CONDITIONS OF APPROVAL

#### OCD-ARTESIA

Form 3160-3 (April 2004)			OMB No 100 Expires March	04-0137	
UNITED STATES DEPARTMENT OF THE	5 Lease Serial No. (BHL) NM 030450				
BUREAU OF LAND MAN			6 If Indian, Allotee or Tribe Name		
APPLICATION FOR PERMIT TO	URILL OR RECIVIER		See pg 1 of 8pt DI	' for lease info.	
la. Type of work DRILL REENTE	ER		7 If Unit or CA Agreeme NMNM 71016X	nt, Name and No	
lb. Type of Well.	Single Zone Mult	ple Zone	8 Lease Name and Well Poker Lake Unit 3		2
Name of Operator BOPCO, L. P.		ч	9 API Well No.	4/25/6	
3a Address P. O. Box 2760 Midland, TX 79702	3b Phone No. (include area code) 432-683-2277		10. Field and Pool, or Expl	,00	
4. Location of Well (Report location clearly and in accordance with an	ry State requirements *)		11 Sec, T R M or Blk a	nd Survey or Area	Ú
At surface SWSW,UL M, 30' FSL & 1125' FW At proposed prod zone 1000' FSL&100' FWL,Sec12-T25S-	-		Sec 2, T25S-R30E	, Mer, NMP 29620	
14 Distance in miles and direction from nearest town or post office* 20 miles East of Malaga			12 County or Parish Eddy	13 State	
15 Distance from proposed* location to nearest 1125'	16 No of acres in lease	17. Spacii	ng Unit dedicated to this well		
property or lease line, ft (Also to nearest drig unit line, if any)	5844.86	520		-	
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20. BLM	BIA Bond No. on file		
applied for, on this lease, ft. appx 690'	13,671' MD \ 7775' TVD		OB 000050		
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 3344'	22. Approximate date work will sta 09/01/2012	ırt*	23 Estimated duration 30 Days		
	24. Attachments				
The following, completed in accordance with the requirements of Onshor	re Oil and Gas Order No 1, shall be a	ttached to the	nis form		
<ol> <li>Well plat certified by a registered surveyor</li> <li>A Drilling Plan</li> <li>A Surface Use Plan (if the location is on National Forest System</li> </ol>	Item 20 above)	•	ons unless covered by an exis	sting bond on file (see	
SUPO shall be filed with the appropriate Forest Service Office)		specific inf	formation and/or plans as ma	y be required by the	
25. Signature	Name (Printed/Typed)  Jeremy Braden		Dat	2-8-12	
Title Engineering Assistant			······································		
Approved by (Signature) James A. Amos	Name (Printed/Typed)		Da	tc 308 1 1 201	2
Title FIELD MANAGER	Office CAR	RLSBAD	FIELD OFFICE	S O S S S S S S S S S S S S S S S S S S	
Application approval does not warrant or certify that the applicant hold conduct operations thereon.  Conditions of approval, if any, are attached.	s legal or equitable title to those righ	nts in the su		or TWO YEARS	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr. States any false, fictitious or fraudulent statements or representations as t	rime for any person knowingly and v	willfully to 1			
		_=	•		
(1.10.1 NOTO ) P = 2/	NSL				
DE	NSL 18/2012		Approval Subject	to General Requireme	nt
KECEIVED	7		& Special S	tipulations Attached	
JUN 1 3 2012					
JUN 1 3 2012  NMOCD ARTESIA		SEI	E ATTACHEI	) FOR	

State of New Mexico Energy, Minerals and Natural Resources Department CD ARTESIA one copy to appropriate Office

JUN 13 2012

RECEIVED

Form C-102

District Office

#### OIL CONSERVATION DIVISION

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

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

1625 N. French Dr., Hobbs, NM 88240

1301 W. Grand Avenue, Artesia, NM 88210

SISTRICT I

DISTRICT II

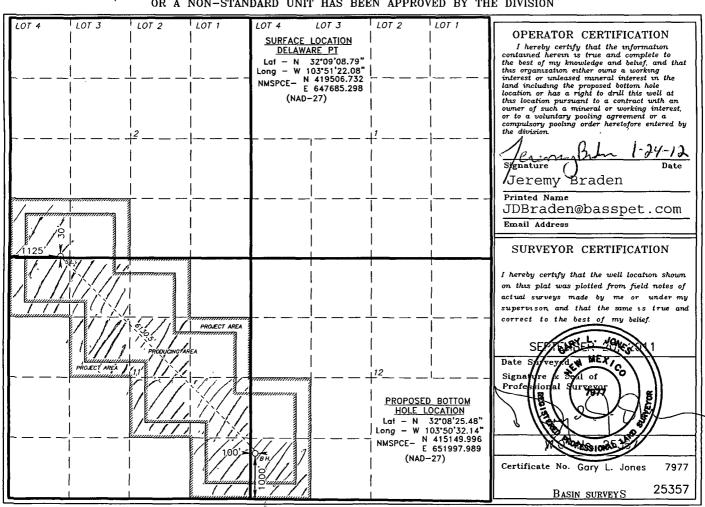
DISTRICT III

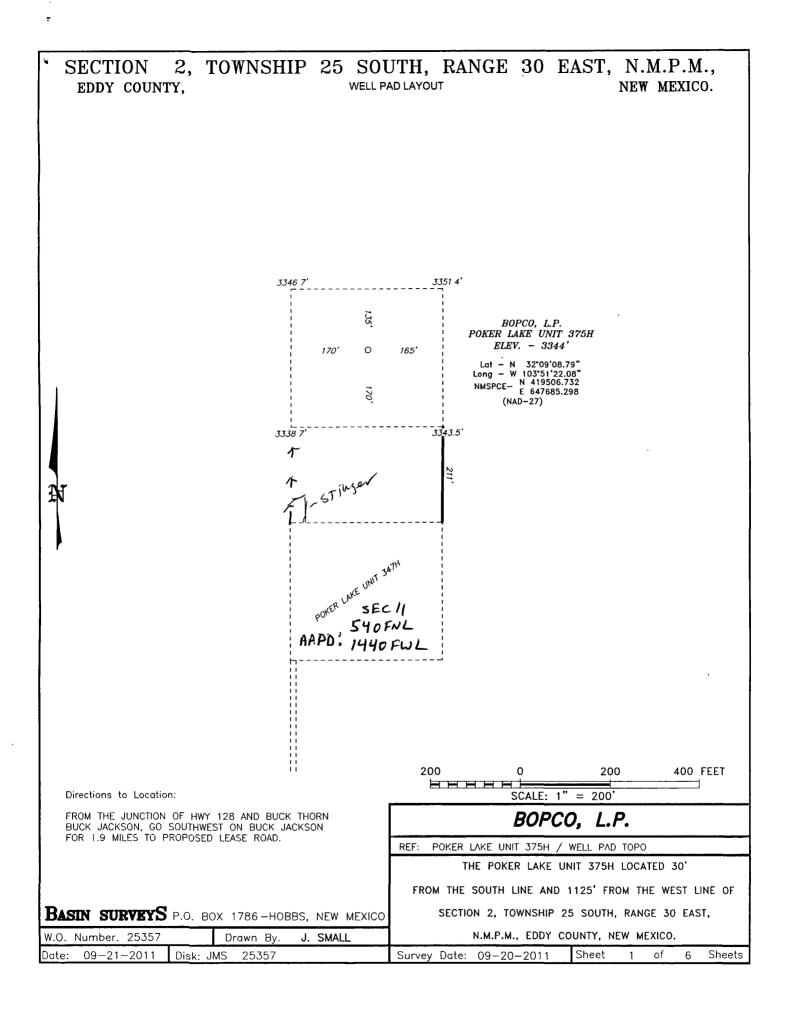
WELL LOCATION AND ACREAGE DEDICATION PLAT

