



Actual Wellpath Report

No.340H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 340H SHL
Area	Eddy County, NM	Well	No.340H
Field	Poker Lake Unit	Wellbore	No.340H AWB
Facility	Poker Lake Unit No. 340H		

30-015-39732

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	Harrkol
Scale	0.999934	Report Generated	9/11/2012 at 4:22:52 PM
Convergence at slot	0.25° East	Database/Source file	WA Midland/No.340H_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	647868.88	441523.79	32°12'46.663"N	103°51'18.802"W
Facility Reference Pt			647868.88	441523.79	32°12'46.663"N	103°51'18.802"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.340H (KB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Rig on No.340H (KB) to Mean Sea Level	3446.00ft
Vertical Reference Pt	Rig on No.340H (KB)	Rig on No.340H (KB) to Mud Line at Slot (No. 340H SHL)	22.00ft
MD Reference Pt	Rig on No.340H (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	134.55°

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Area	Eddy County, NM	Well	No.340H
Field	Poker Lake Unit	Wellbore	No.340H AWB
Facility	Poker Lake Unit No. 340H		

WELLPATH DATA (127 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	0.000	0.00	0.00	0.00	0.00	647868.88	441523.79	32°12'46.663"N	103°51'18.802"W	0.00	
985.00	2.970	0.000	984.56	-17.90	25.52	0.00	647868.88	441549.31	32°12'46.915"N	103°51'18.801"W	0.30	
1235.00	2.300	105.800	1234.40	-18.05	30.64	4.83	647873.71	441554.42	32°12'46.966"N	103°51'18.744"W	1.69	
1612.00	1.300	89.500	1611.21	-8.39	28.61	16.38	647885.26	441552.40	32°12'46.945"N	103°51'18.610"W	0.30	
1988.00	0.400	122.100	1987.17	-4.10	27.95	21.76	647890.64	441551.74	32°12'46.938"N	103°51'18.547"W	0.26	
2362.00	0.000	294.400	2361.17	-2.82	27.26	22.87	647891.75	441551.05	32°12'46.932"N	103°51'18.535"W	0.11	
2738.00	0.200	162.100	2737.17	-2.24	26.64	23.07	647891.95	441550.42	32°12'46.925"N	103°51'18.532"W	0.05	
3113.00	0.200	151.500	3112.17	-1.04	25.44	23.58	647892.46	441549.23	32°12'46.914"N	103°51'18.526"W	0.01	
3492.00	1.500	118.800	3491.12	4.37	22.47	28.25	647897.12	441546.26	32°12'46.884"N	103°51'18.472"W	0.35	
3866.00	1.200	146.700	3865.02	12.91	16.84	34.69	647903.56	441540.62	32°12'46.828"N	103°51'18.398"W	0.19	
