



BOPCO, L.P.

Location: Eddy County, NM

Field: Big Eddy

Facility: Big Eddy Unit No.251H & No.252H

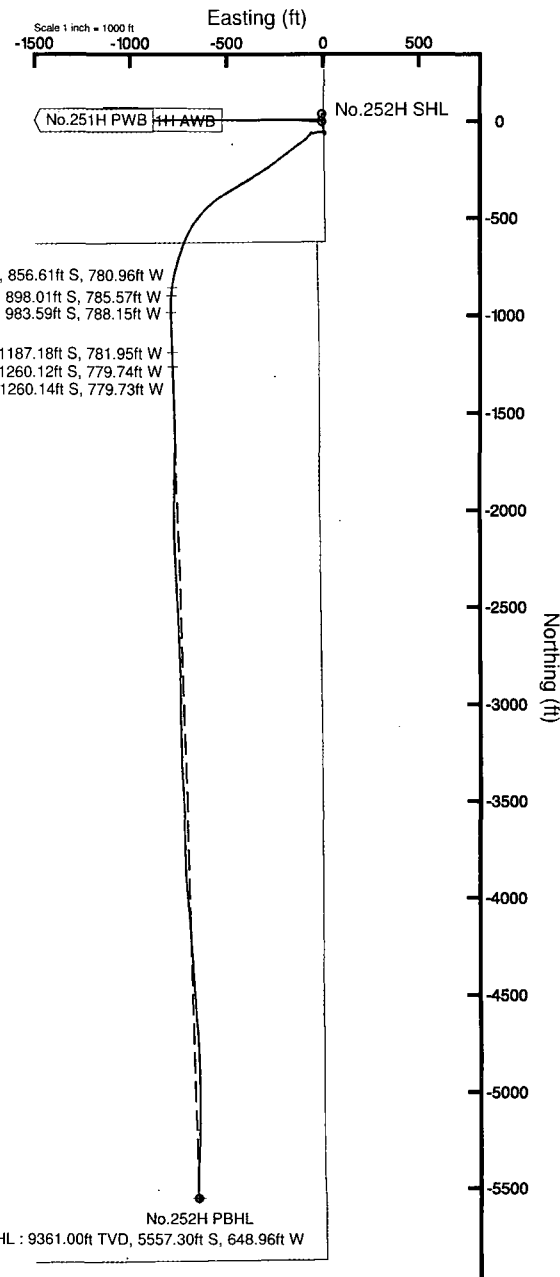
Slot: No.252H SHL

Well: No.252H

Wellbore: No.252H PWB



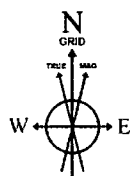
30-015-40500



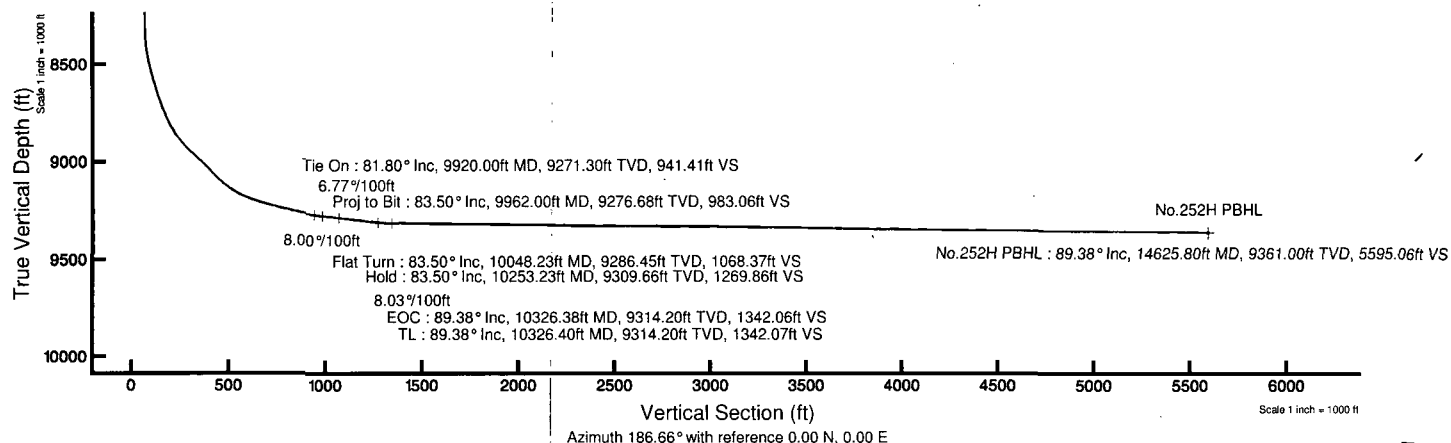
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	9920.00	81.800	187.500	9271.30	-856.61	-780.96	0.00	941.41
Proj to Bit	9962.00	83.500	185.200	9276.68	-898.01	-785.57	6.77	983.06
Flat Turn	10048.23	83.500	178.257	9286.45	-983.59	-788.15	8.00	1068.37
Hold	10253.23	83.500	178.257	9309.66	-1187.18	-781.95	0.00	1269.86
EOC	10326.38	89.376	178.257	9314.20	-1260.12	-779.74	8.03	1342.06
TL	10326.40	89.376	178.257	9314.20	-1260.14	-779.73	2.00	1342.07
No.252H PBHL	14625.80	89.376	178.257	9361.00	-5557.30	-648.96	0.00	5595.06

