

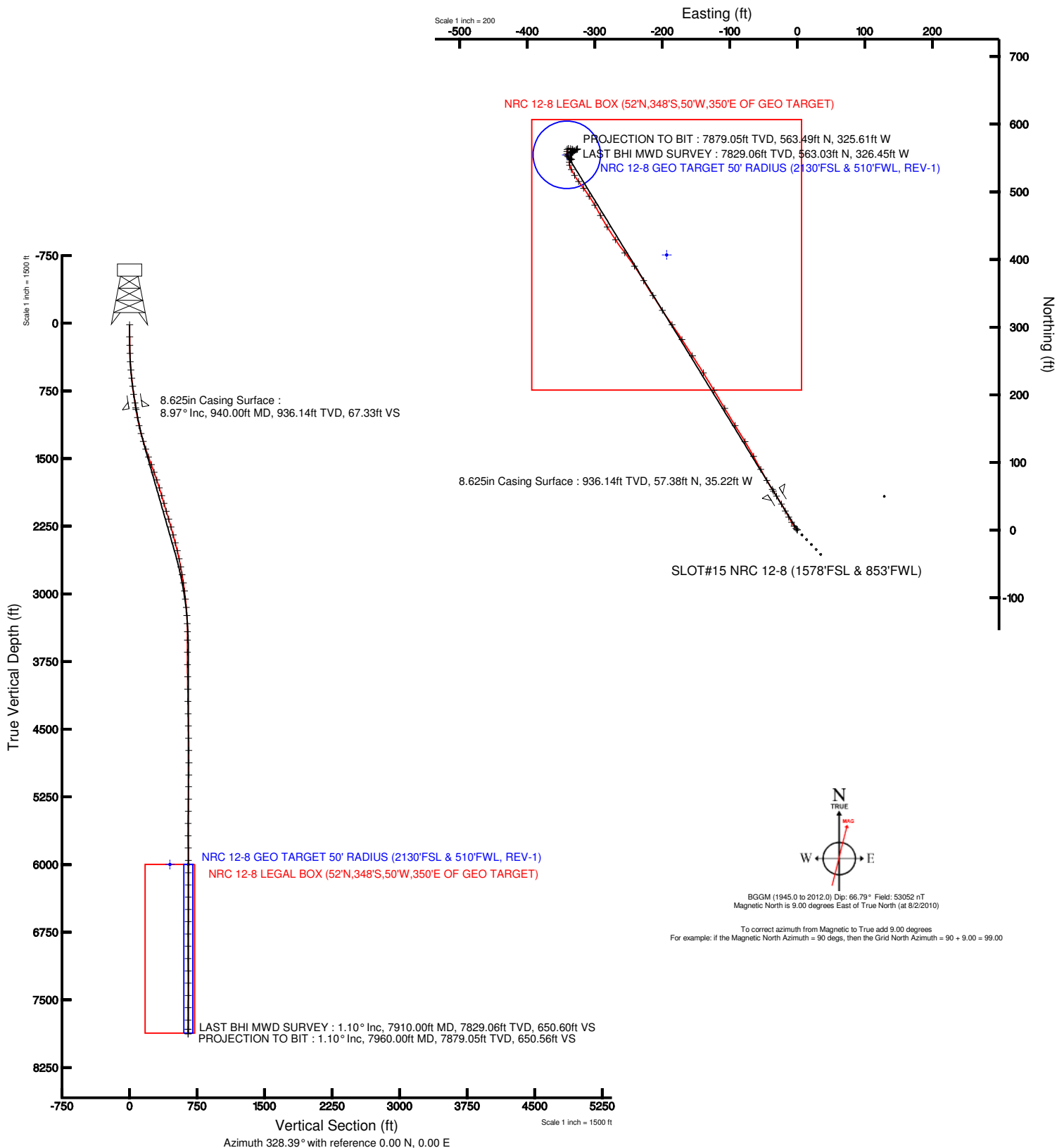
KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#15 NRC 12-8 (1578'FSL & 853'FWL)
 Field: WELD COUNTY (KERR MCGEE) Well: NRC 12-8
 Facility: SEC.08-T1N-R67W Wellbore: NRC 12-8 PWB



Plot reference wellpath is NRC 12-8 (REV-B.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: 5041 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 8/19/2010





