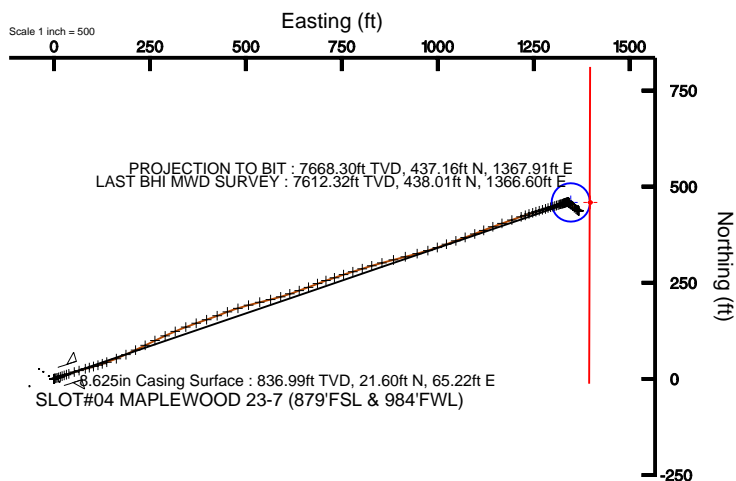
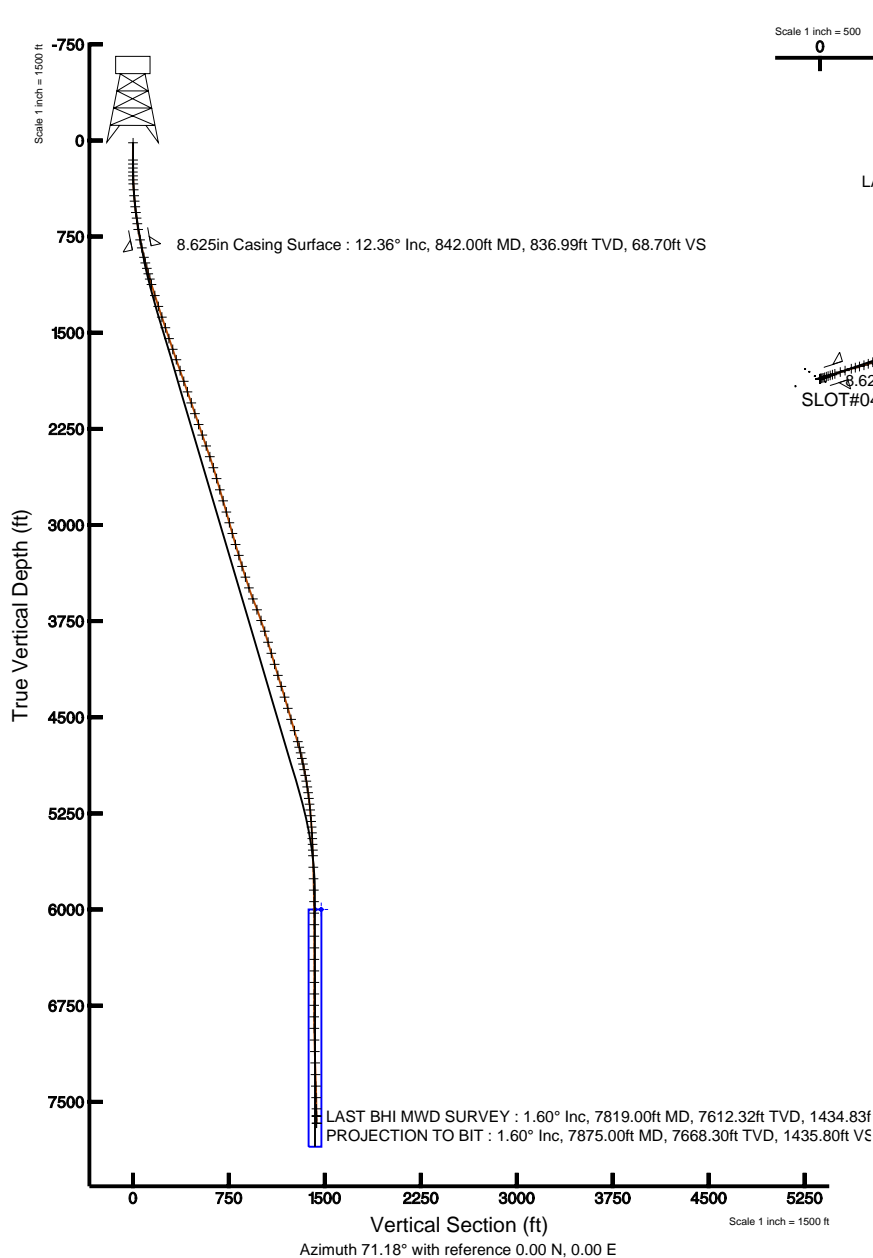


