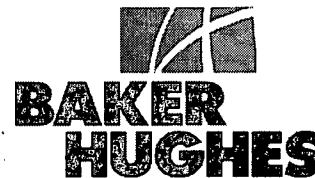




Actual Wellpath Report

No. 364H AWP

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15-40800

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 364H SHL
Area	Eddy County, NM	Well	No. 364H
Field	Poker Lake Unit	Wellbore	No. 364H AWB
Facility	Poker Lake Unit No. 364H		

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	0.999931	Report Generated	04/08/2013 at 10:24:56 PM
Convergence at slot	0.24° East	Database/Source file	WA Midland/No. 364H_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	639586.65	427439.57	32°10'27.638"N	103°52'55.893"W
Facility Reference Pt			639586.65	427439.57	32°10'27.638"N	103°52'55.893"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. 364H SHL (KB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Rig on No. 364H SHL (KB) to Mean Sea Level	3324.00ft
Vertical Reference Pt	Rig on No. 364H SHL (KB)	Rig on No. 364H SHL (KB) to Mud Line at Slot (No. 364H SHL)	22.00ft
MD Reference Pt	Rig on No. 364H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	314.48°



Actual Wellpath Report

No. 364H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 364H SHL
Area	Eddy County, NM	Well	No. 364H
Field	Poker Lake Unit	Wellbore	No. 364H AWP
Facility	Poker Lake Unit No. 364H		