Actual Wellpath Report

NRC 12-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#15 NRC 12-8 (1578'FSL & 853'FWL)
Area	COLORADO	Well	NRC 12-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 12-8 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	8/19/2010 at 1:04:32 PM
Convergence at slot	0.37° East	Database/Source file	WA_Denver/NRC_12-8_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	563.01	-3006.76	3162089.69	1266219.44	40°03'45.752"N	104°55'15.200"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	5041.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RT) to Mean Sea Level	5041.00ft
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	328.39°



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REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	NRC 12-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 12-8 AWP
Facility	SEC.08-T1N-R67W		

WELLPATH DATA (74 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	351.800	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	351.800	15.00	0.00	0.00	0.00	0.00	
151.00	0.200	351.800	151.00	0.22	0.23	-0.03	0.15	
242.00	0.800	308.600	242.00	0.96	0.79	-0.55	0.73	
333.00	2.000	320.900	332.97	3.13	2.42	-2.05	1.35	
426.00	3.000	323.000	425.88	7.17	5.62	-4.54	1.08	
518.00	5.500	329.300	517.62	13.97	11.33	-8.24	2.76	
608.00	6.000	331.400	607.16	22.98	19.17	-12.69	0.60	
699.00	6.800	331.400	697.60	33.11	28.08	-17.55	0.88	
790.00	8.000	329.000	787.84	44.82	38.24	-23.39	1.36	
885.00	8.900	328.200	881.81	58.78	50.15	-30.67	0.96	
959.00	9.000	327.200	954.90	70.29	59.88	-36.82	0.25	
1050.00	10.800	330.300	1044.55	85.93	73.27	-44.90	2.06	
1141.00	13.100	331.000	1133.57	104.76	89.70	-54.12	2.53	
1232.00	14.900	331.000	1221.86	126.75	108.95	-64.80	1.98	
1322.00	17.400	328.900	1308.30	151.77	130.60	-77.36	2.85	
1413.00	18.400	328.000	1394.90	179.74	154.43	-92.00	1.14	
1504.00	20.000	329.300	1480.83	209.66	179.99	-107.56	1.82	
1595.00	19.900	329.000	1566.37	240.71	206.65	-123.48	0.16	
1685.00	19.300	327.900	1651.16	270.90	232.38	-139.27	0.78	
1776.00	19.100	327.200	1737.10	300.82	257.63	-155.33	0.34	
1867.00	17.300	327.000	1823.54	329.23	281.50	-170.76	1.98	
1958.00	16.600	325.000	1910.59	355.74	303.49	-185.59	1.00	
2048.00	16.700	327.200	1996.81	381.50	324.89	-199.97	0.71	
2139.00	16.400	327.200	2084.04	407.42	346.68	-214.01	0.33	
2230.00	16.600	329.300	2171.30	433.26	368.66	-227.60	0.69	
2321.00	16.000	325.400	2258.64	458.78	390.16	-241.36	1.37	
2412.00	15.000	323.200	2346.33	483.03	409.91	-255.54	1.27	
2502.00	15.300	326.000	2433.21	506.50	429.08	-269.16	0.88	
2593.00	13.500	327.900	2521.34	529.11	448.04	-281.52	2.04	
2684.00	11.600	331.400	2610.17	548.87	465.07	-291.54	2.25	
2775.00	10.500	330.000	2699.48	566.30	480.28	-300.07	1.24	
2865.00	9.400	326.100	2788.12	581.84	493.48	-308.27	1.43	
2956.00	8.900	324.000	2877.97	596.29	505.35	-316.55	0.66	
3047.00	7.000	323.000	2968.09	608.83	515.47	-324.02	2.09	
3138.00	6.600	331.000	3058.45	619.57	524.47	-329.90	1.13	
3229.00	5.600	331.000	3148.93	629.23	532.93	-334.58	1.10	
3319.00	3.300	347.600	3238.66	636.07	539.30	-337.27	2.90	
3410.00	2.900	3.400	3329.53	640.42	544.16	-337.70	1.03	
3501.00	1.700	50.900	3420.46	642.49	547.31	-336.51	2.37	
3592.00	0.400	93.400	3511.44	642.48	548.14	-335.15	1.57	
3728.00	0.200	106.000	3647.44	642.03	548.05	-334.45	0.15	
3864.00	0.600	301.000	3783.44	642.49	548.35	-334.83	0.58	
4000.00	0.900	299.400	3919.43	644.06	549.24	-336.37	0.22	
4136.00	0.900	321.600	4055.41	646.05	550.60	-337.96	0.25	



