

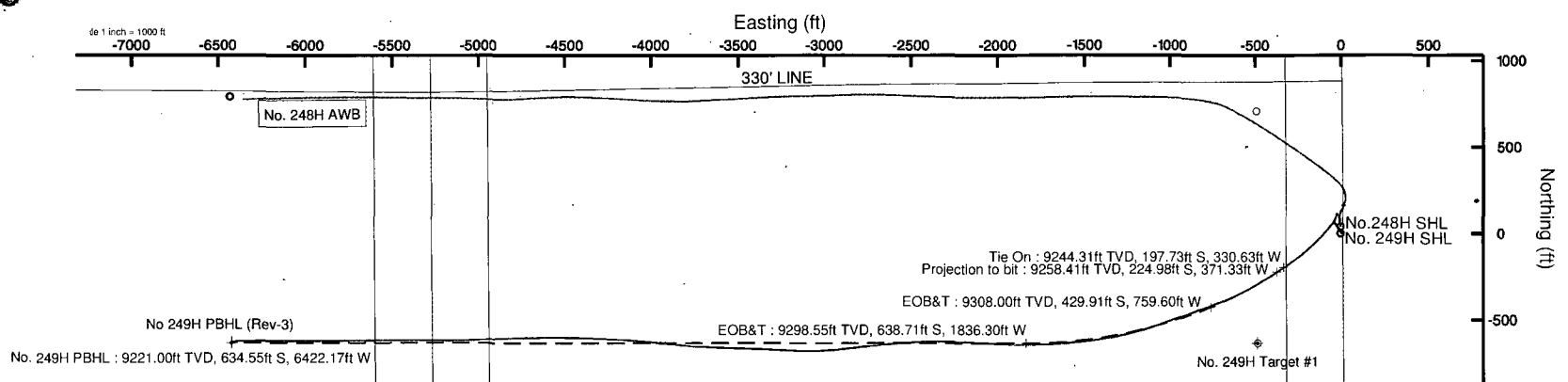
30-015-40715



BOPCO, L.P.

Location: Eddy County, NM
 Field: Big Eddy
 Facility: Big Eddy Unit No.248H & No. 249H

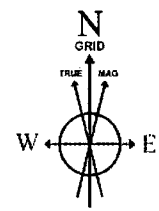
Slot: No. 249H SHL
 Well: No. 249H
 Wellbore: No. 249H PWB



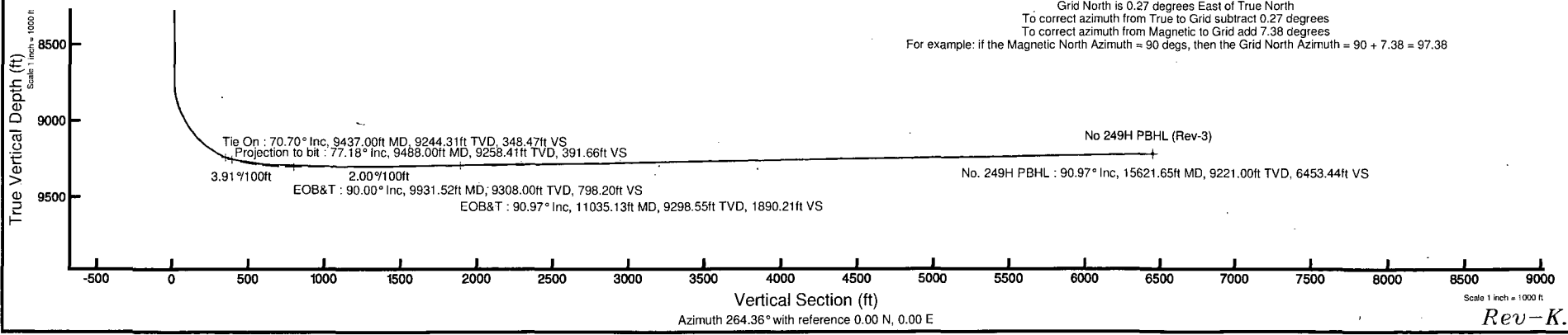
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	9437.00	70.700	236.200	9244.31	-197.73	-330.63	0.00	348.47
Projection to bit	9488.00	77.180	236.200	9258.41	-224.98	-371.33	12.71	391.66
EOB&T	9931.52	90.000	248.000	9308.00	-429.91	-759.60	3.91	798.20
EOB&T	11035.13	90.969	270.052	9298.55	-638.71	-1836.30	2.00	1890.21
No. 249H PBHL	15621.65	90.969	270.052	9221.00	-634.55	-6422.17	0.00	6453.44

