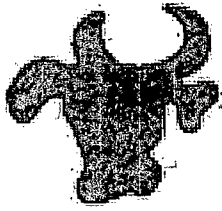


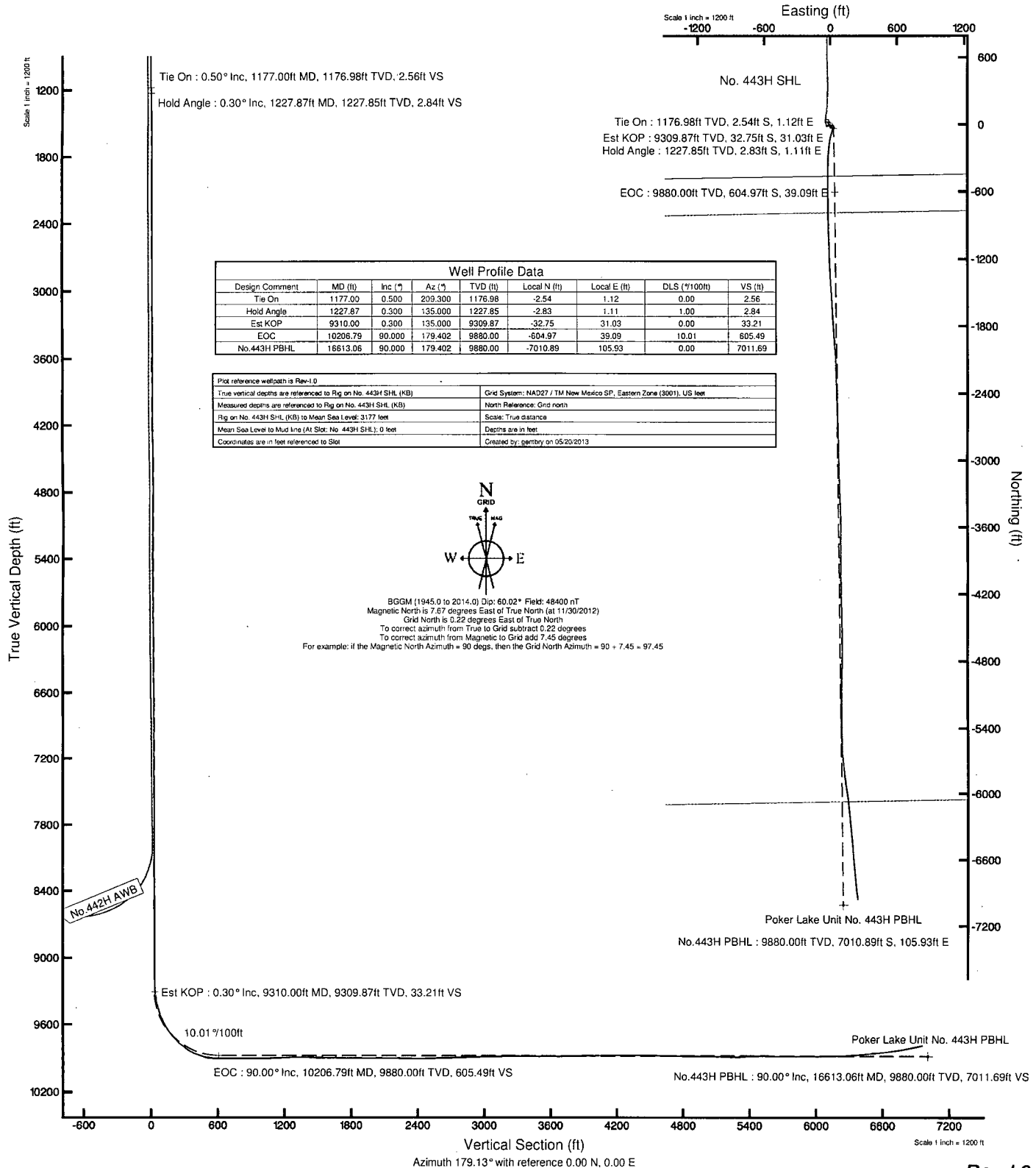
30-015-41198



BOPCO, L.P.

Location: Eddy County, NM
Field: Poker Lake Unit
Facility: Poker Lake Unit No. 442H and 443H

Slot: No. 443H SHL
Well: No. 443H
Wellbore: No. 443H PWB





Actual Wellpath Report

No. 443H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 443H SHL
Area	Eddy County, NM	Well	No.443H
Field	Poker Lake Unit	Wellbore	No. 443H AWB
Facility	Poker Lake Unit No. 442H and 443H		

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	0.999928	Report Generated	06/11/2013 at 3:11:24 PM
Convergence at slot	0.22° East	Database/Source file	WA Midland/No._443H_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	628181.49	435921.07	32°11'52.026"N	103°55'08.210"W
Facility Reference Pt			628181.49	435921.07	32°11'52.026"N	103°55'08.210"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. 443H SHL (KB) to Facility Vertical Datum	3177.00ft
Horizontal Reference Pt	Slot	Rig on No. 443H SHL (KB) to Mean Sea Level	3177.00ft
Vertical Reference Pt	Rig on No. 443H SHL (KB)	Rig on No. 443H SHL (KB) to Mud Line at Slot (No. 443H SHL)	3177.00ft
MD Reference Pt	Rig on No. 443H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.13°



