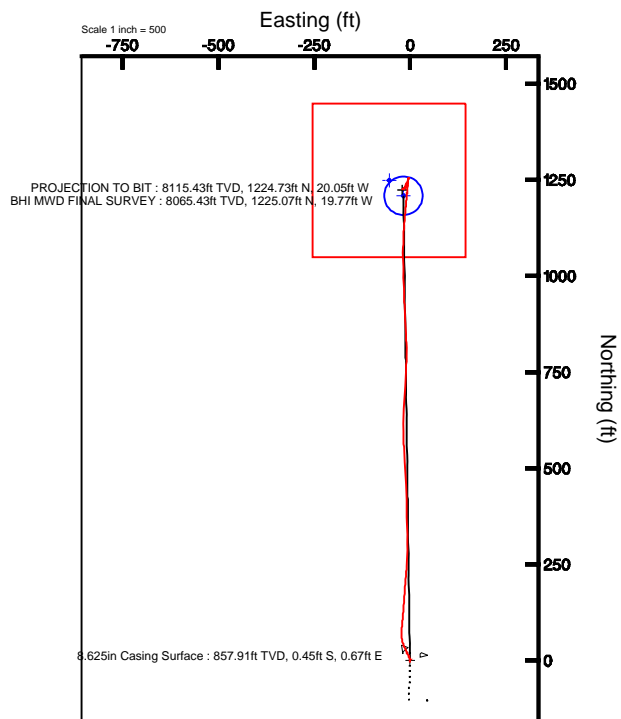
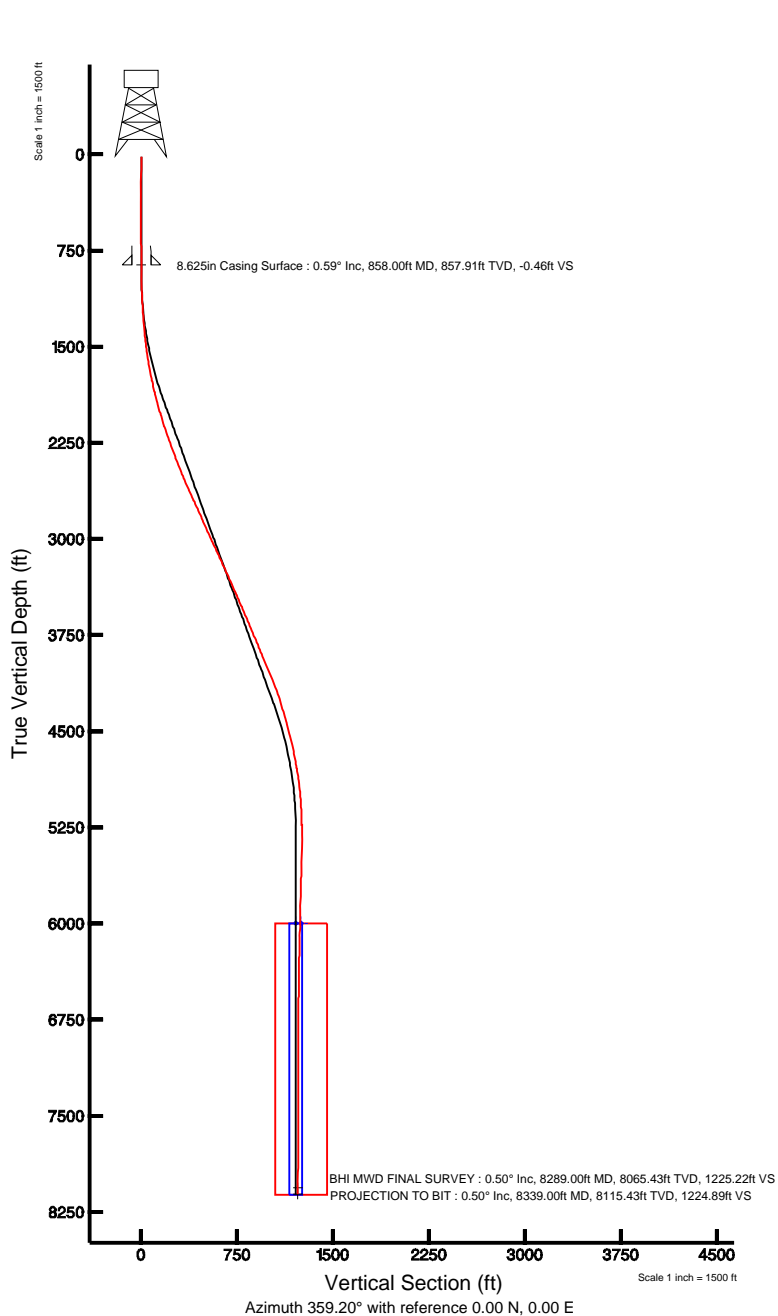


