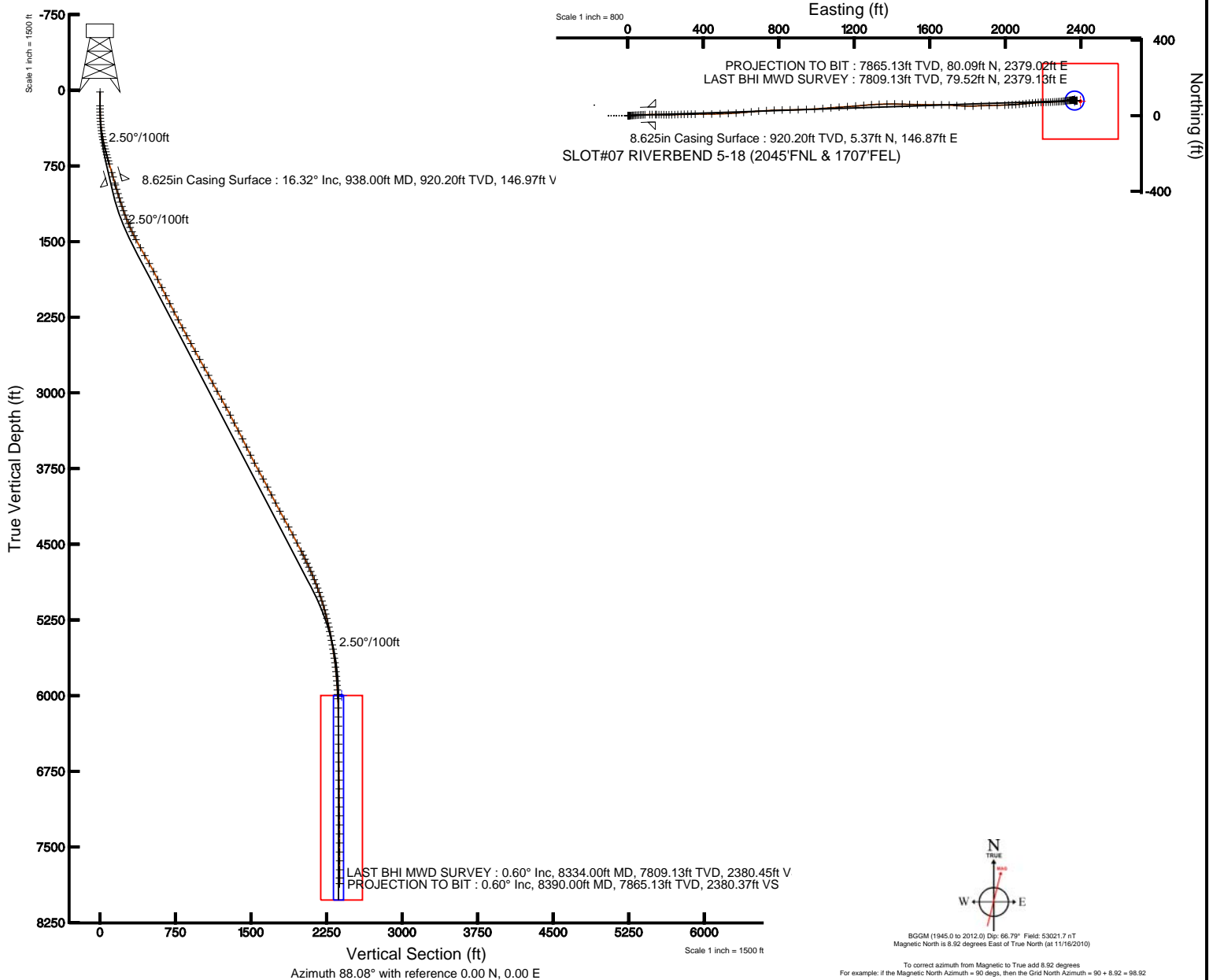


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#07 RIVERBEND 5-18 (2045°FNL & 1707°FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: RIVERBEND 5-18
 Facility: SEC.13-T1N-R67W Wellbore: RIVERBEND 5-18 PWB



