Company	KERR-MCGEE OIL AND GAS ONSHORE LP.
Well	CROWDER 16N-19HZ
Field	WATTENBERG
County	WELD
State	COLORADO

PIONEER
Pioneer Energy Services

C.C.L. V.D.L. GAMMA RAY CEMENT BOND LOG

Company KERR-MCGEE OIL AND GAS ONSHORE LP.
Well CROWDER 16N-19HZ
Field WATTENBERG
County WELD State COLORADO

Location: API # : 05-123-36718-0000
SHL: 504' FNL X 853' FEL
SEC 18 TWP 2N RGE 65W

Other Services
XIPE
RBP
GUAGE RING

Permanent Datum	GL	Elevation	4953'
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4978'
D.F. 4977'
G.L. 4953'

Date	MAY 1, 2013		
Run Number	ONE		
Depth Driller	16,620'		
Depth Logger	6550'		
Bottom Logged Interval	6550'		
Top Log Interval	SURFACE		
Open Hole Size	7.875"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	231 DEF. F		
Estimated Cement Top	NA		
Time Well Ready	NA		
Time Logger on Bottom	NA		
Equipment Number	ONE		
Location	FORT MORGAN		
Recorded By	RANDY AZEVEDO		
Witnessed By	DARREL BOTHWELL		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36#	25'	1085'
Prot. String	7"	26#	O	7483'
Production String				
Liner	4.5"	11.6#	6500'	16,620'

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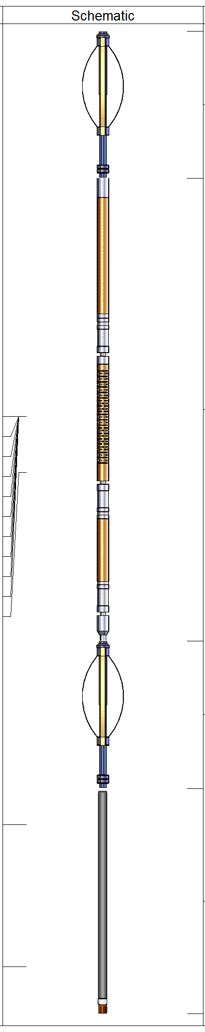
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

Comments

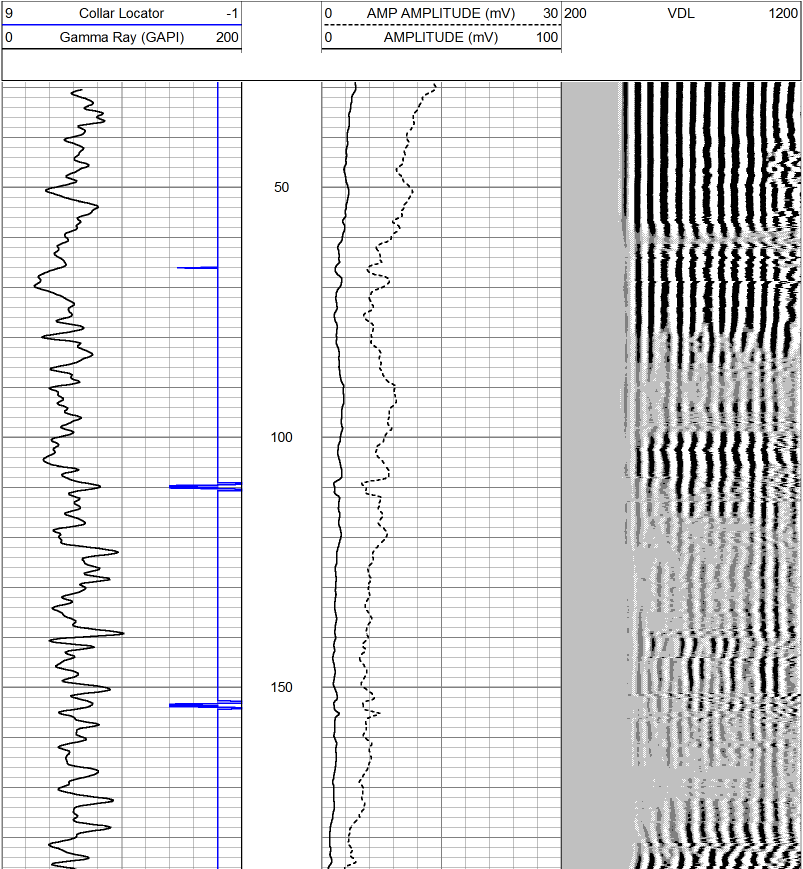
WCR 22 & WCR 39, W 2/10, S 1/10, E 1/10 INTO
LOG CORRILATED TO LINER TOP SET AT 6500'
LINER TOP 6500'
AFE # 2073465
THANK YOU FOR USING PIONEER ENERGY SERVICES
SO # 2-204013

