



Actual Wellpath Report

No.441H AWP

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30 015 41281



REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 441H SHL
Area	Eddy County, NM	Well	No. 441H
Field	Poker Lake Unit	Wellbore	No.441H AWB
Facility	Poker Lake Unit No. 440H and No. 441H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	Gentbry
Scale	0.999928	Report Generated	12/13/2013 at 10:38:11 AM
Convergence at slot	0.22° East	Database/Source file	MidlandDB/No.441H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-28.23	28.37	627994.94	441700.32	32°12'49.226"N	103°55'10.122"W
Facility Reference Pt			627966.57	441728.55	32°12'49.506"N	103°55'10.451"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. 441H SHL (KB) to Facility Vertical Datum	3181.00ft
Horizontal Reference Pt	Slot	Rig on No. 441H SHL (KB) to Mean Sea Level	3181.00ft
Vertical Reference Pt	Rig on No. 441H SHL (KB)	Rig on No. 441H SHL (KB) to Mud Line at Slot (No. 441H SHL)	3181.00ft
MD Reference Pt	Rig on No. 441H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.87°



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Area	Eddy County, NM	Well	No. 441H
Field	Poker Lake Unit	Wellbore	No.441H AWB
Facility	Poker Lake Unit No. 440H and No. 441H		

WELLPATH DATA (187 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	86.320	0.00	0.00	0.00	0.00	627994.94	441700.32	32°12'49.226"N	103°55'10.122"W	0.00	
100.00	0.390	86.320	100.00	0.02	0.02	0.34	627995.28	441700.34	32°12'49.226"N	103°55'10.118"W	0.39	
200.00	0.900	80.720	199.99	0.17	0.17	1.45	627996.39	441700.49	32°12'49.228"N	103°55'10.105"W	0.51	
300.00	0.830	84.040	299.98	0.37	0.37	2.95	627997.89	441700.69	32°12'49.229"N	103°55'10.088"W	0.09	
400.00	1.010	85.980	399.97	0.50	0.51	4.55	627999.49	441700.83	32°12'49.231"N	103°55'10.069"W	0.18	
500.00	1.520	71.270	499.94	0.98	1.00	6.68	628001.62	441701.32	32°12'49.235"N	103°55'10.044"W	0.60	
527.00	1.720	66.760	526.93	1.25	1.27	7.40	628002.34	441701.59	32°12'49.238"N	103°55'10.036"W	0.88	
619.00	1.300	82.400	618.90	1.93	1.95	9.70	628004.64	441702.27	32°12'49.245"N	103°55'10.009"W	0.64	
714.00	1.300	82.500	713.88	2.21	2.24	11.84	628006.77	441702.56	32°12'49.248"N	103°55'09.984"W	0.00	
809.00	1.300	84.300	808.85	2.45	2.49	13.98	628008.92	441702.81	32°12'49.250"N	103°55'09.959"W	0.04	
887.00	1.100	90.700	886.84	2.53	2.56	15.61	628010.54	441702.88	32°12'49.251"N	103°55'09.940"W	0.31	
981.00	1.300	87.600	980.81	2.56	2.60	17.57	628012.51	441702.92	32°12'49.251"N	103°55'09.917"W	0.22	
1076.00	1.100	91.900	1075.79	2.57	2.61	19.56	628014.50	441702.93	32°12'49.251"N	103°55'09.894"W	0.23	
1171.00	1.100	84.900	1170.78	2.61	2.66	21.38	628016.32	441702.98	32°12'49.251"N	103°55'09.873"W	0.14	
1266.00	1.100	83.300	1265.76	2.80	2.85	23.19	628018.13	441703.17	32°12'49.253"N	103°55'09.852"W	0.03	
1361.00	1.000	87.500	1360.74	2.94	2.99	24.93	628019.87	441703.31	32°12'49.255"N	103°55'09.832"W	0.13	
1456.00	1.000	83.300	1455.73	3.06	3.13	26.58	628021.52	441703.45	32°12'49.256"N	103°55'09.812"W	0.08	
