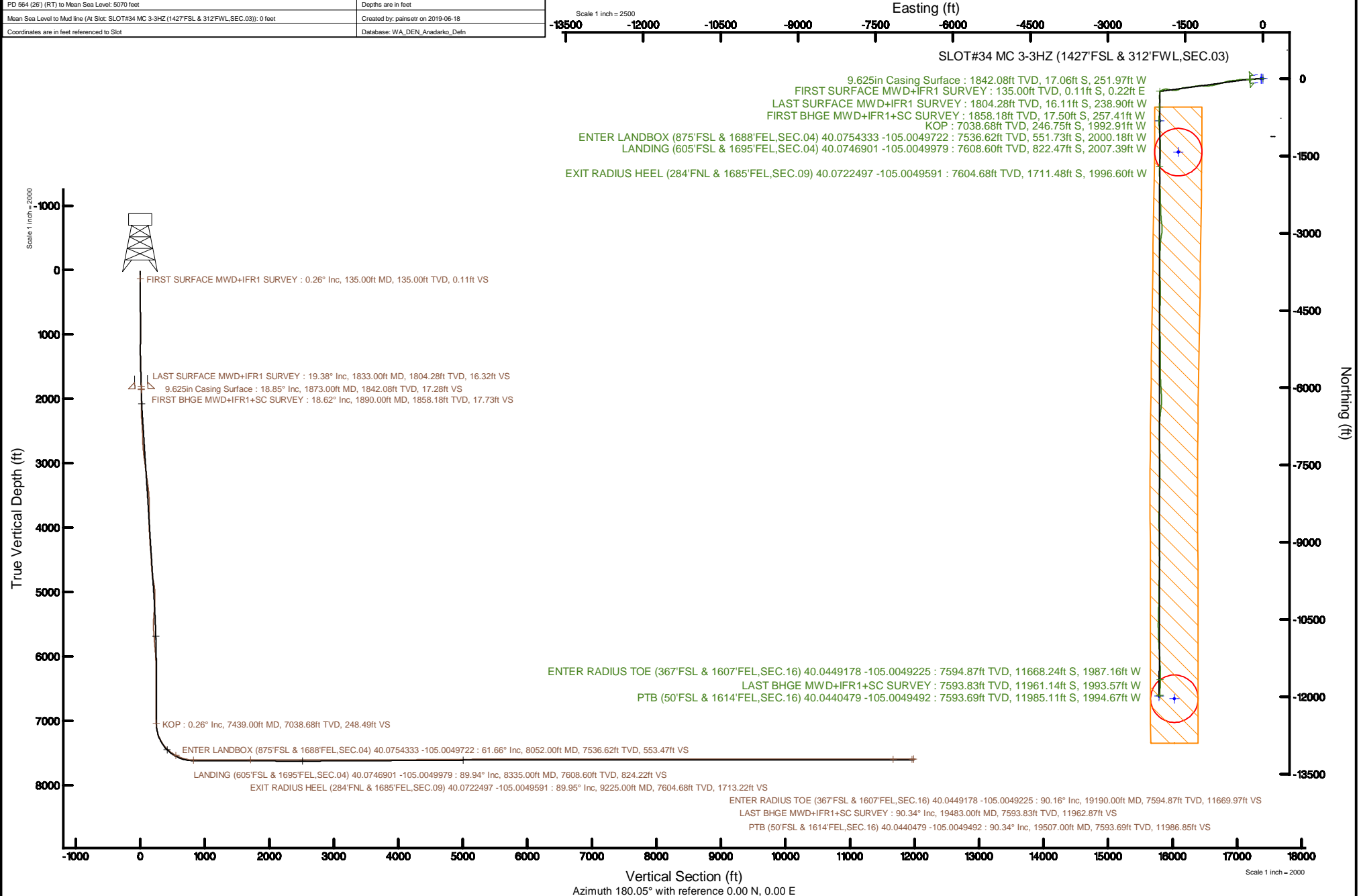


KERR-MCGEE OIL & GAS ONSHORE LP (WA)

Location: COLORADO Slot: SLOT#34 MC 3-3HZ (1427FSL & 312FWL,SEC.03)
 Field: WELD COUNTY (UTM/TRUE NORTH) Well: MC 3-3HZ
 Facility: SEC.03-T1N-R68W Wellbore: MC 3-3HZ PWB

Plot reference wellpath is MC 3-3HZ PWP Rev-A.0	Grid System: NAD83 / UTM Zone 13 North, US feet
True vertical depths are referenced to PD 564 (26) (RT)	North Reference: True north
Measured depths are referenced to PD 564 (26) (RT)	Scale: True distance
PD 564 (26) (RT) to Mean Sea Level: 5070 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot: SLOT#34 MC 3-3HZ & 312FWL,SEC.03): 0 feet	Created by: painsetr on 2019-06-18
Coordinates are in feet referenced to Slot	Database: WA_DEN, Anadarko, Delfi



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#34 MC 3-3HZ (1427'FSL & 312'FWL,SEC.03)
Area	COLORADO	Well	MC 3-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MC 3-3HZ AWB
Facility	SEC.03-T1N-R68W		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 13 North, US feet	Software System	WellArchitect@ 5.1
North Reference	True	User	Painsetr
Scale	0.999600	Report Generated	6/18/2019 at 9:11:04 AM
Convergence at slot	0.00°	Database/Source file	WA_DEN_Anadarko_Defn/MC_3-3HZ_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-277.58	-866.13	1641025.09	14554753.55	40°04'37.013"N	104°59'52.170"W
Facility Reference Pt			1641890.86	14555031.06	40°04'39.756"N	104°59'41.028"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	5070.00ft
Horizontal Reference Pt	Slot	PD 564 (26') (RT) to Mean Sea Level	5070.00ft
Vertical Reference Pt	PD 564 (26') (RT)	PD 564 (26') (RT) to Mud Line at Slot (SLOT#34 MC 3-3HZ (1427'FSL & 312'FWL,SEC.03))	5070.00ft
MD Reference Pt	PD 564 (26') (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	180.05°

