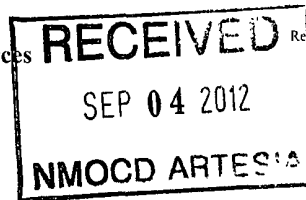


District I
1625 N French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-101
Revised December 16, 2011
Permit

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address BOPCO, L. P., P. O. Box 2760, Midland, TX 79702		² OGRID Number 260737
		³ API Number 30-015-40661
⁴ Property Code 306402	⁵ Property Name Poker Lake Unit	⁶ Well No 371H

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	2	25 S	30 E		75	South	220	FEL	Eddy

⁸ Pool Information

Corral Canyon, Delaware NE	96209
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Additional Well Information

⁹ Work Type New Well	¹⁰ Well Type Oil	¹¹ Cable/Rotary	¹² Lease Type State	¹³ Ground Level Elevation 3,353'
¹⁴ Multiple N	¹⁵ Proposed Depth 13,206' MD	¹⁶ Formation LBC "8A" Sand	¹⁷ Contractor	¹⁸ Spud Date 03/01/2013
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

¹⁹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17-1/2"	13-3/8"	48	1,302'	1130	Surface
Int 1	12-1/4"	9-5/8"	40	4,066'	1487	Surface
Int 2	8-3/4"	7"	26	7,945'	527	3,566'
Production	6-1/8"	4-1/2"	11.6	13,206'	No Cmt	NA

Casing/Cement Program: Additional Comments

C-144 closed loop permit will be submitted separately.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3500	Hydrill
Double Ram	5000	5000	Shaffer

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC D guidelines ☐ , a general permit ☒ , or an (attached) alternative OCD-approved plan ☐ .		OIL CONSERVATION DIVISION	
Signature: <i>Jeremy Braden</i> Printed name: Jeremy Braden		Approved By: <i>T.C. Shepard</i> Title: <i>Geologist</i>	
Title: Engineering Assistant		Approved Date: <i>9/10/2012</i>	Expiration Date: <i>9/10/2014</i>
E-mail Address: jdbraden@basspet.com			
Date: <i>8-27-12</i>	Phone: 432-683-2277	Conditions of Approval Attached	

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

API Number 30-015-40661	Pool Code 96209	Pool Name Corral Canyon, Delaware NE
Property Code 306402	Property Name POKER LAKE UNIT	Well Number 371H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3353'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	25 S	30 E		75	SOUTH	220	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 4	2	25 S	30 E		550	NORTH	400	WEST	EDDY
Dedicated Acres 280.10	Joint or Infill	Consolidation Code	Order No.						

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

BOTTOM HOLE LOCATION Lat - N 32°09'55.85" Long - W 103°51'30.02" NMSPC- N 424259.257 E 646981.230 (NAD-27) SURFACE LOCATION Lat - N 32°09'09.02" Long - W 103°50'35.69" NMSPC- N 419548.75 E 651672.72 (NAD-27)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Jeremy Braden</i> Date: <i>8-27-12</i> Printed Name: Jeremy Braden Email Address: jbraden@basspet.com SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date: <i>8-27-12</i> Signature & Seal of Professional Surveyor: <i>Gary L. Jones</i> Certificate No. Gary L. Jones 7977 BASIN SURVEYS 26955
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BOPCO, L.P.

Location: Eddy County, NM
Field: Poker Lake Unit
Facility: Poker Lake Unit No. 371H

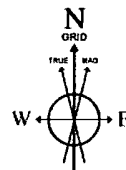
Slot: No. 371H SHL
Well: No. 371H
Wellbore: No. 371H PWB



