

Schlumberger Technology Corporation

200 Gillingham Lane
Sugar Land, TX 77478

Schlumberger

RECEIVED

JUL 21 2008

DNMS

July 18, 2008

United States Nuclear Regulatory Commission
Region IV – Materials Inspection Branch
611 Ryan Plaza Drive, Suite 400
Arlington, Texas 76011

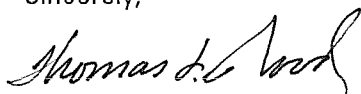
RE: Source Abandonment for Speed Mining: LRPB-21

Dear Sir or Madam:

This letter is to confirm the abandonment of irretrievable sources in a well in accordance with Part 39, Section 39.77(d). Information for this abandonment is attached.

If you have any questions or require additional information, please contact me at 281-285-7460.

Sincerely,



Thomas S. Wood
Deputy Radiation Safety Officer
Schlumberger Technology Corporation

Source Abandonment – Speed Mining
Well: LRPB-21

Date of Occurrence: 06/23/2008

Source #1

Identification: 592 GBq, Am241Be, Neutron Source, Serial # G4042
Manufacturer: Gammatron, Inc.
Model: NSR-L
Depth: 1,713'

Source #2

Identification: 63 Gbq, Cs 137, Density Source, Serial # A2435
Manufacturer: AEA / Amersham
Model: CDC.CY3
Depth: 1,723'

Well Identification: Company: Speed Mining
Well: LRPB-21
API Number: 47-005-02139
County: Boone
State: West Virginia

Seal Results: 276' of Class A cement (0.4% D65, 0.4%D167 and D46) with Red Oxide Dye spotted on top of the tool from ~1,701' to 1,425'. An upside-down Tri-Cone drill bit was placed on top of the cement plug at 1,425' and will serve as a mechanical deflection device.

Recovery Attempts: Multiple attempts from 04/03/08 to 06/22/08

Depth of Well: 1,725'

Identification: Plaque as required by Part 39 ordered and will be attached to the well.

Reports: No other agency will receive a copy of this report.

Initial Telephone Contact: Mr. James Thompson, NRC Region IV on 05/01/08 @ 10:00 CDT.

RADIATION FISHING & ABANDONMENT REPORT

<input type="checkbox"/> Offshore (OCS Waters)	<input checked="" type="checkbox"/> Land or State Lease Waters
Date <u>4/3/2008</u>	Time <u>10:30</u>
Company Name (Full Name) <u>Speed Mining</u>	
Well Name or (OCS-G No. or State Lease No.) <u>LRPB-21</u>	
Offshore State of <u>N/A</u>	Rig Name <u>N/A</u>
API Number (If Available or CLSD) <u>47-005-02139</u>	
Location of Lease <u>LAT: 38° 07'30" 7843W LONG" 81° 32'30" 15083S</u>	
County or Parish <u>Boone County</u>	State <u>West Virginia</u>
District <u>Beckley, WV</u>	Sales Engr <u>Earl Dickman</u>
TD <u>1725'</u>	Hole Size <u>10.25"</u>
Casing Depth <u>1,221'</u>	Casing Size <u>10.25"</u>
Depth of Fish (Top) <u>1,701'</u>	(Bottom) <u>1,725'</u>
Source Type (1) <u>GSR-Z</u>	Source Type (2) <u>NSR-L</u>
Source Activity (1) <u>63 GBq</u>	Source Activity (2) <u>592 GBq</u>
Serial No. (1) <u>A2435</u>	Serial No. (2) <u>G4042</u>
Isotope (1) <u>Cs137</u>	Isotope (2) <u>Am241Be</u>
Depth (1) <u>1,723'</u>	Depth (2) <u>1,713'</u>
Leak Test Date (1) <u>2/14/08</u>	Leak Test Date (2) <u>2/14/08</u>
Leak Test Results (1) <u>.0884 Bq</u>	Leak Test Results (2) <u>.175 Bq</u>
Tool String (Head to Bottom) <u>ITGN-A – ILDT-A - BNS</u>	
Date and Time Stuck <u>3/35/08 at 12:30</u>	
Date and Time Cement Pumped <u>6/23/08</u>	
Hole Conditions <u>See Attached Log</u>	

Fishing Attempts Multiple attempts from 25-Mar-08 to 25-Jun-08. The amount of debris in the hole was preventing the overshot from properly engaging the tool.

Comments (what happened to get stuck?, etc.): While logging up the OP software froze at ~ 874 feet. While the computer rebooted the engineer decided to run back down ~ 80 feet to be ready when the computer was back up. The tool was at ~ 794 feet when the engineer started to spool the tool back down with the caliper arm still extended. The arm got caught up in the open hole while ~ 80 feet of line was spooled. When the engineer retracted the arm, not noticing or realizing that their was slack in the line, the tool free fell ~ 80 feet and disconnected due to the weight.

NOTE: Regulatory agencies should be contacted ONLY by the Schlumberger Technology Corporation (STC) Radiation Safety Officer or, if unavailable, his designee.

Notified: ☒ NRC or ☐ State of : NRC Region IV

Name:	James Thompson	Name:	
Date:	01-Jun-08	Date:	
Time:	10:00 CDT	Time:	

ABANDONMENT

The following is a summary of NRC and/or Agreement States regulations that **must** be followed when abandoning an irretrievable well logging source(s). The specific regulations are found in 10 CFR 39.15 and equivalent regulations in Agreement States.

An **irretrievable well logging source** means any licensed radioactive sealed source that becomes lodged in a well and cannot be retrieved after reasonable efforts have been made to recover the source(s).

