RECEIVED

OCD-ARTESIA

ATS-12-421 EA-12-710

Form \$460-3 1 4 2012 (April 2004)	
NMOCD ARTESIA	A

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

MOCD ARTESIA UNITED STATES			Expires March 31,	2007
DEPARTMENT OF THE I	5 Lease Serial No. A	box 6) SHL-LCO61705-B		
BUREAU OF LAND MAN	6 If Indian, Allotee or Trib			
APPLICATION FOR PERMIT TO	DRILL OR REENTER		See pg 1 of 8pt DP for	
la. Type of work DRILL REENTE	7 If Unit or CA Agreement, I NMNM 71016X			
lb. Type of Well Oil Well Gas Well Other	✓ Single Zone Multi	ple Zone	8 Lease Name and Well No. Poker Lake Unit 392	2011111A
2 Name of Operator BOPCO, L. P.	<26073	>>	9 API Well No 30-0/5-	40296
3a Address P. O. Box 2760	3b Phone No. (include area code)		10 Field and Pool, or Explorat	ory
Midland, TX 79702	432-683-2277		Poker Lake (Delawar	<u> </u>
4. Location of Well (Report location clearly and in accordance with any At surface NWNE, UL C, 200' FNL & 1900' FV At proposed prod zone 750' FSL, 550' FWL, Sec21, T24S-R3	WL, Lat:N32.209394,Long:W10		11. Sec , T. R M or Blk and S Sec 20, T24S-R31E, N	•
14 Distance in miles and direction from nearest town or post office* 20 miles East of Malaga			12 County or Parish Eddy	13 State NM
15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line, if any) 200'	16 No of acres in lease 4820.53	17 Spacu	g Unit dedicated to this well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 136'	19 Proposed Depth 13,673' MD \ 8,143' TVD	l	BIA Bond No. on file 000050	
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 3,495'	22 Approximate date work will sta 09/01/2012	rt*	23. Estimated duration 30 Days	
	24. Attachments			· · · · · · · · · · · · · · · · · · ·
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be a	ttached to th	is form.	
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office) 	ltem 20 above) Lands, the 5 Operator certific	cation specific inf	ons unless covered by an existing	,
25. Signature James Breden	Name (Printed/Typed) Jeremy Braden	<u> </u>	Date 2	15-12
Title Engineering Assistant				
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)		PAY	08 2012
Title FIELD MANAGER	Office CARLSBAE	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

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)

conduct operations thereon.

Conditions of approval, if any, are attached.

Carlsbad Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

APPROVAL FOR TWO YEARS

BOPCO, L. P. 6 DESTA DRIVE, SUITE 3700 (79705) P. O. BOX 2760 MIDLAND, TEXAS 79702

(432) 683-2277

FAX (432) 687-0329

February 15, 2012

Bureau of Land Management 620 E. Greene Carlsbad, New Mexico 88220 Attn: John Chopp

Dear Mr. Chopp,

BOPCO, L.P. respectfully requests exception to the Prairie Chicken timing restrictions for Poker Lake Unit #392H located 200' FNL, 1900' FWL, of Section 20, T24S, R31E, Eddy County, New Mexico

Sincerely,

Stephen Matinez Division Drilling Superintendent

SMM/JDB

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised July 16, 2010

3495

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION

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

DISTRICT III DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

Property Code

306402

OGRID No.

260737

1000 Rio Brazos Rd., Aztec, NM 87410

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT -015-40296 Pool Code Pool Name Poker Lake (Delaware) 50382 Property Name Well Number 392H POKER LAKE UNIT Operator Name Elevation

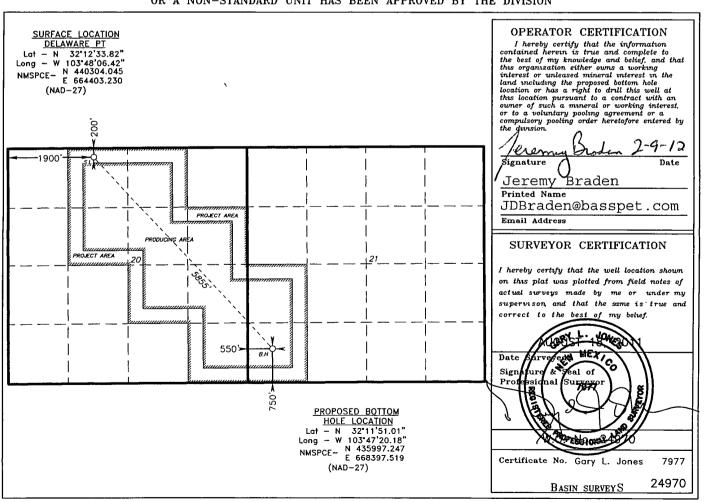
> BOPCO, L.P. Surface Location

U	L or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	С	20	24 S	31 E		200	NORTH	1900	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
М	21	24 S	31 E		750	SOUTH	550	WEST	EDDY
Dedicated Acres	s Joint o	r Infill C	onsolidation (Code Or	der No.				
400									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Surface casing is to be set into the Rustler below all fresh water sands at an approximate depth of 963' and cement circulated to surface.

7" casing will be set at approximately 8,465' MD, 8,093' 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 - LC 061705 B

Bottom Hole Lease Numbers - NM 0506

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 392H

LEGAL DESCRIPTION - SURFACE: 200' FNL, 1,900' FWL, Section 20, T24S, R31E, Eddy County, NM. BHL: 750' FSL, 550' FWL, Section 21, T24S, R31E, Eddy County, New Mexico.

