

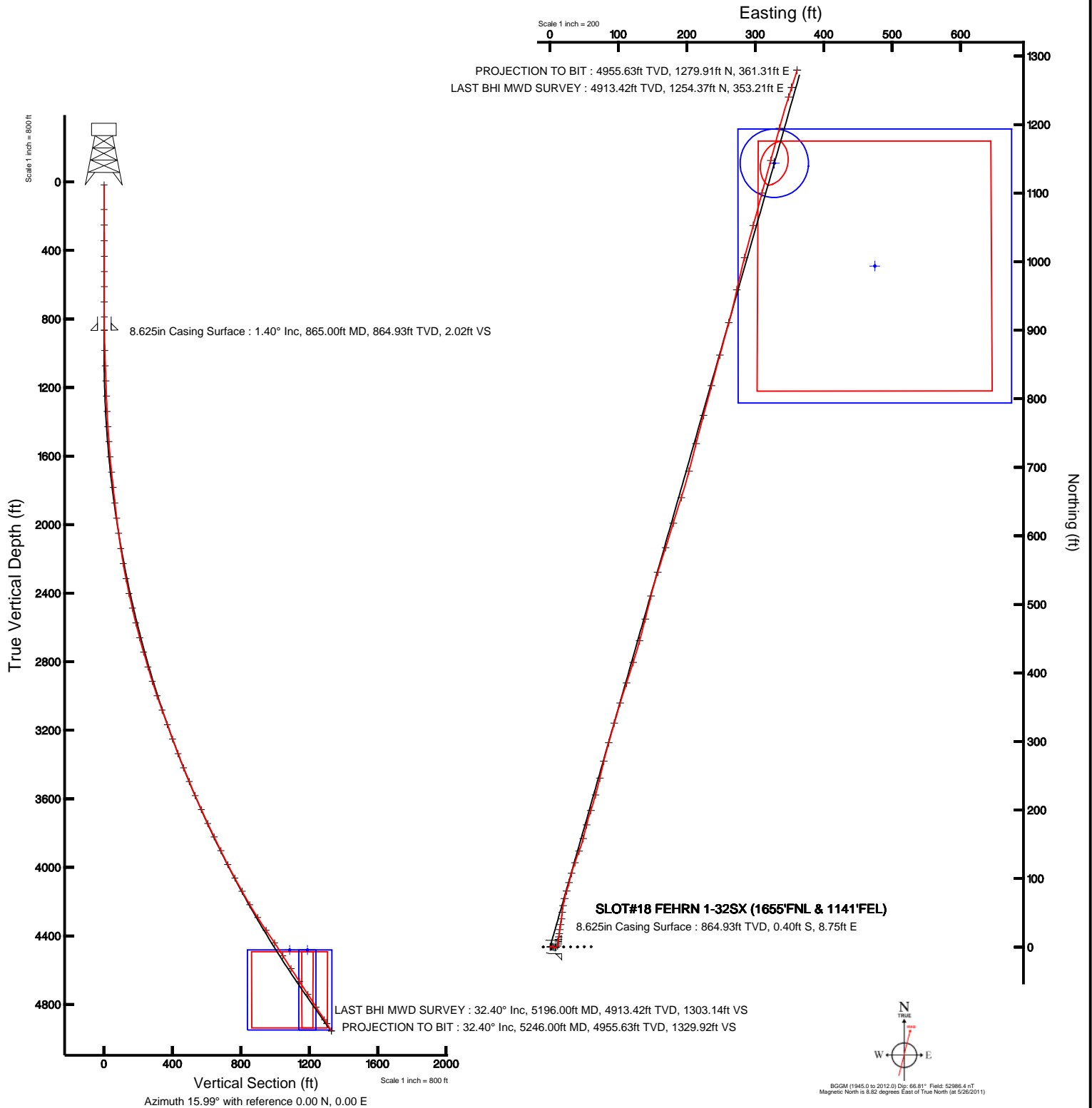


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#18 FEHRN 1-32SX (1655'FNL & 1141'FEL)  
Field: WELD COUNTY (KERR MCGEE) Well: FEHRN 1-32SX  
Facility: SEC.32-T2N-R66W Wellbore: FEHRN 1-32SX PWB



