ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG GAMMARAY / CCL TEMPERATURE

Company	BILL BARRETT CORPORATION
Well	GGU FEDERAL 41C-29-691
Field	GIBSON GULCH
County	GARFIELD
State	COLORADO

Location: API # : 05-045-19806
SHL: 1230' FNL & 1293' FEL
BHL: 0492' FNL & 0664' FEL

Other Services
3.75" GAUGE RING

SEC 29 TWP 6S RGE 91W

Permanent Datum	G.L.	Elevation	6104'
Log Measured From	K.B.	Ft Above PD	23'
Drilling Measured From	K.B.		

Elevation
K.B. 6127'
D.F. 6126'
G.L. 6104'

Date	04-01-2011
Run Number	ONE
Depth Driller	7485'
Present Depth Driller	7432'
Depth Logger	7432'
Bottom Logged Interval	7431'
Top Log Interval	1750'
Fluid Level	SURFACE
Type Fluid	WATER
Max. Recorded Temp.	210.5° F
Estimated Cement Top	2760'
Equipment Number	216
Location	GRAND JCT.
Recorded By	HARRIS
Witnessed By	MR. ETTER

	Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.75"	761'	5300'	9.625"	36#	SURFACE	761'
TWO	7.88"	5300'	7485'	4.5"	11.6#	SURFACE	7485'

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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 TO THE WEATHERFORD OH LOG DATED 1-20-2011
SHORT JOINTS AT 4361' - 4382' AND 5993' - 6014'
MAIN PASS 5" = 100'
TEMP PASS 2" = 100'
CSG PSI = 0

Calibration Report

Database File: C:\Warrior\Data\MDP 11\040111_bbc_FEDERAL_41C.db
Dataset Pathname: MAIN/pass2
Dataset Creation: Sat Apr 02 16:00:39 2011

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:	AJD00166	
Tool Model:	020	
Performed:	Thu Jul 30 19:58:24 2009	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.2000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	1122	
Tool Model:	004	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	112.813	ft

Master Calibration, performed Fri Apr 01 14:42:01 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.000	1.044	0.000	81.196	77.743	0.000
5FT	0.000	0.999	0.000	81.196	81.276	0.000
S1	0.000	1.087	0.000	100.000	91.963	0.000
S2	0.000	1.101	0.000	100.000	90.840	0.000
S3	0.000	1.044	0.000	100.000	95.794	0.000
S4	0.000	1.029	0.000	100.000	97.178	0.000
S5	0.000	1.022	0.000	100.000	97.883	0.000
S6	0.000	1.028	0.000	100.000	97.279	0.000
S7	0.000	1.066	0.000	100.000	93.766	0.000
S8	0.000	1.090	0.000	100.000	91.774	0.000

Calibration Report

Serial Number: 1122
Tool Model: 004
Performed:

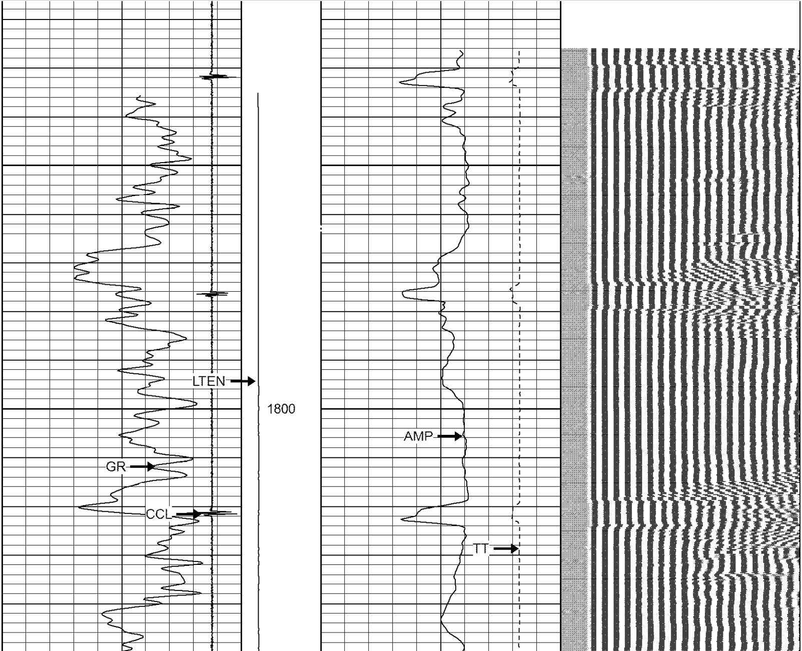
	Reference (degF)	Reading ()
Low:	0.000	0.000
High:	1.000	1.000
	Gain = 1.000	Offset= 0.000

