

CEMENT BOND LOG  
4-TRACK PRESENTATION  
FINAL PRINT

Company CONOCOPHILLIPS  
Well CARTER UTE 4A  
Field MESA VERDE  
County SAN JUAN  
State COLORADO

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Well CARTER UTE 4A  
Field MESA VERDE  
County SAN JUAN State COLORADO

Location: API 05-067-08174 Other Services  
990' FSL & 2145' FEL  
SEC 11 TWP 32N RGE 10W  
Permanent Datum G. L. Elevation 6668'  
Log Measured From RKB 12'  
Drilling Measured From RIG KELLY BUSHING  
Elevation  
K.B. 6680'  
D.F. 6679'  
G.L. 6668'

Date 8/12/13

Run Number ONE  
Depth Driller 6090'  
Depth Logger 4885'  
Bottom Logged Interval 4885'  
Top Log Interval SURF.  
Open Hole Size 6.25"  
Type Fluid H2O  
Density / Viscosity  
Max. Recorded Temp.  
Estimated Cement Top  
Time Well Ready 11:00  
Time Logger on Bottom 11:30  
Equipment Number D-8 SDS DRC  
Location FRM  
Recorded By T. LUTHER  
Witnessed By MR. JIM MORRIS

Run Number Bit From To Size Weight From To

Casing Record Size Weight Top Bottom  
Surface String 9 5/8" 32.3# H40 SURF. 338'

Prot String 7" 23# J-55 SURF. 3569'  
Production String 4.5" 10 5/8# J-55 3438' 6089'  
Linef

Hold 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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			SIE2	2.20	2.25	25.00

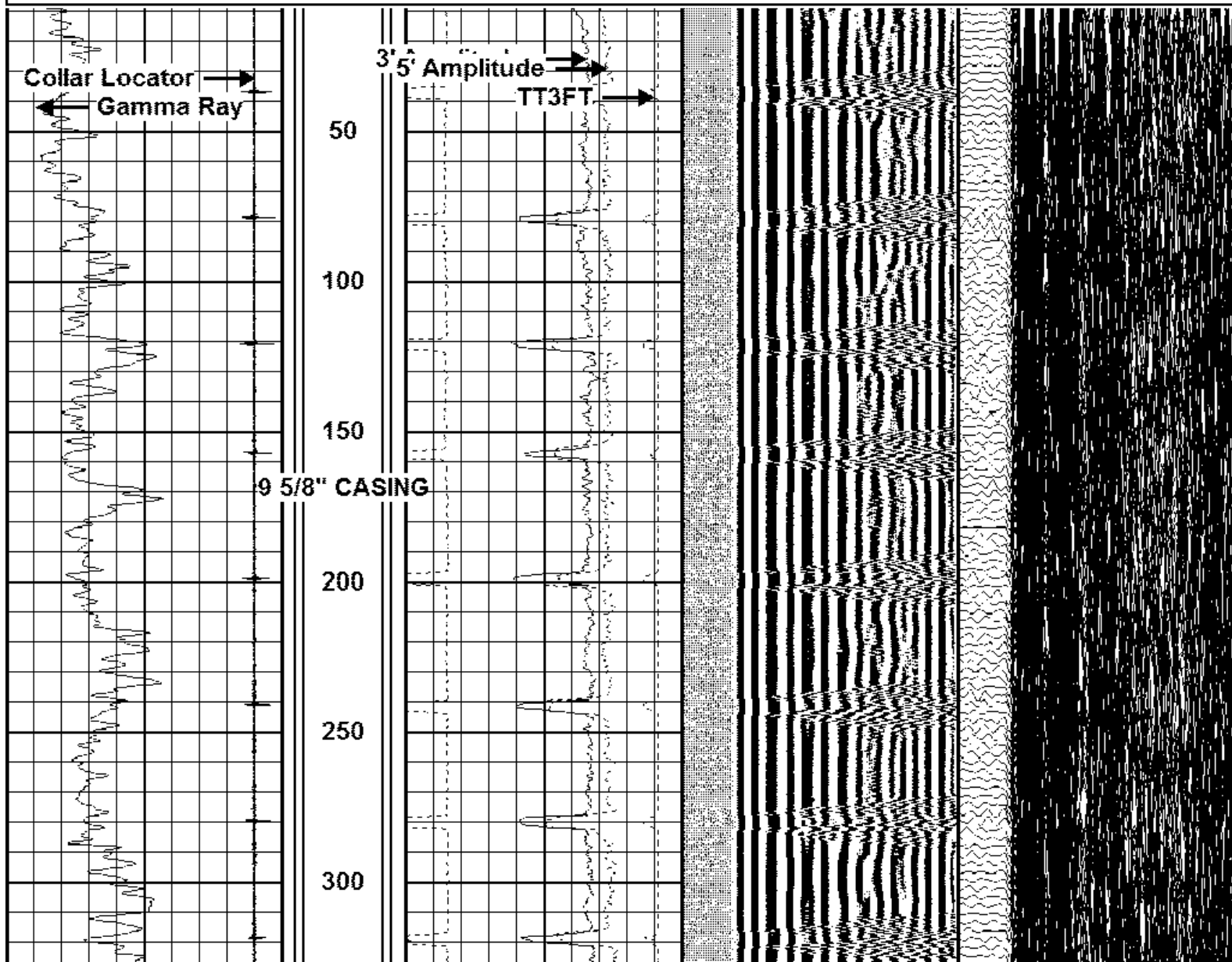
			SIE Centralizer			
CCL	18.00					
GR	13.30					
			SIE (DRC) SIE 3 3/8" Dual Receiver	16.83	3.25	200.00
WVF5FT	7.41					
WVF3FT	6.41					
WVFSYNC	2.20					
			SIE2 SIE Centralizer	2.20	2.25	25.00
Dataset: copcarterute4amvcbl.db: fieldmv/weilcarterute4a/run1/pass5 Total length: 21.23 ft Total weight: 250.00 lb O.D.: 3.25 in						

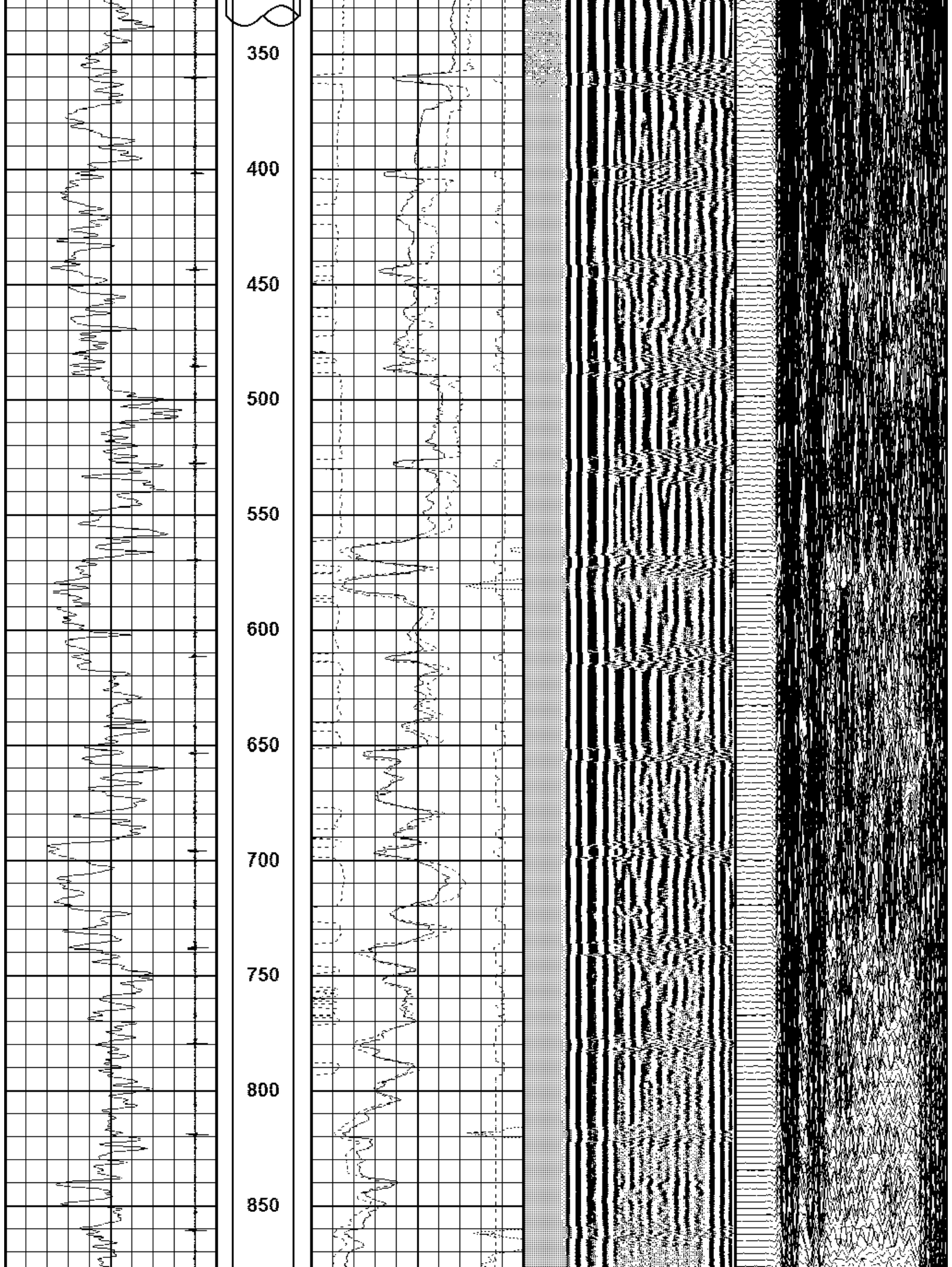


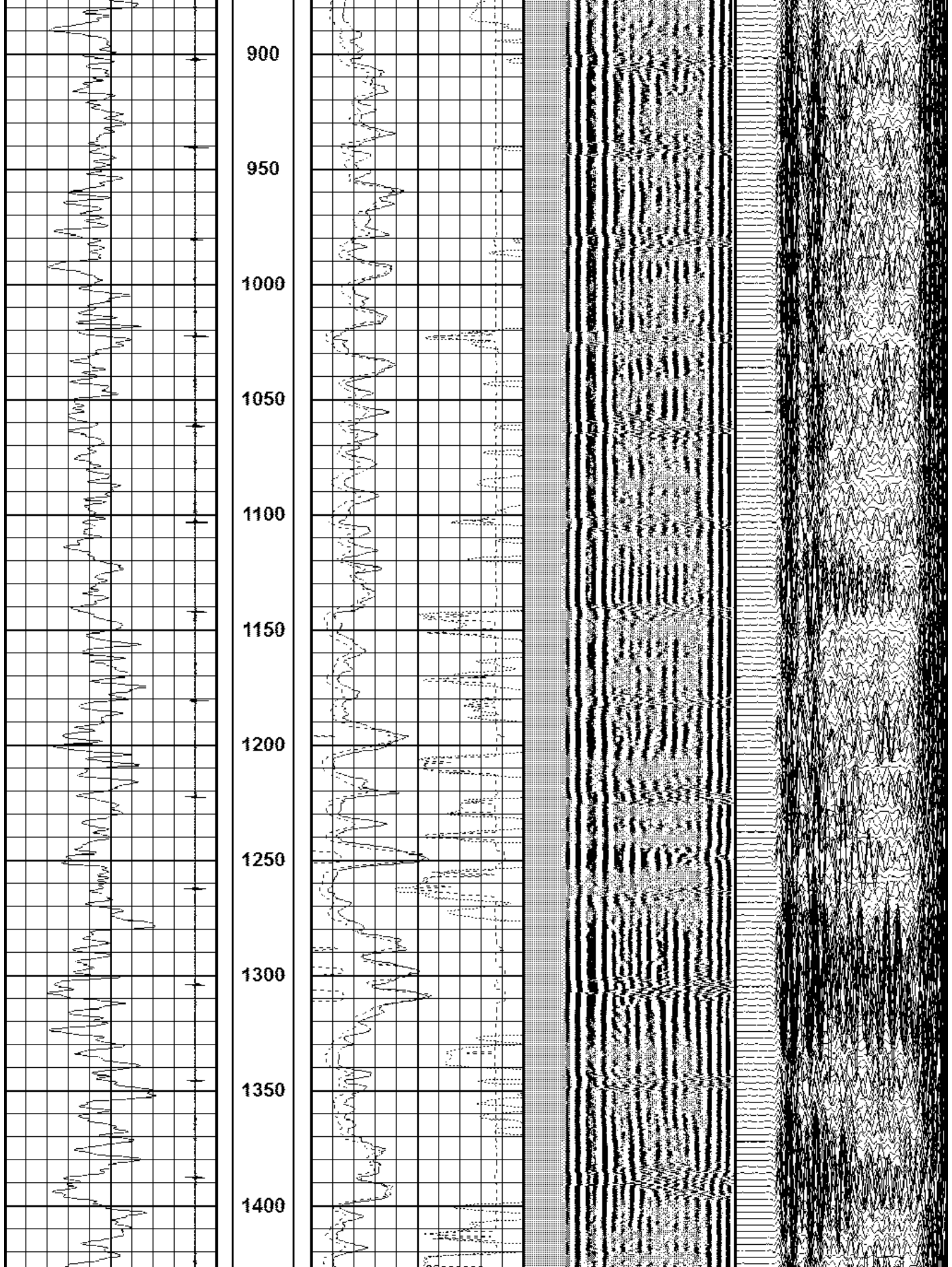
MAIN PASS 7" CASING

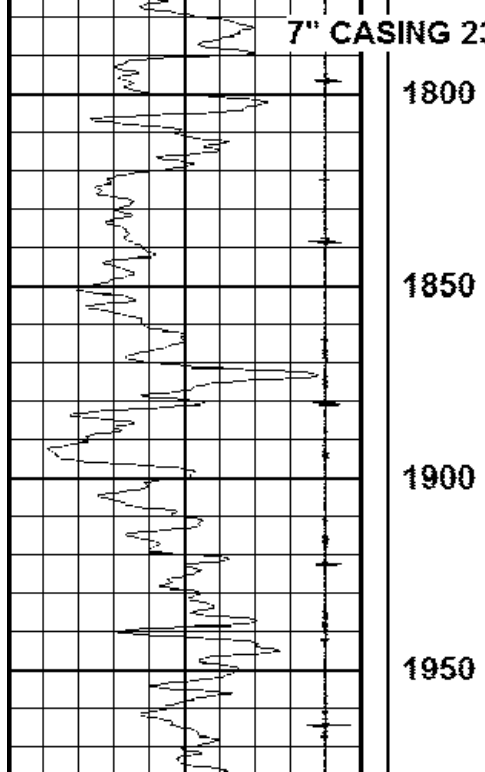
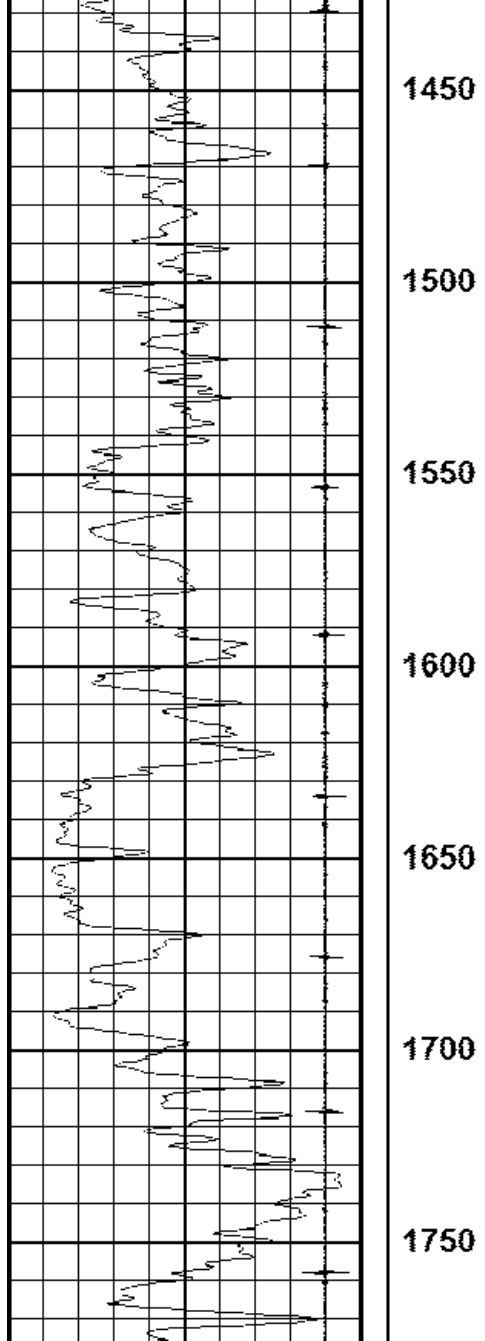
Database File copcarterute4amvcbl.db  
 Dataset Pathname fieldmv/wellcarterute4a/run1/pass5  
 Presentation Format cbl7inplo  
 Dataset Creation Mon Aug 12 12:02:33 2013  
 Charted by Depth in Feet scaled 1:600

9	Collar Locator	-1		Amplitude X5	200	VDL	1200	200	WVF5FT	1200
0	Gamma Ray	200	0	(mV)	16					
				3' Amplitude						
			0	(mV)	80					
				TT3FT						
			1200	(usec)	200					
				Travel Time X10						
			300	(usec)	200					
				5' Amplitude						
			0	(mV)	80					

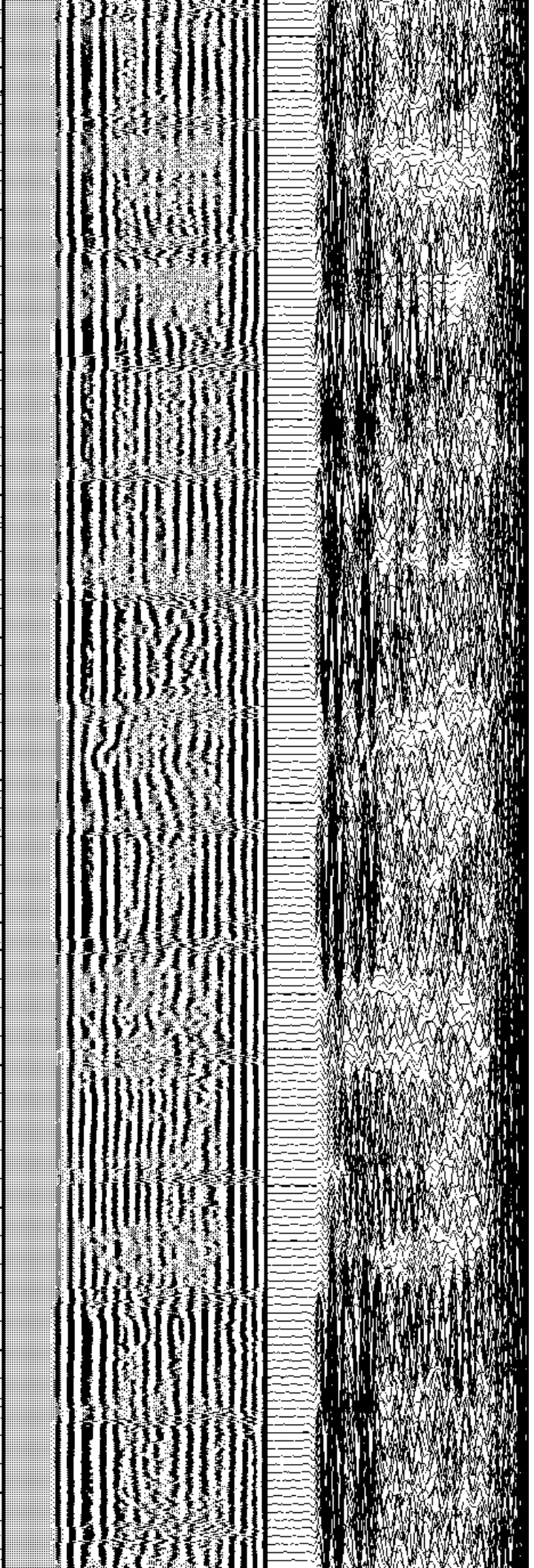
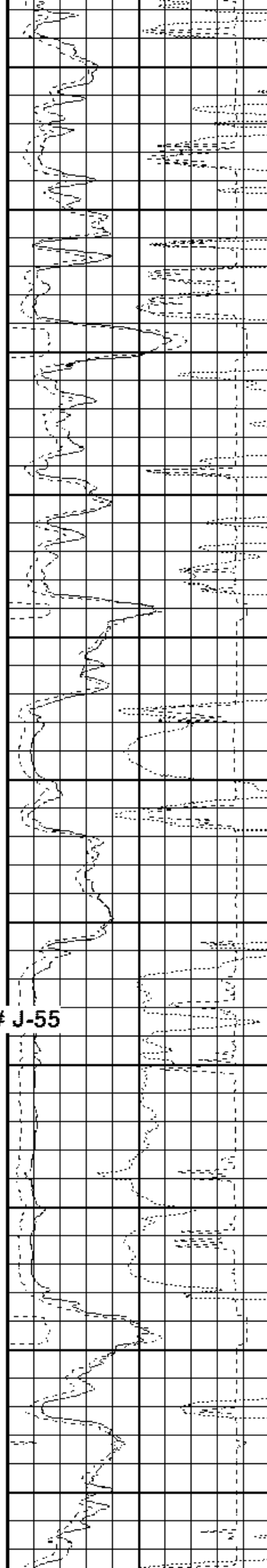