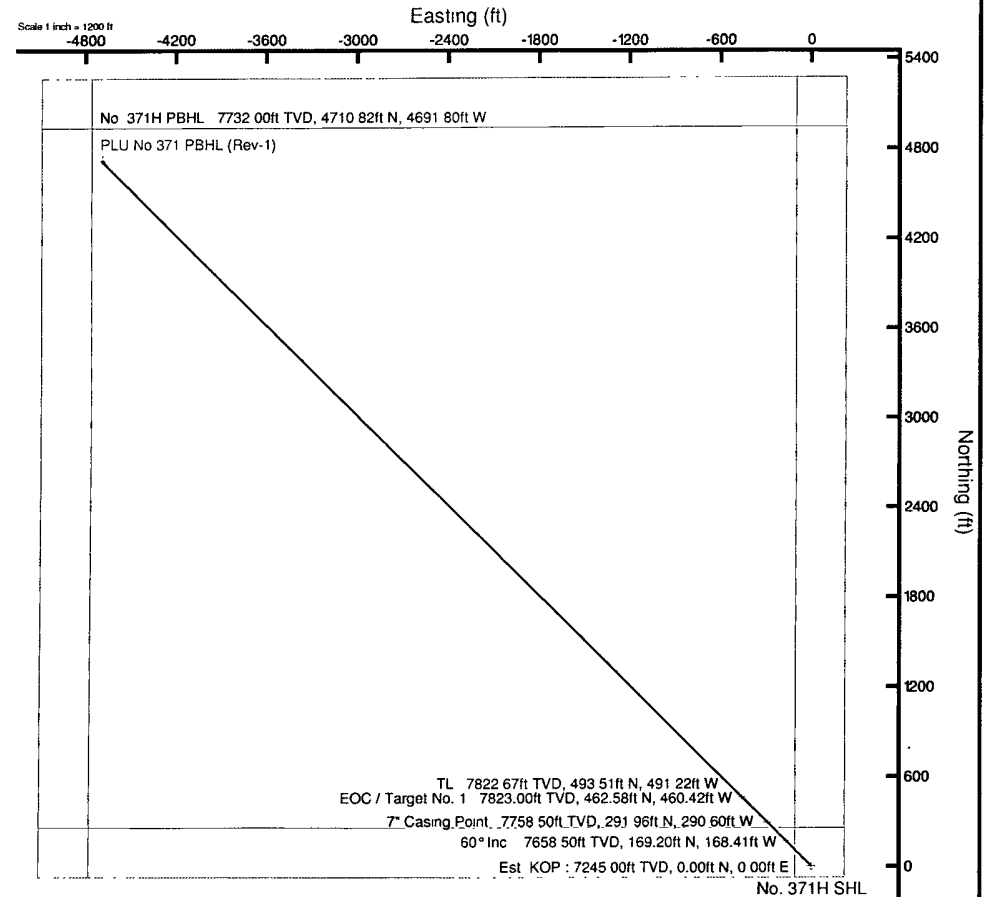
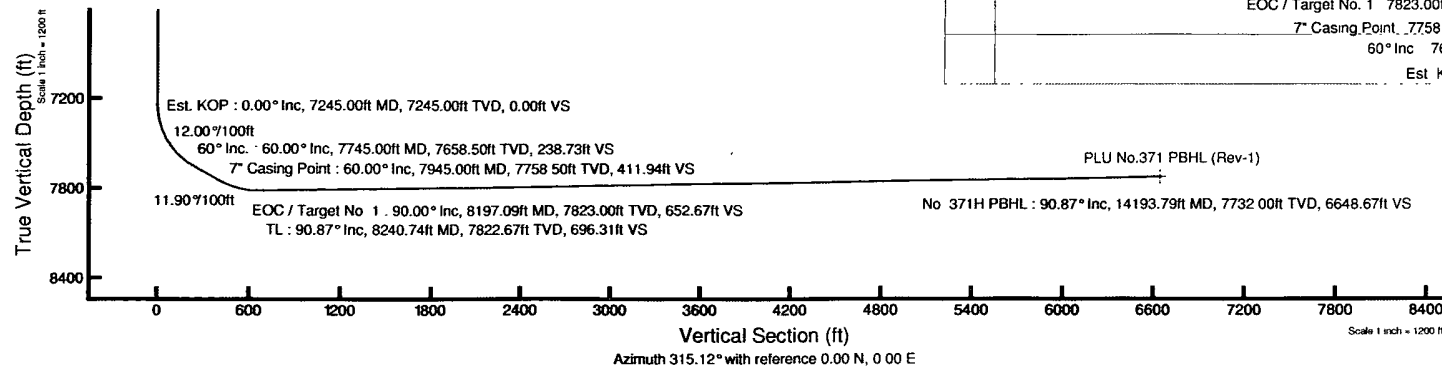
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	19.00	0.000	315.134	19.00	0.00	0.00	0.00	0.00
Est. KOP	7245.00	0.000	315.134	7245.00	0.00	0.00	0.00	0.00
60° Inc	7745.00	60.000	315.134	7658.50	169.20	-168.41	12.00	238.73
7" Casing Point	7945.00	60.000	315.134	7758.50	291.96	-290.60	0.00	411.94
EOC / Target No. 1	8197.09	90.000	315.134	7823.00	462.58	-460.42	11.90	652.67
TL	8240.74	90.873	315.114	7822.67	493.51	-491.22	2.00	696.31
No. 371H PBHL	14193.79	90.873	315.114	7732.00	4710.82	-4691.80	0.00	6648.67