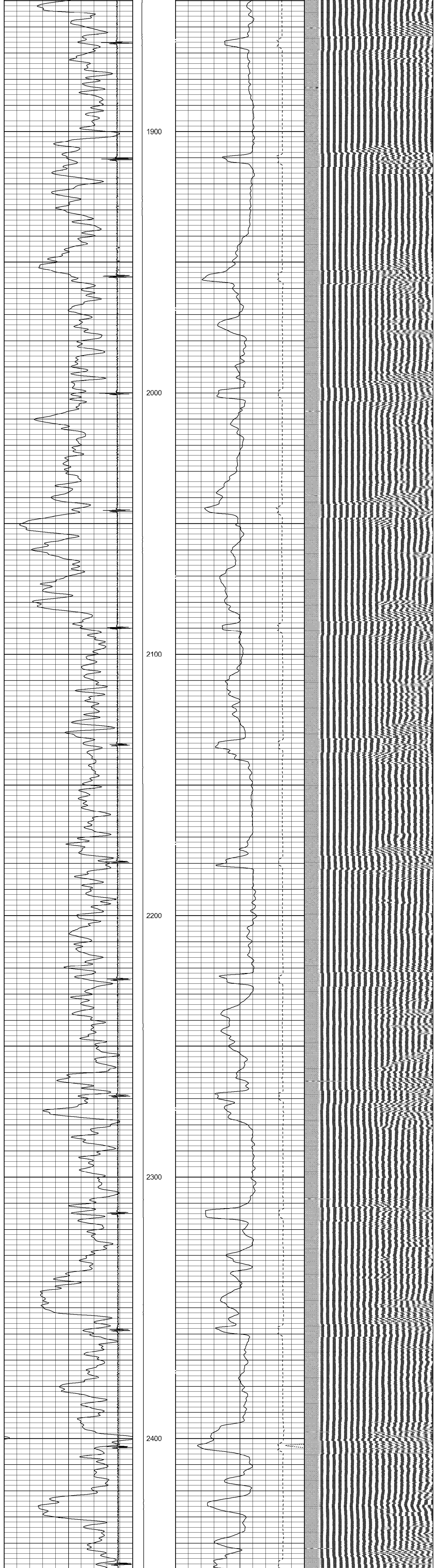
ROCKY MOUNTAIN WIRELINE SERVICE

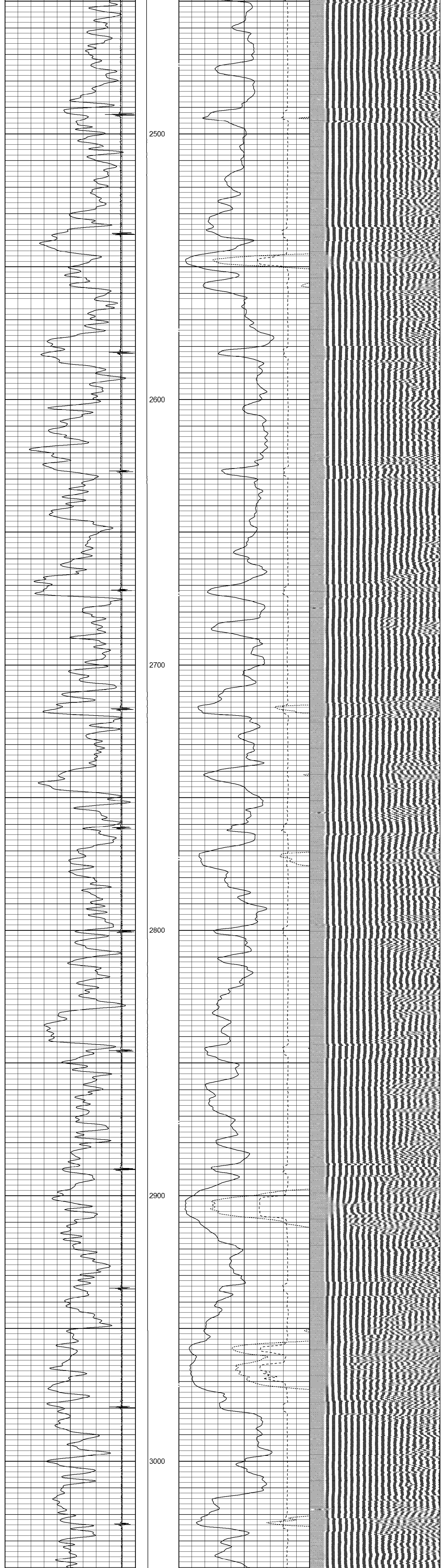
MAIN PASS

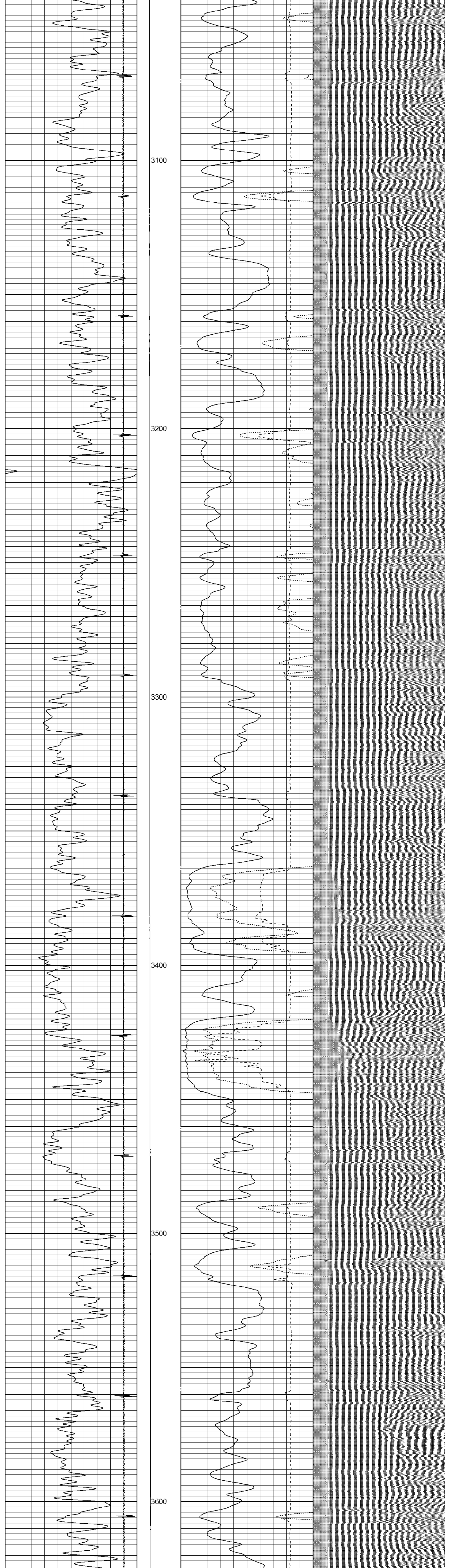
Database File: c:\warrior\data\mdp 11\040111_bbc_federal_41c.db
Dataset Pathname: MAIN/pass2
Presentation Format: rmws_dsc
Dataset Creation: Sat Apr 02 16:00:39 2011
Charted by: Depth in Feet scaled 1:240

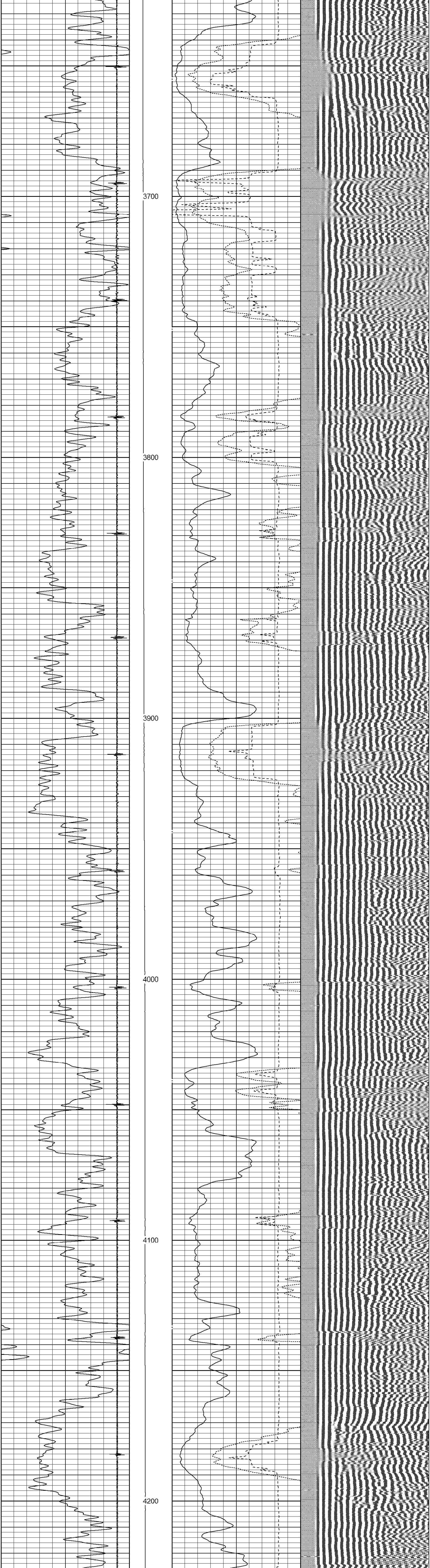
14000 Collar Locator 19600	LTEN	0 AMP AMPLITUDE (mV) 20	200 VDL 1200
0 Gamma Ray (GAPI) 150	0 (lb) 2000	0 AMPLITUDE (mV) 100	
		380 TRAVEL TIME (usec) 180	

