

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

5. Lease Serial No.

LC 067964

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Big Eddy Unit #38H

9. API Well No.

30-015-20940

10. Field and Pool, or Exploratory Area

NMNM 68294X

11. County or Parish, State

Eddy Co, NM

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

BOPCO, L. P.

3a. Address

P. O. Box 2760 Midland, TX 79702

3b. Phone No. (include area code)

432-683-2277

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SL: 660' FNL, 1980' FWL, Sec 34, T21S, R29E

BHL: 350' FSL, 1,980' FWL, Sec 35, T21S, R29E

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

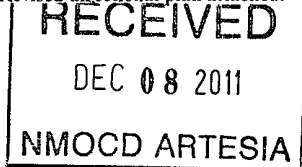
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☒ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
	☒ Change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

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 recompleat 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. respectfully requests approval to alter the BHL from the approved footages of 1,200' FSL, 1,990' FWL, Sec 35, T21S, R29E. The draining acreage (proration units) has increased from 440 acres to 480 acres.

The original planned total depth of the well was 12,897' MD (7,014' TVD) with the DV tool set at 7,193' MD (6,880' TVD). The new total depth of the well will be 14,372' MD (7,058' TVD). The 5-1/2" packer system will be extended out and set at this depth with the DV tool remaining at the planned depth of 7,193' MD (6,880' TVD).

Revised directional plan attached.

New plat required.
Accepted for record
NMOC D

10/12/11

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Christopher Giese

Title Drilling Engineer

Signature

Date 11/14/11

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

Title

Office

DEC 7 2011

WESLEY W. INGRAM
PETROLEUM ENGINEER

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.

(Instructions on page 2)

