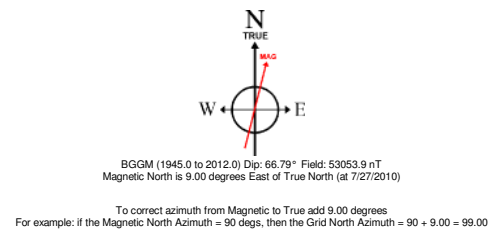
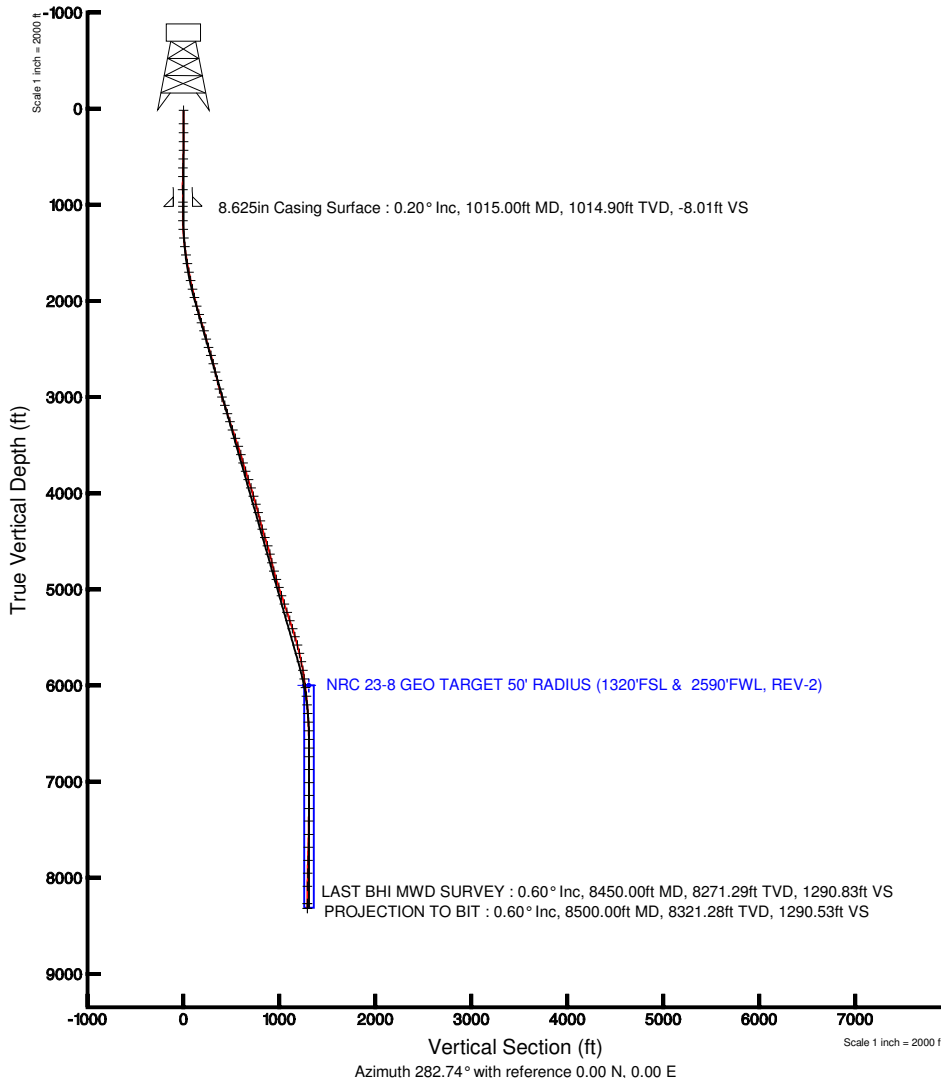
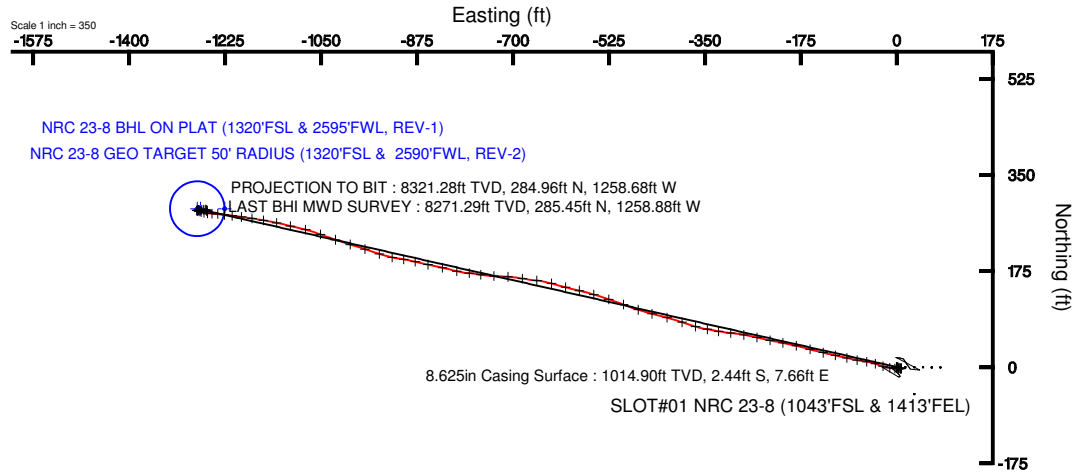


