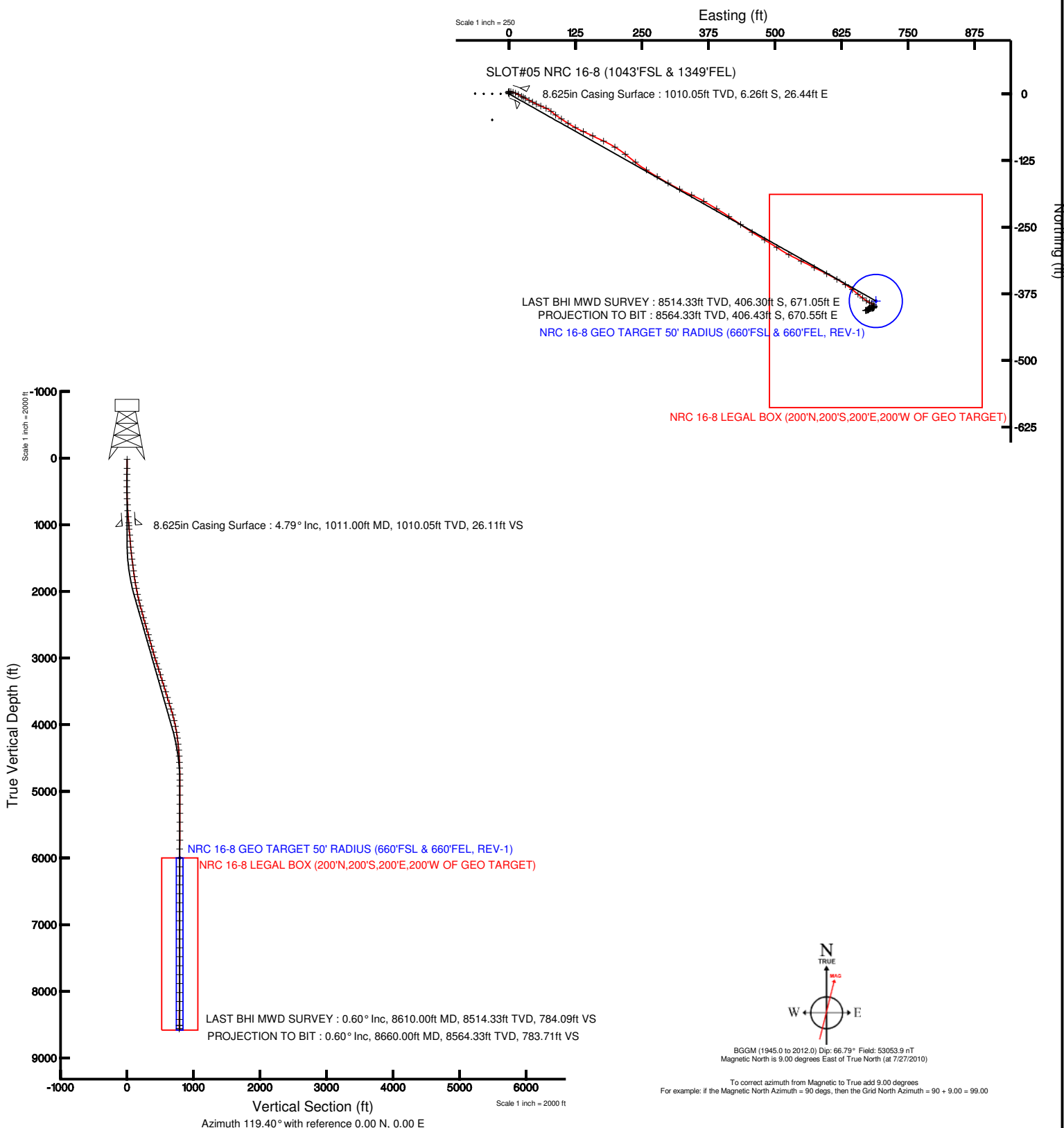


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#05 NRC 16-8 (1043'FSL & 1349'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: NRC 16-8
 Facility: SEC.08-T1N-R67W Wellbore: NRC 16-8 PWB



Plot reference wellpath is NRC 16-8 (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 7/27/2010





Actual Wellpath Report

NRC 16-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 NRC 16-8 (1043'FSL & 1349'FEL)
Area	COLORADO	Well	NRC 16-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 16-8 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 4:13:28 PM
Convergence at slot	0.38° East	Database/Source file	WA_Denver/NRC_16-8_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-0.73	64.10	3165164.11	1265676.16	40°03'40.183"N	104°54'35.705"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	119.40°