1551.00	0.800	97.700	1550.72	3.07	3.13	28.06	628023.00	441703.45	32°12'49.256"N	103°55'09.795"W	0.32	
1645.00	0.800	86.000	1644.71	3.02	3.09	29.37	628024.30	441703.41	32°12'49.255"N	103°55'09.780"W	0.17	
1740.00	0.600	83.500	1739.70	3.12	3.19	30.52	628025.46	441703.51	32°12'49.256"N	103°55'09.767"W	0.21	
1834.00	0.700	101.600	1833.69	3.06	3.13	31.57	628026.51	441703.45	32°12'49.256"N	103°55'09.754"W	0.24	
1929.00	0.600	94.500	1928.69	2.90	2.98	32.64	628027.57	441703.30	32°12'49.254"N	103°55'09.742"W	0.13	
2024.00	0.400	85.500	2023.68	2.89	2.97	33.46	628028.40	441703.29	32°12'49.254"N	103°55'09.732"W	0.23	
2119.00	0.400	110.500	2118.68	2.80	2.88	34.11	628029.04	441703.20	32°12'49.253"N	103°55'09.725"W	0.18	
2214.00	0.500	145.300	2213.68	2.34	2.42	34.65	628029.59	441702.74	32°12'49.248"N	103°55'09.718"W	0.30	
2308.00	0.400	154.600	2307.68	1.70	1.79	35.03	628029.96	441702.11	32°12'49.242"N	103°55'09.714"W	0.13	
2404.00	0.400	176.400	2403.67	1.07	1.15	35.19	628030.13	441701.47	32°12'49.236"N	103°55'09.712"W	0.16	
2498.00	0.400	107.700	2497.67	0.64	0.72	35.52	628030.46	441701.04	32°12'49.232"N	103°55'09.708"W	0.48	
2593.00	0.200	124.100	2592.67	0.44	0.53	35.98	628030.91	441700.85	32°12'49.230"N	103°55'09.703"W	0.23	
2688.00	0.500	115.100	2687.67	0.17	0.26	36.49	628031.43	441700.58	32°12'49.227"N	103°55'09.697"W	0.32	
2783.00	1.300	124.600	2782.66	-0.62	-0.53	37.75	628032.69	441699.79	32°12'49.219"N	103°55'09.683"W	0.85	
2878.00	1.800	127.000	2877.62	-2.13	-2.04	39.83	628034.77	441698.28	32°12'49.204"N	103°55'09.658"W	0.53	
2973.00	2.100	132.000	2972.57	-4.20	-4.10	42.32	628037.25	441696.22	32°12'49.184"N	103°55'09.630"W	0.36	
3067.00	3.100	136.900	3066.47	-7.22	-7.11	45.33	628040.27	441693.21	32°12'49.154"N	103°55'09.595"W	1.09	
3162.00	3.800	144.500	3161.30	-11.66	-11.55	48.92	628043.85	441688.77	32°12'49.110"N	103°55'09.553"W	0.88	
3257.00	3.500	130.900	3256.11	-16.13	-16.01	52.94	628047.87	441684.31	32°12'49.065"N	103°55'09.507"W	0.96	
3353.00	3.300	125.500	3351.94	-19.67	-19.53	57.40	628052.34	441680.79	32°12'49.030"N	103°55'09.455"W	0.39	
3544.00	3.500	116.800	3542.60	-25.51	-25.35	67.08	628062.01	441674.97	32°12'48.972"N	103°55'09.342"W	0.29	
3639.00	4.200	108.300	3637.39	-27.92	-27.75	72.97	628067.91	441672.57	32°12'48.948"N	103°55'09.274"W	0.95	
3734.00	4.200	93.100	3732.14	-29.22	-29.03	79.75	628074.68	441671.29	32°12'48.936"N	103°55'09.195"W	1.17	
3828.00	4.400	94.900	3825.87	-29.73	-29.53	86.78	628081.71	441670.79	32°12'48.930"N	103°55'09.113"W	0.26	
3923.00	4.100	97.500	3920.61	-30.50	-30.28	93.78	628088.71	441670.04	32°12'48.923"N	103°55'09.032"W	0.38	
4018.00	4.900	85.900	4015.32	-30.67	-30.44	101.19	628096.12	441669.89	32°12'48.921"N	103°55'08.946"W	1.27	
4113.00	4.900	84.600	4109.97	-30.02	-29.76	109.28	628104.21	441670.56	32°12'48.927"N	103°55'08.851"W	0.12	
4208.00	4.800	85.900	4204.63	-29.37	-29.10	117.28	628112.21	441671.22	32°12'48.933"N	103°55'08.758"W	0.16	



