

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

RECEIVED
MAY 08 2014
NMOCD ARTESIA

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 July 18, 2013

☐ AMENDED REPORT

2014 MAY -5 P 4: 32

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		2. OGRID Number 260737
3. Property Code 310001 313213		4. API Number 30-015-42365
5. Property Name Poker Lake Unit CVX JV BS		6. Well No. 029H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	2	25 S	30 E		170	SOUTH	660	WEST	EDDY

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
LOT 4	2	25 S	30 E		330	NORTH	660	WEST	EDDY

9. Pool Information

Pool Name Wildcat G-06 S2530N20; Bone Spring	Pool Code 97913
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Additional Well Information

11. Work Type New Well	12. Well Type Oil	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3,340'
16. Multiple N	17. Proposed Depth 15,431	18. Formation 2nd Bone Spring Shale	19. Contractor	20. Spud Date 06/09/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17-1/2"	13-38"	48	987	830	Surface
Int	11"	8-5/8"	32	4,012	863	Surface
Prod	7-7/8"	5-1/2"	17	15,431	1,182	10,256 (KOP)

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5,000	2,500	Hydrill
Double Ram	5,000	5,000	Shaffer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐ , if applicable. Signature: <i>Whitney B. McKee</i>		OIL CONSERVATION DIVISION	
Printed name: Whitney McKee		Approved By: <i>RR Dade</i>	
Title: Engineering Assistant		Title: <i>Dist # Supervisor</i>	
E-mail Address: wbmckee@basspet.com		Approved Date: <i>5-8-2014</i> Expiration Date: <i>5-8-2016</i>	
Date: 05/01/2014	Phone: (432)683-2277	Conditions of Approval Attached	

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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

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 30-015-42365	Pool Code 97913	Pool Name W. / DEAT G06 52530020 ; Bone Spring
Property Code 310001 313213	Property Name POKER LAKE UNIT CVX JV BS	Well Number 029H
GRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3345'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	25 S	30 E		170	SOUTH	660	WEST	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		330	NORTH	660	WEST	EDDY
Dedicated Acres 160.10		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

N.: 424808.5 E.: 646582.4 NAD 27 660' 330' LOT 4		N.: 424814.0 E.: 649240.7 NAD 27 PROPOSED BOTTOM HOLE LOCATION Lot - N 32°09'58.02" Long - W 103°51'26.98" NMSPCE- N 424479.8 E 647241.8 (NAD-27) LOT 3		N.: 424820.6 E.: 651906.8 NAD 27 LOT 2		N.: 424820.6 E.: 651906.8 NAD 27 LOT 1	
N.: 422142.7 E.: 646575.9 NAD 27 3350.8' 3360.0' LOT 4		N.: 422132.6 E.: 651900.4 NAD 27 LOT 3		N.: 422132.6 E.: 651900.4 NAD 27 LOT 2		N.: 422132.6 E.: 651900.4 NAD 27 LOT 1	
N.: 419478.0 E.: 646560.4 NAD 27 660' 3337.71'		N.: 419474.9 E.: 649226.7 NAD 27 SURFACE LOCATION Lot - N 32°09'10.20" Long - W 103°51'27.46" NMSPCE- N 419647.3 E 647221.3 (NAD-27) LOT 3		N.: 419473.5 E.: 651892.6 NAD 27 LOT 2		N.: 419473.5 E.: 651892.6 NAD 27 LOT 1	

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.

Whitney McKee
Signature Date

Whitney McKee
Printed Name
wbmckee@basspet.com
Email Address

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.

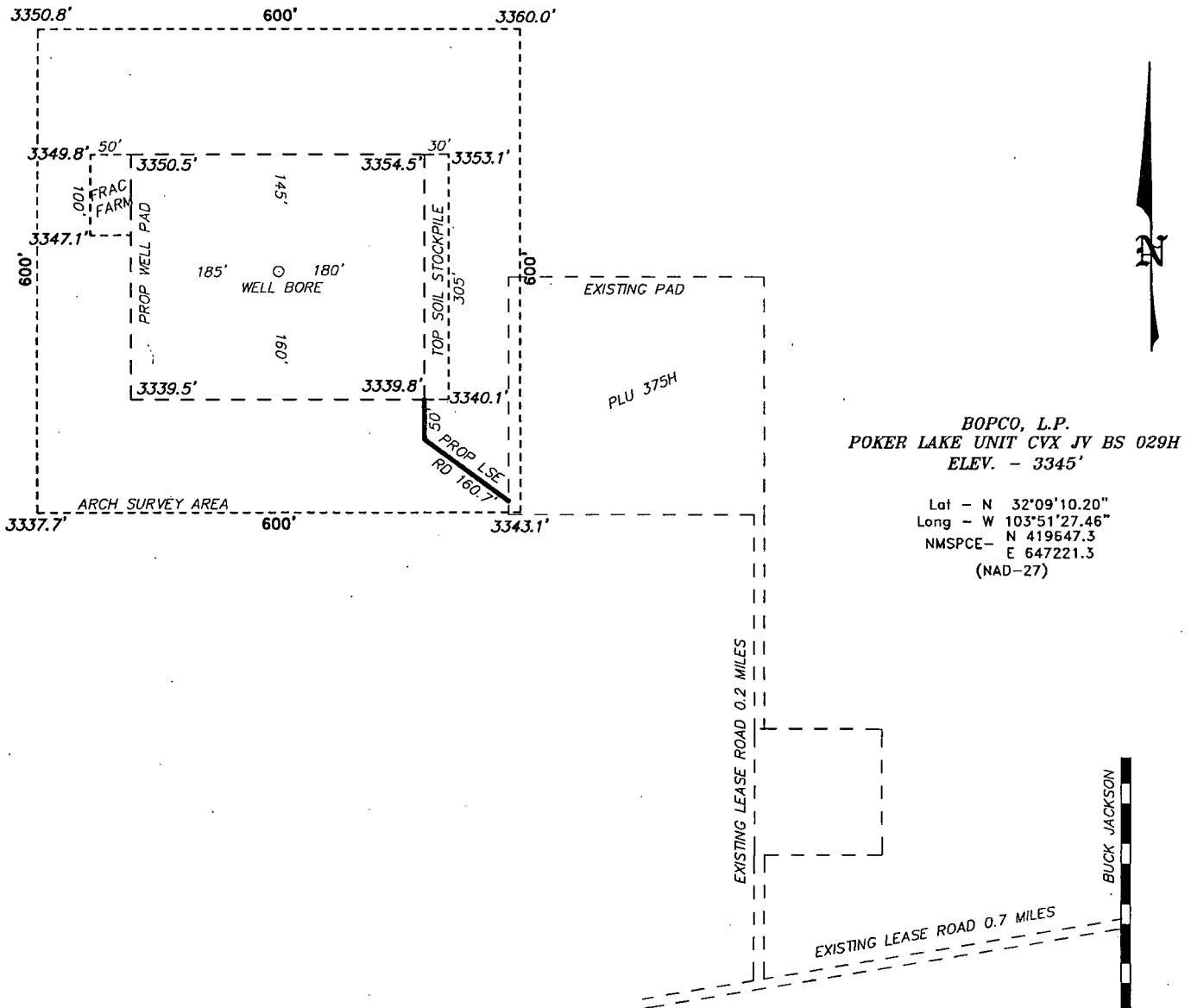
Date Surveyed **MAY 12 2014**

Signature & Seal of Professional Surveyor **7877**

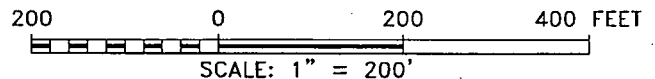
Certificate No. **7977**

Scale: 1" = 1000'
WO Num.: 30271

SECTION 2, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



MALAGA, NM IS ±13 MILES TO THE NORTHWEST OF LOCATION.



Directions to Location:

FROM THE THE JUNCTION OF TWIN WELLS AND BUCK JACKSON, GO SOUTH ON BUCK JACKSON FOR 1.0 MILES TO LEASE ROAD, GO WEST ON LEASE ROAD FOR 0.7 MILES TO LEASE ROAD, GO NORTH 0.2 MILES TO LOCATION PROPOSED LEASE ROAD.



P.O. Box 1786 (575) 393-7316 - Office
1120 N. West County Rd. (575) 392-2206 - Fax
Hobbs, New Mexico 88241 basinsurveys.com

BOPCO, L.P.

