

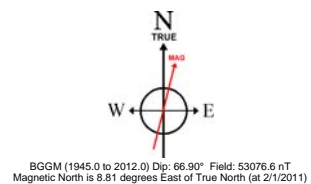
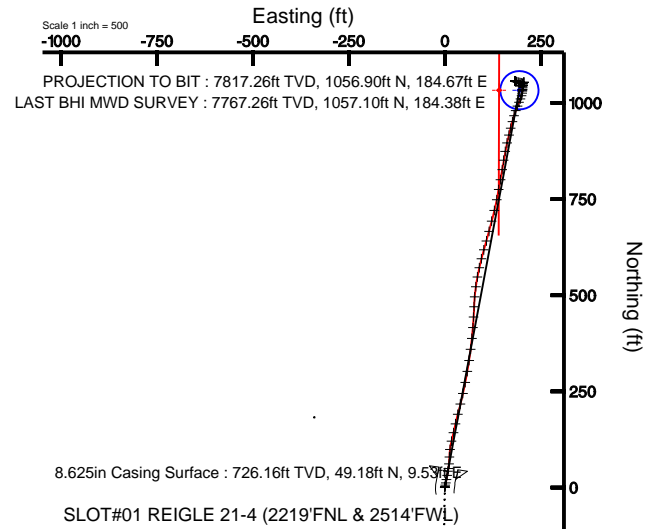
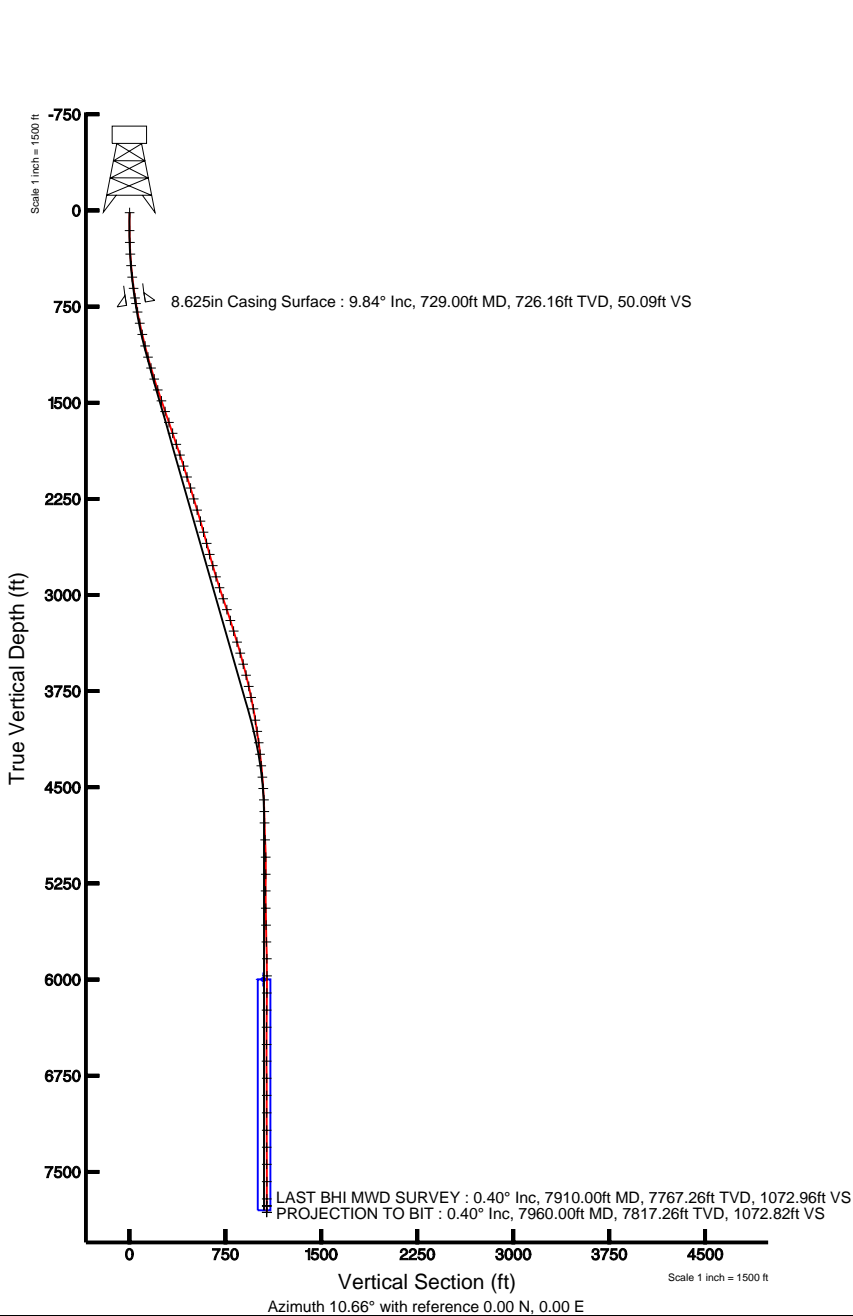


