



BOPCO, L.P.

Location Eddy County, NM
Field JRU Project
Facility JRU No. 124H

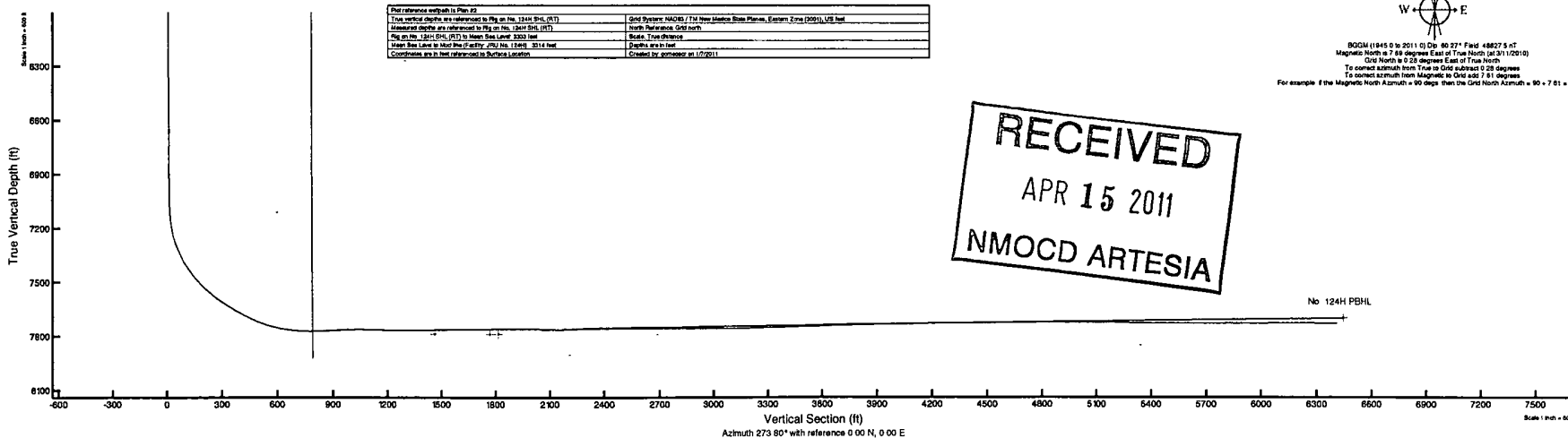
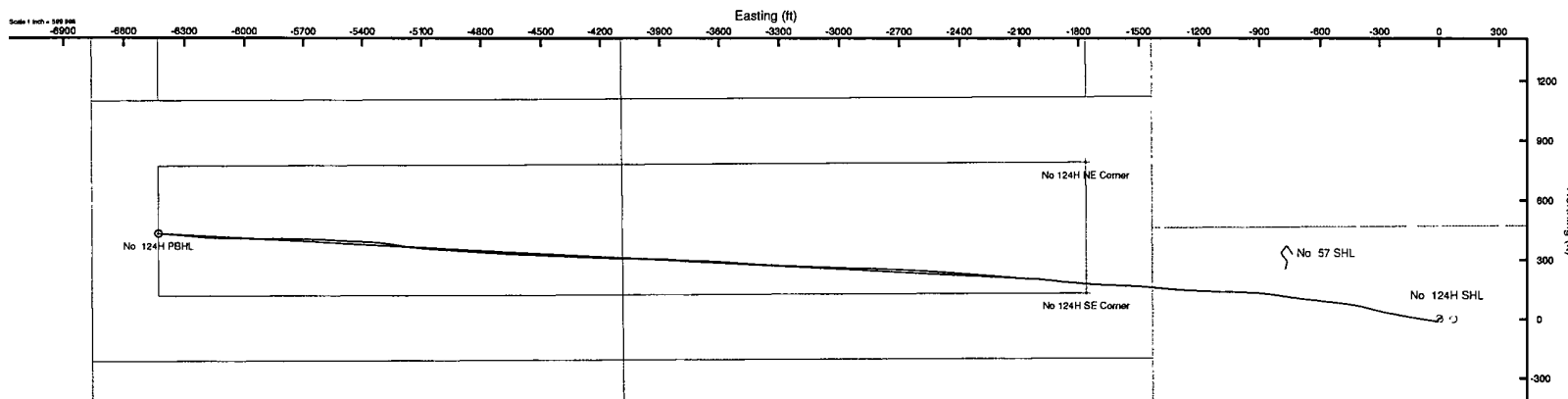
Slot No. 124H SHL
Well No. 124H
Wellbore No. 124H PWB

30-015-38113



INTEQ

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)
Tie On	9500.00	89.750	273.220	7762.29	201.62	-2037.39	0.00
Proj to Bat	9595.00	89.750	273.220	7762.71	206.96	-2132.24	0.00
EOB	9721.19	93.500	272.700	7759.13	213.47	-2258.19	3.00
TARGET LINE	9858.38	90.766	272.932	7754.02	220.20	-2395.10	2.00
No. 124H PBLH	13898.62	90.766	272.932	7700.00	426.83	-6429.69	0.00