Actual Wellpath Report

No. 443H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 443H SHL
Area	Eddy County, NM	Well	No. 443H
Field	Poker Lake Unit	Wellbore	No. 443H AWB
Facility	Poker Lake Unit No. 442H and 443H		

WELLPATH DATA (198 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	4.460	0.00	0.00	0.00	0.00	628181.49	435921.07	32°11'52.026"N	103°55'08.210"W	0.00	
100.00	0.210	4.460	100.00	-0.18	0.18	0.01	628181.50	435921.25	32°11'52.028"N	103°55'08.210"W	0.21	
200.00	0.410	336.430	200.00	-0.70	0.69	-0.11	628181.38	435921.76	32°11'52.033"N	103°55'08.211"W	0.25	
300.00	0.090	304.220	300.00	-1.07	1.07	-0.32	628181.17	435922.14	32°11'52.037"N	103°55'08.214"W	0.34	
400.00	0.090	351.420	400.00	-1.19	1.19	-0.40	628181.09	435922.26	32°11'52.038"N	103°55'08.214"W	0.07	
500.00	0.290	166.740	500.00	-1.02	1.02	-0.35	628181.14	435922.09	32°11'52.037"N	103°55'08.214"W	0.38	
551.00	0.370	108.320	551.00	-0.84	0.84	-0.17	628181.32	435921.91	32°11'52.035"N	103°55'08.212"W	0.65	
646.00	0.400	124.500	645.99	-0.55	0.56	0.40	628181.89	435921.63	32°11'52.032"N	103°55'08.205"W	0.12	
766.00	0.600	140.600	765.99	0.18	-0.17	1.14	628182.63	435920.90	32°11'52.025"N	103°55'08.197"W	0.20	
893.00	0.300	153.600	892.99	1.00	-0.98	1.71	628183.20	435920.09	32°11'52.017"N	103°55'08.190"W	0.25	
988.00	0.300	186.400	987.98	1.47	-1.45	1.79	628183.28	435919.62	32°11'52.012"N	103°55'08.189"W	0.18	
1083.00	0.400	222.500	1082.98	1.96	-1.94	1.54	628183.03	435919.13	32°11'52.007"N	103°55'08.192"W	0.25	
1177.00	0.500	209.300	1176.98	2.56	-2.54	1.12	628182.61	435918.53	32°11'52.001"N	103°55'08.197"W	0.15	
1272.00	0.400	187.700	1271.98	3.24	-3.23	0.87	628182.36	435917.84	32°11'51.994"N	103°55'08.200"W	0.21	
1367.00	0.500	173.200	1366.97	3.98	-3.97	0.88	628182.37	435917.10	32°11'51.987"N	103°55'08.200"W	0.16	
1462.00	0.700	133.900	1461.97	4.80	-4.78	1.34	628182.83	435916.29	32°11'51.979"N	103°55'08.194"W	0.47	
1557.00	0.500	90.000	1556.96	5.22	-5.19	2.18	628183.67	435915.89	32°11'51.975"N	103°55'08.185"W	0.51	
1652.00	0.400	74.600	1651.96	5.14	-5.10	2.91	628184.40	435915.97	32°11'51.976"N	103°55'08.176"W	0.16	
1748.00	0.100	67.700	1747.96	5.03	-4.98	3.31	628184.80	435916.09	32°11'51.977"N	103°55'08.171"W	0.31	
1842.00	0.200	222.600	1841.96	5.12	-5.07	3.28	628184.77	435916.00	32°11'51.976"N	103°55'08.172"W	0.31	
1937.00	0.200	209.000	1936.96	5.38	-5.33	3.08	628184.57	435915.74	32°11'51.974"N	103°55'08.174"W	0.05	
2032.00	0.300	179.500	2031.96	5.77	-5.73	3.01	628184.50	435915.34	32°11'51.970"N	103°55'08.175"W	0.17	
2126.00	0.200	209.800	2125.96	6.16	-6.12	2.93	628184.42	435914.96	32°11'51.966"N	103°55'08.176"W	0.17	
2221.00	0.100	203.700	2220.96	6.38	-6.34	2.81	628184.30	435914.74	32°11'51.964"N	103°55'08.177"W	0.11	
2316.00	0.400	115.800	2315.96	6.60	-6.56	3.08	628184.57	435914.52	32°11'51.961"N	103°55'08.174"W	0.43	
2411.00	0.500	89.700	2410.95	6.75	-6.70	3.79	628185.28	435914.37	32°11'51.960"N	103°55'08.166"W	0.24	
2507.00	0.100	35.200	2506.95	6.69	-6.63	4.26	628185.75	435914.44	32°11'51.961"N	103°55'08.161"W	0.47	
2602.00	0.100	312.800	2601.95	6.57	-6.50	4.24	628185.73	435914.57	32°11'51.962"N	103°55'08.161"W	0.14	
2697.00	0.400	97.000	2696.95	6.55	-6.49	4.51	628186.00	435914.58	32°11'51.962"N	103°55'08.158"W	0.51	
2792.00	0.600	98.400	2791.95	6.68	-6.60	5.33	628186.82	435914.47	32°11'51.961"N	103°55'08.148"W	0.21	
2887.00	0.900	105.300	2886.94	6.97	-6.87	6.54	628188.03	435914.20	32°11'51.958"N	103°55'08.134"W	0.33	
2982.00	1.500	114.800	2981.92	7.71	-7.59	8.39	628189.88	435913.48	32°11'51.951"N	103°55'08.112"W	0.66	
3077.00	1.600	115.400	3076.88	8.84	-8.68	10.72	628192.21	435912.39	32°11'51.940"N	103°55'08.085"W	0.11	
3172.00	1.100	136.100	3171.86	10.09	-9.90	12.55	628194.04	435911.17	32°11'51.928"N	103°55'08.064"W	0.73	
3267.00	0.400	161.000	3266.85	11.07	-10.87	13.29	628194.78	435910.20	32°11'51.918"N	103°55'08.056"W	0.80	
3362.00	0.300	161.800	3361.85	11.63	-11.42	13.48	628194.97	435909.65	32°11'51.913"N	103°55'08.053"W	0.11	
3397.00	0.300	155.700	3396.85	11.80	-11.60	13.54	628195.03	435909.48	32°11'51.911"N	103°55'08.053"W	0.09	
3549.00	0.400	133.000	3548.84	12.53	-12.32	14.09	628195.58	435908.75	32°11'51.904"N	103°55'08.046"W	0.11	
3643.00	0.400	131.500	3642.84	12.98	-12.76	14.58	628196.07	435908.31	32°11'51.900"N	103°55'08.041"W	0.01	
3738.00	0.600	107.300	3737.84	13.36	-13.13	15.30	628196.79	435907.94	32°11'51.896"N	103°55'08.032"W	0.30	
3833.00	0.500	121.600	3832.83	13.74	-13.49	16.13	628197.62	435907.58	32°11'51.892"N	103°55'08.023"W	0.18	
3929.00	0.700	89.700	3928.83	13.97	-13.71	17.07	628198.56	435907.36	32°11'51.890"N	103°55'08.012"W	0.40	
4024.00	0.400	61.700	4023.82	13.82	-13.55	17.95	628199.44	435907.52	32°11'51.892"N	103°55'08.002"W	0.42	
4119.00	0.500	79.700	4118.82	13.60	-13.32	18.65	628200.14	435907.75	32°11'51.894"N	103°55'07.993"W	0.18	
4214.00	0.400	60.100	4213.82	13.37	-13.08	19.34	628200.83	435907.99	32°11'51.896"N	103°55'07.985"W	0.19	



