



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

RECEIVED

FEB 27 2012

BOPCO WTD PRODUCTION

Well Name and Num: Poker Lake Unit 326 H
Location: Sec. 22, T24S. R30E
Operator: BOPCo
Drilling Contractor: McVay Drilling Company

30-015-39479

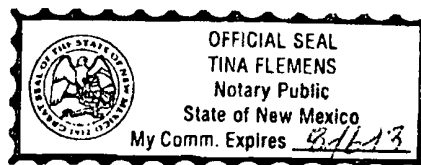
The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
1.56	274	31.00	7478	89.60	11399
2.69	506	38.60	7541	89.30	11621
1.29	808	52.90	7635	91.90	11997
1.20	1241	64.00	7760	92.20	12278
0.90	1689	66.90	7791	92.80	12560
0.20	2065	90.80	8069	93.90	12654
0.30	2635	90.60	7146		
0.40	3014	91.50	8523		
0.40	3773	91.10	8900		
0.72	4369	91.00	8993		
0.66	4745	91.70	9369		
0.52	5152	90.10	9744		
0.90	5555	91.40	9932		
0.95	6364	89.40	10308		
0.70	6764	90.20	10401		
0.93	7193	90.00	10964		
1.50	7260	90.40	11152		

By: Hunter Crum

Subscribed and sworn to before me this 24th day of February, 2012

Tina FLEMENS
Notary Public, Lea County, New Mexico





BOPCO, L.P.

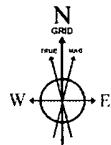
Location Eddy County, NM
Field Poker Lake Unit
Facility Poker Lake Unit No. 326H

Slot No 326H SHL
Well No 326H
Wellbore No 326H PWB

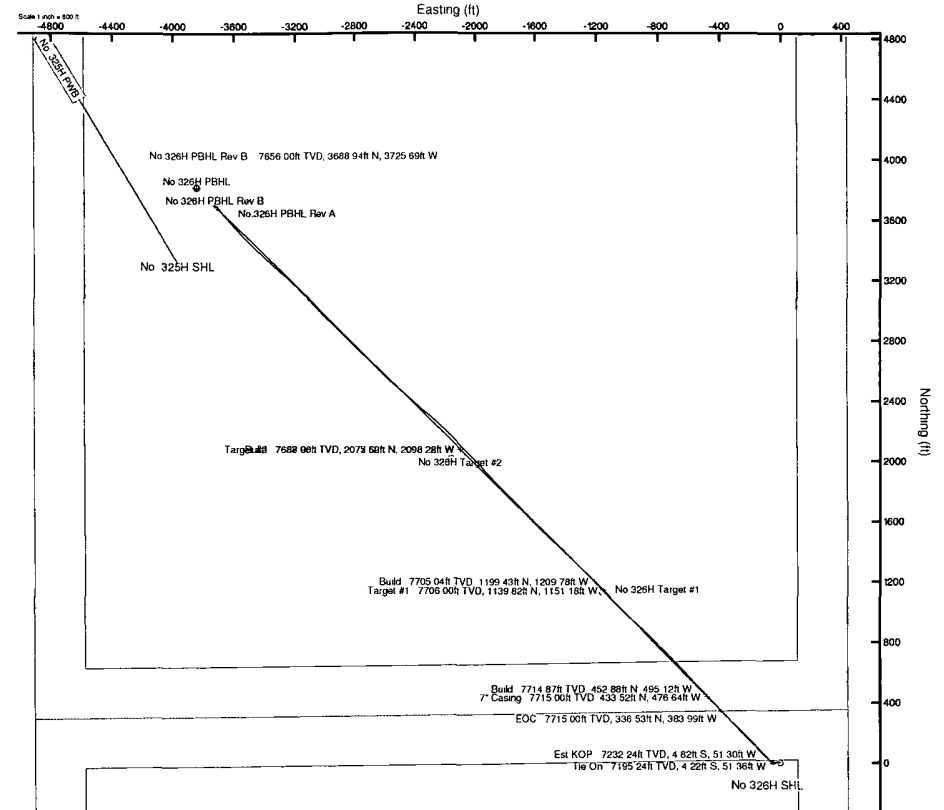
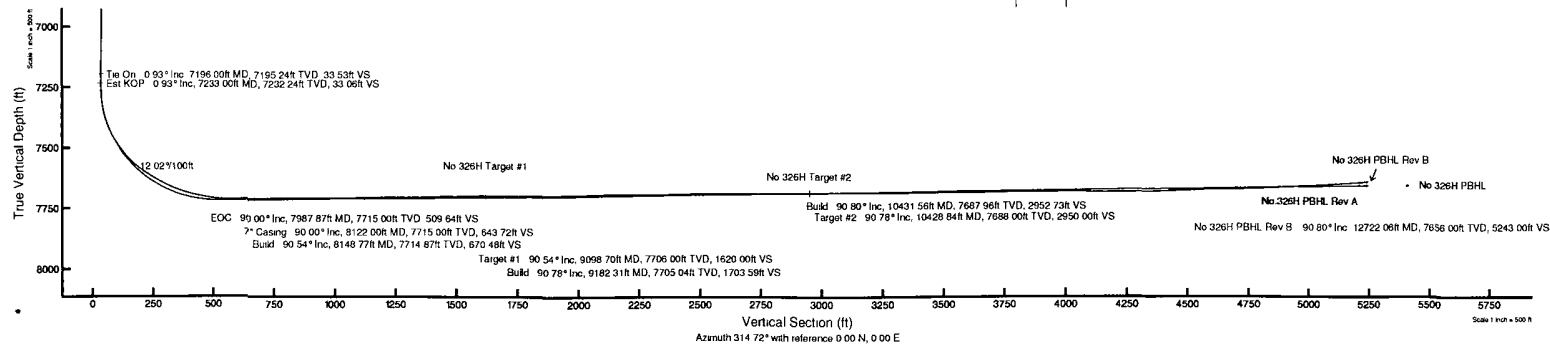


Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*100ft)	VS (ft)
Tie On	7196.00	0.930	174.050	7195.24	4.22	-51.38	0.00	33.53
Est KOP	7233.00	0.930	174.050	7232.24	-4.82	-51.30	0.00	33.06
EOC	7987.87	90.000	316.312	7715.00	336.53	-383.99	12.02	509.64
7" Casing	8122.00	90.000	316.312	7715.00	433.52	-476.64	0.00	643.72
Build	8148.77	90.535	316.318	7714.87	452.86	-495.12	2.00	670.48
Target #1	9098.70	90.535	316.318	7706.00	1139.82	-1151.18	0.00	1620.00
Build	9182.31	90.783	314.664	7705.04	1199.43	-1209.78	2.00	1703.59
Target #2	10428.84	90.783	314.664	7688.00	2075.60	-2096.28	0.00	2950.00
Build	10431.56	90.800	314.716	7687.96	2077.52	-2098.22	2.00	2952.73
No 326H PBHL Rev B	12722.06	90.800	314.716	7656.00	3688.94	-3725.69	0.00	5243.00

Plot reference wellpath is Plan #2	
True vertical depths are referenced to Rig on No 326H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No 326H SHL (KB)	North Reference: Grid north
Rig on No 326H SHL (KB) to Mean Sea Level 3407 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No 326H SHL) -3388 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: genitry on 2/7/2012



BGGM (1945.0 to 2012.0) Dp 60.11" Field 48561.7 nT
Magnetic North is 7.72 degrees East of True North (at 10/6/2011)
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 7.47 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.47 = 97.47





Actual Wellpath Report

No.326H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.326H SHL
Area	Eddy County, NM	Well	No.326H
Field	Poker Lake Unit	Wellbore	No.326H AWB
Facility	Poker Lake Unit No. 326H		

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	2/13/2012 at 7:13:50 AM
Convergence at slot	0.25° East	Database/Source file	WA Midland/No.326H_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	646028.51	435000.62	32°11'42.190"N	103°51'40.557"W
Facility Reference Pt			646028.51	435000.62	32°11'42.190"N	103°51'40.557"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.326H SHL (KB) to Facility Vertical Datum	19.00ft
Horizontal Reference Pt	Slot	Rig on No.326H SHL (KB) to Mean Sea Level	3407.00ft
Vertical Reference Pt	Rig on No.326H SHL (KB)	Rig on No.326H SHL (KB) to Mud Line at Slot (No.326H SHL)	19.00ft
MD Reference Pt	Rig on No.326H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	314.72°



Actual Wellpath Report

No.326H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.326H SHL
Area	Eddy County, NM	Well	No.326H
Field	Poker Lake Unit	Wellbore	No.326H AWP
Facility	Poker Lake Unit No. 326H		