Plot reference wellpath is RIVERBEND 5-18 (REV-A.0) PWP	
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





Actual Wellpath Report

RIVERBEND 5-18 awp

Page 1 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 RIVERBEND 5-18 (2045'FNL & 1707'FEL)
Area	COLORADO	Well	RIVERBEND 5-18
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 5-18 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 9:19:03 PM
Convergence at slot	0.43° East	Database/Source file	Denver Server/RIVERBEND_5-18_awb.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.73	96.02	3185926.28	1262746.24	40°03'09.778"N	104°50'08.959"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	88.08°



Actual Wellpath Report

RIVERBEND 5-18 awp

Page 2 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 RIVERBEND 5-18 (2045'FNL & 1707'FEL)
Area	COLORADO	Well	RIVERBEND 5-18
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 5-18 awb
Facility	SEC.13-T1N-R67W		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	172.100	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	172.100	17.00	0.00	0.00	0.00	0.00	
154.00	0.400	172.100	154.00	0.05	-0.47	0.07	0.29	
184.00	0.400	109.800	184.00	0.16	-0.61	0.18	1.38	
215.00	1.100	95.800	215.00	0.55	-0.68	0.58	2.32	
246.00	1.900	95.100	245.98	1.36	-0.76	1.38	2.58	
277.00	3.100	93.700	276.95	2.70	-0.86	2.73	3.88	
309.00	4.200	89.800	308.89	4.74	-0.91	4.77	3.52	
340.00	5.400	86.600	339.78	7.33	-0.82	7.36	3.96	
369.00	6.500	85.600	368.62	10.33	-0.61	10.36	3.81	
400.00	7.900	84.500	399.38	14.21	-0.27	14.23	4.54	
431.00	9.100	84.900	430.04	18.79	0.15	18.79	3.88	
462.00	10.300	85.600	460.59	24.00	0.58	24.00	3.89	
492.00	11.400	86.300	490.06	29.65	0.98	29.63	3.69	
523.00	12.500	85.600	520.38	36.06	1.43	36.03	3.58	
554.00	13.400	86.300	550.60	43.00	1.92	42.96	2.95	
585.00	14.200	85.600	580.70	50.39	2.45	50.34	2.64	
615.00	14.800	86.300	609.74	57.90	2.98	57.83	2.08	
646.00	15.100	87.000	639.70	65.89	3.44	65.81	1.13	
677.00	15.300	87.000	669.61	74.02	3.87	73.93	0.65	
708.00	15.800	87.000	699.48	82.33	4.30	82.23	1.61	
739.00	16.100	87.700	729.28	90.85	4.70	90.74	1.15	
829.00	16.600	89.400	815.64	116.18	5.33	116.06	0.77	
875.00	16.400	89.800	859.75	129.24	5.42	129.13	0.50	
956.00	16.300	90.800	937.47	152.02	5.31	151.93	0.37	
1001.00	16.700	90.500	980.62	164.79	5.16	164.71	0.91	
1046.00	16.800	91.200	1023.71	177.74	4.97	177.68	0.50	
1091.00	16.800	91.200	1066.79	190.73	4.70	190.68	0.00	
1135.00	17.700	90.800	1108.81	203.76	4.47	203.72	2.06	
1180.00	19.300	89.400	1151.48	218.03	4.45	218.00	3.69	
1225.00	20.300	89.100	1193.82	233.27	4.65	233.24	2.23	
1270.00	20.100	88.400	1236.06	248.81	4.99	248.78	0.70	
1316.00	21.500	87.300	1279.06	265.14	5.61	265.10	3.16	
1361.00	22.600	88.000	1320.76	282.03	6.30	281.98	2.51	
1404.00	23.700	89.100	1360.30	298.93	6.72	298.88	2.75	
1450.00	25.100	88.700	1402.19	317.94	7.09	317.88	3.06	
1493.00	26.400	90.100	1440.92	336.61	7.28	336.55	3.34	
1538.00	28.100	89.800	1480.93	357.20	7.30	357.16	3.79	
1629.00	29.300	89.400	1560.75	400.89	7.61	400.86	1.34	
1718.00	29.700	88.700	1638.21	444.70	8.34	444.68	0.59	
1808.00	29.200	88.000	1716.58	488.95	9.61	488.91	0.67	
1899.00	27.900	88.000	1796.51	532.44	11.12	532.37	1.43	
1988.00	27.400	86.300	1875.35	573.74	13.17	573.62	1.05	
2078.00	26.100	84.900	1955.71	614.20	16.27	614.00	1.61	
2168.00	26.500	84.900	2036.40	654.02	19.81	653.72	0.44	



