

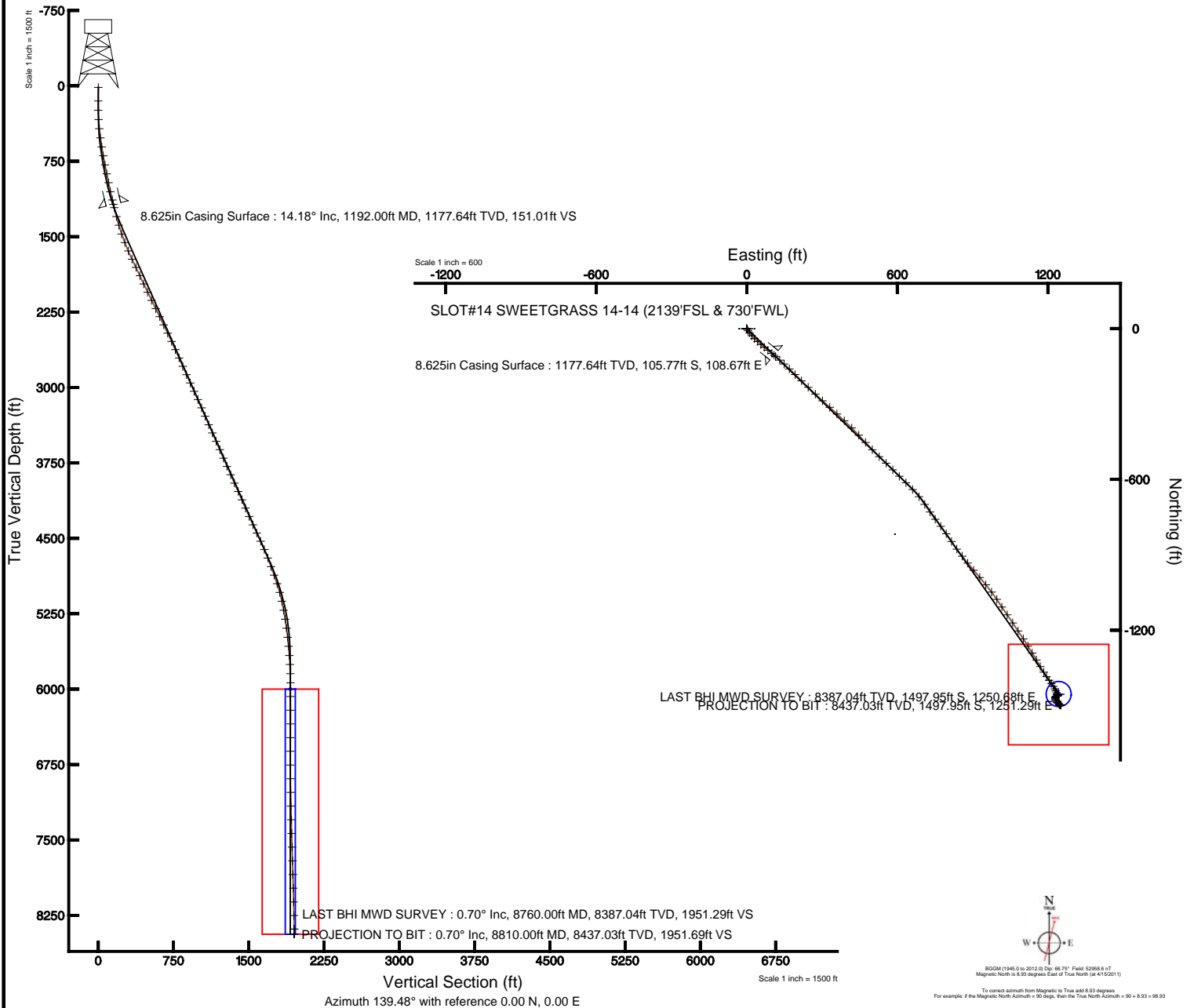


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#14 SWEETGRASS 14-14 (2139FSL & 730'FWL)  
Field: WELD COUNTY (KERR MCGEE) Well: SWEETGRASS 14-14  
Facility: SEC.14-T1N-R68W Wellbore: SWEETGRASS 14-14 PWB



