

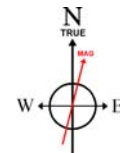
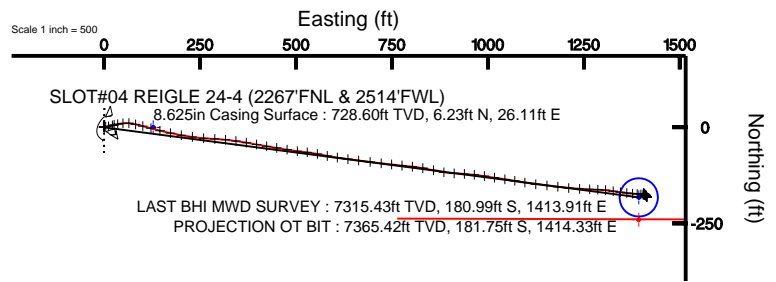
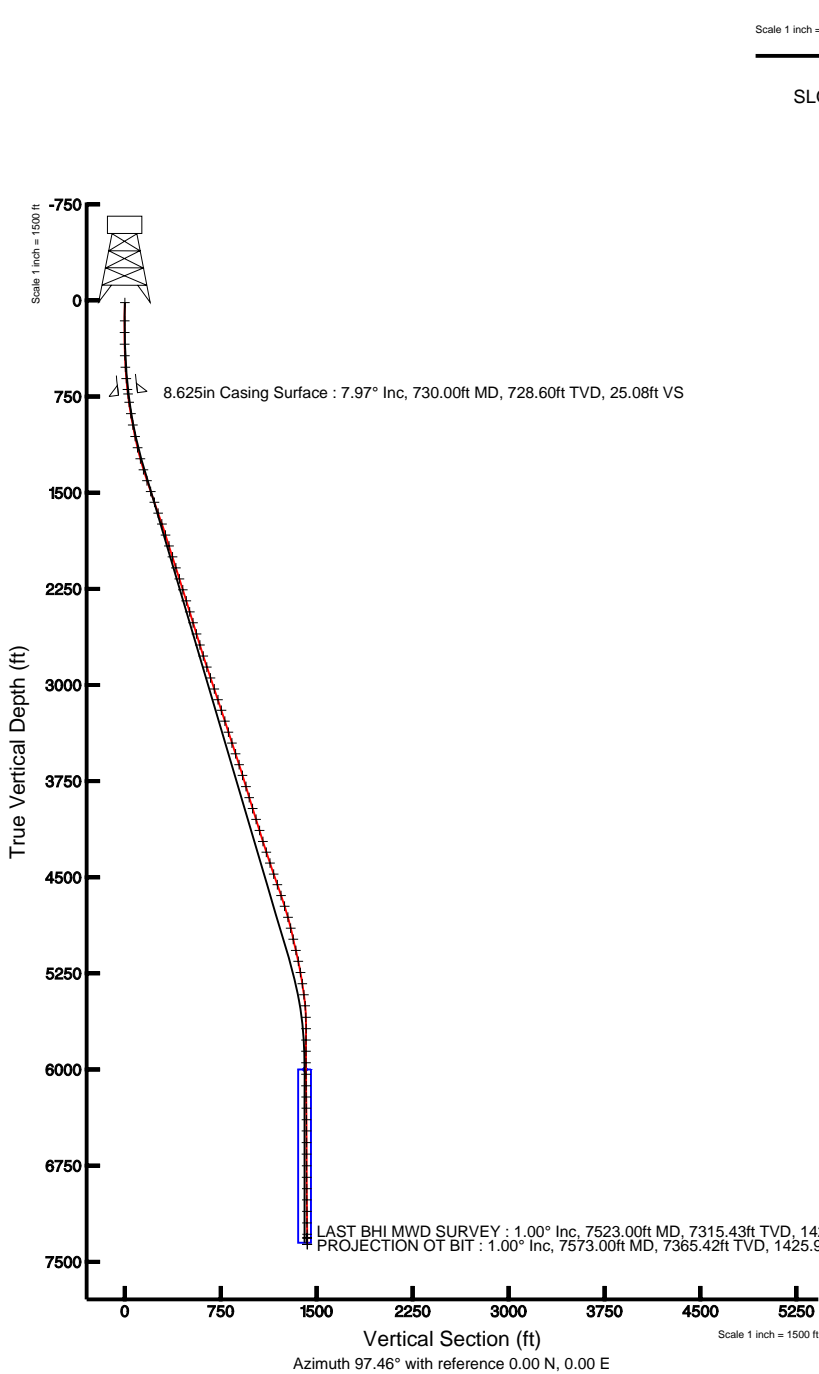


