

**McVAY DRILLING COMPANY**

P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

*30-015-38666***RECEIVED****NOV 10 2011**

Well Name and Num: Poker Lake Unit 342H
Location: Sec. 23, T24S, R30E
Operator: BOPCo
Drilling Contractor: McVay Drilling Company

BOPCO WTD PRODUCTION

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
0.68	363	0.36	5350	65.70	7869	90.30	11172
1.75	603	0.67	5664	80.50	7950	89.60	11454
1.09	692	1.01	6320	82.50	7963	88.30	11548
0.85	847	1.27	6602	87.80	7995	91.70	11664
0.68	1006	1.52	6914	89.00	8026	90.50	11757
0.92	1093	1.06	7247	90.20	8731	89.50	11851
0.50	1241	1.80	7306	90.40	8918	87.40	11945
0.20	1624	3.10	7337	87.50	9106	87.70	12039
0.20	2005	11.10	7431	90.60	9294	88.20	12132
0.50	2385	16.70	7494	87.10	9576	90.20	12320
0.30	2765	19.70	7526	93.60	9763	88.80	12508
0.10	3145	22.70	7558	92.40	9951	88.60	12696
0.40	3525	28.40	7618	90.40	10045	89.70	12883
0.20	3905	31.50	7650	90.70	10233	90.70	12977
1.05	4409	5.5	7682	88.30	10421	90.40	13165
0.85	4723	44.90	7744	90.10	10702	89.90	13672
0.95	5033	55.20	7806	88.70	10984	88.20	13450

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Location: Sec. 23, T24S, R30E
Operator: BOPCo
Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>
87.40	13727
89.00	13915
90.10	14103
89.10	14197
87.10	14384
89.40	14572
85.80	14760
94.00	14912

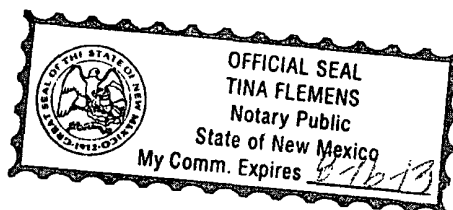
Drilling Contractor: McVay Drilling Company

By: *Tina Flemens*

Subscribed and sworn to before me this 7th day of November, 2011

Tina Flemens
Notary Public

My Commission Expires: 8-16-13 Lea County, New Mexico





BOPCO, L.P.

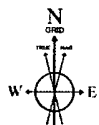
Location Eddy County, NM
Field Poker Lake Unit
Facility Poker Lake Unit No. 342H

Slot No 342H SHL
Well No 342H
Wellbore No 342H PWB

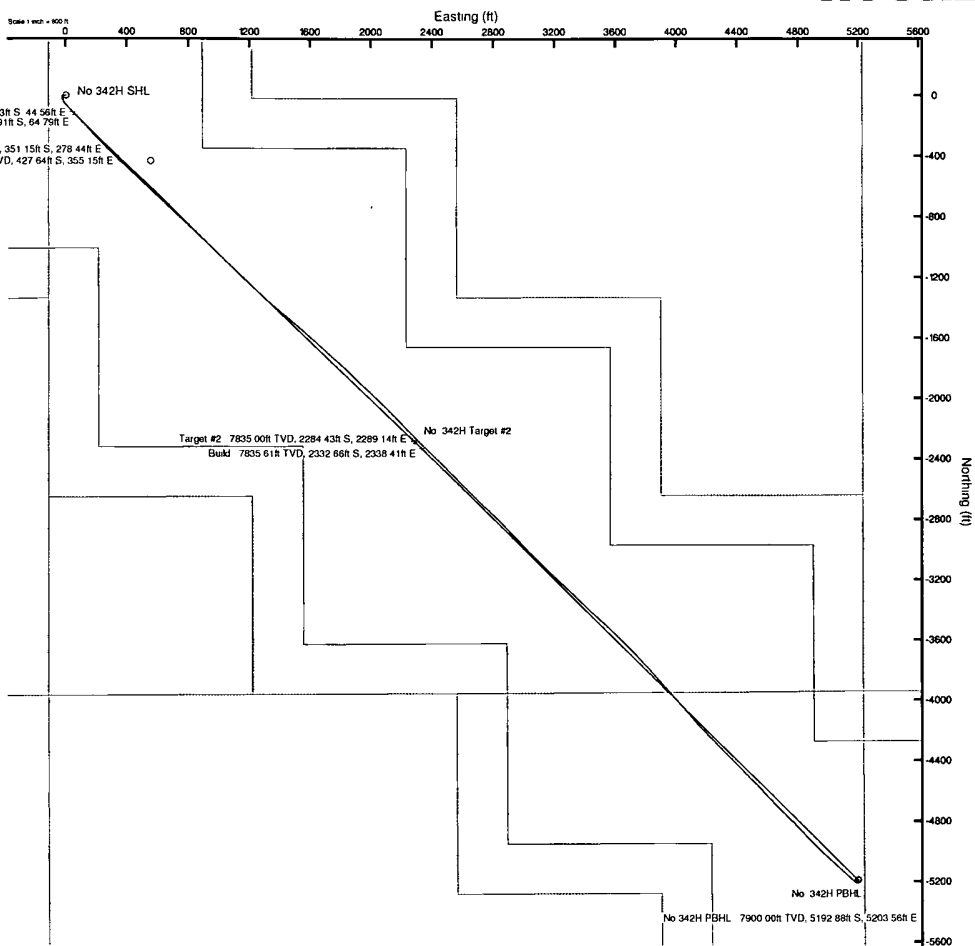
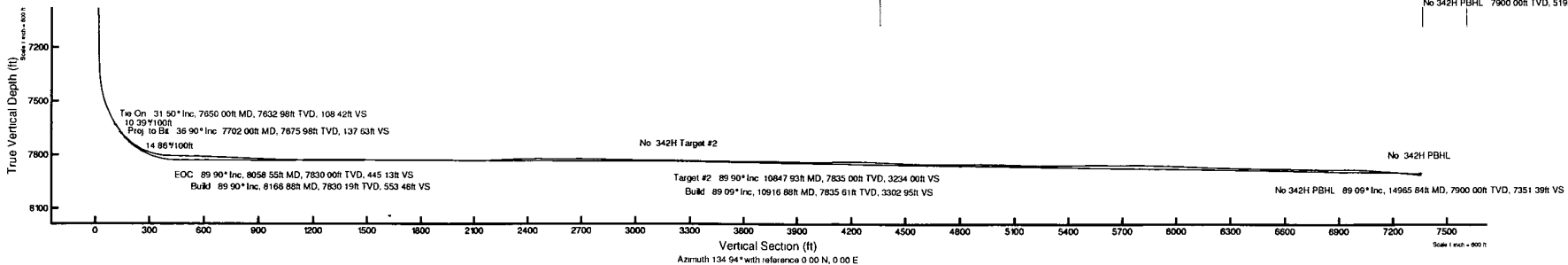


Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	7650.00	31.500	136.400	7632.98	-108.83	44.56	108.42
Proj. to Bit	7702.00	36.900	136.000	7675.98	-129.91	64.79	137.63
EOC	8058.55	89.897	136.000	7830.00	-351.15	278.44	445.13
Build	8166.88	89.897	133.833	7830.19	-427.64	355.15	553.46
Target #2	10847.93	89.897	133.833	7835.00	2284.43	2289.14	3234.00
Build	10916.88	89.089	134.951	7835.61	2332.66	2338.41	3302.95
No 342H PBHL	14965.84	89.089	134.951	7900.00	5192.88	5203.56	7351.39

Plot reference wellpath is Plan #3	
True vertical depths are referenced to Rig on No 342H SHL (KB)	Grid System NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No 342H SHL (KB)	North Reference Grid north
Rig on No 342H SHL (KB) to Mean Sea Level 3454.8 feet	Scale True distance
Mean Sea Level to Mud line (At Slot No 342H SHL) 3436 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by gentry on 10/7/2011



BGGM (1945.0 to 2012.0) Day 60 12" Field 48594.2 nT
Magnetic North is 7.78 degrees East of True North (at 7/7/2011)
Grid North is 0.25 degrees East of True North
To correct azimuth from True to Grid subtract 0.25 degrees
To correct azimuth from Magnetic to Grid add 7.50 degrees
For example if the Magnetic North Azimuth = 90 degs then the Grid North Azimuth = 90 + 7.50 = 97.50





Actual Wellpath Report

No.342H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.342H SHL
Area	Eddy County, NM	Well	No. 342H
Field	Poker Lake Unit	Wellbore	No.342H AWB
Facility	Poker Lake Unit No. 342H		

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	0.999934	Report Generated	10/25/2011 at 7:27:20 AM
Convergence at slot	0.25° East	Database/Source file	WA Midland/No.342H_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	646580.10	439324.53	32°12'24.955"N	103°51'33.916"W
Facility Reference Pt			646580.10	439324.53	32°12'24.955"N	103°51'33.916"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.342H SHL (KB) to Facility Vertical Datum	18.80ft
Horizontal Reference Pt	Slot	Rig on No.342H SHL (KB) to Mean Sea Level	3454.80ft
Vertical Reference Pt	Rig on No.342H SHL (KB)	Rig on No.342H SHL (KB) to Mud Line at Slot (No.342H SHL)	18.80ft
MD Reference Pt	Rig on No.342H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	134.94°



Actual Wellpath Report

No.342H AWP

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Area	Eddy County, NM	Well	No. 342H
Field	Poker Lake Unit	Wellbore	No.342H AWB
Facility	Poker Lake Unit No. 342H		

