SUPERIOR WELL SERVICES

SUPERIOR
STERLING, CO
UNIT 0700

GAMMA RAY C.C.L.
CEMENT BOND V.D.L.
TIGHT HOLE.

Company NOBLE ENERGY INC.
Well KUMMER PC LE23-17
Field WATTENBERG
County WELD

Company	NOBLE ENERGY INC.
Well	KUMMER PC LE23-17
Field	WATTENBERG
County	WELD
State	COLORADO

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Well KUMMER PC LE23-17
Field WATTENBERG
County WELD State COLORADO

Location: API # : 05.123.33302
2100' FNL' & 1250' FEL
SENE
SEC 23 TWP 8N RGE 61W

Other Services

Permanent Datum GL Elevation 4992.0
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 5005.0
D.F. 5005.0
G.L. 4992.0

Date	06.09.2011		
Run Number	ONE		
Depth Driller	7345.0		
Depth Logger	7251		
Bottom Logged Interval	7251		
Top Log Interval	1698		
Open Hole Size	7-7/8"		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	246° F		
Estimated Cement Top	1930		
Time Well Ready	MAST UNIT		
Time Logger on Bottom	1-11/16 #2		
Equipment Number	700 LH		
Location	STERLING		
Recorded By	LEROY HOBBS		
Witnessed By	MITCH TRIMBLE		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8"	24.00 / J-55	SURFACE	728.0
Prot. String				
Production String	4-1/2"	11.60 / N-80	SURFACE	7335.0
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.

