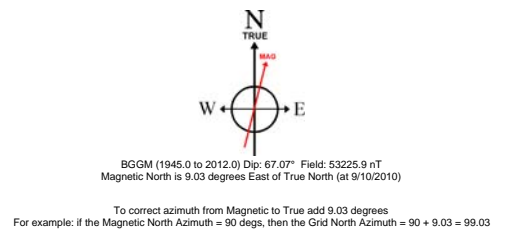
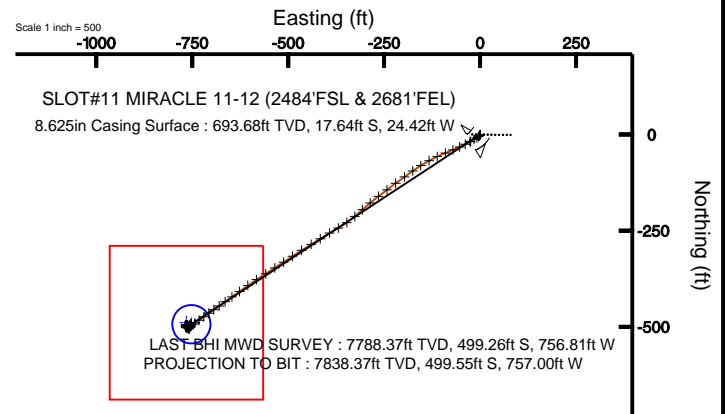
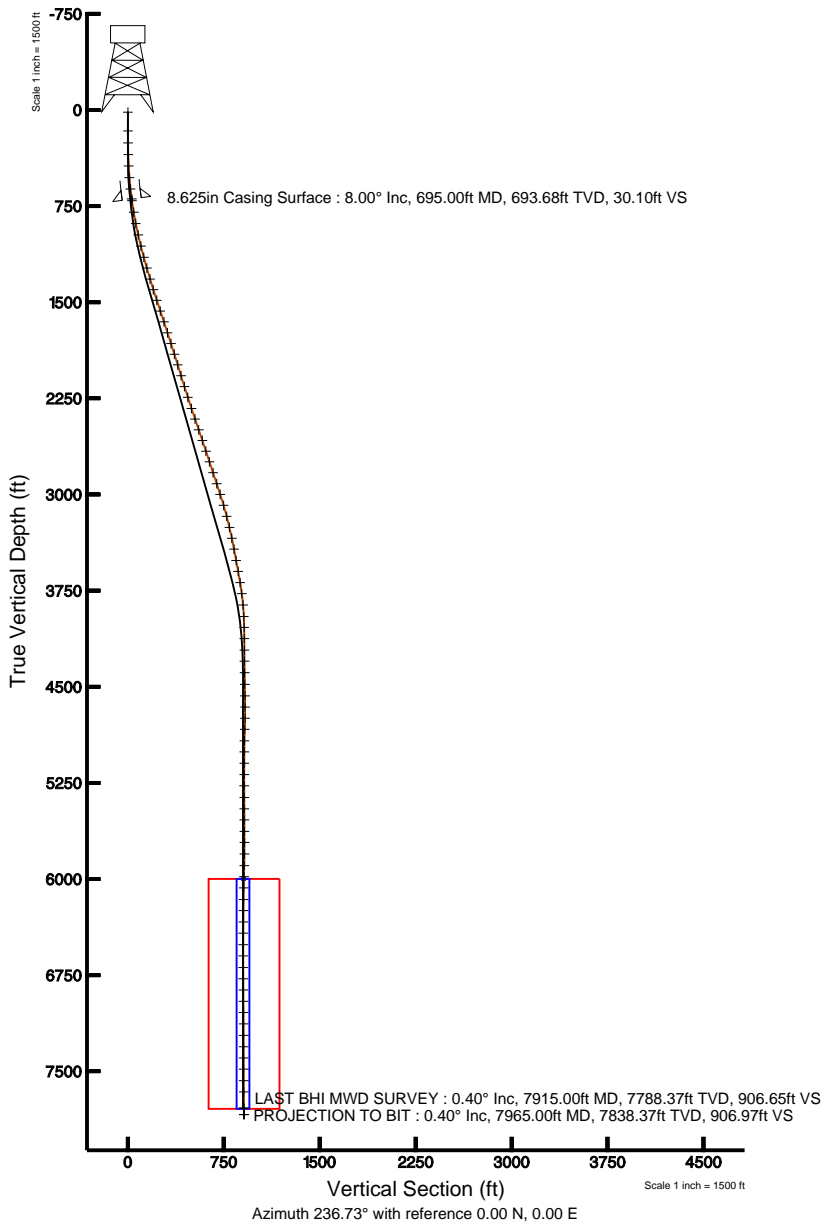


