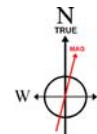
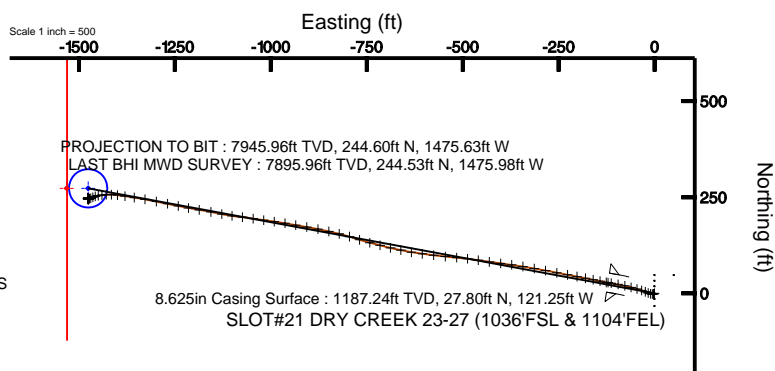
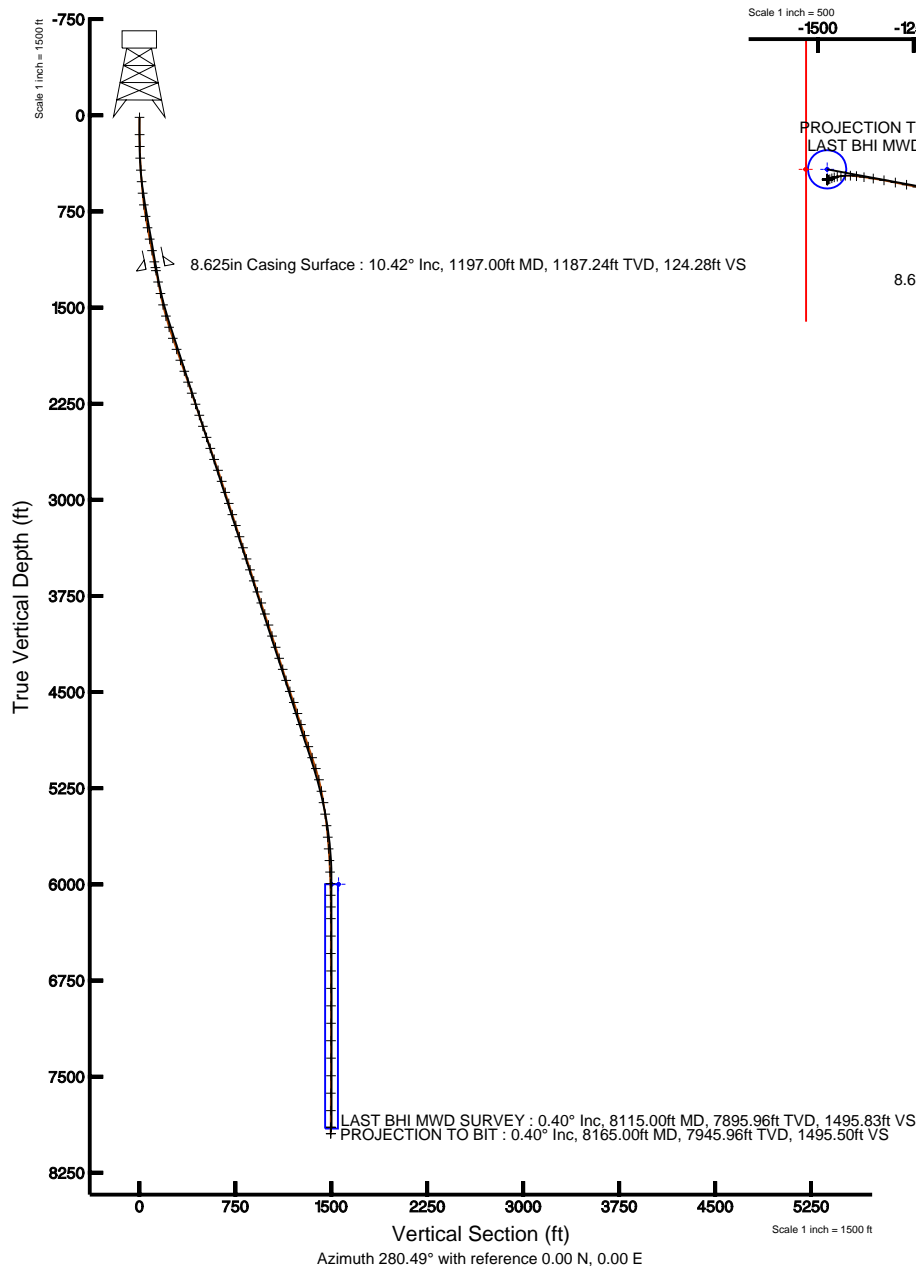


