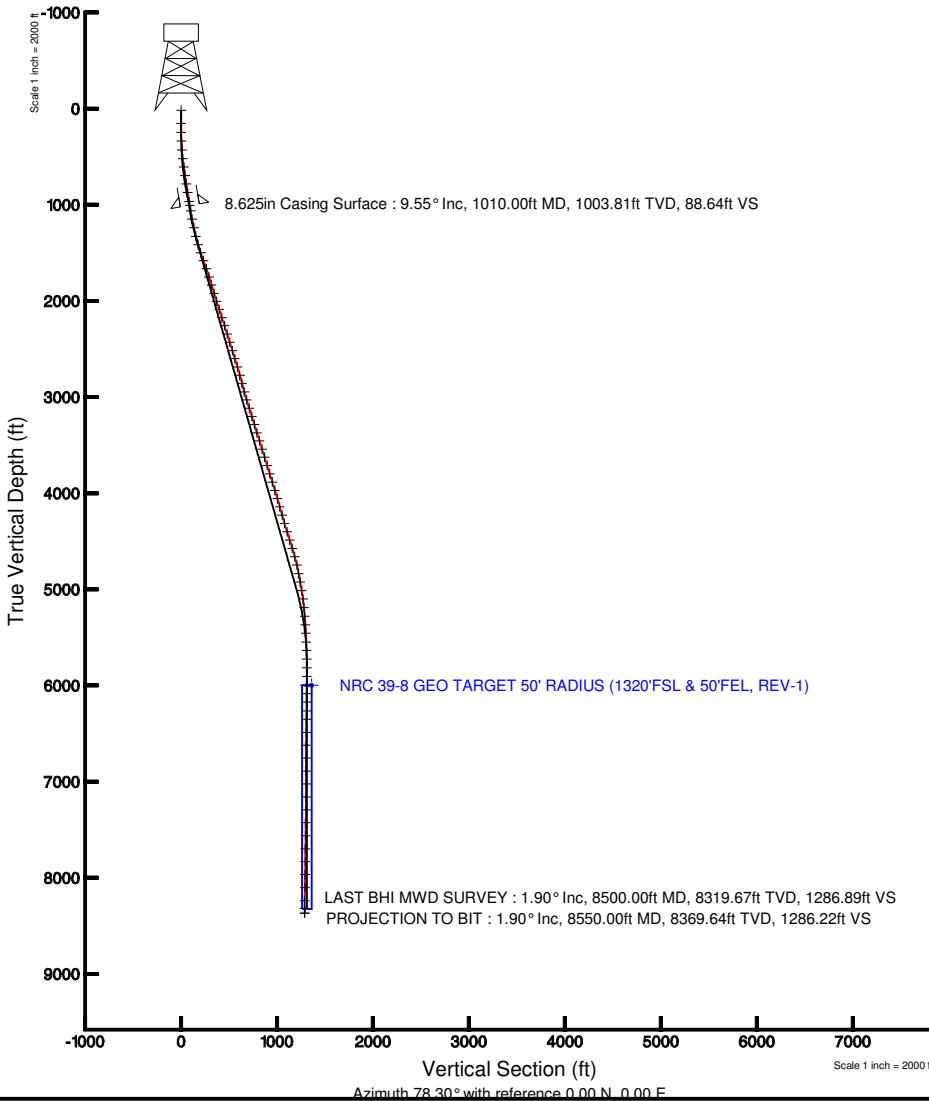
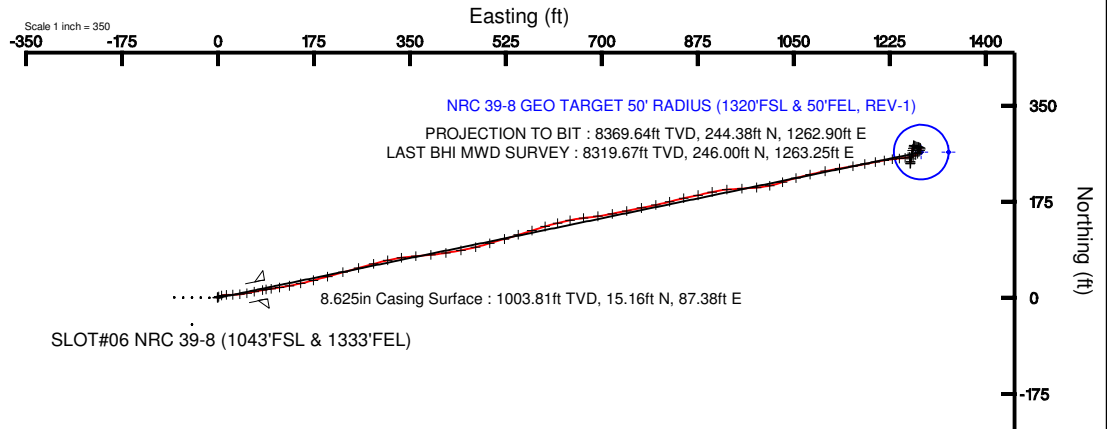


