

ATS-11-784

OCD-ARTESIA

Form 3160-3
(April 2004)FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007UNITED 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	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	7. If Unit or CA Agreement, Name and No. Poker Lake Unit NMNM 71016D
2. Name of Operator	BOPCO, L. P. [26087]			8. Lease Name and Well No. Poker Lake Unit #326H [306402]	
3a. Address	P. O. Box 2760 Midland, TX 79702	3b. Phone No. (include area code)	432-683-2277		
4. Location of Well (Report location clearly and in accordance with any State requirements *)	At surface SESE, UL P, 200' FSL, 1025' FEL, Lat N32.196533, Long W103.863122			9. API Well No. 30-015-39479	
At proposed prod. zone 1760'FNL, 1070'FWL, Sec 22, T24S, R30E, Lat N32.205561, Lg W103.873642				10. Field and Pool, or Exploratory Poker Lake NW (Delaware) [96046]	
14. Distance in miles and direction from nearest town or post office*	17 miles east of Malaga, NM			11. Sec., T. R. M. or Blk. and Survey or Area Sec 22, T24S, R30E, Mer NMP	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	200'	16. No. of acres in lease	17. Spacing Unit dedicated to this well 1120 200		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	625'	19. Proposed Depth	20. BLM/BIA Bond No. on file 12,146' MD, 7,677 TVD COB000050		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	3398' GL	22. Approximate date work will start*	07/01/2011	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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 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). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature	Pete Lensing	Name (Printed/Typed)	Pete Lensing	Date	6/27/2011
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Title
Drilling Engineer

Approved by (Signature)	/s/ Don Peterson	Name (Printed/Typed)	/s/ Don Peterson	Date	OCT 03 2011
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Title	FIELD MANAGER	Office	CARLSBAD FIELD OFFICE		
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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 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)

CARLSBAD CONTROLLED WATER BASIN

SEE ATTACHED FOR
CONDITIONS OF APPROVALAPPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

Surface casing is to be set into the Rustler below all fresh water sands at an approximate depth of 1108' and cement circulated to surface.

7" casing will be set at approximately 8500' MD, 7725' TVD (thru curve) and cemented in two stages with DV Tool set at approximately 5000'. Top of cement at 3472': (500' above 9-5/8" casing shoe).

Production liner will be 4-1/2" with Baker hydraulic packers for zone isolation. Top of 4-1/2" liner will be 150' above 7" casing shoe at an approximate depth of 8350'.

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

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

The surface and bottom hole locations are both 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 #326H

LEGAL DESCRIPTION - SURFACE: 200' FSL, 1025' FEL, Section 22, T24S, R30E, Eddy County, NM.
BHL: 1760' FNL, 1070' FWL, Section 22, 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 3417' (estimated)
GL 3398'

FORMATION	ESTIMATED <u>TOP FROM KB</u>		ESTIMATED <u>SUB-SEA TOP</u>	BEARING
	TVD	MD		
T/Fresh Water	400	300	3,017	Fresh Water
T/Rustler	520	520	2,897	Barren
T/Salt	2,052	2,052	1,365	Barren
B/Salt	3,712	3,712	-295	Barren
T/Lamar	3,954	3,954	-537	Barren
T/Ramsey	4,049	4,049	-632	Oil/Gas
T/Lower Cherry Canyon	6,122	6,122	-2,705	Oil/Gas
KOP	7,250	7,250	-3,833	Oil/Gas
T/Lwr Brushy Canyon 8A	7,542	7,564	-4,125	Oil/Gas
T/Lwr Brushy Canyon Y Sand	7,690	7,810	-4,273	Oil/Gas
Target #1	7,727	8,356	-4,310	Oil/Gas
TD	7,677	12,146	-4,260	Oil/Gas

