



BOPCO, L.P.

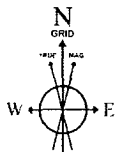
Location: Eddy County, NM
Field: Poker Lake Unit
Facility: Poker Lake Unit No. 308H

Slot: No 308H SHL
Well: No 308H
Wellbore: No 308H ST PWB



Well Profile Data

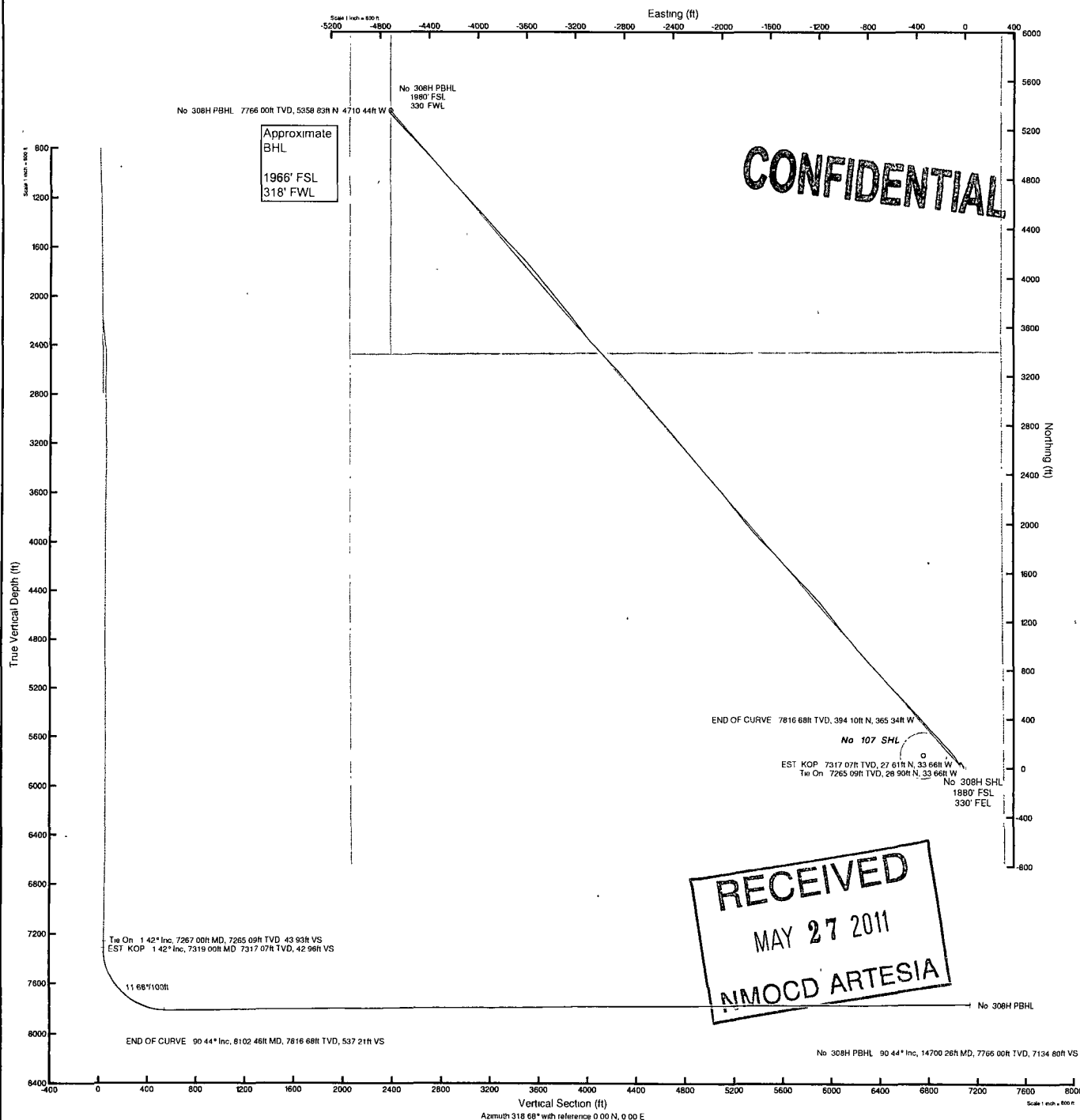
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	7267.00	1.420	180.020	7265.09	28.90	-33.66	0.00	43.93
EST KOP	7319.00	1.420	180.020	7317.07	27.61	-33.66	0.00	42.96
END OF CURVE	8102.46	90.440	318.808	7816.68	394.10	-365.34	11.68	537.21
No. 308H PBHL	14700.26	90.440	318.808	7766.00	5358.83	-4710.44	0.00	7134.80



