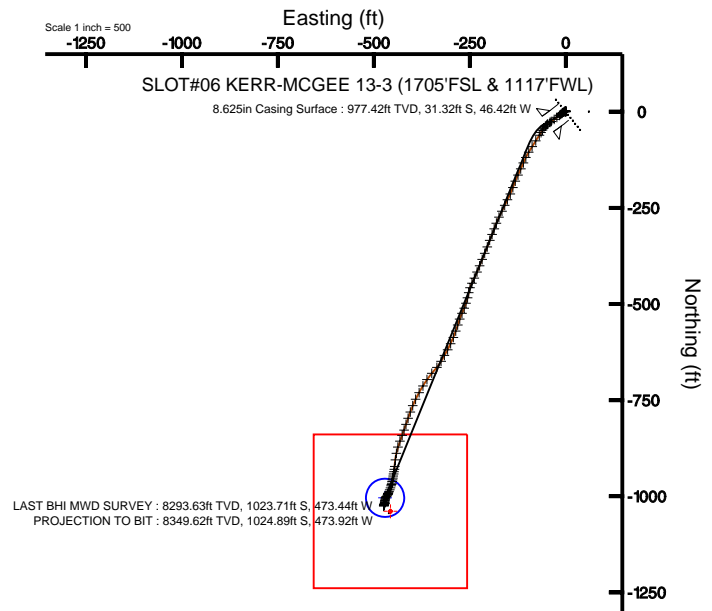
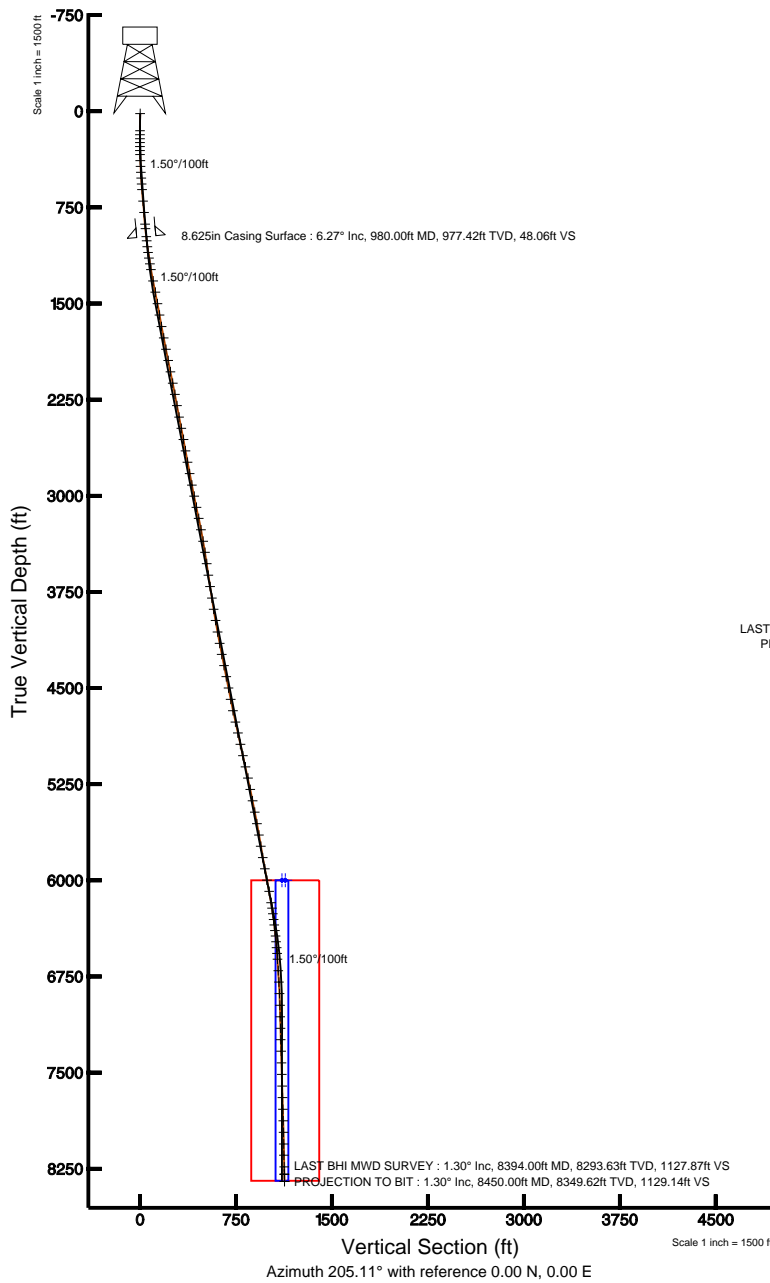


