

Lateral #1

30-015-38112

BOPCO, L.P.

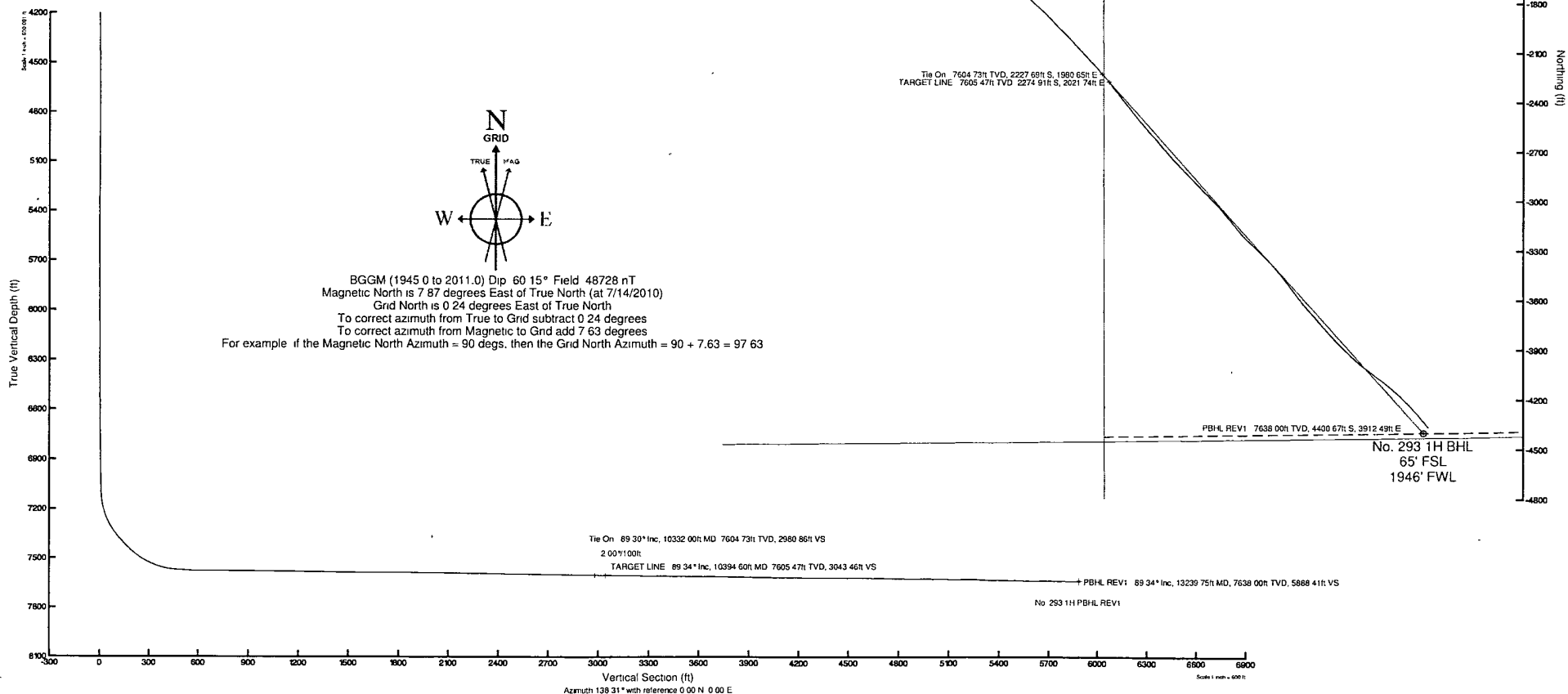
Location Eddy County, NM
Field Poker Lake Unit
Facility Poker Lake Unit No. 293

Slot No. 293 SHL - 810' FNL & 1980' FEL
Well No. 293 1H
Wellbore No. 293 1H AWB



Plot reference wellpath is No. 293 1H AWB, PA, C1 vs Actual (FINAL)	
True vertical depths are referenced to Rig on No. 293H SHL (KB)	Grid System: NAD27 / TM New Mexico State Planes: Eastern Zone (3001) US feet
Measured depths are referenced to Rig on No. 293H SHL (KB)	North Reference: Grid north
Rig on No. 293H SHL (KB) to Mean Sea Level: 3362 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Poker Lake Unit No. 293): -3343 feet	Depths are in feet
Coordinates are in feet referenced to Surface Location	Created by: Victor Hernandez on 10/27/2010