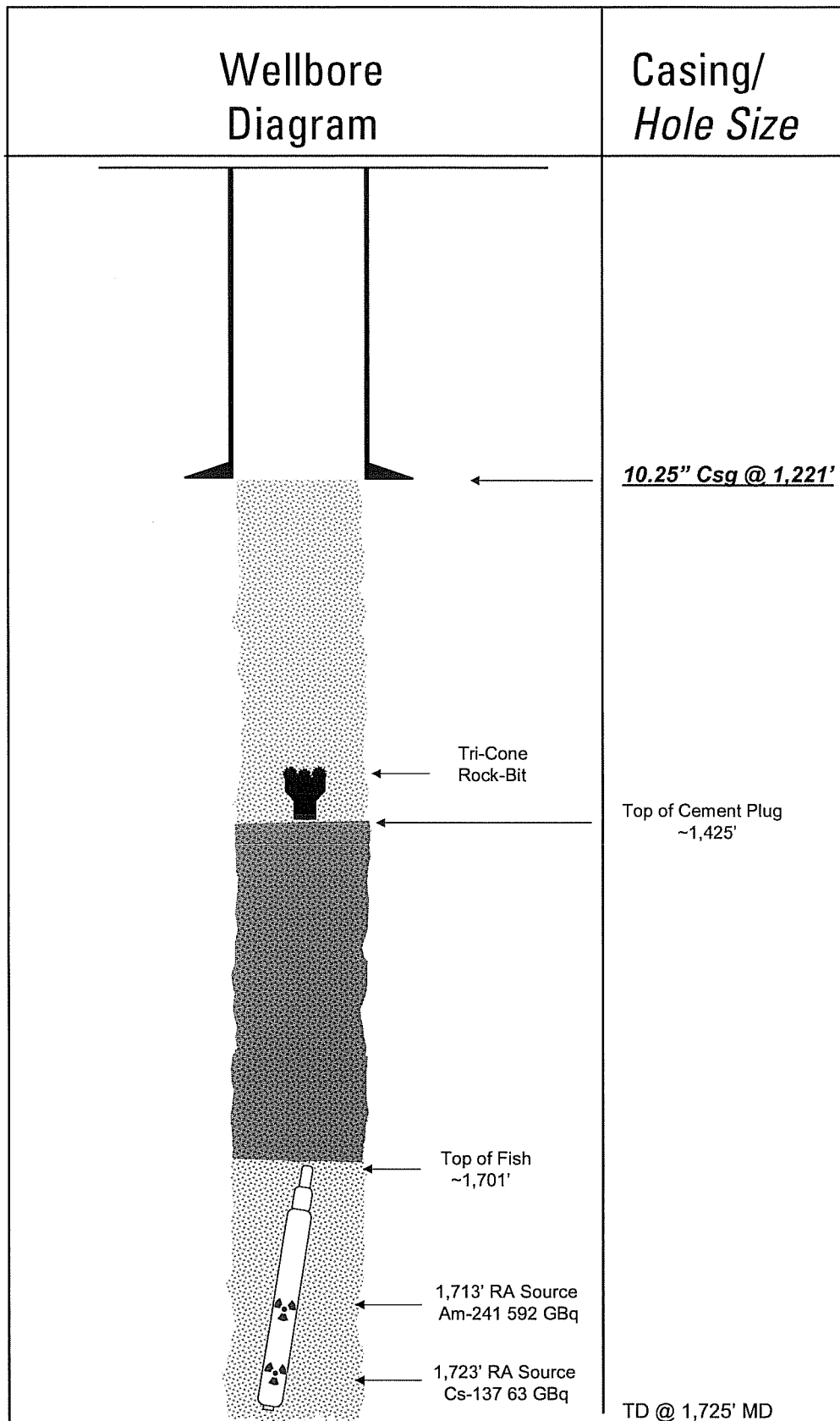
1. If a well logging source is irretrievable, the following requirements must be implemented.
 - a) The source(s) must be immobilized and sealed in place with a cement plug. The cement has to be dyed red in Texas as a condition of the Texas Railroad Commission (others occasionally).
 - b) A mechanical deflection device must be set at some point in the well above the cement plug to prevent inadvertent intrusion on the source, unless the cement plug and source(s) are not accessible to any subsequent drilling operations. The mechanical device can be devices such as a whipstock, old drill bit, etc. For LWD, drillpipe and/or collars left on top of the BHA usually are approved as a deflection device.
 - c) A permanent identification plaque, (supplied by your QHSE Manager) made of stainless steel (or brass, bronze and monel), must be mounted at the surface of the well unless the mounting of the plaque is not practical (i.e. subsea completion).
2. The STC RSO (or his designee) will notify the NRC or Agreement State of the abandonment plan developed by/with the client. The NRC or Agreement State must approve the abandonment plan prior to implementation. The federal and/or state oil and gas well permitting agency normally will also require that they approve the abandonment plan. The contact with the well permitting agency is the responsibility of the well owner/client but we should advise him/her of that fact as a courtesy.
3. If any changes must be made to the abandonment plan submitted to the NRC or Agreement State, the STC RSO must be informed so that he/she can get approval of the modification, as appropriate. The actual abandonment must not begin until any abandonment plan or modification to that plan is approved by the appropriate agency.
4. The STC Radiation Safety Officer must file a written report with the NRC or Agreement State within 30 days after the abandonment. The facility management should file a written report within 10 days to the STC Radiation Safety Officer via the Health, Safety and Environment Manager. The facility report should cover the final abandonment details such as:
 - a) Actual date of abandonment.
 - b) Any changes in the data sent with the approved abandonment plan.
 - c) A new well diagram if different from the that submitted with the approved abandonment plan.
 - d) Any information pertinent to the abandonment that the STC RSO may not have for his/her final report.
 - e) If all data sent to the STC RSO is still applicable for the final report, an e-mail or fax is to be sent to the STC RSO confirming that fact so that he/she can be ensured that the data sent to the appropriate agency is totally accurate. Most facilities send a completely new report since many these documents often are incomplete or are poor quality fax reproductions.

If there are any questions regarding these procedures, discuss them with your Operations Manager.

FACILITY MANAGEMENT MUST ENSURE THAT THE FINAL ABANDONMENT REPORT IS SUBMITTED TO THE STC RADIATION SAFETY OFFICER.

Speed Mining

LRPB-21



NOT TO SCALE



Monitoring Services

P.O. BOX 266677 . HOUSTON, TEXAS 77207-6677 . AREA CODE 713-478-6820 . FAX 281-532-0929

SEALED SOURCE LEAK TEST CERTIFICATE

RSO
SCHLUMBERGER 6430
260 INDUSTRIAL DR.

CUSTOMER #: 2258

BECKLEY

WV
25801

SOURCE #: 36827

ACCOUNT #: 1654

RADIONUCLIDE: AM241BE SOURCE CODE: NSRL

ACTIVITY: 16 CI SERIAL NO: 4042

WIPE DATE: 2/14/2008

EFFICIENCY: 1.32

GROSS CPM: 22 BKG CPM: 15 NET CPM: 7

NET CPM
EFF X 2.22×10^6 DPM/ μ CI = MICROCURIE

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0×10^{-3}) MICROCURIE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY WAS: 2.39×10^{-6} MICROCURIE

8.84×10^{-2} Bq

ASSAY NO.: 2/20/2008 44 DATE: 2/21/2008

ASSAYED BY:



Monitoring Services

P.O. BOX 266677 · HOUSTON, TEXAS 77207-6677 · AREA CODE 713-478-6820 · FAX 281-532-0929

SEALED SOURCE LEAK TEST CERTIFICATE

RSO
SCHLUMBERGER 6430
260 INDUSTRIAL DR.

CUSTOMER #: 2258

BECKLEY

WV
25801

SOURCE #: 36828

ACCOUNT #: 1654

RADIONUCLIDE: CS-137 SOURCE CODE: GSRZ

ACTIVITY: 1.7 CI SERIAL NO: 2435

WIPE DATE: 2/14/2008

EFFICIENCY: 0.95

GROSS CPM: 25 BKG CPM: 15 NET CPM: 10

NET CPM
EFF X 2.22×10^6 DPM/ μ CI = MICROCURIE

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0×10^{-3}) MICROCURIE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY WAS: 4.74×10^{-6} MICROCURIE
 1.75×10^{-1} Bq

ASSAY NO.: 2/20/2008 43 DATE: 2/21/2008

ASSAYED BY:

Schlumberger Technology Corporation
Radiation Safety & Compliance

200 Gillingham Lane, MD 7
Sugar Land, Texas 77478
Tel 281-285-7460
Fax 281-285-8526

Schlumberger

Fax

Date: July 18, 2008

To Ernie Jilek

Fax : 985-727-2165

From Tom Wood

Tel: 281-285-7460

Fax: 281-285-8526

Subject Abandonment Plaque

Pages 2 (including cover)

Ernie,

Request for abandonment plaque for **Speed Mining**, well information follows.