Actual Wellpath Report

No. 124H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 124H SHL
Area	Eddy County, NM	Well	No. 124H
Field	JRU Project	Wellbore	No. 124H AWB
Facility	JRU No. 124H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Gomeoscr
Scale	0.99994	Report Generated	1/7/2011 at 8:45:15 AM
Convergence at slot	0.28° East	Database/Source file	WA Midland/No. 124H_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	704952.43	475092.57	32°18'17.970"N	103°48'13.556"W
Facility Reference Pt			704952.43	475092.57	32°18'17.970"N	103°48'13.556"W
Field Reference Pt			697621.65	485218.03	32°19'58.517"N	103°49'38.415"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 124H SHL (RT) to GL	19.00ft
Horizontal Reference Pt	Surface Location	Rig on No. 124H SHL (RT) to Mean Sea Level	3333.00ft
Vertical Reference Pt	Rig on No. 124H SHL (RT)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 124H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	273.80°



Actual Wellpath Report

No. 124H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 124H SHL
Area	Eddy County, NM	Well	No. 124H
Field	JRU Project	Wellbore	No. 124H AWB
Facility	JRU No. 124H		

WELLPATH DATA (198 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	68.530	0.00	0.00	0.00	0.00	704952.43	475092.57	32°18'17.970"N	103°48'13.556"W	0.00	
100.00	0.660	68.530	100.00	-0.52	0.21	0.54	704952.97	475092.78	32°18'17.972"N	103°48'13.550"W	0.66	
200.00	0.670	84.520	199.99	-1.62	0.48	1.65	704954.08	475093.05	32°18'17.975"N	103°48'13.537"W	0.19	
300.00	0.930	85.940	299.98	-3.00	0.59	3.05	704955.48	475093.16	32°18'17.976"N	103°48'13.521"W	0.26	
400.00	0.970	87.620	399.97	-4.65	0.68	4.70	704957.13	475093.25	32°18'17.977"N	103°48'13.502"W	0.05	
500.00	0.940	74.530	499.95	-6.26	0.94	6.34	704958.77	475093.51	32°18'17.979"N	103°48'13.483"W	0.22	
600.00	0.780	65.850	599.94	-7.64	1.43	7.75	704960.18	475094.00	32°18'17.984"N	103°48'13.466"W	0.21	
700.00	0.520	61.650	699.94	-8.62	1.93	8.77	704961.20	475094.50	32°18'17.989"N	103°48'13.454"W	0.26	
800.00	0.460	47.120	799.93	-9.28	2.42	9.46	704961.89	475094.99	32°18'17.994"N	103°48'13.446"W	0.14	
900.00	0.460	64.270	899.93	-9.91	2.86	10.12	704962.55	475095.43	32°18'17.998"N	103°48'13.438"W	0.14	
1000.00	0.540	61.430	999.93	-10.65	3.26	10.89	704963.32	475095.83	32°18'18.002"N	103°48'13.429"W	0.08	
1100.00	0.590	46.490	1099.92	-11.40	3.84	11.68	704964.11	475096.41	32°18'18.008"N	103°48'13.420"W	0.16	
1200.00	0.500	45.840	1199.92	-12.04	4.50	12.37	704964.80	475097.07	32°18'18.014"N	103°48'13.412"W	0.09	
1300.00	0.500	42.400	1299.91	-12.61	5.13	12.97	704965.40	475097.70	32°18'18.020"N	103°48'13.405"W	0.03	
1400.00	0.520	36.570	1399.91	-13.12	5.82	13.54	704965.97	475098.38	32°18'18.027"N	103°48'13.398"W	0.06	
1500.00	0.500	34.630	1499.90	-13.59	6.54	14.06	704966.49	475099.11	32°18'18.034"N	103°48'13.392"W	0.03	
1600.00	0.420	30.850	1599.90	-13.98	7.21	14.49	704966.92	475099.78	32°18'18.041"N	103°48'13.387"W	0.09	