Actual Wellpath Report

No. 443H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 443H SHL
Area	Eddy County, NM	Well	No. 443H
Field	Poker Lake Unit	Wellbore	No. 443H AWB
Facility	Poker Lake Unit No. 442H and 443H		

WELLPATH DATA (198 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
4310.00	0.000	105.000	4309.82	13.21	-12.91	19.63	628201.12	435908.16	32°11'51.898"N	103°55'07.982"W	0.42	
4405.00	0.200	100.800	4404.82	13.24	-12.94	19.80	628201.28	435908.13	32°11'51.898"N	103°55'07.980"W	0.21	
4500.00	0.200	318.300	4499.82	13.15	-12.85	19.85	628201.34	435908.22	32°11'51.899"N	103°55'07.979"W	0.40	
4595.00	0.000	96.500	4594.82	13.02	-12.73	19.74	628201.23	435908.34	32°11'51.900"N	103°55'07.981"W	0.21	
4690.00	0.100	349.100	4689.82	12.94	-12.65	19.72	628201.21	435908.43	32°11'51.901"N	103°55'07.981"W	0.11	
4785.00	0.300	53.400	4784.82	12.71	-12.42	19.91	628201.39	435908.66	32°11'51.903"N	103°55'07.979"W	0.29	
4880.00	0.300	27.100	4879.82	12.35	-12.05	20.22	628201.71	435909.03	32°11'51.906"N	103°55'07.975"W	0.14	
4974.00	0.100	344.100	4973.81	12.05	-11.75	20.31	628201.80	435909.32	32°11'51.909"N	103°55'07.974"W	0.25	
5070.00	0.300	99.000	5069.81	12.02	-11.71	20.53	628202.02	435909.36	32°11'51.910"N	103°55'07.971"W	0.37	
5164.00	0.100	55.900	5163.81	12.01	-11.70	20.84	628202.33	435909.37	32°11'51.910"N	103°55'07.968"W	0.25	
5259.00	0.300	65.000	5258.81	11.87	-11.55	21.14	628202.63	435909.52	32°11'51.911"N	103°55'07.964"W	0.21	
5354.00	0.300	122.600	5353.81	11.90	-11.58	21.57	628203.06	435909.49	32°11'51.911"N	103°55'07.959"W	0.30	
5449.00	0.400	125.000	5448.81	12.23	-11.90	22.05	628203.54	435909.17	32°11'51.908"N	103°55'07.954"W	0.11	
5544.00	0.600	123.200	5543.81	12.71	-12.36	22.74	628204.23	435908.71	32°11'51.903"N	103°55'07.946"W	0.21	
5639.00	0.700	132.000	5638.80	13.38	-13.02	23.59	628205.08	435908.05	32°11'51.897"N	103°55'07.936"W	0.15	
5734.00	0.700	143.900	5733.79	14.25	-13.88	24.36	628205.85	435907.19	32°11'51.888"N	103°55'07.927"W	0.15	
5829.00	0.900	142.100	5828.78	15.32	-14.94	25.16	628206.65	435906.13	32°11'51.878"N	103°55'07.918"W	0.21	
5924.00	0.600	131.600	5923.78	16.25	-15.86	25.99	628207.48	435905.21	32°11'51.869"N	103°55'07.908"W	0.35	
6019.00	0.800	109.000	6018.77	16.81	-16.40	26.99	628208.48	435904.67	32°11'51.863"N	103°55'07.896"W	0.35	
6114.00	0.600	99.900	6113.76	17.13	-16.71	28.11	628209.60	435904.37	32°11'51.860"N	103°55'07.883"W	0.24	
6209.00	0.800	98.500	6208.75	17.33	-16.89	29.26	628210.74	435904.18	32°11'51.858"N	103°55'07.870"W	0.21	
6304.00	0.400	113.400	6303.75	17.57	-17.12	30.22	628211.70	435903.95	32°11'51.856"N	103°55'07.859"W	0.45	
6399.00	0.300	166.900	6398.75	17.95	-17.49	30.58	628212.06	435903.58	32°11'51.852"N	103°55'07.855"W	0.34	
6494.00	0.400	144.000	6493.75	18.47	-18.00	30.83	628212.32	435903.07	32°11'51.847"N	103°55'07.852"W	0.18	
6589.00	0.200	196.400	6588.74	18.90	-18.43	30.98	628212.46	435902.64	32°11'51.843"N	103°55'07.850"W	0.34	
6684.00	0.500	103.800	6683.74	19.16	-18.69	31.33	628212.82	435902.38	32°11'51.840"N	103°55'07.846"W	0.58	
6779.00	0.300	128.600	6778.74	19.42	-18.94	31.93	628213.42	435902.13	32°11'51.838"N	103°55'07.839"W	0.27	
6874.00	0.200	120.000	6873.74	19.67	-19.18	32.27	628213.75	435901.89	32°11'51.835"N	103°55'07.835"W	0.11	
6970.00	0.300	248.000	6969.74	19.84	-19.36	32.18	628213.67	435901.71	32°11'51.834"N	103°55'07.836"W	0.47	
7065.00	0.500	177.500	7064.74	20.35	-19.87	31.97	628213.45	435901.21	32°11'51.829"N	103°55'07.839"W	0.52	
7160.00	0.600	96.700	7159.73	20.83	-20.34	32.48	628213.97	435900.73	32°11'51.824"N	103°55'07.833"W	0.75	
7248.00	1.200	109.800	7247.72	21.21	-20.70	33.80	628215.29	435900.37	32°11'51.820"N	103°55'07.817"W	0.72	
7344.00	1.700	134.600	7343.69	22.58	-22.04	35.76	628217.25	435899.03	32°11'51.807"N	103°55'07.795"W	0.82	
7439.00	1.100	166.200	7438.67	24.48	-23.92	36.98	628218.47	435897.15	32°11'51.788"N	103°55'07.780"W	1.01	
7534.00	1.100	199.700	7533.65	26.22	-25.66	36.89	628218.38	435895.41	32°11'51.771"N	103°55'07.782"W	0.67	
7629.00	1.100	248.600	7628.63	27.39	-26.85	35.74	628217.22	435894.22	32°11'51.759"N	103°55'07.795"W	0.96	
7724.00	1.300	296.400	7723.62	27.22	-26.71	33.92	628215.41	435894.36	32°11'51.761"N	103°55'07.816"W	1.04	
7819.00	0.300	181.700	7818.61	26.97	-26.48	32.95	628214.44	435894.59	32°11'51.763"N	103°55'07.828"W	1.53	
7914.00	0.400	197.400	7913.61	27.54	-27.04	32.84	628214.33	435894.03	32°11'51.758"N	103°55'07.829"W	0.14	
8009.00	0.800	242.100	8008.60	28.15	-27.67	32.16	628213.65	435893.40	32°11'51.751"N	103°55'07.837"W	0.62	
8104.00	1.700	268.800	8103.58	28.46	-28.01	30.16	628211.65	435893.06	32°11'51.748"N	103°55'07.860"W	1.10	
8199.00	0.400	277.100	8198.56	28.42	-28.00	28.43	628209.91	435893.07	32°11'51.748"N	103°55'07.880"W	1.37	
8295.00	0.700	225.000	8294.56	28.79	-28.37	27.68	628209.17	435892.70	32°11'51.745"N	103°55'07.889"W	0.58	
8390.00	0.800	219.100	8389.55	29.70	-29.30	26.85	628208.34	435891.78	32°11'51.736"N	103°55'07.899"W	0.13	
8485.00	0.800	209.400	8484.54	30.78	-30.39	26.11	628207.59	435890.68	32°11'51.725"N	103°55'07.907"W	0.14	



