BWWC

Black Warrior Wireline Corporation

SECTOR BOND LOG

Company ANTERO RESOURCES PICEANCE CORP.
Well DEVER A16
Field MAMM CREEK
County GARFIELD
State CO

Company	ANTERO RESOURCES PICEANCE CORP.
Well	DEVER A16
Field	MAMM CREEK
County	GARFIELD State CO
Location: API # : 050451523200	Other Services
FSL 960' FWL 1765'	NONE
SEC 18 TWP 6S RGE 92W	
Permanent Datum Elevation 5571'	Elevation
Log Measured From K.B	K.B. 17'
Drilling Measured From K.B	D.F.
	G.L. 5571'

Date	09 JAN 2008		
Run Number	ONE		
Depth Driller	8745'		
Depth Logger	8687'		
Bottom Logged Interval	8683'		
Top Log Interval	SURFACE		
Open Hole Size	7.875"		
Type Fluid	H2O		
Density / Viscosity	8.34		
Max. Recorded Temp.	224 F		
Estimated Cement Top	3960'		
Time Well Ready	ROA		
Time Logger on Bottom	23:30		
Equipment Number	4518		
Location	GRD JCT		
Recorded By	K.KEENER		
Witnessed By	J.CANADY		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625"	24#	SURFACE	1072'
Prot. String	5.5"	17#	SURFACE	8712'
Production String				
Liner				

<<< Fold Here >>>

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.

