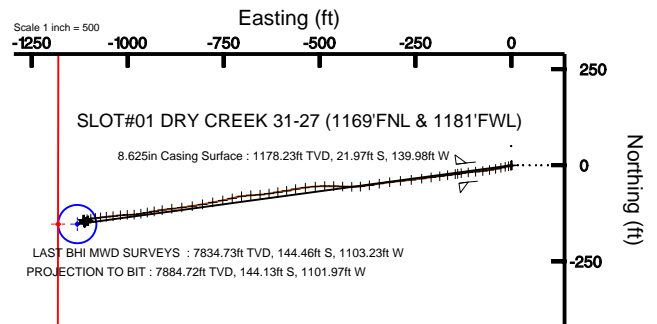
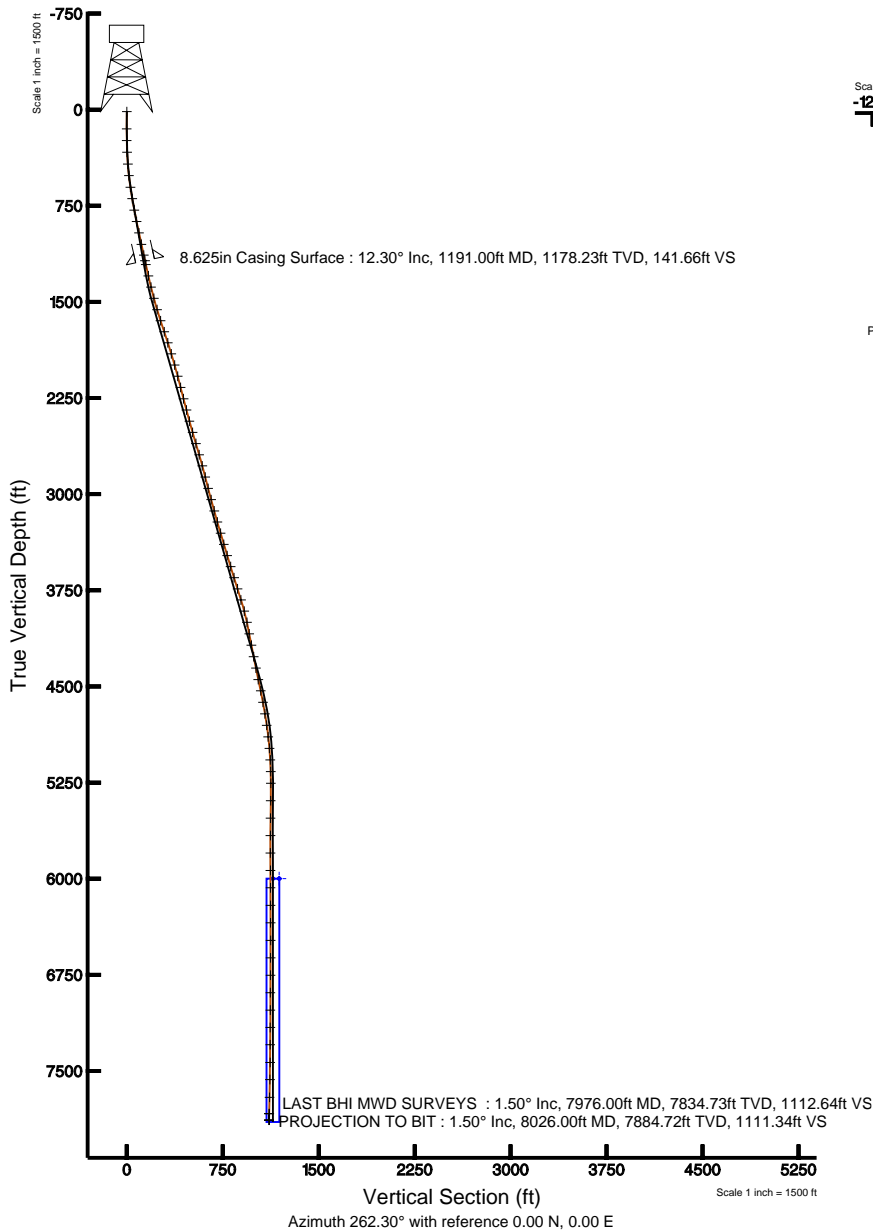