Actual Wellpath Report

RIVERBEND 5-18 awp

Page 3 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 RIVERBEND 5-18 (2045'FNL & 1707'FEL)
Area	COLORADO	Well	RIVERBEND 5-18
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 5-18 awb
Facility	SEC.13-T1N-R67W		

WELLPATH DATA (132 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2257.00	26.900	84.500	2115.91	693.94	23.51	693.54	0.49	
2347.00	27.300	87.300	2196.03	734.90	26.43	734.42	1.49	
2436.00	27.600	87.700	2275.01	775.92	28.22	775.41	0.40	
2527.00	28.000	88.700	2355.51	818.36	29.55	817.83	0.68	
2616.00	28.600	89.100	2433.87	860.55	30.36	860.02	0.71	
2704.00	29.400	88.400	2510.84	903.21	31.29	902.67	0.99	
2793.00	28.800	88.400	2588.60	946.49	32.50	945.94	0.67	
2884.00	28.700	86.300	2668.39	990.25	34.53	989.65	1.12	
2974.00	29.400	85.200	2747.06	1033.92	37.77	1033.23	0.98	
3064.00	28.200	85.600	2825.93	1077.23	41.25	1076.45	1.35	
3155.00	28.700	86.300	2905.94	1120.55	44.31	1119.69	0.66	
3245.00	29.700	85.900	2984.50	1164.43	47.30	1163.50	1.13	
3334.00	28.800	85.200	3062.15	1207.87	50.67	1206.85	1.08	
3424.00	28.300	85.200	3141.21	1250.83	54.27	1249.71	0.56	
3513.00	27.200	86.300	3219.97	1292.23	57.34	1291.04	1.36	
3601.00	27.800	88.400	3298.03	1332.86	59.22	1331.62	1.30	
3691.00	27.600	87.300	3377.72	1374.69	60.78	1373.43	0.61	
3780.00	26.600	89.800	3456.95	1415.23	61.82	1413.95	1.70	
3870.00	26.400	92.600	3537.49	1455.31	60.99	1454.09	1.41	
3959.00	26.300	92.600	3617.25	1494.69	59.20	1493.55	0.11	
4047.00	28.100	91.200	3695.51	1534.83	57.88	1533.75	2.17	
4138.00	28.900	90.800	3775.49	1578.19	57.12	1577.16	0.90	
4228.00	27.900	89.800	3854.65	1620.96	56.89	1619.96	1.23	
4318.00	28.000	89.800	3934.15	1663.13	57.04	1662.15	0.11	
4406.00	27.000	94.700	4012.22	1703.62	55.47	1702.72	2.81	
4496.00	27.500	93.300	4092.23	1744.61	52.60	1743.82	0.90	
4587.00	28.200	91.900	4172.69	1786.98	50.68	1786.29	1.05	
4676.00	28.900	88.400	4250.88	1829.48	50.58	1828.81	2.04	
4766.00	29.000	87.700	4329.63	1873.04	52.07	1872.35	0.39	
4855.00	27.900	88.400	4407.88	1915.44	53.51	1914.72	1.29	
4946.00	27.400	89.400	4488.49	1957.66	54.33	1956.94	0.75	
5036.00	26.800	87.700	4568.61	1998.65	55.36	1997.92	1.09	
5079.00	25.800	86.600	4607.16	2017.70	56.30	2016.95	2.59	
5124.00	25.400	87.000	4647.74	2037.14	57.39	2036.36	0.97	
5168.00	25.200	86.600	4687.52	2055.94	58.44	2055.14	0.60	
5213.00	25.100	84.500	4728.25	2075.04	59.92	2074.20	2.00	
5258.00	23.800	84.500	4769.22	2093.63	61.71	2092.74	2.89	
5302.00	23.100	84.200	4809.58	2111.11	63.43	2110.17	1.61	
5347.00	22.400	83.800	4851.08	2128.46	65.25	2127.47	1.59	
5392.00	21.100	84.500	4892.88	2145.10	66.95	2144.06	2.95	
5437.00	19.700	85.600	4935.05	2160.76	68.31	2159.68	3.23	
5482.00	19.100	86.600	4977.50	2175.70	69.33	2174.60	1.52	
5527.00	18.500	88.700	5020.10	2190.20	69.93	2189.08	2.01	
5572.00	17.200	88.400	5062.93	2203.99	70.27	2202.87	2.90	
5617.00	16.200	88.000	5106.03	2216.92	70.68	2215.80	2.24	



