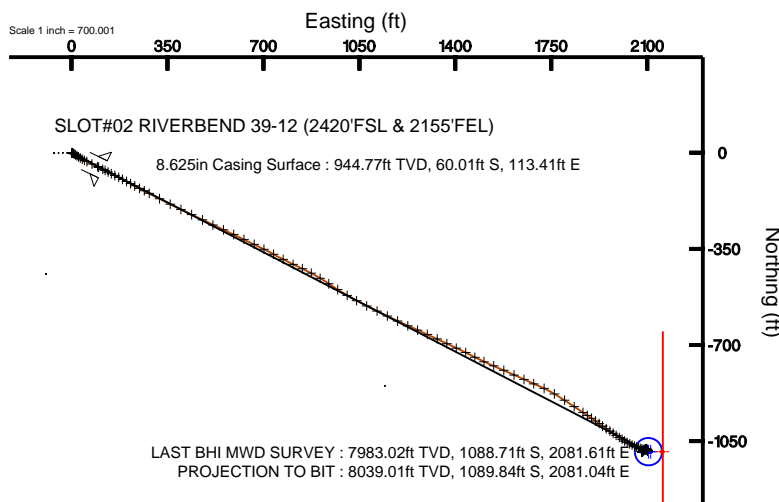
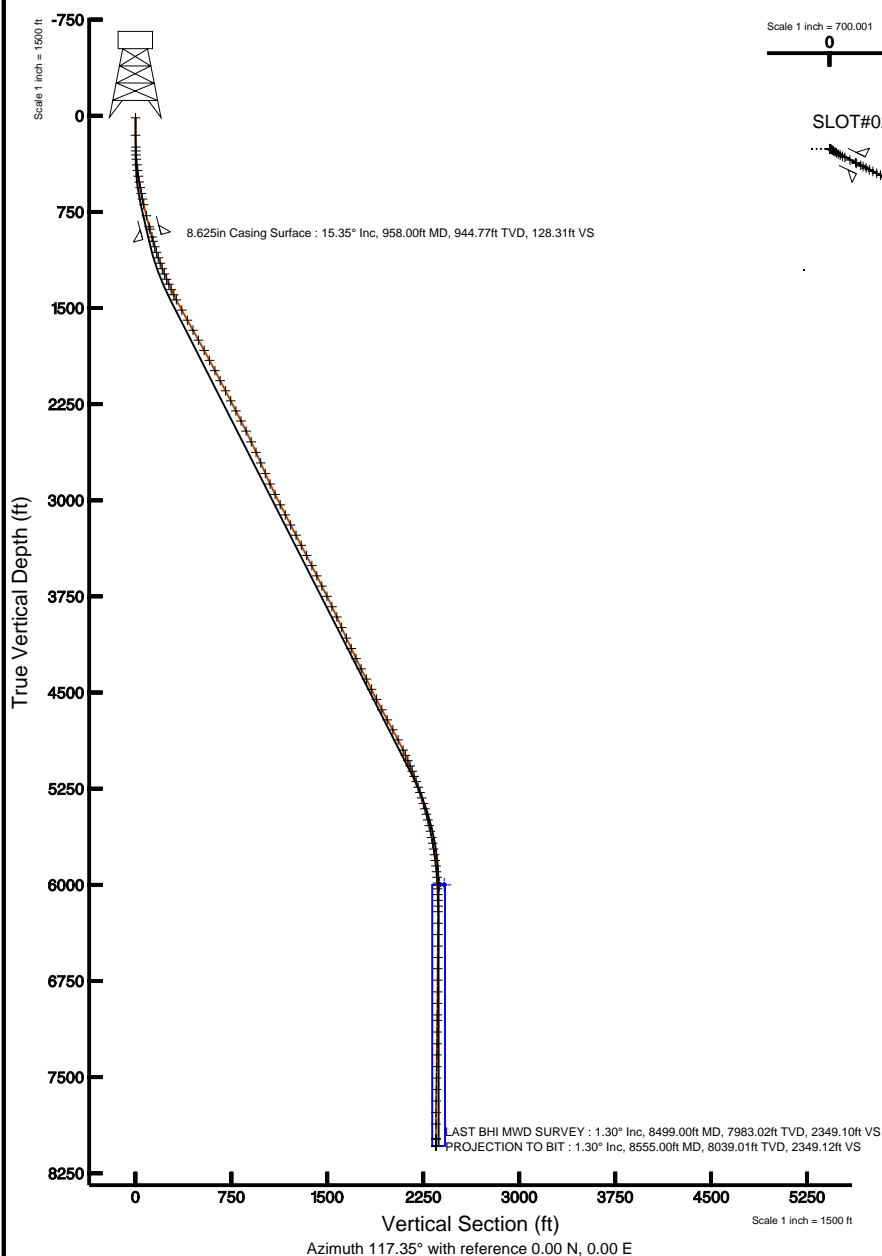