Plot reference wellpath is Rev-H.0	
True vertical depths are referenced to Rig on No.252H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.252H SHL (KB)	North Reference: Grid north
Rig on No.252H SHL (KB) to Mean Sea Level: 3506 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.252H SHL): -3477 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentbry on 11/07/2012



BGGM (1945.0 to 2014.0) Dip: 60.44° Field: 48696 nT
Magnetic North is 7.89 degrees East of True North (at 08/16/2012)
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 7.42 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.42 = 97.42



Rev-H.0



Actual Wellpath Report

No.252H AWP

Page 1 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.252H SHL
Area	Eddy County, NM	Well	No.252H
Field	Big Eddy	Wellbore	No.252H AWB
Facility	Big Eddy Unit No.251H & No.252H		

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	12/03/2012 at 8:22:17 AM
Convergence at slot	0.27° East	Database/Source file	WA Midland/No.252H_AWB.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	654736.51	586462.31	32°36'40.622"N	103°49'50.934"W
Facility Reference Pt			654736.51	586462.31	32°36'40.622"N	103°49'50.934"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.252H SHL (KB) to Facility Vertical Datum	3506.00ft
Horizontal Reference Pt	Slot	Rig on No.252H SHL (KB) to Mean Sea Level	3506.00ft
Vertical Reference Pt	Rig on No.252H SHL (KB)	Rig on No.252H SHL (KB) to Mud Line at Slot (No.252H SHL)	29.00ft
MD Reference Pt	Rig on No.252H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	186.66°



Actual Wellpath Report

No.252H AWP

Page 2 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.252H SHL
Area	Eddy County, NM	Well	No.252H
Field	Big Eddy	Wellbore	No.252H AWB
Facility	Big Eddy Unit No.251H & No.252H		

