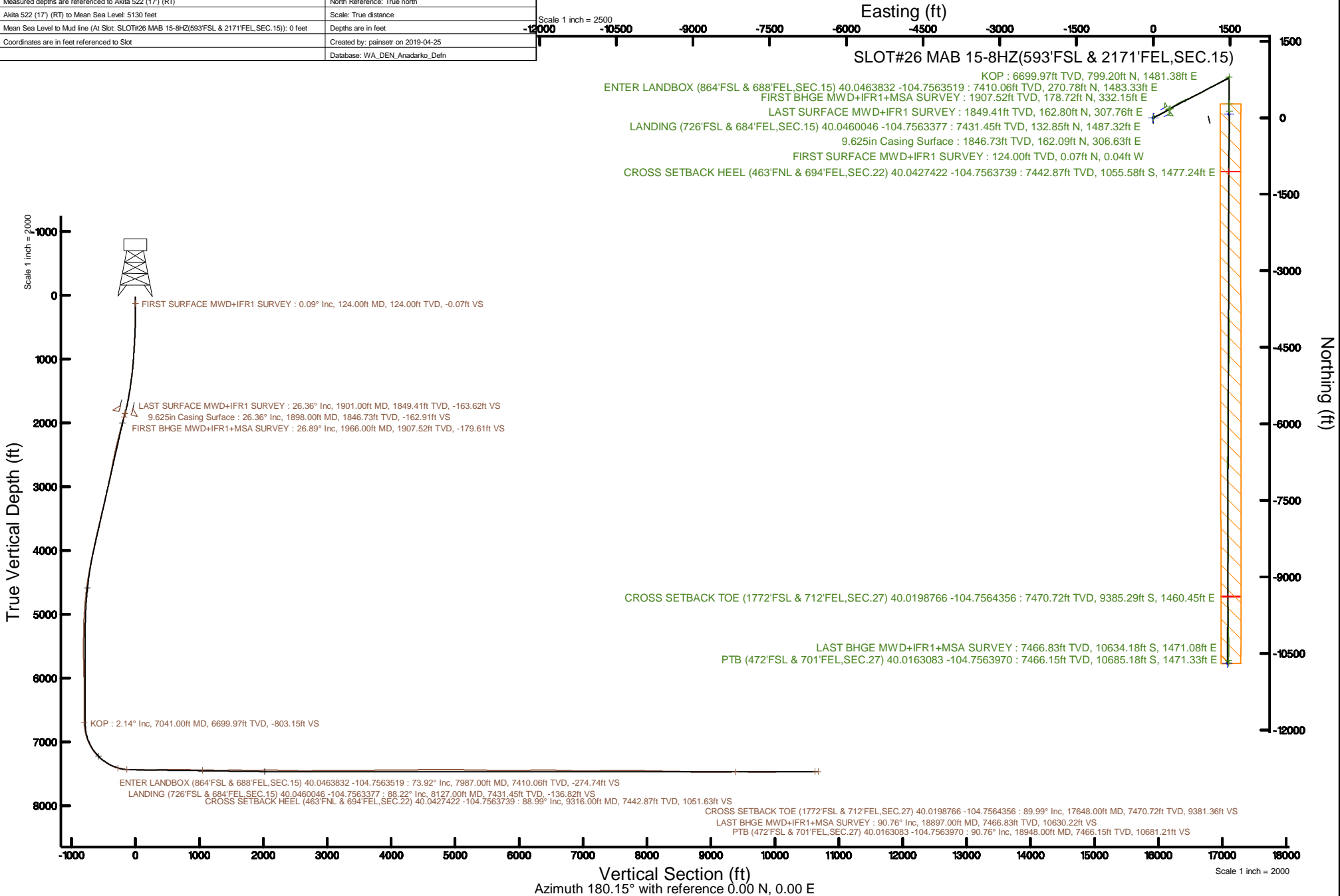


KERR-MCGEE OIL & GAS ONSHORE LP (WA)

Location: COLORADO Slot: SLOT#26 MAB 15-8HZ(593'FSL & 2171'FEL,SEC.15)  
Field: WELD COUNTY (UTM/TRUE NORTH) Well: MAB 15-8HZ  
Facility: SEC.15-T1N-R66W Wellbore: MAB 15-8HZ PWB

Plot reference wellpath is MAB 15-8HZ PWB Rev-A.1	Grid System: NAD83 / UTM Zone 13 North, US feet
True vertical depths are referenced to Akita 522 (17) (RT)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to Akita 522 (17) (RT)	North Reference: True north
Akita 522 (17) (RT) to Mean Sea Level: 5130 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#26 MAB 15-8HZ(593'FSL & 2171'FEL,SEC.15)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: painsetr on 2019-04-25
	Database: WA_DEN_Anadarko_Defn



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#26 MAB 15-8HZ(593'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-8HZ AWB
Facility	SEC.15-T1N-R66W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 13 North, US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Painsetr
Scale	0.999605	Report Generated	4/25/2019 at 12:08 PM
Convergence at slot	0.16° East	Database/Source file	WA_DEN_Anadarko_Defn/MAB_15-8HZ_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-674.49	1679.40	1707122.38	14543442.18	40°02'44.304"N	104°45'41.940"W
Facility Reference Pt			1705441.90	14544112.02	40°02'50.970"N	104°46'03.534"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	5130.00ft
Horizontal Reference Pt	Slot	Akita 522 (17") (RT) to Mean Sea Level	5130.00ft
Vertical Reference Pt	Akita 522 (17") (RT)	Akita 522 (17") (RT) to Mud Line at Slot (SLOT#26 MAB 15-8HZ (593'FSL & 2171'FEL,SEC.15))	5130.00ft
MD Reference Pt	Akita 522 (17") (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	180.15°

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#26 MAB 15-8HZ(593'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-8HZ AWB
Facility	SEC.15-T1N-R66W		