KERR MCGEE OIL & GAS ONSHORE LP



Location: COLORADO Slot: SLOT#06 NRC 39-8 (1043'FSL & 1333'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: NRC 39-8
 Facility: SEC.08-T1N-R67W Wellbore: NRC 39-8 PWB

Plot reference wellpath is NRC 39-8 (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: 5072 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 7/28/2010



BGGM (1945.0 to 2012.0) Dip: 66.79° Field: 53053.9 nT
 Magnetic North is 9.00 degrees East of True North (at 7/27/2010)

To correct azimuth from Magnetic to True add 9.00 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 9.00 = 99.00

Scale 1 inch = 2000 ft



Actual Wellpath Report

NRC 39-8 AWP

Page 1 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 NRC 39-8 (1043'FSL & 1333'FEL)
Area	COLORADO	Well	NRC 39-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 39-8 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 11:01:36 AM
Convergence at slot	0.38° East	Database/Source file	WA_Denver/NRC_39-8_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-0.73	80.06	3165180.07	1265676.27	40°03'40.183"N	104°54'35.500"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	5072.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RT) to Mean Sea Level	5072.00ft
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	78.30°



Actual Wellpath Report

NRC 39-8 AWP

Page 2 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 NRC 39-8 (1043'FSL & 1333'FEL)
Area	COLORADO	Well	NRC 39-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 39-8 AWP
Facility	SEC.08-T1N-R67W		