WELLPATH DATA (175 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	103.370	0.00	0.00	0.00	0.00	654736.51	586462.31	32°36'40.622"N	103°49'50.934"W	0.00	
100.00	0.220	103.370	100.00	0.02	-0.04	0.19	654736.70	586462.27	32°36'40.622"N	103°49'50.932"W	0.22	
200.00	0.250	121.490	200.00	0.14	-0.20	0.56	654737.07	586462.11	32°36'40.620"N	103°49'50.928"W	0.08	
300.00	0.400	135.290	300.00	0.45	-0.56	0.99	654737.50	586461.75	32°36'40.617"N	103°49'50.923"W	0.17	
400.00	0.820	153.920	399.99	1.27	-1.46	1.55	654738.06	586460.85	32°36'40.608"N	103°49'50.916"W	0.46	
500.00	1.130	157.460	499.98	2.73	-3.01	2.24	654738.75	586459.30	32°36'40.592"N	103°49'50.908"W	0.32	
600.00	1.470	158.130	599.95	4.72	-5.11	3.10	654739.61	586457.20	32°36'40.572"N	103°49'50.898"W	0.34	
700.00	1.850	167.910	699.91	7.37	-7.88	3.92	654740.43	586454.43	32°36'40.544"N	103°49'50.889"W	0.47	
800.00	3.240	171.340	799.81	11.63	-12.25	4.68	654741.19	586450.06	32°36'40.501"N	103°49'50.880"W	1.40	
844.60	3.460	169.640	844.33	14.13	-14.82	5.11	654741.62	586447.49	32°36'40.475"N	103°49'50.875"W	0.54	
940.20	4.070	171.060	939.73	20.15	-21.01	6.16	654742.67	586441.30	32°36'40.414"N	103°49'50.863"W	0.65	
1035.80	4.170	170.620	1035.08	26.76	-27.79	7.25	654743.76	586434.52	32°36'40.347"N	103°49'50.851"W	0.11	
1131.30	4.030	169.940	1130.33	33.31	-34.52	8.40	654744.91	586427.79	32°36'40.280"N	103°49'50.838"W	0.16	
1226.90	4.220	168.960	1225.69	39.88	-41.28	9.66	654746.17	586421.03	32°36'40.213"N	103°49'50.824"W	0.21	
1322.40	3.900	174.140	1320.95	46.40	-47.96	10.67	654747.18	586414.35	32°36'40.147"N	103°49'50.812"W	0.51	
1418.00	2.850	177.790	1416.38	51.92	-53.57	11.09	654747.60	586408.74	32°36'40.092"N	103°49'50.808"W	1.12	
1525.00	3.600	171.400	1523.21	57.79	-59.55	11.70	654748.21	586402.76	32°36'40.032"N	103°49'50.801"W	0.78	
1619.00	2.200	170.400	1617.09	62.37	-64.25	12.44	654748.95	586398.07	32°36'39.986"N	103°49'50.792"W	1.49	
1714.00	0.400	137.300	1712.06	64.34	-66.29	12.97	654749.48	586396.03	32°36'39.966"N	103°49'50.786"W	1.98	
1808.00	0.900	35.400	1806.05	63.90	-65.93	13.62	654750.13	586396.39	32°36'39.969"N	103°49'50.779"W	1.13	
1903.00	1.000	35.800	1901.04	62.53	-64.65	14.53	654751.04	586397.67	32°36'39.982"N	103°49'50.768"W	0.11	
1999.00	1.100	27.100	1997.03	60.93	-63.15	15.44	654751.95	586399.17	32°36'39.997"N	103°49'50.757"W	0.20	
2093.00	1.100	22.500	2091.01	59.22	-61.51	16.20	654752.71	586400.80	32°36'40.013"N	103°49'50.748"W	0.09	
2186.00	1.000	26.200	2183.99	57.59	-59.96	16.90	654753.41	586402.36	32°36'40.028"N	103°49'50.740"W	0.13	
2280.00	1.000	30.500	2277.98	56.07	-58.52	17.68	654754.19	586403.80	32°36'40.042"N	103°49'50.731"W	0.08	
2368.40	0.760	23.370	2366.37	54.80	-57.31	18.30	654754.81	586405.00	32°36'40.054"N	103°49'50.724"W	0.30	
2463.00	0.710	25.450	2460.96	53.65	-56.21	18.80	654755.31	586406.11	32°36'40.065"N	103°49'50.718"W	0.06	
2557.70	0.650	12.760	2555.65	52.56	-55.15	19.17	654755.68	586407.16	32°36'40.076"N	103°49'50.713"W	0.17	
2652.30	0.530	14.440	2650.25	51.59	-54.21	19.40	654755.91	586408.11	32°36'40.085"N	103°49'50.710"W	0.13	
2746.90	0.400	4.410	2744.85	50.83	-53.45	19.54	654756.05	586408.86	32°36'40.092"N	103°49'50.709"W	0.16	
2841.60	0.880	259.100	2839.54	50.72	-53.26	18.85	654755.36	586409.05	32°36'40.094"N	103°49'50.717"W	1.12	
2936.20	1.840	245.360	2934.11	51.72	-54.03	16.75	654753.26	586408.28	32°36'40.087"N	103°49'50.741"W	1.06	
3030.80	2.090	267.580	3028.66	52.79	-54.74	13.65	654750.16	586407.58	32°36'40.080"N	103°49'50.778"W	0.84	
3125.40	2.110	273.330	3123.20	53.16	-54.71	10.19	654746.70	586407.60	32°36'40.080"N	103°49'50.818"W	0.22	
3220.10	2.100	275.970	3217.83	53.28	-54.43	6.72	654743.23	586407.89	32°36'40.083"N	103°49'50.859"W	0.10	
3314.70	2.160	272.320	3312.37	53.44	-54.18	3.22	654739.73	586408.14	32°36'40.086"N	103°49'50.900"W	0.16	
3409.30	2.410	271.970	3406.89	53.73	-54.03	-0.55	654735.96	586408.28	32°36'40.088"N	103°49'50.944"W	0.26	
3504.00	2.660	270.630	3501.50	54.13	-53.94	-4.74	654731.77	586408.37	32°36'40.089"N	103°49'50.993"W	0.27	
3598.60	2.730	274.390	3595.99	54.45	-53.75	-9.18	654727.33	586408.57	32°36'40.091"N	103°49'51.045"W	0.20	
3693.20	2.510	271.640	3690.50	54.72	-53.51	-13.50	654723.01	586408.80	32°36'40.093"N	103°49'51.095"W	0.27	
3787.80	2.360	266.900	3785.01	55.23	-53.56	-17.51	654719.00	586408.75	32°36'40.093"N	103°49'51.142"W	0.27	
3882.50	2.060	261.780	3879.64	56.00	-53.91	-21.14	654715.37	586408.40	32°36'40.090"N	103°49'51.184"W	0.38	
3977.10	2.390	261.730	3974.17	56.94	-54.44	-24.78	654711.73	586407.88	32°36'40.085"N	103°49'51.227"W	0.35	
4071.70	2.210	261.670	4068.69	57.92	-54.98	-28.54	654707.98	586407.33	32°36'40.080"N	103°49'51.271"W	0.19	
4166.40	1.930	260.520	4163.33	58.84	-55.51	-31.92	654704.60	586406.80	32°36'40.074"N	103°49'51.310"W	0.30	