Actual Wellpath Report

RIVERBEND 5-18 awp

Page 4 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 RIVERBEND 5-18 (2045'FNL & 1707'FEL)
Area	COLORADO	Well	RIVERBEND 5-18
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 5-18 awb
Facility	SEC.13-T1N-R67W		

WELLPATH DATA (132 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5663.00	15.500	88.700	5150.28	2229.48	71.04	2228.36	1.58	
5706.00	15.200	87.300	5191.75	2240.87	71.44	2239.73	1.11	
5751.00	14.200	87.000	5235.28	2252.28	72.00	2251.14	2.23	
5797.00	13.500	87.000	5279.94	2263.29	72.58	2262.13	1.52	
5840.00	12.300	86.600	5321.85	2272.89	73.11	2271.72	2.80	
5884.00	11.500	86.300	5364.91	2281.96	73.68	2280.77	1.82	
5929.00	11.100	86.600	5409.04	2290.77	74.22	2289.57	0.90	
5974.00	10.700	83.100	5453.22	2299.27	74.98	2298.04	1.72	
6019.00	9.700	81.000	5497.51	2307.19	76.08	2305.94	2.37	
6063.00	9.100	81.300	5540.92	2314.32	77.18	2313.04	1.37	
6108.00	8.500	82.800	5585.39	2321.17	78.14	2319.85	1.43	
6153.00	8.000	82.800	5629.93	2327.60	78.95	2326.26	1.11	
6198.00	7.200	84.500	5674.53	2333.53	79.61	2332.17	1.85	
6243.00	6.400	83.100	5719.21	2338.84	80.18	2337.47	1.82	
6288.00	5.500	84.200	5763.97	2343.50	80.70	2342.11	2.02	
6334.00	4.800	84.200	5809.78	2347.61	81.12	2346.21	1.52	
6379.00	4.700	84.900	5854.63	2351.33	81.47	2349.92	0.26	
6424.00	3.900	84.500	5899.50	2354.70	81.78	2353.28	1.78	
6469.00	3.400	89.800	5944.41	2357.56	81.93	2356.14	1.34	
6514.00	3.000	91.900	5989.34	2360.07	81.90	2358.65	0.93	
6557.00	2.600	88.700	6032.29	2362.17	81.88	2360.75	1.00	
6648.00	1.800	111.900	6123.22	2365.54	81.40	2364.14	1.30	
6738.00	0.900	108.400	6213.20	2367.50	80.65	2366.12	1.00	
6828.00	0.500	90.100	6303.19	2368.55	80.42	2367.19	0.50	
6917.00	0.800	111.100	6392.18	2369.51	80.20	2368.16	0.43	
7006.00	0.600	110.900	6481.18	2370.51	79.81	2369.17	0.22	
7095.00	0.700	122.100	6570.17	2371.39	79.35	2370.07	0.18	
7184.00	0.800	96.100	6659.17	2372.46	79.00	2371.14	0.39	
7274.00	0.500	119.700	6749.16	2373.42	78.74	2372.11	0.44	
7363.00	0.500	100.300	6838.16	2374.13	78.48	2372.83	0.19	
7450.00	0.500	113.000	6925.15	2374.84	78.26	2373.55	0.13	
7540.00	0.400	98.200	7015.15	2375.51	78.06	2374.22	0.17	
7630.00	0.600	100.000	7105.15	2376.28	77.93	2375.00	0.22	
7717.00	0.400	75.700	7192.14	2377.02	77.93	2375.74	0.33	
7808.00	0.400	77.800	7283.14	2377.64	78.08	2376.36	0.02	
7897.00	0.400	84.200	7372.14	2378.26	78.17	2376.97	0.05	
7987.00	0.400	87.000	7462.14	2378.89	78.22	2377.60	0.02	
8077.00	0.300	92.600	7552.14	2379.43	78.23	2378.15	0.12	
8164.00	0.400	46.200	7639.13	2379.89	78.43	2378.60	0.33	
8253.00	0.400	39.900	7728.13	2380.33	78.88	2379.02	0.05	
8334.00	0.600	349.900	7809.13	2380.45	79.52	2379.13	0.57	LAST BHI MWD SURVEY
8390.00	0.600	349.900	7865.13	2380.37	80.09	2379.02	0.00	PROJECTION TO BIT