REF: POKER LAKE UNIT CVX JV BS 029H / WELL PAD TOPO

THE POKER LAKE UNIT CVX JV BS 029H LOCATED 170' FROM

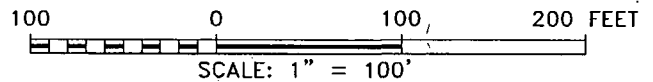
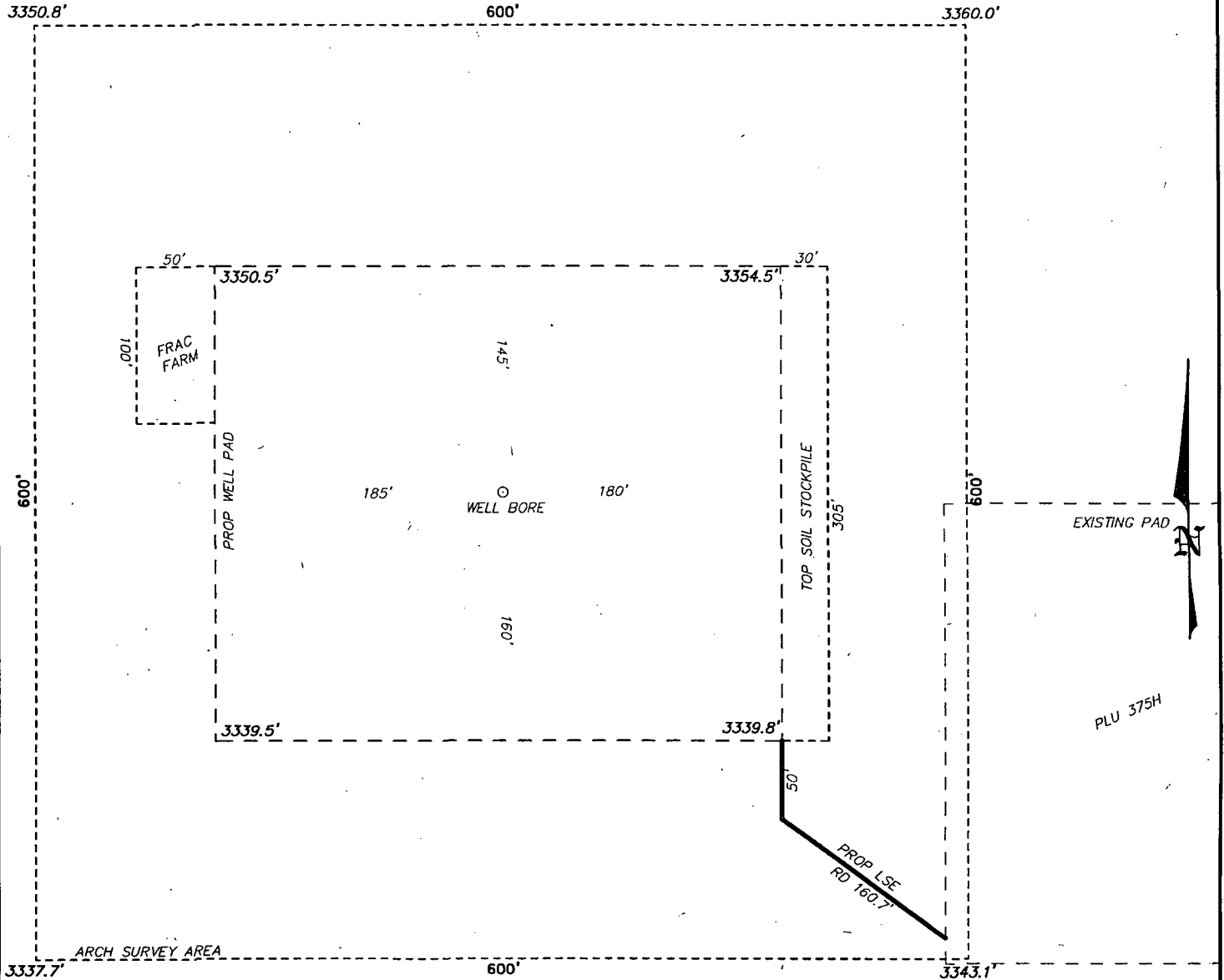
THE SOUTH LINE AND 660' FROM THE WEST LINE OF

SECTION 2, TOWNSHIP 25 SOUTH, RANGE 30 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

W.O. Number: 30271 Drawn By: J. SMALL Date: 03-31-2014 Survey Date: 03-28-2014 Sheet 1 of 1 Sheets

SECTION 2, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



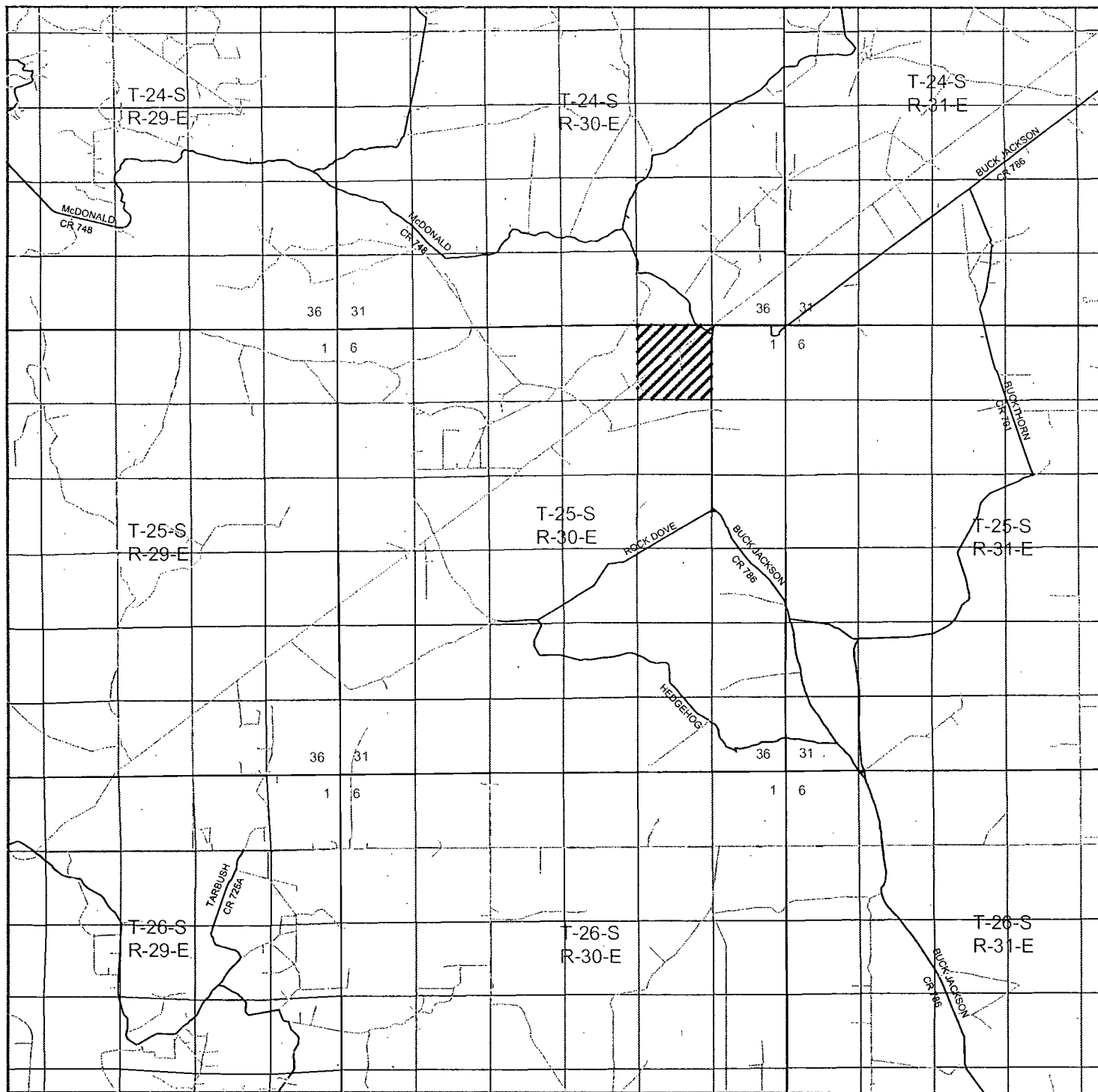
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BOPCO, L.P.

REF: POKER LAKE UNIT CVX JV BS 029H / WELL PAD TOPO

THE POKER LAKE UNIT CVX JV BS 029H LOCATED 170' FROM
THE SOUTH LINE AND 660' FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.



POKER LAKE UNIT CVX JV BS 029H

Located 170' FSL and 660' FWL

Section 2, Township 25 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.



