

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 RECEIVED DONE

¹ Operator Name and Address BOPCO, L.P. P.O. Box 2760 Midland, TX		² OGRID Number 260737
³ Property Code 305860		⁴ API Number 30-015-72460
⁵ Property Name Big Eddy Unit		⁶ Well No. 286H

7. Surface Location

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

9. Pool Information

⁹ Pool Name US; Bone Spring	¹⁰ Pool Code 97077
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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 3,372'
¹⁶ Multiple N	¹⁷ Proposed Depth 13,159'	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	13,159'	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: <i>Whitney McKee</i> Printed name: Whitney McKee Title: Engineering Assistant E-mail Address: wbmckee@basspet.com Date: 06/20/2014	OIL CONSERVATION DIVISION Approved By: <i>T. C. Shepard</i> Title: "Geologist" Approved Date: <i>6-24-2014</i> Expiration Date: <i>6-24-2016</i> Conditions of Approval Attached
Phone: (432)683-2277	

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575)393-8181 Fax:(575)393-0720

DISTRICT II

811 S. First St., Artesia, NM 88210
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DISTRICT III

1000 Rio Brazos, Aztec, NM 87410
Phone:(505)331-0170 Fax:(505)331-0170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone:(505)476-3160 Fax:(505)476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT☐ AMENDED REPORT

API Number 30-015-42460	Pool Code 97077	Pool Name US; Bone Spring
Property Code 305860	Property Name BIG EDDY UNIT	Well Number #286H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3372'

Surface Location

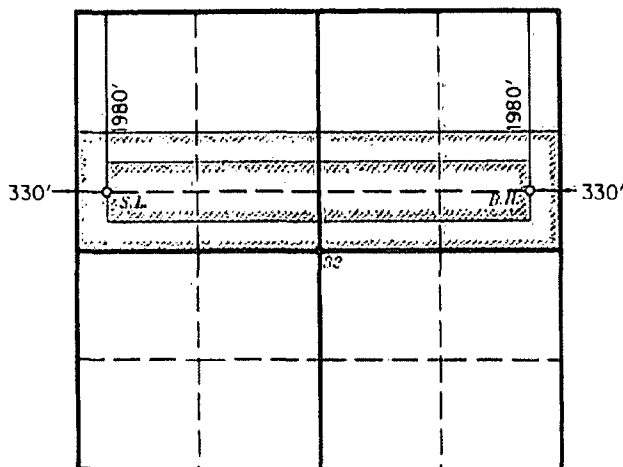
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	32	21 S	29 E		1980'	NORTH	330	WEST	EDDY

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
H	32	21 S	29 E		1980'	NORTH	330	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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°26'15.28"
Long - W 104°00'49.28"
NAD83 - N 523052.9
E 598615.1
(NAD-27)

PROPOSED BOTTOM HOLE LOCATION

Lat - N 32°26'15.25"
Long - W 103°59'55.39"
NAD83 - N 523063.3
E 603235.9
(NAD-27)

SCALE 1" = 3000'

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 undivided 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.

Signature *Whitney McKee* Date 6/20/14

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.

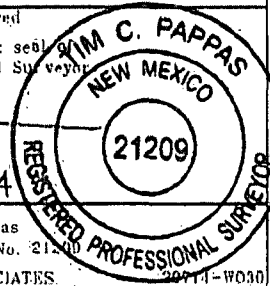
JUNE 02, 2014

Date Surveyed

Signature & seal
Professional Surveyor

20
JUNE 14

Tim C. Pappas
Certificate No. 21209
HALFF ASSOCIATES

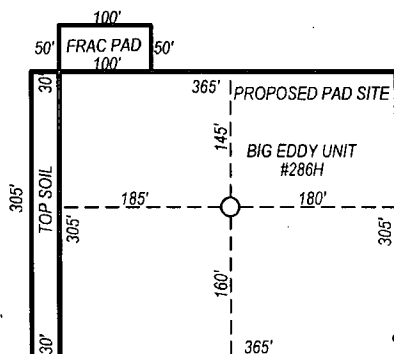


SECTION 32, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, WELL PAD LAYOUT NEW MEXICO

BOPCO, L.P.
BIG EDDY UNIT #286H
ELEV. -3372'

Lat - N 32°26'15.28"
Long - W 104°00'49.28"

NMSPCE- N 523052.9
E 598615.1
(NAD-27)



PROPOSED LEASE ROAD 820'
BIG EDDY UNIT
#286H

PROPOSED LEASE ROAD 1320'

NOTE: WELL IS LOCATED ABOUT 12.6 MILES NORTHEAST OF CARLSBAD, NM

0 100 200 300 400

SCALE: 1"=200'

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 #286H / WELL PAD TOPO

THE PLU BIG EDDY UNIT #286H 1980'