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#02 RIVERBEND 39-12 (2420'FSL & 2155'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: RIVERBEND 39-12
 Facility: SEC.12-T1N-R67W Wellbore: RIVERBEND 39-12 PWB



Plot reference wellpath is RIVERBEND 39-12 (REV-8.0) PWB	
True vertical depths are referenced to XTREME 15 (RKB)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 15 (RKB)	North Reference: True north
XTREME 15 (RKB) to Mean Sea Level: 4928 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.12-T1N-R67W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdam on 2/3/2011



BGGM (1945.0 to 2012.0) Dip: 66.80° Field: 53021.9 nT
 Magnetic North is 8.91 degrees East of True North (at 12/6/2010)

To correct azimuth from Magnetic to True add 8.91 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 8.91 = 98.91



Actual Wellpath Report

RIVERBEND 39-12 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#02 RIVERBEND 39-12 (2420'FSL & 2155'FEL)
Area	COLORADO	Well	RIVERBEND 39-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 39-12 AWB
Facility	SEC.12-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	0.999962	Report Generated	2/3/2011 at 9:48:32 AM
Convergence at slot	0.43° East	Database/Source file	Denver Server/RIVERBEND_39-12_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	-15.95	3185420.42	1267204.97	40°03'53.878"N	104°50'15.036"W
Facility Reference Pt			3185436.38	1267205.09	40°03'53.878"N	104°50'14.831"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 15 (RKB) to Facility Vertical Datum	4928.00ft
Horizontal Reference Pt	Slot	XTREME 15 (RKB) to Mean Sea Level	4928.00ft
Vertical Reference Pt	XTREME 15 (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 15 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	117.35°



Actual Wellpath Report

RIVERBEND 39-12 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#02 RIVERBEND 39-12 (2420'FSL & 2155'FEL)
Area	COLORADO	Well	RIVERBEND 39-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 39-12 AWB
Facility	SEC.12-T1N-R67W		