Comments

THANK YOU FOR USING WARRIOR ENERGY SERVICES

SHORT JOINTS
4748-4767
8235-8246

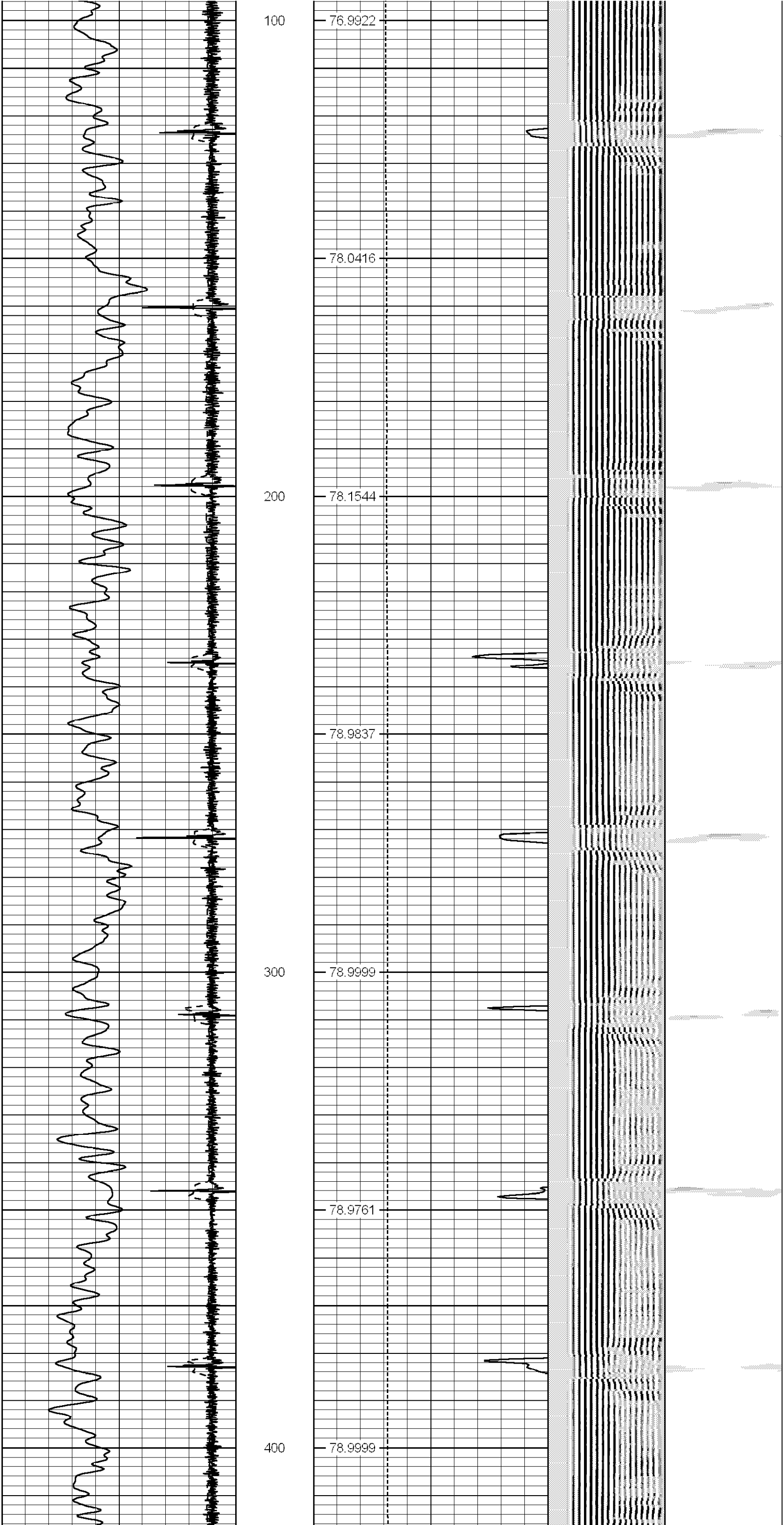
BWWC

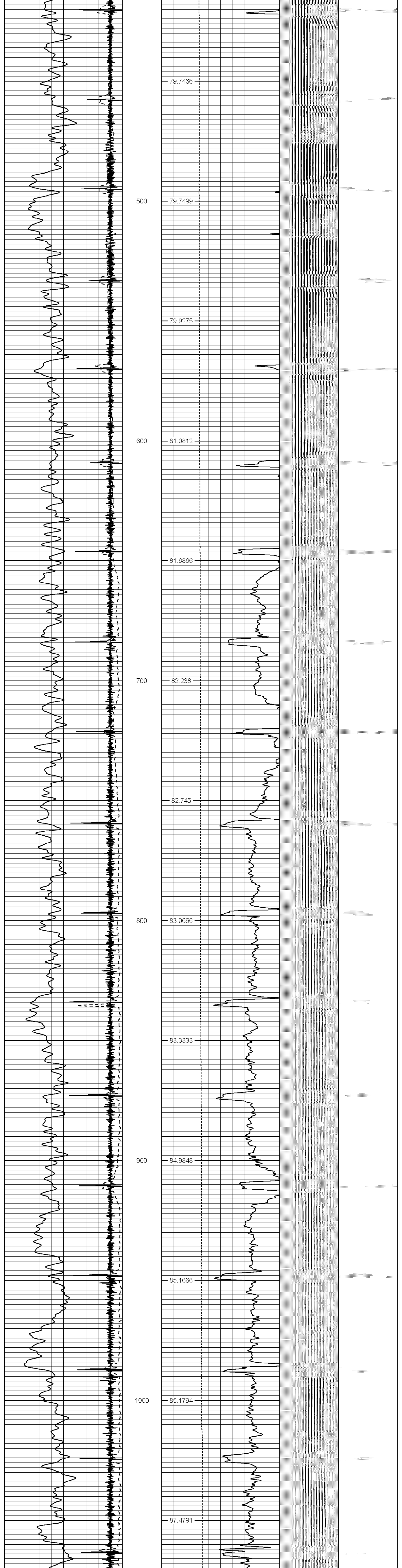
Black Warrior Wireline Corporation

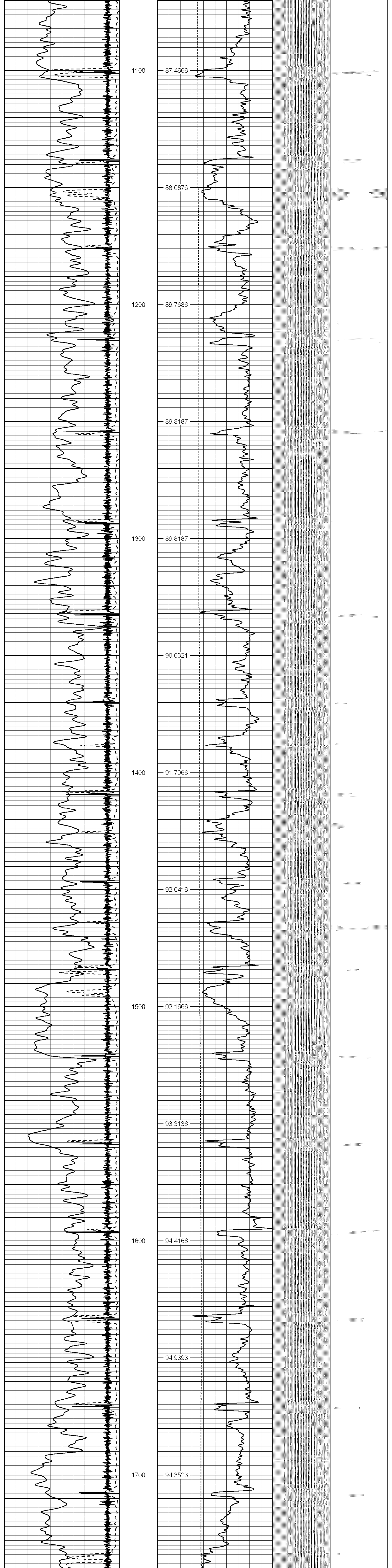
MAIN LOG PASS

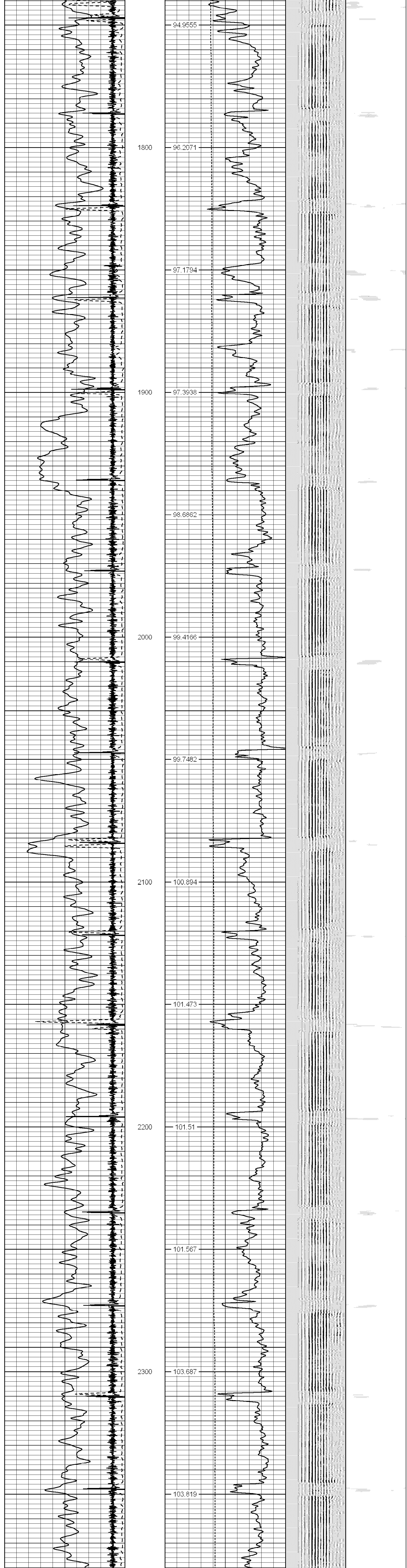
Database File:	4518-0026.db
