FA-17-1927

		OCD AITES	a	L. (L	, (0)	
Form 3160-3 (April 2004)				OMB N	APPROVED lo. 1004-0137 March 31, 2007	
UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MA	INTERIO			5 Lease Serial No. BHL.NM-902862 LC 068430		
APPLICATION FOR PERMIT TO				6. If Indian, Allotee or Tribe Name See pg 1 of 8pt DP for lease info.		
la. Type of work: DRILL REEN	TER			7 If Unit or CA Agr NMNM 71010	eement, Name and No.	
lb. Type of Well: Oil Well Gas Well Other	\	Single ZoneMultip	ple Zone	8. Lease Name and Well No. Poker Lake Unit 324H		
2. Name of Operator BOPCO, L. P.		c 2607.	3/>	9. API Well No.	40185	
3a. Address P. O. Box 2760		10. (include area code)		10. Field and Pool, or	10/1	
Midland, TX 79702		83-2277	,		W (Delaware)	
4. Location of Well (Report location clearly and in accordance with		,		11. Sec., T. R. M. or I	3lk and Survey or Area	
At surface SWNW, UL E, 2120' FNL & 480' At proposed prod. zone 1350' FNL & 300' FEL, Sec16-T2	ŕ	, 6		Sec 23, T24S-	R30E	
14. Distance in miles and direction from nearest town or post office* 20 miles East of Malaga	N	ORTHUDE	ŷ ij s	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)		acres in lease		g Unit dedicated to this cres	well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 318'	19. Propos 16,050'	eed Depth MD \ 7,651' TVD		/BIA Bond No. on file : 000050		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Appro	ximate date work will sta	rt*	23. Estimated duration		
3,434' GL		12/01/2012		30 Days		
		achments	•			
The following, completed in accordance with the requirements of Ons	hore Oil and Ga	s Order No.1, shall be a	ttached to th	is form:		
Well plat certified by a registered surveyor. A Drilling Plan.	,	Item 20 above).	•	ns unless covered by an	n existing bond on file (see	
 A Surface Use Plan (if the location is on National Forest Syste SUPO shall be filed with the appropriate Forest Service Office). 	m Lands, the	Operator certific Such other site authorized office	specific info	ormation and/or plans a	s may be required by the	
25. Signature Braden	Nam	e (Printed/Typed) Jeremy Braden			Date 6-21 - 12	
Fitle Engineering Assistant						
Approved by (Signature) /s/ Don Peterson	Nam	e (Printed/Typed) s/	Don Pe	terson	Date	

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.

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

APPROVAL FOR TWO YEARS

Office

CAPLSBAD FIELD OFFICE

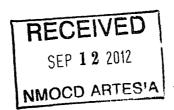
*(Instructions on page 2)

Title

FIELD MANAGER

Conditions of approval, if any, are attached.

Carlsbad Controlled Water Basin



SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

BOPCO, L.P.

P. O. Box 2760 Midland, Texas 79702

432-683-2277

FAX-432-687-0329

June 18, 2012

Bureau of Land Management Carlsbad Field Office 620 East Green Street Carlsbad, New Mexico 88220-6292

Attn: Mr. Don Peterson – Assistant Field Manager, Minerals

RE: APPLICATION FOR PERMIT TO DRILL

POKER LAKE UNIT #324H

2120' FNL, 480' FWL, SEC. 23, T24S, R30E, EDDY COUNTY, NM

Dear Mr. Peterson,

In reference to the above captioned well, I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the attached eight point drilling plan and multi-use surface plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by BOPCO, L.P. and it's contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

If you have any questions regarding the accuracy of the plan provided herein, please do not hesitate to contact me at

(432) 683-2277.

Stephen M. Martinez

Sincerely,

Division Drilling Superintendent

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax: (575) 748-9720

DISTRICT III

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 67505 Phone (505) 476-3460 Fax. (505) 476-3462

1000 Rio Brazos Rd., Aztec, NM 87410 Phone (505) 334-6178 Fax. (505) 334-6170

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised August 1, 2011

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, New Mexico 87505 Submit one copy to appropriate District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

30-015-40le	96047	Pool Name Pool N	
Property Code 306402		Property Name ER LAKE UNIT	Well Number 324H
OGRID No. 260737		Operator Name OPCO, L.P.	Elevation 3434'

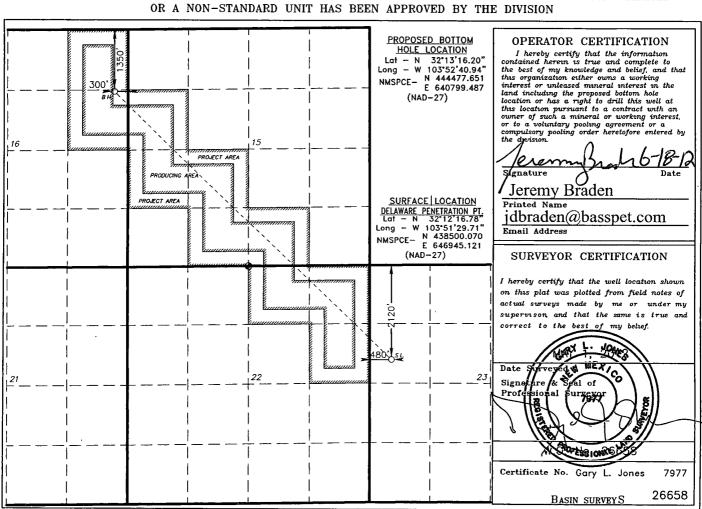
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Ε	23	24 S	30 E		2120	NORTH	480	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
Н	16	24 S	30 E		1350	NORTH	300	EAST	EDDY
Dedicated Acres Joint or Infill Consolidation Code				Code Or	der No.				
400									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



Surface casing is to be set into the Rustler below all fresh water sands at an approximate depth of 940' and cement circulated to surface.

7" casing will be set at approximately 7,876' MD, 7,690' TVD (In 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- Federal Lease: LC 068431, LC 068430

Bottom Hole Lease Numbers - Federal Lease: NM 002862

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 324H

LEGAL DESCRIPTION - SURFACE: 2120' FNL, 480' FWL, Section 23, T24S, R30E, Eddy County, NM.

BHL: 1350' FNL, 300' FEL, Section 16, T24S, R30E, Eddy County, New Mexico.

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

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

Anticipated Formation Tops: KB 3456' (estimated)

GL 3434'

Formation Description	Est from	Est (MD)	SUB-SEA TOP	BEARING
the property of the second distance and the second transfer and position to a second transfer and	KB (TVD)	AND A STATE OF THE	ALERS IN ME	Militaria de la Carlo de Carlo
T/Fresh Water	401'	401'	+ 3,055'	Fresh Water
T/Rustler	656'	656'	+ 2,800'	Barren
T/Salado	950'	950'	+ 2,506'	Barren
T/Lamar	4,015'	4,015'	- 559'	Oil/Gas
T/Ramsey	4,045'	4,045'	- 589'	Oil/Gas
Cherry Canyon	6,166'	6,166'	- 2,710'	Oil/Gas
KOP	7,176'	7,176'	- 3,720'	Oil/Gas
LBC "8A" Sand	7,563'	7,627'	- 4,107'	Oil/Gas
EOC	7,753'	8,132'	- 4,297'	Oil/Gas
Target #1	7,753'	8,132'	- 4,297'	Oil/Gas ·
TD Horizontal Hole	7,651'	16,050'	- 4,195'	Oil/Gas

POINT 3: CASING PROGRAM

TYPE	INTERVAL MD	HOLE N	PURPOSE	INSTALLATION TYPE
20"	0' – 120'	26"	Conductor	Contractor Discretion
13-3/8", 48#, H-40, or 54.5#, J-55 8rd, ST&C*	0' – 940'	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' - 4,035'	12-1/4"	Intermediate	New
7", 26#, N-80, Buttress or 8rd LTC*	0' – 7,876'	8-3/4"	Production	New

Completion System	等是"但这种"的"是是这是	activities and	经验证的 是是一种的。	Ż.
4-1/2", 11.6#, HCP-110 8rd. LT&C	7,826' - 16,050'	6-1/8"	Completion System New	٦
Or BTC, or Ultra Flush Joint*				╛

^{*} Depending on availability.

CASING DESIGN SAFETY FACTORS:

TYPE	TENSION."	COLLAPSE / F	BURST
13-3/8", 48#, H-40, 8rd, ST&C*	8.30	1.57	1.66
13-3/8", 54.5#, J-55, 8rd, STC*	19.37	2.47	2.62
9-5/8", 40#, N-80, 8rd, LT&C*	5 41	1.33	2.55
9-5/8", 40#, J-55, 8rd, LT&C*	4.62	1 20	1.75
7", 26#, N-80, Buttress*	3.50	1.29	1.69
7", 26#, N-80, 8rd, LTC*	2.94	1.21	1.69

Completion System			
4-1/2", 11.6#, HCP-110 8rd. LT&C	3.63	2.09	2.49
4-1/2", 11.6#, HCP-110 BTC	4 77	2.18	2.49
4-1/2 , 11.0#, 1101 -110 B10	4.77	2.10	2.45
4-1/2", 11.6#, HCP-110 Ultra Flush Joint	3.12	1.76	2.49

^{*} Depending on availability.

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" \times 5,000 psi annular, 13-5/8" \times 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.

BOPCO, L.P. would like to utilize an armored, 3", 5000 psi WP flex hose for the choke line in the drilling of the well. This is rig equipment and will help quicken nipple up time thus saving money without a safety problem. The hose itself is rated to 5000 psi ,and has 5000 psi flanges on each end. This well is to be drilled to 16,050' MD (7,651' TVD) and max surface pressure should be +/-1,897 psi as prescribed in onshore order #2 shown as 0.22 psi/ft less the actual BHP. Thus, 2000 psi BOPE (for 12-1/4" hole) and 3000 psi BOPE (for 8-3/4" and 6-1/8" hole) is all that is needed for this well. Please refer to diagram 2 for choke manifold and closed loop system layout. If an armored flex hose is utilized, the company man will have all of the proper certified paper work for that hose available on location. There is a list of possible flex hose serial numbers that could be used attached with the choke manifold diagram

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

POINT 5: MUD PROGRAM

<u>DEPTH</u>	指导的扩展等的人	MUD TYPE	WEIGHT :	<u>FV</u>	<u> PV</u>	YP ://	FL FL	Ph .
0 -940'	FW Spud Mud	8.5 – 9.2	38-70	NC	NC	NC	10.0	
940' - 4,035'	Brine Water	9.8 – 10.2	28-30	NC	NC	NC	9.5 – 10.5	
4,035' - 7,876'	FW/Gel	8.7 – 9.0	28-36	NC	NC	NC	9.5 – 10.0	
7,876'-16,050'	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 X See COA

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

hole.

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

Mud Logger: Rigged up at 100'

C) CONVENTIONAL CORING

None anticipated

D) CEMENT

INTERVAL	AMOUNT SXS		TYPE	GALS/SX	PPG	FT ^{3/} SX
SURFACE: Lead: 0' – 640'	518	640	Class C +2% CACL + 4% Bentonite + 0.25 LB/SK Cello Flake + 3 lb/sk LCM-1	8.69	13.50	1.75
Tail: 640' – 940'	345	300	Class C + 2% CACL + 0.25 LB/SK CF	6.35	14.80	1.35
INTERMEDIATE:			0.25LB/SK Cello Flake + 3 lb/sk LCM-1			
Lead: 0' - 3,535'	1080	3535	EconoCEM HLC + 5% CaCl + 5#/sk Gilsonite	9.32	12.90	1.85
Tail: 3,535' – 4,035'	270	500	HalCem C	6.34	14.80	1.33
Production Stage 1:	5			,		
Lead: 5,000' – 7,014'	188	2176	Tuned Light + 0.75% + CFR-3 + 1.5#/sk CaCl	12.41	10.20	2.76
Tail: 7,014' – 7,876'	116	700	VersaCem-PBSH2 + 0.4% Halad-9	8.76	13.0	1.65
DV Tool @ 5,000'						
Stage 2:						
Lead: 3535' – 4,500'	100	965	EconCem 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.

1st Intermediate – 50% excess above fluid caliper 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.