WELLPATH DATA (140 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	26.730	0.00	0.00	0.00	0.00	639586.65	427439.57	32°10'27.638"N	103°52'55.893"W	0.00	
100.00	1.150	26.730	99.99	0.31	0.90	0.45	639587.10	427440.47	32°10'27.647"N	103°52'55.887"W	1.15	
141.40	1.210	29.260	141.38	0.55	1.65	0.85	639587.50	427441.22	32°10'27.654"N	103°52'55.883"W	0.19	
182.80	1.150	30.100	182.78	0.77	2.39	1.27	639587.92	427441.96	32°10'27.662"N	103°52'55.878"W	0.15	
224.20	1.290	26.770	224.17	1.01	3.16	1.69	639588.34	427442.73	32°10'27.669"N	103°52'55.873"W	0.38	
265.60	1.300	29.790	265.56	1.27	3.99	2.14	639588.79	427443.56	32°10'27.677"N	103°52'55.868"W	0.17	
307.00	1.210	18.620	306.95	1.58	4.81	2.51	639589.16	427444.38	32°10'27.686"N	103°52'55.863"W	0.63	
348.40	1.070	16.960	348.34	1.95	5.59	2.76	639589.41	427445.16	32°10'27.693"N	103°52'55.860"W	0.35	
389.80	0.730	8.540	389.73	2.28	6.22	2.91	639589.56	427445.79	32°10'27.700"N	103°52'55.858"W	0.88	
431.20	0.500	357.090	431.13	2.57	6.67	2.94	639589.59	427446.24	32°10'27.704"N	103°52'55.858"W	0.63	
472.60	0.530	338.500	472.53	2.88	7.02	2.86	639589.51	427446.59	32°10'27.707"N	103°52'55.859"W	0.41	
514.00	0.610	321.540	513.93	3.27	7.38	2.66	639589.31	427446.94	32°10'27.711"N	103°52'55.861"W	0.45	
555.40	0.690	330.110	555.32	3.73	7.76	2.39	639589.04	427447.33	32°10'27.715"N	103°52'55.864"W	0.30	
596.80	0.700	330.950	596.72	4.21	8.20	2.15	639588.80	427447.77	32°10'27.719"N	103°52'55.867"W	0.03	
638.20	0.770	332.660	638.12	4.72	8.67	1.90	639588.55	427448.24	32°10'27.724"N	103°52'55.870"W	0.18	
679.60	0.940	333.320	679.51	5.31	9.22	1.62	639588.27	427448.79	32°10'27.729"N	103°52'55.873"W	0.41	
721.00	1.200	329.950	720.91	6.05	9.90	1.25	639587.90	427449.47	32°10'27.736"N	103°52'55.878"W	0.65	
762.40	1.490	326.360	762.29	6.99	10.72	0.73	639587.38	427450.29	32°10'27.744"N	103°52'55.884"W	0.73	
803.80	1.730	325.100	803.68	8.13	11.68	0.08	639586.73	427451.25	32°10'27.754"N	103°52'55.891"W	0.59	
845.20	1.720	323.630	845.06	9.36	12.70	-0.65	639586.00	427452.26	32°10'27.764"N	103°52'55.900"W	0.11	
886.60	1.680	323.690	886.44	10.57	13.68	-1.38	639585.27	427453.25	32°10'27.774"N	103°52'55.908"W	0.10	
928.00	1.730	323.630	927.82	11.79	14.68	-2.11	639584.54	427454.25	32°10'27.783"N	103°52'55.916"W	0.12	
945.00	1.940	322.860	944.81	12.33	15.11	-2.43	639584.22	427454.68	32°10'27.788"N	103°52'55.920"W	1.24	
994.00	1.800	330.300	993.79	13.89	16.44	-3.32	639583.33	427456.01	32°10'27.801"N	103°52'55.930"W	0.57	
1183.00	1.600	355.600	1182.71	18.73	21.65	-4.99	639581.66	427461.22	32°10'27.852"N	103°52'55.950"W	0.41	
1373.00	1.200	29.200	1372.65	21.25	26.03	-4.22	639582.43	427465.60	32°10'27.896"N	103°52'55.941"W	0.47	
1563.00	1.700	45.100	1562.59	21.75	29.76	-1.25	639585.40	427469.33	32°10'27.933"N	103°52'55.906"W	0.34	
1752.00	1.300	67.700	1751.53	20.87	32.55	2.71	639589.36	427472.12	32°10'27.960"N	103°52'55.860"W	0.37	
1942.00	0.900	119.100	1941.50	18.58	32.64	6.01	639592.66	427472.21	32°10'27.961"N	103°52'55.821"W	0.54	
2132.00	1.500	129.900	2131.46	14.67	30.32	9.22	639595.87	427469.89	32°10'27.938"N	103°52'55.784"W	0.34	
2322.00	1.200	181.000	2321.41	10.82	26.74	11.10	639597.75	427466.31	32°10'27.902"N	103°52'55.762"W	0.63	
2512.00	0.800	302.800	2511.39	10.75	25.47	9.95	639596.60	427465.04	32°10'27.890"N	103°52'55.776"W	0.93	
2702.00	1.400	286.300	2701.36	14.09	26.84	6.61	639593.25	427466.41	32°10'27.903"N	103°52'55.815"W	0.35	
2891.00	0.800	279.600	2890.32	17.21	27.71	3.09	639589.74	427467.27	32°10'27.912"N	103°52'55.855"W	0.32	
3081.00	0.500	135.600	3080.32	17.47	27.33	2.36	639589.01	427466.90	32°10'27.908"N	103°52'55.864"W	0.65	
3271.00	2.300	148.200	3270.25	12.94	23.50	4.95	639591.60	427463.07	32°10'27.870"N	103°52'55.834"W	0.96	
3460.00	3.900	155.400	3458.97	3.25	14.43	9.62	639596.27	427454.00	32°10'27.780"N	103°52'55.780"W	0.87	
3650.00	0.900	222.900	3648.80	-2.83	7.46	11.30	639597.95	427447.03	32°10'27.711"N	103°52'55.761"W	1.92	
3840.00	0.800	253.900	3838.78	-2.22	6.00	9.01	639595.66	427445.57	32°10'27.697"N	103°52'55.788"W	0.24	
4029.00	1.000	247.200	4027.76	-0.94	5.00	6.22	639592.87	427444.57	32°10'27.687"N	103°52'55.820"W	0.12	
4219.00	1.000	250.400	4217.73	0.43	3.80	3.13	639589.78	427443.37	32°10'27.675"N	103°52'55.856"W	0.03	
4409.00	0.700	268.400	4407.71	1.96	3.21	0.41	639587.06	427442.78	32°10'27.670"N	103°52'55.888"W	0.21	
4599.00	0.600	266.200	4597.70	3.43	3.11	-1.74	639584.91	427442.68	32°10'27.669"N	103°52'55.913"W	0.05	
4883.00	0.700	275.400	4881.68	5.76	3.18	-4.96	639581.69	427442.75	32°10'27.670"N	103°52'55.950"W	0.05	
5168.00	0.700	295.300	5166.66	8.76	4.08	-8.26	639578.39	427443.65	32°10'27.679"N	103°52'55.989"W	0.08	



