

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

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

2. Name of Operator
BOPCO, L. P.

3a Address
P. O. Box 2760, Midland, TX 79702

3b Phone No (include area code)
432-683-2277

4 Location of Well (Footage, Sec., T., R.; M., or Survey Description)

Surface: NESE, UL N, 2,590' FSL, 1,670' FWL, Sec 4, T24S-R30E Lat N32.2465, Lg W103.888986
Bottom Hole: 900' FSL, 2,050' FEL, Sec 10, T24S, R30E, Lat N32.227414, Lg W103.866383

5 Lease Serial No

LC 068431; LC068905

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

NMNM71016X

8. Well Name and No

Poker Lake Unit #320H

9 API Well No.

30-015-39810

10 Field and Pool, or Exploratory Area

Poker Lake (Delaware) NW

11. County or Parish, State

Eddy County New Mexico

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☒ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BOPCO, L.P. respectfully requests approval to set surface casing on the PLU 320H at approximately 750' based on the direct offset the PLU 319H which set surface casing @ 724'. The 13-3/8" casing will be set atleast 25' in to the Rustler formation. If salt is encountered before 750' we will 25' above the salt.

BOPCO, L.P. respectfully requests approval to set the 7" casing @ 7,734' MD (7,539'TVD). The 7" casing will be set in the LBC 8A formation after placing a 200' hold @ 60 degrees. The 7" casing will be cemented to surface with a DV Tool @ approximately 5,000'. Directional Plan attached.

Cement Blends:

Stage 1: Lead 150 sks Tuned Light" 10.2 ppg, 2.70 ft3/sk, 12.19 gal/sk" (0.75lbm/sk CFR-3, 1.5 lbm/sk Salt, 0.25 lbm/sk Poly-E-Flake)
Tail 100 sks Versa Cem" 13 ppg, 1.67 ft3/sk, 8.84 gal/sk" (0.5% Halad R-344, 0.4% CFR-3, 1 lbm/sk Salt)

Stage 2: Lead 330 sks Tuned Light" 10.2 ppg, 2.70 ft3/sk, 12.19 gal/sk" (0.75lbm/sk CFR-3, 1.5 lbm/sk Salt, 0.25 lbm/sk Poly-E-Flake)
Tail 50 sks HalCem C" 14.8 ppg, 1.33ft3/sk, 6.34 gal/sk"

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Accepted for record

NMOC D

14 I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Stephen Ordoyno

Title Drilling Engineer

Signature

Stephen Ordoyno

Date

8/31/12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

AUG 31 2012

WESLEY W. INGRAM
PETROLEUM ENGINEER

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.

(Instructions on page 2)

BOPCO, L.P.

Poker Lake Unit 320H
Eddy Co, NM



Weatherford

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	134.57	0.00	0.00	0.00	0.00	0.00	0.00	
2	6943.06	0.00	134.57	6943.06	0.00	0.00	0.00	0.00	0.00	
3	7543.06	60.00	134.57	7439.26	-201.04	204.09	10.00	134.57	286.48	
4	7743.06	60.00	134.57	7539.26	-322.59	327.48	0.00	0.00	459.68	
5	8038.87	89.58	134.57	7616.00	-520.69	528.58	10.00	0.00	741.97	
6	14186.88	89.58	134.57	7661.00	-4835.06	4908.34	0.00	0.00	6889.82	Tgt
7	14195.49	89.32	134.57	7661.08	-4841.10	4914.47	3.00	179.99	6898.43	
8	17148.15	89.32	134.57	7696.00	-6913.04	7017.81	0.00	0.00	9850.88	PBHL

