RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL
TEMPERATURE

Company	BILL BARRETT CORPORATION
Well	GGU FEDERAL 14B-28-691
Field	GIBSON GULCH
County	GARFIELD
State	COLORADO
API # :	05-045-18912

Location: SHL: 0379' FNL & 0272' FWL
BHL: 0490' FSL & 0664' FWL

Other Services
GAUGE RING
3.75"

SEC	TWP	RGE
33	6S	91W

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	7777'
Present Depth Driller	7682'
Depth Logger	7682'
Bottom Logged Interval	7682'
Top Log Interval	1500'
Fluid Level	SURFACE
Type Fluid	WATER
Max. Recorded Temp.	209.5°
Estimated Cement Top	2100'
Equipment Number	216
Location	GRAND JCT.
Recorded By	ESCANERO / HARRIS
Witnessed By	MR. BEAUXIS

Borehole Record				Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.750"	819'	5871'	9.625"	36#	SURFACE	819'
TWO	7.880"	5871'	7777'	4.5"	11.6#	SURFACE	7777'

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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: THIS LOG WAS DEPTH CORRELATED USING A WEATHERFORD NEUTRON LOG DATED 08-26-10
NOTE: 5" = 100'
CSG PSI = 0
SHORT JOINTS ARE AT 6112' TO 6133' AND 4454' TO 4476'

Calibration Report

Database File: e:\barrett\090910_bbc_federal_14b_28_691.db
Dataset Pathname: MAIN/pass2
Dataset Creation: Thu Sep 09 18:27:42 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: 217693
Tool Model: 020
Performed: Thu Sep 09 15:40:46 2010

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.1000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 1123
Tool Model: 004

Calibration Casing Diameter: 4.500 in
Calibration Depth: 356.067 ft

Master Calibration, performed Thu Sep 09 14:53:00 2010:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.007	0.747	0.000	81.196	109.831	-0.794
5FT	-0.001	0.880	0.000	81.196	92.152	0.091
S1	0.021	0.826	0.000	100.000	124.140	-2.559
S2	0.011	0.790	0.000	100.000	128.333	-1.410
S3	0.015	0.732	0.000	100.000	139.472	-2.111
S4	0.011	0.716	0.000	100.000	141.873	-1.555
S5	0.017	0.715	0.000	100.000	143.363	-2.499
S6	0.008	0.737	0.000	100.000	137.291	-1.118
S7	0.012	0.763	0.000	100.000	133.251	-1.631
S8	0.017	0.804	0.000	100.000	127.047	-2.106

Calibration Report

Serial Number: 1123
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: e:\barrett\090910_bbc_federal_14b_28_691.db
Dataset Pathname: MAIN/pass2
Presentation Format: rmws_dsc
Dataset Creation: Thu Sep 09 18:27:42 2010
Charted by: Depth in Feet scaled 1:240

20000 Collar Locator 17480	LTEN	0 AMP AMPLITUDE (mV) 20	200 VDL 1200	
0 Gamma Ray (GAPI) 150	0 (lb) 2000	0 AMPLITUDE (mV) 100		
		380 TRAVEL TIME (usec) 180		