Actual Wellpath Report

No. 364H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 364H SHL
Area	Eddy County, NM	Well	No. 364H
Field	Poker Lake Unit	Wellbore	No. 364H AWB
Facility	Poker Lake Unit No. 364H		

WELLPATH DATA (140 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
5453.00	1.100	299.500	5451.62	13.04	6.18	-12.22	639574.43	427445.75	32°10'27.700"N	103°52'56.035"W	0.14	
5738.00	0.800	316.600	5736.58	17.68	8.97	-15.97	639570.69	427448.54	32°10'27.727"N	103°52'56.078"W	0.14	
6022.00	0.500	319.500	6020.57	20.89	11.35	-18.13	639568.52	427450.92	32°10'27.751"N	103°52'56.103"W	0.11	
6306.00	0.400	331.900	6304.56	23.07	13.17	-19.40	639567.25	427452.74	32°10'27.769"N	103°52'56.118"W	0.05	
6590.00	0.700	299.900	6588.54	25.70	14.91	-21.38	639565.28	427454.48	32°10'27.786"N	103°52'56.141"W	0.15	
6719.00	0.600	301.700	6717.54	27.12	15.66	-22.63	639564.02	427455.22	32°10'27.794"N	103°52'56.155"W	0.08	
6760.00	0.700	296.900	6758.53	27.57	15.88	-23.04	639563.61	427455.45	32°10'27.796"N	103°52'56.160"W	0.28	
6792.00	1.400	304.800	6790.53	28.14	16.19	-23.53	639563.12	427455.76	32°10'27.799"N	103°52'56.166"W	2.23	
6823.00	3.700	303.400	6821.49	29.49	16.96	-24.68	639561.97	427456.53	32°10'27.807"N	103°52'56.179"W	7.42	
6855.00	6.000	300.800	6853.38	32.13	18.38	-26.98	639559.67	427457.95	32°10'27.821"N	103°52'56.206"W	7.22	
6887.00	8.700	303.500	6885.11	36.13	20.58	-30.43	639556.22	427460.15	32°10'27.843"N	103°52'56.246"W	8.50	
6918.00	11.500	306.300	6915.63	41.49	23.70	-34.88	639551.77	427463.27	32°10'27.874"N	103°52'56.297"W	9.17	
6950.00	14.200	307.000	6946.82	48.54	27.95	-40.59	639546.07	427467.52	32°10'27.916"N	103°52'56.364"W	8.45	
6982.00	17.000	308.900	6977.64	57.09	33.25	-47.36	639539.29	427472.82	32°10'27.969"N	103°52'56.442"W	8.89	
7013.00	20.300	311.400	7007.01	66.98	39.66	-54.93	639531.73	427479.22	32°10'28.033"N	103°52'56.530"W	10.95	
7045.00	23.900	311.400	7036.66	79.00	47.62	-63.96	639522.70	427487.18	32°10'28.112"N	103°52'56.634"W	11.25	
7076.00	27.600	310.700	7064.57	92.44	56.46	-74.11	639512.54	427496.02	32°10'28.200"N	103°52'56.752"W	11.98	
7108.00	30.800	310.900	7092.50	108.01	66.66	-85.93	639500.73	427506.22	32°10'28.301"N	103°52'56.889"W	10.00	
7140.00	33.200	312.400	7119.64	124.95	77.93	-98.59	639488.06	427517.49	32°10'28.413"N	103°52'57.036"W	7.90	
7172.00	35.300	313.400	7146.09	142.95	90.19	-111.78	639474.87	427529.76	32°10'28.535"N	103°52'57.189"W	6.79	
7203.00	37.900	313.800	7170.97	161.43	102.94	-125.17	639461.49	427542.50	32°10'28.662"N	103°52'57.344"W	8.42	
7234.00	40.300	314.800	7195.03	180.98	116.59	-139.15	639447.51	427556.16	32°10'28.798"N	103°52'57.506"W	8.00	