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#01 DRY CREEK 31-27 (1169'FNL & 1181'FWL)  
 Field: WELD COUNTY (KERR MCGEE) Well: DRY CREEK 31-27  
 Facility: SEC.27-T1N-R67W Wellbore: DRY CREEK 31-27 PWB



Plot reference wellpath is DRY CREEK 31-27 (REV-A.0.) PWB	
True vertical depths are referenced to XTREME 12 (RT)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 12 (RT)	North Reference: True north
XTREME 12 (RT) to Mean Sea Level: 5022 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 12/28/2010



BGGM (1945.0 to 2012.0) Dip: 66.76° Field: S3002 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 31-27 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 DRY CREEK 31-27 (1169'FNL & 1181'FWL)
Area	COLORADO	Well	DRY CREEK 31-27
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DRY CREEK 31-27 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	0.999964	Report Generated	12/29/2010 at 2:42:28 PM
Convergence at slot	0.40° East	Database/Source file	Denver Server/DRY_CREEK_31-27_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	3173097.99	1252968.61	40°01'34.068"N	104°52'54.804"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 (RT) to Facility Vertical Datum	5022.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RT) to Mean Sea Level	5022.00ft
Vertical Reference Pt	XTREME 12 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 12 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	262.30°



# Actual Wellpath Report

DRY CREEK 31-27 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 DRY CREEK 31-27 (1169'FNL & 1181'FWL)
Area	COLORADO	Well	DRY CREEK 31-27
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DRY CREEK 31-27 AWP
Facility	SEC.27-T1N-R67W		

## WELLPATH DATA (81 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	83.500	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	83.500	15.00	0.00	0.00	0.00	0.00	
149.00	1.100	83.500	148.99	-1.29	0.15	1.28	0.82	
240.00	1.000	247.000	239.99	-1.39	-0.07	1.41	2.28	
332.00	2.800	256.500	331.93	1.62	-0.90	-1.51	1.98	
424.00	4.700	258.200	423.73	7.61	-2.20	-7.38	2.07	
515.00	6.300	258.900	514.31	16.32	-3.92	-15.93	1.76	
606.00	8.200	257.200	604.58	27.76	-6.32	-27.16	2.10	
696.00	9.900	257.900	693.45	41.87	-9.37	-40.99	1.89	
787.00	10.600	260.700	783.00	58.04	-12.36	-56.90	0.94	
878.00	11.800	263.800	872.27	75.71	-14.72	-74.41	1.47	
969.00	12.100	264.200	961.30	94.54	-16.69	-93.15	0.34	
1060.00	12.300	264.600	1050.24	113.76	-18.56	-112.28	0.24	
1146.00	12.300	262.400	1134.27	132.07	-20.63	-130.48	0.54	
1221.00	12.300	261.000	1207.55	148.05	-22.94	-146.29	0.40	
1312.00	13.100	262.100	1296.32	168.05	-25.87	-166.08	0.92	
1402.00	13.500	262.800	1383.90	188.76	-28.59	-186.61	0.48	
1493.00	15.100	262.100	1472.08	211.23	-31.55	-208.89	1.77	
1584.00	16.700	262.800	1559.60	236.16	-34.82	-233.60	1.77	
1675.00	18.100	264.200	1646.43	263.36	-37.89	-260.64	1.61	
1766.00	18.700	264.600	1732.78	292.07	-40.69	-289.22	0.67	
1856.00	17.600	262.100	1818.30	320.09	-43.92	-317.07	1.50	
1947.00	17.300	261.400	1905.11	347.38	-47.83	-344.07	0.40	
2038.00	16.100	260.000	1992.27	373.52	-52.05	-369.88	1.39	
2129.00	14.200	264.200	2080.11	397.28	-55.37	-393.41	2.41	
2219.00	14.700	271.900	2167.27	419.58	-56.10	-415.81	2.20	
2310.00	15.600	272.600	2255.11	443.00	-55.17	-439.57	1.01	
2401.00	14.200	272.600	2343.05	466.02	-54.10	-462.95	1.54	
2492.00	15.600	268.400	2430.99	489.17	-53.94	-486.33	1.94	
2582.00	16.200	265.300	2517.54	513.74	-55.31	-510.94	1.16	
2673.00	17.100	262.800	2604.73	539.80	-58.02	-536.86	1.26	
2764.00	15.800	259.600	2692.00	565.55	-61.94	-562.32	1.74	
2854.00	15.000	259.300	2778.77	589.42	-66.31	-585.82	0.89	
2945.00	14.600	262.400	2866.75	612.65	-70.01	-608.76	0.97	
3036.00	14.600	260.000	2954.82	635.58	-73.52	-631.42	0.66	
3127.00	15.400	266.000	3042.72	659.10	-76.36	-654.77	1.92	
3218.00	15.600	266.600	3130.41	683.36	-77.93	-679.04	0.28	
3308.00	16.200	260.300	3216.97	707.98	-80.76	-703.50	2.03	
3399.00	15.300	255.400	3304.56	732.58	-85.93	-727.63	1.76	
3490.00	16.800	259.300	3392.01	757.64	-91.39	-752.18	2.03	
3581.00	17.300	258.900	3479.01	784.28	-96.44	-778.38	0.56	
3671.00	17.700	258.900	3564.85	811.29	-101.65	-804.93	0.44	
3762.00	17.200	261.400	3651.66	838.56	-106.33	-831.81	0.99	
3853.00	17.600	263.800	3738.50	865.76	-109.82	-858.79	0.90	
3944.00	16.400	263.000	3825.52	892.36	-112.88	-885.22	1.34	



