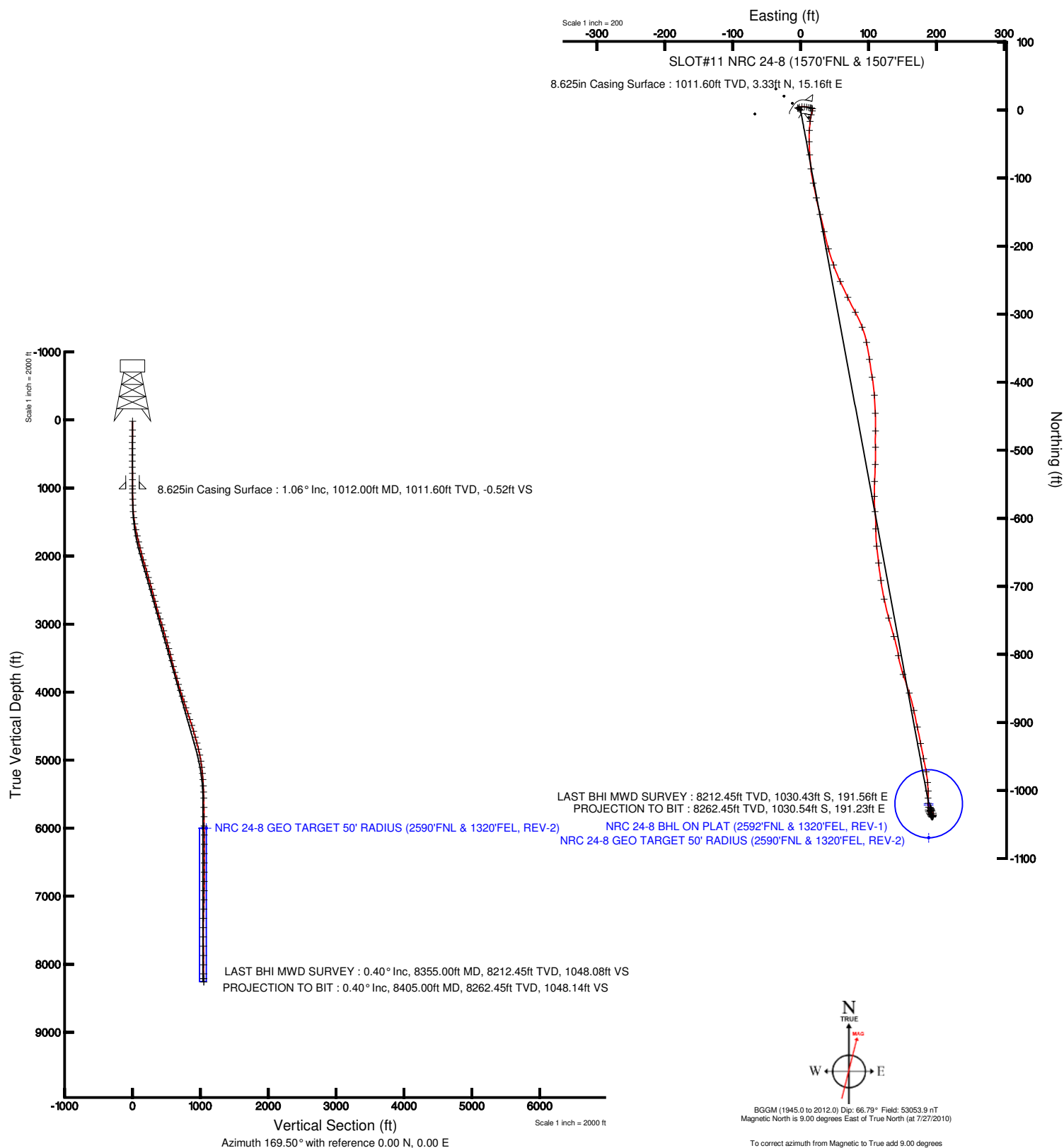




Location:	COLORADO	Slot:	SLOT#11 NRC 24-8 (1570'FNL & 1507'FEL)
Field:	WELD COUNTY (KERR MCGEE)	Well:	NRC 24-8
Facility:	SEC.08-T1N-R67W	Wellbore:	NRC 24-8 PWB

Plot reference wellpath is NRC 24-8 (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: 5023 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: bensiaci on 7/28/2010





Actual Wellpath Report

NRC 24-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#11 NRC 24-8 (1570'FNL & 1507'FEL)
Area	COLORADO	Well	NRC 24-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 24-8 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	7/28/2010 at 10:10:06 AM
Convergence at slot	0.38° East	Database/Source file	WA_Denver/NRC_24-8_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	2668.43	-97.96	3164984.31	1268344.08	40°04'06.560"N	104°54'37.789"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	5023.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RT) to Mean Sea Level	5023.00ft
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	169.50°



Actual Wellpath Report

NRC 24-8 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#11 NRC 24-8 (1570'FNL & 1507'FEL)
Area	COLORADO	Well	NRC 24-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 24-8 AWP
Facility	SEC.08-T1N-R67W		