Plot reference wellbore is SWEETGRASS 14-14 (REV A.0) PWB	
True vertical depths are referenced to XTREME 12 (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (SD1), US feet
Measured depths are referenced to XTREME 12 (RKB)	North Reference: True north
XTREME 12 (RKB) to Mean Sea Level 5120 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#14 SWEETGRASS 14-14 (2139FSL & 730'FWL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdam on 7/22/2011





# Actual Wellpath Report

SWEETGRASS 14-14 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#14 SWEETGRASS 14-14 (2139'FSL & 730'FWL)
Area	COLORADO	Well	SWEETGRASS 14-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 14-14 AWB
Facility	SEC.14-T1N-R68W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.0
North Reference	True	User	Cookdanm
Scale	0.999963	Report Generated	7/20/2011 at 3:24:21 PM
Convergence at slot	0.34° East	Database/Source file	WA_DENVER/SWEETGRASS_14-14_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	201.73	-3701.35	3146301.78	1261439.96	40°02'59.489"N	104°58'38.622"W
Facility Reference Pt			3150004.14	1261260.61	40°02'57.498"N	104°57'51.026"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 12 (RKB) to Facility Vertical Datum	5120.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RKB) to Mean Sea Level	5120.00ft
Vertical Reference Pt	XTREME 12 (RKB)	XTREME 12 (RKB) to Mud Line at Slot (SLOT#14 SWEETGRASS 14-14 (2139'FSL & 730'FWL))	5120.00ft
MD Reference Pt	XTREME 12 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	139.48°



# Actual Wellpath Report

SWEETGRASS 14-14 AWP

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REFERENCE WELLPATH IDENTIFICATION			
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Area	COLORADO	Well	SWEETGRASS 14-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 14-14 AWP
Facility	SEC.14-T1N-R68W		