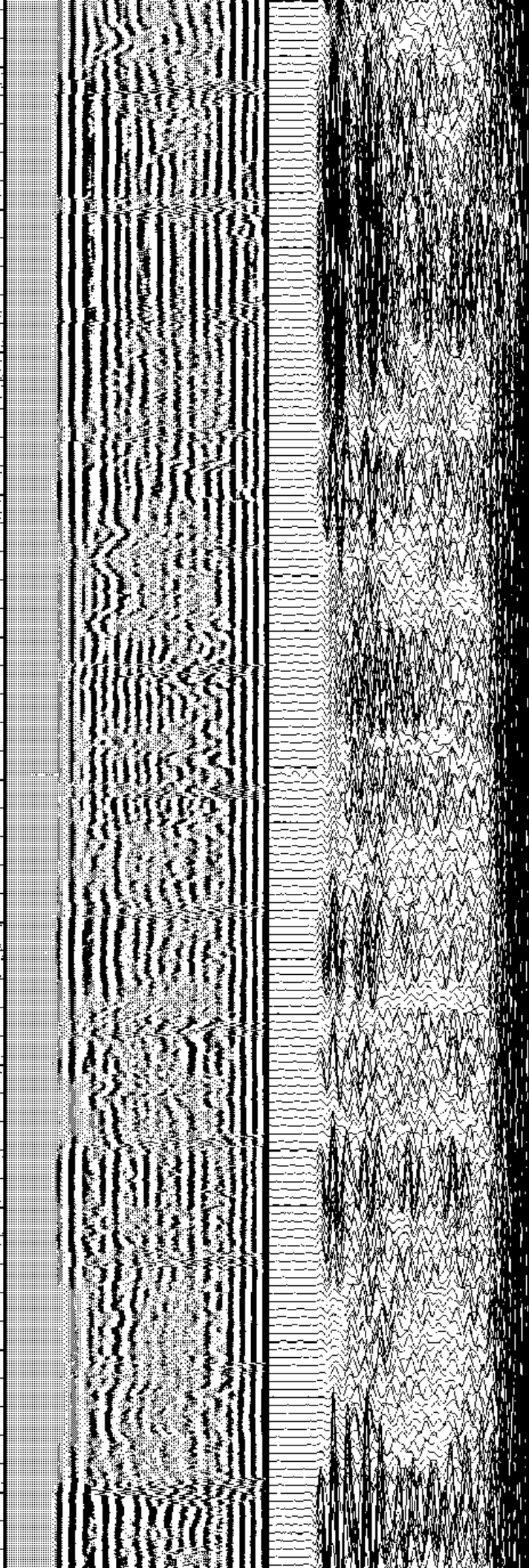
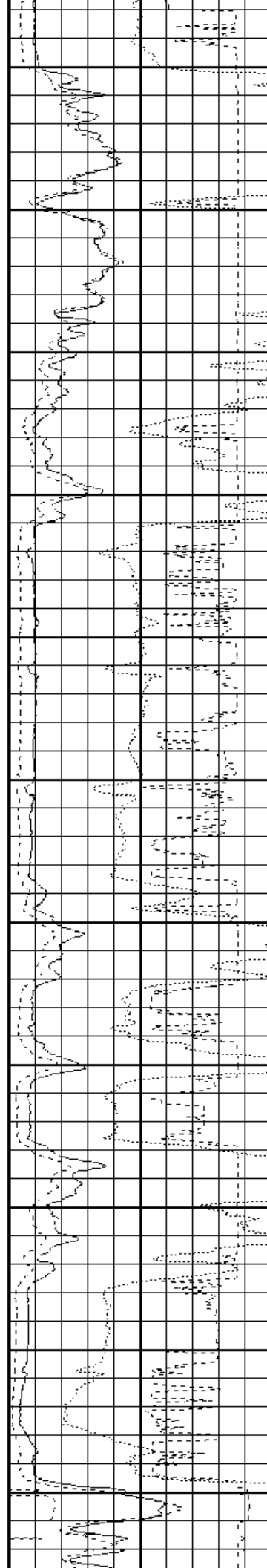
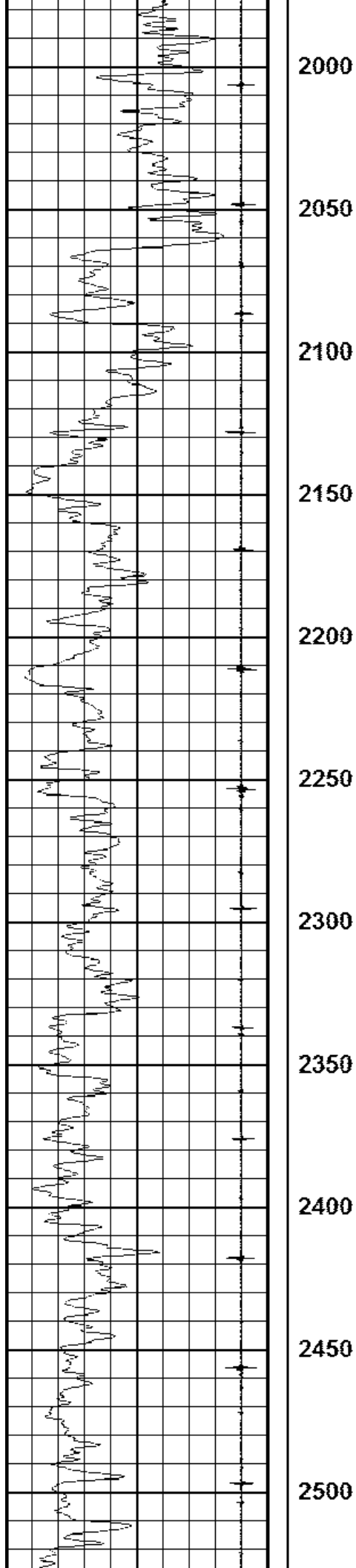


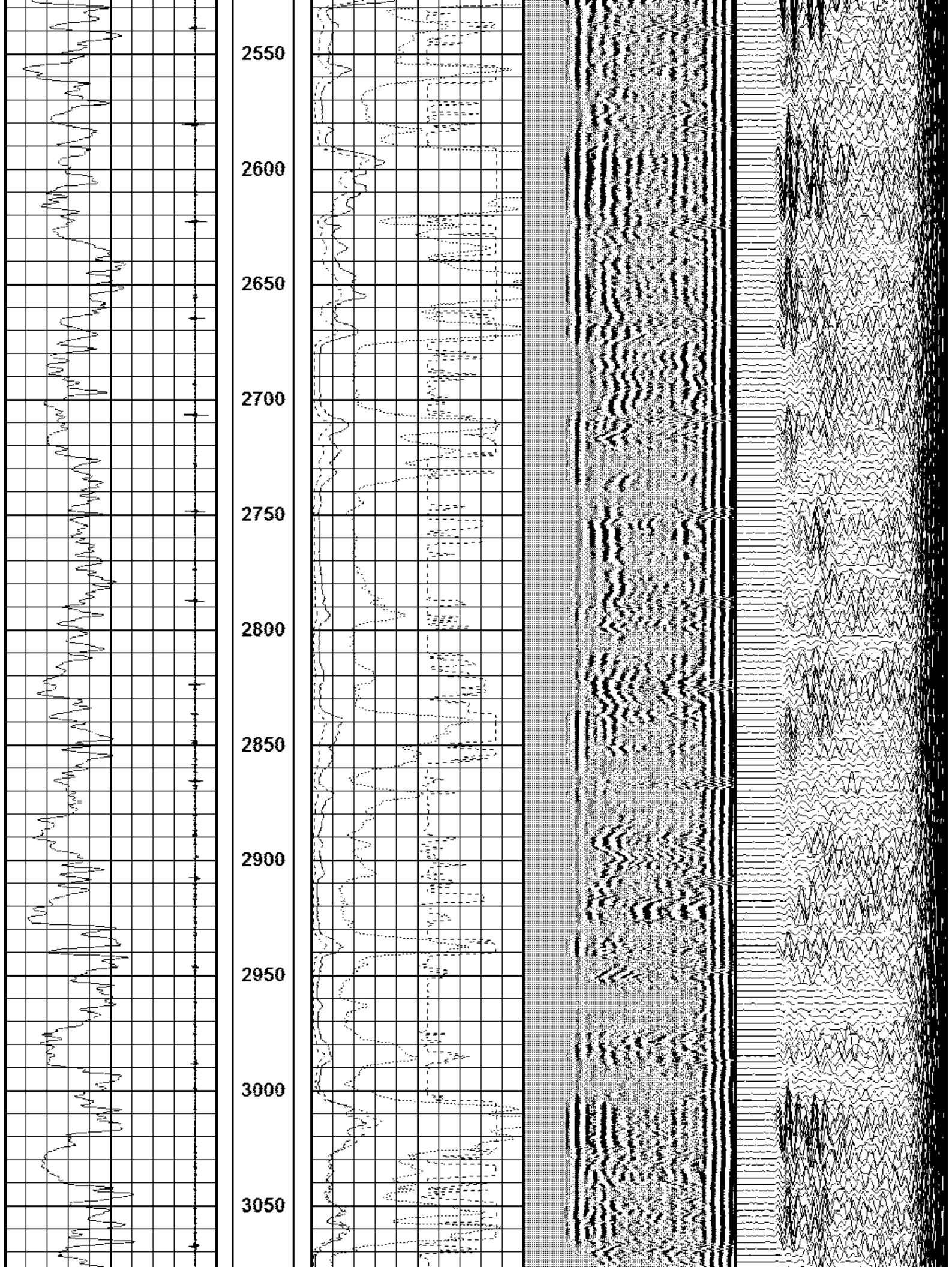


7" CASING 23# J-55

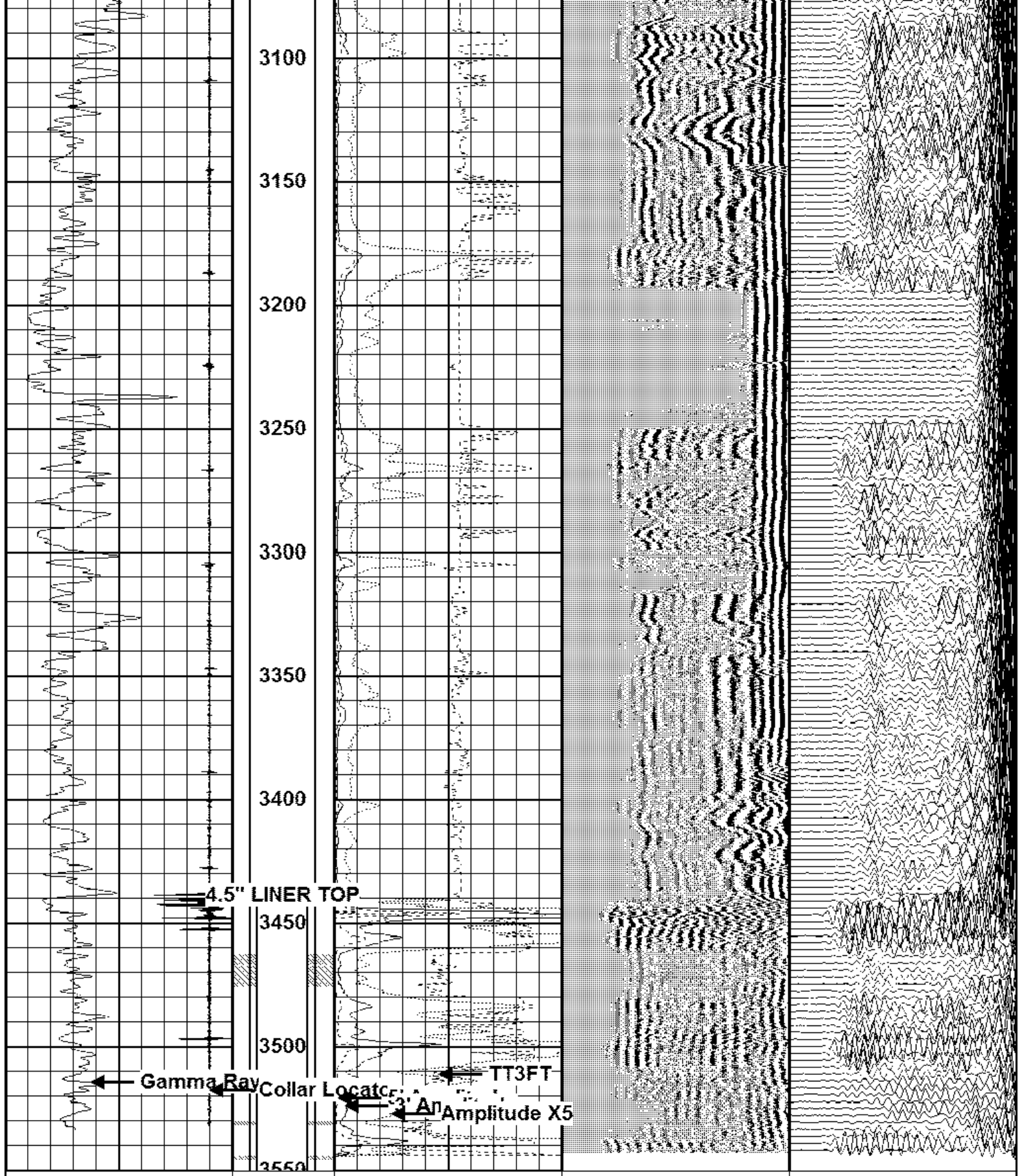






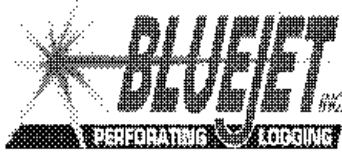






9	Collar Locator	-1	Amplitude X5	200	VDL	1200	200	VWF5FT	1200
0	Gamma Ray	200	(mV)	16					
			3' Amplitude						
			(mV)	80					
			TT3FT						

1200	(usec)	200
Travel Time X10		
300	(usec)	200
5' Amplitude		
0	(mV)	80



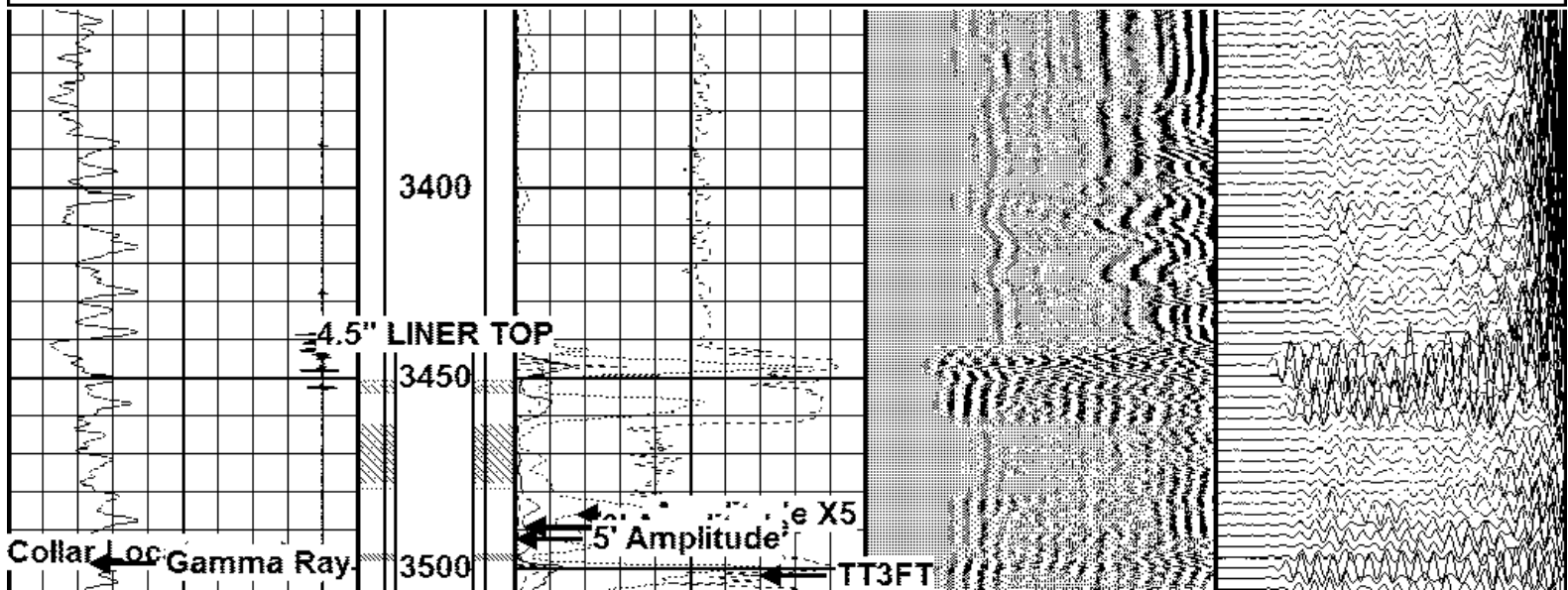
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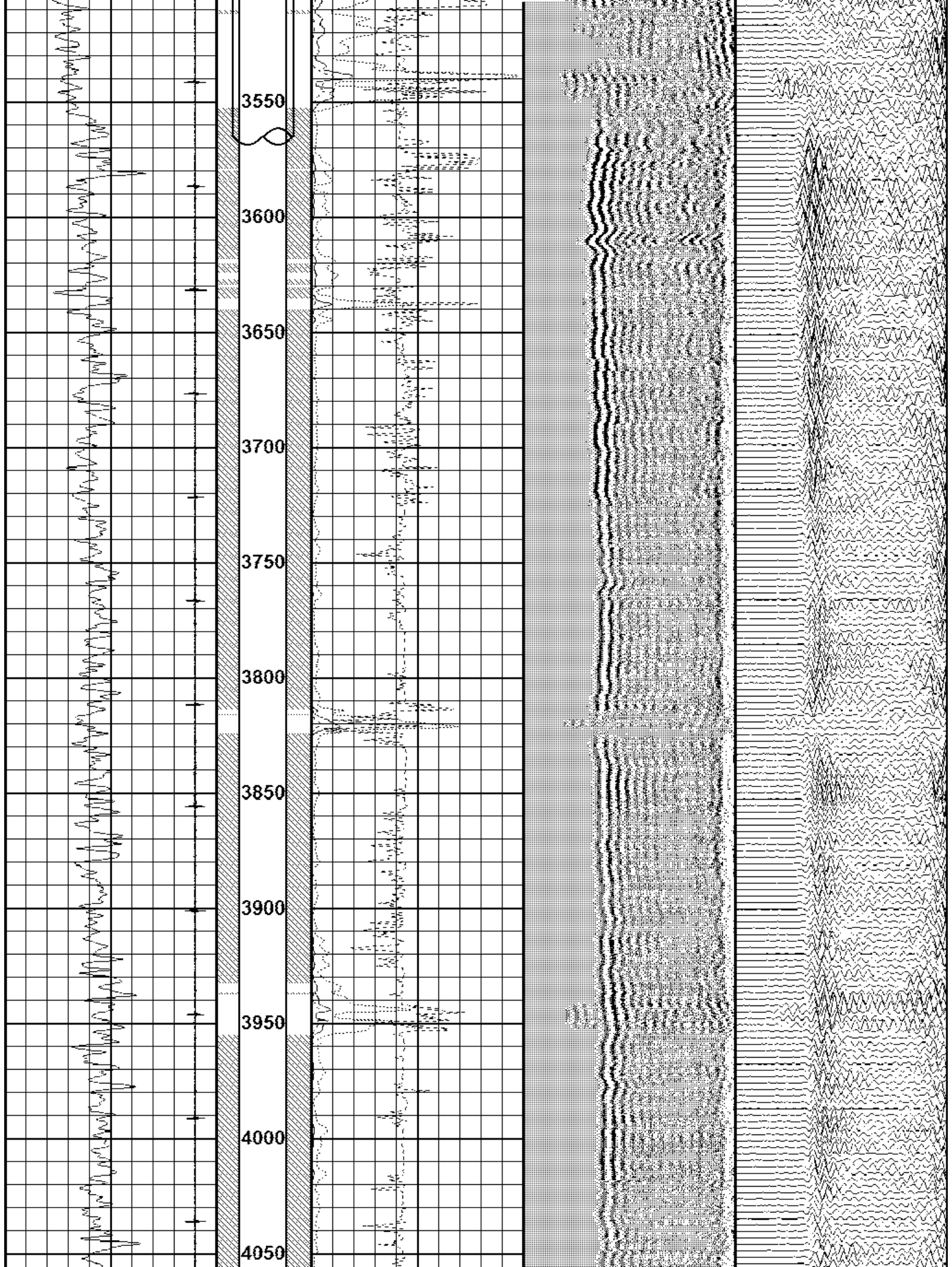


