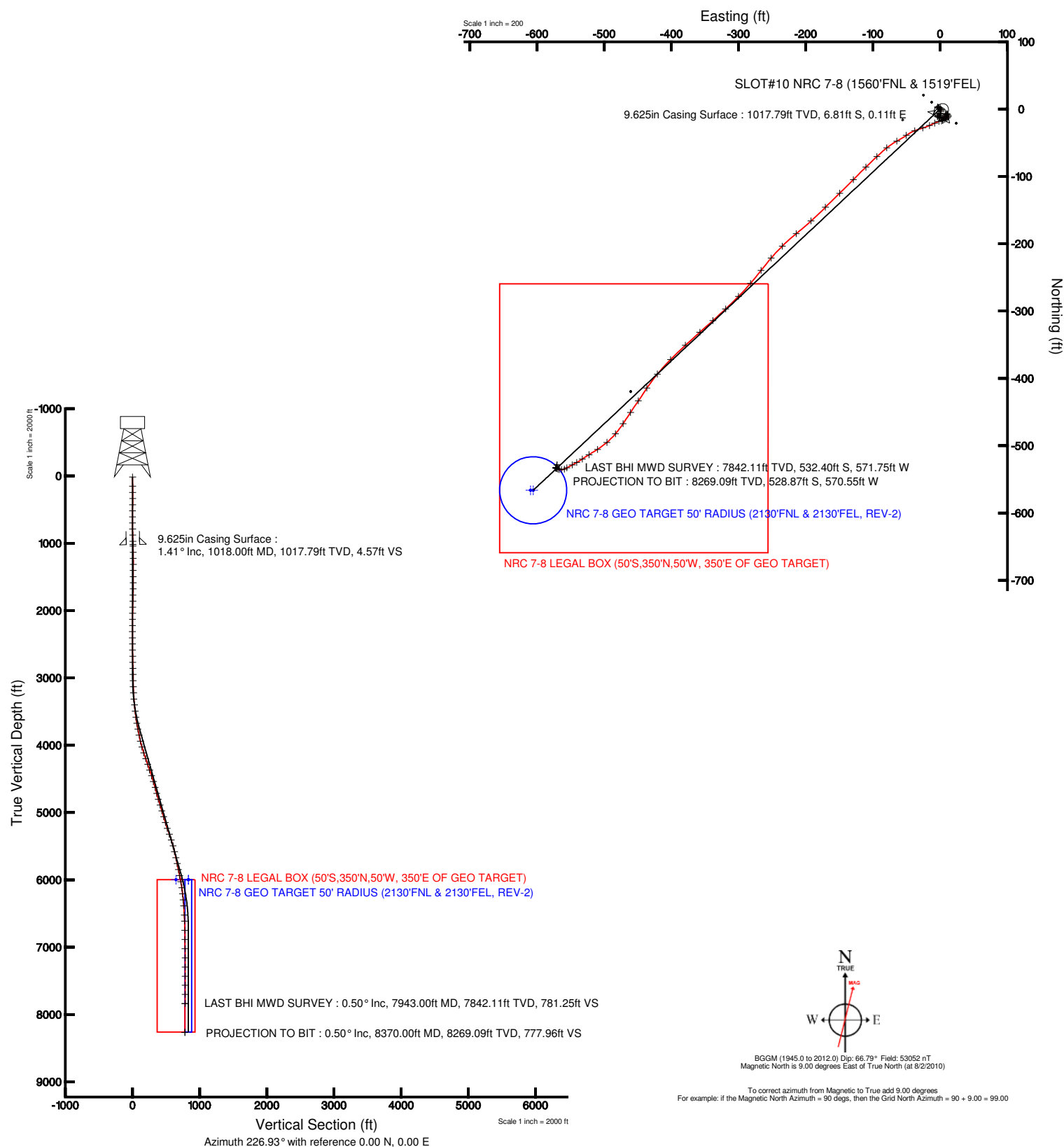


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#10 NRC 7-8 (1560'FNL & 1519'FEL)  
 Field: WELD COUNTY (KERR MCGEE) Well: NRC 7-8  
 Facility: SEC.08-T1N-R67W Wellbore: NRC 7-8 PWB



Plot reference wellpath is NRC 7-8 (REV-C.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: bensjacj on 8/5/2010





# Actual Wellpath Report

NRC 7-8 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 NRC 7-8 (1560'FNL & 1519'FEL)
Area	COLORADO	Well	NRC 7-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 7-8 AWP
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	8/5/2010 at 12:27:51 PM
Convergence at slot	0.38° East	Database/Source file	WA_Denver/NRC_7-8_AWP.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	2678.63	-109.99	3164972.21	1268354.19	40°04'06.661"N	104°54'37.944"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	226.93°



