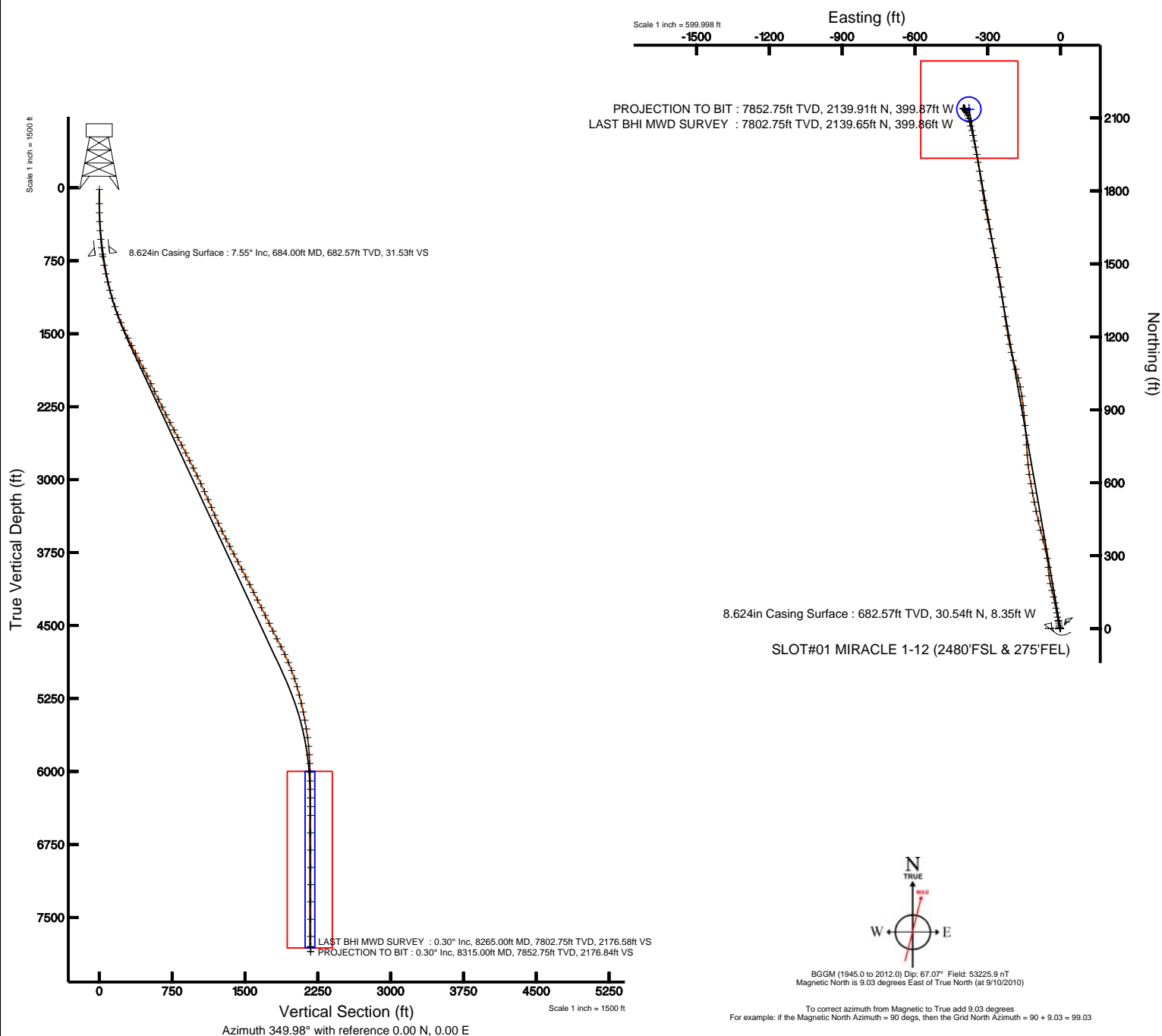


Location:	COLORADO	Slot:	SLOT#01 MIRACLE 1-12 (2480'FSL & 275'FEL)
Field:	LARIMER COUNTY	Well:	MIRACLE 1-12
Facility:	SEC.12-T5N-R68W	Wellbore:	MIRACLE 1-12 PWB



