Form 3160-3
(April 2004)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. SHL
SHL LC061616A-NM 10697,LC063873A

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
NM 71016X

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No. (306402)
Poker Lake Unit #347H

2. Name of Operator
BOPCO, L. P. (260737)

9. API Well No.
30-015-38665

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

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

10. Field and Pool, or Exploratory (96209)
CORRAL CANYON; DEL NE

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface **NENW, UL C, 540' FNL, 1440' FWL, Lat N32.150869, Long W103.855125**
At proposed prod. zone **1315' FNL,2610' FEL, Sec 3,T25S, R30E, Lat N32.163344, Lg W103.868078**

11. Sec., T. R. M. or Blk. and Survey or Area
Sec 11, T25S, R30E, Mer NMP

14. Distance in miles and direction from nearest town or post office*
17 miles east of Malaga, NM

12. County or Parish
Eddy County

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
120'

16. No. of acres in lease
2482

17. Spacing Unit dedicated to this well
520

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
1431'

19. Proposed Depth
13,589' MD, ~~9679~~ 9738 TVD

20. BLM/BIA Bond No. on file
COB000050

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3339' GL

22. Approximate date work will start*
04/15/2011

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 Katy Holster — Name *(Printed/Typed)* **Katy Holster** — Date 1/28/11

Title **Administrative Assistant**

Approved by *(Signature)* /S/ JEANETTE MARTINEZ — Name *(Printed/Typed)* /S/ JEANETTE MARTINEZ — Date MAR 09 2011

Title FIELD MANAGER — Office CARLSBAD FIELD 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 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

RECEIVED
MAR 14 2011
NMOCD ARTESIA

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

Surface casing is to be set into the Rustler below all fresh water sands at an approximate depth of 1233' and cement circulated to surface..

7" casing will be set at approximately 8216' MD, 7738 TVD (thru curve) and cemented in two stages with DV Tool set at approximately 5000'. Cement will be circulated to surface.

Production liner will be 4-1/2" run, 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 8066'.

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 #347H
LEGAL DESCRIPTION - SURFACE: 540' FNL, 1440' FWL, Section 11, T25S, R30E, Eddy County, NM.
BHL: 1315' FNL, 2610' FEL, Section 3, T25S, 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 3358' (estimated)
GL 3339'

FORMATION	ESTIMATED TOP FROM KB TVD	MD	ESTIMATED SUB-SEA TOP	BEARING
B/Fresh Water	400'	400'	+ 2,958'	Fresh Water
T/Rustler	946'	946'	+ 2,412'	Barren
T/Salt	1,243'	1,243'	+ 2,115'	Barren
B/Salt	3,803'	3,803'	- 445'	Barren
T/Lamar	4,015'	4,015'	- 657'	Barren
T/Ramsey	4,060'	4,060'	- 702'	Oil/Gas
T/Lower Cherry Canyon	6,074'	6,074'	- 2,716'	Oil/Gas
KOP	7,261'	7,261'	- 3,903'	Oil/Gas
T/Lwr Brushy Canyon	7,551'	7,573'	- 4,193'	Oil/Gas
LBC "Y" Sand	7,718'	7,879'	- 4,360'	Oil/Gas
EOC	7,738'	8,016'	- 4,380'	Oil/Gas
TD Horizontal Hole	7,678'	13,589'	- 4,320'	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, 8rd, ST&C or 54.5#, J-55*	0' - 1233'	17-1/2"	Surface	New
9-5/8", 40#, J-55, 8rd, LT&C	0' - 4035'	12-1/4"	Intermediate	New
7", 26#, N-80, Buttress or LTC*	0' - 8216'	8-3/4"	Production	New
4-1/2", 11.6#, HCP-110, 8rd, LT&C	8066' – 13,590'	6-1/8"	Production	New

CASING DESIGN SAFETY FACTORS:

TYPE	TENSION	COLLAPSE	BURST
13-3/8", 48#, H-40, 8rd, ST&C	6.28	1.27	1.42
13-3/8", 54.5#, J-55, 8rd, STC	8.82	1.94	2.24
9-5/8", 40#, J-55, 8rd, LT&C	15.29	1.32	1.07
7", 26#, N-80, 8rd, LTC	2.97	1.32	1.07
7", 26#, N-80, Buttress	4.32	1.46	1.08
4-1/2", 11.6#, HCP-110, 8rd, LT&C	3.62	1.91	2.19

*** 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 a 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.

2^{ND} 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 5000 psi dual ram BOP's with mud cross, choke manifold, chokes, and hydril s per Diagram 1 (5000 psi WP). The BOP stack, 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 BOPE when rigged up on the 9-5/8" intermediate casing spool will consist of annular, pipe & blind rams with choke manifold and chokes as in Diagram 1 and 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. Hydril will be tested to 2500 psig.

