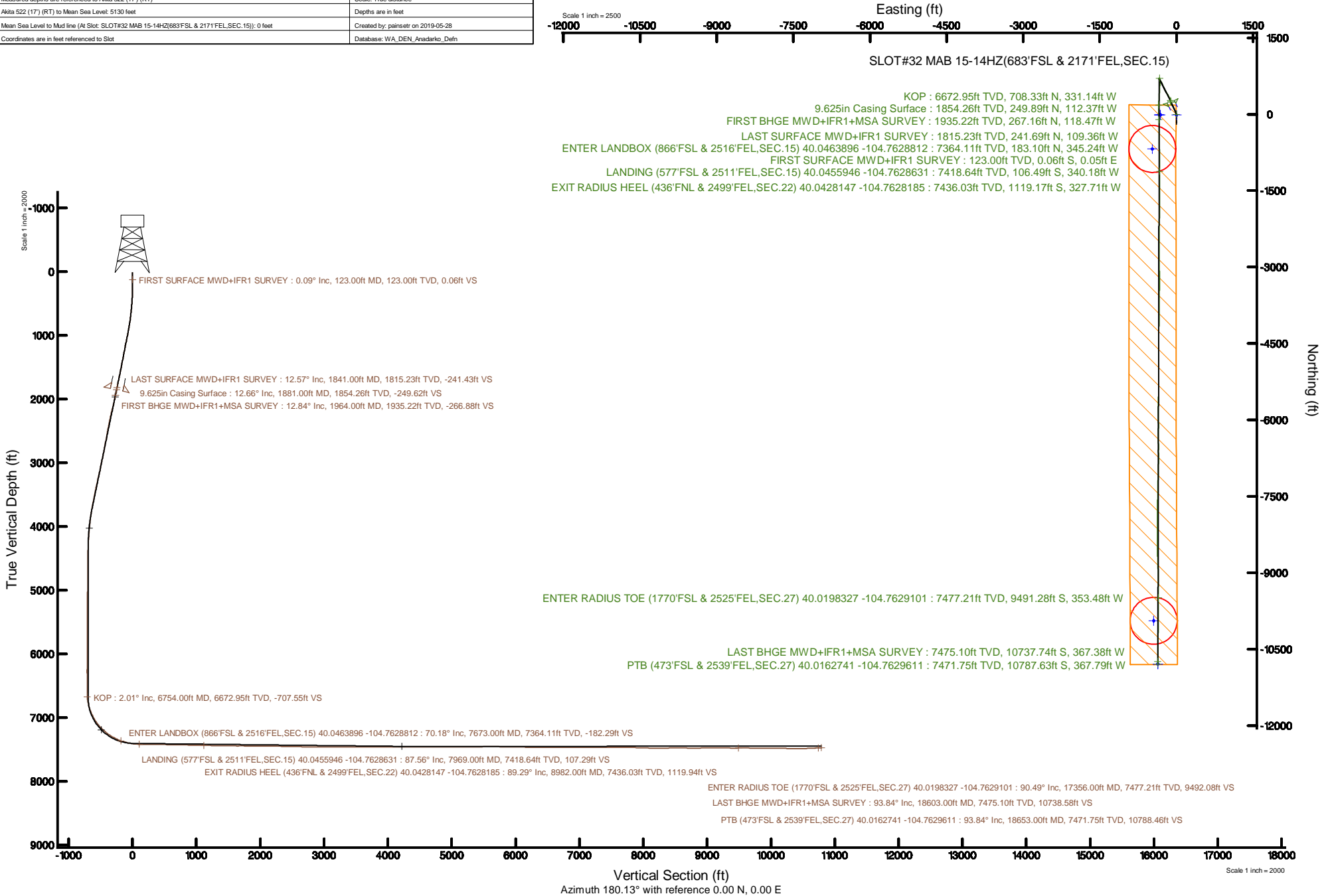


KERR-MCGEE OIL & GAS ONSHORE LP (WA)

Location: COLORADO Slot: SLOT#32 MAB 15-14HZ(683'FSL & 2171'FEL,SEC.15)
Field: WELD COUNTY (UTM/TRUE NORTH) Well: MAB 15-14HZ
Facility: SEC.15-T1N-R66W Wellbore: MAB 15-14HZ PWB

Plot reference wellpath is MAB 15-14HZ PWP Rev-C.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: 5130 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot: SLOT#32 MAB 15-14HZ(683'FSL & 2171'FEL,SEC.15)): 0 feet	Created by: painsetr on 2019-05-28
Coordinates are in feet referenced to Slot	Database: WA, DEN, Anadarko, Dfn



Actual Wellpath Report

MAB 15-14HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#32 MAB 15-14HZ(683'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-14HZ AWB
Facility	SEC.15-T1N-R66W		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 13 North, US feet	Software System	WellArchitect® 5.1
North Reference	True	User	Painsetr
Scale	0.999605	Report Generated	5/28/2019 at 9:56:06 AM
Convergence at slot	0.15° East	Database/Source file	WA_DEN_Anadarko_Defn/MAB_15-14HZ_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-584.53	1679.93	1707122.69	14543532.10	40°02'45.193"N	104°45'41.933"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#32 MAB 15-14HZ (683'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	180.13°

Actual Wellpath Report

MAB 15-14HZ AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#32 MAB 15-14HZ(683'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-14HZ AWB
Facility	SEC.15-T1N-R66W		