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#21 DRY CREEK 23-27 (1036'FSL & 1104'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: DRY CREEK 23-27
 Facility: SEC.27-T1N-R67W Wellbore: DRY CREEK 23-27 PWB



Plot reference wellpath is DRY CREEK 23-27 (REV-A-0) PWP	
True vertical depths are referenced to XTREME 12 (RKB)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 12 (RKB)	North Reference: True north
XTREME 12 (RKB) to Mean Sea Level: 5059 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.27-T1N-R67W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdamm on 12/29/2010



BGGM (1945.0 to 2012.0) Dip: 66.76° Field: 53002 nT
 Magnetic North is 8.94 degrees East of True North (at 11/18/2010)

To correct azimuth from Magnetic to True add 8.94 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 8.94 = 98.94



Actual Wellpath Report

DRY CREEK 23-27 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#21 DRY CREEK 23-27 (1036'FSL & 1104'FEL)
Area	COLORADO	Well	DRY CREEK 23-27
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DRY CREEK 23-27 AWB
Facility	SEC.27-T1N-R67W		

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	0.999965	Report Generated	12/29/2010 at 1:26:48 PM
Convergence at slot	0.41° East	Database/Source file	Denver Server/DRY_CREEK_23-27_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-3070.77	3002.58	3176121.78	1249918.96	40°01'03.720"N	104°52'16.212"W
Facility Reference Pt			3173097.99	1252968.61	40°01'34.068"N	104°52'54.804"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 12 (RKB) to Facility Vertical Datum	5059.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RKB) to Mean Sea Level	5059.00ft
Vertical Reference Pt	XTREME 12 (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 12 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	280.49°



Actual Wellpath Report

DRY CREEK 23-27 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#21 DRY CREEK 23-27 (1036'FSL & 1104'FEL)
Area	COLORADO	Well	DRY CREEK 23-27
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DRY CREEK 23-27 AWB
Facility	SEC.27-T1N-R67W		