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MAIN PASS

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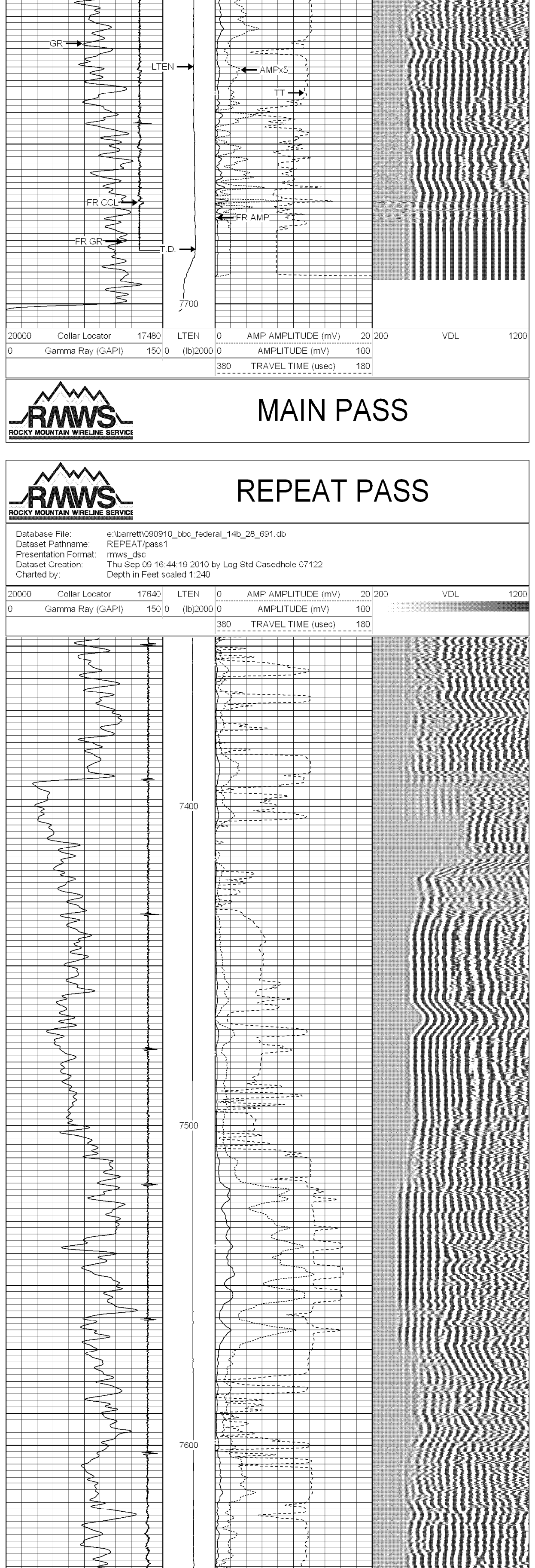
REPEAT PASS

Database File: e:\barrett\090910_bbc_federal_14b_28_691.db
Dataset Pathname: REPEAT/pass1
Presentation Format: rmws_dsc
Dataset Creation: Thu Sep 09 16:44:19 2010 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240



