Cutters Wireline Service, Inc.
A Cased Hole Wireline Company

CEMENT BOND LOG
GAMMA / RAY
CCL

Company	BLACK HILLS PLATEAU PRODUCTION LLC.
Well	HOMER DEEP UNIT 7-23AH
Field	SOUTH SHALE RIDGE
County	GARFIELD
State	COLORADO

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County GARFIELD State COLORADO

Location: API # : 05-045-22

SEC 7 TWP 8S RGE 98W

Other Services: NONE

Permanent Datum	GROUND LEVEL	Elevation 5675'	Elevation
Log Measured From	KELLY BUSHING		K.B. 5698'
Drilling Measured From	KELLY BUSHING	=23'	D.F. 5697' G.L. 5675'

Date	14-APR-2014
Run Number	ONE
Depth Driller	66849'
Depth Logger	6850
Bottom Logged Interval	6850'
Top Log Interval	SURFACE
Open Hole Size	9.875"
Type Fluid	DRILL MUD WATER BASED
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	SEE LOG
Time Well Ready	R.O.A.
Time Logger on Bottom	N/A
Equipment Number	TRK. 126
Location	GRAND JUNCTION
Recorded By	R.RODRIGUEZ
Witnessed By	MR. LUPTON

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String	7.625"	P-110	1000'	6849'
Production String				
Liner				

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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

LOG CORRELATED TO DRILLING RIG K/B @ 23'