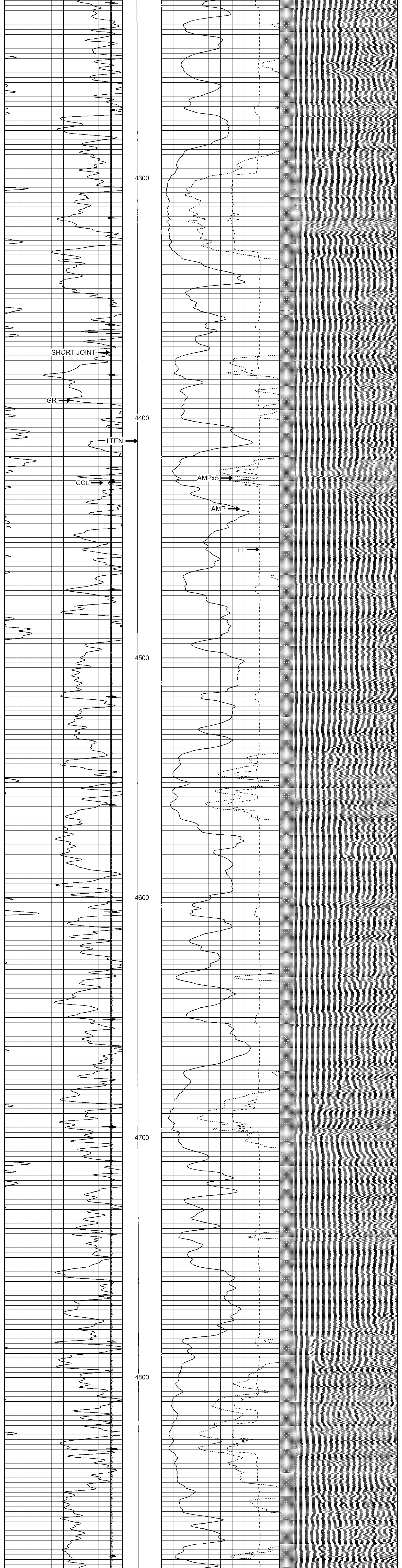


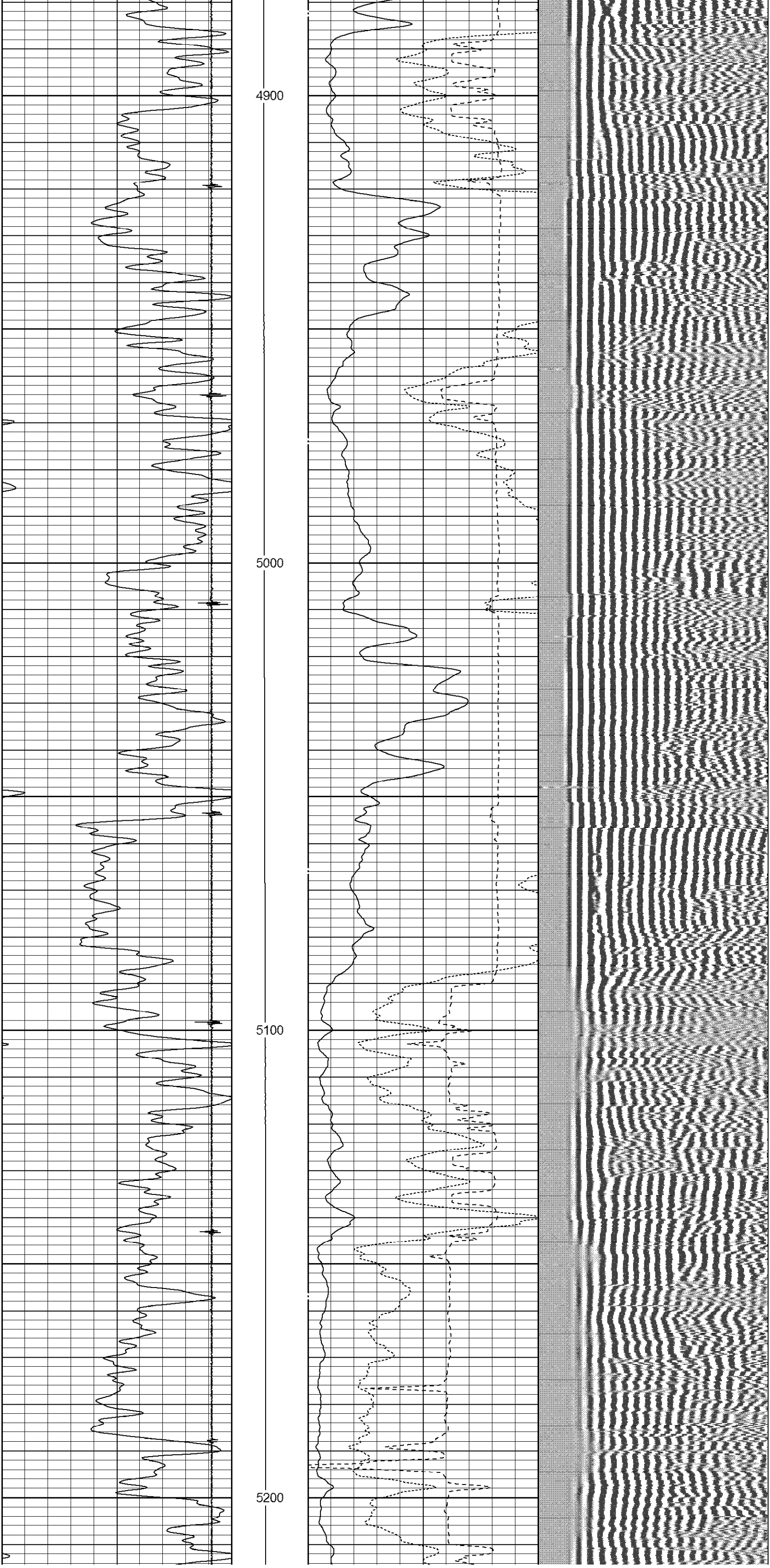


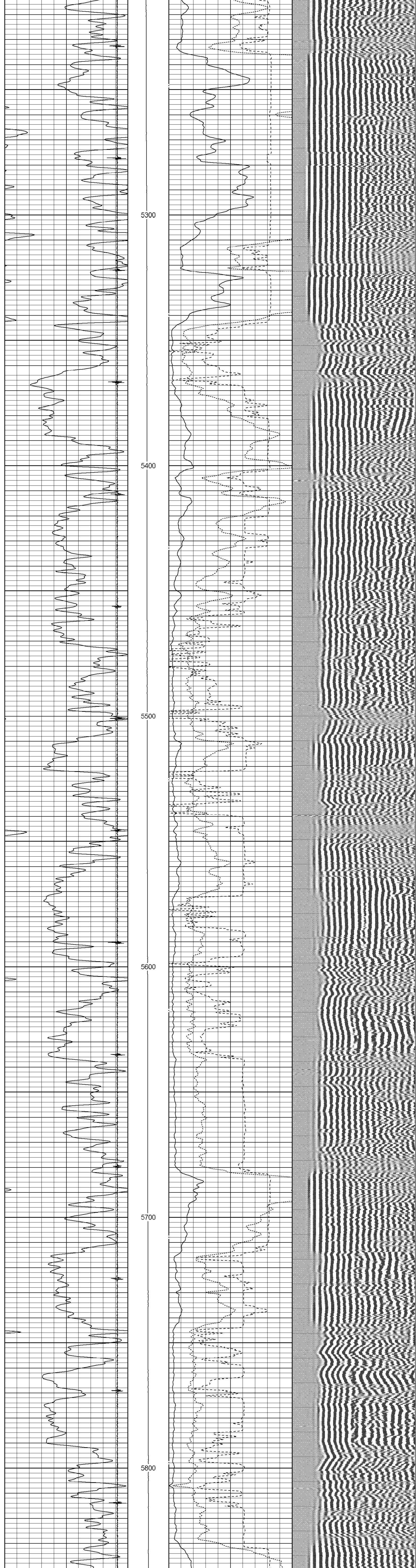


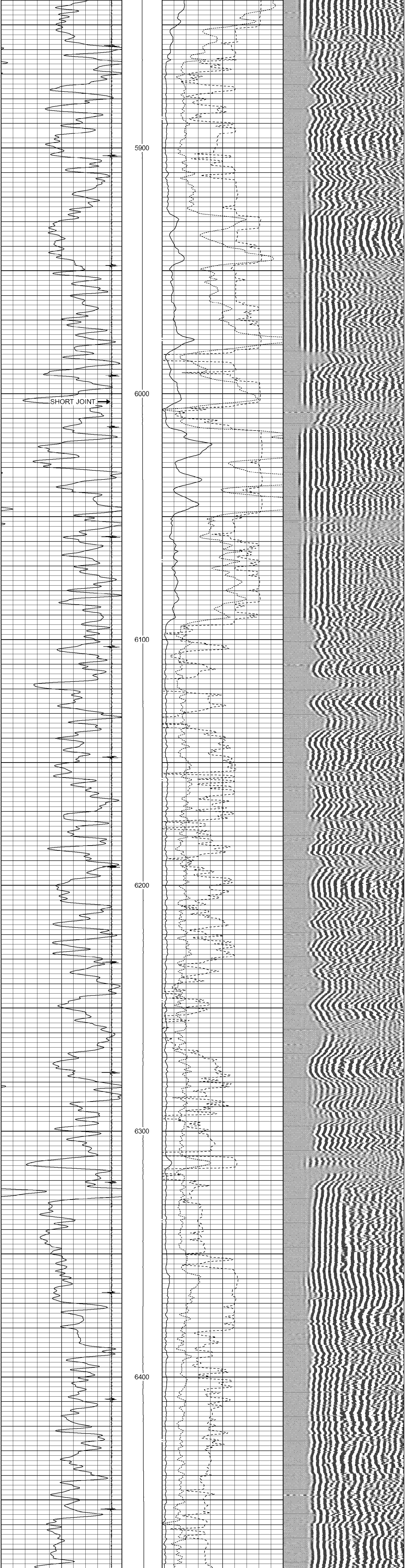


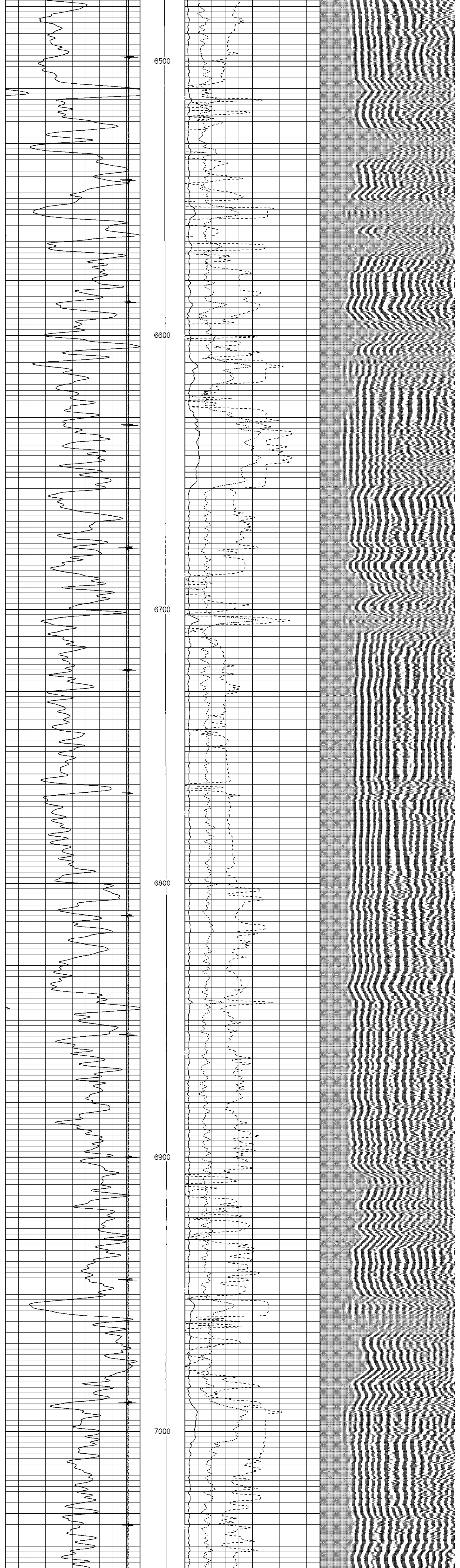


