

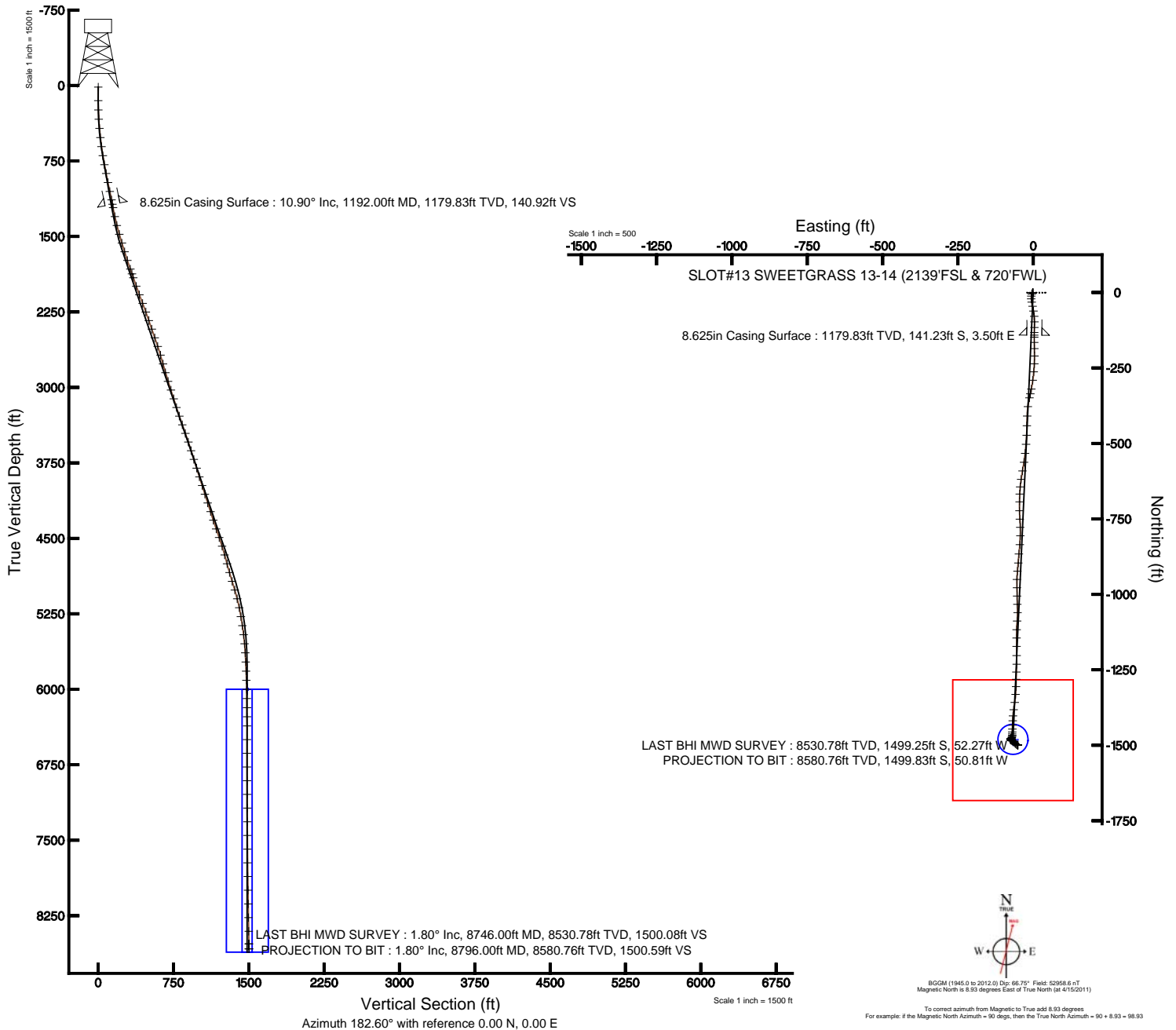


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#13 SWEETGRASS 13-14 (2139'FSL & 720'FWL)  
Field: WELD COUNTY (KERR MCGEE) Well: SWEETGRASS 13-14  
Facility: SEC.14-T1N-R68W Wellbore: SWEETGRASS 13-14 PWB



