

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-6161 Fax: (505) 393-0729

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 745-1253 Fax: (505) 745-0729

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1224 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3460 Fax: (505) 478-3463

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
1224 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-015-43816	Pool Code 97814	Pool Name WILDCAT G-05 S2630010; Bone Spring
Property Code 313363	Property Name POKER LAKE UNIT CVX JV PB	Well Number 020H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3316'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	36	25 S	30 E		660	NORTH	250	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
A	36	25 S	30 E		660	NORTH	330	EAST	EDDY

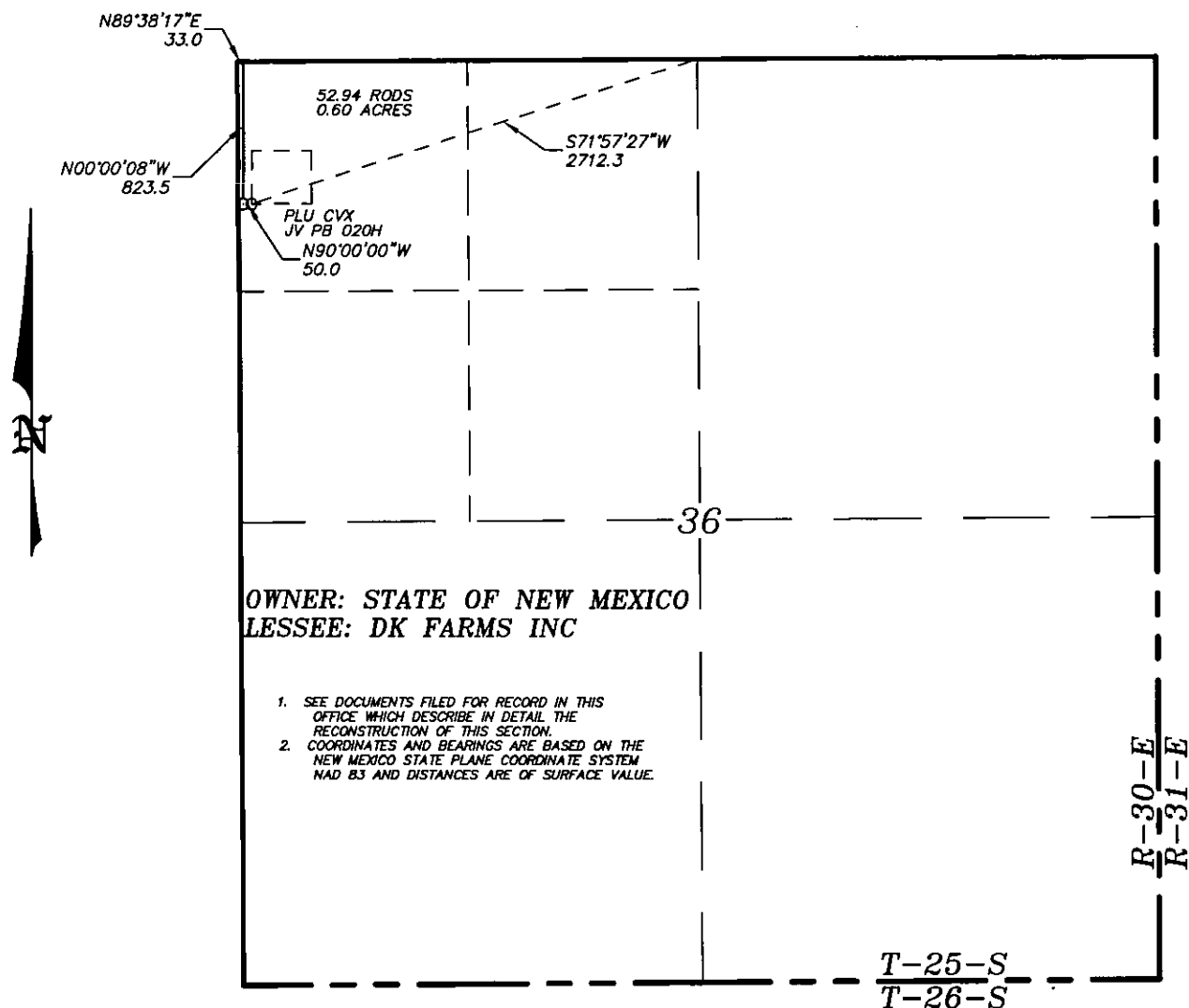
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**

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. <i>Elizabeth Osborne</i> 6/14/16 Signature Date Elizabeth Osborne Printed Name eosborne@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. <i>[Signature]</i> Date Surveyed <i>[Signature]</i> Signature & Seal of Professional Surveyor Certificate No. 7977 BACB 806745	
SURFACE LOCATION Lat - N 32°05'31.01" Long - W 103°50'31.41" NMSPCE- N 397520.3 E 652141.5 (NAD-27) 3315.4' 3321.7' 3313.7' 3309.3'		BOTTOM HOLE LOCATION Lat - N 32°05'31.09" Long - W 103°49'36.23" NMSPCE- N 397550.6 E 656887.6 (NAD-27)	

0' 1000' 2000' 3000' 4000'
SCALE: 1" = 2000'
WO Num.: 32345

SECTION 36, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



OWNER: STATE OF NEW MEXICO
LESSEE: DK FARMS INC

1. SEE DOCUMENTS FILED FOR RECORD IN THIS OFFICE WHICH DESCRIBE IN DETAIL THE RECONSTRUCTION OF THIS SECTION.
2. COORDINATES AND BEARINGS ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM NAD 83 AND DISTANCES ARE OF SURFACE VALUE.

LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 36, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S71°57'27\"W., 2712.3 FEET FROM THE NORTH QUARTER CORNER OF SAID SECTION 36; THENCE N90°00'00\"W., 50.0 FEET; THENCE N00°00'08\"W., 823.5 FEET TO A POINT ON THE NORTH SECTION LINE WHICH LIES N89°38'17\"E., 33.0 FEET FROM THE NORTHWEST CORNER OF SAID SECTION 36. SAID STRIP OF LAND BEING 873.5 FEET OR 52.94 RODS IN LENGTH AND CONTAINING 0.60 ACRES, MORE OR LESS, AND BEING ALLOCATED BY FORTIES AS FOLLOWS.

NW/4NW/4 52.94 RODS OR 0.60 ACRES

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.

GARY L. JONES

No. 7977
No. 5074

1000 0 1000 2000 FEET

BOPCO, L.P.

REF: PROPOSED POKER LAKE UNIT CVX JV PB 020H LEASE ROAD

A ROAD CROSSING STATE LAND IN
SECTION 36, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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Hobbs, New Mexico 88241
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SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

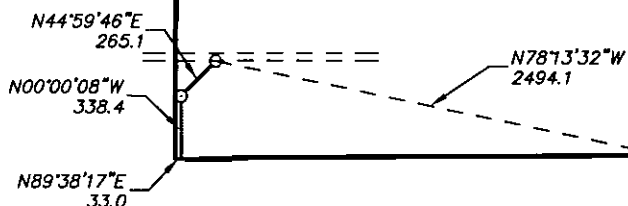
OWNER: USA
LESSEE: DK FARMS INC

1. SEE DOCUMENTS FILED FOR RECORD IN THIS OFFICE WHICH DESCRIBE IN DETAIL THE RECONSTRUCTION OF THIS SECTION.
2. COORDINATES AND BEARINGS ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM NAD 83 AND DISTANCES ARE OF SURFACE VALUE.

N

R-30-E
R-31-E

25

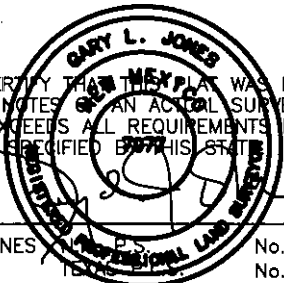


LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

603.5 FEET = 0.11 MILES = 36.58 RODS = 0.42 ACRES

I HEREBY CERTIFY THAT THIS MAP WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.



1000 0 1000 2000 FEET

BOPCO, L.P.