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

SECTION 32, TOWNSHIP 21 SOUTH, RANGE 29 EAST,

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

AVO. 29714-W030

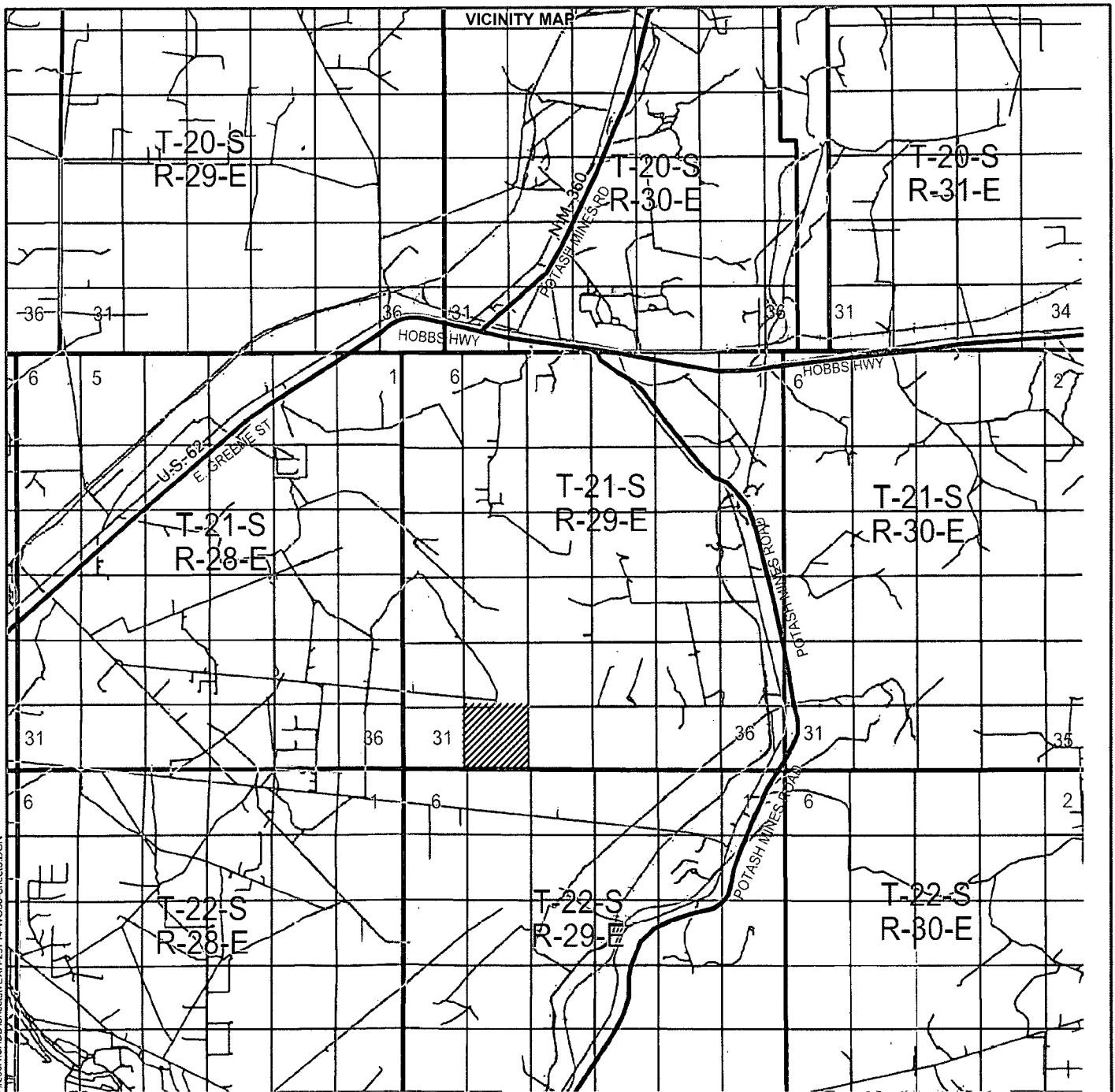
Drawn By: RG

Date: 6/5/2014

Checked By: TP

Survey Date: 06-02-2014

Sheet 1 of 7 Sheets



BIG EDDY UNIT #286H

Located 1980' FNL, 330' FWL

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



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AVO. 29714-W030

Survey Date: 06-03-2014

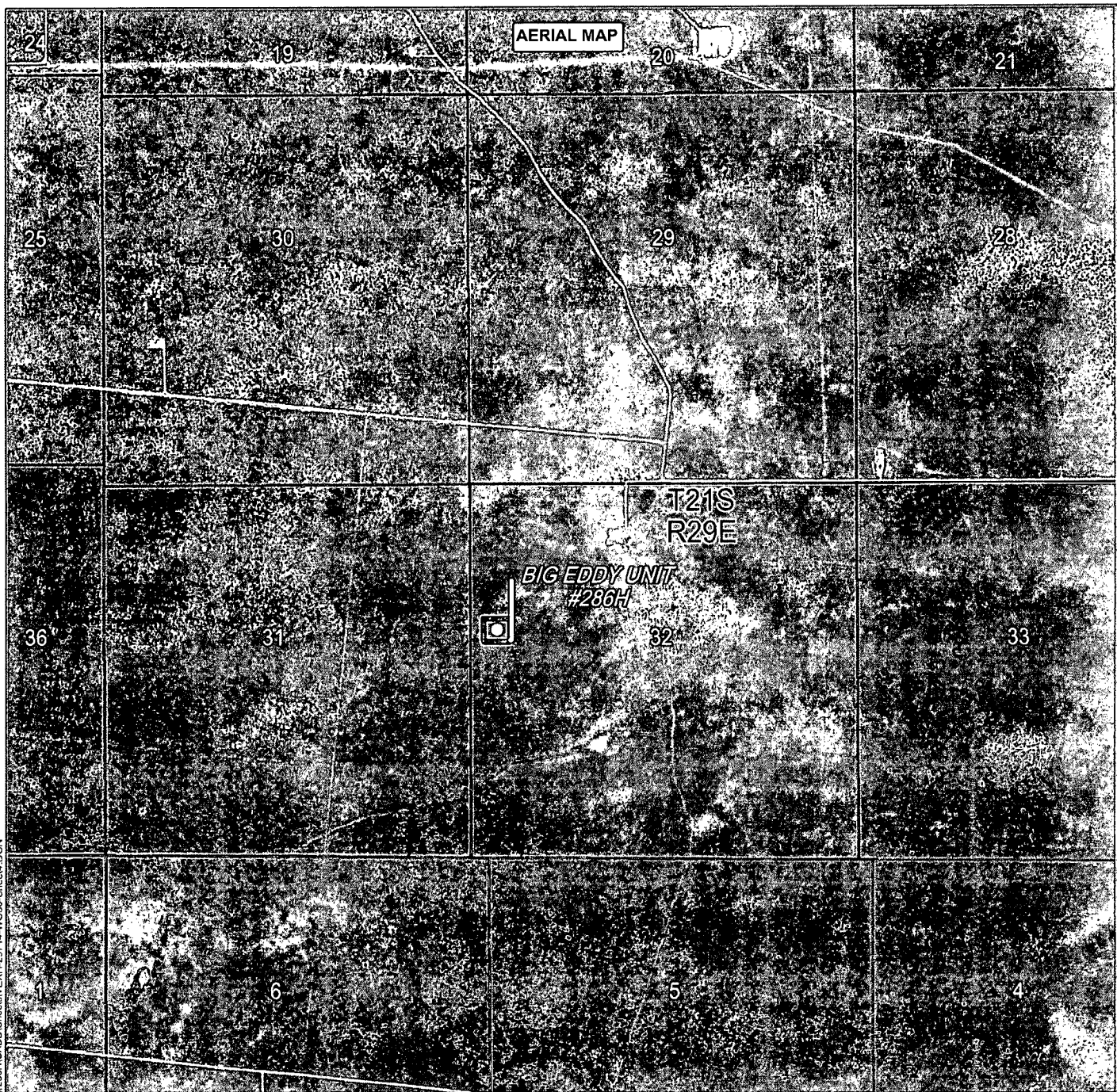
Scale: 1" = 2 MILES

Date: 6/5/2014



BOPCO, L.P.