Plot reference wellpath is Rev-K.0	
True vertical depths are referenced to Rig on No. 249H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 249H SHL (KB)	North Reference: Grid north
Rig on No. 249H SHL (KB) to Mean Sea Level: 3517 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No. 249H SHL): -3487 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: harrkol on 3/20/2013



BGGM (1945.0 to 2014.0) Dip: 60.44° Field: 48657.8 nT
 Magnetic North is 7.66 degrees East of True North (at 12/21/2012)
 Grid North is 0.27 degrees East of True North
 To correct azimuth from True to Grid subtract 0.27 degrees
 To correct azimuth from Magnetic to Grid add 7.38 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.38 = 97.38



Rev-K.0



Actual Wellpath Report

No. 249H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 249H SHL
Area	Eddy County, NM	Well	No. 249H
Field	Big Eddy	Wellbore	No. 249H AWB
Facility	Big Eddy Unit No.248H & No. 249H		

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	0.999937	Report Generated	04/08/2013 at 3:51:56 PM
Convergence at slot	0.27° East	Database/Source file	WA Midland/No. 249H AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-39.95	-0.01	654712.39	589907.05	32°37'14.710"N	103°49'51.026"W
Facility Reference Pt			654712.40	589947.00	32°37'15.106"N	103°49'51.024"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. 249H SHL (KB) to Facility Vertical Datum	31.00ft
Horizontal Reference Pt	Slot	Rig on No. 249H SHL (KB) to Mean Sea Level	3517.00ft
Vertical Reference Pt	Rig on No. 249H SHL (KB)	Rig on No. 249H SHL (KB) to Mud Line at Slot (No. 249H SHL)	30.00ft
MD Reference Pt	Rig on No. 249H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	264.36°



Actual Wellpath Report

No. 249H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 249H SHL
Area	Eddy County, NM	Well	No. 249H
Field	Big Eddy	Wellbore	No. 249H AWB
Facility	Big Eddy Unit No.248H & No. 249H		

