



Actual Wellpath Report

JESTER 8N-14HZ AWP

Page 1 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#45 JESTER 8N-14HZ (1380'FNL & 265'FWL, SEC.15)
Area	COLORADO	Well	JESTER 8N-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	JESTER 8N-14HZ AWB <17007>
Facility	SEC.15-T3N-R67W		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 13 North, US feet	Software System	WellArchitect® 4.0.0
North Reference	True	User	Amarcar
Scale	0.999601	Report Generated	28/Jul/2015 at 12:23
Convergence at slot	0.07° East	Database/Source file	KERR MCGEE UTM/JESTER_8N-14HZ_AWB__17007_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	633.95	-1740.35	1672435.38	14610199.32	40°13'44.947"N	104°53'07.022"W
Facility Reference Pt			1674175.89	14609568.00	40°13'38.683"N	104°52'44.584"W
Field Reference Pt			1698235.31	14552047.82	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM

Calculation method	Minimum curvature	PRECISION 460 (20'KB) (RKB) to Facility Vertical Datum	4813.00ft
Horizontal Reference Pt	Slot	PRECISION 460 (20'KB) (RKB) to Mean Sea Level	4813.00ft
Vertical Reference Pt	PRECISION 460 (20'KB) (RKB)	PRECISION 460 (20'KB) (RKB) to Mud Line at Slot (SLOT#45 JESTER 8N-14HZ (1380'FNL & 265'FWL, SEC.15))	4813.00ft
MD Reference Pt	PRECISION 460 (20'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	91.85°

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Page 2 of 7

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Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	JESTER 8N-14HZ AWP <17007>
Facility	SEC.15-T3N-R67W		