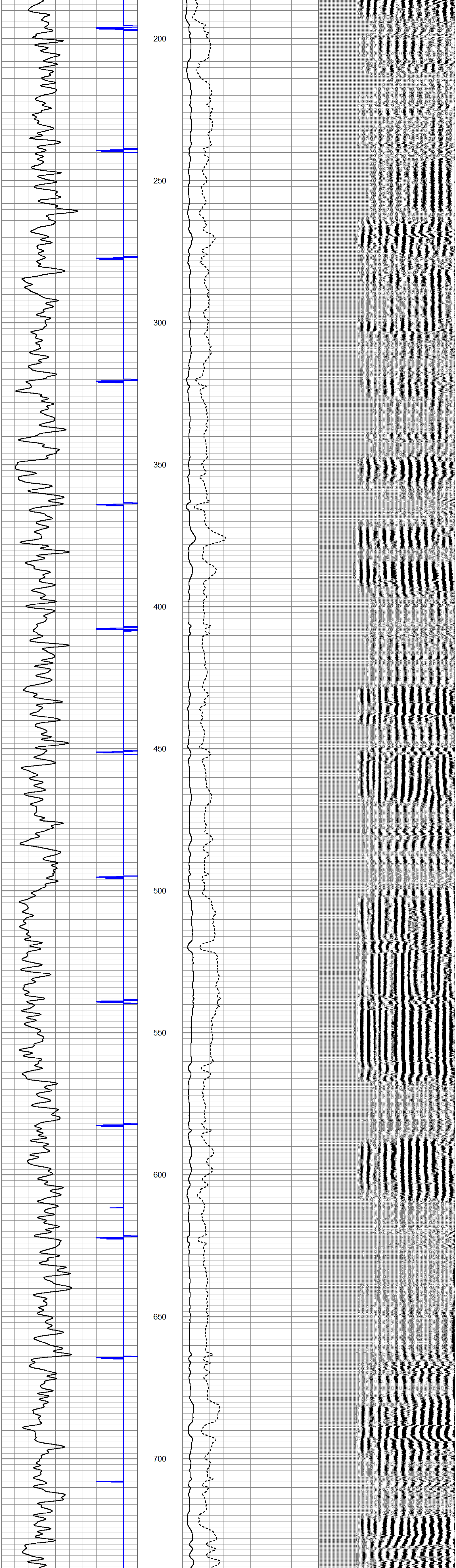


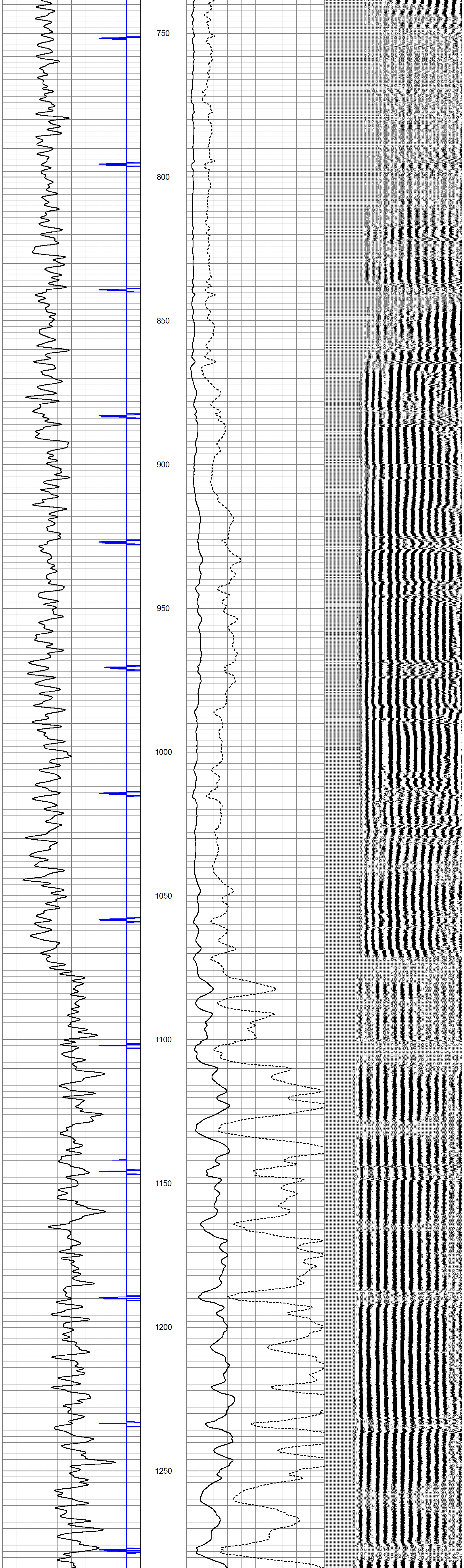
Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		PTS275	2.83	2.75	
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 10.42	RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
		PTS275	2.83	2.75	
CCL	3.64				
GR	0.90	GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.33	2.75	30.00