WELLPATH DATA (90 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	285.700	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	285.700	15.00	0.00	0.00	0.00	0.00	
151.00	1.100	285.700	150.99	-1.16	0.35	-1.26	0.81	
243.00	0.800	57.900	242.99	-1.34	0.93	-1.56	1.89	
334.00	2.800	66.300	333.94	1.43	2.16	1.01	2.21	
427.00	4.200	73.400	426.76	7.04	4.05	6.35	1.57	
517.00	6.700	87.400	516.35	15.51	5.23	14.76	3.13	
607.00	8.400	88.800	605.57	27.16	5.61	26.58	1.90	
695.00	8.700	85.000	692.59	40.09	6.32	39.63	0.73	
784.00	8.300	77.900	780.61	53.20	8.25	52.62	1.26	
875.00	8.700	77.900	870.61	66.65	11.07	65.77	0.44	
970.00	9.800	79.700	964.38	81.92	14.03	80.75	1.20	
1067.00	9.200	82.900	1060.05	97.90	16.46	96.57	0.82	
1157.00	10.600	80.700	1148.71	113.34	18.69	111.88	1.61	
1248.00	12.600	79.000	1237.84	131.63	21.93	129.88	2.23	
1338.00	14.400	77.600	1325.35	152.64	26.21	150.45	2.03	
1428.00	16.500	75.100	1412.10	176.60	31.90	173.74	2.45	
1516.00	19.100	75.100	1495.88	203.45	38.82	199.73	2.95	
1605.00	19.100	74.100	1579.98	232.51	46.55	227.81	0.37	
1695.00	19.200	74.800	1665.00	261.97	54.47	256.25	0.28	
1784.00	18.200	75.100	1749.30	290.45	61.88	283.80	1.13	
1873.00	16.300	76.500	1834.29	316.82	68.37	309.38	2.19	
1962.00	17.100	82.200	1919.54	342.36	73.06	334.49	2.05	
2049.00	17.800	85.700	2002.54	368.31	75.79	360.43	1.45	
2138.00	18.400	84.300	2087.14	395.77	78.21	387.97	0.83	
2227.00	18.300	80.700	2171.61	423.70	81.86	415.74	1.28	
2317.00	17.500	80.400	2257.26	451.34	86.40	443.02	0.89	
2407.00	17.700	75.100	2343.05	478.52	92.17	469.59	1.79	
2497.00	17.400	73.700	2428.86	505.60	99.47	495.73	0.58	
2588.00	17.900	74.100	2515.58	533.11	107.12	522.24	0.57	
2677.00	16.800	72.000	2600.53	559.53	114.84	547.62	1.42	
2766.00	17.000	73.700	2685.68	585.29	122.47	572.34	0.60	
2856.00	15.800	72.000	2772.02	610.58	129.95	596.62	1.44	
2946.00	14.300	77.200	2858.94	633.87	136.20	619.12	2.24	
3036.00	15.900	77.600	2945.83	657.32	141.31	642.00	1.78	
3124.00	17.100	83.600	3030.21	682.25	145.34	666.63	2.37	
3214.00	17.400	82.200	3116.16	708.86	148.64	693.11	0.57	
3303.00	17.500	78.200	3201.07	735.51	153.18	719.40	1.35	
3392.00	17.300	79.000	3285.99	762.13	158.44	745.49	0.35	
3482.00	17.900	78.300	3371.78	789.34	163.80	772.17	0.71	
3570.00	17.600	78.300	3455.59	816.17	169.24	798.44	0.34	
3659.00	16.600	74.800	3540.66	842.31	175.30	823.88	1.61	
3748.00	17.900	77.900	3625.65	868.68	181.50	849.53	1.79	
3837.00	17.000	77.900	3710.56	895.37	187.10	875.62	1.01	
3927.00	17.000	76.500	3796.63	921.68	192.93	901.28	0.45	



Actual Wellpath Report

NRC 39-8 AWP

Page 3 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 NRC 39-8 (1043'FSL & 1333'FEL)
Area	COLORADO	Well	NRC 39-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 39-8 AWP
Facility	SEC.08-T1N-R67W		