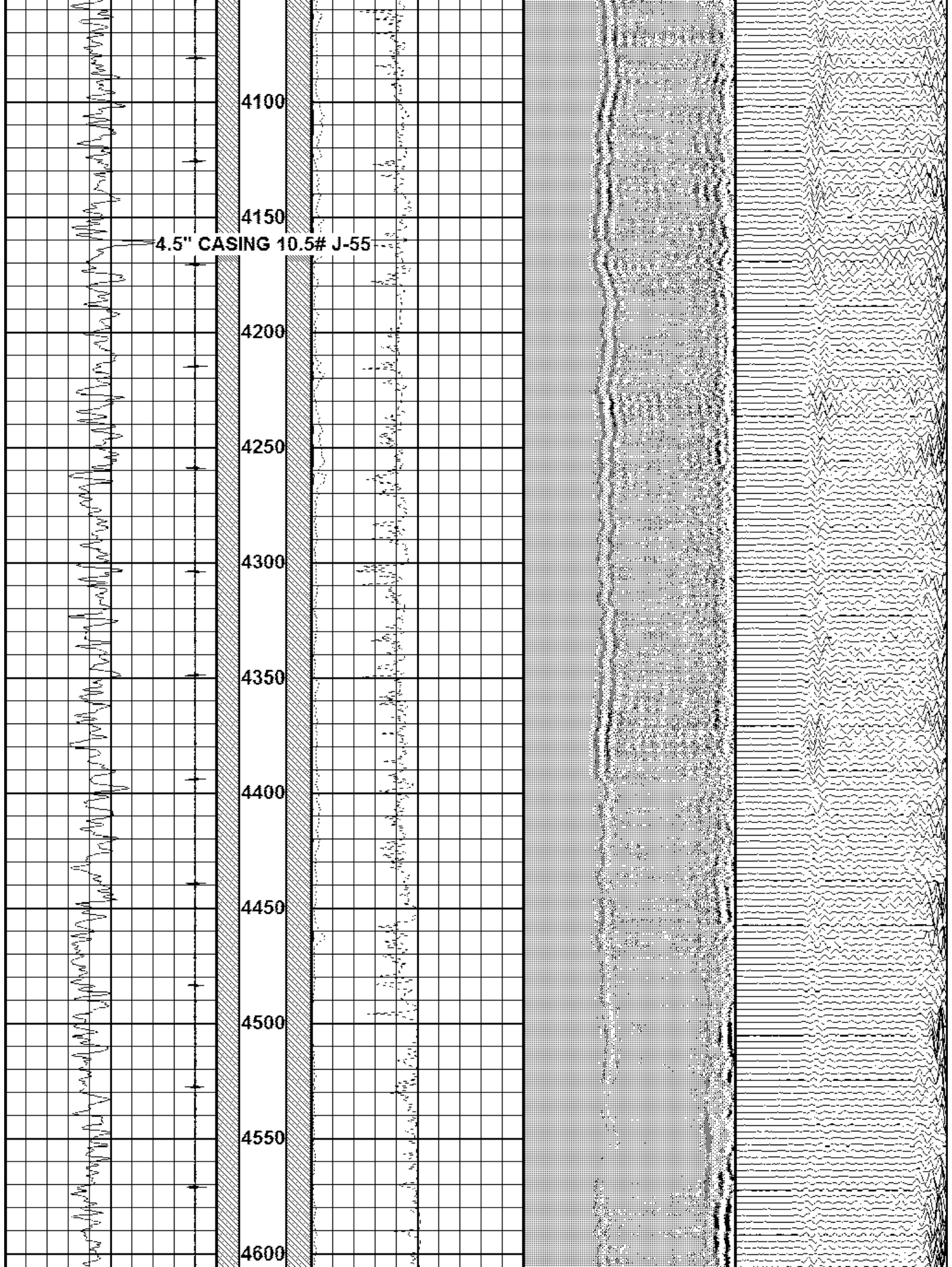
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Database File copcarterute4amvcbl.db  
 Dataset Pathname fieldmv/wellcarterute4a/run1/pass4  
 Presentation Format cbl4inplo  
 Dataset Creation Mon Aug 12 11:41:10 2013  
 Charted by Depth in Feet scaled 1:600

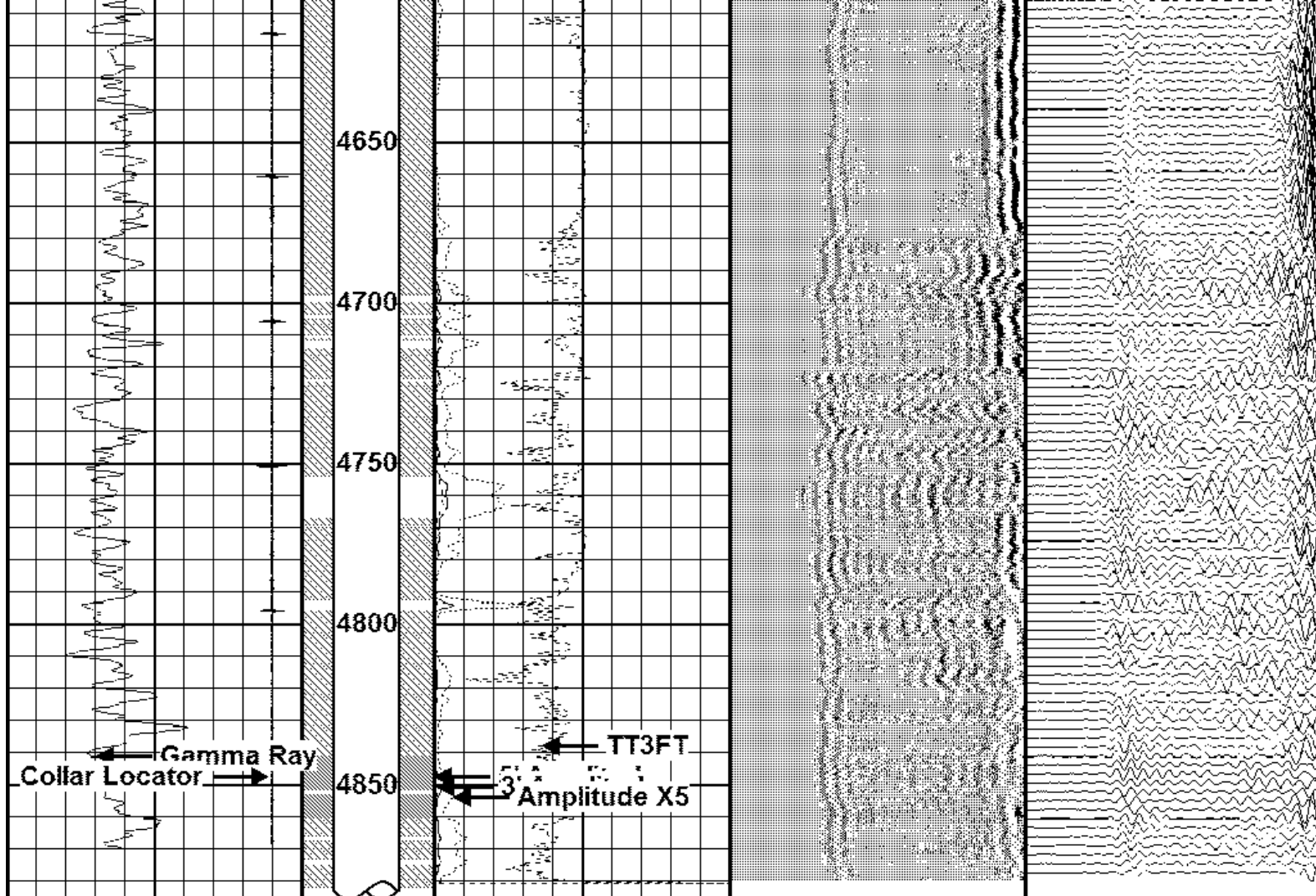
9	Collar Locator	-1		Amplitude X5	200	VDL	1200	200	WVF5FT	1200
0	Gamma Ray	200		0 (mV) 24						
				3' Amplitude						
				0 (mV) 120						
				TT3FT						
				1200 (usec) 200						
				Travel Time X10						
				300 (usec) 200						
				5' Amplitude						
				0 (mV) 120						











9	Collar Locator	-1	Amplitude X5	200	VDL	1200	200	WVF5FT	1200
0	Gamma Ray	200	0 (mV)	24					
			3' Amplitude						
			0 (mV)	120					
			TT3FT						
			1200 (usec)	200					
			Travel Time X10						
			300 (usec)	200					
			5' Amplitude						
			0 (mV)	120					



**MAIN PASS 4-1/2" CASING**

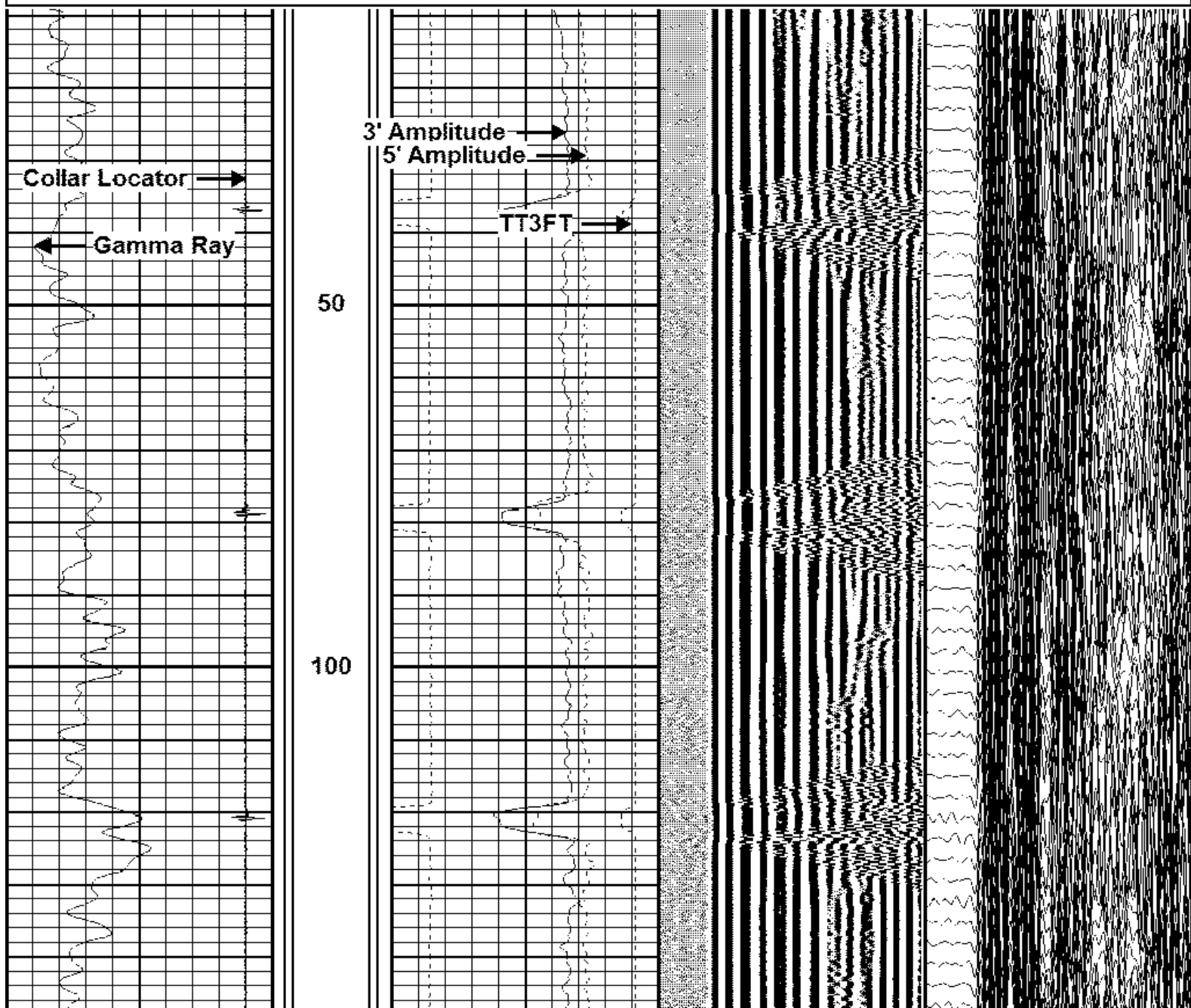


**MAIN PASS 7" CASING**



Database File	copcarterute4amvcbl.db
Dataset Pathname	fieldmv/wellcarterute4a/run1/pass5
Presentation Format	cbl7inplo
Dataset Creation	Mon Aug 12 12:02:33 2013
Charted by	Depth in Feet scaled 1:240

9	Collar Locator	-1		Amplitude X5	200	VDL	1200	200	WVF5FT	1200
0	Gamma Ray	200	0	(mV)	16					
				3' Amplitude						
			0	(mV)	80					
				TT3FT						
			1200	(usec)	200					
				Travel Time X10						
			300	(usec)	200					
				5' Amplitude						
			0	(mV)	80					



150

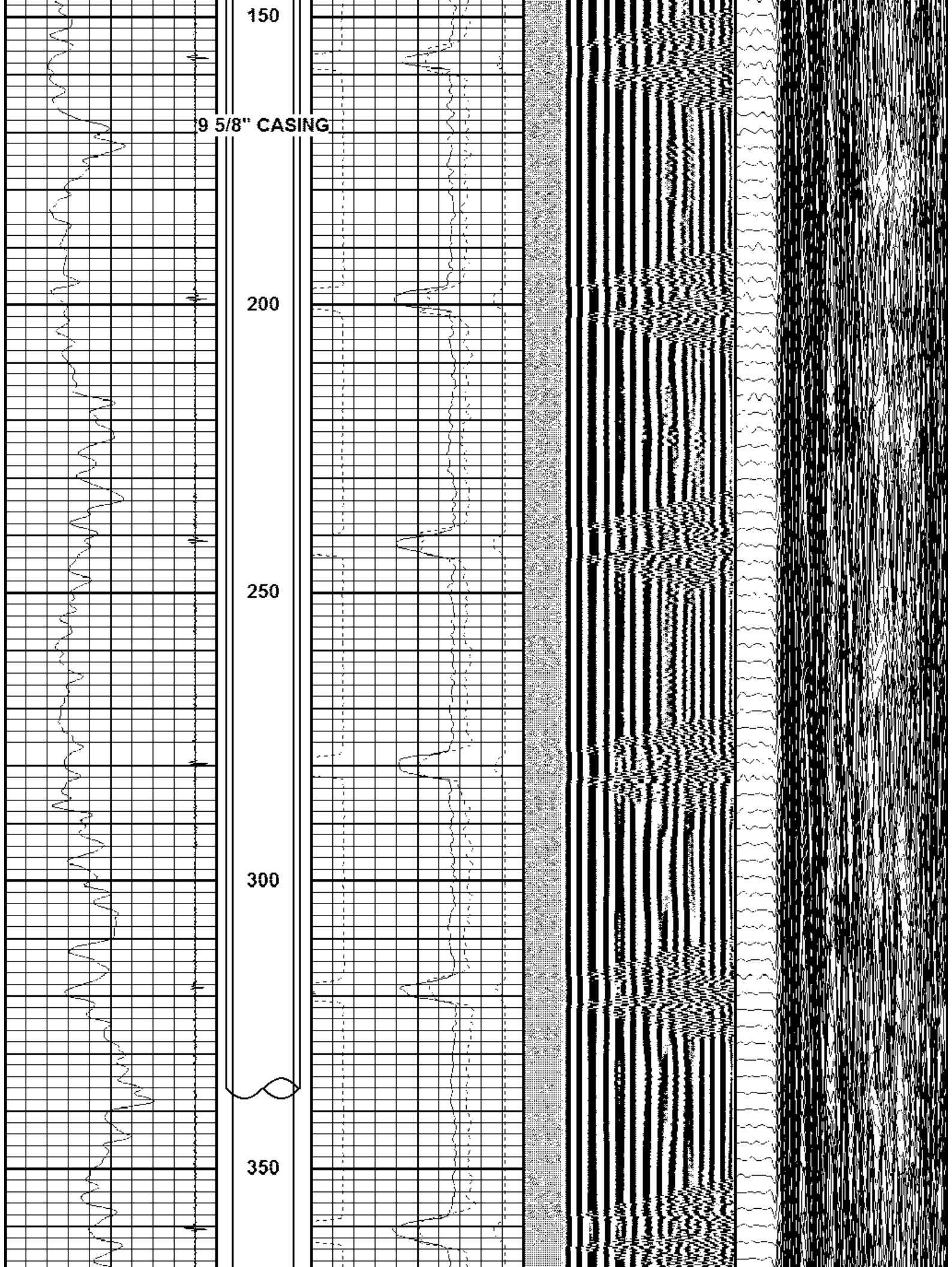
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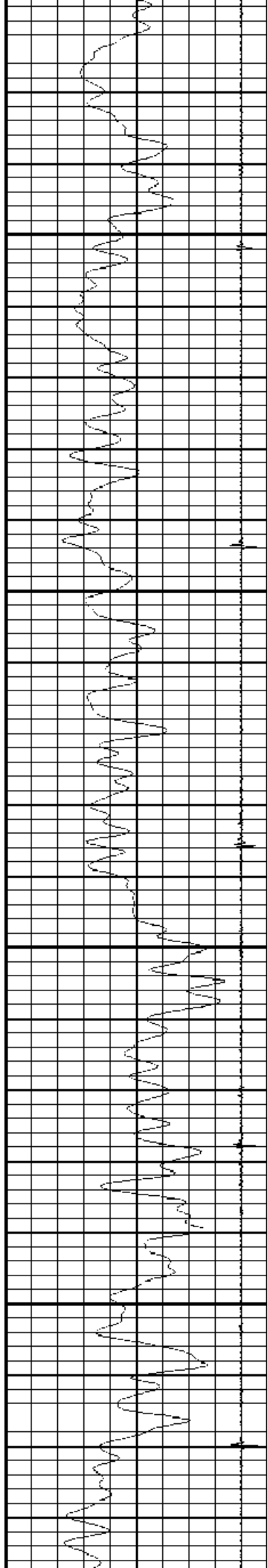
200

250

300

350



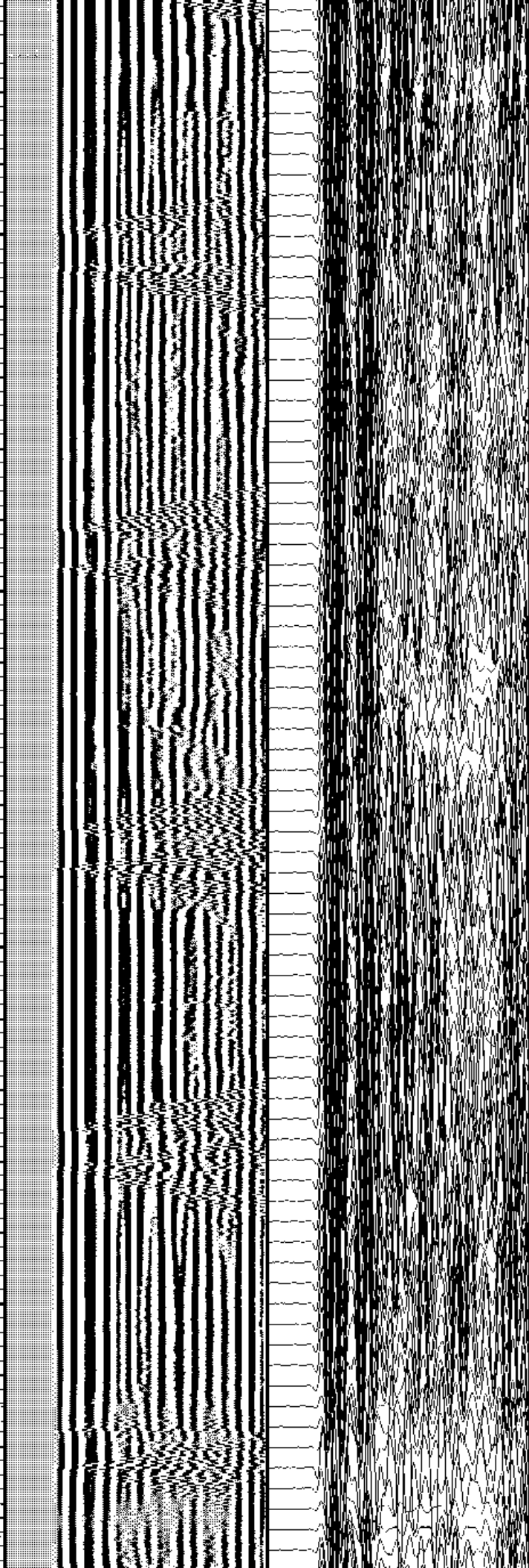
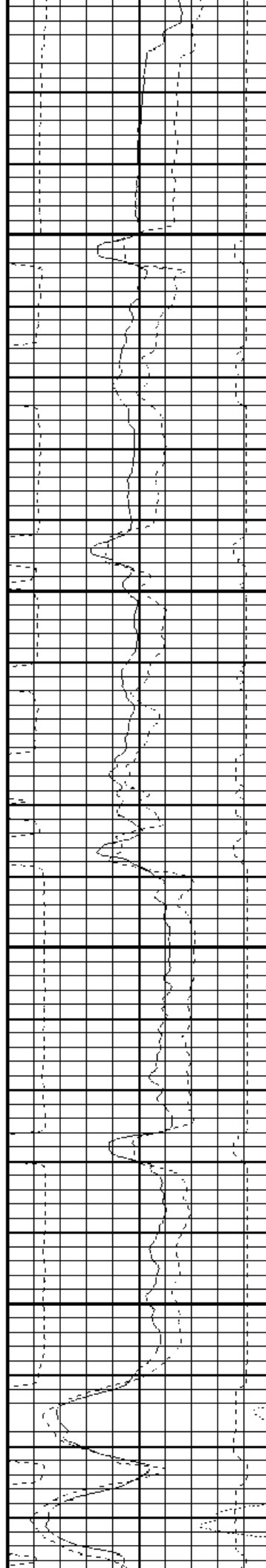


