RECEIVEDTARY'S POTASH

OCD Artesia

ATS-12-911 EA-12-1232

SEP 00 CO.			1		
(April 2004) NMOCD ARTESIA UNITED STATES			FORM APPROV OMB No 1004-0 Expires March 31	137	
DEPARTMENT OF THE I	5 Lease Serial No. BHL: NM 030453, SL: LC 068905				
BUREAU OF LAND MAN. APPLICATION FOR PERMIT TO I	6 If Indian, Allotee or Trib	pe Name			
la. Type of work: DRILL REENTE	7 If Unit or CA Agreement, Poker Lake Unit NM				
lb. Type of Well Oli Well Gas Well Other	✓ Single Zone Multip	ole Zone	8. Lease Name and Well No Poker Lake Unit 339		
Name of Operator BOPCO, L. P.	<7601	7972	9 API Well No.	40/250	
3a Address P. O. Box 2760 Midland, TX 79702	3b Phone No. (include area code) 432-683-2277	· · · · · · · · · · · · · · · · · · ·	10 Field and Pool, or Explora Poker Lake (Delawa	tory re) Southwest < 9	
4. Location of Well (Report location clearly and in accordance with arry	y State requirements.*)		11 Sec , T. R. M. or Blk. and S		
At surface SWSE, UL O, 265' FSL & 2010' FE At proposed prod zone 1400' FSL&2300' FEL,Sec24-T24S-	Sec 14, T24S-R30E, Mer, NMP				
Distance in miles and direction from nearest town or post office* 20 miles East of Malaga			12 County or Parish Eddy	13 State NM	
5 Distance from proposed* 265' location to nearest property or lease line, ft (Also to nearest drig, unit line, if any)	16 No of acres in lease	17. Spacin	g Unit dedicated to this well		
8 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 381'	19 Proposed Depth 14,148' MD/7,931' TVD		BIA Bond No. on file 000050		
Elevations (Show whether DF, KDB, RT, GL, etc.) 3,426' GL	22 Approximate date work will star 01/01/2013	rt*	23 Estimated duration 30 Days		
	24. Attachments				
he following, completed in accordance with the requirements of Onshore	e Oil and Gas Order No 1, shall be a	ttached to th	is form.		
Well plat certified by a registered surveyor A Drilling Plan A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office)	Lands, the ltem 20 above) 5 Operator certific	ation specific info	ormation and/or plans as may be		
25 Signature Lemmy Broll	Name (Printed/Typed) Jeremy Braden		Date	-16-12	
Engineering Assistant					
Approved by (Signature) /s/ Jesse J. Juen	Name (Printed/Typed) S J	esse J	. Juen Date Al	IG 2 4 2012	
STATE DIRECTOR	Office	MM C	TATE OFFICE		
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	1		ject lease which would entitle the		

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

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

BOPCO, L.P.

P. O. Box 2760 Midland, Texas 79702

432-683-2277

FAX-432-687-0329

June 26, 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 #339H

265' FSL, 2010' FEL, SEC. 14, 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

Division Drilling Superintendent

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

DISTRICT III

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. Santa Fe, New Mexico 87505

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

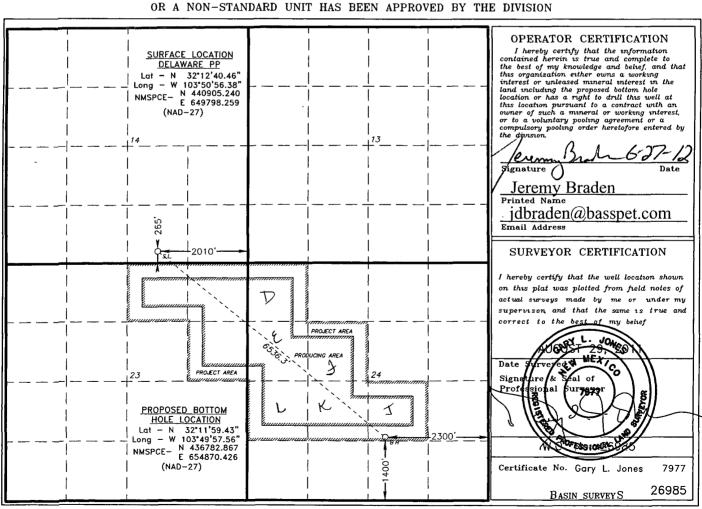
WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API	Number	1/0		Pool Code						
130-015	- 40c	257	9604	7	Poker Lake (Delaware) Southwest					
Property					Propert	-			Well Nu	
306402	7			P	OKER LA	KE	UNIT		339⊦	1
OGRID N	0.				Operato	r Nam	e		Elevat	
260737					BOPCO), L.I	P		342	6′
•	Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/West line	County
0	14	24 S	30 E		265		SOUTH	2010	EAST	EDDY
			Bottom	Hole Loc	cation If	Diffe	rent From Sur	face		- "
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/West line	County
J	24	24 S	30 E		140	0	SOUTH	2300	EAST	EDDY
Dedicated Acre	Dedicated Acres Joint or Infill Consolidation Code Order No.									
360								141	48 8/24	

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

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



Surface casing is to be set into the Rustler below all fresh water sands at an approximate depth of 906' and cement circulated to surface.

