

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM04557
2. Name of Operator BOPCO LP		6. If Indian, Allottee or Tribe Name
Contact: LESLIE BARNES E-Mail: lbarnes@basspet.com		7. If Unit or CA/Agreement, Name and/or No. 891000326X
3a. Address P O BOX 2760 MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432-221-7341	8. Well Name and No. BIG EDDY UNIT D14 271H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 5 T20S R31E Lot 2 358FNL 2078FEL 32.362722 N Lat, 103.532108 W Lon		9. API Well No. 30-015-42652-00-X1
		10. Field and Pool, or Exploratory WILLIAMS SINK
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resumé)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BOPCO L.P request to change the completion design for the BEU D14 271H from a tapered 4-1/2" X 7" design to a complete string of 4-1/2" casing. BOPCO will run a full string of 4-1/2", 11.60 ppg, HCP-110, BTC casing from total depth at 16,548' to surface. The 4-1/2" string will be cement in

two stages with a DV tool at +/- 5,000' and cement brought to surface. Please see below for casing safety factors and adjusted cement volumes. The updated directional plan is attached.

Casing Safety Factors (MW used for calcs = 8.9 ppg)

Collapse ? 1.81

Burst ? 2.10

Tension ? 4.01

Cement Slurry Info and Volumes -

1st Stage Lead 5,000' ? 8,038' (11.9 ppg, 2.28 ft3/sk) 30% Excess over gauge hole
170 sks

NM OIL CONSERVATION
ARTESIA DISTRICTRED 1/5/2015
Accepted for record
NM OCD

DEC 30 2014

RECEIVED

Cement to surface as proposed

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #286096 verified by the BLM Well Information System For BOPCO LP, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER MASON on 12/22/2014 (15JAM0138SE)	
Name (Printed/Typed) TODD CARPENTER	Title ENGINEERING ASSISTANT
Signature (Electronic Submission)	Date 12/22/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
APPROVED DEC 22 2014 BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE	
Approved By	Title
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional data for EC transaction #286096 that would not fit on the form

32. Additional remarks, continued

1 Stage Tail 8,038? ? 16,548? (14.5 ppg, 1.23 ft3/sk) 30% Excess over gauge hole
850 sks

2nd Stage Lead 0 ? 4,500? (11.9 ppg, 2.28 ft3/sk) 100% Excess over gauge hole
380 sks

2nd Stage Tail 4,500? ? 5,000? (14.8 ppg, 1.33 ft3/sk) 100% Excess over gauge hole
100 sks

Please see attached supporting documentation.

BOPCO L.P request to change the completion design for the BEU D14 271H from a tapered 4-1/2" X 7" design to a complete string of 4-1/2" casing. BOPCO will run a full string of 4-1/2", 11.60 ppg, HCP-110, BTC casing from total depth at 16,548' to surface. The 4-1/2" string will be cement in two stages with a DV tool at +/- 5,000' and cement brought to surface. Please see below for casing safety factors and adjusted cement volumes. The updated directional plan is attached.

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Tension – 4.01

Cement Slurry Info and Volumes -

1st Stage Lead 5,000' – 8,038' (11.9 ppg, 2.28 ft³/sk) 30% Excess over gauge hole

170 sks

1 Stage Tail 8,038' – 16,548' (14.5 ppg, 1.23 ft³/sk) 30% Excess over gauge hole

850 sks

2nd Stage Lead 0 – 4,500' (11.9 ppg, 2.28 ft³/sk) 100% Excess over gauge hole

380 sks

2nd Stage Tail 4,500' – 5,000' (14.8 ppg, 1.33 ft³/sk) 100% Excess over gauge hole