7266.00	44.600	314.700	7218.64	202.57	131.80	-154.49	639432.17	427571.36	32°10'28.949"N	103°52'57.684"W	13.44	
7298.00	48.300	314.400	7240.68	225.76	148.06	-171.02	639415.65	427587.62	32°10'29.110"N	103°52'57.875"W	11.58	
7330.00	51.800	314.200	7261.22	250.29	165.19	-188.57	639398.09	427604.75	32°10'29.281"N	103°52'58.078"W	10.95	
7361.00	55.000	315.700	7279.71	275.17	182.78	-206.18	639380.49	427622.33	32°10'29.455"N	103°52'58.282"W	11.03	
7392.00	57.600	315.500	7296.90	300.95	201.20	-224.22	639362.45	427640.76	32°10'29.638"N	103°52'58.491"W	8.40	
7424.00	59.700	316.100	7313.55	328.27	220.79	-243.27	639343.40	427660.35	32°10'29.833"N	103°52'58.712"W	6.75	
7456.00	62.800	315.600	7328.94	356.32	240.92	-262.81	639323.86	427680.47	32°10'30.033"N	103°52'58.938"W	9.78	
7487.00	65.500	316.800	7342.46	384.20	261.05	-282.11	639304.56	427700.61	32°10'30.233"N	103°52'59.162"W	9.38	
7519.00	67.000	316.800	7355.34	413.46	282.41	-302.16	639284.51	427721.96	32°10'30.445"N	103°52'59.394"W	4.69	
7550.00	67.800	317.200	7367.26	442.05	303.34	-321.68	639264.99	427742.89	32°10'30.653"N	103°52'59.620"W	2.84	
7582.00	67.700	316.600	7379.37	471.64	324.96	-341.92	639244.76	427764.51	32°10'30.868"N	103°52'59.855"W	1.76	
7613.00	67.700	315.700	7391.14	500.31	345.65	-361.79	639224.89	427785.19	32°10'31.073"N	103°53'00.085"W	2.69	
7645.00	68.300	316.300	7403.13	529.97	366.99	-382.40	639204.28	427806.53	32°10'31.285"N	103°53'00.324"W	2.56	
7672.00	68.900	315.300	7412.98	555.10	385.01	-399.92	639186.75	427824.55	32°10'31.464"N	103°53'00.527"W	4.10	
7770.00	68.700	315.800	7448.42	646.46	450.23	-463.91	639122.78	427889.77	32°10'32.113"N	103°53'01.268"W	0.52	
7802.00	70.000	314.900	7459.70	676.40	471.53	-484.95	639101.73	427911.07	32°10'32.324"N	103°53'01.512"W	4.84	
7833.00	72.800	315.100	7469.59	705.77	492.31	-505.72	639080.96	427931.84	32°10'32.531"N	103°53'01.752"W	9.05	
7849.00	73.900	315.200	7474.17	721.10	503.18	-516.54	639070.15	427942.71	32°10'32.639"N	103°53'01.878"W	6.90	
7880.00	74.700	315.000	7482.56	750.94	524.31	-537.60	639049.09	427963.85	32°10'32.849"N	103°53'02.122"W	2.65	
7912.00	75.300	315.000	7490.84	781.85	546.17	-559.46	639027.23	427985.70	32°10'33.066"N	103°53'02.375"W	1.87	
7944.00	75.700	315.100	7498.86	812.83	568.10	-581.34	639005.35	428007.63	32°10'33.284"N	103°53'02.628"W	1.29	
7975.00	76.500	314.700	7506.30	842.92	589.34	-602.66	638984.03	428028.87	32°10'33.495"N	103°53'02.875"W	2.87	
8007.00	78.100	313.700	7513.34	874.14	611.10	-625.04	638961.65	428050.63	32°10'33.711"N	103°53'03.135"W	5.86	



Actual Wellpath Report

No. 364H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 364H SHL
Area	Eddy County, NM	Well	No. 364H
Field	Poker Lake Unit	Wellbore	No. 364H AWB
Facility	Poker Lake Unit No. 364H		

