

Location:	COLORADO	Slot:	SLOT#07 WIEDEMAN 22-5 (1164'FNL& 1384'FWL)
Field:	WELD COUNTY (KERR MCGEE)	Well:	WIEDEMAN 22-5
Facility:	SEC.05-T5N-R66W	Wellbore:	WIEDEMAN 22-5 PWB



Scale 1 inch = 1500 ft

True Vertical Depth (ft)

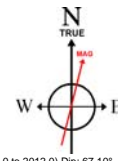
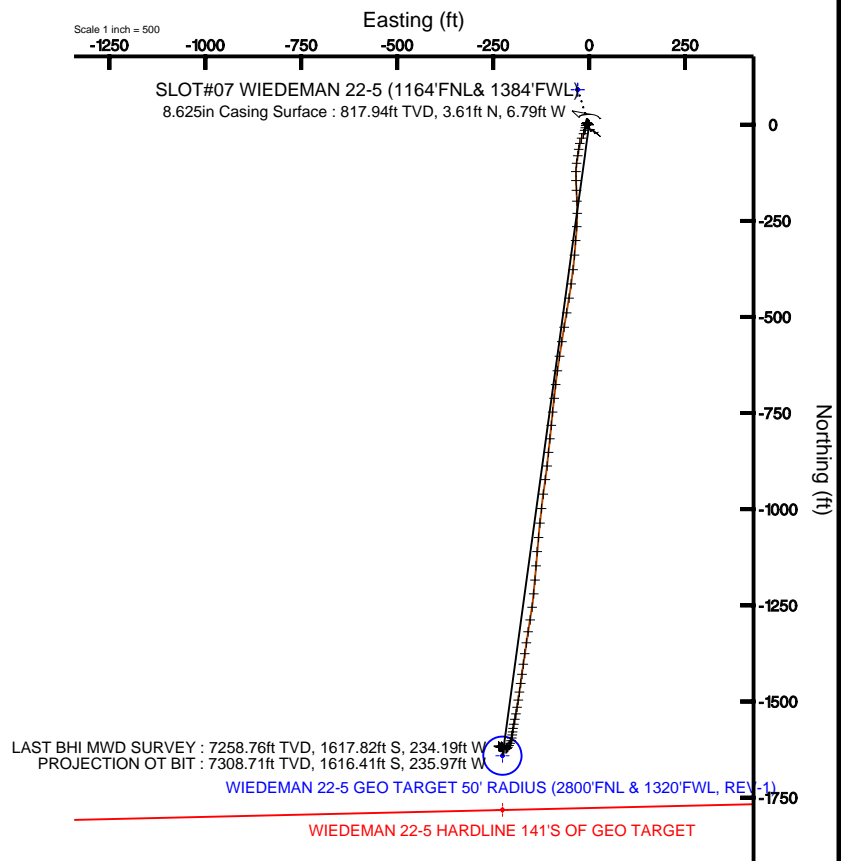
Vertical Section (ft)

8.625in Casing Surface : 1.16° Inc, 818.00ft MD, 817.94ft TVD, -2.65ft VS

LAST BHI MWD SURVEY
PROJECTION OT BIT

LAST BHI MWD SURVEY : 2.60° Inc, 7560.00ft MD, 7258.76ft TVD, 1634.6ft VS
PROJECTION OT BIT : 2.60° Inc, 7610.00ft MD, 7308.71ft TVD, 1633.49ft VS

Scale 1 inch = 1500 ft



BGGM (1945.0 to 2012.0) Dip: 67.10° Field: 53228.9 nT
Magnetic North is 8.93 degrees East of True North (at 11/19/2010)

To correct azimuth from Magnetic to True add 8.93 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = $90 + 8.93 = 98.93$



Actual Wellpath Report

WIEDEMAN 22-5 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 WIEDEMAN 22-5 (1164'FNL& 1384'FWL)
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Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIEDEMAN 22-5 AWB
Facility	SEC.05-T5N-R66W		

