RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL
TEMPERATURE

Company	**BILL BARRETT CORPORATION**		
Well	**FEDERAL 32D - 20 - 691**		
Field	**GIBSON GULCH**		
County	**GARFIELD**	State	**COLORADO**

Location: API # : 05 - 045 - 19680
SHL: 2600' FNL & 1750' FEL
BHL: 1420' FNL & 1992' FEL
SEC 20 TWP 6S RGE 91W

Other Services
3.75" GAUGE RING

Permanent Datum	G.L.	Elevation	5530'
Log Measured From	K.B.	Ft Above PD	23'
Drilling Measured From	K.B.		

Elevation
K.B. 5553'
D.F. 5552'
G.L. 5530'

Date	09 - 06 - 2011		
Run Number	ONE		
Depth Driller	7875'		
Present Depth Driller	NA		
Depth Logger	7802'		
Bottom Logged Interval	7801'		
Top Log Interval	3500'		
Fluid Level	SURFACE		
Type Fluid	WATER		
Max. Recorded Temp.	206.1° F		
Estimated Cement Top	4150'		
Equipment Number	208		
Location	GRAND JCT.		
Recorded By	INGRAM	COVINGTON	
Witnessed By	MR. GARY ETTER		

	Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.750"	854'	5270'	9.625"	36#	SURFACE	854'
TWO	7.880"	5270'	7875'	4.5"	11.6#	SURFACE	7875'

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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 WEATHERFORD OPEN HOLE LOG DATED 7-12-11
SHORT JOINT: 5736' TO 5771' & 6801' TO 6834'
MAIN PASS 5" = 100'
TEMP PASS 2" = 100'
CSG PSI = STATIC

Calibration Report

Database File: C:\Warrior\Data\MDP13\090611_barrett_federal_32d-20-691.db
Dataset Pathname: MAIN/pass1.2
Dataset Creation: Tue Sep 06 15:43:17 2011 by Calc Std Casedhole 10121

Temperature Calibration Report

Serial Number: 216611
Tool Model: 016
Performed: Fri Oct 24 13:21:19 2008

Point #	Reading		Reference	
1	11136.00	cps	63.28	degF
2	17489.00	cps	104.70	degF
3	28778.00	cps	175.60	degF
4	40401.00	cps	250.00	degF
5	51742.00	cps	321.75	degF
6	57178.00	cps	355.95	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Serial Number: 217692
Tool Model: 020
Performed: Wed Apr 06 13:50:00 2011

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:	127.350	ft

Master Calibration, performed Tue Sep 06 13:26:26 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.004	0.895	1.000	81.196	79.460	0.995
5FT	-0.001	0.880	1.000	81.196	74.311	0.995
S1	0.004	0.891	0.000	100.000	112.762	-0.478
S2	0.004	0.859	0.000	100.000	116.914	-0.421
S3	0.007	0.829	0.000	100.000	121.697	-0.878
S4	0.005	0.872	0.000	100.000	115.372	-0.563
S5	0.006	0.924	0.000	100.000	108.955	-0.700
S6	0.006	0.961	0.000	100.000	104.704	-0.637
S7	0.007	0.938	0.000	100.000	107.493	-0.786
S8	0.007	0.900	0.000	100.000	111.992	-0.813