Plot reference wellpath is SWEETGRASS 13-14 (REV.A.0) PWP	
True vertical depths are referenced to XTREME 12 (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), 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#13 SWEETGRASS 13-14 (2139'FSL & 720'FWL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdenn on 7/25/2011





# Actual Wellpath Report

SWEETGRASS 13-14 AWP

Page 1 of 5



## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#13 SWEETGRASS 13-14 (2139'FSL & 720'FWL)
Area	COLORADO	Well	SWEETGRASS 13-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 13-14 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 3:09:51 PM
Convergence at slot	0.34° East	Database/Source file	WA_DENVER/SWEETGRASS_13-14_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	-3711.43	3146291.71	1261439.90	40°02'59.489"N	104°58'38.752"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#13 SWEETGRASS 13-14 (2139'FSL & 720'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	182.60°



# Actual Wellpath Report

SWEETGRASS 13-14 AWP

Page 2 of 5



## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#13 SWEETGRASS 13-14 (2139'FSL & 720'FWL)
Area	COLORADO	Well	SWEETGRASS 13-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 13-14 AWP
Facility	SEC.14-T1N-R68W		

## WELLPATH DATA (92 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	285.800	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	285.800	15.00	0.00	0.00	0.00	0.00	
149.00	1.000	285.800	148.99	-0.27	0.32	-1.13	0.75	
242.00	1.900	214.400	241.97	0.86	-0.73	-2.78	1.98	
334.00	3.700	198.600	333.86	5.01	-4.81	-4.59	2.11	
426.00	5.300	188.800	425.57	12.09	-11.82	-6.18	1.92	
518.00	6.000	177.200	517.13	21.10	-20.82	-6.60	1.45	
608.00	8.200	167.300	606.43	31.97	-31.78	-4.96	2.79	
699.00	9.400	168.400	696.36	45.44	-45.39	-2.04	1.33	
790.00	10.900	170.100	785.93	61.04	-61.15	0.94	1.68	
880.00	11.900	174.400	874.16	78.54	-78.77	3.31	1.46	
971.00	11.500	180.000	963.27	96.88	-97.18	4.22	1.32	
1062.00	11.800	181.400	1052.40	115.25	-115.55	3.99	0.45	
1147.00	11.300	181.100	1135.68	132.26	-132.56	3.62	0.59	
1226.00	10.600	180.000	1213.24	147.26	-147.57	3.47	0.92	
1317.00	11.900	179.300	1302.49	164.99	-165.32	3.59	1.44	
1407.00	14.300	178.700	1390.14	185.34	-185.71	3.95	2.67	
1498.00	16.800	179.400	1477.80	209.69	-210.10	4.35	2.75	
1589.00	16.100	183.100	1565.08	235.44	-235.85	3.80	1.38	
