

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

Form C-101
Revised July-18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 23 2014

RECEIVED

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 30-015-42459
		6. Well No. 285H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	32	21 S	29 E		660	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
A	32	21 S	29 E		660	NORTH	330	EAST	EDDY

9. Pool Information

Pool Name	Pool Code
US; Bone Spring	97077

Additional Well Information

11. Work Type New Well	12. Well Type Oil	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3,375'
16. Multiple N	17. Proposed Depth 13,153'	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	13,153'	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 I1625 N. French Dr., Hobbs, NM 88210
Phone:(505)393-6161 Fax:(505)393-0720**DISTRICT II**811 S. First St., Artesia, NM 88210
Phone:(505)748-1283 Fax:(505)748-0720**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)176-3462State 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

NM OIL CONSERVATIONSubmit one copy to appropriate
District Office

JUN 23 2014

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

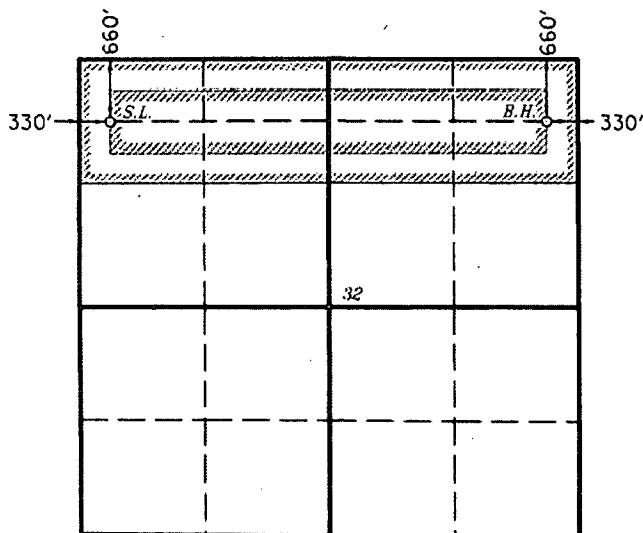
API Number 30-015-42459		Pool Code 97077	Pool Name US; Bone Spring
Property Code 305860	Property Name BIG EDDY UNIT		Well Number #285H
OGRID No. 260737	Operator Name BOPCO, L.P.		Elevation 3375'

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	32	21 S	29 E		660	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
A	32	21 S	29 E		660	NORTH	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°26'28.35"
Long - W 104°00'49.29"
NMSPC- N 524372.8
E 598609.7
(NAD-27)**PROPOSED BOTTOM HOLE LOCATION**Lat - N 32°26'28.31"
Long - W 103°59'55.36"
NMSPC- N 524383.2
E 603231.3
(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 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

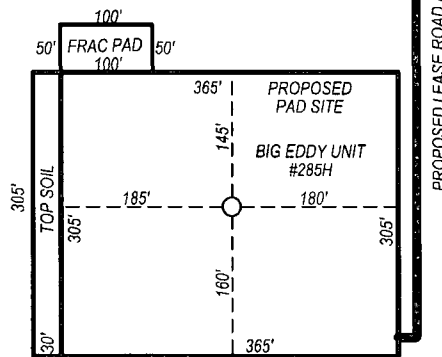
Signature & seal of
Professional SurveyorTIM C. PAPPAS
NEW MEXICO
21209
REGISTERED PROFESSIONAL SURVEYOR
JUNE 14 2014
Tim C. Pappas
Certificate No. 21209
HALFF ASSOCIATES

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

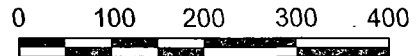
BOPCO, L.P.
BIG EDDY UNIT #285H
ELEV. -3375'

Lat - N 32°26'28.35"
Long - W 104°00'49.29"

NMSPCE- N 524372.8
E 598609.7
(NAD-27)



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



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 #285H / WELL PAD TOPO

THE PLU BIG EDDY UNIT #285H 660'

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-W029

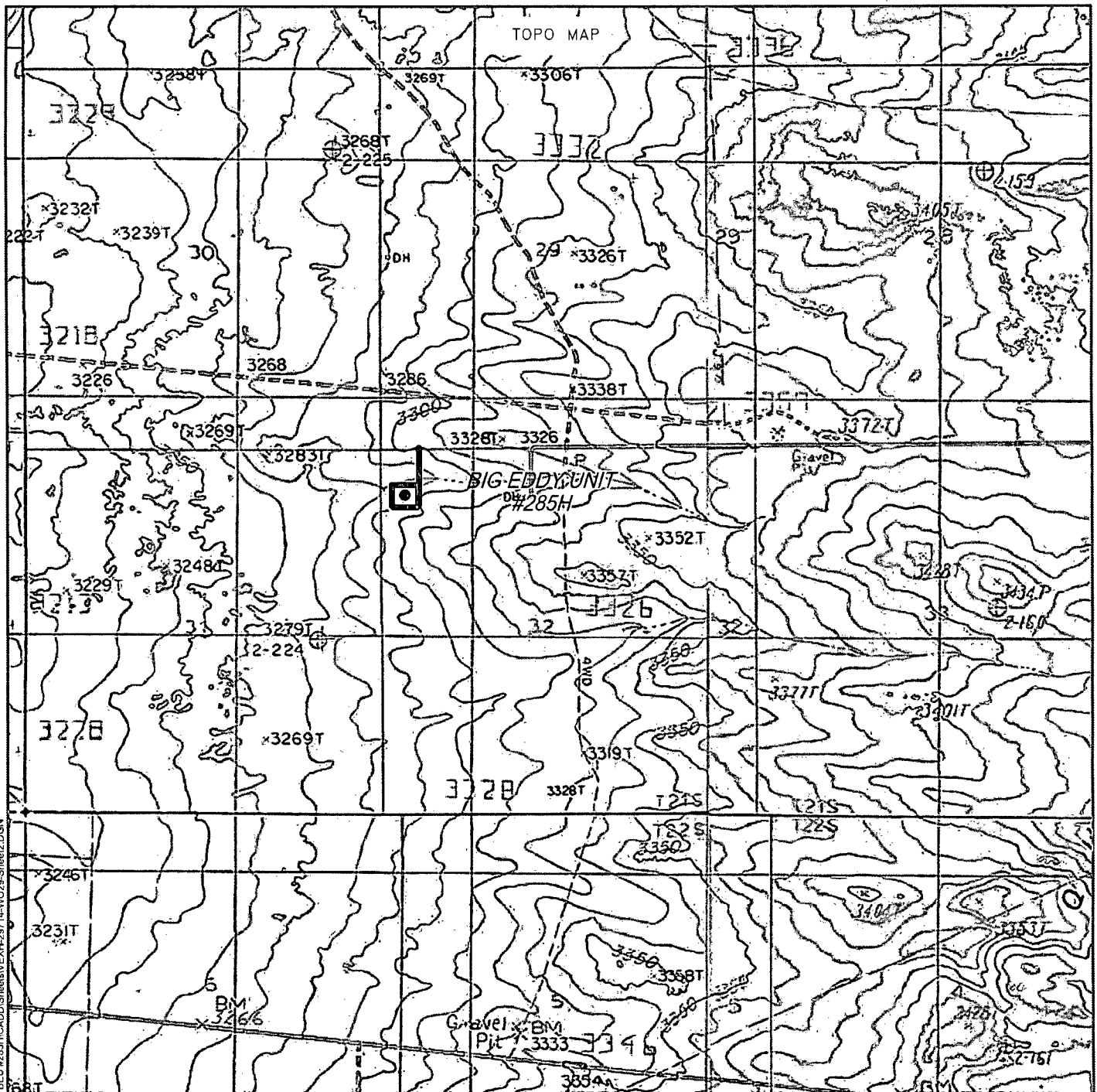
Drawn By: RG

Date: 6/5/2014

Checked By: TP

Survey Date: 06-02-2014

Sheet 1 of 7 Sheets



BIG EDDY UNIT #285H

Located 660' 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-W029

Survey Date: 06-02-2014

Scale: 1"=2000'