WELLPATH DATA (156 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	287.640	0.00	0.00	0.00	0.00	646028.51	435000.62	32°11'42.190"N	103°51'40.557"W	0.00	
100.00	1.080	287.640	99.99	0.84	0.29	-0.90	646027.61	435000.91	32°11'42.192"N	103°51'40.567"W	1.08	
200.00	1.450	181.260	199.98	0.81	-0.69	-1.82	646026.69	434999.93	32°11'42.183"N	103°51'40.578"W	2.04	
300.00	1.830	279.960	299.95	1.25	-1.68	-3.42	646025.09	434998.94	32°11'42.173"N	103°51'40.597"W	2.50	
400.00	2.250	282.560	399.89	1.42	-0.98	-6.91	646021.60	434999.64	32°11'42.180"N	103°51'40.637"W	0.43	
500.00	2.230	285.310	499.81	7.58	-0.04	-10.71	646017.80	435000.58	32°11'42.190"N	103°51'40.682"W	0.11	
551.00	2.230	285.870	550.78	9.31	0.49	-12.62	646015.89	435001.11	32°11'42.195"N	103°51'40.704"W	0.04	
645.50	1.900	284.280	645.21	12.27	1.38	-15.90	646012.61	435002.00	32°11'42.204"N	103°51'40.742"W	0.35	
740.00	1.520	270.300	739.67	14.52	1.78	-18.68	646009.84	435002.40	32°11'42.208"N	103°51'40.774"W	0.59	
834.50	1.740	267.100	834.13	16.38	1.71	-21.36	646007.15	435002.33	32°11'42.207"N	103°51'40.805"W	0.25	
929.00	1.760	270.650	928.59	18.39	1.65	-24.25	646004.27	435002.27	32°11'42.207"N	103°51'40.839"W	0.12	
1023.50	1.800	267.540	1023.04	20.44	1.61	-27.18	646001.33	435002.23	32°11'42.207"N	103°51'40.873"W	0.11	
1118.00	1.230	252.510	1117.51	21.93	1.24	-29.63	645998.88	435001.86	32°11'42.203"N	103°51'40.902"W	0.73	
1212.50	0.990	265.920	1211.99	22.94	0.88	-31.41	645997.10	435001.50	32°11'42.200"N	103°51'40.922"W	0.37	
1307.00	1.060	250.210	1306.48	23.85	0.52	-33.05	645995.46	435001.14	32°11'42.196"N	103°51'40.941"W	0.31	
1401.50	1.160	253.070	1400.96	24.68	-0.05	-34.79	645993.73	435000.57	32°11'42.191"N	103°51'40.962"W	0.12	
1496.00	1.120	249.140	1495.44	25.52	-0.66	-36.56	645991.95	434999.96	32°11'42.185"N	103°51'40.982"W	0.09	
1590.50	0.910	252.030	1589.93	26.24	-1.22	-38.14	645990.37	434999.40	32°11'42.179"N	103°51'41.001"W	0.23	
1685.00	0.810	262.070	1684.42	26.99	-1.54	-39.52	645989.00	434999.08	32°11'42.176"N	103°51'41.017"W	0.19	
1779.50	0.710	274.250	1778.91	27.84	-1.59	-40.76	645987.75	434999.03	32°11'42.176"N	103°51'41.031"W	0.20	
1874.00	0.540	254.870	1873.40	28.51	-1.67	-41.78	645986.74	434998.95	32°11'42.175"N	103°51'41.043"W	0.28	
1968.50	0.460	246.490	1967.90	28.88	-1.93	-42.55	645985.96	434998.69	32°11'42.172"N	103°51'41.052"W	0.11	
2063.00	0.260	238.040	2062.40	29.07	-2.20	-43.08	645985.43	434998.42	32°11'42.170"N	103°51'41.058"W	0.22	
2157.50	0.140	246.060	2156.90	29.16	-2.36	-43.37	645985.14	434998.26	32°11'42.168"N	103°51'41.062"W	0.13	
2252.00	0.040	217.50	2251.40	29.22	-2.37	-43.47	645985.04	434998.25	32°11'42.168"N	103°51'41.063"W	0.17	
2346.50	0.120	38.720	2345.90	29.26	-2.26	-43.41	645985.10	434998.36	32°11'42.169"N	103°51'41.062"W	0.10	
2441.00	0.150	11.870	2440.40	29.33	-2.06	-43.32	645985.19	434998.56	32°11'42.171"N	103°51'41.061"W	0.07	
2535.50	0.170	340.660	2534.90	29.53	-1.81	-43.34	645985.17	434998.81	32°11'42.174"N	103°51'41.061"W	0.09	
2630.00	0.200	291.210	2629.40	29.80	-1.62	-43.54	645984.97	434999.00	32°11'42.175"N	103°51'41.064"W	0.17	
2724.50	0.3120	269.510	2723.90	30.02	-1.56	-43.80	645984.72	434999.06	32°11'42.176"N	103°51'41.067"W	0.10	
2819.00	0.160	219.710	2818.39	30.08	-1.66	-43.98	645984.53	434998.96	32°11'42.175"N	103°51'41.069"W	0.13	
2913.50	0.170	133.080	2912.89	29.93	-1.86	-43.96	645984.55	434998.76	32°11'42.173"N	103°51'41.069"W	0.24	
3008.00	0.200	131.570	3007.39	29.63	-2.06	-43.74	645984.78	434998.56	32°11'42.171"N	103°51'41.066"W	0.03	
3102.50	0.260	84.170	3101.89	29.33	-2.15	-43.40	645985.11	434998.47	32°11'42.170"N	103°51'41.062"W	0.20	
3197.00	0.330	71.410	3196.39	29.07	-2.04	-42.93	645985.58	434998.58	32°11'42.171"N	103°51'41.057"W	0.10	
3291.50	0.210	66.650	3290.89	28.88	-1.89	-42.51	645986.00	434998.73	32°11'42.173"N	103°51'41.052"W	0.13	
3386.00	0.090	102.630	3385.39	28.75	-1.84	-42.28	645986.23	434998.78	32°11'42.173"N	103°51'41.049"W	0.16	
3480.50	0.050	216.540	3479.89	28.68	-1.89	-42.23	645986.28	434998.73	32°11'42.173"N	103°51'41.048"W	0.13	
3575.00	0.130	149.970	3574.39	28.57	-2.01	-42.20	645986.31	434998.61	32°11'42.171"N	103°51'41.048"W	0.13	
3669.50	0.270	121.500	3668.89	28.25	-2.22	-41.96	645986.55	434998.40	32°11'42.169"N	103°51'41.045"W	0.18	
3764.00	0.270	99.820	3763.39	27.86	-2.38	-41.55	645986.96	434998.25	32°11'42.168"N	103°51'41.041"W	0.11	
3858.50	0.010	292.120	3857.89	27.68	-2.41	-41.34	645987.17	434998.21	32°11'42.167"N	103°51'41.038"W	0.30	
3953.00	0.200	303.650	3952.39	27.85	-2.32	-41.48	645987.03	434998.30	32°11'42.168"N	103°51'41.040"W	0.20	
4047.50	0.290	309.960	4046.89	28.25	-2.07	-41.80	645986.71	434998.55	32°11'42.171"N	103°51'41.044"W	0.10	
4142.00	0.210	308.880	4141.39	28.66	-1.81	-42.12	645986.39	434998.81	32°11'42.173"N	103°51'41.047"W	0.08	