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#06 KERR-MCGEE 13-3 (1705'FSL & 1117'FWL)
 Field: WELD COUNTY (KERR MCGEE) Well: KERR-MCGEE 13-3
 Facility: SEC.03-T1N-R68W Wellbore: KERR-MCGEE 13-3 PWB



Plot reference wellpath is KERR-MCGEE 13-3 (REV-9.0) PWP	
True vertical depths are referenced to XTREME 8 (RT)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 8 (RT)	North Reference: True north
XTREME 8 (RT) to Mean Sea Level: 5059 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.03-T1N-R68W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdarn on 7/27/2010



BGGM (1945.0 to 2012.0) Dip: 66.80° Field: 53064.1 nT
 Magnetic North is 9.06 degrees East of True North (at 6/25/2010)

To correct azimuth from Magnetic to True add 9.06 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 9.06 = 99.06



Actual Wellpath Report

KERR-MCGEE 13-3 AWP

Page 1 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 KERR-MCGEE 13-3 (1705'FSL & 1117'FWL)
Area	COLORADO	Well	KERR-MCGEE 13-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 13-3 AWB
Facility	SEC.03-T1N-R68W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect@ 2.0
North Reference	True	User	Cookdanm
Scale	0.999961	Report Generated	7/27/2010 at 4:37:41 PM
Convergence at slot	0.33° East	Database/Source file	Denver Server/KERR-MCGEE_13-3_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-0.73	-60.45	3141330.70	1271556.42	40°04'39.749"N	104°59'41.806"W
Facility Reference Pt			3141391.14	1271557.49	40°04'39.756"N	104°59'41.028"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 8 (RT) to Facility Vertical Datum	5059.00ft
Horizontal Reference Pt	Slot	XTREME 8 (RT) to Mean Sea Level	5059.00ft
Vertical Reference Pt	XTREME 8 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 8 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	205.11°