Plot reference wellpath is Rev-B.0	
True vertical depths are referenced to Rig on No. 371H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 371H SHL (KB)	North Reference: Grid north
Rig on No. 371H SHL (KB) to Mean Sea Level: 3372 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No. 371H SHL): -3353 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentry on 08/20/2012



BGGM (1945.0 to 2014.0) Dip: 60.00° Field: 48421.4 nT
Magnetic North is 7.67 degrees East of True North (at 08/20/2012)
Grid North is 0.26 degrees East of True North
To correct azimuth from True to Grid subtract 0.26 degrees
To correct azimuth from Magnetic to Grid add 7.41 degrees
For example, if the Magnetic North Azimuth = 90 degrees, then the Grid North Azimuth = 90 + 7.41 = 97.41



Rev-B.0



Planned Wellpath Report

Rev-B.0
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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 371H SHL
Area	Eddy County, NM	Well	No. 371H
Field	Poker Lake Unit	Wellbore	No. 371H PWB
Facility	Poker Lake Unit No. 371H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.999935	Report Generated	08/20/2012 at 10:01:07 AM
Convergence at slot	0.26° East	Database/Source file	WA Midland/No._371H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W
Facility Reference Pt			651672.72	419548.75	32°09'09.026"N	103°50'35.692"W
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 371H SHL (KB) to Facility Vertical Datum	19.00ft
Horizontal Reference Pt	Slot	Rig on No. 371H SHL (KB) to Mean Sea Level	3372.00ft
Vertical Reference Pt	Rig on No. 371H SHL (KB)	Rig on No. 371H SHL (KB) to Mud Line at Slot (No. 371H SHL)	19.00ft
MD Reference Pt	Rig on No. 371H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	315.12°



Planned Wellpath Report

Rev-B.0
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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 371H SHL
Area	Eddy County, NM	Well	No. 371H
Field	Poker Lake Unit	Wellbore	No. 371H PWB
Facility	Poker Lake Unit No. 371H		

WELLPATH DATA (157 stations) † = interpolated/extrapolated station

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	315.134	0.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
19.00	0.000	315.134	19.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	Tie On
119.00†	0.000	315.134	119.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
219.00†	0.000	315.134	219.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
319.00†	0.000	315.134	319.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
419.00†	0.000	315.134	419.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
519.00†	0.000	315.134	519.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
619.00†	0.000	315.134	619.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
719.00†	0.000	315.134	719.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
819.00†	0.000	315.134	819.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
919.00†	0.000	315.134	919.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
1019.00†	0.000	315.134	1019.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
1119.00†	0.000	315.134	1119.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
1219.00†	0.000	315.134	1219.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
1319.00†	0.000	315.134	1319.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
1322.00†	0.000	315.134	1322.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	Rustler
1419.00†	0.000	315.134	1419.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
1519.00†	0.000	315.134	1519.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
1582.00†	0.000	315.134	1582.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	Salado
1619.00†	0.000	315.134	1619.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
1719.00†	0.000	315.134	1719.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
1819.00†	0.000	315.134	1819.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
1919.00†	0.000	315.134	1919.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
2019.00†	0.000	315.134	2019.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
2119.00†	0.000	315.134	2119.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
2219.00†	0.000	315.134	2219.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
2319.00†	0.000	315.134	2319.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
2419.00†	0.000	315.134	2419.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
2519.00†	0.000	315.134	2519.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
2619.00†	0.000	315.134	2619.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
2719.00†	0.000	315.134	2719.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
2819.00†	0.000	315.134	2819.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
2919.00†	0.000	315.134	2919.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
3019.00†	0.000	315.134	3019.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
3119.00†	0.000	315.134	3119.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
3219.00†	0.000	315.134	3219.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
3319.00†	0.000	315.134	3319.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
3419.00†	0.000	315.134	3419.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
3519.00†	0.000	315.134	3519.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
3619.00†	0.000	315.134	3619.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
3719.00†	0.000	315.134	3719.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
3819.00†	0.000	315.134	3819.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
3842.00†	0.000	315.134	3842.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	Basalt
3919.00†	0.000	315.134	3919.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
4019.00†	0.000	315.134	4019.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	



