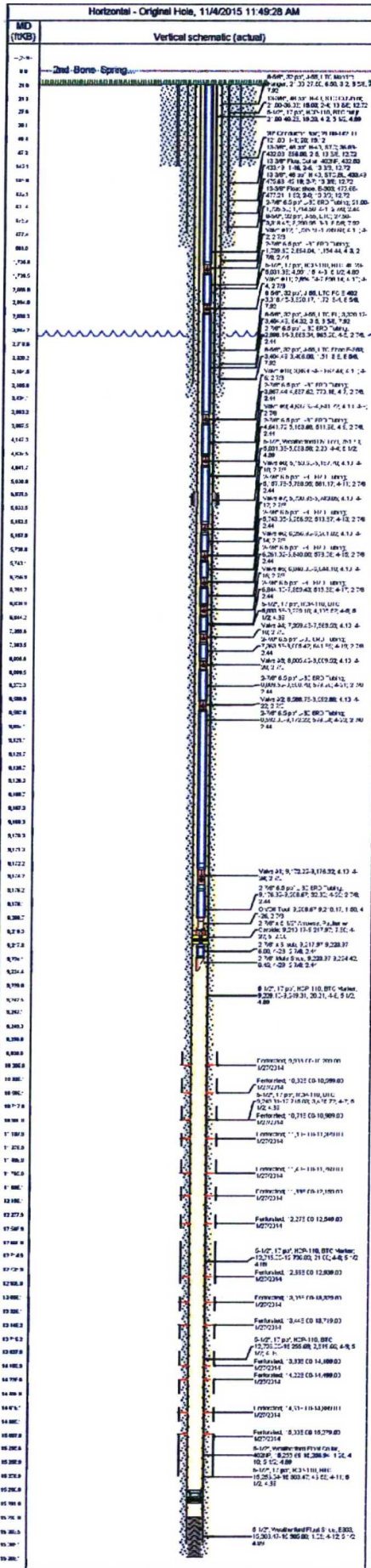
Well Name: POKER LAKE UNIT CVX JV PC #017H (18-24-30)

Well ID: 30-015-41299

Field: Nash Draw (Del, BS, AV)

Sect: 18 Town: 24S Rng: 30E County: Eddy State: New Mexico

Surface Location: 1310' FSL & 2430' FEL, Sec 18, T24S-R30E



Cement					
Production Casing Cement, 11/12/2013					
String: Production, 15,305.00ftKB Cement Evaluation Results:					
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbi)	Top Measurement Method	
1	5,031.0	15,306.0	42.0	Circulated	
Fluid		Amount (sacks)	Class	Dens (lb/gal)	Yield (ft³/sack)
Lead		670	H	11.90	2.26
Tail		1,300	H	14.50	1.21
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbi)	Top Measurement Method	
2	2,606.0		0.0	Volume Calculations	
Fluid		Amount (sacks)	Class	Dens (lb/gal)	Yield (ft³/sack)
Lead		300	C	11.90	2.25
Tail		100	C	14.80	1.33
Cement Plug, 11/13/2013					
String: Production, 15,305.00ftKB Cement Evaluation Results:					
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbi)	Top Measurement Method	
1	15,293.0	15,306.0			



Schematic - Vertical Production

BOPCO, L.P. - West Texas

Well Name: POKER LAKE UNIT CVX JV PC #017H (18-24-30)

Well ID: 30-015-41299

Field: Nash Draw (Del, BS, AV)

Sect: 18 Town: 24S 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	Pressure Survey		10/9/2015	10/9/2015

