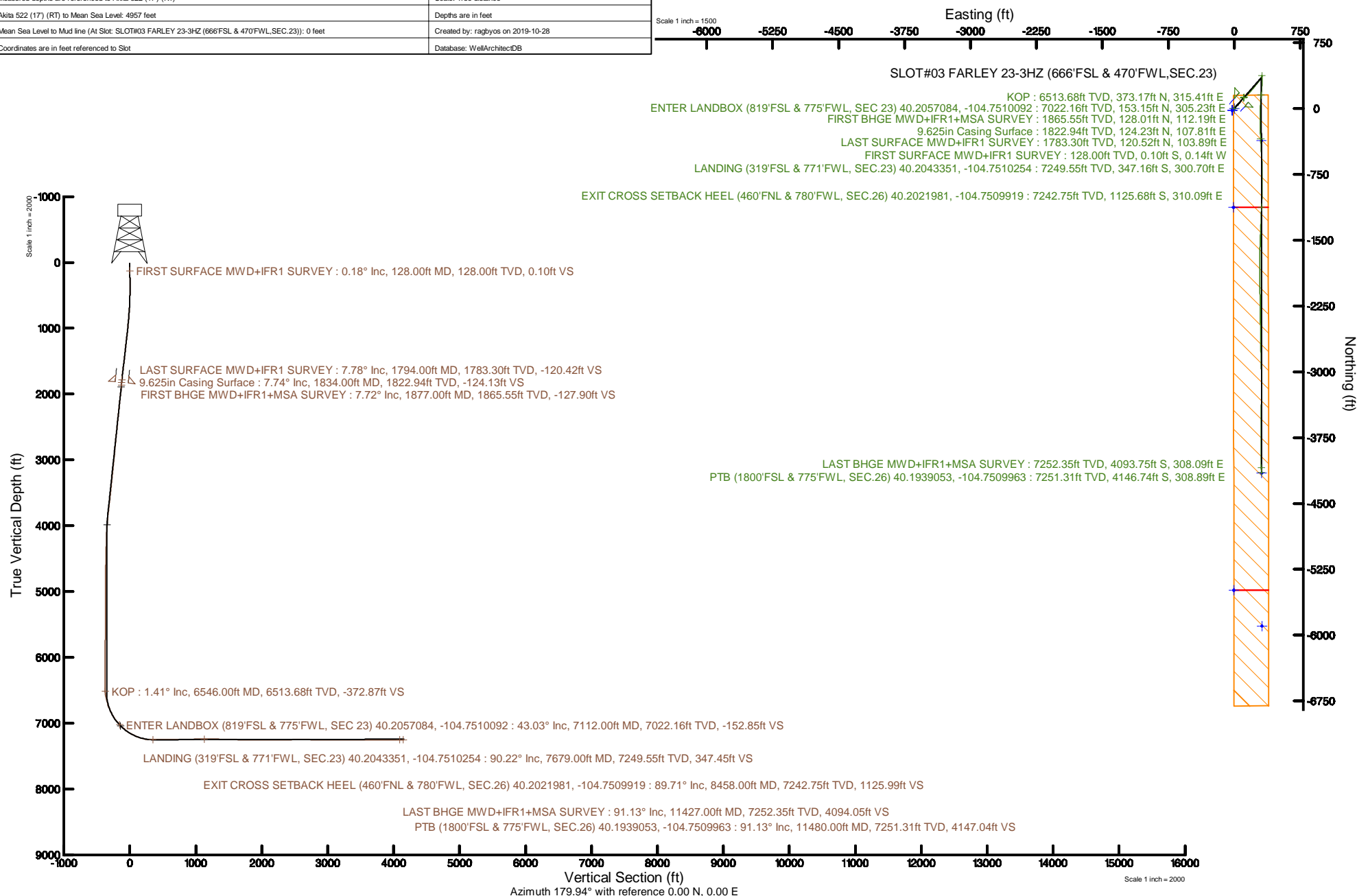


Location:	COLORADO	Slot:	SLOT#03 FARLEY 23-3HZ (666'FSL & 470'FWL,SEC.23)
Field:	WELD COUNTY (UTM/TRUE NORTH)	Well:	FARLEY 23-3HZ
Facility:	SEC.23-T3N-R66W	Wellbore:	FARLEY 23-3HZ PWB
Plot reference wellpath is FARLEY 23-3HZ PWP Rev-A.0		Grid System: NAD83 / UTM Zone 13 North, US feet	
True vertical depths are referenced to Akita 522 (17) (RT)		North Reference: True north	
Measured depths are referenced to Akita 522 (17) (RT)		Scale: True distance	
Akita 522 (17) (RT) to Mean Sea Level: 4957 feet		Depths are in feet	
Mean Sea Level to Mud line (At Slot: SLOT#03 FARLEY 23-3HZ (666'FSL & 470'FWL,SEC.23)): 0 feet		Created by: ragbyos on 2019-10-28	
Coordinates are in feet referenced to Slot		Database: WellArchitect:IDB	