FIELD DETAILS

Eddy County, NM (Nad 27)
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

WELL DETAILS

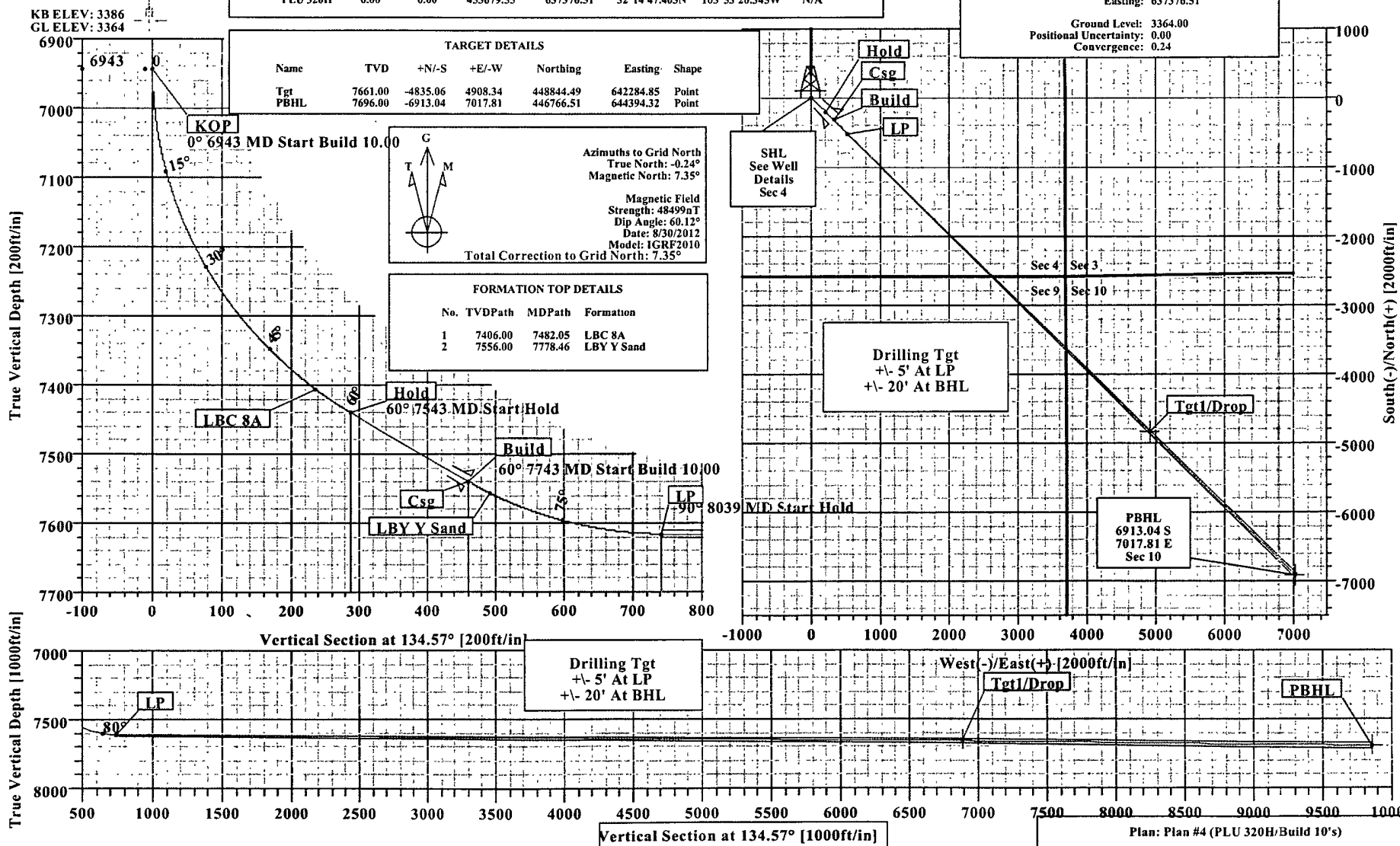
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
PLU 320H	0.00	0.00	453679.55	637376.51	32°14'47.403N	103°53'20.345W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Tgt	7661.00	-4835.06	4908.34	448844.49	642284.85	Point
PBHL	7696.00	-6913.04	7017.81	446766.51	644394.32	Point

SITE DETAILS

Poker Lake Unit 320H
Site Centre Northing: 453679.55
Easting: 637376.51
Ground Level: 3364.00
Positional Uncertainty: 0.00
Convergence: 0.24



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WFT Plan Report - X & Y's



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Company: BOPCO, L.P.		Date: 8/1/2012		Time: 09:19:37		Page: 1	
Field: Eddy County, NM (Nad 27)		Co-ordinate(NE) Reference: Well: PLU 320H, Grid North					
Site: Poker Lake Unit 320H		Vertical (TVD) Reference: SITE 3386.0					
Well: PLU 320H		Section (VS) Reference: Well (0.00N,0.00E,134.57Azi)					
Wellpath: Build 10's		Survey Calculation Method: Minimum Curvature Db: Sybase					