1700.00	0.360	24.320	1699.90	-14.26	7.81	14.81	704967.24	475100.38	32°18'18.047"N	103°48'13.383"W	0.07	
1800.00	0.270	18.340	1799.90	-14.43	8.32	15.01	704967.44	475100.89	32°18'18.052"N	103°48'13.381"W	0.10	
1900.00	0.190	26.110	1899.90	-14.55	8.70	15.16	704967.59	475101.27	32°18'18.056"N	103°48'13.379"W	0.09	
2000.00	0.110	9.650	1999.90	-14.62	8.94	15.25	704967.68	475101.51	32°18'18.058"N	103°48'13.378"W	0.09	
2100.00	0.250	328.960	2099.90	-14.51	9.22	15.15	704967.58	475101.79	32°18'18.061"N	103°48'13.379"W	0.18	
2200.00	0.230	306.880	2199.89	-14.22	9.53	14.88	704967.31	475102.10	32°18'18.064"N	103°48'13.383"W	0.09	
2300.00	0.290	275.740	2299.89	-13.80	9.67	14.47	704966.90	475102.24	32°18'18.065"N	103°48'13.387"W	0.15	
2400.00	0.270	294.800	2399.89	-13.32	9.80	14.00	704966.43	475102.37	32°18'18.067"N	103°48'13.393"W	0.09	
2500.00	0.230	278.830	2499.89	-12.90	9.93	13.59	704966.02	475102.50	32°18'18.068"N	103°48'13.398"W	0.08	
2600.00	0.190	280.350	2599.89	-12.54	9.99	13.23	704965.66	475102.56	32°18'18.069"N	103°48'13.402"W	0.04	
2700.00	0.140	226.350	2699.89	-12.29	9.93	12.98	704965.41	475102.50	32°18'18.068"N	103°48'13.405"W	0.16	
2800.00	0.150	287.960	2799.89	-12.08	9.89	12.76	704965.19	475102.46	32°18'18.068"N	103°48'13.407"W	0.15	
2900.00	0.150	259.850	2899.89	-11.83	9.91	12.51	704964.94	475102.48	32°18'18.068"N	103°48'13.410"W	0.07	
3000.00	0.150	216.440	2999.89	-11.63	9.78	12.30	704964.73	475102.35	32°18'18.067"N	103°48'13.413"W	0.11	
3100.00	0.140	272.730	3099.89	-11.44	9.68	12.11	704964.53	475102.25	32°18'18.066"N	103°48'13.415"W	0.14	
3200.00	0.230	227.660	3199.89	-11.18	9.55	11.83	704964.26	475102.12	32°18'18.064"N	103°48'13.418"W	0.16	
3300.00	0.220	177.050	3299.89	-11.06	9.22	11.70	704964.13	475101.79	32°18'18.061"N	103°48'13.420"W	0.19	
3400.00	0.450	129.930	3399.89	-11.40	8.78	12.01	704964.44	475101.35	32°18'18.057"N	103°48'13.416"W	0.34	
3500.00	0.670	126.920	3499.88	-12.21	8.18	12.78	704965.21	475100.75	32°18'18.051"N	103°48'13.407"W	0.22	
3600.00	0.700	130.700	3599.87	-13.18	7.43	13.71	704966.14	475100.00	32°18'18.043"N	103°48'13.396"W	0.05	
3700.00	0.600	243.800	3699.87	-13.22	6.80	13.70	704966.13	475099.37	32°18'18.037"N	103°48'13.396"W	1.09	
3800.00	0.730	241.150	3799.86	-12.23	6.26	12.67	704965.10	475098.83	32°18'18.032"N	103°48'13.408"W	0.13	
3900.00	0.740	226.660	3899.86	-11.25	5.51	11.64	704964.07	475098.08	32°18'18.024"N	103°48'13.420"W	0.19	
4000.00	0.650	229.880	3999.85	-10.41	4.70	10.74	704963.17	475097.27	32°18'18.016"N	103°48'13.431"W	0.10	
4100.00	0.650	228.990	4099.84	-9.60	3.96	9.88	704962.31	475096.53	32°18'18.009"N	103°48'13.441"W	0.01	
4200.00	0.610	228.450	4199.84	-8.82	3.24	9.05	704961.48	475095.81	32°18'18.002"N	103°48'13.451"W	0.04	
4300.00	0.650	232.000	4299.83	-8.02	2.53	8.21	704960.64	475095.10	32°18'17.995"N	103°48'13.461"W	0.06	
4400.00	0.620	235.650	4399.82	-7.17	1.88	7.31	704959.74	475094.45	32°18'17.989"N	103°48'13.471"W	0.05	