WELLPATH DATA (217 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	139.580	0.00	0.00	0.00	0.00	1707122.69	14543532.10	40°02'45.193"N	104°45'41.933"W	0.00	
17.00	0.000	139.580	17.00	0.00	0.00	0.00	1707122.69	14543532.10	40°02'45.193"N	104°45'41.933"W	0.00	
123.00	0.090	139.580	123.00	0.06	-0.06	0.05	1707122.74	14543532.04	40°02'45.192"N	104°45'41.932"W	0.08	FIRST SURFACE MWD+IFR1 SURVEY
217.00	0.130	184.760	217.00	0.23	-0.23	0.09	1707122.78	14543531.88	40°02'45.191"N	104°45'41.932"W	0.10	
313.00	1.580	336.280	312.99	-0.88	0.88	-0.45	1707122.24	14543532.98	40°02'45.202"N	104°45'41.939"W	1.77	
407.00	3.080	333.290	406.91	-4.31	4.32	-2.10	1707120.57	14543536.42	40°02'45.236"N	104°45'41.960"W	1.60	
502.00	4.880	339.360	501.68	-10.37	10.38	-4.68	1707117.98	14543542.47	40°02'45.296"N	104°45'41.993"W	1.94	
597.00	6.330	336.280	596.22	-18.94	18.96	-8.21	1707114.43	14543551.03	40°02'45.380"N	104°45'42.039"W	1.56	
693.00	7.250	338.300	691.54	-29.40	29.43	-12.58	1707110.04	14543561.49	40°02'45.484"N	104°45'42.095"W	0.99	
787.00	9.270	336.810	784.56	-41.86	41.90	-17.75	1707104.83	14543573.94	40°02'45.607"N	104°45'42.161"W	2.16	
882.00	9.800	335.140	878.25	-56.22	56.27	-24.16	1707098.38	14543588.29	40°02'45.749"N	104°45'42.244"W	0.63	
978.00	12.350	337.420	972.46	-73.09	73.17	-31.54	1707090.96	14543605.16	40°02'45.916"N	104°45'42.339"W	2.69	
1073.00	12.920	336.980	1065.16	-92.23	92.32	-39.60	1707082.86	14543624.28	40°02'46.105"N	104°45'42.442"W	0.61	
1168.00	12.130	334.610	1157.90	-111.00	111.12	-48.03	1707074.38	14543643.05	40°02'46.291"N	104°45'42.551"W	0.99	
1263.00	11.780	334.170	1250.83	-128.73	128.86	-56.53	1707065.83	14543660.76	40°02'46.466"N	104°45'42.660"W	0.38	
1359.00	12.000	334.700	1344.77	-146.55	146.70	-65.07	1707057.25	14543678.58	40°02'46.643"N	104°45'42.770"W	0.26	
1454.00	12.700	334.350	1437.58	-164.87	165.05	-73.81	1707048.46	14543696.89	40°02'46.824"N	104°45'42.882"W	0.74	
1548.00	12.440	333.820	1529.32	-183.25	183.45	-82.75	1707039.48	14543715.26	40°02'47.006"N	104°45'42.997"W	0.30	
1643.00	12.700	332.850	1622.05	-201.70	201.92	-92.03	1707030.15	14543733.70	40°02'47.188"N	104°45'43.116"W	0.35	
1738.00	12.700	336.550	1714.72	-220.56	220.79	-100.95	1707021.19	14543752.54	40°02'47.375"N	104°45'43.231"W	0.86	
1841.00	12.570	339.620	1815.23	-241.43	241.69	-109.36	1707012.72	14543773.40	40°02'47.581"N	104°45'43.339"W	0.66	LAST SURFACE MWD+IFR1 SURVEY
1964.00	12.840	340.990	1935.22	-266.88	267.16	-118.47	1707003.55	14543798.84	40°02'47.833"N	104°45'43.456"W	0.33	FIRST BHGE MWD+IFR1+MSA SURVEY
2051.00	12.380	339.180	2020.12	-284.72	285.01	-124.94	1706997.04	14543816.67	40°02'48.010"N	104°45'43.539"W	0.70	
2138.00	14.830	340.440	2104.67	-303.91	304.23	-131.98	1706989.95	14543835.85	40°02'48.199"N	104°45'43.630"W	2.84	
2225.00	14.590	338.440	2188.82	-324.58	324.91	-139.73	1706982.14	14543856.51	40°02'48.404"N	104°45'43.730"W	0.65	
2313.00	13.850	331.810	2274.13	-344.15	344.50	-148.78	1706973.04	14543876.07	40°02'48.597"N	104°45'43.846"W	2.03	
2400.00	13.300	330.390	2358.70	-362.00	362.38	-158.65	1706963.13	14543893.91	40°02'48.774"N	104°45'43.973"W	0.74	
2488.00	12.700	328.550	2444.44	-379.03	379.43	-168.69	1706953.04	14543910.93	40°02'48.943"N	104°45'44.102"W	0.83	
2576.00	11.850	327.450	2530.43	-394.88	395.30	-178.60	1706943.10	14543926.77	40°02'49.099"N	104°45'44.230"W	1.00	
2663.00	12.100	328.150	2615.54	-410.13	410.58	-188.22	1706933.44	14543942.01	40°02'49.250"N	104°45'44.353"W	0.33	
2751.00	12.780	330.800	2701.47	-426.44	426.91	-197.84	1706923.79	14543958.31	40°02'49.412"N	104°45'44.477"W	1.01	
2839.00	11.880	329.520	2787.44	-442.72	443.21	-207.18	1706914.40	14543974.58	40°02'49.573"N	104°45'44.597"W	1.07	
2927.00	12.770	333.100	2873.41	-459.18	459.69	-216.18	1706905.37	14543991.03	40°02'49.736"N	104°45'44.713"W	1.33	
3042.00	13.940	334.420	2985.30	-482.98	483.52	-227.91	1706893.58	14544014.82	40°02'49.971"N	104°45'44.864"W	1.05	
3129.00	12.500	333.290	3070.00	-500.82	501.38	-236.66	1706884.78	14544032.65	40°02'50.148"N	104°45'44.976"W	1.68	
3216.00	13.070	335.910	3154.84	-518.20	518.77	-244.91	1706876.48	14544050.02	40°02'50.320"N	104°45'45.082"W	0.93	
3303.00	14.790	335.410	3239.28	-537.26	537.85	-253.55	1706867.80	14544069.06	40°02'50.508"N	104°45'45.193"W	1.98	
3391.00	13.680	334.720	3324.57	-556.86	557.48	-262.67	1706858.63	14544088.66	40°02'50.702"N	104°45'45.310"W	1.28	
3478.00	12.240	334.060	3409.36	-574.43	575.07	-271.09	1706850.16	14544106.22	40°02'50.876"N	104°45'45.419"W	1.66	
3566.00	13.360	334.590	3495.17	-591.99	592.65	-279.54	1706841.67	14544123.77	40°02'51.050"N	104°45'45.527"W	1.28	
3653.00	11.770	334.010	3580.08	-609.02	609.70	-287.74	1706833.43	14544140.79	40°02'51.218"N	104°45'45.633"W	1.83	
3741.00	12.540	332.450	3666.11	-625.54	626.24	-296.09	1706825.04	14544157.30	40°02'51.382"N	104°45'45.740"W	0.95	
3828.00	10.830	331.350	3751.30	-641.07	641.79	-304.38	1706816.71	14544172.82	40°02'51.535"N	104°45'45.847"W	1.98	
3915.00	8.840	331.000	3837.02	-654.07	654.81	-311.54	1706809.52	14544185.82	40°02'51.664"N	104°45'45.939"W	2.29	
4003.00	8.030	333.920	3924.07	-665.49	666.24	-317.52	1706803.51	14544197.23	40°02'51.777"N	104°45'46.016"W	1.04	