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#01 NRC 23-8 (1043'FSL & 1413'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: NRC 23-8
 Facility: SEC.08-T1N-R67W Wellbore: NRC 23-8 PWB



Plot reference wellpath is NRC 23-8 (REV-A.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: 5071 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.08-T1N-R67W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	
Created by: bensjacj on 7/27/2010	





Actual Wellpath Report

NRC 23-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 NRC 23-8 (1043'FSL & 1413'FEL)
Area	COLORADO	Well	NRC 23-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 23-8 AWB
Facility	SEC.08-T1N-R67W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Bensjacj
Scale	0.999962	Report Generated	7/27/2010 at 4:24:59 PM
Convergence at slot	0.38° East	Database/Source file	WA_Denver/NRC_23-8_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	3165100.01	1265676.46	40°03'40.190"N	104°54'36.529"W
Facility Reference Pt			3165100.01	1265676.46	40°03'40.190"N	104°54'36.529"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	5071.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RT) to Mean Sea Level	5071.00ft
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	282.74°



Actual Wellpath Report

NRC 23-8 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 NRC 23-8 (1043'FSL & 1413'FEL)
Area	COLORADO	Well	NRC 23-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 23-8 AWP
Facility	SEC.08-T1N-R67W		

WELLPATH DATA (89 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	85.000	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	85.000	15.00	0.00	0.00	0.00	0.00	
154.00	0.000	85.000	154.00	0.00	0.00	0.00	0.00	
247.00	0.300	85.000	247.00	-0.23	0.02	0.24	0.32	
340.00	0.300	83.900	340.00	-0.69	0.07	0.73	0.01	
432.00	0.900	112.700	431.99	-1.63	-0.18	1.63	0.71	
522.00	1.410	110.600	521.97	-3.43	-0.85	3.32	0.57	
614.00	1.900	114.100	613.94	-6.04	-1.87	5.77	0.54	
705.00	1.000	106.800	704.91	-8.31	-2.71	7.91	1.01	
840.00	0.400	309.300	839.90	-9.07	-2.76	8.67	1.02	
970.00	0.400	277.600	969.90	-8.21	-2.41	7.87	0.17	
1072.00	0.400	157.400	1071.90	-8.06	-2.69	7.66	0.68	
1162.00	1.100	257.900	1161.89	-7.46	-3.16	6.93	1.37	
1252.00	3.300	270.900	1251.82	-4.14	-3.30	3.50	2.49	
1343.00	5.200	275.500	1342.56	2.52	-2.87	-3.23	2.12	
1433.00	6.900	279.000	1432.06	11.96	-1.63	-12.63	1.93	
1522.00	9.000	287.100	1520.20	24.23	1.26	-24.56	2.67	
1613.00	10.000	288.200	1609.95	39.20	5.82	-38.87	1.12	
1703.00	10.600	279.400	1698.51	55.24	9.61	-54.46	1.87	
1793.00	12.000	280.100	1786.76	72.85	12.60	-71.84	1.56	
1883.00	13.100	282.500	1874.61	92.40	16.45	-91.01	1.35	
1974.00	13.700	282.500	1963.13	113.49	21.01	-111.60	0.66	
2065.00	15.500	283.200	2051.19	136.42	26.12	-133.96	1.99	
2155.00	16.200	285.400	2137.77	160.99	32.20	-157.77	1.02	
2246.00	17.400	283.200	2224.88	187.28	38.68	-183.26	1.49	
2335.00	15.300	281.500	2310.28	212.33	44.06	-207.72	2.42	
2425.00	15.300	280.400	2397.09	236.06	48.57	-231.04	0.32	
2513.00	16.500	283.600	2481.72	260.16	53.61	-254.61	1.69	
2601.00	15.900	280.400	2566.23	284.70	58.72	-278.61	1.22	
2691.00	15.300	275.200	2652.92	308.79	62.03	-302.56	1.69	
2781.00	13.700	281.100	2740.06	331.22	65.15	-324.85	2.42	
2870.00	13.500	278.700	2826.56	352.12	68.75	-345.46	0.67	
2960.00	15.200	286.800	2913.76	374.37	73.75	-367.14	2.92	
3050.00	18.000	288.500	3000.00	399.98	81.58	-391.63	3.16	
3141.00	18.900	285.300	3086.32	428.69	89.93	-419.18	1.49	
3231.00	17.300	284.600	3171.87	456.63	97.15	-446.19	1.79	
3319.00	17.800	286.700	3255.77	483.13	104.31	-471.74	0.92	
3410.00	18.700	291.700	3342.20	511.42	113.70	-498.62	1.98	
3500.00	18.400	288.200	3427.53	539.81	123.48	-525.52	1.28	
3590.00	18.500	287.100	3512.90	568.18	132.11	-552.66	0.40	
3681.00	16.500	282.900	3599.69	595.51	139.24	-579.06	2.60	
3771.00	16.600	284.300	3685.96	621.14	145.27	-603.97	0.46	
3861.00	17.800	285.700	3771.93	647.73	152.17	-629.67	1.41	
3952.00	17.100	276.600	3858.76	674.93	157.47	-656.36	3.09	
4042.00	17.900	279.700	3944.60	701.90	161.32	-683.14	1.36	



Actual Wellpath Report

NRC 23-8 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 NRC 23-8 (1043'FSL & 1413'FEL)
Area	COLORADO	Well	NRC 23-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 23-8 AWB
Facility	SEC.08-T1N-R67W		