30-015-37728

Plot reference wellbore is ST Plan #2 vs Actual #1 NAL	Grid System: NAD83 / TM New Mexico State Plane, Eastern Zone (2011) US feet
True vertical depths are referenced to RIG (to No. 308H SHL (KOP))	North Reference: Grid north
Measured depths are referenced to RIG on No. 308H SHL (KOP)	Scale: True distance
Rig on No. 308H SHL (KOP) to Mean Sea Level 3421 feet	Scale: True distance
Mean Sea Level to Mean Sea Level (KOP) to Mean Sea Level 3421 feet	Scale: True distance
Coordinates are in feet referenced to Surface Location	Created by: Victor Hernandez on 7/12/2010

BGGM (1945.0 to 2011.0) Dip 80.15° Field 48757.6 nT
Magnetic North is 7.91 degrees East of True North (at 2/5/2010)
Grid North is 0.26 degrees East of True North
To correct azimuth from True to Grid subtract 0.26 degrees
To correct azimuth from Magnetic to Grid add 7.65 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.65 = 97.65





Actual Wellpath Report

No. 308H ST AWP

Page 1 of 8

CONFIDENTIAL



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 308H SHL
Area	Eddy County, NM	Well	No. 308H
Field	Poker Lake Unit	Wellbore	No. 308 ST AWB
Facility	Poker Lake Unit No. 308H		

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	0.999935	Report Generated	7/12/2010 at 8:53:45 AM
Convergence at slot	0.26° East	Database/Source file	WA_Midland/No. 308_ST_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	651511.38	431975.12	32°11'12.006"N	103°50'36.911"W
Facility Reference Pt			651511.38	431975.12	32°11'12.006"N	103°50'36.911"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. 308H SHL (KB) to GL	19.00ft
Horizontal Reference Pt	Surface Location	Rig on No. 308H SHL (KB) to Mean Sea Level	3421.00ft
Vertical Reference Pt	Rig on No. 308H SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 308H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	318.68°



Actual Wellpath Report

No. 308H ST AWP

Page 2 of 8

CONFIDENTIAL



REFERENCE WELLPATH IDENTIFICATION

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Area	Eddy County, NM	Well	No. 308H
Field	Poker Lake Unit	Wellbore	No. 308 ST AWP
Facility	Poker Lake Unit No. 308H		

WELLPATH DATA (175 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	281.240	0.00	0.00	0.00	0.00	651511.38	431975.12	32°11'12.006"N	103°50'36.911"W	0.00
100.00	0.330	281.240	100.00	0.23	0.06	-0.28	651511.10	431975.18	32°11'12.007"N	103°50'36.914"W	0.33
200.00	0.210	266.340	200.00	0.57	0.10	-0.75	651510.63	431975.22	32°11'12.007"N	103°50'36.920"W	0.14
300.00	0.260	37.260	300.00	0.73	0.27	-0.79	651510.58	431975.39	32°11'12.009"N	103°50'36.920"W	0.43
