



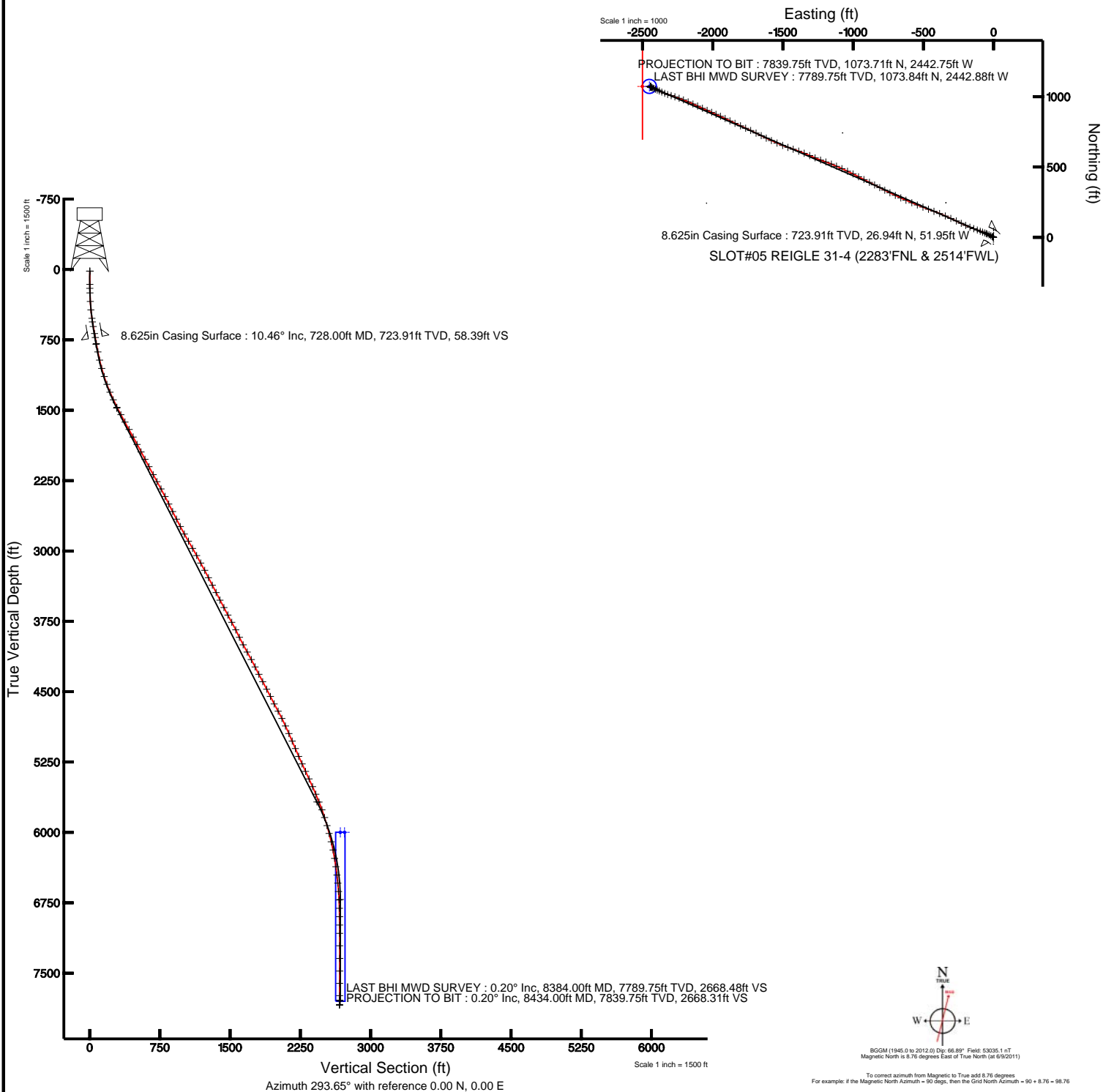
KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#05 REIGLE 31-4 (2283'FNL & 2514'FWL)
Field: WELD COUNTY (KERR MCGEE) Well: REIGLE 31-4
Facility: SEC.04-T2N-R65W Wellbore: REIGLE 31-4 PWB



