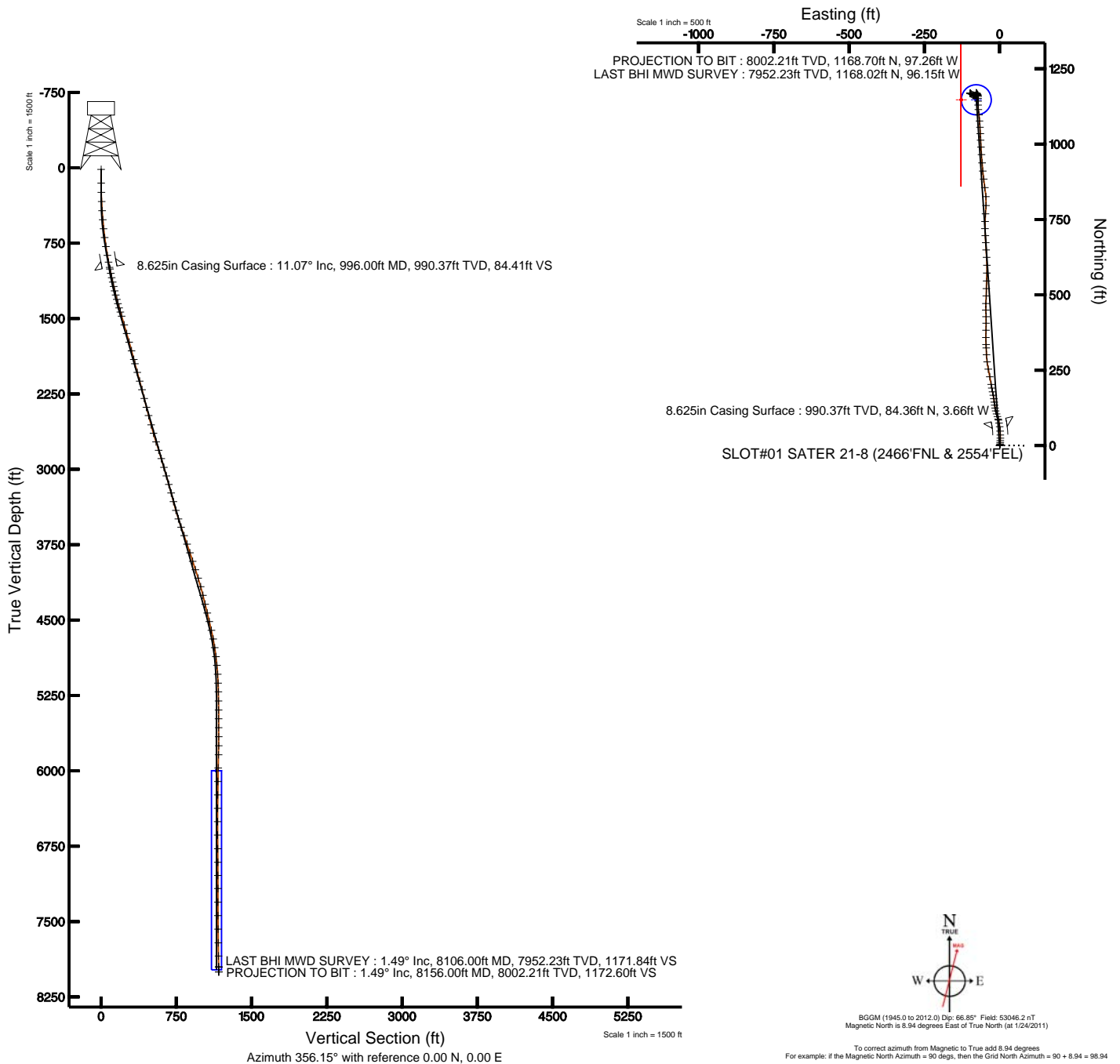


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#01 SATER 21-8 (2466'FNL & 2554'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: SATER 21-8
 Facility: SEC.08-T2N-R67W Wellbore: SATER 21-8 PWB