WELLPATH DATA (85 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	312.800	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	312.800	15.00	0.00	0.00	0.00	0.00	
145.00	1.600	312.800	144.98	-1.46	1.23	-1.33	1.23	
237.00	1.000	294.500	236.96	-2.95	2.44	-3.00	0.79	
329.00	0.700	308.200	328.95	-3.83	3.12	-4.18	0.39	
420.00	0.900	69.100	419.94	-4.37	3.72	-3.95	1.53	
512.00	2.100	67.400	511.91	-4.86	4.62	-1.71	1.31	
603.00	2.600	90.600	602.84	-4.81	5.24	1.89	1.17	
694.00	2.300	95.900	693.75	-3.90	5.03	5.77	0.41	
784.00	1.900	97.600	783.69	-2.93	4.65	9.04	0.45	
875.00	1.900	108.200	874.64	-1.73	3.98	11.97	0.39	
970.00	1.100	95.900	969.61	-0.72	3.39	14.38	0.90	
1073.00	1.000	87.400	1072.59	-0.32	3.33	16.26	0.18	
1164.00	1.500	156.300	1163.58	0.95	2.28	17.53	1.62	
1254.00	2.800	195.700	1253.51	4.07	-0.92	17.41	2.11	
1345.00	5.000	195.300	1344.30	9.64	-6.88	15.76	2.42	
1436.00	7.300	185.900	1434.77	18.76	-16.46	14.12	2.75	
1527.00	9.600	184.400	1524.78	31.64	-29.78	12.94	2.54	
1617.00	11.600	178.500	1613.24	47.83	-46.31	12.60	2.53	
1708.00	12.900	176.400	1702.17	66.95	-65.59	13.48	1.51	
1799.00	13.700	173.500	1790.73	87.79	-86.44	15.34	1.14	
1889.00	13.500	167.900	1878.21	108.92	-107.30	18.75	1.48	
1980.00	14.800	169.000	1966.44	131.16	-129.10	23.19	1.46	
2071.00	17.000	165.100	2053.96	156.05	-153.36	28.83	2.69	
2161.00	16.700	168.300	2140.10	182.10	-178.74	34.84	1.08	
2253.00	16.100	163.700	2228.36	208.00	-203.93	41.10	1.55	
2343.00	16.100	160.900	2314.83	232.76	-227.70	48.68	0.86	
2434.00	17.400	154.900	2401.97	258.40	-251.95	58.58	2.38	
2525.00	15.600	154.600	2489.22	283.40	-275.32	69.61	1.98	
2616.00	15.800	151.400	2576.83	307.00	-297.26	80.79	0.98	
2707.00	14.900	159.500	2664.59	330.30	-319.09	90.81	2.55	
2797.00	15.300	168.200	2751.49	353.57	-341.56	97.30	2.55	
2888.00	17.000	172.100	2838.90	378.86	-366.49	101.58	2.22	
2978.00	17.200	170.400	2924.92	405.31	-392.64	105.61	0.60	
3069.00	16.900	176.000	3011.93	431.91	-419.11	108.77	1.83	
3160.00	17.300	177.800	3098.91	458.44	-445.82	110.22	0.73	
3251.00	15.700	181.300	3186.16	483.88	-471.65	110.46	2.07	
3341.00	15.300	178.800	3272.89	507.52	-495.70	110.43	0.87	
3432.00	16.900	182.000	3360.32	532.29	-520.92	110.22	2.01	
3523.00	14.900	182.700	3447.83	556.59	-545.83	109.21	2.21	
3614.00	13.300	179.700	3536.09	578.29	-567.99	108.71	1.93	
3704.00	15.500	174.900	3623.26	600.45	-590.32	109.83	2.78	
3795.00	16.600	179.900	3710.71	625.34	-615.43	110.94	1.94	
3886.00	16.400	173.900	3797.97	650.94	-641.21	112.32	1.88	
3977.00	15.200	173.500	3885.53	675.65	-665.84	115.04	1.32	



Actual Wellpath Report

NRC 24-8 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#11 NRC 24-8 (1570'FNL & 1507'FEL)
Area	COLORADO	Well	NRC 24-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 24-8 AWP
Facility	SEC.08-T1N-R67W		