Actual Wellpath Report

FARLEY 23-3HZ AWP

Page 1 of 6

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#03 FARLEY 23-3HZ (666'FSL & 470'FWL,SEC.23)
Area	COLORADO	Well	FARLEY 23-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	FARLEY 23-3HZ AWB
Facility	SEC.23-T3N-R66W		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 13 North, US feet	Software System	WellArchitect® 5.1
North Reference	True	User	Ragbyos
Scale	0.999605	Report Generated	10/29/2019 at 2:45:21 PM
Convergence at slot	0.16° East	Database/Source file	WellArchitectDB/FARLEY_23-3HZ_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	20.04	22.11	1709632.44	14601585.14	40°12'19.037"N	104°45'07.567"W
Facility Reference Pt			1709610.40	14601565.05	40°12'18.839"N	104°45'07.852"W
Field Reference Pt			1698235.31	14552047.82	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM

Calculation method	Minimum curvature	Akita 522 (17') (RT) to Facility Vertical Datum	4957.00ft
Horizontal Reference Pt	Slot	Akita 522 (17') (RT) to Mean Sea Level	4957.00ft
Vertical Reference Pt	Akita 522 (17') (RT)	Akita 522 (17') (RT) to Mud Line at Slot (SLOT#03 FARLEY 23-3HZ (666'FSL & 470'FWL,SEC.23))	4957.00ft
MD Reference Pt	Akita 522 (17') (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.94°

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#03 FARLEY 23-3HZ (666'FSL & 470'FWL,SEC.23)
Area	COLORADO	Well	FARLEY 23-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	FARLEY 23-3HZ AWB
Facility	SEC.23-T3N-R66W		

