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Form 3	160-3	SEP	1 2	2012	
(Aprii	2004) NN	100	D A	RTE	SIA

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EAR-1137

1	IK I EXILE				
Form 3160-3 SEP 1 2 2012 April 2004)	. -		OMB N	APPROVED o 1004-0137	
NMOCD ARTESIA UNITED STATES		-		March 31, 2007	
DEPARTMENT OF THE I			5 Lease Serial No. BHL NM Q02	862; SL LC 068430	
BUREAU OF LAND MANA		6 If Indian, Allotee or Tribe Name			
APPLICATION FOR PERMIT TO D	DRILL OR REENTER	-	See pg 1 of 8p	t DP for lease info.	1
a. Type of work DRILL REENTE	R		7 If Unit or CA Agr NMNM 71016	eement, Name and No 5X	
b. Type of Well. Onl Well Gas Well Other	Single Zone Multip	ole Zone	8. Lease Name and Poker Lake U	7 (~ /	4
Name of Operator BOPCO, L. P.	-26073	77	9 API Well No.	5-4068	4
a Address P. O. Box 2760 Midland, TX 79702	3b Phone No. (include area code) 432-683-2277		10. Field and Pool, or Corral Canyo	Exploratory n HE; Delawaro	<u>′3</u> ′
Location of Well (Report location clearly and in accordance with any			11. Sec., T. R M or F	Blk and Survey or Area	
At surface NENE, UL A, 243' FNL & 64' FEL, At proposed prod zone 2500' FNL,350' FWL, Sec 28,T24S-I	Lat:N32.180714, Long: W103.8' R30E; Lat:N32.188939, Lg: W103	77281 6.9265	Sec 33, T24S-	R30E, Mer, NMP	
Distance in miles and direction from nearest town or post office* 20 miles East of Malaga	LOCATOR		12 County or Parish Eddy	13 State	1
Distance from proposed* focation to nearest property or lease line, fl	16. No of acres in lease		Unit dedicated to this	well	
(Also to nearest drig unit line, if any)	4,439.76	280	1.5. 1.11. (1)		
Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft	19 Proposed Depth 13,363' MD / 7,463' TVD	Proposed Depth 20 BLM/BIA Bond No on file COB 000050			
Elevations (Show whether DF, KDB, RT, GL, etc) 3,309' GL	22. Approximate date work will star 10/01/2012	t* :	23 Estimated duration 30 Days	n	
	24. Attachments				
following, completed in accordance with the requirements of Onshore	Oil and Gas Order No.1, shall be at	ttached to this	form		
Well plat certified by a registered surveyor. A Drilling Plan A Surface Line Plan (if the location is on National Fount System L.)	Item 20 above)	•	unless covered by an	existing bond on file (see
A Surface Use Plan (if the location is on National Forest System L SUPO shall be filed with the appropriate Forest Service Office)		specific infor	mation and/or plans a	s may be required by the	e
Signature Braden	Name (Printed/Typed) Jeremy Braden			Date 6-21-12	_
Engineering Assistant					
prover by (Signature) /s/ Don Peterson	Name (Printed/Typed) /s/	Don Pe	terson	Date SEP 10 ;	— 2012
V ^L FIELD MANAGER	Office CARLSBAD	FIELD OF	FICE		
oplication approval does not warrant or certify that the applicant holds and operations thereon, onditions of approval, if any, are attached.	legal or equitable title to those right	-		entitle the applicant to	— AF

Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

*(Instructions on page 2)

Carlsbad Controlled Water Basin

BOPCO, L.P.

P. O. Box 2760 Midland, Texas 79702

432-683-2277

FAX-432-687-0329

June 19, 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 #363H

243' FNL, 64' FEL, SEC. 33, 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.

Sincerel

Stephen M. Martinez

Division Drilling Superintendent

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

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

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

1000 Rio Brazos Rd., Aztec. NM 87410

DISTRICT III

Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code			Pool Name		
30-015-40	684	96209	13360	Corral Canyon NE (Delaware	2)	
Property Code	7	•	rty Name	Well Number		
306402			363H			
OGRID No.			Opera	tor Name	Elevation	
260737		BOPCO. L.P.				

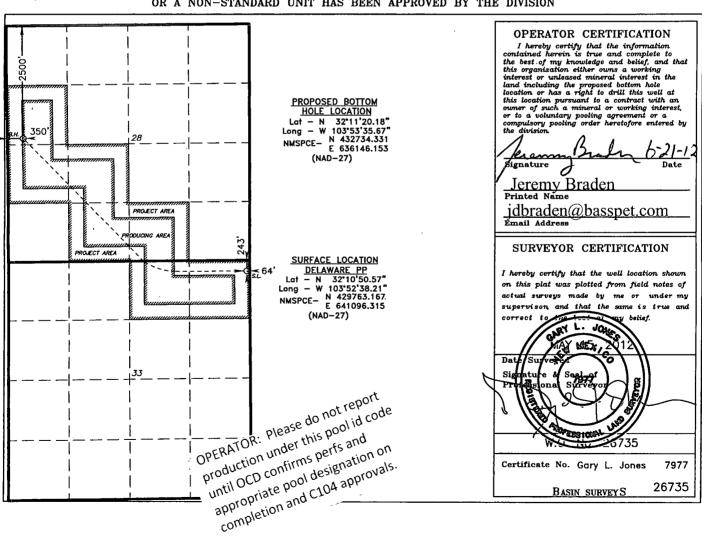
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	ĺ
Α	33	24 S	30 E		243	NORTH	64	EAST	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
E	28	24 S	30 E		2500	NORTH	350	WEST	EDDY
Dedicated Acres Joint or Infill Consolidation Code			ode Or	der No.				····	
280									

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



EIGHT POINT DRILLING PROGRAM BOPCO, L.P.

NAME OF WELL: Poker Lake Unit 363H

LEGAL DESCRIPTION - SURFACE: 243' FNL, 64' FEL, Section 33, T24S, R30E, Eddy County, NM.

BHL: 2500' FNL, 350' FWL, Section 28, 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 3331' (estimated)

GL 3309'

Formation Description			SUB-SEA TOP	
T/Fresh Water	365'	365'	+ 2,966'	Fresh Water
T/Rustler	651'	651'	+ 2,680'	Barren
T/Salado	891'	891'	+ 2,440'	Barren
Lamar	3,794'	3,794'	- 463'	· Oil/Gas
Delaware Sands Beil Canyon	3,828'	3,828'	- 497'	Oil/Gas
Shell Zone Marker	6,671'	6,671'	- 3,340'	Oil/Gas
KOP	6,943'	6,943'	- 3,612'	Oil/Gas
Lower Brushy Canyon "8A" Sand	7,350'	7,430'	- 4,019'	Oil/Gas
Lower Brushy Canyon "Y" sand	7,504'	7,778'	- 4,173	Oil/Gas
EOC ·	7,536'	7,893'	- 4,205'	Oil/Gas
Target #1	7,536'	7,893'	- 4,205'	Oil/Gas
TD Horizontal Hole	7,463'	13,363'	- 4,132'	Oil/Gas

POINT 3: CASING PROGRAM

TYPE	INTERVAL MD	HOLE SIZE	PURPOSE	INSTALLATION TYPE
20"	0' – 120'	30"	Conductor	Contractor Discretion
13-3/8", 48#, H-40, or 54.5#, J-55 8rd, ST&C*	0' – 873'	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' - 3,818'	12-1/4"	Intermediate	New
7", 26#, N-80, Buttress or 8rd LTC*	0' – 7,643'	8-3/4"	Production	New

Completion System	新品种学员证实现的			在这个人的
4-1/2", 11.6#, HCP-110 8rd. LT&C,	7,593' - 13,363'	6-1/8"	Completion System	New
BTC, or Ultra Flush				

^{*} Depending on availability.

