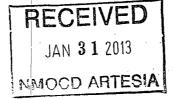
Med CareKurst

ATES			131, 2007		
HE INTERIOR MANAGEMENT	5.	Lease Serial No. SH BHL:NMLC \$063	IL-LCOGIBILO-A		
BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER					
EENTER	7	ū			
Single Zone Multip			Z //Y W/\		
< 260737	9.	API Well No.	41037		
3b. Phone No. (include area code) 432-683-2277	10.				
, ,	75933	•			
œ*		. County or Parish Eddy	13. State NM		
16. No. of acres in lease 4,322.6					
19. Proposed Depth 7,603' TVD/12,973' MD					
22. Approximate date work will star 04/30/2013	t* 23.	Estimated duration 30 Days	, .		
24. Attachments					
4. Bond to cover the ltem 20 above). System Lands, the ce). 5. Operator certificate. 6. Such other site se	e operations un ation specific informa	nless covered by an exis			
Name (PrintedTyped) Jeremy Braden		Dat	1/28/12		
Name (Printed/Typed)		Dat	JAN 29201		
Office CARLSBAD FIEL	D OFFICE				
nt holds legalor equitable title to those right	-				
	TO DRILL OR REENTER Single Zone Multip AGO 73 1 3b. Phone No. (include area code) 432-683-2277 with any State requirements.*) 350' FWL, Lat:N32.142783,Lg:W103.8 T25S-R30E,Lat:N32.131778,Lg:W103.ce* 16. No. of acres in lease 4,322.6 19. Proposed Depth 7,603' TVD/12,973' MD 22. Approximate date work will star 04/30/2013 24. Attachments Onshore Oil and Gas Order No.1, shall be at them 20 above). 5. Operator certifice 6. Such other site authorized office Name (Printed/Typed) Jeremy Braden Name (Printed/Typed) Office CARLSBAD FIEL nt holds legal or equitable title to those right	EENTER Single Zone	TO DRILL OR REENTER 6. If Indian, Allotee or To See front page of the See front page of		

*(Instructions on page 2)



Carlsbad Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

DISTRICT I 1625 N. French Dr., Hobbs, NM 86240

DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

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

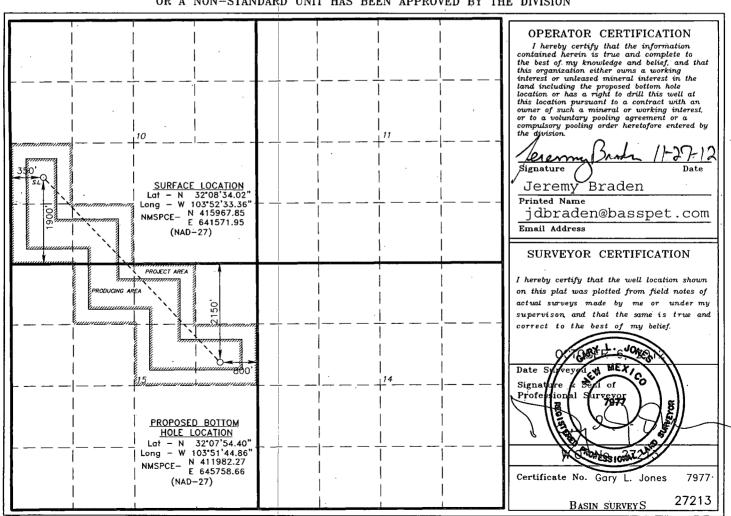
1220 South St. Francis Dr. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

		·	WELL LO	CATI	ION	AND ACREA	GE DEDICATI	ON PLAT		
30-01	S-4	1037	1	Pool Co		Cor	ral Canyon	Pool Name (Delaware)Northeast	
	Property Code Property Name 306402 POKER LAKE UNIT				Well Number 380H					
	OGRID No. Operator Name 260737 BOPCO, L.P.					Eleva 327				
	Surface Location									
UL or lot No.	Section	Township	Range	Lot I	ldn	Feet from the	North/South line	Feet from the	East/West line	County
L	10	25 S	30 E			1900	SOUTH	350	WEST	EDDY
			Bottom	Hole	Loca	ation If Diffe	rent From Sur	face '		
UL or lot No.	Section	Township	Range	Lot I	[dn	Feet from the	North/South line	Feet from the	East/West line	County
н	15	25 S	30 E			2150	NORTH	800	EAST	EDDY
Dedicated Acres	s Joint o	or Infill Co	nsolidation (Code	Orde	er No.			•	29
280									,	2973
NO ALLO	NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED									

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



BOPCO, L.P.

P. O. Box 2760 Midland, Texas 79702

432-683-2277

FAX-432-687-0329

November 21, 2012

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

Attn: Mr. Don F

Mr. Don Peterson - Assistant Field Manager, Minerals

RE:

APPLICATION FOR PERMIT TO DRILL

POKER LAKE UNIT #380H

1900' FSL, 350' FWL, Sec. 10, T25S, 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 $\frac{27}{}$ day of $\frac{Nov}{}$, 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 Engineering Tech

EIGHT POINT DRILLING PROGRAM BOPCO, L.P.

NAME OF WELL: Poker Lake Unit 380H

LEGAL DESCRIPTION - SURFACE: 1900' FSL, 350' FWL, Section 10, T25S, R30E, Eddy County, NM.

.BHL: 2150' FNL, 800' FEL, Section 15, 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 3289' (estimated)

GL 3270'

Formation Description	Est from KB (TVD):	Est (MD)	SUB-SEA TOP	BEARING
T/Fresh Water	400'	400'	+ 2,889'	Fresh Water
T/Rustler	894'	894'	+ 2,395'	Barren
T/Salado	1,184'	1,184	+ 2,105'	Barren
B/Salt	3,689'	3,689'	- 400'	Oil/Gas
T/Lamar	3,891'	3,891'	- 602'	Oil/Gas
T/Ramsey	3,927'	3,927'	'- 638'	Oil/Gas
Cherry Canyon	4,813'	4,813'	- 1,524'	Oil/Gas
Brushy Canyon	6,020'	6,020'	- 2,731' ;	Oil/Gas
KOP	6,757	6,757'	- 3,468'	Oil/Gas
LBC "8A" Sand	7,360'	7,360'	- 4,071'	Oil/Gas
EOC	7,573'	8,076'	- 4,284'	Oil/Gas
Target #1	7,573'	8,076'	- 4,284'	Oil/Gas
TD Horizontal Hole	7,603'	12,973'	- 4,314'	Oil/Gas

POINT 3: CASING PROGRAM

POINT S. CASING I ROCKAIN					
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*		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*	OP 01-3,901/385	0 12-1/4"	Intermediate	New	
7", 26 ppf, N-80, Buttress or 8rd LTC*	0' – 7,707'	8-3/4"	Production	New	

Completion System		位的自己的非常是如何的正义和传统	
4-1/2", 11.6 ppf, HCP-110 8rd LT&C,	7,657' — 12,973'	6-1/8" Completion Syste	m New
BTC	5		

^{*} Depending on availability.

