

Reeves

CEMENT BOND LOG

CML

1:200

COMPANY	SANTOS LTD.		
WELL	SEAMER 1		
FIELD	EXPLORATION		
PROVINCE/COUNTRY	VICTORIA		
COUNTRY/STATE	AUSTRALIA		
LOCATION	ONSHORE OTWAY BASIN		
LSD	SEC	TWP	RGE
			Other Services
			CORR. TUBING STOP
API Number	Permit Number PEP 153		
Permanent Datum MSL	, Elevation 0 metres		
Log Measured From RT @ 63.7 m	above Permanent Datum		
Drilling Measured From RT			
Date	10-FEB-2003		Elevations: KB 63.70 metres DF 63.70 metres GL 58.51 metres
Run Number	ONE		
Depth Driller	1343.00	metres	
Depth Logger	1340.60	metres	
First Reading	1339.00	metres	
Last Reading	150.00	metres	
Casing Driller	1343.00	metres	
Casing Logger	1343.00	metres	
Bit Size	6.75	inches	
Hole Fluid Type	BRINE		
Density / Viscosity			
PH / Fluid Loss			
Sample Source	N/A		
Rm @ Measured Temp			
Rmf @ Measured Temp			
Rmc @ Measured Temp			
Source Rmf / Rmc	N/A	N/A	
Rm @ BHT			
Time Since Circulation	N/A		
Max Recorded Temp	56.00	deg C	
Equipment Name	CML		
Equipment / Base		ROMA	
Recorded By	M.BARNES		
Witnessed By	P.POLLARD		
Last Title			

BOREHOLE RECORD

Bit Size inches	Depth From metres	Depth To metres
6.750	434.50	1360.00

CASING RECORD

Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
	3.500	0.00	1356.50	9.20

REMARKS

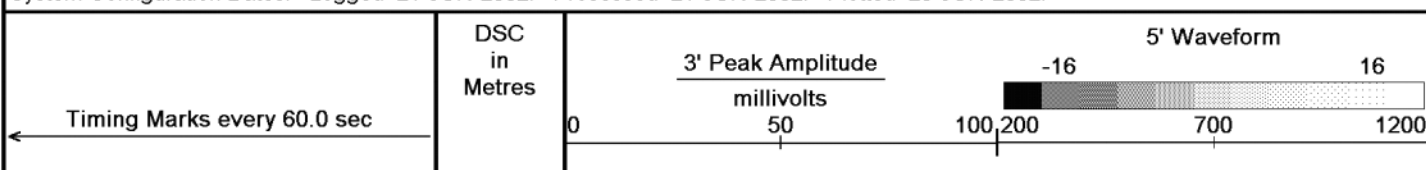
- 38 DEG 33' 24.28" S, 143 DEG 01' 15.7" E.

- Memory CBL recorded on Slickline Unit (Expertest 224).

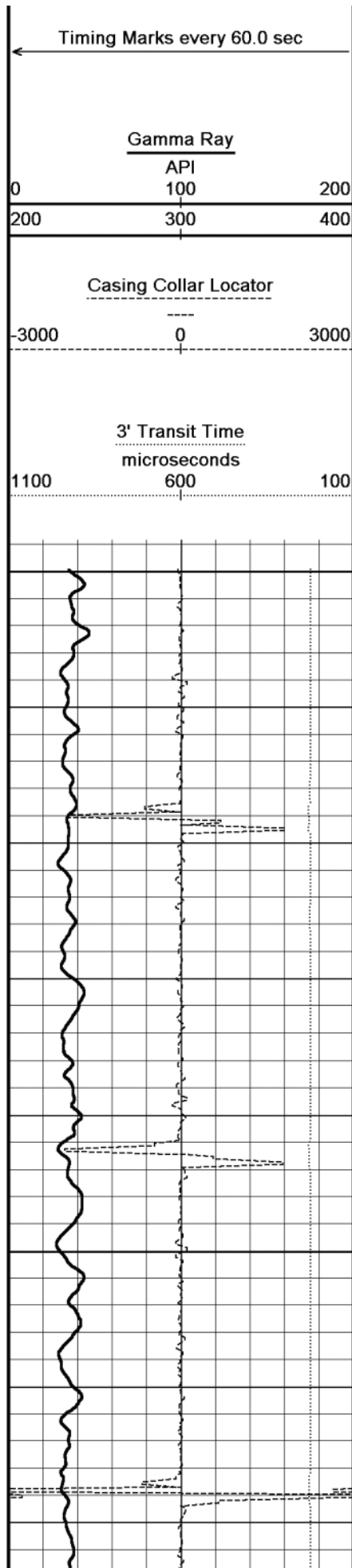
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

MAIN LOG B

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\data\seamer 1\MAIN LOG B.dta
System Configuration Dates: Logged 21-JUN-2002: Processed 21-JUN-2002: Plotted 20-JUN-2002:
Plotted on 11-FEB-2003 14:56
Recorded on 10-JAN-2003 15:33