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	0.999962	Report Generated	1/14/2011 at 1:59:23 PM
Convergence at slot	0.45° East	Database/Source file	Denver Server/WIEDEMAN_22-5_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-91.44	29.51	3192941.47	1401667.07	40°26'02.069"N	104°48'24.782"W
Facility Reference Pt			3192911.25	1401758.28	40°26'02.972"N	104°48'25.164"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	4769.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RKB) to Mean Sea Level	4769.00ft
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	187.83°



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REFERENCE WELLPATH IDENTIFICATION

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Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIEDEMAN 22-5 AWB
Facility	SEC.05-T5N-R66W		

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	314.100	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	314.100	16.00	0.00	0.00	0.00	0.00	
160.00	0.500	314.100	160.00	-0.37	0.44	-0.45	0.35	
252.00	0.700	316.900	251.99	-0.96	1.13	-1.12	0.22	
344.00	0.900	309.200	343.98	-1.69	1.99	-2.07	0.25	
437.00	0.700	321.500	436.98	-2.47	2.90	-2.99	0.28	
524.00	0.600	308.800	523.97	-3.07	3.60	-3.67	0.20	
615.00	0.800	319.700	614.96	-3.74	4.38	-4.46	0.26	
704.00	0.600	256.400	703.96	-3.98	4.75	-5.31	0.85	
773.00	1.100	229.000	772.95	-3.35	4.23	-6.16	0.91	
846.00	1.200	218.800	845.94	-2.17	3.17	-7.17	0.31	
891.00	1.400	200.900	890.92	-1.23	2.29	-7.66	1.00	
980.00	4.000	190.000	979.82	2.93	-1.78	-8.59	2.96	
1067.00	4.000	190.700	1066.61	9.00	-7.75	-9.68	0.06	
1156.00	5.000	198.100	1155.33	15.91	-14.49	-11.46	1.30	
1245.00	7.100	201.900	1243.83	25.07	-23.28	-14.72	2.40	
1332.00	9.100	203.300	1329.96	36.91	-34.59	-19.44	2.31	
1421.00	9.900	194.900	1417.74	51.29	-48.45	-24.19	1.80	
1511.00	10.300	186.800	1506.35	67.01	-63.91	-27.14	1.64	
1600.00	11.700	189.300	1593.71	83.99	-80.72	-29.54	1.66	
1689.00	13.800	188.600	1680.51	103.63	-100.12	-32.58	2.37	
1778.00	14.600	180.800	1766.80	125.38	-121.84	-34.33	2.33	
1866.00	16.200	177.700	1851.64	148.47	-145.19	-33.99	2.04	
1953.00	17.500	177.000	1934.90	173.27	-170.38	-32.82	1.51	
2043.00	19.500	178.000	2020.25	201.36	-198.91	-31.59	2.25	
2133.00	21.700	179.100	2104.49	232.61	-230.56	-30.80	2.48	
2222.00	23.900	184.700	2186.54	266.88	-264.99	-32.02	3.47	
2309.00	25.200	185.100	2265.67	302.98	-301.01	-35.11	1.51	
2398.00	25.400	184.000	2346.14	340.95	-338.92	-38.12	0.57	
2487.00	25.400	187.200	2426.54	379.09	-376.90	-41.85	1.54	
2574.00	25.400	187.900	2505.13	416.40	-413.89	-46.75	0.35	
2661.00	25.500	188.600	2583.69	453.79	-450.89	-52.12	0.36	
2750.00	26.200	190.000	2663.78	492.58	-489.18	-58.39	1.04	
2837.00	25.800	189.600	2741.98	530.69	-526.77	-64.89	0.50	
2925.00	25.300	189.300	2821.37	568.63	-564.20	-71.12	0.59	
3014.00	25.700	188.300	2901.70	606.94	-602.07	-76.98	0.66	
3104.00	24.600	188.200	2983.17	645.19	-639.92	-82.47	1.22	
3193.00	23.400	186.800	3064.47	681.38	-675.81	-87.20	1.49	
3282.00	24.400	185.800	3145.84	717.43	-711.64	-91.15	1.21	
3371.00	23.100	186.500	3227.30	753.25	-747.28	-94.99	1.49	
3459.00	23.200	185.400	3308.22	787.83	-781.69	-98.57	0.50	
3548.00	23.700	186.100	3389.87	823.22	-816.93	-102.12	0.64	
3638.00	22.900	185.600	3472.53	858.80	-852.34	-105.75	0.92	
3729.00	22.900	186.100	3556.35	894.19	-887.57	-109.36	0.21	
3818.00	24.600	188.900	3637.82	930.02	-923.09	-114.07	2.29	



