

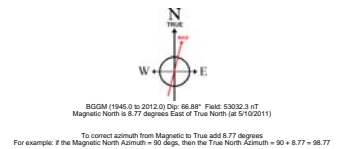
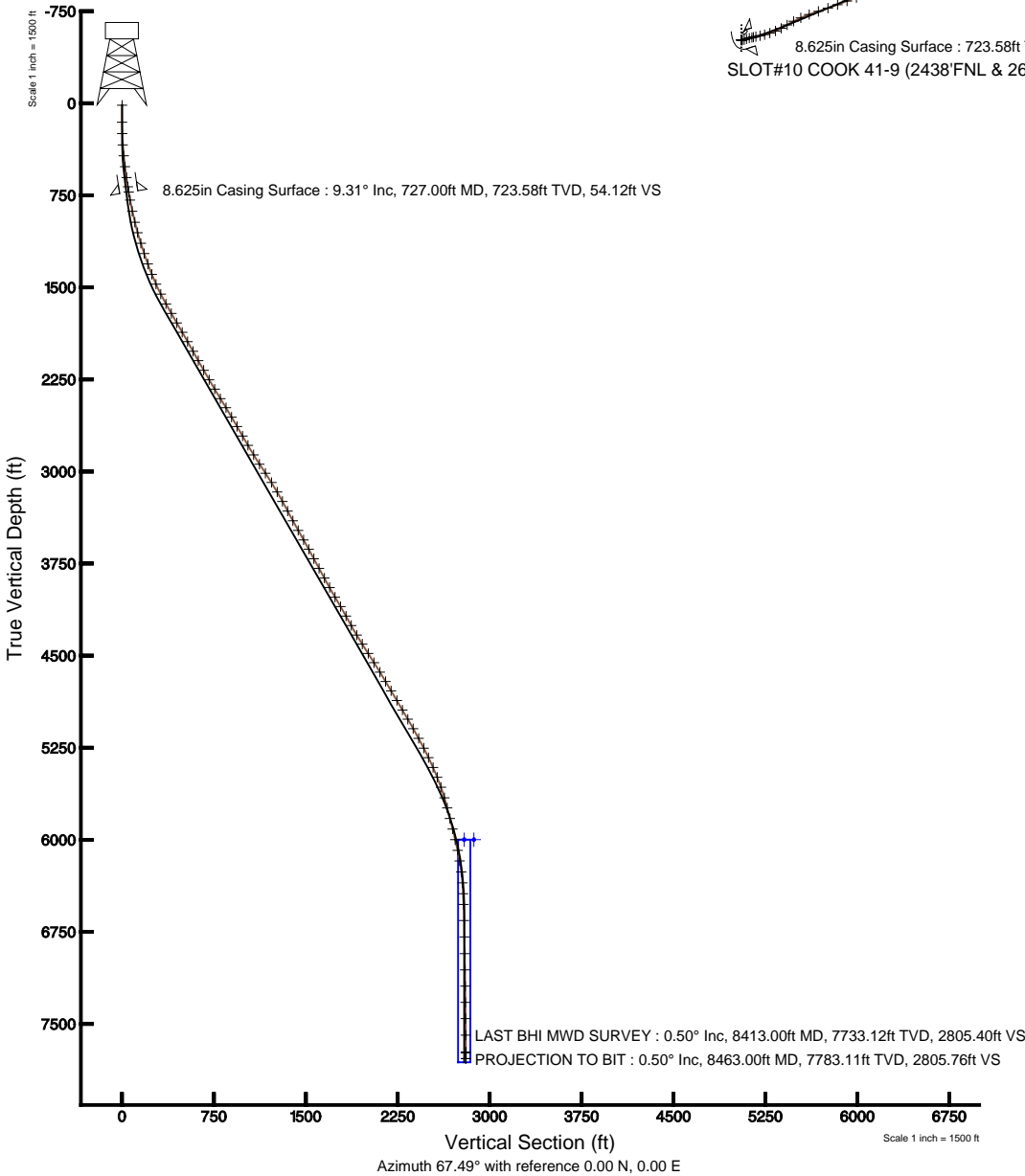
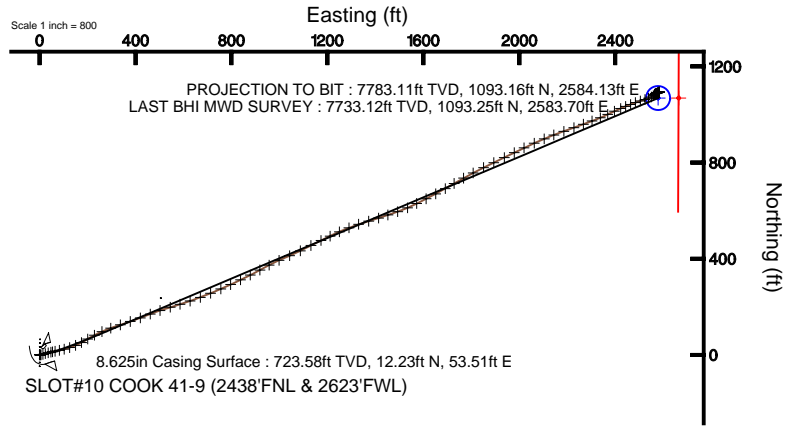