CASING DESIGN SAFETY FACTORS:

TYPE	NSION	COLLAPSE ∕	BÜRST
13-3/8", 48 ppf, H-40, 8rd, ST&C*	6.65	1.24	1.11
13-3/8", 54.5 ppf, J-55, 8rd, STC*	15.51	1.97	1.76
9-5/8", 40 ppf, N-80, 8rd, LT&C*	5.59	1.38	2.64
9-5/8", 40 ppf, J-55, 8rd, LT&C*	4.78	1.13	1.81
7", 26 ppf, N-80, Buttress*	3.60	1.34	1.74
7", 26 ppf, N-80, 8rd, LTC*	3.09	1.29	. 1.74

Completion System		THE THE	CASE OF THE SECRETARY OF THE SECRETARY
4-1/2", 11.6 ppf, HCP-110 8rd. LT&C	3.67	2.12	2.52
4-1/2", 11.6 ppf, HCP-110 BTC	4.82	2.21	2.52

^{*} Depending on availability.

DESIGN CRITERIA AND CASING LOADING ASSUMPTIONS:

SURFACE CASING - (13-3/8")

Burst

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

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")

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

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.

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

Burst

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

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

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).

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

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.

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

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed, used, maintained and tested as per Onshore Order 2. In addition to the high pressure test, a low pressure (250-300 psig) test will be performed.

After running the 9-5/8" intermediate casing, a 13-5/8" or 11" BOP/BOPE system with a minimum rating of 3M will be installed on the 9-5/8" intermediate casing spool (8-3/4" open hole), used, maintained and tested as per Onshore Order 2. In addition to the high pressure test, a low pressure (250-300 psig) test will be performed.

After running the 7" intermediate casing, a 13-5/8" or 11" BOP/BOPE system with a minimum rating of 3M will be installed on the 9-5/8" intermediate casing spool (8-3/4" open hole), used, maintained and tested as per Onshore Order 2. In addition to the high pressure test, a low pressure (250-300 psig) test will be performed.

H2S contingency

H2S monitors shall be installed prior to drilling out the surface shoe. If H2S is encountered in quantities greater than 10 PPM, the well will be shut in and H2S equipment will be installed, including a flare line that will be extended pursuant to onshore oil and gas order #6.

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 12,973 MD (7,603' TVD) and max surface pressure should be +/- 1885 psi as prescribed in onshore order #2 shown as max BHP minus 0.22 psi/ft. Thus, 3000 psi BOPE 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.

POINT 5: MUD PROGRAM

30	DEPTH *		MUDITYPE	<u>WEIGHT</u>	<u>FV</u>	<u> PV</u>	YP.	FL.	• • <u>Ph</u>
	, 0 -1,174 0 R	FW Spud Mud	8.5 – 9.2	38-70	NC	NC	NC	10.0	9.5 - 10.5
ļ	1,174' - 3,901	Brine Water	9.8 – 10.2	28-30	NC	NC	NC	9.5 – 10.5	9.5 – 10.5
V	<u>3,901</u> ° – 7,707°	FW/Gel	8.7 – 9.0	28-36	NC	NC	NC	9.5 – 10.0	9.5 - 10.5
	7,707'-12,973'	FW/Gel/Starch	8.7 – 9.0	28-36	NC	NC	<100	9.5 – 10.0	9.5 – 10.5

NOTE: May increase vis for logging purposes only.

POINT 6: TECHNICAL STAGES OF OPERATION

TESTING A) None anticipated.

B) LOGGING

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

CEMENT D)

		1		,		
INTERVAL	AMOUNT SXS		TYPE	GALS/SX	PPG .	FT ^{3/} SX
SURFACE: 13 ³ / _q ¹¹ Lead: 0' – 874'	700	874	Class C +2% CACL + 4% Bentonite + 0.25 LB/SK Cello Flake + 3 lb/sk LCM-1	8.69	13.50	1.75
Tail: 874' – 1,174'	340	300	Class C + 2% CACL + 0.25 LB/SK CF	6.35	14.80	1.35
INTERMEDIATE: 9.5/			0.25LB/SK Cello Flake + 3 lb/sk LCM-1			
Lead: 0' - 3,401';	1000	3401	EconoCEM HLC + 5% CaCl + 5#/sk Gilsonite	9.32	12.90	1.85
Tail: 3,401' – 3,901'	270	500	HalCem C	6.34	14.80	1.33
Production 7 // Stage 1:						
Lead: 5,000' – 6,757'	150	1757	Tuned Light + 0.75% + CFR-3 + 1.5#/sk CaCl	12.41	10.20	2.76
Tail: 6,757' – 7,707'	150	950	VersaCem-PBSH2 + 0.4% Halad-9	8.76	13.0	1.67
DV Tool @ 5,000'						
Stage 2:-						
Lead: 3,401' – 4,500'	110	1099	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
			A second			

Cement excesses will be as follows:

Surface - 100% excess with cement circulated to surface.

Production – 50% above gauge hole or 35% above electric log caliper with cement circulated 500' up into the 9-5/8" 1st intermediate casing in areas outside the SOPA. Cement will be circulated to surface on areas inside the SOPA.

Cement volumes will be adjusted proportionately for depth changes of the multi stage tool.

E) COMPLETIONS SYSTEM

A 4-1/2" completion system with open hole packers will be run in the producing lateral to a depth of 12,973'. The top of the Completion System will be set at approximately 7,657'. 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 6,757' at which point a directional hole will be kicked off and drilled at an azimuth of 133.59 degrees, building angle at 8.00 deg/100' to 60 degrees at a TVD of 7,377' (MD 7,507'). This angle and azimuth will be maintained for 200' to a measured depth of 7,707' (7,477' 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 133.59 degrees, inclination of 89.64 degrees to a measured depth of 12,973', TVD 7,603'. At this depth a 4-1/2" Completion System with packers installed for zone isolation will be run into the producing lateral.

G) H₂S SAFETY 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 for flare line reference) 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 A, B or C 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 A, B or C.

^{1&}lt;sup>st</sup> Intermediate – 50% excess above fluid caliper with cement circulated to surface.

I) MUD MONITORING SYSTEM

- 1. BOPCO L.P. plans to drill the proposed well with water and does not expect to mud up. In the event of abnormal pressures that require mudding up, BOPCO L.P will record slow pump rates on the daily drilling report on a daily basis.
- 2. Visual mud monitoring equipment will be installed to detect volume changes.
- 3. Pit volume totalizers are installed on rig before spud.
- 4. BOPCO L.P. has the drilling mud checked every 24 hrs., and the daily mud check will be posted in the company man's trailer.
- 5. BOPCO L.P will be using a 3M system so trip tanks will not be required per Onshore order #2.
- 6. Gas detections systems will be installed on exploratory wells per Onshore order #2. Please refer to section G under point 6 in the 8pt drilling program for H2S safety information.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout Delaware section. A BHP of 3558 psi (max) or MWE of 9.0 ppg is expected. Lost circulation may exist in the Delaware Section from 3,689'-7,603' 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

CJL



£ 6000

6500

7000

7500

8.00 % 100ft

8.02 % 100ft

500

True Vertical Depth (ft)

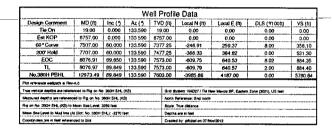
BOPCO, L.P.