CASING DESIGN SAFETY FACTORS:

TYPE	TENSION	COLLAPSE	BÜRST
13-3/8", 48#, H-40, 8rd, ST&C*	8.94	1.70	1.66
13-3/8", 54.5#, J-55, 8rd, STC*	20.93	2.67	2.63
9-5/8", 40#, N-80, 8rd, LT&C*	5.72	1.41	2.70
9-5/8", 40#, J-55, 8rd, LT&C*	4.89	1.15	1.85
7", 26#, N-80, Buttress*	3.61	1.34	1.74
7", 26#, N-80, 8rd, LTC*	3.10	1.30	. 1.74

Completion System	W. A. S. A.		25.200000000000000000000000000000000000
4-1/2", 11.6#, HCP-110 8rd. LT&C	3.71	2.14	2.36
BTC	4.88	2.24	2.36
Ultra Flush	3.19	1.81	2.36

^{*} Depending on availability.

DESIGN CRITERIA AND CASING LOADING ASSUMPTIONS:

SURFACE CASING - (13-3/8")

Burst

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.

A 1.3 design factor with a surface pressure equal to the fracture gradient at setting depth less a gas gradient to the surface. Internal burst force at the shoe will be fracture pressure a that depth. Backup pressure will be formation pore pressure. In all cases a conservative fracture pressure will be used such that it represents the upper limit of potential fracture resistance up to a 1.0 psi/ft gradient. The effects of

tension on burst will not be utilized.

PROTECTIVE CASING - (9-5/8")

Tension A 1.6 design factor utilizing the effects of buoyancy (10.2 ppg).

Collapse A 1.125 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.

In the case of development drilling, collapse design should be analyzed using internal evacuation equal to 1/3 the proposed total depth of the well. This criterion will be used when there is absolutely no potential of

the protective string being used as a production casing string.

Burst A 1.0 surface design factor and a 1.3 downhole design factor with a surface pressure equivalent to the fracture gradient at setting depth less a gas gradient to the surface. Internal burst force at the shoe will be fracture pressure at that depth. Back pressure will be formation pore pressure. In all cases a conservative fracture pressure will be used such that it represents the upper limit of potential fracture resistance up to a

1.0 psi/ft gradient.

Production CASING - (7")

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

Collapse A 1.125 design factor with full internal evacuation and a collapse force equal to the mud gradient in which

the casing will be run (0.48 psi/ft). The effects of axial load on collapse will be considered.

Burst A 1.25 design factor with anticipated maximum tubing pressure (5000 psig) on top of the maximum

anticipated packer fluid gradient. (0.433 psi/ft) Backup on production strings will be formation pore

pressure. (0.433 psi/ft) The effects of tension on burst will not be utilized

Completion System - (4-1/2")

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

Collapse A 1.125 design factor with full internal evacuation and a collapse force equal to the mud gradient in which

the casing will be run (0.48 psi/ft). The effects of axial load on collapse will be considered.

Burst A 1.25 design factor with anticipated maximum tubing pressure (5000 psig) on top of the maximum

anticipated packer fluid gradient. (0.433 psi/ft) Backup on production strings will be formation pore

pressure. (0.433 psi/ft) The effects of tension on burst will not be utilized.

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM 1 & 2)

The BOPE when rigged up on the 13-3/8" surface casing head (12-1/4" open hole) will consist of 13-5/8" X 5,000 psi dual ram BOP's with mud cross, choke manifold, chokes, and hydril per Diagram 1 (5,000 psi WP). The pipe and blind rams, choke, kill lines, kelly cocks, inside BOP, etc. when installed on the surface casing head will be hydro-tested to 250-300 psig and 2000 psig by independent tester. The hydril when installed on surface casing head will be tested to 1000 psi.

The BOPE when rigged up on the 9-5/8" intermediate casing spool (8-3/4" open hole) will consist of 13-5/8" x 5,000 psi annular, 13-5/8" x 5,000 psi pipe & blind rams with mud cross, choke manifold and chokes as in Diagram 1. The pipe and blind rams, choke, kill lines, kelly cocks inside BOP, etc. will be tested to 3000 psig by independent tester. In addition to the high pressure test, a low pressure (250-300 psig) test will be required. Hydril will be tested to 1500 psig.

The BOPE when rigged up on the 7" intermediate casing spool (6-1/8" open hole) will consist of 13-5/8" x 5,000 psi annular, 13-5/8" x 5,000 psi pipe & blind rams with mud cross choke manifold and chokes as in Diagram 1. The pipe and blind rams, choke, kelly lines, kelly cocks inside BOP, etc. will be tested to 3000 psig by independent tester. In addition to the high pressure test, a low pressure (250-300 psig) test will be required. Hydril will be tested to 1500 psig.

These tests will be performed:

- a) Upon installation
- b) After any component changes
- c) Thirty days after a previous test
- d) As required by well conditions

A function test to insure that the preventers are operating correctly will be performed on each trip.

As a contingency 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 13,363' MD (7521' TVD) and max surface pressure should be +/-1865 psi as prescribed in onshore order #2 shown as 0.22 psi/ft. 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.

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

POINT 5: MUD PROGRAM

i Onti o. moi								
DEPTH 4	有这种的特别	MUD TYPE	WEIGHT	FV.	· PV	YP :	FL	Ph
0' - 873'	FW Spud Mud	8.5 – 9.2	38-70	NC	NC	NC	10.0	
873' - 3,818'	Brine Water	9.8 – 10.2	28-30	NC	. NC	NC	9.5 – 10 5	
3,818' – 7,646'	FW/Gel	8.7 – 9.0	28-36	NC	NC	NC	9.5 – 10.0	
7,646'-13,363'	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

TESTING A)

None anticipated.

B)

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

hole.

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

Mud Logger: Rigged up at 100'

C) CONVENTIONAL CORING

None anticipated

D) CEMENT

INTERVAL	AMOUNT SXS	FT OF	TYPE	GALS/SX	PPG	FT ^{3/} SX
SURFACE: Lead: 0' – 570'	452	570	Class C +2% CACL + 4% Bentonite + 0.25 LB/SK Cello Flake + 3 lb/sk LCM-1	8.69	13:50	1.75
Tail: 570' – 873'	335	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' - 3,318'	1005	3,318	EconoCEM HLC + 5% CaCl + 5#/sk Gilsonite	9.32	12.90	1.85
Tail. 3,318' – 3,818'	261	500	HalCem C	6.34	14.80	1.33
Production Stage 1:						
Lead. 5,000' -6,943'	170	1,943	Tuned Light + 0.75% + CFR-3 + 1.5#/sk CaCl	12.41	10.20	2.76
Tail: 6,943' – 7,646'	116	703	VersaCem-PBSH2 + 0.4% Halad-9	8.76	13.0	1.65
DV Tool @ 5,000'						
Stage 2:					{	
Lead: 3,315' – 4,500'	120	1185	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

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout Delaware section. A BHP of 3519 psi (max) or MWE of 9.0 ppg is expected. Lost circulation may exist in the Delaware Section from 3,828'-7,520' 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



-400

BOPCO, L.P.