Actual Wellpath Report

WIEDEMAN 22-5 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 WIEDEMAN 22-5 (1164'FNL& 1384'FWL)
Area	COLORADO	Well	WIEDEMAN 22-5
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIEDEMAN 22-5 AWB
Facility	SEC.05-T5N-R66W		

WELLPATH DATA (88 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3909.00	25.200	187.200	3720.36	968.33	-961.02	-119.43	1.03	
3997.00	25.500	186.800	3799.88	1006.01	-998.42	-124.02	0.39	
4085.00	25.500	185.500	3879.31	1043.87	-1036.08	-128.08	0.64	
4174.00	24.900	186.100	3959.84	1081.74	-1073.78	-131.90	0.73	
4263.00	23.800	184.700	4040.92	1118.40	-1110.31	-135.37	1.40	
4353.00	24.800	184.400	4122.95	1155.38	-1147.23	-138.30	1.12	
4443.00	24.100	184.100	4204.88	1192.56	-1184.38	-141.06	0.79	
4532.00	23.600	186.100	4286.28	1228.50	-1220.22	-144.26	1.07	
4621.00	22.700	187.500	4368.11	1263.48	-1254.96	-148.39	1.19	
4710.00	21.400	190.300	4450.60	1296.87	-1287.97	-153.54	1.88	
4799.00	20.000	189.600	4533.86	1328.31	-1318.95	-158.98	1.60	
4886.00	19.100	188.600	4615.84	1357.41	-1347.69	-163.59	1.10	
4975.00	18.200	188.200	4700.16	1385.87	-1375.85	-167.75	1.02	
5065.00	17.500	187.500	4785.83	1413.46	-1403.18	-171.52	0.81	
5156.00	16.600	187.200	4872.83	1440.14	-1429.64	-174.93	0.99	
5243.00	15.400	188.600	4956.46	1464.12	-1453.39	-178.22	1.45	
5332.00	14.200	188.200	5042.51	1486.85	-1475.88	-181.54	1.35	
5421.00	12.900	188.600	5129.03	1507.70	-1496.51	-184.59	1.46	
5511.00	11.600	189.600	5216.98	1526.79	-1515.36	-187.60	1.46	
5602.00	10.100	190.700	5306.35	1543.91	-1532.23	-190.60	1.66	
5690.00	9.000	192.100	5393.13	1558.48	-1546.54	-193.48	1.28	
5781.00	7.700	191.000	5483.16	1571.66	-1559.48	-196.14	1.44	
5871.00	6.400	189.600	5572.48	1582.70	-1570.35	-198.12	1.46	
5960.00	5.200	186.800	5661.02	1591.69	-1579.24	-199.43	1.38	
6051.00	5.300	187.500	5751.64	1600.01	-1587.51	-200.46	0.13	
6138.00	4.800	189.600	5838.30	1607.67	-1595.08	-201.60	0.61	
6225.00	4.800	197.000	5925.00	1614.90	-1602.15	-203.27	0.71	
6314.00	4.700	203.000	6013.69	1622.10	-1609.07	-205.78	0.57	
6401.00	3.700	210.700	6100.46	1628.13	-1614.76	-208.61	1.32	
6491.00	2.900	213.200	6190.31	1632.86	-1619.16	-211.34	0.90	
6581.00	2.100	228.700	6280.22	1636.16	-1622.16	-213.82	1.16	
6672.00	1.900	258.900	6371.17	1637.91	-1623.55	-216.55	1.16	
6761.00	2.200	284.200	6460.11	1638.20	-1623.41	-219.66	1.06	
6851.00	2.500	298.900	6550.04	1637.31	-1622.04	-223.05	0.75	
6941.00	2.800	320.800	6639.94	1635.10	-1619.39	-226.16	1.17	
7029.00	1.100	324.600	6727.89	1633.02	-1617.03	-228.01	1.94	
7119.00	1.300	152.000	6817.88	1633.22	-1617.23	-228.03	2.66	
7208.00	0.800	150.300	6906.87	1634.53	-1618.66	-227.25	0.56	
7297.00	1.100	260.300	6995.86	1635.28	-1619.35	-227.78	1.76	
7386.00	1.200	264.200	7084.84	1635.76	-1619.58	-229.55	0.14	
7473.00	1.500	286.000	7171.82	1635.81	-1619.36	-231.55	0.68	
7560.00	2.600	308.500	7258.76	1634.64	-1617.82	-234.19	1.54	LAST BHI MWD SURVEY
7610.00	2.600	308.500	7308.71	1633.49	-1616.41	-235.97	0.00	PROJECTION OT BIT



