

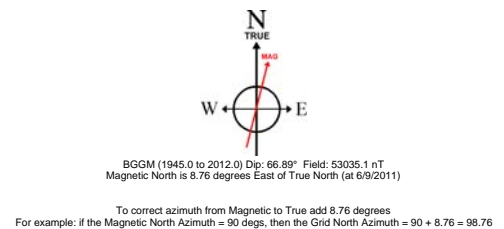
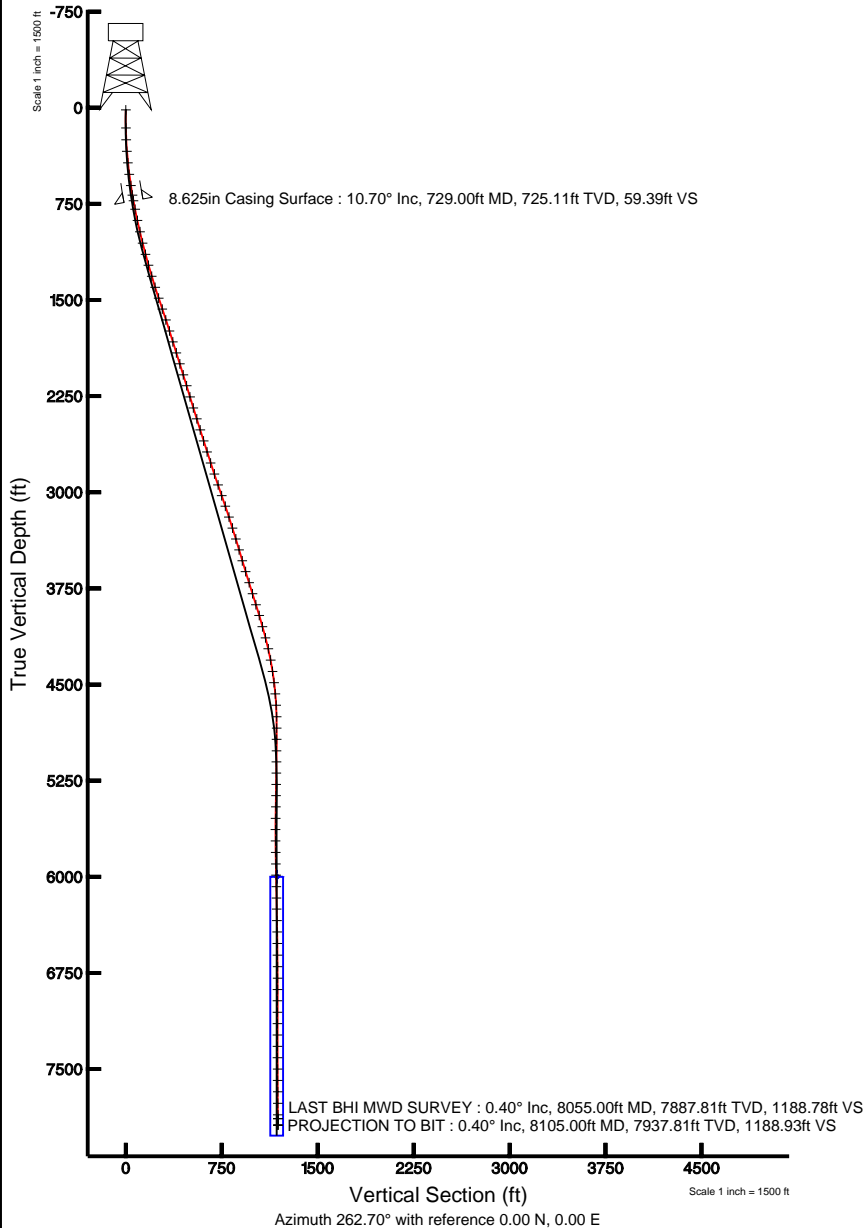
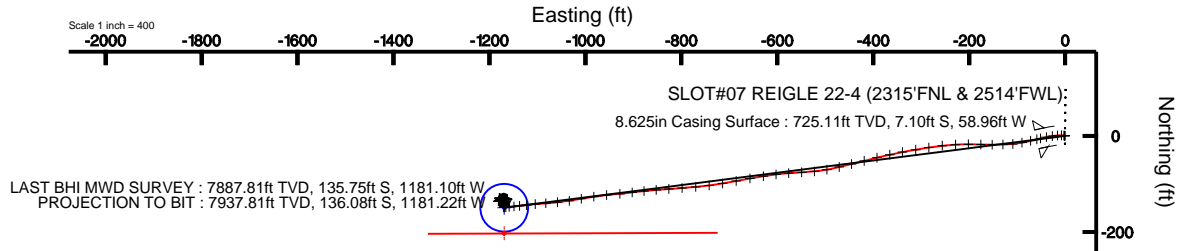