100 sks



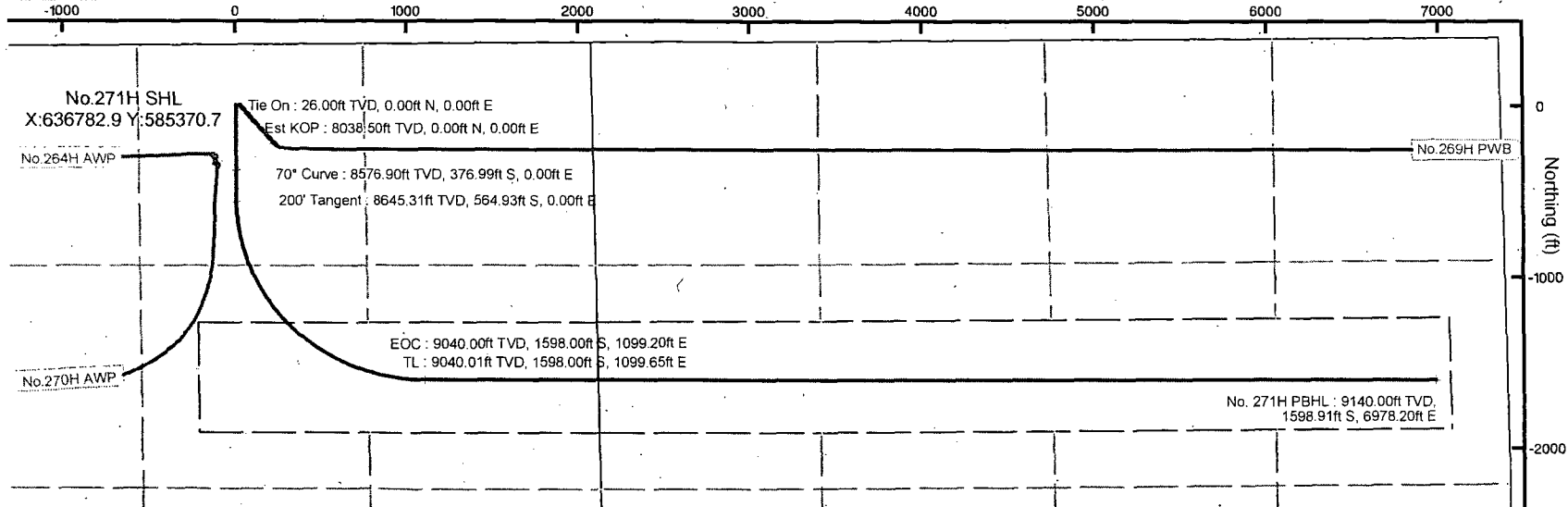
BOPCO, LP

Location: Eddy County, NM
Field: Big Eddy
Facility: Big Eddy Unit DI-4

Slot: No.271H SHL
Well: SL 358 FNL, 2078 FEL
Wellbore: No.271H PWB



Scale 1 inch = 1000 ft



Plot reference wellpath is Rev-E.0

True vertical depths are referenced to Rig on No.271H SHL (KB)

Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet

Measured depths are referenced to Rig on No.271H SHL (KB)