The BOPE when rigged up on the 7" intermediate casing spool will consist of annular, pipe & blind rams with choke manifold and chokes as in Diagram 1 and 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. Hydril will be tested to 2500 psig. These tests will be performed:

a) Upon installation
b) After any component changes
c) 30 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' - 1233'	FW Spud Mud	8.5 – 9.2	38-70	NC	NC	NC	10.0
1233' - 4035'	Brine Water	9.8 – 10.2	28-30	NC	NC	NC	9.5 – 10.5
4035' - 8216'	FW/Gel	8.7 – 9.0	28-36	NC	NC	NC	9.5 – 10.0
8216' – 13,589'	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

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 will be rigged up at 3800'.

C) CONVENTIONAL CORING

None anticipated.

D) CEMENT

INTERVAL	AMOUNT SXS	FT OF FILL	TYPE	GALS/SX	PPG	FT^3/SX
SURFACE:						
Lead: 0 – 933' (100% excess Circ to surface)	700	933	Class "C" 35/65+6% gel +3pps star-seal+.04% FL10+0.25% R-38+5% salt	9.95	12.8	1.91
Tail: 933' – 1233' (100% excess)	350	300	Class "C" + 2% $CaCl_2$+3lb star-seal+0.25% R-38	6.12	14.8	1.36
INTERMEDIATE:						
Lead: 0' – 3535' (100% excess Circ to surface)	1200	3535	Class "C" 35/65+6% gel +3pps star-seal+.04% FL10+0.25% R-38+5% salt	9.95	12.8	1.91
Tail: 3535' – 4035' (100% excess)	300	500	Class "C" + 2% $CaCl_2$+ 0.25% R-38	6.34	14.8	1.35
2^{ND} INTERMEDIATE						
Stage 1:						
Lead: 5000' - 7261' (50% excess)	250	2261	RSS Micro+.5% FMS+ 0.3% FL10+0.8% C-12 +3pps Gilsonite+0.25 R-38	10.09	10.5	2.41
Tail: 7261'-8216' (50% excess)	175	955	RSS Micro+0.2% C-37+ 0.2%+C-12+0.2% FL10+ +0.25% R-38	7.03	13.0	1.38
DV Tool @ 5,000'						
Stage 2:						
Lead: 0' – 4900' (50% excess) (TOC 500' into 9-5/8")	500	4900	RSS Micro+35% FMS+ 0.5% C-12+3pps Gilsonite +0.5% R-38	10.16	10.5	2.42
Tail: 4900'-5000' (50% excess)	50	100	Cass "C" + 0.20% R-38	6.31	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 7261' at which a directional hole will be kicked off and drilled at an azimuth of 138.29 degrees, building angle at 12 deg/ 100' to 90.62 degrees at a TVD of 7738' (MD 8015'). This angle and azimuth will be maintained for 200' to a measured depth of 8015' (7738' TVD). At this depth 7", 26#, N80, Buttress, casing will be installed and cemented in two stages (DV Tool @ approximately 5000') with cement being circulated to surface. A 6-1/8" open hole lateral will then be drilled out from 7" casing at an azimuth of 318.29 degrees, inclination of 90.62 degrees to a measured depth of 13,589', TVD 7678'. 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.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

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 4094'-7660' TVD. No H_2S 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

Weatherford®

Drilling Services

Proposal

BOPCO, L.P.

POKER LAKE UNIT #347H

EDDY CO NM

WELL FILE: **PLAN 1**

DECEMBER 29, 2010

Weatherford International, Ltd.
P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com

BOPCO, L.P.

Poker Lake Unit 347H
Eddy Co, NM

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	318.29	0.00	0.00	0.00	0.00	0.00	0.00	
2	7260.56	0.00	318.29	7260.56	0.00	0.00	0.00	0.00	0.00	
3	8015.70	90.62	318.29	7738.00	360.26	-321.13	12.00	318.29	482.60	
4	13589.33	90.62	318.29	7678.00	4520.65	-4029.61	0.00	0.00	6055.91	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

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	7551.00	7572.78	Lower Brushy Canyon

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Poker Lake Unit 347H	0.00	0.00	418936.56	647999.81	32°09'03.132N	103°51'18.447W	N/A

