





Actual Wellpath Report

LEE 21-6 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 LEE 21-6 (646'FNL & 1986'FEL)
Area	COLORADO	Well	LEE 21-6
Field	WELD COUNTY (KERR MCGEE)	Wellbore	LEE 21-6 AWB
Facility	SEC.06-T2N-R65W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.1
North Reference	True	User	Cookdanm
Scale	0.999958	Report Generated	8/12/2011 at 2:43:08 PM
Convergence at slot	0.51° East	Database/Source file	WA_Denver/LEE_21-6_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.02	-48.04	3222435.56	1306833.54	40°10'22.487"N	104°42'14.378"W
Facility Reference Pt			3222483.59	1306833.95	40°10'22.487"N	104°42'13.759"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 15 (RKB) to Facility Vertical Datum	4977.00ft
Horizontal Reference Pt	Slot	XTREME 15 (RKB) to Mean Sea Level	4977.00ft
Vertical Reference Pt	XTREME 15 (RKB)	XTREME 15 (RKB) to Mud Line at Slot (SLOT#04 LEE 21-6 (646'FNL & 1986'FEL))	4977.00ft
MD Reference Pt	XTREME 15 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	221.34°



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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	261.200	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	261.200	15.00	0.00	0.00	0.00	0.00	
151.00	0.400	261.200	151.00	0.36	-0.07	-0.47	0.29	
244.00	0.500	249.200	244.00	0.97	-0.27	-1.17	0.15	
337.00	2.500	227.800	336.96	3.35	-1.77	-3.05	2.20	
426.00	4.300	219.000	425.80	8.61	-5.67	-6.59	2.10	
517.00	6.200	222.900	516.41	16.93	-11.92	-12.08	2.12	
605.00	8.200	221.100	603.72	27.96	-20.13	-19.44	2.29	
695.00	9.500	227.800	692.65	41.76	-29.96	-29.16	1.84	
791.00	10.300	224.600	787.22	58.20	-41.39	-41.06	1.01	
881.00	10.200	227.100	875.78	74.16	-52.55	-52.55	0.51	
972.00	12.000	230.900	965.07	91.51	-64.00	-65.79	2.13	
1061.00	13.900	226.400	1051.81	111.28	-77.21	-80.72	2.42	
1151.00	15.600	220.400	1138.85	134.15	-93.88	-96.39	2.54	
1240.00	16.600	220.800	1224.35	158.83	-112.62	-112.45	1.13	
1329.00	17.300	220.400	1309.49	184.78	-132.32	-129.34	0.80	
1419.00	17.100	221.500	1395.46	211.39	-152.42	-146.78	0.42	
1509.00	17.300	221.800	1481.44	238.00	-172.31	-164.46	0.24	
1599.00	17.300	219.000	1567.37	264.75	-192.68	-181.81	0.93	
1687.00	17.100	221.800	1651.43	290.76	-212.49	-198.66	0.97	
1776.00	16.700	217.900	1736.59	316.61	-232.34	-215.24	1.35	
1865.00	16.800	215.100	1821.82	342.16	-252.95	-230.49	0.91	
1954.00	16.300	212.300	1907.13	367.29	-274.03	-244.56	1.06	
2045.00	17.800	214.800	1994.13	393.72	-296.25	-259.33	1.83	
2135.00	17.600	217.600	2079.87	420.96	-318.33	-275.48	0.97	
2224.00	17.100	215.800	2164.82	447.41	-339.60	-291.34	0.82	
2314.00	17.700	213.700	2250.70	474.14	-361.72	-306.67	0.96	
2403.00	16.200	215.500	2335.84	499.91	-383.08	-321.39	1.79	
2492.00	15.800	217.900	2421.39	524.35	-402.75	-336.04	0.87	
2582.00	14.800	222.500	2508.20	548.08	-420.89	-351.34	1.75	
2671.00	15.400	222.900	2594.13	571.25	-437.93	-367.06	0.68	
2761.00	15.600	226.000	2680.86	595.26	-455.09	-383.90	0.95	
2849.00	16.000	230.900	2765.54	619.02	-470.96	-401.83	1.58	
2939.00	17.200	230.900	2851.78	644.37	-487.18	-421.78	1.33	
3028.00	17.300	228.100	2936.78	670.49	-504.31	-441.84	0.94	
3118.00	16.800	221.500	3022.83	696.79	-522.99	-460.42	2.22	
3206.00	17.700	216.200	3106.88	722.83	-543.32	-476.75	2.06	
3295.00	16.200	216.200	3192.01	748.67	-564.25	-492.07	1.69	
3384.00	14.300	217.600	3277.87	772.01	-582.98	-506.11	2.17	
3472.00	12.700	222.500	3363.44	792.52	-598.73	-519.28	2.23	
3562.00	11.700	224.300	3451.41	811.53	-612.55	-532.34	1.19	
3652.00	9.900	215.100	3539.82	828.34	-625.41	-543.16	2.76	
3741.00	9.100	225.300	3627.60	842.96	-636.63	-552.57	2.09	
3831.00	7.900	233.400	3716.62	856.11	-645.32	-562.59	1.88	
3920.00	6.500	233.100	3804.91	867.03	-651.99	-571.53	1.57	