Dataset Pathname:	pass5
Presentation Format:	1scbtvad
Dataset Creation:	Wed Jan 09 23:23:43 2008 by Log Std Casedhole 06120
Charted by:	Depth in Feet scaled 1:240

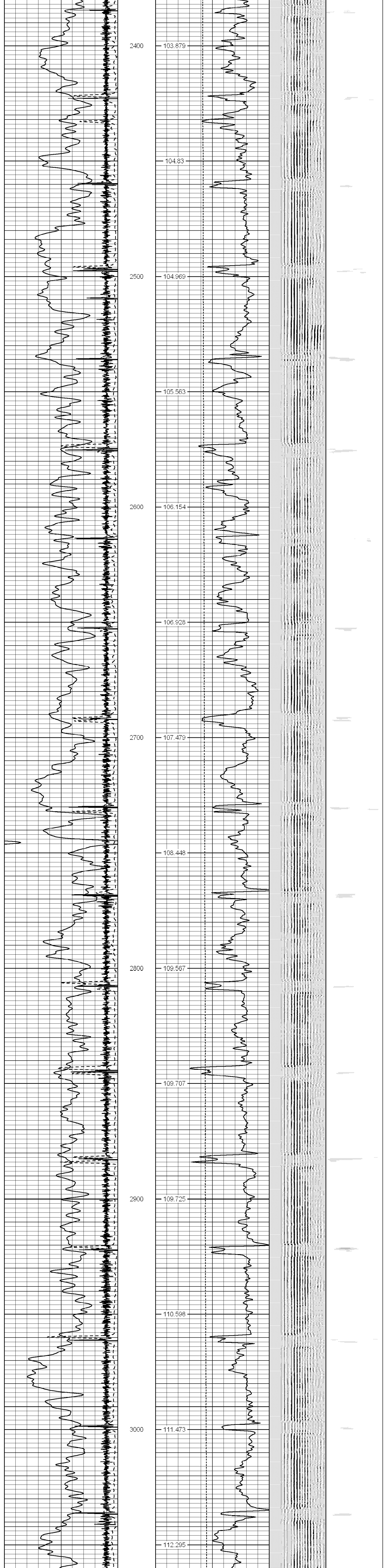
320 Travel Time (usec) 220
0 Gamma Ray (GAPI) 150
9 Casing Collar -1
0 AMP3FT (mV) 100
0 AMPX5 (mV) 20
0 TEMP (degF) 250
200 VDL 1200
1 VAD 8