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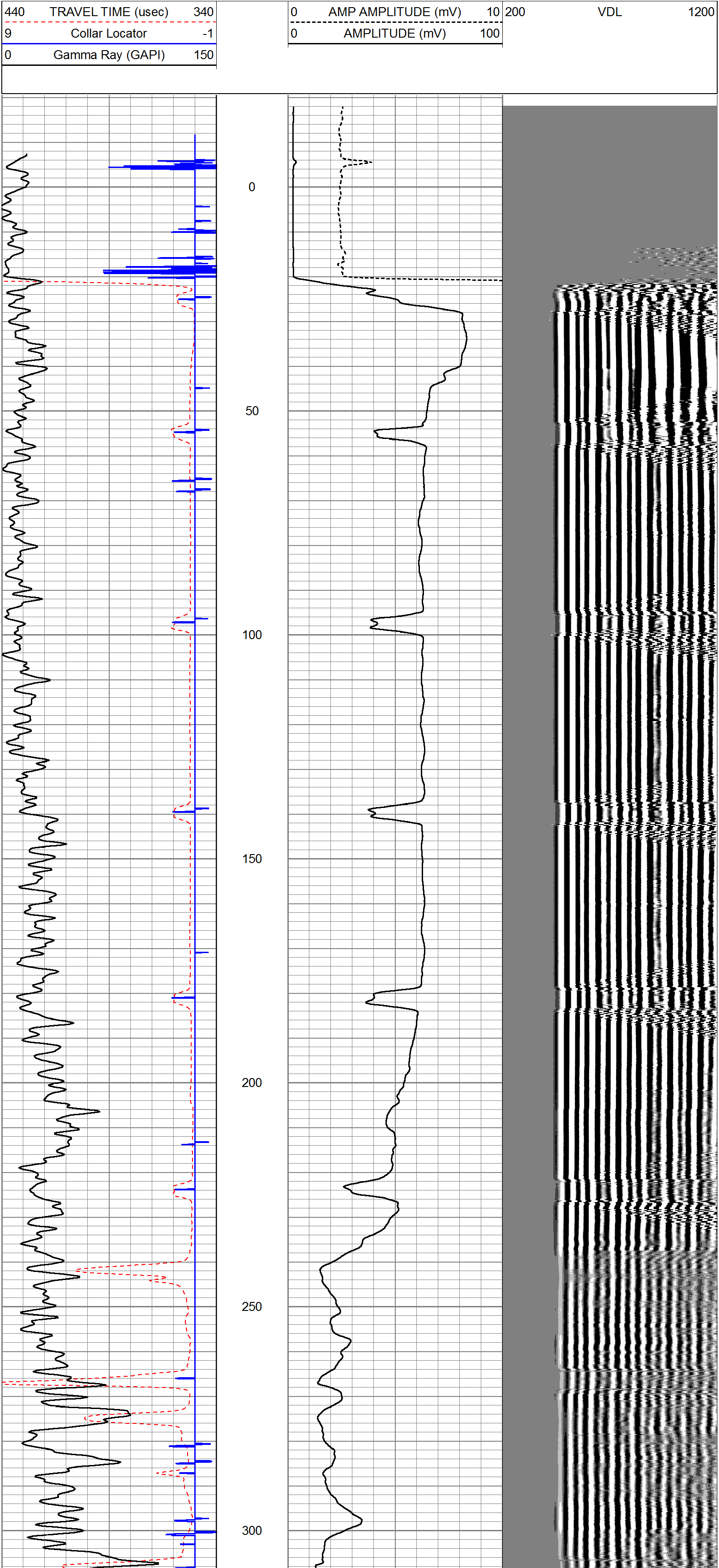
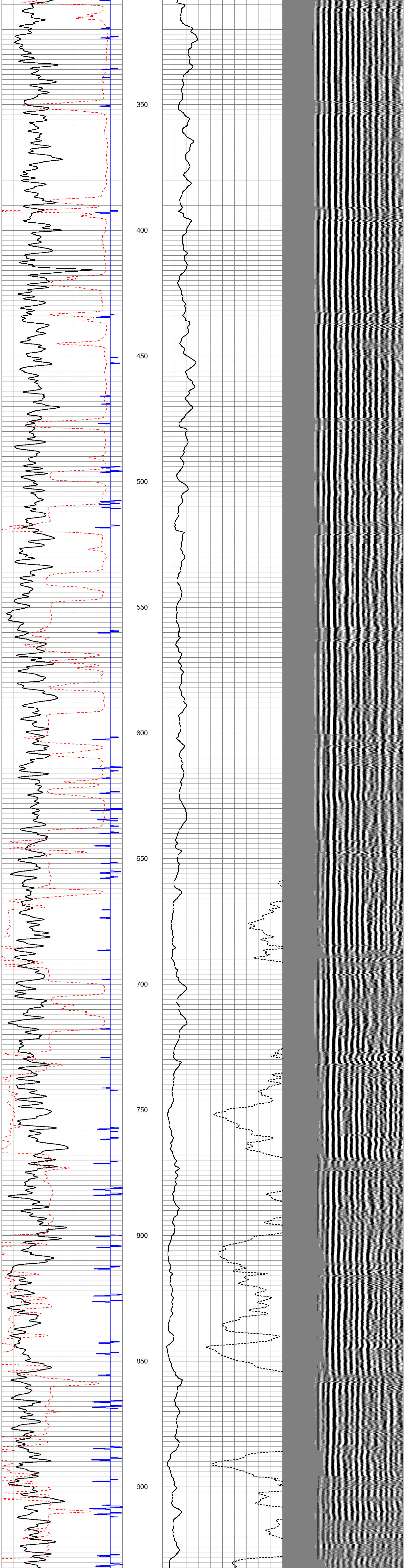