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#10 COOK 41-9 (2438'FNL & 2623'FWL)
 Field: WELD COUNTY (KERR MCGEE) Well: COOK 41-9
 Facility: SEC.09-T2N-R65W Wellbore: COOK 41-9 PWB



Plot reference wellpath is COOK 41-9 (REV-B.G) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (SD1), US feet
True vertical depths are referenced to XTREME 15 (RKB)	North Reference: True north
Measured depths are referenced to XTREME 15 (RKB)	Scale: True distance
XTREME 15 (RKB) to Mean Sea Level: 4888 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#10 COOK 41-9 (2438'FNL & 2623'FWL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdam on 7/25/2011





Actual Wellpath Report

COOK 41-9 AWP

Page 1 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 COOK 41-9 (2438'FNL & 2623'FWL)
Area	COLORADO	Well	COOK 41-9
Field	WELD COUNTY (KERR MCGEE)	Wellbore	COOK 41-9 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 5:28:14 PM
Convergence at slot	0.54° East	Database/Source file	WA_DENVER/COOK_41-9_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	2573.48	2177.29	3232300.09	1299969.24	40°09'13.759"N	104°40'08.130"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#10 COOK 41-9 (2438'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	67.49°



Actual Wellpath Report

COOK 41-9 AWP

Page 2 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 COOK 41-9 (2438'FNL & 2623'FWL)
Area	COLORADO	Well	COOK 41-9
Field	WELD COUNTY (KERR MCGEE)	Wellbore	COOK 41-9 AWB
Facility	SEC.09-T2N-R65W		