WELLPATH DATA (220 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	331.180	0.00	0.00	0.00	0.00	1707122.38	14543442.18	40°02'44.304"N	104°45'41.940"W	0.00	
17.00	0.000	331.180	17.00	0.00	0.00	0.00	1707122.38	14543442.18	40°02'44.304"N	104°45'41.940"W	0.00	
124.00	0.090	331.180	124.00	-0.07	0.07	-0.04	1707122.34	14543442.25	40°02'44.305"N	104°45'41.941"W	0.08	FIRST SURFACE MWD+IFR1 SURVEY
218.00	0.260	311.760	218.00	-0.28	0.28	-0.24	1707122.15	14543442.46	40°02'44.307"N	104°45'41.943"W	0.19	
314.00	0.970	41.670	313.99	-1.03	1.03	0.14	1707122.52	14543443.21	40°02'44.314"N	104°45'41.938"W	1.05	
409.00	2.200	50.640	408.96	-2.80	2.79	2.09	1707124.46	14543444.97	40°02'44.332"N	104°45'41.913"W	1.32	
504.00	3.650	61.890	503.83	-5.39	5.37	6.16	1707128.53	14543447.56	40°02'44.357"N	104°45'41.861"W	1.63	
599.00	5.490	59.950	598.52	-9.11	9.07	12.77	1707135.12	14543451.28	40°02'44.394"N	104°45'41.776"W	1.94	
694.00	5.800	61.180	693.06	-13.72	13.66	20.91	1707143.24	14543455.89	40°02'44.439"N	104°45'41.671"W	0.35	
788.00	6.770	61.620	786.50	-18.66	18.58	29.94	1707152.26	14543460.84	40°02'44.488"N	104°45'41.555"W	1.03	
883.00	8.960	67.070	880.60	-24.24	24.13	41.68	1707163.98	14543466.41	40°02'44.542"N	104°45'41.404"W	2.43	
979.00	11.030	68.830	975.14	-30.51	30.36	57.13	1707179.41	14543472.68	40°02'44.604"N	104°45'41.205"W	2.18	
1074.00	13.270	68.830	1068.00	-37.78	37.58	75.78	1707198.03	14543479.95	40°02'44.675"N	104°45'40.966"W	2.36	
1169.00	14.370	65.140	1160.25	-46.73	46.47	96.64	1707218.86	14543488.89	40°02'44.763"N	104°45'40.697"W	1.48	
1264.00	14.330	62.500	1252.29	-57.17	56.86	117.77	1707239.95	14543499.33	40°02'44.866"N	104°45'40.426"W	0.69	
1360.00	15.560	59.600	1345.04	-69.23	68.86	139.41	1707261.55	14543511.38	40°02'44.984"N	104°45'40.147"W	1.50	
1455.00	17.140	61.710	1436.20	-82.38	81.94	162.73	1707284.83	14543524.52	40°02'45.114"N	104°45'39.848"W	1.78	
1549.00	18.540	62.060	1525.68	-96.01	95.51	188.13	1707310.18	14543538.15	40°02'45.248"N	104°45'39.521"W	1.49	
1644.00	21.050	62.590	1615.06	-111.02	110.44	216.62	1707338.62	14543553.16	40°02'45.395"N	104°45'39.155"W	2.65	
1739.00	23.160	62.060	1703.07	-127.72	127.05	248.28	1707370.22	14543569.85	40°02'45.560"N	104°45'38.748"W	2.23	
1834.00	26.280	57.840	1789.36	-147.76	147.01	282.60	1707404.47	14543589.88	40°02'45.757"N	104°45'38.306"W	3.77	
1901.00	26.360	57.930	1849.41	-163.62	162.80	307.76	1707429.58	14543605.74	40°02'45.913"N	104°45'37.983"W	0.13	LAST SURFACE MWD+IFR1 SURVEY
1966.00	26.890	55.820	1907.52	-179.61	178.72	332.15	1707453.92	14543621.72	40°02'46.070"N	104°45'37.669"W	1.67	FIRST BHGE MWD+IFR1+MSA SURVEY
2053.00	26.020	54.460	1985.41	-201.84	200.87	363.95	1707485.65	14543643.94	40°02'46.289"N	104°45'37.260"W	1.22	
2140.00	27.280	58.970	2063.18	-223.30	222.24	396.57	1707518.20	14543665.39	40°02'46.500"N	104°45'36.841"W	2.74	
2228.00	26.900	58.270	2141.52	-244.25	243.10	430.78	1707552.34	14543686.34	40°02'46.706"N	104°45'36.401"W	0.56	
2315.00	25.630	57.730	2219.54	-264.74	263.50	463.43	1707584.92	14543706.82	40°02'46.908"N	104°45'35.981"W	1.49	
2403.00	26.360	61.970	2298.64	-284.17	282.85	496.77	1707618.20	14543726.24	40°02'47.099"N	104°45'35.552"W	2.27	
2491.00	25.210	61.980	2377.88	-302.25	300.83	530.56	1707651.93	14543744.31	40°02'47.277"N	104°45'35.118"W	1.31	
2579.00	26.290	64.410	2457.14	-319.56	318.05	564.69	1707685.99	14543761.62	40°02'47.447"N	104°45'34.679"W	1.72	
2666.00	25.400	63.440	2535.44	-336.32	334.72	598.75	1707720.00	14543778.37	40°02'47.612"N	104°45'34.241"W	1.13	
2754.00	25.720	67.520	2614.83	-352.15	350.46	633.28	1707754.47	14543794.19	40°02'47.767"N	104°45'33.797"W	2.03	
2842.00	27.320	68.160	2693.57	-367.06	365.28	669.67	1707790.81	14543809.10	40°02'47.914"N	104°45'33.329"W	1.85	
2930.00	26.030	67.430	2772.20	-382.08	380.20	706.25	1707827.33	14543824.12	40°02'48.061"N	104°45'32.859"W	1.51	
3018.00	27.610	65.690	2850.74	-397.99	396.01	742.67	1707863.69	14543840.01	40°02'48.217"N	104°45'32.390"W	2.00	
3122.00	25.270	64.130	2943.85	-417.71	415.62	784.61	1707905.57	14543859.73	40°02'48.411"N	104°45'31.851"W	2.35	
3210.00	26.070	63.420	3023.17	-434.65	432.46	818.80	1707939.70	14543876.66	40°02'48.578"N	104°45'31.411"W	0.97	
3297.00	27.080	63.760	3100.97	-452.05	449.77	853.66	1707974.50	14543894.06	40°02'48.749"N	104°45'30.963"W	1.17	
3384.00	25.460	62.340	3178.99	-469.58	467.21	887.99	1708008.77	14543911.58	40°02'48.921"N	104°45'30.522"W	2.00	
3472.00	27.570	61.980	3257.73	-488.02	485.56	922.72	1708043.44	14543930.02	40°02'49.102"N	104°45'30.075"W	2.40	
3559.00	25.630	60.570	3335.51	-506.82	504.27	956.89	1708077.54	14543948.80	40°02'49.287"N	104°45'29.636"W	2.34	
3647.00	26.190	60.940	3414.67	-525.70	523.05	990.44	1708111.03	14543967.67	40°02'49.473"N	104°45'29.204"W	0.66	
3734.00	25.930	60.650	3492.82	-544.43	541.70	1023.80	1708144.33	14543986.40	40°02'49.657"N	104°45'28.775"W	0.33	
3821.00	27.090	62.480	3570.68	-563.00	560.18	1057.95	1708178.41	14544004.96	40°02'49.840"N	104°45'28.336"W	1.63	
3909.00	25.250	60.830	3649.65	-581.50	578.59	1092.11	1708212.51	14544023.46	40°02'50.021"N	104°45'27.897"W	2.25	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#26 MAB 15-8HZ(593'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-8HZ AWB
Facility	SEC.15-T1N-R66W		