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0 1 MI 2 MI 3 MI 4 MI

SCALE: 1" = 2 MILES

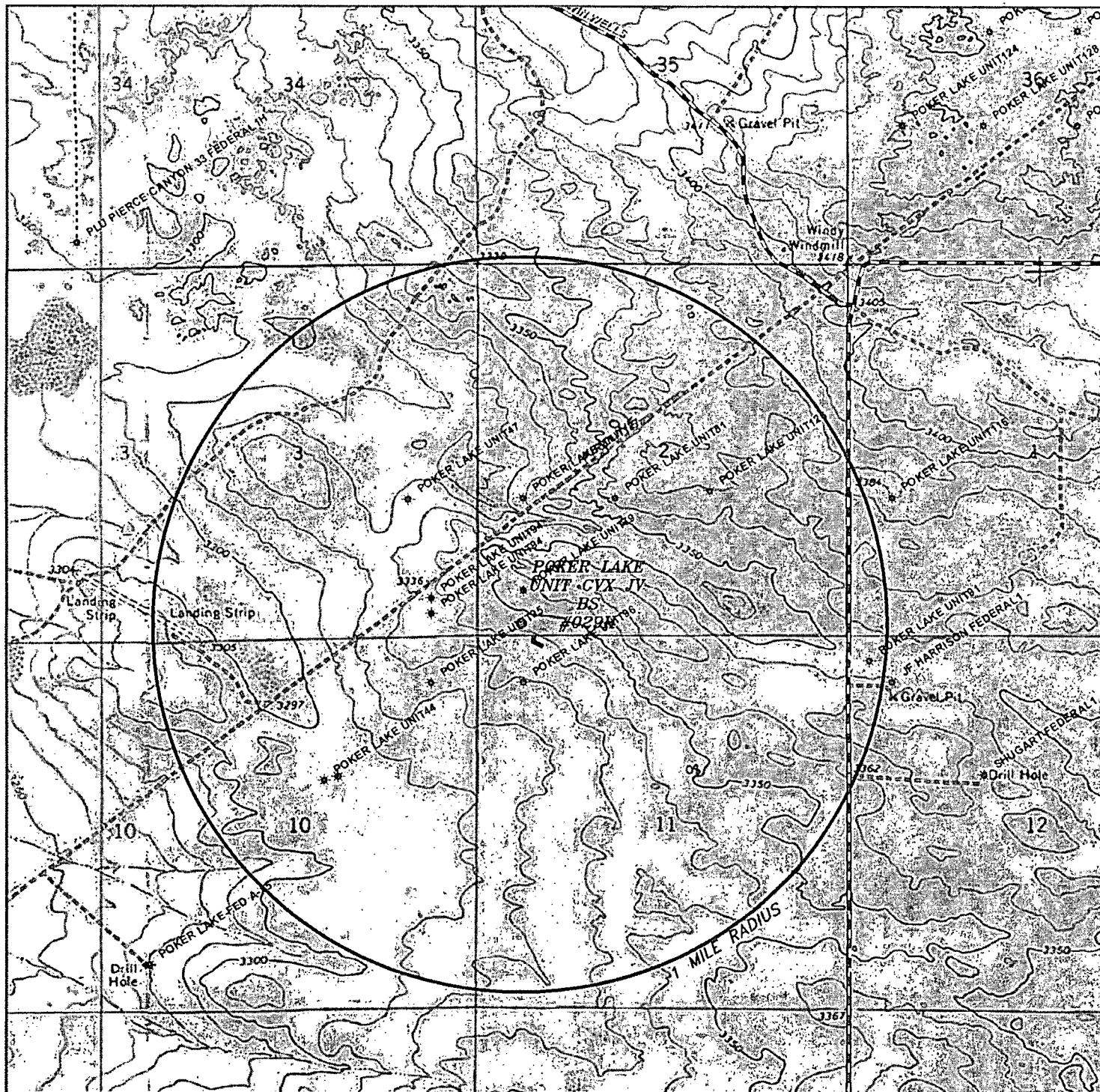
W.O. Number: JMS 30271

Survey Date: 03-28-2014

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



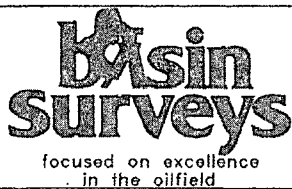
BOPCO, L.P.



POKER LAKE UNIT CVX JV BS 029H

Located 170' FSL and 660' FWL

Section 2, Township 25 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.



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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

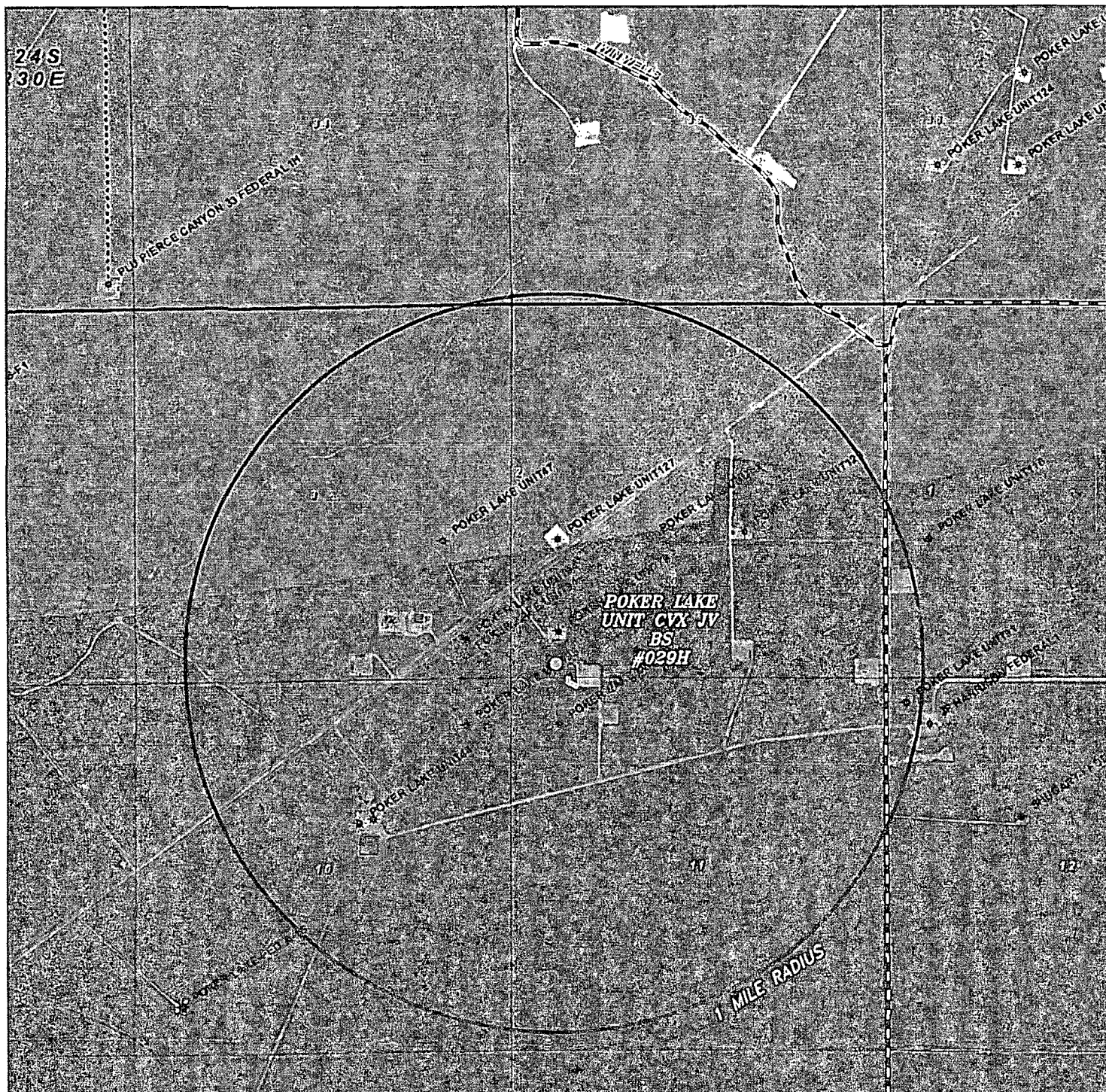
W.O. Number: JMS 30271

Survey Date: 03-28-2014

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



BOPCO, L.P.



POKER LAKE UNIT CVX JV BS 029H

Located 170' FSL and 660' FWL

Section 2, Township 25 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.

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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