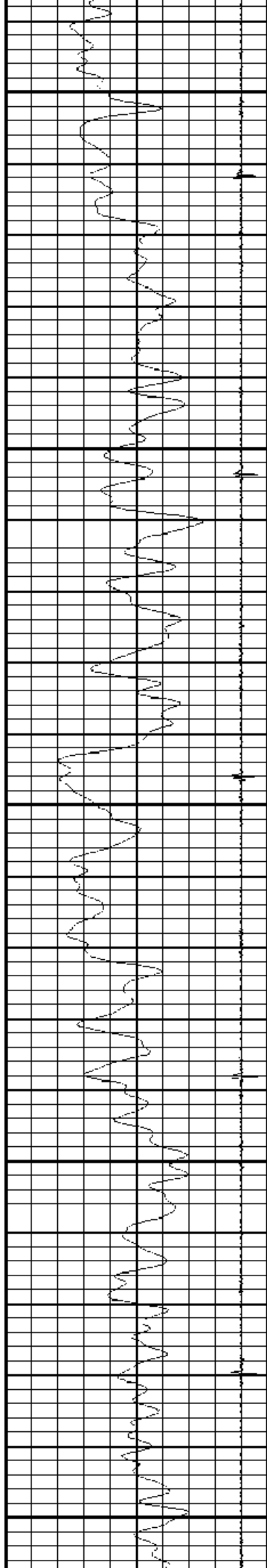
400

450

500

550





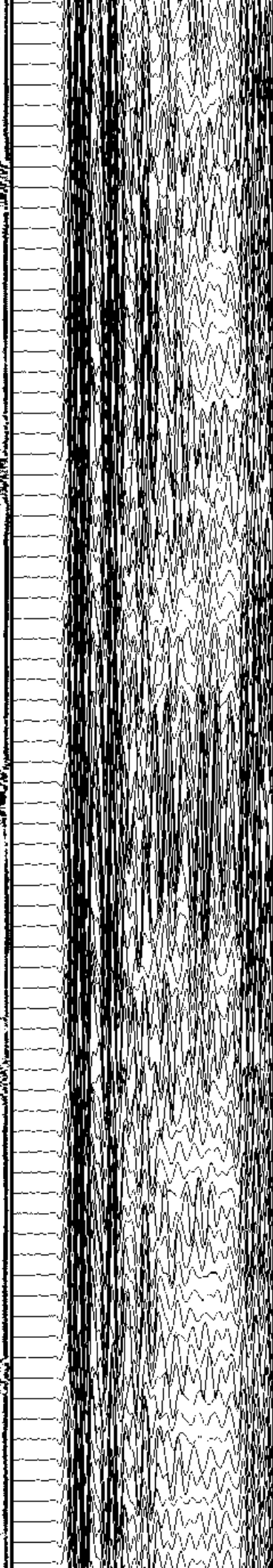
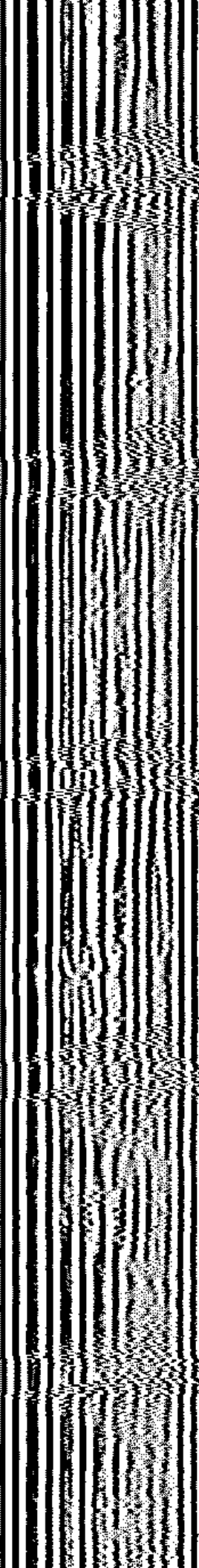
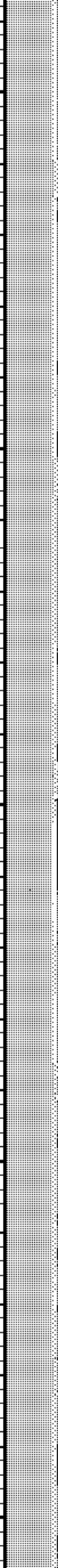
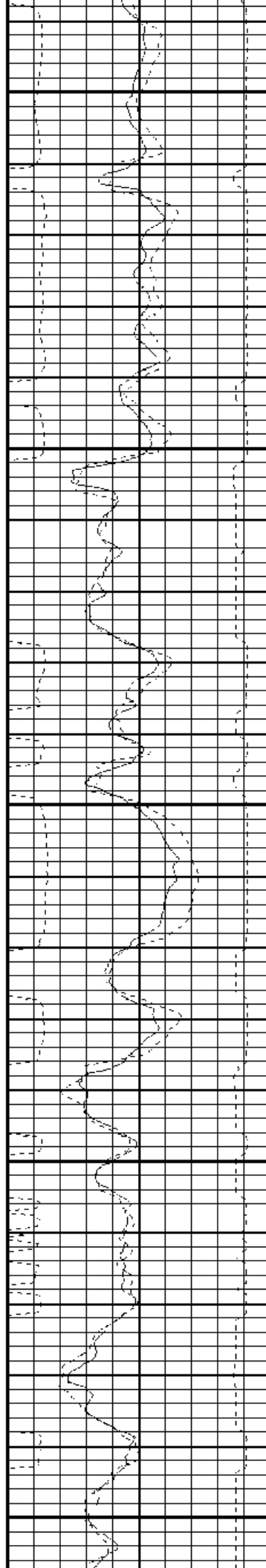
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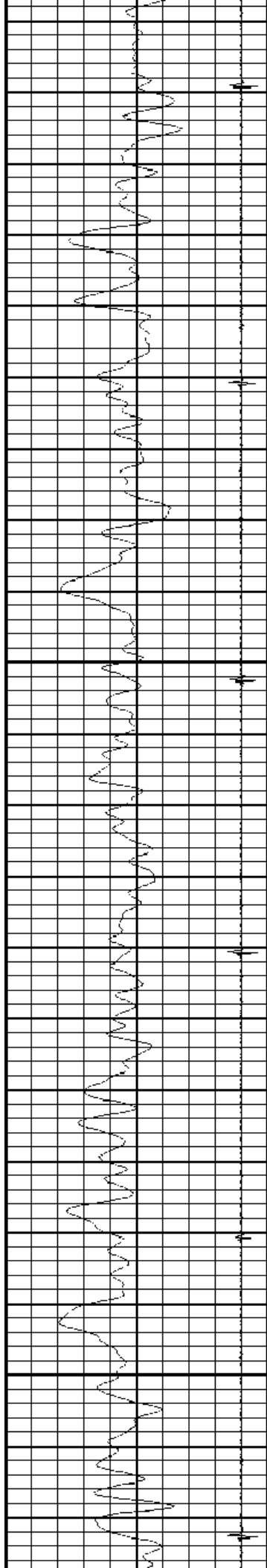
650

700

750

800



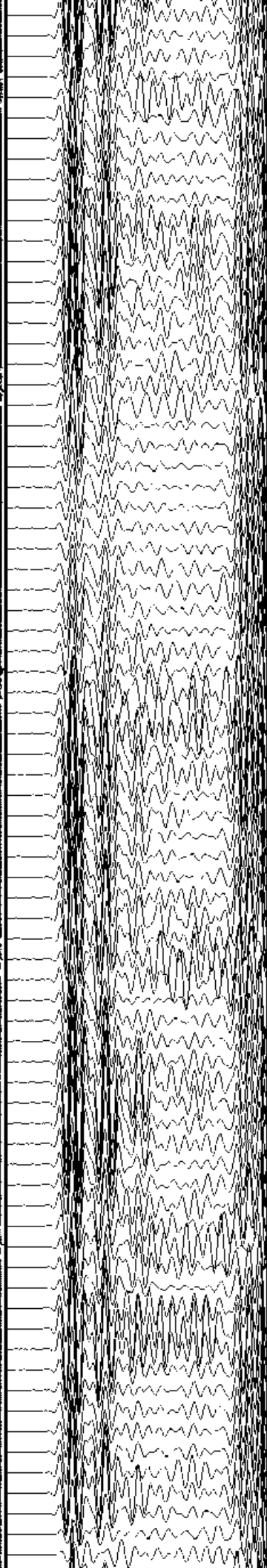
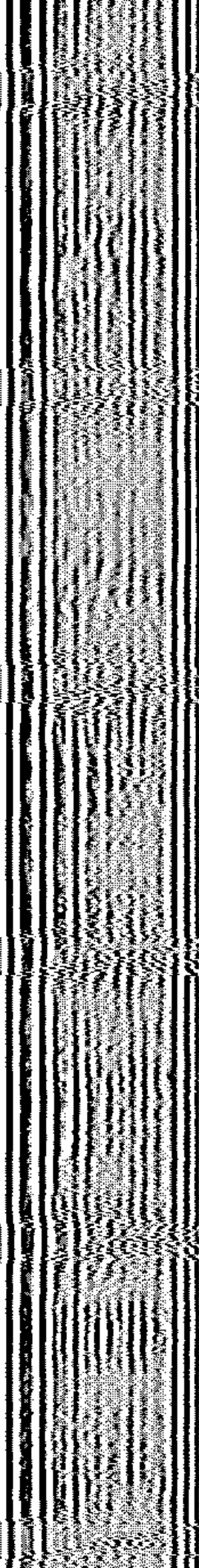
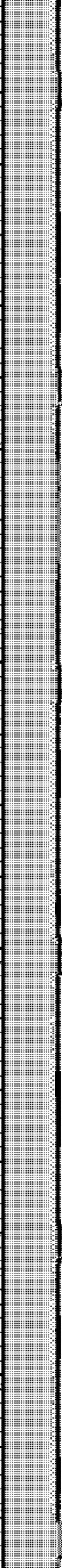
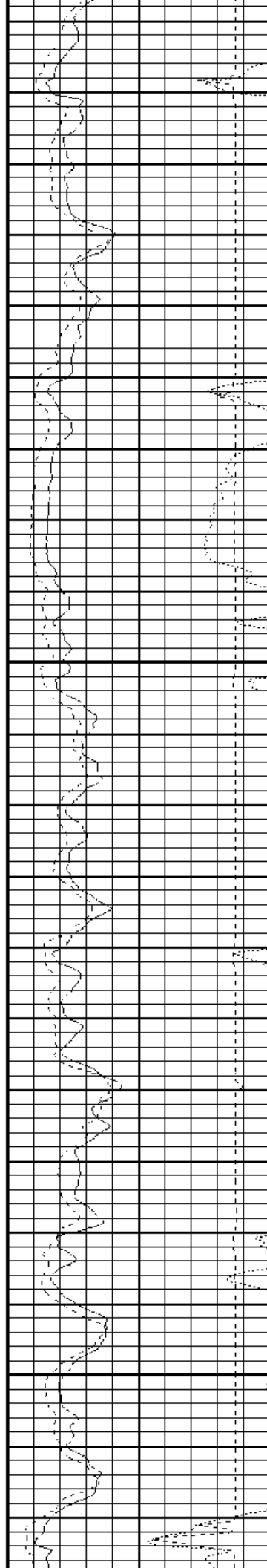


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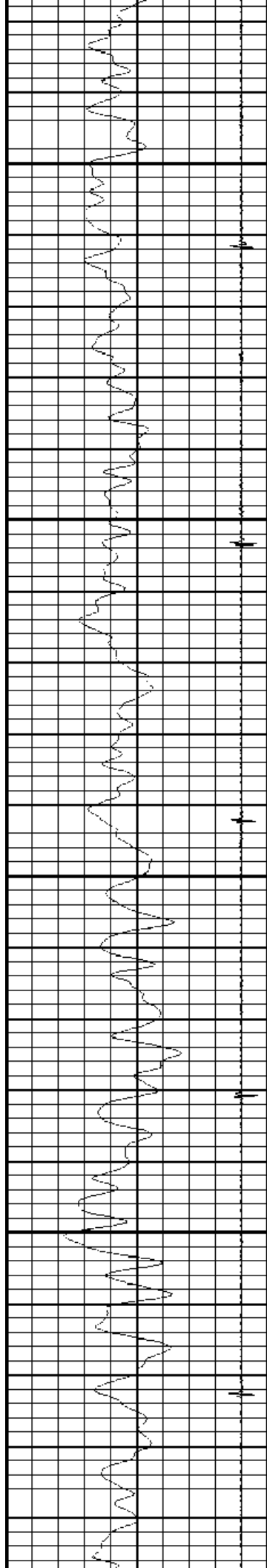
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950

1000





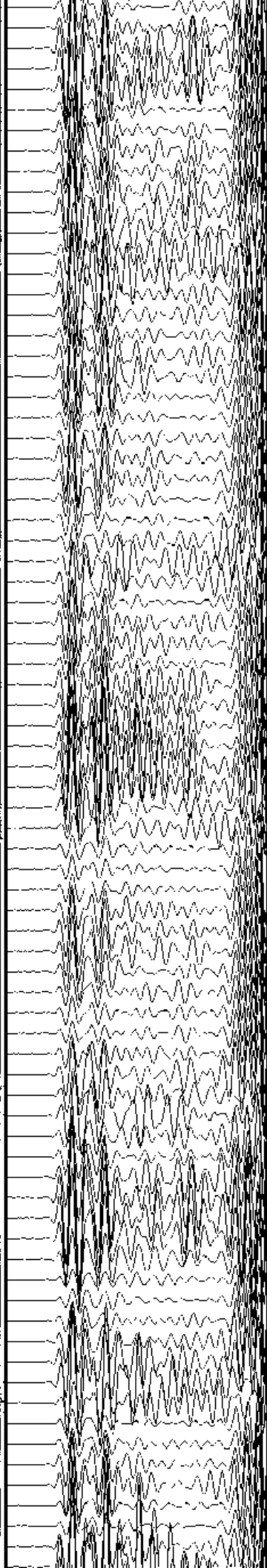
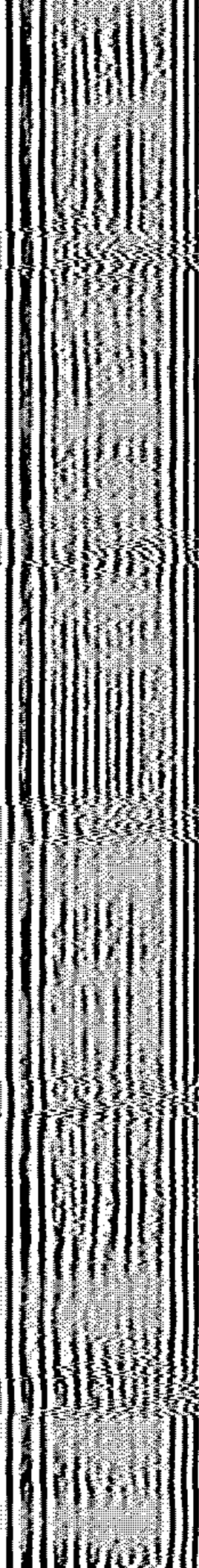
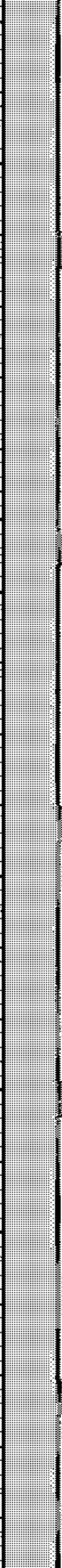
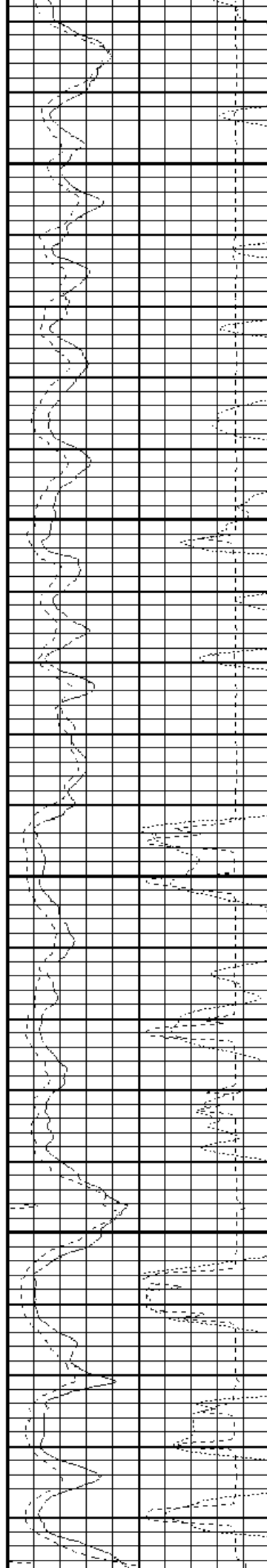


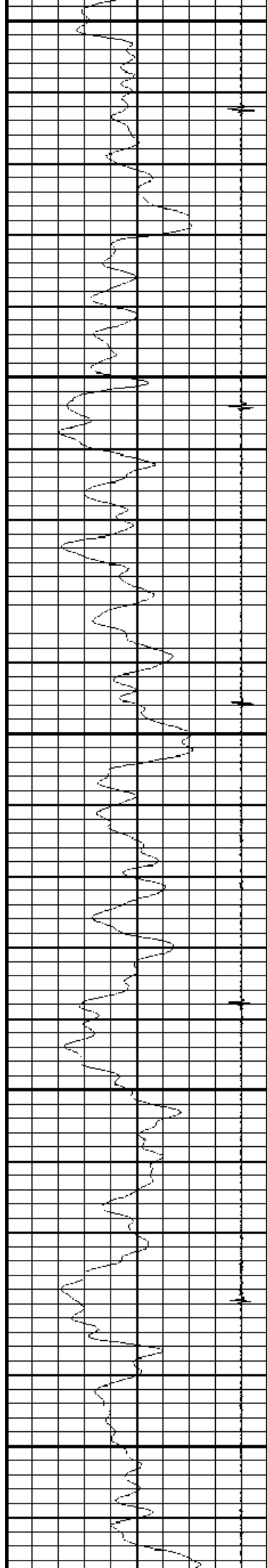
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1100

1150

1200





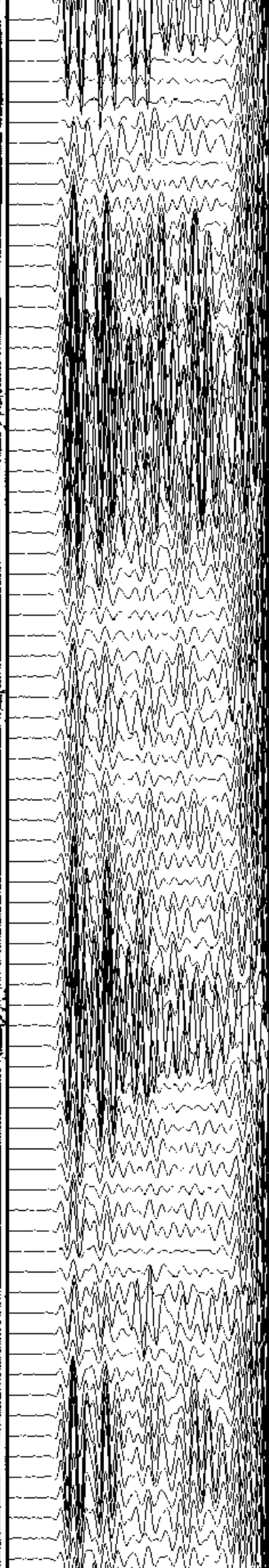
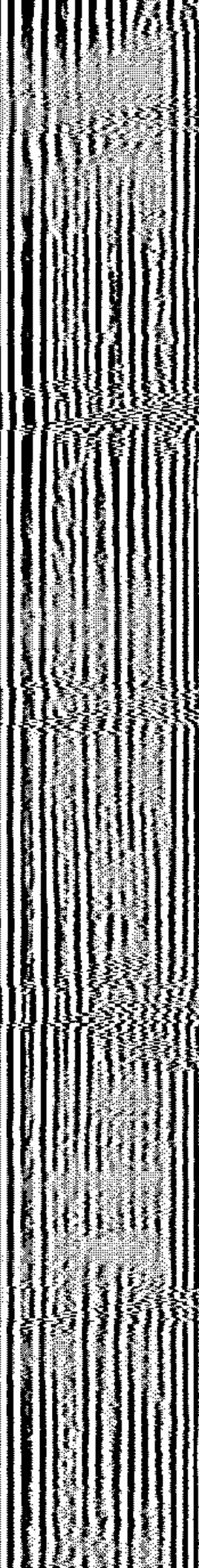
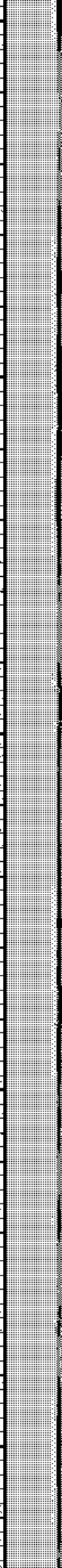
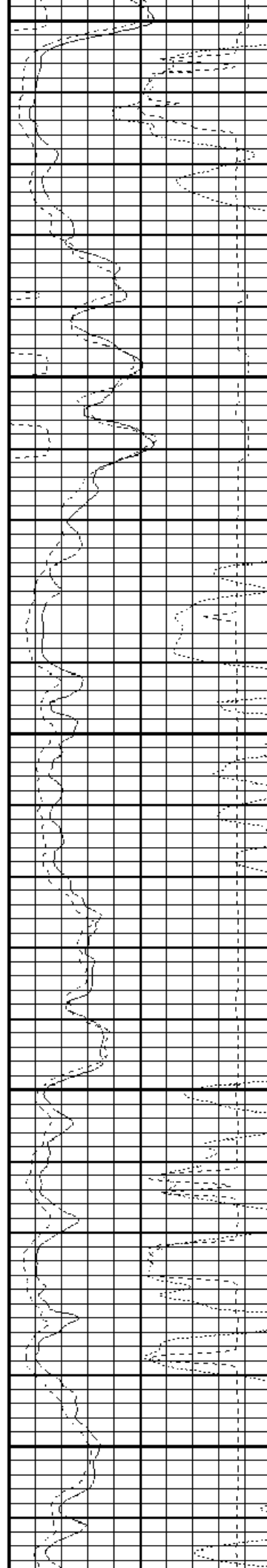
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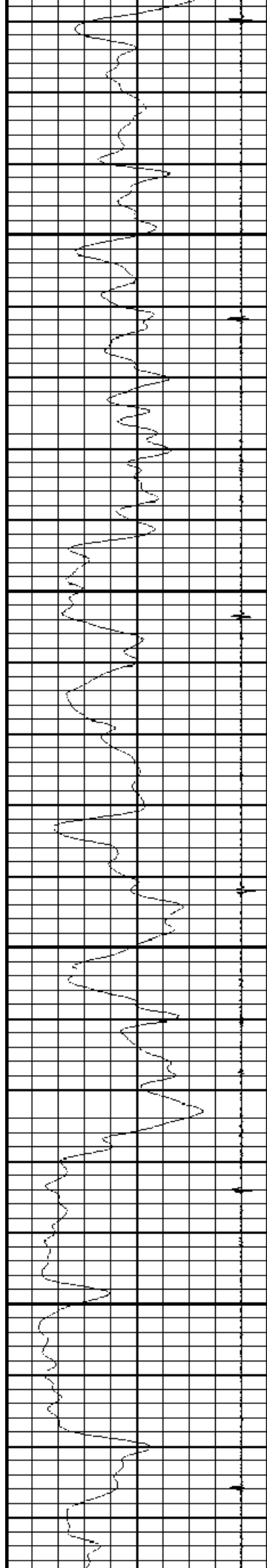
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1350

