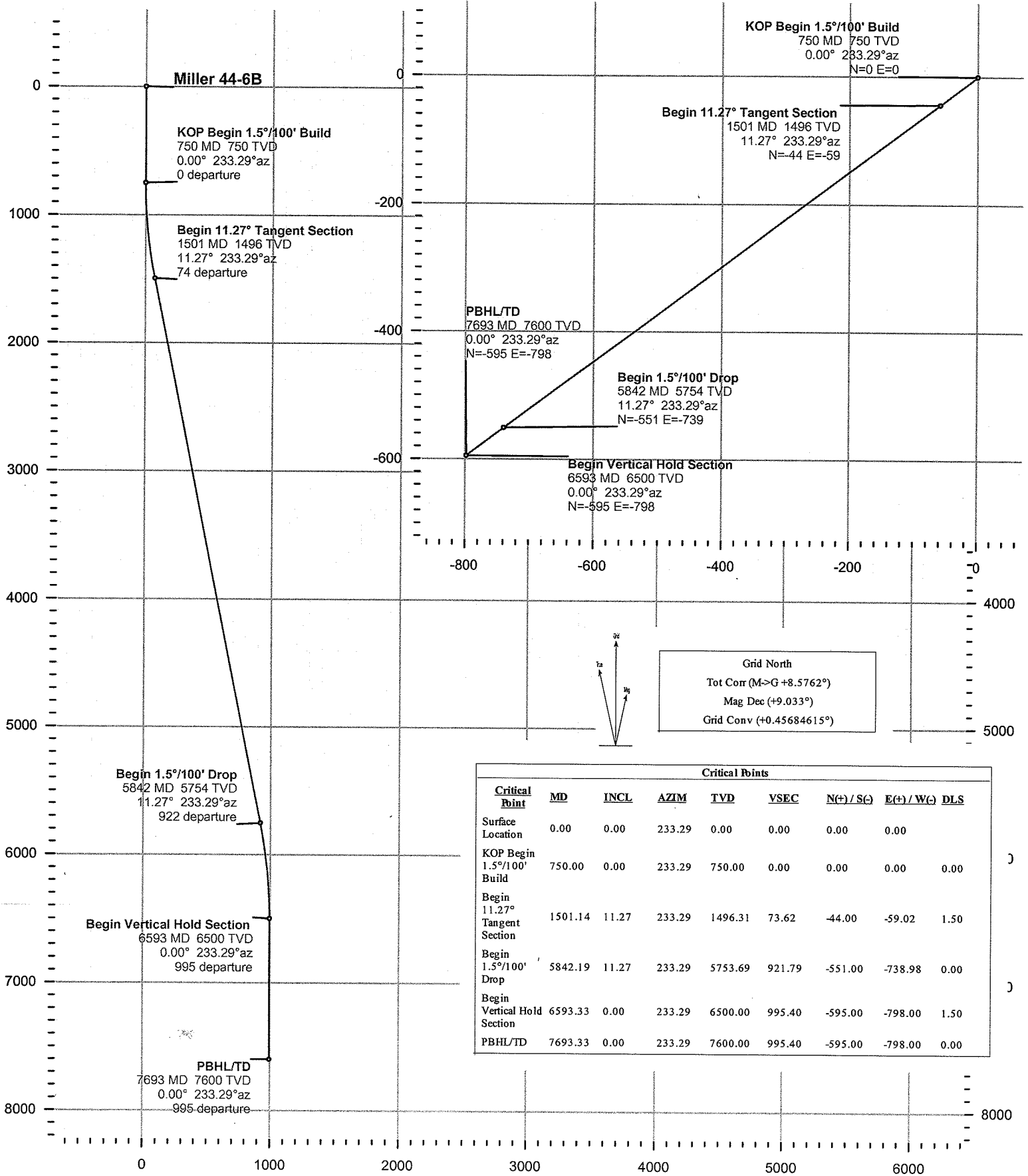


WELL <b>Miller 44-6B rev 1</b>	FIELD <b>Weld County, Colorado</b>	STRUCTURE <b>Miller 44-6B</b>
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Magnetic Parameters Model: IGRF 2005 Dip: 06.548° Mag Dec: +9.033°	Date: December 07, 2009 FS: 53245.2 nT	Surface Location Lat: N40 12 17.702 Lon: W104 47 34.834	NA037 Colorado State Plane, Northern Zone, US Feet Northing: 218275.29 IJUS Easting: 2197489.42 IJUS Grid Conv: +0.45684615' Scale Fact: 0.999997106	Miscellaneous Slot: Miller 44-6B Plan: Miller 44-6B rev 1	TVD Ref: 00.00 ft above MSL Srvy Date: December 07, 2008
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Grid North  
Tot Corr (M>G +8.5762°)  
Mag Dec (+9.033°)  
Grid Conv (+0.45684615°)