WELLPATH DATA (166 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	69.300	0.00	0.00	0.00	0.00	40°13'44.947"N	104°53'07.022"W	0.00	
20.00	0.000	69.300	20.00	0.00	0.00	0.00	40°13'44.947"N	104°53'07.022"W	0.00	
128.00	1.100	69.300	127.99	0.96	0.37	0.97	40°13'44.951"N	104°53'07.009"W	1.02	BEGIN MWD SURVEYS
189.00	0.300	353.200	188.99	1.47	0.73	1.50	40°13'44.954"N	104°53'07.003"W	1.75	
251.00	0.400	292.000	250.99	1.25	0.97	1.28	40°13'44.957"N	104°53'07.006"W	0.59	
313.00	0.400	244.900	312.99	0.85	0.96	0.88	40°13'44.957"N	104°53'07.011"W	0.52	
376.00	0.700	169.200	375.98	0.74	0.49	0.76	40°13'44.952"N	104°53'07.012"W	1.14	
461.00	0.800	162.500	460.98	1.05	-0.58	1.03	40°13'44.941"N	104°53'07.009"W	0.16	
545.00	0.900	182.200	544.97	1.24	-1.80	1.18	40°13'44.929"N	104°53'07.007"W	0.37	
630.00	0.600	278.700	629.96	0.79	-2.40	0.72	40°13'44.923"N	104°53'07.013"W	1.34	
715.00	0.200	177.100	714.96	0.36	-2.48	0.28	40°13'44.922"N	104°53'07.018"W	0.79	
799.00	0.600	354.700	798.96	0.32	-2.19	0.25	40°13'44.925"N	104°53'07.019"W	0.95	TIE-ONTO MWD SURVEYS
937.00	0.430	48.130	936.96	0.61	-1.13	0.57	40°13'44.936"N	104°53'07.015"W	0.35	BEGIN BHI MWD+IFR SURVEYS
1032.00	1.620	208.820	1031.95	0.25	-2.06	0.19	40°13'44.927"N	104°53'07.020"W	2.14	
1126.00	3.300	195.840	1125.86	-1.00	-5.83	-1.19	40°13'44.889"N	104°53'07.037"W	1.87	
1220.00	5.300	191.930	1219.59	-2.42	-12.68	-2.83	40°13'44.822"N	104°53'07.058"W	2.15	
1315.00	6.920	192.390	1314.04	-4.23	-22.57	-4.96	40°13'44.724"N	104°53'07.086"W	1.71	
1409.00	7.070	199.110	1407.35	-6.98	-33.56	-8.07	40°13'44.615"N	104°53'07.126"W	0.88	
1503.00	8.600	196.650	1500.47	-10.49	-45.76	-11.98	40°13'44.495"N	104°53'07.176"W	1.67	
1597.00	10.030	199.420	1593.22	-14.76	-60.22	-16.72	40°13'44.352"N	104°53'07.238"W	1.59	
1688.00	11.790	195.520	1682.58	-19.35	-76.65	-21.84	40°13'44.190"N	104°53'07.304"W	2.10	
1778.00	13.090	195.770	1770.46	-23.97	-95.32	-27.07	40°13'44.005"N	104°53'07.371"W	1.45	
1867.00	12.360	191.950	1857.28	-28.07	-114.34	-31.78	40°13'43.817"N	104°53'07.432"W	1.25	
1957.00	12.060	190.600	1945.24	-31.19	-133.00	-35.50	40°13'43.633"N	104°53'07.480"W	0.46	
2047.00	11.400	197.720	2033.37	-35.05	-150.72	-39.94	40°13'43.458"N	104°53'07.537"W	1.77	
2137.00	10.260	196.320	2121.76	-39.48	-166.88	-44.90	40°13'43.298"N	104°53'07.601"W	1.30	
2226.00	9.090	193.140	2209.50	-42.84	-181.34	-48.73	40°13'43.155"N	104°53'07.650"W	1.44	
2316.00	8.100	190.580	2298.48	-45.19	-194.49	-51.51	40°13'43.025"N	104°53'07.686"W	1.18	
2406.00	7.720	188.880	2387.63	-46.90	-206.70	-53.60	40°13'42.904"N	104°53'07.713"W	0.50	
2496.00	7.620	185.580	2476.82	-48.02	-218.61	-55.12	40°13'42.787"N	104°53'07.733"W	0.50	
2586.00	7.410	185.290	2566.05	-48.76	-230.33	-56.23	40°13'42.671"N	104°53'07.747"W	0.24	
2675.00	5.450	189.250	2654.49	-49.65	-240.22	-57.44	40°13'42.573"N	104°53'07.763"W	2.26	
2765.00	3.020	191.450	2744.23	-50.59	-246.76	-58.60	40°13'42.509"N	104°53'07.778"W	2.71	
2855.00	0.670	216.420	2834.18	-51.29	-249.51	-59.38	40°13'42.481"N	104°53'07.788"W	2.70	
2945.00	0.580	226.270	2924.18	-51.91	-250.24	-60.02	40°13'42.474"N	104°53'07.796"W	0.16	
3304.00	1.230	240.690	3283.13	-56.47	-253.39	-64.70	40°13'42.443"N	104°53'07.856"W	0.19	
3663.00	2.210	227.680	3641.96	-64.74	-259.93	-73.17	40°13'42.378"N	104°53'07.965"W	0.29	
3842.00	0.510	156.140	3820.91	-66.87	-262.99	-75.40	40°13'42.348"N	104°53'07.994"W	1.18	
4201.00	0.660	301.820	4179.91	-67.97	-263.36	-76.52	40°13'42.345"N	104°53'08.008"W	0.31	
4560.00	1.140	280.610	4538.86	-73.29	-261.61	-81.78	40°13'42.362"N	104°53'08.076"W	0.16	
4919.00	0.950	287.880	4897.80	-79.68	-260.04	-88.13	40°13'42.377"N	104°53'08.158"W	0.06	
5278.00	0.730	269.020	5256.76	-84.82	-259.16	-93.24	40°13'42.386"N	104°53'08.224"W	0.10	
5638.00	0.180	310.090	5616.75	-87.56	-258.84	-95.97	40°13'42.389"N	104°53'08.259"W	0.17	
5997.00	0.400	272.480	5975.75	-89.25	-258.42	-97.65	40°13'42.393"N	104°53'08.281"W	0.08	
6266.00	0.770	264.110	6244.73	-91.98	-258.57	-100.39	40°13'42.392"N	104°53'08.316"W	0.14	