Actual Wellpath Report

No.326H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.326H SHL
Area	Eddy County, NM	Well	No.326H
Field	Poker Lake Unit	Wellbore	No.326H AWP
Facility	Poker Lake Unit No. 326H		

WELLPATH DATA (156 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
4236.50	0.190	312.150	4235.89	28.99	-1.59	-42.37	645986.14	434999.03	32°11'42.176"N	103°51'41.050"W	0.02	
4331.00	0.240	312.000	4330.39	29.34	-1.36	-42.64	645985.88	434999.26	32°11'42.178"N	103°51'41.053"W	0.05	
4425.50	0.270	329.690	4424.88	29.76	-1.03	-42.90	645985.62	434999.59	32°11'42.181"N	103°51'41.056"W	0.09	
4520.00	0.290	338.580	4519.38	30.19	-0.62	-43.10	645985.42	435000.00	32°11'42.185"N	103°51'41.058"W	0.05	
4614.50	0.340	353.640	4613.88	30.63	-0.42	-43.21	645985.30	435000.50	32°11'42.190"N	103°51'41.060"W	0.10	
4709.00	0.430	336.810	4708.38	31.17	0.49	-43.39	645985.13	435001.11	32°11'42.196"N	103°51'41.062"W	0.15	
4803.50	0.620	325.270	4802.88	32.00	1.23	-43.82	645984.70	435001.85	32°11'42.204"N	103°51'41.067"W	0.23	
4898.00	0.600	321.240	4897.37	33.00	2.04	-44.42	645984.10	435002.66	32°11'42.212"N	103°51'41.074"W	0.05	
4992.50	0.490	351.110	4991.87	33.82	2.83	-44.79	645983.72	435003.45	32°11'42.219"N	103°51'41.078"W	0.32	
5087.00	0.570	325.500	5086.36	34.60	3.61	-45.12	645983.39	435004.23	32°11'42.227"N	103°51'41.082"W	0.26	
5181.50	0.590	329.170	5180.86	35.54	4.42	-45.63	645982.88	435005.04	32°11'42.235"N	103°51'41.088"W	0.04	
5276.00	0.560	330.500	5275.35	36.45	5.24	-46.11	645982.40	435005.86	32°11'42.243"N	103°51'41.093"W	0.03	
5370.50	0.560	333.920	5369.85	37.33	6.05	-46.54	645981.97	435006.67	32°11'42.251"N	103°51'41.098"W	0.04	
5465.00	0.540	333.750	5464.34	38.19	6.87	-46.94	645981.57	435007.49	32°11'42.260"N	103°51'41.103"W	0.02	
5559.50	0.480	321.090	5558.84	39.00	7.58	-47.39	645981.13	435008.20	32°11'42.267"N	103°51'41.108"W	0.13	
5654.00	0.460	311.320	5653.34	39.78	8.13	-47.92	645980.59	435008.75	32°11'42.272"N	103°51'41.114"W	0.09	
5748.50	0.430	308.860	5747.83	40.51	8.61	-48.48	645980.03	435009.23	32°11'42.277"N	103°51'41.121"W	0.04	
5873.00	0.270	308.280	5872.33	41.26	9.08	-49.08	645979.44	435009.70	32°11'42.282"N	103°51'41.128"W	0.13	
5967.50	0.130	249.190	5966.83	41.53	9.18	-49.35	645979.16	435009.80	32°11'42.283"N	103°51'41.131"W	0.25	
6062.00	0.220	180.080	6061.33	41.45	8.96	-49.45	645979.06	435009.58	32°11'42.280"N	103°51'41.132"W	0.22	
6156.50	0.470	167.060	6155.83	40.99	8.40	-49.36	645979.15	435009.02	32°11'42.275"N	103°51'41.131"W	0.28	