E) COMPLETIONS SYSTEM

A 4-1/2" completion system with open hole packers will be run in the producing lateral to a depth of 16,125'. The top of the Completion System will be set at approximately 8,128'. 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 7,176' at which point a directional hole will be kicked off and drilled at an azimuth of 314.206 degrees, building angle at 12.01 deg/100' to 60 degrees at a TVD of 7,590' (MD 7,676'). This angle and azimuth will be maintained for 200' to a measured depth of 7,876' (7,690' 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 314.20 degrees, inclination of 90.74 degrees to a measured depth of 16,050', TVD 7,651'. 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 inside the H2S area, H2S equipment will be rigged up after setting surface casing. For the wells located inside the H2S area the flare pit will be located 150' from the location. For wells located outside the H2S area flare 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 3628 psi (max) or MWE of 9.0 ppg is expected. Lost circulation may exist in the Delaware Section from 4,015'-7,756' 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/btc



BOPCO, L.P.

Location: Eddy County, NM
Field: Poker Lake Unit
Facility: Poker Lake Unit No. 324H

Slot[·] No. 324H SHL Well: No. 324H Wellbore: No. 324H PWB



Well Profile Data											
Design Comment	(ft) GM	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)			
Tie On	22.00	0 000	314 206	22,00	0 00	0 00	0 00	0 00			
KOP	7176 50	0 000	314 206	7176 50	0 00	0 00	0.00	0.00			
EOB/SOH	7676 50	60 000	314 206	7590 00	166 45	-171 13	12 00	238 73			
EOH/SOB	7876 50	60 000	314 206	7690 00	287 22	-295.29 -	0.00	411 94			
EOB/SOH	8132 71	90.745	314 206	7753.92	458 00	-470.88	12.00	656.88			
TD/PBHL	16050 31	90 745	314 206	7651 00	5977 99	-6146 05	0.00	8573 82			

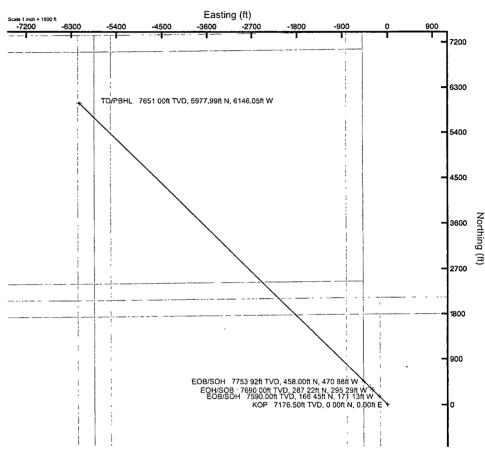
Location Information										
	Facility Name		Gnd East (US ft) Gnd North (US ft)		Latitude Longitude					
Poke	r Lake Unit No 3	24H	646945 121	438500 070	32*12'16 780*N	103°51'29 710"W				
Slot	Local N (f.)	Local E (fl)	Grid East (US ft)	Gnd North (US ft)	Latitude	Longitude				
No 324H SHL	0.00	0.00	646945 121	438500 070	32*12'16 780"N	103*51'29 710"W				
Rig on No 324H	SHL (KB) to vlud	line (At Slot No	324H SHL)		22ft					
Mean Sea Level	to Mud line (At Sk		-3434ft							
Rig on No 324H	SHL (KB) to vlear		3456ft							

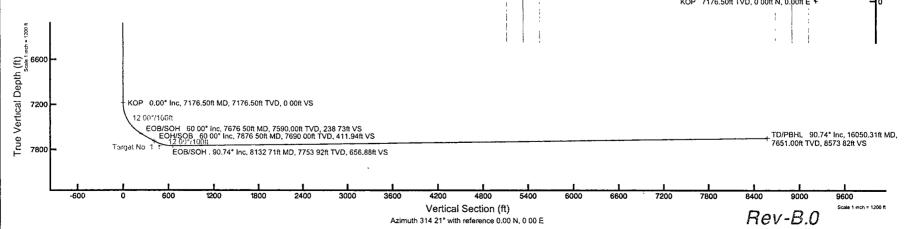
Targets								
Name	MD (ft)	TVD (ft)	Local 4 (ft)	Local E (ft)	Gnd East (US t)	Grid North (US ft)	Lantude	Longitude
Poler Lake Unit No. 324H (Rev-0)	16050 31	7651 00	5977.99	-6146 05	640799 49	444477 65	32°13'16 198'N	103°52'40 942'W
Targel No 1	<u> </u>	7756 00	331 89	341 21	646603 93	438831 93	32°12'20 079'N	103°51'33 664'W

l	Bottom Hole Location									
H	MD (ft) Inc (") Az (") TVD (ft) Local N (ft) Local E (ft) Gnd East (US ft) Grid North (US ft) Letitude Longitude									
l (16050 31	90 745	314 205	76>1 00	5977 99	-5146 05	640799 49	444477 65	32*13 16 198 N	103°52 40 942°W



BGGM (1945 0 to 2013 0.) Dip 60 05° FeMd 48475 9 nT Magnetic North is 7.68 degrees East of Tree North (s 523/2012) To correct azemulh from Troe to Grid subtract 0.5 degrees To correct azemulh from Troe to Grid subtract 0.5 degrees To carred azemulh from Magnetic to Grid 460 740 degrees For example if the Megnetic North Anzimit = 90 degr., then the Grid North Azemulh = 90 - 7 43 = 57 43







Planned Wellpath Report Rev-B.0 Page 1 of 8



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Operator	BOPCO, L.P.	Slot	No. 324H SHL
Area	Eddy County, NM	Well	No. 324H
Field	Poker Lake Unit	Wellbore	No. 324H PWB
Facility	Poker Lake Unit No. 324H		

REPROBLEMENTAL	ORMATION		
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Daviarcm
Scale	0.999934	Report Generated	6/12/2012 at 2:28:07 PM
Convergence at slot	0.25° East	Database/Source file	WA_Midland/No324H_PWB.xml

AMELIPATHIEOCATION:										
1	Local coordinates		Grid co	ordinates	Geographic coordinates					
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude				
Slot Location	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W				
Facility Reference Pt		ļ	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W				
Field Reference Pt		1	630272.49	405347.85	32°06'49.387"N	103°54'45.266"W				

VALDER ENVERTED VALUE AND THE SE			
Calculation method	Minimum curvature	Rig on No. 324H SHL (KB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Rig on No. 324H SHL (KB) to Mean Sea Level	3456.00ft
Vertical Reference Pt	Rig on No. 324H SHL (KB)	Rig on No. 324H SHL (KB) to Mud Line at Slot (No. 324H SHL)	22.00ft
MD Reference Pt	Rig on No. 324H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	314.21°



Planned Wellpath Report Rev-B.0 Page 2 of 8



Kinhokid	AGE MELLEPATHIDENSHEIGATION.		
Operator	BOPCO, L.P.	Slot	No. 324H SHL
Area	Eddy County, NM	Well	No. 324H
Field	Poker Lake Unit	Wellbore	No. 324H PWB
Facility	Poker Lake Unit No. 324H		

WELLPA	TH DATA ([167 statio	ons) †=i	interpolat	ed/exti	rapola	ted station						
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir	DLS [°/100ft]
0.00†	0.000	314.206	0.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0 00
22.00	0.000	314.206	22.00	0 00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
122.00†	0.000	314.206	122.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
222.00†	0.000	314.206	222 00	0 00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
r. ≥322.00†	0.000	314.206	322.00	0.00	<u> 0.00</u>	0.00	646945.12	438500.07	32°12'16.780"N	27 103°51'29'710 "W		0.000	0.00
422.00†	0.000	314.206	422.00	0 00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
522.00†	0.000	314.206	522.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
622.00†	0.000	314.206	622.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
722.00†	0.000	314.206	722.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
822.00†	0.000	314.206	822:00	.0.00	0:00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29 710"W	0.00	-01000	0.00
922.00†	0.000	314.206	922.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0 000	0.00
1022.00†	0.000	314.206	1022.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
1122.00†	0.000	314.206	1122.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
1222.00†	0.000	314.206	1222.00	0 00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
1322.00†	0:000	314.206	1322.00	************* 0.00	0.00	0.00	646945.12	438500:07	32°12'16:780"N	-103°51'29.710"W	0.00	5.44.20.000	0.00
1422.00†	0.000	314.206	1422.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
1522.00†	0.000	314.206	1522.00	0 00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
1622.00†	0.000	314.206	1622.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
1722.00†	0 000	314.206	1722.00	0 00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
1822.00†	0.000	314.206	1822.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29'710"W	0.00	0.000	0.00
1922.00†	0.000	314.206	1922.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
2022.00†	0.000	314.206	2022.00	0.00	0.00	0.00	646945.12	.438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
2122.00†	0.000	314.206	2122.00	0 00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0 00	0.000	0.00
2222 00†	0.000	314.206	2222.00	0.00	0 00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0 000	0.00
± 2322.00†	0.000	314.206	2322.00	0.00	> 0.00	< 0.00	646945.12	438500.07	32°12'16.780"N	103%51 <u>/29.710"W</u>	0.00	0.000	0.00
2422.00†	0.000	314.206	2422.00	0 00	0.00	0.00	646945.12	438500.07	32°12'16 780"N	103°51'29.710"W	0.00	0.000	0.00
2522 00†	0 000	314.206	2522 00	0.00	0.00	0.00	646945.12	438500.07	32°12'16 780"N	103°51'29.710"W	0 00	0 000	0 00
2622.00†	0 000	314.206	2622.00	0 00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0 00	0.000	0.00
2722.00†	0.000	314.206	2722.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
2822.00†	0.000	314.206	₹ 2822:00	0.00	±0.00	0.00	646945.121	438500.07	32°12'16.780"N	103°51'29.7(10"W	0:00	. <i>**</i> € 5.0.000	. 0.00,



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REDEPTED	ZGEZMEDEPAGH IDENHINGATEON		
Operator	BOPCO, L.P.	Slot	No. 324H SHL
Area	Eddy County, NM	Well	No. 324H
Field	Poker Lake Unit	Wellbore	No. 324H PWB
Facility	Poker Lake Unit No. 324H		

WELLPA	ΓΗ DATA (167 statio	ns) †= i	interpolat	ed/extr	apola	ted station		vide and so makes, make the second and the second and a second se	and the state of t			
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]
2922.00†	0.000	314.206	2922.00	0.00	0.00		646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
3022.00†	0.000	314 206	3022.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
3122.00†	0.000	314.206	3122.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
3222.00†	0.000	314.206	3222.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
3322.00†	0.000	314.206	3322:00	∌ ∮ 0.00	The state of the s		646945.12		to the first first to the first	Confident Configuration and the second se		0.000	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWI
3422.00†	0.000	314.206	3422.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
3522.00†	0.000	314.206	3522.00	0 00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0 000	0.00
3622.00†	0.000	314.206	3622.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
3722.00†	0.000	314.206	3722.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
3822:001	0.000	Appendiculation of the property of the propert	3822.00	0.00	0.00	20:00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W		0.000	0.00
3922 00†	0.000	314 206	3922.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16 780"N	103°51'29.710"W	0.00	0.000	0.00
4022.00†	0.000	314.206	4022.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
4122.00†	0.000	314.206	4122.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
4222.00†	0.000	314.206	4222.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
4322.001	0.000	314.206	4322.00	₽ ₩ (#.0.00	0.00	0.00	646945:12	438500.07	22°12'16.780"N	103°51'29:710"\W	0.00	0.000	0.00
4422.00†	0 000	314.206	4422.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
4522.00†	0.000	314.206	4522.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0 00	0.000	0.00
4622.00†	0.000	314.206	4622.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
4722 00†	0 000	314.206	4722.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0 000	0:00
4822.00†	0.000	314.206	4822.00	0.00	0.00	0.00	4 € 646945.12	438500.07	32°12'16.780"N	103°51'29:710"W	0.00	0.000	0.00
4922.00†	0.000	314.206	4922.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
5022.00†	0.000	314.206	5022.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
5122 00†	0.000	314.206	5122.00	0 00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
5222 00†	0 000	314.206	5222.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
5322.00†	0.000 €	314.206	5322.00	0.00	0.00	(0.00)	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
5422 00†	0 000	314.206	5422.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
5522 00†	0.000	314.206	5522 00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0 000	0.00
5622 00†	0.000	314.206	5622.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0 00
5722 00†	0.000	314.206	5722.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
5822.00†	0.000	314.206	5822.00	0!00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	.0.00
1 Tangent Heart or September 1 Tangent Property		aminor in commencement of the	- Tanana Salamana and Salamana and Salamana		represents to the transcription	-				or a second seco			