Actual Wellpath Report

MAB 15-14HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#32 MAB 15-14HZ(683'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-14HZ AWP
Facility	SEC.15-T1N-R66W		

WELLPATH DATA (217 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
4090.00	6.640	327.430	4010.35	-675.18	675.94	-322.90	1706798.11	14544206.91	40°02'51.873"N	104°45'46.085"W	1.86	
4178.00	5.620	319.690	4097.85	-682.74	683.52	-328.43	1706792.56	14544214.47	40°02'51.948"N	104°45'46.156"W	1.49	
4265.00	4.740	316.040	4184.49	-688.56	689.35	-333.68	1706787.30	14544220.29	40°02'52.005"N	104°45'46.224"W	1.08	
4352.00	3.230	317.070	4271.28	-692.94	693.73	-337.84	1706783.12	14544224.66	40°02'52.049"N	104°45'46.277"W	1.74	
4440.00	2.760	315.470	4359.16	-696.25	697.06	-341.02	1706779.94	14544227.97	40°02'52.081"N	104°45'46.318"W	0.54	
4528.00	1.330	303.900	4447.10	-698.33	699.14	-343.35	1706777.60	14544230.04	40°02'52.102"N	104°45'46.348"W	1.68	
4616.00	0.480	78.200	4535.10	-698.97	699.78	-343.84	1706777.11	14544230.69	40°02'52.108"N	104°45'46.354"W	1.93	
4704.00	0.620	62.430	4623.09	-699.27	700.08	-343.05	1706777.90	14544230.99	40°02'52.111"N	104°45'46.344"W	0.23	
4791.00	0.810	36.430	4710.09	-699.98	700.79	-342.27	1706778.68	14544231.70	40°02'52.118"N	104°45'46.334"W	0.43	
4879.00	0.660	42.760	4798.08	-700.86	701.67	-341.56	1706779.39	14544232.57	40°02'52.127"N	104°45'46.325"W	0.19	
4966.00	0.620	16.910	4885.07	-701.68	702.48	-341.08	1706779.86	14544233.39	40°02'52.135"N	104°45'46.319"W	0.33	
5054.00	0.670	359.650	4973.07	-702.65	703.45	-340.95	1706779.99	14544234.36	40°02'52.145"N	104°45'46.317"W	0.23	
5141.00	0.570	351.710	5060.06	-703.59	704.39	-341.01	1706779.93	14544235.30	40°02'52.154"N	104°45'46.318"W	0.15	
5229.00	0.520	339.740	5148.06	-704.39	705.20	-341.21	1706779.72	14544236.11	40°02'52.162"N	104°45'46.321"W	0.14	
5316.00	0.350	312.120	5235.06	-704.94	705.75	-341.55	1706779.39	14544236.65	40°02'52.167"N	104°45'46.325"W	0.30	
5404.00	0.260	270.260	5323.06	-705.12	705.93	-341.95	1706778.99	14544236.83	40°02'52.169"N	104°45'46.330"W	0.27	
5492.00	0.120	166.700	5411.06	-705.03	705.84	-342.12	1706778.81	14544236.75	40°02'52.168"N	104°45'46.332"W	0.35	
5579.00	0.210	140.040	5498.05	-704.82	705.63	-342.00	1706778.93	14544236.53	40°02'52.166"N	104°45'46.331"W	0.13	
5667.00	0.270	108.890	5586.05	-704.63	705.44	-341.70	1706779.23	14544236.34	40°02'52.164"N	104°45'46.327"W	0.16	
5755.00	0.590	82.430	5674.05	-704.62	705.43	-341.06	1706779.88	14544236.34	40°02'52.164"N	104°45'46.318"W	0.42	
5842.00	0.760	65.930	5761.05	-704.92	705.72	-340.08	1706780.85	14544236.64	40°02'52.167"N	104°45'46.306"W	0.29	
5930.00	0.840	64.150	5849.04	-705.44	706.24	-338.97	1706781.96	14544237.16	40°02'52.172"N	104°45'46.292"W	0.10	
6045.00	1.080	49.680	5964.02	-706.52	707.31	-337.39	1706783.54	14544238.23	40°02'52.183"N	104°45'46.271"W	0.30	
6132.00	1.050	51.910	6051.01	-707.54	708.34	-336.13	1706784.79	14544239.26	40°02'52.193"N	104°45'46.255"W	0.06	
6220.00	0.790	40.730	6138.99	-708.50	709.29	-335.10	1706785.82	14544240.22	40°02'52.202"N	104°45'46.242"W	0.36	
6307.00	1.100	31.000	6225.98	-709.67	710.46	-334.28	1706786.64	14544241.39	40°02'52.214"N	104°45'46.231"W	0.40	
6394.00	0.700	180.520	6312.98	-709.86	710.65	-333.86	1706787.06	14544241.57	40°02'52.216"N	104°45'46.226"W	2.00	
6481.00	0.590	163.920	6399.97	-708.90	709.69	-333.74	1706787.18	14544240.61	40°02'52.206"N	104°45'46.224"W	0.25	
6569.00	0.450	114.410	6487.97	-708.32	709.11	-333.30	1706787.63	14544240.03	40°02'52.201"N	104°45'46.219"W	0.52	
6657.00	0.630	98.490	6575.97	-708.11	708.89	-332.50	1706788.42	14544239.82	40°02'52.198"N	104°45'46.209"W	0.26	
6744.00	1.020	113.600	6662.96	-707.73	708.51	-331.32	1706789.60	14544239.45	40°02'52.195"N	104°45'46.193"W	0.51	
6754.00†	2.005	144.262	6672.95	-707.55	708.33	-331.14	1706789.79	14544239.27	40°02'52.193"N	104°45'46.191"W	12.42	KOP
6832.00	11.540	164.890	6750.33	-698.90	699.67	-328.30	1706792.65	14544230.62	40°02'52.107"N	104°45'46.154"W	12.42	
6920.00	16.190	171.470	6835.74	-678.26	679.03	-324.18	1706796.82	14544209.99	40°02'51.903"N	104°45'46.102"W	5.57	
7007.00	22.760	179.730	6917.74	-649.41	650.17	-322.30	1706798.77	14544181.15	40°02'51.618"N	104°45'46.077"W	8.17	
7095.00	28.010	183.900	6997.22	-611.74	612.50	-323.63	1706797.55	14544143.50	40°02'51.246"N	104°45'46.094"W	6.30	
7182.00	35.000	183.580	7071.35	-566.39	567.16	-326.58	1706794.72	14544098.17	40°02'50.798"N	104°45'46.132"W	8.04	
7269.00	41.260	182.830	7139.75	-512.78	513.56	-329.56	1706791.89	14544044.57	40°02'50.268"N	104°45'46.171"W	7.21	
7357.00	47.650	183.270	7202.53	-451.26	452.05	-332.85	1706788.76	14543983.08	40°02'49.660"N	104°45'46.213"W	7.27	
7444.00	54.340	184.230	7257.26	-383.83	384.62	-337.29	1706784.50	14543915.67	40°02'48.994"N	104°45'46.270"W	7.74	
7532.00	60.080	182.610	7304.90	-310.00	310.81	-341.67	1706780.32	14543841.88	40°02'48.264"N	104°45'46.326"W	6.70	
7619.00	66.320	181.150	7344.11	-232.43	233.24	-344.19	1706778.01	14543764.33	40°02'47.498"N	104°45'46.359"W	7.33	
7673.00†	70.180	181.237	7364.11	-182.29	183.10	-345.24	1706777.10	14543714.21	40°02'47.002"N	104°45'46.372"W	7.15	ENTER LANDBOX (866'FSL & 2516'FEL,SEC.15) 40.0463896 -104.7628812
7707.00	72.610	181.290	7374.96	-150.07	150.89	-345.95	1706776.47	14543682.01	40°02'46.684"N	104°45'46.381"W	7.15	
7794.00	77.430	179.220	7397.44	-66.06	66.88	-346.30	1706776.34	14543598.03	40°02'45.854"N	104°45'46.386"W	6.00	