Actual Wellpath Report

No.252H AWP

Page 3 of 6



REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No.252H SHL
Area	Eddy County, NM	Well	No.252H
Field	Big Eddy	Wellbore	No.252H AWB
Facility	Big Eddy Unit No.251H & No.252H		

WELLPATH DATA (175 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
4261.00	2.060	257.390	4257.87	59.84	-56.14	-35.15	654701.37	586406.17	32°36'40.068"N	103°49'51.348"W	0.18	
4333.00	2.220	248.610	4329.82	60.92	-56.94	-37.71	654698.81	586405.38	32°36'40.061"N	103°49'51.378"W	0.51	
4399.00	2.000	246.900	4395.78	62.10	-57.85	-39.96	654696.56	586404.46	32°36'40.052"N	103°49'51.405"W	0.35	
4494.00	0.600	252.400	4490.75	63.12	-58.65	-41.96	654694.56	586403.66	32°36'40.044"N	103°49'51.428"W	1.48	
4589.00	0.300	248.400	4585.75	63.45	-58.90	-42.66	654693.85	586403.42	32°36'40.041"N	103°49'51.436"W	0.32	
4777.00	0.400	257.000	4773.74	63.90	-59.23	-43.76	654692.75	586403.09	32°36'40.038"N	103°49'51.449"W	0.06	
4967.00	0.300	229.600	4963.74	64.49	-59.70	-44.78	654691.73	586402.62	32°36'40.034"N	103°49'51.461"W	0.10	
5155.00	0.200	246.500	5151.74	65.01	-60.15	-45.46	654691.05	586402.17	32°36'40.029"N	103°49'51.469"W	0.07	
5344.00	0.400	258.100	5340.74	65.39	-60.41	-46.41	654690.11	586401.90	32°36'40.027"N	103°49'51.480"W	0.11	
5532.00	0.300	264.700	5528.73	65.70	-60.59	-47.54	654688.97	586401.72	32°36'40.025"N	103°49'51.493"W	0.06	
5721.00	0.400	278.800	5717.73	65.78	-60.54	-48.68	654687.83	586401.77	32°36'40.025"N	103°49'51.507"W	0.07	
5910.00	0.200	278.500	5906.73	65.74	-60.39	-49.66	654686.85	586401.92	32°36'40.027"N	103°49'51.518"W	0.11	
6100.00	0.200	279.600	6096.73	65.71	-60.29	-50.32	654686.20	586402.03	32°36'40.028"N	103°49'51.526"W	0.00	
6287.00	0.100	291.700	6283.73	65.66	-60.17	-50.79	654685.72	586402.14	32°36'40.029"N	103°49'51.531"W	0.06	
6476.00	0.200	303.600	6472.72	65.46	-59.93	-51.22	654685.30	586402.39	32°36'40.032"N	103°49'51.536"W	0.06	
6664.00	0.200	337.400	6660.72	65.03	-59.44	-51.62	654684.90	586402.87	32°36'40.036"N	103°49'51.541"W	0.06	
6853.00	0.400	332.500	6849.72	64.19	-58.55	-52.05	654684.46	586403.76	32°36'40.045"N	103°49'51.546"W	0.11	
7040.00	0.300	321.200	7036.72	63.31	-57.59	-52.66	654683.86	586404.72	32°36'40.055"N	103°49'51.553"W	0.06	
7228.00	0.300	292.700	7224.71	62.83	-57.02	-53.42	654683.09	586405.29	32°36'40.061"N	103°49'51.562"W	0.08	
7416.00	0.400	271.600	7412.71	62.75	-56.81	-54.53	654681.98	586405.50	32°36'40.063"N	103°49'51.575"W	0.09	
7604.00	0.300	229.800	7600.71	63.17	-57.11	-55.56	654680.95	586405.20	32°36'40.060"N	103°49'51.587"W	0.14	
7793.00	0.700	234.000	7789.70	64.31	-58.11	-56.87	654679.64	586404.21	32°36'40.050"N	103°49'51.602"W	0.21	
7982.00	0.700	211.600	7978.69	66.14	-59.77	-58.41	654678.10	586402.54	32°36'40.034"N	103°49'51.620"W	0.14	
8169.00	0.500	198.300	8165.68	67.98	-61.52	-59.27	654677.25	586400.80	32°36'40.016"N	103°49'51.631"W	0.13	
8261.00	0.600	193.300	8257.67	68.85	-62.37	-59.50	654677.01	586399.95	32°36'40.008"N	103°49'51.633"W	0.12	
8354.00	2.200	212.800	8350.64	70.93	-64.34	-60.58	654675.93	586397.97	32°36'39.988"N	103°49'51.646"W	1.77	
8386.00	5.100	219.100	8382.57	72.69	-65.96	-61.81	654674.70	586396.35	32°36'39.972"N	103°49'51.661"W	9.14	
8418.00	8.200	223.000	8414.35	75.73	-68.74	-64.27	654672.25	586393.58	32°36'39.945"N	103°49'51.689"W	9.78	
8449.00	11.200	222.700	8444.91	79.94	-72.57	-67.82	654668.70	586389.75	32°36'39.907"N	103°49'51.731"W	9.68	
8480.00	14.300	224.000	8475.14	85.42	-77.53	-72.52	654663.99	586384.78	32°36'39.858"N	103°49'51.786"W	10.04	
8511.00	17.400	224.400	8504.96	92.13	-83.60	-78.42	654658.09	586378.71	32°36'39.799"N	103°49'51.856"W	10.01	
8543.00	20.200	228.600	8535.25	100.03	-90.67	-85.92	654650.60	586371.64	32°36'39.729"N	103°49'51.944"W	9.71	
8574.00	21.800	232.600	8564.19	108.01	-97.71	-94.51	654642.01	586364.61	32°36'39.660"N	103°49'52.044"W	6.93	
8605.00	22.800	234.700	8592.87	116.03	-104.68	-103.98	654632.54	586357.64	32°36'39.591"N	103°49'52.156"W	4.12	
8637.00	24.000	235.700	8622.24	124.44	-111.93	-114.42	654622.10	586350.39	32°36'39.520"N	103°49'52.278"W	3.95	
8668.00	24.900	235.600	8650.46	132.86	-119.17	-125.01	654611.51	586343.15	32°36'39.449"N	103°49'52.402"W	2.91	
8699.00	27.100	235.100	8678.32	141.84	-126.90	-136.19	654600.33	586335.42	32°36'39.373"N	103°49'52.533"W	7.13	
8731.00	28.700	234.400	8706.60	151.84	-135.54	-148.41	654588.11	586326.78	32°36'39.288"N	103°49'52.677"W	5.10	
8762.00	30.300	234.000	8733.58	162.15	-144.47	-160.79	654575.73	586317.85	32°36'39.200"N	103°49'52.822"W	5.20	
8794.00	32.100	233.700	8760.95	173.41	-154.25	-174.18	654562.34	586308.07	32°36'39.104"N	103°49'52.979"W	5.65	
8826.00	34.200	233.600	8787.74	185.35	-164.62	-188.27	654548.25	586297.70	32°36'39.002"N	103°49'53.144"W	6.56	
8858.00	37.600	233.100	8813.66	198.22	-175.82	-203.32	654533.20	586286.50	32°36'38.892"N	103°49'53.321"W	10.66	
8889.00	41.100	232.900	8837.63	211.79	-187.65	-219.02	654517.51	586274.67	32°36'38.776"N	103°49'53.505"W	11.30	
8920.00	45.200	232.800	8860.24	226.46	-200.45	-235.91	654500.62	586261.87	32°36'38.650"N	103°49'53.703"W	13.23	
8950.00	48.700	233.500	8880.71	241.55	-213.59	-253.45	654483.07	586248.73	32°36'38.521"N	103°49'53.909"W	11.79	



