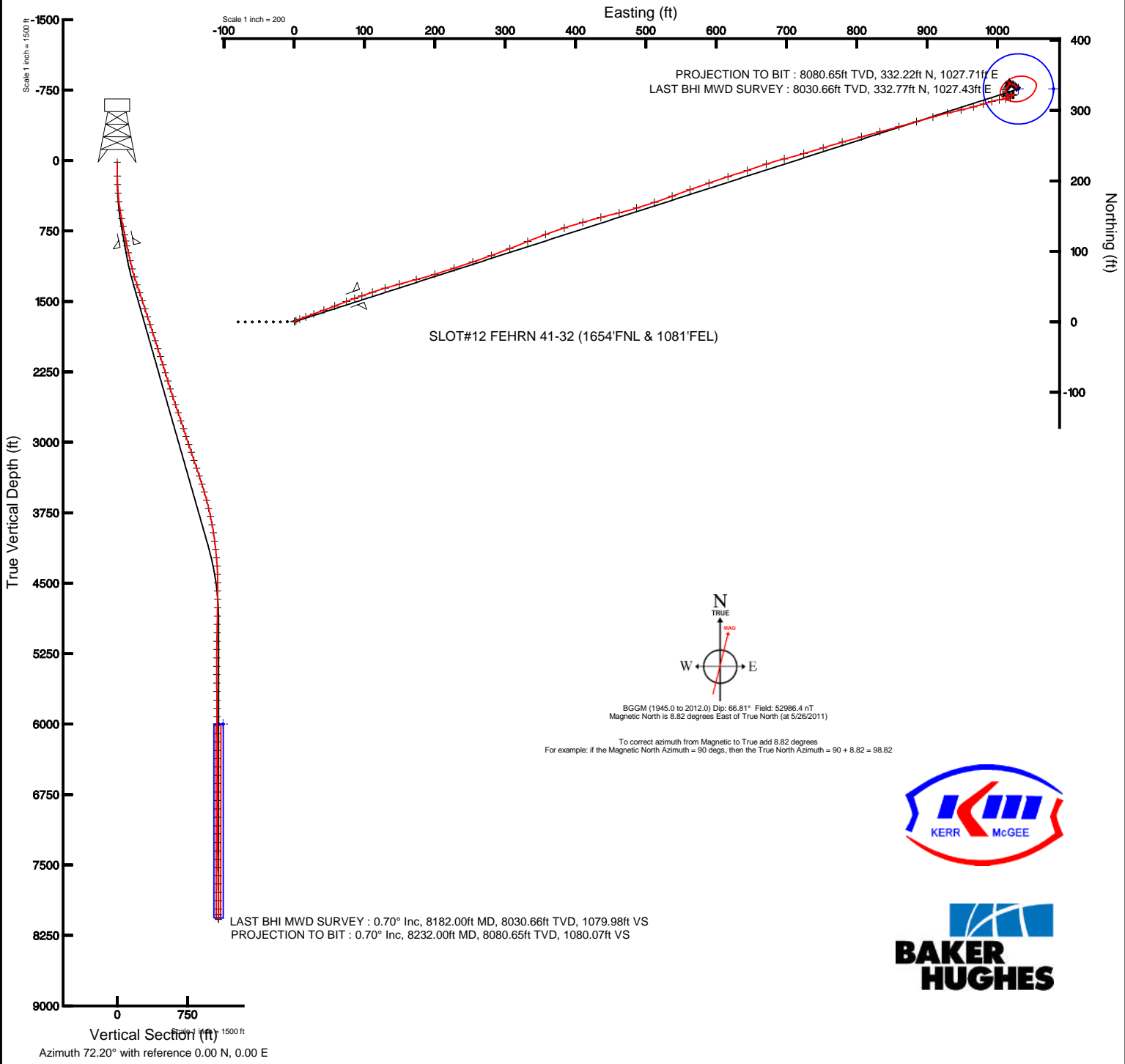


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#12 FEHRN 41-32 (1654'FNL & 1081'FEL)  
 Field: WELD COUNTY (KERR MCGEE) Well: FEHRN 41-32  
 Facility: SEC.32-T2N-R66W Wellbore: FEHRN 41-32 PWB