WELLPATH DATA (220 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
3996.00	26.480	63.000	3727.94	-599.44	596.44	1125.60	1708245.94	14544041.39	40°02'50.198"N	104°45'27.466"W	1.78	
4084.00	23.510	61.320	3807.69	-616.86	613.77	1158.49	1708278.76	14544058.80	40°02'50.369"N	104°45'27.044"W	3.47	
4171.00	24.170	63.290	3887.27	-633.28	630.11	1189.62	1708309.84	14544075.21	40°02'50.531"N	104°45'26.643"W	1.19	
4259.00	25.460	63.120	3967.14	-650.02	646.76	1222.59	1708342.75	14544091.95	40°02'50.695"N	104°45'26.219"W	1.47	
4346.00	25.630	63.030	4045.63	-667.10	663.74	1256.04	1708376.14	14544109.02	40°02'50.863"N	104°45'25.789"W	0.20	
4433.00	22.870	61.530	4124.95	-683.78	680.34	1287.68	1708407.72	14544125.69	40°02'51.027"N	104°45'25.382"W	3.25	
4521.00	22.330	59.950	4206.19	-700.38	696.86	1317.18	1708437.17	14544142.29	40°02'51.190"N	104°45'25.003"W	0.92	
4609.00	19.550	59.850	4288.37	-716.22	712.63	1344.39	1708464.32	14544158.12	40°02'51.346"N	104°45'24.653"W	3.16	
4697.00	19.180	59.890	4371.40	-730.93	727.28	1369.62	1708489.51	14544172.83	40°02'51.491"N	104°45'24.329"W	0.42	
4785.00	17.690	59.760	4454.88	-744.98	741.27	1393.68	1708513.52	14544186.88	40°02'51.629"N	104°45'24.019"W	1.69	
4872.00	15.180	58.820	4538.32	-757.60	753.82	1414.85	1708534.65	14544199.48	40°02'51.753"N	104°45'23.747"W	2.90	
4960.00	11.410	58.400	4623.94	-768.17	764.35	1432.13	1708551.89	14544210.06	40°02'51.857"N	104°45'23.525"W	4.29	
5047.00	9.620	55.300	4709.48	-776.86	773.00	1445.43	1708565.17	14544218.74	40°02'51.943"N	104°45'23.354"W	2.16	
5135.00	8.870	51.910	4796.34	-785.26	781.37	1456.82	1708576.53	14544227.13	40°02'52.025"N	104°45'23.207"W	1.05	
5222.00	6.930	55.920	4882.51	-792.36	788.45	1466.45	1708586.13	14544234.24	40°02'52.095"N	104°45'23.084"W	2.32	
5310.00	6.670	53.800	4969.89	-798.38	794.44	1474.97	1708594.63	14544240.25	40°02'52.154"N	104°45'22.974"W	0.41	
5399.00	4.890	48.470	5058.43	-803.97	800.01	1481.98	1708601.63	14544245.84	40°02'52.209"N	104°45'22.884"W	2.09	
5485.00	2.460	65.340	5144.25	-807.18	803.21	1486.40	1708606.04	14544249.05	40°02'52.241"N	104°45'22.827"W	3.06	
5573.00	1.730	1.660	5232.20	-809.30	805.33	1488.15	1708607.79	14544251.17	40°02'52.262"N	104°45'22.804"W	2.61	
5661.00	0.050	195.390	5320.19	-810.59	806.62	1488.18	1708607.81	14544252.46	40°02'52.275"N	104°45'22.804"W	2.02	
5748.00	2.110	9.550	5407.17	-812.13	808.16	1488.44	1708608.06	14544254.00	40°02'52.290"N	104°45'22.801"W	2.48	
5836.00	0.290	127.920	5495.15	-813.60	809.62	1488.88	1708608.50	14544255.46	40°02'52.304"N	104°45'22.795"W	2.57	
5923.00	0.190	83.090	5582.15	-813.48	809.51	1489.20	1708608.82	14544255.34	40°02'52.303"N	104°45'22.791"W	0.24	
6010.00	1.850	199.450	5669.14	-812.17	808.20	1488.88	1708608.50	14544254.04	40°02'52.290"N	104°45'22.795"W	2.23	
6115.00	1.550	184.590	5774.09	-809.16	805.19	1488.20	1708607.83	14544251.02	40°02'52.261"N	104°45'22.804"W	0.51	
6202.00	1.310	188.250	5861.06	-807.00	803.03	1487.96	1708607.60	14544248.87	40°02'52.239"N	104°45'22.807"W	0.30	
6290.00	1.000	194.940	5949.04	-805.26	801.29	1487.62	1708607.26	14544247.13	40°02'52.222"N	104°45'22.811"W	0.38	
6377.00	0.730	193.860	6036.03	-803.99	800.02	1487.29	1708606.94	14544245.86	40°02'52.210"N	104°45'22.816"W	0.31	
6464.00	0.780	211.650	6123.03	-802.94	798.98	1486.85	1708606.50	14544244.81	40°02'52.199"N	104°45'22.821"W	0.27	
6552.00	0.770	220.050	6211.02	-801.98	798.01	1486.15	1708605.80	14544243.85	40°02'52.190"N	104°45'22.830"W	0.13	
6727.00	0.760	270.520	6386.01	-801.09	797.12	1484.23	1708603.89	14544242.96	40°02'52.181"N	104°45'22.855"W	0.37	
6815.00	0.750	301.800	6474.00	-801.39	797.43	1483.16	1708602.82	14544243.26	40°02'52.184"N	104°45'22.869"W	0.46	
6902.00	0.950	326.800	6560.99	-802.29	798.34	1482.28	1708601.94	14544244.16	40°02'52.193"N	104°45'22.880"W	0.48	
6990.00	1.060	338.980	6648.98	-803.66	799.71	1481.59	1708601.24	14544245.53	40°02'52.206"N	104°45'22.889"W	0.27	
7041.00†	2.141	182.613	6699.97	-803.15	799.20	1481.38	1708601.03	14544245.02	40°02'52.201"N	104°45'22.892"W	6.16	KOP
7078.00	4.410	178.600	6736.90	-801.04	797.08	1481.38	1708601.04	14544242.91	40°02'52.181"N	104°45'22.891"W	6.16	
7165.00	11.440	182.990	6823.02	-789.06	785.11	1481.01	1708600.70	14544230.93	40°02'52.062"N	104°45'22.896"W	8.10	
7252.00	16.030	178.960	6907.51	-768.42	764.47	1480.78	1708600.52	14544210.30	40°02'51.858"N	104°45'22.899"W	5.39	
7340.00	22.610	180.010	6990.51	-739.33	735.37	1481.00	1708600.82	14544181.22	40°02'51.571"N	104°45'22.896"W	7.49	
7427.00	29.380	178.460	7068.66	-701.23	697.27	1481.57	1708601.49	14544143.14	40°02'51.194"N	104°45'22.889"W	7.82	
7515.00	35.720	178.890	7142.80	-653.92	649.96	1482.65	1708602.70	14544095.85	40°02'50.727"N	104°45'22.875"W	7.21	
7602.00	43.940	180.920	7209.56	-598.25	594.29	1482.66	1708602.85	14544040.20	40°02'50.176"N	104°45'22.875"W	9.56	
7689.00	49.680	181.720	7269.08	-534.86	530.91	1481.17	1708601.54	14543976.83	40°02'49.550"N	104°45'22.894"W	6.63	
7777.00	56.780	179.740	7321.73	-464.42	460.47	1480.33	1708600.89	14543906.42	40°02'48.854"N	104°45'22.905"W	8.27	
7865.00	63.810	179.670	7365.31	-388.04	384.08	1480.73	1708601.49	14543830.07	40°02'48.099"N	104°45'22.900"W	7.99	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#26 MAB 15-8HZ(593'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-8HZ AWB
Facility	SEC.15-T1N-R66W		