3991.00	1.200	140.700	3989.99	15.49	14.73	36.23	647905.11	441538.52	32°12'46.807"N	103°51'18.380"W	0.10	
4176.00	1.000	119.900	4174.96	18.98	12.42	38.86	647907.74	441536.21	32°12'46.784"N	103°51'18.349"W	0.24	
4553.00	0.500	122.500	4551.92	23.77	9.90	43.10	647911.98	441533.69	32°12'46.759"N	103°51'18.300"W	0.13	
4929.00	0.600	132.300	4927.90	27.34	7.69	45.94	647914.82	441531.48	32°12'46.737"N	103°51'18.267"W	0.04	
5307.00	0.400	137.200	5305.89	30.64	5.39	48.30	647917.18	441529.18	32°12'46.714"N	103°51'18.240"W	0.05	
5680.00	0.500	221.900	5678.88	32.01	3.23	48.10	647916.97	441527.02	32°12'46.693"N	103°51'18.242"W	0.16	
6055.00	0.700	188.500	6053.86	33.44	-0.26	46.67	647915.54	441523.53	32°12'46.658"N	103°51'18.259"W	0.11	
6432.00	0.800	186.000	6430.83	36.43	-5.15	46.05	647914.93	441518.64	32°12'46.610"N	103°51'18.267"W	0.03	
6807.00	1.200	190.500	6805.77	40.26	-11.62	45.06	647913.94	441512.18	32°12'46.546"N	103°51'18.278"W	0.11	
7090.00	1.000	150.400	7088.72	44.30	-16.68	45.74	647914.62	441507.11	32°12'46.496"N	103°51'18.271"W	0.27	
7121.00	1.200	133.900	7119.72	44.88	-17.14	46.11	647914.98	441506.65	32°12'46.491"N	103°51'18.266"W	1.20	
7152.00	2.800	136.000	7150.70	45.96	-17.91	46.87	647915.74	441505.88	32°12'46.484"N	103°51'18.258"W	5.17	
7184.00	4.400	132.200	7182.63	47.97	-19.29	48.32	647917.20	441504.50	32°12'46.470"N	103°51'18.241"W	5.05	
7216.00	6.300	132.400	7214.49	50.95	-21.30	50.53	647919.40	441502.49	32°12'46.450"N	103°51'18.215"W	5.94	
7247.00	8.900	134.200	7245.22	55.05	-24.12	53.50	647922.38	441499.67	32°12'46.422"N	103°51'18.181"W	8.42	
7278.00	12.600	135.400	7275.67	60.83	-28.20	57.60	647926.47	441495.59	32°12'46.381"N	103°51'18.133"W	11.96	
7309.00	17.000	135.300	7305.63	68.75	-33.83	63.16	647932.04	441489.96	32°12'46.325"N	103°51'18.069"W	14.19	
7341.00	21.600	134.400	7335.83	79.32	-41.28	70.66	647939.54	441482.51	32°12'46.251"N	103°51'17.982"W	14.40	
7373.00	26.200	134.000	7365.07	92.28	-50.32	79.96	647948.83	441473.48	32°12'46.161"N	103°51'17.874"W	14.38	
7403.00	30.600	135.400	7391.46	106.55	-60.36	90.09	647958.96	441463.43	32°12'46.062"N	103°51'17.757"W	14.83	



