





# Actual Wellpath Report

COOK 2-9 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 COOK 2-9 (2406'FNL & 2623'FWL)
Area	COLORADO	Well	COOK 2-9
Field	WELD COUNTY (KERR MCGEE)	Wellbore	COOK 2-9 AWB
Facility	SEC.09-T2N-R65W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.1
North Reference	True	User	Cookdanm
Scale	0.999958	Report Generated	7/26/2011 at 3:53:04 PM
Convergence at slot	0.54° East	Database/Source file	WA_DENVER/COOK_2-9_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	2605.54	2177.57	3232300.07	1300001.29	40°09'14.076"N	104°40'08.126"W
Facility Reference Pt			3230146.88	1297375.76	40°08'48.329"N	104°40'36.170"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 15 (RKB) to Facility Vertical Datum	4888.00ft
Horizontal Reference Pt	Slot	XTREME 15 (RKB) to Mean Sea Level	4888.00ft
Vertical Reference Pt	XTREME 15 (RKB)	XTREME 15 (RKB) to Mud Line at Slot (SLOT#12 COOK 2-9 (2406'FNL & 2623'FWL))	4888.00ft
MD Reference Pt	XTREME 15 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	16.75°



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## WELLPATH DATA (81 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	238.700	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	238.700	15.00	0.00	0.00	0.00	0.00	
153.00	0.400	238.700	153.00	-0.36	-0.25	-0.41	0.29	
245.00	1.200	357.200	244.99	0.31	0.55	-0.73	1.56	
338.00	3.400	15.400	337.91	3.99	4.18	-0.05	2.46	
429.00	6.600	22.900	428.56	11.89	11.60	2.70	3.58	
517.00	7.900	19.700	515.85	22.95	21.95	6.71	1.55	
606.00	8.900	20.400	603.89	35.93	34.16	11.17	1.13	
695.00	10.300	19.700	691.65	50.75	48.11	16.25	1.58	
792.00	11.400	19.400	786.91	68.99	65.31	22.36	1.14	
882.00	12.900	22.900	874.89	87.86	82.96	29.23	1.86	
971.00	14.900	25.300	961.28	109.06	102.46	37.98	2.34	
1060.00	16.900	27.100	1046.87	133.10	124.32	48.77	2.31	
1150.00	19.000	22.200	1132.49	160.56	149.54	60.26	2.87	
1238.00	20.800	18.700	1215.24	190.44	177.60	70.69	2.45	
1327.00	22.900	19.700	1297.84	223.53	208.88	81.59	2.40	
1417.00	25.000	16.200	1380.09	260.04	243.63	92.80	2.82	
1506.00	25.000	15.100	1460.75	297.64	279.85	102.95	0.52	
1595.00	25.300	13.000	1541.32	335.42	316.53	112.13	1.06	
1683.00	26.600	13.000	1620.44	373.84	354.05	120.79	1.48	
1770.00	27.100	12.700	1698.06	413.05	392.36	129.53	0.60	
1860.00	27.000	11.300	1778.22	453.83	432.40	138.04	0.72	
1951.00	27.200	9.900	1859.23	495.05	473.14	145.66	0.73	
2040.00	28.000	10.900	1938.10	536.02	513.69	153.11	1.04	
2131.00	26.900	10.600	2018.86	577.74	554.91	160.93	1.22	
2219.00	26.200	14.800	2097.58	616.95	593.26	169.56	2.28	
2308.00	26.400	13.700	2177.37	656.35	631.48	179.26	0.59	
2397.00	26.500	14.800	2257.05	695.95	669.90	189.02	0.56	
2487.00	27.500	15.100	2337.24	736.79	709.37	199.56	1.12	
2573.00	28.000	15.900	2413.35	776.82	747.96	210.27	0.72	
2662.00	27.400	16.200	2492.15	818.19	787.72	221.70	0.69	
2749.00	27.200	15.500	2569.46	858.09	826.10	232.60	0.43	
2839.00	26.500	16.600	2649.76	898.73	865.17	243.84	0.95	
2930.00	27.200	15.100	2730.95	939.82	904.70	255.05	1.07	
3018.00	27.300	15.900	2809.18	980.11	943.53	265.82	0.43	
3105.00	28.700	16.600	2886.00	1020.95	982.74	277.26	1.65	
3192.00	28.000	16.600	2962.56	1062.26	1022.33	289.06	0.80	
3280.00	28.500	18.700	3040.08	1103.90	1062.01	301.69	1.26	
3369.00	27.800	19.700	3118.56	1145.85	1101.67	315.50	0.95	
3460.00	27.600	21.800	3199.13	1188.04	1141.22	330.48	1.09	
3550.00	27.900	21.800	3278.78	1229.78	1180.13	346.04	0.33	
3639.00	27.400	22.500	3357.61	1270.90	1218.38	361.61	0.67	
3728.00	26.800	19.700	3436.84	1311.32	1256.19	376.21	1.58	
3818.00	26.500	17.300	3517.29	1351.66	1294.46	389.02	1.24	
3907.00	27.400	17.600	3596.62	1391.99	1332.94	401.12	1.02	
3996.00	27.200	16.200	3675.71	1432.81	1372.00	412.99	0.76	
4084.00	27.500	17.300	3753.87	1473.23	1410.71	424.64	0.67	
4173.00	26.300	17.600	3833.24	1513.50	1449.12	436.71	1.36	
4261.00	26.800	17.300	3911.96	1552.83	1486.65	448.51	0.59	
4351.00	27.100	16.600	3992.19	1593.62	1525.66	460.40	0.49	
4441.00	27.700	18.000	4072.09	1635.03	1565.20	472.72	0.98	
4530.00	27.000	18.300	4151.14	1675.91	1604.06	485.45	0.80	
4620.00	25.000	20.400	4232.03	1715.31	1641.28	498.50	2.45	
4709.00	23.000	19.700	4313.33	1751.45	1675.28	510.92	2.27	
4799.00	20.000	16.900	4397.06	1784.41	1706.57	521.32	3.52	

