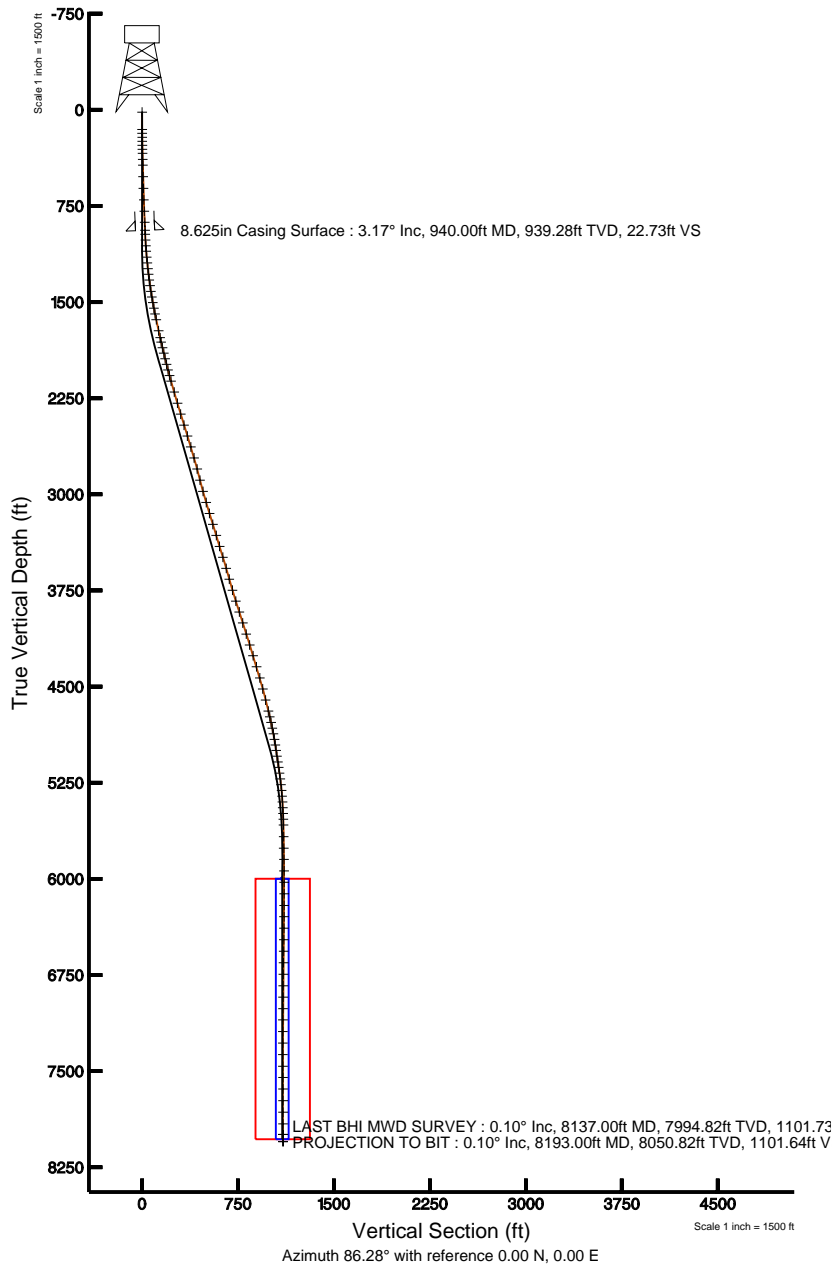
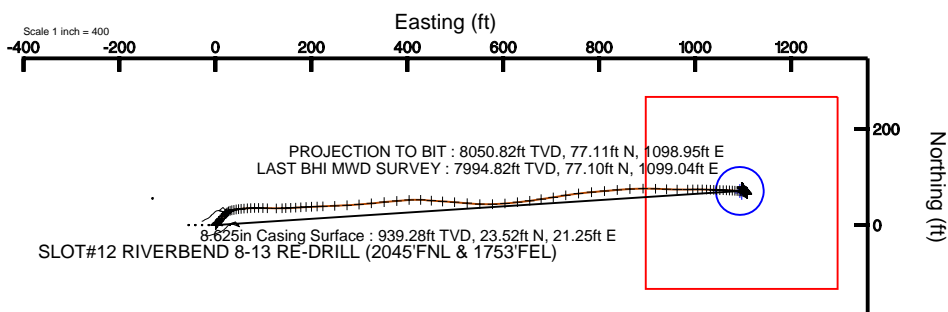