POINT 1: ESTIMATED FORMATION TOPS (See No. 2 Below)

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

Anticipated Formation Tops: KB 3,517' (estimated)

GL 3,495'

ESTIMATED .							
	TOP FR	OM KB	ESTIMATED				
<u>FORMATION</u>	TVD	_MD_	SUB-SEA TOP	BEARING			
T/Fresh Water	169'	169'	+ 3,348'	Fresh Water			
T/Rustler	582'	582'	+ 2,935'	Barren			
T/Salado	782'	782'	+ 2,735	Barren			
T/Salt	973'	973'	+ 2,544'	Barren			
B/Salt	4,123'	4,123'	- 606'	Barren			
T/Lamar	4,344'	4,344'	- 827'	Barren			
T/Ramsey	4,378'	4,378'	- 861'	Oil/Gas			
T/Lower Cherry Canyon	6,460'	6,460'	- 2,943'	Oil/Gas			
KOP	7,616'	7,616'	- 4,099'	Oil/Gas			
Lower Brushy Canyon Sand	7,882'	7,898'	- 4,365'	Oil/Gas			
EOC	8,093'	8,365'	- 4,576'	Oil/Gas			
Target #1	8,093'	8,411'	- 4,576'	Oil/Gas			
TD Horizontal Hole	8,143'	13,763'	- 4,626'	Oil/Gas			

POINT 3: CASING PROGRAM

TYPE	INTERVALS (MD)	· Hole Size	<u>PURPOSE</u>	CONDITION
20"	0'- 80'	24"	Conductor	Contractor Discretion
(13-3/8", 48#, H-40, or 54.5#, J-55	. 0' - 9 63'	17-1/2"	Surface	New
} 8rd, ST&C*	900			
¹ 9-5/8", 40#, N-80, 8rd, LT&C or	0' - 4,364	12-1/4"	Intermediate	New
9-5/8" 40#, J-55, 8rd, LT&C*	4325			
7", 26#, N-80, Buttress or 8rd LTC*	0' - 8,465'	8-3/4"	Production	New
Completion System				
4-1/2", 11.6#, HCP-110 8rd. LT&C*	8,415' — 13,763'	6-1/8"	Completion Sys	stem New
4-1/2", 11.6#, N-80, 8rd, LT&C*	8,415' - 13,763'	6-1/8"	Completion Sys	tem New

CASING DESIGN SAFETY FACTORS:

TYPE	TENSION	COLLAPSE	BURST
13-3/8", 48#, H-40, 8rd, ST&C*	8.10	1.53	1.66
13-3/8", 54.5#, J-55, 8rd, STC*	18.91	2.41	2.62
9-5/8", 40#, N-80, 8rd, LT&C*	4.98	1.21	2.35
9-5/8", 40#, J-55, 8rd, LT&C*	4.27	1.13	1.62
7", 26#, N-80, Buttress*	3.33	1.22	1.60
7", 26#, N-80, 8rd, LTC*	2.86	1.16	1.60
Completion System		•	
4-1/2", 11.6#, HCP-1.10 8rd. LT&C*	3.31	1.93	2.35
4-1/2", 11.6#, N-80, 8rd, LT&C*	2.74	1.34	1.71
* D			

^{*} 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 (0.53 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 1.25 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 1.0 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.

Completion System - (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 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>	FL	<u>Ph</u>
0'963'	FW Spud Mud	8.5 - 9.2	38-70	NC	NC	NC	10.0
900 963' - 4,364'	Brine Water	9.8 - 10.2	28-30	NC	NC	NC	9.5 - 10.5
43254,364' - 8,465'	FW/Gel	8.7 - 9.0	28-36	NC	NC	NC	9.5 - 10.0
8,465' - 13,763'	FW/Gel/Starch	8.7 - 9.0	28-36	NC	NC	<100	9.5 - 10.0

NOTE: May increase vis for logging purposes only.

POINT 6: TECHNICAL STAGES OF OPERATION

A) TESTING

None anticipated.

B) LOGGING See OA

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

hole.

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

Mud Logger: Rigged up at 100'.

C) CONVENTIONAL CORING

None anticipated

D) CEMENT

INTERVAL	AMOUNT SXS	FT OF FILL	TYPE	GALS/SX	<u>PPG</u>	FT ³ /SX
SURFACE: Lead: 0' - 463'	400	463	Class C + 2% CACL + 4% Bentonite + 0.25LB/SK Cello Flake + 3 lb/sk LCM-1	8.69	13.50	1.75
Tail: 463' – 963'	450	500	Class C + 2%CACL + 0.25 LB/SK CF	6.35	14.80	1.35
INTERMEDIATE: Lead: 0' - 3,864'	1200	3864	EconoCem HLC 5% CaCl + 5 #/sk Gilsonite	9.32	12.90	1.85
Tail: 3,864' - 4,364'	270	500	HalCem C	6.34	14.80	1.33
Production Stage 1: Lead: 5,000' -7,516'	220	2516	Tuned Light + 0.75% CFR-3 + 1.5#/sk CaCl	12.41	10.20	2.76
Tail: 7,516' – 8,465'	150	949	VersaCem-PBSH2 + 0.4% Halad-9	8.76	13.0	1.65
DV Tool @ 5,000'						
Stage 2: Lead: 3,864'. – 4,500	70	636	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" 1st 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

^{1&}lt;sup>st</sup> 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 13,763'. The top of the Completion System will be set at approximately 8,415'. 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 7,616' at which point a directional hole will be kicked off and drilled at an azimuth of 137.156 degrees, building angle at 12.01 deg/100' to 90 degrees at a TVD of 8,093' (MD 8,365'). This angle and azimuth will be maintained for 100' to a measured depth of 8,465' (8,093' TVD). At this depth 7", 26#, N-80, 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 137.156 degrees, inclination of 89.463 degrees to a measured depth of 13,763', (TVD 8,143'). 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 layout diagram for locations of important H₂S equipment.

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 3764 psi (max) or MWE of 9.0 ppg is expected. Lost circulation may exist in the Delaware Section from 4,344'-8,043' 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 392H

Slot No 392H SHL Well No 392H Vellbore No.392H PWB

Tie On 22 00th TVD, 0 00th N, 0 00th E St KOP 7618 00th TVD, 0 00th N, 0 00th E

> EOC 8093 00ft TVD, 349 74ft S, 324 36ft E Target #1 8093 00ft TVD, 383 47ft S, 355 64ft E Drop 8093 13ft TVD, 403 14ft S 373 89ft E

Easting (ft)