SITE DETAILS

Poker Lake Unit 347H

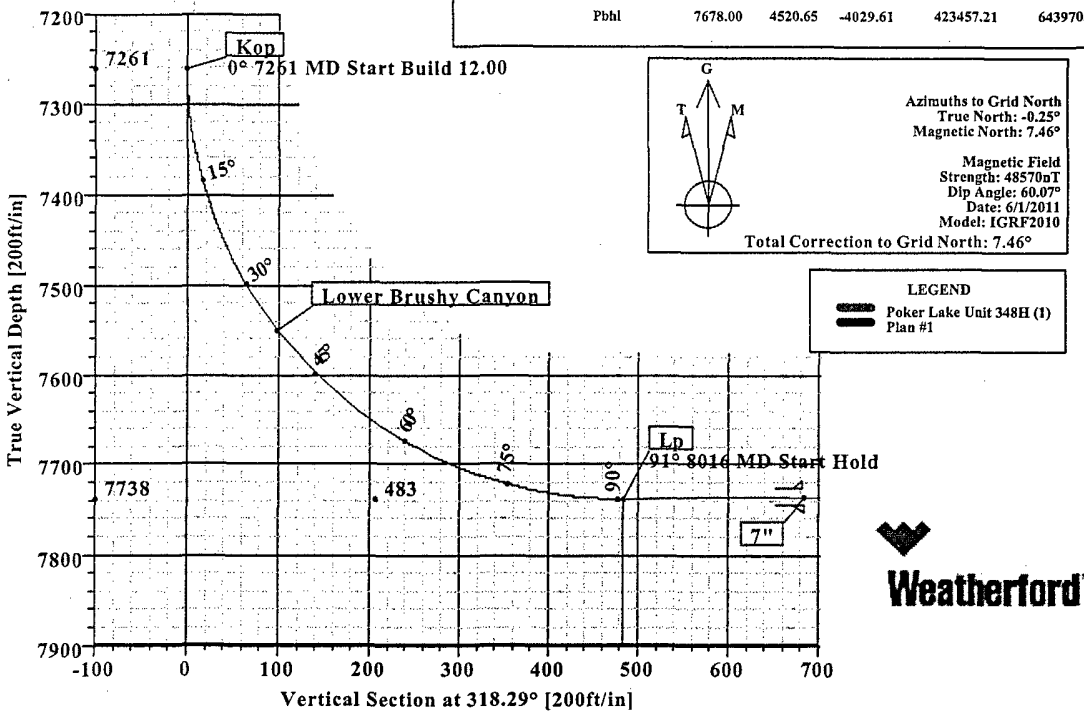
Site Centre Northing: 418936.56
Easting: 647999.81

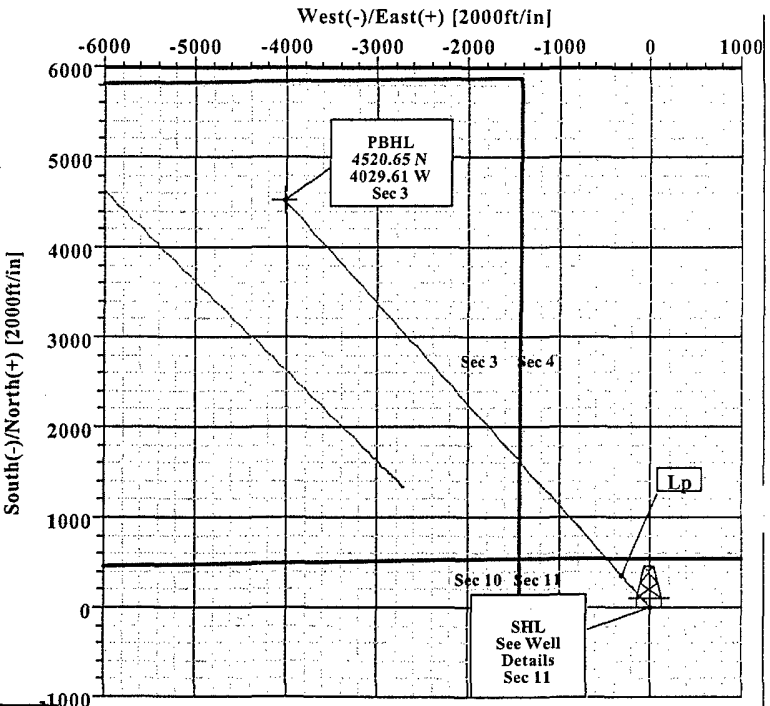
Ground Level: 3339.00
Positional Uncertainty: 0.00
Convergence: 0.25

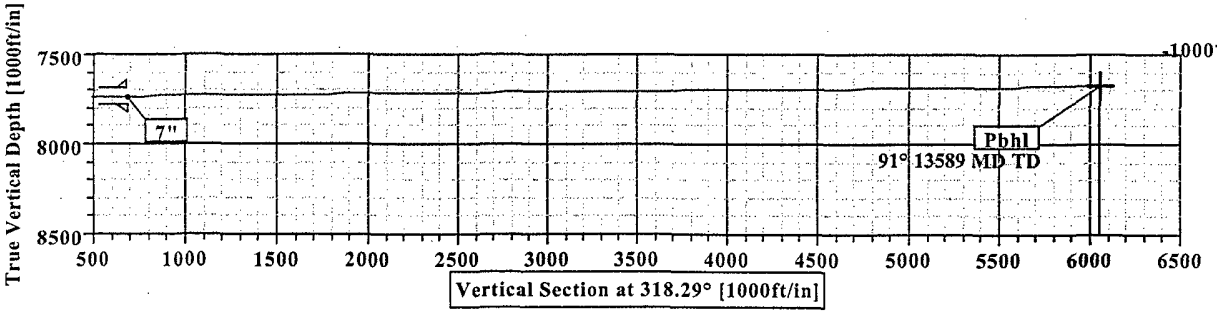
TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	7678.00	4520.65	-4029.61	423457.21	643970.19	Point