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(रेक्ट्रामा व्यक्ति	NGE WELLPATHIDENTHEICATION		
Operator	BOPCO, L.P.	Slot	No. 324H SHL
Area	Eddy County, NM	Well	No. 324H
Field	Poker Lake Unit	Wellbore	No. 324H PWB
Facility	Poker Lake Unit No. 324H		

6022.00 0.000 314.206 6022.00 0.00 0.00 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0.000 0.00 6222.00 0.000 314.206 6222.00 0.00 0.00 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0.000 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0.00 0.00 6622.00 0.00 314.206 6522.00 0.00 0.00 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0.00 0.00 6622.00 0.00 314.206 6522.00 0.00 0.00 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0.00 0.00 6622.00 0.00 314.206 6522.00 0.00 0.00 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0.000 0.00 6622.00 0.00 314.206 6622.00 0.00 0.00 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0.000 0.00 6622.00 0.00 314.206 6822.00 0.00 0.00 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0.000 0.00 6622.00 0.00 314.206 6822.00 0.00 0.00 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0.00 0.00 6622.00 0.00 314.206 6322.00 0.00 0.00 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0.00 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0.00 0.00 0.00 646945.12 43850.07 32*1216.780*N 103*5129.710*W 0.00 0	WELLPA	VELLPATH DATA (167 stations) † = interpolated/extrapolated station												
5922.001		Inclination	Azimuth							Latitude	Longitude			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			- 19							2021011 (50010 1	102061100 510071			
6122.00† 0.000 314.206 6122.00 0.00 0.00 0.00 646945.12 438500.07 32*12*16.780*N 103*512*9.710*W 0.00 0.000 0.00 0.00 0.00 0.000 0.	in a management of a													
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ļ.,——													
Content	the same of the sa													0.00
6422.00† 0.000 314.206 6422.00 0.00 0.00 0.00 646945.12 438500.07 32°12′16.780°N 103°5129.710°W 0.00 0	AND THE PERSON NAMED IN THE PARTY OF THE PAR	MATTER THE PROPERTY OF THE PROPERTY OF THE	MET WERE PRODUCTED OF THE PARK	eteracioni mana magazine de proposicio de		A STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	TOTAL CONTRACTOR CONTRACTOR	and the control of the Control of the Control	myramberiotkarterinaryas warmers.	CONTRACTOR OF THE PROPERTY AND ADDRESS OF THE PROPERTY	TO THE RESIDENCE OF THE PARTY O	The same of the sa		Property and property and
6522.00† 0.000 314.206 6522.00 0.00 0.00 0.00 646945.12 438500.07 32°12′16.780°N 103°51′29.710°W 0.00 0.000 0.00 0.00 0.00 0.00 0.00		the street of the spiller with the service of	maridamentalisment out 13his	The same of the same of the same of	A Silvery of the State of the same of the		F- 0.00a		The state of the s				Mary Harry	Section Commission and Commission of the Commiss
6622.00† 0.000 314.206 6622.00 0.00 0.00 0.00 646945.12 438500.07 32°12′16.780°N 103°51′29.710°W 0.00 0.000 0.00 0.00 0.00 0.00 0.00	the second second second				0.00		0.00					0.00		
6722.00 0.000 314.206 6722.00 0.00 0.00 0.00 646945.12 438500.07 32°12′16.780°N 103°51′29.710°W 0.00 0	6522.00†	0 000	314.206	6522 00	0.00	0.00	0.00	646945.12	438500 07	32°12'16 780"N	103°51'29.710"W	0.00	0 000	0 00
6822'00 0 000	6622.00†	0.000;		6622.00	0.00	0.00	0.00	646945.12	438500 07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0 00
6922.00 0 000 314.206 6922.00 0.00 0.00 0.00 0.00 646945.12 438500.07 32°12'16.780"N 103°51'29.710"W 0.00 0	6722.00†	0.000	314.206	6722.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
Total Tota	6822.00†	0.000	314.206	6822.00	0.00	0.00	0:00	646945.12	438500.07	32°12 <u>'16.780"N</u>	- 103°51'29.710"W	0.00	0.000	0.00
7122.00† 0.000 314.206 7122.00 0.00 0.00 0.00 0.00 646945.12 438500.07 32°12'16.780"N 103°51'29.710"W 0.00 0.00 0.00 0.00 7176.50 0.000 314.206 7176.50 0.00 0.00 0.00 646945.12 438500.07 32°12'16.780"N 103°51'29.710"W 0.00 0.000 0.00 0.00 0.00 0.00 0.00	6922.00†	0 000	314.206	6922.00	0.00	0 00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
7176.50	7022.00†	0 000	314.206	7022.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0:000	0.00
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	7122.00†	0.000	314.206	7122.00	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
T322.00 17.460 314.206 7319.76 22.00 15.34 -15.77 646929.35 438515.41 32°12′16.933″N 103°51′29.893″W 22.00 314.206 12.00	7176.50	0.000	314.206	7176.50	0.00	0.00	0.00	646945.12	438500.07	32°12'16.780"N	103°51'29.710"W	0.00	0.000	0.00
7422.00† 29.460 314.206 7411.32 61.74 43.05 -44.26 64690.87 438543.11 32°12′17.208″N 103°51′30.223″W 61.74 314.206 12.0 7522.00† 41.460 314.206 7492.63 119.64 83.42 -85.77 646859.36 438583.48 32°12′17.610″N 103°51′30.704″W 119.64 314.206 12.0 7622.00† 53.460 314.206 7560.12 193.19 134.70 -138.49 646806.64 438634.76 32°12′18.119″N 103°51′31.315″W 193.19 314.206 12.0 7676.50 60.000 314.206 7590.00 238.73 166.45 5171.13 64674.00 438666.51 32°12′18.19″N 103°51′31.315″W 238.73 314.206 12.0 7722.00† 60.000 314.206 7612.75 278.14 193.93 -199.38 646745.76 438693.98 32°12′18.708″N 103°51′32.020″W 278.14 314.206 0.0 7822.00† 60.000 314.206 7662.75 364.74 254.31 -261.46 646683.68 438754.36 32°12′19.308″N 103°51′32.740″W 364.74 314.206 0.0 7822.00† 65.460 314.206 7690.00 411.94 287.22 -295.29 646649.85 438787.27 32°12′19.635″N 103°51′33.132″W 411.94 314.206 0.0 7922.00† 65.460 314.206 7710.84 452.37 315.41 -324.27 646620.87 438815.45 32°12′19.635″N 103°51′33.132″W 411.94 314.206 0.0 812.00 7710.84 452.37 315.41 -324.27 646620.87 438815.45 32°12′19.635″N 103°51′33.420″W 452.37 314.206 12.0 8122.00† 89.460 314.206 7753.94 646.17 450.53 -463.20 646481.95 438881431 32°12′12.0572″N 103°51′35.078″W 656.88 314.206 12.0 8132.71 90.745 314.206 7753.92 656.88 458.00 -470.88 646474.28 438950.57 32°12′12.1259″N 103°51′35.078″W 666.17 314.206 12.0 8122.00† 90.745 314.206 7753.92 656.88 458.00 -470.88 646410.28 43900.00 32°12′12.1252″N 103°51′35.078″W 666.17 314.206 12.0 822.00† 90.745 314.206 7753.92 656.88 458.00 -470.88 646474.28 438950.47 32°12′12.1252″N 103°51′35.078″W 746.16 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 43900.00 32°12′12.055″N 103°51′35.0673″W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 43900.00 32°12′12.055″N 103°51′35.0673″W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 43900.00 32°12′12.055″N 103°51′35.0673″W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 43900.00 32°12′12.05	7222.00†	5.460	314.206	7221.93	2.17	1.51	-1.55	646943.57	438501.58	32°12 <u>'</u> 16.795"N	103°51'29.728"W	2.17	314.206	12:00
7522.00† 41.460 314.206 7492.63 119.64 83.42 -85.77 646859.36 438583.48 32°12'17.610"N 103°51'30.704"W 119.64 314.206 12.0 7622.00† 53.460 314.206 7560.12 193.19 134.70 -138.49 646806.64 438634.76 32°12'18.119"N 103°51'31.315"W 193.19 314.206 12.0 766.50 60.000 314.206 7590.00 238.73 166.45 -171.13 646774.00 438666.51 32°12'18.405"N 103°51'31.315"W 238.73 314.206 12.0 7722.00† 60.000 314.206 7612.75 278.14 193.93 -199.38 646745.76 438693.98 32°12'18.708"N 103°51'32.020"W 278.14 314.206 0.0 7822.00† 60.000 314.206 7662.75 364.74 254.31 -261.46 646683.68 438754.36 32°12'19.308"N 103°51'32.740"W 364.74 314.206 0.0 7876.50 60.000 314.206 7690.00 411.94 287.22 -295.29 646649.85 438787.27 32°12'19.635"N 103°51'33.132"W 411.94 314.206 0.0 7922.00† 65.460 314.206 7710.84 452.37 315.41 -324.27 646620.87 438815.45 32°12'19.916"N 103°51'33.468"W 452.37 314.206 12.0 8822.00† 89.460 314.206 7753.94 646.17 450.53 -463.20 646481.95 438950.57 32°12'12.259"N 103°51'35.078"W 646.17 314.206 12.0 8132.71 90.745 314.206 7753.92 656.88 458.00 -470.88 646474.28 438958.04 32°12'12.333"N 103°51'35.078"W 646.17 314.206 12.0 8322.00† 90.745 314.206 7753.46 846.15 589.97 -606.56 64633.61 43909.00 32°12'2.645"N 103°51'35.673"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 43909.00 32°12'2.645"N 103°51'35.673"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 43909.00 32°12'2.645"N 103°51'35.673"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 43909.00 32°12'2.645"N 103°51'35.673"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 43909.00 32°12'2.645"N 103°51'35.73"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 43909.00 32°12'2.645"N 103°51'35.673"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 43909.00 32°12'2.645"N 103°51'35.73"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 43909.00 32°12'2.645"N	7322.00†	17.460	314.206	7319.76	22 00	15.34	-15.77	646929.35	438515.41	32°12'16.933"N	103°51'29.893"W	22.00	314.206	12 00