REF: PROPOSED POKER LAKE UNIT CVX JV PB 020H LEASE ROAD

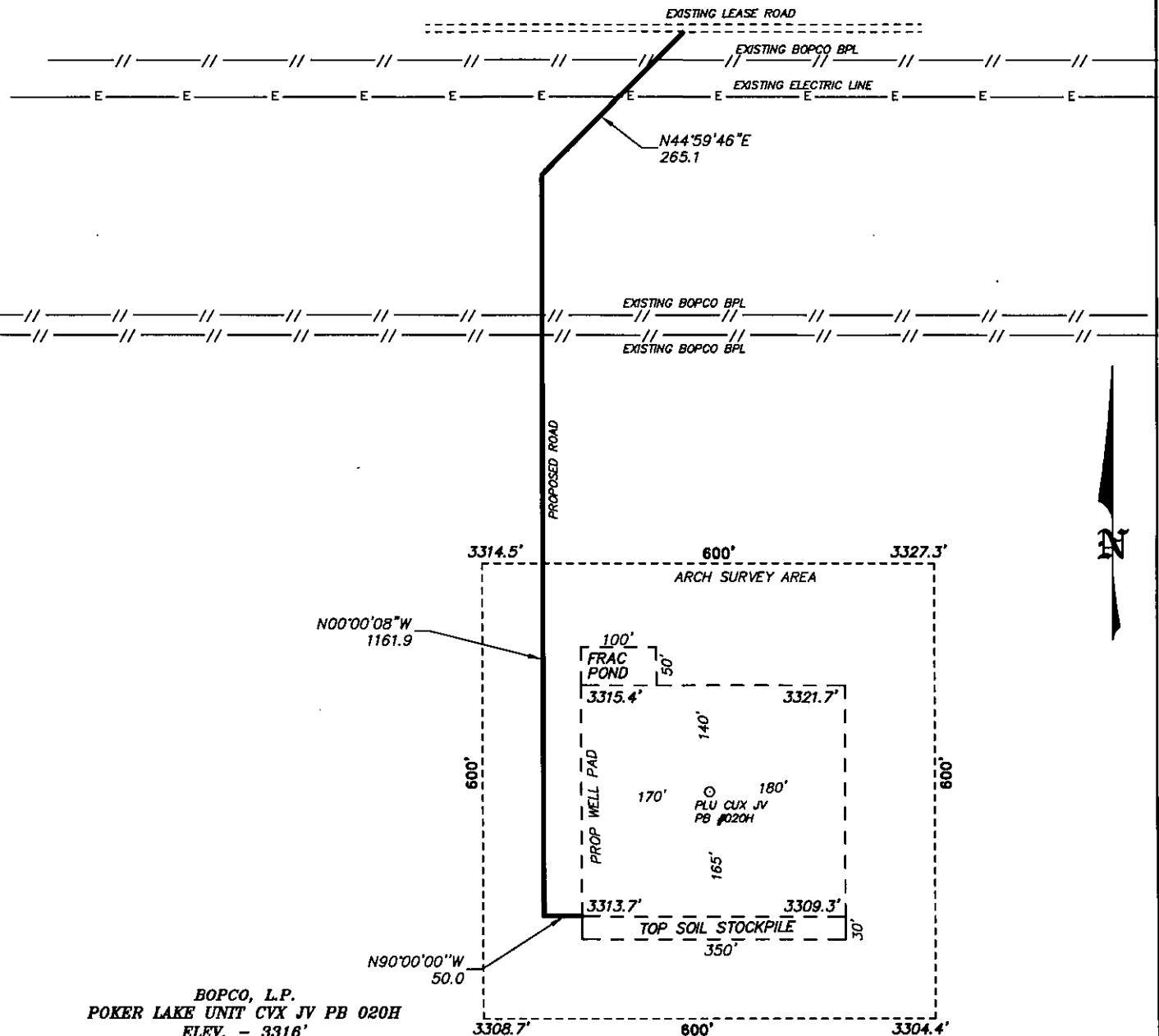
A ROAD CROSSING USA LAND IN
SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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W.O. Number: 32345 | Drawn By: J. GOAD | Date: 6-13-2016 | Survey Date: 6-9-2016 | Sheet 2 of 2 Sheets

SECTION 36, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



BOPCO, L.P.
POKER LAKE UNIT CVX JV PB 020H
ELEV. - 3316'

Lat - N 32°05'31.01"
Long - W 103°50'31.41"
NMSPC- N 397520.3
E 652141.5
(NAD-27)

Directions to Location:

FROM HIGHWAY 128 GO SOUTHWEST 7.8 MILES, WEST 0.94 MILES AND SOUTH 2.50 MILES ON BUCK JACKSON ROAD, THEN GO SOUTHWEST 1.19 MILES ON ROCK DOVE ROAD, THEN GO SOUTH 1.41 MILES ON LEASE ROAD GO EAST AND SOUTH 0.84 MILES ON HEDGEHOG ROAD, THEN GO EAST 0.51 MILES ON LEASE ROAD TO PROPOSED ROAD TO PROPOSED LOCATION.

LOVING, NM IS ±20 MILES TO THE NORTHWEST OF LOCATION.

200 0 200 400 FEET

SCALE: 1" = 200'

BOPCO, L.P.

REF: POKER LAKE UNIT CVX JV PB 020H / WELL PAD TOPO

THE POKER LAKE UNIT CVX JV PB 020H LOCATED 660' FROM

THE NORTH LINE AND 250' FROM THE WEST LINE OF

SECTION 36, TOWNSHIP 25 SOUTH, RANGE 30 EAST,

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

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W.O. Number: 32345

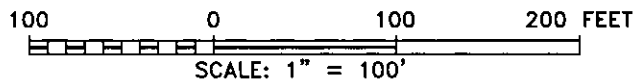
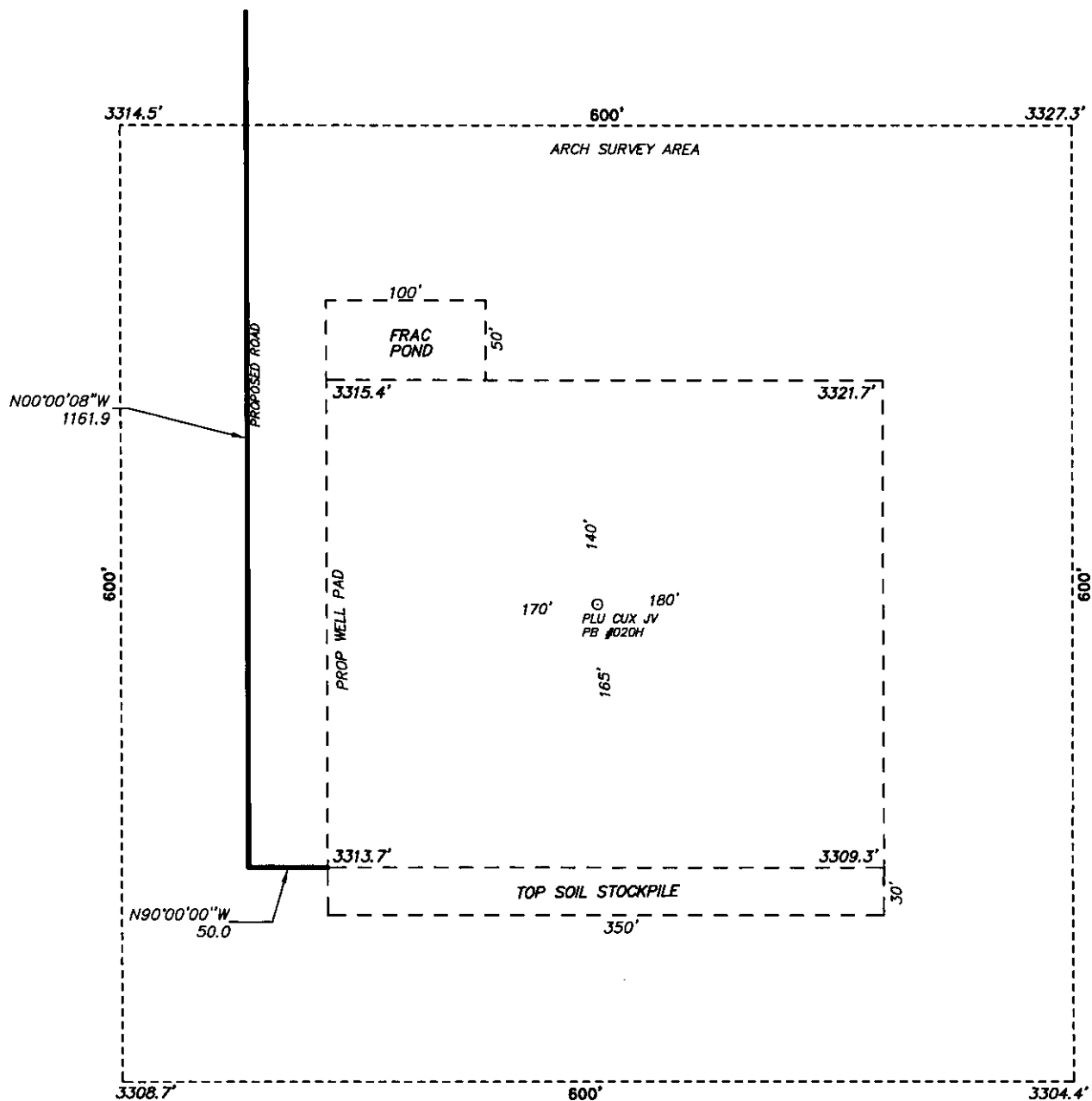
Drawn By: J GOAD

Date: 6-10-2016

Survey Date: 6-9-2016

Sheet 1 of 1 Sheets

SECTION 36, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



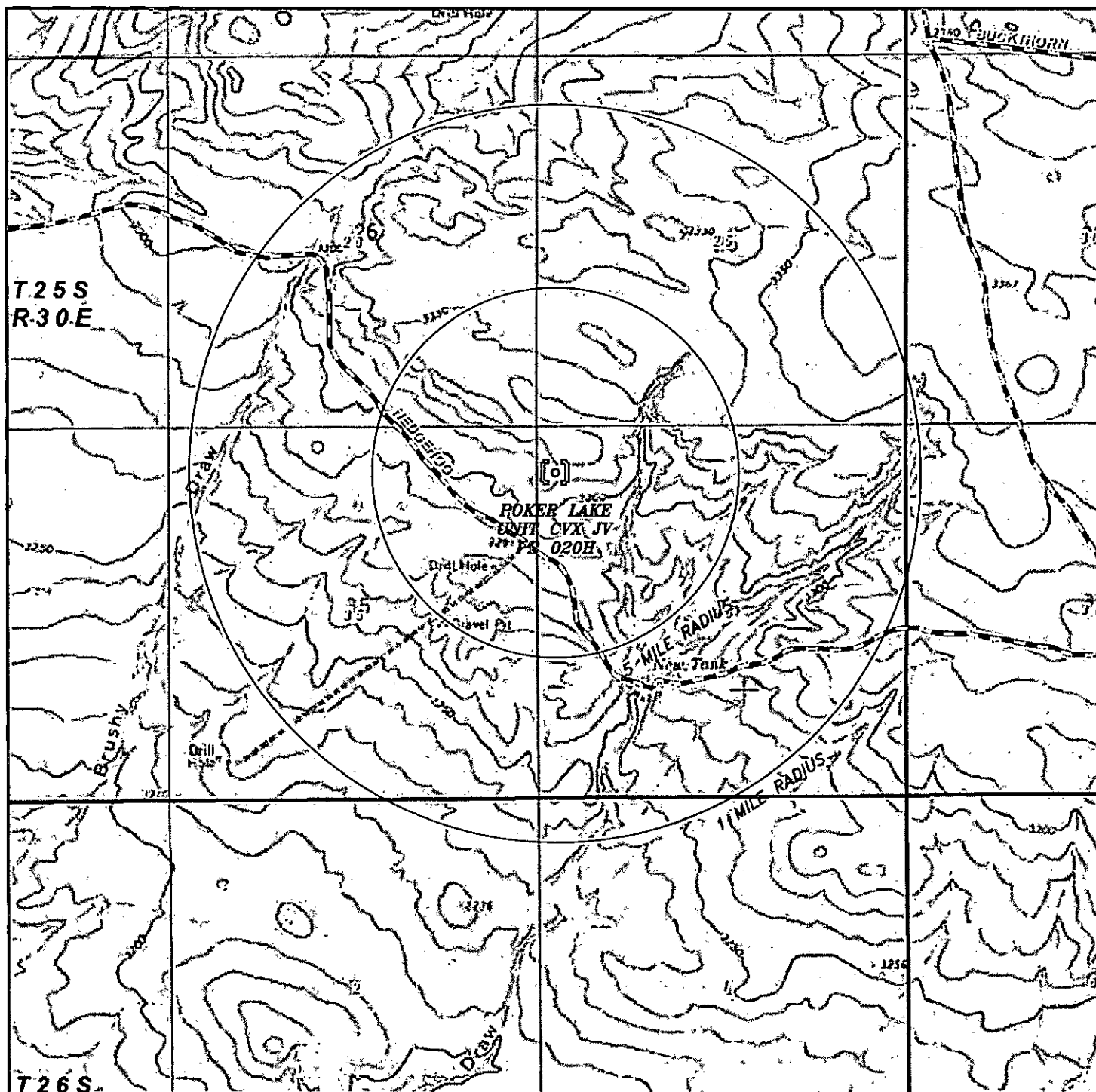
BOPCO, L.P.