KB ELEV: 3358
GL ELEV: 3339







Weatherford

Plan: Plan #1 (Poker Lake Unit 347H/1)

Created By: Russell W. Joyner Date: 12/29/2010

Weatherford International Ltd.
WFT Plan Report - X & Y's

Weatherford

Company:	BOPCO, L.P.	**Date:** 12/29/2010	**Time:** 13:43:35	**Page:**	1
Field:	Eddy County, NM (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Poker Lake Unit 347H, Grid North		
Site:	Poker Lake Unit 347H	**Vertical (TVD) Reference:**	SITE 3358.0		
Well:	Poker Lake Unit 347H	**Section (VS) Reference:**	Well (0.00N,0.00E,318.29Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Plan:	Plan #1	**Date Composed:**	12/29/2010
		Version:	1
Principal:	Yes	***Tied-to:***	*From Surface*

Field:	Eddy County, NM (Nad 27)		
Map System:	US 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 347H				
Site Position:		**Northing:**	418936.56 ft	**Latitude:**	32 9 3.132 N
From:	Map	**Easting:**	647999.81 ft	**Longitude:**	103 51 18.447 W
Position Uncertainty:	0.00 ft			**North Reference:**	Grid
Ground Level:	3339.00 ft			**Grid Convergence:**	0.25 deg

Well:	Poker Lake Unit 347H				**Slot Name:**		
Well Position:	**+N/-S**	0.00 ft	**Northing:**	418936.56 ft	**Latitude:**	32 9 3.132 N	
	+E/-W	0.00 ft	**Easting:**	647999.81 ft	**Longitude:**	103 51 18.447 W	
Position Uncertainty:		0.00 ft					

Wellpath:	1			**Drilled From:**	Surface
				Tie-on Depth:	0.00 ft
Current Datum:	SITE	**Height**	3358.00 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	6/1/2011			**Declination:**	7.72 deg
Field Strength:	48570 nT			**Mag Dip Angle:**	60.07 deg

Vertical Section:	**Depth From (TVD)**	**+N/-S**	**+E/-W**	**Direction**
	ft	ft	ft	deg
	0.00	0.00	0.00	318.29

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	318.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7260.56	0.00	318.29	7260.56	0.00	0.00	0.00	0.00	0.00	0.00	
8015.70	90.62	318.29	7738.00	360.26	-321.13	12.00	12.00	0.00	318.29	
13589.33	90.62	318.29	7678.00	4520.65	-4029.61	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
7200.00	0.00	318.29	7200.00	0.00	0.00	0.00	0.00	418936.56	647999.81	
7260.56	0.00	318.29	7260.56	0.00	0.00	0.00	0.00	418936.56	647999.81	Kop
7300.00	4.73	318.29	7299.96	1.22	-1.08	1.63	12.00	418937.78	647998.72	
7400.00	16.73	318.29	7398.03	15.09	-13.45	20.22	12.00	418951.65	647986.36	
7500.00	28.73	318.29	7490.09	43.88	-39.12	58.79	12.00	418980.45	647960.69	
7572.78	37.47	318.29	7551.00	73.52	-65.54	98.49	12.00	419010.09	647934.27	Lower Brushy Canyo
7600.00	40.73	318.29	7572.12	86.34	-76.96	115.66	12.00	419022.90	647922.85	
7700.00	52.73	318.29	7640.54	140.59	-125.32	188.34	12.00	419077.16	647874.48	
7800.00	64.73	318.29	7692.35	204.28	-182.09	273.66	12.00	419140.85	647817.71	
7900.00	76.73	318.29	7725.28	274.62	-244.79	367.89	12.00	419211.18	647755.01	
8000.00	88.73	318.29	7737.91	348.54	-310.68	466.90	12.00	419285.10	647689.13	
8015.70	90.62	318.29	7738.00	360.26	-321.13	482.60	12.00	419296.82	647678.68	Lp
8100.00	90.62	318.29	7737.09	423.18	-377.21	566.90	0.00	419359.74	647622.59	
8200.00	90.62	318.29	7736.02	497.82	-443.75	666.89	0.00	419434.39	647556.06	
8215.70	90.62	318.29	7735.85	509.54	-454.20	682.59	0.00	419446.11	647545.61	7"
8300.00	90.62	318.29	7734.94	572.47	-510.29	766.89	0.00	419509.03	647489.52	
8400.00	90.62	318.29	7733.86	647.11	-576.82	866.88	0.00	419583.68	647422.98	

Weatherford International Ltd.

