



Actual Wellpath Report

MOSER 36-4 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 MOSER 36-4 (2232'FSL & 2476'FWL)
Area	COLORADO	Well	MOSER 36-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MOSER 36-4 AWB
Facility	SEC.04-T2N-R65W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.1
North Reference	True	User	Cookdanm
Scale	0.999958	Report Generated	9/7/2011 at 4:33:07 PM
Convergence at slot	0.54° East	Database/Source file	WA_Denver/MOSER_36-4_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-700.54	-45.83	3232148.17	1304638.46	40°09'59.915"N	104°40'09.523"W
Facility Reference Pt			3232187.43	1305339.38	40°10'06.838"N	104°40'08.933"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 15 (RKB) to Facility Vertical Datum	4874.00ft
Horizontal Reference Pt	Slot	XTREME 15 (RKB) to Mean Sea Level	4874.00ft
Vertical Reference Pt	XTREME 15 (RKB)	XTREME 15 (RKB) to Mud Line at Slot (SLOT#16 MOSER 36-4 (2232'FSL & 2476'FWL))	4874.00ft
MD Reference Pt	XTREME 15 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	174.61°



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WELLPATH DATA (89 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	4.900	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	4.900	15.00	0.00	0.00	0.00	0.00	
153.00	0.400	4.900	153.00	-0.47	0.48	0.04	0.29	
245.00	1.000	185.200	245.00	0.00	0.00	0.00	1.52	
338.00	3.800	165.900	337.91	3.84	-3.80	0.67	3.09	
426.00	6.200	168.700	425.56	11.45	-11.29	2.31	2.74	
516.00	8.000	177.200	514.87	22.55	-22.31	3.57	2.31	
606.00	9.600	176.500	603.81	36.30	-36.06	4.34	1.78	
696.00	10.500	176.100	692.43	52.00	-51.73	5.35	1.00	
762.00	11.100	177.500	757.26	64.36	-64.08	6.04	0.99	
837.00	10.500	177.500	830.93	78.40	-78.12	6.65	0.80	
927.00	12.100	173.300	919.18	96.02	-95.68	8.11	2.00	
1015.00	15.000	171.900	1004.73	116.62	-116.12	10.79	3.32	
1103.00	16.900	171.900	1089.33	140.77	-140.06	14.20	2.16	
1193.00	18.000	174.700	1175.19	167.75	-166.86	17.33	1.54	
1282.00	18.800	174.300	1259.64	195.84	-194.82	20.02	0.91	
1371.00	21.100	177.200	1343.30	226.19	-225.09	22.23	2.81	
1460.00	22.200	177.500	1426.02	258.98	-257.89	23.74	1.24	
1549.00	22.800	175.800	1508.24	293.02	-291.89	25.74	0.99	
1639.00	23.600	175.400	1590.97	328.47	-327.24	28.46	0.91	
1728.00	24.200	174.000	1672.33	364.52	-363.14	31.80	0.93	
1818.00	24.600	171.500	1754.30	401.67	-400.01	36.50	1.23	
1908.00	23.800	169.400	1836.39	438.46	-436.39	42.61	1.31	
1996.00	23.900	168.000	1916.88	473.86	-471.28	49.58	0.65	
2086.00	24.100	169.100	1999.10	510.26	-507.16	56.84	0.54	
2175.00	24.000	170.800	2080.37	546.40	-542.87	63.17	0.79	
2265.00	24.300	171.900	2162.49	583.16	-579.27	68.71	0.60	
2353.00	23.300	174.000	2243.01	618.65	-614.51	73.08	1.49	
2443.00	24.000	173.600	2325.45	654.75	-650.40	76.98	0.80	
2534.00	23.600	177.500	2408.72	691.45	-686.99	79.84	1.78	
2624.00	23.200	175.000	2491.32	727.17	-722.65	82.17	1.19	
2714.00	22.900	177.200	2574.13	762.39	-757.80	84.57	1.01	
2804.00	23.600	176.800	2656.82	797.89	-793.28	86.43	0.80	
2894.00	24.100	178.900	2739.14	834.22	-829.64	87.79	1.09	
2984.00	25.600	178.900	2820.80	871.93	-867.45	88.52	1.67	
3073.00	26.000	179.600	2900.93	910.54	-906.18	89.02	0.56	
3163.00	25.700	179.600	2981.93	949.63	-945.42	89.29	0.33	
3252.00	25.500	175.400	3062.20	988.02	-983.82	90.97	2.05	
3342.00	25.300	174.300	3143.50	1026.62	-1022.27	94.43	0.57	
3431.00	24.200	176.500	3224.32	1063.87	-1059.40	97.43	1.61	
3519.00	24.200	173.300	3304.59	1099.93	-1095.32	100.64	1.49	
3608.00	22.800	173.600	3386.21	1135.41	-1130.57	104.69	1.58	
3697.00	21.400	172.900	3468.67	1168.88	-1163.83	108.62	1.60	
3787.00	22.700	174.300	3552.08	1202.66	-1197.40	112.37	1.56	
3877.00	24.100	175.400	3634.68	1238.40	-1233.00	115.57	1.63	