POINT 3: CASING PROGRAM

TYPE	INTERVALS (MD)	Hole Size	PURPOSE	CONDITION
20"	0'- 60'	24"	Conductor	Contractor Discretion
13-3/8", 48#, H-40, or 54.5#, J-55	0' - 1108'	17-1/2"	Surface	New
8rd, ST&C*				
9-5/8", 40#, J-55, 8rd, LT&C <i>See CDA</i>	0' - 3972' 3850'	12-1/4"	Intermediate	New
7", 26#, N-80, Buttress or 8rd LTC*	0' - 8500'	8-3/4"	Production	New
4-1/2", 11.6#, HCP-110, 8rd, LT&C	8350' - 12,146'	6-1/8"	Production	New

CASING DESIGN SAFETY FACTORS:

TYPE	TENSION	COLLAPSE	BURST
13-3/8", 48#, H-40, 8rd, ST&C	7.04	1.43	1.60
13-3/8", 54.5#, J-55, 8rd, STC	9.99	2.18	2.54
9-5/8", 40#, J-55, 8rd, LT&C	18.00	1.19	1.04
7", 26#, N-80, Buttress	3.79	1.46	1.08
7", 26#, N-80, 8rd, LTC	2.95	1.46	1.09
4-1/2", 11.6#, HCP-110, 8rd, LT&C	4.65	2.34	2.40

* 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 blowout preventer for 12-1/4" intermediate 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, 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.

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' - 1108'	FW Spud Mud	8.5 - 9.2	38-70	NC	NC	NC	10.0
1108' - 3972'	Brine Water	9.8 - 10.2	28-30	NC	NC	NC	9.5 - 10.5
3972' - 8500'	FW/Gel	8.7 - 9.0	28-36	NC	NC	NC	9.5 - 10.0
8500' - 12,146'	FW/Gel/Starch	8.7 - 9.0	28-36	NC	NC	<20	9.5 - 10.0

NOTE: May increase vis for logging purposes only.

POINT 6: TECHNICAL STAGES OF OPERATION *See COA*

A) TESTING

None anticipated.

B) LOGGING

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.

Mud Logger: Rigged up at 100'.

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 – 808' (100% excess Circ to surface)	650	808	ExtendaCem-C	9.20	13.5	1.75
INTERMEDIATE:						
Lead: 0' – 3472' (100% excess Circ to surface)	1200	3472	EconoCem-HLC+5% Salt+5% Gilsonite	9.32	12.9	1.85
Tail: 3472' – 3972' (100% excess)	300	500	HalCem-C	6.34	14.8	1.33
2ND INTERMEDIATE						
Stage 1:						
Lead: 5000' - 7250' (50% excess)	250	2250	EconoCem-H+1 lb/sk Silicate+5 lb/sk Gilsonite	12.18	12.2	2.28
Tail: 7250'-8500' (50% excess)	250	1250	VersaCem-H+1 lb/sk Halad+5 lb/sk Gilsonite	5.46	14.4	1.22
DV Tool @ 5,000'						
Stage 2:						
Lead: 3472'-4900' (50% excess) (TOC 500' into 9-5/8")	150	1428	EconoCem-H+1 lb/sk Silicate+5 lb/sk Gilsonite	12.18	12.2	2.28
Tail: 4900'-5000' (50% excess)	50	100	HalCem-C	6.34	14.8	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 7250' at which point a directional hole will be kicked off and drilled at an azimuth of 315.22 degrees, building angle at 12 deg/100' to 90.075 degrees at a TVD of 7727' (MD 8001'). This angle and azimuth will be maintained for 154' to a measured depth of 8355' (7727' TVD). At this point the hole will be turned at a rate of 2 deg/100' to an azimuth of 314.982. This azimuth will be maintained to a measured depth of 8500' (7725' 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 3472' (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 314.98 degrees, inclination of 90.075 degrees to a measured depth of 12146', TVD 7677'. 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 8051' (150' above 7" casing shoe).

8350

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

5

Normal pressures are anticipated throughout Delaware section. A BHP of 3415 psi (max) or MWE of 8.4 ppg is expected. Lost circulation may exist in the Delaware Section from 4165'-7887' 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

SMM/keh

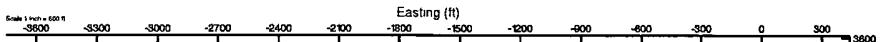


BOPCO, L.P.