REF: POKER LAKE UNIT CVX JV PB 020H / WELL PAD TOPO

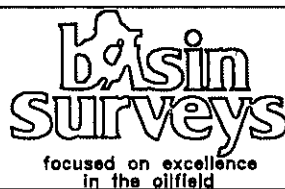
THE POKER LAKE UNIT CVX JV PB 020H LOCATED 660' FROM
THE NORTH LINE AND 250' FROM THE WEST LINE OF
SECTION 36, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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POKER LAKE UNIT CVX JV PB 020H
 Located 660' FNL and 250' FWL
 Section 36, 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'

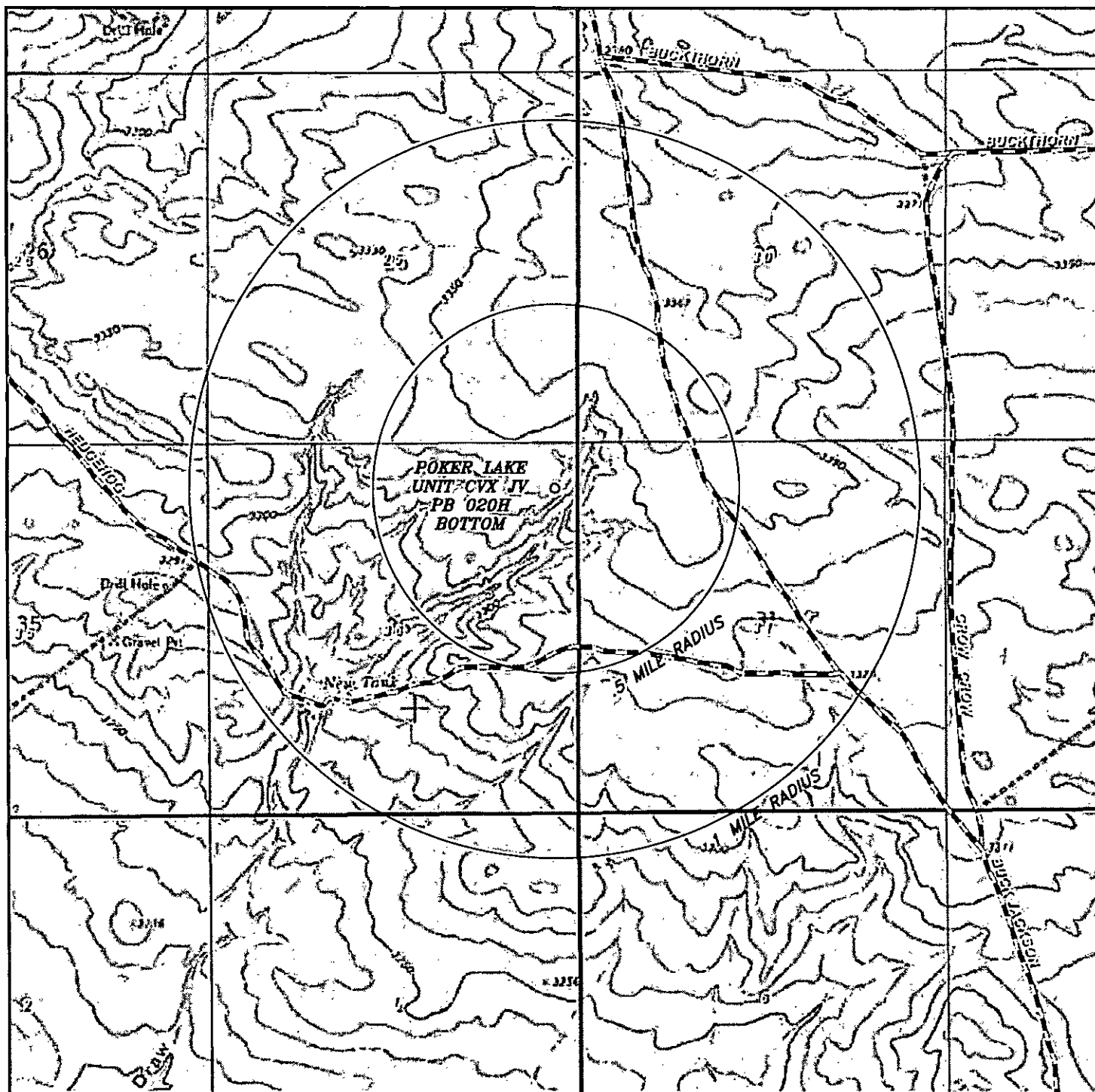
W.O. Number: JG 32345

Survey Date: 6-9-2016

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



BOPCO, L.P.



POKER LAKE UNIT CVX JV PB 020H BOTTOM
 Located 660' FNL and 330' FEL
 Section 36, Township 25 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.

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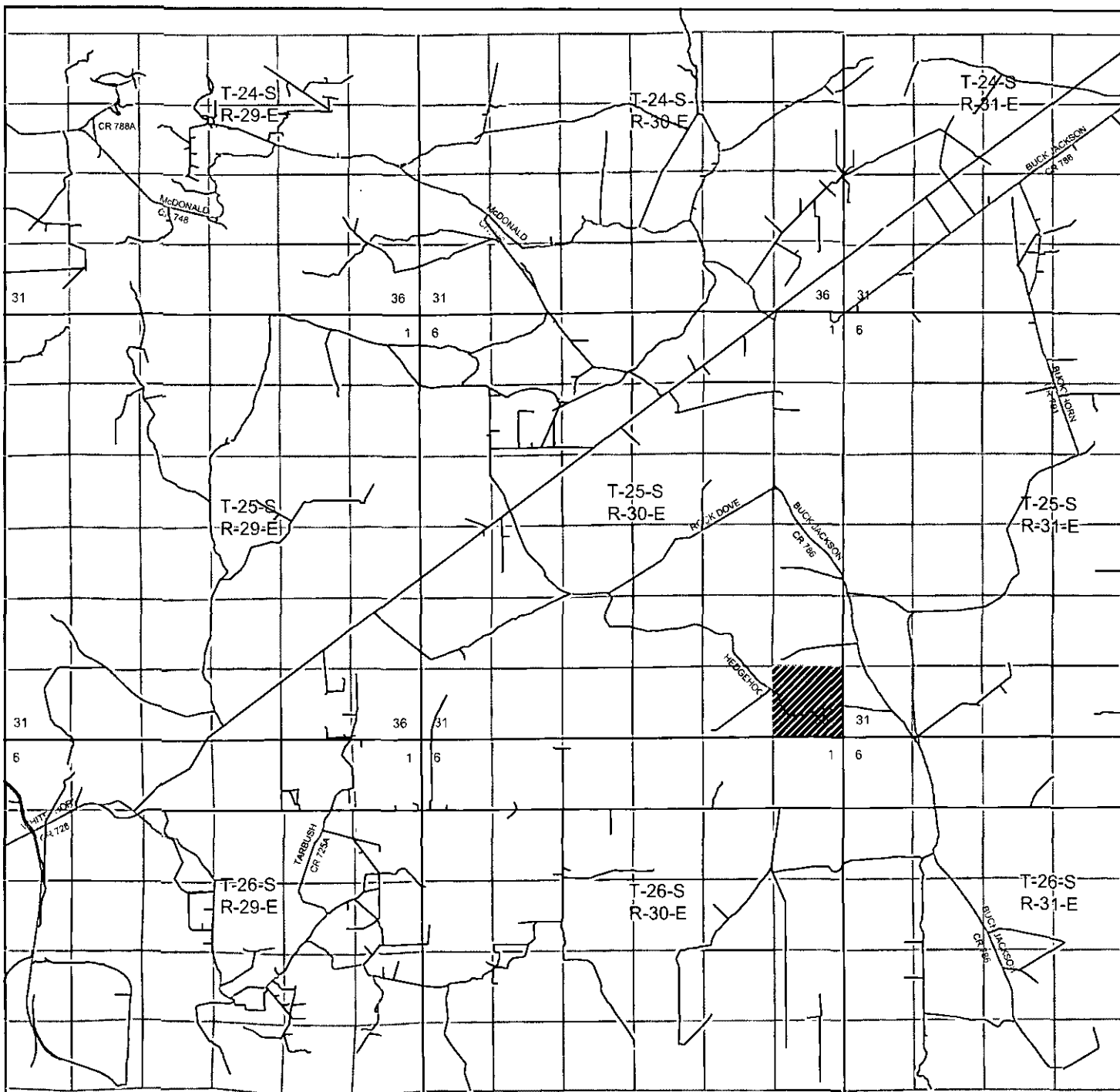
0' 1000' 2000' 3000' 4000'
 SCALE: 1" = 2000'

W.O. Number: JG 32345

Survey Date: 6-9-2016

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

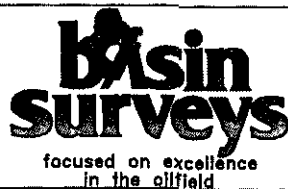
BOPCO, L.P.