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (1/100ft)	VS (ft)
Tie On	10332.00	89.300	139.600	7694.73	2227.69	1980.65	3.20	2980.86
TARGET LINE	10394.60	89.345	138.349	7605.47	-2274.91	2021.74	2.00	3043.46
PBHL REV1	13239.75	89.345	138.349	7638.00	-4400.67	3912.49	0.00	5888.41





Actual Wellpath Report

No. 293 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 1H
Field	Poker Lake Unit	Wellbore	No. 293 1H AWB
Facility	Poker Lake Unit No. 293	Sidetrack from	No. 293 AWB at 7040.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999931	Report Generated	10/27/2010 at 10:00:57 AM
Convergence at slot	0.24° East	Database/Source file	WA_Midland/No. 293_1H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	639131.39	439732.40	32°12'29.308"N	103°53'00.591"W
Facility Reference Pt			639131.39	439732.40	32°12'29.308"N	103°53'00.591"W
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 293H SHL (KB) to GL	19.00ft
Horizontal Reference Pt	Surface Location	Rig on No. 293H SHL (KB) to Mean Sea Level	3362.00ft
Vertical Reference Pt	Rig on No. 293H SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 293H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	138.31°



Actual Wellpath Report

No. 293 1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 1H
Field	Poker Lake Unit	Wellbore	No. 293 1H AWP
Facility	Poker Lake Unit No. 293	Sidetrack from	No. 293 AWP at 7040.00 MD

WELLPATH DATA (159 stations)											
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
0.00	0.000	349.340	0.00	0.00	0.00	0.00	639131.39	439732.40	32°12'29.308"N	103°53'00.591"W	0.00
100.00	0.070	349.340	100.00	-0.05	0.06	-0.01	639131.38	439732.46	32°12'29.309"N	103°53'00.591"W	0.07
200.00	0.060	11.270	200.00	-0.14	0.17	-0.01	639131.38	439732.57	32°12'29.310"N	103°53'00.591"W	0.03
300.00	0.090	337.730	300.00	-0.24	0.30	-0.03	639131.36	439732.70	32°12'29.311"N	103°53'00.592"W	0.05
400.00	0.180	351.310	400.00	-0.45	0.52	-0.09	639131.30	439732.92	32°12'29.314"N	103°53'00.592"W	0.09
500.00	0.160	324.500	500.00	-0.72	0.79	-0.19	639131.20	439733.19	32°12'29.316"N	103°53'00.593"W	0.08
600.00	0.150	12.400	600.00	-0.93	1.03	-0.24	639131.15	439733.43	32°12'29.319"N	103°53'00.594"W	0.13
700.00	0.090	359.860	700.00	-1.07	1.24	-0.22	639131.17	439733.64	32°12'29.321"N	103°53'00.594"W	0.07