Actual Wellpath Report

MAB 15-14HZ AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#32 MAB 15-14HZ(683°FSL & 2171°FEL,SEC.15)
Area	COLORADO	Well	MAB 15-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-14HZ AWW
Facility	SEC.15-T1N-R66W		

WELLPATH DATA (217 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
7882.00	83.600	177.410	7411.94	20.65	-19.84	-343.74	1706779.14	14543511.36	40°02'44.997"N	104°45'46.353"W	7.30	
7969.00	87.560	177.890	7418.64	107.29	-106.49	-340.18	1706782.92	14543424.75	40°02'44.141"N	104°45'46.307"W	4.58	LANDING (577'FSL & 2511'FEL,SEC.15) 40.0455946 -104.7628631
8057.00	89.070	179.550	7421.23	195.22	-194.42	-338.22	1706785.12	14543336.86	40°02'43.272"N	104°45'46.282"W	2.55	
8144.00	90.320	179.590	7421.69	282.21	-281.42	-337.57	1706786.01	14543249.90	40°02'42.412"N	104°45'46.273"W	1.44	
8231.00	89.100	179.860	7422.13	369.21	-368.41	-337.15	1706786.66	14543162.94	40°02'41.552"N	104°45'46.268"W	1.44	
8319.00	89.760	179.420	7423.01	457.20	-456.41	-336.60	1706787.44	14543074.98	40°02'40.683"N	104°45'46.261"W	0.90	
8406.00	88.620	179.760	7424.24	544.18	-543.39	-335.97	1706788.30	14542988.03	40°02'39.823"N	104°45'46.253"W	1.37	
8494.00	89.410	179.560	7425.75	632.17	-631.38	-335.45	1706789.06	14542900.08	40°02'38.954"N	104°45'46.246"W	0.93	
8581.00	88.290	179.520	7427.50	719.14	-718.36	-334.75	1706789.99	14542813.14	40°02'38.094"N	104°45'46.237"W	1.29	
8669.00	89.180	178.220	7429.44	807.10	-806.31	-333.02	1706791.96	14542725.22	40°02'37.225"N	104°45'46.215"W	1.79	
8755.00	88.310	179.030	7431.32	893.04	-892.27	-330.96	1706794.25	14542639.31	40°02'36.375"N	104°45'46.188"W	1.38	
8842.00	88.750	177.950	7433.56	979.98	-979.21	-328.66	1706796.77	14542552.41	40°02'35.516"N	104°45'46.159"W	1.34	
8930.00	89.020	180.540	7435.27	1067.94	-1067.18	-327.50	1706798.17	14542464.48	40°02'34.647"N	104°45'46.144"W	2.96	
8982.00†	89.292	179.908	7436.03	1119.94	-1119.17	-327.71	1706798.10	14542412.51	40°02'34.133"N	104°45'46.147"W	1.32	EXIT RADIUS HEEL (436'FNL & 2499'FEL,SEC.22) 40.0428147 -104.7628185
9018.00	89.480	179.470	7436.42	1155.93	-1155.17	-327.51	1706798.40	14542376.52	40°02'33.777"N	104°45'46.144"W	1.32	
9105.00	88.700	181.190	7437.80	1242.92	-1242.15	-328.01	1706798.13	14542289.57	40°02'32.918"N	104°45'46.150"W	2.17	
9193.00	88.440	181.060	7440.00	1330.88	-1330.11	-329.74	1706796.64	14542201.65	40°02'32.049"N	104°45'46.173"W	0.33	
9280.00	89.070	180.900	7441.89	1417.85	-1417.07	-331.23	1706795.38	14542114.71	40°02'31.189"N	104°45'46.192"W	0.75	
9367.00	89.380	180.070	7443.06	1504.84	-1504.06	-331.96	1706794.88	14542027.76	40°02'30.329"N	104°45'46.201"W	1.02	
9455.00	89.610	179.850	7443.84	1592.83	-1592.06	-331.90	1706795.18	14541939.80	40°02'29.460"N	104°45'46.200"W	0.36	
9542.00	90.300	179.720	7443.91	1679.83	-1679.06	-331.58	1706795.73	14541852.83	40°02'28.600"N	104°45'46.196"W	0.81	