7" casing will be set at approximately 7.941' MD, 7,755' 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 068905

Middle lease NM 030452

Bottom Hole Lease Numbers - Federal Lease: NM 030453

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 339H

LEGAL DESCRIPTION - SURFACE: 265' FSL, 2010' FEL, Section 14, T-24S, R-30E, Eddy County, NM. BHL: 1400' FSL, 2300' FEL, Section 24, T-24S,R-30E, 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 3445' (estimated)

GL 3426'

Formation Description	Est from	Est (MD)	SUB-SEA TOP	BEARING -
T/Fresh Water	505'	505'	+ 2,940'	Fresh Water
			· '	_
T/Rustler	819 '	819'	+ 2,626'	Barren
T/Salado	916'	916'	+ 2,529'	Barren
Lamar	4,077'	4,077'	- 632'	Oil/Gas
Ramsey	4,124'	4,124'	- 679'	Oil/Gas
Cherry Canyon	4,985'	4,985'	- 1,540'	Oil/Gas
Brushy Canyon	6,297'	6,297'	- 2,852'	Oil/Gas
KOP	7,241'	7,241'	- 3,796'	Oil/Gas
LBC	7,609'	7,626'	- 4,164'	Oil/Gas
EOC	7,819'	8,182'	- 4,374'	Oil/Gas
Target #1	7,816'	8,079'	- 4,371'	Oil/Gas
TD Horizontal Hole	7,931'	14,148'	- 4,486'	Oil/Gas

POINT 3: CASING PROGRAM

TYPE	INTERVAL MD	HOLE - SIZE	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' – 906'	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' – 4,097'	12-1/4"	Intermediate	. New
_7", 26#, N-80, Buttress or 8rd LTC*	0 – 7,941'	8-3/4"	Production	New

Completion System				
4-1/2", 11.6#, HCP-110 8rd. LT&C,	7,891' — 14,138'	6-1/8"	Completion System	New
BTC, or Ultra Flush			,	

^{*} Depending on availability.

CASING DESIGN SAFETY FACTORS:

TYPE	TENSION	COLLAPSE	BURST
13-3/8", 48#, H-40, 8rd, ST&C*	8.61	1 63	1 66
13-3/8", 54.5#, J-55, 8rd, STC*	20 10	2.56	2.62
9-5/8", 40#, N-80, 8rd, LT&C*	5.33	1.31	2.90 ·
9-5/8", 40#, J-55, 8rd; LT&C*	4.55	1.18	1.73
7", 26#, N-80, Buttress*	3.47	1.28	1 67
7", 26#, N-80, 8rd, LTC*	2.98	1.23	1.67

Completion System		Cara Lanada da Caraga	
4-1/2", 11.6#, HCP-110 8rd. LT&C,	3.52	2.01	2.42
4-1/2", 11.6#, HCP-110 BTC, or	3.90	2.80	2 36
Ultra Flush	3.03	1.69	2.42

^{*} Depending on availability.

DESIGN CRITERIA AND CASING LOADING ASSUMPTIONS:

SURFACE CASING - (13-3/8")

Burst

Burst

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 on a production easing string.

the protective string being used as a production casing string.

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.

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.

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 14,148' MD (7,931' TVD) and max surface pressure should be +/-1967 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. 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

DEPTH		MUD TYPE	<u>WEIGHT</u>	• FV	P <u>V</u>	⊘ <u>ΥΡ</u>	FL *	<u>Ph</u>
0 -906'	FW Spud Mud	8.5 – 9.2	38-70	NC	NC	NC	10.0	
906' - 4,097'	Brine Water	9.8 – 10.2	28-30	NC	NC	NC	9.5 – 10.5	
4,097' ~ 7,941'	FW/Gel	8.7 – 9.0	28-36	NC	NC	NC	9.5 – 10.0	
7,941'-14,148'	FW/Gel/Starch	8.7 – 9.0	28-36	NC	NC	<100	9.5 – 10.0	

NOTE: May increase vis for logging purposes only.

POINT 6: TECHNICAL STAGES OF OPERATION

A) TESTING

None anticipated.

B) LOGGING

See 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	FTOF	TYPE	GALS/SX	PPG	, FT³/SX
SURFACE:	SXS	SAFILLS 				
Lead: 0' – 606'	491	606	Class C +2% CACL + 4% Bentonite + 0.25 LB/SK Cello Flake + 3 lb/sk LCM-1	8.69	13.50	1.75
Tail: 606' – 906'	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' - 3,597'	1106	3597	EconoCEM HLC + 5% CaCl + 5#/sk Gilsonite	9.32	12.90	1.85
Tail: 3,597' – 4,097'	271	500	HalCem C	6.34	14.80	1.33
Production						-
Stage 1:						
Lead: 5,000'7,059'	193	2241	Tuned Light + 0.75% + CFR-3 + 1.5#/sk CaCl	12.41	10.20	2.76
Tail: 7,441' – 7,941'	116	700	VersaCem-PBSH2 + 0.4% Halad-9	8.76	13.0	1.65
DV Tool @ 5,000'						
Stage 2:						
Lead: 3597' - 4,500'	100	903	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 14,148'. The top of the Completion System will be set at approximately 7,891'. 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 7,241' at which point a directional hole will be kicked off and drilled at an azimuth of 129.102 degrees, building angle at 12.00 deg/100' to 60 degrees at a TVD of 7,655' (MD 7,741'). This angle and azimuth will be maintained for 200' to a measured depth of 7,941' (7,755' 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 129.102 degrees, building to an inclination of 88.914 degrees to a measured depth of 14,148', TVD 7,931'. 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 3712 psi (max) or MWE of 9.0 ppg is expected. Lost circulation may exist in the Delaware Section from 4,077'-7,931' TVD.