400.00	0.740	20.560	399.99	1.08	1.05	-0.43	651510.95	431976.17	32°11'12.017"N	103°50'36.916"W	0.50
500.00	0.860	21.240	499.98	1.73	2.36	0.07	651511.45	431977.48	32°11'12.030"N	103°50'36.910"W	0.12
600.00	0.930	9.320	599.97	2.59	3.86	0.47	651511.85	431978.98	32°11'12.044"N	103°50'36.905"W	0.20
700.00	0.780	344.900	699.96	3.71	5.32	0.43	651511.80	431980.44	32°11'12.059"N	103°50'36.906"W	0.39
800.00	1.020	331.230	799.95	5.19	6.75	-0.18	651511.20	431981.87	32°11'12.073"N	103°50'36.913"W	0.32
900.00	1.040	330.270	899.93	6.95	8.32	-1.06	651510.32	431983.44	32°11'12.089"N	103°50'36.923"W	0.03
1000.00	1.050	327.130	999.92	8.74	9.88	-2.00	651509.37	431985.00	32°11'12.104"N	103°50'36.934"W	0.06
1100.00	0.950	329.630	1099.90	10.46	11.37	-2.92	651508.46	431986.48	32°11'12.119"N	103°50'36.944"W	0.11
1200.00	0.890	325.520	1199.89	12.05	12.72	-3.78	651507.60	431987.84	32°11'12.132"N	103°50'36.954"W	0.09
1300.00	0.640	331.670	1299.88	13.36	13.85	-4.48	651506.89	431988.97	32°11'12.144"N	103°50'36.962"W	0.26
1400.00	0.770	333.450	1399.87	14.56	14.95	-5.05	651506.33	431990.06	32°11'12.154"N	103°50'36.969"W	0.13
1500.00	0.750	333.980	1499.86	15.84	16.13	-5.64	651505.74	431991.25	32°11'12.166"N	103°50'36.976"W	0.02
1600.00	0.690	328.830	1599.85	17.06	17.24	-6.24	651505.14	431992.36	32°11'12.177"N	103°50'36.983"W	0.09
1700.00	0.640	336.070	1699.85	18.19	18.26	-6.77	651504.60	431993.38	32°11'12.187"N	103°50'36.989"W	0.10
1800.00	0.710	322.370	1799.84	19.34	19.26	-7.38	651504.00	431994.38	32°11'12.197"N	103°50'36.996"W	0.18
1900.00	0.620	320.390	1899.83	20.50	20.17	-8.10	651503.28	431995.29	32°11'12.206"N	103°50'37.004"W	0.09
2000.00	0.480	324.140	1999.83	21.46	20.93	-8.69	651502.69	431996.05	32°11'12.214"N	103°50'37.011"W	0.14
2100.00	0.860	326.940	2099.82	22.62	21.90	-9.35	651502.03	431997.02	32°11'12.223"N	103°50'37.019"W	0.38
2200.00	4.870	333.880	2199.68	27.46	26.34	-11.63	651499.75	432001.46	32°11'12.267"N	103°50'37.045"W	4.02
2300.00	5.980	333.360	2299.23	36.59	34.81	-15.83	651495.55	432009.92	32°11'12.351"N	103°50'37.093"W	1.11
2400.00	4.920	319.350	2398.78	45.92	42.72	-20.96	651490.42	432017.83	32°11'12.430"N	103°50'37.153"W	1.69
2500.00	2.750	280.340	2498.56	52.09	46.40	-26.12	651485.26	432021.52	32°11'12.467"N	103°50'37.212"W	3.28
2600.00	3.730	168.230	2598.47	51.14	43.65	-27.81	651483.57	432018.76	32°11'12.439"N	103°50'37.232"W	5.40
2700.00	0.770	206.580	2698.39	48.06	39.86	-27.45	651483.93	432014.98	32°11'12.402"N	103°50'37.228"W	3.16
2800.00	1.450	297.750	2798.38	48.99	39.85	-28.87	651482.51	432014.97	32°11'12.402"N	103°50'37.245"W	1.66
2900.00	0.880	252.240	2898.36	50.48	40.20	-30.72	651480.66	432015.32	32°11'12.406"N	103°50'37.266"W	1.04