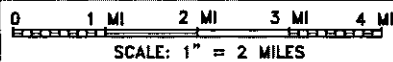
POKER LAKE UNIT CVX JV PB 020H

Located 660' FNL and 250' FWL

Section 36, Township 25 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.



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W.O. Number: JG 32345

Survey Date: 6-9-2016

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



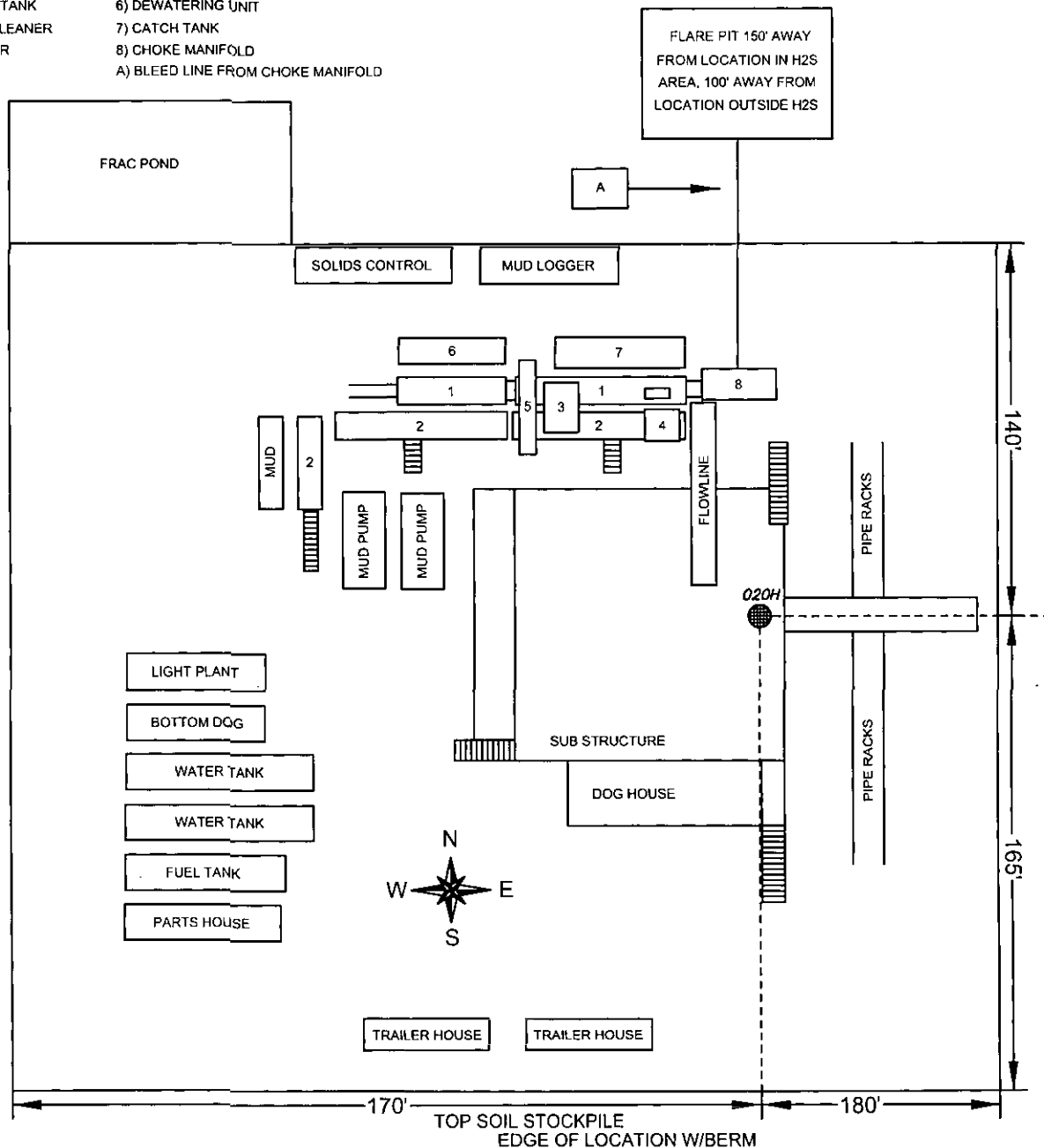
BOPCO, L.P.

EXHIBIT "D"

RIG LAYOUT SCHEMATIC
INCLUSIVE OF CLOSED-LOOP DESIGN PLAN

SOLIDS CONTROL EQUIPMENT LEGEND

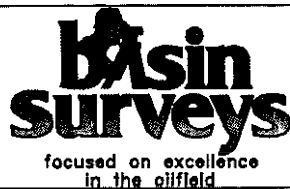
- | | |
|-----------------------------------|--------------------|
| 1) ROLL OFF BIN | 5) CENTRIFUGE |
| 2) STEEL TANK | 6) DEWATERING UNIT |
| 3) MUD CLEANER | 7) CATCH TANK |
| 4) SHAKER | 8) CHOKE MANIFOLD |
| A) BLEED LINE FROM CHOKE MANIFOLD | |



POKER LAKE UNIT CVX JV PB 020H

Located 660' FNL and 250' FWL

Section 36, Township 25 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.



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SCALE: NONE

W.O. Number: JG 32345

Survey Date: 6-9-2016



BOPCO, L.P.

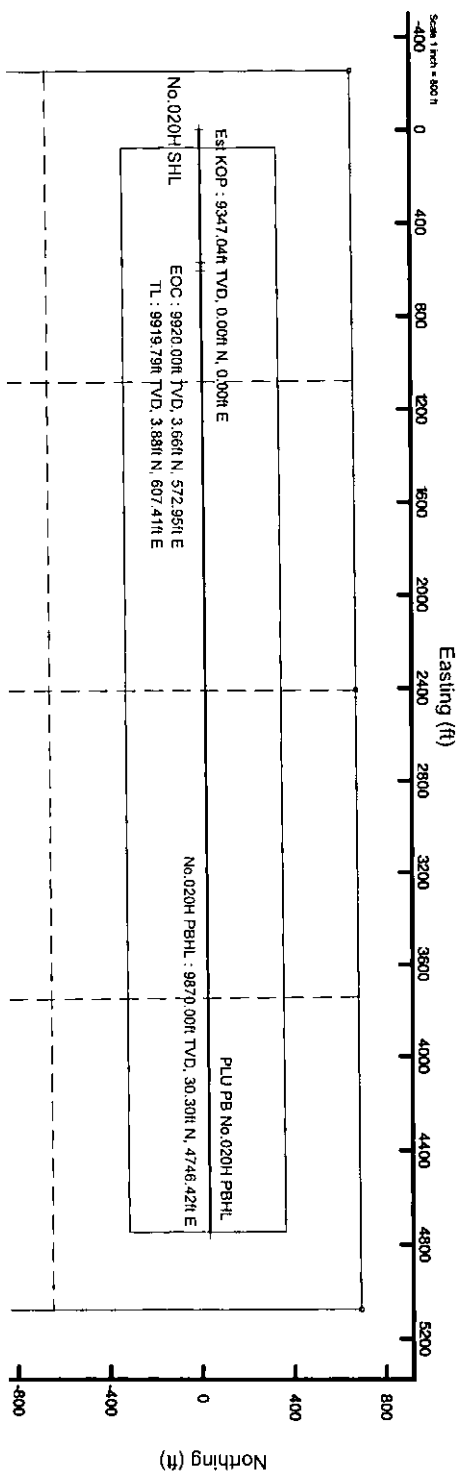


WTD - West Texas Division

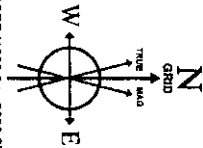
Location: Eddy County, NM
Field: Poker Lake Unit
Facility: PLU CVX JV PB No.020H

SLOT: No.020H SHL
Well: No.020H
Wellbore: No.020H PWB

BOPCO, L.P.