WELLPATH DATA (167 stations)												
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	77.930	0.00	0.00	0.00	0.00	654712.39	589907.05	32°37'14.710"N	103°49'51.026"W	0.00	
100.00	0.220	77.930	100.00	-0.19	0.04	0.19	654712.58	589907.09	32°37'14.711"N	103°49'51.024"W	0.22	
200.00	0.410	68.140	200.00	-0.73	0.21	0.71	654713.10	589907.26	32°37'14.712"N	103°49'51.018"W	0.20	
300.00	0.470	63.600	300.00	-1.45	0.53	1.41	654713.80	589907.58	32°37'14.716"N	103°49'51.009"W	0.07	
400.00	0.580	42.540	399.99	-2.21	1.08	2.12	654714.51	589908.13	32°37'14.721"N	103°49'51.001"W	0.22	
500.00	0.520	33.200	499.99	-2.87	1.84	2.71	654715.10	589908.89	32°37'14.728"N	103°49'50.994"W	0.11	
600.00	0.660	27.260	599.98	-3.47	2.73	3.22	654715.61	589909.78	32°37'14.737"N	103°49'50.988"W	0.15	
700.00	0.620	23.730	699.97	-4.05	3.74	3.70	654716.09	589910.79	32°37'14.747"N	103°49'50.982"W	0.06	
800.00	0.820	357.140	799.97	-4.35	4.95	3.88	654716.27	589912.00	32°37'14.759"N	103°49'50.980"W	0.38	
900.00	0.740	342.760	899.96	-4.26	6.28	3.66	654716.05	589913.33	32°37'14.772"N	103°49'50.983"W	0.21	
941.00	0.740	326.980	940.95	-4.08	6.75	3.43	654715.82	589913.80	32°37'14.777"N	103°49'50.985"W	0.50	
1036.20	0.710	326.430	1036.15	-3.52	7.76	2.77	654715.16	589914.81	32°37'14.787"N	103°49'50.993"W	0.03	
1131.40	0.720	324.210	1131.34	-2.94	8.74	2.10	654714.49	589915.79	32°37'14.797"N	103°49'51.001"W	0.03	
1226.70	0.620	327.460	1226.63	-2.41	9.66	1.47	654713.86	589916.71	32°37'14.806"N	103°49'51.008"W	0.11	
1322.00	0.550	332.550	1321.93	-2.01	10.50	0.98	654713.37	589917.55	32°37'14.814"N	103°49'51.014"W	0.09	
1417.30	0.570	333.130	1417.22	-1.67	11.33	0.56	654712.95	589918.37	32°37'14.822"N	103°49'51.019"W	0.02	
1512.40	0.500	337.900	1512.32	-1.38	12.13	0.19	654712.58	589919.18	32°37'14.830"N	103°49'51.023"W	0.09	
1607.60	0.360	350.460	1607.52	-1.24	12.81	-0.02	654712.37	589919.86	32°37'14.837"N	103°49'51.025"W	0.18	
1702.80	0.270	14.840	1702.72	-1.30	13.32	-0.01	654712.38	589920.37	32°37'14.842"N	103°49'51.025"W	0.17	
1798.20	0.260	41.160	1798.11	-1.53	13.70	0.19	654712.58	589920.75	32°37'14.846"N	103°49'51.023"W	0.13	
1893.50	0.290	73.090	1893.41	-1.93	13.94	0.56	654712.95	589920.99	32°37'14.848"N	103°49'51.019"W	0.16	
1988.80	0.330	81.480	1988.71	-2.44	14.05	1.06	654713.45	589921.10	32°37'14.849"N	103°49'51.013"W	0.06	
2083.90	0.410	80.580	2083.81	-3.05	14.14	1.67	654714.06	589921.19	32°37'14.850"N	103°49'51.006"W	0.08	
2179.10	0.260	87.730	2179.01	-3.61	14.21	2.22	654714.61	589921.26	32°37'14.851"N	103°49'50.999"W	0.16	
2274.40	0.210	95.460	2274.31	-3.99	14.20	2.61	654715.00	589921.25	32°37'14.851"N	103°49'50.995"W	0.06	
2369.70	0.070	129.180	2369.61	-4.21	14.15	2.83	654715.22	589921.20	32°37'14.850"N	103°49'50.992"W	0.16	
2465.00	0.060	202.930	2464.91	-4.22	14.06	2.86	654715.25	589921.11	32°37'14.849"N	103°49'50.992"W	0.08	
2560.10	0.140	230.760	2560.01	-4.10	13.94	2.75	654715.14	589920.99	32°37'14.848"N	103°49'50.993"W	0.10	
2655.30	0.240	211.820	2655.21	-3.89	13.70	2.55	654714.94	589920.75	32°37'14.846"N	103°49'50.995"W	0.12	
2750.30	0.290	210.540	2750.21	-3.62	13.33	2.32	654714.71	589920.37	32°37'14.842"N	103°49'50.998"W	0.05	
2845.40	0.290	237.930	2845.30	-3.27	12.99	2.00	654714.39	589920.04	32°37'14.839"N	103°49'51.002"W	0.14	
2940.40	0.340	238.580	2940.30	-2.80	12.72	1.55	654713.94	589919.76	32°37'14.836"N	103°49'51.007"W	0.05	
3035.50	0.340	240.070	3035.40	-2.28	12.43	1.07	654713.46	589919.48	32°37'14.833"N	103°49'51.013"W	0.01	
3130.80	0.400	246.190	3130.70	-1.71	12.15	0.52	654712.91	589919.20	32°37'14.831"N	103°49'51.019"W	0.08	
3226.10	0.460	223.520	3226.00	-1.11	11.74	-0.05	654712.34	589918.79	32°37'14.827"N	103°49'51.026"W	0.19	
3321.50	0.730	215.600	3321.39	-0.42	10.97	-0.67	654711.72	589918.02	32°37'14.819"N	103°49'51.033"W	0.30	
3417.00	1.200	215.790	3416.88	0.65	9.66	-1.61	654710.78	589916.71	32°37'14.806"N	103°49'51.044"W	0.49	
3512.30	0.700	321.650	3512.17	1.62	9.31	-2.55	654709.84	589916.36	32°37'14.803"N	103°49'51.055"W	1.62	
3607.50	1.670	343.540	3607.35	2.20	11.10	-3.30	654709.09	589918.15	32°37'14.820"N	103°49'51.064"W	1.11	
3702.70	1.200	338.040	3702.52	2.74	13.35	-4.07	654708.32	589920.40	32°37'14.843"N	103°49'51.073"W	0.51	
3797.90	1.310	338.760	3797.70	3.31	15.29	-4.84	654707.55	589922.34	32°37'14.862"N	103°49'51.082"W	0.12	
3893.30	1.380	338.410	3893.07	3.92	17.37	-5.65	654706.74	589924.42	32°37'14.883"N	103°49'51.091"W	0.07	
3988.60	1.550	336.890	3988.34	4.62	19.63	-6.58	654705.81	589926.68	32°37'14.905"N	103°49'51.102"W	0.18	
4083.90	1.470	334.220	4083.60	5.43	21.91	-7.62	654704.77	589928.96	32°37'14.928"N	103°49'51.114"W	0.11	
4179.20	1.420	333.030	4178.87	6.28	24.07	-8.69	654703.70	589931.12	32°37'14.949"N	103°49'51.126"W	0.06	