# Actual Wellpath Report

DRY CREEK 31-27 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 DRY CREEK 31-27 (1169'FNL & 1181'FWL)
Area	COLORADO	Well	DRY CREEK 31-27
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DRY CREEK 31-27 AWP
Facility	SEC.27-T1N-R67W		

## WELLPATH DATA (81 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4035.00	15.700	260.000	3912.97	917.51	-116.58	-910.10	1.19	
4125.00	11.800	262.400	4000.38	938.89	-119.91	-931.22	4.38	
4216.00	10.900	258.200	4089.60	956.78	-122.90	-948.87	1.34	
4307.00	10.600	260.300	4179.00	973.72	-126.07	-965.54	0.54	
4398.00	11.700	264.900	4268.28	991.31	-128.30	-982.98	1.55	
4489.00	11.100	270.900	4357.49	1009.19	-128.99	-1000.93	1.46	
4580.00	12.100	261.700	4446.64	1027.39	-130.22	-1019.13	2.31	
4670.00	12.600	264.900	4534.56	1046.63	-132.46	-1038.24	0.94	
4761.00	9.800	264.200	4623.82	1064.28	-134.12	-1055.83	3.08	
4852.00	9.100	262.800	4713.58	1079.22	-135.81	-1070.68	0.81	
4943.00	8.100	263.500	4803.56	1092.83	-137.44	-1084.19	1.10	
5034.00	7.300	261.700	4893.74	1105.02	-139.00	-1096.28	0.92	
5124.00	5.200	262.400	4983.20	1114.82	-140.36	-1105.98	2.33	
5215.00	3.300	269.800	5073.94	1121.54	-140.92	-1112.69	2.17	
5306.00	0.900	247.700	5164.88	1124.83	-141.20	-1115.97	2.74	
5397.00	0.700	162.200	5255.87	1125.42	-142.00	-1116.46	1.20	
5533.00	0.700	121.100	5391.86	1124.63	-143.22	-1115.50	0.36	
5669.00	0.700	135.500	5527.85	1123.48	-144.24	-1114.20	0.13	
5805.00	0.300	137.000	5663.84	1122.78	-145.09	-1113.38	0.29	
5941.00	0.200	162.000	5799.84	1122.53	-145.58	-1113.06	0.11	
6077.00	0.300	219.500	5935.84	1122.75	-146.08	-1113.21	0.19	
6213.00	0.300	199.200	6071.84	1123.17	-146.69	-1113.56	0.08	
6350.00	0.300	190.400	6208.84	1123.44	-147.38	-1113.74	0.03	
6486.00	0.200	198.500	6344.84	1123.66	-147.96	-1113.88	0.08	
6623.00	0.100	215.300	6481.84	1123.85	-148.28	-1114.02	0.08	
6759.00	0.300	134.800	6617.84	1123.71	-148.63	-1113.84	0.22	
6895.00	0.500	109.900	6753.83	1122.97	-149.08	-1113.03	0.19	
7031.00	0.300	105.900	6889.83	1122.12	-149.38	-1112.13	0.15	
7167.00	0.200	35.700	7025.83	1121.63	-149.29	-1111.65	0.22	
7303.00	0.200	35.700	7161.83	1121.30	-148.90	-1111.37	0.00	
7437.00	0.300	18.800	7295.83	1120.98	-148.38	-1111.12	0.09	
7576.00	0.400	81.700	7434.82	1120.34	-147.96	-1110.52	0.27	
7709.00	1.100	48.700	7567.81	1118.81	-147.05	-1109.11	0.60	
7848.00	1.500	68.400	7706.78	1115.93	-145.50	-1106.41	0.43	
7976.00	1.500	75.400	7834.73	1112.64	-144.46	-1103.23	0.14	LAST BHI MWD SURVEYS
8026.00	1.500	75.400	7884.72	1111.34	-144.13	-1101.97	0.00	PROJECTION TO BIT