6251.00	0.670	149.830	6250.32	40.13	7.55	-49.00	645979.51	435008.17	32°11'42.266"N	103°51'41.127"W	0.28	
6345.50	0.640	176.870	6344.82	39.21	6.54	-48.69	645979.82	435007.16	32°11'42.256"N	103°51'41.123"W	0.33	
6440.00	0.630	183.190	6439.31	38.47	5.50	-48.69	645979.82	435006.12	32°11'42.246"N	103°51'41.123"W	0.07	
6534.50	0.710	186.880	6533.81	37.77	4.40	-48.79	645979.72	435005.02	32°11'42.235"N	103°51'41.124"W	0.10	
6629.00	0.740	208.560	6628.30	37.24	3.28	-49.15	645979.36	435003.90	32°11'42.224"N	103°51'41.129"W	0.29	
6723.50	0.800	214.330	6722.79	36.95	2.20	-49.82	645978.70	435002.82	32°11'42.213"N	103°51'41.137"W	0.10	
6818.00	0.800	211.540	6817.28	36.68	1.09	-50.53	645977.98	435001.71	32°11'42.203"N	103°51'41.145"W	0.04	
6912.50	0.800	201.920	6911.77	36.27	-0.08	-51.13	645977.39	435000.54	32°11'42.191"N	103°51'41.152"W	0.14	
7007.00	0.830	185.510	7006.26	35.58	-1.38	-51.44	645977.08	434999.24	32°11'42.178"N	103°51'41.156"W	0.25	
7101.50	0.850	177.260	7100.75	34.64	-2.76	-51.47	645977.04	434997.86	32°11'42.164"N	103°51'41.156"W	0.13	
7196.00	0.930	174.050	7195.24	33.53	-4.22	-51.36	645977.16	434996.40	32°11'42.150"N	103°51'41.155"W	0.10	
7228.00	0.800	205.600	7227.24	33.25	-4.68	-51.43	645977.09	434995.94	32°11'42.145"N	103°51'41.156"W	1.52	
7260.00	1.500	294.100	7259.23	33.57	-4.71	-51.91	645976.61	434995.91	32°11'42.145"N	103°51'41.161"W	5.25	
7291.00	4.600	309.200	7290.19	35.19	-3.76	-53.24	645975.27	434996.86	32°11'42.155"N	103°51'41.177"W	10.24	
7322.00	8.100	314.300	7320.99	38.61	-1.45	-55.77	645972.75	434999.17	32°11'42.178"N	103°51'41.206"W	11.42	
7354.00	12.400	315.900	7352.47	44.30	2.60	-59.77	645968.74	435003.22	32°11'42.218"N	103°51'41.252"W	13.47	
7385.00	17.400	316.700	7382.42	52.27	8.36	-65.27	645963.24	435008.98	32°11'42.275"N	103°51'41.316"W	16.14	
7417.00	22.300	317.700	7412.51	63.12	16.34	-72.64	645955.87	435016.96	32°11'42.354"N	103°51'41.401"W	15.35	
7448.00	27.000	318.400	7440.68	76.02	25.96	-81.28	645947.24	435026.58	32°11'42.450"N	103°51'41.501"W	15.19	
7478.00	31.000	319.300	7466.91	90.53	36.91	-90.84	645937.67	435037.53	32°11'42.559"N	103°51'41.612"W	13.41	
7509.00	34.600	318.100	7492.96	107.27	49.52	-101.93	645926.59	435050.14	32°11'42.684"N	103°51'41.741"W	11.80	
7541.00	38.600	317.000	7518.65	126.33	63.59	-114.81	645913.71	435064.21	32°11'42.824"N	103°51'41.890"W	12.67	
7573.00	42.700	315.100	7542.92	147.16	78.58	-129.28	645899.23	435079.20	32°11'42.973"N	103°51'42.057"W	13.38	
7604.00	47.800	314.600	7564.74	169.17	94.10	-144.89	645883.63	435094.72	32°11'43.127"N	103°51'42.238"W	16.49	