Actual Wellpath Report

No. 443H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 443H SHL
Area	Eddy County, NM	Well	No. 443H
Field	Poker Lake Unit	Wellbore	No. 443H AWB
Facility	Poker Lake Unit No. 442H and 443H		

WELLPATH DATA (198 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
8580.00	0.800	212.400	8579.53	31.91	-31.53	25.43	628206.91	435889.55	32°11'51.713"N	103°55'07.915"W	0.04	
8676.00	0.400	249.200	8675.52	32.58	-32.21	24.75	628206.24	435888.86	32°11'51.707"N	103°55'07.923"W	0.56	
8770.00	0.300	331.500	8769.52	32.48	-32.11	24.33	628205.82	435888.96	32°11'51.708"N	103°55'07.928"W	0.50	
8866.00	0.700	332.100	8865.52	31.73	-31.37	23.93	628205.42	435889.70	32°11'51.715"N	103°55'07.933"W	0.42	
8961.00	0.700	287.500	8960.51	31.03	-30.68	23.11	628204.60	435890.39	32°11'51.722"N	103°55'07.942"W	0.56	
9057.00	0.800	242.200	9056.51	31.15	-30.82	21.96	628203.45	435890.25	32°11'51.721"N	103°55'07.956"W	0.61	
9152.00	0.800	201.500	9151.50	32.06	-31.75	21.13	628202.62	435889.33	32°11'51.711"N	103°55'07.965"W	0.59	
9206.00	0.900	160.500	9205.49	32.81	-32.50	21.13	628202.62	435888.57	32°11'51.704"N	103°55'07.965"W	1.12	
9241.00	2.900	124.300	9240.47	33.58	-33.26	21.95	628203.44	435887.82	32°11'51.697"N	103°55'07.956"W	6.39	
9273.00	2.700	177.400	9272.44	34.80	-34.47	22.66	628204.15	435886.61	32°11'51.685"N	103°55'07.948"W	7.84	
9305.00	5.300	190.100	9304.36	37.01	-36.67	22.43	628203.92	435884.40	32°11'51.663"N	103°55'07.950"W	8.53	
9336.00	7.300	194.300	9335.17	40.32	-39.99	21.69	628203.18	435881.08	32°11'51.630"N	103°55'07.959"W	6.62	
9368.00	9.900	199.000	9366.81	44.87	-44.56	20.30	628201.78	435876.51	32°11'51.585"N	103°55'07.976"W	8.41	
9399.00	11.200	197.600	9397.28	50.23	-49.95	18.52	628200.01	435871.12	32°11'51.531"N	103°55'07.997"W	4.27	
9431.00	13.500	195.600	9428.54	56.76	-56.51	16.57	628198.06	435864.56	32°11'51.467"N	103°55'08.019"W	7.31	
9463.00	16.200	193.700	9459.47	64.66	-64.45	14.51	628196.00	435856.62	32°11'51.388"N	103°55'08.044"W	8.57	
9495.00	18.700	195.100	9489.99	73.92	-73.74	12.12	628193.61	435847.33	32°11'51.296"N	103°55'08.072"W	7.92	
9526.00	21.100	194.500	9519.14	84.08	-83.94	9.43	628190.92	435837.13	32°11'51.195"N	103°55'08.104"W	7.77	
9558.00	24.100	194.000	9548.68	95.95	-95.86	6.40	628187.89	435825.22	32°11'51.078"N	103°55'08.140"W	9.39	
9590.00	26.800	193.500	9577.57	109.25	-109.22	3.14	628184.63	435811.86	32°11'50.946"N	103°55'08.178"W	8.46	
9622.00	29.400	191.800	9605.80	123.91	-123.92	-0.15	628181.34	435797.16	32°11'50.800"N	103°55'08.217"W	8.50	
9653.00	30.800	188.900	9632.62	139.15	-139.21	-2.94	628178.55	435781.87	32°11'50.649"N	103°55'08.250"W	6.51	
