

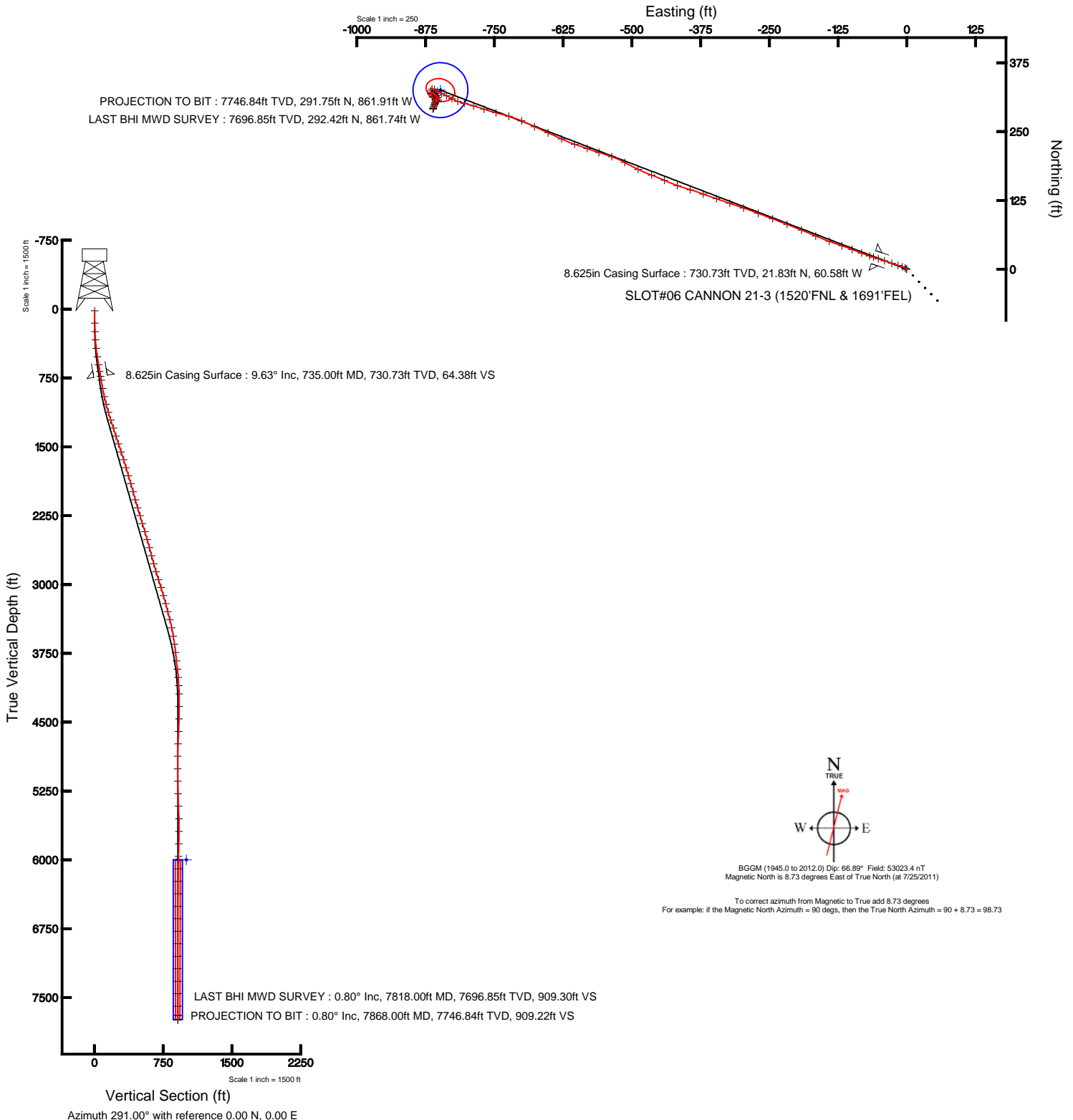


KERR MCGEE OIL & GAS ONSHORE LP



Location: COLORADO Slot: SLOT#06 CANNON 21-3 (1520'FNL & 1691'FEL)
Field: WELD COUNTY (KERR MCGEE) Well: CANNON 21-3
Facility: SEC.03-T2N-R65W Wellbore: CANNON 21-3 PWB

Plot reference wellpath is CANNON 21-3 (REV-A.0) PWP	
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: 4859 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#06 CANNON 21-3 (1520'FNL & 1691'FEL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: doddanna on 9/9/2011