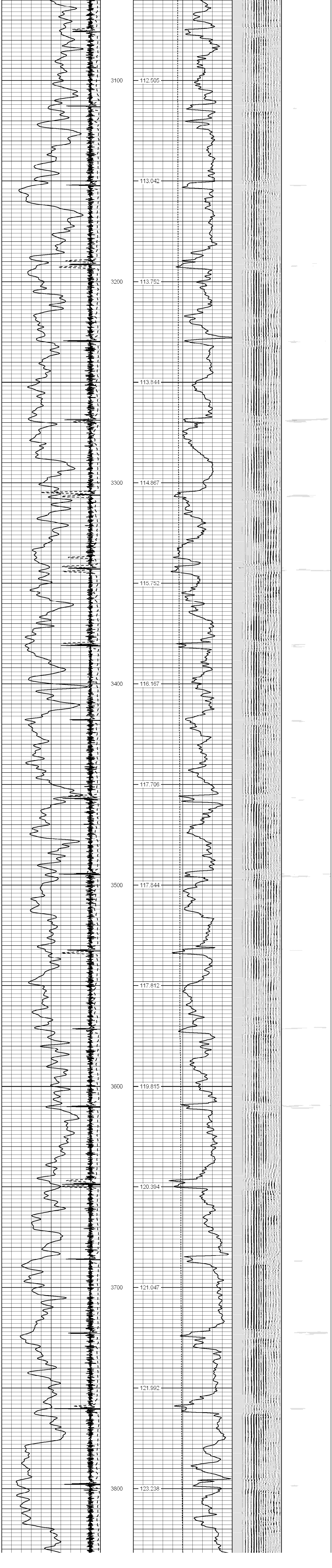


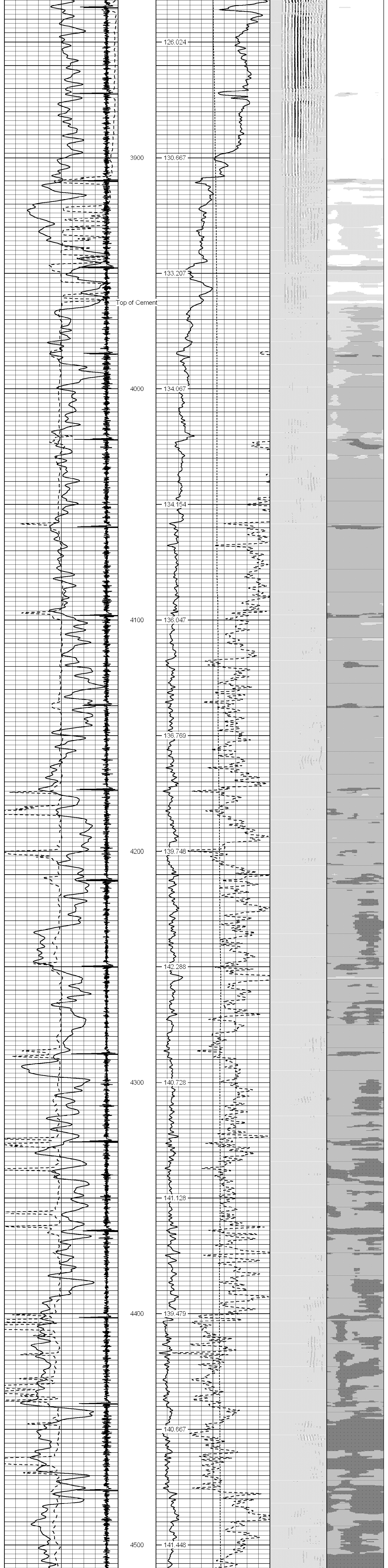


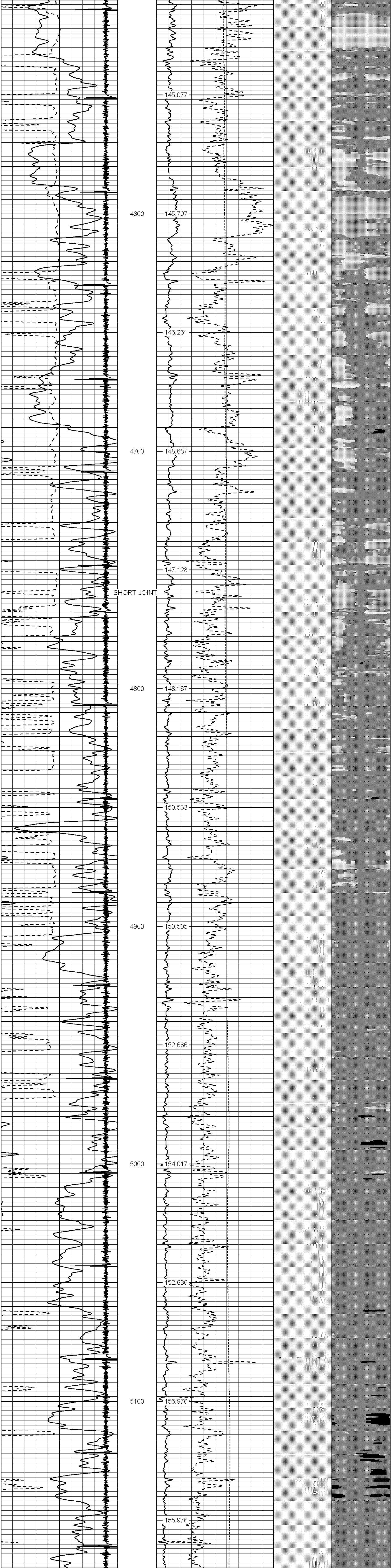


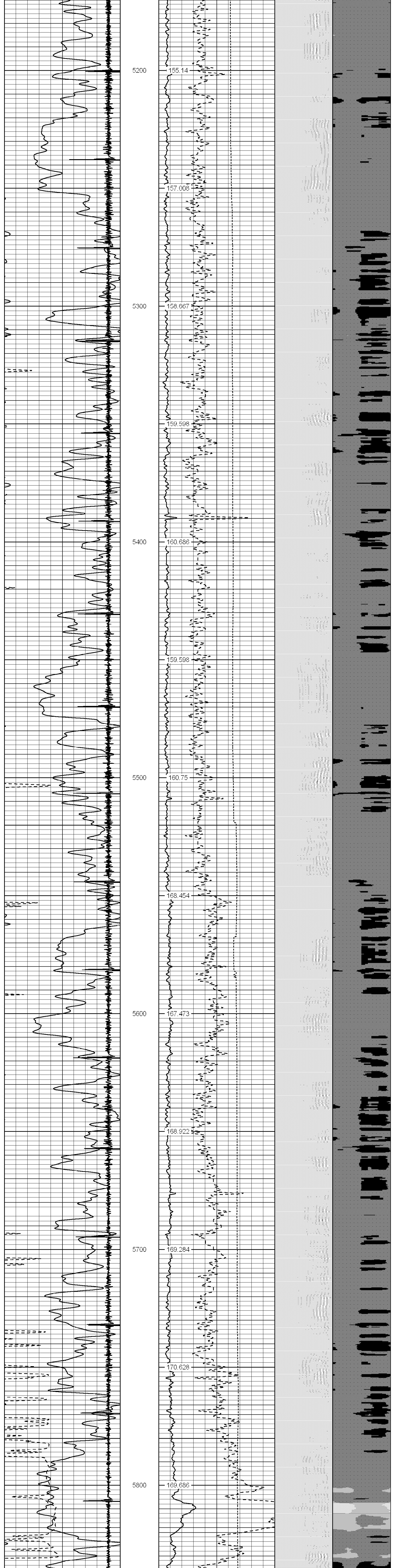


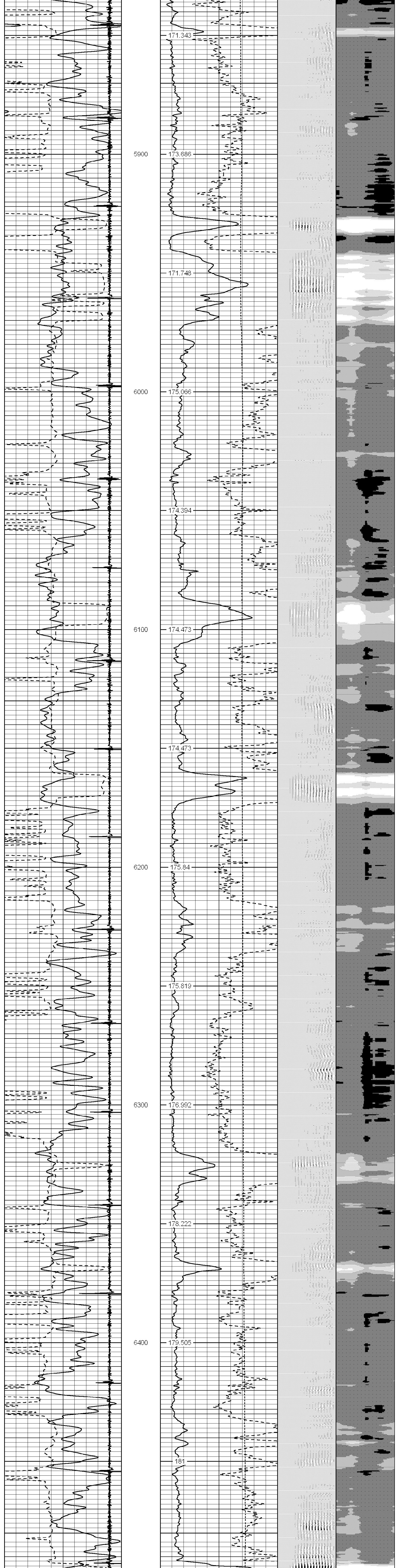