Actual Wellpath Report

MC 3-3HZ AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#34 MC 3-3HZ (1427'FSL & 312'FWL,SEC.03)
Area	COLORADO	Well	MC 3-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MC 3-3HZ AWB
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (221 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	117.460	0.00	0.00	0.00	0.00	1641025.09	14554753.55	40°04'37.013"N	104°59'52.170"W	0.00	
26.00	0.000	117.460	26.00	0.00	0.00	0.00	1641025.09	14554753.55	40°04'37.013"N	104°59'52.170"W	0.00	
135.00	0.260	117.460	135.00	0.11	-0.11	0.22	1641025.31	14554753.43	40°04'37.012"N	104°59'52.167"W	0.24	FIRST SURFACE MWD+IFR1 SURVEY
229.00	0.750	104.770	229.00	0.36	-0.36	1.00	1641026.10	14554753.18	40°04'37.009"N	104°59'52.157"W	0.53	
324.00	0.570	45.740	323.99	0.19	-0.19	1.95	1641027.04	14554753.36	40°04'37.011"N	104°59'52.145"W	0.70	
420.00	0.090	180.210	419.99	-0.07	0.07	2.29	1641027.38	14554753.62	40°04'37.013"N	104°59'52.141"W	0.66	
515.00	0.440	180.740	514.99	0.37	-0.37	2.28	1641027.37	14554753.18	40°04'37.009"N	104°59'52.141"W	0.37	
611.00	1.930	231.890	610.97	1.73	-1.74	1.01	1641026.10	14554751.81	40°04'36.996"N	104°59'52.157"W	1.76	
706.00	3.250	256.760	705.87	3.34	-3.34	-2.87	1641022.22	14554750.21	40°04'36.980"N	104°59'52.207"W	1.79	
801.00	5.580	262.120	800.58	4.60	-4.59	-10.07	1641015.03	14554748.96	40°04'36.967"N	104°59'52.300"W	2.49	
896.00	7.870	271.880	894.92	5.03	-5.01	-21.15	1641003.95	14554748.54	40°04'36.963"N	104°59'52.442"W	2.69	
991.00	8.960	274.080	988.90	4.30	-4.27	-35.03	1640990.08	14554749.28	40°04'36.971"N	104°59'52.621"W	1.20	
1087.00	9.490	273.810	1083.66	3.26	-3.21	-50.38	1640974.73	14554750.33	40°04'36.981"N	104°59'52.818"W	0.55	
1182.00	10.240	273.900	1177.25	2.18	-2.12	-66.62	1640958.50	14554751.43	40°04'36.992"N	104°59'53.027"W	0.79	
1276.00	12.130	268.190	1269.47	1.94	-1.86	-84.83	1640940.30	14554751.68	40°04'36.994"N	104°59'53.261"W	2.33	
1371.00	14.990	266.170	1361.81	3.09	-3.00	-107.07	1640918.07	14554750.55	40°04'36.983"N	104°59'53.547"W	3.05	
1467.00	15.690	264.410	1454.39	5.21	-5.09	-132.38	1640892.77	14554748.45	40°04'36.962"N	104°59'53.873"W	0.88	
1562.00	15.640	262.650	1545.86	8.12	-7.98	-157.86	1640867.29	14554745.56	40°04'36.934"N	104°59'54.201"W	0.50	
1657.00	17.230	262.740	1636.98	11.56	-11.40	-184.52	1640840.65	14554742.15	40°04'36.900"N	104°59'54.544"W	1.67	
1752.00	17.930	265.640	1727.54	14.47	-14.29	-213.06	1640812.12	14554739.26	40°04'36.872"N	104°59'54.911"W	1.18	
1833.00	19.380	266.250	1804.28	16.32	-16.11	-238.90	1640786.29	14554737.43	40°04'36.854"N	104°59'55.243"W	1.81	LAST SURFACE MWD+IFR1 SURVEY
1890.00	18.620	265.150	1858.18	17.73	-17.50	-257.41	1640767.79	14554736.04	40°04'36.840"N	104°59'55.481"W	1.47	FIRST BHGE MWD+IFR1+SC SURVEY
1979.00	21.140	268.040	1941.87	19.50	-19.25	-287.61	1640737.60	14554734.29	40°04'36.823"N	104°59'55.870"W	3.04	
2068.00	22.180	269.400	2024.58	20.26	-19.98	-320.45	1640704.77	14554733.57	40°04'36.815"N	104°59'56.292"W	1.30	
2158.00	23.620	271.720	2107.49	19.92	-19.61	-355.46	1640669.77	14554733.93	40°04'36.819"N	104°59'56.743"W	1.89	
2247.00	25.010	271.510	2188.59	18.92	-18.58	-392.09	1640633.16	14554734.96	40°04'36.829"N	104°59'57.214"W	1.56	
2337.00	25.030	264.040	2270.17	20.43	-20.06	-430.06	1640595.21	14554733.48	40°04'36.815"N	104°59'57.702"W	3.51	
2426.00	23.820	259.550	2351.21	25.68	-25.27	-466.46	1640558.82	14554728.27	40°04'36.763"N	104°59'58.171"W	2.49	
2516.00	20.570	261.260	2434.53	31.41	-30.97	-499.97	1640525.32	14554722.57	40°04'36.707"N	104°59'58.602"W	3.68	
2606.00	19.950	263.140	2518.96	35.67	-35.21	-530.84	1640494.46	14554718.34	40°04'36.665"N	104°59'58.999"W	1.00	
2695.00	22.970	266.560	2601.79	38.56	-38.07	-563.26	1640462.06	14554715.48	40°04'36.637"N	104°59'59.416"W	3.67	
2785.00	24.950	265.410	2684.03	41.16	-40.64	-599.72	1640425.62	14554712.91	40°04'36.611"N	104°59'59.885"W	2.26	
2874.00	25.090	261.350	2764.68	45.54	-44.98	-637.08	1640388.27	14554708.57	40°04'36.568"N	105°00'00.365"W	1.94	
2964.00	26.520	257.010	2845.71	52.96	-52.37	-675.53	1640349.83	14554701.18	40°04'36.495"N	105°00'00.860"W	2.63	
3053.00	26.420	253.960	2925.39	62.93	-62.31	-713.93	1640311.46	14554691.25	40°04'36.397"N	105°00'01.354"W	1.53	
3143.00	24.580	254.340	3006.62	73.55	-72.89	-751.20	1640274.20	14554680.66	40°04'36.292"N	105°00'01.833"W	2.05	
3232.00	26.510	255.670	3086.91	83.49	-82.81	-788.27	1640237.14	14554670.75	40°04'36.194"N	105°00'02.310"W	2.26	
3322.00	25.710	254.050	3167.73	93.86	-93.14	-826.50	1640198.93	14554660.42	40°04'36.092"N	105°00'02.802"W	1.19	
3411.00	25.840	252.270	3247.87	105.11	-104.35	-863.54	1640161.91	14554649.21	40°04'35.981"N	105°00'03.279"W	0.88	
3501.00	25.740	254.510	3328.91	116.33	-115.55	-901.05	1640124.41	14554638.02	40°04'35.871"N	105°00'03.761"W	1.09	
3590.00	24.590	256.140	3409.46	125.96	-125.14	-937.66	1640087.82	14554628.43	40°04'35.776"N	105°00'04.232"W	1.51	
3680.00	21.990	259.180	3492.13	133.64	-132.79	-972.39	1640053.09	14554620.78	40°04'35.700"N	105°00'04.679"W	3.18	
3769.00	23.150	264.360	3574.32	138.52	-137.64	-1006.18	1640019.33	14554615.93	40°04'35.652"N	105°00'05.113"W	2.59	
3859.00	25.140	269.090	3656.45	140.59	-139.68	-1042.90	1639982.61	14554613.89	40°04'35.632"N	105°00'05.586"W	3.08	
3948.00	26.540	268.760	3736.55	141.36	-140.42	-1081.69	1639943.84	14554613.16	40°04'35.625"N	105°00'06.085"W	1.58	