Sheet 3 of 7 Sheets



BIG EDDY UNIT #286H

Located 1980' FNL, 330' FWL

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



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AVO. 29714-W030

Survey Date: 06-03-2014

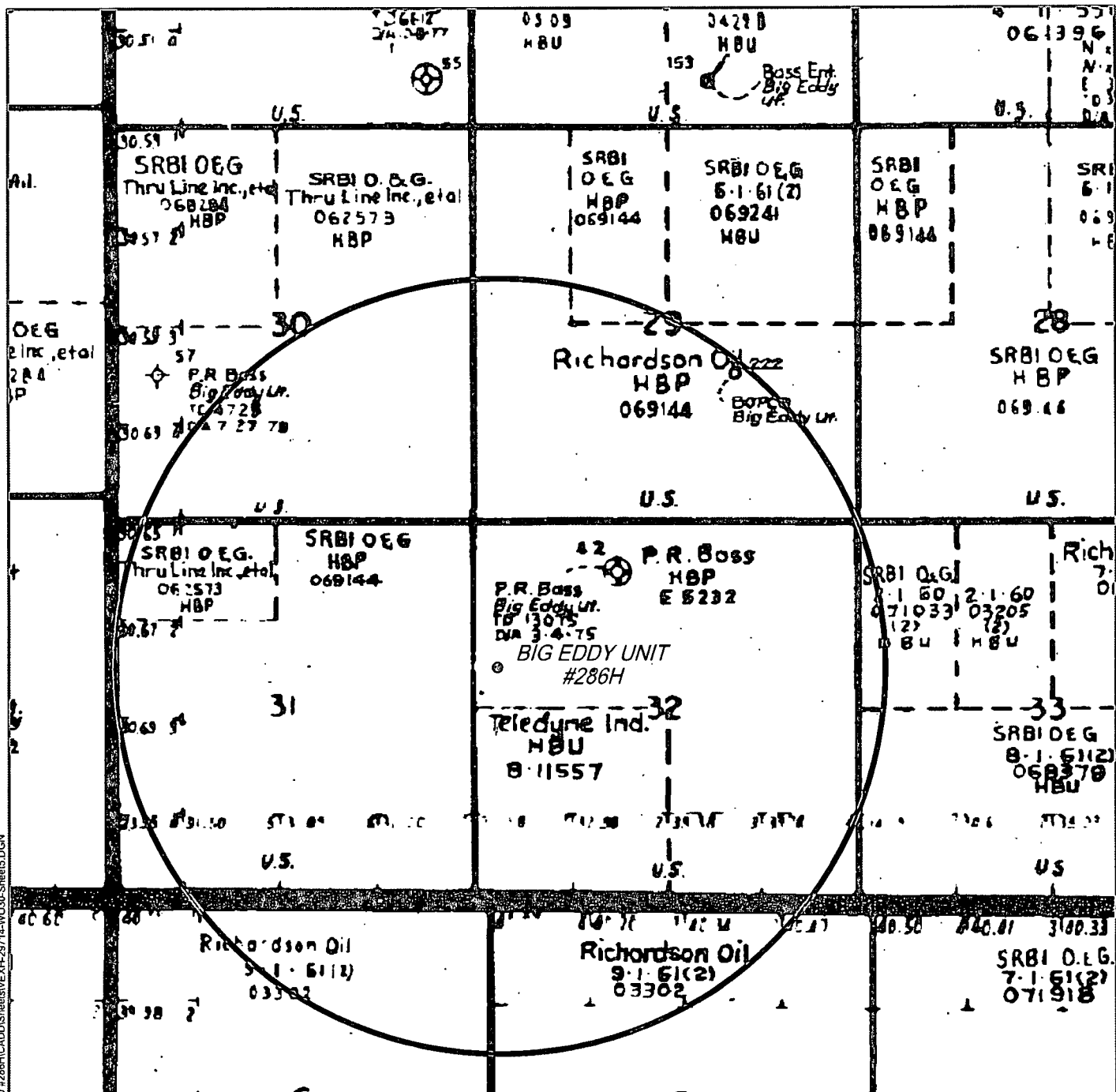
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Date: 6/5/2014



BOPCO, L.P.

Sheet 4 of 7 Sheets



PLU BIG EDDY UNIT #286H (SURFACE HOLE MAP)

Located 1980' FNL, 330' FWL

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



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FAX: (214) 739-0095

AVO. 29714-W030

Scale: 1"=2000'

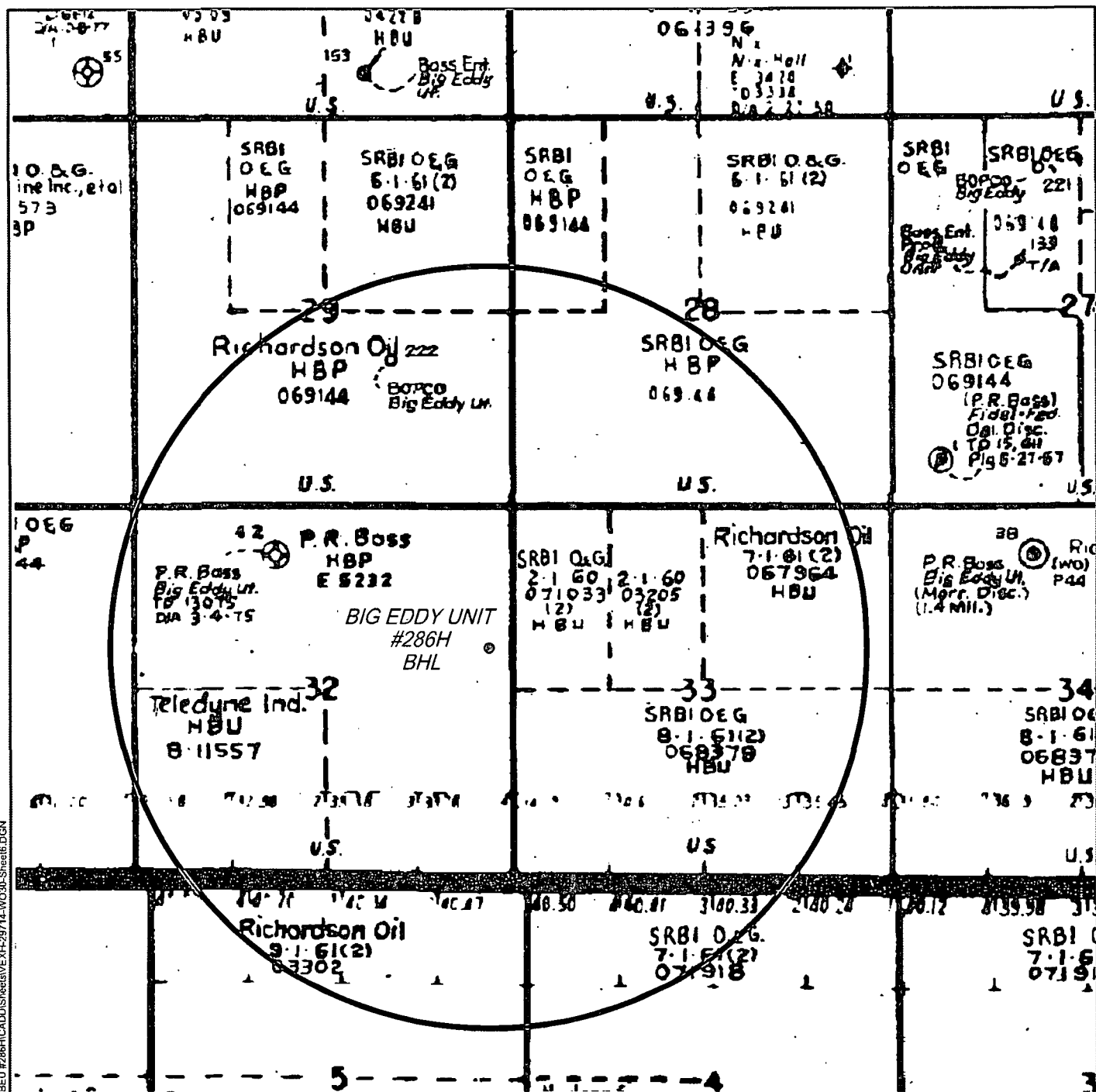
Survey Date: 06-02-2014
Date: 6/5/2014

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



BOPCO, L.P.

