RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL
TEMPERATURE

Company BILL BARRETT CORPORATION
Well GGU FEDERAL 11C - 33 - 691
Field GIBSON GULCH
County GARFIELD State COLORADO
Location: API # : 05 - 045 - 18918
SHL: 0426' FNL & 0266' FWL
BHL: 0490' FNL & 0664' FWL
SEC 33 TWP 6S RGE 91W
Other Services 3.75" GAUGE RING

Permanent Datum	G.L.	Elevation	6352'
Log Measured From	K.B.	Ft Above PD	23'
Drilling Measured From	K.B.		

Elevation
K.B. 6375'
D.F. 6374'
G.L. 6352'

Date	09 - 09 - 2010
Run Number	ONE
Depth Driller	8430'
Present Depth Driller	NA
Depth Logger	8363'
Bottom Logged Interval	8361'
Top Log Interval	2300'
Fluid Level	SURFACE
Type Fluid	WATER
Max. Recorded Temp.	230.9° F
Estimated Cement Top	3206'
Equipment Number	208
Location	GRAND JCT.
Recorded By	INGRAM
Witnessed By	MR. LAFFERTY

Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.750"	825'	5332'	9.625"	36#	SURFACE	825'
TWO	7.880"	5332'	8430'	4.5"	11.6#	SURFACE	8430'

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

WARRIOR 7.0 SOFTWARE - Comments

NOTE: LOG WAS DEPTH CORRELATED USING WEATHER OPEN HOLE LOG DATED 8-1-10
SHORT JOINTS: 4673' TO 4694' & 6002' TO 6023'
MAIN PASS: 5" = 100'
TEMP PASS: 2" = 100'
CSG PSI = STATIC

Calibration Report

Database File: c:\warrior\data\ggu federal\090910_barrett_ggufederal_11c_33.db
Dataset Pathname: main/pass1.2
Dataset Creation: Thu Sep 09 21:37:52 2010

Temperature Calibration Report

Serial Number: 217894
Tool Model: 016
Performed: Fri Oct 24 13:23:59 2008

Point #	Reading		Reference	
1	13298.00	cps	75.97	degF
2	17844.00	cps	104.32	degF
3	29434.00	cps	175.71	degF
4	41028.00	cps	246.70	degF
5	52674.00	cps	317.75	degF
6	58555.00	cps	353.61	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Serial Number: 217692
Tool Model: 020
Performed: Sun Jun 13 13:33:21 1993

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 1122
Tool Model: 004

Calibration Casing Diameter: 4.500 in
Calibration Depth: 236.054 ft

Master Calibration, performed Thu Sep 09 14:11:38 2010:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.028	0.882	1.000	81.196	73.717	0.999
5FT	0.020	0.964	1.000	81.196	72.412	0.993
S1	0.036	0.912	0.000	100.000	114.165	-4.149
S2	0.036	0.931	0.000	100.000	111.832	-4.078
S3	0.036	0.873	0.000	100.000	119.372	-4.264
S4	0.034	0.861	0.000	100.000	120.990	-4.128
S5	0.036	0.852	0.000	100.000	122.615	-4.430
S6	0.035	0.863	0.000	100.000	120.801	-4.247
S7	0.036	0.887	0.000	100.000	117.590	-4.263
S8	0.035	0.905	0.000	100.000	115.034	-4.058

Calibration Report

Serial Number: 1122
Tool Model: 004
Performed:

	Reference (degF)	Reading ()
Low:	0.000	0.000
High:	1.000	1.000
	Gain = 1.000	Offset= 0.000

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MAIN PASS

Database File: c:\warrior\data\ggu federal\090910_barrett_ggufederal_11c_33.db
Dataset Pathname: main/pass1.2
Presentation Format: rmws_dsc
Dataset Creation: Thu Sep 09 21:37:52 2010
Charted by: Depth in Feet scaled 1:240

