



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#44 CANNON 1N-9HZ(521'FNL & 402'FEL,SEC.33)
Area	COLORADO	Well	CANNON 1N-9HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	CANNON 1N-9HZ AWB
Facility	SEC.33-T3N-R65W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 13 North, US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Painsetr
Scale	0.999610	Report Generated	9/27/2017 at 12:54 PM
Convergence at slot	0.22° East	Database/Source file	WA_DEN_Anadarko_Defn/CANNON_1N-9HZ_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	1438.63	1699.26	1735200.19	14595279.05	40°11'15.860"N	104°39'38.225"W
Facility Reference Pt			1733507.01	14593834.61	40°11'01.644"N	104°40'00.120"W
Field Reference Pt			1698235.31	14552047.82	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	PD 564 (26') (RT) to Facility Vertical Datum	4862.00ft
Horizontal Reference Pt	Slot	PD 564 (26') (RT) to Mean Sea Level	4862.00ft
Vertical Reference Pt	PD 564 (26') (RT)	PD 564 (26') (RT) to Mud Line at Slot (SLOT#44 CANNON 1N-9HZ(521'FNL & 402'FEL,SEC.33))	4862.00ft
MD Reference Pt	PD 564 (26') (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	180.67°

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Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	CANNON 1N-9HZ AWP
Facility	SEC.33-T3N-R65W		

WELLPATH DATA (243 stations) † = interpolated/extrapolated station												
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	113.860	0.00	0.00	0.00	0.00	1735200.19	14595279.05	40°11'15.860"N	104°39'38.225"W	0.00	
26.00	0.000	113.860	26.00	0.00	0.00	0.00	1735200.19	14595279.05	40°11'15.860"N	104°39'38.225"W	0.00	
137.00	0.440	113.860	137.00	0.17	-0.17	0.39	1735200.58	14595278.88	40°11'15.858"N	104°39'38.220"W	0.40	FIRST SURFACE MWD+IFR1 SURVEY
169.00	0.570	77.920	169.00	0.18	-0.19	0.66	1735200.85	14595278.86	40°11'15.858"N	104°39'38.217"W	1.05	
200.00	0.620	31.160	200.00	0.00	-0.01	0.90	1735201.09	14595279.04	40°11'15.860"N	104°39'38.213"W	1.53	
232.00	0.920	42.850	231.99	-0.34	0.32	1.16	1735201.35	14595279.38	40°11'15.863"N	104°39'38.210"W	1.05	
264.00	0.970	13.140	263.99	-0.79	0.78	1.40	1735201.59	14595279.83	40°11'15.868"N	104°39'38.207"W	1.52	
296.00	1.230	7.780	295.98	-1.40	1.38	1.50	1735201.69	14595280.43	40°11'15.874"N	104°39'38.206"W	0.87	
327.00	1.850	10.420	326.97	-2.22	2.20	1.64	1735201.82	14595281.25	40°11'15.882"N	104°39'38.204"W	2.01	
359.00	1.890	8.480	358.95	-3.25	3.23	1.81	1735201.99	14595282.29	40°11'15.892"N	104°39'38.202"W	0.23	
391.00	2.550	4.790	390.93	-4.49	4.46	1.95	1735202.12	14595283.52	40°11'15.904"N	104°39'38.200"W	2.11	
422.00	2.810	9.010	421.90	-5.92	5.90	2.12	1735202.30	14595284.95	40°11'15.918"N	104°39'38.198"W	1.05	
454.00	3.210	4.090	453.85	-7.60	7.57	2.31	1735202.48	14595286.62	40°11'15.935"N	104°39'38.195"W	1.49	
486.00	3.740	2.680	485.79	-9.53	9.50	2.42	1735202.58	14595288.56	40°11'15.954"N	104°39'38.194"W	1.68	
518.00	4.170	6.550	517.72	-11.73	11.70	2.61	1735202.75	14595290.76	40°11'15.976"N	104°39'38.191"W	1.58	
550.00	4.970	7.870	549.62	-14.27	14.23	2.93	1735203.07	14595293.29	40°11'16.001"N	104°39'38.187"W	2.52	
580.00	5.890	6.370	579.48	-17.09	17.05	3.28	1735203.40	14595296.10	40°11'16.028"N	104°39'38.183"W	3.10	
612.00	6.280	7.950	611.30	-20.46	20.41	3.70	1735203.82	14595299.47	40°11'16.062"N	104°39'38.177"W	1.33	
644.00	7.030	8.480	643.08	-24.13	24.08	4.23	1735204.33	14595303.14	40°11'16.098"N	104°39'38.170"W	2.35	
676.00	7.870	8.040	674.81	-28.25	28.19	4.83	1735204.91	14595307.25	40°11'16.139"N	104°39'38.163"W	2.63	
707.00	8.390	8.750	705.50	-32.59	32.53	5.47	1735205.54	14595311.58	40°11'16.181"N	104°39'38.155"W	1.71	
739.00	9.140	11.470	737.13	-37.40	37.33	6.33	1735206.38	14595316.38	40°11'16.229"N	104°39'38.143"W	2.68	
771.00	9.760	12.090	768.69	-42.55	42.47	7.40	1735207.43	14595321.53	40°11'16.280"N	104°39'38.130"W	1.96	
802.00	10.330	10.940	799.22	-47.86	47.77	8.48	1735208.49	14595326.83	40°11'16.332"N	104°39'38.116"W	1.95	
834.00	10.460	9.800	830.69	-53.55	53.45	9.52	1735209.50	14595332.51	40°11'16.388"N	104°39'38.102"W	0.76	
866.00	10.990	10.060	862.13	-59.43	59.31	10.55	1735210.51	14595338.38	40°11'16.446"N	104°39'38.089"W	1.66	
