



Actual Wellpath Report

SWEETGRASS 24-14 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#02 SWEETGRASS 24-14 (1858'FSL & 840'FEL)
Area	COLORADO	Well	SWEETGRASS 24-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 24-14 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 9:38:57 AM
Convergence at slot	0.35° East	Database/Source file	WA_DENVER/SWEETGRASS_24-14_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-6.19	-7.84	3149996.34	1261254.37	40°02'57.437"N	104°57'51.127"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#02 SWEETGRASS 24-14 (1858'FSL & 840'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	325.39°



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WELLPATH DATA (79 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	82.500	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	82.500	15.00	0.00	0.00	0.00	0.00	
148.00	1.200	82.500	147.99	-0.63	0.18	1.38	0.90	
241.00	1.000	26.200	240.98	-0.68	1.04	2.70	1.13	
333.00	1.600	333.800	332.95	0.98	2.91	2.49	1.38	
425.00	3.100	331.000	424.87	4.73	6.24	0.72	1.63	
516.00	4.300	328.200	515.68	10.58	11.29	-2.27	1.33	
607.00	5.600	326.800	606.34	18.43	17.90	-6.50	1.43	
698.00	7.000	327.800	696.79	28.41	26.31	-11.89	1.54	
789.00	7.400	329.200	787.07	39.80	36.04	-17.84	0.48	
879.00	7.700	330.600	876.29	51.58	46.27	-23.77	0.39	
969.00	7.800	329.900	965.47	63.68	56.81	-29.79	0.15	
1059.00	7.900	327.800	1054.63	75.94	67.32	-36.15	0.34	
1144.00	8.000	323.600	1138.81	87.69	77.03	-42.77	0.69	
1216.00	7.100	325.700	1210.19	97.15	84.74	-48.26	1.31	
1307.00	8.000	324.000	1300.40	109.10	94.51	-55.15	1.02	
1398.00	9.800	320.800	1390.30	123.16	105.63	-63.76	2.05	
1489.00	11.600	327.500	1479.71	140.02	119.35	-73.58	2.40	
1580.00	14.400	329.200	1568.37	160.46	136.79	-84.29	3.11	
1670.00	16.500	328.900	1655.12	184.38	157.35	-96.62	2.34	
1761.00	16.900	326.100	1742.28	210.51	179.39	-110.67	0.99	
1852.00	17.000	323.600	1829.33	237.03	201.08	-125.95	0.81	
1943.00	16.900	321.900	1916.38	263.53	222.20	-142.00	0.56	
2033.00	16.000	319.400	2002.69	288.92	241.91	-158.15	1.27	
2124.00	16.800	317.300	2089.99	314.42	261.10	-175.23	1.09	
2215.00	16.200	313.800	2177.24	339.87	279.55	-193.31	1.28	
2306.00	16.600	312.100	2264.54	364.96	297.05	-212.11	0.69	
2397.00	16.200	311.700	2351.84	389.94	314.21	-231.24	0.46	
2487.00	15.500	317.600	2438.42	414.06	331.44	-248.72	1.95	
2578.00	16.800	320.800	2525.83	439.22	350.61	-265.23	1.73	
2669.00	16.700	324.000	2612.97	465.40	371.38	-281.23	1.02	
2760.00	15.900	326.400	2700.31	490.93	392.34	-295.81	1.15	
2850.00	16.100	329.900	2786.83	515.70	413.41	-308.90	1.09	
2941.00	15.900	327.200	2874.31	540.74	434.80	-321.98	0.85	
3032.00	17.200	328.200	2961.53	566.64	456.72	-335.82	1.46	
3123.00	17.000	332.100	3048.51	593.29	479.91	-349.13	1.28	
3214.00	16.400	331.300	3135.68	619.28	502.93	-361.53	0.71	
3304.00	16.600	330.600	3221.97	644.72	525.28	-373.94	0.31	
3395.00	16.600	333.400	3309.18	670.54	548.23	-386.14	0.88	
3486.00	17.100	329.600	3396.27	696.75	571.39	-398.73	1.33	
3577.00	15.700	323.900	3483.58	722.41	592.88	-412.76	2.34	
3668.00	14.400	320.500	3571.45	745.99	611.56	-427.21	1.73	
3759.00	13.500	324.300	3659.77	767.88	628.92	-440.61	1.41	
3849.00	11.300	322.900	3747.67	787.20	644.48	-452.06	2.47	
3940.00	9.300	326.400	3837.20	803.46	657.72	-461.51	2.30	
4031.00	7.600	325.000	3927.21	816.83	668.78	-469.03	1.88	
4122.00	6.200	322.200	4017.54	827.75	677.59	-475.49	1.58	
4212.00	5.100	327.800	4107.11	836.60	684.81	-480.60	1.37	
4303.00	3.900	347.200	4197.83	843.52	691.26	-483.44	2.11	
4394.00	1.900	348.200	4288.71	847.78	695.75	-484.44	2.20	
4485.00	0.200	4.100	4379.69	849.30	697.39	-484.74	1.88	
4621.00	0.300	46.200	4515.69	849.54	697.87	-484.46	0.15	
4757.00	0.600	37.500	4651.68	849.82	698.68	-483.77	0.23	
4893.00	1.100	54.300	4787.67	850.06	700.01	-482.28	0.41	
5030.00	1.000	40.600	4924.65	850.39	701.68	-480.43	0.20	
5166.00	0.500	27.900	5060.63	850.97	703.11	-479.38	0.39	
5302.00	0.500	93.800	5196.63	850.87	703.59	-478.51	0.40	
5438.00	0.400	122.200	5332.63	850.07	703.30	-477.52	0.18	
5574.00	0.400	161.500	5468.62	849.17	702.60	-476.97	0.20	