WELLPATH DATA (86 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	218.500	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	218.500	15.00	0.00	0.00	0.00	0.00	
150.00	0.900	218.500	149.99	0.50	-0.83	-0.66	0.67	
242.00	1.400	251.900	241.98	1.82	-1.74	-2.18	0.89	
334.00	2.600	269.500	333.92	4.86	-2.11	-5.33	1.45	
427.00	3.600	287.000	426.78	9.83	-1.28	-10.23	1.47	
518.00	4.800	290.900	517.54	16.41	0.92	-16.52	1.35	
608.00	5.300	293.000	607.19	24.18	3.88	-23.87	0.59	
699.00	7.400	289.500	697.63	34.07	7.48	-33.26	2.35	
790.00	9.100	284.900	787.68	47.03	11.29	-45.74	2.00	
880.00	10.900	285.300	876.31	62.61	15.37	-60.83	2.00	
971.00	10.800	283.500	965.68	79.70	19.63	-77.42	0.39	
1062.00	11.900	280.000	1054.90	97.59	23.25	-94.95	1.43	
1152.00	11.400	280.000	1143.05	115.77	26.40	-112.85	0.56	
1221.00	9.900	278.200	1210.86	128.51	28.43	-125.43	2.23	
1312.00	11.200	283.200	1300.32	145.16	31.57	-141.78	1.75	
1403.00	12.300	280.700	1389.41	163.68	35.38	-159.91	1.33	
1494.00	13.500	280.700	1478.12	184.00	39.16	-179.87	1.32	
1585.00	15.100	281.400	1566.29	206.47	43.47	-201.93	1.77	
1675.00	17.200	280.000	1652.74	231.50	48.10	-226.53	2.37	
1766.00	19.300	281.100	1739.16	260.00	53.33	-254.54	2.34	
1857.00	19.100	281.100	1825.09	289.92	59.09	-283.91	0.22	
1948.00	19.300	280.000	1911.03	319.85	64.57	-313.33	0.45	
2039.00	19.400	279.600	1996.89	350.00	69.70	-343.04	0.18	
2129.00	18.600	277.900	2081.99	379.28	74.17	-371.99	1.08	
2220.00	18.800	276.500	2168.18	408.41	77.82	-400.94	0.54	
2311.00	19.200	278.900	2254.23	437.99	81.80	-430.29	0.96	
2402.00	18.500	278.600	2340.35	467.38	86.27	-459.35	0.78	
2492.00	18.100	276.300	2425.80	495.59	89.94	-487.36	0.92	
2583.00	18.400	275.100	2512.22	523.99	92.77	-515.72	0.53	
2674.00	19.700	275.800	2598.23	553.58	95.60	-545.29	1.45	
2765.00	19.300	277.200	2684.01	583.88	99.03	-575.46	0.68	
2856.00	19.200	276.800	2769.93	613.82	102.69	-605.24	0.18	
2946.00	17.900	280.000	2855.25	642.42	106.84	-633.56	1.83	
3037.00	17.800	282.800	2941.87	670.31	112.35	-660.90	0.95	
3128.00	17.800	282.100	3028.52	698.11	118.35	-688.06	0.24	
3219.00	17.800	284.900	3115.16	725.88	124.84	-715.10	0.94	
3309.00	17.900	283.900	3200.83	753.40	131.70	-741.82	0.36	
3400.00	17.900	287.700	3287.43	781.24	139.31	-768.72	1.28	
3491.00	17.400	287.000	3374.14	808.63	147.54	-795.06	0.60	
3582.00	17.900	283.200	3460.86	836.12	154.71	-821.68	1.38	
3672.00	18.100	282.800	3546.46	863.90	160.97	-848.78	0.26	
3763.00	19.200	281.400	3632.68	892.99	167.06	-877.24	1.30	
3854.00	18.700	279.600	3718.75	922.54	172.45	-906.29	0.85	
3945.00	18.800	280.000	3804.92	951.79	177.43	-935.11	0.18	



Actual Wellpath Report

DRY CREEK 23-27 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#21 DRY CREEK 23-27 (1036'FSL & 1104'FEL)
Area	COLORADO	Well	DRY CREEK 23-27
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DRY CREEK 23-27 AWB
Facility	SEC.27-T1N-R67W		