Actual Wellpath Report

No. 249H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 249H SHL
Area	Eddy County, NM	Well	No. 249H
Field	Big Eddy	Wellbore	No. 249H AWP
Facility	Big Eddy Unit No.248H & No. 249H		

WELLPATH DATA (167 stations)												
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
4274.40	1.510	333.750	4274.04	7.15	26.24	-9.78	654702.61	589933.29	32°37'14.970"N	103°49'51.139"W	0.10	
4369.70	1.620	328.810	4369.31	8.17	28.52	-11.03	654701.36	589935.57	32°37'14.993"N	103°49'51.153"W	0.18	
4464.80	2.090	323.040	4464.36	9.65	31.06	-12.77	654699.62	589938.11	32°37'15.018"N	103°49'51.173"W	0.53	
4559.90	2.690	320.980	4559.37	11.78	34.18	-15.22	654697.17	589941.22	32°37'15.049"N	103°49'51.202"W	0.64	
4655.10	3.170	320.590	4654.45	14.47	37.95	-18.29	654694.10	589944.99	32°37'15.087"N	103°49'51.238"W	0.50	
4750.50	3.470	319.710	4749.69	17.58	42.19	-21.84	654690.56	589949.23	32°37'15.129"N	103°49'51.279"W	0.32	
4845.80	3.140	320.140	4844.83	20.69	46.39	-25.37	654687.02	589953.44	32°37'15.171"N	103°49'51.320"W	0.35	
4941.00	2.820	326.580	4939.90	23.25	50.35	-28.33	654684.06	589957.39	32°37'15.210"N	103°49'51.354"W	0.49	
5036.10	2.510	330.330	5034.90	25.19	54.11	-30.65	654681.74	589961.15	32°37'15.247"N	103°49'51.381"W	0.37	
5131.10	2.350	333.190	5129.81	26.74	57.65	-32.56	654679.83	589964.70	32°37'15.282"N	103°49'51.403"W	0.21	
5226.10	2.180	336.430	5224.74	28.00	61.05	-34.16	654678.23	589968.09	32°37'15.316"N	103°49'51.422"W	0.22	
5321.00	2.050	338.090	5319.58	29.03	64.28	-35.52	654676.87	589971.32	32°37'15.348"N	103°49'51.438"W	0.15	
5415.80	1.650	346.870	5414.33	29.68	67.18	-36.46	654675.93	589974.23	32°37'15.377"N	103°49'51.448"W	0.52	
5510.60	1.190	3.800	5509.10	29.70	69.49	-36.71	654675.69	589976.54	32°37'15.400"N	103°49'51.451"W	0.65	
5605.50	1.210	13.750	5603.98	29.20	71.45	-36.40	654675.99	589978.49	32°37'15.419"N	103°49'51.448"W	0.22	
5700.60	1.350	19.640	5699.05	28.39	73.48	-35.79	654676.61	589980.52	32°37'15.439"N	103°49'51.440"W	0.20	
5796.00	1.310	24.460	5794.43	27.36	75.53	-34.96	654677.43	589982.57	32°37'15.459"N	103°49'51.430"W	0.12	
5891.30	1.290	28.190	5889.70	26.22	77.47	-34.00	654678.39	589984.51	32°37'15.478"N	103°49'51.419"W	0.09	
5986.40	1.150	26.570	5984.78	25.11	79.26	-33.07	654679.32	589986.31	32°37'15.496"N	103°49'51.408"W	0.15	
6081.30	1.240	24.870	6079.66	24.08	81.05	-32.21	654680.18	589988.09	32°37'15.514"N	103°49'51.398"W	0.10	
6176.10	1.210	23.960	6174.44	23.07	82.89	-31.37	654681.02	589989.94	32°37'15.532"N	103°49'51.388"W	0.04	
