

Form 3160-3
(April 2004)

OCD Artesia

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

la. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5 Lease Serial No. E 5229, LC 68905	
lb. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2 Name of Operator BOPCO, L. P. <i>(260737)</i>		7. If Unit or CA Agreement, Name and No. NMNM 71016F <i>Poker Lake Unit</i>	
3a Address P. O. Box 2760 Midland, TX 79702		8. Lease Name and Well No. Poker Lake Unit #327H <i>(306402)</i>	
3b Phone No. (include area code) 432-683-2277		9 API Well No. <i>30-015-39251</i>	
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface <i>(E) 1400' FNL, 635' FWL, Sec 12, T24S, R30E, Lt N32.235658, Lg W103.840428</i> At proposed prod. zone <i>2295' FSL, 2580' FWL, Sec 2, T24S, R30E, Lt N32.245803, Lg W103.851425</i>		10. Field and Pool, or Exploratory Poker Lake SW (Delaware) <i>(96046)</i>	
14 Distance in miles and direction from nearest town or post office* 8.5 miles east of Malaga, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec 12, T24S, R30E, Mer NMP.	
15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line, if any) <i>635'</i>		12 County or Parish Eddy County	
16 No. of acres in lease <i>3,800</i>		13 State NM	
17 Spacing Unit dedicated to this well <i>200</i>			
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft <i>1497'</i>		19 Proposed Depth <i>12,743' MD 7840' TVD</i>	
20 BLM/BIA Bond No. on file <i>COB000050</i>			
21 Elevations (Show whether DF, KDB, RT, GL, etc.) <input checked="" type="checkbox"/> 3,514' GL, 3,533' KB		22. Approximate date work will start* 06/15/2011	
		23. Estimated duration 30 days	
24. Attachments			

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification
- 6. Such other site specific information and/or plans as may be required by the authorized officer.

25 Signature <i>Katy Holster</i>	Name (Printed/Typed) Katy Holster	Date <i>5/17/11</i>
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Title
Administrative Assistant

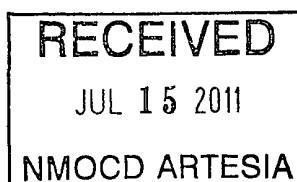
Approved by (Signature) <i>R. Herrell</i>	Name (Printed/Typed) R. Herrell	Date <i>JUL - 1 2011</i>
Title STATE DIRECTOR	Office NM STATE OFFICE	

Application approval 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
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 USC Section 1001 and Title 43 USC 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)



Carlsbad Controlled Water Basin

*KB 07/29/11*Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

Surface casing is to be set into the Rustler below all fresh water sands.

7" casing will be set at approximately 9,153' MD, 7,910' TVD (thru curve) and cemented in two stages with DV Tool set at approximately 5000'. TOC at surface.

Production liner will be 4-1/2" run, with Baker hydraulic packers for zone isolation. Top of 4-1/2" liner will be approximately 150' above 7" casing shoe at an approximate depth of 9,003'.

Drilling procedure, BOP diagram, and anticipated tops are attached.

This well is located inside the R111 Potash area and inside Secretary's Potash area.

The surface location is outside of Poker Lake Unit. EOG lease LC 82898. Bottom hole location is unorthodox.

BOPCO, L.P., at P. O. Box 2760, Midland, TX, 79702 is a subsidiary of BOPCO, L.P., 201 Mail Street, Ft. Worth, TX, 76102. Bond No. COB000050 (Nationwide).

EIGHT POINT DRILLING PROGRAM BOPCO, L.P.

NAME OF WELL: Poker Lake Unit #327H

LEGAL DESCRIPTION - SURFACE: 1400' FNL, 635' FWL, Section 12, T24S, R30E, Eddy County, NM.
BHL: 2295' FSL, 2580' FWL, Section 2, T24S, R30E, Eddy County, New Mexico.

POINT 1: ESTIMATED FORMATION TOPS

(See No. 2 Below)

POINT 2: WATER, OIL, GAS AND/OR MINERAL BEARING FORMATIONS

Anticipated Formation Tops: KB 3,533' (estimated)
GL 3,514'

FORMATION	ESTIMATED TOP FROM KB		ESTIMATED SUB-SEA TOP	BEARING
	TVD	MD		
T/Fresh Water	379'	379'	+ 3,154'	Fresh Water
T/Rustler	483'	483'	+ 3,050'	Barren
T/Salt	840'	840'	+ 2,693'	Barren
B/Salt	3,915'	3,915'	- 382'	Barren
T/Lamar	4,136'	4,136'	- 603'	Barren
T/Ramsey	4,176'	4,176'	- 643'	Oil/Gas
T/Lower Cherry Canyon	6,279'	6,279'	- 2,746'	Oil/Gas
KOP	7,451'	7,451'	- 3,918'	Oil/Gas
T/Lwr Brushy Canyon "U" Sd	7,566'	7,567'	- 4,033'	Oil/Gas
T/Lwr Brushy Canyon "8A" Sd	7,720'	7,737'	- 4,187'	Oil/Gas
T/Lwr Brushy Canyon "Y" Sd	7,890'	8,008'	- 4,357'	Oil/Gas
EOC	7,928'	8,210'	- 4,395'	Oil/Gas
Target #1	7,910'	9,153'	- 4,377'	Oil/Gas
TD Horizontal Hole	7,840'	12,743'	- 4,307'	Oil/Gas