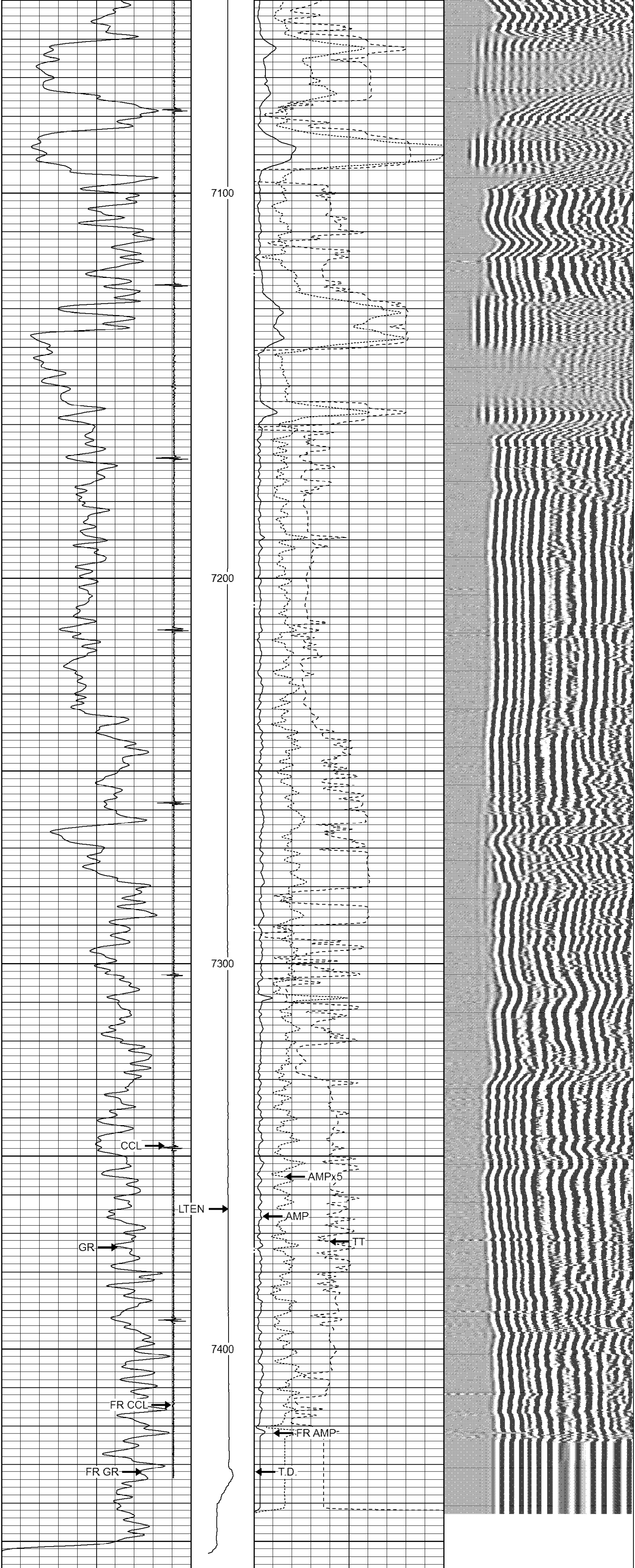












14000 Collar Locator 19600	LTEN	0 AMP AMPLITUDE (mV) 20	200 VDL 1200
0 Gamma Ray (GAPI) 150	0 (lb) 2000	0 AMPLITUDE (mV) 100	
		380 TRAVEL TIME (usec) 180	