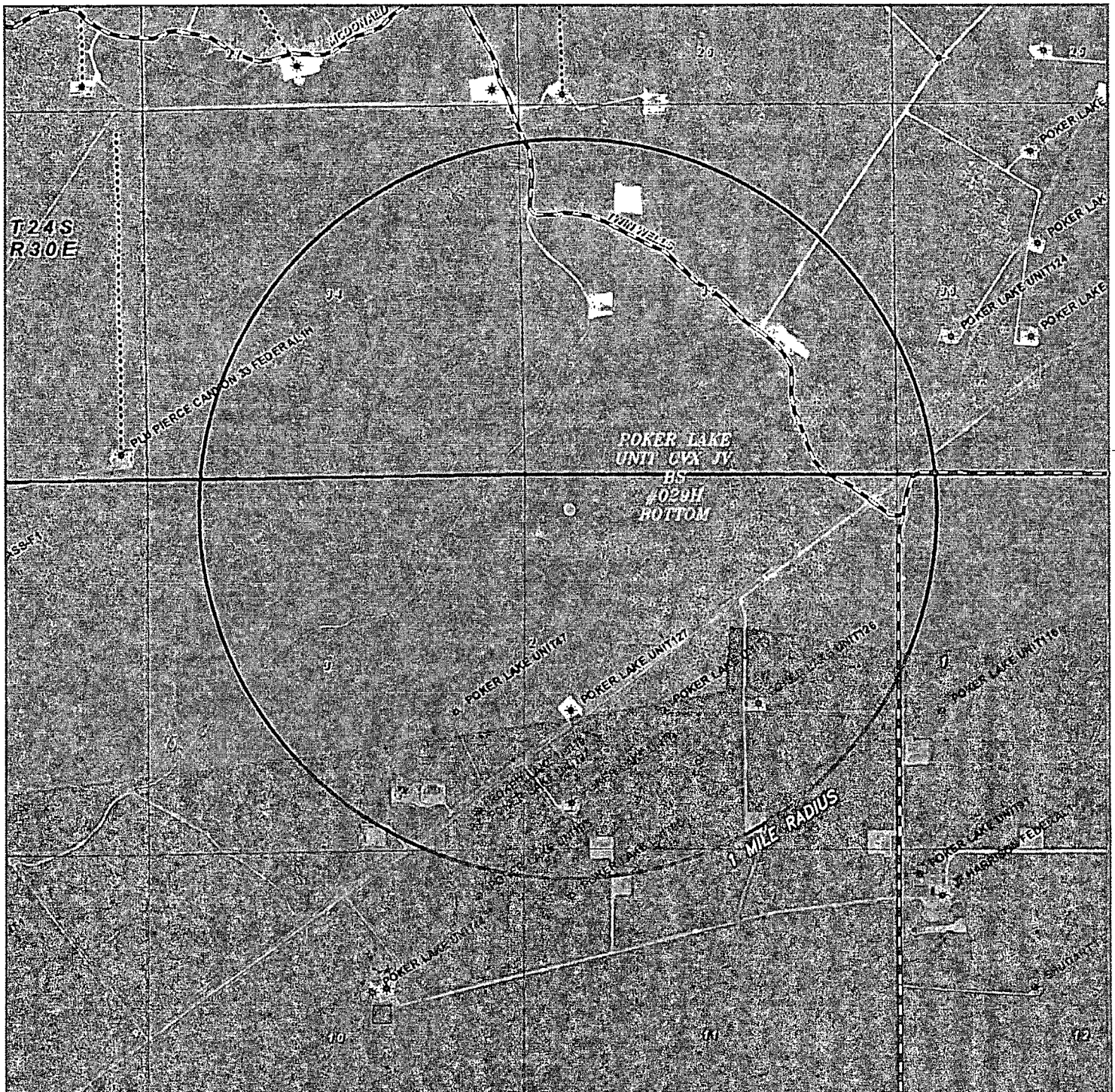
W.O. Number: JMS 30271

Survey Date: 03-28-2014

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



BOPCO, L.P.



POKER LAKE UNIT CVX JV BS 029H BOTTOM HOLE
 Located 330' FNL and 660' FWL
 Section 2, Township 25 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.

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0' 1000' 2000' 3000' 4000'
 SCALE: 1" = 2000'

W.O. Number: JMS 30271

Survey Date: 03-28-2014

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



BOPCO, L.P.

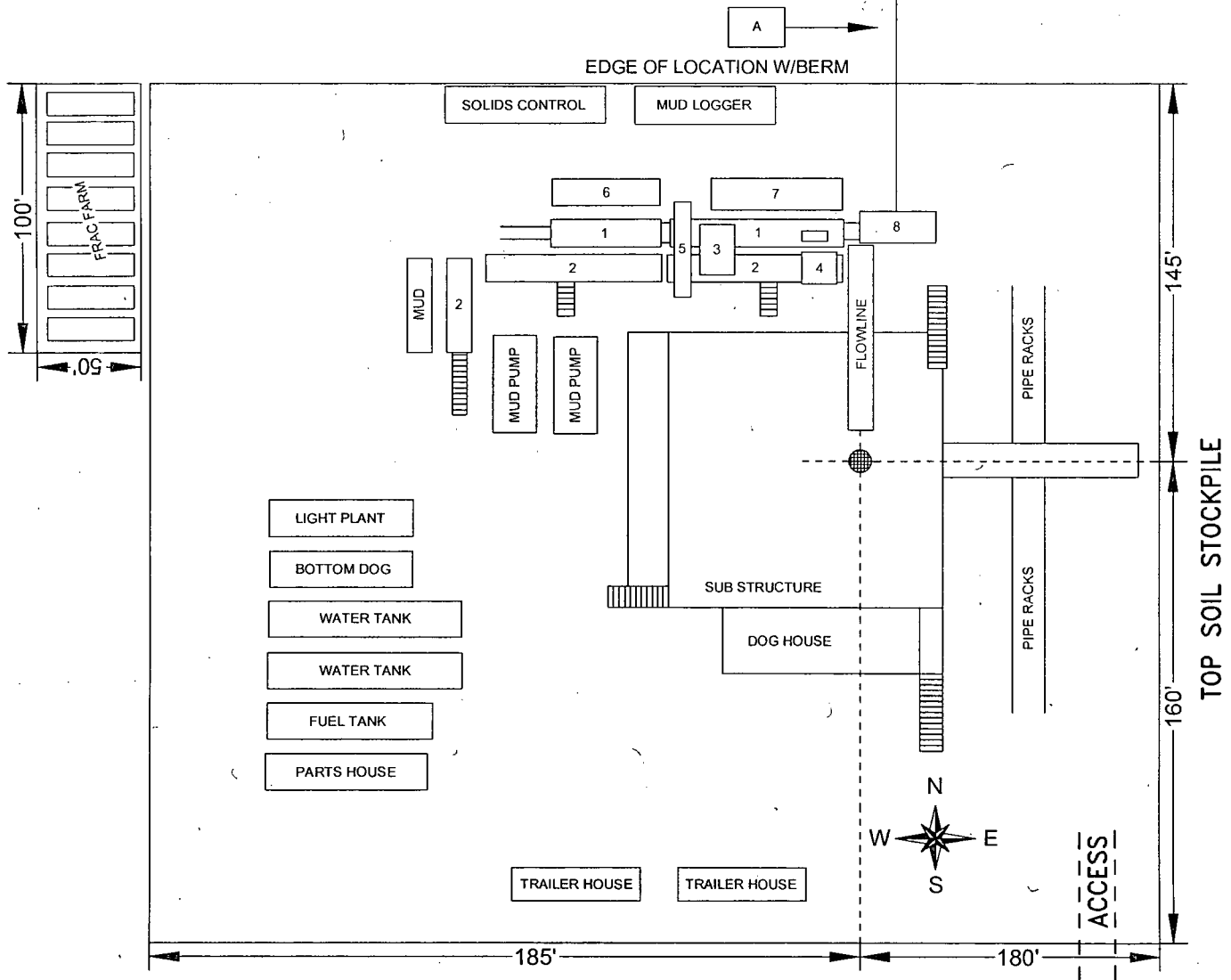
EXHIBIT "D"

RIG LAYOUT SCHEMATIC
INCLUSIVE OF CLOSED-LOOP DESIGN PLAN

SOLIDS CONTROL EQUIPMENT LEGEND

- | | |
|-----------------------------------|--------------------|
| 1) ROLL OFF BIN | 5) CENTRIFUGE |
| 2) STEEL TANK | 6) DEWATERING UNIT |
| 3) MUD CLEANER | 7) CATCH TANK |
| 4) SHAKER | 8) CHOKE MANIFOLD |
| A) BLEED LINE FROM CHOKE MANIFOLD | |

FLARE PIT 150' AWAY
FROM LOCATION IN H2S
AREA, 100' AWAY FROM
LOCATION OUTSIDE H2S



POKER LAKE UNIT CVX JV BS 029H

Located 170' FSL and 660' FWL

Section 2, Township 25 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.

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SCALE: NONE

W.O. Number: JMS 30271

Survey Date: 03-28-2014



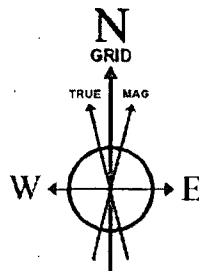
BOPCO, L.P.