WELLPATH DATA (92 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	200.800	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	200.800	15.00	0.00	0.00	0.00	0.00	
153.00	0.500	200.800	153.00	-0.41	-0.56	-0.21	0.36	
246.00	1.800	85.100	245.98	0.70	-0.82	1.10	2.22	
338.00	4.000	80.200	337.86	5.21	-0.15	5.70	2.40	
428.00	6.000	73.500	427.51	12.95	1.72	13.30	2.31	
517.00	7.900	72.500	515.86	23.67	4.88	23.60	2.14	
606.00	8.300	76.700	603.97	36.10	8.20	35.68	0.80	
682.00	8.700	77.400	679.13	47.18	10.72	46.63	0.54	
792.00	10.200	78.100	787.64	64.95	14.54	64.28	1.37	
885.00	12.000	77.700	878.89	82.56	18.30	81.79	1.94	
977.00	14.600	75.600	968.42	103.45	23.22	102.36	2.87	
1065.00	15.900	71.700	1053.32	126.46	29.76	124.55	1.88	
1156.00	18.200	67.900	1140.32	153.10	39.02	149.56	2.81	
1244.00	18.300	61.200	1223.90	180.58	50.85	174.40	2.39	
1334.00	20.000	59.100	1308.92	209.86	65.56	199.99	2.04	
1424.00	22.400	62.300	1392.83	242.17	81.44	228.39	2.96	
1512.00	24.200	66.900	1473.65	276.91	96.32	259.83	2.91	
1602.00	27.100	69.600	1554.78	315.85	110.70	296.02	3.47	
1692.00	29.200	72.500	1634.13	358.21	124.45	336.18	2.78	
1781.00	29.800	70.300	1711.59	401.93	138.43	377.70	1.39	
1870.00	30.200	70.000	1788.67	446.38	153.55	419.56	0.48	
1959.00	29.900	68.200	1865.71	490.92	169.44	461.19	1.07	
2046.00	29.400	71.400	1941.32	533.91	184.31	501.57	1.91	
2137.00	29.700	73.200	2020.49	578.63	197.95	544.32	1.03	
2224.00	29.400	73.500	2096.17	621.31	210.24	585.43	0.38	
2314.00	29.200	71.000	2174.66	665.19	223.66	627.37	1.38	
2404.00	31.400	70.000	2252.36	710.54	238.83	670.16	2.51	
2493.00	30.300	66.100	2328.78	756.15	255.86	712.48	2.56	
2583.00	31.600	67.900	2405.96	802.43	273.93	755.09	1.77	
2670.00	31.000	64.000	2480.31	847.59	292.33	796.35	2.43	
2759.00	30.700	65.100	2556.71	893.17	311.94	837.55	0.72	
2848.00	30.500	63.000	2633.32	938.38	331.76	878.29	1.22	
2938.00	30.100	61.600	2711.03	983.60	352.86	918.49	0.90	
3025.00	30.100	62.300	2786.30	1027.03	373.38	956.99	0.40	
3115.00	31.200	66.100	2863.73	1072.81	393.32	998.29	2.47	
3205.00	32.900	66.800	2940.01	1120.56	412.39	1042.08	1.93	
3294.00	34.400	64.400	3014.10	1169.84	432.78	1086.97	2.25	
3384.00	32.600	62.600	3089.15	1219.39	454.92	1131.43	2.28	
3474.00	29.900	64.000	3166.08	1265.95	475.92	1173.12	3.11	
3562.00	27.500	65.400	3243.27	1308.15	493.99	1211.31	2.83	
3652.00	28.800	65.400	3322.62	1350.58	511.67	1249.92	1.44	
3742.00	28.500	68.500	3401.61	1393.72	528.57	1289.61	1.68	
3831.00	29.500	71.400	3479.45	1436.81	543.34	1330.14	1.94	
3920.00	29.800	74.600	3556.80	1480.62	556.20	1372.23	1.81	
4008.00	28.900	70.700	3633.51	1523.56	569.04	1413.39	2.40	
4095.00	27.400	72.100	3710.22	1564.50	582.14	1452.28	1.88	
4185.00	29.600	71.400	3789.31	1607.33	595.60	1493.06	2.47	
4275.00	29.000	65.100	3867.81	1651.31	611.87	1533.92	3.49	
4363.00	28.200	64.000	3945.08	1693.38	629.97	1571.96	1.09	
4453.00	30.200	63.300	4023.63	1737.18	649.47	1611.30	2.25	
4542.00	31.000	63.000	4100.24	1782.36	669.93	1651.72	0.92	
4632.00	29.800	59.800	4177.87	1827.63	691.70	1691.70	2.24	
4720.00	28.400	59.400	4254.76	1870.02	713.36	1728.62	1.61	
4810.00	31.600	61.900	4332.70	1914.69	735.36	1767.85	3.82	

4896.00	32.100	61.600	4405.75	1959.85	756.84	1807.83	0.61
4987.00	32.800	63.700	4482.54	2008.50	779.27	1851.19	1.46
5076.00	31.800	64.700	4557.77	2055.97	799.97	1894.01	1.27
5167.00	32.400	64.000	4634.86	2104.26	820.90	1937.60	0.78
5256.00	30.500	63.000	4710.78	2150.58	841.61	1979.16	2.21



Actual Wellpath Report

COOK 41-9 AWP

Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 COOK 41-9 (2438'FNL & 2623'FWL)
Area	COLORADO	Well	COOK 41-9
Field	WELD COUNTY (KERR MCGEE)	Wellbore	COOK 41-9 AWB
Facility	SEC.09-T2N-R65W		