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Facility	Poker Lake Unit No. 340H		

WELLPATH DATA (127 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
7434.00	33.200	135.600	7417.77	122.92	-72.04	101.57	647970.44	441451.75	32°12'45.945"N	103°51'17.624"W	8.39	
7466.00	35.700	135.700	7444.16	141.02	-84.99	114.22	647983.09	441438.81	32°12'45.817"N	103°51'17.477"W	7.81	
7497.00	38.600	136.200	7468.87	159.73	-98.44	127.24	647996.11	441425.35	32°12'45.683"N	103°51'17.326"W	9.41	
7529.00	41.700	137.000	7493.32	180.35	-113.44	141.41	648010.28	441410.36	32°12'45.534"N	103°51'17.162"W	9.82	
7560.00	44.800	136.400	7515.90	201.57	-128.89	155.97	648024.84	441394.91	32°12'45.381"N	103°51'16.994"W	10.09	
7591.00	45.500	135.900	7537.76	223.54	-144.74	171.20	648040.07	441379.06	32°12'45.223"N	103°51'16.817"W	2.53	
7623.00	47.800	135.700	7559.73	246.81	-161.42	187.42	648056.29	441362.38	32°12'45.057"N	103°51'16.629"W	7.20	
7655.00	50.600	135.200	7580.63	271.02	-178.68	204.42	648073.28	441345.12	32°12'44.886"N	103°51'16.432"W	8.83	
7686.00	53.500	134.900	7599.70	295.47	-195.98	221.68	648090.55	441327.83	32°12'44.714"N	103°51'16.232"W	9.39	
7717.00	57.000	134.900	7617.36	320.93	-213.95	239.72	648108.59	441309.85	32°12'44.535"N	103°51'16.023"W	11.29	
7749.00	60.100	135.000	7634.06	348.23	-233.24	259.04	648127.90	441290.57	32°12'44.343"N	103°51'15.799"W	9.69	
7780.00	62.400	135.300	7648.97	375.40	-252.50	278.21	648147.07	441271.30	32°12'44.152"N	103°51'15.577"W	7.47	
7812.00	63.300	134.500	7663.57	403.88	-272.60	298.38	648167.24	441251.21	32°12'43.952"N	103°51'15.344"W	3.59	
7842.00	63.500	134.600	7677.00	430.70	-291.42	317.49	648186.35	441232.39	32°12'43.765"N	103°51'15.122"W	0.73	
7909.00	63.400	134.100	7706.95	490.63	-333.32	360.35	648229.21	441190.50	32°12'43.349"N	103°51'14.625"W	0.68	
7941.00	64.300	134.500	7721.05	519.36	-353.38	380.91	648249.76	441170.44	32°12'43.149"N	103°51'14.387"W	3.03	
7973.00	65.900	134.200	7734.53	548.38	-373.67	401.66	648270.52	441150.15	32°12'42.948"N	103°51'14.147"W	5.07	
8005.00	68.400	135.500	7746.95	577.87	-394.46	422.57	648291.42	441129.35	32°12'42.741"N	103°51'13.904"W	8.66	
8037.00	68.100	135.300	7758.81	607.59	-415.63	443.43	648312.28	441108.19	32°12'42.530"N	103°51'13.663"W	1.10	
8068.00	70.500	135.800	7769.77	636.58	-436.33	463.74	648332.59	441087.49	32°12'42.325"N	103°51'13.427"W	7.89	
8100.00	73.900	135.300	7779.55	667.04	-458.07	485.07	648353.92	441065.75	32°12'42.109"N	103°51'13.180"W	10.73	
8132.00	77.000	135.000	7787.59	698.00	-480.03	506.92	648375.76	441043.79	32°12'41.890"N	103°51'12.927"W	9.73	
8163.00	80.800	135.400	7793.55	728.42	-501.61	528.35	648397.19	441022.21	32°12'41.676"N	103°51'12.679"W	12.32	
8195.00	84.500	135.800	7797.65	760.14	-524.28	550.55	648419.39	440999.54	32°12'41.451"N	103°51'12.422"W	11.63	
8227.00	87.600	136.400	7799.85	792.05	-547.28	572.68	648441.52	440976.54	32°12'41.222"N	103°51'12.165"W	9.87	
8321.00	90.000	135.600	7801.82	885.99	-614.88	637.96	648506.80	440908.95	32°12'40.550"N	103°51'11.409"W	2.69	
8416.00	89.900	135.800	7801.90	980.97	-682.87	704.31	648573.14	440840.97	32°12'39.874"N	103°51'10.640"W	0.24	
8511.00	90.000	135.700	7801.98	1075.95	-750.92	770.60	648639.43	440772.92	32°12'39.198"N	103°51'09.872"W	0.15	
8606.00	89.900	131.500	7802.07	1170.92	-816.42	839.38	648708.20	440707.43	32°12'38.547"N	103°51'09.075"W	4.42	
8700.00	89.500	122.100	7802.56	1263.95	-872.66	914.56	648783.38	440651.19	32°12'37.987"N	103°51'08.203"W	10.01	



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Area	Eddy County, NM	Well	No.340H
Field	Poker Lake Unit	Wellbore	No.340H AWB
Facility	Poker Lake Unit No. 340H		