Location: Eddy County, NM Field: Poker Lake Unit Facility: Poker Lake Unit No. 380H

Slot: No. 380H SHL Well: No. 380H

Wellbore: No. 380H PWB





Est KOP: 0.00° Inc, 6757.00ft MD, 6757.00ft TVD, 0.00ft VS

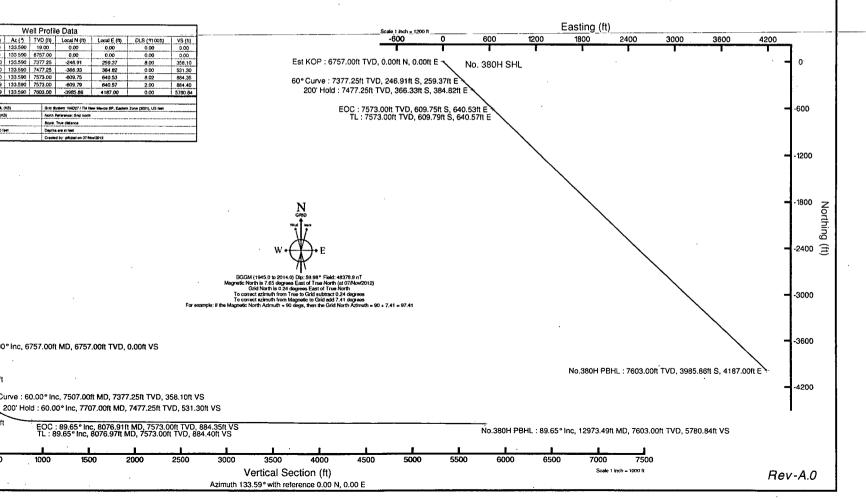
1000

60° Curve: 60.00° Inc, 7507.00ft MD, 7377.25ft TVD, 358.10ft VS

1500

2000

2500





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



RIDIDIDIR	ENCE WELLPATHIDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No. 380H SHL
Area	Eddy County, NM	Well	No. 380H
Field	Poker Lake Unit	Wellbore	No. 380H PWB
Facility	Poker Lake Unit No. 380H		

REPORT SETTOP	INFORMATION		
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gilbjosl
Scale	0.999932	Report Generated	07/Nov/2012 at 11:46:00 AM
Convergence at slot	0.24° East	Database/Source file	WA Midland/No380H_PWB.xml

WEIGHTANHOLO CATI	HON										
	Local coordinates Grid coordinates Geographic coordinates										
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude					
Slot Location	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W					
Facility Reference Pt			641571.95	415967.85	32°08'34.029"N	103°52'33.361"W					
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W					

WELLPATH DATU			
Calculation method	Minimum curvature	Rig on No. 380H SHL (KB) to Facility Vertical Datum	19.00ft
Horizontal Reference Pt	Slot	Rig on No. 380H SHL (KB) to Mean Sea Level	3289.00ft
Vertical Reference Pt	Rig on No. 380H SHL (KB)	Rig on No. 380H SHL (KB) to Mud Line at Slot (No. 380H SHL)	19.00ft
MD Reference Pt	Rig on No. 380H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	133.59°



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



RIDDER	ENCEWELLPATH IDENTIFICATION	20.	
Operator	BOPCO, L.P.	Slot	No. 380H SHL
Area	Eddy County, NM	Well	No. 380H
Field	Poker Lake Unit	Wellbore	No. 380H PWB
Facility	Poker Lake Unit No. 380H		

WELLP.	ATH DAT	A (146 s	stations)	† = in	terpo	ated/	'extrapolat	ed station			na arani and distribution and the state of the	
MD [ft]		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	133.590	0.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
19.00	0.000	133.590	19.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	Tie On
119.00†	0.000	133.590	119.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	-
219.00†	0.000	133.590	219.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
319.00†	0.000	133.590	319.00	0.00	0:00	0.00;	641571.95	415967.85		103°52'33.361#W	0.00	
400.00†	0.000	133.590	400.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	T/Fresh Water
419.00†	0.000	133.590	419.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
519.00†	0.000	133.590	519.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
619.00†	0.000	133.590	619.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
₹719.00†	0.000	133:590	· 7.19.00	≥ 0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52¦33.361"W	0.00	
819.00†	0.000	133.590	819.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
894.00†	0.000	133.590	894.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	T/Rustler
919.00†	0.000	133.590	919.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
1019.00†	0.000	133.590	1019.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
#1119.00†	0.000	133:590	1119.00		0.00	0.00	641571.95	415967.85	32°08'34.029"N	- 103°52'33.361#W	. 0.00	
1184.00†	0.000	133.590	1184.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	T/Salado
1219.00†	0.000	133.590	1219.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
1319.00†	0.000	133.590	1319.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
1419.00†	0.000	133.590	1419.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
1519.00†	0.000	133:590	1519.00	₩0.00	0:00	0.00	641571.95	415967.85	32°08'34:029"N	103°52'33.361"W	0.00	
1619.00†	0.000	133.590	1619.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
1719.00†	0.000	133.590	1719.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
1819.00†	0.000	133.590	1819.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
1919.00†	0.000	133.590	1919:00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
32019.00t	0.000	133.590	2019:00	0.00	0:00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
2119.00†	0.000	133.590	2119.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
2219.00†	0.000	133.590	2219.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
2319.00†	0.000	133.590	2319.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	İ
2419.00†	0.000	133.590	2419.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
2519.00†	0.000	133.590	2519.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	



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RIDIDIDIRI	ence weglpath identification		The state of the s	
Operator	BOPCO, L.P.		Slot	No. 380H SHL
Area	Eddy County, NM	1	Well	No. 380H
Field	Poker Lake Unit		Wellbore	No. 380H PWB
Facility	Poker Lake Unit No. 380H		meridinina arang at stammak, iki menangan dalam menang di balan m	The state of the s

WELLP	ATH DAT	'A (146	stations)) † = in	terpo	lated	/extrapola	ted station	and the contract of the party of the contract	ar art m ^a anna dhakaqaan dhaan ar		vandana av van van van van van van van van v
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
2619.00†	0.000	133.590	2619.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
2719.00†	0.000	133.590	2719.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	The same of the sa
2819.00†	0.000	133.590	2819.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	The state of the s
2919.00†	0.000	133.590	2919.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
3019:00†	0.000	¥133.590	3019.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33:361"W	0.00	# 1 / # T
3119.00†	0.000	133.590	3119.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
3219.00†	0.000	133.590	3219.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34,029"N	103°52'33.361"W	0.00	•
3319.00†	0.000	133.590	3319.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
3419.00†	0.000	133.590	3419.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34,029"N	103°52'33.361"W	0.00	
3519.00†		133.590	TO SECURE AND ADDRESS OF THE PARTY OF THE PA	0.00			641571.95	415967.85	32°08'34.029"N'	103°52'33.361"W	0.00	
3619.00†	0.000			0.00			641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
3689.00†	0.000		3689.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	B/Salt
3719.00†	0.000	133.590	3719.00	0.00			641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
3819.00†	0.000	133.590		0.00	0.00		641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
3891.00†			3891.00	0.00		0.00	641571.95	415967.85	32°08'34.029"N	103°52'33'.361"W	0.00	T/Lamar
3919.00†	0.000	133.590	3919.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
3927.00†	0.000	133.590	3927.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W		T/Ramsey
4019.00†	0.000	133.590			0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
4119.00†	0.000	133.590		0.00			641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
4219.00†			4219.00				641571:95	415967.85	PROPERTY OF THE PROPERTY OF TH	103°52'33.361"W	0.00	
4319.00†	0.000	133.590			0.00			415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
4419.00†	0.000	133.590		0.00			641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
4519.00†	0.000	133.590	***	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
4619.00†	0.000	133.590		0.00	0.00		641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	1
4719.00†		133.590		0.00			641571.95	415967.85				
4813.00†	0.000	133.590		0.00	0.00		641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	Cherry Canyon
4819.00†	0.000	133.590	4819.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
4919.00†	0.000	133.590		0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
5019.00†	0.000	133.590		0.00		0.00	t		32°08'34.029"N	103°52'33.361"W	0.00	
5119.00†	0.000	133.590	5119.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	