1400

1450



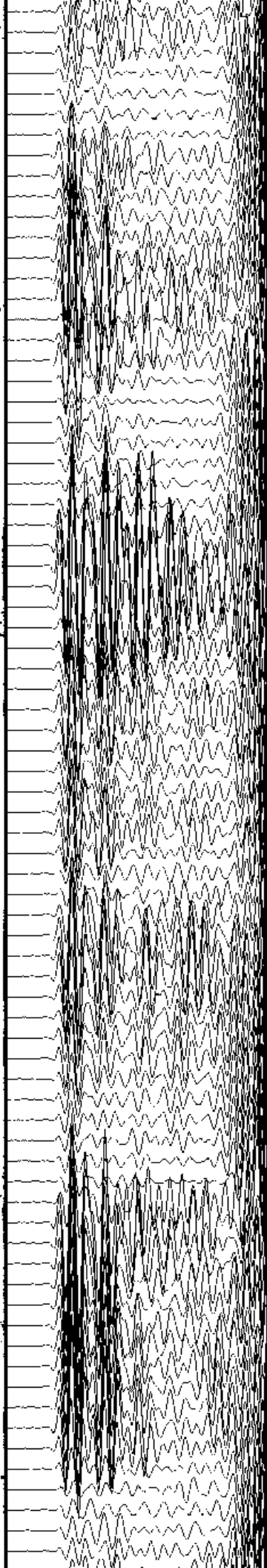
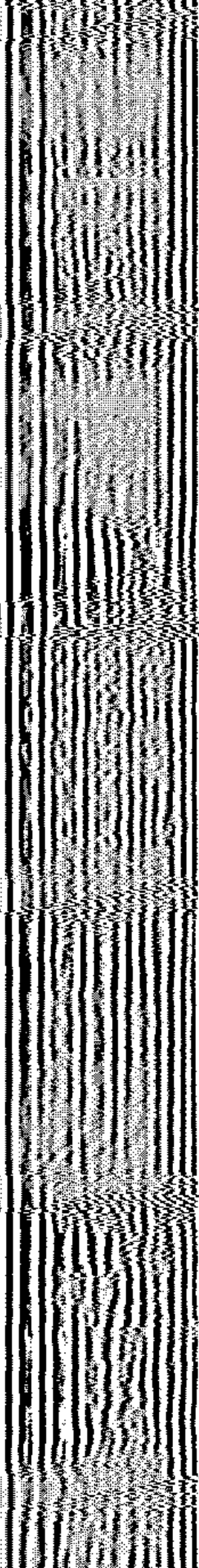
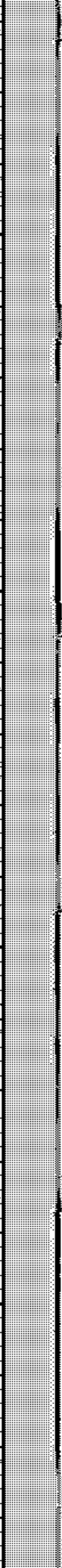
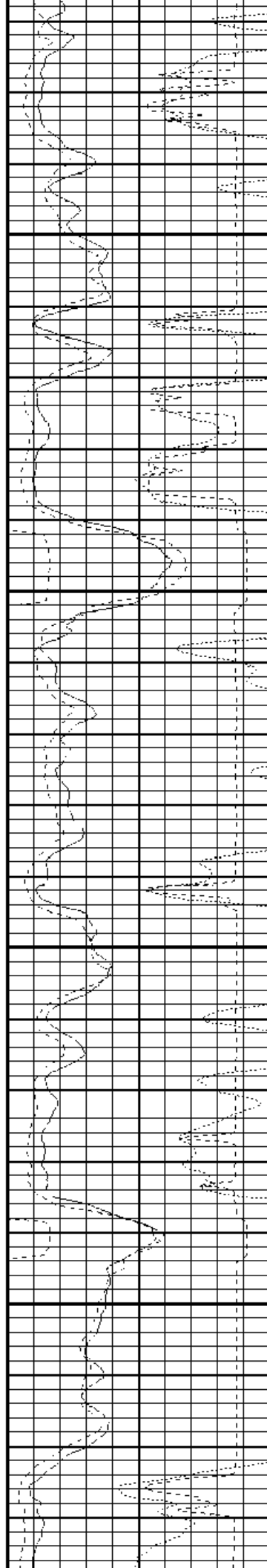


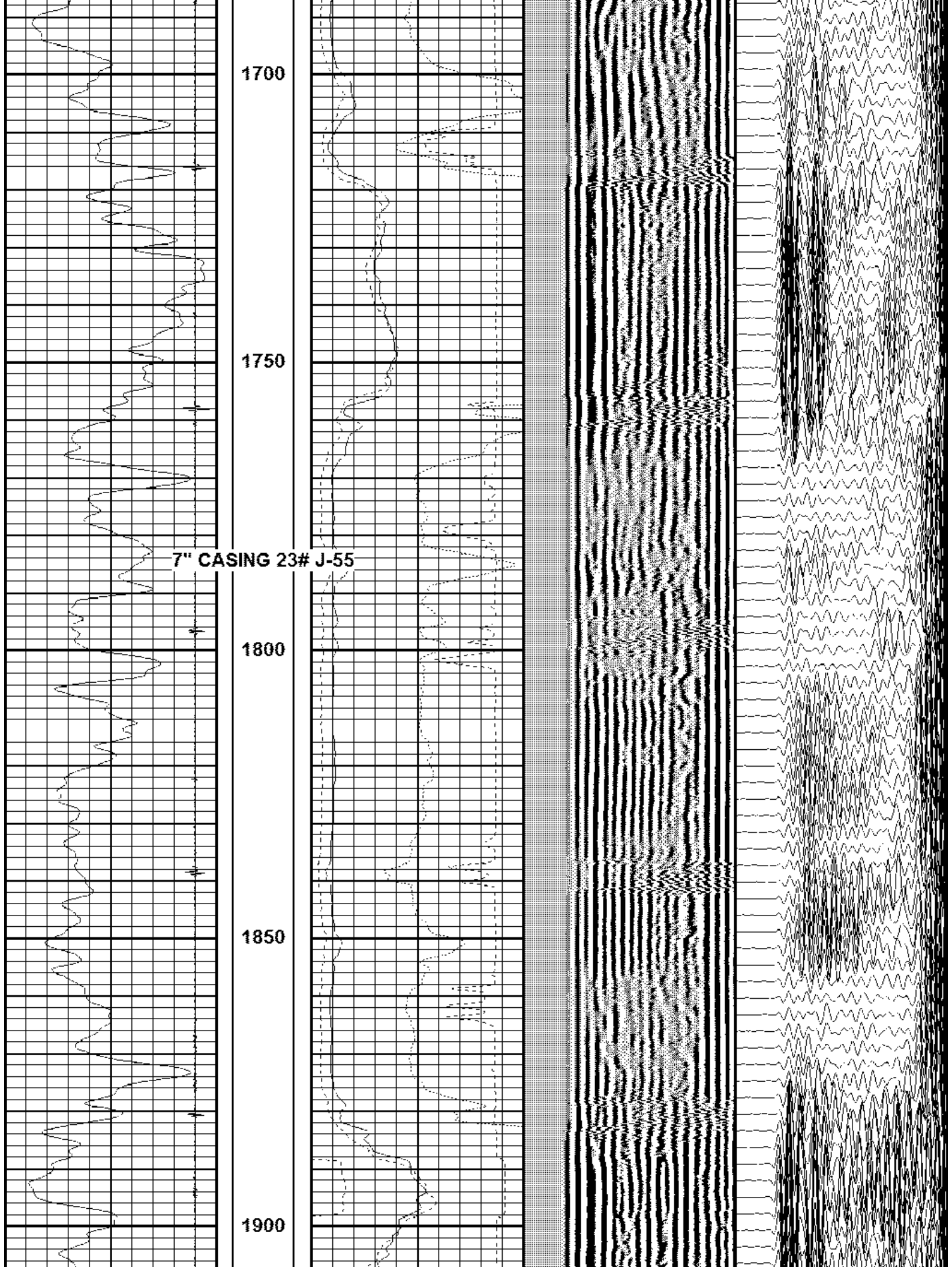
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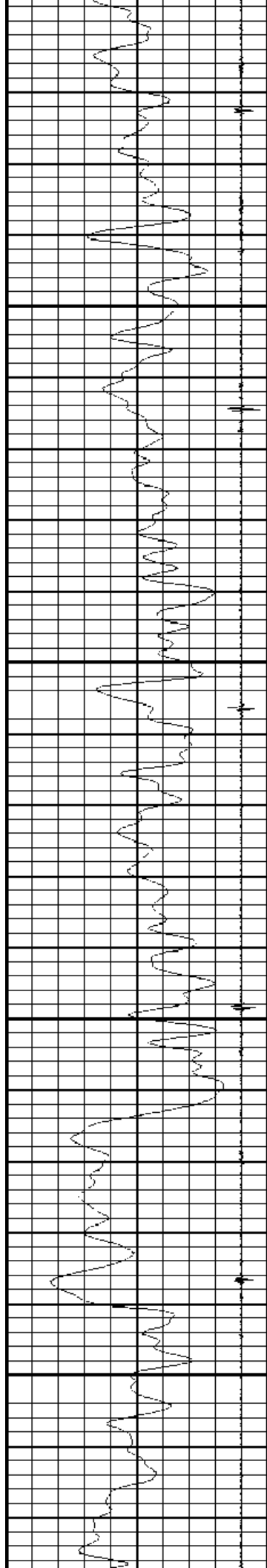
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1600

1650





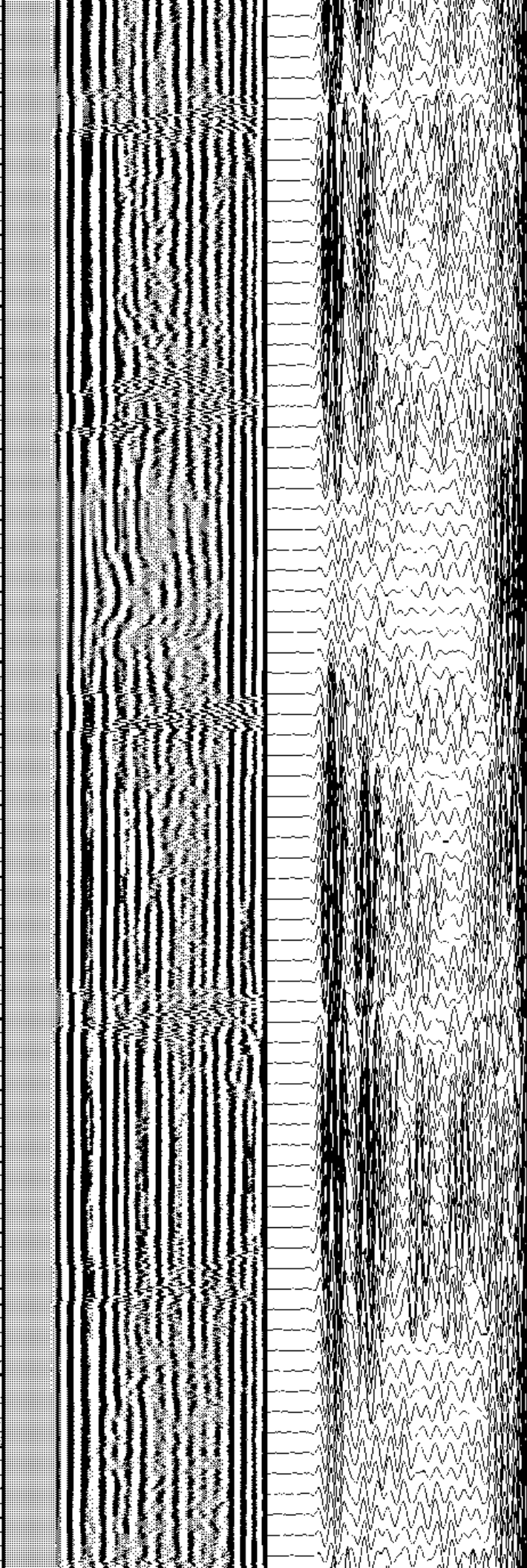
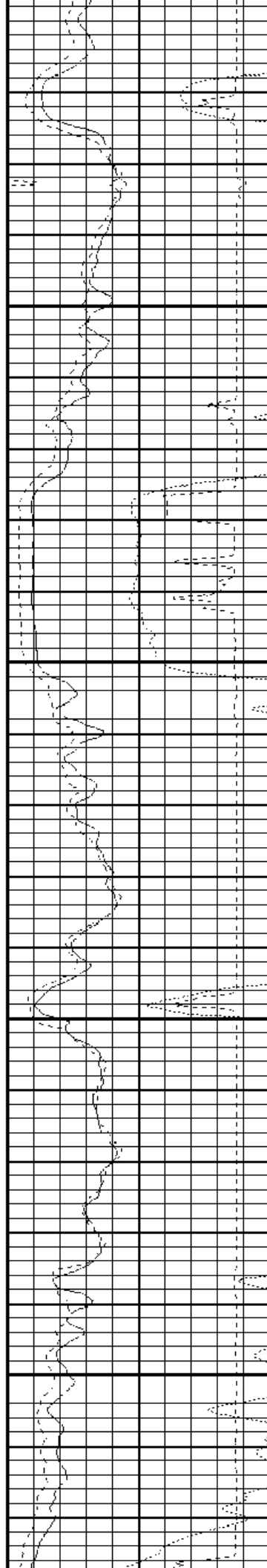


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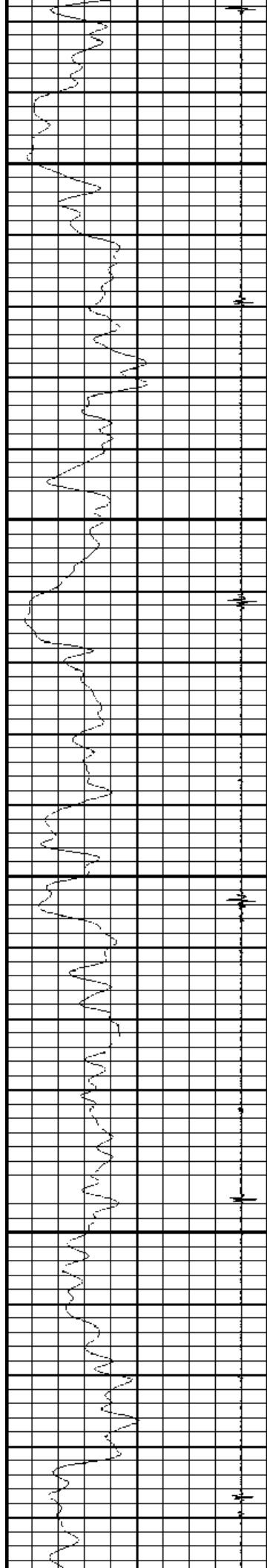
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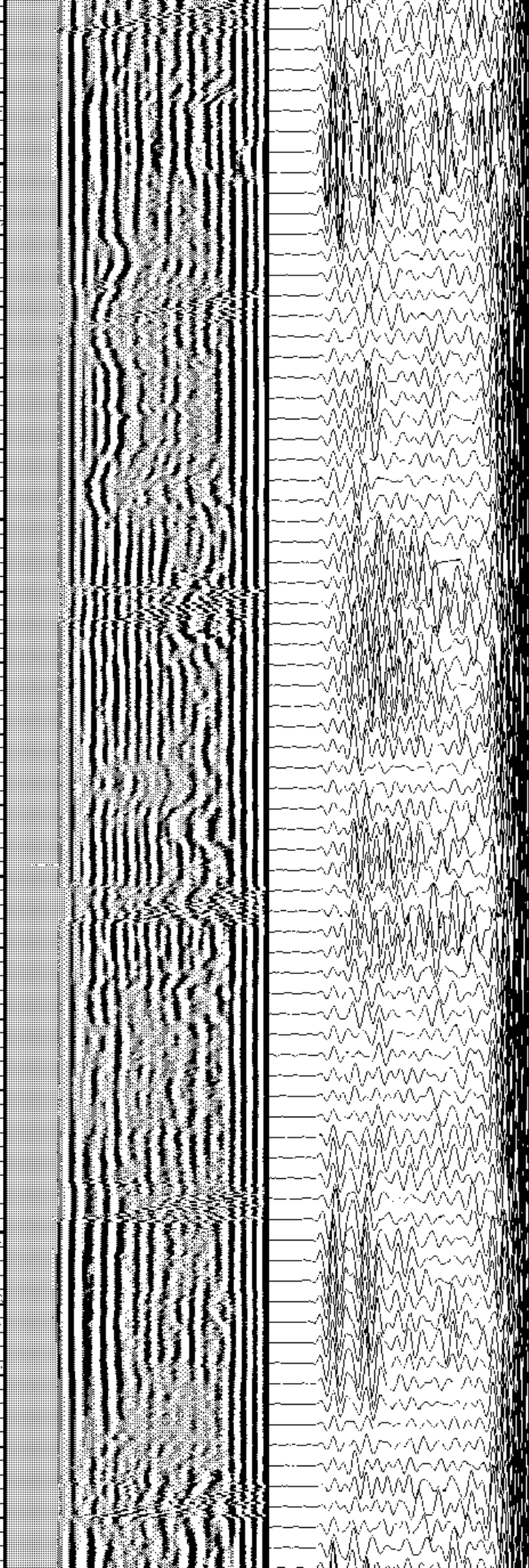
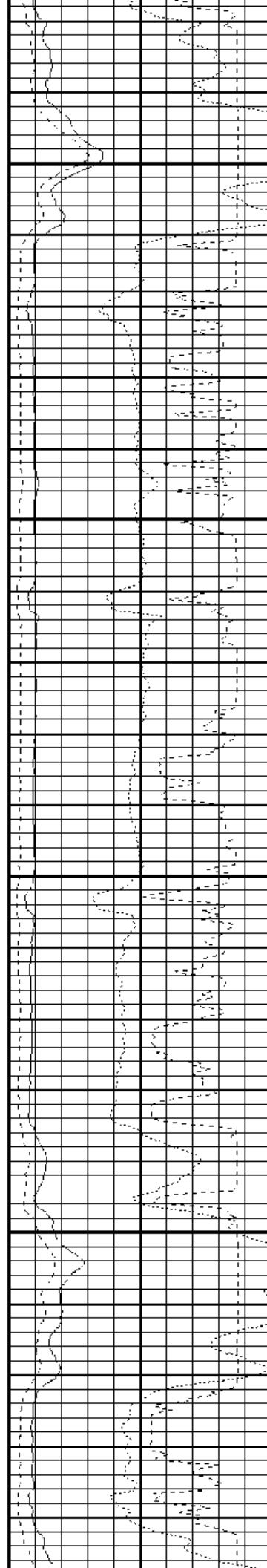


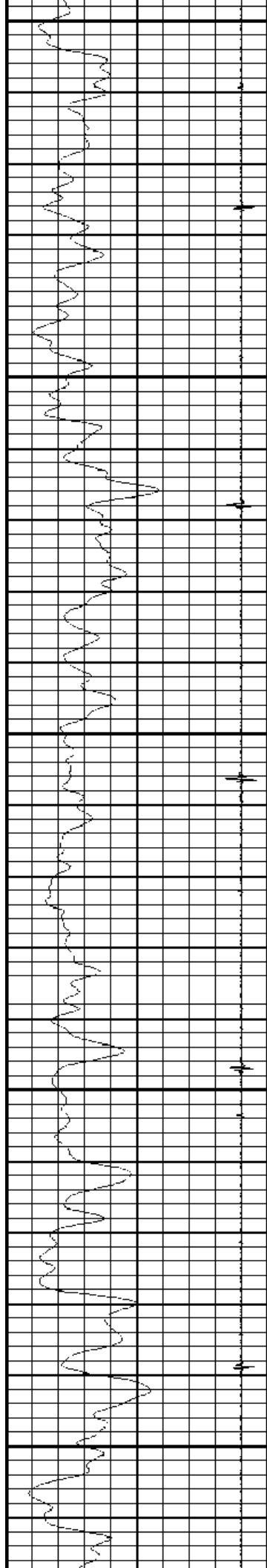
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2200