897.00	11.650	10.330	892.53	-65.43	65.30	11.62	1735211.56	14595344.37	40°11'16.505"N	104°39'38.075"W	2.14	
929.00	12.130	9.540	923.84	-71.94	71.80	12.76	1735212.67	14595350.86	40°11'16.569"N	104°39'38.061"W	1.58	
960.00	12.830	9.710	954.11	-78.56	78.40	13.88	1735213.77	14595357.47	40°11'16.635"N	104°39'38.046"W	2.26	
992.00	13.800	9.890	985.25	-85.83	85.66	15.14	1735215.00	14595364.73	40°11'16.707"N	104°39'38.030"W	3.03	
1024.00	14.460	9.890	1016.28	-93.54	93.36	16.48	1735216.31	14595372.43	40°11'16.783"N	104°39'38.013"W	2.06	
1055.00	15.510	10.330	1046.23	-101.45	101.25	17.89	1735217.69	14595380.32	40°11'16.861"N	104°39'37.995"W	3.41	
1087.00	15.560	9.710	1077.06	-109.91	109.69	19.38	1735219.14	14595388.77	40°11'16.944"N	104°39'37.975"W	0.54	
1118.00	15.730	7.780	1106.91	-118.18	117.95	20.65	1735220.38	14595397.03	40°11'17.026"N	104°39'37.959"W	1.77	
1150.00	16.080	8.310	1137.69	-126.88	126.63	21.87	1735221.58	14595405.71	40°11'17.111"N	104°39'37.943"W	1.18	
1182.00	16.440	7.430	1168.41	-135.77	135.51	23.10	1735222.77	14595414.59	40°11'17.199"N	104°39'37.927"W	1.36	
1213.00	17.310	8.660	1198.07	-144.69	144.42	24.36	1735223.99	14595423.50	40°11'17.287"N	104°39'37.911"W	3.03	
1245.00	17.400	8.220	1228.61	-154.15	153.86	25.76	1735225.36	14595432.94	40°11'17.380"N	104°39'37.893"W	0.50	
1277.00	18.240	7.690	1259.08	-163.86	163.56	27.12	1735226.68	14595442.64	40°11'17.476"N	104°39'37.876"W	2.67	
1309.00	18.680	7.950	1289.43	-173.92	173.60	28.50	1735228.02	14595452.68	40°11'17.575"N	104°39'37.858"W	1.40	
1340.00	18.980	6.990	1318.77	-183.85	183.52	29.80	1735229.28	14595462.61	40°11'17.674"N	104°39'37.841"W	1.39	
1372.00	19.030	6.460	1349.03	-194.21	193.87	31.02	1735230.46	14595472.96	40°11'17.776"N	104°39'37.825"W	0.56	
1403.00	18.850	8.130	1378.35	-204.21	203.85	32.29	1735231.70	14595482.94	40°11'17.874"N	104°39'37.809"W	1.84	
1435.00	19.160	8.570	1408.61	-214.54	214.16	33.81	1735233.17	14595493.25	40°11'17.976"N	104°39'37.789"W	1.07	
1467.00	19.340	7.510	1438.82	-225.00	224.60	35.28	1735234.60	14595503.69	40°11'18.080"N	104°39'37.770"W	1.23	

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Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	CANNON 1N-9HZ AWB
Facility	SEC.33-T3N-R65W		

WELLPATH DATA (243 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
1498.00	18.410	8.570	1468.15	-234.94	234.53	36.68	1735235.97	14595513.63	40°11'18.178"N	104°39'37.752"W	3.20	
1530.00	18.280	9.800	1498.52	-244.90	244.47	38.29	1735237.53	14595523.57	40°11'18.276"N	104°39'37.732"W	1.28	
1562.00	18.900	10.330	1528.85	-254.97	254.52	40.07	1735239.28	14595533.62	40°11'18.375"N	104°39'37.709"W	2.01	
1594.00	18.940	10.680	1559.13	-265.19	264.72	41.96	1735241.13	14595543.82	40°11'18.476"N	104°39'37.684"W	0.38	
1625.00	18.720	11.380	1588.47	-275.03	274.54	43.88	1735243.01	14595553.65	40°11'18.573"N	104°39'37.660"W	1.02	
1656.00	18.980	9.620	1617.80	-284.90	284.39	45.70	1735244.79	14595563.50	40°11'18.670"N	104°39'37.636"W	2.02	
1688.00	18.850	10.330	1648.08	-295.14	294.60	47.50	1735246.55	14595573.72	40°11'18.771"N	104°39'37.613"W	0.83	
1719.00	17.710	11.910	1677.51	-304.70	304.14	49.37	1735248.38	14595583.26	40°11'18.866"N	104°39'37.589"W	4.01	
1751.00	16.390	12.960	1708.10	-313.89	313.31	51.39	1735250.36	14595592.43	40°11'18.956"N	104°39'37.563"W	4.24	
1783.00	16.130	11.560	1738.82	-322.66	322.06	53.29	1735252.23	14595601.19	40°11'19.043"N	104°39'37.538"W	1.47	
1815.00	15.820	9.890	1769.59	-331.33	330.71	54.93	1735253.84	14595609.84	40°11'19.128"N	104°39'37.517"W	1.73	
1847.00	16.260	10.770	1800.34	-340.05	339.41	56.52	1735255.39	14595618.54	40°11'19.214"N	104°39'37.497"W	1.57	LAST SURFACE MWD+IFR1 SURVEY
1933.00	17.080	14.770	1882.73	-364.15	363.45	61.99	1735260.77	14595642.59	40°11'19.452"N	104°39'37.426"W	1.64	FIRST BHGE MWD+IFR1+MSA SURVEY
2022.00	16.420	13.710	1967.95	-389.08	388.31	68.30	1735266.98	14595667.47	40°11'19.697"N	104°39'37.345"W	0.82	
2112.00	18.410	14.760	2053.82	-415.26	414.42	74.94	1735273.52	14595693.58	40°11'19.955"N	104°39'37.259"W	2.24	
2201.00	17.790	13.510	2138.42	-442.15	441.23	81.69	1735280.17	14595720.41	40°11'20.220"N	104°39'37.172"W	0.82	