Actual Wellpath Report

NRC 16-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 NRC 16-8 (1043'FSL & 1349'FEL)
Area	COLORADO	Well	NRC 16-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 16-8 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	323.300	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	323.300	15.00	0.00	0.00	0.00	0.00	
151.00	1.100	323.300	150.99	-1.19	1.05	-0.78	0.81	
243.00	0.700	340.500	242.98	-2.42	2.28	-1.50	0.52	
335.00	0.600	17.100	334.97	-2.95	3.27	-1.54	0.46	
428.00	0.700	39.000	427.97	-2.96	4.18	-1.04	0.29	
517.00	1.100	88.500	516.96	-2.14	4.63	0.16	0.94	
607.00	2.600	103.200	606.91	0.57	4.18	3.01	1.73	
698.00	2.900	108.200	697.81	4.81	2.99	7.20	0.42	
787.00	3.500	110.300	786.67	9.70	1.35	11.89	0.69	
877.00	4.000	115.500	876.47	15.54	-0.96	17.30	0.67	
967.00	4.800	122.900	966.21	22.43	-4.35	23.29	1.09	
1065.00	4.800	115.500	1063.87	30.61	-8.35	30.44	0.63	
1156.00	5.000	118.000	1154.53	38.38	-11.85	37.38	0.32	
1246.00	4.400	117.700	1244.23	45.75	-15.29	43.90	0.67	
1337.00	5.500	115.200	1334.89	53.59	-18.77	50.93	1.23	
1427.00	6.600	112.400	1424.39	63.02	-22.58	59.62	1.27	
1516.00	7.300	113.400	1512.73	73.72	-26.78	69.54	0.80	
1606.00	6.900	131.400	1602.05	84.70	-32.62	78.84	2.50	
1694.00	7.500	126.800	1689.36	95.57	-39.56	87.40	0.95	
1784.00	9.100	123.300	1778.41	108.49	-46.98	98.06	1.86	
1874.00	10.100	122.200	1867.15	123.48	-55.10	110.68	1.13	
1963.00	10.600	118.700	1954.71	139.46	-63.19	124.47	0.90	
2052.00	11.300	113.400	2042.09	156.31	-70.58	139.65	1.38	
2142.00	13.400	116.300	2130.00	175.50	-78.71	157.09	2.43	
2232.00	15.700	114.500	2217.11	198.05	-88.38	177.53	2.60	
2322.00	15.600	121.500	2303.78	222.27	-99.75	198.93	2.10	
2413.00	14.300	127.900	2391.70	245.62	-113.05	218.23	2.31	
2503.00	17.300	128.600	2478.29	269.83	-128.23	237.46	3.34	
2592.00	15.600	121.900	2563.65	294.85	-142.81	257.97	2.86	
2681.00	15.500	121.200	2649.40	318.69	-155.30	278.30	0.24	
2770.00	15.500	119.400	2735.16	342.47	-167.29	298.83	0.54	
2860.00	16.200	117.300	2821.74	367.04	-178.96	320.47	1.01	
2951.00	15.900	113.800	2909.19	392.14	-189.81	343.15	1.11	
3041.00	17.700	120.100	2995.36	418.09	-201.65	366.27	2.84	
3131.00	18.200	120.800	3080.98	445.82	-215.70	390.18	0.61	
3219.00	17.500	123.300	3164.74	472.76	-230.01	413.05	1.18	
3309.00	17.200	125.400	3250.65	499.50	-245.14	435.20	0.77	
3397.00	17.500	121.900	3334.64	525.66	-259.67	457.04	1.23	
3486.00	18.100	121.200	3419.38	552.84	-273.91	480.23	0.72	
3576.00	17.100	122.200	3505.17	580.03	-288.20	503.38	1.16	
3666.00	16.600	119.100	3591.31	606.11	-301.50	525.81	1.14	
3756.00	17.700	116.300	3677.31	632.62	-313.82	549.31	1.53	
3847.00	17.500	116.300	3764.05	660.10	-326.01	573.98	0.22	
3938.00	15.500	117.000	3851.29	685.91	-337.59	597.08	2.21	



