

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 July 18, 2013

☐ AMENDED REPORT

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 23 2014

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 305860	4. Property Name Big Eddy Unit	5. API Number 30-015-72461
		6. Well No. 294H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
L	32	21 S	29 E		1980	SOUTH	330	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
I	32	21 S	29 E		1980	SOUTH	330	EAST	EDDY

9. Pool Information

Pool Name US; Bone Spring	Pool Code 97077
------------------------------	--------------------

Additional Well Information

11. Work Type New Well	12. Well Type Oil	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3,371'
16. Multiple N	17. Proposed Depth 13,162'	18. Formation 2 nd Bone Spring Sand	19. Contractor	20. Spud Date 08/01/2014
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	635'	610	Surface
1 st Int.	12-1/4"	9-5/8"	40	3,777'	920	Surface
2 nd Int.	8-3/4"	7"	26	9,028'	540	3,277' (MD)
Prod.	6-1/8"	4-1/2"	11.6	13,162'	300	8,978' (MD)

Casing/Cement Program: Additional Comments

--

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: *Whitney McKee*

Printed name: Whitney McKee

Title: Engineering Assistant

E-mail Address: wbmckee@basspet.com

Date: 06/20/2014

Phone: (432)683-2277

OIL CONSERVATION DIVISION

Approved By:

T.C. Shepard

Title:

"Geologist"

Approved Date:

6-24-2014

Expiration Date: 6-24-2016

Conditions of Approval Attached

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)740-0720

DISTRICT III

1000 Rio Brazos, Aztec, NM 87410
Phone:(505)334-6178 Fax:(505)334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone:(505)176-3460 Fax:(505)176-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Submit one copy to appropriate District Office

JUN 23 2014

RECEIVED☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-015-42461		Pool Code 97077	Pool Name US; Bone Spring
Property Code 305860	Property Name BIG EDDY UNIT		Well Number #294H
OGRID No. 260737	Operator Name BOPCO, L.P.		Elevation 3371'

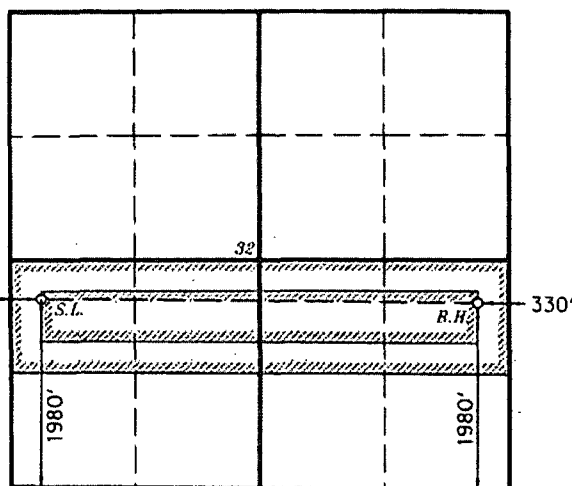
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	32	21 S	29 E		1980'	SOUTH	330	WEST	EDDY

Bottom Hole 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
I	32	21 S	29 E		1980'	SOUTH	330	EAST	EDDY
Dedicated Acres 160	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

**SURFACE LOCATION**

Lat - N 32°26'04.64"
Long - W 104°00'49.26"
NADSPCE- N 521976.8
E 598619.7
(NAD-27)

SCALE 1"=3000'

PROPOSED BOTTOM HOLE LOCATION

Lat - N 32°26'04.18"
Long - W 103°59'55.36"
NADSPCE- N 521945.1
E 603239.6
(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 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 6/20/14
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.

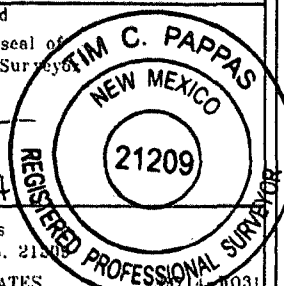
JUNE 02, 2014

Date Surveyed

Signature & seal of
Professional Surveyor

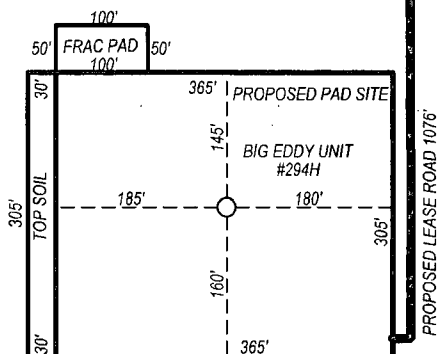
Tim C. Pappas
20
JUNE 14

Tim C. Pappas
Certificate No. 21209
HALFF ASSOCIATES



SECTION 32, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, WELL PAD LAYOUT NEW MEXICO

Lat - N 32°26'04.64"
Long - W 104°00'49.26"



Directions to Location:

FROM THE JUNCTION OF HOBBS HIGHWAY WITH
POTASH MINES ROAD TURN SOUTHEAST 6.0 MILES TO
JUNCTION OF POTASH MINES ROAD WITH A GRAVEL
ROAD, CONTINUE 4.8 MILES WEST ALONG GRAVEL
ROAD TO EXISTING PAD SITE, PROPOSED PAD SITE
0.3 MILES WEST FROM EXISTING PAD SITE



HALFF ASSOCIATES, INC.
ENGINEERS ~ SURVEYORS
1201 NORTH BOWSER ROAD
RICHARDSON, TEXAS ~ 75081-2275
PHONE: (214) 346-6200
FAX: (214) 739-0095

BOPCO, L.P.

REF: PLU BIG EDDY UNIT #294H / WELL PAD TOPO

THE PLU BIG EDDY UNIT #294H 1980'

FROM THE SOUTH LINE AND 330' FROM THE WEST LINE OF

SECTION 32, TOWNSHIP 21 SOUTH, RANGE 29 EAST.