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Surface Location	0.00	0.00	233.29	0.00	0.00	0.00	0.00	
KOP Begin 1.5°/100' Build	750.00	0.00	233.29	750.00	0.00	0.00	0.00	0.00
Begin 11.27° Tangent Section	1501.14	11.27	233.29	1496.31	73.62	-44.00	-59.02	1.50
Begin 1.5°/100' Drop	5842.19	11.27	233.29	5753.69	921.79	-551.00	-738.98	0.00
Begin Vertical Hold Section	6593.33	0.00	233.29	6500.00	995.40	-595.00	-798.00	1.50
PBHL/TD	7693.33	0.00	233.29	7600.00	995.40	-595.00	-798.00	0.00

Vertical Section (ft) Azim = 233.29°, Scale = 1(in):1000(ft) Origin = 0 N/S, 0 E/W

# Planning Proposal

<b>Report Date:</b> December 7, 2009 <b>Client:</b> Merit Energy Company <b>Field:</b> Weld County, Colorado <b>Structure / Slot:</b> Miller 44-6B / Miller 44-6B <b>Well:</b> Miller 44-6B <b>Borehole:</b> Miller 44-6B Original Hole <b>UW/AP#:</b> <b>Survey Name / Date:</b> Miller 44-6B rev 1 / December 7, 2009 <b>Tort / AHD / DDI / ERD ratio:</b> 22.534° / 995.40 ft / 4.356 / 0.131 <b>Grid Coordinate System:</b> NAD27 Colorado State Planes, Northern Zone, US Feet <b>Location Lat/Long:</b> N 40 12 17.702, W 104 47 34.634 <b>Location Grid N/E Y/X:</b> N 318275.291 ftUS, E 2197489.433 ftUS <b>Grid Convergence Angle:</b> +0.45684615° <b>Grid Scale Factor:</b> 0.99995717	<b>Survey / DLS Computation Method:</b> Minimum Curvature / Lubinski <b>Vertical Section Azimuth:</b> 233.290° <b>Vertical Section Origin:</b> N 0.000 ft, E 0.000 ft <b>TVD Reference Datum:</b> <b>TVD Reference Elevation:</b> 0.0 ft relative to MSL <b>Sea Bed / Ground Level Elevation:</b> 4980.000 ft relative to MSL <b>Magnetic Declination:</b> 9.033° <b>Total Field Strength:</b> 53245.227 nT <b>Magnetic Dip:</b> 66.948° <b>Declination Date:</b> December 07, 2009 <b>Magnetic Declination Model:</b> IGRF 2005 <b>North Reference:</b> Grid North <b>Total Corr Mag North -&gt; Grid North:</b> +8.576° <b>Local Coordinates Referenced To:</b> Well Head
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Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Closure (ft)	Closure Azimuth (deg)
Surface Location	0.00	0.00	233.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.00	233.29	100.00	0.00	0.00	0.00	0.00	0.00	0.00
	200.00	0.00	233.29	200.00	0.00	0.00	0.00	0.00	0.00	0.00