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RIDDOR	ENCESWEIFEPÄNHTIDENTHEICATHO	Ŋ		
Operator	BOPCO, L.P.	S	lot	No. 380H SHL
Area	Eddy County, NM	v	Vell	No. 380H
Field	Poker Lake Unit	V	Vellbore	No. 380H PWB
Facility	Poker Lake Unit No. 380H			

WELLP	ATH DA	TA (146	station	s) †=i	interpol	ated/ex	trapolate	d station		, and, and a strong and the same of the strong and		maja ni, ni a antikida ane antinkema meremmananan cane cati ketiki e
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
5219.00†	0.000	133.590	5219.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
5319.00†	0.000	133.590	5319.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
5419.00†	0.000	133.590	5419.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
5519.00†	0.000			0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
5619.00†	0.000	133.590	5619.00	0.00	0.00	0.00	(641571.95)	415967.85	32°08'34.029"N	103°52'33.361"W	0:00	
5719.00†	0.000	133.590	5719.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
5819.00†	0.000	133.590	5819.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
5919.00†	0.000		5919.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
6019.00†	0.000	133.590		0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
6020.00†	0.000	133.590	6020.00	0.00	0.00	0.00	*641571.95	415967.85	32°08'34.029"N	103°52!33.361"W	0.00	Brushy Canyon
6119.00†	0.000	133.590	6119.00	0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
6219.00†	0.000			0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	<u> </u>
6319.00†	0.000			0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
6419.00†		133.590		0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
6519:00†		133.590	Section 1	0.00	0.00		The second care of a compact that the second compact the second compact that the second compact the second compact that the se		32°08'34.029"N	103°52'33.361"W	0.00	
6619.00†	0.000			0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
6719.00†	0.000			0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	
6757.00	0.000	133.590		0.00	0.00	0.00	641571.95	415967.85	32°08'34.029"N	103°52'33.361"W	0.00	Est KOP
6819.00†	4.960	133.590		2.68	-1.85	1.94	641573.89	415966.00	32°08'34.011"N	103°52'33.339"W	8.00	FOR THE PROPERTY AND ADDRESS OF THE PARTY OF
6919.00†	IF Married to Hilliams are seen the seed of	133.590	Himmodewick with college college (1918)	18.24	-12.58	LEED OF LAKE CONSIDERATION	The second secon	AND THE PERSON NAMED OF TH	32°08'33.904"N	103°52'33.208"W	-	
7019.00†	20.960			47.39	-32.68	34.32	641606.27	415935.18	32°08'33.704"N	103°52'32.964"W	8.00	
7119.00†	28.960			89.55	-61.75	64.86	641636.81	415906.11	32°08'33.415"N	103°52'32.610"W	8.00	
7219.00†	36.960			143.92	-99.23	104.24	641676.18	415868.63	32°08'33.043"N	103°52'32.154"W	8.00	
7319.00†	44.960			209.42	-144.39	151.68	641723.62	415823.47	32°08'32.594"N	103°52'31.604"W	8.00	
7419:00†	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	ALL CONTRACTOR OF THE PROPERTY	A SECTION OF THE PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE P	284.78					32°08'32.077"N	103°52'30.972"W		Charles of the same of the same of the same
7473.83†		133.590		329.77		238.85	641810.78	415740.49	32°08'31.769"N	103°52'30.595"W		LBC "8A" Sand
7507.00				358.10	-246.91	259.37	641831.30	415720.96	32°08'31.575"N	103°52'30.357"W		60° Curve
7519.00†	60.000			368.49	-254.07	266.90	641838.83	415713.80	32°08'31.504"N	103°52'30.270"W	0.00	
7619.00†	alem der gelen engledes my met gelagtige entlette e.g.	133.590		455.09	-313.78	329.62	641901.55	415654.09	32°08'30.910"N	103°52'29.543"W	0.00	
7707.00	60.000	%133.590 _a	7477.25	2531.30	-366:33	384.82	641956.74	415601.55	32°08'30.388',N	103°52'28.904"W	0.00	200 Hold



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RDDER	ENCE WELLPATH IDENTIFICATION		
Operator	BOPCO, L.P.	Slot	No. 380H SHL
Area	Eddy County, NM	Well	No. 380H
Field	Poker Lake Unit	Wellbore	No. 380H PWB
Facility	Poker Lake Unit No. 380H		,