-325

-975

-1300

-1950

Northing (

-2600

-2925

-3250

3575

-4225

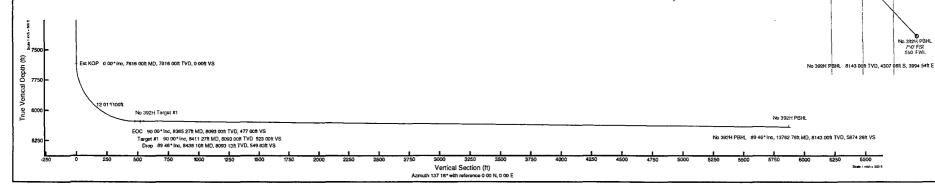
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	Well Profile Data										
Design Comment	MD (ft)	Inc (9	Az (%	TVD (ft)	Local N (ft)	Local E (ft)	DLS (%100ft)	VS (ft)			
Tie On	22 00	0 000	137 156	22.00	0 00	0 00	0 00	0.00			
Est KOP	7616 00	0.000	137 156	7616 00	0 00	0 00	0 00	0 00			
EOC	8365 27	90 000	137,156	8093 00	-349 74	324 36	12 01	477 00			
Target #1	8411 27	90 000	137 156	8093 00	-383.47	355 64	0 00	523 00			
Drop	8438 10	89,463	137 156	8093 13	-403 14	373 89	2 00	549 83			
No 392H PBHL	13762 78	89,463	137 156	8143.00	-4307 06	3994 54	0 00	5874 28			



BGGM (1945 0 to 2013 0) Dip 60.09 * Field 48529 5 nT
Magnetic North is 7.70 degrees East of True North (at 1/17/2012)
Gnd North is 0 28 degrees East of True North (at 1/17/2012)
Gnd North is 0 28 degrees East of True North
To correct azmuth from True to Gnd subtract 0 28 degrees
To correct azmuth from Magnetic of Gnd add 74 it degrees
For example. If the Magnetic North Azimuth = 90 degs, then the Gnd North Azmuth = 90 + 7 41 = 97.41





Planned Wellpath Report Prelim_1 Page 1 of 5



REFER	ENCEWELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No.392H SHL
Area	Eddy County, NM	Well	No.392H
Field	Poker Lake Unit	Wellbore	No.392H PWB
Facility	Poker Lake Unit No. 392H		

REPORT SETUE	PINFORMATION		
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.99994	Report Generated	1/17/2012 at 2:33:06 PM
Convergence at slot	0.28° East	Database/Source file	WA Midland/No.392H_PWB.xml

WELLPATH LOCAT	ION							
	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	664403.23	440304.05	32°12'33.824"N	103°48'06.419"W		
Facility Reference Pt			664403.23	440304.05	32°12'33.824"N	103°48'06.419"W		
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W		

WELLPATH DATU			
	Minimum curvature		22.00ft
Horizontal Reference Pt	Slot	Rig on No.392H SHL (KB) to Mean Sea Level	3517.00ft
Vertical Reference Pt	Rig on No.392H SHL (KB)	Rig on No.392H SHL (KB) to Mud Line at Slot (No.392H SHL)	22.00ft
MD Reference Pt	Rig on No.392H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	137.16°



Planned Wellpath Report Prelim_1 Page 2 of 5



REFER	ENCE WELLPATH IDENT	FICATION *		
Operator	BOPCO, L.P.		Slot	No.392H SHL
Area	Eddy County, NM		Well	No.392H
Field	Poker Lake Unit		Wellbore	No.392H PWB
Facility	Poker Lake Unit No. 392H			

MD	Inclination	1 1	TVD	Vert Sect			Grid East	Grid North	Latitude	Longitude	DLS	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]		100010101111111111111111111111111111111	[°/100ft]	ļ
0.00†	0.000		0.00	0.00		0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
22.00		137.156	22.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W		Tie On
122.00†	<u> </u>	137.156	122.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	ļ
222.00†	0.000	·	222.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
322.00†		137.156	322.00		0.00	0.00	664403:23	440304.04	Part of the second seco		p	
422.00†	<u> </u>	137.156	422.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
522.00†	0.000		522.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	ļ
582.00†	0.000		582.00	. 0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W		Rustler
622.00†	0.000		622.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
722.00†		.137.156	722.00	0.00	0.00	0.00	664403.23	440304.04	And the second s		0.00	
782.00†	0.000		782.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W		Salado
822.00†	0.000		822.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
922.00†	0.000		922.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
973.00†	0.000		973.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
1022.001	0.000	137.156	1022.00	0.00	0.00		664403.23	440304.04	32°12'33.824"N	103°48'06.419"W		7571
1122.00†	0.000			0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
1222.00†	0.000		1222.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
1322.00†	0.000		1322.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
1422.00†	0.000		1422.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
1522:00†	0.000	137.156		0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06'419"W	0.00	
1622.00†	0.000	137.156	1622.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
1722.00†	0.000	137.156	1722.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
1822.00†	0.000	137.156	1822.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
1922.00†	0.000		1922.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
2022:00†	0.000	#137.156	2022!00	0.00	(0.00)	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06'419"W	0.00	
2122.00†	0.000	137.156	2122.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
2222.00†	0.000	137.156	2222.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
2322.00†	0.000	137.156	2322.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
2422.00†	0.000		2422.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
2522!00†	0.000	1137.156	2522/00	** 0.00	(0.00	(0.00	664403:23	440304.04	™32°12'33.824"N	103°48'06'419"W	0.00	4.2
2622.00†	0.000	137.156	2622.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
2722.00†	0.000	137.156	2722.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	,
2822.00†	0.000	137.156	2822.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
2922.00†	0.000	137.156	2922.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
3022.00†	0.000	137.156	3022.00	0.00	0.00	0.00	664403/23	440304.04	- 32°12'33.824"N	103°48'06.4'19"W	0.00	
3122.00†	0.000	137.156	3122.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
3222.00†	0.000		3222.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
3322.00†		137.156		0.00	0.00		664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
3422.00†	0.000	137.156	3422.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	I
3522:00†		137.156							32°12'33.824"N			
3622.00†	0.000	137.156	3622.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
3722.00†		137.156		0.00	0.00		664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
3822.00†		137.156		0.00	0.00		664403.23		32°12'33.824"N	103°48'06.419"W	0.00	
3922.00†		137.156		0.00	0.00		664403.23		32°12'33.824"N	103°48'06.419"W	0.00	
4022.00†		137.156								103°48'06.419"W		A Company of the Comp