Plot reference wellpath is SATER 21-8 (REV-B.0) PWB	
True vertical depths are referenced to XTREME 15 (RKB)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 15 (RKB)	North Reference: True north
XTREME 15 (RKB) to Mean Sea Level: 4923 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.08-T2N-R67W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdarm on 5/19/2011





Actual Wellpath Report

SATER 21-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SATER 21-8 (2466'FNL & 2554'FEL)
Area	COLORADO	Well	SATER 21-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SATER 21-8 AWB
Facility	SEC.08-T2N-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	0.999958	Report Generated	5/19/2011 at 6:01:14 PM
Convergence at slot	0.38° East	Database/Source file	Denver Server/SATER_21-8_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	3163883.16	1299302.95	40°09'12.578"N	104°54'49.320"W
Facility Reference Pt			3163883.16	1299302.95	40°09'12.578"N	104°54'49.320"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 15 (RKB) to Facility Vertical Datum	4923.00ft
Horizontal Reference Pt	Slot	XTREME 15 (RKB) to Mean Sea Level	4923.00ft
Vertical Reference Pt	XTREME 15 (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 15 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	356.15°



Actual Wellpath Report

SATER 21-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	SATER 21-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SATER 21-8 AWP
Facility	SEC.08-T2N-R67W		

WELLPATH DATA (92 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	40.230	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	40.230	15.00	0.00	0.00	0.00	0.00	
151.00	0.700	40.230	151.00	0.60	0.63	0.54	0.51	
244.00	1.580	24.410	243.98	2.13	2.24	1.43	1.00	
335.00	2.550	5.420	334.92	5.24	5.39	2.14	1.29	
426.00	3.520	1.210	425.79	10.02	10.20	2.39	1.09	
516.00	4.390	1.560	515.57	16.20	16.41	2.55	0.97	
607.00	5.890	1.910	606.21	24.31	24.56	2.80	1.65	
695.00	7.650	357.690	693.59	34.66	34.92	2.71	2.08	
785.00	8.880	356.640	782.65	47.60	47.84	2.06	1.38	
874.00	9.930	352.070	870.46	62.12	62.30	0.60	1.45	
943.00	10.810	348.900	938.33	74.47	74.54	-1.47	1.52	
1013.00	11.160	345.030	1007.05	87.63	87.53	-4.48	1.17	
1056.00	11.870	343.280	1049.18	96.03	95.79	-6.83	1.84	
1100.00	13.360	340.820	1092.12	105.34	104.92	-9.80	3.60	
1145.00	12.740	344.680	1135.96	115.22	114.62	-12.82	2.38	
1190.00	12.390	351.010	1179.88	124.89	124.17	-14.88	3.16	
1235.00	13.270	354.170	1223.76	134.86	134.08	-16.16	2.50	
1277.00	14.060	352.420	1264.57	144.77	143.93	-17.33	2.12	
1323.00	14.850	352.070	1309.11	156.22	155.31	-18.88	1.73	
1367.00	15.470	348.900	1351.58	167.67	166.65	-20.78	2.35	
1410.00	16.000	347.490	1392.97	179.22	178.06	-23.17	1.52	
1454.00	16.960	349.250	1435.16	191.58	190.29	-25.68	2.46	
1497.00	16.960	350.660	1476.29	204.05	202.64	-27.87	0.96	
1587.00	16.520	349.250	1562.48	229.82	228.16	-32.39	0.67	
1677.00	16.440	348.900	1648.78	255.16	253.23	-37.23	0.14	
1766.00	15.470	352.400	1734.35	279.50	277.36	-41.22	1.53	
1855.00	15.560	357.690	1820.12	303.28	301.05	-43.27	1.59	
1944.00	13.890	357.690	1906.19	325.89	323.65	-44.18	1.88	
1989.00	15.120	356.990	1949.75	337.16	334.91	-44.71	2.76	
2078.00	15.290	0.500	2035.64	360.47	358.24	-45.22	1.05	
2168.00	16.080	0.500	2122.29	384.73	382.57	-45.00	0.88	
2256.00	14.330	1.560	2207.20	407.72	405.64	-44.60	2.01	
2346.00	13.800	358.040	2294.51	429.54	427.51	-44.66	1.12	
2437.00	14.060	357.690	2382.83	451.44	449.40	-45.48	0.30	
2522.00	15.290	3.670	2465.06	472.87	470.90	-45.18	2.29	
2618.00	15.730	0.850	2557.57	498.39	496.54	-44.18	0.91	
2705.00	16.170	1.560	2641.22	522.20	520.45	-43.67	0.55	
2794.00	17.050	1.910	2726.50	547.52	545.87	-42.90	1.00	
2882.00	17.750	1.210	2810.48	573.72	572.18	-42.19	0.83	
2969.00	16.880	359.450	2893.53	599.54	598.07	-42.03	1.17	
3060.00	16.790	356.280	2980.64	625.88	624.40	-43.01	1.01	
3148.00	15.820	356.640	3065.09	650.58	649.06	-44.54	1.11	
3236.00	15.730	357.690	3149.78	674.50	672.95	-45.72	0.34	
3325.00	15.030	355.230	3235.59	698.10	696.50	-47.16	1.08	