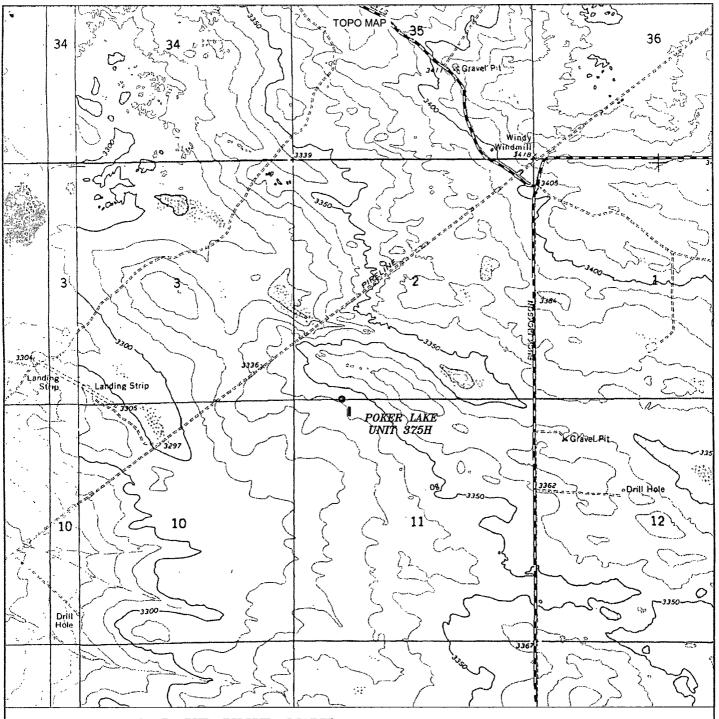
□ AMENDED REPORT

3()-()(C-4)25/ Pool Code 96047-					PAL CAN	MPost Name	el., Nie	<u> </u>	
Property (	Code /C	ide G/209 Property Name Well Number							
306402 ogrid no 26073	).		POKER LAKE UNIT  Operator Name BOPCO, L.P.  375H  Elevation 3344'					ion	
Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
М	2 ,	25 S	30 E		30	SOUTH	1125	WEST	EDDY
			Bottom	Hole Loc	eation If Diffe	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
М	12	25 S	30 E		1000	SOUTH	100	WEST	EDDY
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				
NO ALLO	WABLE W	TLL BE AS	SIGNED '	ro THIS	COMPLETION U	JNTIL ALL INTER	RESTS HAVE BI	EEN CONSOLIDA	ATED

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION







POKER LAKE UNIT 375H Located 30' FSL and 1125' FWL Section 2, Township 25 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

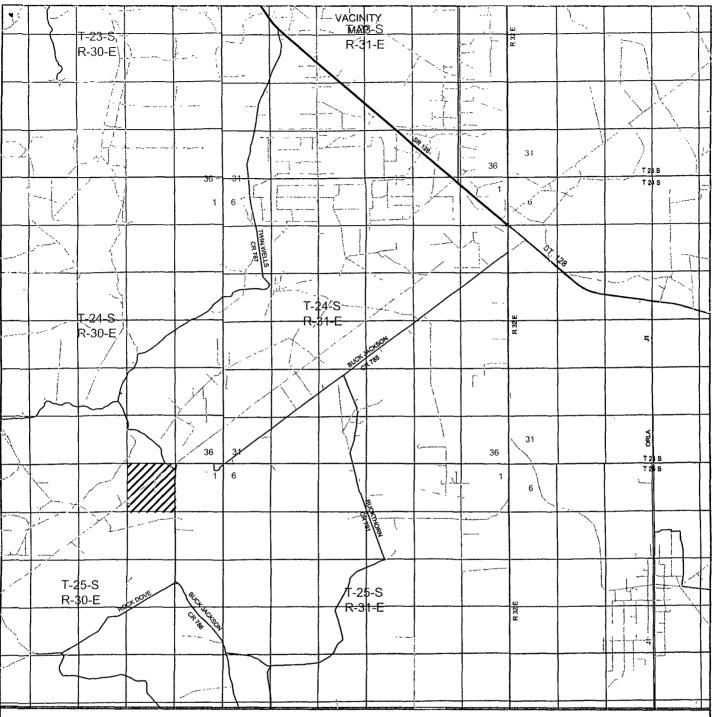
-	W.O. N	umber:	JMS	25357
	Survey	Date:	09-:	20-2011
	Scale:	1" = 20	000'	
	Date:	09-21-	-2011	

BOPCO, L.P.

of

Sheets

Sheet



POKER LAKE UNIT 375H Located 30' FSL and 1125' FWL Section 2, Township 25 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.

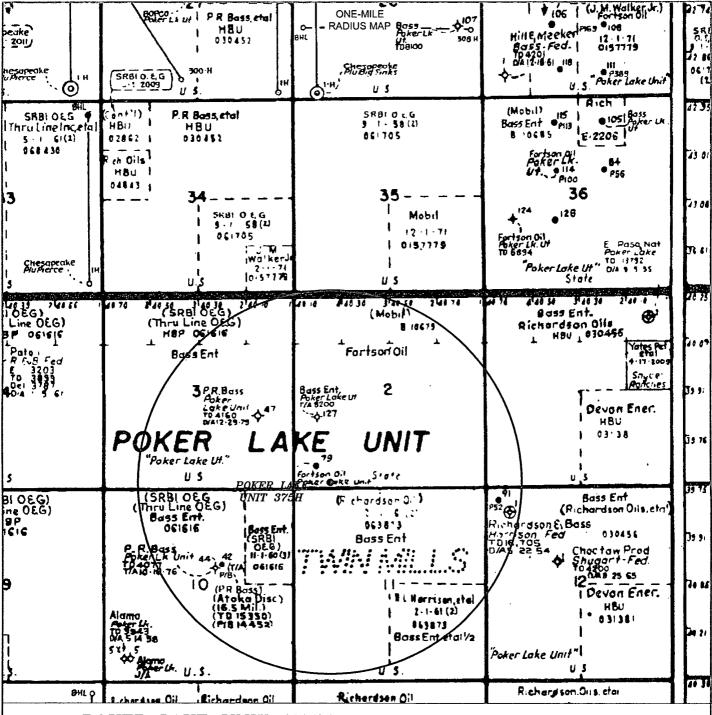


P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

W.O. Number:	JMS	25357	_
Survey Date:	09-:	20-2011	
Scale: 1" = 2	Miles		
Date: 09-21-	-2011		-

BOPCO, L.P.

Sheet 3 of 6 Sheets



POKER LAKE UNIT 375H Located 30' FSL and 1125' FWL Section 2, Township 25 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

W.O. Number:	JMS	25357	
Scale: None			
YELLOW TINT			7

NATURAL COLOR - FEE LAND

BOPCO, L.P.

of

Sheets

Sheet

Surface casing is to be set into the Rustler below all fresh water sands at an approximate depth of 1,217' and cement circulated to surface.

7" casing will be set at approximately 8,117' MD, 7,745' TVD (thru curve) and cemented in two stages with DV Tool set at approximately 5,000'. Cement will be circulated 500' into the 9-5/8" intermediate casing.

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

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

The surface location is nonstandard and located inside the Poker Lake Unit.

