

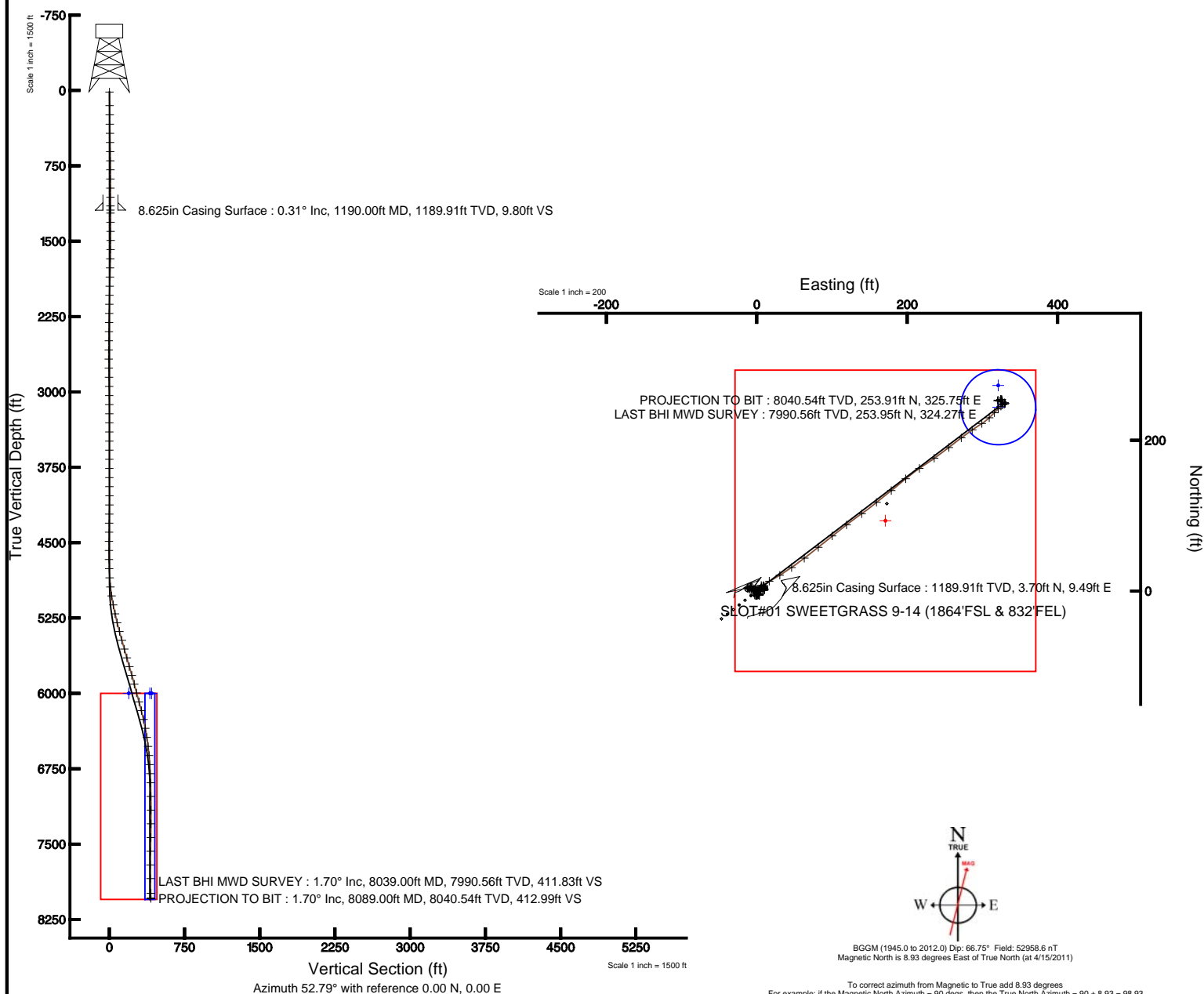


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#01 SWEETGRASS 9-14 (1864FSL & 832FEL)  
Field: WELD COUNTY (KERR MCGEE) Well: SWEETGRASS 9-14  
Facility: SEC.14-T1N-R68W Wellbore: SWEETGRASS 9-14 PWB