Reeves



Metres

Borehole
Temp in
deg C

Replay
Scale
1:200

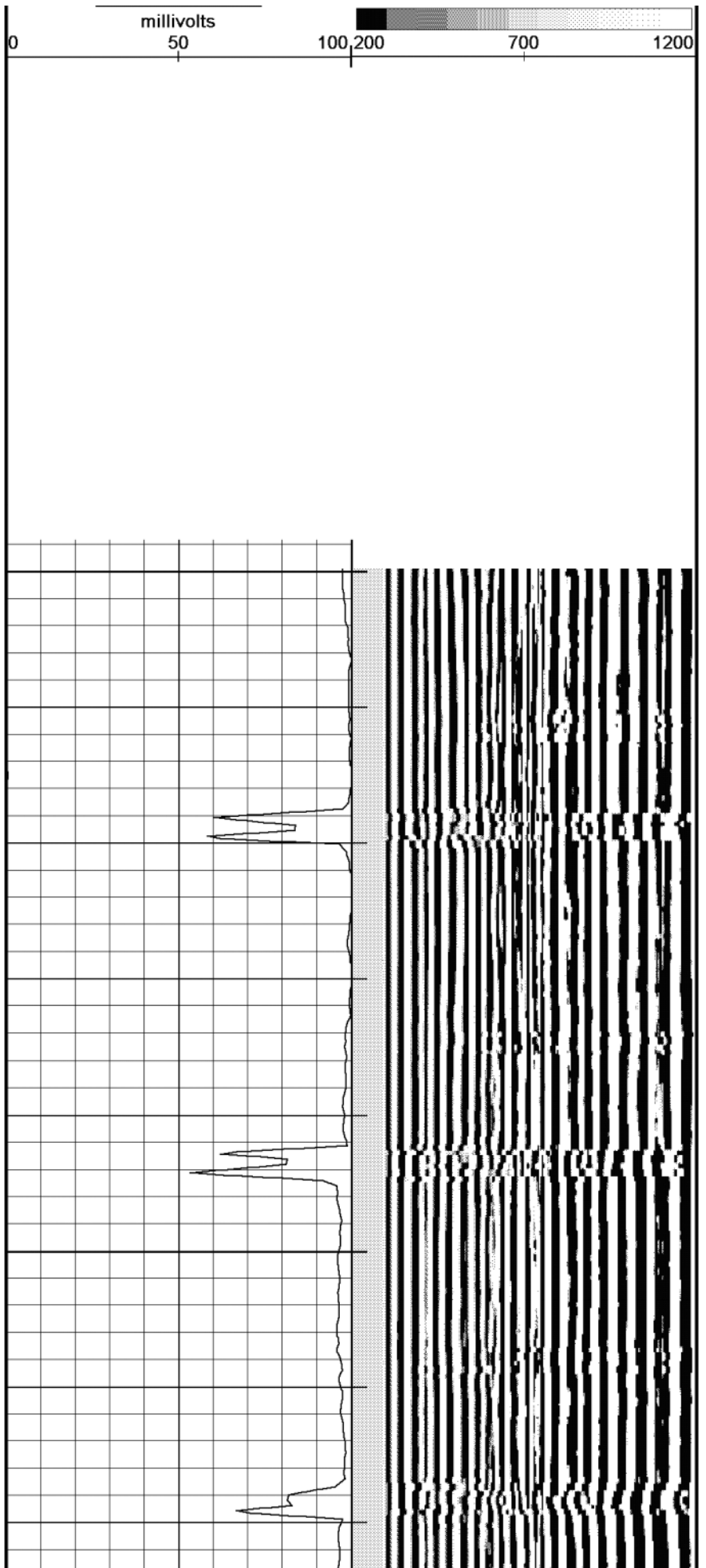
150

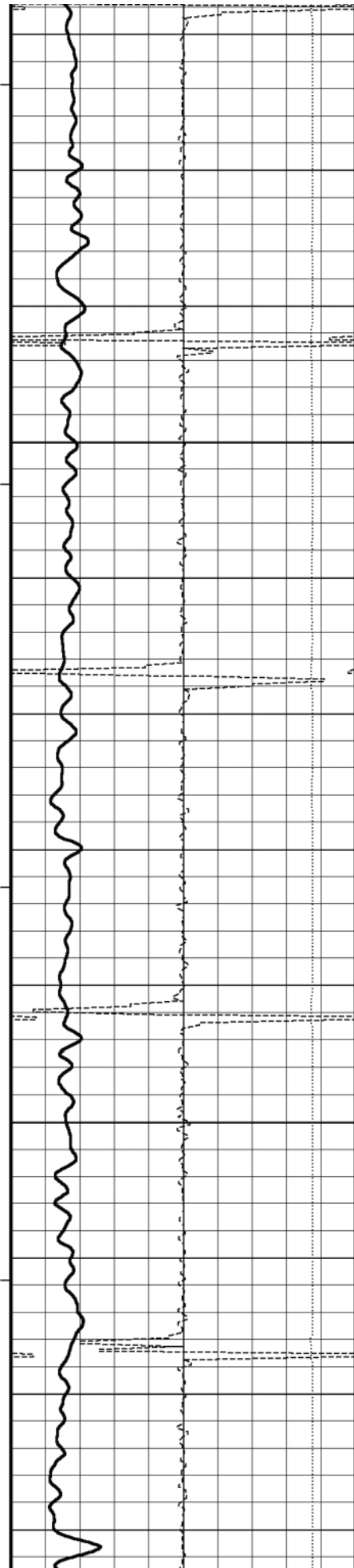
160

22°

170

180





23°

190

200

210

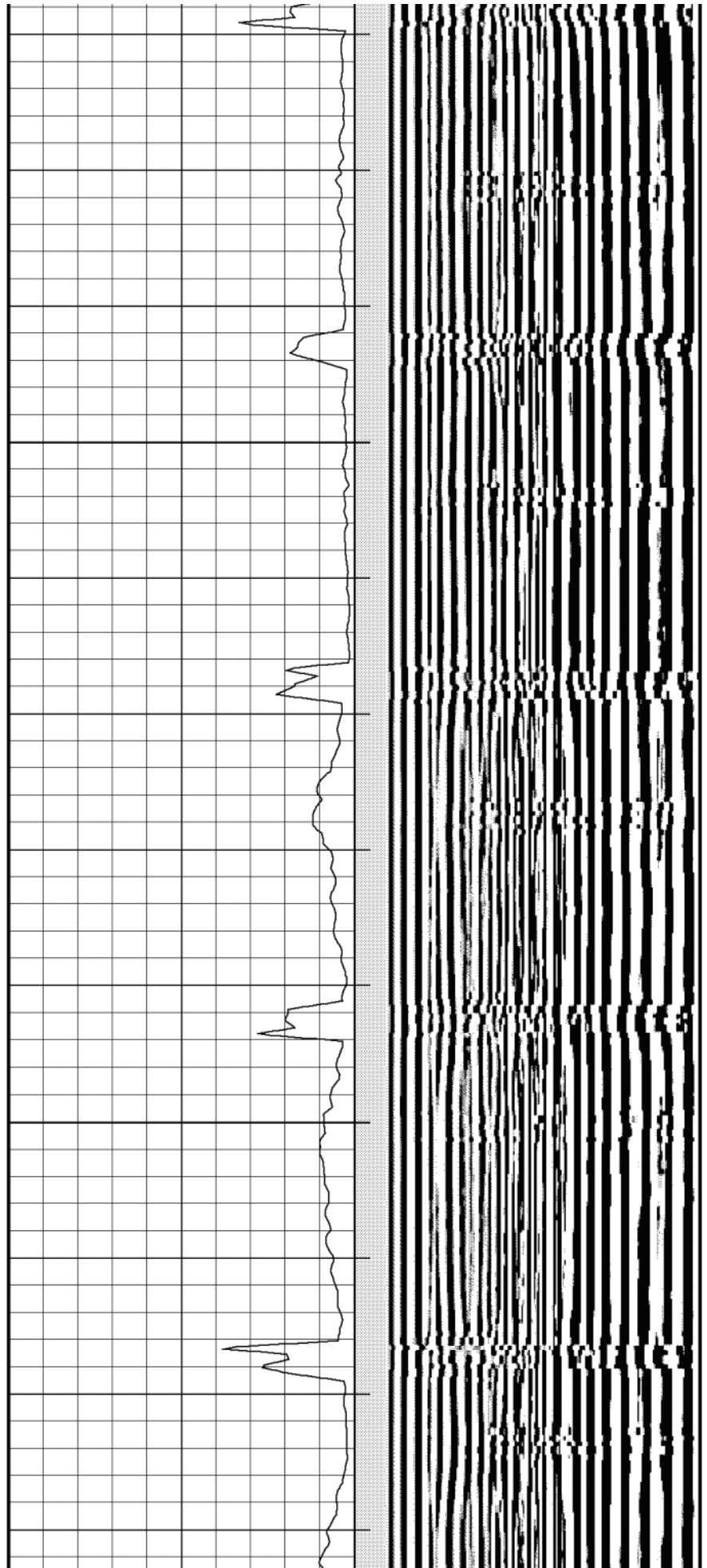
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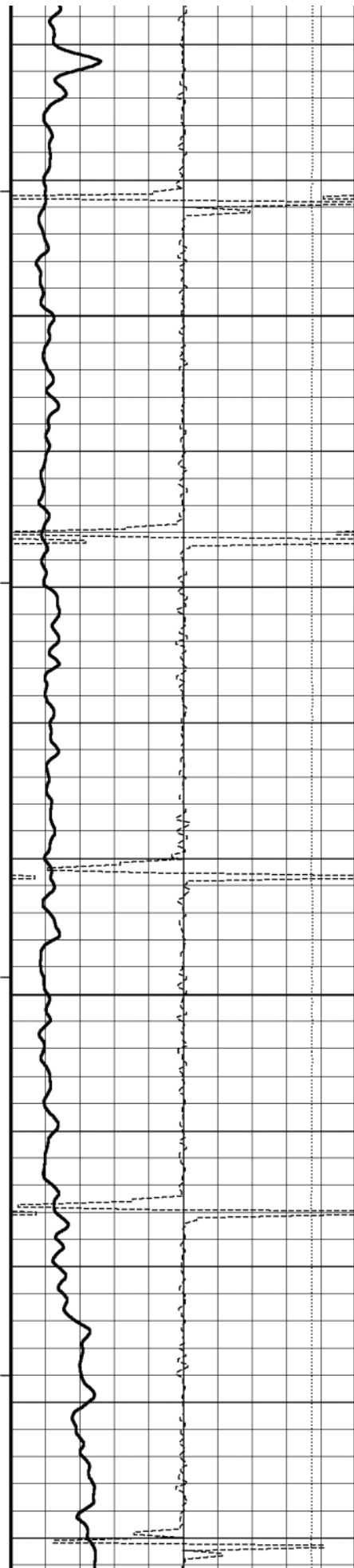
220

230

25°

240





240

250

260

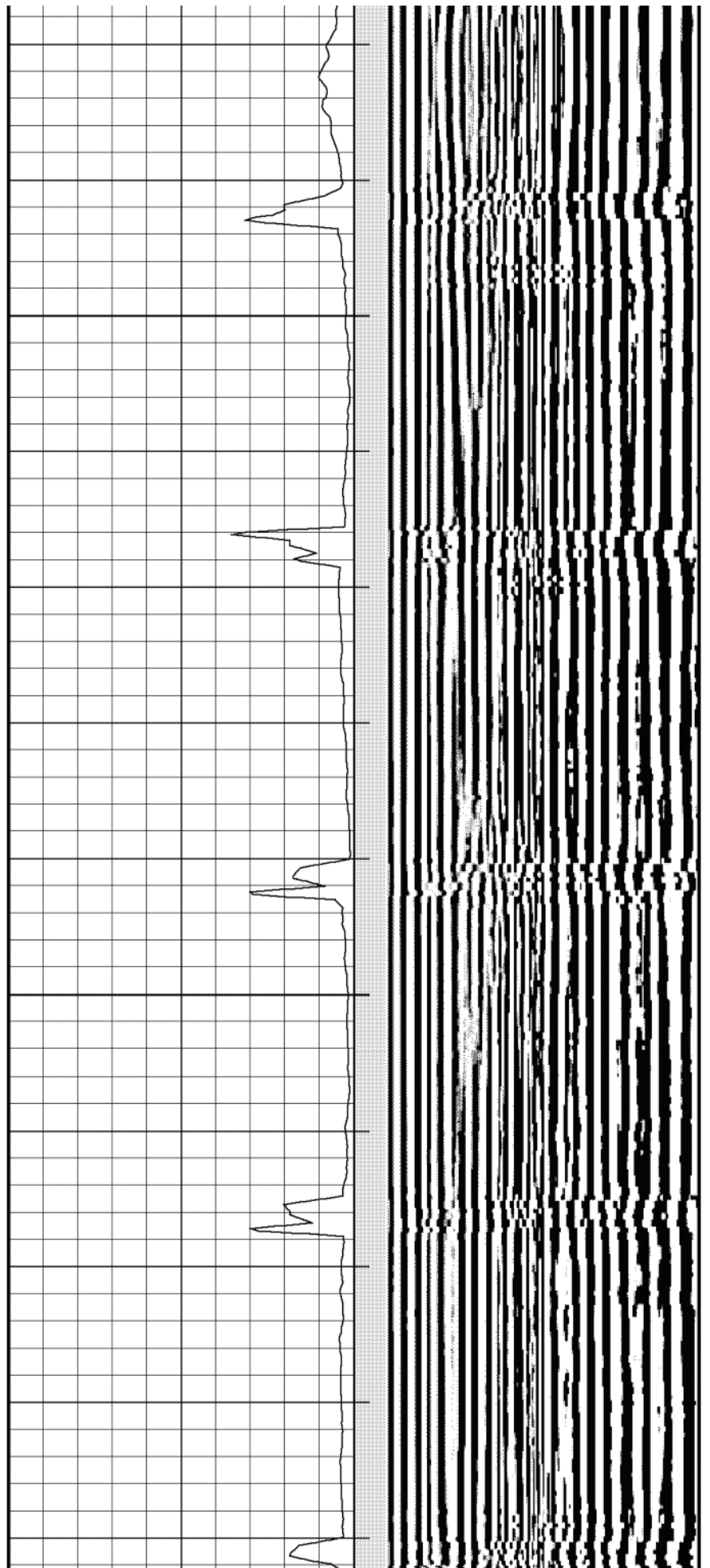
26°

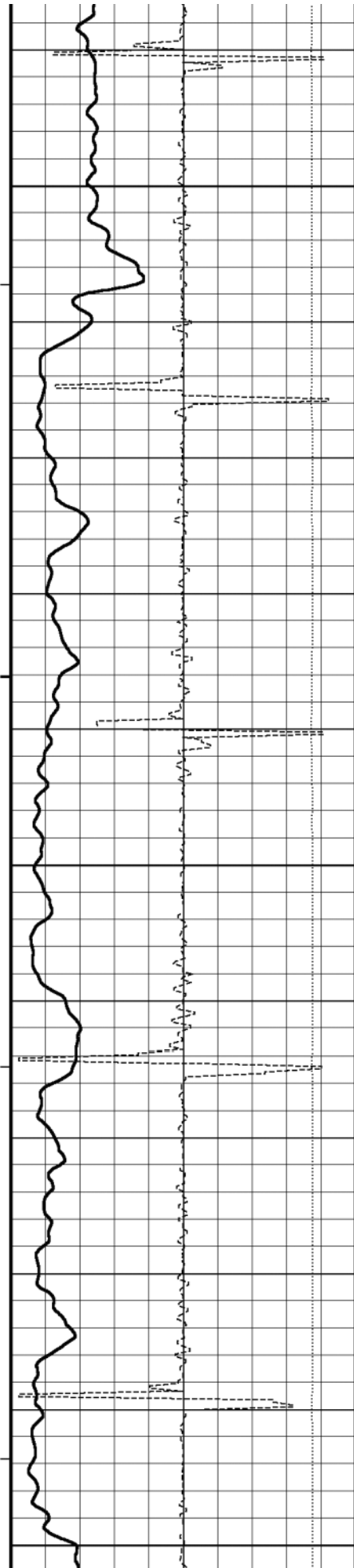
270

280

27°

290





300

310

28°

320

330

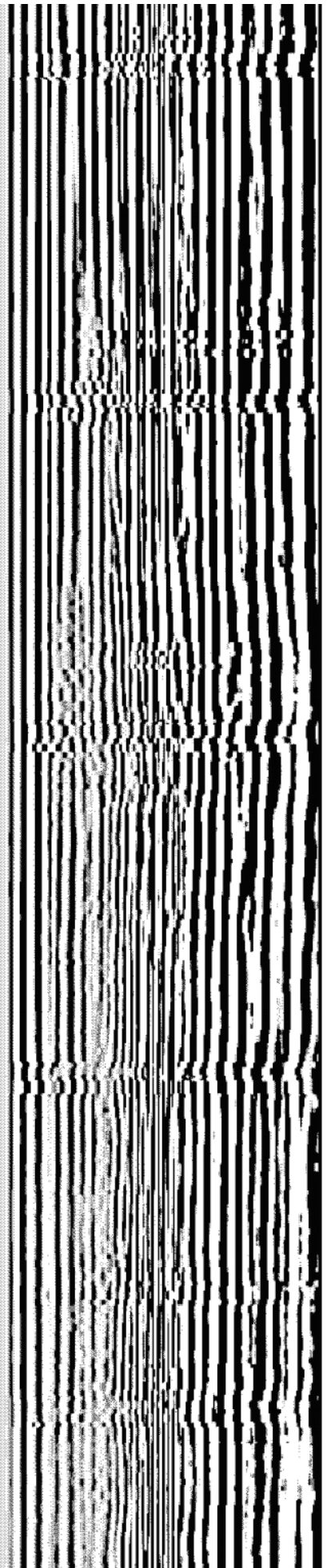
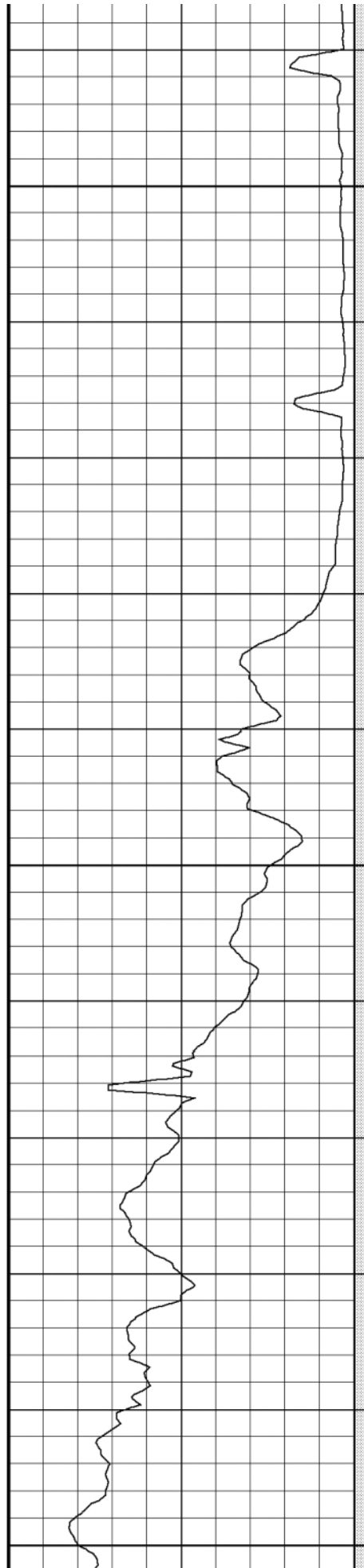
28°