7622.00† 53.460 314.206 7560.12 193.19 134.70 -138.49 646806.64 438634.76 32°12'18.119"N 103°51'31.315"W 193.19 314.206 12.0 7676.501 60.000 314.206 7590.00 238.73 166.45 -171.13 646774.00 438666.51 32°12'18.435"N 103°51'31.693"W 238.73 314.206 12.0 7722.00† 60.000 314.206 7612.75 278.14 193.93 -199.38 646745.76 438693.98 32°12'18.708"N 103°51'32.020"W 278.14 314.206 0.0 7822.00† 60.000 314.206 7662.75 364.74 254.31 -261.46 646683.68 438754.36 32°12'19.308"N 103°51'32.740"W 364.74 314.206 0.0 7876.50 60.000 314.206 7690.00 411.94 287.22 -295.29 646649.85 438787.27 32°12'19.635"N 103°51'33.132"W 411.94 314.206 0.0 7922.00† 65.460 314.206 7710.84 452.37 315.41 -324.27 646620.87 438815.45 32°12'19.916"N 103°51'33.468"W 452.37 314.206 12.0 8122.00† 89.460 314.206 7753.94 646.17 450.53 -463.20 646481.95 438950.57 32°12'12.59"N 103°51'35.078"W 646.17 314.206 12.0 8132.71 90.745 314.206 7753.92 656.88 458.00 -470.88 646474.28 438958.04 32°12'13.33"N 103°51'35.908"W 746.16 314.206 0.0 8222.00† 90.745 314.206 7752.76 746.16 520.25 -534.88 646410.28 439020.29 32°12'12.645"N 103°51'35.073"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 646338.61 439090.00 32°12'2.645"N 103°51'35.739"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 646338.61 439090.00 32°12'2.645"N 103°51'35.739"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 646338.61 439090.00 32°12'2.645"N 103°51'35.739"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 646338.61 439090.00 32°12'2.645"N 103°51'35.739"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15	7422.00†	29.460	314.206	7411.32	·61.74	43.05	-44.26	646900.87	438543.11	32°12'17.208"N	103°51'30.223"W	61.74	314.206	12.00
7676:50 60:000 314:206 7590:00 238:73 166:45 ≈171:13 646774:00 438666:51 32°12'18:435"N 103°51'32.020"W 238:73 314:206 12:0 7722.00† 60:000 314:206 7612.75 278.14 193:93 -199:38 646745.76 438693.98 32°12'18:708"N 103°51'32.020"W 278.14 314:206 0.0 7822:00† 60:000 314:206 7662.75 364.74 254.31 -261.46 646683.68 438754.36 32°12'19.308"N 103°51'32.740"W 364.74 314:206 0.0 7876:50 60:000 314:206 7690.00 411.94 287.22 -295.29 646649.85 438787.27 32°12'19.635"N 103°51'33.132"W 411.94 314:206 0.0 7922.00† 65:460 314:206 7710.84 452:37 315.41 -324.27 646620.87 438815.45 32°12'19.916"N 103°51'33.468"W 452.37 314:206 12.0 8122.00† 89 460 314.206 7753.94 646.17	7522.00†	41.460	314.206	7492.63	119.64	83.42	-85.77	646859.36	438583.48	32°12'17.610"N	103°51'30.704"W	119.64	314.206	12.00
7722.00† 60.000 314.206 7612.75 278.14 193.93 -199.38 646745.76 438693.98 32°12'18.708"N 103°51'32.020"W 278.14 314.206 0.0 7822.00† 60.000 314.206 7662.75 364.74 254.31 -261.46 646683.68 438754.36 32°12'19.308"N 103°51'32.740"W 364.74 314.206 0.0 7876.50 60.000 314.206 7690.00 411.94 287.22 -295.29 646649.85 438787.27 32°12'19.635"N 103°51'33.132"W 411.94 314.206 0.0 7922.00† 65.460 314.206 7710.84 452.37 315.41 -324.27 646620.87 438815.45 32°12'19.916"N 103°51'33.468"W 452.37 314.206 314.206 7742.57 547.00 381°39 392101 646553'03 43888143 32°12'20.572"N 103°51'35.078"W 547.00 314.206 12.0 8122.00† 89.460 314.206 7753.94 646.17 450.53 -463.20 646481.95 438950.57 32°12'12.59"N 103°51'35.167"W 646.17 314.206 12.0 8132.71 90.745 314.206 7753.92 656.88 458.00 -470.88 646474.28 438958.04 32°12'21.333"N 103°51'35.908"W 746.16 314.206 0.0 8222.00† 90.745 314.206 7752.76 746.16 520.25 -534.88 646410.28 439020.29 32°12'12.52"N 103°51'35.073"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 439090.00 32°12'22.645"N 103°51'35.739"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 439090.00 32°12'22.645"N 103°51'35.739"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 439090.00 32°12'22.645"N 103°51'35.739"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 439090.00 32°12'22.645"N 103°51'35.739"W 846.15 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 64633.61 439090.00 32°12'22.645"N 103°51'35.739"W 846.15 314.206 0.0	7622.00†	53.460	314.206	7560.12	193.19	134.70	-138.49	646806.64	438634.76	32°12'18.119"N	103°51'31.315"W	193.19	314 206	12.00
7822 00† 60.000 314.206 7662 75 364.74 254.31 -261.46 646683.68 438754.36 32°12'19.308"N 103°51'32.740"W 364.74 314 206 0.0 7876 50 60.000 314.206 7690.00 411.94 287.22 -295.29 646649.85 438787.27 32°12'19.635"N 103°51'33.132"W 411.94 314 206 0.0 7922.00† 65.460 314.206 7710.84 452 37 315.41 -324.27 646620.87 438815.45 32°12'19.916"N 103°51'33.468"W 452.37 314.206 12.0 *8022:00† 777.460 314.206 7742.57 547.00 381*39 -392!11* 646553'03* 438881*43 32°12'19.916"N 103°51'34.254"W 547.00 314.206 12.0 8122.00† 89 460 314.206 7753.94 646.17 450.53 -463.20 646481.95 438950.57 32°12'12.59"N 103°51'35.078"W 646.17 314.206 12.0 8132.71 90.745 314.206 7753.92 656.88	7676.50	60.000	314.206	7590.00	238.73	166.45	171.13	646774.00	438666.51	32°12'18'435"N	103°51'31.693"W	238.73	314.206	12.00
7876 50 60.000 314.206 7690.00 411.94 287.22 -295.29 646649.85 438787.27 32°12′19.635″N 103°51′33.132″W 411.94 314.206 0 0 7922.00† 65.460 314.206 7710.84 452.37 315.41 -324.27 646620.87 438815.45 32°12′19.916″N 103°51′33.468″W 452.37 314.206 12.0 8022′00† 777/460 314.206 77742′57 547/00 381′39 -392′11 646553′03 438881′43 32°12′20.572″N 103°51′34.254″W 547/00 31/4.206 12.0 8122.00† 89.460 314.206 7753.94 646.17 450.53 -463.20 646481.95 438950.57 32°12′21.259″N 103°51′35.078″W 646.17 314.206 12.0 8132.71 90.745 314.206 7753.92 656.88 458.00 -470.88 646474.28 438958.04 32°12′21.33″N 103°51′35.908″W 746.16 314.206 12.0 8222.00† 90.745 314.206 7751.46 846.15	7722.00†	60.000	314.206	7612.75	278.14	193.93	-199.38	646745.76	438693.98	32°12'18.708"N	103°51'32.020"W	278.14	314.206	0.00
7922.00† 65.460 314.206 7710.84 452.37 315.41 -324.27 646620.87 438815.45 32°12'19.916"N 103°51'33.468"W 452.37 314.206 12.0	7822 00†	60.000	314.206	7662 75	364.74	254.31	-261.46	646683.68	438754.36	32°12'19.308"N	103°51'32.740"W	364.74	314 206	0.00
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	7876 50	60.000	314.206	7690.00	411.94	287.22	-295.29	646649.85	438787.27	32°12'19.635"N	103°51'33.132"W	411.94	314 206	0 00
8122.00† 89 460 314.206 7753.94 646.17 450.53 -463.20 646481.95 438950.57 32°12'21.259"N 103°51'35.078"W 646.17 314.206 12.0 8132 71 90.745 314.206 7753.92 656.88 458.00 -470.88 646474.28 438958.04 32°12'21.333"N 103°51'35.167"W 656.88 314.206 12.0 8222.00† 90.745 314.206 7752.76 746.16 520.25 -534.88 646410.28 439020.29 32°12'21.952"N 103°51'35.908"W 746.16 314.206 0.0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 646338.61 439090.00 32°12'22.645"N 103°51'36.739"W 846.15 314.206 0.0	7922.00†	65.460	314.206	7710.84	452 37	315.41	-324.27	646620.87	438815.45	32°12'19.916"N	103°51'33 468"W	452.37	314.206	12.00
8132 71 90.745 314.206 7753.92 656.88 458.00 -470.88 646474.28 438958.04 32°12'21.333"N 103°51'35.167"W 656.88 314.206 12 0 8222.00† 90.745 314.206 7752.76 746.16 520.25 -534.88 646410.28 439020.29 32°12'21.952"N 103°51'35.908"W 746.16 314.206 0 0 8322.00† 90.745 314.206 7751.46 846.15 589.97 -606.56 646338.61 439090.00 32°12'22.645"N 103°51'36.739"W 846.15 314.206 0.0	8022:001	77.460	314.206	7742.57	547.00	381.39	392.11	646553.03	438881.43	32°12'20.572"Ni	103°51'34'.254"W	547.00	314.206	12:00
8222.00† 90.745 314.206 7752.76 746.16 520.25 -534.88 646410.28 439020.29 32°12'21.952"N 103°51'35.908"W 746.16 314.206 0.0	8122.00†	89 460	314.206	7753.94	646.17	450.53	-463.20	646481.95	438950.57	32°12'21.259"N	103°51'35.078"W	646.17	314.206	12.00
8322.00† 90.745 314 206 7751.46 846.15 589.97 -606.56 646338.61 439090.00 32°12'22.645"N 103°51'36.739"W 846.15 314.206 0.0	8132 71	90.745	314.206	7753.92	656.88	458.00	-470.88	646474.28	438958.04	32°12'21.333"N	103°51'35.167"W	656.88	314.206	12 00
	8222.00†	90.745	314.206	7752.76	746.16	520.25	-534.88	646410.28	439020.29	32°12'21.952"N	103°51'35.908"W	746.16	314 206	0 00
8422.00f - 90.745 314.206 - 7750 161 946 151 659 691 678 23 646266 93 430159 745 32° 1223 338 338 30° 1223 30° 1223 30° 12	8322.00†	90.745	314 206	7751.46	846.15	589.97	-606.56	646338.61	439090.00	32°12'22.645"N	103°51'36.739"W	846.15	314.206	0.00
27-07-12.00 123-70-7-13-7-30-7-30-7-30-7-30-7-30-7-30-	8422.00†	4:::90.745	314.206	27750.16 ₂	946.15	659/69	-678.234	646266.93	439159.71	- 12'23.338"N	103°51'37.569"W	946.15	314.206	0.00