2290.00	19.460	12.330	2222.76	-469.93	468.93	88.04	1735286.40	14595748.13	40°11'20.494"N	104°39'37.091"W	1.92	
2380.00	18.940	11.070	2307.75	-498.98	497.91	94.04	1735292.30	14595777.12	40°11'20.780"N	104°39'37.013"W	0.74	
2469.00	18.390	9.610	2392.07	-527.05	525.93	99.16	1735297.30	14595805.15	40°11'21.057"N	104°39'36.947"W	0.81	
2559.00	17.490	9.140	2477.69	-554.45	553.28	103.68	1735301.72	14595832.50	40°11'21.328"N	104°39'36.889"W	1.01	
2648.00	18.580	9.650	2562.32	-581.69	580.46	108.18	1735306.11	14595859.69	40°11'21.596"N	104°39'36.831"W	1.24	
2738.00	17.790	8.750	2647.82	-609.46	608.19	112.67	1735310.50	14595887.42	40°11'21.870"N	104°39'36.773"W	0.93	
2827.00	18.180	12.110	2732.48	-636.53	635.20	117.65	1735315.38	14595914.45	40°11'22.137"N	104°39'36.709"W	1.25	
2916.00	17.830	11.650	2817.12	-663.52	662.12	123.32	1735320.93	14595941.38	40°11'22.403"N	104°39'36.636"W	0.42	
3006.00	17.490	14.640	2902.88	-690.17	688.70	129.52	1735327.03	14595967.97	40°11'22.666"N	104°39'36.556"W	1.08	
3096.00	18.720	14.050	2988.42	-717.34	715.80	136.44	1735333.85	14595995.08	40°11'22.934"N	104°39'36.467"W	1.38	
3185.00	18.360	13.170	3072.80	-744.92	743.30	143.11	1735340.40	14596022.60	40°11'23.205"N	104°39'36.381"W	0.51	
3275.00	17.530	11.910	3158.42	-772.06	770.37	149.13	1735346.32	14596049.68	40°11'23.473"N	104°39'36.303"W	1.02	
3364.00	17.670	14.660	3243.26	-798.31	796.55	155.32	1735352.41	14596075.87	40°11'23.731"N	104°39'36.224"W	0.95	
3454.00	17.170	13.850	3329.13	-824.50	822.66	161.95	1735358.94	14596102.00	40°11'23.990"N	104°39'36.138"W	0.62	
3543.00	15.560	12.110	3414.52	-848.99	847.09	167.60	1735364.49	14596126.44	40°11'24.231"N	104°39'36.065"W	1.89	
3633.00	17.450	11.450	3500.81	-874.08	872.12	172.81	1735369.61	14596151.48	40°11'24.478"N	104°39'35.998"W	2.11	
3722.00	18.110	10.660	3585.56	-900.81	898.79	178.02	1735374.71	14596178.16	40°11'24.742"N	104°39'35.931"W	0.79	
3812.00	18.640	9.320	3670.97	-928.81	926.73	182.94	1735379.52	14596206.11	40°11'25.018"N	104°39'35.868"W	0.75	
3901.00	17.290	7.700	3755.63	-956.00	953.88	187.02	1735383.49	14596233.26	40°11'25.286"N	104°39'35.815"W	1.62	
3991.00	16.060	6.750	3841.84	-981.65	979.49	190.27	1735386.65	14596258.88	40°11'25.539"N	104°39'35.773"W	1.40	
4080.00	15.390	5.530	3927.51	-1005.66	1003.47	192.86	1735389.14	14596282.86	40°11'25.776"N	104°39'35.740"W	0.84	
4169.00	13.130	5.770	4013.76	-1027.50	1025.29	195.01	1735391.21	14596304.67	40°11'25.992"N	104°39'35.712"W	2.54	
4259.00	12.170	5.740	4101.58	-1047.13	1044.90	196.99	1735393.11	14596324.28	40°11'26.186"N	104°39'35.687"W	1.07	
4348.00	9.760	9.870	4188.95	-1063.92	1061.67	199.22	1735395.28	14596341.05	40°11'26.351"N	104°39'35.658"W	2.85	
4438.00	6.730	10.390	4278.01	-1076.65	1074.37	201.48	1735397.49	14596353.76	40°11'26.477"N	104°39'35.629"W	3.37	
4527.00	5.460	4.980	4366.50	-1086.02	1083.72	202.79	1735398.76	14596363.11	40°11'26.569"N	104°39'35.612"W	1.56	
4617.00	3.040	11.810	4456.25	-1092.63	1090.33	203.65	1735399.59	14596369.72	40°11'26.635"N	104°39'35.601"W	2.74	
4706.00	0.630	5.060	4545.20	-1095.43	1093.12	204.17	1735400.11	14596372.51	40°11'26.662"N	104°39'35.594"W	2.71	
4795.00	0.870	15.770	4634.19	-1096.57	1094.26	204.40	1735400.33	14596373.65	40°11'26.673"N	104°39'35.591"W	0.31	

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4885.00	1.220	13.570	4724.18	-1098.17	1095.85	204.81	1735400.74	14596375.24	40°11'26.689"N	104°39'35.586"W	0.39	
4999.00	0.850	54.130	4838.16	-1099.85	1097.52	205.78	1735401.70	14596376.92	40°11'26.706"N	104°39'35.573"W	0.70	
5089.00	1.350	48.580	4928.14	-1100.96	1098.62	207.12	1735403.03	14596378.02	40°11'26.717"N	104°39'35.556"W	0.57	
5178.00	0.150	121.820	5017.13	-1101.60	1099.25	208.00	1735403.91	14596378.65	40°11'26.723"N	104°39'35.545"W	1.48	
5268.00	0.060	230.710	5107.13	-1101.51	1099.16	208.06	1735403.98	14596378.56	40°11'26.722"N	104°39'35.544"W	0.20	
5358.00	0.190	29.790	5197.13	-1101.61	1099.26	208.10	1735404.01	14596378.66	40°11'26.723"N	104°39'35.543"W	0.27	
5447.00	0.360	356.250	5286.13	-1102.02	1099.66	208.16	1735404.07	14596379.07	40°11'26.727"N	104°39'35.543"W	0.26	
5537.00	0.580	348.020	5376.13	-1102.75	1100.39	208.04	1735403.95	14596379.80	40°11'26.734"N	104°39'35.544"W	0.26	