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#34 MC 3-3HZ (1427'FSL & 312'FWL,SEC.03)
Area	COLORADO	Well	MC 3-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MC 3-3HZ AWB
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (221 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
4038.00	25.450	269.700	3817.44	141.93	-140.95	-1121.13	1639904.42	14554612.62	40°04'35.620"N	105°00'06.592"W	1.29	
4127.00	26.290	273.600	3897.53	140.83	-139.81	-1159.92	1639865.64	14554613.76	40°04'35.631"N	105°00'07.091"W	2.13	
4216.00	26.570	270.790	3977.23	139.35	-138.30	-1199.50	1639826.08	14554615.27	40°04'35.646"N	105°00'07.600"W	1.44	
4306.00	26.410	263.760	4057.80	141.28	-140.20	-1239.53	1639786.06	14554613.37	40°04'35.627"N	105°00'08.115"W	3.49	
4395.00	24.630	262.000	4138.11	146.05	-144.93	-1277.58	1639748.03	14554608.64	40°04'35.580"N	105°00'08.605"W	2.17	
4484.00	26.170	263.040	4218.51	151.04	-149.89	-1315.43	1639710.20	14554603.68	40°04'35.531"N	105°00'09.092"W	1.80	
4574.00	26.440	259.380	4299.19	157.17	-155.99	-1354.82	1639670.82	14554597.58	40°04'35.471"N	105°00'09.598"W	1.83	
4663.00	25.120	258.870	4379.33	164.51	-163.29	-1392.84	1639632.82	14554590.29	40°04'35.399"N	105°00'10.087"W	1.50	
4753.00	26.010	263.800	4460.53	170.36	-169.11	-1431.20	1639594.47	14554584.47	40°04'35.341"N	105°00'10.581"W	2.56	
4842.00	26.210	266.700	4540.45	173.63	-172.35	-1470.23	1639555.46	14554581.23	40°04'35.309"N	105°00'11.083"W	1.45	
4932.00	26.390	263.230	4621.14	177.17	-175.85	-1509.93	1639515.77	14554577.73	40°04'35.275"N	105°00'11.594"W	1.72	
5021.00	26.530	258.420	4700.83	183.52	-182.17	-1549.05	1639476.67	14554571.41	40°04'35.212"N	105°00'12.097"W	2.41	
5111.00	25.060	246.020	4781.92	195.35	-193.96	-1586.19	1639439.55	14554559.62	40°04'35.096"N	105°00'12.575"W	6.20	
5200.00	24.830	247.340	4862.61	210.24	-208.82	-1620.65	1639405.10	14554544.77	40°04'34.949"N	105°00'13.018"W	0.68	
5289.00	23.410	254.830	4943.86	222.10	-220.65	-1654.97	1639370.79	14554532.94	40°04'34.832"N	105°00'13.460"W	3.79	
5379.00	24.060	265.730	5026.29	228.18	-226.70	-1690.54	1639335.24	14554526.89	40°04'34.772"N	105°00'13.917"W	4.92	
5469.00	24.230	275.030	5108.44	227.95	-226.45	-1727.25	1639298.55	14554527.15	40°04'34.774"N	105°00'14.389"W	4.23	
5558.00	22.640	278.560	5190.10	223.83	-222.30	-1762.38	1639263.43	14554531.30	40°04'34.815"N	105°00'14.841"W	2.38	
5647.00	21.480	281.120	5272.59	218.17	-216.60	-1795.31	1639230.51	14554536.99	40°04'34.872"N	105°00'15.265"W	1.69	
5737.00	19.220	280.950	5356.97	212.20	-210.61	-1826.03	1639199.80	14554542.97	40°04'34.931"N	105°00'15.660"W	2.51	
5827.00	18.100	277.360	5442.24	207.62	-206.01	-1854.44	1639171.40	14554547.58	40°04'34.976"N	105°00'16.025"W	1.78	
5916.00	16.140	267.700	5527.31	206.37	-204.73	-1880.52	1639145.34	14554548.85	40°04'34.989"N	105°00'16.361"W	3.87	
6006.00	14.190	255.090	5614.19	209.73	-208.07	-1903.69	1639122.18	14554545.51	40°04'34.956"N	105°00'16.659"W	4.25	
6095.00	12.880	250.030	5700.72	215.95	-214.27	-1923.55	1639102.32	14554539.32	40°04'34.895"N	105°00'16.915"W	1.98	
6185.00	11.290	244.980	5788.73	223.11	-221.42	-1940.96	1639084.91	14554532.17	40°04'34.824"N	105°00'17.139"W	2.12	
6274.00	10.010	242.860	5876.19	230.34	-228.63	-1955.74	1639070.14	14554524.96	40°04'34.753"N	105°00'17.329"W	1.50	
6364.00	8.070	241.540	5965.07	236.93	-235.21	-1968.26	1639057.63	14554518.38	40°04'34.688"N	105°00'17.490"W	2.17	
6453.00	6.190	242.800	6053.38	242.11	-240.38	-1978.02	1639047.87	14554513.21	40°04'34.637"N	105°00'17.615"W	2.12	
6543.00	5.780	251.510	6142.89	245.77	-244.04	-1986.63	1639039.26	14554509.56	40°04'34.600"N	105°00'17.726"W	1.11	
6633.00	1.460	235.880	6232.69	247.86	-246.12	-1991.88	1639034.02	14554507.48	40°04'34.580"N	105°00'17.794"W	4.88	
6722.00	0.070	247.630	6321.68	248.52	-246.78	-1992.87	1639033.03	14554506.82	40°04'34.573"N	105°00'17.806"W	1.56	
6812.00	0.110	313.740	6411.68	248.48	-246.74	-1992.99	1639032.92	14554506.86	40°04'34.574"N	105°00'17.808"W	0.12	
6901.00	0.040	235.320	6500.68	248.44	-246.70	-1993.07	1639032.83	14554506.90	40°04'34.574"N	105°00'17.809"W	0.12	
6991.00	0.060	14.910	6590.68	248.41	-246.67	-1993.09	1639032.81	14554506.93	40°04'34.574"N	105°00'17.809"W	0.10	
7081.00	0.040	303.980	6680.68	248.34	-246.61	-1993.10	1639032.80	14554506.99	40°04'34.575"N	105°00'17.809"W	0.07	
7170.00	0.040	179.140	6769.68	248.36	-246.62	-1993.13	1639032.78	14554506.98	40°04'34.575"N	105°00'17.809"W	0.08	
7260.00	0.090	24.270	6859.68	248.32	-246.59	-1993.10	1639032.80	14554507.01	40°04'34.575"N	105°00'17.809"W	0.14	
7349.00	0.110	96.880	6948.68	248.27	-246.53	-1992.98	1639032.92	14554507.06	40°04'34.576"N	105°00'17.808"W	0.13	
7439.00	0.260	184.340	7038.68	248.49	-246.75	-1992.91	1639032.99	14554506.85	40°04'34.574"N	105°00'17.807"W	0.31	KOP
7528.00	10.200	182.490	7127.20	256.58	-254.84	-1993.27	1639032.63	14554498.76	40°04'34.494"N	105°00'17.811"W	11.17	
7618.00	18.670	185.570	7214.28	278.92	-277.18	-1995.02	1639030.88	14554476.43	40°04'34.273"N	105°00'17.834"W	9.45	
7708.00	27.670	182.350	7296.94	314.21	-312.47	-1997.28	1639028.63	14554441.15	40°04'33.924"N	105°00'17.863"W	10.10	
7797.00	36.310	179.330	7372.35	361.30	-359.56	-1997.82	1639028.09	14554394.08	40°04'33.459"N	105°00'17.870"W	9.87	
7887.00	45.740	179.260	7440.18	420.31	-418.56	-1997.09	1639028.82	14554335.10	40°04'32.876"N	105°00'17.860"W	10.48	
7976.00	55.120	181.950	7496.81	488.82	-487.08	-1997.92	1639027.99	14554266.62	40°04'32.199"N	105°00'17.871"W	10.79	