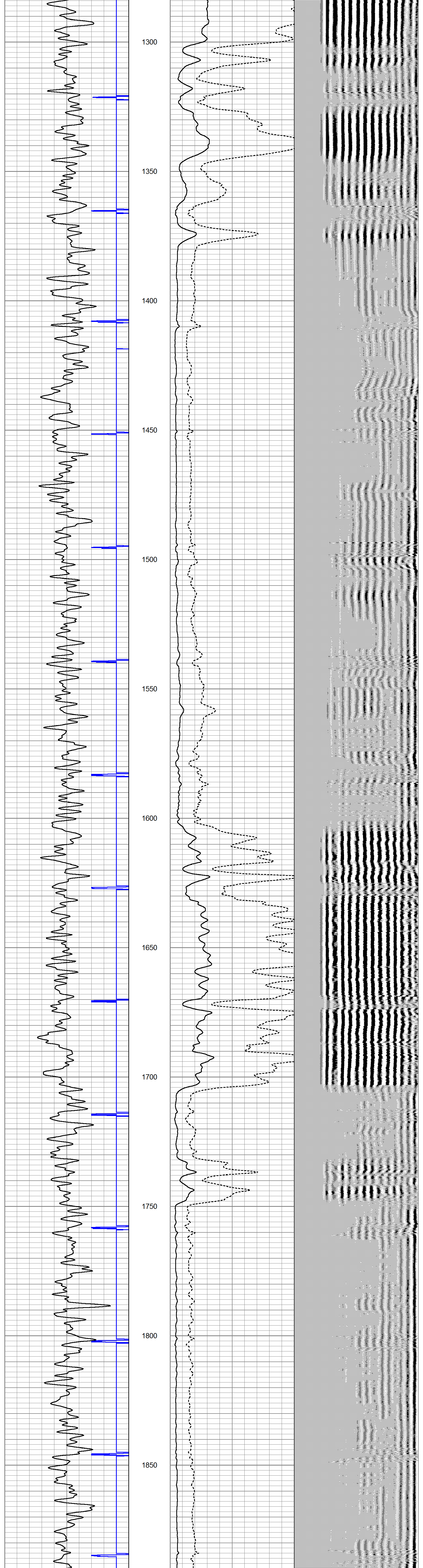
Dataset: crowder 16n-19hz cbl.db: field/well/run1/pass4
Total Length: 18.92 ft
Total Weight: 120.00 lb
O.D. 2.75 in