Sheet 5 of 7 Sheets



PLU BIG EDDY UNIT #286H (BOTTOM HOLE MAP)

Located 1980' FNL, 330' FEL

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



HALFF ASSOCIATES, INC.
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RICHARDSON, TEXAS ~ 75081-2275
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FAX: (214) 739-0095

AVO. 29714-W029

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

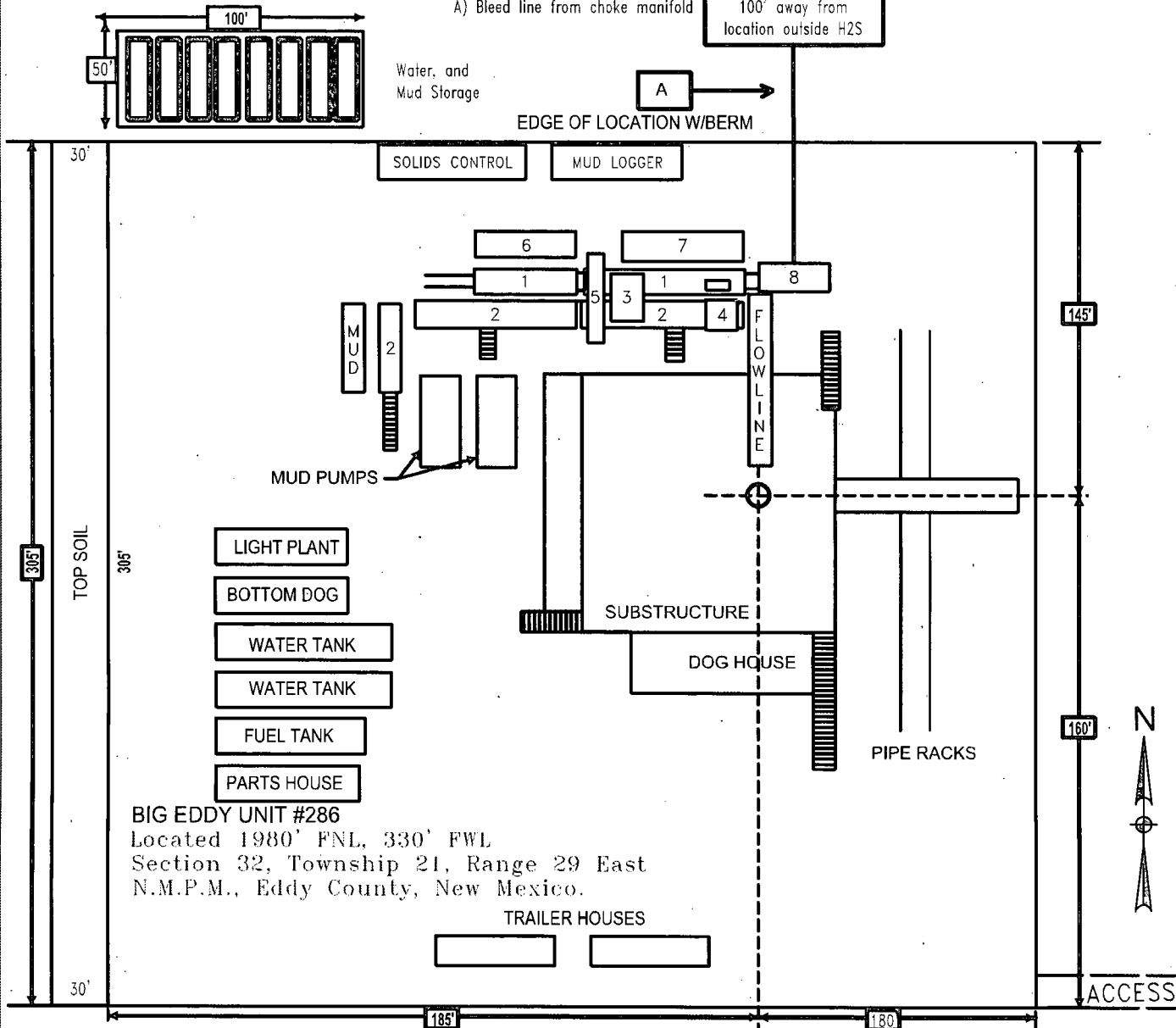
Exhibit "D"

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



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1201 NORTH BOWSER ROAD
RICHARDSON, TEXAS ~ 75081-2275
PHONE: (214) 346-6200
FAX (214) 739-0095

AVO. 29714-W030

Survey Date: 06-02-2014

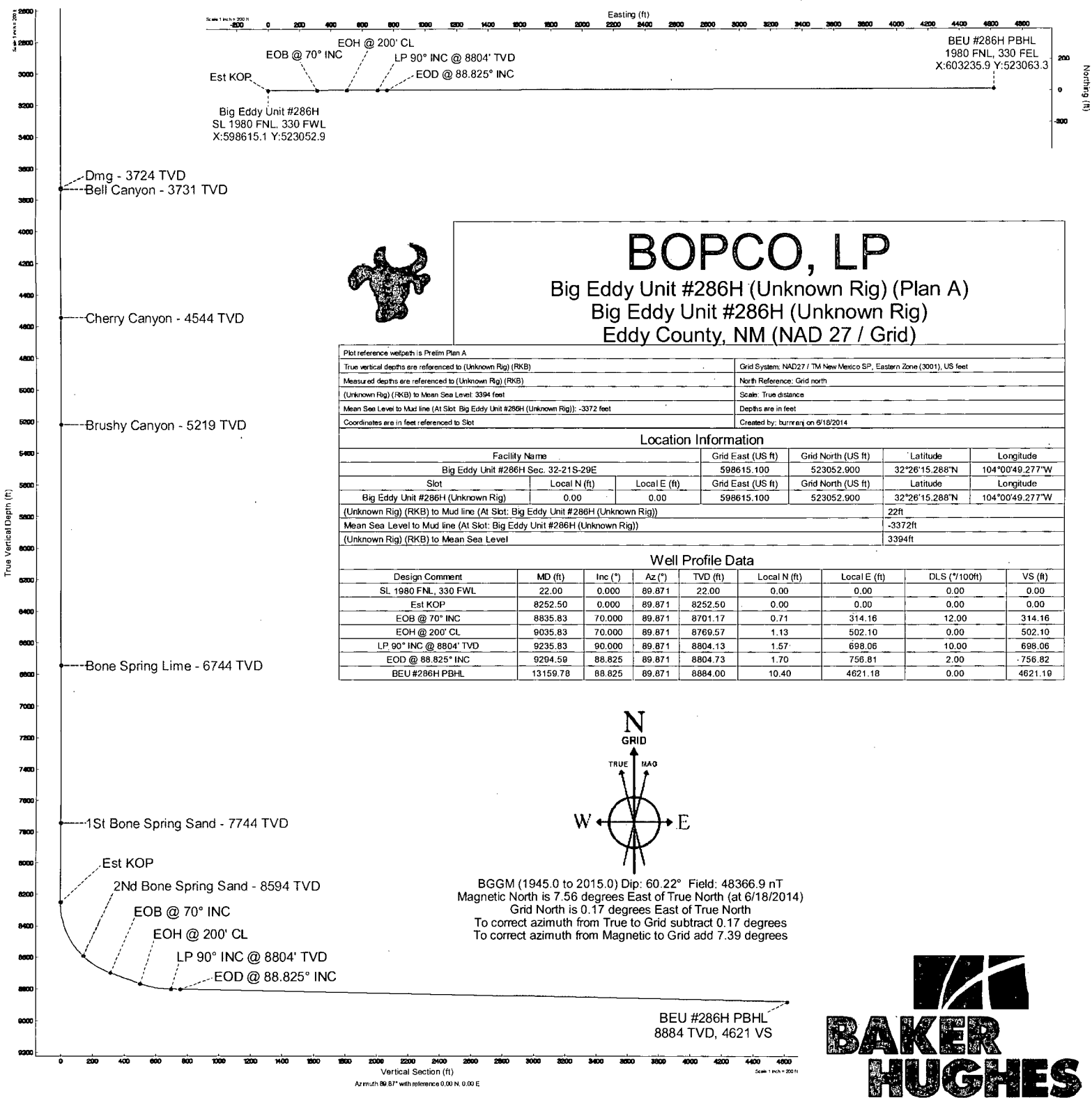
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Date: 6/5/2014



BOPCO, L.P.

