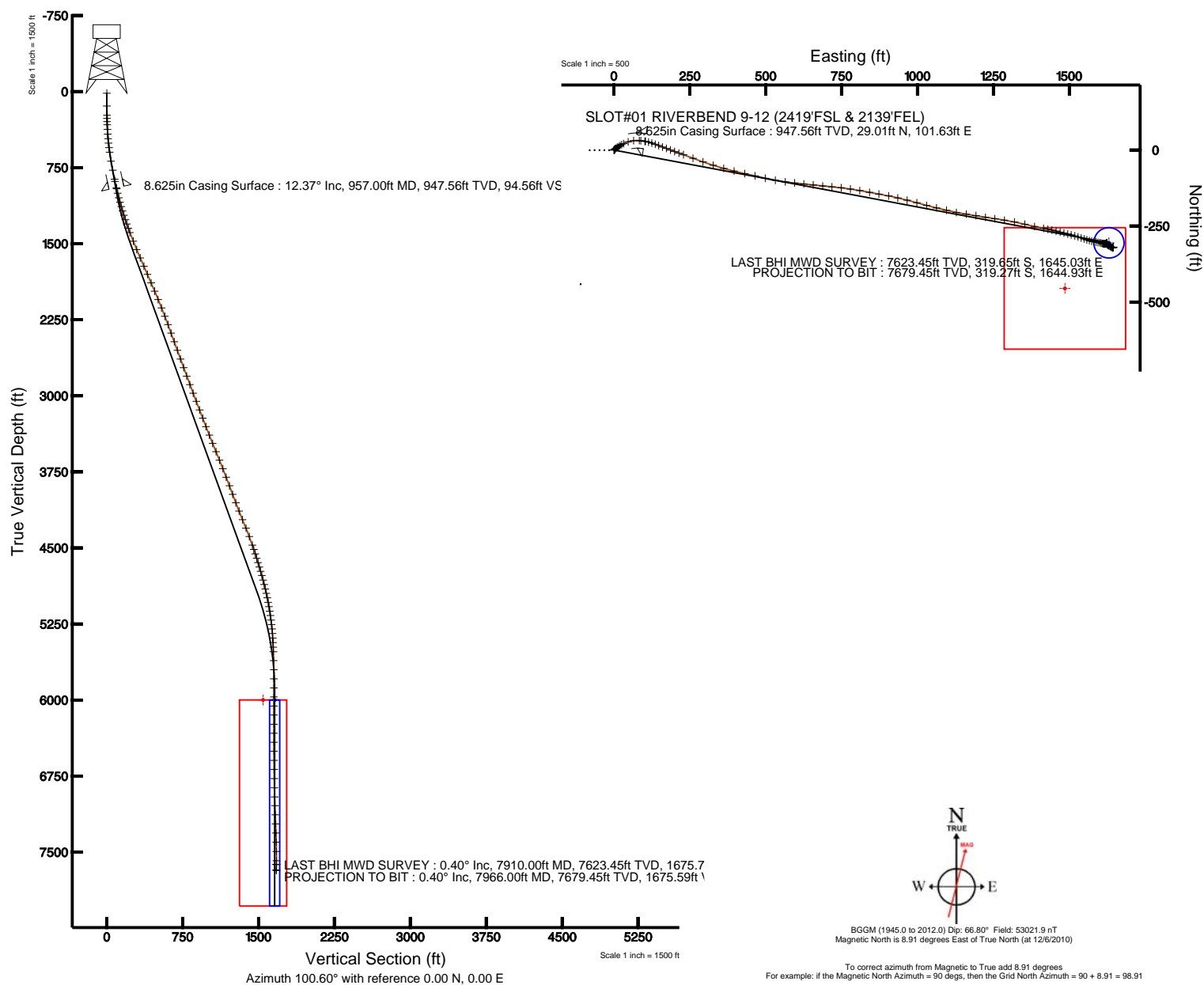


## KERR MCGEE OIL &amp; GAS ONSHORE LP

Location:	COLORADO	Slot:	SLOT#01 RIVERBEND 9-12 (2419'FSL & 2139'FEL)
Field:	WELD COUNTY (KERR MCGEE)	Well:	RIVERBEND 9-12
Facility:	SEC.12-T1N-R67W	Wellbore:	RIVERBEND 9-12 PWB