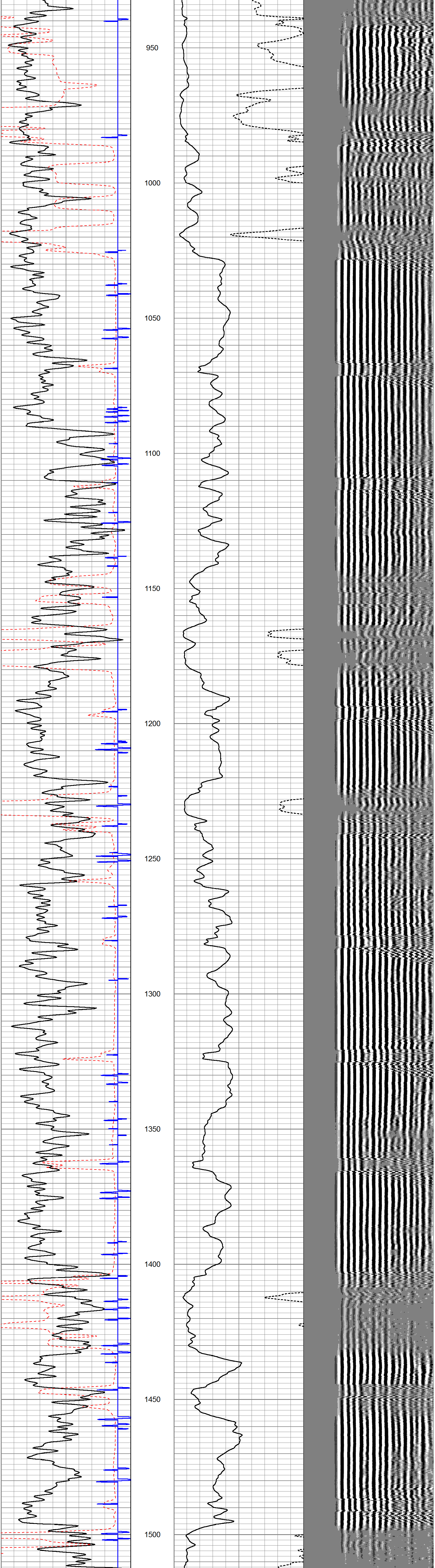
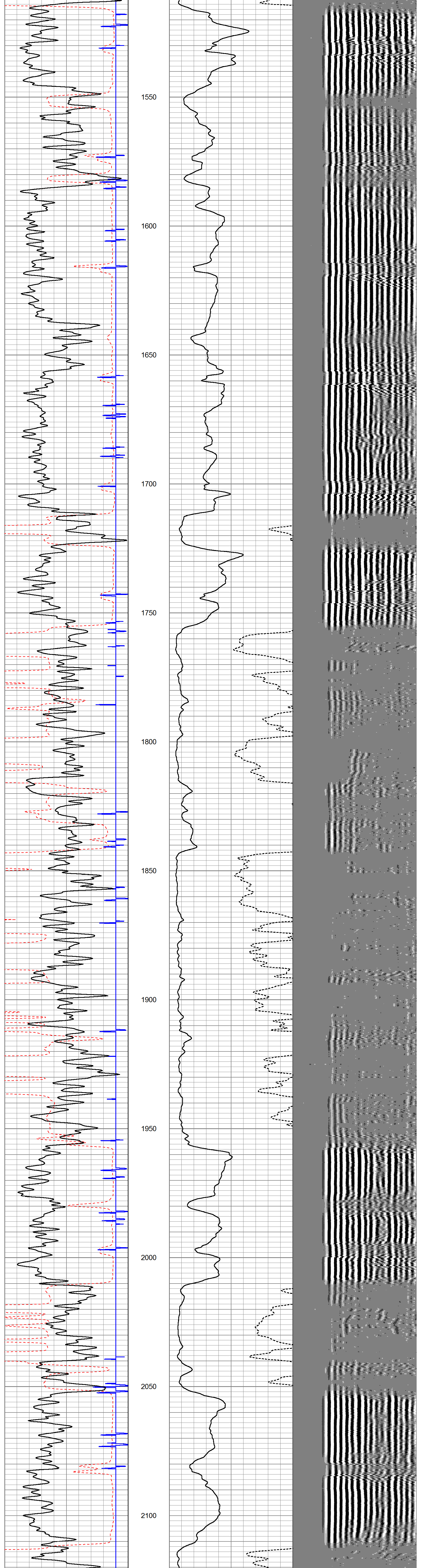
MAIN PASS 300 PSI.