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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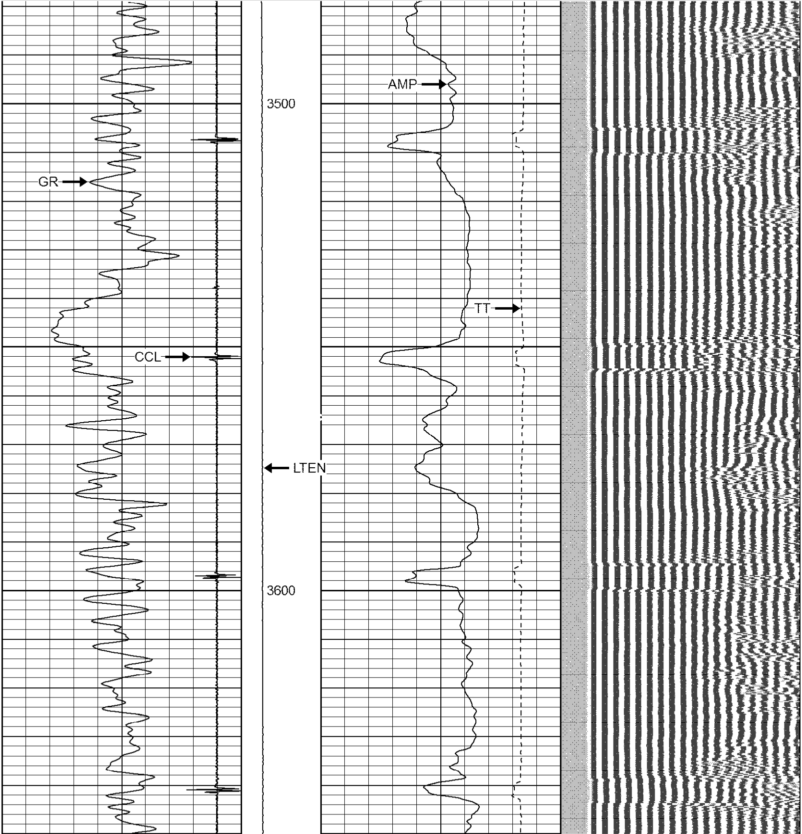
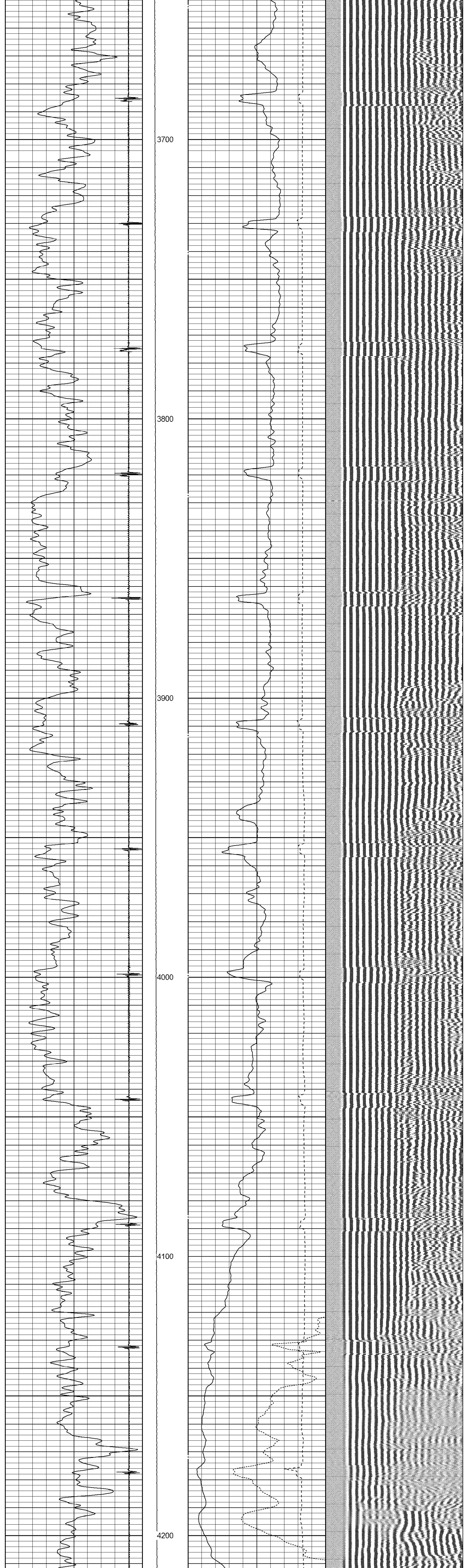
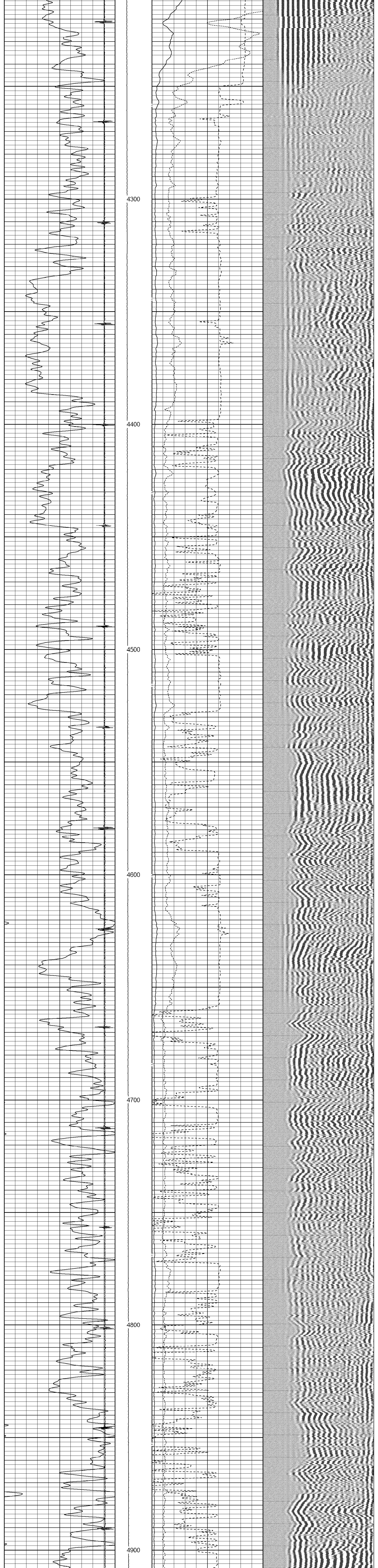
MAIN PASS