WELLPATH DATA (140 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
8038.00	79.700	313.500	7519.31	904.55	632.08	-647.07	638939.63	428071.60	32°10'33.920"N	103°53'03.390"W	5.20	
8070.00	81.400	312.700	7524.56	936.11	653.64	-670.12	638916.58	428093.17	32°10'34.134"N	103°53'03.657"W	5.86	
8102.00	83.100	312.100	7528.87	967.79	675.02	-693.53	638893.17	428114.55	32°10'34.346"N	103°53'03.928"W	5.63	
8133.00	84.900	311.300	7532.11	998.58	695.53	-716.55	638870.15	428135.05	32°10'34.550"N	103°53'04.195"W	6.35	
8228.00	89.000	309.300	7537.17	1093.17	756.87	-788.88	638797.82	428196.39	32°10'35.160"N	103°53'05.034"W	4.80	
8323.00	91.100	307.700	7537.09	1187.65	816.00	-863.22	638723.49	428255.52	32°10'35.748"N	103°53'05.896"W	2.78	
8418.00	92.300	309.200	7534.27	1282.07	875.05	-937.59	638649.13	428314.56	32°10'36.336"N	103°53'06.758"W	2.02	
8513.00	90.200	308.600	7532.20	1376.59	934.69	-1011.50	638575.22	428374.19	32°10'36.929"N	103°53'07.615"W	2.30	
8607.00	90.700	307.500	7531.46	1470.00	992.62	-1085.52	638501.21	428432.12	32°10'37.505"N	103°53'08.474"W	1.29	
8703.00	90.900	312.000	7530.12	1565.64	1053.99	-1159.30	638427.43	428493.48	32°10'38.116"N	103°53'09.329"W	4.69	
8799.00	91.000	315.700	7528.52	1661.60	1120.47	-1228.51	638358.23	428559.96	32°10'38.776"N	103°53'10.131"W	3.86	
8894.00	90.700	315.500	7527.11	1756.57	1188.34	-1294.97	638291.77	428627.82	32°10'39.451"N	103°53'10.901"W	0.38	
8989.00	91.900	317.500	7524.96	1851.48	1257.23	-1360.34	638226.40	428696.71	32°10'40.135"N	103°53'11.658"W	2.45	
9084.00	93.200	322.200	7520.73	1945.94	1329.74	-1421.52	638165.23	428769.22	32°10'40.855"N	103°53'12.366"W	5.13	
9179.00	91.200	322.900	7517.08	2039.93	1405.10	-1479.24	638107.52	428844.58	32°10'41.603"N	103°53'13.034"W	2.23	
9274.00	91.600	326.500	7514.76	2133.38	1482.60	-1534.11	638052.65	428922.07	32°10'42.372"N	103°53'13.669"W	3.81	
9369.00	90.700	327.500	7512.85	2226.10	1562.26	-1585.84	638000.92	429001.72	32°10'43.163"N	103°53'14.267"W	1.42	
9464.00	91.500	328.000	7511.03	2318.55	1642.59	-1636.52	637950.24	429082.04	32°10'43.960"N	103°53'14.853"W	0.99	
9559.00	90.700	326.100	7509.21	2411.25	1722.29	-1688.18	637898.59	429161.73	32°10'44.750"N	103°53'15.450"W	2.17	
9654.00	89.500	321.300	7509.04	2504.99	1798.82	-1744.41	637842.37	429238.27	32°10'45.510"N	103°53'16.100"W	5.21	
9749.00	90.200	319.500	7509.29	2599.48	1872.02	-1804.96	637781.82	429311.46	32°10'46.237"N	103°53'16.801"W	2.03	
9844.00	90.300	317.500	7508.88	2694.24	1943.17	-1867.90	637718.88	429382.60	32°10'46.944"N	103°53'17.530"W	2.11	