WELLPATH DATA (220 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
7952.00	70.190	178.170	7399.28	-308.01	304.06	1482.26	1708603.24	14543750.08	40°02'47.308"N	104°45'22.881"W	7.50	
7987.00†	73.923	178.166	7410.06	-274.74	270.78	1483.33	1708604.39	14543716.82	40°02'46.980"N	104°45'22.867"W	10.67	ENTER LANDBOX (864'FSL & 688'FEL,SEC.15) 40.0463832 -104.7563519
8039.00	79.470	178.160	7422.03	-224.19	220.22	1484.95	1708606.15	14543666.29	40°02'46.480"N	104°45'22.846"W	10.67	
8127.00	88.220	178.730	7431.45	-136.82	132.85	1487.32	1708608.75	14543578.95	40°02'45.616"N	104°45'22.816"W	9.96	LANDING (726'FSL & 684'FEL,SEC.15) 40.0460046 -104.7563377
8214.00	87.640	178.010	7434.59	-49.92	45.94	1489.79	1708611.45	14543492.09	40°02'44.758"N	104°45'22.784"W	1.06	
8302.00	89.640	180.420	7436.68	38.03	-42.01	1490.99	1708612.89	14543404.17	40°02'43.888"N	104°45'22.769"W	3.56	
8389.00	89.470	179.810	7437.36	125.03	-129.01	1490.82	1708612.95	14543317.21	40°02'43.029"N	104°45'22.771"W	0.73	
8477.00	88.880	181.100	7438.63	213.02	-217.00	1490.12	1708612.49	14543229.26	40°02'42.159"N	104°45'22.780"W	1.61	
8564.00	91.190	181.710	7438.57	299.99	-303.96	1487.99	1708610.59	14543142.32	40°02'41.300"N	104°45'22.807"W	2.75	
8651.00	91.320	181.050	7436.67	386.95	-390.92	1485.89	1708608.73	14543055.39	40°02'40.440"N	104°45'22.834"W	0.77	
8738.00	91.410	180.390	7434.59	473.92	-477.89	1484.80	1708607.87	14542968.46	40°02'39.581"N	104°45'22.849"W	0.77	
8825.00	91.240	179.220	7432.58	560.89	-564.86	1485.10	1708608.39	14542881.52	40°02'38.721"N	104°45'22.845"W	1.36	
8913.00	90.410	180.910	7431.32	648.88	-652.85	1485.00	1708608.53	14542793.57	40°02'37.852"N	104°45'22.846"W	2.14	
9001.00	88.140	180.970	7432.43	736.86	-740.82	1483.55	1708607.32	14542705.62	40°02'36.983"N	104°45'22.865"W	2.58	
9088.00	87.390	181.070	7435.82	823.78	-827.74	1482.01	1708606.01	14542618.73	40°02'36.124"N	104°45'22.885"W	0.87	
9175.00	88.480	181.330	7438.96	910.71	-914.67	1480.18	1708604.42	14542531.84	40°02'35.265"N	104°45'22.908"W	1.29	
9263.00	88.150	181.050	7441.54	998.66	-1002.61	1478.36	1708602.83	14542443.93	40°02'34.396"N	104°45'22.932"W	0.49	
9316.00†	88.991	181.367	7442.87	1051.63	-1055.58	1477.24	1708601.85	14542390.97	40°02'33.872"N	104°45'22.946"W	1.70	CROSS SETBACK HEEL (463'FNL & 694'FEL,SEC.22) 40.0427422 -104.7563739
9350.00	89.530	181.570	7443.31	1085.62	-1089.56	1476.37	1708601.07	14542357.00	40°02'33.536"N	104°45'22.957"W	1.70	
9438.00	89.840	181.000	7443.79	1173.60	-1177.54	1474.40	1708599.34	14542269.05	40°02'32.667"N	104°45'22.983"W	0.74	
9525.00	89.250	179.340	7444.48	1260.59	-1264.53	1474.14	1708599.31	14542182.09	40°02'31.807"N	104°45'22.986"W	2.02	
9612.00	90.330	179.430	7444.80	1347.58	-1351.53	1475.07	1708600.48	14542095.14	40°02'30.947"N	104°45'22.974"W	1.25	