9630.00	89.220	180.950	7444.28	1767.83	-1767.05	-332.09	1706795.46	14541764.87	40°02'27.731"N	104°45'46.203"W	1.86	
9717.00	89.220	180.700	7445.46	1854.81	-1854.03	-333.34	1706794.44	14541677.92	40°02'26.871"N	104°45'46.219"W	0.29	
9804.00	89.250	180.430	7446.62	1941.80	-1941.02	-334.20	1706793.81	14541590.97	40°02'26.011"N	104°45'46.230"W	0.31	
9892.00	89.280	180.520	7447.75	2029.79	-2029.01	-334.93	1706793.32	14541503.01	40°02'25.142"N	104°45'46.239"W	0.11	
9980.00	89.270	180.720	7448.87	2117.78	-2117.00	-335.88	1706792.60	14541415.05	40°02'24.272"N	104°45'46.251"W	0.23	
10067.00	89.590	180.620	7449.73	2204.78	-2203.99	-336.90	1706791.82	14541328.10	40°02'23.413"N	104°45'46.265"W	0.39	
10154.00	89.550	180.540	7450.38	2291.77	-2290.98	-337.78	1706791.17	14541241.14	40°02'22.553"N	104°45'46.276"W	0.10	
10242.00	88.980	180.370	7451.51	2379.76	-2378.97	-338.48	1706790.71	14541153.18	40°02'21.683"N	104°45'46.285"W	0.68	
10329.00	88.730	180.540	7453.25	2466.74	-2465.95	-339.17	1706790.25	14541066.23	40°02'20.824"N	104°45'46.294"W	0.35	
10416.00	88.670	180.110	7455.23	2553.72	-2552.93	-339.66	1706789.99	14540979.29	40°02'19.964"N	104°45'46.300"W	0.50	
10504.00	88.730	180.210	7457.22	2641.70	-2640.90	-339.91	1706789.98	14540891.35	40°02'19.095"N	104°45'46.303"W	0.13	
10591.00	88.470	179.480	7459.35	2728.67	-2727.88	-339.67	1706790.45	14540804.41	40°02'18.235"N	104°45'46.300"W	0.89	
10679.00	88.280	179.380	7461.84	2816.63	-2815.84	-338.80	1706791.56	14540716.49	40°02'17.366"N	104°45'46.289"W	0.24	
10766.00	90.130	179.760	7463.05	2903.61	-2902.82	-338.15	1706792.44	14540629.54	40°02'16.507"N	104°45'46.280"W	2.17	
10854.00	90.180	179.200	7462.81	2991.60	-2990.82	-337.35	1706793.48	14540541.58	40°02'15.637"N	104°45'46.270"W	0.64	
10941.00	89.790	177.620	7462.83	3078.56	-3077.78	-334.93	1706796.12	14540454.66	40°02'14.778"N	104°45'46.239"W	1.87	
11029.00	89.880	179.330	7463.09	3166.52	-3165.75	-332.59	1706798.70	14540366.74	40°02'13.908"N	104°45'46.209"W	1.95	
11117.00	90.580	181.290	7462.73	3254.52	-3253.74	-333.07	1706798.46	14540278.78	40°02'13.039"N	104°45'46.215"W	2.37	
11204.00	91.110	179.990	7461.45	3341.50	-3340.72	-334.04	1706797.72	14540191.83	40°02'12.179"N	104°45'46.228"W	1.61	
11292.00	89.560	180.710	7460.94	3429.49	-3428.72	-334.58	1706797.42	14540103.87	40°02'11.310"N	104°45'46.234"W	1.94	
11379.00	90.120	180.420	7461.18	3516.49	-3515.71	-335.43	1706796.79	14540016.90	40°02'10.450"N	104°45'46.245"W	0.72	
11467.00	90.670	179.950	7460.57	3604.49	-3603.71	-335.72	1706796.74	14539928.94	40°02'09.580"N	104°45'46.249"W	0.82	
11554.00	90.150	180.700	7459.95	3691.49	-3690.70	-336.21	1706796.48	14539841.98	40°02'08.721"N	104°45'46.255"W	1.05	
11642.00	90.700	180.370	7459.30	3779.48	-3778.70	-337.03	1706795.90	14539754.02	40°02'07.851"N	104°45'46.266"W	0.73	

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#32 MAB 15-14HZ(683'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-14HZ AWB
Facility	SEC.15-T1N-R66W		