WELLPATH DATA (90 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4018.00	18.200	85.000	3883.38	949.09	197.27	928.38	3.11	
4109.00	17.100	87.200	3970.09	976.43	199.17	955.90	1.41	
4199.00	17.100	84.600	4056.12	1002.65	201.06	982.29	0.85	
4288.00	15.100	79.300	4141.63	1027.25	204.44	1006.71	2.79	
4378.00	16.200	70.500	4228.30	1051.41	210.81	1030.07	2.90	
4468.00	16.400	74.800	4314.69	1076.54	218.33	1054.16	1.36	
4559.00	17.900	77.200	4401.64	1103.34	224.80	1080.20	1.82	
4649.00	18.200	77.600	4487.21	1131.23	230.88	1107.41	0.36	
4739.00	16.700	81.100	4573.07	1158.20	235.90	1133.92	2.03	
4830.00	14.900	80.700	4660.63	1182.95	239.81	1158.38	1.98	
4920.00	13.500	78.300	4747.87	1205.02	243.81	1180.09	1.69	
5010.00	11.300	79.700	4835.77	1224.34	247.52	1199.06	2.47	
5100.00	10.000	79.700	4924.22	1240.96	250.50	1215.42	1.44	
5190.00	9.100	83.600	5012.97	1255.86	252.69	1230.18	1.23	
5280.00	7.700	84.600	5102.00	1268.94	254.05	1243.26	1.56	
5370.00	5.600	81.400	5191.39	1279.32	255.27	1253.60	2.37	
5460.00	4.800	80.700	5281.02	1287.47	256.54	1261.66	0.89	
5549.00	3.800	66.300	5369.77	1294.08	258.32	1268.04	1.65	
5637.00	3.100	64.600	5457.61	1299.24	260.52	1272.86	0.80	
5728.00	2.100	49.500	5548.52	1303.09	262.66	1276.35	1.32	
5817.00	2.600	34.000	5637.44	1305.97	265.39	1278.72	0.90	
5906.00	2.100	30.500	5726.37	1308.51	268.47	1280.67	0.58	
5996.00	1.800	20.300	5816.32	1310.36	271.21	1282.00	0.51	
6086.00	1.100	302.900	5906.30	1310.50	273.01	1281.77	2.10	
6176.00	1.000	299.100	5996.28	1309.29	273.86	1280.35	0.14	
6266.00	0.700	293.800	6086.27	1308.24	274.46	1279.16	0.34	
6354.00	0.700	285.700	6174.26	1307.33	274.83	1278.16	0.11	
6445.00	1.000	288.900	6265.25	1306.15	275.23	1276.87	0.33	
6534.00	1.000	281.800	6354.24	1304.77	275.64	1275.37	0.14	
6670.00	0.800	292.400	6490.22	1302.90	276.25	1273.33	0.19	
6803.00	0.900	288.900	6623.21	1301.23	276.94	1271.49	0.08	
6937.00	0.500	286.400	6757.20	1299.81	277.45	1269.93	0.30	
7071.00	0.100	191.100	6891.20	1299.25	277.50	1269.35	0.39	
7206.00	0.200	18.200	7026.20	1299.32	277.60	1269.40	0.22	
7342.00	0.100	222.400	7162.20	1299.34	277.74	1269.39	0.22	
7475.00	0.600	195.400	7295.19	1298.93	276.99	1269.13	0.39	
7610.00	1.100	199.600	7430.18	1297.93	275.08	1268.51	0.37	
7745.00	1.500	202.400	7565.14	1296.27	272.23	1267.40	0.30	
7880.00	1.900	184.500	7700.08	1294.66	268.36	1266.55	0.49	
8014.00	2.100	184.100	7834.00	1293.37	263.70	1266.20	0.15	
8149.00	2.300	195.400	7968.90	1291.46	258.62	1265.30	0.35	
8284.00	2.200	187.600	8103.80	1289.37	253.44	1264.24	0.24	
8420.00	1.900	185.900	8239.71	1287.83	248.61	1263.66	0.23	
8500.00	1.900	192.200	8319.67	1286.89	246.00	1263.25	0.26	LAST BHI MWD SURVEY
8550.00	1.900	192.200	8369.64	1286.22	244.38	1262.90	0.00	PROJECTION TO BIT



Actual Wellpath Report

NRC 39-8 AWP

Page 4 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 NRC 39-8 (1043'FSL & 1333'FEL)
Area	COLORADO	Well	NRC 39-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 39-8 AWB
Facility	SEC.08-T1N-R67W		

HOLE & CASING SECTIONS Ref Wellbore: NRC 39-8 AWB Ref Wellpath: NRC 39-8 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	1018.60	0.00	0.00	15.53	89.83
8.625in Casing Surface	15.00	1010.00	995.00	15.00	1003.81	0.00	0.00	15.16	87.38
7.875in Open Hole	1010.00	8550.00	7540.00	1003.81	8369.64	15.16	87.38	244.38	1262.90

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
NRC 39-8 GEO TARGET 50' RADIUS (1320'FSL & 50'FEL, REV-1)		6000.00	265.60	1282.83	3166461.05	1265950.39	40°03'42.808"N	104°54'19.001"W	circle
NRC 39-8 HARDLINE 50'E OF GEO TARGET		6000.00	265.60	1332.83	3166511.05	1265950.72	40°03'42.808"N	104°54'18.358"W	point

WELLPATH COMPOSITION Ref Wellbore: NRC 39-8 AWB Ref Wellpath: NRC 39-8 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8500.00	NaviTrak (Standard)	BHI MWD SURVEY <151-8500>	NRC 39-8 AWB
8500.00	8550.00	Blind Drilling (std)	Projection to bit	NRC 39-8 AWB



Actual Wellpath Report

NRC 39-8 AWP

Page 5 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 NRC 39-8 (1043'FSL & 1333'FEL)
Area	COLORADO	Well	NRC 39-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 39-8 AWB
Facility	SEC.08-T1N-R67W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8500.00	1.900	192.200	8319.67	LAST BHI MWD SURVEY
8550.00	1.900	192.200	8369.64	PROJECTION TO BIT