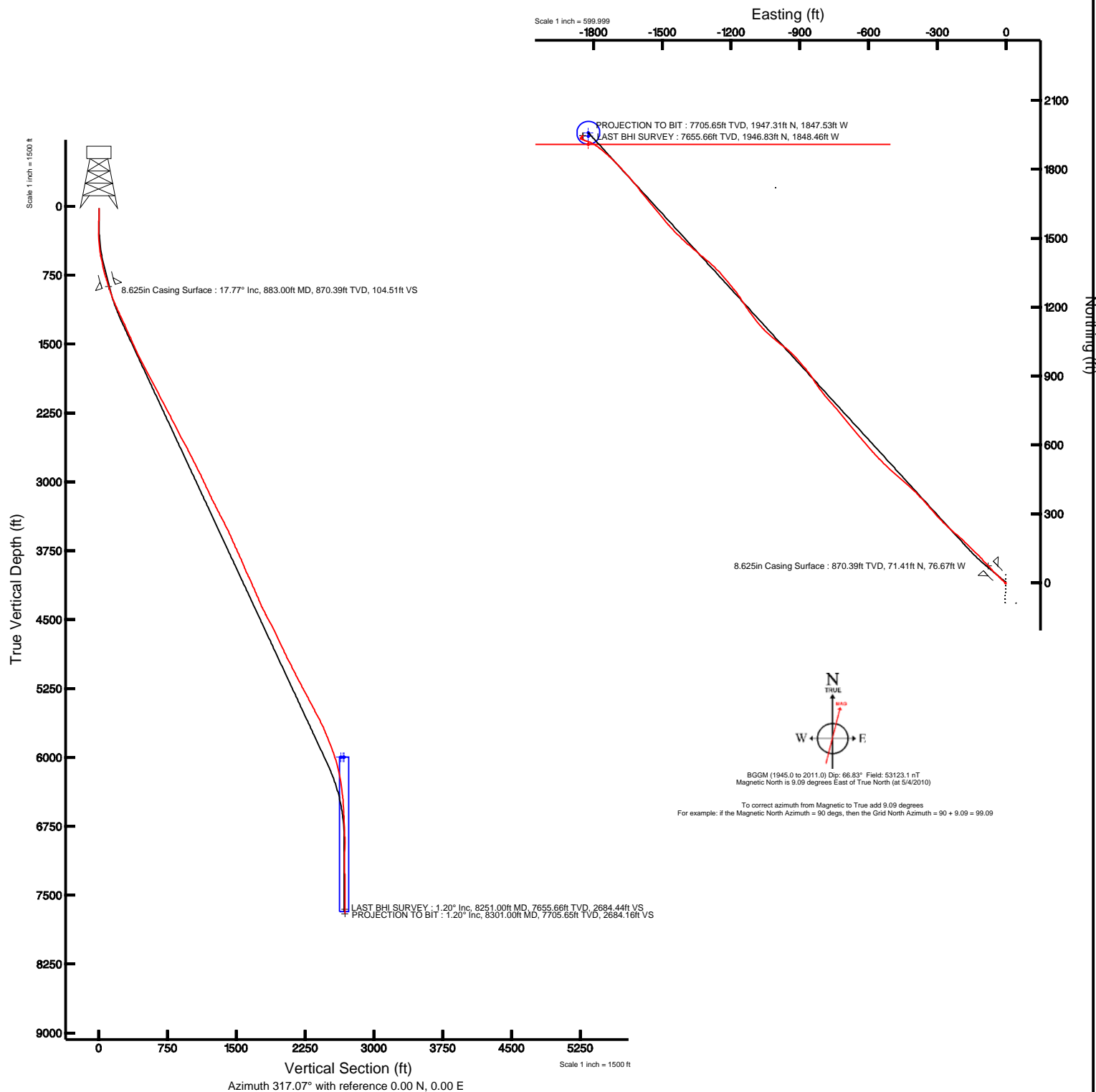


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#10 RASMUSSEN 22-29 (757'FSL & 1962'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: RASMUSSEN 22-29
 Facility: SEC.29-T2N-R68W Wellbore: RASMUSSEN 22-29 PWB