WELLPATH DATA (217 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
11729.00	89.550	180.800	7459.11	3866.48	-3865.69	-337.92	1706795.24	14539667.06	40°02'06.991"N	104°45'46.277"W	1.41	
11817.00	90.660	180.910	7458.95	3954.47	-3953.68	-339.24	1706794.16	14539579.10	40°02'06.122"N	104°45'46.294"W	1.27	
11904.00	89.330	181.240	7458.95	4041.45	-4040.66	-340.87	1706792.77	14539492.15	40°02'05.262"N	104°45'46.315"W	1.58	
11992.00	90.120	181.020	7459.38	4129.44	-4128.64	-342.60	1706791.27	14539404.20	40°02'04.393"N	104°45'46.338"W	0.93	
12080.00	91.150	181.430	7458.40	4217.42	-4216.62	-344.48	1706789.62	14539316.26	40°02'03.523"N	104°45'46.362"W	1.26	
12167.00	89.050	180.980	7458.25	4304.40	-4303.59	-346.31	1706788.03	14539229.31	40°02'02.664"N	104°45'46.385"W	2.47	
12254.00	89.810	181.040	7459.12	4391.38	-4390.57	-347.85	1706786.72	14539142.36	40°02'01.804"N	104°45'46.405"W	0.88	
12342.00	90.470	180.170	7458.90	4479.38	-4478.57	-348.78	1706786.03	14539054.40	40°02'00.935"N	104°45'46.417"W	1.24	
12430.00	88.820	179.700	7459.45	4567.37	-4566.56	-348.68	1706786.37	14538966.44	40°02'00.065"N	104°45'46.416"W	1.95	
12517.00	89.360	179.430	7460.83	4654.35	-4653.55	-348.02	1706787.26	14538879.49	40°01'59.205"N	104°45'46.407"W	0.69	
12605.00	90.100	179.380	7461.24	4742.35	-4741.54	-347.10	1706788.41	14538791.53	40°01'58.336"N	104°45'46.395"W	0.84	
12693.00	90.590	178.880	7460.71	4830.33	-4829.53	-345.77	1706789.98	14538703.58	40°01'57.466"N	104°45'46.378"W	0.80	
12780.00	89.070	180.860	7460.97	4917.32	-4916.52	-345.57	1706790.41	14538616.63	40°01'56.607"N	104°45'46.376"W	2.87	
12868.00	89.190	180.010	7462.31	5005.31	-5004.51	-346.24	1706789.98	14538528.67	40°01'55.737"N	104°45'46.384"W	0.98	
12955.00	90.020	179.830	7462.91	5092.31	-5091.50	-346.12	1706790.33	14538441.71	40°01'54.877"N	104°45'46.382"W	0.98	
13043.00	90.640	179.540	7462.40	5180.30	-5179.50	-345.63	1706791.05	14538353.75	40°01'54.008"N	104°45'46.376"W	0.78	
13130.00	90.670	180.930	7461.40	5267.29	-5266.49	-345.99	1706790.93	14538266.79	40°01'53.148"N	104°45'46.381"W	1.60	
13218.00	91.700	180.320	7459.59	5355.27	-5354.47	-346.95	1706790.20	14538178.85	40°01'52.279"N	104°45'46.393"W	1.36	
13305.00	90.780	181.630	7457.70	5442.24	-5441.43	-348.43	1706788.96	14538091.92	40°01'51.419"N	104°45'46.412"W	1.84	
13393.00	89.900	181.790	7457.18	5530.20	-5529.39	-351.05	1706786.57	14538003.99	40°01'50.550"N	104°45'46.446"W	1.02	
13480.00	90.700	182.140	7456.72	5617.16	-5616.34	-354.04	1706783.82	14537917.07	40°01'49.691"N	104°45'46.484"W	1.00	
13567.00	89.190	179.970	7456.81	5704.14	-5703.31	-355.64	1706782.45	14537830.12	40°01'48.831"N	104°45'46.505"W	3.04	
13655.00	88.720	179.630	7458.41	5792.12	-5791.30	-355.33	1706782.99	14537742.17	40°01'47.962"N	104°45'46.501"W	0.66	
13742.00	89.070	179.490	7460.09	5879.10	-5878.28	-354.66	1706783.89	14537655.23	40°01'47.102"N	104°45'46.492"W	0.43	
13830.00	89.590	179.400	7461.12	5967.09	-5966.27	-353.81	1706784.98	14537567.28	40°01'46.233"N	104°45'46.481"W	0.60	
13917.00	88.670	178.060	7462.44	6054.05	-6053.23	-351.88	1706787.14	14537480.35	40°01'45.373"N	104°45'46.456"W	1.87	
14005.00	89.440	181.190	7463.89	6142.02	-6141.21	-351.31	1706787.95	14537392.41	40°01'44.504"N	104°45'46.449"W	3.66	
14092.00	89.690	180.470	7464.55	6229.01	-6228.20	-352.57	1706786.92	14537305.46	40°01'43.644"N	104°45'46.465"W	0.88	
14180.00	88.810	179.550	7465.70	6317.00	-6316.19	-352.58	1706787.14	14537217.50	40°01'42.775"N	104°45'46.465"W	1.45	
14267.00	89.960	179.710	7466.64	6403.99	-6403.18	-352.02	1706787.94	14537130.55	40°01'41.915"N	104°45'46.458"W	1.33	
14355.00	90.610	179.430	7466.20	6491.99	-6491.18	-351.36	1706788.83	14537042.59	40°01'41.045"N	104°45'46.450"W	0.80	
14442.00	89.550	180.850	7466.08	6578.98	-6578.17	-351.57	1706788.85	14536955.63	40°01'40.186"N	104°45'46.452"W	2.04	
14530.00	90.070	178.720	7466.37	6666.97	-6666.16	-351.24	1706789.42	14536867.67	40°01'39.316"N	104°45'46.448"W	2.49	
14617.00	89.240	180.170	7466.90	6753.96	-6753.16	-350.40	1706790.49	14536780.71	40°01'38.457"N	104°45'46.437"W	1.92	
14705.00	91.020	180.850	7466.70	6841.96	-6841.15	-351.18	1706789.95	14536692.76	40°01'37.587"N	104°45'46.447"W	2.17	
14792.00	89.020	182.000	7466.67	6928.93	-6928.12	-353.35	1706788.02	14536605.82	40°01'36.728"N	104°45'46.475"W	2.65	
14880.00	89.580	182.020	7467.74	7016.87	-7016.05	-356.43	1706785.17	14536517.91	40°01'35.858"N	104°45'46.515"W	0.64	
14967.00	90.670	181.000	7467.55	7103.85	-7103.02	-358.73	1706783.11	14536430.97	40°01'34.999"N	104°45'46.544"W	1.72	
15055.00	91.780	180.970	7465.67	7191.82	-7190.99	-360.24	1706781.83	14536343.03	40°01'34.130"N	104°45'46.564"W	1.26	
15142.00	89.300	181.260	7464.85	7278.79	-7277.96	-361.93	1706780.37	14536256.09	40°01'33.270"N	104°45'46.585"W	2.87	
15230.00	89.650	180.780	7465.66	7366.78	-7365.94	-363.50	1706779.04	14536168.14	40°01'32.401"N	104°45'46.606"W	0.68	
15317.00	90.730	181.370	7465.37	7453.76	-7452.92	-365.13	1706777.64	14536081.19	40°01'31.541"N	104°45'46.626"W	1.41	
15405.00	88.730	181.750	7465.78	7541.73	-7540.89	-367.53	1706775.48	14535993.25	40°01'30.672"N	104°45'46.657"W	2.31	
15492.00	89.080	181.020	7467.44	7628.69	-7627.84	-369.63	1706773.61	14535906.33	40°01'29.813"N	104°45'46.684"W	0.93	
15580.00	90.880	181.420	7467.48	7716.67	-7715.82	-371.50	1706771.98	14535818.38	40°01'28.943"N	104°45'46.708"W	2.10	