Actual Wellpath Report

No.252H AWP

Page 4 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.252H SHL
Area	Eddy County, NM	Well	No.252H
Field	Big Eddy	Wellbore	No.252H AWB
Facility	Big Eddy Unit No.251H & No.252H		

WELLPATH DATA (175 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
8981.00	50.900	234.700	8900.72	257.56	-227.47	-272.63	654463.90	586234.85	32°36'38.384"N	103°49'54.134"W	7.69	
9012.00	53.700	236.100	8919.68	273.73	-241.40	-292.82	654443.71	586220.93	32°36'38.247"N	103°49'54.371"W	9.71	
9043.00	57.800	237.600	8937.12	290.13	-255.40	-314.28	654422.26	586206.93	32°36'38.110"N	103°49'54.622"W	13.82	
9075.00	61.000	238.000	8953.41	307.40	-270.07	-337.58	654398.95	586192.26	32°36'37.966"N	103°49'54.896"W	10.06	
9106.00	60.800	238.200	8968.49	324.29	-284.39	-360.58	654375.96	586177.94	32°36'37.825"N	103°49'55.165"W	0.86	
9169.00	60.200	238.600	8999.51	358.24	-313.12	-407.28	654329.26	586149.21	32°36'37.543"N	103°49'55.713"W	1.10	
9233.00	58.800	239.400	9031.99	391.94	-341.52	-454.54	654282.00	586120.81	32°36'37.264"N	103°49'56.267"W	2.44	
9318.00	57.100	238.500	9077.10	436.00	-378.67	-516.26	654220.28	586083.66	32°36'36.899"N	103°49'56.990"W	2.19	
9349.00	58.600	235.100	9093.60	452.82	-393.05	-538.22	654198.33	586069.29	32°36'36.758"N	103°49'57.248"W	10.47	
9381.00	59.700	231.800	9110.01	471.63	-409.41	-560.28	654176.27	586052.93	32°36'36.597"N	103°49'57.507"W	9.50	
9413.00	61.300	228.000	9125.77	491.92	-427.35	-581.57	654154.98	586034.99	32°36'36.421"N	103°49'57.756"W	11.48	
9445.00	62.000	224.800	9140.97	513.57	-446.77	-601.96	654134.59	586015.57	32°36'36.230"N	103°49'57.996"W	9.07	
9476.00	63.900	221.900	9155.07	535.71	-466.84	-620.90	654115.65	585995.50	32°36'36.032"N	103°49'58.218"W	10.34	
9508.00	66.600	218.700	9168.47	559.90	-489.01	-639.69	654096.86	585973.34	32°36'35.814"N	103°49'58.439"W	12.39	
9540.00	69.200	216.000	9180.51	585.40	-512.57	-657.67	654078.89	585949.77	32°36'35.581"N	103°49'58.651"W	11.27	
9571.00	71.900	212.700	9190.83	611.28	-536.70	-674.15	654062.40	585925.64	32°36'35.343"N	103°49'58.845"W	13.29	
9603.00	73.700	208.400	9200.30	639.22	-563.02	-689.68	654046.88	585899.32	32°36'35.083"N	103°49'59.028"W	14.01	
9635.00	74.600	205.000	9209.04	668.13	-590.52	-703.51	654033.05	585871.83	32°36'34.812"N	103°49'59.191"W	10.60	
9666.00	75.100	201.300	9217.14	696.82	-618.03	-715.27	654021.29	585844.32	32°36'34.540"N	103°49'59.330"W	11.63	
9698.00	75.300	199.800	9225.32	726.85	-647.00	-726.13	654010.43	585815.35	32°36'34.254"N	103°49'59.458"W	4.57	
9730.00	76.500	198.400	9233.11	757.16	-676.32	-736.28	654000.28	585786.03	32°36'33.965"N	103°49'59.579"W	5.66	