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REPEAT PASS

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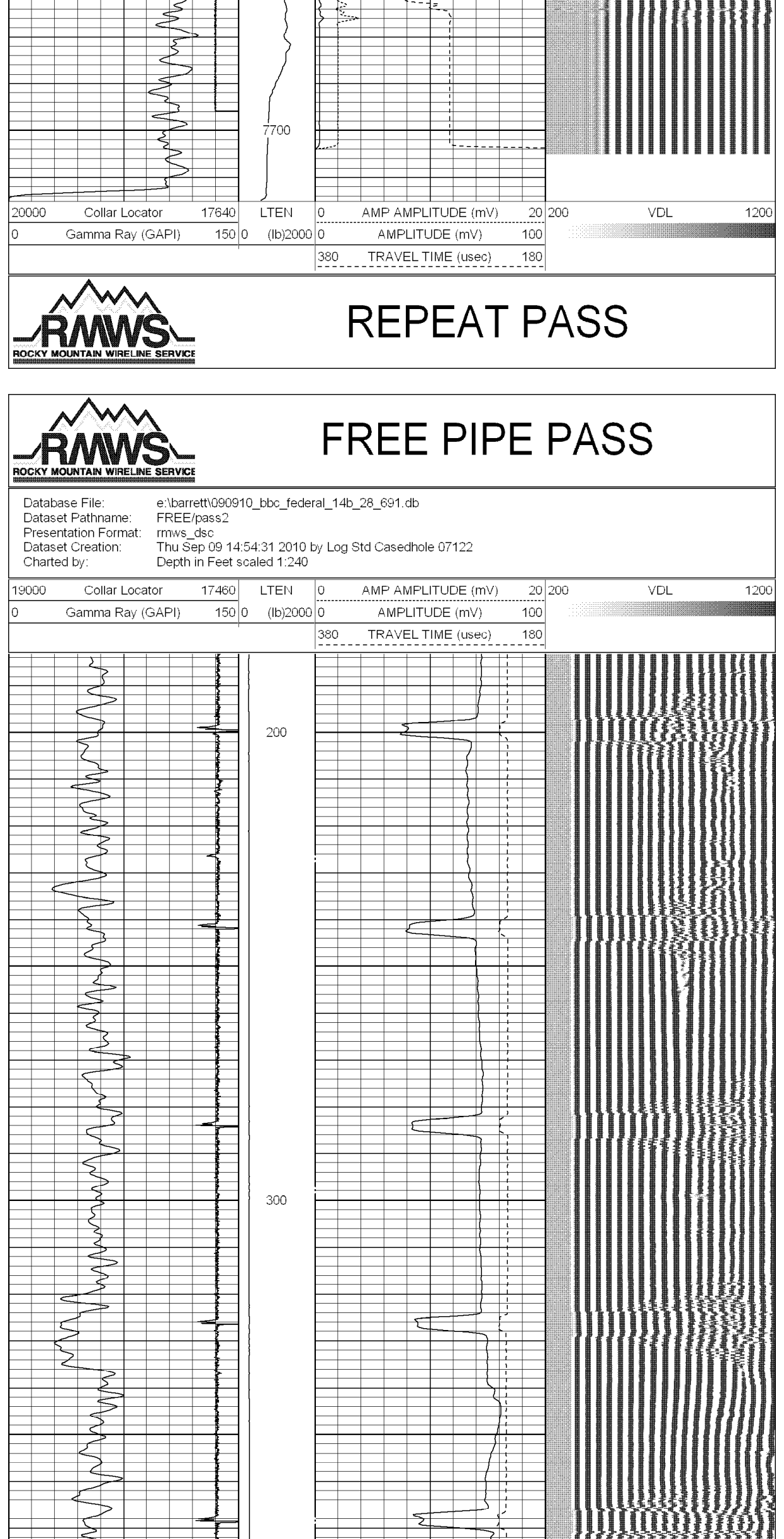
FREE PIPE PASS

Database File: e:\barrett\090910_bbc_federal_14b_28_691.db
Dataset Pathname: FREE/pass2
Presentation Format: rmws_dsc
Dataset Creation: Thu Sep 09 14:54:31 2010 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240