Actual Wellpath Report

MAB 15-14HZ AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#32 MAB 15-14HZ(683'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-14HZ AWB
Facility	SEC.15-T1N-R66W		

WELLPATH DATA (217 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
15667.00	88.180	180.510	7468.19	7803.65	-7802.80	-372.97	1706770.74	14535731.43	40°01'28.084"N	104°45'46.727"W	3.27	
15755.00	87.920	180.930	7471.18	7891.60	-7890.74	-374.07	1706769.88	14535643.52	40°01'27.215"N	104°45'46.741"W	0.56	
15842.00	88.200	180.010	7474.13	7978.55	-7977.68	-374.79	1706769.39	14535556.61	40°01'26.355"N	104°45'46.750"W	1.10	
15929.00	88.440	180.060	7476.68	8065.51	-8064.65	-374.84	1706769.57	14535469.68	40°01'25.496"N	104°45'46.751"W	0.28	
16017.00	89.160	179.750	7478.52	8153.49	-8152.63	-374.69	1706769.96	14535381.74	40°01'24.627"N	104°45'46.749"W	0.89	
16104.00	89.900	179.700	7479.24	8240.48	-8239.62	-374.27	1706770.61	14535294.78	40°01'23.767"N	104°45'46.744"W	0.85	
16192.00	90.820	179.650	7478.68	8328.48	-8327.62	-373.78	1706771.34	14535206.82	40°01'22.897"N	104°45'46.737"W	1.05	
16280.00	91.870	179.910	7476.62	8416.45	-8415.59	-373.44	1706771.91	14535118.88	40°01'22.028"N	104°45'46.733"W	1.23	
16367.00	89.050	178.720	7475.92	8503.43	-8502.57	-372.40	1706773.19	14535031.94	40°01'21.168"N	104°45'46.720"W	3.52	
16455.00	89.640	178.630	7476.92	8591.39	-8590.54	-370.36	1706775.45	14534944.01	40°01'20.299"N	104°45'46.694"W	0.68	
16542.00	89.870	178.630	7477.30	8678.36	-8677.52	-368.28	1706777.77	14534857.08	40°01'19.439"N	104°45'46.667"W	0.26	
16629.00	89.990	178.130	7477.40	8765.32	-8764.48	-365.82	1706780.46	14534770.15	40°01'18.580"N	104°45'46.635"W	0.59	
16716.00	89.950	177.950	7477.45	8852.26	-8851.43	-362.85	1706783.67	14534683.25	40°01'17.721"N	104°45'46.597"W	0.21	
16804.00	90.940	177.610	7476.77	8940.18	-8939.36	-359.44	1706787.31	14534595.36	40°01'16.852"N	104°45'46.553"W	1.19	
16891.00	90.270	179.370	7475.85	9027.14	-9026.32	-357.15	1706789.83	14534508.44	40°01'15.992"N	104°45'46.524"W	2.16	
16979.00	90.850	179.650	7474.99	9115.13	-9114.31	-356.39	1706790.82	14534420.49	40°01'15.123"N	104°45'46.514"W	0.73	
17067.00	88.840	179.930	7475.22	9203.12	-9202.31	-356.07	1706791.38	14534332.53	40°01'14.253"N	104°45'46.510"W	2.31	
17154.00	89.350	179.390	7476.60	9290.11	-9289.30	-355.56	1706792.13	14534245.58	40°01'13.394"N	104°45'46.503"W	0.85	
17242.00	89.640	178.940	7477.37	9378.09	-9377.28	-354.27	1706793.64	14534157.63	40°01'12.524"N	104°45'46.487"W	0.61	
17329.00	90.320	180.020	7477.40	9465.08	-9464.28	-353.48	1706794.67	14534070.67	40°01'11.664"N	104°45'46.476"W	1.47	
17356.00†	90.486	179.949	7477.21	9492.08	-9491.28	-353.48	1706794.74	14534043.68	40°01'11.398"N	104°45'46.476"W	0.67	ENTER RADIUS TOE (1770'FSL & 2525'FEL,SEC.27) 40.0198327 -104.7629101
17417.00	90.860	179.790	7476.50	9553.08	-9552.27	-353.34	1706795.05	14533982.71	40°01'10.795"N	104°45'46.474"W	0.67	
17504.00	88.640	180.050	7476.88	9640.07	-9639.27	-353.22	1706795.40	14533895.75	40°01'09.935"N	104°45'46.473"W	2.57	
17591.00	88.650	179.880	7478.94	9727.05	-9726.24	-353.16	1706795.69	14533808.81	40°01'09.076"N	104°45'46.472"W	0.20	
17679.00	89.180	179.720	7480.60	9815.03	-9814.22	-352.86	1706796.23	14533720.87	40°01'08.206"N	104°45'46.468"W	0.63	
17766.00	90.590	180.760	7480.78	9902.03	-9901.22	-353.22	1706796.10	14533633.90	40°01'07.346"N	104°45'46.473"W	2.01	
17854.00	89.010	181.250	7481.08	9990.01	-9989.20	-354.76	1706794.79	14533545.95	40°01'06.477"N	104°45'46.493"W	1.88	
17941.00	90.790	181.980	7481.24	10076.98	-10076.16	-357.22	1706792.57	14533459.02	40°01'05.618"N	104°45'46.524"W	2.21	
18028.00	88.410	181.150	7481.84	10163.94	-10163.12	-359.59	1706790.43	14533372.09	40°01'04.758"N	104°45'46.555"W	2.90	
18116.00	88.300	180.690	7484.37	10251.90	-10251.07	-361.00	1706789.25	14533284.17	40°01'03.889"N	104°45'46.573"W	0.54	
18203.00	89.080	181.030	7486.36	10338.87	-10338.04	-362.31	1706788.18	14533197.23	40°01'03.030"N	104°45'46.590"W	0.98	
18291.00	90.420	180.720	7486.74	10426.86	-10426.03	-363.65	1706787.07	14533109.28	40°01'02.160"N	104°45'46.607"W	1.56	
18378.00	91.360	180.570	7485.39	10513.84	-10513.01	-364.63	1706786.33	14533022.33	40°01'01.301"N	104°45'46.619"W	1.09	
18466.00	92.320	180.920	7482.56	10601.79	-10600.96	-365.78	1706785.42	14532934.41	40°01'00.431"N	104°45'46.634"W	1.16	
18553.00	93.370	180.580	7478.25	10688.68	-10687.84	-366.91	1706784.51	14532847.56	40°00'59.573"N	104°45'46.649"W	1.27	
18603.00	93.840	180.480	7475.10	10738.58	-10737.74	-367.38	1706784.19	14532797.68	40°00'59.080"N	104°45'46.655"W	0.96	LAST BHGE MWD+IFR1+MSA SURVEY
18653.00	93.840	180.480	7471.75	10788.46	-10787.63	-367.79	1706783.90	14532747.81	40°00'58.587"N	104°45'46.660"W	0.00	PTB (473'FSL & 2539'FEL,SEC.27) 40.0162741 -104.7629611