Plot reference wellpath is FEHRN 41-32 (REV-C.0) PWB	
True vertical depths are referenced to XTREME 6 (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to XTREME 6 (RKB)	North Reference: True north
XTREME 6 (RKB) to Mean Sea Level: 4933 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#12 FEHRN 41-32 (1654'FNL & 1081'FEL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: doddanna on 9/7/2011





## Actual Wellpath Report

FEHRN 41-32 AWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 FEHRN 41-32 (1654'FNL & 1081'FEL)
Area	COLORADO	Well	FEHRN 41-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 41-32 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 4:18:14 PM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/FEHRN_41-32_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	529.53	3197088.65	1279083.99	40°05'50.381"N	104°47'43.746"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	4933.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RKB) to Mean Sea Level	4933.00ft
Vertical Reference Pt	XTREME 6 (RKB)	XTREME 6 (RKB) to Mud Line at Slot (SLOT#12 FEHRN 41-32 (1654'FNL & 1081'FEL))	4933.00ft
MD Reference Pt	XTREME 6 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	72.20°



## Actual Wellpath Report

FEHRN 41-32 AWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 FEHRN 41-32 (1654'FNL & 1081'FEL)
Area	COLORADO	Well	FEHRN 41-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 41-32 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†	0.00	35.900	0.00	0.00	0.00	0.00	0.00	
16.00	0.00	35.900	16.00	0.00	0.00	0.00	0.00	
164.00	0.30	35.900	164.00	0.31	0.31	0.23	0.20	
255.00	2.50	63.700	254.97	2.47	1.39	2.15	2.46	
346.00	4.80	69.700	345.78	8.23	3.59	7.50	2.56	
439.00	6.80	69.700	438.30	17.62	6.85	16.31	2.15	
529.00	8.70	69.000	527.47	29.74	11.14	27.66	2.11	
620.00	10.60	70.000	617.18	44.98	16.47	41.96	2.10	
706.00	11.20	69.000	701.63	61.22	22.16	57.19	0.73	
797.00	11.50	68.600	790.85	79.10	28.64	73.88	0.34	
862.00	11.00	70.300	854.60	91.77	33.10	85.75	0.92	
991.00	12.90	71.400	980.80	118.47	41.84	110.99	1.48	
1077.00	12.70	73.200	1064.66	137.52	47.63	129.14	0.52	
1168.00	14.20	74.600	1153.16	158.67	53.49	149.48	1.69	
1257.00	18.10	75.300	1238.63	183.39	59.90	173.38	4.39	
1345.00	18.30	72.800	1322.23	210.86	67.45	199.80	0.92	
1436.00	18.40	72.100	1408.60	239.51	76.09	227.12	0.27	
1525.00	18.40	71.400	1493.05	267.60	84.89	253.80	0.25	
1614.00	18.20	70.000	1577.55	295.53	94.12	280.17	0.54	
1703.00	18.50	68.900	1662.03	323.52	103.96	306.41	0.51	
1791.00	17.80	67.900	1745.65	350.87	114.05	331.89	0.87	
1880.00	17.90	69.600	1830.37	378.10	123.93	357.32	0.60	
1971.00	18.30	72.100	1916.86	406.36	133.20	384.02	0.96	
2061.00	17.30	74.200	2002.56	433.86	141.18	410.34	1.32	
2150.00	17.40	75.300	2087.51	460.37	148.16	435.95	0.39	
2241.00	17.00	76.700	2174.44	487.22	154.68	462.06	0.63	
2329.00	17.00	72.500	2258.59	512.91	161.50	486.84	1.40	
2420.00	17.10	72.100	2345.59	539.59	169.62	512.26	0.17	
2510.00	17.50	69.600	2431.52	566.34	178.40	537.54	0.94	
2597.00	18.50	70.700	2514.27	593.21	187.52	562.83	1.21	
2687.00	18.50	70.300	2599.61	621.75	197.06	589.75	0.14	
2777.00	18.50	72.800	2684.97	650.30	206.09	616.83	0.88	
2867.00	19.10	71.800	2770.16	679.31	214.91	644.46	0.76	
2956.00	17.90	71.400	2854.56	707.54	223.82	671.25	1.36	
3043.00	18.10	75.600	2937.31	734.40	231.45	697.02	1.51	
3133.00	19.20	74.200	3022.58	763.15	238.96	724.80	1.32	
3222.00	18.30	72.800	3106.86	791.75	247.07	752.23	1.13	
3312.00	18.60	74.200	3192.23	820.22	255.16	779.54	0.59	
3401.00	18.60	74.600	3276.58	848.59	262.79	806.88	0.14	
3488.00	17.90	75.300	3359.21	875.80	269.87	833.19	0.84	
3579.00	18.00	74.200	3445.78	903.82	277.25	860.24	0.39	
3666.00	16.60	74.600	3528.84	929.67	284.21	885.16	1.61	
3756.00	14.90	73.200	3615.46	954.09	290.97	908.63	1.94	
3845.00	13.00	77.000	3701.83	975.50	296.53	929.35	2.37	
3934.00	12.70	76.700	3788.60	995.23	301.03	948.62	0.35	