The bottom hole location is nonstandard and located inside the Poker Lake Unit.

Surface Lease Numbers – State Lease: B10679 Federal Lease: LC 063873

Bottom Hole Lease Numbers - NM 030456 4 LC 063873A

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

## EIGHT POINT DRILLING PROGRAM BOPCO, L.P.

NAME OF WELL: Poker Lake Unit 375H

LEGAL DESCRIPTION - SURFACE: 30' FSL, 1125' FWL, Section 2, T25S, R30E, Eddy County, NM.

BHL: 1000' FSL, 100' FWL, Section 12, 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 3366' (estimated)

GL 3344'

	ESTIMA	TED			
	TOP FROM KB ESTIMATED				
<u>FORMATION</u>	TVD	_MD_	SUB-SEA TOP	BEARING	
T/Fresh Water	400'	400'	+ 2,966'	Fresh Water	
T/Rustler	916'	916'	+ 2,450'	Barren	
T/Salado	1,066'	1,066'	+ 2,300	Barren	
T/Salt	1,227'	1,227'	+ 2,139'	Barren	
B/Salt	3,787'	3,787'	- 421'	Barren	
T/Lamar	3,998'	3,998'	- 632'	Barren	
T/Ramsey	4,045'	4,045'	- 679'	Oil/Gas	
T/Lower Cherry Canyon	6,060'	6,060'	- 2,694'	Oil/Gas	
KOP	7,268'	7,268'	- 3,902'	Oil/Gas	
LBC 8A Sand	7,535'	7,551'	- 4,169'	Oil/Gas	
EOC	7,745'	8,017'	- 4,379'	Oil/Gas	
Target #1	7,745'	8,247'	- 4,379'	Oil/Gas	
TD Horizontal Hole	7,775'	13,671'	- 4,409'	Oil/Gas	

<b>POINT</b>	- ຊ.	CA	SIN	IG.	PR	OGE	NΔS
L Olla 1	J.				L 17	OUI	

<b>TYPE</b> 20"	INTERVALS (MD) 0'- 120'	Hole Size 26"	<u>PURPOSE</u> Conductor	CONDITION Contractor Discretion
13-3/8", 48#, H-40, or 54.5#, J-55 8rd, ST&C*	0' - 1,217'	17-1/2"	Surface	New
9-5/8", 40#, N-80, 8rd, LT&C or 9-5/8" 40#, J-55, 8rd, LT&C*	0' - 4,018'	12-1/4"	Intermediate	New .
7", 26#, N-80, Buttress or 8rd LTC*	0' - 8,117'	8-3/4"	Production	New
<u>Completion System</u> 4-1/2", 11.6#, HCP-110 8rd. LT&C* 4-1/2", 11.6#, N-80, 8rd, LT&C*	8,067' – 13,671' 8,067' – 13,671'	6-1/8" 6-1/8"	Completion Sys Completion Sys	

#### CASING DESIGN SAFETY FACTORS:

TYPE	<b>TENSION</b>	<u>COLLAPSE</u>	<u>BURST</u>
13-3/8", 48#, H-40, 8rd, ST&C*	6.37	1.19	2.55
13-3/8", 54.5#, J-55, 8rd, STC*	14.96	1.89	4.02
9-5/8", 40#, N-80, 8rd, LT&C*	5.43	1.33	2.56
9-5/8", 40#, J-55, 8rd, LT&C*	3.83	1.20	1.76
7", 26#, N-80, Buttress*	3.48	1.29	1.68
7", 26#, N-80, 8rd, LTC*	2.99	1.23	1.68
Completion System			
4-1/2", 11.6#, HCP-110 8rd. LT&C*	3.59	2.06	2.46
4-1/2", 11.6#, N-80, 8rd, LT&C*	2.87	1.43	1.79
* Danandina an availability			

<sup>\*</sup> 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 (10.2 ppg).

Collapse A 1.125 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.

#### Production CASING - (7")

Tension A 1.6 design factor utilizing the effects of buoyancy (9.0 ppg).

Collapse A 1.125 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.

#### Completion System - (4-1/2")

Tension A 1.6 design factor utilizing the effects of buoyancy (9.0 ppg).

Collapse A 1.125 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 1 & 2)

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 hydril 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 hydril 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. Hydril 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. Hydril 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.

Please refer to diagram 2 for choke manifold and closed loop system layout.

#### **POINT 5: MUD PROGRAM**

<u>DEPTH</u>	MUD TYPE	<u>WEIGHT</u>	_FV	<u>PV_</u>	<u>YP_</u>	<u>_FL</u>	<u>Ph</u>
0' - 1,217'	FW Spud Mud	8.5 - 9.2	38-70	NC	NC	NC	10.0
1,217' - 4,018'	Brine Water	9.8 - 10.2	28-30	NC	NC	NC	9.5 - 10.5
4,018' - 8,117'	FW/Gel	8.7 - 9.0	28-36	NC	NC	NC	9.5 - 10.0
8,117' – 13,671'	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. See COA

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

Mud Logger: Rigged up at 100'.

#### None anticipated

#### D) CEMENT

	AMOUNT SXS	FT OF FILL	TYPE	GALS/SX	<u>PPG</u>	FT <sup>3</sup> /SX
SURFACE: Lead: 0' – 917'	770	917	Class C + 2% CACL + 4% Bentonite + 0.25LB/SK Cello Flake + 3 lb/sk LCM-1	8.69	13.50	1.75
Tail: 917' – 1,217'	335	300	Class C + 2%CACL + 0.25 LB/SK CF	6.35	14.80	1.35
INTERMEDIATE:						
INTERMEDIATE: Lead: 0' – 3,518'	1040	3518	EconoCem HLC 5% CaCl + 5 #/sk	9.32	12.90	1.85
Tail: 3,518' - 4,018'	270	500	Gilsonite HalCem C	6.34	14.80	1.33
Production						
Stage 1: Lead: 5;000' –7,168'	190	2168	Tuned Light + 0.75% CFR-3 + 1.5#/sk CaCl	12.41	10.20	2.76
Tail: 7,168' – 8,117'	150	949	VersaCem-PBSH2 + 0.4% Halad-9	8.76	13.0	1.65
DV Tool @ 5,000'						
Stage 2: Lead: 3,518' - 4,500	' 100	982	EconoCem HLC + 1% Econolite + 5% CaCl + 5#/sk Gilsonite	10.71	-12.60	2.04
Tail: 4,500' - 5,000'	100	500	HalCem C	6.34	14.80	1.33

Cement excesses will be as follows:

Surface - 100% excess with cement circulated to surface.

Production – 50% above gauge hole or 35% above electric log caliper with cement circulated 500' up into the 9-5/8" 1<sup>st</sup> intermediate casing in areas outside the SOPA. Cement will be circulated to surface on areas inside the SOPA.

Cement volumes will be adjusted proportionately for depth changes of the multi stage tool.

#### E) COMPLETIONS SYSTEM

 $<sup>1^{\</sup>text{st}}$  Intermediate – 50% excess above fluid caliper with cement circulated to surface.

#### E) COMPLETIONS SYSTEM

A 4-1/2" completion system with open hole packers will be run in the producing lateral to a depth of 16,173'. The top of the Completion System will be set at approximately 8,172'. Cement will not be required for this system.