1680.00	18.200	185.600	1652.03	262.25	-262.60	1.73	2.45	
1770.00	18.400	186.800	1737.48	290.45	-290.69	-1.32	0.47	
1861.00	19.100	191.900	1823.65	319.47	-319.53	-6.09	1.96	
1911.00	19.100	191.900	1870.90	335.62	-335.53	-9.47	0.00	
1952.00	19.200	193.700	1909.63	348.85	-348.65	-12.45	1.46	
2042.00	19.600	187.000	1994.53	378.43	-378.01	-17.79	2.51	
2133.00	20.500	181.400	2080.02	409.58	-409.10	-20.04	2.33	
2224.00	21.100	181.700	2165.09	441.89	-441.40	-20.92	0.67	
2315.00	19.600	181.000	2250.41	473.53	-473.03	-21.67	1.67	
2405.00	19.300	187.000	2335.28	503.45	-502.89	-23.74	2.24	
2496.00	19.200	184.500	2421.20	533.40	-532.74	-26.75	0.91	
2587.00	18.900	189.800	2507.22	562.98	-562.18	-30.43	1.93	
2677.00	19.100	190.200	2592.32	592.04	-591.03	-35.52	0.27	
2768.00	17.000	188.400	2678.83	620.03	-618.85	-40.10	2.39	
2859.00	15.300	186.000	2766.24	645.25	-643.95	-43.30	2.01	
2950.00	15.000	181.000	2854.08	669.01	-667.67	-44.76	1.47	
3040.00	18.500	181.400	2940.25	694.94	-693.60	-45.31	3.89	
3131.00	19.000	179.300	3026.42	724.16	-722.84	-45.49	0.92	
3222.00	16.800	175.800	3113.01	752.01	-750.78	-44.34	2.69	
3313.00	18.000	179.300	3199.85	779.11	-777.95	-43.21	1.75	
3403.00	18.400	178.900	3285.35	807.17	-806.06	-42.76	0.47	
3494.00	19.400	187.400	3371.46	836.57	-835.41	-44.44	3.22	
3585.00	20.200	183.900	3457.08	867.34	-866.08	-47.45	1.57	
3676.00	18.300	183.900	3542.99	897.33	-896.01	-49.49	2.09	
3766.00	17.200	187.700	3628.70	924.71	-923.29	-52.24	1.77	
3857.00	17.800	180.700	3715.50	952.02	-950.54	-54.21	2.40	
3948.00	17.800	178.200	3802.15	979.79	-978.35	-53.94	0.84	
4039.00	17.200	180.300	3888.93	1007.10	-1005.70	-53.57	0.96	
4129.00	18.300	175.800	3974.65	1034.43	-1033.11	-52.61	1.95	
4220.00	17.200	181.700	4061.33	1062.07	-1060.81	-51.96	2.32	
4311.00	18.300	183.900	4147.99	1089.81	-1088.51	-53.33	1.42	
4402.00	18.300	182.800	4234.39	1118.38	-1117.03	-55.00	0.38	
4492.00	17.500	177.500	4320.04	1145.99	-1144.67	-55.10	2.02	
4583.00	18.400	182.400	4406.62	1173.98	-1172.69	-55.11	1.93	
4674.00	20.500	177.500	4492.42	1204.22	-1202.96	-55.01	2.92	
4764.00	16.900	181.700	4577.66	1233.01	-1231.79	-54.71	4.27	
4855.00	15.800	183.500	4664.98	1258.62	-1257.38	-55.86	1.33	
4946.00	15.000	179.600	4752.72	1282.77	-1281.52	-56.54	1.44	
5037.00	16.000	182.400	4840.41	1307.07	-1305.83	-56.98	1.37	
5128.00	17.200	184.500	4927.61	1333.06	-1331.77	-58.56	1.47	