POINT 3: CASING PROGRAM

TYPE	INTERVALS (MD)		Hole Size	PURPOSE	CONDITION
	0'	60'			
20"	0'	60'	24"	Conductor	Contractor Discretion
13-3/8", 48#, H-40, 8rd, ST&C or 54 5# J-55, 8rd, STC*	0' -	830'	17-1/2"	Surface	New
9-5/8", 40#, J-55, 8rd, LT&C	0' -	4,156'	12-1/4"	Intermediate	New
7", 26#, N-80, 8rd, LT&C or Buttress*	0' -	9,153'	8-3/4"	Production	New
4-1/2", 11.6#, HCP-110, 8rd, LT&C	9,003'	- 12,743'	6-1/8"	Production	New

CASING DESIGN SAFETY FACTORS:

TYPE	TENSION	COLLAPSE	BURST
13-3/8", 48#, H-40, 8rd, ST&C	9.63	1.95	2.18
13-3/8", 54 5#, J-55, 8rd, ST&C*	13.67	2.98	3.43
9-5/8", 40#, J-55, 8rd, LT&C	14.60	1.19	1.04
7", 26#, N-80, LT&C	2.95	1.46	1.08
7", 26#, N-80, Buttress*	3.79	1.46	1.08
4-1/2", 11.6#, HCP-110, 8rd, LT&C	4.65	2.34	2.14

*Depending on Availability

DESIGN CRITERIA AND CASING LOADING ASSUMPTIONS:

SURFACE CASING - (13-3/8")

Tension	A 1.6 design factor utilizing the effects of buoyancy (9.2 ppg).
Collapse	A 1.0 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the casing will be run (0.48 psi/ft). The effects of axial load on collapse will be considered.
Burst	A 1.3 design factor with a surface pressure equal to the fracture gradient at setting depth less a gas gradient to the surface. Internal burst force at the shoe will be fracture pressure at that depth. Backup pressure will be formation pore pressure. In all cases a conservative fracture pressure will be used such that it represents the upper limit of potential fracture resistance up to a 1.0 psi/ft gradient. The effects of tension on burst will not be utilized.

PROTECTIVE CASING - (9-5/8")

Tension	A 1.6 design factor utilizing the effects of buoyancy (10 ppg).
Collapse	A 1.0 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
	In the case of development drilling, collapse design should be analyzed using internal evacuation equal to 1/3 the proposed total depth of the well. This criterion will be used when there is absolutely no potential of the protective string being used as a production casing string.
Burst	A 1.0 surface design factor and a 1.3 downhole design factor with a surface pressure equivalent to the fracture gradient at setting depth less a gas gradient to the surface. Internal burst force at the shoe will be fracture pressure at that depth. Back pressure will be formation pore pressure. In all cases a conservative fracture pressure will be used such that it represents the upper limit of potential fracture resistance up to a 1.0 psi/ft gradient.

2ND INTERMEDIATE CASING - (7")

Tension	A 1.6 design factor utilizing the effects of buoyancy (9.0 ppg).
Collapse	A 1.0 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the casing will be run (0.48 psi/ft). The effects of axial load on collapse will be considered.
Burst	A 1.25 design factor with anticipated maximum tubing pressure (5000 psig) on top of the maximum anticipated packer fluid gradient (0.433 psi/ft) Backup on production strings will be formation pore pressure (0.433 psi/ft) The effects of tension on burst will not be utilized.

PRODUCTION CASING - (4-1/2")

Tension	A 1.6 design factor utilizing the effects of buoyancy (9.0 ppg).
Collapse	A 1.0 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the casing will be run (0.48 psi/ft) The effects of axial load on collapse will be considered.
Burst	A 1.25 design factor with anticipated maximum tubing pressure (5000 psig) on top of the maximum anticipated packer fluid gradient (0.433 psi/ft) Backup on production strings will be formation pore pressure (0.433 psi/ft) The effects of tension on burst will not be utilized.

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM)

The BOPE when rigged up on the 13-3/8" surface casing head (12-1/4" open hole) will consist of 13-5/8" X 5,000 psi dual ram BOP's with mud cross, choke manifold, chokes, and hydral per Diagram 1 (5,000 psi WP). The pipe and blind rams, choke, kill lines, kelly cocks, inside BOP, etc. when installed on the surface casing head will be hydro-tested to 250-300 psig and 2000 psig by independent tester. The hydral when installed on surface casing head will be tested to 1000 psi.