WELLPATH DATA (85 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4068.00	18.000	171.800	3972.73	701.61	-691.61	118.40	3.12	
4158.00	18.100	168.000	4058.31	729.48	-719.05	123.29	1.31	
4249.00	18.400	165.100	4144.73	757.93	-746.76	129.92	1.05	
4339.00	18.300	163.000	4230.16	786.13	-774.00	137.70	0.74	
4430.00	18.500	170.700	4316.52	814.76	-801.91	144.21	2.68	
4521.00	18.500	160.900	4402.83	843.48	-829.81	151.27	3.41	
4612.00	18.200	162.300	4489.21	871.85	-856.99	160.32	0.59	
4703.00	15.600	168.600	4576.28	898.19	-882.53	167.06	3.49	
4793.00	16.500	167.900	4662.77	923.07	-906.89	172.13	1.02	
4884.00	15.100	169.300	4750.33	947.84	-931.17	177.04	1.59	
4975.00	13.800	168.300	4838.45	970.55	-953.45	181.44	1.45	
5066.00	11.200	170.000	4927.28	990.24	-972.78	185.18	2.89	
5156.00	9.100	175.000	5015.87	1006.06	-988.48	187.32	2.53	
5247.00	7.100	178.100	5105.96	1018.79	-1001.27	188.13	2.25	
5338.00	5.900	183.800	5196.37	1028.88	-1011.56	188.01	1.50	
5429.00	3.900	170.000	5287.04	1036.51	-1019.28	188.23	2.54	
5520.00	3.400	184.800	5377.86	1042.21	-1025.01	188.54	1.17	
5610.00	2.000	179.500	5467.76	1046.33	-1029.24	188.33	1.58	
5701.00	1.100	153.200	5558.72	1048.73	-1031.61	188.74	1.24	
5837.00	1.000	151.400	5694.70	1051.11	-1033.82	189.90	0.08	
5973.00	0.700	133.800	5830.68	1052.91	-1035.43	191.07	0.29	
6109.00	0.500	160.200	5966.68	1054.18	-1036.57	191.87	0.25	
6245.00	0.500	166.500	6102.67	1055.35	-1037.70	192.21	0.04	
6381.00	0.600	130.700	6238.67	1056.50	-1038.74	192.89	0.26	
6518.00	0.600	103.200	6375.66	1057.35	-1039.38	194.13	0.21	
6654.00	0.300	48.400	6511.65	1057.45	-1039.30	195.09	0.36	
6790.00	0.500	358.800	6647.65	1056.68	-1038.47	195.34	0.28	
6926.00	0.400	20.600	6783.65	1055.69	-1037.43	195.50	0.14	
7062.00	0.700	16.400	6919.64	1054.54	-1036.19	195.90	0.22	
7198.00	1.300	341.600	7055.62	1052.27	-1033.93	195.64	0.61	
7334.00	1.800	328.900	7191.57	1048.74	-1030.64	194.05	0.44	
7470.00	1.700	324.000	7327.51	1044.92	-1027.18	191.77	0.13	
7606.00	0.400	60.400	7463.49	1042.95	-1025.31	190.99	1.32	
7742.00	0.400	160.500	7599.49	1043.26	-1025.52	191.56	0.45	
7879.00	0.700	147.900	7736.48	1044.51	-1026.68	192.17	0.23	
8015.00	0.600	146.400	7872.47	1045.94	-1027.98	193.00	0.07	
8151.00	0.600	208.700	8008.46	1047.15	-1029.20	193.06	0.46	
8287.00	0.600	240.400	8144.46	1047.93	-1030.18	192.09	0.24	
8355.00	0.400	250.900	8212.45	1048.08	-1030.43	191.56	0.32	LAST BHI MWD SURVEY
8405.00	0.400	250.900	8262.45	1048.14	-1030.54	191.23	0.00	PROJECTION TO BIT



Actual Wellpath Report

NRC 24-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#11 NRC 24-8 (1570'FNL & 1507'FEL)
Area	COLORADO	Well	NRC 24-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 24-8 AWB
Facility	SEC.08-T1N-R67W		

HOLE & CASING SECTIONS Ref Wellbore: NRC 24-8 AWB Ref Wellpath: NRC 24-8 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	1024.60	0.00	0.00	3.33	15.40
8.625in Casing Surface	15.00	1012.00	997.00	15.00	1011.60	0.00	0.00	3.33	15.16
7.875in Open Hole	1012.00	8405.00	7393.00	1011.60	8262.45	3.33	15.16	-1030.54	191.23

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
NRC 24-8 GEO TARGET 50' RADIUS (2590'FNL & 1320'FEL, REV-2)		6000.00	-1019.84	188.93	3165180.01	1267325.55	40°03'56.482"N	104°54'35.359"W	circle
NRC 24-8 BHL ON PLAT (2592'FNL & 1320'FEL, REV-1)		6000.00	-1021.84	188.93	3165180.02	1267323.56	40°03'56.462"N	104°54'35.359"W	point
NRC 24-8 HARDLINE 50'S OF GEO TARGET		6000.00	-1069.84	188.93	3165180.34	1267275.56	40°03'55.988"N	104°54'35.359"W	point

WELLPATH COMPOSITION Ref Wellbore: NRC 24-8 AWB Ref Wellpath: NRC 24-8 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8355.00	NaviTrak (Standard)	BHI MWD SURVEYS<145-8355>	NRC 24-8 AWB
8355.00	8405.00	Blind Drilling (std)	Projection to bit	NRC 24-8 AWB



Actual Wellpath Report

NRC 24-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	NRC 24-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 24-8 AWB
Facility	SEC.08-T1N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8355.00	0.400	250.900	8212.45	LAST BHI MWD SURVEY
8405.00	0.400	250.900	8262.45	PROJECTION TO BIT