Plot reference waypoint is MIRACLE 1-12 (REV-8.0) 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: 4964 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC-12-TSN-R68W): 0 feet	Depths are in: foot/meters
Coordinates are in feet referenced to State	
Copied by: coolstream on 8/20/2010	





Actual Wellpath Report

MIRACLE 1-12 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MIRACLE 1-12 (2480'FSL & 275'FEL)
Area	COLORADO	Well	MIRACLE 1-12
Field	LARIMER COUNTY	Wellbore	MIRACLE 1-12 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 4:12:50 PM
Convergence at slot	0.36° East	Database/Source file	Denver Server/MIRACLE_1-12_AWB.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	3154420.53	1394063.64	40°24'49.612"N	104°56'43.555"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	4964.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RT) to Mean Sea Level	4964.00ft
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	349.98°



Actual Wellpath Report

MIRACLE 1-12 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MIRACLE 1-12 (2480'FSL & 275'FEL)
Area	COLORADO	Well	MIRACLE 1-12
Field	LARIMER COUNTY	Wellbore	MIRACLE 1-12 AWB
Facility	SEC.12-T5N-R68W		

WELLPATH DATA (88 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	220.000	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	220.000	16.00	0.00	0.00	0.00	0.00	
163.00	0.400	220.000	163.00	-0.33	-0.39	-0.33	0.27	
256.00	0.800	319.100	256.00	0.02	-0.15	-0.96	1.02	
347.00	2.500	338.100	346.95	2.51	2.17	-2.12	1.94	
440.00	3.500	339.500	439.83	7.28	6.71	-3.87	1.08	
530.00	5.400	353.200	529.55	14.21	13.49	-5.33	2.40	
618.00	6.600	350.100	617.07	23.41	22.58	-6.69	1.41	
708.00	7.900	345.600	706.35	34.74	33.67	-9.12	1.58	
798.00	9.900	349.000	795.26	48.65	47.26	-12.14	2.30	
889.00	12.100	350.100	884.58	66.01	64.33	-15.27	2.43	
976.00	14.300	350.100	969.28	85.88	83.90	-18.68	2.53	
1063.00	15.700	348.000	1053.31	108.39	106.00	-22.98	1.73	
1150.00	17.300	346.600	1136.73	133.06	130.10	-28.43	1.89	
1239.00	18.700	345.900	1221.37	160.51	156.81	-34.97	1.59	
1327.00	20.600	347.600	1304.24	190.05	185.62	-41.73	2.25	
1414.00	22.700	353.200	1385.11	222.11	217.24	-47.00	3.38	
1501.00	24.600	355.700	1464.80	256.89	251.97	-50.35	2.47	
1589.00	25.700	350.100	1544.47	294.20	289.04	-55.01	2.98	
1676.00	27.000	346.600	1622.43	332.79	326.84	-62.83	2.33	
1763.00	27.700	346.600	1699.71	372.69	365.72	-72.09	0.80	
1850.00	27.200	345.500	1776.91	412.70	404.64	-81.75	0.82	
1938.00	27.000	346.600	1855.25	452.69	443.55	-91.42	0.61	
2026.00	26.400	346.900	1933.87	492.16	482.03	-100.48	0.70	
2115.00	25.400	350.100	2013.93	531.01	520.11	-108.25	1.93	
2202.00	25.700	350.000	2092.42	568.54	557.07	-114.73	0.35	
2293.00	25.700	349.400	2174.42	608.00	595.90	-121.79	0.29	
2380.00	26.300	350.400	2252.62	646.13	633.44	-128.47	0.85	
2470.00	26.600	354.600	2333.20	686.16	673.16	-133.70	2.10	
2559.00	28.300	356.000	2412.18	727.00	714.05	-137.04	2.04	
2647.00	28.500	356.800	2489.59	768.60	755.82	-139.67	0.49	
2734.00	26.500	356.000	2566.76	808.51	795.91	-142.18	2.34	
2823.00	26.900	353.900	2646.27	848.34	835.74	-145.71	1.15	
2913.00	27.600	354.300	2726.28	889.45	876.73	-149.94	0.80	
3001.00	27.300	353.900	2804.37	929.91	917.08	-154.11	0.40	
3088.00	26.000	351.100	2882.13	968.88	955.76	-159.18	2.08	
3177.00	25.700	349.000	2962.23	1007.68	993.98	-165.88	1.08	
3266.00	25.100	346.000	3042.63	1045.81	1031.24	-174.13	1.60	
3355.00	24.500	343.000	3123.42	1082.96	1067.21	-184.09	1.57	
3445.00	24.000	344.800	3205.48	1119.71	1102.72	-194.35	0.99	
3532.00	22.400	347.600	3285.45	1153.90	1135.98	-202.55	2.23	
3620.00	24.000	348.000	3366.33	1188.54	1169.87	-209.87	1.83	
3709.00	24.700	350.400	3447.41	1225.22	1205.91	-216.73	1.36	
3800.00	25.800	350.800	3529.72	1264.04	1244.20	-223.07	1.22	
3888.00	26.900	352.500	3608.57	1303.08	1282.84	-228.73	1.52	