WELLPATH DATA (92 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5345.00	30.800	64.700	4787.35	2195.85	861.60	2019.88	1.03	
5436.00	30.900	66.500	4865.47	2242.49	880.88	2062.37	1.02	
5526.00	30.100	66.500	4943.02	2288.16	899.09	2104.26	0.89	
5613.00	29.400	69.600	5018.56	2331.31	915.24	2144.29	1.94	
5702.00	30.200	70.300	5095.79	2375.50	930.40	2185.84	0.98	
5792.00	29.400	70.000	5173.88	2420.18	945.58	2227.91	0.90	
5882.00	26.000	70.000	5253.56	2461.97	959.89	2267.21	3.78	
5969.00	26.600	69.300	5331.55	2500.49	973.30	2303.35	0.78	
6057.00	23.700	68.200	5411.20	2537.87	986.83	2338.21	3.34	
6144.00	21.900	63.300	5491.41	2571.54	1000.62	2368.95	3.01	
6231.00	20.100	65.400	5572.63	2602.67	1014.13	2397.04	2.24	
6321.00	16.300	66.500	5658.11	2630.76	1025.61	2422.69	4.24	
6407.00	14.200	68.200	5741.08	2653.38	1034.34	2443.55	2.50	
6496.00	14.600	69.300	5827.28	2675.51	1042.36	2464.18	0.54	
6585.00	13.800	70.000	5913.56	2697.32	1049.95	2484.65	0.92	
6674.00	14.400	73.500	5999.88	2718.93	1056.73	2505.24	1.17	
6763.00	11.600	70.700	6086.59	2738.88	1062.83	2524.30	3.22	
6851.00	9.400	70.000	6173.11	2754.89	1068.21	2539.40	2.50	
6942.00	7.200	59.800	6263.16	2767.97	1073.62	2551.32	2.90	
7031.00	5.200	50.300	6351.64	2777.35	1079.01	2559.24	2.52	
7120.00	3.300	38.700	6440.39	2783.45	1083.58	2563.94	2.33	
7207.00	1.800	41.500	6527.30	2786.87	1086.56	2566.42	1.73	
7339.00	1.500	80.900	6659.25	2790.42	1088.39	2569.50	0.87	
7472.00	1.400	80.500	6792.21	2793.69	1088.93	2572.82	0.08	
7608.00	1.100	68.600	6928.18	2796.62	1089.68	2575.67	0.29	
7741.00	1.000	58.700	7061.15	2799.04	1090.75	2577.85	0.16	
7873.00	0.700	39.100	7193.14	2800.89	1091.97	2579.34	0.31	
8005.00	0.700	70.300	7325.13	2802.40	1092.87	2580.61	0.29	
8137.00	0.400	59.100	7457.12	2803.66	1093.38	2581.77	0.24	
8272.00	0.400	105.100	7592.12	2804.50	1093.50	2582.63	0.23	
8413.00	0.500	101.600	7733.12	2805.40	1093.25	2583.70	0.07	LAST BHI MWD SURVEY
8463.00	0.500	101.600	7783.11	2805.76	1093.16	2584.13	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: COOK 41-9 AWB Ref Wellpath: COOK 41-9 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	737.00	722.00	15.00	733.44	0.00	0.00	12.58	55.10
8.625in Casing Surface	15.00	727.00	712.00	15.00	723.58	0.00	0.00	12.23	53.51
7.875in Open Hole	737.00	8463.00	7726.00	733.44	7783.11	12.58	55.10	1093.16	2584.13



Actual Wellpath Report

COOK 41-9 AWP

Page 4 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 COOK 41-9 (2438'FNL & 2623'FWL)
Area	COLORADO	Well	COOK 41-9
Field	WELD COUNTY (KERR MCGEE)	Wellbore	COOK 41-9 AWB
Facility	SEC.09-T2N-R65W		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
COOK 41-9 HARDLINE 85'E OF GEO TARGET		6000.00	1068.98	2664.90	3234954.74	1301063.10	40°09'24.322"N	104°39'33.808"W	point
COOK 41-9 GEO TARGET 50' RADIUS (1360'FNL & 85'FEL, REV-1)		6000.00	1069.02	2579.13	3234868.97	1301062.33	40°09'24.322"N	104°39'34.913"W	circle

WELLPATH COMPOSITION - Ref Wellbore: COOK 41-9 AWB Ref Wellpath: COOK 41-9 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8413.00	NaviTrak (Standard)	BHI MWD SURVEYS <153-8413>	COOK 41-9 AWB
8413.00	8463.00	Blind Drilling (std)	Projection to bit	COOK 41-9 AWB



Actual Wellpath Report

COOK 41-9 AWP

Page 5 of 5



REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	COOK 41-9
Field	WELD COUNTY (KERR MCGEE)	Wellbore	COOK 41-9 AWB
Facility	SEC.09-T2N-R65W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8413.00	0.500	101.600	7733.12	LAST BHI MWD SURVEY
8463.00	0.500	101.600	7783.11	PROJECTION TO BIT