9761.00	76.500	197.900	9240.35	786.70	-704.97	-745.67	653990.89	585757.39	32°36'33.682"N	103°49'59.690"W	1.57	
9793.00	77.800	195.700	9247.47	817.41	-734.83	-754.69	653981.87	585727.53	32°36'33.386"N	103°49'59.797"W	7.84	
9825.00	77.900	195.000	9254.20	848.33	-765.00	-762.97	653973.59	585697.36	32°36'33.088"N	103°49'59.896"W	2.16	
9856.00	78.900	192.400	9260.44	878.47	-794.50	-770.16	653966.40	585667.86	32°36'32.797"N	103°49'59.981"W	8.83	
9888.00	80.100	189.800	9266.27	909.83	-825.37	-776.21	653960.35	585636.99	32°36'32.492"N	103°50'00.054"W	8.83	
9920.00	81.800	187.500	9271.30	941.41	-856.61	-780.96	653955.60	585605.75	32°36'32.183"N	103°50'00.111"W	8.87	
9951.00	83.500	185.200	9275.27	972.15	-887.17	-784.36	653952.20	585575.20	32°36'31.881"N	103°50'00.152"W	9.18	
9983.00	84.000	181.800	9278.75	1003.91	-918.91	-786.30	653950.26	585543.46	32°36'31.567"N	103°50'00.177"W	10.68	
10047.00	83.300	179.000	9285.83	1067.13	-982.51	-786.75	653949.81	585479.86	32°36'30.937"N	103°50'00.185"W	4.48	
10110.00	82.710	179.500	9293.51	1129.14	-1045.03	-785.93	653950.63	585417.34	32°36'30.319"N	103°50'00.179"W	1.22	
10142.00	82.100	179.000	9297.74	1160.59	-1076.75	-785.51	653951.05	585385.63	32°36'30.005"N	103°50'00.176"W	2.46	
10205.00	83.200	178.300	9305.80	1222.47	-1139.21	-784.04	653952.52	585323.17	32°36'29.387"N	103°50'00.162"W	2.06	
10237.00	83.500	177.500	9309.50	1253.88	-1170.98	-782.88	653953.68	585291.41	32°36'29.072"N	103°50'00.151"W	2.65	
10268.00	86.600	177.900	9312.18	1284.38	-1201.83	-781.64	653954.92	585260.56	32°36'28.767"N	103°50'00.138"W	10.08	
10300.00	89.700	177.900	9313.21	1315.99	-1233.79	-780.47	653956.10	585228.60	32°36'28.451"N	103°50'00.126"W	9.69	
10332.00	90.300	177.600	9313.21	1347.60	-1265.77	-779.21	653957.35	585196.63	32°36'28.134"N	103°50'00.113"W	2.10	
10363.00	90.100	177.500	9313.10	1378.21	-1296.74	-777.88	653958.68	585165.66	32°36'27.828"N	103°50'00.099"W	0.72	
10427.00	89.600	177.900	9313.27	1441.43	-1360.69	-775.32	653961.24	585101.71	32°36'27.195"N	103°50'00.073"W	1.00	
10522.00	88.700	178.500	9314.68	1535.38	-1455.63	-772.33	653964.23	585006.78	32°36'26.255"N	103°50'00.043"W	1.14	
10617.00	89.400	178.900	9316.25	1629.45	-1550.59	-770.18	653966.38	584911.82	32°36'25.315"N	103°50'00.023"W	0.85	
10712.00	88.800	180.300	9317.75	1723.72	-1645.57	-769.51	653967.05	584816.85	32°36'24.376"N	103°50'00.020"W	1.60	
10806.00	89.600	179.900	9319.06	1817.09	-1739.56	-769.68	653966.88	584722.86	32°36'23.446"N	103°50'00.028"W	0.95	
10901.00	89.700	180.500	9319.64	1911.49	-1834.56	-770.01	653966.55	584627.87	32°36'22.506"N	103°50'00.037"W	0.64	
10996.00	89.700	180.900	9320.14	2005.97	-1929.55	-771.17	653965.39	584532.89	32°36'21.566"N	103°50'00.055"W	0.42	