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Area	COLORADO	Well	MOSER 36-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MOSER 36-4 AWB
Facility	SEC.04-T2N-R65W		

WELLPATH DATA (89 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3966.00	23.900	176.800	3715.99	1274.59	-1269.11	118.03	0.68	
4053.00	23.900	174.000	3795.53	1309.82	-1304.24	120.86	1.30	
4141.00	24.300	172.600	3875.86	1345.74	-1339.92	125.06	0.79	
4230.00	25.600	173.300	3956.55	1383.27	-1377.18	129.66	1.50	
4320.00	25.000	172.600	4037.92	1421.71	-1415.35	134.38	0.74	
4409.00	22.800	175.000	4119.29	1457.76	-1451.18	138.30	2.70	
4497.00	21.300	179.300	4200.85	1490.74	-1484.15	139.98	2.50	
4585.00	22.600	176.500	4282.47	1523.57	-1517.02	141.21	1.90	
4673.00	23.600	176.500	4363.42	1558.08	-1551.48	143.32	1.14	
4763.00	24.300	174.700	4445.67	1594.60	-1587.90	146.13	1.12	
4854.00	24.900	175.400	4528.41	1632.48	-1625.64	149.39	0.73	
4942.00	26.000	174.000	4607.87	1670.30	-1663.29	152.90	1.42	
5032.00	25.000	169.800	4689.11	1708.98	-1701.63	158.33	2.30	
5120.00	23.900	173.300	4769.22	1745.33	-1737.64	163.70	2.07	
5207.00	23.600	171.200	4848.85	1780.34	-1772.35	168.42	1.03	
5298.00	21.800	172.600	4932.80	1815.41	-1807.11	173.38	2.07	
5386.00	20.400	169.800	5014.90	1847.03	-1838.41	178.21	1.96	
5476.00	20.200	168.000	5099.31	1878.09	-1869.05	184.21	0.73	
5566.00	22.300	169.400	5183.19	1910.54	-1901.04	190.59	2.40	
5654.00	23.000	175.000	5264.41	1944.36	-1934.58	195.16	2.58	
5745.00	22.700	172.600	5348.27	1979.69	-1969.70	198.97	1.08	
5835.00	19.600	170.500	5432.20	2012.11	-2001.82	203.70	3.55	
5923.00	16.200	168.700	5515.93	2039.05	-2028.43	208.54	3.91	
6012.00	15.900	162.400	5601.46	2063.31	-2052.22	214.66	1.98	
6101.00	15.300	158.200	5687.19	2086.49	-2074.75	222.71	1.44	
6191.00	15.100	166.600	5774.05	2109.49	-2097.18	229.83	2.46	
6279.00	12.300	171.200	5859.54	2130.21	-2117.60	233.93	3.41	
6366.00	10.100	172.900	5944.88	2147.08	-2134.33	236.29	2.56	
6456.00	8.000	186.700	6033.76	2161.10	-2148.38	236.53	3.34	
6546.00	6.900	183.100	6123.00	2172.57	-2160.00	235.51	1.33	
6635.00	5.700	194.700	6211.47	2182.01	-2169.61	234.10	1.96	
6724.00	3.500	229.100	6300.19	2187.74	-2175.67	230.92	3.86	
6813.00	1.900	300.900	6389.11	2188.44	-2176.69	227.60	3.84	
6948.00	1.600	294.900	6524.05	2186.17	-2174.75	223.97	0.26	
7081.00	1.800	264.700	6656.99	2185.23	-2174.16	220.21	0.68	
7216.00	1.700	253.400	6791.93	2185.62	-2174.93	216.18	0.27	
7349.00	1.800	240.100	6924.87	2186.87	-2176.53	212.48	0.31	
7483.00	1.300	235.900	7058.82	2188.47	-2178.43	209.39	0.38	
7618.00	0.900	214.400	7193.79	2190.02	-2180.17	207.52	0.42	
7752.00	0.800	227.400	7327.78	2191.39	-2181.67	206.24	0.16	
7882.00	0.600	245.000	7457.77	2192.17	-2182.57	204.96	0.22	
8014.00	0.600	234.500	7589.76	2192.75	-2183.26	203.77	0.08	
8165.00	0.900	249.900	7740.75	2193.45	-2184.13	202.01	0.24	LAST BHI MWD SURVEY
8215.00	0.900	249.900	7790.74	2193.65	-2184.40	201.27	0.00	PROJECTION TO BIT