6271.10	1.220	23.000	6269.42	22.09	84.74	-30.57	654681.82	589991.78	32°37'15.550"N	103°49'51.379"W	0.02	
6366.00	1.190	23.950	6364.30	21.12	86.57	-29.77	654682.62	589993.61	32°37'15.568"N	103°49'51.369"W	0.04	
6461.90	1.170	24.690	6460.18	20.13	88.37	-28.96	654683.43	589995.41	32°37'15.586"N	103°49'51.360"W	0.03	
6557.80	1.090	26.070	6556.06	19.16	90.08	-28.15	654684.24	589997.12	32°37'15.603"N	103°49'51.350"W	0.09	
6653.70	1.080	20.410	6651.94	18.28	91.74	-27.44	654684.96	589998.79	32°37'15.619"N	103°49'51.342"W	0.11	
6748.90	1.180	12.690	6747.12	17.58	93.54	-26.91	654685.48	590000.59	32°37'15.637"N	103°49'51.335"W	0.19	
6844.00	1.210	7.840	6842.20	17.04	95.49	-26.56	654685.84	590002.54	32°37'15.656"N	103°49'51.331"W	0.11	
6939.30	1.250	3.500	6937.48	16.64	97.53	-26.35	654686.04	590004.57	32°37'15.677"N	103°49'51.329"W	0.11	
7034.50	1.180	2.990	7032.66	16.33	99.54	-26.24	654686.15	590006.59	32°37'15.697"N	103°49'51.327"W	0.07	
7129.70	1.160	3.210	7127.84	16.03	101.48	-26.13	654686.26	590008.53	32°37'15.716"N	103°49'51.326"W	0.02	
7224.60	0.850	7.490	7222.72	15.72	103.14	-25.99	654686.40	590010.18	32°37'15.732"N	103°49'51.324"W	0.34	
7319.50	0.690	7.040	7317.61	15.44	104.40	-25.83	654686.56	590011.45	32°37'15.745"N	103°49'51.322"W	0.17	
7414.30	0.820	60.070	7412.41	14.69	105.31	-25.17	654687.22	590012.35	32°37'15.754"N	103°49'51.314"W	0.72	
7509.20	0.800	45.110	7507.30	13.56	106.12	-24.11	654688.28	590013.16	32°37'15.761"N	103°49'51.302"W	0.22	
7604.60	0.830	41.290	7602.69	12.54	107.11	-23.18	654689.21	590014.15	32°37'15.771"N	103°49'51.291"W	0.07	
7700.10	1.060	35.130	7698.18	11.46	108.35	-22.22	654690.17	590015.39	32°37'15.783"N	103°49'51.280"W	0.26	
7795.20	0.920	43.610	7793.26	10.31	109.62	-21.19	654691.20	590016.66	32°37'15.796"N	103°49'51.268"W	0.21	
7890.00	0.490	87.960	7888.05	9.32	110.19	-20.26	654692.13	590017.23	32°37'15.802"N	103°49'51.257"W	0.70	
7984.80	0.380	115.390	7982.85	8.65	110.06	-19.57	654692.82	590017.11	32°37'15.800"N	103°49'51.249"W	0.25	
8080.10	0.620	295.030	8078.15	8.82	110.15	-19.75	654692.64	590017.19	32°37'15.801"N	103°49'51.251"W	1.05	
8175.30	1.320	294.310	8173.34	10.22	110.82	-21.22	654691.18	590017.86	32°37'15.808"N	103°49'51.268"W	0.74	
8270.50	1.420	281.130	8268.51	12.30	111.50	-23.37	654689.02	590018.54	32°37'15.815"N	103°49'51.293"W	0.35	
8365.60	0.530	259.280	8363.59	13.86	111.64	-24.96	654687.43	590018.68	32°37'15.816"N	103°49'51.312"W	1.00	
8461.20	0.910	234.750	8459.19	14.96	111.12	-26.01	654686.88	590018.16	32°37'15.811"N	103°49'51.324"W	0.50	