WFT Plan Report - X & Y's

Weatherford

Company:	BOPCO, L.P.	**Date:** 12/29/2010	**Time:** 13:43:35	**Page:**	2
Field:	Eddy County, NM (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Poker Lake Unit 347H, Grid North		
Site:	Poker Lake Unit 347H	**Vertical (TVD) Reference:**	SITE 3358.0		
Well:	Poker Lake Unit 347H	**Section (VS) Reference:**	Well (0.00N,0.00E,318.29Azi)		
Wellpath:	1	**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
8500.00	90.62	318.29	7732.79	721.76	-643.36	966.87	0.00	419658.32	647356.45	
8600.00	90.62	318.29	7731.71	796.40	-709.90	1066.87	0.00	419732.96	647289.91	
8700.00	90.62	318.29	7730.63	871.05	-776.43	1166.86	0.00	419807.61	647223.37	
8800.00	90.62	318.29	7729.56	945.69	-842.97	1266.86	0.00	419882.25	647156.84	
8900.00	90.62	318.29	7728.48	1020.33	-909.50	1366.85	0.00	419956.90	647090.30	
9000.00	90.62	318.29	7727.40	1094.98	-976.04	1466.84	0.00	420031.54	647023.77	
9100.00	90.62	318.29	7726.33	1169.62	-1042.58	1566.84	0.00	420106.18	646957.23	
9200.00	90.62	318.29	7725.25	1244.27	-1109.11	1666.83	0.00	420180.83	646890.69	
9300.00	90.62	318.29	7724.17	1318.91	-1175.65	1766.83	0.00	420255.47	646824.16	
9400.00	90.62	318.29	7723.10	1393.56	-1242.19	1866.82	0.00	420330.12	646757.62	
9500.00	90.62	318.29	7722.02	1468.20	-1308.72	1966.82	0.00	420404.76	646691.08	
9600.00	90.62	318.29	7720.95	1542.84	-1375.26	2066.81	0.00	420479.41	646624.55	
9700.00	90.62	318.29	7719.87	1617.49	-1441.80	2166.80	0.00	420554.05	646558.01	
9800.00	90.62	318.29	7718.79	1692.13	-1508.33	2266.80	0.00	420628.69	646491.48	
9900.00	90.62	318.29	7717.72	1766.78	-1574.87	2366.79	0.00	420703.34	646424.94	
10000.00	90.62	318.29	7716.64	1841.42	-1641.40	2466.79	0.00	420777.98	646358.40	
10100.00	90.62	318.29	7715.56	1916.07	-1707.94	2566.78	0.00	420852.63	646291.87	
10200.00	90.62	318.29	7714.49	1990.71	-1774.48	2666.78	0.00	420927.27	646225.33	
10300.00	90.62	318.29	7713.41	2065.35	-1841.01	2766.77	0.00	421001.92	646158.79	
10400.00	90.62	318.29	7712.33	2140.00	-1907.55	2866.76	0.00	421076.56	646092.26	
10500.00	90.62	318.29	7711.26	2214.64	-1974.09	2966.76	0.00	421151.20	646025.72	
10600.00	90.62	318.29	7710.18	2289.29	-2040.62	3066.75	0.00	421225.85	645959.19	
10700.00	90.62	318.29	7709.10	2363.93	-2107.16	3166.75	0.00	421300.49	645892.65	
10800.00	90.62	318.29	7708.03	2438.57	-2173.69	3266.74	0.00	421375.14	645826.11	
10900.00	90.62	318.29	7706.95	2513.22	-2240.23	3366.73	0.00	421449.78	645759.58	
11000.00	90.62	318.29	7705.87	2587.86	-2306.77	3466.73	0.00	421524.43	645693.04	
11100.00	90.62	318.29	7704.80	2662.51	-2373.30	3566.72	0.00	421599.07	645626.50	
11200.00	90.62	318.29	7703.72	2737.15	-2439.84	3666.72	0.00	421673.71	645559.97	
11300.00	90.62	318.29	7702.64	2811.80	-2506.38	3766.71	0.00	421748.36	645493.43	
11400.00	90.62	318.29	7701.57	2886.44	-2572.91	3866.71	0.00	421823.00	645426.89	
11500.00	90.62	318.29	7700.49	2961.08	-2639.45	3966.70	0.00	421897.65	645360.36	
11600.00	90.62	318.29	7699.42	3035.73	-2705.99	4066.69	0.00	421972.29	645293.82	
11700.00	90.62	318.29	7698.34	3110.37	-2772.52	4166.69	0.00	422046.93	645227.29	
11800.00	90.62	318.29	7697.26	3185.02	-2839.06	4266.68	0.00	422121.58	645160.75	
11900.00	90.62	318.29	7696.19	3259.66	-2905.59	4366.68	0.00	422196.22	645094.21	
12000.00	90.62	318.29	7695.11	3334.31	-2972.13	4466.67	0.00	422270.87	645027.68	
12100.00	90.62	318.29	7694.03	3408.95	-3038.67	4566.67	0.00	422345.51	644961.14	
12200.00	90.62	318.29	7692.96	3483.59	-3105.20	4666.66	0.00	422420.16	644894.60	
12300.00	90.62	318.29	7691.88	3558.24	-3171.74	4766.65	0.00	422494.80	644828.07	
12400.00	90.62	318.29	7690.80	3632.88	-3238.28	4866.65	0.00	422569.44	644761.53	
12500.00	90.62	318.29	7689.73	3707.53	-3304.81	4966.64	0.00	422644.09	644695.00	
12600.00	90.62	318.29	7688.65	3782.17	-3371.35	5066.64	0.00	422718.73	644628.46	
12700.00	90.62	318.29	7687.57	3856.81	-3437.88	5166.63	0.00	422793.38	644561.92	
12800.00	90.62	318.29	7686.50	3931.46	-3504.42	5266.62	0.00	422868.02	644495.39	
12900.00	90.62	318.29	7685.42	4006.10	-3570.96	5366.62	0.00	422942.67	644428.85	
13000.00	90.62	318.29	7684.34	4080.75	-3637.49	5466.61	0.00	423017.31	644362.31	
13100.00	90.62	318.29	7683.27	4155.39	-3704.03	5566.61	0.00	423091.95	644295.78	
13200.00	90.62	318.29	7682.19	4230.04	-3770.57	5666.60	0.00	423166.60	644229.24	
13300.00	90.62	318.29	7681.11	4304.68	-3837.10	5766.60	0.00	423241.24	644162.70	
13400.00	90.62	318.29	7680.04	4379.32	-3903.64	5866.59	0.00	423315.89	644096.17	
13500.00	90.62	318.29	7678.96	4453.97	-3970.17	5966.58	0.00	423390.53	644029.63	
13589.33	90.62	318.29	7678.00	4520.65	-4029.61	6055.91	0.00	423457.21	643970.19	Pbhl