Location: Eddy County, NM
Field Poker Lake Unit
Facility: Poker Lake Unit No. 363H

Slot. No 363H SHL Well: No.363H Wellbore No 363H PWB



TD/PBHL 90 79° Inc, 13363 44ft MD, 7463 00ft TVD, 5773 78ft VS

6400

Rev-C.0

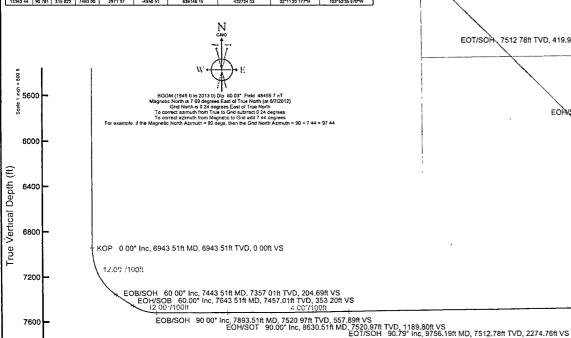
6800 Scale 1 inch = 800 ft

Well Profile Data											
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)			
Tie On	22 00	0 000	270 000	22 00	0 00	0 00	0 00	0.00			
KOP	6943 51	0,000	270 000	6943.51	0 00	0 00	0 00	0 00			
EOB/SOH	7443 51	60 000	270 000	7357 01	0 00	-238 73	12 00	204 69			
EOH/SOB	7643 51	60 000	270 000	7457 01	0 00	-411 94	0 00	353 20			
EOB/SOH	7893 51	90 000	270.000	7520 97	0 00	-650 67	12 00	557 89			
EOH/SOT	8630 51	90 000	270 000	7520 97	0 00	-1387 67	0.00	1189 80			
EOT/SOH	9756 19	90.791	315 022	7512 78	419 94	-2401 01	4.00	2274 76			
TD/PBHL	13363 44	90 791	315 022	7463 00	2971 37	-4950 51	0 00	5773 78			

			Location In	formation		
•	Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Poke	r Lake Unit No	63H	641096 315	429763 167	32*10'50 570*N	103°52'38 213"W
Slot	Local N (ft)	Local E (ft)	Gnd East (US ft)	Grid North (US ft)	Latitude	Longitude
No 363H SHL	0.00	0 00	641096 315	429763 167	32*10'50 570'N	103°52'38 213"W
Rig on No 363H	SHL (KB) to Mu	line (At Slot No	363H SHL)		22ft	
Mean Sea Leve	to Mud line (At	-3309ft				
Rig on No 363H	SHL (KB) to Me	an Sea Level			3331ft	

Name	,	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Gnd East (US ft)	Grid North (US ft)	Latitude	Longitude
No 363H P	BHL	13363 44	7463 00	2971,37	-4950 51	636146 15	432734 33	32*11 20 177"N	103*53'35 670"W
Bottom Hole Location									
MD (ft)	Inc (*)	AZ (1)	TVD (ft)	Local N (ft)	Local E (ft)	Gnd East (US ft)	Gnd North (US ft)	Latitude	Longitude
13363 44	90 791	315 022	7463 00	2971 37	-4950 51	636146 15	432734 33	32*11 20 177*N	103°53'35 670'W

Targets



400

800

1200

1600

2000

2400

2800

3200

Vertical Section (ft)

Azimuth 300 97° with reference 0.00 N, 0.00 E

3600

4000

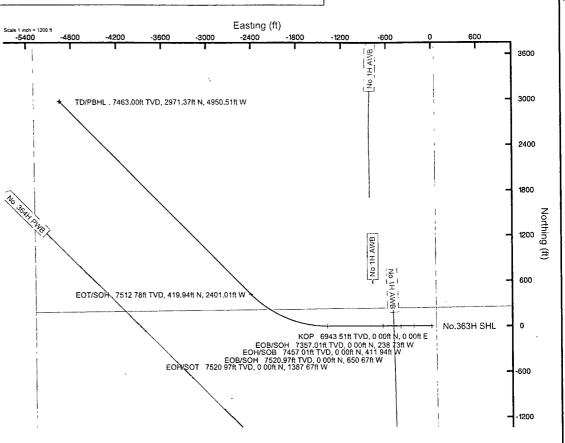
4400

4800

5200

5600

6000





Planned Wellpath Report Rev-C.0 Page 1 of 7



RESIDENT	YCE-MELIPATHEIDENHEICATION	Y. Salah	
Operator	BOPCO, L.P.	Slot	No.363H SHL
Area	Eddy County, NM	Well	No.363H
Field	Poker Lake Unit	Wellbore	No.363H PWB
Facility	Poker Lake Unit No. 363H		

RIMPORTESTATURALSIZ	ORMATION:		
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Daviarem
Scale	0.999932	Report Generated	6/12/2012 at 3:56:36 PM
Convergence at slot	0.24° East	Database/Source file	WA_Midland/No.363H_PWB.xml

MICELPAINFILOCATION.										
	Local coo	rdinates	Grid co	oordinates	Geographic coordinates					
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude				
Slot Location	0.00	0.00	641096.32	429763.17	32°10'50 570"N	103°52'38 213"W				
Facility Reference Pt			641096.32	429763.17	32°10'50.570"N	103°52'38.213"W				
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W				

WELLEPANDED DATE ON THE			
Calculation method	Minimum curvature	Rig on No.363H SHL (KB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Rig on No.363H SHL (KB) to Mean Sea Level	3331.00ft
Vertical Reference Pt	Rig on No.363H SHL (KB)	Rig on No.363H SHL (KB) to Mud Line at Slot (No.363H	SHL) 22.00ft
MD Reference Pt	Rig on No.363H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	300.97°



Planned Wellpath Report Rev-C.0 Page 2 of 7



Randaram	NGE WELLPATH IDENTIFICATIONS.		
Operator	BOPCO, L.P.	Slot	No.363H SHL
Area	Eddy County, NM	Well	No.363H
Field	Poker Lake Unit	Wellbore	No.363H PWB
Facility	Poker Lake Unit No. 363H		