2250

2300





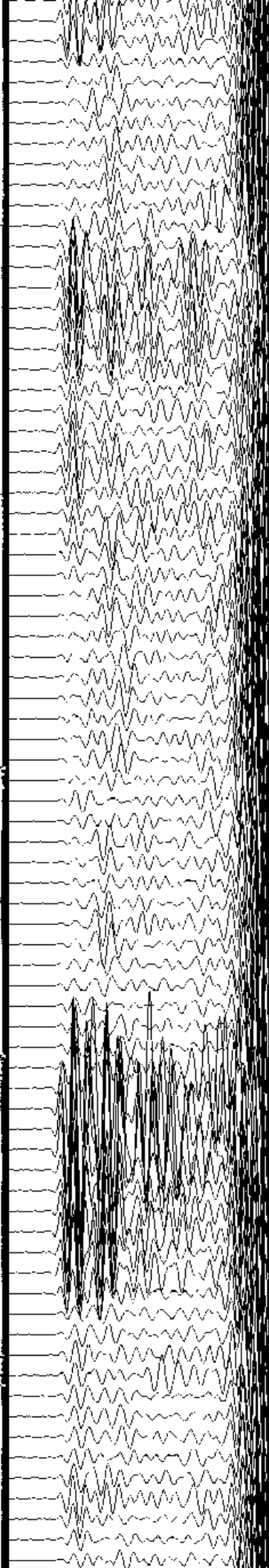
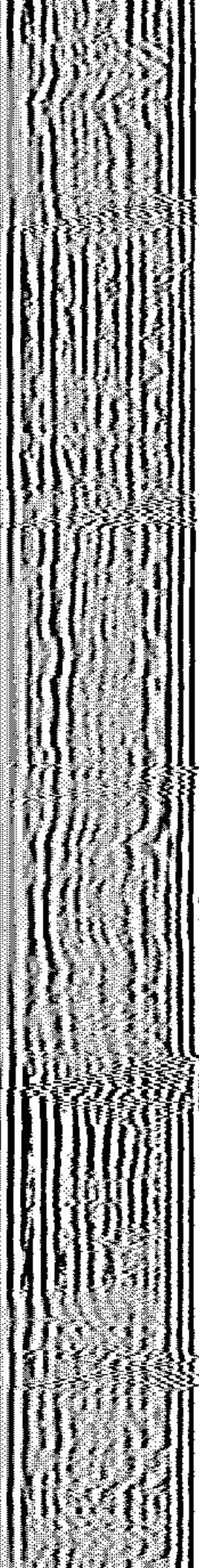
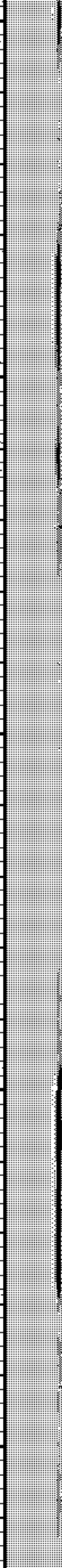
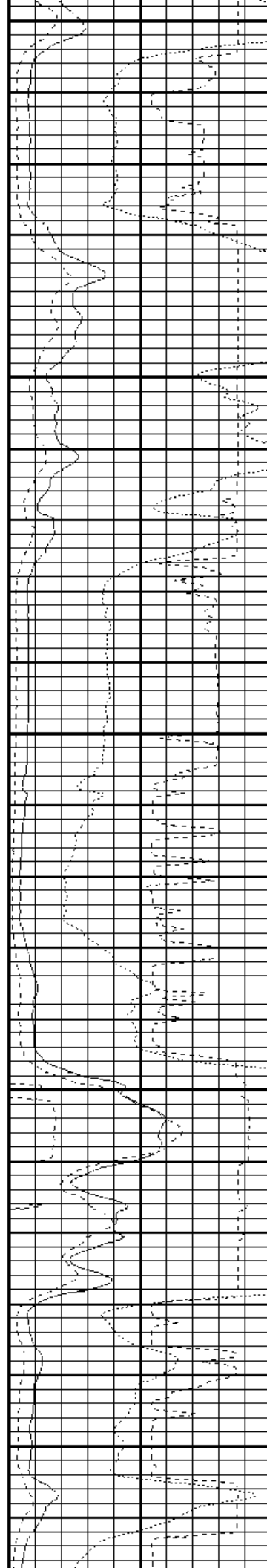
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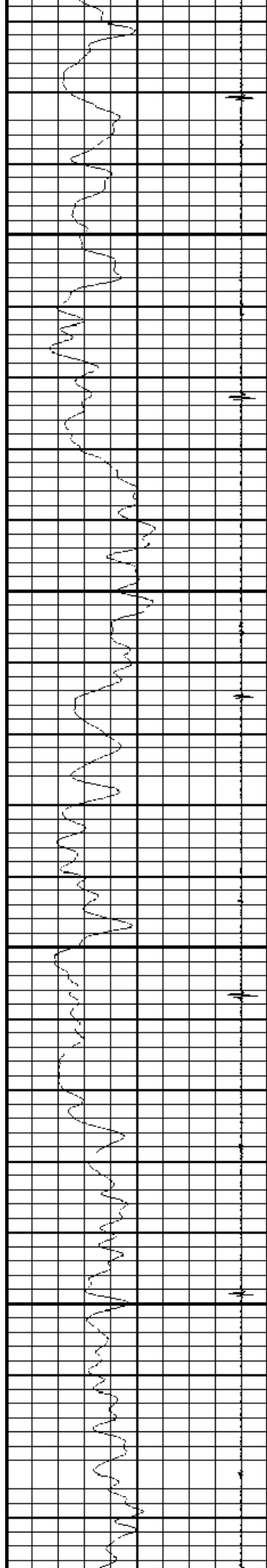
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2450

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2550



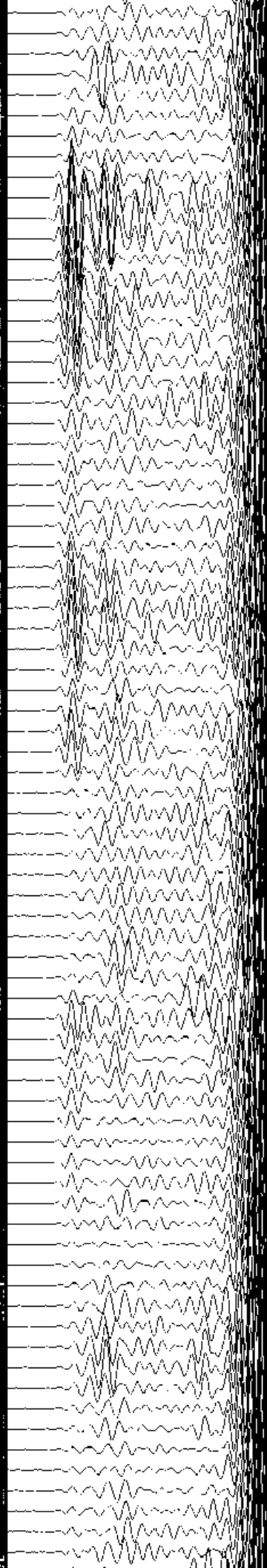
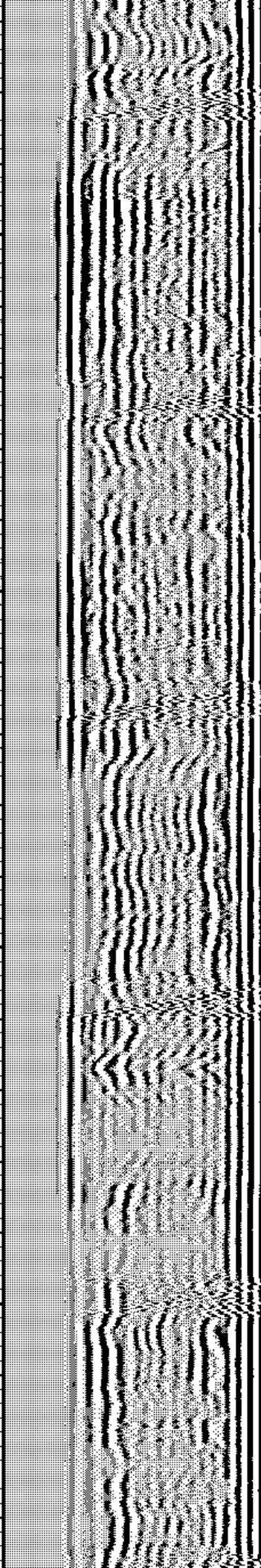
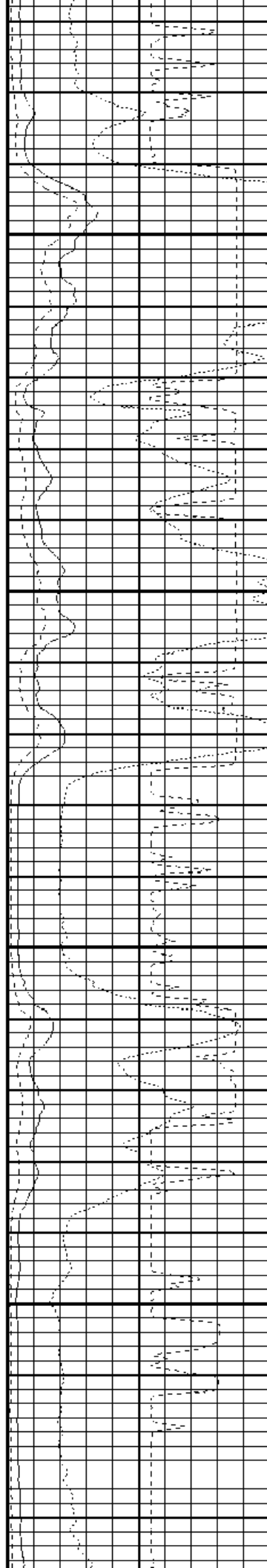


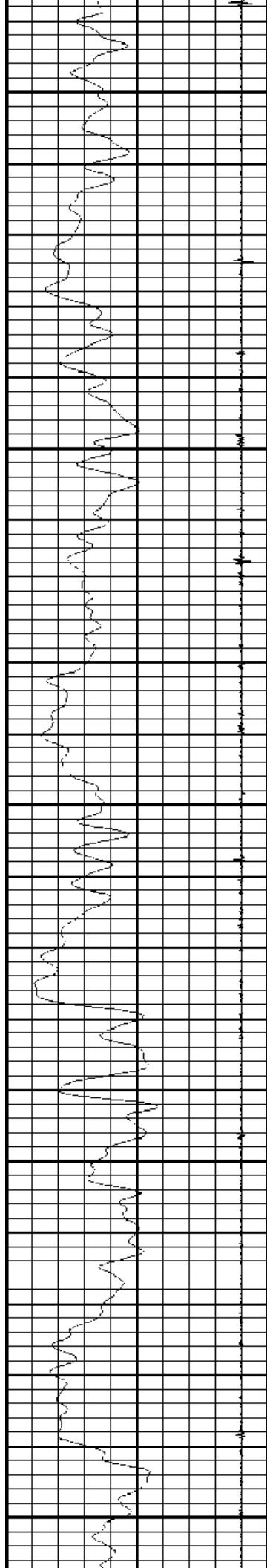
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2700

2750





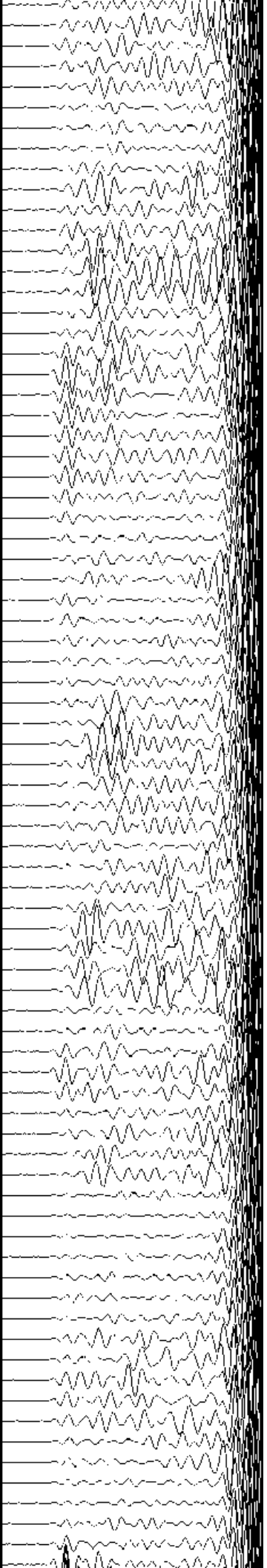
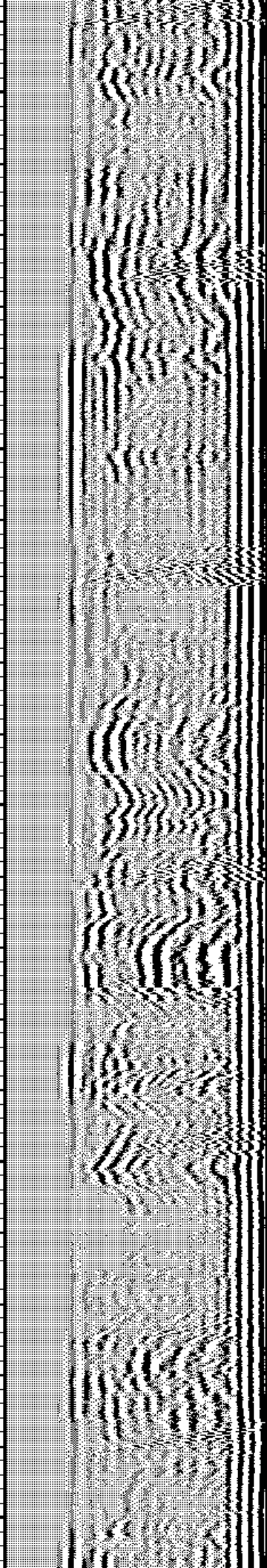
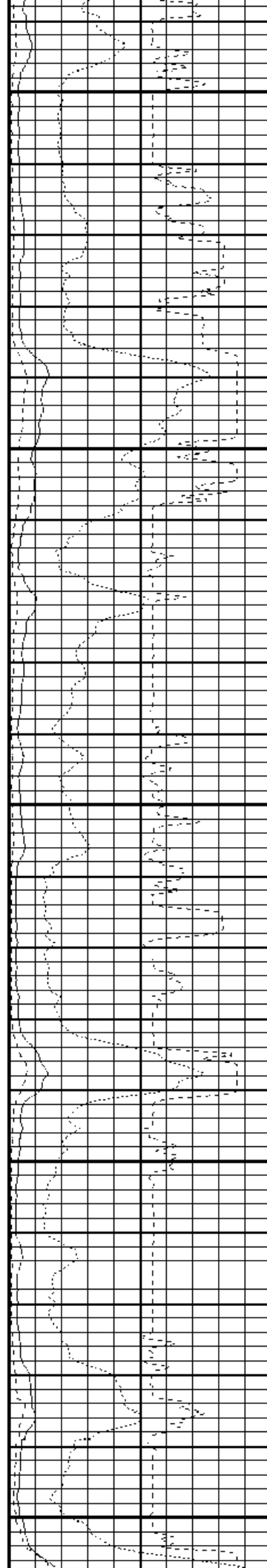
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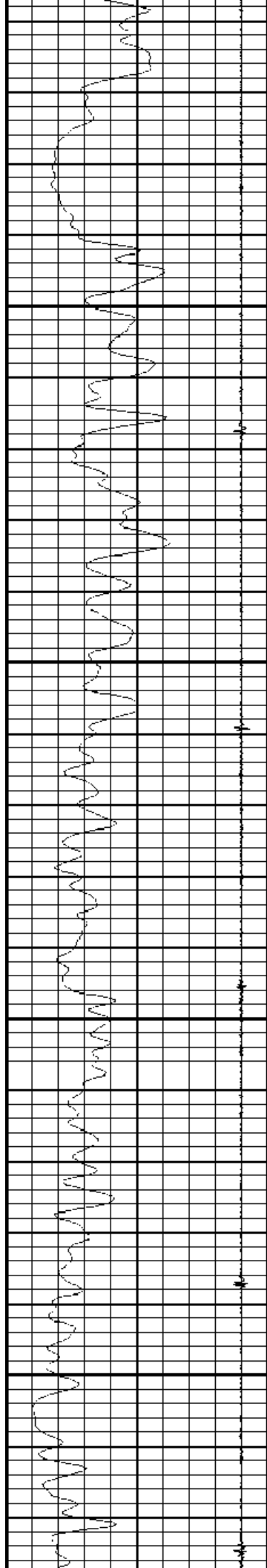
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2950

3000





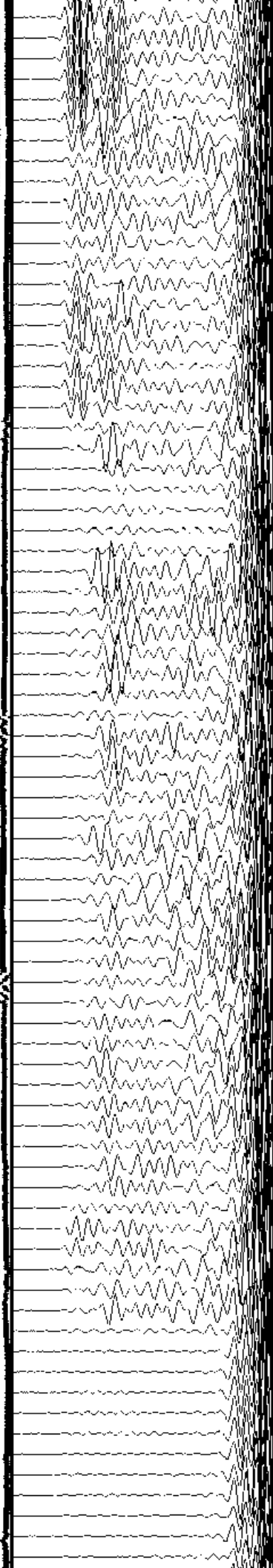
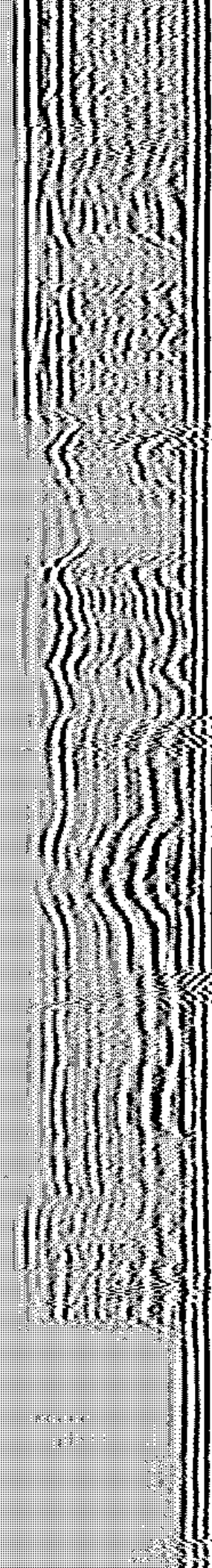
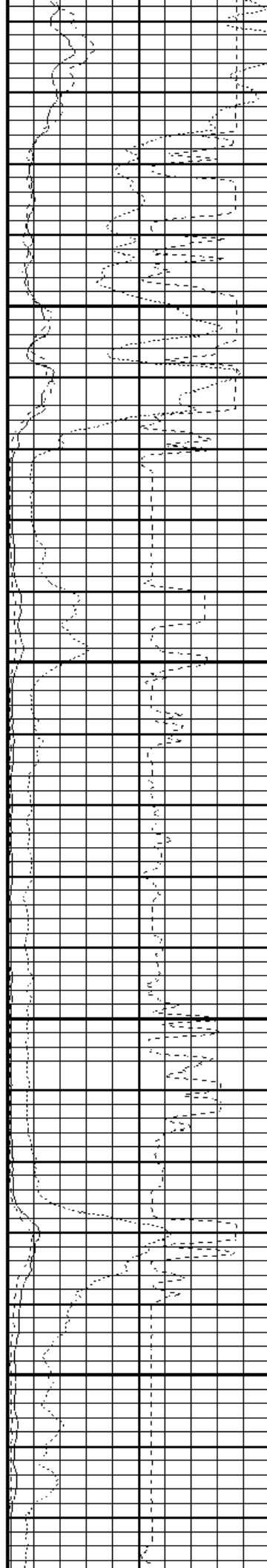


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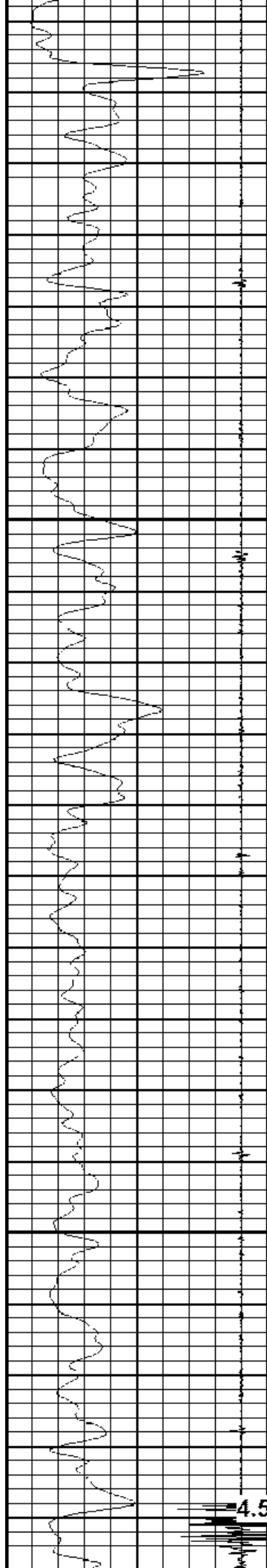
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3150