Actual Wellpath Report

No.326H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.326H SHL
Area	Eddy County, NM	Well	No.326H
Field	Poker Lake Unit	Wellbore	No.326H AWP
Facility	Poker Lake Unit No. 326H		

WELLPATH DATA (156 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
7635.00	52.900	314.900	7584.52	193.03	110.90	-161.83	645866.69	435111.51	32°11'43.294"N	103°51'42.434"W	16.47	
7666.00	55.900	315.600	7602.56	218.23	128.80	-179.58	645848.95	435129.41	32°11'43.472"N	103°51'42.640"W	9.85	
7697.00	57.900	316.200	7619.49	244.19	147.45	-197.65	645830.88	435148.06	32°11'43.657"N	103°51'42.849"W	6.65	
7728.00	60.600	316.100	7635.34	270.82	166.66	-216.10	645812.42	435167.27	32°11'43.848"N	103°51'43.063"W	8.71	
7760.00	64.000	315.900	7650.21	299.15	187.04	-235.78	645792.75	435187.65	32°11'44.051"N	103°51'43.291"W	10.64	
7791.00	66.900	315.400	7663.09	327.34	207.20	-255.49	645773.04	435207.81	32°11'44.251"N	103°51'43.519"W	9.47	
7822.00	69.800	314.500	7674.52	356.15	227.55	-275.88	645752.65	435228.16	32°11'44.453"N	103°51'43.756"W	9.74	
7853.00	73.400	314.900	7684.31	385.56	248.24	-296.78	645731.75	435248.84	32°11'44.659"N	103°51'43.998"W	11.68	
7884.00	76.200	315.400	7692.44	415.47	269.45	-317.88	645710.65	435270.05	32°11'44.870"N	103°51'44.242"W	9.17	
7915.00	78.500	315.800	7699.22	445.71	291.06	-339.04	645689.49	435291.66	32°11'45.084"N	103°51'44.487"W	7.53	
7946.00	81.600	316.300	7704.58	476.23	313.04	-360.23	645668.31	435313.64	32°11'45.303"N	103°51'44.733"W	10.13	
7977.00	85.100	316.400	7708.17	507.01	335.31	-381.48	645647.06	435335.91	32°11'45.524"N	103°51'44.979"W	11.29	
8008.00	87.000	315.900	7710.30	537.92	357.62	-402.90	645625.63	435358.21	32°11'45.746"N	103°51'45.227"W	6.34	
8039.00	89.400	316.400	7711.28	568.89	379.96	-424.37	645604.17	435380.55	32°11'45.968"N	103°51'45.476"W	7.91	
8069.00	90.800	316.400	7711.23	598.88	401.68	-445.06	645583.48	435402.28	32°11'46.184"N	103°51'45.715"W	4.67	
8146.00	90.600	316.600	7710.28	675.84	457.53	-498.05	645530.49	435458.12	32°11'46.739"N	103°51'46.329"W	0.37	
8242.00	90.100	317.600	7709.70	771.75	527.85	-563.40	645465.15	435528.44	32°11'47.437"N	103°51'47.086"W	1.16	
8336.00	90.500	317.600	7709.21	865.63	597.27	-626.79	645401.77	435597.85	32°11'48.127"N	103°51'47.820"W	0.43	
8429.00	89.300	316.100	7709.37	958.56	665.11	-690.39	645338.17	435665.69	32°11'48.801"N	103°51'48.557"W	2.07	
8523.00	91.500	316.000	7708.71	1052.53	732.78	-755.62	645272.94	435733.35	32°11'49.473"N	103°51'49.313"W	2.34	
8617.00	91.500	316.500	7706.25	1146.46	800.66	-820.60	645207.97	435801.23	32°11'50.148"N	103°51'50.065"W	0.53	
8711.00	90.500	313.500	7704.61	1240.43	867.11	-887.05	645141.52	435867.67	32°11'50.808"N	103°51'50.835"W	3.36	