WELLPATH DATA (124 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	65.900	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	65.900	15.00	0.00	0.00	0.00	0.00	
151.00	0.400	65.900	151.00	0.30	0.19	0.43	0.29	
243.00	1.500	113.700	242.99	1.70	-0.16	1.83	1.38	
274.00	2.300	111.600	273.97	2.72	-0.55	2.78	2.59	
305.00	3.300	117.500	304.93	4.23	-1.19	4.15	3.35	
338.00	4.400	123.900	337.86	6.44	-2.34	6.04	3.57	
383.00	6.200	122.100	382.66	10.58	-4.59	9.53	4.02	
427.00	7.500	122.800	426.35	15.80	-7.41	13.96	2.96	
472.00	8.300	124.200	470.92	21.95	-10.83	19.12	1.83	
517.00	9.200	122.500	515.40	28.76	-14.58	24.84	2.08	
562.00	10.300	121.800	559.74	36.35	-18.64	31.29	2.46	
608.00	11.200	119.300	604.94	44.92	-22.99	38.68	2.20	
653.00	12.000	117.900	649.02	53.96	-27.32	46.63	1.88	
698.00	13.000	116.500	692.95	63.70	-31.77	55.29	2.32	
786.00	14.200	115.400	778.48	84.39	-40.81	73.90	1.39	
876.00	14.900	115.800	865.60	106.99	-50.58	94.29	0.79	
895.00	14.900	115.800	883.96	111.87	-52.71	98.69	0.00	
993.00	15.600	117.500	978.51	137.64	-64.28	121.72	0.85	
1038.00	16.700	117.900	1021.73	150.16	-70.10	132.80	2.46	
1083.00	17.800	116.100	1064.70	163.50	-76.15	144.69	2.72	
1128.00	19.400	115.800	1107.35	177.85	-82.43	157.60	3.56	
1173.00	20.300	117.200	1149.68	193.13	-89.25	171.27	2.26	
1218.00	21.100	117.500	1191.77	209.03	-96.56	185.40	1.79	
1263.00	21.900	118.300	1233.64	225.53	-104.28	199.97	1.89	
1307.00	23.100	117.200	1274.29	242.36	-112.11	214.87	2.89	
1350.00	24.500	119.000	1313.63	259.71	-120.29	230.18	3.67	
1396.00	25.200	117.200	1355.38	279.04	-129.39	247.23	2.24	
1441.00	26.400	116.800	1395.89	298.62	-138.28	264.68	2.69	
1486.00	27.500	117.200	1436.00	319.02	-147.54	282.85	2.48	
1576.00	28.700	117.500	1515.39	361.41	-167.02	320.50	1.34	
1667.00	29.400	116.800	1594.94	405.59	-187.18	359.82	0.86	
1756.00	28.900	116.100	1672.67	448.94	-206.49	398.63	0.68	
1845.00	29.300	115.400	1750.44	492.20	-225.29	437.62	0.59	
1936.00	28.700	116.100	1830.03	536.30	-244.46	477.35	0.76	
2025.00	28.000	115.800	1908.35	578.55	-262.95	515.35	0.80	
2115.00	28.000	113.000	1987.82	620.74	-280.40	553.82	1.46	
2204.00	27.400	116.100	2066.63	662.05	-297.58	591.45	1.75	
2293.00	28.000	115.100	2145.43	703.40	-315.45	628.76	0.85	
2382.00	27.300	116.500	2224.26	744.68	-333.42	665.94	1.07	
2470.00	26.500	116.800	2302.74	784.49	-351.27	701.53	0.92	
2558.00	27.400	117.900	2381.18	824.37	-369.60	736.95	1.17	
2646.00	26.200	118.600	2459.73	864.04	-388.38	771.90	1.41	
2739.00	25.000	115.100	2543.60	904.21	-406.54	807.72	2.08	
2829.00	24.400	114.400	2625.37	941.78	-422.29	841.88	0.74	



Actual Wellpath Report

RIVERBEND 39-12 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#02 RIVERBEND 39-12 (2420'FSL & 2155'FEL)
Area	COLORADO	Well	RIVERBEND 39-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 39-12 AWB
Facility	SEC.12-T1N-R67W		