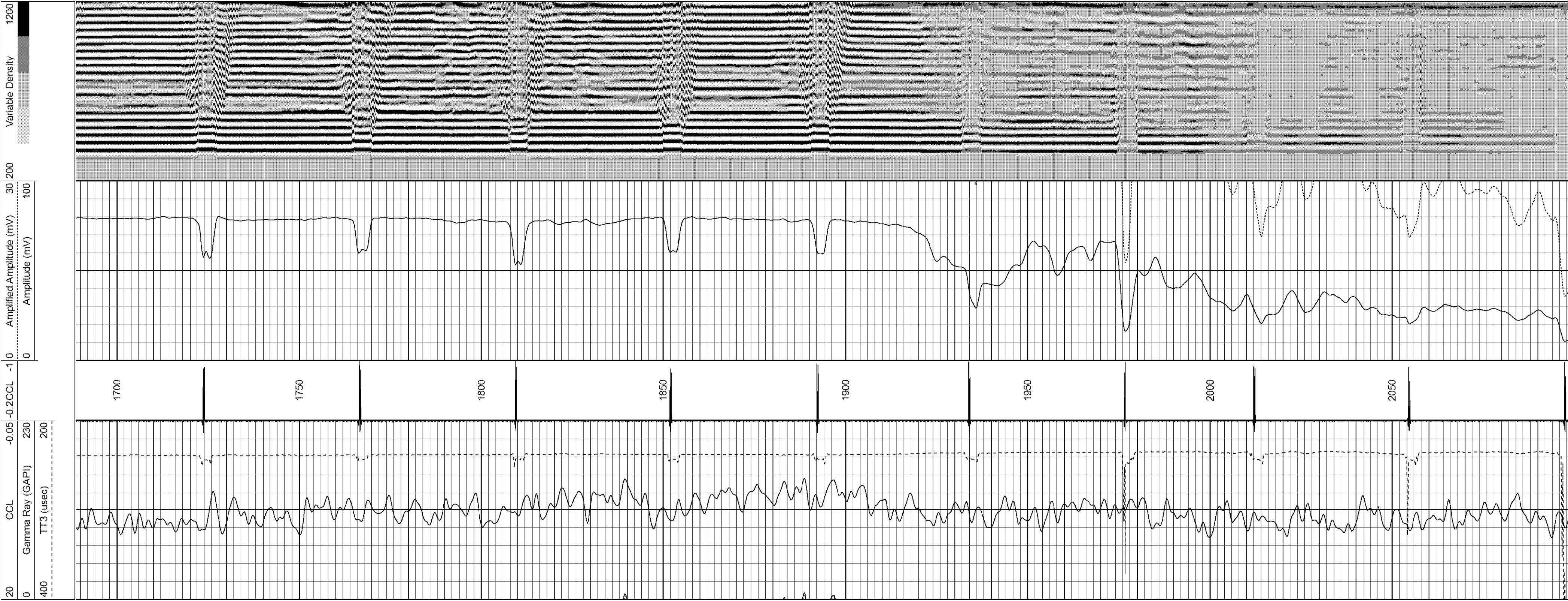
Comments

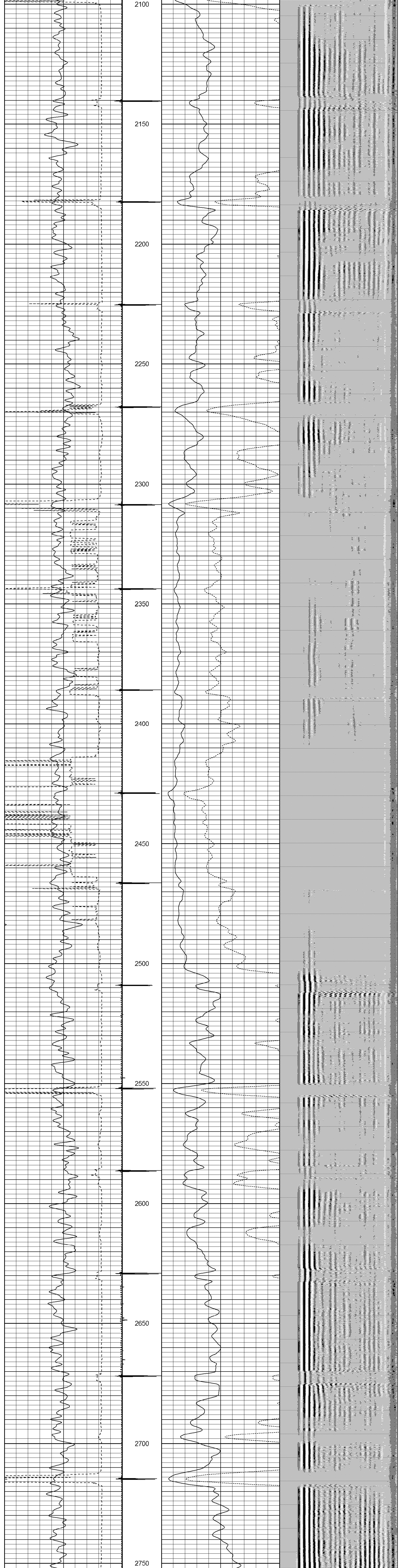
THANK YOU FOR USING SUPERIOR WELL SERVICES.

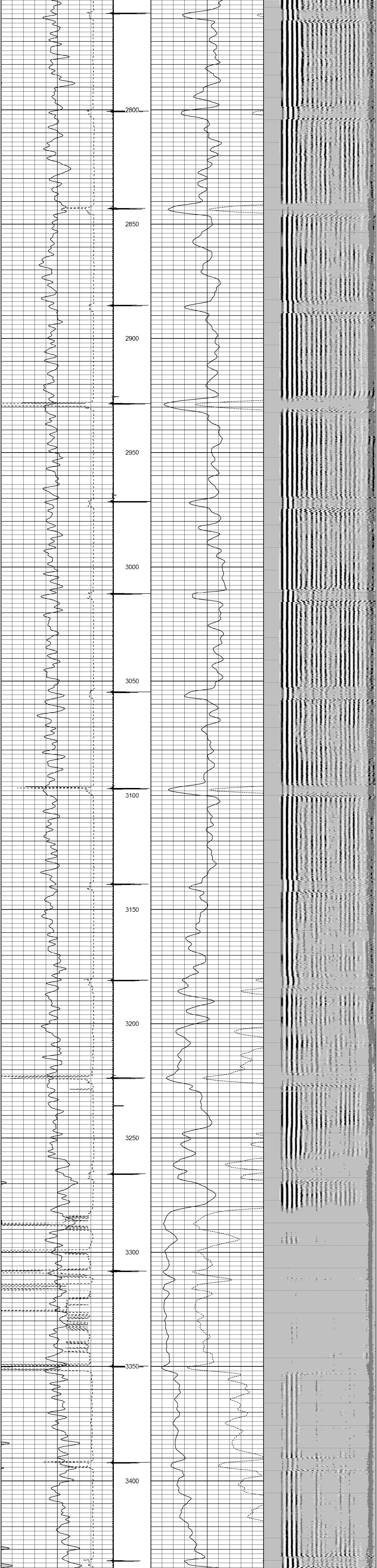
CORRECTED UP HOLE 1' TO HALLIBURTONS TRUE RESISTIVITY LOG
DATED 30-MAY-11.