800.00	0.260	7.510	800.00	-1.28	1.54	-0.19	639131.20	439733.94	32°12'29.324"N	103°53'00.593"W	0.17
900.00	0.310	358.160	900.00	-1.63	2.04	-0.16	639131.23	439734.44	32°12'29.329"N	103°53'00.593"W	0.07
1000.00	0.720	11.000	999.99	-2.22	2.93	-0.05	639131.34	439735.33	32°12'29.337"N	103°53'00.592"W	0.42
1100.00	0.960	14.050	1099.98	-3.07	4.36	0.27	639131.66	439736.76	32°12'29.351"N	103°53'00.588"W	0.24
1200.00	0.980	11.900	1199.97	-4.05	6.01	0.65	639132.04	439738.40	32°12'29.368"N	103°53'00.583"W	0.04
1300.00	0.980	10.570	1299.95	-5.08	7.68	0.98	639132.37	439740.08	32°12'29.384"N	103°53'00.580"W	0.02
1400.00	0.910	14.160	1399.94	-6.05	9.29	1.33	639132.72	439741.69	32°12'29.400"N	103°53'00.575"W	0.09
1500.00	0.950	23.670	1499.93	-6.84	10.82	1.86	639133.25	439743.22	32°12'29.415"N	103°53'00.569"W	0.16
1600.00	0.830	35.940	1599.91	-7.34	12.17	2.62	639134.01	439744.57	32°12'29.429"N	103°53'00.560"W	0.22
1700.00	0.840	38.290	1699.90	-7.63	13.33	3.50	639134.89	439745.73	32°12'29.440"N	103°53'00.550"W	0.04
1800.00	0.740	40.480	1799.89	-7.84	14.40	4.37	639135.76	439746.80	32°12'29.451"N	103°53'00.540"W	0.10
1900.00	0.770	41.180	1899.89	-8.01	15.39	5.23	639136.62	439747.79	32°12'29.460"N	103°53'00.530"W	0.03
2000.00	0.610	45.350	1999.88	-8.12	16.27	6.05	639137.44	439748.67	32°12'29.469"N	103°53'00.520"W	0.17
2100.00	0.290	37.870	2099.87	-8.20	16.85	6.59	639137.98	439749.25	32°12'29.475"N	103°53'00.514"W	0.32
2200.00	0.140	32.840	2199.87	-8.28	17.15	6.81	639138.20	439749.55	32°12'29.478"N	103°53'00.511"W	0.15
2300.00	0.160	277.210	2299.87	-8.41	17.27	6.74	639138.13	439749.67	32°12'29.479"N	103°53'00.512"W	0.25
2400.00	0.230	223.330	2399.87	-8.50	17.14	6.46	639137.85	439749.54	32°12'29.478"N	103°53'00.515"W	0.19
2500.00	0.170	195.760	2499.87	-8.40	16.85	6.28	639137.67	439749.25	32°12'29.475"N	103°53'00.517"W	0.11
2600.00	0.350	217.250	2599.87	-8.27	16.47	6.06	639137.45	439748.87	32°12'29.471"N	103°53'00.520"W	0.20
2700.00	0.320	215.570	2699.87	-8.15	16.00	5.71	639137.10	439748.39	32°12'29.466"N	103°53'00.524"W	0.03
2800.00	0.650	229.980	2799.87	-8.10	15.40	5.11	639136.50	439747.80	32°12'29.461"N	103°53'00.531"W	0.35
2900.00	0.920	231.040	2899.86	-8.16	14.53	4.06	639135.45	439746.93	32°12'29.452"N	103°53'00.543"W	0.27