340

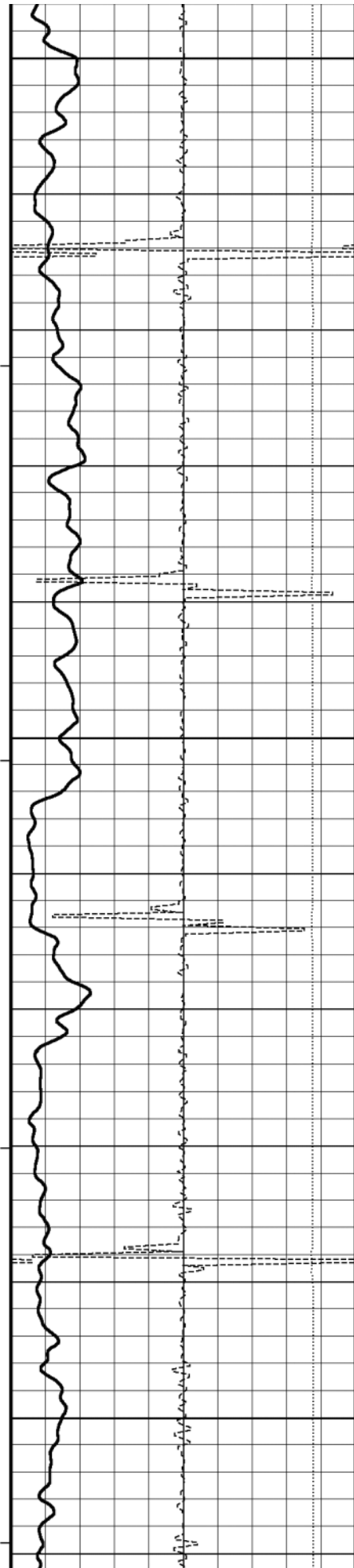
350

Reeves

Printed with ReeView



Page 5 of 22



350

360

29°

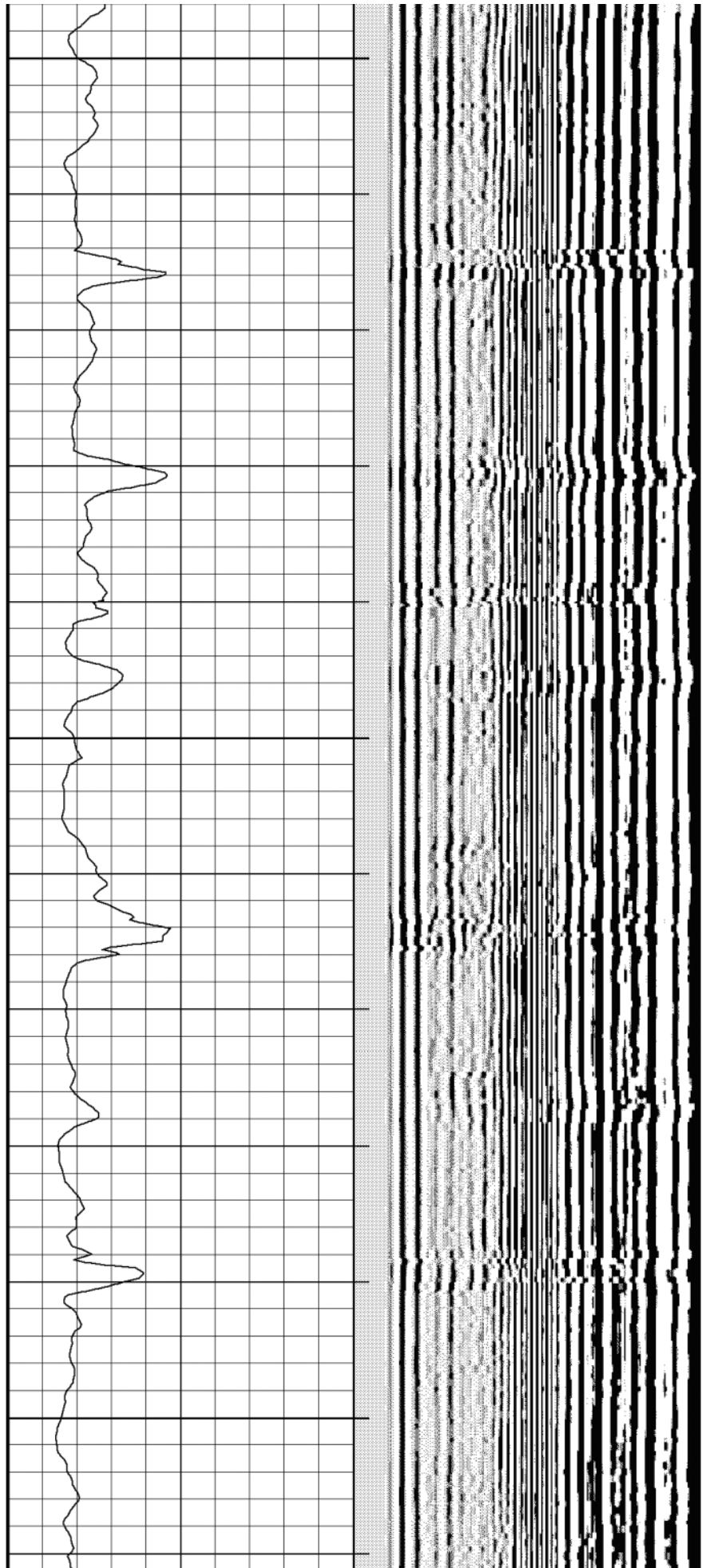
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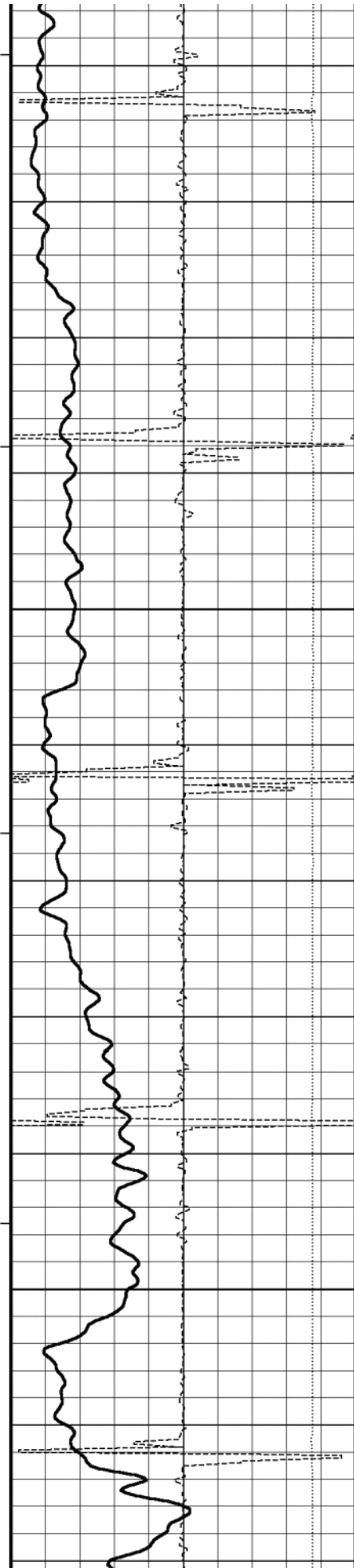
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30°

390

400





410

30°

420

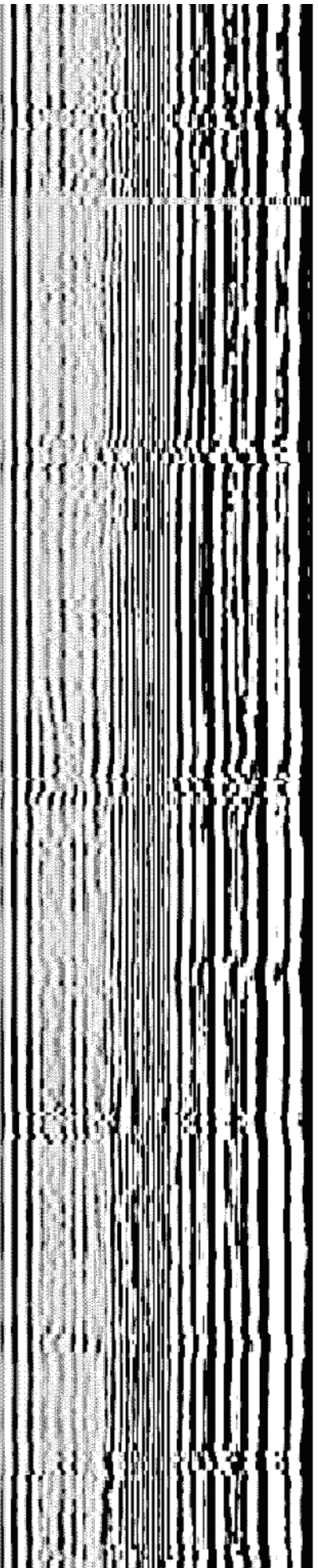
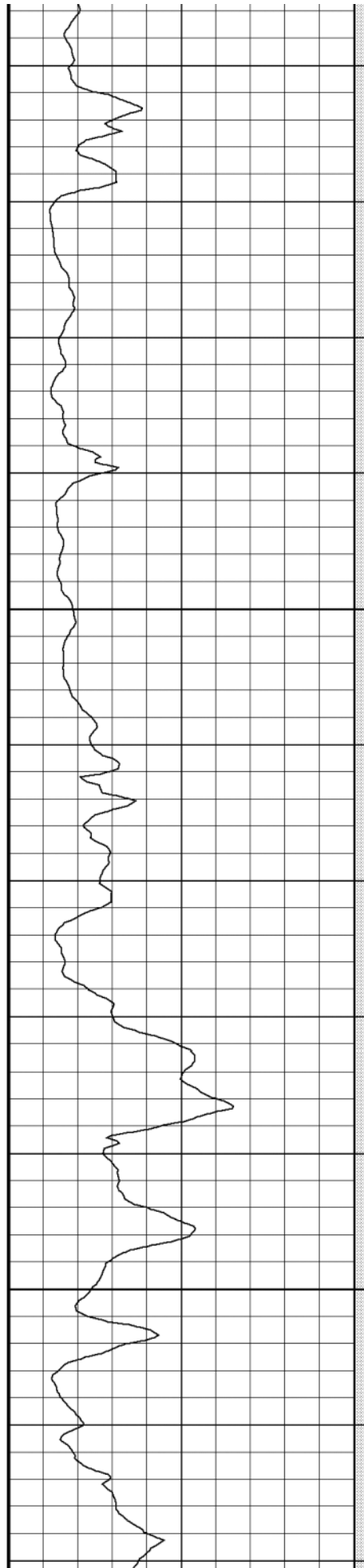
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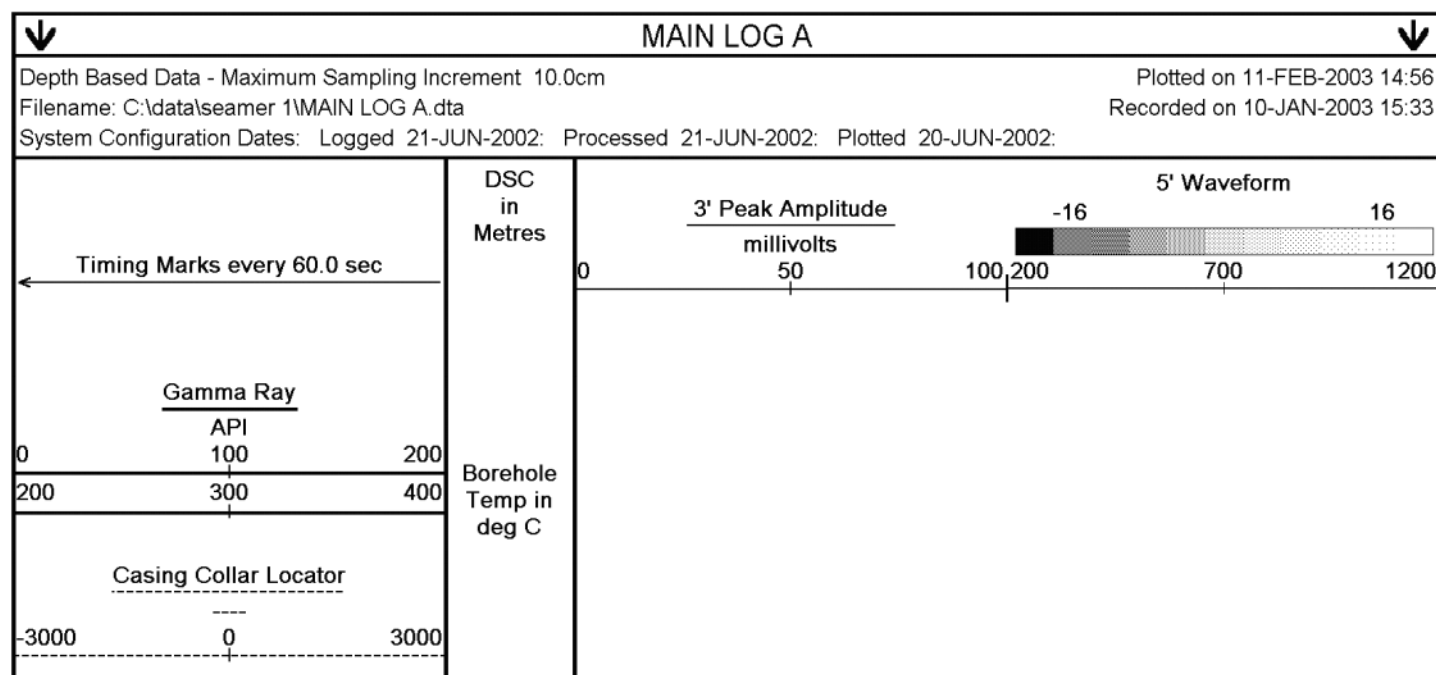
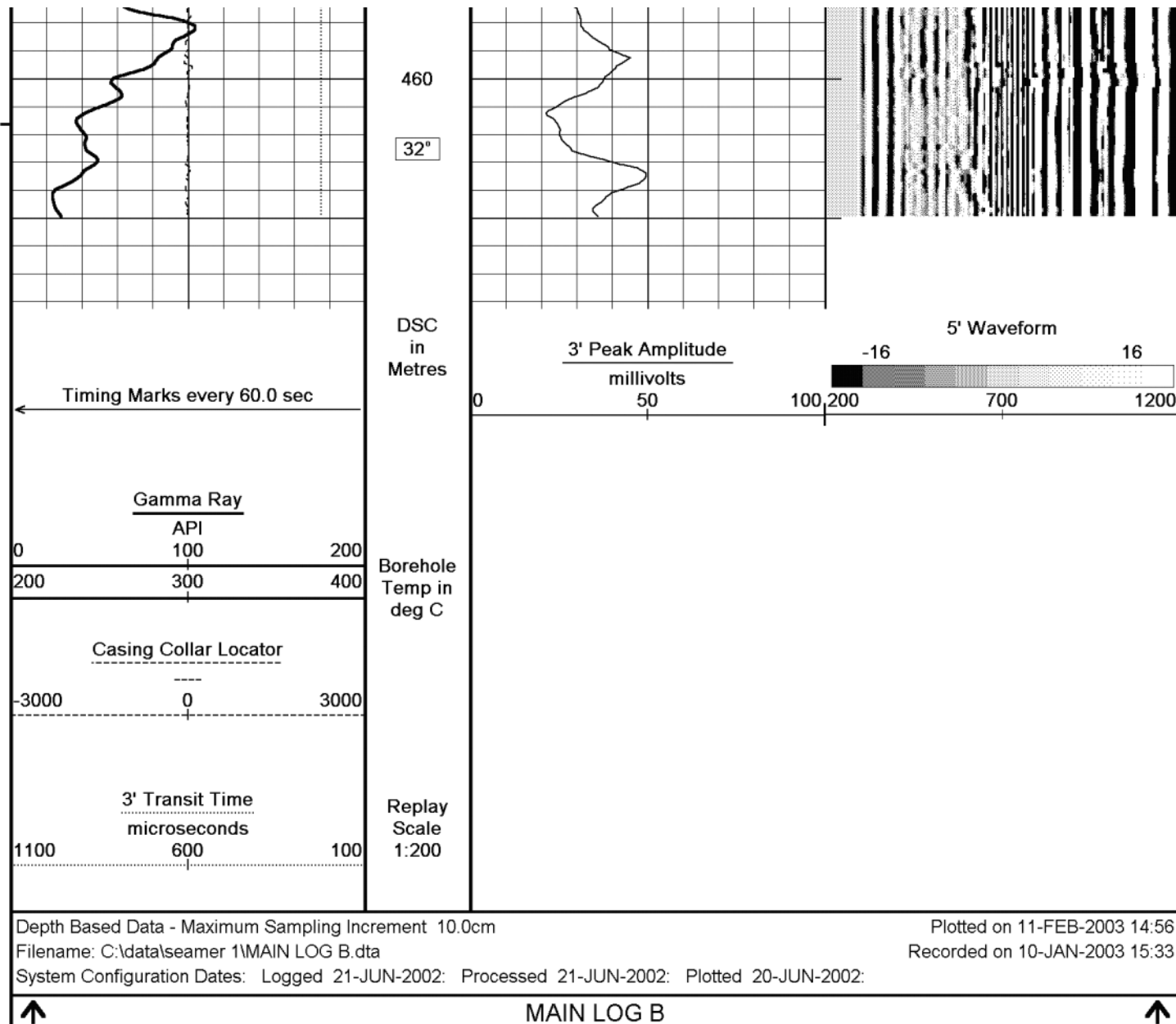
31°