Actual Wellpath Report

No. 124H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, L.P.	Slot	No. 124H SHL
Area	Eddy County, NM	Well	No. 124H
Field	JRU Project	Wellbore	No. 124H AWB
Facility	JRU No. 124H		

WELLPATH DATA (198 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4500.00	0.600	230.310	4499.82	-6.37	1.24	6.46	704958.89	475093.81	32°18'17.982"N	103°48'13.481"W	0.06	
4600.00	0.630	239.830	4599.81	-5.53	0.63	5.59	704958.02	475093.20	32°18'17.976"N	103°48'13.491"W	0.11	
4700.00	0.620	242.220	4699.81	-4.62	0.10	4.63	704957.06	475092.67	32°18'17.971"N	103°48'13.503"W	0.03	
4800.00	0.650	247.590	4799.80	-3.65	-0.37	3.63	704956.06	475092.20	32°18'17.967"N	103°48'13.514"W	0.07	
4900.00	0.660	254.860	4899.79	-2.59	-0.73	2.55	704954.98	475091.84	32°18'17.963"N	103°48'13.527"W	0.08	
5000.00	0.460	260.610	4999.79	-1.66	-0.95	1.60	704954.03	475091.62	32°18'17.961"N	103°48'13.538"W	0.21	
5100.00	0.610	264.260	5099.79	-0.74	-1.07	0.67	704953.10	475091.50	32°18'17.960"N	103°48'13.549"W	0.15	
5200.00	0.540	269.890	5199.78	0.25	-1.12	-0.33	704952.10	475091.45	32°18'17.959"N	103°48'13.560"W	0.09	
5300.00	0.680	259.060	5299.77	1.30	-1.24	-1.38	704951.05	475091.33	32°18'17.958"N	103°48'13.573"W	0.18	
5400.00	0.580	260.410	5399.77	2.37	-1.43	-2.47	704949.96	475091.14	32°18'17.956"N	103°48'13.585"W	0.10	
5500.00	0.290	250.840	5499.77	3.09	-1.60	-3.20	704949.23	475090.97	32°18'17.955"N	103°48'13.594"W	0.30	
5600.00	0.270	241.740	5599.76	3.52	-1.80	-3.65	704948.78	475090.77	32°18'17.953"N	103°48'13.599"W	0.05	
5700.00	0.240	245.030	5699.76	3.91	-2.00	-4.05	704948.38	475090.57	32°18'17.951"N	103°48'13.604"W	0.03	
5800.00	0.320	200.030	5799.76	4.17	-2.35	-4.33	704948.10	475090.22	32°18'17.947"N	103°48'13.607"W	0.23	
5900.00	0.460	190.850	5899.76	4.30	-3.00	-4.50	704947.93	475089.57	32°18'17.941"N	103°48'13.609"W	0.15	
6000.00	0.420	176.260	5999.76	4.30	-3.76	-4.56	704947.87	475088.81	32°18'17.933"N	103°48'13.610"W	0.12	
6100.00	0.370	197.430	6099.75	4.32	-4.44	-4.63	704947.80	475088.13	32°18'17.927"N	103°48'13.611"W	0.15	
6200.00	0.460	190.790	6199.75	4.45	-5.14	-4.80	704947.63	475087.43	32°18'17.920"N	103°48'13.613"W	0.10	
6300.00	0.570	194.570	6299.75	4.59	-6.01	-5.00	704947.43	475086.56	32°18'17.911"N	103°48'13.615"W	0.12	
6400.00	0.710	198.840	6399.74	4.85	-7.08	-5.33	704947.10	475085.49	32°18'17.901"N	103°48'13.619"W	0.15	
6500.00	0.710	198.840	6499.73	5.17	-8.26	-5.73	704946.70	475084.31	32°18'17.889"N	103°48'13.624"W	0.00	
6600.00	0.970	208.900	6599.72	5.69	-9.58	-6.34	704946.09	475082.99	32°18'17.876"N	103°48'13.631"W	0.30	
6700.00	0.990	211.040	6699.71	6.44	-11.06	-7.19	704945.24	475081.51	32°18'17.861"N	103°48'13.641"W	0.04	
6800.00	0.850	202.430	6799.70	7.07	-12.49	-7.92	704944.51	475080.08	32°18'17.847"N	103°48'13.649"W	0.20	
6900.00	0.930	205.970	6899.68	7.62	-13.91	-8.56	704943.87	475078.67	32°18'17.833"N	103°48'13.657"W	0.10	
6985.00	0.980	188.140	6984.67	7.93	-15.24	-8.96	704943.47	475077.33	32°18'17.820"N	103°48'13.662"W	0.35	
7034.00	1.050	200.760	7033.66	8.10	-16.08	-9.18	704943.25	475076.49	32°18'17.812"N	103°48'13.664"W	0.48	
7066.00	1.090	239.690	7065.66	8.43	-16.51	-9.55	704942.88	475076.06	32°18'17.807"N	103°48'13.669"W	2.23	
7097.00	3.120	270.880	7096.64	9.52	-16.64	-10.65	704941.79	475075.93	32°18'17.806"N	103°48'13.681"W	7.29	
7129.00	5.190	276.560	7128.55	11.84	-16.46	-12.95	704939.48	475076.11	32°18'17.808"N	103°48'13.708"W	6.59	
7161.00	7.670	282.010	7160.35	15.39	-15.85	-16.48	704935.95	475076.72	32°18'17.814"N	103°48'13.749"W	7.97	
7192.00	10.150	286.610	7190.97	20.11	-14.64	-21.12	704931.31	475077.93	32°18'17.826"N	103°48'13.803"W	8.32	
7224.00	11.730	284.810	7222.39	26.05	-13.01	-26.97	704925.46	475079.57	32°18'17.843"N	103°48'13.871"W	5.05	
7256.00	16.200	280.330	7253.44	33.68	-11.37	-34.51	704917.92	475081.20	32°18'17.860"N	103°48'13.959"W	14.36	
7288.00	18.950	277.550	7283.94	43.30	-9.89	-44.05	704908.38	475082.68	32°18'17.875"N	103°48'14.070"W	8.98	
7319.00	21.210	277.040	7313.05	53.93	-8.54	-54.61	704897.82	475084.03	32°18'17.889"N	103°48'14.193"W	7.31	
7351.00	25.380	279.600	7342.44	66.53	-6.69	-67.12	704885.31	475085.88	32°18'17.907"N	103°48'14.339"W	13.41	
7383.00	27.470	278.550	7371.10	80.71	-4.45	-81.19	704871.25	475088.12	32°18'17.930"N	103°48'14.503"W	6.69	
7414.00	30.890	281.100	7398.16	95.74	-1.85	-96.07	704856.37	475090.72	32°18'17.957"N	103°48'14.676"W	11.74	
7446.00	32.510	278.170	7425.38	102.46	0.95	-102.64	704839.79	475093.52	32°18'17.985"N	103°48'14.869"W	6.98	
7478.00	35.800	280.680	7451.86	130.33	3.91	-130.36	704822.08	475096.48	32°18'18.015"N	103°48'15.075"W	11.18	
7509.00	38.860	281.170	7476.51	148.98	7.48	-148.81	704803.62	475100.05	32°18'18.052"N	103°48'15.290"W	9.92	
7541.00	41.360	279.840	7500.98	169.46	11.23	-169.08	704783.36	475103.80	32°18'18.090"N	103°48'15.526"W	8.26	
7572.00	44.630	282.000	7523.65	190.43	15.24	-189.83	704762.61	475107.81	32°18'18.130"N	103°48'15.767"W	11.57	
7605.00	47.540	280.990	7546.54	213.98	19.98	-213.13	704739.32	475112.55	32°18'18.178"N	103°48'16.038"W	9.09	