POINT 8: OTHER PERTINENT INFORMATION

A) Auxiliary Equipment

Upper and lower kelly cocks. Full opening stab in valve on the rig floor.

B) Anticipated Starting Date

Upon approval

30 days drilling operations

14 days completion operations

JDB

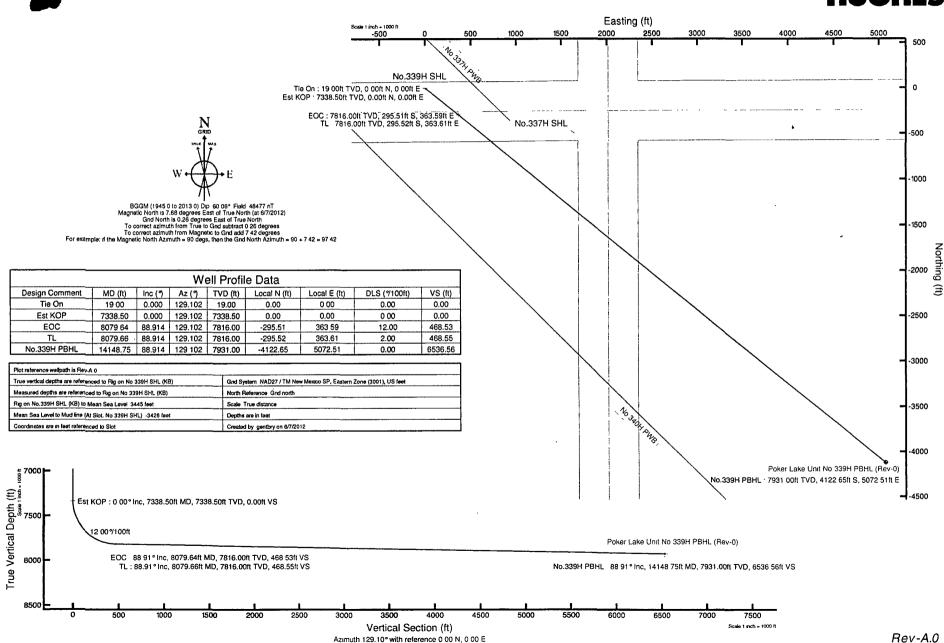


BOPCO, L.P.

Location: Eddy County, NM Field: Poker Lake Unit

Slot: No.339H SHL Well: No.339H Wellbore; No.339H PWB Facility: Poker Lake Unit No. 339H







Planned Wellpath Report Rev-A.0 Page 1 of 5



RIBER	ENCE WEELPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No.339H SHL
Area	Eddy County, NM	Well	No.339H
Field	Poker Lake Unit	Wellbore	No.339H PWB
Facility	Poker Lake Unit No. 339H		

REPORTSEMU	PINFORMATION		
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.999935	Report Generated	6/7/2012 at 12:35:22 PM
Convergence at slot	0.26° East	Database/Source file	WA Midland/No.339H_PWB.xml

WELLPATHLOCATION									
	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	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W			
Facility Reference Pt			649798.26	440905.24	32°12'40.456"N	103°50'56.377"W			
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W			

MEDICAMINDATIO	M		
Calculation method	Minimum curvature	Rig on No.339H SHL (KB) to Facility Vertical Datum	19.00ft
Horizontal Reference Pt	Slot	Rig on No.339H SHL (KB) to Mean Sea Level	3445.00ft
Vertical Reference Pt	Rig on No.339H SHL (KB)	Rig on No.339H SHL (KB) to Mud Line at Slot (No.339H SHL)	19.00ft
MD Reference Pt	Rig on No.339H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	129.10°



Planned Wellpath Report Rev-A.0 Page 2 of 5



RIDIDIDIR	ENCEWELLPATHIDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No.339H SHL
Area	Eddy County, NM	Well	No.339H
Field	Poker Lake Unit	Wellbore	No.339H PWB
Facility	Poker Lake Unit No. 339H		