Regards,


Tom

This transmission is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged and confidential. If you are not the intended recipient, you are hereby notified that any disclosure, distribution or copying of this information is strictly prohibited. If you have received this transmission in error, please notify us immediately by telephone and return the original documents to us at the address above via the United States Postal Services.

Schlumberger Technology Corporation
Radiation Safety & Compliance

200 Gillingham Lane, MD 7
Sugar Land, Texas 77478
Tel 281-285-7460
Fax 281-285-8526

Schlumberger

Graphics N' Metal
1200 Clausel Street
Mandenville, LA. 70448
(504) 669-6082
(985) 727-2165 (Fax)

July 18, 2008

Attn: Ernie Jilek,

Please construct the standard abandonment plaque with the following information:

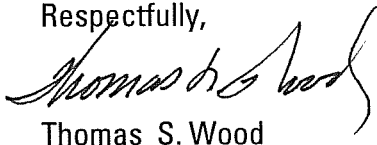
Company: Speed Mining
Well Name: LRPB-21
County: Boone
State: West Virginia
API#: 47-005-02139
Date of Abandonment: June 23, 2008
Well Depth: 1,725'
Plug Back: 1,425'
Top of Fish: 1,701'

Sources Abandoned: 592 GBq, (16 Ci), Am-241 Be, Neutron Source @ 1,713' MD
63 GBq, (1.7 Ci), Cs-137, Density Source @ 1,723' MD

Special Instructions: DO NOT RE-ENTER THIS WELL BEFORE CONTACTING
REGION IV OF THE NUCLEAR REGULATORY COMMISSION
OR SCHLUMBERGER TECHNOLOGY CORPORATION

Please forward to me the completed plaque and invoice.

Respectfully,



Thomas S. Wood

MEMORY TRANSMISSION REPORT

PAGE : 001
TIME : JUL-18-08 11:30AM
TEL NUMBER1: +281-285-8526
TEL NUMBER2: +
NAME : Schlumberger Technology Corp.

FILE NUMBER : 832
DATE : JUL-18 11:29AM
TO : 919857272165
DOCUMENT PAGES : 002
START TIME : JUL-18 11:29AM
END TIME : JUL-18 11:30AM
SENT PAGES : 002
STATUS : OK

FILE NUMBER : 832

*** SUCCESSFUL TX NOTICE ***

Schlumberger Technology Corporation
Radiation Safety & Compliance

200 Gillingham Lane, MD 7
Sugar Land, Texas 77478
Tel 281-285-7460
Fax 281-285-8526

Schlumberger

Fax

To Ernie Jilek

From Tom Wood

Subject Abandonment Plaque

Date: July 18, 2008

Fax : 985-727-2165

Tel: 281-285-7460

Fax: 281-285-8526

Pages 2 (Including cover)

Ernie,

Request for abandonment plaque for **Speed Mining**, well information follows.

Regards,


Tom

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Company: SPEED MINING

Well: LRPB 21

Field: SHERMAN

County: BOONE

State: WEST VIRGINIA

COAL LOG
LITHO DENSITY / COMPENSATED NEUTRON
CALIPER / GAMMA RAYCounty: BOONE
Field: SHERMAN
Location: LAT: 38° 07' 30" 7843 W
Well: LRPB 21
Company: SPEED MINING

LOCATION

LAT: 38° 07' 30" 7843 W
LONG: 81° 32' 30" 15083 S
Elev.: K.B. 0 ft
G.L. 1672 ft
D.F. 0 ft
Permanent Datum: GROUND LEVEL
Log Measured From: FLANGE 8" ABOVE GL
Drilling Measured From: GROUND LEVELAPI Serial No.
47-005-02139PDistrict
SHERMANWatershed:
BIG COAL RIVERQuadrangle:
SYLVESTER

Logging Date 25-Mar-2008

Run Number 1

Depth Driller 1352 ft

Schlumberger Depth 1321 ft

Bottom Log Interval 1318 ft

Top Log Interval 880 ft

Casing Fluid Type AIR AND WATER

Salinity

Density 9 lbm/gal

Fluid Level 1252 ft

BIT/CASING/TUBING STRING

Bit Size 9.500 in

From 0 ft

To 1321 ft

Casing/Tubing Size 0.000 in

Weight 0 lbm/ft

Grade

From 0 ft

To 0 ft

Maximum Recorded Temperatures 0 degF

Logger On Bottom 25-Mar-2008

Unit Number 333

Location BECKLEY, WV

Recorded By JEFF BROMFIELD

Witnessed By MARK ALLAMAN

PVT DATA

Oil Density

Water Salinity

Gas Gravity

Bo

Bw

1/Bg

Bubble Point Pressure

Bubble Point Temperature

Solution GOR

Maximum Deviation

CEMENTING DATA

Primary/Squeeze

Casing String No

Lead Cement Type

Volume

Density

Water Loss

Additives

Tail Cement Type

Volume

Density

Water Loss

Additives

Expected Cement Top

Logging Date

Run Number

Depth Driller

Schlumberger Depth

Bottom Log Interval

Top Log Interval

Casing Fluid Type

Salinity

Density

Fluid Level

BIT/CASING/TUBING STRING

Bit Size

From

To

Casing/Tubing Size

Weight

Grade

From

To

Maximum Recorded Temperatures

Logger On Bottom

Unit Number

Location

Recorded By

Witnessed By

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1

OS1: NONE

OS2:

OS3:

OS4:

OS5:

OTHER SERVICES2

OS1:

OS2:

OS3:

OS4:

OS5:

REMARKS: RUN NUMBER 1

REMARKS: RUN NUMBER 2

ALL FIRST RUN IN WELL DEPTH CONTROL PROCEDURES FOLLOWED.

PRESENTATIONS AS PER CLIENT REQUEST.

MATRIX DENSITY: 2.68 G/CC

NEUTRON MATRIX: LIMESTONE

THERMAL POROSITY USED IN FLUID. EPITHERMAL POROSITY USED IN AIR.

FLUID LEVEL AT 1252 FT.

NO CALIBRATION REPORT FOR IFLEX TOOLSTRING.

DATE ON LOGS NOT VALID.

IFLEX TOOL LOST IN HOLE. ATTEMPTING FISHING OPERATION.

THANK YOU FOR CHOOSING SCHLUMBERGER WIRELINE!