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#07 REIGLE 22-4 (2315'FNL & 2514'FWL)
Field: WELD COUNTY (KERR MCGEE) Well: REIGLE 22-4
Facility: SEC.04-T2N-R65W Wellbore: REIGLE 22-4 PWB



Plot reference wellpath is REIGLE 22-4 (REV-A.0) PWB	
True vertical depths are referenced to XTREME 6 (RXB)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 6 (RXB)	North Reference: True north
XTREME 6 (RXB) to Mean Sea Level: 4876 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: cookdamm on 6/10/2011





Actual Wellpath Report

REIGLE 22-4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 REIGLE 22-4 (2315'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 22-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 22-4 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 5:29:52 PM
Convergence at slot	0.54° East	Database/Source file	WA_DENVER/REIGLE_22-4_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-95.81	-1.12	3232187.21	1305243.56	40°10'05.891"N	104°40'08.947"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	4876.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RKB) to Mean Sea Level	4876.00ft
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	262.70°



Actual Wellpath Report

REIGLE 22-4 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 REIGLE 22-4 (2315'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 22-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 22-4 AWB
Facility	SEC.04-T2N-R65W		

WELLPATH DATA (93 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	295.300	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	295.300	16.00	0.00	0.00	0.00	0.00	
157.00	0.600	295.300	157.00	0.62	0.32	-0.67	0.43	
249.00	1.900	285.400	248.97	2.43	0.93	-2.57	1.43	
340.00	4.400	268.600	339.83	7.30	1.24	-7.52	2.90	
430.00	6.100	266.500	429.45	15.51	0.87	-15.74	1.90	
520.00	7.600	261.200	518.81	26.23	-0.34	-26.40	1.81	
609.00	8.900	258.400	606.88	38.98	-2.62	-38.96	1.53	
684.00	10.100	257.000	680.85	51.31	-5.27	-51.05	1.63	
797.00	11.600	257.000	791.83	72.47	-10.05	-71.78	1.33	
886.00	12.300	258.800	878.90	90.83	-13.91	-89.79	0.89	
976.00	12.600	264.400	966.79	110.21	-16.73	-108.97	1.38	
1067.00	13.500	268.600	1055.44	130.70	-17.96	-129.47	1.44	
1158.00	15.000	270.000	1143.64	152.95	-18.21	-151.86	1.69	
1246.00	16.300	271.800	1228.37	176.44	-17.83	-175.59	1.58	
1336.00	17.200	270.000	1314.55	202.11	-17.43	-201.53	1.15	
1426.00	17.700	267.200	1400.41	228.95	-18.10	-228.50	1.09	
1515.00	18.400	263.300	1485.04	256.48	-20.40	-255.96	1.57	
1605.00	18.300	260.900	1570.46	284.81	-24.29	-284.02	0.85	
1694.00	18.200	260.500	1654.98	312.66	-28.79	-311.53	0.18	
1785.00	17.500	259.500	1741.60	340.52	-33.63	-339.00	0.84	
1874.00	17.800	257.300	1826.41	367.43	-39.06	-365.43	0.82	
1964.00	17.800	256.300	1912.11	394.79	-45.34	-392.21	0.34	
2054.00	17.700	255.600	1997.82	422.04	-52.01	-418.83	0.26	
2144.00	17.400	256.300	2083.63	448.99	-58.59	-445.15	0.41	
2233.00	17.100	257.100	2168.63	475.24	-64.67	-470.84	0.43	
2324.00	16.500	258.400	2255.75	501.44	-70.25	-496.54	0.78	
2414.00	17.300	265.500	2341.87	527.55	-73.87	-522.40	2.46	
2503.00	17.800	266.500	2426.72	554.34	-75.74	-549.17	0.66	
2594.00	17.000	265.500	2513.56	581.51	-77.63	-576.32	0.94	
2684.00	17.100	263.000	2599.61	607.88	-80.28	-602.57	0.82	
2774.00	17.400	261.600	2685.56	634.57	-83.86	-629.01	0.57	
2865.00	18.800	259.500	2772.05	662.81	-88.52	-656.89	1.70	
2955.00	19.000	259.100	2857.20	691.92	-93.93	-685.54	0.26	
3045.00	18.400	260.500	2942.45	720.73	-99.05	-713.93	0.83	
3134.00	18.900	262.600	3026.78	749.18	-103.22	-742.08	0.94	
3221.00	19.000	264.800	3109.06	777.43	-106.32	-770.16	0.83	
3310.00	18.200	266.200	3193.41	805.78	-108.55	-798.46	1.03	
3400.00	17.500	265.800	3279.08	833.32	-110.48	-825.98	0.79	
3489.00	17.300	265.800	3364.01	859.89	-112.43	-852.52	0.22	
3578.00	16.000	263.300	3449.28	885.37	-114.83	-877.90	1.67	
3667.00	16.400	262.600	3534.74	910.20	-117.87	-902.54	0.50	
3755.00	17.800	265.100	3618.85	936.07	-120.62	-928.26	1.80	
3846.00	17.700	263.700	3705.52	963.80	-123.33	-955.87	0.48	
3936.00	16.900	262.600	3791.45	990.56	-126.52	-982.45	0.96	



