

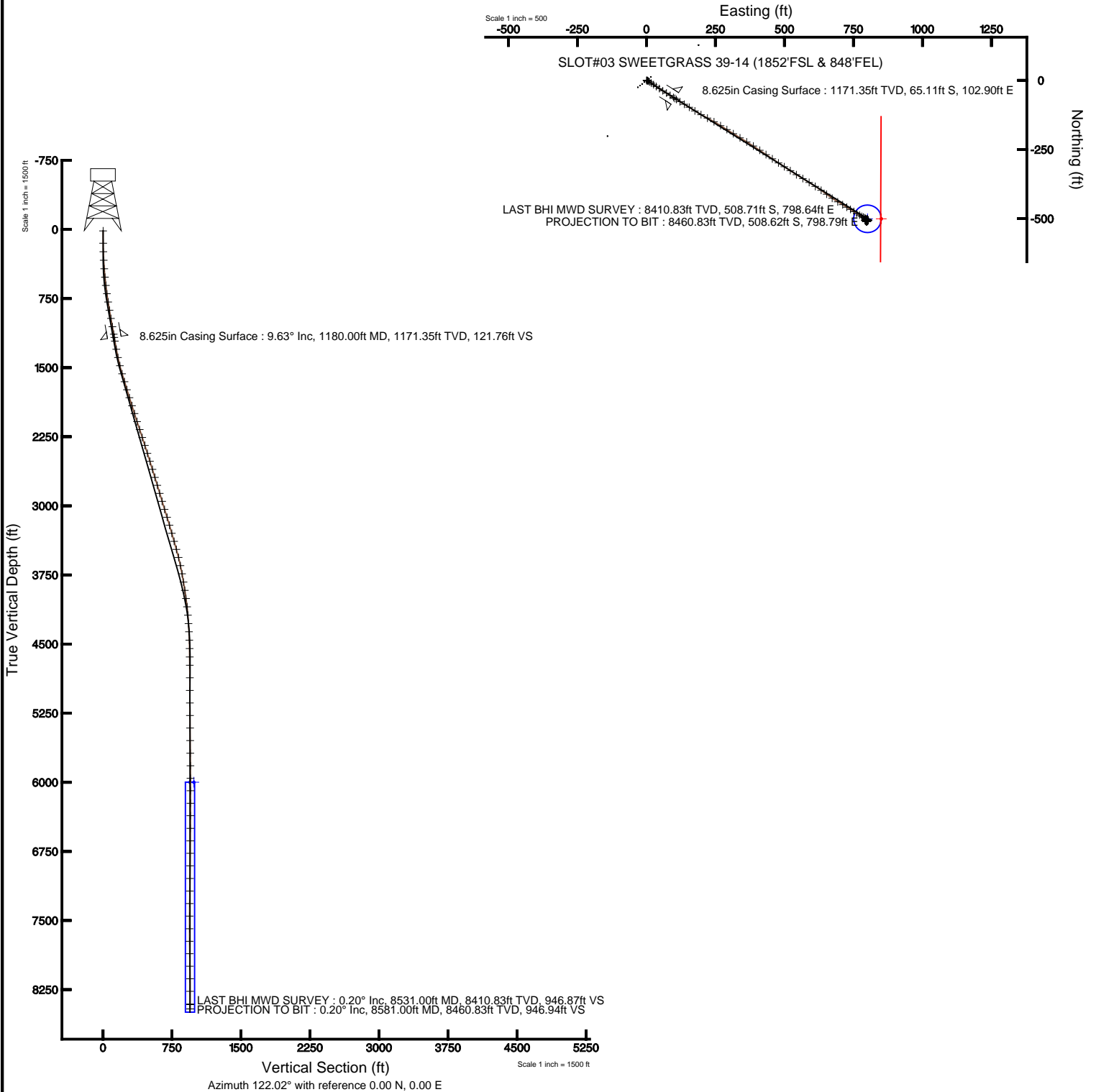


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#03 SWEETGRASS 39-14 (1852'FSL & 848'FEL)  
Field: WELD COUNTY (KERR MCGEE) Well: SWEETGRASS 39-14  
Facility: SEC.14-T1N-R68W Wellbore: SWEETGRASS 39-14 PWB



Plot reference wellpath is SWEETGRASS 39-14 (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: 5151 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#03 SWEETGRASS 39-14 (1852'FSL & 848'FEL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookadem on 7/21/2011





# Actual Wellpath Report

SWEETGRASS 39-14 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 SWEETGRASS 39-14 (1852'FSL & 848'FEL)
Area	COLORADO	Well	SWEETGRASS 39-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 39-14 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	7/21/2011 at 10:50:39 AM
Convergence at slot	0.35° East	Database/Source file	WA_DENVER/SWEETGRASS_39-14_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-12.39	-15.68	3149988.54	1261248.13	40°02'57.376"N	104°57'51.228"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	5151.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RKB) to Mean Sea Level	5151.00ft
Vertical Reference Pt	XTREME 12 (RKB)	XTREME 12 (RKB) to Mud Line at Slot (SLOT#03 SWEETGRASS 39-14 (1852'FSL & 848'FEL))	5151.00ft
MD Reference Pt	XTREME 12 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	122.02°



# Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 SWEETGRASS 39-14 (1852'FSL & 848'FEL)
Area	COLORADO	Well	SWEETGRASS 39-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 39-14 AWP
Facility	SEC.14-T1N-R68W		

WELLPATH DATA (83 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	95.100	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	95.100	15.00	0.00	0.00	0.00	0.00	
149.00	1.300	95.100	148.99	1.36	-0.14	1.51	0.97	
242.00	1.300	110.200	241.96	3.33	-0.59	3.55	0.37	
334.00	2.700	123.900	333.91	6.52	-2.16	6.33	1.60	
426.00	4.400	125.000	425.73	12.21	-5.40	11.02	1.85	
518.00	5.600	122.500	517.38	20.22	-9.83	17.70	1.33	
608.00	6.900	124.300	606.84	30.01	-15.24	25.87	1.46	
699.00	8.000	123.900	697.07	41.80	-21.85	35.64	1.21	
790.00	9.000	123.900	787.07	55.25	-29.35	46.81	1.10	
881.00	9.700	122.200	876.86	70.03	-37.41	59.20	0.83	
971.00	10.200	121.500	965.51	85.58	-45.61	72.41	0.57	
1062.00	9.900	122.900	1055.11	101.46	-54.07	85.85	0.43	
1145.00	10.000	122.900	1136.86	115.80	-61.86	97.89	0.12	
1221.00	9.200	123.200	1211.80	128.47	-68.77	108.52	1.05	
1311.00	10.500	121.300	1300.47	143.86	-76.97	121.54	1.49	
1402.00	12.400	120.100	1389.65	161.92	-86.18	137.08	2.10	
1493.00	14.300	121.800	1478.19	182.93	-97.00	155.09	2.13	
1584.00	16.600	124.300	1565.90	207.16	-110.25	175.38	2.63	
1674.00	17.100	119.000	1652.04	233.22	-123.91	197.58	1.79	
1765.00	16.700	116.900	1739.11	259.60	-136.31	220.94	0.80	
1856.00	18.000	120.800	1825.97	286.68	-149.43	244.68	1.92	
1947.00	17.700	121.100	1912.59	314.57	-163.78	268.60	0.34	
2037.00	17.100	121.800	1998.47	341.48	-177.82	291.56	0.71	
2128.00	18.500	123.600	2085.11	369.30	-192.86	314.96	1.65	
2219.00	17.800	120.400	2171.59	397.63	-207.88	338.98	1.34	
2310.00	18.500	122.500	2258.06	425.97	-222.68	363.15	1.05	
2400.00	18.200	120.800	2343.48	454.30	-237.55	387.27	0.68	
2491.00	17.600	125.000	2430.08	482.25	-252.72	410.75	1.56	
2582.00	17.600	124.600	2516.82	509.74	-268.42	433.34	0.13	
2673.00	17.600	123.200	2603.56	537.23	-283.77	456.18	0.47	
2764.00	16.400	125.000	2690.58	563.82	-298.67	478.21	1.44	
2854.00	16.400	120.800	2776.93	589.21	-312.46	499.54	1.32	
2945.00	16.800	124.300	2864.13	615.20	-326.45	521.44	1.18	
3036.00	17.100	123.600	2951.18	641.71	-341.27	543.44	0.40	
3127.00	17.600	119.000	3038.05	668.82	-355.34	566.62	1.60	
3217.00	17.200	123.200	3123.93	695.72	-369.23	589.66	1.46	
3308.00	16.600	123.200	3211.00	722.17	-383.71	611.79	0.66	
3399.00	15.900	123.200	3298.36	747.62	-397.65	633.10	0.77	
3489.00	15.700	128.500	3384.97	772.05	-411.99	652.95	1.62	
3580.00	16.100	123.600	3472.49	796.90	-426.63	673.09	1.54	
3671.00	14.400	121.800	3560.28	820.83	-439.58	693.22	1.94	
3762.00	11.800	118.700	3648.91	841.44	-450.01	711.00	2.96	
3852.00	10.400	122.200	3737.22	858.75	-458.76	725.95	1.73	
3943.00	9.300	120.100	3826.88	874.31	-466.83	739.26	1.27	
4034.00	9.100	125.000	3916.71	888.85	-474.64	751.52	0.89	
4124.00	7.600	121.800	4005.76	901.91	-481.86	762.41	1.74	
4215.00	7.000	119.400	4096.02	913.46	-487.75	772.35	0.74	
4306.00	4.500	119.400	4186.55	922.57	-492.23	780.30	2.75	
4397.00	3.600	112.700	4277.33	928.96	-495.08	786.04	1.12	
4487.00	2.800	122.200	4367.18	933.94	-497.35	790.51	1.06	
4578.00	2.400	141.500	4458.09	937.96	-500.02	793.57	1.05	
4669.00	1.300	164.000	4549.04	940.53	-502.50	795.05	1.43	
4760.00	1.100	150.700	4640.03	942.06	-504.26	795.76	0.38	
4850.00	0.600	41.300	4730.02	942.89	-504.66	796.49	1.57	
4986.00	0.800	48.000	4866.01	943.27	-503.49	797.67	0.16	
5123.00	0.500	28.700	5003.00	943.50	-502.32	798.66	0.27	
5259.00	0.300	54.700	5139.00	943.60	-501.60	799.24	0.20	
5396.00	0.500	131.700	5275.99	944.33	-501.79	799.98	0.38	

