



CEMENT BOND LOG
GAMMA RAY
CCL

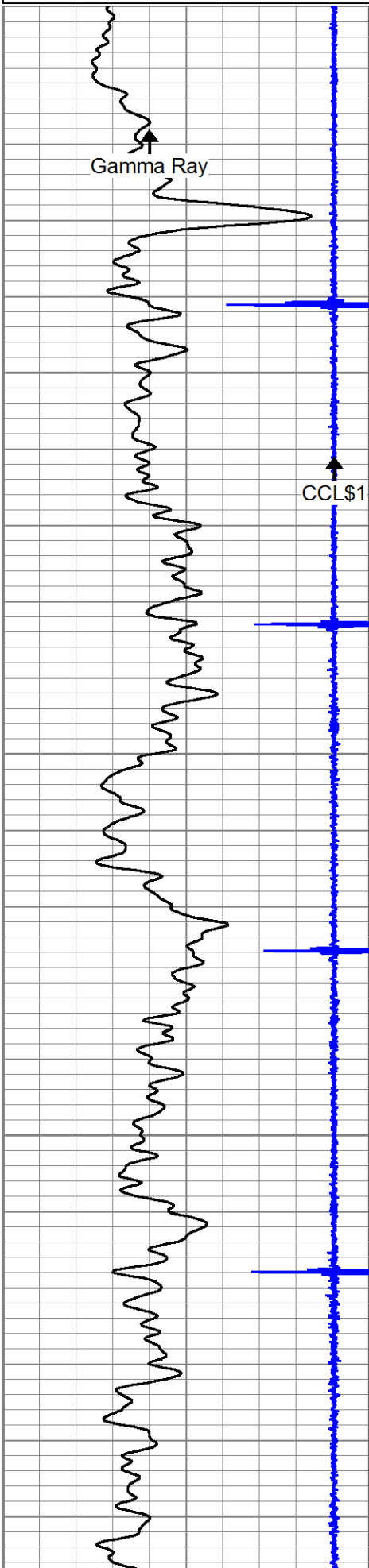
Company	PDC ENERGY INC	Location:	API # : 05-123-24268	Other Services
Well	HARVESTER 42-15			
Field	WATTENBERG			
County	WELD			
State	COLORADO			
Permanent Datum	SEC 15 TWP 6N RGE 66W.	Elevation		
Log Measured From		K.B.		
Drilling Measured From		D.F.		
		G.L.		
Date	2-23-17			
Run Number	1			
Depth Driller	NA			
Depth Logger	600			
Bottom Logged Interval	600			
Top Log Interval	SURFACE			
Casing Driller	NA			
Casing Logger	NA			
Bit Size	NA			
Type Fluid in Hole	WATER			
Density / Viscosity	8.3			
pH / Fluid Loss	NA			
Source of Sample	NA			
Rm @ Meas. Temp	NA			
Rmf @ Meas. Temp	NA			
Rmc @ Meas. Temp	NA			
Source of Rmf / Rmc	NA			
Rm @ BHT	NA			
Time Circulation Stopped	NA			
Time Logger on Bottom	NA			
Maximum Recorded Temperature	NA			
Equipment Number	NA			
Location	NA			
Recorded By	J.JOHNSON			
Witnessed By	MR. RYAN BEAM			