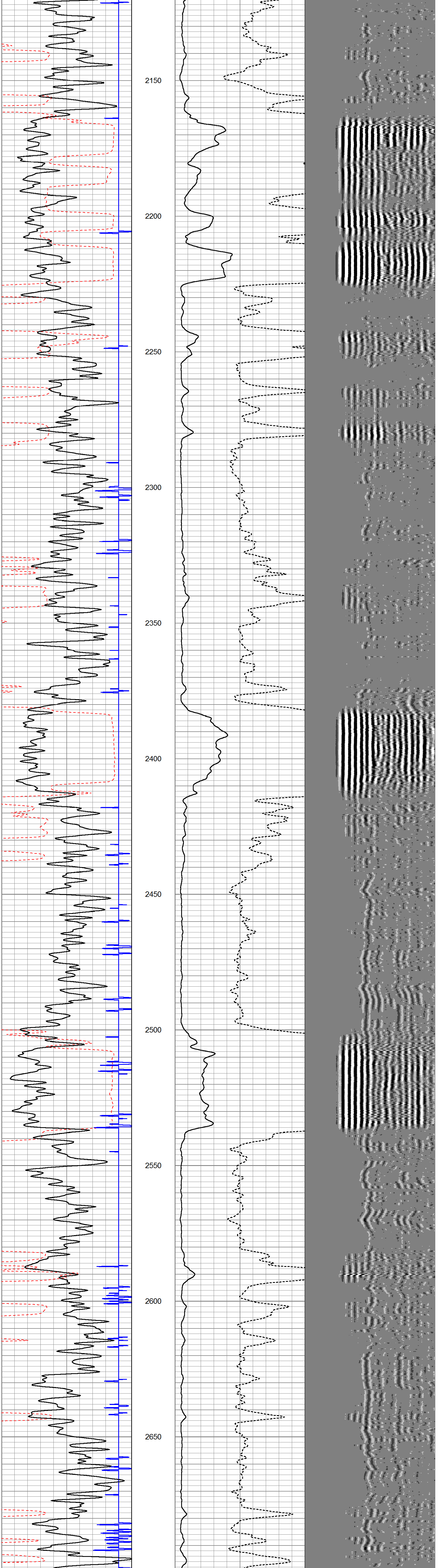
Database File:	homerdeepunit7_23ah.db
Dataset Pathname:	merge3
Presentation Format:	cbl_drs
Dataset Creation:	Thu May 14 20:11:48 2015
Charted by:	Depth in Feet scaled 1:240