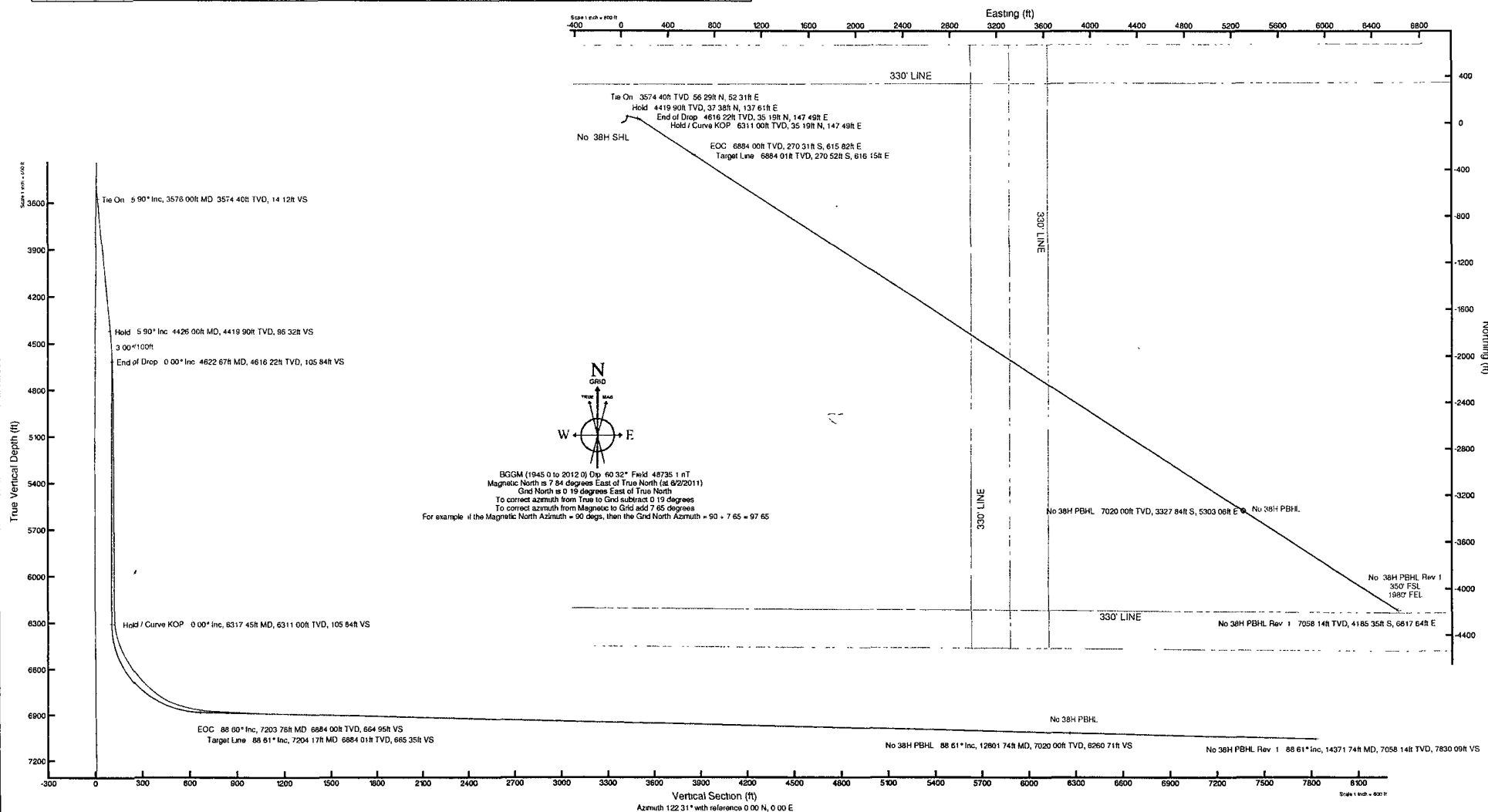


Slot.	No 38H SHL
Well.	No 38H
Wellbore	No 38H PWB



Well Profile Data								
Design Comment	MD (ft)	Inc. (°)	Az. (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*100ft)	VS (ft)
Tie On	3575.00	5.900	102.500	3574.40	56.29	52.31	0.00	14.12
Hold	4426.00	5.900	102.500	4419.90	37.38	137.61	0.00	96.32
End of Drop	4622.67	0.000	123.117	4616.22	35.19	147.49	3.00	105.64
Hold / Curve KOP	6317.45	0.000	123.117	6311.00	35.19	147.49	0.00	105.64
EOC	7269.76	86.606	123.117	5884.06	270.31	615.82	10.00	564.95
Target Layer	7264.17	86.606	123.117	5884.01	-270.52	615.81	2.00	565.35
No. 34H PBHL	12801.74	88.608	123.117	7020.00	-3327.84	5303.06	0.00	6260.71
Min VSH/RIHL Ref L	14371.74	88.608	123.117	7058.14	-4165.35	5617.64	0.00	7630.00

Plot reference wellpath is Plan #1 (Ext Lat Prelim)	
True vertical depths are referenced to Rig on No. 38H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 38H SHL (KB)	North Reference: Grid north
Rig on No. 38H SHL (KB) to Mean Sea Level: 3450 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No. 38H SHL) - 3428 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: msherry on 11/14/2011





Planned Wellpath Report

Plan #1 (Ext Lat Prelim)

Page 1 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 38H SHL
Area	Eddy County, NM	Well	No.38H
Field	(Big Eddy) Sec 34, T21S, R29E	Wellbore	No.38H PWB
Facility	Big Eddy Unit No. 38H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.999923	Report Generated	11/14/2011 at 1:15:30 PM
Convergence at slot	0.19° East	Database/Source file	WellArchitect_DB/No.38H_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	610823.03	524402.80	32°26'28.262"N	103°58'26.774"W
Facility Reference Pt			610823.03	524402.80	32°26'28.262"N	103°58'26.774"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. 38H SHL (KB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Rig on No. 38H SHL (KB) to Mean Sea Level	3450.00ft
Vertical Reference Pt	Rig on No. 38H SHL (KB)	Rig on No. 38H SHL (KB) to Mud Line at Slot (No. 38H SHL)	22.00ft
MD Reference Pt	Rig on No. 38H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	122.31°



Planned Wellpath Report

Plan #1 (Ext Lat Prelim)

Page 2 of 6



BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 38H SHL
Area	Eddy County, NM	Well	No.38H
Field	(Big Eddy) Sec 34, T21S, R29E	Wellbore	No.38H PWB
Facility	Big Eddy Unit No. 38H		

