





Actual Wellpath Report

FEHRN 25-32_AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#17 FEHRN 25-32 (1655'FNL & 1131'FEL)
Area	COLORADO	Well	FEHRN 25-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 25-32_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	9/7/2011 at 4:58:57 PM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/FEHRN_25-32_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	1311.54	479.46	3197038.58	1279083.60	40°05'50.381"N	104°47'44.390"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	4932.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RKB) to Mean Sea Level	4932.00ft
Vertical Reference Pt	XTREME 6 (RKB)	XTREME 6 (RKB) to Mud Line at Slot (SLOT#17 FEHRN 25-32 (1655'FNL & 1131'FEL))	4932.00ft
MD Reference Pt	XTREME 6 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	237.34°



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WELLPATH DATA (95 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	335.800	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	335.800	16.00	0.00	0.00	0.00	0.00	
164.00	0.400	335.800	164.00	-0.08	0.47	-0.21	0.27	
255.00	2.000	215.500	254.98	1.35	-0.53	-1.26	2.45	
346.00	4.600	202.200	345.82	5.81	-5.20	-3.57	2.96	
439.00	7.000	198.700	438.34	13.29	-14.03	-6.79	2.61	
529.00	7.500	201.800	527.62	22.35	-24.67	-10.73	0.71	
620.00	7.700	205.700	617.82	32.37	-35.68	-15.58	0.61	
706.00	7.900	206.800	703.03	42.37	-46.15	-20.74	0.29	
797.00	7.800	206.400	793.17	53.05	-57.26	-26.31	0.13	
863.00	7.700	207.500	858.57	60.73	-65.20	-30.34	0.27	
990.00	8.400	214.500	984.32	76.66	-80.39	-39.53	0.95	
1077.00	9.300	213.400	1070.29	88.94	-91.49	-46.99	1.05	
1167.00	11.100	224.300	1158.87	104.03	-103.77	-57.05	2.92	
1256.00	13.100	228.900	1245.89	122.35	-116.53	-70.64	2.49	
1346.00	14.500	233.500	1333.29	143.69	-129.94	-87.38	1.98	
1433.00	16.700	244.400	1417.10	166.97	-141.82	-107.42	4.20	
1521.00	19.200	244.400	1500.81	193.88	-153.54	-131.87	2.84	
1610.00	20.200	242.400	1584.60	223.71	-166.98	-158.69	1.35	
1699.00	22.000	242.600	1667.63	255.62	-181.77	-187.11	2.02	
1789.00	21.500	241.900	1751.22	288.84	-197.30	-216.62	0.63	
1879.00	20.900	239.800	1835.13	321.32	-213.14	-245.05	1.08	
1969.00	20.600	236.600	1919.30	353.20	-229.93	-272.14	1.30	
2057.00	20.800	237.700	2001.62	384.30	-246.81	-298.27	0.50	
2148.00	21.100	237.000	2086.60	416.84	-264.36	-325.67	0.43	
2237.00	21.000	237.700	2169.66	448.80	-281.61	-352.58	0.30	
2327.00	21.500	238.000	2253.54	481.42	-298.96	-380.20	0.57	
2417.00	20.600	238.000	2337.54	513.74	-316.09	-407.61	1.00	
2504.00	20.000	237.300	2419.13	543.93	-332.24	-433.11	0.74	
2594.00	20.700	240.500	2503.52	575.20	-348.39	-459.91	1.46	
2681.00	20.800	242.300	2584.87	605.94	-363.14	-486.97	0.74	
2769.00	20.400	240.500	2667.25	636.82	-377.96	-514.15	0.85	
2858.00	20.600	242.600	2750.61	667.90	-392.80	-541.55	0.86	
2948.00	20.600	241.200	2834.86	699.47	-407.72	-569.48	0.55	
3037.00	21.600	235.900	2917.90	731.47	-424.45	-596.77	2.42	
3124.00	22.500	233.500	2998.54	764.09	-443.33	-623.42	1.46	
3215.00	22.200	234.900	3082.70	798.64	-463.57	-651.48	0.67	
3305.00	21.400	237.000	3166.26	832.05	-482.29	-679.16	1.24	
3394.00	21.500	236.600	3249.10	864.59	-500.11	-706.39	0.20	
3483.00	20.600	238.000	3332.16	896.55	-517.39	-733.29	1.16	
3572.00	20.800	240.200	3415.42	927.99	-533.54	-760.28	0.90	
3661.00	21.400	242.600	3498.45	959.95	-548.86	-788.41	1.18	
3750.00	20.700	242.600	3581.51	991.78	-563.57	-816.79	0.79	
3839.00	21.500	243.000	3664.54	1023.67	-578.22	-845.29	0.91	
3927.00	21.000	244.400	3746.56	1055.37	-592.35	-873.87	0.81	



