





## Actual Wellpath Report

FEHRN 7-32SX AWP  
Page 1 of 4



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#20 FEHRN 7-32SX (1655'FNL & 1161'FEL)
Area	COLORADO	Well	FEHRN 7-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 7-32SX 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 4:20:46 PM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/FEHRN_7-32SX_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	1311.17	449.52	3197008.65	1279082.99	40°05'50.377"N	104°47'44.776"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#20 FEHRN 7-32SX (1655'FNL & 1161'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	259.88°



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Page 2 of 4



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WELLPATH DATA (59 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	160.400	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	160.400	16.00	0.00	0.00	0.00	0.00	
160.00	1.000	160.400	159.99	-0.21	-1.18	0.42	0.69	
251.00	1.000	163.900	250.98	-0.42	-2.69	0.91	0.07	
342.00	1.200	163.200	341.96	-0.61	-4.37	1.40	0.22	
431.00	0.400	99.500	430.95	-1.01	-5.31	1.98	1.22	
521.00	0.600	79.500	520.95	-1.78	-5.28	2.75	0.29	
610.00	0.400	28.500	609.95	-2.44	-4.92	3.36	0.52	
700.00	0.500	35.900	699.94	-2.92	-4.33	3.74	0.13	
787.00	0.400	28.200	786.94	-3.38	-3.75	4.11	0.13	
862.00	0.400	16.900	861.94	-3.66	-3.27	4.31	0.11	
984.00	0.900	352.000	983.93	-3.89	-1.91	4.30	0.46	
1073.00	1.600	288.300	1072.91	-2.83	-0.83	3.02	1.63	
1161.00	2.600	298.500	1160.85	-0.19	0.51	0.10	1.21	
1250.00	2.700	270.100	1249.76	3.45	1.47	-3.77	1.46	
1339.00	3.500	265.800	1338.63	8.22	1.28	-8.58	0.94	
1429.00	4.100	255.500	1428.43	14.16	0.27	-14.43	1.01	
1516.00	4.900	257.800	1515.17	20.97	-1.29	-21.08	0.94	
1604.00	5.500	257.800	1602.80	28.95	-2.98	-28.87	0.68	
1695.00	5.500	258.100	1693.38	37.66	-4.80	-37.40	0.03	
1785.00	5.200	258.100	1782.99	46.05	-6.53	-45.61	0.33	
1875.00	5.400	253.900	1872.61	54.34	-8.55	-53.67	0.48	
1965.00	5.800	258.500	1962.18	63.10	-10.63	-62.20	0.67	
2053.00	5.500	261.600	2049.75	71.76	-12.13	-70.73	0.49	
2144.00	6.300	264.400	2140.27	81.09	-13.25	-80.01	0.93	
2233.00	6.500	257.000	2228.72	90.99	-14.86	-89.78	0.95	
2321.00	7.500	257.000	2316.06	101.70	-17.28	-100.23	1.14	
2410.00	8.000	260.600	2404.25	113.70	-19.59	-112.00	0.78	
2499.00	9.400	260.600	2492.22	127.16	-21.79	-125.28	1.57	
2589.00	10.500	255.300	2580.87	142.68	-25.07	-140.46	1.59	
2679.00	11.500	258.500	2669.21	159.83	-28.94	-157.19	1.30	
2769.00	12.900	256.300	2757.18	178.82	-33.11	-175.74	1.64	
2857.00	14.100	262.000	2842.75	199.34	-36.93	-195.90	2.03	
2946.00	14.900	259.500	2928.91	221.62	-40.52	-217.89	1.14	
3035.00	15.600	264.100	3014.78	244.99	-43.84	-241.04	1.57	
3125.00	15.600	263.000	3101.47	269.15	-46.56	-265.09	0.33	
3214.00	16.700	261.600	3186.95	293.88	-49.89	-289.62	1.31	
3304.00	16.800	261.300	3273.14	319.81	-53.74	-315.27	0.15	
3395.00	17.400	259.500	3360.11	346.56	-58.21	-341.65	0.88	
3484.00	17.500	254.600	3445.02	373.19	-64.19	-367.63	1.65	
3571.00	19.500	253.200	3527.52	400.64	-71.86	-394.15	2.35	
3660.00	19.700	251.100	3611.37	430.22	-81.01	-422.56	0.82	
3749.00	20.400	253.200	3694.97	460.45	-90.36	-451.60	1.13	
3838.00	22.000	256.000	3777.95	492.50	-98.87	-482.63	2.13	
3925.00	23.500	257.800	3858.18	526.09	-106.48	-515.40	1.90	



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Page 3 of 4



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

WELLPATH DATA (59 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS ["/100ft]	Comments
4014.00	22.100	257.000	3940.22	560.55	-114.00	-549.06	1.61	
4104.00	22.100	260.900	4023.62	594.38	-120.48	-582.27	1.63	
4193.00	20.700	263.000	4106.48	626.83	-125.05	-614.42	1.79	
4281.00	20.800	263.000	4188.77	657.96	-128.85	-645.36	0.11	
4371.00	21.000	258.500	4272.85	690.04	-134.01	-677.03	1.80	
4460.00	22.300	259.900	4355.57	722.87	-140.15	-709.28	1.57	
4549.00	21.500	260.200	4438.15	756.07	-145.89	-741.98	0.91	
4638.00	21.200	260.900	4521.04	788.47	-151.21	-773.94	0.44	
4726.00	24.300	263.400	4602.19	822.46	-155.81	-807.64	3.69	
4817.00	25.900	260.900	4684.60	861.02	-161.11	-845.87	2.11	
4905.00	26.900	262.000	4763.42	900.13	-166.92	-884.56	1.26	
4996.00	27.800	263.400	4844.25	941.89	-172.22	-926.03	1.22	
5070.00	27.800	263.400	4909.70	976.33	-176.19	-960.32	0.00	LAST BHI MWD SURVEY
5120.00	27.800	263.400	4953.93	999.61	-178.87	-983.48	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: FEHRN 7-32SX AWB Ref Wellpath: FEHRN 7-32SX 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	916.94	0.00	0.00	-2.79	4.36
8.625in Casing Surface	16.00	917.00	901.00	16.00	916.94	0.00	0.00	-2.79	4.36
7.875in Open Hole	917.00	5120.00	4203.00	916.94	4953.93	-2.79	4.36	-178.87	-983.48



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Page 4 of 4



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

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
FEHRN 7-32SX BHL ON PLAT (1830'FNL & 2130'FEL, REV-1)		4466.00	-171.93	-968.57	3196041.51	1278903.39	40°05'48.678"N	104°47'57.239"W	point
FEHRN 7-32SX GEO TARGET 50' RADIUS (1831'FNL & 2130'FEL, REV-2)		4466.00	-172.93	-968.55	3196041.54	1278902.38	40°05'48.668"N	104°47'57.239"W	circle
FEHRN 7-32SX LEGAL BOX (50'N,350'S,59'W,341'E OF GEO TARGET)		4466.00	-322.93	-827.55	3196183.72	1278753.52	40°05'47.186"N	104°47'55.424"W	square

WELLPATH COMPOSITION - Ref Wellbore: FEHRN 7-32SX AWB Ref Wellpath: FEHRN 7-32SX 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 7-32SX AWB
862.00	5070.00	NaviTrak (Standard)	BHI MWD NAVITRAK 7.875 <984-5070>	FEHRN 7-32SX AWB
5070.00	5120.00	Blind Drilling (std)	Projection to bit	FEHRN 7-32SX AWB