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REFER	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No.392H SHL
Area	Eddy County, NM	Well	No.392H
Field	Poker Lake Unit	Wellbore	No.392H PWB
Facility	Poker Lake Unit No. 392H		

WELLI	PATH DA	ATA (1:	52 stati	ons) †	= inte	rpola	ted/extra	oolated sta	ation	halan ya angan sangan dalam lang adal angan maya katan dalam angan angan basa dalam angan sangan angan dalam d		
MD [ft]	Inclination [°]			Vert Sect [ft]	····	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4122.00†			4122.00		0.00	Carried Street, Street, or other Desires.	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
4123.00†			4123.00		0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	Base/Salt
4222.00†	0.000	137.156	4222.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
4322.00†	Commission of the Commission o	Extension management	4322.00	<u></u>	0.00	<u> </u>	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
4344.00†	.1	CONTRACTOR OF THE PROPERTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PART	4344.00	Carried Control Control	0.00		664403.23	1	32°12'33.824"N	103°48'06.419"W	0.00	Lamar
4378.00†	THE PARTY OF THE P		4378.00		0.00	A SECRETARIAN SANS	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	parties and the same of the sa	Ramsey
4422.00†			4422.00		0.00	<u></u>	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
4522.00†		137.156		0.00	0.00		664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
4622.00†	Laurence and the second		4622.00		0.00		664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
4722.00t		137.156		0.00	0.00		-		32°12'33.824"N	103°48'06.419"W	0.00	
4822.00†	The second secon	137.156		0.00	0.00		664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
4922.00†	1	137.156		0.00	0.00	<u></u>	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
5022.00†		137.156		0.00	0.00	<u></u>	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
5122.00†	·	137.156		0.00	0.00	L	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
5222.00	<u></u>	137.156	and the second second second second	0.00	0.00	<u> </u>	L	Laurence Contraction of the Cont	32°12'33.824"N	103°48'06.419"W	0.00	FREE TO THE
	Loss State Control of the Control of		- managed College College	0.00		110 0000	664403.23		32°12'33.824"N	103°48'06.419"W	0.00	MC-00 C-1
5322.00† 5422.00†		137.156		0.00	0.00		·	440304.04	32°12'33.824 N	103 48 00.419 W	0.00	
		137.156		<u> </u>	0.00				32°12'33.824 N	103 48 00.419 W	<u> </u>	
5522.00†		137.156		0.00	0.00			440304.04		103°48'06.419"W	0.00	
5622.00†	The same and the s	137.156		0.00	0.00	L	664403.23	440304.04	32°12'33.824"N		0.00	
5722.00†	Decoration of the Control of the Con	137.156	A In the property with	0.00	0.00	September 1	Makes to a few of Congress lands and M	440304.04	SALES OF THE PARTY	103°48'06.419"W	0.00	
5822.00†		137.156		0.00	0.00	<u></u>	664403.23	<u> </u>	32°12'33.824"N	103°48'06.419"W	0.00	
5922.00†	1	137.156		0.00	0.00	<u> </u>	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
6022.00†	1	137.156		0.00	0.00		664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
6122.00†	· Laurence and the second seco	137.156	Annual Contract of the Contrac	0.00	0.00		664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
6222.00†	T- Class Section 4 Annual Control	137.156		0.00	0.00	-	664403.23	A STATE OF THE PARTY OF THE PAR	32°12'33.824"N	103°48'06.419"W	0.00	
6322.00†	<u> </u>	137.156		0.00	0.00	<u> </u>	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
6422.00†		137.156		0.00	0.00		664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
6460.00†	0.000	137.156	6460.00	0.00	0.00		664403.23	440304.04	32°12'33.824"N	103°48′06.419″W	0.00	Lower Cherry Canyon
6522.00†	1	137.156		0.00	0.00		664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
6622.00†	0.000	137.156	6622.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
6722.00†	0.000	137.156	6722.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
6822.00†	0.000	137.156	6822.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
6922.00†		137.156	6922.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
7022.00†	0.000	137.156	7022.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
7122.00†	0.000	137.156	7122.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06:419"W	0.00	
7222.00†	0.000	137.156	7222.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
7322.00†	0.000	137.156	7322.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
7422.00†	0.000	137.156	7422.00	0.00	0.00	0.00	664403.23	440304.04	32°12'33.824"N	103°48'06.419"W	0.00	
7522.00†			7522.00							103°48'06.419"W		
7616.00	Action to the second se	and the Committee of the Committee of	7616.00	Commence of the Party of the Pa						103°48'06.419"W		Est KOP
7622.00†		137.156		0.04	-0.03	-				103°48'06.419"W	12.01	
7722.00†	<u> </u>	137.156		11.73						103°48'06.327"W	12.01	
7822.00†		137.156							32°12'33.505"N	103°48'06.074"W	12.01	
7898.17†		137.156								103 48 00.074 W	<u></u>	Lower Brushy Canyon
7922.00†										103 48 05.781 W		Lower Brushy Canyon
1722.00	30.730	137:150	7301.44	24.63	יכניילט-	U4.47	004407.71	***************************************	JAPET SOUTH	403.4003.072 W	12.01	



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REDER	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No.392H SHL
Area	Eddy County, NM	Well	No.392H
Field	Poker Lake Unit	Wellbore	No.392H PWB
Facility	Poker Lake Unit No. 392H		