WELLPATH DATA (127 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
8795.00	89.000	124.800	7803.80	1357.16	-925.02	993.81	648862.63	440598.83	32°12'37.466"N	103°51'07.284"W	2.89	
8891.00	89.500	127.700	7805.06	1452.14	-981.77	1071.22	648940.02	440542.08	32°12'36.900"N	103°51'06.386"W	3.07	
8986.00	89.000	125.900	7806.31	1546.26	-1038.67	1147.28	649016.08	440485.19	32°12'36.334"N	103°51'05.503"W	1.97	
9082.00	89.000	131.100	7807.98	1641.68	-1098.40	1222.37	649091.17	440425.46	32°12'35.740"N	103°51'04.633"W	5.42	
9178.00	89.000	134.300	7809.66	1737.60	-1163.49	1292.90	649161.69	440360.38	32°12'35.092"N	103°51'03.815"W	3.33	
9272.00	89.100	135.000	7811.22	1831.59	-1229.54	1359.76	649228.55	440294.33	32°12'34.436"N	103°51'03.040"W	0.75	
9368.00	88.300	133.400	7813.39	1927.56	-1296.45	1428.57	649297.35	440227.43	32°12'33.771"N	103°51'02.243"W	1.86	
9463.00	88.500	134.700	7816.05	2022.52	-1362.47	1496.82	649365.60	440161.41	32°12'33.114"N	103°51'01.452"W	1.38	
9558.00	89.000	136.300	7818.12	2117.48	-1430.21	1563.39	649432.16	440093.67	32°12'32.441"N	103°51'00.681"W	1.76	
9653.00	89.500	137.500	7819.36	2212.39	-1499.57	1628.29	649497.06	440024.32	32°12'31.752"N	103°50'59.929"W	1.37	
9746.00	89.100	134.300	7820.50	2305.34	-1566.34	1693.00	649561.76	439957.55	32°12'31.088"N	103°50'59.180"W	3.47	
9841.00	89.000	136.500	7822.07	2400.31	-1633.97	1759.69	649628.45	439889.93	32°12'30.416"N	103°50'58.407"W	2.32	
9936.00	89.000	140.400	7823.73	2495.06	-1705.04	1822.68	649691.43	439818.86	32°12'29.710"N	103°50'57.678"W	4.10	
10031.00	89.100	146.200	7825.31	2588.90	-1781.17	1879.42	649748.17	439742.74	32°12'28.954"N	103°50'57.021"W	6.11	
10137.00	88.900	147.400	7827.16	2692.47	-1869.85	1937.45	649806.20	439654.06	32°12'28.074"N	103°50'56.350"W	1.15	
10232.00	89.500	143.100	7828.49	2785.78	-1947.88	1991.58	649860.33	439576.04	32°12'27.300"N	103°50'55.725"W	4.57	
10326.00	89.500	139.800	7829.31	2879.08	-2021.38	2050.15	649918.89	439502.54	32°12'26.570"N	103°50'55.047"W	3.51	
10421.00	89.400	140.000	7830.22	2973.66	-2094.05	2111.34	649980.08	439429.88	32°12'25.848"N	103°50'54.338"W	0.24	
10515.00	89.500	135.600	7831.12	3067.48	-2163.66	2174.47	650043.20	439360.27	32°12'25.156"N	103°50'53.608"W	4.68	
10610.00	89.000	134.400	7832.37	3162.47	-2230.83	2241.63	650110.36	439293.11	32°12'24.488"N	103°50'52.829"W	1.37	
10706.00	89.100	132.800	7833.96	3258.44	-2297.02	2311.14	650179.87	439226.92	32°12'23.830"N	103°50'52.024"W	1.67	
10800.00	88.900	131.400	7835.60	3352.34	-2360.03	2380.88	650249.59	439163.92	32°12'23.204"N	103°50'51.216"W	1.50	
10895.00	89.000	135.400	7837.34	3447.29	-2425.28	2449.87	650318.59	439098.67	32°12'22.555"N	103°50'50.416"W	4.21	
10991.00	88.900	133.900	7839.10	3543.27	-2492.73	2518.16	650386.87	439031.23	32°12'21.884"N	103°50'49.625"W	1.57	
11085.00	88.900	130.400	7840.90	3637.15	-2555.79	2587.82	650456.53	438968.17	32°12'21.257"N	103°50'48.817"W	3.72	
11180.00	88.900	128.800	7842.73	3731.78	-2616.34	2661.01	650529.71	438907.63	32°12'20.655"N	103°50'47.969"W	1.68	
11275.00	89.000	129.600	7844.47	3826.35	-2676.37	2734.61	650603.31	438847.60	32°12'20.058"N	103°50'47.115"W	0.85	
11369.00	88.900	130.800	7846.19	3920.06	-2737.03	2806.40	650675.09	438786.95	32°12'19.454"N	103°50'46.283"W	1.28	
11463.00	88.900	131.800	7848.00	4013.89	-2799.06	2877.00	650745.69	438724.92	32°12'18.837"N	103°50'45.465"W	1.06	
11558.00	89.000	134.700	7849.74	4108.84	-2864.13	2946.18	650814.86	438659.85	32°12'18.190"N	103°50'44.663"W	3.05	