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#12 RIVERBEND 8-13 RE-DRILL (2045°FNL & 1753°FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: RIVERBEND 8-13 RE-DRILL
 Facility: SEC.13-T1N-R67W Wellbore: RIVERBEND 8-13 RE-DRILL PWB



Plot reference wellpath is RIVERBEND 8-13 RE-DRILL (REV-A.G) PWB	
True vertical depths are referenced to XTREME 7 (RKB)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 7 (RKB)	North Reference: True north
XTREME 7 (RKB) to Mean Sea Level: 4934 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.13-T1N-R67W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdamm on 1/13/2011



BGGM (1945.0 to 2012.0) Dip: 66.79° Field: 53021.7 nT
 Magnetic North is 8.92 degrees East of True North (at 11/16/2010)

To correct azimuth from Magnetic to True add 8.92 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 8.92 = 98.92



Actual Wellpath Report

RIVERBEND 8-13 RE-DRILL AWP

Page 1 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 RIVERBEND 8-13 RE-DRILL (2045'FNL & 1753'FEL)
Area	COLORADO	Well	RIVERBEND 8-13 RE-DRILL
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 8-13 RE-DRILL AWB
Facility	SEC.13-T1N-R67W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Cookdanm
Scale	0.999963	Report Generated	1/13/2011 at 11:07:26 PM
Convergence at slot	0.43° East	Database/Source file	Denver Server/RIVERBEND_8-13_RE-DRILL_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.36	50.11	3185880.38	1262745.53	40°03'09.774"N	104°50'09.550"W
Facility Reference Pt			3185830.27	1262744.80	40°03'09.770"N	104°50'10.194"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 7 (RKB) to Facility Vertical Datum	4934.00ft
Horizontal Reference Pt	Slot	XTREME 7 (RKB) to Mean Sea Level	4934.00ft
Vertical Reference Pt	XTREME 7 (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 7 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	86.28°



Actual Wellpath Report

RIVERBEND 8-13 RE-DRILL AWP

Page 2 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 RIVERBEND 8-13 RE-DRILL (2045'FNL & 1753'FEL)
Area	COLORADO	Well	RIVERBEND 8-13 RE-DRILL
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 8-13 RE-DRILL AWB
Facility	SEC.13-T1N-R67W		