Actual Wellpath Report

No. 308H ST AWP

Page 3 of 8

CONFIDENTIAL



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 308H SHL
Area	Eddy County, NM	Well	No. 308H
Field	Poker Lake Unit	Wellbore	No. 308 ST AWP
Facility	Poker Lake Unit No. 308H		

WELLPATH DATA (175 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	1.190	331.790	2998.35	51.80	40.88	-31.94	651479.44	432016.00	32°11'12.412"N	103°50'37.281"W	1.35
3100.00	0.800	337.520	3098.33	53.47	42.44	-32.70	651478.68	432017.56	32°11'12.428"N	103°50'37.289"W	0.40
3200.00	0.360	332.440	3198.32	54.43	43.37	-33.11	651478.27	432018.48	32°11'12.437"N	103°50'37.294"W	0.44
3300.00	0.270	48.430	3298.32	54.74	43.80	-33.08	651478.30	432018.92	32°11'12.441"N	103°50'37.294"W	0.39
3400.00	0.460	70.030	3398.32	54.60	44.10	-32.53	651478.85	432019.21	32°11'12.444"N	103°50'37.287"W	0.23
3500.00	0.630	87.800	3498.32	54.10	44.25	-31.60	651479.78	432019.37	32°11'12.446"N	103°50'37.276"W	0.24
3600.00	0.610	98.950	3598.31	53.35	44.19	-30.53	651480.85	432019.31	32°11'12.445"N	103°50'37.264"W	0.12
3700.00	0.930	110.690	3698.30	52.22	43.82	-29.24	651482.14	432018.94	32°11'12.441"N	103°50'37.249"W	0.36
3800.00	0.710	71.830	3798.29	51.26	43.73	-27.89	651483.49	432018.85	32°11'12.440"N	103°50'37.233"W	0.58
3900.00	0.580	43.730	3898.29	51.06	44.29	-26.96	651484.42	432019.40	32°11'12.446"N	103°50'37.222"W	0.34
4000.00	0.580	46.880	3998.28	51.12	45.00	-26.24	651485.14	432020.12	32°11'12.453"N	103°50'37.214"W	0.03
4100.00	0.460	27.920	4098.28	51.28	45.70	-25.68	651485.70	432020.82	32°11'12.460"N	103°50'37.207"W	0.21
4200.00	0.550	29.160	4198.27	51.58	46.47	-25.26	651486.12	432021.59	32°11'12.467"N	103°50'37.202"W	0.09
4300.00	0.420	21.460	4298.27	51.91	47.23	-24.89	651486.49	432022.35	32°11'12.475"N	103°50'37.198"W	0.15
4400.00	0.260	34.100	4398.27	52.13	47.76	-24.63	651486.75	432022.88	32°11'12.480"N	103°50'37.195"W	0.18
4500.00	0.130	24.480	4498.27	52.24	48.05	-24.45	651486.93	432023.17	32°11'12.483"N	103°50'37.193"W	0.13
4600.00	0.030	248.520	4598.27	52.29	48.15	-24.43	651486.95	432023.26	32°11'12.484"N	103°50'37.193"W	0.15
4700.00	0.130	11.800	4698.27	52.37	48.25	-24.43	651486.95	432023.37	32°11'12.485"N	103°50'37.193"W	0.15
4800.00	0.150	27.210	4798.27	52.49	48.48	-24.35	651487.03	432023.59	32°11'12.487"N	103°50'37.192"W	0.04
4900.00	0.150	333.800	4898.27	52.66	48.71	-24.35	651487.03	432023.83	32°11'12.489"N	103°50'37.192"W	0.13
5000.00	0.300	280.200	4998.27	52.99	48.87	-24.66	651486.72	432023.99	32°11'12.491"N	103°50'37.195"W	0.24
5100.00	0.220	266.100	5098.26	53.31	48.91	-25.11	651486.27	432024.02	32°11'12.491"N	103°50'37.201"W	0.10
5200.00	0.290	253.350	5198.26	53.54	48.82	-25.55	651485.83	432023.94	32°11'12.491"N	103°50'37.206"W	0.09
5300.00	0.140	281.880	5298.26	53.74	48.78	-25.91	651485.47	432023.89	32°11'12.490"N	103°50'37.210"W	0.18
5400.00	0.120	297.900	5398.26	53.93	48.85	-26.12	651485.26	432023.97	32°11'12.491"N	103°50'37.212"W	0.04
5500.00	0.250	298.210	5498.26	54.24	49.00	-26.41	651484.97	432024.12	32°11'12.492"N	103°50'37.216"W	0.13
5600.00	0.250	276.510	5598.26	54.60	49.13	-26.81	651484.57	432024.25	32°11'12.494"N	103°50'37.220"W	0.09
5700.00	0.250	268.490	5698.26	54.90	49.15	-27.25	651484.13	432024.26	32°11'12.494"N	103°50'37.225"W	0.03
5800.00	0.360	248.200	5798.26	55.15	49.03	-27.76	651483.62	432024.14	32°11'12.493"N	103°50'37.231"W	0.15
5900.00	0.240	240.030	5898.26	55.30	48.80	-28.23	651483.15	432023.92	32°11'12.491"N	103°50'37.237"W	0.13



Actual Wellpath Report

No. 308H ST AWP

Page 4 of 8



CONFIDENTIAL

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 308H SHL
Area	Eddy County, NM	Well	No. 308H
Field	Poker Lake Unit	Wellbore	No. 308 ST AWP
Facility	Poker Lake Unit No. 308H		