Actual Wellpath Report

No.252H AWP

Page 5 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.252H SHL
Area	Eddy County, NM	Well	No.252H
Field	Big Eddy	Wellbore	No.252H AWB
Facility	Big Eddy Unit No.251H & No.252H		

WELLPATH DATA (175 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
11091.00	89.000	181.500	9321.21	2100.54	-2024.52	-773.16	653963.40	584437.92	32°36'20.626"N	103°50'00.084"W	0.97	
11186.00	88.000	179.300	9323.70	2194.93	-2119.48	-773.82	653962.74	584342.97	32°36'19.687"N	103°50'00.097"W	2.54	
11281.00	88.300	178.400	9326.77	2289.00	-2214.41	-771.92	653964.64	584248.04	32°36'18.747"N	103°50'00.080"W	1.00	
11376.00	89.000	176.700	9329.01	2382.77	-2309.29	-767.86	653968.70	584153.17	32°36'17.808"N	103°50'00.038"W	1.93	
11471.00	91.100	176.800	9328.92	2476.35	-2404.14	-762.47	653974.09	584058.33	32°36'16.869"N	103°49'59.980"W	2.21	
11477.00	91.400	176.400	9328.79	2482.25	-2410.12	-762.12	653974.44	584052.34	32°36'16.810"N	103°49'59.976"W	8.33	
11572.00	90.000	176.900	9327.63	2575.80	-2504.95	-756.57	653979.99	583957.52	32°36'15.872"N	103°49'59.916"W	1.56	
11667.00	90.200	177.300	9327.47	2669.48	-2599.83	-751.76	653984.80	583862.65	32°36'14.933"N	103°49'59.865"W	0.47	
11762.00	89.500	177.800	9327.71	2763.28	-2694.74	-747.70	653988.86	583767.75	32°36'13.993"N	103°49'59.823"W	0.91	
11857.00	89.600	178.400	9328.46	2857.22	-2789.69	-744.55	653992.01	583672.81	32°36'13.054"N	103°49'59.792"W	0.64	
11952.00	89.700	178.600	9329.04	2951.25	-2884.65	-742.06	653994.50	583577.85	32°36'12.114"N	103°49'59.768"W	0.24	
12047.00	89.300	179.800	9329.87	3045.44	-2979.64	-740.74	653995.82	583482.87	32°36'11.174"N	103°49'59.757"W	1.33	
12142.00	89.000	179.600	9331.28	3139.73	-3074.62	-740.24	653996.32	583387.89	32°36'10.234"N	103°49'59.757"W	0.38	
12237.00	89.100	179.100	9332.85	3233.95	-3169.61	-739.16	653997.40	583292.91	32°36'09.294"N	103°49'59.749"W	0.54	
12332.00	89.200	179.600	9334.26	3328.16	-3264.59	-738.08	653998.48	583197.94	32°36'08.354"N	103°49'59.742"W	0.54	
12427.00	89.100	176.700	9335.67	3422.10	-3359.52	-735.02	654001.54	583103.01	32°36'07.415"N	103°49'59.711"W	3.05	
12521.00	89.100	176.300	9337.15	3514.61	-3453.33	-729.28	654007.28	583009.21	32°36'06.486"N	103°49'59.650"W	0.43	
12616.00	89.100	178.200	9338.64	3608.32	-3548.21	-724.72	654011.84	582914.34	32°36'05.547"N	103°49'59.601"W	2.00	
12711.00	89.000	178.300	9340.22	3702.28	-3643.15	-721.82	654014.74	582819.40	32°36'04.608"N	103°49'59.573"W	0.15	
12806.00	89.000	179.000	9341.87	3796.34	-3738.11	-719.58	654016.97	582724.45	32°36'03.668"N	103°49'59.552"W	0.74	
12901.00	89.100	177.800	9343.45	3890.34	-3833.05	-716.93	654019.63	582629.51	32°36'02.729"N	103°49'59.526"W	1.27	
12996.00	89.100	175.500	9344.94	3983.88	-3927.87	-711.38	654025.18	582534.69	32°36'01.790"N	103°49'59.466"W	2.42	
13091.00	89.100	175.200	9346.43	4077.02	-4022.55	-703.68	654032.88	582440.02	32°36'00.853"N	103°49'59.382"W	0.32	
13186.00	89.500	175.300	9347.59	4170.13	-4117.22	-695.81	654040.74	582345.36	32°35'59.916"N	103°49'59.295"W	0.43	
13280.00	89.600	175.700	9348.33	4262.35	-4210.92	-688.44	654048.12	582251.66	32°35'58.988"N	103°49'59.214"W	0.44	
13375.00	89.600	176.000	9349.00	4355.66	-4305.67	-681.56	654054.99	582156.92	32°35'58.050"N	103°49'59.139"W	0.32	
13470.00	89.400	176.100	9349.83	4449.04	-4400.44	-675.02	654061.53	582062.16	32°35'57.112"N	103°49'59.067"W	0.24	
13565.00	89.500	176.500	9350.74	4542.48	-4495.24	-668.89	654067.66	581967.36	32°35'56.174"N	103°49'59.001"W	0.43	
13660.00	89.800	175.200	9351.32	4635.79	-4589.99	-662.02	654074.54	581872.62	32°35'55.236"N	103°49'58.926"W	1.40	
13754.00	89.700	175.900	9351.73	4728.03	-4683.70	-654.72	654081.83	581778.91	32°35'54.309"N	103°49'58.846"W	0.75	
13849.00	89.600	177.300	9352.31	4821.57	-4778.53	-649.09	654087.46	581684.09	32°35'53.370"N	103°49'58.785"W	1.48	
13944.00	89.600	178.200	9352.97	4915.42	-4873.45	-645.36	654091.19	581589.17	32°35'52.431"N	103°49'58.747"W	0.95	
14039.00	89.500	179.200	9353.72	5009.50	-4968.43	-643.20	654093.35	581494.21	32°35'51.491"N	103°49'58.727"W	1.06	
14134.00	89.700	179.900	9354.38	5103.76	-5063.42	-642.46	654094.09	581399.22	32°35'50.551"N	103°49'58.723"W	0.77	
14229.00	89.600	180.400	9354.96	5198.15	-5158.42	-642.71	654093.85	581304.23	32°35'49.611"N	103°49'58.731"W	0.54	
14324.00	89.700	181.200	9355.54	5292.65	-5253.41	-644.03	654092.52	581209.25	32°35'48.671"N	103°49'58.752"W	0.85	
14419.00	89.500	182.100	9356.20	5387.28	-5348.36	-646.77	654089.78	581114.30	32°35'47.732"N	103°49'58.789"W	0.97	
14513.00	89.100	182.000	9357.35	5480.97	-5442.30	-650.13	654086.42	581020.37	32°35'46.802"N	103°49'58.834"W	0.44	
14555.00	89.100	179.900	9358.01	5522.75	-5484.28	-650.83	654085.73	580978.39	32°35'46.387"N	103°49'58.844"W	5.00	
14625.00	89.100	179.900	9359.11	5592.26	-5554.27	-650.70	654085.85	580908.40	32°35'45.694"N	103°49'58.847"W	0.00	Proj to Bit