WELLPATH DATA (120 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	113.300	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	113.300	17.00	0.00	0.00	0.00	0.00	
152.00	0.100	113.300	152.00	0.10	-0.05	0.11	0.07	
183.00	0.100	21.200	183.00	0.14	-0.03	0.14	0.46	
214.00	0.800	38.500	214.00	0.30	0.16	0.29	2.27	
245.00	1.500	30.000	244.99	0.67	0.68	0.62	2.32	
276.00	2.200	40.600	275.98	1.31	1.49	1.22	2.50	
307.00	2.100	38.800	306.95	2.11	2.38	1.96	0.39	
339.00	2.300	44.100	338.93	2.98	3.30	2.77	0.89	
386.00	2.000	40.600	385.90	4.25	4.60	3.96	0.70	
431.00	2.100	45.800	430.87	5.43	5.77	5.06	0.47	
521.00	1.900	39.200	520.81	7.70	8.08	7.19	0.34	
612.00	2.500	42.000	611.75	10.15	10.72	9.47	0.67	
702.00	2.800	43.400	701.65	13.16	13.78	12.29	0.34	
791.00	3.300	42.000	790.52	16.59	17.26	15.50	0.57	
877.00	3.300	42.700	876.38	20.15	20.92	18.84	0.05	
971.00	3.100	43.000	970.23	23.96	24.76	22.41	0.21	
1016.00	3.900	50.800	1015.15	26.10	26.62	24.42	2.06	
1061.00	4.500	60.000	1060.03	28.93	28.47	27.14	2.00	
1104.00	4.800	71.500	1102.89	32.18	29.89	30.30	2.27	
1150.00	4.900	81.300	1148.73	36.00	30.79	34.07	1.81	
1195.00	6.000	78.500	1193.52	40.24	31.55	38.28	2.51	
1240.00	6.300	80.000	1238.26	45.03	32.45	43.01	0.76	
1285.00	6.700	82.400	1282.97	50.10	33.23	48.04	1.07	
1330.00	7.300	84.900	1327.64	55.58	33.83	53.49	1.50	
1374.00	8.400	85.900	1371.22	61.58	34.31	59.48	2.52	
1419.00	9.100	84.500	1415.70	68.43	34.88	66.31	1.63	
1463.00	9.800	87.300	1459.10	75.65	35.39	73.51	1.90	
1508.00	10.300	88.400	1503.41	83.50	35.69	81.36	1.19	
1553.00	11.200	90.500	1547.62	91.88	35.76	89.75	2.18	
1598.00	11.700	92.900	1591.73	100.77	35.49	98.68	1.53	
1644.00	12.000	93.300	1636.75	110.15	34.98	108.11	0.68	
1733.00	12.300	88.700	1723.76	128.80	34.66	126.82	1.14	
1788.00	12.800	87.200	1777.44	140.75	35.09	138.76	1.09	
1823.00	13.000	87.300	1811.56	148.56	35.47	146.57	0.57	
1868.00	13.500	87.700	1855.36	158.87	35.92	156.87	1.13	
1912.00	13.600	86.600	1898.14	169.18	36.43	167.17	0.63	
1957.00	13.800	86.600	1941.86	179.84	37.06	177.81	0.44	
2002.00	14.400	87.300	1985.50	190.80	37.64	188.76	1.39	
2047.00	14.900	87.300	2029.04	202.18	38.18	200.12	1.11	
2092.00	15.200	88.700	2072.49	213.86	38.59	211.80	1.05	
2137.00	15.900	88.000	2115.85	225.91	38.93	223.86	1.61	
2226.00	16.400	87.300	2201.33	250.66	39.95	248.59	0.60	
2317.00	16.400	87.300	2288.63	276.35	41.16	274.26	0.00	
2406.00	16.200	84.900	2374.05	301.32	42.86	299.17	0.79	



Actual Wellpath Report

RIVERBEND 8-13 RE-DRILL AWP

Page 3 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 RIVERBEND 8-13 RE-DRILL (2045'FNL & 1753'FEL)
Area	COLORADO	Well	RIVERBEND 8-13 RE-DRILL
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 8-13 RE-DRILL AWB
Facility	SEC.13-T1N-R67W		