#### F) 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 7,268' at which point a directional hole will be kicked off and drilled at an azimuth of 135.291 degrees, building angle at 12.01 deg/100' to 90 degrees at a TVD of 7,745' (MD 8,017'). This angle and azimuth will be maintained for 100' to a measured depth of 8,117' (7,745' 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 cement circulated 500' inside the 9-5/8" intermediate casing. A 6-1/8" open hole lateral will then be drilled out from 7" casing at an azimuth of 135.291 degrees, inclination of 89.683 degrees to a measured depth of 13,671', TVD 7,775'. At this depth a 4-1/2" Completion System with packers installed for zone isolation will be run into the producing lateral.

#### G) H2S SAFTEY EQUIPMENT

As stated in the BLM Onshore Order 6, for wells located in the SOPA, H2S equipment will be rigged up after setting surface casing. For the wells located inside the SOPA the flare pit or ½ steel pits will be located 150' from the location. For wells located outside the SOPA the flare pit or ½ steel pit will be located 100' away from the location. (See page 6 of Survey plat package and diagram 2) There is not any H2S anticipated in the area, although in the event that H2S is encountered, the H2S contingency plan attached will be implemented. (Please refer to diagram 2 for choke manifold and closed loop system layout.) Please refer to H2S location diagram for location of important H2S safety items.

#### H) CLOSED LOOP AND CHOKE MANIFLOLD

Please see diagram 2.

#### POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout Delaware section. A BHP of 3638 psi (max) or MWE of 9.0 ppg is expected. Lost circulation may exist in the Delaware Section from 3,998'-7,775' TVD.

#### **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

JDB



### BOPCO, L.P.

Location Eddy County, NM
Field Poker Lake Unit
Facility Poker Lake Unit No. 375H

Stot No 375H SHL Well No.375H Wellbore No 375H PWB

Tie On 22 00th TVD, 0 00th N, 0 00th E Est KOP 7268 00th TVD. 6 00th N, 0 00th E

EOC 7745.00tt TVD, 339.00tt S. 335 57tt E

Target #1:7745 00ft TVD 502 46ft S, 497 38ft E Drop 7745 04ft TVD, 513 73ft S, 508 54ft E

No 375H SHL 30 FSL 1125' FWL Easting (ft)



-375

-1125

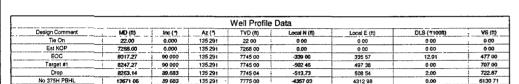
-1500

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-3000

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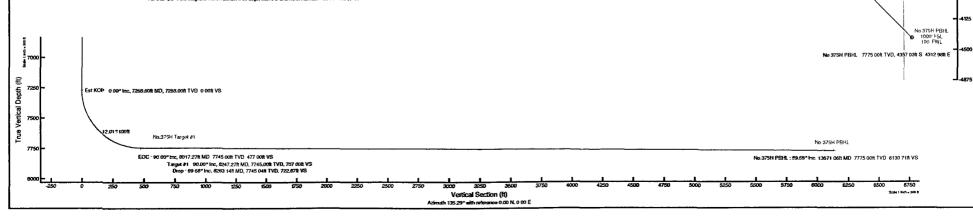
-3750



Plot reference wellpath is Prelim_1	
True vertical depths are referenced to Fig on No.375H SHL (KB)	Grid System, NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Fig on No.375H SHL (KB)	North Reference: Grid north
Rig on No 375H SHL (KB) to Mean Sea Level. 3366 feet	Scale True distance
Mean Sea Level to Mud line (At Slot: No.375H SHL): -3344 feet	Depths are in feet
Coordinates are in feet referenced to Stot	Created by: gentbry on 12/21/2011



BGCM (1945 0 to 2012 () Dip 90 09° Fletch 455:13.97
Magmetin North s 7 96 degrees East of Time North (s 122/2511)
To correct attrovith born Time of Constant State (s 122/2511)
To correct attrovith born Time of Constant State (s 1925 degrees to correct attrovith from Magnetic to Gord add 7.44 degrees
For example of the Magnetic North Assumin + 00 days, them the Gord North Assumes - 90 + 7.44 = 97.44





# Planned Wellpath Report Prelim\_1 Page 1 of 5



RIBBIOR	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No.375H SHL
Area	Eddy County, NM	Well	No.375H
Field	Poker Lake Unit	Wellbore	No.375H PWB
Facility	Poker Lake Unit No. 375H		

REPORT SETUE	INFORMATION		
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.999934	Report Generated	12/21/2011 at 2:25:04 PM
Convergence at slot	0.25° East	Database/Source file	WA Midland/No.375H_PWB.xml

WELLPATH LOCATION										
	Local coo	rdinates	Grid co	ordinates	Geographic coordinates					
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude				
Slot Location	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W				
Facility Reference Pt			647685.30	419506.73	32°09'08.788"N	103°51'22.076"W				
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W				

WELLPATH DATU	M.		
Calculation method	Minimum curvature	Rig on No.375H SHL (KB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Rig on No.375H SHL (KB) to Mean Sea Level	3366.00ft
Vertical Reference Pt	Rig on No.375H SHL (KB)	Rig on No.375H SHL (KB) to Mud Line at Slot (No.375H SHL)	22.00ft
MD Reference Pt	Rig on No.375H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	135.29°



# Planned Wellpath Report Prelim\_1 Page 2 of 5



ROUBR	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No.375H SHL
Area	Eddy County, NM	Well	No.375H
Field	Poker Lake Unit	Wellbore	No.375H PWB
,	Poker Lake Unit No. 375H		

WELLP	ATH DAT	ΓA (151	stations	) †= iı	nterpo	olated	l/extrapola	ited station	1	and the same and t		
MD [ft]	Inclination [°]		TVD [ft]	Vert Sect			Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000		0.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
22.00	0.000	135.291	22.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	Tie On
122.00†	0.000	135.291	122.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
222.00†	0.000	135.291	222.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
322.00+	0.000	135.291	322.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
422.00†	0.000	135.291	422.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
522.00†	0.000	135.291	522.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
622.00†	0.000	135.291	622.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
722.00†	0.000	135.291	722.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
822.00†	0.000	135.291	822.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
916.00†	0.000	135.291	916.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	Rustler
922.00†	0.000	-	922.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
1022.00†	0.000	***************************************	1022.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
1066.00†	0.000		1066.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	Salado
1122.00+	0.000	135.291		0.00	Concrete management and concrete		647685.30	AND REPORT AND PROPERTY AND PRO			0.00	
1222.00+	0.000		1222.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
1227.00+	0.000		1227.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	Salt
1322.00†	0.000		1322.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
1422.00†	0.000		1422.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
1522.00†	0.000	CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY.	1522.00	Service and the second section of the second	0.00	0.00	647685.30	Programme - September - Septem	32°09'08.788"N	103°51'22.076"W	0.00	
1622.00†	0.000		1622.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
1722.00†	0.000		1722.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
1822.00†	0.000		1822.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
1922.00†	0.000		1922.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	<u> </u>
2022.00+		135.291	2022.00	0.00			647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
2122.00†	0.000		2122.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	/ Hitty Steam States of St
2222.00+	0.000		2222.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
2322.00†	0.000		2322.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	<u> </u>
2422.00†	0.000	Management and a series	2422.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
2522.00†	0.000	135.291		0.00	0.00			419506.73	32°09'08.788"N	103°51'22.076"W		
2622.00†	0.000	Prince of the State of the State of	2622.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
2722.00†	0.000	135.291	2722.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
2822.00†	0.000		2822.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
2922.00†	0.000	135.291	2922.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
3022.00†	0.000	135.291	3022.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
3122.00†	0.000	135.291	3122.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
3222.00†	0.000	**********************	3222.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
3322.00†		135.291		0.00	0.00		647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	1
3422.00†			3422.00	0.00	ENDOTES HARRIST			419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
3522.00+			3522.00	0.00			647685.30		32°09'08.788"N		Secretary Assumption of the Contract of the Co	rika garan rekulan kalendaria karan d
3622.00†			3622.00	0.00		0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	Anna Andro All II
3722.00†		135.291		0.00	0.00	·	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
3787.00†		135.291		0.00	-		647685.30	419506.73	32°09'08.788"N	103°51'22.076"W		Base/Salt
3822.00†			3822.00	0.00			647685.30		32°09'08.788"N	103°51'22.076"W	0.00	
3922.00†				Annual Control of the			647685:30			103°51'22.076"W		
K China and Annual Control	2.000	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		PROPERTY OF THE PROPERTY OF	TERROR PRI PRI		THE RESERVE OF THE PARTY OF THE	distribution of the second second				