Sheet 7 of 7 Sheets

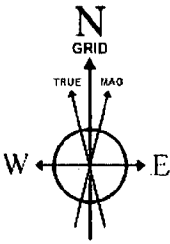




BOPCO, LP

Big Eddy Unit #286H (Unknown Rig) (Plan A)
Big Eddy Unit #286H (Unknown Rig)
Eddy County, NM (NAD 27 / Grid)

Plot reference wellpath is Prelim Plan A				Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet				
True vertical depths are referenced to (Unknown Rig) (RKB)				North Reference: Grid north				
Measured depths are referenced to (Unknown Rig) (RKB)				Scale: True distance				
(Unknown Rig) (RKB) to Mean Sea Level: 3394 feet				Depths are in feet				
Mean Sea Level to Mud line (At Slot: Big Eddy Unit #286H (Unknown Rig)): -3372 feet				Created by: bunnring on 6/18/2014				
Coordinates are in feet referenced to Slot								
Location Information								
Facility Name		Grid East (US ft)		Grid North (US ft)		Latitude		
Big Eddy Unit #286H Sec. 32-21S-29E		598615.100		523052.900		32°26'15.288"N		
Slot		Local N (ft)		Local E (ft)		Longitude		
Big Eddy Unit #286H (Unknown Rig)		0.00		0.00		104°00'49.277"W		
(Unknown Rig) (RKB) to Mud line (At Slot: Big Eddy Unit #286H (Unknown Rig))		598615.100		523052.900		Latitude		
Mean Sea Level to Mud line (At Slot: Big Eddy Unit #286H (Unknown Rig))						Longitude		
(Unknown Rig) (RKB) to Mean Sea Level						32°26'15.288"N		
						104°00'49.277"W		
						22ft		
						-3372ft		
						3394ft		
Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
SL 1980 FNL, 330 FWL	22.00	0.000	89.871	22.00	0.00	0.00	0.00	0.00
Est KOP	8252.50	0.000	89.871	8252.50	0.00	0.00	0.00	0.00
EOB @ 70° INC	8835.83	70.000	89.871	8701.17	0.71	314.16	12.00	314.16
EOH @ 200' CL	9035.83	70.000	89.871	8769.57	1.13	502.10	0.00	502.10
LP 90° INC @ 8804' TVD	9235.83	90.000	89.871	8804.13	1.57	698.06	10.00	698.06
EOD @ 88.825° INC	9204.50	88.825	89.871	8804.73	1.70	756.81	2.00	756.82
BEU #286H PBHL	13159.78	88.825	89.871	8884.00	10.40	4621.18	0.00	4621.18



BGGM (1945.0 to 2015.0) Dip: 60.22° Field: 48366.9 nT
Magnetic North is 7.56 degrees East of True North (at 6/18/2014)
Grid North is 0.17 degrees East of True North
To correct azimuth from True to Grid subtract 0.17 degrees
To correct azimuth from Magnetic to Grid add 7.39 degrees





Planned Wellpath Report

Prelim Plan A

Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	Big Eddy Unit #286H (Unknown Rig)
Area	Eddy County, NM	Well	SL 1980 FNL, 330 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	Big Eddy Unit #286H Planned
Facility	Big Eddy Unit #286H Sec. 32-21S-29E		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	Well Architect® 4.0.0
North Reference	Grid	User	Burnranj
Scale	0.99992	Report Generated	6/18/2014 at 3:39:35 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 #286H (Unknown Rig) (Plan A).xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	598615.10	523052.90	32°26'15.288"N	104°00'49.277"W
Facility Reference Pt			598615.10	523052.90	32°26'15.288"N	104°00'49.277"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	3394.00ft
Vertical Reference Pt	(Unknown Rig) (RKB)	(Unknown Rig) (RKB) to Mud Line at Slot (Big Eddy Unit #286H (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	89.87°



Planned Wellpath Report

Prelim Plan A

Page n of nn



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	Big Eddy Unit #286H (Unknown Rig)
Area	Eddy County, NM	Well	SL 1980 FNL, 330 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	Big Eddy Unit #286H Planned
Facility	Big Eddy Unit #286H 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	89.871	0.00	0.00	0.00	0.00	0.00	
22.00	0.000	89.871	22.00	0.00	0.00	0.00	0.00	SL 1980 FNL, 330 FWL
130.00†	0.000	89.871	130.00	0.00	0.00	0.00	0.00	17/Fresh Water - 130 TVD
363.00†	0.000	89.871	363.00	0.00	0.00	0.00	0.00	Rustler - 363 TVD
644.00†	0.000	89.871	644.00	0.00	0.00	0.00	0.00	Salado - 644 TVD
3724.00†	0.000	89.871	3724.00	0.00	0.00	0.00	0.00	Dmg - 3724 TVD
3731.00†	0.000	89.871	3731.00	0.00	0.00	0.00	0.00	Bell Canyon - 3731 TVD
4544.00†	0.000	89.871	4544.00	0.00	0.00	0.00	0.00	Cherry Canyon - 4544 TVD
5219.00†	0.000	89.871	5219.00	0.00	0.00	0.00	0.00	Brushy Canyon - 5219 TVD
6744.00†	0.000	89.871	6744.00	0.00	0.00	0.00	0.00	Bone Spring Lime - 6744 TVD
7744.00†	0.000	89.871	7744.00	0.00	0.00	0.00	0.00	1st Bone Spring Sand - 7744 TVD
8252.50	0.000	89.871	8252.50	0.00	0.00	0.00	0.00	Est KOP
8300.00†	5.700	89.871	8299.92	2.36	0.01	2.36	12.00	
8400.00†	17.700	89.871	8397.67	22.60	0.05	22.60	12.00	
8500.00†	29.700	89.871	8489.06	62.72	0.14	62.72	12.00	
8600.00†	41.700	89.871	8570.12	120.97	0.27	120.97	12.00	
8633.02†	45.663	89.871	8594.00	143.77	0.32	143.77	12.00	2nd Bone Spring Sand - 8594 TVD
8700.00†	53.700	89.871	8637.30	194.80	0.44	194.80	12.00	
8800.00†	65.700	89.871	8687.66	280.98	0.63	280.98	12.00	
8835.83	70.000	89.871	8701.17	314.16	0.71	314.16	12.00	EOB @ 70° INC
8900.00†	70.000	89.871	8723.12	374.46	0.84	374.46	0.00	
9000.00†	70.000	89.871	8757.32	468.43	1.05	468.43	0.00	
9035.83	70.000	89.871	8769.57	502.10	1.13	502.10	0.00	EOH @ 200° CL
9100.00†	76.417	89.871	8788.10	563.50	1.27	563.50	10.00	
9200.00†	86.417	89.871	8803.01	662.25	1.49	662.25	10.00	
9235.83	90.000	89.871	8804.13	698.06	1.57	698.06	10.00	LP 90° INC @ 8804° TVD
9294.59	88.825	89.871	8804.73	756.82	1.70	756.81	2.00	EOD @ 88.825° INC
9300.00†	88.825	89.871	8804.84	762.23	1.72	762.22	0.00	
9400.00†	88.825	89.871	8806.89	862.20	1.94	862.20	0.00	
9500.00†	88.825	89.871	8808.94	962.18	2.17	962.18	0.00	
9600.00†	88.825	89.871	8810.99	1062.16	2.39	1062.16	0.00	
9700.00†	88.825	89.871	8813.04	1162.14	2.62	1162.14	0.00	
9800.00†	88.825	89.871	8815.10	1262.12	2.84	1262.12	0.00	
9900.00†	88.825	89.871	8817.15	1362.10	3.07	1362.10	0.00	
10000.00†	88.825	89.871	8819.20	1462.08	3.29	1462.07	0.00	
10100.00†	88.825	89.871	8821.25	1562.06	3.52	1562.05	0.00	
10200.00†	88.825	89.871	8823.30	1662.04	3.74	1662.03	0.00	
10300.00†	88.825	89.871	8825.35	1762.01	3.97	1762.01	0.00	
10400.00†	88.825	89.871	8827.40	1861.99	4.19	1861.99	0.00	
10500.00†	88.825	89.871	8829.45	1961.97	4.42	1961.97	0.00	
10600.00†	88.825	89.871	8831.50	2061.95	4.64	2061.95	0.00	
10700.00†	88.825	89.871	8833.55	2161.93	4.87	2161.93	0.00	
10800.00†	88.825	89.871	8835.60	2261.91	5.09	2261.90	0.00	
10900.00†	88.825	89.871	8837.66	2361.89	5.32	2361.88	0.00	
11000.00†	88.825	89.871	8839.71	2461.87	5.54	2461.86	0.00	