WELLPATH DATA (161 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	84.670	0.00	0.00	0.00	0.00	610823.03	524402.80	32°26'28.262"N	103°58'26.774"W	0.00	
22.00	0.000	84.670	22.00	0.00	0.00	0.00	610823.03	524402.80	32°26'28.262"N	103°58'26.774"W	0.00	
100.00	0.450	84.670	100.00	0.24	0.03	0.30	610823.34	524402.83	32°26'28.262"N	103°58'26.770"W	0.58	
200.00	0.590	107.830	200.00	1.05	-0.09	1.19	610824.22	524402.71	32°26'28.261"N	103°58'26.760"W	0.25	
300.00	0.260	182.450	299.99	1.66	-0.48	1.67	610824.70	524402.38	32°26'28.257"N	103°58'26.755"W	0.58	
306.01†	0.249	179.314	306.00	1.68	-0.50	1.67	610824.70	524402.30	32°26'28.257"N	103°58'26.755"W	0.29	T/Rushter
400.00	0.240	111.300	399.99	1.98	-0.78	1.85	610824.88	524402.02	32°26'28.254"N	103°58'26.752"W	0.29	
500.00	0.330	18.640	499.99	2.12	-0.58	2.14	610825.17	524402.22	32°26'28.256"N	103°58'26.749"W	0.42	
586.01†	0.821	52.345	586.00	2.27	0.03	2.71	610825.74	524402.83	32°26'28.262"N	103°58'26.742"W	0.67	T/Salt
600.00	0.910	54.220	599.99	2.35	0.15	2.88	610825.91	524402.96	32°26'28.264"N	103°58'26.740"W	0.67	
700.00	1.290	37.000	699.97	2.74	1.52	4.20	610827.23	524404.32	32°26'28.277"N	103°58'26.725"W	0.50	
800.00	1.490	64.210	799.94	3.52	2.98	6.05	610829.08	524405.78	32°26'28.291"N	103°58'26.703"W	0.68	
900.00	1.560	68.000	899.90	5.00	4.06	8.48	610831.51	524406.86	32°26'28.302"N	103°58'26.675"W	0.12	
1000.00	1.790	63.300	999.86	6.59	5.27	11.14	610834.17	524408.07	32°26'28.314"N	103°58'26.644"W	0.27	
1100.00	1.930	60.500	1099.81	8.19	6.80	14.00	610837.03	524409.60	32°26'28.329"N	103°58'26.610"W	0.17	
1200.00	1.910	66.760	1199.75	9.93	8.29	16.99	610840.02	524411.09	32°26'28.344"N	103°58'26.575"W	0.21	
1300.00	1.970	67.780	1299.69	11.87	9.59	20.12	610843.15	524412.40	32°26'28.356"N	103°58'26.539"W	0.07	
1400.00	1.970	74.900	1399.64	14.03	10.69	23.37	610846.40	524413.49	32°26'28.367"N	103°58'26.501"W	0.24	
1500.00	1.810	70.810	1499.58	16.18	11.66	26.52	610849.55	524414.46	32°26'28.377"N	103°58'26.464"W	0.21	
1600.00	1.610	74.460	1599.54	18.10	12.55	29.36	610852.39	524415.36	32°26'28.385"N	103°58'26.431"W	0.23	
1700.00	1.490	60.320	1699.50	19.66	13.57	31.85	610854.87	524416.38	32°26'28.395"N	103°58'26.402"W	0.40	
1800.00	0.790	73.510	1799.48	20.72	14.41	33.64	610856.66	524417.22	32°26'28.404"N	103°58'26.381"W	0.74	
1900.00	0.130	53.270	1899.48	21.22	14.68	34.39	610857.42	524417.48	32°26'28.406"N	103°58'26.372"W	0.67	