WELLPATH DATA (135 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	235.780	0.00	0.00	0.00	0.00	1709632.44	14601585.14	40°12'19.037"N	104°45'07.567"W	0.00	
17.00	0.000	235.780	17.00	0.00	0.00	0.00	1709632.44	14601585.14	40°12'19.037"N	104°45'07.567"W	0.00	
128.00	0.180	235.780	128.00	0.10	-0.10	-0.14	1709632.30	14601585.04	40°12'19.036"N	104°45'07.569"W	0.16	FIRST SURFACE MWD+IFR1 SURVEY
223.00	0.400	212.490	223.00	0.46	-0.46	-0.45	1709632.00	14601584.68	40°12'19.032"N	104°45'07.573"W	0.26	
318.00	0.530	197.110	318.00	1.16	-1.16	-0.75	1709631.69	14601583.98	40°12'19.026"N	104°45'07.577"W	0.19	
414.00	0.880	77.760	413.99	1.43	-1.43	-0.16	1709632.28	14601583.71	40°12'19.023"N	104°45'07.569"W	1.28	
508.00	2.200	61.930	507.96	0.43	-0.43	2.13	1709634.58	14601584.72	40°12'19.033"N	104°45'07.539"W	1.46	
604.00	2.460	29.150	603.88	-2.23	2.24	4.76	1709637.20	14601587.39	40°12'19.059"N	104°45'07.506"W	1.39	
698.00	4.700	31.090	697.69	-7.29	7.30	7.74	1709640.16	14601592.46	40°12'19.109"N	104°45'07.467"W	2.39	
793.00	5.360	34.340	792.32	-14.28	14.30	12.25	1709644.65	14601599.46	40°12'19.178"N	104°45'07.409"W	0.76	
888.00	6.460	39.000	886.82	-22.10	22.11	18.11	1709650.49	14601607.29	40°12'19.256"N	104°45'07.334"W	1.26	
984.00	8.040	40.750	982.05	-31.37	31.40	25.90	1709658.24	14601616.60	40°12'19.347"N	104°45'07.233"W	1.66	
1079.00	8.700	44.880	1076.04	-41.49	41.52	35.30	1709667.62	14601626.74	40°12'19.447"N	104°45'07.112"W	0.94	
1174.00	8.260	45.320	1170.00	-51.37	51.41	45.22	1709677.51	14601636.66	40°12'19.545"N	104°45'06.984"W	0.47	
1268.00	8.530	43.300	1262.99	-61.18	61.23	54.81	1709687.06	14601646.50	40°12'19.642"N	104°45'06.861"W	0.43	
1363.00	8.700	38.380	1356.92	-71.93	71.99	64.10	1709696.32	14601657.28	40°12'19.748"N	104°45'06.741"W	0.80	
1458.00	8.040	35.130	1450.91	-82.99	83.06	72.38	1709704.57	14601668.37	40°12'19.858"N	104°45'06.634"W	0.85	
1553.00	8.960	36.620	1544.86	-94.35	94.43	80.62	1709712.77	14601679.76	40°12'19.970"N	104°45'06.528"W	1.00	
1648.00	8.610	41.720	1638.75	-105.59	105.68	89.77	1709721.88	14601691.02	40°12'20.081"N	104°45'06.410"W	0.90	
1743.00	7.820	44.270	1732.78	-115.51	115.61	99.01	1709731.09	14601700.98	40°12'20.179"N	104°45'06.291"W	0.92	
1794.00	7.780	45.320	1783.30	-120.42	120.52	103.89	1709735.95	14601705.90	40°12'20.228"N	104°45'06.228"W	0.29	LAST SURFACE MWD+IFR1 SURVEY
1877.00	7.720	50.590	1865.55	-127.90	128.01	112.19	1709744.23	14601713.41	40°12'20.302"N	104°45'06.121"W	0.86	FIRST BH MWD+IFR1+MSA SURVEY
1964.00	10.000	50.320	1951.50	-136.43	136.55	122.52	1709754.53	14601721.97	40°12'20.386"N	104°45'05.988"W	2.62	
2052.00	9.360	47.610	2038.25	-146.12	146.25	133.68	1709765.66	14601731.70	40°12'20.482"N	104°45'05.844"W	0.89	
2140.00	9.030	45.570	2125.12	-155.77	155.91	143.90	1709775.85	14601741.39	40°12'20.578"N	104°45'05.712"W	0.53	
2227.00	8.620	44.220	2211.09	-165.21	165.36	153.32	1709785.24	14601750.86	40°12'20.671"N	104°45'05.591"W	0.53	
2314.00	8.240	43.990	2297.15	-174.36	174.52	162.20	1709794.09	14601760.04	40°12'20.762"N	104°45'05.477"W	0.44	
2402.00	7.690	42.790	2384.30	-183.21	183.38	170.58	1709802.44	14601768.92	40°12'20.849"N	104°45'05.369"W	0.65	
2489.00	7.190	42.770	2470.57	-191.47	191.64	178.23	1709810.07	14601777.20	40°12'20.931"N	104°45'05.270"W	0.57	
2577.00	8.630	44.410	2557.73	-200.22	200.40	186.59	1709818.40	14601785.98	40°12'21.017"N	104°45'05.162"W	1.66	
2664.00	8.160	42.950	2643.80	-209.39	209.59	195.37	1709827.15	14601795.19	40°12'21.108"N	104°45'05.049"W	0.59	
2752.00	7.540	41.680	2730.97	-218.27	218.47	203.46	1709835.21	14601804.09	40°12'21.196"N	104°45'04.945"W	0.73	
2839.00	7.110	41.310	2817.26	-226.57	226.78	210.81	1709842.54	14601812.41	40°12'21.278"N	104°45'04.850"W	0.50	
2927.00	6.740	41.410	2904.62	-234.53	234.74	217.82	1709849.52	14601820.39	40°12'21.357"N	104°45'04.760"W	0.42	
3014.00	7.230	35.790	2990.97	-242.79	243.01	224.40	1709856.07	14601828.68	40°12'21.438"N	104°45'04.675"W	0.97	
3101.00	6.820	33.630	3077.32	-251.53	251.75	230.46	1709862.11	14601837.43	40°12'21.525"N	104°45'04.597"W	0.56	
3189.00	6.780	33.850	3164.70	-260.19	260.42	236.25	1709867.87	14601846.11	40°12'21.610"N	104°45'04.522"W	0.05	
3277.00	8.110	41.540	3251.96	-269.14	269.38	243.26	1709874.85	14601855.09	40°12'21.699"N	104°45'04.432"W	1.89	
3364.00	7.390	41.330	3338.16	-277.93	278.17	251.02	1709882.59	14601863.90	40°12'21.786"N	104°45'04.332"W	0.83	
3451.00	8.020	38.270	3424.38	-286.89	287.14	258.48	1709890.02	14601872.88	40°12'21.874"N	104°45'04.236"W	0.86	
3539.00	8.740	43.590	3511.44	-296.54	296.80	266.89	1709898.40	14601882.57	40°12'21.970"N	104°45'04.127"W	1.20	
3626.00	7.630	41.640	3597.55	-305.64	305.91	275.29	1709906.76	14601891.69	40°12'22.060"N	104°45'04.019"W	1.31	
3714.00	8.580	36.040	3684.67	-315.30	315.58	283.03	1709914.48	14601901.38	40°12'22.156"N	104°45'03.919"W	1.40	
3802.00	7.450	34.280	3771.81	-325.32	325.60	290.11	1709921.52	14601911.42	40°12'22.255"N	104°45'03.828"W	1.31	
3889.00	6.730	35.710	3858.15	-334.11	334.40	296.26	1709927.65	14601920.23	40°12'22.342"N	104°45'03.749"W	0.85	