The BOPE when rigged up on the 9-5/8" intermediate casing spool (8-3/4" open hole) will consist of 13-5/8" x 5,000 psi annular, 13-5/8" x 5,000 psi pipe & blind rams with mud cross, choke manifold and chokes as in Diagram 1. The pipe and blind rams, choke, kill lines, kelly cocks inside BOP, etc. will be tested to 3000 psig by independent tester. In addition to the high pressure test, a low pressure (250-300 psig) test will be required. Hydral will be tested to 1500 psig.

The BOPE when rigged up on the 7" intermediate casing spool (6-1/8" open hole) will consist of 13-5/8" x 5,000 psi annular, 13-5/8" x 5,000 psi pipe & blind rams with mud cross choke manifold and chokes as in Diagram 1. The pipe and blind rams, choke, kelly lines, kelly cocks inside BOP, etc. will be tested to 3000 psig by independent tester. In addition to the high pressure test, a low pressure (250-300 psig) test will be required. Hydral will be tested to 1500 psig.

These tests will be performed:

- a) Upon installation
- b) After any component changes
- c) Thirty days after a previous test
- d) As required by well conditions

A function test to insure that the preventers are operating correctly will be performed on each trip.

POINT 5: MUD PROGRAM

DEPTH	MUD TYPE	WEIGHT	FV	PV	YP	FL	Ph
0' - 830'	FW Spud Mud	8.5 - 9.2	38-70	NC	NC	NC	10.0
830' - 4,156'	Brine Water	9.8 - 10.2	28-30	NC	NC	NC	9.5 - 10.5
4,156' - 9,153'	FW/Gel	8.7 - 9.0	28-36	NC	NC	NC	9.5 - 10.0
9,153' -12,743'	FW/Gel/Starch	8.7 - 9.0	28-36	NC	NC	<100	9.5 - 10.0

NOTE: May increase vis for logging purposes only.

POINT 6: TECHNICAL STAGES OF OPERATION

A) TESTING

None anticipated.

B) LOGGING *See COA*

Run #1: GR with MWD during drilling of build and horizontal portions of 8-3/4" and 6-1/8" hole.

Run #2: Shuttle log w/GR, PE, Density, Neutron, Resistivity in lateral leg open hole (lateral).

Mud Logger: Rigged up at 100' to assist with picking T/Salt.

C) CONVENTIONAL CORING

None anticipated.

D) CEMENT

<u>INTERVAL</u>	<u>AMOUNT SXS</u>	<u>FT OF FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT³/SX</u>
SURFACE:						
Lead: 0 – 530' (100% excess Circ to surface)	400	530	RSS Micro/C 35/65 + Additives	9.5	12.8	1.87
Tail. 530' – 830' (100% excess)	350	300	Class "C" + Additives	6.12	14.8	1.36
INTERMEDIATE.						
Lead: 0' – 3,656' (100% excess Circ to surface)	1,200	3,656	Class "C" 35/65 + Additives	9.95	12.8	1.91
Tail. 3,656' – 4,156' (100% excess)	300	500	Class "C" cement + Additives	6.33	14.8	1.33
2ND INTERMEDIATE						
Stage 1: Lead: 5,000' – 7,451' (50% excess)	250	2,451	RSS Ultra Lite + Additives	10.09	10.5	2.41
Tail: 7,451'-9,153' (50% excess)	325	1,702	RSS Ultra Lite + Additives	7.03	13.0	1.38
DV Tool @ 5,000'						
Stage 2 Lead: 0' – 4,900' (50% excess) (Circ to surface)	400	4900	RSS Ultra Lite + Additives	10.16	10.5	2.42
Tail. 4,900'-5,000' (50% excess)	100	100	Class "C" + Additives	6.31	14.80	1.33

E) DIRECTIONAL DRILLING

BOPCO, L.P. plans to drill out the 9-5/8" intermediate casing with a 8-3/4" bit to a TVD of approximately 7451' at which point a directional hole will be kicked off and drilled at an azimuth of 316.01 degrees, building angle at 12 deg/100' to 91.12 degrees at a TVD of 7928' (MD 8210'). This angle and azimuth will be maintained for 943' to a measured depth of 9153' (7910' TVD). At this depth 7", 26#, N80, Buttress, or 8rd LTC casing will be installed and cemented in two stages (DV Tool @ approximately 5000') with TOC at 3656' (500' above 9-5/8" casing shoe). A 6-1/8" open hole lateral will then be drilled out from 7" casing at an azimuth of 316.01 degrees, inclination of 91.12 degrees. The azimuth will be turned at a rate of 3 deg/100' to a new azimuth of 317.51 degrees at MD of 9203'. This azimuth will be maintained to a total measured depth of 12,743', 7840' TVD.. At this depth 4-1/2", 11.6#, HCP110, 8rd, LTC casing will be installed with Baker hydraulic packers installed for zone isolation in the lateral. Top of 4-1/2" liner at approximately 8260' (150' above 7" casing shoe).

↑
9003 per csg. pgrm.

Surface
see cont

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

5

Normal pressures are anticipated throughout Delaware section. A BHP of 3581 psi (max) or MWE of 8.4 ppg is expected. Lost circulation may exist in the Delaware Section from 4,136'-7,890' TVD. No H₂S is anticipated.