WELLP	ATH DA'	TA (153	station	$s) \dagger = i$	interp	olat	ed/extrapo	lated stati	on			
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	129.102	0.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	,
19.00	0.000	129.102	19.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W		Tie On
119.00†	0.000	129.102	119.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
219.00†	0.000	129.102	219.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
319.00†	0.000	129.102	*319.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W.	0.00	
419.00†	0.000	129.102	419.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
519.00†	0.000	129.102	519.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
619.00†	0.000	129.102	619.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
719.00†	0.000	129.102	719.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
819.00†	0.000	129.102	819.00	0.00	0.00;	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	Rustler 🐣 .
916.00†	0.000	129.102	916.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	Salado
919.00†	0.000	129.102	919.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
1019.00†	0.000	129.102	1019.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
1119.00†	0.000	129.102	1119.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
1219.00†	0.000	129.102	[1219.00]	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
1319.00†	0.000	129.102	1319.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
1419.00†	0.000	129.102	1419.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
1519.00†	0.000	129.102	1519.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	` 103°50'56.377"W	0.00	Ü
1619.00†	0.000	129.102	1619.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
.1719.00†	0.000	129.102	1719.00	0.00	:0.00	0.00	649798.26	440905.24	232°12'40.456"N	103°50'56.377";W	0.00	
1819.00†	0.000	129.102	1819.00	0.00	0.00	0.00	649798.26	.440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
1919.00†	0.000	129.102	1919.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
2019.00†	0.000	129.102	2019.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
2119.00†	0.000	129.102	2119.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
.2219.00†	0.000	129.102	2219.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N°	*103°50'56.377"W	0.00	建筑设置
2319.00†	0.000	129.102	2319.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
2419.00†	0.000	129.102	2419.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
2519.00†	0.000	129.102	2519.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
2619.00†	0.000	129.102	2619.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
2719.00†	0.000	129.102	take of the tree of 12	0.00	0.00	0.00	, 649798.26	440905.24	N. 1	103°50'56.377"W		
2819.00†	0.000	129.102	2819.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
2919.00†	0.000	129.102	2919.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
3019.00†	0.000	129.102	3019.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
3119.00†	0.000	129.102	3119.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
3219.00†	0.000	129.102	The second second second second	, _{je} .0.00	.00.00	0.00	The state of the s	440905.24	32°,12'40,456"N	_103°50'56.377"W	0.00	
3319.00†	0.000	129.102	3319.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
3419.00†	0.000	129.102	3419.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
3519.00†	0.000	129.102	3519.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
3619.00†	0.000	129.102	3619.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	مستسسست المالية
3719:00†		-	3719.00	- PR	0.00	0.00	649798.26	440905.24	Photoday a whole on the advantage to and I	103°50'56.377"W	5.0.00	
3819.00†	0.000		3819.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50′56.377"W	0.00	
3919.00†	0.000	129.102	3919.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50′56.377″W	0.00	
4019.00†	0.000	129.102	4019.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
4077.00†	0.000	129.102	4077.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	L	Lamar
4119:001	0.000	.129.102	4119.00	0.00	0.00	0.00	649798:26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	ar" , 65,2 , 18" ,



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REDER	ENCEWELLPATHUDENTHE CATION		
Operator	BOPCO, L.P.	Slot	No.339H SHL
Area	Eddy County, NM	Well	No.339H
Field	Poker Lake Unit	Wellbore	No.339H PWB
Facility	Poker Lake Unit No. 339H		

WELL	PATH D	ATA (153 sta	tions)	† = in	terpol	ated/extr	apolated	station	and the second contract of the second contrac		
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
				[ft]								
4124.00†	l	129.102	CONTRACTOR	0.00	0.00					103°50'56.377"W		Ramsey
4219.00†	0.000	129.102	4219.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
4319.00†	0.000	129.102	4319.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
4419.00†		129.102		0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
4519.00†	0.000	129.102	4519.00	0.00	0.00					103°50'56.377"W	0.00	
4619.00†	0.000	129.102	4619.00	0.00	0.00					103°50'56.377"W	0.00	
4719.00†	0.000	129.102	4719.00	0.00	0.00					103°50'56.377"W	0.00	
4819.00†	0.000	129.102	4819.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
4919.00†	0.000	129.102	4919.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
4985.00†	0.000	129.102	4985.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N:	103°50'56.377"W	0.00	Cherry Canyon
5019.00†	0.000	129.102	5019.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	
5119.00†	0.000	129.102	5119.00	0.00	0.00	0.00	649798.26	440905.24	32°12'40.456"N	103°50'56.377"W	0.00	,
5219.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
5319.00+	0.000	129.102	5319.00	0.00	0.00		<u> </u>			103°50'56.377"W	0.00	
5419.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
5519.00†		129.102		0.00	0.00	1				103°50'56.377"W	0.00	
5619.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
5719.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
5819.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
5919.00†		129.102		0.00	< 0.00					103°50'56.377".W	5	
6019.00†		129.102	The state of the s	0.00	0.00					103°50'56.377"W	0.00	Philip District the Comment of the C
6119.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
6219.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
6297.00†		129.102	-	0.00	0.00					103°50'56.377"W	·	Brushy Canyon
6319.00†		129.102		0.00	0.00					103°50'56,377"W		Car Section 1
6419.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
6519.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
6619.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
6719.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	***************************************
6819:00†			6819.00	0.00						1.03°50'56:377"W	0.00	Andrew Control of the
6919.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	Austral (Malife) Salter
7019.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
7119.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	-
7219.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
7319.00†		129.102		0.00	0.00					103°50'56.377"W	0.00	
7338.50	* * * * * * * * * * * * * * * * * * * *	129.102		0.00	0.00					103°50'56.377"W		Est KOP
7419.00†		129.102		6.77	-4.27					103°50'56.316"W	12.00	2.76
7519.00†		129.102		33.71						103°50'56.074"W	12.00	
7619.00†		129.102		80.03		62 11	649860 36	440854 77	32°12'30 054"N	103°50'55.657"W	12.00	
7626.06†			7609.00							103°50'55.622"W		Lower Brushy Canyon 8A
7719.00†		129.102		143.73						103°50'55.084"W	12:00	LAMEL DIVINITY CHINGIT BA
7819.00†		129.102								103°50'54.380"W	12.00	
7919.00†										103°50'54.380"W		
		129.102									12.00	
8019.00†				400.14	205.51	262.50	650161.97	440600075	34-14 37.893 N	103°50'52.705"W	12.00	FOC
8079.64		129:102	1010.00	400.22	-293.3 l	205.29	ักวิกำได้ไ"ชิว	440007:10¢	24:12 9 / .3 10 "N	[U3"]U32:101"W.	12.00	EOC