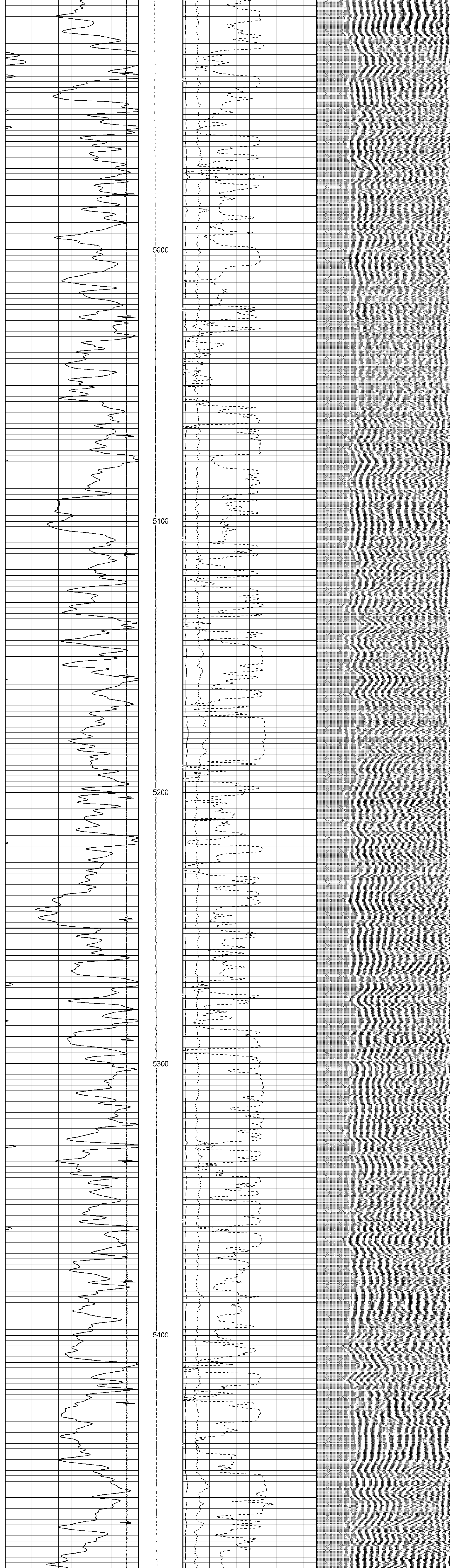
Database File: c:\warrior\data\mdp13\090611_barrett_federal_32d-20-691.db
Dataset Pathname: MAIN/pass1.2
Presentation Format: rmws_dsc
Dataset Creation: Tue Sep 06 15:43:17 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

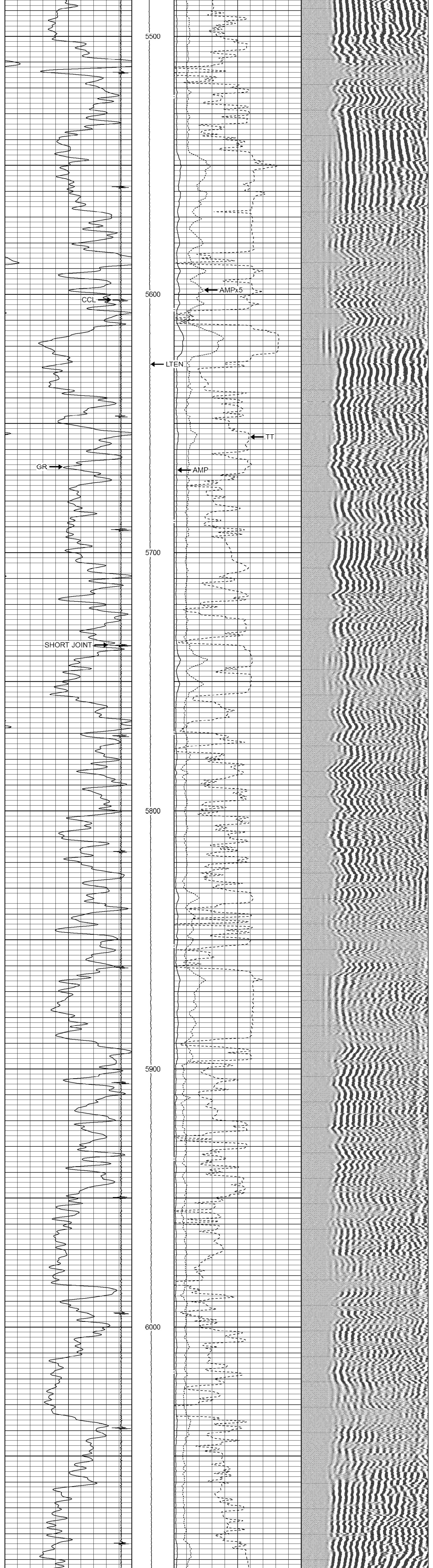
12500	CCL	19700	LTEN	0 AMPx5 (mV) 20	200	VDL 1200
0	GR (GAPI)	150	0 (lb) 3000	0 AMP (mV) 100		
				380 TT (usec) 180		