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Area	Eddy County, NM	Well	No. 441H
Field	Poker Lake Unit	Wellbore	No.441H AWB
Facility	Poker Lake Unit No. 440H and No. 441H		

WELLPATH DATA (187 stations)

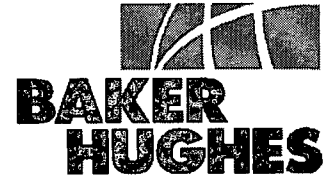
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4302.00	5.000	86.000	4298.29	-28.82	-28.53	125.29	628120.22	441671.79	32°12'48.939"N	103°55'08.665"W	0.21	
4397.00	4.600	88.100	4392.95	-28.43	-28.12	133.23	628128.16	441672.21	32°12'48.943"N	103°55'08.573"W	0.46	
4491.00	4.600	88.500	4486.65	-28.22	-27.89	140.76	628135.69	441672.43	32°12'48.945"N	103°55'08.485"W	0.03	
4585.00	4.300	88.600	4580.37	-28.05	-27.71	148.05	628142.98	441672.61	32°12'48.946"N	103°55'08.400"W	0.32	
4681.00	4.800	80.300	4676.07	-27.31	-26.94	155.61	628150.54	441673.38	32°12'48.953"N	103°55'08.312"W	0.86	
4775.00	4.700	82.100	4769.74	-26.13	-25.75	163.30	628158.23	441674.57	32°12'48.965"N	103°55'08.222"W	0.19	
4871.00	4.800	84.900	4865.41	-25.25	-24.85	171.20	628166.12	441675.47	32°12'48.973"N	103°55'08.130"W	0.26	
4965.00	4.600	83.700	4959.10	-24.51	-24.09	178.86	628173.79	441676.23	32°12'48.981"N	103°55'08.041"W	0.24	
5060.00	4.200	85.800	5053.82	-23.85	-23.42	186.12	628181.04	441676.90	32°12'48.987"N	103°55'07.957"W	0.45	
5155.00	4.400	88.300	5148.55	-23.51	-23.05	193.23	628188.15	441677.27	32°12'48.990"N	103°55'07.874"W	0.29	
5250.00	4.500	88.900	5243.26	-23.34	-22.88	200.60	628195.52	441677.45	32°12'48.992"N	103°55'07.788"W	0.12	
5344.00	4.400	88.800	5336.98	-23.21	-22.73	207.89	628202.81	441677.59	32°12'48.993"N	103°55'07.703"W	0.11	
5439.00	4.100	92.200	5431.72	-23.28	-22.78	214.93	628209.85	441677.54	32°12'48.992"N	103°55'07.621"W	0.41	
5533.00	3.900	93.200	5525.49	-23.61	-23.09	221.48	628216.40	441677.23	32°12'48.989"N	103°55'07.545"W	0.23	
5628.00	3.600	78.400	5620.29	-23.20	-22.67	227.62	628222.55	441677.65	32°12'48.993"N	103°55'07.474"W	1.06	
5723.00	3.100	75.900	5715.13	-21.99	-21.45	233.04	628227.96	441678.88	32°12'49.005"N	103°55'07.411"W	0.55	
5818.00	2.500	78.900	5810.01	-20.98	-20.42	237.56	628232.48	441679.90	32°12'49.015"N	103°55'07.358"W	0.65	
5912.00	2.200	91.300	5903.93	-20.63	-20.07	241.38	628236.30	441680.25	32°12'49.018"N	103°55'07.313"W	0.63	
6008.00	1.000	103.000	5999.89	-20.87	-20.30	244.04	628238.96	441680.02	32°12'49.016"N	103°55'07.282"W	1.29	
6102.00	1.200	90.100	6093.88	-21.06	-20.48	245.82	628240.74	441679.84	32°12'49.014"N	103°55'07.262"W	0.34	
6197.00	1.400	97.900	6188.85	-21.22	-20.64	247.96	628242.88	441679.68	32°12'49.012"N	103°55'07.237"W	0.28	