Actual Wellpath Report

MC 3-3HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#34 MC 3-3HZ (1427'FSL & 312'FWL,SEC.03)
Area	COLORADO	Well	MC 3-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MC 3-3HZ AWP
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (221 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
8052.00†	61.664	182.053	7536.62	553.47	-551.73	-2000.18	1639025.73	14554201.99	40°04'31.560"N	105°00'17.900"W	8.61	ENTER LANDBOX (875'FSL & 1688'FEL,SEC.04) 40.0754333 -105.0049722
8066.00	62.870	182.070	7543.14	565.86	-564.11	-2000.63	1639025.28	14554189.61	40°04'31.437"N	105°00'17.906"W	8.61	
8155.00	71.390	182.060	7577.70	647.73	-645.99	-2003.58	1639022.33	14554107.77	40°04'30.628"N	105°00'17.944"W	9.57	
8245.00	79.480	181.250	7600.31	734.73	-732.98	-2006.08	1639019.84	14554020.81	40°04'29.769"N	105°00'17.976"W	9.03	
8335.00	89.940	180.430	7608.60	824.22	-822.47	-2007.39	1639018.53	14553931.36	40°04'28.884"N	105°00'17.992"W	11.66	LANDING (605'FSL & 1695'FEL,SEC.04) 40.0746901 -105.0049979
8424.00	90.000	177.650	7608.64	913.19	-911.44	-2005.90	1639020.02	14553842.42	40°04'28.005"N	105°00'17.973"W	3.12	
8514.00	89.880	176.430	7608.74	1003.07	-1001.32	-2001.25	1639024.67	14553752.58	40°04'27.117"N	105°00'17.913"W	1.36	
8603.00	89.970	175.780	7608.85	1091.86	-1090.12	-1995.20	1639030.72	14553663.82	40°04'26.239"N	105°00'17.835"W	0.74	
8693.00	90.550	176.520	7608.45	1181.65	-1179.91	-1989.16	1639036.76	14553574.06	40°04'25.352"N	105°00'17.758"W	1.04	
8782.00	90.830	178.160	7607.37	1270.54	-1268.81	-1985.03	1639040.89	14553485.20	40°04'24.473"N	105°00'17.704"W	1.87	
8872.00	90.650	179.720	7606.21	1360.51	-1358.78	-1983.37	1639042.56	14553395.26	40°04'23.584"N	105°00'17.683"W	1.74	
8962.00	90.680	181.790	7605.17	1450.49	-1448.76	-1984.55	1639041.37	14553305.32	40°04'22.695"N	105°00'17.698"W	2.30	
9051.00	89.940	182.600	7604.69	1539.43	-1537.69	-1987.96	1639037.97	14553216.42	40°04'21.816"N	105°00'17.742"W	1.23	
9141.00	90.060	183.230	7604.69	1629.32	-1627.58	-1992.54	1639033.40	14553126.57	40°04'20.928"N	105°00'17.801"W	0.71	
9225.00†	89.947	182.314	7604.68	1713.22	-1711.48	-1996.60	1639029.34	14553042.71	40°04'20.099"N	105°00'17.853"W	1.10	EXIT RADIUS HEEL (284'FNL & 1685'FEL,SEC.09) 40.0722497 -105.0049591
9230.00	89.940	182.260	7604.69	1718.22	-1716.47	-1996.80	1639029.14	14553037.71	40°04'20.049"N	105°00'17.855"W	1.10	
9319.00	89.970	180.160	7604.76	1807.19	-1805.45	-1998.68	1639027.26	14552948.77	40°04'19.170"N	105°00'17.879"W	2.36	
9409.00	89.880	178.230	7604.87	1897.18	-1895.44	-1997.42	1639028.53	14552858.82	40°04'18.281"N	105°00'17.863"W	2.15	
9498.00	89.970	177.780	7604.99	1986.12	-1984.38	-1994.32	1639031.63	14552769.91	40°04'17.402"N	105°00'17.823"W	0.52	
9588.00	89.880	177.960	7605.11	2076.06	-2074.32	-1990.97	1639034.97	14552680.01	40°04'16.513"N	105°00'17.780"W	0.22	