Actual Wellpath Report

RIVERBEND 5-18 awp

Page 5 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 RIVERBEND 5-18 (2045'FNL & 1707'FEL)
Area	COLORADO	Well	RIVERBEND 5-18
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 5-18 awb
Facility	SEC.13-T1N-R67W		

HOLE & CASING SECTIONS Ref Wellbore: RIVERBEND 5-18 awb Ref Wellpath: RIVERBEND 5-18 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	938.00	921.00	17.00	920.20	0.00	0.00	5.37	146.87
8.625in Casing Surface	17.00	938.00	921.00	17.00	920.20	0.00	0.00	5.37	146.87
7.875in Open Hole	938.00	8390.00	7452.00	920.20	7865.13	5.37	146.87	80.09	2379.02

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
RIVERBEND 5-18 GEO TARGET 50' RADIUS (1980'FNL & 660'FWL, SEC.18, REV-1)		6000.00	79.53	2367.23	3188292.76	1262843.50	40°03'10.562"N	104°49'38.518"W	circle
RIVERBEND 5-18 LEGAL BOX (196'N,204'S,169'W,231'E OF THE GEO TARGET)		6000.00	75.53	2398.23	3188323.78	1262839.73	40°03'10.523"N	104°49'38.119"W	square

WELLPATH COMPOSITION Ref Wellbore: RIVERBEND 5-18 awb Ref Wellpath: RIVERBEND 5-18 awp				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	8334.00	NaviTrak (Standard)	bhi mwd surveys <154-8334>	RIVERBEND 5-18 awb
8334.00	8390.00	Blind Drilling (std)	Projection to bit	RIVERBEND 5-18 awb



Actual Wellpath Report

RIVERBEND 5-18 awp

Page 6 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 RIVERBEND 5-18 (2045'FNL & 1707'FEL)
Area	COLORADO	Well	RIVERBEND 5-18
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 5-18 awb
Facility	SEC.13-T1N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8334.00	0.600	349.900	7809.13	LAST BHI MWD SURVEY
8390.00	0.600	349.900	7865.13	PROJECTION TO BIT