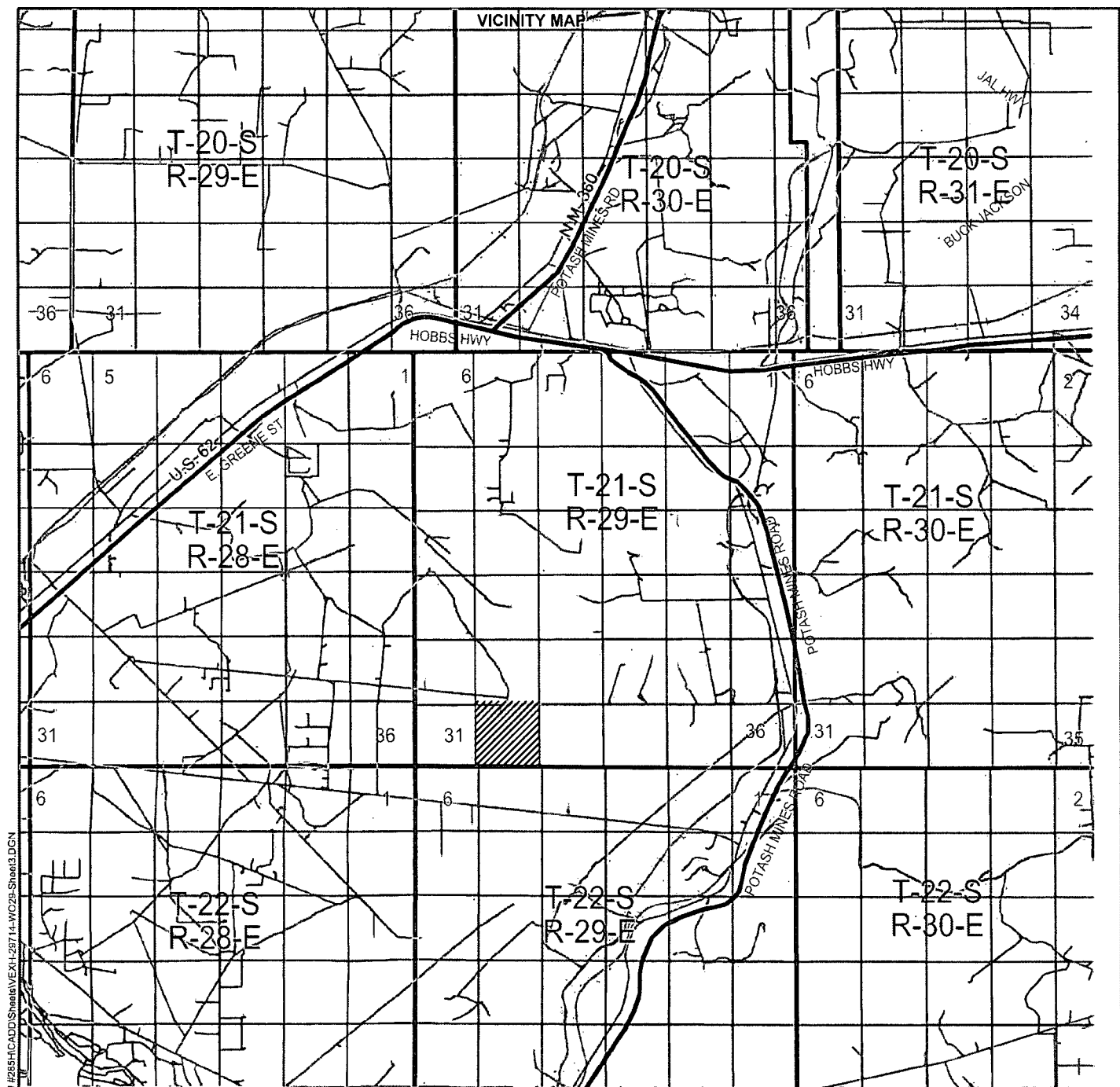
Date: 6/5/2014

N



BOPCO, L.P.