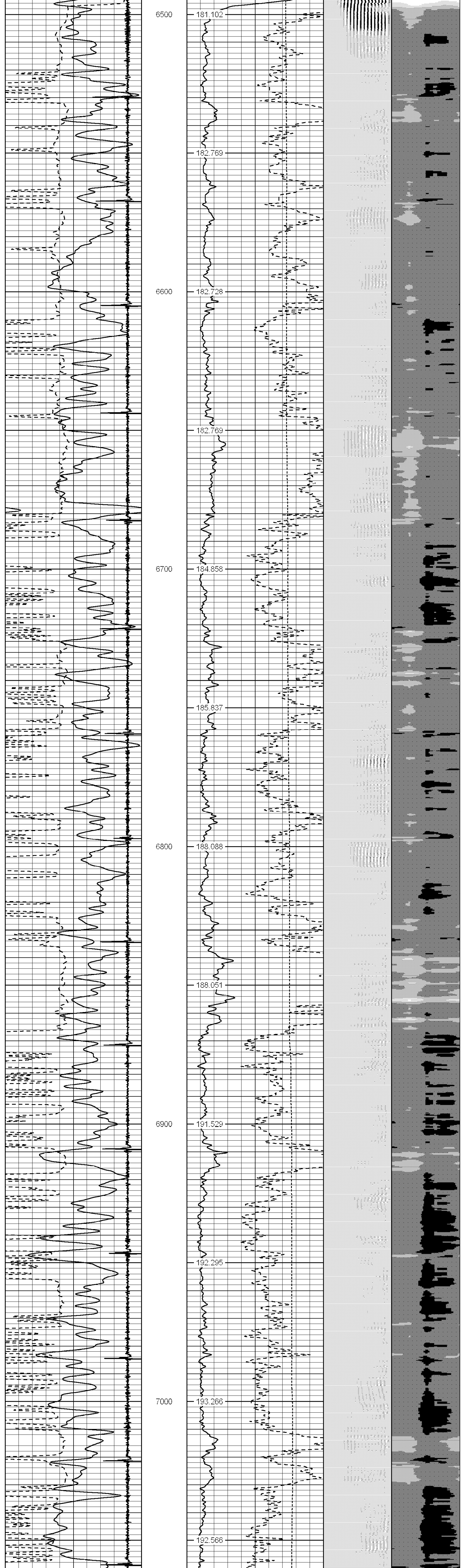


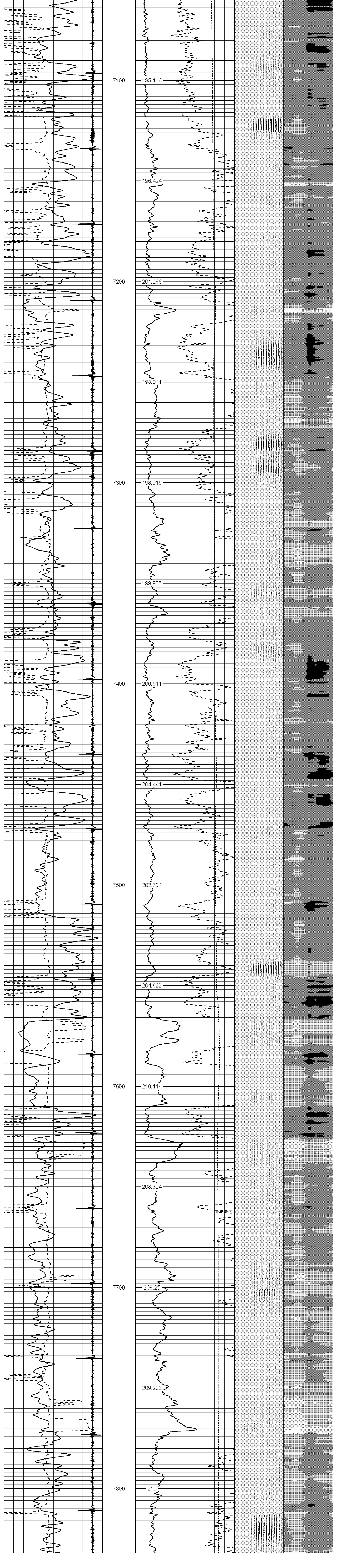

126.024
3900
130.667
133.207
Top of Cement
4000
134.067
134.154
4100
136.047
136.769
4200
139.748
142.288
4300
140.728
141.128
4400