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#09 RASMUSSEN 10-29 (772'FSL & 1961'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: RASMUSSEN 10-29
 Facility: SEC.29-T2N-R68W Wellbore: RASMUSSEN 10-29 PWB

Plot reference wellpath is RASMUSSEN 10-29 (REV-C.0) PWP	
True vertical depths are referenced to XTREME 12 (RT)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 12 (RT)	North Reference: True north
XTREME 12 (RT) to Mean Sea Level: 4949 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.29-T2N-R68W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: wagnjam on 7/19/2010



BGGM (1945.0 to 2011.0) Dip: 66.83° Field: 53123.1 nT
 Magnetic North is 9.09 degrees East of True North (at 5/4/2010)

To correct azimuth from Magnetic to True add 9.09 degrees
 For example: If the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 9.09 = 99.09



Actual Wellpath Report

Rasmussen 10-29 AWB_awp

Page 1 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#09 RASMUSSEN 10-29 (772'FSL & 1961'FEL)
Area	COLORADO	Well	RASMUSSEN 10-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 10-29 AWB
Facility	SEC.29-T2N-R68W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Wagnjam
Scale	0.99996	Report Generated	7/19/2010 at 10:39:20 AM
Convergence at slot	0.31° East	Database/Source file	WA_Denver/Rasmussen_10-29_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-3810.47	1440.64	3132946.85	1281248.09	40°06'15.984"N	105°01'28.992"W
Facility Reference Pt			3131486.09	1285050.71	40°06'53.640"N	105°01'47.532"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 12 (RT) to Facility Vertical Datum	4949.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RT) to Mean Sea Level	4949.00ft
Vertical Reference Pt	XTREME 12 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 12 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.20°



Actual Wellpath Report

Rasmussen 10-29 AWB_awp

Page 2 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#09 RASMUSSEN 10-29 (772'FSL & 1961'FEL)
Area	COLORADO	Well	RASMUSSEN 10-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 10-29 AWB
Facility	SEC.29-T2N-R68W		