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Area	COLORADO	Well	MOSER 36-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MOSER 36-4 AWB
Facility	SEC.04-T2N-R65W		

HOLE & CASING SECTIONS - Ref Wellbore: MOSER 36-4 AWB Ref Wellpath: MOSER 36-4 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	15.00	817.00	802.00	15.00	811.27	0.00	0.00	-74.45	6.49
8.625in Casing Surface	15.00	807.00	792.00	15.00	801.44	0.00	0.00	-72.59	6.41
7.875in Open Hole	817.00	8215.00	7398.00	811.27	7790.74	-74.45	6.49	-2184.40	201.27

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
MOSER 36-4 BHL ON PLAT (49'FSL & 2653'FEL/2639'FWL, REV-1)		6000.00	-2183.23	162.98	3232331.58	1302456.95	40°09'38.340"N	104°40'07.424"W	point
MOSER 36-4 GEO TARGET 50' RADIUS (50'FSL & 2596'FEL, REV-2)		6000.00	-2182.23	119.95	3232288.55	1302457.55	40°09'38.350"N	104°40'07.978"W	point
MOSER 36-4 GEO TARGET 50' RADIUS (50'FSL & 2610'FEL REV-3)		6000.00	-2182.33	205.95	3232374.54	1302458.25	40°09'38.349"N	104°40'06.871"W	circle
MOSER 36-4 HARDLINE 50'S OF GEO TARGET		6000.00	-2232.23	162.95	3232332.01	1302407.96	40°09'37.856"N	104°40'07.424"W	point
MOSER 36-4HARDLINE 36'W OF GEO TARGET		6000.00	-2182.23	169.95	3232338.54	1302458.02	40°09'38.350"N	104°40'07.334"W	point

WELLPATH COMPOSITION - Ref Wellbore: MOSER 36-4 AWB Ref Wellpath: MOSER 36-4 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8165.00	NaviTrak (Standard)	BHI MWD SURVEYS <153-8165>	MOSER 36-4 AWB
8165.00	8215.00	Blind Drilling (std)	Projection to bit	MOSER 36-4 AWB



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	MOSER 36-4 AWB
Facility	SEC.04-T2N-R65W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8165.00	0.900	249.900	7740.75	LAST BHI MWD SURVEY
8215.00	0.900	249.900	7790.74	PROJECTION TO BIT