Actual Wellpath Report

No. 249H AWP

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**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 249H SHL
Area	Eddy County, NM	Well	No. 249H
Field	Big Eddy	Wellbore	No. 249H AWB
Facility	Big Eddy Unit No.248H & No. 249H		

WELLPATH DATA (167 stations)												
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
8559.20	0.850	227.050	8557.18	16.22	110.18	-27.18	654685.21	590017.22	32°37'15.802"N	103°49'51.338"W	0.14	
8653.00	1.000	208.000	8650.96	17.22	108.98	-28.08	654684.32	590016.02	32°37'15.790"N	103°49'51.348"W	0.36	
8677.00	0.800	215.800	8674.96	17.45	108.66	-28.27	654684.12	590015.70	32°37'15.787"N	103°49'51.350"W	0.98	
8708.00	2.200	187.000	8705.95	17.72	107.89	-28.47	654683.92	590014.94	32°37'15.779"N	103°49'51.353"W	4.99	
8740.00	7.200	177.800	8737.83	17.98	105.28	-28.47	654683.92	590012.32	32°37'15.753"N	103°49'51.353"W	15.75	
8772.00	12.600	179.700	8769.34	18.43	99.78	-28.37	654684.02	590006.82	32°37'15.699"N	103°49'51.352"W	16.90	
8803.00	16.900	190.500	8799.32	19.99	91.96	-29.18	654683.21	589999.01	32°37'15.622"N	103°49'51.362"W	16.41	
8835.00	20.300	203.100	8829.66	23.96	82.28	-32.21	654680.19	589989.32	32°37'15.526"N	103°49'51.398"W	16.39	
8867.00	24.000	210.300	8859.30	30.45	71.55	-37.67	654674.72	589978.59	32°37'15.420"N	103°49'51.462"W	14.32	
8899.00	26.000	213.900	8888.30	38.74	60.10	-44.87	654667.53	589967.15	32°37'15.307"N	103°49'51.547"W	7.85	
8930.00	28.200	217.700	8915.90	48.09	48.67	-53.14	654659.26	589955.71	32°37'15.194"N	103°49'51.644"W	9.03	
8962.00	30.800	220.800	8943.75	59.22	36.48	-63.12	654649.28	589943.53	32°37'15.074"N	103°49'51.762"W	9.42	
8994.00	33.900	221.300	8970.78	71.68	23.57	-74.36	654638.03	589930.62	32°37'14.947"N	103°49'51.894"W	9.72	
9025.00	36.500	221.600	8996.11	84.77	10.18	-86.19	654626.21	589917.23	32°37'14.815"N	103°49'52.033"W	8.41	
9057.00	38.600	221.700	9021.47	99.10	-4.39	-99.15	654613.25	589902.66	32°37'14.672"N	103°49'52.185"W	6.57	
9088.00	41.100	223.300	9045.27	113.90	-19.03	-112.57	654599.82	589888.02	32°37'14.527"N	103°49'52.343"W	8.72	
9120.00	43.300	224.900	9068.98	130.31	-34.46	-127.54	654584.86	589872.59	32°37'14.375"N	103°49'52.519"W	7.65	
9152.00	45.200	226.600	9091.90	147.76	-50.04	-143.53	654568.87	589857.02	32°37'14.222"N	103°49'52.707"W	7.00	
9184.00	48.400	226.900	9113.80	166.24	-66.02	-160.52	654551.88	589841.04	32°37'14.065"N	103°49'52.906"W	10.02	
9215.00	51.600	228.300	9133.73	185.26	-82.02	-178.06	654534.34	589825.03	32°37'13.907"N	103°49'53.112"W	10.89	
9247.00	54.700	228.400	9152.91	205.97	-99.04	-197.19	654515.21	589808.02	32°37'13.740"N	103°49'53.337"W	9.69	
