





Actual Wellpath Report

FEHRN 7-32 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#19 FEHRN 7-32 (1655'FNL & 1151'FEL)
Area	COLORADO	Well	FEHRN 7-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 7-32 AWB
Facility	SEC.32-T2N-R66W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.0
North Reference	True	User	Doddanna
Scale	0.99996	Report Generated	9/8/2011 at 12:20:55 PM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/FEHRN_7-32_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	1311.18	459.59	3197018.72	1279083.07	40°05'50.377"N	104°47'44.646"W
Facility Reference Pt			3196569.55	1277768.35	40°05'37.420"N	104°47'50.560"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 6 (RKB) to Facility Vertical Datum	4931.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RKB) to Mean Sea Level	4931.00ft
Vertical Reference Pt	XTREME 6 (RKB)	XTREME 6 (RKB) to Mud Line at Slot (SLOT#19 FEHRN 7-32 (1655'FNL & 1151'FEL))	4931.00ft
MD Reference Pt	XTREME 6 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	238.60°



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 7-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (94 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	201.100	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	201.100	16.00	0.00	0.00	0.00	0.00	
160.00	0.500	201.100	160.00	0.50	-0.59	-0.23	0.35	
251.00	2.800	205.300	250.95	2.67	-2.97	-1.32	2.53	
342.00	4.800	204.600	341.75	7.69	-8.44	-3.85	2.20	
431.00	6.000	202.900	430.35	14.55	-16.11	-7.21	1.36	
520.00	7.400	215.500	518.75	23.60	-25.06	-12.35	2.27	
610.00	8.500	221.500	607.88	35.29	-34.76	-20.13	1.53	
700.00	9.300	232.400	696.81	48.88	-44.18	-30.30	2.07	
787.00	10.300	241.200	782.54	63.64	-52.22	-42.68	2.07	
862.00	10.300	241.200	856.33	77.03	-58.68	-54.43	0.00	
983.00	11.900	239.400	975.06	100.32	-70.24	-74.65	1.35	
1071.00	12.900	240.900	1061.01	119.20	-79.64	-91.05	1.19	
1160.00	14.500	240.900	1147.48	140.27	-89.89	-109.46	1.80	
1249.00	15.000	240.900	1233.54	162.91	-100.91	-129.26	0.56	
1339.00	15.600	238.700	1320.35	186.65	-112.86	-149.78	0.93	
1426.00	17.100	236.600	1403.83	211.13	-125.98	-170.46	1.85	
1514.00	18.000	236.600	1487.74	237.65	-140.59	-192.61	1.02	
1603.00	18.600	237.700	1572.23	265.58	-155.74	-216.09	0.78	
1691.00	19.900	239.400	1655.31	294.59	-170.86	-240.84	1.61	
1781.00	19.900	242.500	1739.94	325.19	-185.73	-267.61	1.17	
1871.00	18.900	241.200	1824.83	355.03	-199.83	-293.97	1.21	
1961.00	17.600	239.800	1910.30	383.20	-213.70	-318.51	1.52	
2050.00	17.900	239.400	1995.07	410.33	-227.43	-341.91	0.36	
2140.00	17.900	238.400	2080.71	437.99	-241.72	-365.59	0.34	
2229.00	17.300	240.500	2165.54	464.89	-255.40	-388.76	0.98	
2319.00	17.600	241.200	2251.40	491.86	-268.54	-412.33	0.41	
2408.00	17.400	243.300	2336.28	518.56	-281.00	-436.01	0.74	
2495.00	16.900	237.000	2419.42	544.17	-293.74	-458.24	2.21	
2584.00	17.100	237.700	2504.53	570.19	-307.78	-480.15	0.32	
2673.00	16.500	237.000	2589.73	595.90	-321.65	-501.81	0.71	
2764.00	17.400	241.200	2676.78	622.42	-335.25	-524.57	1.67	
2852.00	17.900	241.200	2760.64	649.07	-348.10	-547.95	0.57	
2941.00	18.400	244.400	2845.21	676.71	-360.76	-572.61	1.25	
3029.00	19.600	239.400	2928.42	705.29	-374.27	-597.84	2.30	
3119.00	18.600	241.200	3013.47	734.72	-388.87	-623.41	1.29	
3208.00	17.800	238.000	3098.02	762.50	-402.92	-647.39	1.44	
3299.00	16.000	238.000	3185.08	788.95	-416.94	-669.82	1.98	
3389.00	14.200	242.600	3271.98	812.37	-428.59	-690.14	2.40	
3476.00	11.400	238.400	3356.81	831.62	-438.01	-706.94	3.39	
3565.00	8.800	234.500	3444.42	847.21	-446.57	-719.98	3.02	
3654.00	6.200	240.900	3532.65	858.80	-452.87	-729.72	3.06	
3744.00	4.400	246.100	3622.27	867.08	-456.63	-737.13	2.07	
3831.00	2.600	259.800	3709.10	872.23	-458.33	-742.12	2.27	
3920.00	0.500	238.000	3798.07	874.50	-458.89	-744.44	2.41	