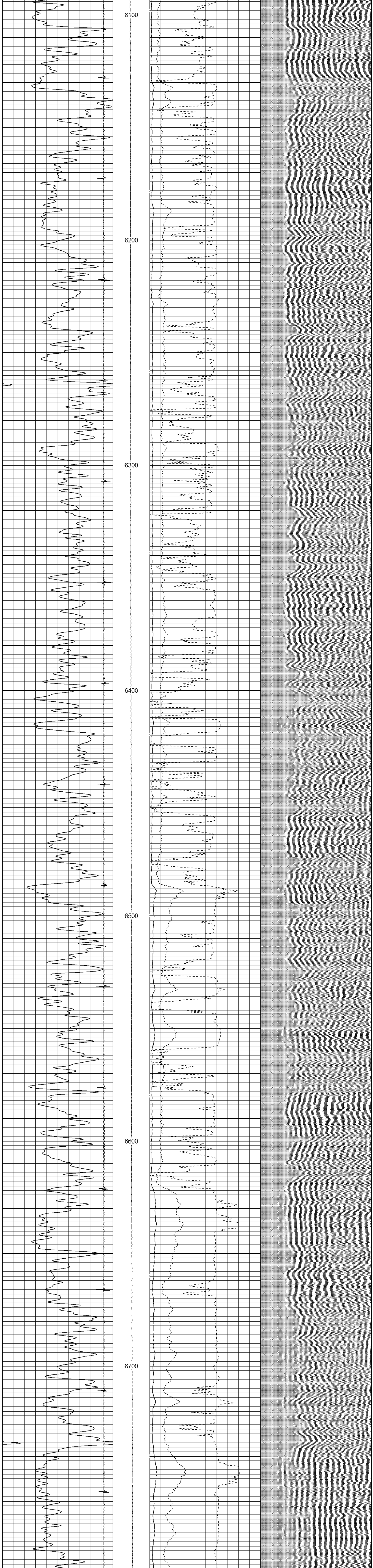


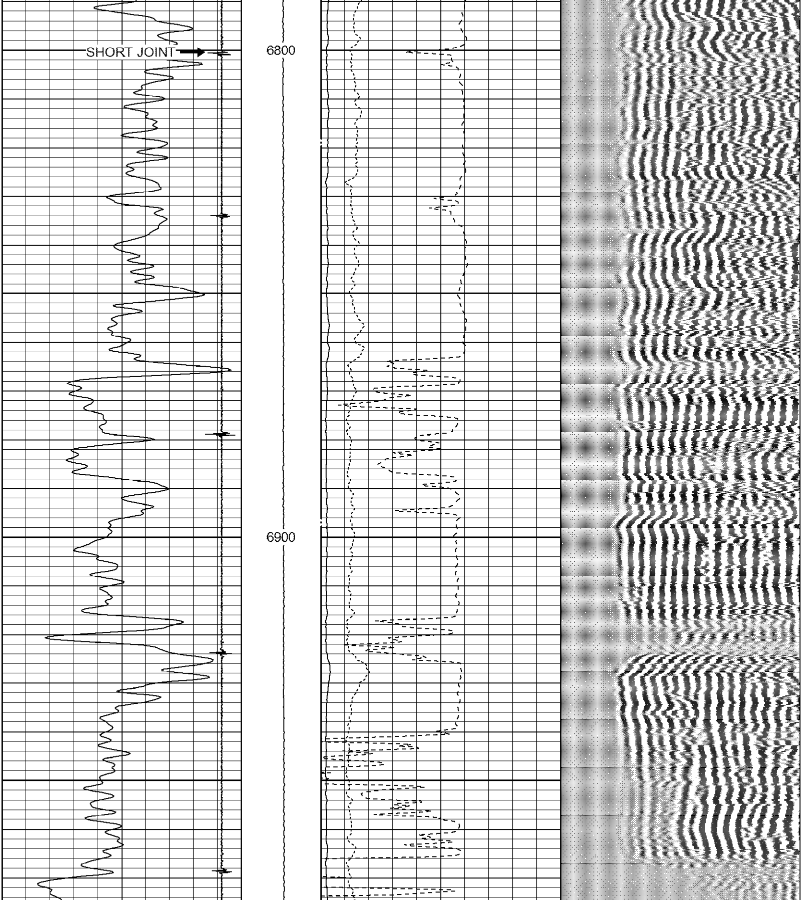


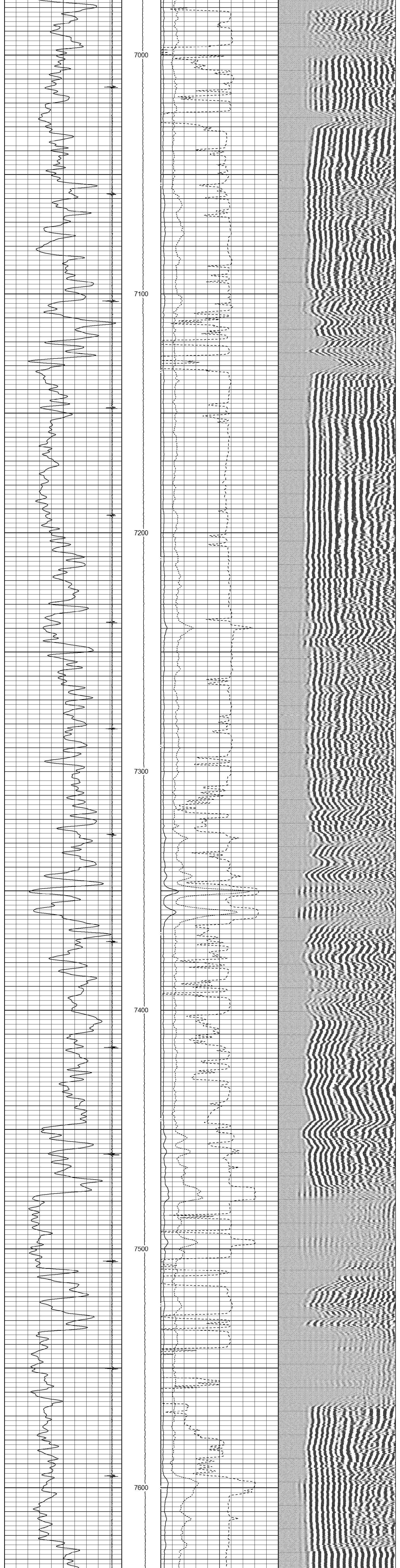