Actual Wellpath Report

MIRACLE 1-12 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MIRACLE 1-12 (2480'FSL & 275'FEL)
Area	COLORADO	Well	MIRACLE 1-12
Field	LARIMER COUNTY	Wellbore	MIRACLE 1-12 AWB
Facility	SEC.12-T5N-R68W		

WELLPATH DATA (88 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3976.00	27.900	352.200	3686.70	1343.54	1322.98	-234.12	1.15	
4064.00	28.600	351.500	3764.22	1385.17	1364.21	-240.03	0.88	
4153.00	27.000	351.500	3842.94	1426.66	1405.26	-246.17	1.80	
4243.00	27.100	349.700	3923.10	1467.58	1445.64	-252.85	0.92	
4330.00	28.000	350.400	4000.23	1507.82	1485.27	-259.80	1.10	
4419.00	27.100	347.600	4079.14	1548.97	1525.67	-267.64	1.77	
4508.00	26.300	347.000	4158.65	1588.91	1564.68	-276.43	0.95	
4597.00	26.400	349.400	4238.41	1628.39	1603.34	-284.50	1.20	
4686.00	27.700	349.100	4317.67	1668.86	1643.11	-292.05	1.47	
4775.00	26.800	347.600	4396.79	1709.59	1683.02	-300.27	1.27	
4865.00	25.900	348.700	4477.44	1749.51	1722.11	-308.48	1.14	
4954.00	26.400	351.100	4557.33	1788.73	1760.72	-315.35	1.31	
5044.00	27.300	351.500	4637.63	1829.37	1800.90	-321.50	1.02	
5135.00	27.200	350.800	4718.53	1871.03	1842.07	-327.91	0.37	
5224.00	25.600	352.200	4798.25	1910.58	1881.20	-333.77	1.93	
5314.00	22.700	350.100	4880.36	1947.38	1917.58	-339.40	3.36	
5403.00	20.800	350.100	4963.02	1980.36	1950.07	-345.07	2.13	
5492.00	19.200	347.600	5046.66	2010.79	1979.93	-350.93	2.04	
5579.00	15.700	349.700	5129.64	2036.86	2005.49	-356.11	4.09	
5668.00	14.400	347.300	5215.59	2059.96	2028.14	-360.69	1.62	
5757.00	13.000	345.500	5302.05	2080.99	2048.63	-365.63	1.64	
5846.00	11.800	345.900	5388.97	2100.05	2067.14	-370.35	1.35	
5933.00	10.600	345.100	5474.32	2116.90	2083.50	-374.58	1.39	
6024.00	9.200	344.100	5563.96	2132.48	2098.59	-378.72	1.55	
6114.00	7.900	342.700	5652.96	2145.77	2111.41	-382.54	1.46	
6203.00	5.300	327.600	5741.37	2155.64	2120.73	-386.56	3.49	
6291.00	4.600	325.500	5829.04	2162.61	2127.07	-390.73	0.82	
6381.00	2.800	352.200	5918.85	2168.09	2132.22	-393.08	2.72	
6470.00	0.800	343.700	6007.80	2170.88	2134.97	-393.55	2.26	
6560.00	0.700	9.100	6097.80	2172.02	2136.12	-393.64	0.38	
6647.00	0.800	344.400	6184.79	2173.13	2137.23	-393.71	0.39	
6734.00	0.700	352.900	6271.78	2174.27	2138.34	-393.94	0.17	
6824.00	0.400	356.000	6361.78	2175.13	2139.20	-394.03	0.33	
6915.00	0.700	291.000	6452.77	2175.73	2139.71	-394.57	0.71	
7093.00	0.600	271.700	6630.76	2176.48	2140.13	-396.52	0.13	
7271.00	0.400	248.100	6808.76	2176.54	2139.93	-398.03	0.16	
7449.00	0.400	301.200	6986.75	2176.82	2140.02	-399.14	0.20	
7627.00	0.100	29.800	7164.75	2177.35	2140.47	-399.59	0.23	
7803.00	0.100	171.100	7340.75	2177.32	2140.45	-399.49	0.11	
7982.00	0.300	188.000	7519.75	2176.71	2139.84	-399.53	0.12	
8159.00	0.100	268.000	7696.75	2176.29	2139.37	-399.75	0.17	
8265.00	0.300	357.100	7802.75	2176.58	2139.65	-399.86	0.30	LAST BHI MWD SURVEY
8315.00	0.300	357.100	7852.75	2176.84	2139.91	-399.87	0.00	PROJECTION TO BIT