# Actual Wellpath Report

DRY CREEK 31-27 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 DRY CREEK 31-27 (1169'FNL & 1181'FWL)
Area	COLORADO	Well	DRY CREEK 31-27
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DRY CREEK 31-27 AWB
Facility	SEC.27-T1N-R67W		

HOLE & CASING SECTIONS Ref Wellbore: DRY CREEK 31-27 AWB Ref Wellpath: DRY CREEK 31-27 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	1201.00	1186.00	15.00	1188.00	0.00	0.00	-22.29	-142.08
8.625in Casing Surface	15.00	1191.00	1176.00	15.00	1178.23	0.00	0.00	-21.97	-139.98
7.875in Open Hole	1191.00	8026.00	6835.00	1178.23	7884.72	-21.97	-139.98	-144.13	-1101.97

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
DRY CREEK 31-27 GEO TARGET 50' RADIUS (1320'FNL & 50'FWL, REV-1)		6000.00	-152.98	-1131.44	3171967.69	1252807.76	40°01'32.556"N	104°53'09.348"W	circle
DRY CREEK 31-27 HARDLINE 50'W OF GEO TARGET		6000.00	-152.98	-1181.44	3171917.68	1252807.41	40°01'32.556"N	104°53'09.991"W	point

WELLPATH COMPOSITION Ref Wellbore: DRY CREEK 31-27 AWB Ref Wellpath: DRY CREEK 31-27 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	1146.00	NaviTrak (Standard)	BHI MWD SURVEY 12.25 HOLE <149-1146>	DRY CREEK 31-27 AWB
1146.00	7976.00	NaviTrak (Standard)	BHI MWD SURVEY 7.875 HOLE <1221-7976>	DRY CREEK 31-27 AWB
7976.00	8026.00	Blind Drilling (std)	Projection to bit	DRY CREEK 31-27 AWB



# Actual Wellpath Report

DRY CREEK 31-27 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 DRY CREEK 31-27 (1169'FNL & 1181'FWL)
Area	COLORADO	Well	DRY CREEK 31-27
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DRY CREEK 31-27 AWB
Facility	SEC.27-T1N-R67W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7976.00	1.500	75.400	7834.73	LAST BHI MWD SURVEYS
8026.00	1.500	75.400	7884.72	PROJECTION TO BIT