5218.00	17.200	187.400	5013.59	1359.62	-1358.24	-61.32	0.95
---------	--------	---------	---------	---------	----------	--------	------



# Actual Wellpath Report

SWEETGRASS 13-14 AWP

Page 3 of 5



## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#13 SWEETGRASS 13-14 (2139'FSL & 720'FWL)
Area	COLORADO	Well	SWEETGRASS 13-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 13-14 AWB
Facility	SEC.14-T1N-R68W		

## WELLPATH DATA (92 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5309.00	14.000	188.800	5101.23	1383.98	-1382.46	-64.74	3.54	
5400.00	11.800	184.200	5189.93	1404.22	-1402.62	-67.10	2.67	
5490.00	9.000	181.400	5278.44	1420.46	-1418.84	-67.95	3.16	
5581.00	9.400	183.500	5368.27	1435.01	-1433.38	-68.58	0.57	
5672.00	7.000	182.100	5458.33	1447.99	-1446.34	-69.23	2.65	
5763.00	5.100	182.400	5548.82	1457.58	-1455.92	-69.61	2.09	
5853.00	3.100	178.600	5638.59	1464.01	-1462.35	-69.71	2.24	
5944.00	2.500	181.000	5729.48	1468.45	-1466.79	-69.69	0.67	
6035.00	2.100	189.200	5820.40	1472.09	-1470.42	-69.99	0.57	
6126.00	1.700	195.100	5911.35	1475.06	-1473.37	-70.61	0.49	
6216.00	1.500	200.700	6001.32	1477.48	-1475.76	-71.37	0.28	
6307.00	1.500	206.700	6092.29	1479.70	-1477.94	-72.33	0.17	
6398.00	1.000	210.600	6183.27	1481.49	-1479.69	-73.27	0.56	
6489.00	1.000	260.100	6274.25	1482.36	-1480.51	-74.45	0.92	
6580.00	0.600	1.000	6365.25	1482.06	-1480.17	-75.23	1.38	
6716.00	0.300	30.200	6501.24	1481.03	-1479.15	-75.04	0.27	
6852.00	0.200	8.400	6637.24	1480.48	-1478.61	-74.82	0.10	
6988.00	0.500	124.800	6773.24	1480.56	-1478.71	-74.30	0.45	
7124.00	0.900	141.000	6909.23	1481.68	-1479.88	-73.14	0.33	
7260.00	0.500	194.000	7045.22	1483.06	-1481.29	-72.61	0.53	
7396.00	0.600	235.200	7181.22	1484.07	-1482.27	-73.34	0.29	
7532.00	0.400	267.500	7317.21	1484.54	-1482.70	-74.40	0.25	
7668.00	0.400	279.200	7453.21	1484.53	-1482.64	-75.34	0.06	
7804.00	0.900	121.300	7589.20	1484.99	-1483.12	-74.90	0.94	
7941.00	1.800	121.900	7726.16	1486.56	-1484.82	-72.15	0.66	
8077.00	1.600	117.400	7862.10	1488.40	-1486.82	-68.65	0.18	
8213.00	2.200	137.800	7998.03	1491.05	-1489.63	-65.21	0.66	
8349.00	1.600	126.900	8133.96	1493.97	-1492.70	-61.94	0.51	
8485.00	1.700	131.400	8269.90	1496.31	-1495.17	-58.91	0.12	
8621.00	1.700	121.300	8405.84	1498.54	-1497.56	-55.67	0.22	
8746.00	1.800	111.800	8530.78	1500.08	-1499.25	-52.27	0.25	LAST BHI MWD SURVEY
8796.00	1.800	111.800	8580.76	1500.59	-1499.83	-50.81	0.00	PROJECTION TO BIT

## HOLE & CASING SECTIONS - Ref Wellbore: SWEETGRASS 13-14 AWB Ref Wellpath: SWEETGRASS 13-14 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	1189.65	0.00	0.00	-143.11	3.49
8.625in Casing Surface	15.00	1192.00	1177.00	15.00	1179.83	0.00	0.00	-141.23	3.50
7.875in Open Hole	1202.00	8796.00	7594.00	1189.65	8580.76	-143.11	3.49	-1499.83	-50.81



# Actual Wellpath Report

SWEETGRASS 13-14 AWP

Page 4 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#13 SWEETGRASS 13-14 (2139'FSL & 720'FWL)
Area	COLORADO	Well	SWEETGRASS 13-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 13-14 AWB
Facility	SEC.14-T1N-R68W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SWEETGRASS 13-14 GEO TARGET 50' RADIUS (660'FSL & 660'FWL, REV-1)		6000.00	-1480.51	-67.23	3146233.21	1259959.07	40°02'44.858"N	104°58'39.616"W	circle
SWEETGRASS 13-14 LEGAL BOX (197'N,203'S,200'E,200'W OF THE GEO TARGET)		6000.00	-1483.47	-67.19	3146233.26	1259956.12	40°02'44.829"N	104°58'39.616"W	square

WELLPATH COMPOSITION - Ref Wellbore: SWEETGRASS 13-14 AWB					Ref Wellpath: SWEETGRASS 13-14 AWP	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore	
15.00	8746.00	NaviTrak (Standard)	BHI MWD SURVEYS <149-8746>		SWEETGRASS 13-14 AWB	
8746.00	8796.00	Blind Drilling (std)	Projection to bit		SWEETGRASS 13-14 AWB	



# Actual Wellpath Report

SWEETGRASS 13-14 AWP

Page 5 of 5



## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#13 SWEETGRASS 13-14 (2139'FSL & 720'FWL)
Area	COLORADO	Well	SWEETGRASS 13-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 13-14 AWB
Facility	SEC.14-T1N-R68W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8746.00	1.800	111.800	8530.78	LAST BHI MWD SURVEY
8796.00	1.800	111.800	8580.76	PROJECTION TO BIT