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#11 MIRACLE 11-12 (2484'FSL & 2681'FEL)  
 Field: LARIMER COUNTY Well: MIRACLE 11-12  
 Facility: SEC.12-T9N-R68W Wellbore: MIRACLE 11-12 PWB



Plot reference wellpath is MIRACLE 11-12 (REV-A.0) PWP	
True vertical depths are referenced to XTREME 6 (RT)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 6 (RT)	North Reference: True north
XTREME 6 (RT) to Mean Sea Level: 4978 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.12-T9N-R68W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdarm on 9/20/2010





# Actual Wellpath Report

MIRACLE 11-12 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#11 MIRACLE 11-12 (2484'FSL & 2681'FEL)
Area	COLORADO	Well	MIRACLE 11-12
Field	LARIMER COUNTY	Wellbore	MIRACLE 11-12 AWB
Facility	SEC.12-T5N-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	9/20/2010 at 5:28:10 PM
Convergence at slot	0.35° East	Database/Source file	Denver Server/MIRACLE_11-12_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	46.75	-2405.10	3152015.28	1394095.35	40°24'50.072"N	104°57'14.648"W
Facility Reference Pt			3154420.53	1394063.64	40°24'49.612"N	104°56'43.555"W
Field Reference Pt			3154420.53	1394063.64	40°24'49.612"N	104°56'43.555"W

## WELLPATH DATUM

Calculation method	Minimum curvature	XTREME 6 (RT) to Facility Vertical Datum	4978.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RT) to Mean Sea Level	4978.00ft
Vertical Reference Pt	XTREME 6 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 6 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	236.73°



# Actual Wellpath Report

MIRACLE 11-12 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#11 MIRACLE 11-12 (2484'FSL & 2681'FEL)
Area	COLORADO	Well	MIRACLE 11-12
Field	LARIMER COUNTY	Wellbore	MIRACLE 11-12 AWB
Facility	SEC.12-T5N-R68W		

## WELLPATH DATA (91 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	206.000	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	206.000	16.00	0.00	0.00	0.00	0.00	
163.00	0.700	206.000	163.00	0.77	-0.81	-0.39	0.48	
256.00	0.900	213.300	255.99	1.93	-1.93	-1.04	0.24	
347.00	1.000	220.300	346.97	3.35	-3.13	-1.95	0.17	
436.00	2.600	227.000	435.93	6.08	-5.10	-3.93	1.81	
527.00	4.100	236.100	526.77	11.37	-8.32	-8.14	1.74	
616.00	6.900	242.000	615.35	19.88	-12.61	-15.50	3.21	
709.00	8.200	239.000	707.54	32.07	-18.65	-26.12	1.46	
800.00	9.600	245.000	797.45	46.06	-25.20	-38.56	1.84	
889.00	11.300	245.000	884.97	62.04	-32.02	-53.19	1.91	
980.00	13.000	247.300	973.93	80.92	-39.74	-70.71	1.94	
1070.00	14.200	247.000	1061.40	101.74	-47.96	-90.21	1.34	
1161.00	15.600	246.000	1149.34	124.80	-57.29	-111.67	1.56	
1248.00	16.000	241.000	1233.06	148.30	-67.87	-132.84	1.63	
1337.00	16.700	237.600	1318.46	173.32	-80.67	-154.37	1.33	
1424.00	17.300	235.400	1401.66	198.75	-94.71	-175.57	1.01	
1511.00	18.200	233.700	1484.52	225.25	-110.10	-197.17	1.19	
1600.00	18.800	233.300	1568.92	253.45	-126.90	-219.87	0.69	
1688.00	18.500	233.300	1652.30	281.54	-143.72	-242.43	0.34	
1778.00	17.800	232.200	1737.82	309.50	-160.68	-264.75	0.87	
1867.00	18.300	230.200	1822.44	336.95	-177.96	-286.23	0.89	
1954.00	18.000	228.400	1905.11	363.82	-195.63	-306.78	0.73	
2041.00	17.100	229.500	1988.06	389.81	-212.86	-326.56	1.10	
2130.00	17.300	234.700	2073.09	416.01	-229.01	-347.31	1.74	
2219.00	17.100	240.400	2158.11	442.30	-243.12	-369.49	1.91	
2307.00	17.500	239.300	2242.13	468.43	-256.26	-392.11	0.59	
2398.00	18.800	237.900	2328.60	496.76	-271.04	-416.30	1.51	
2485.00	18.900	239.300	2410.94	524.85	-285.69	-440.29	0.53	
2574.00	19.300	237.200	2495.04	553.96	-301.01	-465.05	0.89	
2662.00	18.700	236.100	2578.24	582.61	-316.76	-488.98	0.79	
2750.00	18.100	236.800	2661.74	610.38	-332.11	-512.13	0.73	
2837.00	18.300	236.800	2744.39	637.56	-346.99	-534.87	0.23	
2927.00	18.400	238.300	2829.82	665.88	-362.19	-558.78	0.54	
3017.00	18.400	236.500	2915.21	694.29	-377.50	-582.71	0.63	
3105.00	17.800	235.100	2998.86	721.62	-392.86	-605.32	0.84	
3195.00	16.600	233.300	3084.83	748.21	-408.41	-626.91	1.46	
3284.00	15.000	235.400	3170.47	772.41	-422.55	-646.59	1.91	
3373.00	13.300	234.400	3256.77	794.16	-435.05	-664.39	1.93	
3460.00	11.800	235.400	3341.69	813.05	-445.93	-679.85	1.74	
3547.00	10.800	236.100	3427.00	830.09	-455.53	-693.94	1.16	
3636.00	10.200	234.000	3514.51	846.30	-464.81	-707.24	0.80	
3723.00	10.700	233.300	3600.06	862.06	-474.16	-719.94	0.59	
3812.00	9.500	234.700	3687.68	877.65	-483.35	-732.56	1.38	
3899.00	7.500	238.900	3773.72	890.50	-490.43	-743.29	2.41	