WELLPATH DATA (180 stations) † = interpolated/extrapolated station

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	243.020	0.00	0.00	0.00	0.00	646580.10	439324.53	32°12'24.955"N	103°51'33.916"W	0.00	
18.80	0.000	243.020	18.80	0.00	0.00	0.00	646580.10	439324.53	32°12'24.955"N	103°51'33.916"W	0.00	
100.00	0.250	243.020	100.00	-0.05	-0.08	-0.16	646579.94	439324.45	32°12'24.955"N	103°51'33.918"W	0.31	
200.00	0.560	258.650	200.00	-0.39	-0.28	-0.83	646579.27	439324.25	32°12'24.953"N	103°51'33.926"W	0.33	
300.00	0.420	266.970	299.99	-0.91	-0.39	-1.68	646578.42	439324.14	32°12'24.951"N	103°51'33.936"W	0.16	
400.00	0.780	242.390	399.99	-1.36	-0.73	-2.65	646577.45	439323.80	32°12'24.948"N	103°51'33.947"W	0.43	
500.00	1.310	247.760	499.97	-2.01	-1.47	-4.31	646575.79	439323.06	32°12'24.941"N	103°51'33.966"W	0.54	
600.00	1.420	246.870	599.94	-2.91	-2.39	-6.50	646573.60	439322.14	32°12'24.932"N	103°51'33.992"W	0.11	
632.30	1.560	249.950	632.23	-3.25	-2.70	-7.29	646572.82	439321.83	32°12'24.929"N	103°51'34.001"W	0.50	
726.80	1.240	260.640	726.70	-4.39	-3.31	-9.50	646570.60	439321.22	32°12'24.923"N	103°51'34.027"W	0.44	
821.30	0.900	275.820	821.19	-5.56	-3.40	-11.25	646568.85	439321.13	32°12'24.922"N	103°51'34.047"W	0.47	
915.80	0.620	280.030	915.68	-6.56	-3.24	-12.49	646567.61	439321.29	32°12'24.924"N	103°51'34.062"W	0.30	
1010.30	0.760	301.890	1010.17	-7.59	-2.82	-13.53	646566.57	439321.71	32°12'24.928"N	103°51'34.074"W	0.31	
1104.80	0.870	292.190	1104.66	-8.86	-2.21	-14.72	646565.38	439322.32	32°12'24.934"N	103°51'34.088"W	0.19	
1199.20	0.790	293.850	1199.05	-10.13	-1.68	-15.98	646564.12	439322.85	32°12'24.939"N	103°51'34.102"W	0.09	
1293.70	0.730	288.290	1293.54	-11.27	-1.23	-17.15	646562.95	439323.30	32°12'24.944"N	103°51'34.116"W	0.10	
1388.20	0.660	246.050	1388.04	-12.01	-1.26	-18.22	646561.88	439323.27	32°12'24.944"N	103°51'34.128"W	0.53	
1482.70	0.580	229.870	1482.53	-12.24	-1.79	-19.08	646561.02	439322.74	32°12'24.938"N	103°51'34.138"W	0.20	
1577.20	0.410	201.070	1577.03	-12.15	-2.41	-19.57	646560.53	439322.12	32°12'24.932"N	103°51'34.144"W	0.31	
1671.70	0.140	225.140	1671.53	-12.01	-2.81	-19.77	646560.33	439321.72	32°12'24.928"N	103°51'34.146"W	0.30	
1766.20	0.220	149.200	1766.03	-11.84	-3.05	-19.76	646560.34	439321.48	32°12'24.926"N	103°51'34.146"W	0.24	
1860.70	0.120	124.680	1860.53	-11.56	-3.26	-19.59	646560.51	439321.27	32°12'24.924"N	103°51'34.144"W	0.13	
1955.20	0.110	277.280	1955.03	-11.54	-3.30	-19.60	646560.51	439321.23	32°12'24.923"N	103°51'34.144"W	0.24	
2049.70	0.220	228.300	2049.53	-11.62	-3.41	-19.82	646560.28	439321.12	32°12'24.922"N	103°51'34.147"W	0.18	
2144.10	0.460	220.480	2143.92	-11.60	-3.82	-20.20	646559.90	439320.71	32°12'24.918"N	103°51'34.151"W	0.26	
2238.60	0.640	221.060	2238.42	-11.54	-4.51	-20.80	646559.31	439320.02	32°12'24.912"N	103°51'34.158"W	0.19	
2333.10	0.570	215.480	2332.92	-11.42	-5.29	-21.42	646558.69	439319.24	32°12'24.904"N	103°51'34.166"W	0.10	
2427.60	0.510	217.250	2427.41	-11.29	-6.01	-21.94	646558.16	439318.52	32°12'24.897"N	103°51'34.172"W	0.07	
2522.10	0.320	240.850	2521.91	-11.31	-6.47	-22.43	646557.67	439318.06	32°12'24.892"N	103°51'34.177"W	0.27	
2616.60	0.350	230.640	2616.41	-11.41	-6.78	-22.88	646557.22	439317.75	32°12'24.889"N	103°51'34.183"W	0.07	
2711.10	0.250	230.750	2710.91	-11.46	-7.09	-23.26	646556.84	439317.44	32°12'24.886"N	103°51'34.187"W	0.11	
2805.60	0.170	172.970	2805.41	-11.37	-7.36	-23.41	646556.69	439317.17	32°12'24.883"N	103°51'34.189"W	0.23	
2900.10	0.120	174.060	2899.90	-11.18	-7.60	-23.38	646556.72	439316.93	32°12'24.881"N	103°51'34.189"W	0.05	
2994.60	0.230	199.370	2994.40	-11.02	-7.88	-23.43	646556.67	439316.65	32°12'24.878"N	103°51'34.189"W	0.14	
3089.00	0.320	224.010	3088.80	-10.93	-8.25	-23.68	646556.42	439316.28	32°12'24.875"N	103°51'34.192"W	0.16	
3183.50	0.290	174.480	3183.30	-10.75	-8.68	-23.84	646556.26	439315.86	32°12'24.870"N	103°51'34.194"W	0.27	
3278.00	0.460	141.540	3277.80	-10.18	-9.21	-23.58	646556.52	439315.32	32°12'24.865"N	103°51'34.191"W	0.28	
3372.50	0.610	142.350	3372.30	-9.31	-9.91	-23.04	646557.07	439314.63	32°12'24.858"N	103°51'34.185"W	0.16	
3467.00	0.490	159.730	3466.79	-8.44	-10.68	-22.59	646557.51	439313.85	32°12'24.851"N	103°51'34.180"W	0.22	
3561.50	0.490	159.060	3561.29	-7.71	-11.44	-22.30	646557.80	439313.09	32°12'24.843"N	103°51'34.176"W	0.01	
3656.00	0.620	156.390	3655.78	-6.86	-12.29	-21.96	646558.15	439312.25	32°12'24.835"N	103°51'34.172"W	0.14	
3750.50	0.610	144.240	3750.28	-5.89	-13.16	-21.46	646558.64	439311.37	32°12'24.826"N	103°51'34.166"W	0.14	
3845.00	0.490	143.030	3844.77	-4.99	-13.89	-20.92	646559.18	439310.64	32°12'24.819"N	103°51'34.160"W	0.13	
3939.40	0.290	147.980	3939.17	-4.36	-14.42	-20.55	646559.55	439310.11	32°12'24.814"N	103°51'34.156"W	0.21	
4033.90	0.210	186.820	4033.67	-4.02	-14.79	-20.44	646559.66	439309.74	32°12'24.810"N	103°51'34.155"W	0.19	