# Actual Wellpath Report

NRC 7-8 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 NRC 7-8 (1560'FNL & 1519'FEL)
Area	COLORADO	Well	NRC 7-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 7-8 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	
151.00	1.100	312.800	150.99	0.09	0.89	-0.96	0.81	
243.00	1.200	311.000	242.97	0.26	2.12	-2.33	0.12	
335.00	0.600	300.800	334.96	0.49	3.00	-3.47	0.67	
427.00	0.700	81.800	426.96	0.16	3.32	-3.33	1.33	
518.00	1.600	108.500	517.94	-0.90	3.00	-1.58	1.13	
608.00	1.600	132.400	607.91	-1.60	1.75	0.54	0.74	
698.00	1.500	169.300	697.88	-1.06	-0.25	1.69	1.10	
788.00	0.400	183.700	787.86	-0.20	-1.72	1.89	1.24	
878.00	1.900	191.100	877.84	1.23	-3.50	1.58	1.67	
970.00	1.300	208.700	969.81	3.46	-5.91	0.79	0.84	
1041.00	1.500	231.200	1040.78	5.15	-7.20	-0.33	0.82	
1132.00	1.500	224.900	1131.75	7.53	-8.79	-2.09	0.18	
1223.00	1.200	230.500	1222.73	9.67	-10.24	-3.67	0.36	
1314.00	1.300	103.600	1313.72	10.06	-11.09	-3.40	2.46	
1404.00	1.200	106.000	1403.70	9.01	-11.59	-1.50	0.13	
1495.00	1.000	122.900	1494.68	8.33	-12.28	0.08	0.42	
1586.00	0.800	115.900	1585.67	7.91	-12.99	1.32	0.25	
1677.00	0.400	131.200	1676.66	7.65	-13.48	2.13	0.47	
1768.00	1.700	57.200	1767.65	6.29	-12.96	3.50	1.80	
1858.00	1.500	57.900	1857.61	3.82	-11.61	5.62	0.22	
1949.00	1.100	48.800	1948.59	1.78	-10.40	7.29	0.49	
2040.00	1.100	50.500	2039.57	0.03	-9.27	8.62	0.04	
2130.00	0.900	34.000	2129.56	-1.52	-8.13	9.68	0.39	
2223.00	0.900	353.600	2222.55	-2.67	-6.80	10.01	0.67	
2314.00	1.200	133.100	2313.54	-3.16	-6.74	10.62	2.17	
2404.00	1.000	147.900	2403.53	-3.07	-8.05	11.73	0.38	
2496.00	1.300	159.200	2495.51	-2.52	-9.71	12.53	0.41	
2587.00	1.100	219.900	2586.49	-1.26	-11.34	12.33	1.35	
2678.00	1.300	230.900	2677.47	0.63	-12.66	10.97	0.33	
2769.00	1.300	237.500	2768.45	2.68	-13.87	9.30	0.16	
2860.00	1.700	248.400	2859.42	4.95	-14.92	7.17	0.54	
2950.00	1.100	232.600	2949.39	7.05	-15.94	5.25	0.79	
3041.00	0.900	245.300	3040.38	8.60	-16.76	3.90	0.33	
3132.00	1.300	262.500	3131.36	10.12	-17.20	2.23	0.57	
3223.00	3.600	253.700	3222.27	13.51	-18.14	-1.54	2.55	
3314.00	4.800	244.600	3313.02	19.69	-20.57	-7.72	1.50	
3404.00	6.000	244.900	3402.62	27.75	-24.18	-15.38	1.33	
3495.00	7.400	254.000	3493.00	37.49	-27.81	-25.32	1.93	
3586.00	8.600	248.400	3583.12	49.04	-31.93	-37.28	1.57	
3677.00	9.800	235.400	3672.95	63.03	-38.84	-49.98	2.63	
3767.00	11.400	242.100	3761.42	79.20	-47.35	-64.15	2.24	
3858.00	11.600	230.500	3850.60	97.01	-57.38	-79.16	2.55	
3949.00	13.400	226.600	3939.45	116.69	-70.44	-93.88	2.18	