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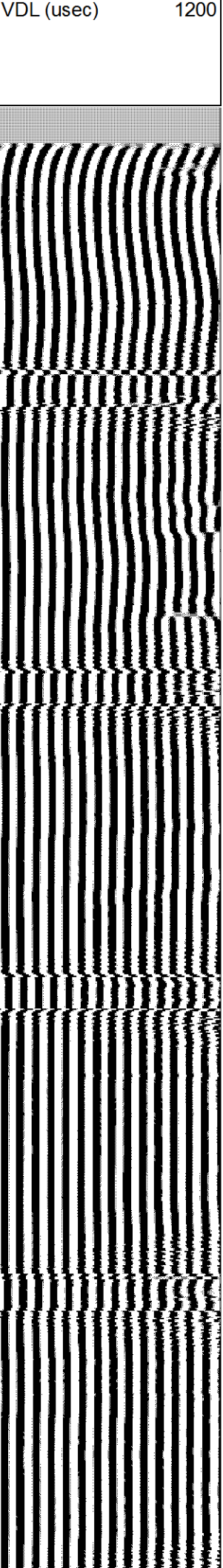
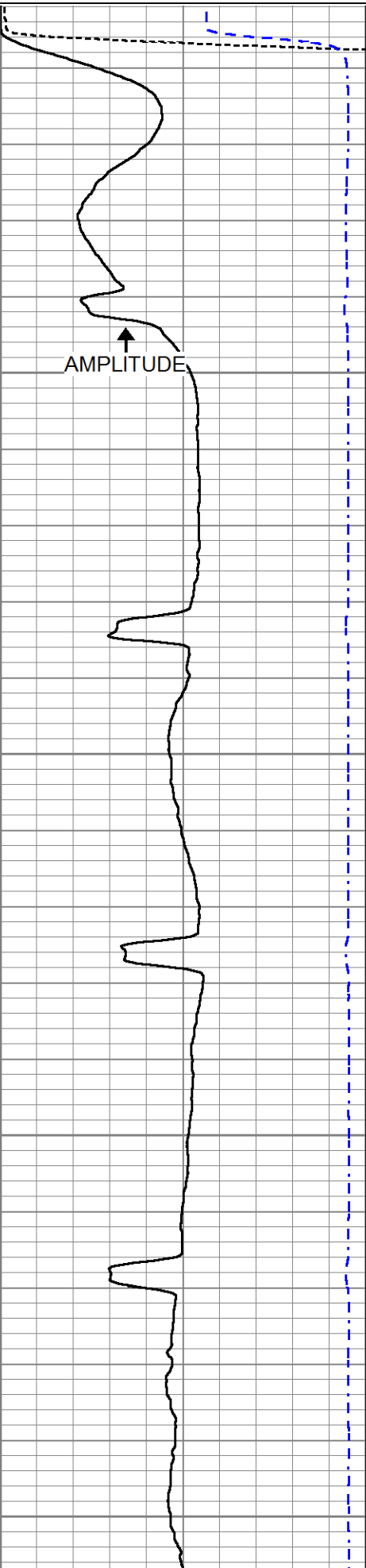
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