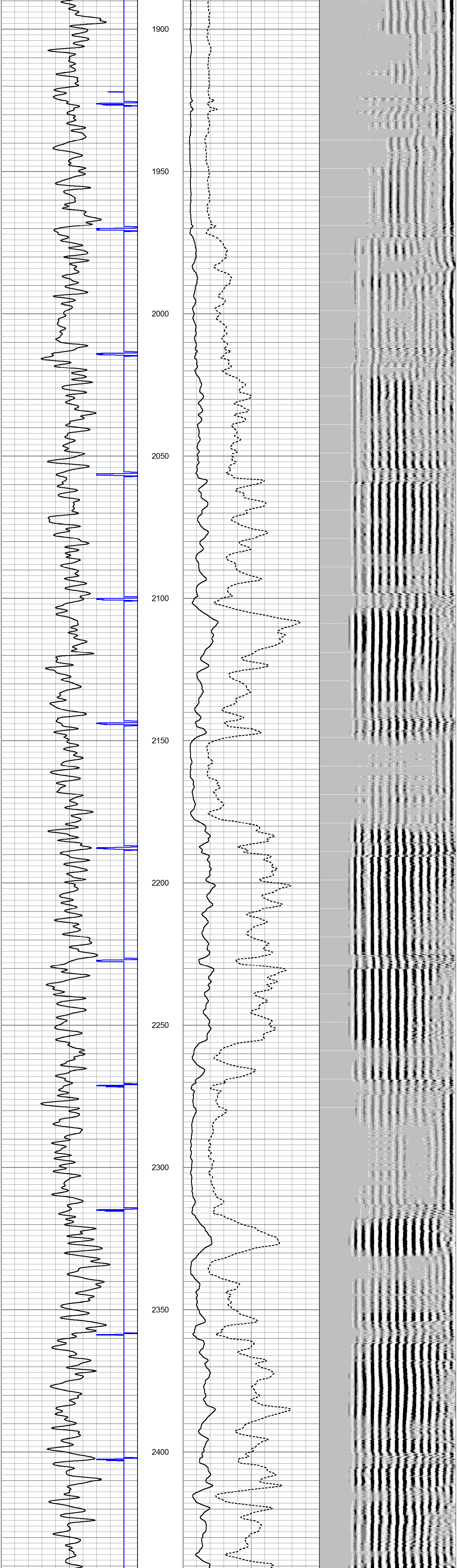
Database File: c:\users\sdizmang\desktop\crowder 16n-19hz cbl.db
Dataset Pathname: pass4
Presentation Format: cbl_drs
Dataset Creation: Wed May 01 17:42:31 2013 by Log SCH 120126
Charted by: Depth in Feet scaled 1:240