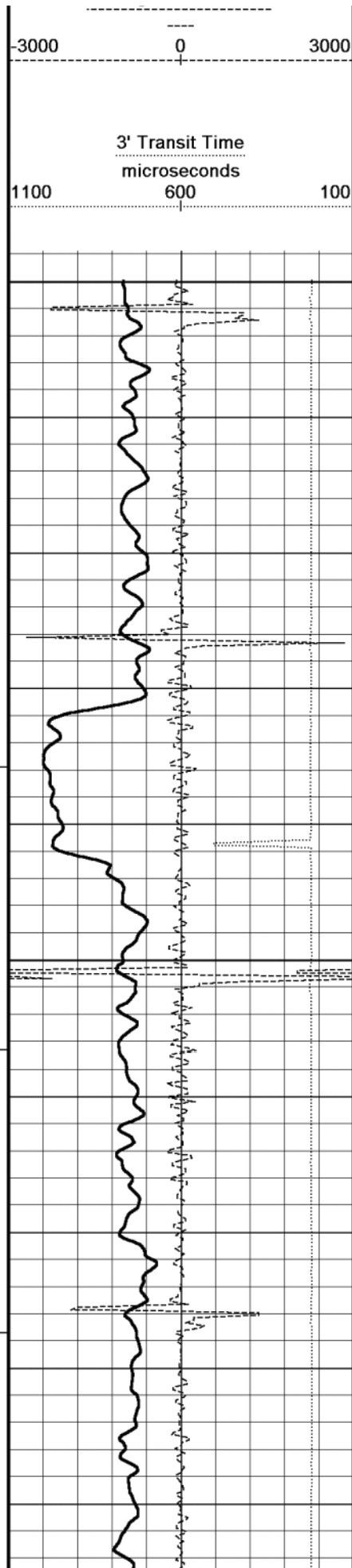
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450