Plan: Plan #4	Date Composed: 7/31/2012
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Eddy County, NM (Nad 27)	
Map System: JS State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Poker Lake Unit 320H			
Site Position:	Northing: 453679.55 ft	Latitude: 32 14 47.403 N	
From: Map	Easting: 637376.51 ft	Longitude: 103 53 20.345 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 3364.00 ft		Grid Convergence: 0.24 deg	

Well: PLU 320H				Slot Name:			
Well Position: +N/-S 0.00 ft	Northing: 453679.55 ft	Latitude: 32 14 47.403 N		Well Position: +E/-W 0.00 ft	Easting: 637376.51 ft	Longitude: 103 53 20.345 W	
Position Uncertainty: 0.00 ft							

Wellpath: Build 10's				Drilled From: Surface			
Current Datum: SITE				Tie-on Depth: 0.00 ft			
Magnetic Data: 8/30/2012				Above System Datum: Mean Sea Level			
Field Strength: 48499 nT				Declination: 7.59 deg			
Vertical Section: Depth From (TVD)				Mag Dip Angle: 60.12 deg			
		+N/-S		+E/-W		Direction	
		ft		ft		deg	
0.00		0.00		0.00		134.57	

Plan Section Information										
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	134.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6943.06	0.00	134.57	6943.06	0.00	0.00	0.00	0.00	0.00	0.00	
7543.06	60.00	134.57	7439.26	-201.04	204.09	10.00	10.00	0.00	134.57	
7743.06	60.00	134.57	7539.26	-322.59	327.48	0.00	0.00	0.00	0.00	
8038.87	89.58	134.57	7616.00	-520.69	528.58	10.00	10.00	0.00	0.00	
14186.88	89.58	134.57	7661.00	-4835.06	4908.34	0.00	0.00	0.00	0.00	Tgt
14195.49	89.32	134.57	7661.08	-4841.10	4914.47	3.00	-3.00	0.00	179.99	
17148.15	89.32	134.57	7696.00	-6913.04	7017.81	0.00	0.00	0.00	0.00	PBHL

Survey										
MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
6900.00	0.00	134.57	6900.00	0.00	0.00	0.00	0.00	453679.55	637376.51	
6943.06	0.00	134.57	6943.06	0.00	0.00	0.00	0.00	453679.55	637376.51	KOP
6950.00	0.69	134.57	6950.00	-0.03	0.03	0.04	10.00	453679.52	637376.54	
7000.00	5.69	134.57	6999.91	-1.98	2.01	2.83	10.00	453677.57	637378.52	
7050.00	10.69	134.57	7049.38	-6.98	7.09	9.95	10.00	453672.57	637383.60	
7100.00	15.69	134.57	7098.04	-14.99	15.22	21.36	10.00	453664.56	637391.73	
7150.00	20.69	134.57	7145.53	-25.94	26.34	36.97	10.00	453653.61	637402.85	
7200.00	25.69	134.57	7191.47	-39.76	40.36	56.65	10.00	453639.79	637416.87	
7250.00	30.69	134.57	7235.53	-56.33	57.18	80.27	10.00	453623.22	637433.69	
7300.00	35.69	134.57	7277.36	-75.53	76.68	107.63	10.00	453604.02	637453.19	
7350.00	40.69	134.57	7316.64	-97.22	98.70	138.54	10.00	453582.33	637475.21	
7400.00	45.69	134.57	7353.08	-121.23	123.07	172.75	10.00	453558.32	637499.58	
7450.00	50.69	134.57	7386.40	-147.38	149.61	210.01	10.00	453532.17	637526.12	
7482.05	53.90	134.57	7406.00	-165.17	167.68	235.37	10.00	453514.38	637544.19	LBC 8A

