

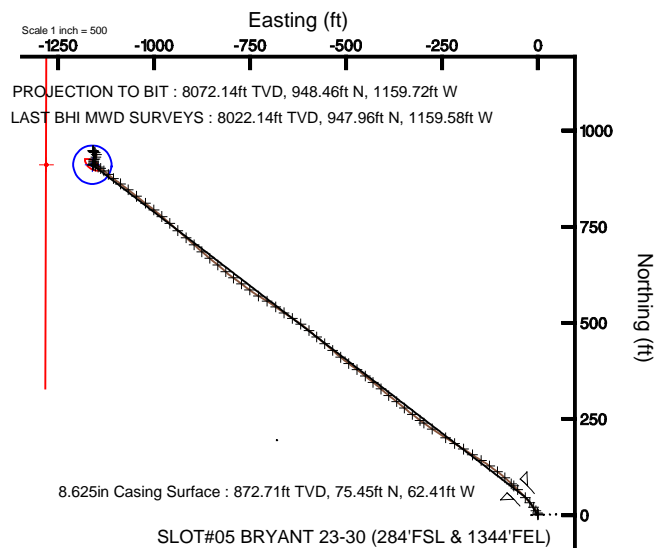
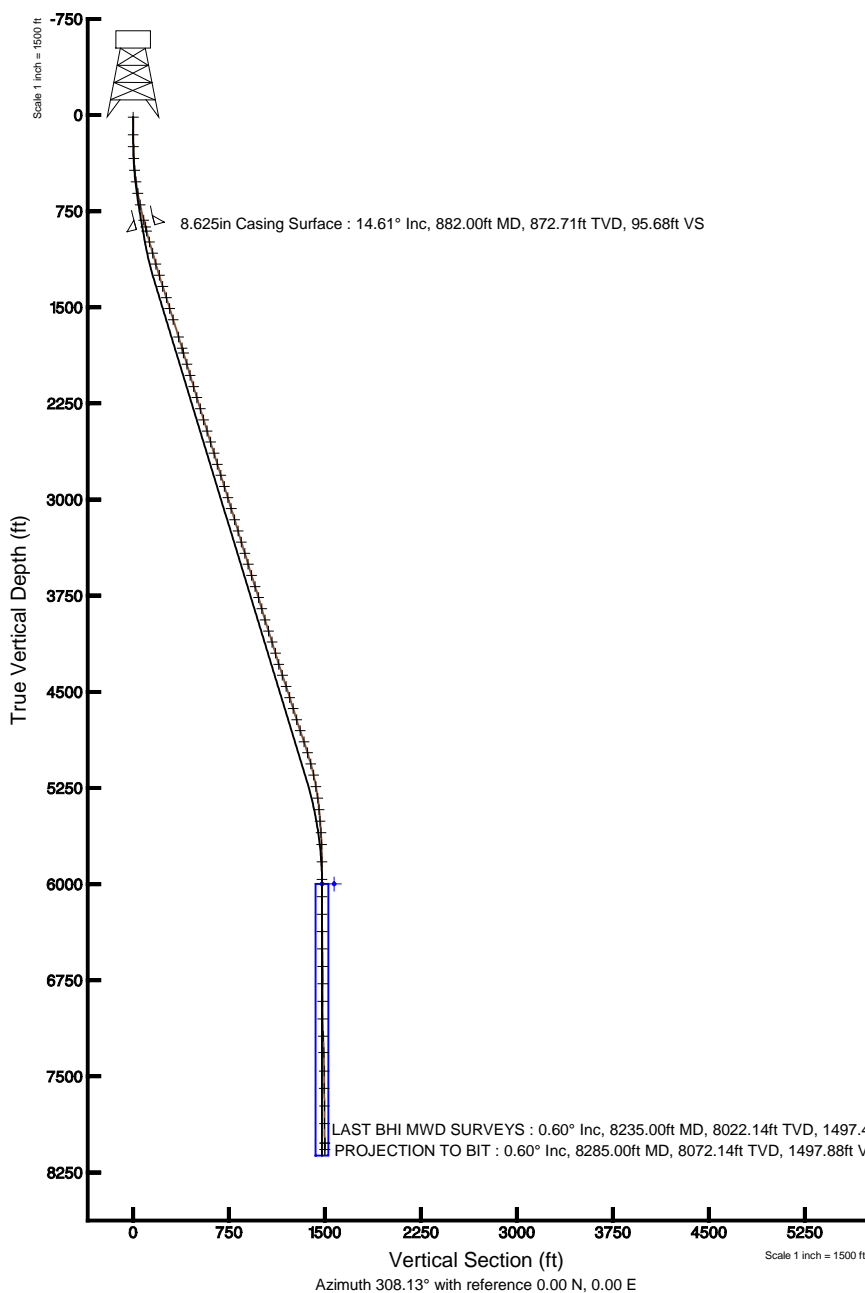