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REFER	ENCE WELLPATHIDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No.339H SHL
Area	Eddy County, NM	Well	No.339H
Field	Poker Lake Unit	Wellbore	No.339H PWB
Facility	Poker Lake Unit No. 339H		

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8079.66		129.102		468.55	-295.52	363.61	650161.84	440609.74	32°12'37.516"N	103°50'52.161"W	2.00	TL
8119.00†		129,102		507.89	-320.33	394.13	,	440584.93	32°12'37.269"N	103°50'51.807"W	0.00	
8219.00†		129.102		607.87	-383.39	471.72		440521.88	32°12'36.641"N	103°50'50.907"W	0.00	
8319.00†		129.102		707.85	-446.45		650347.53	440458.82	32°12'36.014"N	103°50'50.008"W	0.00	
8419.00†					-509.51				32°12'35.386"N	103°50'49:108"W	0.00	
8519.00†		129.102		907.82	-572.56	704.49	650502.70	440332.71	32°12'34.759"N	103°50'48.208"W	0.00	in told offers
8619.00+		129.102		1007.80	-635.62	782.08	650580.28	440269.66	32°12'34.131"N	103°50'47.309"W	0.00	
8719.00†		129.102		1107.78	-698.68	859.66	650657.86	440206.60	32°12'33.504"N	103°50'46.409"W	0.00	
8819.00+		129.102		1207.76	-761.74	937.25	650735.45	440143.55	32°12'32.876"N	103°50'45,509"W	0.00	
'8919.00†				1307.75		<u> </u>	650813.03			103°50'44.609"W	0.00	
9019.00†		129.102		1407.73		1092.43		440017.44	32°12'31.622"N	103°50'43.710"W	0.00	يتك المستعدد عنده
9119.00†		129.102		1507.71				439954.38	32°12'30.994"N	103°50'42.810"W	0.00	
9219.00†		129.102		1607.69			651045.78	439891.33	32°12'30.367"N	103°50'41.910"W	0.00	
9319.00†		129.102					651123.36	439828.27	32°12'29.739"N	103°50'41.011"W	0.00	
9419.00†							651200.95		32°12'29.112"N	\$103°50'40.1111",W	0.00	*******
9519.00†	Production of the Name of Street, Stre	129.102	the set state to be					439702.16	32°12'28.484"N	103°50'39.212"W	0.00	
9619.00†	88.914	129.102		2007.62	-1266.22	1557.96		439639.11	32°12'27.857"N	103°50'38.312"W	0.00	
9719.00†	88.914				-1329.28	1635.55		439576.05	32°12'27.229"N	103°50'37.412"W	0.00	
9819.00†		129.102					651511.28	439513.00	32°12'26.602"N	103°50'36.513"W	0.00	
9919.00†				·		<u> </u>	651588.86		32°12'25.974"N°	103 50 30.513 W	0.00	
10019.00†		129.102					651666.44	439386.89	32°12'25.347"N	103°50'34.713"W	0.00	لأ ألأ م
10119.00†		129.102		2507.53	-1518.46				32°12'24.719"N			
10219.00†		129.102				1945.90 2023.49	651744.03	439323.83	32°12'24.092"N	103°50'33.814"W 103°50'32.914"W	0.00	
10219.00†		129.102			-1044.57		651899.19	439200.78	32°12'23.464"N	103°50'32.914 W	0.00	
										103°50'31.1'15"W		
10519.00		129.102					652054.36		32°12'22.209"N	103°50'30.215"W	0.00	Charter Spirit
10619.00†	88.914			3007.44			652131.94	439008.56	32°12'21.582"N	103°50'29.316"W	0.00	
10719.00†		129.102		3107.42		2411.43		438945.50	32°12'20.954"N	103°50'28.416"W	0.00	
10819.00†					-2022.93			438882.45	32°12'20.327"N	103°50'27.516"W	0.00	
10919.00†							652364.69		32°12'19.699"N:	103 3027.310 W		
11019.00†		129.102					652442.27	438756.34	32°12'19.072"N	103°50'25.717"W	0.00	
11119.00†		129.102		3507.35		2721.78		438693.28	32°12'18.444"N	103°50'24.818"W	0.00	
11219.00†		129.102					652597.44	438630.23	32°12'17.817"N	103°50'23.918"W	0.00	
11319.00†		129.102		3707.31				438567.17	32°12'17.189"N	103°50'23.018"W	0.00	
11419.00†							652752.60		32°12'16.561"N	103°50'22.119"W	÷0:00	
11519.00†		129.102		3907.28	37100 30 40 0 40		<u> </u>	438441.06	32°12'15.934"N	103°50'21.219"W	0.00	
11619.00†			7883.07	4007.26			652907.77	438378.00	32°12'15.306"N	103°50'20.320"W	0.00	
11719.00†		129.102						438314.95	32°12'14.679"N	103°50'19.420"W	0.00	
11819.00†							Andrews and the State of the St		32°12'14.051"N	103°50'18.520"W	0.00	
11919.00†									32°12'13.424"N	103°50'17.621"W,	0:00	
12019.00†									32°12'13.424'N	103°50'16.721"W	0.00	
12119.00†									32°12'12.169"N	103°50'15.822"W	0.00	
12219.00†									32°12'11.541"N	103°50'14.922"W	0.00	
12319.00†										103°50'14.922 W	0.00	
									32°12'10:914 N		0.00	