RUN 1

SERVICE ORDER #:

12003446

PROGRAM VERSION:

15C0-309

FLUID LEVEL:

1252 ft

RUN 2

SERVICE ORDER #:

PROGRAM VERSION:

FLUID LEVEL:

LOGGED INTERVAL

START

STOP

LOGGED INTERVAL

START

STOP

EQUIPMENT DESCRIPTION

RUN 1

RUN 2

SURFACE EQUIPMENT

WITM-A
PSC_16MHZ

DOWNHOLE EQUIPMENT

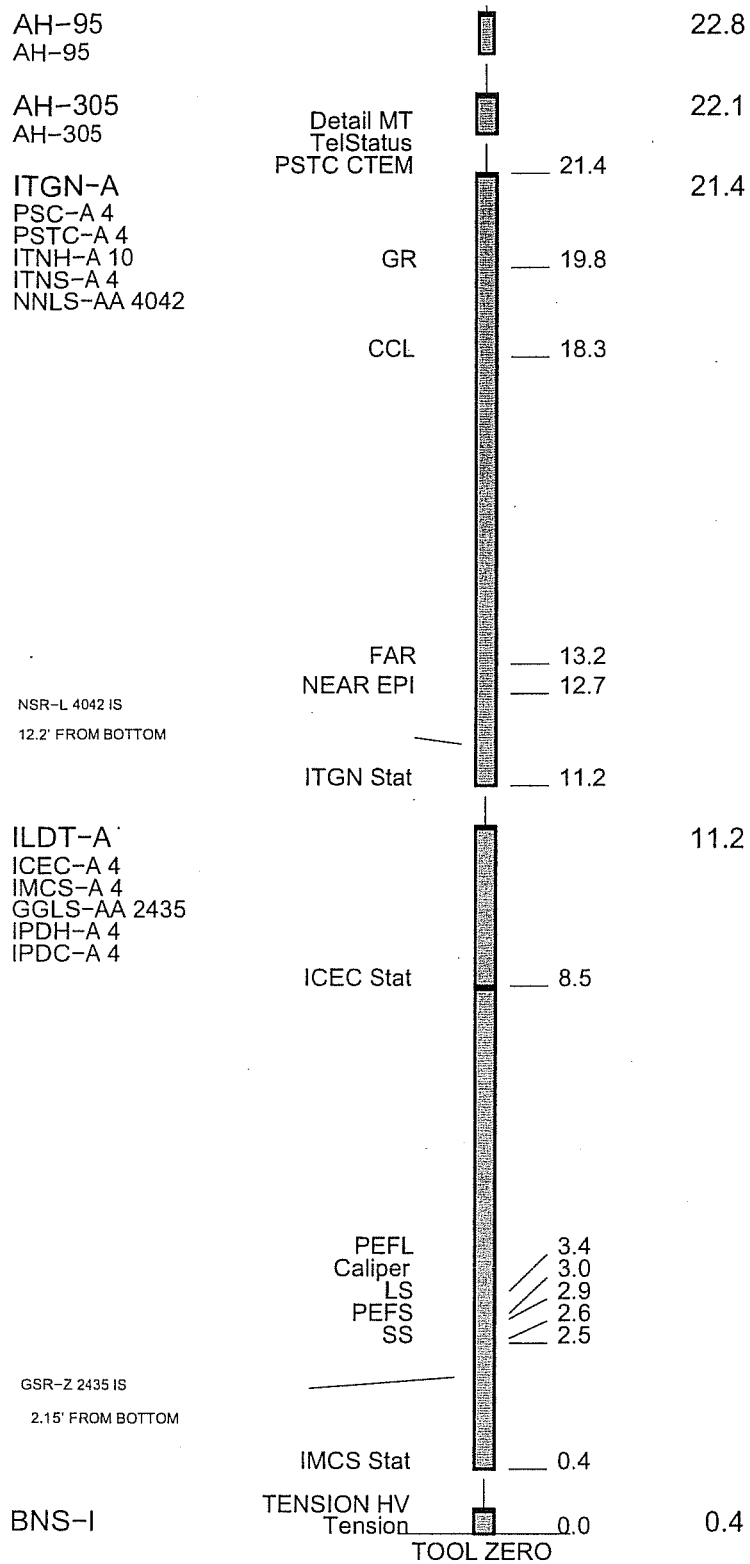
MH-22
MH-22

24.6

AH-38

23.1





Speed Mining
LRPB - 21

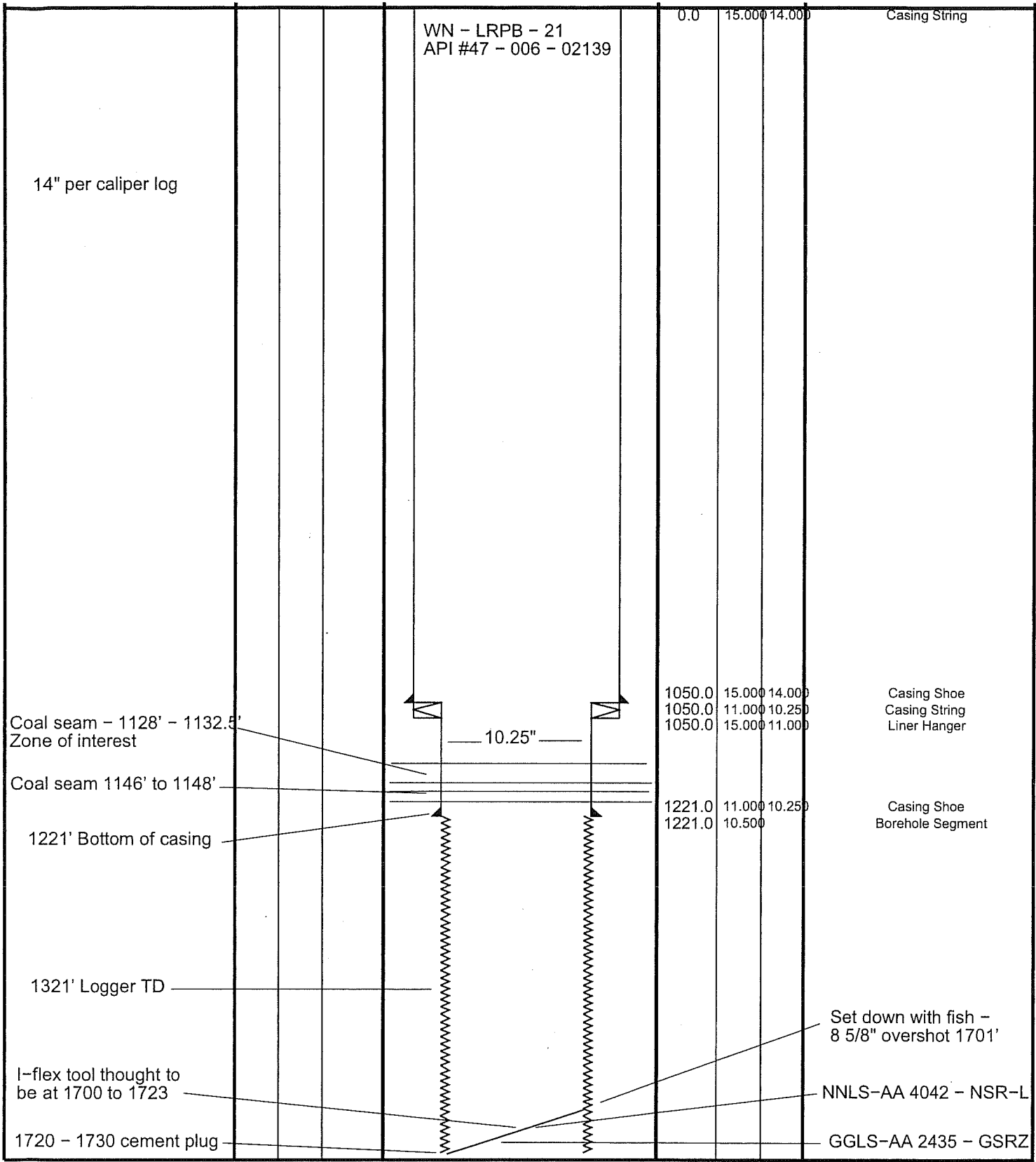
Production String

(in) (ft)
OD ID MD

Well Schematic

(ft) (in)
MD OD ID

Casing String



Schlumberger

HI RES

MAXIS Field Log

Input DLIS Files

DEFAULT	LDL_CNL_004LUP	FN:3	PRODUCER	13-Mar-2008 16:48	1330.0 FT	861.0 FT
---------	----------------	------	----------	-------------------	-----------	----------