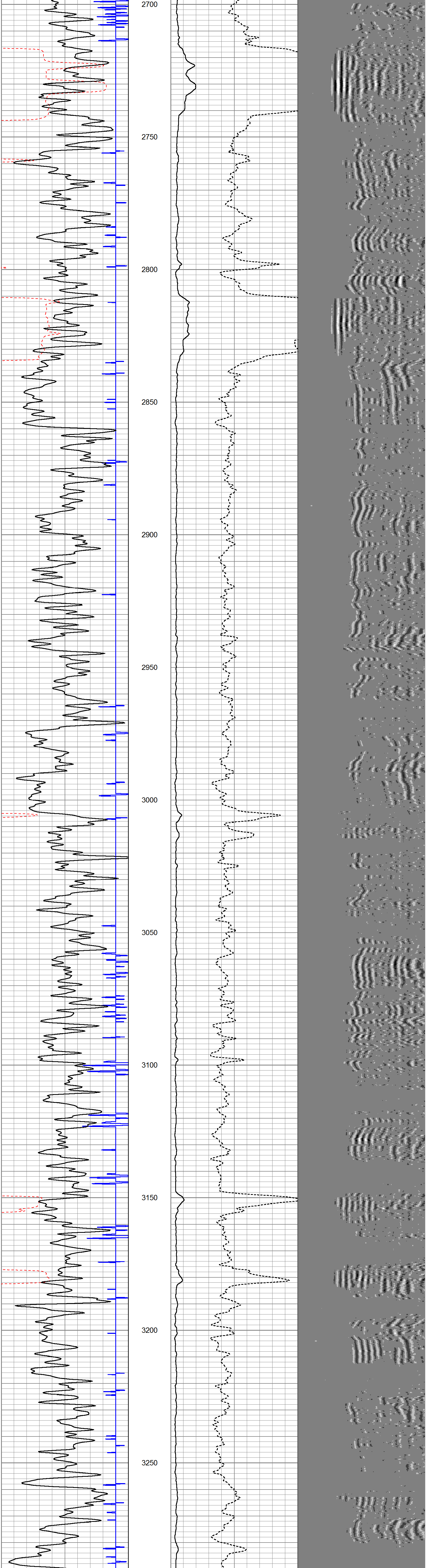


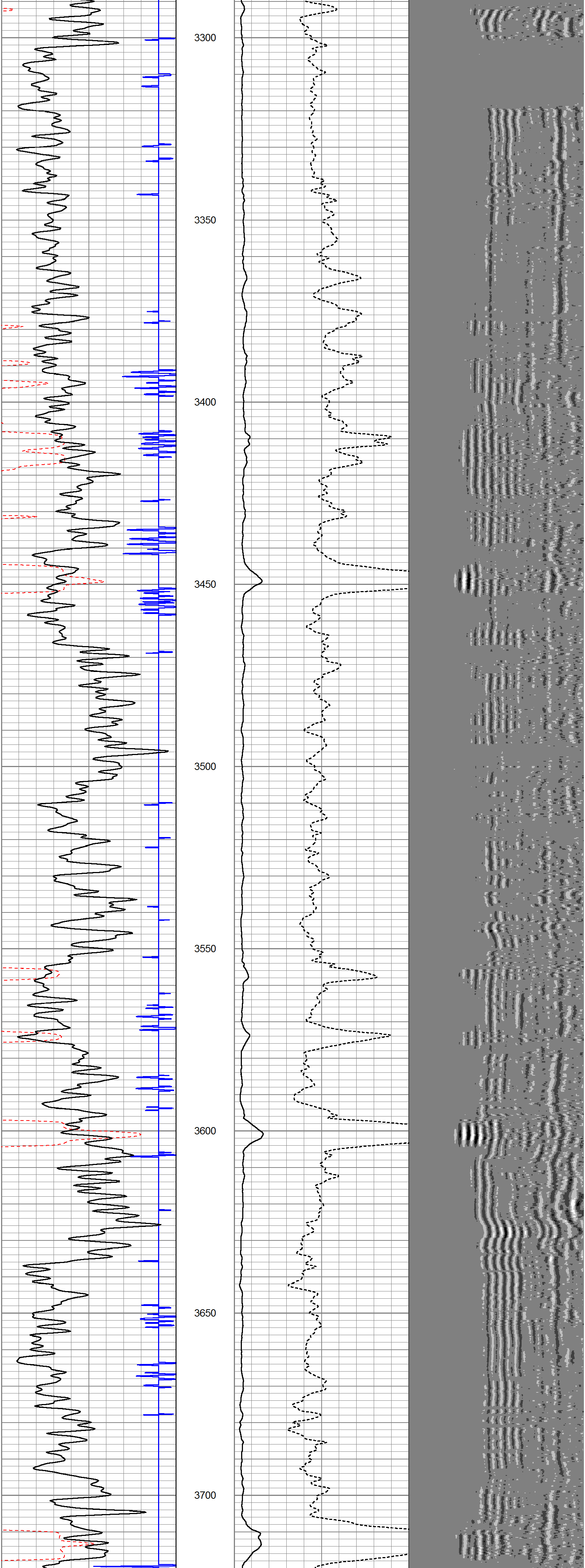


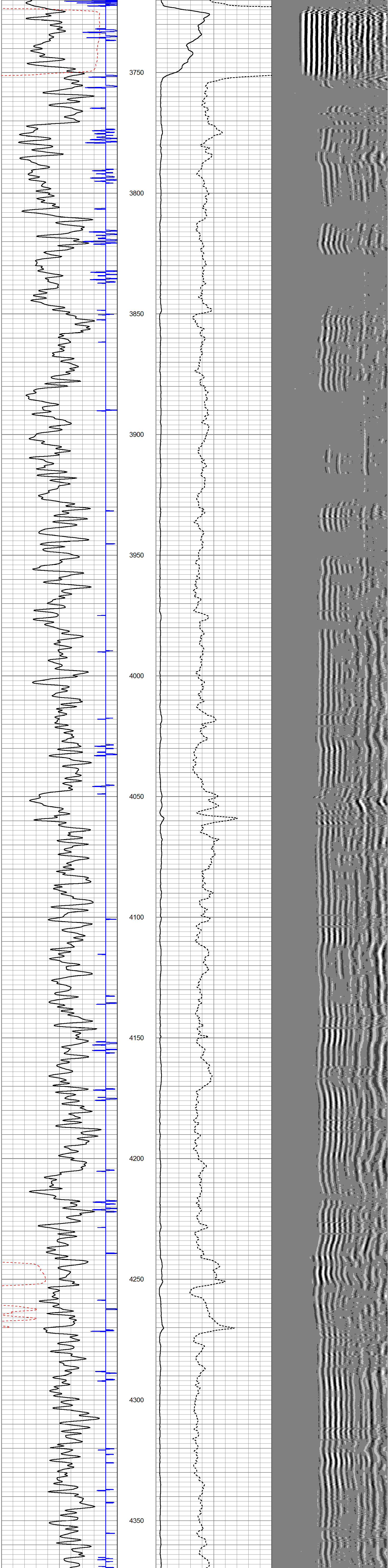


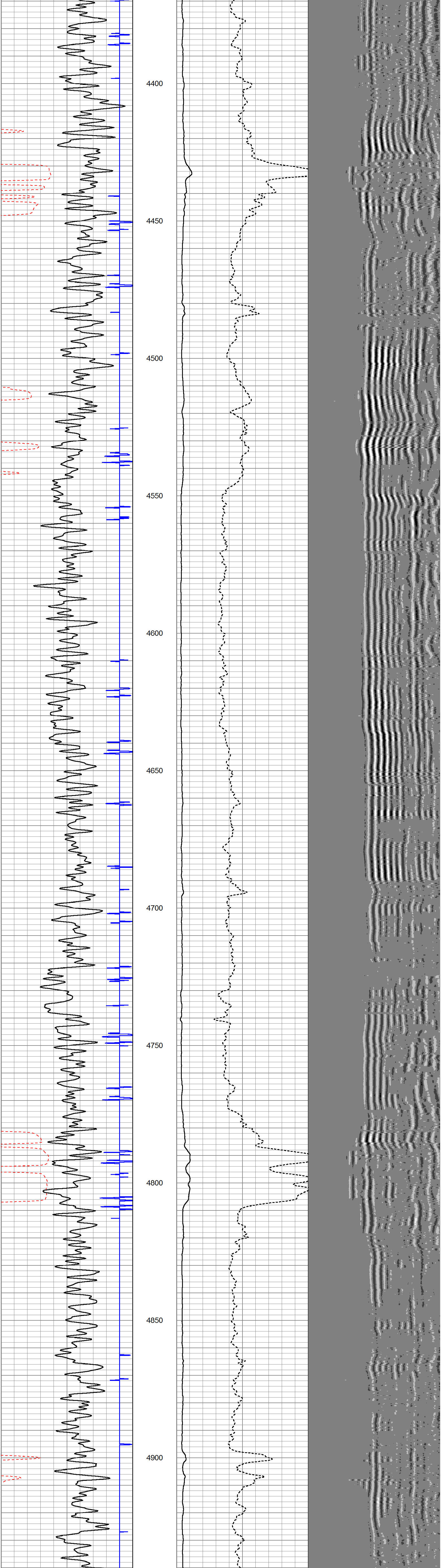