Actual Wellpath Report

No. 293 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 1H
Field	Poker Lake Unit	Wellbore	No. 293 1H AWP
Facility	Poker Lake Unit No. 293	Sidetrack from	No. 293 AWP at 7040.00 MD

WELLPATH DATA (159 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
3000.00	0.610	249.830	2999.85	-8.39	13.85	2.93	639134.32	439746.25	32°12'29.445"N	103°53'00.557"W	0.39
3100.00	0.350	257.110	3099.84	-8.73	13.59	2.13	639133.52	439745.99	32°12'29.443"N	103°53'00.566"W	0.27
3200.00	0.230	182.310	3199.84	-8.73	13.33	1.83	639133.22	439745.72	32°12'29.440"N	103°53'00.569"W	0.36
3300.00	0.540	161.100	3299.84	-8.16	12.68	1.97	639133.36	439745.08	32°12'29.434"N	103°53'00.568"W	0.34
3400.00	1.020	182.650	3399.83	-7.08	11.34	2.08	639133.47	439743.74	32°12'29.421"N	103°53'00.567"W	0.55
3500.00	1.110	182.490	3499.81	-5.75	9.49	2.00	639133.39	439741.89	32°12'29.402"N	103°53'00.568"W	0.09
3600.00	0.590	177.910	3599.80	-4.66	8.01	1.98	639133.37	439740.40	32°12'29.387"N	103°53'00.568"W	0.52
3700.00	0.570	172.150	3699.80	-3.85	7.00	2.06	639133.45	439739.40	32°12'29.377"N	103°53'00.567"W	0.06
3800.00	0.460	158.950	3799.79	-3.06	6.13	2.28	639133.67	439738.53	32°12'29.369"N	103°53'00.565"W	0.16
3900.00	0.270	158.810	3899.79	-2.47	5.54	2.51	639133.90	439737.94	32°12'29.363"N	103°53'00.562"W	0.19
4000.00	0.270	173.890	3999.79	-2.06	5.08	2.62	639134.01	439737.48	32°12'29.359"N	103°53'00.561"W	0.07
4100.00	0.250	159.030	4099.79	-1.66	4.64	2.72	639134.11	439737.04	32°12'29.354"N	103°53'00.559"W	0.07
4200.00	0.300	142.290	4199.79	-1.19	4.23	2.96	639134.35	439736.63	32°12'29.350"N	103°53'00.557"W	0.09
4300.00	0.300	146.150	4299.79	-0.67	3.81	3.26	639134.65	439736.21	32°12'29.346"N	103°53'00.553"W	0.02
4400.00	0.310	161.460	4399.79	-0.17	3.34	3.50	639134.88	439735.74	32°12'29.341"N	103°53'00.550"W	0.08
4500.00	0.310	196.990	4499.78	0.22	2.82	3.50	639134.89	439735.22	32°12'29.336"N	103°53'00.550"W	0.19
4600.00	0.400	212.800	4599.78	0.46	2.27	3.23	639134.62	439734.67	32°12'29.331"N	103°53'00.554"W	0.13
4700.00	0.510	229.780	4699.78	0.54	1.69	2.71	639134.09	439734.09	32°12'29.325"N	103°53'00.560"W	0.17
4800.00	0.570	241.840	4799.78	0.41	1.17	1.93	639133.32	439733.57	32°12'29.320"N	103°53'00.569"W	0.13
4900.00	0.490	247.070	4899.77	0.16	0.76	1.09	639132.48	439733.16	32°12'29.316"N	103°53'00.579"W	0.09
5000.00	0.430	249.350	4999.77	-0.11	0.46	0.35	639131.74	439732.86	32°12'29.313"N	103°53'00.587"W	0.06
5100.00	0.490	248.560	5099.76	-0.40	0.18	-0.40	639130.99	439732.58	32°12'29.310"N	103°53'00.596"W	0.06
5200.00	0.440	254.670	5199.76	-0.72	-0.08	-1.17	639130.22	439732.32	32°12'29.308"N	103°53'00.605"W	0.07
5300.00	0.360	246.730	5299.76	-0.99	-0.31	-1.83	639129.56	439732.09	32°12'29.305"N	103°53'00.613"W	0.10
5400.00	0.260	256.020	5399.76	-1.19	-0.49	-2.34	639129.05	439731.91	32°12'29.304"N	103°53'00.619"W	0.11
5500.00	0.090	55.890	5499.76	-1.29	-0.50	-2.49	639128.90	439731.90	32°12'29.304"N	103°53'00.620"W	0.35
5600.00	0.040	126.730	5599.76	-1.24	-0.47	-2.40	639128.99	439731.93	32°12'29.304"N	103°53'00.619"W	0.09
5700.00	0.280	175.320	5699.76	-1.01	-0.74	-2.35	639129.04	439731.66	32°12'29.301"N	103°53'00.619"W	0.26
5800.00	0.360	183.760	5799.75	-0.60	-1.30	-2.35	639129.04	439731.10	32°12'29.296"N	103°53'00.619"W	0.09
5900.00	0.430	211.340	5899.75	-0.27	-1.93	-2.57	639128.82	439730.47	32°12'29.289"N	103°53'00.621"W	0.20



Actual Wellpath Report

No. 293 1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 1H
Field	Poker Lake Unit	Wellbore	No. 293 1H AWP
Facility	Poker Lake Unit No. 293	Sidetrack from	No. 293 AWP at 7040.00 MD