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Page 3 of 7

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Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	JESTER 8N-14HZ AWP <17007>
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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
6356.00	0.480	318.680	6334.73	-92.84	-258.34	-101.24	40°13'42.394"N	104°53'08.327"W	0.70	
6446.00	9.500	97.730	6424.33	-85.69	-259.06	-94.11	40°13'42.387"N	104°53'08.235"W	10.96	
6535.00	19.160	94.700	6510.46	-63.74	-261.25	-72.23	40°13'42.365"N	104°53'07.953"W	10.88	
6625.00	26.930	90.370	6593.22	-28.56	-262.60	-37.07	40°13'42.352"N	104°53'07.500"W	8.83	
6715.00	34.330	90.790	6670.61	17.25	-263.08	8.75	40°13'42.347"N	104°53'06.909"W	8.23	
6805.00	42.150	93.970	6741.25	72.89	-265.52	64.34	40°13'42.323"N	104°53'06.192"W	8.96	
6895.00	49.540	92.880	6803.90	137.39	-269.34	128.76	40°13'42.285"N	104°53'05.362"W	8.26	
6985.00	56.240	91.430	6858.18	209.12	-272.00	200.44	40°13'42.259"N	104°53'04.438"W	7.55	
7074.00	63.120	92.510	6903.08	285.90	-274.66	277.17	40°13'42.233"N	104°53'03.449"W	7.80	
7164.00	73.030	92.840	6936.64	369.28	-278.56	360.46	40°13'42.194"N	104°53'02.375"W	11.02	
7254.00	79.040	91.430	6958.35	456.57	-281.80	447.70	40°13'42.162"N	104°53'01.250"W	6.85	
7297.00	82.740	90.700	6965.16	499.02	-282.59	490.14	40°13'42.154"N	104°53'00.703"W	8.77	
7351.00†	86.329	90.782	6970.30	552.75	-283.28	543.88	40°13'42.148"N	104°53'00.010"W	6.65	7" CASING POINT
7396.00	89.320	90.850	6972.01	597.71	-283.92	588.84	40°13'42.141"N	104°52'59.430"W	6.65	
7485.00	89.660	90.690	6972.80	686.69	-285.12	677.83	40°13'42.129"N	104°52'58.283"W	0.42	
7575.00	89.630	91.240	6973.36	776.68	-286.63	767.82	40°13'42.114"N	104°52'57.123"W	0.61	
7665.00	89.720	92.460	6973.87	866.67	-289.54	857.77	40°13'42.086"N	104°52'55.963"W	1.36	
7755.00	88.120	91.210	6975.57	956.65	-292.42	947.70	40°13'42.057"N	104°52'54.804"W	2.26	
7844.00	88.000	91.270	6978.58	1045.60	-294.35	1036.63	40°13'42.038"N	104°52'53.657"W	0.15	
7934.00	88.980	90.940	6980.95	1135.56	-296.08	1126.58	40°13'42.021"N	104°52'52.497"W	1.15	
8024.00	90.370	91.010	6981.46	1225.54	-297.61	1216.56	40°13'42.006"N	104°52'51.337"W	1.55	