Actual Wellpath Report

No.342H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.342H SHL
Area	Eddy County, NM	Well	No. 342H
Field	Poker Lake Unit	Wellbore	No.342H AWB
Facility	Poker Lake Unit No. 342H		

WELLPATH DATA (180 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
4128.40	0.150	195.300	4128.17	-3.85	-15.08	-20.50	646559.60	439309.45	32°12'24.807"N	103°51'34.155"W	0.07	
4222.90	0.140	152.670	4222.67	-3.68	-15.31	-20.48	646559.62	439309.23	32°12'24.805"N	103°51'34.155"W	0.11	
4317.40	0.250	128.070	4317.17	-3.37	-15.54	-20.26	646559.84	439309.00	32°12'24.802"N	103°51'34.153"W	0.14	
4411.90	0.280	157.450	4411.67	-2.95	-15.88	-20.01	646560.09	439308.66	32°12'24.799"N	103°51'34.150"W	0.15	
4506.40	0.260	154.160	4506.17	-2.53	-16.28	-19.83	646560.27	439308.25	32°12'24.795"N	103°51'34.148"W	0.03	
4600.90	0.230	163.300	4600.67	-2.16	-16.66	-19.68	646560.42	439307.87	32°12'24.791"N	103°51'34.146"W	0.05	
4695.40	0.240	166.860	4695.17	-1.83	-17.03	-19.58	646560.52	439307.50	32°12'24.788"N	103°51'34.145"W	0.02	
4789.90	0.340	192.200	4789.66	-1.51	-17.50	-19.60	646560.51	439307.03	32°12'24.783"N	103°51'34.145"W	0.17	
4884.40	0.410	191.770	4884.16	-1.17	-18.10	-19.72	646560.38	439306.43	32°12'24.777"N	103°51'34.147"W	0.07	
4978.80	0.400	200.170	4978.56	-0.85	-18.74	-19.91	646560.20	439305.79	32°12'24.771"N	103°51'34.149"W	0.06	
5073.30	0.360	215.220	5073.06	-0.66	-19.30	-20.19	646559.91	439305.24	32°12'24.765"N	103°51'34.152"W	0.11	
5167.80	0.500	211.710	5167.56	-0.52	-19.89	-20.58	646559.52	439304.64	32°12'24.759"N	103°51'34.157"W	0.15	
5262.30	0.500	211.570	5262.05	-0.33	-20.59	-21.01	646559.09	439303.94	32°12'24.752"N	103°51'34.162"W	0.00	
5356.80	0.470	216.180	5356.55	-0.17	-21.25	-21.46	646558.65	439303.28	32°12'24.746"N	103°51'34.167"W	0.05	
5451.30	0.370	227.120	5451.05	-0.13	-21.78	-21.91	646558.19	439302.76	32°12'24.741"N	103°51'34.172"W	0.04	
5545.80	0.120	239.920	5545.55	-0.16	-22.03	-22.22	646557.88	439302.50	32°12'24.738"N	103°51'34.176"W	0.27	
5640.30	0.050	284.160	5640.05	-0.22	-22.07	-22.34	646557.76	439302.46	32°12'24.738"N	103°51'34.177"W	0.10	
5734.80	0.110	213.250	5734.55	-0.24	-22.14	-22.43	646557.67	439302.39	32°12'24.737"N	103°51'34.178"W	0.11	
5829.30	0.270	156.360	5829.04	-0.02	-22.42	-22.39	646557.71	439302.11	32°12'24.734"N	103°51'34.178"W	0.24	
5923.70	0.520	144.940	5923.44	0.61	-22.97	-22.06	646558.04	439301.56	32°12'24.729"N	103°51'34.174"W	0.28	
6018.20	0.300	91.600	6017.94	1.22	-23.33	-21.56	646558.54	439301.20	32°12'24.725"N	103°51'34.168"W	0.44	
6112.70	0.470	123.810	6112.44	1.78	-23.55	-21.00	646559.11	439300.98	32°12'24.723"N	103°51'34.162"W	0.28	