WELLPA	TH DAT	'A (146	stations) † = ir	terpolat	ed/extra	polated st	ation	yanan yandayiga da	angan kalan angan sa manan kalan	t3 man pander varia. un m	
MD.	Inclination		TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude		Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[°/100ft]	
7719.00†		133.590	Man and the same a	541.75	-373.53	392.38	641964.30	415594.35	32°08'30.316"N	103°52'28.816"W	8.02	
7819.00†		-133.590		632.28	-435.95	457.96	642029.87	415531.93	32°08'29.696"N	103°52'28.057"W	8.02	
7919.00†		133.590		727.83	-501.83	527.16	642099.07	415466.05	32°08'29.041"N	103°52'27.255"W	8.02	4 . 4 4 4 7 4 4 4 7 4 4 4 7 4 4 4 7 4
8019.00†	85.008	133.590	7570.30	826.51	-569.88	598.64	642170.55	415398.01	32°08'28.365"N	103°52'26.427"W	8.02	
8076.91	89.650	133.590	7573.00	884.35	a:-:609:75	640.53	=642212.43 ₃	415358.14	I stransamental and the second second	[4] 103°52:25.942:W	8.02	EOC:
8076.97	89.649	133.590	7573.00	884.40	-609.79	640.57	642212.47	415358.10	32°08'27.968"N	103°52'25.942"W	2.00	TL
8119.00†	89.649	133.590	7573.26	926.43	-638.77	671.01	642242.91	415329.12	32°08'27.680"N	103°52'25.589"W	0.00	
8219.00†	89.649	133.590	7573.87	1026.43	-707.72	743.44	642315.33	415260.18	32°08'26.994"N	103°52'24.750"W	0.00	
8319.00†	89.649	133.590	7574.48	1126.43	-776.67	815.86	642387.76	415191.24	32°08'26.309"N	103°52'23.911"W	0.00	5
8419.00†	89.649	133.590	7575:10	1226.43	845.61	* 888.29	642460.18	415122:29	32°08'25.624"N	#103°52'23.072"W	<u>0.00</u>	A9, 3 45
8519.00†	89.649	133.590	7575.71	1326.43	-914.56	960.72	642532.60	415053.35	32°08'24.938"N	103°52'22.234"W	0.00	
8619.00†	89.649	133.590	7576.32	1426.42	-983.51	1033.15	642605.02	414984.41	32°08'24.253"N	103°52'21.395"W	0.00	
8719.00†	89.649	133.590	7576.93	1526.42	-1052.46	1105.57	642677.45	414915.46	32°08'23.568"N	103°52'20.556"W	0.00	
8819.00†	89.649	133.590	7577.55	1626.42	-1121.41	1178.00	642749.87	414846.52	32°08'22.882"N	103°52'19.717"W	0.00	
8919.00†	89.649	133.590	7578:16	1726.42	-1190.36	1250.43	642822.29	414777.58	32°08'22.197"N	103°52¦18.878";W	0.00	78.5
9019.00†	89.649	133.590	7578.77	1826.42	-1259.30	1322.86	642894.71	414708.63	32°08'21.512"N	103°52'18.039"W	0.00	
9119.00†	89.649	133.590	7579.38	1926.42	-1328.25	1395.29	642967.14	414639.69	32°08'20.826"N	103°52'17.200"W	0.00	
9219.00†	89.649	133.590	7580.00	2026.41	-1397.20	1467.71	643039.56	414570.75	32°08'20.141"N	103°52'16.362"W	0.00	
9319.00†	89.649	133.590	7580.61	2126.41	-1466.15	1540.14	643111.98	414501.80	32°08'19.456"N	103°52'15.523"W	0.00	
9419.00†	89.649	.133.590	7581.22	2226.41	-1535.10	1612.57	643184.41	414432.86	32908'18:770"N	103°52'14.684"W	0.00	
9519.00†	89.649	133.590	7581.84	2326.41	-1604.05	1685.00	643256.83	414363.92	32°08'18.085"N	103°52'13.845"W	0.00	
9619.00†	89.649	133.590	7582.45	2426.41	-1672.99	1757.42	643329.25	414294.97	32°08'17.400"N	103°52'13.006"W	0.00	
9719.00†	89.649	133.590	7583.06	2526.40	-1741.94	1829.85	643401.67	414226.03	32°08'16.714"N	103°52'12.167"W	0.00	<u> </u>
9819.00†		133.590	7583.67	2626.40	-1810.89	1902.28	643474.10	414157.09	32°08'16.029"N	103°52'11.328"W	0.00	
9919.00†		133.590			-1879.84			414088.14	i	2103°52'10.490"W	A CONTRACTOR OF THE PARTY OF	14.
10019.00†		133.590		2826.40	-1948.79	2047.13	643618.94	414019.20	32°08'14.658"N	103°52'09.651"W	0.00	The second secon
10119.00†	89.649		7585.51	2926.40	-2017.74	2119.56	643691.36	413950.26	32°08'13.973"N	103°52'08.812"W	0.00	
10219.00†	89.649			3026.39	-2086.68	2191.99	643763.79	413881.31	32°08'13.287"N	103°52'07.973"W	0.00	
10319.00†		133.590		3126.39	-2155.63	2264.42	643836.21	413812.37	32°08'12.602"N	103°52'07.134"W	0.00	
10419:00†	THE RESERVE AND ADDRESS OF THE PARTY OF THE		Contract to with the same and the same and	and the second second second	-2224.58		Contract to the Contract Market or the Contract Contract	413743.43		%103°52'06.296"W		
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RODOR	ENCEWELEPATH IDENTIFICATIO	A 3. 3. 3. 3. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		
Operator	BOPCO, L.P.		Slot	No. 380H SHL
Area	Eddy County, NM	1	Well	No. 380H
Field	Poker Lake Unit		Wellbore	No. 380H PWB
Facility	Poker Lake Unit No. 380H			

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[°/100ft]	
10519.00†	89.649	133.590	7587.96	3326.39	-2293.53	2409.27	643981.05	413674.48	32°08'11.231"N	103°52'05.457"W	0.00	
10619.00†	89.649	133.590	7588.57	3426.39	-2362.48	2481.70	644053.48	413605.54	32°08'10.546"N	103°52'04.618"W	0.00	
10719.00†	89.649	133.590	7589.19	3526.39	-2431.42	2554.13	644125.90	413536.60	32°08'09.860"N	103°52'03.779"W	0.00	
10819.00†	89.649	133.590	7589.80	3626.38	-2500.37	2626.55	644198.32	413467.65	32°08'09.175"N	103°52'02.940"W	0.00	
10919.00†	89.649	133!590	7590.41	3726.38	-2569.32	2698.98	644270.74	413398.71	32°08'08.490"N	. 103°52'02.101"W	0.00	
11019.00†	89.649	133.590	7591.03	3826.38	-2638.27	2771.41	644343.17	413329.76	32°08'07.804"N	103°52'01.263"W	0.00	
11119.00†	89.649	133.590	7591.64	3926.38	-2707.22	2843.84	644415.59	413260.82	32°08'07.119"N	103°52'00.424"W	0.00	
11219.00†	89.649	133.590	7592.25	4026.38	-2776.17	2916.27	644488.01	413191.88	32°08'06.434"N	103°51'59.585"W	0.00	
11319.00†	89.649	133.590	7592.86	4126.37	-2845.11	2988.69	644560.43	413122.93	32°08'05.748"N	103°51'58.746"W	0.00	
11419.00†	89.649	133.590	7,593.48	4226.37	-2914.06	3061.12	644632.86	413053.99	32°08'05.063"N	103°51'57.908"W	0.00	
11519.00†	89.649	133.590	7594.09	4326.37	-2983.01	3133.55	644705.28	412985.05	32°08'04.377"N	103°51'57.069"W	0.00	
11619.00†	89.649	133.590	7594.70	4426.37	-3051.96	3205.98	644777.70	412916.10	32°08'03.692"N	103°51'56.230"W	0.00	
11719.00†	89.649	133.590	7595.31	4526.37	-3120.91	3278.40	644850.12	412847.16	32°08'03.007"N	103°51'55.391"W	0.00	
11819.00†	89.649	133.590	7595.93	4626.36	-3189.86	3350.83	644922.55	412778.22	32°08'02.321"N	103°51'54.552"W	0.00	
11919.00†	89.649	133.590	7596.54	4726:36	-3258.80	3423.26	644994.97	412709.27	32°08'01.636"N	103°51'53:7J4"W	0.00	
12019.00†	89.649	133.590	7597.15	4826.36	-3327.75	3495.69	645067.39	412640.33	32°08'00.950"N	103°51'52.875"W	0.00	
12119.00†	89.649	133.590	7597.76	4926.36	-3396.70	3568.11	645139.81	412571.39	32°08'00.265"N	103°51'52.036"W	0.00	
2219.00†	89.649	133.590	7598.38	5026.36	-3465.65	3640.54	645212.24	412502.44	32°07'59.580"N	103°51'51.197"W	0.00	
12319.00†	89.649	133.590	7598.99	5126.36	-3534.60	3712.97	645284.66	412433.50	32°07'58.894"N	103°51'50.359"W	0.00	
12419.00†	89.649	133.590	7599.60	5226.35	-3603.55	37,85.40	645357.08	412364.56	32°07'58.209"N	103°51'49.520"W	0.00	
12519.00†	89.649	133.590	7600.22	5326.35	-3672.49	3857.82	645429.50	412295.61	32°07'57.523"N	103°51'48.681"W	0.00	
2619.00†	89.649	133.590	7600.83	5426.35	-3741.44	3930.25	645501.93	412226.67	32°07'56.838"N	103°51'47.842"W	0.00	
12719.00†	89.649	133.590	7601.44	5526.35	-3810.39	4002.68	645574.35	412157.73	32°07'56.153"N	103°51'47.004"W	0.00	
2819.00†	89.649	133.590	7602.05	5626.35	-3879.34	4075.11	645646.77	412088.78	32°07'55.467"N	103°51'46.165"W	0.00	
2919.00†	89.649	133.590	7602.67	5726.34	-3948.29	4147.53	645719.19	412019.84	32°07'54.782"N	103°51'45!326"W	0.00	
12973.49	89 649	133 590	7603.00 ¹	promise and the same of the same of			410-141-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		32°07'54:408"N	103°51'44'.869"W	7	No.380H PBHL



