

Lateral #2

30-015-38112

BOPCO, L.P.

Location Eddy County, NM

Slot: No. 293 SHL - 810' FNL & 1980' FEL

Field: Poker Lake Unit

Well: No. 293 2H

Facility: Poker Lake Unit No. 293

Wellbore: No. 293 2H PWB

Well Profile Data

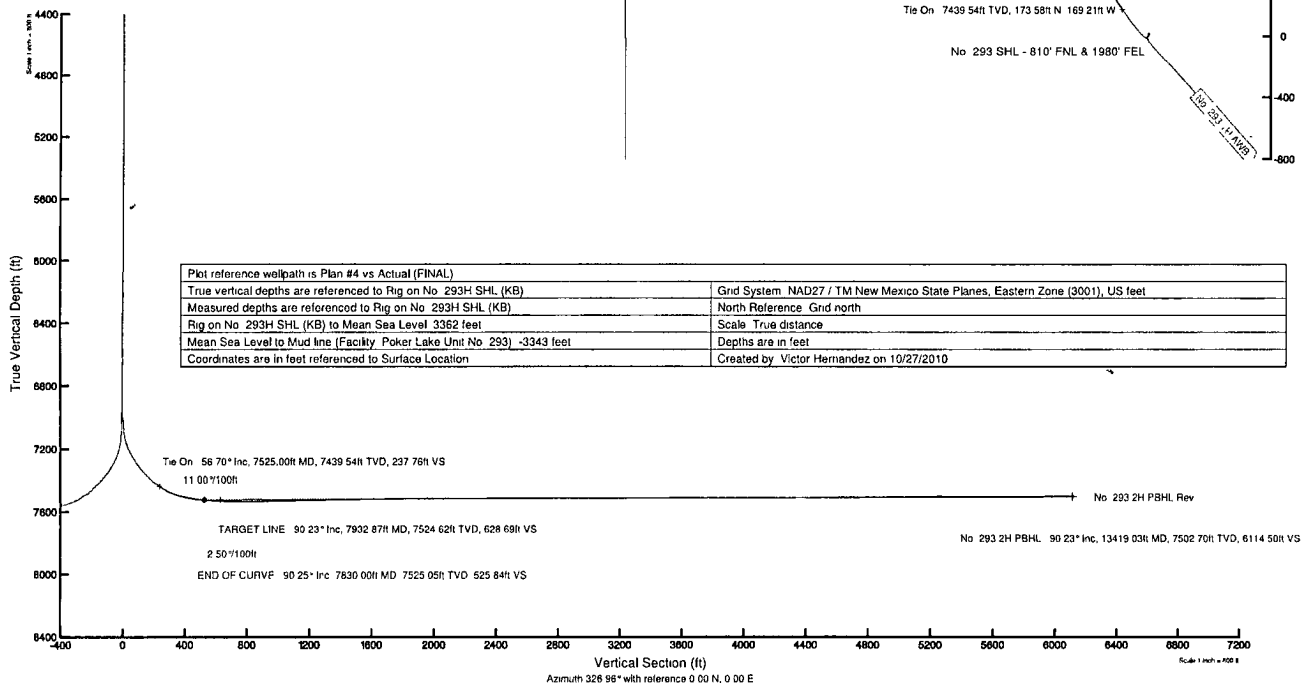
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	7525.00	56.700	325.000	7439.54	173.58	-169.21	0.00	237.76
END OF CURVE	7830.00	90.250	325.000	7525.05	409.69	-334.54	11.00	525.84
TARGET LINE	7932.87	90.229	327.572	7524.62	495.26	-391.63	2.50	628.69
No. 293 2H PBHL	13419.03	90.229	327.572	7502.70	5125.88	-3333.53	0.00	6114.50



**BAKER
HUGHES**



BGGM (1945.0 to 2011.0) Dip: 60.15° Field: 48728 nT
 Magnetic North is 7.87 degrees East of True North (at 7/14/2010)
 Grid North is 0.24 degrees East of True North
 To correct azimuth from True to Grid subtract 0.24 degrees
 To correct azimuth from Magnetic to Grid add 7.63 degrees
 For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.63 = 97.63





Actual Wellpath Report

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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 2H
Field	Poker Lake Unit	Wellbore	No. 293 2H AWB
Facility	Poker Lake Unit No. 293		

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 9:38:59 AM
Convergence at slot	0.24° East	Database/Source file	WA_Midland/No. 293_2H_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	326.96°