# Actual Wellpath Report

FEHRN 41-32 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 FEHRN 41-32 (1654'FNL & 1081'FEL)
Area	COLORADO	Well	FEHRN 41-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 41-32 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
4024.00	10.400	75.300	3876.77	1013.21	305.37	966.11	2.57	
4112.00	8.700	73.500	3963.55	1027.79	309.27	980.17	1.96	
4201.00	7.700	72.500	4051.64	1040.49	312.98	992.31	1.13	
4290.00	6.300	82.300	4139.98	1051.26	315.43	1002.84	2.06	
4379.00	5.500	82.000	4228.51	1060.27	316.67	1011.90	0.90	
4467.00	3.900	62.600	4316.21	1067.37	318.64	1018.74	2.54	
4556.00	2.200	26.100	4405.09	1071.54	321.56	1022.18	2.81	
4645.00	1.100	113.900	4494.06	1073.37	322.75	1023.71	2.72	
4734.00	0.700	271.400	4583.06	1073.49	322.42	1023.95	1.99	
4824.00	0.700	268.300	4673.05	1072.44	322.42	1022.85	0.04	
4912.00	0.800	265.500	4761.04	1071.33	322.35	1021.70	0.12	
5003.00	0.900	265.800	4852.03	1070.02	322.25	1020.35	0.11	
5091.00	1.100	256.300	4940.02	1068.50	322.00	1018.84	0.29	
5179.00	1.100	248.200	5028.00	1066.82	321.49	1017.24	0.18	
5269.00	1.200	250.000	5117.99	1065.01	320.84	1015.55	0.12	
5358.00	1.500	255.300	5206.96	1062.92	320.23	1013.55	0.36	
5447.00	0.500	32.700	5295.95	1062.06	320.26	1012.63	2.13	
5537.00	0.800	8.500	5385.95	1062.64	321.21	1012.93	0.44	
5626.00	0.800	355.500	5474.94	1063.06	322.45	1012.98	0.20	
5715.00	1.200	355.800	5563.92	1063.42	323.99	1012.86	0.45	
5805.00	1.100	350.200	5653.91	1063.76	325.79	1012.64	0.17	
5896.00	1.100	348.100	5744.89	1063.97	327.50	1012.32	0.04	
5985.00	1.100	337.500	5833.87	1063.99	329.13	1011.81	0.23	
6073.00	1.400	40.100	5921.86	1064.83	330.73	1012.18	1.50	
6164.00	1.200	38.700	6012.83	1066.57	332.32	1013.49	0.22	
6252.00	1.200	35.500	6100.81	1068.07	333.79	1014.60	0.08	
6342.00	1.000	34.500	6190.80	1069.45	335.21	1015.60	0.22	
6433.00	0.800	22.500	6281.79	1070.49	336.45	1016.29	0.30	
6521.00	0.700	21.100	6369.78	1071.23	337.52	1016.72	0.12	
6608.00	0.600	14.400	6456.77	1071.80	338.45	1017.02	0.14	
6699.00	0.500	10.900	6547.77	1072.25	339.31	1017.22	0.12	
6787.00	0.300	353.400	6635.77	1072.48	339.91	1017.26	0.26	
6876.00	0.100	41.500	6724.77	1072.59	340.20	1017.29	0.28	
6965.00	0.100	293.600	6813.77	1072.60	340.29	1017.27	0.18	
7055.00	0.300	211.700	6903.77	1072.36	340.12	1017.07	0.34	
7144.00	1.000	177.600	6992.76	1071.97	339.15	1016.98	0.87	
7235.00	0.700	152.300	7083.75	1071.86	337.86	1017.27	0.52	
7322.00	0.200	93.900	7170.75	1072.09	337.38	1017.67	0.71	
7413.00	0.400	48.600	7261.75	1072.53	337.58	1018.07	0.32	
7503.00	0.500	75.800	7351.74	1073.21	337.88	1018.69	0.26	
7592.00	0.900	101.300	7440.74	1074.21	337.84	1019.75	0.56	
7679.00	1.100	96.400	7527.72	1075.57	337.62	1021.25	0.25	
7765.00	1.000	116.800	7613.71	1076.85	337.19	1022.74	0.45	
7853.00	1.100	125.400	7701.69	1077.91	336.35	1024.11	0.21	
7944.00	1.000	128.700	7792.68	1078.87	335.35	1025.44	0.13	



