

01837693



INTEQ



KerrMcGee

KERR MUGLE



Location: COLORADO

Slot: Reynolds 41-23

Field: WELD COUNTY (KERR MCGEE)

Well: Reynolds 41-23

Facility: SEC.24-T3N-R68W

Wellbore: Reynolds 41-23 PWB

Plot reference wellpath is Reynolds 41-23 PWP

True vertical depths are referenced to Ensign 5 (RT)

Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet

Measured depths are referenced to Ensign 5 (RT)

North Reference: T	
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Ensign 5 (RT) to Mean Sea Level: 4954 feet

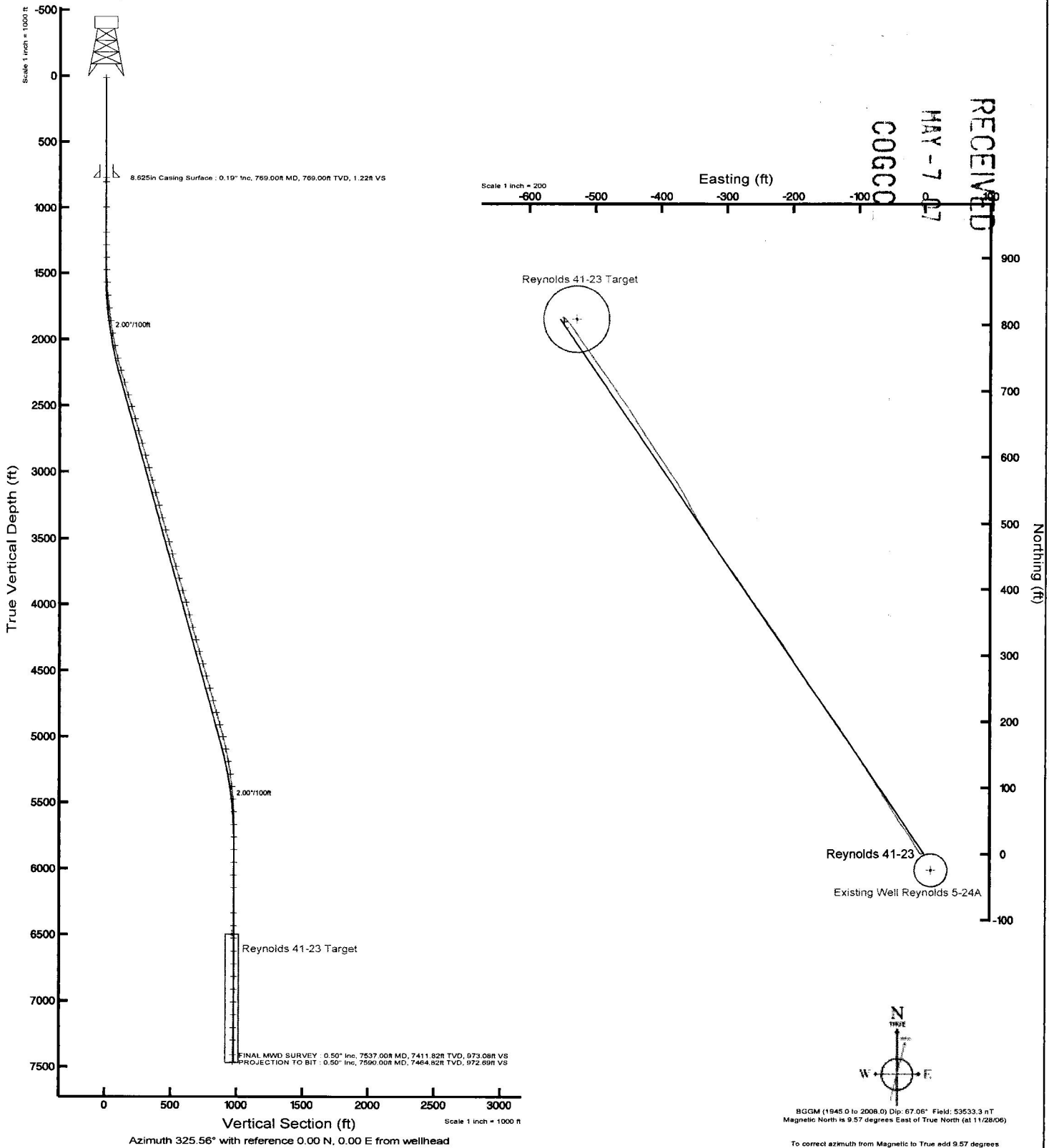
Scale: True distance
Distance in feet

Coordinates are in feet referenced to Slat

Created by: lthomsuzc on 12/7/2006

ENSIGN

United States Drilling



BGGM (1945.0 to 2008.0) Dip: 67.06° Field: 53533.3 nT
Magnetic North is 9.57 degrees East of True North (at 11/28/06)