6292.00	0.300	187.500	6283.84	-21.63	-21.05	249.08	628244.00	441679.27	32°12'49.008"N	103°55'07.224"W	1.50	
6387.00	0.200	210.400	6378.84	-22.02	-21.44	248.96	628243.89	441678.88	32°12'49.004"N	103°55'07.225"W	0.15	
6482.00	0.300	194.700	6473.84	-22.41	-21.82	248.82	628243.74	441678.50	32°12'49.000"N	103°55'07.227"W	0.13	
6577.00	0.600	183.800	6568.84	-23.14	-22.56	248.72	628243.64	441677.76	32°12'48.993"N	103°55'07.228"W	0.33	
6672.00	0.400	180.700	6663.83	-23.97	-23.39	248.68	628243.61	441676.93	32°12'48.985"N	103°55'07.229"W	0.21	
6863.00	0.400	194.200	6854.83	-25.28	-24.70	248.51	628243.43	441675.62	32°12'48.972"N	103°55'07.231"W	0.05	
7053.00	0.800	179.200	7044.82	-27.25	-26.67	248.37	628243.29	441673.65	32°12'48.952"N	103°55'07.232"W	0.22	
7244.00	0.400	198.300	7235.81	-29.22	-28.64	248.18	628243.10	441671.68	32°12'48.933"N	103°55'07.235"W	0.23	
7433.00	0.900	245.500	7424.80	-30.46	-29.88	246.62	628241.54	441670.44	32°12'48.921"N	103°55'07.253"W	0.37	
7623.00	1.100	295.900	7614.77	-30.27	-29.70	243.62	628238.54	441670.62	32°12'48.923"N	103°55'07.288"W	0.46	
7813.00	1.300	166.500	7804.75	-31.57	-31.00	242.48	628237.41	441669.32	32°12'48.910"N	103°55'07.301"W	1.14	
8002.00	0.400	325.500	7993.74	-33.11	-32.54	242.61	628237.53	441667.78	32°12'48.895"N	103°55'07.300"W	0.89	
8192.00	0.700	187.200	8183.73	-33.71	-33.15	242.09	628237.01	441667.18	32°12'48.889"N	103°55'07.306"W	0.54	
8382.00	1.300	195.200	8373.71	-36.94	-36.38	241.38	628236.30	441663.94	32°12'48.857"N	103°55'07.314"W	0.32	
8572.00	0.400	177.800	8563.68	-39.68	-39.12	240.84	628235.76	441661.20	32°12'48.830"N	103°55'07.321"W	0.49	
8762.00	2.200	177.800	8753.63	-43.99	-43.43	241.00	628235.93	441656.90	32°12'48.787"N	103°55'07.319"W	0.95	
8951.00	0.900	151.400	8942.55	-48.92	-48.36	241.85	628236.78	441651.97	32°12'48.738"N	103°55'07.309"W	0.77	
9139.00	0.300	205.100	9130.54	-50.66	-50.10	242.35	628237.27	441650.23	32°12'48.721"N	103°55'07.303"W	0.41	
9248.00	1.600	191.300	9239.53	-52.41	-51.85	241.93	628236.85	441648.47	32°12'48.704"N	103°55'07.308"W	1.20	
9279.00	1.500	346.300	9270.52	-52.44	-51.88	241.75	628236.67	441648.44	32°12'48.703"N	103°55'07.310"W	9.76	
9311.00	5.800	357.400	9302.45	-50.42	-49.86	241.58	628236.50	441650.47	32°12'48.723"N	103°55'07.312"W	13.56	
9342.00	9.700	4.900	9333.16	-46.25	-45.69	241.73	628236.65	441654.64	32°12'48.765"N	103°55'07.310"W	12.97	
9374.00	12.600	4.400	9364.56	-40.09	-39.52	242.23	628237.15	441660.80	32°12'48.826"N	103°55'07.304"W	9.07	
9406.00	15.600	3.300	9395.59	-32.31	-31.74	242.75	628237.67	441668.58	32°12'48.903"N	103°55'07.298"W	9.41	