WELLPA	ATH DAT	ΓA (152	station	s) †=	interpol	ated/ext	rapolated	station	-2		<u>., </u>	
	Inclination [°]			Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8022.00†	48.767	137.156	7974.72	162.60	-119.22	110.57	664513.79	440184.83	32°12'32.639"N	103°48'05.139"W	12.01	
8122.00†	60.779	137.156	8032.30	244.14	-179.01	166.02	664569.24	440125.05	32°12'32.044"N	103°48'04.497"W	12.01	
8222.00†	72.791	137.156	8071.65	335.87	-246.27	228.40	664631.61	440057.79	32°12'31.376"N	103°48'03.775"W	12.01	
8322.00†	84.803	137.156	8091.04	433.79	-318.06	294.98	<u> </u>	439986.01	32°12'30.662"N	103°48'03.004"W	12.01	
8365.27	90.000	137.156	8093.00	477.00	-349.74	324.36	664727.57	439954:33	32°12'30.347"N	103°48'02.664"W	12.01	EOC,
8411.27	90.000	137.156	8093.00	523.00	-383.47	355.64	<u></u>	439920.60	32°12'30.012"N	103°48'02.302"W	0.00	Target #1
8422.00†		137.156		533.73	-391.34	362.94	<u> </u>	439912.73	32°12'29.934"N	103°48'02.217"W	2.00	
8438.10		137.156		549.83	-403.14	373.89	664777.10	439900.93	32°12'29.816"N	103°48'02.091"W	2.00	Drop
8522.00†		137.156		633.73	-464.65	430.94	l	439839.42	32°12'29.205"N	103°48'01.430"W	0.00	
8622:00†		The second second second second second	8094.85		-537.97				.32°12'28.476"N	103°48'00.643"W	0.00	
8722.00†	89.463	137.156	8095.78	833.72	-611.29	566.93		439692.79	32°12'27.747"N	103°47'59.856"W	0.00	
8822.00†		137.156		933.71	-684.61	634.93	 	439619.48	32°12'27.018"N	103°47'59.069"W	0.00	
8922.00†	89.463	137.156	8097.66	1033.71	-757.92	702.93	665106.11	439546.17	32°12'26.289"N	103°47'58.282"W	0.00	
9022.00†	89.463		8098.59	1133.70	-831.24	770.92		439472.86	32°12'25.560"N	103°47'57.495"W	0.00	
9122.00†	The state of the s	Charles and the second	the of a south of a section	1233.70	-904.56	838.92		439399.54	-32°12'24.832"N	103°47'56:707"W	² 0.00	d right
9222.00†		137.156		1333.70	-977.88	906.92	665310.09	439326.23	32°12'24.103"N	103°47'55.920"W	0.00	
9322.00†	89.463	137.156	8101.40	1433.69	-1051.19	974.92	665378.09	439252.92	32°12'23.374"N	103°47'55.133"W	0.00	
9422.00†	89.463	137.156	8102.34	1533.69	-1124.51	1042.91	665446.08	439179.60	32°12'22.645"N	103°47'54.346"W	0.00	
9522.00†		137.156				1110.91	665514.07	439106.29	32°12'21.916"N	103°47'53.559"W	0.00	
9622.00†	89:463	137.156	8104.21	1733.68	-1271:15	1178.91	665582.07	439032.98	32°12'21.187"N	103°47'52!772"W	0.00	**
9722.00†	89.463	137.156	8105.15	1833.67	-1344.46	1246.91	665650.06	438959.66	32°12'20.459"N	103°47'51.985"W	0.00	
9822.00†	89.463	137.156	8106.09	1933.67	-1417.78	1314.90	665718.05	438886.35	32°12'19.730"N	103°47'51.198"W	0.00	
9922.00†	89.463	137.156	8107.02	2033.66	-1491.10	1382.90	665786.05	438813.04	32°12'19.001"N	103°47'50.411"W	0.00	
10022.00†					-1564.42	1450.90	665854.04	438739.73	32°12'18.272"N	103°47'49.624"W	0.00	
10122:00†	89.463	137.156	8108.90	2233.66	-1637.73	1518.90	665922.03	438666.41	32°12'17.543"N	103°47'48!836"W	0.00	
10222.00†	89.463	137.156	8109.83	2333.65	-1711.05	1586.89	665990.03	438593.10	32°12'16.814"N	103°47'48.049"W	0.00	
10322.00†	89.463	137.156	8110.77	2433.65	-1784.37	1654.89	666058.02	438519.79	32°12'16.085"N	103°47'47.262"W	0.00	
10422.00†	89.463	137.156	8111.71	2533.64	-1857.69	1722.89	666126.01	438446.47	32°12'15.356"N	103°47'46.475"W	0.00	
10522.00†					-1931.00			438373.16	32°12'14.628"N	103°47'45.688"W	0.00	
10622.00†				1	-2004.32				.32°12'13.899"N	103°47'44.901"W	0.00	2 2 40
10722.00†	89.463	137.156	8114.52	2833.63	-2077.64	1926.88	<u></u>	438226.53	32°12'13.170"N	103°47'44.114"W	0.00	
10822.00†		137.156		2933.63	-2150.96	1994.88		438153.22	32°12'12.441"N	103°47'43.327"W	0.00	-
10922.00†		137.156		3033.62	-2224.27	2062.88	666465.98	438079.91	32°12'11.712"N	103°47'42.540"W	0.00	
11022.00†		137.156		3133.62		2130.87		438006.60	32°12'10.983"N	103°47'41.753"W	0.00	
11122.00†	ALL ALL PROPERTY OF A PROPERTY OF A	And the state of t		A		The state of the s	All all and the second second second second second		32°12'10.254"N	The state of the s		
11222.00†		137.156		3333.61			666669.96	437859.97	32°12'09.526"N	103°47'40.179"W	0.00	
11322.00†		137.156		3433.60	-2517.54		666737.95	437786.66	32°12'08.797"N	103°47'39.392"W	0.00	
11422.00†							666805.95	437713.34	32°12'08.068"N	103°47'38.605"W	0.00	
11522.00†										103°47'37.818"W		
										103°47'37.031"W	0.00	
11722.00†									32°12'05.881"N	103°47'36.244"W	0.00	
11822.00†									32°12'05.152"N	103°47'35.457"W	0.00	
11922.00†									32°12'04.423"N	103°47'34.670"W	0.00	
12022.00†									32°12'03.694"N	103°47'33.882"W	0.00	
12122:00†	89.463	137.156	8127.63	4233.57	-3104.08	2878.85	667281.90	437200.15	32°12'02 966"N	103°47'33'095"W	0.00	