5626.00	0.630	351.420	5465.12	-1103.67	1101.32	207.88	1735403.78	14596380.72	40°11'26.743"N	104°39'35.546"W	0.07	
5716.00	0.620	359.340	5555.12	-1104.64	1102.29	207.80	1735403.70	14596381.69	40°11'26.753"N	104°39'35.547"W	0.10	
5805.00	0.910	6.970	5644.11	-1105.83	1103.48	207.88	1735403.77	14596382.88	40°11'26.765"N	104°39'35.546"W	0.34	
5895.00	1.560	13.610	5734.09	-1107.73	1105.38	208.25	1735404.14	14596384.78	40°11'26.783"N	104°39'35.542"W	0.74	
5984.00	1.540	10.940	5823.06	-1110.09	1107.73	208.77	1735404.64	14596387.13	40°11'26.807"N	104°39'35.535"W	0.08	
6074.00	1.660	12.290	5913.02	-1112.56	1110.19	209.27	1735405.14	14596389.59	40°11'26.831"N	104°39'35.528"W	0.14	
6163.00	1.260	21.250	6001.99	-1114.74	1112.36	209.90	1735405.76	14596391.77	40°11'26.852"N	104°39'35.520"W	0.52	
6253.00	1.110	22.870	6091.97	-1116.47	1114.09	210.60	1735406.45	14596393.49	40°11'26.869"N	104°39'35.511"W	0.17	
6342.00	0.920	25.510	6180.96	-1117.92	1115.52	211.24	1735407.09	14596394.93	40°11'26.884"N	104°39'35.503"W	0.22	
6400.00†	1.434	198.462	6238.95	-1117.65	1115.26	211.21	1735407.06	14596394.67	40°11'26.881"N	104°39'35.503"W	4.05	KOP
6432.00	2.730	199.770	6270.93	-1116.55	1114.16	210.83	1735406.68	14596393.57	40°11'26.870"N	104°39'35.508"W	4.05	
6521.00	13.680	170.570	6358.91	-1104.14	1101.74	211.84	1735407.74	14596381.16	40°11'26.747"N	104°39'35.495"W	12.78	
6611.00	19.610	171.280	6445.10	-1078.74	1076.29	215.88	1735411.87	14596355.74	40°11'26.496"N	104°39'35.443"W	6.59	
6700.00	23.860	177.100	6527.76	-1046.02	1043.53	219.05	1735415.17	14596323.00	40°11'26.172"N	104°39'35.402"W	5.35	
6790.00	28.790	179.050	6608.41	-1006.16	1003.66	220.33	1735416.60	14596283.15	40°11'25.778"N	104°39'35.386"W	5.56	
6879.00	38.030	180.700	6682.62	-957.22	954.71	220.35	1735416.81	14596234.22	40°11'25.294"N	104°39'35.386"W	10.43	
6969.00	42.720	181.710	6751.17	-898.94	896.44	219.10	1735415.78	14596175.97	40°11'24.719"N	104°39'35.402"W	5.26	
7058.00	48.790	180.660	6813.23	-835.22	832.73	217.82	1735414.74	14596112.28	40°11'24.089"N	104°39'35.418"W	6.87	
7148.00	53.370	179.530	6869.76	-765.22	762.73	217.72	1735414.91	14596042.30	40°11'23.397"N	104°39'35.420"W	5.18	
7238.00	59.030	181.790	6919.81	-690.47	687.98	216.81	1735414.29	14595967.59	40°11'22.659"N	104°39'35.431"W	6.63	
7327.00	63.290	182.290	6962.73	-612.55	610.09	214.03	1735411.81	14595889.71	40°11'21.889"N	104°39'35.467"W	4.81	
7417.00	70.920	181.470	6997.72	-529.72	527.29	211.33	1735409.42	14595806.93	40°11'21.071"N	104°39'35.502"W	8.52	
7506.00	84.110	184.400	7016.92	-443.10	440.71	206.83	1735405.26	14595720.37	40°11'20.215"N	104°39'35.560"W	15.16	
7596.00	86.550	184.590	7024.25	-353.60	351.29	199.80	1735398.58	14595630.96	40°11'19.331"N	104°39'35.650"W	2.72	LANDING (170'FNL & 202'FEL,SEC.33) 40.1887032 -104.6599029
7685.00	89.380	183.170	7027.41	-264.81	262.56	193.79	1735392.90	14595542.25	40°11'18.455"N	104°39'35.728"W	3.56	
7775.00	89.320	182.970	7028.43	-174.89	172.70	188.97	1735388.43	14595452.40	40°11'17.567"N	104°39'35.790"W	0.23	
7835.00†	89.380	182.843	7029.11	-114.94	112.78	185.92	1735385.61	14595392.49	40°11'16.974"N	104°39'35.829"W	0.23	EXIT RADIUS HEEL (408'FNL & 218'FEL,SEC.33) 40.1880485 -104.6599526
7865.00	89.410	182.780	7029.43	-84.97	82.82	184.45	1735384.26	14595362.54	40°11'16.678"N	104°39'35.848"W	0.23	
7954.00	89.690	182.340	7030.13	3.98	-6.09	180.48	1735380.62	14595273.65	40°11'15.800"N	104°39'35.900"W	0.59	
8044.00	89.510	182.100	7030.76	93.95	-96.02	176.99	1735377.48	14595183.74	40°11'14.911"N	104°39'35.944"W	0.33	
8134.00	89.720	181.690	7031.36	183.93	-185.97	174.02	1735374.85	14595093.82	40°11'14.022"N	104°39'35.983"W	0.51	
8223.00	89.880	181.970	7031.67	272.91	-274.92	171.17	1735372.35	14595004.89	40°11'13.143"N	104°39'36.019"W	0.36	
8313.00	90.310	181.890	7031.52	362.88	-364.87	168.14	1735369.66	14594914.96	40°11'12.254"N	104°39'36.059"W	0.49	
8403.00	90.680	181.480	7030.75	452.87	-454.83	165.50	1735367.36	14594825.03	40°11'11.365"N	104°39'36.093"W	0.61	
8492.00	88.860	180.550	7031.10	541.86	-543.81	163.92	1735366.13	14594736.08	40°11'10.486"N	104°39'36.113"W	2.30	