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WFT Plan Report - X & Y's



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Company: BOPCO, L.P.	Date: 8/1/2012	Time: 09:19:37	Page: 2
Field: Eddy County, NM (Nad 27)	Co-ordinate(NE) Reference: Well: PLU 320H, Grid North		
Site: Poker Lake Unit 320H	Vertical (TVD) Reference: SITE 3386.0		
Well: PLU 320H	Section (VS) Reference: Well (0.00N;0.00E;134.57Azi)		
Wellpath: Build 10's	Survey Calculation Method: Minimum Curvature		Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
7500.00	55.69	134.57	7416.35	-175.46	178.12	250.03	10.00	453504.09	637554.63	
7543.06	60.00	134.57	7439.26	-201.04	204.09	286.48	10.00	453478.51	637580.60	Hold
7600.00	60.00	134.57	7467.73	-235.65	239.22	335.79	0.00	453443.90	637615.73	
7700.00	60.00	134.57	7517.73	-296.42	300.91	422.39	0.00	453383.13	637677.42	
7743.06	60.00	134.57	7539.26	-322.59	327.48	459.68	0.00	453356.96	637703.99	Csg
7750.00	60.69	134.57	7542.69	-326.82	331.78	465.72	10.00	453352.73	637708.29	
7778.46	63.54	134.57	7556.00	-344.48	349.70	490.87	10.00	453335.07	637726.21	LBV Y Sand
7800.00	65.69	134.57	7565.23	-358.13	363.56	510.33	10.00	453321.42	637740.07	
7850.00	70.69	134.57	7583.80	-390.70	396.62	556.74	10.00	453288.85	637773.13	
7900.00	75.69	134.57	7598.25	-424.28	430.71	604.58	10.00	453255.27	637807.22	
7950.00	80.69	134.57	7608.48	-458.61	465.56	653.51	10.00	453220.94	637842.07	
8000.00	85.69	134.57	7614.40	-493.44	500.92	703.14	10.00	453186.11	637877.43	
8038.87	89.58	134.57	7616.00	-520.69	528.58	741.97	10.00	453158.86	637905.09	LP
8100.00	89.58	134.57	7616.45	-563.59	572.13	803.10	0.00	453115.96	637948.64	
8200.00	89.58	134.57	7617.18	-633.77	643.37	903.10	0.00	453045.78	638019.88	
8300.00	89.58	134.57	7617.91	-703.94	714.61	1003.10	0.00	452975.61	638091.12	
8400.00	89.58	134.57	7618.65	-774.12	785.85	1103.09	0.00	452905.43	638162.36	
8500.00	89.58	134.57	7619.38	-844.29	857.09	1203.09	0.00	452835.26	638233.60	
8600.00	89.58	134.57	7620.11	-914.47	928.33	1303.09	0.00	452765.08	638304.84	
8700.00	89.58	134.57	7620.84	-984.64	999.56	1403.09	0.00	452694.91	638376.07	
8800.00	89.58	134.57	7621.57	-1054.82	1070.80	1503.08	0.00	452624.73	638447.31	
8900.00	89.58	134.57	7622.31	-1124.99	1142.04	1603.08	0.00	452554.56	638518.55	
9000.00	89.58	134.57	7623.04	-1195.17	1213.28	1703.08	0.00	452484.38	638589.79	
9100.00	89.58	134.57	7623.77	-1265.34	1284.52	1803.07	0.00	452414.21	638661.03	
9200.00	89.58	134.57	7624.50	-1335.52	1355.76	1903.07	0.00	452344.03	638732.27	
9300.00	89.58	134.57	7625.23	-1405.69	1427.00	2003.07	0.00	452273.86	638803.51	
9400.00	89.58	134.57	7625.96	-1475.87	1498.23	2103.07	0.00	452203.68	638874.74	
9500.00	89.58	134.57	7626.70	-1546.04	1569.47	2203.06	0.00	452133.51	638945.98	
9600.00	89.58	134.57	7627.43	-1616.22	1640.71	2303.06	0.00	452063.33	639017.22	
9700.00	89.58	134.57	7628.16	-1686.39	1711.95	2403.06	0.00	451993.16	639088.46	
9800.00	89.58	134.57	7628.89	-1756.57	1783.19	2503.06	0.00	451922.98	639159.70	
9900.00	89.58	134.57	7629.62	-1826.74	1854.43	2603.05	0.00	451852.81	639230.94	
10000.00	89.58	134.57	7630.36	-1896.92	1925.67	2703.05	0.00	451782.63	639302.18	
10100.00	89.58	134.57	7631.09	-1967.09	1996.90	2803.05	0.00	451712.46	639373.41	
10200.00	89.58	134.57	7631.82	-2037.27	2068.14	2903.05	0.00	451642.28	639444.65	
10300.00	89.58	134.57	7632.55	-2107.44	2139.38	3003.04	0.00	451572.11	639515.89	
10400.00	89.58	134.57	7633.28	-2177.62	2210.62	3103.04	0.00	451501.93	639587.13	
10500.00	89.58	134.57	7634.02	-2247.79	2281.86	3203.04	0.00	451431.76	639658.37	
10600.00	89.58	134.57	7634.75	-2317.97	2353.10	3303.03	0.00	451361.58	639729.61	
10700.00	89.58	134.57	7635.48	-2388.14	2424.34	3403.03	0.00	451291.41	639800.85	
10800.00	89.58	134.57	7636.21	-2458.32	2495.57	3503.03	0.00	451221.23	639872.08	
10900.00	89.58	134.57	7636.94	-2528.49	2566.81	3603.03	0.00	451151.06	639943.32	
11000.00	89.58	134.57	7637.68	-2598.67	2638.05	3703.02	0.00	451080.88	640014.56	
11100.00	89.58	134.57	7638.41	-2668.84	2709.29	3803.02	0.00	451010.71	640085.80	
11200.00	89.58	134.57	7639.14	-2739.02	2780.53	3903.02	0.00	450940.53	640157.04	
11300.00	89.58	134.57	7639.87	-2809.19	2851.77	4003.02	0.00	450870.36	640228.28	
11400.00	89.58	134.57	7640.60	-2879.37	2923.01	4103.01	0.00	450800.18	640299.52	
11500.00	89.58	134.57	7641.33	-2949.54	2994.24	4203.01	0.00	450730.01	640370.75	
11600.00	89.58	134.57	7642.07	-3019.72	3065.48	4303.01	0.00	450659.83	640441.99	
11700.00	89.58	134.57	7642.80	-3089.89	3136.72	4403.00	0.00	450589.66	640513.23	
11800.00	89.58	134.57	7643.53	-3160.07	3207.96	4503.00	0.00	450519.48	640584.47	
11900.00	89.58	134.57	7644.26	-3230.24	3279.20	4603.00	0.00	450449.31	640655.71	