WELLPATH DATA (124 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2919.00	23.600	118.300	2707.59	978.36	-438.51	874.67	1.97	
3010.00	24.300	122.100	2790.76	1015.23	-457.10	906.57	1.86	
3100.00	24.900	122.100	2872.59	1052.57	-477.01	938.31	0.67	
3190.00	26.200	123.700	2953.79	1091.20	-498.10	970.89	1.64	
3281.00	26.500	120.000	3035.34	1131.45	-519.40	1005.19	1.83	
3369.00	27.300	117.900	3113.82	1171.24	-538.66	1040.03	1.41	
3458.00	28.000	117.500	3192.66	1212.54	-557.86	1076.60	0.81	
3548.00	27.700	115.100	3272.23	1254.57	-576.48	1114.28	1.29	
3637.00	28.100	116.500	3350.89	1296.20	-594.61	1151.77	0.86	
3726.00	27.800	115.400	3429.51	1337.90	-612.87	1189.28	0.67	
3816.00	26.300	114.700	3509.66	1378.79	-630.20	1226.35	1.70	
3905.00	26.000	112.600	3589.55	1417.93	-645.94	1262.27	1.09	
3994.00	26.100	114.400	3669.51	1456.92	-661.52	1298.11	0.90	
4083.00	26.500	115.100	3749.30	1496.32	-678.03	1333.92	0.57	
4173.00	25.600	117.500	3830.16	1535.83	-695.53	1369.35	1.54	
4262.00	24.800	112.600	3910.70	1573.66	-711.58	1403.65	2.51	
4352.00	24.700	117.500	3992.44	1611.28	-727.52	1437.75	2.28	
4443.00	24.100	117.900	4075.31	1648.87	-744.99	1471.04	0.68	
4532.00	25.500	113.300	4156.11	1686.15	-761.08	1504.70	2.68	
4620.00	26.200	112.600	4235.30	1724.41	-776.03	1540.03	0.87	
4709.00	27.400	115.400	4314.74	1764.46	-792.37	1576.67	1.96	
4799.00	27.200	113.300	4394.72	1805.67	-809.39	1614.27	1.09	
4888.00	26.000	114.700	4474.30	1845.45	-825.59	1650.68	1.52	
4976.00	26.800	113.300	4553.12	1884.51	-841.49	1686.42	1.15	
5067.00	27.100	114.700	4634.24	1925.68	-858.27	1724.10	0.77	
5157.00	29.400	121.100	4713.54	1968.22	-878.25	1761.65	4.22	
5246.00	29.200	122.800	4791.15	2011.63	-901.30	1798.60	0.96	
5335.00	27.200	124.200	4869.58	2053.44	-924.50	1833.68	2.37	
5424.00	25.000	123.200	4949.50	2092.35	-946.23	1866.24	2.52	
5469.00	24.400	124.600	4990.39	2111.03	-956.71	1881.85	1.86	
5514.00	23.500	123.900	5031.51	2129.16	-967.00	1896.95	2.10	
5559.00	22.500	124.600	5072.93	2146.62	-976.89	1911.48	2.30	
5603.00	21.500	126.300	5113.73	2162.94	-986.44	1924.91	2.69	
5646.00	21.000	126.000	5153.81	2178.34	-995.64	1937.50	1.19	
5691.00	20.900	123.900	5195.83	2194.28	-1004.85	1950.68	1.68	
5737.00	19.700	123.900	5238.97	2210.14	-1013.76	1963.93	2.61	
5780.00	18.400	124.200	5279.62	2224.08	-1021.61	1975.56	3.03	
5825.00	17.600	124.200	5322.42	2237.88	-1029.43	1987.06	1.78	
5871.00	16.600	124.200	5366.38	2251.31	-1037.03	1998.25	2.17	
5914.00	15.700	123.500	5407.68	2263.20	-1043.70	2008.18	2.14	
5958.00	14.300	121.400	5450.18	2274.54	-1049.81	2017.78	3.41	
6003.00	13.600	117.500	5493.86	2285.37	-1055.15	2027.22	2.60	
6049.00	12.900	117.200	5538.63	2295.91	-1060.00	2036.58	1.53	
6094.00	12.100	117.900	5582.57	2305.65	-1064.50	2045.22	1.81	
6144.00	10.700	113.000	5631.58	2315.52	-1068.77	2054.12	3.40	



Actual Wellpath Report

RIVERBEND 39-12 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#02 RIVERBEND 39-12 (2420'FSL & 2155'FEL)
Area	COLORADO	Well	RIVERBEND 39-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 39-12 AWB
Facility	SEC.12-T1N-R67W		