9279.00	57.100	230.300	9170.85	227.68	-116.29	-217.30	654495.11	589790.77	32°37'13.570"N	103°49'53.573"W	8.97	
9310.00	59.700	233.700	9187.10	249.98	-132.53	-238.10	654474.30	589774.53	32°37'13.410"N	103°49'53.817"W	12.55	
9342.00	61.300	234.600	9202.86	274.05	-148.84	-260.68	654451.73	589758.22	32°37'13.250"N	103°49'54.082"W	5.57	
9373.00	61.600	234.900	9217.67	297.73	-164.56	-282.92	654429.49	589742.50	32°37'13.095"N	103°49'54.343"W	1.29	
9405.00	64.600	234.800	9232.15	322.56	-180.99	-306.25	654406.16	589726.08	32°37'12.934"N	103°49'54.616"W	9.38	
9437.00	70.700	236.200	9244.31	348.47	-197.73	-330.63	654381.78	589709.33	32°37'12.769"N	103°49'54.902"W	19.49	
9468.00	76.700	236.600	9253.01	374.74	-214.19	-355.40	654357.01	589692.87	32°37'12.608"N	103°49'55.193"W	19.39	
9500.00	79.400	236.300	9259.63	402.40	-231.49	-381.49	654330.93	589675.57	32°37'12.438"N	103°49'55.499"W	8.49	
9532.00	81.100	238.800	9265.05	430.55	-248.41	-408.10	654304.32	589658.66	32°37'12.271"N	103°49'55.811"W	9.35	
9563.00	81.900	240.700	9269.64	458.42	-263.85	-434.58	654277.83	589643.21	32°37'12.120"N	103°49'56.121"W	6.59	
9595.00	81.600	239.800	9274.23	487.33	-279.57	-462.08	654250.34	589627.50	32°37'11.966"N	103°49'56.444"W	2.94	
9625.00	81.400	239.500	9278.66	514.28	-294.56	-487.68	654224.74	589612.51	32°37'11.819"N	103°49'56.744"W	1.19	
9657.00	81.200	239.100	9283.50	542.94	-310.71	-514.88	654197.54	589596.36	32°37'11.660"N	103°49'57.063"W	1.38	
9689.00	82.700	241.800	9287.99	571.90	-326.33	-542.44	654169.98	589580.74	32°37'11.507"N	103°49'57.386"W	9.58	
9759.00	86.800	244.600	9294.39	636.89	-357.75	-604.64	654107.79	589549.33	32°37'11.199"N	103°49'58.115"W	7.08	
9854.00	88.900	248.800	9297.96	727.33	-395.28	-691.81	654020.62	589511.79	32°37'10.831"N	103°49'59.136"W	4.94	
9949.00	88.700	250.600	9299.95	819.21	-428.23	-780.89	653931.55	589478.84	32°37'10.510"N	103°50'00.179"W	1.91	
10044.00	88.800	250.000	9302.02	911.34	-460.25	-870.31	653842.14	589446.83	32°37'10.197"N	103°50'01.226"W	0.64	
10139.00	88.700	249.600	9304.09	1003.27	-493.05	-959.44	653753.01	589414.04	32°37'09.877"N	103°50'02.270"W	0.43	
10234.00	89.600	249.800	9305.50	1095.17	-526.00	-1048.53	653663.93	589381.08	32°37'09.555"N	103°50'03.314"W	0.97	
10330.00	89.800	252.800	9306.00	1188.68	-556.78	-1139.45	653573.01	589350.31	32°37'09.254"N	103°50'04.378"W	3.13	
10425.00	89.800	256.700	9306.33	1282.32	-581.76	-1231.09	653481.38	589325.33	32°37'09.011"N	103°50'05.451"W	4.11	
10519.00	90.800	259.100	9305.84	1375.72	-601.46	-1322.99	653389.49	589305.63	32°37'08.821"N	103°50'06.526"W	2.77	
10615.00	90.900	262.000	9304.42	1471.49	-617.22	-1417.67	653294.82	589289.87	32°37'08.669"N	103°50'07.634"W	3.02	