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Area	Eddy County, NM	Well	No. 293 2H
Field	Poker Lake Unit	Wellbore	No. 293 2H AWP
Facility	Poker Lake Unit No. 293		

WELLPATH DATA (154 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	0.06	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	0.15	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	0.27	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	0.49	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	0.77	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	1.00	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	1.16	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	1.40	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	1.80	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	2.48	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	3.50	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	4.68	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	5.90	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	7.06	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	8.06	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	8.77	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	9.27	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	9.69	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	10.05	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	10.34	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	10.53	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	10.66	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	10.80	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	10.85	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	10.70	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	10.50	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	10.30	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	10.13	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	9.97	14.53	4.06	639135.45	439746.93	32°12'29.452"N	103°53'00.543"W	0.27



Actual Wellpath Report

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Area	Eddy County, NM	Well	No. 293 2H
Field	Poker Lake Unit	Wellbore	No. 293 2H AWP
Facility	Poker Lake Unit No. 293		

WELLPATH DATA (154 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	10.01	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	10.23	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	10.17	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	9.55	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	8.37	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	6.86	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	5.63	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	4.74	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	3.90	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	3.28	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	2.83	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	2.41	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	1.94	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	1.41	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	0.89	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	0.45	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	0.14	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	-0.06	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	-0.07	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	0.04	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	0.20	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	0.37	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	0.57	-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	0.74	-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	0.87	-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	0.94	-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	0.91	-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	0.66	-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	0.20	-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	-0.22	-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 2H AWP

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Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 2H
Field	Poker Lake Unit	Wellbore	No. 293 2H AWP
Facility	Poker Lake Unit No. 293		

WELLPATH DATA (154 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	-0.51	-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	-0.82	-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	-1.22	-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	-1.78	-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	-2.41	-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	-3.14	-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	-4.00	-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	-5.04	-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	-6.34	-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	-7.77	-13.30	-6.19	639125.20	439719.10	32°12'29.177"N	103°53'00.664"W	0.01
7021.00	9.000	299.600	7020.20	-0.22	-9.66	-14.46	639116.93	439722.74	32°12'29.213"N	103°53'00.760"W	7.86
7050.00	4.100	279.300	7049.00	2.50	-8.37	-17.46	639113.94	439724.03	32°12'29.226"N	103°53'00.795"W	18.43
7081.00	3.900	286.400	7079.93	4.05	-7.89	-19.56	639111.83	439724.51	32°12'29.231"N	103°53'00.819"W	1.72
7113.00	9.700	300.400	7111.69	7.29	-6.22	-22.93	639108.46	439726.18	32°12'29.248"N	103°53'00.859"W	18.72
7144.00	14.900	308.500	7141.97	13.41	-2.42	-28.31	639103.08	439729.98	32°12'29.286"N	103°53'00.921"W	17.63
7175.00	20.600	312.700	7171.48	22.48	3.77	-35.44	639095.95	439736.17	32°12'29.347"N	103°53'01.004"W	18.83
7208.00	24.500	317.200	7201.96	34.86	12.73	-44.36	639087.03	439745.13	32°12'29.436"N	103°53'01.107"W	12.92
7239.00	27.900	318.500	7229.77	48.37	22.88	-53.54	639077.86	439755.28	32°12'29.537"N	103°53'01.213"W	11.12
7270.00	31.200	318.600	7256.73	63.49	34.34	-63.66	639067.74	439766.74	32°12'29.651"N	103°53'01.330"W	10.65
7302.00	34.400	318.600	7283.63	80.64	47.34	-75.12	639056.28	439779.74	32°12'29.780"N	103°53'01.463"W	10.00
7334.00	37.700	319.900	7309.50	99.30	61.61	-87.40	639043.99	439794.01	32°12'29.922"N	103°53'01.606"W	10.59
7366.00	40.800	320.900	7334.27	119.41	77.21	-100.30	639031.10	439809.61	32°12'30.077"N	103°53'01.755"W	9.89
7398.00	43.900	323.100	7357.92	140.88	94.20	-113.56	639017.84	439826.60	32°12'30.245"N	103°53'01.908"W	10.74
7429.00	46.400	325.100	7379.78	162.83	112.01	-126.44	639004.96	439844.40	32°12'30.422"N	103°53'02.057"W	9.27
7462.00	49.700	325.400	7401.84	187.36	132.17	-140.42	638990.98	439864.56	32°12'30.622"N	103°53'02.219"W	10.02
7494.00	53.300	325.200	7421.76	212.39	152.76	-154.68	638976.72	439885.15	32°12'30.826"N	103°53'02.384"W	11.26
7525.00	56.700	325.000	7439.54	237.76	173.58	-169.21	638962.19	439905.97	32°12'31.033"N	103°53'02.552"W	10.98
7557.00	59.700	325.300	7456.40	264.94	195.90	-184.75	638946.66	439928.28	32°12'31.254"N	103°53'02.732"W	9.41
7590.00	63.500	325.700	7472.09	293.96	219.82	-201.18	638930.22	439952.20	32°12'31.492"N	103°53'02.922"W	11.56
7621.00	66.900	326.400	7485.09	322.09	243.16	-216.89	638914.51	439975.54	32°12'31.723"N	103°53'03.104"W	11.16