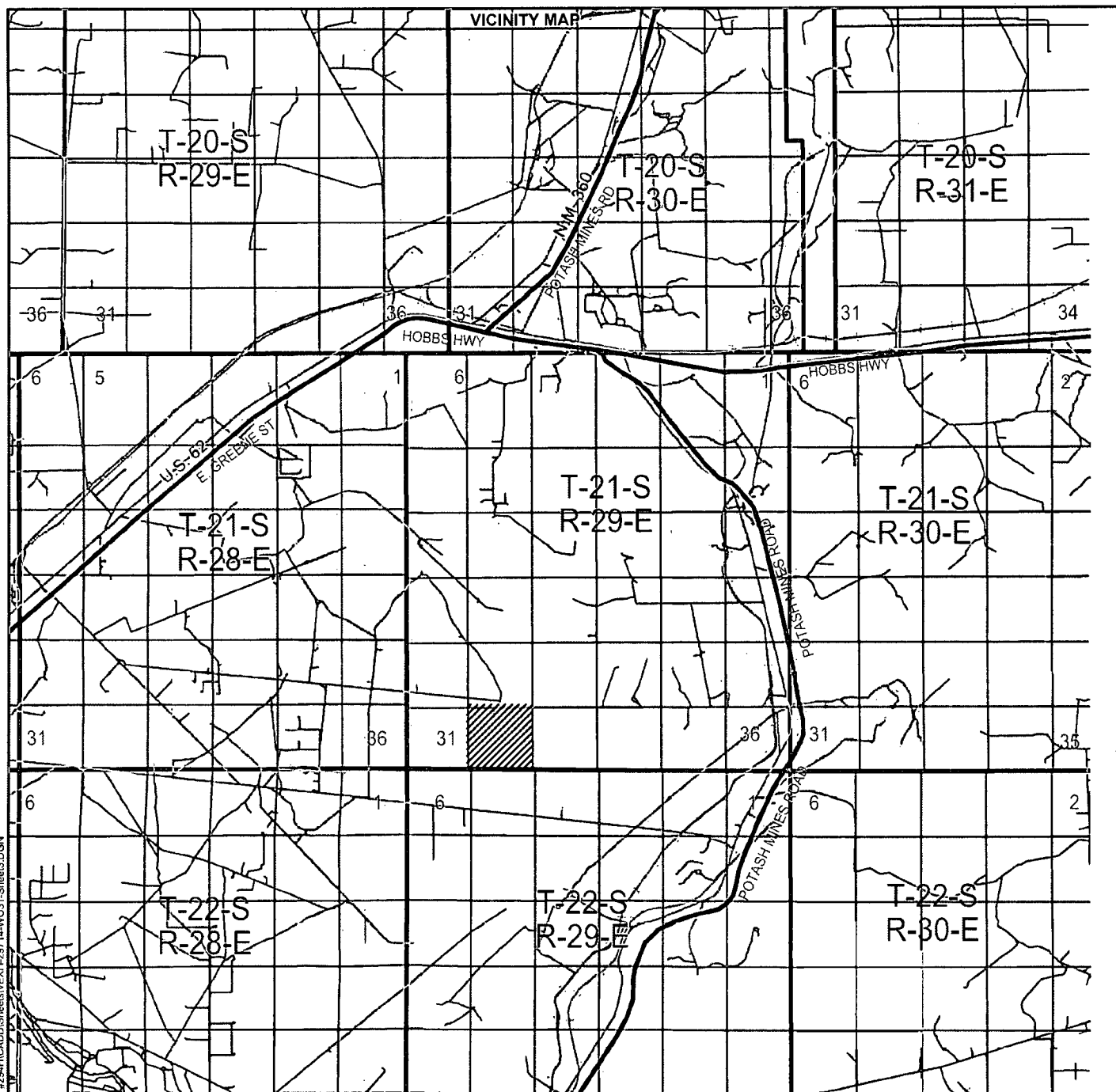
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Drawn By: RG

Checked By: TP

Survey Date: 06-02-2014

Sheet 1 of 7 Sheets



BIG EDDY UNIT #294H

Located 1980' FSL, 330' FWL

Section 32, Township 21 South, Range 29 East
N.M.P.M., Eddy County, New Mexico.



HALFF ASSOCIATES, INC.
ENGINEERS - SURVEYORS
1201 NORTH BOWSER ROAD
RICHARDSON, TEXAS - 75081-2275
PHONE: (214) 346-6200
FAX: (214) 739-0095

AVO. 29714-W031

Survey Date: 06-03-2014

Scale: 1" = 2 MILES

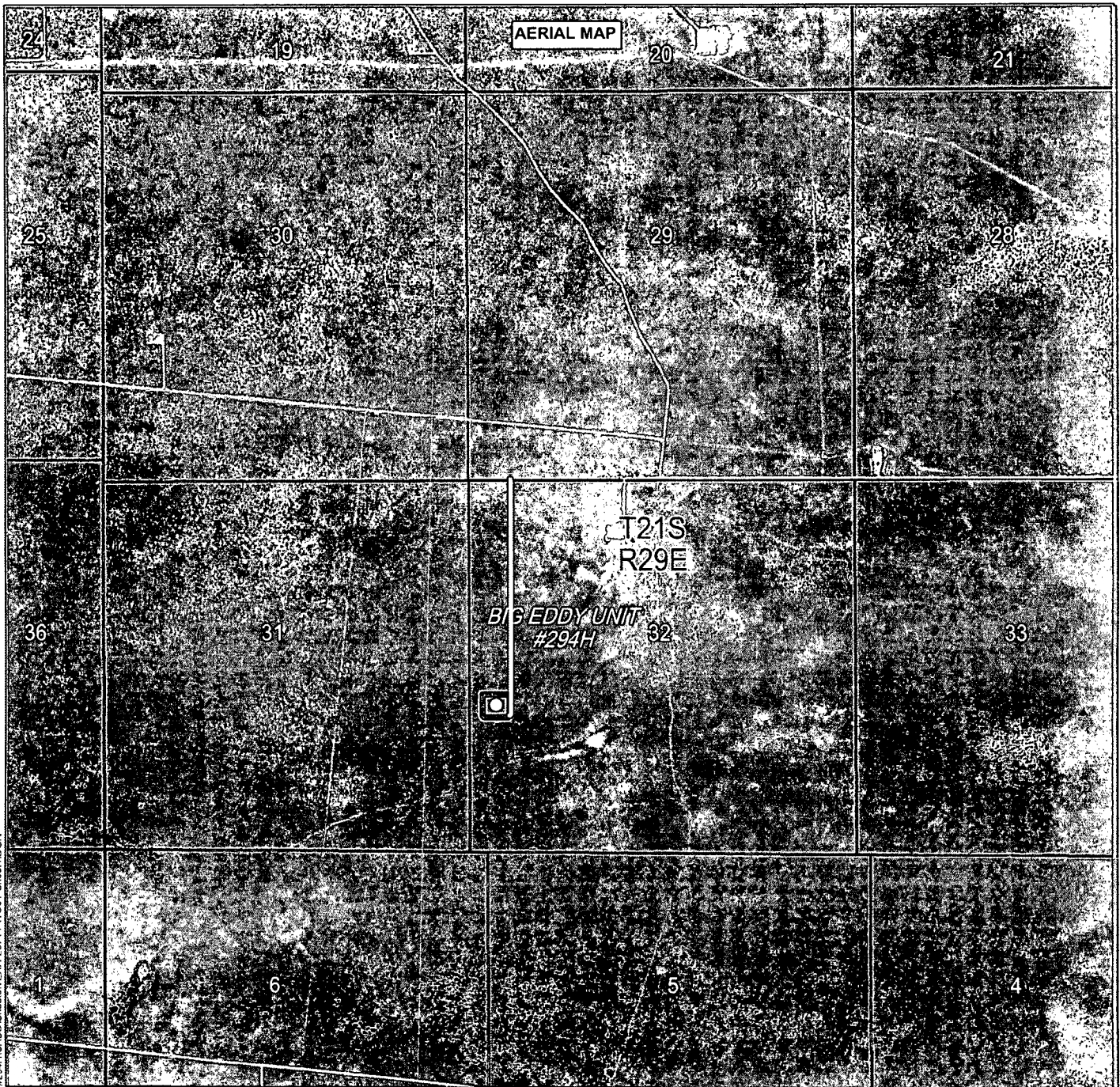
Date: 6/5/2014



BOPCO, L.P.