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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 441H SHL
Area	Eddy County, NM	Well	No. 441H
Field	Poker Lake Unit	Wellbore	No.441H AWP
Facility	Poker Lake Unit No. 440H and No. 441H		

WELLPATH DATA (187 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
9437.00	18.200	3.200	9425.25	-23.31	-22.75	243.26	628238.18	441677.57	32°12'48.992"N	103°55'07.292"W	8.39	
9469.00	21.300	2.300	9455.36	-12.52	-11.95	243.77	628238.69	441688.37	32°12'49.098"N	103°55'07.285"W	9.73	
9501.00	23.700	1.400	9484.92	-0.28	0.29	244.16	628239.08	441700.61	32°12'49.219"N	103°55'07.280"W	7.58	
9532.00	26.300	0.800	9513.02	12.82	13.39	244.41	628239.33	441713.71	32°12'49.349"N	103°55'07.277"W	8.43	
9564.00	29.300	1.600	9541.32	27.74	28.31	244.72	628239.65	441728.63	32°12'49.497"N	103°55'07.272"W	9.45	
9595.00	31.200	359.600	9568.10	43.35	43.92	244.88	628239.80	441744.24	32°12'49.651"N	103°55'07.270"W	6.94	
9627.00	33.500	358.400	9595.13	60.47	61.04	244.58	628239.50	441761.36	32°12'49.821"N	103°55'07.273"W	7.46	
9659.00	36.300	357.100	9621.37	78.76	79.33	243.85	628238.77	441779.65	32°12'50.002"N	103°55'07.280"W	9.05	
9690.00	39.500	357.200	9645.83	97.78	98.35	242.90	628237.83	441798.66	32°12'50.190"N	103°55'07.290"W	10.32	
9722.00	42.500	357.300	9669.98	118.75	119.32	241.90	628236.82	441819.63	32°12'50.397"N	103°55'07.301"W	9.38	
9753.00	45.500	357.600	9692.28	140.26	140.83	240.94	628235.86	441841.14	32°12'50.610"N	103°55'07.311"W	9.70	
9785.00	49.200	358.700	9713.95	163.78	164.35	240.19	628235.11	441864.65	32°12'50.843"N	103°55'07.319"W	11.84	
9817.00	52.500	358.800	9734.15	188.59	189.15	239.65	628234.57	441889.46	32°12'51.088"N	103°55'07.324"W	10.32	
9848.00	55.200	358.200	9752.44	213.61	214.17	238.99	628233.91	441914.48	32°12'51.336"N	103°55'07.331"W	8.85	
9880.00	57.800	357.600	9770.10	240.28	240.84	238.01	628232.93	441941.14	32°12'51.600"N	103°55'07.341"W	8.27	
9912.00	60.300	357.300	9786.56	267.70	268.25	236.79	628231.71	441968.55	32°12'51.871"N	103°55'07.354"W	7.85	
9943.00	63.200	356.700	9801.23	294.97	295.52	235.36	628230.28	441995.82	32°12'52.141"N	103°55'07.369"W	9.51	
9975.00	65.900	356.600	9814.98	323.81	324.36	233.67	628228.59	442024.66	32°12'52.427"N	103°55'07.388"W	8.44	
10007.00	68.200	357.400	9827.45	353.24	353.78	232.13	628227.05	442054.08	32°12'52.718"N	103°55'07.404"W	7.55	
10039.00	69.600	357.200	9838.97	383.07	383.61	230.72	628225.64	442083.90	32°12'53.013"N	103°55'07.419"W	4.41	
10070.00	72.200	356.000	9849.12	412.31	412.84	228.98	628223.90	442113.13	32°12'53.302"N	103°55'07.438"W	9.15	
10102.00	75.700	356.700	9857.96	443.00	443.53	227.03	628221.95	442143.82	32°12'53.606"N	103°55'07.460"W	11.14	
10133.00	78.100	356.900	9864.99	473.15	473.67	225.34	628220.26	442173.96	32°12'53.904"N	103°55'07.478"W	7.77	
10165.00	80.700	357.000	9870.87	504.56	505.08	223.67	628218.59	442205.36	32°12'54.215"N	103°55'07.496"W	8.13	
10197.00	83.100	357.200	9875.38	536.20	536.72	222.06	628216.99	442237.00	32°12'54.528"N	103°55'07.513"W	7.53	
10229.00	85.600	358.300	9878.53	568.02	568.53	220.82	628215.74	442268.81	32°12'54.843"N	103°55'07.526"W	8.53	
10262.00	87.000	358.500	9880.66	600.94	601.45	219.90	628214.82	442301.73	32°12'55.169"N	103°55'07.536"W	4.29	
10294.00	89.500	358.800	9881.64	632.91	633.43	219.14	628214.07	442333.70	32°12'55.486"N	103°55'07.543"W	7.87	
10357.00	89.500	358.200	9882.19	695.89	696.40	217.49	628212.42	442396.67	32°12'56.109"N	103°55'07.559"W	0.95	
10452.00	88.400	357.500	9883.93	790.81	791.32	213.93	628208.85	442491.58	32°12'57.048"N	103°55'07.596"W	1.37	
10547.00	89.200	357.700	9885.92	885.72	886.21	209.95	628204.88	442586.47	32°12'57.987"N	103°55'07.638"W	0.87	
10641.00	90.900	358.100	9885.84	979.66	980.15	206.51	628201.43	442680.39	32°12'58.917"N	103°55'07.674"W	1.86	
10736.00	91.000	357.400	9884.26	1074.58	1075.06	202.78	628197.70	442775.30	32°12'59.856"N	103°55'07.714"W	0.74	
10831.00	90.300	357.600	9883.18	1169.49	1169.96	198.64	628193.56	442870.19	32°13'00.796"N	103°55'07.757"W	0.77	
10925.00	90.300	356.300	9882.69	1263.37	1263.82	193.63	628188.56	442964.05	32°13'01.725"N	103°55'07.811"W	1.38	
11020.00	89.400	355.300	9882.94	1358.13	1358.57	186.68	628181.60	443058.79	32°13'02.662"N	103°55'07.888"W	1.42	
11114.00	90.700	355.800	9882.86	1451.86	1452.28	179.38	628174.31	443152.49	32°13'03.590"N	103°55'07.969"W	1.48	
11207.00	91.400	356.800	9881.15	1544.66	1545.07	173.38	628168.31	443245.28	32°13'04.508"N	103°55'08.035"W	1.31	
11302.00	91.400	358.300	9878.83	1639.55	1639.95	169.32	628164.25	443340.15	32°13'05.447"N	103°55'08.078"W	1.58	
11396.00	91.200	357.300	9876.70	1733.47	1733.86	165.72	628160.64	443434.05	32°13'06.377"N	103°55'08.115"W	1.08	
11490.00	91.700	357.700	9874.32	1827.35	1827.74	161.62	628156.55	443527.92	32°13'07.306"N	103°55'08.159"W	0.68	
11585.00	89.300	358.100	9873.49	1922.29	1922.66	158.14	628153.06	443622.84	32°13'08.245"N	103°55'08.195"W	2.56	
11679.00	89.500	358.000	9874.48	2016.24	2016.60	154.94	628149.87	443716.77	32°13'09.175"N	103°55'08.228"W	0.24	
11773.00	89.200	357.500	9875.54	2110.17	2110.52	151.25	628146.18	443810.69	32°13'10.105"N	103°55'08.267"W	0.62	
11868.00	89.800	357.900	9876.37	2205.09	2205.44	147.44	628142.36	443905.60	32°13'11.044"N	103°55'08.307"W	0.76	