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No. 293 2H AWP

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REFERENCE WELLPATH IDENTIFICATION

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Area	Eddy County, NM	Well	No. 293 2H
Field	Poker Lake Unit	Wellbore	No. 293 2H AWP
Facility	Poker Lake Unit No. 293		

WELLPATH DATA (154 stations)

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7653.00	73.000	326.700	7496.06	352.14	268.23	-233.45	638897.95	440000.61	32°12'31.972"N	103°53'03.295"W	19.08
7685.00	76.400	327.400	7504.50	383.00	294.13	-250.24	638881.17	440026.51	32°12'32.229"N	103°53'03.489"W	10.83
7716.00	79.000	327.400	7511.10	413.28	319.64	-266.56	638864.85	440052.02	32°12'32.482"N	103°53'03.678"W	8.39
7812.00	85.300	327.800	7524.21	508.33	399.90	-317.49	638813.93	440132.27	32°12'33.279"N	103°53'04.267"W	6.58
7845.00	85.300	327.500	7526.91	541.22	427.68	-335.08	638796.33	440160.05	32°12'33.554"N	103°53'04.470"W	-0.91
7928.00	86.300	328.200	7532.99	623.98	497.76	-379.13	638752.28	440230.13	32°12'34.250"N	103°53'04.980"W	1.47
8023.00	89.400	327.300	7536.55	718.89	578.04	-429.78	638701.64	440310.40	32°12'35.046"N	103°53'05.565"W	3.40
8118.00	90.900	327.700	7536.30	813.88	658.16	-480.83	638650.60	440390.51	32°12'35.841"N	103°53'06.155"W	1.63
8214.00	91.200	327.400	7534.55	909.86	739.16	-532.33	638599.10	440471.50	32°12'36.645"N	103°53'06.751"W	0.44
8310.00	91.100	327.500	7532.62	1005.84	820.06	-583.97	638547.46	440552.40	32°12'37.447"N	103°53'07.348"W	-0.15
8405.00	91.100	327.200	7530.80	1100.82	900.03	-635.21	638496.22	440632.37	32°12'38.241"N	103°53'07.940"W	0.32
8500.00	91.000	329.100	7529.05	1195.78	980.71	-685.33	638446.11	440713.04	32°12'39.041"N	103°53'08.520"W	2.00
8595.00	91.200	329.500	7527.23	1290.68	1062.38	-733.82	638397.62	440794.71	32°12'39.851"N	103°53'09.080"W	0.47
8690.00	91.100	328.500	7525.32	1385.60	1143.80	-782.74	638348.70	440876.12	32°12'40.659"N	103°53'09.646"W	1.06
8786.00	91.000	328.200	7523.56	1481.56	1225.51	-833.11	638298.34	440957.82	32°12'41.470"N	103°53'10.228"W	-0.33
8881.00	91.200	327.300	7521.74	1576.53	1305.83	-883.79	638247.66	441038.14	32°12'42.267"N	103°53'10.814"W	0.97
8976.00	90.600	327.700	7520.25	1671.51	1385.95	-934.83	638196.63	441118.25	32°12'43.061"N	103°53'11.404"W	0.76
9071.00	90.600	327.300	7519.25	1766.50	1466.06	-985.87	638145.59	441198.36	32°12'43.856"N	103°53'11.994"W	0.42
9167.00	90.700	327.500	7518.16	1862.50	1546.93	-1037.59	638093.88	441279.22	32°12'44.659"N	103°53'12.592"W	0.23
9263.00	90.200	328.300	7517.41	1958.48	1628.25	-1088.60	638042.87	441360.54	32°12'45.465"N	103°53'13.182"W	-0.98
9358.00	90.200	326.100	7517.08	2053.47	1708.10	-1140.06	637991.41	441440.38	32°12'46.258"N	103°53'13.777"W	2.32
9454.00	90.200	325.300	7516.74	2149.45	1787.41	-1194.16	637937.32	441519.68	32°12'47.045"N	103°53'14.403"W	0.83
9551.00	90.200	325.400	7516.41	2246.41	1867.20	-1249.31	637882.17	441599.47	32°12'47.837"N	103°53'15.041"W	0.10
9648.00	90.200	327.500	7516.07	2343.40	1948.04	-1302.91	637828.57	441680.30	32°12'48.639"N	103°53'15.661"W	2.16
9744.00	90.200	326.000	7515.73	2439.39	2028.32	-1355.55	637775.94	441760.57	32°12'49.435"N	103°53'16.270"W	-1.56
9840.00	90.100	322.400	7515.48	2535.27	2106.17	-1411.69	637719.80	441838.42	32°12'50.208"N	103°53'16.919"W	3.75
9936.00	89.900	325.100	7515.48	2631.11	2183.58	-1468.45	637663.04	441915.82	32°12'50.976"N	103°53'17.576"W	2.82
10031.00	90.100	323.800	7515.48	2726.01	2260.87	-1523.69	637607.81	441993.11	32°12'51.743"N	103°53'18.215"W	1.38
10126.00	89.900	327.800	7515.48	2820.97	2339.43	-1577.07	637554.43	442071.66	32°12'52.523"N	103°53'18.833"W	4.22
10223.00	90.200	328.900	7515.40	2917.94	2422.00	-1627.97	637503.53	442154.23	32°12'53.342"N	103°53'19.422"W	-1.18