Sheet 3 of 7 Sheets

6/5/2014 12:32:05 PM ah2705 HALFF I:\23000a\29714\W031 BEU #294H\CADD\Sheets\VE\29714-W031-Sheet3.DGN



BIG EDDY UNIT #294H

Located 1980' FSL, 330' FWL

Section 32, Township 21 South, Range 29 East
N.M.P.M., Eddy County, New Mexico.



HALFF

HALFF ASSOCIATES, INC.
ENGINEERS - SURVEYORS
1201 NORTH BOWSER ROAD
RICHARDSON, TEXAS - 75081-2275
PHONE: (214) 346-6200
FAX: (214) 739-0095

AVO. 29714-W031

Survey Date: 06-03-2014

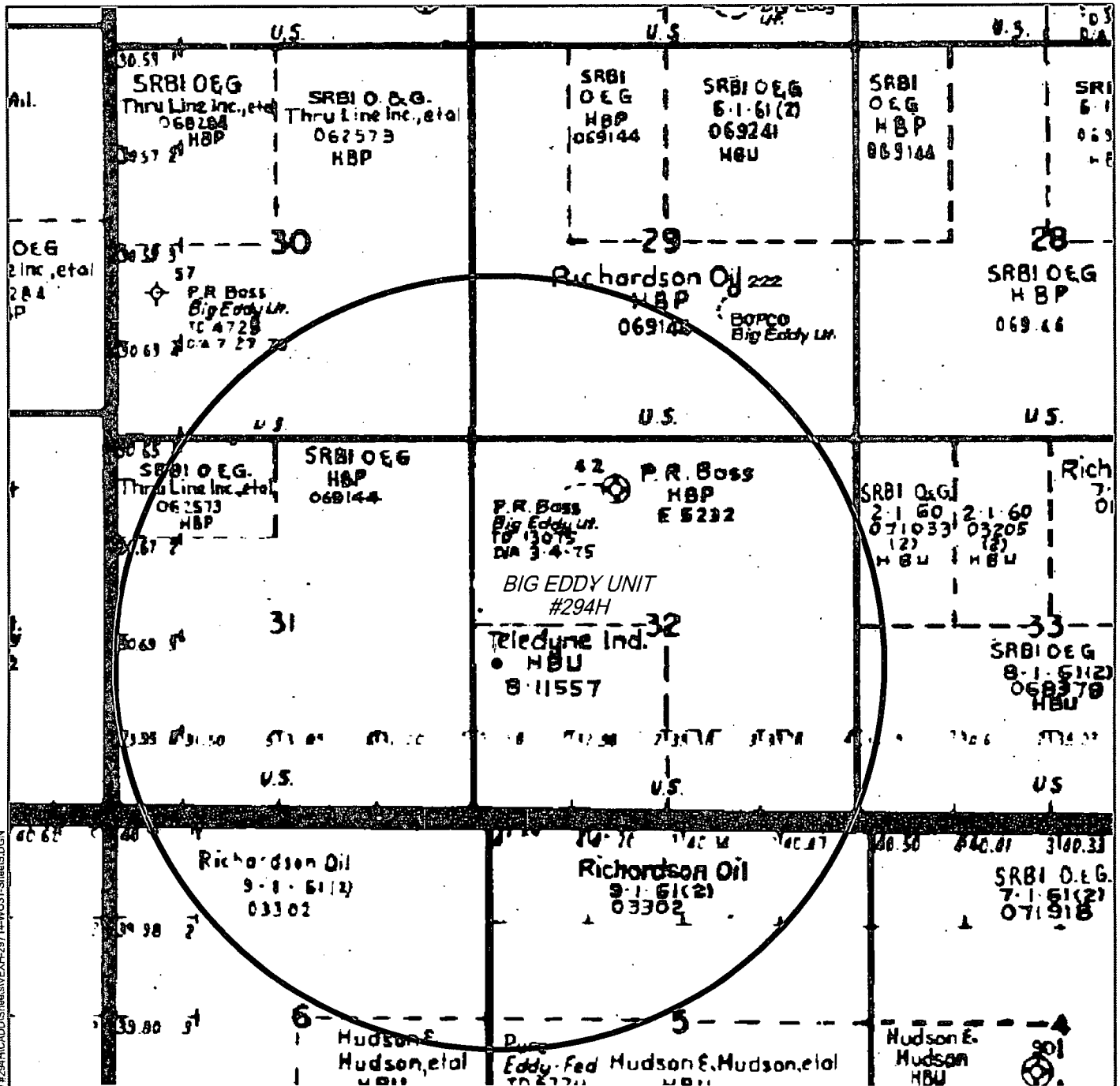
Scale: 1"=2000'

Date: 6/5/2014



BOPCO, L.P.

Sheet 4 of 7 Sheets



PLU BIG EDDY UNIT #294H (SURFACE HOLE MAP)

Located 1980' FSL, 330' FWL

Section 32, Township 21 South, Range 29 East
N.M.P.M., Eddy County, New Mexico.



HALFF

HALFF ASSOCIATES, INC.
ENGINEERS - SURVEYORS
1201 NORTH BOWSER ROAD
RICHARDSON, TEXAS - 75081-2275
PHONE: (214) 346-6200
FAX: (214) 739-0095

AVO. 29714-W031

Scale: 1"=2000'