Sheet 2 of 7 Sheets



BIG EDDY UNIT #285H

Located 660' 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-W029

Survey Date: 09-28-2013

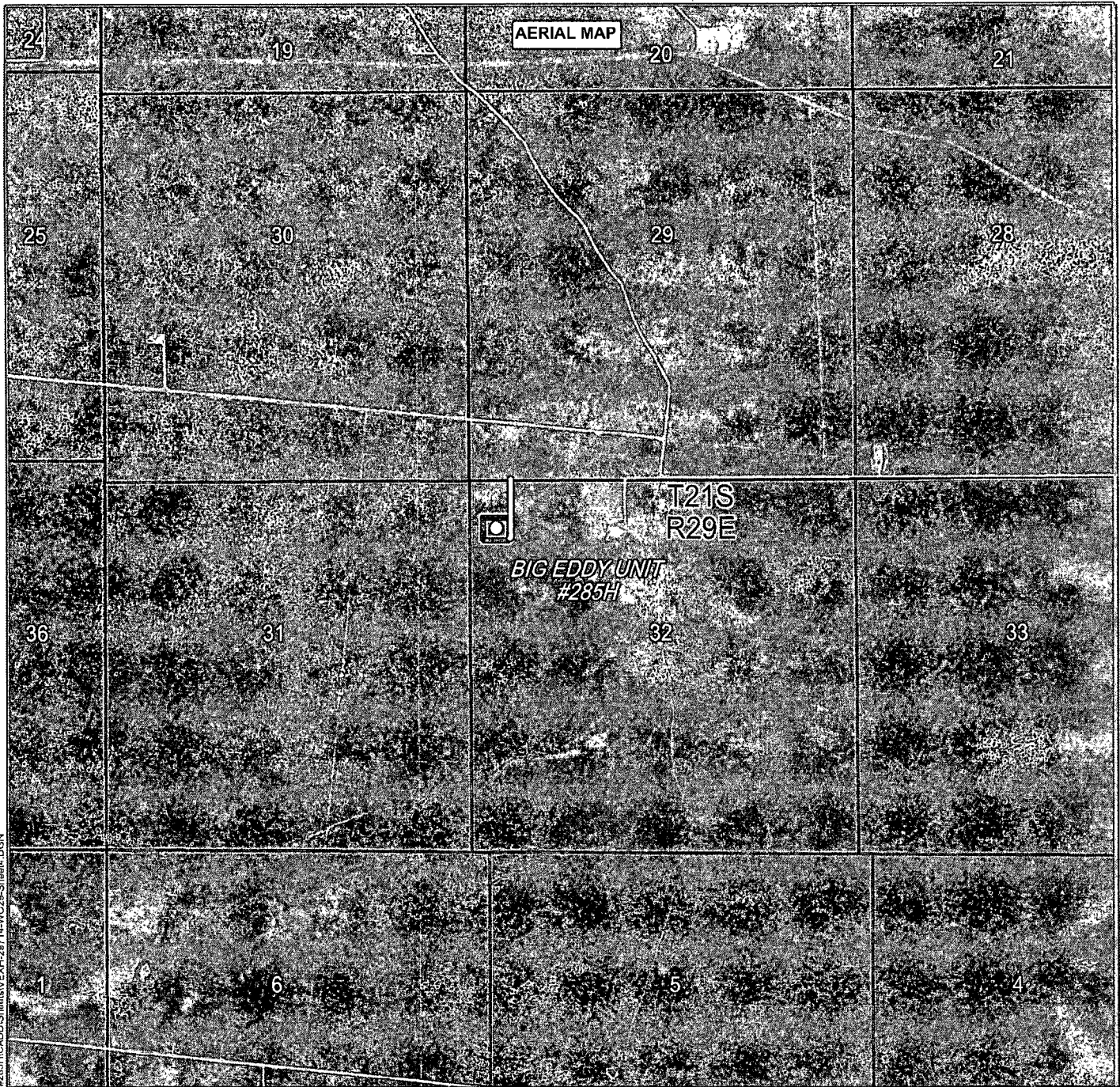
Scale: 1" = 2 MILES

Date: 6/5/2014



BOPCO, L.P.

Sheet 3 of 7 Sheets



BIG EDDY UNIT #285H

Located 660' FNL, 330' FWL

Section 32, Township 21 South, Range 29 East

N.M.P.M., Eddy County, New Mexico.



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PHONE: (214) 346-6200
FAX: (214) 739-0095

AVO. 29714-W029

Survey Date: 06-03-2014

Scale: 1"=2000'

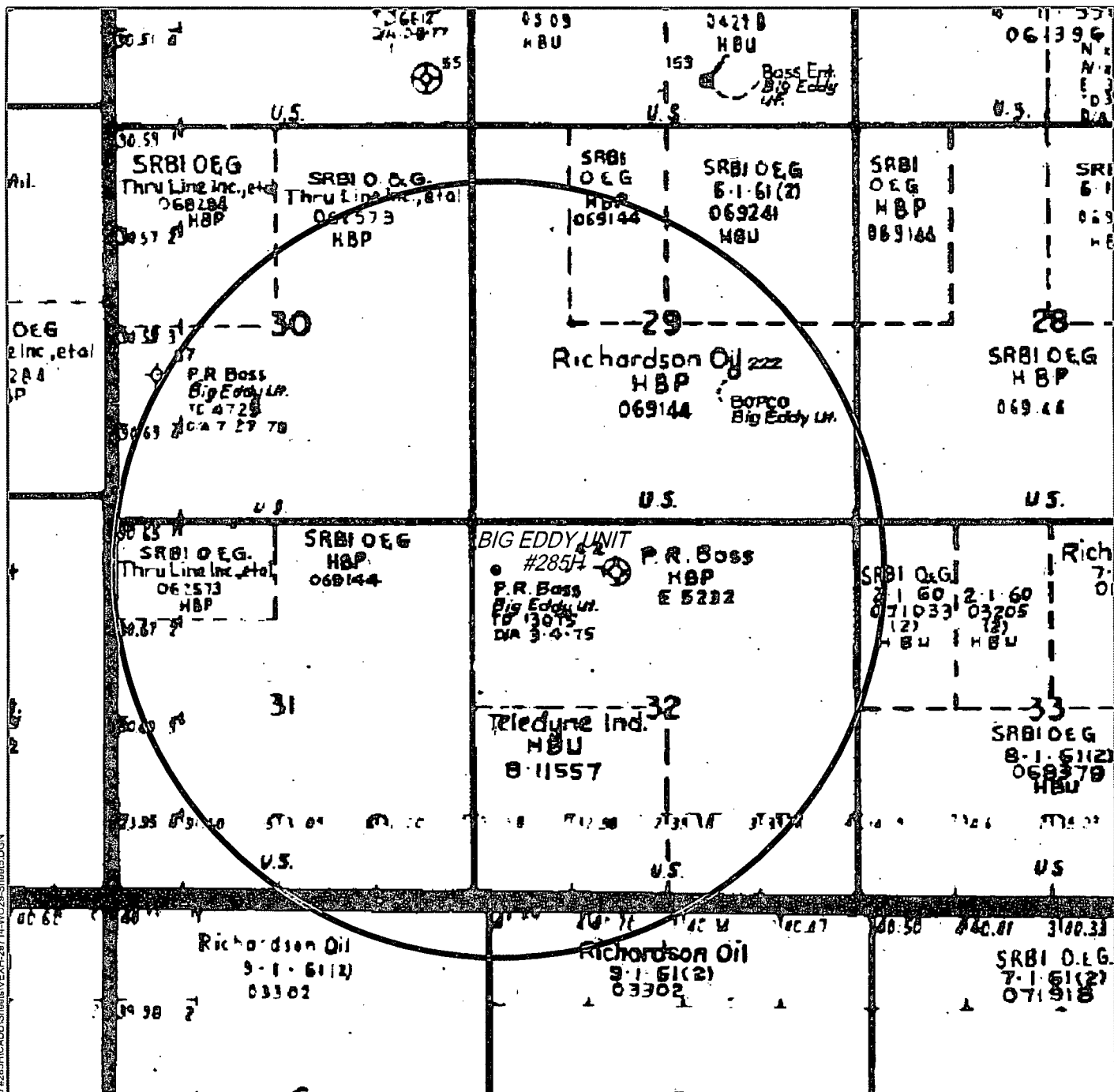
Date: 6/5/2014



BOPCO, L.P.

Sheet 4 of 7 Sheets

6/5/2014 11:05:58 AM 4/27/05 HALFF N285H-CADD-Sheet5-VXH-29714-W029-Sheet5.DGN



PLU BIG EDDY UNIT #285H (SURFACE HOLE MAP)

Located 660' FNL, 330' FWL

Section 32, Township 21 South, Range 29 East

N.M.P.M., Eddy County, New Mexico.



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1201 NORTH BOWSER ROAD
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PHONE: (214) 346-6200
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AVO. 29714-W029

Scale: 1"=2000'