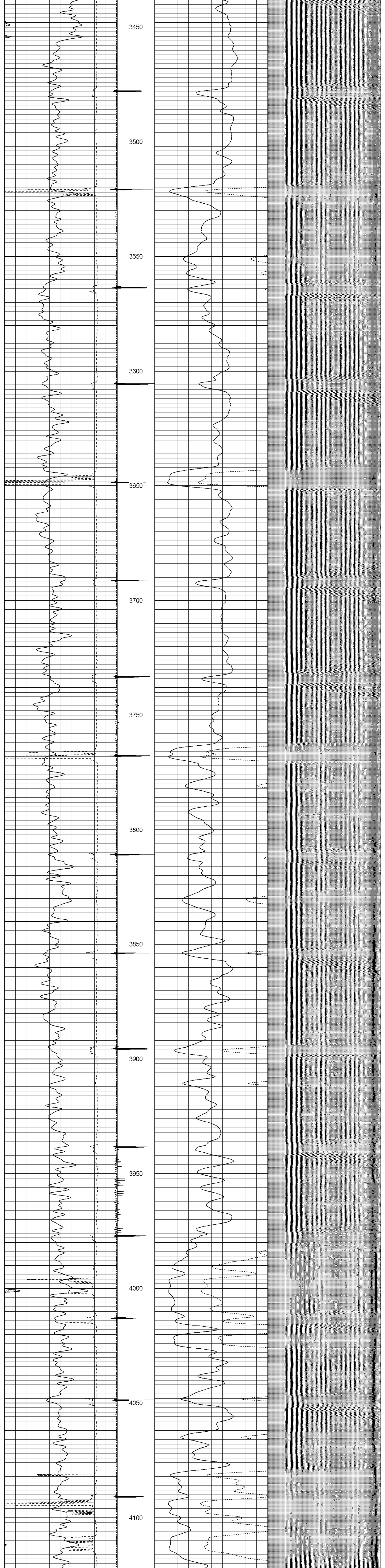
!!!!!!!!!!!TIGHT HOLE!!!!!!!!!!!