8582.00	90.150	180.870	7031.88	631.85	-633.80	162.80	1735365.36	14594646.12	40°11'09.597"N	104°39'36.127"W	1.48	
8672.00	90.740	181.860	7031.18	721.84	-723.77	160.66	1735363.56	14594556.18	40°11'08.708"N	104°39'36.155"W	1.28	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#44 CANNON 1N-9HZ(521'FNL & 402'FEL,SEC.33)
Area	COLORADO	Well	CANNON 1N-9HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	CANNON 1N-9HZ AWP
Facility	SEC.33-T3N-R65W		

WELLPATH DATA (243 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
8761.00	88.920	180.760	7031.45	810.83	-812.74	158.63	1735361.86	14594467.24	40°11'07.829"N	104°39'36.181"W	2.39	
8850.00	88.740	180.810	7033.26	899.81	-901.71	157.41	1735360.98	14594378.30	40°11'06.949"N	104°39'36.197"W	0.21	
8940.00	89.780	178.820	7034.43	989.79	-991.70	157.70	1735361.62	14594288.35	40°11'06.060"N	104°39'36.193"W	2.49	
9029.00	89.480	179.090	7035.00	1078.75	-1080.68	159.32	1735363.58	14594199.41	40°11'05.181"N	104°39'36.172"W	0.45	
9119.00	89.450	178.490	7035.84	1168.70	-1170.66	161.22	1735365.82	14594109.47	40°11'04.292"N	104°39'36.148"W	0.67	
9208.00	89.050	178.490	7037.01	1257.62	-1259.62	163.57	1735368.51	14594020.56	40°11'03.412"N	104°39'36.118"W	0.45	
9298.00	90.890	178.020	7037.05	1347.54	-1349.57	166.31	1735371.59	14593930.65	40°11'02.524"N	104°39'36.082"W	2.11	
9388.00	91.050	178.160	7035.53	1437.44	-1439.51	169.31	1735374.93	14593840.76	40°11'01.635"N	104°39'36.044"W	0.24	
9477.00	91.200	178.470	7033.78	1526.34	-1528.45	171.92	1735377.89	14593751.86	40°11'00.756"N	104°39'36.010"W	0.39	
9567.00	90.620	179.510	7032.35	1616.29	-1618.43	173.51	1735379.82	14593661.93	40°10'59.867"N	104°39'35.989"W	1.32	
9656.00	90.030	179.080	7031.85	1705.26	-1707.42	174.60	1735381.25	14593572.98	40°10'58.987"N	104°39'35.975"W	0.82	
9746.00	89.880	179.280	7031.92	1795.23	-1797.41	175.89	1735382.88	14593483.03	40°10'58.098"N	104°39'35.959"W	0.28	
9835.00	89.820	179.040	7032.15	1884.20	-1886.40	177.20	1735384.53	14593394.08	40°10'57.219"N	104°39'35.942"W	0.28	
9925.00	90.890	180.120	7031.59	1974.18	-1976.39	177.86	1735385.53	14593304.12	40°10'56.329"N	104°39'35.933"W	1.69	
10014.00	91.050	179.970	7030.09	2063.16	-2065.38	177.79	1735385.80	14593215.17	40°10'55.450"N	104°39'35.934"W	0.25	
10104.00	91.260	180.300	7028.27	2153.14	-2155.36	177.57	1735385.93	14593125.23	40°10'54.561"N	104°39'35.937"W	0.43	
10193.00	90.280	181.050	7027.08	2242.13	-2244.35	176.53	1735385.23	14593036.27	40°10'53.681"N	104°39'35.951"W	1.39	
10283.00	90.030	181.320	7026.83	2332.13	-2334.33	174.67	1735383.71	14592946.32	40°10'52.792"N	104°39'35.975"W	0.41	
10372.00	89.350	180.670	7027.31	2421.12	-2423.31	173.12	1735382.50	14592857.37	40°10'51.913"N	104°39'35.995"W	1.06	
10462.00	90.340	181.870	7027.56	2511.11	-2513.28	171.12	1735380.85	14592767.42	40°10'51.024"N	104°39'36.020"W	1.73	
10551.00	90.000	181.720	7027.29	2600.10	-2602.24	168.34	1735378.41	14592678.49	40°10'50.145"N	104°39'36.056"W	0.42	
10641.00	89.600	182.430	7027.61	2690.07	-2692.18	165.08	1735375.49	14592588.57	40°10'49.256"N	104°39'36.098"W	0.91	
10730.00	88.860	181.570	7028.80	2779.04	-2781.12	161.97	1735372.73	14592499.66	40°10'48.377"N	104°39'36.138"W	1.27	
10820.00	88.650	181.200	7030.76	2869.01	-2871.07	159.80	1735370.90	14592409.74	40°10'47.488"N	104°39'36.166"W	0.47	
10910.00	88.710	181.790	7032.83	2958.97	-2961.01	157.45	1735368.90	14592319.82	40°10'46.599"N	104°39'36.196"W	0.66	
10999.00	91.170	181.030	7032.93	3047.96	-3049.98	155.26	1735367.05	14592230.88	40°10'45.720"N	104°39'36.225"W	2.89	
11089.00	91.390	180.480	7030.92	3137.94	-3139.95	154.08	1735366.20	14592140.94	40°10'44.831"N	104°39'36.240"W	0.66	
11178.00	91.660	180.150	7028.55	3226.90	-3228.92	153.59	1735366.06	14592052.01	40°10'43.952"N	104°39'36.246"W	0.48	
11268.00	90.150	181.530	7027.13	3316.89	-3318.89	152.27	1735365.08	14591962.06	40°10'43.063"N	104°39'36.263"W	2.27	
11357.00	90.250	181.160	7026.81	3405.88	-3407.86	150.18	1735363.33	14591873.12	40°10'42.183"N	104°39'36.290"W	0.43	
11447.00	90.220	180.850	7026.45	3495.88	-3497.85	148.60	1735362.10	14591783.16	40°10'41.294"N	104°39'36.311"W	0.35	
11536.00	90.220	180.890	7026.10	3584.87	-3586.84	147.25	1735361.09	14591694.20	40°10'40.415"N	104°39'36.328"W	0.04	