Actual Wellpath Report

SATER 21-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SATER 21-8 (2466'FNL & 2554'FEL)
Area	COLORADO	Well	SATER 21-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SATER 21-8 AWP
Facility	SEC.08-T2N-R67W		

WELLPATH DATA (92 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3414.00	14.940	358.390	3321.57	721.10	719.47	-48.45	0.92	
3504.00	15.820	3.320	3408.35	744.87	743.32	-48.06	1.75	
3593.00	17.580	3.670	3493.59	770.23	768.84	-46.50	1.98	
3680.00	19.160	2.960	3576.16	797.43	796.22	-44.92	1.83	
3769.00	19.900	355.200	3660.05	827.09	825.90	-45.43	3.03	
3859.00	19.000	351.400	3744.92	857.00	855.65	-48.91	1.72	
3950.00	17.600	353.500	3831.31	885.51	883.97	-52.68	1.70	
4038.00	17.800	353.800	3915.15	912.24	910.56	-55.64	0.25	
4127.00	18.200	356.300	3999.79	939.73	937.95	-58.00	0.98	
4215.00	17.800	355.200	4083.48	966.92	965.07	-60.02	0.60	
4303.00	15.700	357.300	4167.75	992.28	990.37	-61.70	2.48	
4392.00	14.000	356.600	4253.77	1015.09	1013.15	-62.91	1.92	
4483.00	13.600	358.000	4342.14	1036.79	1034.83	-63.94	0.57	
4573.00	13.700	356.800	4429.60	1058.02	1056.04	-64.90	0.33	
4661.00	13.900	354.500	4515.06	1079.01	1076.97	-66.49	0.66	
4751.00	12.400	354.500	4602.70	1099.47	1097.35	-68.46	1.67	
4839.00	10.700	353.800	4688.91	1117.08	1114.88	-70.25	1.94	
4926.00	9.100	359.800	4774.62	1132.02	1129.79	-71.14	2.19	
5017.00	6.900	358.700	4864.73	1144.66	1142.45	-71.29	2.42	
5104.00	6.100	1.900	4951.17	1154.48	1152.30	-71.26	1.01	
5193.00	3.400	358.700	5039.85	1161.82	1159.66	-71.16	3.05	
5281.00	2.200	331.000	5127.75	1165.96	1163.75	-72.04	2.02	
5368.00	1.700	325.700	5214.70	1168.58	1166.28	-73.57	0.61	
5459.00	1.300	299.300	5305.67	1170.31	1167.90	-75.23	0.87	
5549.00	0.400	230.000	5395.66	1170.69	1168.19	-76.37	1.35	
5636.00	0.200	358.400	5482.66	1170.66	1168.15	-76.60	0.63	
5724.00	0.400	340.800	5570.66	1171.11	1168.59	-76.71	0.25	
5815.00	1.000	319.800	5661.65	1172.05	1169.50	-77.33	0.71	
5904.00	0.400	177.000	5750.65	1172.37	1169.78	-77.81	1.51	
5994.00	1.800	154.500	5840.63	1170.74	1168.19	-77.19	1.60	
6125.00	1.600	153.800	5971.57	1167.14	1164.70	-75.49	0.15	
6260.00	1.100	143.600	6106.53	1164.30	1161.96	-73.89	0.41	
6394.00	0.600	154.500	6240.52	1162.56	1160.29	-72.83	0.39	
6527.00	0.400	112.000	6373.51	1161.72	1159.49	-72.10	0.31	
6660.00	0.090	55.350	6506.51	1161.57	1159.38	-71.58	0.27	
6793.00	0.440	296.520	6639.51	1161.88	1159.66	-71.95	0.37	
6930.00	0.880	294.060	6776.50	1162.64	1160.33	-73.38	0.32	
7064.00	1.140	278.590	6910.48	1163.40	1160.95	-75.64	0.28	
7195.00	1.140	282.460	7041.46	1164.05	1161.42	-78.20	0.06	
7326.00	1.140	271.560	7172.43	1164.54	1161.74	-80.77	0.17	
7461.00	1.410	260.310	7307.40	1164.50	1161.50	-83.75	0.27	
7595.00	0.620	300.390	7441.38	1164.74	1161.58	-86.01	0.76	
7730.00	1.050	301.090	7576.36	1165.86	1162.59	-87.69	0.32	
7866.00	1.670	301.790	7712.32	1167.73	1164.28	-90.45	0.46	
7997.00	1.670	304.600	7843.27	1170.02	1166.37	-93.64	0.06	