9939.00	91.100	318.600	7507.71	2789.05	2013.81	-1931.40	637655.38	429453.24	32°10'47.645"N	103°53'18.266"W	1.43	
10034.00	90.600	316.400	7506.31	2883.90	2083.84	-1995.57	637591.22	429523.27	32°10'48.341"N	103°53'19.009"W	2.37	
10129.00	90.200	314.000	7505.64	2978.88	2151.24	-2062.51	637524.29	429590.66	32°10'49.011"N	103°53'19.784"W	2.56	
10224.00	90.200	311.200	7505.31	3073.82	2215.54	-2132.43	637454.37	429654.95	32°10'49.650"N	103°53'20.595"W	2.95	
10320.00	90.200	309.500	7504.98	3169.57	2277.69	-2205.59	637381.22	429717.10	32°10'50.268"N	103°53'21.443"W	1.77	
10414.00	91.900	311.200	7503.25	3263.30	2338.54	-2277.21	637309.60	429777.94	32°10'50.873"N	103°53'22.273"W	2.56	
10510.00	91.500	311.900	7500.40	3359.13	2402.19	-2349.02	637237.80	429841.59	32°10'51.505"N	103°53'23.106"W	0.84	
10605.00	90.000	311.400	7499.16	3454.01	2465.31	-2420.00	637166.82	429904.71	32°10'52.133"N	103°53'23.929"W	1.66	
10700.00	90.200	310.700	7499.00	3548.84	2527.70	-2491.64	637095.19	429967.09	32°10'52.753"N	103°53'24.759"W	0.77	
10795.00	90.100	309.800	7498.75	3643.57	2589.08	-2564.15	637022.69	430028.47	32°10'53.364"N	103°53'25.600"W	0.95	
10890.00	91.400	311.000	7497.50	3738.32	2650.65	-2636.48	636950.35	430090.03	32°10'53.976"N	103°53'26.439"W	1.86	
10985.00	92.800	314.600	7494.02	3833.20	2715.14	-2706.13	636880.71	430154.51	32°10'54.617"N	103°53'27.246"W	4.06	
11080.00	92.700	316.800	7489.46	3928.06	2783.04	-2772.40	636814.45	430222.42	32°10'55.291"N	103°53'28.014"W	2.32	
11174.00	91.900	317.300	7485.69	4021.89	2851.79	-2836.39	636750.46	430291.16	32°10'55.974"N	103°53'28.755"W	1.00	
11269.00	91.000	317.400	7483.29	4116.74	2921.64	-2900.73	636686.12	430361.00	32°10'56.668"N	103°53'29.500"W	0.95	
11364.00	89.400	318.500	7482.95	4211.56	2992.18	-2964.36	636622.50	430431.54	32°10'57.369"N	103°53'30.237"W	2.04	
11459.00	87.500	319.200	7485.52	4306.25	3063.68	-3026.85	636560.02	430503.04	32°10'58.079"N	103°53'30.961"W	2.13	
11554.00	85.800	318.400	7491.08	4400.81	3135.04	-3089.31	636497.56	430574.39	32°10'58.787"N	103°53'31.684"W	1.98	
11649.00	84.200	317.600	7499.36	4495.27	3205.37	-3152.64	636434.24	430644.71	32°10'59.486"N	103°53'32.418"W	1.88	
11744.00	83.300	317.000	7509.70	4589.59	3274.77	-3216.68	636370.20	430714.11	32°11'00.175"N	103°53'33.159"W	1.14	
11839.00	84.000	316.000	7520.20	4683.94	3343.25	-3281.67	636305.21	430782.59	32°11'00.856"N	103°53'33.912"W	1.28	
11935.00	85.100	314.300	7529.32	4779.50	3411.00	-3349.06	636237.82	430850.33	32°11'01.529"N	103°53'34.693"W	2.10	
12030.00	85.100	311.400	7537.44	4874.10	3475.37	-3418.45	636168.44	430914.69	32°11'02.168"N	103°53'35.498"W	3.04	