To correct azimuth from Magnetic to True add 9.57 degrees



123-24356 RECEIVED
Actual Wellpath Report
 Reynolds 41-23 AWP MAY -7 07
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE	Slot	Reynolds 41-23
Area	COLORADO	Well	Reynolds 41-23
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Reynolds 41-23 AWP
Facility	SEC.24-T3N-R68W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect™ 1.2
North Reference	True	User	Thomsuzc
Scale	0.999957	Report Generated	12/07/06 at 08:02:44
Wellbore last revised	12/07/06	Database/Source file	WA_Denver/Reynold

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North [feet]	East [feet]	Easting [US feet]	Northing [US feet]	Latitude [°]	Longitude [°]
Slot Location	-575.39	-3175.54	3151055.13	1320920.69	40 12 47.016N	104 57 32.832W
Facility Reference Pt			3154226.88	1321515.82	40 12 52.704N	104 56 51.900W
Field Reference Pt			3197771.84	1268891.29	40 04 09.600N	104 47 36.000W

WELLPATH DATUM			
Calculation method	Minimum curvature	Ensign 5 (RT) to Facility Vertical Datum	4954.00 feet
Horizontal Reference Pt	Slot	Ensign 5 (RT) to Mean Sea Level	4954.00 feet
Vertical Reference Pt	Ensign 5 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Ensign 5 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	325.56°



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	Reynolds 41-23
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Reynolds 41-23 AWP
Facility	SEC.24-T3N-R68W		

WELLPATH DATA (71 stations) † = interpolated/extrapolated station

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
0.00†	0.000	0.000	0.00	0.00	0.00	0.00	0.00
14.00	0.000	0.000	14.00	0.00	0.00	0.00	0.00
804.00	0.200	311.100	804.00	1.34	0.91	-1.04	0.03
997.00	0.400	255.000	997.00	1.89	0.95	-1.94	0.17
1190.00	0.400	228.300	1189.99	2.02	0.33	-3.10	0.10
1285.00	0.600	242.300	1284.99	2.04	-0.12	-3.79	0.25
1382.00	0.700	293.600	1381.98	2.60	-0.12	-4.78	0.59
1477.00	1.500	318.600	1476.96	4.33	1.05	-6.13	0.96
1572.00	3.000	327.000	1571.89	8.05	4.06	-8.31	1.61
1669.00	5.000	328.400	1668.65	14.81	9.79	-11.91	2.06
1765.00	6.900	329.800	1764.13	24.74	18.34	-17.00	1.98
1861.00	7.700	325.300	1859.35	36.92	28.61	-23.56	1.02
1957.00	10.300	322.800	1954.16	51.93	40.74	-32.41	2.74
2053.00	11.600	328.800	2048.41	70.14	55.83	-42.60	1.80
2150.00	13.600	327.400	2143.07	91.28	73.78	-53.80	2.09
2245.00	17.000	328.100	2234.69	116.32	94.99	-67.16	3.58
2341.00	15.900	326.000	2326.76	143.49	117.81	-81.93	1.30
2438.00	17.100	327.700	2419.76	171.03	140.88	-96.98	1.33
2533.00	16.700	326.300	2510.66	198.64	164.04	-112.02	0.60
2629.00	16.100	326.300	2602.76	225.74	186.59	-127.06	0.62
2726.00	15.000	324.900	2696.20	251.74	208.05	-141.74	1.20
2821.00	16.800	323.500	2787.57	277.76	229.14	-156.98	1.94
2917.00	15.200	324.600	2879.84	304.21	250.56	-172.52	1.70
3014.00	15.200	326.000	2973.45	329.64	271.46	-187.00	0.38
3110.00	15.700	329.500	3065.98	355.18	293.09	-200.63	1.10
3206.00	15.500	326.700	3158.45	380.96	315.00	-214.26	0.81
3302.00	15.500	324.200	3250.96	406.61	336.13	-228.81	0.70
3398.00	15.400	325.300	3343.49	432.18	357.01	-243.57	0.32
3493.00	15.200	324.600	3435.12	457.25	377.53	-257.96	0.29
3589.00	15.800	327.000	3527.63	482.90	398.75	-272.37	0.91
3684.00	14.800	324.600	3619.26	507.96	419.49	-286.44	1.25
3780.00	16.300	323.900	3711.75	533.69	440.37	-301.49	1.57
3876.00	16.000	326.000	3803.96	560.38	462.23	-316.82	0.68
3973.00	16.500	327.700	3897.09	587.52	484.95	-331.66	0.71
4068.00	15.100	329.100	3988.49	613.35	506.98	-345.22	1.53
4164.00	14.300	332.300	4081.35	637.61	528.20	-357.16	1.19
4261.00	15.400	329.800	4175.11	662.35	549.94	-369.20	1.31
4357.00	16.000	324.600	4267.54	688.29	571.74	-383.28	1.59
4451.00	16.300	326.300	4357.83	714.43	593.28	-398.10	0.60
4548.00	16.100	326.000	4450.97	741.49	615.75	-413.18	0.22