# Planned Wellpath Report Prelim\_1 Page 3 of 5



RIDIDIDIR	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No.375H SHL
Area	Eddy County, NM	Well	No.375H
Field	Poker Lake Unit	Wellbore	No.375H PWB
Facility	Poker Lake Unit No. 375H		

WELLI	PATH D	ATA (1	51 stati	ons) †	= inte	= interpolated/extrapolated station				and hand the street, and a street significant and a street street and a street street in the street street street street street in the street	-	
	Inclination [°]			Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3998.00†	0.000	135.291	3998.00	0.00	0.00		647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	Lamar
4022.00†	0.000	135.291	4022.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
4045.00†	0.000	135.291	4045.00	0.00	0.00				32°09'08.788"N	103°51'22.076"W	0.00	Ramsey
4122.00†	0.000	135.291	4122.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
4222.00†	0.000	135.291	4222.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
4322.00†	0.000	135.291	4322.00	0.00	0.00					103°51'22.076"W	0.00	
4422.00†	0.000	135.291	4422.00	0.00	0.00					103°51'22.076"W	0.00	
4522.00†	0.000	135.291	4522.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
4622.00†	0.000	135.291	4622.00	0.00	0.00				32°09'08.788"N		0.00	
4722.00†			4722.00	0.00	0.00					103°51'22.076"W	- 0.00	
4822.00†	0.000	135.291	4822.00	0.00	0.00				32°09'08.788"N	103°51'22.076"W	0.00	
4922.00†			4922.00	0.00	0.00				32°09'08.788"N	103°51'22.076"W	0.00	
5022.00†	0.000	135.291	5022.00	0.00	0.00				32°09'08.788"N	103°51'22.076"W	0.00	
5122.00†	0.000	135.291	5122.00	0.00	0.00				32°09'08.788"N	103°51'22.076"W	0.00	
5222.00†	0.000	135.291	5222.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51;22.076"W	0.00	
5322.00†	0.000	135.291	5322.00	0.00	0.00				32°09'08.788"N	103°51'22.076"W	0.00	
5422.00†	0.000	135.291	5422.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
5522.00†	0.000	135.291	5522.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
5622.00†	0.000	135.291	5622.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
5722:00†	0.000	135.291	5722.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
5822.00†	0.000	135.291	5822.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
5922.00†	0.000	135.291	5922.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
6022.00†	0.000	135.291	6022.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
6060.00†	0.000	135.291	6060.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	Lower Cherry Canyon
6122.001	-0.000	135.291	6122.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	the later of
6222.00†	0.000	135.291	6222.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
6322.00†	0.000	135.291	6322.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
6422.00†	0.000	135.291	6422.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
6522.00†	0.000	135.291	6522.00	0.00	0.00	0.00	647685.30	419506.73	32°09'08.788"N	103°51'22.076"W	0.00	
6622.00†			6622.00	0.00	0.00					103°51'22.076"W	0.00	and the second second
6722.00†			6722.00	0.00	0.00				32°09'08.788"N	103°51'22.076"W	0.00	
6822.00†		L	6822.00	0.00	0.00				32°09'08.788"N	103°51'22.076"W	0.00	
6922.00†			6922.00	0.00	0.00				32°09'08.788"N	103°51'22.076"W	0.00	
7022.00†			7022.00	0.00	0.00				32°09'08.788"N	103°51'22.076"W	0.00	
7.122.00†	7	Charles and the best of the contract of the co	7122:00	0.00	0.00	Locality of the Control of the Contr	A A A A A A A A A A A A A A A A A A A	A principle of the party of the	THE RESERVE OF THE PROPERTY OF	103°51'22.076"W	0.00	
7222.00†		-	7222.00	0.00	0.00	0.00	<u></u>	<u></u>	32°09'08.788"N	103°51'22.076"W	0.00	
7268.00			7268.00	0.00	0.00	0.00			32°09'08.788"N	103°51'22.076"W	0.00	Est KOP
7322.00†	6.486	135.291	7321.88	3.05	-2.17	2.15	647687.45	419504.56	32°09'08.766"N	103°51'22.051"W	12.01	
7422.00†	18.498	135.291	7419.34	24.64	-17.51	17.34	647702.63	419489.22	32°09'08.614"N	103°51'21.875"W	12.01	
7522.00†	30.510	135.291	7510.17	66.04	-46.94	46.46	647731.76	419459.80	32°09'08.321"N	103°51'21.538"W	12.01	Paragraphic States
7551.38†	34.038	135.291	7535.00	81.73	-58.08	57.50	647742.79	419448.65	32°09'08.211"N	103°51'21.410"W	12.01	Lower Brushy Canyon
7622.00†			7590.39	125.44						103°51'21.054"W	12.01	And the second s
7722.00†	54.533	135.291	7656.49	200.23						103°51'20.445"W	12.01	The state of the s
7822.00†	66.545	135.291	7705.59							103°51'19.737"W	12.01	
**************************************	mare and a market being a related	SANCE A COMMENT OF THE	AND AND THE PROPERTY OF THE PARTY OF T	ener er som overte er flekeligt dig f Hanne er geldingsmit flekeligtet flekt b	ar family feet acts	anomal Const	The state of the s		A Coppe, paragraphic of terminal behavior and appropriate	and the second second second	y 100 to 100	The second secon



# Planned Wellpath Report Prelim\_1 Page 4 of 5



RIDIDER	ENCE WELLPATH IDENTIFICATION		The Control of the Co
Operator	BOPCO, L.P.	Slot	No.375H SHL
Area	Eddy County, NM	Well	No.375H
Field	Poker Lake Unit	Wellbore	No.375H PWB
Facility	Poker Lake Unit No. 375H		