WELLPAT	WELLPATH DATA (142 stations) † = interpolated/extrapolated station												
MD	Inclination	Azimuth	TVD	Vert Sect		East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]
0.00†	0.000	270.000	0.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0 000	0.00
22 00	0.000	270.000	22.00	0.00	0.00	0.00	641096.31	429763 17	32°10'50.570"N	103°52'38.213"W	0 00	0.000	0.00
122.00†	0.000	270.000	122.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
222 00†	0.000	270.000	222.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
322.00†	0.000	270.000	322.00	0 00	0.00	0.00	641096.31	429763.17	32°10'50:570"N	103°52'38.213"W	. 0 00 5	0.000	0.00
422.00†	0.000	270.000	422.00	0.00	0 00	0.00	641096 31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
522.00†	0.000	270.000	522.00	0.00	0 00	0.00	641096.31	429763.17	32°10'50 570"N	103°52'38 213"W	0 00 !	0 000	0.00
622 00†	0.000	270.000	622.00	0.00	0 00	0.00	641096.31	429763.17	32°10'50 570"N	103°52'38.213"W	0.00	0.000	0.00
722.00†	0.000	270.000	722 00	0.00	0.00	0 00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0 000	0.00
×822.00†	0.000	270:000	822.00	0.00	< 10:00	∤0.00	641096.31	429763:17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
922.00†	0 000	270.000	922 00	0 00	0.00	0.00	641096.31	429763.17	32°10'50 570"N	103°52'38.213"W	0.00	0.000	0.00
1022.00†	0 000	270.000	1022.00	0.00	0.00	0 00	641096 31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0 000	0.00
1122 00†	0.000	270 000	1122.00	0 00	0.00	0.00	641096 31	429763.17	32°10'50.570"N	103°52'38 213"W	0 00	0.000	0 00
1222.00†	0.000	270.000	1222.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0 00	0.000	0 00
1322.00†	0.000	: 270.000	1322.00	0 00	0.00	0.00	641096:31;	429763:17	32°10'50:570''N			0 000	0.00
1422.00†	0.000	270.000	1422.00	0 00	0.00	0.00	641096.31	429763.17	32°10'50 570"N	103°52'38.213"W	0 00	0.000	0.00
1522.00†	0.000	270.000	1522 00	· 0.00	0.00	0 00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0 00	0 000	0.00
1622.00†	0 000	270.000	1622.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38 213''W	0.00	0.000	0.00
1722 00†	0 000	270 000	1722.00	0.00	0 00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38 213"W	0 00	0.000	0.00
. 1822:00†	0.000	270.000	. 1822.00	-0.00	∀0.00	0.00	641096.31	429763:17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
1922 00†	0.000	270 000	1922.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50 570"N	103°52'38.213"W	0 00	0.000	0 00
2022.00†	0.000	270.000	2022.00	0.00	0.00	0 00	641096.31	429763.17	32°10'50.570"N	103°52'38 213"W	0.00	0.000	0.00
2122 00†	0.000	270.000	2122.00	0 00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38 213"W	0 00	0 000	0.00
2222.00†	0.000	270.000	2222.00	0 00	0.00	0.00	641096 31	429763.17	32°10'50.570"N	103°52'38 213"W	0 00	0 000	0 00
2322.00†	0.000	270.000	2322:00	0.00	0.00	0.00	641096.31	429763.17	32°10'50:570"N	103°52'38.213"W	0.00	0.000	0.00
2422.00†	0.000	270.000	2422.00	0 00	0.00	0.00	641096.31	429763.17	32°10'50 570"N	103°52'38.213"W	0.00	0.000	0.00
2522.00†	0.000	270.000	2522.00	0.00	0.00	0 00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0 00	0.000	0.00
2622.00†	0.000	270.000	2622.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50 570"N	103°52'38.213"W	0.00	0 000	0.00
2722.00†	0.000	270.000	2722.00	0 00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	
2822.00†	0.000	270.000	2822:00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	,103°52'38.213"W	0.00	0.000	(0.00)



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REPERM	ACE AMELIE PARHEIDENHIE (CANON:		
Operator	BOPCO, L.P.	Slot	No.363H SHL
Area	Eddy County, NM	Well	No.363H
Field	Poker Lake Unit	Wellbore	No.363H PWB
Facility	Poker Lake Unit No. 363H		

WELLPATH DATA (142 stations) † = interpolated/extrapolated station													
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	270.000	2922.00	0.00	0.00	0.00	641096.31	429763 17	32°10'50.570"N	103°52'38.213"W	0 00	0.000	0 00
3022.00†	0.000	270.000	3022.00	0 00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
3122.00†	0.000	270.000	3122.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38 213"W	0.00	0.000	0 00
3222.00†	0.000	270.000	3222.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
3322.00†	0.000	270.000	3322.00	0.00	0:00	0.00	641096.31	429763.174	32°10'50.570"N	103252'38.213"W	0.00	0:000	0.00
3422.00†	0.000	270 000	3422.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
3522.00†	0.000	270.000	3522.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0 00	0.000	0.00
3622.00†	0.000	270.000	3622:00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0 00	0 000	0.00
3722.00†	0.000	270.000	,	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
· 3822.00† №	0.000	270.000	3822.00	0.00	0:00	0:00	≸ : .641096:31°	. 429763.17	32°10'50.570"N	103°52'38:213"W	0.00	0.000	0.00
3922.00†	0.000	270.000	3922.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50 570"N	103°52'38.213"W	0 00	0.000	0.00
4022.00†	0.000	270.000	4022.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
4122.00†	0.000	270.000	4122.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
4222.00†	0.000	270.000	4222.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
-4322.00†	0.000	270:000	4322.00	. 0 00	0.00	0.00	641096.31	429763:17	32°10'50:570"N	103°52'38:213"W		0:000	0.00
4422.00†	0.000	270.000	4422.00	0 00	0.00	0.00	641096.31	429763.17	32°10'50 570"N	103°52'38.213"W	0 00	0 000	0.00
4522.00†	0.000	270.000	4522.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0 00
4622.00†	0.000	270.000	4622.00	0 00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0 00	0.000	0.00
4722.00†	0.000	270.000	4722.00	0 00	0.00	0.00	641096.31	429763.17	32°10'50 570"N	103°52'38 213"W	0.00	0.000	0.00
4822.00†	0.000	270.000	4822.00	.0.00	0.00	0.00	641096:31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
4922.00†	0.000	270.000	4922.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
5022.00†	0.000	270.000	5022 00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38 213"W	0.00	0.000	0.00
5122 00†	0 000	270.000	5122 00	0 00	0.00	0.00	641096 31	429763.17	32°10'50 570"N	103°52'38 213"W	0 00	0 000	0.00
5222.00†	0.000	270 000	5222 00	0.00	0.00	0 00	641096 31	429763 17	32°10'50.570"N	103°52'38 213"W	0 00	0 000	0.00
5322.00	0.000	270.000	5322.00	000	0.00	. 0.00	641096.31	429763.17	32°10'50.570"N		0.00	0.000	0.00
5422 00†	0.000	270 000	·	0 00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0 00	0 000	0 00
5522 00†	0 000	270 000	<u></u>	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38 213"W	0 00	0 000	
5622.00†	0.000	270.000	<u> </u>	0.00	0.00	0.00	641096.31	429763.17	32°10'50 570"N	103°52'38 213"W	0.00	0 000	0 00
5722.00†	0.000	270.000	5722 00	0.00	0.00	0 00	641096 31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
5822.00†	0.000	270.000	5822.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	. 0.00	0.000	1 0.00



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ROTORIO	ROUDRIENCE WELLEPARHEIDENHEICAURON.									
Operator	BOPCO, L.P.	Slot	No.363H SHL							
Area	Eddy County, NM	Well	No.363H							
Field	Poker Lake Unit	Wellbore	No.363H PWB							
Facility	Poker Lake Unit No. 363H									