Actual Wellpath Report

No.441H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 441H SHL
Area	Eddy County, NM	Well	No. 441H
Field	Poker Lake Unit	Wellbore	No.441H AWB
Facility	Poker Lake Unit No. 440H and No. 441H		

WELLPATH DATA (187 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
11963.00	90.000	357.400	9876.54	2300.02	2300.36	143.54	628138.47	444000.51	32°13'11.983"N	103°55'08.348"W	0.57	
12058.00	89.500	356.600	9876.95	2394.90	2395.23	138.57	628133.50	444095.37	32°13'12.922"N	103°55'08.402"W	0.99	
12152.00	89.900	357.700	9877.45	2488.79	2489.11	133.89	628128.82	444189.25	32°13'13.852"N	103°55'08.452"W	1.25	
12247.00	89.600	357.600	9877.86	2583.72	2584.03	130.00	628124.93	444284.16	32°13'14.791"N	103°55'08.493"W	0.33	
12342.00	90.000	356.800	9878.19	2678.62	2678.92	125.36	628120.29	444379.04	32°13'15.730"N	103°55'08.543"W	0.94	
12437.00	90.800	358.500	9877.53	2773.54	2773.83	121.46	628116.39	444473.94	32°13'16.669"N	103°55'08.584"W	1.98	
12533.00	91.700	359.100	9875.43	2869.50	2869.78	119.45	628114.38	444569.89	32°13'17.619"N	103°55'08.603"W	1.13	
12627.00	89.700	358.800	9874.29	2963.47	2963.76	117.73	628112.66	444663.86	32°13'18.549"N	103°55'08.619"W	2.15	
12722.00	89.500	357.700	9874.95	3058.43	3058.71	114.83	628109.76	444758.80	32°13'19.489"N	103°55'08.648"W	1.18	
12818.00	90.700	359.100	9874.78	3154.40	3154.67	112.15	628107.08	444854.75	32°13'20.438"N	103°55'08.675"W	1.92	
12913.00	89.800	359.100	9874.37	3249.39	3249.65	110.66	628105.59	444949.73	32°13'21.378"N	103°55'08.688"W	0.95	
13008.00	90.000	359.200	9874.53	3344.38	3344.64	109.25	628104.18	445044.71	32°13'22.318"N	103°55'08.700"W	0.24	
13103.00	88.600	357.400	9875.69	3439.33	3439.59	106.43	628101.36	445139.65	32°13'23.258"N	103°55'08.729"W	2.40	
13198.00	89.800	358.000	9877.02	3534.25	3534.50	102.62	628097.55	445234.56	32°13'24.197"N	103°55'08.769"W	1.41	
13293.00	90.600	358.200	9876.69	3629.20	3629.45	99.47	628094.40	445329.50	32°13'25.137"N	103°55'08.801"W	0.87	
13388.00	90.800	358.000	9875.53	3724.15	3724.39	96.32	628091.25	445424.43	32°13'26.076"N	103°55'08.834"W	0.30	
13483.00	91.000	357.500	9874.04	3819.07	3819.30	92.59	628087.52	445519.34	32°13'27.016"N	103°55'08.873"W	0.57	
13578.00	91.000	357.400	9872.38	3913.98	3914.19	88.36	628083.30	445614.22	32°13'27.955"N	103°55'08.918"W	0.11	
13672.00	90.000	357.200	9871.56	4007.88	4008.08	83.94	628078.87	445708.11	32°13'28.884"N	103°55'08.965"W	1.08	
13766.00	89.500	356.900	9871.97	4101.76	4101.96	79.10	628074.03	445801.97	32°13'29.813"N	103°55'09.017"W	0.62	
13861.00	89.400	356.900	9872.88	4196.63	4196.81	73.96	628068.90	445896.82	32°13'30.752"N	103°55'09.073"W	0.11	