Planned Wellpath Report

Rev-B.0
Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 371H SHL
Area	Eddy County, NM	Well	No. 371H
Field	Poker Lake Unit	Wellbore	No. 371H PWB
Facility	Poker Lake Unit No. 371H		

WELLPATH DATA (157 stations) † = interpolated/extrapolated station												
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
4052.00†	0.000	315.134	4052.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	Lamar
4086.00†	0.000	315.134	4086.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	Ramsey
4119.00†	0.000	315.134	4119.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
4219.00†	0.000	315.134	4219.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
4319.00†	0.000	315.134	4319.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
4419.00†	0.000	315.134	4419.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
4519.00†	0.000	315.134	4519.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
4619.00†	0.000	315.134	4619.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
4719.00†	0.000	315.134	4719.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
4819.00†	0.000	315.134	4819.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
4919.00†	0.000	315.134	4919.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
4982.00†	0.000	315.134	4982.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	Cherry Canyon
5019.00†	0.000	315.134	5019.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
5119.00†	0.000	315.134	5119.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
5219.00†	0.000	315.134	5219.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
5319.00†	0.000	315.134	5319.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
5419.00†	0.000	315.134	5419.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
5519.00†	0.000	315.134	5519.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
5619.00†	0.000	315.134	5619.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
5719.00†	0.000	315.134	5719.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
5819.00†	0.000	315.134	5819.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
5919.00†	0.000	315.134	5919.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
6019.00†	0.000	315.134	6019.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
6119.00†	0.000	315.134	6119.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
6219.00†	0.000	315.134	6219.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
6250.00†	0.000	315.134	6250.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	Brushy Canyon
6319.00†	0.000	315.134	6319.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
6419.00†	0.000	315.134	6419.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
6519.00†	0.000	315.134	6519.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
6619.00†	0.000	315.134	6619.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
6719.00†	0.000	315.134	6719.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
6819.00†	0.000	315.134	6819.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
6919.00†	0.000	315.134	6919.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
7019.00†	0.000	315.134	7019.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
7119.00†	0.000	315.134	7119.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
7219.00†	0.000	315.134	7219.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	
7245.00	0.000	315.134	7245.00	0.00	0.00	0.00	651672.72	419548.75	32°09'09.026"N	103°50'35.692"W	0.00	Est. KOP
7319.00†	8.880	315.134	7318.70	5.72	4.06	-4.04	651668.68	419552.81	32°09'09.067"N	103°50'35.739"W	12.00	
7419.00†	20.880	315.134	7415.17	31.36	22.22	-22.12	651650.60	419570.97	32°09'09.247"N	103°50'35.948"W	12.00	
7519.00†	32.880	315.134	7504.21	76.49	54.21	-53.96	651618.77	419602.96	32°09'09.565"N	103°50'36.317"W	12.00	
7619.00†	44.880	315.134	7581.91	139.14	98.62	-98.16	651574.57	419647.36	32°09'10.007"N	103°50'36.829"W	12.00	
7687.80†	53.136	315.134	7627.00	191.02	135.39	-134.76	651537.97	419684.13	32°09'10.372"N	103°50'37.252"W	12.00	Lower Brushy Canyon 8A
7719.00†	56.880	315.134	7644.89	216.58	153.50	-152.79	651519.94	419702.24	32°09'10.552"N	103°50'37.461"W	12.00	
7745.00	60.000	315.134	7658.50	238.73	169.20	-168.41	651504.32	419717.94	32°09'10.708"N	103°50'37.642"W	12.00	60° Inc.
7819.00†	60.000	315.134	7695.50	302.82	214.63	-213.62	651459.11	419763.36	32°09'11.160"N	103°50'38.165"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 371H SHL
Area	Eddy County, NM	Well	No. 371H
Field	Poker Lake Unit	Wellbore	No. 371H PWB
Facility	Poker Lake Unit No. 371H		

