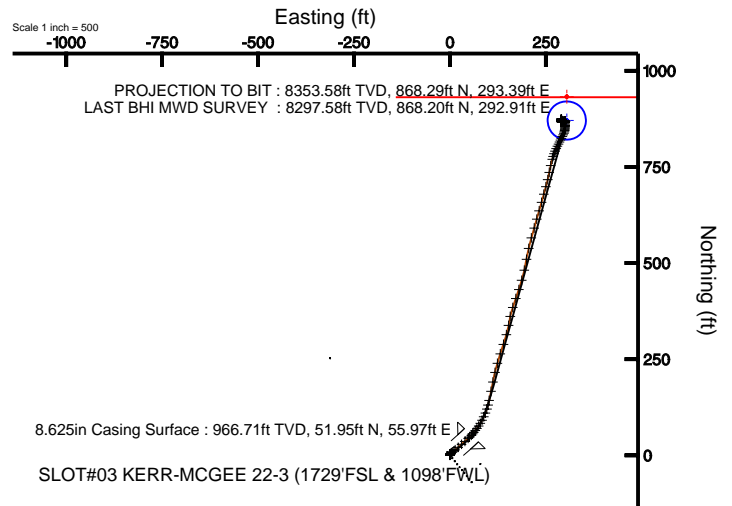
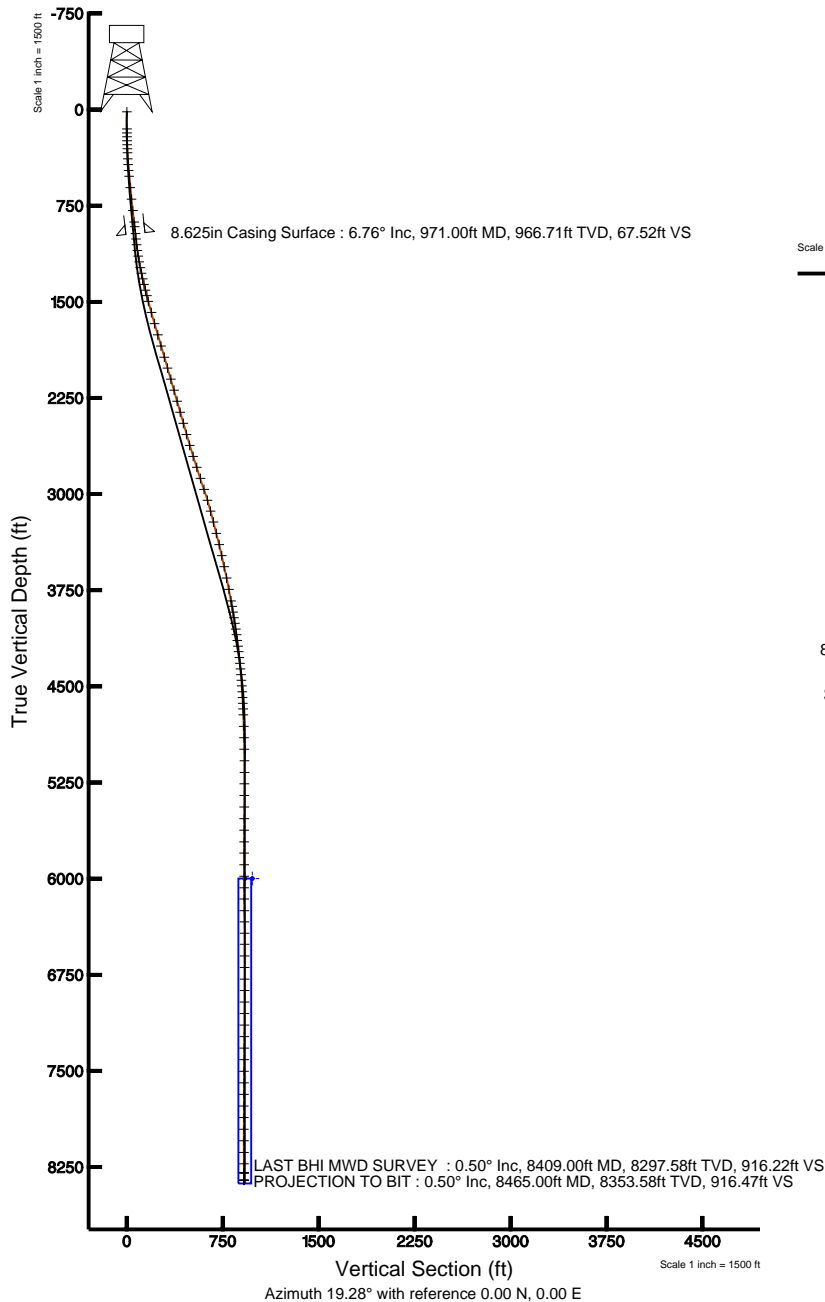