POINT 8: OTHER PERTINENT INFORMATION

A) Auxiliary Equipment

Upper and lower kelly cocks. Full opening stab in valve on the rig floor.

B) Anticipated Starting Date

Upon approval

30 days drilling operations

14 days completion operations

TAM/keh



Weatherford®

Drilling Services

Proposal

BOPCO, L.P.

POKER LAKE UNIT #327H

EDDY CO, NM

WELL FILE: PLAN 1

FEBRUARY 14, 2011

Weatherford International, Ltd
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Midland, TX 79711 USA
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+1 432.561.8895 Fax
www.weatherford.com

BOPCO, L.P.

Poker Lake Unit 327H
Eddy Co, NM

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	DLeg	TFace	VSec	Target
1	0.00	0.00	316 01	0 00	0.00	0.00	0 00	0 00	0 00	
2	7451.06	0 00	316 01	7451.06	0.00	0.00	0 00	0 00	0 00	
3	8210.39	91 12	316 01	7928 43	350.25	-338.08	12 00	316 01	486.71	
4	9153.40	91.12	316.01	7910 00	1028.60	-992.87	0.00	0.00	1429.38	Hz Tgt
5	9203.23	91.12	317.51	7909.03	1064.90	-1027.00	3.00	90.09	1479.20	Pbhl
6	12742.96	91.12	317.51	7840 00	3674.51	-3417.59	0 00	0 00	5018.16	

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

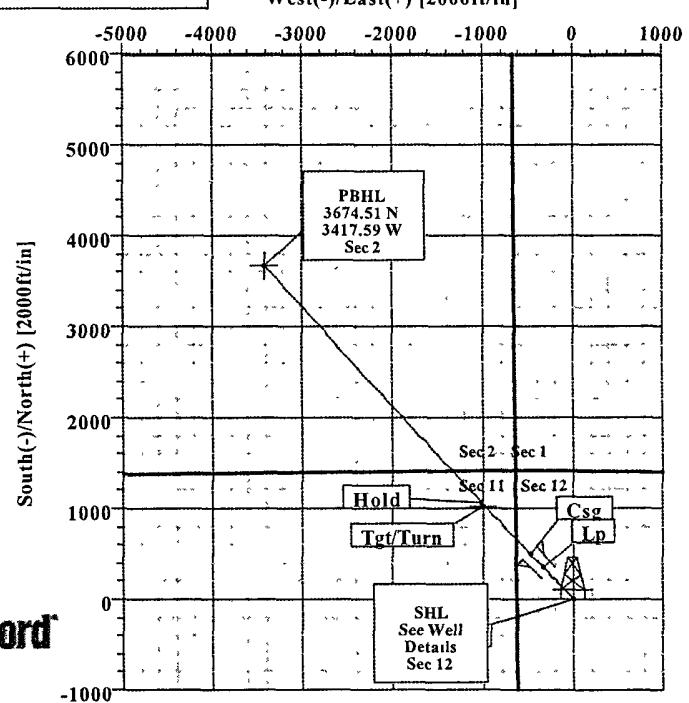
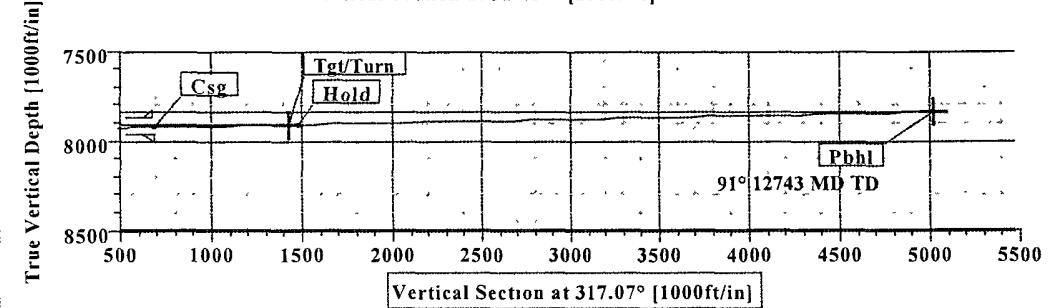
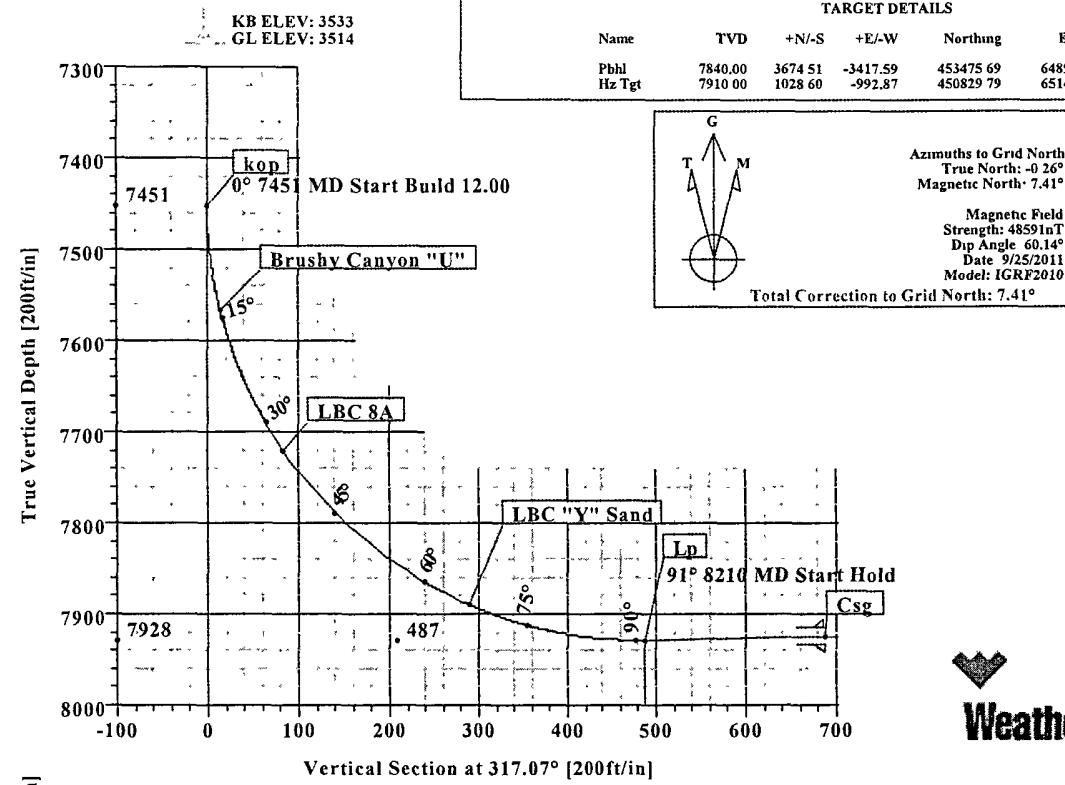
SITE DETAILS