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FREE PIPE PASS

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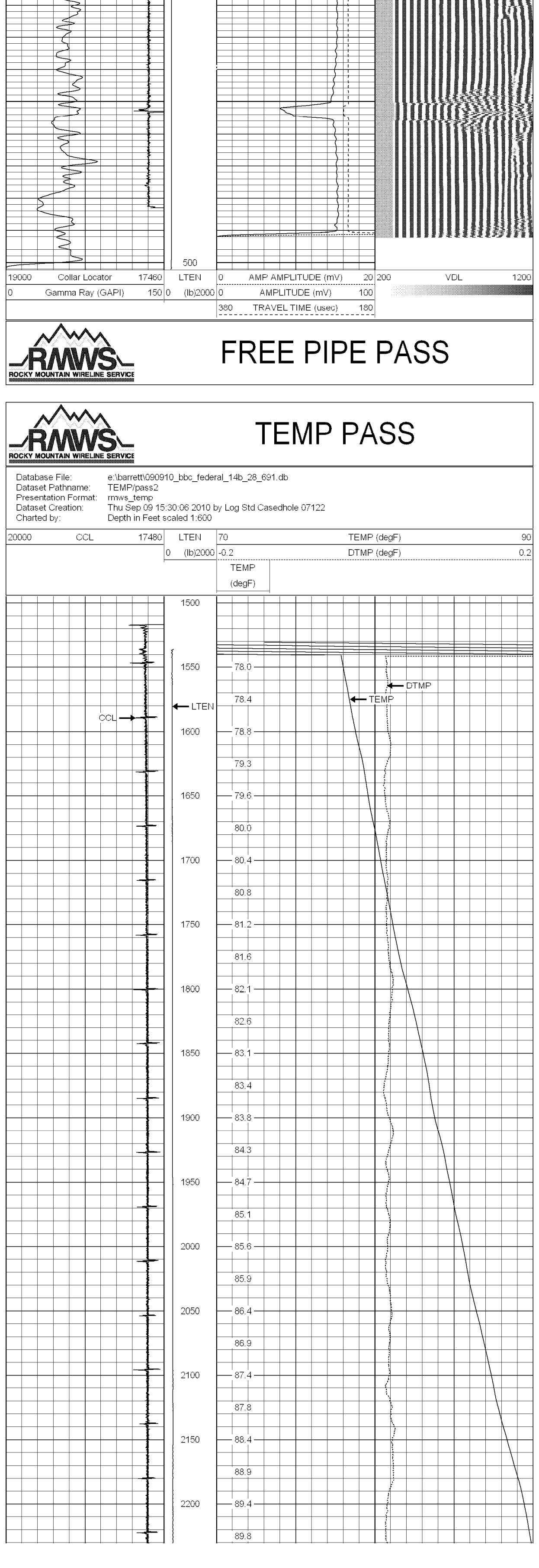
TEMP PASS

Database File: e:\barrett\090910_bbc_federal_14b_28_691.db
Dataset Pathname: TEMP/pass2
Presentation Format: rmws_temp
Dataset Creation: Thu Sep 09 15:30:06 2010 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:600



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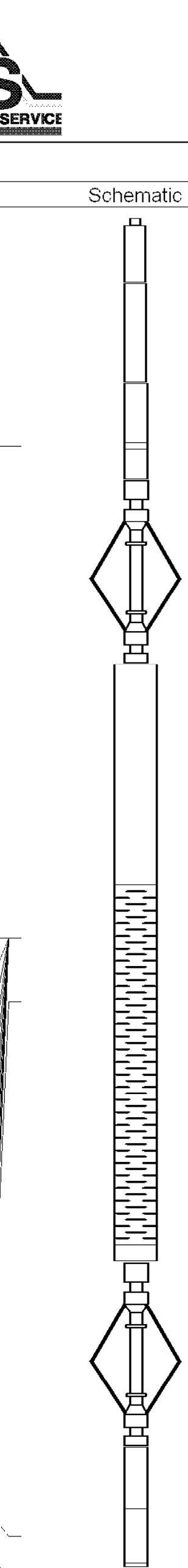
TEMP PASS

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	19.00		CCL-015 (214436) Casing Collar Locator	1.54	1.69	9.00
			PRC-062 (C-1099) 4ARM 2 3/4" ROLLER	2.90	2.75	34.00
WVF3FT WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 CBLTEMP CBLROT WVF5FT	11.22 11.22 11.22 11.22 11.22 11.22 11.22 11.22 11.22 11.22 11.22 10.22		RBT-004 (1123) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00
			PRC-062 (C-1100) 4ARM 2 3/4" ROLLER	2.90	2.75	34.00
GR	1.76		PGR-020 (217693) Production Gamma Ray	1.93	1.69	9.50
TEMP	0.37		PRT-016 (217894) Platinum Resistance Thermometer	1.04	1.69	6.00
TSTAMP ITEMPX HVOLTX	0.00 0.00 0.00		BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset:	090910_bbc_federal_14b_28_691.db: field/well/MAIN/pass2
Total Length:	22.62 ft
Total Weight:	242.20 lb
O.D.	3.13 in

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Well	GGU FEDERAL 14B-28-691
Field	GIBSON GULCH
County	GARFIELD
State	COLORADO