Planned Wellpath Report

Prelim Plan A

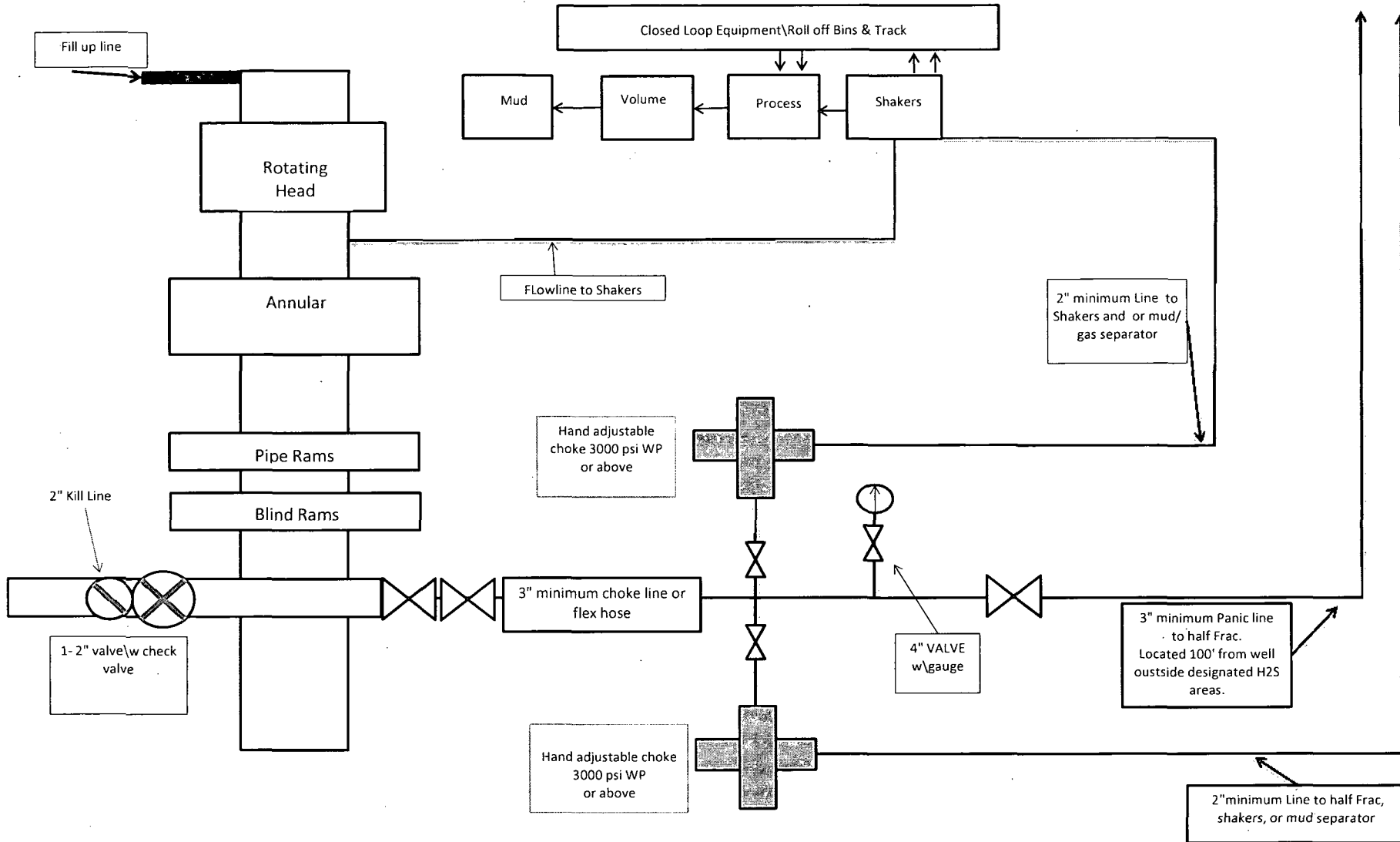
Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	Big Eddy Unit #286H (Unknown Rig)
Area	Eddy County, NM	Well	SL 1980 FNL, 330 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	Big Eddy Unit #286H Planned
Facility	Big Eddy Unit #286H Sec. 32-21S-29E		