Output DLIS Files

DEFAULT	LDL_CNL_008PUP	FN:7	PRODUCER	13-Mar-2008 16:13	1330.0 FT	875.5 FT
---------	----------------	------	----------	-------------------	-----------	----------

OP System Version: 15C0-309

MCM

ILDT-A	SPC-3520-IFLEX_b	ITGN-A	SPC-3520-IFLEX_b
--------	------------------	--------	------------------

Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
-----------	-----------	----------------	--------------

DFT IFLEX

GAS

WATER

1250.5 16:13:53

PIP SUMMARY

Time Mark Every 60 S

Corrected Casing
Collar Locator
Amplitude (CCL)

-10 (----) 5

HiRes GammaRay (HGR)

(GAPI)

0 200

Caliper (CALI)

(IN)

4 14

Tension
(TENS)
(LBF)

3000 0

High Resolution Epithermal Neutron Porosity (ENPH_HR)

0.3

(V/V)

-0.1

High Resolution Thermal Neutron Porosity (HTNP)

0.3

(V/V)

-0.1

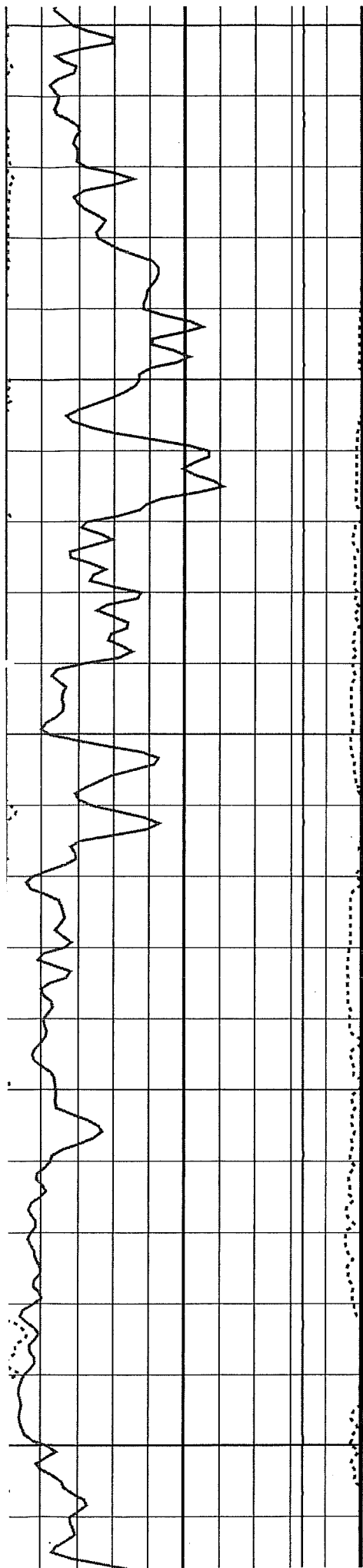
High Resolution Bulk Density (HRHO)

1

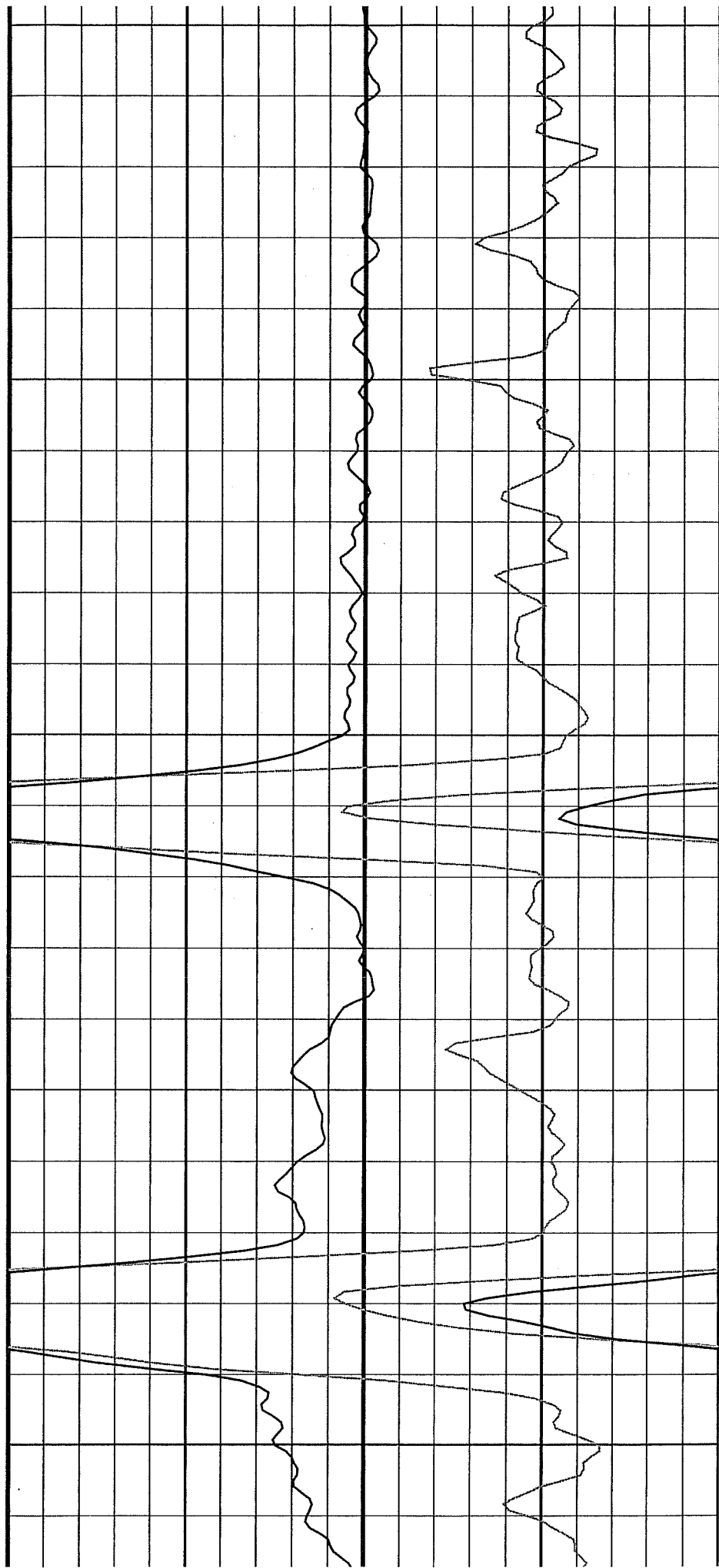
(G/C3)