6207.20	0.510	136.330	6206.93	2.58	-24.07	-20.38	646559.72	439300.46	32°12'24.718"N	103°51'34.155"W	0.12	
6301.20	0.700	143.030	6300.93	3.56	-24.83	-19.75	646560.35	439299.70	32°12'24.710"N	103°51'34.147"W	0.22	
6396.20	0.680	132.650	6395.92	4.70	-25.68	-18.99	646561.12	439298.85	32°12'24.702"N	103°51'34.138"W	0.13	
6490.70	0.560	138.780	6490.42	5.72	-26.41	-18.27	646561.83	439298.13	32°12'24.695"N	103°51'34.130"W	0.14	
6585.20	0.640	153.310	6584.91	6.68	-27.23	-17.73	646562.37	439297.31	32°12'24.687"N	103°51'34.124"W	0.18	
6679.70	0.640	143.840	6679.41	7.71	-28.12	-17.18	646562.92	439296.41	32°12'24.678"N	103°51'34.117"W	0.11	
6774.10	0.870	152.080	6773.80	8.91	-29.18	-16.53	646563.57	439295.35	32°12'24.667"N	103°51'34.110"W	0.27	
6868.60	0.950	154.950	6868.29	10.33	-30.53	-15.86	646564.24	439294.01	32°12'24.654"N	103°51'34.102"W	0.10	
6963.10	1.010	159.890	6962.77	11.82	-32.02	-15.25	646564.85	439292.51	32°12'24.639"N	103°51'34.095"W	0.11	
7057.60	1.150	171.180	7057.26	13.34	-33.74	-14.81	646565.29	439290.80	32°12'24.622"N	103°51'34.090"W	0.27	
7152.10	1.230	175.320	7151.73	14.88	-35.68	-14.59	646565.51	439288.85	32°12'24.603"N	103°51'34.088"W	0.12	
7246.60	1.400	174.300	7246.21	16.55	-37.84	-14.39	646565.71	439286.69	32°12'24.581"N	103°51'34.085"W	0.18	
7306.00	1.800	173.200	7305.59	17.84	-39.49	-14.21	646565.89	439285.04	32°12'24.565"N	103°51'34.083"W	0.68	
7337.00	3.100	161.200	7336.56	18.98	-40.77	-13.88	646566.22	439283.76	32°12'24.552"N	103°51'34.080"W	4.49	
7369.00	5.600	152.300	7368.46	21.24	-42.97	-12.87	646567.23	439281.56	32°12'24.531"N	103°51'34.068"W	8.07	
7400.00	8.500	150.000	7399.23	24.90	-46.30	-11.02	646569.08	439278.24	32°12'24.498"N	103°51'34.047"W	9.40	
7431.00	11.100	147.200	7429.77	30.03	-50.79	-8.26	646571.84	439273.74	32°12'24.453"N	103°51'34.015"W	8.52	
7462.00	14.000	141.200	7460.03	36.67	-56.22	-4.30	646575.81	439268.31	32°12'24.399"N	103°51'33.969"W	10.24	
7494.00	16.700	137.500	7490.88	45.12	-62.63	1.24	646581.34	439261.91	32°12'24.336"N	103°51'33.905"W	8.97	
7526.00	19.700	135.400	7521.28	55.10	-69.86	8.13	646588.23	439254.67	32°12'24.264"N	103°51'33.825"W	9.59	
7558.00	22.700	136.700	7551.11	66.67	-78.20	16.16	646596.26	439246.34	32°12'24.181"N	103°51'33.732"W	9.49	
7589.00	25.700	137.800	7579.38	79.37	-87.53	24.78	646604.87	439237.00	32°12'24.088"N	103°51'33.632"W	9.79	
7619.00	28.300	137.200	7606.11	92.97	-97.57	33.98	646614.08	439226.97	32°12'23.988"N	103°51'33.526"W	8.71	



Actual Wellpath Report

No.342H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.342H SHL
Area	Eddy County, NM	Well	No. 342H
Field	Poker Lake Unit	Wellbore	No.342H AWP
Facility	Poker Lake Unit No. 342H		