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS

RMWS
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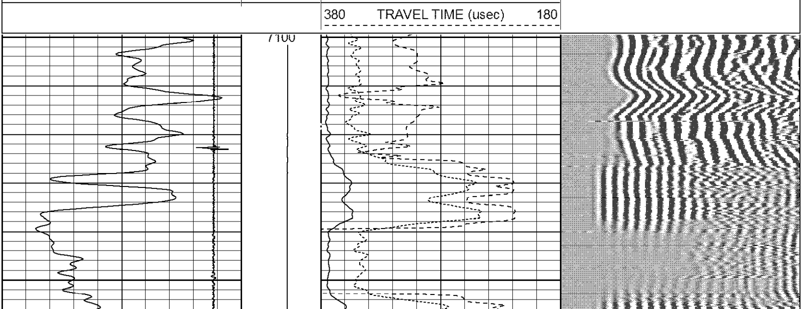
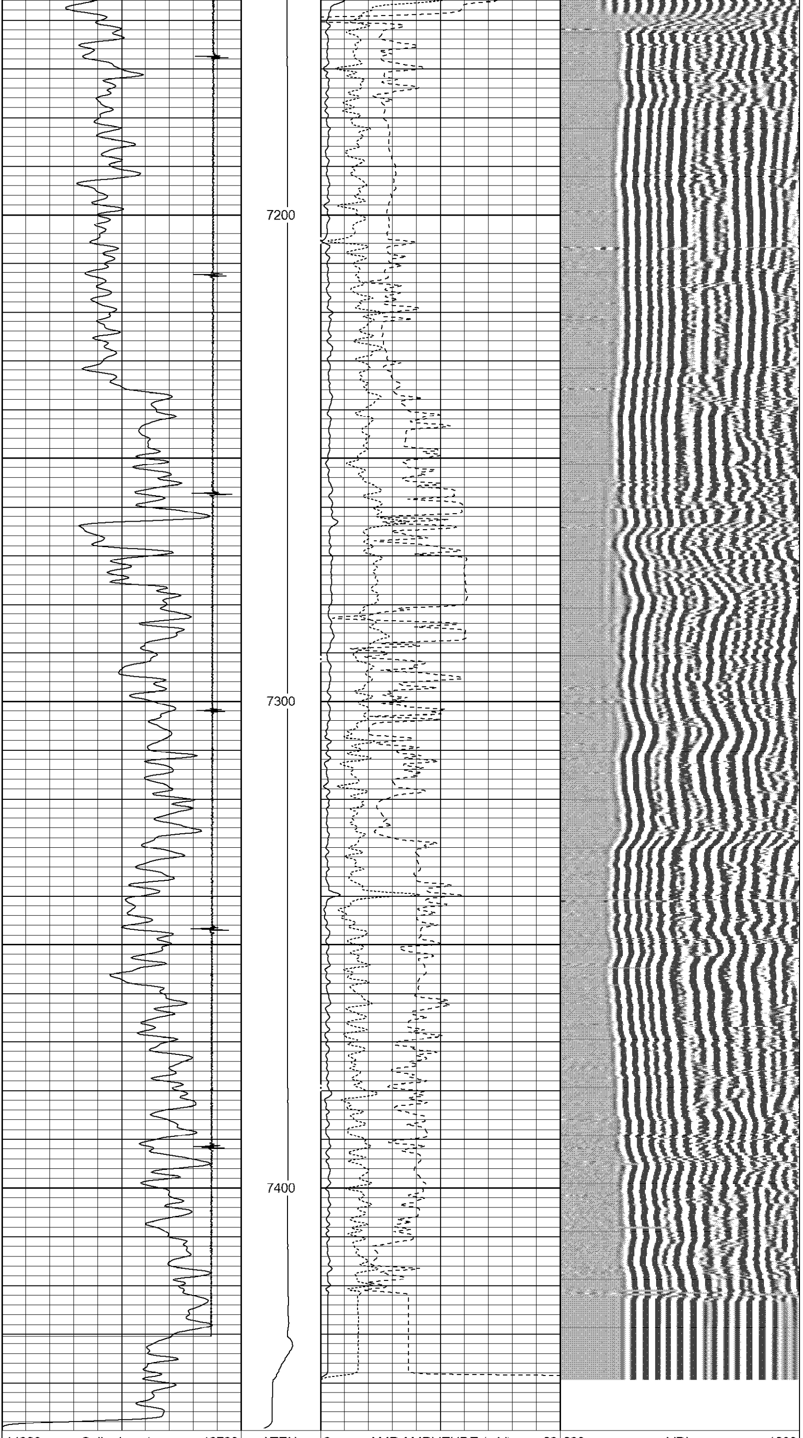
REPEAT PASS