Plot reference wellpath is FEHRN 1-32SX (REV-B.0) PWP	
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: 4932 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#18 FEHRN 1-32SX (1655'FNL & 1141'FEL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: doddanna on 9/8/2011





# Actual Wellpath Report

FEHRN 1-32SX AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#18 FEHRN 1-32SX (1655'FNL & 1141'FEL)
Area	COLORADO	Well	FEHRN 1-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 1-32SX 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 11:23:08 AM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/FEHRN_1-32SX_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	1311.18	469.66	3197028.79	1279083.15	40°05'50.377"N	104°47'44.516"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#18 FEHRN 1-32SX (1655'FNL & 1141'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	15.99°



# Actual Wellpath Report

FEHRN 1-32SX AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#18 FEHRN 1-32SX (1655'FNL & 1141'FEL)
Area	COLORADO	Well	FEHRN 1-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 1-32SX AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (61 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	75.300	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	75.300	16.00	0.00	0.00	0.00	0.00	
160.00	0.500	75.300	160.00	0.32	0.16	0.61	0.35	
251.00	0.400	59.500	251.00	0.75	0.42	1.27	0.17	
342.00	0.300	117.800	341.99	0.94	0.47	1.75	0.39	
433.00	0.500	86.200	432.99	1.02	0.39	2.36	0.32	
522.00	0.500	92.100	521.99	1.25	0.40	3.13	0.06	
611.00	1.100	106.600	610.98	1.33	0.14	4.34	0.71	
699.00	1.200	131.200	698.96	0.93	-0.71	5.84	0.57	
788.00	1.000	67.900	787.95	1.01	-1.03	7.26	1.31	
865.00	1.400	66.500	864.93	2.02	-0.40	8.75	0.52	
984.00	1.600	38.000	983.89	4.49	1.49	11.10	0.64	
1073.00	2.300	1.800	1072.84	7.37	4.25	11.93	1.55	
1161.00	1.900	359.000	1160.78	10.48	7.47	11.96	0.47	
1250.00	2.600	8.800	1249.72	13.89	10.94	12.24	0.89	
1339.00	2.300	7.100	1338.63	17.66	14.71	12.77	0.35	
1429.00	3.600	7.100	1428.51	22.24	19.31	13.34	1.44	
1516.00	4.300	7.100	1515.31	28.16	25.25	14.08	0.80	
1605.00	5.100	10.200	1604.01	35.39	32.46	15.19	0.94	
1695.00	6.000	8.500	1693.58	44.03	41.05	16.60	1.02	
1785.00	6.200	5.000	1783.07	53.47	50.54	17.72	0.47	
1875.00	6.500	10.200	1872.52	63.31	60.40	19.04	0.72	
1965.00	6.900	13.400	1961.91	73.78	70.67	21.20	0.61	
2054.00	7.700	17.300	2050.19	85.08	81.56	24.21	1.06	
2144.00	8.800	15.200	2139.25	97.99	93.96	27.81	1.27	
2233.00	9.300	15.200	2227.15	111.99	107.47	31.48	0.56	
2323.00	11.300	19.000	2315.69	128.07	122.83	36.26	2.35	
2411.00	12.500	20.800	2401.80	146.17	139.89	42.44	1.43	
2499.00	12.600	14.800	2487.70	165.25	158.07	48.28	1.49	
2588.00	14.200	14.100	2574.27	185.87	178.04	53.42	1.81	
2677.00	14.600	18.000	2660.48	207.99	199.30	59.54	1.18	
2764.00	16.600	16.200	2744.27	231.38	221.66	66.40	2.36	
2854.00	16.200	12.300	2830.61	256.76	246.28	72.66	1.30	
2942.00	17.400	14.100	2914.86	282.17	271.03	78.48	1.49	
3031.00	19.200	15.900	2999.35	310.10	298.02	85.73	2.12	
3120.00	19.900	15.900	3083.22	339.88	326.66	93.89	0.79	
3210.00	19.900	16.900	3167.85	370.52	356.05	102.54	0.38	
3299.00	20.200	18.300	3251.45	401.02	385.13	111.77	0.64	
3390.00	20.700	17.600	3336.72	432.79	415.37	121.57	0.61	
3479.00	22.400	15.200	3419.49	465.47	446.73	130.77	2.15	
3566.00	22.200	14.100	3499.99	498.48	478.67	139.12	0.53	
3655.00	23.500	14.100	3582.00	533.02	512.19	147.54	1.46	
3744.00	24.200	17.600	3663.41	568.99	546.79	157.38	1.77	
3834.00	25.300	18.000	3745.14	606.65	582.66	168.90	1.24	
3921.00	25.900	16.600	3823.60	644.23	618.55	180.07	0.98	