Actual Wellpath Report

No. 364H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 364H SHL
Area	Eddy County, NM	Well	No. 364H
Field	Poker Lake Unit	Wellbore	No. 364H AWB
Facility	Poker Lake Unit No. 364H		

WELLPATH DATA (140 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
12125.00	85.900	309.600	7544.89	4968.58	3536.87	-3490.46	636096.43	430976.19	32°11'02.780"N	103°53'36.332"W	2.07	
12220.00	86.300	310.300	7551.36	5063.06	3597.73	-3563.12	636023.78	431037.05	32°11'03.385"N	103°53'37.175"W	0.85	
12315.00	87.400	310.800	7556.58	5157.69	3659.40	-3635.19	635951.71	431098.71	32°11'03.998"N	103°53'38.011"W	1.27	
12410.00	89.200	312.900	7559.39	5252.54	3722.74	-3705.92	635880.99	431162.05	32°11'04.628"N	103°53'38.831"W	2.91	
12508.00	90.000	312.900	7560.08	5350.50	3789.45	-3777.71	635809.21	431228.76	32°11'05.291"N	103°53'39.663"W	0.82	Proj to Bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Poker Lake Unit No. 364H PBHL (Rev-4)		7505.00	4003.37	-4076.22	635510.71	431442.66	32°11'07.420"N	103°53'43.126"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 364H AWB Ref Wellpath: No. 364H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	945.00	Generic gyro - northseeking (Standard)	Unknown Gyros <100-945>	No. 364H AWB
945.00	12410.00	NaviTrak (Standard)	BHI / Navitrak MWD <994-xxxx>	No. 364H AWB
12410.00	12508.00	Blind Drilling (std)	Projection to bit	No. 364H AWB



BOPCO, L.P.

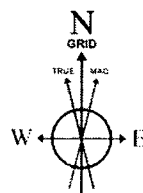
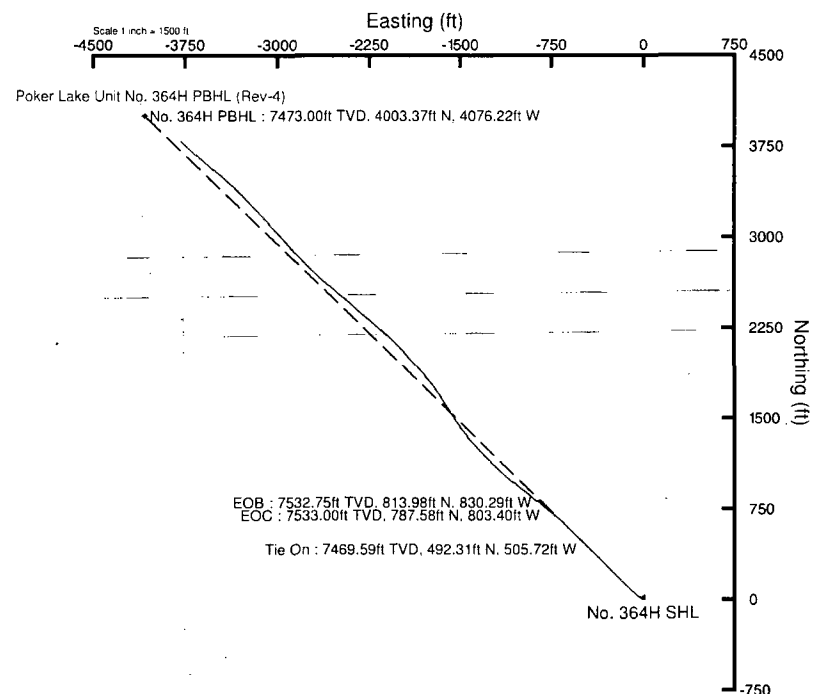
Location: Eddy County, NM
Field: Poker Lake Unit
Facility: Poker Lake Unit No. 364H

Slot: No. 364H SHL
Well: No. 364H
Wellbore: No. 364H PWB



Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	7833.00	72.800	315.100	7469.59	492.31	-505.72	705.77
EOC	8258.65	90.000	314.450	7533.00	787.58	-803.40	1125.05
EOB	8296.34	90.752	314.497	7532.75	813.98	-830.29	1162.74
No. 364H PBHL	12847.36	90.752	314.497	7473.00	4003.37	-4076.22	5713.37

Plot reference wellpath is Rev-K.0	
True vertical depths are referenced to Rig on No. 364H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 364H SHL (KB)	North Reference: Grid north
Rig on No. 364H SHL (KB) to Mean Sea Level: 3324 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No. 364H SHL): -3302 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: glibcat on 04-Apr-2013



BGGM (1945.0 to 2014.0) Dip: 60.00° Field: 48374.7 nT
Magnetic North is 7.64 degrees East of True North (at 11/Jan/2013)
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 7.40 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.40 = 97.40