9700.00	90.450	179.410	7444.20	1435.57	-1439.52	1475.96	1708601.60	14542007.18	40°02'30.078"N	104°45'22.963"W	0.14	
9787.00	90.360	178.660	7443.58	1522.56	-1526.51	1477.43	1708603.30	14541920.24	40°02'29.218"N	104°45'22.944"W	0.87	
9875.00	89.580	182.050	7443.63	1610.54	-1614.49	1476.88	1708602.99	14541832.29	40°02'28.349"N	104°45'22.951"W	3.95	
9962.00	89.440	181.090	7444.38	1697.51	-1701.45	1474.50	1708600.84	14541745.35	40°02'27.489"N	104°45'22.982"W	1.12	
10050.00	89.440	180.840	7445.24	1785.50	-1789.44	1473.02	1708599.60	14541657.40	40°02'26.620"N	104°45'23.001"W	0.28	
10137.00	89.990	181.770	7445.67	1872.48	-1876.41	1471.03	1708597.85	14541570.45	40°02'25.760"N	104°45'23.027"W	1.24	
10225.00	91.300	179.970	7444.68	1960.46	-1964.39	1469.70	1708596.75	14541482.51	40°02'24.891"N	104°45'23.044"W	2.53	
10312.00	89.820	179.880	7443.83	2047.45	-2051.38	1469.81	1708597.09	14541395.55	40°02'24.031"N	104°45'23.042"W	1.70	
10399.00	90.410	180.490	7443.65	2134.45	-2138.38	1469.53	1708597.05	14541308.58	40°02'23.172"N	104°45'23.046"W	0.98	
10487.00	89.040	180.410	7444.07	2222.45	-2226.38	1468.84	1708596.59	14541220.62	40°02'22.302"N	104°45'23.055"W	1.56	
10574.00	88.950	180.190	7445.60	2309.43	-2313.36	1468.39	1708596.37	14541133.67	40°02'21.442"N	104°45'23.061"W	0.27	
10662.00	88.680	180.090	7447.42	2397.41	-2401.34	1468.17	1708596.39	14541045.73	40°02'20.573"N	104°45'23.064"W	0.33	
10749.00	88.510	179.780	7449.55	2484.39	-2488.32	1468.27	1708596.72	14540958.79	40°02'19.713"N	104°45'23.063"W	0.41	
10837.00	89.640	180.040	7450.97	2572.37	-2576.30	1468.41	1708597.09	14540870.84	40°02'18.844"N	104°45'23.061"W	1.32	
10924.00	89.590	180.440	7451.56	2659.37	-2663.30	1468.04	1708596.96	14540783.87	40°02'17.984"N	104°45'23.066"W	0.46	
11012.00	91.010	179.800	7451.10	2747.37	-2751.30	1467.86	1708597.01	14540695.91	40°02'17.115"N	104°45'23.068"W	1.77	
11100.00	91.300	179.790	7449.32	2835.35	-2839.28	1468.17	1708597.56	14540607.97	40°02'16.245"N	104°45'23.064"W	0.33	
11187.00	90.870	178.960	7447.68	2922.32	-2926.26	1469.12	1708598.74	14540521.02	40°02'15.386"N	104°45'23.052"W	1.07	
11275.00	90.420	178.380	7446.69	3010.29	-3014.23	1471.16	1708601.02	14540433.10	40°02'14.516"N	104°45'23.026"W	0.83	
11362.00	89.680	179.930	7446.61	3097.27	-3101.21	1472.45	1708602.54	14540346.15	40°02'13.657"N	104°45'23.009"W	1.97	
11450.00	89.480	179.400	7447.26	3185.26	-3189.21	1472.96	1708603.29	14540258.19	40°02'12.787"N	104°45'23.003"W	0.64	
11537.00	89.840	180.500	7447.77	3272.26	-3276.21	1473.04	1708603.60	14540171.23	40°02'11.927"N	104°45'23.002"W	1.33	
11625.00	89.360	179.760	7448.39	3360.26	-3364.20	1472.84	1708603.63	14540083.26	40°02'11.058"N	104°45'23.004"W	1.00	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#26 MAB 15-8HZ(593'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-8HZ AWB
Facility	SEC.15-T1N-R66W		