460







Replay
Scale
1:200

900

910

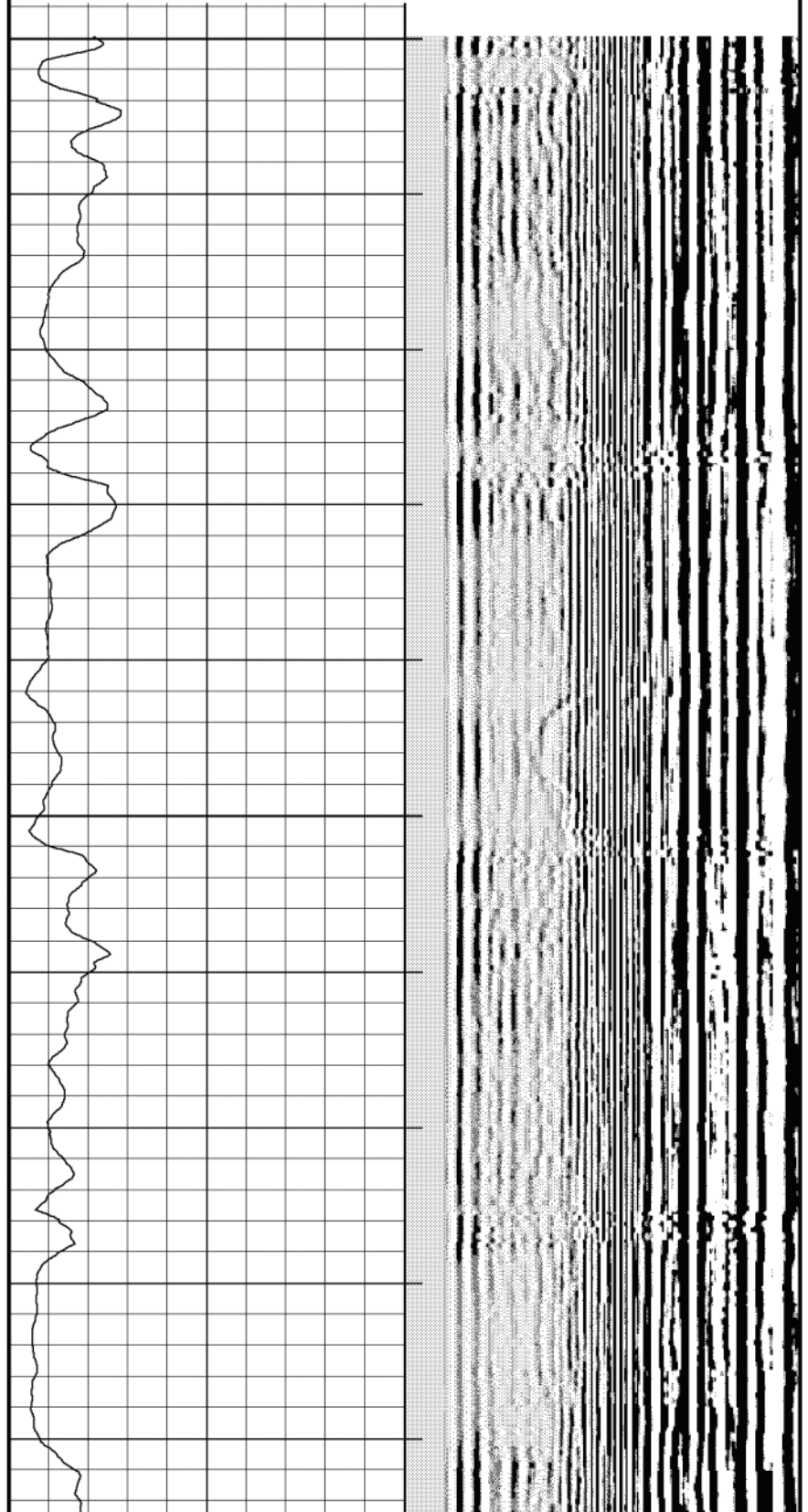
44°

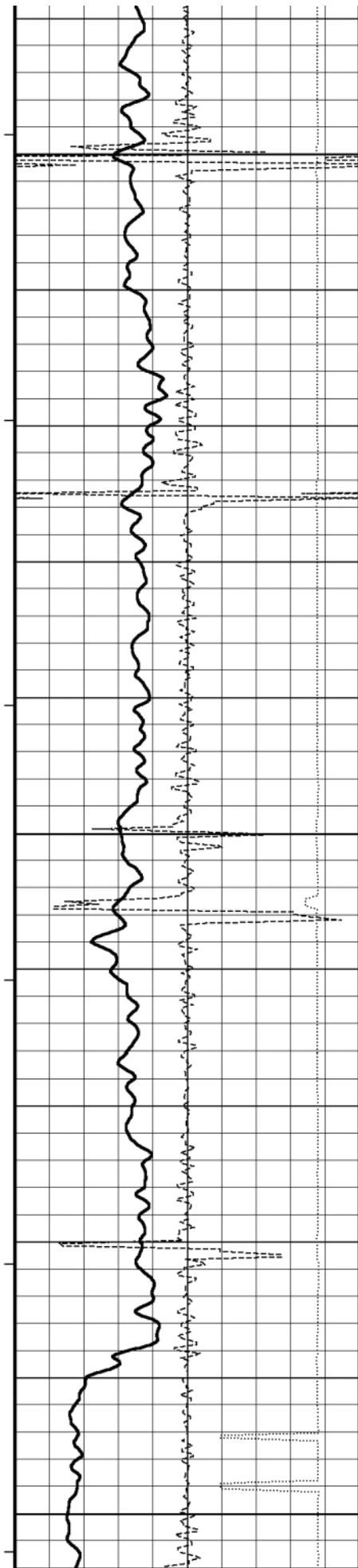
920

930

44°

940





950

960

45°

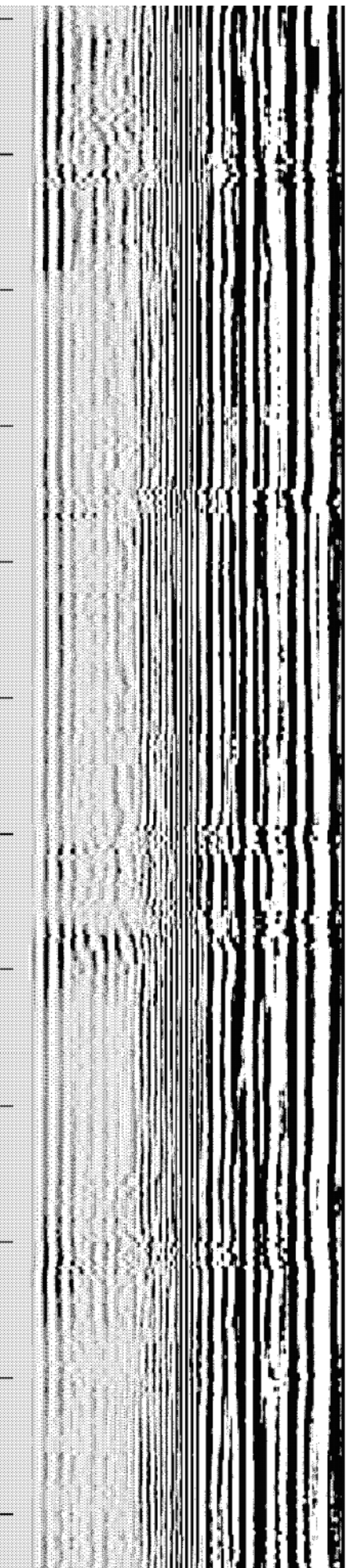
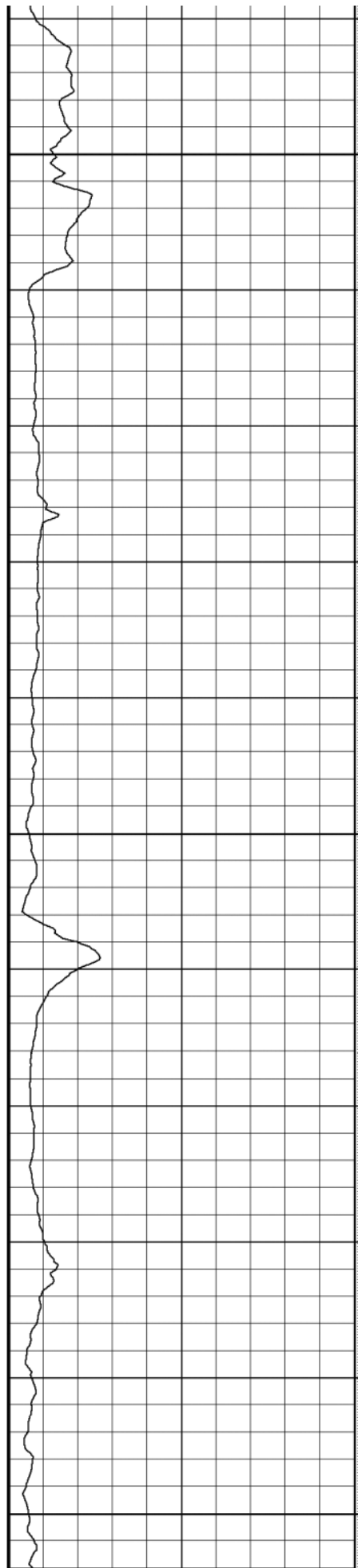
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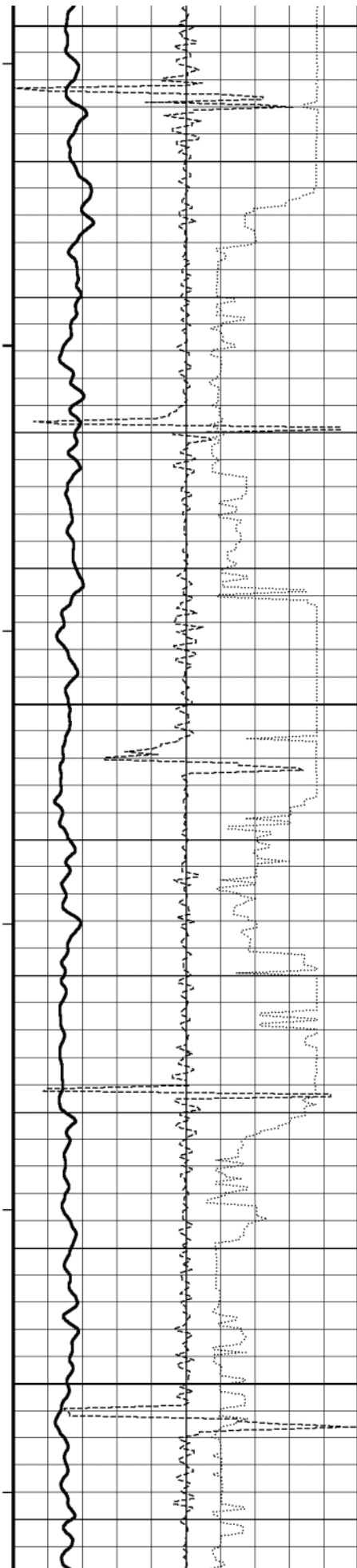
980