9677.00	90.090	178.550	7605.13	2165.01	-2163.28	-1988.26	1639037.68	14552591.09	40°04'15.634"N	105°00'17.745"W	0.70	
9766.00	90.060	178.440	7605.01	2253.98	-2252.25	-1985.92	1639040.02	14552502.16	40°04'14.755"N	105°00'17.715"W	0.13	
9856.00	90.030	178.430	7604.94	2343.94	-2342.21	-1983.47	1639042.48	14552412.23	40°04'13.866"N	105°00'17.683"W	0.04	
9945.00	89.970	178.020	7604.94	2432.90	-2431.17	-1980.71	1639045.24	14552323.30	40°04'12.987"N	105°00'17.648"W	0.47	
10035.00	89.910	178.650	7605.04	2522.86	-2521.13	-1978.10	1639047.85	14552233.38	40°04'12.098"N	105°00'17.614"W	0.70	
10214.00	89.880	175.500	7605.37	2701.59	-2699.88	-1968.96	1639056.99	14552054.71	40°04'10.331"N	105°00'17.496"W	1.76	
10304.00	90.030	173.060	7605.44	2791.13	-2789.42	-1959.99	1639065.96	14551965.20	40°04'09.446"N	105°00'17.381"W	2.72	
10393.00	89.880	176.350	7605.51	2879.73	-2878.03	-1951.78	1639074.17	14551876.63	40°04'08.571"N	105°00'17.275"W	3.70	
10482.00	90.000	185.250	7605.60	2968.63	-2966.93	-1953.02	1639072.93	14551787.76	40°04'07.692"N	105°00'17.291"W	10.00	
10572.00	89.970	190.300	7605.62	3057.79	-3056.07	-1965.19	1639060.76	14551698.65	40°04'06.811"N	105°00'17.447"W	5.61	
10661.00	89.940	185.290	7605.69	3145.95	-3144.22	-1977.26	1639048.70	14551610.54	40°04'05.940"N	105°00'17.602"W	5.63	
10751.00	89.880	182.840	7605.83	3235.72	-3233.99	-1983.64	1639042.33	14551520.81	40°04'05.053"N	105°00'17.684"W	2.72	
10841.00	89.850	182.680	7606.05	3325.62	-3323.89	-1987.97	1639038.00	14551430.95	40°04'04.165"N	105°00'17.740"W	0.18	
10930.00	90.120	181.620	7606.07	3414.56	-3412.82	-1991.31	1639034.66	14551342.05	40°04'03.286"N	105°00'17.783"W	1.23	
11020.00	89.850	180.650	7606.09	3504.54	-3502.80	-1993.10	1639032.88	14551252.10	40°04'02.397"N	105°00'17.806"W	1.12	
11109.00	89.880	179.870	7606.30	3593.54	-3591.80	-1993.50	1639032.48	14551163.14	40°04'01.517"N	105°00'17.811"W	0.88	
11199.00	90.180	179.360	7606.26	3683.54	-3681.80	-1992.89	1639033.09	14551073.18	40°04'00.628"N	105°00'17.803"W	0.66	
11288.00	90.060	178.830	7606.07	3772.52	-3770.79	-1991.49	1639034.50	14550984.23	40°03'59.748"N	105°00'17.785"W	0.61	
11378.00	90.090	179.010	7605.95	3862.51	-3860.77	-1989.79	1639036.19	14550894.28	40°03'58.859"N	105°00'17.763"W	0.20	
11467.00	90.340	179.650	7605.62	3951.50	-3949.76	-1988.75	1639037.24	14550805.32	40°03'57.980"N	105°00'17.749"W	0.77	
11557.00	90.370	179.070	7605.06	4041.49	-4039.76	-1987.75	1639038.24	14550715.36	40°03'57.090"N	105°00'17.736"W	0.65	
11646.00	90.460	179.000	7604.42	4130.47	-4128.74	-1986.25	1639039.74	14550626.42	40°03'56.211"N	105°00'17.717"W	0.13	
11736.00	90.340	179.280	7603.79	4220.46	-4218.73	-1984.90	1639041.10	14550536.46	40°03'55.322"N	105°00'17.700"W	0.34	
11825.00	90.490	180.730	7603.14	4309.45	-4307.72	-1984.90	1639041.09	14550447.50	40°03'54.442"N	105°00'17.700"W	1.64	
11915.00	90.520	183.850	7602.35	4399.37	-4397.64	-1988.50	1639037.50	14550357.63	40°03'53.554"N	105°00'17.746"W	3.47	