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#03 KERR-MCGEE 22-3 (1729'FSL & 1098'FWL)
 Field: WELD COUNTY (KERR MCGEE) Well: KERR-MCGEE 22-3
 Facility: SEC.03-T1N-R68W Wellbore: KERR-MCGEE 22-3 PWB



Plot reference wellpath is KERR-MCGEE 22-3 (REV-B.0) PWB	
True vertical depths are referenced to XTREME 8 (RT)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 8 (RT)	North Reference: True north
XTREME 8 (RT) to Mean Sea Level: 5059 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.03-T1N-R68W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cockdarm on 7/27/2010



BGGM (1945.0 to 2012.0) Dip: 66.80° Field: 53064.1 nT
 Magnetic North is 9.06 degrees East of True North (at 6/25/2010)

To correct azimuth from Magnetic to True add 9.06 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 9.06 = 99.06



Actual Wellpath Report

KERR-MCGEE 22-3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 KERR-MCGEE 22-3 (1729'FSL & 1098'FWL)
Area	COLORADO	Well	KERR-MCGEE 22-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 22-3 AWB
Facility	SEC.03-T1N-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	7/27/2010 at 4:58:15 PM
Convergence at slot	0.33° East	Database/Source file	Denver Server/KERR-MCGEE_22-3_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	22.95	-79.48	3141311.54	1271579.99	40°04'39.983"N	104°59'42.050"W
Facility Reference Pt			3141391.14	1271557.49	40°04'39.756"N	104°59'41.028"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 8 (RT) to Facility Vertical Datum	5059.00ft
Horizontal Reference Pt	Slot	XTREME 8 (RT) to Mean Sea Level	5059.00ft
Vertical Reference Pt	XTREME 8 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 8 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	19.28°