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Area	COLORADO	Well	FEHRN 25-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 25-32_AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (95 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4016.00	22.200	240.500	3829.31	1087.99	-607.52	-902.89	2.10	
4104.00	22.500	241.200	3910.70	1121.39	-623.82	-932.12	0.46	
4194.00	21.900	241.900	3994.03	1155.30	-640.02	-962.02	0.73	
4283.00	22.600	244.700	4076.40	1188.81	-655.15	-992.12	1.43	
4373.00	22.100	243.000	4159.64	1222.81	-670.23	-1022.84	0.91	
4462.00	23.300	242.260	4241.75	1257.00	-686.02	-1053.34	1.39	
4549.00	22.700	243.000	4321.83	1290.85	-701.65	-1083.52	0.77	
4640.00	21.400	242.300	4406.18	1324.87	-717.34	-1113.87	1.46	
4728.00	20.800	240.900	4488.28	1356.46	-732.40	-1141.74	0.89	
4817.00	21.600	241.000	4571.25	1388.58	-748.03	-1169.87	0.90	
4907.00	23.200	240.500	4654.46	1422.81	-764.79	-1199.79	1.79	
4996.00	22.400	238.000	4736.50	1457.27	-782.41	-1229.43	1.41	
5085.00	22.200	238.000	4818.85	1491.04	-800.31	-1258.07	0.22	
5174.00	22.200	236.300	4901.25	1524.67	-818.55	-1286.32	0.72	
5264.00	19.000	236.300	4985.49	1556.32	-836.11	-1312.66	3.56	
5353.00	16.900	234.900	5070.15	1583.74	-851.59	-1335.30	2.41	
5442.00	15.300	238.000	5155.66	1608.40	-865.25	-1355.84	2.04	
5532.00	13.500	238.700	5242.83	1630.78	-877.00	-1374.89	2.01	
5622.00	11.900	238.700	5330.62	1650.56	-887.28	-1391.80	1.78	
5712.00	10.100	236.300	5418.97	1667.73	-896.48	-1406.29	2.06	
5803.00	8.000	229.600	5508.83	1681.98	-905.02	-1417.75	2.58	
5891.00	6.000	227.100	5596.17	1692.58	-912.12	-1425.79	2.30	
5979.00	3.300	227.100	5683.87	1699.60	-916.97	-1431.01	3.07	
6068.00	0.800	236.200	5772.81	1702.74	-919.06	-1433.41	2.82	
6157.00	0.900	242.000	5861.80	1704.06	-919.74	-1434.54	0.15	
6246.00	0.900	269.300	5950.79	1705.35	-920.07	-1435.86	0.48	
6336.00	0.800	272.100	6040.78	1706.46	-920.06	-1437.19	0.12	
6423.00	1.100	269.700	6127.77	1707.67	-920.04	-1438.63	0.35	
6514.00	0.400	70.300	6218.76	1708.10	-919.94	-1439.21	1.63	
6604.00	0.300	260.500	6308.76	1708.01	-919.87	-1439.14	0.77	
6693.00	0.800	257.700	6397.76	1708.80	-920.04	-1439.98	0.56	
6780.00	1.100	259.100	6484.74	1710.15	-920.33	-1441.39	0.35	
6866.00	0.700	37.300	6570.74	1710.42	-920.07	-1441.89	1.96	
6955.00	0.800	41.500	6659.73	1709.31	-919.17	-1441.14	0.13	
7045.00	0.400	15.500	6749.73	1708.48	-918.40	-1440.64	0.53	
7134.00	0.500	319.600	6838.72	1708.30	-917.80	-1440.81	0.48	
7224.00	1.100	301.000	6928.72	1708.73	-917.06	-1441.81	0.72	
7315.00	1.600	286.200	7019.69	1709.96	-916.25	-1443.78	0.67	
7404.00	2.000	281.300	7108.65	1711.89	-915.60	-1446.49	0.48	
7494.00	2.800	278.500	7198.57	1714.68	-914.97	-1450.21	0.90	
7582.00	1.700	277.800	7286.50	1717.29	-914.47	-1453.63	1.25	
7671.00	1.100	274.300	7375.47	1718.98	-914.23	-1455.79	0.68	
7761.00	1.100	288.000	7465.45	1720.21	-913.90	-1457.47	0.29	
7852.00	2.500	273.200	7556.41	1722.38	-913.52	-1460.28	1.61	
7940.00	3.700	264.800	7644.28	1726.45	-913.67	-1465.03	1.45	