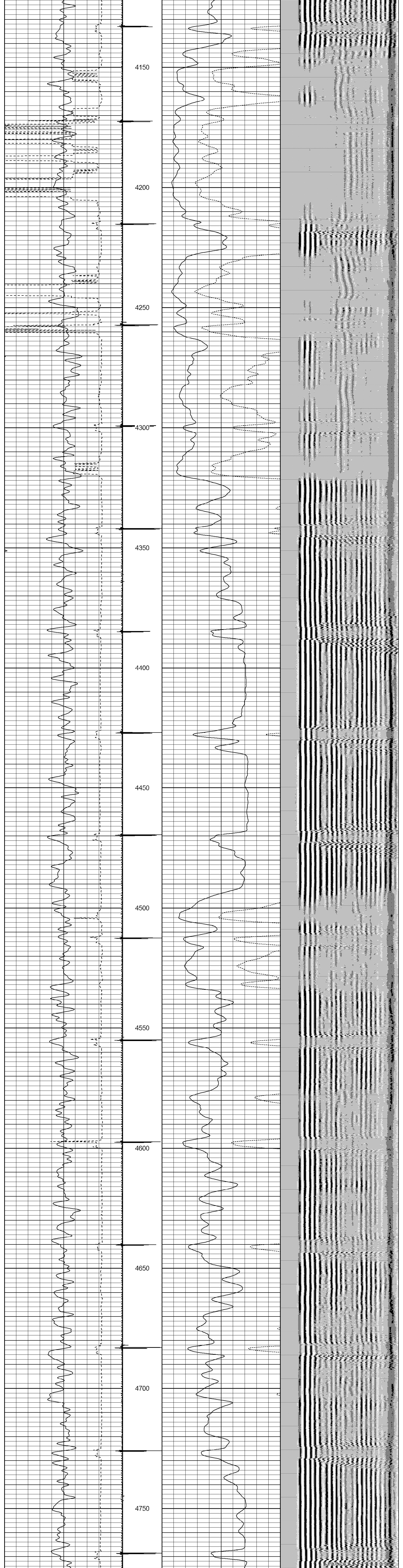
Database File:	kummerpcle23-17cbl.db
Dataset Pathname:	pass3
Presentation Format:	nuexcbl
Dataset Creation:	Thu Jun 09 09:46:19 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