11626.00	90.740	180.640	7025.35	3674.87	-3676.83	146.05	1735360.23	14591604.25	40°10'39.526"N	104°39'36.343"W	0.64	
11715.00	90.990	180.690	7024.01	3763.86	-3765.81	145.01	1735359.54	14591515.29	40°10'38.646"N	104°39'36.357"W	0.29	
11807.00	89.940	180.820	7023.26	3853.86	-3855.86	143.80	1735358.68	14591423.34	40°10'37.737"N	104°39'36.372"W	1.15	
11901.00	89.850	180.700	7023.43	3943.86	-3945.79	142.55	1735357.79	14591329.38	40°10'36.808"N	104°39'36.388"W	0.16	
11993.00	89.880	180.140	7023.65	4033.85	-4035.79	141.88	1735357.47	14591237.42	40°10'35.899"N	104°39'36.397"W	0.61	
12084.00	90.520	180.130	7023.33	4123.85	-4125.79	141.67	1735357.60	14591146.45	40°10'35.000"N	104°39'36.400"W	0.70	
12177.00	90.710	179.850	7022.33	4213.84	-4215.78	141.68	1735357.97	14591053.50	40°10'34.081"N	104°39'36.400"W	0.36	
12267.00	91.110	179.630	7020.90	4303.81	-4305.75	142.09	1735358.72	14590963.55	40°10'33.192"N	104°39'36.394"W	0.51	
12361.00	89.570	180.710	7020.35	4393.80	-4395.74	141.81	1735358.80	14590869.59	40°10'32.263"N	104°39'36.398"W	2.00	
12452.00	90.120	181.040	7020.59	4483.79	-4485.73	140.42	1735357.76	14590778.63	40°10'31.364"N	104°39'36.416"W	0.70	
12544.00	90.430	180.810	7020.15	4573.78	-4575.72	138.94	1735356.63	14590686.68	40°10'30.455"N	104°39'36.435"W	0.42	
12636.00	90.430	180.700	7019.46	4663.77	-4665.71	137.72	1735355.77	14590594.72	40°10'29.546"N	104°39'36.451"W	0.12	
12726.00	90.310	180.350	7018.88	4753.76	-4755.70	136.90	1735355.29	14590504.76	40°10'28.637"N	104°39'36.461"W	0.41	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#44 CANNON 1N-9HZ(521'FNL & 402'FEL,SEC.33)
Area	COLORADO	Well	CANNON 1N-9HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	CANNON 1N-9HZ AWB
Facility	SEC.33-T3N-R65W		

WELLPATH DATA (243 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
12816.00	91.050	180.810	7017.81	4864.79	-4866.71	135.99	1735354.72	14590414.80	40°10'27.767"N	104°39'36.473"W	0.97	
12905.00	89.200	179.570	7017.62	4953.78	-4955.70	135.69	1735354.77	14590325.84	40°10'26.888"N	104°39'36.477"W	2.50	
12995.00	89.380	179.400	7018.73	5043.75	-5045.69	136.50	1735355.92	14590235.89	40°10'25.998"N	104°39'36.466"W	0.28	
13085.00	89.750	179.530	7019.41	5133.73	-5135.69	137.34	1735357.10	14590145.94	40°10'25.109"N	104°39'36.456"W	0.44	
13174.00	89.600	179.010	7019.92	5222.70	-5224.68	138.48	1735358.58	14590056.99	40°10'24.230"N	104°39'36.441"W	0.61	
13264.00	89.540	179.040	7020.60	5312.66	-5314.66	140.01	1735360.45	14589967.04	40°10'23.340"N	104°39'36.421"W	0.07	
13353.00	89.480	179.200	7021.36	5401.63	-5403.65	141.37	1735362.16	14589878.10	40°10'22.461"N	104°39'36.404"W	0.19	
13443.00	90.060	179.350	7021.72	5491.60	-5493.64	142.51	1735363.64	14589788.15	40°10'21.572"N	104°39'36.389"W	0.67	
13532.00	89.290	181.000	7022.22	5580.59	-5582.63	142.24	1735363.71	14589699.19	40°10'20.692"N	104°39'36.393"W	2.05	
13622.00	89.510	180.830	7023.16	5670.59	-5672.62	140.80	1735362.62	14589609.23	40°10'19.803"N	104°39'36.411"W	0.31	
13711.00	90.000	180.310	7023.55	5759.58	-5761.61	139.92	1735362.07	14589520.27	40°10'18.924"N	104°39'36.423"W	0.80	
13801.00	89.320	179.740	7024.08	5849.58	-5851.61	139.88	1735362.38	14589430.31	40°10'18.034"N	104°39'36.423"W	0.99	
13890.00	91.080	182.150	7023.77	5938.56	-5940.59	138.41	1735361.25	14589341.36	40°10'17.155"N	104°39'36.442"W	3.35	
13980.00	90.920	182.120	7022.20	6028.52	-6030.51	135.06	1735358.24	14589251.46	40°10'16.266"N	104°39'36.485"W	0.18	
14069.00	90.490	181.580	7021.10	6117.49	-6119.46	132.19	1735355.71	14589162.54	40°10'15.387"N	104°39'36.522"W	0.78	
14158.00	90.590	181.500	7020.26	6206.48	-6208.42	129.80	1735353.66	14589073.60	40°10'14.508"N	104°39'36.553"W	0.14	
14248.00	90.400	181.010	7019.49	6296.47	-6298.39	127.82	1735352.03	14588983.66	40°10'13.619"N	104°39'36.578"W	0.58	
14337.00	90.280	180.520	7018.96	6385.47	-6387.38	126.64	1735351.18	14588894.70	40°10'12.740"N	104°39'36.594"W	0.57	
14427.00	90.310	180.560	7018.50	6475.47	-6477.38	125.79	1735350.68	14588804.73	40°10'11.850"N	104°39'36.605"W	0.06	
14516.00	89.570	182.020	7018.59	6564.46	-6566.35	123.78	1735349.02	14588715.79	40°10'10.971"N	104°39'36.630"W	1.84	