WELLPATH DATA (159 stations)											
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
6000.00	0.500	219.170	5999.75	-0.09	-2.59	-3.04	639128.35	439729.81	32°12'29.283"N	103°53'00.627"W	0.09
6100.00	0.570	216.120	6099.74	0.09	-3.33	-3.61	639127.78	439729.07	32°12'29.276"N	103°53'00.633"W	0.08
6200.00	0.710	215.930	6199.74	0.32	-4.23	-4.26	639127.13	439728.17	32°12'29.267"N	103°53'00.641"W	0.14
6300.00	0.710	204.580	6299.73	0.71	-5.30	-4.88	639126.51	439727.10	32°12'29.256"N	103°53'00.648"W	0.14
6400.00	0.580	199.960	6399.72	1.20	-6.34	-5.31	639126.08	439726.06	32°12'29.246"N	103°53'00.653"W	0.14
6500.00	0.700	193.490	6499.72	1.79	-7.41	-5.63	639125.76	439725.00	32°12'29.235"N	103°53'00.657"W	0.14
6600.00	0.800	197.880	6599.71	2.49	-8.66	-5.99	639125.40	439723.74	32°12'29.223"N	103°53'00.661"W	0.12
6700.00	0.800	178.030	6699.70	3.38	-10.03	-6.18	639125.21	439722.37	32°12'29.209"N	103°53'00.664"W	0.28
6800.00	0.980	180.960	6799.69	4.54	-11.58	-6.17	639125.22	439720.82	32°12'29.194"N	103°53'00.664"W	0.19
6900.00	0.990	180.860	6899.67	5.81	-13.30	-6.19	639125.20	439719.10	32°12'29.177"N	103°53'00.664"W	0.01
7000.00	1.120	171.600	6999.66	7.26	-15.13	-6.06	639125.33	439717.27	32°12'29.159"N	103°53'00.663"W	0.21
7040.00	1.300	174.470	7039.65	7.96	-15.97	-5.96	639125.43	439716.43	32°12'29.151"N	103°53'00.662"W	0.47
7076.00	1.500	163.000	7075.64	8.71	-16.82	-5.79	639125.60	439715.58	32°12'29.142"N	103°53'00.659"W	0.95
7108.00	3.100	151.100	7107.61	9.94	-17.98	-5.25	639126.14	439714.42	32°12'29.131"N	103°53'00.653"W	5.19
7139.00	6.200	146.800	7138.50	12.41	-20.12	-3.92	639127.47	439712.28	32°12'29.109"N	103°53'00.638"W	10.06
7170.00	10.100	145.500	7169.19	16.77	-23.76	-1.47	639129.92	439708.64	32°12'29.073"N	103°53'00.610"W	12.59
7201.00	14.300	146.000	7199.48	23.26	-29.18	2.22	639133.61	439703.23	32°12'29.020"N	103°53'00.567"W	13.55
7232.00	18.200	142.800	7229.23	31.88	-36.21	7.29	639138.67	439696.19	32°12'28.950"N	103°53'00.508"W	12.90
7263.00	23.500	139.200	7258.20	42.90	-44.75	14.26	639145.64	439687.65	32°12'28.865"N	103°53'00.428"W	17.58
7294.00	27.500	137.300	7286.17	56.24	-54.69	23.15	639154.54	439677.71	32°12'28.766"N	103°53'00.325"W	13.17
7325.00	31.200	139.700	7313.19	71.43	-66.08	33.20	639164.59	439666.32	32°12'28.653"N	103°53'00.208"W	12.52
7357.00	34.400	137.000	7340.08	88.76	-79.02	44.73	639176.12	439653.39	32°12'28.525"N	103°53'00.075"W	10.99
7388.00	39.200	138.700	7364.90	107.32	-92.79	57.18	639188.56	439639.62	32°12'28.388"N	103°52'59.930"W	15.83
7419.00	42.500	139.900	7388.35	127.59	-108.16	70.39	639201.78	439624.24	32°12'28.235"N	103°52'59.777"W	10.94
7450.00	43.700	138.900	7410.98	148.77	-124.24	84.18	639215.56	439608.16	32°12'28.075"N	103°52'59.618"W	4.45
7482.00	45.400	138.100	7433.79	171.21	-141.06	99.05	639230.44	439591.35	32°12'27.908"N	103°52'59.445"W	5.59
7512.00	48.300	138.200	7454.30	193.10	-157.36	113.65	639245.04	439575.05	32°12'27.747"N	103°52'59.276"W	9.67
7544.00	52.100	137.400	7474.78	217.68	-175.56	130.17	639261.55	439556.85	32°12'27.566"N	103°52'59.085"W	12.03
7575.00	56.000	137.300	7492.98	242.76	-194.02	147.17	639278.55	439538.40	32°12'27.382"N	103°52'58.888"W	12.58
7606.00	59.900	137.400	7509.42	269.03	-213.34	164.97	639296.35	439519.08	32°12'27.190"N	103°52'58.682"W	12.58



Actual Wellpath Report

No. 293 1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 1H
Field	Poker Lake Unit	Wellbore	No. 293 1H AWP
Facility	Poker Lake Unit No. 293	Sidetrack from	No. 293 AWP at 7040.00 MD