5532.00	0.700	145.000	5411.99	945.68	-502.86	800.90	0.18
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# Actual Wellpath Report

SWEETGRASS 39-14 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 SWEETGRASS 39-14 (1852'FSL & 848'FEL)
Area	COLORADO	Well	SWEETGRASS 39-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 39-14 AWB
Facility	SEC.14-T1N-R68W		

## WELLPATH DATA (83 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5668.00	0.600	152.400	5547.98	947.06	-504.17	801.71	0.10	
5805.00	0.700	120.400	5684.97	948.51	-505.23	802.76	0.27	
5941.00	0.400	116.900	5820.96	949.82	-505.87	803.90	0.22	
6077.00	0.200	149.200	5956.96	950.50	-506.29	804.44	0.19	
6212.00	0.300	218.100	6091.96	950.67	-506.77	804.35	0.22	
6348.00	0.900	229.400	6227.95	950.32	-507.74	803.32	0.45	
6483.00	1.000	231.200	6362.93	949.61	-509.17	801.59	0.08	
6620.00	1.000	228.000	6499.91	948.89	-510.72	799.77	0.04	
6757.00	0.400	256.500	6636.90	948.23	-511.63	798.42	0.49	
6892.00	0.400	300.400	6771.90	947.42	-511.50	797.55	0.22	
7028.00	0.500	313.400	6907.89	946.37	-510.86	796.71	0.10	
7165.00	0.500	304.900	7044.89	945.18	-510.10	795.79	0.05	
7301.00	0.900	324.300	7180.88	943.60	-508.90	794.68	0.34	
7437.00	0.600	322.600	7316.87	941.95	-507.46	793.62	0.22	
7573.00	0.400	311.300	7452.86	940.81	-506.58	792.83	0.16	
7710.00	0.100	159.100	7589.86	940.44	-506.38	792.52	0.36	
7846.00	0.400	114.800	7725.86	941.00	-506.69	792.99	0.25	
7982.00	0.600	122.100	7861.85	942.19	-507.27	794.03	0.15	
8118.00	0.900	100.400	7997.84	943.89	-507.84	795.68	0.30	
8254.00	0.600	110.600	8133.83	945.58	-508.28	797.40	0.24	
8390.00	0.200	129.900	8269.83	946.51	-508.68	798.25	0.31	
8531.00	0.200	58.200	8410.83	946.87	-508.71	798.64	0.17	LAST BHI MWD SURVEY
8581.00	0.200	58.200	8460.83	946.94	-508.62	798.79	0.00	PROJECTION TO BIT

## HOLE & CASING SECTIONS - Ref Wellbore: SWEETGRASS 39-14 AWB Ref Wellpath: SWEETGRASS 39-14 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	1200.00	1185.00	15.00	1191.07	0.00	0.00	-66.91	105.67
8.625in Casing Surface	15.00	1180.00	1165.00	15.00	1171.35	0.00	0.00	-65.11	102.90
7.875in Open Hole	1200.00	8581.00	7381.00	1191.07	8460.83	-66.91	105.67	-508.62	798.79

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SWEETGRASS 39-14 GEO TARGET 50' RADIUS (1335'FSL & 50'FEL, REV-1)		6000.00	-500.85	801.02	3150792.53	1260752.15	40°02'52.426"N	104°57'40.928"W	circle
SWEETGRASS 39-14 HARDLINE 50'E OF GEO TARGET		6000.00	-500.89	850.99	3150842.50	1260752.41	40°02'52.426"N	104°57'40.285"W	point

## WELLPATH COMPOSITION - Ref Wellbore: SWEETGRASS 39-14 AWB Ref Wellpath: SWEETGRASS 39-14 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8531.00	NaviTrak (Standard)	BHI MWD SURVEYS <149-8531>	SWEETGRASS 39-14 AWB
8531.00	8581.00	Blind Drilling (std)	Projection to bit	SWEETGRASS 39-14 AWB



# Actual Wellpath Report

SWEETGRASS 39-14 AWP

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## REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	SWEETGRASS 39-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 39-14 AWB
Facility	SEC.14-T1N-R68W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8531.00	0.200	58.200	8410.83	LAST BHI MWD SURVEY
8581.00	0.200	58.200	8460.83	PROJECTION TO BIT