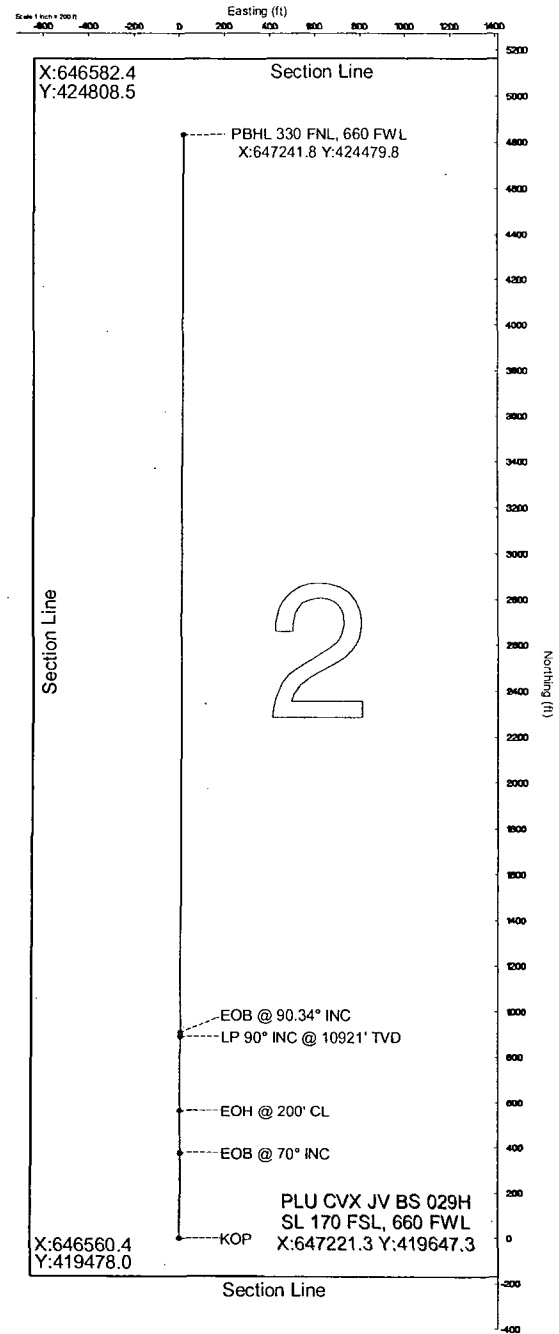
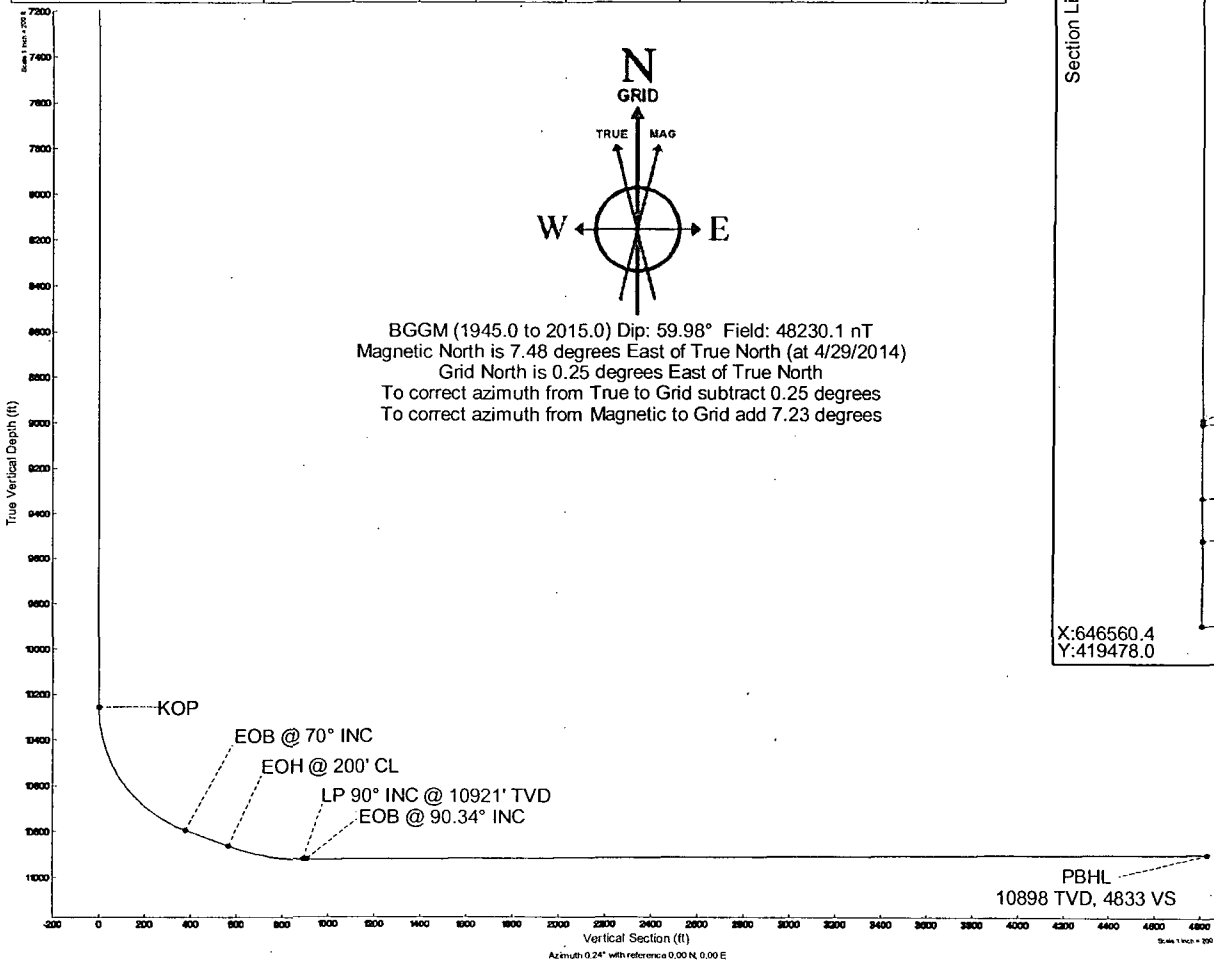
BOPCO, LP

PLU CVX JV BS 029H (Latshaw #4) (Prelim Plan)
PLU CVX JV BS 029H (Latshaw #4)
Eddy County, NM (NAD 27 / Grid)

Plot reference wellpath is Preliminary Plan				Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet				
True vertical depths are referenced to Latshaw #4 (RKB)				North Reference: Grid north				
Measured depths are referenced to Latshaw #4 (RKB)				Scale: True distance				
Latshaw #4 (RKB) to Mean Sea Level: 3367 feet				Depths are in feet				
Mean Sea Level to Mud line (At Slot: PLU CVX JV BS 029H (Latshaw #4)): -3345 feet				Created by: burnnang on 4/29/2014				
Coordinates are in feet referenced to Slot								
Location Information								
Facility Name				Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
PLU CVX JV BS 029H Sec 2-25S-30E				647221.300	419647.300	32°09'10.199"N	103°51'27.466"W	
Slot		Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
PLU CVX JV BS 029H (Latshaw #4)		0.00	0.00	647221.300	419647.300	32°09'10.199"N	103°51'27.466"W	
Latshaw #4 (RKB) to Mud line (At Slot: PLU CVX JV BS 029H (Latshaw #4))						22ft		
Mean Sea Level to Mud line (At Slot: PLU CVX JV BS 029H (Latshaw #4))						-3345ft		
Latshaw #4 (RKB) to Mean Sea Level						3367ft		
Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
SL 170 FSL, 660 FWL	22.00	0.000	0.243	22.00	0.00	0.00	0.00	0.00
KOP	10256.60	0.000	0.243	10256.60	0.00	0.00	0.00	0.00
EOB @ 70° INC	10956.60	70.000	0.243	10795.00	376.99	1.60	10.00	376.99
EOH @ 200' CL	11156.60	70.000	0.243	10863.41	564.93	2.40	0.00	564.93
LP 90° INC @ 10921' TVD	11489.93	90.000	0.243	10921.00	891.53	3.78	6.00	891.54
EOB @ 90.34° INC	11506.93	90.340	0.243	10920.95	908.53	3.85	2.00	908.54
PBHL 330 FNL, 660 FWL	15431.34	90.340	0.243	10897.66	4832.83	20.50	0.00	4832.87



BGGM (1945.0 to 2015.0) Dip: 59.98° Field: 48230.1 nT
Magnetic North is 7.48 degrees East of True North (at 4/29/2014)
Grid North is 0.25 degrees East of True North
To correct azimuth from True to Grid subtract 0.25 degrees
To correct azimuth from Magnetic to Grid add 7.23 degrees





Planned Wellpath Report

Preliminary Plan

Page n of nn



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	PLU CVX JV BS 029H (Latshaw #4)
Area	Eddy County, NM	Well	PLU CVX JV BS 029H (SL 170 FSL, 660 FWL)
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	PLU CVX JV BS 029H (Latshaw #4) Planned
Facility	PLU CVX JV BS 029H Sec. 2-25S-30E		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.0.0
North Reference	Grid	User	Burnranj
Scale	0.999934	Report Generated	4/29/2014 at 10:23:06 AM
Convergence at slot	0.25° East	Database/Source file	WA_MIDLAND/PLU_CVX_JV_BS_029H_Latshaw_#4_Planned.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	647221.30	419647.30	32°09'10.199"N	103°51'27.466"W
Facility Reference Pt			647221.30	419647.30	32°09'10.199"N	103°51'27.466"W
Field Reference Pt			510280.10	534700.83	32°28'12.000"N	104°18'00.000"W

WELLPATH DATUM

Calculation method	Minimum curvature	Latshaw #4 (RKB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Latshaw #4 (RKB) to Mean Sea Level	3367.00ft
Vertical Reference Pt	Latshaw #4 (RKB)	Latshaw #4 (RKB) to Mud Line at Slot (PLU CVX JV BS 029H (Latshaw #4))	22.00ft
MD Reference Pt	Latshaw #4 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	0.24°



Planned Wellpath Report

Preliminary Plan

Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	PLU CVX JV BS 029H (Latshaw #4)
Area	Eddy County, NM	Well	PLU CVX JV BS 029H (SL 170 FSL, 660 FWL)
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	PLU CVX JV BS 029H (Latshaw #4) Planned
Facility	PLU CVX JV BS 029H Sec. 2-25S-30E		