4888.00	19.600	14.100	4480.80	1814.54	1735.61	529.38	1.16	
4978.00	17.600	15.900	4566.10	1843.23	1763.34	536.79	2.31	
5065.00	16.200	14.100	4649.34	1868.50	1787.77	543.35	1.72	
5154.00	12.000	16.900	4735.64	1890.17	1808.67	549.07	4.78	
5243.00	9.300	18.700	4823.10	1906.61	1824.34	554.06	3.06	



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	COOK 2-9 AWB
Facility	SEC.09-T2N-R65W		

## WELLPATH DATA (81 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5331.00	6.900	9.900	4910.22	1918.97	1836.28	557.25	3.06	
5420.00	4.900	17.600	4998.74	1928.08	1845.17	559.32	2.41	
5509.00	2.400	18.700	5087.55	1933.74	1850.56	561.07	2.81	
5597.00	1.700	266.500	5175.52	1935.13	1852.23	560.35	3.89	
5686.00	0.400	258.400	5264.51	1934.53	1852.08	558.73	1.47	
5819.00	0.200	352.300	5397.50	1934.52	1852.22	558.25	0.35	
5954.00	0.500	40.800	5532.50	1935.27	1852.90	558.60	0.29	
6088.00	0.800	18.700	5666.49	1936.74	1854.23	559.28	0.29	
6220.00	1.600	93.200	5798.09	1938.09	1855.00	561.42	1.20	
6356.00	1.700	130.500	5934.42	1937.72	1853.58	564.85	0.78	
6491.00	1.200	169.100	6069.38	1935.66	1850.89	566.64	0.79	
6621.00	1.400	158.300	6199.34	1933.21	1848.08	567.48	0.24	
6757.00	1.400	137.500	6335.30	1931.06	1845.31	569.22	0.37	
6889.00	1.300	127.600	6467.27	1929.71	1843.21	571.49	0.19	
7024.00	1.100	136.400	6602.24	1928.52	1841.34	573.60	0.20	
7156.00	0.800	134.000	6734.22	1927.47	1839.78	575.14	0.23	
7291.00	0.400	163.500	6869.21	1926.65	1838.67	575.95	0.37	
7425.00	0.300	205.300	7003.21	1925.91	1837.91	575.93	0.20	
7558.00	0.300	205.300	7136.21	1925.22	1837.28	575.64	0.00	
7715.00	0.700	140.300	7293.20	1924.28	1836.17	576.07	0.40	LAST BHI MWD SURVEY
7765.00	0.700	140.300	7343.20	1923.95	1835.70	576.46	0.00	PROJECTION TO BIT

## HOLE & CASING SECTIONS - Ref Wellbore: COOK 2-9 AWB Ref Wellpath: COOK 2-9 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	750.00	735.00	15.00	745.71	0.00	0.00	57.65	19.65
8.625in Casing Surface	15.00	740.00	725.00	15.00	735.88	0.00	0.00	55.87	19.02
7.875in Open Hole	750.00	7765.00	7015.00	745.71	7343.20	57.65	19.65	1835.70	576.46

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
COOK 2-9 GEO TARGET 50' TARGET (560'FNL & 2120'FEL, REV-1)		6000.00	1843.75	554.86	3232837.60	1301850.08	40°09'32.296"N	104°40'00.980"W	circle
COOK 2-9 LEGAL BOX (94'N,306'S,64'W,336'E OF GEO TARGET)		6000.00	1737.71	690.83	3232974.55	1301745.33	40°09'31.248"N	104°39'59.229"W	square

## WELLPATH COMPOSITION - Ref Wellbore: COOK 2-9 AWB Ref Wellpath: COOK 2-9 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	7715.00	NaviTrak (Standard)	BHI MWD SURVEYS <	COOK 2-9 AWB
7715.00	7765.00	Blind Drilling (std)	Projection to bit	COOK 2-9 AWB



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## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7715.00	0.700	140.300	7293.20	LAST BHI MWD SURVEY
7765.00	0.700	140.300	7343.20	PROJECTION TO BIT