WELLPATH DATA (175 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	0.530	229.690	5998.26	55.34	48.40	-28.77	651482.61	432023.52	32°11'12.487"N	103°50'37.243"W	0.30
6100.00	0.650	199.790	6098.25	55.08	47.57	-29.31	651482.07	432022.68	32°11'12.478"N	103°50'37.250"W	0.33
6200.00	0.800	194.890	6198.24	54.42	46.36	-29.68	651481.70	432021.48	32°11'12.466"N	103°50'37.254"W	0.16
6300.00	0.960	191.670	6298.23	53.52	44.86	-30.03	651481.35	432019.98	32°11'12.452"N	103°50'37.258"W	0.17
6400.00	0.910	192.460	6398.22	52.55	43.27	-30.37	651481.01	432018.39	32°11'12.436"N	103°50'37.262"W	0.05
6500.00	1.080	189.890	6498.20	51.49	41.56	-30.71	651480.67	432016.68	32°11'12.419"N	103°50'37.266"W	0.18
6600.00	0.950	197.350	6598.19	50.47	39.84	-31.11	651480.27	432014.96	32°11'12.402"N	103°50'37.271"W	0.19
6700.00	1.070	200.490	6698.17	49.60	38.18	-31.69	651479.69	432013.30	32°11'12.386"N	103°50'37.278"W	0.13
6800.00	0.800	205.300	6798.16	48.88	36.67	-32.31	651479.07	432011.79	32°11'12.371"N	103°50'37.285"W	0.28
6900.00	0.890	197.100	6898.15	48.19	35.30	-32.84	651478.54	432010.42	32°11'12.357"N	103°50'37.291"W	0.15
7000.00	0.940	187.360	6998.13	47.25	33.74	-33.17	651478.21	432008.86	32°11'12.342"N	103°50'37.295"W	0.16
7100.00	0.930	192.050	7098.12	46.22	32.14	-33.45	651477.93	432007.25	32°11'12.326"N	103°50'37.298"W	0.08
7200.00	1.110	181.610	7198.10	45.03	30.37	-33.64	651477.74	432005.49	32°11'12.308"N	103°50'37.301"W	0.26
7267.00	1.420	180.020	7265.09	43.93	28.90	-33.66	651477.72	432004.01	32°11'12.294"N	103°50'37.301"W	0.47
7319.00	1.420	180.020	7317.07	42.96	27.61	-33.66	651477.72	432002.73	32°11'12.281"N	103°50'37.301"W	0.00
7328.00	0.800	217.600	7326.07	42.86	27.45	-33.70	651477.68	432002.56	32°11'12.279"N	103°50'37.302"W	10.28
7359.00	2.300	305.400	7357.06	43.43	27.64	-34.34	651477.04	432002.75	32°11'12.281"N	103°50'37.309"W	7.76
7390.00	6.100	322.800	7387.97	45.68	29.31	-35.84	651475.54	432004.43	32°11'12.298"N	103°50'37.327"W	12.79
7421.00	9.600	327.300	7418.68	49.88	32.80	-38.24	651473.14	432007.91	32°11'12.333"N	103°50'37.354"W	11.45
7452.00	13.900	329.800	7449.02	56.09	38.19	-41.51	651469.87	432013.31	32°11'12.386"N	103°50'37.392"W	13.96
7482.00	18.900	330.000	7477.79	64.40	45.52	-45.75	651465.63	432020.64	32°11'12.459"N	103°50'37.441"W	16.67
7514.00	24.100	328.900	7507.56	75.91	55.61	-51.72	651459.66	432030.72	32°11'12.559"N	103°50'37.510"W	16.30
7545.00	28.500	326.300	7535.34	89.48	67.19	-59.10	651452.28	432042.30	32°11'12.674"N	103°50'37.595"W	14.67
7577.00	31.900	324.500	7562.99	105.47	80.43	-68.25	651443.13	432055.54	32°11'12.805"N	103°50'37.701"W	10.99
7607.00	34.600	322.500	7588.08	121.85	93.64	-78.04	651433.34	432068.75	32°11'12.936"N	103°50'37.814"W	9.71
7639.00	37.100	321.000	7614.02	140.57	108.35	-89.65	651421.74	432083.46	32°11'13.083"N	103°50'37.948"W	8.28
7671.00	40.100	319.900	7639.02	160.52	123.74	-102.36	651409.02	432098.85	32°11'13.235"N	103°50'38.095"W	9.62
7702.00	43.200	318.600	7662.18	181.12	139.34	-115.81	651395.57	432114.45	32°11'13.390"N	103°50'38.251"W	10.38
7733.00	47.000	316.900	7684.06	203.06	155.58	-130.58	651380.81	432130.69	32°11'13.552"N	103°50'38.422"W	12.86
7765.00	51.200	317.300	7705.01	227.24	173.30	-147.04	651364.35	432148.41	32°11'13.728"N	103°50'38.613"W	13.16



Actual Wellpath Report

No. 308H ST AWP

Page 5 of 8

CONFIDENTIAL



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 308H SHL
Area	Eddy County, NM	Well	No. 308H
Field	Poker Lake Unit	Wellbore	No. 308 ST AWB
Facility	Poker Lake Unit No. 308H		