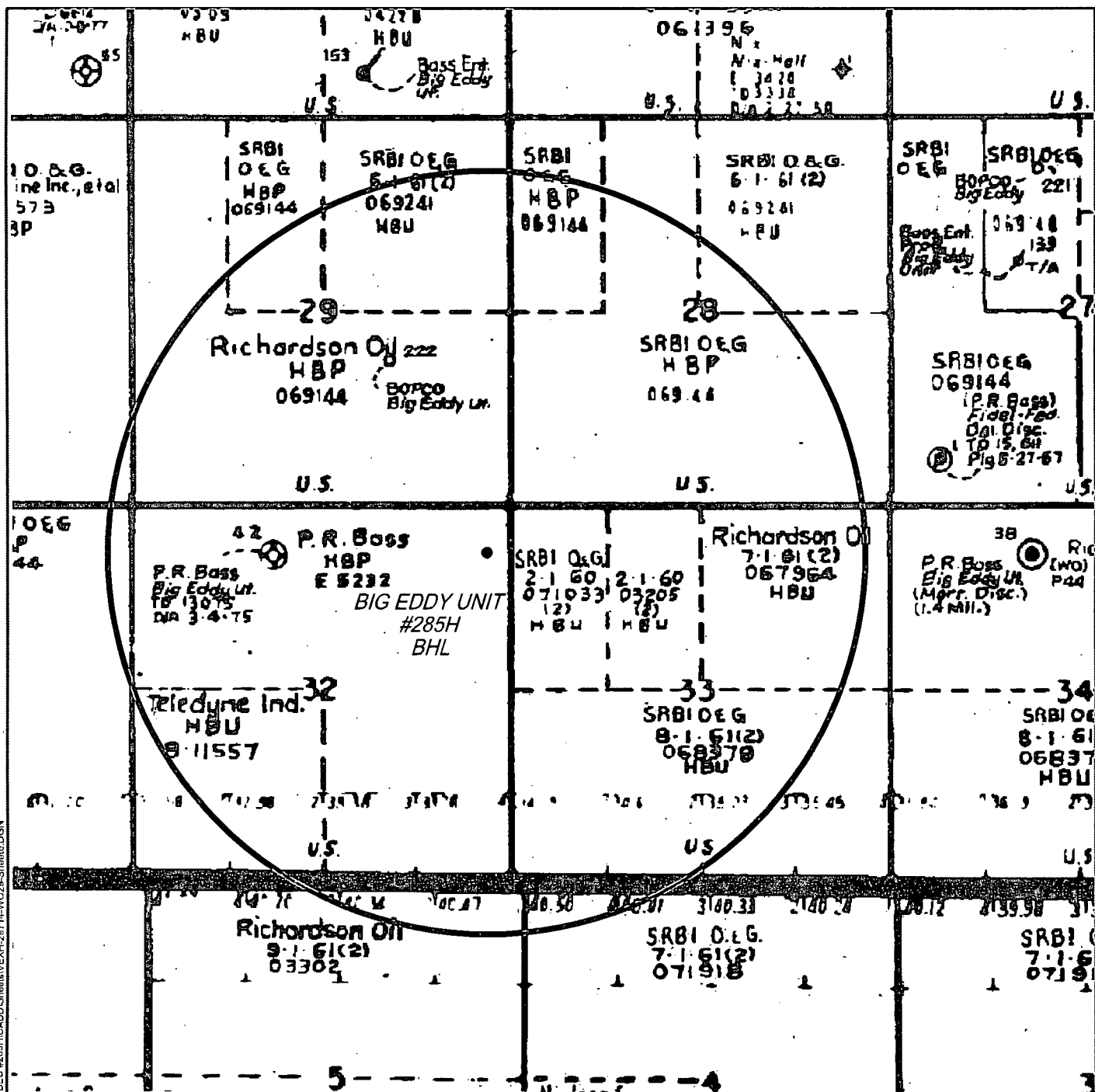
Survey Date: 06-02-2014
Date: 6/5/2014

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



BOPCO, L.P.

Sheet 5 of 7 Sheets



PLU BIG EDDY UNIT #285H (BOTTOM HOLE MAP)

Located 660' FNL, 330' FEL

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



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

N



BOPCO, L.P.

Sheet 6 of 7 Sheets

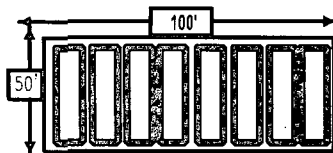
Exhibit "D"

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



Water, and
Mud Storage

A

EDGE OF LOCATION W/BERM

SOLIDS CONTROL

MUD LOGGER

30'

145'

TOP SOIL

305'

LIGHT PLANT

BOTTOM DOG

WATER TANK

WATER TANK

FUEL TANK

PARTS HOUSE

BIG EDDY UNIT # 285H

Located 660' FNL, 330' FWL

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

TRAILER HOUSES

SUBSTRUCTURE

DOG HOUSE

PIPE RACKS

160'



ACCESS

185'

180'

30'



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FAX (214) 739-0095

AVO. 29714-W029

Survey Date: 06-02-2014

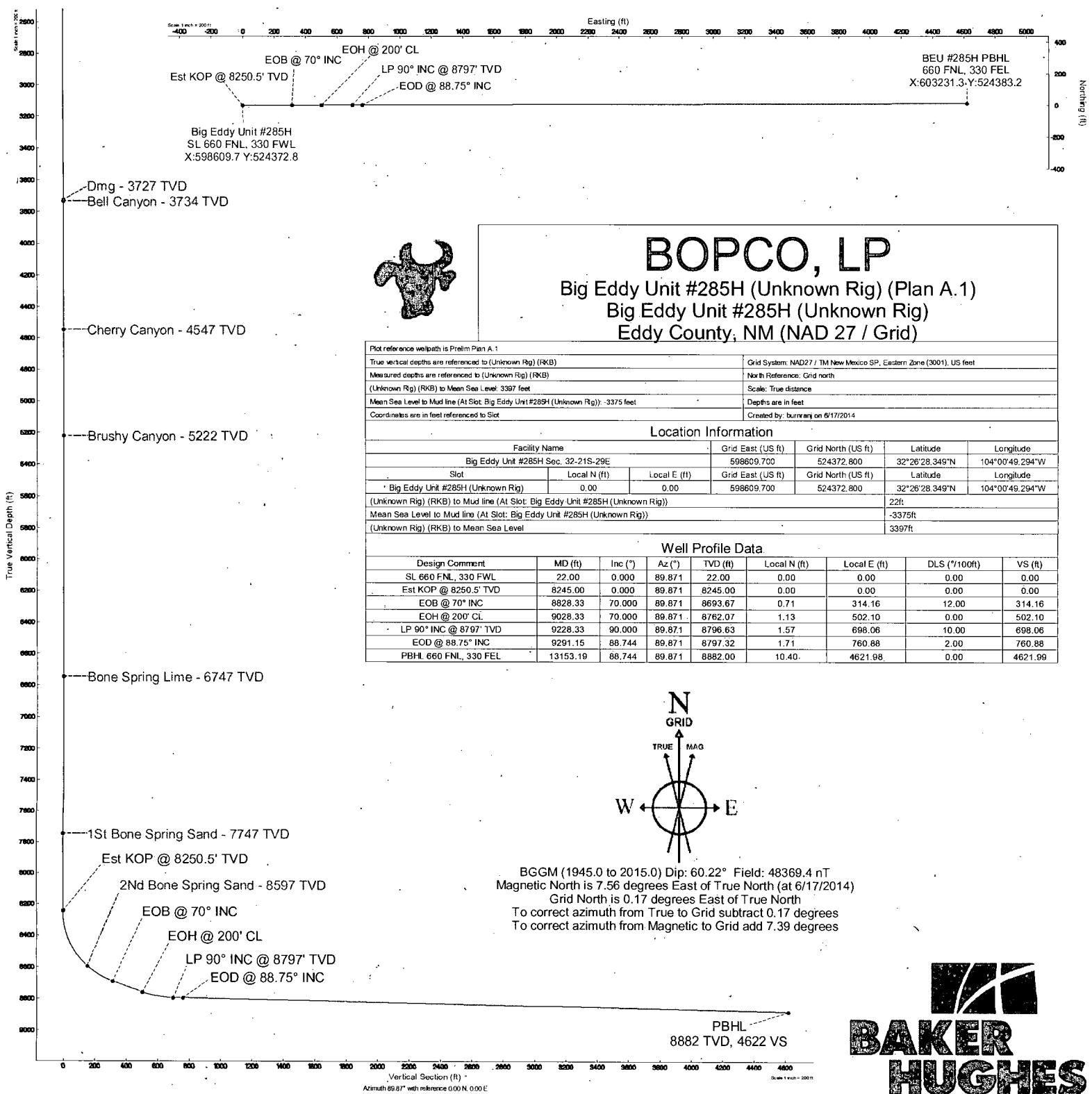
NOT TO SCALE

Date: 6/5/2014



BOPCO, L.P.