WELLPATH DATA (220 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
11712.00	89.610	180.250	7449.17	3447.25	-3451.20	1472.83	1708603.86	14539996.30	40°02'10.198"N	104°45'23.005"W	0.63	
11799.00	91.090	179.720	7448.64	3534.25	-3538.20	1472.85	1708604.11	14539909.34	40°02'09.338"N	104°45'23.004"W	1.81	
11887.00	91.120	179.330	7446.94	3622.23	-3626.18	1473.58	1708605.08	14539821.40	40°02'08.469"N	104°45'22.995"W	0.44	
11975.00	91.380	178.890	7445.02	3710.19	-3714.14	1474.95	1708606.68	14539733.47	40°02'07.599"N	104°45'22.978"W	0.58	
12062.00	91.620	178.390	7442.74	3797.13	-3801.09	1477.01	1708608.97	14539646.56	40°02'06.740"N	104°45'22.951"W	0.64	
12150.00	89.880	179.220	7441.59	3885.10	-3889.06	1478.85	1708611.04	14539558.63	40°02'05.871"N	104°45'22.928"W	2.19	
12237.00	89.950	178.670	7441.72	3972.08	-3976.04	1480.45	1708612.88	14539471.69	40°02'05.011"N	104°45'22.907"W	0.64	
12325.00	90.180	178.280	7441.62	4060.04	-4064.01	1482.79	1708615.45	14539383.76	40°02'04.142"N	104°45'22.877"W	0.51	
12412.00	89.950	179.520	7441.52	4147.01	-4150.99	1484.46	1708617.36	14539296.82	40°02'03.282"N	104°45'22.856"W	1.45	
12500.00	89.960	178.990	7441.59	4235.00	-4238.99	1485.61	1708618.73	14539208.87	40°02'02.413"N	104°45'22.841"W	0.60	
12588.00	91.210	181.270	7440.69	4322.99	-4326.97	1485.41	1708618.77	14539120.91	40°02'01.543"N	104°45'22.844"W	2.95	
12675.00	92.240	181.050	7438.07	4409.94	-4413.92	1483.65	1708617.24	14539034.00	40°02'00.684"N	104°45'22.866"W	1.21	
12763.00	89.810	180.680	7436.50	4497.91	-4501.88	1482.32	1708616.15	14538946.06	40°01'59.815"N	104°45'22.883"W	2.79	
12851.00	90.150	180.170	7436.53	4585.91	-4589.88	1481.67	1708615.73	14538858.10	40°01'58.945"N	104°45'22.892"W	0.70	
12938.00	91.090	179.640	7435.59	4672.90	-4676.87	1481.81	1708616.11	14538771.14	40°01'58.086"N	104°45'22.890"W	1.24	
13026.00	89.530	181.660	7435.11	4760.89	-4764.86	1480.81	1708615.35	14538683.19	40°01'57.216"N	104°45'22.903"W	2.90	
13113.00	90.080	181.450	7435.41	4847.86	-4851.83	1478.45	1708613.22	14538596.25	40°01'56.357"N	104°45'22.933"W	0.68	
13201.00	89.120	182.260	7436.02	4935.82	-4939.78	1475.60	1708610.61	14538508.33	40°01'55.487"N	104°45'22.970"W	1.43	
13288.00	89.640	181.800	7436.96	5022.77	-5026.72	1472.52	1708607.76	14538421.41	40°01'54.628"N	104°45'23.010"W	0.80	
13375.00	89.870	181.280	7437.34	5109.74	-5113.68	1470.18	1708605.66	14538334.48	40°01'53.769"N	104°45'23.040"W	0.65	
13463.00	89.180	182.490	7438.07	5197.70	-5201.63	1467.29	1708603.00	14538246.56	40°01'52.900"N	104°45'23.077"W	1.58	
13550.00	89.920	182.110	7438.75	5284.63	-5288.56	1463.80	1708599.74	14538159.65	40°01'52.041"N	104°45'23.122"W	0.96	
13638.00	88.270	181.860	7440.14	5372.57	-5376.49	1460.75	1708596.93	14538071.75	40°01'51.172"N	104°45'23.161"W	1.90	
13725.00	88.280	181.590	7442.76	5459.50	-5463.41	1458.13	1708594.55	14537984.86	40°01'50.313"N	104°45'23.195"W	0.31	
13813.00	89.020	181.170	7444.83	5547.45	-5551.36	1456.01	1708592.66	14537896.94	40°01'49.444"N	104°45'23.222"W	0.97	
13900.00	89.840	180.420	7445.70	5634.44	-5638.35	1454.81	1708591.69	14537809.98	40°01'48.584"N	104°45'23.238"W	1.28	
13988.00	89.500	179.320	7446.20	5722.44	-5726.34	1455.01	1708592.13	14537722.02	40°01'47.714"N	104°45'23.236"W	1.31	
14075.00	90.980	179.880	7445.84	5809.43	-5813.34	1455.61	1708592.97	14537635.06	40°01'46.855"N	104°45'23.228"W	1.82	
14163.00	89.440	179.650	7445.52	5897.43	-5901.34	1455.97	1708593.56	14537547.10	40°01'45.985"N	104°45'23.223"W	1.77	
14250.00	89.790	179.500	7446.10	5984.42	-5988.33	1456.62	1708594.44	14537460.14	40°01'45.125"N	104°45'23.215"W	0.44	
14337.00	90.580	180.110	7445.82	6071.42	-6075.33	1456.92	1708594.97	14537373.18	40°01'44.266"N	104°45'23.211"W	1.15	
14425.00	91.220	180.100	7444.44	6159.41	-6163.32	1456.75	1708595.04	14537285.23	40°01'43.396"N	104°45'23.213"W	0.73	
14513.00	91.650	179.610	7442.23	6247.38	-6251.29	1456.98	1708595.50	14537197.29	40°01'42.527"N	104°45'23.211"W	0.74	
14600.00	90.300	180.240	7440.75	6334.36	-6338.27	1457.09	1708595.85	14537110.34	40°01'41.667"N	104°45'23.209"W	1.71	
14687.00	89.210	180.650	7441.13	6421.36	-6425.27	1456.41	1708595.40	14537023.38	40°01'40.807"N	104°45'23.218"W	1.34	
14775.00	88.990	180.560	7442.51	6509.34	-6513.25	1455.49	1708594.71	14536935.43	40°01'39.938"N	104°45'23.230"W	0.27	
14863.00	88.610	180.370	7444.35	6597.32	-6601.23	1454.77	1708594.23	14536847.48	40°01'39.069"N	104°45'23.239"W	0.48	
14950.00	88.350	180.440	7446.66	6684.29	-6688.20	1454.16	1708593.85	14536760.55	40°01'38.209"N	104°45'23.247"W	0.31	
15038.00	88.240	180.440	7449.28	6772.25	-6776.16	1453.48	1708593.41	14536672.63	40°01'37.340"N	104°45'23.256"W	0.12	
15125.00	88.270	180.130	7451.93	6859.21	-6863.11	1453.05	1708593.21	14536585.70	40°01'36.481"N	104°45'23.262"W	0.36	
15213.00	90.180	179.790	7453.12	6947.20	-6951.10	1453.11	1708593.51	14536497.75	40°01'35.611"N	104°45'23.261"W	2.20	
15300.00	90.640	179.620	7452.49	7034.19	-7038.10	1453.56	1708594.19	14536410.79	40°01'34.751"N	104°45'23.255"W	0.56	
15388.00	90.520	178.820	7451.60	7122.18	-7126.09	1454.76	1708595.62	14536322.84	40°01'33.882"N	104°45'23.240"W	0.92	
15475.00	90.160	178.280	7451.09	7209.14	-7213.06	1456.96	1708598.05	14536235.91	40°01'33.022"N	104°45'23.212"W	0.75	
15563.00	90.580	177.950	7450.52	7297.08	-7301.01	1459.85	1708601.18	14536148.00	40°01'32.153"N	104°45'23.174"W	0.61	