Planned Wellpath Report Rev-B.0 Page 5 of 8



ROMARRES	YGE WEDEPARKIDENDIDGATION		
Operator	BOPCO, L.P.	Slot	No. 324H SHL
Area	Eddy County, NM	Well	No. 324H
Field	Poker Lake Unit	Wellbore	No. 324H PWB
Facility	Poker Lake Unit No. 324H		

WELLPAT	H DATA (167 static	ons) †=	interpola	ted/extra	polated st	ation			A CONTRACTOR OF THE PROPERTY O			
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]
8522.00†	90.745	314.206	7748.86	1046.14	729.41	-749.91	646195.26	439229.43	32°12'24.031"N	103°51'38 400"W	1046 14	314.206	0.00
8622.00†	90.745	314.206	7747.56	1146.13	799.12	-821.59	646123.59	439299.14	32°12'24.724"N	103°51'39.231"W	1146,13	314.206	0.00
; 8722.00†	90.745	314.206	7746.26	1246.12	868.84	-893.27	646051.91	439368.85	32°12'25.417"N	103°51'40.061"W	1246.12	314.206	0.00
8822.00†	90.745	314.206	7744.96	1346.11	938.56	-964.95	645980.24	439438.57	32°12'26.110"N	103°51'40.892"W	1346.11	314.206	0.00
8922.00†	90.745	314.206	<i>₹7743.</i> 66 (1446.10	1008:28	-1036:62	645908.57	439508:28	32°12'26.803"N	103°51'41-723''W	1446.10	314.206	0.00
9022.00†	90.745	314.206	7742.36	1546.09	1078.00	-1108.30	645836.89	439577.99	32°12'27.496"N	103°51'42.553"W	1546.09	314.206	0 00
9122.00†	90.745	314.206	7741 06	1646.09	1147.71	-1179.98	645765.22	439647.71	32°12'28.189"N	103°51'43.384"W	1646.09	314.206	0.00
9222.00†	90.745	314.206	7739.76	1746.08	1217.43	-1251.66	645693.55	439717.42	32°12'28.882"N	103°51'44.215"W	1746.08	314.206	0.00
9322.00†	90.745	314.206	7738.46	1846.07	1287.15	-1323.34	645621.88	439787.13	32°12'29.575"N	103°51'45.045"W	1846.07	314.206	0.00
9422.001		314.206	< 7737.16	1946.06	1356:87	1395.01	£ 645550:20	439856.84	32°12'30.268"N	103°51'45.876"W	1946:06	-314.206	0:00
9522.00†	90.745	314.206	7735.86	2046.05	1426.59	-1466.69	645478.53	439926.56	32°12'30.961"N	103°51'46.707"W	2046.05	314.206	0.00
9622.00†	90 745	314.206	7734.56	2146.04	1496.30	-1538.37	645406.86	439996.27	32°12'31.654"N	103°51'47.537"W	2146.04	314.206	0.00
9722.00†	90.745	314.206	7733 26	2246.04	1566.02	-1610.05	645335.18	440065.98	32°12'32.347"N	103°51'48.368"W	2246.04	314.206	0.00
9822 00†	90.745	314.206	7731 96	2346.03	1635.74	-1681.73	645263.51	440135.70	32°12'33.040"N	103°51'49.199"W	2346.03	314.206	0 00
9922:00†	90.745	314.206	<i>₹7,</i> 730:66,	2446:02	1705.46	£ -1753.40	645191.84	440205.41	32°12'33.733'N	\$\$\int_1\03°51\50.029\\\	2446:02	314.206	0.00
10022.00†	90 745	314.206	7729 36	2546 01	1775.17	-1825.08	645120.16	440275.12	32°12'34.426"N	103°51'50.860"W	2546.01	314 206	0.00
10122 00†	90.745	314.206	7728 06	2646.00	1844.89	-1896.76	645048.49	440344.84	32°12'35.119"N	103°51'51.691"W	2646.00	314.206	0.00
10222.00†	90.745	314.206	7726.76	2745.99	1914.61	-1968.44	644976.82	440414.55	32°12'35.812"N	103°51'52.521"W	2745.99	314.206	0.00
10322.00†	90 745	314.206	7725 46	2845.98	1984.33	-2040.12	644905.14	440484.26	32°12'36.505"N	103°51'53.352"W	2845.98	314 206	0 00
10422.00†	90.745	314.206	7724.16	2945.98	2054:05	-2111.79	644833.47	440553.98	32°12'37:198"N	103°51'54:183"W	2945.98	314.206	0.00
10522 00†	90.745	314.206	7722 87	3045.97	2123 76	-2183 47	644761 80	440623 69	32°12'37.891"N	103°51'55.013"W	3045.97	314.206	0.00
10622.00†	90.745	314.206	7721.57	3145.96	2193.48	-2255.15	644690.13	440693.40	32°12'38.584"N	103°51'55.844"W	3145.96	314 206	0.00
10722 00†	90.745	314.206	7720.27	3245.95	2263 20	-2326.83	644618.45	440763.12	32°12'39.277"N	103°51'56.675"W	3245.95	314.206	0.00
10822 00†	90 745	314.206	7718 97	3345.94	2332.92	-2398.51	644546.78	440832.83	32°12'39.970"N	103°51'57.505''W	3345.94	314.206	0 00
₹:10922.00†	90:745	314:206	.7717:67	3445:93	2402.64	-2470:18#	644475.11	440902:54	32°12'40.663"N	~~103°51'58.336";W	3445.93	314:206	0.00
11022.00†	90.745	314.206	7716 37	3545 93	2472.35	-2541 86	644403.43	440972.25	32°12'41.356"N	103°51'59.167"W	3545.93	314.206	0.00
11122.00†	90 745	314.206	7715 07	3645 92	2542 07	-2613 54	644331.76	441041.97	32°12'42.049"N	103°52'00.000"W	3645.92	· 314 206	0.00
11222.00†	90 745	314.206	7713.77	3745.91	2611.79	-2685.22	644260.09	441111.68	32°12'42.741"N	103°52'00.828"W	3745.91	314.206	0.00
11322.00†	90.745	314 206	7712.47	3845.90	2681.51	-2756.89	644188.41	441181.39	32°12'43.434"N	103°52'01.659"W	3845.90	314.206	0.00
21.1422.00ti	90.745	314.206	<i>7</i> 711.17	3945.89	2751:23	2828:57	- 644116.74	441251-11	\$\$\frac{12}{44.127}\text{"N}	ች 103°52'02.490"W.	3945:89	314.206	0.00



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radinbrio	NCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No. 324H SHL
Area	Eddy County, NM	Well	No. 324H
Field	Poker Lake Unit	Wellbore	No. 324H PWB
Facility	Poker Lake Unit No. 324H		

WELLPAT	H DATA (167 statio	ns) †=	interpola	ited/extra	polated st	ation			,			
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]
11522.00†	90.745		7709.87	4045.88	2820.94	-2900.25	644045.07	441320.82	32°12'44.820"N	103°52'03.320"W	4045.88	314.206	0 00
11622 00†	90.745		7708 57	4145.87	2890.66	-2971.93	643973.40	441390.53	32°12'45.513"N	103°52'04.151"W	4145 87	314.206	0 00
11722.00†	90.745	314.206	7707.27	4245.87	2960.38	-3043.61	643901.72	441460.25	32°12'46.206"N	103°52'04.982"W	4245.87	314.206	0.00
11822 00†;	90.745	314.206	7705.97	4345.86	3030.10	-3115.28	643830.05	441529.96	32°12'46.899"N	103°52'05.813"W	4345.86	314.206	0.00
11922.00†	90.745	314.206	7704.67	4445.85	3099.81	-3186.96	643758:38	441599.67	32°12'47.592"N	103°52'06.643"W	4445.85	314.206	0.00
12022.00†	90 745	314.206	7703.37	4545.84	3169.53	-3258.64	643686.70	441669.39	32°12'48.285"N	103°52'07.474"W	4545.84	314.206	0.00
12122.00†	90 745	314.206	7702 07	4645.83	3239.25	-3330.32	643615.03	441739.10	32°12'48.978"N	103°52'08.305"W	4645 83	314.206	0 00
12222.00†1	90.745	314 206	7700 77	4745.82	3308.97	-3402.00	643543.36	441808.81	32°12'49.671"N	103°52'09.136"W	4745.82	314 206	0 00
12322 00†	90.745	314.206	7699 47	4845.82	3378.69	-3473.67	643471.68	441878.53	32°12'50.364"N	103°52'09.966"W	4845.82	314.206	0.00
12422.00	90.745	314.206	7698.17	~;4945.81 <u>}</u>	3448:40	-3545.35	643400.01	<u>441948:24</u>	32°12'51-057"N	103°52'10.797"W	4945.81	314.206	0:00
12522 00†	90 745	314.206	7696 87	5045.80	3518.12	-3617.03	643328.34	442017.95	32°12'51.750"N	103°52'11.628"W	5045.80	314.206	0.00
12622 00†	90.745	314.206	7695 57	5145.79	3587.84	-3688.71	643256.66	442087.67	32°12'52.443"N	103°52'12.459"W	5145.79	314.206	0.00
12722.00†	90.745	314.206	7694.27	5245.78	3657 56	-3760.39	643184.99	442157.38	32°12'53.136"N	103°52'13.289"W	5245.78	314.206	0.00
12822.00†	90.745	314.206	7692 97	5345.77	3727.28	-3832.06	643113.32	442227.09	32°12'53.829"N	103°52'14.120"W	5345.77	314.206	0.00
12922.001	90:745	314.206	7691.67	5445.7.7	3796.99	-3903.74	643041-65	442296.80	32°12'54.522 <u>"</u> N		. 5445.77	314.206	0.00
13022.00†	90.745	314.206	7690 37	5545.76	3866.71	-3975.42	642969.97	442366.52	32°12'55.215"N	103°52'15.782"W	5545.76	314.206	0.00
13122 00†	90.745	314 206	7689 07	5645.75	3936.43	-4047.10	642898.30	442436.23	32°12'55.908"N	103°52'16.613"W	5645.75	314.206	0.00
13222.00†	90.745	314.206	7687 77	5745.74	4006.15	-4118.78	642826.63	442505.94	32°12'56.600"N	103°52'17.443"W	5745.74	314.206	0.00
13322 00†	90.745	314.206	7686.47	5845.73	4075.86	-4190.45	642754.95	442575.66	32°12'57.293"N	103°52'18.274"W	5845.73	314 206	0 00
-13422.00†	90!745	314.206	7685:17	\$ 5945.72	4145.58	4262.13	642683:28	442645.37	32°12'57.986"N	103°52'19.105"W	5945.72	314.206	₩ 0.00
13522.00†	90.745	314.206	7683.87	6045.71	4215.30	-4333.81	642611.61	442715.08	32°12'58.679"N	103°52'19.936"W	6045.71	314.206	0.00
13622.00†	90.745	314.206	7682.57	6145.71	4285 02	-4405.49	642539.93	442784.80	32°12'59.372"N	103°52'20.767"W	6145 71	314.206	0.00
13722.00†	90.745	314.206	7681.27	6245.70	4354.74	-4477.17	642468.26	442854.51	32°13'00.065"N	103°52'21.597"W	6245.70	314.206	0 00
13822 00†	90.745	314.206	7679.97	6345.69	4424.45	-4548 84	642396.59	442924.22	32°13'00.758"N	103°52'22.428"W	6345.69	314.206	0.00
13922.00†	90.745	314.206	7678.67	6445.68	4494.17	4620.52	642324.92	442993.94	32°13'01.451"N	:∞103°52'23.259"W(</td <td>6445.68</td> <td>314.206</td> <td>- 30:00</td>	6445.68	314.206	- 30:00
14022 00†	90 745	314.206	7677.37	6545.67	4563 89	-4692.20	642253.24	443063.65	32°13'02.144"N	103°52'24.090"W	6545.67	314.206	0.00
14122.00†	90.745	314.206	7676.07	6645.66	4633.61	-4763.88	642181.57	443133.36	32°13'02.837"N	103°52'24.921"W	6645.66	314.206	0.00
14222 00†	90 745	314.206	7674.77	6745.66	4703.33	-4835.55	642109.90	443203.08	32°13'03.530"N	103°52'25.751"W	6745.66	314.206	0.00
14322.00†	90.745	314.206	7673.47	6845.65	4773.04	-4907.23	642038.22	443272.79	32°13'04.223"N	103°52'26.582"W	6845.65	314.206	·
14422 001	90.745	314.206	7672.17	6945.64	4842.76	4978.91	641966.55	443342.50	32°13'04.916''N	103°52'27.413"W	6945.64	314:206	0.00



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REMINDER	NGE WELLPATH IDENTIFICATION:		
Operator	BOPCO, L.P.	Slot	No. 324H SHL
Area	Eddy County, NM	Well	No. 324H
Field	Poker Lake Unit	Wellbore	No. 324H PWB
Facility	Poker Lake Unit No. 324H		

WELLPAT	H DATA (167 static	ons) †=	interpola	ted/extra	polated st	ation		paga anga angangan kini an ini ini ini ini ini ini ini ini i	ada abbane bark disayany sarary, ayan targan usuni salah (abbane usuni salah	Control and the first of the same state of the s	A suppression of a suppression of about and	
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
14522.00†	90.745	314.206	7670.87	7045.63	4912 48	-5050.59	641894.88	443412,21	32°13'05.609"N	103°52'28.244"W	7045.63	314.206	0.00
14622.00†	90.745	314 206	7669.57	7145.62	4982.20	-5122.27	641823.20	443481.93	32°13'06.301"N	103°52'29.075"W	7145.62	314.206	0.00
14722.00†	90.745	314 206	7668.27	7245.61	5051.92	-5193.94	641751.53	443551.64	32°13'06.994"N	103°52'29.906"W	7245.61	314.206	0.00
14822.00†	90 745	314.206	7666.97	7345.60	5121.63	-5265.62	641679.86	443621.35	32°13'07.687"N	103°52'30.736"W	7345.60	314.206	0.00
14922.00	90.745	314.206	7665.67	7445:60	5191.35	-5337.30	641608.18	443691:07	::√-32°13'08\380"N"	- 103°52'31-567"W	7445.60	314.206	0.00
15022.00†	90.745	314.206	7664.37	7545.59	5261.07	-5408.98	641536.51	443760.78	32°13'09.073"N	103°52'32 398"W	7545.59	314.206	0.00
15122 00†	90.745	314.206	7663.07	7645 58	5330.79	-5480.66	641464.84	443830.49	32°13'09.766"N	103°52'33.229"W	7645.58	314.206	0.00
15222 00†	90.745	314.206	7661.77	7745.57	5400.50	-5552.33	641393.17	443900.21	32°13'10.459"N	103°52'34.060"W	7745.57	314.206	0.00
15322.00†	90.745	314.206	7660.47	7845.56	5470.22	-5624.01	641321.49	443969.92	32°13'11.152"N	103°52'34.891"W	7845.56	314.206	0.00
15422.00†	90.745	314.206	7659.17	* 7945.55 [!]	5539.94	-5695.69	:: 641249.82	* 444039.63°	32°13'11.845"N	103°52'35.722"W	7945.55	314.206	2.0.00°
15522.00†	90 745	314.206	7657.87	8045.55	5609.66	-5767.37	641178.15	444109.35	32°13'12.538"N	103°52'36.553"W	8045 55	314.206	0.00
15622.00†	90.745	314.206	7656.57	8145.54	5679.38	-5839.05	641106.47	444179.06	32°13'13.230"N	103°52'37.383"W	8145.54	314.206	0.00
15722.00†	90.745	314.206	7655.27	8245.53	5749.09	-5910.72	641034.80	444248.77	32°13'13.923"N	103°52'38.214"W	8245.53	314.206	0.00
15822.00†	90.745	314.206	7653.97	8345.52	5818.81	-5982.40	640963.13	444318.49	32°13'14.616"N	103°52'39.045"W	8345.52	314.206	0.00
15922.00	90.745	314 206	7652:67	8445.51	₹5888.53¶	-6054.08	640891.45	444388.20	32°13'15.309"N	103°52'39.876"W	8445.51	314:206	0.00
16022 00†	90.745	314.206	7651.37	8545.50	5958.25	-6125.76	640819.78	444457.91	32°13'16.002"N	103°52'40.707"W	8545.50	314.206	0.00
16050.31	90.745	314.206	7651.00 ¹	8573.82	i	-6146:05	640799.49	444477.65	14: 32°13'16:198"N	:=\\$\\\\103\\$52\40.942\\\	8573.82	314.206	0.00