Plot reference wslipsh is RYVERBEND 9-12 (REV-B-0) PWP True vertical depths are referenced to XTREME 15 (RKB) Measured depths are referenced to XTREME 15 (RKB) XTREME 15 (RKB) to Mean Sea Level: 4928 feet Mean Sea Level to Mud line (Facility: SEC-12-TIN-R67W): 0 feet Coordinates are in feet referenced to S10t		Grid System: NAD83 / Lambert Colorado State Plane, Northern Zone (501), US feet North Reference: True north Scale: True distance Depths are in feet Created by: cooldann on 1/27/2011
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# Actual Wellpath Report

RIVERBEND 9-12 AWP

Page 1 of 6



INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 RIVERBEND 9-12 (2419'FSL & 2139'FEL)
Area	COLORADO	Well	RIVERBEND 9-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 9-12 AWP
Facility	SEC.12-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	Cookdanm
Scale	0.999962	Report Generated	1/27/2011 at 1:31:29 PM
Convergence at slot	0.43° East	Database/Source file	Denver Server/RIVERBEND_9-12_AWP.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	3185436.38	1267205.09	40°03'53.878"N	104°50'14.831"W
Facility Reference Pt			3185436.38	1267205.09	40°03'53.878"N	104°50'14.831"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	4928.00ft
Horizontal Reference Pt	Slot	XTREME 15 (RKB) to Mean Sea Level	4928.00ft
Vertical Reference Pt	XTREME 15 (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 15 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	100.60°



# Actual Wellpath Report

RIVERBEND 9-12 AWP

Page 2 of 6



## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 RIVERBEND 9-12 (2419'FSL & 2139'FEL)
Area	COLORADO	Well	RIVERBEND 9-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 9-12 AWB
Facility	SEC.12-T1N-R67W		