WELLPATH DATA (162 stations) † = interpolated/extrapolated station							
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
0.00†	0.000	0.243	0.00	0.00	0.00	0.00	0.00
22.00	-0.000	0.243	22.00	0.00	0.00	0.00	0.00
122.00†	0.000	0.243	122.00	0.00	0.00	0.00	0.00
222.00†	0.000	0.243	222.00	0.00	0.00	0.00	0.00
322.00†	0.000	0.243	322.00	0.00	0.00	0.00	0.00
422.00†	0.000	0.243	422.00	0.00	0.00	0.00	0.00
522.00†	0.000	0.243	522.00	0.00	0.00	0.00	0.00
622.00†	0.000	0.243	622.00	0.00	0.00	0.00	0.00
722.00†	0.000	0.243	722.00	0.00	0.00	0.00	0.00
822.00†	0.000	0.243	822.00	0.00	0.00	0.00	0.00
922.00†	0.000	0.243	922.00	0.00	0.00	0.00	0.00
1022.00†	0.000	0.243	1022.00	0.00	0.00	0.00	0.00
1122.00†	0.000	0.243	1122.00	0.00	0.00	0.00	0.00
1222.00†	0.000	0.243	1222.00	0.00	0.00	0.00	0.00
1322.00†	0.000	0.243	1322.00	0.00	0.00	0.00	0.00
1422.00†	0.000	0.243	1422.00	0.00	0.00	0.00	0.00
1522.00†	0.000	0.243	1522.00	0.00	0.00	0.00	0.00
1622.00†	0.000	0.243	1622.00	0.00	0.00	0.00	0.00
1722.00†	0.000	0.243	1722.00	0.00	0.00	0.00	0.00
1822.00†	0.000	0.243	1822.00	0.00	0.00	0.00	0.00
1922.00†	0.000	0.243	1922.00	0.00	0.00	0.00	0.00
2022.00†	0.000	0.243	2022.00	0.00	0.00	0.00	0.00
2122.00†	0.000	0.243	2122.00	0.00	0.00	0.00	0.00
2222.00†	0.000	0.243	2222.00	0.00	0.00	0.00	0.00
2322.00†	0.000	0.243	2322.00	0.00	0.00	0.00	0.00
2422.00†	0.000	0.243	2422.00	0.00	0.00	0.00	0.00
2522.00†	0.000	0.243	2522.00	0.00	0.00	0.00	0.00
2622.00†	0.000	0.243	2622.00	0.00	0.00	0.00	0.00
2722.00†	0.000	0.243	2722.00	0.00	0.00	0.00	0.00
2822.00†	0.000	0.243	2822.00	0.00	0.00	0.00	0.00
2922.00†	0.000	0.243	2922.00	0.00	0.00	0.00	0.00
3022.00†	0.000	0.243	3022.00	0.00	0.00	0.00	0.00
3122.00†	0.000	0.243	3122.00	0.00	0.00	0.00	0.00
3222.00†	0.000	0.243	3222.00	0.00	0.00	0.00	0.00
3322.00†	0.000	0.243	3322.00	0.00	0.00	0.00	0.00
3422.00†	0.000	0.243	3422.00	0.00	0.00	0.00	0.00
3522.00†	0.000	0.243	3522.00	0.00	0.00	0.00	0.00
3622.00†	0.000	0.243	3622.00	0.00	0.00	0.00	0.00
3722.00†	0.000	0.243	3722.00	0.00	0.00	0.00	0.00
3822.00†	0.000	0.243	3822.00	0.00	0.00	0.00	0.00
3922.00†	0.000	0.243	3922.00	0.00	0.00	0.00	0.00
4022.00†	0.000	0.243	4022.00	0.00	0.00	0.00	0.00
4122.00†	0.000	0.243	4122.00	0.00	0.00	0.00	0.00
4222.00†	0.000	0.243	4222.00	0.00	0.00	0.00	0.00
4322.00†	0.000	0.243	4322.00	0.00	0.00	0.00	0.00



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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	PLU CVX JV BS 029H (Latshaw #4)
Area	Eddy County, NM	Well	PLU CVX JV BS 029H (SL 170 FSL, 660 FWL)
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	PLU CVX JV BS 029H (Latshaw #4) Planned
Facility	PLU CVX JV BS 029H Sec. 2-25S-30E		

WELLPATH DATA (162 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
4422.00†	0.000	0.243	4422.00	0.00	0.00	0.00	0.00
4522.00†	0.000	0.243	4522.00	0.00	0.00	0.00	0.00
4622.00†	0.000	0.243	4622.00	0.00	0.00	0.00	0.00
4722.00†	0.000	0.243	4722.00	0.00	0.00	0.00	0.00
4822.00†	0.000	0.243	4822.00	0.00	0.00	0.00	0.00
4922.00†	0.000	0.243	4922.00	0.00	0.00	0.00	0.00
5022.00†	0.000	0.243	5022.00	0.00	0.00	0.00	0.00
5122.00†	0.000	0.243	5122.00	0.00	0.00	0.00	0.00
5222.00†	0.000	0.243	5222.00	0.00	0.00	0.00	0.00
5322.00†	0.000	0.243	5322.00	0.00	0.00	0.00	0.00
5422.00†	0.000	0.243	5422.00	0.00	0.00	0.00	0.00
5522.00†	0.000	0.243	5522.00	0.00	0.00	0.00	0.00
5622.00†	0.000	0.243	5622.00	0.00	0.00	0.00	0.00
5722.00†	0.000	0.243	5722.00	0.00	0.00	0.00	0.00
5822.00†	0.000	0.243	5822.00	0.00	0.00	0.00	0.00
5922.00†	0.000	0.243	5922.00	0.00	0.00	0.00	0.00
6022.00†	0.000	0.243	6022.00	0.00	0.00	0.00	0.00
6122.00†	0.000	0.243	6122.00	0.00	0.00	0.00	0.00
6222.00†	0.000	0.243	6222.00	0.00	0.00	0.00	0.00
6322.00†	0.000	0.243	6322.00	0.00	0.00	0.00	0.00
6422.00†	0.000	0.243	6422.00	0.00	0.00	0.00	0.00
6522.00†	0.000	0.243	6522.00	0.00	0.00	0.00	0.00
6622.00†	0.000	0.243	6622.00	0.00	0.00	0.00	0.00
6722.00†	0.000	0.243	6722.00	0.00	0.00	0.00	0.00
6822.00†	0.000	0.243	6822.00	0.00	0.00	0.00	0.00
6922.00†	0.000	0.243	6922.00	0.00	0.00	0.00	0.00
7022.00†	0.000	0.243	7022.00	0.00	0.00	0.00	0.00
7122.00†	0.000	0.243	7122.00	0.00	0.00	0.00	0.00
7222.00†	0.000	0.243	7222.00	0.00	0.00	0.00	0.00
7322.00†	0.000	0.243	7322.00	0.00	0.00	0.00	0.00
7422.00†	0.000	0.243	7422.00	0.00	0.00	0.00	0.00
7522.00†	0.000	0.243	7522.00	0.00	0.00	0.00	0.00
7622.00†	0.000	0.243	7622.00	0.00	0.00	0.00	0.00
7722.00†	0.000	0.243	7722.00	0.00	0.00	0.00	0.00
7822.00†	0.000	0.243	7822.00	0.00	0.00	0.00	0.00
7922.00†	0.000	0.243	7922.00	0.00	0.00	0.00	0.00
8022.00†	0.000	0.243	8022.00	0.00	0.00	0.00	0.00
8122.00†	0.000	0.243	8122.00	0.00	0.00	0.00	0.00
8222.00†	0.000	0.243	8222.00	0.00	0.00	0.00	0.00
8322.00†	0.000	0.243	8322.00	0.00	0.00	0.00	0.00
8422.00†	0.000	0.243	8422.00	0.00	0.00	0.00	0.00
8522.00†	0.000	0.243	8522.00	0.00	0.00	0.00	0.00
8622.00†	0.000	0.243	8622.00	0.00	0.00	0.00	0.00
8722.00†	0.000	0.243	8722.00	0.00	0.00	0.00	0.00
8822.00†	0.000	0.243	8822.00	0.00	0.00	0.00	0.00



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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	PLU CVX JV BS 029H (Latshaw #4)
Area	Eddy County, NM	Well	PLU CVX JV BS 029H (SL 170 FSL, 660 FWL)
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	PLU CVX JV BS 029H (Latshaw #4) Planned
Facility	PLU CVX JV BS 029H Sec. 2-25S-30E		