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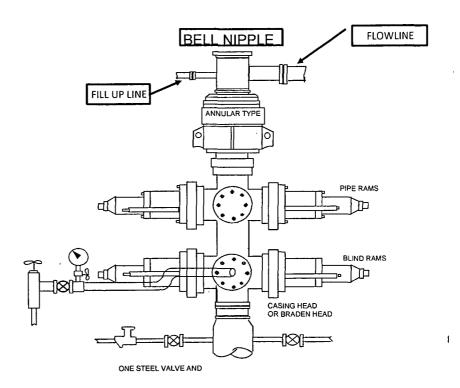
REFER	ENCEWELLPATHIDENTIFICATION.		
Operator	BOPCO, L.P.	Slot	No.339H SHL
Area	Eddy County, NM	Well	No.339H
Field	Poker Lake Unit	Wellbore	No.339H PWB
Facility	Poker Lake Unit No. 339H		

WELLP	ATH DA	TA (15	3 statio	ns) †	= interp	olated/	extrapola	ted statio	n			
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12519.00†	88.914	129.102	7900.12	4907.10	-3094.94	3808.01	653606.02	437810.51	32°12'09.659"N	103°50'12.224"W	0.00	
12619.00†	88.914	129.102	7902.01	5007.08	-3158.00	3885.60	653683.60	437747.45	32°12'09.031"N	103°50'11.324"W	0.00	
12719.00†	88.914	129.102	7903.91	5107.06	-3221.06	3963.19	653761.18	437684.40	32°12'08.404"N	103°50'10.424"W	0.00	
12819.00†	88.914	129.102	7905.80	5207.05	-3284.12	4040.78	653838.77	437621.34	32°12'07.776"N	103°50'09.525"W	0.00	
12919.00†	88.914	129.102	7907.70	5307.03	<u>*3347.18</u>	4118.37	653916.35	437558.29	32°12'07.148"N	103°50'08.625"W	0.00,	
13019.00†	88.914	129.102	7909.59	5407.01	-3410.24	4195.96	653993.93	437495.23	32°12'06.521"N	103°50'07.726"W	0.00	
13119.00†	88.914	129.102	7911.49	5506.99	-3473.30	4273.54	654071.52	437432.18	32°12'05.893"N	103°50'06.826"W	0.00	
13219.00†	88.914	129.102	7913.38	5606.97	-3536.36	4351.13	654149.10	437369.12	32°12'05.266"N	103°50'05.927"W	0.00	
13319.00†	88.914	129.102	7915.28	5706.96	-3599.41	4428.72	654226.68	437306.07	32°12'04.638"N	103°50'05.027"W	0.00	
13419.00†	88.914	129.102	7917.17	5806.94	-3662.47	4506.31	654304.26	437243.01	32°12'04'.011"N	103°50'04'.128",W	0.00	
13519.00†	88.914	129.102	7919.07	5906.92	-3725.53	4583.90	654381.85	437179.96	32°12'03.383"N	103°50'03.228"W	0.00	
13619.00†	88.914	129.102	7920.96	6006.90	-3788.59	4661.48	654459.43	437116.90	32°12'02.756"N	103°50'02.329"W	0.00	
13719.00†	88.914	129.102	7922.86	6106.88	-3851.65	4739.07	654537.01	437053.85	32°12'02.128"N	103°50'01.429"W	0.00	
13819.00†	88.914	129.102	7924.75	6206.87	-3914.71	4816.66	654614.60	436990.79	32°12'01.500"N	103°50'00.530"W	0.00	
13919.00†	88.914	129.102	7926.65	6306.85	*3977.77	4894.25	654692.18	436927.74.	32°12'00.873"N	103°49'59.630"W	0.00	
14019.00†	88.914	129.102	7928.54	6406.83	-4040.83	4971.84	654769.76	436864.68	32°12'00.245"N	103°49'58.731"W	0.00	
14119.00†	88.914	129.102	7930.44	6506.81	-4103.89	5049.43	654847.34	436801.63	32°11'59.618"N	103°49'57.831"W	0.00	
14148.75	88.914	129.102	7931.00 ¹	6536.56	-4122.65	5072.51	654870.43	436782.87	32°11'59.431"N	103°49'57.564"W	0.00	No.339H PBHL

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.339H PBHL (Rev-0)	14148.75	7931:00	-4122.65	5072.51	654870.43	436782.87	32°11'59.431"N	103°49'57.564"W	point

SURVEY PROGRAM - Ref Wellbore: No.339H PWB Ref Wellpath: Rev-A.0						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore		
19.00	14148.75	NaviTrak (Standard)		No.339H PWB		

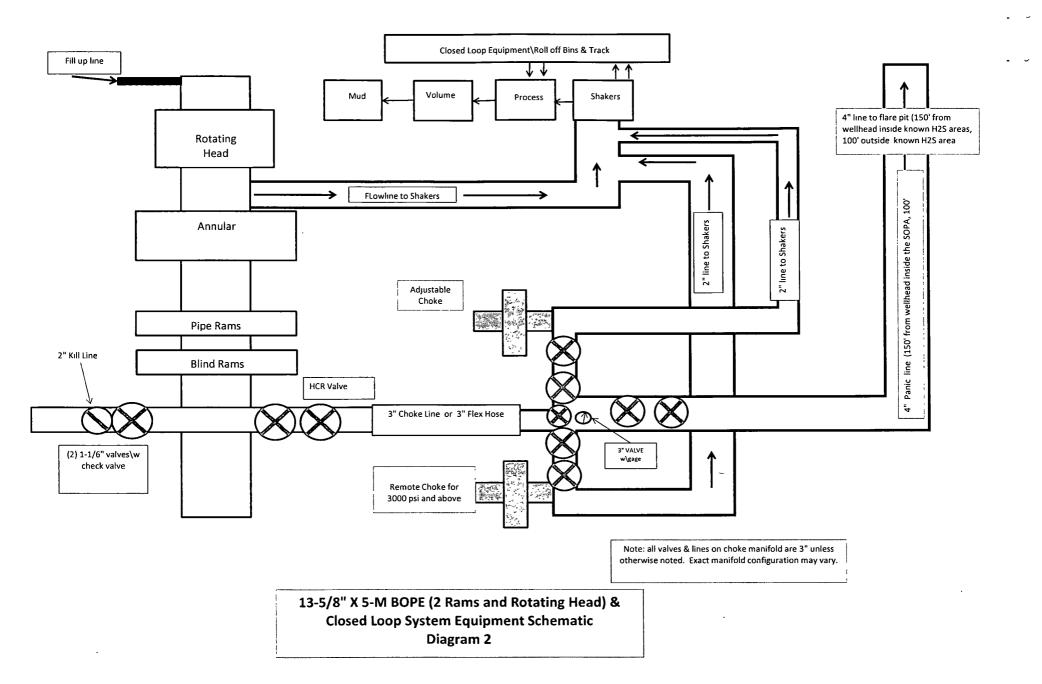
BOPCO, L. P. 13 5/8" X 5-M WP BOPE WITH 5-M WP ANNULAR



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



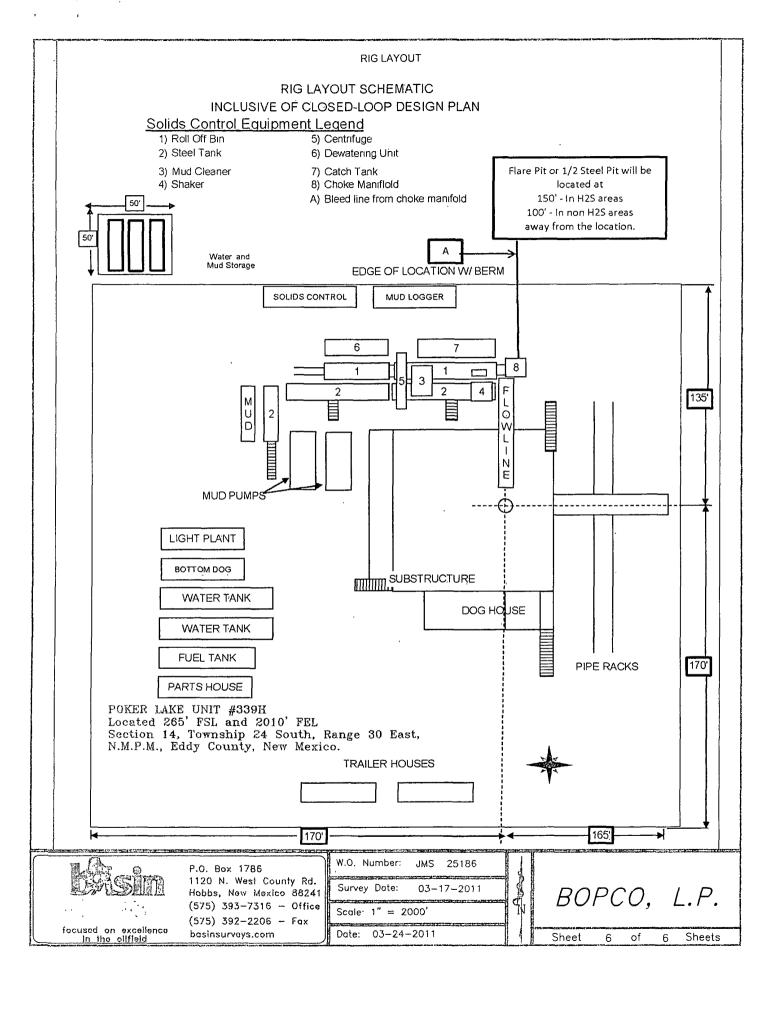


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H₂S CONTINGENCY PLAN SECTION

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:
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 H_2S , 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 H_2S areas, H_2S equipment will be rigged up after setting surface casing. For wells located inside known H_2S areas, the flare pit will be located 150' from the location and for wells located outside known H_2S 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 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 H_2S 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		Cell Phone Number
	Stephen Martinez	Drilling Supt.	432-556-0262
	Buddy Jenkins	Assistant Supt	432-238-3295
	Bill Dannels	Engineer	432-638-9463
	Pete Lensing	Engineer	432-557-7157
	Charles Warne	Engineer	432-894-1392
	Artesia		
			911
	State Police		575-746-2703
	Sheriff's Office		575-746-9888
	Fire Department		575-746-2701
	Local Emergency Pla	inning Committee	5/5-/46-2122
	New Mexico Oil Cons	servation Division	575-748-1283
	Carlsbad		
	Ambulance		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	inning Committee	5/5-88/-6544
	US Bureau of Land M	lanagement	575-887-6544
	New Mexico Emerger	ncy Response Commission (Santa F	e)505-476-9600
	24 Hour		505-827-9126
	New Mexico State En	nergency Operations Center	505-476-9635
	National Emergency	Response Center (Washington, DC)	800-424-8802
	Other		
	Wild Well Control		2-550-6202 (Permian Basin)
	Cudd PressureContro		2-570-5300 (Permian Basin)
	Flight For Life – 4000	24th St. Lubbock, Texas	806-743-9911
	Aerocare – R3, Box 4	· · · · · · · · · · · · · · · · · · ·	806-747-8923
	•	2301 Yale Blvd SE #D3, Albuq., NM_	
		- 2505 Clark Carr Loop SE, Albuq., N	
		y – 3317 NW Cnty Rd, Hobbs, NM	
	Total Safety – 3229 Ir	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.

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

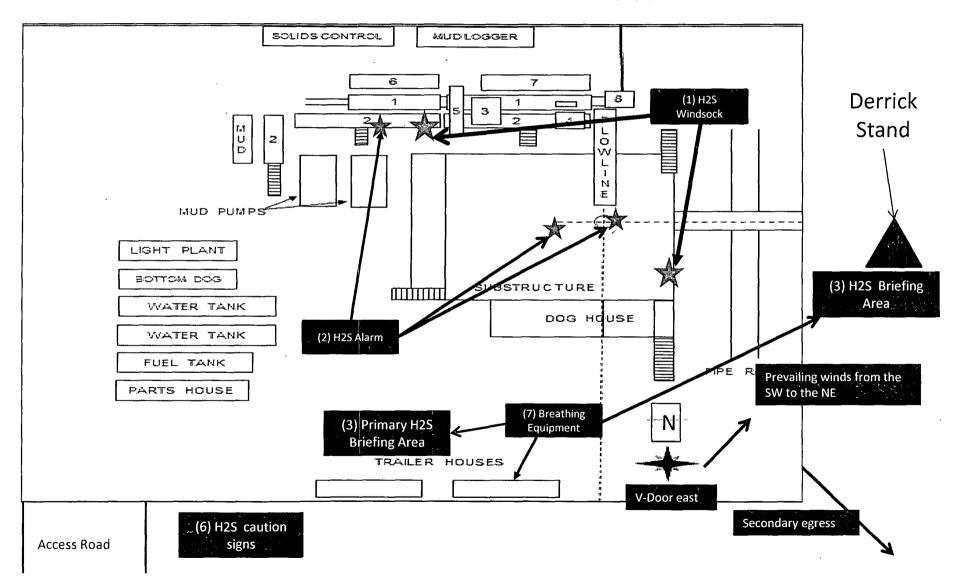
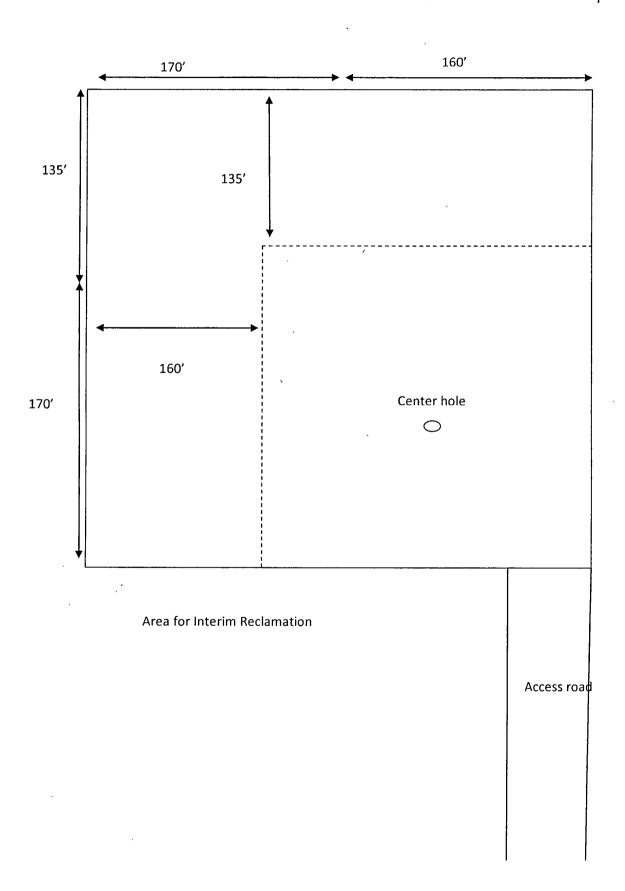


Diagram 3

BOPCO, Poker Lake Unit #339H

Interim Reclamation Well Pad Layout



Location On-Site Notes

Location on-site conducted by Cecil Watkins-BOPCO L.P., Randy Rust-BLM, and Robert Gomez-Basin Survey on 09/06/2011. The Poker Lake Unit 339H was moved to section 14 to a new surface footage call located at 265' FSL & 2010' FEL of Sec 14-T24S-R30E.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
BOPCO, LP
NM030453
339H-POKER LAKE UNIT
0265'/S. & 2010'/E.
1400'/S. & 2300'/E.
Section 14, T. 24 S., R. 30 E., NMPM
Eddy County, New Mexico

TABLE OF CONTENTS

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

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