North Reference: Grid north

Rig on No.271H SHL (KB) to Mean Sea Level: 3491 feet

Scale: True distance

Mean Sea Level to Mud line (At Slot No.271H SHL): 0 feet

Depths are in feet

Coordinates are in feet referenced to Slot

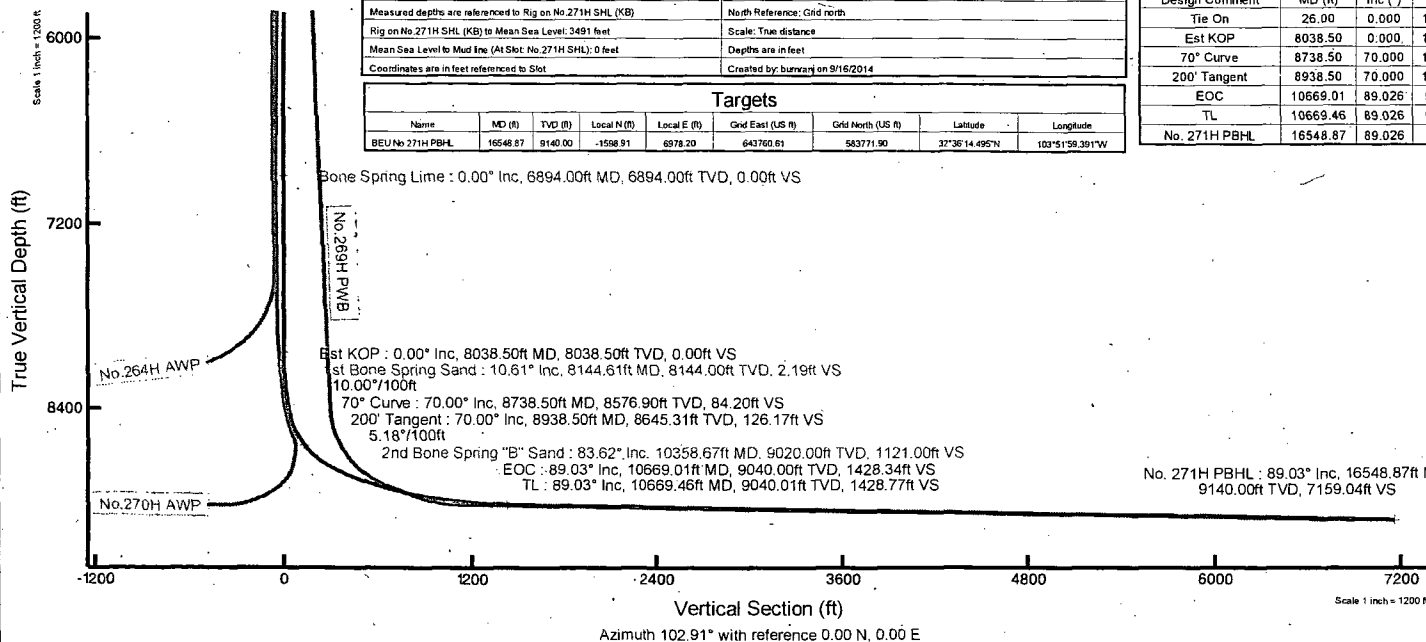
Created by: burman on 9/16/2014

Targets

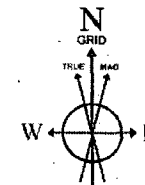
Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
BEU No.271H PBHL	16548.87	9140.00	-1598.91	6978.20	643760.61	583771.90	37°36'14.495"N	103°51'59.391"W

Well Profile Data

Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	26.00	0.000	180.000	26.00	0.00	0.00	0.00	0.00
Est KOP	8038.50	0.000	180.000	8038.50	0.00	0.00	0.00	0.00
70° Curve	8738.50	70.000	180.000	8576.90	-376.99	0.00	10.00	84.20
200' Tangent	8938.50	70.000	180.000	8645.31	-564.93	0.00	0.00	126.17
EOC	10669.01	89.026	90.000	9040.00	-1598.00	1099.20	5.18	1428.34
TL	10669.46	89.026	90.009	9040.01	-1598.00	1099.65	2.00	1428.77
No. 271H PBHL	16548.87	89.026	90.009	9140.00	-1598.91	6978.20	0.00	7159.04



Rev-E.0



BGGM (1945.0 to 2015.0) Dip: 60.41° Field: 48529.2 nT
Magnetic North is 7.56 degrees East of True North (at 1/28/2014)
Grid North is 0.24 degrees East of True North
To correct azimuth from True to Grid subtract 0.24 degrees
To correct azimuth from Magnetic to Grid add 7.32 degrees



Planned Wellpath Report

Rev-E.0
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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	No.271H SHL
Area	Eddy County, NM	Well	SL 358 FNL, 2078 FEL
Field	Big Eddy	Wellbore	No.271H PWB
Facility	Big Eddy Unit DI-4		

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	0.999931	Report Generated	9/16/2014 at 3:17:27 PM
Convergence at slot	0.24° East	Database/Source file	WA_MIDLAND/No.271H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	295.62	-481.03	636782.90	585370.70	32°36'30.611"N	103°53'20.882"W
Facility Reference Pt			637263.90	585075.10	32°36'27.666"N	103°53'15.274"W
Field Reference Pt			610823.03	524402.80	32°26'28.262"N	103°58'26.774"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.271H SHL (KB) to Facility Vertical Datum	3491.00ft
Horizontal Reference Pt	Slot	Rig on No.271H SHL (KB) to Mean Sea Level	3491.00ft
Vertical Reference Pt	Rig on No.271H SHL (KB)	Rig on No.271H SHL (KB) to Mud Line at Slot (No.271H SHL)	3491.00ft
MD Reference Pt	Rig on No.271H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	102.91°



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Field	Big Eddy	Wellbore	No.271H PWB
Facility	Big Eddy Unit DI-4		