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Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#17 FEHRN 25-32 (1655'FNL & 1131'FEL)
Area	COLORADO	Well	FEHRN 25-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 25-32_AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (95 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8031.00	1.000	326.300	7735.20	1729.07	-913.27	-1468.39	3.67	
8120.00	1.000	297.100	7824.19	1729.48	-912.27	-1469.51	0.57	
8208.00	1.000	292.200	7912.18	1730.31	-911.63	-1470.91	0.10	
8322.00	1.300	284.400	8026.15	1731.76	-910.94	-1473.08	0.30	LAST BHI MWD SURVEY
8372.00	1.300	284.400	8076.14	1732.53	-910.65	-1474.18	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: FEHRN 25-32_AWB Ref Wellpath: FEHRN 25-32_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	909.00	893.00	16.00	904.14	0.00	0.00	-70.68	-33.36
8.625in Casing Surface	16.00	909.00	893.00	16.00	904.14	0.00	0.00	-70.68	-33.36
7.875in Open Hole	909.00	8372.00	7463.00	904.14	8076.14	-70.68	-33.36	-910.65	-1474.18

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
FEHRN 25-32 GEO TARGET 50' RADIUS (2580'FNL & 2570'FEL, REV-1)		6000.00	-920.89	-1436.62	3195609.38	1278151.36	40°05'41.280"N	104°48'02.876"W	circle
FEHRN 25-32 HARDLINE 61'S OF GEO TARGET		6000.00	-981.89	-1436.65	3195609.83	1278090.37	40°05'40.677"N	104°48'02.876"W	point
FEHRN 25-32 HARDLINE 82'W OF GEO TARGET		6000.00	-920.89	-1518.65	3195527.35	1278150.71	40°05'41.280"N	104°48'03.932"W	point

WELLPATH COMPOSITION - Ref Wellbore: FEHRN 25-32_AWB Ref Wellpath: FEHRN 25-32_AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	863.00	NaviTrak (Standard)	BHI MWD NAVITRAK 12.25 <164-863>	FEHRN 25-32_AWB
863.00	8322.00	NaviTrak (Standard)	BHI MWD NAVITRAK 7.875 <990-8322>	FEHRN 25-32_AWB
8322.00	8372.00	Blind Drilling (std)	Projection to bit	FEHRN 25-32_AWB