139.479
140.667
4500
141.448

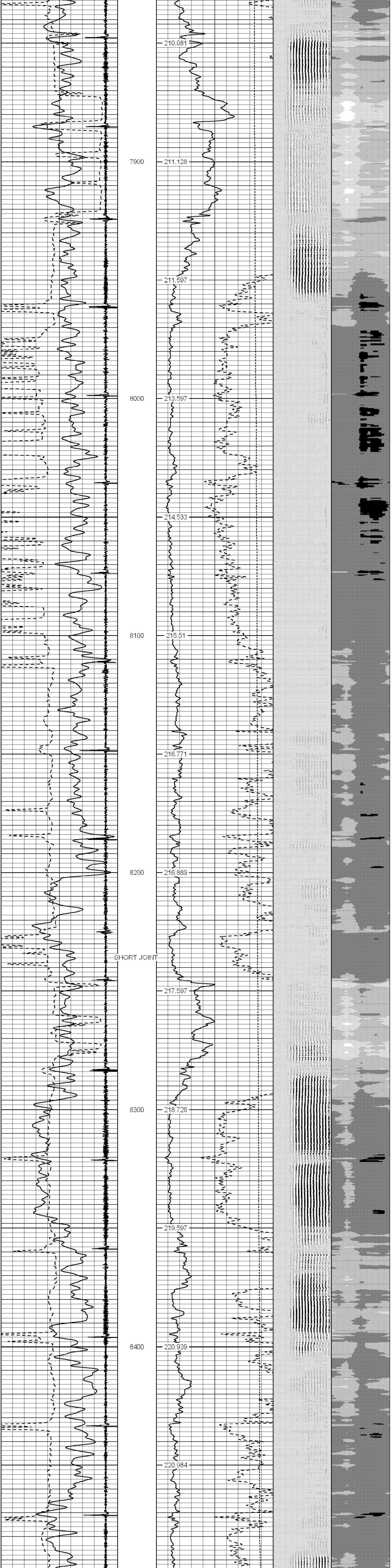

145.077
4600
145.707
146.261
4700
148.687
147.128
SHORT JOINT
4800
148.167
150.533
4900
150.505
152.686
5000
154.017
152.686
5100
155.976
155.976