Poker Lake Unit 327H

Site Centre Northing: 449801.18
Easting: 652407.17

Ground Level: 3514.00
Positional Uncertainty: 0.00
Convergence: 0.26

West(-)/East(+) [2000ft/in]



FORMATION TOP DETAILS

No.	TVDPATH	MDPath	Formation
1	7566.00	7567.14	Brushy Canyon "U"
2	7720.00	7736.74	LBC 8A
3	7890.00	8007.94	LBC "Y" Sand

Plan: Plan #1 (327H/1)

Created By: Russell W. Joyner

Date, 2/14/2011

Weatherford

Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: BOPCO, L.P.		Date: 2/14/2011	Time: 15:09:21	Page: 1						
Field: Eddy County, NM (Nad 27)		Co-ordinate(NE) Reference: Well: 327H, Grid North								
Site: Poker Lake Unit 327H		Vertical (TVD) Reference: SITE 3533.0								
Well: 327H		Section (VS) Reference: Well (0.00N,0.00E,317 07Az)								
Wellpath: 1		Survey Calculation Method: Minimum Curvature		Db: Sybase						
Plan: Plan #1		Date Composed: 2/14/2011								
Principal: Yes		Version: 1	Tied-to: From Surface							
Field: Eddy County, NM (Nad 27)										
Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level		Map Zone: New Mexico, Eastern Zone Coordinate System: Well Centre Geomagnetic Model: IGRF2010								
Site: Poker Lake Unit 327H										
Site Position: From: Map Position Uncertainty: Ground Level:		Northing: 449801.18 ft Easting: 652407.17 ft	Latitude: 32 14 8373 N Longitude: 103 50 25 536 W North Reference: Grid Grid Convergence: 0.26 deg							
Well: 327H		Slot Name:								
Well Position: +N/S 0.00 ft Northing: 449801.18 ft +E/W 0.00 ft Easting: 652407.17 ft Position Uncertainty: 0.00 ft		Latitude: 32 14 8373 N Longitude: 103 50 25.536 W								
Wellpath: 1		Drilled From: Surface Tie-on Depth: 0.00 ft								
Current Datum: SITE Magnetic Data: 9/25/2011 Field Strength: 48591 nT Vertical Section: Depth From (TVD) ft		Height 3533.00 ft +N/S ft +E/W ft	Above System Datum: Mean Sea Level Declination: 7.68 deg Mag Dip Angle: 60 14 deg +E/W ft Direction deg							
0.00		0.00	0.00	317.07						
Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/S ft	+E/W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	316.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7451.06	0.00	316.01	7451.06	0.00	0.00	0.00	0.00	0.00	0.00	
8210.39	91.12	316.01	7928.43	350.25	-338.08	12.00	12.00	0.00	316.01	
9153.40	91.12	316.01	7910.00	1028.60	-992.87	0.00	0.00	0.00	0.00	Hz Tgt
9203.23	91.12	317.51	7909.03	1064.90	-1027.00	3.00	-0.01	3.00	90.09	
12742.96	91.12	317.51	7840.00	3674.51	-3417.59	0.00	0.00	0.00	0.00	Pbhl
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
7400.00	0.00	316.01	7400.00	0.00	0.00	0.00	0.00	449801.18	652407.17	
7451.06	0.00	316.01	7451.06	0.00	0.00	0.00	0.00	449801.18	652407.17	kop
7500.00	5.87	316.01	7499.91	1.80	-1.74	2.51	12.00	449802.99	652405.43	
7567.14	13.93	316.01	7566.00	10.10	-9.75	14.04	12.00	449811.29	652397.42	Brushy Canyon "U"
7600.00	17.87	316.01	7597.60	16.58	-16.00	23.04	12.00	449817.76	652391.17	
7700.00	29.87	316.01	7688.87	45.64	-44.06	63.43	12.00	449846.83	652363.11	
7736.74	34.28	316.01	7720.00	59.68	-57.61	82.93	12.00	449860.87	652349.56	LBC 8A
7800.00	41.87	316.01	7769.76	87.73	-84.68	121.91	12.00	449888.91	652322.49	
7900.00	53.87	316.01	7836.71	140.99	-136.10	195.93	12.00	449942.18	652271.07	
8000.00	65.87	316.01	7886.81	203.11	-196.05	282.25	12.00	450004.30	652211.12	
8007.94	66.83	316.01	7890.00	208.35	-201.11	289.52	12.00	450009.53	652206.06	LBC "Y" Sand
8100.00	77.87	316.01	7917.87	271.36	-261.94	377.09	12.00	450072.55	652145.23	
8200.00	89.87	316.01	7928.52	342.77	-330.86	476.32	12.00	450143.96	652076.31	
8210.39	91.12	316.01	7928.43	350.25	-338.08	486.71	12.00	450151.43	652069.09	Lp
8300.00	91.12	316.01	7926.68	414.71	-400.30	576.29	0.00	450215.89	652006.87	