Weatherford International Ltd.

WFT Plan Report - X & Y's

Weatherford

Company:	BOPCO, L.P.	**Date:** 12/29/2010 **Time:** 13:43:35	**Page:** 3
Field:	Eddy County, NM (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Poker Lake Unit 347H, Grid North
Site:	Poker Lake Unit 347H	**Vertical (TVD) Reference:**	SITE 3358.0
Well:	Poker Lake Unit 347H	**Section (VS) Reference:**	Well (0.00N,0.00E,318.29Azi)
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<— Latitude —> Deg	Min	Sec	<— Longitude —> Deg	Min	Sec
Pbhl			7678.00	4520.65	-4029.61	423457.21	643970.19	32	9	48.043 N	103	52	5.091 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
4200.00	4200.00	9.625	12.250	9 5/8"
8215.70	7735.85	7.000	8.750	7"

Annotation

MD ft	TVD ft	
7260.56	7260.56	Kop
8015.70	7738.00	Lp
13589.33	7678.00	Pbhl

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
7572.78	7551.00	Lower Brushy Canyon		0.00	0.00
	0.00	LBC "Y" Sand		0.00	0.00

Weatherford

Weatherford Drilling Services

GeoDec v5.03

Report Date:	December 29, 2010
Job Number:	
Customer:	BOPCO
Well Name:	Poker Lake Unit #347H
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 418936.560 USFT	Latitude 32.1508699 DEG
East/West 647999.810 USFT	Longitude -103.8551241 DEG
Grid Convergence: .25°	
Total Correction: +7.47°	

Geodetic Location WGS84	Elevation = 0.0 Meters	
Latitude =	32.15087° N	32° 9 min 3.132 sec
Longitude =	103.85512° W	103° 51 min 18.447 sec

Magnetic Declination =	7.72°	[True North Offset]	
Local Gravity =	.9988 g	CheckSum =	6640
Local Field Strength =	48566 nT	Magnetic Vector X =	24012 nT
Magnetic Dip =	60.07°	Magnetic Vector Y =	3254 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42089 nT
Spud Date =	Jun 01, 2011	Magnetic Vector H =	24231 nT