WELLPATH DATA (162 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
8922.00†	0.000	0.243	8922.00	0.00	0.00	0.00	0.00
9022.00†	0.000	0.243	9022.00	0.00	0.00	0.00	0.00
9122.00†	0.000	0.243	9122.00	0.00	0.00	0.00	0.00
9222.00†	0.000	0.243	9222.00	0.00	0.00	0.00	0.00
9322.00†	0.000	0.243	9322.00	0.00	0.00	0.00	0.00
9422.00†	0.000	0.243	9422.00	0.00	0.00	0.00	0.00
9522.00†	0.000	0.243	9522.00	0.00	0.00	0.00	0.00
9622.00†	0.000	0.243	9622.00	0.00	0.00	0.00	0.00
9722.00†	0.000	0.243	9722.00	0.00	0.00	0.00	0.00
9822.00†	0.000	0.243	9822.00	0.00	0.00	0.00	0.00
9922.00†	0.000	0.243	9922.00	0.00	0.00	0.00	0.00
10022.00†	0.000	0.243	10022.00	0.00	0.00	0.00	0.00
10122.00†	0.000	0.243	10122.00	0.00	0.00	0.00	0.00
10222.00†	0.000	0.243	10222.00	0.00	0.00	0.00	0.00
10256.60	0.000	0.243	10256.60	0.00	0.00	0.00	0.00
10322.00†	6.540	0.243	10321.86	3.73	3.73	0.02	10.00
10422.00†	16.540	0.243	10419.71	23.71	23.71	0.10	10.00
10522.00†	26.540	0.243	10512.61	60.38	60.38	0.26	10.00
10622.00†	36.540	0.243	10597.73	112.62	112.62	0.48	10.00
10722.00†	46.540	0.243	10672.48	178.85	178.85	0.76	10.00
10822.00†	56.540	0.243	10734.60	257.05	257.05	1.09	10.00
10922.00†	66.540	0.243	10782.20	344.86	344.86	1.46	10.00
10956.60	70.000	0.243	10795.00	376.99	376.99	1.60	10.00
11022.00†	70.000	0.243	10817.37	438.45	438.45	1.86	0.00
11122.00†	70.000	0.243	10851.57	532.42	532.42	2.26	0.00
11156.60	70.000	0.243	10863.41	564.93	564.93	2.40	0.00
11222.00†	73.924	0.243	10883.66	627.11	627.10	2.66	6.00
11322.00†	79.924	0.243	10906.27	724.47	724.46	3.07	6.00
11422.00†	85.924	0.243	10918.58	823.66	823.65	3.49	6.00
11489.93	90.000	0.243	10921.00	891.54	891.53	3.78	6.00
11506.93	90.340	0.243	10920.95	908.54	908.53	3.85	2.00
11522.00†	90.340	0.243	10920.86	923.60	923.60	3.92	0.00
11622.00†	90.340	0.243	10920.26	1023.60	1023.59	4.34	0.00
11722.00†	90.340	0.243	10919.67	1123.60	1123.59	4.77	0.00
11822.00†	90.340	0.243	10919.08	1223.60	1223.59	5.19	0.00
11922.00†	90.340	0.243	10918.48	1323.60	1323.59	5.61	0.00
12022.00†	90.340	0.243	10917.89	1423.60	1423.58	6.04	0.00
12122.00†	90.340	0.243	10917.30	1523.59	1523.58	6.46	0.00
12222.00†	90.340	0.243	10916.70	1623.59	1623.58	6.89	0.00
12322.00†	90.340	0.243	10916.11	1723.59	1723.58	7.31	0.00
12422.00†	90.340	0.243	10915.52	1823.59	1823.57	7.73	0.00
12522.00†	90.340	0.243	10914.92	1923.59	1923.57	8.16	0.00
12622.00†	90.340	0.243	10914.33	2023.59	2023.57	8.58	0.00
12722.00†	90.340	0.243	10913.74	2123.58	2123.56	9.01	0.00
12822.00†	90.340	0.243	10913.14	2223.58	2223.56	9.43	0.00



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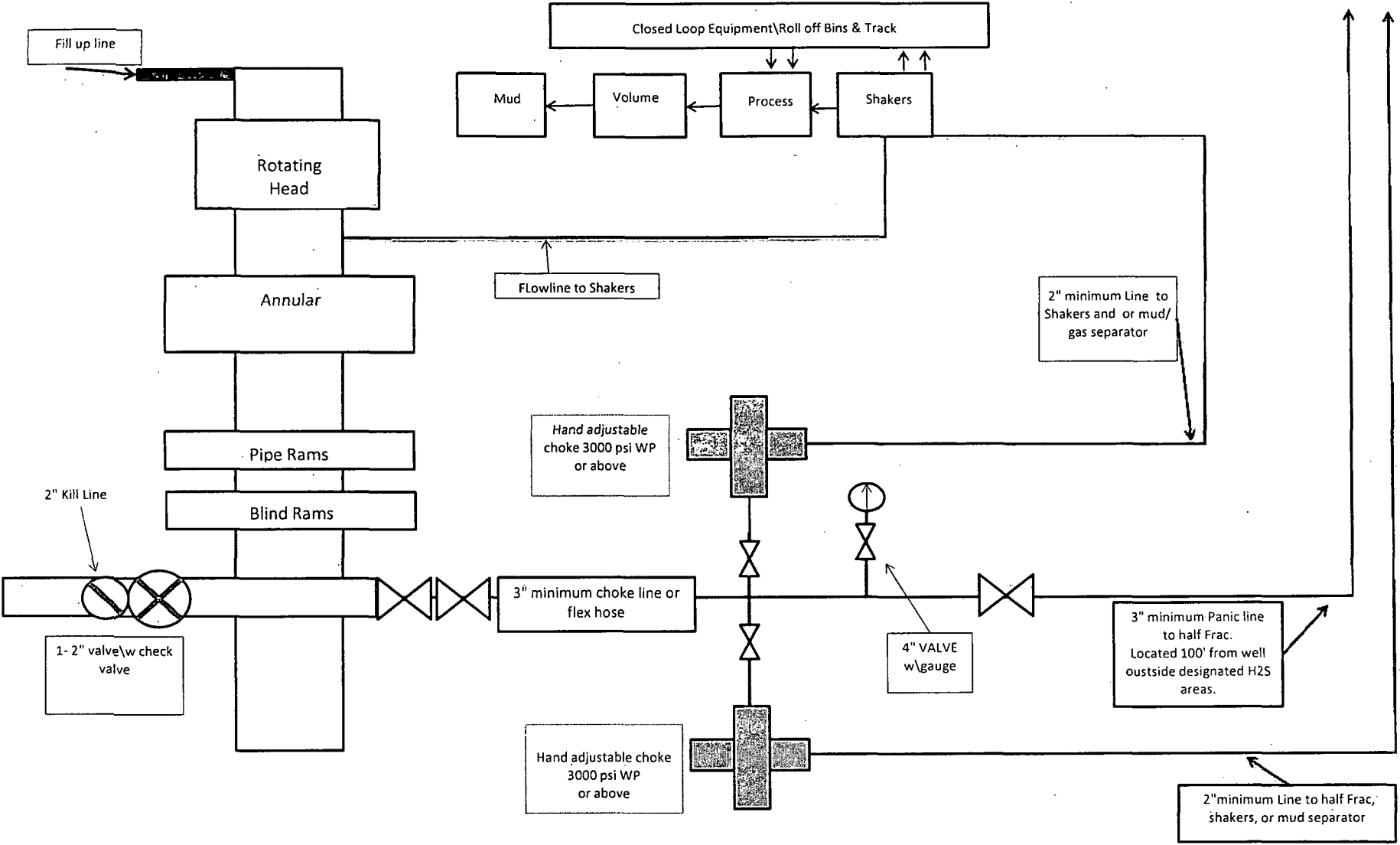


REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	PLU CVX JV BS 029H (Latshaw #4)
Area	Eddy County, NM	Well	PLU CVX JV BS 029H (SL 170 FSL, 660 FWL)
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	PLU CVX JV BS 029H (Latshaw #4) Planned
Facility	PLU CVX JV BS 029H Sec. 2-25S-30E		