Weatherford International Ltd.

WFT Plan Report - X & Y's



Company: BOPCO, L P
 Field: Eddy County, NM (Nad 27)
 Site: Poker Lake Unit 327H
 Well: 327H
 Wellpath: 1

Date: 2/14/2011 Time: 15:09:21 Page: 2
 Co-ordinate(NE) Reference: Well: 327H, Grid North
 Vertical (TVD) Reference: SITE 3533.0
 Section (VS) Reference: Well (0 00N, 0.00E, 317 07Az)
 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
8400 00	91.12	316 01	7924 73	486 64	-469 74	676 25	0.00	450287.83	651937.43	
8410 36	91.12	316 01	7924 52	494 10	-476.93	686.61	0.00	450295.28	651930 24	-Csg
8500 00	91.12	316 01	7922 77	558 58	-539.17	776.22	0.00	450359.76	651868.00	
8600 00	91.12	316.01	7920 82	630 52	-608.61	876 18	0.00	450431.70	651798.56	
8700 00	91.12	316.01	7918 86	702.45	-678 05	976 14	0.00	450503.64	651729.12	
8800 00	91.12	316.01	7916 91	774.39	-747.48	1076 11	0.00	450575.57	651659.69	
8900 00	91.12	316 01	7914 95	846.32	-816 92	1176 07	0.00	450647.51	651590.25	
9000 00	91.12	316.01	7913 00	918 26	-886.36	1276.04	0.00	450719.44	651520.81	
9100 00	91.12	316 01	7911 04	990 19	-955.79	1376.00	0.00	450791.38	651451.38	
9153.40	91.12	316.01	7910 00	1028 60	-992.87	1429.38	0.00	450829.79	651414 30	Ht Tgt 7' Csg
9200.00	91.12	317 41	7909 09	1062 52	-1024.82	1475.97	3.00	450863.71	651382 35	
9203.23	91.12	317.51	7909 03	1064 90	-1027.00	1479 20	3.00	450866.09	651380 17	Hold
9300.00	91.12	317 51	7907 14	1136 24	-1092.36	1575 95	0.00	450937.43	651314.81	/
9400.00	91.12	317 51	7905 19	1209 97	-1159.89	1675.93	0.00	451011.15	651247.28	
9500.00	91.12	317.51	7903 24	1283 69	-1227.43	1775 90	0.00	451084.87	651179 74	
9600 00	91.12	317 51	7901 29	1357 41	-1294.96	1875 88	0.00	451158.60	651112.21	
9700 00	91.12	317 51	7899 34	1431 14	-1362.50	1975 86	0.00	451232.32	651044.67	
9800 00	91.12	317.51	7897.39	1504 86	-1430.03	2075 84	0.00	451306.04	650977.14	
9900.00	91.12	317.51	7895 44	1578.58	-1497.57	2175 82	0.00	451379.77	650909 60	
10000.00	91.12	317.51	7893 49	1652 30	-1565 11	2275.79	0.00	451453.49	650842.06	
10100 00	91.12	317 51	7891 54	1726.03	-1632.64	2375.77	0.00	451527 21	650774.53	
10200 00	91.12	317 51	7889 59	1799.75	-1700.18	2475.75	0.00	451600 94	650706.99	
10300.00	91.12	317 51	7887 64	1873 47	-1767.71	2575 73	0.00	451674.66	650639.46	
10400.00	91.12	317.51	7885 69	1947 20	-1835.25	2675 71	0.00	451748.38	650571.92	
10500 00	91.12	317.51	7883 74	2020 92	-1902 79	2775.68	0.00	451822.11	650504.38	
10600 00	91.12	317.51	7881 79	2094 64	-1970 32	2875.66	0.00	451895.83	650436 85	
10700 00	91.12	317.51	7879 84	2168 37	-2037 86	2975 64	0.00	451969.55	650369 31	
10800 00	91.12	317.51	7877 89	2242.09	-2105.39	3075 62	0.00	452043.28	650301 78	
10900 00	91.12	317.51	7875 94	2315 81	-2172.93	3175 60	0.00	452117.00	650234 24	
11000 00	91.12	317.51	7873 99	2389 54	-2240.46	3275.58	0.00	452190.72	650166 71	
11100 00	91.12	317.51	7872 04	2463 26	-2308 00	3375 55	0.00	452264.44	650099 17	
11200.00	91.12	317 51	7870 09	2536 98	-2375 54	3475 53	0.00	452338.17	650031.63	
11300.00	91.12	317 51	7868 14	2610 71	-2443 07	3575 51	0.00	452411.89	649964 10	
11400 00	91.12	317 51	7866 19	2684 43	-2510 61	3675 49	0.00	452485.61	649896.56	