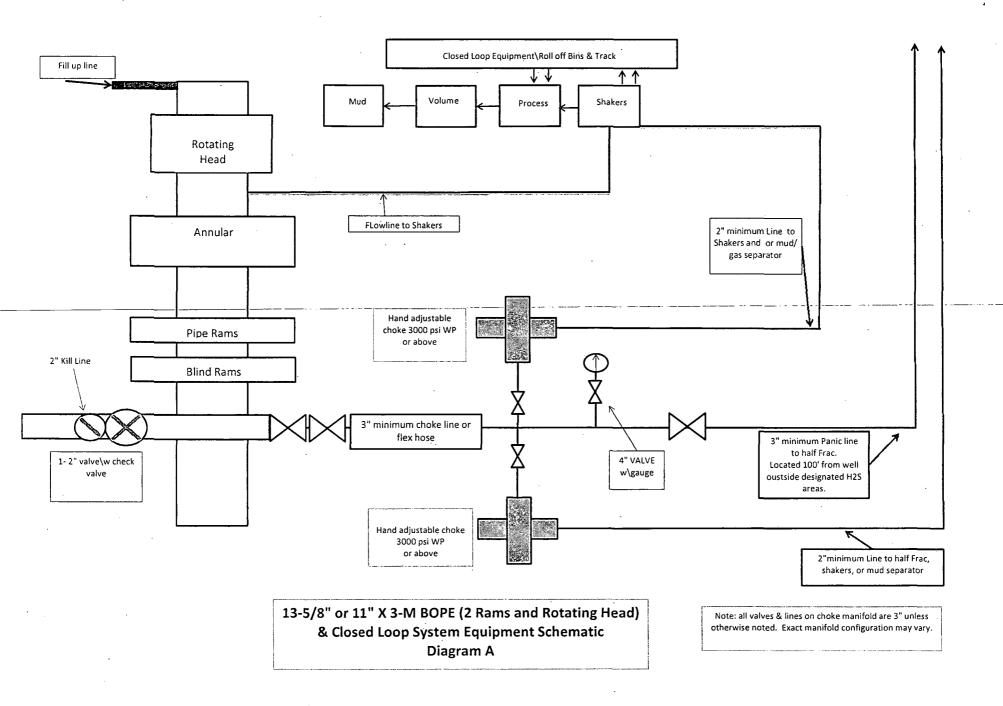
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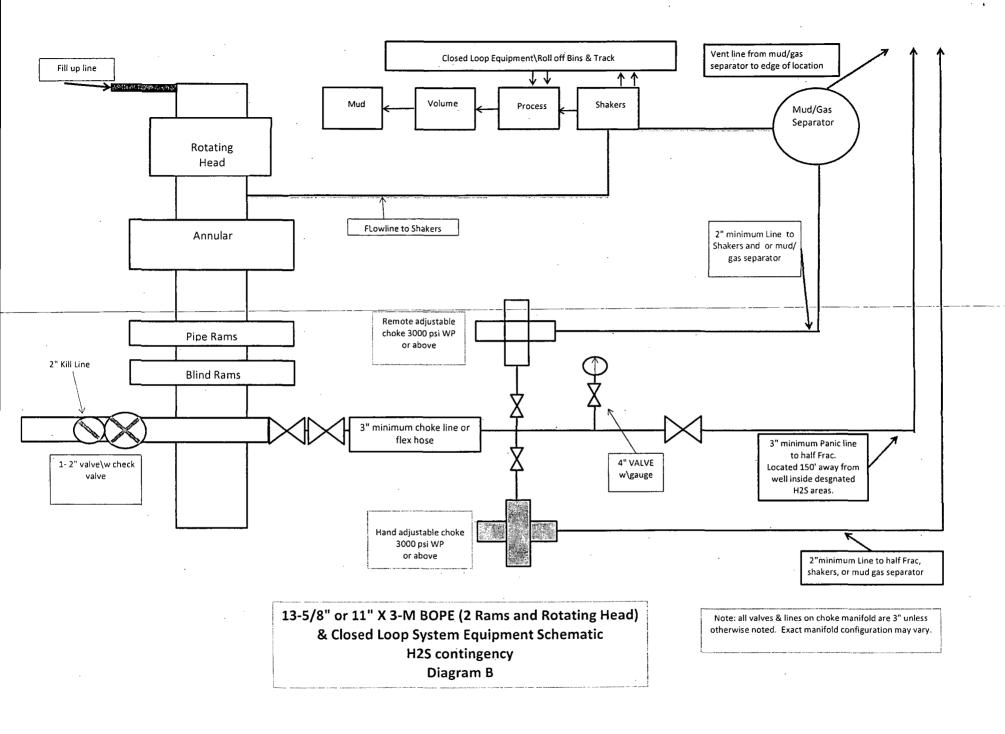


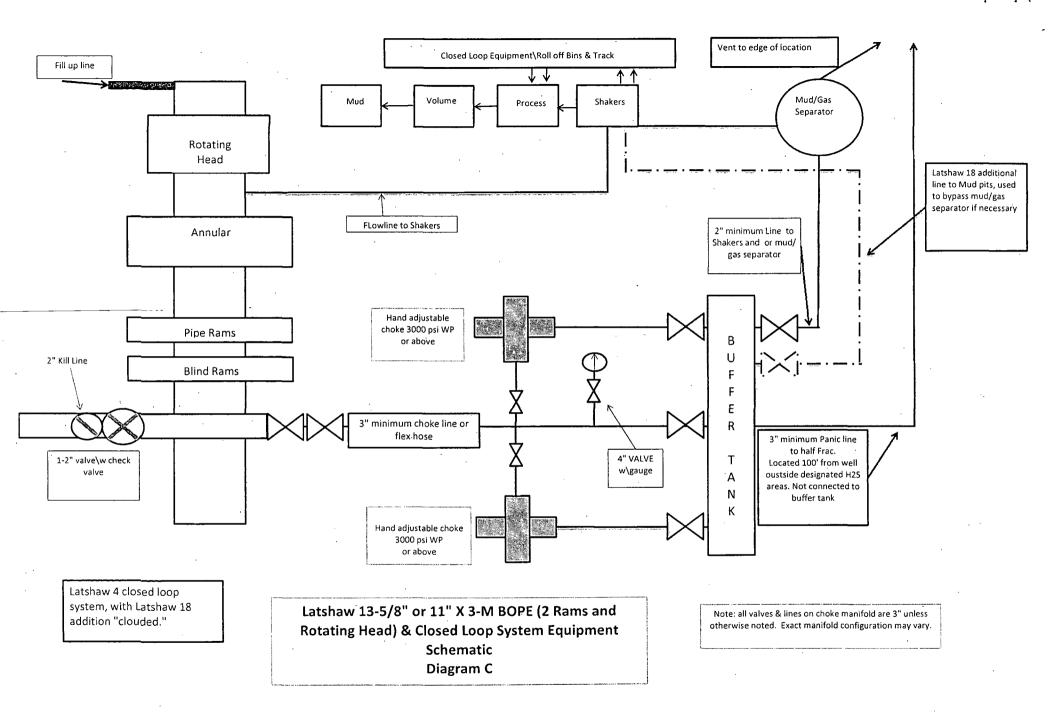
REGER	ENCEWEBEPATHIDENTIFICATIO	The state of the s	166 1666	
Operator	BOPCO, L.P.		Slot	No. 380H SHL
Area	Eddy County, NM		Well	No. 380H
Field	Poker Lake Unit		Wellbore	No. 380H PWB
;	Poker Lake Unit No. 380H			