WELLPATH DATA (124 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
6189.00	10.300	113.300	5675.83	2323.70	-1071.99	2061.66	0.90	
6235.00	8.700	109.100	5721.19	2331.25	-1074.75	2068.73	3.79	
6280.00	7.900	109.500	5765.72	2337.68	-1076.90	2074.86	1.78	
6325.00	7.400	108.100	5810.32	2343.60	-1078.83	2080.53	1.19	
6368.00	6.800	103.100	5852.99	2348.80	-1080.27	2085.64	2.00	
6414.00	5.600	97.200	5898.72	2353.55	-1081.17	2090.52	2.95	
6457.00	4.200	99.600	5941.56	2357.02	-1081.69	2094.15	3.29	
6502.00	3.400	97.500	5986.47	2359.84	-1082.14	2097.10	1.80	
6548.00	2.600	110.500	6032.40	2362.16	-1082.69	2099.43	2.27	
6592.00	2.100	125.300	6076.37	2363.95	-1083.50	2101.02	1.78	
6637.00	1.600	156.200	6121.34	2365.26	-1084.55	2101.95	2.44	
6682.00	1.100	219.500	6166.33	2365.66	-1085.46	2101.93	3.29	
6726.00	0.600	240.900	6210.33	2365.44	-1085.90	2101.46	1.33	
6816.00	0.300	12.400	6300.33	2365.12	-1085.90	2101.10	0.92	
6905.00	0.400	345.000	6389.33	2364.85	-1085.37	2101.07	0.22	
6995.00	0.500	8.900	6479.32	2364.51	-1084.68	2101.05	0.23	
7083.00	0.600	6.500	6567.32	2364.23	-1083.84	2101.16	0.12	
7170.00	0.600	336.600	6654.31	2363.71	-1082.97	2101.03	0.36	
7260.00	0.800	311.300	6744.31	2362.74	-1082.12	2100.37	0.40	
7351.00	0.400	312.000	6835.30	2361.81	-1081.49	2099.66	0.44	
7441.00	1.100	344.700	6925.29	2360.93	-1080.45	2099.20	0.88	
7531.00	0.500	303.200	7015.29	2359.95	-1079.40	2098.64	0.89	
7574.00	0.700	304.200	7058.28	2359.50	-1079.15	2098.26	0.47	
7665.00	0.900	300.400	7149.27	2358.24	-1078.48	2097.19	0.23	
7756.00	1.000	272.600	7240.26	2356.80	-1078.08	2095.78	0.51	
7844.00	1.900	230.000	7328.24	2355.54	-1078.98	2093.89	1.53	
7935.00	2.000	226.900	7419.18	2354.43	-1081.04	2091.58	0.16	
8025.00	1.800	227.200	7509.13	2353.42	-1083.07	2089.40	0.22	
8113.00	1.700	244.800	7597.09	2352.16	-1084.56	2087.20	0.62	
8203.00	1.100	245.500	7687.07	2350.82	-1085.49	2085.21	0.67	
8293.00	0.900	245.200	7777.05	2349.85	-1086.15	2083.78	0.22	
8383.00	0.800	220.900	7867.04	2349.27	-1086.92	2082.73	0.41	
8499.00	1.300	206.500	7983.02	2349.10	-1088.71	2081.61	0.48	LAST BHI MWD SURVEY
8555.00	1.300	206.500	8039.01	2349.12	-1089.84	2081.04	0.00	PROJECTION TO BIT



Actual Wellpath Report

RIVERBEND 39-12 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#02 RIVERBEND 39-12 (2420'FSL & 2155'FEL)
Area	COLORADO	Well	RIVERBEND 39-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 39-12 AWB
Facility	SEC.12-T1N-R67W		

HOLE & CASING SECTIONS Ref Wellbore: RIVERBEND 39-12 AWB Ref Wellpath: RIVERBEND 39-12 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	15.00	958.00	943.00	15.00	944.77	0.00	0.00	-60.01	113.41
8.625in Casing Surface	15.00	958.00	943.00	15.00	944.77	0.00	0.00	-60.01	113.41
7.875in Open Hole	958.00	8555.00	7597.00	944.77	8039.01	-60.01	113.41	-1089.84	2081.04

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
RIVERBEND 39-12 BHL ON PLAT (1320'FSL & 42'FEL, REV-1)		6000.00	-1088.78	2112.76	3187541.18	1266132.05	40°03'43.117"N	104°49'47.863"W	point
RIVERBEND 39-12 GEO TARGET 50' RADIUS (1320'FSL & 50'FEL, REV-2)		6000.00	-1088.78	2104.76	3187533.17	1266131.99	40°03'43.117"N	104°49'47.966"W	circle
RIVERBEND 39-12 HARDLINE 50'E OF GEO TARGET		6000.00	-1088.78	2154.76	3187583.17	1266132.36	40°03'43.117"N	104°49'47.323"W	point

WELLPATH COMPOSITION Ref Wellbore: RIVERBEND 39-12 AWB Ref Wellpath: RIVERBEND 39-12 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	895.00	NaviTrak (Standard)	BHI MWD SURVEY 12.25 <151-895>	RIVERBEND 39-12 AWB
895.00	8499.00	NaviTrak (Standard)	BHI MWD SURVEY 7.875 <993-8499>	RIVERBEND 39-12 AWB
8499.00	8555.00	Blind Drilling (std)	Projection to bit	RIVERBEND 39-12 AWB



Actual Wellpath Report

RIVERBEND 39-12 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#02 RIVERBEND 39-12 (2420'FSL & 2155'FEL)
Area	COLORADO	Well	RIVERBEND 39-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 39-12 AWB
Facility	SEC.12-T1N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8499.00	1.300	206.500	7983.02	LAST BHI MWD SURVEY
8555.00	1.300	206.500	8039.01	PROJECTION TO BIT