Actual Wellpath Report

REIGLE 22-4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 REIGLE 22-4 (2315'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 22-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 22-4 AWB
Facility	SEC.04-T2N-R65W		

WELLPATH DATA (93 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4026.00	17.500	258.400	3877.43	1017.13	-130.92	-1008.67	1.53	
4114.00	15.900	262.300	3961.71	1042.38	-135.20	-1033.58	2.22	
4205.00	16.000	264.400	4049.21	1067.39	-138.09	-1058.42	0.64	
4295.00	15.500	265.500	4135.83	1091.80	-140.25	-1082.75	0.65	
4383.00	13.300	264.800	4221.06	1113.66	-142.09	-1104.56	2.51	
4473.00	10.300	262.600	4309.15	1132.05	-144.06	-1122.85	3.37	
4563.00	8.300	264.400	4397.96	1146.59	-145.73	-1137.30	2.25	
4651.00	7.100	264.400	4485.17	1158.38	-146.88	-1149.03	1.36	
4740.00	5.800	265.100	4573.60	1168.37	-147.80	-1158.98	1.46	
4828.00	3.400	260.500	4661.31	1175.42	-148.61	-1165.99	2.76	
4919.00	1.000	279.500	4752.24	1178.88	-148.93	-1169.43	2.72	
5007.00	0.600	26.700	4840.24	1179.36	-148.39	-1169.98	1.49	
5095.00	1.000	26.700	4928.23	1178.67	-147.29	-1169.43	0.45	
5184.00	1.100	16.200	5017.21	1177.90	-145.78	-1168.85	0.24	
5271.00	1.300	12.300	5104.19	1177.23	-144.01	-1168.40	0.25	
5358.00	1.400	19.400	5191.17	1176.42	-142.05	-1167.84	0.22	
5447.00	1.500	24.900	5280.14	1175.31	-139.96	-1166.99	0.19	
5534.00	1.500	25.300	5367.11	1174.09	-137.90	-1166.02	0.01	
5621.00	1.600	28.900	5454.08	1172.76	-135.81	-1164.95	0.16	
5712.00	1.700	36.600	5545.04	1171.08	-133.61	-1163.53	0.27	
5799.00	0.700	28.500	5632.02	1169.87	-132.11	-1162.51	1.16	
5888.00	1.000	307.600	5721.01	1170.10	-131.16	-1162.86	1.27	
5977.00	1.200	281.300	5810.00	1171.54	-130.50	-1164.39	0.60	
6067.00	1.100	290.800	5899.98	1173.19	-130.01	-1166.12	0.24	
6155.00	1.200	295.300	5987.96	1174.71	-129.32	-1167.75	0.15	
6245.00	1.400	289.400	6077.94	1176.49	-128.55	-1169.63	0.27	
6333.00	1.000	232.100	6165.92	1178.11	-128.66	-1171.25	1.37	
6420.00	1.000	245.100	6252.91	1179.49	-129.45	-1172.54	0.26	
6510.00	1.100	252.100	6342.89	1181.09	-130.04	-1174.08	0.18	
6598.00	1.000	261.200	6430.88	1182.68	-130.42	-1175.64	0.22	
6688.00	1.400	295.700	6520.86	1184.39	-130.07	-1177.41	0.90	
6779.00	0.700	290.100	6611.84	1185.82	-129.39	-1178.93	0.78	
6869.00	0.200	192.000	6701.84	1186.36	-129.36	-1179.48	0.84	
6959.00	0.500	162.100	6791.84	1186.34	-129.88	-1179.39	0.38	
7048.00	0.800	155.800	6880.84	1186.08	-130.82	-1179.02	0.35	
7135.00	0.500	150.800	6967.83	1185.77	-131.71	-1178.58	0.35	
7225.00	0.500	155.100	7057.83	1185.50	-132.40	-1178.23	0.04	
7314.00	0.400	164.600	7146.82	1185.34	-133.06	-1177.98	0.14	
7402.00	0.300	166.300	7234.82	1185.27	-133.58	-1177.84	0.11	
7491.00	0.300	224.700	7323.82	1185.43	-133.97	-1177.95	0.33	
7580.00	0.300	274.200	7412.82	1185.84	-134.12	-1178.35	0.28	
7668.00	0.400	263.000	7500.82	1186.37	-134.14	-1178.88	0.14	
7757.00	0.500	259.500	7589.82	1187.07	-134.25	-1179.57	0.12	
7845.00	0.500	228.500	7677.81	1187.77	-134.57	-1180.24	0.30	
7935.00	0.400	229.200	7767.81	1188.36	-135.04	-1180.77	0.11	