Actual Wellpath Report

KERR-MCGEE 22-3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 KERR-MCGEE 22-3 (1729'FSL & 1098'FWL)
Area	COLORADO	Well	KERR-MCGEE 22-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 22-3 AWB
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (118 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	356.400	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	356.400	17.00	0.00	0.00	0.00	0.00	
150.00	0.700	356.400	150.00	0.75	0.81	-0.05	0.53	
181.00	0.700	358.900	180.99	1.10	1.19	-0.07	0.10	
212.00	1.100	6.600	211.99	1.57	1.67	-0.04	1.35	
243.00	1.400	21.400	242.98	2.24	2.32	0.14	1.41	
274.00	1.700	35.800	273.97	3.06	3.05	0.54	1.58	
305.00	2.100	45.300	304.95	4.01	3.82	1.22	1.64	
336.00	2.900	45.600	335.93	5.22	4.77	2.18	2.58	
384.00	3.800	50.600	383.84	7.67	6.63	4.28	1.97	
429.00	4.800	53.400	428.72	10.50	8.70	6.94	2.27	
475.00	5.600	51.300	474.53	14.00	11.25	10.24	1.79	
520.00	6.000	52.000	519.30	17.84	14.07	13.80	0.90	
610.00	7.200	48.800	608.70	26.70	20.68	21.75	1.39	
700.00	7.700	47.700	697.94	36.91	28.45	30.46	0.58	
790.00	7.000	48.100	787.20	47.02	36.17	39.00	0.78	
881.00	7.700	48.100	877.45	57.22	43.95	47.66	0.77	
917.00	7.600	46.300	913.13	61.46	47.20	51.18	0.72	
1014.00	6.100	41.800	1009.43	71.93	55.48	59.25	1.64	
1059.00	7.100	36.100	1054.14	76.80	59.51	62.49	2.65	
1104.00	8.300	39.300	1098.73	82.52	64.27	66.18	2.83	
1149.00	9.400	37.900	1143.19	89.05	69.68	70.50	2.49	
1194.00	10.100	33.000	1187.54	96.37	75.89	74.90	2.41	
1240.00	11.100	29.500	1232.76	104.64	83.13	79.28	2.58	
1285.00	12.300	28.100	1276.82	113.64	91.13	83.67	2.74	
1330.00	13.200	26.700	1320.71	123.48	99.94	88.24	2.11	
1375.00	13.900	22.800	1364.46	133.97	109.52	92.64	2.56	
1421.00	14.200	17.500	1409.09	145.12	119.99	96.48	2.87	
1465.00	15.000	14.000	1451.67	156.19	130.66	99.48	2.71	
1511.00	15.400	11.900	1496.06	168.17	142.42	102.18	1.48	
1601.00	15.900	12.200	1582.72	192.26	166.16	107.25	0.56	
1691.00	16.200	10.500	1669.21	216.90	190.55	112.14	0.62	
1783.00	15.900	14.000	1757.63	242.13	215.40	117.53	1.10	
1873.00	15.900	15.100	1844.19	266.70	239.27	123.72	0.33	
1964.00	17.000	19.300	1931.46	292.44	263.86	131.37	1.78	
2053.00	16.900	17.200	2016.60	318.38	288.49	139.49	0.70	
2143.00	16.900	16.800	2102.71	344.52	313.51	147.14	0.13	
2233.00	15.400	9.400	2189.17	369.36	337.83	152.88	2.83	
2322.00	15.600	12.200	2274.93	392.88	361.19	157.34	0.87	
2412.00	15.600	18.900	2361.62	416.99	384.47	163.81	2.00	
2502.00	16.100	18.600	2448.20	441.57	407.74	171.71	0.56	
2592.00	15.800	18.600	2534.74	466.30	431.18	179.60	0.33	
2681.00	16.900	16.100	2620.14	491.34	455.10	187.05	1.47	
2771.00	18.500	12.900	2705.87	518.59	481.59	193.87	2.08	
2861.00	18.700	10.500	2791.17	547.04	509.69	199.69	0.88	