## WELLPATH DATA (114 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	103.100	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	103.100	15.00	0.00	0.00	0.00	0.00	
141.00	0.400	103.100	141.00	0.44	-0.10	0.43	0.32	
233.00	1.600	38.100	232.99	1.35	0.84	1.53	1.60	
264.00	2.200	36.000	263.97	1.81	1.66	2.15	1.95	
295.00	3.000	41.600	294.94	2.48	2.75	3.04	2.70	
326.00	3.900	47.600	325.88	3.53	4.07	4.36	3.12	
373.00	5.100	52.200	372.73	5.88	6.42	7.19	2.66	
419.00	6.000	56.400	418.52	8.96	9.01	10.81	2.15	
464.00	6.900	58.100	463.23	12.64	11.74	15.06	2.04	
509.00	7.800	58.100	507.86	16.89	14.78	19.95	2.00	
554.00	8.400	59.900	552.41	21.63	18.04	25.38	1.45	
600.00	9.300	64.500	597.87	27.18	21.33	31.64	2.49	
690.00	11.500	72.200	686.39	40.95	27.20	46.75	2.89	
780.00	11.900	84.100	774.53	57.74	30.90	64.53	2.71	
871.00	12.200	93.600	863.53	76.28	31.26	83.46	2.20	
894.00	12.300	95.000	886.01	81.13	30.89	88.32	1.36	
968.00	12.400	102.100	958.30	96.92	28.54	103.95	2.06	
1013.00	13.600	105.900	1002.15	107.02	26.08	113.76	3.27	
1059.00	14.800	106.600	1046.74	118.25	22.92	124.59	2.64	
1104.00	15.600	109.800	1090.17	129.94	19.23	135.79	2.58	
1149.00	16.500	111.600	1133.41	142.18	14.82	147.43	2.29	
1194.00	17.500	110.200	1176.45	155.13	10.14	159.72	2.40	
1239.00	18.000	110.500	1219.30	168.65	5.36	172.58	1.13	
1285.00	18.600	111.200	1262.98	182.86	0.22	186.08	1.39	
1330.00	19.300	109.100	1305.54	197.27	-4.81	199.80	2.17	
1375.00	20.000	109.800	1347.92	212.22	-9.85	214.06	1.64	
1420.00	20.900	110.200	1390.08	227.73	-15.23	228.84	2.02	
1511.00	22.500	110.500	1474.63	260.89	-26.93	260.38	1.76	
1601.00	23.200	109.500	1557.57	295.37	-38.88	293.22	0.89	
1690.00	23.600	107.400	1639.25	330.38	-50.06	326.75	1.04	
1780.00	23.800	105.600	1721.66	366.36	-60.33	361.43	0.83	
1868.00	23.500	103.500	1802.27	401.57	-69.20	395.60	1.02	
1959.00	23.200	102.800	1885.82	437.61	-77.41	430.72	0.45	
2048.00	22.900	102.400	1967.71	472.43	-85.01	464.72	0.38	
2138.00	22.400	103.100	2050.77	507.06	-92.65	498.53	0.63	
2227.00	22.200	100.300	2133.12	540.82	-99.50	531.59	1.21	
2316.00	21.200	97.200	2215.81	573.70	-104.53	564.10	1.71	
2404.00	20.500	96.500	2298.05	604.95	-108.27	595.19	0.84	
2493.00	19.800	95.400	2381.60	635.51	-111.45	625.69	0.89	
2583.00	20.600	96.800	2466.06	666.49	-114.76	656.58	1.04	
2674.00	19.500	96.200	2551.55	697.61	-118.29	687.58	1.23	
2765.00	19.700	94.000	2637.28	727.99	-121.01	717.98	0.84	
2855.00	20.300	96.500	2721.85	758.63	-123.83	748.63	1.16	
2944.00	19.900	99.300	2805.43	789.17	-128.03	778.91	1.17	



# Actual Wellpath Report

RIVERBEND 9-12 AWP

Page 3 of 6



INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 RIVERBEND 9-12 (2419'FSL & 2139'FEL)
Area	COLORADO	Well	RIVERBEND 9-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 9-12 AWB
Facility	SEC.12-T1N-R67W		