Sheet 7 of 7 Sheets



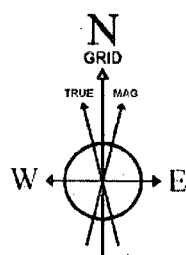
BOPCO, LP

Big Eddy Unit #285H (Unknown Rig) (Plan A.1)
Big Eddy Unit #285H (Unknown Rig)
Eddy County, NM (NAD 27 / Grid)

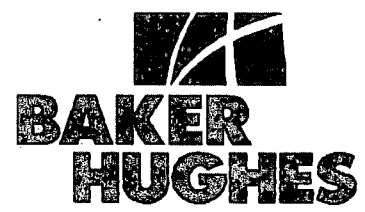
Plot reference wellpath is Prelim Plan A.1	
True vertical depths are referenced to (Unknown Rig) (RKB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to (Unknown Rig) (RKB)	North Reference: Grid north
(Unknown Rig) (RKB) to Mean Sea Level: 3397 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Big Eddy Unit #285H (Unknown Rig)): -3375 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: burnham on 6/17/2014

Location Information					
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Big Eddy Unit #285H Sec. 32-21S-29E		598609.700	524372.800	32°26'28.349"N	104°00'49.294"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Big Eddy Unit #285H (Unknown Rig)	0.00	0.00	598609.700	524372.800	32°26'28.349"N
(Unknown Rig) (RKB) to Mud line (At Slot: Big Eddy Unit #285H (Unknown Rig))				22ft	
Mean Sea Level to Mud line (At Slot: Big Eddy Unit #285H (Unknown Rig))				-3375ft	
(Unknown Rig) (RKB) to Mean Sea Level				3397ft	

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
SL 660 FNL, 330 FWL	22.00	0.000	89.871	22.00	0.00	0.00	0.00	0.00
Est KOP @ 8250.5' TVD	8245.00	0.000	89.871	8245.00	0.00	0.00	0.00	0.00
EOB @ 70° INC	8828.33	70.000	89.871	8693.67	0.71	314.16	12.00	314.16
EOH @ 200' CL	9028.33	70.000	89.871	8762.07	1.13	502.10	0.00	502.10
LP 90° INC @ 8797' TVD	9228.33	90.000	89.871	8796.63	1.57	698.06	10.00	698.06
EOD @ 88.75° INC	9291.15	88.744	89.871	8797.32	1.71	760.88	2.00	760.88
PBHL 660 FNL, 330 FEL	13153.19	88.744	89.871	8882.00	10.40	4621.98	0.00	4621.99



BGGM (1945.0 to 2015.0) Dip: 60.22° Field: 48369.4 nT
Magnetic North is 7.56 degrees East of True North (at 6/17/2014)
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.1

Page n of nn



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	Big Eddy Unit #285H (Unknown Rig)
Area	Eddy County, NM	Well	SL 660 FNL, 330 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	Big Eddy Unit #285H Planned
Facility	Big Eddy Unit #285H 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	6/17/2014 at 3:05:29 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 #285H (Unknown Rig) (Plan A.1).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	598609.70	524372.80	32°26'28.349"N	104°00'49.294"W
Facility Reference Pt			598609.70	524372.80	32°26'28.349"N	104°00'49.294"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	3397.00ft
Vertical Reference Pt	(Unknown Rig) (RKB)	(Unknown Rig) (RKB) to Mud Line at Slot (Big Eddy Unit #285H (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.1

Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	Big Eddy Unit #285H (Unknown Rig)
Area	Eddy County, NM	Well	SL 660 FNL, 330 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	Big Eddy Unit #285H Planned
Facility	Big Eddy Unit #285H 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	0.00	
22.00	0.000	89.871	22.00	0.00	0.00	0.00	0.00	0.00	SL 660 FNL, 330 FWL
130.00†	0.000	89.871	130.00	0.00	0.00	0.00	0.00	0.00	T/Fresh Water - 130 TVD
366.00†	0.000	89.871	366.00	0.00	0.00	0.00	0.00	0.00	Rustler - 366 TVD
647.00†	0.000	89.871	647.00	0.00	0.00	0.00	0.00	0.00	Salado - 647 TVD
3727.00†	0.000	89.871	3727.00	0.00	0.00	0.00	0.00	0.00	Dmg - 3727 TVD
3734.00†	0.000	89.871	3734.00	0.00	0.00	0.00	0.00	0.00	Bell Canyon - 3734 TVD
4547.00†	0.000	89.871	4547.00	0.00	0.00	0.00	0.00	0.00	Cherry Canyon - 4547 TVD
5222.00†	0.000	89.871	5222.00	0.00	0.00	0.00	0.00	0.00	Brushy Canyon - 5222 TVD
6747.00†	0.000	89.871	6747.00	0.00	0.00	0.00	0.00	0.00	Bone Spring Lime - 6747 TVD
7747.00†	0.000	89.871	7747.00	0.00	0.00	0.00	0.00	0.00	1st Bone Spring Sand - 7747 TVD
8245.00	0.000	89.871	8245.00	0.00	0.00	0.00	0.00	0.00	Est KOP @ 8250.5' TVD
8300.00†	6.600	89.871	8299.88	3.16	-0.01	3.16	12.00		
8400.00†	18.600	89.871	8397.29	24.94	0.06	24.94	12.00		
8500.00†	30.600	89.871	8488.05	66.49	0.15	66.49	12.00		
8600.00†	42.600	89.871	8568.18	126.00	0.28	126.00	12.00		
8640.80†	47.496	89.871	8597.00	154.87	0.35	154.87	12.00		2nd Bone Spring Sand - 8597 TVD
8700.00†	54.600	89.871	8634.19	200.88	0.45	200.88	12.00		
8800.00†	66.600	89.871	8683.20	287.84	0.65	287.84	12.00		
8828.33	70.000	89.871	8693.67	314.16	0.71	314.16	12.00		EOB @ 70° INC
8900.00†	70.000	89.871	8718.18	381.51	0.86	381.51	0.00		
9000.00†	70.000	89.871	8752.38	475.48	1.07	475.47	0.00		
9028.33	70.000	89.871	8762.07	502.10	1.13	502.10	0.00		EOH @ 200' CL
9100.00†	77.167	89.871	8782.32	570.80	1.28	570.80	10.00		
9200.00†	87.167	89.871	8795.93	669.74	1.51	669.74	10.00		
9228.33	90.000	89.871	8796.63	698.06	1.57	698.06	10.00		LP 90° INC @ 8797' TVD
9291.15	88.744	89.871	8797.32	760.88	1.71	760.88	2.00		EOD @ 88.75° INC
9300.00†	88.744	89.871	8797.51	769.72	1.73	769.72	0.00		
9400.00†	88.744	89.871	8799.70	869.70	1.96	869.70	0.00		
9500.00†	88.744	89.871	8801.90	969.68	2.18	969.67	0.00		
9600.00†	88.744	89.871	8804.09	1069.65	2.41	1069.65	0.00		
9700.00†	88.744	89.871	8806.28	1169.63	2.63	1169.62	0.00		
9800.00†	88.744	89.871	8808.47	1269.60	2.86	1269.60	0.00		
9900.00†	88.744	89.871	8810.67	1369.58	3.08	1369.58	0.00		
10000.00†	88.744	89.871	8812.86	1469.56	3.31	1469.55	0.00		
10100.00†	88.744	89.871	8815.05	1569.53	3.53	1569.53	0.00		
10200.00†	88.744	89.871	8817.24	1669.51	3.76	1669.50	0.00		
10300.00†	88.744	89.871	8819.44	1769.48	3.98	1769.48	0.00		
10400.00†	88.744	89.871	8821.63	1869.46	4.21	1869.45	0.00		
10500.00†	88.744	89.871	8823.82	1969.43	4.43	1969.43	0.00		
10600.00†	88.744	89.871	8826.02	2069.41	4.66	2069.41	0.00		
10700.00†	88.744	89.871	8828.21	2169.39	4.88	2169.38	0.00		
10800.00†	88.744	89.871	8830.40	2269.36	5.11	2269.36	0.00		
10900.00†	88.744	89.871	8832.59	2369.34	5.33	2369.33	0.00		
11000.00†	88.744	89.871	8834.79	2469.31	5.56	2469.31	0.00		