INTEQ

Plot reference wellpath is REIGLE 31-4 (REV-A.0) PWP	
True vertical depths are referenced to XTREME 6 (RKB)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 6 (RKB)	North Reference: True north
XTREME 6 (RKB) to Mean Sea Level: 4877 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.04-T2N-R65W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdann on 6/10/2011





Actual Wellpath Report

REIGLE 31-4 AWP

Page 1 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 REIGLE 31-4 (2283'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 31-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 31-4 AWB
Facility	SEC.04-T2N-R65W		

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	0.999958	Report Generated	6/10/2011 at 5:01:03 PM
Convergence at slot	0.54° East	Database/Source file	WA_DENVER/REIGLE_31-4_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-63.75	-0.84	3232187.19	1305275.62	40°10'06.208"N	104°40'08.944"W
Facility Reference Pt			3232187.43	1305339.38	40°10'06.838"N	104°40'08.933"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 6 (RKB) to Facility Vertical Datum	4877.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RKB) to Mean Sea Level	4877.00ft
Vertical Reference Pt	XTREME 6 (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 6 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	293.65°



Actual Wellpath Report

REIGLE 31-4 AWP

Page 2 of 5



REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	REIGLE 31-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 31-4 AWP
Facility	SEC.04-T2N-R65W		

WELLPATH DATA (94 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	322.800	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	322.800	16.00	0.00	0.00	0.00	0.00	
157.00	0.600	322.800	157.00	0.64	0.59	-0.45	0.43	
249.00	1.200	307.600	248.99	2.00	1.56	-1.50	0.70	
340.00	3.000	295.700	339.92	5.31	3.17	-4.40	2.02	
430.00	5.500	300.300	429.67	11.94	6.37	-10.25	2.80	
520.00	8.500	298.500	518.99	22.86	11.72	-19.82	3.34	
609.00	9.800	296.000	606.85	36.98	18.18	-32.41	1.53	
685.00	10.700	293.600	681.64	50.50	23.84	-44.69	1.31	
795.00	10.100	291.100	789.83	70.35	31.40	-63.04	0.68	
884.00	10.600	291.100	877.38	86.32	37.16	-77.96	0.56	
974.00	13.000	292.500	965.47	104.71	44.01	-95.04	2.69	
1065.00	15.700	290.800	1053.63	127.25	52.30	-116.01	3.00	
1156.00	18.600	290.700	1140.57	154.04	61.81	-141.10	3.19	
1244.00	20.100	290.800	1223.60	183.16	72.14	-168.37	1.70	
1334.00	22.300	294.300	1307.51	215.69	84.66	-198.39	2.82	
1422.00	24.800	296.700	1388.17	250.82	99.83	-230.10	3.04	
1511.00	27.300	295.000	1468.13	289.87	116.84	-265.28	2.93	
1601.00	29.000	294.300	1547.48	332.32	134.54	-303.87	1.92	
1690.00	29.600	293.600	1625.09	375.88	152.22	-343.68	0.78	
1781.00	28.400	292.500	1704.68	419.99	169.50	-384.27	1.44	
1872.00	27.800	290.400	1784.96	462.81	185.18	-424.15	1.27	
1962.00	27.900	290.800	1864.53	504.80	199.97	-463.51	0.24	
2052.00	28.400	291.100	1943.89	547.21	215.16	-503.16	0.58	
2142.00	28.100	291.800	2023.17	589.78	230.73	-542.81	0.50	
2231.00	28.500	291.800	2101.53	631.95	246.40	-581.98	0.45	
2327.00	28.100	294.600	2186.06	677.45	264.32	-623.81	1.44	
2412.00	28.300	293.900	2260.97	717.61	280.82	-660.43	0.45	
2501.00	29.300	295.300	2338.96	760.48	298.67	-699.41	1.36	
2592.00	27.000	296.000	2419.19	803.38	317.24	-738.11	2.55	
2682.00	26.700	297.100	2499.49	843.98	335.41	-774.47	0.64	
2772.00	26.800	297.100	2579.86	884.41	353.86	-810.53	0.11	
2863.00	27.300	297.100	2660.90	925.72	372.72	-847.38	0.55	
2952.00	27.700	296.400	2739.85	966.76	391.21	-884.07	0.58	
3043.00	29.500	298.100	2819.74	1010.22	411.17	-922.79	2.17	
3131.00	30.200	297.100	2896.07	1053.92	431.46	-961.60	0.98	
3219.00	29.700	296.700	2972.31	1097.78	451.34	-1000.78	0.61	
3307.00	29.000	295.000	3049.02	1140.88	470.15	-1039.59	1.24	
3398.00	29.300	293.900	3128.50	1185.20	488.49	-1079.94	0.67	
3487.00	27.100	294.600	3206.93	1227.25	505.76	-1118.29	2.50	
3575.00	27.000	291.500	3285.30	1267.25	521.42	-1155.10	1.61	
3665.00	28.200	289.400	3365.06	1308.88	535.97	-1194.17	1.72	
3753.00	26.600	290.400	3443.19	1349.29	549.75	-1232.25	1.89	
3844.00	27.600	293.200	3524.20	1390.71	565.15	-1270.72	1.78	
3934.00	28.200	292.900	3603.74	1432.82	581.64	-1309.47	0.68	