WELLPATH DATA (180 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
7650.00	31.500	136.400	7632.98	108.42	-108.83	44.56	646624.66	439215.71	32°12'23.876"N	103°51'33.403"W	10.40	
7682.00	35.500	136.100	7659.66	126.07	-121.58	56.77	646636.87	439202.96	32°12'23.750"N	103°51'33.262"W	12.51	
7712.00	39.900	135.600	7683.39	144.41	-134.74	69.55	646649.65	439189.80	32°12'23.619"N	103°51'33.114"W	14.70	
7744.00	44.900	135.200	7707.02	165.98	-150.10	84.70	646664.79	439174.44	32°12'23.466"N	103°51'32.938"W	15.65	
7775.00	49.800	134.500	7728.01	188.77	-166.17	100.86	646680.95	439158.37	32°12'23.307"N	103°51'32.751"W	15.89	
7806.00	55.200	134.200	7746.88	213.35	-183.35	118.44	646698.54	439141.19	32°12'23.136"N	103°51'32.547"W	17.44	
7837.00	60.100	134.000	7763.46	239.53	-201.57	137.25	646717.34	439122.97	32°12'22.955"N	103°51'32.329"W	15.82	
7869.00	65.700	134.300	7778.03	268.01	-221.41	157.68	646737.77	439103.14	32°12'22.758"N	103°51'32.092"W	17.52	
7901.00	70.900	134.700	7789.86	297.73	-242.24	178.87	646758.96	439082.31	32°12'22.550"N	103°51'31.847"W	16.29	
7932.00	76.500	134.800	7798.56	327.47	-263.18	200.00	646780.08	439061.37	32°12'22.342"N	103°51'31.602"W	18.07	
7963.00	82.500	134.600	7804.20	357.94	-284.61	221.65	646801.74	439039.94	32°12'22.129"N	103°51'31.351"W	19.37	
7995.00	87.800	134.000	7806.91	389.81	-306.87	244.46	646824.55	439017.68	32°12'21.908"N	103°51'31.087"W	16.67	
8026.00	89.000	134.500	7807.77	420.79	-328.49	266.66	646846.74	438996.06	32°12'21.693"N	103°51'30.830"W	4.19	
8105.00	89.100	133.500	7809.08	499.77	-383.36	323.48	646903.56	438941.19	32°12'21.148"N	103°51'30.171"W	1.27	
8136.00	88.900	133.400	7809.62	530.75	-404.68	345.98	646926.06	438919.88	32°12'20.936"N	103°51'29.910"W	0.72	
8168.00	88.400	133.900	7810.38	562.74	-426.76	369.13	646949.20	438897.80	32°12'20.716"N	103°51'29.642"W	2.21	
8262.00	88.200	134.100	7813.17	656.68	-492.03	436.72	647016.79	438832.53	32°12'20.067"N	103°51'28.859"W	0.30	
8356.00	87.000	133.700	7817.10	750.58	-557.15	504.39	647084.45	438767.42	32°12'19.420"N	103°51'28.075"W	1.35	
8449.00	87.700	134.400	7821.40	843.47	-621.74	571.16	647151.22	438702.83	32°12'18.778"N	103°51'27.301"W	1.06	
8543.00	87.300	134.500	7825.50	937.38	-687.51	638.20	647218.25	438637.07	32°12'18.124"N	103°51'26.524"W	0.44	
8637.00	88.000	135.000	7829.36	1031.30	-753.63	704.90	647284.95	438570.95	32°12'17.467"N	103°51'25.751"W	0.91	
8731.00	90.200	135.500	7830.83	1125.28	-820.37	771.06	647351.11	438504.21	32°12'16.804"N	103°51'24.985"W	2.40	
8825.00	90.200	134.700	7830.51	1219.28	-886.96	837.41	647417.46	438437.63	32°12'16.142"N	103°51'24.216"W	0.85	
8918.00	90.400	134.900	7830.02	1312.28	-952.49	903.40	647483.44	438372.11	32°12'15.491"N	103°51'23.451"W	0.30	
9012.00	90.200	135.500	7829.53	1406.27	-1019.18	969.64	647549.67	438305.42	32°12'14.828"N	103°51'22.684"W	0.67	
9106.00	87.500	133.600	7831.41	1500.24	-1085.11	1036.60	647616.63	438239.50	32°12'14.172"N	103°51'21.908"W	3.51	
9200.00	89.900	134.300	7833.55	1594.19	-1150.32	1104.25	647684.28	438174.29	32°12'13.524"N	103°51'21.124"W	2.66	
9294.00	90.600	134.000	7833.14	1688.18	-1215.80	1171.70	647751.72	438108.82	32°12'12.873"N	103°51'20.343"W	0.81	
9388.00	90.600	133.000	7832.15	1782.15	-1280.50	1239.88	647819.90	438044.12	32°12'12.230"N	103°51'19.552"W	1.06	
9482.00	91.100	133.200	7830.76	1876.09	-1344.72	1308.51	647888.52	437979.90	32°12'11.591"N	103°51'18.757"W	0.57	
9576.00	87.100	129.200	7832.23	1969.84	-1406.60	1379.20	647959.20	437918.02	32°12'10.976"N	103°51'17.938"W	6.02	
9669.00	88.600	130.500	7835.72	2062.40	-1466.15	1450.54	648030.54	437858.48	32°12'10.384"N	103°51'17.110"W	2.13	
9763.00	93.600	131.900	7833.92	2156.15	-1528.04	1521.23	648101.23	437796.60	32°12'09.768"N	103°51'16.291"W	5.52	
9857.00	92.400	131.400	7829.00	2249.86	-1590.42	1591.37	648171.36	437734.22	32°12'09.148"N	103°51'15.478"W	1.38	
9951.00	92.400	132.200	7825.06	2343.64	-1653.02	1661.38	648241.37	437671.63	32°12'08.525"N	103°51'14.666"W	0.85	
10045.00	90.400	132.400	7822.77	2437.51	-1716.26	1730.89	648310.87	437608.39	32°12'07.896"N	103°51'13.861"W	2.14	
10139.00	88.100	131.900	7824.00	2531.38	-1779.33	1800.56	648380.54	437545.32	32°12'07.269"N	103°51'13.053"W	2.50	
10233.00	90.700	135.100	7824.98	2625.33	-1844.02	1868.73	648448.70	437480.64	32°12'06.626"N	103°51'12.263"W	4.39	
10327.00	89.400	133.500	7824.90	2719.32	-1909.67	1936.00	648515.97	437415.00	32°12'05.973"N	103°51'11.484"W	2.19	
10421.00	88.300	132.700	7826.79	2813.25	-1973.88	2004.62	648584.59	437350.79	32°12'05.335"N	103°51'10.689"W	1.45	
10515.00	89.400	134.900	7828.67	2907.20	-2038.92	2072.45	648652.41	437285.75	32°12'04.688"N	103°51'09.903"W	2.62	
10609.00	89.000	135.400	7829.98	3001.19	-2105.56	2138.74	648718.69	437219.12	32°12'04.026"N	103°51'09.135"W	0.68	
10702.00	90.100	136.900	7830.72	3094.16	-2172.62	2203.16	648783.11	437152.06	32°12'03.360"N	103°51'08.389"W	2.00	
10796.00	89.200	136.000	7831.29	3188.13	-2240.75	2267.92	648847.87	437083.94	32°12'02.683"N	103°51'07.638"W	1.35	
10890.00	89.000	135.300	7832.77	3282.11	-2307.95	2333.62	648913.56	437016.73	32°12'02.015"N	103°51'06.877"W	0.77	