Planned Wellpath Report Prelim_1 Page 5 of 5



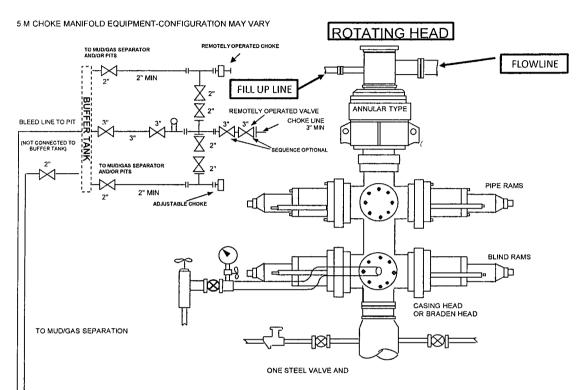
RECER	ENCE WELLPATH IDENTIFICATION	4 May 12 Sept	
Operator	BOPCO, L.P.	Slot	No.392H SHL
Area	Eddy County, NM	Well	No.392H
Field	Poker Lake Unit	Wellbore	No.392H PWB
Facility	Poker Lake Unit No. 392H		

WELLP	ATH DA	TA (15	2 station	ns) †=	interpo	lated/ex	ktrapolate	ed station	THE PROPERTY OF THE PROPERTY O	* Australian unter the state of	(<u>, , , , , , , , , , , , , , , , , , , </u>	
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†		137.156				2946.84	667349.89	437126.84	32°12'02.237"N	103°47'32.308"W	0.00	
12322.00†	89.463	137.156	8129.50	4433.56	-3250.72	3014.84	667417.88	437053.53	32°12'01.508"N	103°47'31.521"W	0.00	
12422.00†	89.463	137.156	8130.44	4533.55	-3324.04	3082.84	667485.88	436980.21	32°12'00.779"N	103°47'30.734"W	0.00	
12522.00†									32°12'00.050"N	103°47'29.947"W	0.00	
12622.00†										103°47'29.160"W	0.00	
12722.00†									32°11'58.592"N	103°47'28.373"W	0.00	
12822.00†									32°11'57.863"N		0.00	
12922.00†									32°11'57.134"N		0.00	
13022.00†									32°11'56.406"N		0.00	
13122.00†	89.463	137.156	8137.00	5233.52	-3837.26	3558.82	667961.83	436467.02	32°11'55.677"N	103°47'25.225"W	0.00	
13222.00†	89.463	137.156	8137.93	5333.52	-3910.58	3626.82	668029.82	436393.71	32°11'54.948"N	103°47'24.439"W	0.00	
13322.00†									32°11'54.219"N	103°47'23.652"W	0.00	
13422.00†	·							1	32°11'53.490"N		0.00	
13522.00†									32°11'52.761"N		0.00	
13622.00†	89.463	137.156	8141.68	5733.50	-4203.85	3898.81	668301.80	436100.46	32°11'52.032"N	103°47'21.291"W	0.00	
13722.00†				L				<u></u>	32°11'51.303"N	103°47'20.504"W	0.00	
13762.78	89.463	137.156	8143.00 ¹	5874.28	-4307.06	3994.54	668397.52	435997.25	32°11'51.006"N	103°47'20.183"W	0.00	No.392H PBHL

TARGETS	- Line representation of the second second second second			udwaherinasemakubs+5-	4-1		and the second leaves a second that the second color-year-	THE RESERVE THE PARTY OF THE PA	
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No.392H Target #1		8093.00	-383.47	355.64	664758.85	439920.60	32°12'30.012"N	103°48'02.302"W	point
1) No.392H PBHL	13762.78	8143.00	-4307.06	3994.54	668397.52	435997.25	32°11'51.006"N	103°47'20.183"W	point

SURVEY PROGRAM - Ref Wellbore: No.392H PWB Ref Wellpath: Prelim_1											
Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	Wellbore							
[ft]	[ft]										
22.00	13762.78	NaviTrak (Standard)		No.392H PWB							

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



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

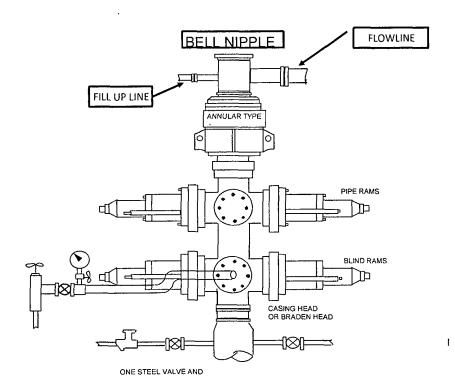
- A. One double gate Blowout preventer with lower pipe rams and upper blind rams, all hydraulically controlled.
- B. Opening on preventers between rams to be flanged, studded or clamped and at least two inches in diameter.
- C. All connections from operating manifold to preventers to be all steel hose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

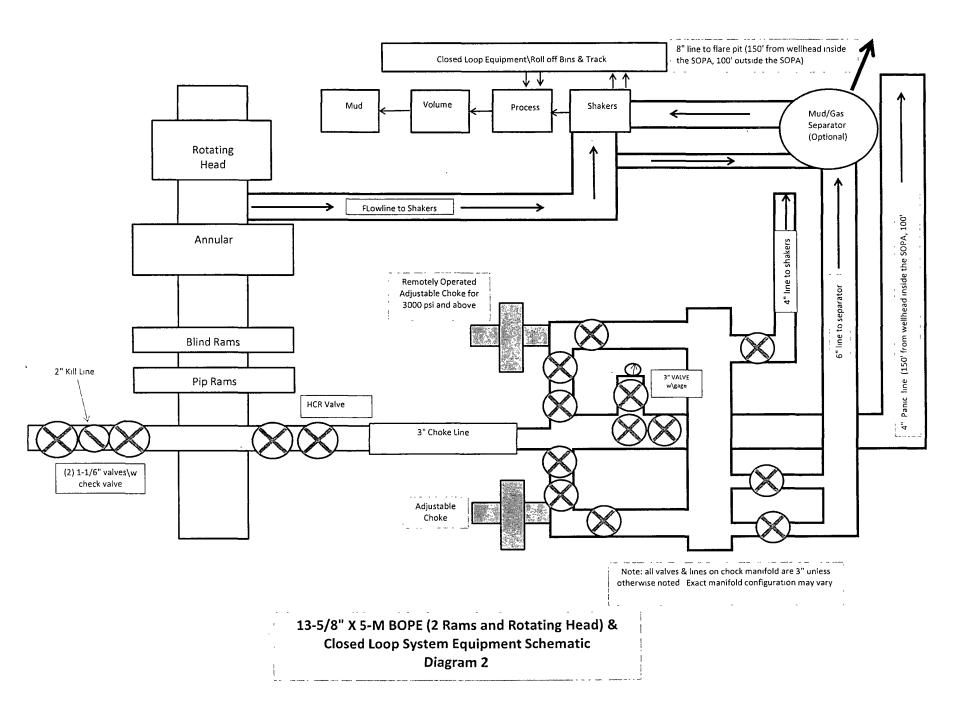
BOPCO, L. P. 13 5/8" X 5-M WP BOPE WITH 5-M WP ANNULAR