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	LEE 21-6 AWB
Facility	SEC.06-T2N-R65W		

WELLPATH DATA (79 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4010.00	5.400	231.000	3894.43	876.19	-657.72	-578.90	1.25	
4098.00	4.700	232.200	3982.08	883.81	-662.53	-584.96	0.80	
4185.00	3.800	214.800	4068.85	890.18	-667.08	-589.42	1.80	
4274.00	3.400	225.300	4157.67	895.74	-671.36	-592.98	0.86	
4363.00	2.600	216.900	4246.55	900.39	-674.83	-596.07	1.02	
4453.00	3.600	221.800	4336.42	905.25	-678.57	-599.18	1.15	
4542.00	1.100	196.800	4425.34	908.82	-681.47	-601.29	2.97	
4678.00	1.000	213.400	4561.31	911.18	-683.71	-602.32	0.23	
4811.00	1.100	226.000	4694.29	913.60	-685.57	-603.88	0.19	
4944.00	1.600	220.400	4827.26	916.73	-687.87	-606.00	0.39	
5078.00	1.100	169.100	4961.22	919.39	-690.56	-606.97	0.93	
5213.00	0.900	10.200	5096.21	919.28	-690.79	-606.54	1.46	
5346.00	0.900	42.500	5229.20	917.34	-688.99	-605.65	0.38	
5478.00	0.900	40.400	5361.18	915.27	-687.43	-604.27	0.02	
5612.00	0.800	48.800	5495.17	913.29	-686.02	-602.89	0.12	
5744.00	0.700	71.000	5627.16	911.67	-685.15	-601.43	0.23	
5876.00	0.400	70.300	5759.15	910.57	-684.73	-600.24	0.23	
6011.00	0.400	49.900	5894.15	909.69	-684.27	-599.43	0.10	
6144.00	0.200	100.900	6027.15	909.11	-684.01	-598.85	0.24	
6279.00	0.200	109.000	6162.15	908.90	-684.13	-598.39	0.02	
6412.00	0.200	254.900	6295.14	909.01	-684.27	-598.40	0.29	
6543.00	0.400	185.200	6426.14	909.57	-684.78	-598.66	0.29	
6676.00	0.900	299.500	6559.14	910.16	-684.73	-599.61	0.85	
6812.00	2.300	317.800	6695.08	910.07	-682.18	-602.37	1.08	
6944.00	2.100	306.500	6826.99	909.98	-678.78	-606.10	0.36	
7078.00	1.800	266.100	6960.91	911.68	-677.47	-610.17	1.03	
7209.00	1.200	26.700	7091.89	911.81	-676.38	-611.61	2.00	
7343.00	1.100	32.700	7225.86	909.18	-674.04	-610.28	0.12	
7478.00	0.800	24.600	7360.84	907.00	-672.10	-609.19	0.24	
7609.00	0.400	4.500	7491.84	905.76	-670.81	-608.77	0.34	
7745.00	0.200	359.600	7627.84	905.20	-670.10	-608.74	0.15	
7879.00	0.100	277.700	7761.83	905.09	-669.85	-608.86	0.16	
7995.00	0.900	168.400	7877.83	905.70	-670.73	-608.77	0.81	LAST BHI MWD SURVEY
8045.00	0.900	168.400	7927.82	906.17	-671.50	-608.61	0.00	PROJECTION TO BIT



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Facility	SEC.06-T2N-R65W		

HOLE & CASING SECTIONS - Ref Wellbore: LEE 21-6 AWB Ref Wellpath: LEE 21-6 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	846.00	831.00	15.00	841.33	0.00	0.00	-48.28	-48.04
8.625in Casing Surface	15.00	836.00	821.00	15.00	831.49	0.00	0.00	-47.04	-46.76
7.875in Open Hole	846.00	8045.00	7199.00	841.33	7927.82	-48.28	-48.04	-671.50	-608.61

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
LEE 21-6 GEO TARGET 50' RADIUS (1320'FNL & 2570'FEL, REV-1)		6000.00	-672.83	-591.92	3221849.73	1306155.45	40°10'15.838"N	104°42'22.003"W	circle
LEE 21-6 HARDLINE 83'W OF GEO TARGET		6000.00	-672.87	-674.93	3221766.72	1306154.66	40°10'15.838"N	104°42'23.072"W	point

WELLPATH COMPOSITION - Ref Wellbore: LEE 21-6 AWB Ref Wellpath: LEE 21-6 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	7995.00	NaviTrak (Standard)	BHI MWD SURVEYS <151-7995>	LEE 21-6 AWB
7995.00	8045.00	Blind Drilling (std)	Projection to bit	LEE 21-6 AWB



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Area	COLORADO	Well	LEE 21-6
Field	WELD COUNTY (KERR MCGEE)	Wellbore	LEE 21-6 AWB
Facility	SEC.06-T2N-R65W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7995.00	0.900	168.400	7877.83	LAST BHI MWD SURVEY
8045.00	0.900	168.400	7927.82	PROJECTION TO BIT