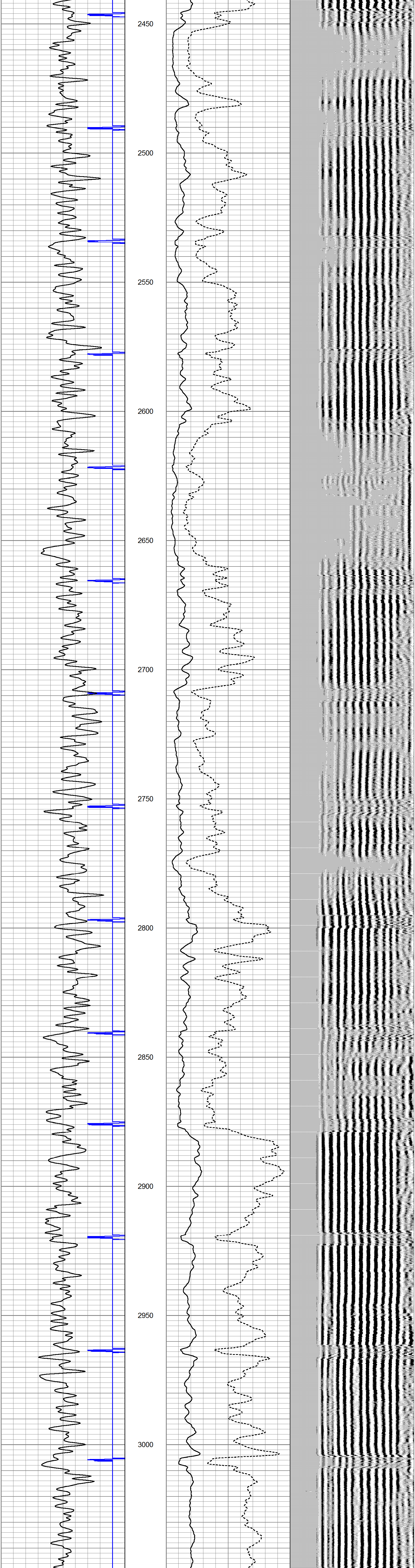


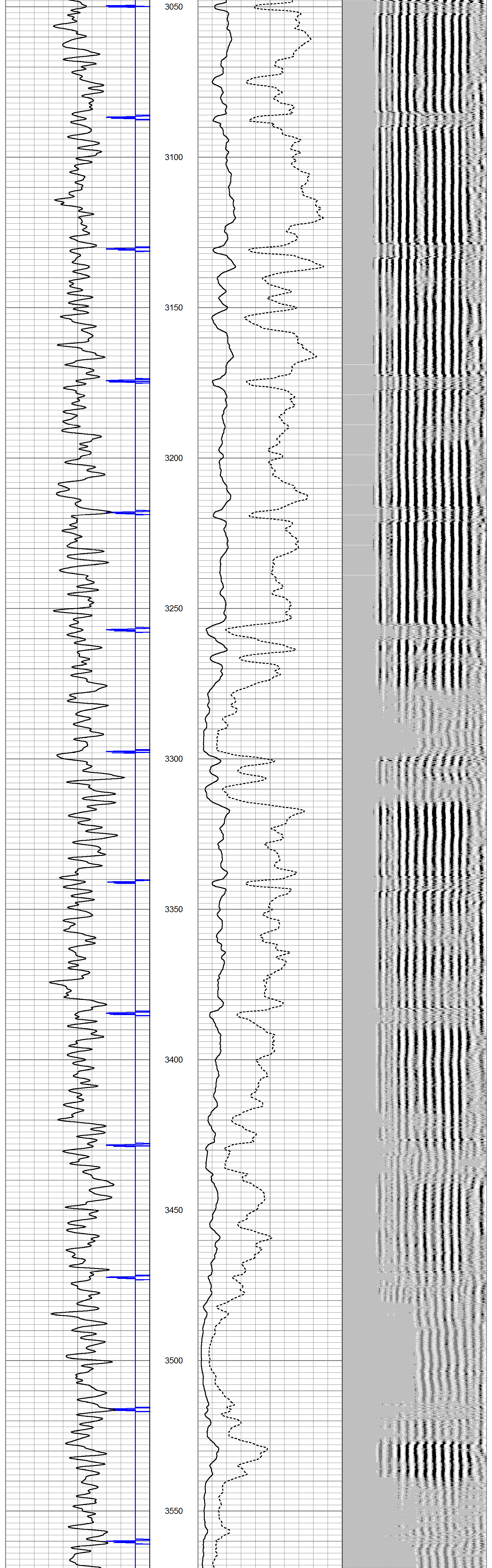


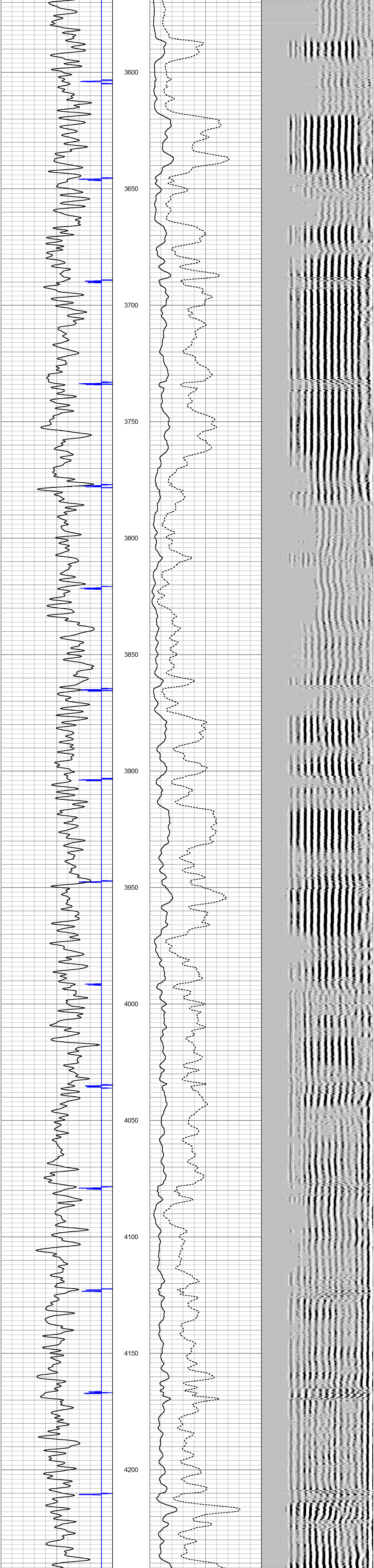








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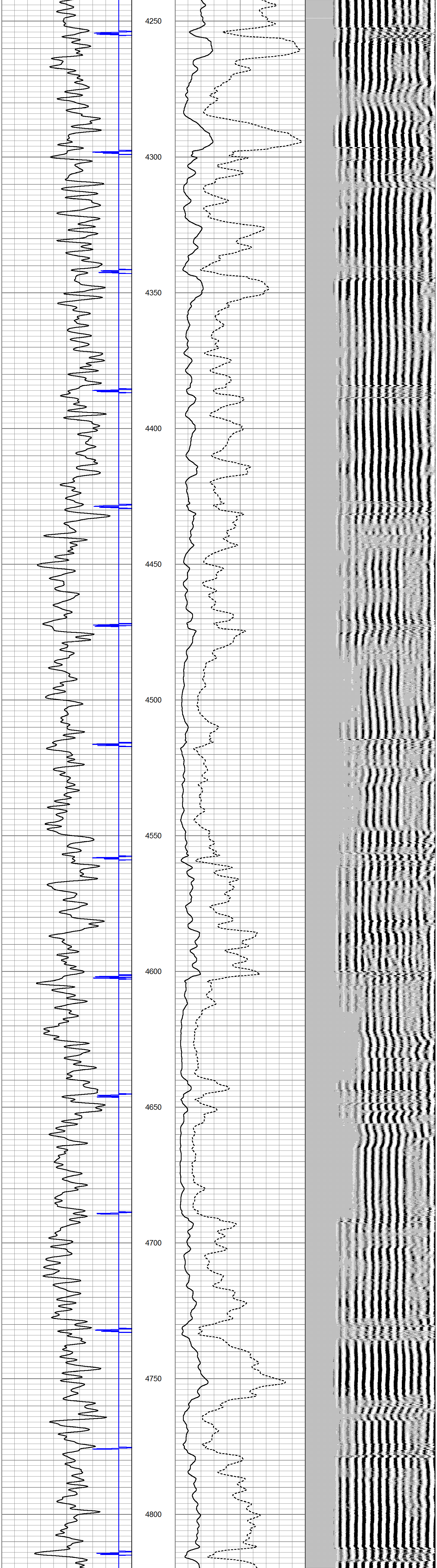