3200







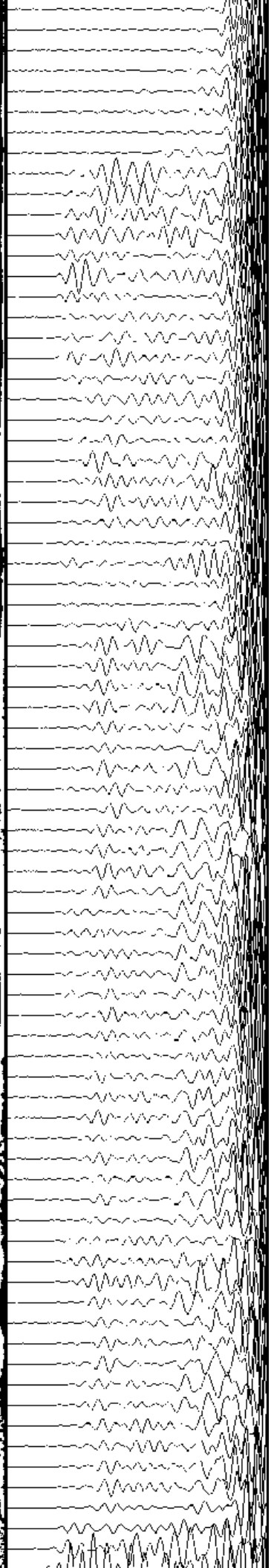
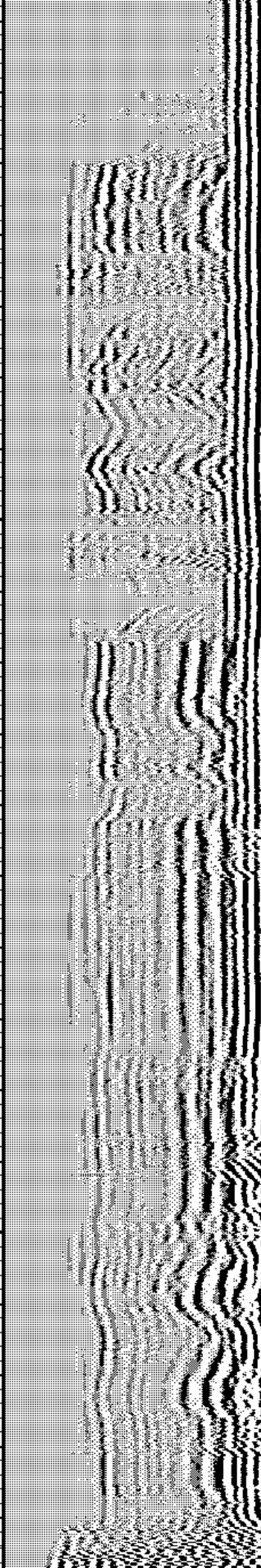
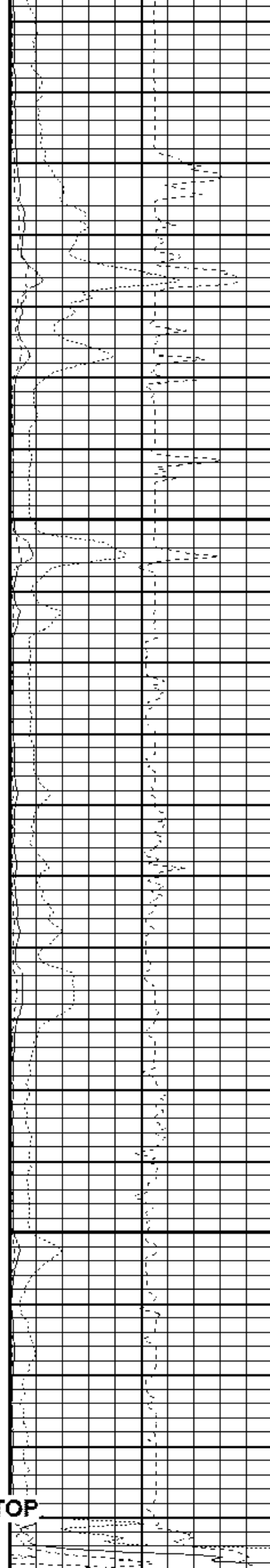
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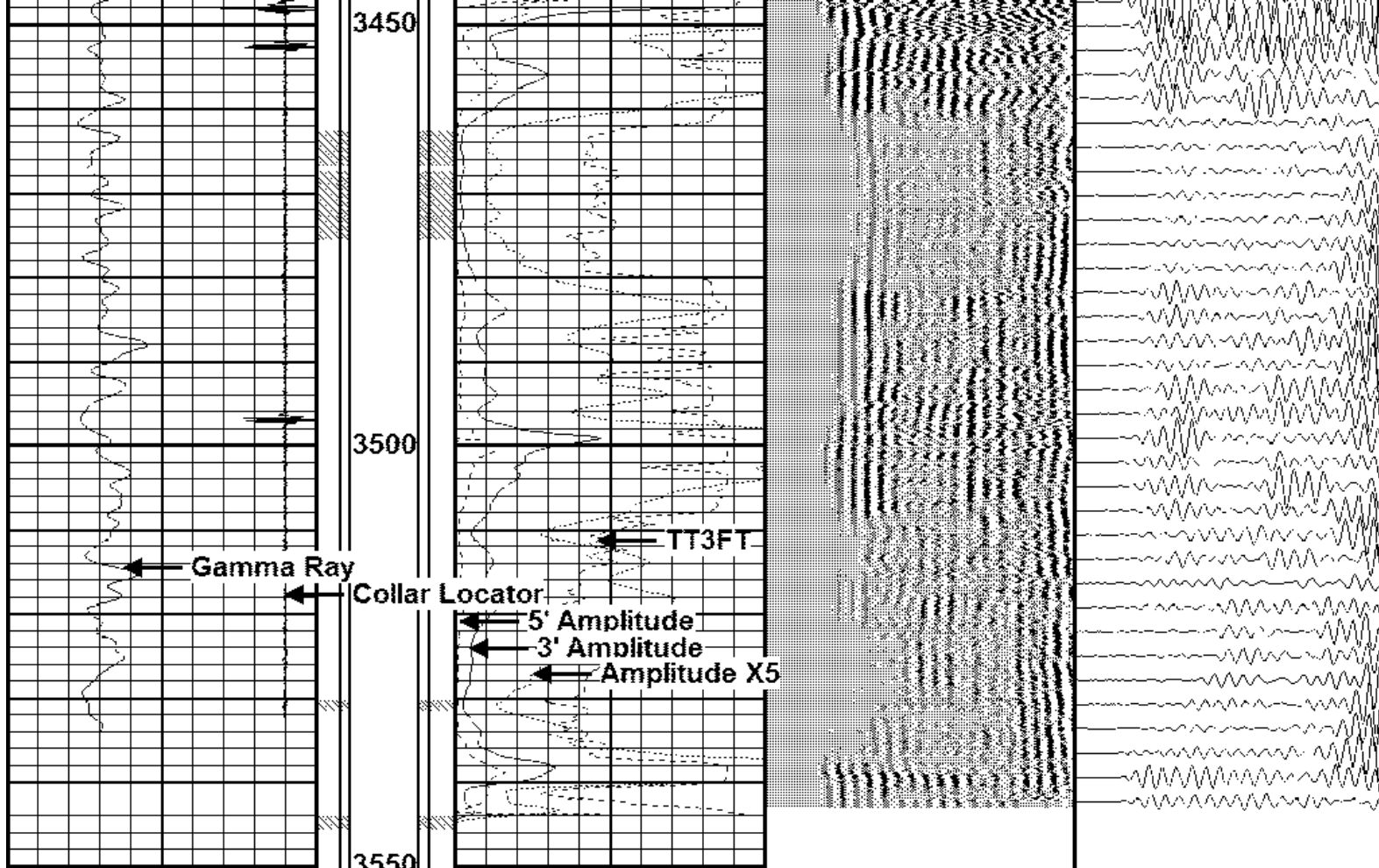
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3350

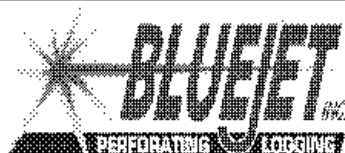
3400

4.5" LINER TOP

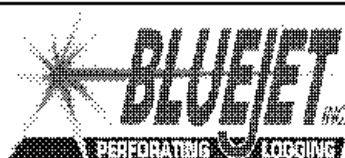




9	Collar Locator	-1	Amplitude X5	200	VDL	1200	200	WVF5FT	1200
0	Gamma Ray	200	0 (mV)	16					
			3' Amplitude						
			0 (mV)	80					
			TT3FT						
			1200 (usec)	200					
			Travel Time X10						
			300 (usec)	200					
			5' Amplitude						
			0 (mV)	80					



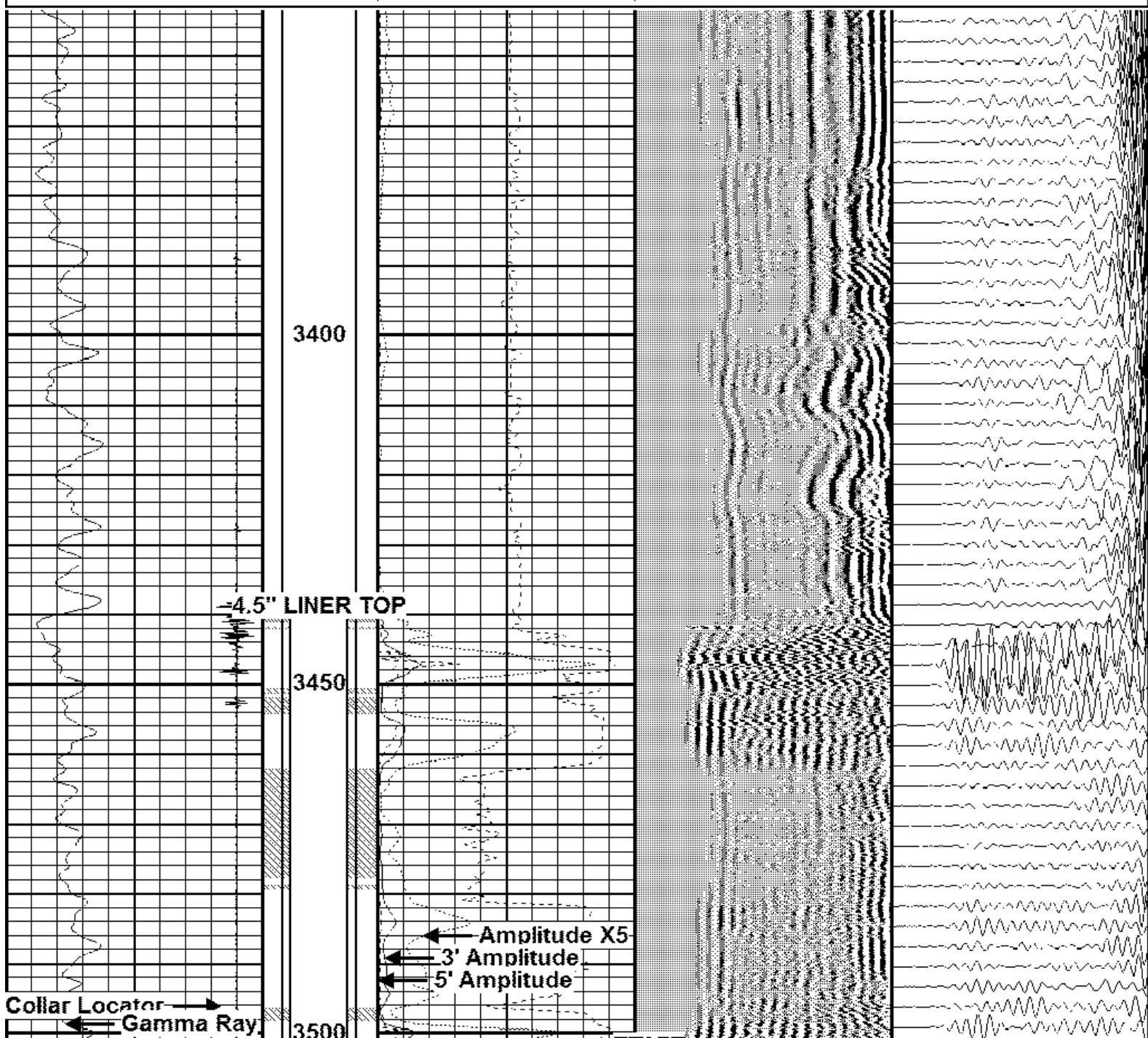
## MAIN PASS 7" CASING

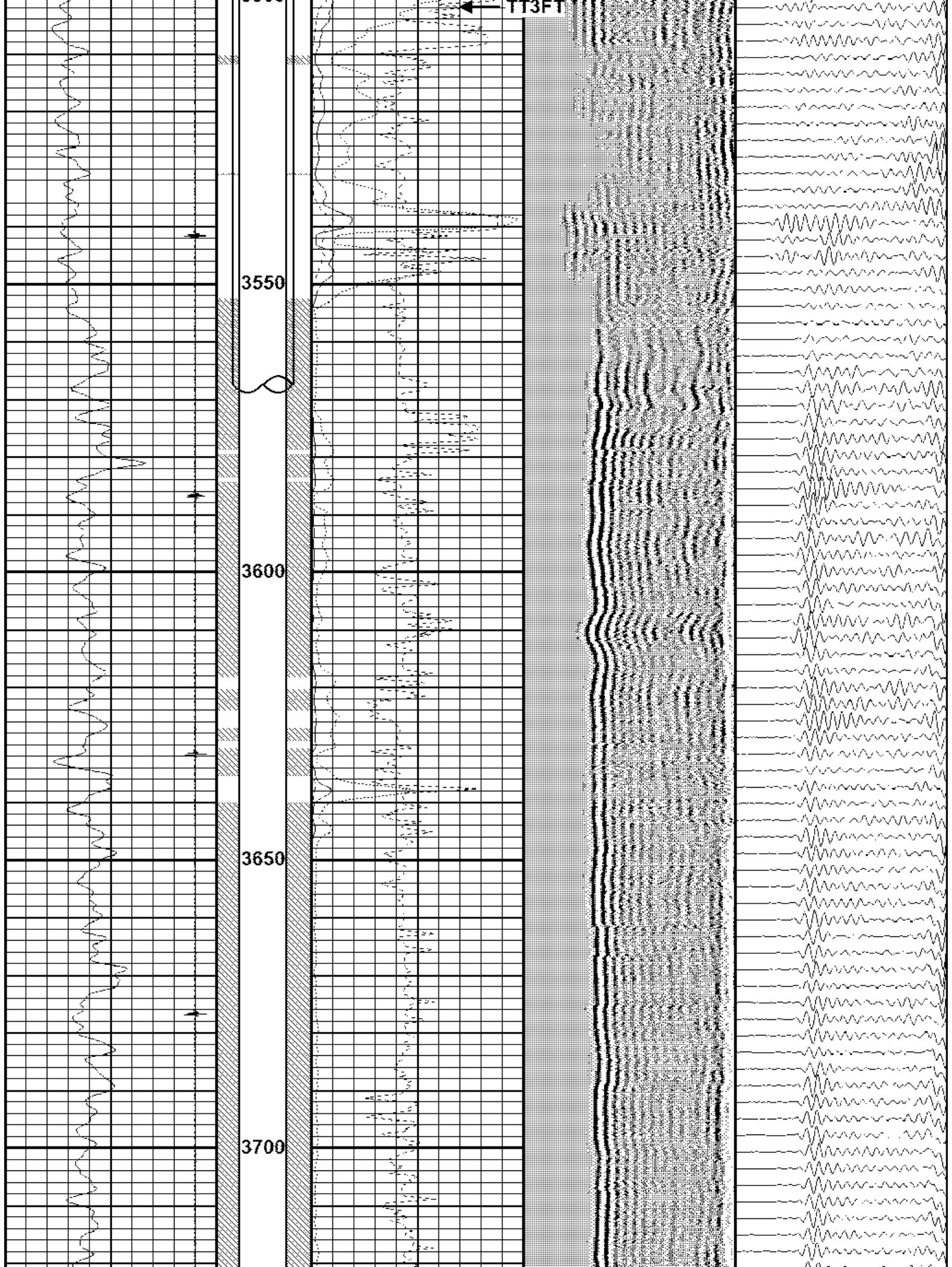


## MAIN PASS 4-1/2" CASING

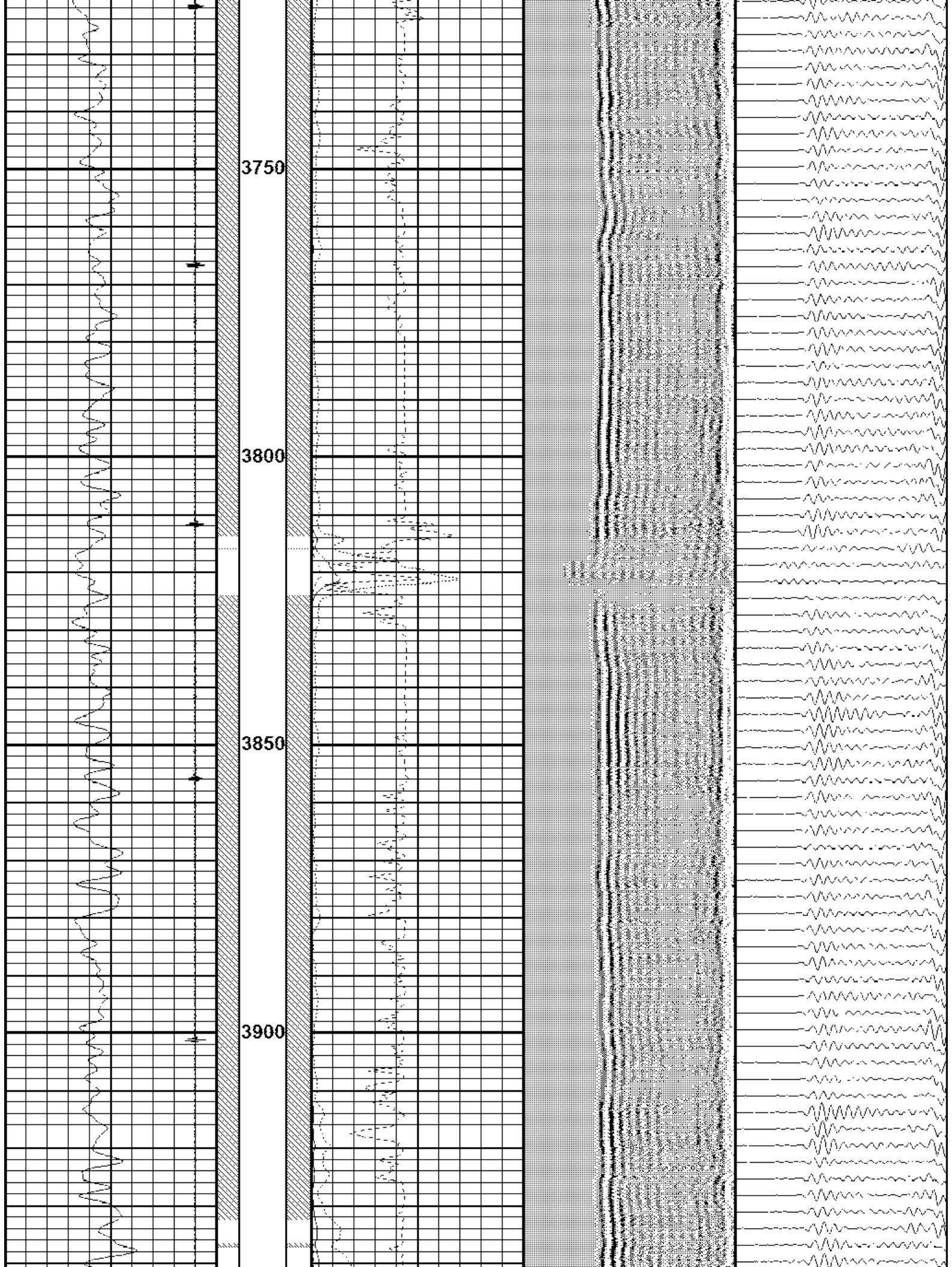
Database File copcarterute4amvcbl.db  
 Dataset Pathname fieldmv/wellcarterute4a/run1/pass4  
 Presentation Format ohMinn

9	Collar Locator	-1		Amplitude X5	200	VDL	1200	200	WVF5FT	1200
0	Gamma Ray	200		(mV)	24					
				3' Amplitude						
				(mV)	120					
				TT3FT						
				(usec)	200					
				Travel Time X10						
				(usec)	200					
				5' Amplitude						
				(mV)	120					