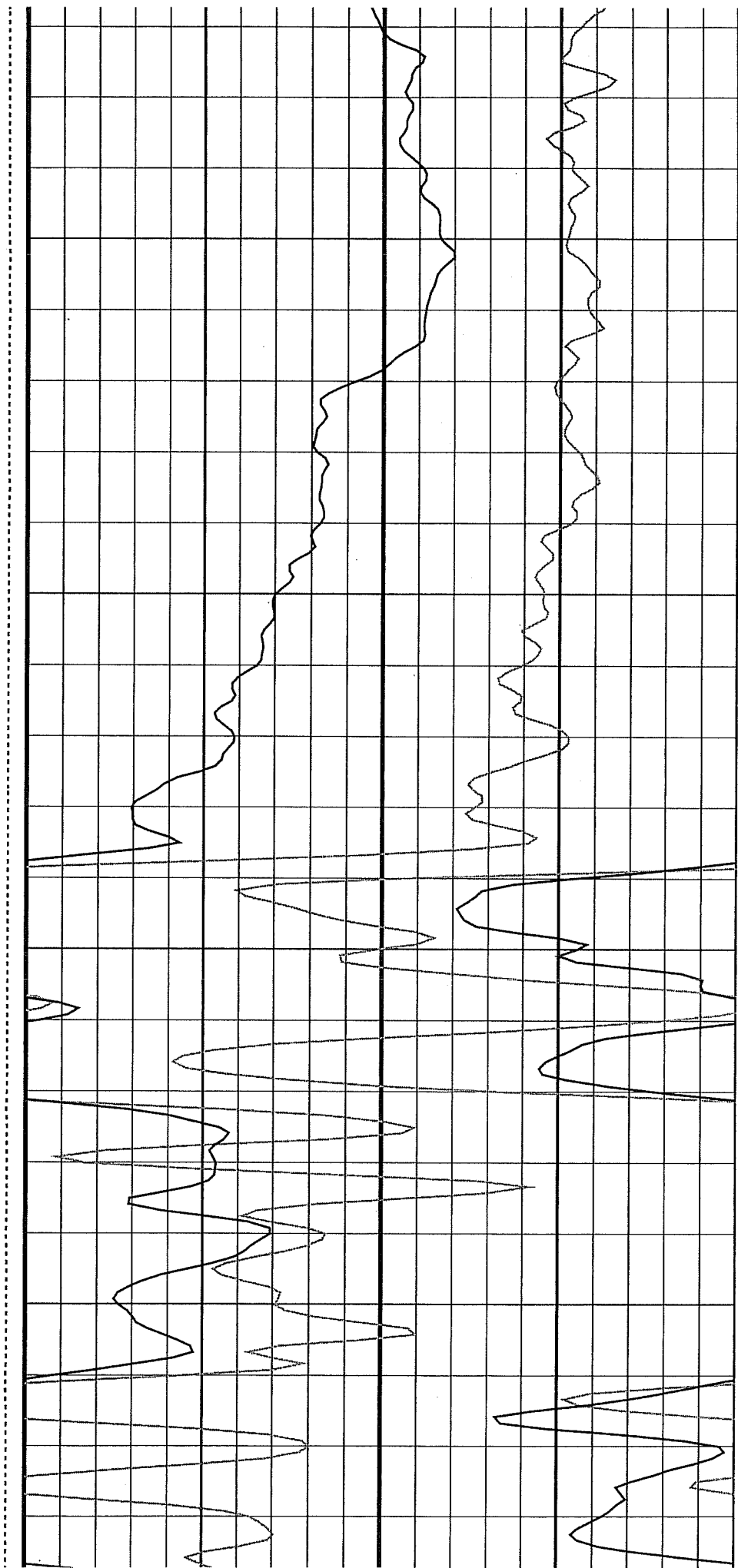
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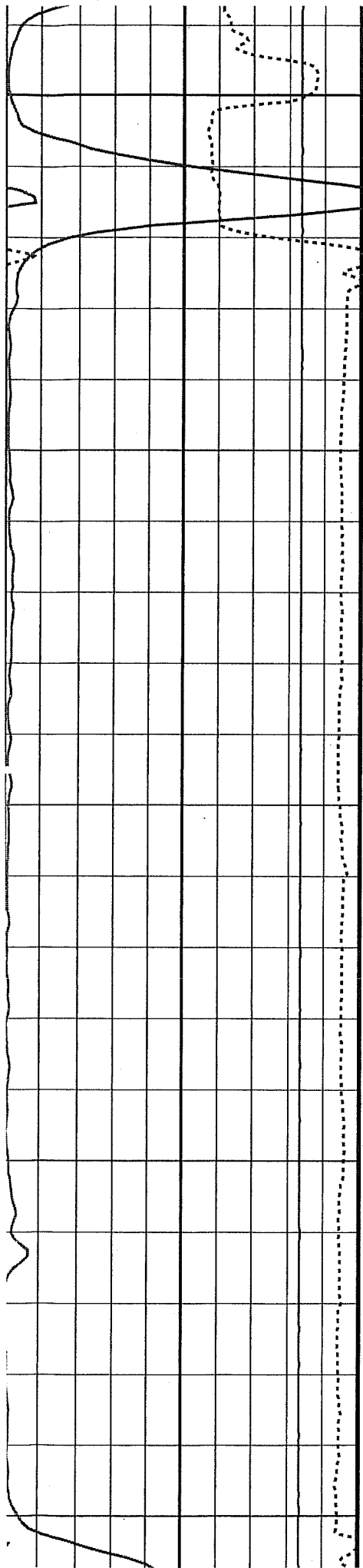
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