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#01 REIGLE 21-4 (2219'FNL & 2514'FWL)
 Field: WELD COUNTY (KERR MCGEE) Well: REIGLE 21-4
 Facility: SEC.04-T2N-R65W Wellbore: REIGLE 21-4 PWB



Plot reference wellpath is REIGLE 21-4 (REV-A.0) PWB	
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: cookdarm on 6/9/2011



To correct azimuth from Magnetic to True add 8.81 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 8.81 = 98.81



Actual Wellpath Report

REIGLE 21-4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 REIGLE 21-4 (2219'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 21-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 21-4 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	6/9/2011 at 11:48:45 AM
Convergence at slot	0.54° East	Database/Source file	WA_DENVER/REIGLE_21-4_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	3232187.43	1305339.38	40°10'06.838"N	104°40'08.933"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	10.66°



Actual Wellpath Report

REIGLE 21-4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 REIGLE 21-4 (2219'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 21-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 21-4 AWP
Facility	SEC.04-T2N-R65W		

WELLPATH DATA (80 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	335.400	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	335.400	16.00	0.00	0.00	0.00	0.00	
157.00	0.300	335.400	157.00	0.30	0.34	-0.15	0.21	
249.00	1.900	19.400	248.98	2.01	1.99	0.25	1.84	
340.00	3.000	11.600	339.90	5.88	5.75	1.23	1.26	
430.00	4.900	12.700	429.68	12.07	11.81	2.55	2.11	
520.00	6.300	10.200	519.25	20.85	20.42	4.27	1.58	
609.00	7.800	10.900	607.57	31.78	31.15	6.28	1.69	
684.00	9.000	10.600	681.76	42.73	41.92	8.32	1.60	
796.00	11.100	5.700	792.04	62.24	61.26	11.00	2.02	
885.00	11.900	1.400	879.26	79.83	78.96	12.08	1.32	
975.00	13.400	6.700	967.07	99.39	98.59	13.52	2.11	
1067.00	14.300	13.700	1056.40	121.38	120.22	17.46	2.07	
1157.00	14.900	13.000	1143.50	144.04	142.29	22.69	0.69	
1246.00	16.000	12.700	1229.28	167.73	165.41	27.96	1.24	
1335.00	17.200	14.100	1314.57	193.12	190.14	33.86	1.42	
1425.00	18.400	14.000	1400.26	220.59	216.83	40.54	1.33	
1514.00	19.000	13.000	1484.56	249.09	244.58	47.20	0.76	
1603.00	19.100	11.300	1568.69	278.12	272.97	53.31	0.63	
1693.00	18.800	10.200	1653.81	307.35	301.68	58.77	0.52	
1782.00	19.300	8.500	1737.94	336.39	330.34	63.48	0.84	
1873.00	18.400	6.400	1824.05	365.74	359.49	67.30	1.24	
1962.00	18.900	6.700	1908.38	394.12	387.77	70.55	0.57	
2052.00	17.800	4.600	1993.80	422.35	415.96	73.35	1.43	
2142.00	17.700	2.500	2079.52	449.57	443.34	75.05	0.72	
2232.00	17.100	2.500	2165.40	476.21	470.22	76.23	0.67	
2321.00	16.600	5.300	2250.58	501.82	495.96	77.97	1.07	
2412.00	17.100	7.800	2337.68	528.13	522.15	80.99	0.97	
2502.00	16.300	10.600	2423.88	553.97	547.68	85.11	1.26	
2591.00	15.500	12.700	2509.48	578.35	571.56	90.02	1.11	
2682.00	15.200	13.400	2597.23	602.41	595.02	95.46	0.39	
2772.00	15.600	17.300	2684.00	626.22	618.06	101.79	1.23	
2862.00	15.600	15.500	2770.69	650.30	641.27	108.63	0.54	
2953.00	17.200	14.800	2857.98	675.91	666.07	115.33	1.77	
3043.00	18.400	13.700	2943.67	703.37	692.74	122.10	1.38	
3133.00	18.900	14.100	3028.94	732.10	720.68	129.01	0.57	
3223.00	18.100	12.000	3114.29	760.63	748.49	135.47	1.16	
3312.00	17.400	9.500	3199.06	787.76	775.14	140.54	1.16	
3399.00	17.500	11.300	3282.05	813.84	800.79	145.25	0.63	
3488.00	16.900	8.100	3367.08	840.15	826.72	149.69	1.26	
3578.00	15.300	8.800	3453.54	865.09	851.41	153.35	1.79	
3667.00	14.900	11.300	3539.47	888.26	874.24	157.39	0.86	
3756.00	14.400	14.100	3625.58	910.75	896.19	162.33	0.97	
3846.00	12.600	13.100	3713.09	931.73	916.61	167.28	2.02	
3934.00	11.700	15.100	3799.12	950.22	934.57	171.78	1.13	



Actual Wellpath Report

REIGLE 21-4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 REIGLE 21-4 (2219'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 21-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 21-4 AWB
Facility	SEC.04-T2N-R65W		