Database File: c:\warrior\data\mdp 11\040111_bbc_federal_41c.db
Dataset Pathname: REPEAT/pass1
Presentation Format: rmws_dsc
Dataset Creation: Fri Apr 01 16:54:29 2011 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

14000 Collar Locator 19700	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	





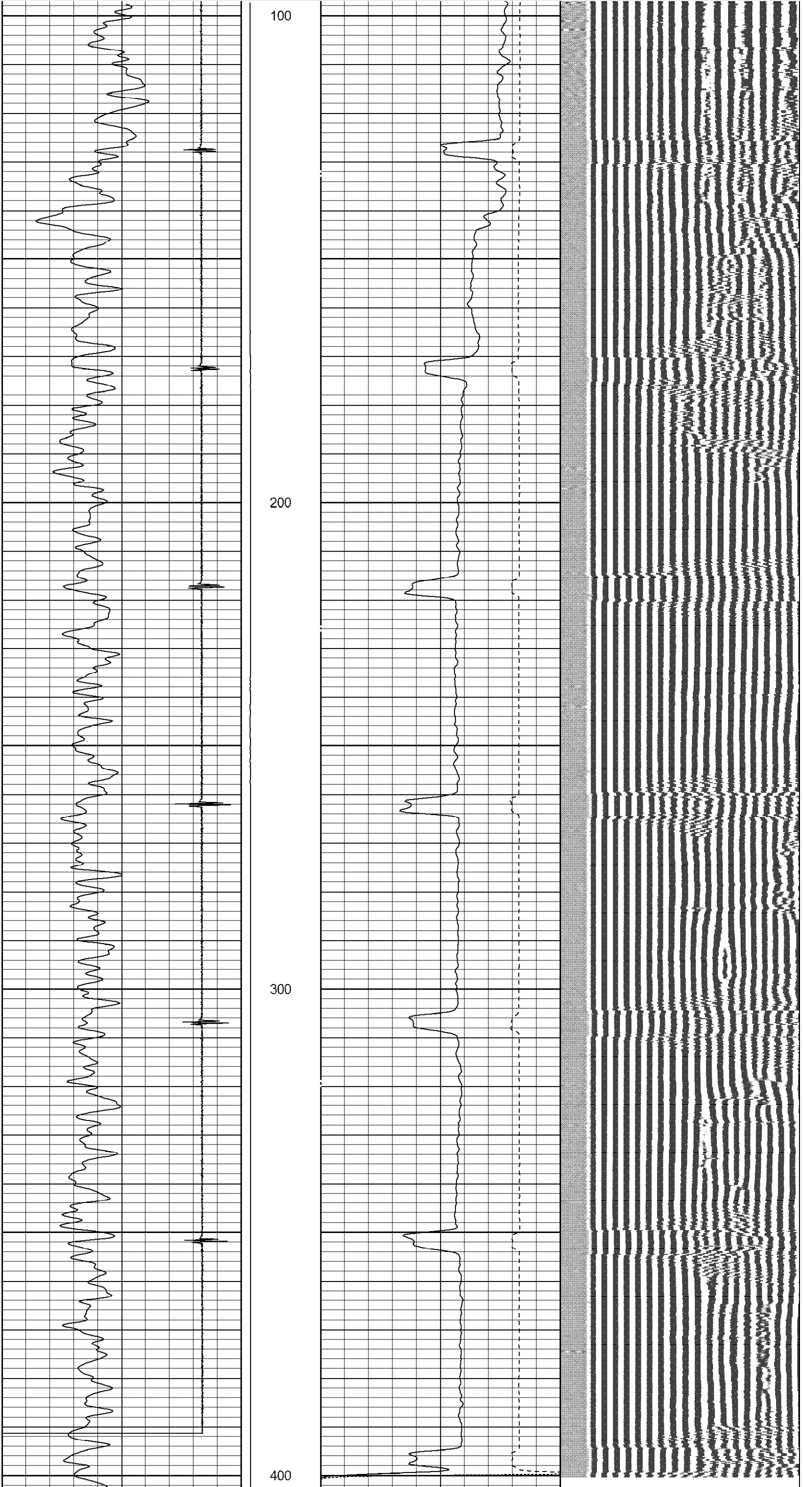
14000 Collar Locator 19700	LTEN	0 AMP AMPLITUDE (mV) 20	200 VDL 1200
0 Gamma Ray (GAPI) 150	0 (lb)2000	0 AMPLITUDE (mV) 100	
		380 TRAVEL TIME (usec) 180	

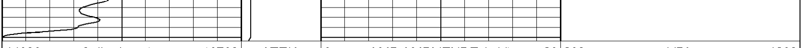
REPEAT PASS

FREE PIPI PASS

Database File: c:\warrior\data\mdp 11\040111_bbc_federal_41c.db
Dataset Pathname: FREE/pass1
Presentation Format: rmws_dsc
Dataset Creation: Fri Apr 01 16:26:44 2011 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

