





# Actual Wellpath Report

NRC 15-8 AWP

Page 1 of 5



**INTEQ**

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#02 NRC 15-8 (1043'FSL & 1397'FEL)
Area	COLORADO	Well	NRC 15-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 15-8 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 4:01:40 PM
Convergence at slot	0.38° East	Database/Source file	WA_Denver/NRC_15-8_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-0.36	16.23	3165116.25	1265676.20	40°03'40.187"N	104°54'36.320"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	5071.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RT) to Mean Sea Level	5071.00ft
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	234.31°



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Page 2 of 5



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## WELLPATH DATA (87 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	300.500	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	300.500	15.00	0.00	0.00	0.00	0.00	
152.00	1.300	300.500	151.99	0.63	0.79	-1.34	0.95	
243.00	1.600	238.600	242.96	2.31	0.65	-3.31	1.66	
337.00	3.600	223.100	336.86	6.52	-2.19	-6.45	2.24	
428.00	4.700	210.800	427.63	12.74	-7.48	-10.31	1.55	
520.00	6.500	217.900	519.18	21.19	-14.82	-15.44	2.09	
609.00	7.500	214.700	607.52	31.49	-23.57	-21.84	1.21	
699.00	8.400	223.800	696.66	43.49	-33.15	-29.74	1.72	
790.00	8.400	236.500	786.69	56.67	-41.62	-39.88	2.03	
880.00	9.200	237.200	875.63	70.42	-49.14	-51.41	0.90	
970.00	9.600	237.200	964.42	85.10	-57.10	-63.77	0.44	
1075.00	9.900	234.000	1067.90	102.87	-67.15	-78.43	0.59	
1164.00	9.900	231.900	1155.58	118.17	-76.37	-90.64	0.41	
1254.00	10.300	225.600	1244.19	133.85	-86.77	-102.48	1.30	
1343.00	11.300	233.000	1331.61	150.44	-97.59	-115.12	1.92	
1434.00	13.000	235.100	1420.57	169.59	-108.81	-130.64	1.93	
1524.00	15.500	236.500	1507.80	191.73	-121.24	-148.97	2.80	
1614.00	16.400	235.800	1594.33	216.45	-135.02	-169.51	1.02	
1704.00	16.400	235.100	1680.67	241.85	-149.43	-190.44	0.22	
1794.00	16.400	230.200	1767.01	267.23	-164.84	-210.62	1.54	
1884.00	16.500	231.200	1853.33	292.66	-180.98	-230.34	0.33	
1974.00	15.600	230.900	1939.82	317.51	-196.62	-249.70	1.00	
2062.00	15.600	231.600	2024.58	341.14	-211.43	-268.15	0.21	
2153.00	16.200	238.200	2112.10	366.03	-225.72	-288.53	2.09	
2242.00	17.000	237.500	2197.39	391.40	-239.25	-310.06	0.93	
2331.00	17.700	238.600	2282.34	417.89	-253.29	-332.58	0.87	
2421.00	16.300	235.100	2368.41	444.16	-267.65	-354.62	1.93	
2510.00	16.300	236.500	2453.83	469.13	-281.69	-375.27	0.44	
2600.00	16.400	237.900	2540.19	494.43	-295.41	-396.57	0.45	
2691.00	16.400	235.400	2627.49	520.10	-309.53	-418.03	0.78	
2782.00	15.600	233.000	2714.97	545.17	-324.19	-438.37	1.14	
2872.00	15.700	233.700	2801.63	569.45	-338.68	-457.85	0.24	
2961.00	15.200	236.500	2887.42	593.15	-352.25	-477.29	1.01	
3051.00	16.800	240.000	2973.93	617.88	-365.27	-498.39	2.08	
3141.00	16.300	239.600	3060.20	643.40	-378.16	-520.55	0.57	
3230.00	14.900	236.800	3145.92	667.27	-390.75	-540.90	1.79	
3321.00	14.900	243.500	3233.87	690.51	-402.38	-561.16	1.89	
3411.00	15.900	239.200	3320.64	714.22	-413.85	-582.10	1.69	
3501.00	16.500	239.400	3407.08	739.24	-428.49	-602.40	3.11	
3590.00	15.900	227.000	3492.55	763.93	-445.03	-620.91	1.01	
3679.00	12.800	224.900	3578.76	785.75	-460.33	-636.79	3.53	
3769.00	10.600	235.800	3666.90	803.86	-472.05	-650.68	3.46	
3859.00	10.700	242.100	3755.35	820.42	-480.61	-664.91	1.30	
3947.00	9.300	238.200	3842.01	835.61	-488.18	-678.18	1.77	



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NRC 15-8 AWP

Page 3 of 5



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 15-8 AWB
Facility	SEC.08-T1N-R67W		