WELLPATH DATA (80 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4025.00	10.600	14.400	3888.40	967.77	951.59	176.27	1.22	
4115.00	9.800	15.800	3976.97	983.66	966.98	180.41	0.93	
4204.00	8.800	21.100	4064.81	997.90	980.62	184.93	1.48	
4293.00	7.300	22.200	4152.93	1010.14	992.20	189.51	1.69	
4384.00	6.000	22.900	4243.31	1020.45	1001.94	193.55	1.43	
4474.00	6.200	22.500	4332.80	1029.80	1010.76	197.24	0.23	
4563.00	5.200	16.500	4421.36	1038.52	1019.07	200.22	1.31	
4652.00	3.800	2.500	4510.09	1045.45	1025.88	201.50	1.99	
4741.00	3.000	12.700	4598.93	1050.70	1031.10	202.14	1.12	
4832.00	1.100	350.500	4689.87	1053.90	1034.29	202.52	2.22	
4920.00	1.100	22.500	4777.85	1055.52	1035.90	202.70	0.69	
5053.00	2.600	356.500	4910.78	1059.69	1040.09	203.01	1.26	
5188.00	1.500	359.700	5045.69	1064.40	1044.91	202.81	0.82	
5321.00	0.900	188.500	5178.68	1065.06	1045.62	202.65	1.80	
5452.00	0.100	70.700	5309.68	1064.09	1044.64	202.60	0.73	
5586.00	0.600	10.200	5443.68	1064.85	1045.37	202.84	0.42	
5718.00	1.100	16.900	5575.66	1066.80	1047.26	203.33	0.39	
5850.00	1.700	9.200	5707.62	1070.02	1050.41	204.01	0.48	
5981.00	1.700	38.300	5838.57	1073.68	1053.85	205.52	0.65	
6115.00	0.600	190.900	5972.55	1074.74	1054.72	206.62	1.68	
6248.00	1.400	244.000	6105.53	1073.07	1053.33	205.03	0.86	
6382.00	1.400	269.000	6239.49	1071.77	1052.58	201.92	0.45	
6515.00	1.400	285.100	6372.45	1071.56	1052.97	198.73	0.29	
6650.00	1.500	273.500	6507.41	1071.47	1053.51	195.37	0.23	
6780.00	1.900	289.700	6637.35	1071.60	1054.34	191.65	0.48	
6914.00	1.200	283.000	6771.30	1072.00	1055.41	188.19	0.54	
7048.00	0.900	278.100	6905.28	1072.01	1055.87	185.78	0.23	
7184.00	0.600	299.200	7041.27	1072.19	1056.37	184.10	0.30	
7319.00	0.300	294.600	7176.26	1072.50	1056.86	183.16	0.22	
7452.00	0.100	296.400	7309.26	1072.62	1057.06	182.74	0.15	
7585.00	0.300	25.300	7442.26	1072.99	1057.42	182.79	0.24	
7721.00	0.200	138.500	7578.26	1073.19	1057.57	183.10	0.31	
7855.00	0.600	100.600	7712.26	1073.04	1057.26	183.94	0.34	
7910.00	0.400	125.200	7767.26	1072.96	1057.10	184.38	0.53	LAST BHI MWD SURVEY
7960.00	0.400	125.200	7817.26	1072.82	1056.90	184.67	0.00	PROJECTION TO BIT



Actual Wellpath Report

REIGLE 21-4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 REIGLE 21-4 (2219'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 21-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 21-4 AWB
Facility	SEC.04-T2N-R65W		

HOLE & CASING SECTIONS Ref Wellbore: REIGLE 21-4 AWB Ref Wellpath: REIGLE 21-4 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	736.01	0.00	0.00	50.89	9.77
8.625in Casing Surface	16.00	729.00	713.00	16.00	726.16	0.00	0.00	49.18	9.53
7.875in Open Hole	729.00	7960.00	7231.00	726.16	7817.26	49.18	9.53	1056.90	184.67

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
REIGLE 21-4 GEO TARGET 50' RADIUS (1186'FNL & 2590'FEL, REV-1)		6000.00	1033.51	194.51	3232372.24	1306374.62	40°10'17.051"N	104°40'06.427"W	circle
REIGLE 21-4 HARDLINE 53'W OF GEO TARGET		6000.00	1033.51	141.51	3232319.25	1306374.12	40°10'17.051"N	104°40'07.110"W	point

WELLPATH COMPOSITION Ref Wellbore: REIGLE 21-4 AWB Ref Wellpath: REIGLE 21-4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	684.00	NaviTrak (Standard)	BHI MWD SURVEYS <157-684>	REIGLE 21-4 AWB
684.00	7910.00	NaviTrak (Standard)	BHI MWD SURVEYS 7.875 HOLE <796-7910>	REIGLE 21-4 AWB
7910.00	7960.00	Blind Drilling (std)	Projection to bit	REIGLE 21-4 AWB



Actual Wellpath Report

REIGLE 21-4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 REIGLE 21-4 (2219'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 21-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 21-4 AWB
Facility	SEC.04-T2N-R65W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7910.00	0.400	125.200	7767.26	LAST BHI MWD SURVEY
7960.00	0.400	125.200	7817.26	PROJECTION TO BIT