11500 00	91.12	317 51	7864 24	2758 15	-2578 14	3775 47	0.00	452559.34	649829.03	
11600 00	91.12	317.51	7862 29	2831 88	-2645 68	3875 44	0.00	452633.06	649761.49	
11700 00	91.12	317.51	7860 34	2905 60	-2713 22	3975 42	0.00	452706.78	649693 95	
11800 00	91.12	317.51	7858 39	2979 32	-2780 75	4075.40	0.00	452780.51	649626.42	
11900 00	91.12	317.51	7856 44	3053 05	-2848.29	4175.38	0.00	452854.23	649558.88	
12000.00	91.12	317.51	7854 49	3126 77	-2915 82	4275.36	0.00	452927.95	649491.35	
12100.00	91.12	317.51	7852 54	3200 49	-2983 36	4375 33	0.00	453001.68	649423.81	
12200 00	91.12	317.51	7850 59	3274 21	-3050 89	4475.31	0.00	453075.40	649356 28	
12300 00	91.12	317.51	7848 64	3347 94	-3118 43	4575 29	0.00	453149.12	649288 74	
12400 00	91.12	317.51	7846 69	3421 66	-3185 97	4675 27	0.00	453222.85	649221 20	
12500 00	91.12	317.51	7844 74	3495 38	-3253 50	4775 25	0.00	453296 57	649153 67	
12600 00	91.12	317.51	7842.79	3569 11	-3321 04	4875 23	0.00	453370.29	649086 13	
12700 00	91.12	317.51	7840 84	3642 83	-3388 57	4975 20	0.00	453444 02	649018 60	
12742.96	91.12	317 51	7840 00	3674 51	-3417 59	5018 16	0.00	453475 69	648989 58	Pbhl

Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: BOPCO, L P	Date: 2/14/2011	Time: 15:09:21	Page: 3
Field: Eddy County, NM (Nad 27)	Coordinate(NE) Reference:	Well: 327H, Grid North	
Site: Poker Lake Unit 327H	Vertical (TVD) Reference:	SITE 35330	
Well: 327H	Section (VS) Reference:	Well (0.00N 0.00E 317.07Az)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Targets

Name	Description	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	<-- Latitude --> Deg Min Sec	<-- Longitude --> Deg Min Sec
Pohl		7840 00	3674 51	-3417 59	453475.69	648989.58	32 14 44.890 N	103 51 5.134 W
Hz Tgt		7910 00	1028.60	-992 87	450829 79	651414.30	32 14 18.597 N	103 50 37.041 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
8410 36	7924 52	0 000	0 000	Csg

Annotation

MD ft	TVD ft	
7451 06	7451 06	kop
8210 39	7928 43	Lp
9153 40	7910 00	Tgt/Turn
9203 23	7909 03	Hold
12742 96	7840 00	Pbhl

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
7567 14	7566 00	Brushy Canyon "U"		0 00	0 00
7736.74	7720 00	LBC 8A		0 00	0 00
8007 94	7890 00	LBC "Y" Sand		0 00	0 00

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

GeoDec v5.03

Report Date: February 14, 2011
Job Number:
Customer: BOPCO
Well Name: Poker Lake Unit #327H
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 449801.180 USFT Latitude 32.2356592 DEG

East/West 652407.170 USFT Longitude -103.8404267 DEG

Grid Convergence: .26°

Total Correction: +7.42°

Geodetic Location WGS84 Elevation = 0.0 Meters

Latitude = 32.23566° N 32° 14 min 8.373 sec

Longitude = 103.84043° W 103° 50 min 25.536 sec

Magnetic Declination = 7.68° [True North Offset]

Local Gravity = .9988 g CheckSum = 6570

Local Field Strength = 48587 nT Magnetic Vector X = 23971 nT

Magnetic Dip = 60.14° Magnetic Vector Y = 3231 nT

Magnetic Model = IGRF-2010g11 Magnetic Vector Z = 42139 nT

Spud Date = Sep 25, 2011 Magnetic Vector H = 24187 nT

Signed: _____ Date: _____

BOPCO, L. P.