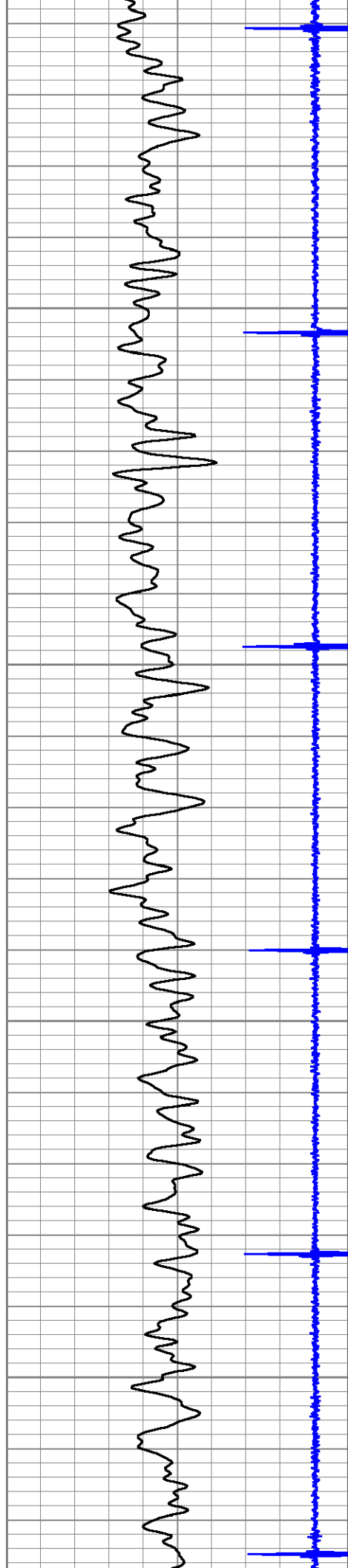
Comments

9	CCL\$1	-1
0	Gamma Ray (GAPI)	150
0	Line Speed (ft/min)	100



0	AMP AMPLITUDE (mV)	10	200
0	AMPLITUDE (mV)	100	
1200	TRAVEL TIME (usec)	200	



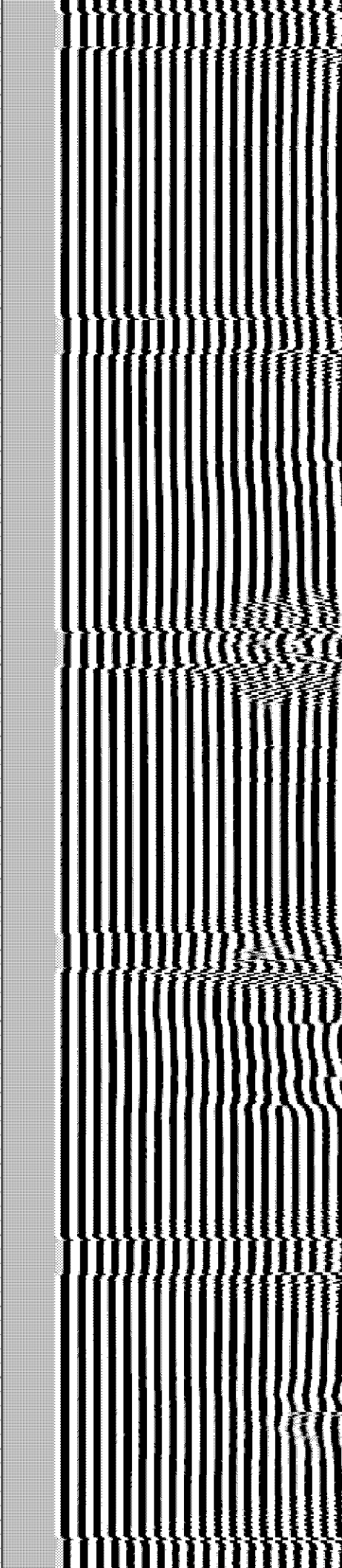
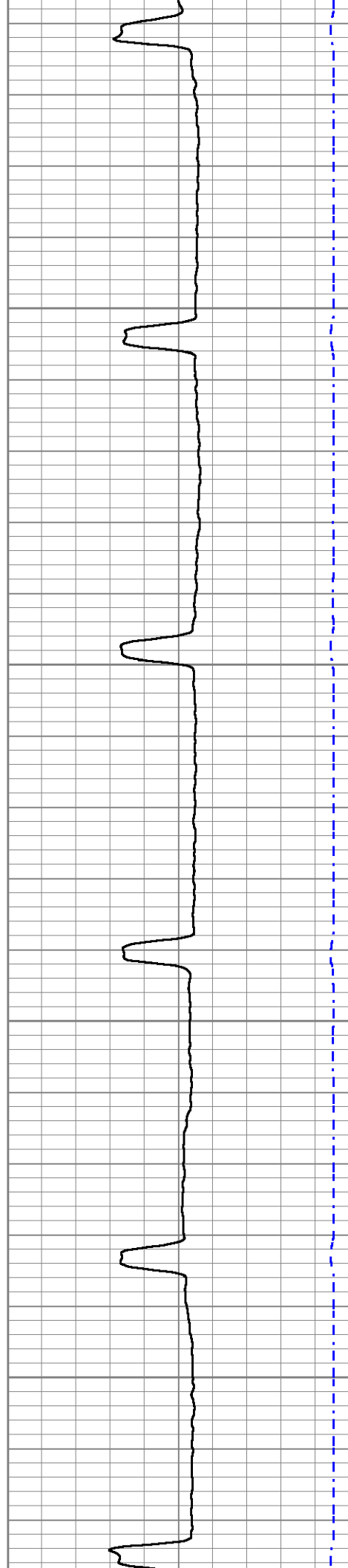