8114.00	91.020	90.910	6980.37	1315.52	-299.12	1306.54	40°13'41.991"N	104°52'50.177"W	0.73	
8203.00	91.230	90.580	6978.62	1404.49	-300.28	1395.52	40°13'41.979"N	104°52'49.030"W	0.44	
8293.00	90.000	89.800	6977.66	1494.45	-300.58	1485.51	40°13'41.976"N	104°52'47.870"W	1.62	
8383.00	88.520	87.750	6978.82	1584.30	-298.65	1575.47	40°13'41.995"N	104°52'46.710"W	2.81	
8473.00	88.340	87.890	6981.29	1674.04	-295.23	1665.37	40°13'42.029"N	104°52'45.551"W	0.25	
8563.00	88.430	88.220	6983.82	1763.81	-292.18	1755.29	40°13'42.059"N	104°52'44.392"W	0.38	
8652.00	88.770	89.270	6986.00	1852.65	-290.23	1844.24	40°13'42.078"N	104°52'43.245"W	1.24	
8742.00	89.380	89.810	6987.45	1942.57	-289.51	1934.22	40°13'42.085"N	104°52'42.085"W	0.91	
8832.00	90.220	91.060	6987.76	2032.54	-290.19	2024.22	40°13'42.079"N	104°52'40.924"W	1.67	
8922.00	90.460	90.730	6987.23	2122.52	-291.59	2114.20	40°13'42.065"N	104°52'39.764"W	0.45	
9011.00	89.290	91.400	6987.42	2211.51	-293.25	2203.19	40°13'42.048"N	104°52'38.617"W	1.51	
9101.00	87.780	92.640	6989.72	2301.48	-296.42	2293.10	40°13'42.017"N	104°52'37.458"W	2.17	
9191.00	87.660	93.080	6993.31	2391.39	-300.91	2382.91	40°13'41.972"N	104°52'36.300"W	0.51	
9281.00	88.520	93.050	6996.30	2481.32	-305.72	2472.73	40°13'41.925"N	104°52'35.142"W	0.96	
9370.00	89.540	92.990	6997.81	2570.29	-310.40	2561.60	40°13'41.878"N	104°52'33.996"W	1.15	
9460.00	90.090	91.810	6998.10	2660.28	-314.17	2651.51	40°13'41.841"N	104°52'32.837"W	1.45	
9550.00	90.000	91.840	6998.03	2750.28	-317.04	2741.47	40°13'41.813"N	104°52'31.677"W	0.11	
9640.00	89.630	91.210	6998.32	2840.28	-319.43	2831.44	40°13'41.789"N	104°52'30.517"W	0.81	
9730.00	88.580	90.530	6999.73	2930.25	-320.80	2921.41	40°13'41.775"N	104°52'29.357"W	1.39	
9819.00	89.350	91.050	7001.34	3019.22	-322.03	3010.39	40°13'41.763"N	104°52'28.210"W	1.04	
9909.00	90.280	90.890	7001.63	3109.21	-323.55	3100.37	40°13'41.748"N	104°52'27.050"W	1.05	
9999.00	91.200	92.150	7000.46	3199.20	-325.94	3190.33	40°13'41.724"N	104°52'25.890"W	1.73	
10088.00	90.860	93.840	6998.86	3288.16	-330.59	3279.19	40°13'41.678"N	104°52'24.744"W	1.94	
10183.00	90.400	93.410	6997.82	3383.11	-336.59	3374.00	40°13'41.619"N	104°52'23.522"W	0.66	

