



Actual Wellpath Report

THOMASON 31-15 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#11 THOMASON 31-15 (995'FNL & 1041'FWL)
Area	COLORADO	Well	THOMASON 31-15
Field	WELD COUNTY (KERR MCGEE)	Wellbore	THOMASON 31-15 AWB
Facility	SEC.15-T2N-R65W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.0
North Reference	True	User	Cookdannm
Scale	0.999959	Report Generated	7/19/2011 at 2:33:09 PM
Convergence at slot	0.55° East	Database/Source file	WA_DENVER/THOMASON_31-15_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	263.92	-2909.28	3235972.90	1296150.40	40°08'35.678"N	104°39'21.298"W
Facility Reference Pt			3238884.46	1295914.54	40°08'33.072"N	104°38'43.836"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM

Calculation method	Minimum curvature	XTREME 6 (RKB) to Facility Vertical Datum	4880.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RKB) to Mean Sea Level	4880.00ft
Vertical Reference Pt	XTREME 6 (RKB)	XTREME 6 (RKB) to Mud Line at Slot (SLOT#11 THOMASON 31-15 (995'FNL & 1041'FWL))	4880.00ft
MD Reference Pt	XTREME 6 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	248.89°



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WELLPATH DATA (91 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	38.300	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	38.300	16.00	0.00	0.00	0.00	0.00	
157.00	0.300	38.300	157.00	-0.32	0.29	0.23	0.21	
212.00	0.300	38.300	212.00	-0.57	0.52	0.41	0.00	
249.00	0.400	27.100	249.00	-0.75	0.71	0.53	0.33	
339.00	1.100	250.300	338.99	-0.12	0.70	-0.14	1.58	
431.00	2.800	244.700	430.94	3.01	-0.56	-3.01	1.86	
520.00	4.100	251.000	519.77	8.36	-2.53	-7.98	1.52	
608.00	5.500	249.900	607.46	15.72	-5.00	-14.92	1.59	
697.00	7.100	254.900	695.92	25.45	-7.90	-24.23	1.90	
785.00	8.700	247.800	783.09	37.52	-11.83	-35.65	2.13	
875.00	9.300	245.400	871.98	51.58	-17.43	-48.56	0.79	
974.00	9.500	247.100	969.65	67.73	-23.94	-63.36	0.35	
1063.00	10.900	248.200	1057.24	83.49	-29.92	-77.94	1.59	
1153.00	12.700	248.200	1145.34	101.89	-36.76	-95.03	2.00	
1243.00	15.700	240.000	1232.58	123.82	-46.52	-114.77	4.01	
1330.00	17.600	238.000	1315.93	148.37	-59.38	-136.12	2.28	
1419.00	19.400	237.300	1400.33	176.06	-74.50	-159.97	2.04	
1509.00	18.900	237.600	1485.35	205.00	-90.38	-184.85	0.57	
1598.00	19.300	240.800	1569.45	233.70	-105.28	-209.86	1.26	
1688.00	19.000	247.800	1654.48	263.07	-118.08	-236.41	2.57	
1777.00	18.700	251.700	1738.71	291.81	-128.03	-263.37	1.46	
1866.00	18.100	253.500	1823.16	319.84	-136.44	-290.18	0.93	
1953.00	17.900	251.400	1905.91	346.67	-144.54	-315.81	0.78	
2043.00	18.200	251.700	1991.48	374.53	-153.36	-342.26	0.35	
2131.00	17.400	250.700	2075.26	401.40	-162.03	-367.73	0.97	
2221.00	17.800	249.900	2161.05	428.61	-171.20	-393.35	0.52	
2311.00	18.300	254.200	2246.63	456.43	-179.78	-419.86	1.58	
2401.00	17.500	251.700	2332.27	484.02	-187.88	-446.30	1.23	
2490.00	16.400	249.900	2417.40	509.95	-196.40	-470.81	1.37	
2579.00	17.800	250.300	2502.47	536.11	-205.30	-495.42	1.58	
2669.00	15.600	249.900	2588.67	561.97	-214.10	-519.74	2.45	
2758.00	16.900	249.900	2674.11	586.87	-222.65	-543.12	1.46	
2847.00	16.400	247.500	2759.38	612.36	-231.91	-566.88	0.96	
2936.00	17.300	249.900	2844.56	638.15	-241.26	-590.92	1.28	
3026.00	16.600	252.100	2930.65	664.37	-249.82	-615.72	1.05	
3117.00	16.200	247.500	3017.95	690.04	-258.67	-639.81	1.49	
3204.00	16.700	250.300	3101.39	714.67	-267.53	-662.80	1.08	
3292.00	17.100	245.000	3185.59	740.22	-277.26	-686.43	1.81	
3383.00	17.000	250.600	3272.60	766.87	-287.33	-711.10	1.81	
3472.00	14.900	252.100	3358.17	791.30	-295.17	-734.26	2.40	
3560.00	15.200	249.900	3443.15	814.13	-302.61	-755.87	0.73	
3650.00	17.200	248.500	3529.57	839.23	-311.55	-779.33	2.26	
3741.00	17.700	249.600	3616.39	866.52	-321.30	-804.81	0.66	
3830.00	17.700	247.200	3701.17	893.57	-331.26	-829.97	0.82	
3918.00	16.500	248.900	3785.28	919.44	-340.94	-853.96	1.48	
4005.00	15.100	253.100	3869.00	943.10	-348.68	-876.33	2.08	
4094.00	14.800	253.800	3954.98	965.99	-355.22	-898.34	0.39	
4184.00	14.200	253.800	4042.12	988.44	-361.51	-919.98	0.67	
4274.00	12.600	259.800	4129.67	1009.08	-366.33	-940.24	2.35	
4360.00	9.300	259.100	4214.09	1025.13	-369.31	-956.30	3.84	
4449.00	6.800	259.100	4302.21	1037.40	-371.66	-968.54	2.81	
4539.00	5.600	254.900	4391.68	1047.01	-373.81	-978.01	1.42	
4626.00	3.100	256.600	4478.42	1053.56	-375.47	-984.40	2.88	
4716.00	1.700	175.100	4568.36	1056.35	-377.36	-986.65	3.67	
4805.00	1.900	182.800	4657.32	1057.31	-380.15	-986.61	0.35	
4896.00	1.100	281.900	4748.30	1058.66	-381.48	-987.54	2.57	
4984.00	1.600	58.700	4836.28	1058.16	-380.66	-987.32	2.86	