14606.00	89.540	181.710	7019.29	6654.44	-6656.30	120.86	1735346.43	14588625.86	40°10'10.082"N	104°39'36.668"W	0.35	
14695.00	89.170	181.530	7020.29	6743.42	-6745.26	118.34	1735344.26	14588536.93	40°10'09.203"N	104°39'36.701"W	0.46	
14785.00	89.480	181.290	7021.35	6833.41	-6835.23	116.12	1735342.39	14588446.99	40°10'08.314"N	104°39'36.729"W	0.44	
14874.00	89.690	181.010	7021.99	6922.40	-6924.21	114.34	1735340.94	14588358.04	40°10'07.435"N	104°39'36.752"W	0.39	
14964.00	90.400	181.280	7021.92	7012.40	-7014.19	112.54	1735339.49	14588268.09	40°10'06.546"N	104°39'36.775"W	0.84	
15053.00	90.490	181.140	7021.23	7101.39	-7103.17	110.66	1735337.95	14588179.14	40°10'05.666"N	104°39'36.799"W	0.19	
15143.00	91.260	180.690	7019.86	7191.38	-7193.14	109.22	1735336.86	14588089.19	40°10'04.777"N	104°39'36.818"W	0.99	
15233.00	88.520	181.630	7020.03	7281.36	-7283.12	107.40	1735335.38	14587999.25	40°10'03.888"N	104°39'36.841"W	3.22	
15322.00	88.400	181.880	7022.42	7370.32	-7372.04	104.68	1735333.00	14587910.35	40°10'03.009"N	104°39'36.877"W	0.31	
15412.00	88.210	181.330	7025.08	7460.26	-7461.97	102.16	1735330.82	14587820.45	40°10'02.121"N	104°39'36.909"W	0.65	
15501.00	88.250	181.140	7027.83	7549.22	-7550.90	100.24	1735329.24	14587731.54	40°10'01.242"N	104°39'36.934"W	0.22	
15591.00	88.240	180.660	7030.59	7639.17	-7640.85	98.83	1735328.18	14587641.63	40°10'00.353"N	104°39'36.952"W	0.53	
15680.00	89.910	179.310	7032.03	7728.15	-7729.83	98.85	1735328.54	14587552.68	40°09'59.474"N	104°39'36.952"W	2.41	
15770.00	91.110	181.350	7031.23	7818.14	-7819.82	98.33	1735328.37	14587462.72	40°09'58.584"N	104°39'36.958"W	2.63	
15859.00	90.920	180.560	7029.65	7907.12	-7908.79	96.85	1735327.22	14587373.78	40°09'57.705"N	104°39'36.977"W	0.91	
15949.00	91.140	180.340	7028.03	7997.11	-7998.78	96.14	1735326.86	14587283.83	40°09'56.816"N	104°39'36.987"W	0.35	
16038.00	91.690	180.050	7025.83	8086.08	-8087.75	95.84	1735326.90	14587194.89	40°09'55.937"N	104°39'36.990"W	0.70	
16128.00	91.450	179.740	7023.37	8176.04	-8177.71	96.00	1735327.41	14587104.96	40°09'55.048"N	104°39'36.988"W	0.44	
16217.00	91.880	179.490	7020.78	8264.98	-8266.67	96.60	1735328.34	14587016.04	40°09'54.169"N	104°39'36.981"W	0.56	
16307.00	89.910	179.470	7019.38	8354.95	-8356.66	97.42	1735329.50	14586926.10	40°09'53.279"N	104°39'36.970"W	2.19	
16396.00	89.660	179.540	7019.71	8443.93	-8445.65	98.19	1735330.61	14586837.14	40°09'52.400"N	104°39'36.960"W	0.29	
16486.00	90.030	179.290	7019.95	8533.91	-8535.65	99.11	1735331.87	14586747.19	40°09'51.511"N	104°39'36.948"W	0.50	
16576.00	90.120	181.140	7019.84	8623.90	-8625.64	98.77	1735331.88	14586657.23	40°09'50.621"N	104°39'36.953"W	2.06	
16665.00	89.940	181.400	7019.79	8712.90	-8714.62	96.80	1735330.25	14586568.28	40°09'49.742"N	104°39'36.978"W	0.36	
16754.00	89.600	181.290	7020.15	8801.89	-8803.59	94.71	1735328.50	14586479.33	40°09'48.863"N	104°39'37.005"W	0.40	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#44 CANNON 1N-9HZ(521'FNL & 402'FEL,SEC.33)
Area	COLORADO	Well	CANNON 1N-9HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	CANNON 1N-9HZ AWP
Facility	SEC.33-T3N-R65W		

WELLPATH DATA (243 stations) † = interpolated/extrapolated station												
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
16844.00	89.690	180.960	7020.70	8891.88	-8893.57	92.94	1735327.08	14586389.38	40°09'47.973"N	104°39'37.028"W	0.38	
16934.00	89.380	180.860	7021.43	8981.88	-8983.56	91.51	1735325.99	14586299.42	40°09'47.084"N	104°39'37.046"W	0.36	
17023.00	90.000	180.970	7021.92	9070.88	-9072.55	90.09	1735324.91	14586210.47	40°09'46.205"N	104°39'37.064"W	0.71	
17112.00	90.710	180.930	7021.36	9159.87	-9161.53	88.61	1735323.78	14586121.51	40°09'45.326"N	104°39'37.084"W	0.80	
17202.00	90.400	180.130	7020.49	9249.87	-9251.52	87.78	1735323.29	14586031.55	40°09'44.436"N	104°39'37.094"W	0.95	
17291.00	91.170	180.190	7019.27	9338.86	-9340.51	87.53	1735323.38	14585942.59	40°09'43.557"N	104°39'37.097"W	0.87	
17381.00	89.570	180.390	7018.69	9428.85	-9430.51	87.08	1735323.27	14585852.64	40°09'42.667"N	104°39'37.103"W	1.79	
17470.00	88.950	180.440	7019.84	9517.84	-9519.50	86.43	1735322.97	14585763.68	40°09'41.788"N	104°39'37.112"W	0.70	