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Facility	Poker Lake Unit No. 340H		

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11653.00	89.100	137.400	7851.31	4203.79	-2932.51	3012.10	650880.77	438591.48	32°12'17.511"N	103°50'43.900"W	2.84	
11748.00	89.500	138.300	7852.47	4298.62	-3002.94	3075.84	650944.51	438521.06	32°12'16.811"N	103°50'43.162"W	1.04	
11842.00	89.600	137.800	7853.21	4392.44	-3072.85	3138.68	651007.34	438451.15	32°12'16.116"N	103°50'42.434"W	0.54	
11937.00	89.400	136.100	7854.04	4487.35	-3142.26	3203.52	651072.19	438381.74	32°12'15.426"N	103°50'41.683"W	1.80	
12031.00	89.500	137.100	7854.94	4581.28	-3210.56	3268.11	651136.76	438313.45	32°12'14.748"N	103°50'40.935"W	1.07	
12126.00	89.000	135.000	7856.19	4676.24	-3278.94	3334.03	651202.68	438245.07	32°12'14.068"N	103°50'40.171"W	2.27	
12220.00	89.100	133.400	7857.75	4770.22	-3344.46	3401.41	651270.06	438179.55	32°12'13.417"N	103°50'39.391"W	1.71	
12315.00	89.000	136.900	7859.32	4865.19	-3411.79	3468.39	651337.03	438112.23	32°12'12.747"N	103°50'38.615"W	3.69	
12410.00	89.100	138.300	7860.90	4960.04	-3481.94	3532.43	651401.08	438042.09	32°12'12.050"N	103°50'37.873"W	1.48	
12504.00	89.000	140.100	7862.45	5053.71	-3553.08	3593.85	651462.48	437970.95	32°12'11.344"N	103°50'37.162"W	1.92	
12598.00	89.100	139.200	7864.01	5147.32	-3624.71	3654.70	651523.33	437899.33	32°12'10.632"N	103°50'36.458"W	0.96	
12693.00	89.300	137.500	7865.34	5242.10	-3695.68	3717.82	651586.45	437828.36	32°12'09.927"N	103°50'35.727"W	1.80	
12788.00	90.200	136.700	7865.75	5337.00	-3765.27	3782.49	651651.11	437758.77	32°12'09.235"N	103°50'34.978"W	1.27	
12883.00	91.500	134.400	7864.34	5431.97	-3833.08	3849.00	651717.62	437690.97	32°12'08.561"N	103°50'34.208"W	2.78	
12977.00	93.000	132.900	7860.65	5525.88	-3897.91	3916.96	651785.58	437626.15	32°12'07.917"N	103°50'33.420"W	2.26	
13073.00	91.500	131.000	7856.88	5621.70	-3962.03	3988.30	651856.91	437562.03	32°12'07.279"N	103°50'32.593"W	2.52	
13168.00	89.400	130.500	7856.14	5716.48	-4024.03	4060.26	651928.87	437500.03	32°12'06.662"N	103°50'31.759"W	2.27	
13263.00	89.500	137.200	7857.05	5811.42	-4089.81	4128.73	651997.33	437434.26	32°12'06.008"N	103°50'30.966"W	7.05	
13357.00	89.000	137.900	7858.28	5905.28	-4159.16	4192.17	652060.77	437364.91	32°12'05.319"N	103°50'30.231"W	0.92	
13452.00	89.000	137.500	7859.94	6000.12	-4229.41	4256.10	652124.69	437294.66	32°12'04.621"N	103°50'29.491"W	0.42	
13547.00	89.000	140.500	7861.60	6094.81	-4301.09	4318.41	652186.99	437222.99	32°12'03.909"N	103°50'28.770"W	3.16	
13642.00	88.800	145.400	7863.42	6188.74	-4376.88	4375.62	652244.20	437147.21	32°12'03.157"N	103°50'28.108"W	5.16	
13737.00	89.000	142.200	7865.25	6282.48	-4453.51	4431.71	652300.29	437070.58	32°12'02.396"N	103°50'27.460"W	3.37	
13831.00	89.000	138.100	7866.89	6375.99	-4525.65	4491.92	652360.49	436998.44	32°12'01.679"N	103°50'26.763"W	4.36	
13925.00	88.900	138.300	7868.61	6469.79	-4595.72	4554.56	652423.13	436928.39	32°12'00.983"N	103°50'26.037"W	0.24	
14020.00	89.000	134.100	7870.35	6564.71	-4664.26	4620.29	652488.85	436859.85	32°12'00.302"N	103°50'25.276"W	4.42	
14115.00	88.900	132.400	7872.09	6659.67	-4729.33	4689.47	652558.03	436794.78	32°11'59.655"N	103°50'24.475"W	1.79	
14209.00	89.100	124.200	7873.74	6753.01	-4787.53	4763.16	652631.72	436736.58	32°11'59.075"N	103°50'23.620"W	8.72	
14305.00	89.400	120.100	7874.99	6846.75	-4838.60	4844.42	652712.97	436685.51	32°11'58.566"N	103°50'22.677"W	4.28	
14400.00	89.400	119.800	7875.99	6938.68	-4886.03	4926.73	652795.27	436638.09	32°11'58.093"N	103°50'21.722"W	0.32	