Actual Wellpath Report

KERR-MCGEE 13-3 AWP

Page 2 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 KERR-MCGEE 13-3 (1705'FSL & 1117'FWL)
Area	COLORADO	Well	KERR-MCGEE 13-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 13-3 AWB
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (111 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	23.100	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	23.100	17.00	0.00	0.00	0.00	0.00	
151.00	0.800	23.100	151.00	-0.93	0.86	0.37	0.60	
182.00	0.600	23.500	181.99	-1.31	1.21	0.52	0.65	
213.00	0.400	344.500	212.99	-1.56	1.46	0.55	1.24	
244.00	0.500	300.000	243.99	-1.65	1.63	0.41	1.14	
275.00	0.900	274.000	274.99	-1.58	1.72	0.05	1.62	
306.00	1.300	263.300	305.98	-1.30	1.69	-0.55	1.45	
337.00	2.200	253.100	336.97	-0.72	1.48	-1.46	3.06	
385.00	3.000	237.000	384.92	0.96	0.53	-3.40	2.24	
430.00	3.700	240.000	429.84	3.16	-0.84	-5.64	1.60	
476.00	3.700	233.000	475.75	5.68	-2.47	-8.12	0.98	
521.00	4.100	230.000	520.64	8.43	-4.38	-10.51	1.00	
567.00	4.600	230.000	566.51	11.59	-6.63	-13.18	1.09	
611.00	5.300	230.900	610.35	15.02	-9.04	-16.11	1.60	
701.00	5.800	233.400	699.92	22.77	-14.37	-22.99	0.62	
791.00	5.500	232.300	789.49	30.61	-19.72	-30.05	0.35	
882.00	6.200	236.200	880.01	38.70	-25.12	-37.58	0.88	
917.00	6.400	235.500	914.80	42.00	-27.28	-40.76	0.61	
1013.00	6.200	232.300	1010.22	51.23	-33.48	-49.27	0.42	
1059.00	7.000	220.000	1055.92	56.14	-37.15	-53.04	3.52	
1104.00	8.000	215.100	1100.53	61.88	-41.81	-56.60	2.64	
1149.00	9.000	212.000	1145.04	68.46	-47.36	-60.27	2.44	
1195.00	10.300	210.700	1190.39	76.12	-53.94	-64.28	2.87	
1240.00	10.600	212.000	1234.64	84.24	-60.91	-68.52	0.85	
1330.00	11.500	213.300	1322.97	101.33	-75.43	-77.83	1.04	
1420.00	11.000	211.600	1411.24	118.75	-90.24	-87.26	0.67	
1511.00	10.600	211.600	1500.63	135.69	-104.77	-96.19	0.44	
1601.00	9.500	205.200	1589.25	151.34	-118.54	-103.69	1.74	
1692.00	10.500	202.800	1678.87	167.14	-132.98	-110.11	1.19	
1783.00	10.900	204.900	1768.28	184.03	-148.43	-116.94	0.61	
1873.00	11.500	204.200	1856.57	201.51	-164.33	-124.20	0.68	
1962.00	11.200	203.500	1943.83	219.02	-180.35	-131.28	0.37	
2052.00	11.800	198.000	2032.03	236.89	-197.12	-137.61	1.39	
2143.00	11.000	205.200	2121.23	254.80	-213.82	-144.19	1.79	
2232.00	10.400	209.100	2208.69	271.31	-228.52	-151.71	1.06	
2321.00	10.700	202.100	2296.19	287.57	-243.20	-158.72	1.48	
2412.00	11.000	208.400	2385.56	304.68	-258.66	-166.03	1.34	
2502.00	11.300	205.200	2473.86	322.07	-274.19	-173.87	0.76	
2590.00	10.800	202.100	2560.23	338.92	-289.63	-180.64	0.88	
2680.00	9.500	198.000	2648.82	354.71	-304.51	-186.11	1.65	
2771.00	10.100	203.500	2738.50	370.14	-318.97	-191.61	1.22	
2861.00	11.100	200.700	2826.96	386.67	-334.31	-197.82	1.25	
2952.00	12.000	200.400	2916.12	404.83	-351.37	-204.22	0.99	
3041.00	11.400	203.500	3003.27	422.84	-368.11	-210.95	0.98	