WELLPATH DATA (173 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
0.00†	0.000	180.000	0.00	0.00	0.00	0.00	0.00
26.00	0.000	180.000	26.00	0.00	0.00	0.00	0.00
126.00†	0.000	180.000	126.00	0.00	0.00	0.00	0.00
226.00†	0.000	180.000	226.00	0.00	0.00	0.00	0.00
326.00†	0.000	180.000	326.00	0.00	0.00	0.00	0.00
426.00†	0.000	180.000	426.00	0.00	0.00	0.00	0.00
526.00†	0.000	180.000	526.00	0.00	0.00	0.00	0.00
626.00†	0.000	180.000	626.00	0.00	0.00	0.00	0.00
726.00†	0.000	180.000	726.00	0.00	0.00	0.00	0.00
826.00†	0.000	180.000	826.00	0.00	0.00	0.00	0.00
926.00†	0.000	180.000	926.00	0.00	0.00	0.00	0.00
1026.00†	0.000	180.000	1026.00	0.00	0.00	0.00	0.00
1126.00†	0.000	180.000	1126.00	0.00	0.00	0.00	0.00
1226.00†	0.000	180.000	1226.00	0.00	0.00	0.00	0.00
1326.00†	0.000	180.000	1326.00	0.00	0.00	0.00	0.00
1426.00†	0.000	180.000	1426.00	0.00	0.00	0.00	0.00
1526.00†	0.000	180.000	1526.00	0.00	0.00	0.00	0.00
1626.00†	0.000	180.000	1626.00	0.00	0.00	0.00	0.00
1726.00†	0.000	180.000	1726.00	0.00	0.00	0.00	0.00
1826.00†	0.000	180.000	1826.00	0.00	0.00	0.00	0.00
1926.00†	0.000	180.000	1926.00	0.00	0.00	0.00	0.00
2026.00†	0.000	180.000	2026.00	0.00	0.00	0.00	0.00
2126.00†	0.000	180.000	2126.00	0.00	0.00	0.00	0.00
2226.00†	0.000	180.000	2226.00	0.00	0.00	0.00	0.00
2326.00†	0.000	180.000	2326.00	0.00	0.00	0.00	0.00
2426.00†	0.000	180.000	2426.00	0.00	0.00	0.00	0.00
2526.00†	0.000	180.000	2526.00	0.00	0.00	0.00	0.00
2626.00†	0.000	180.000	2626.00	0.00	0.00	0.00	0.00
2726.00†	0.000	180.000	2726.00	0.00	0.00	0.00	0.00
2826.00†	0.000	180.000	2826.00	0.00	0.00	0.00	0.00
2926.00†	0.000	180.000	2926.00	0.00	0.00	0.00	0.00
3026.00†	0.000	180.000	3026.00	0.00	0.00	0.00	0.00
3126.00†	0.000	180.000	3126.00	0.00	0.00	0.00	0.00
3226.00†	0.000	180.000	3226.00	0.00	0.00	0.00	0.00

3326.00†	0.000	180.000	3326.00	0.00	0.00	0.00	0.00
3426.00†	0.000	180.000	3426.00	0.00	0.00	0.00	0.00
3526.00†	0.000	180.000	3526.00	0.00	0.00	0.00	0.00
3626.00†	0.000	180.000	3626.00	0.00	0.00	0.00	0.00
3726.00†	0.000	180.000	3726.00	0.00	0.00	0.00	0.00
3826.00†	0.000	180.000	3826.00	0.00	0.00	0.00	0.00
3926.00†	0.000	180.000	3926.00	0.00	0.00	0.00	0.00
4026.00†	0.000	180.000	4026.00	0.00	0.00	0.00	0.00
4126.00†	0.000	180.000	4126.00	0.00	0.00	0.00	0.00
4226.00†	0.000	180.000	4226.00	0.00	0.00	0.00	0.00
4326.00†	0.000	180.000	4326.00	0.00	0.00	0.00	0.00



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

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Field	Big Eddy	Wellbore	No.271H PWB
Facility	Big Eddy Unit DI-4		