Plot reference wellpath is SWEETGRASS 9-14 (REV-A.0) PWB	
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 511 feet	Scale: True distance
Mean Sea Level to Mudline (at Slot: SWEETGRASS 9-14 (1864FSL & 832FEL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ccsdaren on 7/20/2011





# Actual Wellpath Report

SWEETGRASS 9-14 awp

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## REFERENCE WELLPATH IDENTIFICATION

Operator	<b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>	Slot	<b>SLOT#01 SWEETGRASS 9-14 (1864'FSL &amp; 832'FEL)</b>
Area	<b>COLORADO</b>	Well	<b>SWEETGRASS 9-14</b>
Field	<b>WELD COUNTY (KERR MCGEE)</b>	Wellbore	<b>SWEETGRASS 9-14 awb</b>
Facility	<b>SEC.14-T1N-R68W</b>		

## REPORT SETUP INFORMATION

Projection System	<b>NAD83 / Lambert Colorado SP, Northern Zone (501), US feet</b>	Software System	<b>WellArchitect@ 3.0.0</b>
North Reference	<b>True</b>	User	<b>Cookdanm</b>
Scale	<b>0.999963</b>	Report Generated	<b>7/20/2011 at 1:48:57 PM</b>
Convergence at slot	<b>0.35° East</b>	Database/Source file	<b>WA_DENVER/SWEETGRASS_9-14_awb.xml</b>

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	3150004.14	1261260.61	<b>40°02'57.498"N</b>	<b>104°57'51.026"W</b>
Facility Reference Pt			3150004.14	1261260.61	<b>40°02'57.498"N</b>	<b>104°57'51.026"W</b>
Field Reference Pt			<b>3197771.84</b>	<b>1268891.29</b>	40°04'09.600"N	104°47'36.000"W

## WELLPATH DATUM

Calculation method	<b>Minimum curvature</b>	XTREME 12 (RKB) to Facility Vertical Datum	<b>5151.00ft</b>
Horizontal Reference Pt	<b>Slot</b>	XTREME 12 (RKB) to Mean Sea Level	<b>5151.00ft</b>
Vertical Reference Pt	<b>XTREME 12 (RKB)</b>	XTREME 12 (RKB) to Mud Line at Slot (SLOT#01 SWEETGRASS 9-14 (1864'FSL & 832'FEL))	<b>5151.00ft</b>
MD Reference Pt	<b>XTREME 12 (RKB)</b>	Section Origin	<b>N 0.00, E 0.00 ft</b>
Field Vertical Reference	<b>Mean Sea Level</b>	Section Azimuth	<b>52.79°</b>



# Actual Wellpath Report

SWEETGRASS 9-14 awp

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SWEETGRASS 9-14 (1864'FSL & 832'FEL)
Area	COLORADO	Well	SWEETGRASS 9-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 9-14 awb
Facility	SEC.14-T1N-R68W		