# Actual Wellpath Report

MAB 15-8HZ AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#26 MAB 15-8HZ(593'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-8HZ AWB
Facility	SEC.15-T1N-R66W		

WELLPATH DATA (220 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
15650.00	89.980	179.830	7450.09	7384.05	-7387.98	1461.54	1708603.10	14536061.06	40°01'31.294"N	104°45'23.153"W	2.27	
15738.00	90.190	180.160	7449.96	7472.05	-7475.98	1461.54	1708603.34	14535973.10	40°01'30.424"N	104°45'23.153"W	0.44	
15825.00	90.020	180.230	7449.80	7559.05	-7562.98	1461.25	1708603.28	14535886.13	40°01'29.564"N	104°45'23.157"W	0.21	
15912.00	90.610	180.360	7449.32	7646.05	-7649.98	1460.80	1708603.07	14535799.17	40°01'28.704"N	104°45'23.162"W	0.69	
16000.00	90.960	180.160	7448.12	7734.04	-7737.97	1460.40	1708602.90	14535711.21	40°01'27.835"N	104°45'23.168"W	0.46	
16087.00	89.160	180.320	7448.03	7821.04	-7824.97	1460.04	1708602.77	14535624.25	40°01'26.975"N	104°45'23.172"W	2.08	
16174.00	88.880	179.890	7449.52	7908.03	-7911.95	1459.88	1708602.84	14535537.30	40°01'26.116"N	104°45'23.174"W	0.59	
16263.00	88.650	179.870	7451.43	7997.00	-8000.93	1460.06	1708603.27	14535448.36	40°01'25.236"N	104°45'23.172"W	0.26	
16350.00	88.760	179.410	7453.40	8083.98	-8087.91	1460.61	1708604.05	14535361.42	40°01'24.377"N	104°45'23.165"W	0.54	
16437.00	88.550	179.160	7455.44	8170.94	-8174.88	1461.70	1708605.36	14535274.49	40°01'23.517"N	104°45'23.151"W	0.38	
16525.00	88.520	179.340	7457.69	8258.91	-8262.84	1462.85	1708606.75	14535186.56	40°01'22.648"N	104°45'23.137"W	0.21	
16612.00	88.960	179.560	7459.61	8345.88	-8349.82	1463.68	1708607.82	14535099.62	40°01'21.789"N	104°45'23.126"W	0.57	
16699.00	88.650	179.520	7461.42	8432.85	-8436.79	1464.38	1708608.75	14535012.68	40°01'20.929"N	104°45'23.117"W	0.36	
16787.00	88.130	179.240	7463.89	8520.81	-8524.75	1465.33	1708609.94	14534924.76	40°01'20.060"N	104°45'23.105"W	0.67	
16874.00	87.720	181.220	7467.04	8607.75	-8611.69	1464.98	1708609.82	14534837.86	40°01'19.201"N	104°45'23.109"W	2.32	
16961.00	87.280	181.130	7470.84	8694.65	-8698.59	1463.20	1708608.27	14534750.99	40°01'18.342"N	104°45'23.132"W	0.52	
17049.00	88.470	181.580	7474.10	8782.57	-8786.50	1461.12	1708606.43	14534663.10	40°01'17.473"N	104°45'23.159"W	1.45	
17137.00	88.580	181.350	7476.37	8870.52	-8874.44	1458.87	1708604.41	14534575.19	40°01'16.604"N	104°45'23.188"W	0.29	
17225.00	90.210	179.990	7477.29	8958.50	-8962.43	1457.84	1708603.62	14534487.24	40°01'15.734"N	104°45'23.201"W	2.41	
17312.00	89.620	178.750	7477.42	9045.49	-9049.42	1458.80	1708604.81	14534400.28	40°01'14.875"N	104°45'23.189"W	1.58	
17399.00	92.560	179.120	7475.77	9132.45	-9136.38	1460.42	1708606.66	14534313.36	40°01'14.015"N	104°45'23.168"W	3.41	
17487.00	91.820	180.230	7472.41	9220.38	-9224.31	1460.92	1708607.39	14534225.47	40°01'13.146"N	104°45'23.162"W	1.52	
17574.00	90.220	180.420	7470.86	9307.36	-9311.30	1460.42	1708607.13	14534138.52	40°01'12.287"N	104°45'23.169"W	1.85	
17648.00†	89.993	179.537	7470.72	9381.36	-9385.29	1460.45	1708607.36	14534064.55	40°01'11.556"N	104°45'23.168"W	1.23	CROSS SETBACK TOE (1772'FSL & 712'FEL,SEC.27) 40.0198766 -104.7564356
17662.00	89.950	179.370	7470.73	9395.36	-9399.29	1460.58	1708607.53	14534050.56	40°01'11.417"N	104°45'23.167"W	1.23	
17749.00	90.250	179.510	7470.58	9482.35	-9486.29	1461.43	1708608.61	14533963.60	40°01'10.558"N	104°45'23.156"W	0.38	
17837.00	89.580	178.790	7470.71	9570.34	-9574.28	1462.74	1708610.15	14533875.65	40°01'09.688"N	104°45'23.139"W	1.12	
17924.00	90.150	179.650	7470.91	9657.33	-9661.27	1463.92	1708611.57	14533788.70	40°01'08.828"N	104°45'23.124"W	1.19	
18011.00	89.670	179.060	7471.05	9744.32	-9748.26	1464.90	1708612.78	14533701.74	40°01'07.969"N	104°45'23.111"W	0.87	
18099.00	90.010	179.470	7471.29	9832.31	-9836.25	1466.03	1708614.14	14533613.79	40°01'07.099"N	104°45'23.097"W	0.61	
18186.00	90.040	178.590	7471.26	9919.29	-9923.24	1467.50	1708615.85	14533526.84	40°01'06.239"N	104°45'23.078"W	1.01	
18274.00	90.500	179.430	7470.84	10007.27	-10011.23	1469.03	1708617.60	14533438.89	40°01'05.370"N	104°45'23.058"W	1.09	
18361.00	90.480	179.140	7470.10	10094.25	-10098.22	1470.11	1708618.92	14533351.94	40°01'04.510"N	104°45'23.045"W	0.33	
18448.00	90.470	179.510	7469.38	10181.24	-10185.21	1471.14	1708620.18	14533264.99	40°01'03.651"N	104°45'23.031"W	0.43	
18536.00	90.080	179.130	7468.95	10269.23	-10273.20	1472.18	1708621.46	14533177.03	40°01'02.781"N	104°45'23.018"W	0.62	
18623.00	90.440	180.600	7468.56	10356.23	-10360.20	1472.38	1708621.90	14533090.07	40°01'01.921"N	104°45'23.016"W	1.74	
18711.00	89.980	180.060	7468.24	10444.23	-10448.19	1471.88	1708621.62	14533002.11	40°01'01.052"N	104°45'23.022"W	0.81	
18798.00	90.470	180.610	7467.89	10531.22	-10535.19	1471.37	1708621.35	14532915.14	40°01'00.192"N	104°45'23.029"W	0.85	
18897.00	90.760	179.720	7466.83	10630.22	-10634.18	1471.08	1708621.33	14532816.19	40°00'59.214"N	104°45'23.032"W	0.95	LAST BHGE MWD+IFR1+MSA SURVEY
18948.00	90.760	179.720	7466.15	10681.21	-10685.18	1471.33	1708621.71	14532765.22	40°00'58.710"N	104°45'23.029"W	0.00	PTB (472'FSL & 701'FEL,SEC.27) 40.0163083 -104.7563970