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MAIN PASS

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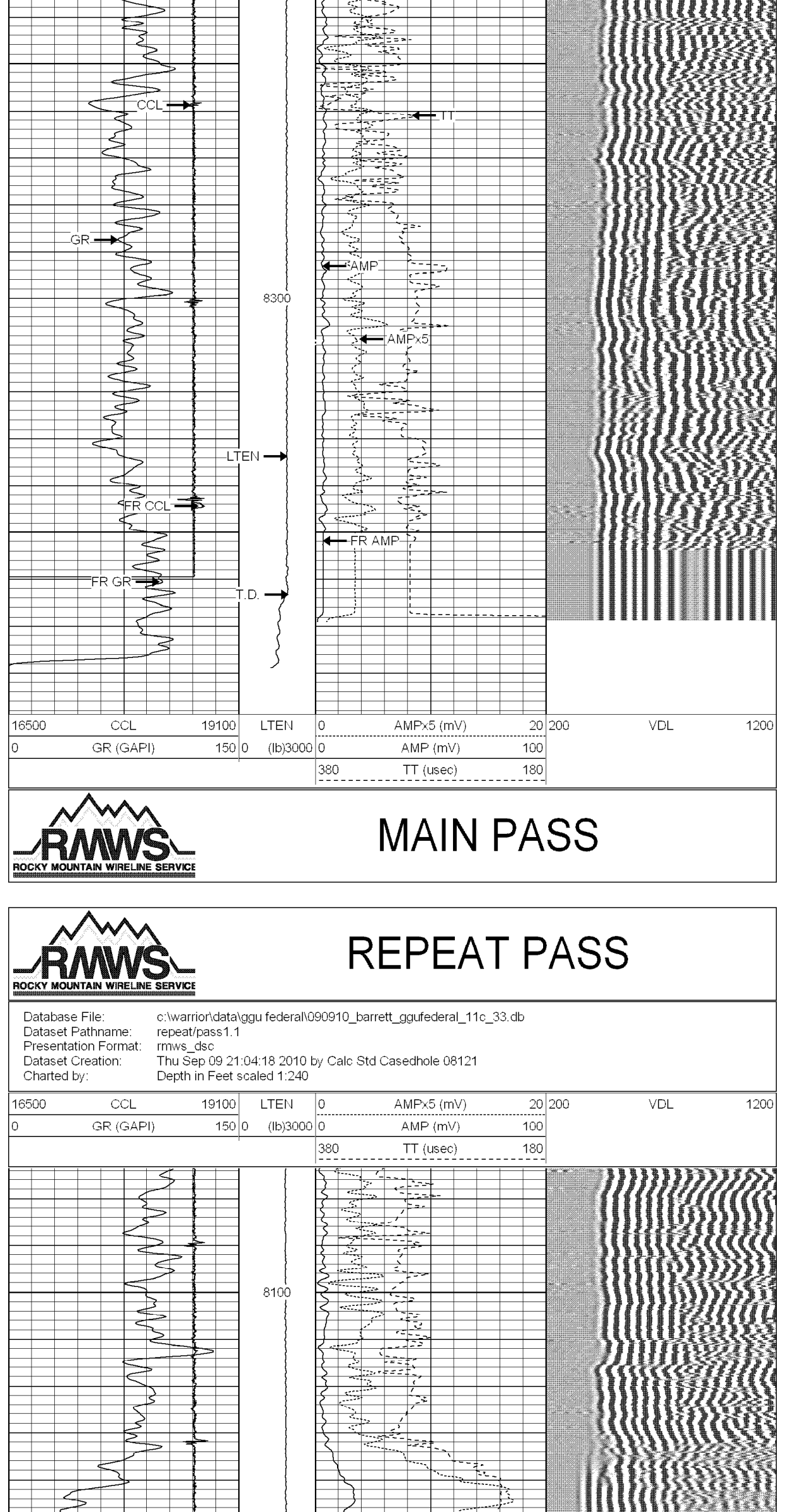
REPEAT PASS

Database File: c:\warrior\data\ggu federal\090910_barrett_ggufederal_11c_33.db
Dataset Pathname: repeat/pass1.1
Presentation Format: rmws_dsc
Dataset Creation: Thu Sep 09 21:04:18 2010 by Calc Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240