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Page 4 of 7

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10277.00	91.820	94.150	6996.00	3477.04	-342.79	3467.77	40°13'41.557"N	104°52'22.313"W	1.70	
10371.00	92.520	94.660	6992.44	3570.88	-350.00	3561.43	40°13'41.486"N	104°52'21.106"W	0.92	
10466.00	91.100	94.500	6989.44	3665.72	-357.59	3656.07	40°13'41.411"N	104°52'19.886"W	1.50	
10560.00	89.720	93.370	6988.77	3759.65	-364.04	3749.84	40°13'41.347"N	104°52'18.677"W	1.90	
10654.00	88.390	92.380	6990.32	3853.62	-368.75	3843.71	40°13'41.300"N	104°52'17.466"W	1.76	
10748.00	89.590	93.320	6991.97	3947.59	-373.42	3937.58	40°13'41.254"N	104°52'16.256"W	1.62	
10843.00	90.700	94.230	6991.73	4042.53	-379.68	4032.37	40°13'41.192"N	104°52'15.034"W	1.51	
10937.00	91.100	92.980	6990.26	4136.47	-385.59	4126.17	40°13'41.133"N	104°52'13.825"W	1.40	
11031.00	89.930	91.960	6989.41	4230.46	-389.64	4220.07	40°13'41.093"N	104°52'12.614"W	1.65	
11125.00	89.870	91.810	6989.58	4324.46	-392.73	4314.02	40°13'41.062"N	104°52'11.403"W	0.17	
11219.00	90.640	91.180	6989.16	4418.46	-395.18	4407.99	40°13'41.038"N	104°52'10.191"W	1.06	
11314.00	89.750	91.860	6988.83	4513.45	-397.70	4502.95	40°13'41.013"N	104°52'08.967"W	1.18	
11408.00	87.370	92.020	6991.20	4607.42	-400.88	4596.86	40°13'40.981"N	104°52'07.756"W	2.54	
11502.00	87.430	92.670	6995.46	4701.32	-404.73	4690.69	40°13'40.943"N	104°52'06.547"W	0.69	
11592.00	86.790	92.510	7000.00	4791.19	-408.79	4780.48	40°13'40.903"N	104°52'05.389"W	0.73	
11682.00	87.210	93.190	7004.71	4881.06	-413.26	4870.24	40°13'40.859"N	104°52'04.232"W	0.89	
11771.00	88.290	93.670	7008.20	4969.95	-418.58	4959.02	40°13'40.806"N	104°52'03.087"W	1.33	
11861.00	90.020	92.620	7009.53	5059.91	-423.51	5048.87	40°13'40.757"N	104°52'01.929"W	2.25	
11951.00	90.450	92.900	7009.16	5149.90	-427.85	5138.76	40°13'40.714"N	104°52'00.770"W	0.57	
12041.00	90.820	92.570	7008.16	5239.89	-432.14	5228.65	40°13'40.671"N	104°51'59.611"W	0.55	
12130.00	90.690	92.400	7006.99	5328.87	-436.00	5317.56	40°13'40.633"N	104°51'58.465"W	0.24	
12220.00	90.110	90.570	7006.36	5418.86	-438.33	5407.52	40°13'40.610"N	104°51'57.305"W	2.13	
12310.00	91.280	89.860	7005.27	5508.82	-438.67	5497.51	40°13'40.606"N	104°51'56.145"W	1.52	
12400.00	90.350	90.600	7003.99	5598.77	-439.03	5587.50	40°13'40.602"N	104°51'54.985"W	1.32	
12490.00	88.440	90.590	7004.94	5688.74	-439.97	5677.49	40°13'40.593"N	104°51'53.824"W	2.12	
12579.00	87.490	90.460	7008.10	5777.66	-440.78	5766.43	40°13'40.585"N	104°51'52.678"W	1.08	
12669.00	86.690	90.090	7012.67	5867.51	-441.21	5856.31	40°13'40.580"N	104°51'51.519"W	0.98	
12759.00	87.030	90.190	7017.60	5957.33	-441.43	5946.17	40°13'40.578"N	104°51'50.360"W	0.39	
12849.00	88.260	91.580	7021.30	6047.24	-442.82	6036.08	40°13'40.564"N	104°51'49.201"W	2.06	
12938.00	88.630	91.830	7023.71	6136.21	-445.47	6125.01	40°13'40.537"N	104°51'48.055"W	0.50	
13028.00	88.970	90.960	7025.60	6226.18	-447.66	6214.96	40°13'40.516"N	104°51'46.895"W	1.04	
13118.00	88.110	90.680	7027.89	6316.14	-448.95	6304.92	40°13'40.503"N	104°51'45.735"W	1.00	
13208.00	88.940	93.030	7030.21	6406.10	-451.86	6394.84	40°13'40.474"N	104°51'44.576"W	2.77	
13297.00	88.700	93.450	7032.04	6495.06	-456.89	6483.68	40°13'40.424"N	104°51'43.431"W	0.54	
13387.00	88.700	92.820	7034.08	6585.01	-461.81	6573.52	40°13'40.375"N	104°51'42.272"W	0.70	
13477.00	87.860	92.210	7036.78	6674.96	-465.76	6663.39	40°13'40.336"N	104°51'41.114"W	1.15	
13567.00	88.020	91.520	7040.02	6764.90	-468.68	6753.29	40°13'40.306"N	104°51'39.955"W	0.79	
13656.00	87.250	89.780	7043.69	6853.80	-469.69	6842.20	40°13'40.296"N	104°51'38.808"W	2.14	
13746.00	87.430	89.790	7047.87	6943.65	-469.35	6932.10	40°13'40.299"N	104°51'37.649"W	0.20	
13836.00	88.850	90.140	7050.79	7033.55	-469.30	7022.05	40°13'40.300"N	104°51'36.490"W	1.62	
13926.00	90.210	91.530	7051.53	7123.53	-470.61	7112.04	40°13'40.286"N	104°51'35.329"W	2.16	
14015.00	89.160	94.290	7052.02	7212.50	-475.13	7200.91	40°13'40.241"N	104°51'34.184"W	3.32	
14105.00	87.530	96.060	7054.62	7302.31	-483.24	7290.50	40°13'40.161"N	104°51'33.029"W	2.67	
14195.00	85.550	96.230	7060.05	7391.89	-492.86	7379.81	40°13'40.066"N	104°51'31.877"W	2.21	
14285.00	84.560	95.590	7067.81	7481.33	-502.09	7469.00	40°13'39.974"N	104°51'30.727"W	1.31	