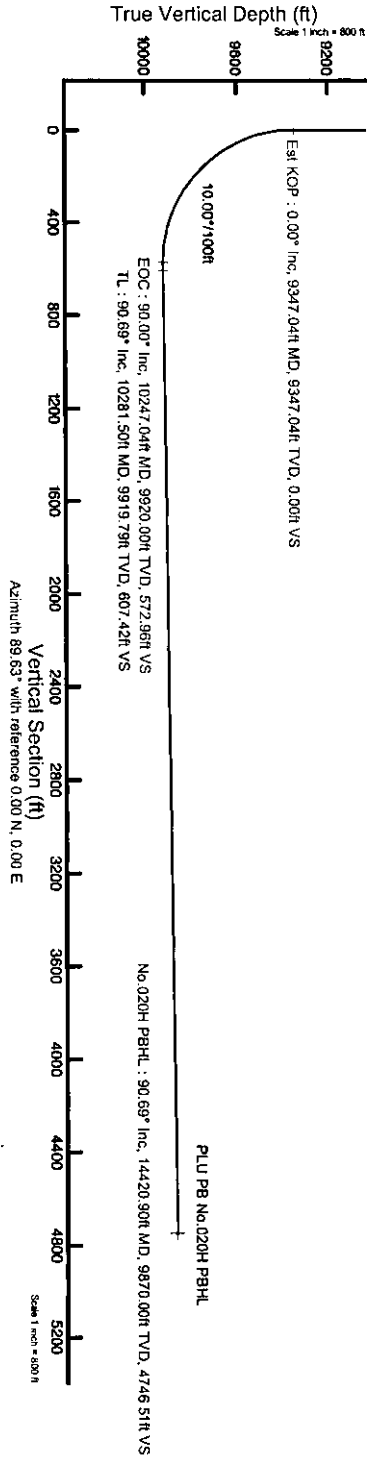


Well Profile Data									
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)	
Tie On	20.00	0.000	89.634	20.00	0.00	0.00	0.00	0.00	
Est KOP	9347.04	0.000	89.634	9347.04	0.00	0.00	0.00	0.00	
EOC	10247.04	90.000	89.634	9920.00	3.66	572.96	10.00	572.96	
TL	10281.50	90.689	89.634	9919.79	3.88	607.41	2.00	607.42	
No.020H PBHL	14420.90	90.689	89.634	9870.00	30.30	4746.42	0.00	4746.51	



Magnetic North is 7.18 degrees East of True North (at 6/13/2016)
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 6.92 degrees

Pul reference well path is B-1	
True vertical depths are referenced to Rig on No.020H SHL (KB)	Grid System: NAD27 / TLA New Mexico SP, Eastern Zone (3001) US feet
Measured depths are referenced to Rig on No.020H SHL (KB)	North Reference: Grid north
Rig on No.020H SHL (KB) to Mean Sea Level: 3365 feet	Scale: True distance
Mean Sea Level is fluid line (A) Slot No.020H SHL: -3345 feet	Depths are in feet
Coordinates are in feet referenced to Slot	
Created by: BWCenry on 6/13/2016	





Planned Wellpath Report

B-1
Page 1 of 5

BOPCO, L.P.

REFERENCE WELLPATH IDENTIFICATION			
Operator	WTD - West Texas Division	Slot	No.020H SHL
Area	Eddy County, NM	Well	No.020H
Field	Poker Lake Unit	Wellbore	No.020H PWB
Facility	PLU CVX JV PB No.020H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.1.1
North Reference	Grid	User	BWGentry
Scale	0.999936	Report Generated	6/13/2016 at 1:11:52 PM
Convergence at slot	0.26° East	Database/Source file	WellArchitectDB/No.020H_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	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W
Facility Reference Pt			652141.50	397520.30	32°05'31.008"N	103°50'31.408"W
Field Reference Pt			675156.40	424489.10	32°09'56.776"N	103°46'02.231"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No.020H SHL (KB) to Facility Vertical Datum	20.00ft
Horizontal Reference Pt	Slot	Rig on No.020H SHL (KB) to Mean Sea Level	3365.00ft
Vertical Reference Pt	Rig on No.020H SHL (KB)	Rig on No.020H SHL (KB) to Mud Line at Slot (No.020H SHL)	20.00ft
MD Reference Pt	Rig on No.020H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.63°



Planned Wellpath Report

B-1

Page 2 of 5

BOPCO, L.P.

REFERENCE WELLPATH IDENTIFICATION

Operator	WTD - West Texas Division	Slot	No.020H SHL
Area	Eddy County, NM	Well	No.020H
Field	Poker Lake Unit	Wellbore	No.020H PWB
Facility	PLU CVX JV PB No.020H		

WELLPATH DATA (159 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	89.634	0.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
20.00	0.000	89.634	20.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	Tie On
120.00†	0.000	89.634	120.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
220.00†	0.000	89.634	220.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
320.00†	0.000	89.634	320.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
420.00†	0.000	89.634	420.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
520.00†	0.000	89.634	520.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
620.00†	0.000	89.634	620.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
720.00†	0.000	89.634	720.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
820.00†	0.000	89.634	820.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
908.00†	0.000	89.634	908.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	Rustler
920.00†	0.000	89.634	920.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
1020.00†	0.000	89.634	1020.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
1120.00†	0.000	89.634	1120.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
1220.00†	0.000	89.634	1220.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
1245.00†	0.000	89.634	1245.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	Salado
1320.00†	0.000	89.634	1320.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
1420.00†	0.000	89.634	1420.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
1520.00†	0.000	89.634	1520.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
1620.00†	0.000	89.634	1620.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
1720.00†	0.000	89.634	1720.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
1820.00†	0.000	89.634	1820.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
1920.00†	0.000	89.634	1920.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
2020.00†	0.000	89.634	2020.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
2120.00†	0.000	89.634	2120.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
2220.00†	0.000	89.634	2220.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
2320.00†	0.000	89.634	2320.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
2420.00†	0.000	89.634	2420.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
2520.00†	0.000	89.634	2520.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
2620.00†	0.000	89.634	2620.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
2720.00†	0.000	89.634	2720.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
2820.00†	0.000	89.634	2820.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
2920.00†	0.000	89.634	2920.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
3020.00†	0.000	89.634	3020.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
3120.00†	0.000	89.634	3120.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
3220.00†	0.000	89.634	3220.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
3320.00†	0.000	89.634	3320.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
3420.00†	0.000	89.634	3420.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
3520.00†	0.000	89.634	3520.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
3620.00†	0.000	89.634	3620.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
3720.00†	0.000	89.634	3720.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
3801.00†	0.000	89.634	3801.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	Base/Salt
3820.00†	0.000	89.634	3820.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
3920.00†	0.000	89.634	3920.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
4003.00†	0.000	89.634	4003.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	Lamar



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BOPCO, L.P.

REFERENCE WELLPATH IDENTIFICATION

Operator	WTD - West Texas Division	Slot	No.020H SHL
Area	Eddy County, NM	Well	No.020H
Field	Poker Lake Unit	Wellbore	No.020H PWB
Facility	PLU CVX JV PB No.020H		

WELLPATH DATA (159 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
4020.00†	0.000	89.634	4020.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
4031.00†	0.000	89.634	4031.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	Ramsey
4120.00†	0.000	89.634	4120.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
4220.00†	0.000	89.634	4220.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
4320.00†	0.000	89.634	4320.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
4420.00†	0.000	89.634	4420.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
4520.00†	0.000	89.634	4520.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
4620.00†	0.000	89.634	4620.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
4720.00†	0.000	89.634	4720.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
4820.00†	0.000	89.634	4820.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
4920.00†	0.000	89.634	4920.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
4961.00†	0.000	89.634	4961.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	Cherry Canyon
5020.00†	0.000	89.634	5020.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
5120.00†	0.000	89.634	5120.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
5220.00†	0.000	89.634	5220.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
5320.00†	0.000	89.634	5320.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
5420.00†	0.000	89.634	5420.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
5520.00†	0.000	89.634	5520.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
5620.00†	0.000	89.634	5620.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
5720.00†	0.000	89.634	5720.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
5820.00†	0.000	89.634	5820.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
5920.00†	0.000	89.634	5920.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
6020.00†	0.000	89.634	6020.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
6120.00†	0.000	89.634	6120.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
6200.00†	0.000	89.634	6200.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	Brushy Canyon
6220.00†	0.000	89.634	6220.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
6320.00†	0.000	89.634	6320.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
6420.00†	0.000	89.634	6420.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
6520.00†	0.000	89.634	6520.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
6620.00†	0.000	89.634	6620.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
6720.00†	0.000	89.634	6720.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
6820.00†	0.000	89.634	6820.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
6920.00†	0.000	89.634	6920.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
7020.00†	0.000	89.634	7020.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
7120.00†	0.000	89.634	7120.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
7220.00†	0.000	89.634	7220.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
7320.00†	0.000	89.634	7320.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
7420.00†	0.000	89.634	7420.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
7520.00†	0.000	89.634	7520.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
7620.00†	0.000	89.634	7620.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
7720.00†	0.000	89.634	7720.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
7820.00†	0.000	89.634	7820.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
7920.00†	0.000	89.634	7920.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
7977.00†	0.000	89.634	7977.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	Bone Spring
8020.00†	0.000	89.634	8020.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	



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BOPCO, L.P.

REFERENCE WELLPATH IDENTIFICATION

Operator	WTD - West Texas Division	Slot	No.020H SHL
Area	Eddy County, NM	Well	No.020H
Field	Poker Lake Unit	Wellbore	No.020H PWB
Facility	PLU CVX JV PB No.020H		