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REPEAT PASS

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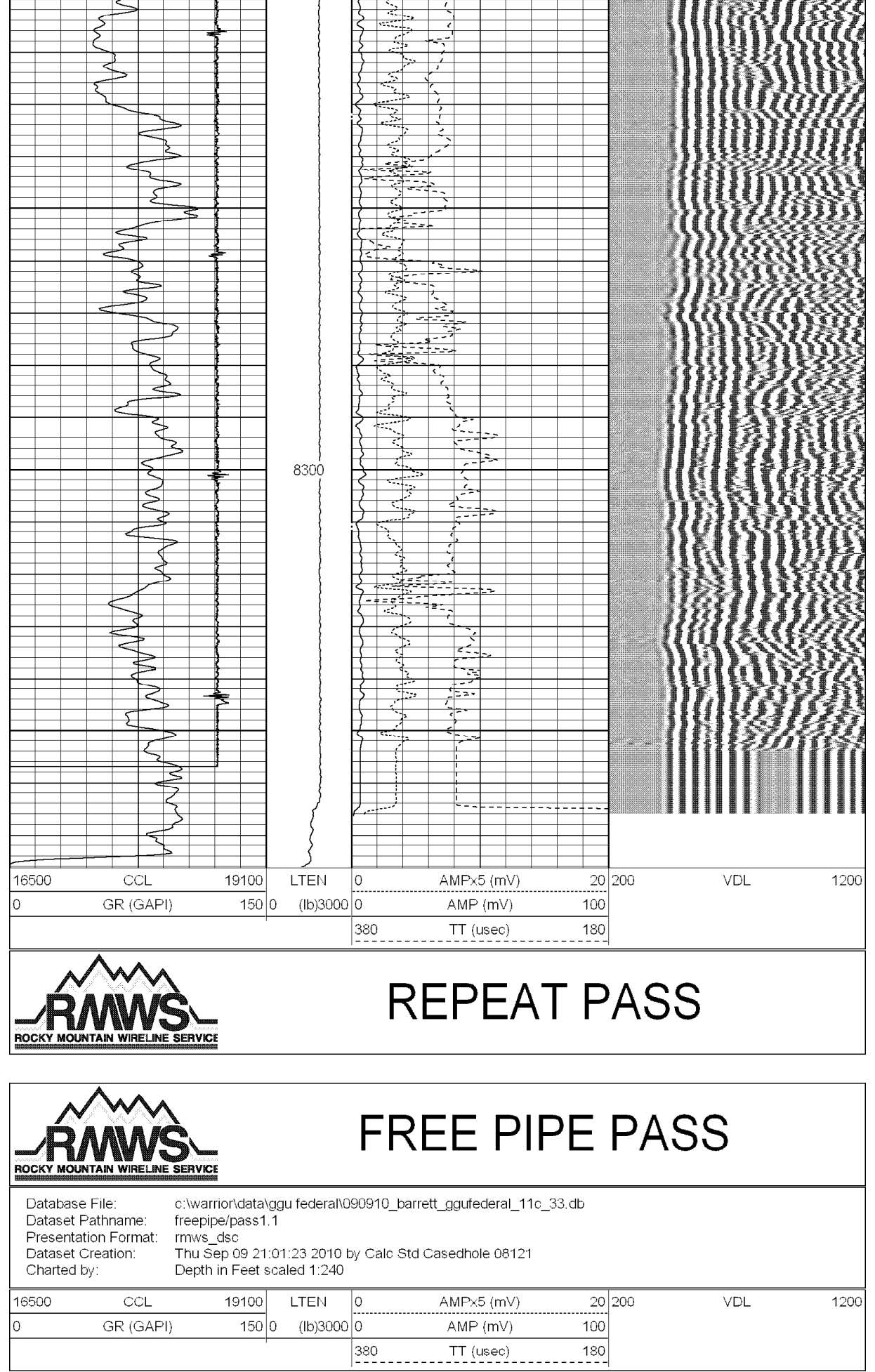
FREE PIPE PASS

Database File: c:\warrior\data\ggu federal\090910_barrett_ggufederal_11c_33.db
Dataset Pathname: freepipe/pass1.1
Presentation Format: rmws_dsc
Dataset Creation: Thu Sep 09 21:01:23 2010 by Calc Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240