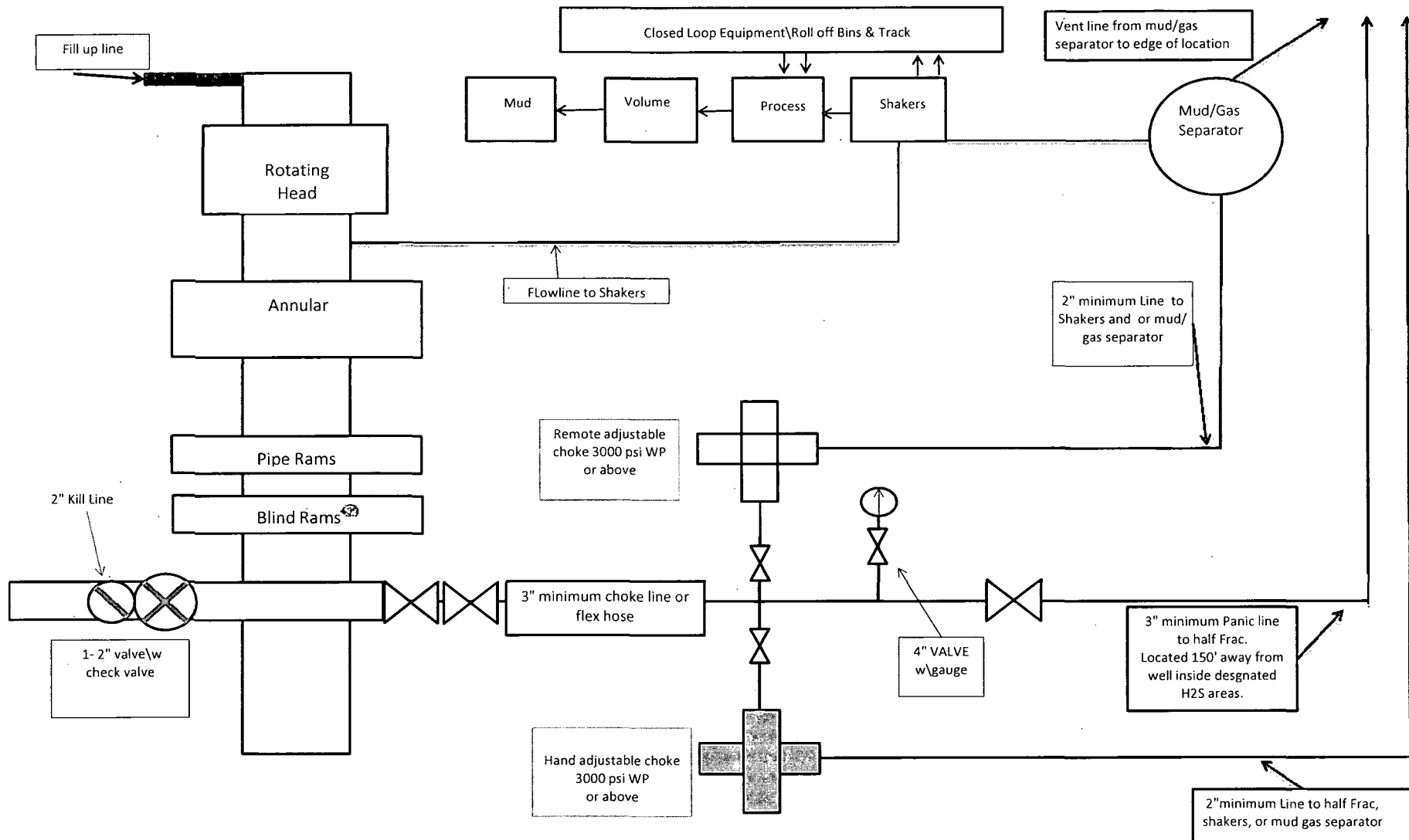
WELLPATH DATA (67 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
11100.00†	88.825	89.871	8841.76	2561.85	5.77	2561.84	0.00	
11200.00†	88.825	89.871	8843.81	2661.83	5.99	2661.82	0.00	
11300.00†	88.825	89.871	8845.86	2761.80	6.22	2761.80	0.00	
11400.00†	88.825	89.871	8847.91	2861.78	6.44	2861.78	0.00	
11500.00†	88.825	89.871	8849.96	2961.76	6.67	2961.76	0.00	
11600.00†	88.825	89.871	8852.01	3061.74	6.89	3061.73	0.00	
11700.00†	88.825	89.871	8854.06	3161.72	7.12	3161.71	0.00	
11800.00†	88.825	89.871	8856.11	3261.70	7.34	3261.69	0.00	
11900.00†	88.825	89.871	8858.16	3361.68	7.57	3361.67	0.00	
12000.00†	88.825	89.871	8860.21	3461.66	7.79	3461.65	0.00	
12100.00†	88.825	89.871	8862.27	3561.64	8.02	3561.63	0.00	
12200.00†	88.825	89.871	8864.32	3661.62	8.24	3661.61	0.00	
12300.00†	88.825	89.871	8866.37	3761.59	8.47	3761.58	0.00	
12400.00†	88.825	89.871	8868.42	3861.57	8.69	3861.56	0.00	
12500.00†	88.825	89.871	8870.47	3961.55	8.92	3961.54	0.00	
12600.00†	88.825	89.871	8872.52	4061.53	9.14	4061.52	0.00	
12700.00†	88.825	89.871	8874.57	4161.51	9.37	4161.50	0.00	
12800.00†	88.825	89.871	8876.62	4261.49	9.59	4261.48	0.00	
12900.00†	88.825	89.871	8878.67	4361.47	9.82	4361.46	0.00	
13000.00†	88.825	89.871	8880.72	4461.45	10.04	4461.44	0.00	
13100.00†	88.825	89.871	8882.77	4561.43	10.27	4561.41	0.00	
13159.78	88.825	89.871	8884.00	4621.19	10.40	4621.18	0.00	BEU #286H PBHL

SURVEY PROGRAM - Ref Wellbore: Big Eddy Unit #286H Planned Ref Wellpath: Prelim Plan A				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	13200.00	NaviTrak (Standard)		Big Eddy Unit #286H Planned



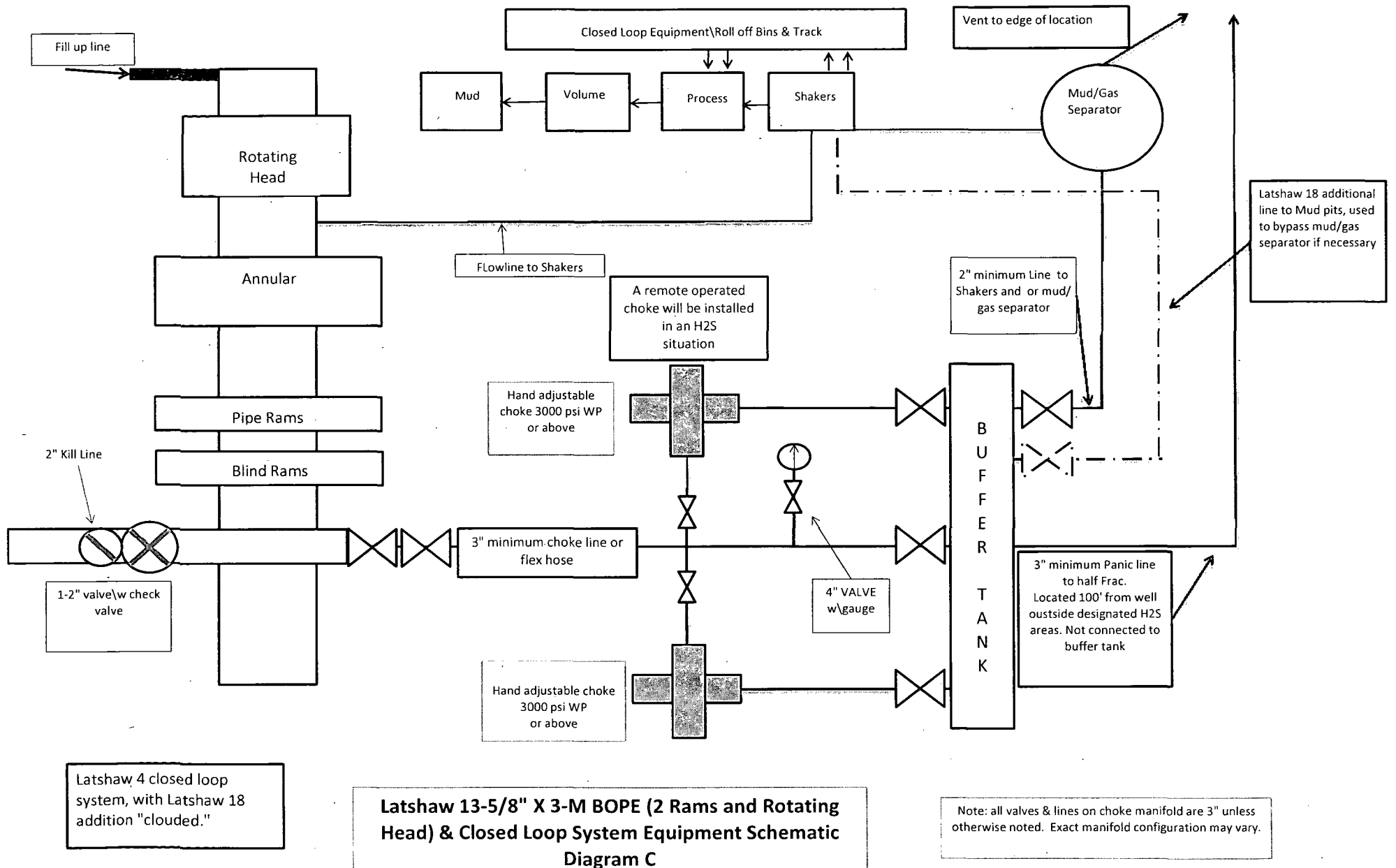
13-5/8" X 3-M BOPE (2 Rams and Rotating Head) & Closed Loop System Equipment Schematic Diagram A

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.