WELLPATH DATA (120 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2496.00	17.200	84.200	2460.26	327.17	45.32	324.92	1.13	
2585.00	17.800	84.900	2545.14	353.92	47.86	351.56	0.71	
2674.00	17.100	84.900	2630.04	380.60	50.23	378.14	0.79	
2763.00	16.400	85.600	2715.26	406.25	52.36	403.70	0.82	
2853.00	14.600	94.000	2802.00	430.20	52.54	427.69	3.19	
2943.00	14.300	94.400	2889.15	452.44	50.90	450.09	0.35	
3034.00	15.500	94.000	2977.09	475.62	49.19	473.43	1.32	
3124.00	17.000	92.900	3063.49	500.61	47.68	498.56	1.70	
3213.00	17.300	96.500	3148.54	526.55	45.53	524.71	1.24	
3303.00	17.100	91.500	3234.52	552.90	43.66	551.23	1.66	
3393.00	17.100	89.400	3320.54	579.29	43.46	577.69	0.69	
3482.00	17.000	84.200	3405.63	605.36	44.91	603.72	1.72	
3571.00	17.100	83.800	3490.72	631.43	47.64	629.67	0.17	
3661.00	16.000	82.800	3576.99	657.04	50.62	655.13	1.26	
3749.00	15.900	81.700	3661.60	681.16	53.88	679.09	0.36	
3839.00	16.800	81.700	3747.96	706.41	57.54	704.16	1.00	
3928.00	17.700	79.200	3832.96	732.66	61.93	730.18	1.31	
4017.00	17.600	84.200	3917.78	759.53	65.82	756.86	1.71	
4107.00	17.600	84.500	4003.56	786.73	68.50	783.94	0.10	
4198.00	17.300	85.600	4090.38	814.01	70.86	811.12	0.49	
4287.00	17.500	84.200	4175.30	840.62	73.23	837.63	0.52	
4375.00	17.800	87.700	4259.16	867.29	75.10	864.24	1.25	
4465.00	17.400	88.700	4344.95	894.48	75.96	891.43	0.56	
4556.00	15.700	92.600	4432.18	920.32	75.71	917.34	2.23	
4645.00	14.400	93.300	4518.13	943.27	74.53	940.42	1.47	
4735.00	14.200	89.800	4605.34	965.40	73.92	962.63	0.99	
4824.00	14.100	89.400	4691.64	987.12	74.07	984.39	0.16	
4870.00	13.500	89.100	4736.31	998.08	74.22	995.36	1.31	
4915.00	12.400	89.100	4780.16	1008.15	74.38	1005.44	2.44	
4960.00	12.000	91.200	4824.15	1017.63	74.35	1014.95	1.33	
5005.00	11.100	92.600	4868.24	1026.60	74.06	1023.95	2.09	
5049.00	9.700	92.600	4911.51	1034.50	73.70	1031.89	3.18	
5094.00	8.300	94.400	4955.96	1041.48	73.28	1038.91	3.17	
5137.00	8.000	90.800	4998.52	1047.53	73.00	1045.00	1.38	
5182.00	8.700	91.500	5043.05	1054.05	72.87	1051.53	1.57	
5228.00	9.100	91.200	5088.49	1061.13	72.70	1058.65	0.88	
5271.00	8.600	92.200	5130.98	1067.72	72.50	1065.26	1.22	
5316.00	7.800	92.900	5175.52	1074.10	72.22	1071.67	1.79	
5361.00	7.300	93.300	5220.13	1079.97	71.90	1077.58	1.12	
5407.00	6.400	94.000	5265.80	1085.41	71.55	1083.05	1.96	
5452.00	5.500	98.200	5310.56	1090.01	71.07	1087.69	2.22	
5497.00	4.800	97.500	5355.38	1093.96	70.52	1091.69	1.56	
5542.00	3.400	100.000	5400.26	1097.11	70.04	1094.87	3.14	
5587.00	3.300	100.000	5445.18	1099.66	69.58	1097.46	0.22	
5632.00	3.000	104.900	5490.12	1102.04	69.06	1099.87	0.90	



Actual Wellpath Report

RIVERBEND 8-13 RE-DRILL AWP

Page 4 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 RIVERBEND 8-13 RE-DRILL (2045'FNL & 1753'FEL)
Area	COLORADO	Well	RIVERBEND 8-13 RE-DRILL
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 8-13 RE-DRILL AWP
Facility	SEC.13-T1N-R67W		