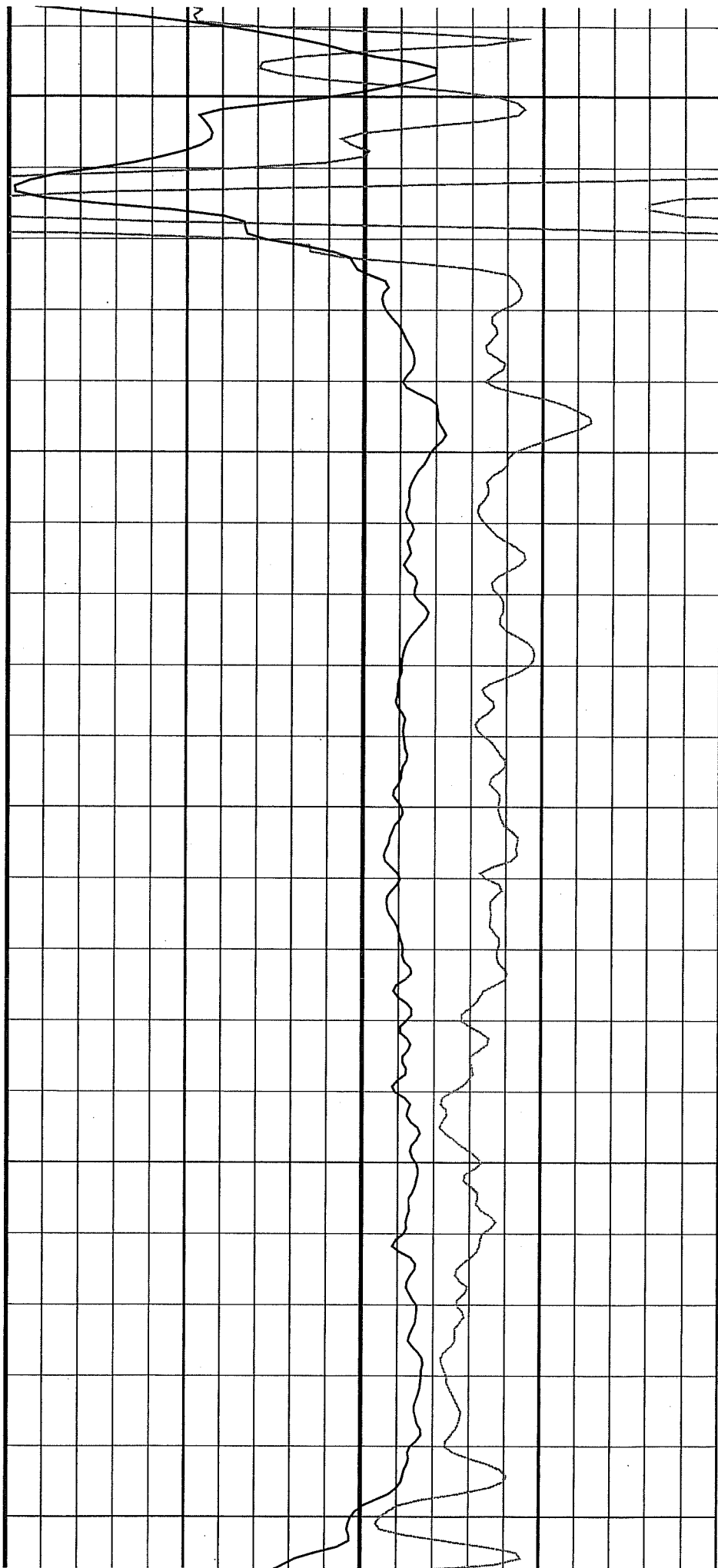
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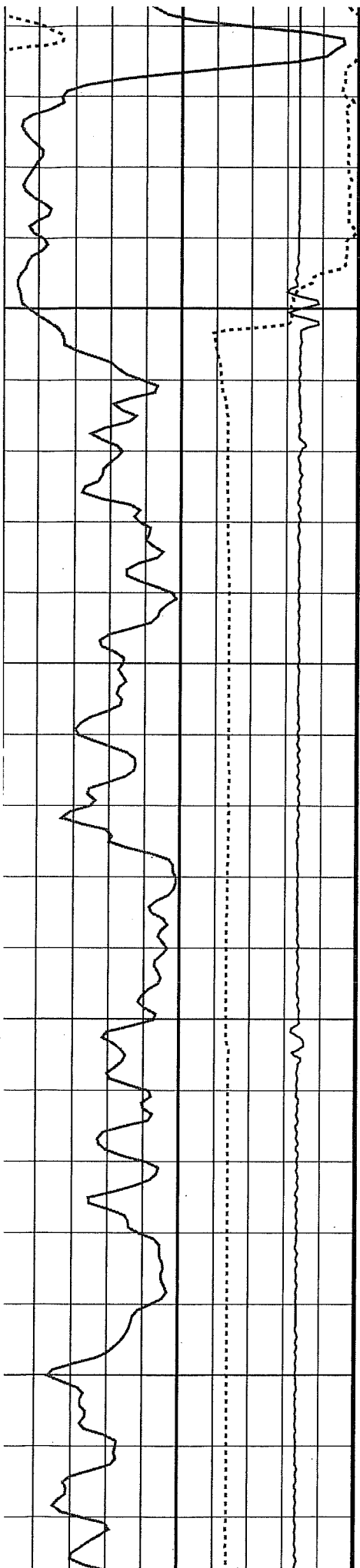