14000 Collar Locator 19700	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	





14000 Collar Locator 19700	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	

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

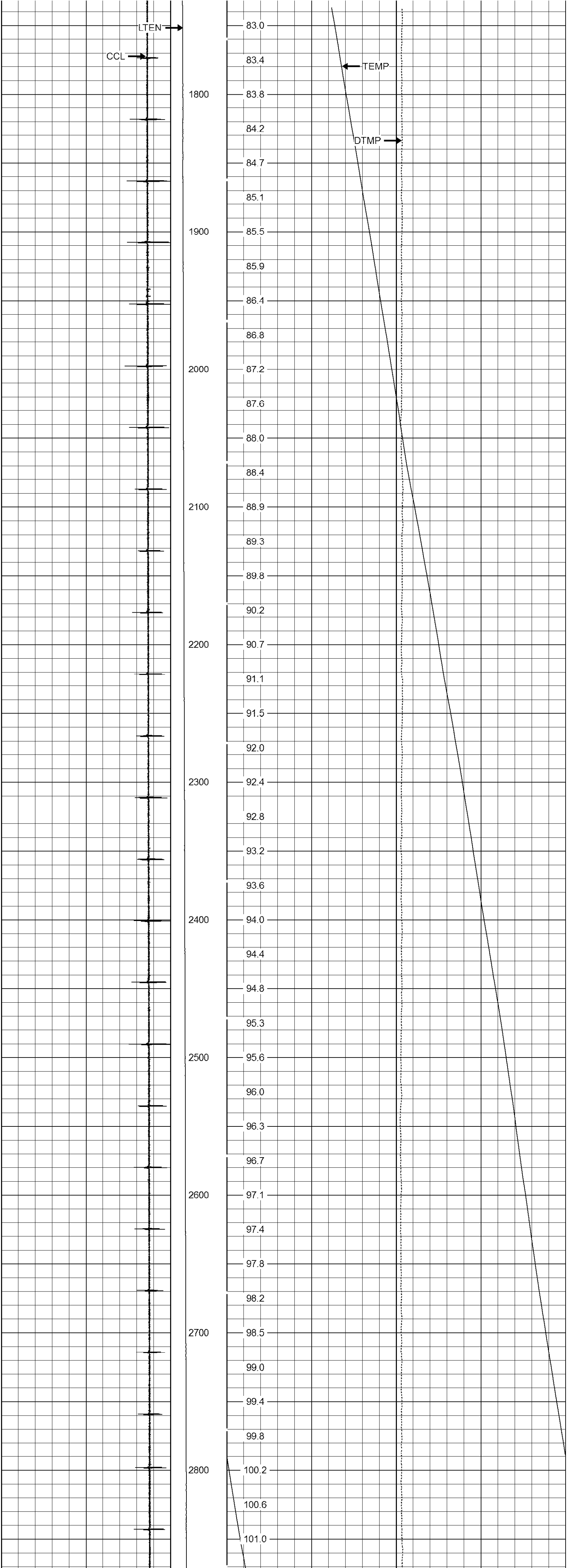
FREE PIPE PASS

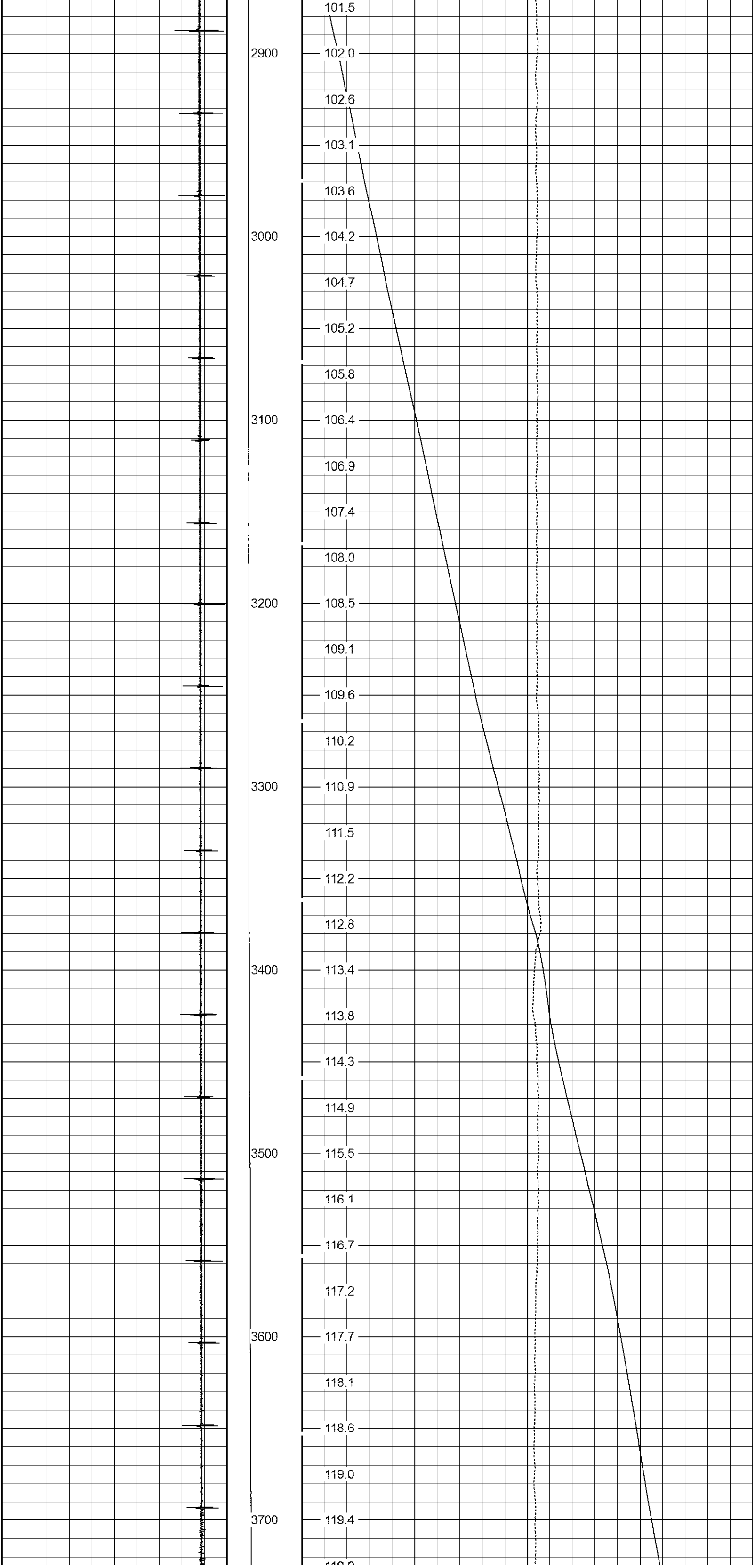
RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