TARGETS	encourage make it whi has it in the manuscripture are not it of an above		and the second s		**************************************	mija vistantya -4 a.4 va nyro vystijažysniy sy porvena v	arrivatori e de la companio de la proposició de la propos	VA s. 4. comp. 45. op greening of the Market and A. Construction of the September 2 (1996, 5) and described as the Construction of the Constructio	
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No. 380H PBHL	12973.49	7603.00	-3985.86	4187.00	645758.66	411982.27	32°07'54.408"N	10385144.869 "W	point

	SURVEY PROGRAM - Ref Wellbore: No. 380H PWB Ref Wellpath: Rev-A.0					
y. equation (Start MD	End MD	Positional Unco	ertainty Model	Log Name/Comment	Wellbore
-	[ft]	[ft]				
	19.00	12973.49	NaviTrak (Standard)			No. 380H PWB







MIDWEST

HOSE AND SPECIALTY INC.

11	NTERNAL	HYDROST	TATIC TEST	REPORT	T		
Custome	r:		P.O. Number:				
LATSHAW	DRILLING			RIG#4			
		HOSE SPECII	FICATIONS				
Туре:	CHOKE LIN	<u> </u>		Length:	30'		
I.D.	3"	INCHES	O.D.	6"	INCHES		
WORKING	PRESSURE	TEST PRESSUR	E BURST PRESSURE				
5,000	PSI	10,000	PSI		PSI		
		COUP	LINGS				
Type of E	nd Fitting 4 1/16 5K FL	ANGE			:		
Type of C	oupling: SWEDGED		MANUFACTURED BY MIDWEST HOSE & SPECIALTY				
PROCEDURE							
		rpressure tested w TEST PRESSURE	nith water at ambient temperature. ACTUAL BURST PRESSURE:				
	1	MIN.			O PSI		
COMMEN	SO#81610 Hose is cove wraped with	ered with stainl fire resistant v	ermiculite coat	ed fiberglass	NAGE.		
Date:	3/2/2011	Tested By: BOBBY FINK	gives complete	Approved: MENDI JA			

Internal Hydrostatic Test Graph

April 4, 2012

Customer: Latshaw

Pick Ticket #: 81610

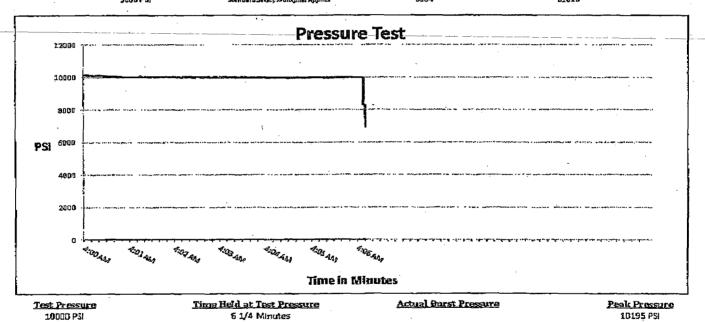
Midwest Hose & Specialty, Inc.

Hose Specifications

Hose Type	Length			
D	30"			
LO.	<u>O.D.</u>			
3"	4 15/32			
Working Pressure	Burst Pressure			
Snon PSI	Standard Suface Madeinition &			

Verification

Type of Fitting	Coupling Method
41/15 SK	5wage
Die Size	Final O.D.
5.12"	5.16"
Hose Serial #	Hose Assembly Serial #
6884	B1610



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

Tested By: Donnie Mclemore

Approved By: Bobby Fink

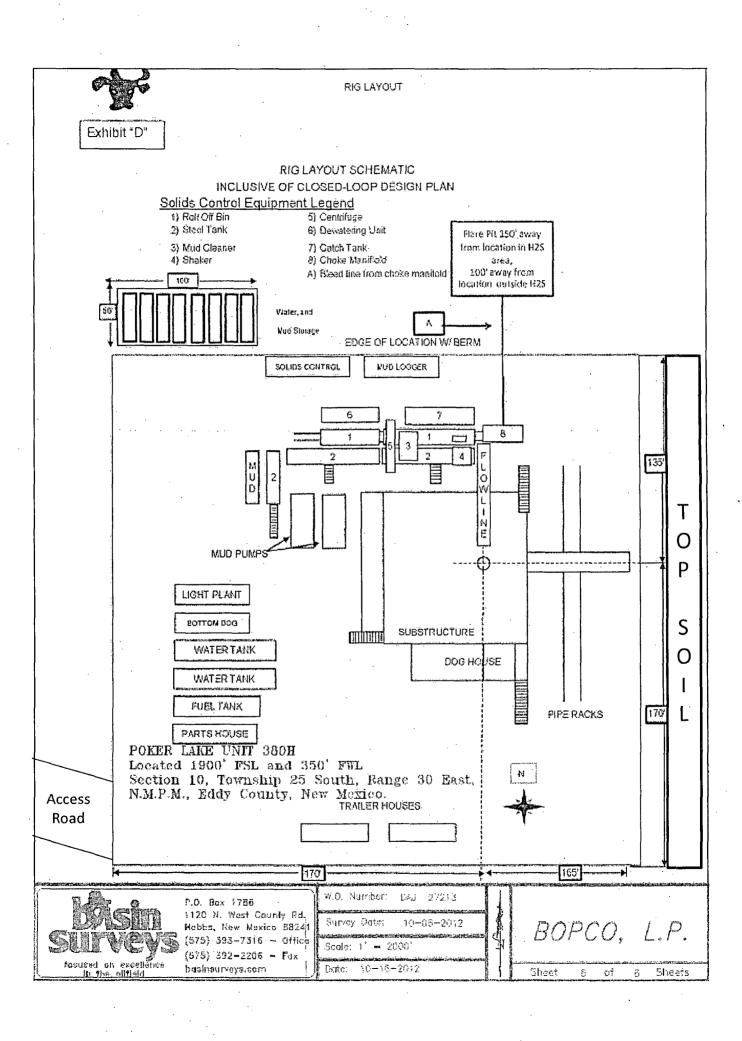


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VII. General Information

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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 H_2S 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, minutes,

seconds.