WELLPATH DATA (175 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]
7796.00	56.500	317.100	7723.29	252.25	191.66	-164.04	651347.35	432166.76	32°11'13.910"N	103°50'38.810"W	17.10
7829.00	59.700	316.400	7740.73	280.25	212.06	-183.24	651328.15	432187.16	32°11'14.113"N	103°50'39.032"W	9.86
7859.00	62.500	316.900	7755.22	306.49	231.15	-201.26	651310.13	432206.26	32°11'14.303"N	103°50'39.241"W	9.45
7891.00	65.600	316.800	7769.23	335.25	252.14	-220.94	651290.45	432227.25	32°11'14.511"N	103°50'39.468"W	9.69
7922.00	68.700	317.000	7781.26	363.80	273.00	-240.46	651270.94	432248.10	32°11'14.719"N	103°50'39.694"W	10.02
7954.00	72.000	317.000	7792.02	393.92	295.04	-261.01	651250.39	432270.14	32°11'14.938"N	103°50'39.932"W	10.31
7986.00	74.600	317.100	7801.22	424.55	317.47	-281.89	651229.51	432292.57	32°11'15.161"N	103°50'40.174"W	8.13
8016.00	78.300	317.300	7808.24	453.70	338.87	-301.70	651209.70	432313.96	32°11'15.373"N	103°50'40.404"W	12.35
8047.00	83.100	318.300	7813.25	484.28	361.52	-322.24	651189.16	432336.62	32°11'15.598"N	103°50'40.641"W	15.81
8079.00	87.000	318.300	7816.01	516.16	385.32	-343.45	651167.95	432360.42	32°11'15.835"N	103°50'40.887"W	12.19
8110.00	88.100	318.200	7817.34	547.13	408.43	-364.07	651147.33	432383.52	32°11'16.064"N	103°50'41.126"W	3.56
8142.00	88.200	317.200	7818.37	579.10	432.08	-385.60	651125.81	432407.18	32°11'16.299"N	103°50'41.375"W	3.14
8173.00	90.400	317.600	7818.75	610.09	454.90	-406.58	651104.83	432429.99	32°11'16.526"N	103°50'41.618"W	7.21
8204.00	91.600	317.600	7818.21	641.08	477.79	-427.48	651083.93	432452.88	32°11'16.753"N	103°50'41.860"W	3.87
8236.00	90.800	317.300	7817.54	673.07	501.36	-449.11	651062.30	432476.44	32°11'16.988"N	103°50'42.110"W	2.67
8266.00	89.400	316.000	7817.49	703.05	523.17	-469.70	651041.71	432498.26	32°11'17.204"N	103°50'42.349"W	6.37
8297.00	91.900	316.300	7817.13	734.01	545.52	-491.18	651020.24	432520.61	32°11'17.427"N	103°50'42.597"W	8.12
8373.00	90.700	317.900	7815.41	809.96	601.18	-542.89	650968.52	432576.26	32°11'17.980"N	103°50'43.196"W	2.63
8406.00	90.200	316.800	7815.15	842.95	625.45	-565.25	650946.16	432600.53	32°11'18.221"N	103°50'43.455"W	3.66
8503.00	90.300	318.400	7814.73	939.93	697.08	-630.66	650880.76	432672.15	32°11'18.933"N	103°50'44.212"W	1.65
8600.00	90.900	317.900	7813.71	1036.92	769.33	-695.37	650816.06	432744.40	32°11'19.650"N	103°50'44.961"W	0.81
8696.00	90.900	317.200	7812.20	1132.89	840.15	-760.15	650751.27	432815.22	32°11'20.354"N	103°50'45.712"W	0.73
8791.00	90.700	318.900	7810.88	1227.87	910.80	-823.65	650687.78	432885.86	32°11'21.056"N	103°50'46.447"W	1.80
8887.00	90.700	321.000	7809.70	1323.83	984.28	-885.42	650626.02	432959.33	32°11'21.786"N	103°50'47.161"W	2.19
8983.00	90.400	320.600	7808.78	1419.76	1058.67	-946.09	650565.35	433033.72	32°11'22.525"N	103°50'47.863"W	0.52
9078.00	90.400	321.800	7808.12	1514.67	1132.70	-1005.61	650505.83	433107.75	32°11'23.260"N	103°50'48.552"W	1.26
9174.00	90.400	321.600	7807.45	1610.53	1208.04	-1065.11	650446.34	433183.08	32°11'24.008"N	103°50'49.241"W	0.21
9270.00	90.500	321.800	7806.70	1706.39	1283.37	-1124.61	650386.85	433258.41	32°11'24.756"N	103°50'49.929"W	0.23
9365.00	90.700	319.600	7805.70	1801.32	1356.88	-1184.77	650326.69	433331.91	32°11'25.486"N	103°50'50.625"W	2.33
9462.00	90.900	316.400	7804.35	1898.29	1428.95	-1249.66	650261.80	433403.97	32°11'26.202"N	103°50'51.376"W	3.31



Actual Wellpath Report

No. 308H ST AWP

Page 6 of 8



CONFIDENTIAL

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 308H SHL
Area	Eddy County, NM	Well	No. 308H
Field	Poker Lake Unit	Wellbore	No. 308 ST AWP
Facility	Poker Lake Unit No. 308H		

