



Actual Wellpath Report

Reynolds 22-24 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE	Slot	Reynolds 22-24
Area	COLORADO	Well	Reynolds 22-24
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Reynolds 22-24 AWB
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	12/14/06 at 10:51:24
Wellbore last revised	12/14/06	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	-648.26	-3142.03	3151089.09	1320848.04	40 12 46.296N	104 57 32.400W
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	112.42°

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WELLPATH DATA (74 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
827.00	1.300	253.900	826.93	-7.22	-2.56	-8.86	0.16
923.00	0.900	200.100	922.91	-8.04	-3.57	-10.17	1.10
1020.00	1.000	209.300	1019.90	-8.11	-5.02	-10.84	0.19
1117.00	1.400	163.900	1116.88	-7.47	-6.90	-10.93	1.03
1213.00	1.600	138.600	1212.85	-5.54	-9.03	-9.72	0.71
1308.00	1.500	133.700	1307.82	-3.19	-10.88	-7.94	0.17
1404.00	1.400	128.800	1403.78	-0.89	-12.49	-6.12	0.17
1501.00	2.700	130.200	1500.72	2.42	-14.70	-3.45	1.34
1595.00	3.300	110.100	1594.59	7.23	-17.06	0.78	1.28
1691.00	5.200	114.000	1690.33	14.34	-19.78	7.35	2.00
1788.00	7.100	115.000	1786.76	24.72	-24.10	16.80	1.96
1884.00	9.000	113.600	1881.81	38.16	-29.62	29.06	1.99
1980.00	11.000	116.100	1976.35	54.81	-36.65	44.17	2.13
2076.00	12.900	111.500	2070.27	74.66	-44.61	62.37	2.21
2173.00	15.100	111.900	2164.38	98.13	-53.29	84.16	2.27
2268.00	15.500	111.200	2256.01	123.19	-62.50	107.48	0.46
2365.00	15.400	112.900	2349.51	149.03	-72.20	131.43	0.48
2461.00	15.700	110.800	2442.00	174.76	-81.77	155.31	0.66
2556.00	15.600	109.400	2533.47	200.36	-90.58	179.38	0.41
2652.00	15.400	109.100	2625.98	225.98	-99.04	203.60	0.22
2749.00	15.500	107.300	2719.48	251.75	-107.11	228.14	0.50
2845.00	15.600	108.700	2811.96	277.40	-115.06	252.62	0.40
2940.00	15.900	108.400	2903.40	303.13	-123.26	277.06	0.33
3037.00	14.900	109.800	2996.91	328.85	-131.68	301.41	1.10
3133.00	15.700	112.600	3089.51	354.16	-140.85	325.01	1.13
3229.00	14.900	111.900	3182.11	379.50	-150.45	348.46	0.86
3325.00	14.900	111.900	3274.88	404.18	-159.66	371.36	0.00
3421.00	15.400	108.000	3367.55	429.23	-168.20	394.93	1.18
3516.00	14.600	109.400	3459.31	453.76	-176.07	418.22	0.92
3612.00	14.600	109.800	3552.21	477.93	-184.19	441.02	0.11
3707.00	15.400	109.800	3643.97	502.50	-192.52	464.15	0.84
3803.00	16.200	112.200	3736.34	528.62	-201.90	488.55	1.08
3899.00	15.200	113.300	3828.76	554.60	-211.94	512.51	1.09
3995.00	16.400	112.600	3921.13	580.73	-222.12	536.58	1.27
4091.00	15.300	113.600	4013.48	606.95	-232.40	560.70	1.18
4187.00	14.900	110.500	4106.17	631.95	-241.79	583.86	0.94
4284.00	15.400	112.600	4199.80	657.29	-251.11	607.44	0.77
4380.00	15.500	113.600	4292.33	682.87	-261.15	630.96	0.30