13955.00	89.800	0.900	9873.54	4290.59	4290.77	72.16	628067.09	445990.78	32°13'31.682"N	103°55'09.090"W	4.28	
14051.00	90.000	358.000	9873.70	4386.58	4386.76	71.24	628066.17	446086.75	32°13'32.632"N	103°55'09.096"W	3.03	
14145.00	89.600	358.300	9874.03	4480.54	4480.71	68.20	628063.14	446180.70	32°13'33.562"N	103°55'09.127"W	0.53	
14239.00	89.800	358.500	9874.52	4574.51	4574.67	65.58	628060.51	446274.65	32°13'34.492"N	103°55'09.153"W	0.30	
14334.00	90.000	356.800	9874.69	4669.43	4669.59	61.68	628056.62	446369.56	32°13'35.431"N	103°55'09.195"W	1.80	
14429.00	89.700	357.400	9874.94	4764.32	4764.47	56.88	628051.81	446464.43	32°13'36.370"N	103°55'09.246"W	0.71	
14523.00	89.500	357.400	9875.59	4858.23	4858.37	52.61	628047.55	446558.33	32°13'37.299"N	103°55'09.292"W	0.21	
14618.00	89.200	356.700	9876.67	4953.11	4953.23	47.72	628042.66	446653.19	32°13'38.238"N	103°55'09.344"W	0.80	
14713.00	89.400	357.200	9877.83	5047.98	5048.09	42.67	628037.61	446748.04	32°13'39.177"N	103°55'09.399"W	0.57	
14808.00	89.000	356.800	9879.16	5142.85	5142.95	37.70	628032.63	446842.89	32°13'40.116"N	103°55'09.453"W	0.60	
14902.00	89.000	358.500	9880.80	5236.76	5236.86	33.84	628028.78	446936.79	32°13'41.045"N	103°55'09.493"W	1.81	
14996.00	91.000	0.100	9880.80	5330.75	5330.84	32.70	628027.63	447030.77	32°13'41.975"N	103°55'09.502"W	2.72	
15091.00	91.400	1.400	9878.81	5425.72	5425.81	33.94	628028.88	447125.73	32°13'42.915"N	103°55'09.484"W	1.43	
15185.00	91.900	0.600	9876.10	5519.66	5519.76	35.58	628030.52	447219.67	32°13'43.845"N	103°55'09.460"W	1.00	
15280.00	90.700	0.300	9873.95	5614.63	5614.73	36.32	628031.26	447314.63	32°13'44.784"N	103°55'09.447"W	1.30	
15375.00	90.300	359.500	9873.12	5709.62	5709.72	36.16	628031.10	447409.62	32°13'45.724"N	103°55'09.445"W	0.94	
15469.00	90.800	0.200	9872.22	5803.62	5803.72	35.91	628030.85	447503.61	32°13'46.655"N	103°55'09.444"W	0.92	
15564.00	90.200	359.100	9871.39	5898.61	5898.71	35.33	628030.27	447598.59	32°13'47.595"N	103°55'09.446"W	1.32	
15658.00	90.200	359.300	9871.06	5992.60	5992.70	34.02	628028.96	447692.57	32°13'48.525"N	103°55'09.457"W	0.21	
15753.00	89.700	359.000	9871.14	6087.60	6087.69	32.61	628027.55	447787.56	32°13'49.465"N	103°55'09.469"W	0.61	
15849.00	90.000	358.700	9871.39	6183.58	6183.67	30.68	628025.62	447883.53	32°13'50.415"N	103°55'09.487"W	0.44	
15944.00	90.400	358.700	9871.06	6278.56	6278.64	28.53	628023.47	447978.50	32°13'51.354"N	103°55'09.508"W	0.42	
16038.00	90.600	358.400	9870.24	6372.53	6372.61	26.15	628021.09	448072.46	32°13'52.284"N	103°55'09.532"W	0.38	
16133.00	90.700	358.200	9869.16	6467.49	6467.56	23.33	628018.27	448167.40	32°13'53.224"N	103°55'09.560"W	0.24	