WELLPATH DATA (173 stations) interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
4426.00†	0.000	180.000	4426.00	0.00	0.00	0.00	0.00
4526.00†	0.000	180.000	4526.00	0.00	0.00	0.00	0.00
4626.00†	0.000	180.000	4626.00	0.00	0.00	0.00	0.00
4726.00†	0.000	180.000	4726.00	0.00	0.00	0.00	0.00
4826.00†	0.000	180.000	4826.00	0.00	0.00	0.00	0.00
4926.00†	0.000	180.000	4926.00	0.00	0.00	0.00	0.00
5026.00†	0.000	180.000	5026.00	0.00	0.00	0.00	0.00
5126.00†	0.000	180.000	5126.00	0.00	0.00	0.00	0.00
5226.00†	0.000	180.000	5226.00	0.00	0.00	0.00	0.00
5326.00†	0.000	180.000	5326.00	0.00	0.00	0.00	0.00
5426.00†	0.000	180.000	5426.00	0.00	0.00	0.00	0.00
5526.00†	0.000	180.000	5526.00	0.00	0.00	0.00	0.00
5626.00†	0.000	180.000	5626.00	0.00	0.00	0.00	0.00
5726.00†	0.000	180.000	5726.00	0.00	0.00	0.00	0.00
5826.00†	0.000	180.000	5826.00	0.00	0.00	0.00	0.00
5926.00†	0.000	180.000	5926.00	0.00	0.00	0.00	0.00
6026.00†	0.000	180.000	6026.00	0.00	0.00	0.00	0.00
6126.00†	0.000	180.000	6126.00	0.00	0.00	0.00	0.00
6226.00†	0.000	180.000	6226.00	0.00	0.00	0.00	0.00
6326.00†	0.000	180.000	6326.00	0.00	0.00	0.00	0.00
6426.00†	0.000	180.000	6426.00	0.00	0.00	0.00	0.00
6526.00†	0.000	180.000	6526.00	0.00	0.00	0.00	0.00
6626.00†	0.000	180.000	6626.00	0.00	0.00	0.00	0.00
6726.00†	0.000	180.000	6726.00	0.00	0.00	0.00	0.00
6826.00†	0.000	180.000	6826.00	0.00	0.00	0.00	0.00
6926.00†	0.000	180.000	6926.00	0.00	0.00	0.00	0.00
7026.00†	0.000	180.000	7026.00	0.00	0.00	0.00	0.00
7126.00†	0.000	180.000	7126.00	0.00	0.00	0.00	0.00
7226.00†	0.000	180.000	7226.00	0.00	0.00	0.00	0.00
7326.00†	0.000	180.000	7326.00	0.00	0.00	0.00	0.00
7426.00†	0.000	180.000	7426.00	0.00	0.00	0.00	0.00
7526.00†	0.000	180.000	7526.00	0.00	0.00	0.00	0.00
7626.00†	0.000	180.000	7626.00	0.00	0.00	0.00	0.00
7726.00†	0.000	180.000	7726.00	0.00	0.00	0.00	0.00

7826.00†	0.000	180.000	7826.00	0.00	0.00	0.00	0.00
7926.00†	0.000	180.000	7926.00	0.00	0.00	0.00	0.00
8026.00†	0.000	180.000	8026.00	0.00	0.00	0.00	0.00
8038.50	0.000	180.000	8038.50	0.00	0.00	0.00	0.00
8126.00†	8.750	180.000	8125.66	1.49	-6.67	0.00	10.00
8226.00†	18.750	180.000	8222.67	6.79	-30.41	0.00	10.00
8326.00†	28.750	180.000	8314.09	15.77	-70.63	0.00	10.00
8426.00†	38.750	180.000	8397.13	28.17	-126.12	0.00	10.00
8526.00†	48.750	180.000	8469.27	43.59	-195.18	0.00	10.00
8626.00†	58.750	180.000	8528.33	61.58	-275.72	0.00	10.00
8726.00†	68.750	180.000	8572.50	81.59	-365.30	0.00	10.00