2000.00	0.670	3.410	1999.47	20.98	15.33	34.51	610857.54	524418.13	32°26'28.413"N	103°58'26.371"W	0.59	
2100.00	1.140	23.750	2099.46	20.54	16.82	34.95	610857.98	524419.63	32°26'28.427"N	103°58'26.366"W	0.56	
2200.00	1.820	24.220	2199.43	20.17	19.18	36.00	610859.03	524421.98	32°26'28.451"N	103°58'26.353"W	0.68	
2300.00	2.060	22.170	2299.37	19.63	22.29	37.33	610860.36	524425.10	32°26'28.481"N	103°58'26.338"W	0.25	
2400.00	2.280	33.530	2399.30	19.36	25.62	39.11	610862.14	524428.42	32°26'28.514"N	103°58'26.317"W	0.48	
2500.00	2.560	15.800	2499.21	18.77	29.42	40.81	610863.84	524432.23	32°26'28.552"N	103°58'26.297"W	0.80	
2600.00	2.590	17.070	2599.11	17.54	33.73	42.09	610865.11	524436.53	32°26'28.595"N	103°58'26.282"W	0.06	
2680.97†	2.388	7.849	2680.00	16.36	37.15	42.85	610865.88	524439.95	32°26'28.628"N	103°58'26.272"W	0.55	B/Salt
2700.00	2.350	5.470	2699.02	16.02	37.93	42.94	610865.97	524440.73	32°26'28.636"N	103°58'26.271"W	0.55	
2800.00	2.270	15.890	2798.94	14.53	41.88	43.68	610866.71	524444.68	32°26'28.675"N	103°58'26.263"W	0.43	
2900.00	2.150	5.100	2898.86	13.11	45.65	44.39	610867.42	524448.45	32°26'28.712"N	103°58'26.254"W	0.43	
3000.00	1.060	357.770	2998.82	11.73	48.45	44.52	610867.55	524451.24	32°26'28.740"N	103°58'26.253"W	1.11	
3100.00	1.060	2.820	3098.80	10.75	50.29	44.53	610867.56	524453.09	32°26'28.758"N	103°58'26.252"W	0.09	
3200.00	1.170	353.080	3198.79	9.65	52.23	44.45	610867.48	524455.03	32°26'28.777"N	103°58'26.253"W	0.22	
3278.23†	1.371	346.390	3277.00	8.47	53.93	44.14	610867.17	524456.73	32°26'28.794"N	103°58'26.257"W	0.32	T/Delaware
3300.00	1.430	344.870	3298.76	8.09	54.45	44.01	610867.03	524457.25	32°26'28.799"N	103°58'26.258"W	0.32	
3349.25†	1.162	347.501	3348.00	7.28	55.53	43.74	610866.77	524458.33	32°26'28.810"N	103°58'26.261"W	0.56	T/Bell Canyon
3400.00	0.890	351.860	3398.74	6.66	56.42	43.57	610866.60	524459.22	32°26'28.819"N	103°58'26.263"W	0.56	
3480.00	2.100	77.000	3478.72	7.29	57.37	44.91	610867.94	524460.17	32°26'28.828"N	103°58'26.248"W	2.76	
3512.00	4.000	95.300	3510.67	8.70	57.40	46.59	610869.62	524460.19	32°26'28.829"N	103°58'26.228"W	6.60	
3544.00	5.500	102.100	3542.56	11.13	56.97	49.20	610872.23	524459.77	32°26'28.824"N	103°58'26.198"W	5.00	
3576.00	5.900	102.500	3574.40	14.12	56.29	52.31	610875.34	524459.09	32°26'28.817"N	103°58'26.161"W	0.00	Tie On