Plot reference wellpath is RASMUSSEN 22-29 (REV-B.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: 4950 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





Actual Wellpath Report

Rasmussen 22-29 AWB_awp

Page 1 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 RASMUSSEN 22-29 (757'FSL & 1962'FEL)
Area	COLORADO	Well	RASMUSSEN 22-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 22-29 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 1:40:06 PM
Convergence at slot	0.31° East	Database/Source file	WA_Denver/Rasmussen_22-29_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-3825.04	1440.64	3132946.93	1281233.52	40°06'15.840"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	4950.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RT) to Mean Sea Level	4950.00ft
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	317.07°



Actual Wellpath Report

Rasmussen 22-29 AWB_awp

Page 2 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 RASMUSSEN 22-29 (757'FSL & 1962'FEL)
Area	COLORADO	Well	RASMUSSEN 22-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 22-29 AWB
Facility	SEC.29-T2N-R68W		

WELLPATH DATA (95 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	170.800	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	170.800	15.00	0.00	0.00	0.00	0.00	
151.00	2.100	170.800	150.97	-2.07	-2.46	0.40	1.54	
244.00	1.100	191.600	243.93	-4.01	-5.02	0.49	1.23	
337.00	2.000	312.100	336.91	-2.91	-4.80	-0.89	2.93	
446.00	6.300	316.700	445.60	4.97	0.83	-6.41	3.95	
537.00	10.500	313.900	535.61	18.25	10.21	-15.81	4.64	
627.00	12.600	313.900	623.78	36.24	22.71	-28.79	2.33	
718.00	14.600	314.600	712.22	57.61	37.65	-44.11	2.21	
809.00	16.900	316.400	799.80	82.30	55.28	-61.40	2.58	
838.00	17.500	316.700	827.50	90.87	61.51	-67.30	2.09	
904.00	17.900	316.400	890.38	110.94	76.07	-81.10	0.62	
994.00	19.800	318.800	975.55	140.01	97.56	-100.68	2.28	
1084.00	23.600	314.300	1059.16	173.25	121.62	-123.63	4.61	
1175.00	25.100	314.300	1142.07	210.73	147.83	-150.48	1.65	
1265.00	25.400	313.500	1223.47	249.06	174.45	-178.14	0.50	
1355.00	24.100	311.400	1305.20	286.61	199.89	-205.93	1.74	
1445.00	24.200	312.100	1387.32	323.28	224.40	-233.40	0.34	
1535.00	24.000	312.900	1469.48	359.91	249.23	-260.49	0.43	
1625.00	24.500	315.650	1551.54	396.82	275.04	-286.95	1.37	
1715.00	26.700	320.200	1632.71	435.67	303.92	-312.94	3.28	
1806.00	27.700	317.100	1713.65	477.24	335.12	-340.43	1.91	
1893.00	27.900	318.100	1790.61	517.81	365.09	-367.79	0.58	
1983.00	28.400	314.200	1869.97	560.25	395.68	-397.19	2.12	
2074.00	27.600	311.100	1950.32	602.83	424.63	-428.60	1.82	
2164.00	27.800	309.700	2030.00	644.38	451.74	-460.46	0.76	
2254.00	28.100	312.100	2109.51	686.31	479.36	-492.33	1.29	
2344.00	27.700	315.300	2189.05	728.34	508.44	-522.77	1.72	
2436.00	27.800	314.300	2270.47	771.14	538.62	-553.17	0.52	
2526.00	26.900	318.500	2350.42	812.46	568.53	-581.68	2.37	
2614.00	26.900	320.900	2428.90	852.22	598.89	-607.43	1.23	
2705.00	27.500	318.100	2509.84	893.77	630.51	-634.44	1.55	
2794.00	28.800	319.200	2588.31	935.74	662.03	-662.18	1.57	
2882.00	28.100	320.600	2665.68	977.61	694.09	-689.18	1.10	
2971.00	26.600	321.300	2744.73	1018.40	725.84	-714.94	1.72	
3061.00	26.800	318.800	2825.14	1058.78	756.83	-740.91	1.27	
3151.00	27.100	318.800	2905.36	1099.55	787.52	-767.78	0.33	
3241.00	25.000	321.600	2986.22	1139.00	817.85	-793.10	2.70	
3331.00	24.800	324.100	3067.86	1176.70	848.05	-815.98	1.19	
3421.00	26.500	327.600	3148.99	1215.18	880.30	-837.81	2.53	
3510.00	26.900	322.300	3228.51	1254.75	913.00	-860.76	2.71	
3600.00	26.400	320.200	3308.95	1295.01	944.48	-886.02	1.18	
3690.00	27.700	317.400	3389.11	1335.91	975.25	-912.99	2.02	
3780.00	27.500	312.500	3468.88	1377.54	1004.69	-942.47	2.53	
3870.00	25.400	306.900	3549.46	1417.26	1030.32	-973.23	3.62	