WELLPATH DATA (175 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]
9557.00	90.200	316.100	7803.43	1993.20	1497.57	-1315.35	650196.11	433472.59	32°11'26.884"N	103°50'52.137"W	0.80
9654.00	90.100	316.200	7803.18	2090.11	1567.52	-1382.55	650128.92	433542.54	32°11'27.580"N	103°50'52.915"W	0.15
9750.00	89.900	316.300	7803.18	2186.02	1636.87	-1448.94	650062.54	433611.88	32°11'28.269"N	103°50'53.684"W	0.23
9846.00	90.700	319.100	7802.68	2282.00	1707.86	-1513.54	649997.94	433682.87	32°11'28.974"N	103°50'54.432"W	3.03
9942.00	90.500	315.700	7801.67	2377.95	1778.51	-1578.50	649932.98	433753.52	32°11'29.676"N	103°50'55.184"W	3.55
10037.00	90.700	314.700	7800.68	2472.77	1845.92	-1645.44	649866.05	433820.92	32°11'30.346"N	103°50'55.960"W	1.07
10132.00	90.800	316.400	7799.43	2567.62	1913.73	-1711.96	649799.53	433888.72	32°11'31.020"N	103°50'56.730"W	1.79
10227.00	90.300	321.200	7798.52	2662.58	1985.18	-1774.51	649736.98	433960.17	32°11'31.730"N	103°50'57.454"W	5.08
10323.00	90.300	320.700	7798.02	2758.51	2059.74	-1834.99	649676.51	434034.72	32°11'32.470"N	103°50'58.154"W	0.52
10420.00	90.200	321.600	7797.59	2855.42	2135.28	-1895.84	649615.67	434110.25	32°11'33.221"N	103°50'58.858"W	0.93
10515.00	90.200	321.100	7797.26	2950.31	2209.47	-1955.17	649556.34	434184.44	32°11'33.957"N	103°50'59.545"W	0.53
10611.00	89.800	318.000	7797.26	3046.29	2282.51	-2017.45	649494.07	434257.48	32°11'34.683"N	103°51'00.266"W	3.26
10708.00	89.200	318.300	7798.11	3143.28	2354.76	-2082.16	649429.36	434329.73	32°11'35.401"N	103°51'01.015"W	0.69
10802.00	90.500	319.000	7798.36	3237.28	2425.33	-2144.26	649367.26	434400.29	32°11'36.102"N	103°51'01.734"W	1.57
10899.00	90.700	319.700	7797.34	3334.27	2498.92	-2207.44	649304.08	434473.87	32°11'36.833"N	103°51'02.465"W	0.75
10995.00	90.700	319.700	7796.17	3430.24	2572.13	-2269.53	649242.00	434547.08	32°11'37.560"N	103°51'03.184"W	0.00
11090.00	90.300	320.000	7795.34	3525.22	2644.74	-2330.78	649180.75	434619.68	32°11'38.281"N	103°51'03.893"W	0.53
11186.00	90.900	319.800	7794.33	3621.19	2718.17	-2392.62	649118.92	434693.11	32°11'39.011"N	103°51'04.609"W	0.66
11281.00	91.000	318.500	7792.76	3716.17	2790.02	-2454.74	649056.80	434764.95	32°11'39.724"N	103°51'05.328"W	1.37
11378.00	91.000	318.300	7791.06	3813.16	2862.54	-2519.14	648992.41	434837.47	32°11'40.445"N	103°51'06.073"W	0.21
11475.00	90.800	319.400	7789.54	3910.14	2935.57	-2582.96	648928.59	434910.49	32°11'41.170"N	103°51'06.812"W	1.15
11571.00	90.900	318.600	7788.12	4006.13	3008.01	-2645.93	648865.62	434982.93	32°11'41.890"N	103°51'07.541"W	0.84
11668.00	90.300	319.300	7787.10	4103.12	3081.16	-2709.63	648801.93	435056.08	32°11'42.617"N	103°51'08.279"W	0.95
11764.00	90.400	319.200	7786.51	4199.12	3153.89	-2772.29	648739.27	435128.80	32°11'43.339"N	103°51'09.004"W	0.15
11858.00	90.300	319.800	7785.94	4293.11	3225.36	-2833.34	648678.23	435200.27	32°11'44.049"N	103°51'09.711"W	0.65
11954.00	90.300	314.600	7785.44	4389.04	3295.77	-2898.54	648613.03	435270.68	32°11'44.749"N	103°51'10.466"W	5.42
12050.00	90.300	317.200	7784.93	4484.92	3364.71	-2965.34	648546.23	435339.60	32°11'45.434"N	103°51'11.240"W	2.71
12146.00	90.300	318.600	7784.43	4580.90	3435.93	-3029.70	648481.88	435410.83	32°11'46.141"N	103°51'11.985"W	1.46
12242.00	90.400	320.800	7783.85	4676.88	3509.15	-3091.79	648419.80	435484.03	32°11'46.869"N	103°51'12.703"W	2.29
12337.00	90.400	324.200	7783.18	4771.65	3584.50	-3149.61	648361.98	435559.38	32°11'47.617"N	103°51'13.372"W	3.58



Actual Wellpath Report

No. 308H ST AWP

Page 7 of 8



CONFIDENTIAL

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 308H SHL
Area	Eddy County, NM	Well	No. 308H
Field	Poker Lake Unit	Wellbore	No. 308 ST AWP
Facility	Poker Lake Unit No. 308H		