Location Eddy County, NM
Field Poker Lake Unit
Facility Poker Lake Unit No. 326H

Slat No. 326H SHL
Well No. 326H
Wellbore No. 326H PWB

BAKER HUGHES
INTEQ



No 326H PBHL 7677 00ft TVD, 3270 72ft N, 3267.74ft W

No 326H PBHL
178° FNL
107° FWL

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (Y100ft)
Tie On	0 00	0 00	315 222	0 00	0 00	0 00	0 00
Est KOP	7250 00	0 00	315 222	7250 00	0 00	0 00	0 00
ECC	8000 62	90 075	315 222	7727 46	339 37	-336 75	12.00
No.326H Target #1	8355 83	90 075	315 222	7727.00	591.51	-586.94	0.00
Target Line	8392 09	90 759	314 982	7726 74	617 19	-612 53	2.00
No 326H PBHL	12146 26	90 759	314 982	7677 00	3270 72	-3267 74	0.00
							4623 39

Plot reference wellpath is Prelim_1

True vertical depths are referenced to Rig on No 326H SHL (KB)

Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet

Measured depths are referenced to Rig on No 326H SHL (KB)

North Reference: Grid north

Rig on No 326H SHL (KB) to Mean Sea Level 3417 feet

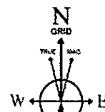
Scale: True distance

Mean Sea Level to Mud line (Facility: Poker Lake Unit No. 326H) -3398 feet

Depths are in feet

Coordinates are in feet referenced to Facility Center

Created by: gentry on 4/7/2011



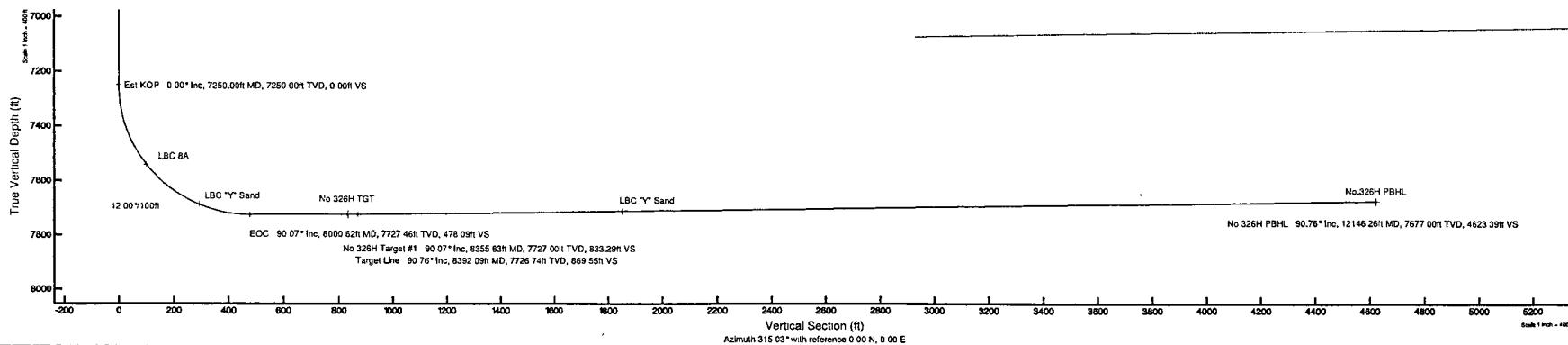
BGGM (1950 to 2012) UTM 50 12° Field: 485174 nT
Magnetic North is 7.79 degrees East of True North (as 4/6/2011)

Grid North is 0.25 degrees East of True North

To correct azimuth from True to Grid subtract 0.25 degrees

To correct azimuth from Magnetic to Grid add 7.54 degrees

For example: if the Magnetic North Azimuth = 90 degrees, then the Grid North Azimuth = 90 + 7.54 = 97.54