## WELLPATH DATA (87 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	93.700	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	93.700	15.00	0.00	0.00	0.00	0.00	
149.00	1.000	93.700	148.99	0.88	-0.08	1.17	0.75	
242.00	0.900	93.000	241.98	2.05	-0.17	2.71	0.11	
334.00	1.000	83.200	333.97	3.30	-0.11	4.22	0.21	
426.00	1.000	81.000	425.95	4.70	0.11	5.81	0.04	
517.00	1.200	83.900	516.94	6.21	0.34	7.55	0.23	
608.00	0.700	72.600	607.92	7.55	0.60	9.02	0.58	
699.00	0.400	41.700	698.92	8.39	1.01	9.77	0.45	
789.00	0.500	1.600	788.92	8.94	1.64	9.99	0.36	
880.00	0.300	336.600	879.92	9.25	2.25	9.90	0.29	
971.00	0.300	348.600	970.91	9.41	2.70	9.76	0.07	
1061.00	0.300	343.300	1060.91	9.59	3.16	9.65	0.03	
1148.00	0.200	340.500	1147.91	9.72	3.52	9.53	0.12	
1220.00	0.400	356.700	1219.91	9.90	3.89	9.47	0.30	
1311.00	0.600	7.200	1310.91	10.41	4.68	9.52	0.24	
1402.00	0.800	354.900	1401.90	11.08	5.79	9.52	0.27	
1492.00	0.700	349.300	1491.89	11.66	6.95	9.36	0.14	
1583.00	1.500	230.800	1582.88	10.72	6.75	8.33	2.13	
1674.00	1.400	226.600	1673.85	8.42	5.23	6.60	0.16	
1765.00	1.300	231.200	1764.83	6.28	3.82	4.99	0.16	
1856.00	1.400	232.600	1855.80	4.14	2.50	3.30	0.12	
1947.00	1.300	240.700	1946.78	2.01	1.32	1.52	0.24	
2037.00	1.200	252.300	2036.76	0.11	0.53	-0.27	0.30	
2128.00	1.100	268.800	2127.74	-1.50	0.22	-2.05	0.38	
2219.00	1.100	281.100	2218.72	-2.78	0.37	-3.78	0.26	
2310.00	1.300	290.600	2309.70	-3.92	0.90	-5.60	0.31	
2400.00	1.300	289.900	2399.68	-5.01	1.61	-7.52	0.02	
2491.00	1.300	286.000	2490.66	-6.19	2.25	-9.48	0.10	
2582.00	1.400	287.400	2581.63	-7.45	2.86	-11.53	0.12	
2673.00	0.500	344.400	2672.62	-7.95	3.58	-12.70	1.32	
2763.00	1.500	71.200	2762.61	-6.69	4.33	-11.69	1.73	
2854.00	1.100	73.000	2853.58	-4.74	4.97	-9.73	0.44	
2945.00	0.700	62.800	2944.57	-3.37	5.48	-8.40	0.47	
3036.00	0.500	66.600	3035.57	-2.44	5.90	-7.54	0.22	
3126.00	0.300	36.700	3125.56	-1.83	6.24	-7.04	0.31	
3217.00	2.100	138.700	3216.54	-1.48	5.18	-5.80	2.40	
3308.00	1.800	141.200	3307.49	-1.33	2.81	-3.80	0.34	
3399.00	1.400	142.200	3398.46	-1.27	0.82	-2.22	0.44	
3490.00	1.100	147.100	3489.43	-1.33	-0.79	-1.07	0.35	
3580.00	0.800	148.500	3579.42	-1.46	-2.05	-0.27	0.33	
3671.00	0.800	148.500	3670.41	-1.58	-3.14	0.39	0.00	
3762.00	0.500	124.300	3761.41	-1.52	-3.90	1.05	0.44	
3853.00	0.600	120.800	3852.40	-1.22	-4.37	1.79	0.12	
3943.00	0.600	120.400	3942.40	-0.86	-4.85	2.60	0.00	
4034.00	1.000	128.800	4033.39	-0.49	-5.59	3.63	0.46	
4125.00	1.300	282.100	4124.38	-0.97	-5.87	3.24	2.46	
4216.00	1.000	260.300	4215.36	-2.35	-5.79	1.45	0.58	
4306.00	0.600	273.700	4305.35	-3.40	-5.89	0.20	0.49	
4397.00	0.500	264.400	4396.35	-4.10	-5.90	-0.67	0.15	
4488.00	0.700	238.500	4487.35	-4.99	-6.23	-1.53	0.36	
4579.00	1.800	322.600	4578.33	-5.55	-5.38	-2.88	2.05	
4669.00	1.800	349.300	4668.29	-4.92	-2.87	-4.00	0.92	
4760.00	1.900	36.400	4759.24	-2.83	-0.25	-3.37	1.63	
4851.00	3.600	42.700	4850.13	1.43	3.06	-0.54	1.89	
4942.00	6.400	64.500	4940.79	9.21	7.35	5.98	3.67	
5032.00	8.900	60.600	5029.98	21.02	12.93	16.58	2.84	
5123.00	11.500	60.600	5119.53	36.98	20.84	30.61	2.86	

5214.00	12.300	53.300	5208.58	55.66	31.08	46.29	1.87	
5305.00	14.300	54.300	5297.14	76.59	43.44	63.19	2.21	



# Actual Wellpath Report

SWEETGRASS 9-14 awp

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SWEETGRASS 9-14 (1864'FSL & 832'FEL)
Area	COLORADO	Well	SWEETGRASS 9-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 9-14 awb
Facility	SEC.14-T1N-R68W		