WELLPATH DATA (157 stations) † = interpolated/extrapolated station

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
7919.00†	60.000	315.134	7745.50	389.42	276.01	-274.72	651398.02	419824.74	32°09'11.770"N	103°50'38.873"W	0.00	
7945.00	60.000	315.134	7758.50	411.94	291.96	-290.60	651382.14	419840.69	32°09'11.929"N	103°50'39.057"W	0.00	7" Casing Point
8019.00†	68.806	315.134	7790.44	478.61	339.22	-337.64	651335.11	419887.95	32°09'12.398"N	103°50'39.601"W	11.90	
8119.00†	80.707	315.134	7816.68	574.92	407.48	-405.58	651267.17	419956.20	32°09'13.077"N	103°50'40.388"W	11.90	
8197.09	90.000	315.134	7823.00	652.67	462.58	-460.42	651212.33	420011.30	32°09'13.625"N	103°50'41.023"W	11.90	EOC / Target No. 1
8219.00†	90.438	315.124	7822.92	674.58	478.11	-475.88	651196.87	420026.83	32°09'13.779"N	103°50'41.202"W	2.00	
8240.74	90.873	315.114	7822.67	696.31	493.51	-491.22	651181.53	420042.23	32°09'13.932"N	103°50'41.380"W	2.00	TL
8319.00†	90.873	315.114	7821.48	774.56	548.95	-546.44	651126.31	420097.67	32°09'14.483"N	103°50'42.019"W	0.00	
8419.00†	90.873	315.114	7819.95	874.55	619.80	-617.00	651055.76	420168.51	32°09'15.187"N	103°50'42.836"W	0.00	
8519.00†	90.873	315.114	7818.43	974.54	690.64	-687.57	650985.20	420239.34	32°09'15.891"N	103°50'43.653"W	0.00	
8619.00†	90.873	315.114	7816.91	1074.53	761.48	-758.13	650914.64	420310.18	32°09'16.596"N	103°50'44.470"W	0.00	
8719.00†	90.873	315.114	7815.38	1174.52	832.33	-828.69	650844.09	420381.02	32°09'17.300"N	103°50'45.287"W	0.00	
8819.00†	90.873	315.114	7813.86	1274.51	903.17	-899.25	650773.53	420451.86	32°09'18.004"N	103°50'46.104"W	0.00	
8919.00†	90.873	315.114	7812.34	1374.50	974.01	-969.81	650702.97	420522.70	32°09'18.708"N	103°50'46.921"W	0.00	
9019.00†	90.873	315.114	7810.81	1474.48	1044.85	-1040.38	650632.41	420593.53	32°09'19.412"N	103°50'47.738"W	0.00	
9119.00†	90.873	315.114	7809.29	1574.47	1115.70	-1110.94	650561.86	420664.37	32°09'20.117"N	103°50'48.555"W	0.00	
9219.00†	90.873	315.114	7807.77	1674.46	1186.54	-1181.50	650491.30	420735.21	32°09'20.821"N	103°50'49.372"W	0.00	
9319.00†	90.873	315.114	7806.25	1774.45	1257.38	-1252.06	650420.74	420806.05	32°09'21.525"N	103°50'50.189"W	0.00	
9419.00†	90.873	315.114	7804.72	1874.44	1328.23	-1322.62	650350.19	420876.89	32°09'22.229"N	103°50'51.006"W	0.00	
9519.00†	90.873	315.114	7803.20	1974.43	1399.07	-1393.18	650279.63	420947.73	32°09'22.933"N	103°50'51.823"W	0.00	
9619.00†	90.873	315.114	7801.68	2074.41	1469.91	-1463.75	650209.07	421018.56	32°09'23.637"N	103°50'52.640"W	0.00	
9719.00†	90.873	315.114	7800.15	2174.40	1540.75	-1534.31	650138.51	421089.40	32°09'24.342"N	103°50'53.457"W	0.00	
9819.00†	90.873	315.114	7798.63	2274.39	1611.60	-1604.87	650067.96	421160.24	32°09'25.046"N	103°50'54.274"W	0.00	