WELLPATH DATA (159 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
8120.00†	0.000	89.634	8120.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
8220.00†	0.000	89.634	8220.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
8320.00†	0.000	89.634	8320.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
8420.00†	0.000	89.634	8420.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
8520.00†	0.000	89.634	8520.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
8620.00†	0.000	89.634	8620.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
8720.00†	0.000	89.634	8720.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
8820.00†	0.000	89.634	8820.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
8920.00†	0.000	89.634	8920.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
9020.00†	0.000	89.634	9020.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
9120.00†	0.000	89.634	9120.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
9220.00†	0.000	89.634	9220.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
9320.00†	0.000	89.634	9320.00	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	
9347.04	0.000	89.634	9347.04	0.00	0.00	0.00	652141.50	397520.30	32°05'31.008"N	103°50'31.408"W	0.00	Est KOP
9420.00†	7.296	89.634	9419.80	4.64	0.03	4.64	652146.14	397520.33	32°05'31.008"N	103°50'31.354"W	10.00	
9520.00†	17.296	89.634	9517.39	25.91	0.17	25.91	652167.41	397520.47	32°05'31.008"N	103°50'31.106"W	10.00	
9600.15†	25.311	89.634	9592.00	55.00	0.35	55.00	652196.50	397520.65	32°05'31.009"N	103°50'30.768"W	10.00	Bone Spring
9620.00†	27.296	89.634	9609.79	63.80	0.41	63.80	652205.29	397520.71	32°05'31.009"N	103°50'30.666"W	10.00	
9720.00†	37.296	89.634	9694.21	117.16	0.75	117.16	652258.65	397521.05	32°05'31.010"N	103°50'30.046"W	10.00	
9820.00†	47.296	89.634	9768.09	184.37	1.18	184.37	652325.85	397521.48	32°05'31.011"N	103°50'29.264"W	10.00	
9920.00†	57.296	89.634	9829.17	263.39	1.68	263.38	652404.86	397521.98	32°05'31.012"N	103°50'28.346"W	10.00	
10020.00†	67.296	89.634	9875.60	351.81	2.25	351.80	652493.28	397522.55	32°05'31.014"N	103°50'27.318"W	10.00	
10120.00†	77.296	89.634	9905.97	446.95	2.86	446.94	652588.42	397523.15	32°05'31.016"N	103°50'26.212"W	10.00	
10220.00†	87.296	89.634	9919.36	545.93	3.49	545.91	652687.38	397523.79	32°05'31.018"N	103°50'25.062"W	10.00	
10247.04	90.000	89.634	9920.00	572.96	3.66	572.95	652714.41	397523.96	32°05'31.018"N	103°50'24.748"W	10.00	EOC
10281.50	90.689	89.634	9919.79	607.42	3.88	607.41	652748.87	397524.18	32°05'31.019"N	103°50'24.347"W	2.00	TL
10320.00†	90.689	89.634	9919.33	645.91	4.13	645.90	652787.36	397524.43	32°05'31.019"N	103°50'23.900"W	0.00	
10420.00†	90.689	89.634	9918.13	745.90	4.76	745.89	652887.34	397525.06	32°05'31.021"N	103°50'22.737"W	0.00	
10520.00†	90.689	89.634	9916.92	845.90	5.40	845.88	652987.32	397525.70	32°05'31.023"N	103°50'21.575"W	0.00	
10620.00†	90.689	89.634	9915.72	945.89	6.04	945.87	653087.31	397526.34	32°05'31.025"N	103°50'20.413"W	0.00	
10720.00†	90.689	89.634	9914.52	1045.88	6.68	1045.86	653187.29	397526.98	32°05'31.027"N	103°50'19.251"W	0.00	
10820.00†	90.689	89.634	9913.32	1145.88	7.32	1145.85	653287.28	397527.62	32°05'31.028"N	103°50'18.088"W	0.00	
10920.00†	90.689	89.634	9912.11	1245.87	7.96	1245.84	653387.26	397528.26	32°05'31.030"N	103°50'16.926"W	0.00	
11020.00†	90.689	89.634	9910.91	1345.86	8.59	1345.83	653487.24	397528.89	32°05'31.032"N	103°50'15.764"W	0.00	
11120.00†	90.689	89.634	9909.71	1445.85	9.23	1445.82	653587.23	397529.53	32°05'31.034"N	103°50'14.601"W	0.00	
11220.00†	90.689	89.634	9908.50	1545.85	9.87	1545.82	653687.21	397530.17	32°05'31.035"N	103°50'13.439"W	0.00	
11320.00†	90.689	89.634	9907.30	1645.84	10.51	1645.81	653787.20	397530.81	32°05'31.037"N	103°50'12.277"W	0.00	
11420.00†	90.689	89.634	9906.10	1745.83	11.15	1745.80	653887.18	397531.45	32°05'31.039"N	103°50'11.115"W	0.00	
11520.00†	90.689	89.634	9904.89	1845.83	11.79	1845.79	653987.16	397532.08	32°05'31.041"N	103°50'09.952"W	0.00	
11620.00†	90.689	89.634	9903.69	1945.82	12.42	1945.78	654087.15	397532.72	32°05'31.042"N	103°50'08.790"W	0.00	
11720.00†	90.689	89.634	9902.49	2045.81	13.06	2045.77	654187.13	397533.36	32°05'31.044"N	103°50'07.628"W	0.00	
11820.00†	90.689	89.634	9901.29	2145.80	13.70	2145.76	654287.12	397534.00	32°05'31.046"N	103°50'06.466"W	0.00	
11920.00†	90.689	89.634	9900.08	2245.80	14.34	2245.75	654387.10	397534.64	32°05'31.048"N	103°50'05.303"W	0.00	
12020.00†	90.689	89.634	9898.88	2345.79	14.98	2345.74	654487.09	397535.28	32°05'31.049"N	103°50'04.141"W	0.00	
12120.00†	90.689	89.634	9897.68	2445.78	15.62	2445.73	654587.07	397535.91	32°05'31.051"N	103°50'02.979"W	0.00	



Planned Wellpath Report

B-1

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BOPCO, L.P.

REFERENCE WELLPATH IDENTIFICATION

Operator	WTD - West Texas Division	Slot	No.020H SHL
Area	Eddy County, NM	Well	No.020H
Field	Poker Lake Unit	Wellbore	No.020H PWB
Facility	PLU CVX JV PB No.020H		

WELLPATH DATA (159 stations) † = interpolated/extrapolated station

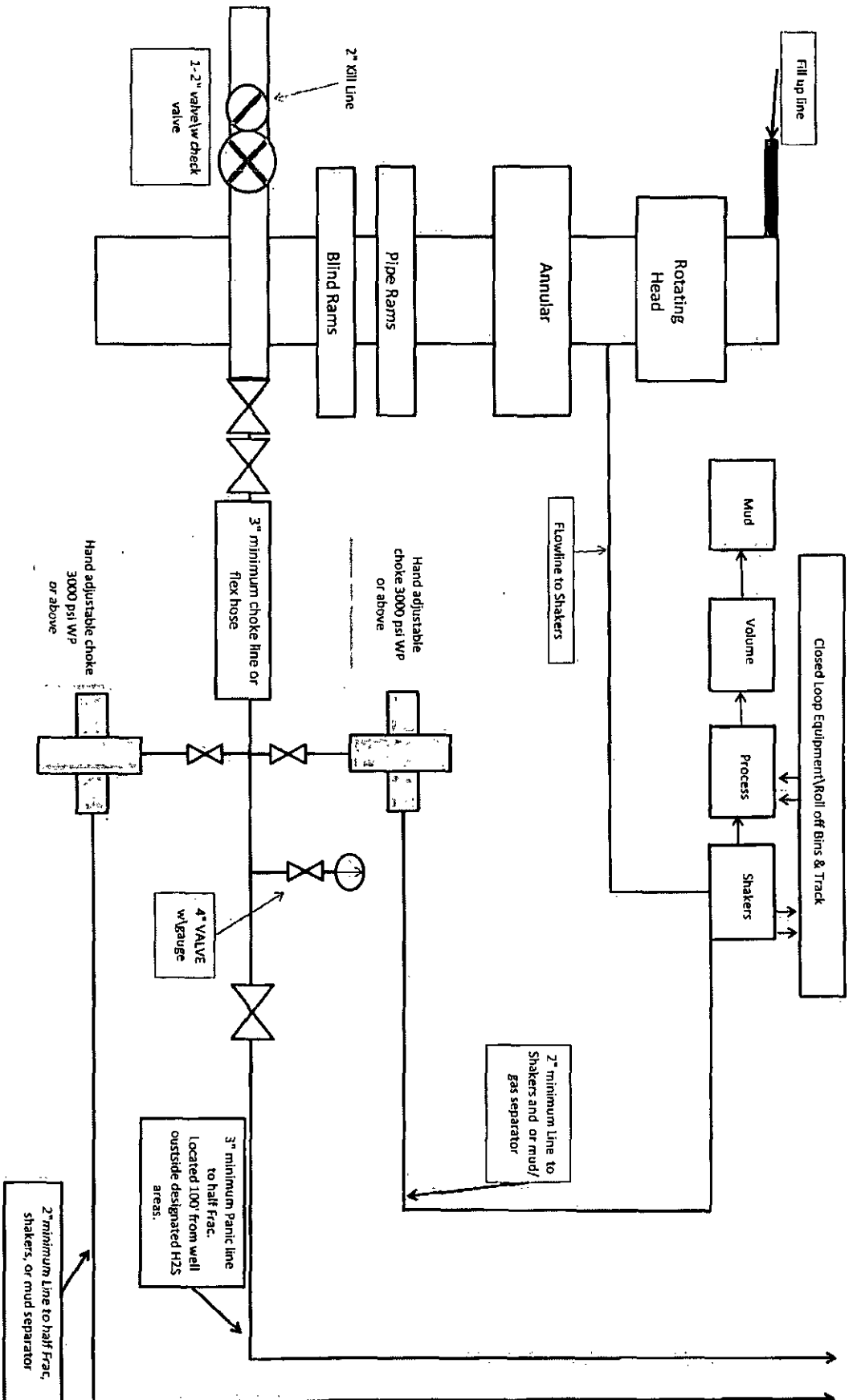
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS °/100ft	Comments
12220.00†	90.689	89.634	9896.47	2545.77	16.25	2545.72	654687.05	397536.55	32°05'31.053"N	103°50'01.816"W	0.00	
12320.00†	90.689	89.634	9895.27	2645.77	16.89	2645.71	654787.04	397537.19	32°05'31.055"N	103°50'00.654"W	0.00	
12420.00†	90.689	89.634	9894.07	2745.76	17.53	2745.70	654887.02	397537.83	32°05'31.056"N	103°49'59.492"W	0.00	
12520.00†	90.689	89.634	9892.87	2845.75	18.17	2845.69	654987.01	397538.47	32°05'31.058"N	103°49'58.330"W	0.00	
12620.00†	90.689	89.634	9891.66	2945.75	18.81	2945.69	655086.99	397539.11	32°05'31.060"N	103°49'57.167"W	0.00	
12720.00†	90.689	89.634	9890.46	3045.74	19.45	3045.68	655186.97	397539.74	32°05'31.061"N	103°49'56.005"W	0.00	
12820.00†	90.689	89.634	9889.26	3145.73	20.08	3145.67	655286.96	397540.38	32°05'31.063"N	103°49'54.843"W	0.00	
12920.00†	90.689	89.634	9888.05	3245.72	20.72	3245.66	655386.94	397541.02	32°05'31.065"N	103°49'53.680"W	0.00	
13020.00†	90.689	89.634	9886.85	3345.72	21.36	3345.65	655486.93	397541.66	32°05'31.067"N	103°49'52.518"W	0.00	
13120.00†	90.689	89.634	9885.65	3445.71	22.00	3445.64	655586.91	397542.30	32°05'31.068"N	103°49'51.356"W	0.00	
13220.00†	90.689	89.634	9884.45	3545.70	22.64	3545.63	655686.89	397542.94	32°05'31.070"N	103°49'50.194"W	0.00	
13320.00†	90.689	89.634	9883.24	3645.69	23.27	3645.62	655786.88	397543.57	32°05'31.072"N	103°49'49.031"W	0.00	
13420.00†	90.689	89.634	9882.04	3745.69	23.91	3745.61	655886.86	397544.21	32°05'31.073"N	103°49'47.869"W	0.00	
13520.00†	90.689	89.634	9880.84	3845.68	24.55	3845.60	655986.85	397544.85	32°05'31.075"N	103°49'46.707"W	0.00	
13620.00†	90.689	89.634	9879.63	3945.67	25.19	3945.59	656086.83	397545.49	32°05'31.077"N	103°49'45.545"W	0.00	
13720.00†	90.689	89.634	9878.43	4045.67	25.83	4045.58	656186.81	397546.13	32°05'31.079"N	103°49'44.382"W	0.00	
13820.00†	90.689	89.634	9877.23	4145.66	26.47	4145.57	656286.80	397546.76	32°05'31.080"N	103°49'43.220"W	0.00	
13920.00†	90.689	89.634	9876.03	4245.65	27.10	4245.56	656386.78	397547.40	32°05'31.082"N	103°49'42.058"W	0.00	
14020.00†	90.689	89.634	9874.82	4345.64	27.74	4345.56	656486.77	397548.04	32°05'31.084"N	103°49'40.895"W	0.00	
14120.00†	90.689	89.634	9873.62	4445.64	28.38	4445.55	656586.75	397548.68	32°05'31.085"N	103°49'39.733"W	0.00	
14220.00†	90.689	89.634	9872.42	4545.63	29.02	4545.54	656686.74	397549.32	32°05'31.087"N	103°49'38.571"W	0.00	
14320.00†	90.689	89.634	9871.21	4645.62	29.66	4645.53	656786.72	397549.96	32°05'31.089"N	103°49'37.409"W	0.00	
14397.14†	90.689	89.634	9870.29	4722.76	30.15	4722.66	656863.85	397550.45	32°05'31.090"N	103°49'36.512"W	0.00	
14420.90	90.689	89.634	9870.00	4746.51	30.30	4746.42	656887.60	397550.60	32°05'31.090"N	103°49'36.236"W	0.00	No.020H PBL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) PLU PB No.020H PBL	14420.90	9870.00	30.30	4746.42	656887.60	397550.60	32°05'31.090"N	103°49'36.236"W	point