Actual Wellpath Report

JESTER 8N-14HZ AWP

Page 5 of 7

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#45 JESTER 8N-14HZ (1380'FNL & 265'FWL, SEC.15)
Area	COLORADO	Well	JESTER 8N-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	JESTER 8N-14HZ AWP <17007>
Facility	SEC.15-T3N-R67W		

WELLPATH DATA (166 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
14375.00	83.880	93.570	7076.87	7570.76	-509.24	7558.25	40°13'39.903"N	104°51'29.577"W	2.36	
14464.00	84.650	91.920	7085.76	7659.30	-513.48	7646.70	40°13'39.861"N	104°51'28.436"W	2.04	
14554.00	86.660	90.490	7092.58	7749.03	-515.37	7736.42	40°13'39.842"N	104°51'27.280"W	2.74	
14644.00	88.910	91.140	7096.06	7838.94	-516.65	7826.33	40°13'39.829"N	104°51'26.120"W	2.60	
14734.00	91.220	91.690	7095.96	7928.93	-518.87	7916.30	40°13'39.807"N	104°51'24.961"W	2.64	
14823.00	92.240	92.270	7093.27	8017.89	-521.94	8005.20	40°13'39.776"N	104°51'23.814"W	1.32	
14913.00	91.930	93.550	7090.00	8107.81	-526.51	8095.03	40°13'39.731"N	104°51'22.656"W	1.46	
15003.00	91.370	93.680	7087.41	8197.73	-532.18	8184.81	40°13'39.675"N	104°51'21.499"W	0.64	
15093.00	89.930	94.210	7086.39	8287.66	-538.37	8274.59	40°13'39.613"N	104°51'20.341"W	1.70	
15182.00	88.720	93.780	7087.43	8376.59	-544.57	8363.36	40°13'39.552"N	104°51'19.197"W	1.44	
15272.00	89.460	94.430	7088.86	8466.51	-551.01	8453.12	40°13'39.488"N	104°51'18.040"W	1.09	
15362.00	88.570	95.410	7090.41	8556.37	-558.73	8542.77	40°13'39.411"N	104°51'16.884"W	1.47	
15452.00	85.340	94.130	7095.19	8646.11	-566.20	8632.32	40°13'39.337"N	104°51'15.729"W	3.86	
15542.00	84.500	92.720	7103.16	8735.72	-571.56	8721.80	40°13'39.284"N	104°51'14.576"W	1.82	
15631.00	83.700	89.810	7112.31	8824.23	-573.52	8810.30	40°13'39.264"N	104°51'13.435"W	3.37	
15721.00	83.950	88.680	7121.99	8913.62	-572.34	8899.77	40°13'39.275"N	104°51'12.281"W	1.28	
15811.00	85.680	86.700	7130.13	9003.00	-568.72	8989.32	40°13'39.311"N	104°51'11.127"W	2.91	
15900.00	87.260	84.370	7135.61	9091.29	-561.81	9077.87	40°13'39.379"N	104°51'09.985"W	3.16	
15990.00	88.520	86.790	7138.92	9180.68	-554.88	9167.54	40°13'39.447"N	104°51'08.829"W	3.03	
16080.00	88.280	91.240	7141.43	9270.51	-553.33	9257.47	40°13'39.462"N	104°51'07.670"W	4.95	
16170.00	89.720	93.340	7143.01	9360.49	-556.93	9347.37	40°13'39.426"N	104°51'06.511"W	2.83	
16259.00	90.030	92.570	7143.20	9449.47	-561.51	9436.25	40°13'39.380"N	104°51'05.365"W	0.93	
16349.00	90.610	93.170	7142.70	9539.45	-566.02	9526.14	40°13'39.336"N	104°51'04.206"W	0.93	
16439.00	91.050	92.090	7141.39	9629.43	-570.15	9616.03	40°13'39.294"N	104°51'03.047"W	1.30	
16529.00	89.720	92.330	7140.79	9719.43	-573.62	9705.96	40°13'39.260"N	104°51'01.888"W	1.50	
16619.00	90.000	92.150	7141.01	9809.43	-577.14	9795.89	40°13'39.225"N	104°51'00.728"W	0.37	
16708.00	90.220	92.640	7140.84	9898.42	-580.86	9884.81	40°13'39.188"N	104°50'59.582"W	0.60	
16798.00	90.090	92.100	7140.59	9988.42	-584.58	9974.74	40°13'39.150"N	104°50'58.422"W	0.62	
16888.00	90.460	92.280	7140.16	10078.41	-588.02	10064.67	40°13'39.116"N	104°50'57.263"W	0.46	
16935.00	90.520	92.590	7139.76	10125.41	-590.01	10111.62	40°13'39.096"N	104°50'56.658"W	0.67	LAST BHI MWD+HFR+MSA SURVEYS
17007.00	90.520	92.590	7139.11	10197.40	-593.27	10183.55	40°13'39.064"N	104°50'55.730"W	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: JESTER 8N-14HZ AWP <17007> Ref Wellpath: JESTER 8N-14HZ 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]
13.5in Open Hole	20.00	844.00	824.00	20.00	843.96	0.00	0.00	-1.76	0.26
9.625in Casing Surface	20.00	837.00	817.00	20.00	836.96	0.00	0.00	-1.82	0.25
8.75in Open Hole	844.00	7362.00	6518.00	843.96	6970.94	-1.76	0.26	-283.43	554.86
7in Casing Intermediate	20.00	7351.00	7331.00	20.00	6970.30	0.00	0.00	-283.28	543.88
6.125in Open Hole	7362.00	17007.00	9645.00	6970.94	7139.11	-283.43	554.86	-593.27	10183.55