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FREE PIPE PASS

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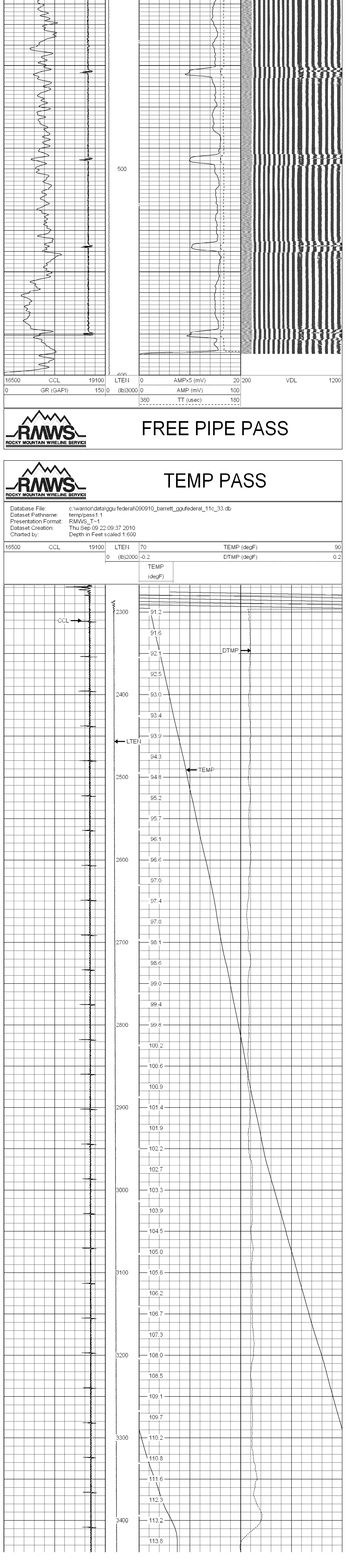
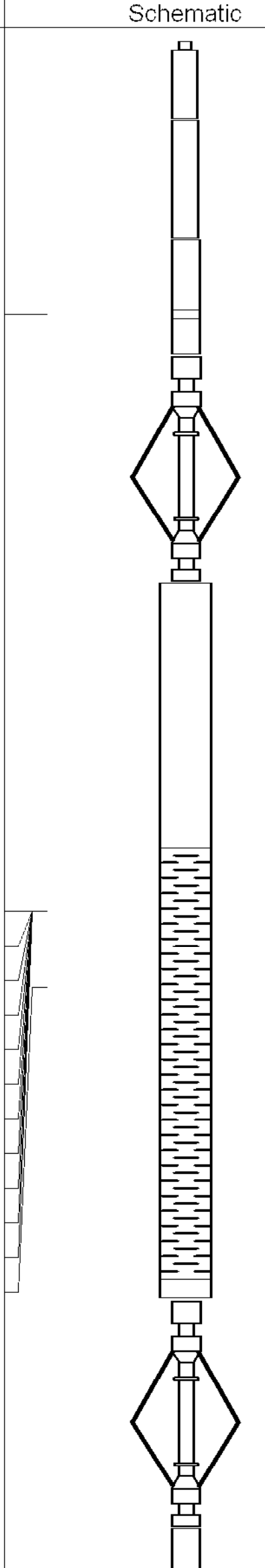
TEMP PASS

Database File: c:\warrior\data\ggu federal\090910_barrett_ggufederal_11c_33.db
Dataset Pathname: temp/pass1.1
Presentation Format: RMWS_T~1
Dataset Creation: Thu Sep 09 22:09:37 2010
Charted by: Depth in Feet scaled 1:600



TEMP PASS

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-002 (217219) Crossover Ultrawire Toolbus To Ultralink	1.58	1.69	6.50
CCL	19.20		CCL-015 (216529) Casing Collar Locator	1.54	1.69	9.00
			PRC-022 (215770) 6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX	3.00	2.38	21.40
WVF3FT WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 CBLTEMP CBLROT WVF5FT	11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 10.32		RBT-004 (1122) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00
			PRC-022 (215771) 6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX	3.00	2.38	21.40
GR	1.76		PGR-020 (217692) Production Gamma Ray	1.93	1.69	9.50
TEMP TSTAMP ITEMPX HVOLTX	0.37 0.00 0.00 0.00		PRT-016 (217894) Platinum Resistance Thermometer	1.04	1.69	6.00
			BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset:	090910_barrett_ggufederal_11c_33.db: field/well/main/pass1.2
Total Length:	22.82 ft
Total Weight:	217.00 lb
O.D.:	3.13 in

Company	BILL BARRETT CORPORATION
Well	GGU FEDERAL 11C - 33 - 691
Field	GIBSON GULCH
County	GARFIELD
State	COLORADO