9919.00†	90.873	315.114	7797.11	2374.38	1682.44	-1675.43	649997.40	421231.08	32°09'25.750"N	103°50'55.091"W	0.00	
10019.00†	90.873	315.114	7795.58	2474.37	1753.28	-1745.99	649926.84	421301.92	32°09'26.454"N	103°50'55.908"W	0.00	
10119.00†	90.873	315.114	7794.06	2574.36	1824.13	-1816.56	649856.28	421372.75	32°09'27.158"N	103°50'56.725"W	0.00	
10219.00†	90.873	315.114	7792.54	2674.34	1894.97	-1887.12	649785.73	421443.59	32°09'27.862"N	103°50'57.542"W	0.00	
10319.00†	90.873	315.114	7791.01	2774.33	1965.81	-1957.68	649715.17	421514.43	32°09'28.567"N	103°50'58.360"W	0.00	
10419.00†	90.873	315.114	7789.49	2874.32	2036.65	-2028.24	649644.61	421585.27	32°09'29.271"N	103°50'59.177"W	0.00	
10519.00†	90.873	315.114	7787.97	2974.31	2107.50	-2098.80	649574.06	421656.11	32°09'29.975"N	103°50'59.994"W	0.00	
10619.00†	90.873	315.114	7786.45	3074.30	2178.34	-2169.37	649503.50	421726.94	32°09'30.679"N	103°51'00.811"W	0.00	
10719.00†	90.873	315.114	7784.92	3174.29	2249.18	-2239.93	649432.94	421797.78	32°09'31.383"N	103°51'01.628"W	0.00	
10819.00†	90.873	315.114	7783.40	3274.27	2320.03	-2310.49	649362.38	421868.62	32°09'32.087"N	103°51'02.445"W	0.00	
10919.00†	90.873	315.114	7781.88	3374.26	2390.87	-2381.05	649291.83	421939.46	32°09'32.792"N	103°51'03.262"W	0.00	
11019.00†	90.873	315.114	7780.35	3474.25	2461.71	-2451.61	649221.27	422010.30	32°09'33.496"N	103°51'04.079"W	0.00	
11119.00†	90.873	315.114	7778.83	3574.24	2532.55	-2522.17	649150.71	422081.14	32°09'34.200"N	103°51'04.896"W	0.00	
11219.00†	90.873	315.114	7777.31	3674.23	2603.40	-2592.74	649080.16	422151.97	32°09'34.904"N	103°51'05.713"W	0.00	
11319.00†	90.873	315.114	7775.78	3774.22	2674.24	-2663.30	649009.60	422222.81	32°09'35.608"N	103°51'06.530"W	0.00	
11419.00†	90.873	315.114	7774.26	3874.21	2745.08	-2733.86	648939.04	422293.65	32°09'36.312"N	103°51'07.347"W	0.00	
11519.00†	90.873	315.114	7772.74	3974.19	2815.92	-2804.42	648868.48	422364.49	32°09'37.016"N	103°51'08.165"W	0.00	
11619.00†	90.873	315.114	7771.22	4074.18	2886.77	-2874.98	648797.93	422435.33	32°09'37.721"N	103°51'08.982"W	0.00	
11719.00†	90.873	315.114	7769.69	4174.17	2957.61	-2945.55	648727.37	422506.16	32°09'38.425"N	103°51'09.799"W	0.00	
11819.00†	90.873	315.114	7768.17	4274.16	3028.45	-3016.11	648656.81	422577.00	32°09'39.129"N	103°51'10.616"W	0.00	
11919.00†	90.873	315.114	7766.65	4374.15	3099.30	-3086.67	648586.26	422647.84	32°09'39.833"N	103°51'11.433"W	0.00	
12019.00†	90.873	315.114	7765.12	4474.14	3170.14	-3157.23	648515.70	422718.68	32°09'40.537"N	103°51'12.250"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 371H SHL
Area	Eddy County, NM	Well	No. 371H
Field	Poker Lake Unit	Wellbore	No. 371H PWB
Facility	Poker Lake Unit No. 371H		