Planned Wellpath Report

Prelim Plan A.1

Page n of nn

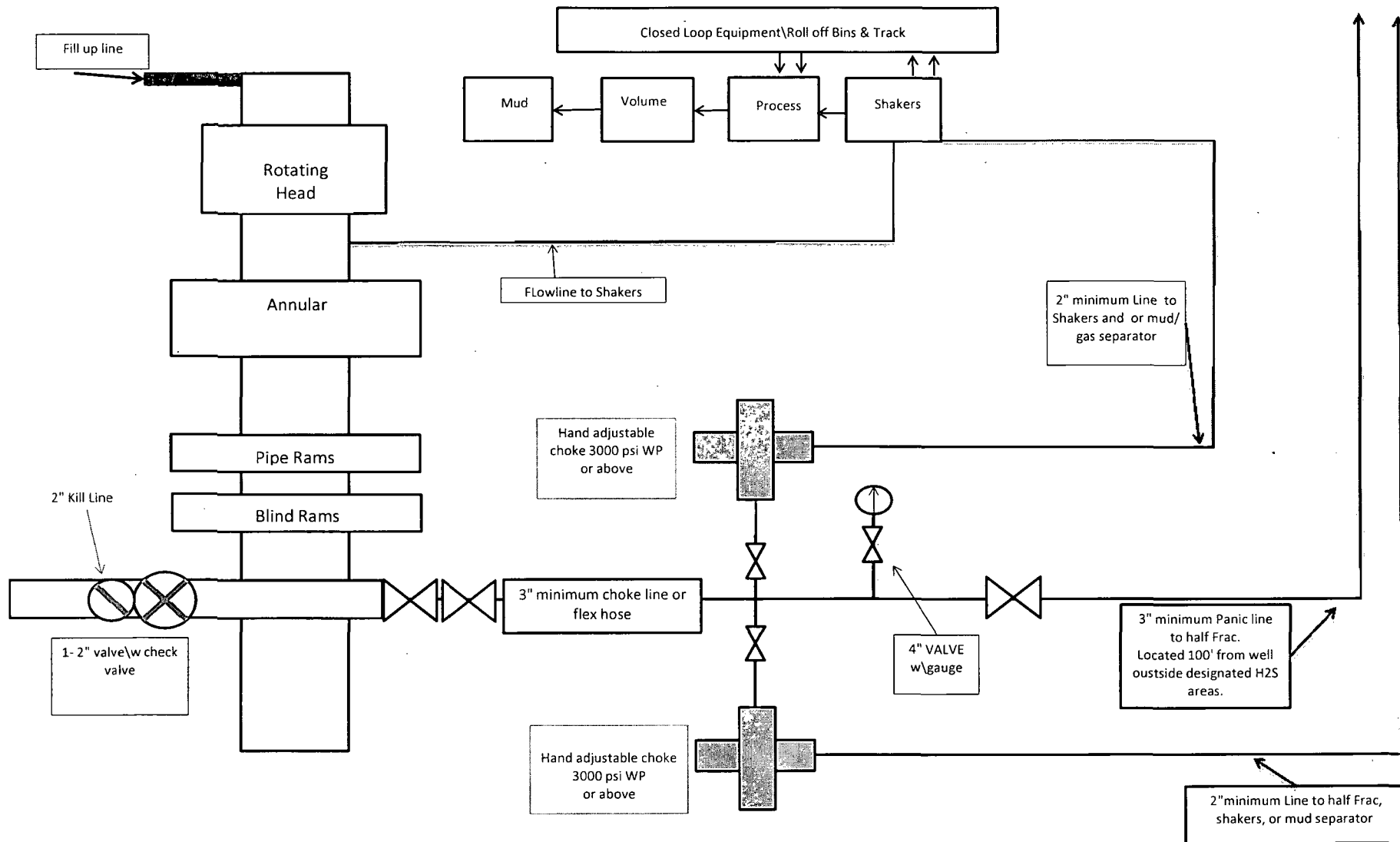


REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	Big Eddy Unit #285H (Unknown Rig)
Area	Eddy County, NM	Well	SL 660 FNL, 330 FWL
Field	Eddy County, NM (NAD 27 / Grid)	Wellbore	Big Eddy Unit #285H Planned
Facility	Big Eddy Unit #285H Sec. 32-21S-29E		