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#05 BRYANT 23-30 (284'FSL & 1344'FEL)  
Field: WELD COUNTY (KERR MCGEE) Well: BRYANT 23-30  
Facility: SEC.30-T2N-R68W Wellbore: BRYANT 23-30 PWB



Plot reference wellpath is BRYANT 23-30 (REV A.0) PWB	
True vertical depths are referenced to XTREME 12 (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to XTREME 12 (RKB)	North Reference: True north
XTREME 12 (RKB) to Mean Sea Level: 4943 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#05 BRYANT 23-30 (284'FSL & 1344'FEL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdarm on 10/14/2011



BGGM (1945.0 to 2012.0) Dip: 66.77° Field: 52943.4 nT  
Magnetic North is 8.93 degrees East of True North (at 8/5/2011)

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



# Actual Wellpath Report

BRYANT 23-30 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 BRYANT 23-30 (284'FSL & 1344'FEL)
Area	COLORADO	Well	BRYANT 23-30
Field	WELD COUNTY (KERR MCGEE)	Wellbore	BRYANT 23-30 awb
Facility	SEC.30-T2N-R68W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.1
North Reference	True	User	Cookdanm
Scale	0.99996	Report Generated	10/14/2011 at 5:27:03 PM
Convergence at slot	0.30° East	Database/Source file	WA_Denver/BRYANT_23-30_awb.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-1.82	-63.80	3128211.53	1280719.04	40°06'11.002"N	105°02'29.969"W
Facility Reference Pt			3128275.31	1280721.19	40°06'11.020"N	105°02'29.148"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	4943.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RKB) to Mean Sea Level	4943.00ft
Vertical Reference Pt	XTREME 12 (RKB)	XTREME 12 (RKB) to Mud Line at Slot (SLOT#05 BRYANT 23-30 (284'FSL & 1344'FEL))	4943.00ft
MD Reference Pt	XTREME 12 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	308.13°



# Actual Wellpath Report

BRYANT 23-30 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 BRYANT 23-30 (284'FSL & 1344'FEL)
Area	COLORADO	Well	BRYANT 23-30
Field	WELD COUNTY (KERR MCGEE)	Wellbore	BRYANT 23-30 awb
Facility	SEC.30-T2N-R68W		