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8017.27	90.000	135.291	7745.00	477.00	-339.00	335.57	648020.85	419167.76	32°09'05.419"N	103°51'18.190"W	12.01	EOC
8022.00†	90.000	135.291	7745.00	481.73	-342.36	338.90	648024.18	419164.39	32°09'05.385"N	103°51'18.152"W	0.00	
8122.00†	90.000	135.291	7745.00	581.73	-413.43	409.25	648094.52	419093.33	32°09'04.679"N	103°51'17.337"W	0.00	
8222.00†	90.000	135.291	7745.00	681.73	-484.50	479.60	648164.87	419022.27	32°09'03.972"N	103°51'16.523"W	0.00	
8247.27	90.000	135,291	7745.00 <sup>1</sup>	707.00	-502.46	497.38	A THE REPORT OF THE PARTY OF TH	419004.31	32°09'03.794"N	103°51'16.317"W	0.00	Target #1
8263.14	TO STATE OF STREET, ST	135.291	Same willed being amount	722.87	-513.73	508.54	personal various and the Control of	418993.03	32°09'03.682"N	103°51'16.188"W	Total and an experience of the con-	Drop
8322.00†		135.291		781.73	-555.57	549.95	648235.21	418951.20	32°09'03.266"N	103°51'15.708"W	0.00	
8422.00†		135.291		881.73	-626.63	620.30		418880.14	32°09'02.560"N	103°51'14.894"W	0.00	
8522.00†		135.291		981.73	-697.70	690.65	648375.90	418809.08	32°09'01.853"N	103°51'14.079"W	0.00	
8622:00+			7747.03		-768.77		648446.25	Construction of the second second	-32°09'01.147"N	103°51'13.264"W	0.00	
8722.00†		135.291	gitter de ritter kommenten bestrafte en entagent fig. m.	1181.72	-839.84	831.35		418666.95	32°09'00.441"N	103°51'12.450"W	0.00	A STATE OF THE STA
8822.00†		135.291	********************	1281.72	-910.91	901.70	Commence of the second	and the same of the contract of the same o	32°08'59.734"N	103°51'11.635"W	0.00	<b></b>
8922.00†		135.291		1381.72	-981.97	972.05		418524.82	32°08'59.028"N	103°51'10.821"W	0.00	<u> </u>
9022.00†		135.291		1481.72					32°08'58.322"N	103°51'10.006"W	0.00	<u> </u>
9122.00†									32°08'57.615"N	-103°51'09.192"W	0.00	
9222.00†		135.291			-1195.18			418311.64	32°08'56.909"N	103°51'08.377"W	0.00	PACIFIC STREET
9322.00†		135.291	7750.91	1781.71	-1266.25	1253.45		418240.57	32°08'56.202"N	103°51'07.563"W	0.00	<del> </del>
9422.00†		135.291	7751.46	1881.71	-1337.31	1323.80	649009.00	418169.51	32°08'55.496"N	103°51'06.748"W	0.00	<b></b>
9522.00†	89.683	135.291	7752.02	1981.71	-1408.38		649079.35	418098.45	32°08'54.790"N	103°51'05,934"W	0.00	
9622.00†									32°08'54.083"N	103°51'05.119"W	0.00	
9722.00†		135.291			-1550.52			417956.32	32°08'53.377"N	103°51'04.305"W	0.00	
9822.00†	89.683	135.291	7753.68	2281.71	-1621.59	1605.19	649290.38	417885.26	32°08'52.671"N	103°51'03.490"W	0.00	<b></b>
9922.00†	89.683	135.291				1675.54	649360.73	417814.19	32°08'51.964"N	103°51'02.676"W	0.00	
0022.00†	89.683	135.291						417743.13	32°08'51.258"N	103°51'01.861"W	0.00	
0122.00†				Andrews and the second			649501.42	<u> </u>	32°08'50.552"N	103°51'01.047"W	0.00	Section 1
0222.00†		135.291		***************************************	-1905.86			417601.00	32°08'49.845"N	103°51'00.232"W	0.00	380 S TO SALES
0322.00†	89.683	135.291	7756.45	2781.70				417529.94	32°08'49.139"N	103°50'59.418"W	0.00	
0422.00†	89.683			2881.70	-2047.99	2027.29			32°08'48.432"N	103°50'58.603"W	0.00	
0522.00†			7757.56	2981.70	-2119.06	2097.64	<del></del>	417387.82	32°08'47.726"N	103°50'57.789"W	0.00	<del> </del>
0622.00†							649853.14		32°08'47.020"N	=103°50'56.974"W	0.00	
0722.00†	***************************************	135.291	***********************	3181.69	-2261.20			417245.69	32°08'46.313"N	103°50'56.160"W	0.00	puller co. S. Sandares, S.
0822.00†	89.683	135.291	7759.22	3281.69	-2332.26	2308.69	649993.83	417174.63	32°08'45.607"N	103°50'55.345"W	0.00	<u> </u>
0922.00†			7759.77	3381.69	-2403.33		650064.17	417103.56	32°08'44.901"N	103°50'54.531"W	0.00	T
1022.00†	89.683	135.291		3481.69			650134.52	417032.50	32°08'44.194"N	103°50'53.716"W	0.00	ļ
1122.00†	89.683	135.291					650204.86		32°08'43.488"N		.0.00	F4
1222.00†		135.291		3681.68		2590.08	650275.21	416890.37	32°08'42.781"N	103°50'52.087"W	0.00	
1322.00†	89.683	135.291		3781.68		2660.43	650345.55	416819.31	32°08'42.075"N	103°50'51.273"W	0.00	İ
1422.00†							650415.90		32°08'41.369"N	103°50'50.458"W	0.00	
1522.00†							650486.24	416677.18	32°08'40.662"N	103°50'49.644"W	0.00	<del> </del>
1622.00†							Marketine and the second party of the second	416606.12	32°08'39.956"N	103°50'48.830"W	La reconstruction and the second	
1722.00†							650626.93	416535.06	32°08'39.249"N	103°50'48.015"W	0.00	anchestral Albertalis
1822.00†							650697.27	416463.99	32°08'38.543"N	103°50'47.201"W	0.00	<b> </b>
1922.00†								416392.93	32°08'37.837"N	103°50'46.386"W	0.00	<del> </del>
2022.00†							650837.96		32°08'37.130"N	103°50'45.572"W	0.00	<u></u>
										103 30 43.372 W		



# Planned Wellpath Report Prelim\_1 Page 5 of 5



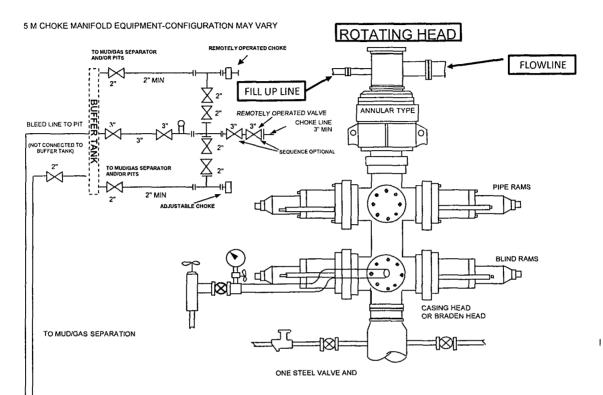
REGER	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No.375H SHL
Area	Eddy County, NM	Well	No.375H
Field	Poker Lake Unit	Wellbore	No.375H PWB
Facility	Poker Lake Unit No. 375H		