Actual Wellpath Report

No. 124H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 124H SHL
Area	Eddy County, NM	Well	No. 124H
Field	JRU Project	Wellbore	No. 124H AWB
Facility	JRU No. 124H		

WELLPATH DATA (198 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7636.00	49.790	278.690	7567.02	237.13	23.95	-236.06	704716.39	475116.51	32°18'18.219"N	103°48'16.305"W	9.15	
7668.00	51.720	280.300	7587.26	261.78	28.04	-260.50	704691.95	475120.61	32°18'18.261"N	103°48'16.590"W	7.18	
7700.00	56.050	285.460	7606.12	287.28	33.83	-285.67	704666.78	475126.40	32°18'18.319"N	103°48'16.883"W	18.78	
7731.00	55.970	284.650	7623.46	312.49	40.50	-310.49	704641.96	475133.07	32°18'18.386"N	103°48'17.172"W	2.18	
7762.00	57.130	284.310	7640.54	337.91	46.97	-335.53	704616.92	475139.54	32°18'18.452"N	103°48'17.463"W	3.85	
7792.00	59.960	284.210	7656.20	363.07	53.27	-360.33	704592.12	475145.84	32°18'18.515"N	103°48'17.752"W	9.44	
7824.00	60.970	283.130	7671.97	390.50	59.85	-387.39	704565.07	475152.42	32°18'18.581"N	103°48'18.066"W	4.31	
7856.00	62.310	281.040	7687.17	418.36	65.74	-414.92	704537.54	475158.31	32°18'18.641"N	103°48'18.387"W	7.11	
7887.00	64.220	278.210	7701.12	445.90	70.37	-442.21	704510.25	475162.93	32°18'18.688"N	103°48'18.705"W	10.22	
7918.00	67.090	277.080	7713.90	474.08	74.12	-470.20	704482.26	475166.68	32°18'18.727"N	103°48'19.030"W	9.84	
7949.00	69.020	277.710	7725.48	502.77	77.82	-498.71	704453.75	475170.39	32°18'18.765"N	103°48'19.362"W	6.50	
7979.00	70.390	275.780	7735.89	530.87	81.12	-526.66	704425.81	475173.69	32°18'18.799"N	103°48'19.688"W	7.57	
8011.00	73.740	276.160	7745.74	561.29	84.29	-556.93	704395.53	475176.86	32°18'18.832"N	103°48'20.040"W	10.53	
8042.00	76.960	276.610	7753.58	591.25	87.63	-586.73	704365.73	475180.19	32°18'18.866"N	103°48'20.387"W	10.48	
8073.00	80.420	277.200	7759.66	621.60	91.28	-616.91	704335.56	475183.85	32°18'18.904"N	103°48'20.739"W	11.32	
8105.00	80.950	275.910	7764.84	653.14	94.89	-648.28	704304.19	475187.45	32°18'18.941"N	103°48'21.104"W	4.31	
8137.00	83.770	277.310	7769.09	684.81	98.54	-679.78	704272.70	475191.10	32°18'18.979"N	103°48'21.471"W	9.82	
8169.00	86.330	277.810	7771.85	716.62	102.73	-711.38	704241.10	475195.30	32°18'19.022"N	103°48'21.839"W	8.15	
8201.00	88.920	278.540	7773.18	748.50	107.28	-743.02	704209.45	475199.84	32°18'19.068"N	103°48'22.207"W	8.41	
8231.00	90.030	278.820	7773.45	778.39	110.81	-772.68	704179.80	475204.37	32°18'19.114"N	103°48'22.552"W	3.82	
8263.00	91.030	278.910	7773.16	810.26	116.74	-804.29	704148.19	475209.30	32°18'19.165"N	103°48'22.921"W	3.14	
8294.00	91.900	277.920	7772.37	841.15	121.27	-834.95	704117.53	475213.83	32°18'19.211"N	103°48'23.277"W	4.25	
8325.00	93.060	277.290	7771.02	872.05	125.37	-865.65	704086.84	475217.93	32°18'19.253"N	103°48'23.635"W	4.26	
8356.00	93.270	275.560	7769.31	902.97	128.83	-896.40	704056.08	475221.40	32°18'19.289"N	103°48'23.993"W	5.61	
8387.00	92.810	273.010	7767.67	933.92	131.15	-927.27	704025.22	475223.71	32°18'19.313"N	103°48'24.352"W	8.35	
8419.00	92.920	271.410	7766.07	965.87	132.38	-959.21	703993.28	475224.94	32°18'19.327"N	103°48'24.724"W	5.01	
8451.00	92.400	271.330	7764.58	997.80	133.14	-991.16	703961.33	475225.70	32°18'19.336"N	103°48'25.097"W	1.64	
8482.00	90.650	271.220	7763.76	1028.76	133.83	-1022.14	703930.35	475226.39	32°18'19.344"N	103°48'25.458"W	5.66	
8513.00	87.670	270.940	7764.21	1059.72	134.42	-1053.13	703899.37	475226.98	32°18'19.352"N	103°48'25.819"W	9.66	
8544.00	87.060	270.920	7765.64	1090.65	134.92	-1084.09	703868.40	475227.48	32°18'19.358"N	103°48'26.179"W	1.97	
8576.00	89.170	272.350	7766.69	1122.61	135.83	-1116.06	703836.44	475228.39	32°18'19.369"N	103°48'26.552"W	7.96	
8607.00	89.530	273.000	7767.04	1153.60	137.28	-1147.02	703805.48	475229.84	32°18'19.385"N	103°48'26.912"W	2.40	
8639.00	89.600	272.990	7767.29	1185.59	138.95	-1178.98	703773.52	475231.51	32°18'19.403"N	103°48'27.285"W	0.22	
8670.00	89.100	272.170	7767.64	1216.58	140.35	-1209.95	703742.56	475232.91	32°18'19.418"N	103°48'27.645"W	3.10	
8701.00	88.830	272.750	7768.20	1247.57	141.68	-1240.91	703711.60	475234.24	32°18'19.433"N	103°48'28.006"W	2.06	
8733.00	89.170	273.550	7768.76	1279.56	143.43	-1272.86	703679.65	475236.00	32°18'19.452"N	103°48'28.378"W	2.72	
8763.00	89.560	274.360	7769.09	1309.56	145.50	-1302.79	703649.73	475238.06	32°18'19.474"N	103°48'28.727"W	3.00	
8793.00	90.430	275.210	7769.09	1339.56	148.01	-1332.68	703619.83	475240.57	32°18'19.500"N	103°48'29.075"W	4.05	
8823.00	90.520	275.500	7768.84	1369.54	150.81	-1362.55	703589.97	475243.37	32°18'19.529"N	103°48'29.423"W	1.01	
8854.00	90.980	275.500	7768.44	1400.53	153.78	-1393.40	703559.11	475246.34	32°18'19.560"N	103°48'29.782"W	1.48	
8886.00	91.390	275.200	7767.78	1432.51	156.76	-1425.26	703527.26	475249.32	32°18'19.591"N	103°48'30.153"W	1.59	
8917.00	90.890	275.740	7767.16	1463.49	159.71	-1456.11	703496.41	475252.27	32°18'19.622"N	103°48'30.512"W	2.37	
8949.00	91.430	272.750	7766.51	1495.48	162.08	-1488.01	703464.51	475254.64	32°18'19.647"N	103°48'30.884"W	9.49	
8981.00	92.000	273.310	7765.55	1527.46	163.77	-1519.95	703432.57	475256.33	32°18'19.665"N	103°48'31.256"W	2.50	
9012.00	90.940	272.600	7764.76	1558.45	165.37	-1550.90	703401.63	475257.93	32°18'19.682"N	103°48'31.616"W	4.12	