8805.00	90.300	312.700	7703.95	1334.39	931.34	-955.68	645072.89	435931.89	32°11'51.447"N	103°51'51.631"W	0.88	
8900.00	91.100	315.200	7702.79	1429.37	997.26	-1024.07	645004.51	435997.81	32°11'52.102"N	103°51'52.423"W	2.76	
8993.00	91.000	316.500	7701.09	1522.33	1063.98	-1088.83	644939.75	436064.52	32°11'52.765"N	103°51'53.173"W	1.40	
9087.00	89.800	316.100	7700.43	1616.29	1131.93	-1153.77	644874.82	436132.47	32°11'53.440"N	103°51'53.926"W	1.35	
9181.00	90.000	316.500	7700.60	1710.26	1199.89	-1218.71	644809.88	436200.43	32°11'54.116"N	103°51'54.678"W	0.48	
9275.00	90.700	316.800	7700.02	1804.20	1268.24	-1283.24	644745.36	436268.78	32°11'54.795"N	103°51'55.425"W	0.81	
9369.00	91.700	316.200	7698.05	1898.13	1336.41	-1347.93	644680.67	436336.94	32°11'55.472"N	103°51'56.175"W	1.24	
9463.00	90.700	314.700	7696.09	1992.10	1403.38	-1413.86	644614.75	436403.91	32°11'56.138"N	103°51'56.938"W	1.92	
9557.00	91.500	315.900	7694.28	2086.08	1470.18	-1479.96	644548.65	436470.70	32°11'56.802"N	103°51'57.704"W	1.53	
9651.00	89.900	314.600	7693.13	2180.06	1536.93	-1546.13	644482.49	436537.45	32°11'57.465"N	103°51'58.471"W	2.19	
9744.00	90.100	315.400	7693.13	2273.06	1602.69	-1611.89	644416.73	436603.20	32°11'58.118"N	103°51'59.233"W	0.89	
9838.00	90.400	315.700	7692.72	2367.05	1669.79	-1677.72	644350.91	436670.30	32°11'58.785"N	103°52'00.000"W	0.45	
9932.00	91.400	316.500	7691.25	2461.01	1737.52	-1742.89	644285.74	436738.02	32°11'59.458"N	103°52'00.751"W	1.36	
10026.00	89.400	314.600	7690.59	2554.98	1804.61	-1808.71	644219.93	436805.11	32°12'00.125"N	103°52'01.513"W	2.93	
10120.00	90.100	315.700	7691.00	2648.98	1871.25	-1875.00	644153.64	436871.74	32°12'00.787"N	103°52'02.281"W	1.39	
10214.00	91.000	318.300	7690.10	2742.89	1939.99	-1939.10	644089.55	436940.48	32°12'01.470"N	103°52'03.024"W	2.93	
10308.00	89.500	314.900	7689.69	2836.82	2008.27	-2003.67	644024.98	437008.76	32°12'02.149"N	103°52'03.772"W	3.95	
10401.00	90.200	315.700	7689.93	2929.82	2074.38	-2069.09	643959.57	437074.85	32°12'02.806"N	103°52'04.530"W	1.14	
10495.00	91.100	316.400	7688.86	3023.78	2142.05	-2134.32	643894.34	437142.52	32°12'03.478"N	103°52'05.285"W	1.21	
10589.00	90.900	313.900	7687.22	3117.76	2208.67	-2200.60	643828.06	437209.14	32°12'04.140"N	103°52'06.053"W	2.67	
10683.00	89.100	311.500	7687.22	3211.69	2272.41	-2269.67	643758.99	437272.88	32°12'04.774"N	103°52'06.854"W	3.19	
10777.00	90.500	310.200	7687.55	3305.47	2333.89	-2340.77	643687.90	437334.35	32°12'05.385"N	103°52'07.678"W	2.03	
10870.00	90.300	311.400	7686.90	3398.25	2394.66	-2411.17	643617.51	437395.11	32°12'05.990"N	103°52'08.494"W	1.31	



Actual Wellpath Report

No.326H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.326H SHL
Area	Eddy County, NM	Well	No.326H
Field	Poker Lake Unit	Wellbore	No.326H AWB
Facility	Poker Lake Unit No. 326H		