9694.00	34.200	190.100	9667.19	160.82	-160.94	-6.58	628174.91	435760.15	32°11'50.434"N	103°55'08.294"W	8.44	
9726.00	37.700	188.300	9693.09	179.31	-179.48	-9.57	628171.92	435741.61	32°11'50.251"N	103°55'08.329"W	11.42	
9758.00	40.400	186.900	9717.94	199.25	-199.46	-12.23	628169.26	435721.63	32°11'50.053"N	103°55'08.361"W	8.88	
9790.00	43.500	185.000	9741.74	220.49	-220.73	-14.44	628167.05	435700.35	32°11'49.843"N	103°55'08.388"W	10.47	
9821.00	46.900	185.100	9763.58	242.36	-242.64	-16.38	628165.12	435678.45	32°11'49.626"N	103°55'08.411"W	10.97	
9853.00	50.200	184.700	9784.76	266.23	-266.53	-18.42	628163.07	435654.56	32°11'49.390"N	103°55'08.436"W	10.35	
9884.00	53.400	183.400	9803.93	290.49	-290.83	-20.14	628161.36	435630.26	32°11'49.149"N	103°55'08.457"W	10.84	
9916.00	56.500	182.200	9822.31	316.63	-316.99	-21.41	628160.08	435604.10	32°11'48.890"N	103°55'08.473"W	10.16	
9948.00	59.800	181.900	9839.19	343.78	-344.15	-22.38	628159.11	435576.94	32°11'48.622"N	103°55'08.486"W	10.34	
9979.00	63.500	181.500	9853.91	371.03	-371.42	-23.19	628158.30	435549.68	32°11'48.352"N	103°55'08.496"W	11.99	
10011.00	66.600	181.300	9867.40	400.01	-400.42	-23.90	628157.59	435520.68	32°11'48.065"N	103°55'08.506"W	9.70	
10043.00	70.200	181.100	9879.18	429.74	-430.16	-24.52	628156.97	435490.94	32°11'47.771"N	103°55'08.514"W	11.26	
10075.00	74.300	180.200	9888.94	460.20	-460.63	-24.86	628156.63	435460.47	32°11'47.469"N	103°55'08.520"W	13.09	
10106.00	78.500	179.400	9896.22	490.32	-490.75	-24.76	628156.74	435430.35	32°11'47.171"N	103°55'08.520"W	13.78	
10138.00	82.700	179.300	9901.45	521.89	-522.31	-24.40	628157.09	435398.79	32°11'46.859"N	103°55'08.517"W	13.13	
10168.00	87.800	179.600	9903.93	551.77	-552.20	-24.11	628157.38	435368.91	32°11'46.563"N	103°55'08.515"W	17.03	
10200.00	89.500	179.900	9904.69	583.76	-584.19	-23.97	628157.52	435336.92	32°11'46.247"N	103°55'08.515"W	5.39	
10231.00	89.200	179.700	9905.04	614.76	-615.19	-23.86	628157.63	435305.93	32°11'45.940"N	103°55'08.515"W	1.16	
10325.00	90.400	179.400	9905.37	708.75	-709.18	-23.12	628158.37	435211.94	32°11'45.010"N	103°55'08.511"W	1.32	
10420.00	89.700	179.400	9905.28	803.75	-804.18	-22.13	628159.36	435116.95	32°11'44.070"N	103°55'08.503"W	0.74	
10515.00	89.900	178.900	9905.62	898.75	-899.16	-20.72	628160.77	435021.97	32°11'43.130"N	103°55'08.491"W	0.57	
10610.00	91.500	178.000	9904.45	993.73	-994.12	-18.15	628163.34	434927.02	32°11'42.190"N	103°55'08.466"W	1.93	
10705.00	91.900	178.800	9901.64	1088.68	-1089.04	-15.50	628165.99	434832.11	32°11'41.251"N	103°55'08.439"W	0.94	