Actual Wellpath Report

No. 124H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 124H SHL
Area	Eddy County, NM	Well	No. 124H
Field	JRU Project	Wellbore	No. 124H AWB
Facility	JRU No. 124H		

WELLPATH DATA (198 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9043.00	91.280	272.190	7764.16	1589.43	166.67	-1581.87	703370.66	475259.23	32°18'19.696"N	103°48'31.977"W	1.72	
9074.00	90.680	272.490	7763.63	1620.42	167.93	-1612.84	703339.69	475260.49	32°18'19.710"N	103°48'32.338"W	2.16	
9105.00	89.810	272.300	7763.49	1651.41	169.23	-1643.81	703308.72	475261.79	32°18'19.725"N	103°48'32.699"W	2.87	
9136.00	90.650	272.560	7763.37	1682.40	170.54	-1674.78	703277.75	475263.10	32°18'19.739"N	103°48'33.059"W	2.84	
9167.00	90.710	273.630	7763.00	1713.39	172.21	-1705.73	703246.80	475264.77	32°18'19.757"N	103°48'33.420"W	3.46	
9199.00	90.650	274.110	7762.62	1745.39	174.37	-1737.66	703214.88	475266.93	32°18'19.780"N	103°48'33.792"W	1.51	
9225.00	90.560	274.900	7762.35	1771.39	176.42	-1763.57	703188.97	475268.98	32°18'19.802"N	103°48'34.094"W	3.06	
9309.00	90.150	275.050	7761.83	1855.37	183.70	-1847.26	703105.29	475276.26	32°18'19.878"N	103°48'35.068"W	0.52	
9341.00	89.850	275.450	7761.83	1887.36	186.63	-1879.12	703073.43	475279.19	32°18'19.908"N	103°48'35.439"W	1.56	
9372.00	89.850	276.740	7761.91	1918.33	189.92	-1909.95	703042.60	475282.48	32°18'19.942"N	103°48'35.798"W	4.16	
9404.00	89.880	276.390	7761.98	1950.29	193.58	-1941.74	703010.81	475286.14	32°18'19.980"N	103°48'36.168"W	1.10	
9500.00	89.750	273.220	7762.29	2046.27	201.62	-2037.39	702915.17	475294.18	32°18'20.064"N	103°48'37.282"W	3.30	
9531.00	89.820	273.720	7762.41	2077.27	203.50	-2068.33	702884.23	475296.05	32°18'20.084"N	103°48'37.643"W	1.63	
9564.00	89.850	273.970	7762.50	2110.27	205.71	-2101.25	702851.31	475298.27	32°18'20.108"N	103°48'38.026"W	0.76	
9595.00	90.180	274.110	7762.50	2141.26	207.89	-2132.18	702820.39	475300.45	32°18'20.131"N	103°48'38.386"W	1.16	
9627.00	90.890	274.260	7762.20	2173.26	210.23	-2164.09	702788.47	475302.78	32°18'20.156"N	103°48'38.758"W	2.27	
9659.00	90.740	274.130	7761.74	2205.26	212.57	-2196.00	702756.57	475305.12	32°18'20.180"N	103°48'39.130"W	0.62	
9690.00	90.890	274.400	7761.30	2236.25	214.87	-2226.91	702725.66	475307.43	32°18'20.205"N	103°48'39.490"W	1.00	
9722.00	90.860	274.680	7760.81	2268.25	217.41	-2258.81	702693.76	475309.96	32°18'20.231"N	103°48'39.861"W	0.88	
9786.00	90.860	274.470	7759.85	2332.23	222.51	-2322.60	702629.98	475315.07	32°18'20.285"N	103°48'40.604"W	0.33	
9880.00	90.800	274.310	7758.49	2426.22	229.70	-2416.31	702536.27	475322.26	32°18'20.360"N	103°48'41.696"W	0.18	