Actual Wellpath Report

No. 293 2H 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 2H
Field	Poker Lake Unit	Wellbore	No. 293 2H AWP
Facility	Poker Lake Unit No. 293		

WELLPATH DATA (154 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]
10319.00	89.900	329.400	7515.31	3013.87	2504.42	-1677.20	637454.31	442236.64	32°12'54.160"N	103°53'19.991"W	0.61
10415.00	89.700	327.500	7515.65	3109.84	2586.22	-1727.43	637404.09	442318.44	32°12'54.971"N	103°53'20.571"W	1.99
10511.00	90.700	323.400	7515.31	3205.78	2665.27	-1781.86	637349.66	442397.48	32°12'55.756"N	103°53'21.201"W	4.40
10607.00	90.700	324.700	7514.14	3301.65	2742.98	-1838.21	637293.31	442475.18	32°12'56.527"N	103°53'21.853"W	1.35
10703.00	90.400	324.000	7513.22	3397.54	2820.98	-1894.16	637237.36	442553.18	32°12'57.301"N	103°53'22.501"W	0.79
10800.00	90.600	326.900	7512.37	3494.49	2900.86	-1949.16	637182.36	442633.06	32°12'58.094"N	103°53'23.137"W	3.00
10895.00	91.400	328.700	7510.71	3589.47	2981.24	-1999.78	637131.75	442713.42	32°12'58.891"N	103°53'23.722"W	2.07
10990.00	89.600	330.800	7509.88	3684.34	3063.29	-2047.63	637083.91	442795.47	32°12'59.705"N	103°53'24.275"W	2.91
11086.00	89.700	329.900	7510.47	3780.17	3146.72	-2095.12	637036.42	442878.89	32°13'00.532"N	103°53'24.824"W	0.94
11181.00	89.700	330.300	7510.97	3875.03	3229.07	-2142.47	636989.07	442961.24	32°13'01.349"N	103°53'25.371"W	0.42
11278.00	89.700	330.700	7511.48	3971.84	3313.49	-2190.24	636941.31	443045.66	32°13'02.187"N	103°53'25.923"W	0.41
11371.00	90.100	332.500	7511.64	4064.53	3395.30	-2234.47	636897.08	443127.46	32°13'02.998"N	103°53'26.434"W	1.98
11467.00	89.900	332.000	7511.64	4160.12	3480.26	-2279.17	636852.38	443212.41	32°13'03.840"N	103°53'26.950"W	0.56
11563.00	90.600	332.500	7511.22	4255.71	3565.21	-2323.87	636807.69	443297.36	32°13'04.683"N	103°53'27.466"W	0.90
11659.00	90.500	328.400	7510.30	4351.51	3648.70	-2371.20	636760.36	443380.85	32°13'05.511"N	103°53'28.013"W	4.27
11754.00	90.400	326.500	7509.55	4446.50	3728.78	-2422.31	636709.25	443460.91	32°13'06.306"N	103°53'28.604"W	2.00
11849.00	90.600	332.100	7508.72	4541.38	3810.43	-2470.79	636660.77	443542.56	32°13'07.115"N	103°53'29.165"W	5.90
11945.00	90.400	327.800	7507.88	4637.22	3893.50	-2518.85	636612.72	443625.62	32°13'07.939"N	103°53'29.720"W	4.48
12041.00	90.400	324.900	7507.21	4733.20	3973.40	-2572.04	636559.53	443705.52	32°13'08.732"N	103°53'30.335"W	3.02