Actual Wellpath Report

Rasmussen 22-29 AWB_awp

Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 RASMUSSEN 22-29 (757'FSL & 1962'FEL)
Area	COLORADO	Well	RASMUSSEN 22-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 22-29 AWB
Facility	SEC.29-T2N-R68W		

WELLPATH DATA (95 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3960.00	23.600	309.000	3631.36	1454.10	1053.25	-1002.67	2.22	
4049.00	25.100	312.800	3712.44	1490.57	1077.29	-1030.37	2.44	
4139.00	24.600	314.600	3794.11	1528.32	1103.42	-1057.72	1.01	
4228.00	22.900	321.600	3875.59	1564.10	1130.00	-1081.67	3.70	
4318.00	23.300	323.000	3958.37	1599.26	1157.94	-1103.26	0.75	
4407.00	26.200	324.400	4039.19	1636.27	1187.98	-1125.29	3.32	
4498.00	24.000	327.600	4121.59	1674.39	1219.95	-1146.91	2.84	
4587.00	24.000	325.100	4202.90	1710.11	1250.07	-1166.96	1.14	
4678.00	22.300	320.200	4286.58	1745.68	1278.52	-1188.61	2.82	
4768.00	25.000	321.300	4369.01	1781.70	1306.49	-1211.43	3.04	
4857.00	28.830	318.450	4448.36	1821.93	1337.24	-1237.43	4.54	
4947.00	28.500	315.300	4527.33	1865.08	1368.74	-1266.93	1.72	
5037.00	27.300	310.400	4606.88	1907.05	1397.38	-1297.76	2.87	
5126.00	24.790	309.000	4686.84	1945.81	1422.36	-1327.81	2.90	
5216.00	25.300	311.100	4768.38	1983.62	1446.87	-1356.96	1.14	
5306.00	25.200	310.700	4849.78	2021.78	1472.01	-1385.98	0.22	
5396.00	27.400	313.500	4930.46	2061.50	1498.76	-1415.53	2.81	
5487.00	27.400	314.600	5011.25	2103.32	1527.88	-1445.63	0.56	
5577.00	26.000	319.900	5091.67	2143.72	1557.52	-1473.09	3.07	
5668.00	28.700	320.900	5172.49	2185.45	1589.74	-1499.72	3.01	
5758.00	27.700	320.900	5251.80	2227.88	1622.74	-1526.54	1.11	
5848.00	28.200	318.500	5331.31	2270.02	1654.90	-1553.83	1.37	
5938.00	28.000	322.000	5410.70	2312.32	1687.48	-1580.93	1.84	
6027.00	27.700	321.600	5489.40	2353.76	1720.15	-1606.64	0.40	
6116.00	27.600	318.500	5568.24	2394.99	1751.81	-1633.15	1.62	
6205.00	26.000	319.200	5647.67	2435.10	1782.02	-1659.56	1.83	
6296.00	22.200	316.000	5730.73	2472.24	1809.49	-1684.54	4.41	
6386.00	21.800	316.000	5814.18	2505.94	1833.75	-1707.96	0.44	
6476.00	21.000	312.100	5897.97	2538.72	1856.58	-1731.54	1.81	
6567.00	18.000	310.000	5983.75	2568.93	1876.55	-1754.41	3.38	
6657.00	15.900	307.200	6069.83	2594.88	1892.95	-1774.89	2.50	
6747.00	13.500	302.600	6156.88	2617.20	1906.06	-1793.56	2.96	
6838.00	11.200	297.400	6245.78	2635.81	1915.86	-1810.36	2.81	
6928.00	8.400	287.200	6334.46	2649.74	1921.82	-1824.40	3.65	
7019.00	6.600	286.500	6424.68	2660.01	1925.27	-1835.77	1.98	
7107.00	3.600	304.100	6512.32	2667.06	1928.26	-1842.91	3.81	
7198.00	3.000	295.600	6603.17	2672.06	1930.89	-1847.42	0.85	
7288.00	2.700	283.700	6693.06	2676.02	1932.41	-1851.60	0.74	
7377.00	3.300	283.300	6781.94	2679.90	1933.50	-1856.13	0.67	
7467.00	1.700	345.500	6871.87	2683.23	1935.39	-1858.99	3.25	
7557.00	2.000	69.900	6961.83	2683.79	1937.22	-1857.85	2.77	
7647.00	1.200	62.200	7051.80	2682.94	1938.20	-1855.54	0.92	
7737.00	1.200	55.100	7141.78	2682.56	1939.18	-1853.93	0.17	
7827.00	1.100	10.500	7231.76	2682.94	1940.56	-1853.00	0.98	
7917.00	1.000	59.400	7321.75	2683.29	1941.81	-1852.17	0.97	