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Facility	SEC.24-T3N-R68W		

WELLPATH DATA (74 stations) † = interpolated/extrapolated station

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [%/100ft]
4475.00	14.900	114.300	4384.00	707.76	-271.25	653.72	0.66
4570.00	14.300	113.600	4475.94	731.70	-280.98	675.61	0.66
4667.00	15.500	109.100	4569.68	756.62	-290.01	698.83	1.72
4762.00	14.600	107.700	4661.42	781.23	-297.81	722.23	1.02
4858.00	15.000	108.700	4754.23	805.68	-305.47	745.53	0.49
4954.00	13.100	108.700	4847.36	828.94	-312.94	767.60	1.98
5050.00	10.300	115.400	4941.36	848.37	-320.11	785.67	3.24
5146.00	8.700	116.800	5036.04	864.18	-327.07	799.90	1.68
5242.00	6.300	109.400	5131.21	876.68	-332.09	811.35	2.69
5339.00	3.300	116.100	5227.86	884.78	-335.09	818.88	3.14
5435.00	3.000	135.800	5323.72	889.85	-338.11	823.11	1.16
5529.00	1.200	89.000	5417.66	893.01	-339.85	825.81	2.50
5625.00	0.200	47.200	5513.65	894.00	-339.72	826.94	1.10
5720.00	0.400	81.600	5608.65	894.36	-339.56	827.39	0.27
5816.00	0.200	142.500	5704.65	894.79	-339.64	827.82	0.36
5911.00	0.200	161.100	5799.65	895.04	-339.93	827.98	0.07
6007.00	0.200	208.600	5895.65	895.13	-340.24	827.95	0.17
6103.00	0.200	207.500	5991.64	895.10	-340.53	827.79	0.00
6199.00	0.300	218.100	6087.64	895.02	-340.88	827.56	0.11
6295.00	0.000	298.900	6183.64	894.95	-341.08	827.41	0.31
6392.00	0.100	13.100	6280.64	894.94	-341.00	827.43	0.10
6488.00	0.200	350.900	6376.64	894.84	-340.75	827.42	0.12
6583.00	0.400	15.900	6471.64	894.71	-340.27	827.48	0.25
6679.00	0.500	14.500	6567.64	894.62	-339.54	827.68	0.10
6775.00	0.500	9.600	6663.63	894.46	-338.72	827.85	0.04
6871.00	0.400	11.300	6759.63	894.31	-337.98	827.99	0.11
6967.00	0.400	19.700	6855.63	894.23	-337.33	828.17	0.06
7061.00	0.400	30.200	6949.63	894.26	-336.74	828.44	0.08
7158.00	0.400	46.400	7046.62	894.44	-336.22	828.86	0.12
7256.00	0.300	31.300	7144.62	894.62	-335.76	829.24	0.14
7350.00	0.400	45.100	7238.62	894.78	-335.32	829.60	0.14
7446.00	0.500	54.200	7334.62	895.13	-334.84	830.18	0.13
7522.00	0.500	50.400	7410.62	895.46	-334.43	830.70	0.04
7575.00†	0.500	50.400	7463.61	895.68	-334.14	831.06	0.00

HOLE & CASING SECTIONS Ref Wellbore: Reynolds 22-24 AWP Ref Wellpath: Reynolds 22-24 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	771.00	757.00	14.00	770.94	0.00	0.00	-2.22	-7.68
8.625in Casing Surface	14.00	771.00	757.00	14.00	770.94	0.00	0.00	-2.22	-7.68
7.78in Open Hole	771.00	7575.00	6804.00	770.94	7463.61	-2.22	-7.68	-334.14	831.06



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Operator	KERR MCGEE	Slot	Reynolds 22-24
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Field	WELD COUNTY (KERR MCGEE)	Wellbore	Reynolds 22-24 AWB
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	48.00	-23.10	3151065.69	1320895.90	40 12 46.770N	104 57 32.698W	circle
Reynolds 22-24 Target		6500.00	-337.00	817.00	3151908.09	1320516.05	40 12 42.966N	104 57 21.869W	circle

WELLPATH COMPOSITION Ref Wellbore: Reynolds 22-24 AWB Ref Wellpath: Reynolds 22-24 AWP

Start MD [feet]	End MD [feet]	Positional Uncertainty Model	Log Name/Comment	Wellbore
14.00	7522.00	NaviTrak (Standard)	BHI MWD <827-7575>	Reynolds 22-24 AWB
7522.00	7575.00	Blind Drilling (std)	Projection to bit	Reynolds 22-24 AWB

WELLPATH COMMENTS

MD [feet]	Inclination [degrees]	Azimuth [degrees]	TVD [feet]	Comment
7522.00	0.500	50.400	7410.62	FINAL MWD SURVEY
7575.00	0.500	50.400	7463.61	PROJECTION TO BIT