WELLPATH DATA (90 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	283.700	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	283.700	15.00	0.00	0.00	0.00	0.00	
149.00	0.800	283.700	149.00	-0.76	0.22	-0.91	0.60	
242.00	1.000	147.600	241.99	-0.48	-0.31	-1.10	1.80	
334.00	3.100	140.600	333.93	2.80	-2.91	0.90	2.29	
426.00	5.500	145.500	425.66	9.67	-8.47	4.98	2.64	
518.00	8.000	144.500	517.02	20.44	-17.31	11.20	2.72	
608.00	9.200	141.700	606.00	33.86	-28.06	19.29	1.41	
699.00	10.900	133.200	695.61	49.69	-39.66	30.08	2.47	
790.00	11.000	133.200	784.95	66.87	-51.49	42.68	0.11	
881.00	11.400	129.700	874.22	84.36	-63.18	55.92	0.87	
971.00	10.900	129.700	962.52	101.51	-74.30	69.32	0.56	
1062.00	12.700	127.600	1051.59	119.78	-85.90	83.86	2.03	
1147.00	15.100	128.700	1134.10	139.81	-98.52	99.91	2.84	
1226.00	13.500	132.200	1210.65	159.06	-111.15	114.77	2.30	
1317.00	14.200	129.000	1299.01	180.58	-125.31	131.31	1.14	
1407.00	16.400	133.200	1385.81	204.06	-140.96	149.16	2.74	
1498.00	19.400	133.900	1472.40	231.88	-160.24	169.42	3.31	
1589.00	22.200	134.600	1557.46	264.06	-182.79	192.55	3.09	
1680.00	23.600	133.900	1641.28	299.32	-207.49	217.92	1.57	
1770.00	25.200	133.600	1723.24	336.31	-233.20	244.78	1.78	
1861.00	26.000	133.900	1805.31	375.44	-260.39	273.18	0.89	
1952.00	25.100	132.200	1887.41	414.43	-287.19	301.85	1.28	
2043.00	25.100	131.800	1969.82	452.71	-313.02	330.54	0.19	
2134.00	25.800	132.900	2051.99	491.51	-339.36	359.43	0.93	
2225.00	26.400	133.200	2133.71	531.29	-366.69	388.69	0.68	
2316.00	27.100	134.600	2214.97	572.06	-395.10	418.19	1.03	
2406.00	26.200	136.700	2295.41	612.33	-423.95	446.42	1.45	
2497.00	25.300	137.400	2377.37	651.83	-452.88	473.36	1.04	
2588.00	26.100	136.700	2459.37	691.25	-481.77	500.25	0.94	
2679.00	25.000	133.200	2541.47	730.36	-509.50	528.00	2.05	
2769.00	24.400	133.900	2623.24	767.77	-535.41	555.25	0.74	
2860.00	24.200	135.300	2706.18	805.08	-561.70	581.92	0.67	
2951.00	23.600	133.900	2789.37	841.81	-587.59	608.16	0.91	
3042.00	24.300	134.600	2872.54	878.60	-613.37	634.62	0.83	
3133.00	24.700	136.000	2955.35	916.23	-640.19	661.16	0.77	
3224.00	25.200	140.600	3037.86	954.58	-668.84	686.67	2.20	
3314.00	24.600	145.900	3119.51	992.36	-699.16	709.33	2.57	
3405.00	23.500	145.500	3202.60	1029.23	-729.80	730.23	1.22	
3496.00	22.500	142.000	3286.37	1064.67	-758.48	751.23	1.86	
3587.00	23.600	142.700	3370.11	1100.25	-786.69	772.99	1.25	
3677.00	24.700	143.800	3452.23	1136.99	-816.19	795.01	1.32	
3768.00	24.400	147.300	3535.01	1174.57	-847.36	816.40	1.63	
3859.00	23.000	143.400	3618.34	1210.93	-877.45	837.15	2.31	
3950.00	22.800	141.000	3702.17	1246.30	-905.42	858.85	1.05	
4040.00	23.400	142.000	3784.95	1281.58	-933.06	880.83	0.80	
4131.00	24.600	139.600	3868.08	1318.58	-961.73	904.23	1.70	
4222.00	24.500	139.200	3950.86	1356.39	-990.43	928.83	0.21	
4313.00	24.500	141.300	4033.66	1394.12	-1019.44	952.96	0.96	
4404.00	23.700	142.000	4116.73	1431.25	-1048.58	976.02	0.93	
4494.00	23.000	147.300	4199.37	1466.74	-1077.63	996.65	2.46	
4585.00	24.100	145.200	4282.79	1502.84	-1107.85	1016.86	1.52	
4676.00	24.700	145.500	4365.66	1540.23	-1138.78	1038.24	0.67	
4767.00	26.100	146.600	4447.86	1579.01	-1171.16	1060.03	1.62	
4857.00	25.100	145.900	4529.03	1617.62	-1203.49	1081.63	1.16	
4948.00	23.400	146.600	4612.00	1654.74	-1234.57	1102.40	1.89	
5039.00	21.100	148.300	4696.22	1688.86	-1263.59	1120.95	2.62	
5130.00	20.700	148.300	4781.23	1720.94	-1291.21	1138.01	0.44	
5221.00	20.500	149.000	4866.41	1752.54	-1318.55	1154.67	0.35	

5311.00	18.800	149.400	4951.16	1782.37	-1344.55	1170.17	1.89
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# Actual Wellpath Report

SWEETGRASS 14-14 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#14 SWEETGRASS 14-14 (2139'FSL & 730'FWL)
Area	COLORADO	Well	SWEETGRASS 14-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 14-14 AWB
Facility	SEC.14-T1N-R68W		