WELLPATH DATA (159 stations)											
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
7637.00	63.300	137.100	7524.17	296.29	-233.36	183.48	639314.85	439499.06	32°12'26.992"N	103°52'58.467"W	11.00
7667.00	66.900	137.100	7536.79	323.49	-253.29	202.00	639333.37	439479.13	32°12'26.794"N	103°52'58.253"W	12.00
7699.00	71.600	137.400	7548.13	353.40	-275.26	222.30	639353.68	439457.16	32°12'26.575"N	103°52'58.018"W	14.71
7730.00	75.900	137.700	7556.80	383.15	-297.21	242.38	639373.76	439435.21	32°12'26.357"N	103°52'57.785"W	13.90
7760.00	80.100	138.700	7563.04	412.49	-319.09	261.94	639393.31	439413.34	32°12'26.140"N	103°52'57.558"W	14.37
7792.00	82.800	139.100	7567.79	444.13	-342.93	282.74	639414.11	439389.49	32°12'25.903"N	103°52'57.317"W	8.53
7823.00	85.500	139.000	7570.95	474.96	-366.22	302.95	639434.31	439366.21	32°12'25.672"N	103°52'57.083"W	8.72
7854.00	87.400	139.000	7572.87	505.90	-389.57	323.24	639454.61	439342.86	32°12'25.440"N	103°52'56.848"W	6.13
7885.00	87.800	138.500	7574.17	536.87	-412.86	343.67	639475.03	439319.57	32°12'25.209"N	103°52'56.612"W	2.06
7917.00	88.100	138.500	7575.32	568.85	-436.81	364.86	639496.22	439295.62	32°12'24.971"N	103°52'56.366"W	0.94
7948.00	89.100	139.000	7576.07	599.84	-460.11	385.29	639516.65	439272.33	32°12'24.739"N	103°52'56.130"W	3.61
7979.00	89.800	138.400	7576.37	630.84	-483.39	405.75	639537.11	439249.04	32°12'24.508"N	103°52'55.893"W	2.97
8010.00	90.800	138.500	7576.21	661.84	-506.59	426.31	639557.67	439225.84	32°12'24.278"N	103°52'55.655"W	3.24
8040.00	89.900	138.500	7576.03	691.84	-529.06	446.19	639577.55	439203.38	32°12'24.055"N	103°52'55.424"W	3.00
8122.00	89.000	136.400	7576.81	773.82	-589.46	501.63	639632.99	439142.98	32°12'23.455"N	103°52'54.782"W	2.79
8219.00	89.400	137.900	7578.17	870.79	-660.57	567.59	639698.94	439071.88	32°12'22.748"N	103°52'54.018"W	1.60
8314.00	89.500	139.500	7579.08	965.78	-731.93	630.29	639761.63	439000.52	32°12'22.039"N	103°52'53.292"W	1.69
8410.00	89.400	140.700	7580.00	1061.72	-805.58	691.86	639823.20	438926.88	32°12'21.308"N	103°52'52.579"W	1.25
8506.00	89.000	141.800	7581.34	1157.59	-880.44	751.94	639883.28	438852.03	32°12'20.565"N	103°52'51.883"W	1.22
8602.00	89.000	140.500	7583.02	1253.45	-955.19	812.15	639943.48	438777.28	32°12'19.823"N	103°52'51.186"W	1.35
8697.00	89.000	137.100	7584.68	1348.42	-1026.65	874.71	640006.04	438705.83	32°12'19.113"N	103°52'50.462"W	3.58
8793.00	88.900	135.800	7586.43	1444.35	-1096.21	940.84	640072.16	438636.27	32°12'18.422"N	103°52'49.695"W	1.36
8890.00	89.400	133.500	7587.87	1541.14	-1164.37	1009.83	640141.15	438568.12	32°12'17.744"N	103°52'48.896"W	2.43
8987.00	89.400	136.500	7588.89	1637.96	-1232.95	1078.41	640209.73	438499.54	32°12'17.063"N	103°52'48.101"W	3.09
9084.00	89.600	138.500	7589.74	1734.94	-1304.45	1143.94	640275.25	438428.04	32°12'16.353"N	103°52'47.342"W	2.07
9181.00	89.500	141.700	7590.50	1831.88	-1378.86	1206.15	640337.45	438353.64	32°12'15.614"N	103°52'46.622"W	3.30
9277.00	89.500	142.100	7591.34	1927.68	-1454.40	1265.38	640396.68	438278.10	32°12'14.864"N	103°52'45.936"W	0.42
9372.00	89.400	143.000	7592.25	2022.42	-1529.82	1323.15	640454.44	438202.69	32°12'14.115"N	103°52'45.267"W	0.95
9468.00	89.400	141.500	7593.25	2118.18	-1605.71	1381.91	640513.21	438126.80	32°12'13.362"N	103°52'44.587"W	1.56
9563.00	89.400	138.400	7594.25	2213.13	-1678.42	1443.03	640574.32	438054.10	32°12'12.640"N	103°52'43.879"W	3.26