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#04 REIGLE 24-4 (2267'FNL & 2514'FWL)
 Field: WELD COUNTY (KERR MCGEE) Well: REIGLE 24-4
 Facility: SEC.04-T2N-R65W Wellbore: REIGLE 24-4 PWB



Plot reference wellpath is REIGLE 24-4 (REV-A.0) PWB	
True vertical depths are referenced to XTREME 6 (RXB)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 6 (RXB)	North Reference: True north
XTREME 6 (RXB) to Mean Sea Level: 4875 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.04-T2N-R65W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdam on 6/10/2011



BGGM (1945.0 to 2012.0) Dip: 66.89° Field: 53035.1 nT
 Magnetic North is 8.76 degrees East of True North (at 6/9/2011)

To correct azimuth from Magnetic to True add 8.76 degrees



Actual Wellpath Report

REIGLE 24-4 awP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 REIGLE 24-4 (2267'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 24-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 24-4 awb
Facility	SEC.04-T2N-R65W		

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	6/10/2011 at 4:44:03 PM
Convergence at slot	0.54° East	Database/Source file	WA_DENVER/REIGLE_24-4_awb.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-47.72	-0.84	3232187.04	1305291.65	40°10'06.366"N	104°40'08.944"W
Facility Reference Pt			3232187.43	1305339.38	40°10'06.838"N	104°40'08.933"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 6 (RKB) to Facility Vertical Datum	4875.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RKB) to Mean Sea Level	4875.00ft
Vertical Reference Pt	XTREME 6 (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 6 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	97.46°



Actual Wellpath Report

REIGLE 24-4 awP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 REIGLE 24-4 (2267'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 24-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 24-4 awb
Facility	SEC.04-T2N-R65W		

WELLPATH DATA (87 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	294.300	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	294.300	16.00	0.00	0.00	0.00	0.00	
158.00	0.600	294.300	158.00	-0.71	0.31	-0.68	0.42	
249.00	0.700	305.500	248.99	-1.66	0.82	-1.56	0.18	
340.00	0.400	96.700	339.99	-1.83	1.11	-1.70	1.17	
430.00	1.700	90.000	429.97	-0.19	1.07	-0.05	1.45	
520.00	3.700	84.700	519.87	3.96	1.34	4.17	2.24	
609.00	5.900	74.900	608.55	10.99	2.80	11.45	2.63	
695.00	7.800	77.400	693.93	20.55	5.22	21.41	2.24	
796.00	8.300	80.200	793.94	33.95	7.96	35.29	0.63	
885.00	9.600	79.800	881.85	47.16	10.37	48.92	1.46	
975.00	10.400	96.400	970.50	62.44	10.79	64.38	3.31	
1067.00	11.800	104.100	1060.79	80.08	7.57	81.76	2.21	
1157.00	13.300	102.700	1148.63	99.53	3.06	100.78	1.70	
1246.00	14.900	105.500	1234.95	121.06	-2.25	121.80	1.95	
1335.00	17.200	105.800	1320.48	145.41	-8.90	145.49	2.59	
1425.00	19.100	100.900	1406.00	173.28	-15.30	172.76	2.71	
1514.00	19.000	99.900	1490.12	202.29	-20.55	201.33	0.38	
1603.00	18.900	98.100	1574.30	231.18	-25.07	229.87	0.67	
1693.00	19.600	94.900	1659.27	260.84	-28.41	259.34	1.41	
1782.00	18.400	92.800	1743.42	289.75	-30.37	288.25	1.55	
1873.00	17.700	94.600	1829.94	317.88	-32.19	316.38	0.98	
1962.00	18.100	99.500	1914.64	345.21	-35.55	343.51	1.75	
2052.00	17.500	99.200	2000.33	372.71	-40.02	370.65	0.67	
2142.00	17.300	100.900	2086.21	399.59	-44.72	397.15	0.61	
2232.00	17.300	98.800	2172.14	426.33	-49.30	423.52	0.69	
2321.00	17.400	99.500	2257.09	452.86	-53.52	449.72	0.26	
2412.00	17.700	99.500	2343.86	480.28	-58.04	476.78	0.33	
2502.00	17.300	98.100	2429.69	507.34	-62.19	503.52	0.65	
2591.00	16.700	95.300	2514.81	533.35	-65.23	529.36	1.14	
2682.00	17.400	102.700	2601.82	559.97	-69.43	555.65	2.50	
2772.00	16.900	99.500	2687.82	586.44	-74.55	581.68	1.19	
2862.00	17.300	98.800	2773.84	612.89	-78.76	607.81	0.50	
2953.00	18.100	98.100	2860.53	640.55	-82.82	635.18	0.91	
3042.00	19.300	96.300	2944.83	669.08	-86.38	663.49	1.50	
3133.00	19.400	97.800	3030.69	699.23	-90.08	693.41	0.56	
3222.00	18.500	96.700	3114.86	728.13	-93.74	722.08	1.09	
3309.00	17.800	95.700	3197.54	755.23	-96.67	749.02	0.88	
3398.00	17.900	96.400	3282.25	782.50	-99.54	776.14	0.27	
3488.00	17.500	96.000	3367.99	809.86	-102.50	803.35	0.46	
3577.00	18.600	99.100	3452.61	837.42	-106.14	830.67	1.64	
3666.00	18.500	103.700	3536.99	865.65	-111.73	858.41	1.65	
3755.00	17.800	99.500	3621.57	893.28	-117.32	885.54	1.67	
3843.00	17.800	92.100	3705.37	920.12	-120.04	912.25	2.57	
3934.00	16.400	94.100	3792.34	946.79	-121.46	938.97	1.67	