Planned Wellpath Report

Plan #1 (Ext Lat Prelim)

Page 3 of 6



**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 38H SHL
Area	Eddy County, NM	Well	No.38H
Field	(Big Eddy) Sec 34, T21S, R29E	Wellbore	No.38H PWB
Facility	Big Eddy Unit No. 38H		

WELLPATH DATA (161 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
3676.00†	5.900	102.500	3673.87	23.79	54.07	62.34	610885.37	524456.87	32°26'28.795"N	103°58'26.044"W	0.00	
3776.00†	5.900	102.500	3773.34	33.46	51.84	72.38	610895.41	524454.64	32°26'28.773"N	103°58'25.927"W	0.00	
3876.00†	5.900	102.500	3872.81	43.13	49.62	82.42	610905.44	524452.42	32°26'28.750"N	103°58'25.810"W	0.00	
3976.00†	5.900	102.500	3972.28	52.80	47.39	92.45	610915.48	524450.19	32°26'28.728"N	103°58'25.693"W	0.00	
4076.00†	5.900	102.500	4071.75	62.47	45.17	102.49	610925.51	524447.97	32°26'28.706"N	103°58'25.576"W	0.00	
4176.00†	5.900	102.500	4171.22	72.14	42.95	112.52	610935.55	524445.74	32°26'28.683"N	103°58'25.459"W	0.00	
4276.00†	5.900	102.500	4270.69	81.81	40.72	122.56	610945.58	524443.52	32°26'28.661"N	103°58'25.342"W	0.00	
4376.00†	5.900	102.500	4370.16	91.49	38.50	132.59	610955.61	524441.30	32°26'28.639"N	103°58'25.225"W	0.00	
4426.00	5.900	102.500	4419.90	96.32	37.38	137.61	610960.63	524440.18	32°26'28.627"N	103°58'25.167"W	0.00	Hold
4476.00†	4.400	102.500	4469.70	100.54	36.41	141.99	610965.01	524439.21	32°26'28.618"N	103°58'25.116"W	3.00	
4576.00†	1.400	102.500	4569.56	105.30	35.32	146.93	610969.95	524438.12	32°26'28.607"N	103°58'25.058"W	3.00	
4622.67	0.000	123.117	4616.22	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	3.00	End of Drop
4676.00†	0.000	123.117	4669.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
4776.00†	0.000	123.117	4769.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
4876.00†	0.000	123.117	4869.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
4976.00†	0.000	123.117	4969.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
5076.00†	0.000	123.117	5069.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
5176.00†	0.000	123.117	5169.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
5276.00†	0.000	123.117	5269.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
5376.00†	0.000	123.117	5369.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
5476.00†	0.000	123.117	5469.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
5576.00†	0.000	123.117	5569.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
5676.00†	0.000	123.117	5669.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
5776.00†	0.000	123.117	5769.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
5876.00†	0.000	123.117	5869.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
5976.00†	0.000	123.117	5969.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
6076.00†	0.000	123.117	6069.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
6176.00†	0.000	123.117	6169.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
6276.00†	0.000	123.117	6269.55	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	
6317.45	0.000	123.117	6311.00	105.84	35.19	147.49	610970.51	524437.99	32°26'28.605"N	103°58'25.052"W	0.00	Hold / Curve KOP
6376.00†	5.853	123.117	6369.45	108.83	33.56	149.99	610973.01	524436.36	32°26'28.589"N	103°58'25.023"W	10.00	
6476.00†	15.849	123.117	6467.54	127.63	23.29	165.74	610988.76	524426.09	32°26'28.487"N	103°58'24.839"W	10.00	
6576.00†	25.846	123.117	6560.87	163.17	3.87	195.51	611018.52	524406.67	32°26'28.294"N	103°58'24.493"W	10.00	
6676.00†	35.842	123.117	6646.62	214.37	-24.11	238.40	611061.41	524378.70	32°26'28.016"N	103°58'23.993"W	10.00	
6750.48†	43.287	123.117	6704.00	261.77	-50.01	278.10	611101.11	524352.80	32°26'27.758"N	103°58'23.531"W	10.00	T/Lower Brushy Canyon
6776.00†	45.838	123.117	6722.18	279.67	-59.79	293.10	611116.11	524343.02	32°26'27.661"N	103°58'23.356"W	10.00	
6876.00†	55.834	123.117	6785.25	357.10	-102.10	357.95	611180.96	524300.71	32°26'27.240"N	103°58'22.601"W	10.00	
6952.79†	63.511	123.117	6824.00	423.33	-138.29	413.43	611236.43	524264.53	32°26'26.880"N	103°58'21.955"W	10.00	T/LBC Marker 1
6976.00†	65.831	123.117	6833.93	444.30	-149.74	431.00	611254.00	524253.07	32°26'26.766"N	103°58'21.751"W	10.00	
7076.00†	75.827	123.117	6866.72	538.63	-201.28	510.01	611333.00	524201.54	32°26'26.253"N	103°58'20.831"W	10.00	
7176.00†	85.823	123.117	6882.65	637.21	-255.15	592.59	611415.57	524147.67	32°26'25.718"N	103°58'19.870"W	10.00	
7203.78	88.600	123.117	6884.00	664.95	-270.31	615.82	611438.81	524132.52	32°26'25.567"N	103°58'19.599"W	10.00	EOC
7204.17	88.608	123.117	6884.01	665.35	-270.52	616.15	611439.14	524132.30	32°26'25.565"N	103°58'19.595"W	2.00	Target Line
7276.00†	88.608	123.117	6885.75	737.15	-309.76	676.30	611499.27	524093.07	32°26'25.175"N	103°58'18.895"W	0.00	
7376.00†	88.608	123.117	6888.18	837.11	-364.37	760.03	611583.00	524038.46	32°26'24.631"N	103°58'17.920"W	0.00	



Planned Wellpath Report

Plan #1 (Ext Lat Prelim)

Page 4 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 38H SHL
Area	Eddy County, NM	Well	No.38H
Field	(Big Eddy) Sec 34, T21S, R29E	Wellbore	No.38H PWB
Facility	Big Eddy Unit No. 38H		