# Actual Wellpath Report

NRC 7-8 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 NRC 7-8 (1560'FNL & 1519'FEL)
Area	COLORADO	Well	NRC 7-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 7-8 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
4039.00	15.800	225.900	4026.53	139.37	-86.14	-110.26	2.67	
4130.00	17.700	224.500	4113.67	165.58	-104.63	-128.85	2.13	
4220.00	19.600	226.300	4198.94	194.35	-124.82	-149.36	2.21	
4311.00	18.500	224.200	4284.95	224.03	-145.71	-170.46	1.42	
4402.00	19.400	228.700	4371.03	253.56	-166.04	-191.88	1.89	
4491.00	18.900	230.500	4455.10	282.72	-184.97	-214.11	0.87	
4582.00	16.600	225.200	4541.77	310.43	-203.50	-234.71	3.09	
4672.00	14.900	220.700	4628.39	334.78	-221.34	-251.38	2.32	
4763.00	15.200	217.900	4716.27	358.20	-239.62	-266.34	0.86	
4853.00	16.800	220.700	4802.78	382.78	-258.79	-282.07	1.97	
4944.00	17.100	224.900	4889.83	409.23	-278.24	-300.09	1.39	
5035.00	17.000	227.000	4976.83	435.90	-296.79	-319.26	0.69	
5125.00	16.200	228.000	5063.08	461.61	-314.16	-338.21	0.94	
5216.00	17.100	228.400	5150.27	487.68	-331.54	-357.65	1.00	
5307.00	20.000	227.700	5236.53	516.62	-350.90	-379.17	3.20	
5398.00	19.300	224.500	5322.23	547.20	-372.10	-401.22	1.41	
5489.00	18.100	220.000	5408.43	576.26	-393.66	-420.85	2.06	
5580.00	15.400	213.300	5495.57	602.05	-414.59	-436.57	3.64	
5671.00	13.500	214.300	5583.69	624.16	-433.47	-449.19	2.11	
5761.00	13.200	213.600	5671.26	644.41	-450.70	-460.80	0.38	
5852.00	12.400	214.000	5759.99	664.04	-467.46	-472.01	0.88	
5943.00	11.300	220.000	5849.06	682.42	-482.39	-483.21	1.81	
6035.00	11.700	230.100	5939.22	700.68	-495.28	-496.16	2.23	
6126.00	10.400	237.200	6028.53	717.98	-505.65	-510.15	2.07	
6217.00	8.400	238.200	6118.31	732.58	-513.60	-522.70	2.21	
6307.00	6.900	236.100	6207.50	744.36	-520.08	-532.77	1.70	
6398.00	5.300	241.400	6297.99	753.83	-525.14	-541.00	1.86	
6489.00	4.400	242.500	6388.66	761.26	-528.76	-547.79	0.99	
6625.00	3.200	240.700	6524.36	769.97	-533.03	-555.73	0.89	
6716.00	2.200	247.700	6615.26	774.07	-534.94	-559.56	1.16	
6853.00	1.600	272.300	6752.18	777.87	-535.86	-563.90	0.73	
6989.00	1.100	279.700	6888.14	780.00	-535.56	-567.09	0.39	
7125.00	0.800	298.400	7024.13	781.09	-534.89	-569.21	0.31	
7261.00	0.500	299.400	7160.12	781.57	-534.15	-570.56	0.22	
7398.00	0.400	282.200	7297.11	782.02	-533.75	-571.55	0.12	
7534.00	0.100	315.600	7433.11	782.30	-533.57	-572.09	0.24	
7670.00	0.200	297.300	7569.11	782.38	-533.37	-572.39	0.08	
7805.00	0.300	65.300	7704.11	782.12	-533.12	-572.28	0.33	
7943.00	0.500	18.900	7842.11	781.25	-532.40	-571.75	0.26	LAST BHI MWD SURVEY
8370.00	0.500	18.900	8269.09	777.96	-528.87	-570.55	0.00	PROJECTION TO BIT



# Actual Wellpath Report

NRC 7-8 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 NRC 7-8 (1560'FNL & 1519'FEL)
Area	COLORADO	Well	NRC 7-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 7-8 AWB
Facility	SEC.08-T1N-R67W		

## HOLE & CASING SECTIONS Ref Wellbore: NRC 7-8 AWB Ref Wellpath: NRC 7-8 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	1024.79	0.00	0.00	-6.93	-0.02
9.625in Casing Surface	15.00	1018.00	1003.00	15.00	1017.79	0.00	0.00	-6.81	0.11
7.875in Open Hole	1018.00	8370.00	7352.00	1017.79	8269.09	-6.81	0.11	-528.87	-570.55

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
NRC 7-8 GEO TARGET 50' RADIUS (2130'FNL & 2130'FEL, REV-2)		6000.00	-566.47	-605.88	3164370.13	1267783.73	40°04'01.063"N	104°54'45.737"W	circle
NRC 7-8 LEGAL BOX (50'S,350'N,50'W, 350'E OF GEO TARGET)		6000.00	-459.47	-455.88	3164519.41	1267891.72	40°04'02.121"N	104°54'43.808"W	square
NRC 7-8 BHL ON PLAT (2130'FNL & 2126'FEL, REV-1)		6000.00	-566.47	-609.88	3164366.13	1267783.71	40°04'01.063"N	104°54'45.788"W	point

## WELLPATH COMPOSITION Ref Wellbore: NRC 7-8 AWB Ref Wellpath: NRC 7-8 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	970.00	NaviTrak (Standard)	BHI MWD 12.25" HOLE <151-970>	NRC 7-8 AWB
970.00	7943.00	NaviTrak (Standard)	BHI MWD 7.875" HOLE <1041-7943>	NRC 7-8 AWB
7943.00	8370.00	Blind Drilling (std)	Projection to bit	NRC 7-8 AWB



# Actual Wellpath Report

NRC 7-8 AWP

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**INTEQ**

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 NRC 7-8 (1560'FNL & 1519'FEL)
Area	COLORADO	Well	NRC 7-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 7-8 AWB
Facility	SEC.08-T1N-R67W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7943.00	0.500	18.900	7842.11	LAST BHI MWD SURVEY
8370.00	0.500	18.900	8269.09	PROJECTION TO BIT