Actual Wellpath Report

REIGLE 24-4 awP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 REIGLE 24-4 (2267'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 24-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 24-4 awb
Facility	SEC.04-T2N-R65W		

WELLPATH DATA (87 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4024.00	17.100	95.300	3878.52	972.70	-123.59	964.82	0.87	
4114.00	17.200	98.500	3964.52	999.23	-126.78	991.15	1.05	
4202.00	18.000	99.900	4048.40	1025.82	-131.04	1017.42	1.03	
4293.00	16.900	98.800	4135.21	1053.09	-135.49	1044.34	1.26	
4383.00	17.100	98.500	4221.28	1079.40	-139.44	1070.35	0.24	
4471.00	18.100	100.900	4305.16	1105.98	-143.94	1096.57	1.40	
4560.00	19.400	97.100	4389.44	1134.56	-148.38	1124.82	2.00	
4651.00	18.400	95.000	4475.53	1164.03	-151.50	1154.13	1.33	
4739.00	19.300	97.400	4558.82	1192.45	-154.59	1182.38	1.35	
4828.00	18.400	96.700	4643.04	1221.20	-158.12	1210.92	1.04	
4916.00	19.100	92.500	4726.37	1249.43	-160.37	1239.10	1.73	
5006.00	15.000	92.500	4812.40	1275.72	-161.52	1265.46	4.56	
5094.00	13.000	91.100	4897.78	1296.90	-162.20	1286.73	2.30	
5183.00	13.000	97.400	4984.51	1316.86	-163.69	1306.67	1.59	
5272.00	13.400	98.100	5071.15	1337.18	-166.43	1326.81	0.48	
5359.00	11.600	97.100	5156.09	1356.01	-168.93	1345.47	2.08	
5448.00	10.600	97.400	5243.42	1373.15	-171.09	1362.47	1.13	
5537.00	8.600	94.200	5331.17	1387.98	-172.63	1377.22	2.32	
5624.00	7.700	93.200	5417.29	1400.29	-173.43	1389.53	1.05	
5711.00	5.100	104.100	5503.75	1409.94	-174.70	1399.10	3.29	
5801.00	2.400	84.000	5593.55	1415.75	-175.48	1404.86	3.29	
5889.00	0.500	307.600	5681.53	1417.21	-175.05	1406.38	3.16	
5978.00	0.700	322.400	5770.52	1416.49	-174.39	1405.74	0.28	
6066.00	0.700	12.300	5858.51	1416.15	-173.43	1405.53	0.67	
6156.00	0.400	20.800	5948.51	1416.27	-172.60	1405.76	0.34	
6245.00	0.400	64.400	6037.51	1416.60	-172.18	1406.15	0.33	
6335.00	0.400	102.300	6127.51	1417.18	-172.11	1406.74	0.29	
6423.00	0.800	129.800	6215.50	1418.00	-172.57	1407.51	0.55	
6510.00	0.900	130.800	6302.49	1419.09	-173.40	1408.50	0.12	
6600.00	1.100	155.100	6392.48	1420.14	-174.65	1409.40	0.52	
6687.00	0.400	164.900	6479.47	1420.70	-175.70	1409.83	0.82	
6778.00	0.100	56.300	6570.47	1420.89	-175.96	1409.97	0.49	
6868.00	0.200	97.100	6660.47	1421.10	-175.94	1410.20	0.16	
6959.00	0.300	143.500	6751.47	1421.43	-176.15	1410.50	0.24	
7049.00	0.400	111.800	6841.47	1421.89	-176.46	1410.93	0.24	
7138.00	0.400	112.500	6930.47	1422.50	-176.69	1411.50	0.01	
7225.00	0.500	139.600	7017.46	1423.07	-177.10	1412.03	0.27	
7315.00	0.800	157.500	7107.46	1423.68	-177.97	1412.52	0.40	
7405.00	0.900	156.100	7197.45	1424.36	-179.20	1413.05	0.11	
7494.00	1.000	153.700	7286.43	1425.15	-180.54	1413.68	0.12	
7523.00	1.000	151.200	7315.43	1425.44	-180.99	1413.91	0.15	LAST BHI MWD SURVEY
7573.00	1.000	151.200	7365.42	1425.96	-181.75	1414.33	0.00	PROJECTION OT BIT