46°

990

1000





1000

1010

46°

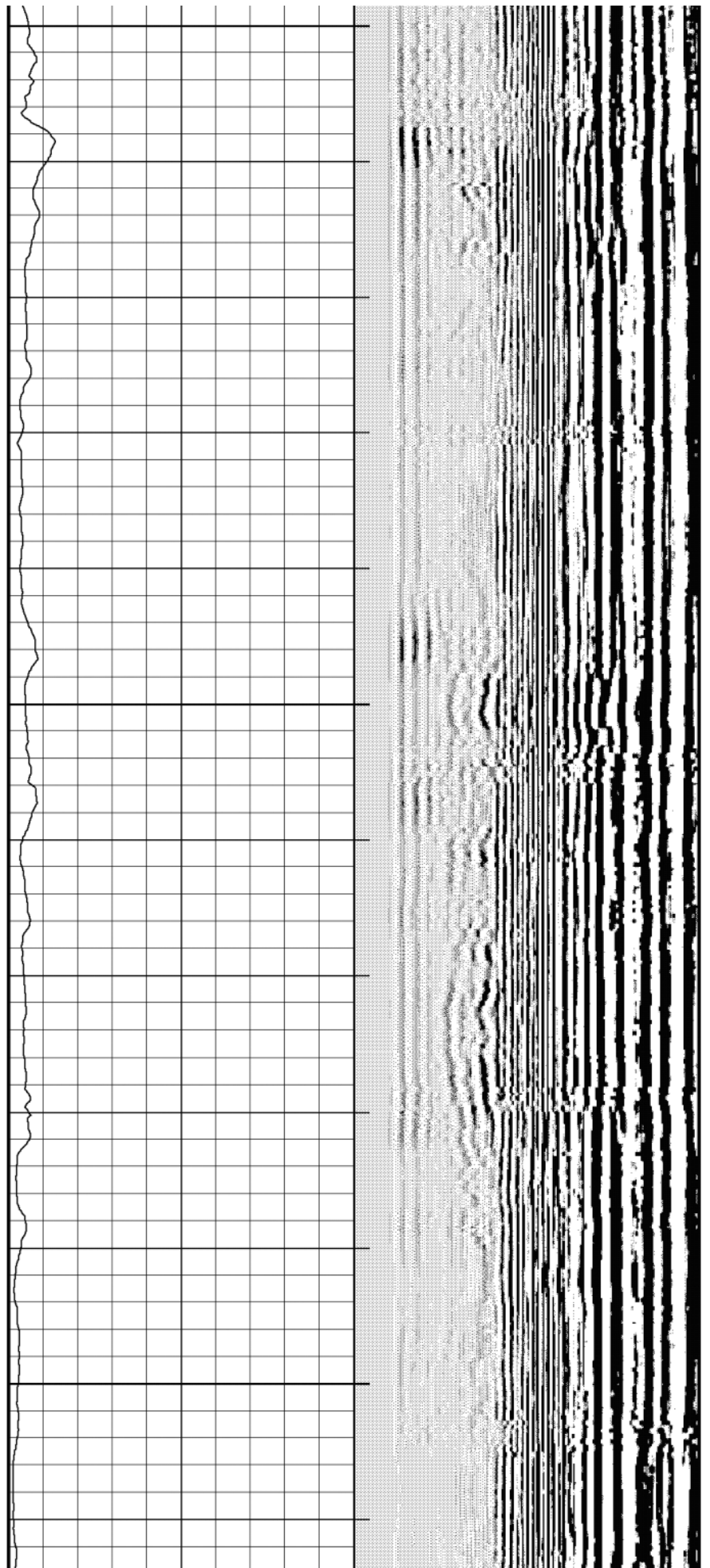
1020

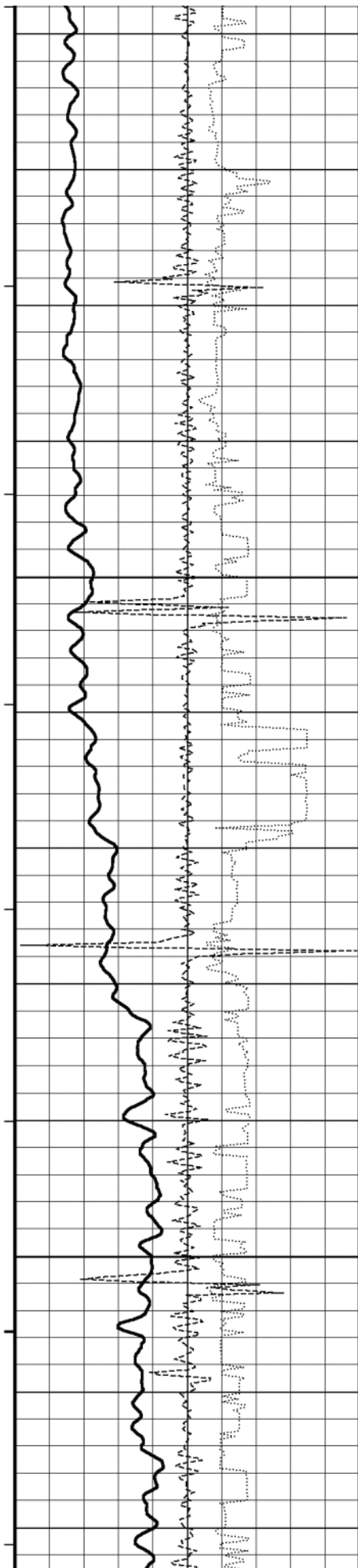
1030

47°

1040

1050





1060

48°

1070

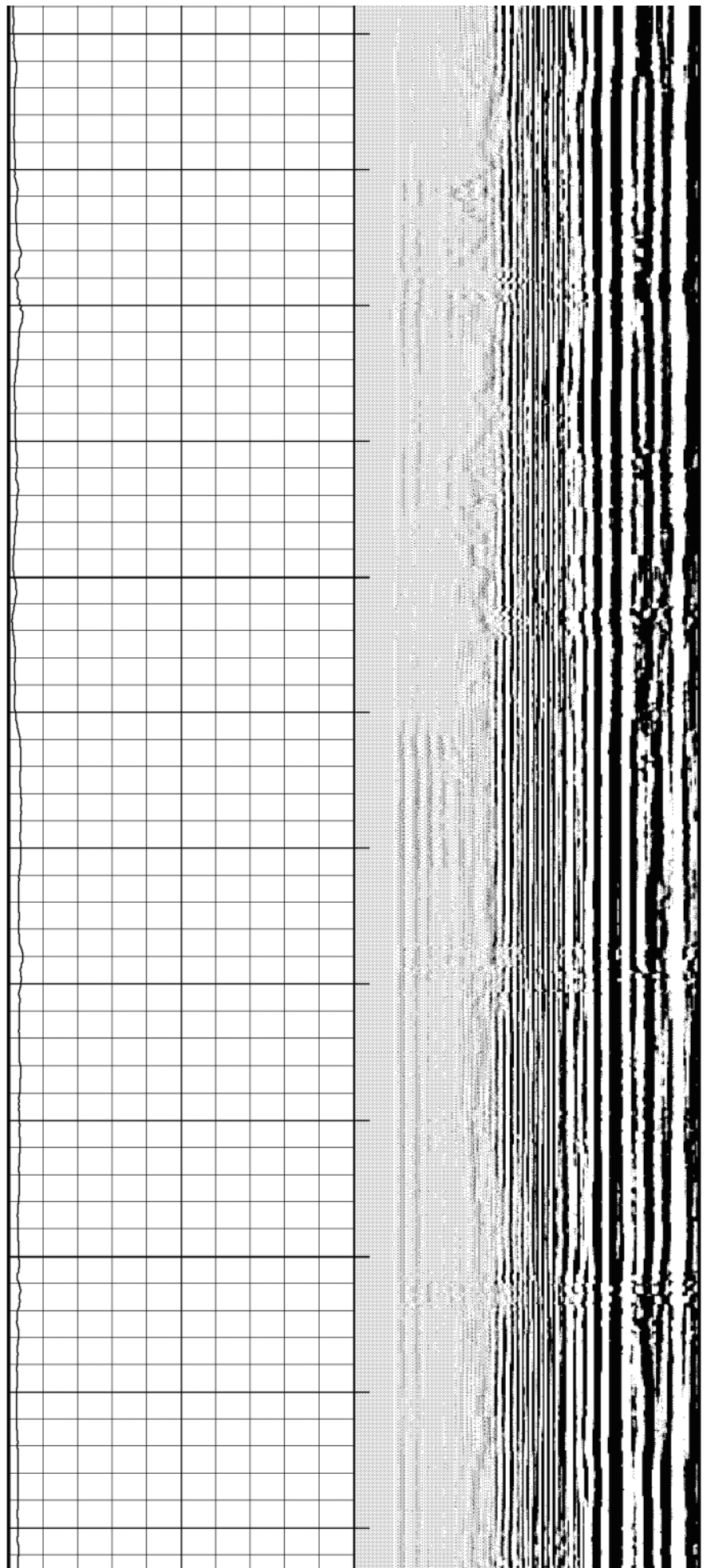
1080

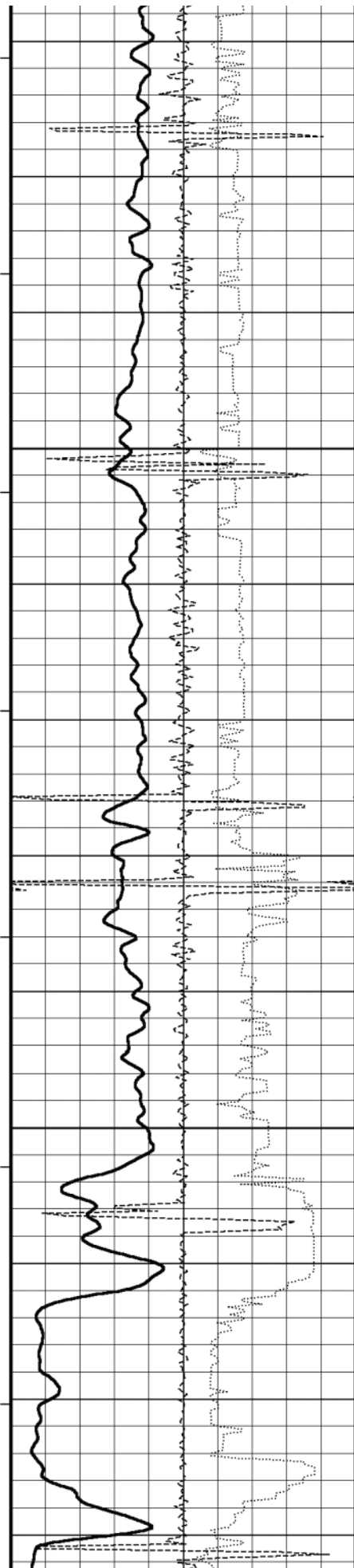
48°

1090

1100

1110





1110

49°

1120

1130

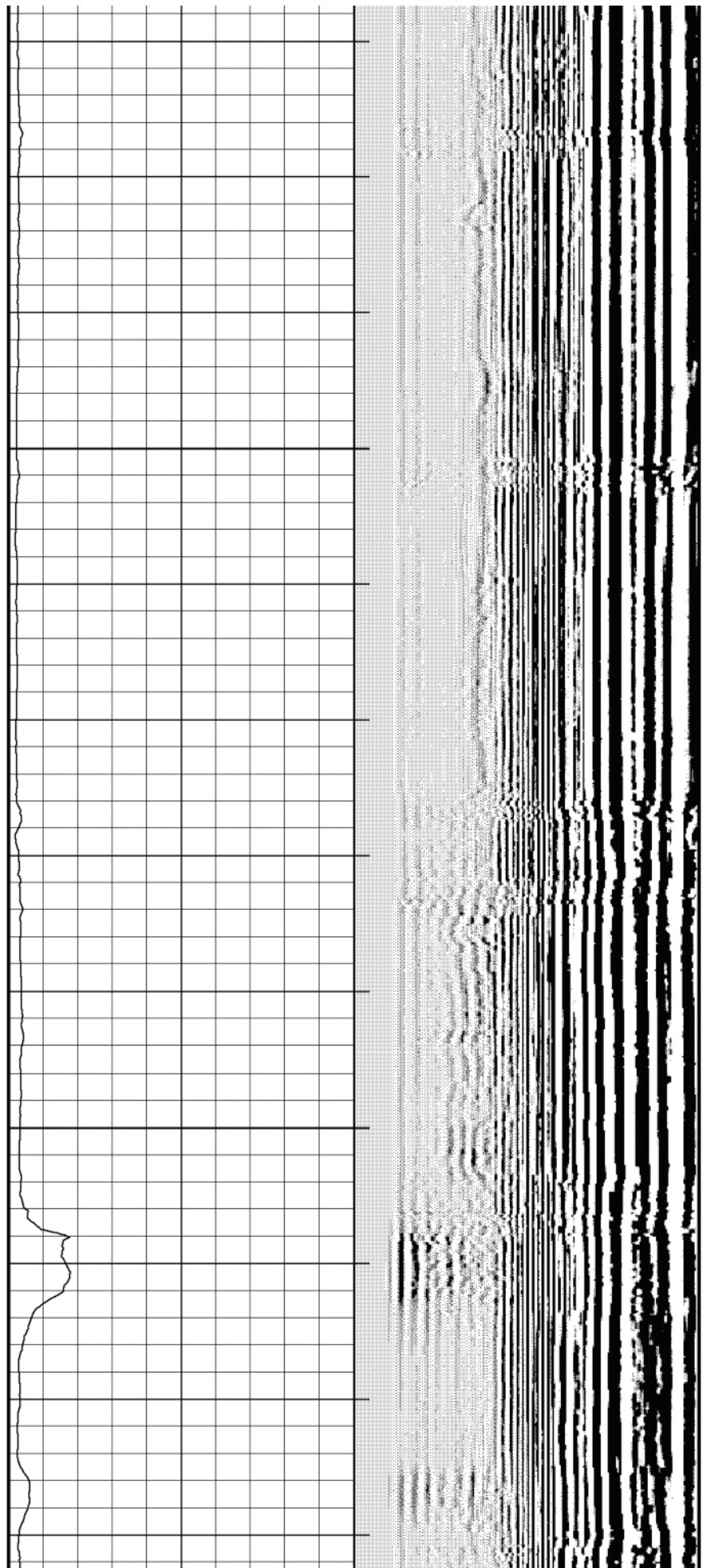
50°

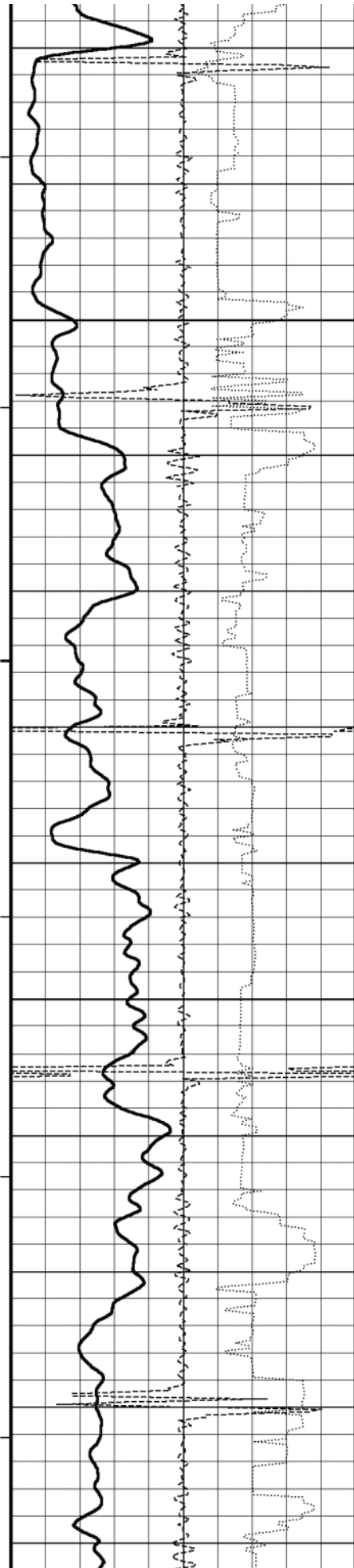
1140

1150

1160

51°





1170

1180

52°

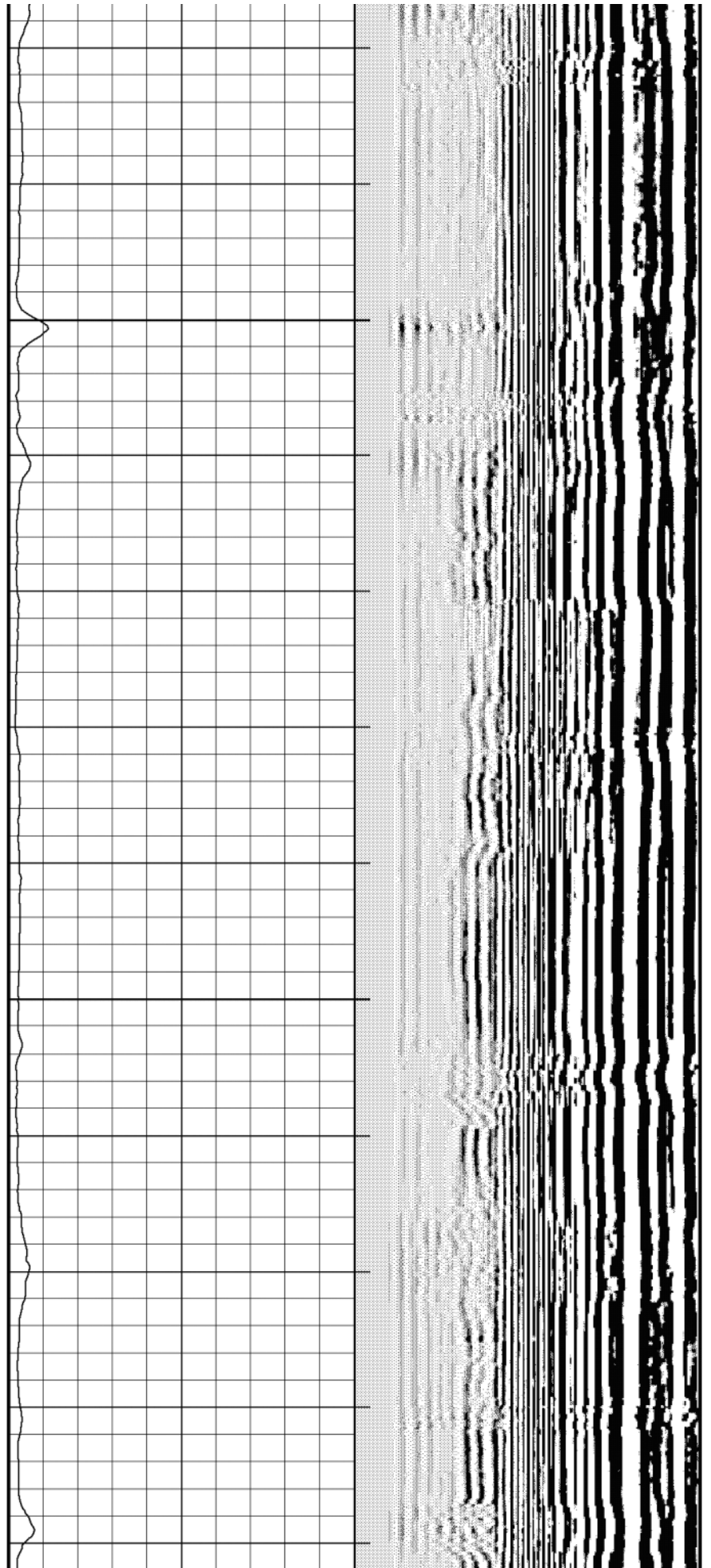
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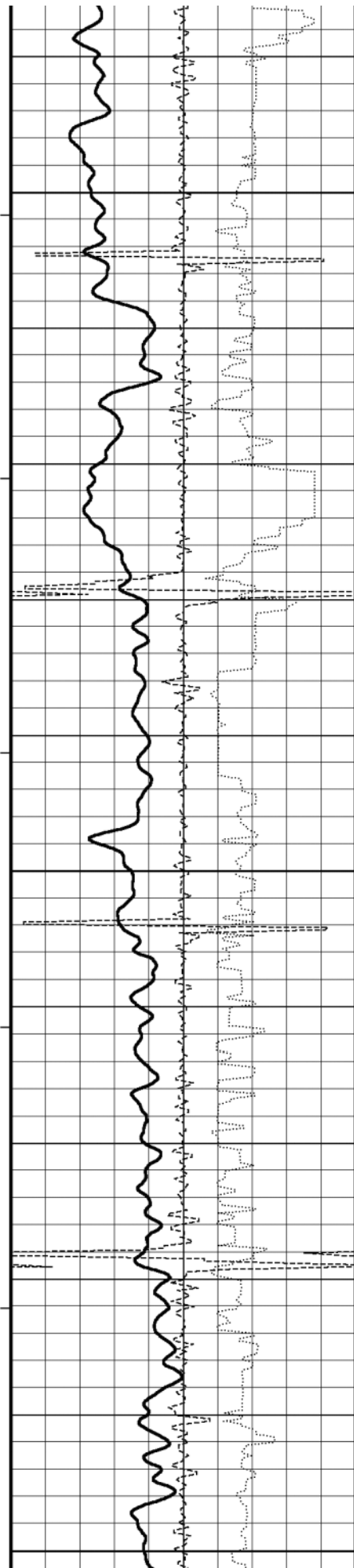
1200