WELLPATH DATA (89 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4132.00	16.400	273.400	4030.60	728.25	164.41	-709.46	2.65	
4220.00	17.000	272.700	4114.89	753.17	165.75	-734.71	0.72	
4310.00	14.000	279.700	4201.61	777.01	168.20	-758.59	3.92	
4399.00	13.800	274.800	4288.01	798.27	170.91	-779.78	1.34	
4489.00	16.400	283.900	4374.91	821.61	174.86	-802.82	3.90	
4579.00	18.000	282.500	4460.88	848.22	180.92	-828.73	1.84	
4670.00	16.500	281.800	4547.78	875.21	186.61	-855.11	1.66	
4760.00	14.200	284.600	4634.57	899.02	192.00	-878.30	2.68	
4851.00	13.500	278.300	4722.93	920.77	196.35	-899.62	1.83	
4940.00	13.900	280.800	4809.40	941.81	199.85	-920.40	0.80	
5030.00	17.500	288.200	4896.03	966.09	206.11	-943.88	4.57	
5120.00	18.500	288.500	4981.63	993.77	214.87	-970.28	1.12	
5210.00	17.800	286.500	5067.15	1021.71	223.30	-997.01	1.04	
5301.00	18.800	288.900	5153.55	1050.17	232.00	-1024.22	1.38	
5392.00	18.300	290.600	5239.82	1078.90	241.78	-1051.46	0.81	
5482.00	18.600	284.300	5325.20	1107.24	250.30	-1078.60	2.24	
5571.00	18.500	283.200	5409.58	1135.55	257.03	-1106.10	0.41	
5658.00	16.200	282.200	5492.61	1161.49	262.75	-1131.41	2.67	
5749.00	14.700	280.100	5580.32	1185.72	267.45	-1155.18	1.76	
5839.00	13.000	278.000	5667.70	1207.22	270.86	-1176.45	1.97	
5928.00	11.800	278.000	5754.63	1226.27	273.52	-1195.37	1.35	
6019.00	10.000	277.600	5843.98	1243.41	275.86	-1212.42	1.98	
6109.00	8.600	275.900	5932.80	1257.87	277.59	-1226.86	1.59	
6199.00	7.100	275.500	6021.95	1270.07	278.81	-1239.09	1.67	
6290.00	5.800	274.800	6112.37	1280.21	279.74	-1249.27	1.43	
6380.00	4.700	276.200	6201.99	1288.37	280.52	-1257.47	1.23	
6471.00	3.700	281.800	6292.75	1295.01	281.52	-1264.05	1.19	
6561.00	3.000	283.600	6382.59	1300.27	282.67	-1269.18	0.79	
6652.00	1.900	282.500	6473.51	1304.16	283.55	-1272.97	1.21	
6742.00	1.500	323.300	6563.47	1306.55	284.82	-1275.13	1.38	
6832.00	0.400	248.800	6653.46	1307.70	285.65	-1276.13	1.61	
6922.00	0.200	295.200	6743.46	1308.12	285.61	-1276.56	0.33	
7054.00	0.100	148.900	6875.46	1308.26	285.61	-1276.71	0.22	
7190.00	0.200	64.600	7011.46	1307.99	285.61	-1276.44	0.16	
7325.00	0.400	87.800	7146.46	1307.35	285.72	-1275.75	0.17	