Signed:_____ Date:_____

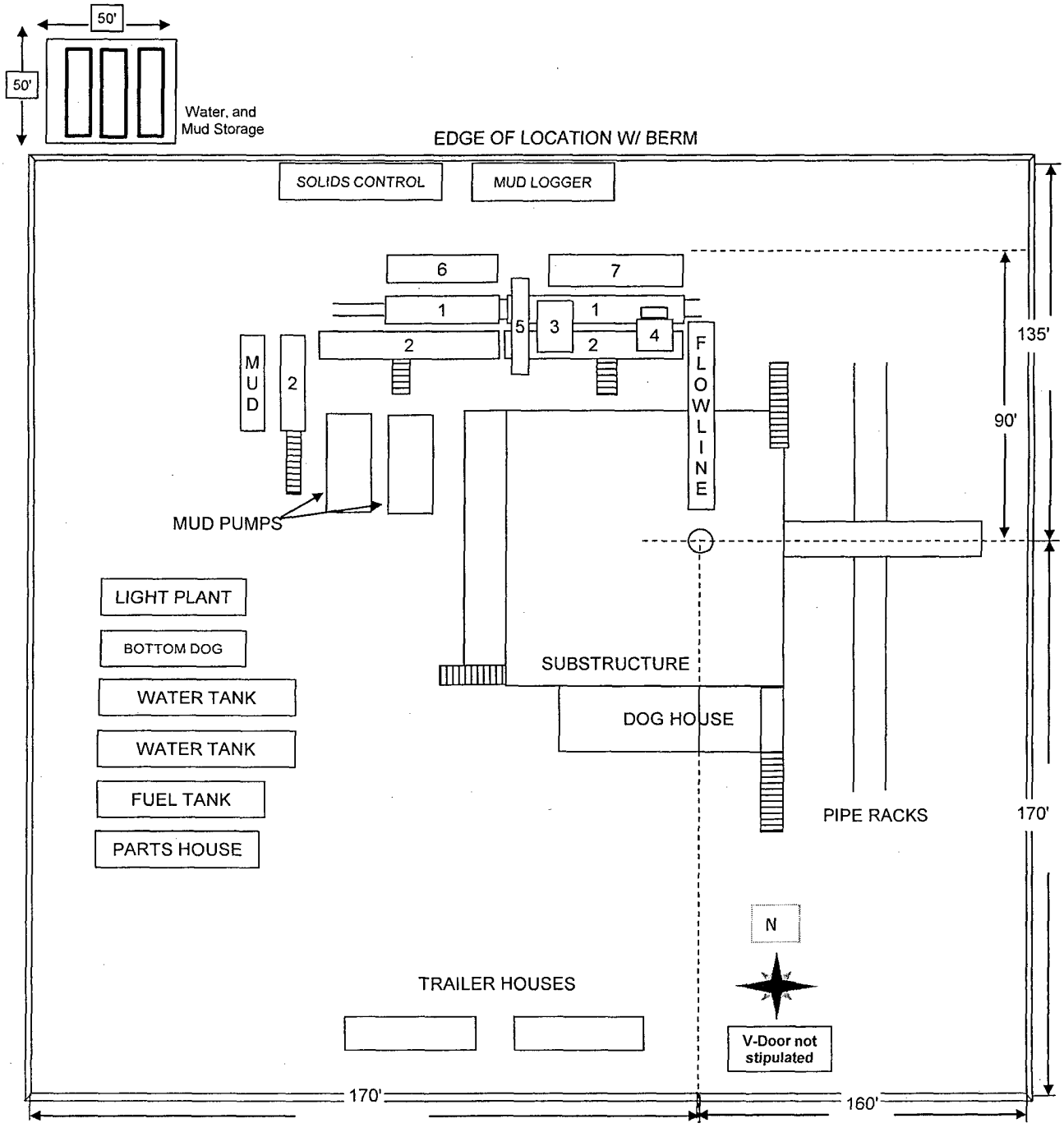
Exhibit "D"