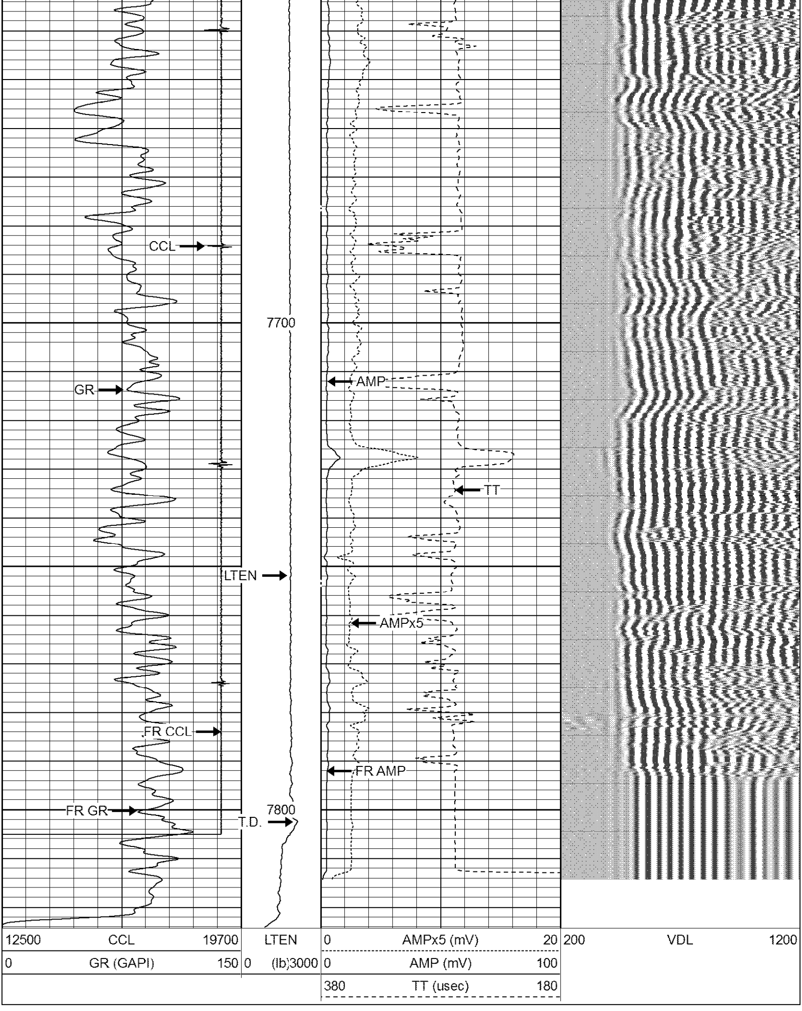












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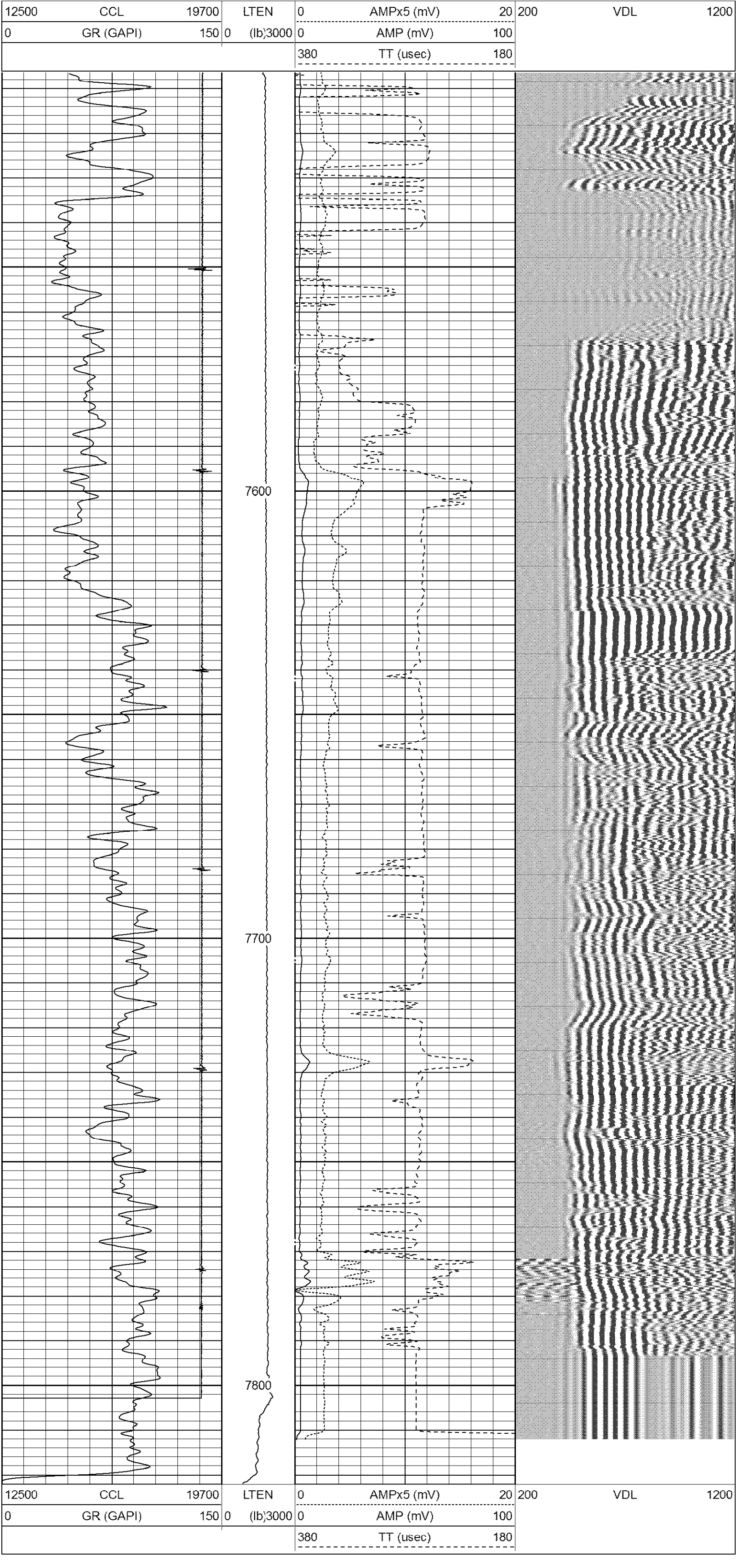
REPEAT PASS