Actual Wellpath Report

No. 293 1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 1H
Field	Poker Lake Unit	Wellbore	No. 293 1H AWB
Facility	Poker Lake Unit No. 293	Sidetrack from	No. 293 AWB at 7040.00 MD

WELLPATH DATA (159 stations)											
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
9660.00	89.000	134.700	7595.60	2310.05	-1748.82	1509.72	640641.00	437983.70	32°12'11.940"N	103°52'43.107"W	3.84
9756.00	89.700	132.600	7596.69	2405.73	-1815.08	1579.18	640710.45	437917.45	32°12'11.282"N	103°52'42.302"W	2.31
9853.00	89.100	134.100	7597.71	2502.35	-1881.66	1649.70	640780.98	437850.87	32°12'10.620"N	103°52'41.484"W	1.67
9948.00	89.200	134.700	7599.12	2597.12	-1948.12	1717.57	640848.84	437784.42	32°12'09.959"N	103°52'40.698"W	0.64
10044.00	89.100	135.900	7600.54	2692.98	-2016.35	1785.09	640916.35	437716.20	32°12'09.281"N	103°52'39.915"W	1.25
10140.00	89.200	137.400	7601.97	2788.93	-2086.15	1850.98	640982.24	437646.40	32°12'08.588"N	103°52'39.152"W	1.57
10235.00	89.100	136.500	7603.38	2883.89	-2155.56	1915.82	641047.08	437576.99	32°12'07.898"N	103°52'38.401"W	0.95
10332.00	89.300	139.600	7604.73	2980.86	-2227.69	1980.65	641111.90	437504.87	32°12'07.182"N	103°52'37.650"W	3.20
10428.00	89.200	142.100	7605.99	3076.75	-2302.12	2041.25	641172.50	437430.44	32°12'06.443"N	103°52'36.948"W	2.61
10525.00	89.200	141.600	7607.34	3173.56	-2378.39	2101.16	641232.40	437354.17	32°12'05.686"N	103°52'36.255"W	0.52
10620.00	89.200	142.000	7608.67	3268.37	-2453.04	2159.91	641291.14	437279.53	32°12'04.944"N	103°52'35.575"W	0.42
10715.00	89.000	140.200	7610.16	3363.24	-2526.96	2219.55	641350.79	437205.61	32°12'04.210"N	103°52'34.885"W	1.91
10812.00	89.100	138.200	7611.77	3460.21	-2600.38	2282.92	641414.15	437132.21	32°12'03.481"N	103°52'34.151"W	2.06
10908.00	89.100	139.500	7613.28	3556.20	-2672.66	2346.08	641477.31	437059.93	32°12'02.763"N	103°52'33.419"W	1.35
11002.00	89.100	137.800	7614.75	3650.18	-2743.21	2408.18	641539.40	436989.39	32°12'02.063"N	103°52'32.700"W	1.81
11098.00	89.700	135.800	7615.76	3746.14	-2813.18	2473.89	641605.10	436919.42	32°12'01.367"N	103°52'31.939"W	2.17
11194.00	89.600	136.100	7616.34	3842.05	-2882.18	2540.63	641671.84	436850.43	32°12'00.682"N	103°52'31.166"W	0.33
11291.00	89.600	135.300	7617.02	3938.95	-2951.60	2608.38	641739.58	436781.01	32°11'59.992"N	103°52'30.381"W	0.82
11387.00	89.500	137.200	7617.78	4034.88	-3020.94	2674.76	641805.96	436711.67	32°11'59.303"N	103°52'29.612"W	1.98
11483.00	89.600	139.900	7618.53	4130.87	-3092.89	2738.30	641869.49	436639.73	32°11'58.588"N	103°52'28.876"W	2.81
11579.00	89.500	142.000	7619.28	4226.76	-3167.43	2798.77	641929.96	436565.19	32°11'57.848"N	103°52'28.176"W	2.19
11674.00	89.800	134.100	7619.87	4321.68	-3238.03	2862.23	641993.41	436494.60	32°11'57.147"N	103°52'27.441"W	8.32
11769.00	89.700	134.300	7620.28	4416.43	-3304.26	2930.33	642061.51	436428.37	32°11'56.489"N	103°52'26.652"W	0.24
11864.00	89.700	137.400	7620.78	4511.33	-3372.42	2996.49	642127.67	436360.22	32°11'55.812"N	103°52'25.885"W	3.26
11957.00	89.400	142.200	7621.51	4604.27	-3443.43	3056.50	642187.68	436289.22	32°11'55.106"N	103°52'25.190"W	5.17
12053.00	89.100	143.400	7622.76	4699.97	-3519.88	3114.54	642245.71	436212.76	32°11'54.347"N	103°52'24.519"W	1.29
12148.00	89.000	142.200	7624.34	4794.66	-3595.54	3171.97	642303.13	436137.11	32°11'53.596"N	103°52'23.854"W	1.27
12243.00	89.200	138.800	7625.83	4889.56	-3668.83	3232.38	642363.54	436063.83	32°11'52.868"N	103°52'23.155"W	3.58
12339.00	89.500	139.100	7626.92	4985.55	-3741.22	3295.42	642426.57	435991.45	32°11'52.149"N	103°52'22.425"W	0.44
12435.00	89.400	137.600	7627.84	5081.54	-3812.95	3359.21	642490.36	435919.72	32°11'51.437"N	103°52'21.686"W	1.57