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#04 MAPLEWOOD 23-7 (879'FSL & 984'FWL)
 Field: WELD COUNTY (KERR MCGEE) Well: MAPLEWOOD 23-7
 Facility: SEC.07-T4N-R67W Wellbore: MAPLEWOOD 23-7 PWB



Plot reference wellpath is MAPLEWOOD 23-7 (REV-A-6) PWB	
True vertical depths are referenced to XTREME 8 (RKB)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 8 (RKB)	North Reference: True north
XTREME 8 (RKB) to Mean Sea Level: 4865 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.07-T4N-R67W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdarn on 1/13/2011



BGGM (1945.0 to 2012.0) Dip: 66.89° Field: 53164 nT
 Magnetic North is 9.00 degrees East of True North (at 10/25/2010)

To correct azimuth from Magnetic to True add 9.00 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 9.00 = 99.00



Actual Wellpath Report

MAPLEWOOD 23-7 AWP

Page 1 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MAPLEWOOD 23-7 (879'FSL & 984'FWL)
Area	COLORADO	Well	MAPLEWOOD 23-7
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MAPLEWOOD 23-7 AWB
Facility	SEC.07-T4N-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	Cookdanm
Scale	0.999958	Report Generated	1/13/2011 at 4:18:59 PM
Convergence at slot	0.36° East	Database/Source file	Denver Server/MAPLEWOOD_23-7_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-25.50	39.04	3156634.54	1361144.34	40°19'24.168"N	104°56'17.628"W
Facility Reference Pt			3156595.35	1361169.60	40°19'24.420"N	104°56'18.132"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 (RKB) to Facility Vertical Datum	4865.00ft
Horizontal Reference Pt	Slot	XTREME 8 (RKB) to Mean Sea Level	4865.00ft
Vertical Reference Pt	XTREME 8 (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 8 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	71.18°



Actual Wellpath Report

MAPLEWOOD 23-7 AWP

Page 2 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MAPLEWOOD 23-7 (879'FSL & 984'FWL)
Area	COLORADO	Well	MAPLEWOOD 23-7
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MAPLEWOOD 23-7 AWP
Facility	SEC.07-T4N-R67W		