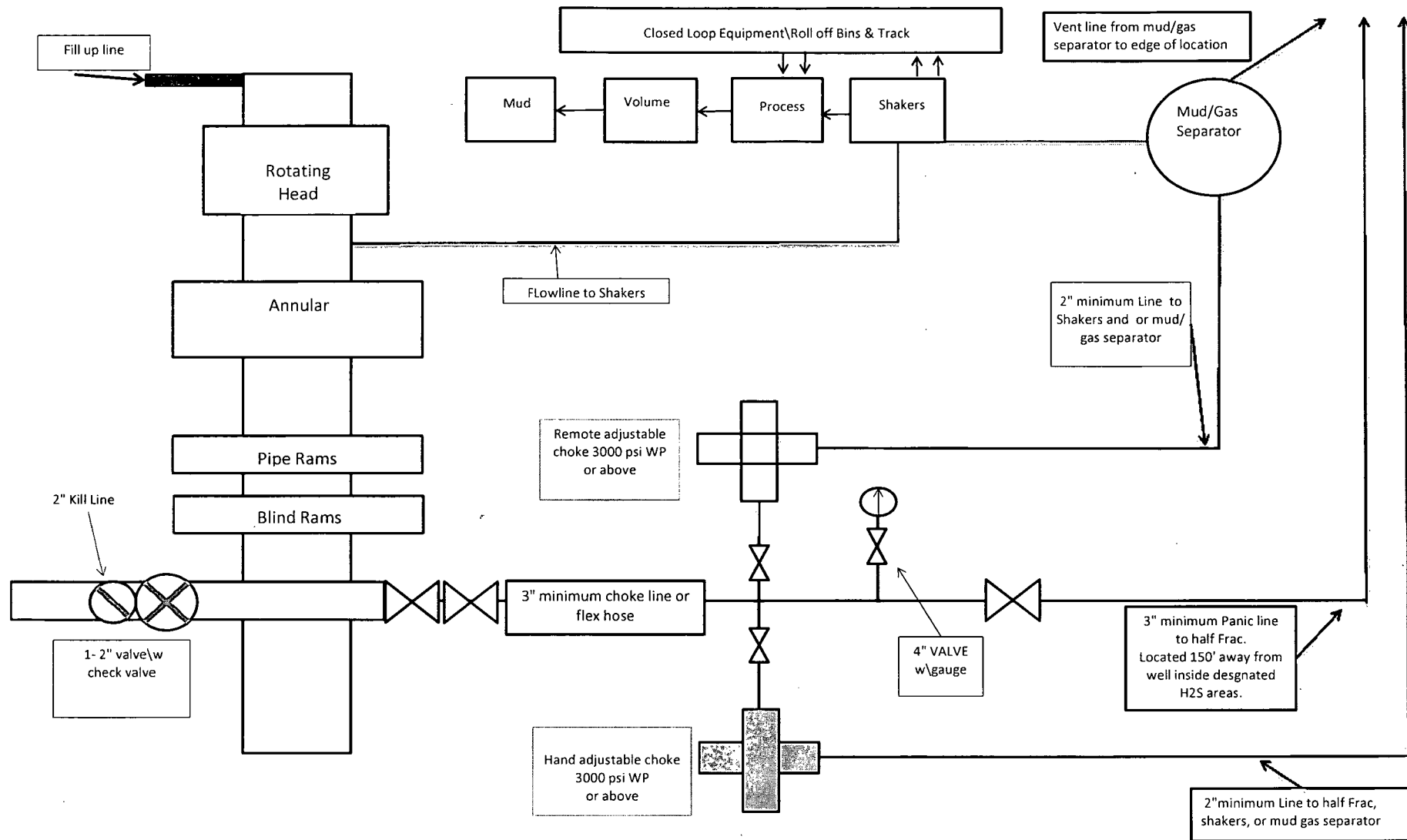
WELLPATH DATA (67 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
11100.00†	88.744	89.871	8836.98	2569.29	5.78	2569.28	0.00	
11200.00†	88.744	89.871	8839.17	2669.27	6.01	2669.26	0.00	
11300.00†	88.744	89.871	8841.36	2769.24	6.23	2769.24	0.00	
11400.00†	88.744	89.871	8843.56	2869.22	6.46	2869.21	0.00	
11500.00†	88.744	89.871	8845.75	2969.19	6.68	2969.19	0.00	
11600.00†	88.744	89.871	8847.94	3069.17	6.91	3069.16	0.00	
11700.00†	88.744	89.871	8850.14	3169.15	7.13	3169.14	0.00	
11800.00†	88.744	89.871	8852.33	3269.12	7.36	3269.11	0.00	
11900.00†	88.744	89.871	8854.52	3369.10	7.58	3369.09	0.00	
12000.00†	88.744	89.871	8856.71	3469.07	7.81	3469.07	0.00	
12100.00†	88.744	89.871	8858.91	3569.05	8.03	3569.04	0.00	
12200.00†	88.744	89.871	8861.10	3669.03	8.26	3669.02	0.00	
12300.00†	88.744	89.871	8863.29	3769.00	8.48	3768.99	0.00	
12400.00†	88.744	89.871	8865.48	3868.98	8.71	3868.97	0.00	
12500.00†	88.744	89.871	8867.68	3968.95	8.93	3968.94	0.00	
12600.00†	88.744	89.871	8869.87	4068.93	9.16	4068.92	0.00	
12700.00†	88.744	89.871	8872.06	4168.91	9.38	4168.90	0.00	
12800.00†	88.744	89.871	8874.26	4268.88	9.61	4268.87	0.00	
12900.00†	88.744	89.871	8876.45	4368.86	9.83	4368.85	0.00	
13000.00†	88.744	89.871	8878.64	4468.83	10.06	4468.82	0.00	
13100.00†	88.744	89.871	8880.83	4568.81	10.28	4568.80	0.00	
13153.19	88.744	89.871	8882.00	4621.99	10.40	4621.98	0.00	PBHL 660 FNL, 330 FEL



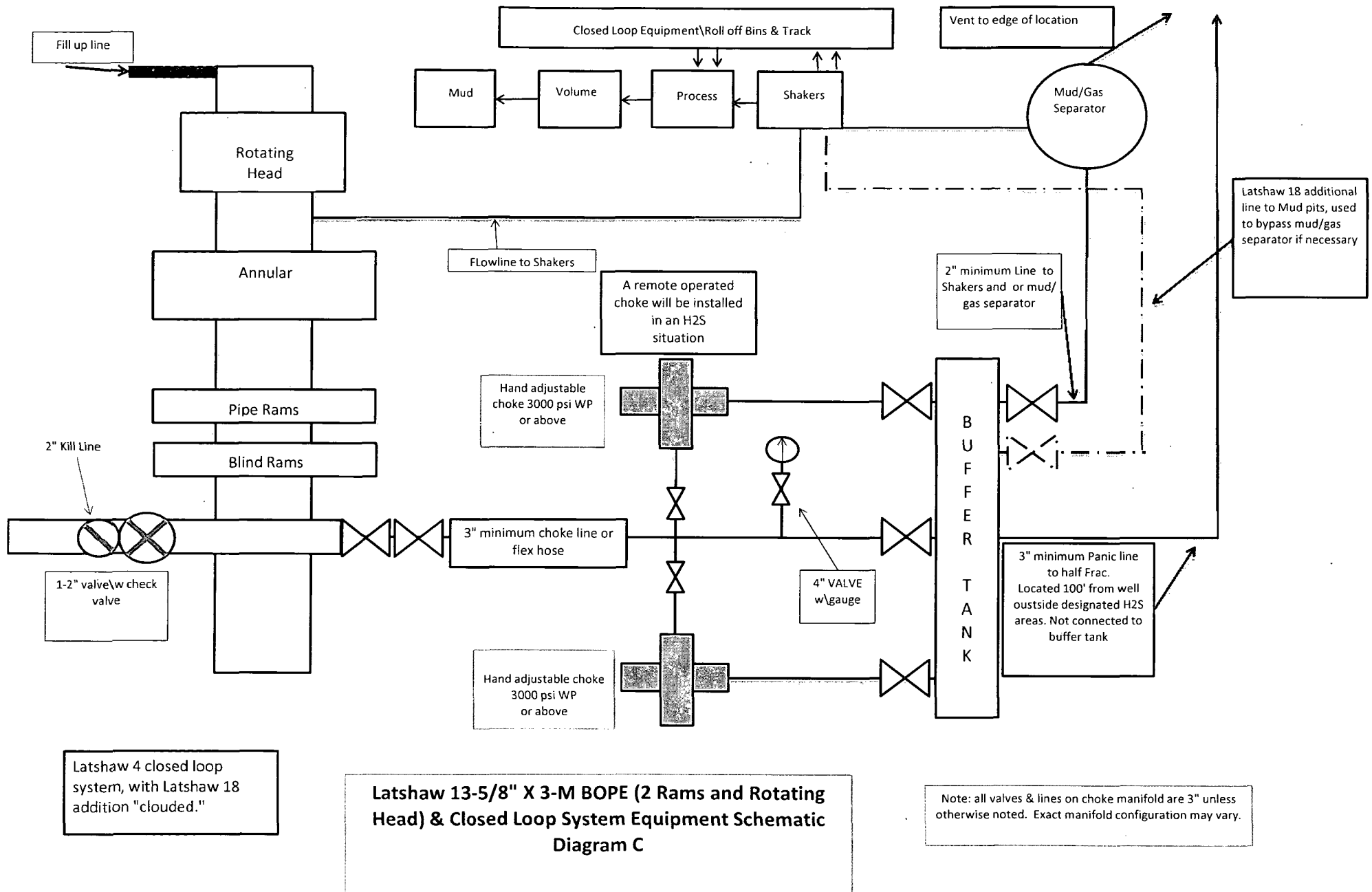
13-5/8" X 3-M BOPE (2 Rams and Rotating Head) & Closed Loop System Equipment Schematic Diagram A

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.