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#34 MC 3-3HZ (1427'FSL & 312'FWL,SEC.03)
Area	COLORADO	Well	MC 3-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MC 3-3HZ AWB
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (221 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
12005.00	90.520	182.220	7601.53	4489.24	-4487.50	-1993.26	1639032.74	14550267.80	40°03'52.666"N	105°00'17.807"W	1.81	
12094.00	90.310	179.790	7600.89	4578.22	-4576.48	-1994.83	1639031.18	14550178.85	40°03'51.786"N	105°00'17.827"W	2.74	
12183.00	90.490	178.820	7600.27	4667.21	-4665.47	-1993.75	1639032.26	14550089.90	40°03'50.907"N	105°00'17.813"W	1.11	
12273.00	90.460	178.400	7599.52	4757.18	-4755.44	-1991.56	1639034.45	14549999.97	40°03'50.018"N	105°00'17.785"W	0.47	
12363.00	90.340	179.670	7598.89	4847.16	-4845.42	-1990.05	1639035.96	14549910.02	40°03'49.129"N	105°00'17.765"W	1.42	
12452.00	90.400	179.700	7598.32	4936.16	-4934.42	-1989.56	1639036.46	14549821.06	40°03'48.249"N	105°00'17.759"W	0.08	
12542.00	90.490	179.370	7597.62	5026.15	-5024.42	-1988.83	1639037.19	14549731.10	40°03'47.360"N	105°00'17.749"W	0.38	
12631.00	90.550	178.810	7596.81	5115.13	-5113.40	-1987.41	1639038.60	14549642.15	40°03'46.480"N	105°00'17.731"W	0.63	
12721.00	90.460	178.890	7596.02	5205.11	-5203.38	-1985.61	1639040.41	14549552.21	40°03'45.591"N	105°00'17.708"W	0.13	
12810.00	90.000	178.860	7595.66	5294.09	-5292.36	-1983.86	1639042.16	14549463.26	40°03'44.712"N	105°00'17.685"W	0.52	
12900.00	90.090	179.440	7595.59	5384.08	-5382.35	-1982.53	1639043.50	14549373.31	40°03'43.823"N	105°00'17.668"W	0.65	
12989.00	89.970	180.390	7595.54	5473.08	-5471.35	-1982.39	1639043.63	14549284.35	40°03'42.943"N	105°00'17.666"W	1.08	
13079.00	90.000	180.430	7595.57	5563.08	-5561.35	-1983.04	1639042.99	14549194.39	40°03'42.054"N	105°00'17.674"W	0.06	
13168.00	90.090	180.710	7595.50	5652.07	-5650.34	-1983.92	1639042.11	14549105.43	40°03'41.174"N	105°00'17.686"W	0.33	
13257.00	90.150	179.110	7595.31	5741.07	-5739.34	-1983.78	1639042.25	14549016.46	40°03'40.295"N	105°00'17.684"W	1.80	
13347.00	90.150	177.450	7595.07	5831.02	-5829.30	-1981.08	1639044.95	14548926.54	40°03'39.406"N	105°00'17.649"W	1.84	
13437.00	90.310	176.420	7594.71	5920.89	-5919.16	-1976.27	1639049.76	14548836.71	40°03'38.518"N	105°00'17.587"W	1.16	
13526.00	90.060	176.200	7594.43	6009.70	-6007.98	-1970.54	1639055.49	14548747.93	40°03'37.640"N	105°00'17.513"W	0.37	
13615.00	90.090	177.140	7594.31	6098.54	-6096.83	-1965.37	1639060.66	14548659.12	40°03'36.762"N	105°00'17.447"W	1.06	
13705.00	89.970	177.650	7594.26	6188.44	-6186.73	-1961.28	1639064.75	14548569.25	40°03'35.873"N	105°00'17.394"W	0.58	
13795.00	89.970	181.800	7594.31	6278.42	-6276.71	-1960.85	1639065.18	14548479.31	40°03'34.984"N	105°00'17.388"W	4.61	
13884.00	89.910	185.590	7594.40	6367.23	-6365.51	-1966.58	1639059.45	14548390.54	40°03'34.107"N	105°00'17.462"W	4.26	
13973.00	89.970	187.770	7594.50	6455.63	-6453.90	-1976.94	1639049.11	14548302.19	40°03'33.233"N	105°00'17.595"W	2.45	
14063.00	90.250	186.380	7594.32	6544.95	-6543.22	-1988.02	1639038.03	14548212.91	40°03'32.351"N	105°00'17.737"W	1.58	
14152.00	90.340	183.440	7593.86	6633.62	-6631.88	-1995.64	1639030.42	14548124.28	40°03'31.474"N	105°00'17.835"W	3.30	
14242.00	90.120	181.400	7593.50	6723.53	-6721.79	-1999.44	1639026.62	14548034.41	40°03'30.586"N	105°00'17.884"W	2.28	
14331.00	90.030	181.230	7593.39	6812.51	-6810.77	-2001.48	1639024.58	14547945.47	40°03'29.707"N	105°00'17.910"W	0.22	
14421.00	90.090	180.320	7593.29	6902.50	-6900.76	-2002.70	1639023.37	14547855.51	40°03'28.817"N	105°00'17.926"W	1.01	
14510.00	90.000	179.350	7593.22	6991.50	-6989.76	-2002.44	1639023.63	14547766.55	40°03'27.938"N	105°00'17.922"W	1.09	
14600.00	90.090	179.030	7593.15	7081.49	-7079.75	-2001.17	1639024.90	14547676.59	40°03'27.048"N	105°00'17.906"W	0.37	
14689.00	89.940	178.790	7593.13	7170.47	-7168.73	-1999.48	1639026.60	14547587.65	40°03'26.169"N	105°00'17.884"W	0.32	
14779.00	89.940	178.690	7593.22	7260.45	-7258.71	-1997.50	1639028.58	14547497.70	40°03'25.280"N	105°00'17.858"W	0.11	
14868.00	90.000	179.170	7593.27	7349.43	-7347.70	-1995.84	1639030.24	14547408.75	40°03'24.401"N	105°00'17.837"W	0.54	
14958.00	90.060	179.350	7593.22	7439.43	-7437.69	-1994.67	1639031.40	14547318.80	40°03'23.511"N	105°00'17.822"W	0.21	
15047.00	89.970	179.510	7593.20	7528.42	-7526.68	-1993.79	1639032.29	14547229.84	40°03'22.632"N	105°00'17.811"W	0.21	
15137.00	89.970	180.450	7593.25	7618.42	-7616.68	-1993.76	1639032.32	14547139.88	40°03'21.742"N	105°00'17.810"W	1.04	
15226.00	89.880	180.480	7593.36	7707.42	-7705.68	-1994.48	1639031.60	14547050.91	40°03'20.863"N	105°00'17.819"W	0.11	
15316.00	90.060	180.230	7593.41	7797.42	-7795.68	-1995.04	1639031.05	14546960.95	40°03'19.974"N	105°00'17.826"W	0.34	
15405.00	90.150	181.090	7593.25	7886.41	-7884.67	-1996.06	1639030.03	14546872.00	40°03'19.094"N	105°00'17.839"W	0.97	
15495.00	89.850	181.270	7593.25	7976.39	-7974.65	-1997.91	1639028.18	14546782.05	40°03'18.205"N	105°00'17.863"W	0.39	
15584.00	90.060	180.990	7593.32	8065.38	-8063.63	-1999.67	1639026.42	14546693.10	40°03'17.325"N	105°00'17.886"W	0.39	
15673.00	89.850	180.680	7593.39	8154.37	-8152.62	-2000.97	1639025.13	14546604.15	40°03'16.446"N	105°00'17.902"W	0.42	
15763.00	89.850	181.260	7593.62	8244.35	-8242.61	-2002.49	1639023.61	14546514.20	40°03'15.557"N	105°00'17.922"W	0.64	
15852.00	90.090	181.360	7593.67	8333.33	-8331.59	-2004.53	1639021.58	14546425.26	40°03'14.678"N	105°00'17.948"W	0.29	
15942.00	89.970	180.360	7593.62	8423.32	-8421.58	-2005.88	1639020.23	14546335.31	40°03'13.788"N	105°00'17.965"W	1.12	