REFERENCE WELLPATH IDENTIFICATION				
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)		Slot	SLOT#03 FARLEY 23-3HZ (666'FSL & 470'FWL, SEC.23)
Area	COLORADO		Well	FARLEY 23-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)		Wellbore	FARLEY 23-3HZ AWB
Facility	SEC.23-T3N-R66W			

WELLPATH DATA (135 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
3977.00	6.270	37.500	3945.58	-342.11	342.40	302.19	1709933.56	14601928.25	40°12'22.421"N	104°45'03.672"W	0.57	
4064.00	4.890	40.890	4032.17	-348.67	348.97	307.51	1709938.86	14601934.83	40°12'22.486"N	104°45'03.604"W	1.63	
4151.00	3.120	12.540	4118.96	-353.79	354.09	310.45	1709941.79	14601939.95	40°12'22.536"N	104°45'03.566"W	2.99	
4239.00	1.050	6.960	4206.90	-356.92	357.23	311.07	1709942.39	14601943.09	40°12'22.567"N	104°45'03.558"W	2.36	
4326.00	1.300	7.370	4293.88	-358.69	359.00	311.30	1709942.61	14601944.86	40°12'22.585"N	104°45'03.555"W	0.29	
4414.00	1.170	16.560	4381.86	-360.54	360.85	311.68	1709942.99	14601946.71	40°12'22.603"N	104°45'03.550"W	0.27	
4501.00	1.310	351.300	4468.84	-362.38	362.68	311.78	1709943.09	14601948.55	40°12'22.621"N	104°45'03.549"W	0.64	
4588.00	1.520	6.790	4555.81	-364.51	364.81	311.77	1709943.07	14601950.68	40°12'22.642"N	104°45'03.549"W	0.50	
4676.00	1.400	355.410	4643.78	-366.74	367.04	311.82	1709943.11	14601952.91	40°12'22.664"N	104°45'03.548"W	0.36	
4764.00	1.790	11.830	4731.75	-369.15	369.46	312.02	1709943.30	14601955.32	40°12'22.688"N	104°45'03.546"W	0.68	
4851.00	0.380	72.960	4818.73	-370.57	370.87	312.57	1709943.85	14601956.74	40°12'22.702"N	104°45'03.538"W	1.89	
4965.00	0.710	78.900	4932.73	-370.81	371.12	313.63	1709944.91	14601956.99	40°12'22.704"N	104°45'03.525"W	0.29	
5053.00	0.750	231.990	5020.73	-370.56	370.87	313.71	1709944.99	14601956.74	40°12'22.702"N	104°45'03.524"W	1.61	
5140.00	0.510	232.680	5107.72	-369.98	370.29	312.95	1709944.23	14601956.15	40°12'22.696"N	104°45'03.534"W	0.28	
5228.00	0.380	250.900	5195.72	-369.65	369.95	312.36	1709943.65	14601955.82	40°12'22.693"N	104°45'03.541"W	0.22	
5315.00	0.430	284.060	5282.72	-369.63	369.94	311.77	1709943.06	14601955.80	40°12'22.693"N	104°45'03.549"W	0.27	
5403.00	0.280	290.740	5370.71	-369.79	370.09	311.25	1709942.54	14601955.95	40°12'22.694"N	104°45'03.555"W	0.18	
5490.00	0.400	344.400	5457.71	-370.16	370.46	310.97	1709942.26	14601956.32	40°12'22.698"N	104°45'03.559"W	0.37	
5578.00	0.580	356.400	5545.71	-370.90	371.20	310.86	1709942.14	14601957.06	40°12'22.705"N	104°45'03.560"W	0.23	
5665.00	0.490	24.630	5632.71	-371.68	371.98	310.99	1709942.27	14601957.84	40°12'22.713"N	104°45'03.559"W	0.32	
5752.00	0.470	22.370	5719.70	-372.34	372.65	311.28	1709942.56	14601958.51	40°12'22.719"N	104°45'03.555"W	0.03	
5840.00	0.490	20.920	5807.70	-373.03	373.33	311.55	1709942.83	14601959.19	40°12'22.726"N	104°45'03.552"W	0.03	