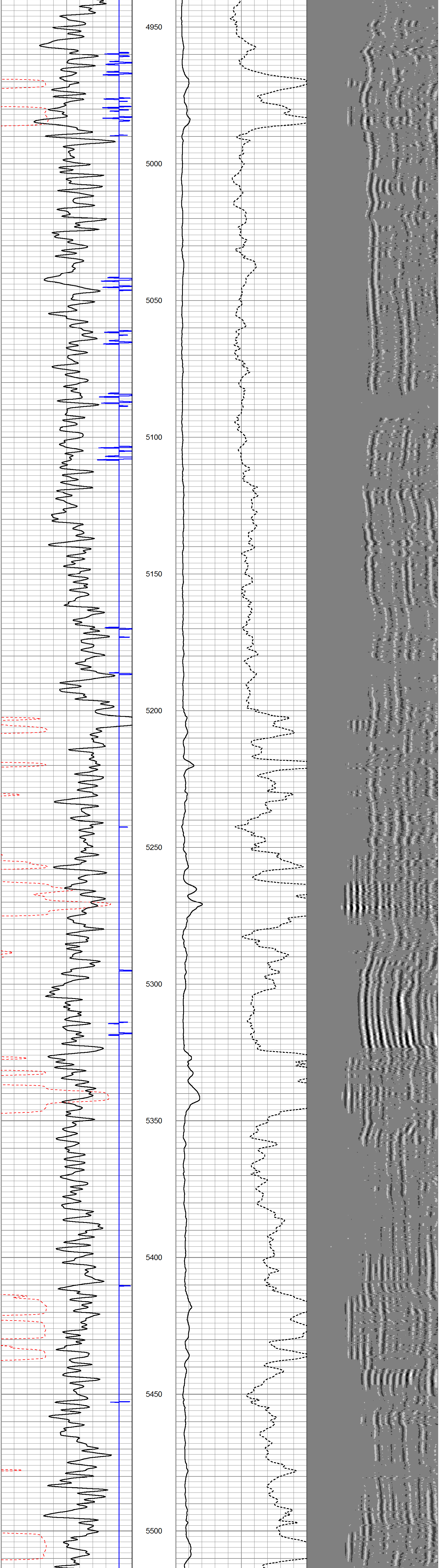


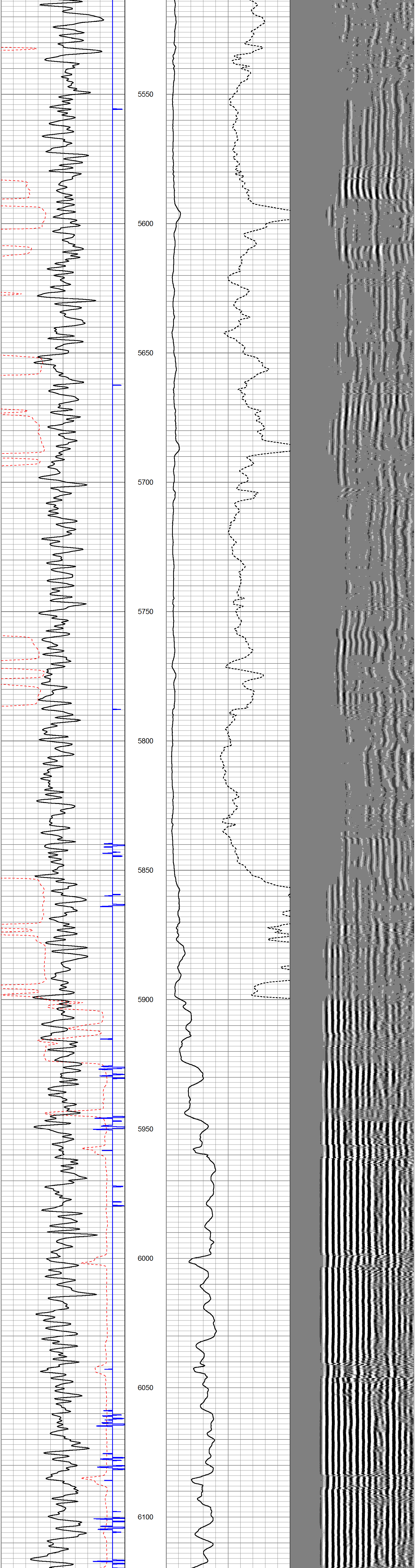


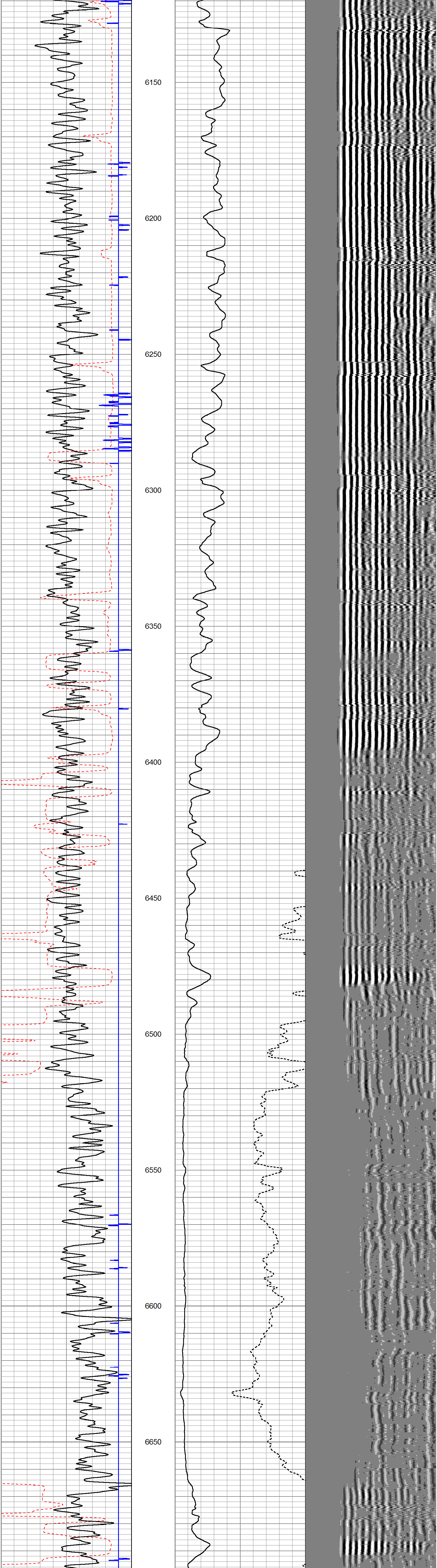