Actual Wellpath Report

REIGLE 31-4 AWP

Page 3 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 REIGLE 31-4 (2283'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 31-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 31-4 AWP
Facility	SEC.04-T2N-R65W		

WELLPATH DATA (94 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4024.00	28.400	292.500	3682.98	1475.48	598.11	-1348.84	0.31	
4112.00	28.100	289.700	3760.50	1517.08	613.10	-1387.68	1.54	
4203.00	27.000	289.400	3841.18	1559.06	627.19	-1427.34	1.22	
4292.00	25.700	288.300	3920.94	1598.43	639.96	-1464.72	1.56	
4381.00	28.000	292.200	4000.34	1638.53	653.92	-1502.40	3.25	
4470.00	29.500	293.900	4078.37	1681.33	670.69	-1541.78	1.92	
4561.00	28.200	294.300	4158.07	1725.24	688.61	-1581.86	1.44	
4649.00	26.900	295.700	4236.09	1765.93	705.80	-1618.75	1.65	
4738.00	26.900	296.400	4315.46	1806.16	723.49	-1654.92	0.36	
4826.00	28.200	296.700	4393.48	1846.81	741.68	-1691.33	1.49	
4917.00	28.100	294.300	4473.72	1889.71	760.16	-1730.07	1.25	
5004.00	25.800	294.200	4551.27	1929.13	776.36	-1766.02	2.64	
5093.00	28.300	295.300	4630.53	1969.59	793.32	-1802.77	2.86	
5182.00	28.700	294.300	4708.74	2012.05	811.13	-1841.32	0.70	
5269.00	26.000	296.000	4786.01	2052.00	828.09	-1877.50	3.23	
5358.00	25.000	297.100	4866.34	2090.27	845.20	-1911.78	1.24	
5446.00	24.200	293.900	4946.36	2126.87	860.98	-1944.82	1.77	
5534.00	23.300	294.300	5026.90	2162.31	875.45	-1977.18	1.04	
5621.00	22.200	292.930	5107.13	2195.95	888.94	-2008.00	1.40	
5711.00	24.000	293.900	5189.92	2231.26	902.98	-2040.39	2.04	
5799.00	25.100	294.600	5269.96	2267.82	918.00	-2073.73	1.29	
5888.00	24.600	295.300	5350.72	2305.21	933.77	-2107.64	0.65	
5976.00	24.700	292.500	5430.70	2341.90	948.64	-2141.19	1.33	
6066.00	24.600	294.300	5512.50	2379.43	963.54	-2175.63	0.84	
6155.00	22.400	291.800	5594.12	2414.91	977.47	-2208.26	2.71	
6245.00	21.700	289.700	5677.53	2448.65	989.44	-2239.85	1.17	
6333.00	20.000	288.300	5759.77	2479.86	999.65	-2269.46	2.01	
6420.00	18.000	286.900	5842.03	2508.03	1008.23	-2296.45	2.36	
6510.00	15.100	288.700	5928.29	2533.52	1016.04	-2320.86	3.27	
6597.00	15.100	293.200	6012.29	2556.14	1024.13	-2342.01	1.35	
6688.00	14.300	294.600	6100.31	2579.23	1033.48	-2363.13	0.96	
6778.00	10.700	293.600	6188.16	2598.71	1041.46	-2380.89	4.01	
6869.00	9.900	293.600	6277.69	2614.98	1047.97	-2395.80	0.88	
6959.00	8.100	296.700	6366.58	2629.05	1053.92	-2408.56	2.07	
7048.00	6.500	295.700	6454.86	2640.35	1058.92	-2418.70	1.80	
7135.00	5.500	291.500	6541.38	2649.43	1062.58	-2427.02	1.25	
7225.00	4.100	290.400	6631.06	2656.96	1065.29	-2434.05	1.56	
7315.00	3.300	292.200	6720.88	2662.76	1067.39	-2439.46	0.90	
7404.00	1.800	302.700	6809.78	2666.70	1069.11	-2443.01	1.76	
7494.00	0.500	344.200	6899.77	2668.35	1070.25	-2444.31	1.63	
7583.00	0.400	352.600	6988.76	2668.75	1070.93	-2444.45	0.13	
7671.00	0.400	31.700	7076.76	2668.87	1071.50	-2444.33	0.30	
7803.00	0.400	350.900	7208.76	2669.05	1072.35	-2444.16	0.21	
7938.00	0.400	9.900	7343.75	2669.42	1073.28	-2444.15	0.10	
8073.00	0.400	12.300	7478.75	2669.62	1074.20	-2443.97	0.01	