Actual Wellpath Report

MC 3-3HZ AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#34 MC 3-3HZ (1427'FSL & 312'FWL,SEC.03)
Area	COLORADO	Well	MC 3-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MC 3-3HZ AWB
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (221 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
16031.00	90.000	179.990	7593.64	8512.32	-8510.58	-2006.15	1639019.96	14546246.34	40°03'12.909"N	105°00'17.968"W	0.42	
16121.00	90.060	179.840	7593.60	8602.32	-8600.58	-2006.01	1639020.10	14546156.38	40°03'12.019"N	105°00'17.967"W	0.18	
16210.00	89.940	179.900	7593.60	8691.32	-8689.57	-2005.81	1639020.30	14546067.41	40°03'11.140"N	105°00'17.964"W	0.15	
16300.00	89.910	179.320	7593.72	8781.32	-8779.57	-2005.20	1639020.91	14545977.45	40°03'10.250"N	105°00'17.956"W	0.65	
16389.00	90.090	179.180	7593.72	8870.31	-8868.56	-2004.03	1639022.08	14545888.50	40°03'09.371"N	105°00'17.941"W	0.26	
16479.00	90.030	178.590	7593.62	8960.29	-8958.55	-2002.28	1639023.83	14545798.55	40°03'08.482"N	105°00'17.918"W	0.66	
16568.00	90.150	178.680	7593.48	9049.26	-9047.52	-2000.16	1639025.95	14545709.61	40°03'07.602"N	105°00'17.891"W	0.17	
16658.00	90.000	179.360	7593.36	9139.25	-9137.51	-1998.62	1639027.50	14545619.66	40°03'06.713"N	105°00'17.871"W	0.77	
16747.00	90.000	179.400	7593.36	9228.24	-9226.50	-1997.66	1639028.46	14545530.70	40°03'05.834"N	105°00'17.859"W	0.04	
16837.00	89.940	179.960	7593.41	9318.24	-9316.50	-1997.16	1639028.97	14545440.74	40°03'04.944"N	105°00'17.852"W	0.63	
16926.00	89.940	181.010	7593.50	9407.24	-9405.50	-1997.91	1639028.21	14545351.78	40°03'04.065"N	105°00'17.862"W	1.18	
17016.00	90.030	181.720	7593.53	9497.21	-9495.47	-2000.06	1639026.07	14545261.84	40°03'03.176"N	105°00'17.889"W	0.80	
17106.00	89.910	181.300	7593.57	9587.18	-9585.44	-2002.43	1639023.71	14545171.91	40°03'02.287"N	105°00'17.919"W	0.49	
17195.00	90.030	181.210	7593.62	9676.16	-9674.42	-2004.38	1639021.76	14545082.97	40°03'01.407"N	105°00'17.944"W	0.17	
17285.00	90.060	180.930	7593.55	9766.15	-9764.40	-2006.06	1639020.08	14544993.02	40°03'00.518"N	105°00'17.966"W	0.31	
17374.00	89.940	180.220	7593.55	9855.14	-9853.40	-2006.95	1639019.19	14544904.06	40°02'59.639"N	105°00'17.977"W	0.81	
17464.00	90.000	180.640	7593.60	9945.14	-9943.39	-2007.63	1639018.52	14544814.10	40°02'58.749"N	105°00'17.986"W	0.47	
17553.00	90.000	181.250	7593.60	10034.13	-10032.38	-2009.09	1639017.05	14544725.15	40°02'57.870"N	105°00'18.005"W	0.69	
17643.00	90.060	181.240	7593.55	10124.11	-10122.36	-2011.05	1639015.10	14544635.21	40°02'56.981"N	105°00'18.030"W	0.07	
17732.00	90.030	181.280	7593.48	10213.09	-10211.34	-2013.01	1639013.15	14544546.26	40°02'56.101"N	105°00'18.055"W	0.06	
17822.00	90.090	180.920	7593.39	10303.08	-10301.32	-2014.73	1639011.42	14544456.32	40°02'55.212"N	105°00'18.077"W	0.41	
17911.00	90.030	182.400	7593.29	10392.04	-10390.28	-2017.31	1639008.85	14544367.39	40°02'54.333"N	105°00'18.110"W	1.66	
18001.00	90.370	181.930	7592.98	10481.98	-10480.22	-2020.71	1639005.45	14544277.49	40°02'53.444"N	105°00'18.154"W	0.64	
18092.00	90.740	180.230	7592.10	10572.95	-10571.19	-2022.43	1639003.74	14544186.55	40°02'52.545"N	105°00'18.176"W	1.91	
18182.00	90.680	179.570	7590.98	10662.95	-10661.19	-2022.27	1639003.90	14544096.60	40°02'51.656"N	105°00'18.174"W	0.74	
18271.00	90.120	179.390	7590.36	10751.94	-10750.18	-2021.46	1639004.71	14544007.64	40°02'50.776"N	105°00'18.163"W	0.66	
18361.00	90.220	177.720	7590.09	10841.90	-10840.15	-2019.19	1639006.98	14543917.71	40°02'49.887"N	105°00'18.134"W	1.86	
18450.00	88.920	176.610	7590.76	10930.79	-10929.03	-2014.79	1639011.38	14543828.86	40°02'49.009"N	105°00'18.077"W	1.92	
18630.00	89.660	175.920	7592.99	11110.38	-11108.63	-2003.07	1639023.10	14543649.33	40°02'47.234"N	105°00'17.926"W	0.56	
18719.00	89.750	177.280	7593.45	11199.21	-11197.47	-1997.79	1639028.38	14543560.52	40°02'46.356"N	105°00'17.858"W	1.53	
18809.00	89.480	177.310	7594.06	11289.11	-11287.37	-1993.54	1639032.63	14543470.66	40°02'45.468"N	105°00'17.803"W	0.30	
18898.00	89.480	177.670	7594.86	11378.01	-11376.28	-1989.64	1639036.53	14543381.79	40°02'44.589"N	105°00'17.753"W	0.40	
18988.00	90.120	179.320	7595.18	11467.98	-11466.25	-1987.28	1639038.89	14543291.86	40°02'43.700"N	105°00'17.723"W	1.97	
19077.00	90.000	179.900	7595.08	11556.97	-11555.24	-1986.67	1639039.50	14543202.90	40°02'42.821"N	105°00'17.715"W	0.67	
19167.00	90.180	180.490	7594.94	11646.97	-11645.24	-1986.98	1639039.20	14543112.93	40°02'41.931"N	105°00'17.719"W	0.69	
19190.00†	90.157	180.381	7594.87	11669.97	-11668.24	-1987.16	1639039.02	14543089.94	40°02'41.704"N	105°00'17.721"W	0.48	ENTER RADIUS TOE (367'FSL & 1607'FEL,SEC.16) 40.0449178 -105.0049225
19256.00	90.090	180.070	7594.73	11735.97	-11734.24	-1987.42	1639038.76	14543023.97	40°02'41.052"N	105°00'17.724"W	0.48	
19346.00	90.250	181.350	7594.47	11825.96	-11824.23	-1988.53	1639037.65	14542934.02	40°02'40.162"N	105°00'17.738"W	1.43	
19435.00	90.250	182.420	7594.08	11914.92	-11913.18	-1991.46	1639034.73	14542845.10	40°02'39.283"N	105°00'17.776"W	1.20	
19483.00	90.340	182.620	7593.83	11962.87	-11961.14	-1993.57	1639032.62	14542797.17	40°02'38.809"N	105°00'17.803"W	0.46	LAST BHGE MWD+IFR1+SC SURVEY
19507.00	90.340	182.620	7593.69	11986.85	-11985.11	-1994.67	1639031.52	14542773.20	40°02'38.573"N	105°00'17.817"W	0.00	PTB (50'FSL & 1614'FEL,SEC.16) 40.0440479 -105.0049492