Database File: c:\warrior\data\mdp13\090611_barrett_federal_32d-20-691.db
Dataset Pathname: REPEAT/pass1.2
Presentation Format: rmws_dsc
Dataset Creation: Tue Sep 06 15:51:57 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240



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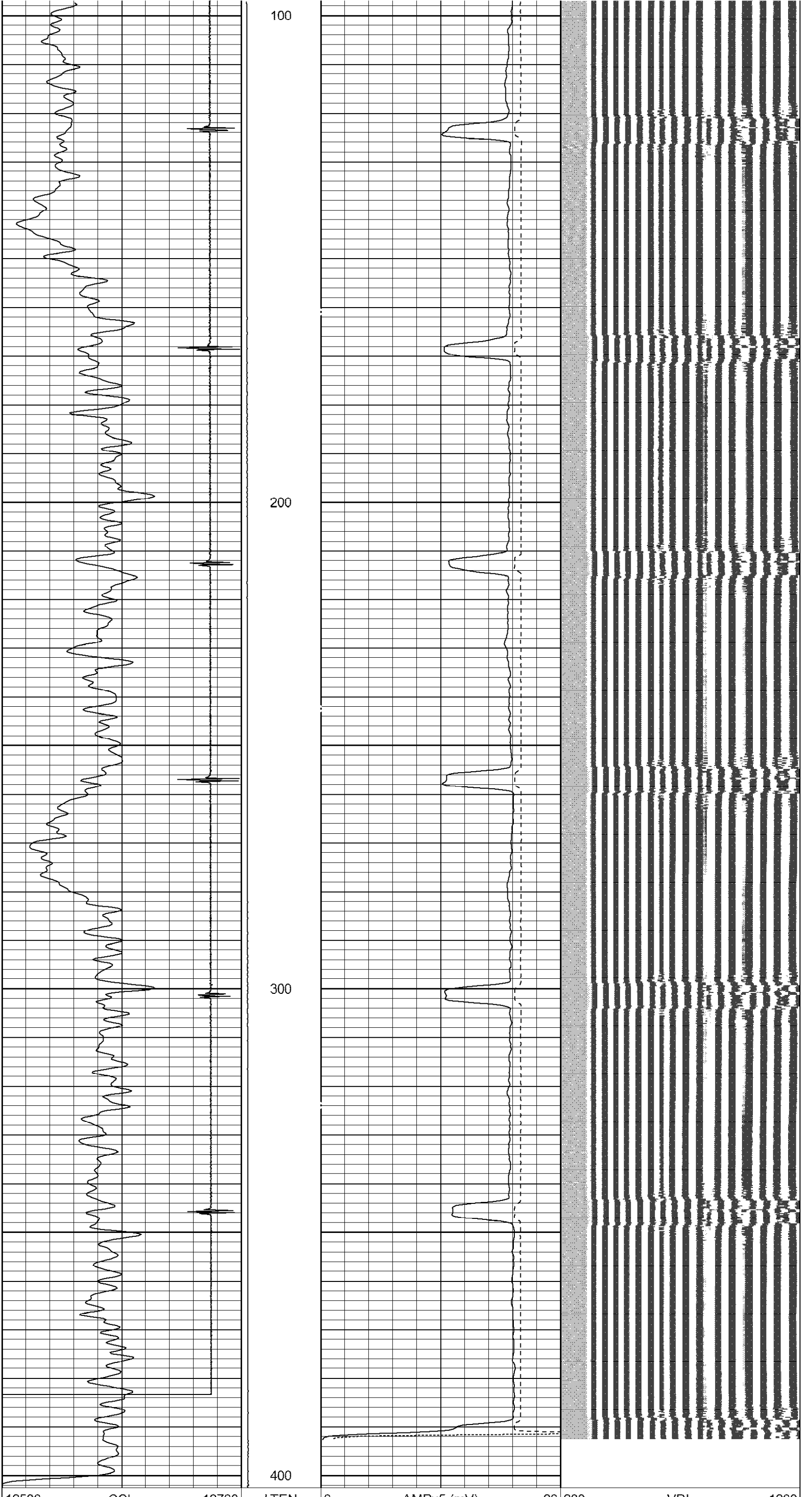
FREE PIPE PASS

Database File:	c:\warrior\data\mdp13\090611_barrett_federal_32d-20-691.db
Dataset Pathname:	FREEPIPE/pass1.1
Presentation Format:	rmws_dsc
Dataset Creation:	Tue Sep 06 15:42:00 2011 by Calc Std Casedhole 10121
Charted by:	Depth in Feet scaled 1:240