Actual Wellpath Report

REIGLE 31-4 AWP

Page 4 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 REIGLE 31-4 (2283'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 31-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 31-4 AWB
Facility	SEC.04-T2N-R65W		

WELLPATH DATA (94 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8204.00	0.400	121.300	7609.75	2669.26	1074.41	-2443.48	0.50	
8336.00	0.200	150.800	7741.75	2668.62	1073.97	-2442.98	0.19	
8384.00	0.200	135.000	7789.75	2668.48	1073.84	-2442.88	0.11	LAST BHI MWD SURVEY
8434.00	0.200	135.000	7839.75	2668.31	1073.71	-2442.75	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: REIGLE 31-4 AWB Ref Wellpath: REIGLE 31-4 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	16.00	740.00	724.00	16.00	735.71	0.00	0.00	27.78	-53.96
8.625in Casing Surface	16.00	728.00	712.00	16.00	723.91	0.00	0.00	26.94	-51.95
7.875in Open Hole	728.00	8434.00	7706.00	723.91	7839.75	26.94	-51.95	1073.71	-2442.75

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
REIGLE 31-4 GEO TARGET 50' RADIUS (1210'FNL & 50'FWL, REV-1)		6000.00	1073.71	-2451.44	3229725.91	1306326.27	40°10'16.817"N	104°40'40.523"W	circle
REIGLE 31-4 HARDLINE 50'W OF GEO TARGET		6000.00	1073.71	-2501.44	3229675.91	1306325.80	40°10'16.817"N	104°40'41.167"W	point

WELLPATH COMPOSITION Ref Wellbore: REIGLE 31-4 AWB Ref Wellpath: REIGLE 31-4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	685.00	NaviTrak (Standard)	BHI NAVITRAK 12.25 HOLE <157-685>	REIGLE 31-4 AWB
685.00	8384.00	NaviTrak (Standard)	BHI NAVITRAK 7.875 HOLE <795-8384>	REIGLE 31-4 AWB
8384.00	8434.00	Blind Drilling (std)	Projection to bit	REIGLE 31-4 AWB



Actual Wellpath Report

REIGLE 31-4 AWP

Page 5 of 5



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Area	COLORADO	Well	REIGLE 31-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 31-4 AWB
Facility	SEC.04-T2N-R65W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8384.00	0.200	135.000	7789.75	LAST BHI MWD SURVEY
8434.00	0.200	135.000	7839.75	PROJECTION TO BIT