Planned Wellpath Report

Prelim_1

Page 1 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.326H SHL
Area	Eddy County, NM	Well	No.326H
Field	Poker Lake Unit	Wellbore	No.326H PWB
Facility	Poker Lake Unit No. 326H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Gentbry
Scale	0.999933	Report Generated	4/7/2011 at 9:43:26 AM
Convergence at slot	0.25° East	Database/Source file	WA Midland/No.326H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	645451.30	435536.93	32°11'47.522"N	103°51'47.247"W
Facility Reference Pt			645451.30	435536.93	32°11'47.522"N	103°51'47.247"W
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.326H SHL (KB) to Facility Vertical Datum	19.00ft
Horizontal Reference Pt	Facility Center	Rig on No.326H SHL (KB) to Mean Sea Level	3417.00ft
Vertical Reference Pt	Rig on No.326H SHL (KB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No.326H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	315.03°



Planned Wellpath Report

Prelim_1

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BAKER
HUGHES
INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.326H SHL
Area	Eddy County, NM	Well	No.326H
Field	Poker Lake Unit	Wellbore	No.326H PWB
Facility	Poker Lake Unit No. 326H		

TARGETS

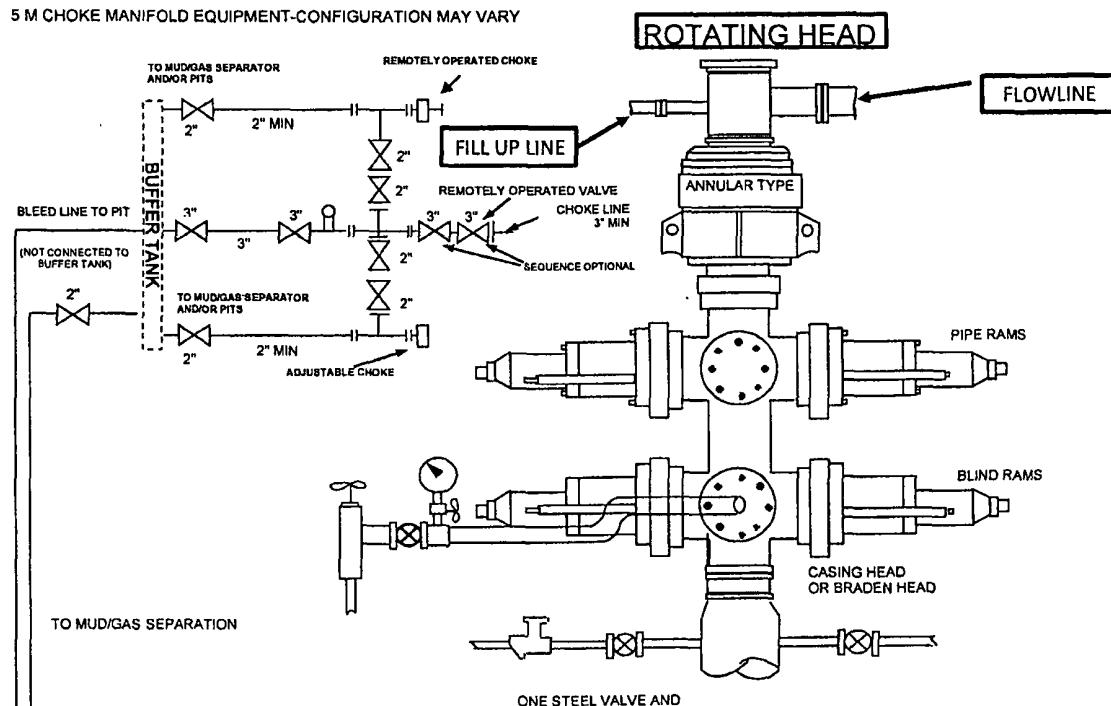
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srvt]	Grid North [srvt]	Latitude	Longitude	Shape
2) No.326H PBHL	12146.26	7677.00	3270.72	-3267.74	642183.78	438807.43	32°12'20.027"N	103°52'25.110"W	point
1) No.326H TGT	8355.83	7727.00	591.51	-586.94	644864.40	436128.40	32°11'53.401"N	103°51'54.047"W	point

SURVEY PROGRAM Ref Wellbore: No.326H PWB Ref Wellpath: Prelim_1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.00	12146.26	NaviTrak (Standard)		No.326H PWB

BOPCO, L. P.