13 5/8" X 5-M WP BOPE WITH 5-M WP ANNULAR

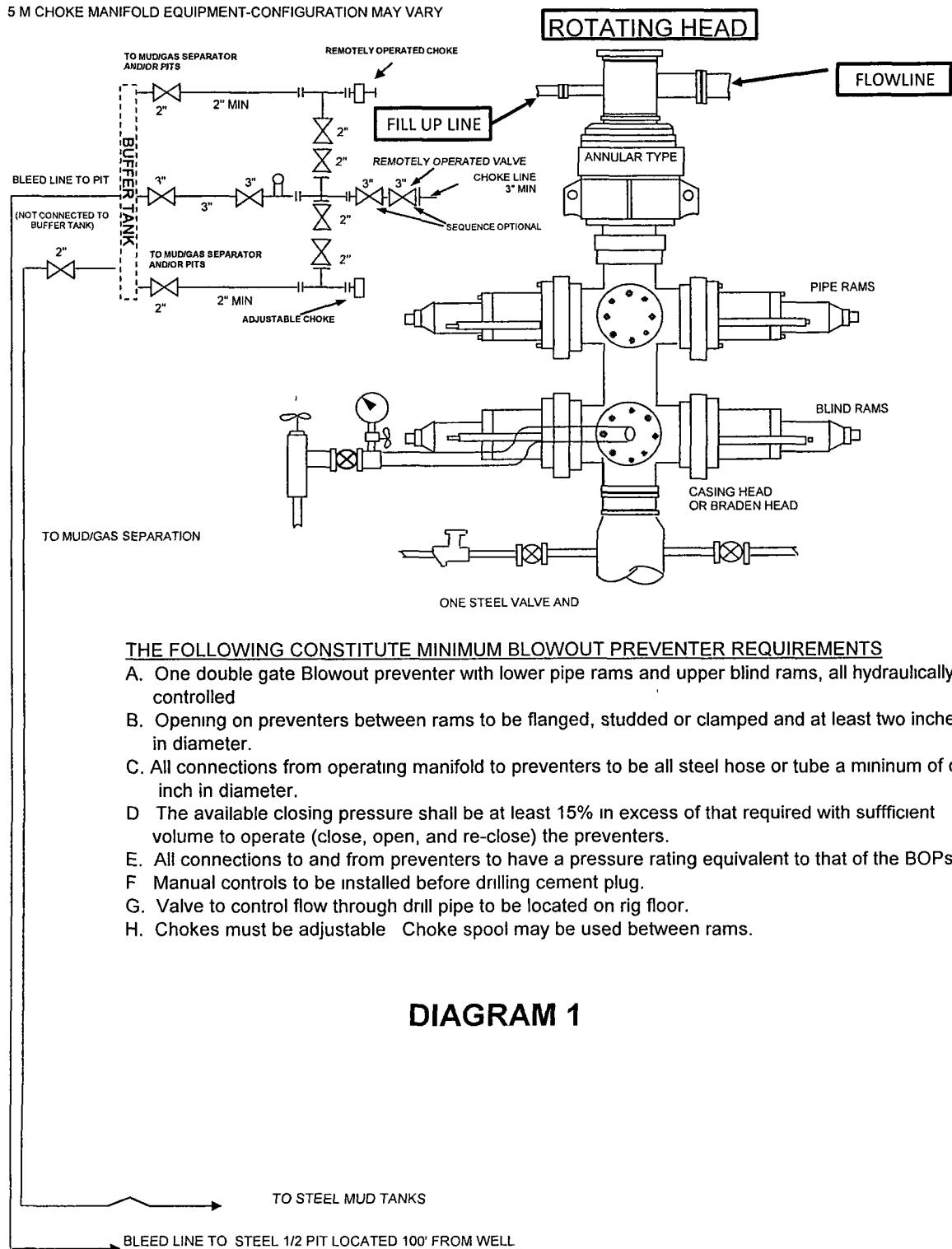


DIAGRAM 1



BOPCO, L.P.
Poker Lake Unit #327H
Sec 12, T24S-R30E
Eddy County, NM

Exhibit "D"

RIG LAYOUT SCHEMATIC
INCLUSIVE OF CLOSED-LOOP DESIGN PLAN

Solids Control Equipment Legend

- | | |
|-----------------------------------|--------------------|
| 1) Roll Off Bin | 5) Centrifuge |
| 2) Steel Tank | 6) Dewatering Unit |
| 3) Mud Cleaner | 7) Catch Tank |
| 4) Shaker | 8) Choke Manifold |
| A) Bleed line from choke manifold | |