Actual Wellpath Report

KERR-MCGEE 13-3 AWP

Page 3 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 KERR-MCGEE 13-3 (1705'FSL & 1117'FWL)
Area	COLORADO	Well	KERR-MCGEE 13-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 13-3 AWB
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (111 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3129.00	11.300	202.400	3089.55	440.15	-384.06	-217.70	0.27	
3218.00	11.600	201.400	3176.78	457.79	-400.45	-224.29	0.40	
3308.00	11.000	202.800	3265.03	475.40	-416.79	-230.92	0.73	
3399.00	10.900	205.200	3354.38	492.68	-432.58	-237.95	0.51	
3487.00	8.300	207.000	3441.14	507.35	-445.77	-244.37	2.97	
3576.00	8.400	198.000	3529.20	520.22	-457.68	-249.30	1.47	
3667.00	8.400	191.500	3619.22	533.27	-470.51	-252.68	1.04	
3757.00	9.100	193.600	3708.17	546.64	-483.87	-255.66	0.85	
3848.00	9.200	197.900	3798.02	560.91	-497.79	-259.59	0.76	
3936.00	9.100	202.100	3884.90	574.83	-510.93	-264.37	0.77	
4025.00	9.800	205.200	3972.69	589.44	-524.31	-270.24	0.97	
4116.00	10.400	198.200	4062.28	605.34	-539.12	-276.11	1.50	
4206.00	10.600	198.200	4150.78	621.62	-554.70	-281.23	0.22	
4294.00	11.000	198.600	4237.22	638.00	-570.34	-286.44	0.46	
4383.00	12.000	202.400	4324.43	655.67	-586.95	-292.67	1.41	
4472.00	11.200	203.800	4411.61	673.56	-603.41	-299.68	0.95	
4562.00	11.200	209.200	4499.90	691.01	-619.04	-307.48	1.16	
4652.00	10.600	210.900	4588.28	707.97	-633.77	-315.99	0.76	
4742.00	12.000	208.100	4676.53	725.55	-649.13	-324.65	1.67	
4833.00	12.500	221.100	4765.48	744.47	-664.90	-335.58	3.07	
4921.00	14.100	220.400	4851.11	763.96	-680.24	-348.79	1.83	
5012.00	12.000	214.400	4939.76	783.99	-696.49	-361.32	2.74	
5102.00	13.300	210.200	5027.58	803.54	-713.15	-371.81	1.77	
5192.00	12.700	209.500	5115.27	823.72	-730.71	-381.89	0.69	
5282.00	12.300	206.700	5203.14	843.16	-747.89	-391.07	0.81	
5372.00	11.200	201.400	5291.25	861.47	-764.59	-398.57	1.71	
5463.00	11.300	200.700	5380.50	879.18	-781.16	-404.95	0.19	
5553.00	10.600	198.100	5468.87	896.18	-797.27	-410.63	0.95	
5644.00	10.600	199.600	5558.31	912.82	-813.11	-416.04	0.30	
5734.00	9.600	197.200	5646.92	928.50	-828.08	-421.04	1.21	
5823.00	9.500	204.200	5734.69	943.19	-841.87	-426.24	1.31	
5913.00	10.800	198.900	5823.28	959.00	-856.62	-432.02	1.78	
6002.00	10.400	198.200	5910.76	975.26	-872.14	-437.23	0.47	
6092.00	11.200	189.800	5999.17	991.76	-888.48	-441.25	1.96	
6181.00	11.400	186.000	6086.45	1008.41	-905.74	-443.65	0.87	
6271.00	10.300	186.000	6174.84	1024.42	-922.59	-445.42	1.22	
6315.00	9.100	188.000	6218.21	1031.46	-929.95	-446.31	2.83	
6359.00	8.000	190.000	6261.72	1037.74	-936.41	-447.33	2.59	
6404.00	7.300	191.000	6306.32	1043.54	-942.30	-448.42	1.58	
6447.00	7.200	189.800	6348.97	1048.78	-947.64	-449.40	0.42	
6491.00	6.600	191.900	6392.65	1053.91	-952.83	-450.39	1.48	
6534.00	5.900	191.200	6435.40	1058.46	-957.41	-451.33	1.64	
6579.00	5.800	189.100	6480.16	1062.89	-961.93	-452.14	0.52	
6625.00	5.100	193.300	6525.96	1067.12	-966.21	-452.97	1.75	
6670.00	4.300	194.000	6570.80	1070.74	-969.80	-453.84	1.78	



