

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

February 1, 2016

R: 153
C: 366

RECEIVED OGD

2016 MAR -1 P 2:20

FEDERAL EXPRESS

Bureau of Land Management
Carlsbad District Office
620 E. Green St.
Carlsbad, New Mexico 88220
Attn: Mr. Edward 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. Mark Fesmire

Re: Commercial Determination
Poker Lake Unit #422H
Corral Canyon, Delaware
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 a commercial well in the Delaware reservoir. Please indicate your concurrence to the above Commercial Determination. Upon your execution hereof, Bass will submit a participating area for the well.

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: _____

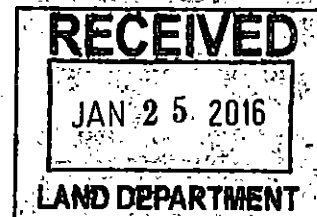
Date: _____

Date: _____

INTER-OFFICE MEMORANDUM
MIDLAND OFFICE

January 22, 2016

TO: FORT WORTH, FILES
FOR: FRANK McCREIGHT
FROM: STEVE F. JOHNSON
RE: COMMERCIAL DETERMINATION;
POKER LAKE UNIT #422H
CORRAL CANYON, DELAWARE
EDDY COUNTY, NEW MEXICO
FILE: 100-WF: PLU422HCD.DOC



Attached are the worksheets and necessary exhibits for the subject well to be submitted for commercial determination. The Poker Lake Unit #422H was drilled in 2013 to a total depth of 15,868' and was completed in the Delaware reservoir. The well is producing from perforations 14,283'-15,811'. On test 12/25/2013 the well pumped at the rate of 183 BOPD, 50 MCFPD, and 1,629 BWPD. This well is expected to recover approximately 1,463,566 MBOE from the current completion.

The most recent price file from Fort Worth was utilized and the oil price was adjusted by 6% and a shrinkage factor of 59% on the gas. An operating cost of \$33,610/mo for 12 months, \$14,500/month for 12 months, and \$6,000/month thereafter, and a \$1.25/bbl water expense was also incorporated in this evaluation. The Poker Lake Unit #422H will be a commercial well and should be incorporated into a participating area.



Steve Johnson

CC/cdh

cc: 
Andy Morrison
Brian Pregger
Mark Dickens

WORKSHEET FOR COMMERCIAL DETERMINATION AND PARTICIPATING AREA IN FEDERAL UNITS

WELL DATA

WELL	Poker Lake Unit # 422H		FORMATION	DELAWARE	
LOCATION	UNIT	1980	FEET FROM	SOUTH LINE &	2580 FEET FROM WEST LINE
SECTION	16	TOWNSHIP	25S	RANGE	30E COUNTY Eddy NEW MEXICO
SPUD DATE	8/31/2013	COMPLETION DATE	12/11/2013	INITIAL PRODUCTION	12/25/2013
PERFORATIONS	14283-15811				
BHL	1885' FSL 2493' FEL SEC 16 T25S R30E				
STIMULATION:					

ACID

FRACTURE See Attached

POTENTIAL (12/25/2013): 183 BOPD, 50 MCFPD, 1629 BWPD

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

VOLUMETRIC CALCULATION

	SANDS PERFORATED	SANDS NOT PERFORATED BUT POTENTIALLY PRODUCTIVE
Area (A) proration unit size, acres	320	
Porosity (Φ), %	11%	
Water saturation (Sw), %	59%	
Net Thickness (H), ft.	75	
Temperature (T), Fahrenheit	125	
Bottom Hole pressure (P), psia	6,142	
Recovery factor (RF), %	15%	
Recoverable Oil, Bbls (See eq. below)	839,726	

*Sometimes unable to match performance due to volumetric uncertainty.

Formula = $(7758) (A) (H) (\Phi) (1-S_w) (1/B_o) (RF)$

B_o = 1.50

Continued

PERFORMANCE DATA

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

CUMULATIVE PRODUCTION TO 11/30/2015 385,639 BBL Oil 878,452 MCF Gas

INITIAL RATE (qi) 98

ECONOMIC LIMIT (qi) 1

HYPERBOLIC DECLINE RATE, dy n = 1, d = 98%/yr

REMAINING OIL (Q) = 628,175

ULTIMATE RECOVERABLE OIL (BO) 1,013,814

(Attach plot showing proration unit and participating area.)

ECONOMIC

GROSS WELL COST \$3,427,273 (to the depth of formation completed)

COMPLETION COST \$7,390,627

GROSS TOTAL COST \$10,817,900

YEAR	GROSS OIL MBBLS	BFIT NET INCOME (\$M)	OPERATING COST (\$M) INCL SEV & AD VAL TAX	5% NET BFIT, DISCOUNTED CASH FLOW
ZERO				
1	0.921	75.0	5.4	-3357.8
2	186.659	13213.7	1274.4	4115.7
3	211.132	9004.2	1178.6	7272.7
4	108.888	3193.7	793.4	2118.6
5	73.684	2500.5	655.3	1550.6
6	55.867	2043.7	476.9	1253.8
7	45.012	1741.6	418.1	1008.6
8	37.794	1517.0	152.7	829.0
9	32.421	1332.6	339.4	686.4
10	28.451	1189.5	311.9	415.2
REMAINDER	232.985	10130.4	3843.7	3076.8
TOTAL	1013.814	45941.9	9671.7	18969.5

WELL IS COMMERCIAL

ECONOMIC PROJECTION

Date: 1/21/2016

Lior: 1000645

10:54:40AM

Project Name: Exp of WTD working database

As Of Date: 12/01/2013

Lease Name: 1000645/POKER LAKE UNIT/422H/DEL

Partner: All cases

Discount Rate (%): 5.00

Reserv Cat.: Proved Producing

Case Type: LEASE CASE

1000645/POKER LAKE UNIT/422H/DEL

Field: CORRAL CANYON; DELAWARE, NOR

Archive Set: BOPCO0715

Operator: BOPCO

Cum Oil (Mbbbl): 0.00

Reservoir: DELAWARE

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	0.921	1.326	0.531	3.739	0.790	0.456	3.209
2014	186.659	343.329	137.469	971.237	160.177	117.966	833.443
2015	211.132	570.059	228.252	1,607.566	181.178	195.868	1,379.492
2016	108.888	315.775	126.436	890.486	93.440	108.498	764.149
2017	73.684	213.684	85.559	602.589	63.230	73.420	517.097
2018	55.867	162.014	64.871	456.880	47.941	55.667	392.060
2019	45.012	130.536	52.267	368.111	38.626	44.851	315.885
2020	37.794	109.602	43.885	309.077	32.432	37.658	265.227
2021	32.421	94.020	37.646	265.137	27.821	32.305	227.520
2022	28.451	82.508	33.036	232.672	24.414	28.349	199.662
Rem	232.985	675.656	270.533	1,905.349	199.930	232.151	1,635.028
Total	1,013.814	2,698.509	1,080.483	7,612.844	869.979	927.189	6,532.772
Ult.	1,013.814	2,698.509					

Year	Average Price			Net Revenue			
	Oil (\$/bbl)	Gas (\$/Mcf)	NGL (\$/gal)	Oil (M\$)	Gas (M\$)	NGL (M\$)	Total (M\$)
2013	92.02	3.29	0.23	72.73	1.50	0.74	74.97
2014	78.93	3.36	0.21	12,643.20	396.85	173.62	13,213.67
2015	46.25	2.29	0.13	8,380.13	447.87	176.18	9,004.18
2016	31.12	2.00	0.09	2,907.47	217.11	69.12	3,193.70
2017	36.04	2.32	0.10	2,278.73	170.45	51.33	2,500.51
2018	38.93	2.45	0.11	1,866.22	136.17	41.30	2,043.70
2019	41.23	2.56	0.11	1,592.53	114.72	34.31	1,741.57
2020	42.76	2.67	0.11	1,386.74	100.65	29.64	1,517.03
2021	43.76	2.78	0.11	1,217.32	89.86	25.43	1,332.61
2022	44.45	2.89	0.11	1,085.19	82.03	22.32	1,189.53
Rem	45.76	3.44	0.11	9,149.70	797.95	182.74	10,130.40
Total	48.94	2.76	0.12	42,579.96	2,555.15	806.75	45,941.86

Year	Expenditures				Future Net Revenue			
	Total Sev. Taxes (M\$)	Total Adv Taxes (M\$)	Net Investments (M\$)	Total Net Op costs (M\$)	Annual (M\$)	Cumulative (M\$)	Disc. Ann. CF 5.00 % (M\$)	Cum. Disc. CF 5.00 % (M\$)
2013	5.22	0.15	3,427.27	0.00	-3,357.68	-3,357.68	-3,357.83	-3,357.83
2014	911.76	26.40	7,390.63	336.20	4,548.69	1,191.02	4,115.68	757.85
2015	645.30	17.98	0.00	515.36	7,825.55	9,016.56	7,272.73	8,030.58
2016	229.49	6.38	0.00	557.53	2,400.31	11,416.87	2,118.57	10,149.15
2017	179.64	4.99	0.00	470.67	1,845.20	13,262.07	1,550.62	11,699.77
2018	146.78	4.08	0.00	326.00	1,566.84	14,828.92	1,253.81	12,953.58
2019	125.05	3.48	0.00	289.55	1,323.49	16,152.40	1,008.58	13,962.16
2020	108.93	3.03	0.00	262.75	1,142.32	17,294.72	828.99	14,791.15
2021	95.69	2.66	0.00	241.02	993.24	18,287.96	686.41	15,477.56
2022	85.43	2.38	250.00	224.09	627.64	18,915.60	415.15	15,892.71
Rem	728.24	20.23	0.00	3,095.27	6,286.67	6,286.67	3,076.80	3,076.80
Total	3,261.53	91.74	11,067.90	6,318.43	25,202.27	25,202.27	18,969.51	18,969.51

Major Phase: Oil
 Initial Rate: 2,507.00 bbl/month
 Abandonment: 1,977.00 bbl/month
 Initial Decline: 98.00 % year b = 1.000
 Beg Ratio: 0.65 Mcf/bbl
 End Ratio: 0.99 Mcf/bbl
 Forecast Start: December 2013

Working Int: 1.00000000
 Revenue Int: 0.85812500
 Disc. Initial Invest. (m\$): 10,949.835
 Internal ROR (%): 100.50
 ROInvestment (disc/undisc): 2.73 / 3.28
 Years to Payout: 1.03
 Abandonment Date: 11/25/2046

Present Worth Profile (M\$)

5.00%:	18,969.51
9.00%:	15,779.08
10.00%:	15,131.31
12.00%:	13,968.21
15.00%:	12,487.26
20.00%:	10,518.95
30.00%:	7,710.94
40.00%:	5,745.37
50.00%:	4,259.66
60.00%:	3,082.09

	Initial	1st Rev.	2nd Rev.
Working Interest:	1.00000000	0.00000000	0.00000000
Revenue Interest:	0.85812500	0.00000000	0.00000000

Rev. Date:

1000645/POKER LAKE UNIT/422H/DEL

Oper: BOPCO

Major Phase: Oil

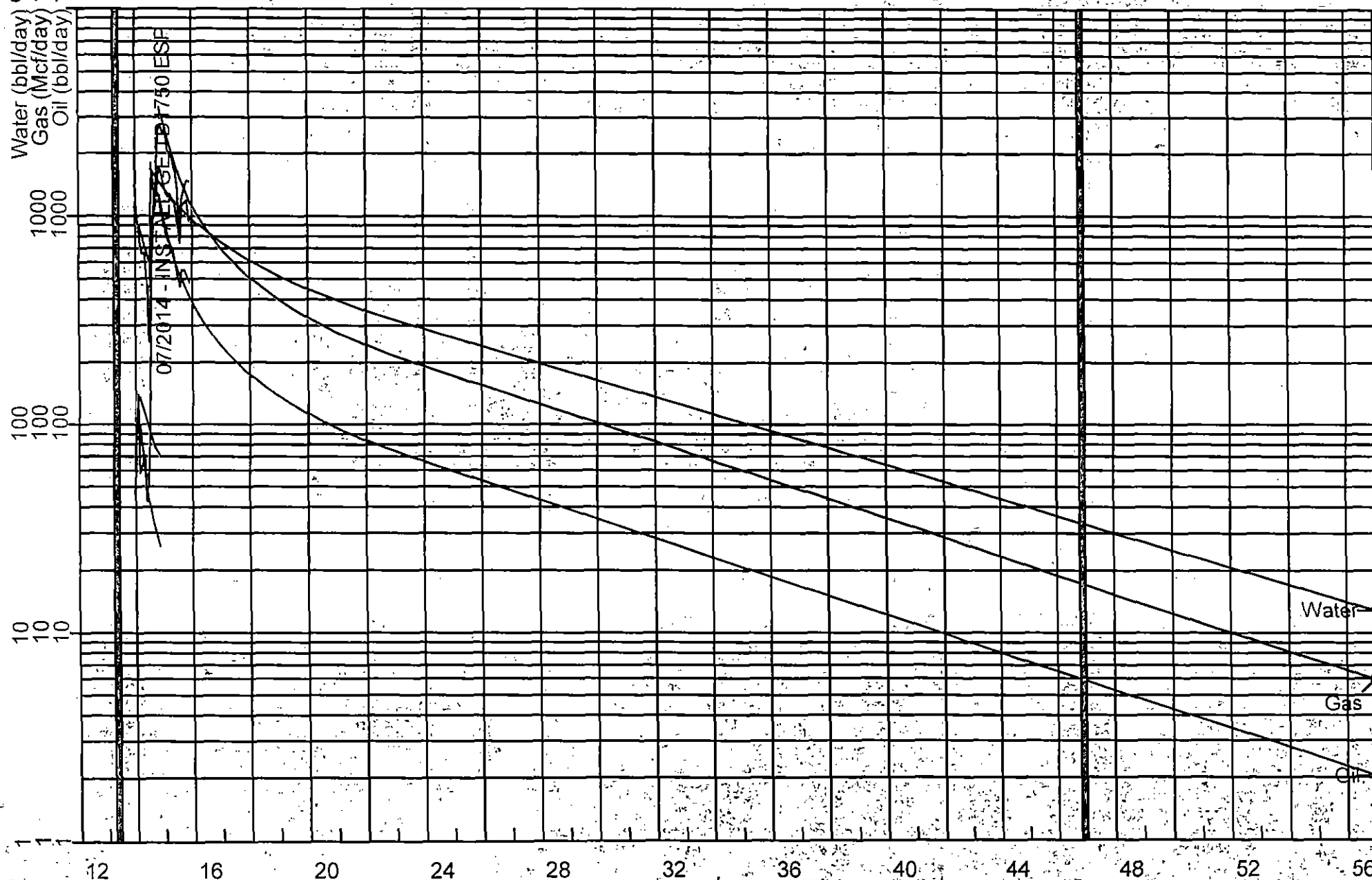
Field: CORRAL CANYON; DELAWARE, NORTHEAST

EDDY, NM

ECL Date: 11/25/2046

ECL: 11/25/2046

Oil



Hist Oil Cum: 0:00 Mbbl

Oil Rem: 1,013.81 Mbbl

Oil EUR: 1,013.81 Mbbl

Hist Gas Cum: 0:00 MMcf

Gas Rem: 2,698.51 MMcf

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMLC064894A

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMMN81016X8. Lease Name and Well No.
POKER LAKE UNIT 422H9. API Well No.
30-015-4105610. Field and Pool, or Exploratory
CORRAL CANYON; DELAWARE11. Sec., T., R., M., or Block and Survey
or Area Sec 18 T25S R30E Mer12. County or Parish
EDDY13. State
NM

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

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other2. Name of Operator
BOPCO LP Contact: TRACIE J CHERRY
E-Mail: tjcherry@basspet.com3. Address P O BOX 2760
MIDLAND, TX 79702 3a. Phone No. (include area code)
Ph: 432-221-7379

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface Sec 18 T25S R30E Mer
NESE 1980FSL 660FEL
At top prod interval reported below Sec 18 T25S R30E Mer
NWSW 1919FSL 2580FWL
At total depth Sec 18 T25S R30E Mer
NWSE 1885FSL 2493FEL14. Date Spudded
08/31/2013 15. Date T.D. Reached
09/30/2013 16. Date Completed
☐ D & A ☒ Ready to Prod.
12/11/201318. Total Depth: MD 15868
TVD 7460 19. Plug Back T.D.: MD
TVD 20. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/CNL 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. (H/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		978		800	234	0	0
12.250	9.625 J55	40.0		3604		1200	391	0	0
8.750	7.000 N80	26.0		7583	4985	730	279	0	0
6.125	4.500 HCP110	11.6	7460	15868					

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	6962							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) L. BRUSHY CANYON	7162	15868	14283 TO 15811			PRODUCING
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
14283 TO 15811	FRAC USING 16896 BBLs FLUID, 60019# PROPANT ACROSS 6 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
12/25/2013	12/25/2013	24	→	183.0	50.0	1629.0	44.1		ELECTRIC PUMP, SUB-SURFACE
Choke Size	Thg. Press. Flwg. SI	Cvg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→	183	50	1629	273	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	Cvg. 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 #231337 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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. Flow. 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. Flow. 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	450
				SALADO	790
				B. SALT	3506
				BELL CANYON	3630
				CHERRY CANYON	4530
				L. CHERRY CANYON	5684
				BRUSHY CANYON	5740
				L. BRUSHY CANYON	7155

32. Additional remarks (include plugging procedure):

****CONFIDENTIAL****

No open hole logs run.

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 #231337 Verified by the BLM Well Information System.
 For BOPCO LP, sent to the Carlsbad

Name (please print) TRACIE J CHERRY

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 01/08/2014

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.

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

DISTRICT I
1625 N. French Dr., Hobbs, NM 58240

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

Form C-102
Revised July 16, 2010

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☒ AMENDED REPORT
"As Drilled"

API Number 30-015-41056	Pool Code 13360	Pool Name Corral Canyon; Delaware
Property Code 306402	Property Name POKER LAKE UNIT	Well Number 422H
OGRD No. 260737	Operator Name BOPCO, L.P.	Elevation 3188'

Surface Location

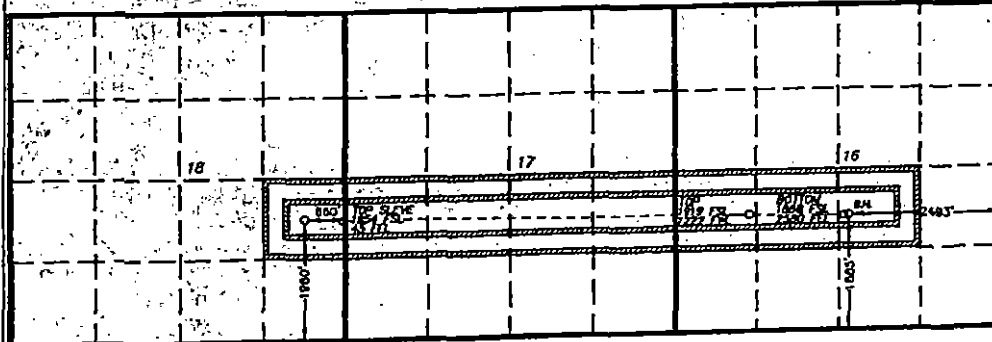
UL or lot No. I	Section 18	Township 25 S	Range 30 E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 660	East/West line EAST	County EDDY
--------------------	---------------	------------------	---------------	---------	-----------------------	---------------------------	----------------------	------------------------	----------------

Bottom Hole Location If Different From Surface

UL or lot No. J	Section 16	Township 25 S	Range 30 E	Lot Idn	Feet from the 1885	North/South line SOUTH	Feet from the 2493	East/West line EAST	County EDDY
--------------------	---------------	------------------	---------------	---------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Dedicated Acres 320	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



SURFACE LOCATION
Lat - N 32°07'41.37"
Long - W 103°54'49.43"
NADSPCE- N 410598.971
E 629893.501
(NAD-27)

BOTTOM HOLE LOCATION
Lat - N 32°07'41.05"
Long - W 103°53'06.56"
NADSPCE- N 410602.7
E 638739.9
(NAD-27)

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 undivided 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 01-08-13
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 16, 2012

Date Surveyed

Signature

Professional Surveyor

7977

No. 27194

Certificate No. Gary L. Jones

7977

Basin Surveys

27194



Downhole Profile - Vertical Wells

Well Name: POKER LAKE UNIT #422H

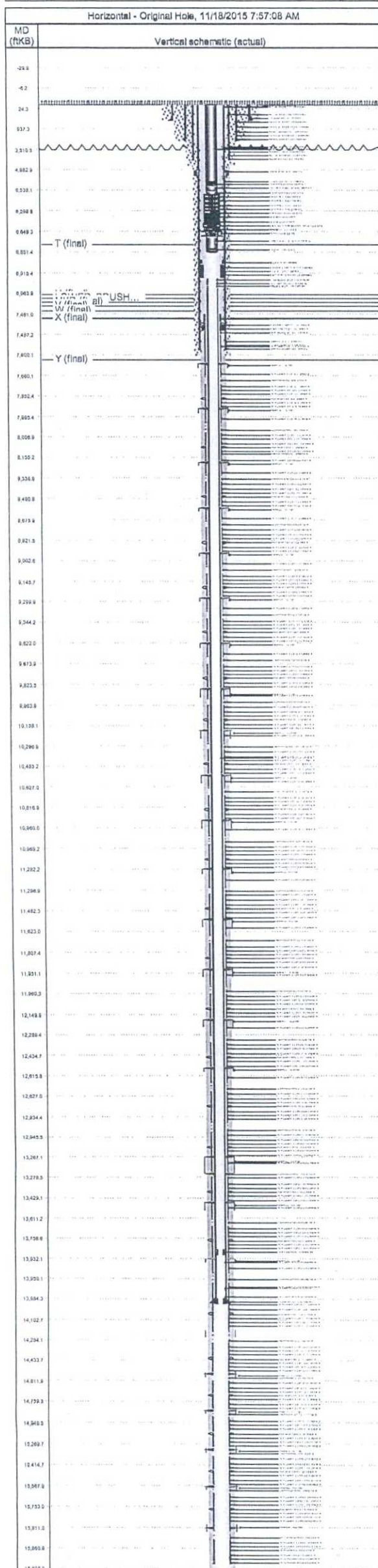
Field: Corral Canyon (Delaware) Northeast

BOPCO, L.P. - West Texas

Well ID: 30-015-41056

Sect: 18 Town: 25S Rng: 30E County: Eddy State: New Mexico

Surface Location: 1980' FSL & 660' FEL, Sec 18, T25S-R30E



Well Information							
Orig KB Elev (ft)	Gr Elev (ft)	KB-Grd (ft)	Spud Date	On Production Date	PBDT (All) (ftKB)		
3,205.00	3,186.00	19.00	8/31/2013	12/13/2013			
Kick Off depth (ftKB)							
Wellbore Name: Original Hole				Top Depth (ftKB): 6,705.8			
Size (in)		Act Top (ftKB)		Act Btm (ftKB)			
24		19.0		120.0			
17 1/2		120.0		978.0			
12 1/4		978.0		3,615.0			
8 3/4		3,615.0		7,600.0			
6 1/4		7,600.0		15,899.0			
Schematic Annotations							
Type	Depth (ftKB)	Annotation					
Casing Strings							
Cap Des	Wellbore	OD (in)	Wt (lb/ft)	Grade	Top Thread	Set @ (ftKB)	Top (ftKB)
Conductor	Original Hole	20	94.00	K-55		120.00	19.0
Surface	Original Hole	13 3/8	61.00	J-55	Buttress Thread	978.00	19.0
Intermediate 1	Original Hole	9 5/8	40.00	J-55	LT&C	3,604.00	19.0
Intermediate 2	Original Hole	7	26.00	N-80	LT&C	7,583.00	19.0
Liner	Original Hole	2 7/8	6.40	P-110	UFJ	13,985.00	6,895.6
Liner	Original Hole	4 1/2	11.60	HCP-110	Buttress Thread	15,868.00	7,461.0
Perforations							
Perf Date	Top (ftKB)	Btm (ftKB)	Linked Zone		Current Status		
6/28/2014	7,634.0	7,650.0	Lwr Brushy Canyon Y, Original Hole		Active (7,634.0 - 7,650.0 ftKB)		
10/2/2013	7,660.0	7,661.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (7,660.0 - 7,661.0 ftKB)		
6/27/2014	7,964.0	7,980.0	Lwr Brushy Canyon Y, Original Hole		Active (7,964.0 - 7,980.0 ftKB)		
10/2/2013	8,001.0	8,002.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (8,001.0 - 8,002.0 ftKB)		
6/27/2014	8,294.0	8,310.0	Lwr Brushy Canyon Y, Original Hole		Active (8,294.0 - 8,310.0 ftKB)		
10/2/2013	8,339.0	8,340.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (8,339.0 - 8,340.0 ftKB)		
6/27/2014	8,624.0	8,640.0	Lwr Brushy Canyon Y, Original Hole		Active (8,624.0 - 8,640.0 ftKB)		
10/2/2013	8,676.0	8,677.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (8,676.0 - 8,677.0 ftKB)		
6/27/2014	8,962.0	8,970.0	Lwr Brushy Canyon Y, Original Hole		Active (8,962.0 - 8,970.0 ftKB)		
10/2/2013	9,008.0	9,009.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (9,008.0 - 9,009.0 ftKB)		
6/27/2014	9,292.0	9,300.0	Lwr Brushy Canyon Y, Original Hole		Active (9,292.0 - 9,300.0 ftKB)		
10/2/2013	9,338.0	9,339.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (9,338.0 - 9,339.0 ftKB)		
6/27/2014	9,622.0	9,630.0	Lwr Brushy Canyon Y, Original Hole		Active (9,622.0 - 9,630.0 ftKB)		
10/2/2013	9,670.0	9,671.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (9,670.0 - 9,671.0 ftKB)		
6/26/2014	9,952.0	9,960.0	Lwr Brushy Canyon Y, Original Hole		Active (9,952.0 - 9,960.0 ftKB)		
10/2/2013	9,960.0	9,961.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (9,960.0 - 9,961.0 ftKB)		
6/26/2014	10,287.0	10,295.0	Lwr Brushy Canyon Y, Original Hole		Active (10,287.0 - 10,295.0 ftKB)		
10/2/2013	10,296.0	10,297.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (10,296.0 - 10,297.0 ftKB)		
6/26/2014	10,617.0	10,625.0	Lwr Brushy Canyon Y, Original Hole		Active (10,617.0 - 10,625.0 ftKB)		
10/2/2013	10,627.0	10,628.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (10,627.0 - 10,628.0 ftKB)		
6/25/2014	10,952.0	10,960.0	Lwr Brushy Canyon Y, Original Hole		Active (10,952.0 - 10,960.0 ftKB)		
10/2/2013	10,963.0	10,964.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (10,963.0 - 10,964.0 ftKB)		
6/25/2014	11,282.0	11,290.0	Lwr Brushy Canyon Y, Original Hole		Active (11,282.0 - 11,290.0 ftKB)		
10/2/2013	11,296.0	11,297.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (11,296.0 - 11,297.0 ftKB)		
6/25/2014	11,612.0	11,620.0	Lwr Brushy Canyon Y, Original Hole		Active (11,612.0 - 11,620.0 ftKB)		
10/2/2013	11,623.0	11,624.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (11,623.0 - 11,624.0 ftKB)		
6/25/2014	11,947.0	11,955.0	Lwr Brushy Canyon Y, Original Hole		Active (11,947.0 - 11,955.0 ftKB)		
10/2/2013	11,956.0	11,957.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (11,956.0 - 11,957.0 ftKB)		
6/25/2014	12,277.0	12,285.0	Lwr Brushy Canyon Y, Original Hole		Active (12,277.0 - 12,285.0 ftKB)		
10/2/2013	12,289.0	12,290.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (12,289.0 - 12,290.0 ftKB)		
6/24/2014	12,607.0	12,615.0	Lwr Brushy Canyon Y, Original Hole		Active (12,607.0 - 12,615.0 ftKB)		
10/2/2013	12,621.0	12,622.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (12,621.0 - 12,622.0 ftKB)		
10/2/2013	12,940.0	12,941.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (12,940.0 - 12,941.0 ftKB)		
6/24/2014	13,267.0	13,275.0	Lwr Brushy Canyon Y, Original Hole		Active (13,267.0 - 13,275.0 ftKB)		
10/2/2013	13,274.0	13,275.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (13,274.0 - 13,275.0 ftKB)		
6/24/2014	13,602.0	13,610.0	Lwr Brushy Canyon Y, Original Hole		Active (13,602.0 - 13,610.0 ftKB)		
10/2/2013	13,611.0	13,612.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Closed (13,611.0 - 13,612.0 ftKB)		
6/1/2014	13,932.0	13,940.0	Lwr Brushy Canyon Y, Original Hole		Active (13,932.0 - 13,940.0 ftKB)		
10/2/2013	13,949.0	13,950.0	Lwr Brushy Canyon Y, Original Hole		Proposed (13,949.0 - 13,950.0 ftKB)		
10/2/2013	14,283.0	14,284.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Open (14,283.0 - 14,284.0 ftKB)		
10/2/2013	14,608.0	14,609.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Open (14,608.0 - 14,609.0 ftKB)		
10/2/2013	14,943.0	14,944.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Open (14,943.0 - 14,944.0 ftKB)		
10/2/2013	15,275.0	15,276.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Open (15,275.0 - 15,276.0 ftKB)		
10/2/2013	15,568.0	15,569.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Open (15,568.0 - 15,569.0 ftKB)		
10/2/2013	15,811.0	15,812.0	Lwr Brushy Canyon Y, Original Hole		Sleeve - Open (15,811.0 - 15,812.0 ftKB)		
Tubing Strings							
Tubing Description		Run Date	String Length (ft)		Set Depth (ftKB)		
Tubing - Production		7/8/2015	6,832.27		6,851.27		
No.	Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	
4-1	2-7/8" 6.5 ppf L-80 BRD Tubing (Includes 19' KB)	200	2 7/8	6.50	L-80	19.0	
4-2	2-7/8" Standard Seating Nipple	1	2 7/8			6,532.9	
4-3	2-7/8" x 4" EUE 8rd 6.5 ppf N-80 Tbg Sub	1	2 7/8		N-80	6,534.0	
4-4	BOH TR4 Discharge Head	1	2 7/8			6,538.1	
4-5	GE TD-1750 (40 stg) pump	1	4			6,538.8	
4-6	GE TD-1750 (91 stg) pump	1	4			6,546.8	
4-7	GE TD-1750 (99 stg) pump	1	4			6,563.0	
4-8	GE TD-1750 (99 stg) pump	1	4			6,580.9	
4-9	GAS SEP TR4-MAG-2	1	4			6,598.7	
4-10	SEAL TR4-2BP	1	4			6,603.5	
4-11	SEAL TR4-98L	1	4			6,608.8	
4-12	MOTOR TR4-456-UT 120/1295/59 (RERATE 150/1400/69)	1	4.56			6,614.1	
4-13	SENSOR OSIRIS	1	4			6,644.9	
4-14	Desander	1	5 1/2			6,648.4	
4-15	2-7/8" EUE 8rd 6.5 ppf L-80 Tbg	6	2 7/8	6.50	L-80	6,652.6	
4-16	Bull Plug	1	2 7/8			6,650.8	
Other Downhole Equipment							
Run Date		Des		OD (in)	Top (ftKB)		Btm (ftKB)
7/9/2014		No Cap String					



Schematic - Vertical Production

Well Name: POKER LAKE UNIT #422H
Field: Corral Canyon (Delaware) Northeast

BOPCO, L.P. - West Texas

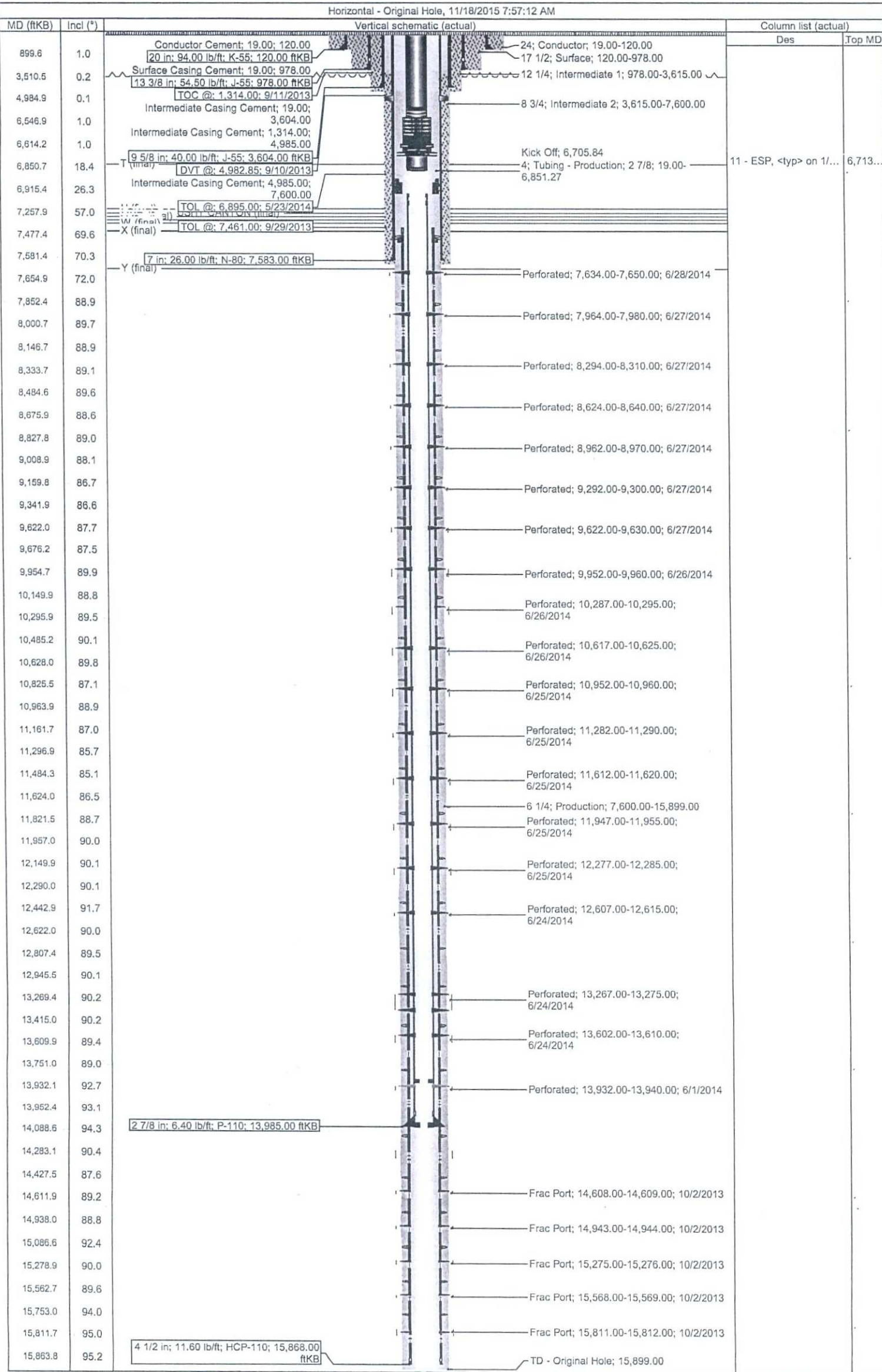
Well ID: 30-015-41056

Sect: 18 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	Pump change	7/7/2015	7/9/2015





Downhole Profile - Vertical Wells

Well Name: **POKER LAKE UNIT #422H**
Field: Corral Canyon (Delaware) Northeast

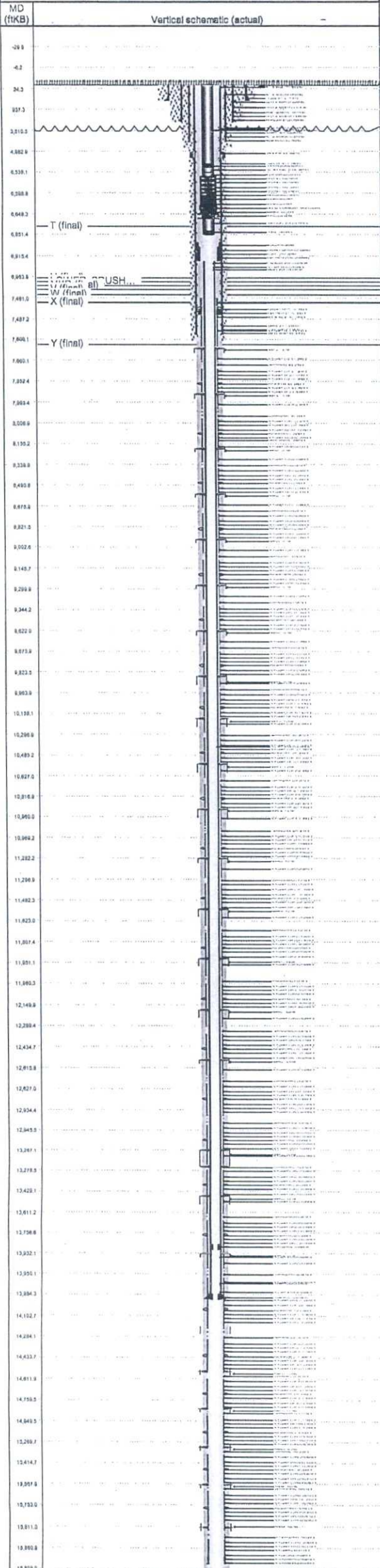
BOPCO, L.P. - West Texas

Well ID: 30-015-41056

Sect: 18 Town: 25S Rng: 30E County: Eddy State: New Mexico

Surface Location: 1980' FSL & 660' FEL, Sec 18, T25S-R30E

Horizontal - Original Hole, 11/18/2015 7:57:10 AM



Cement

Conductor Cement , 8/31/2013

String: Conductor, 120.00ftKB Cement Evaluation Results:				
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method
1	19.0	120.0		

Surface Casing Cement , 9/2/2013

String: Surface, 978.00ftKB Cement Evaluation Results:					
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method	
1	19.0	978.0	44.0	Circulated	
Fluid		Amount (sacks)	Class	Dens (lb/gal)	Yield (ft³/sack)
Lead		450	C	12.90	1.87
Tail		360	C	14.80	1.33

Intermediate Casing Cement , 9/6/2013

String: Intermediate 1, 3,604.00ftKB Cement Evaluation Results:					
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method	
1	19.0	3,604.0	137.0		
Fluid		Amount (sacks)	Class	Dens (lb/gal)	Yield (ft³/sack)
Lead		1,000	C	12.90	1.92
Tail		200	C	14.80	1.32

Intermediate Casing Cement , 9/11/2013

String: Intermediate 2, 7,583.00ftKB Cement Evaluation Results:					
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method	
1	4,985.0	7,600.0	65.0	Circulated	
Fluid		Amount (sacks)	Class	Dens (lb/gal)	Yield (ft³/sack)
Lead		250	C	11.00	2.64
Tail		130	C	13.00	1.67
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method	
2	1,314.0	4,985.0	0.0	Circulated	
Fluid		Amount (sacks)	Class	Dens (lb/gal)	Yield (ft³/sack)
Lead		250	C	11.00	2.23
Tail		100	C	14.80	1.33

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

February 1, 2016

P1153

C1366

RECEIVED OGD

2016 MAR -1 P 2:20

FEDERAL EXPRESS

Bureau of Land Management
Carlsbad District Office
620 E. Green St.
Carlsbad, New Mexico 88220
Attn: Mr. Edward 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. Mark Fesmire

Re: Commercial Determination
Poker Lake Unit #423H
Corral Canyon, Delaware
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 a commercial well in the Delaware reservoir. Please indicate your concurrence to the above Commercial Determination. Upon your execution hereof, Bass will submit a participating area for the well.

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: _____

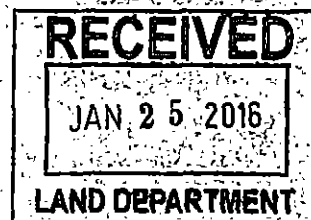
Date: _____

Date: _____

INTER-OFFICE MEMORANDUM
MIDLAND OFFICE

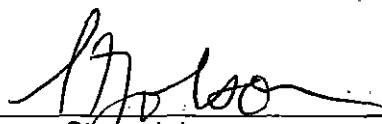
January 22, 2016

TO: FORT WORTH, FILES
FOR: FRANK McCREIGHT
FROM: STEVE F. JOHNSON
RE: COMMERCIAL DETERMINATION
POKER LAKE UNIT #423H
CORRAL CANYON, DELAWARE
EDDY COUNTY, NEW MEXICO
FILE: 100-WF: PLU422HCD.DOC



Attached are the worksheets and necessary exhibits for the subject well to be submitted for commercial determination. The Poker Lake Unit #423H was drilled in 2013 to a total depth of 14,769 and was completed in the Delaware reservoir. The well is producing from perforations 7,580'-14,693'. On test 05/05/2013 the well pumped at the rate of 737 BOPD, 890 MCFPD, and 3,064 BWPD. This well is expected to recover approximately 530,459 MBOE from the current completion.

The most recent price file from Fort Worth was utilized and the oil price was adjusted by 6% and a shrinkage factor of 59% on the gas. An operating cost of \$33,000/mo for 12 months, \$20,000/month for 12 months, and \$6,000/month thereafter, and a \$1.25/bbl water expense was also incorporated in this evaluation. The Poker Lake Unit #423H will be a commercial well and should be incorporated into a participating area.



Steve Johnson

CC/cdh

cc: 
Andy Morrison
Brian Pregger
Mark Dickins

WORKSHEET FOR COMMERCIAL DETERMINATION AND PARTICIPATING AREA IN FEDERAL UNITS

WELL DATA

WELL	Poker Lake Unit # 423H		FORMATION	DELAWARE	
LOCATION	UNIT, 1750	FEET FROM	SOUTH LINE & 880	FEET FROM	EAST LINE
SECTION 19	TOWNSHIP 25S	RANGE 30E	COUNTY Eddy	NEW MEXICO	
SPUD DATE	1/30/2013	COMPLETION DATE	4/22/2013	INITIAL PRODUCTION	5/4/2013
PERFORATIONS	7580-14693'				
BHL	1589' FSL, 880' FEL SEC 29 T25S R30E				
STIMULATION:					

ACID

FRACTURE See Attached

POTENTIAL (05/05/2013): 737 BOPD, 890 MCFPD, 3064 BWPD

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

VOLUMETRIC CALCULATION

	SANDS PERFORATED	SANDS NOT PERFORATED BUT POTENTIALLY PRODUCTIVE
Area (A) proration unit size, acres	320	
Porosity (Φ), %	11%	
Water saturation (Sw), %	67%	
Net Thickness (H), ft	53	
Temperature (T), Fahrenheit	125	
Bottom Hole pressure (P), psia	4,788	
Recovery factor (RF), %	15%	
Recoverable Oil, Bbls (See eq. below)	477,620	

*Sometimes unable to match performance due to volumetric uncertainty.

Formula = $7758 (A) (H) (\Phi) (1-S_w) (1/B_o) (RF)$

B_o = 1.50

Continued

PERFORMANCE DATA

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

CUMULATIVE PRODUCTION TO 11/30/2015 170,952 BBL Oil 636,845 MCF Gas

INITIAL RATE (qi) 648

ECONOMIC LIMIT (qi) 1

HYPERBOLIC DECLINE RATE, dy n = 1, d = 96%/yr

REMAINING OIL (Q) = 155,426

ULTIMATE RECOVERABLE OIL (BO) 326,378

(Attach plot showing proration unit and participating area.)

ECONOMIC

GROSS WELL COST: \$3,914,772 (to the depth of formation completed)

COMPLETION COST \$7,390,629

GROSS TOTAL COST \$11,305,401

YEAR	GROSS OIL MBBLS	BFIT NET INCOME (\$M)	OPERATING COST (\$M) INCL SEV & AD VAL TAX	5% NET BFIT DISCOUNTED CASH FLOW
ZERO				
1	98,595	7794.9	480.2	-4056.4
2	47,417	3765.4	699.9	2912.2
3	27,262	1094.0	584.4	457.6
4	22,997	668.0	383.4	243.0
5	17,460	585.3	253.9	270.6
6	14,107	508.9	223.4	222.1
7	11,837	451.3	201.9	184.7
8	10,224	404.4	152.7	154.1
9	8,955	362.9	172.9	127.8
10	7,984	329.4	162.7	106.7
REMAINDER	59,539	2568.2	1664.0	465.7
TOTAL	326,377	18532.8	5012.5	1087.9

WELL IS COMMERCIAL

ECONOMIC PROJECTION

Date: 1/22/2016

Lior: 1000634

1:35:32PM

Project Name: Exp of WTD working database

As Of Date: 05/01/2013

Lease Name: 1000634/POKER LAKE UNIT/423H/DEL

Partner: All cases

Discount Rate (%): 5.00

Reserv Cat: Proved Producing

Case Type: LEASE CASE

Field: CORRAL CANYON, DELAWARE, SOUTH

Archive Set: BOPCO0715

1000634/POKER LAKE UNIT/423H/DEL

Operator: BOPCO

Cum Oil (Mbbbl): 0.00

Reservoir: DELAWARE

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	98.595	331.468	177.965	0.000	78.438	141.581	0.000
2014	47.417	218.488	117.306	0.000	37.723	93.324	0.000
2015	27.262	95.672	51.366	32.056	21.689	40.865	25.503
2016	22.997	86.976	46.697	317.461	18.296	37.150	252.558
2017	17.460	66.035	35.454	241.029	13.891	28.206	191.752
2018	14.107	53.353	28.645	194.740	11.223	22.789	154.926
2019	11.837	44.768	24.036	163.403	9.417	19.122	129.996
2020	10.224	38.666	20.760	141.130	8.133	16.515	112.277
2021	8.955	33.866	18.183	123.612	7.124	14.465	98.340
2022	7.984	30.197	16.213	110.220	6.352	12.898	87.686

Rem	59.539	225.178	120.898	821.899	47.367	96.181	653.866
Total	326.378	1,224.667	657.524	2,145.550	259.652	523.097	1,706.904
Jlt	326.378	1,224.667					

Year	Average Price			Net Revenue			
	Oil (\$/bbl)	Gas (\$/Mcf)	NGL (\$/gal)	Oil (M\$)	Gas (M\$)	NGL (M\$)	Total (M\$)
2013	93.53	3.24	0.00	7,336.04	458.91	0.00	7,794.94
2014	90.54	3.75	0.00	3,415.32	350.10	0.00	3,765.42
2015	46.03	2.28	0.11	998.28	92.97	2.78	1,094.03
2016	31.19	2.01	0.09	570.71	74.52	22.75	667.98
2017	36.06	2.32	0.10	500.90	65.48	18.94	585.32
2018	38.94	2.45	0.10	437.01	55.74	16.23	508.99
2019	41.23	2.56	0.11	388.31	48.91	14.04	451.26
2020	42.76	2.67	0.11	347.79	44.14	12.48	404.41
2021	43.76	2.78	0.11	311.72	40.24	10.93	362.88
2022	44.45	2.89	0.11	282.35	37.32	9.75	329.41
Rem	45.75	3.41	0.11	2,167.19	328.35	72.68	2,568.22
Total	64.53	3.05	0.11	16,755.61	1,596.68	180.58	18,532.88

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	233.69	7.07	11,305.41	239.42	-3,990.65	-3,990.65	-4,056.37	-4,056.37
2014	242.15	7.53	0.00	450.26	3,065.48	-925.17	2,912.18	-1,144.19
2015	78.41	2.19	0.00	503.84	509.59	-415.57	457.61	-686.58
2016	48.39	1.33	0.00	333.63	284.63	-130.94	243.04	-443.54
2017	42.39	1.17	0.00	210.33	331.44	200.50	270.60	-172.94
2018	36.85	1.02	0.00	185.54	285.58	486.08	222.05	49.11
2019	32.66	0.90	0.00	168.30	249.40	735.48	184.68	233.79
2020	29.27	0.81	0.00	155.83	218.51	953.99	154.10	387.89
2021	26.26	0.72	0.00	145.87	190.03	1,144.02	127.63	515.52
2022	23.84	0.66	0.00	138.17	166.74	1,310.76	106.65	622.17
Rem	186.15	5.12	0.00	1,472.71	904.24	904.24	465.72	465.72
Total	980.05	28.51	11,305.41	4,003.91	2,215.00	2,215.00	1,087.89	1,087.89

Major Phase: Oil
 Initial Rate: 14,624.80 bbl/month
 Abandonment: 184.35 bbl/month
 Initial Decline: 96.00 % year b = 1.000
 Rec Ratio: 3.16 Mcf/bbl
 Ind Ratio: 3.78 Mcf/bbl
 Forecast Start: May 2013

Working Int: 1.00000000
 Revenue Int: 0.79555556
 Disc. Initial Invest. (m\$): 11,283.256
 Internal ROR (%): 12.89
 ROInvestment (disc/undisc): 1.10 / 1.20
 Years to Payout: 4.05
 Abandonment Date: 09/27/2036

Present Worth Profile (M\$)

5.00%	1,087.89
9.00%	464.60
10.00%	334.15
12.00%	96.67
15.00%	-211.62
20.00%	-631.38
30.00%	-1,250.23
40.00%	-1,699.13
50.00%	-2,049.07
60.00%	-2,334.41

	Initial	1st Rev.	2nd Rev.
Working Interest:	1.00000000	0.00000000	0.00000000
Revenue Interest:	0.79555556	0.00000000	0.00000000

Rev. Date:

1000634/POKER LAKE UNIT/423H/DEL

Oper: BOPCO

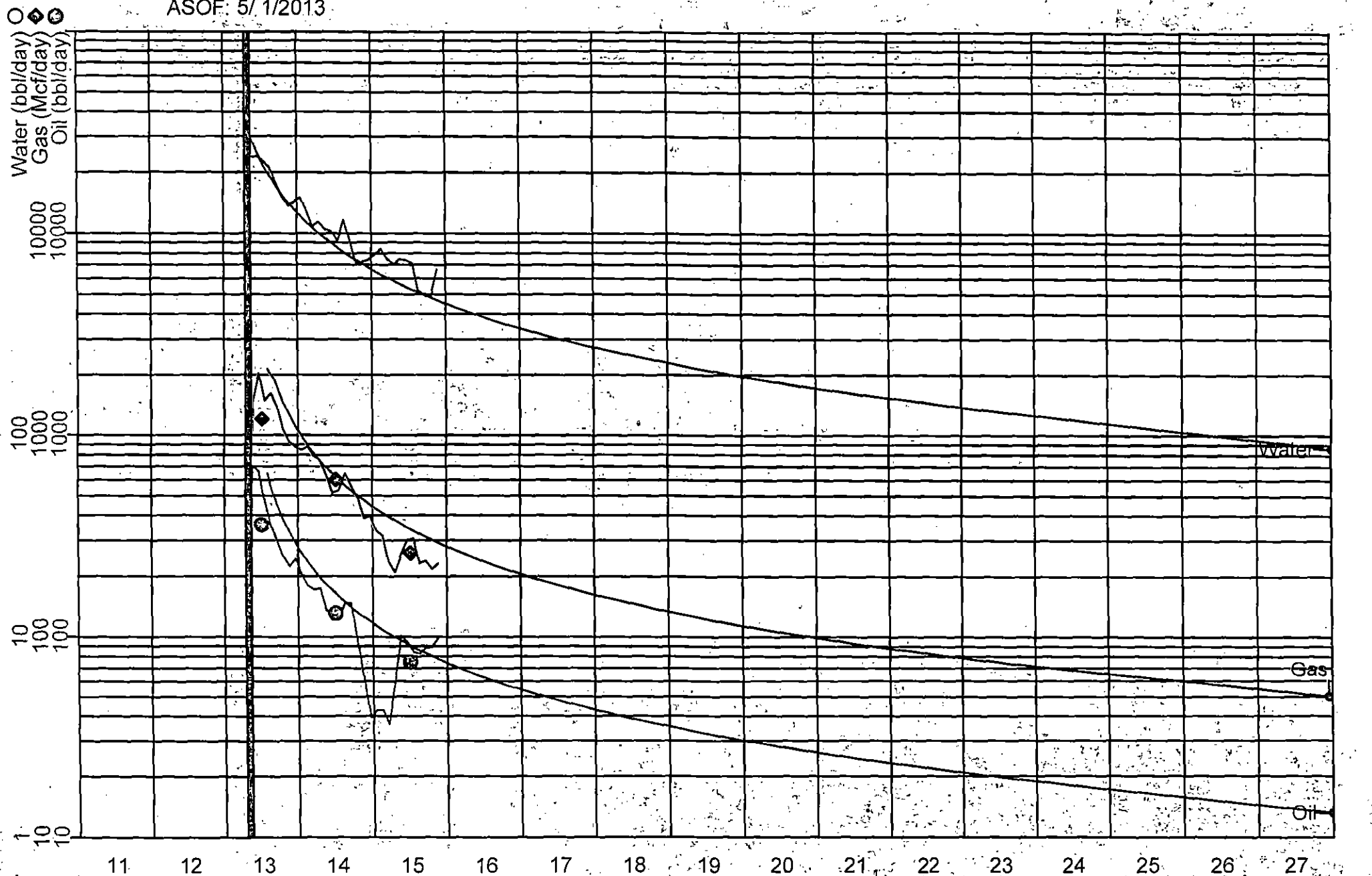
Major Phase: Oil

Field: CORRAL CANYON; DELAWARE, SOUT

EDDY, N

ECL Date: 09/27/203

ASOF: 5/1/2013



Hist Oil Cum: 0.00 Mbbl

Oil Rem: 326.38 Mbbl

Oil EUR: 326.38 Mbbl

Hist Gas Cum: 0.00 MMcf

Gas Rem: 1,224.67 MMcf

Gas EUR: 1,224.67 MMcf

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 25 2013

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

INDUCED ARTESIAL

Lease Serial No.
NMLC064894

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. 891000303X	
2. Name of Operator BOPCO LP		8. Lease Name and Well No. POKER LAKE UNIT 423H	
3. Address MIDLAND, TX 79702		9. API Well No. 30-015-40710-00-S1	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NESE 1750FSL 880FEL At top prod interval reported below NESE 1750FSL 880FEL At total depth NESE 1589FSL 880FEL		10. Field and Pool, or Exploratory CORRAL CANYON	
11. Sec., T., R., M., or Block and Survey or Area: Sec 19 T25S R30E Mer NMP		12. County or Parish EDDY	
13. State NM			

14. Date Spudded 01/30/2013	15. Date T.D. Reached 03/01/2013	16. Date Completed ☐ D & A ☒ Ready to Prod. 04/22/2013	17. Elevations (DF, KB, RT, GL)* 3178 GL
18. Total Depth: MD TVD 14789 7383	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 CNL ARRAYIND GR		22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)	

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 J-55	48.0	0	1164		700		0	
12.250	9.625 J-55	40.0	0	3600		1450		0	
8.750	7.000 N-80	26.0	0	7481	5018	510		3200	
6.125	4.500 HCP-110	11.6	7421	14749					

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	6790							

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BRUSHY CANYON	7323	14769	7580 TO 14693			OPEN HOLE COMPLETION SYSTEM
B)						
C)						
D)						

Depth Interval	Amount and Type of Material
7580 TO 14693	FRAC USING TOTAL 2113148 GAL FLUID, 2444592# PROPANT ACROSS 23 STAGES

RECLAMATION
DUE 10-22-13

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Cvr. API	Gas Gravity	Production Method
05/04/2013	05/05/2013	24	→	737.0	890.0	3064.0	43.3	0.81	ELECTRIC PUMP SUB-SURFACE
Choke Size	Thg. Press. Flwg. SI	Cvg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→	737	890	3064	1208	POW	

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Cvr. API	Gas Gravity	Production Method
			→						
Choke Size	Thg. Press. Flwg. SI	Cvg. 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 #211066 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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	Thg. 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	Thg. 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	470
				SALADO	1160
				BASE OF SALT	3378
				LAMAR	3580
				BELL CANYON	3600
				CHERRY CANYON	4468
				BRUSHY CANYON	5725

32. Additional remarks (include plugging procedure):

*** PLEASE HOLD COMPLETION AND LOGS CONFIDENTIAL ***

1st stage cement on 7" did not circulate to DV. Got red dye back
2nd stage cement TOC determined by temperature survey

Base of L. Brushy Canyon not logged

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 #211066 Verified by the BLM Well Information System.

For BOPCO LP, sent to the Carlsbad

Committed to AFMSS for processing by KURT SIMMONS on 06/20/2013 (13KMS6546SE)

Name (please print) TRACIE CHERRY

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 06/19/2013

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

DISTRICT I
1826 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Arapahoe, 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 O-102
Revised July 16, 2010

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT
As Drilled

API Number 30-015-40710	Pool Code 96620	Pool Name Corral Canyon; Delaware, S.
Property Code 306402	Property Name POKER LAKE UNIT	Well Number 423H
GRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3178'

Surface Location

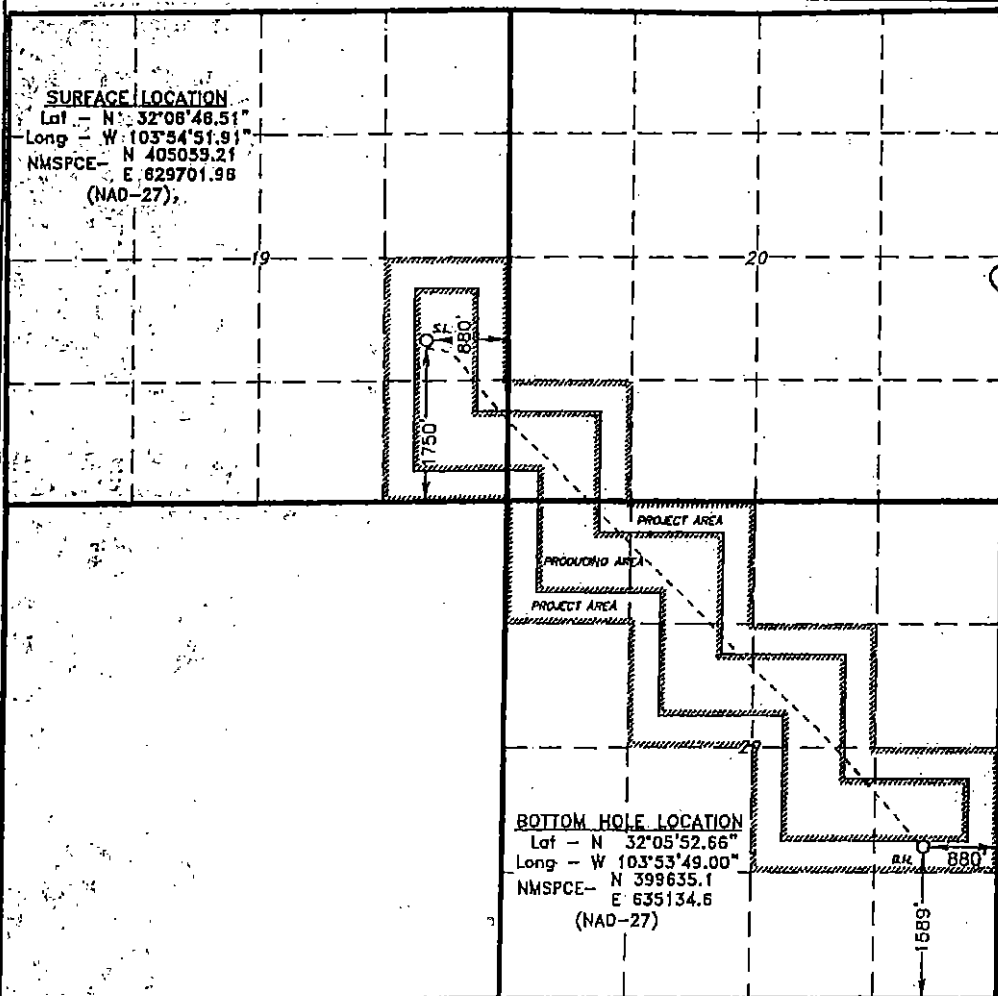
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	19	25 S	30 E		1750	SOUTH	880	EAST	EDDY

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
I	29	25 S	30 E		1589	SOUTH	880	EAST	EDDY

Dedicated Acres 360	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

SURFACE LOCATION Lat - N 32°08'48.51" Long - W 103°54'51.91" NAD-27 NAD-27  BOTTOM HOLE LOCATION Lat - N 32°05'52.66" Long - W 103°53'49.00" NAD-27 NAD-27	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. <i>Tracie J Cherry</i> Signature Date 06-13-12 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. Date Surveyed Signature of Professional Surveyor Professional Surveyor No. 7977 Certificate No. Gary L. Jones 7977 BADIN SURVEYS 26762
--	--



Downhole Profile - Vertical Wells

Well Name: POKER LAKE UNIT #423H

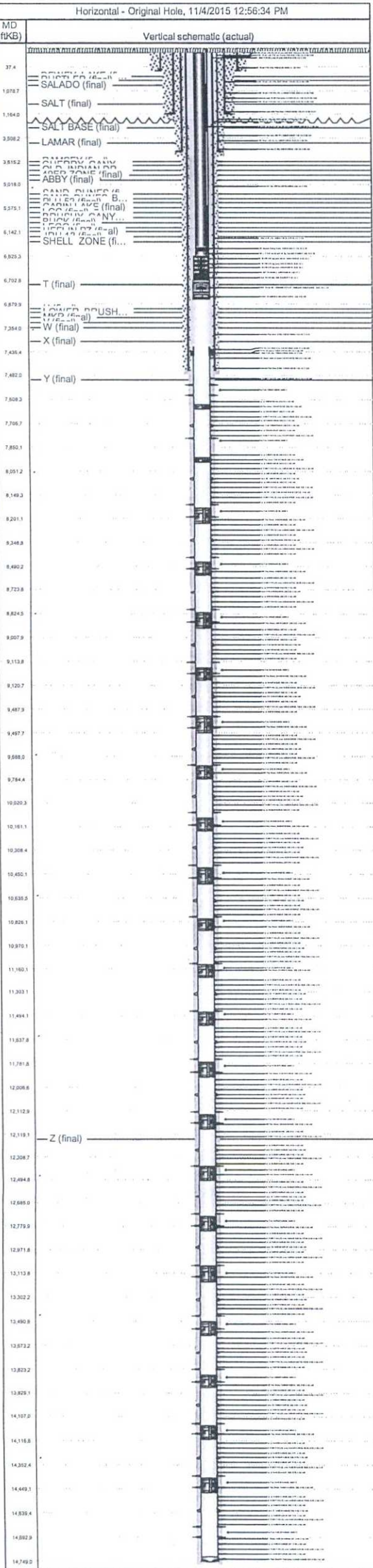
Field: Corral Canyon

BOPCO, L.P. - West Texas

Well ID: 30-015-40710

Sect: 19 Town: 25S Rng: 30E County: Eddy State: New Mexico

Surface Location: 1750' FSL & 880' FEL, Sec 19, T25S-R30E



Well Information								
Orig KB Elev (ft)	Gr Elev (ft)	KB-Grd (ft)	Spud Date	On Production Date	PBDT (All) (ftKB)			
3,197.00	3,178.00	19.00	1/30/2013	5/4/2013				
Kick Off depth (ftKB)								
Wellbore Name: Original Hole				Top Depth (ftKB): 6,872.0				
Size (in)		Act Top (ftKB)			Act Btm (ftKB)			
24		19.0			121.0			
17 1/2		121.0			1,165.0			
12 1/4		1,165.0			3,601.0			
8 3/4		3,601.0			7,482.0			
6 1/8		7,482.0			14,769.0			
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		121.00	19.0	
Surface	Original Hole	13 3/8	48.00	J-55	ST&C	1,164.00	19.0	
Intermediate 1	Original Hole	9 5/8	40.00	J-55	LT&C	3,600.00	19.0	
Intermediate 2	Original Hole	7	26.00	N-80	LT&C	7,481.00	19.0	
Liner	Original Hole	4 1/2	11.60	HCP-110	LT&C	14,749.00	7,421.1	
Perforations								
Perf Date	Top (ftKB)	Btm (ftKB)	Linked Zone			Current Status		
4/9/2013	7,580.0	7,582.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (7,580.0 - 7,582.0 ftKB)		
4/9/2013	7,848.0	7,850.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (7,848.0 - 7,850.0 ftKB)		
4/9/2013	8,199.0	8,201.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (8,199.0 - 8,201.0 ftKB)		
4/9/2013	8,489.0	8,491.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (8,489.0 - 8,491.0 ftKB)		
4/9/2013	8,824.0	8,826.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (8,824.0 - 8,826.0 ftKB)		
4/9/2013	9,114.0	9,116.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (9,114.0 - 9,116.0 ftKB)		
4/9/2013	9,494.0	9,496.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (9,494.0 - 9,496.0 ftKB)		
4/9/2013	9,781.0	9,783.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (9,781.0 - 9,783.0 ftKB)		
4/9/2013	10,159.0	10,161.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (10,159.0 - 10,161.0 ftKB)		
4/9/2013	10,449.0	10,451.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (10,449.0 - 10,451.0 ftKB)		
4/9/2013	10,825.0	10,827.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (10,825.0 - 10,827.0 ftKB)		
4/9/2013	11,159.0	11,161.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (11,159.0 - 11,161.0 ftKB)		
4/9/2013	11,493.0	11,495.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (11,493.0 - 11,495.0 ftKB)		
4/9/2013	11,781.0	11,783.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (11,781.0 - 11,783.0 ftKB)		
4/9/2013	12,113.0	12,115.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (12,113.0 - 12,115.0 ftKB)		
4/9/2013	12,491.0	12,493.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (12,491.0 - 12,493.0 ftKB)		
4/9/2013	12,778.0	12,780.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (12,778.0 - 12,780.0 ftKB)		
4/9/2013	13,113.0	13,115.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (13,113.0 - 13,115.0 ftKB)		
4/9/2013	13,490.0	13,492.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (13,490.0 - 13,492.0 ftKB)		
4/9/2013	13,823.0	13,825.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (13,823.0 - 13,825.0 ftKB)		
4/9/2013	14,113.0	14,115.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (14,113.0 - 14,115.0 ftKB)		
4/9/2013	14,447.0	14,449.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (14,447.0 - 14,449.0 ftKB)		
4/9/2013	14,691.0	14,693.0	Lwr Brushy Canyon Y, Original Hole			Sleeve - Open (14,691.0 - 14,693.0 ftKB)		
Tubing Strings								
Tubing Description		Run Date	String Length (ft)		Set Depth (ftKB)			
Tubing - Production		11/3/2014	6,718.01		6,737.01			
No.	Item Des			Jts	OD (in)	Wt (lb/ft)	Grade	Top (ftKB)
3-1	2-7/8" EUE 8rd 6.5 ppf L-80 Tbg (20' KB)			205	2 7/8	6.50	L-80	19.0
3-2	2-7/8" Standard Seating Nipple			1	2 7/8			6,620.1
3-3	2-7/8" x 4' EUE 8rd 6.5 ppf N-80 Tbg Sub			1	2 7/8		N-80	6,621.2
3-4	GE TD-1750 (116 stg) pump W/BOH			1	4			6,625.2
3-5	GE TD-1750 (116 stg) pump			1	4			6,646.3
3-6	GE TD-1750 (116 stg) pump			1	4			6,666.7
3-7	GAS SEP TR4-MAGS-2			1	4			6,687.2
3-8	SEALS TR4-2BP/98L			2	4			6,691.6
3-9	MOTOR TR4-92 456 120/2245/35 (RERATE 180/2610/47)			1	4.56			6,702.8
3-10	SENSOR TR4-OSIRIS-6 456			1	4.56			6,733.5
Other Downhole Equipment								
Run Date	Des			OD (in)	Top (ftKB)		Btm (ftKB)	
11/3/2014	1/4" Cap String			3/8	18.0		6,733.2	
Cement								
Conductor Cement, 1/30/2013								
String: Conductor, 121.00ftKB Cement Evaluation Results:								
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbi)		Top Measurement Method			
1	19.0	121.0			Circulated			
Surface Casing Cement, 2/2/2013								
String: Surface, 1,164.00ftKB Cement Evaluation Results: Success								
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbi)		Top Measurement Method			
1	19.0	1,164.0	150.0		Circulated			
Fluid		Amount (sacks)	Class	Dens (lb/gal)		Yield (ft³/sack)		
Lead		700	C	13.50		1.75		
Tail		350	C	13.70		1.68		
Intermediate Casing Cement, 2/6/2013								
String: Intermediate 1, 3,600.00ftKB Cement Evaluation Results: Success								
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbi)		Top Measurement Method			
1	19.0	3,600.0	180.0		Circulated			
Fluid		Amount (sacks)	Class	Dens (lb/gal)		Yield (ft³/sack)		
Lead		1,100	C	12.90		1.92		
Tail		350	C	14.80		1.32		
Intermediate 2 Casing Cement, 2/12/2013								
String: Intermediate 2, 7,481.00ftKB Cement Evaluation Results: Did not get cement to surface on first stage								
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbi)		Top Measurement Method			
1	5,018.0	7,481.0	0.0		Temperature Log			
Fluid		Amount (sacks)	Class	Dens (lb/gal)		Yield (ft³/sack)		
Lead		150	C	10.20		2.89		
Tail		100	H	13.00		1.67		
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbi)		Top Measurement Method			
2	3,200.0	5,018.0	0.0		Temperature Log			
Fluid		Amount (sacks)	Class	Dens (lb/gal)		Yield (ft³/sack)		
Lead		160	C	10.20		2.89		
Tail		100	C	14.80		1.33		



Schematic - Vertical Production

Well Name: POKER LAKE UNIT #423H
Field: Corral Canyon

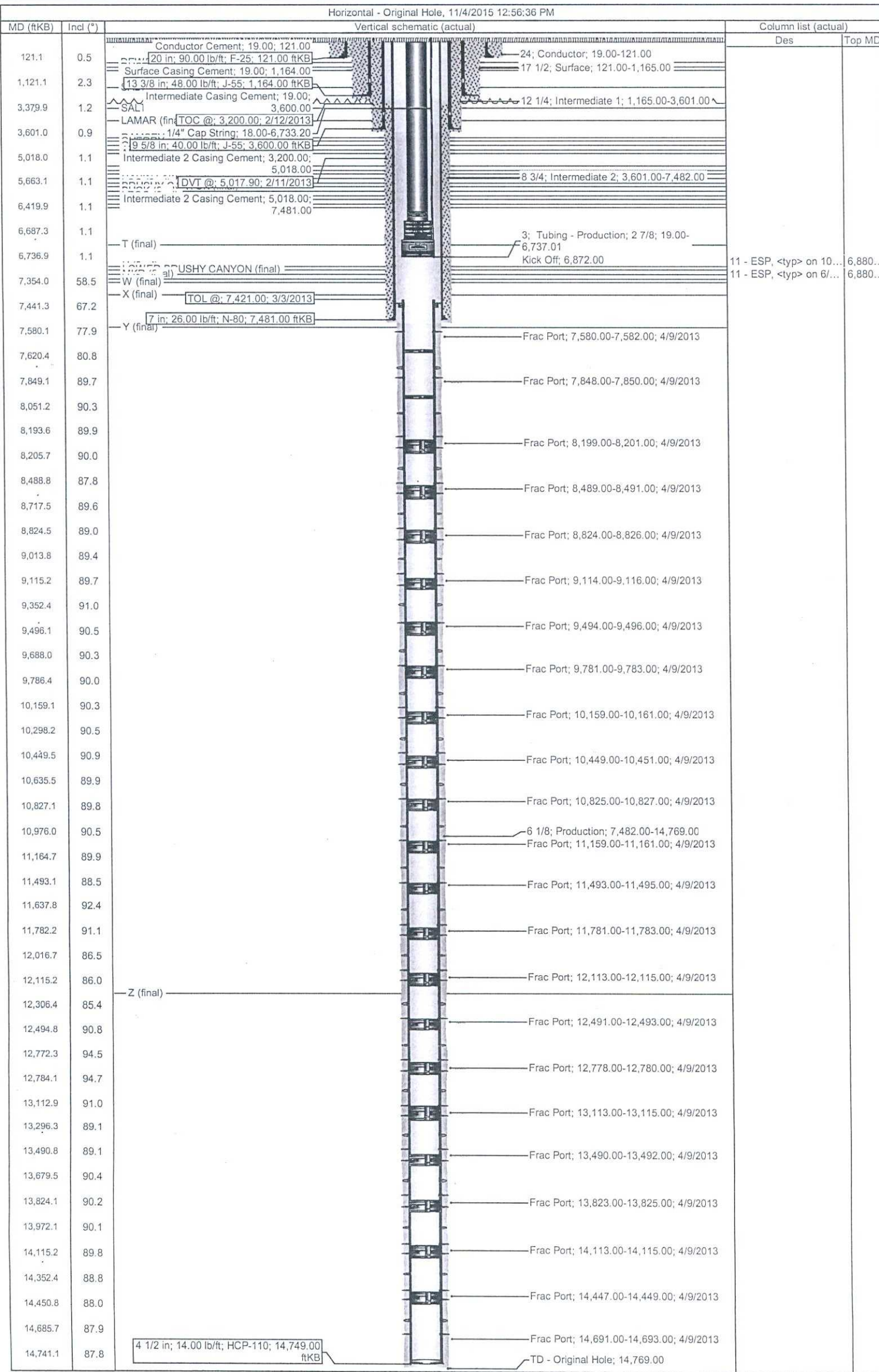
BOPCO, L.P. - West Texas

Well ID: 30-015-40710

Sect: 19 Town: 25S Rng: 30E Eddy Co., State: New Mexico
Blk: Survey:

Most Recent Job

Job Category Maintenance	Primary Job Type Sub Pump	Secondary Job Type pump repair	Job Start Date 10/31/2014	Job End Date 11/4/2014
-----------------------------	------------------------------	-----------------------------------	------------------------------	---------------------------



12:153
4:366

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

December 31, 2015

RECEIVED OOD

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 RR #009H (32-25-30)
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 a commercial producer in the Bone Spring 2 Shale. Should you be in agreement that the Bone Spring 2 Shale is 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,



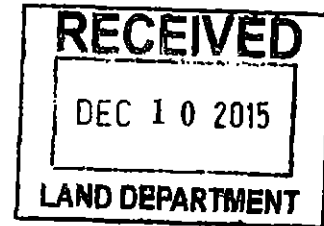
R. Travis Mears

Bureau of Land Management	New Mexico State Land Office	New Mexico Oil Conservation Division
By: _____	By: _____	By: _____
Its: _____	Its: _____	Its: _____
Date: _____	Date: _____	Date: _____



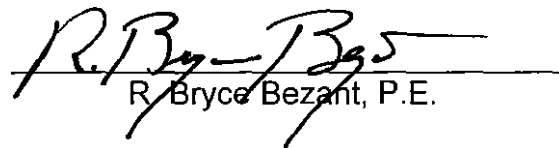
INTER-OFFICE MEMORANDUM

TO: Ross Sutton
FROM: Bryce Bezant
DATE: 12/04/2015
RE: Commercial Determination
PLU CVX JV RR #009H (32-25-30)
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 RR #009H was drilled in 2014 to a total depth of 17,306' laterally completed in the Bone Spring 2 Shale reservoir. The well is producing from perforations 10,143'-17,306'. On test 9/7/2014 the well flowed at the rate of 426 BOPD, 1110 MCFD, and 528 BWPD. This well has an expected recovery of approximately 431 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 RR #009H will be a commercial well and should be incorporated into a participating area.


R. Bryce Bezant, P.E.

RBB/tah

Cc: Travis Mears
Tom McCarthy
Steve Johnson

ECONOMIC PROJECTION

Date : 12/4/2015

Lior: 1004511

9:54:10AM

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

As Of Date : 06/01/2014

Lease Name : 1004511/PLU CVX JV RR/009H/2ND

Partner : All cases

Discount Rate (%) : 5.00

Reserv Cat. : Proved Producing

Case Type : LEASE CASE

1004511/PLU CVX JV RR/009H/2ND

Field : CORRAL CANYON; BONE SPRING, SO

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

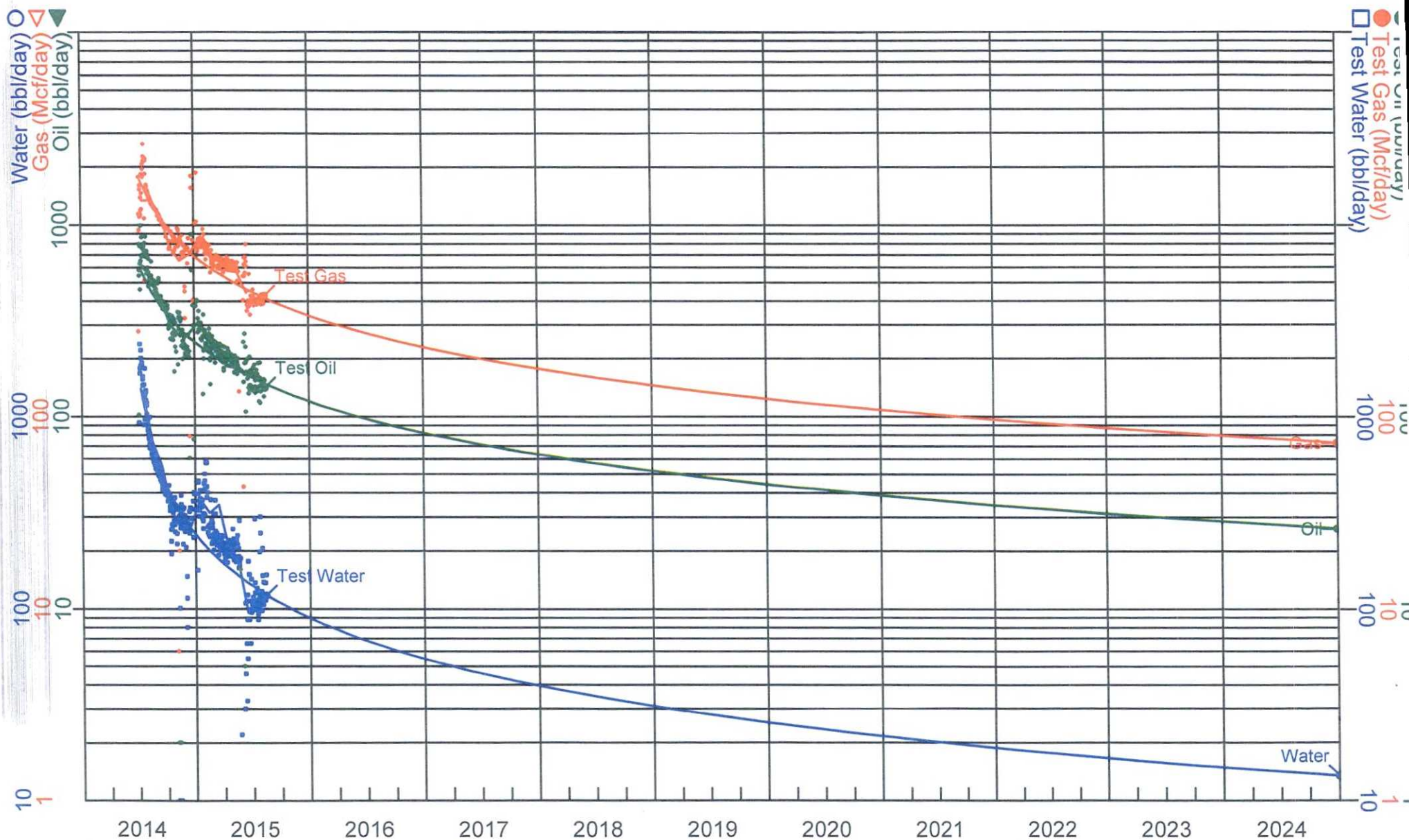
Year	Gross Wet Production		Gross Dry Gas & NGL		Sales		
	Oil (Mbbbl)	Wet Gas (MMcf)	Dry Gas (MMcf)	NGL (Mgal)	Oil (Mbbbl)	Gas (MMcf)	NGL (Mgal)
2014	69.181	171.437	97.548	665.176	60.632	85.494	582.979
2015	61.142	171.397	97.525	665.022	53.587	85.474	582.844
2016	36.019	100.663	57.277	390.572	31.568	50.199	342.308
2017	26.218	73.160	41.628	283.859	22.979	36.484	248.782
2018	20.901	58.278	33.160	226.117	18.319	29.062	198.175
2019	17.499	48.769	27.749	189.222	15.337	24.320	165.840
2020	15.158	42.230	24.029	163.851	13.285	21.059	143.604
2021	13.348	37.179	21.155	144.255	11.699	18.541	126.429
2022	11.981	33.366	18.985	129.459	10.501	16.639	113.462
2023	10.888	30.318	17.251	117.633	9.543	15.119	103.097

Rem	73.489	204.622	116.430	793.934	64.408	102.043	695.827
Total	355.826	971.418	552.737	3,769.101	311.856	484.434	3,303.348
Ult.	355.826	971.418					

Year	Average Price			Net Revenue			
	Oil (\$/bbl)	Gas (\$/Mcf)	NGL (\$/gal)	Oil (M\$)	Gas (M\$)	NGL (M\$)	Total (M\$)
2014	81.26	3.39	0.75	4,927.03	289.51	439.97	5,656.50
2015	44.64	2.30	0.42	2,392.06	196.94	242.04	2,831.04
2016	41.52	2.11	0.38	1,310.61	105.77	131.44	1,547.83
2017	45.37	2.38	0.38	1,042.59	86.98	95.53	1,225.10
2018	47.69	2.46	0.38	873.68	71.49	76.10	1,021.27
2019	49.50	2.53	0.38	759.14	61.42	63.68	884.24
2020	50.81	2.63	0.38	675.02	55.36	55.14	785.53
2021	51.58	2.74	0.38	603.42	50.88	48.55	702.85
2022	52.04	2.88	0.38	546.42	47.93	43.57	637.92
2023	52.42	3.02	0.38	500.24	45.65	39.59	585.48
Rem	52.92	3.47	0.38	3,408.29	353.87	267.19	4,029.36
Total	54.64	2.82	0.45	17,038.51	1,365.80	1,502.81	19,907.12

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\$)
2014	422.61	15.44	7,901.88	211.70	-2,895.12	-2,895.12	-2,926.28	-2,926.28
2015	230.97	8.43	0.00	273.29	2,318.35	-576.77	2,208.48	-717.81
2016	126.28	4.61	0.00	226.38	1,190.56	613.79	1,076.59	358.79
2017	99.95	3.65	0.00	215.30	906.19	1,519.98	780.31	1,139.10
2018	83.32	3.05	0.00	209.83	725.07	2,245.06	594.52	1,733.62
2019	72.14	2.64	0.00	206.54	602.93	2,847.98	470.79	2,204.40
2020	64.09	2.34	0.00	204.37	514.74	3,362.72	382.76	2,587.16
2021	57.34	2.10	0.00	202.76	440.66	3,803.38	312.04	2,899.20
2022	52.04	1.90	0.00	201.57	382.40	4,185.78	257.89	3,157.08
2023	47.77	1.75	0.00	200.65	335.32	4,521.10	215.37	3,372.45
Rem	328.73	12.02	0.00	2,192.67	1,495.93	1,495.93	799.83	799.83
Total	1,585.23	57.93	7,901.88	4,345.06	6,017.03	6,017.03	4,172.28	4,172.28

Major Phase :	Gas	Working Int :	1.00000000	Present Worth Profile (M\$)	
Perfs :	0 0	Revenue Int :	0.87642862		
Initial Rate :	41,351.00 Mcf/month	Disc. Initial Invest. (m\$) :	7,870.272	5.00% :	4,172.28
Abandonment :	901.77 Mcf/month	Internal ROR (%) :	39.26	9.00% :	3,159.93
Initial Decline :	96.60 % year b = 1.200	ROI Investment (disc/undisc) :	1.53 / 1.76	10.00% :	2,950.34
Seg Ratio :	0.45 bbl/Mcf	Years to Payout :	2.04	12.00% :	2,571.88
End Ratio :	0.36 bbl/Mcf	Abandonment Date :	02/04/2035	15.00% :	2,088.17
Forecast Start :	07/01/2014			20.00% :	1,448.12
		Initial	1st Rev.	30.00% :	557.99
		Working Interest : 1.00000000	0.00000000	40.00% :	-37.40
		Revenue Interest : 0.87642862	0.00000000	50.00% :	-468.49
		Rev. Date :		60.00% :	-797.96



NS0715 Oil (ARPs)
Segment: 1 of 1
Cum: 0 bbl
Rem: 384,817 bbl
EUR: 384,817 bbl
07/10/2014 - 04/30/2047
Qi: 17,844 / Qact: 18,606
Qf: 109
D: 96.000 / Dmin: 8.500
B: 1.20000

NS0715 Gas (ARPs)
Segment: 1 of 1
Cum: 0 Mcf
Rem: 1,052,147 Mcf
EUR: 1,052,147 Mcf
07/10/2014 - 04/30/2047
Qi: 51,708 / Qact: 41,351
Qf: 304
D: 96.600 / Dmin: 8.500
B: 1.20000

NS0715 Water (ARPs)
Segment: 1 of 1
Cum: 0 bbl
Rem: 310,084 bbl
EUR: 310,084 bbl
07/10/2014 - 04/30/2047
Qi: 42,453 / Qact: 41,754
Qf: 56
D: 99.995 / Dmin: 8.500
B: 1.00000

WORKSHEET FOR COMMERCIAL DETERMINATION AND PARTICIPATING AREA IN FEDERAL UNITS

WELL DATA

WELL PLU CVX JV ROSS RANCH #009H (32-25-30 2H) FORMATION BONE SPRING
 LOCATION UNIT, 595 FEET FROM SOUTH LINE & 440 FEET FROM EAST LINE
 SECTION 32 TOWNSHIP 25S RANGE 30E COUNTY Eddy NEW MEXICO
 SPUD DATE 4/13/2014 COMPLETION DATE 6/30/2014 INITIAL PRODUCTION 7/4/2014
 PERFORATIONS 10143-17306
 BHL: 2778' FSL & 491' FEL SEC 29 T25S R30E

STIMULATION:

ACID _____

 FRACTURE See Attached

POTENTIAL (9/7/2014): 426 BOPD, 1110 MCFPD, 528 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>
Porosity (Φ), %	<u>4.6%</u>	<u> </u>
Water saturation (Sw), %	<u>21%</u>	<u> </u>
Net Thickness (H), ft.	<u>239</u>	<u> </u>
Temperature (T), Fahrenheit	<u>151</u>	<u> </u>
Bottom Hole pressure (P), psia	<u>4,894</u>	<u> </u>
Recovery factor (RF), %	<u>12%</u>	<u> </u>
Recoverable oil, MBO *(See eq. below)	<u>684.7</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	<u>10/31/2015</u>	<u>117,886</u> BBL Oil	<u>303,964</u> MCF Gas
INITIAL RATE (qi)	<u>587 BOPD</u>		
ECONOMIC LIMIT (ql)	<u>3.6 BOPD</u>		
HYPERBOLIC DECLINE RATE, dy	<u>n = 1.2, d = 96%/yr</u>		
REMAINING MBO (Q) =	<u>238</u>		
ULTIMATE RECOVERABLE MBO	<u>356</u>		

(Attach plot showing proration unit and participating area.)

ECONOMIC

GROSS WELL COST \$3,160,750 (to the depth of formation completed)

COMPLETION COST \$4,741,125

GROSS TOTAL COST \$7,901,875

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>69.181</u>	<u>5656.5</u>	<u>649.8</u>	<u>-2926.3</u>
2	<u>61.142</u>	<u>2831.0</u>	<u>512.7</u>	<u>2208.5</u>
3	<u>36.019</u>	<u>1547.8</u>	<u>357.3</u>	<u>1076.6</u>
4	<u>26.218</u>	<u>1225.1</u>	<u>318.9</u>	<u>780.3</u>
5	<u>20.801</u>	<u>1021.3</u>	<u>296.2</u>	<u>594.5</u>
6	<u>17.499</u>	<u>884.2</u>	<u>281.3</u>	<u>470.8</u>
7	<u>15.158</u>	<u>785.5</u>	<u>270.8</u>	<u>382.8</u>
8	<u>13.348</u>	<u>702.9</u>	<u>262.2</u>	<u>312.0</u>
9	<u>11.981</u>	<u>637.9</u>	<u>255.5</u>	<u>257.9</u>
10	<u>10.888</u>	<u>585.5</u>	<u>250.2</u>	<u>215.4</u>
REMAINDER	<u>73.489</u>	<u>4029.4</u>	<u>2533.4</u>	<u>799.9</u>
TOTAL	<u>355.824</u>	<u>19907.1</u>	<u>5988.2</u>	<u>4172.3</u>

WELL IS COMMERCIAL

MAR 16 2015

RECEIVED

DEC 01 2014

Operator Copy

Form 3160-1
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

RECEIVED

WELL COMPLETION OR RECOMPLETION REPORT AND LOG PRODUCTION

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. NMNM71016X	
2. Name of Operator BOPCO LP		8. Lease Name and Well No. POKER LAKE UNIT CVX JV RR 009H	
3. Address P O BOX 2760 MIDLAND, TX 79702		9. API Well No. 30-015-42054	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SESE 395FSL 440FEL At top prod interval reported below SENE 32 T25S R30E Mer NMP At total depth SENE 29 T25S R30E Mer NMP At total depth SENE 2778FSL 491FEL		10. Field and Pool, or Exploratory CORRAL CANYON, BONE SPR, S	
14. Date Spudded 04/13/2014		15. Date T.D. Reached 05/11/2014	
16. Date Completed ☐ D & A ☒ Ready to Prod. 06/30/2014		17. Elevations (DF, KB, RT, GL)* 3172 GL	
18. Total Depth: MD 17306 TVD 10069		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) CNL/GR, 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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H40	48.0		1069		995	282	0	
11.000	8.625 J55	32.0		3650		1330	425	0	
7.875	5.500 HCP 110	17.0		17295	4970	1485	983	3260	

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	9360	9360						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) 2ND BONE SPRING	8615	17306	10143 TO 17306	0.410	480	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10143 TO 17254	FRAC DOWN CSG USING TOTAL 230079 BBLs FLUID, 5485339# PROPANT, CROSS 20 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
07/01/2014	09/07/2014	24	→	426.0	1110.0	528.0	44.0		FLOW FROM WELL
Choke Size	Thg. Press. Plog. 540	Csg. Press. 0.0	24 Hr. Rate	Oil BBL 426	Gas MCF 1110	Water BBL 528	Gas/Oil Ratio 2606	Well Status PCW	NOV 25 2014

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. Plog. 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 #261926 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

DECLARATION: OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

DUE 3/2/15

ACCEPTED FOR RECORD

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	Thg. Press. Flowg. 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	Thg. Press. Flowg. 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
BELL CANYON	3747	4679	SANDSTONE, SILTSTONE, SHALES	RUSTLER	977
CHERRY CANYON	4679	5686	SANDSTONE, SILTSTONE, SHALES	SALADO/T. SALT	1269
BRUSHY CANYON	5686	7472	SANDSTONE, SILTSTONE, SHALES	B. SALT	3525
BONE SPRING	7472	7724	LIMESTONE, SHALES, SANDSTONE	DELAWARE MTN GROUP	3679
U/L AVALON SHALE	7724	8406	LIMESTONE, SILTSTONE, SHALES	BONE SPRING	7472
1ST BONE SPR SAND	8406	8615	SANDSTONE, LIMESTONE	U. AVALON SHALE	7724
1ST BONE SPR SHALE	8615	8837	SHALE, SILTSTONE, LIMESTONE	1ST BONE SPR SAND	8406
2ND BONE SPR CARBONATE	8837		LIMESTONE	2ND BONE SPR	8837

32. Additional remarks (include plugging procedure):

****CONFIDENTIAL COMPLETION****

No open hole logs run.

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 #261926 Verified by the BLM Well Information System:
For BOPCO LP, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH HAM on 11/24/2014 ()

Name (please print) TRACIE J CHERRY

Title REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 09/08/2014

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.

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

DISTRICT I1825 S. French Dr., Hobbs, NM 88240
Phone: (505) 395-8181 Fax: (505) 395-0720**DISTRICT II**811 S. First St., Artesia, NM 88210
Phone: (505) 748-1385 Fax: (505) 748-9730**DISTRICT III**1000 Rio Bravo, Aztec, NM 87410
Phone: (505) 331-8178 Fax: (505) 331-8179**DISTRICT IV**1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3100 Fax: (505) 476-3102State 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 August 1, 2011

Submit one copy to appropriate
District Office**WELL LOCATION AND ACREAGE DEDICATION PLAT**AMENDED REPORT
"As Drilled"

30-015-42054	Pool Code 13354	Pool Name CORRAL CANYON; BONE SPRING, S
313372 Code	Property Name POKER LAKE UNIT CVX JV RR	Well Number 009H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3172'

Surface Location

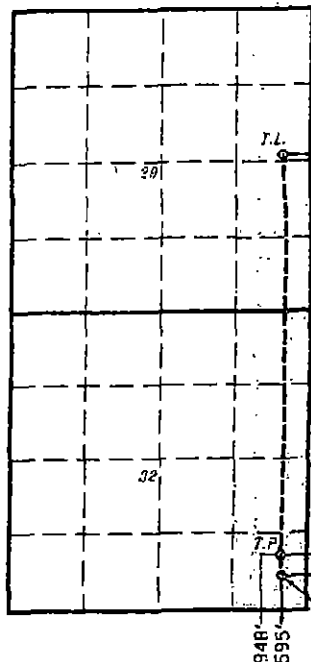
CL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	32	25 S	30 E		595'	SOUTH	440'	EAST	EDDY

Bottom Hole if Different From Surface

CL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	29	25 S	30 E		2778'	SOUTH	491'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
280			

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

**TERMINUS LOCATION**

Lat - N 32°06'04.43"
Long - W 103°53'45.17"
NMSPC - N 400826.1
E 635459.6
Depth 17306'
OAGD-271

TOP PERFORATION

Lat - N 32°04'53.66"
Long - W 103°53'44.93"
NMSPC - N 393674.2
E 635488.6
Depth 10143'
OAGD-271

SURFACE LOCATION

Lat - N 32°04'50.16"
Long - W 103°53'44.93"
NMSPC - N 393321.2
E 635510.8
Ground Elev. 3172'
OAGD-271

SCALE 1"=3000'

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 an undivided mineral interest in the land including the proposed bottom hole 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: *Tracie J Cherry* Date: 09/02/14

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.

AUGUST 25, 2014

Date Surveyed

Signature: *TIM C. PAPPAS*
Professional Surveyor

TIM C. PAPPAS

Certificate No.

NAIFF ASSOC., INC.

29714-HO.2

8 SEPT 2014



Downhole Profile - Vertical Wells

BOPCO, L.P. - West Texas

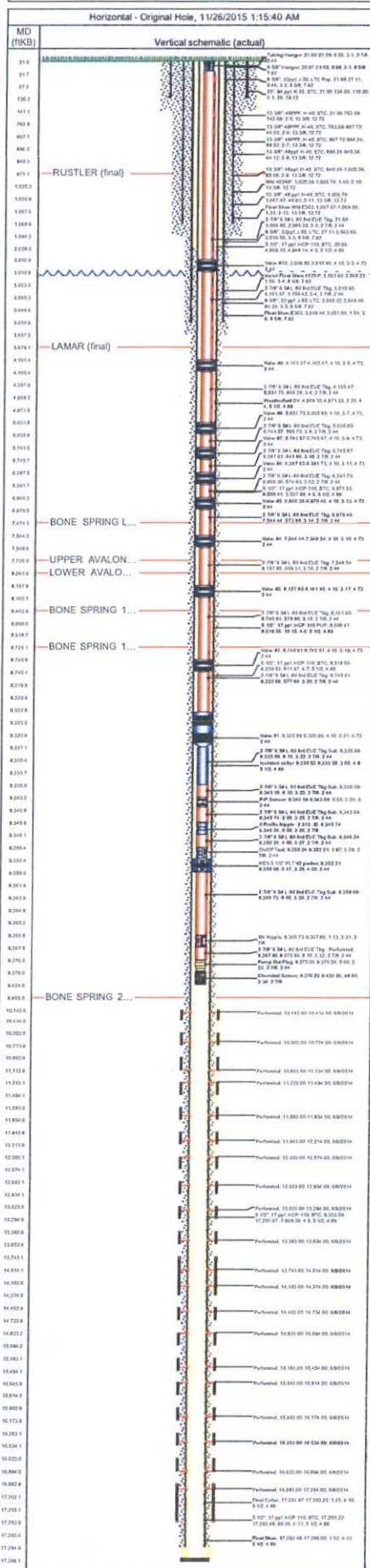
Well Name: POKER LAKE UNIT CVX JV RR #009H (32-25-30)

Well ID: 30-015-42054

Field: Corral Canyon

Sect: 32 Town: 25S Rng: 30E County: Eddy State: New Mexico

Surface Location: 595' FSL & 440' FEL Sec 32 T25S-R30E



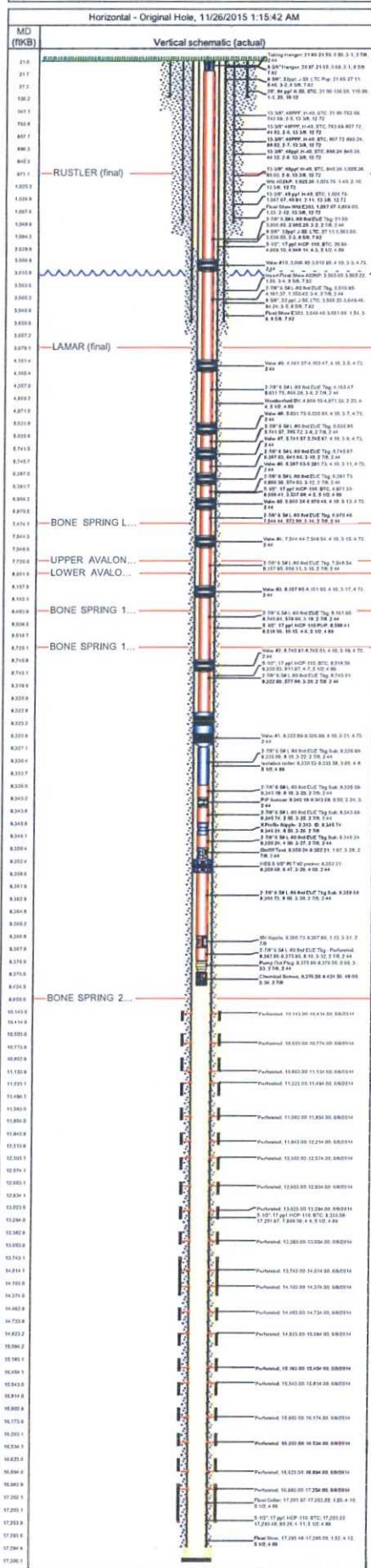
Well Information							
Orig KB Elev (ft)	Gr Elev (ft)	KB-Grd (ft)	Spud Date	On Production Date	PBTD (Alt) (ft)(KB)		
3,193.00	3,172.00	21.00	4/13/2014	7/2/2014	Original Hole - 17,306.0		
Kick Off depth (ft)(KB)							
Wellbore Name: Original Hole				Top Depth (ft)(KB): 9,592.0			
Size (in)		Act Top (ft)(KB)		Act Btm (ft)(KB)			
24				21.0		141.0	
17 1/2				141.0		1,094.0	
11				1,094.0		3,657.0	
7 7/8				3,657.0		17,306.0	
Schematic Annotations							
Type	Depth (ft)(KB)	Annotation					
Casing Strings							
Csg Des	Wellbore	OD (in)	Wt (lb/ft)	Grade	Top Thread	Set @ (ft)(KB)	Top (ft)(KB)
Conductor	Original Hole	20	94.00	K-55		136.00	21.0
Surface	Original Hole	13 3/8	48.00	H-40	ST&C	1,069.00	21.0
Intermediate 1	Original Hole	8 5/8	32.00	J-55	LT&C	3,651.00	21.0
Production	Original Hole	5 1/2	17.00	HCP-110	BTC&C	17,295.00	21.0
Perforations							
Perf Date	Top (ft)(KB)	Btm (ft)(KB)	Linked Zone	Current Status			
4/9/2015	9,362.0	9,363.0	2nd Bone Spring Shale, Original Hole	Active (9,362.0 - 9,363.0 ft)(KB)			
6/9/2014	10,143.0	10,144.0	2nd Bone Spring Shale, Original Hole	Active (10,323.0 - 10,324.0 ft)(KB)			
6/9/2014	10,503.0	10,774.0	2nd Bone Spring Shale, Original Hole	Active (10,503.0 - 10,504.0 ft)(KB)			
6/9/2014	10,863.0	11,134.0	2nd Bone Spring Shale, Original Hole	Active (11,043.0 - 11,044.0 ft)(KB)			
6/9/2014	11,223.0	11,494.0	2nd Bone Spring Shale, Original Hole	Active (11,313.0 - 11,314.0 ft)(KB)			
6/9/2014	11,583.0	11,854.0	2nd Bone Spring Shale, Original Hole	Active (11,583.0 - 11,584.0 ft)(KB)			
6/9/2014	11,943.0	12,214.0	2nd Bone Spring Shale, Original Hole	Active (12,213.0 - 12,214.0 ft)(KB)			
6/9/2014	12,303.0	12,574.0	2nd Bone Spring Shale, Original Hole	Active (12,393.0 - 12,394.0 ft)(KB)			
6/9/2014	12,663.0	12,934.0	2nd Bone Spring Shale, Original Hole	Active (12,663.0 - 12,664.0 ft)(KB)			
6/9/2014	13,023.0	13,294.0	2nd Bone Spring Shale, Original Hole	Active (13,293.0 - 13,294.0 ft)(KB)			
6/9/2014	13,383.0	13,654.0	2nd Bone Spring Shale, Original Hole	Active (13,383.0 - 13,384.0 ft)(KB)			
6/9/2014	13,743.0	14,014.0	2nd Bone Spring Shale, Original Hole	Active (13,743.0 - 13,744.0 ft)(KB)			
6/9/2014	14,103.0	14,374.0	2nd Bone Spring Shale, Original Hole	Active (14,283.0 - 14,284.0 ft)(KB)			
6/9/2014	14,463.0	14,734.0	2nd Bone Spring Shale, Original Hole	Active (14,733.0 - 14,734.0 ft)(KB)			
6/9/2014	14,823.0	15,094.0	2nd Bone Spring Shale, Original Hole	Active (15,093.0 - 15,094.0 ft)(KB)			
6/9/2014	15,183.0	15,454.0	2nd Bone Spring Shale, Original Hole	Active (15,453.0 - 15,454.0 ft)(KB)			
6/9/2014	15,543.0	15,814.0	2nd Bone Spring Shale, Original Hole	Active (15,813.0 - 15,814.0 ft)(KB)			
6/9/2014	15,903.0	16,174.0	2nd Bone Spring Shale, Original Hole	Active (15,993.0 - 15,994.0 ft)(KB)			
6/9/2014	16,263.0	16,534.0	2nd Bone Spring Shale, Original Hole	Active (16,263.0 - 16,264.0 ft)(KB)			
6/9/2014	16,623.0	16,894.0	2nd Bone Spring Shale, Original Hole	Active (16,713.0 - 16,714.0 ft)(KB)			
6/9/2014	16,983.0	17,254.0	2nd Bone Spring Shale, Original Hole	Active (17,163.0 - 17,164.0 ft)(KB)			
Tubing Strings							
Tubing Description		Run Date	String Length (ft)		Set Depth (ft)(KB)		
Tubing - Production		10/1/2015	9,403.50		9,424.50		
No.	Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Top (ft)(KB)	
3-1	Tubing Hanger	1	2 7/8			21.0	
3-2	2-7/8" 6.5# L-80 8rd EUE Tbg	93	2 7/8	6.50	L-80	21.5	
3-3	Valve #10	1	4.731			3,006.9	
3-4	2-7/8" 6.5# L-80 8rd EUE Tbg	36	2 7/8	6.50	L-80	3,011.0	
3-5	Valve #9	1	4.731			4,161.4	
3-6	2-7/8" 6.5# L-80 8rd EUE Tbg	27	2 7/8	6.50	L-80	4,165.5	
3-7	Valve #8	1	4.731			5,031.8	
3-8	2-7/8" 6.5# L-80 8rd EUE Tbg	22	2 7/8	6.50	L-80	5,035.9	
3-9	Valve #7	1	4.731			5,741.6	
3-10	2-7/8" 6.5# L-80 8rd EUE Tbg	20	2 7/8	6.50	L-80	5,745.7	
3-11	Valve #6	1	4.731			6,387.6	
3-12	2-7/8" 6.5# L-80 8rd EUE Tbg	18	2 7/8	6.50	L-80	6,391.7	
3-13	Valve #5	1	4.731			6,986.4	
3-14	2-7/8" 6.5# L-80 8rd EUE Tbg	18	2 7/8	6.50	L-80	6,970.5	
3-15	Valve #4	1	4.731			7,544.4	
3-16	2-7/8" 6.5# L-80 8rd EUE Tbg	19	2 7/8	6.50	L-80	7,548.5	
3-17	Valve #3	1	4.731			8,157.9	
3-18	2-7/8" 6.5# L-80 8rd EUE Tbg	18	2 7/8	6.50	L-80	8,162.0	
3-19	Valve #2	1	4.731			8,740.9	
3-20	2-7/8" 6.5# L-80 8rd EUE Tbg	18	2 7/8	6.50	L-80	8,745.0	
3-21	Valve #1	1	4.731			9,322.9	
3-22	2-7/8" 6.5# L-80 8rd EUE Tbg Sub	1	2 7/8	6.50	L-80	9,327.0	
3-23	2-7/8" 6.5# L-80 8rd EUE Tbg Sub	1	2 7/8	6.50	L-80	9,335.1	
3-24	PIP Sensor	1	3			9,343.2	
3-25	2-7/8" 6.5# L-80 8rd EUE Tbg Sub	1	2 7/8	6.50	L-80	9,347.3	
3-26	X Profile Nipple- 2.313- ID	1	2 7/8			9,345.7	
3-27	2-7/8" 6.5# L-80 8rd EUE Tbg Sub	1	2 7/8	6.50	L-80	9,346.2	
3-28	On/Off Tool	1	2 7/8			9,350.2	
3-29	HES 5-1/2" PLT V2 packer	1	4.6			9,352.2	
3-30	2-7/8" 6.5# L-80 8rd EUE Tbg Sub	1	2 7/8	6.50	L-80	9,358.7	
3-31	XN-Nipple	1	2 7/8			9,366.7	
3-32	2-7/8" 6.5# L-80 8rd EUE Tbg - Perforated	1	2 7/8	6.50	L-80	9,367.9	
3-33	Pump Out Plug	1	2 7/8		L-80	9,376.0	
3-34	Chemical Screen	2	2 7/8			9,376.6	
Other Downhole Equipment							
Run Date		Des	OD (in)	Top (ft)(KB)		Btm (ft)(KB)	
4/9/2015		Plunger	2.4	9,320.0		9,320.8	
4/9/2015		Bumper Spring	2.4	9,320.8		9,322.8	
4/9/2015		Tubing Stop	2.4	9,322.8		9,323.8	
4/9/2015		Bottom Hole Pressure Gauge	1.34	9,364.8		9,365.0	
Cement							
Conductor Cement, 4/14/2014							
String: Conductor, 136.00ftKB				Cement Evaluation Results: 165 Bbls of good cement circulated to surface			
Stage Number	Stage Top (ft)(KB)	Stage Bottom (ft)(KB)	Vol Cement Ret (bbl)	Top Measurement Method			
1	21.0	136.0		Volume Calculations			
Surface Casing Cement, 4/17/2014							
String: Surface, 1,069.00ftKB				Cement Evaluation Results: 165 Bbls of good cement circulated to surface			
Stage Number	Stage Top (ft)(KB)	Stage Bottom (ft)(KB)	Vol Cement Ret (bbl)	Top Measurement Method			
1	21.0	1,069.0		Volume Calculations			
Intermediate Casing Cement, 4/21/2014							
String: Intermediate 1, 3,651.00ftKB				Cement Evaluation Results: 90 Bbls of good cement to surface			
Stage Number	Stage Top (ft)(KB)	Stage Bottom (ft)(KB)	Vol Cement Ret (bbl)	Top Measurement Method			
1	21.0	3,651.0		90.0 Circulated			



Well ID: 30-015-42054

Sect: 32 Town: 25S Rng: 30E County: Eddy State: New Mexico

Fluid	Amount (sacks)	Class	Dens (lb/gal)	Yield (ft ³ /sack)
Lead	1,200	C	12.90	1.85
Tail	130	C	14.80	1.33



Fluid		Amount (sacks)	Class	Dens (lb/gal)	Yield (ft ³ /sack)
Lead		1,200	C	12.90	1.85
Tail		130	C	14.80	1.33

Production Casing Cement, 5/13/2014

String: Production, 17,295.00ftKB Cement Evaluation Results: No cement or red dye circulated from DV

Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method
1	4,358.0	17,295.0	0.0	Volume Calculations

Fluid		Amount (sacks)	Class	Dens (lb/gal)	Yield (ft ³ /sack)
Lead		460	C	11.90	2.27
Tail		1,455	H	14.50	1.21

Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)	Top Measurement Method
2	2,628.0	4,358.0	0.0	Volume Calculations

Fluid		Amount (sacks)	Class	Dens (lb/gal)	Yield (ft ³ /sack)
Lead		460	H	11.90	2.23
Tail		110	H	14.80	1.33



Schematic - Vertical Production

BOPCO, L.P. - West Texas

Well Name: POKER LAKE UNIT CVX JV RR #009H (32-25-30)

Well ID: 30-015-42054

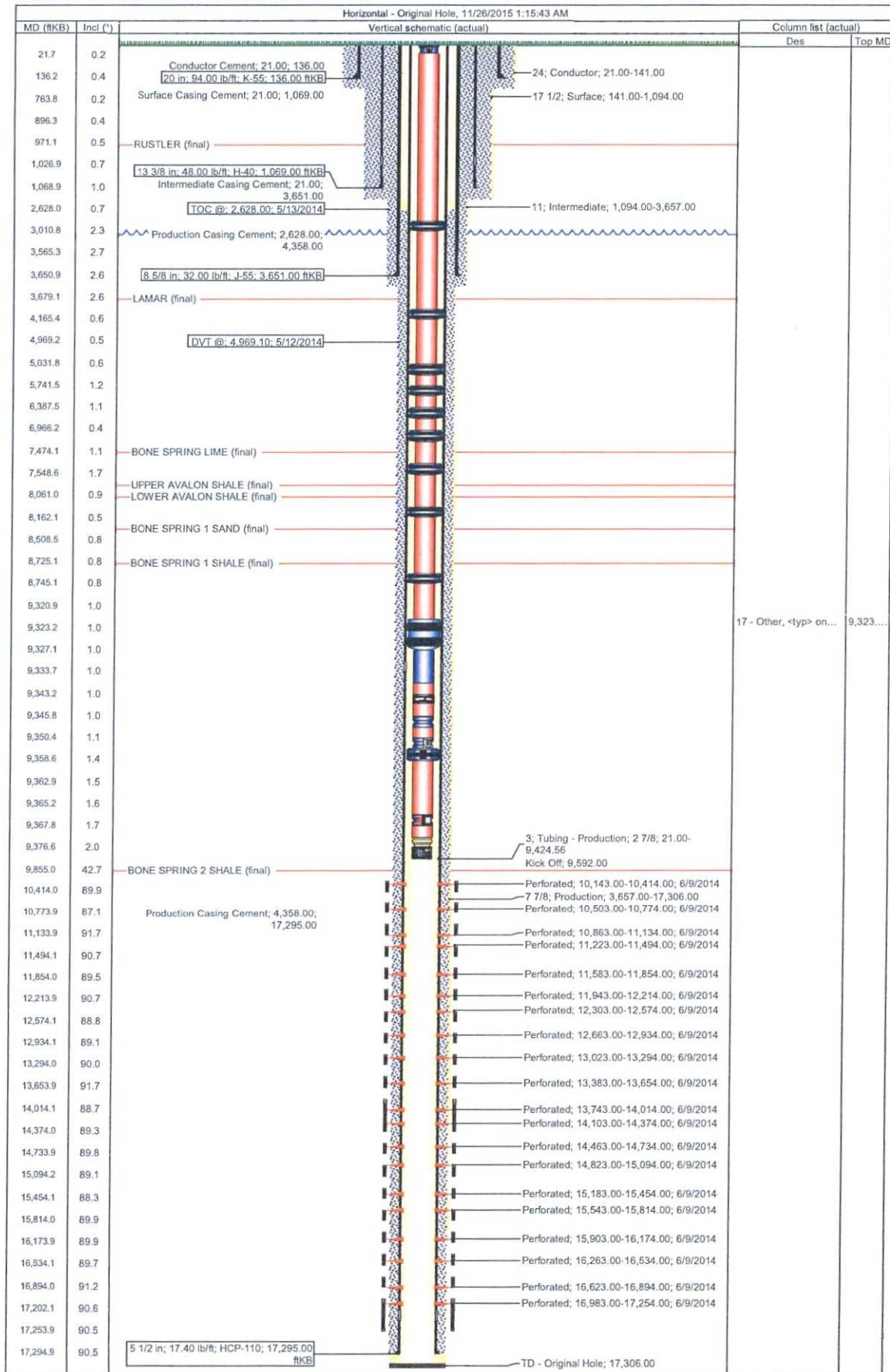
Field: Corral Canyon

Sect: 32 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
Workover/Maintenance	Swab Well		11/23/2015	11/25/2015



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

December 31, 2015

2/153
C: 366

RECEIVED OOD

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 #016H (PLU 443)
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 a commercial producer in the Bone Spring 2 Shale. Should you be in agreement that the Bone Spring 2 Shale is 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: _____

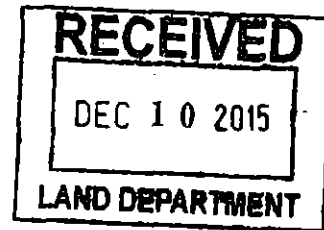
Date: _____

Date: _____



INTER-OFFICE MEMORANDUM

TO: Ross Sutton
FROM: Bryce Bezant
DATE: 12/03/2015
RE: Commercial Determination
PLU CVX JV PC #016H (PLU 443)
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 #016H was drilled in 2013 to a total depth of 16,590' laterally completed in the Bone Spring 2 Shale reservoir. The well is producing from perforations 10,211'-16,322'. On test 7/26/2013 the well flowed at the rate of 377 BOPD, 877 MCFD, and 1,800 BWPD. This well has an expected recovery of approximately 241 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 #016H will be a commercial well and should be incorporated into a participating area.


R. Bryce Bezant, P.E.

RBB/tah

Cc: Travis Mears
Tom McCarthy
Steve Johnson

ECONOMIC PROJECTION

Date : 12/9/2015

Lior: 1000636

4:16:06PM

Project Name : Exp of BOPCO0715 Final Combined Dat

As Of Date : 04/01/2013

Lease Name : 1000636/PLU CVX JV PC/016H/2ND

Partner : All cases

Discount Rate (%) : 9.00

Reserv Cat : Proved Producing

Case Type : LEASE CASE

Field : PIERCE CROSSING (BONE SPRING), E.

Archive Set : BOPCO 12/2015

1000636/PLU CVX JV PC/016H/2ND

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

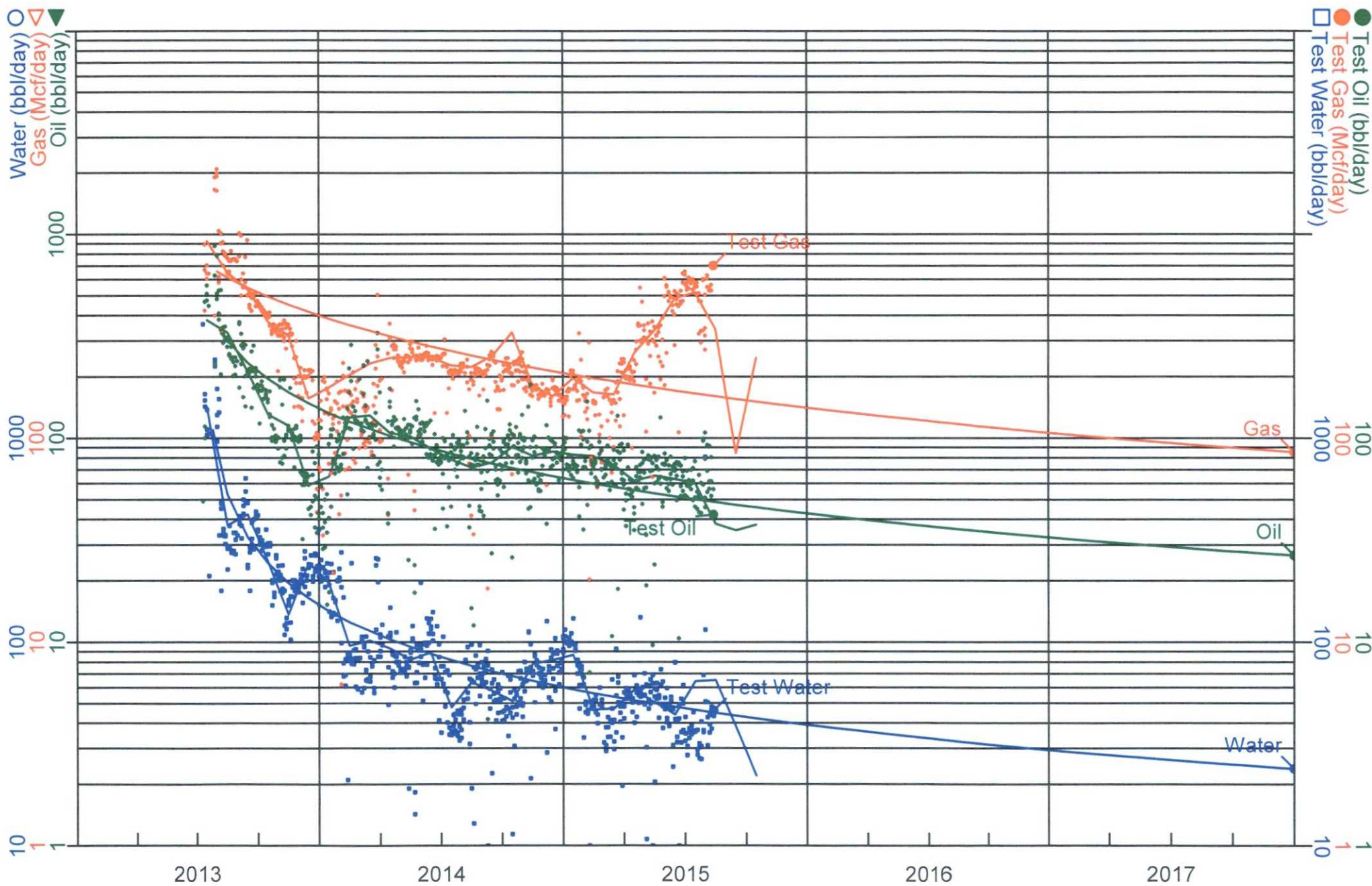
Year	Gross Wet Production		Gross Dry Gas & NGL		Sales		
	Oil (Mbbbl)	Wet Gas (MMcf)	Dry Gas (MMcf)	NGL (Mgal)	Oil (Mbbbl)	Gas (MMcf)	NGL (Mgal)
2013	31.716	76.678	43.630	241.536	30.891	42.495	235.256
2014	32.431	80.789	45.969	254.485	31.588	44.774	247.869
2015	20.607	93.476	53.188	294.450	20.072	51.805	286.794
2016	13.584	44.490	25.315	140.142	13.231	24.656	136.498
2017	10.722	34.596	19.685	108.978	10.443	19.173	106.145
2018	8.940	28.370	16.143	89.366	8.708	15.723	87.042
2019	7.703	24.048	13.683	75.750	7.502	13.327	73.780
2020	6.807	20.924	11.906	65.909	6.630	11.596	64.196
2021	6.083	18.430	10.486	58.053	5.924	10.214	56.544
2022	5.522	16.505	9.392	51.992	5.378	9.147	50.640

Rem	52.326	134.496	76.528	423.661	50.966	74.538	412.646
Total	196.441	572.801	325.924	1,804.322	191.333	317.449	1,757.409
Ult.	196.441	572.801					

Year	Average Price			Net Revenue			
	Oil (\$/bbl)	Gas (\$/Mcf)	NGL (\$/gal)	Oil (M\$)	Gas (M\$)	NGL (M\$)	Total (M\$)
2013	93.98	3.08	0.75	2,903.03	130.72	176.44	3,210.20
2014	84.66	3.68	0.81	2,674.09	164.57	200.50	3,039.16
2015	45.69	2.35	0.40	917.09	121.52	115.57	1,154.18
2016	43.89	2.30	0.40	580.71	56.75	54.13	691.59
2017	47.48	2.54	0.40	495.85	48.63	42.09	586.57
2018	49.89	2.60	0.40	434.43	40.91	34.52	509.86
2019	51.70	2.66	0.40	387.88	35.47	29.26	452.61
2020	53.05	2.76	0.40	351.68	32.06	25.46	409.19
2021	53.76	2.89	0.40	318.51	29.48	22.42	370.40
2022	54.25	3.02	0.40	291.76	27.62	20.08	339.45
Rem	54.86	3.40	0.40	2,795.82	253.68	163.63	3,213.13
Total	63.51	2.97	0.50	12,150.83	941.42	884.08	13,976.33

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 9.00 % (M\$)	Cum. Disc. CF 9.00 % (M\$)
2013	207.38	7.62	6,517.93	216.11	-3,738.85	-3,738.85	-3,839.77	-3,839.77
2014	247.43	9.06	0.00	392.27	2,390.39	-1,348.46	2,156.70	-1,683.08
2015	94.75	3.43	0.00	191.88	864.11	-484.35	717.05	-966.03
2016	56.53	2.06	0.00	184.14	448.86	-35.49	339.76	-626.27
2017	47.92	1.75	0.00	180.61	356.29	320.80	247.39	-378.87
2018	41.62	1.52	0.00	178.45	288.26	609.07	183.61	-195.26
2019	36.93	1.35	0.00	176.97	237.36	846.42	138.70	-56.57
2020	33.38	1.22	0.00	175.90	198.69	1,045.11	106.51	49.94
2021	30.21	1.11	0.00	175.05	164.03	1,209.14	80.66	130.61
2022	27.69	1.01	0.00	174.39	136.36	1,345.51	61.52	192.13
Rem	261.84	9.60	0.00	2,805.67	136.03	136.03	114.07	114.07
Total	1,085.69	39.73	6,517.93	4,851.45	1,481.54	1,481.54	306.19	306.19