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Area	COLORADO	Well	FEHRN 7-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 7-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (94 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4010.00	1.100	222.200	3888.06	875.72	-459.74	-745.35	0.70	
4099.00	1.100	181.400	3977.04	877.01	-461.23	-745.94	0.86	
4187.00	1.000	182.500	4065.03	877.89	-462.84	-746.00	0.12	
4278.00	0.800	182.100	4156.02	878.69	-464.27	-746.06	0.22	
4366.00	1.300	185.700	4244.00	879.63	-465.88	-746.18	0.57	
4455.00	1.100	178.600	4332.98	880.66	-467.73	-746.26	0.28	
4544.00	0.500	168.400	4421.97	881.22	-468.97	-746.16	0.69	
4633.00	0.700	166.000	4510.97	881.52	-469.88	-745.95	0.23	
4723.00	0.400	199.400	4600.96	881.92	-470.71	-745.92	0.47	
4812.00	0.500	188.800	4689.96	882.42	-471.38	-746.08	0.15	
4902.00	0.000	144.200	4779.96	882.67	-471.77	-746.14	0.56	
4991.00	0.100	319.300	4868.96	882.68	-471.71	-746.19	0.11	
5078.00	0.500	299.600	4955.96	882.88	-471.47	-746.57	0.47	
5169.00	0.400	295.000	5046.95	883.25	-471.14	-747.21	0.12	
5259.00	0.400	289.000	5136.95	883.62	-470.90	-747.79	0.05	
5348.00	0.200	18.300	5225.95	883.70	-470.65	-748.03	0.50	
5437.00	0.300	192.300	5314.95	883.74	-470.73	-748.03	0.56	
5525.00	0.700	205.700	5402.95	884.35	-471.44	-748.32	0.47	
5615.00	0.600	217.300	5492.94	885.25	-472.31	-748.84	0.18	
5705.00	1.000	197.300	5582.93	886.28	-473.44	-749.36	0.54	
5794.00	0.700	170.500	5671.92	887.07	-474.72	-749.50	0.55	
5884.00	0.600	170.500	5761.92	887.45	-475.72	-749.33	0.11	
5974.00	0.700	119.700	5851.91	887.36	-476.46	-748.78	0.63	
6062.00	0.400	164.900	5939.91	887.19	-477.02	-748.23	0.57	
6150.00	0.900	349.800	6027.91	887.02	-476.64	-748.27	1.48	
6241.00	0.700	333.700	6118.90	886.71	-475.44	-748.64	0.33	
6330.00	0.600	326.300	6207.89	886.68	-474.56	-749.14	0.15	
6419.00	0.600	317.800	6296.89	886.79	-473.83	-749.72	0.10	
6509.00	0.400	323.800	6386.88	886.91	-473.23	-750.22	0.23	
6598.00	0.500	316.400	6475.88	887.01	-472.69	-750.67	0.13	
6687.00	0.400	323.100	6564.88	887.12	-472.17	-751.12	0.13	
6775.00	0.400	341.500	6652.88	887.09	-471.63	-751.41	0.15	
6864.00	0.600	0.400	6741.87	886.77	-470.87	-751.50	0.29	
6954.00	0.500	1.400	6831.87	886.31	-470.00	-751.49	0.11	
7043.00	0.100	37.700	6920.87	886.03	-469.55	-751.43	0.48	
7133.00	0.100	233.100	7010.87	886.03	-469.54	-751.45	0.22	
7222.00	0.600	141.000	7099.87	886.05	-469.95	-751.21	0.69	
7312.00	1.000	145.900	7189.86	885.95	-470.96	-750.48	0.45	
7403.00	1.100	164.200	7280.84	886.15	-472.46	-749.79	0.38	
7491.00	1.100	175.500	7368.82	886.75	-474.12	-749.50	0.25	
7582.00	1.000	247.200	7459.81	887.94	-475.30	-750.16	1.35	
7670.00	1.100	265.100	7547.80	889.45	-475.67	-751.71	0.39	
7761.00	1.200	265.800	7638.78	891.08	-475.81	-753.53	0.11	
7851.00	0.800	271.400	7728.77	892.45	-475.86	-755.10	0.46	
7942.00	0.500	317.500	7819.76	893.06	-475.56	-756.00	0.64	



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Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#19 FEHRN 7-32 (1655'FNL & 1151'FEL)
Area	COLORADO	Well	FEHRN 7-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 7-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (94 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8029.00	0.400	13.400	7906.76	892.92	-474.98	-756.19	0.50	
8117.00	0.300	26.100	7994.76	892.50	-474.47	-756.02	0.14	
8174.00	0.400	12.700	8051.76	892.24	-474.15	-755.91	0.23	LAST BHI MWD SURVEY
8224.00	0.400	12.700	8101.75	892.00	-473.81	-755.83	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: FEHRN 7-32 AWB Ref Wellpath: FEHRN 7-32 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	16.00	917.00	901.00	16.00	910.38	0.00	0.00	-63.65	-63.31
8.625in Casing Surface	16.00	917.00	901.00	16.00	910.38	0.00	0.00	-63.65	-63.31
7.875in Open Hole	917.00	8224.00	7307.00	910.38	8101.75	-63.65	-63.31	-473.81	-755.83

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
FEHRN 7-32 GEO TARGET 50' RADIUS (2120'FNL & 1910'FEL, REV-1)		6000.00	-462.66	-757.87	3196264.58	1278614.43	40°05'45.805"N	104°47'54.398"W	circle
FEHRN 7-32 LEGAL BOX (61'S,339'N,121'E,279'W OF GEO TARGET)		6000.00	-323.64	-836.90	3196184.45	1278752.81	40°05'47.179"N	104°47'55.415"W	square

WELLPATH COMPOSITION - Ref Wellbore: FEHRN 7-32 AWB Ref Wellpath: FEHRN 7-32 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	862.00	NaviTrak (Standard)	BHI MWD NAVITRAK 12.25 <160-862>	FEHRN 7-32 AWB
862.00	8174.00	NaviTrak (Standard)	BHI MWD NAVITRAK 7.875 <983-8174>	FEHRN 7-32 AWB
8174.00	8224.00	Blind Drilling (std)	Projection to bit	FEHRN 7-32 AWB