HOLE & CASING SECTIONS - Ref Wellbore: MAB 15-8HZ AWB Ref Wellpath: MAB 15-8HZ 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	1898.00	1881.00	17.00	1846.73	0.00	0.00	162.09	306.63



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#26 MAB 15-8HZ(593'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-8HZ AWB
Facility	SEC.15-T1N-R66W		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.22-T1N-R66W	34.00	674.70	-1679.27	1705441.98	14544112.12	40°02'50.971"N	104°46'03.533"W	polygon
SEC.27-T1N-R66W	34.00	674.70	-1679.27	1705441.98	14544112.12	40°02'50.971"N	104°46'03.533"W	polygon
MAB 15-8HZ HEEL REV-1(670'FSL & 690'FEL,SEC.15)	7436.00	75.13	1481.38	1708602.97	14543521.24	40°02'45.046"N	104°45'22.892"W	point
MAB 15-8HZ LANDBOX	7452.00	0.00	0.00	1707122.38	14543442.18	40°02'44.304"N	104°45'41.940"W	polygon
MAB 15-8HZ SETBACK 1	7452.00	0.00	0.00	1707122.38	14543442.18	40°02'44.304"N	104°45'41.940"W	polygon
MAB 15-8HZ SETBACK 2	7452.00	0.00	0.00	1707122.38	14543442.18	40°02'44.304"N	104°45'41.940"W	polygon
MAB 15-8HZ BHL REV-1(470'FSL & 719'FEL,SEC.27)	7465.00	-10687.49	1452.61	1708603.00	14532762.86	40°00'58.687"N	104°45'23.270"W	point

WELLPATH COMPOSITION - Ref Wellbore: MAB 15-8HZ AWB Ref Wellpath: MAB 15-8HZ AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	1901.00	Custom APC ISCWSA REV 2 MWD+IFR1 (approximation)	Custom APC ISCWSA Rev-2 MWD+IFR1 <124 - 1901>	MAB 15-8HZ AWB
1901.00	18897.00	Custom APC ISCWSA REV 2 MWD+IFR1+MSA (approximation)	BHGE Custom APC ISCWSA Rev-2 MWD+IFR1+MSA <1966 - 18897>	MAB 15-8HZ AWB
18897.00	18948.00	Blind Drilling (std)	Projection to bit	MAB 15-8HZ AWB



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#26 MAB 15-8HZ(593'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-8HZ AWB
Facility	SEC.15-T1N-R66W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
124.00	0.090	331.180	124.00	FIRST SURFACE MWD+IFR1 SURVEY
1901.00	26.360	57.930	1849.41	LAST SURFACE MWD+IFR1 SURVEY
1966.00	26.890	55.820	1907.52	FIRST BHGE MWD+IFR1+MSA SURVEY
7041.00	2.141	182.613	6699.97	KOP
7987.00	73.923	178.166	7410.06	ENTER LANDBOX (864'FSL & 688'FEL,SEC.15) 40.0463832 -104.7563519
8127.00	88.220	178.730	7431.45	LANDING (726'FSL & 684'FEL,SEC.15) 40.0460046 -104.7563377
9316.00	88.991	181.367	7442.87	CROSS SETBACK HEEL (463'FNL & 694'FEL,SEC.22) 40.0427422 -104.7563739
17648.00	89.993	179.537	7470.72	CROSS SETBACK TOE (1772'FSL & 712'FEL,SEC.27) 40.0198766 -104.7564356
18897.00	90.760	179.720	7466.83	LAST BHGE MWD+IFR1+MSA SURVEY
18948.00	90.760	179.720	7466.15	PTB (472'FSL & 701'FEL,SEC.27) 40.0163083 -104.7563970