1210

52°

1220





1220

1230

53°

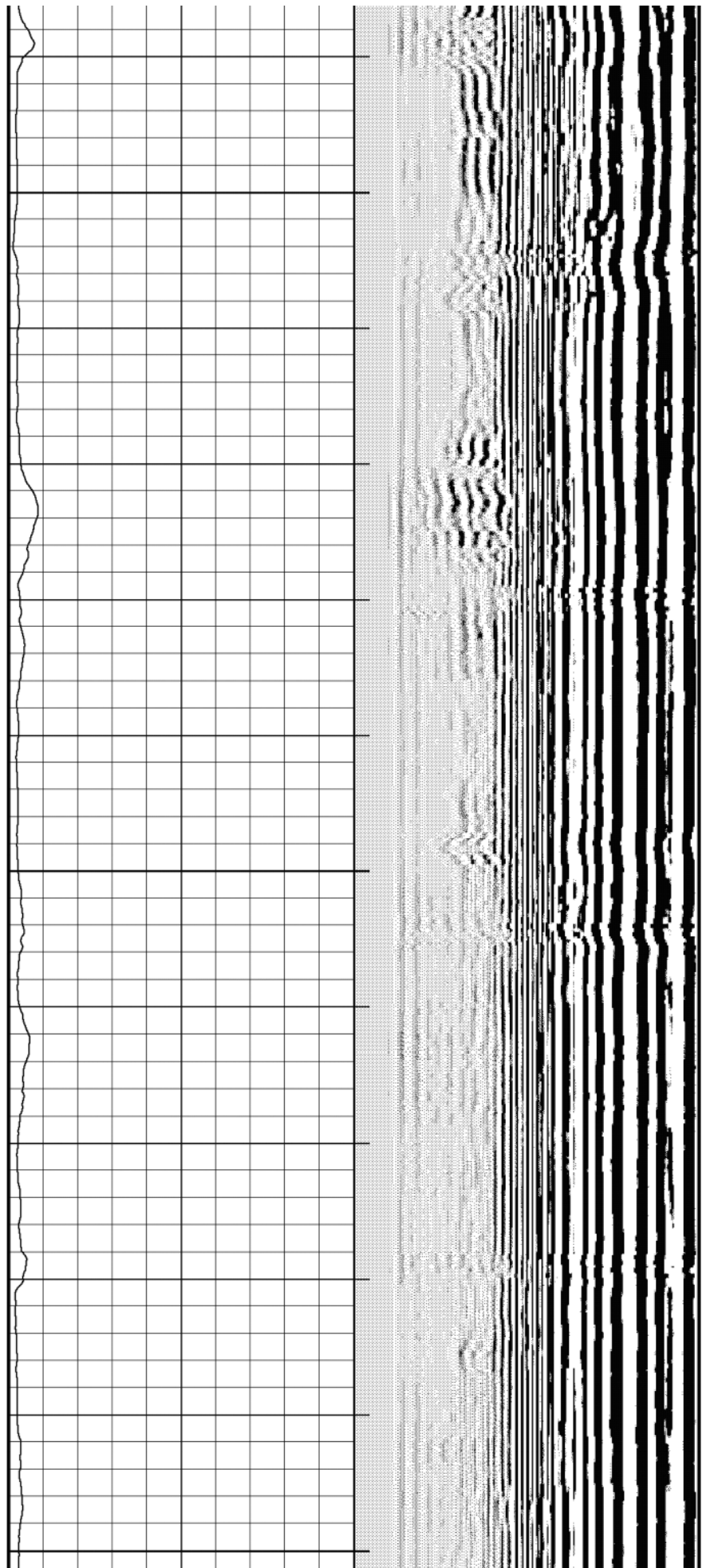
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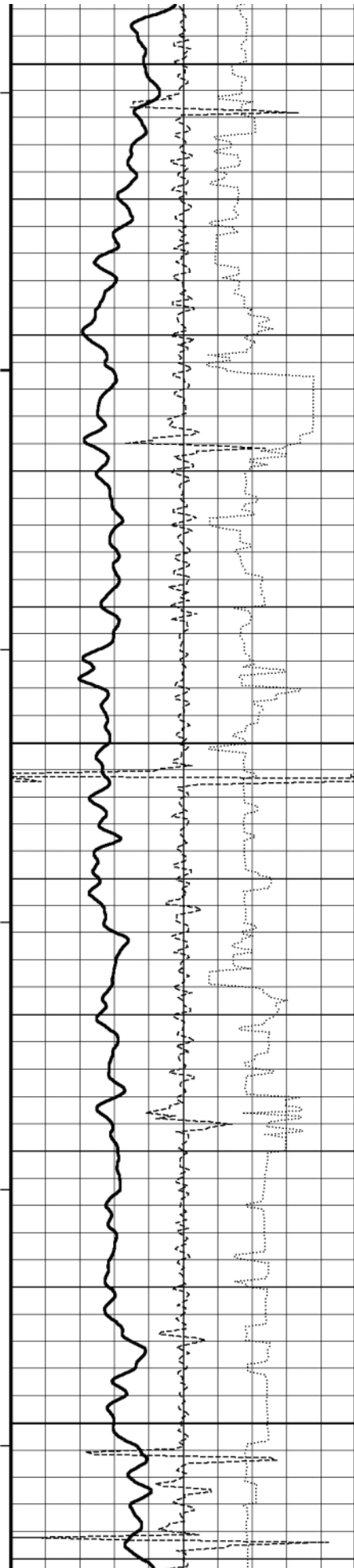
1250

1260

54°

1270





1280

55°

1290

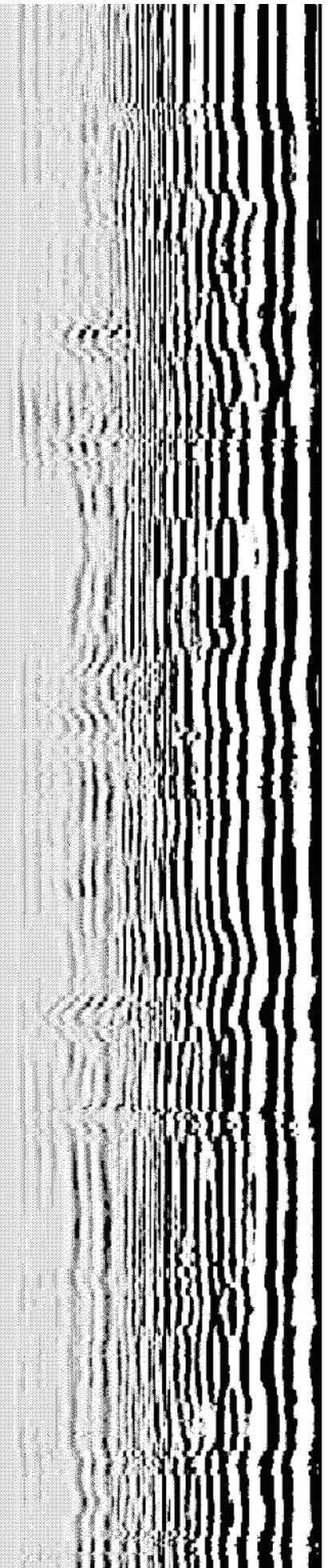
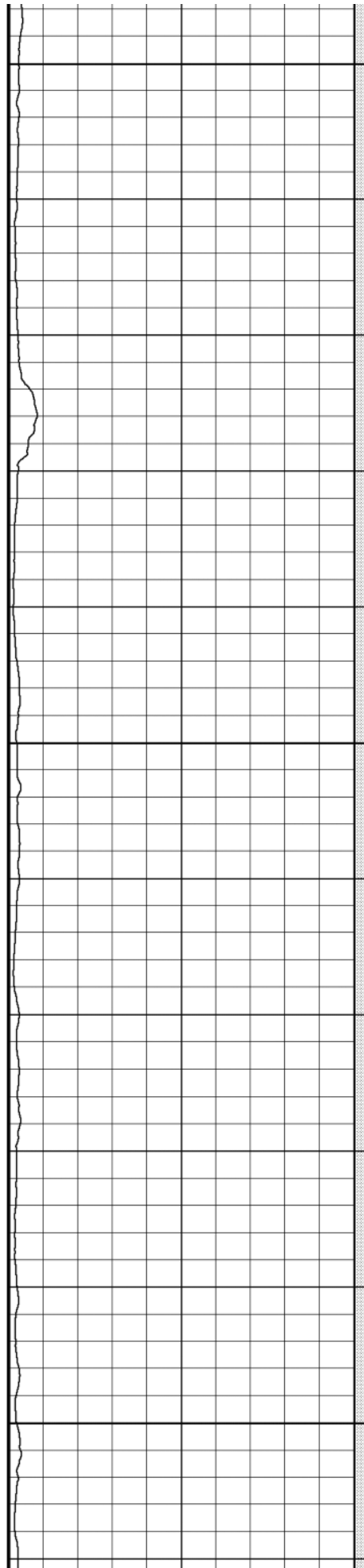
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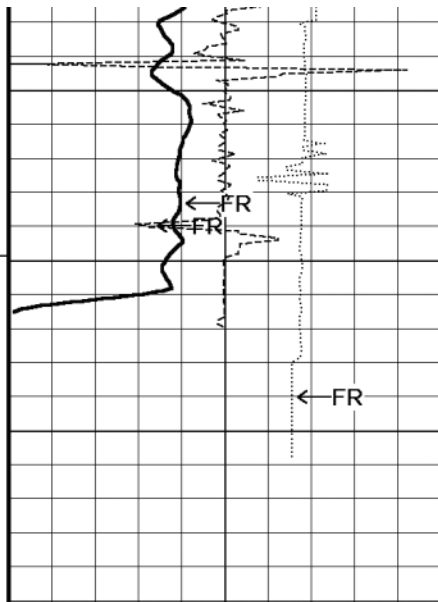
1310

56°

1320

1330





1330

1340

DSC
in
Metres

Timing Marks every 60.0 sec

Gamma Ray

API

0 100 200

200 300 400

Borehole
Temp in
deg C

Casing Collar Locator

-3000 0 3000

3' Transit Time

microseconds

1100 600 100

Replay
Scale
1:200

Depth Based Data - Maximum Sampling Increment 10.0cm

Filename: C:\data\seamer 1\MAIN LOG A.dta

System Configuration Dates: Logged 21-JUN-2002: Processed 21-JUN-2002: Plotted 20-JUN-2002:

Plotted on 11-FEB-2003 14:56

Recorded on 10-JAN-2003 15:33

MAIN LOG A

REPEAT SECTION

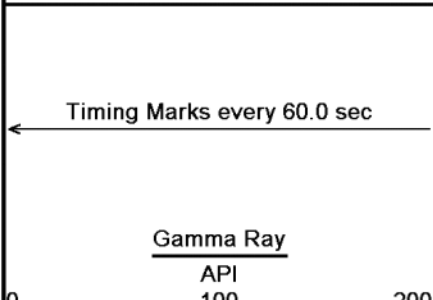
Depth Based Data - Maximum Sampling Increment 10.0cm

Filename: C:\data\seamer 1\REPEAT SECTION.dta

System Configuration Dates: Logged 21-JUN-2002: Processed 21-JUN-2002: Plotted 20-JUN-2002:

Plotted on 11-FEB-2003 14:56

Recorded on 10-JAN-2003 15:33



DSC
in
Metres

Timing Marks every 60.0 sec

Gamma Ray

API

0 100 200

200 300 400

Borehole
Temp in
deg C

Casing Collar Locator

-3000 0 3000

3' Transit Time

microseconds

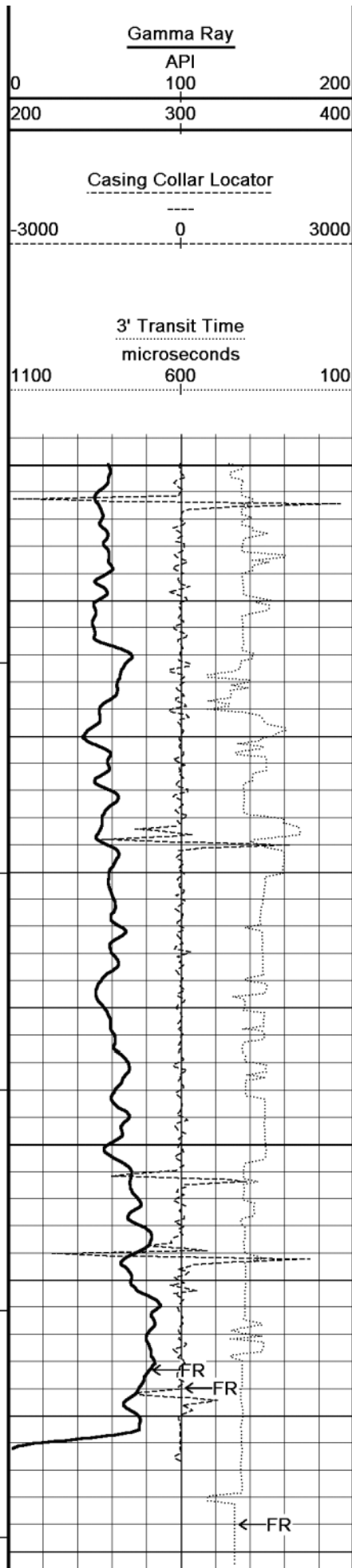
1100 600 100

Replay
Scale
1:200

Reeves

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Page 17 of 22



Borehole
Temp in
deg C

Replay
Scale
1:200

1300

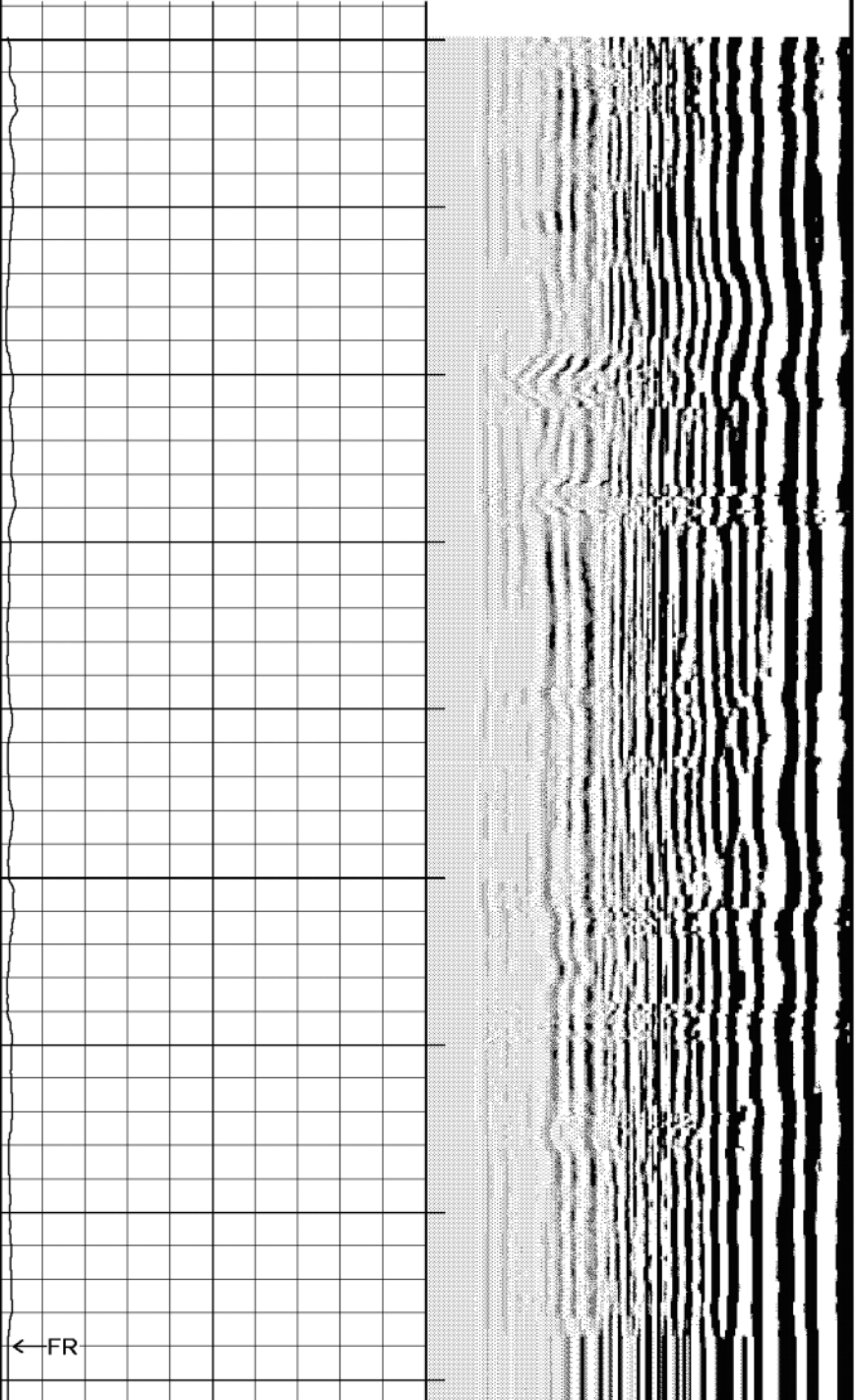
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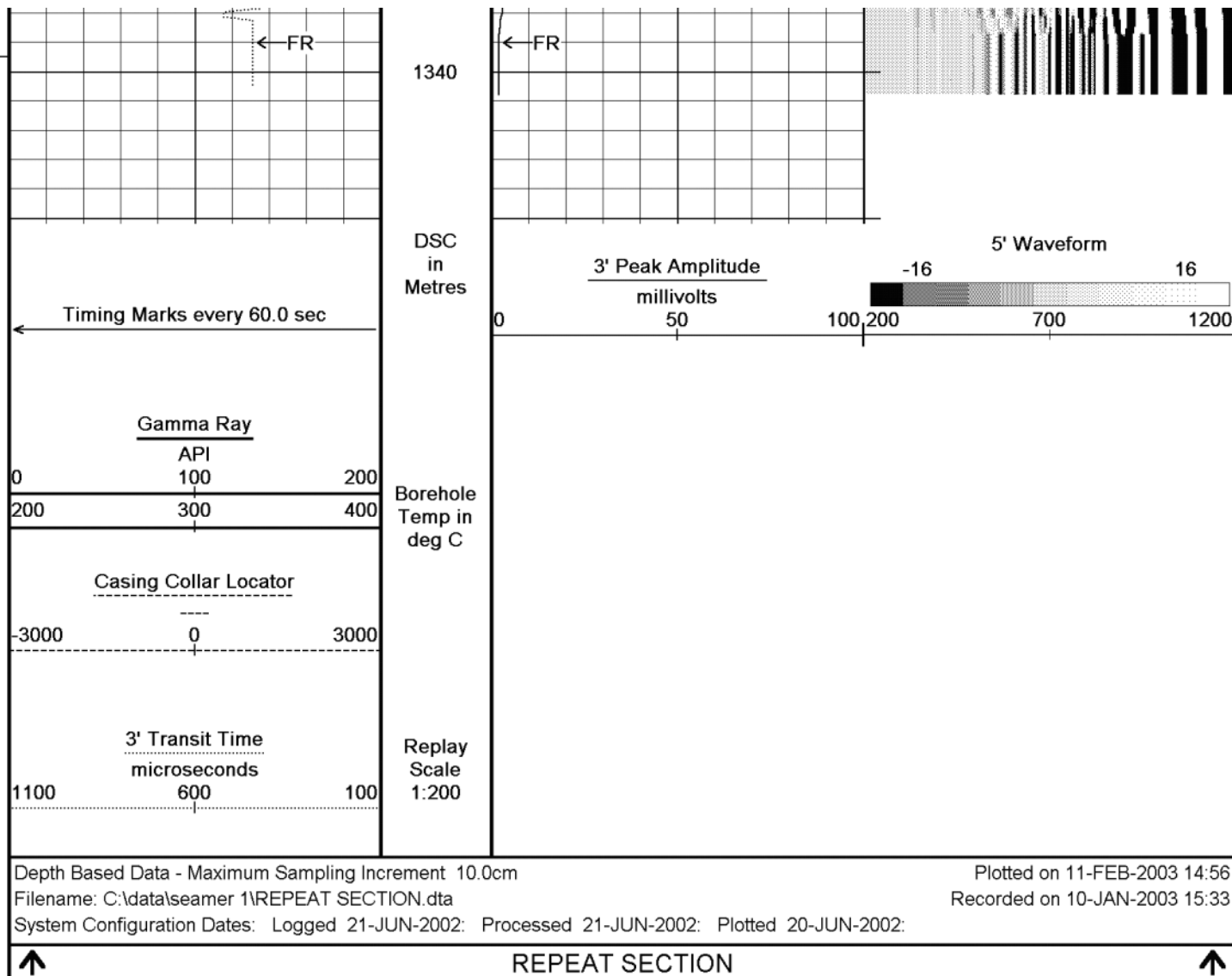
56°

1320

1330

1340





BEFORE SURVEY CALIBRATION

C:\data\seamer 1\MAIN LOG A.dta

General Constants All 000

General Parameters		
Mud Resistivity	0.10	ohm-metres
Mud Resistivity Temperature	25.00	degrees C
Water Level	0.00	metres
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume Parameters		
HVOL Caliper 1	Bit Size	
HVOL Caliper 2	None	
Annular Volume Diameter	4.50	inches

Rwa Parameters		
Porosity used	N/A	
Resistivity used	N/A	
RWA Constant A	N/A	
RWA Constant M	N/A	

Gamma Calibration MCG 043

Field Calibration on 9-FEB-2003,07:05

	Measured	Calibrated (API)
Background	27	17
Calibrator (Gross)	1430	926
Calibrator (Net)	1404	909

Gamma Constants MCG 043

Background	2'	1'
Calibrator (Gross)	1430	926
Calibrator (Net)	1404	909
Gamma Constants MCG 043		
Gamma Calibrator Number	060	
Mud Density	1.06	gm/cc
Caliper Source for Processing	Bit Size	
Tool Position	Centred	
Concentration of KCl	0.00	kppm
High Resolution Temperature Calibration MCG 043		
	Measured	Calibrated(Deg C)
Lower	20.50	20.00
Upper	51.00	50.00
High Resolution Temperature Constants MCG 043		
Pre-filter Length	11	
Sonic Constants MSS 049		
Maximum Boundary Contrast	100.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	0.00	micro-sec
MX3FT	1500.00	micro-sec
Fixed Gate Parameters		
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
Down Hole Fixed Gate Parameters		
Gate Start	0.00	micro-sec
Gate Width	0.00	micro-sec
Full Waveform Parameters		
Use derived TR for 3' Waveform	N/A	
Use derived TR for 4' Waveform	N/A	
Use derived TR for 5' Waveform	N/A	
Use derived TR for 6' Waveform	N/A	
3' Waveform Discriminator Level	N/A	mV
4' Waveform Discriminator Level	N/A	mV
5' Waveform Discriminator Level	N/A	mV
6' Waveform Discriminator Level	N/A	mV
3' Waveform Filter	N/A	
4' Waveform Filter	N/A	
5' Waveform Filter	N/A	
6' Waveform Filter	N/A	

DOWNHOLE EQUIPMENT
All measurements relative to tool zero.

Compact Battery Sub.
MBS 15 Length: 2.39 m Weight: 44.09 lb



Compact Gamma
MCG 43 Length: 2.65 m Weight: 63.93 lb

Compact Memory Sub.
MMS 14 Length: 0.95 m Weight: 22.05 lb

Compact Inline Standoff B
MIS 31 Length: 0.65 m Weight: 15.43 lb

Compact Sonic
MSS 49 Length: 3.82 m Weight: 72.75 lb



5.80 m GRGC - Gamma Ray
5.14 m CCLG - Casing Collar Locator
4.92 m CGXT - MCG External Temperature

0.00 m PK21 - 3' Peak Amplitude
0.00 m WF22 - 5' Waveform
0.00 m TR21 - 3' Transit Time
Tool Zero (1.62m from bottom)

Compact Inline Standoff B
MIS 30 Length: 0.65 m

Weight: 15.43 lb

Pressure Bung + Hole Finder
HFS 3 Length: 0.28 m

Weight: 6.61 lb

Total Length: 11.39 m

Total Weight: 240.30 lb



COMPANY	SANTOS LTD.
WELL	SEAMER 1
FIELD	EXPLORATION
PROVINCE/COUNTY	VICTORIA
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	63.70	metres	First Reading	1339.00	metres
Elevation Drill Floor	63.70	metres	Depth Driller	1343.00	metres
Elevation Ground Level	58.51	metres	Depth Logger	1340.60	metres

Reeves

CEMENT BOND LOG

CML

1:200