Actual Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#15 NRC 12-8 (1578'FSL & 853'FWL)
Area	COLORADO	Well	NRC 12-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 12-8 AWP
Facility	SEC.08-T1N-R67W		

WELLPATH DATA (74 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4272.00	1.000	308.000	4191.39	648.22	552.17	-339.56	0.18	
4409.00	0.900	328.600	4328.37	650.42	553.82	-341.06	0.26	
4545.00	1.100	8.000	4464.36	652.49	556.03	-341.44	0.51	
4681.00	1.900	359.900	4600.31	655.42	559.58	-341.26	0.61	
4817.00	0.900	19.000	4736.27	658.02	562.84	-340.92	0.80	
4954.00	1.100	71.300	4873.25	658.41	564.28	-339.32	0.66	
5090.00	1.500	116.300	5009.22	656.61	563.91	-336.49	0.78	
5219.00	1.000	78.600	5138.19	654.79	563.38	-333.87	0.73	
5355.00	1.000	178.100	5274.17	653.35	562.43	-332.67	1.12	
5491.00	0.800	176.100	5410.16	651.48	560.30	-332.56	0.15	
5627.00	0.500	174.600	5546.15	650.11	558.76	-332.44	0.22	
5763.00	0.900	267.100	5682.14	650.09	558.12	-333.46	0.77	
5899.00	0.400	305.400	5818.13	651.04	558.34	-334.91	0.47	
6035.00	0.200	262.100	5954.13	651.57	558.58	-335.53	0.21	
6172.00	0.200	178.500	6091.13	651.46	558.31	-335.76	0.19	
6308.00	0.300	326.100	6227.13	651.61	558.37	-335.95	0.35	
6444.00	0.200	211.500	6363.13	651.86	558.46	-336.28	0.31	
6580.00	0.200	180.200	6499.13	651.55	558.02	-336.40	0.08	
6716.00	0.200	137.000	6635.13	651.11	557.61	-336.24	0.11	
6852.00	0.300	90.600	6771.13	650.69	557.43	-335.72	0.16	
6988.00	0.500	73.000	6907.12	650.35	557.60	-334.80	0.17	
7124.00	0.400	19.900	7043.12	650.50	558.22	-334.07	0.30	
7263.00	0.400	32.200	7182.12	651.01	559.09	-333.65	0.06	
7398.00	0.600	61.000	7317.11	651.19	559.83	-332.78	0.23	
7535.00	0.600	66.000	7454.10	651.06	560.47	-331.49	0.04	
7670.00	0.700	66.700	7589.09	650.85	561.08	-330.09	0.07	
7807.00	1.100	60.400	7726.08	650.68	562.06	-328.18	0.30	
7910.00	1.100	61.100	7829.06	650.60	563.03	-326.45	0.01	LAST BHI MWD SURVEY
7960.00	1.100	61.100	7879.05	650.56	563.49	-325.61	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: NRC 12-8 AWP Ref Wellpath: NRC 12-8 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	940.00	925.00	15.00	936.14	0.00	0.00	57.38	-35.22
8.625in Casing Surface	15.00	940.00	925.00	15.00	936.14	0.00	0.00	57.38	-35.22
7.875in Open Hole	940.00	7960.00	7020.00	936.14	7879.05	57.38	-35.22	563.49	-325.61



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INTEQ

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Facility	SEC.08-T1N-R67W		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
NRC 12-8 GEO TARGET 50' RADIUS (2130'FSL & 510'FWL, REV-1)		6000.00	554.82	-341.48	3161744.61	1266771.99	40°03'51.235"N	104°55'19.592"W	circle
NRC 12-8 LEGAL BOX (52'N,348'S,50'W,350'E OF GEO TARGET)		6000.00	406.82	-193.48	3161893.57	1266624.97	40°03'49.773"N	104°55'17.689"W	square

WELLPATH COMPOSITION Ref Wellbore: NRC 12-8 AWB Ref Wellpath: NRC 12-8 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	7910.00	NaviTrak (Standard)	BHI MWD SURVEYS <151-7910>	NRC 12-8 AWB
7910.00	7960.00	Blind Drilling (std)	Projection to bit	NRC 12-8 AWB



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 12-8 AWB
Facility	SEC.08-T1N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7910.00	1.100	61.100	7829.06	LAST BHI MWD SURVEY
7960.00	1.100	61.100	7879.05	PROJECTION TO BIT