Actual Wellpath Report

SATER 21-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SATER 21-8 (2466'FNL & 2554'FEL)
Area	COLORADO	Well	SATER 21-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SATER 21-8 AWB
Facility	SEC.08-T2N-R67W		

WELLPATH DATA (92 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8106.00	1.490	301.790	7952.23	1171.84	1168.02	-96.15	0.18	LAST BHI MWD SURVEY
8156.00	1.490	301.790	8002.21	1172.60	1168.70	-97.26	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: SATER 21-8 AWB Ref Wellpath: SATER 21-8 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	1006.00	991.00	15.00	1000.18	0.00	0.00	86.22	-4.13
8.625in Casing Surface	15.00	996.00	981.00	15.00	990.37	0.00	0.00	84.36	-3.66
7.875in Open Hole	996.00	8156.00	7160.00	990.37	8002.21	84.36	-3.66	1168.70	-97.26

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
SATER 21-8 GEO TARGET 50' RADIUS (1320'FNL & 2640'FEL, REV-1)		6000.00	1147.17	-77.15	3163798.43	1300449.53	40°09'23.915"N	104°54'50.314"W	circle
SATER 21-8 HARDLINE 50'W OF GEO TARGET		6000.00	1147.17	-127.15	3163748.44	1300449.20	40°09'23.915"N	104°54'50.958"W	point

WELLPATH COMPOSITION Ref Wellbore: SATER 21-8 AWB Ref Wellpath: SATER 21-8 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	943.00	NaviTrak (Standard)	BHI MWD SURVEYS 12.25 HOLE <151-943>	SATER 21-8 AWB
943.00	8106.00	NaviTrak (Standard)	BHI MWD SURVEYS 7.875 HOLE <1013-8106>	SATER 21-8 AWB
8106.00	8156.00	Blind Drilling (std)	Projection to bit	SATER 21-8 AWB



Actual Wellpath Report

SATER 21-8 AWP

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REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	SATER 21-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SATER 21-8 AWB
Facility	SEC.08-T2N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8106.00	1.490	301.790	7952.23	LAST BHI MWD SURVEY
8156.00	1.490	301.790	8002.21	PROJECTION TO BIT