Actual Wellpath Report

CANNON 21-3 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 CANNON 21-3 (1520'FNL & 1691'FEL)
Area	COLORADO	Well	CANNON 21-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CANNON 21-3 AWB
Facility	SEC.03-T2N-R65W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect@ 3.0.0
North Reference	True	User	Doddanna
Scale	0.999958	Report Generated	9/9/2011 at 2:27:45 PM
Convergence at slot	0.55° East	Database/Source file	WA_Denver/CANNON_21-3_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	57.24	-55.88	3238553.73	1306077.44	40°10'13.534"N	104°38'46.835"W
Facility Reference Pt			3238610.16	1306020.75	40°10'12.968"N	104°38'46.115"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	4859.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RKB) to Mean Sea Level	4859.00ft
Vertical Reference Pt	XTREME 12 (RKB)	XTREME 12 (RKB) to Mud Line at Slot (SLOT#06 CANNON 21-3 (1520'FNL & 1691'FEL))	4859.00ft
MD Reference Pt	XTREME 12 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	291.00°



Actual Wellpath Report

CANNON 21-3 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 CANNON 21-3 (1520'FNL & 1691'FEL)
Area	COLORADO	Well	CANNON 21-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CANNON 21-3 AWB
Facility	SEC.03-T2N-R65W		

WELLPATH DATA (76 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	315.000	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	315.000	15.00	0.00	0.00	0.00	0.00	
150.00	1.000	315.000	149.99	1.08	0.83	-0.83	0.74	
242.00	2.300	300.900	241.95	3.63	2.35	-2.98	1.47	
334.00	4.300	288.300	333.80	8.89	4.38	-7.84	2.30	
427.00	6.100	288.600	426.41	17.31	7.05	-15.84	1.94	
518.00	8.500	288.300	516.67	28.86	10.71	-26.81	2.64	
609.00	9.600	287.900	606.53	43.16	15.15	-40.41	1.21	
680.00	9.800	288.600	676.52	55.11	18.90	-51.77	0.33	
778.00	9.500	287.900	773.13	71.52	24.04	-67.37	0.33	
870.00	10.300	291.100	863.76	87.32	29.34	-82.27	1.06	
961.00	12.800	291.100	952.91	105.54	35.90	-99.27	2.75	
1045.00	14.700	288.300	1034.50	125.49	42.59	-118.07	2.40	
1135.00	16.200	290.400	1121.25	149.46	50.55	-140.68	1.78	
1226.00	17.800	292.800	1208.27	176.05	60.37	-165.40	1.92	
1317.00	17.900	291.800	1294.89	203.94	70.95	-191.21	0.35	
1408.00	18.400	291.400	1381.36	232.28	81.39	-217.57	0.57	
1498.00	17.900	290.700	1466.88	260.32	91.46	-243.73	0.61	
1589.00	18.300	290.400	1553.38	288.59	101.38	-270.20	0.45	
1680.00	17.800	289.700	1639.90	316.78	111.05	-296.69	0.60	
1771.00	16.600	288.600	1726.83	343.68	119.89	-322.11	1.37	
1861.00	16.200	289.000	1813.17	369.07	128.07	-346.16	0.46	
1952.00	16.400	290.000	1900.51	394.60	136.60	-370.24	0.38	
2043.00	15.500	286.500	1988.01	419.57	144.45	-393.97	1.45	
2134.00	15.900	289.700	2075.61	444.15	152.10	-417.36	1.05	
2225.00	16.400	293.900	2163.03	469.44	161.51	-440.84	1.40	
2315.00	16.300	291.100	2249.39	494.76	171.21	-464.24	0.88	
2406.00	17.900	294.600	2336.36	521.49	181.63	-488.87	2.09	
2497.00	17.000	299.500	2423.18	548.61	194.00	-513.17	1.89	
2588.00	16.100	288.300	2510.43	574.38	204.51	-536.73	3.64	
2679.00	15.100	288.100	2598.08	598.82	212.16	-559.98	1.10	
2769.00	14.200	288.600	2685.15	621.56	219.32	-581.59	1.01	
2860.00	16.200	289.300	2772.96	645.40	227.08	-604.15	2.21	
2951.00	17.100	294.900	2860.15	671.44	236.91	-628.27	2.02	
3042.00	17.000	294.400	2947.15	698.06	248.04	-652.52	0.20	
3133.00	17.700	294.200	3034.01	725.16	259.20	-677.25	0.77	
3223.00	15.700	293.900	3120.21	750.98	269.75	-700.86	2.22	
3314.00	15.800	285.500	3207.81	775.61	278.05	-724.06	2.51	
3405.00	15.000	285.400	3295.54	799.66	284.48	-747.35	0.88	
3496.00	13.600	287.900	3383.72	822.07	290.90	-768.89	1.68	
3587.00	12.200	286.500	3472.42	842.34	296.92	-788.29	1.58	
3678.00	9.500	284.700	3561.78	859.39	301.56	-804.78	2.99	
3768.00	7.000	289.000	3650.85	872.26	305.23	-817.15	2.86	
3859.00	7.400	300.200	3741.13	883.58	309.98	-827.46	1.60	
3950.00	6.800	296.700	3831.44	894.73	315.35	-837.33	0.81	