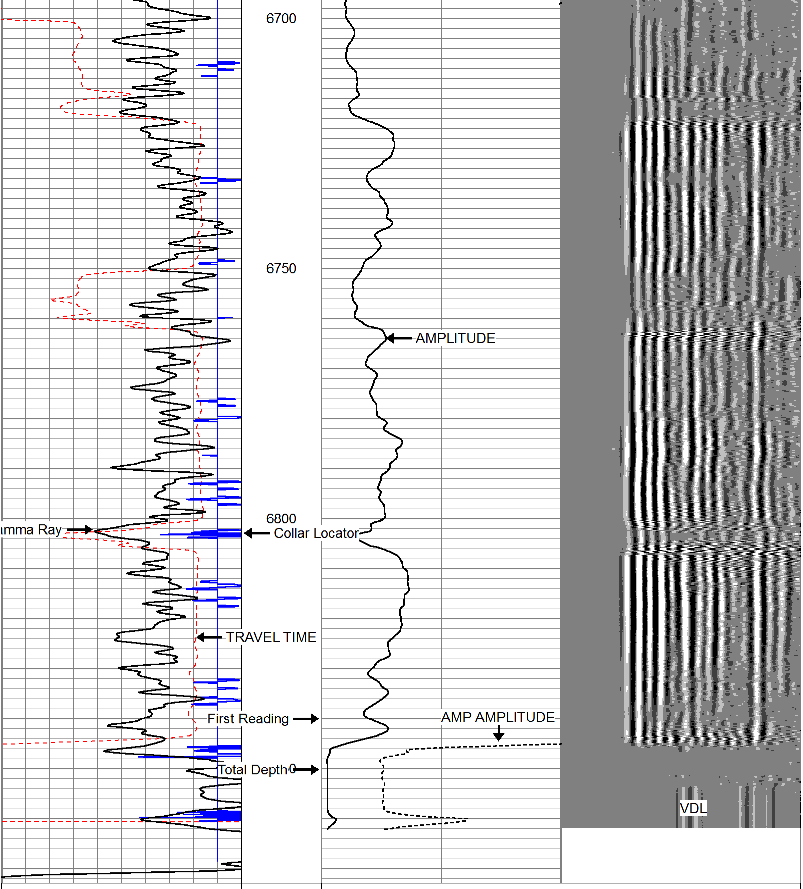












440 TRAVEL TIME (usec) 340	0 AMP AMPLITUDE (mV) 10	200 VDL 1200
9 Collar Locator -1	0 AMPLITUDE (mV) 100	
0 Gamma Ray (GAPI) 150		