WELLPATH DATA (161 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
7476.00†	88.608	123.117	6890.61	937.07	-418.99	843.76	611666.72	523983.84	32°26'24.088"N	103°58'16.945"W	0.00	
7576.00†	88.608	123.117	6893.04	1037.03	-473.61	927.49	611750.45	523929.23	32°26'23.545"N	103°58'15.971"W	0.00	
7676.00†	88.608	123.117	6895.47	1136.99	-528.23	1011.22	611834.17	523874.61	32°26'23.001"N	103°58'14.996"W	0.00	
7776.00†	88.608	123.117	6897.90	1236.95	-582.85	1094.95	611917.90	523820.00	32°26'22.458"N	103°58'14.021"W	0.00	
7876.00†	88.608	123.117	6900.33	1336.91	-637.47	1178.68	612001.62	523765.39	32°26'21.915"N	103°58'13.046"W	0.00	
7976.00†	88.608	123.117	6902.76	1436.87	-692.09	1262.41	612085.35	523710.77	32°26'21.372"N	103°58'12.071"W	0.00	
8076.00†	88.608	123.117	6905.19	1536.83	-746.70	1346.14	612169.07	523656.16	32°26'20.828"N	103°58'11.097"W	0.00	
8176.00†	88.608	123.117	6907.62	1636.79	-801.32	1429.88	612252.79	523601.54	32°26'20.285"N	103°58'10.122"W	0.00	
8276.00†	88.608	123.117	6910.05	1736.75	-855.94	1513.61	612336.52	523546.93	32°26'19.742"N	103°58'09.147"W	0.00	
8376.00†	88.608	123.117	6912.48	1836.71	-910.56	1597.34	612420.24	523492.31	32°26'19.199"N	103°58'08.172"W	0.00	
8476.00†	88.608	123.117	6914.91	1936.67	-965.18	1681.07	612503.97	523437.70	32°26'18.655"N	103°58'07.197"W	0.00	
8576.00†	88.608	123.117	6917.34	2036.63	-1019.80	1764.80	612587.69	523383.09	32°26'18.112"N	103°58'06.223"W	0.00	
8676.00†	88.608	123.117	6919.77	2136.59	-1074.42	1848.53	612671.42	523328.47	32°26'17.569"N	103°58'05.248"W	0.00	
8776.00†	88.608	123.117	6922.20	2236.55	-1129.03	1932.26	612755.14	523273.86	32°26'17.025"N	103°58'04.273"W	0.00	
8876.00†	88.608	123.117	6924.63	2336.51	-1183.65	2015.99	612838.87	523219.24	32°26'16.482"N	103°58'03.298"W	0.00	
8976.00†	88.608	123.117	6927.06	2436.48	-1238.27	2099.72	612922.59	523164.63	32°26'15.939"N	103°58'02.324"W	0.00	
9076.00†	88.608	123.117	6929.48	2536.44	-1292.89	2183.46	613006.32	523110.01	32°26'15.396"N	103°58'01.349"W	0.00	
9176.00†	88.608	123.117	6931.91	2636.40	-1347.51	2267.19	613090.04	523055.40	32°26'14.852"N	103°58'00.374"W	0.00	
9276.00†	88.608	123.117	6934.34	2736.36	-1402.13	2350.92	613173.76	523000.79	32°26'14.309"N	103°57'59.399"W	0.00	
9376.00†	88.608	123.117	6936.77	2836.32	-1456.75	2434.65	613257.49	522946.17	32°26'13.766"N	103°57'58.424"W	0.00	
9476.00†	88.608	123.117	6939.20	2936.28	-1511.37	2518.38	613341.21	522891.56	32°26'13.222"N	103°57'57.450"W	0.00	
9576.00†	88.608	123.117	6941.63	3036.24	-1565.98	2602.11	613424.94	522836.94	32°26'12.679"N	103°57'56.475"W	0.00	