Actual Wellpath Report

No. 443H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 443H SHL
Area	Eddy County, NM	Well	No. 443H
Field	Poker Lake Unit	Wellbore	No. 443H AWB
Facility	Poker Lake Unit No. 442H and 443H		

WELLPATH DATA (198 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
10800.00	92.500	177.600	9897.99	1183.60	-1183.92	-12.52	628168.97	434737.24	32°11'40.312"N	103°55'08.409"W	1.41	
10895.00	91.100	177.200	9895.01	1278.50	-1278.77	-8.21	628173.28	434642.39	32°11'39.373"N	103°55'08.363"W	1.53	
10990.00	89.400	176.600	9894.59	1373.43	-1373.63	-3.07	628178.42	434547.54	32°11'38.434"N	103°55'08.307"W	1.90	
11084.00	88.400	176.300	9896.40	1467.30	-1467.43	2.75	628184.24	434453.75	32°11'37.505"N	103°55'08.244"W	1.11	
11179.00	88.700	175.900	9898.80	1562.14	-1562.18	9.20	628190.69	434359.01	32°11'36.568"N	103°55'08.173"W	0.53	
11274.00	90.300	177.200	9899.63	1657.03	-1657.00	14.92	628196.41	434264.19	32°11'35.629"N	103°55'08.110"W	2.17	
11369.00	90.500	176.500	9898.97	1751.96	-1751.85	20.14	628201.63	434169.35	32°11'34.690"N	103°55'08.054"W	0.77	
11464.00	89.700	175.200	9898.80	1846.80	-1846.60	27.02	628208.50	434074.61	32°11'33.752"N	103°55'07.978"W	1.61	
11559.00	88.300	175.700	9900.46	1941.58	-1941.28	34.55	628216.04	433979.93	32°11'32.815"N	103°55'07.895"W	1.56	
11654.00	90.700	177.700	9901.29	2036.48	-2036.11	40.02	628221.51	433885.11	32°11'31.877"N	103°55'07.835"W	3.29	
11749.00	89.700	177.300	9900.96	2131.44	-2131.02	44.16	628225.65	433790.21	32°11'30.937"N	103°55'07.791"W	1.13	
11845.00	89.000	178.000	9902.04	2227.40	-2226.93	48.10	628229.58	433694.31	32°11'29.988"N	103°55'07.750"W	1.03	
11940.00	88.500	178.000	9904.12	2322.36	-2321.85	51.41	628232.90	433599.39	32°11'29.049"N	103°55'07.716"W	0.53	
12032.00	90.300	178.900	9905.08	2414.34	-2413.81	53.90	628235.39	433507.44	32°11'28.139"N	103°55'07.691"W	2.19	
12128.00	91.800	178.200	9903.32	2510.32	-2509.76	56.33	628237.82	433411.50	32°11'27.189"N	103°55'07.667"W	1.72	
12223.00	91.100	177.500	9900.92	2605.26	-2604.66	59.89	628241.38	433316.61	32°11'26.250"N	103°55'07.630"W	1.04	
12318.00	92.100	178.200	9898.26	2700.20	-2699.55	63.46	628244.94	433221.72	32°11'25.311"N	103°55'07.592"W	1.28	
12413.00	92.200	177.500	9894.70	2795.11	-2794.42	67.02	628248.50	433126.86	32°11'24.372"N	103°55'07.555"W	0.74	
12507.00	91.500	178.900	9891.67	2889.05	-2888.32	69.97	628251.45	433032.97	32°11'23.443"N	103°55'07.525"W	1.66	
12602.00	91.200	178.900	9889.43	2984.02	-2983.27	71.79	628253.28	432938.02	32°11'22.503"N	103°55'07.508"W	0.32	
12698.00	91.800	177.400	9886.91	3079.97	-3079.19	74.89	628256.37	432842.11	32°11'21.554"N	103°55'07.476"W	1.68	