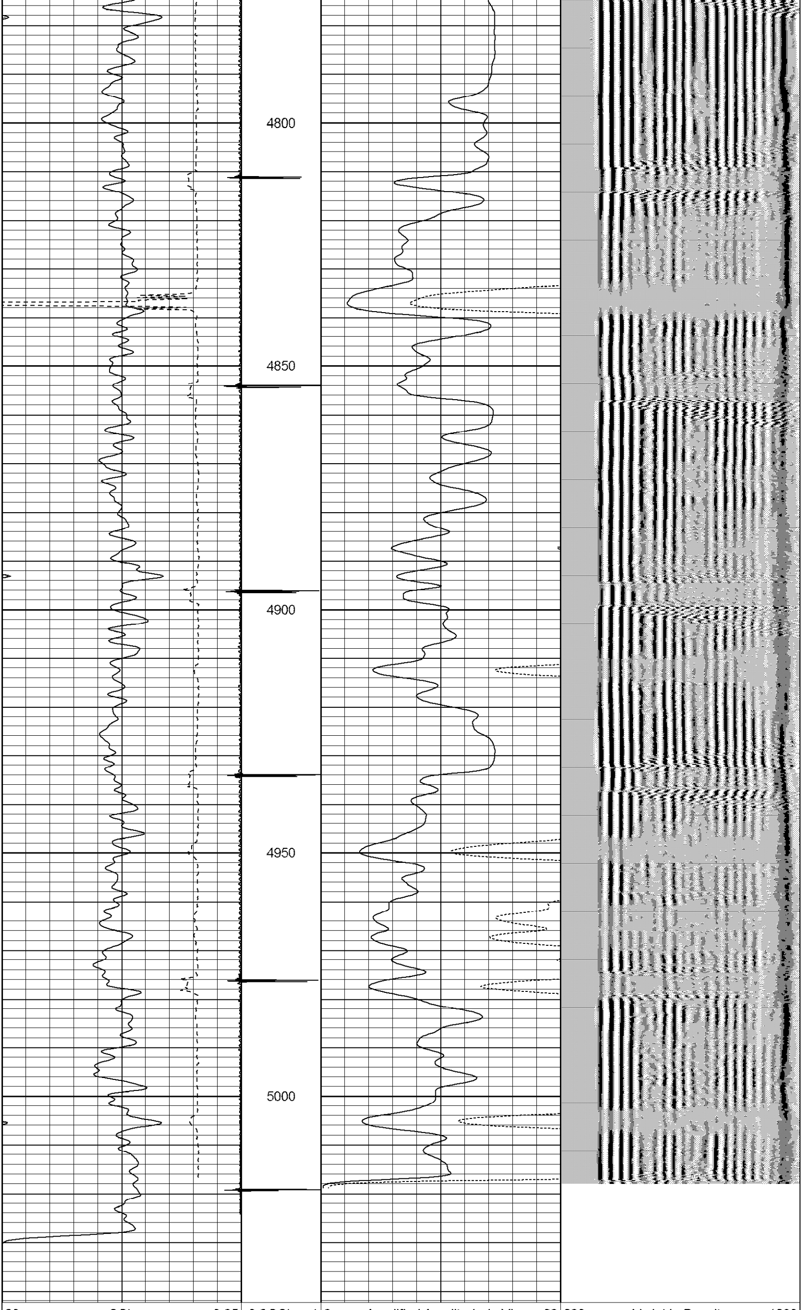








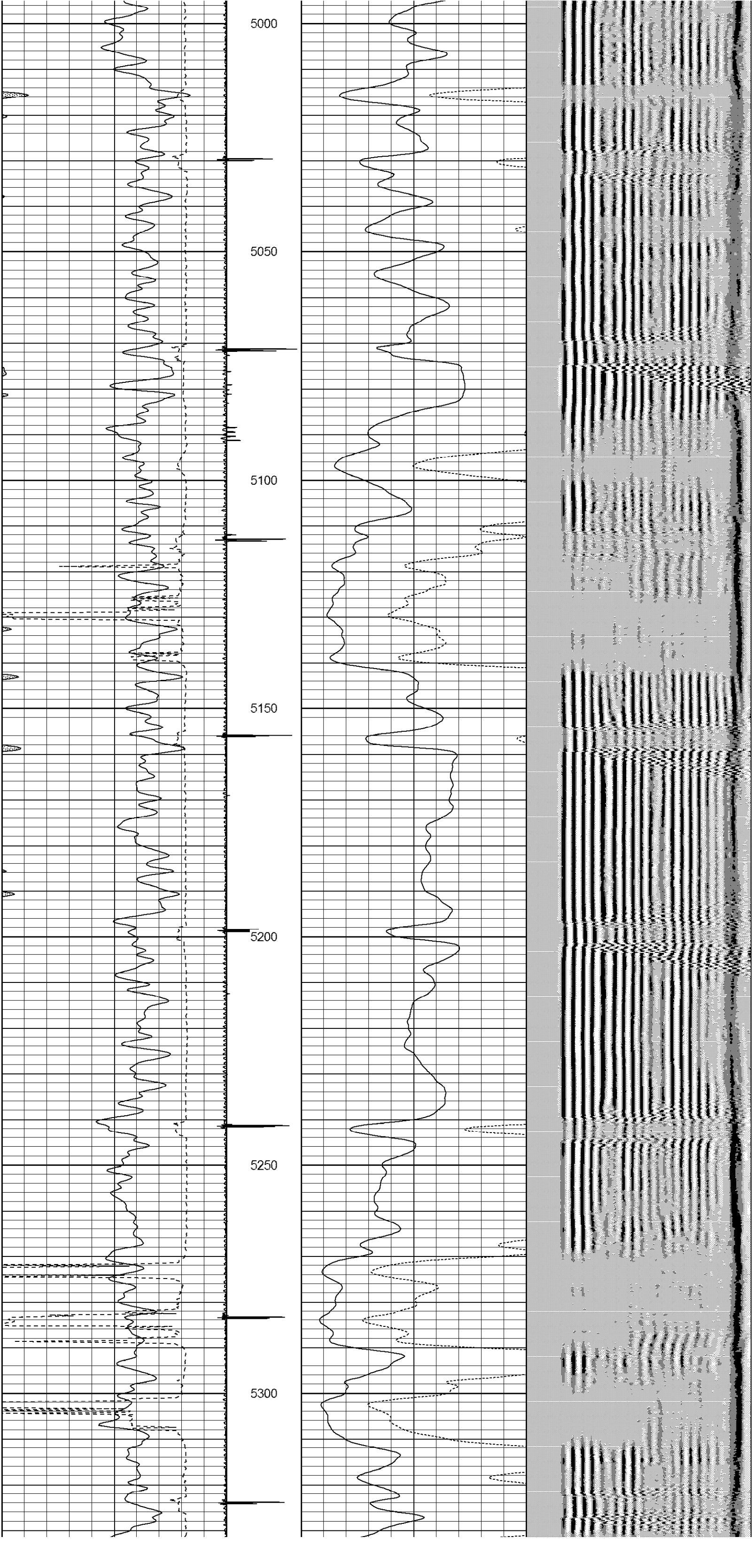


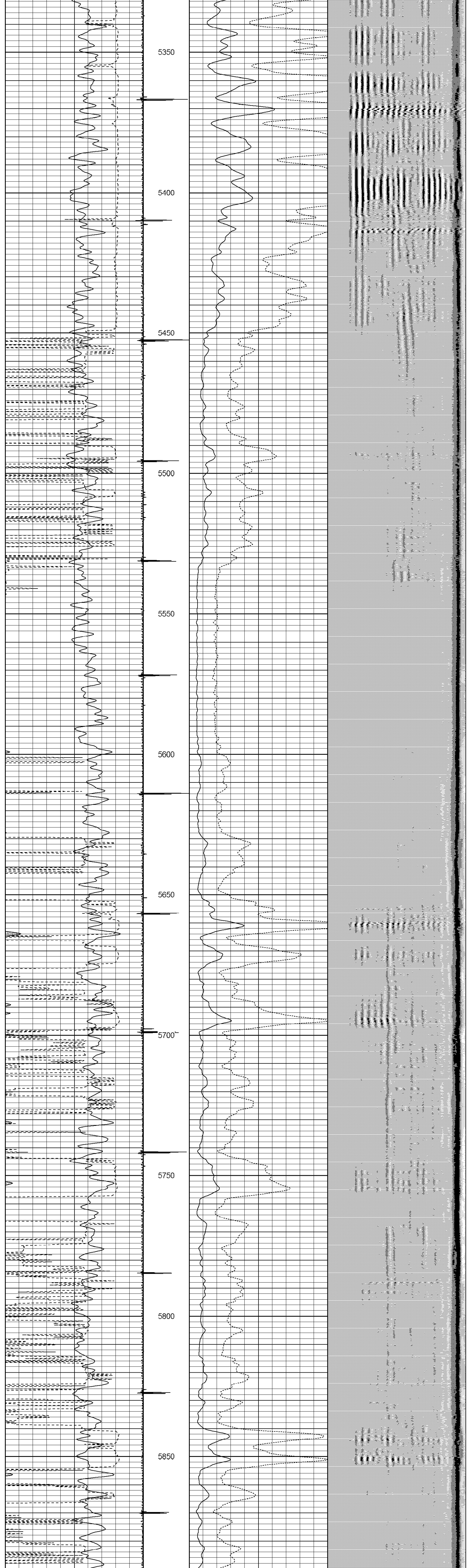


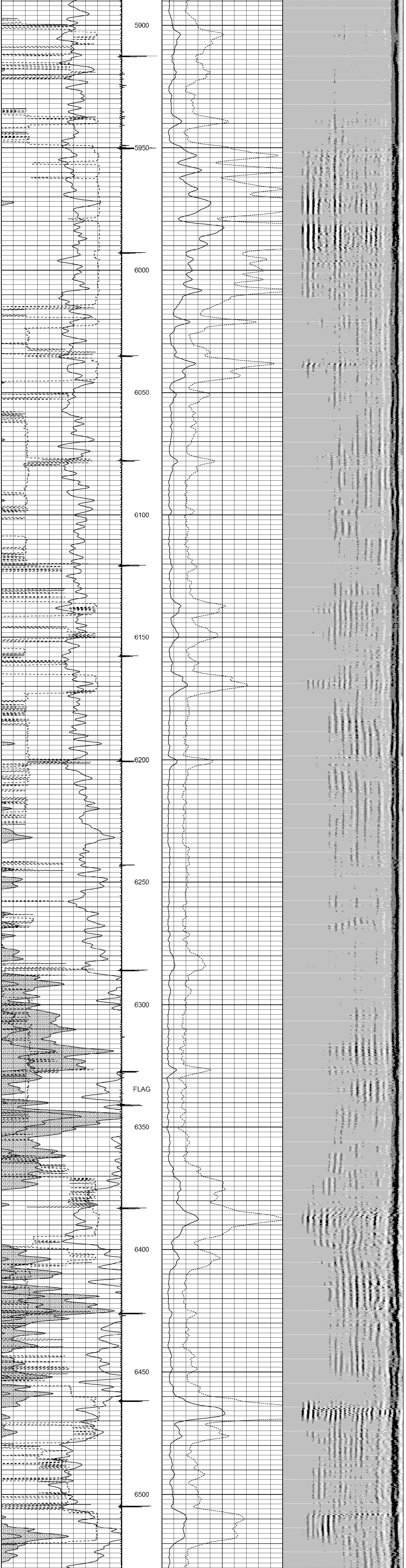
20 CCL -0.05
-0.2CCL -1
0 Amplified Amplitude (mV) 30
200 Variable Density 1200
0 Gamma Ray (GAPI) 230
0 Amplitude (mV) 100
400 TT3 (usec) 200