Actual Wellpath Report

Rasmussen 22-29 AWB_awp

Page 4 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 RASMUSSEN 22-29 (757'FSL & 1962'FEL)
Area	COLORADO	Well	RASMUSSEN 22-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 22-29 AWB
Facility	SEC.29-T2N-R68W		

WELLPATH DATA (95 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8007.00	1.900	345.900	7411.72	2684.43	1943.66	-1851.86	2.09	
8098.00	1.100	65.000	7502.70	2685.48	1945.49	-1851.43	2.21	
8187.00	1.300	67.500	7591.68	2684.87	1946.24	-1849.72	0.23	
8251.00	1.200	62.500	7655.66	2684.44	1946.83	-1848.46	0.23	LAST BHI SURVEY
8301.00	1.200	62.500	7705.65	2684.16	1947.31	-1847.53	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: Rasmussen 22-29 AWB Ref Wellpath: Rasmussen 22-29 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	893.00	878.00	15.00	879.91	0.00	0.00	73.63	-78.78
8.625in Casing Surface	15.00	883.00	868.00	15.00	870.39	0.00	0.00	71.41	-76.67
7.875in Open Hole	883.00	8301.00	7418.00	870.39	7705.65	71.41	-76.67	1947.31	-1847.53

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
RASMUSSEN 22-29 GEO TARGET 50' RADIUS (2559'FNL & 1560'FWL, REV-2)		6000.00	1960.39	-1823.74	3131112.78	1283184.03	40°06'35.212"N	105°01'52.464"W	circle
RASMUSSEN 22-29 HARDLINE 50'S OF GEO TARGET		6000.00	1910.39	-1823.74	3131113.05	1283134.03	40°06'34.718"N	105°01'52.464"W	point
RASMUSSEN 22-29 ON PLAT (2600'FNL & 1560'FWL, REV-1)		6000.00	1945.39	-1823.74	3131112.86	1283169.03	40°06'35.064"N	105°01'52.464"W	point

WELLPATH COMPOSITION Ref Wellbore: Rasmussen 22-29 AWB Ref Wellpath: Rasmussen 22-29 AWB_awp				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	838.00	NaviTrak (Standard)	BHI MWD NAVI 12.25 HOLE <151-838>	Rasmussen 22-29 AWB
838.00	8251.00	NaviTrak (Standard)	BHI MWD NAVI 7.875 HOLE <904-8251>	Rasmussen 22-29 AWB
8251.00	8301.00	Blind Drilling (std)	Projection to bit	Rasmussen 22-29 AWB



Actual Wellpath Report

Rasmussen 22-29 AWB_awp

Page 5 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 RASMUSSEN 22-29 (757'FSL & 1962'FEL)
Area	COLORADO	Well	RASMUSSEN 22-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 22-29 AWB
Facility	SEC.29-T2N-R68W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8251.00	1.200	62.500	7655.66	LAST BHI SURVEY
8301.00	1.200	62.500	7705.65	PROJECTION TO BIT