Actual Wellpath Report

No.252H AWP

Page 6 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.252H SHL
Area	Eddy County, NM	Well	No.252H
Field	Big Eddy	Wellbore	No.252H AWB
Facility	Big Eddy Unit No.251H & No.252H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Target A		9248.00	-1993.14	-720.16	654016.40	584469.30	32°36'20.934"N	103°49'59.463"W	point
Target B		9257.00	-3989.57	-719.66	654016.90	582473.00	32°36'01.180"N	103°49'59.567"W	point
Landing Point		9272.00	-618.15	-720.46	654016.10	585844.20	32°36'34.539"N	103°49'59.391"W	point
Target C		9301.00	-5489.07	-714.36	654022.20	580973.60	32°35'46.343"N	103°49'59.587"W	point
No.252H Target #1		9351.00	-634.25	-687.96	654048.60	585828.10	32°36'34.379"N	103°49'59.011"W	point
No.252H PBHL		9361.00	-5557.30	-648.96	654087.59	580905.37	32°35'45.664"N	103°49'58.826"W	point

WELLPATH COMPOSITION - Ref Wellbore: No.252H AWB Ref Wellpath: No.252H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	1418.00	Generic gyro - northseeking (Standard)	Gyro	No.252H AWB
1418.00	2280.00	NaviTrak (Standard)	BHI / Navitrak MWD <1525-2599>	No.252H AWB
2280.00	4333.00	Generic gyro - northseeking (Standard)	Gyrodata Gyro	No.252H AWB
4333.00	14555.00	NaviTrak (Standard)	BHI MWD NaviTrak2 <4399-XXXX>	No.252H AWB
14555.00	14625.00	Blind Drilling (std)	Projection to bit	No.252H AWB