	300.00	0.00	233.29	300.00	0.00	0.00	0.00	0.00	0.00	0.00
	400.00	0.00	233.29	400.00	0.00	0.00	0.00	0.00	0.00	0.00
	500.00	0.00	233.29	500.00	0.00	0.00	0.00	0.00	0.00	0.00
	600.00	0.00	233.29	600.00	0.00	0.00	0.00	0.00	0.00	0.00
	700.00	0.00	233.29	700.00	0.00	0.00	0.00	0.00	0.00	0.00
OP Begin 1.5°/100' build	750.00	0.00	233.29	750.00	0.00	0.00	0.00	0.00	0.00	0.00
	800.00	0.75	233.29	800.00	0.33	-0.20	-0.26	1.50	0.33	233.29
	900.00	2.25	233.29	899.96	2.94	-1.76	-2.36	1.50	2.94	233.29
	1000.00	3.75	233.29	999.82	8.18	-4.89	-6.56	1.50	8.18	233.29
	1100.00	5.25	233.29	1099.51	16.02	-9.58	-12.85	1.50	16.02	233.29
	1200.00	6.75	233.29	1198.96	26.48	-15.83	-21.23	1.50	26.48	233.29
	1300.00	8.25	233.29	1298.10	39.53	-23.63	-31.69	1.50	39.53	233.29
	1400.00	9.75	233.29	1396.87	55.17	-32.98	-44.23	1.50	55.17	233.29
	1500.00	11.25	233.29	1495.19	73.39	-43.87	-58.84	1.50	73.39	233.29
Begin 11.27° Tangent section	1501.14	11.27	233.29	1496.31	73.62	-44.00	-59.02	1.50	73.62	233.29
	1600.00	11.27	233.29	1593.26	92.93	-55.55	-74.50	0.00	92.93	233.29
	1700.00	11.27	233.29	1691.34	112.47	-67.23	-90.17	0.00	112.47	233.29
	1800.00	11.27	233.29	1789.41	132.01	-78.91	-105.83	0.00	132.01	233.29
	1900.00	11.27	233.29	1887.48	151.55	-90.59	-121.49	0.00	151.55	233.29
	2000.00	11.27	233.29	1985.55	171.09	-102.27	-137.16	0.00	171.09	233.29
	2100.00	11.27	233.29	2083.63	190.62	-113.95	-152.82	0.00	190.62	233.29
	2200.00	11.27	233.29	2181.70	210.16	-125.62	-168.48	0.00	210.16	233.29
	2300.00	11.27	233.29	2279.77	229.70	-137.30	-184.15	0.00	229.70	233.29
	2400.00	11.27	233.29	2377.84	249.24	-148.98	-199.81	0.00	249.24	233.29
	2500.00	11.27	233.29	2475.92	268.78	-160.66	-215.48	0.00	268.78	233.29
	2600.00	11.27	233.29	2573.99	288.32	-172.34	-231.14	0.00	288.32	233.29
	2700.00	11.27	233.29	2672.06	307.85	-184.02	-246.80	0.00	307.85	233.29
	2800.00	11.27	233.29	2770.14	327.39	-195.70	-262.47	0.00	327.39	233.29
	2900.00	11.27	233.29	2868.21	346.93	-207.38	-278.13	0.00	346.93	233.29
	3000.00	11.27	233.29	2966.28	366.47	-219.06	-293.79	0.00	366.47	233.29
	3100.00	11.27	233.29	3064.35	386.01	-230.74	-309.46	0.00	386.01	233.29
	3200.00	11.27	233.29	3162.43	405.55	-242.41	-325.12	0.00	405.55	233.29
	3300.00	11.27	233.29	3260.50	425.08	-254.09	-340.78	0.00	425.08	233.29