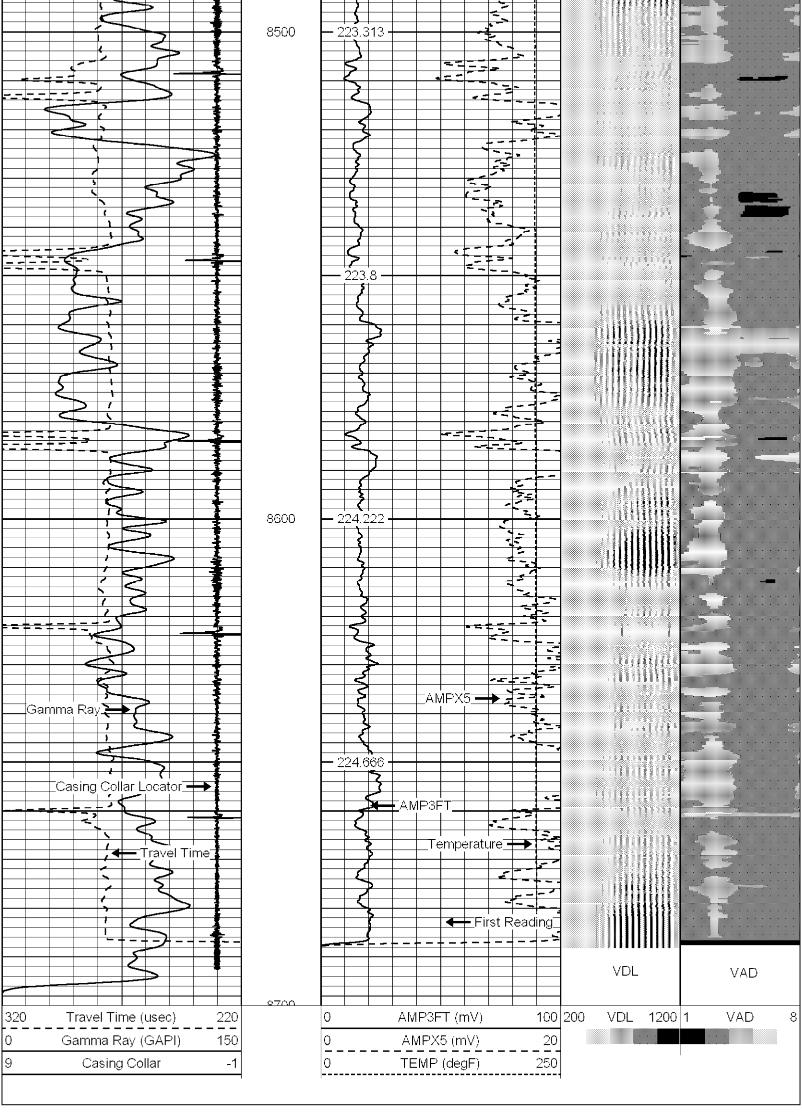

5200
155.14
157.008
5300
158.667
159.598
5400
160.686
159.598
5500
160.75
168.454
5600
167.473
168.922
5700
169.284
170.628
5800
169.686


171.343
5900
173.686
171.748
6000
175.066
174.394
6100
174.473
174.473
6200
175.84
175.819
6300
176.992
178.222
6400
179.505
181


6500
181.102
182.769
6600
182.728
182.769
6700
184.858
185.837
6800
188.088
188.051
6900
191.529
192.295
7000
193.266
192.566


7100
195.166
196.424
7200
201.266
198.041
7300
198.916
199.905
7400
200.911
204.441
7500
202.794
204.822
7600
210.114
208.324
7700
209.25
209.266
7800
210