9676.00†	88.608	123.117	6944.06	3136.20	-1620.60	2685.84	613508.66	522782.33	32°26'12.136"N	103°57'55.500"W	0.00	
9776.00†	88.608	123.117	6946.49	3236.16	-1675.22	2769.57	613592.39	522727.71	32°26'11.592"N	103°57'54.526"W	0.00	
9876.00†	88.608	123.117	6948.92	3336.12	-1729.84	2853.30	613676.11	522673.10	32°26'11.049"N	103°57'53.551"W	0.00	
9976.00†	88.608	123.117	6951.35	3436.08	-1784.46	2937.04	613759.84	522618.48	32°26'10.506"N	103°57'52.576"W	0.00	
10076.00†	88.608	123.117	6953.78	3536.04	-1839.08	3020.77	613843.56	522563.87	32°26'09.962"N	103°57'51.601"W	0.00	
10176.00†	88.608	123.117	6956.21	3636.00	-1893.70	3104.50	613927.29	522509.26	32°26'09.419"N	103°57'50.627"W	0.00	
10276.00†	88.608	123.117	6958.64	3735.96	-1948.31	3188.23	614011.01	522454.64	32°26'08.876"N	103°57'49.652"W	0.00	
10376.00†	88.608	123.117	6961.07	3835.92	-2002.93	3271.96	614094.73	522400.03	32°26'08.332"N	103°57'48.677"W	0.00	
10476.00†	88.608	123.117	6963.50	3935.88	-2057.55	3355.69	614178.46	522345.41	32°26'07.789"N	103°57'47.702"W	0.00	
10576.00†	88.608	123.117	6965.93	4035.85	-2112.17	3439.42	614262.18	522290.80	32°26'07.246"N	103°57'46.728"W	0.00	
10676.00†	88.608	123.117	6968.36	4135.81	-2166.79	3523.15	614345.91	522236.18	32°26'06.703"N	103°57'45.753"W	0.00	
10776.00†	88.608	123.117	6970.79	4235.77	-2221.41	3606.88	614429.63	522181.57	32°26'06.159"N	103°57'44.778"W	0.00	
10876.00†	88.608	123.117	6973.21	4335.73	-2276.03	3690.62	614513.36	522126.96	32°26'05.616"N	103°57'43.804"W	0.00	
10976.00†	88.608	123.117	6975.64	4435.69	-2330.65	3774.35	614597.08	522072.34	32°26'05.073"N	103°57'42.829"W	0.00	
11076.00†	88.608	123.117	6978.07	4535.65	-2385.26	3858.08	614680.81	522017.73	32°26'04.529"N	103°57'41.854"W	0.00	
11176.00†	88.608	123.117	6980.50	4635.61	-2439.88	3941.81	614764.53	521963.11	32°26'03.986"N	103°57'40.879"W	0.00	
11276.00†	88.608	123.117	6982.93	4735.57	-2494.50	4025.54	614848.25	521908.50	32°26'03.442"N	103°57'39.905"W	0.00	
11376.00†	88.608	123.117	6985.36	4835.53	-2549.12	4109.27	614931.98	521853.88	32°26'02.899"N	103°57'38.930"W	0.00	
11476.00†	88.608	123.117	6987.79	4935.49	-2603.74	4193.00	615015.70	521799.27	32°26'02.356"N	103°57'37.955"W	0.00	
11576.00†	88.608	123.117	6990.22	5035.45	-2658.36	4276.73	615099.43	521744.66	32°26'01.812"N	103°57'36.981"W	0.00	
11676.00†	88.608	123.117	6992.65	5135.41	-2712.98	4360.46	615183.15	521690.04	32°26'01.269"N	103°57'36.006"W	0.00	
11776.00†	88.608	123.117	6995.08	5235.37	-2767.59	4444.20	615266.88	521635.43	32°26'00.726"N	103°57'35.031"W	0.00	
11876.00†	88.608	123.117	6997.51	5335.33	-2822.21	4527.93	615350.60	521580.81	32°26'00.182"N	103°57'34.057"W	0.00	