Survey Date: 06-02-2014
Date: 6/5/2014

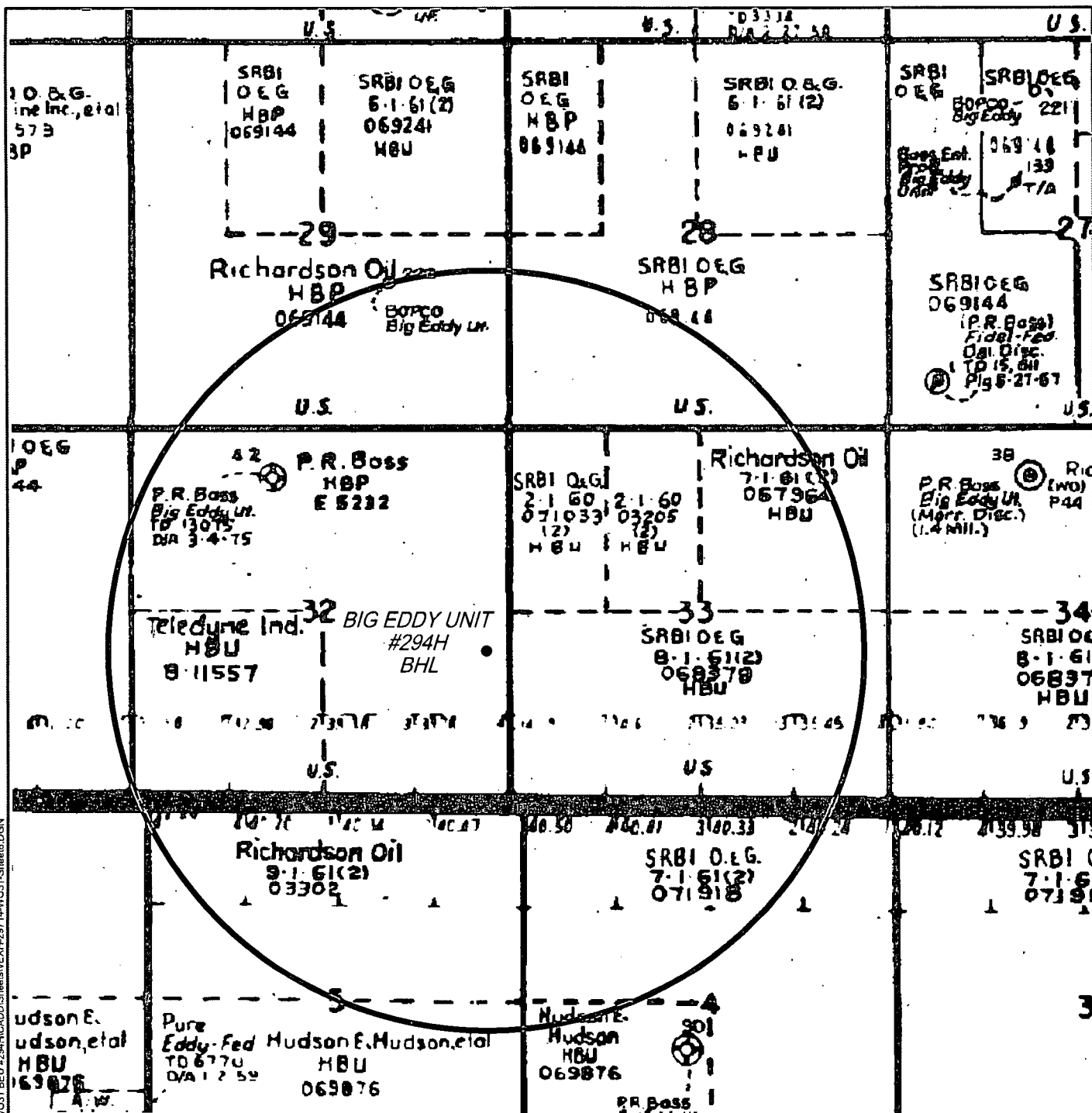
YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



BOPCO, L.P.

Sheet 5 of 7 Sheets

B6/2014 11:38:44 AM a12708 HALFF I:\25000s\29714\W031 BEU #294H\CAD\Drawings\EXH-29714-W031-Sheet6.DGN



PLU BIG EDDY UNIT #294H (BOTTOM HOLE MAP)
 Located 1980' FSL, 330' FEL
 Section 32, Township 21 South, Range 29 East
 N.M.P.M., Eddy County, New Mexico.



HALFF

HALFF ASSOCIATES, INC.
 ENGINEERS - SURVEYORS
 1201 NORTH BOWSER ROAD
 RICHARDSON, TEXAS - 75081-2275
 PHONE: (214) 346-6200
 FAX: (214) 739-0095

AVO. 29714-W031

Scale: 1"=2000'

Survey Date: 06-03-2014
 Date: 6/5/2014

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



BOPCO, L.P.

Sheet 6 of 7 Sheets

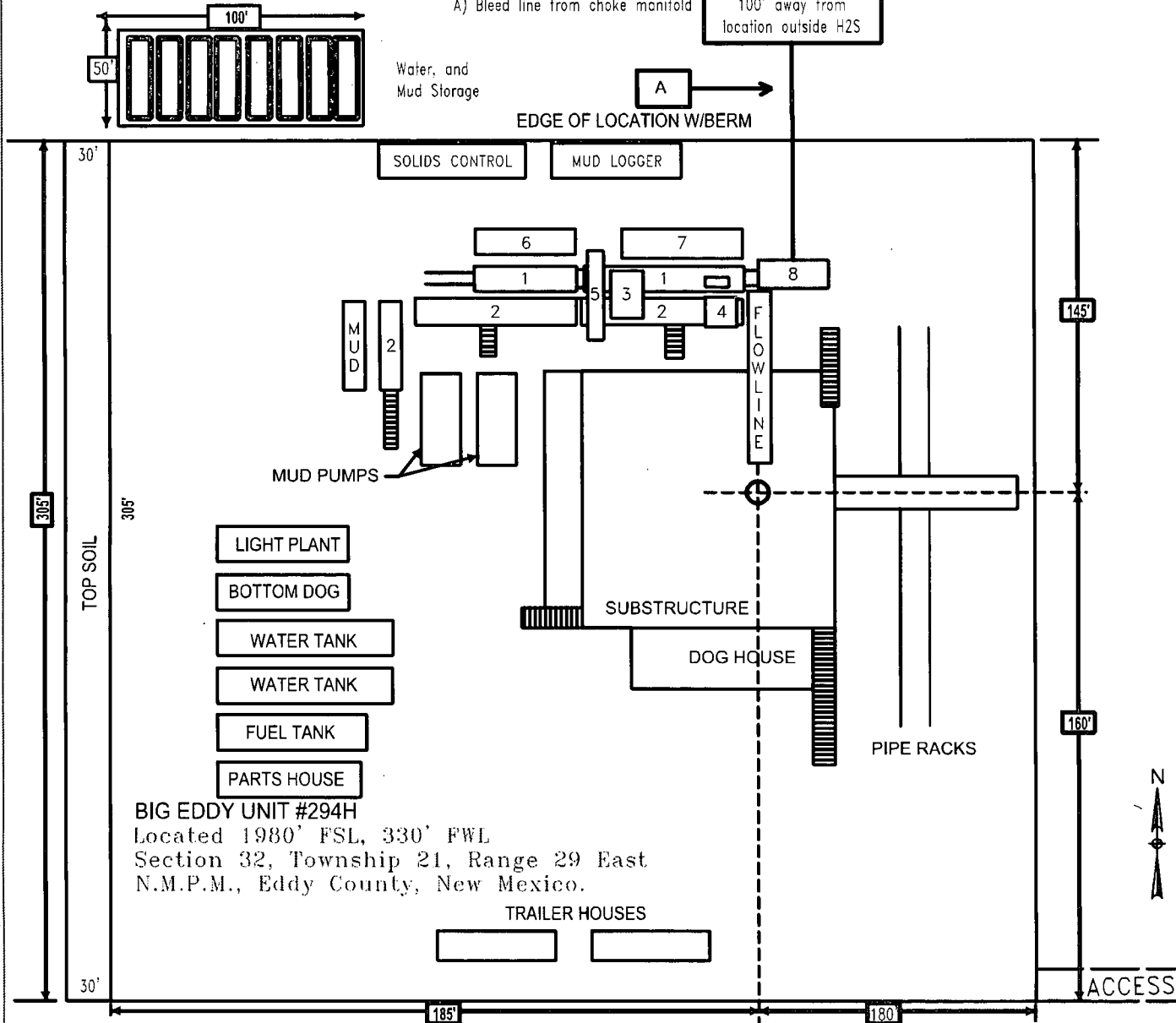
Exhibit "D"

RIG LAYOUT
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



BIG EDDY UNIT #294H
Located 1980' FSL, 330' FWL
Section 32, Township 21, Range 29 East
N.M.P.M., Eddy County, New Mexico.