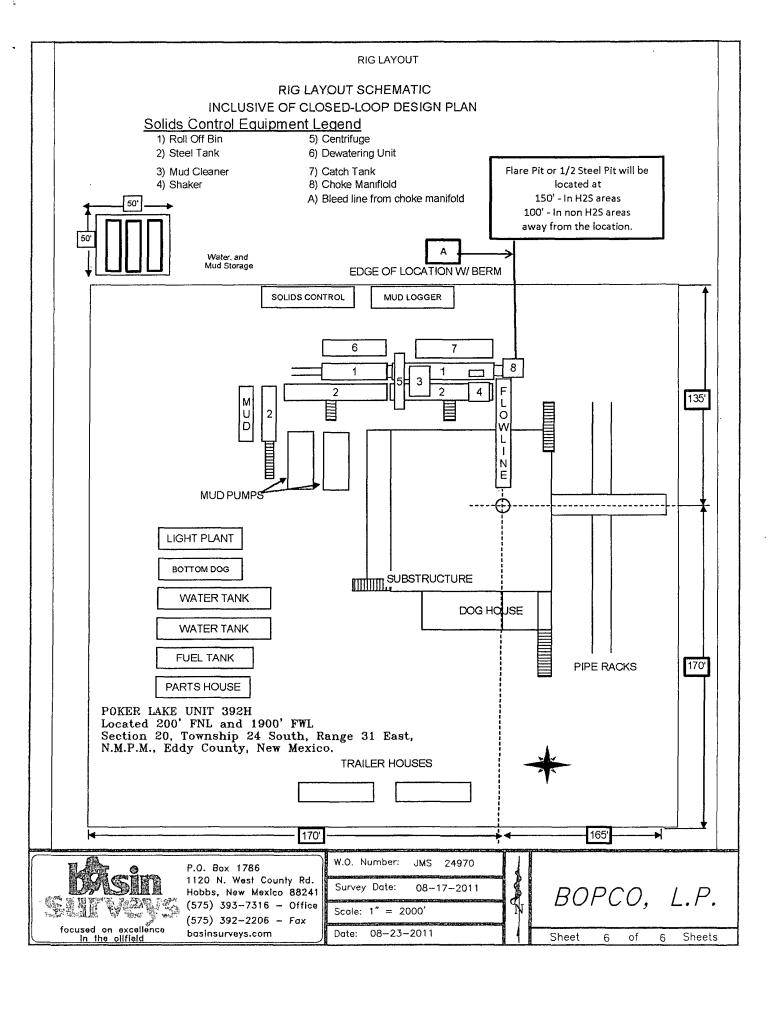


THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. One double gate Blowout preventer with lower pipe rams and upper blind rams, all hydraulically controlled.
- B. Opening on preventers between rams to be flanged, studded or clamped and at least two inches in diameter.
- C. All connections from operating manifold to preventers to be all steel hose or tube a minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with 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





HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H2S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

Common	Chemical	Specific	Threshold	Hazardous	Lethal Concentration
Name	Formula	Gravity	Limit	Limit	
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur	SO ₂	2.21	2 ppm	N/A	1000 ppm
Dioxide		Air = 1			

Contacting Authorities

BOPCO L.P. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New México's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S CONTINGENCY PLAN EMERGENCY CONTACTS

432-683-2277

Key Personnel			
Name	Title	Cell Phone	Number
Stephen Martinez			
Buddy Jenkins		432-23	38-3295
Bill Dannels	Engineer	432-6	38-9463
	Engineer	432-5	57 <u>-</u> 7157
Charles Warne	Engineer	432-80	01-1101 01-1302
Onancs Warne	Liigilieei	402-00	74-1002
Ambulance		911	
State Police		575-74	16-2703
City Police		575-74	16-2703
Fire Department		575-74	16-2701
Local Emergency Plan	nning Committee	575-74	16-2122
New Mexico Oil Conse	ervation Division	575-74	18-1283
Carlsbad			
Ambulance		911	
State Police		575-88	35-3137
City Police		575-88	35-2111 .
Sheriff's Office		5/5-88	3/-/551
Liro Ilanortmant		L/L U)7
Local Emergency Plan	nning Committee	575-88	37-6544
US Bureau of Land Ma	anagement	575-88	37-6544
New Mexico Emergen	cy Response Commission (Sant	a Fe)	505-476-9600
24 Hour			505-827-9126
New Mexico State Em	ergency Operations Center		505-476-9635
National Emergency R	Response Center (Washington, D	C)	_800-424-8802
Other			
Boots & Coots IWC			or 281-931-8884
Cudd PressureContro			or 432-570-5300
		575-746-2757	
B. J. Services		575-746-3569	
	24 th St. Lubbock, Texas		_806-743-9911
Aerocare – R3, Box 49			_806-747-8923
•	2301 Yale Blvd SE #D3, Albuq., N		505-842-4433
S B Air Med Service -	2505 Clark Carr Loop SE, Albuq	., NM	_505-842-4949

Proposed H2S Safety Schematic

1) Location of windsocks. 4) Terrain of surrounding area (Please refer to page 2 of survey plat package also see point 11 of multisurface use plan)

2) Location of H2S alarms. 5) Location of flare line(s) and pit(s) (Please refer to page 6 of survey plat package and diagram)

3) Location of briefing areas. 6) Location of caution and/or danger signs.