5928.00	0.350	49.850	5895.70	-373.55	373.86	311.89	1709943.17	14601959.72	40°12'22.731"N	104°45'03.547"W	0.28	
6015.00	0.340	72.710	5982.70	-373.80	374.11	312.34	1709943.61	14601959.97	40°12'22.734"N	104°45'03.541"W	0.16	
6102.00	0.140	70.610	6069.69	-373.91	374.22	312.69	1709943.96	14601960.08	40°12'22.735"N	104°45'03.537"W	0.23	
6190.00	0.090	25.030	6157.69	-374.01	374.32	312.82	1709944.09	14601960.18	40°12'22.736"N	104°45'03.535"W	0.11	
6278.00	0.200	177.490	6245.69	-373.92	374.23	312.85	1709944.13	14601960.09	40°12'22.735"N	104°45'03.535"W	0.32	
6365.00	0.480	116.540	6332.69	-373.60	373.91	313.19	1709944.46	14601959.77	40°12'22.732"N	104°45'03.530"W	0.48	
6453.00	0.690	100.830	6420.69	-373.34	373.65	314.04	1709945.31	14601959.51	40°12'22.729"N	104°45'03.520"W	0.30	
6540.00	1.070	111.410	6507.68	-372.94	373.25	315.31	1709946.58	14601959.12	40°12'22.725"N	104°45'03.503"W	0.47	
6546.00†	1.412	139.798	6513.68	-372.87	373.17	315.41	1709946.68	14601959.05	40°12'22.725"N	104°45'03.502"W	11.55	KOP
6628.00	10.480	181.410	6595.17	-364.62	364.93	315.88	1709947.17	14601950.80	40°12'22.643"N	104°45'03.496"W	11.55	
6715.00	15.850	180.340	6679.85	-344.82	345.12	315.61	1709946.96	14601931.01	40°12'22.447"N	104°45'03.499"W	6.18	
6802.00	20.830	179.760	6762.40	-317.45	317.76	315.61	1709947.04	14601903.65	40°12'22.177"N	104°45'03.499"W	5.73	
6891.00	26.500	182.260	6843.89	-281.76	282.06	314.89	1709946.42	14601867.97	40°12'21.824"N	104°45'03.509"W	6.47	
6978.00	35.050	184.280	6918.57	-237.37	237.67	312.25	1709943.91	14601823.59	40°12'21.386"N	104°45'03.543"W	9.90	
7065.00	40.770	185.000	6987.18	-184.12	184.42	307.91	1709939.72	14601770.34	40°12'20.859"N	104°45'03.597"W	6.59	
7112.00†	43.029	184.806	7022.16	-152.85	153.15	305.23	1709937.12	14601739.08	40°12'20.550"N	104°45'03.633"W	4.81	ENTER LANDBOX (819'FSL & 775'FWL, SEC 23) 40.2057084, -104.7510092
7153.00	45.000	184.650	7051.65	-124.46	124.76	302.88	1709934.85	14601710.69	40°12'20.270"N	104°45'03.663"W	4.81	
7241.00	51.290	182.130	7110.34	-59.07	59.37	299.08	1709931.24	14601645.32	40°12'19.624"N	104°45'03.712"W	7.46	
7329.00	60.950	179.970	7159.34	13.88	-13.59	297.82	1709930.18	14601572.39	40°12'18.903"N	104°45'03.729"W	11.16	
7416.00	66.830	180.640	7197.61	91.96	-91.67	297.39	1709929.97	14601494.33	40°12'18.131"N	104°45'03.734"W	6.79	
7504.00	72.890	180.230	7227.90	174.54	-174.25	296.77	1709929.58	14601411.79	40°12'17.315"N	104°45'03.742"W	6.90	
7591.00	84.120	178.720	7245.21	259.66	-259.36	297.57	1709930.62	14601326.71	40°12'16.474"N	104°45'03.732"W	13.02	
7679.00	90.220	177.210	7249.55	347.45	-347.16	300.70	1709933.99	14601238.96	40°12'15.606"N	104°45'03.692"W	7.14	LANDING (319'FSL & 771'FWL, SEC.23) 40.2043351, -104.7510254