WELLPATH DATA (120 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5677.00	2.200	106.000	5535.07	1103.97	68.52	1101.84	1.78	
5722.00	1.200	111.900	5580.05	1105.20	68.10	1103.11	2.25	
5813.00	0.600	105.300	5671.04	1106.51	67.62	1104.45	0.67	
5903.00	0.800	119.300	5761.03	1107.49	67.19	1105.46	0.29	
5991.00	1.300	125.600	5849.01	1108.77	66.31	1106.80	0.58	
6080.00	0.700	122.800	5938.00	1109.99	65.42	1108.08	0.68	
6169.00	0.200	143.600	6027.00	1110.51	65.00	1108.63	0.58	
6259.00	0.400	147.800	6117.00	1110.75	64.61	1108.89	0.22	
6350.00	1.200	335.900	6207.99	1110.57	65.21	1108.67	1.75	
6438.00	1.300	329.900	6295.97	1109.80	66.92	1107.79	0.19	
6528.00	1.100	319.700	6385.95	1108.83	68.46	1106.72	0.32	
6617.00	1.100	320.400	6474.93	1107.82	69.77	1105.63	0.02	
6707.00	0.900	325.000	6564.92	1106.95	71.02	1104.67	0.24	
6797.00	1.500	317.900	6654.90	1105.85	72.47	1103.47	0.69	
6887.00	1.300	317.200	6744.87	1104.48	74.09	1101.99	0.22	
6977.00	1.000	313.400	6834.86	1103.30	75.38	1100.73	0.34	
7066.00	0.900	313.000	6923.84	1102.29	76.39	1099.65	0.11	
7155.00	0.700	313.700	7012.83	1101.44	77.24	1098.75	0.22	
7243.00	0.600	309.900	7100.83	1100.75	77.91	1098.01	0.12	
7334.00	0.400	326.000	7191.83	1100.24	78.48	1097.46	0.27	
7424.00	0.100	318.300	7281.82	1100.03	78.80	1097.23	0.33	
7514.00	0.300	87.300	7371.82	1100.22	78.87	1097.42	0.41	
7605.00	0.400	105.600	7462.82	1100.76	78.79	1097.96	0.16	
7693.00	0.400	128.500	7550.82	1101.28	78.52	1098.50	0.18	
7782.00	0.400	134.400	7639.82	1101.71	78.11	1098.96	0.05	
7873.00	0.200	142.900	7730.82	1102.01	77.76	1099.29	0.22	
7964.00	0.200	216.700	7821.82	1102.00	77.51	1099.29	0.26	
8055.00	0.200	194.500	7912.82	1101.85	77.22	1099.15	0.08	
8137.00	0.100	278.900	7994.82	1101.73	77.10	1099.04	0.26	LAST BHI MWD SURVEY
8193.00	0.100	278.900	8050.82	1101.64	77.11	1098.95	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS									
Ref Wellbore: RIVERBEND 8-13 RE-DRILL AWP					Ref Wellpath: RIVERBEND 8-13 RE-DRILL 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	17.00	940.00	923.00	17.00	939.28	0.00	0.00	23.52	21.25
8.625in Casing Surface	17.00	940.00	923.00	17.00	939.28	0.00	0.00	23.52	21.25
7.875in Open Hole	940.00	8193.00	7253.00	939.28	8050.82	23.52	21.25	77.11	1098.95



Actual Wellpath Report

RIVERBEND 8-13 RE-DRILL AWP

Page 5 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 RIVERBEND 8-13 RE-DRILL (2045'FNL & 1753'FEL)
Area	COLORADO	Well	RIVERBEND 8-13 RE-DRILL
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 8-13 RE-DRILL AWB
Facility	SEC.13-T1N-R67W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
RIVERBEND 8-13 GEO TARGET 50' RADIUS (1980'FNL & 660'FEL, REV-1)		6000.00	71.06	1093.19	3186972.96	1262824.78	40°03'10.476"N	104°49'55.492"W	circle
RIVERBEND 8-13 LEGAL BOX (204'S,196'N,204'E,196'W OF GEO TARGET)		6000.00	67.07	1097.20	3186976.99	1262820.81	40°03'10.437"N	104°49'55.440"W	square

WELLPATH COMPOSITION					Ref Wellbore: RIVERBEND 8-13 RE-DRILL AWB	Ref Wellpath: RIVERBEND 8-13 RE-DRILL AWP
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore	
17.00	877.00	NaviTrak (Standard)	BHI MWD SURVEY 12.25 HOLE <152-877>		RIVERBEND 8-13 RE-DRILL AWB	
877.00	8137.00	NaviTrak (Standard)	BHI MWD SURVEYS 7.875 HOLE <971-8137>		RIVERBEND 8-13 RE-DRILL AWB	
8137.00	8193.00	Blind Drilling (std)	Projection to bit		RIVERBEND 8-13 RE-DRILL AWB	



Actual Wellpath Report

RIVERBEND 8-13 RE-DRILL AWP

Page 6 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 RIVERBEND 8-13 RE-DRILL (2045'FNL & 1753'FEL)
Area	COLORADO	Well	RIVERBEND 8-13 RE-DRILL
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 8-13 RE-DRILL AWB
Facility	SEC.13-T1N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8137.00	0.100	278.900	7994.82	LAST BHI MWD SURVEY
8193.00	0.100	278.900	8050.82	PROJECTION TO BIT