5073.00	1.200	47.440	4925.26	1056.07	-379.39	-985.57	0.54
5162.00	1.300	28.500	5014.24	1054.43	-377.87	-984.40	0.48



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Facility	SEC.15-T2N-R65W		

WELLPATH DATA (91 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5249.00	0.600	39.700	5101.22	1053.28	-376.65	-983.64	0.83	
5339.00	0.400	41.500	5191.22	1052.59	-376.05	-983.13	0.22	
5428.00	0.400	30.600	5280.22	1052.07	-375.55	-982.77	0.09	
5518.00	0.400	36.500	5370.22	1051.56	-375.03	-982.42	0.05	
5607.00	0.100	101.200	5459.22	1051.23	-374.80	-982.16	0.41	
5697.00	0.300	34.800	5549.22	1050.97	-374.62	-981.95	0.31	
5785.00	0.200	72.400	5637.21	1050.63	-374.38	-981.67	0.21	
5874.00	0.600	17.200	5726.21	1050.18	-373.89	-981.38	0.58	
5963.00	1.000	61.900	5815.20	1049.12	-373.08	-980.56	0.80	
6050.00	1.100	81.900	5902.19	1047.56	-372.60	-979.06	0.43	
6139.00	0.700	107.900	5991.18	1046.30	-372.65	-977.70	0.63	
6227.00	1.100	109.000	6079.17	1045.24	-373.09	-976.39	0.45	
6316.00	0.500	341.700	6168.16	1044.56	-373.00	-975.70	1.64	
6406.00	0.500	341.700	6258.16	1044.53	-372.25	-975.95	0.00	
6495.00	0.100	334.700	6347.16	1044.51	-371.82	-976.11	0.45	
6585.00	0.700	212.000	6437.16	1044.96	-372.21	-976.43	0.84	
6676.00	1.400	219.000	6528.14	1046.37	-373.55	-977.42	0.78	
6765.00	1.900	232.000	6617.10	1048.72	-375.30	-979.27	0.70	
6854.00	1.300	205.300	6706.07	1050.86	-377.12	-980.87	1.06	
6942.00	2.800	219.700	6794.01	1053.46	-379.68	-982.66	1.79	
7033.00	1.400	235.200	6884.95	1056.48	-382.02	-985.00	1.65	
7121.00	1.000	200.700	6972.93	1058.04	-383.35	-986.15	0.92	
7210.00	2.100	228.500	7061.90	1060.09	-385.16	-987.65	1.46	
7297.00	2.400	234.800	7148.83	1063.35	-387.27	-990.33	0.45	
7385.00	1.700	265.700	7236.78	1066.38	-388.43	-993.14	1.46	
7476.00	1.400	289.300	7327.74	1068.52	-388.16	-995.53	0.77	
7566.00	1.700	297.400	7417.71	1070.24	-387.18	-997.76	0.41	
7743.00	1.000	298.100	7594.66	1072.99	-385.25	-1001.45	0.40	
7834.00	1.200	292.800	7685.64	1074.20	-384.50	-1003.03	0.25	
7876.00	1.100	289.000	7727.64	1074.82	-384.20	-1003.81	0.30	LAST BHI MWD SURVEY
7926.00	1.100	289.000	7777.63	1075.56	-383.89	-1004.72	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: THOMASON 31-15 AWB Ref Wellpath: THOMASON 31-15 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]
12.25in Open Hole	16.00	961.00	945.00	16.00	956.83	0.00	0.00	-23.10	-61.39
8.625in Casing Surface	16.00	951.00	935.00	16.00	946.96	0.00	0.00	-22.46	-59.88
7.875in Open Hole	951.00	7926.00	6975.00	946.96	7777.63	-22.46	-59.88	-383.89	-1004.72



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TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
THOMASON 31-15 GEO TARGET 50' RADIUS (1380'FNL & 50'FWL,REV-1)		6000.00	-381.72	-988.90	3234987.73	1295759.30	40°08'31.906"N	104°39'34.031"W	circle
THOMASON 31-15 HARDLINE 50'W OF GEO TARGET		6000.00	-381.76	-1038.47	3234938.16	1295758.79	40°08'31.906"N	104°39'34.669"W	point

WELLPATH COMPOSITION - Ref Wellbore: THOMASON 31-15 AWB Ref Wellpath: THOMASON 31-15 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	7876.00	NaviTrak (Standard)	BHI MWD SURVEYS <157-7876>	THOMASON 31-15 AWB
7876.00	7926.00	Blind Drilling (std)	Projection to bit	THOMASON 31-15 AWB



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WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7876.00	1.100	289.000	7727.64	LAST BHI MWD SURVEY
7926.00	1.100	289.000	7777.63	PROJECTION TO BIT