BOPCO, L.P.
Poker Lake Unit #347H
Sec 11, T25S-R30E
Eddy County, NM

RIG LAYOUT SCHEMATIC
INCLUSIVE OF CLOSED-LOOP DESIGN PLAN

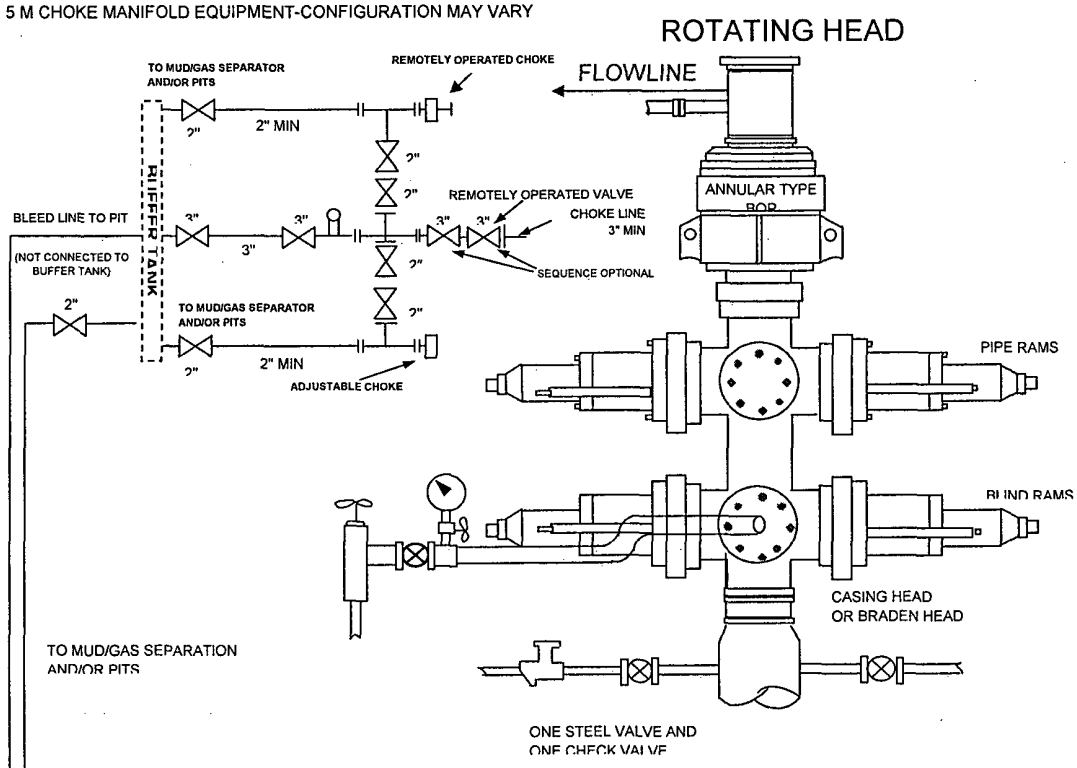
Solids Control Equipment Legend

1) Roll Off Bin
2) Steel Tank
3) Mud Cleaner
4) Shaker
5) Centrifuge
6) Dewatering Unit
7) Catch Tank



BOPCO, L. P.
5-M WP BOPE WITH 5-M WP ANNULAR

5 M CHOKE MANIFOLD EQUIPMENT-CONFIGURATION MAY VARY



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 mininum of one inch in diameter.
D. The available closing pressure shall be at least 15% in excess of that required with suffficient 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

TO STEEL MUD TANKS See COA

BLEED LINE TO CIRCULATING PITS (10' FROM RIG) (NOT CONNECTED TO BUFFER TANK)
Flare Pits (min. 100' from wellhead)

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator BOPCO LP OGRID # 260737

306402 Well Name & # POKER LAKE UNIT # 347H Surface Type (F) (S) (P)

Location: UL C Sect 11, Twnship 25 s, RNG 30 e, Sub-surface Type (F) (S) (P)

B 3 25 30

A. Date C101 rec'd ____/____/____ C101 reviewed ____/____/____

B. 1. Check mark, Information is OK on Forms:
OGRID X, BONDING FED PROP CODE X, WELL # X, SIGNATURE ____
2. Inactive Well list as of: 4/4/11 # wells 403, # Inactive wells 6
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: ____/____/____
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 ___

overlap with M 016-27434

C. C102 YES___, NO ___, Signature ____
1. Pool CORRAL CANYON; DEL, NE Code 96209
a. Dedicated acreage 320, What Units 31 B, C, F, G, H, I, J P 32 L, M, N 11: C, D
b. SUR. Location Standard X Non-Standard Location ____
c. Well shares acres: Yes ___, No ___, # of wells ____ plus this well #____
2. 2nd. Operator in same acreage, Yes____, No X
Agreement Letter ____, Disagreement letter____
3. Intent to Directional Drill Yes X No ____
a. Dedicated acreage 320, What Units ____
b. Bottomhole Location Standard X, 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 FED

D. Blowout Preventer Yes ____, No ____,

E. H2S Yes ____, No ____,

F. C144 Pit Registration Yes ____, No X, need

G. Does APD require Santa Fe Approval:
1. Non-Standard Location: Yes ____, No X, NSL #____
2. Non-Standard Proration: Yes____, No X, NSP # ____
3. Simultaneous Dedication: Yes ____, No X, SD # ____
Number of wells ____ Plus #____
4. Injection order Yes ____, No X; PMX #____ or WFX #____
5. SWD order Yes ____, NO X; SWD # ____
6. DHC from SF____; DHC-HOB____; Holding____

7. OCD Approval Date ____/____/____ API #30-015-38668
8. Reviewers____