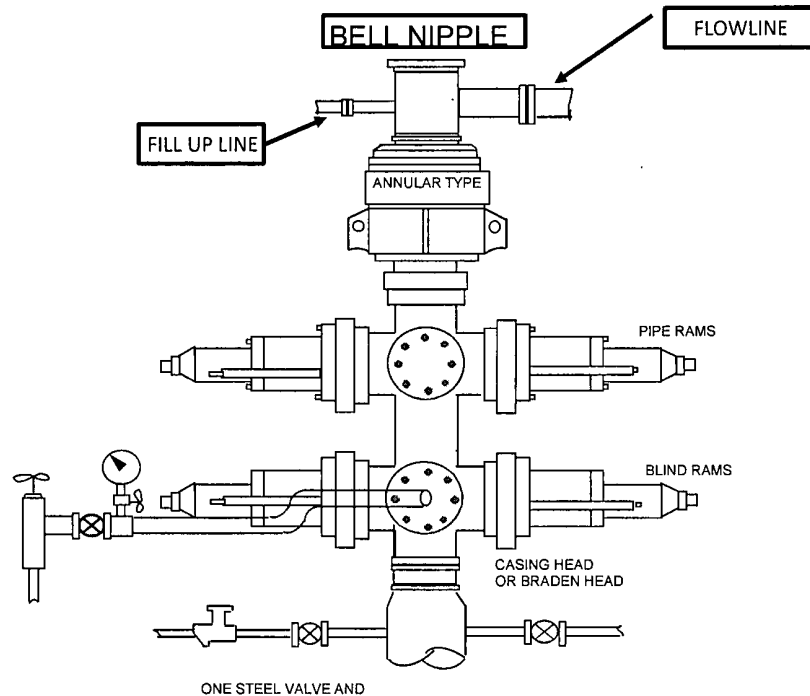
WELLPATH DATA (157 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12119.00†	90.873	315.114	7763.60	4574.12	3240.98	-3227.79	648445.14	422789.52	32°09'41.241"N	103°51'13.067"W	0.00	
12219.00†	90.873	315.114	7762.08	4674.11	3311.82	-3298.35	648374.58	422860.35	32°09'41.945"N	103°51'13.884"W	0.00	
12319.00†	90.873	315.114	7760.55	4774.10	3382.67	-3368.92	648304.03	422931.19	32°09'42.650"N	103°51'14.702"W	0.00	
12419.00†	90.873	315.114	7759.03	4874.09	3453.51	-3439.48	648233.47	423002.03	32°09'43.354"N	103°51'15.519"W	0.00	
12519.00†	90.873	315.114	7757.51	4974.08	3524.35	-3510.04	648162.91	423072.87	32°09'44.058"N	103°51'16.336"W	0.00	
12619.00†	90.873	315.114	7755.98	5074.07	3595.20	-3580.60	648092.36	423143.71	32°09'44.762"N	103°51'17.153"W	0.00	
12719.00†	90.873	315.114	7754.46	5174.05	3666.04	-3651.16	648021.80	423214.54	32°09'45.466"N	103°51'17.970"W	0.00	
12819.00†	90.873	315.114	7752.94	5274.04	3736.88	-3721.73	647951.24	423285.38	32°09'46.170"N	103°51'18.787"W	0.00	
12919.00†	90.873	315.114	7751.42	5374.03	3807.72	-3792.29	647880.68	423356.22	32°09'46.874"N	103°51'19.604"W	0.00	
13019.00†	90.873	315.114	7749.89	5474.02	3878.57	-3862.85	647810.13	423427.06	32°09'47.578"N	103°51'20.422"W	0.00	
13119.00†	90.873	315.114	7748.37	5574.01	3949.41	-3933.41	647739.57	423497.90	32°09'48.283"N	103°51'21.239"W	0.00	
13219.00†	90.873	315.114	7746.85	5674.00	4020.25	-4003.97	647669.01	423568.74	32°09'48.987"N	103°51'22.056"W	0.00	
13319.00†	90.873	315.114	7745.32	5773.98	4091.10	-4074.54	647598.46	423639.57	32°09'49.691"N	103°51'22.873"W	0.00	
13419.00†	90.873	315.114	7743.80	5873.97	4161.94	-4145.10	647527.90	423710.41	32°09'50.395"N	103°51'23.690"W	0.00	
13519.00†	90.873	315.114	7742.28	5973.96	4232.78	-4215.66	647457.34	423781.25	32°09'51.099"N	103°51'24.507"W	0.00	
13619.00†	90.873	315.114	7740.75	6073.95	4303.62	-4286.22	647386.78	423852.09	32°09'51.803"N	103°51'25.325"W	0.00	
13719.00†	90.873	315.114	7739.23	6173.94	4374.47	-4356.78	647316.23	423922.93	32°09'52.507"N	103°51'26.142"W	0.00	
13819.00†	90.873	315.114	7737.71	6273.93	4445.31	-4427.34	647245.67	423993.76	32°09'53.211"N	103°51'26.959"W	0.00	
13919.00†	90.873	315.114	7736.19	6373.92	4516.15	-4497.91	647175.11	424064.60	32°09'53.915"N	103°51'27.776"W	0.00	
14019.00†	90.873	315.114	7734.66	6473.90	4587.00	-4568.47	647104.56	424135.44	32°09'54.620"N	103°51'28.593"W	0.00	
14119.00†	90.873	315.114	7733.14	6573.89	4657.84	-4639.03	647034.00	424206.28	32°09'55.324"N	103°51'29.411"W	0.00	
14193.79	90.873	315.114	7732.00†	6648.67	4710.82	-4691.80	646981.23	424259.26	32°09'55.850"N	103°51'30.022"W	0.00	No. 371H PBHL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) PLU No.371 PBHL (Rev-1)	14193.79	7732.00	4710.82	-4691.80	646981.23	424259.26	32°09'55.850"N	103°51'30.022"W	point
Poker Lake Unit No. 371H PBHL (Rev-0)		7732.00	4012.51	-3993.76	647679.23	423560.99	32°09'48.910"N	103°51'21.937"W	point