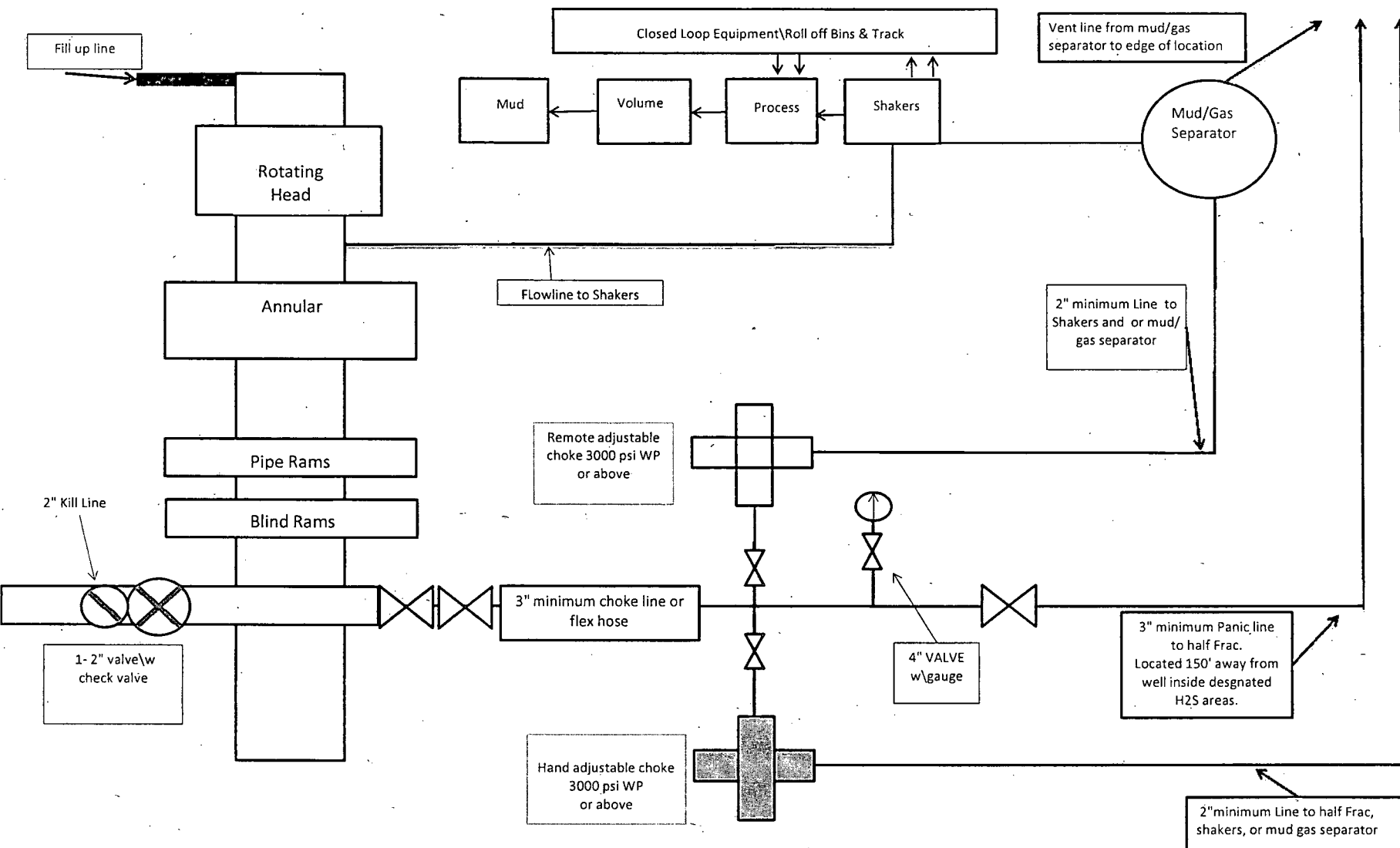
WELLPATH DATA (162 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
12922.00†	90.340	0.243	10912.55	2323.58	2323.56	9.85	0.00
13022.00†	90.340	0.243	10911.96	2423.58	2423.56	10.28	0.00
13122.00†	90.340	0.243	10911.36	2523.58	2523.55	10.70	0.00
13222.00†	90.340	0.243	10910.77	2623.57	2623.55	11.13	0.00
13322.00†	90.340	0.243	10910.18	2723.57	2723.55	11.55	0.00
13422.00†	90.340	0.243	10909.58	2823.57	2823.55	11.98	0.00
13522.00†	90.340	0.243	10908.99	2923.57	2923.54	12.40	0.00
13622.00†	90.340	0.243	10908.40	3023.57	3023.54	12.82	0.00
13722.00†	90.340	0.243	10907.80	3123.57	3123.54	13.25	0.00
13822.00†	90.340	0.243	10907.21	3223.56	3223.54	13.67	0.00
13922.00†	90.340	0.243	10906.62	3323.56	3323.53	14.10	0.00
14022.00†	90.340	0.243	10906.02	3423.56	3423.53	14.52	0.00
14122.00†	90.340	0.243	10905.43	3523.56	3523.53	14.94	0.00
14222.00†	90.340	0.243	10904.84	3623.56	3623.52	15.37	0.00
14322.00†	90.340	0.243	10904.24	3723.56	3723.52	15.79	0.00
14422.00†	90.340	0.243	10903.65	3823.55	3823.52	16.22	0.00
14522.00†	90.340	0.243	10903.06	3923.55	3923.52	16.64	0.00
14622.00†	90.340	0.243	10902.46	4023.55	4023.51	17.06	0.00
14722.00†	90.340	0.243	10901.87	4123.55	4123.51	17.49	0.00
14822.00†	90.340	0.243	10901.28	4223.55	4223.51	17.91	0.00
14922.00†	90.340	0.243	10900.68	4323.54	4323.51	18.34	0.00
15022.00†	90.340	0.243	10900.09	4423.54	4423.50	18.76	0.00
15122.00†	90.340	0.243	10899.49	4523.54	4523.50	19.18	0.00
15222.00†	90.340	0.243	10898.90	4623.54	4623.50	19.61	0.00
15322.00†	90.340	0.243	10898.31	4723.54	4723.50	20.03	0.00
15422.00†	90.340	0.243	10897.71	4823.54	4823.49	20.46	0.00
15431.34	90.340	0.243	10897.66	4832.87	4832.83	20.50	0.00



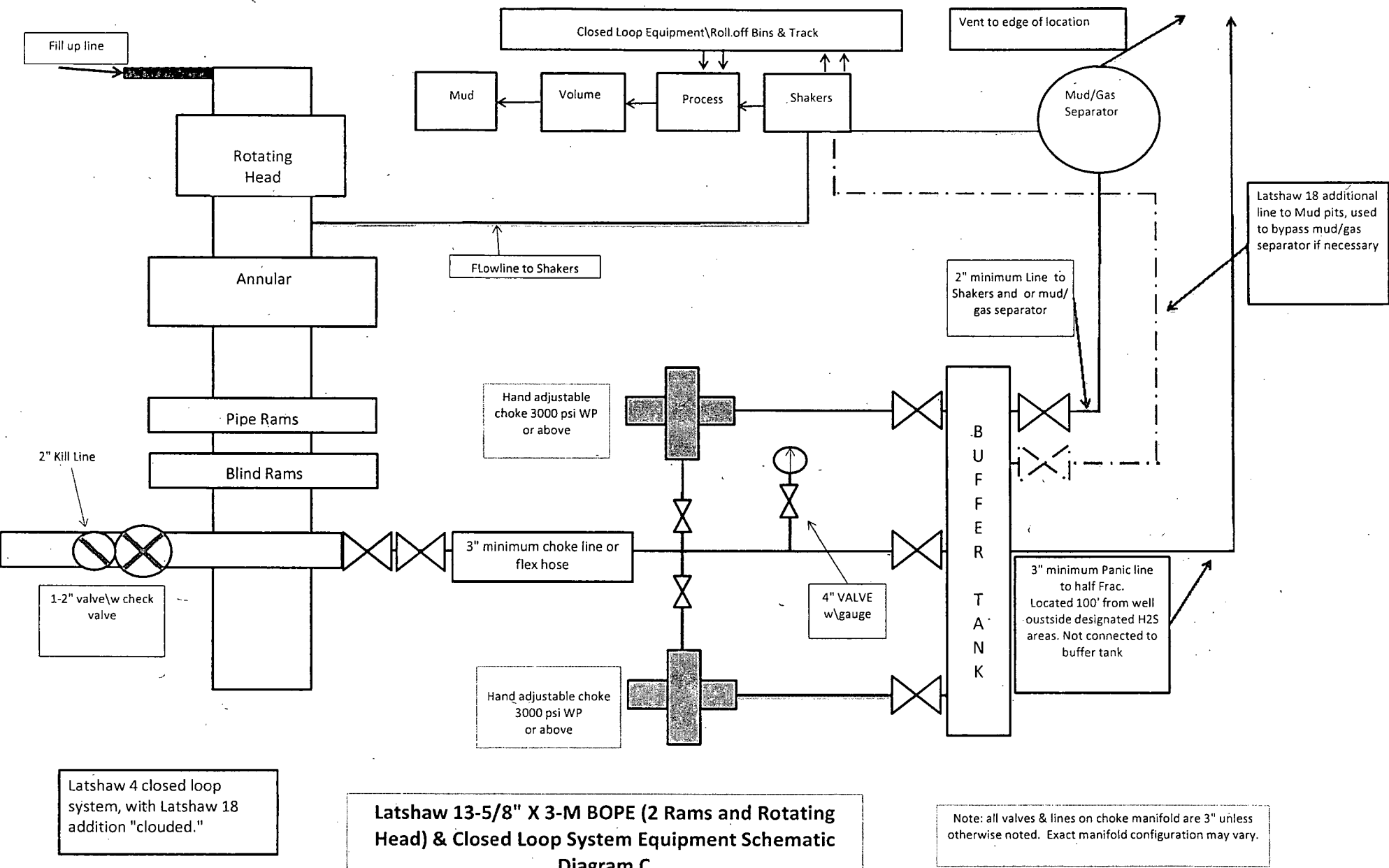
13-5/8" X 3-M BOPE (2 Rams and Rotating Head) & Closed Loop System Equipment Schematic
Diagram A

Note: all valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.



**13-5/8" X 3-M BOPE (2 Rams and Rotating Head) &
Closed Loop System Equipment Schematic
H2S contingency
Diagram B**

Note: all valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.



Permit Conditions of Approval

API: 30-015-42365

OCD Reviewer	Condition
CSHAPARD 	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.