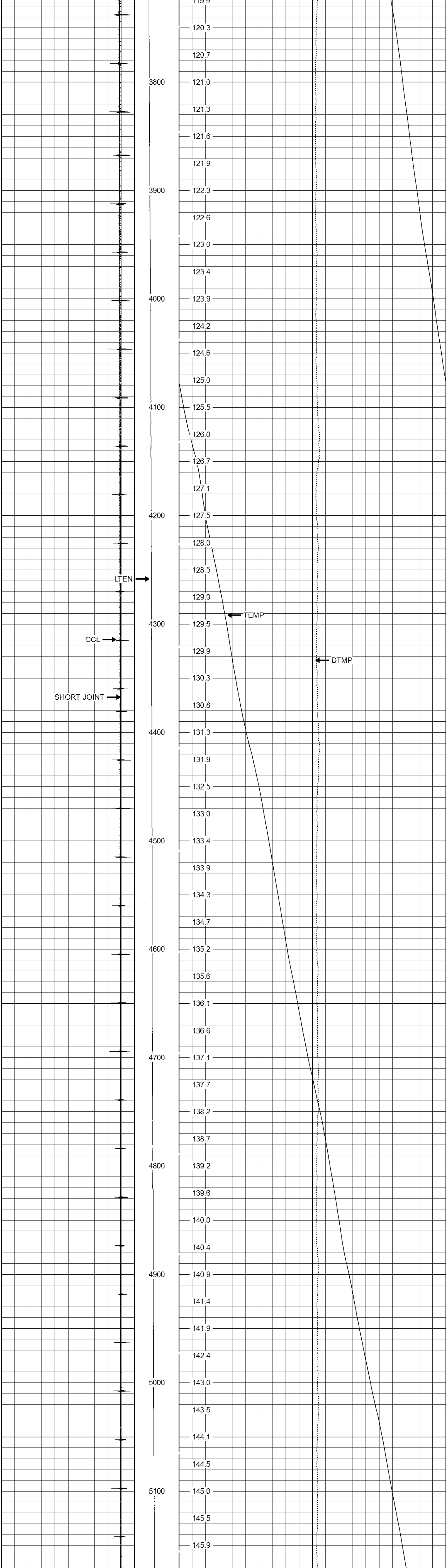
TEMP PASS

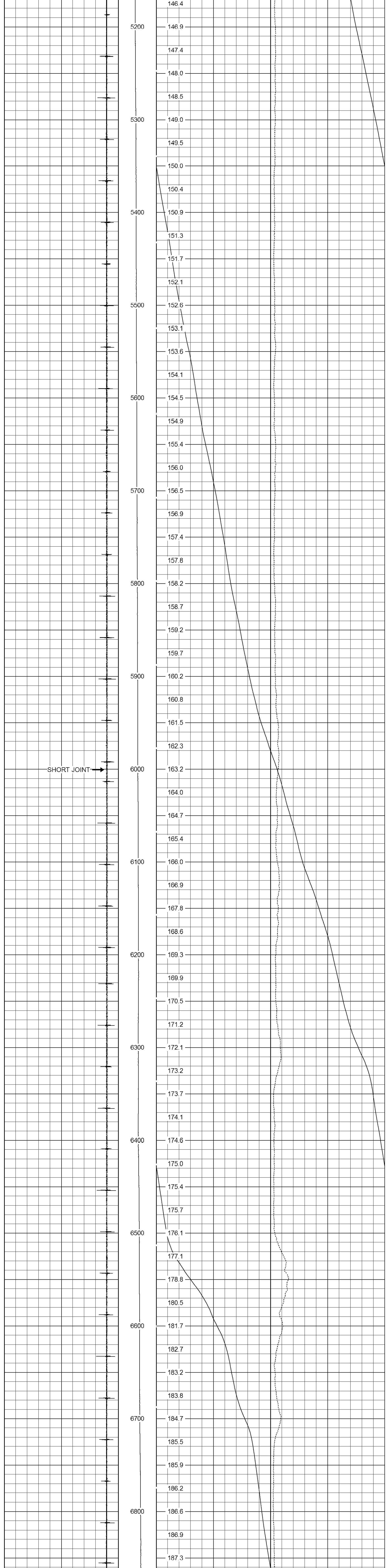
Database File:	c:\warrior\data\mdp 11\040111_bbc_federal_41c.db
Dataset Pathname:	MAIN/pass1
Presentation Format:	rmws_tem
Dataset Creation:	Fri Apr 01 17:01:10 2011 by Log Std Casedhole 07122
Charted by:	Depth in Feet scaled 1:600

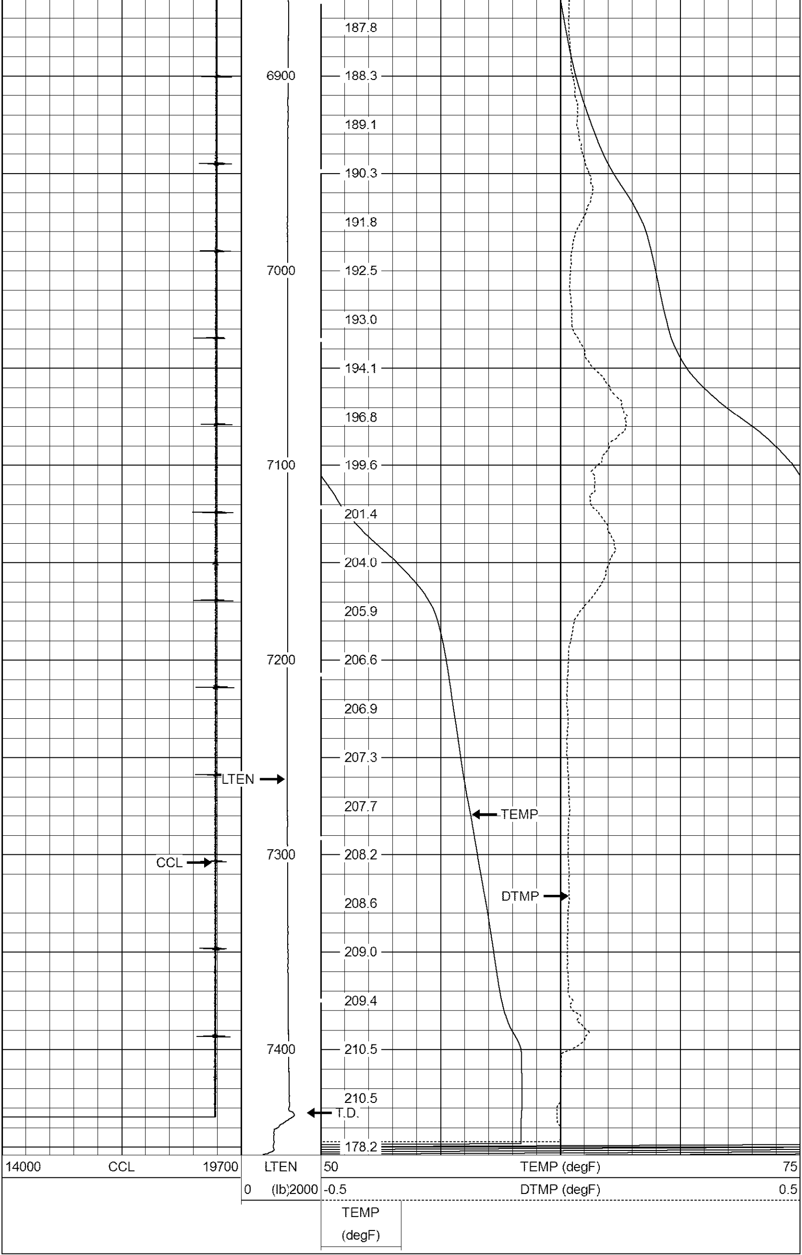
14000 CCL 19700	LTEN	TEMP (degF)	50 … 75
	0 (lb) 2000	DTMP (degF)	-0.5 … 0.5
		TEMP (degF)	





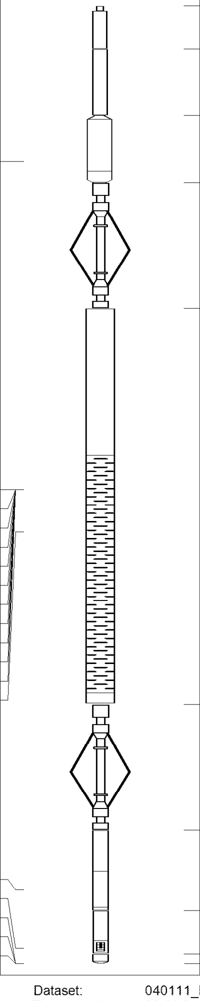






ROCKY MOUNTAIN WIRELINE SERVICE

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 (217217) Crossover Ultrawire Toolbus To Ultralink	1.58	1.69	6.50
CCL	19.17		CCL-028 (1037) CCL UW 3 1/8" SONDEX	1.61	3.13	36.00
			PRC-022 (215771) (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 (215770) (6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX)	3.00	2.38	21.40
GR	1.76		PGR-020 (AJD00166) 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:	040111_bbc_FEDERAL_41C.db: field/well/MAIN/pass2
Total Length:	22.90 ft
Total Weight:	244.00 lb
O.D.	3.13 in

ROCKY MOUNTAIN WIRELINE SERVICE

Company	BILL BARRETT CORPORATION
Well	GGU FEDERAL 41C-29-691
Field	GIBSON GULCH
County	GARFIELD
State	COLORADO