9976.00	90.400	274.140	7757.49	2522.21	236.78	-2512.04	702440.54	475329.33	32°18'20.435"N	103°48'42.811"W	0.45	
10071.00	90.460	272.490	7756.77	2617.20	242.27	-2606.88	702345.71	475334.82	32°18'20.494"N	103°48'43.915"W	1.74	
10167.00	89.820	272.500	7756.54	2713.18	246.45	-2702.79	702249.81	475339.00	32°18'20.540"N	103°48'45.032"W	0.67	
10263.00	89.720	271.940	7756.92	2809.14	250.17	-2798.71	702153.89	475342.72	32°18'20.581"N	103°48'46.150"W	0.59	
10359.00	89.850	271.430	7757.28	2905.07	252.99	-2894.67	702057.94	475345.54	32°18'20.614"N	103°48'47.268"W	0.55	
10455.00	89.780	272.110	7757.59	3001.01	255.96	-2990.63	701961.99	475348.51	32°18'20.648"N	103°48'48.385"W	0.71	
10551.00	90.800	272.220	7757.11	3096.97	259.58	-3086.55	701866.07	475352.14	32°18'20.688"N	103°48'49.503"W	1.07	
10647.00	91.360	272.320	7755.30	3192.92	263.38	-3182.46	701770.17	475355.94	32°18'20.731"N	103°48'50.620"W	0.59	
10743.00	91.260	272.090	7753.10	3288.86	267.08	-3278.37	701674.27	475359.63	32°18'20.772"N	103°48'51.737"W	0.26	
10837.00	91.660	273.050	7750.71	3382.80	271.29	-3372.24	701580.40	475363.84	32°18'20.818"N	103°48'52.831"W	1.11	
10934.00	91.480	274.000	7748.05	3479.76	277.25	-3469.02	701483.63	475369.80	32°18'20.882"N	103°48'53.958"W	1.00	
11030.00	91.390	274.590	7745.65	3575.73	284.44	-3564.72	701387.93	475376.99	32°18'20.957"N	103°48'55.073"W	0.62	
11125.00	91.510	270.960	7743.24	3670.67	289.04	-3659.56	701293.10	475381.59	32°18'21.007"N	103°48'56.177"W	3.82	
11221.00	91.480	272.990	7740.74	3766.58	292.34	-3755.47	701197.20	475384.90	32°18'21.045"N	103°48'57.295"W	2.11	
11317.00	91.540	273.700	7738.21	3862.55	297.94	-3851.27	701101.40	475390.49	32°18'21.105"N	103°48'58.410"W	0.74	
11412.00	91.820	270.790	7735.42	3957.46	301.66	-3946.14	701006.53	475394.21	32°18'21.146"N	103°48'59.516"W	3.08	
11508.00	90.990	270.070	7733.07	4053.26	302.38	-4042.11	700910.57	475394.93	32°18'21.158"N	103°49'00.634"W	1.14	
11603.00	91.200	271.790	7731.25	4148.12	303.92	-4137.08	700815.61	475396.48	32°18'21.177"N	103°49'01.740"W	1.82	
11699.00	90.250	272.120	7730.04	4244.06	307.20	-4233.01	700719.68	475399.75	32°18'21.214"N	103°49'02.858"W	1.05	
11793.00	90.400	272.500	7729.50	4338.03	310.99	-4326.93	700625.76	475403.54	32°18'21.256"N	103°49'03.952"W	0.43	
11889.00	90.650	272.630	7728.62	4434.01	315.28	-4422.83	700529.87	475407.83	32°18'21.303"N	103°49'05.069"W	0.29	
11986.00	90.740	272.250	7727.45	4530.97	319.41	-4519.74	700432.97	475411.96	32°18'21.349"N	103°49'06.198"W	0.40	
12081.00	90.220	272.830	7726.65	4625.94	323.62	-4614.64	700338.08	475416.17	32°18'21.395"N	103°49'07.303"W	0.82	
12177.00	90.280	273.390	7726.23	4721.94	328.83	-4710.50	700242.22	475421.38	32°18'21.451"N	103°49'08.420"W	0.59	