Total Time to Complete Assignment:

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

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 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 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 H₂S service.

Well Control Equipment:

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

Communication Equipment:

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

Well Testing:

There will be no drill stem testing.

Evacuation Plan:

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

Designated Areas:

Parking and Visitor area:

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

Safe Briefing Areas:

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

NOTE:

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

EVACUATION PLAN

General Plan

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

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

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

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

See Emergency Action Plan

Contacting Authorities

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

H₂S CONTINGENCY PLAN EMERGENCY CONTACTS

BOPCO L.P. Midland Office

432-683-2277

Key Pe	ersonnel		
	Name	Title	Cell Phone Number
	Stephen Martinez	Drilling Supt.	432-556-0262
, .	Buddy Jenkins	Assistant Supt	
	Bill Dannels	Engineer	
	Pete Lensing	Engineer	432-557-7157
	Charles Warne	Engineer	432-894-1392
	Artesia		
	Ambulance		911
	State Folice		575-746-2703
	Sheriff's Office		575-746-9888
	Fire Department	wine Committee	575-746-2701
	Local Emergency Plan	ining Committee	3/3-/40-2122
	New Mexico Oil Conse	ervation Division	575-748-1283
	<u>Carlsbad</u>	:	
	Ambulance		911
	State Police		575-885-3137
	City Police		575-885-2111
	Olicilii 3 Ollice		575-887-7551
	· ii o b o paramona		575-887-3798
		ning Committee	
	US Bureau of Land Ma	inagement	575-887-6544
		cy Response Commission (Santa Fe	
	24 Hour	Control of the Contro	505-827-9126
	New Mexico State Eme	ergency Operations Center	505-476-9635
	National Emergency R	esponse Center (Washington, DC)_	800-424-8802
	Other		•
	Wild Well Control	43	2-550-6202 (Permian Basin)
	Cudd PressureControl	432-580-3544 or 43	2-570-5300 (Permian Basin)
	Flight For Life - 4000 2	24 th St. Lubbock, Texas	806-743-9911
	Aerocare - R3, Box 49	F, Lubbock, Texas	806-747-8923
	Med Flight Air Amb - 2	2301 Yale Blvd SE #D3, Albuq., NM_	505-842-4433
		2505 Clark Carr Loop SE, Albuq., N	
		- 3317 NW Cnty Rd, Hobbs, NM	575-393-3093
	Total Safety - 3229 Inc	dustrial Dr., Hobbs, NM	575-392-2973

TOXIC EFFECTS OF HYDROGEN SULFIDE

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

Table I - TOXICITY OF VARIOUS GASES

Common 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

- 1. 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.
- 4. 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

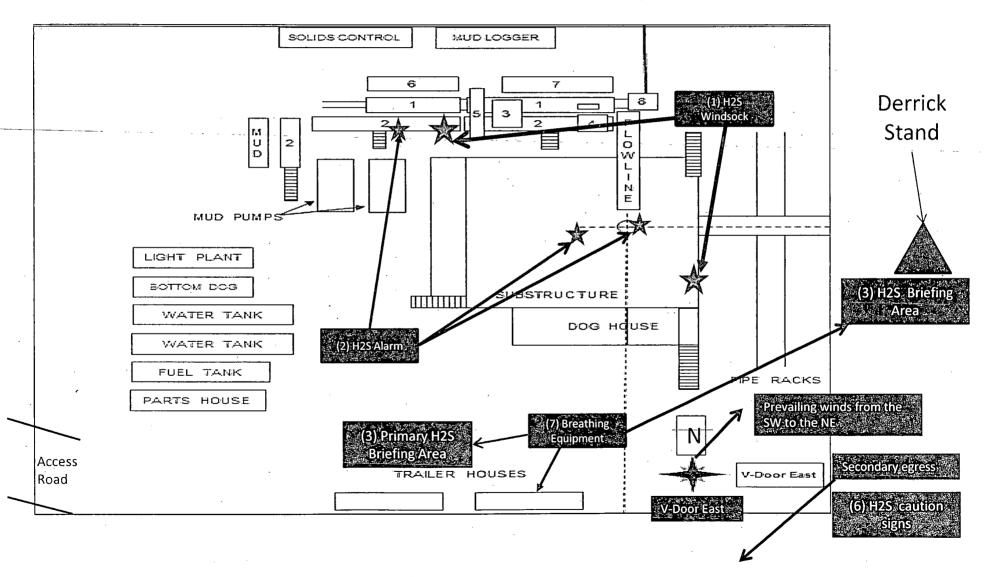
DO NOT PANIC - REMAIN CALM - THINK

- 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.

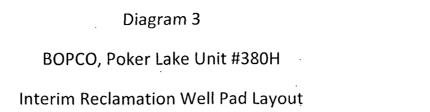
Proposed H2S Safety Schematic

- 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

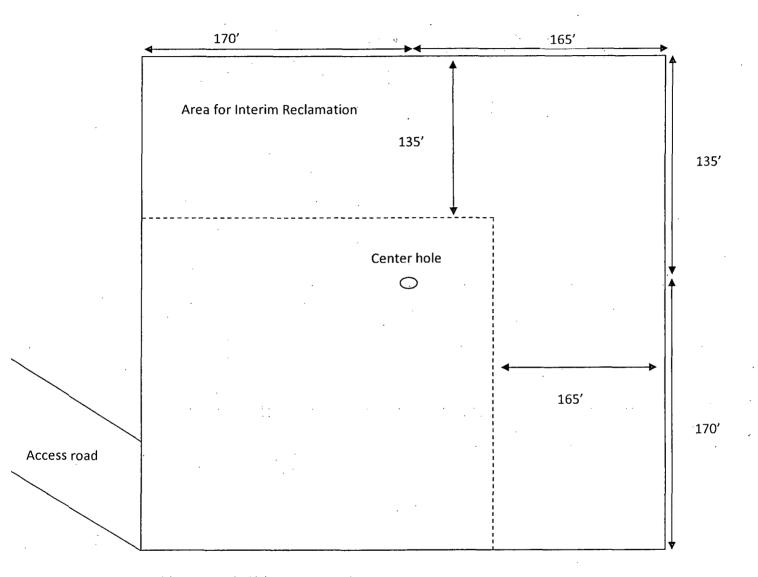


Location On-Site Notes

Location on-site conducted by Cecil Watkins-BOPCO L.P. Todd Carpenter-BOPCO L.P., John Fast-BLM, and Jason Morgan -Basin Survey on 9/25/2012. The Poker Lake Unit 380H was moved to section 10 to a new surface footage call located at 1900' FSL & 350' FWL of Sec 10-T25S-R30E to get away from draw. Access road will be off of El Paso Pipeline Road to the southwest corner of proposed pad. Topsoil will be stockpiled to the to the east side of pad and the frac pad will be on the west northwest corner



North



PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BOPCO, L. P.
LEASE NO.:	NMLC-063873A
WELL NAME & NO.:	POKER LAKE UNIT 380H
SURFACE HOLE FOOTAGE:	1900' FSL & 0350' FWL
BOTTOM HOLE FOOTAGE	2150' FNL & 0800' FEL Sec. 15, T. 25 S., R 30 E.,
LOCATION:	Section 10, T. 25S., 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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