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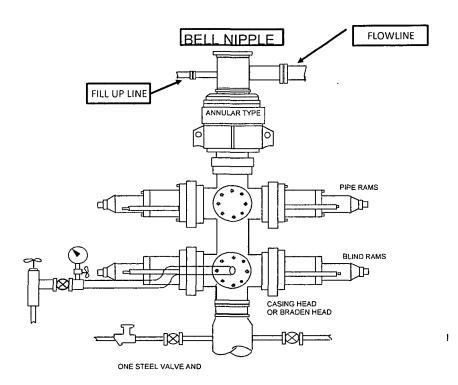


Remotes	NGB WEILLFAUHLIDENTUFT (CATHON)		
Operator	BOPCO, L.P.	Slot	No. 324H SHL
Area	Eddy County, NM	Well	No. 324H
Field	Poker Lake Unit	Wellbore	No. 324H PWB
Facility	Poker Lake Unit No. 324H	AND THE PERSON NAMED IN COLUMN	

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Poker Lake Unit No. 324H (Rev-0)	16050.31	7651.00	5977.99	<u>-6146.05</u>	640799:49	444477.65	출출: 32°13'16'198"N	### 103°52'40'942''W	point
Target No. 1		7756.00	331.89	-341.21	646603.93	438831.93	32°12'20.079"N	103°51'33.664"W	point

SURVEY PROGRAM -	URVEY PROGRAM - Ref Wellbore: No. 324H PWB Ref Wellpath: Rev-B.0										
Start MD I	End MD	Positional Uncertainty Model	Log Name/Comment	Wellbore							
[ft]	[ft]	•									
22.00	16125.77 NaviTrak (Standard)		No. 324H PWB							

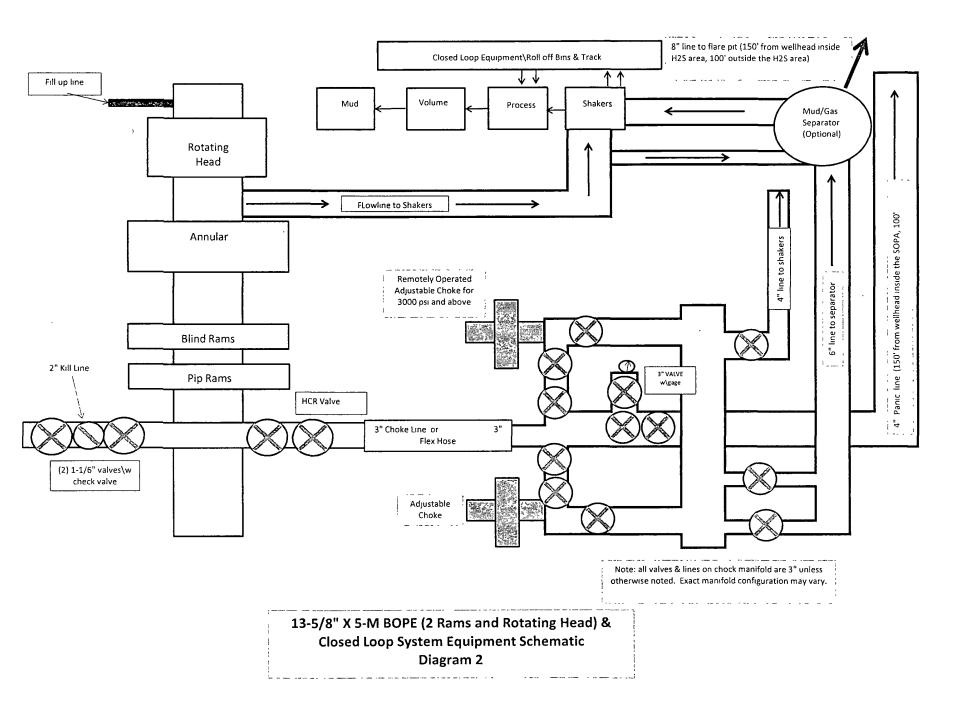
BOPCO, L. P. 13 5/8" X 5-M WP BOPE WITH 5-M WP ANNULAR



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



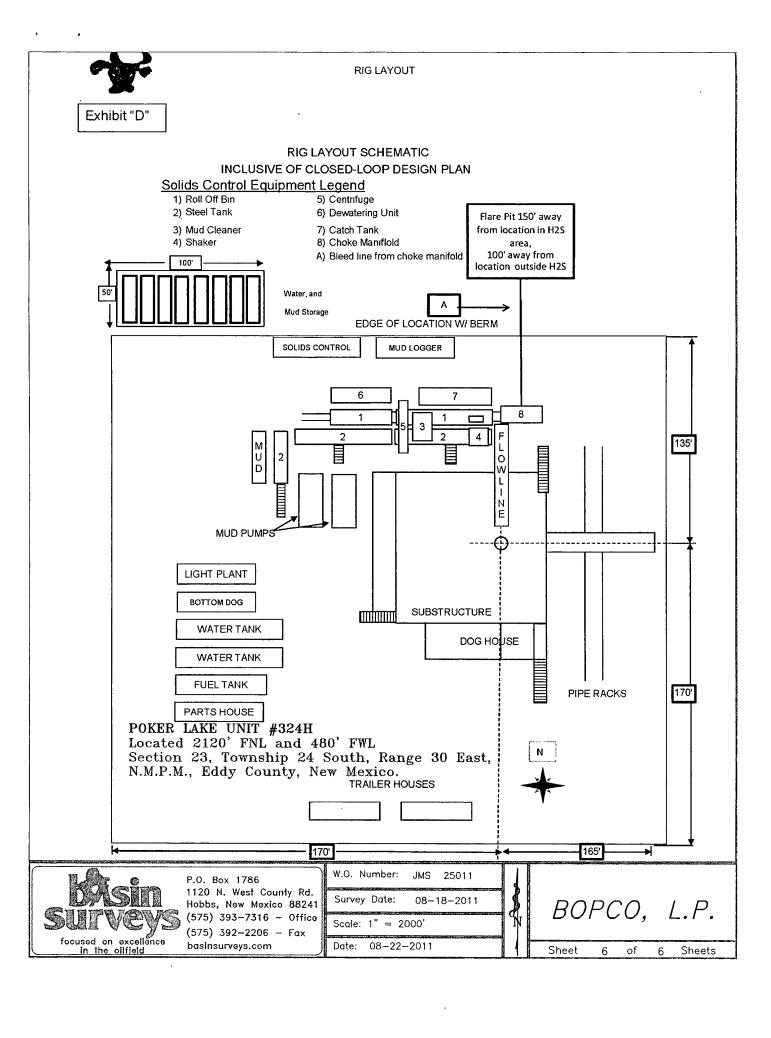


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- B. Objective
- C. Discussion of Plan

II. Emergency Procedures

- A. Emergency Procedures and Public Protection
- B. Emergency Procedures Implementation
- C. Simulated Blowout Control Drills

III. Ignition Procedures

- A. Responsibility
- B. Instructions

IV. Training Requirements

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VI. Evacuation Plan

- A. General Plan
- B. Emergency Phone Lists

VII. General Information

- A. H₂S Toxicity Table
- B. Respirator Use
- C. Emergency Rescue

H₂S CONTINGENCY PLAN SECTION

Scope:

This contingency plan provides an organized plan of action for alerting and protecting the public within an area of exposure prior to an intentional release, or following the accidental release of a potentially hazardous volume of hydrogen sulfide. The plan establishes guidelines for all personnel whose work activity may involve exposure to Hydrogen Sulfide Gas (H₂S).

Objective:

Prevent any and all accidents, and prevent the uncontrolled release of H₂S into the atmosphere.

Provide proper evacuation procedures to cope with emergencies.

Provide immediate and adequate medical attention should an injury occur.

Discussion of Plan:

Suspected Problem Zones:

Implementation: This plan, with all details, is to be fully implemented 500' above or three days prior to drilling into the first known sour zone

Emergency Response and Public Protection Procedure: This section outlines the conditions and denotes steps to be taken in the event of an emergency.

Emergency Equipment and Procedure: This section outlines the safety and emergency equipment that will be required for the drilling of this well.

Training Provisions: This section outlines the training provisions that must be adhered to 500 feet above or three days prior to drilling into the first known sour zone.

Emergency call lists: Included are the telephone numbers of all persons that would need to be contacted should an H₂S emergency occur.

Briefing: This section deals with the briefing of all persons involved with the drilling of this well.

Public Safety: Public Safety Personnel will be made aware of the drilling of this well.

EMERGENCY PROCEDURES AND PUBLIC PROTECTION SECTION

- I. In the event of any evidence of H₂S levels above 10 ppm, take the following steps immediately:
 - A. Secure breathing apparatus.
 - B. Order non-essential personnel out of the danger zone.
 - C. Take steps to determine if the H₂S level can be corrected or suppressed, and if so, proceed with normal operations.
- II. If uncontrollable conditions occur, proceed with the following:
 - A. Take steps to protect and/or remove any public downwind of the rig, including partial evacuation or isolation. Notify necessary public safety personnel and the New Mexico Oil & Gas of the situation.
 - B. Isolate area and prevent entry by unauthorized persons into the 100 ppm ROE.
 - C. Remove all personnel to the Safe Briefing Area.
 - D. Notify public safety personnel for help with maintaining roadblocks and implementing evacuation. Phone number list attached.
 - E. Determine and proceed with the best possible plan to regain control of the well. Maintain tight security and safety measures.

III. Responsibility:

- A. The Company Approved Supervisor shall be responsible for the total implementation of the plan.
- B. The Company Approved Supervisor shall be in complete command during any emergency.
- C. The Company Approved Supervisor shall designate a back up Supervisor in the event that he/she is not available.

EMERGENCY PROCEDURE IMPLEMENTATION

I. Drilling or Tripping

A. All Personnel

- 1. When alarm sounds, don escape unit and report to upwind Safe Briefing Area.
- 2. Check status of other personnel (buddy system).
- 3. Secure breathing apparatus.
- 4. Wait for orders from supervisor.

B. Drilling Foreman

- 1. Report to the upwind Safe Briefing Area.
- 2. Don Breathing Apparatus and return to the point of release with the Tool Pusher or Driller (buddy system).
- 3. Determine the concentration of H₂S.
- 4. Assess the situation and take appropriate control measures.

C. Tool Pusher

- 1. Report to the upwind Safe Briefing Area.
- 2. Don breathing apparatus and return to the point of release with the Drilling Foreman or the Driller (buddy system).
- Determine the concentration.
- 4. Assess the situation and take appropriate control measures.

D. Driller

- 1. Check the status of other personnel (in a rescue attempt, always use the buddy system).
- 2. Assign the least essential person to notify the Drilling Foreman and Tool Pusher, in the event of their absence.

3. Assume the responsibility of the Drilling Foreman and the Tool Pusher until they arrive, in the event of their absence.

E. Derrick Man and Floor Hands

1. Remain in the upwind Safe Briefing Area until otherwise instructed by a supervisor.

F. Mud Engineer

- 1. Report to the upwind Safe Briefing Area.
- 2. When instructed, begin check of mud for pH level and H₂S level.

G. On-site Safety Personnel

- 1. Don Breathing Apparatus.
- 2. Check status of all personnel.
- 3. Wait for instructions from Drilling Foreman or Tool Pusher.

II. Taking a Kick

- A. All personnel report to the upwind Safe Briefing Area.
- B. Follow standard BOP procedures.