Planned Wellpath Report

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
8738.50	70.000	180.000	8576.90	84.20	-376.99	0.00	10.00
8826.00†	70.000	180.000	8606.83	102.56	-459.22	0.00	0.00
8926.00†	70.000	180.000	8641.03	123.55	-553.19	0.00	0.00
8938.50	70.000	180.000	8645.31	126.17	-564.93	0.00	0.00
9026.00†	69.993	175.175	8675.26	147.89	-647.05	-3.46	5.18
9126.00†	70.145	169.665	8709.37	180.77	-740.20	15.86	5.18
9226.00†	70.465	164.172	8743.09	222.01	-831.86	37.16	5.18
9326.00†	70.950	158.706	8776.15	271.26	-921.29	67.20	5.18
9426.00†	71.596	153.277	8808.28	328.12	-1007.76	105.72	5.18
9526.00†	72.394	147.894	8839.21	392.13	-1090.56	152.41	5.18
9626.00†	73.336	142.562	8868.69	462.76	-1169.02	206.90	5.18
9726.00†	74.413	137.286	8896.49	539.44	-1242.49	268.73	5.18
9826.00†	75.615	132.068	8922.36	621.54	-1310.37	337.40	5.18
9926.00†	76.929	126.908	8946.11	708.38	-1372.11	412.35	5.18
10026.00†	78.345	121.805	8967.53	799.27	-1427.20	492.96	5.18
10126.00†	79.850	116.756	8986.46	893.45	-1475.20	578.59	5.18
10226.00†	81.431	111.754	9002.73	990.15	-1515.71	668.52	5.18
10326.00†	83.075	106.795	9016.22	1088.59	-1548.40	762.02	5.18
10426.00†	84.771	101.871	9026.81	1187.97	-1573.00	858.33	5.18
10526.00†	86.505	96.974	9034.42	1287.46	-1589.32	956.66	5.18
10626.00†	88.265	92.095	9038.98	1386.25	-1597.21	1056.21	5.18
10669.01	89.026	90.000	9040.00	1428.34	-1598.00	1099.20	5.18
10669.46	89.026	90.009	9040.01	1428.77	-1598.00	1099.65	2.00
10726.00†	89.026	90.009	9040.97	1483.88	-1598.00	1156.18	0.00
10826.00†	89.026	90.009	9042.67	1581.34	-1598.02	1256.17	0.00
10926.00†	89.026	90.009	9044.37	1678.80	-1598.04	1356.15	0.00
11026.00†	89.026	90.009	9046.07	1776.27	-1598.05	1456.14	0.00
11126.00†	89.026	90.009	9047.77	1873.73	-1598.07	1556.12	0.00
11226.00†	89.026	90.009	9049.47	1971.19	-1598.08	1656.11	0.00
11326.00†	89.026	90.009	9051.17	2068.66	-1598.10	1756.09	0.00
11426.00†	89.026	90.009	9052.87	2166.12	-1598.11	1856.08	0.00
11526.00†	89.026	90.009	9054.57	2263.58	-1598.13	1956.06	0.00
11626.00†	89.026	90.009	9056.28	2361.05	-1598.14	2056.05	0.00
11726.00†	89.026	90.009	9057.98	2458.51	-1598.16	2156.04	0.00

11826.00†	89.026	90.009	9059.68	2555.97	-1598.18	2256.02	0.00
11926.00†	89.026	90.009	9061.38	2653.44	-1598.19	2356.01	0.00
12026.00†	89.026	90.009	9063.08	2750.90	-1598.21	2455.99	0.00
12126.00†	89.026	90.009	9064.78	2848.36	-1598.22	2555.98	0.00
12226.00†	89.026	90.009	9066.48	2945.83	-1598.24	2655.96	0.00
12326.00†	89.026	90.009	9068.18	3043.29	-1598.25	2755.95	0.00
12426.00†	89.026	90.009	9069.88	3140.75	-1598.27	2855.93	0.00
12526.00†	89.026	90.009	9071.58	3238.22	-1598.28	2955.92	0.00
12626.00†	89.026	90.009	9073.28	3335.68	-1598.30	3055.91	0.00
12726.00†	89.026	90.009	9074.98	3433.14	-1598.32	3155.89	0.00
12826.00†	89.026	90.009	9076.68	3530.61	-1598.33	3255.88	0.00



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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	No.271H SHL
Area	Eddy County, NM	Well	SL 358 FNL, 2078 FEL
Field	Big Eddy	Wellbore	No.271H PWB
Facility	Big Eddy Unit DI-4		