WELLPATH DATA (110 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	240.300	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	240.300	17.00	0.00	0.00	0.00	0.00	
152.00	0.200	240.300	152.00	-0.23	-0.12	-0.20	0.15	
183.00	0.400	269.500	183.00	-0.39	-0.14	-0.36	0.79	
214.00	0.300	301.500	214.00	-0.54	-0.10	-0.54	0.70	
245.00	0.400	49.100	245.00	-0.49	0.01	-0.52	1.83	
276.00	1.100	64.600	276.00	-0.10	0.21	-0.17	2.33	
307.00	2.100	70.900	306.98	0.77	0.52	0.63	3.27	
338.00	2.900	74.700	337.95	2.12	0.91	1.92	2.63	
384.00	4.200	75.100	383.86	4.96	1.66	4.67	2.83	
430.00	4.900	71.900	429.72	8.60	2.70	8.17	1.62	
473.00	5.600	69.500	472.54	12.54	4.00	11.88	1.71	
517.00	6.300	70.900	516.30	17.10	5.55	16.17	1.62	
562.00	6.900	71.900	561.00	22.27	7.19	21.08	1.36	
606.00	7.400	71.200	604.66	27.75	8.93	26.27	1.15	
651.00	8.200	71.900	649.24	33.85	10.86	32.06	1.79	
696.00	9.300	71.600	693.72	40.70	13.00	38.56	2.45	
779.00	11.500	71.900	775.35	55.68	17.69	52.79	2.65	
918.00	13.400	74.400	911.08	85.62	26.33	81.48	1.42	
963.00	14.400	75.100	954.76	96.41	29.17	91.91	2.25	
1007.00	15.400	74.700	997.28	107.70	32.12	102.83	2.28	
1051.00	15.700	71.900	1039.67	119.48	35.51	114.13	1.84	
1094.00	16.400	71.900	1080.99	131.37	39.20	125.43	1.63	
1138.00	17.100	70.500	1123.13	144.05	43.29	137.43	1.84	
1228.00	17.200	69.100	1209.12	170.58	52.46	162.33	0.47	
1317.00	18.200	65.300	1293.91	197.55	62.96	187.26	1.72	
1405.00	18.500	63.800	1377.44	225.07	74.87	212.27	0.64	
1493.00	18.600	63.100	1460.87	252.81	87.38	237.31	0.28	
1582.00	18.800	64.900	1545.17	281.12	99.88	262.96	0.69	
1671.00	19.400	67.000	1629.27	310.12	111.74	289.55	1.02	
1757.00	19.500	65.300	1710.36	338.64	123.32	315.74	0.67	
1847.00	19.100	69.100	1795.31	368.30	134.85	343.14	1.46	
1935.00	19.400	71.600	1878.39	397.30	144.60	370.46	1.00	
2022.00	19.200	70.500	1960.50	426.06	153.94	397.66	0.48	
2113.00	18.500	68.100	2046.62	455.44	164.32	425.16	1.15	
2202.00	18.800	70.500	2130.95	483.88	174.37	451.78	0.93	
2291.00	19.000	72.300	2215.15	512.70	183.56	479.10	0.69	
2379.00	19.500	74.700	2298.23	541.68	191.80	506.91	1.06	
2469.00	19.400	75.800	2383.10	571.58	199.43	535.89	0.42	
2558.00	18.800	76.900	2467.20	600.58	206.30	564.19	0.79	
2648.00	16.700	73.000	2552.91	627.94	213.37	590.68	2.68	
2736.00	16.300	70.200	2637.29	652.92	221.25	614.39	1.01	
2827.00	16.800	72.300	2724.52	678.84	229.58	638.94	0.86	
2917.00	16.500	68.800	2810.75	704.61	238.15	663.25	1.16	
3008.00	15.900	66.300	2898.13	729.95	247.84	686.71	1.01	



Actual Wellpath Report

MAPLEWOOD 23-7 AWP

Page 3 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MAPLEWOOD 23-7 (879'FSL & 984'FWL)
Area	COLORADO	Well	MAPLEWOOD 23-7
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MAPLEWOOD 23-7 AWB
Facility	SEC.07-T4N-R67W		