Actual Wellpath Report

No. 124H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 124H SHL
Area	Eddy County, NM	Well	No. 124H
Field	JRU Project	Wellbore	No. 124H AWB
Facility	JRU No. 124H		

WELLPATH DATA (198 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12273.00	90.430	273.720	7725.64	4817.93	334.78	-4806.31	700146.42	475427.33	32°18'21.514"N	103°49'09.536"W	0.38	
12370.00	89.720	273.210	7725.51	4914.93	340.65	-4903.13	700049.60	475433.19	32°18'21.577"N	103°49'10.663"W	0.90	
12465.00	90.120	273.190	7725.64	5009.92	345.95	-4997.99	699954.76	475438.50	32°18'21.634"N	103°49'11.768"W	0.42	
12562.00	90.000	274.580	7725.54	5106.92	352.52	-5094.76	699857.99	475445.07	32°18'21.704"N	103°49'12.895"W	1.44	
12645.00	88.890	278.760	7726.35	5189.79	362.16	-5177.18	699775.58	475454.71	32°18'21.803"N	103°49'13.855"W	5.21	
12742.00	88.460	277.950	7728.59	5286.46	376.25	-5273.12	699679.64	475468.80	32°18'21.947"N	103°49'14.972"W	0.95	
12837.00	89.690	272.690	7730.12	5381.38	385.05	-5367.66	699585.10	475477.60	32°18'22.038"N	103°49'16.073"W	5.69	
12934.00	89.970	272.280	7730.41	5478.35	389.26	-5464.57	699488.20	475481.80	32°18'22.085"N	103°49'17.202"W	0.51	
13028.00	89.940	273.050	7730.49	5572.33	393.63	-5558.47	699394.31	475486.17	32°18'22.132"N	103°49'18.296"W	0.82	
13124.00	90.000	271.630	7730.54	5668.30	397.55	-5654.39	699298.40	475490.09	32°18'22.176"N	103°49'19.413"W	1.48	
13220.00	89.970	271.390	7730.56	5764.22	400.08	-5750.35	699202.44	475492.62	32°18'22.205"N	103°49'20.531"W	0.25	
13316.00	89.970	269.860	7730.61	5860.07	401.12	-5846.34	699106.45	475493.67	32°18'22.220"N	103°49'21.649"W	1.59	
13412.00	90.150	270.180	7730.51	5955.87	401.16	-5942.34	699010.46	475493.70	32°18'22.225"N	103°49'22.768"W	0.38	
13509.00	90.340	270.830	7730.10	6052.70	402.01	-6039.34	698913.47	475494.56	32°18'22.238"N	103°49'23.898"W	0.70	
13604.00	90.250	270.790	7729.61	6147.57	403.36	-6134.33	698818.48	475495.90	32°18'22.256"N	103°49'25.004"W	0.10	
13699.00	89.540	275.950	7729.78	6242.54	408.94	-6229.13	698723.69	475501.48	32°18'22.315"N	103°49'26.109"W	5.48	
13796.00	89.630	275.280	7730.48	6339.49	418.43	-6325.66	698627.16	475510.97	32°18'22.414"N	103°49'27.233"W	0.70	
13868.00	89.630	275.280	7730.95	6411.46	425.05	-6397.35	698555.47	475517.60	32°18'22.483"N	103°49'28.068"W	0.00	Proj to Bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 124H PBHL		7700.00	426.83	-6429.69	698523.14	475519.37	32°18'22.502"N	103°49'28.444"W	point
No. 124H HLP		7789.00	340.85	-1441.62	703510.90	475433.40	32°18'21.413"N	103°48'30.333"W	point
No.124H NE Corner		7789.00	789.58	-1763.94	703188.60	475882.10	32°18'25.869"N	103°48'34.063"W	point
No.124H SE Corner		7789.00	129.64	-1760.54	703192.00	475222.20	32°18'19.339"N	103°48'34.061"W	point

WELLPATH COMPOSITION

Ref Wellbore: No. 124H AWB

Ref Wellpath: No. 124H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6985.00	Generic gyro - northseeking (Standard)	Gyro	No. 124H AWB
6985.00	13868.00	NaviTrak (Standard)	MWD	No. 124H AWB