## WELLPATH DATA (84 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	48.300	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	48.300	15.00	0.00	0.00	0.00	0.00	
153.00	1.000	48.300	152.99	-0.21	0.80	0.90	0.72	
245.00	1.100	347.100	244.98	0.33	2.20	1.30	1.17	
337.00	3.400	325.400	336.90	3.62	5.30	-0.45	2.62	
429.00	5.400	325.700	428.63	10.36	11.13	-4.43	2.17	
521.00	8.100	321.800	519.98	20.78	19.80	-10.88	2.98	
612.00	10.900	320.000	609.73	35.44	31.43	-20.38	3.09	
703.00	12.500	318.000	698.83	53.56	45.34	-32.50	1.81	
827.00	14.300	314.100	819.45	82.02	65.97	-52.48	1.62	
915.00	14.800	312.700	904.63	104.03	81.16	-68.54	0.69	
1002.00	15.600	310.900	988.59	126.79	96.35	-85.55	1.07	
1093.00	16.400	307.100	1076.07	151.86	112.11	-105.05	1.45	
1183.00	16.100	306.000	1162.47	177.03	127.11	-125.28	0.48	
1274.00	17.200	301.100	1249.66	203.00	141.48	-147.01	1.96	
1365.00	18.100	303.900	1336.37	230.45	156.31	-170.26	1.36	
1456.00	17.500	301.400	1423.02	258.13	171.33	-193.68	1.07	
1546.00	17.600	303.600	1508.83	285.14	185.91	-216.56	0.75	
1637.00	17.500	301.400	1595.60	312.44	200.65	-239.70	0.74	
1778.00	17.300	305.000	1730.15	354.43	223.72	-274.97	0.78	
1869.00	17.000	305.600	1817.10	381.23	239.22	-296.87	0.38	
1910.00	16.700	306.400	1856.34	393.10	246.21	-306.48	0.92	
2000.00	16.400	307.700	1942.61	418.73	261.65	-326.94	0.53	
2091.00	17.100	309.900	2029.75	444.95	278.09	-347.37	1.04	
2183.00	16.600	308.500	2117.80	471.61	294.95	-368.03	0.70	
2273.00	16.700	308.800	2204.03	497.40	311.05	-388.17	0.15	
2364.00	17.200	310.200	2291.08	523.92	327.93	-408.64	0.71	
2454.00	17.200	309.200	2377.05	550.52	344.93	-429.11	0.33	
2545.00	16.700	308.500	2464.10	577.05	361.57	-449.77	0.59	
2636.00	17.500	307.100	2551.07	603.81	377.97	-470.92	0.99	
2727.00	17.400	305.600	2637.89	631.08	394.14	-492.90	0.51	
2817.00	17.100	309.500	2723.84	657.75	410.39	-514.05	1.33	
2908.00	17.500	312.300	2810.73	684.77	428.11	-534.49	1.01	
2999.00	17.500	308.800	2897.52	712.10	445.89	-555.27	1.16	
3090.00	17.100	309.900	2984.40	739.15	463.05	-576.20	0.57	
3180.00	17.500	310.200	3070.33	765.90	480.27	-596.69	0.46	
3271.00	16.900	306.700	3157.26	792.80	497.01	-617.74	1.31	
3362.00	16.800	301.400	3244.36	819.09	511.76	-639.58	1.69	
3453.00	16.800	305.000	3331.48	845.28	526.16	-661.57	1.14	
3544.00	17.500	305.700	3418.43	872.08	541.69	-683.46	0.80	
3634.00	16.900	301.400	3504.41	898.59	556.40	-705.61	1.56	
3725.00	17.100	301.400	3591.43	925.01	570.26	-728.32	0.22	
3816.00	18.200	306.400	3678.15	952.51	585.66	-751.18	2.06	
3907.00	16.300	307.700	3765.06	979.48	601.91	-772.73	2.13	
3997.00	16.500	305.300	3851.40	1004.88	617.02	-793.15	0.78	



# Actual Wellpath Report

BRYANT 23-30 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 BRYANT 23-30 (284'FSL & 1344'FEL)
Area	COLORADO	Well	BRYANT 23-30
Field	WELD COUNTY (KERR MCGEE)	Wellbore	BRYANT 23-30 awb
Facility	SEC.30-T2N-R68W		