SURVEY PROGRAM - Ref Wellbore: No. 371H PWB Ref Wellpath: Rev-B.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.00	14193.79	NaviTrak (Standard)		No. 371H PWB

BOPCO, L. P.

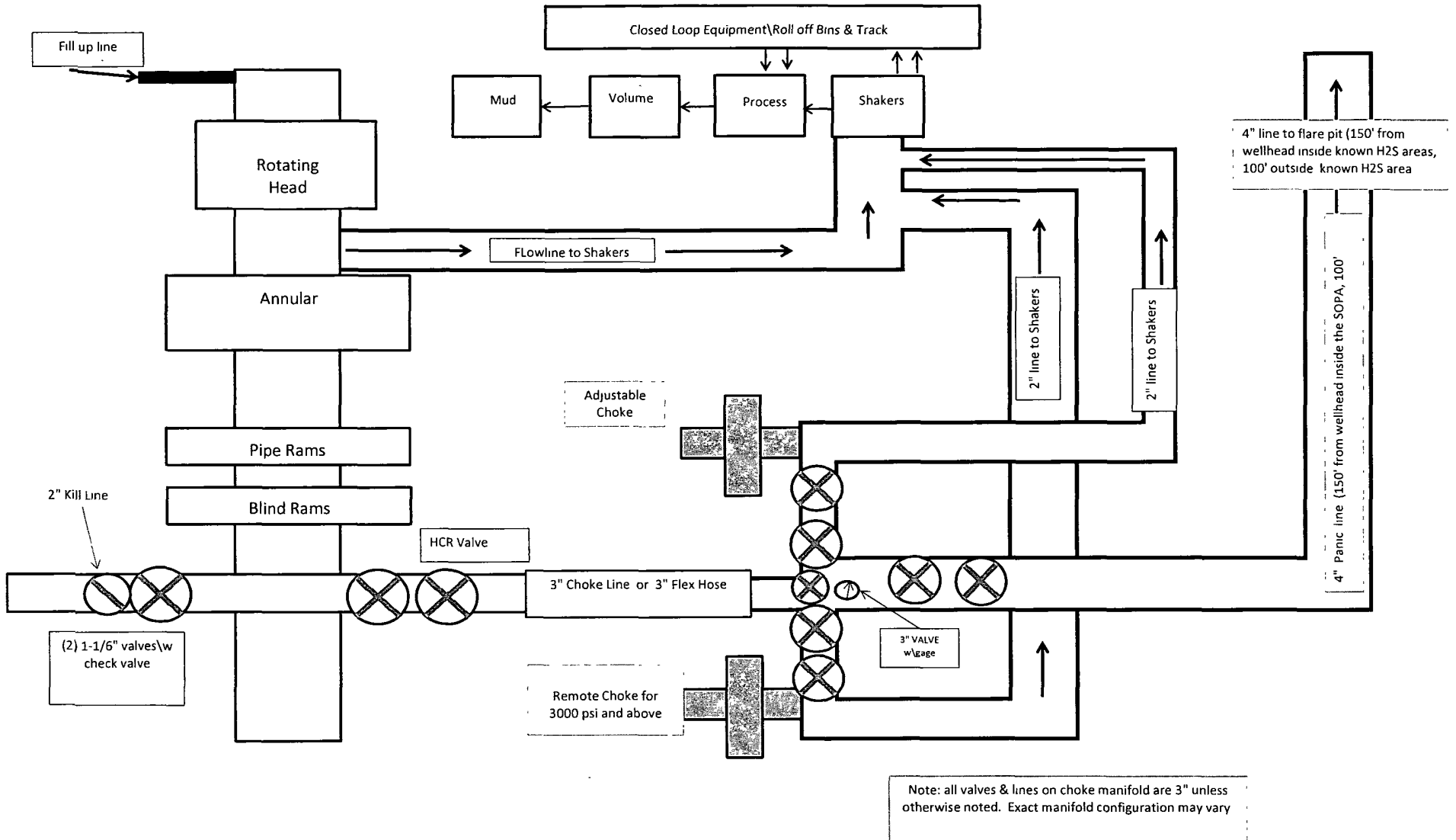
13 5/8" X 5-M WP BOPE WITH 5-M WP ANNULAR



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 minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with sufficient 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



**13-5/8" X 5-M BOPE (2 Rams and Rotating Head) &
Closed Loop System Equipment Schematic
Diagram 2**