## WELLPATH DATA (114 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3034.00	20.700	100.000	2889.84	820.39	-133.26	809.69	0.93	
3125.00	21.300	100.700	2974.80	853.00	-139.13	841.77	0.71	
3211.00	21.700	99.600	3054.81	884.52	-144.68	872.80	0.66	
3302.00	20.700	102.100	3139.65	917.42	-150.85	905.11	1.48	
3389.00	20.600	103.100	3221.06	948.08	-157.55	935.06	0.42	
3478.00	21.300	104.200	3304.18	979.86	-165.06	965.98	0.90	
3568.00	22.000	104.900	3387.83	1012.98	-173.40	998.11	0.83	
3656.00	22.300	105.600	3469.34	1046.05	-182.13	1030.12	0.45	
3744.00	22.200	102.400	3550.79	1079.30	-190.19	1062.44	1.38	
3835.00	21.900	104.200	3635.13	1113.42	-198.05	1095.69	0.81	
3925.00	21.300	101.000	3718.81	1146.52	-205.28	1128.01	1.47	
4016.00	21.300	98.100	3803.60	1179.56	-210.77	1160.59	1.16	
4106.00	20.700	98.900	3887.62	1211.79	-215.53	1192.49	0.74	
4196.00	20.700	101.000	3971.81	1243.60	-221.03	1223.82	0.82	
4285.00	20.800	97.200	4055.05	1275.10	-226.01	1254.94	1.52	
4373.00	21.500	99.300	4137.12	1306.82	-230.57	1286.36	1.17	
4464.00	22.200	101.400	4221.58	1340.68	-236.67	1319.67	1.15	
4555.00	22.700	103.500	4305.69	1375.41	-244.16	1353.60	1.04	
4644.00	20.700	102.100	4388.38	1408.29	-251.47	1385.68	2.32	
4734.00	18.700	101.000	4473.10	1438.62	-257.56	1415.40	2.26	
4779.00	18.200	101.700	4515.79	1452.86	-260.36	1429.36	1.22	
4824.00	18.200	102.800	4558.54	1466.91	-263.34	1443.09	0.76	
4870.00	17.600	103.100	4602.31	1481.04	-266.51	1456.87	1.32	
4915.00	17.100	104.200	4645.27	1494.44	-269.68	1469.91	1.33	
4960.00	16.500	104.200	4688.34	1507.42	-272.87	1482.52	1.33	
5005.00	16.400	104.200	4731.50	1520.13	-275.99	1494.88	0.22	
5048.00	15.900	103.800	4772.81	1532.07	-278.89	1506.48	1.19	
5094.00	14.900	107.400	4817.15	1544.24	-282.16	1518.24	3.01	
5139.00	14.200	108.800	4860.71	1555.45	-285.67	1528.99	1.74	
5184.00	13.300	109.100	4904.42	1566.03	-289.14	1539.11	2.01	
5229.00	12.800	107.700	4948.26	1576.09	-292.35	1548.75	1.31	
5274.00	11.700	108.000	4992.23	1585.57	-295.27	1557.83	2.45	
5320.00	10.700	104.200	5037.36	1594.45	-297.76	1566.41	2.70	
5363.00	10.300	103.500	5079.64	1602.28	-299.64	1574.02	0.98	
5408.00	9.200	102.100	5123.99	1609.89	-301.33	1581.45	2.50	
5452.00	8.400	99.300	5167.47	1616.62	-302.59	1588.06	2.06	
5497.00	7.700	101.000	5212.02	1622.92	-303.70	1594.26	1.64	
5541.00	6.700	103.100	5255.68	1628.43	-304.84	1599.66	2.35	
5585.00	5.500	103.800	5299.43	1633.10	-305.93	1604.20	2.73	
5630.00	4.500	107.400	5344.26	1637.01	-306.97	1607.98	2.33	
5675.00	3.500	104.900	5389.15	1640.13	-307.85	1610.99	2.26	
5720.00	3.000	98.200	5434.07	1642.68	-308.37	1613.49	1.39	
5765.00	2.600	95.400	5479.02	1644.87	-308.63	1615.67	0.94	
5810.00	1.900	92.200	5523.98	1646.63	-308.76	1617.43	1.58	
5898.00	0.900	61.600	5611.96	1648.61	-308.49	1619.50	1.38	



# Actual Wellpath Report

RIVERBEND 9-12 AWP

Page 4 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 RIVERBEND 9-12 (2419'FSL & 2139'FEL)
Area	COLORADO	Well	RIVERBEND 9-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 9-12 AWP
Facility	SEC.12-T1N-R67W		