WELLPATH DATA (173 stations) = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
12926.00†	89.026	90.009	9078.39	3628.07	-1598.35	3355.86	0.00
13026.00†	89.026	90.009	9080.09	3725.53	-1598.36	3455.85	0.00
13126.00†	89.026	90.009	9081.79	3823.00	-1598.38	3555.83	0.00
13226.00†	89.026	90.009	9083.49	3920.46	-1598.39	3655.82	0.00
13326.00†	89.026	90.009	9085.19	4017.93	-1598.41	3755.80	0.00
13426.00†	89.026	90.009	9086.89	4115.39	-1598.42	3855.79	0.00
13526.00†	89.026	90.009	9088.59	4212.85	-1598.44	3955.78	0.00
13626.00†	89.026	90.009	9090.29	4310.32	-1598.46	4055.76	0.00
13726.00†	89.026	90.009	9091.99	4407.78	-1598.47	4155.75	0.00
13826.00†	89.026	90.009	9093.69	4505.24	-1598.49	4255.73	0.00
13926.00†	89.026	90.009	9095.39	4602.71	-1598.50	4355.72	0.00
14026.00†	89.026	90.009	9097.09	4700.17	-1598.52	4455.70	0.00
14126.00†	89.026	90.009	9098.79	4797.63	-1598.53	4555.69	0.00
14226.00†	89.026	90.009	9100.49	4895.10	-1598.55	4655.67	0.00
14326.00†	89.026	90.009	9102.20	4992.56	-1598.57	4755.66	0.00
14426.00†	89.026	90.009	9103.90	5090.02	-1598.58	4855.65	0.00
14526.00†	89.026	90.009	9105.60	5187.49	-1598.60	4955.63	0.00
14626.00†	89.026	90.009	9107.30	5284.95	-1598.61	5055.62	0.00
14726.00†	89.026	90.009	9109.00	5382.41	-1598.63	5155.60	0.00
14826.00†	89.026	90.009	9110.70	5479.88	-1598.64	5255.59	0.00
14926.00†	89.026	90.009	9112.40	5577.34	-1598.66	5355.57	0.00
15026.00†	89.026	90.009	9114.10	5674.80	-1598.67	5455.56	0.00
15126.00†	89.026	90.009	9115.80	5772.27	-1598.69	5555.54	0.00
15226.00†	89.026	90.009	9117.50	5869.73	-1598.71	5655.53	0.00
15326.00†	89.026	90.009	9119.20	5967.19	-1598.72	5755.52	0.00
15426.00†	89.026	90.009	9120.90	6064.66	-1598.74	5855.50	0.00
15526.00†	89.026	90.009	9122.60	6162.12	-1598.75	5955.49	0.00
15626.00†	89.026	90.009	9124.30	6259.58	-1598.77	6055.47	0.00
15726.00†	89.026	90.009	9126.01	6357.05	-1598.78	6155.46	0.00
15826.00†	89.026	90.009	9127.71	6454.51	-1598.80	6255.44	0.00
15926.00†	89.026	90.009	9129.41	6551.97	-1598.81	6355.43	0.00
16026.00†	89.026	90.009	9131.11	6649.44	-1598.83	6455.41	0.00
16126.00†	89.026	90.009	9132.81	6746.90	-1598.85	6555.40	0.00
16226.00†	89.026	90.009	9134.51	6844.36	-1598.86	6655.39	0.00

16326.00†	89.026	90.009	9136.21	6941.83	-1598.88	6755.37	0.00
16426.00†	89.026	90.009	9137.91	7039.29	-1598.89	6855.36	0.00
16526.00†	89.026	90.009	9139.61	7136.75	-1598.91	6955.34	0.00
16548.87	89.026	90.009	9140.00	7159.04	-1598.91	6978.20	0.00



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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	No.271H SHL
Area	Eddy County, NM	Well	SL 358 FNL, 2078 FEL
Field	Big Eddy	Wellbore	No.271H PWB
Facility	Big Eddy Unit DI-4		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) BEU No.271H PBHL	16548.87	9140.00	1598.91	6978.20	643760.61	583771.90	32°36'14.495"N	103°51'59.391"W	point

SURVEY PROGRAM - Ref Wellbore: No.271H PWB - Ref Wellpath: Rev-E.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	600.00	Generic gyro - northseeking (Standard)		No.271H PWB
600.00	16548.87	NaviTrak (Standard)		No.271H PWB