## WELLPATH DATA (87 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5395.00	16.000	50.500	5384.01	100.10	57.81	81.79	2.19	
5486.00	14.600	50.800	5471.78	124.10	73.04	100.36	1.54	
5577.00	16.000	54.000	5559.55	148.10	87.66	119.39	1.80	
5668.00	15.900	53.600	5647.05	173.10	102.43	139.57	0.16	
5759.00	15.800	51.200	5734.59	197.95	117.59	159.26	0.73	
5849.00	16.600	51.900	5821.02	223.05	133.20	178.92	0.91	
5940.00	14.900	49.400	5908.60	247.73	148.84	198.04	2.01	
6031.00	14.300	56.400	5996.67	270.63	162.67	216.28	2.05	
6122.00	16.100	54.700	6084.48	294.46	176.18	235.94	2.04	
6213.00	14.700	52.900	6172.21	318.61	190.44	255.45	1.63	
6303.00	12.200	51.500	6259.74	339.54	203.25	272.01	2.80	
6394.00	10.600	57.100	6348.94	357.50	213.78	286.56	2.14	
6485.00	8.800	56.100	6438.64	372.80	222.21	299.37	1.99	
6576.00	6.900	46.900	6528.78	385.19	229.83	309.14	2.50	
6666.00	5.300	44.100	6618.27	394.68	236.51	315.98	1.81	
6757.00	3.700	45.200	6708.99	401.74	241.60	320.98	1.76	
6848.00	2.900	46.900	6799.84	406.94	245.24	324.75	0.89	
6939.00	1.000	68.700	6890.78	410.00	247.10	327.17	2.20	
7075.00	1.000	68.700	7026.76	412.28	247.96	329.38	0.00	
7211.00	0.400	0.200	7162.75	413.71	248.87	330.49	0.68	
7347.00	0.900	305.700	7298.74	413.68	249.97	329.62	0.55	
7484.00	1.700	287.100	7435.71	412.18	251.19	326.81	0.65	
7620.00	1.900	276.900	7571.64	409.39	252.06	322.64	0.28	
7757.00	0.300	298.300	7708.61	407.61	252.50	320.07	1.19	
7893.00	1.100	60.300	7844.60	408.75	253.31	320.89	0.94	
8039.00	1.700	91.600	7990.56	411.83	253.95	324.27	0.65	LAST BHI MWD SURVEY
8089.00	1.700	91.600	8040.54	412.99	253.91	325.75	0.00	PROJECTION TO BIT

## HOLE & CASING SECTIONS - Ref Wellbore: SWEETGRASS 9-14 awb Ref Wellpath: SWEETGRASS 9-14 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	1203.00	1188.00	15.00	1202.91	0.00	0.00	3.78	9.48
8.625in Casing Surface	15.00	1190.00	1175.00	15.00	1189.91	0.00	0.00	3.70	9.49
7.875in Open Hole	1203.00	8089.00	6886.00	1202.91	8040.54	3.78	9.48	253.91	325.75

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SWEETGRASS 9-14 BHL ON PLAT (2130'FSL & 510'FEL, REV-1)		6000.00	272.81	321.13	3150323.60	1261535.35	40°03'00.194"N	104°57'46.897"W	point
SWEETGRASS 9-14 GEO TARGET 50' RADIUS (2101'FSL & 510'FEL, REV-2)		6000.00	243.86	321.11	3150323.75	1261506.39	40°02'59.908"N	104°57'46.897"W	circle
SWEETGRASS 9-14 LEGAL BOX (50'N,350'S,50'E,350'W OF GEO TARGET)		6000.00	93.19	171.11	3150174.67	1261354.83	40°02'58.419"N	104°57'48.826"W	square

## WELLPATH COMPOSITION - Ref Wellbore: SWEETGRASS 9-14 awb Ref Wellpath: SWEETGRASS 9-14 awp

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8039.00	NaviTrak (Standard)	BHI MWD SURVEYS <149-8039>	SWEETGRASS 9-14 awb
8039.00	8089.00	Blind Drilling (std)	Projection to bit	SWEETGRASS 9-14 awb



# Actual Wellpath Report

SWEETGRASS 9-14 awp

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SWEETGRASS 9-14 (1864'FSL & 832'FEL)
Area	COLORADO	Well	SWEETGRASS 9-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 9-14 awb
Facility	SEC.14-T1N-R68W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8039.00	1.700	91.600	7990.56	LAST BHI MWD SURVEY
8089.00	1.700	91.600	8040.54	PROJECTION TO BIT