17512.00†	89.053	180.571	7020.57	9559.83	-9561.49	86.06	1735322.76	14585721.70	40°09'41.373"N	104°39'37.116"W	0.40	ENTER RADIUS TOE (365'FSL & 272'FEL,SEC.28) 40.1614925 -104.6603101
17560.00	89.170	180.720	7021.32	9607.83	-9609.48	85.52	1735322.40	14585673.73	40°09'40.899"N	104°39'37.123"W	0.40	
17649.00	89.230	180.430	7022.56	9696.82	-9698.47	84.63	1735321.85	14585584.77	40°09'40.020"N	104°39'37.135"W	0.33	
17739.00	88.980	179.930	7023.97	9786.80	-9788.46	84.35	1735321.91	14585494.82	40°09'39.130"N	104°39'37.138"W	0.62	
17828.00	88.950	179.990	7025.57	9875.78	-9877.44	84.41	1735322.31	14585405.87	40°09'38.251"N	104°39'37.138"W	0.08	
17918.00	88.950	179.790	7027.22	9965.76	-9967.43	84.58	1735322.83	14585315.92	40°09'37.362"N	104°39'37.135"W	0.22	
18007.00	89.290	179.860	7028.59	10054.74	-10056.42	84.85	1735323.44	14585226.97	40°09'36.482"N	104°39'37.132"W	0.39	
18096.00	89.200	179.300	7029.76	10143.72	-10145.41	85.51	1735324.43	14585138.02	40°09'35.603"N	104°39'37.124"W	0.64	
18186.00	90.400	179.550	7030.08	10233.69	-10235.40	86.41	1735325.68	14585048.06	40°09'34.714"N	104°39'37.112"W	1.36	LAST BHGE MWD+IFR1+MSA SURVEY
18237.00	90.400	179.550	7029.72	10284.68	-10286.40	86.81	1735326.27	14584997.09	40°09'34.210"N	104°39'37.107"W	0.00	PTB (360'FNL & 270'FEL,SEC.09) 40.1595027 -104.6603074

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#44 CANNON 1N-9HZ(521'FNL & 402'FEL,SEC.33)
Area	COLORADO	Well	CANNON 1N-9HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	CANNON 1N-9HZ AWB
Facility	SEC.33-T3N-R65W		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.04-T2N-R65W	-26.00	150.07	-3845.84	1731355.31	14595414.36	40°11'17.340"N	104°40'27.779"W	polygon
SEC.33-T3N-R65W	-26.00	150.07	-3845.84	1731355.31	14595414.36	40°11'17.340"N	104°40'27.779"W	polygon
SEC.09-T2N-R65W	0.00	-0.30	45.01	1735245.19	14595278.92	40°11'15.857"N	104°39'37.645"W	polygon
CANNON 1N-9HZ BHL REV-1(361'FNL & 265'FEL,SEC.09)	7022.00	-10287.37	91.96	1735331.43	14584996.14	40°09'34.200"N	104°39'37.040"W	point
CANNON 1N-9HZ BHL REV-2(361'FNL & 285'FEL,SEC.09)	7022.00	-10287.37	71.96	1735311.43	14584996.06	40°09'34.200"N	104°39'37.298"W	point
CANNON 1N-9HZ HEEL REV-1(152'FNL & 225'FEL,SEC.33)	7033.00	369.08	176.31	1735375.02	14595648.65	40°11'19.507"N	104°39'35.953"W	point
CANNON 1N-9HZ HEEL REV-2(152'FNL & 205'FEL,SEC.33)	7033.00	369.08	196.31	1735395.02	14595648.73	40°11'19.507"N	104°39'35.695"W	point
CANNON 1N-9HZ LANDBOX	7033.00	0.00	0.00	1735200.19	14595279.05	40°11'15.860"N	104°39'38.225"W	polygon
CANNON 1N-9HZ RADIUS 1	7033.00	-9925.49	361.43	1735599.40	14585358.90	40°09'37.776"N	104°39'33.570"W	polygon
CANNON 1N-9HZ RADIUS 2	7033.00	521.13	400.86	1735598.90	14595801.50	40°11'21.010"N	104°39'33.060"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: CANNON 1N-9HZ AWP      Ref Wellpath: CANNON 1N-9HZ AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	1847.00	Custom APC_ISCWSA REV 2 MWD+IFR1 (approximation)	Custom APC_ISCWSA Rev-2 MWD+IFR1 <137 - 1847>	CANNON 1N-9HZ AWB
1847.00	18186.00	Custom APC_ISCWSA REV 2 MWD+IFR1+MSA (approximation)	BHGE Custom APC_ISCWSA Rev-2 MWD+IFR1+MSA <1933 - 18186>	CANNON 1N-9HZ AWB
18186.00	18237.00	Blind Drilling (std)	Projection to bit	CANNON 1N-9HZ AWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#44 CANNON 1N-9HZ(521'FNL & 402'FEL,SEC.33)
Area	COLORADO	Well	CANNON 1N-9HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	CANNON 1N-9HZ AWB
Facility	SEC.33-T3N-R65W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
137.00	0.440	113.860	137.00	FIRST SURFACE MWD+IFR1 SURVEY
1847.00	16.260	10.770	1800.34	LAST SURFACE MWD+IFR1 SURVEY
1933.00	17.080	14.770	1882.73	FIRST BHGE MWD+IFR1+MSA SURVEY
6400.00	1.434	198.462	6238.95	KOP
7596.00	86.550	184.590	7024.25	LANDING (170'FNL & 202'FEL,SEC.33) 40.1887032 -104.6599029
7835.00	89.380	182.843	7029.11	EXIT RADIUS HEEL (408'FNL & 218'FEL,SEC.33) 40.1880485 -104.6599526
17512.00	89.053	180.571	7020.57	ENTER RADIUS TOE (365'FSL & 272'FEL,SEC.28) 40.1614925 -104.6603101
18186.00	90.400	179.550	7030.08	LAST BHGE MWD+IFR1+MSA SURVEY
18237.00	90.400	179.550	7029.72	PTB (360'FNL & 270'FEL,SEC.09) 40.1595027 -104.6603074