Actual Wellpath Report

No. 293 1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 1H
Field	Poker Lake Unit	Wellbore	No. 293 1H AWB
Facility	Poker Lake Unit No. 293	Sidetrack from	No. 293 AWB at 7040.00 MD

WELLPATH DATA (159 stations)											
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
12531.00	89.700	136.000	7628.60	5177.51	-3882.92	3424.92	642556.07	435849.75	32°11'50.742"N	103°52'20.925"W	1.70
12626.00	88.700	133.100	7629.92	5272.28	-3949.55	3492.61	642623.75	435783.12	32°11'50.079"N	103°52'20.140"W	3.23
12723.00	88.600	127.400	7632.21	5368.26	-4012.19	3566.59	642697.73	435720.50	32°11'49.457"N	103°52'19.283"W	5.88
12818.00	89.300	126.600	7633.95	5461.40	-4069.35	3642.45	642773.58	435663.34	32°11'48.888"N	103°52'18.403"W	1.12
12913.00	89.800	129.800	7634.70	5554.91	-4128.09	3717.09	642848.22	435604.61	32°11'48.303"N	103°52'17.537"W	3.41
13007.00	89.500	135.000	7635.27	5648.37	-4191.45	3786.48	642917.61	435541.25	32°11'47.673"N	103°52'16.733"W	5.54
13101.00	89.300	137.400	7636.26	5742.30	-4259.28	3851.54	642982.65	435473.42	32°11'46.999"N	103°52'15.979"W	2.56
13176.00	89.200	140.800	7637.24	5817.27	-4315.96	3900.63	643031.74	435416.74	32°11'46.436"N	103°52'15.411"W	4.53
13240.00	89.200	140.800	7638.13	5881.21	-4365.55	3941.08	643072.19	435367.16	32°11'45.944"N	103°52'14.943"W	0.00

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 293 1H PBHL		7665.00	-6061.40	5399.42	644530.43	433671.43	32°11'29.100"N	103°51'58.058"W	point

WELLPATH COMPOSITION					Ref Wellbore: No. 293 1H AWB	Ref Wellpath: No. 293 1H AWP
Start MD [ft]	End MD [ft]	Positional Uncertainty Model			Log Name/Comment	Wellbore
0.00	7040.00	Gyrodatta standard - Drop gyro or Multi-shot			GYRO (100 - 7040)	No. 293 AWB
7040.00	8040.00	NaviTrak (Standard)			MWD (7076 - 8506)	No. 293 1H AWB
8040.00	13176.00	NaviTrak (Standard)			ATK (8122 - 13176)	No. 293 1H AWB
13176.00	13240.00	Blind Drilling (std)			Projection to bit	No. 293 1H AWB