WELLPATH DATA (84 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	170.100	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	170.100	15.00	0.00	0.00	0.00	0.00	
152.00	1.900	170.100	151.97	-2.24	-2.24	0.39	1.39	
245.00	1.100	180.300	244.94	-4.66	-4.65	0.65	0.90	
339.00	0.100	28.100	338.94	-5.49	-5.48	0.68	1.27	
447.00	0.700	2.410	446.93	-4.75	-4.74	0.76	0.57	
536.00	0.700	337.500	535.93	-3.70	-3.69	0.57	0.34	
874.00	0.600	33.400	873.91	-0.32	-0.31	0.76	0.18	
964.00	0.900	348.700	963.90	0.77	0.78	0.88	0.70	
1052.00	1.900	333.200	1051.87	2.76	2.76	0.08	1.20	
1142.00	3.200	339.600	1141.78	6.47	6.45	-1.46	1.48	
1232.00	4.200	333.900	1231.60	11.81	11.76	-3.79	1.18	
1323.00	5.500	332.500	1322.27	18.72	18.62	-7.27	1.43	
1413.00	6.500	335.300	1411.77	27.23	27.08	-11.39	1.16	
1503.00	8.000	337.500	1501.05	37.71	37.49	-15.92	1.69	
1594.00	9.000	346.600	1591.06	50.54	50.27	-19.99	1.84	
1683.00	10.600	357.800	1678.76	65.52	65.22	-21.92	2.79	
1771.00	12.600	5.900	1764.97	83.14	82.86	-21.24	2.93	
1861.00	13.600	4.900	1852.62	103.42	103.17	-19.33	1.14	
1951.00	15.200	4.500	1939.79	125.70	125.47	-17.50	1.78	
2041.00	16.700	4.900	2026.32	150.32	150.12	-15.47	1.67	
2131.00	18.300	3.500	2112.16	177.28	177.11	-13.50	1.84	
2222.00	19.400	4.200	2198.28	206.58	206.44	-11.52	1.23	
2310.00	20.100	4.800	2281.10	236.19	236.09	-9.19	0.83	
2402.00	21.200	2.100	2367.19	268.54	268.47	-7.25	1.58	
2490.00	21.700	359.300	2449.09	300.70	300.63	-6.87	1.29	
2581.00	23.100	359.200	2533.23	335.38	335.31	-7.32	1.54	
2670.00	24.300	359.200	2614.72	371.15	371.08	-7.82	1.35	
2760.00	24.900	359.200	2696.55	408.62	408.54	-8.35	0.67	
2851.00	24.400	357.800	2779.26	446.56	446.48	-9.34	0.84	
2941.00	23.800	356.400	2861.41	483.29	483.18	-11.19	0.92	
3030.00	23.900	356.400	2942.81	519.23	519.09	-13.45	0.11	
3120.00	25.000	356.400	3024.74	556.44	556.27	-15.79	1.22	
3210.00	25.200	359.300	3106.25	594.59	594.41	-17.22	1.38	
3301.00	24.300	1.000	3188.89	632.68	632.50	-17.13	1.26	
3391.00	24.900	4.500	3270.72	670.06	669.91	-15.32	1.75	
3482.00	24.300	4.500	3353.46	707.78	707.67	-12.34	0.66	
3570.00	23.700	2.400	3433.85	743.47	743.40	-10.18	1.19	
3659.00	23.600	1.400	3515.38	779.13	779.08	-9.00	0.46	
3747.00	23.400	358.900	3596.08	814.21	814.16	-8.90	1.16	
3838.00	23.000	356.800	3679.73	850.04	849.98	-10.24	1.01	
3927.00	22.900	356.400	3761.68	884.71	884.62	-12.30	0.21	
4018.00	22.100	358.200	3845.75	919.51	919.40	-13.95	1.16	
4109.00	22.800	357.800	3929.86	954.25	954.13	-15.17	0.79	
4198.00	23.500	357.800	4011.69	989.23	989.09	-16.51	0.79	



Actual Wellpath Report

Rasmussen 10-29 AWB_awp

Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#09 RASMUSSEN 10-29 (772'FSL & 1961'FEL)
Area	COLORADO	Well	RASMUSSEN 10-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 10-29 AWB
Facility	SEC.29-T2N-R68W		