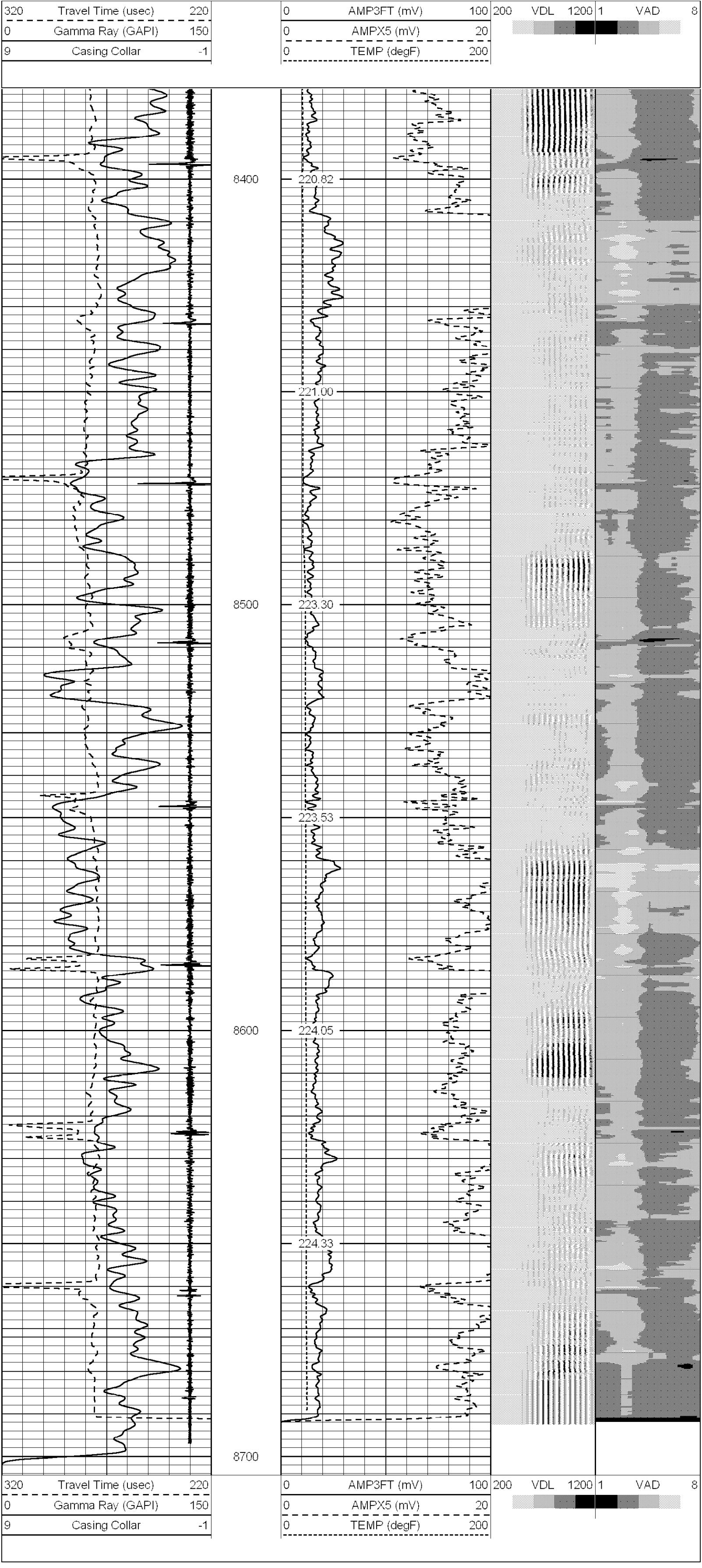


BWWC

Black Warrior Wireline Corporation

REPEAT LOG PASS

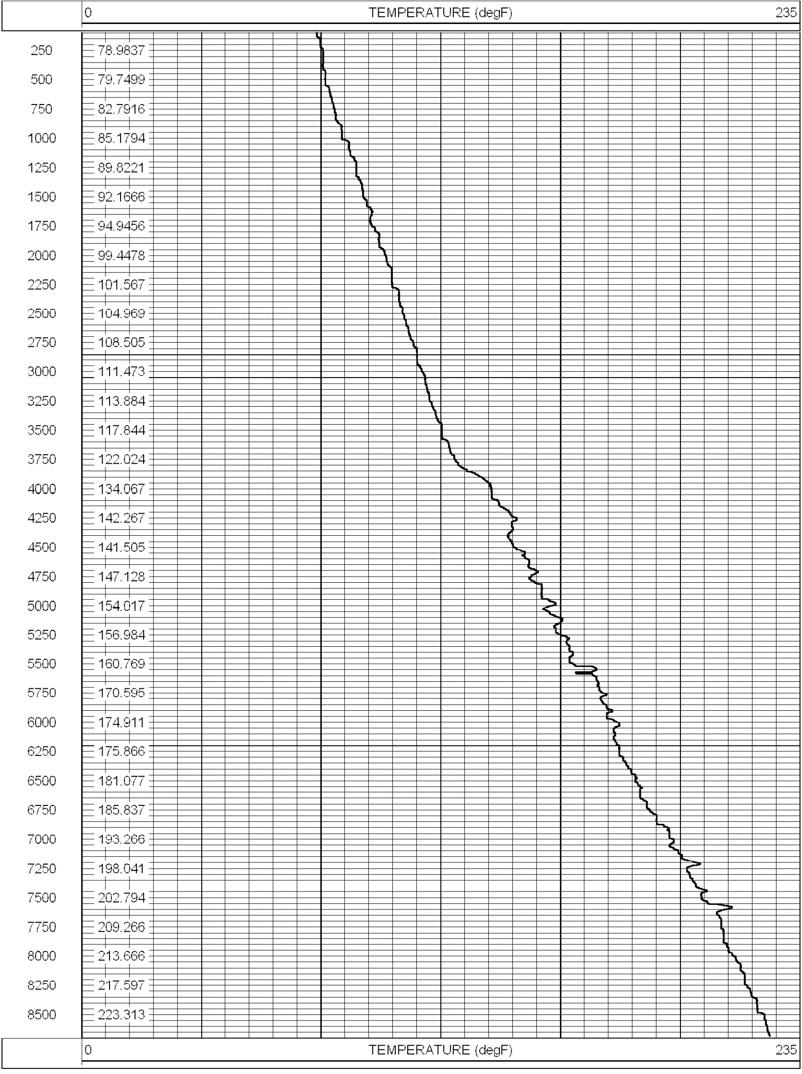
Database File: 4518-0026.db
Dataset Pathname: pass4
Presentation Format: 1scbtvad
Dataset Creation: Wed Jan 09 23:16:21 2008 by Log Std Casedhole 06120
Charted by: Depth in Feet scaled 1:240

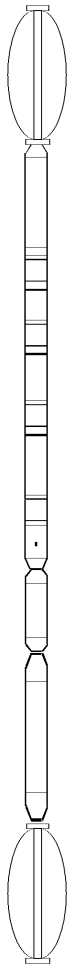


BWWC
Black Warrior Wireline Corporation

MAIN LOG

Database File:	4518-0026.db
Dataset Pathname:	pass5.1
Presentation Format:	temp
Dataset Creation:	Thu Jan 10 01:04:29 2008 by Calc Std Casedhole 06120
Charted by:	Depth in Feet scaled 1:10000



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			LTEC-1.68 LTEC Six Arm	3.00	1.69	15.00
TEMP	14.85					
WVFS1	13.56					
WVFS2	13.56		SCBL100T-Tekco100T (100T-001)	9.13	0.00	
WVFS3	13.56					
WVFS4	13.56					
WVFS5	13.56					
WVFS6	13.56					
WVFS7	13.56					
WVFS8	13.56					
WVF3FT	12.81					
WVFCAL	12.81					
WVF5FT	11.81					
WVFTEMP	8.47					
WVFSYNC	8.47					
			CCL-Tekco105 (105-004)	1.81	2.75	15.00
CCL	7.29					
			GR-Tekco110 (110-004)	3.66	2.75	25.00
GR	4.00					
			LTEC-1.68 LTEC Six Arm	3.00	1.69	15.00

Dataset:	4518-0026.db: field/well/run1/pass5.1
Total Length:	20.60 ft
Total Weight:	70.00 lb
O.D.	2.75 in