12500 CCL 19700	LTEN	0 AMPx5 (mV) 20	200 VDL 1200
0 GR (GAPI) 150	0 (lb)3000	0 AMP (mV) 100	
		380 TT (usec) 180	



12500 CCL 19700	LTEN	0 AMPx5 (mV) 20	200 VDL 1200
0 GR (GAPI) 150	0 (lb)3000	0 AMP (mV) 100	
		380 TT (usec) 180	

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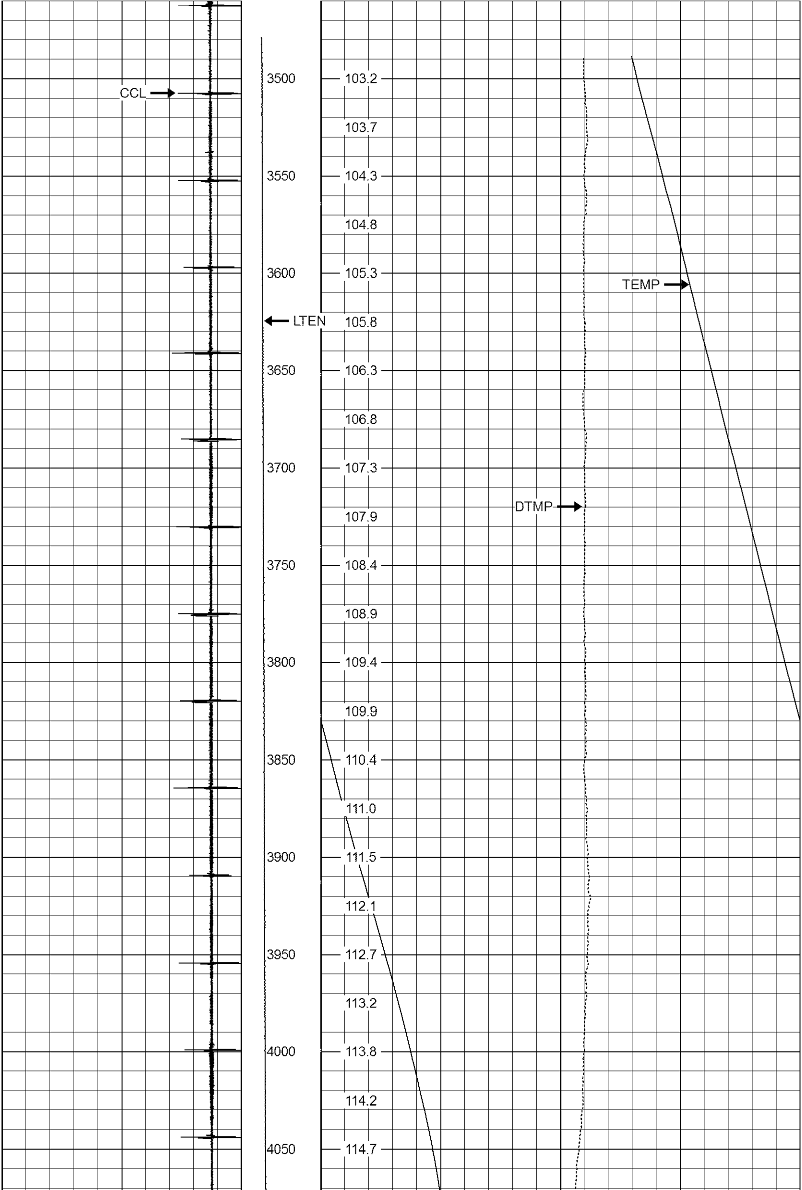
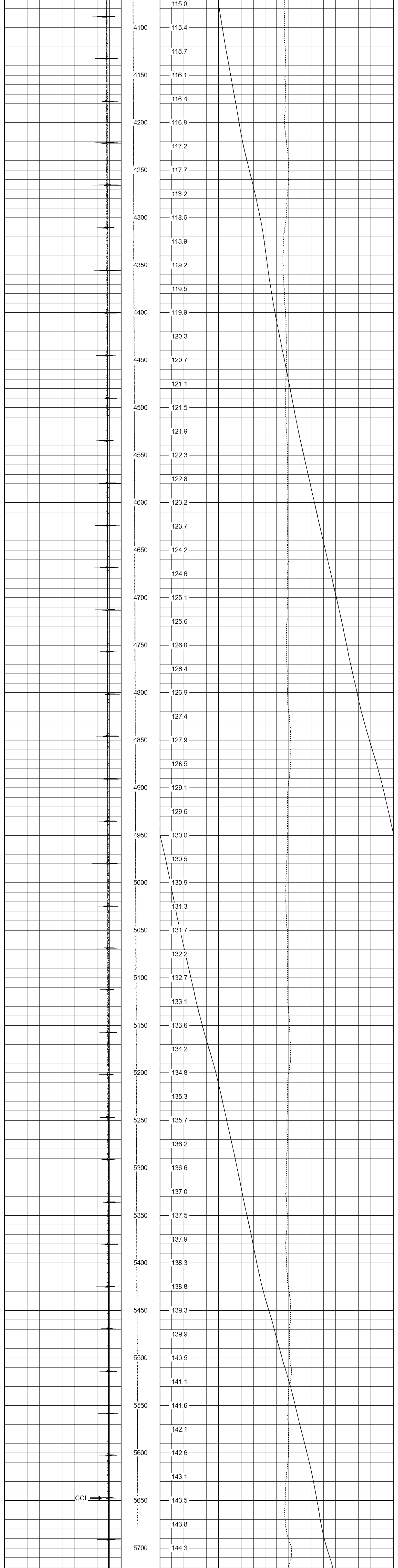
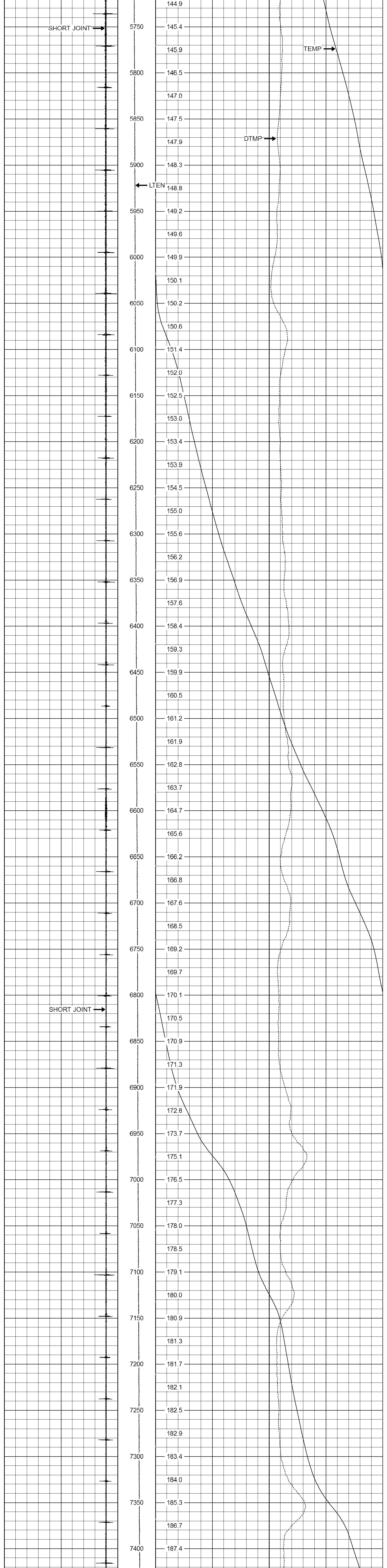
TEMP PASS