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Closure (ft)	Closure Azimuth (deg)
	3400.00	11.27	233.29	3358.57	444.62	-265.77	-356.45	0.00	444.62	233.29
	3500.00	11.27	233.29	3456.64	464.16	-277.45	-372.11	0.00	464.16	233.29
	3600.00	11.27	233.29	3554.72	483.70	-289.13	-387.77	0.00	483.70	233.29
	3700.00	11.27	233.29	3652.79	503.24	-300.81	-403.44	0.00	503.24	233.29
	3800.00	11.27	233.29	3750.86	522.78	-312.49	-419.10	0.00	522.78	233.29
	3900.00	11.27	233.29	3848.93	542.31	-324.17	-434.77	0.00	542.31	233.29
	4000.00	11.27	233.29	3947.01	561.85	-335.85	-450.43	0.00	561.85	233.29
	4100.00	11.27	233.29	4045.08	581.39	-347.53	-466.09	0.00	581.39	233.29
	4200.00	11.27	233.29	4143.15	600.93	-359.20	-481.76	0.00	600.93	233.29
	4300.00	11.27	233.29	4241.23	620.47	-370.88	-497.42	0.00	620.47	233.29
	4400.00	11.27	233.29	4339.30	640.01	-382.56	-513.08	0.00	640.01	233.29
	4500.00	11.27	233.29	4437.37	659.55	-394.24	-528.75	0.00	659.55	233.29
	4600.00	11.27	233.29	4535.44	679.08	-405.92	-544.41	0.00	679.08	233.29
	4700.00	11.27	233.29	4633.52	698.62	-417.60	-560.07	0.00	698.62	233.29
	4800.00	11.27	233.29	4731.59	718.16	-429.28	-575.74	0.00	718.16	233.29
	4900.00	11.27	233.29	4829.66	737.70	-440.96	-591.40	0.00	737.70	233.29
	5000.00	11.27	233.29	4927.73	757.24	-452.64	-607.07	0.00	757.24	233.29
	5100.00	11.27	233.29	5025.81	776.78	-464.32	-622.73	0.00	776.78	233.29
	5200.00	11.27	233.29	5123.88	796.31	-475.99	-638.39	0.00	796.31	233.29
	5300.00	11.27	233.29	5221.95	815.85	-487.67	-654.06	0.00	815.85	233.29
	5400.00	11.27	233.29	5320.03	835.39	-499.35	-669.72	0.00	835.39	233.29
	5500.00	11.27	233.29	5418.10	854.93	-511.03	-685.38	0.00	854.93	233.29
	5600.00	11.27	233.29	5516.17	874.47	-522.71	-701.05	0.00	874.47	233.29
	5700.00	11.27	233.29	5614.24	894.01	-534.39	-716.71	0.00	894.01	233.29
	5800.00	11.27	233.29	5712.32	913.54	-546.07	-732.37	0.00	913.54	233.29
Begin 1.5°/100' Drop	5842.19	11.27	233.29	5753.69	921.79	-551.00	-738.98	0.00	921.79	233.29
	5900.00	10.40	233.29	5810.47	932.65	-557.49	-747.69	1.50	932.65	233.29
	6000.00	8.90	233.29	5909.05	949.41	-567.51	-761.13	1.50	949.41	233.29
	6100.00	7.40	233.29	6008.04	963.59	-575.98	-772.50	1.50	963.59	233.29
	6200.00	5.90	233.29	6107.37	975.17	-582.91	-781.78	1.50	975.17	233.29
	6300.00	4.40	233.29	6206.96	984.15	-588.27	-788.98	1.50	984.15	233.29
	6400.00	2.90	233.29	6306.75	990.51	-592.08	-794.08	1.50	990.51	233.29
	6500.00	1.40	233.29	6406.68	994.26	-594.32	-797.09	1.50	994.26	233.29
Begin Vertical Hold section	6593.33	0.00	233.29	6500.00	995.40	-595.00	-798.00	1.50	995.40	233.29
	6600.00	0.00	233.29	6506.67	995.40	-595.00	-798.00	0.00	995.40	233.29
	6700.00	0.00	233.29	6606.67	995.40	-595.00	-798.00	0.00	995.40	233.29
	6800.00	0.00	233.29	6706.67	995.40	-595.00	-798.00	0.00	995.40	233.29
	6900.00	0.00	233.29	6806.67	995.40	-595.00	-798.00	0.00	995.40	233.29
	7000.00	0.00	233.29	6906.67	995.40	-595.00	-798.00	0.00	995.40	233.29
	7100.00	0.00	233.29	7006.67	995.40	-595.00	-798.00	0.00	995.40	233.29
	7200.00	0.00	233.29	7106.67	995.40	-595.00	-798.00	0.00	995.40	233.29
	7300.00	0.00	233.29	7206.67	995.40	-595.00	-798.00	0.00	995.40	233.29
	7400.00	0.00	233.29	7306.67	995.40	-595.00	-798.00	0.00	995.40	233.29
	7500.00	0.00	233.29	7406.67	995.40	-595.00	-798.00	0.00	995.40	233.29
	7600.00	0.00	233.29	7506.67	995.40	-595.00	-798.00	0.00	995.40	233.29
PHL/TD	7693.33	0.00	233.29	7600.00	995.40	-595.00	-798.00	0.00	995.40	233.29

**Survey Type:** Non-Def Proposal

**Survey Error Model:** SLB ISCWSA version 24 \*\*\* 3-D 95.00% Confidence 2.7955 sigma

**Surveying Prog:**

**MD From (ft)**

**MD To (ft) EQU Freq Survey Tool Type**

**Borehole -> Survey**

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Closure (ft)	Closure Azimuth (deg)
	-4980.00		-4800.00	1/100.00	SLB_NSG+MSHOT				Miller 44-6B Original Hole ->	Miller 44-6B rev 1
	-4800.00		0.00	Act-Stns	SLB_NSG+MSHOT				Miller 44-6B Original Hole ->	Miller 44-6B rev 1
	0.00		7693.33	1/100.00	SLB_MWD-STD				Miller 44-6B Original Hole ->	Miller 44-6B rev 1