III. Open Hole Logging

- A. All unnecessary personnel should leave the rig floor.
- B. Drilling Foreman and Safety Personnel should monitor the conditions and make necessary safety equipment recommendations.

IV. Running Casing or Plugging

- A. Follow "Drilling or Tripping" procedures.
- B. Assure that all personnel have access to protective equipment.

SIMULATED BLOWOUT CONTROL DRILLS

All drills will be initiated by activating alarm devices (air horn). Use one long blast on the air horn for ACTUAL and SIMULATED Blowout Control Drills. This operation will be performed by the Drilling Foreman or Tool Pusher at least one time per week for each of the following conditions, with each crew:

Drill # 1 Bottom Drilling

Drill # 2 Tripping Drill Pipe

In each of these drills, the initial reaction time to shutting in the well shall be timed as well as the total time for the crew to complete its entire pit drill assignment. The times must be recorded on the IADC Driller's Log as "Blowout Control Drill".

Drill No.:

Reaction Time to Shut-In:
Total Time to Complete Assignment:

minutes, minutes,

seconds.

I. Drill Overviews

- A. Drill No. 1- Bottom Drilling
 - 1. Sound the alarm immediately.
 - 2. Stop the rotary and hoist kelly joint above the rotary table.
 - 3. Stop the circulatory pump.
 - 4. Close the drill pipe rams.
 - 5. Record casing and drill pipe shut-in pressures and pit volume increases.
- B. Drill No. 2 Tripping Drill Pipe
 - 1. Sound the alarm immediately.
 - 2. Position the upper tool joint just above the rotary table and set the slips.

- 3. Install a full opening valve or inside blowout preventor tool in order to close the drill pipe.
- 4. Close the drill pipe rams.
- 5. Record the shut-in annular pressure.

II. Crew Assignments

A. Drill No. 1 - Bottom Drilling

1. Driller

- a) Stop the rotary and hoist kelly joint above the rotary table.
- b) Stop the circulatory pump.
- c) Check flow.
- d) If flowing, sound the alarm immediately.
- e) Record the shut-in drill pipe pressure.
- f) Determine the mud weight increase needed or other courses of action.

2. Derrickman

- a) Open choke line valve at BOP.
- b) Signal Floor Man # 1 at accumulator that choke line is open.
- c) Close choke and upstream valve after pipe tams have been closed.
- d) Read the shut-in annular pressure and report readings to Driller.

3. Floor Man # 1

- a) Close the pipe rams after receiving the signal from the Derrickman.
- b) Report to Driller for further instructions.

4. Floor Man # 2

- a) Notify the Tool Pusher and Operator Representative of the H₂S alarms.
- b) Check for open fires and, if safe to do so, extinguish them.
- c) Stop all welding operations.
- d) Turn-off all non-explosion proof lights and instruments.
- e) Report to Driller for further instructions.

5. Tool Pusher

- a) Report to the rig floor.
- b) Have a meeting with all crews.
- c) Compile and summarize all information.
- d) Calculate the proper kill weight.
- e) Ensure that proper well procedures are put into action.

6. Operator Representative

- a) Notify the Drilling Superintendent.
- b) Determine if an emergency exists and if so, activate the contingency plan.

B. Drill No. 2 - Tripping Pipe

1. Driller

- a) Sound the alarm immediately when mud volume increase has been detected.
- b) Position the upper tool joint just above the rotary table and set slips.
- c) Install a full opening valve or inside blowout preventor tool to close the drill pipe.
- d) Check flow.

- e) Record all data reported by the crew.
- f) Determine the course of action.

2. Derrickman

- a) Come down out of derrick.
- b) Notify Tool Pusher and Operator Representative.
- c) Check for open fires and, if safe to do so, extinguish them.
- d) Stop all welding operations.
- e) Report to Driller for further instructions.

3. Floor Man # 1

- a) Pick up full opening valve or inside blowout preventor tool and stab into tool joint above rotary table (with Floor Man # 2).
- b) Tighten valve with back-up tongs.
- c) Close pipe rams after signal from Floor Man # 2.
- d) Read accumulator pressure and check for possible high pressure fluid leaks in valves or piping.
- e) Report to Driller for further instructions.

4. Floor Man # 2

- a) Pick-up full opening valve or inside blowout preventor tool and stab into tool joint above rotary table (with Floor Man # 1).
- b) Position back-up tongs on drill pipe.
- c) Open choke line valve at BOP.
- d) Signal Floor Man # 1 at accumulator that choke line is open.
- e) Close choke and upstream valve after pipe rams have been closed.
- f) Check for leaks on BOP stack and choke manifold.

- g) Read annular pressure.
- h) Report readings to the Driller.

5. Tool Pusher

- a) Report to the rig floor.
- b) Have a meeting with all of the crews.
- c) Compile and summarize all information.
- d) See that proper well kill procedures are put into action.

6. Operator Representative

- a) Notify Drilling Superintendent
- b) Determine if an emergency exists, and if so, activate the contingency plan.

IGNITION PROCEDURES

Responsibility:

The decision to ignite the well is the responsibility of the DRILLING FOREMAN in concurrence with the STATE POLICE. The State Police shall be the Incident Command on the scene of any major release. Intentional ignition must be coordinated with the NMOCD and local officials. In the event the Drilling Foreman is incapacitated, it becomes the responsibility of the RIG TOOL PUSHER. This decision should be made only as a last resort and in a situation where it is clear that:

- 1. Human life and property are endangered.
- 2. There is no hope of controlling the blowout under the prevailing conditions.

If time permits, notify the main office, but do not delay if human life is in danger. Initiate the first phase of the evacuation plan.

Instructions for Igniting the Well:

- 1. Two people are required for the actual igniting operation. Both men must wear self-contained breathing apparatus and must use a full body harness and attach a retrievable safety line to the D-Ring in the back. One man must monitor the atmosphere for explosive gases with the LEL monitor, while the Drilling Foreman is responsible for igniting the well.
- 2. The primary method to ignite is a 25mm flare gun with a range of approximately 500 feet.
- 3. Ignite from upwind and do not approach any closer than is warranted.
- 4. Select the ignition site best suited for protection and which offers an easy escape route.
- 5. Before igniting, check for the presence of combustible gases.
- 6. After igniting, continue emergency actions and procedures as before.
- 7. All unassigned personnel will limit their actions to those directed by the Drilling Foreman.

NOTE: After the well is ignited, burning Hydrogen Sulfide will convert to Sulfur Dioxide (SO₂), which is also highly toxic. Do not assume the area is safe after the well is ignited.

TRAINING REQUIREMENTS

When working in an area where Hydrogen Sulfide (H₂S) might be encountered, definite training requirements must be carried out. The Company Supervisor will ensure that all personnel at the well site, whether regularly assigned, contracted, or employed on an unscheduled basis, have had adequate training by a qualified instructor in the following:

- 1. Hazards and Characteristics of Hydrogen Sulfide and Sulfur Dioxide.
- 2. Physicals effects of Hydrogen Sulfide on the human body.
- 3. Toxicity of Hydrogen Sulfide and Sulfur Dioxide.
- 4. H₂S detection, emergency alarm and sensor location.
- 5. Emergency rescue.
- 6. First aid and artificial resuscitation.
- 7. The effects of Hydrogen Sulfide on metals.
- 8. Location safety.

In addition, Supervisory Personnel will be trained in the following areas:

- 1. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well as blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Contingency Plan and the Public Protection Plan.

Service company personnel and visiting personnel must be notified if the zone contains H₂S, and each service company must provide adequate training and equipment for their employees before they arrive at the well site.

EMERGENCY EQUIPMENT

As stated in the BLM Onshore Order 6, for wells located in a known H₂S areas, H₂S equipment will be rigged up after setting surface casing. For wells located inside known H₂S areas, the flare pit will be located 150' from the location and for wells located outside known H₂S areas, the flare pit will be located 100' away from the location. (See page 6 of Survey plat package and diagram 2.)

It is not anticipated that any H_2S is in the area, however in the event that H_2S is encountered, the attached H_2S Contingency Plan will be implemented. (Please refer to diagram 2 for choke manifold and closed loop system layout.) See H_2S location layout diagram for location of all H_2S equipment on location.

All H₂S safety equipment and systems will be installed, tested and be operational when drilling reaches a depth of 500' above, or three days prior to penetrating a known formation containing H₂S.

Lease Entrance Sign:

Caution signs should be located at all roads providing direct access to the location. Signs shall have a yellow background with black lettering and contain the words "CAUTION" and "POISON GAS" that is legible from a distance of at least 50 feet.

LEASE NAME CAUTION – POTENTIAL POISON GAS HYDROGEN SULFIDE NO ADMITTANCE WITHOUT AUTHORIZATION

Windsocks or Wind Streamers:

- A minimum of two 10" windsocks located at strategic locations so that they
 may be seen from any point on location.
- Wind streamers (if preferred) should be placed at various locations on the well site to ensure wind consciousness at all times. (Corners of location)

Hydrogen Sulfide Detector and Alarms:

• H₂S monitors with alarms will be located on the rig floor, at the cellar, and at the mud pits. These monitors will be set to alarm at 10 PPM with a red light and to alarm at 15 PPM with a red light and audible alarm.

Well Condition Flags:

The Well Condition flags should be located at all roads providing direct access to the location. It should have three (3) color coded flags (green, yellow and red) that will be used to denote the following location conditions:

GREEN – Normal Operating Conditions YELLOW – Potential Danger RED – Danger, H₂S Gas Present

Respiratory Equipment:

- Fresh air breathing equipment should be placed at the company supervision trailer and the safe briefing areas and should include the following:
 - A minimum of two SCBA's at each briefing area and the supervisor company supervision trailer.
 - Enough air line units to operate safely, anytime the H₂S concentration reaches the IDLH level (100 PPM).
 - Cascade system with enough breathing air hose and manifolds to reach the rig floor, the derrickman and the other operation areas.

Fire Extinguishers:

Adequate fire extinguishers shall be located at strategic locations.

Mud Program:

The mud program has been designed to minimize the volume of H_2S circulated to the surface. Proper mud weight, safe drilling practices and the use of H_2S scavengers will minimize hazards when penetrating H_2S bearing zones.

Metallurgy:

All drill strings, casing, tubing, wellhead; blowout preventer, drilling spools, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.

Well Control Equipment:

- Flare Line (See diagram 2).
- Choke manifold (See diagram 2).
- Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing units.
- Auxiliary equipment may include, if applicable, annular preventer & rotating head.

Communication Equipment:

 Proper communication equipment such as cell phones or 2 – way radios should be available for communication between the company man's trailer, rig floor and tool pusher's trailer.

Well Testing:

• There will be no drill stem testing.

Evacuation Plan:

- Evacuation routes should be established prior to spudding the well.
- Should be discussed with all rig personnel.

Designated Areas:

Parking and Visitor area:

- All vehicles are to be parked at a pre-determined safe distance from the wellhead.
- A smoking area will be designated at a pre-determined safe distance from the wellhead and any other possible flammable areas.

Safe Briefing Areas:

 Two Safe Briefing Areas shall be designated on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds or they are at a 180 degree angle if wind directions tend to shift in the area. • Personal protective equipment should be stored at both briefing areas or if a moveable cascade trailer is used, it should be kept upwind of existing winds. When wind is from the prevailing direction, both briefing areas should be accessible.

NOTE:

• Additional equipment will be available at Indian Fire and Safety in Hobbs, NM or at Total Safety in Hobbs, NM.

EVACUATION PLAN

General Plan

The direct lines of action to protect the public from hazardous gas situations are as follows:

- 1. When the company approved supervisor (Drilling Foremen, Tool Pusher or Driller) determine that Hydrogen Sulfide gas cannot be limited to the well location, and the public will be involved, he will activate the evacuation plan. Escape routes are noted on the Area Map.
- 2. Company safety personnel or designee will notify the appropriate local government agency that a hazardous condition exists and evacuation needs to be implemented.
- 3. Company approved safety personnel that have been trained in the use of the proper emergency equipment will be utilized.
- 4. Law enforcement personnel (State Police, Local Police Department, Fire Department, and the Sheriff's Department) will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.

NOTE: Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

5. After the discharge of gas has been controlled, Company approved safety personnel will determine when the area is safe for re-entry.