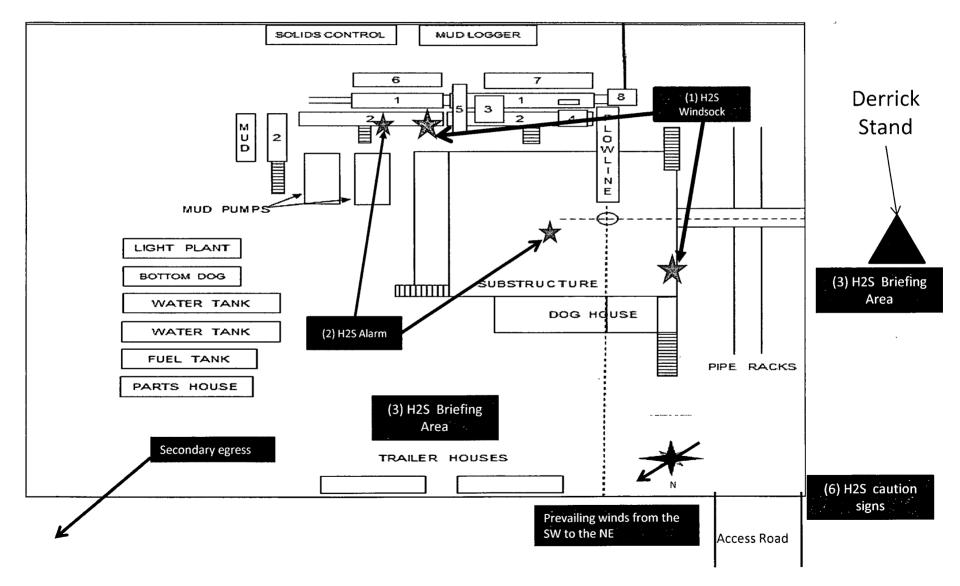
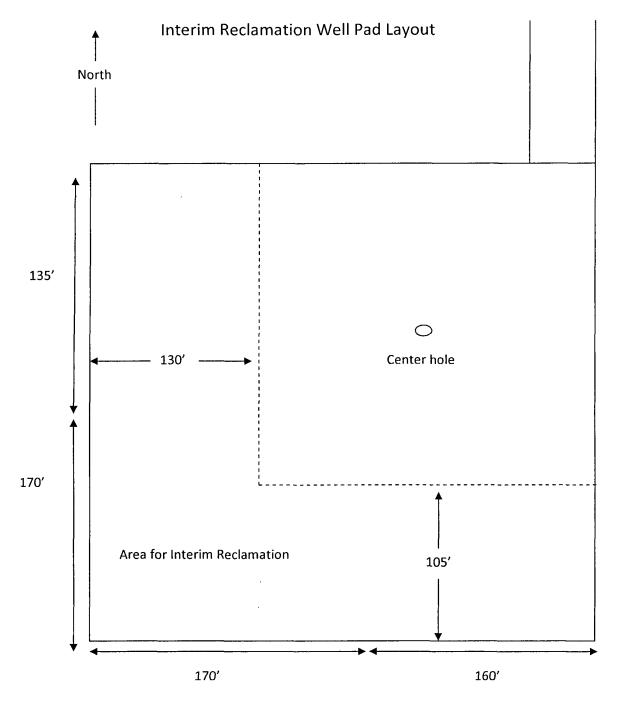


Diagram 3

BOPCO, Poker Lake Unit 392H



Location On-Site Notes

On August 2, 2011 a BLM on-site meeting was held with Cecil Watkins- BOPCO, L.P., Randy Rust- BLM, and Robert Gomez- Basin Surveys. The Poker Lake Unit 392H was moved 100' south from its original location to avoid power lines and 400' east to avoid a large sand dune area. The V-Door will face west.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: BOPCO
LEASE NO.: NM0506A
WELL NAME & NO.: 392H Poker Lake Unit
SURFACE HOLE FOOTAGE: 200' FNL & 1900' FWL
BOTTOM HOLE FOOTAGE 150' FSL & 550' FWL
LOCATION: Section 20, T.24S., R.31E., NMPM
COUNTY: 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 Site
☐ Noxious Weeds
⊠ Special Requirements
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Commercial Well Determination
◯ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
□ Drilling
Logging Requirements
Waste Material and Fluids
☐ 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)

<u>Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:</u>

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

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

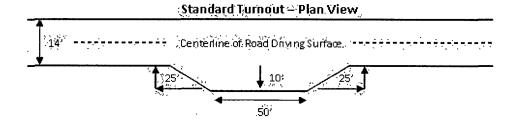
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

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:

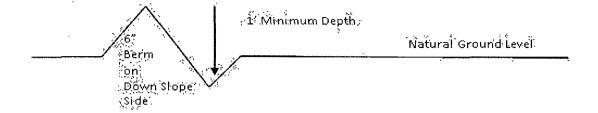


Drainage

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.

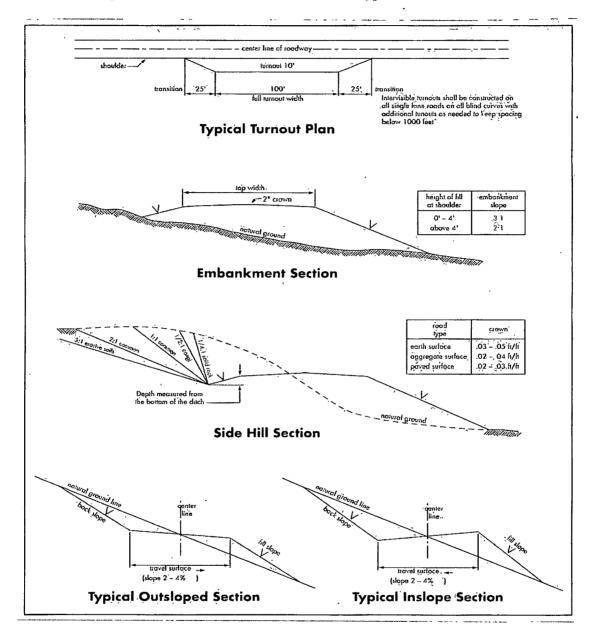


Figure 1 - Cross Sections and Plans For Typical Road Sections

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.

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 900 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: (Ensure casing is set in the Castile or Lamar at approximately 4325')
 - ⊠ Cement to surface. If cement does not circulate see B.1.a, c-d above.

- 3. The minimum required fill of cement behind the 7 inch production easing 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

B. 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 20 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 then suspended across these features.
- 9. The pipeline shall be buried with a minimum of <u>24</u> 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.

17. Special Stipulations:

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

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).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

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

^{*}Pounds of pure live seed:

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