WELLPA'	TH DATA	(142 stati	ons) †=	interpola	ated/ex	trapolated	station	,	,	,			
MD	Inclination	Azimuth	TVD	Vert Sect		East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS
[ft]	[°]	ا ا	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	20010150 550021	102050120 0121111	[ft]	[°]	[°/100ft]
5922 00†	0.000		5922 00	0.00	0.00	· · · · · · · · · · · · · · · · · · ·	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0 00	,	0.00
6022 00†	0.000		6022 00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
6122.00†	0.000		6122.00	0.00	0.00	0.00	641096.31	429763.17		103°52'38.213"W	0.00	0.000	0 00
6222.00†	0.000	270.000	6222.00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38 213"W	0.00	0 000	0.00
.6322.00†	No. of the second secon	Military of the second	6322.00		The state of the s	0.00	641096.31	Commence of the commence of the contract of th	for interest the state of a south management and a property	and the same of th		0.000	0.00 مرسون
6422.00†	0.000		6422.00	0.00	0.00	0.00	641096.31	·	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0 00
6522.00†	0.000	270 000	6522.00	0.00	0.00	0.00	641096.31	429763 17	1	103°52'38.213"W	0 00	0.000	0 00
6622.00†	0 000		6622.00	0.00	0.00	0.00	641096 31	429763.17	32°10'50 570"N	103°52'38.213"W	0.00	0.000	0.00
6722.00†	0 000			0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0 00	0.000	0.00
6822.00†	0.000	270.000	6822.00	0.00	0.00	0.00	···: 641096.3 <u>1</u>	429763:17	32°10'50.570"N	103°52'38.213"W	0:00	0.000	0.00
6922 00†	0 000	270 000	6922 00	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0.00
6943.51	0.000	270 000	6943.51	0.00	0.00	0.00	641096.31	429763.17	32°10'50.570"N	103°52'38.213"W	0.00	0.000	0 00
7022.00†;	9.419	270.000	7021.65	5.52	0.00	-6.44	641089.88	429763.17	32°10'50.570"N	103°52'38.288"W	6 44	270.000	12.00
7122.00†	21.419	270.000	7117.87	28.27	0.00	-32.98	641063.34	429763.17	32°10'50.571"N	103°52'38.597"W	32.98	270.000	12 00
7222.00	33.419	270.000	<i>7</i> 206.48	67.68	0.00	-78.94	641017:38	429763.17	32°10'50.573"N	:::-::103°52¦39-l32"W	78.94	270.0001	* 312.00
7322.00†	45.419	270.000	7283.59	122.03	0.00	-142.32	640954.00	429763.17	32°10'50.576"N	103°52'39.869"W	142.32	270.000	12.00
7422.00†	57.419	270.000	7345.84	188.93	0.00	-220.35	640875.98	429763.17	32°10'50.579"N	103°52'40.777"W	220.35	270.000	12.00
7443.51	60.000	270.000	7357.01	204.69	0.00	-238.73	640857.60	429763.17	32°10'50.580"N	103°52'40.991"W	238.73	270.000	12.00
7522.00†	60.000	270.000	7396.25	262.97	0.00	-306.71	640789.63	429763.17	32°10'50.583"N	103°52'41 782"W	306.71	270.000	0.00
7622.00†	60.000	270.000	7446.25	337.23	:0:00	393.31	640703.03	429763.17	32°10'50:586"N	: 103°52'42.790"Wi	393.31	270:000	0.00
7643 51	60.000	270.000	7457.01	353.20	0.00	-411.94	640684.41	429763.17	32°10'50.587"N	103°52'43.006"W	411.94	270.000	0.00
7722 00†	69.419	270.000	7490.50	413.98	0.00	-482.82	640613.52	429763.17	32°10'50.590"N	103°52'43.831"W	482.82	270.000	12 00
7822.00†	81.419	270 000	7515.63	496.81	0.00	-579.43	640516.93	429763 17	32°10'50.594"N	103°52'44.955"W	579.43	270.000	12.00
7893.51	90.000	270.000	7520.97	557.89	0.00	-650.67	640445.69	429763.17	32°10'50.597"N	103°52'45.784"W	650 67	270.000	12 00
7922.00t	90:000	270.000	7520.97	582:32		679:16	640417.20	429763.17	32°10'50:598"N	• 103°52'46.115"W	679.16	-270.000	0.00
8022.00†	90.000	270.000	7520.97	668.06	0.00	-779.16	640317.21	429763.17	32°10'50.602"N	103°52'47.279"W	779 16	270 000	0.00
8122.00†	90.000	270 000	7520.97	753.80	0.00	-879.16	640217.22	429763.17	32°10'50 606"N	103°52'48 442"W	879 16	270 000	0 00
8222.00†	90.000	270 000	7520.97	839.54	0.00	-979.16	640117 22	429763.17	32°10'50 611"N	103°52'49.606"W	979 16	270.000	0.00
8322.00†	90.000	270.000	7520.97	925.28	0.00	-1079.16	640017.23	429763.17	32°10'50.615"N	103°52'50.769"W	1079 16		0 00
8422.00†	90.000	270.000	7520.97	1011.03	0.00	-1179.16	639917.24	429763.17	and the state of the state of the same of the state of th	.103°52'51'.933,"W]	1179:16	270.000	0.00
												And the state of t	



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i (appantant	NCE WELLPARHIDENIHEIGATION		
Operator	BOPCO, L.P.	Slot	No.363H SHL
Area	Eddy County, NM	Well	No.363H
Field	Poker Lake Unit	Wellbore	No.363H PWB
Facility	Poker Lake Unit No. 363H		