Actual Wellpath Report

NRC 16-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 NRC 16-8 (1043'FSL & 1349'FEL)
Area	COLORADO	Well	NRC 16-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 16-8 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
4028.00	13.000	119.800	3938.52	708.05	-348.09	616.59	2.88	
4118.00	10.900	123.600	4026.57	726.67	-357.83	632.46	2.49	
4209.00	9.700	128.600	4116.10	742.82	-367.37	645.62	1.64	
4297.00	8.000	130.000	4203.05	756.15	-375.93	656.10	1.95	
4387.00	6.200	128.600	4292.35	767.11	-382.99	664.70	2.01	
4478.00	5.300	122.600	4382.90	776.16	-388.32	672.08	1.19	
4568.00	3.000	114.800	4472.66	782.65	-391.55	677.72	2.63	
4659.00	2.800	112.000	4563.54	787.23	-393.38	681.94	0.27	
4747.00	2.600	141.900	4651.45	791.21	-395.76	685.17	1.60	
4838.00	0.600	172.500	4742.41	793.40	-397.85	686.50	2.31	
4928.00	0.600	179.200	4832.40	793.92	-398.79	686.57	0.08	
5018.00	0.500	185.500	4922.40	794.32	-399.65	686.54	0.13	
5153.00	0.400	220.700	5057.39	794.46	-400.60	686.18	0.21	
5289.00	0.400	212.600	5193.39	794.34	-401.36	685.61	0.04	
5425.00	0.300	272.300	5329.39	794.00	-401.74	685.00	0.26	
5560.00	0.300	251.600	5464.39	793.45	-401.84	684.31	0.08	
5694.00	0.200	269.000	5598.38	793.01	-401.96	683.75	0.09	
5828.00	0.300	243.500	5732.38	792.61	-402.12	683.20	0.11	
5961.00	0.600	276.900	5865.38	791.77	-402.19	682.20	0.29	
6095.00	0.400	279.000	5999.37	790.69	-402.03	681.04	0.15	
6230.00	0.600	232.300	6134.37	789.97	-402.39	680.01	0.32	
6364.00	0.400	275.900	6268.36	789.27	-402.77	678.99	0.31	
6499.00	0.200	274.100	6403.36	788.62	-402.70	678.29	0.15	
6633.00	0.300	286.100	6537.36	788.07	-402.59	677.72	0.08	
6768.00	0.200	283.300	6672.36	787.50	-402.44	677.15	0.07	
6903.00	0.100	143.700	6807.36	787.38	-402.48	676.99	0.21	
7039.00	0.300	179.200	6943.36	787.67	-402.93	677.06	0.17	
7174.00	0.400	221.400	7078.36	787.75	-403.64	676.76	0.20	
7310.00	0.400	188.000	7214.35	787.82	-404.46	676.38	0.17	
7444.00	0.400	265.000	7348.35	787.61	-404.97	675.85	0.37	
7578.00	0.100	6.900	7482.35	787.18	-404.89	675.39	0.32	
7714.00	0.200	292.000	7618.35	786.90	-404.69	675.19	0.15	
7847.00	0.200	208.000	7751.35	786.67	-404.80	674.86	0.20	
7982.00	0.100	75.800	7886.35	786.76	-404.98	674.87	0.21	
8117.00	0.400	227.200	8021.35	786.70	-405.27	674.64	0.36	
8252.00	0.100	248.200	8156.35	786.49	-405.64	674.18	0.23	
8387.00	0.700	258.300	8291.34	785.79	-405.85	673.26	0.45	
8521.00	0.500	260.400	8425.34	784.72	-406.11	671.89	0.15	
8610.00	0.600	255.000	8514.33	784.09	-406.30	671.05	0.13	LAST BHI MWD SURVEY
8660.00	0.600	255.000	8564.33	783.71	-406.43	670.55	0.00	PROJECTION TO BIT



Actual Wellpath Report

NRC 16-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 NRC 16-8 (1043'FSL & 1349'FEL)
Area	COLORADO	Well	NRC 16-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 16-8 AWB
Facility	SEC.08-T1N-R67W		

HOLE & CASING SECTIONS Ref Wellbore: NRC 16-8 AWB Ref Wellpath: NRC 16-8 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	1022.00	1007.00	15.00	1021.02	0.00	0.00	-6.71	27.24
8.625in Casing Surface	15.00	1011.00	996.00	15.00	1010.05	0.00	0.00	-6.26	26.44
7.875in Open Hole	1011.00	8666.00	7655.00	1010.05	NA	-6.26	26.44	NA	NA

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
NRC 16-8 GEO TARGET 50' RADIUS (660'FSL & 660'FEL, REV-1)		6000.00	-388.69	689.72	3165856.37	1265292.08	40°03'36.342"N	104°54'26.834"W	circle
NRC 16-8 LEGAL BOX (200'N,200'S,200'E,200'W OF GEO TARGET)		6000.00	-388.69	689.72	3165856.38	1265292.08	40°03'36.342"N	104°54'26.834"W	square

WELLPATH COMPOSITION Ref Wellbore: NRC 16-8 AWB Ref Wellpath: NRC 16-8 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8610.00	NaviTrak (Standard)	BHI MWD <151-8610>	NRC 16-8 AWB
8610.00	8660.00	Blind Drilling (std)	Projection to bit	NRC 16-8 AWB



Actual Wellpath Report

NRC 16-8 AWP

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Area	COLORADO	Well	NRC 16-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 16-8 AWB
Facility	SEC.08-T1N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8610.00	0.600	255.000	8514.33	LAST BHI MWD SURVEY
8660.00	0.600	255.000	8564.33	PROJECTION TO BIT