Actual Wellpath Report

No.340H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 340H SHL
Area	Eddy County, NM	Well	No.340H
Field	Poker Lake Unit	Wellbore	No.340H AWB
Facility	Poker Lake Unit No. 340H		

WELLPATH DATA (127 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
14495.00	89.500	122.000	7876.90	7030.99	-4934.81	5008.24	652876.78	436589.31	32°11'57.607"N	103°50'20.776"W	2.32	
14590.00	89.500	127.300	7877.73	7124.54	-4988.80	5086.36	652954.89	436535.33	32°11'57.069"N	103°50'19.870"W	5.58	
14683.00	89.000	133.000	7878.95	7217.22	-5048.74	5157.41	653025.94	436475.39	32°11'56.473"N	103°50'19.046"W	6.15	
14778.00	89.000	138.400	7880.61	7312.15	-5116.69	5223.72	653092.25	436407.44	32°11'55.797"N	103°50'18.278"W	5.68	
14873.00	88.900	138.100	7882.35	7406.93	-5187.56	5286.97	653155.49	436336.58	32°11'55.093"N	103°50'17.546"W	0.33	
14941.00	88.900	133.600	7883.66	7474.89	-5236.33	5334.31	653202.83	436287.82	32°11'54.608"N	103°50'16.998"W	6.62	
15014.00	88.900	133.600	7885.06	7547.86	-5286.66	5387.17	653255.68	436237.49	32°11'54.108"N	103°50'16.385"W	0.00	Projection to bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Target No.1		7793.00	-463.50	470.92	648339.77	441060.32	32°12'42.056"N	103°51'13.345"W	point
Poker Lake Unit No. 340H PBHL (Rev-1)		7886.00	-5305.09	5389.96	653258.47	436219.06	32°11'53.925"N	103°50'16.354"W	point