WELLPATI	H DATA (142 static	ins) †=	interpola	ited/extra	polated st	ation		terminan pengangangan delikerahan dalam bangan sempengan pengangan dalam di mela- ter	ny afa-padak - a a kampundina dapi-aktifati dahan melandah dalah melandah			
	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†	90.000	270.000	7520 97	1096.77	0.00	-1279.16	639817.24	429763.17	32°10'50.623"N	103°52'53.096"W	1279.16	270.000	0.00
8622.00†	90.000	270.000	7520.97	1182 51	0 00 }	-1379.16	639717.25	429763 17	32°10'50.627"N	103°52'54 260"W	1379 16	270.000 į	0 00
8630.51	90.000	270.000	7520.97	1189.80	0.00	-1387.67	639708.74	429763.17	32°10'50.628"N	103°52'54.359"W	1387.67	270.000	0 00
8722.00†	90.071	273.659	7520.92	1269.70	2.92	-1479.10	639617.32	429766.09	32°10'50.660"N	103°52'55.422"W	1479.10	270.113	4.00
8822.00†	90.149	277.658	7520.73	1360.08	12 78	-1578.59	·× 639517:84	429775.94	**32°10'50:762"N	103°52'56.579"W	1578.64	270.464	<i>.</i> 73.±4:00∃
8922.00†	90.226	281.657	7520.40	1453 22	29.55	-1677 15	639419.28	429792.72	32°10'50.932"N	103°52'57.725"W	1677.41	271.009	4 00
9022.00†	90.302	285 657	7519.94	1548.66	53.16	-1774.30	639322.14	429816.32	32°10'51.170"N	103°52'58.855"W	1775 10	271.716	4 00
9122.00†	90.376	289 656	7519 35	1645 95	83.48	-1869.57	639226 87	429846.64	32°10'51.474"N	103°52'59.961"W	1871 44	272.557	4.00
9222.00†	90.449	293.656	7518 63	1744.61	120.38	-1962.49	639133.96	429883.53	32°10'51 843"N ;	103°53'01.041"W	1966.18	273 510	4 00
9322.00十	90.519	297.655	75,17.78	1844.16	163.66	-2052.61	639043.85	429926.82	32°10'52.275"N	103°53'02.087"W	2059.13	274.559	4.00
9422.00†	90.587	301.655	7516 82	1944.11	213 13	-2139.49	638956.97	429976.28	32°10'52.768"N	103°53'03.096"W	2150.08	275.689	4 00
9522.00†;	90.652	305.654	7515.74	2043.97	268 53	-2222.71	638873.76	430031.68	32°10'53.319"N	103°53'04.061"W	2238.87	276 889	4 00
9622.00†	90.713	309.654	7514.54	2143.27	329.60	-2301.86	638794.62	430092.75	32°10'53.927"N	103°53'04.9 7 9"W	2325 34	278 149	4.00
9722.00†	90.772	313.654	7513.25	2241.50	396.05	-2376.56	638719.93	430159.19	32°10'54.588"N	103°53'05.845"W	2409 33	279.461	4.00
9756:19	90.791	=315.022	7512:78	2274.76	419.94	-2401:01	638695.48	430183.08	32°10'54!825"N	103°53'06!128"W	2437:45	279.921	4:00
9822.00†	90 791	315 022	7511.87	2338.60	466.49	-2447.52	638648.97	430229.62	32°10'55.288"N	103°53'06.667"W	2491.58	280.791 j	0.00
9922.00†	90.791	315.022	7510.49	2435.60	537.22	-2518.20	638578.30	430300.35	32°10'55.990"N	103°53'07.486"W	2574 86	282.043	0 00
10022.00†	90 791	315.022	7509.11	2532.60	607.95	-2588.87	638507.62	430371.07	32°10'56.693"N	103°53'08.305"W	2659.30	283 215	0.00
10122.00†i	90 791	315.022	7507.73	2629.60	678.68	-2659.55	638436.95	430441.80	32°10'57.396"N	103°53'09.124"W	2744.78	284.316	0 00
- 10222.00†	90.791	315.022	7506.35	2726.60	749.41	2730.23	638366.28	430512:52	32°10'58:099"N	103°53'09.943"W	2831:21	285-3491	(0:00)
10322.00†	90 791	315.022	7504.97	2823.60	820.14	-2800.91	638295.61	430583.25	32°10'58.802"N	103°53'10.762"W	2918 51	286 321	0.00
10422.00†	90.791	315.022	7503 59	2920.60	890.87	-2871.58	638224.93	430653.98	32°10'59.505"N	103°53'11.581"W	3006.60	287.236	0.00
10522.00†	90.791	315.022	7502 21	3017.60	961.60	-2942.26	638154.26	430724 70	32°11'00 207"N	103°53'12.400"W	i 3095 41	288.099	0 00
10622 00†	90.791	315.022	7500.83	3114.60	1032 33	-3012.94	638083 59	430795.43	32°11'00.910"N	103°53'13.219"W	3184 89	288 913	0 00
10722.00†	90.791	315:022	7499.45	3211.60	1103.06	-3083.61	638012.92	430866.15	32°11'01.613"N	103°53'14!037"W	3274.97	289.683	0.00
10822.00†	90.791	315.022	7498.07	3308.60	1173.79	-3154.29	637942.25	430936.88	32°11'02.316"N	103°53'14.856"W	3365 61	290 412	0 00
10922 00†	90.791	315.022	7496.69	3405.60	1244.53	-3224.97	637871.57	431007.60	32°11'03.019"N	103°53'15.675"W	3456 77	291 102	0 00
11022.00†	90.791	315.022	7495.31	3502.60	1315.26	-3295.65	637800.90	431078.33	32°11'03.721"N	103°53'16.494"W	3548.40	291.756	0 00
11122.00†	90.791	315.022	7493.93	3599.60	1385.99	-3366.32	637730.23	431149.06	32°11'04.424"N	103°53'17.313"W	3640.48	292.378	0.00
- 11222:00†	* : .90.791	315:022	7492.55	3696.60	-1456.72	-3437:00	- 637659.56	431219:78	32°11'05'127"N		3732.96	292.969	: 0.00i



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Randaran	ROTTA STEET TO THE STEET OF THE		
Operator	BOPCO, L.P.	Slot	No.363H SHL
Area	Eddy County, NM	Well	No.363H
Field	Poker Lake Unit	Wellbore	No.363H PWB
Facility	Poker Lake Unit No. 363H		