WELLPATH DATA (114 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5987.00	0.900	55.700	5700.95	1649.64	-307.76	1620.69	0.10	
6077.00	0.600	52.900	5790.94	1650.46	-307.08	1621.65	0.34	
6167.00	0.500	25.100	5880.94	1650.88	-306.44	1622.19	0.31	
6256.00	0.400	11.000	5969.93	1650.98	-305.78	1622.41	0.17	
6346.00	0.100	347.100	6059.93	1650.95	-305.40	1622.46	0.35	
6435.00	0.200	52.500	6148.93	1651.02	-305.23	1622.56	0.21	
6525.00	0.000	239.200	6238.93	1651.13	-305.13	1622.69	0.22	
6614.00	0.100	149.500	6327.93	1651.18	-305.20	1622.73	0.11	
6703.00	0.100	179.400	6416.93	1651.24	-305.34	1622.77	0.06	
6792.00	0.600	172.700	6505.93	1651.40	-305.88	1622.83	0.56	
6881.00	0.800	155.500	6594.92	1651.90	-306.91	1623.14	0.32	
6971.00	1.300	143.200	6684.91	1653.01	-308.30	1624.02	0.61	
7061.00	1.600	146.000	6774.88	1654.65	-310.16	1625.33	0.34	
7152.00	1.000	160.400	6865.85	1655.94	-311.96	1626.31	0.75	
7242.00	2.600	119.000	6955.81	1658.27	-313.69	1628.36	2.18	
7329.00	2.300	128.100	7042.73	1661.69	-315.72	1631.46	0.56	
7419.00	2.400	104.200	7132.66	1665.18	-317.30	1634.70	1.09	
7508.00	1.500	133.000	7221.61	1668.02	-318.55	1637.36	1.47	
7599.00	3.000	119.700	7312.53	1671.28	-320.54	1640.30	1.73	
7689.00	1.700	56.400	7402.47	1674.46	-320.97	1643.46	3.00	
7781.00	0.400	56.400	7494.45	1675.67	-320.04	1644.86	1.41	
7872.00	0.100	321.500	7585.45	1675.83	-319.80	1645.08	0.46	
7910.00	0.400	346.100	7623.45	1675.75	-319.65	1645.03	0.82	LAST BHI MWD SURVEY
7966.00	0.400	346.100	7679.45	1675.59	-319.27	1644.93	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: RIVERBEND 9-12 AWP Ref Wellpath: RIVERBEND 9-12 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	957.00	942.00	15.00	947.56	0.00	0.00	29.01	101.63
8.625in Casing Surface	15.00	957.00	942.00	15.00	947.56	0.00	0.00	29.01	101.63
7.875in Open Hole	957.00	7966.00	7009.00	947.56	7679.45	29.01	101.63	-319.27	1644.93



# Actual Wellpath Report

RIVERBEND 9-12 AWP

Page 5 of 6



INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 RIVERBEND 9-12 (2419'FSL & 2139'FEL)
Area	COLORADO	Well	RIVERBEND 9-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 9-12 AWB
Facility	SEC.12-T1N-R67W		

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
RIVERBEND 9-12 BHL ON PLAT (2130'FSL & 510'FEL, REV-1)		6000.00	-281.18	1630.70	3187069.07	1266936.11	40°03'51.098"N	104°49'53.857"W	point
RIVERBEND 9-12 GEO TARGET 50' RADIUS (2106'FSL & 510'FEL, REV-2)		6000.00	-305.18	1630.70	3187069.25	1266912.11	40°03'50.861"N	104°49'53.857"W	circle
RIVERBEND 9-12 LEGAL BOX (50'N,350'S,55'E,345'W OF GEO TARGET)		6000.00	-455.18	1485.70	3186925.38	1266761.04	40°03'49.379"N	104°49'55.722"W	square

## WELLPATH COMPOSITION Ref Wellbore: RIVERBEND 9-12 AWB Ref Wellpath: RIVERBEND 9-12 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	894.00	NaviTrak (Standard)	BHI MWD SURVEY 12.25 HOLE <141-894>	RIVERBEND 9-12 AWB
894.00	7910.00	NaviTrak (Standard)	BHI MWD SURVEY 7.875 HOLE <968-7910>	RIVERBEND 9-12 AWB
7910.00	7966.00	Blind Drilling (std)	Projection to bit	RIVERBEND 9-12 AWB



# Actual Wellpath Report

RIVERBEND 9-12 AWP

Page 6 of 6



**INTEQ**

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 RIVERBEND 9-12 (2419'FSL & 2139'FEL)
Area	COLORADO	Well	RIVERBEND 9-12
Field	WELD COUNTY (KERR MCGEE)	Wellbore	RIVERBEND 9-12 AWB
Facility	SEC.12-T1N-R67W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7910.00	0.400	346.100	7623.45	LAST BHI MWD SURVEY
7966.00	0.400	346.100	7679.45	PROJECTION TO BIT