WELLP	ATH DA	TA (15	1 station	ns) †=	interpo	lated/ex	ktrapolate	ed station	a Branches Mariographic accession and management is great a simple for a common management and development of	MERCHANIA MILLER MINERAL MINERAL MERCHANIA MANTENANIA MINERAL MENTENDEN MENTENDE MEN		
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12222.00†	89.683	135.291	7766.97	4681.67	-3327.22	3293.58	650978.65	416179.74	32°08'35.717"N	103°50'43.943"W	0.00	
12322.00†	89.683	135.291	7767.53	4781.67	-3398.28	3363.93	651049.00	416108.68	32°08'35.011"N	103°50'43.129"W	0.00	
12422.00†	89.683	135.291	7768.08	4881.67	-3469.35	3434.28	651119.34	416037.62	32°08'34.305"N	103°50'42.314"W	0.00	
12522.00†	89.683	135.291	7768.64	4981.66	-3540.42	3504.63	651189.69	415966.55	32°08'33.598"N	103°50'41.500"W	0.00	
12622.00†	89.683	135.291	7769.19	5081.66	-3614.49	3574.98	651260.03	415895.49	32°08'32.892"N	¥103°50'40.685",W	0.00	
12722.00†	89.683	135.291	7769.74	5181.66	-3682.56	3645.33	651330.38	415824.43	32°08'32.185"N	103°50'39.871"W	0.00	
12822.00†	89.683	135.291	7770.30	5281.66	-3753.62	3715.68	651400.72	415753.36	32°08'31.479"N	103°50'39.057"W	0.00	
12922.00†	89.683	135.291	7770.85	5381.66	-3824.69	3786.03	651471.07	415682.30	32°08'30.773"N	103°50'38.242"W	0.00	
13022.00†	89.683	135.291	7771.40	5481.66	-3895.76	3856.37	651541.41	415611.24	32°08'30.066"N	103°50'37.428"W	0.00	
13122.00†	89.683	135.291	7771.96	5581.66	-3966.83	3926.72	651611.76	415540.17	32°08'29.360"N	103°50'36.613"W	0.00	
13222.00†	89.683	135.291	7772.51	5681.65	-4037.89	3997.07	651682.10	415469.11	32°08'28.653"N	103°50'35.799"W	0.00	
13322.00†	89.683	135.291	7773.07	5781.65	-4108.96	4067.42	651752.44	415398.05	32°08'27.947"N	103°50'34.985"W	0.00	
13422.00†	89.683	135.291	7773.62	5881.65	-4180.03	4137.77	651822.79	415326.99	32°08'27.240"N	103°50'34.170"W	0.00	
13522.00†	89.683	135.291	7774.17	5981.65	-4251.10	4208.12	651893.13	415255.92	32°08'26.534"N	103°50′33.356"W	0.00	
13622.00†										103°50'32.541"W	0.00	<b>是我们</b>
13671.06	89.683	135.291	7775.00 <sup>2</sup>	6130.71	-4357.03	4312.98	651997.99	415150.00	ዿ32°08'25.481"N	103°50'32.142"W	0.00	No.375H PBHL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No.375H Target #1	8247.27	7745.00	, -502:46	497.38	648182.64	419004.31	32°09'03.794"N	103°51'16:317"W	point
2) No.375H PBHL	13671.06	7775.00	-4357.03	4312.98	651997:99	415150:00	32°08'25'481"N	103°50'32'142"W	point

SURVEY PROGRAM - Ref Wellbore: No.375H PWB Ref Wellpath: Prelim_1					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
22.00	13671.06	NaviTrak (Standard)		No.375H PWB	

### BOPCO, L. P. 13 5/8" X 5-M WP BOPE WITH 5-M WP ANNULAR



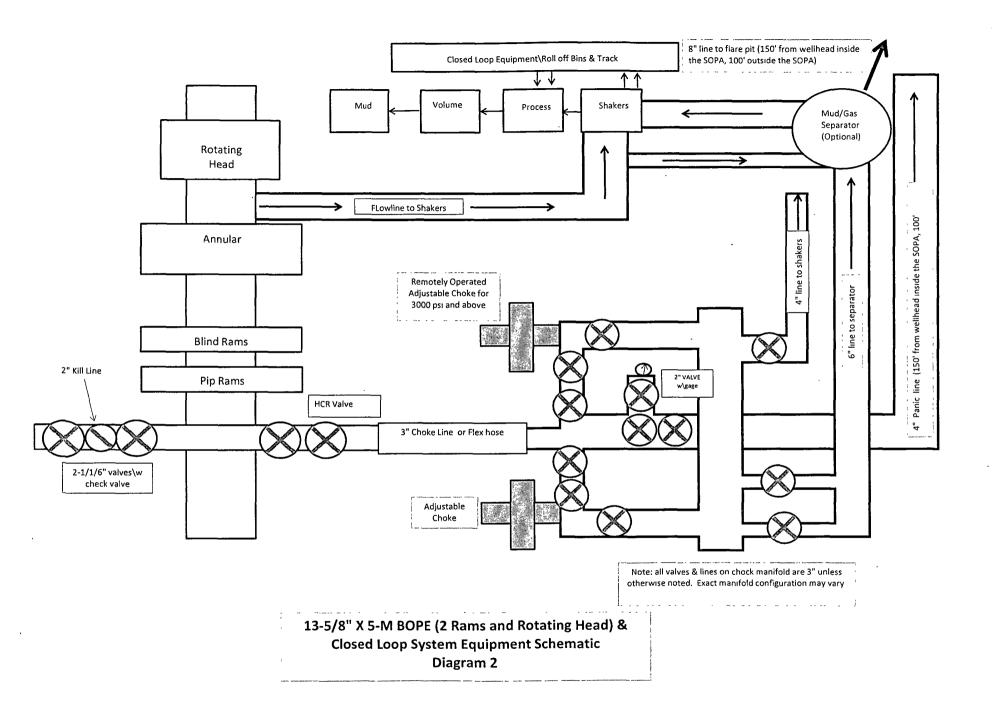
#### THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

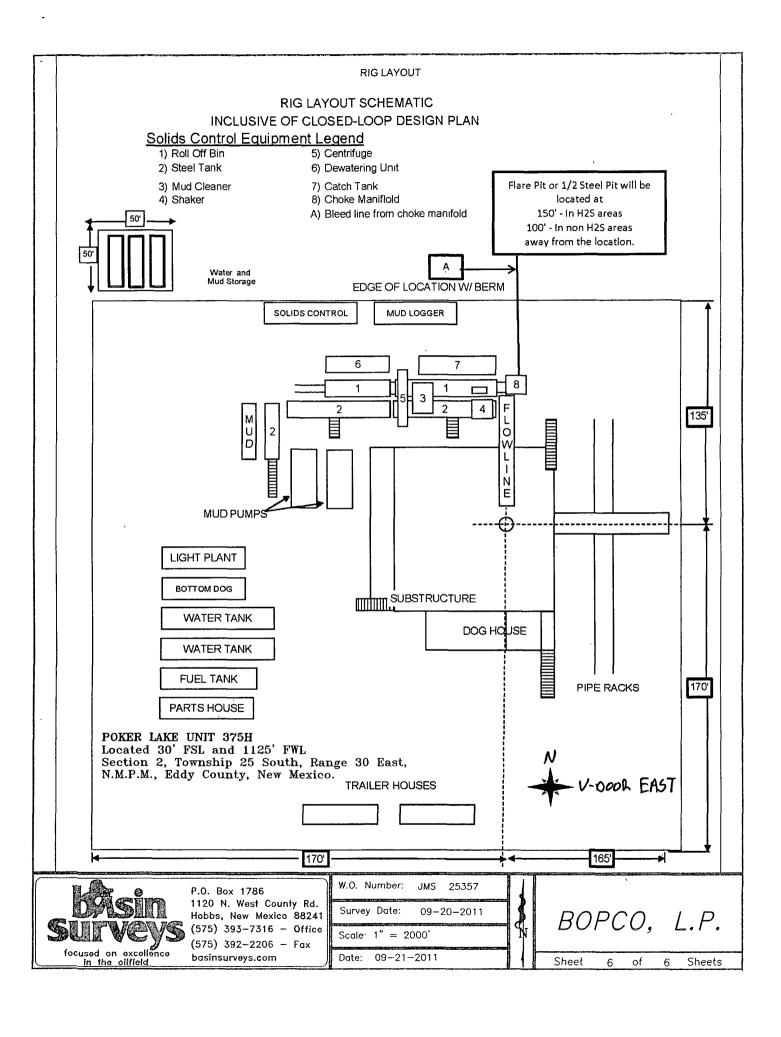
- A. One double gate Blowout preventer with lower pipe rams and upper blind rams, all hydraulically controlled.
- B. Opening on preventers between rams to be flanged, studded or clamped and at least two inches in diameter.
- C. All connections from operating manifold to preventers to be all steel hose or tube a 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