WELLPAT	H DATA (142 static	ons) †=	interpola	ted/extra	polated st	ation	** *	Palance Control of the Control of th	general desputer plants of the control of the property of the property of the control of the property of the control of the co	THE RESIDENCE OF THE PROPERTY	Commence of the sea property of the season 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]
11322.00†	90.791	315.022	7491.17	3793.60	1527.45	-3507.68	637588.88	431290.51	32°11'05.830"N	103°53'18.951"W	3825.82	293.531	0 00
11422.00†	90.791	315.022	7489.79	3890 59	1598.18	-3578.35	637518.21	431361.23	32°11'06.533"N	103°53'19.770"W	3919.03	294 067	0.00
11522.00†	90.791	315.022	7488.41	3987.59	1668.91	-3649.03	637447.54	431431.96	32°11'07.235"N	103°53'20.589"W	4012.57	294.577	0.00
11622.00†	90.791	315.022	7487.03	4084.59	1739.64	-3719.71	637376.87	431502.69	32°11'07.938"N	103°53'21.408"W	4106.41	295.065	0.00
11722.00†	90.791	315.022	7485.65	4181.59	1810:37	-3790:39	.×637306.20¹	431573.41	"> 32°11'08:641"N	103°53'22.227"W	4200.53	295.530	<i>5</i> -: 0.00
11822.00†	90.791	315.022	7484.27	4278.59	1881.10	-3861.06	637235.52	431644.14	32°11'09 344"N	103°53'23.046"W	4294.92	295.975	0 00
11922.00†	90.791	315.022	7482.89	4375.59	1951.83	-3931.74	637164.85	431714.86	32°11'10 047"N	103°53'23.865"W	4389.56	296.401	0 00
12022.00†	90.791	315.022	7481.51	4472.59	-2022.56	-4002.42	637094.18	431785.59	32°11'10.749"N	103°53'24.684"W	4484.43	296 809	0.00
12122.00†	90.791	315.022	7480.13	4569 59	2093.29	-4073.09	637023.51	431856.31	32°11'11.452"N	103°53'25.503"W	4579.52	297.200	0 00
12222.00†	90.791	*315.022	7478.75	4666.59	2164.02	-4143:77	636952.83	431927.04	32°11'12.155"N	. 103°53'26.322";W	4674.81	297.575	0.00
12322.00†	90.791	315.022	7477.37	4763.59	2234.75	-4214 45	636882.16	431997.77	32°11'12.858"N	103°53'27.141"W	4770.29	297.935	0.00
12422.00†	90.791	315.022	7475 99	4860.59	2305.49	-4285.13	636811.49	432068.49	32°11'13.561"N	103°53'27.960"W	4865.96	298 281	0 00
12522.00†	90.791	315.022	7474.61	4957.59	2376.22	-4355.80	636740.82	432139.22	32°11'14.263"N	103°53'28.779"W	4961.80	298.614	0.00
12622.00†	90.791	315.022	7473.23	5054 59	2446.95	-4426.48	636670.14	432209.94	32°11'14.966"N	103°53'29.598"W	5057 79	298.934	0.00
12722.00†	90.791	2:315:022	7471:85	.4.51-59	2517.68	-4497.16	636599.47	432280.67	*32°1:1'15'669"N	्रिका 103°53'30.41 7 ''W	5153.94	299.242	.0 00
12822.00†	90.791	315.022	7470.47	5248.59	2588.41	-4567.83	636528.80	432351.39	32°11'16.372"N	103°53'31.236"W	5250.24	299 538	0 00
12922.00†	90.791	315.022	7469.09	5345.59	2659.14	-4638.51	636458.13	432422.12	32°11'17.074"N	103°53'32.055"W	5346.66	299.825	0.00
13022.00†	90.791	315.022	7467.71	5442.59	2729.87	-4709.19	636387.46	432492.85	32°11'17.777"N	103°53'32.874"W	5443.22	300.100	0.00
13122.00†	90.791	315.022	7466.33	5539 59	2800.60	-4779.87	636316.78	432563.57	32°11'18.480"N	103°53'33.693"W	5539.90	300.367	0.00
13222.00†	90.791	315.022	√37464.95	5636.59	2871.33	-4850.54	636246:11	432634:30	32°11'19'183"N	: 103°53'34.512"W	5636:69	300.624	√ ≥i0.00
13322.00†	90.791	315.022	7463.57	5733 59	2942.06	-4921.22	636175.44	432705.02	32°11'19 886"N	103°53'35 331"W	5733 60	300 872	0.00
13363.44	90.791	315.022		5773.78	2971.37	4950.51	636146.15	432734.33	32°11'20.177"N	45, 103253'35.670"W	5773.78	300.973	0.00



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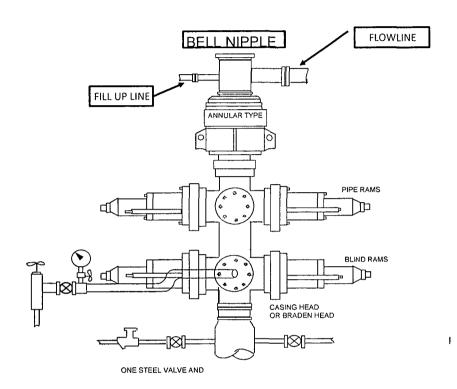


RORDRO	SCEWARL PARTITION		
Operator	BOPCO, L.P.	Slot	No.363H SHL
Area	Eddy County, NM	Well	No.363H
Field	Poker Lake Unit	Wellbore	No.363H PWB
Facility	Poker Lake Unit No. 363H		

TARGETS									
Name	MD	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape
	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			
1) No.363H PBHL	13363.44	7463.00	2971.37	4950.51	636146.15	432734.33	32°11'20:177"N	103°53[35:670":Ŵ	
1) 110.30311 1 15112)

SURVEY PROGI	RAM - Ref Wellbore:	No.363H PWB Ref Wellpath: Rev-C.0		
Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	Wellbore
[ft]	[ft]	·		
22.00	13451.67	NaviTrak (Standard)		No.363H PWB

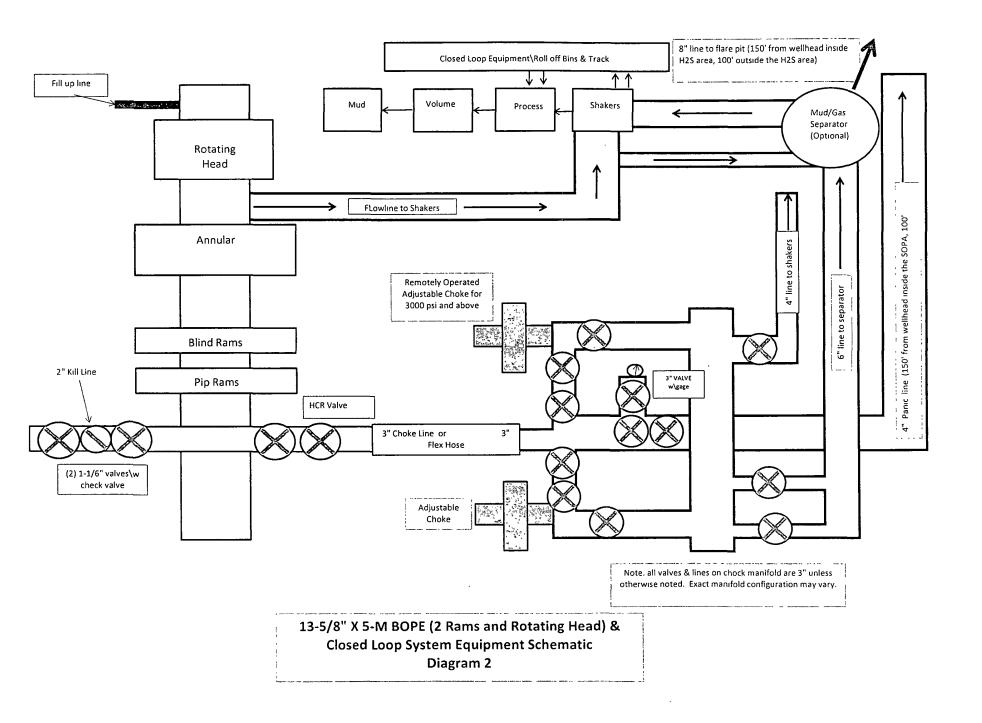
BOPCO, L. P. 13 5/8" X 5-M WP BOPE WITH 5-M WP ANNULAR