5711.00	0.400	165.800	5605.62	848.27	701.68	-476.70	0.02
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Area	COLORADO	Well	SWEETGRASS 24-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 24-14 AWB
Facility	SEC.14-T1N-R68W		

WELLPATH DATA (79 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5847.00	0.600	178.100	5741.61	847.22	700.51	-476.56	0.17	
5983.00	0.600	198.100	5877.61	846.19	699.12	-476.75	0.15	
6119.00	0.500	203.700	6013.60	845.45	697.90	-477.21	0.08	
6255.00	0.400	192.800	6149.60	844.82	696.89	-477.56	0.10	
6392.00	0.500	168.900	6286.59	843.94	695.84	-477.55	0.15	
6528.00	0.900	190.000	6422.58	842.64	694.21	-477.62	0.35	
6664.00	1.600	185.800	6558.55	840.43	691.26	-478.00	0.52	
6800.00	1.700	176.400	6694.49	837.26	687.36	-478.06	0.21	
6936.00	1.700	174.200	6830.43	833.76	683.34	-477.73	0.05	
7073.00	1.600	172.100	6967.38	830.27	679.43	-477.26	0.09	
7208.00	1.300	168.200	7102.33	827.18	676.06	-476.69	0.23	
7345.00	1.100	159.800	7239.30	824.47	673.30	-475.92	0.19	
7481.00	1.300	157.000	7375.27	821.70	670.66	-474.87	0.15	
7617.00	1.500	153.800	7511.23	818.42	667.64	-473.48	0.16	
7753.00	1.400	155.900	7647.19	815.03	664.53	-472.01	0.08	
7889.00	1.700	135.500	7783.14	811.41	661.57	-469.92	0.46	
8026.00	1.900	151.700	7920.07	807.15	658.12	-467.42	0.40	
8516.00	0.900	129.200	8409.92	795.38	648.54	-460.59	0.23	LAST BHI MWD SURVEY
8566.00	0.900	129.200	8459.92	794.62	648.04	-459.98	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: SWEETGRASS 24-14 AWB Ref Wellpath: SWEETGRASS 24-14 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	1199.00	1184.00	15.00	1193.32	0.00	0.00	82.98	-47.05
8.625in Casing Surface	15.00	1188.00	1173.00	15.00	1182.41	0.00	0.00	81.82	-46.23
7.875in Open Hole	1199.00	8566.00	7367.00	1193.32	8459.92	82.98	-47.05	648.04	-459.98

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SWEETGRASS 24-14 GEO TARGET 50' RADIUS (2560'FSL & 1315'FEL, REV-1)		6000.00	692.88	-478.16	3149514.01	1261944.32	40°03'04.284"N	104°57'57.276"W	circle
SWEETGRASS 24-14 HARDLINE 50'N OF GEO TARGET		6000.00	742.88	-478.16	3149513.71	1261994.31	40°03'04.778"N	104°57'57.276"W	point

WELLPATH COMPOSITION - Ref Wellbore: SWEETGRASS 24-14 AWB Ref Wellpath: SWEETGRASS 24-14 AWP					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore
15.00	8516.00	NaviTrak (Standard)	BHI MWD SURVEYS <148-8516>		SWEETGRASS 24-14 AWB
8516.00	8566.00	Blind Drilling (std)	Projection to bit		SWEETGRASS 24-14 AWB



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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#02 SWEETGRASS 24-14 (1858'FSL & 840'FEL)
Area	COLORADO	Well	SWEETGRASS 24-14
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SWEETGRASS 24-14 AWB
Facility	SEC.14-T1N-R68W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8516.00	0.900	129.200	8409.92	LAST BHI MWD SURVEY
8566.00	0.900	129.200	8459.92	PROJECTION TO BIT