Actual Wellpath Report

KERR-MCGEE 22-3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 KERR-MCGEE 22-3 (1729'FSL & 1098'FWL)
Area	COLORADO	Well	KERR-MCGEE 22-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 22-3 AWB
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (118 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2952.00	18.300	12.200	2877.47	575.63	538.00	205.37	0.74	
3042.00	18.500	15.800	2962.87	603.91	565.55	212.24	1.28	
3131.00	16.400	16.800	3047.77	630.56	591.17	219.72	2.38	
3220.00	14.900	15.750	3133.47	654.53	614.21	226.45	1.72	
3308.00	14.800	15.400	3218.53	677.04	635.93	232.51	0.15	
3399.00	14.400	16.800	3306.59	699.94	657.97	238.87	0.59	
3489.00	14.000	14.700	3393.85	721.97	679.22	244.86	0.72	
3578.00	12.300	16.100	3480.51	742.17	698.74	250.23	1.94	
3666.00	12.600	13.300	3566.44	761.08	717.08	255.03	0.77	
3757.00	12.000	10.500	3655.35	780.30	736.05	259.04	0.93	
3847.00	11.100	12.200	3743.53	798.14	753.71	262.58	1.07	
3938.00	10.400	16.800	3832.93	815.04	770.14	266.80	1.22	
3982.00	9.800	18.200	3876.25	822.75	777.50	269.12	1.47	
4027.00	9.400	20.300	3920.62	830.26	784.58	271.59	1.18	
4072.00	9.400	22.100	3965.02	837.60	791.43	274.25	0.65	
4116.00	9.100	26.700	4008.44	844.64	797.87	277.16	1.81	
4161.00	8.400	26.700	4052.92	851.43	803.99	280.24	1.56	
4206.00	7.700	25.600	4097.48	857.68	809.64	283.02	1.59	
4251.00	7.300	25.900	4142.09	863.52	814.93	285.57	0.89	
4296.00	7.200	25.900	4186.73	869.16	820.04	288.05	0.22	
4339.00	6.800	28.400	4229.41	874.35	824.71	290.44	1.17	
4385.00	6.500	27.700	4275.10	879.62	829.41	292.94	0.68	
4430.00	6.000	25.600	4319.83	884.47	833.78	295.14	1.22	
4474.00	5.600	24.900	4363.61	888.90	837.80	297.04	0.92	
4519.00	4.900	14.000	4408.42	892.99	841.66	298.43	2.70	
4563.00	4.000	8.700	4452.29	896.37	845.00	299.12	2.25	
4607.00	3.700	6.300	4496.19	899.27	847.93	299.51	0.77	
4653.00	3.600	2.400	4542.10	902.09	850.85	299.73	0.58	
4698.00	3.300	0.300	4587.01	904.67	853.55	299.79	0.72	
4743.00	2.900	3.500	4631.95	906.99	855.99	299.87	0.97	
4787.00	2.600	4.500	4675.90	909.03	858.09	300.02	0.69	
4833.00	2.600	355.700	4721.85	910.99	860.17	300.02	0.87	
4923.00	1.800	353.600	4811.78	914.14	863.61	299.71	0.89	
5012.00	1.300	20.700	4900.75	916.41	865.95	299.91	0.98	
5102.00	1.000	16.800	4990.73	918.21	867.65	300.50	0.34	
5192.00	1.100	11.500	5080.72	919.85	869.25	300.90	0.15	
5283.00	0.600	213.300	5171.71	920.25	869.71	300.81	1.84	
5372.00	0.600	211.900	5260.71	919.35	868.92	300.31	0.02	
5463.00	0.400	238.300	5351.71	918.64	868.35	299.79	0.33	
5553.00	0.400	258.300	5441.70	918.23	868.12	299.21	0.15	
5644.00	0.700	269.600	5532.70	917.88	868.05	298.34	0.35	
5734.00	0.700	278.000	5622.69	917.59	868.13	297.25	0.11	
5825.00	0.700	285.800	5713.69	917.44	868.36	296.17	0.10	
5913.00	0.600	298.400	5801.68	917.48	868.72	295.24	0.20	
6004.00	0.800	288.900	5892.67	917.56	869.15	294.22	0.25	