Actual Wellpath Report

No.441H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 441H SHL
Area	Eddy County, NM	Well	No. 441H
Field	Poker Lake Unit	Wellbore	No.441H AWB
Facility	Poker Lake Unit No. 440H and No. 441H		

WELLPATH DATA (187 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
16228.00	91.300	358.100	9867.51	6562.43	6562.50	20.27	628015.20	448262.33	32°13'54.164"N	103°55'09.592"W	0.64	
16323.00	90.700	357.600	9865.85	6657.36	6657.41	16.70	628011.64	448357.24	32°13'55.103"N	103°55'09.629"W	0.82	
16418.00	90.200	357.300	9865.10	6752.27	6752.32	12.48	628007.41	448452.14	32°13'56.042"N	103°55'09.674"W	0.61	
16513.00	90.100	357.000	9864.85	6847.16	6847.20	7.75	628002.69	448547.01	32°13'56.981"N	103°55'09.725"W	0.33	
16607.00	90.200	356.500	9864.61	6941.02	6941.05	2.42	627997.36	448640.85	32°13'57.910"N	103°55'09.782"W	0.54	
16639.00	90.100	356.500	9864.52	6972.97	6972.99	0.47	627995.41	448672.79	32°13'58.226"N	103°55'09.804"W	0.31	
16692.00	90.100	356.500	9864.43	7025.88	7025.89	-2.77	627992.17	448725.69	32°13'58.750"N	103°55'09.839"W	0.00	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. 441H PBHL		9882.00	6996.60	-16.34	627978.60	448696.40	32°13'58.461"N	103°55'09.998"W	point

WELLPATH COMPOSITION - Ref Wellbore: No.441H AWB - Ref Wellpath: No.441H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	527.00	Generic gyro - northseeking (Standard)	VES Gyro <100-527>	No.441H AWB
527.00	16639.00	NaviTrak (Standard)	BHI MWD NaviTrak <619-XXXX>	No.441H AWB
16639.00	16692.00	Blind Drilling (std)	Projection to bit	No.441H AWB