12137.00	90.300	327.100	7506.63	4829.18	4052.98	-2625.72	636505.86	443785.10	32°13'09.522"N	103°53'30.956"W	2.29
12232.00	90.300	324.300	7506.13	4924.15	4131.46	-2679.25	636452.33	443863.56	32°13'10.301"N	103°53'31.576"W	2.95
12327.00	90.400	323.100	7505.55	5018.99	4208.02	-2735.48	636396.10	443940.12	32°13'11.061"N	103°53'32.227"W	1.27
12423.00	90.400	326.900	7504.88	5114.91	4286.64	-2790.54	636341.05	444018.73	32°13'11.841"N	103°53'32.864"W	3.96
12520.00	90.400	326.400	7504.20	5211.91	4367.66	-2843.86	636287.73	444099.75	32°13'12.645"N	103°53'33.481"W	0.52
12615.00	89.600	323.900	7504.20	5306.85	4445.62	-2898.14	636233.45	444177.70	32°13'13.418"N	103°53'34.109"W	2.76
12712.00	89.400	324.500	7505.05	5403.74	4524.29	-2954.88	636176.72	444256.37	32°13'14.199"N	103°53'34.765"W	0.65
12807.00	90.400	329.700	7505.21	5498.70	4604.02	-3006.46	636125.14	444336.10	32°13'14.990"N	103°53'35.362"W	5.57
12903.00	89.900	329.000	7504.96	5594.62	4686.61	-3055.40	636076.20	444418.68	32°13'15.809"N	103°53'35.928"W	0.90
12998.00	89.800	330.500	7505.21	5689.50	4768.67	-3103.26	636028.35	444500.73	32°13'16.623"N	103°53'36.481"W	1.58
13094.00	90.000	328.400	7505.38	5785.41	4851.34	-3152.05	635979.56	444583.40	32°13'17.443"N	103°53'37.045"W	2.20



Actual Wellpath Report

No. 293 2H 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 2H
Field	Poker Lake Unit	Wellbore	No. 293 2H AWB
Facility	Poker Lake Unit No. 293		

WELLPATH DATA (154 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]
13190.00	90.900	325.900	7504.62	5881.40	4931.98	-3204.12	635927.50	444664.03	32°13'18.243"N	103°53'37.647"W	2.77
13286.00	90.600	327.500	7503.37	5977.38	5012.21	-3256.82	635874.80	444744.25	32°13'19.039"N	103°53'38.257"W	1.70
13354.00	90.500	325.300	7502.71	6045.37	5068.84	-3294.45	635837.18	444800.88	32°13'19.601"N	103°53'38.692"W	3.24
13419.00	90.500	325.300	7502.15	6110.34	5122.28	-3331.45	635800.18	444854.32	32°13'20.132"N	103°53'39.120"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 2H PBHL Rev		7502.70	5125.88	-3333.53	635798.10	444857.92	32°13'20.167"N	103°53'39.144"W	point	

WELLPATH COMPOSITION					Ref Wellbore: No. 293 2H AWB	Ref Wellpath: No. 293 2H AWP
Start MD [ft]	End MD [ft]	Positional Uncertainty Model		Log Name/Comment	Wellbore	
0.00	6900.00	Gyrodata standard - Drop gyro or Multi-shot		GYRO (100 - 7040)	No. 293 AWB	
6900.00	13354.00	NaviTrak (Standard)		MWD (7021 - 13354)	No. 293 2H AWB	
13354.00	13419.00	Blind Drilling (std)		Projection to bit	No. 293 2H AWB	