Planned Wellpath Report

Plan #1 (Ext Lat Prelim)

Page 5 of 6



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 38H SHL
Area	Eddy County, NM	Well	No.38H
Field	(Big Eddy) Sec 34, T21S, R29E	Wellbore	No.38H PWB
Facility	Big Eddy Unit No. 38H		

WELLPATH DATA (161 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
11976.00†	88.608	123.117	6999.94	5435.29	-2876.83	4611.66	615434.33	521526.20	32°25'59.639"N	103°57'33.082"W	0.00	
12076.00†	88.608	123.117	7002.37	5535.25	-2931.45	4695.39	615518.05	521471.58	32°25'59.096"N	103°57'32.107"W	0.00	
12176.00†	88.608	123.117	7004.80	5635.21	-2986.07	4779.12	615601.78	521416.97	32°25'58.552"N	103°57'31.133"W	0.00	
12276.00†	88.608	123.117	7007.23	5735.18	-3040.69	4862.85	615685.50	521362.35	32°25'58.009"N	103°57'30.158"W	0.00	
12376.00†	88.608	123.117	7009.66	5835.14	-3095.31	4946.58	615769.22	521307.74	32°25'57.466"N	103°57'29.183"W	0.00	
12476.00†	88.608	123.117	7012.09	5935.10	-3149.93	5030.31	615852.95	521253.13	32°25'56.922"N	103°57'28.209"W	0.00	
12576.00†	88.608	123.117	7014.52	6035.06	-3204.54	5114.04	615936.67	521198.51	32°25'56.379"N	103°57'27.234"W	0.00	
12676.00†	88.608	123.117	7016.95	6135.02	-3259.16	5197.78	616020.40	521143.90	32°25'55.836"N	103°57'26.259"W	0.00	
12776.00†	88.608	123.117	7019.37	6234.98	-3313.78	5281.51	616104.12	521089.28	32°25'55.292"N	103°57'25.285"W	0.00	
12801.74	88.608	123.117	7020.00	6260.71	-3327.84	5303.06	616125.68	521075.22	32°25'55.152"N	103°57'25.034"W	0.00	No.38H/PBHL
12876.00†	88.608	123.117	7021.80	6334.94	-3368.40	5365.24	616187.85	521034.67	32°25'54.749"N	103°57'24.310"W	0.00	
12976.00†	88.608	123.117	7024.23	6434.90	-3423.02	5448.97	616271.57	520980.05	32°25'54.205"N	103°57'23.335"W	0.00	
13076.00†	88.608	123.117	7026.66	6534.86	-3477.64	5532.70	616355.30	520925.44	32°25'53.662"N	103°57'22.361"W	0.00	
13176.00†	88.608	123.117	7029.09	6634.82	-3532.26	5616.43	616439.02	520870.83	32°25'53.119"N	103°57'21.386"W	0.00	
13276.00†	88.608	123.117	7031.52	6734.78	-3586.87	5700.16	616522.75	520816.21	32°25'52.575"N	103°57'20.412"W	0.00	
13376.00†	88.608	123.117	7033.95	6834.74	-3641.49	5783.89	616606.47	520761.60	32°25'52.032"N	103°57'19.437"W	0.00	
13476.00†	88.608	123.117	7036.38	6934.70	-3696.11	5867.62	616690.19	520706.98	32°25'51.488"N	103°57'18.462"W	0.00	
13576.00†	88.608	123.117	7038.81	7034.66	-3750.73	5951.36	616773.92	520652.37	32°25'50.945"N	103°57'17.488"W	0.00	
13676.00†	88.608	123.117	7041.24	7134.62	-3805.35	6035.09	616857.64	520597.75	32°25'50.402"N	103°57'16.513"W	0.00	
13776.00†	88.608	123.117	7043.67	7234.58	-3859.97	6118.82	616941.37	520543.14	32°25'49.858"N	103°57'15.538"W	0.00	
13876.00†	88.608	123.117	7046.10	7334.55	-3914.59	6202.55	617025.09	520488.53	32°25'49.315"N	103°57'14.564"W	0.00	
13976.00†	88.608	123.117	7048.53	7434.51	-3969.21	6286.28	617108.82	520433.91	32°25'48.772"N	103°57'13.589"W	0.00	
14076.00†	88.608	123.117	7050.96	7534.47	-4023.82	6370.01	617192.54	520379.30	32°25'48.228"N	103°57'12.615"W	0.00	
14176.00†	88.608	123.117	7053.39	7634.43	-4078.44	6453.74	617276.27	520324.68	32°25'47.685"N	103°57'11.640"W	0.00	
14276.00†	88.608	123.117	7055.82	7734.39	-4133.06	6537.47	617359.99	520270.07	32°25'47.141"N	103°57'10.665"W	0.00	
14371.74	88.608	123.117	7058.14	7830.09	-4185.35	6617.64	617440.15	520217.78	32°25'46.621"N	103°57'09.732"W	0.00	No.38H PBHL Rev. 1



Planned Wellpath Report

Plan #1 (Ext Lat Prelim)

Page 6 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 38H SHL
Area	Eddy County, NM	Well	No.38H
Field	(Big Eddy) Sec 34, T21S, R29E	Wellbore	No.38H PWB
Facility	Big Eddy Unit No. 38H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No.38H PBHL	12801.74	7020.00	3327.84	5303.06	616125.68	521075.22	32°25'55.152"N	103°57'25.034"W	point

SURVEY PROGRAM - Ref Wellbore: No.38H PWB Ref Wellpath: Plan #1 (Ext Lat Prelim)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	3400.00	Generic gyro - northseeking (Standard)		No.38H AWB
3400.00	3576.00	NaviTrak (Standard)		No.38H AWB
3576.00	14371.74	NaviTrak (Standard)		No.38H PWB