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#45 JESTER 8N-14HZ (1380'FNL & 265'FWL, SEC.15)
Area	COLORADO	Well	JESTER 8N-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	JESTER 8N-14HZ AWB <17007>
Facility	SEC.15-T3N-R67W		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.14-T3N-R67W SECTION LINES	4813.00	59.81	-0.31	1672434.99	14610259.10	40°13'45.538"N	104°53'07.026"W	polygon
SEC.15-T3N-R67W SECTION LINES	4813.00	59.81	-0.31	1672434.99	14610259.10	40°13'45.538"N	104°53'07.026"W	polygon
JESTER 8N-14HZ BHL ON PLAT REV-1 (1729'FNL & 1'FEL, SEC.14)	7137.00	-563.99	10184.34	1682616.36	14609648.71	40°13'39.353"N	104°50'55.720"W	point
JESTER 8N-14HZ BHL REV-2 (1754'FNL & 1'FEL, SEC.14)	7137.00	-588.99	10184.34	1682616.39	14609623.73	40°13'39.106"N	104°50'55.720"W	point
JESTER 8N-14HZ LANDBOX	7137.00	0.00	0.00	1672435.38	14610199.31	40°13'44.947"N	104°53'07.022"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: JESTER 8N-14HZ AWB <17007>

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Ref Wellpath: JESTER 8N-14HZ AWP Log Name/Comment	Wellbore
20.00	799.00	Custom_APC_ISCWSA REV 2 MWD	CATHEDRAL MWD SURVEYS 13.5" <128-799>	JESTER 8N-14HZ AWB <17007>
799.00	7297.00	Custom APC_ISCWSA REV 2 MWD+IFR1 (approximation)	BHI MWD+IFR SURVEYS 8.75" <937-7297>	JESTER 8N-14HZ AWB <17007>
7297.00	16935.00	Custom APC_ISCWSA REV 2 MWD+IFR1+MSA (approximation)	BHI MWD+IFR+MSA SURVEYS 6.125" <7396-16935>	JESTER 8N-14HZ AWB <17007>
16935.00	17007.00	Blind Drilling (std)	Projection to bit	JESTER 8N-14HZ AWB <17007>



Actual Wellpath Report

JESTER 8N-14HZ AWP
Page 7 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#45 JESTER 8N-14HZ (1380'FNL & 265'FWL, SEC.15)
Area	COLORADO	Well	JESTER 8N-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	JESTER 8N-14HZ AWB <17007>
Facility	SEC.15-T3N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
128.00	1.100	69.300	127.99	BEGIN MWD SURVEYS
799.00	0.600	354.700	798.96	TIE-ONTO MWD SURVEYS
937.00	0.430	48.130	936.96	BEGIN BHI MWD+IFR SURVEYS
7351.00	86.329	90.782	6970.30	7" CASING POINT
16935.00	90.520	92.590	7139.76	LAST BHI MWD+IFR+MSA SURVEYS
17007.00	90.520	92.590	7139.11	PROJECTION TO BIT