Actual Wellpath Report

KERR-MCGEE 13-3 AWP

Page 4 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 KERR-MCGEE 13-3 (1705'FSL & 1117'FWL)
Area	COLORADO	Well	KERR-MCGEE 13-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 13-3 AWB
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (111 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
6715.00	4.000	200.000	6615.69	1073.95	-972.91	-454.79	1.17	
6805.00	3.600	195.800	6705.49	1079.87	-978.58	-456.63	0.54	
6894.00	3.200	206.300	6794.33	1085.11	-983.49	-458.49	0.83	
6984.00	2.400	202.000	6884.22	1089.50	-987.49	-460.31	0.92	
7075.00	2.000	204.000	6975.16	1092.99	-990.71	-461.67	0.45	
7165.00	1.100	204.000	7065.12	1095.43	-992.93	-462.66	1.00	
7255.00	1.000	194.000	7155.11	1097.06	-994.48	-463.20	0.23	
7344.00	1.700	205.000	7244.08	1099.14	-996.43	-463.95	0.84	
7434.00	2.100	213.000	7334.03	1102.11	-999.03	-465.41	0.53	
7525.00	1.800	243.000	7424.98	1104.89	-1001.07	-467.59	1.15	
7615.00	2.100	192.600	7514.94	1107.62	-1003.32	-469.21	1.87	
7706.00	1.800	187.700	7605.88	1110.61	-1006.37	-469.77	0.38	
7796.00	1.700	198.600	7695.84	1113.28	-1009.03	-470.38	0.39	
7887.00	1.800	194.300	7786.80	1116.03	-1011.70	-471.16	0.18	
7977.00	2.000	183.100	7876.75	1118.87	-1014.64	-471.60	0.47	
8067.00	1.400	180.000	7966.71	1121.33	-1017.30	-471.68	0.67	
8158.00	0.500	194.300	8057.70	1122.72	-1018.80	-471.78	1.02	
8246.00	1.100	204.500	8145.69	1123.94	-1019.94	-472.23	0.70	
8337.00	1.900	194.300	8236.66	1126.30	-1022.20	-472.96	0.92	
8394.00	1.300	202.100	8293.63	1127.87	-1023.71	-473.44	1.12	LAST BHI MWD SURVEY
8450.00	1.300	202.100	8349.62	1129.14	-1024.89	-473.92	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: KERR-MCGEE 13-3 AWB Ref Wellpath: KERR-MCGEE 13-3 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	17.00	980.00	963.00	17.00	977.42	0.00	0.00	-31.32	-46.42
8.625in Casing Surface	17.00	980.00	963.00	17.00	977.42	0.00	0.00	-31.32	-46.42
7.875in Open Hole	980.00	8450.00	7470.00	977.42	8349.62	-31.32	-46.42	-1024.89	-473.92



Actual Wellpath Report

KERR-MCGEE 13-3 AWP

Page 5 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 KERR-MCGEE 13-3 (1705'FSL & 1117'FWL)
Area	COLORADO	Well	KERR-MCGEE 13-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 13-3 AWB
Facility	SEC.03-T1N-R68W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
KERR-MCGEE 13-3 GEO TARGET 50' RADIUS (700'FSL & 650'FWL, REV-1)		6000.00	-1004.35	-470.72	3140865.73	1270549.45	40°04'29.824"N	104°59'47.861"W	circle
KERR-MCGEE 13-3 LEGAL BOX (165'N,235'S,186'W,214'E OF GEO TARGET)		6000.00	-1039.35	-456.72	3140879.93	1270514.53	40°04'29.478"N	104°59'47.681"W	square

WELLPATH COMPOSITION					Ref Wellbore: KERR-MCGEE 13-3 AWB	Ref Wellpath: KERR-MCGEE 13-3 AWP
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore	
17.00	917.00	NaviTrak (Standard)	SURFACE BHI MWD 12.25 HOLE <151-917>		KERR-MCGEE 13-3 AWB	
917.00	8394.00	NaviTrak (Standard)	PRODUCTION BHI MWD 7.875 HOLE <1013-8394>		KERR-MCGEE 13-3 AWB	
8394.00	8450.00	Blind Drilling (std)	Projection to bit		KERR-MCGEE 13-3 AWB	



Actual Wellpath Report

KERR-MCGEE 13-3 AWP

Page 6 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 KERR-MCGEE 13-3 (1705'FSL & 1117'FWL)
Area	COLORADO	Well	KERR-MCGEE 13-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 13-3 AWB
Facility	SEC.03-T1N-R68W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8394.00	1.300	202.100	8293.63	LAST BHI MWD SURVEY
8450.00	1.300	202.100	8349.62	PROJECTION TO BIT