WELLPATH DATA (175 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]
12430.00	90.400	321.300	7782.53	4864.41	3658.52	-3205.89	648305.70	435633.40	32°11'48.352"N	103°51'14.024"W	3.12
12526.00	90.500	320.900	7781.78	4960.32	3733.23	-3266.18	648245.42	435708.10	32°11'49.094"N	103°51'14.721"W	0.43
12624.00	90.900	321.000	7780.58	5058.24	3809.33	-3327.91	648183.69	435784.20	32°11'49.850"N	103°51'15.436"W	0.42
12721.00	90.400	320.600	7779.48	5155.16	3884.49	-3389.21	648122.39	435859.35	32°11'50.596"N	103°51'16.145"W	0.66
12816.00	90.500	320.300	7778.73	5250.11	3957.74	-3449.70	648061.90	435932.60	32°11'51.324"N	103°51'16.845"W	0.33
12912.00	90.600	319.900	7777.81	5346.08	4031.39	-3511.28	648000.33	436006.24	32°11'52.055"N	103°51'17.558"W	0.43
13008.00	90.400	319.500	7776.98	5442.06	4104.60	-3573.37	647938.25	436079.45	32°11'52.782"N	103°51'18.277"W	0.47
13103.00	90.300	315.700	7776.39	5537.03	4174.74	-3637.42	647874.21	436149.58	32°11'53.479"N	103°51'19.018"W	4.00
13198.00	90.300	315.600	7775.90	5631.89	4242.67	-3703.82	647807.80	436217.51	32°11'54.154"N	103°51'19.788"W	0.11
13295.00	90.100	316.000	7775.56	5728.77	4312.21	-3771.45	647740.18	436287.04	32°11'54.845"N	103°51'20.571"W	0.46
13391.00	90.200	317.100	7775.31	5824.70	4381.90	-3837.47	647674.17	436356.73	32°11'55.538"N	103°51'21.336"W	1.15
13488.00	90.200	318.000	7774.97	5921.68	4453.47	-3902.94	647608.70	436428.30	32°11'56.249"N	103°51'22.094"W	0.93
13584.00	90.100	316.900	7774.72	6017.65	4524.20	-3967.85	647543.79	436499.01	32°11'56.952"N	103°51'22.846"W	1.15
13679.00	90.000	316.600	7774.63	6112.60	4593.39	-4032.95	647478.70	436568.20	32°11'57.639"N	103°51'23.600"W	0.33
13774.00	90.700	317.200	7774.05	6207.55	4662.75	-4097.85	647413.80	436637.56	32°11'58.328"N	103°51'24.351"W	0.97
13869.00	90.600	316.600	7772.98	6302.50	4732.11	-4162.76	647348.89	436706.92	32°11'59.018"N	103°51'25.103"W	0.64
13964.00	90.500	317.900	7772.06	6397.46	4801.87	-4227.24	647284.42	436776.67	32°11'59.711"N	103°51'25.850"W	1.37
14059.00	90.700	318.900	7771.07	6492.45	4872.91	-4290.31	647221.35	436847.70	32°12'00.416"N	103°51'26.580"W	1.07
14156.00	90.500	317.400	7770.05	6589.44	4945.16	-4355.02	647156.65	436919.95	32°12'01.134"N	103°51'27.330"W	1.56
14253.00	90.300	316.400	7769.38	6686.39	5015.98	-4421.30	647090.37	436990.76	32°12'01.838"N	103°51'28.097"W	1.05
14350.00	90.200	317.400	7768.95	6783.34	5086.80	-4487.57	647024.10	437061.58	32°12'02.542"N	103°51'28.865"W	1.04
14447.00	90.200	317.300	7768.62	6880.32	5158.15	-4553.29	646958.39	437132.92	32°12'03.250"N	103°51'29.626"W	0.10
14544.00	90.700	316.400	7767.85	6977.26	5228.91	-4619.63	646892.06	437203.68	32°12'03.954"N	103°51'30.394"W	1.06
14637.00	89.800	318.400	7767.45	7070.23	5297.36	-4682.57	646829.12	437272.13	32°12'04.634"N	103°51'31.123"W	2.36
14700.00	89.800	318.400	7767.67	7133.23	5344.47	-4724.40	646787.29	437319.24	32°12'05.102"N	103°51'31.608"W	0.00



Actual Wellpath Report

No. 308H ST AWP

Page 8 of 8



CONFIDENTIAL

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 308H SHL
Area	Eddy County, NM	Well	No. 308H
Field	Poker Lake Unit	Wellbore	No. 308 ST AWP
Facility	Poker Lake Unit No. 308H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 308H PBHL		7766.00	5358.83	-4710.44	646801.25	437333.59	32°12'05.243"N	103°51'31.444"W	point

WELLPATH COMPOSITION

Ref Wellbore: No. 308 ST AWP

Ref Wellpath: No. 308H ST AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7267.00	Generic gyro - continuous (Standard)	GYRO <100 - 7267>	No. 308 ST AWP
7267.00	14637.00	NaviTrak (Standard)	MWD <7319 - 14637>	No. 308 ST AWP
14637.00	14700.00	Blind Drilling (std)	Projection to bit	No. 308 ST AWP