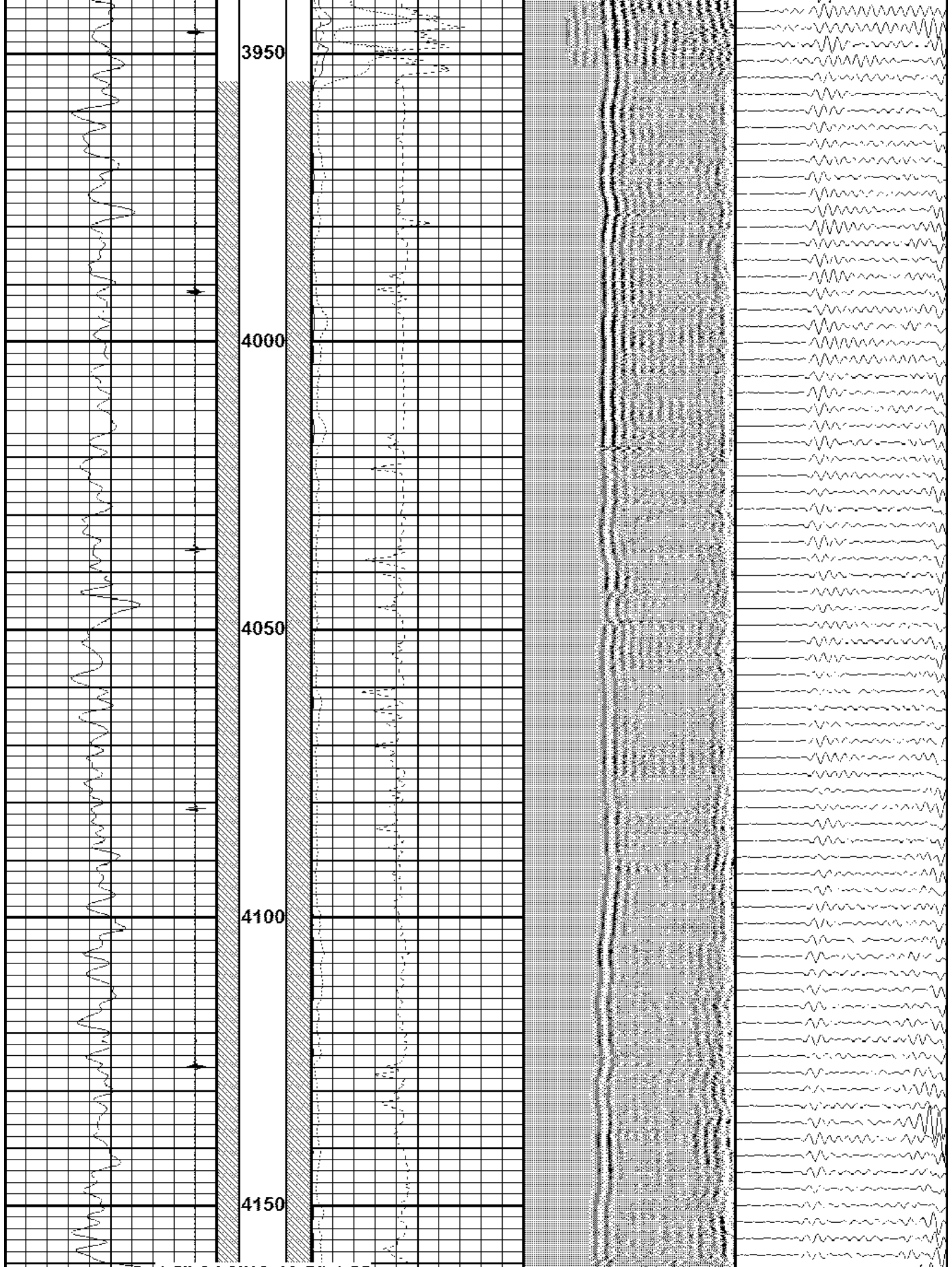




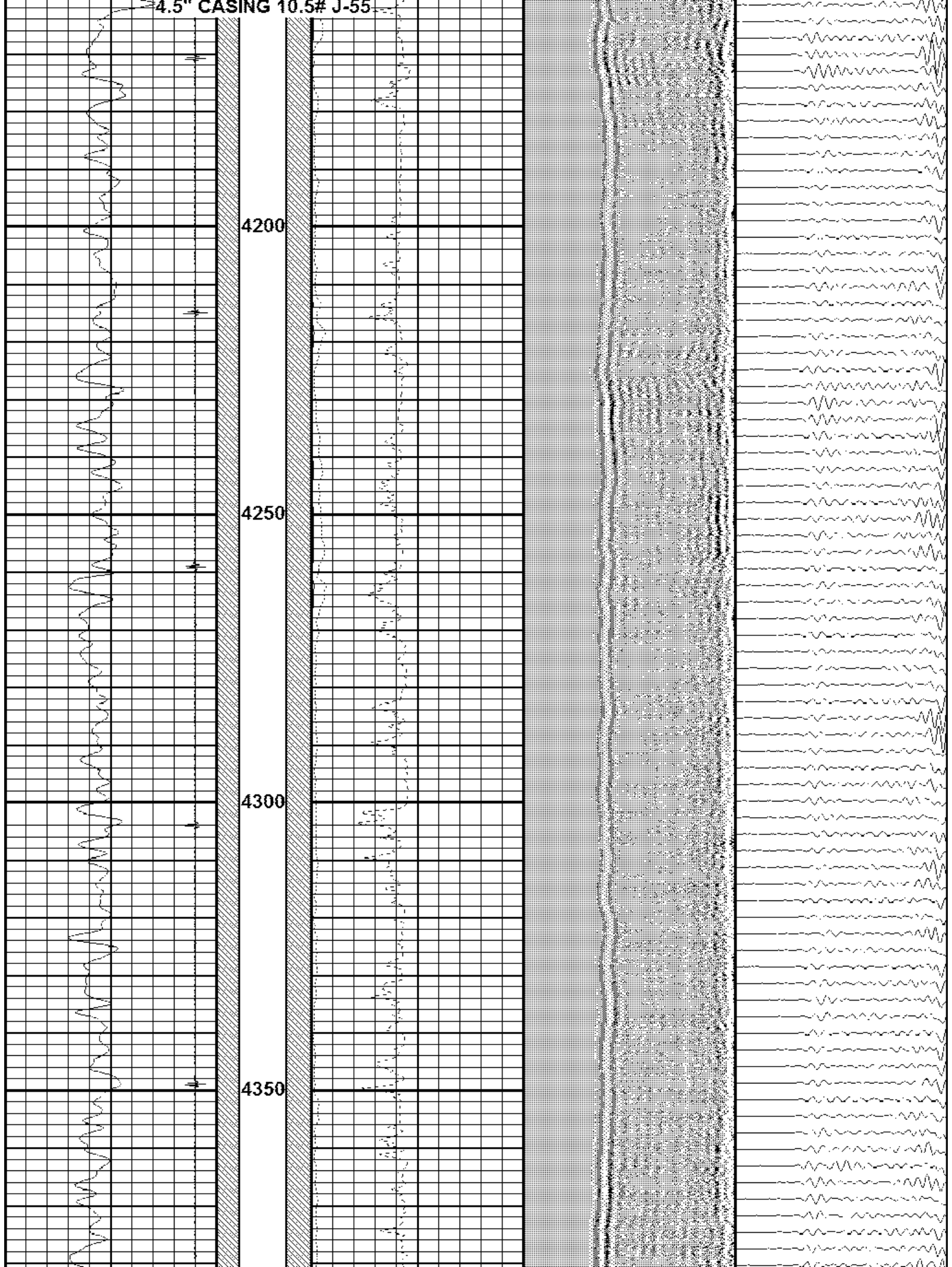


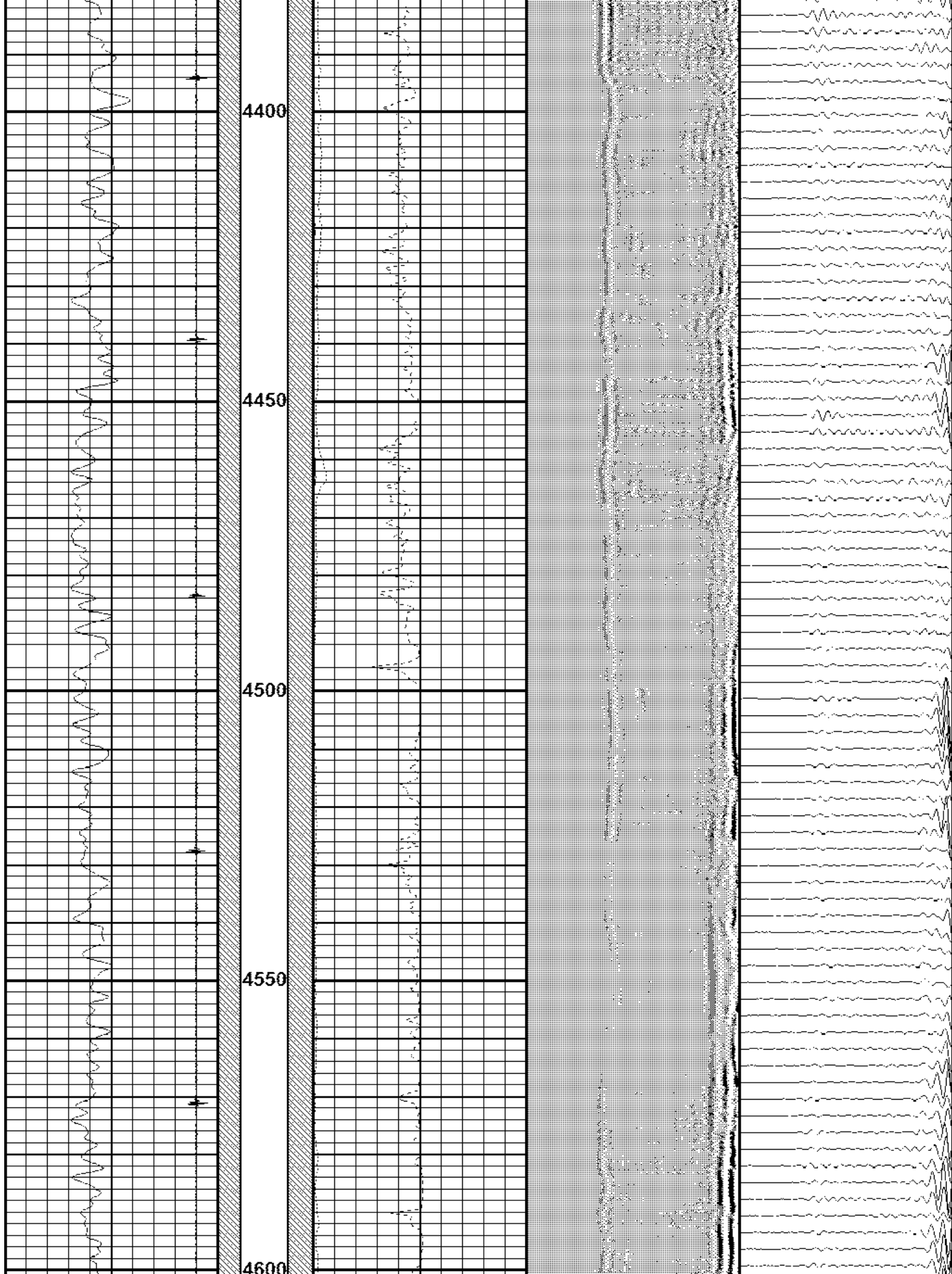


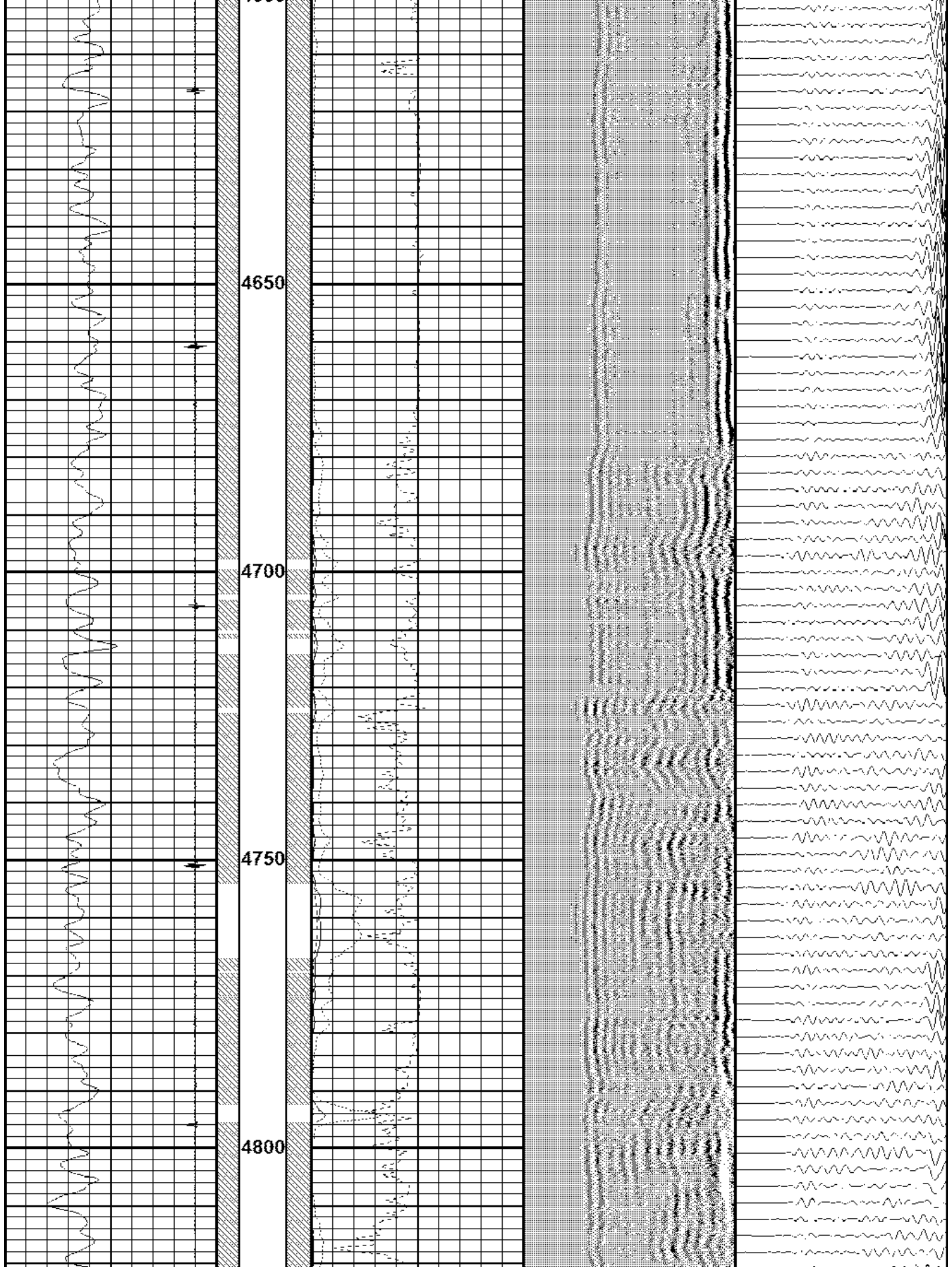




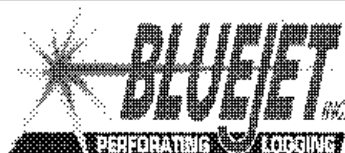
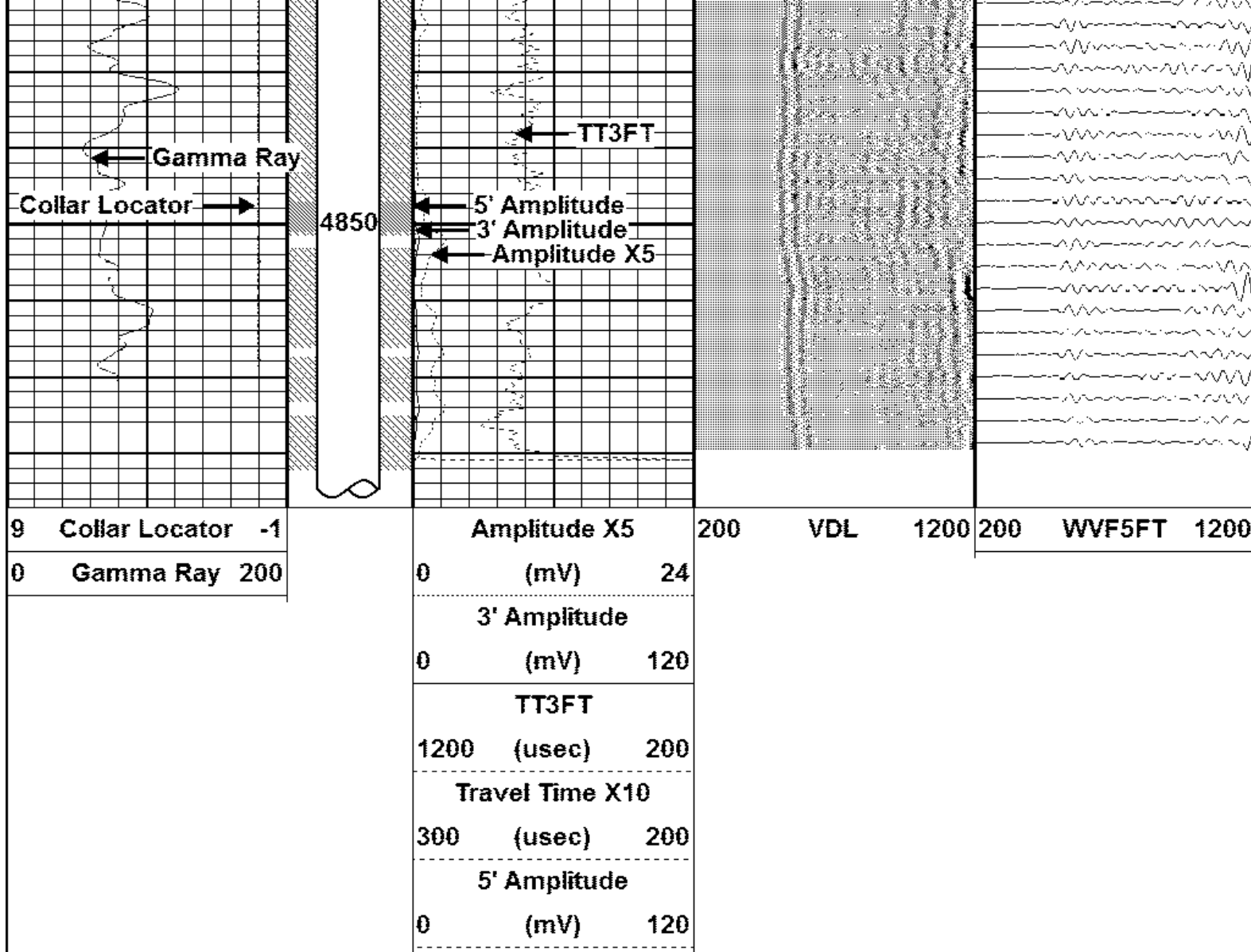
4.5" CASING 10.5# J-55











## MAIN PASS 4-1/2" CASING



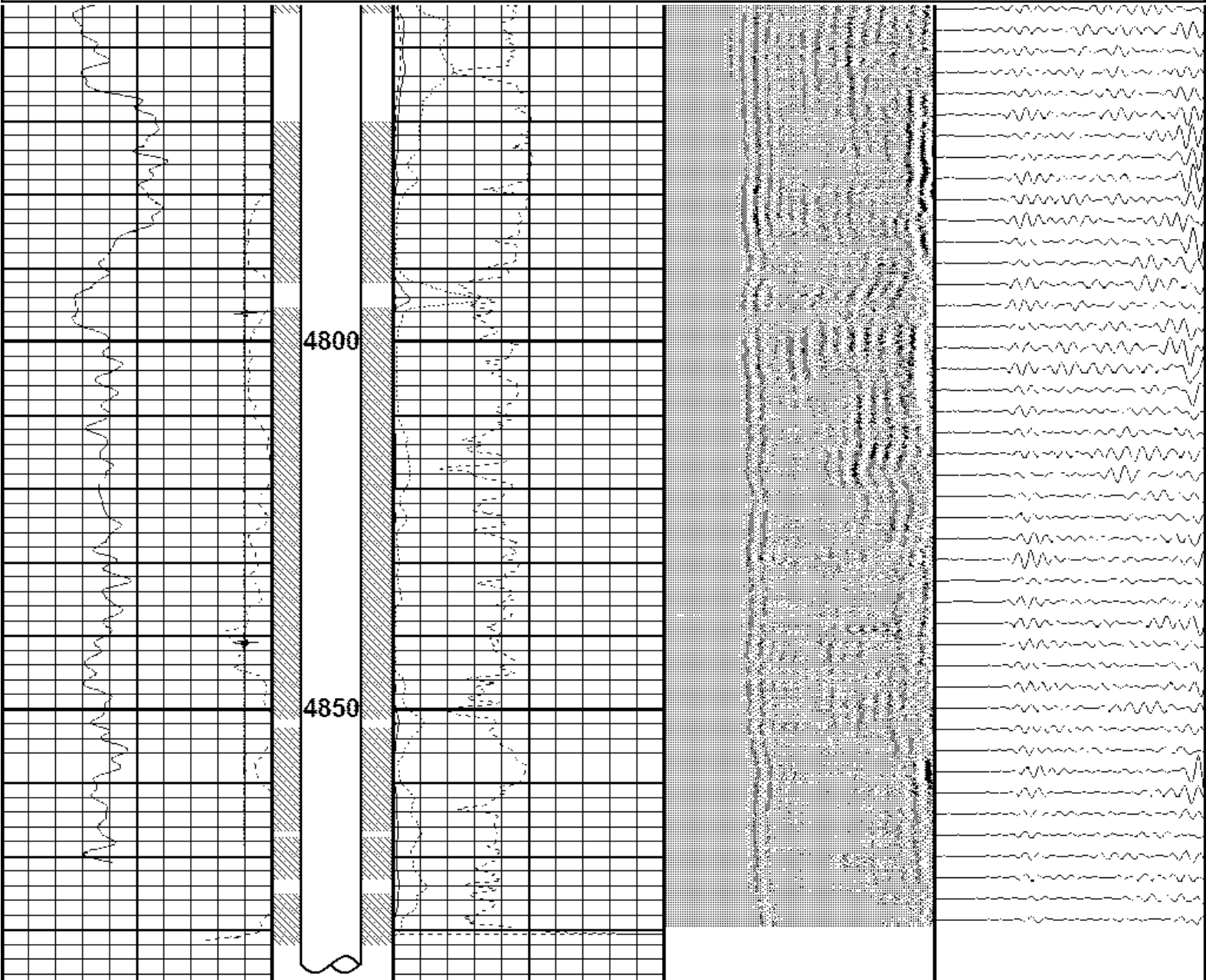
## REPEAT SECTION

Database File copcarterute4amvcbl.db  
 Dataset Pathname fieldmv/wellcarterute4a/run1/pass3  
 Presentation Format cbl4inplo  
 Dataset Creation Mon Aug 12 11:37:48 2013  
 Charted by Depth in Feet scaled 1:240

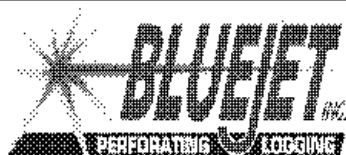
9	Collar Locator	-1	Amplitude X5	200	VDL	1200	200	WVF5FT	1200
0	Gamma Ray	200	0 (mV)	24					
5	BONDIX	0.9	3' Amplitude						
			0 (mV)	120					



TT3FT		
1200	(usec)	200
Travel Time X10		
300	(usec)	200
5' Amplitude		
0	(mV)	120



9	Collar Locator	-1		Amplitude X5	200	VDL	1200	200	WVF5FT	1200
0	Gamma Ray	200	0	(mV)	24					
5	BONDIX	0.9		3' Amplitude						
			0	(mV)	120					
				TT3FT						
			1200	(usec)	200					
				Travel Time X10						
			300	(usec)	200					
				5' Amplitude						



# REPEAT SECTION

## Calibration Report

Database File copcarterute4amvcbl.db  
 Dataset Pathname fieldmv/wellcarterute4a/run1/pass5  
 Dataset Creation Mon Aug 12 12:02:33 2013

## CBL Calibration Report

Serial Number:	DRC		
Tool Model:	SIE		
Performed:	Wed Jan 23 08:26:19 2013		
Depth:	0.000	ft	
Casing Diameter:	5.500	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.450	0.450	mV
Calibrated Amplitude:	71.000	71.000	mV
Reading at Signal Zero:	0.001	0.001	V
Reading in Free Pipe:	0.255	0.771	V
Gain:	278.192	98.622	
Offset:	0.178	0.325	

## Gamma Ray Calibration Report

Serial Number:	DRC	
Tool Model:	SIE	
Performed:	Mon Aug 12 11:02:46 2013	
Calibrator Value:	360.0	
Background Reading:	0.0	cps
Calibrator Reading:	230.0	cps
Sensitivity:	1.5652	/cps