WELLPATH DATA (84 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4288.00	22.800	359.300	4094.44	1024.61	1024.46	-17.41	1.02	
4378.00	19.800	359.600	4178.29	1057.29	1057.15	-17.73	3.34	
4468.00	17.400	1.700	4263.58	1085.99	1085.85	-17.44	2.77	
4557.00	16.400	3.100	4348.74	1111.82	1111.70	-16.36	1.21	
4648.00	15.400	4.500	4436.25	1136.66	1136.57	-14.72	1.18	
4736.00	15.000	5.200	4521.18	1159.63	1159.56	-12.77	0.50	
4826.00	12.900	5.900	4608.52	1181.19	1181.15	-10.68	2.34	
4916.00	10.800	4.900	4696.59	1199.56	1199.55	-8.93	2.34	
5006.00	9.600	4.500	4785.17	1215.42	1215.43	-7.62	1.34	
5096.00	8.300	6.300	4874.07	1229.34	1229.37	-6.32	1.48	
5186.00	5.900	8.700	4963.38	1240.35	1240.40	-4.91	2.69	
5276.00	4.000	358.500	5053.04	1248.05	1248.11	-4.29	2.32	
5366.00	2.400	3.500	5142.89	1253.07	1253.13	-4.26	1.80	
5456.00	1.600	15.400	5232.84	1256.16	1256.23	-3.81	1.00	
5547.00	0.200	69.200	5323.83	1257.43	1257.51	-3.32	1.64	
5637.00	0.700	183.500	5413.82	1256.94	1257.01	-3.21	0.89	
5725.00	1.600	194.000	5501.81	1255.21	1255.29	-3.54	1.05	
5816.00	1.900	190.800	5592.76	1252.51	1252.57	-4.13	0.35	
5906.00	1.900	193.700	5682.71	1249.60	1249.66	-4.76	0.11	
5996.00	1.500	204.900	5772.67	1247.10	1247.14	-5.61	0.58	
6086.00	1.300	208.800	5862.65	1245.15	1245.18	-6.60	0.25	
6177.00	1.100	208.100	5953.63	1243.48	1243.50	-7.51	0.22	
6267.00	1.700	202.800	6043.60	1241.50	1241.51	-8.43	0.68	
6402.00	1.600	204.200	6178.54	1237.96	1237.94	-9.98	0.08	
6538.00	1.300	203.500	6314.50	1234.83	1234.80	-11.37	0.22	
6673.00	0.800	189.400	6449.48	1232.51	1232.46	-12.14	0.41	
6808.00	0.500	204.900	6584.47	1231.05	1231.00	-12.54	0.26	
6943.00	0.400	203.900	6719.46	1230.09	1230.03	-12.98	0.07	
7076.00	0.200	207.700	6852.46	1229.47	1229.40	-13.27	0.15	
7209.00	0.300	228.110	6985.46	1229.04	1228.96	-13.64	0.10	
7344.00	0.300	248.900	7120.46	1228.68	1228.60	-14.23	0.08	
7479.00	0.400	254.800	7255.46	1228.44	1228.35	-15.02	0.08	
7614.00	0.400	208.800	7390.45	1227.91	1227.81	-15.70	0.23	
7749.00	0.400	212.300	7525.45	1227.11	1227.00	-16.18	0.02	
7884.00	0.400	249.600	7660.45	1226.56	1226.44	-16.87	0.19	
8019.00	0.400	275.200	7795.44	1226.45	1226.32	-17.78	0.13	
8154.00	0.600	233.400	7930.44	1226.08	1225.94	-18.82	0.30	
8289.00	0.500	220.000	8065.43	1225.22	1225.07	-19.77	0.12	BHI MWD FINAL SURVEY
8339.00	0.500	220.000	8115.43	1224.89	1224.73	-20.05	0.00	PROJECTION TO BIT



Actual Wellpath Report

Rasmussen 10-29 AWB_awp

Page 4 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#09 RASMUSSEN 10-29 (772'FSL & 1961'FEL)
Area	COLORADO	Well	RASMUSSEN 10-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 10-29 AWB
Facility	SEC.29-T2N-R68W		

HOLE & CASING SECTIONS Ref Wellbore: Rasmussen 10-29 AWB Ref Wellpath: Rasmussen 10-29 AWB_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	858.00	843.00	15.00	857.91	0.00	0.00	-0.45	0.67
8.625in Casing Surface	15.00	858.00	843.00	15.00	857.91	0.00	0.00	-0.45	0.67
7.875in Open Hole	858.00	8339.00	7481.00	857.91	8115.43	-0.45	0.67	1224.73	-20.05

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
RASMUSSEN 10-29 GEO TARGET 50' RADIUS (1980'FSL & 1980'FEL, REV-1)		6000.00	1209.45	-16.78	3132923.58	1282457.38	40°06'27.936"N	105°01'29.208"W	circle
RASMUSSEN 10-29 LEGAL BOX (160'S,240'N,163'E,237'W OF GEO TARGET)		6000.00	1249.45	-53.78	3132886.38	1282497.18	40°06'28.331"N	105°01'29.684"W	square

WELLPATH COMPOSITION Ref Wellbore: Rasmussen 10-29 AWB Ref Wellpath: Rasmussen 10-29 AWB_awp				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	874.00	NaviTrak (Standard)	BHI MWD NAVI 12.25" HOLE <0-874>	Rasmussen 10-29 AWB
874.00	8289.00	NaviTrak (Standard)	BHI MWD NAVI 7.875" HOLE <964-8289>	Rasmussen 10-29 AWB
8289.00	8339.00	Blind Drilling (std)	Projection to bit	Rasmussen 10-29 AWB



Actual Wellpath Report

Rasmussen 10-29 AWB_awp

Page 5 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#09 RASMUSSEN 10-29 (772'FSL & 1961'FEL)
Area	COLORADO	Well	RASMUSSEN 10-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 10-29 AWB
Facility	SEC.29-T2N-R68W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8289.00	0.500	220.000	8065.43	BHI MWD FINAL SURVEY
8339.00	0.500	220.000	8115.43	PROJECTION TO BIT