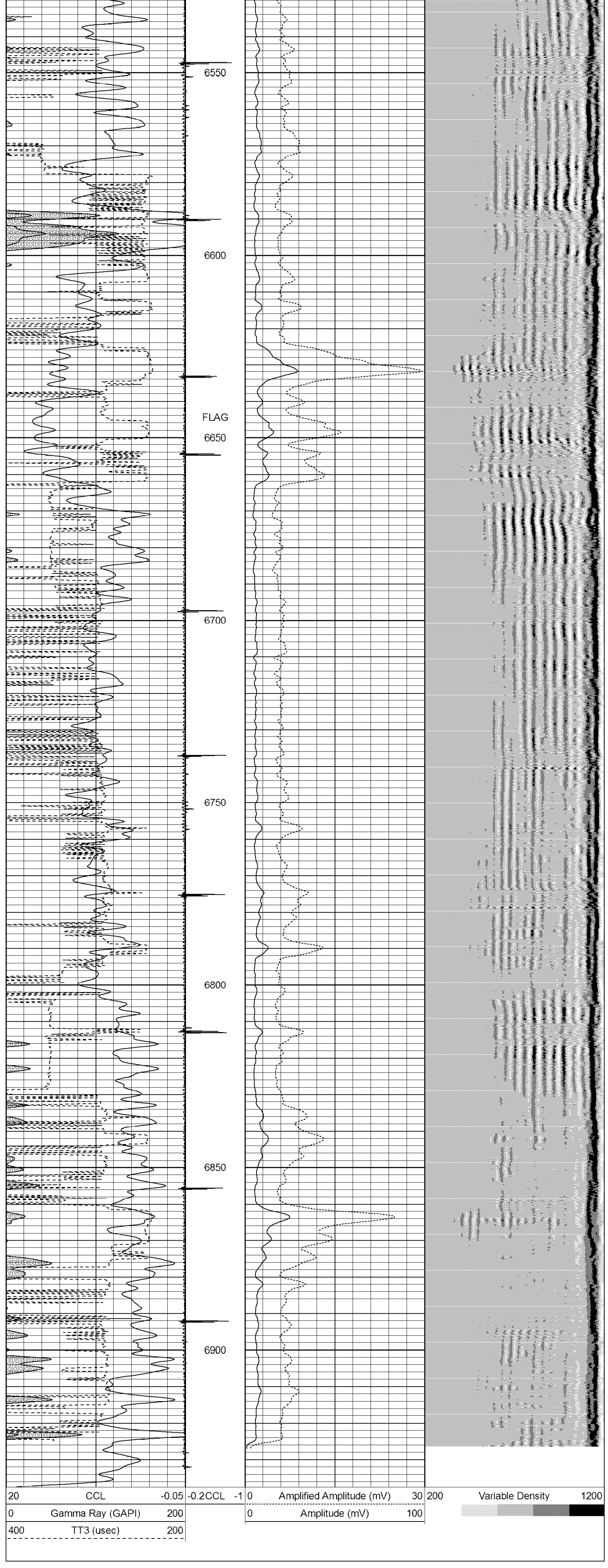
Database File:	kummerpcle23-17cbl.db
Dataset Pathname:	pass2
Presentation Format:	nuexcbl
Dataset Creation:	Thu Jun 09 09:25:00 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