Actual Wellpath Report

KERR-MCGEE 22-3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 KERR-MCGEE 22-3 (1729'FSL & 1098'FWL)
Area	COLORADO	Well	KERR-MCGEE 22-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 22-3 AWB
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (118 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
6093.00	0.600	290.300	5981.67	917.56	869.52	293.20	0.23	
6183.00	0.300	271.700	6071.66	917.50	869.69	292.52	0.37	
6271.00	0.700	321.300	6159.66	917.71	870.11	291.95	0.63	
6362.00	1.300	321.600	6250.65	918.56	871.36	290.96	0.66	
6449.00	1.100	346.600	6337.63	919.79	872.94	290.16	0.64	
6538.00	0.400	10.500	6426.62	920.82	874.08	290.02	0.84	
6624.00	0.200	53.000	6512.62	921.24	874.46	290.19	0.33	
6715.00	0.100	177.800	6603.62	921.30	874.48	290.32	0.30	
6805.00	0.300	85.700	6693.62	921.32	874.42	290.56	0.36	
6896.00	0.200	164.800	6784.62	921.28	874.28	290.84	0.36	
6985.00	0.200	169.700	6873.62	921.02	873.98	290.91	0.02	
7075.00	0.400	174.700	6963.62	920.60	873.51	290.96	0.22	
7165.00	0.400	202.400	7053.61	920.00	872.91	290.87	0.21	
7255.00	0.400	213.700	7143.61	919.38	872.36	290.58	0.09	
7345.00	0.500	210.500	7233.61	918.69	871.76	290.21	0.11	
7434.00	0.700	208.800	7322.60	917.77	870.95	289.75	0.23	
7525.00	0.600	194.000	7413.60	916.75	870.00	289.36	0.21	
7615.00	0.400	145.800	7503.59	916.09	869.28	289.43	0.50	
7706.00	0.400	149.300	7594.59	915.70	868.75	289.77	0.03	
7796.00	0.400	137.700	7684.59	915.35	868.24	290.14	0.09	
7886.00	0.200	117.000	7774.59	915.18	867.94	290.49	0.25	
7977.00	0.300	107.900	7865.59	915.16	867.79	290.86	0.12	
8068.00	0.200	103.600	7956.59	915.18	867.68	291.24	0.11	
8158.00	0.500	94.500	8046.59	915.30	867.62	291.78	0.34	
8248.00	0.400	74.800	8136.58	915.58	867.67	292.48	0.20	
8337.00	0.300	335.000	8225.58	915.92	867.96	292.68	0.61	
8409.00	0.500	78.300	8297.58	916.22	868.20	292.91	0.89	LAST BHI MWD SURVEY
8465.00	0.500	78.300	8353.58	916.47	868.29	293.39	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: KERR-MCGEE 22-3 AWB Ref Wellpath: KERR-MCGEE 22-3 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	17.00	971.00	954.00	17.00	966.71	0.00	0.00	51.95	55.97
8.625in Casing Surface	17.00	971.00	954.00	17.00	966.71	0.00	0.00	51.95	55.97
7.875in Open Hole	971.00	8465.00	7494.00	966.71	8353.58	51.95	55.97	868.29	293.39



Actual Wellpath Report

KERR-MCGEE 22-3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 KERR-MCGEE 22-3 (1729'FSL & 1098'FWL)
Area	COLORADO	Well	KERR-MCGEE 22-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 22-3 AWB
Facility	SEC.03-T1N-R68W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
KERR-MCGEE 22-3 GEO TARGET 50' RADIUS (2600'FSL & 1400'FWL, REV- 1)		6000.00	871.02	304.74	3141611.30	1272452.70	40°04'48.590"N	104°59'38.130"W	circle
KERR-MCGEE 22-3 HARDLINE 62'N OF GEO TARGET		6000.00	933.02	304.74	3141610.95	1272514.69	40°04'49.203"N	104°59'38.130"W	point

WELLPATH COMPOSITION						Ref Wellbore: KERR-MCGEE 22-3 AWB	Ref Wellpath: KERR-MCGEE 22-3 AWP
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment			Wellbore	
17.00	917.00	NaviTrak (Standard)	SURFACE BHI MWD 12.25 HOLE <150-917>			KERR-MCGEE 22-3 AWB	
917.00	8409.00	NaviTrak (Standard)	PRODUCTION BHI MWD SURVEY 7.875 HOLE <1014-8409>			KERR-MCGEE 22-3 AWB	
8409.00	8465.00	Blind Drilling (std)	Projection to bit			KERR-MCGEE 22-3 AWB	



Actual Wellpath Report

KERR-MCGEE 22-3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 KERR-MCGEE 22-3 (1729'FSL & 1098'FWL)
Area	COLORADO	Well	KERR-MCGEE 22-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 22-3 AWB
Facility	SEC.03-T1N-R68W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8409.00	0.500	78.300	8297.58	LAST BHI MWD SURVEY
8465.00	0.500	78.300	8353.58	PROJECTION TO BIT