Actual Wellpath Report

REIGLE 24-4 awP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 REIGLE 24-4 (2267'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 24-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 24-4 awb
Facility	SEC.04-T2N-R65W		

HOLE & CASING SECTIONS Ref Wellbore: REIGLE 24-4 awb Ref Wellpath: REIGLE 24-4 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	740.00	724.00	16.00	738.51	0.00	0.00	6.51	27.47
8.625in Casing Surface	16.00	730.00	714.00	16.00	728.60	0.00	0.00	6.23	26.11
7.875in Open Hole	730.00	7573.00	6843.00	728.60	7365.42	6.23	26.11	-181.75	1414.33

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
REIGLE 24-4 GEO TARGET 50' RADIUS (2450'FNL & 1380'FEL, REV-1)		6000.00	-182.47	1393.47	3233582.10	1305122.25	40°10'04.562"N	104°39'50.994"W	circle
REIGLE 24-4 HARDLINE 58'S OF GEO TARGET		6000.00	-240.47	1393.47	3233582.64	1305064.26	40°10'03.989"N	104°39'50.994"W	point
REIGLE 24-4 HARDLINES 128'E OF SHL		6000.00	0.00	128.00	3232315.03	1305292.85	40°10'06.366"N	104°40'07.295"W	point

WELLPATH COMPOSITION Ref Wellbore: REIGLE 24-4 awb Ref Wellpath: REIGLE 24-4 awP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	695.00	NaviTrak (Standard)	BHI NAVITRAK 12.25 HOLE <158-695>	REIGLE 24-4 awb
695.00	7523.00	NaviTrak (Standard)	BHI NAVITRAK 7.875 HOLE <796-7523>	REIGLE 24-4 awb
7523.00	7573.00	Blind Drilling (std)	Projection to bit	REIGLE 24-4 awb



Actual Wellpath Report

REIGLE 24-4 awP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 REIGLE 24-4 (2267'FNL & 2514'FWL)
Area	COLORADO	Well	REIGLE 24-4
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REIGLE 24-4 awb
Facility	SEC.04-T2N-R65W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7523.00	1.000	151.200	7315.43	LAST BHI MWD SURVEY
7573.00	1.000	151.200	7365.42	PROJECTION OT BIT