# Actual Wellpath Report

FEHRN 1-32SX AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#18 FEHRN 1-32SX (1655'FNL & 1141'FEL)
Area	COLORADO	Well	FEHRN 1-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 1-32SX AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (61 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4010.00	26.200	18.300	3903.56	683.30	655.84	191.79	0.90	
4100.00	26.800	14.400	3984.11	723.43	694.35	203.08	2.04	
4189.00	28.900	14.400	4062.79	764.99	734.62	213.42	2.36	
4277.00	29.000	15.200	4139.80	807.58	775.80	224.30	0.45	
4368.00	30.300	15.200	4218.88	852.59	819.25	236.10	1.43	
4456.00	33.000	15.500	4293.79	898.76	863.77	248.33	3.07	
4545.00	33.800	15.200	4368.09	947.75	911.02	261.30	0.92	
4634.00	33.800	12.300	4442.05	997.21	959.09	273.06	1.81	
4723.00	32.100	14.800	4516.73	1045.56	1006.15	284.38	2.45	
4813.00	33.400	15.500	4592.43	1094.24	1053.14	297.11	1.50	
4902.00	33.100	14.800	4666.86	1143.03	1100.24	309.86	0.55	
4992.00	33.400	15.200	4742.12	1192.37	1147.91	322.63	0.41	
5081.00	33.100	15.200	4816.55	1241.16	1195.00	335.43	0.34	
5169.00	32.300	17.600	4890.61	1288.69	1240.60	348.84	1.73	
5196.00	32.400	17.600	4913.42	1303.14	1254.37	353.21	0.37	LAST BHI MWD SURVEY
5246.00	32.400	17.600	4955.63	1329.92	1279.91	361.31	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: FEHRN 1-32SX AWB      Ref Wellpath: FEHRN 1-32SX 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	865.00	849.00	16.00	864.93	0.00	0.00	-0.40	8.75
8.625in Casing Surface	16.00	865.00	849.00	16.00	864.93	0.00	0.00	-0.40	8.75
7.875in Open Hole	865.00	5246.00	4381.00	864.93	4955.63	-0.40	8.75	1279.91	361.31



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Area	COLORADO	Well	FEHRN 1-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	FEHRN 1-32SX 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 1-32SX GEO TARGET 50' RADIUS (510'FNL & 810'FEL, REV-1)		4483.00	1143.86	327.89	3197347.57	1280229.54	40°06'01.681"N	104°47'40.297"W	circle
FEHRN 1-32SX LEGAL BOX (50'N,350'S,53'W,347'E OF GEO TARGET)		4483.00	993.88	474.87	3197495.73	1280080.73	40°06'00.199"N	104°47'38.406"W	square

WELLPATH COMPOSITION - Ref Wellbore: FEHRN 1-32SX AWB					Ref Wellpath: FEHRN 1-32SX AWP	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore	
16.00	865.00	NaviTrak (Standard)	BHI MWD NAVITRAK 12.25 <160-865>		FEHRN 1-32SX AWB	
865.00	5196.00	DMWD (Standard)	BHI MWD NAVITRAK 7.875 <984-5196>		FEHRN 1-32SX AWB	
5196.00	5246.00	Blind Drilling (std)	Projection to bit		FEHRN 1-32SX AWB	