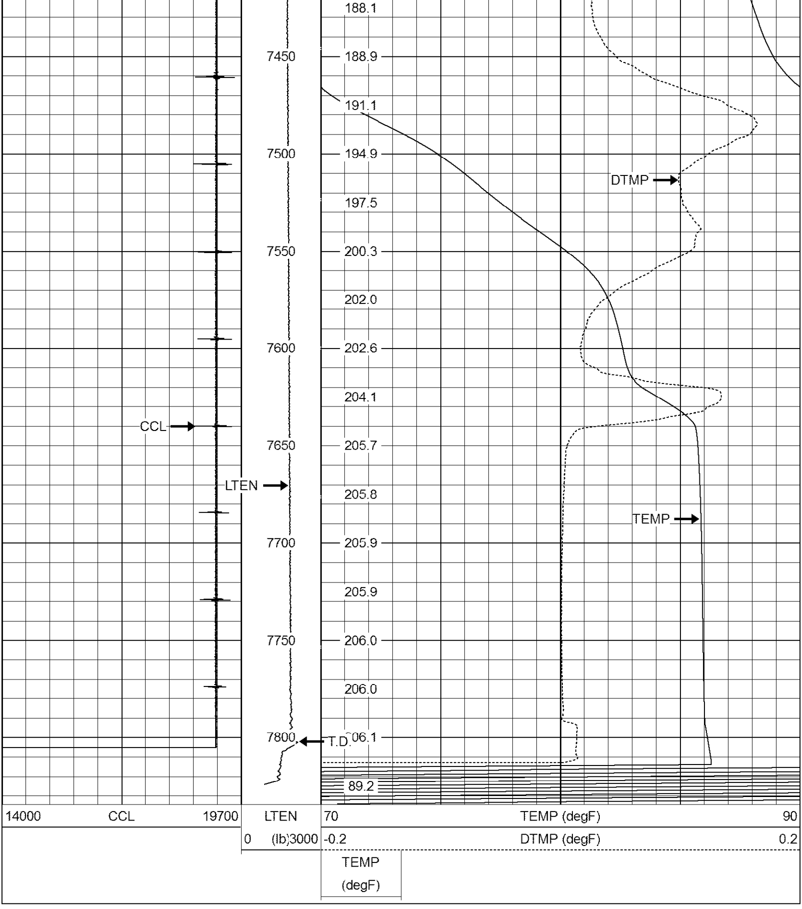
Database File:	c:\warrior\data\mdp13\090611_barrett_federal_32d-20-691.db
Dataset Pathname:	MAIN/pass1.1
Presentation Format:	RMWS_T~1
Dataset Creation:	Tue Sep 06 15:38:43 2011
Charted by:	Depth in Feet scaled 1:600

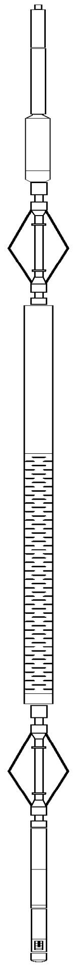
14000 CCL 19700	LTEN	70 TEMP (degF) 90
	0 (lb)3000	-0.2 DTMP (degF) 0.2
		TEMP (degF)









Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-002 (216414) Crossover Ultrawire Toolbus To Ultralink	1.58	1.69	6.50
CCL	18.97		CCL-028 (1036) CCL UW 3 1/8" SONDEX	1.61	3.13	36.00
			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 (217692) Production Gamma Ray	1.93	1.69	9.50
TEMP TSTAMP	0.37 0.00		PRT-016 (216611) Platinum Resistance Thermometer	1.04	1.69	6.00
ITEMPX HVOLTX	0.00 0.00		BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset: 090611_barrett_federal_32d-20-691.db: field/well/MAIN/pass1.2
Total Length: 22.70 ft
Total Weight: 269.20 lb
O.D. 3.13 in

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Company	BILL BARRETT CORPORATION
Well	FEDERAL 32D - 20 - 691
Field	GIBSON GULCH
County	GARFIELD
State	COLORADO