Actual Wellpath Report

No.342H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.342H SHL
Area	Eddy County, NM	Well	No. 342H
Field	Poker Lake Unit	Wellbore	No.342H AWB
Facility	Poker Lake Unit No. 342H		

WELLPATH DATA (180 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
10984.00	88.700	134.200	7834.65	3376.09	-2374.12	2400.37	648980.30	436950.57	32°12'01.357"N	103°51'06.104"W	1.21	
11078.00	89.500	135.200	7836.13	3470.07	-2440.23	2467.17	649047.10	436884.47	32°12'00.700"N	103°51'05.330"W	1.36	
11172.00	90.300	136.100	7836.29	3564.06	-2507.44	2532.88	649112.81	436817.26	32°12'00.032"N	103°51'04.569"W	1.28	
11266.00	89.200	135.100	7836.70	3658.05	-2574.60	2598.64	649178.57	436750.10	32°11'59.364"N	103°51'03.807"W	1.58	
11360.00	89.100	135.400	7838.10	3752.04	-2641.35	2664.81	649244.73	436683.36	32°11'58.701"N	103°51'03.041"W	0.34	
11454.00	89.600	134.000	7839.16	3846.03	-2707.46	2731.62	649311.54	436617.25	32°11'58.044"N	103°51'02.267"W	1.58	
11548.00	88.300	133.700	7840.89	3940.00	-2772.57	2799.40	649379.31	436552.15	32°11'57.396"N	103°51'01.481"W	1.42	
11663.00	91.700	136.500	7840.89	4054.97	-2854.01	2880.55	649460.46	436470.71	32°11'56.587"N	103°51'00.541"W	3.83	
11757.00	90.500	136.100	7839.08	4148.92	-2921.96	2945.48	649525.38	436402.77	32°11'55.912"N	103°50'59.789"W	1.35	
11851.00	89.300	135.700	7839.25	4242.91	-2989.46	3010.90	649590.79	436335.27	32°11'55.241"N	103°50'59.031"W	1.35	
11945.00	87.400	135.700	7841.95	4336.86	-3056.70	3076.52	649656.41	436268.04	32°11'54.572"N	103°50'58.271"W	2.02	
12039.00	87.700	134.400	7845.97	4430.77	-3123.17	3142.87	649722.75	436201.58	32°11'53.912"N	103°50'57.503"W	1.42	
12132.00	88.200	133.500	7849.30	4523.69	-3187.67	3209.78	649789.66	436137.08	32°11'53.271"N	103°50'56.727"W	1.11	
12226.00	89.000	133.400	7851.59	4617.63	-3252.30	3278.00	649857.88	436072.46	32°11'52.628"N	103°50'55.937"W	0.86	
12320.00	90.200	134.600	7852.25	4711.61	-3317.59	3345.61	649925.48	436007.17	32°11'51.979"N	103°50'55.154"W	1.81	
12414.00	90.500	134.000	7851.68	4805.61	-3383.24	3412.89	649992.75	435941.52	32°11'51.326"N	103°50'54.374"W	0.71	
12508.00	88.800	133.000	7852.25	4899.57	-3447.94	3481.07	650060.93	435876.83	32°11'50.683"N	103°50'53.584"W	2.10	
12602.00	88.600	133.600	7854.38	4993.51	-3512.39	3549.46	650129.32	435812.38	32°11'50.042"N	103°50'52.792"W	0.67	
12696.00	88.600	134.800	7856.68	5087.47	-3577.90	3616.83	650196.68	435746.87	32°11'49.391"N	103°50'52.011"W	1.28	
12789.00	88.900	135.300	7858.71	5180.45	-3643.71	3682.52	650262.36	435681.07	32°11'48.737"N	103°50'51.250"W	0.63	
12883.00	89.700	136.900	7859.86	5274.42	-3711.43	3747.69	650327.53	435613.35	32°11'48.064"N	103°50'50.495"W	1.90	
12977.00	90.700	137.700	7859.53	5368.33	-3780.51	3811.43	650391.27	435544.28	32°11'47.377"N	103°50'49.757"W	1.36	
13071.00	91.200	138.600	7857.97	5462.17	-3850.52	3874.14	650453.97	435474.27	32°11'46.682"N	103°50'49.031"W	1.10	
13165.00	89.500	138.200	7857.40	5556.00	-3920.81	3936.54	650516.38	435403.99	32°11'45.983"N	103°50'48.309"W	1.86	
13258.00	89.900	137.900	7857.88	5648.86	-3989.97	3998.71	650578.54	435334.83	32°11'45.296"N	103°50'47.589"W	0.54	