Actual Wellpath Report

MIRACLE 1-12 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MIRACLE 1-12 (2480'FSL & 275'FEL)
Area	COLORADO	Well	MIRACLE 1-12
Field	LARIMER COUNTY	Wellbore	MIRACLE 1-12 AWP
Facility	SEC.12-T5N-R68W		

HOLE & CASING SECTIONS Ref Wellbore: MIRACLE 1-12 AWP Ref Wellpath: MIRACLE 1-12 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	16.00	694.00	678.00	16.00	692.48	0.00	0.00	31.83	-8.66
8.624in Casing Surface	16.00	684.00	668.00	16.00	682.57	0.00	0.00	30.54	-8.35
7.875in Open Hole	684.00	8315.00	7631.00	682.57	7852.75	30.54	-8.35	2139.91	-399.87

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
MIRACLE 1-12 GEO TARGET 50' RADIUS (659'FNL & 677'FEL, REV-1)		6000.00	2136.70	-377.57	3154029.62	1396197.85	40°25'10.726"N	104°56'48.437"W	circle
MIRACLE 1-12 LEGAL BOX (198'N,202'S,198'W,202'E OF GEO TARGET)		6000.00	2134.70	-375.57	3154031.63	1396195.87	40°25'10.706"N	104°56'48.411"W	square

WELLPATH COMPOSITION Ref Wellbore: MIRACLE 1-12 AWP Ref Wellpath: MIRACLE 1-12 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	618.00	NaviTrak (Standard)	SURFACE BHI MWD 12.25 HOLE <163-618>	MIRACLE 1-12 AWP
618.00	8265.00	NaviTrak (Standard)	INTERMEDIATE TO TD BHI MWD 7.785 HOLE <708-8265>	MIRACLE 1-12 AWP
8265.00	8315.00	Blind Drilling (std)	Projection to bit	MIRACLE 1-12 AWP



Actual Wellpath Report

MIRACLE 1-12 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MIRACLE 1-12 (2480'FSL & 275'FEL)
Area	COLORADO	Well	MIRACLE 1-12
Field	LARIMER COUNTY	Wellbore	MIRACLE 1-12 AWB
Facility	SEC.12-T5N-R68W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8265.00	0.300	357.100	7802.75	LAST BHI MWD SURVEY
8315.00	0.300	357.100	7852.75	PROJECTION TO BIT