WELLPATH DATA (90 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5402.00	15.000	148.700	5038.22	1808.45	-1367.24	1183.76	4.18	
5493.00	11.900	146.200	5126.71	1829.40	-1385.10	1195.10	3.47	
5584.00	10.500	143.100	5215.98	1846.99	-1399.53	1205.30	1.67	
5674.00	9.500	144.100	5304.61	1862.58	-1412.10	1214.57	1.13	
5765.00	8.000	149.400	5394.55	1876.30	-1423.64	1222.20	1.87	
5856.00	6.200	152.900	5484.85	1887.32	-1433.47	1227.66	2.03	
5946.00	5.200	155.400	5574.40	1895.97	-1441.50	1231.58	1.14	
6037.00	4.800	148.300	5665.06	1903.70	-1448.49	1235.29	0.81	
6128.00	3.100	156.800	5755.84	1909.81	-1453.99	1238.26	1.97	
6219.00	1.500	161.000	5846.76	1913.27	-1457.38	1239.62	1.77	
6310.00	0.600	153.600	5937.75	1914.84	-1458.93	1240.22	1.00	
6446.00	0.600	202.500	6073.74	1915.85	-1460.23	1240.26	0.37	
6582.00	0.700	245.300	6209.73	1915.95	-1461.23	1239.24	0.36	
6718.00	1.100	259.400	6345.71	1915.07	-1461.82	1237.20	0.33	
6855.00	0.900	246.100	6482.69	1914.11	-1462.50	1234.92	0.22	
6991.00	0.900	219.700	6618.68	1913.98	-1463.75	1233.26	0.30	
7128.00	0.900	232.400	6755.66	1914.11	-1465.24	1231.72	0.15	
7264.00	1.100	179.600	6891.64	1915.05	-1467.19	1230.89	0.67	
7400.00	1.400	188.700	7027.61	1917.14	-1470.14	1230.65	0.26	
7536.00	1.500	180.600	7163.57	1919.56	-1473.56	1230.38	0.17	
7672.00	1.700	165.200	7299.51	1922.72	-1477.29	1230.87	0.35	
7808.00	2.000	159.600	7435.44	1926.77	-1481.47	1232.21	0.26	
7945.00	2.200	148.000	7572.35	1931.61	-1485.94	1234.44	0.34	
8081.00	1.100	104.800	7708.30	1935.27	-1488.49	1237.09	1.17	
8217.00	2.500	107.200	7844.23	1938.85	-1489.70	1241.18	1.03	
8353.00	2.200	167.400	7980.13	1943.66	-1493.12	1244.59	1.74	
8490.00	1.300	115.200	8117.07	1947.40	-1496.35	1246.57	1.27	
8626.00	0.900	116.400	8253.05	1949.79	-1497.48	1248.92	0.29	
8760.00	0.700	90.000	8387.04	1951.29	-1497.95	1250.68	0.31	LAST BHI MWD SURVEY
8810.00	0.700	90.000	8437.03	1951.69	-1497.95	1251.29	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: SWEETGRASS 14-14 AWB Ref Wellpath: SWEETGRASS 14-14 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	1202.00	1187.00	15.00	1187.34	0.00	0.00	-107.37	110.51
8.625in Casing Surface	15.00	1192.00	1177.00	15.00	1177.64	0.00	0.00	-105.77	108.67
7.875in Open Hole	1202.00	8810.00	7608.00	1187.34	8437.03	-107.37	110.51	-1497.95	1251.29

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SWEETGRASS 14-14 GEO TARGET 50' RADIUS (660'FSL & 1980'FWL, REV-1)		6000.00	-1454.17	1243.09	3147553.38	1259993.19	40°02'45.118"N	104°58'22.638"W	circle
SWEETGRASS 14-14 LEGAL BOX (196'N,204'S,200'E,200'W OF GEO TARGET)		6000.00	-1456.21	1243.09	3147553.38	1259991.16	40°02'45.098"N	104°58'22.638"W	square

WELLPATH COMPOSITION - Ref Wellbore: SWEETGRASS 14-14 AWB Ref Wellpath: SWEETGRASS 14-14 AWP					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
15.00	8760.00	NaviTrak (Standard)	BHI MWD SURVEYS <149-8760>	SWEETGRASS 14-14 AWB	
8760.00	8810.00	Blind Drilling (std)	Projection to bit	SWEETGRASS 14-14 AWB	



# Actual Wellpath Report

SWEETGRASS 14-14 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#14 SWEETGRASS 14-14 (2139'FSL & 730'FWL)
Area	COLORADO	Well	SWEETGRASS 14-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 14-14 AWB
Facility	SEC.14-T1N-R68W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8760.00	0.700	90.000	8387.04	LAST BHI MWD SURVEY
8810.00	0.700	90.000	8437.03	PROJECTION TO BIT