Actual Wellpath Report

Reynolds 41-23 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE	Slot	Reynolds 41-23
Area	COLORADO	Well	Reynolds 41-23
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Reynolds 41-23 AWP
Facility	SEC.24-T3N-R68W		

WELLPATH DATA (71 stations) † = interpolated/extrapolated station							
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
4643.00	15.700	327.400	4542.34	767.51	637.50	-427.47	0.58
4739.00	15.700	328.800	4634.76	793.46	659.56	-441.20	0.39
4835.00	15.900	324.600	4727.13	819.58	681.39	-455.54	1.21
4931.00	16.000	326.000	4819.44	845.96	703.07	-470.56	0.41
5027.00	15.500	323.900	4911.84	872.01	724.41	-485.51	0.79
5123.00	14.300	324.600	5004.61	896.69	744.44	-499.94	1.26
5219.00	11.700	325.300	5098.14	918.28	762.11	-512.35	2.71
5315.00	9.900	325.300	5192.43	936.27	776.89	-522.59	1.87
5411.00	8.200	326.000	5287.23	951.37	789.36	-531.12	1.77
5506.00	6.400	321.800	5381.46	963.43	799.13	-538.18	1.98
5602.00	4.300	317.500	5477.04	972.33	805.99	-543.92	2.23
5697.00	2.200	309.800	5571.88	977.61	809.79	-547.73	2.25
5793.00	0.300	42.300	5667.86	979.44	811.15	-548.98	2.33
5887.00	0.100	173.800	5761.86	979.43	811.25	-548.80	0.40
5984.00	0.400	201.500	5858.86	979.16	810.85	-548.92	0.32
6080.00	0.500	198.700	5954.85	978.72	810.15	-549.18	0.11
6176.00	0.300	156.000	6050.85	978.23	809.52	-549.21	0.36
6272.00	0.200	177.000	6146.85	977.84	809.12	-549.10	0.14
6464.00	0.100	68.000	6338.85	977.51	808.85	-548.92	0.13
6560.00	0.100	21.200	6434.85	977.54	808.96	-548.82	0.08
6655.00	0.200	290.500	6529.85	977.73	809.10	-548.94	0.24
6752.00	0.200	302.800	6626.85	978.02	809.25	-549.24	0.04
6847.00	0.100	154.100	6721.85	978.09	809.26	-549.34	0.31
6944.00	0.200	137.200	6818.85	977.84	809.06	-549.19	0.11
7040.00	0.300	137.900	6914.85	977.43	808.75	-548.91	0.10
7136.00	0.400	173.900	7010.84	976.88	808.23	-548.71	0.25
7232.00	0.700	160.400	7106.84	976.02	807.35	-548.47	0.34
7328.00	0.800	172.700	7202.83	974.86	806.13	-548.19	0.20
7423.00	0.500	178.300	7297.83	973.92	805.06	-548.10	0.32
7537.00	0.500	178.300	7411.82	973.08	804.06	-548.07	0.00
7590.00†	0.500	178.300	7464.82	972.69	803.60	-548.05	0.00

HOLE & CASING SECTIONS Ref Wellbore: Reynolds 41-23 AWP Ref Wellpath: Reynolds 41-23 AWP									
String/Diameter	Start MD [feet]	End MD [feet]	Interval [feet]	Start TVD [feet]	End TVD [feet]	Start N/S [feet]	Start E/W [feet]	End N/S [feet]	End E/W [feet]
12.25in Open Hole	14.00	769.00	755.00	14.00	769.00	0.00	0.00	0.83	-0.95
8.625in Casing Surface	14.00	769.00	755.00	14.00	769.00	0.00	0.00	0.83	-0.95
7.78in Open Hole	769.00	7590.00	6821.00	769.00	7464.82	0.83	-0.95	803.60	-548.05



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Facility	SEC.24-T3N-R68W		

TARGETS

Name	MD [feet]	TVD [feet]	North [feet]	East [feet]	Grid East [us survey feet]	Grid North [us survey feet]	Latitude [°]	Longitude [°]	Shape
Existing Well Reynolds 5-24A		0.00	-24.86	10.41	3151065.69	1320895.90	40 12 46.770N	104 57 32.698W	circle
Reynolds 41-23 Target		6500.00	808.00	-529.00	3150521.23	1321725.41	40 12 55.001N	104 57 39.651W	circle

WELLPATH COMPOSITION Ref Wellbore: Reynolds 41-23 AWP Ref Wellpath: Reynolds 41-23 AWP

Start MD [feet]	End MD [feet]	Positional Uncertainty Model	Log Name/Comment	Wellbore
14.00	7537.00	NaviTrak (Standard)	BHI MWD <804-7590>	Reynolds 41-23 AWP
7537.00	7590.00	Blind Drilling (std)	Projection to bit	Reynolds 41-23 AWP

WELLPATH COMMENTS

MD [feet]	Inclination [degrees]	Azimuth [degrees]	TVD [feet]	Comment
7537.00	0.500	178.300	7411.82	FINAL MWD SURVEY
7590.00	0.500	178.300	7464.82	PROJECTION TO BIT