WELLPATH DATA (84 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4088.00	16.800	310.900	3938.59	1030.92	633.10	-813.64	1.79	
4179.00	17.800	309.900	4025.47	1057.96	650.63	-834.25	1.15	
4270.00	17.200	309.500	4112.26	1085.32	668.11	-855.30	0.67	
4361.00	16.800	310.900	4199.28	1111.90	685.28	-875.63	0.63	
4451.00	17.800	311.600	4285.21	1138.63	702.93	-895.75	1.13	
4542.00	17.900	310.900	4371.83	1166.48	721.32	-916.72	0.26	
4633.00	18.900	311.600	4458.17	1195.16	740.26	-938.31	1.13	
4724.00	17.700	311.600	4544.57	1223.68	759.23	-959.68	1.32	
4814.00	17.100	310.600	4630.45	1250.56	776.93	-979.95	0.74	
4905.00	17.400	308.100	4717.36	1277.53	794.03	-1000.82	0.88	
4996.00	18.800	307.800	4803.85	1305.80	811.41	-1023.11	1.54	
5087.00	18.600	308.800	4890.05	1334.97	829.49	-1046.01	0.42	
5178.00	17.200	307.100	4976.64	1362.94	846.70	-1068.05	1.64	
5268.00	15.600	306.700	5062.98	1388.34	861.96	-1088.37	1.78	
5359.00	12.800	308.100	5151.19	1410.66	875.50	-1106.12	3.10	
5450.00	9.900	309.500	5240.40	1428.57	886.70	-1120.09	3.20	
5541.00	7.900	307.800	5330.30	1442.64	895.51	-1131.07	2.22	
5631.00	6.000	305.300	5419.64	1453.53	902.02	-1139.79	2.14	
5722.00	4.200	292.000	5510.28	1461.48	906.01	-1146.77	2.35	
5813.00	4.000	292.000	5601.04	1467.73	908.45	-1152.80	0.22	
5904.00	2.300	309.500	5691.90	1472.60	910.80	-1157.15	2.13	
6040.00	1.300	214.200	5827.86	1475.22	911.26	-1160.13	2.02	
6176.00	0.600	43.000	5963.85	1475.06	910.51	-1160.51	1.39	
6312.00	0.800	23.400	6099.84	1475.24	911.90	-1159.64	0.23	
6448.00	1.000	14.900	6235.82	1475.95	913.92	-1158.96	0.18	
6583.00	1.200	8.600	6370.80	1477.11	916.45	-1158.45	0.17	
6719.00	1.600	0.200	6506.76	1478.98	919.76	-1158.23	0.33	
6855.00	1.800	356.300	6642.70	1481.57	923.79	-1158.36	0.17	
6990.00	1.100	101.400	6777.67	1481.83	925.65	-1157.23	1.73	
7129.00	1.100	35.700	6916.65	1480.69	926.47	-1155.14	0.86	
7265.00	3.500	29.700	7052.53	1481.36	931.14	-1152.32	1.77	
7401.00	3.200	347.900	7188.32	1484.89	938.46	-1151.06	1.77	
7528.00	1.900	297.600	7315.20	1489.68	942.90	-1153.67	1.94	
7673.00	0.500	276.500	7460.17	1492.58	944.08	-1156.43	1.00	
7809.00	0.600	314.000	7596.16	1493.80	944.64	-1157.53	0.27	
7945.00	0.500	320.100	7732.15	1495.09	945.59	-1158.42	0.09	
8082.00	0.500	333.700	7869.15	1496.21	946.59	-1159.07	0.09	
8235.00	0.600	344.300	8022.14	1497.46	947.96	-1159.58	0.09	LAST BHI MWD SURVEYS
8285.00	0.600	344.300	8072.14	1497.88	948.46	-1159.72	0.00	PROJECTION TO BIT



# Actual Wellpath Report

BRYANT 23-30 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 BRYANT 23-30 (284'FSL & 1344'FEL)
Area	COLORADO	Well	BRYANT 23-30
Field	WELD COUNTY (KERR MCGEE)	Wellbore	BRYANT 23-30 awb
Facility	SEC.30-T2N-R68W		

## HOLE & CASING SECTIONS - Ref Wellbore: BRYANT 23-30 awb Ref Wellpath: BRYANT 23-30 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	882.00	867.00	15.00	872.71	0.00	0.00	75.45	-62.41
8.625in Casing Surface	15.00	882.00	867.00	15.00	872.71	0.00	0.00	75.45	-62.41
7.875in Open Hole	882.00	8285.00	7403.00	872.71	8072.14	75.45	-62.41	948.46	-1159.72

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
BRYANT 23-30 GEO TARGET 50' RADIUS (1230'FSL & 2510'FEL,REV-1)		6000.00	911.77	-1161.43	3127045.45	1281624.76	40°06'20.012"N	105°02'44.916"W	circle
BRYANT 23-30 HARDLINE 120'W OF GEO TARGET		6000.00	911.81	-1281.43	3126925.46	1281624.17	40°06'20.012"N	105°02'46.460"W	point

## WELLPATH COMPOSITION - Ref Wellbore: BRYANT 23-30 awb Ref Wellpath: BRYANT 23-30 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8235.00	NaviTrak (Standard)	BHI MWD SURVEYS <153-8235>	BRYANT 23-30 awb
8235.00	8285.00	Blind Drilling (std)	Projection to bit	BRYANT 23-30 awb



# Actual Wellpath Report

**BRYANT 23-30 AWP**

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**REFERENCE WELLPATH IDENTIFICATION**

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 BRYANT 23-30 (284'FSL & 1344'FEL)
Area	COLORADO	Well	BRYANT 23-30
Field	WELD COUNTY (KERR MCGEE)	Wellbore	BRYANT 23-30 awb
Facility	SEC.30-T2N-R68W		

**WELLPATH COMMENTS**

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8235.00	0.600	344.300	8022.14	LAST BHI MWD SURVEYS
8285.00	0.600	344.300	8072.14	PROJECTION TO BIT