Actual Wellpath Report

WIEDEMAN 22-5 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 WIEDEMAN 22-5 (1164'FNL& 1384'FWL)
Area	COLORADO	Well	WIEDEMAN 22-5
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIEDEMAN 22-5 AWB
Facility	SEC.05-T5N-R66W		

HOLE & CASING SECTIONS Ref Wellbore: WIEDEMAN 22-5 AWB Ref Wellpath: WIEDEMAN 22-5 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	828.00	812.00	16.00	827.94	0.00	0.00	3.46	-6.93
8.625in Casing Surface	16.00	818.00	802.00	16.00	817.94	0.00	0.00	3.61	-6.79
7.875in Open Hole	818.00	7610.00	6792.00	817.94	7308.71	3.61	-6.79	-1616.41	-235.97

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
WIEDEMAN 18-5 PAD QUARTER SECTION LINES		1.00	91.44	-29.51	3192911.25	1401758.28	40°26'02.972"N	104°48'25.164"W	polygon
WIEDEMAN 18-5 PAD SECTION LINES		1.00	91.44	-29.51	3192911.25	1401758.28	40°26'02.972"N	104°48'25.164"W	polygon
WIEDEMAN 22-5 GEO TARGET 50' RADIUS (2800'FNL & 1320'FWL, REV-1)		6000.00	-1641.23	-225.78	3192728.53	1400024.19	40°25'45.851"N	104°48'27.702"W	circle
WIEDEMAN 22-5 HARDLINE 141'S OF GEO TARGET		6000.00	-1782.23	-225.78	3192729.63	1399883.20	40°25'44.458"N	104°48'27.702"W	point

WELLPATH COMPOSITION Ref Wellbore: WIEDEMAN 22-5 AWB Ref Wellpath: WIEDEMAN 22-5 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	773.00	NaviTrak (Standard)	BHI MWD SURVEYS 12.25 HOLE<160-773>	WIEDEMAN 22-5 AWB
773.00	7560.00	NaviTrak (Standard)	BHI MWD SURVEYS 7.875 HOLE <846-7560>	WIEDEMAN 22-5 AWB
7560.00	7610.00	Blind Drilling (std)	Projection to bit	WIEDEMAN 22-5 AWB



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Facility	SEC.05-T5N-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7560.00	2.600	308.500	7258.76	LAST BHI MWD SURVEY
7610.00	2.600	308.500	7308.71	PROJECTION OT BIT