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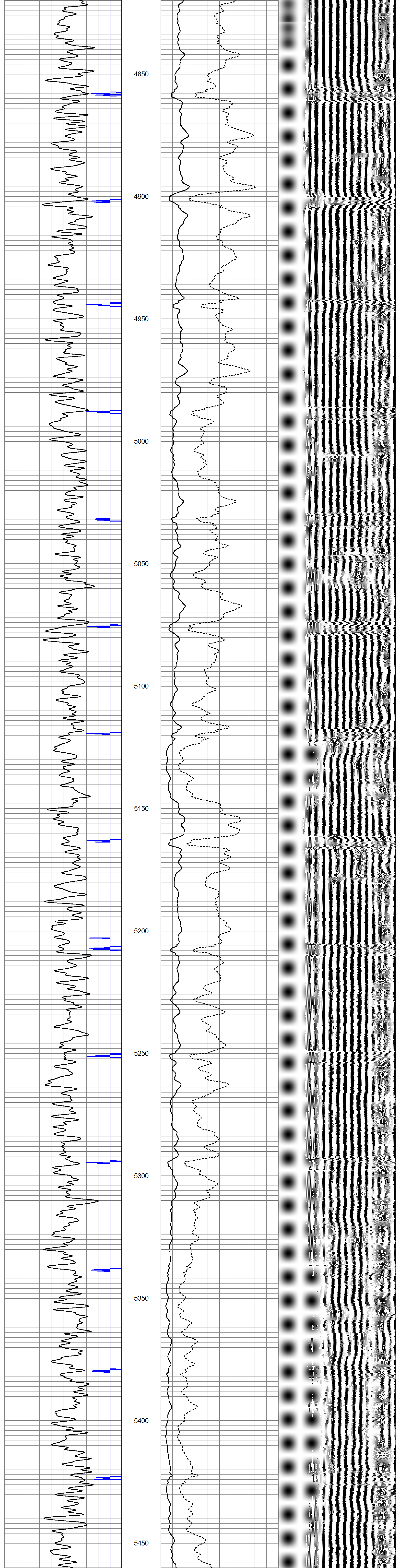
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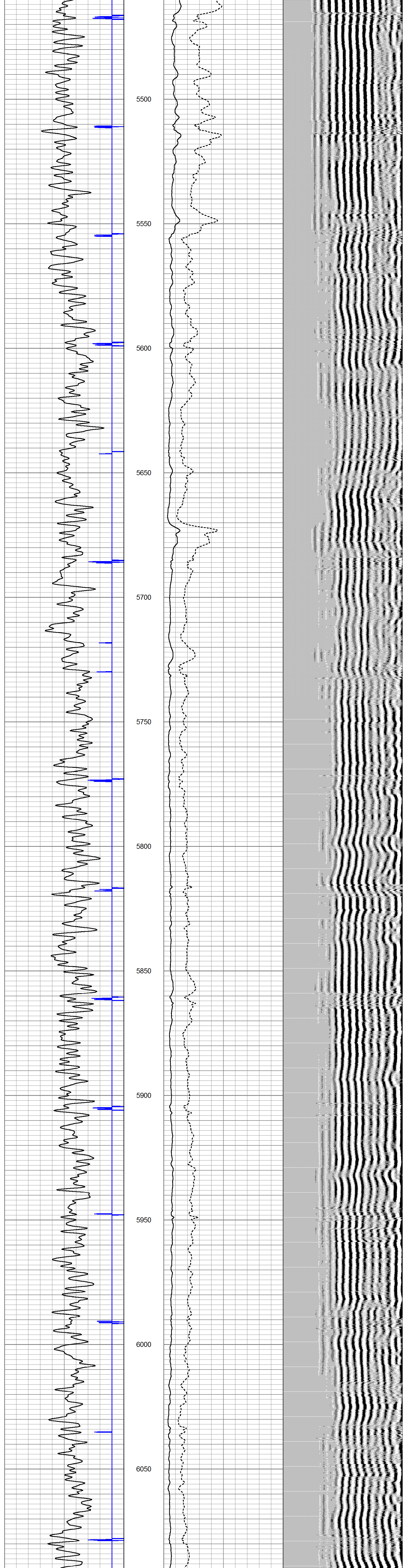