## WELLPATH DATA (87 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4038.00	7.600	239.300	3932.02	848.94	-495.13	-689.60	1.88	
4128.00	6.200	238.300	4021.37	859.72	-500.72	-698.85	1.56	
4218.00	5.300	245.600	4110.91	868.64	-504.99	-706.77	1.29	
4308.00	4.900	248.400	4200.56	876.45	-508.12	-714.13	0.52	
4399.00	3.100	246.300	4291.33	882.62	-510.54	-720.00	1.98	
4489.00	2.800	252.000	4381.21	887.10	-512.20	-724.32	0.47	
4579.00	2.600	242.800	4471.11	891.21	-513.81	-728.22	0.53	
4669.00	1.300	274.100	4561.06	894.01	-514.67	-731.06	1.82	
4760.00	1.200	293.800	4652.04	895.29	-514.21	-732.96	0.48	
4849.00	1.800	300.500	4741.01	896.33	-513.13	-735.02	0.70	
4939.00	1.400	280.400	4830.97	897.66	-512.21	-737.32	0.76	
5029.00	1.200	148.200	4920.96	898.49	-512.81	-737.90	2.64	
5118.00	1.200	143.700	5009.94	898.54	-514.36	-736.86	0.11	
5208.00	1.300	127.500	5099.92	898.24	-515.74	-735.49	0.41	
5299.00	1.100	148.200	5190.90	898.00	-517.11	-734.21	0.52	
5388.00	1.100	155.300	5279.89	898.22	-518.61	-733.40	0.15	
5477.00	0.600	135.200	5368.88	898.31	-519.72	-732.72	0.65	
5613.00	0.500	12.500	5504.87	897.75	-519.64	-732.09	0.71	
5748.00	0.200	33.600	5639.87	897.09	-518.87	-731.83	0.24	
5883.00	0.100	251.600	5774.87	896.98	-518.71	-731.81	0.21	
6018.00	0.300	194.700	5909.87	897.37	-519.09	-732.01	0.19	
6154.00	0.300	191.500	6045.87	897.90	-519.79	-732.18	0.01	
6288.00	0.400	167.600	6179.87	898.35	-520.59	-732.14	0.13	
6422.00	0.400	193.300	6313.86	898.89	-521.50	-732.15	0.13	
6557.00	0.400	191.500	6448.86	899.59	-522.42	-732.35	0.01	
6692.00	0.300	184.500	6583.86	900.16	-523.23	-732.48	0.08	
6827.00	0.200	98.000	6718.86	900.22	-523.62	-732.27	0.26	
6962.00	0.400	66.300	6853.85	899.59	-523.46	-731.61	0.19	
7096.00	0.200	101.100	6987.85	898.97	-523.32	-730.95	0.20	
7231.00	0.600	192.900	7122.85	899.34	-524.05	-730.87	0.47	
7366.00	0.700	210.800	7257.84	900.62	-525.45	-731.45	0.17	
7501.00	0.700	228.400	7392.83	902.20	-526.71	-732.49	0.16	
7638.00	0.300	150.700	7529.83	903.07	-527.57	-732.94	0.51	
7773.00	0.400	126.100	7664.82	902.97	-528.16	-732.39	0.13	
7908.00	0.700	95.900	7799.82	902.20	-528.52	-731.19	0.30	
8041.00	0.600	115.500	7932.81	901.26	-528.91	-729.75	0.18	
8177.00	0.400	180.900	8068.81	901.20	-529.69	-729.12	0.42	
8312.00	0.500	172.500	8203.80	901.76	-530.74	-729.05	0.09	
8446.00	0.300	150.400	8337.80	902.07	-531.63	-728.80	0.19	
8579.00	0.400	287.100	8470.80	902.39	-531.79	-729.07	0.49	
8655.00	1.000	234.000	8546.79	903.21	-532.11	-729.86	1.08	LAST BHI MWD SURVEY
8705.00	1.000	234.000	8596.78	904.08	-532.62	-730.57	0.00	PROJECTION TO BIT



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NRC 15-8 AWP

Page 4 of 5



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 15-8 AWB
Facility	SEC.08-T1N-R67W		

HOLE & CASING SECTIONS Ref Wellbore: NRC 15-8 AWB Ref Wellpath: NRC 15-8 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	1018.64	0.00	0.00	-62.23	-71.46
8.625in Casing Surface	15.00	1016.00	1001.00	15.00	1009.77	0.00	0.00	-61.37	-70.20
7.875in Open Hole	1016.00	8705.00	7689.00	1009.77	8596.78	-61.37	-70.20	-532.62	-730.57

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
NRC 15-8 GEO TARGET 50' RADIUS (510'FSL & 2130'FEL, REV-1)		6000.00	-526.02	-732.27	3164387.52	1265145.34	40°03'34.988"N	104°54'45.738"W	circle
NRC 15-8 LEGAL BOX (50'S,350'N,50'W,350'E OF GEO TARGET)		6000.00	-376.02	-582.27	3164536.52	1265296.33	40°03'36.471"N	104°54'43.809"W	square

WELLPATH COMPOSITION Ref Wellbore: NRC 15-8 AWB Ref Wellpath: NRC 15-8 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8655.00	NaviTrak (Standard)	BHI MWD <152-8655>	NRC 15-8 AWB
8655.00	8705.00	Blind Drilling (std)	Projection to bit	NRC 15-8 AWB



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Page 5 of 5



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Facility	SEC.08-T1N-R67W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8655.00	1.000	234.000	8546.79	LAST BHI MWD SURVEY
8705.00	1.000	234.000	8596.78	PROJECTION TO BIT