12793.00	91.100	178.600	9884.51	3174.92	-3174.10	78.20	628259.69	432747.21	32°11'20.614"N	103°55'07.442"W	1.46	
12887.00	89.900	178.500	9883.69	3268.91	-3268.06	80.58	628262.07	432653.25	32°11'19.684"N	103°55'07.419"W	1.28	
12982.00	88.900	178.200	9884.68	3363.89	-3363.02	83.32	628264.80	432558.30	32°11'18.745"N	103°55'07.391"W	1.10	
13077.00	89.700	178.700	9885.85	3458.88	-3457.97	85.89	628267.37	432463.35	32°11'17.805"N	103°55'07.365"W	0.99	
13149.00	90.900	179.200	9885.47	3530.87	-3529.96	87.21	628268.69	432391.37	32°11'17.093"N	103°55'07.353"W	1.81	
13244.00	89.500	178.500	9885.14	3625.87	-3624.94	89.11	628270.60	432296.40	32°11'16.153"N	103°55'07.335"W	1.65	
13339.00	90.900	181.400	9884.81	3720.85	-3719.92	89.19	628270.68	432201.42	32°11'15.213"N	103°55'07.339"W	3.39	
13434.00	91.000	180.400	9883.23	3815.79	-3814.90	87.70	628269.19	432106.46	32°11'14.273"N	103°55'07.360"W	1.06	
13528.00	91.500	179.300	9881.18	3909.76	-3908.87	87.95	628269.43	432012.49	32°11'13.343"N	103°55'07.362"W	1.29	
13624.00	92.100	179.600	9878.16	4005.71	-4004.82	88.87	628270.35	431916.55	32°11'12.394"N	103°55'07.355"W	0.70	
13719.00	91.200	179.400	9875.43	4100.66	-4099.78	89.70	628271.18	431821.60	32°11'11.454"N	103°55'07.350"W	0.97	
13814.00	89.700	178.900	9874.68	4195.66	-4194.76	91.11	628272.59	431726.62	32°11'10.514"N	103°55'07.338"W	1.66	
13909.00	90.500	178.700	9874.52	4290.66	-4289.74	93.10	628274.58	431631.65	32°11'09.574"N	103°55'07.319"W	0.87	
14005.00	89.800	179.100	9874.27	4386.65	-4385.72	94.94	628276.42	431535.68	32°11'08.624"N	103°55'07.302"W	0.84	
14100.00	89.100	179.100	9875.18	4481.65	-4480.70	96.43	628277.92	431440.70	32°11'07.684"N	103°55'07.289"W	0.74	
14195.00	89.000	180.000	9876.75	4576.63	-4575.69	97.18	628278.66	431345.72	32°11'06.744"N	103°55'07.284"W	0.95	
14290.00	88.800	179.700	9878.58	4671.61	-4670.67	97.43	628278.91	431250.75	32°11'05.804"N	103°55'07.286"W	0.38	
14385.00	88.000	180.300	9881.23	4766.56	-4765.63	97.43	628278.91	431155.79	32°11'04.865"N	103°55'07.290"W	1.05	
14480.00	89.900	180.700	9882.97	4861.51	-4860.61	96.60	628278.08	431060.82	32°11'03.925"N	103°55'07.304"W	2.04	
14574.00	89.400	181.700	9883.54	4955.45	-4954.58	94.63	628276.11	430966.86	32°11'02.995"N	103°55'07.331"W	1.19	
14670.00	89.400	180.500	9884.55	5051.38	-5050.56	92.79	628274.27	430870.89	32°11'02.045"N	103°55'07.357"W	1.25	
14765.00	88.600	179.700	9886.21	5146.35	-5145.54	92.62	628274.10	430775.91	32°11'01.105"N	103°55'07.363"W	1.19	
14859.00	88.800	180.400	9888.34	5240.32	-5239.52	92.54	628274.02	430681.94	32°11'00.176"N	103°55'07.368"W	0.77	
14954.00	92.600	179.500	9887.18	5335.28	-5334.49	92.62	628274.10	430586.97	32°10'59.236"N	103°55'07.371"W	4.11	