WELLPATH DATA (156 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
10964.00	90.000	310.800	7686.66	3492.06	2456.45	-2482.00	643546.68	437456.90	32°12'06.604"N	103°52'09.316"W	0.71	
11058.00	91.100	312.200	7685.75	3585.91	2518.73	-2552.40	643476.29	437519.18	32°12'07.223"N	103°52'10.132"W	1.89	
11152.00	90.400	314.500	7684.52	3679.86	2583.25	-2620.74	643407.95	437583.69	32°12'07.865"N	103°52'10.924"W	2.56	
11245.00	91.800	315.500	7682.74	3772.84	2648.99	-2686.49	643342.20	437649.43	32°12'08.518"N	103°52'11.686"W	1.85	
11339.00	89.600	312.200	7681.59	3866.81	2714.10	-2754.26	643274.44	437714.53	32°12'09.165"N	103°52'12.471"W	4.22	
11433.00	91.300	316.700	7680.85	3960.77	2779.90	-2821.34	643207.36	437780.33	32°12'09.819"N	103°52'13.249"W	5.12	
11527.00	89.500	314.500	7680.19	4054.75	2847.05	-2887.10	643141.61	437847.48	32°12'10.487"N	103°52'14.010"W	3.02	
11621.00	89.300	313.600	7681.18	4148.74	2912.41	-2954.66	643074.05	437912.83	32°12'11.136"N	103°52'14.793"W	0.98	
11715.00	90.600	314.300	7681.26	4242.73	2977.64	-3022.33	643006.39	437978.06	32°12'11.785"N	103°52'15.578"W	1.57	
11809.00	91.100	315.200	7679.87	4336.72	3043.81	-3089.08	642939.64	438044.22	32°12'12.442"N	103°52'16.351"W	1.10	
11903.00	92.500	316.200	7676.91	4430.65	3111.05	-3154.70	642874.03	438111.46	32°12'13.110"N	103°52'17.111"W	1.83	
11997.00	91.900	313.200	7673.30	4524.57	3177.11	-3221.46	642807.28	438177.52	32°12'13.767"N	103°52'17.885"W	3.25	
12091.00	91.100	312.000	7670.84	4618.47	3240.72	-3290.62	642738.11	438241.11	32°12'14.399"N	103°52'18.687"W	1.53	
12185.00	90.900	313.100	7669.20	4712.39	3304.27	-3359.86	642668.88	438304.67	32°12'15.031"N	103°52'19.489"W	1.19	
12278.00	92.200	313.600	7666.69	4805.33	3368.09	-3427.46	642601.28	438368.48	32°12'15.665"N	103°52'20.273"W	1.50	
12372.00	93.500	315.000	7662.01	4899.20	3433.65	-3494.65	642534.10	438434.04	32°12'16.317"N	103°52'21.052"W	2.03	
12466.00	93.000	317.700	7656.68	4993.01	3501.55	-3559.42	642469.33	438501.93	32°12'16.992"N	103°52'21.802"W	2.92	
12560.00	92.800	319.400	7651.93	5086.67	3571.92	-3621.57	642407.19	438572.29	32°12'17.691"N	103°52'22.522"W	1.82	
12654.00	93.900	319.300	7646.43	5180.20	3643.11	-3682.69	642346.07	438643.48	32°12'18.398"N	103°52'23.230"W	1.18	
12672.00	94.000	318.400	7645.19	5198.11	3656.63	-3694.51	642334.25	438657.00	32°12'18.532"N	103°52'23.366"W	5.02	
12720.00	94.000	318.400	7641.85	5245.90	3692.44	-3726.30	642302.46	438692.81	32°12'18.888"N	103°52'23.735"W	0.00	Proj to Bit



Actual Wellpath Report

No.326H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No.326H SHL
Area	Eddy County, NM	Well	No.326H
Field	Poker Lake Unit	Wellbore	No.326H AWB
Facility	Poker Lake Unit No. 326H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No.326H PBHL		7656.00	3807.07	-3844.99	642183.78	438807.43	32°12'20.027"N	103°52'25.110"W	point
No.326H PBHL Rev.A		7656.00	3666.42	-3702.95	642325.81	438666.79	32°12'18.629"N	103°52'23.464"W	point
No.326H PBHL Rev.B		7656.00	3688.94	-3725.69	642303.07	438689.31	32°12'18.853"N	103°52'23.728"W	point
No.326H Target #2		7688.00	2075.60	-2096.28	643932.37	437076.08	32°12'02.819"N	103°52'04.846"W	point
No.326H Target #1		7706.00	1139.82	-1151.18	644877.41	436140.36	32°11'53.518"N	103°51'53.895"W	point

WELLPATH COMPOSITION - Ref Wellbore: No.326H AWB - Ref Wellpath: No.326H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7196.00	Generic gyro - northseeking (Standard)	GyroData Gyros <100-7196>	No.326H AWB
7196.00	12720.00	NaviTrak (Standard)	MWD NaviTrak <7228-XXXX>	No.326H AWB