REFERENCE WELLPATH IDENTIFICATION				
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)		Slot	SLOT#03 FARLEY 23-3HZ (666'FSL & 470'FWL,SEC.23)
Area	COLORADO		Well	FARLEY 23-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)		Wellbore	FARLEY 23-3HZ AWB
Facility	SEC.23-T3N-R66W			

WELLPATH DATA (135 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
7766.00	90.580	177.080	7248.95	434.35	-434.05	305.03	1709938.56	14601152.12	40°12'14.748"N	104°45'03.636"W	0.44	
7853.00	91.190	176.420	7247.60	521.20	-520.90	309.96	1709943.73	14601065.32	40°12'13.890"N	104°45'03.572"W	1.03	
7941.00	90.380	178.770	7246.40	609.11	-608.80	313.65	1709947.67	14600977.46	40°12'13.021"N	104°45'03.525"W	2.82	
8028.00	91.020	179.080	7245.33	696.09	-695.78	315.28	1709949.54	14600890.52	40°12'12.161"N	104°45'03.504"W	0.82	
8116.00	89.640	180.580	7244.83	784.08	-783.77	315.55	1709950.05	14600802.56	40°12'11.292"N	104°45'03.500"W	2.32	
8203.00	90.210	180.360	7244.94	871.08	-870.77	314.83	1709949.58	14600715.60	40°12'10.432"N	104°45'03.509"W	0.70	
8291.00	91.440	180.160	7243.67	959.07	-958.76	314.43	1709949.43	14600627.64	40°12'09.563"N	104°45'03.515"W	1.42	
8378.00	90.020	181.390	7244.52	1046.04	-1045.73	312.80	1709948.04	14600540.70	40°12'08.703"N	104°45'03.536"W	2.66	
8458.00†	89.711	181.899	7242.75	1125.99	-1125.68	310.09	1709945.55	14600460.77	40°12'07.913"N	104°45'03.571"W	0.40	EXIT CROSS SETBACK HEEL (460'FNL & 780'FWL, SEC.26) 40.2021981, -104.7509919
8466.00	89.680	181.890	7242.80	1133.98	-1133.68	309.82	1709945.31	14600452.78	40°12'07.834"N	104°45'03.574"W	0.40	
8554.00	91.120	181.770	7242.18	1221.93	-1221.63	307.01	1709942.74	14600364.85	40°12'06.965"N	104°45'03.610"W	1.64	
8641.00	88.710	182.760	7242.31	1308.85	-1308.56	303.57	1709939.55	14600277.96	40°12'06.106"N	104°45'03.655"W	2.99	
8728.00	88.650	182.390	7244.32	1395.74	-1395.44	299.67	1709935.89	14600191.09	40°12'05.247"N	104°45'03.705"W	0.43	
8816.00	88.420	181.910	7246.57	1483.64	-1483.35	296.37	1709932.83	14600103.21	40°12'04.379"N	104°45'03.748"W	0.60	
8903.00	88.870	181.880	7248.62	1570.57	-1570.28	293.49	1709930.20	14600016.31	40°12'03.520"N	104°45'03.785"W	0.52	
8990.00	88.590	181.070	7250.55	1657.23	-1657.23	291.25	1709928.20	14599929.39	40°12'02.660"N	104°45'03.814"W	0.98	
9078.00	88.180	180.760	7253.03	1745.47	-1745.18	289.85	1709927.05	14599841.46	40°12'01.791"N	104°45'03.832"W	0.58	
9165.00	88.540	180.120	7255.52	1832.43	-1832.14	289.18	1709926.62	14599754.54	40°12'00.932"N	104°45'03.840"W	0.84	
9253.00	90.270	179.370	7256.43	1920.42	-1920.14	289.57	1709927.26	14599666.58	40°12'00.062"N	104°45'03.835"W	2.14	
9340.00	90.620	178.960	7255.76	2007.41	-2007.12	290.84	1709928.77	14599579.63	40°11'59.203"N	104°45'03.819"W	0.62	
9427.00	90.330	178.510	7255.04	2094.38	-2094.10	292.76	1709930.93	14599492.70	40°11'58.343"N	104°45'03.794"W	0.62	