HOLE & CASING SECTIONS - Ref Wellbore: MAB 15-14HZ AWB Ref Wellpath: MAB 15-14HZ 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]
9.625in Casing Surface	17.00	1881.00	1864.00	17.00	1854.26	0.00	0.00	249.89	-112.37

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#32 MAB 15-14HZ(683'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-14HZ 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	584.74	-1679.82	1705441.98	14544112.12	40°02'50.971"N	104°46'03.533"W	polygon
SEC.27-T1N-R66W	34.00	584.74	-1679.82	1705441.98	14544112.12	40°02'50.971"N	104°46'03.533"W	polygon
MAB 15-14HZ HEEL REV-3(670'FSL & 2509'FEL,SEC.15)	7405.00	-12.34	-338.26	1706784.59	14543518.86	40°02'45.071"N	104°45'46.282"W	point
MAB 15-14HZ HEEL REV-1(670'FSL & 2484'FEL,SEC.15)	7432.00	-12.34	-313.26	1706809.58	14543518.93	40°02'45.071"N	104°45'45.961"W	point
MAB 15-14HZ HEEL REV-2(670'FSL & 2509'FEL,SEC.15)	7432.00	-12.34	-338.26	1706784.59	14543518.86	40°02'45.071"N	104°45'46.282"W	point
MAB 15-14HZ BHL REV-2(471'FSL & 2535'FEL,SEC.27)	7449.00	-10789.52	-363.59	1706788.11	14532745.93	40°00'58.568"N	104°45'46.606"W	point
MAB 15-14HZ BHL REV-1(471'FSL & 2535'FEL,SEC.27)	7488.00	-10789.52	-363.59	1706788.11	14532745.93	40°00'58.568"N	104°45'46.606"W	point
MAB 15-15HZ SU 3 LANDBOX	7529.00	-14.88	0.00	1707122.73	14543517.23	40°02'45.046"N	104°45'41.933"W	polygon
MAB 15-15HZ SU 3 RADIUS 1	7529.00	-681.91	-472.00	1706652.70	14542849.20	40°02'38.454"N	104°45'48.002"W	polygon
MAB 15-15HZ SU 3 RADIUS 2	7529.00	-9941.19	-445.46	1706704.00	14533593.70	40°01'06.951"N	104°45'47.658"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: MAB 15-14HZ AWB Ref Wellpath: MAB 15-14HZ AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	1841.00	Custom APC_ISCWSA REV 2 MWD+IFR1 (approximation)	Custom APC_ISCWSA Rev-2 MWD+IFR1 <123 - 1841>	MAB 15-14HZ AWB
1841.00	18603.00	Custom APC_ISCWSA REV 2 MWD+IFR1+MSA (approximation)	BHGE Custom APC_ISCWSA Rev-2 MWD+IFR1+MSA <1964 - 18603>	MAB 15-14HZ AWB
18603.00	18653.00	Blind Drilling (std)	Projection to bit	MAB 15-14HZ AWB

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#32 MAB 15-14HZ(683'FSL & 2171'FEL,SEC.15)
Area	COLORADO	Well	MAB 15-14HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	MAB 15-14HZ AWB
Facility	SEC.15-T1N-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
123.00	0.090	139.580	123.00	FIRST SURFACE MWD+IFR1 SURVEY
1841.00	12.570	339.620	1815.23	LAST SURFACE MWD+IFR1 SURVEY
1964.00	12.840	340.990	1935.22	FIRST BHGE MWD+IFR1+MSA SURVEY
6754.00	2.005	144.262	6672.95	KOP
7673.00	70.180	181.237	7364.11	ENTER LANDBOX (866'FSL & 2516'FEL,SEC.15) 40.0463896 -104.7628812
7969.00	87.560	177.890	7418.64	LANDING (577'FSL & 2511'FEL,SEC.15) 40.0455946 -104.7628631
8982.00	89.292	179.908	7436.03	EXIT RADIUS HEEL (436'FNL & 2499'FEL,SEC.22) 40.0428147 -104.7628185
17356.00	90.486	179.949	7477.21	ENTER RADIUS TOE (1770'FSL & 2525'FEL,SEC.27) 40.0198327 -104.7629101
18603.00	93.840	180.480	7475.10	LAST BHGE MWD+IFR1+MSA SURVEY
18653.00	93.840	180.480	7471.75	PTB (473'FSL & 2539'FEL,SEC.27) 40.0162741 -104.7629611