WELLPATH DATA (110 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3095.00	15.200	73.300	2981.96	753.22	255.90	708.55	2.30	
3182.00	16.100	71.200	3065.73	776.68	263.07	730.89	1.22	
3272.00	16.200	71.200	3152.18	801.72	271.14	754.59	0.11	
3361.00	16.600	73.300	3237.56	826.83	278.79	778.52	0.80	
3450.00	17.100	71.900	3322.74	852.62	286.51	803.13	0.72	
3538.00	17.400	74.000	3406.78	878.70	294.16	828.08	0.79	
3626.00	18.800	74.700	3490.42	906.00	301.52	854.41	1.61	
3718.00	20.700	75.500	3577.01	937.01	309.51	884.45	2.09	
3808.00	21.300	75.100	3661.03	969.18	317.69	915.65	0.69	
3898.00	20.200	75.100	3745.19	1000.99	325.89	946.46	1.22	
3987.00	17.800	73.000	3829.34	1029.92	333.82	974.32	2.80	
4076.00	16.000	70.500	3914.49	1055.79	341.89	998.90	2.18	
4166.00	16.800	70.200	4000.83	1081.19	350.44	1022.83	0.89	
4256.00	16.500	69.800	4087.05	1106.98	359.26	1047.06	0.36	
4346.00	16.900	70.200	4173.26	1132.83	368.10	1071.36	0.46	
4436.00	17.500	69.800	4259.23	1159.44	377.21	1096.37	0.68	
4524.00	16.000	67.700	4343.50	1184.78	386.38	1120.01	1.84	
4615.00	16.200	68.400	4430.93	1209.97	395.81	1143.42	0.31	
4705.00	17.000	71.200	4517.18	1235.67	404.67	1167.54	1.26	
4796.00	17.600	71.600	4604.06	1262.73	413.30	1193.19	0.67	
4886.00	15.300	69.800	4690.37	1288.21	421.70	1217.25	2.62	
4931.00	14.300	71.200	4733.88	1299.70	425.54	1228.08	2.36	
4976.00	12.900	69.800	4777.62	1310.28	429.07	1238.06	3.20	
5021.00	12.000	73.000	4821.56	1319.98	432.17	1247.25	2.52	
5065.00	11.900	72.600	4864.60	1329.09	434.86	1255.95	0.30	
5110.00	11.000	73.000	4908.71	1338.02	437.51	1264.48	2.01	
5156.00	10.700	74.000	4953.89	1346.67	439.97	1272.79	0.77	
5202.00	9.800	73.000	4999.15	1354.85	442.29	1280.63	1.99	
5247.00	8.900	72.200	5043.55	1362.16	444.47	1287.61	2.02	
5293.00	7.800	71.200	5089.06	1368.84	446.56	1293.95	2.41	
5338.00	7.800	76.200	5133.65	1374.93	448.28	1299.81	1.51	
5383.00	6.300	74.000	5178.31	1380.44	449.69	1305.15	3.39	
5428.00	5.700	73.700	5223.06	1385.14	450.99	1309.67	1.34	
5473.00	4.800	68.400	5267.87	1389.25	452.31	1313.56	2.27	
5519.00	4.300	69.500	5313.73	1392.90	453.63	1316.97	1.10	
5562.00	4.000	79.000	5356.61	1395.99	454.48	1319.95	1.74	
5607.00	3.600	77.900	5401.52	1398.95	455.07	1322.87	0.90	
5652.00	3.100	70.500	5446.44	1401.57	455.78	1325.40	1.47	
5697.00	2.700	63.800	5491.38	1403.84	456.65	1327.50	1.16	
5743.00	2.200	87.100	5537.34	1405.76	457.17	1329.35	2.40	
5786.00	1.900	79.300	5580.31	1407.26	457.35	1330.88	0.95	
5876.00	1.300	55.800	5670.28	1409.72	458.20	1333.19	0.97	
5966.00	1.100	57.500	5760.26	1411.55	459.24	1334.76	0.23	
6055.00	1.300	78.300	5849.24	1413.38	459.90	1336.47	0.53	
6145.00	1.100	57.900	5939.22	1415.23	460.57	1338.20	0.52	



Actual Wellpath Report

MAPLEWOOD 23-7 AWP

Page 4 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MAPLEWOOD 23-7 (879'FSL & 984'FWL)
Area	COLORADO	Well	MAPLEWOOD 23-7
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MAPLEWOOD 23-7 AWB
Facility	SEC.07-T4N-R67W		