BLEED LINE TO STEEL 1/2 PIT LOCATED 100' FROM WELL





### H<sub>2</sub>S CONTINGENCY PLAN EMERGENCY CONTACTS

#### **BOPCO L.P. Midland Office**

432-683-2277

Key Personnel			
Name	Title	Cell Phone	<u>Number</u>
Stephen Martinez		432-55	6-0262
Buddy Jenkins	Assistant Supt	432-238	3-3295
Bill Dannels	Engineer	432-63	8-9463
Pete Lensing	Engineer	432-557	7-7157
Charles Warne	Engineer	432-894	<b>1-1392</b>
A ma bassia sa a		911	
State Delice			2 2702
City Delice		575-746 575-746	)-21UJ : 2702
Shoriffle Office			
Sileriff's Office		3/3-/40 3/3-/40	)-9000 : 2704
Fire Department	uning Committee	3/3-/40 3/3-/40	)-2/UI : 2422
Now Maying Oil Cone	nning Committee	3/3-/40 3/3-/40	)-Z   ZZ
New Mexico Oil Cons	ervation Division	5/5-/40	0-1203
Carlsbad			
Ambulance		911	
State Police		575-885	5-3137
City Police		575-885	5-2111
Fire Department		575-887	7-3798
	nning Committee	575-887	7-6544
US Bureau of Land M	anagement	575-887	7-6544
	ncy Response Commission (Santa	-	
24 Hour_	nergency Operations Center		_505-827-9126
New Mexico State En	nergency Operations Center		_505-476-9635
National Emergency	Response Center (Washington, D	C)	_800-424-8802
Other			
Boots & Coots IWC		800-256-9688 d	or 281-931-8884
	ol		
Halliburtan		575-746-2757	
B. J. Services		575-746-3569	
	24th St. Lubbock, Texas		806-743-9911
Aerocare - R3, Box 4			806-747-8923
	2301 Yale Blvd SE #D3, Albuq., N	M	505-842-4433
	- 2505 Clark Carr Loop SE, Albuq		505-842-4949
	•		

# PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
NM030456
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
BOPCO LP
NM030456
375H POKER LAKE UNIT
30' FSL & 1125' FWL
1000' FSL & 100' FWL (Sec. 12)
Section 2, T.25 S., R.30 E., NMPM
Eddy County, New Mexico

#### TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

☐ General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
<b>☐</b> Noxious Weeds
Special Requirements
Commercial Well Determination
<b>⊠</b> Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
<b>☐</b> Road Section Diagram
<b>☑</b> Drilling
Medium Cave/Karst
Logging Requirements
Waste Material and Fluids
<b>☐</b> Production (Post Drilling)
Well Structures & Facilities
Pipelines
☐ Interim Reclamation
Final Abandonment & Reclamation

#### I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

#### II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

#### III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

#### IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

### V. SPECIAL REQUIREMENT(S)

#### **Commercial Well Determination**

Well is outside Delaware participating area. A commercial well determination will need to be submitted.

#### VI. CONSTRUCTION

#### A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-6235 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

#### B. TOPSOIL

The operator shall stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be used for interim and final reclamation.

#### C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

#### D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

#### E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

#### F. ON LEASE ACCESS ROADS

#### Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty (20) feet.

#### Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

#### Crowning

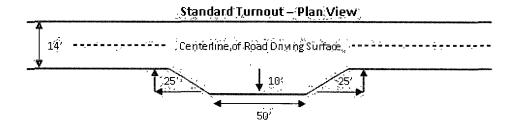
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

#### **Ditching**

Ditching shall be required on both sides of the road.

#### **Turnouts**

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

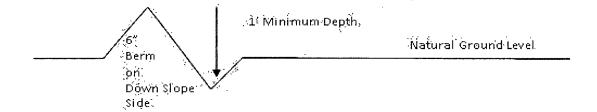


#### Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

**Cross Section of a Typical Lead-off Ditch** 



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

#### Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

#### **Culvert Installations**

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

#### **Cattleguards**

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

#### **Fence Requirement**

Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

#### **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

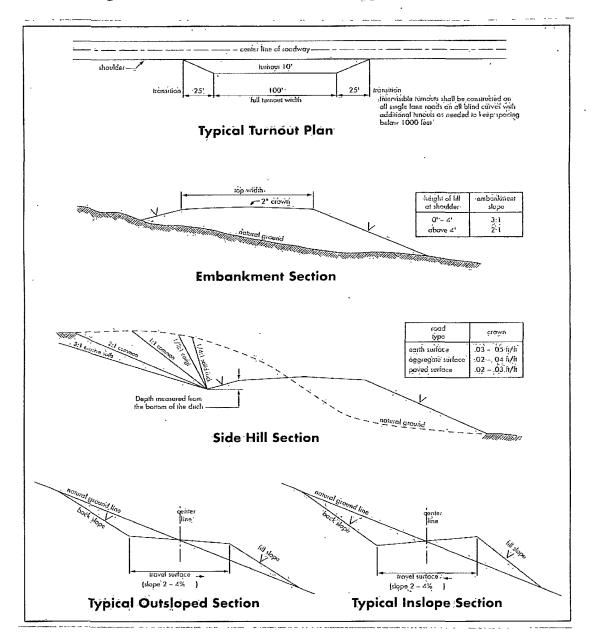


Figure 1 - Cross Sections and Plans For Typical Road Sections

#### VII. DRILLING

#### A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

#### **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#).

Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst
Possible lost circulation in the Delaware.
Possible water flows in the Castile, Salado and Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 1217 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If the salt is encountered set the casing 25 feet above the top of the salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
  - ☐ Cement to surface. If cement does not circulate see B.1.a, c-d above.

### If 75% or greater lost circulation occurs while drilling the intermediate casing hole, the cement on the production casing must come to surface.

- 3. The minimum required fill of cement behind the 7 inch production casing is:
  - a. First stage to DV tool, cement shall:
  - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
  - b. Second stage above DV tool, cement shall:
  - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.
- 4. Cement not required on the 4-1/2" completion assembly. Packer system being used.
- 5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

#### C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000** (**2M**) psi. **Operator installing a 5M but testing as a 2M system.** 
  - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 3000 (3M) psi. Operator installing a 5M but testing as a 3M system.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- c. The results of the test shall be reported to the appropriate BLM office.
- d. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

#### D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

#### E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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#### VIII. PRODUCTION (POST DRILLING)

#### A. WELL STRUCTURES & FACILITIES

#### **Placement of Production Facilities**

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

#### **Containment Structures**

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

#### **Painting Requirement**

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

#### A. PIPELINES

#### STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b.

A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
  - (1) Land clearing.
  - (2) Earth-disturbing and earth-moving work.
  - (3) Blasting.
  - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean

up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

- 6. The pipeline shall be routed no farther than 6 feet from and parallel to existing roads. The authorized right-of-way width will be \_\_\_\_\_\_ feet. 14 feet of the right-of-way width will consist of existing disturbance (existing lease roads) and the remaining 6 feet will consist of area adjacent to the disturbance. All construction and maintenance activity will be confined to existing roads.
- 7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.
- 8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.
- 9. The pipeline shall be buried with a minimum of \_\_\_\_\_\_\_ inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the

right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.
- 16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

#### IX. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

#### X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

#### Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

Species	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

<sup>\*</sup>Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed