Form 3160-3 (April 2004) UNITED STATES						
DEPARTMENT OF THE IN BUREAU OF LAND MANA	5 Lease Serial No. BHL: NMLC (
APPLICATION FOR PERMIT TO D	6. If Indian, Allotee	* /*/				
			7 If Unit or CA Agre	DP for lease info.		
la. Type of work: ✓ DRILL REENTER				nit NMNM 71016X 16/19/20		
lb. Type of Well Oll Well Gas Well Other	Single Zone Multipl	le Zone	8. Lease Name and V			
2 Name of Operator BOPCO, L. P.	426073	37>	9. API Well No.	4080/		
3a. Address P. O. Box 2760 Midland, TX 79702	Phone No. (include area code) 432-683-2277		10. Field and Pool, or I Corral Canyon	Exploratory n NE; Delaware 2 962687		
4. Location of Well (Report location clearly and in accordance with any 3	State requirements *)		11. Sec , T. R. M. or B			
At surface SWNE, UL G, 1805' FNL, 1945' FEL At proposed prod. zone NENW, Lot 3, 1100' FNL, 2500' FWI		83325	Sec 33, T24S, 1	R30E, Mer, NMP		
14 Distance in miles and direction from nearest town or post office* 12 miles east of Malaga			12 County or Parish Eddy	13 State NM		
15. Distance from proposed* 721' (Lease line)	1	17 Spacin	g Unit dedicated to this v	vell		
property or lease line, ft (Also to nearest drig. untt line, if any) 9,129' (Unit line)	6082.36	199	401.2			
to nearest well drilling completed	19 Proposed Depth		BIA Bond No. on file			
applied for, on this lease, ft. 820'	13,594! MD/ 7,619' TVD	COB	3 000050			
21. Elevations (Show whether DF, KDB, RT, GL, etc) 3,307 GL	2. Approximate date work will start	t* .	23. Estimated duration 30 Days	n		
	24. Attachments					
The following, completed in accordance with the requirements of Onshore	Oil and Gas Order No 1, shall be att	tached to th	is form.			
 Well plat certified by a registered surveyor A Drilling Plan. 	4 Bond to cover th Item 20 above).	e operatio	ns unless covered by an	existing bond on file (see		
3. A Surface Use Plan (if the location is on National Forest System La SUPO shall be filed with the appropriate Forest Service Office).		specific infe	ormation and/or plans as	may be required by the		
25. Signature Branden		Date 8/14/12				
Title Engineering Assistant				•		
Approved by (Signature) /s/ James A. Amos	Name (Printed/Typed)			DaOCT 1 6 2012		
Title FIELD MANAGER .	Office	RLSBAD	FIELD OFFICE			
Application approval does not warrant or certify that the applicant holds conduct operations thereon.	egal or equitable title to those right	s in the sub	oject lease which would e	entitle the applicant to		
Conditions of approval, if any, are attached.		<u>APPR</u>	OVAL FOR T	WO YEARS		
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.						

Carlsbad Controlled Water Basin

*(Instructions on page 2)

Approval Subject to General Requirements
& Special Stipulations Attached

RECEIVED

OCT 18 2012

NMOCD ARTESIA

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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

1000 Rio Brazos Rd., Aztec, NM 87410

ľ

DISTRICT III

DISTRICT IV

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

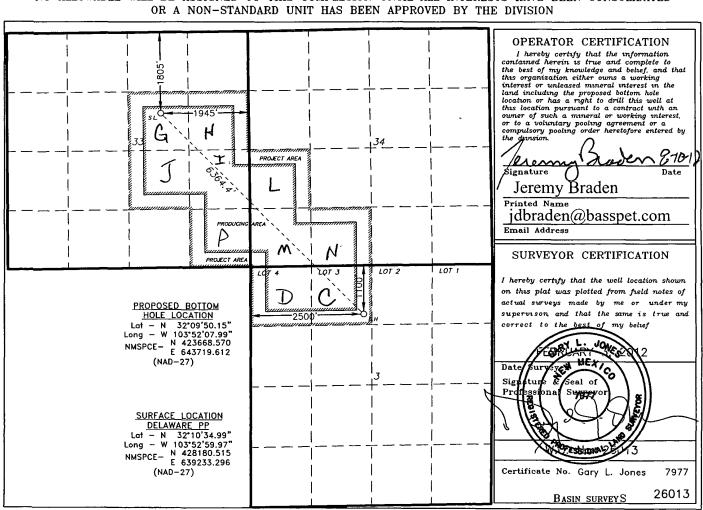
1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

30-01	Number 40	2801	9620	Pool Code)9	j	Corral Canyon NE; Delaware				
Property 306402	Code			Р	Property Nan OKER LAKE			Well Number 369H		
260737	о.		Operator Name BOPCO, L.P.					Elevat 330		
Surface Location										
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
G	33	24 S	30 E	DE 1805 NORTH 1945				EAST	EDDY	
			Bottom	Hole Loc	ation If Diffe	erent From Sur	face			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
LOT 3	3	25 S	S 30 E 1100 NORTH 2500 WEST E						EDDY	
Dedicated Acres Joint or Infill Consolidation Code Order No.										
400	1									

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



BOPCO, L.P.

P. O. Box 2760 Midland, Texas 79702

432-683-2277

FAX-432-687-0329

September 6, 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 #369H

1,805' FNL, 1945' FEL, Sec. 33, T24S, R30E, Eddy County, NM

Dear Mr. Peterson,

In reference to the above captioned well, I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in the APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 6 day of September, 2012.

If you have any questions regarding the accuracy of the plan provided herein, please do not hesitate to contact me at (432) 683-2277.

Sincerely,

Jeremy Braden

Surface casing is to be set into the Rustler below all fresh water sands at an approximate depth of 719' and cement circulated to surface.

7" casing will be set at approximately 7,631' MD, 7,444' 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: NMLC 0068430

Bottom Hole Lease Numbers - Federal Lease: NMLC 0061616A

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 369H

LEGAL DESCRIPTION - SURFACE: 1805' FNL, 1945' FEL, Section 33, T24S, R30E, Eddy County, NM.

BHL: 1100' FNL, 2500' FWL, Section 03, T25S, R30E, Eddy County, New Mexico.

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

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

Anticipated Formation Tops: KB 3329' (estimated)

GL 3307'

Formation Description	Est from KB (TVD)	Est (MD)	SUB-SEA TOP	BEARING
T/Fresh Water	400'	400'	+ 2,929'	Fresh Water
T/Rustler	739'	739'	+ 2,590'	Barren
T/Salado	1,009'	1,009'	+ 2,320'	Barren
B/Salt	3,616'	3,616'	- 287'	Oil/Gas
T/Lamar	3,819'	3,819'	- 490'	Oil/Gas
T/Ramsey ·	3,857'	3,857'	- 528'	Oil/Gas
Cherry Canyon	4,734'	4,734'	- 1,405'	Oil/Gas
Brushy Canyon	6,029'	6,029'	- 2,700'	Oil/Gas
KOP	6,931'	6,931'	- 3,602'	Oil/Gas
LBC "8A" Sand	7,344'	7,344'	- 4,015'	Oil/Gas
EOC	7,509'	7,874'	- 4,180'	Oil/Gas
Target #1	7,509'	7,874'	- 4,180'	Oil/Gas
TD Horizontal Hole	7,619'	13,594'	- 4,290'	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 ppf, H-40, or 54.5#, J-55 8rd, ST&C* See COA	0' - 71 8 ° 895	17-1/2"	Surface	New
9-5/8", 40 ppf, N-80, 8rd, LT&C or 9-5/8" 40 ppf, J-55, 8rd, LT&C*	0' – 3,840'	12-1/4"	Intermediate	New
7", 26 ppf, N-80, Buttress or 8rd LTC*	0' - 7,631'	8-3/4"	Production	New

Completion System	经企业的企业的发展	能的解的語	计算的编码数据编码	
4-1/2", 11.6 ppf, HCP-110 8rd LT&C,	7,581' – 13,594'	6-1/8"	Completion System	New
BTC				

^{*} Depending on availability.

CASING DESIGN SAFETY FACTORS:

TYPE TYPE	NSION	COLLAPSE	BURST
13-3/8", 48 ppf, H-40, 8rd, ST&C*	10.85	2.08	1.13
13-3/8", 54.5 ppf, J-55, 8rd, STC*	25.33	3.24	1.78
9-5/8", 40 ppf, N-80, 8rd, LT&C*	5.69	1.41	2.69
9-5/8", 40 ppf, J-55, 8rd, LT&C*	4.86	1.15	1.84
7", 26 ppf, N-80, Buttress*	3.62	1.35	1.74
7", 26 ppf, N-80, 8rd, LTC*	3.11	1.30	1.74

Completion System	A STATE OF THE	(海) (1) (1) (1) (1) (1) (1)	学是特别的 是一种的人,但是一种的人,但是一种的人,但是一种的人,但是一种的人,但是一种的人,但是一种的人,但是一种的人,但是一种的人,但是一种的人,但是一种的人,
4-1/2", 11.6 ppf, HCP-110 8rd. LT&C	3.75	2.17	2.57
4-1/2", 11.6 ppf, HCP-110 BTC	4.93	2.27	2.57

^{*} Depending on availability.

DESIGN CRITERIA AND CASING LOADING ASSUMPTIONS:

SURFACE CASING - (13-3/8")

Tension A 1.6 design factor utilizing the effects of buoyancy (9.2 ppg).

Collapse A 1.0 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the

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

Burst A 1.3 design factor with a surface pressure equal to the fracture gradient at setting depth less a gas gradient to the surface. Internal burst force at the shoe will be fracture pressure a that depth. Backup pressure will be formation pore pressure. In all cases a conservative fracture pressure will be used such

that it represents the upper limit of potential fracture resistance up to a 1.0 psi/ft gradient. The effects of tension on burst will not be utilized.

PROTECTIVE CASING - (9-5/8")

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

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

the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.

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

the protective string being used as a production casing string.

Burst A 1.0 surface design factor and a 1.3 downhole design factor with a surface pressure equivalent to the

fracture gradient at setting depth less a gas gradient to the surface. Internal burst force at the shoe will be fracture pressure at that depth. Back pressure will be formation pore pressure. In all cases a conservative fracture pressure will be used such that it represents the upper limit of potential fracture resistance up to a

1.0 psi/ft gradient.

Production CASING - (7")

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

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

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

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

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 request a variance to use an armored, 3", 5000 psi WP flex hose for the choke line in the drilling of the well if the rig is equip with hose. (See specification for hose that might be used, attached with APD exhibits). 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 13,594' MD (7,619' TVD) and max surface pressure should be +/-1889 psi as prescribed in onshore order #2 shown as max BHP minus 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

	5 1 17 C 10 7001							
DEPTH	Service State of the Principle	MUD TYPE	WEIGHT	FV ·	PV	YP	FL FL	Ph F
0 -719 895	FW Spud Mud	8.5 – 9.2	38-70	NC	NC	NC	10.0	
749' - 3,840'	Brine Water	9.8 – 10.2	28-30	NC	NC	NC	9.5 – 10.5	
3,840' – 7,631'	FW/Gel	8.7 - 9.0	28-36	NC	NC	NC	9.5 – 10.0	
7,631'-13,594'	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 SXS		TYPE	GALS/SX	PPG	FT ^{3/} SX
SURFACE: Lead: 0' – 419'	343	419	Class C +2% CACL + 4% · Bentonite + 0.25 LB/SK Cello Flake + 3 lb/sk LCM-1	8.69	13.50	1.75
Tail: 419' – 719'	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' - 3,340'	1050	3340	EconoCEM HLC + 5% CaCl + 5#/sk Gilsonite	9.32	12.90	1.85
Tail: 3,340' – 3,840'	270	500	HalCem C	6.34	14.80	1.33
Production Stage 1:			,			
Lead: 5,000' - 6,931'	170	1931	Tuned Light + 0.75% + CFR-3 + 1.5#/sk CaCl	12.41	10.20	2.76
Tail: 6,931' – 7,631'	116	700	VersaCem-PBSH2 + 0.4% Halad-9	8.76	13.0	1.65
DV Tool @ 5,000' Stage 2:				•		
Leád: 3,340' – 4,500'	139	1160	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 12,899'. The top of the Completion System will be set at approximately 7,691'. 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 6,931' at which point a directional hole will be kicked off and drilled at an azimuth of 135.16 degrees, building angle at 12.00 deg/100' to 60 degrees at a TVD of 7,344' (MD 7,431'). This angle and azimuth will be maintained for 200' to a measured depth of 7,631' (7,444' TVD). At this depth 7", 26#, N80, Buttress, or 8rd LTC casing will be installed and cemented in two stages (DV Tool @ approximately 5000') with cement circulated 500' inside the 9-5/8" intermediate casing. A 6-1/8" open hole lateral will then be drilled out from 7" casing at an azimuth of 135.16 degrees, inclination of 88.89 degrees to a measured depth of 13,594', TVD 7,619'. 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 3,565 psi (max) or MWE of 9.0 ppg is expected. Lost circulation may exist in the Delaware Section from 3,819' – 7,619' 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/KEK



BOPCO, L.P.

Location: Eddy County, NM
Field: Poker Lake Unit
Facility: Poker Lake Unit No. 369H
Wellbore: No. 369H PWB

Scale 1 snch = 1200 ft -600



5400

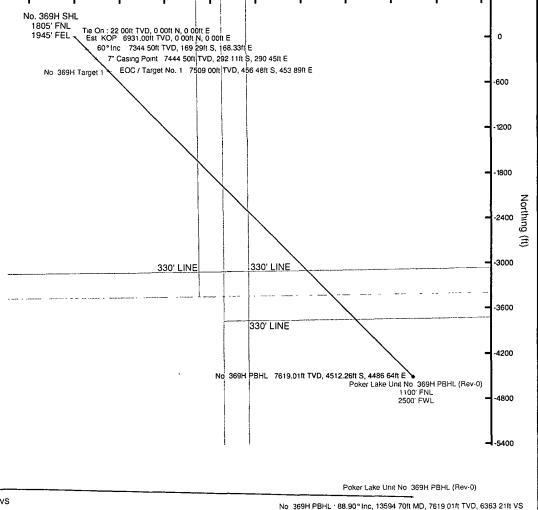
Rev=A.0

Well Profile Data									
Design Comment	MD (ft)	Inc (°)	Az (9	TVD (ft)	Local N (ft)	Local E (ft)	DLS (7100ft)	VS (ft)	
Tie On	22 00	0 000	135 163	22 00	0 00	0 00	0 00	0.00	
Est KOP	6931 00	0 000	135 163	6931 00	0 00	0 00	0 00	0 00	
60° Inc	7431 00	60.000	135 163	7344 50	-169 29	168 33	12 00	238 73	
7" Casing Point	7631 00	60 000	135 163	7444.50	-292 11	290 45	0.00	411 94	
EOC / Target No 1	7874 17	88 898	135,163	7509 00	-456 48	453 89	11 88	643 73	
No 369H PBHL	13594 70	88 898	135 163	761901	-4512 26	4486 64	0 00	6363 2	

Plot reference wellpath is Rev-A 0	
True vertical depths are referenced to Rig on No 369H SHL (KB)	Grid System NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No 369H SHL (KB)	North Reference Grid north
Rig on No 369H SHL (KB) to Mean Sea Level 3329 feet	Scale True distance
Mean Sea Level to Mud line (At Stot No 369H SHL) -3307 feet	Depths are in feet
Coordinates are in feet referenced to Stol	Created by: harricol on 8/2/2012



BGGM (1945 0 to 2014 0) Dp 60 02* Field: 48431 4 nT
Magnetic North is 7 69 degrees East of True North (at 8/2/2012)
Gn North is 02 degrees East of True North (at 8/2/2012)
Gn North is 0 24 degrees East of True North
To correct azimuth from True to Grid subtract 0.24 degrees
To correct azimuth from Magnetic to Grid add 74 54 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.45 = 97 45



Easting (ft)

2400

3000

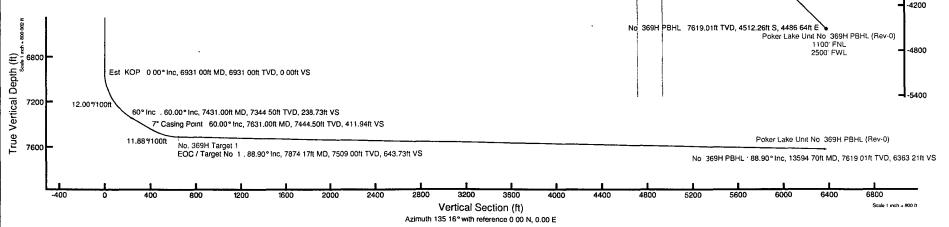
3600

4200

4800

1800

1200





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



REFER	ENCE WELLPATHIDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No. 369H SHL
Area	Eddy County, NM	Well	No. 369H
Field	Poker Lake Unit	Wellbore	No. 369H PWB
Facility	Poker Lake Unit No. 369H		

REPORT SETUI	PINFORMATION		
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Harrkol
Scale	0.999931	Report Generated	8/2/2012 at 11:45:23 AM
Convergence at slot	0.24° East	Database/Source file	WA Midland/No369H_PWB.xml

WELLPATH LOCATION												
	Local coo	rdinates	Grid co	ordinates	Geographic coordinates							
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude						
Slot Location	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W						
Facility Reference Pt			639233.30	428180.52	32°10'34.985"N	103°52'59.968"W						
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W						

WELLPATH DATU	M. Carlotte and the state of th		
Calculation method	Minimum curvature	Rig on No. 369H SHL (KB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Rig on No. 369H SHL (KB) to Mean Sea Level	3329.00ft
Vertical Reference Pt	Rig on No. 369H SHL (KB)	Rig on No. 369H SHL (KB) to Mud Line at Slot (No. 369H SHL)	22.00ft
MD Reference Pt	Rig on No. 369H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	135.16°



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



RIDIDIDIR	ENCEWELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No. 369H SHL
Area	Eddy County, NM	Well	No. 369H
Field	Poker Lake Unit	Wellbore	No. 369H PWB
Facility	Poker Lake Unit No. 369H		

WELLP.	ATH DAT		stations) † = ir	iterpo	lated	l/extrapola	ted station	1	ga er papergarminger unggehölde a skiphomenenske for ener en en en spekter å bekennnet endbyg spekt	*******	
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		0.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
22.00	0.000	135.163	22.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	Tie On
122.00†	0.000	135.163	122.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
222.00†	0.000	135.163	222.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
322.00†	0.000	135.163	322.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
422.00†	0.000	135.163	422.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
522.00†	0.000	135.163	522.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
622.00†	0.000	135.163	622.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
722.00†	0.000	135.163	722.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
739.00†		.135.163	739.00	0:00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	Rustler 📐
822.00†	0.000	135.163	822.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
922.00†	0.000	135.163	922.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
1009.00†	0.000	135.163	1009.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	Salado
1022.00†	0.000			0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
1122.00†	.0.000	135.163	,1122.00	0.00	0.00	0.00		428180.52	2.32°10'34.985"N	:: 103°52'59.968"W	0.00	
1222.00†	0.000	135.163	1222.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
1322.00†	0.000		1322.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
1422.00†	0.000		1422.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
1522.00†	0.000	135.163		0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
1622.00†	0.000		1622.00				639233.30	428180.52	. 32°10'34.985"N	103°52'59.968"W	0.00	1
1722.00†	0.000	135.163		0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
1822.00†	0.000	135.163	1822.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
1922.00†	0.000		1922.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
2022.00†	0.000		2022.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
2122.00†	0.000		2122.00	0.00;	0.00		.639233.30	428180.52	, 32°10'34.985"N	[103°52'59.968"W	<u> </u>	
2222.00†	0.000	135.163		0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
2322.00†	0.000	135.163	2322.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
2422.00†	0.000		2422.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
2522.00†	0.000		2522.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
2622.00†	0.000		2622.00	0.00	0.00		639233.30	428180.52	32°10'34.985"N	103°52'59.968."W	0.00	1
2722.00†	0.000			0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
2822.00†	0.000		2822.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	ļ
2922.00†	0.000		2922.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	ļ
3022.00†	0.000			0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
3122.00†	0.000	A AND DESCRIPTION OF THE PARTY	3122.00	Warning transportunity of the Charles	0.00	///				103°52'59.968"W		
3222.00†				0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	<u> </u>
3322.00†	0.000	135.163	3322.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
3422.00†	0.000			0.00	0.00		639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
3522.00†		135.163		0.00			639233.30				0.00	
3616.00†			3616.00							. 103°52'59.968"W		B\Salt ; i
3622.00†		135.163			0.00		639233.30	428180.52		103°52'59.968"W	0.00	
3722.00†		135.163			0.00		639233.30	428180.52		103°52'59.968"W	0.00	
3819.00†		135.163			0.00		639233.30	428180.52		103°52'59.968"W		Lamar
3822.00†		135.163		0.00	0.00			428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
3857.00†		135.163	3857.00	0.00	0.00	0.00	639233.30	,428180.52	32°10'34.985"N	103°52'59.968"W	0.00	Ramsey



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REBER	ENCEWEEDPATHUDENTIFICATION.		
Operator	BOPCO, L.P.	Slot	No. 369H SHL
Area	Eddy County, NM	Well	No. 369H
Field	Poker Lake Unit	Wellbore	No. 369H PWB
Facility	Poker Lake Unit No. 369H		

WELLI	PATH D	ATA (1	150 stat	ions)	† = inte	erpolat	ted/extra	polated st	ation	garay umaya u yaqqa daggilar usalasi isanlaga niyaqini yaqqanlari ata kumasi isanla ata		
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
3922.00†	0.000	135.163	3922.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	;
4022.00†	0.000	135.163	4022.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
4122.00†			4122.00	0.00	0.00					103°52'59.968"W	0.00	
4222.00†	0.000	135.163	4222.00	0.00	0.00					103°52'59.968"W	0.00	
4322.00†	0.000	135:163	4322.00	0.00	0:00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
4422.00†	0.000	135.163	4422.00	0.00	0.00					103°52'59.968"W	0.00	
4522.00†	0.000	135.163	4522.00	0.00	0.00	WITH THE PARTY OF		Santa and the sand	<u></u>	103°52'59.968"W	0.00	
4622.00†			4622.00	0.00	0.00					103°52'59.968"W	0.00	
4722.00†	0.000	135.163	4722.00	0.00	0.00	·				103°52'59.968"W	0.00	
4734.00†	0.000	135.163	4734.00	0.00	0.00					103°52'59.968"W	0.00	Cherry Canyon
4822.00†	0.000	135.163	4822.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
4922.00†			4922.00	0.00	0.00					103°52'59.968"W	0.00	
5022.00†			5022.00	0.00	0.00					103°52'59.968"W	0.00	
5122.00†	0.000	135.163	5122.00	0.00	0.00					103°52'59.968"W	0.00	
5222.00†			5222:00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
5322.00†	0.000	135.163	5322.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
5422.00†	0.000	135.163	5422.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
5522.00†	0.000	135.163	5522.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
5622.00†	0.000	135.163	5622.00	0.00	0.00					103°52'59.968"W	0.00	
5722:00†	0.000	135.163	5722.00	0.00	0:00	0.00	639233.30	428180.52	32°10'34:985"N	103°52'59.968"W	0.00	E AFFECT TO THE FO
5822.00†	0.000	135.163	5822.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
5922.00†	0.000	135.163	5922.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
6022.00†	0.000	135.163	6022.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
6029.00†	0.000	135.163	6029.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	Brushy Canyon
6122.00†	0.000	135:163	6122.00	0.00	0.00	0.00	639233:30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
6222.00†	0.000	135.163	6222.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
6322.00†			6322.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
6422.00†	0.000	135.163	6422.00	0.00	0.00	0.00	639233.30	428180.52	32°10'34.985"N	103°52'59.968"W	0.00	
6522.00†	0.000	135.163	6522.00	0.00	0.00					103°52'59.968"W	0.00	
6622.00†	Annual Control of the state of	THE RESERVE THE PROPERTY OF THE PARTY OF THE	6622.00	: 0.00:	0.00			***************************************		103°52'59.968"W	0.00	
6722.00†			6722.00	0.00	0.00	L		·		103°52'59.968"W	0.00	
6822.00†			6822.00	0.00	0.00			<u> </u>		103°52'59.968"W	0.00	·
6922.00†			6922.00	0.00	0.00					103°52'59.968"W	0.00	
6931.00			6931.00	0.00	0.00		Construction to the second	I amount a service and a service and a service as a servi	CONTRACTOR AND THE CONTRACTOR CON	103°52'59.968"W		Est. KOP
7022.00†			7021.45	8.65	-6:13					103°52'59.897"W	12.00	
7122.00†			7116.95	37.70	-26.73					103°52'59.660"W	12.00	· · · · · · · · · · · · · · · · · · ·
7222.00†	34.920	135.163	7204.32	85.97	-60.96					103°52'59.266"W	12.00	and the control of th
7322.00†			7279.74							103°52'58.732"W	12.00	1
7422.00†			7339.92	Commence of the Commence of th				The second of the second of the second	I made distribution with a many a manufacture of the contract	103°52'58.081"W		Contract the comment of the contract to the co
7430.01†	59.881	135.163	7344.00							103°52'58.025"W		Lower Brushy Canyon 8A
7431.00	60.000	135.163	7344.50							103°52'58.018"W	12.00	60° Inc
7522.00†			7390.00							103°52'57.374"W	0.00	
7622.00†	60.000	135.163	7440.00	404.14	-286.58	284.96	639518.23	427893.95	32°10'32.137"N	103°52'56.667"W	0.00	
7631.00			7444.50							103°52'56.603"W		7" Casing Point
7722.00†	70.814	135.163	7482:31	494:56	-350.70	348.71	639581.98	427829.84	32°10'31.500"N	103°52'55.928"W	11.88	
1.122.00†	:/0.814	135.163	/482:31	494.56	-350.70	348.71	639581.98	42/829.84	32,1031,500;N	*103*52*55.928#W	11.88	



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RIDIDIDIR	ENCE WELLPATHIDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No. 369H SHL
Area	Eddy County, NM	Well	No. 369Н
Field	Poker Lake Unit	Wellbore	No. 369H PWB
Facility	Poker Lake Unit No. 369H		

WELLP	ATH DA	TA (15	0 static	ns) †	= interp	olated/	extrapola	ted statio	n	A STREET, SA		and the second
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
7822.00†	82.698	135.163	7505.18	591.73	-419.60	417.22	639650.49	427760.94	32°10'30.816"N	103°52'55.134"W	11.88	
7874.17	88.898	135.163	7509.00	643.73	-456.48	453.89	639687.15	427724.07	32°10'30.449"N	103°52'54.709"W	11.88	EOC / Target No 1
7922.00†	88.898	135.163	7509.92	691.55	-490.39	487.61	639720.87	427690.16	32°10'30.112"N	103°52'54.319"W	0.00	
8022.00†	88.898	135.163	7511.84	791.53	-561.29	558.10	639791.36	427619.27	32°10'29.408"N	103°52'53.502"W	0.00	
8122.00†	88.898	135.163	7513.77	891.51	-632:19	628.60	639861.85	427548.37	32°10'28.703"N	103°52'52.685"W	0.00	
8222.00†	88.898	135.163	7515.69	991.50	-703.09	699.10	639932.34	427477.48	32°10'27.999"N	103°52'51.869"W	0.00	
8322.00†	88.898	135.163	7517.61	1091.48	-773.98	769.59	640002.83	427406.59	32°10'27.294"N	103°52'51.052"W	0.00	
8422.00†	88.898	135.163	7519.54	1191.46	-844.88	840.09	640073.33	427335.69	32°10'26.590"N	103°52'50.235"W	0.00	
8522.00†	88.898	135.163	7521.46	1291.44	-915.78	910.58	640143.82	427264.80	32°10'25.885"N	103°52'49.419"W	0.00	
8622.00†	-88.898	135.163	7523.38	1391.42	-986.68	981.08	640214.31	427.193.91	32°10'25.181"N	103°52'48.602"W	> 0.00	
8722.00†	88.898	135.163	7525.31	1491.40	-1057.58	1051.58	640284.80	427123.01	32°10'24.476"N	103°52'47.785"W	0.00	
8822.00†	88.898	135.163	7527.23	1591.39	-1128.48	1122.07	640355.29	427052.12	32°10'23.772"N	103°52'46.969"W	0.00	
8922.00†	88.898	135.163	7529.15	1691.37	-1199.37	1192.57	640425.78	426981.23	32°10'23.067"N	103°52'46.152"W	0.00	
9022.00†	88.898	135.163	7531.08	1791.35	-1270.27	1263.07	640496.27	426910.33	32°10'22.363"N	103°52'45.335"W	0.00	
9122.00†	88.898	135.163	7533:00	1891.33	-1341.17	1333.56	640566.76	426839.44	32°10'21.658"N	103°52'44.519"W	0.00	
9222.00†	88.898	135.163	7534.92	1991.31	-1412.07	1404.06	640637.25	426768.54	32°10'20.954"N	103°52'43.702"W	0.00	
9322.00†	88.898	135.163	7536.84	2091.29	-1482.97	1474.55	640707.75	426697.65	32°10'20.249"N	103°52'42.885"W	0.00	
9422.00†	88.898	135.163	7538.77	2191.27	-1553.87	1545.05	640778.24	426626.76	32°10'19.545"N	103°52'42.069"W	0.00	}
9522.00†	88.898	135.163	7540.69	2291.26	-1624.77	1615.55	640848.73	426555.86	32°10'18.840"N	103°52'41.252"W	0.00	
9622.00t	88.898	135.163	7542.61	2391.24	-1695.66	1686.04	640919.22	426484.97	32°10'18:136"N	103°52'40.436"W	0.00	
9722.00†	88.898	135.163	7544.54	2491.22	-1766.56	1756.54	640989.71	426414.08	32°10'17.431"N	103°52'39.619"W	0.00	
9822.00†	88.898	135.163	7546.46	2591.20	-1837.46	1827.03	641060.20	426343.18	32°10'16.727"N	103°52'38.802"W	0.00	
9922.00†	88.898	135.163	7548.38	2691.18	-1908.36	1897.53	641130.69	426272.29	32°10'16.022"N	103°52'37.986"W	0.00	
10022.00†	88.898	135.163	7550.31	2791.16	-1979.26	1968.03	641201.18	426201.40	32°10'15.318"N	103°52'37.169"W	0.00	
10122.00†	88.898	135.163	7552.23	2891.14	-2050.16	2038:52	641271.67	426130.50	32°10'14.613"N	103°52'36.352"W	0.00	
10222.00†	88.898	135.163	7554.15	2991.13	-2121.06	2109.02	641342.17	426059.61	32°10'13.908"N	103°52'35.536"W	0.00	
10322.00†	88.898	135.163	7556.08	3091.11	-2191.95	2179.51	641412.66	425988.72	32°10'13.204"N	103°52'34.719"W	0.00	
10422.00†	88.898	135.163	7558.00	3191.09	-2262.85	2250.01	641483.15	425917.82	32°10'12.499"N	103°52'33.903"W	0.00	
10522.00†	88.898	135.163	7559.92	3291.07	-2333.75	2320.51	641553.64	425846.93	32°10'11.795"N	103°52'33.086"W	0.00	
10622.00†	88.898	135.163	7561.85	3391:05	-2404.65	2391:00	641624.13	425776.04	32°10'11.090"N	103°52'32.269"W.	0.00	
10722.00†	88.898	135.163	7563.77	3491.03	-2475.55	2461.50	641694.62	425705.14	32°10'10.386"N	103°52'31.453"W	0.00	
10822.00†	88.898	135.163	7565.69	3591.02	-2546.45	2532.00	641765.11	425634.25	32°10'09.681"N	103°52'30.636"W	0.00	
10922.00†	88.898	135.163	7567.61	3691.00	-2617.35	2602.49	641835.60	425563.35	32°10'08.977"N	103°52'29.820"W	0.00	
11022.00†				3790.98						103°52'29.003"W	0.00	
11122.00†	88.898	135.163	7571.46	3890.96	-2759.14	2743.48	641976.59	425421.57	32°10'07/568"N	103°52'28.186#W	0.00	
11222.00†	88.898	135.163	7573.38	3990.94	-2830.04	2813.98	642047.08	425350.67	32°10'06.863"N	103°52'27.370"W	0.00	
11322.00†	88.898	135.163	7575.31	4090.92	-2900.94	2884.48	642117.57	425279.78	32°10'06.158"N	103°52'26.553"W	0.00	
11422.00†	88.898	135.163	7577.23	4190.90	-2971.84	2954.97	642188.06	425208.89	32°10'05.454"N	103°52'25.737"W	0.00	
11522.00†	88.898	135.163	7579.15	4290.89	-3042.74	3025.47	642258.55	425137.99	32°10'04.749"N	103°52'24.920"W	0.00	
11622.00†	88.898	135.163	7581.08	4390.87	-3113.64	3095.96	642329.04	425067.10	32°10'04.045"N	103°52'24.104".W	0:00	
11722.00†	88.898	135.163	7583.00	4490.85	-3184.53	3166.46	642399.53	424996.21	32°10'03.340"N	103°52'23.287"W	0.00	
11822.00†	88.898	135.163	7584.92	4590.83	-3255.43	3236.96	642470.02	424925.31	32°10'02.636"N	103°52'22.470"W	0.00	
11922.00†	88.898	135.163	7586.84	4690.81	-3326.33	3307.45	642540.51	424854.42	32°10'01.931"N	103°52'21.654"W	0.00	
12022.00†	88.898	135.163	7588.77	4790.79	-3397.23	3377.95	642611.00	424783.53	32°10'01.227"N	103°52'20.837"W	0.00	
12122.00†	88.898	135.163	7590.69	4890.77	-3468.13	3448.44	642681.50	424712.63	32°10'00.522"N	103°52'20.021"W	0.00	



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



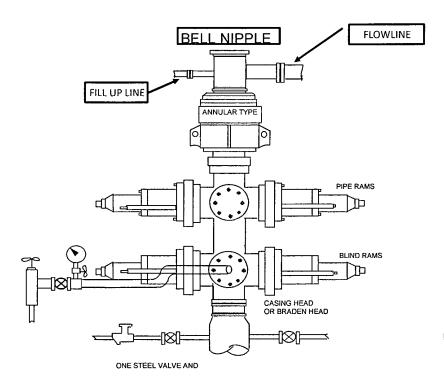
शिष्ठावावार	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No. 369H SHL
Area	Eddy County, NM	Well	No. 369H
Field	Poker Lake Unit	Wellbore	No. 369H PWB
Facility	Poker Lake Unit No. 369H		

WELLP	ATH DA	TA (15	0 statio	ns)	interpo	lated/e	xtrapolate	ed station		THE RESIDENCE OF THE PROPERTY		
1	Inclination	1		Vert Sect		East		Grid North	Latitude	Longitude		Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[°/100ft]	
12222.00†	88.898	135.163	7592.61	4990.76	-3539.03	3518.94	642751.99	424641.74	32°09'59.817"N	103°52'19.204"W	0.00	
12322.00†									32°09'59.113"N		0.00	
12422.00†	88.898	135.163	7596.46	5190.72	-3680.82	3659.93	642892.97	424499.95	32°09'58.408"N	103°52'17.571"W	0.00	
12522.00†									32°09'57.704"N		0.00	
12622:00†	with a sold of the same of the same									103°52'15.938"W,	0.00	
12722.00†									32°09'56.295"N		0.00	
12822.00†										103°52'14.305"W	0.00	
12922.00†										103°52'13.488"W	0.00	
13022.00†										103°52'12.672"W	0.00	
13122.00†	88.898	135.163	7609.92	5890.59	-4177:12	4153.40	643386:41	424003.70	32°09'53.476"N	103°52'11.855"W	0.00	
13222.00†	88.898	135.163	7611.84	5990.57	-4248.01	4223.90	643456.90	423932.80	32°09'52.772"N	103°52'11.039"W	0.00	
13322.00†	88.898	135.163	7613.77	6090.55	-4318.91	4294.40	643527.39	423861.91	32°09'52.067"N	103°52'10.222"W	0.00	
13422.00†	88.898	135.163	7615.69	6190.53	-4389.81	4364.89	643597.88	423791.01	32°09'51.363"N	103°52'09.406"W	0.00	
13522.00†	88.898	135.163	7617.61	6290.52	-4460.71	4435.39	643668.37	423720.12	32°09'50.658"N	103°52'08.589"W	0.00	
13594.70	88.898	135.163	7619.01 ¹	6363.21	-4512.26	4486.64	643719.62	423668.58	32°09'50.146"N	4103°52'07:996"W	0.00	No. 369H PBHL

TARGETS		*	ar and the second distributions of the second secon	hua eistä a vassatua eidamanua esten	And the service of th	eren i periodi in di mangrapa di mangle i di banggan	Michigan (n) commission of the observation of the o	a makan sa makan sa makangian ya dididikisika supukan Zabapikisa dipalipalim punaya piki ga	
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 369H Target 1		7509.00	-456.48	453.89	639687.15	427724.07	32°10'30.449"N	103°52'54.709"W	point
1) Poker Lake Unit No. 369H PBHL (Rev-0)	13594.70	7619.00	-4512.26	4486,63	643719.61	423668.57	32°09'50.146"N	103°52'07.996"W	point

SURVEY PROGRAM - Ref Wellbore: No. 369H PWB Ref Wellpath: Rev-A.0							
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore			
22.00	13594.70	NaviTrak (Standard)		No. 369H PWB			

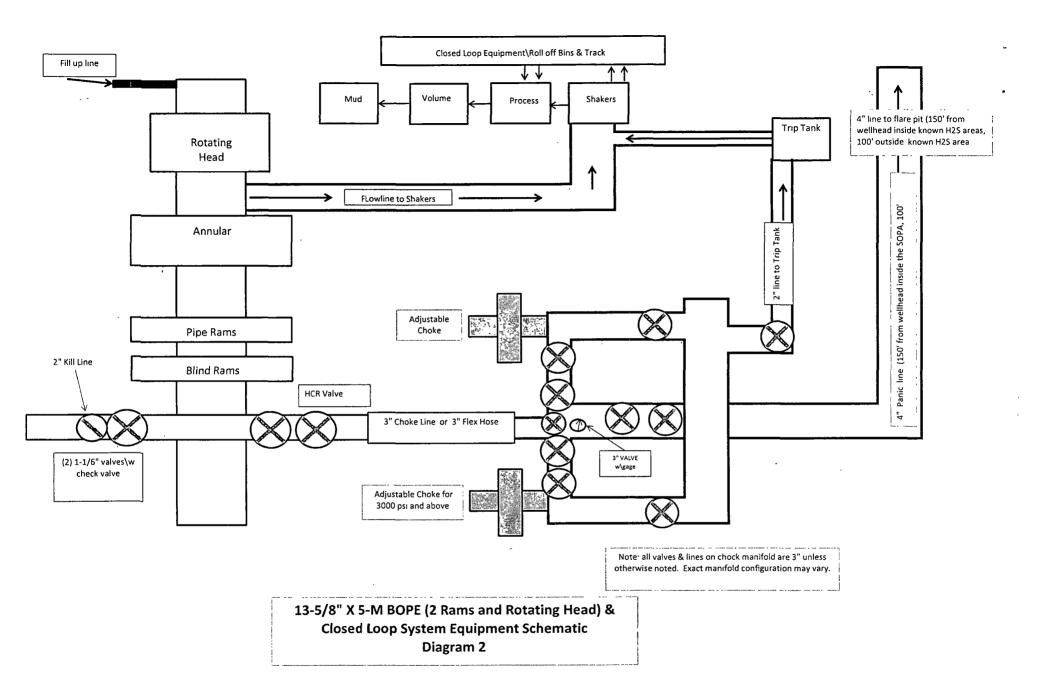
BOPCO, L. P. 13 5/8" X 5-M WP BOPE WITH 5-M WP ANNULAR



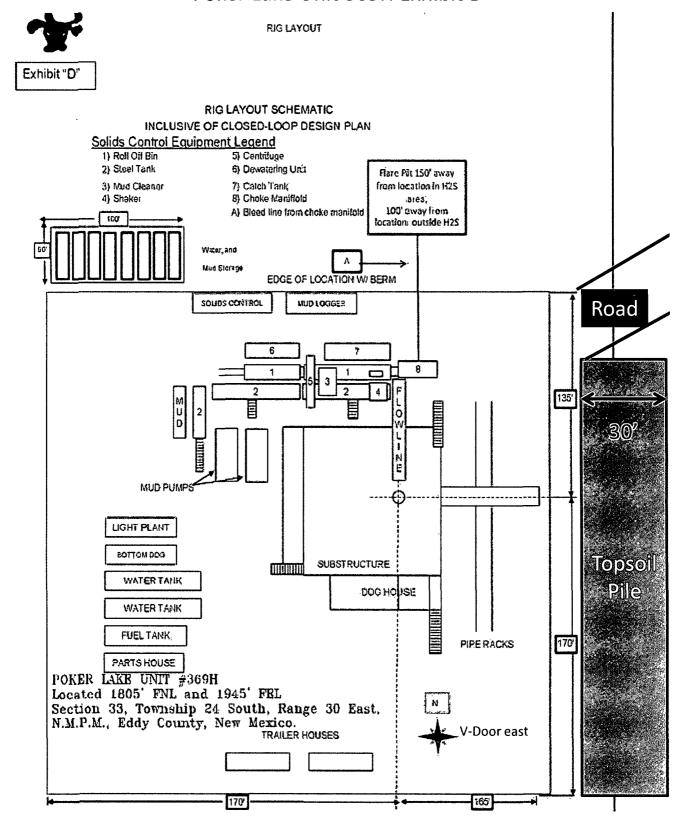
THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

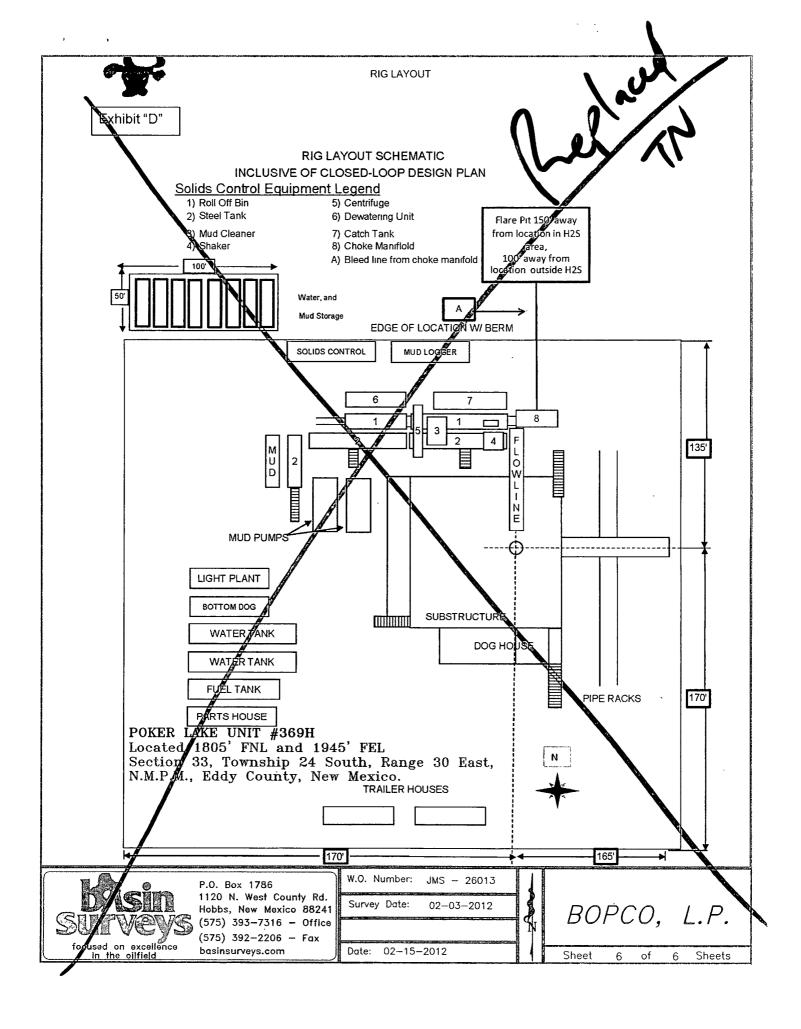
- A. One double gate Blowout preventer with lower pipe rams and upper blind rams, all hydraulically controlled.
- B. Opening on preventers between rams to be flanged, studded or clamped and at least two inches in diameter.
- C. All connections from operating manifold to preventers to be all steel hose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



BOPCO L.P. Poker Lake Unit 369H Exhibit D





Choke & Kill, BOP



Mr Choke & Kill

Designed as a flexible connection to the choke manifold.

Tube: petroleum resistant for oil based drilling fluids

Cover: ozone, petroleum, and

abrasion resistant

Reinforcement: high tensile steel

wire spiral layers

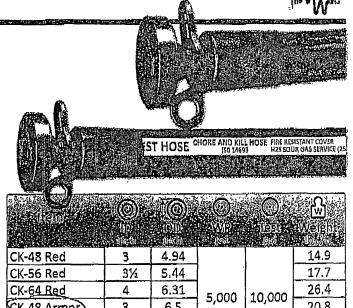
Thermal Blanket: 1500° continuous ratings, .

non-flammable, non-conductive

Armor Wall: ,144" Max Length: 150 feet



-20° F / +212° F -29° C / +100° C



(1)	incan	than (in)	pol	Japan .	10
CK-48 Red	3	4.94			14.9
CK-56 Red	31/2	5.44	1		17.7
CK-64 Red	4	6,31	5,000	5,000 10,000	
CK-48 Armor	3	6.5	3,000	10,000	20.8
CK-56 Armor	31/2	7			23.1
CK-64 Armor	4	8			26,3
CK-4810K Red	3	5,31			22.3
CK-5610K Red	31/2	5.81			25.0
CK-6410K Red	4	4.75	10,000	15,000	36.1
CK-4810K Armor	3	6.5	10,000	45,000	26.0
CK-5610K Armor	31/2	7			29.0
CK-6410K Armor	4	8			32.8

Mw-BOP Control Line

For blowout preventer lines. Tube: for hydraulic BOP actuation Thermal Blanket: 1500° continuous rating, non-flammable, non-conductive Armor Wall: .08" Popular with a larger hex and longer threads for easier installation of hammer unions.



-20° F / +21,2° F -29° C / +100° C

				AND THE PROPERTY.		HEROTERS CONTRACTOR	ł
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BOP-16 Armor 2.06 3.9 11.7 BOP-32 Armor 3.75 10,000 5.000 1 **BOP-16** 1.77 2,1 10.2 **BOP-32**

Carbon or stainless steel nipples are available and 1/2", 3/4", 1-1/4", and 1-1/2" sizes are available too.

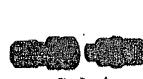




Integral 1002/1502 Hammer Union Fittings



Safety Clamps



Fire Proof Quick Connects



Ring Gaskets

Water white			
	881 Ph 18/ Pr ph 19	•	
	MIDWEST		
	HOSE AND SPECIAL	TY INC.	
	INTERNAL HYDROSTATIC TE	ST REPORT	
	Customer: LATSHAW DRILLING	P.O. Number: RIG#4	
	HOSE SPECIFICATIONS		
	Type: CHOKE & KILL	Length: 30'	
	I.D. 3" INCHES O.E WORKING PRESSURE TEST PRESSURE). 6-1/2" BURST PRESSURE	
	5,000 <i>PSI</i> 10,000	bunst Fresoure	
	COUPLINGS		
	Stem Part No. Ferrule No.		
	D3.0X64WB D3.0X64WE	3	
	Type of Coupling: Die Size: 4-1/16 5K FLANGE		
	PROCEDURE		
	HOSE ASSEMBLY PRESSURE ACTUAL TIME HELD AT TEST PRESSURE ACTUA	bient fempereture.	
	15 MIN.	0 PSI	
	COMMENTS: SER#81610		
	Date: Tested By:	Approved:	
	3/1/2011 DONNIE MCLEMORE	BRENT BURNETT	
	/ 14 / 14 / 14 / 14 / 14 / 14 / 14 / 14		

۵.

Michwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

April 4, 2012

Customer: Latshaw

Pick Ticket #: 81610

Verification

Hose Specifications

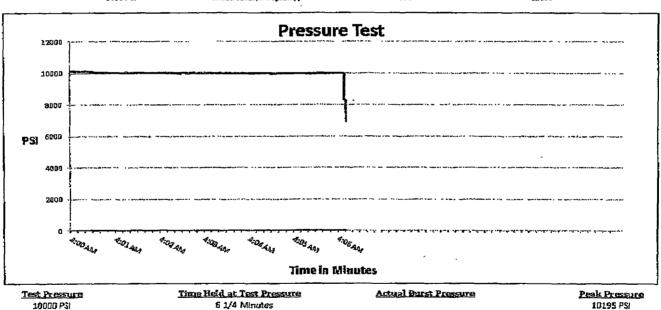
Hose Type D LD. Working Pressure 5000 PS

Length O.D. 415/32 Burst Pressure Standard Sales y Multiplier Applies Two of Fitting 41/165K Die Size

5.12" Hose Serial # 6884

Coupling Method Swage Final O.D.

5.16" Hose Assembly Serial # 81610



Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Donnie Mclemore

Approved By: Bobby Fink

MIDWEST

HOSE AND SPECIALTY INC.

INTER	NAL	HYDROST	TATIC TEST	r REPOF	RT.			
Customer: LATSHAW DRILLING				P.O. Number: RIG#4				
		HOSE SPECII	FICATIONS	•				
Туре: СНОКЕ	E		Length:	30	•			
I.D.	3"	INCHES	O.D.	6"	IN	CHES		
WORKING PRESSUR	Ε	TEST PRESSUR	E	BURST PRE	SSURE			
5,000	PSI	10,000	PSI			PSI		
		COUP	LINGS					
1	Type of End Fitting 4 1/16 5K FLANGE							
Type of Coupling SWEDO	_		MANUFACTURED BY MIDWEST HOSE & SPECIALTY					
PROCEDURE								
		pressure tested w TEST PRESSURE	1	BURST PRESS				
	1	MIN.			0	PSI		
COMMENTS: SO#81610 Hose is covered with stainless steel armour cover and wraped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes								
Date: 3/2/201		Tested By: BOBBY FINK		Approved: MENDI		ON		

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I. H₂S Contingency Plan

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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
- B. Instructions

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V. Emergency Equipment

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:

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

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

TRAINING REQUIREMENTS

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

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

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

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

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

EMERGENCY EQUIPMENT

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

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

All 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	Title	Cell Phone Number
	Stephen Martinez	Drilling Supt.	_432-556-0262
	Buddy Jenkins	Assistant Supt	
	Bill Dannels	Engineer	
	Pete Lensing	Engineer	432-557-7157
	Charles Warne	Engineer	432-894-1392
	<u>Artesia</u>		
	Ambulance		911
	State Police		575-746-2703
	City Police		575-746-2703
	Sheriff's Office		575-746-9888
	Fire Department	nning Committee	575-746-2701
	Local Emergency Pla	nning Committee	575-746-2122
	New Mexico Oil Cons	ervation Division	575-748-1283
	Carlsbad		
			911
	State Police		575-885-3137
	City Police		
			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
		ncy Response Commission (Santa F	•————
	24 Hour		505-827-9126
	New Mexico State Em	nergency Operations Center	505-476-9635
	National Emergency I	Response Center (Washington, DC)	800-424-8802
	Other		
	Wild Well Control		32-550-6202 (Permian Basin)
	Cudd PressureContro		32-570-5300 (Permian Basin)
		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	575-393-3093
	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	Threshold Limit	Hazardous Limit	Lethal Concentration
		(SC=1)	(1)	(2)	(3)
Hydrogen Cyanide	HCN	0.94	10 PPM	150 PPM/HR	300 PPM
Hydrogen Sulfide	H2S	1.18	10 PPM	250 PPM/HR	600 PPM
Sulfur Dioxide	SO2	2.21	5 PPM		1000 PPM
Chlorine	CL2	2.45	1 PPM	4 PPM/HR	1000 PPM
Carbon Monoxide	СО	0.97	50 PPM	400 PPM/HR	1000 PPM
Carbon Dioxide	CO2	1.52	5000 PPM	5%	10%
Methane	CH4	0.55	90,000 PPM	Combustible in air	Above 5%

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

Table II – PHYSICAL EFFECTS OF HYDROGEN SULFIDE

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

• At 15.00 PSIA and 60° F.

USE OF SELF-CONTAINED BREATHING APPARATUS

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

RESCUE & FIRST AID FOR H₂S POISONING

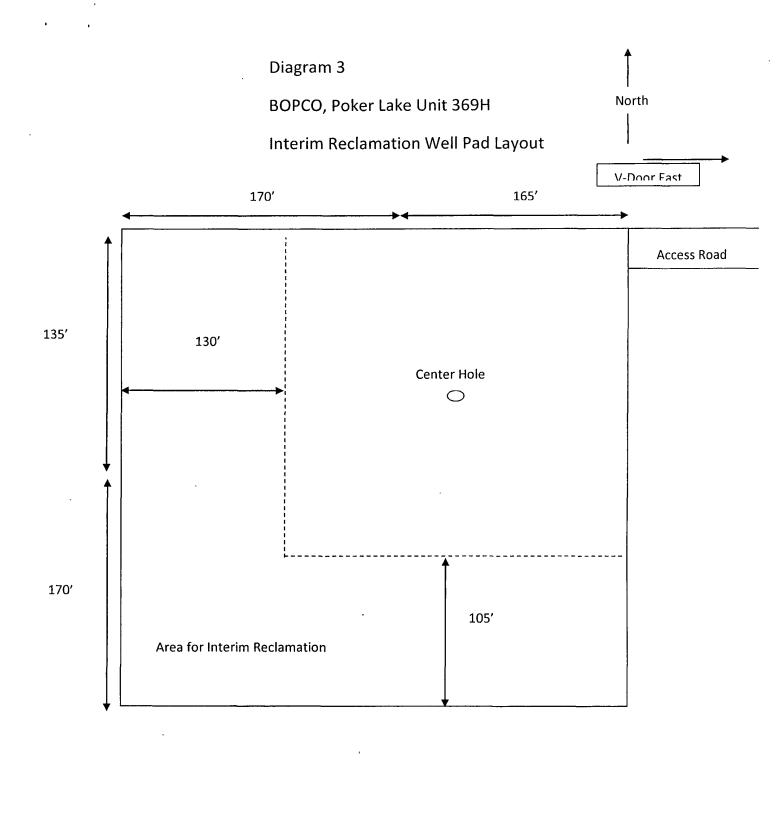
DO NOT PANIC - REMAIN CALM - THINK

- 1. Hold your breath do not inhale first.
- 2. Put on SCBA.
- 3. Remove victim(s) to fresh air as quickly as possible. Go upwind from source or at right angle to the wind. Do not go downwind.
- 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.

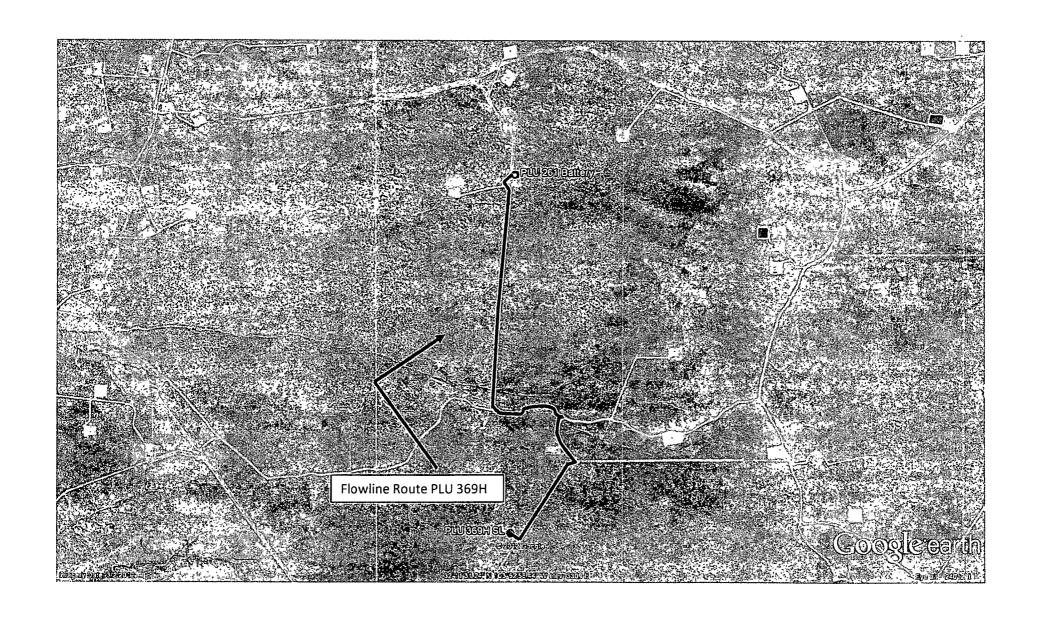
Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration and CPR, as well as first aid for eyes and skin contact with liquid H₂S.

Proposed H2S Safety Schematic

4) Terrain of surrounding area (Please refer to page 2 of survey plat package also see point 11 of multi-surface use plan) Location of windsocks. 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 (6) H2S-caution-3) Location of briefing areas. 6) Location of caution and/or danger signs. (7) Location of Breathing Equipment -signs-SOLIDS CONTROL MUDLOGGER **Access Road** Derrick (1) H2S Windsock-Stand D D 0 MUD PUMPS LIGHT PLANT BOTTOM DOG (3) H2S Briefing STRUCTURE Area WATER TANK DOG HOUSE WATER TANK (2) H2S Alarm FUEL TANK RACKS PARTS HOUSE Prevailing winds from the (7) Breathing (3) Primary H2S Equipment SW to the NE **Briefing Area** Secondary egress TRAILER HOUSES **V-Door East**



Poker Lake Unit 369H Diagram 4 Flowline Route



Location On-Site Notes

Location on-site conducted by Cecil Watkins-BOPCO L.P., Justin Frye-BLM, and Robert Gomez-Basin Survey on 05/29/2012. The Poker Lake Unit 369H, originally set at 1755' FNL & 2005' FEL, was moved 50' south & 60' east to avoid multiple dunes. A new surface footage call will be located at 1805' FNL & 1945' FEL of Sec 33-T24S-R30E V-Door east.

Note: The PLU 369H was originally staked as the PLU 359H and approved at the above calls by Randy Rust/BLM on 2/23/2012. Justin Frye re-approved the same calls for the PLU 369H.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: LEASE NO.: LC061616A

WELL NAME & NO.: 369H Poker Lake Unit

SURFACE HOLE FOOTAGE: 1805' FNL & 1945' FEL

BOTTOM HOLE FOOTAGE 1100' FNL & 2500' FWL, sec.3-T25S-R30E

LOCATION: Section 33, T.24 S., R.30 E., NMPM

COUNTY: Eddy County, New Mexico

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

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Fence Requirement
Cattleguard Requirement
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