WELLPATH DATA (86 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4035.00	17.800	280.000	3890.36	980.05	182.34	-962.94	1.11	
4126.00	18.500	277.500	3976.84	1008.37	186.64	-990.95	1.15	
4217.00	17.300	277.500	4063.43	1036.30	190.29	-1018.68	1.32	
4308.00	18.000	279.300	4150.15	1063.87	194.33	-1045.98	0.98	
4399.00	18.200	276.100	4236.65	1092.10	198.11	-1073.98	1.11	
4489.00	17.300	278.200	4322.36	1119.49	201.51	-1101.20	1.23	
4580.00	17.100	281.800	4409.29	1146.38	206.18	-1127.69	1.19	
4671.00	20.200	280.700	4495.51	1175.48	211.83	-1156.23	3.43	
4762.00	19.100	279.300	4581.21	1206.07	217.15	-1186.37	1.31	
4853.00	17.700	279.600	4667.55	1234.79	221.87	-1214.70	1.54	
4943.00	17.400	283.800	4753.37	1261.91	227.36	-1241.26	1.45	
5034.00	19.100	280.000	4839.79	1290.38	233.19	-1269.14	2.28	
5125.00	19.100	282.000	4925.78	1320.15	238.87	-1298.36	0.72	
5216.00	19.400	280.000	5011.69	1350.15	244.59	-1327.81	0.80	
5306.00	17.200	278.900	5097.14	1378.40	249.25	-1355.68	2.47	
5397.00	14.000	278.200	5184.77	1402.86	252.90	-1379.87	3.52	
5488.00	11.300	276.800	5273.56	1422.76	255.52	-1399.63	2.99	
5579.00	9.000	271.900	5363.13	1438.69	256.82	-1415.60	2.70	
5670.00	7.700	266.300	5453.16	1451.64	256.66	-1428.79	1.68	
5760.00	6.700	262.800	5542.45	1462.49	255.61	-1440.02	1.21	
5851.00	5.600	261.700	5632.93	1471.75	254.31	-1449.68	1.22	
5942.00	4.500	249.800	5723.57	1479.03	252.43	-1457.42	1.66	
6033.00	4.200	244.800	5814.31	1484.80	249.78	-1463.79	0.53	
6124.00	3.200	249.100	5905.12	1489.68	247.46	-1469.18	1.14	
6214.00	1.600	258.900	5995.04	1492.99	246.32	-1472.76	1.83	
6305.00	1.400	248.700	6086.01	1495.12	245.67	-1475.04	0.37	
6396.00	0.400	276.800	6177.00	1496.38	245.30	-1476.39	1.17	
6487.00	0.600	40.600	6268.00	1496.46	245.70	-1476.40	0.97	
6623.00	0.600	29.000	6403.99	1495.87	246.87	-1475.59	0.09	
6759.00	0.600	297.900	6539.98	1496.33	247.82	-1475.87	0.63	
6895.00	0.400	268.000	6675.98	1497.47	248.14	-1476.98	0.24	
7031.00	0.300	155.900	6811.98	1497.73	247.80	-1477.31	0.43	
7168.00	0.300	205.500	6948.97	1497.62	247.15	-1477.31	0.18	
7304.00	0.400	115.100	7084.97	1497.25	246.62	-1477.04	0.37	
7440.00	0.200	219.200	7220.97	1496.91	246.24	-1476.76	0.36	
7576.00	0.400	233.900	7356.97	1497.35	245.77	-1477.29	0.16	
7713.00	0.400	99.300	7493.97	1497.20	245.41	-1477.20	0.54	
7849.00	0.200	86.600	7629.97	1496.49	245.35	-1476.50	0.15	
7985.00	0.400	190.000	7765.97	1496.26	244.90	-1476.34	0.36	
8115.00	0.400	79.600	7895.96	1495.83	244.53	-1475.98	0.51	LAST BHI MWD SURVEY
8165.00	0.400	79.600	7945.96	1495.50	244.60	-1475.63	0.00	PROJECTION TO BIT



Actual Wellpath Report

DRY CREEK 23-27 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#21 DRY CREEK 23-27 (1036'FSL & 1104'FEL)
Area	COLORADO	Well	DRY CREEK 23-27
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DRY CREEK 23-27 AWB
Facility	SEC.27-T1N-R67W		

HOLE & CASING SECTIONS Ref Wellbore: DRY CREEK 23-27 AWB Ref Wellpath: DRY CREEK 23-27 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	15.00	1207.00	1192.00	15.00	1197.07	0.00	0.00	28.08	-123.02
8.625in Casing Surface	15.00	1197.00	1182.00	15.00	1187.24	0.00	0.00	27.80	-121.25
7.875in Open Hole	1197.00	8165.00	6968.00	1187.24	7945.96	27.80	-121.25	244.60	-1475.63

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
RIVERBEND 25-13 GEO TARGET 50' RADIUS (1315'FSL & 2580'FEL, REV-1)		6000.00	273.26	-1476.06	3174643.87	1250181.74	40°01'06.420"N	104°52'35.184"W	circle
RIVERBEND 25-13 HARDLINE 56'W OF GEO TARGET		6000.00	273.26	-1532.06	3174587.88	1250181.34	40°01'06.420"N	104°52'35.904"W	point

WELLPATH COMPOSITION Ref Wellbore: DRY CREEK 23-27 AWB Ref Wellpath: DRY CREEK 23-27 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	1152.00	NaviTrak (Standard)	BHI MWD SURVEY 12.25 HOLE <150-1152>	DRY CREEK 23-27 AWB
1152.00	8115.00	NaviTrak (Standard)	BHI MWD SURVEYS 7.875 HOLE <1221-8115>	DRY CREEK 23-27 AWB
8115.00	8165.00	Blind Drilling (std)	Projection to bit	DRY CREEK 23-27 AWB



Actual Wellpath Report

DRY CREEK 23-27 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#21 DRY CREEK 23-27 (1036'FSL & 1104'FEL)
Area	COLORADO	Well	DRY CREEK 23-27
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DRY CREEK 23-27 AWB
Facility	SEC.27-T1N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8115.00	0.400	79.600	7895.96	LAST BHI MWD SURVEY
8165.00	0.400	79.600	7945.96	PROJECTION TO BIT