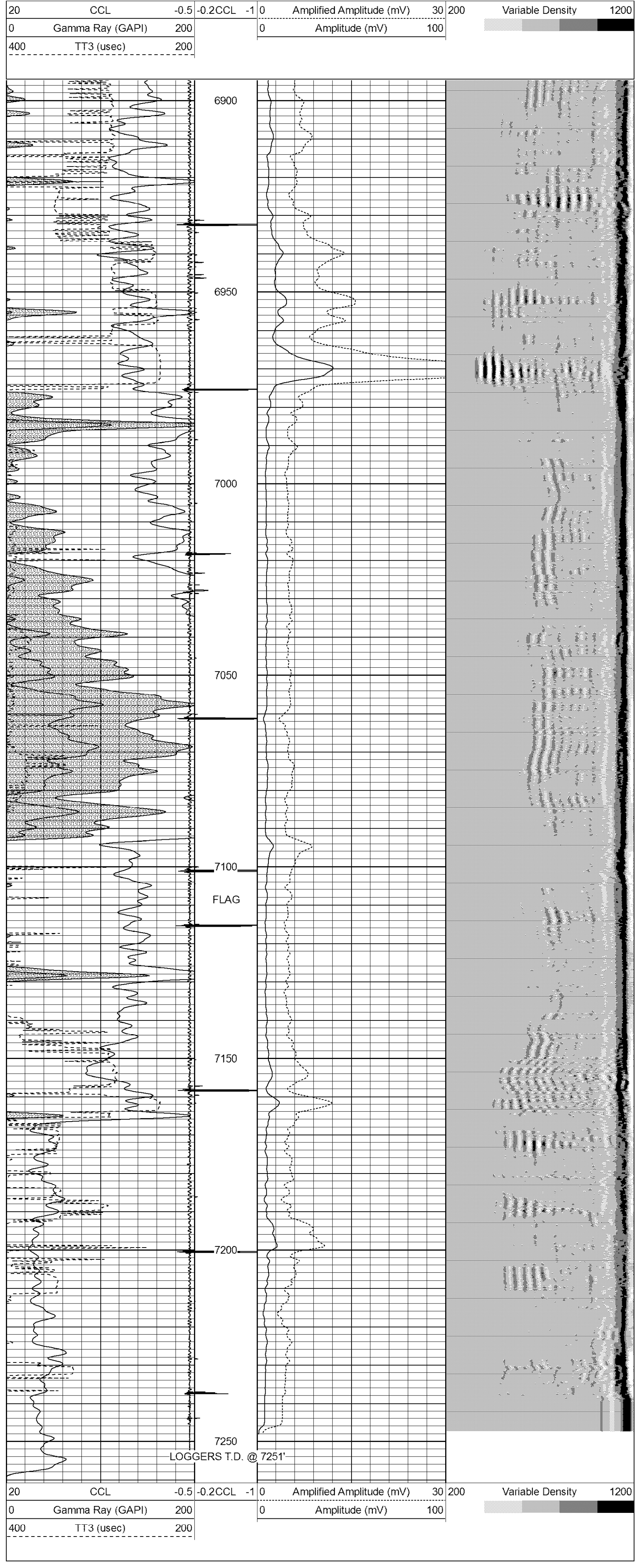
20 CCL -0.05
-0.2CCL -1
0 Amplified Amplitude (mV) 30
200 Variable Density 1200
0 Gamma Ray (GAPI) 200
0 Amplitude (mV) 100
400 TT3 (usec) 200









Database File: kummerpcle23-17cbl.db
Dataset Pathname: pass1
Presentation Format: nuexcbl
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Charted by: Depth in Feet scaled 1:240