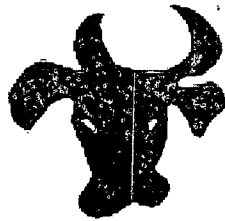
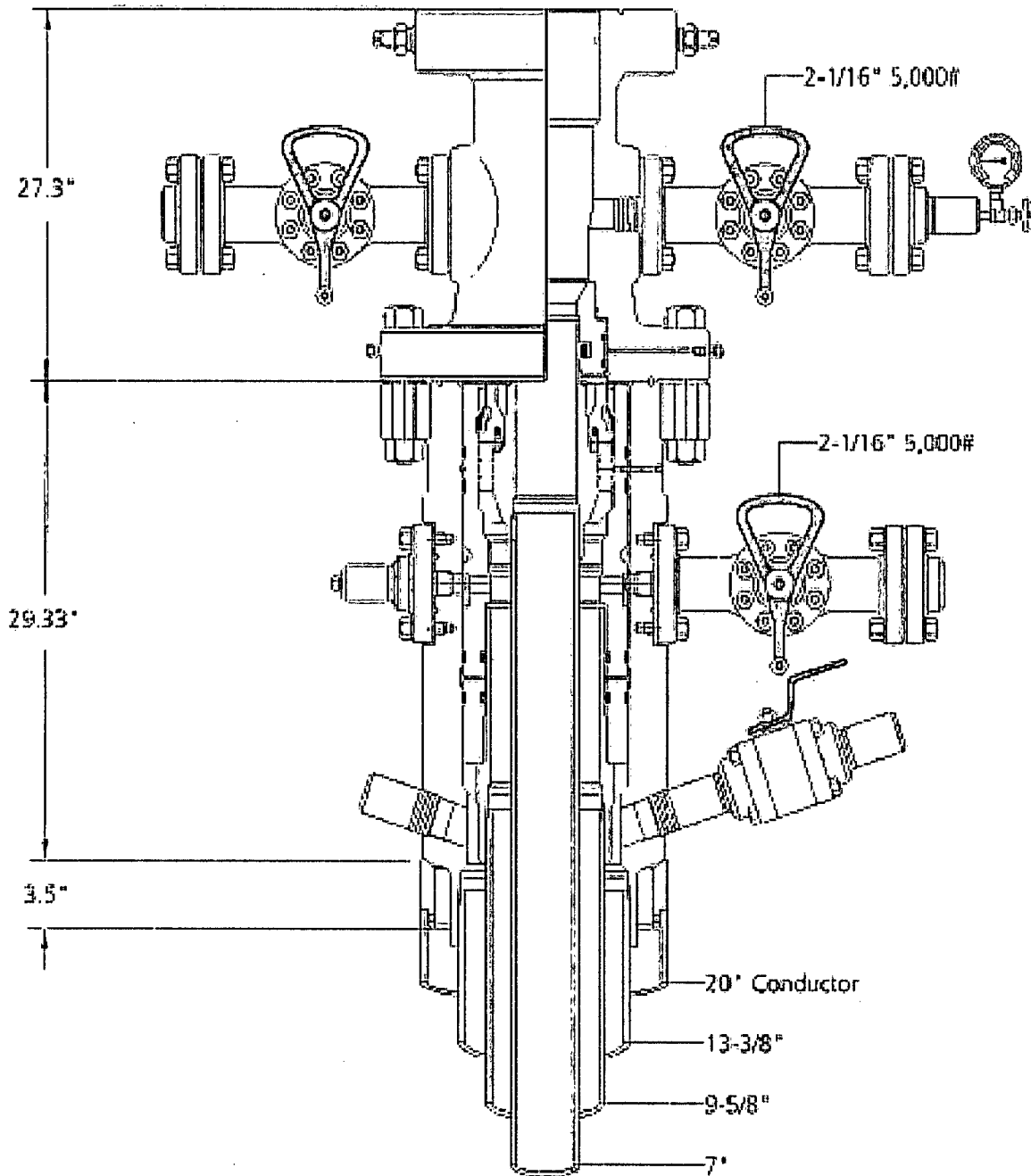


Diagram Z



BOPCO
Project: South East New Mexico



11/2013	Jeanette	7-22-13	01/01/13 (1/1/13)	#	21077904-A
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Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

April 4, 2012

Customer: Latshaw

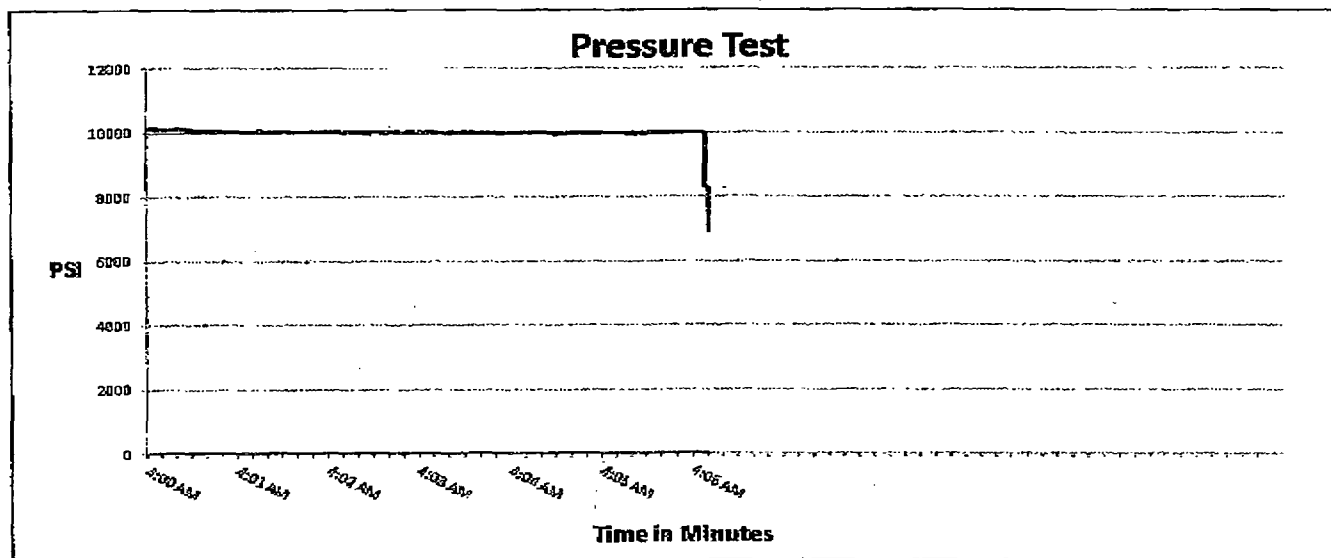
Pick Ticket #: 81610

Hose Specifications

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

Verification

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

**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	

Permit Conditions of Approval

API: 30-0/5-42460

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