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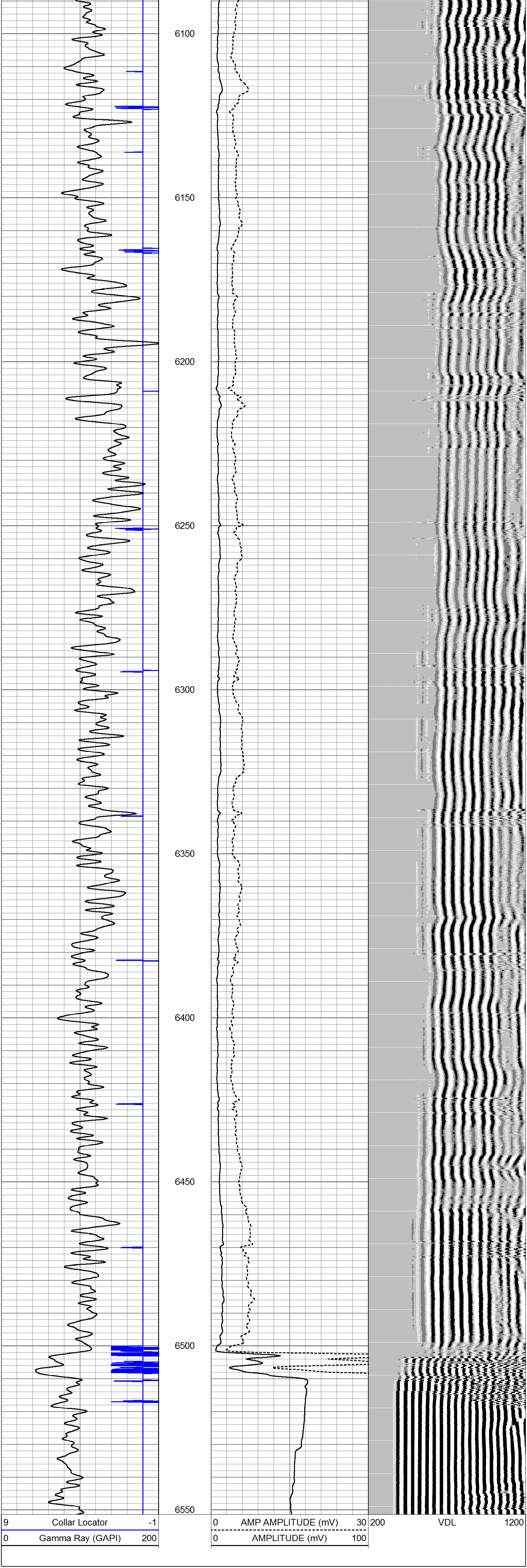
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AMP AMPLITUDE (mV)
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AMPLITUDE (mV)
100
200
VDL
1200