HALFF ASSOCIATES, INC.
ENGINEERS ~ SURVEYORS
1201 NORTH BOWSER ROAD
RICHARDSON, TEXAS ~ 75081-2275
PHONE: (214) 346-6200
FAX (214) 739-0095

AVO. 29714-W031

Survey Date: 06-02-2014

NOT TO SCALE

Date: 6/5/2014



BOPCO, L.P.

Sheet 7 of 7 Sheets



Planned Wellpath Report

Prelim Plan A
Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	Big Eddy Unit #294H (Unknown Rig)
Area	Eddy County, NM	Well	SL 1980 FSL, 330 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	Big Eddy Unit #294H Planned
Facility	Big Eddy Unit #294H Sec. 32-21S-29E		

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	0.99992	Report Generated	6/18/2014 at 4:05:52 PM
Convergence at slot	0.17° East	Database/Source file	WA_MIDLAND/C:\Users\burnranj\AppData\Roaming\Well Explorer\temp\BOPCO, LP Big Eddy Unit #294H (Unknown Rig) (Plan A).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	598619.70	521976.80	32°26'04.638"N	104°00'49.261"W
Facility Reference Pt			598619.70	521976.80	32°26'04.638"N	104°00'49.261"W
Field Reference Pt			510280.10	534700.83	32°28'12.000"N	104°18'00.000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	(Unknown Rig) (RKB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	(Unknown Rig) (RKB) to Mean Sea Level	3393.00ft
Vertical Reference Pt	(Unknown Rig) (RKB)	(Unknown Rig) (RKB) to Mud Line at Slot (Big Eddy Unit #294H (Unknown Rig))	22.00ft
MD Reference Pt	(Unknown Rig) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	90.39°



Planned Wellpath Report

Prelim Plan A

Page n of nn



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	Big Eddy Unit #294H (Unknown Rig)
Area	Eddy County, NM	Well	SL 1980 FSL, 330 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	Big Eddy Unit #294H Planned
Facility	Big Eddy Unit #294H Sec. 32-21S-29E		

WELLPATH DATA (67 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	90.393	0.00	0.00	0.00	0.00	0.00	
22.00	0.000	90.393	22.00	0.00	0.00	0.00	0.00	SL 1980 FSL, 330 FWL
130.00†	0.000	90.393	130.00	0.00	0.00	0.00	0.00	† Fresh Water - 130 TVD
362.00†	0.000	90.393	362.00	0.00	0.00	0.00	0.00	Rustler - 362 TVD
643.00†	0.000	90.393	643.00	0.00	0.00	0.00	0.00	Salado - 643 TVD
3723.00†	0.000	90.393	3723.00	0.00	0.00	0.00	0.00	Dmg - 3723 TVD
3730.00†	0.000	90.393	3730.00	0.00	0.00	0.00	0.00	Bell Canyon - 3730 TVD
4543.00†	0.000	90.393	4543.00	0.00	0.00	0.00	0.00	Cherry Canyon - 4543 TVD
5218.00†	0.000	90.393	5218.00	0.00	0.00	0.00	0.00	Brushy Canyon - 5218 TVD
6743.00†	0.000	90.393	6743.00	0.00	0.00	0.00	0.00	Bone Spring Lime - 6743 TVD
7743.00†	0.000	90.393	7743.00	0.00	0.00	0.00	0.00	1st Bone Spring Sand - 7743 TVD
8256.40	0.000	90.393	8256.40	0.00	0.00	0.00	0.00	Est KOP
8300.00†	5.232	90.393	8299.94	1.99	-0.01	1.99	12.00	
8400.00†	17.232	90.393	8397.84	21.43	-0.15	21.43	12.00	
8500.00†	29.232	90.393	8489.57	60.81	-0.42	60.80	12.00	
8600.00†	41.232	90.393	8571.10	118.39	-0.81	118.39	12.00	
8629.96†	44.827	90.393	8593.00	138.83	-0.95	138.83	12.00	2nd Bone Spring Sand - 8593 TVD
8700.00†	53.232	90.393	8638.88	191.67	-1.32	191.66	12.00	
8800.00†	65.232	90.393	8689.94	277.43	-1.90	277.43	12.00	
8839.73	70.000	90.393	8705.07	314.16	-2.16	314.15	12.00	EOB @ 70° INC
8900.00†	70.000	90.393	8725.68	370.79	-2.54	370.79	0.00	
9000.00†	70.000	90.393	8759.88	464.76	-3.19	464.75	0.00	
9039.73	70.000	90.393	8773.47	502.10	-3.45	502.09	0.00	EOH @ 200° CL
9100.00†	76.027	90.393	8791.07	559.71	-3.84	559.70	10.00	
9200.00†	86.027	90.393	8806.65	658.36	-4.52	658.35	10.00	
9239.73	90.000	90.393	8808.03	698.06	-4.79	698.05	10.00	LP 90° INC @ 8808' TVD
9298.58	88.823	90.393	8808.63	756.90	-5.19	756.89	2.00	EOD @ 88.823° INC
9300.00†	88.823	90.393	8808.66	758.33	-5.20	758.31	0.00	
9400.00†	88.823	90.393	8810.72	858.31	-5.89	858.28	0.00	
9500.00†	88.823	90.393	8812.77	958.28	-6.58	958.26	0.00	
9600.00†	88.823	90.393	8814.82	1058.26	-7.26	1058.24	0.00	
9700.00†	88.823	90.393	8816.88	1158.24	-7.95	1158.21	0.00	
9800.00†	88.823	90.393	8818.93	1258.22	-8.63	1258.19	0.00	
9900.00†	88.823	90.393	8820.98	1358.20	-9.32	1358.17	0.00	
10000.00†	88.823	90.393	8823.04	1458.18	-10.01	1458.14	0.00	
10100.00†	88.823	90.393	8825.09	1558.16	-10.69	1558.12	0.00	
10200.00†	88.823	90.393	8827.15	1658.14	-11.38	1658.10	0.00	
10300.00†	88.823	90.393	8829.20	1758.12	-12.06	1758.07	0.00	
10400.00†	88.823	90.393	8831.25	1858.09	-12.75	1858.05	0.00	
10500.00†	88.823	90.393	8833.31	1958.07	-13.44	1958.03	0.00	
10600.00†	88.823	90.393	8835.36	2058.05	-14.12	2058.00	0.00	
10700.00†	88.823	90.393	8837.42	2158.03	-14.81	2157.98	0.00	
10800.00†	88.823	90.393	8839.47	2258.01	-15.49	2257.96	0.00	
10900.00†	88.823	90.393	8841.52	2357.99	-16.18	2357.93	0.00	
11000.00†	88.823	90.393	8843.58	2457.97	-16.87	2457.91	0.00	