See Emergency Action Plan

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 Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S CONTINGENCY PLAN EMERGENCY CONTACTS

BOPCO L.P. Midland Office

432-683-2277

Key Pe	ersonnel		
	Name	Title	Cell Phone Number
	Stephen Martinez	Drilling Supt.	432-556-0262
	Buddy Jenkins	Assistant Supt	432-238-3295
	Bill Dannels	Engineer	
	Pete Lensing	Engineer	
	Charles Warne	Engineer	
	Artesia		
	Ambulance		911
	State Police		575-746-2703
	City Police		575-746-2703
			575-746-9888
	Fire Department		575-746-2701
	Local Emergency Plan	nning Committee	575-746-2122
	New Mexico Oil Conse	ervation Division	575-748-1283
	Carlsbad		
	Ambulance		911
	State Police		575-885-3137
	Sheriff's Office	· ·	575-887-7551
	Fire Department		575-887-3798
	Local Emergency Plan	nning Committee	575-887-6544
	US Bureau of Land Ma	anagement	575-887-6544
		cy Response Commission (Santa F	e)505-476-9600
	24 Hour		505-827-9126
	New Mexico State Eme	ergency Operations Center	505-476-9635
	National Emergency R	Response Center (Washington, DC)	800-424-8802
	Other		
	Wild Well Control	43	32-550-6202 (Permian Basin)
	Cudd PressureControl	l432-580-3544 or 43	32-570-5300 (Permian Basin)
	Flight For Life – 4000 2	24 th St. Lubbock, Texas	806-743-9911
	Aerocare - R3, Box 49	F, Lubbock, Texas	806-747-8923
	Med Flight Air Amb - 2	2301 Yale Blvd SE #D3, Albuq., NM	505-842-4433
	S B Air Med Service -	2505 Clark Carr Loop SE, Albuq., N	IM505-842-4949
		- 3317 NW Cnty Rd, Hobbs, NM	575-393-3093
	Total Safety - 3229 Inc	dustrial Dr., Hobbs, NM	575-392-2973

TOXIC EFFECTS OF HYDROGEN SULFIDE

Hydrogen Sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 PPM, which is .001% by volume. Hydrogen Sulfide is heavier than air (specific gravity = 1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in Table I. Physical effects at various Hydrogen Sulfide exposure levels are shown in Table II.

Table I - TOXICITY OF VARIOUS GASES

Common	Chemical	Specific	Threshold	Hazardous	Lethal
Name	Formula	Gravity	Limit	Limit	Concentration
		(SC=1)	(1)	(2)	(3)
Hydrogen Cyanide	HCN	0.94	10 PPM	150 PPM/HR	300 PPM
Hydrogen Sulfide	H2S	1.18	10 PPM	250 PPM/HR	600 PPM
Sulfur Dioxide	SO2	2.21	5 PPM		1000 PPM
Chlorine	CL2	2.45	1 PPM	4 PPM/HR	1000 PPM
Carbon Monoxide	СО	0.97	50 PPM	400 PPM/HR	1000 PPM
Carbon Dioxide	CO2	1.52	5000 PPM	5%	10%
Methane	CH4	0.55	90,000 PPM	Combustible in air	Above 5%

- 1) Threshold Limit Concentration at which it is believed that all worker may be repeatedly exposed day after day without adverse effects.
- 2) Hazardous Limit Concentration that will cause death with short-term exposure.
- 3) Lethal Concentration Concentration that will cause death with short-term exposure.

Table II – PHYSICAL EFFECTS OF HYDROGEN SULFIDE

Percent (%)	PPM	Concentration Grains 100 STD. FT3*	Physical Effects
0.001	< 10	00.65	Obvious & unpleasant odor.
0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kills smell in 3-15 minutes. May sting eyes & throat.
0.020	200	12.96	Kills smell shortly; stings eyes & throat.
0.050	500	32.96	Dizziness; Breathing ceases in a few minutes. Needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; Death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; Followed by death within minutes.

• At 15.00 PSIA and 60° F.

USE OF SELF-CONTAINED BREATHING APPARATUS

- Anyone who uses an SCBA shall: Be approved by a physician or licensed health care practitioner; Pass a fit test; Be trained in donning and doffing, proper use, including how to ensure a proper face seal, conducting an inspection of the SCBA, and conduct proper maintenance.
- 2. Such items as facial hair (beard or sideburns) and eyeglasses will not allow a proper face mask seal.
- 3. Anyone reasonably expected to wear SCBA's shall have these items removed before entering a toxic atmosphere.
- A special mask with a mount for prescription glasses must be obtained for anyone who must wear eyeglasses in order to see while using an SCBA.
- 5. SCBA's should be worn in H₂S concentrations above 10 PPM.

RESCUE & FIRST AID FOR H₂S POISONING

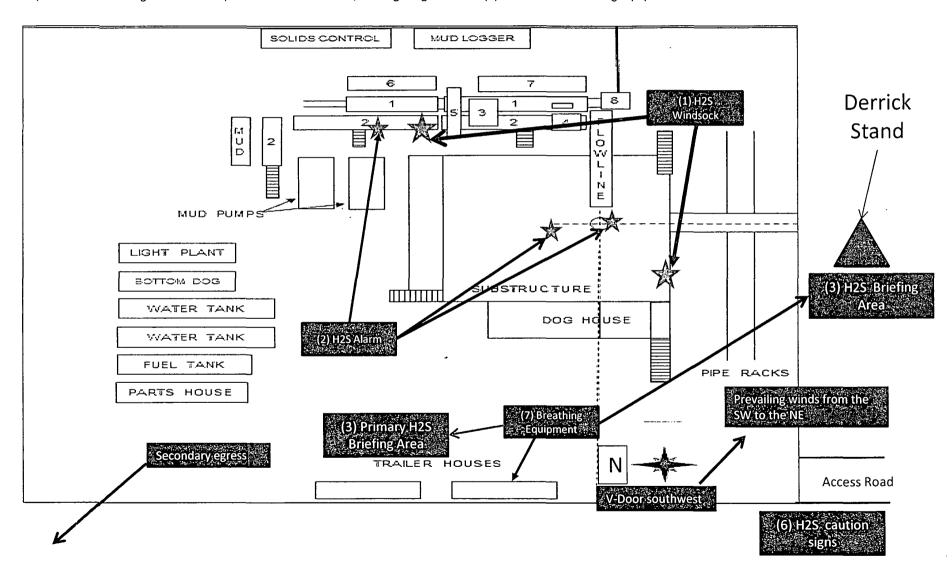
DO NOT PANIC - REMAIN CALM - THINK

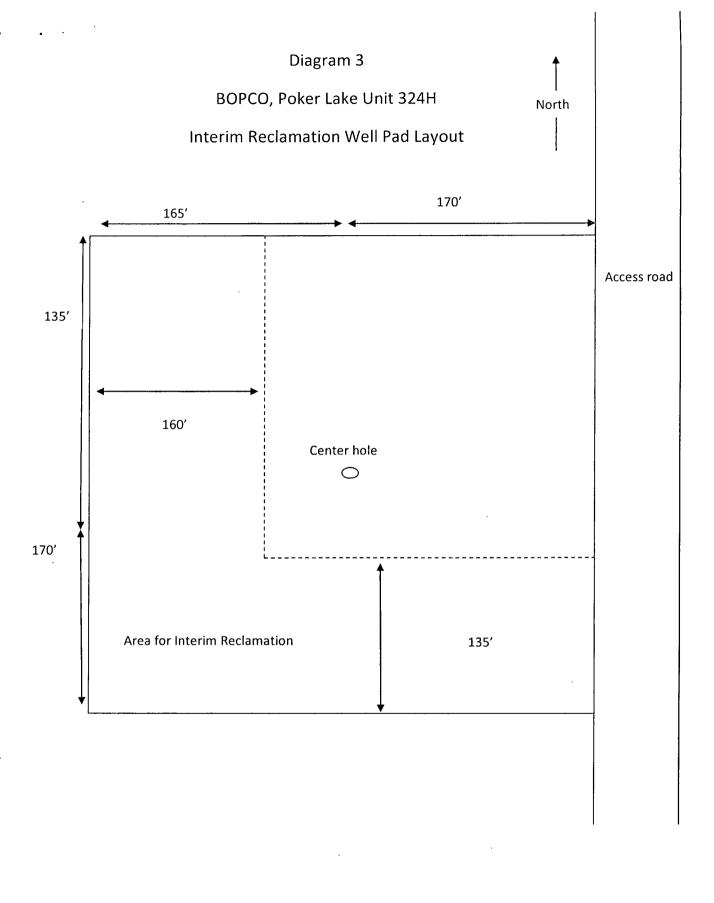
- 1. Hold your breath do not inhale first.
- 2. Put on SCBA.
- 3. Remove victim(s) to fresh air as quickly as possible. Go upwind from source or at right angle to the wind. Do not go downwind.
- Briefly apply chest pressure using arm lift method of artificial respiration to clean victim's lungs and to avoid inhaling any toxic gas directly from victim's lungs.
- 5. Provide artificial respiration if needed.
- 6. Provide for prompt transportation to the hospital and continue giving artificial respiration if needed.
- 7. Inform hospital/medical facilities of the possibility of H2S gas poisoning before they treat.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration and CPR, as well as first aid for eyes and skin contact with liquid H₂S.

Proposed H2S Safety Schematic

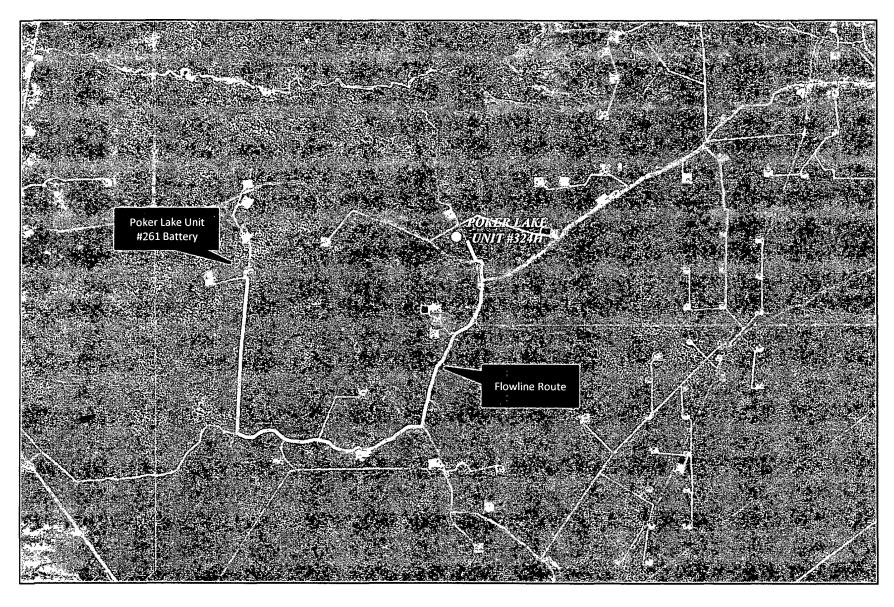
- 1) Location of windsocks.
- 4) Terrain of surrounding area (Please refer to page 2 of survey plat package also see point 11 of multi-surface use plan)
- 2) Location of H2S alarms
- 5) Location of flare line(s) and pit(s) (Please refer to diagram 2 choke manifold diagram and or page six of survey plat packet)
- 3) Location of briefing areas.
- 6) Location of caution and/or danger signs.
- (7) Location of Breathing Equipment





Flowline Route Diagram 4





Location On-Site Notes

Location on-site conducted by Cecil Watkins-BOPCO L.P., Justin Frye-BLM, and Robert Gomez-Basin Survey on 05/01/2012. The Poker Lake Unit 324H was approved in Section 23 with a surface footage call located at 2120' FNL & 480' FWL of Sec 23-T24S-R30E

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: BOPCO
LEASE NO.: LC068430
WELL NAME & NO.: 324H Poker Lake Unit
SURFACE HOLE FOOTAGE: 2120' FNL & 480' FWL
BOTTOM HOLE FOOTAGE 1350' FNL & 300' FEL, Sec 16
LOCATION: Section 23, T.24 S., R.30 E., NMPM
COUNTY: Eddy County, New Mexico

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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
Noxious Weeds
Special Requirements
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Fence Requirement
Water Line Requirement
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
☑ Drilling
Medium Cave/Karst
Logging Requirements
Waste Material and Fluids
☑ Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines – not requested
Interim Reclamation
Final Abandonment & Reclamation