9515.00	90.980	178.400	7254.03	2182.35	-2182.06	295.13	1709933.55	14599404.78	40°11'57.474"N	104°45'03.764"W	0.75	
9602.00	90.440	180.100	7252.95	2269.33	-2269.04	296.27	1709934.93	14599317.83	40°11'56.614"N	104°45'03.749"W	2.05	
9689.00	90.780	179.310	7252.03	2356.32	-2356.04	296.72	1709935.62	14599230.88	40°11'55.755"N	104°45'03.743"W	0.99	
9777.00	91.720	178.980	7250.11	2444.29	-2444.00	298.03	1709937.18	14599142.95	40°11'54.885"N	104°45'03.726"W	1.13	
9865.00	89.510	179.690	7249.16	2532.28	-2531.99	299.05	1709938.44	14599055.00	40°11'54.016"N	104°45'03.713"W	2.64	
9952.00	89.680	179.160	7249.78	2619.27	-2618.98	299.92	1709939.56	14598968.05	40°11'53.156"N	104°45'03.702"W	0.64	
10039.00	90.010	178.820	7250.01	2706.26	-2705.97	301.46	1709941.33	14598881.10	40°11'52.297"N	104°45'03.682"W	0.54	
10127.00	89.130	178.210	7250.67	2794.23	-2793.93	303.74	1709943.86	14598793.17	40°11'51.427"N	104°45'03.653"W	1.22	
10214.00	89.530	178.780	7251.69	2881.19	-2880.90	306.02	1709946.39	14598706.25	40°11'50.568"N	104°45'03.623"W	0.80	
10302.00	90.190	178.140	7251.91	2969.16	-2968.86	308.39	1709949.00	14598618.33	40°11'49.699"N	104°45'03.593"W	1.04	
10389.00	89.270	179.630	7252.32	3056.14	-3055.84	310.08	1709950.93	14598531.39	40°11'48.839"N	104°45'03.571"W	2.01	
10477.00	89.780	179.260	7253.05	3144.14	-3143.83	310.93	1709952.03	14598443.43	40°11'47.970"N	104°45'03.560"W	0.72	
10564.00	89.610	181.310	7253.51	3231.13	-3230.83	310.50	1709951.84	14598356.47	40°11'47.110"N	104°45'03.566"W	2.36	
10652.00	89.360	180.730	7254.30	3319.11	-3318.81	308.93	1709950.52	14598268.52	40°11'46.241"N	104°45'03.586"W	0.72	
10739.00	89.350	180.480	7255.28	3406.10	-3405.80	308.02	1709949.84	14598181.56	40°11'45.381"N	104°45'03.598"W	0.29	
10827.00	89.560	180.230	7256.12	3494.09	-3493.79	307.47	1709949.54	14598093.60	40°11'44.511"N	104°45'03.605"W	0.37	
10914.00	89.930	180.160	7256.50	3581.09	-3580.79	307.17	1709949.49	14598006.64	40°11'43.652"N	104°45'03.609"W	0.43	
11002.00	90.150	180.370	7256.44	3669.09	-3668.79	306.77	1709949.33	14597918.67	40°11'42.782"N	104°45'03.614"W	0.35	
11089.00	90.280	180.320	7256.12	3756.09	-3755.79	306.24	1709949.05	14597831.71	40°11'41.922"N	104°45'03.621"W	0.16	
11176.00	90.480	179.930	7255.54	3843.08	-3842.79	306.05	1709949.10	14597744.75	40°11'41.063"N	104°45'03.623"W	0.50	
11264.00	90.440	179.660	7254.83	3931.08	-3930.78	306.37	1709949.66	14597656.79	40°11'40.193"N	104°45'03.619"W	0.31	
11351.00	90.980	179.370	7253.75	4018.07	-4017.77	307.10	1709950.64	14597569.83	40°11'39.333"N	104°45'03.610"W	0.70	
11427.00	91.130	179.140	7253.35	4094.05	-4093.75	308.09	1709951.84	14597493.89	40°11'38.583"N	104°45'03.597"W	0.36	LAST BH MWD+IFR1+MSA SURVEY
11480.00	91.130	179.140	7251.31	4147.04	-4146.74	308.89	1709952.78	14597440.92	40°11'38.059"N	104°45'03.587"W	0.00	PTB (1800'FSL & 775'FWL, SEC.26) 40.1939053, -104.7509963