13352.00	89.900	139.100	7858.05	5742.67	-4060.37	4061.00	650640.82	435264.43	32°11'44.597"N	103°50'46.868"W	1.28	
13446.00	88.500	139.100	7859.36	5836.41	-4131.42	4122.54	650702.35	435193.40	32°11'43.891"N	103°50'46.155"W	1.49	
13540.00	88.200	136.200	7862.07	5930.26	-4200.85	4185.83	650765.64	435123.97	32°11'43.201"N	103°50'45.423"W	3.10	
13634.00	88.000	136.100	7865.18	6024.19	-4268.60	4250.91	650830.72	435056.22	32°11'42.528"N	103°50'44.669"W	0.24	
13727.00	87.400	136.100	7868.92	6117.09	-4335.56	4315.34	650895.15	434989.27	32°11'41.862"N	103°50'43.923"W	0.65	
13821.00	88.100	135.700	7872.61	6211.01	-4403.01	4380.71	650960.51	434921.82	32°11'41.192"N	103°50'43.165"W	0.86	
13915.00	89.000	136.600	7874.99	6304.95	-4470.77	4445.81	651025.60	434854.06	32°11'40.518"N	103°50'42.412"W	1.35	
14009.00	88.000	135.400	7877.45	6398.90	-4538.37	4511.08	651090.87	434786.47	32°11'39.847"N	103°50'41.656"W	1.66	
14103.00	90.100	138.500	7879.00	6492.82	-4607.04	4575.23	651155.02	434717.81	32°11'39.164"N	103°50'40.913"W	3.98	
14134.00	89.600	137.300	7879.09	6523.77	-4630.04	4596.01	651175.80	434694.81	32°11'38.936"N	103°50'40.672"W	4.19	
14197.00	89.100	136.000	7879.80	6586.74	-4675.85	4639.25	651219.04	434649.00	32°11'38.480"N	103°50'40.171"W	2.21	
14291.00	88.600	134.400	7881.69	6680.72	-4742.53	4705.47	651285.25	434582.32	32°11'37.818"N	103°50'39.404"W	1.78	
14384.00	89.100	135.300	7883.55	6773.70	-4808.10	4771.39	651351.17	434516.75	32°11'37.166"N	103°50'38.641"W	1.11	
14478.00	91.000	137.500	7883.47	6867.66	-4876.17	4836.21	651415.98	434448.69	32°11'36.489"N	103°50'37.890"W	3.09	
14572.00	89.400	136.100	7883.14	6961.60	-4944.69	4900.55	651480.32	434380.18	32°11'35.808"N	103°50'37.145"W	2.26	
14666.00	86.400	132.500	7886.59	7055.51	-5010.28	4967.76	651547.52	434314.59	32°11'35.156"N	103°50'36.366"W	4.98	
14760.00	85.800	132.500	7892.98	7149.20	-5073.64	5036.91	651616.66	434251.24	32°11'34.526"N	103°50'35.565"W	0.64	
14853.00	84.500	132.500	7900.85	7241.78	-5136.24	5105.23	651684.98	434188.64	32°11'33.904"N	103°50'34.774"W	1.40	
14912.00	84.000	132.500	7906.76	7300.43	-5175.90	5148.51	651728.25	434148.98	32°11'33.509"N	103°50'34.272"W	0.85	
14965.00	84.000	132.500	7912.30	7353.09	-5211.51	5187.37	651767.11	434113.38	32°11'33.155"N	103°50'33.822"W	0.00	Proj to Bit



Actual Wellpath Report

No.342H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.342H SHL
Area	Eddy County, NM	Well	No. 342H
Field	Poker Lake Unit	Wellbore	No.342H AWB
Facility	Poker Lake Unit No. 342H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 342H Target #1		7805.00	-400.52	401.34	646981.41	438924.04	32°12'20.974"N	103°51'29.266"W	point
No. 342H Target #2		7835.00	-2284.43	2289.14	648869.08	437040.26	32°12'02.249"N	103°51'07.394"W	point
No. 342H PBHL		7900.00	-5192.88	5203.56	651783.30	434132.01	32°11'33.339"N	103°50'33.632"W	point

WELLPATH COMPOSITION - Ref Wellbore: No.342H AWB Ref Wellpath: No.342H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.80	7246.60	Generic gyro - northseeking (Standard)	GyroData Gyro <100-7246.6>	No.342H AWB
7246.60	14965.00	NaviTrak (Standard)	MWD NaviTrak <7306-XXXX>	No.342H AWB