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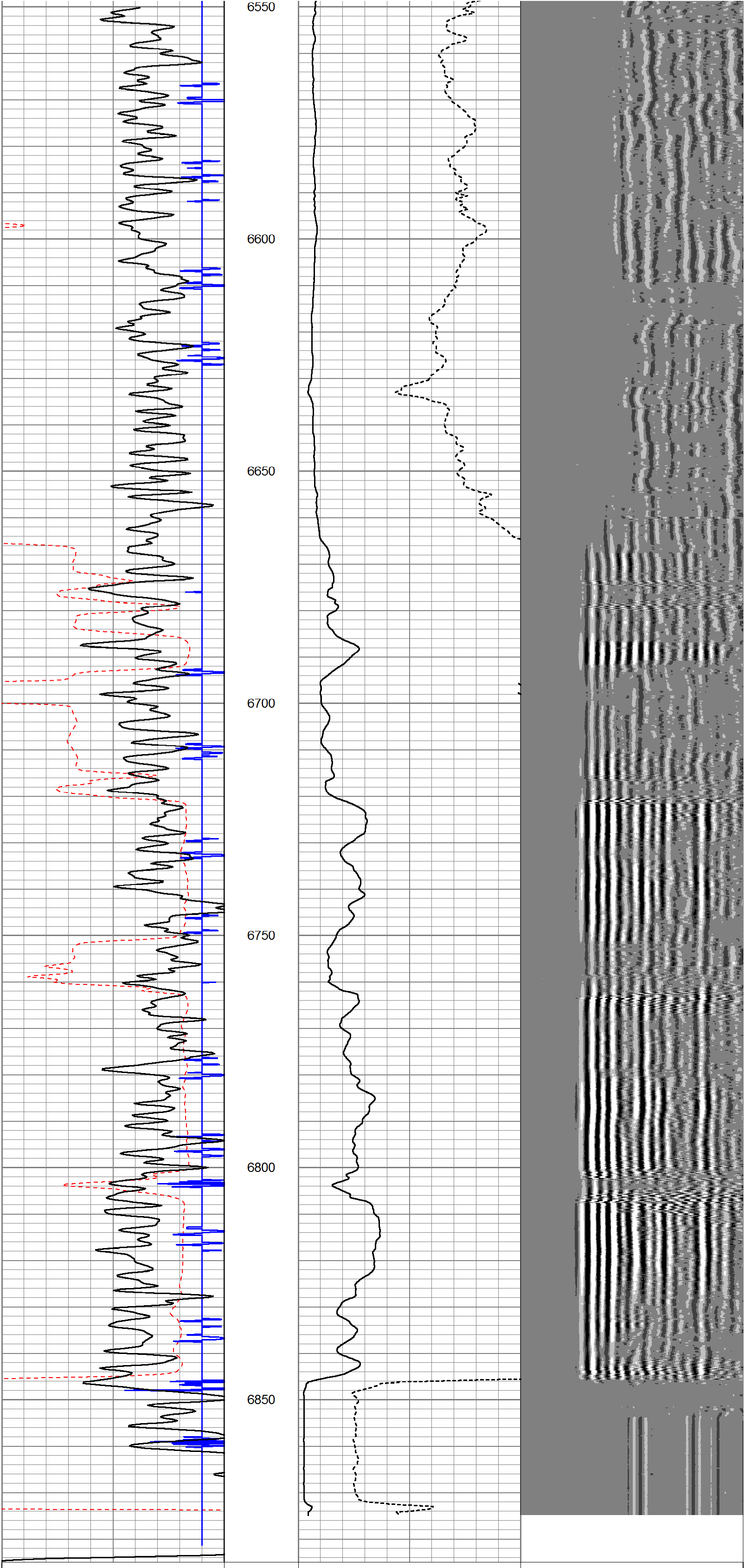
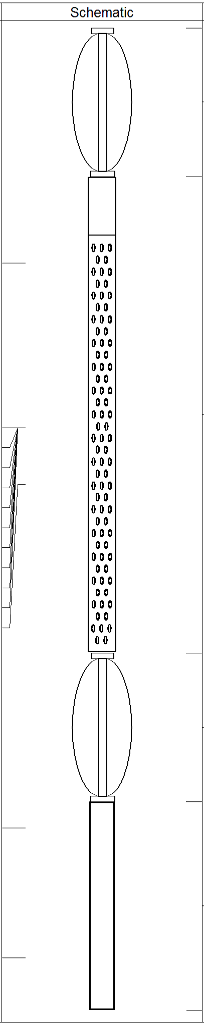
REPEAT PASS 300 PSI.

Database File:	homerdeepunit7_23ah.db
Dataset Pathname:	pass13
Presentation Format:	cbl_drs
Dataset Creation:	Thu May 14 17:40:05 2015 by Log SCH 110223
Charted by:	Depth in Feet scaled 1:240

440 TRAVEL TIME (usec) 340	0 AMP AMPLITUDE (mV) 10	200 VDL 1200
9 Collar Locator -1	0 AMPLITUDE (mV) 100	
0 Gamma Ray (GAPI) 150		



440 TRAVEL TIME (usec) 340	0 AMP AMPLITUDE (mV) 10	200 VDL 1200
9 Collar Locator -1	0 AMPLITUDE (mV) 100	
0 Gamma Ray (GAPI) 150		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Probe	2.86	2.75	40.00
IntTemp	14.36					
			RBT-Probe (060113_45) Probe Radii Bond Tool with Digital Telemetry	9.17	2.75	90.00
WVF3FT	11.19					
WVFCAL	11.19					
WVFS1	11.19					
WVFS2	11.19					
WVFS3	11.19					
WVFS4	11.19					
WVFS5	11.19					
WVFS6	11.19					
WVFS7	11.19					
WVFS8	11.19					
WVF5FT	10.11					
			Probe	2.86	2.75	40.00
CCL	3.50					
			GR-Probe (060109) Probe 2.75" 4 Channel Pulse	4.00	2.75	30.00
GR	1.00					

Dataset:	homerdeepunit7_23ah.db: field/well/run1/merge3
Total Length:	18.88 ft
Total Weight:	200.00 lb
O.D.	2.75 in

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State	COLORADO