# Actual Wellpath Report

MIRACLE 11-12 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#11 MIRACLE 11-12 (2484'FSL & 2681'FEL)
Area	COLORADO	Well	MIRACLE 11-12
Field	LARIMER COUNTY	Wellbore	MIRACLE 11-12 AWB
Facility	SEC.12-T5N-R68W		

## WELLPATH DATA (91 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3988.00	5.600	242.100	3862.14	900.63	-495.46	-752.10	2.17	
4078.00	2.000	227.700	3951.93	906.55	-498.57	-757.14	4.11	
4163.00	1.400	226.300	4036.89	909.04	-500.29	-758.99	0.71	
4251.00	0.400	252.000	4124.88	910.39	-501.13	-760.06	1.20	
4340.00	0.500	231.600	4213.88	911.08	-501.46	-760.66	0.21	
4427.00	0.600	241.800	4300.87	911.91	-501.91	-761.36	0.16	
4517.00	0.800	261.100	4390.87	912.95	-502.23	-762.39	0.34	
4607.00	1.000	257.600	4480.85	914.26	-502.50	-763.78	0.23	
4698.00	1.100	269.900	4571.84	915.73	-502.67	-765.43	0.27	
4785.00	1.900	324.700	4658.81	916.48	-501.50	-767.10	1.78	
4872.00	2.100	353.200	4745.76	915.82	-498.74	-768.12	1.15	
4959.00	2.000	23.400	4832.71	913.84	-495.76	-767.71	1.23	
5048.00	1.300	79.300	4921.68	911.61	-494.15	-766.10	1.87	
5135.00	1.100	133.100	5008.66	910.51	-494.54	-764.52	1.26	
5223.00	1.100	138.800	5096.64	910.19	-495.75	-763.35	0.12	
5312.00	0.800	129.000	5185.63	909.88	-496.78	-762.30	0.38	
5400.00	0.700	142.600	5273.62	909.66	-497.60	-761.50	0.23	
5490.00	1.300	152.100	5363.61	909.71	-498.93	-760.68	0.69	
5579.00	1.100	158.000	5452.59	909.97	-500.62	-759.89	0.26	
5666.00	1.100	178.500	5539.57	910.58	-502.23	-759.56	0.45	
5755.00	0.900	181.000	5628.56	911.42	-503.78	-759.55	0.23	
5842.00	1.100	161.000	5715.55	912.01	-505.25	-759.29	0.46	
5931.00	0.500	41.000	5804.54	911.85	-505.77	-758.75	1.59	
6022.00	1.700	23.000	5895.52	910.34	-504.23	-757.97	1.36	
6109.00	1.700	23.100	5982.49	908.19	-501.85	-756.96	0.00	
6196.00	1.100	32.200	6069.46	906.36	-499.96	-756.00	0.73	
6287.00	1.200	25.600	6160.44	904.75	-498.36	-755.13	0.18	
6373.00	1.000	23.100	6246.43	903.35	-496.86	-754.44	0.24	
6462.00	0.800	14.000	6335.41	902.25	-495.54	-753.99	0.28	
6550.00	0.400	11.500	6423.41	901.58	-494.64	-753.78	0.46	
6640.00	0.200	285.400	6513.41	901.47	-494.29	-753.87	0.48	
6727.00	0.200	350.100	6600.41	901.51	-494.10	-754.04	0.25	
6818.00	0.300	287.500	6691.41	901.59	-493.87	-754.29	0.30	
6905.00	0.400	225.000	6778.41	902.04	-494.02	-754.73	0.43	
6993.00	0.400	203.400	6866.40	902.59	-494.52	-755.07	0.17	
7082.00	0.900	209.000	6955.40	903.47	-495.42	-755.53	0.57	
7169.00	0.900	183.100	7042.39	904.48	-496.70	-755.90	0.46	
7258.00	0.600	207.700	7131.38	905.30	-497.81	-756.15	0.49	
7347.00	0.400	39.300	7220.38	905.41	-497.98	-756.17	1.12	
7436.00	0.100	37.200	7309.38	905.04	-497.68	-755.93	0.34	
7524.00	0.300	223.100	7397.38	905.20	-497.78	-756.04	0.45	
7611.00	0.000	6.200	7484.38	905.42	-497.95	-756.19	0.34	
7701.00	0.300	191.100	7574.38	905.58	-498.18	-756.24	0.33	
7788.00	0.300	209.800	7661.38	905.94	-498.60	-756.40	0.11	
7915.00	0.400	214.000	7788.37	906.65	-499.26	-756.81	0.08	LAST BHI MWD SURVEY