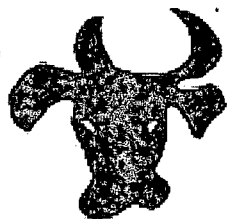
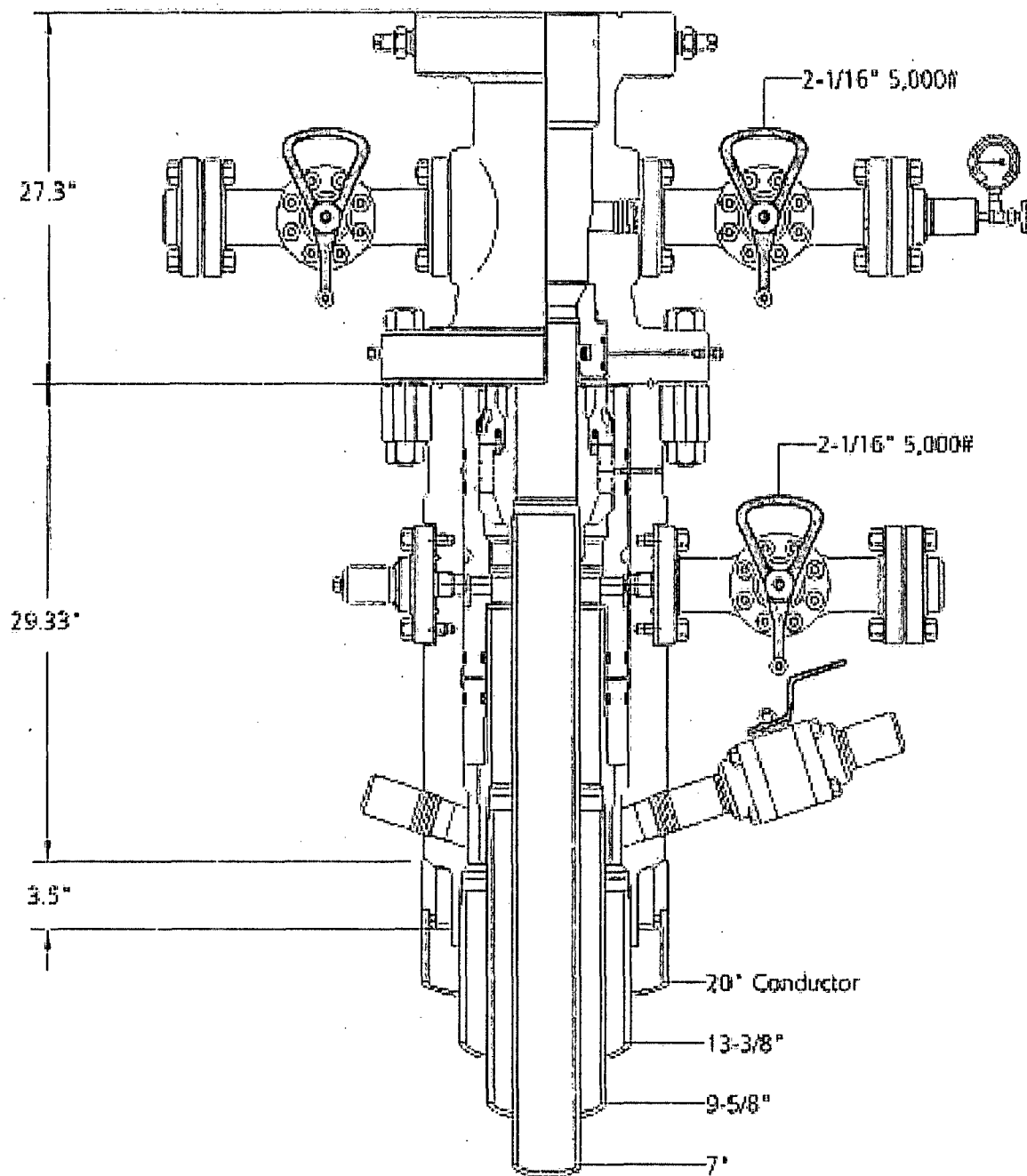


Diagram Z



BOPCO
Project: South East New Mexico

CAMERON

Jeanette

7-22-13

Drawing File No.

#

21077904-A



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

April 4, 2012

Customer: Latshaw

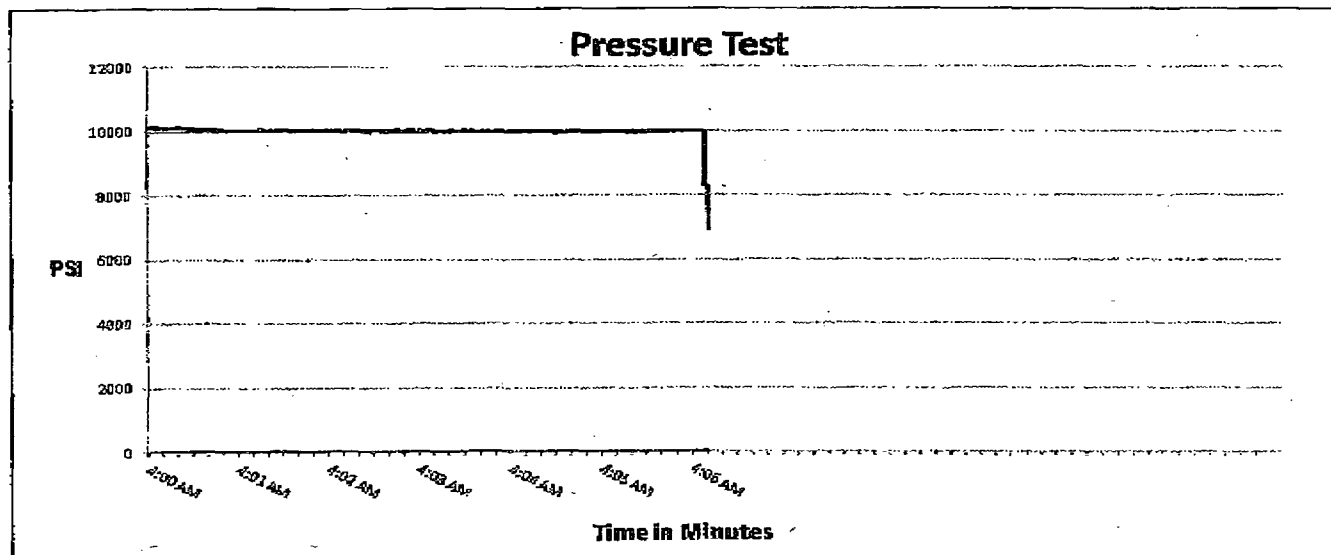
Pick Ticket #: 81610

Hose Specifications

<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 Fittings</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

Donnie Mclemore

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> <table style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">TIME HELD AT TEST PRESSURE</td> <td style="width: 50%; text-align: center;">ACTUAL BURST PRESSURE:</td> </tr> <tr> <td style="text-align: center;">1 MIN.</td> <td style="text-align: center;">0 PSI</td> </tr> </table>				TIME HELD AT TEST PRESSURE	ACTUAL BURST PRESSURE:	1 MIN.	0 PSI
TIME HELD AT TEST PRESSURE	ACTUAL BURST PRESSURE:						
1 MIN.	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 15-42459

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