Actual Wellpath Report

No. 443H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 443H SHL
Area	Eddy County, NM	Well	No. 443H
Field	Poker Lake Unit	Wellbore	No. 443H AWB
Facility	Poker Lake Unit No. 442H and 443H		

WELLPATH DATA (198 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
15049.00	92.600	179.500	9882.87	5430.18	-5429.39	93.45	628274.93	430492.08	32°10'58.297"N	103°55'07.366"W	0.00	
15144.00	88.800	179.000	9881.71	5525.16	-5524.36	94.69	628276.18	430397.12	32°10'57.357"N	103°55'07.356"W	4.03	
15237.00	89.700	176.300	9882.93	5618.11	-5617.26	98.51	628279.99	430304.23	32°10'56.437"N	103°55'07.316"W	3.06	
15332.00	89.600	174.500	9883.51	5712.90	-5711.95	106.12	628287.61	430209.54	32°10'55.500"N	103°55'07.231"W	1.90	
15426.00	89.800	173.600	9884.00	5806.53	-5805.44	115.87	628297.35	430116.06	32°10'54.575"N	103°55'07.122"W	0.98	
15520.00	90.100	171.900	9884.08	5899.94	-5898.69	127.73	628309.21	430022.82	32°10'53.651"N	103°55'06.988"W	1.84	
15614.00	91.100	171.690	9883.10	5993.16	-5991.72	141.14	628322.62	429929.80	32°10'52.730"N	103°55'06.836"W	1.09	
15708.00	91.100	172.400	9881.29	6086.43	-6084.79	154.15	628335.63	429836.73	32°10'51.809"N	103°55'06.689"W	0.76	
15801.00	91.600	175.100	9879.10	6178.98	-6177.21	164.27	628345.75	429744.32	32°10'50.894"N	103°55'06.575"W	2.95	
15895.00	92.900	174.800	9875.41	6272.66	-6270.77	172.54	628354.02	429650.77	32°10'49.968"N	103°55'06.483"W	1.42	
15989.00	94.200	175.000	9869.59	6366.22	-6364.21	180.88	628362.36	429557.33	32°10'49.043"N	103°55'06.391"W	1.40	
16082.00	95.300	175.400	9861.89	6458.68	-6456.57	188.64	628370.11	429464.98	32°10'48.129"N	103°55'06.305"W	1.26	
16176.00	96.200	175.000	9852.47	6551.99	-6549.77	196.46	628377.94	429371.79	32°10'47.206"N	103°55'06.218"W	1.05	
16270.00	97.500	174.800	9841.26	6645.06	-6642.72	204.76	628386.23	429278.84	32°10'46.286"N	103°55'06.125"W	1.40	
16363.00	98.800	174.400	9828.08	6736.83	-6734.37	213.42	628394.89	429187.20	32°10'45.379"N	103°55'06.029"W	1.46	
16456.00	100.000	174.300	9812.89	6828.26	-6825.68	222.45	628403.93	429095.90	32°10'44.475"N	103°55'05.928"W	1.29	
16538.00	101.100	174.000	9797.87	6908.57	-6905.87	230.67	628412.14	429015.71	32°10'43.681"N	103°55'05.836"W	1.39	
16590.00	101.100	174.000	9787.86	6959.39	-6956.62	236.00	628417.48	428964.97	32°10'43.179"N	103°55'05.776"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. 443H PBHL		9880.00	-7010.89	105.92	628287.40	428910.70	32°10'42.647"N	103°55'07.292"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 443H AWB					Ref Wellpath: No. 443H AWP		
Start MD [ft]	End MD [ft]	Positional Uncertainty Model			Log Name/Comment		Wellbore
0.00	551.00	Generic gyro - northseeking (Standard)			UNKNOWN GYROS <22-551>		No. 443H AWB
551.00	16538.00	NaviTrak (Standard)			BHI MWD NaviTrak <646-XXXX>		No. 443H AWB
16538.00	16590.00	Blind Drilling (std)			Projection to bit		No. 443H AWB