WELLPATH COMPOSITION - Ref Wellbore: No.340H AWB Ref Wellpath: No.340H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	985.00	Drift Indicator (Standard)	Rig Shot	No.340H AWB
985.00	3991.00	NaviTrak (Standard)	BHI MWD NaviTrak <1235-3991> 12 1/4" Hole	No.340H AWB
3991.00	14941.00	NaviTrak (Standard)	BHI MWD NaviTrak <4176-XXXX>	No.340H AWB
14941.00	15014.00	Blind Drilling (std)	Projection to bit	No.340H AWB



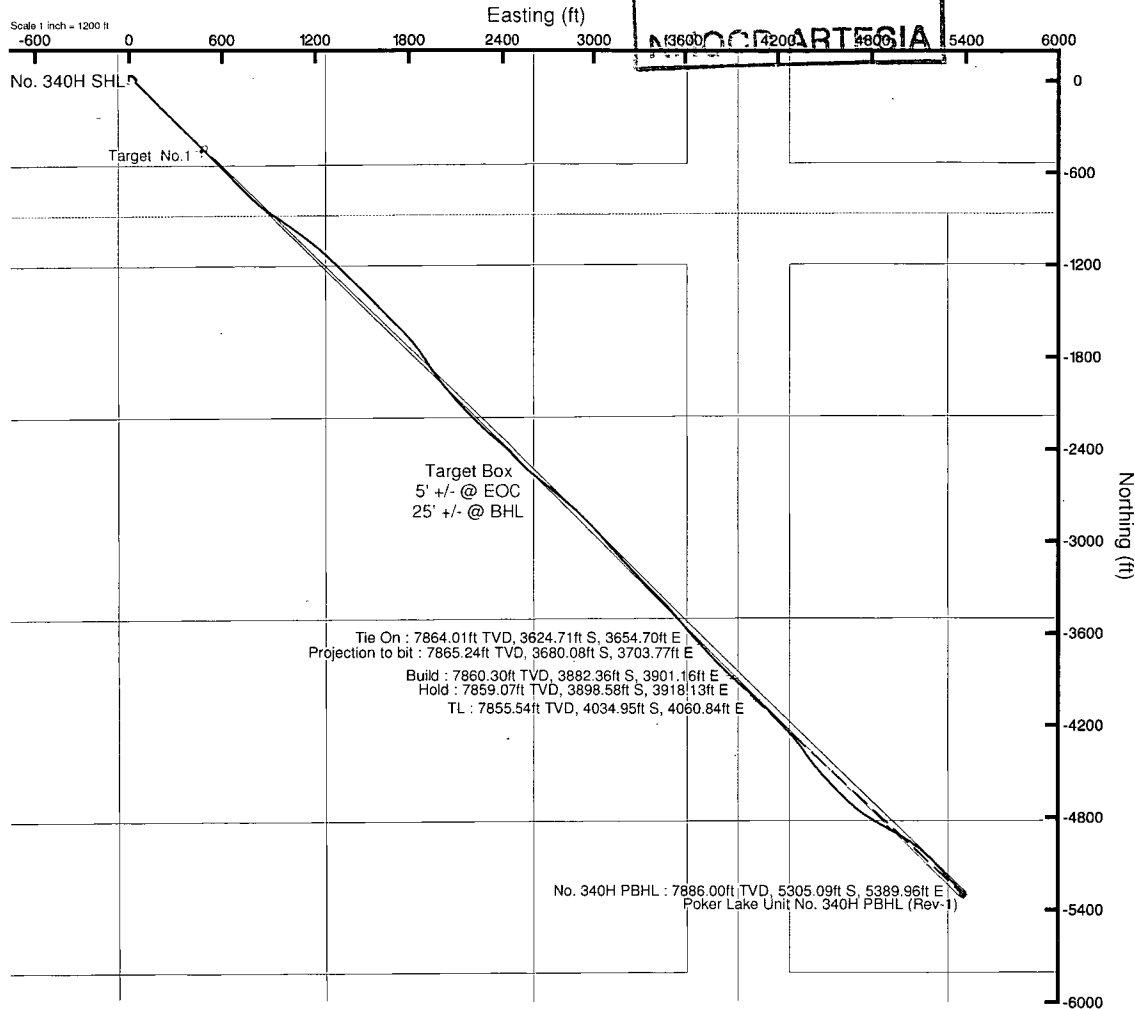
BOPCO, L.P.