Planned Wellpath Report

Prelim Plan A

Page n of nn



REFERENCE WELLPATH IDENTIFICATION

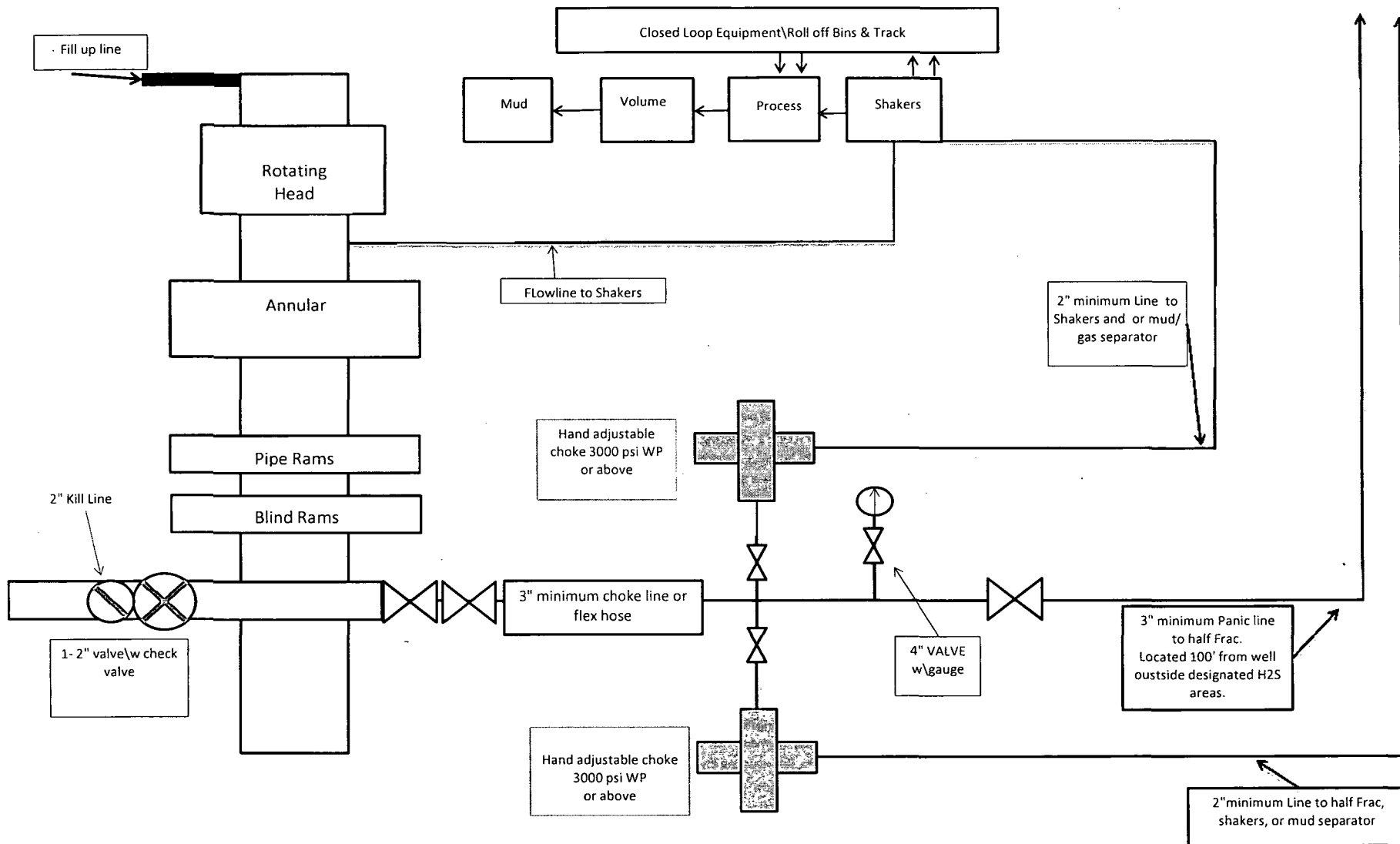
Operator	BOPCO, LP	Slot	Big Eddy Unit #294H (Unknown Rig)
Area	Eddy County, NM	Well	SL 1980 FSL, 330 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	Big Eddy Unit #294H Planned
Facility	Big Eddy Unit #294H Sec. 32-21S-29E		

WELLPATH DATA (67 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
11100.00†	88.823	90.393	8845.63	2557.95	-17.55	2557.89	0.00	
11200.00†	88.823	90.393	8847.68	2657.93	-18.24	2657.86	0.00	
11300.00†	88.823	90.393	8849.74	2757.90	-18.92	2757.84	0.00	
11400.00†	88.823	90.393	8851.79	2857.88	-19.61	2857.82	0.00	
11500.00†	88.823	90.393	8853.85	2957.86	-20.30	2957.79	0.00	
11600.00†	88.823	90.393	8855.90	3057.84	-20.98	3057.77	0.00	
11700.00†	88.823	90.393	8857.95	3157.82	-21.67	3157.75	0.00	
11800.00†	88.823	90.393	8860.01	3257.80	-22.35	3257.72	0.00	
11900.00†	88.823	90.393	8862.06	3357.78	-23.04	3357.70	0.00	
12000.00†	88.823	90.393	8864.12	3457.76	-23.73	3457.68	0.00	
12100.00†	88.823	90.393	8866.17	3557.74	-24.41	3557.65	0.00	
12200.00†	88.823	90.393	8868.22	3657.71	-25.10	3657.63	0.00	
12300.00†	88.823	90.393	8870.28	3757.69	-25.78	3757.60	0.00	
12400.00†	88.823	90.393	8872.33	3857.67	-26.47	3857.58	0.00	
12500.00†	88.823	90.393	8874.39	3957.65	-27.16	3957.56	0.00	
12600.00†	88.823	90.393	8876.44	4057.63	-27.84	4057.53	0.00	
12700.00†	88.823	90.393	8878.49	4157.61	-28.53	4157.51	0.00	
12800.00†	88.823	90.393	8880.55	4257.59	-29.21	4257.49	0.00	
12900.00†	88.823	90.393	8882.60	4357.57	-29.90	4357.46	0.00	
13000.00†	88.823	90.393	8884.65	4457.55	-30.59	4457.44	0.00	
13100.00†	88.823	90.393	8886.71	4557.52	-31.27	4557.42	0.00	
13162.88	88.823	90.393	8888.00	4620.39	-31.70	4620.28	0.00	BEU #294H PBHL