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#03 FARLEY 23-3HZ (666'FSL & 470'FWL,SEC.23)
Area	COLORADO	Well	FARLEY 23-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	FARLEY 23-3HZ AWB
Facility	SEC.23-T3N-R66W		

HOLE & CASING SECTIONS - Ref Wellbore: FARLEY 23-3HZ AWB Ref Wellpath: FARLEY 23-3HZ AWP									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing Surface	17.00	1834.00	1817.00	17.00	1822.94	0.00	0.00	124.23	107.81

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.22-T3N-R66W	0.00	-20.04	-22.11	1709610.39	14601565.05	40°12'18.839"N	104°45'07.852"W	polygon
SEC.23-T3N-R66W	0.00	-20.04	-22.11	1709610.39	14601565.05	40°12'18.839"N	104°45'07.852"W	polygon
SEC.26-T3N-R66W	0.00	-20.04	-22.11	1709610.39	14601565.05	40°12'18.839"N	104°45'07.852"W	polygon
SEC.27-T3N-R66W	0.00	-20.04	-22.11	1709610.39	14601565.05	40°12'18.839"N	104°45'07.852"W	polygon
FARLEY 23-3HZ BHL REV-1 (50'FSL & 780'FWL,SEC.26)	7242.00	-5896.57	315.13	1709963.91	14595691.81	40°11'20.767"N	104°45'03.506"W	point
FARLEY 23-3HZ BHL REV-2 (1794'FSL & 778'FWL,SEC.26)	7242.00	-4152.67	312.04	1709955.95	14597435.01	40°11'38.000"N	104°45'03.546"W	point
FARLEY 23-3HZ HEEL REV-1 (300'FSL & 778'FWL,SEC.23)	7251.00	-365.82	308.35	1709941.69	14601220.33	40°12'15.422"N	104°45'03.593"W	point
FARLEY 23-3HZ LANDBOX	7260.00	0.00	0.00	1709632.44	14601585.14	40°12'19.037"N	104°45'07.567"W	polygon
FARLEY 23-3HZ SETBACK 1	7260.00	-5487.72	-5.17	1709642.60	14596099.60	40°11'24.807"N	104°45'07.634"W	polygon
FARLEY 23-3HZ SETBACK 2	7260.00	-1125.97	-8.69	1709626.90	14600459.60	40°12'07.910"N	104°45'07.679"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: FARLEY 23-3HZ AWB Ref Wellpath: FARLEY 23-3HZ AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	1794.00	Custom APC_ISCWSA REV 2 MWD+IFR1 (approximation)	Custom APC ISCWSA Rev-2 MWD+IFR1 <128 - 1794>	FARLEY 23-3HZ AWB
1794.00	11427.00	Custom APC_ISCWSA REV 2 MWD+IFR1+MSA (approximation)	BH Custom APC ISCWSA Rev-2 MWD+IFR1 <1877 - 11427>	FARLEY 23-3HZ AWB
11427.00	11480.00	Blind Drilling (std)	Projection to bit	FARLEY 23-3HZ AWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#03 FARLEY 23-3HZ (666'FSL & 470'FWL,SEC.23)
Area	COLORADO	Well	FARLEY 23-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	FARLEY 23-3HZ AWB
Facility	SEC.23-T3N-R66W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
128.00	0.180	235.780	128.00	FIRST SURFACE MWD+IFR1 SURVEY
1794.00	7.780	45.320	1783.30	LAST SURFACE MWD+IFR1 SURVEY
1877.00	7.720	50.590	1865.55	FIRST BH MWD+IFR1+MSA SURVEY
6546.00	1.412	139.798	6513.68	KOP
7112.00	43.029	184.806	7022.16	ENTER LANDBOX (819'FSL & 775'FWL, SEC.23) 40.2057084, -104.7510092
7679.00	90.220	177.210	7249.55	LANDING (319'FSL & 771'FWL, SEC.23) 40.2043351, -104.7510254
8458.00	89.711	181.899	7242.75	EXIT CROSS SETBACK HEEL (460'FNL & 780'FWL, SEC.26) 40.2021981, -104.7509919
11427.00	91.130	179.140	7252.35	LAST BH MWD+IFR1+MSA SURVEY
11480.00	91.130	179.140	7251.31	PTB (1800'FSL & 775'FWL, SEC.26) 40.1939053, -104.7509963