## Actual Wellpath Report

FEHRN 41-32 AWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 FEHRN 41-32 (1654'FNL & 1081'FEL)
Area	COLORADO	Well	FEHRN 41-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 41-32 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
8033.00	0.800	141.400	7881.67	1079.52	334.38	1026.44	0.32	
8123.00	0.700	150.900	7971.66	1079.85	333.40	1027.10	0.18	
8182.00	0.700	153.000	8030.66	1079.98	332.77	1027.43	0.04	LAST BHI MWD SURVEY
8232.00	0.700	153.000	8080.65	1080.07	332.22	1027.71	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: FEHRN 41-32 AWB Ref Wellpath: FEHRN 41-32 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	908.51	0.00	0.00	36.71	96.01
8.625in Casing Surface	16.00	917.00	901.00	16.00	908.51	0.00	0.00	36.71	96.01
7.875in Open Hole	917.00	8232.00	7315.00	908.51	8080.65	36.71	96.01	332.22	1027.71

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
FEHRN 41-32 GEO TARGET 50' RADIUS (1320'FNL & 50'FEL, REV-1)		6000.00	330.84	1030.07	3198116.02	1279422.99	40°05'53.650"N	104°47'30.491"W	circle
FEHRN 41-32 HARDLINE 50'E OF GEO TARGET		6000.00	330.80	1080.08	3198166.03	1279423.35	40°05'53.650"N	104°47'29.847"W	point

WELLPATH COMPOSITION - Ref Wellbore: FEHRN 41-32 AWB Ref Wellpath: FEHRN 41-32 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 HOLE <164-862>	FEHRN 41-32 AWB
862.00	8182.00	NaviTrak (Standard)	BHI MWD NAVITRAK 7.875 <991-8182>	FEHRN 41-32 AWB
8182.00	8232.00	Blind Drilling (std)	Projection to bit	FEHRN 41-32 AWB