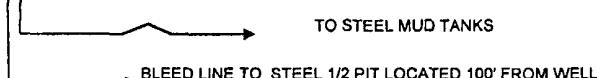
13 5/8" X 5-M WP BOPE WITH 5-M WP ANNULAR



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. One double gate Blowout preventer with lower pipe rams and upper blind rams, all hydraulically controlled.
- B. Opening on preventers between rams to be flanged, studded or clamped and at least two inches in diameter.
- C. All connections from operating manifold to preventers to be all steel hose or tube a minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate (close, open, and re-close) the preventers.
- E. All connections to and from preventers to have a pressure rating equivalent to that of the BOPs.
- F. Manual controls to be installed before drilling cement plug.
- G. Valve to control flow through drill pipe to be located on rig floor.
- H. Chokes must be adjustable. Choke spool may be used between rams.

DIAGRAM 1



DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator BOCO L.P. OGRID # 260737
 Well Name & # POKER LAKE UNIT E 326 H Surface Type (F) (S) (P)
 Location: UL P, Sect 22, Township 24, s, RNG 30 e, Sub-surface Type (F) (S) (P)

A. Date C101 rec'd 10/5/2011 C101 reviewed 10/5/2011

B. 1. Check mark, Information is OK on Forms:

OGRID ✓, BONDING ✓, PROP CODE ✓, WELL # ✓, SIGNATURE ✓

2. Inactive Well list as of: 10/5/2011 # wells 420, # Inactive wells 4

a. District Grant APD but see number of inactive wells:

No letter required ✓; Sent Letter to Operator _____, to Santa Fe _____

3. Additional Bonding as of: 10/5/2011

a. District Denial because operator needs addition bonding:

No Letter required ✓; Sent Letter to Operator _____, To Santa Fe _____

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required ✓; Sent Letter to Operator _____, To Santa Fe _____

C. C102 YES ✓, NO _____ Signature ✓ Code 96046

1. Pool POKER LAKE NW (08L) Code 96046

a. Dedicated acreage _____, What Units _____

b. SUR. Location Standard ✓: Non-Standard Location _____

c. Well shares acres: Yes ✓, No ✓, # of wells _____ plus this well # _____

2. 2nd. Operator in same acreage, Yes ✓, No ✓

Agreement Letter _____, Disagreement letter _____

3. Intent to Directional Drill Yes ✓, No _____

a. Dedicated acreage _____, What Units _____

b. Bottomhole Location Standard _____, Non-Standard Bottomhole _____

4. Downhole Commingle: Yes ✓, No _____

a. Pool #2 _____, Code _____, Acres _____

Pool #3 _____, Code _____, Acres _____

Pool #4 _____, Code _____, Acres _____

5. POTASH Area Yes ✓, No _____

D. Blowout Preventer Yes ✓, No _____

E. H2S Yes ✓, No _____

F. C144 Pit Registration Yes ✓, No _____

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes ✓, No ✓, NSL # _____

2. Non-Standard Proration: Yes ✓, No ✓, NSP # _____

3. Simultaneous Dedication: Yes ✓, No ✓, SD # _____

Number of wells _____ Plus # _____

4. Injection order Yes ✓, No ✓; PMX # _____ or WFX # _____

5. SWD order Yes ✓, NO ✓; SWD # _____

6. DHC from SF _____; DHC-HOB _____; Holding _____

7. OCD Approval Date 10/5/2011

API #30-0 15-39479

8. Reviewers DS