Actual Wellpath Report

CANNON 21-3 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 CANNON 21-3 (1520'FNL & 1691'FEL)
Area	COLORADO	Well	CANNON 21-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CANNON 21-3 AWB
Facility	SEC.03-T2N-R65W		

WELLPATH DATA (76 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4041.00	6.200	295.300	3921.85	904.99	319.87	-846.59	0.68	
4131.00	4.100	305.100	4011.48	912.96	323.80	-853.62	2.52	
4222.00	4.000	293.500	4102.26	919.29	326.93	-859.19	0.91	
4313.00	2.100	254.200	4193.13	923.79	327.75	-863.71	2.99	
4449.00	2.300	175.800	4329.06	924.63	324.34	-865.90	2.05	
4585.00	2.500	174.600	4464.94	922.14	318.67	-865.42	0.15	
4721.00	2.800	139.000	4600.80	917.89	313.21	-862.97	1.21	
4857.00	3.400	135.300	4736.60	911.28	307.84	-857.95	0.46	
4993.00	1.000	88.900	4872.50	906.51	304.99	-853.93	2.06	
5129.00	1.900	7.400	5008.47	905.94	307.25	-852.45	1.48	
5265.00	2.200	341.000	5144.38	908.15	311.95	-853.01	0.72	
5401.00	1.900	314.600	5280.30	911.89	316.01	-855.46	0.72	
5538.00	1.900	294.600	5417.23	916.24	318.55	-859.15	0.48	
5675.00	1.800	296.400	5554.15	920.65	320.45	-863.14	0.08	
5811.00	0.700	97.400	5690.14	921.97	321.29	-864.23	1.82	
5947.00	1.100	130.800	5826.12	919.93	320.33	-862.42	0.47	
6083.00	1.400	132.200	5962.09	917.15	318.36	-860.20	0.22	
6220.00	1.000	138.900	6099.06	914.54	316.34	-858.17	0.31	
6356.00	1.100	148.000	6235.04	912.45	314.34	-856.70	0.14	
6492.00	1.000	167.300	6371.01	910.74	312.07	-855.75	0.27	
6628.00	0.900	183.500	6506.99	909.76	309.85	-855.55	0.21	
6764.00	0.800	200.400	6642.98	909.43	307.89	-855.95	0.20	
6901.00	1.100	200.300	6779.96	909.41	305.76	-856.74	0.22	
7037.00	0.900	209.900	6915.94	909.56	303.61	-857.72	0.19	
7173.00	0.700	193.000	7051.93	909.61	301.88	-858.44	0.23	
7309.00	0.800	203.200	7187.92	909.53	300.19	-859.00	0.12	
7445.00	1.000	195.500	7323.90	909.45	298.18	-859.69	0.17	
7581.00	1.000	205.300	7459.88	909.42	295.96	-860.52	0.13	
7717.00	0.900	196.900	7595.86	909.44	293.87	-861.34	0.13	
7818.00	0.800	194.400	7696.85	909.30	292.42	-861.74	0.11	LAST BHI MWD SURVEY
7868.00	0.800	194.400	7746.84	909.22	291.75	-861.91	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: CANNON 21-3 AWB Ref Wellpath: CANNON 21-3 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	15.00	735.00	720.00	15.00	730.73	0.00	0.00	21.83	-60.58
8.625in Casing Surface	15.00	735.00	720.00	15.00	730.73	0.00	0.00	21.83	-60.58
7.875in Open Hole	735.00	7868.00	7133.00	730.73	7746.84	21.83	-60.58	291.75	-861.91



Actual Wellpath Report

CANNON 21-3 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 CANNON 21-3 (1520'FNL & 1691'FEL)
Area	COLORADO	Well	CANNON 21-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CANNON 21-3 AWB
Facility	SEC.03-T2N-R65W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
CANNON 21-3 GEO TARGET 50' RADIUS (1200'FNL & 2545'FEL REV-1)		6000.00	325.70	-848.42	3237702.26	1306394.94	40°10'16.752"N	104°38'57.764"W	circle
CANNON 21-3 HARDLINE 100'W OF GEO TARGET		6000.00	325.70	-948.45	3237602.23	1306393.98	40°10'16.752"N	104°38'59.053"W	point

WELLPATH COMPOSITION - Ref Wellbore: CANNON 21-3 AWB Ref Wellpath: CANNON 21-3 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	680.00	NaviTrak (Standard)	BHI MWD NAVITRAK 12.25 <150-680>	CANNON 21-3 AWB
680.00	7818.00	NaviTrak (Standard)	BHI MWD NAVITRAK 7.875 <778-7818>	CANNON 21-3 AWB
7818.00	7868.00	Blind Drilling (std)	Projection to bit	CANNON 21-3 AWB