Actual Wellpath Report

No. 249H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 249H SHL
Area	Eddy County, NM	Well	No. 249H
Field	Big Eddy	Wellbore	No. 249H AWB
Facility	Big Eddy Unit No.248H & No. 249H		

WELLPATH DATA (167 stations)												
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
10710.00	90.800	263.900	9303.01	1566.44	-628.88	-1511.93	653200.56	589278.21	32°37'08.558"N	103°50'08.737"W	2.00	
10805.00	90.900	265.300	9301.60	1661.43	-637.82	-1606.50	653106.00	589269.27	32°37'08.474"N	103°50'09.843"W	1.48	
10900.00	91.100	267.700	9299.94	1756.34	-643.62	-1701.30	653011.20	589263.48	32°37'08.421"N	103°50'10.952"W	2.53	
10995.00	90.900	268.700	9298.28	1851.11	-646.60	-1796.24	652916.27	589260.49	32°37'08.396"N	103°50'12.062"W	1.07	
11090.00	91.100	270.500	9296.62	1945.70	-647.26	-1891.22	652821.30	589259.83	32°37'08.394"N	103°50'13.172"W	1.91	
11185.00	90.900	273.300	9294.97	2039.85	-644.11	-1986.14	652726.38	589262.98	32°37'08.429"N	103°50'14.282"W	2.95	
11281.00	91.000	273.600	9293.37	2134.63	-638.34	-2081.95	652630.57	589268.75	32°37'08.491"N	103°50'15.402"W	0.33	
11471.00	91.100	271.400	9289.89	2322.67	-630.05	-2271.73	652440.81	589277.04	32°37'08.582"N	103°50'17.620"W	1.16	
11661.00	90.700	267.200	9286.91	2511.90	-632.37	-2461.65	652250.90	589274.72	32°37'08.567"N	103°50'19.840"W	2.22	
11851.00	89.600	264.200	9286.41	2701.82	-646.62	-2651.09	652061.47	589260.48	32°37'08.435"N	103°50'22.056"W	1.68	
12041.00	92.000	263.700	9283.76	2891.78	-666.64	-2840.00	651872.58	589240.46	32°37'08.246"N	103°50'24.266"W	1.29	
12231.00	90.800	266.900	9279.11	3081.67	-682.20	-3029.27	651683.31	589224.90	32°37'08.101"N	103°50'26.479"W	1.80	
12326.00	90.900	272.600	9277.70	3176.20	-682.61	-3124.22	651588.37	589224.48	32°37'08.101"N	103°50'27.589"W	6.00	
12421.00	90.800	272.800	9276.29	3270.19	-678.14	-3219.11	651493.49	589228.96	32°37'08.149"N	103°50'28.698"W	0.24	
12517.00	90.900	272.600	9274.87	3365.16	-673.62	-3314.99	651397.62	589233.48	32°37'08.199"N	103°50'29.819"W	0.23	
12707.00	90.900	271.500	9271.88	3553.43	-666.82	-3504.84	651207.78	589240.27	32°37'08.274"N	103°50'32.038"W	0.58	
12897.00	91.000	273.100	9268.73	3741.57	-659.20	-3694.66	651017.97	589247.90	32°37'08.359"N	103°50'34.257"W	0.84	
13088.00	90.900	276.300	9265.57	3929.42	-643.55	-3884.96	650827.68	589263.54	32°37'08.522"N	103°50'36.481"W	1.68	
13278.00	90.900	274.900	9262.58	4115.74	-625.01	-4074.03	650638.63	589282.08	32°37'08.714"N	103°50'38.690"W	0.74	
13468.00	91.100	272.700	9259.27	4303.13	-612.42	-4263.57	650449.10	589294.67	32°37'08.847"N	103°50'40.906"W	1.16	
13659.00	90.900	271.600	9255.93	4492.33	-605.26	-4454.40	650258.28	589301.83	32°37'08.927"N	103°50'43.136"W	0.59	
13849.00	91.000	269.000	9252.78	4681.27	-604.26	-4644.36	650068.33	589302.83	32°37'08.945"N	103°50'45.357"W	1.37	
14040.00	91.000	268.000	9249.45	4871.74	-609.26	-4835.26	649877.44	589297.83	32°37'08.905"N	103°50'47.589"W	0.52	
14230.00	90.900	266.800	9246.30	5061.44	-617.88	-5025.04	649687.68	589289.21	32°37'08.828"N	103°50'49.808"W	0.63	
14421.00	91.000	270.900	9243.13	5251.79	-621.71	-5215.93	649496.80	589285.38	32°37'08.799"N	103°50'52.040"W	2.15	
14612.00	91.000	269.800	9239.80	5441.71	-620.55	-5406.90	649305.85	589286.54	32°37'08.819"N	103°50'54.273"W	0.58	
14803.00	91.100	269.900	9236.30	5631.80	-621.05	-5597.86	649114.89	589286.04	32°37'08.822"N	103°50'56.506"W	0.07	
14993.00	90.900	269.100	9232.98	5821.01	-622.70	-5787.83	648924.94	589284.39	32°37'08.815"N	103°50'58.727"W	0.43	
15184.00	90.900	270.200	9229.98	6011.17	-623.87	-5978.80	648733.99	589283.22	32°37'08.812"N	103°51'00.959"W	0.58	
15374.00	90.800	270.000	9227.16	6200.19	-623.54	-6168.77	648544.02	589283.55	32°37'08.823"N	103°51'03.180"W	0.12	
15548.00	91.000	269.000	9224.43	6373.47	-625.06	-6342.74	648370.06	589282.03	32°37'08.816"N	103°51'05.214"W	0.59	
15621.00	91.000	269.000	9223.15	6446.22	-626.33	-6415.72	648297.09	589280.76	32°37'08.807"N	103°51'06.068"W	0.00	Proj to Bit



Actual Wellpath Report

No. 249H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 249H SHL
Area	Eddy County, NM	Well	No. 249H
Field	Big Eddy	Wellbore	No. 249H AWB
Facility	Big Eddy Unit No.248H & No. 249H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 249H PBHL (Rev-1)		9217.00	-804.55	-6422.17	648290.64	589102.55	32°37'07.044"N	103°51'06.152"W	point
No 249H PBHL (Rev-3)		9221.00	-634.55	-6422.17	648290.64	589272.54	32°37'08.726"N	103°51'06.143"W	point
No. 249H Target #1		9332.00	-638.29	-485.22	654227.20	589268.80	32°37'08.417"N	103°49'56.734"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 249H AWB Ref Wellpath: No. 249H AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8559.20	Generic gyro - northseeking (Standard)	Gyrodata / Gyros <100-8559.2>	No. 249H AWB
8559.20	15548.00	NaviTrak (Standard)	BHI / Navitrak MWD <8653-xxxx>	No. 249H AWB
15548.00	15621.00	Blind Drilling (std)	Projection to bit	No. 249H AWB