Actual Wellpath Report

REIGLE 22-4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 REIGLE 22-4 (2315'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 22-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 22-4 AWB
Facility	SEC.04-T2N-R65W		

WELLPATH DATA (93 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8025.00	0.400	188.100	7857.81	1188.70	-135.55	-1181.05	0.31	
8055.00	0.400	199.100	7887.81	1188.78	-135.75	-1181.10	0.26	LAST BHI MWD SURVEY
8105.00	0.400	199.100	7937.81	1188.93	-136.08	-1181.22	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: REIGLE 22-4 AWB Ref Wellpath: REIGLE 22-4 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	739.00	723.00	16.00	734.94	0.00	0.00	-7.52	-60.78
8.625in Casing Surface	16.00	729.00	713.00	16.00	725.11	0.00	0.00	-7.10	-58.96
7.875in Open Hole	729.00	8208.00	7479.00	725.11	NA	-7.10	-58.96	NA	NA

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
REIGLE 22-4 GEO TARGET 50' RADIUS (2465'FNL & 1347'FWL, REV-1)		6000.00	-149.70	-1169.33	3231019.39	1305082.92	40°10'04.411"N	104°40'24.010"W	circle
REIGLE 22-4 HARDLINE 53'S OF GEO TARGET		6000.00	-202.70	-1169.33	3231019.88	1305029.93	40°10'03.887"N	104°40'24.010"W	point

WELLPATH COMPOSITION Ref Wellbore: REIGLE 22-4 AWB Ref Wellpath: REIGLE 22-4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	684.00	NaviTrak (Standard)	BHI NAVITRAK 12.25 HOLE <157-684>	REIGLE 22-4 AWB
684.00	8055.00	NaviTrak (Standard)	BHI NAVITRAK 7.875 HOLE <797-8055>	REIGLE 22-4 AWB
8055.00	8105.00	Blind Drilling (std)	Projection to bit	REIGLE 22-4 AWB



Actual Wellpath Report

REIGLE 22-4 AWP

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Area	COLORADO	Well	REIGLE 22-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 22-4 AWB
Facility	SEC.04-T2N-R65W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8055.00	0.400	199.100	7887.81	LAST BHI MWD SURVEY
8105.00	0.400	199.100	7937.81	PROJECTION TO BIT