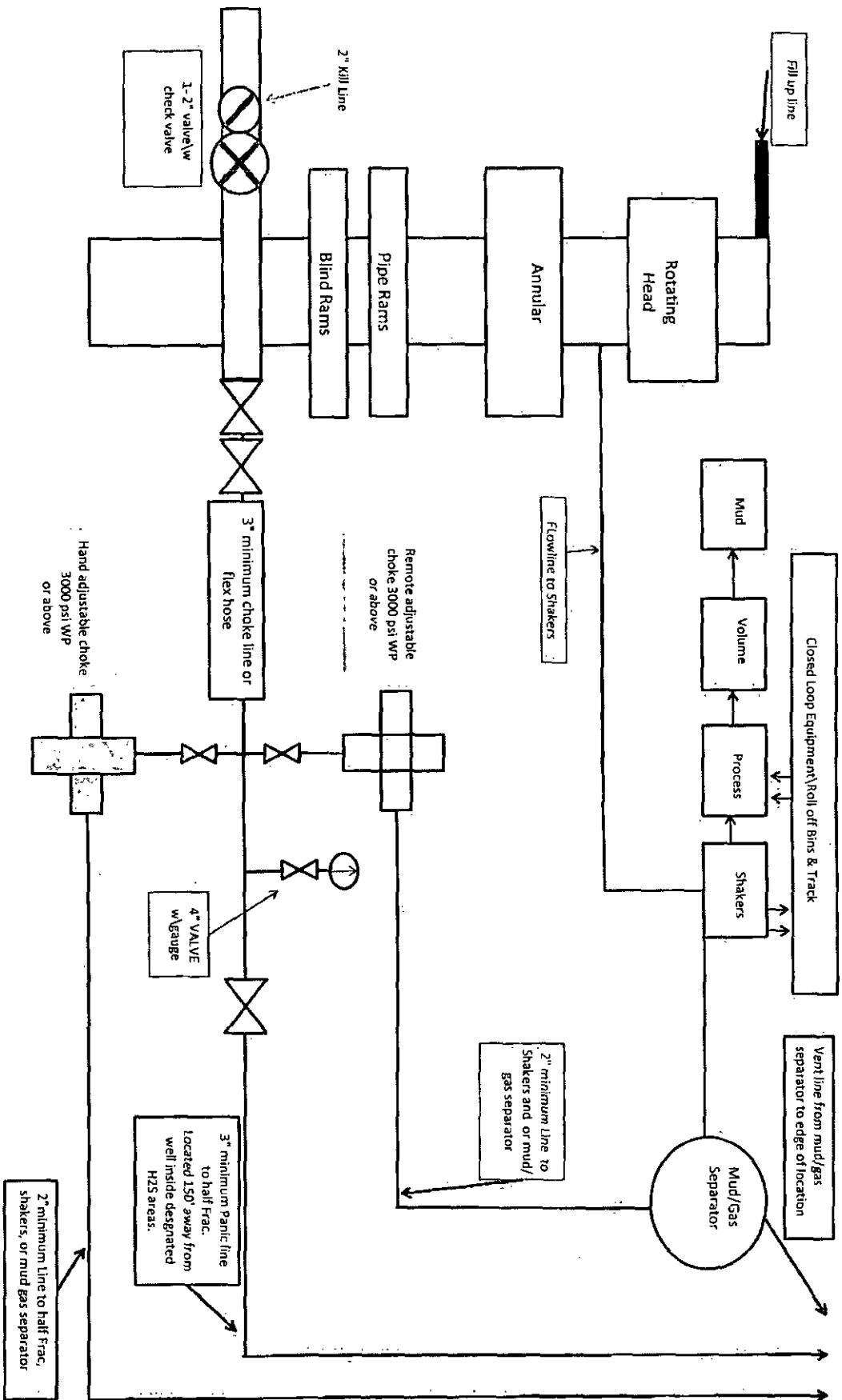
SURVEY PROGRAM - Ref Wellbore: No.020H PWB Ref Wellpath: B-1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	9000.00	Generic gyro - northseeking (Standard)		No.020H PWB
9000.00	14420.90	ISCWSA MWD, Rev. 3 (Standard)		No.020H PWB



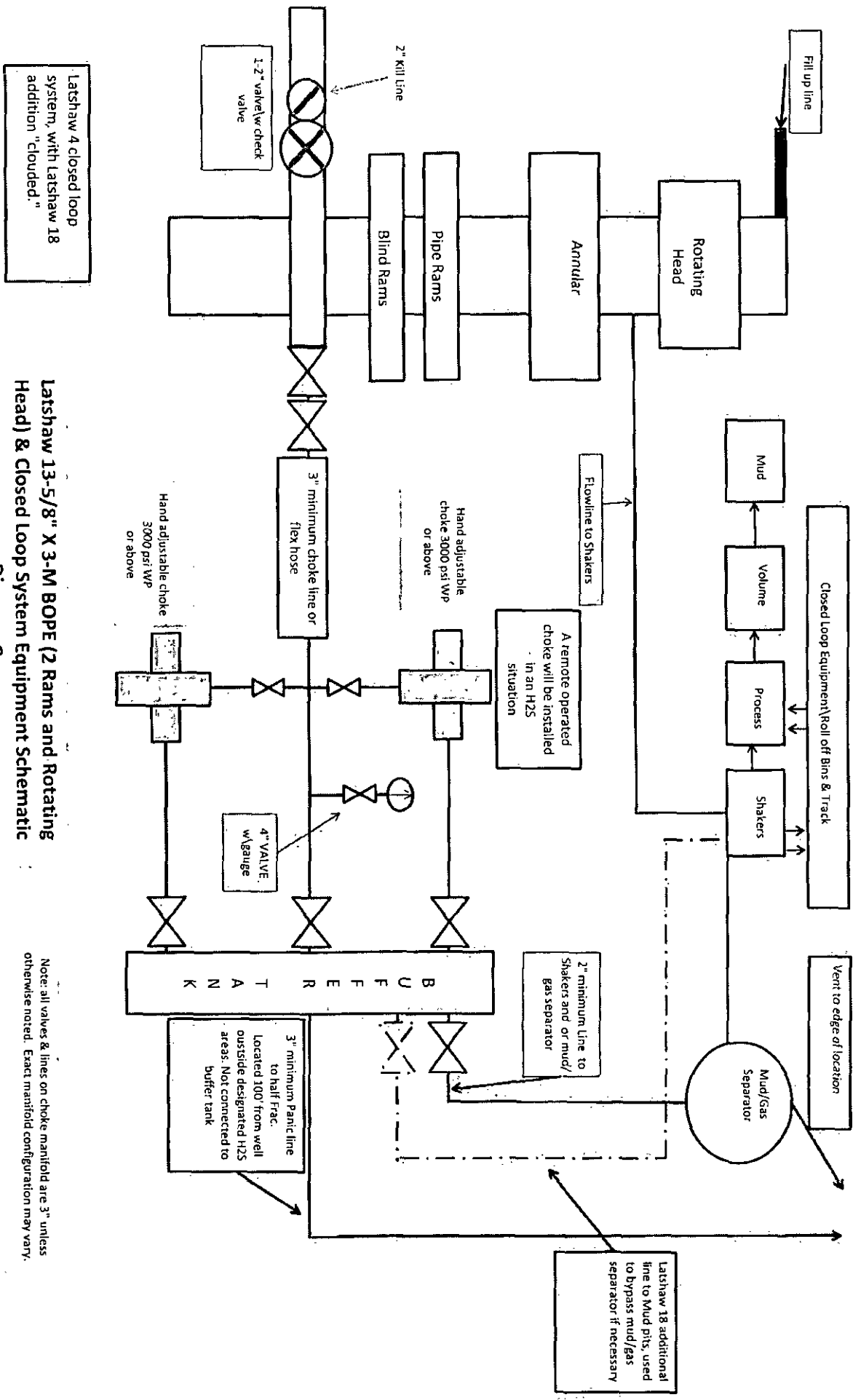
**13-5/8" X 3-M BOPE (2 Rams and Rotating Head) &
Closed Loop System Equipment Schematic
Diagram A**