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WFT Plan Report - X & Y's



Weatherford

Company: BOPCO, L.P. Field: Eddy County, NM (Nad 27) Site: Poker Lake Unit 320H Well: PLU 320H Wellpath: Build 10's	Date: 8/1/2012 Time: 09:19:37 Page: 3 Co-ordinate(NE) Reference: Well: PLU 320H, Grid North Vertical (TVD) Reference: SITE 3386.0 Section (VS) Reference: Well (0.00N,0.00E,134.57Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comments
12000.00	89.58	134.57	7644.99	-3300.42	3350.44	4703.00	0.00	450379.13	640726.95	
12100.00	89.58	134.57	7645.73	-3370.59	3421.68	4802.99	0.00	450308.96	640798.19	
12200.00	89.58	134.57	7646.46	-3440.77	3492.91	4902.99	0.00	450238.78	640869.42	
12300.00	89.58	134.57	7647.19	-3510.94	3564.15	5002.99	0.00	450168.61	640940.66	
12400.00	89.58	134.57	7647.92	-3581.12	3635.39	5102.99	0.00	450098.43	641011.90	
12500.00	89.58	134.57	7648.65	-3651.29	3706.63	5202.98	0.00	450028.26	641083.14	
12600.00	89.58	134.57	7649.39	-3721.47	3777.87	5302.98	0.00	449958.08	641154.38	
12700.00	89.58	134.57	7650.12	-3791.64	3849.11	5402.98	0.00	449887.91	641225.62	
12800.00	89.58	134.57	7650.85	-3861.82	3920.35	5502.98	0.00	449817.73	641296.86	
12900.00	89.58	134.57	7651.58	-3931.99	3991.58	5602.97	0.00	449747.56	641368.09	
13000.00	89.58	134.57	7652.31	-4002.17	4062.82	5702.97	0.00	449677.38	641439.33	
13100.00	89.58	134.57	7653.05	-4072.34	4134.06	5802.97	0.00	449607.21	641510.57	
13200.00	89.58	134.57	7653.78	-4142.52	4205.30	5902.96	0.00	449537.03	641581.81	
13300.00	89.58	134.57	7654.51	-4212.69	4276.54	6002.96	0.00	449466.86	641653.05	
13400.00	89.58	134.57	7655.24	-4282.87	4347.78	6102.96	0.00	449396.68	641724.29	
13500.00	89.58	134.57	7655.97	-4353.04	4419.02	6202.96	0.00	449326.51	641795.53	
13600.00	89.58	134.57	7656.70	-4423.22	4490.25	6302.95	0.00	449256.33	641866.76	
13700.00	89.58	134.57	7657.44	-4493.39	4561.49	6402.95	0.00	449186.16	641938.00	
13800.00	89.58	134.57	7658.17	-4563.57	4632.73	6502.95	0.00	449115.98	642009.24	
13900.00	89.58	134.57	7658.90	-4633.74	4703.97	6602.95	0.00	449045.81	642080.48	
14000.00	89.58	134.57	7659.63	-4703.92	4775.21	6702.94	0.00	448975.63	642151.72	
14100.00	89.58	134.57	7660.36	-4774.09	4846.45	6802.94	0.00	448905.46	642222.96	
14186.88	89.58	134.57	7661.00	-4835.06	4908.34	6889.82	0.00	448844.49	642284.85	Tgt
14195.49	89.32	134.57	7661.08	-4841.10	4914.47	6898.43	3.00	448838.45	642290.98	Hold
14200.00	89.32	134.57	7661.14	-4844.27	4917.69	6902.94	0.00	448835.28	642294.20	
14300.00	89.32	134.57	7662.32	-4914.44	4988.92	7002.93	0.00	448765.11	642365.43	
14400.00	89.32	134.57	7663.50	-4984.61	5060.16	7102.92	0.00	448694.94	642436.67	
14500.00	89.32	134.57	7664.68	-5054.78	5131.39	7202.92	0.00	448624.77	642507.90	
14600.00	89.32	134.57	7665.87	-5124.95	5202.63	7302.91	0.00	448554.60	642579.14	
14700.00	89.32	134.57	7667.05	-5195.13	5273.86	7402.90	0.00	448484.42	642650.37	
14800.00	89.32	134.57	7668.23	-5265.30	5345.10	7502.90	0.00	448414.25	642721.61	
14900.00	89.32	134.57	7669.41	-5335.47	5416.33	7602.89	0.00	448344.08	642792.84	
15000.00	89.32	134.57	7670.60	-5405.64	5487.57	7702.88	0.00	448273.91	642864.08	
15100.00	89.32	134.57	7671.78	-5475.81	5558.80	7802.87	0.00	448203.74	642935.31	
15200.00	89.32	134.57	7672.96	-5545.99	5630.04	7902.87	0.00	448133.56	643006.55	
15300.00	89.32	134.57	7674.14	-5616.16	5701.28	8002.86	0.00	448063.39	643077.79	
15400.00	89.32	134.57	7675.33	-5686.33	5772.51	8102.85	0.00	447993.22	643149.02	
15500.00	89.32	134.57	7676.51	-5756.50	5843.75	8202.85	0.00	447923.05	643220.26	
15600.00	89.32	134.57	7677.69	-5826.67	5914.98	8302.84	0.00	447852.88	643291.49	
15700.00	89.32	134.57	7678.87	-5896.85	5986.22	8402.83	0.00	447782.70	643362.73	
15800.00	89.32	134.57	7680.06	-5967.02	6057.45	8502.83	0.00	447712.53	643433.96	
15900.00	89.32	134.57	7681.24	-6037.19	6128.69	8602.82	0.00	447642.36	643505.20	
16000.00	89.32	134.57	7682.42	-6107.36	6199.92	8702.81	0.00	447572.19	643576.43	
16100.00	89.32	134.57	7683.60	-6177.53	6271.16	8802.80	0.00	447502.02	643647.67	
16200.00	89.32	134.57	7684.79	-6247.71	6342.39	8902.80	0.00	447431.84	643718.90	
16300.00	89.32	134.57	7685.97	-6317.88	6413.63	9002.79	0.00	447361.67	643790.14	
16400.00	89.32	134.57	7687.15	-6388.05	6484.87	9102.78	0.00	447291.50	643861.38	
16500.00	89.32	134.57	7688.34	-6458.22	6556.10	9202.78	0.00	447221.33	643932.61	
16600.00	89.32	134.57	7689.52	-6528.39	6627.34	9302.77	0.00	447151.16	644003.85	
16700.00	89.32	134.57	7690.70	-6598.57	6698.57	9402.76	0.00	447080.98	644075.08	
16800.00	89.32	134.57	7691.88	-6668.74	6769.81	9502.76	0.00	447010.81	644146.32	
16900.00	89.32	134.57	7693.07	-6738.91	6841.04	9602.75	0.00	446940.64	644217.55	
17000.00	89.32	134.57	7694.25	-6809.08	6912.28	9702.74	0.00	446870.47	644288.79	

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WFT Plan Report - X & Y's



Weatherford

Company: BOPCO, L.P. Field: Eddy County, NM (Nad 27) Site: Poker Lake Unit 320H Well: PLU 320H Wellpath: Build 10's	Date: 8/1/2012 Time: 09:19:37 Page: 4 Co-ordinate(NE) Reference: Well: PLU 320H, Grid North Vertical (TVD) Reference: SITE 3386.0 Section (VS) Reference: Well (0.00N,0.00E,134.57Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
17100.00	89.32	134.57	7695.43	-6879.26	6983.51	9802.73	0.00	446800.29	644360.02	
17148.15	89.32	134.57	7696.00	-6913.04	7017.81	9850.88	0.00	446766.51	644394.32	PBHL

Targets

Name	Description Dip.	TVD Dir.	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
Tgt			7661.00	-4835.06	4908.34	448844.49	642284.85	32 13 59 350 N 103 52 23.434 W
PBHL			7696.00	-6913.04	7017.81	446766.51	644394.32	32 13 38.696 N 103 51 58.980 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
7743.06	7539.26	0.000	0.000	Csg

Annotation

MD ft	TVD ft	
6943.06	6943.06	KOP
7543.06	7439.26	Hold
7743.06	7539.26	Build
8038.87	7616.00	LP
14186.88	7661.00	Tgt1/Drop
14195.49	7661.08	Hold
17148.14	7696.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
7482.05	7406.00	LBC 8A		0.00	0.00
7778.46	7556.00	LBV Y Sand		0.00	0.00

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: August 01, 2012
Job Number: _____
Customer: BOPCO
Well Name: Poker Lake Unit 320H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM
Block: _____
Engineer: RWJ

US State Plane 1927	Geodetic Latitude / Longitude
System: New Mexico East 3001 (NON-EXACT)	System: Latitude / Longitude
Projection: SPC27 Transverse Mercator	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 452394.590 USFT	Latitude 32.2429572 DEG
East/West 638367.390 USFT	Longitude -103.8857971 DEG
Grid Convergence: 24°	
Total Correction: +7.35°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.24296° N	32° 14 min 34.646 sec
Longitude =	103.88580° W	103° 53 min 8.870 sec

Magnetic Declination =	7.59°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6545
Local Field Strength =	48494 nT	Magnetic Vector X = 23947 nT
Magnetic Dip =	60.12°	Magnetic Vector Y = 3189 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42048 nT
Spud Date =	Aug 30, 2012	Magnetic Vector H = 24158 nT

Signed: _____

Date: _____

**Poker Lake Unit 320H
30-015-39810
BOPCO, L.P.
August 31, 2012
Conditions of Approval**

- 1. Original Conditions of Approval apply for circulating cement and notifying BLM if it does not circulate.**
- 2. Operator did not change the cement volume for the surface casing. Therefore, if it is changed out in the field to a smaller volume and the operator does not circulate. The operator will do remedial cementing and pea gravel will not be approved under any circumstance.**
- 3. 7" casing cement program – the revision results in a 37% excess on the first stage compared to a 61%. The second stage is now 22% - therefore, additional cement may be required to achieve cement to surface.**

WWI 083112