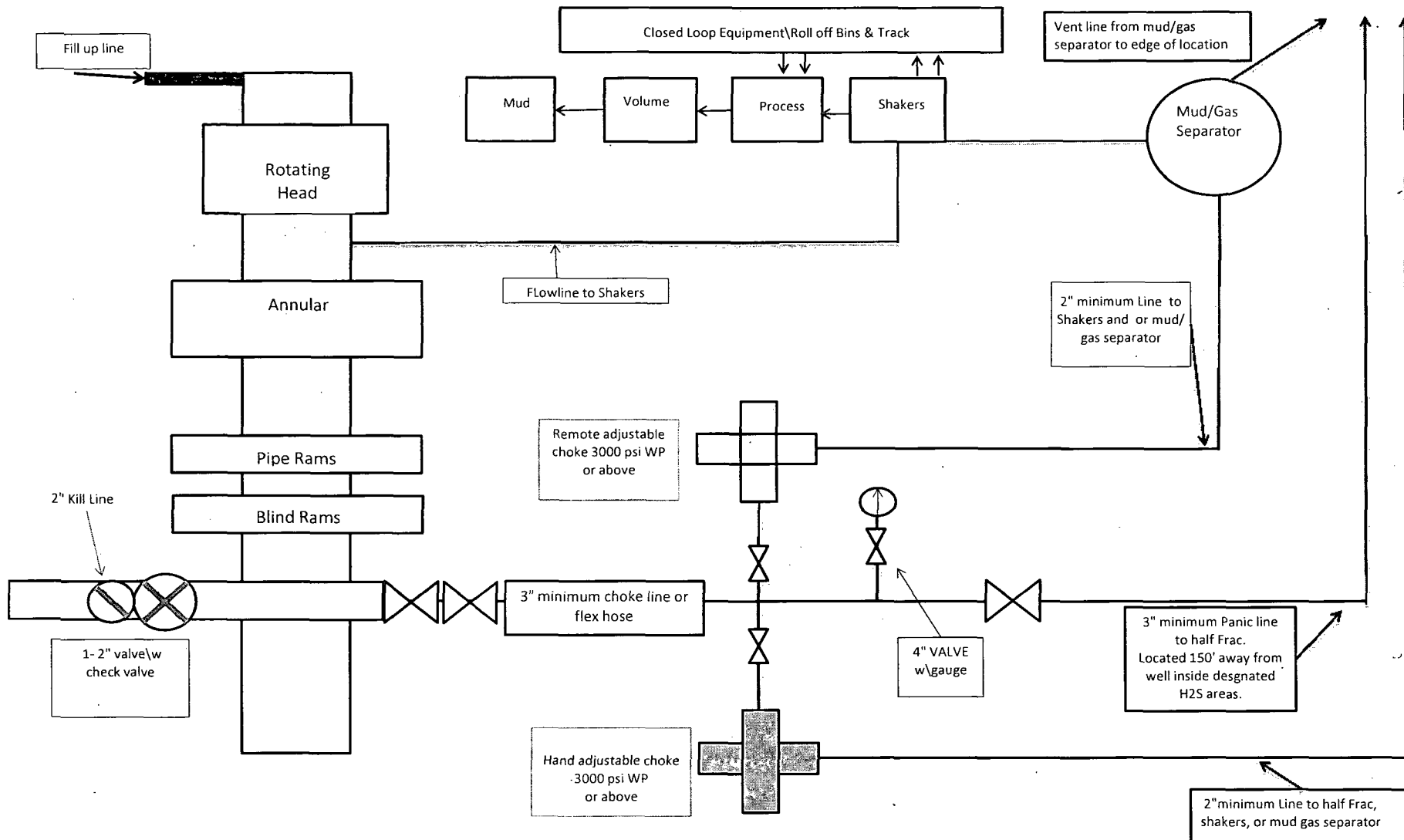
SURVEY PROGRAM - Ref Wellbore: Big Eddy Unit #294H Planned Ref Wellpath: Prelim Plan A

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	13162.88	NaviTrak (Standard)		Big Eddy Unit #294H Planned



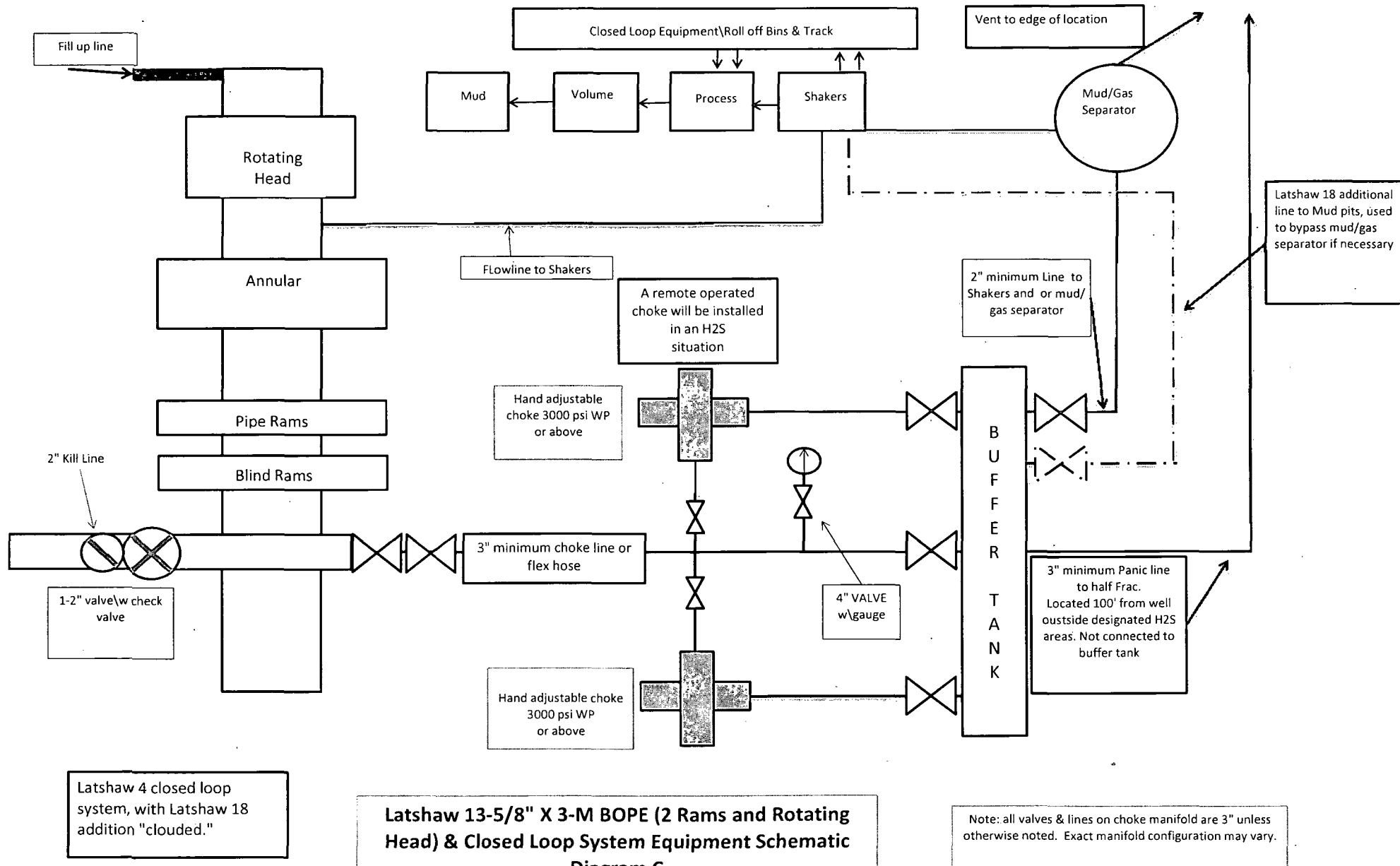
13-5/8" X 3-M BOPE (2 Rams and Rotating Head) & Closed Loop System Equipment Schematic Diagram A