WELLPATH DATA (110 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
6234.00	1.100	131.300	6028.21	1416.49	460.46	1339.57	1.48	
6324.00	0.700	127.500	6118.20	1417.23	459.55	1340.65	0.45	
6415.00	0.300	113.800	6209.19	1417.71	459.12	1341.31	0.46	
6505.00	0.100	271.300	6299.19	1417.81	459.02	1341.45	0.44	
6596.00	0.400	147.500	6390.19	1417.81	458.76	1341.54	0.51	
6685.00	0.300	166.900	6479.19	1417.86	458.27	1341.76	0.17	
6775.00	0.200	211.900	6569.19	1417.72	457.90	1341.73	0.24	
6865.00	0.400	258.300	6659.19	1417.28	457.71	1341.34	0.33	
6954.00	0.400	259.300	6748.19	1416.67	457.59	1340.73	0.01	
7044.00	0.100	98.700	6838.18	1416.42	457.52	1340.50	0.55	
7134.00	1.100	102.900	6928.18	1417.23	457.31	1341.42	1.11	
7225.00	2.200	117.300	7019.14	1419.18	456.32	1343.82	1.28	
7315.00	3.100	131.000	7109.04	1421.60	453.93	1347.19	1.22	
7404.00	4.500	137.300	7197.85	1424.23	449.78	1351.38	1.64	
7495.00	3.800	133.800	7288.61	1427.06	445.07	1355.98	0.82	
7585.00	2.700	124.300	7378.46	1429.70	441.81	1359.88	1.36	
7675.00	2.200	124.300	7468.38	1432.01	439.64	1363.06	0.56	
7763.00	1.200	99.700	7556.34	1433.83	438.54	1365.36	1.38	
7819.00	1.600	122.900	7612.32	1434.83	438.01	1366.60	1.22	LAST BHI MWD SURVEY
7875.00	1.600	122.900	7668.30	1435.80	437.16	1367.91	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: MAPLEWOOD 23-7 AWB Ref Wellpath: MAPLEWOOD 23-7 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	842.00	825.00	17.00	836.99	0.00	0.00	21.60	65.22
8.625in Casing Surface	17.00	842.00	825.00	17.00	836.99	0.00	0.00	21.60	65.22
7.875in Open Hole	842.00	7875.00	7033.00	836.99	7668.30	21.60	65.22	437.16	1367.91



Actual Wellpath Report

MAPLEWOOD 23-7 AWP

Page 5 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MAPLEWOOD 23-7 (879'FSL & 984'FWL)
Area	COLORADO	Well	MAPLEWOOD 23-7
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MAPLEWOOD 23-7 AWB
Facility	SEC.07-T4N-R67W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
MAPLEWOOD 23-7 GEO TARGET 50' RADIUS (1400'FSL & 2330'FWL, REV-1)		6000.00	459.06	1346.76	3157978.31	1361611.91	40°19'28.704"N	104°56'00.240"W	circle
MAPLEWOOD 23-7 HARDLINE 51'E OF GEO TARGET		6000.00	459.06	1397.76	3158029.31	1361612.23	40°19'28.704"N	104°55'59.582"W	point

WELLPATH COMPOSITION					Ref Wellbore: MAPLEWOOD 23-7 AWB	Ref Wellpath: MAPLEWOOD 23-7 AWP
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore	
17.00	779.00	NaviTrak (Standard)	BHI MWD SURVEY 12.25 HOLE <152-779>		MAPLEWOOD 23-7 AWB	
779.00	7819.00	NaviTrak (Standard)	BHI MWD SURVEYS 7.875 HOLE <918-7819>		MAPLEWOOD 23-7 AWB	
7819.00	7875.00	Blind Drilling (std)	Projection to bit		MAPLEWOOD 23-7 AWB	



Actual Wellpath Report

MAPLEWOOD 23-7 AWP

Page 6 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MAPLEWOOD 23-7 (879'FSL & 984'FWL)
Area	COLORADO	Well	MAPLEWOOD 23-7
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MAPLEWOOD 23-7 AWB
Facility	SEC.07-T4N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7819.00	1.600	122.900	7612.32	LAST BHI MWD SURVEY
7875.00	1.600	122.900	7668.30	PROJECTION TO BIT