Location: Eddy County, NM
Field: Poker Lake Unit
Facility: Poker Lake Unit No. 340H

Slot: No. 340H SHL
Well: No. 340H
Wellbore: No. 340H PWB

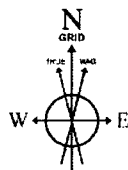
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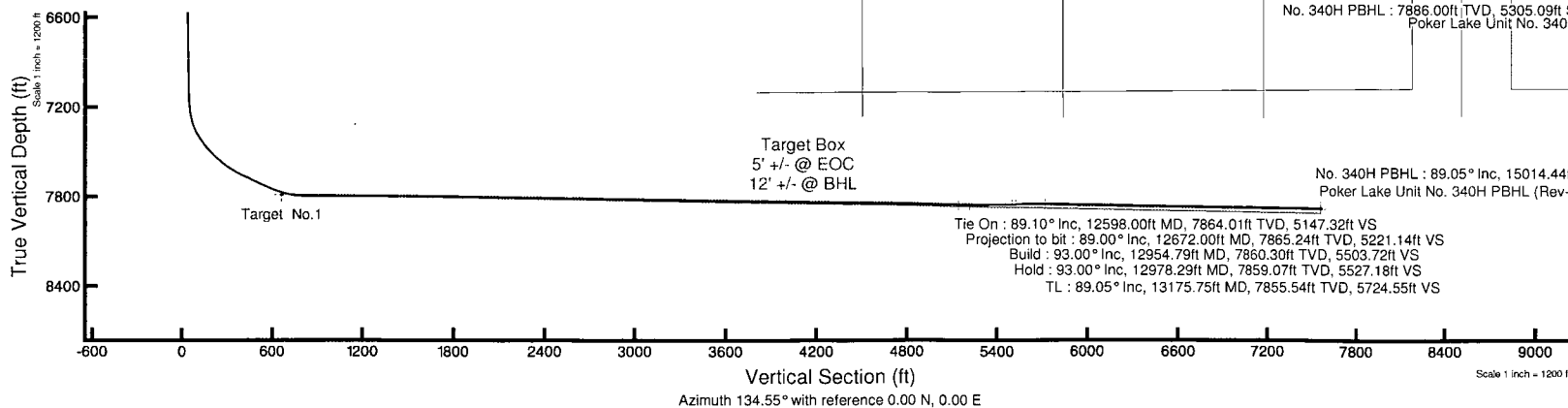


Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (7100ft)	VS (ft)
Tie On	12598.00	89.100	139.200	7864.01	-3624.71	3654.70	0.00	5147.32
Projection to bit	12672.00	89.000	137.700	7865.24	-3680.08	3703.77	2.03	5221.14
Build	12954.79	93.000	133.700	7860.30	-3882.36	3901.16	2.00	5503.72
Hold	12978.29	93.000	133.700	7859.07	-3898.58	3918.13	0.00	5527.18
TL	13175.75	89.051	133.700	7855.54	-4034.95	4060.84	2.00	5724.55
No. 340H PBHL	15014.44	89.051	133.700	7886.00	-5305.09	5389.96	0.00	7562.78

Plot reference wellpath is Rev-G.0	
True vertical depths are referenced to Rig on No. 340H (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 340H (KB)	North Reference: Grid north
Rig on No. 340H (KB) to Mean Sea Level: 3446 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No. 340H SHL): -3424 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: harkol on 9/6/2012



BGGM (1945.0 to 2014.0) Dip: 60.06° Field: 48452.5 nT
Magnetic North is 7.67 degrees East of True North (at 8/13/2012)
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 7.42 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.42 = 97.42



Rev-G.0