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.



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

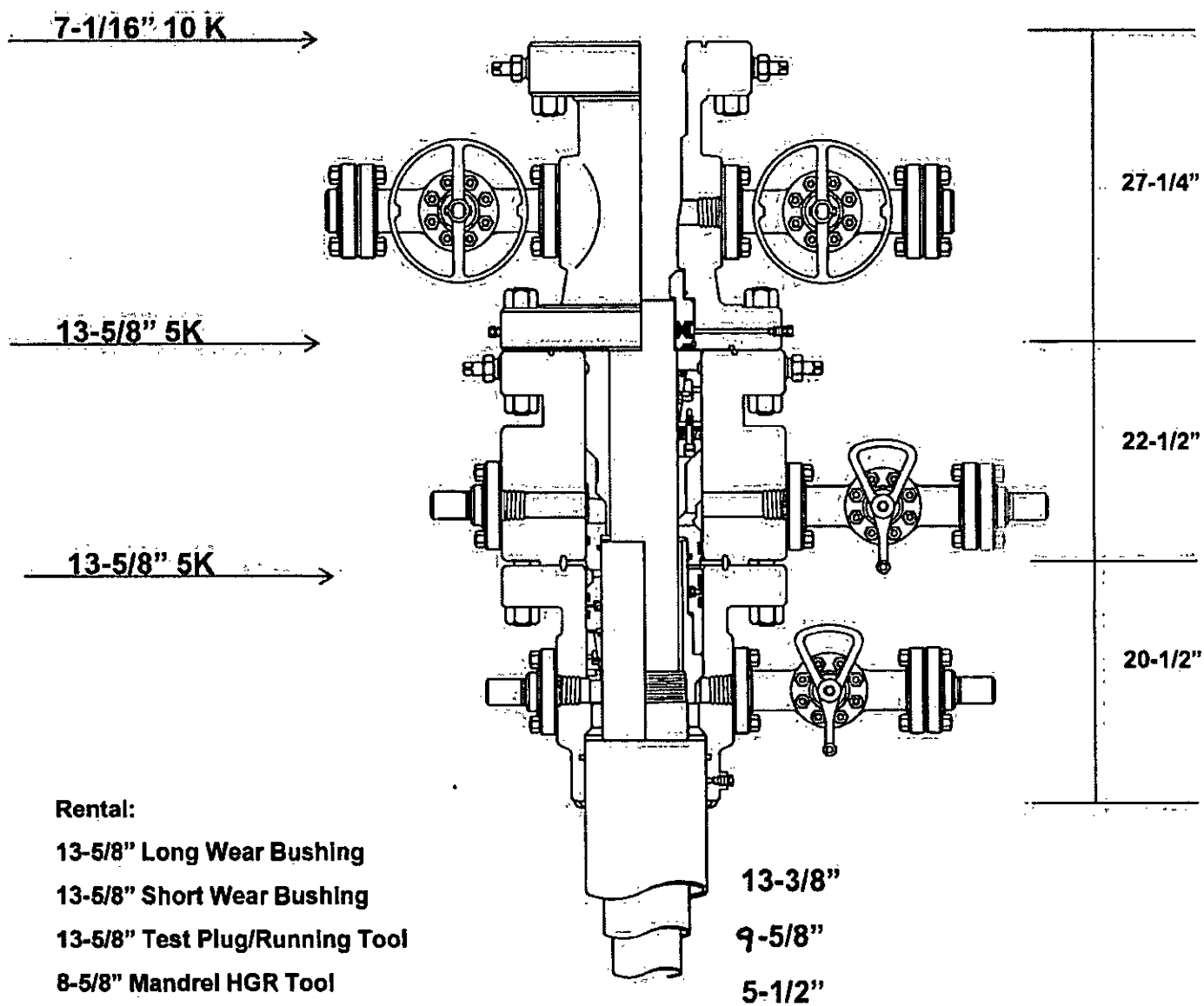
Lathshaw 4 closed loop system, with Lathshaw 18 addition "clouded."

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



CUSTOMER: BOPCO

Diagram "Z"



Rental:

13-5/8" Long Wear Bushing

13-5/8" Short Wear Bushing

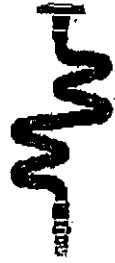
13-5/8" Test Plug/Running Tool

8-5/8" Mandrel HGR Tool

Packoff Support Bushing Running Tool

Jetting/Wash Tool





Midwest Hose
& Specialty Inc.

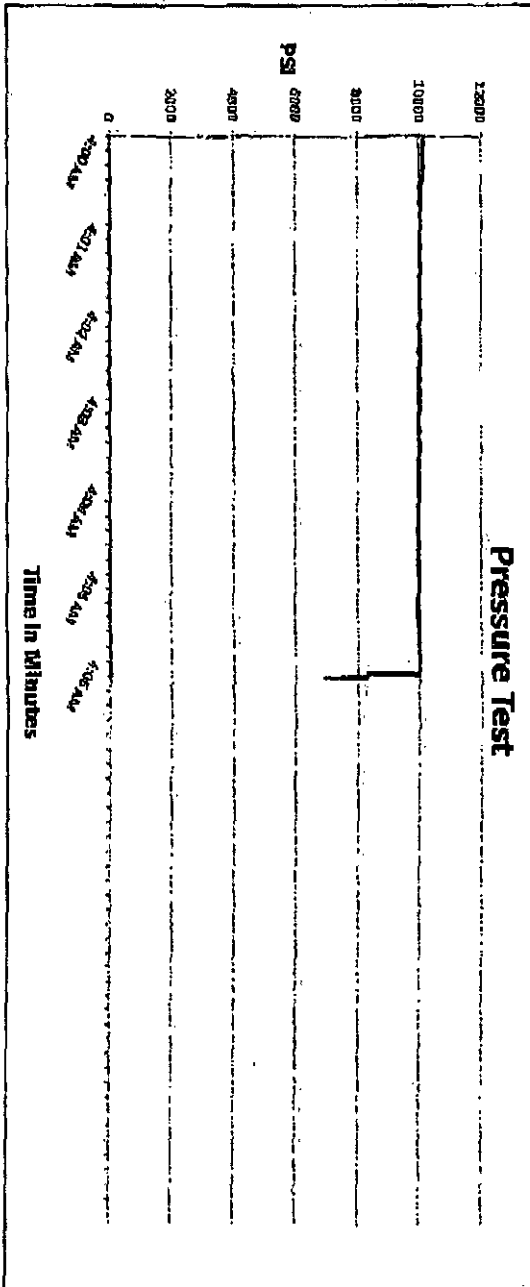
Internal Hydrostatic Test Graph

April 4, 2012

Customer: Latshaw

Pick Ticket #: 81610

Hose Specifications	Length	Verification
Hose Type D	30'	Type of Fittings 41/26 3K
I.D. 3"	O.D. 4 15/32"	Disc Size 5.17"
Working Pressure 5000 PSI	Burst Pressure Standard 3 times working pressure	Hose Serial # 5894
		Coupling Method Savage
		Final O.D. 5.16"
		Hose Assembly Serial # 81610



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

Tested By: Dorene McLennan

Approved By: Bobby Fink

Test Pressure
10000 PSI

Time Held at Test Pressure
6 1/4 Minutes

Actual Burst Pressure

Peak Pressure
10195 PSI

MIDWEST
HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT			
Customer: LATSHAW DRILLING		P.O. Number: RIG#4	
HOSE SPECIFICATIONS			
Type: CHOKER LINE		Length: 30'	
I.D. 3" INCHES		O.D. 6" INCHES	
WORKING PRESSURE 5,000 PSI	TEST PRESSURE 10,000 PSI	BURST PRESSURE PSI	
COUPLINGS			
Type of End Fitting 4 1/16 5K FLANGE			
Type of Coupling: SWEDGED		MANUFACTURED BY MIDWEST HOSE & SPECIALTY	
PROCEDURE			
<u>Hose assembly pressure tested with water at ambient temperature.</u>			
TIME HELD AT TEST PRESSURE 1 MIN.		ACTUAL BURST PRESSURE: 0 PSI	
COMMENTS: SO#81610 Hose is covered with stainless steel armour cover and wrapped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes			
Date: 3/2/2011	Tested By: BOBBY FINK		Approved: MENDI JACKSON