# Actual Wellpath Report

MIRACLE 11-12 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#11 MIRACLE 11-12 (2484'FSL & 2681'FEL)
Area	COLORADO	Well	MIRACLE 11-12
Field	LARIMER COUNTY	Wellbore	MIRACLE 11-12 AWB
Facility	SEC.12-T5N-R68W		

## WELLPATH DATA (91 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
7965.00	0.400	214.000	7838.37	906.97	-499.55	-757.00	0.00	PROJECTION TO BIT

## HOLE & CASING SECTIONS Ref Wellbore: MIRACLE 11-12 AWB Ref Wellpath: MIRACLE 11-12 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	0.00	695.00	695.00	0.00	693.68	0.00	0.00	-17.64	-24.42
8.625in Casing Surface	16.00	695.00	679.00	16.00	693.68	0.00	0.00	-17.64	-24.42
7.875in Open Hole	695.00	7965.00	7270.00	693.68	7838.37	-17.64	-24.42	-499.55	-757.00

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
MIRACLE 11-12 GEO TARGET 50' RADIUS (1977'FSL & 2079'FWL, REV-1)		6000.00	-493.63	-752.43	3151265.94	1393597.11	40°24'45.194"N	104°57'24.376"W	circle
MIRACLE 11-12 LEGAL BOX (204'N,196'S,213'W,187'E OF GEO TARGET)		6000.00	-489.63	-765.43	3151252.91	1393601.04	40°24'45.234"N	104°57'24.544"W	square

## WELLPATH COMPOSITION Ref Wellbore: MIRACLE 11-12 AWB Ref Wellpath: MIRACLE 11-12 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	616.00	NaviTrak (Standard)	BHI MWD SURFACE SURVEYS <163-616>	MIRACLE 11-12 AWB
616.00	7915.00	NaviTrak (Standard)	BHI MWD INTERMEDIATE TO PRODUCTION SURVEYS <709-7915>	MIRACLE 11-12 AWB
7915.00	7965.00	Blind Drilling (std)	Projection to bit	MIRACLE 11-12 AWB



# Actual Wellpath Report

MIRACLE 11-12 AWP

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**INTEQ**

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#11 MIRACLE 11-12 (2484'FSL & 2681'FEL)
Area	COLORADO	Well	MIRACLE 11-12
Field	LARIMER COUNTY	Wellbore	MIRACLE 11-12 AWB
Facility	SEC.12-T5N-R68W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7915.00	0.400	214.000	7788.37	LAST BHI MWD SURVEY
7965.00	0.400	214.000	7838.37	PROJECTION TO BIT