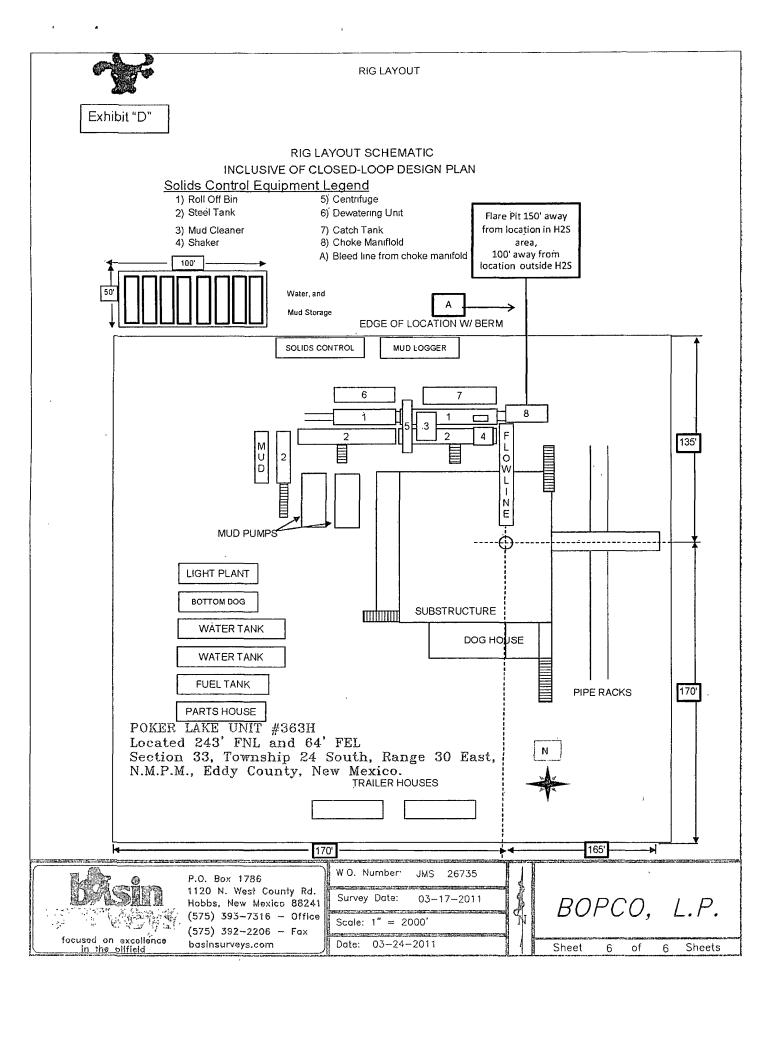


THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- 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





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)
- 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) 2) Location of H2S alarms 3) Location of briefing areas. 6) Location of caution and/or danger signs. (6) H2S: caution (7) Location of Breathing Equipment 📆 🕆 signs 🖟 SOLIDS CONTROL MUD LOGGER Access Road (1) H2S Windsock Derrick Stand M U D 0 MUD PUMPS LIGHT PLANT BOTTOM DOG (3) H2S Briefing USSTRUCTURE Area WATER TANK DOG HOUSE (2) H2S Alarm WATER TANK FUEL TANK E RACKS PARTS HOUSE Prevailing winds from the (7) Breathing SW to the NE (3) Primary H2S Briefing Area Secondary egress TRAILER HOUSES V-Door South

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- B. Objective
- C. Discussion of Plan

II. Emergency Procedures

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- B. Emergency Procedures Implementation
- C. Simulated Blowout Control Drills

III. Ignition Procedures

- A. Responsibility
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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).
- 3. 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:

minutes,

seconds.

Total Time to Complete Assignment:

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 (H_2S) 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 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 H_2S 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 H_2S .

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 H₂S circulated to the surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S 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 P	ersonnel		
	Name	Title	Cell Phone Number
	Stephen Martinez	Drilling Supt.	
	Buddy Jenkins	Assistant Supt	432-238-3295
	Bill Dannels	Engineer	432-638-9463
	Pete Lensing		432-557-7157
	Charles Warne	Engineer	432-894-1392
	Artesia		
	Ambulance		911
	State Police		575-746-2703
	City Police		575-746-2703
	Sheriff's Office		575-746-9888
	Fire Department		575-746-2701
	Local Emergency Pla	nning Committee	575-746-2122
		ervation Division	
	Carlsbad		
	Ambulance	<u>,</u>	911
	State Police		575-885-3137
	City Police		575-885-2111
	Sheriff's Office		575-887-7551
	Fire Department		575-887-3798
	Local Emergency Pla	nning Committee	575-887-6544
	US Bureau of Land M	anagement	575-887-6544
	New Mexico Emergen	ncy Response Commission (Santa F	
	24 Hour		505-827-9126
		ergency Operations Center	
	National Emergency I	Response Center (Washington, DC)	800-424-8802
	Other		
	Wild Well Control	4	32-550-6202 (Permian Basin)
	Cudd PressureContro	ol432-580-3544 or 4	32-570-5300 (Permian Basin)
	Flight For Life – 4000	24th St. Lubbock, Texas	806-743-9911
	Aerocare - R3, Box 49	9F, Lubbock, Texas	806-747-8923
	Med Flight Air Amb -	2301 Yale Blvd SE #D3, Albuq., NM	505-842-4433
		- 2505 Clark Carr Loop SE, Albuq., I	NM505-842-4949
	Indian Fire and Safety	y – 3317 NW Cnty Rd, Hobbs, NM	575-393-3093
	Total Safety – 3229 In	ndustrial 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 Name	Chemical Formula	Specific Gravity (SC=1)	Threshold Limit (1)	Hazardous Limit (2)	Lethal Concentration (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

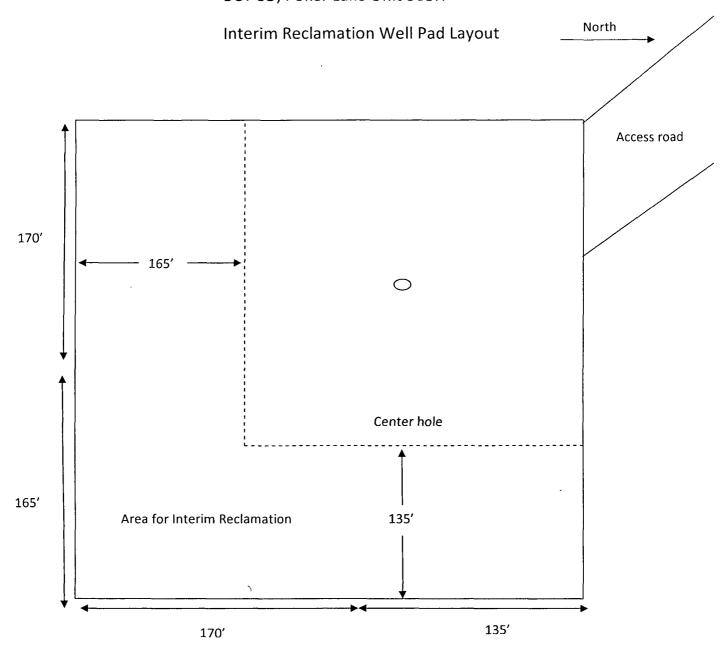
DO NOT PANIC - REMAIN CALM - THINK

- 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.
- 4. 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.

Diagram 3

BOPCO, Poker Lake Unit 363H



Location On-Site Notes

On May 15th 2012, a BLM on-site meeting was held with Cecil Watkins - BOPCO L.P., Justin Frye – BLM and Robert Gomez - Basin Surveys. The Poker Lake Unit 363H was evaluated. The location was approved at a surface location located at 243' FNL and 64' FEL of Sec 33, T24S-R30E. V-Door South.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
BOPCO LP
NM-02862
Poker Lake Unit #363H
0243' FNL & 0064' FEL
2500' FNL & 0350' FWL sec. 28
Section 33, T. 24 S., R 30 E., NMPM
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.

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