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

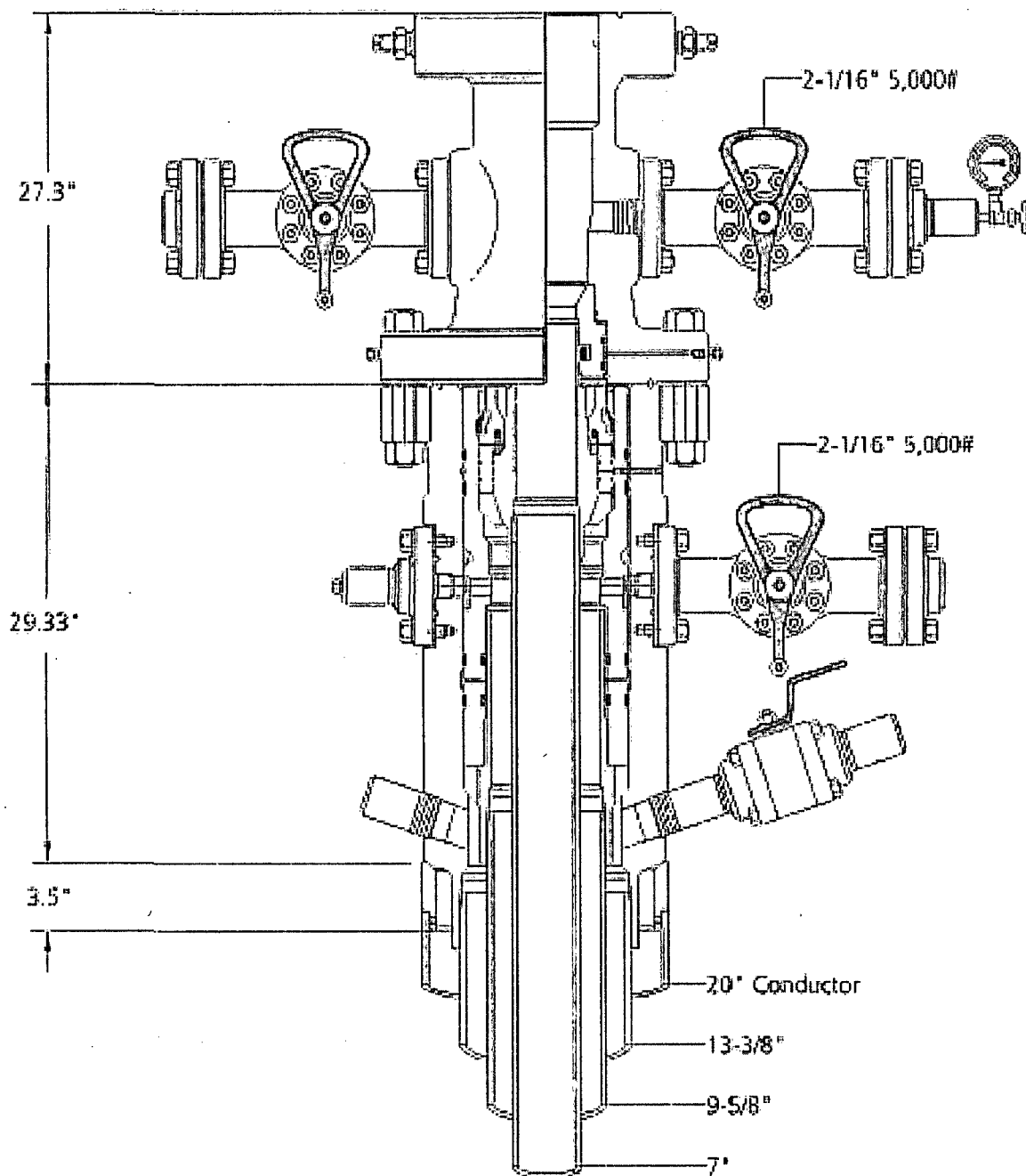
Note: all valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.



Note: Dimensional information reflected on this drawing are estimated measurements only.



Diagram Z



BOPCO
Project: South East New Mexico



Jeanette

7-22-13

Drawing File No.

#

21077904-A



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

April 4, 2012

Customer: Latshaw

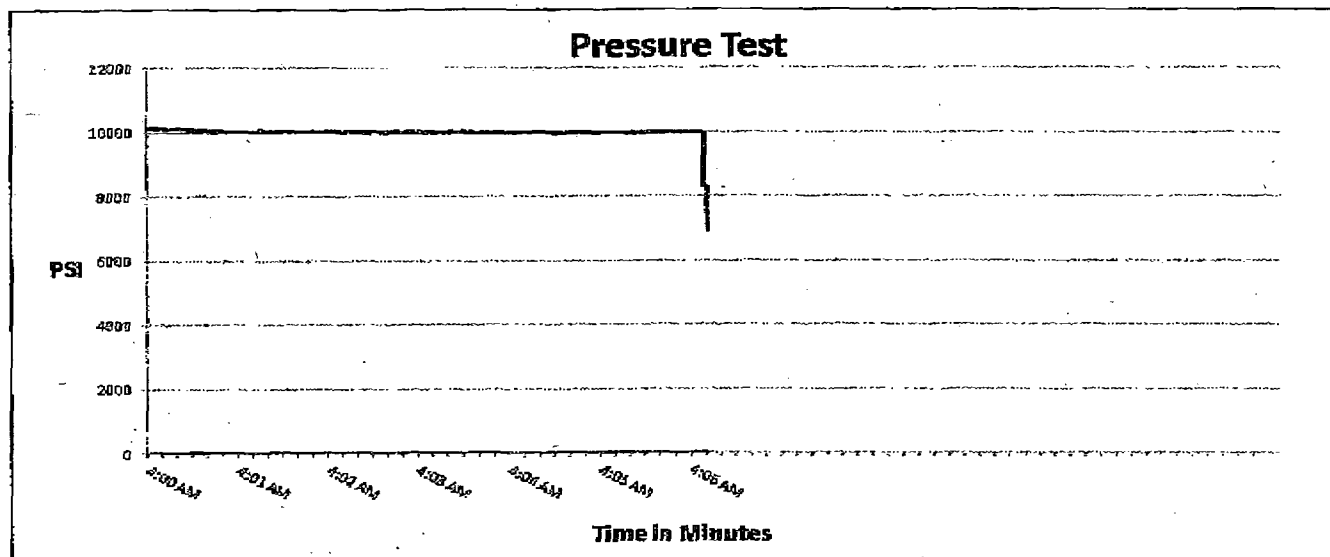
Pick Ticket #: 81610

Hose Specifications

Hose Type	Length
D	30'
I.D.	O.D.
3"	4 15/32
Working Pressure	Burst Pressure
5000 PSI	Standard Safety Multiplier Applies

Verification

Type of Fitting	Coupling Method
41/16 SK	Swage
Die Size	Final O.D.
5.12"	5.16"
Hose Serial #	Hose Assembly Serial #
6884	81610



Test Pressure
10000 PSI

Time Held at Test Pressure
6 1/4 Minutes

Actual Burst Pressure

Peak Pressure
10195 PSI

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

Tested By: Donnie Mclemore

Approved By: Bobby Fink

Donnie Mclemore

Bobby Fink

M I D W E S T
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		
<i>Hose assembly pressure tested with water at ambient temperature.</i>		
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

Permit Conditions of Approval

API: 30-015-42461

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.