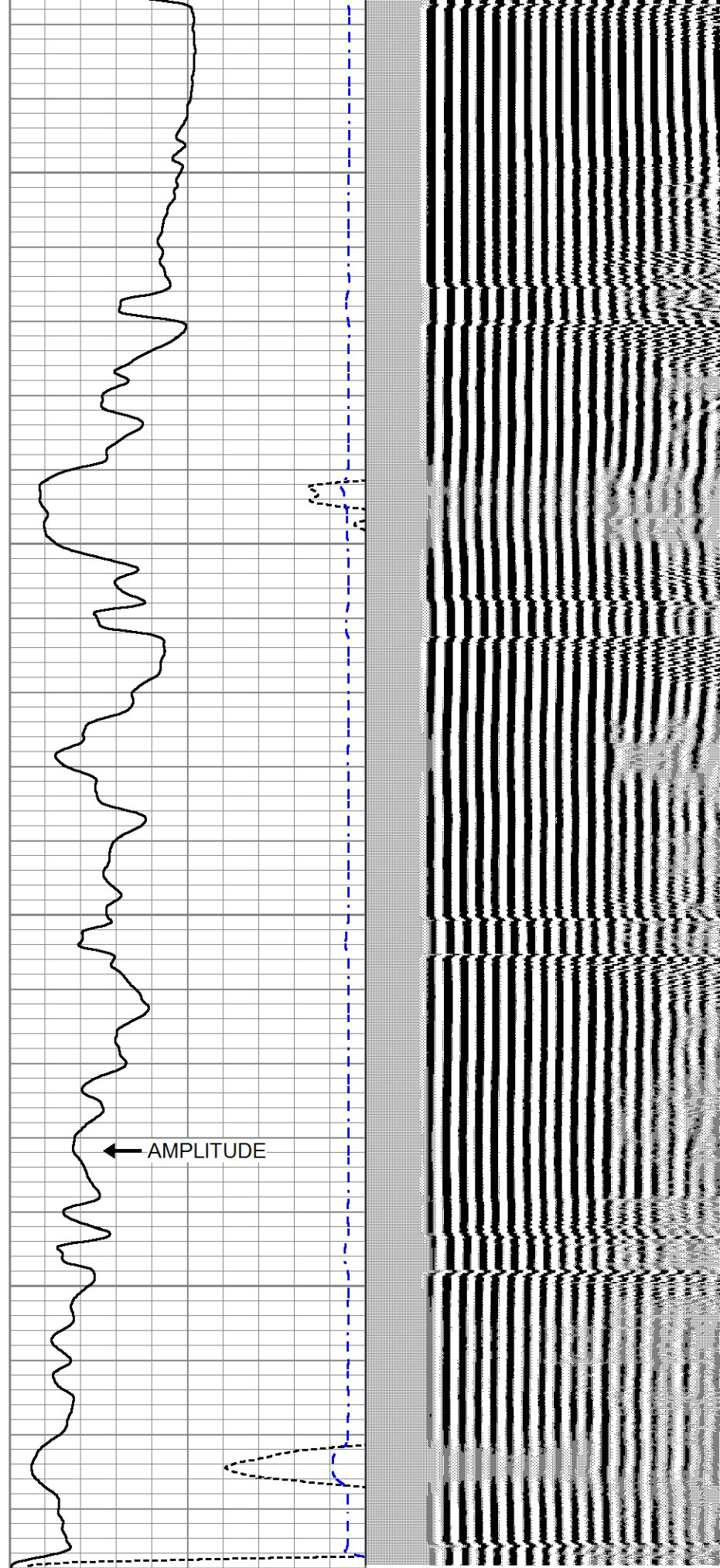
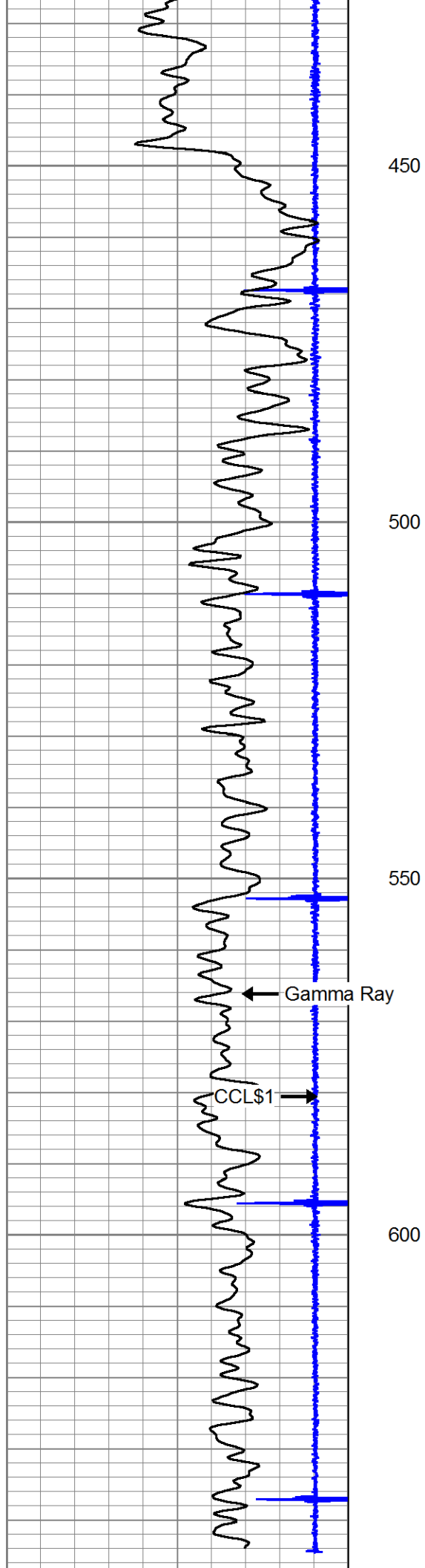
250

300

350

400





9	CCL\$1	-1	0	AMP AMPLITUDE (mV)	10	200	VDL (usec)	1200
0	Gamma Ray (GAPI)	150	0	AMPLITUDE (mV)	100			
0	Line Speed (ft/min)	100	1200	TRAVEL TIME (usec)	200			