7461.00	0.400	62.500	7282.45	1306.53	285.96	-1274.86	0.13	
7591.00	0.700	76.200	7412.45	1305.48	286.36	-1273.68	0.25	
7731.00	1.200	84.600	7552.43	1303.32	286.70	-1271.39	0.37	
7864.00	1.500	93.400	7685.39	1300.28	286.73	-1268.27	0.27	
7999.00	1.500	87.400	7820.35	1296.83	286.71	-1264.74	0.12	
8135.00	1.200	86.400	7956.31	1293.75	286.88	-1261.54	0.22	
8271.00	0.400	126.400	8092.29	1291.94	286.68	-1259.74	0.68	
8450.00	0.600	157.600	8271.29	1290.83	285.45	-1258.88	0.18	LAST BHI MWD SURVEY
8500.00	0.600	157.600	8321.28	1290.53	284.96	-1258.68	0.00	PROJECTION TO BIT



Actual Wellpath Report

NRC 23-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 NRC 23-8 (1043'FSL & 1413'FEL)
Area	COLORADO	Well	NRC 23-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 23-8 AWB
Facility	SEC.08-T1N-R67W		

HOLE & CASING SECTIONS Ref Wellbore: NRC 23-8 AWB Ref Wellpath: NRC 23-8 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	1025.00	1010.00	15.00	1024.90	0.00	0.00	-2.47	7.63
8.625in Casing Surface	15.00	1015.00	1000.00	15.00	1014.90	0.00	0.00	-2.44	7.66
7.875in Open Hole	1015.00	8500.00	7485.00	1014.90	8321.28	-2.44	7.66	284.96	-1258.68

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
NRC 23-8 BHL ON PLAT (1320'FSL & 2595'FWL, REV-1)		6000.00	288.55	-1270.23	3163827.94	1265956.54	40°03'43.042"N	104°54'52.866"W	point
NRC 23-8 GEO TARGET 50' RADIUS (1320'FSL & 2590'FWL, REV-2)		6000.00	288.55	-1276.23	3163821.94	1265956.50	40°03'43.042"N	104°54'52.943"W	circle
NRC 23-8 HARDLINE 50'E		6000.00	288.55	-1226.23	3163871.94	1265956.84	40°03'43.042"N	104°54'52.300"W	point

WELLPATH COMPOSITION Ref Wellbore: NRC 23-8 AWB Ref Wellpath: NRC 23-8 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8450.00	NaviTrak (Standard)	BHI MWD <154-8450>	NRC 23-8 AWB
8450.00	8500.00	Blind Drilling (std)	Projection to bit	NRC 23-8 AWB



Actual Wellpath Report

NRC 23-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 NRC 23-8 (1043'FSL & 1413'FEL)
Area	COLORADO	Well	NRC 23-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 23-8 AWB
Facility	SEC.08-T1N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8450.00	0.600	157.600	8271.29	LAST BHI MWD SURVEY
8500.00	0.600	157.600	8321.28	PROJECTION TO BIT