Major Phase :	Gas	Working Int :	1.00000000	Present Worth Profile (M\$)	
Perfs :	0 0	Revenue Int :	0.97400000		
Initial Rate :	16.617.00 Mcf/month	Disc. Initial Invest. (m\$) :	6,517.930	5.00% :	789.30
Abandonment :	304.17 Mcf/month	Internal ROR (%) :	11.92	9.00% :	306.19
Initial Decline :	78.14 % year b = 1.000	ROI Investment (disc/undisc) :	1.05 / 1.23	10.00% :	197.05
Beg Ratio :	0.41 bbl/Mcf	Years to Payout :	3.84	12.00% :	-8.01
End Ratio :	0.50 bbl/Mcf	Abandonment Date :	05/07/2039	15.00% :	-285.33
Forecast Start :	07/01/2013			20.00% :	-679.47
		Initial	1st Rev.	30.00% :	-1,283.65
		Working Interest :	0.00000000	40.00% :	-1,729.44
		Revenue Interest :	0.97400000	50.00% :	-2,076.50
		Rev. Date :		60.00% :	-2,357.29



Proj Gas Cum: 0.00 MMcf

Gas Rem: 572.80 MMcf

Gas EUR: 572.80 MMcf

Proj Oil Cum: 0.00 Mbbl

Oil Rem: 196.44 Mbbl

Oil EUR: 196.44 Mbbl

WORKSHEET FOR COMMERCIAL DETERMINATION AND PARTICIPATING AREA IN FEDERAL UNITS

WELL DATA

WELL PLU CVX JV PIERCE CANYON #016H (PLU 443) FORMATION BONE SPRING
 LOCATION UNIT, 791 FEET FROM SOUTH LINE & 2262 FEET FROM EAST LINE
 SECTION 16 TOWNSHIP 24S RANGE 30E COUNTY Eddy NEW MEXICO
 SPUD DATE 5/17/2013 COMPLETION DATE 7/10/2013 INITIAL PRODUCTION 9/8/2013
 PERFORATIONS 10211-16322
 BHL: 883' FNL & 2058' FEL SEC 31 T24S R30E

STIMULATION:

ACID See Attached
 FRACTURE See Attached

POTENTIAL (7/26/2013): 377 BOPD, 877 MCFPD, 1800 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>
Porosity (Φ), %	<u>4.6%</u>	<u></u>
Water saturation (Sw), %	<u>21%</u>	<u></u>
Net Thickness (H), ft.	<u>239</u>	<u></u>
Temperature (T), Fahrenheit	<u>151</u>	<u></u>
Bottom Hole pressure (P), psia	<u>4,894</u>	<u></u>
Recovery factor (RF), %	<u>12%</u>	<u></u>
Recoverable oil, MBO *(See eq. below)	<u>684.7</u>	<u></u>

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

Formula = $((7758 \text{ rb/ac-ft}) (por) (1-Sw)/(Boi \text{ rbo/stb})(RF)(A) (h))/1000 \text{ bo/Mbo}$ 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 82,082 BBL Oil 242,139 MCF Gas

INITIAL RATE (qi) 142 BOPD

ECONOMIC LIMIT (ql) 2.6 BOPD

HYPERBOLIC DECLINE RATE, dy n = 1.0, d = 99%/yr

REMAINING MBO (Q) = 114

ULTIMATE RECOVERABLE MBO 196

(Attach plot showing proration unit and participating area.)

ECONOMIC

GROSS WELL COST \$3,910,758 (to the depth of formation completed)

COMPLETION COST \$2,607,172

GROSS TOTAL COST \$6,517,930

YEAR	GROSS OIL MBO	BFIT NET INCOME (\$M)	OPERATING COST (\$M) INCL SEV & AD VAL TAX	5% NET BFIT DISCOUNTED CASH FLOW
ZERO				
1	31.716	3210.2	431.1	-3839.8
2	32.431	3039.2	648.8	2156.7
3	20.607	1154.2	290.1	717.1
4	13.584	691.6	242.7	339.8
5	10.722	586.6	230.3	247.4
6	8.940	509.9	221.6	183.6
7	7.703	452.6	215.3	138.7
8	6.807	409.2	210.5	106.5
9	6.083	370.4	206.4	80.7
10	5.522	339.5	203.1	61.5
REMAINDER	52.326	3213.1	3077.1	114.1
TOTAL	196.441	13976.3	5976.9	306.2

WELL IS COMMERCIAL

Confidential

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OGP Artesia

RECEIVED

AUG 20 2013

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

WELL COMPLETION OR RECOMPLETION REPORT

5. Lease Serial No.
NMLC069627A

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
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

Contact: TRACIE CHERRY
E-Mail: tjcherry@basspet.com

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

3. Address
MIDLAND, TX 79702

3a. Phone No. (include area code)
Ph: 432-221-7379

8. Lease Name and Well No.
POKER LAKE UNIT 443H

9. API Well No.
30-015-41198-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface Sec 19 T24S R30E Mer NMP
SWSE 791FSL 2262FEL
At top prod interval reported below Sec 19 T24S R30E Mer NMP
SWSE 196FSL 2292FEL
At total depth Sec 31 T24S R30E Mer NMP
NWNE 883FNL 2058FEL

10. Field and Pool, or Exploratory
PIERCE CROSSING

11. Sec., T., R., M., or Block and Survey
or Area Sec 19 T24S R30E Mer NMP

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
05/17/2013

15. Date T.D. Reached
06/10/2013

16. Date Completed
☐ D & A ☒ Ready to Prod.
07/10/2013

17. Elevations (DF, KB, RT, GL)*
3155 GL

18. Total Depth: MD
TVD 16590
9788

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 POROSITY RESISTIVITY SPECTRALGR CALIPER RESISTIVITY 17.500

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 J-55	61.0	0	972		1010		0	
11.000	8.625 J-55	32.0	0	4074		1375		0	
7.875	5.500 HCP-110	17.0	0	13996	4766	2300		2550	

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	9181							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) 1ST BONE SPRING	8205	8488	10211 TO 16322	0.570	312	OPEN
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
10211 TO 16322	# sand, 72580 bbls fluid to include 136038 gal 15% HCL

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
07/12/2013	07/26/2013	24	→	377.0	877.0	1800.0	41.7	0.82	ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→	377	877	1800	2326	POW	

ACCEPTED FOR RECORD

AUG 18 2013

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
07/12/2013	08/02/2013	24	→	531.0	1039.0	1561.0	43.7	0.81	ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→	531	1039	1561	1957	POW	

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

ELECTRONIC SUBMISSION #216550 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

RECLAMATION
DUE 1-10-14

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 BASE OF SALT BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING	180 3186 3426 4328 5580 7212

32. Additional remarks (include plugging procedure):

PLEASE HOLD CONFIDENTIAL

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 #216550 Verified by the BLM Well Information System.
For BOPCO LP, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 08/13/2013 (13KMS7037SE)

Name (please print) TRACIE CHERRYTitle REGULATORY ANALYSTSignature (Electronic Submission)Date 08/09/2013

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.

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

District I
1635 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 30-015-41198	² Pool Code 96473	³ Pool Name Pierce Crossing; Bone Spring; East
⁴ Property Code 313369	⁵ Property Name Poker Lake Unit CVX JV PC	⁶ Well Number 16H
⁷ OGRID No. 260737	⁸ Operator Name BOPCO, LP	⁹ Elevation 3155

" Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	16	24S	30E		791	South	2262	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
B	31	24S	30E		883	North	2058	East	Eddy

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
160			

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.

	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>04/04/14</i> Tracie J Cherry Printed Name tjcherry@basspel.com E-mail Address
	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

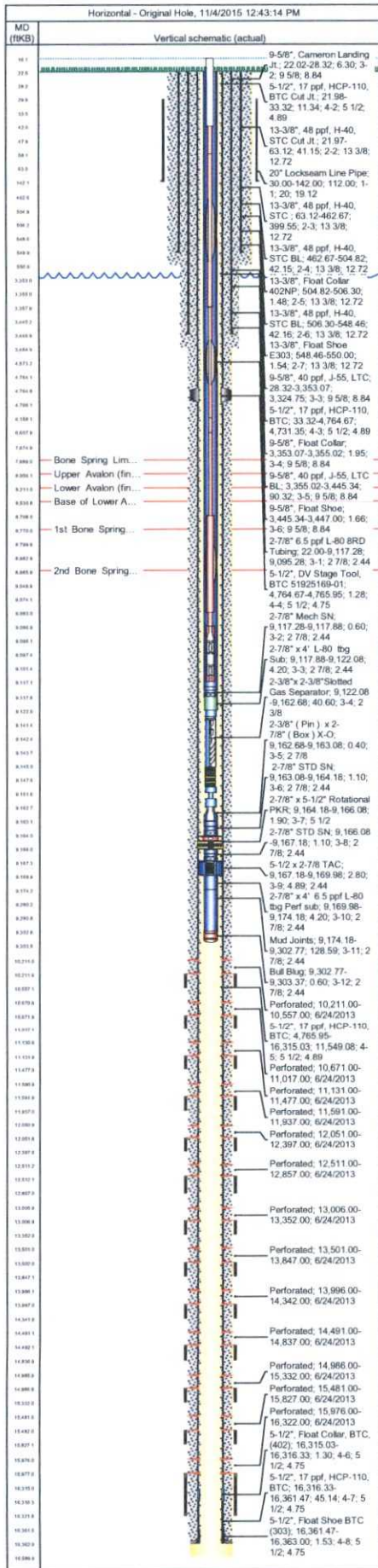
Well Name: POKER LAKE UNIT CVX JV PC #016H (19-24-30)

Well ID: 30-015-41198

Field: Nash Draw (Del, BS, AV)

Sect: 19 Town: 24S Rng: 30E County: Eddy State: New Mexico

Surface Location: 791' FSL & 2262' FEL, Sec 19, T24S-R30E



Well Information									
Orig KB Elev (ft)	Gr Elev (ft)	KB-Grd (ft)	Spud Date	On Production Date	PSTD (Alt) (ftKB)				
3,177.00	3,155.00	22.00	5/17/2013	7/10/2013					
Kick Off depth (ftKB)									
Wellbore Name: Original Hole				Top Depth (ftKB): 7,902.0					
Size (in)		Act Top (ftKB)			Act Blm (ftKB)				
17 1/2		22.0						551.0	
12 1/4		551.0						3,465.0	
8 3/4		3,465.0						16,590.0	
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		142.00	30.0		
Surface	Original Hole	13 3/8	48.00	H-40	ST&C	550.00	22.0		
Intermediate 1	Original Hole	9 5/8	40.00	J-55	L7&C	3,447.00	22.0		
Production	Original Hole	5 1/2	17.00	HCP-110	Buttruss	16,363.00	22.0		
Perforations									
Perf Date	Top (ftKB)	Blm (ftKB)	Linked Zone			Current Status			
6/24/2013	10,211.0	10,557.0	2nd Bone Spring, Original Hole			Active (10,211.0 - 10,212.0 ftKB)			
6/24/2013	10,671.0	11,017.0	2nd Bone Spring, Original Hole			Active (10,671.0 - 10,672.0 ftKB)			
6/24/2013	11,131.0	11,477.0	2nd Bone Spring, Original Hole			Active (11,131.0 - 11,132.0 ftKB)			
6/24/2013	11,591.0	11,937.0	2nd Bone Spring, Original Hole			Active (11,591.0 - 11,592.0 ftKB)			
6/24/2013	12,051.0	12,397.0	2nd Bone Spring, Original Hole			Active (12,051.0 - 12,052.0 ftKB)			
6/24/2013	12,511.0	12,857.0	2nd Bone Spring, Original Hole			Active (12,511.0 - 12,512.0 ftKB)			
6/24/2013	13,006.0	13,352.0	2nd Bone Spring, Original Hole			Active (13,006.0 - 13,007.0 ftKB)			
6/24/2013	13,501.0	13,847.0	2nd Bone Spring, Original Hole			Active (13,501.0 - 13,502.0 ftKB)			
6/24/2013	13,996.0	14,342.0	2nd Bone Spring, Original Hole			Active (13,996.0 - 13,997.0 ftKB)			
6/24/2013	14,491.0	14,837.0	2nd Bone Spring, Original Hole			Active (14,491.0 - 14,492.0 ftKB)			
6/24/2013	14,986.0	15,332.0	2nd Bone Spring, Original Hole			Active (14,986.0 - 14,987.0 ftKB)			
6/24/2013	15,481.0	15,827.0	2nd Bone Spring, Original Hole			Active (15,481.0 - 15,482.0 ftKB)			
6/24/2013	15,976.0	16,322.0	2nd Bone Spring, Original Hole			Active (15,976.0 - 15,977.0 ftKB)			
Tubing Strings									
Tubing Description		Run Date	String Length (ft)		Set Depth (ftKB)				
Tubing - Production		4/7/2014	9,281.37		9,303.37				
No.	Item Des		Jts	OD (in)	Wt (lb/ft)	Grade	Top (ftKB)		
3-1	2-7/8" 6.5 ppf L-80 BRD Tubing		283	2 7/8	6.50	L-80	22.0		
3-2	2-7/8" Mech SN		1	2 7/8			9,117.3		
3-3	2-7/8" x 4" L-80 tbg Sub		1	2 7/8	6.50		9,117.9		
3-4	2-3/8"x 2-3/8" Slotted Gas Separator		1	2 3/8			9,122.1		
3-5	2-3/8" (Pin) x 2-7/8" (Box) X-O		1	2 7/8			9,162.7		
3-6	2-7/8" STD SN		1	2 7/8			9,163.1		
3-7	2-7/8" x 5-1/2" Rotational PKR		1	5 1/2			9,164.2		
3-8	2-7/8" STD SN		1	2 7/8	6.50		9,166.1		
3-9	5-1/2 x 2-7/8 TAC		1	4.892			9,167.2		
3-10	2-7/8" x 4" 6.5 ppf L-80 tbg Perf sub		1	2 7/8	6.50	L-80	9,170.0		
3-11	Mud Joints		4	2 7/8	6.50	L-80	9,174.2		
3-12	Bull Plug		1	2 7/8			9,302.8		
Rod Strings									
Rod Description		Run Date	String Length (ft)		Set Depth (ftKB)				
Rod-proposed		12/10/2013	9,052.00		9,074.00				
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			22.0		
1-2	7/8" x 25' Tenaris MMS Steel sucker rod		181	1			48.0		
1-3	3/4" x 25' Tenaris MMS Steel Sucker Rod		124	7/8			4,573.0		
1-4	5/8" x 25' Tenaris MMS Steel Sucker Rod		45	3/4			7,675.0		
1-5	1-5/8" x 25' API C sucker bars		10	1 5/8			8,800.0		
1-6	2-1/2" x 1-3/4" x 24' RHBM-HVR- Panacea		1	2 1/2			9,050.0		
Rod Description		Run Date	String Length (ft)		Set Depth (ftKB)				
Rod		4/8/2014	9,101.00		9,117.00				
Item #	Item Des		Jts	OD (in)	Wt (lb/ft)	Grade	Top (ftKB)		
2-1	1-1/2" x 26' Polished Rod		1	1 1/2			16.0		
2-2	1" x 2" 1" x 6" 1" x 8" Pony Rod		3	1		D 97	42.0		
2-3	1" x 25' Tenaris MMS Rods Guided		133	1		D 97	58.0		
2-4	7/8" x 25' Tenaris MMS Rods		112	7/8		D 97	3,358.0		
2-5	3/4" x 25' Tenaris MMS rods		18	3/4			6,158.0		
2-6	3/4" x 25' Tenaris MMS w/4 Guides/rod		84	3/4		D 97	6,608.0		
2-7	1.5" x 25' Tenaris Sinker bars		15	1 1/2			8,708.0		
2-8	1" x 4' Stabilizer Bar w/3/4" pin		1	1		D 97	9,083.0		
2-9	2-1/2" x 1-3/4" x 10' x 30' Panacea		1	1 3/4			9,087.0		
Cement									
Surface Casing Cement , 5/18/2013									
String: Surface, 550.00ftKB Cement Evaluation Results:									
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)		Top Measurement Method				
1	22.0	550.0	30.0		Circulated				
Fluid		Amount (sacks)	Class	Dens (lb/gal)		Yield (ft ³ /sack)			
Lead		650	C	14.80		1.33			
Tail									
Intermediate Casing Cement , 5/22/2013									
String: Intermediate 1, 3,447.00ftKB Cement Evaluation Results:									
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)		Top Measurement Method				
1	22.0	3,447.0	343.0		Circulated				
Fluid		Amount (sacks)	Class	Dens (lb/gal)		Yield (ft ³ /sack)			
Lead		1,600	C	12.90		1.85			
Tail		370	C	14.80		1.33			
Production Casing Cement , 6/13/2013									
String: Production, 16,363.00ftKB Cement Evaluation Results:									
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)		Top Measurement Method				
1	4,764.0	16,363.0	40.0		Circulated				
Fluid		Amount (sacks)	Class	Dens (lb/gal)		Yield (ft ³ /sack)			
Lead		660	H	11.20		2.50			
Tail		1,920	H	14.20		1.27			
Stage Number	Stage Top (ftKB)	Stage Bottom (ftKB)	Vol Cement Ret (bbl)		Top Measurement Method				
2	22.0	4,764.0	0.0		Volume Calculations				
Fluid		Amount (sacks)	Class	Dens (lb/gal)		Yield (ft ³ /sack)			
Lead		350	C	11.90		2.43			
Tail		100	C	14.80		1.33			



Schematic - Vertical Production

BOPCO, L.P. - West Texas

Well Name: POKER LAKE UNIT CVX JV PC #016H (19-24-30)

Well ID: 30-015-41198

Field: Nash Draw (Del, BS, AV)

Sect: 19 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	Lift Change	Other	4/4/2014	4/9/2014