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#34 MC 3-3HZ (1427'FSL & 312'FWL,SEC.03)
Area	COLORADO	Well	MC 3-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MC 3-3HZ AWB
Facility	SEC.03-T1N-R68W		

HOLE & CASING SECTIONS - Ref Wellbore: MC 3-3HZ AWB Ref Wellpath: MC 3-3HZ 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	26.00	1873.00	1847.00	26.00	1842.08	0.00	0.00	-17.06	-251.97

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.09-T1N-R68W	26.00	0.00	-29.94	1640995.16	14554753.54	40°04'37.013"N	104°59'52.555"W	polygon
SEC.16-T1N-R68W	26.00	0.00	-29.94	1640995.16	14554753.54	40°04'37.013"N	104°59'52.555"W	polygon
MC 3-3HZ BHL REV-1(50'FSL & 1625'FEL,SEC.16)	7604.00	-11985.47	-2006.08	1639020.11	14542772.85	40°02'38.569"N	105°00'17.964"W	point
MC 3-3HZ LANDBOX	7605.00	0.00	0.00	1641025.09	14554753.55	40°04'37.013"N	104°59'52.170"W	polygon
MC 3-3HZ RADIUS 1	7605.00	-1424.88	-1636.09	1639389.70	14553329.20	40°04'22.931"N	105°00'13.216"W	polygon
MC 3-3HZ RADIUS 2	7605.00	-12035.14	-1712.38	1639313.70	14542723.20	40°02'38.078"N	105°00'14.188"W	polygon
MC 3-3HZ HEEL REV-1(605'FSL & 1681'FEL,SEC.04)	7618.00	-819.56	-1996.24	1639029.67	14553934.27	40°04'28.913"N	105°00'17.849"W	point

WELLPATH COMPOSITION - Ref Wellbore: MC 3-3HZ AWB Ref Wellpath: MC 3-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	1833.00	Custom APC_ISCWSA REV 2 MWD+IFR1 (approximation)	Custom APC ISCWSA Rev-2 MWD+IFR1 <135 - 1833>	MC 3-3HZ AWB
1833.00	19483.00	Custom APC_ISCWSA REV 2 MWD+IFR1+SC (approximation)	BHGE Custom APC ISCWSA Rev-2 MWD+IFR1+SC <1890 - 19483>	MC 3-3HZ AWB
19483.00	19507.00	Blind Drilling (std)	Projection to bit	MC 3-3HZ AWB

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#34 MC 3-3HZ (1427'FSL & 312'FWL,SEC.03)
Area	COLORADO	Well	MC 3-3HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MC 3-3HZ AWB
Facility	SEC.03-T1N-R68W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
135.00	0.260	117.460	135.00	FIRST SURFACE MWD+IFR1 SURVEY
1833.00	19.380	266.250	1804.28	LAST SURFACE MWD+IFR1 SURVEY
1890.00	18.620	265.150	1858.18	FIRST BHGE MWD+IFR1+SC SURVEY
7439.00	0.260	184.340	7038.68	KOP
8052.00	61.664	182.053	7536.62	ENTER LANDBOX (875'FSL & 1688'FEL,SEC.04) 40.0754333 -105.0049722
8335.00	89.940	180.430	7608.60	LANDING (605'FSL & 1695'FEL,SEC.04) 40.0746901 -105.0049979
9225.00	89.947	182.314	7604.68	EXIT RADIUS HEEL (284'FNL & 1685'FEL,SEC.09) 40.0722497 -105.0049591
19190.00	90.157	180.381	7594.87	ENTER RADIUS TOE (367'FSL & 1607'FEL,SEC.16) 40.0449178 -105.0049225
19483.00	90.340	182.620	7593.83	LAST BHGE MWD+IFR1+SC SURVEY
19507.00	90.340	182.620	7593.69	PTB (50'FSL & 1614'FEL,SEC.16) 40.0440479 -105.0049492