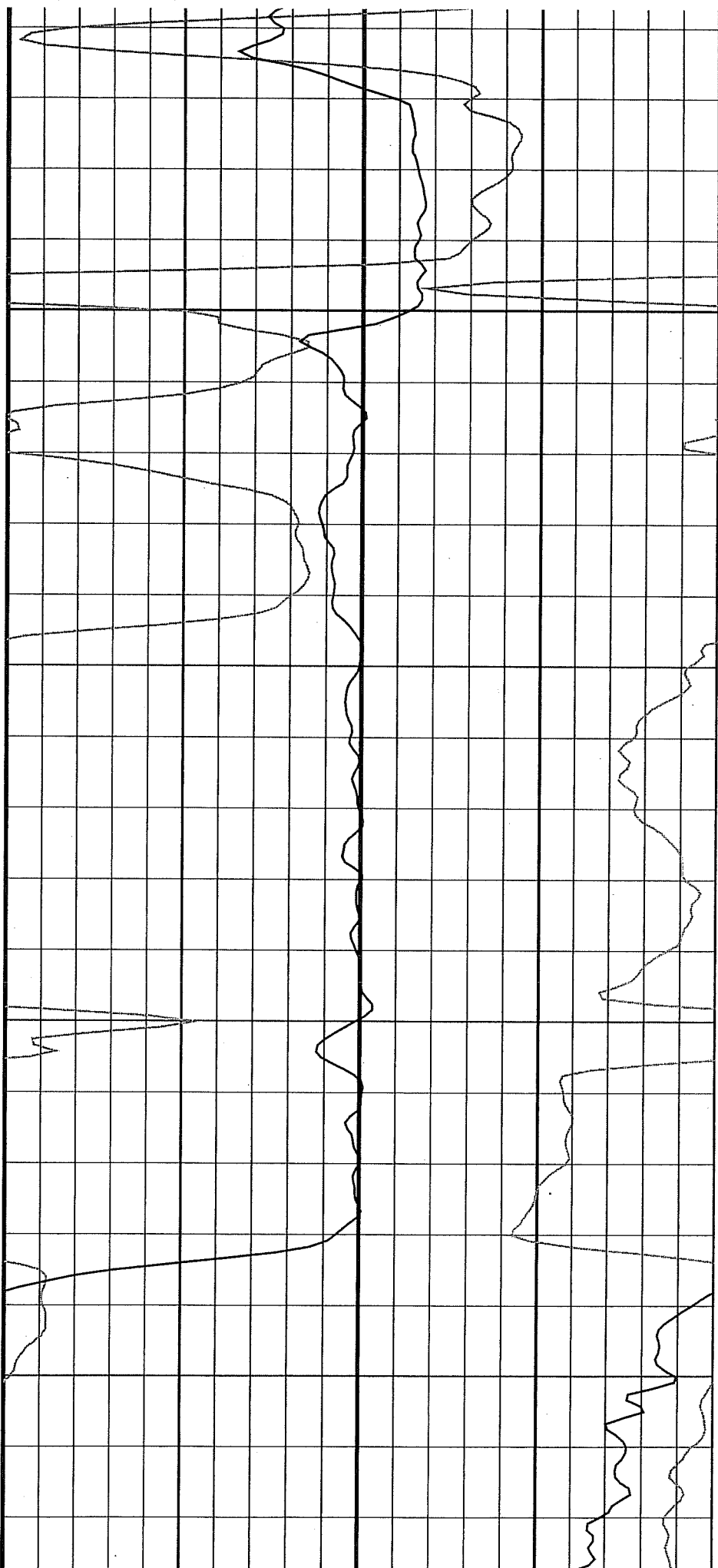


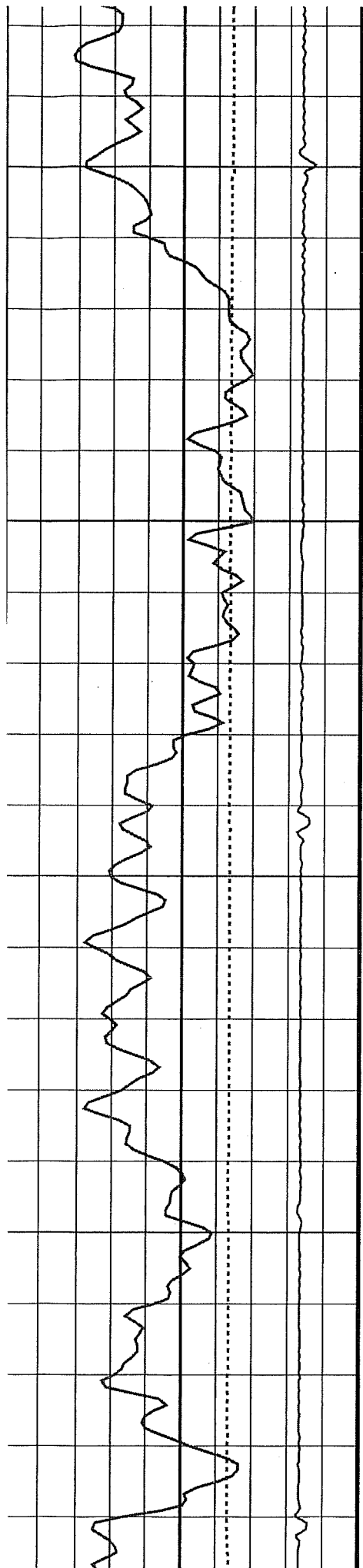
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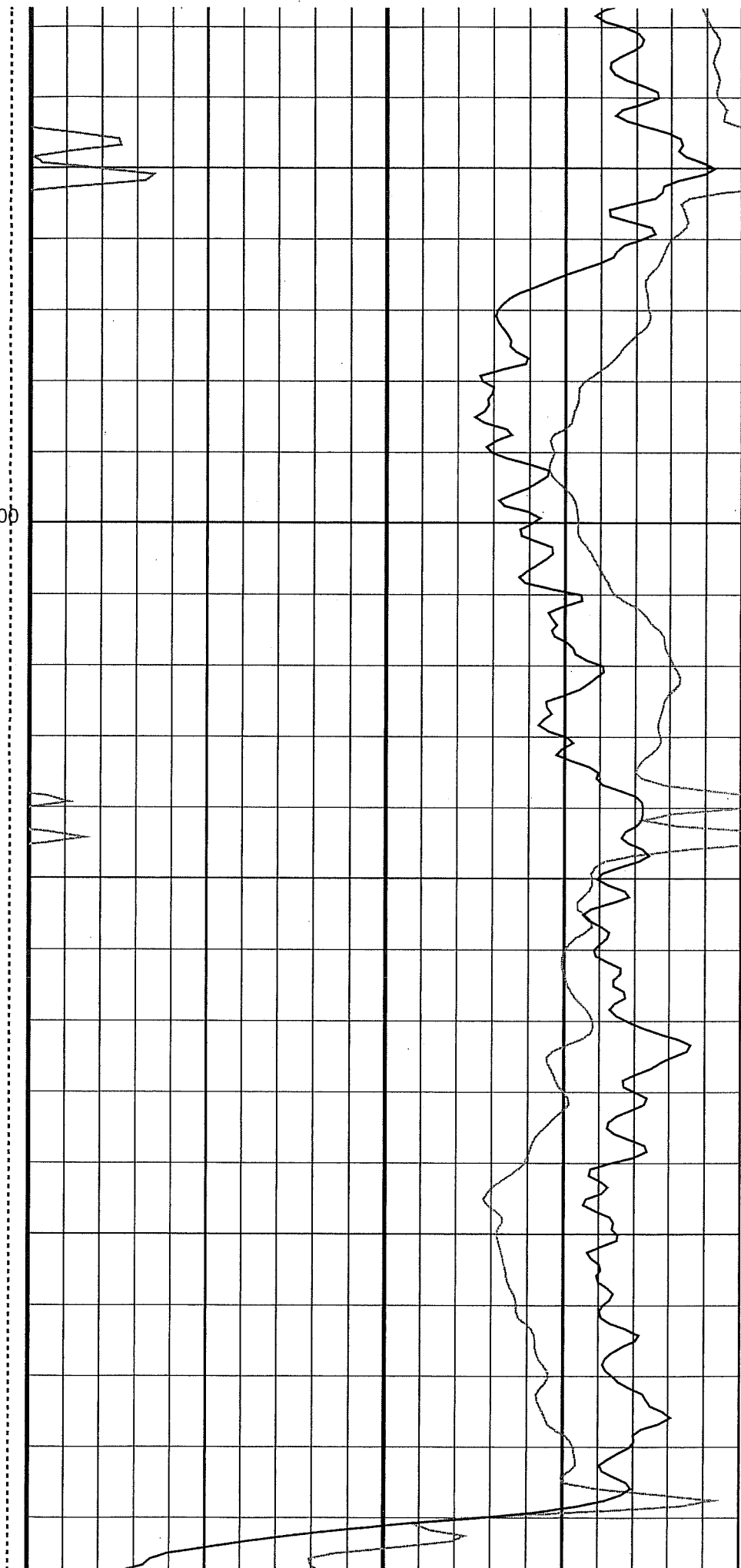


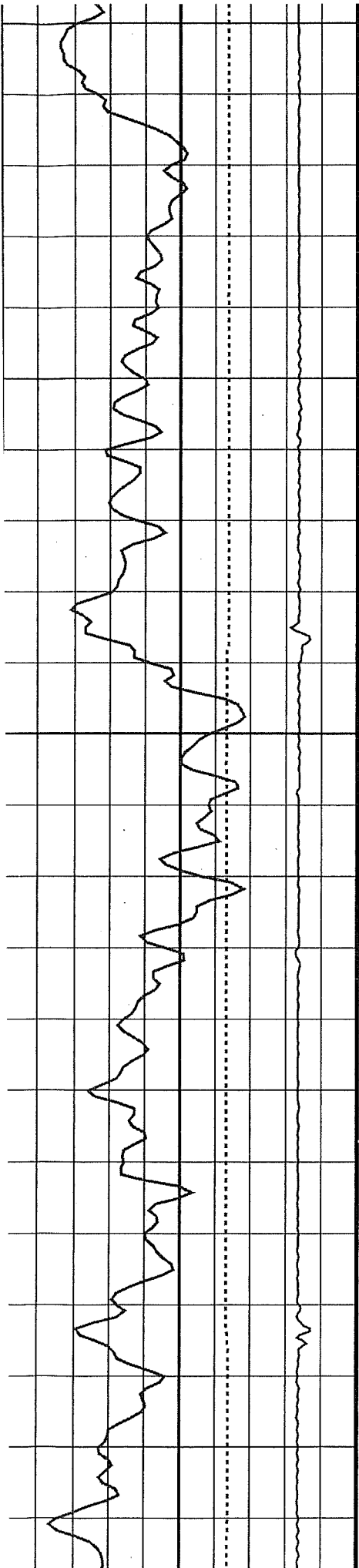
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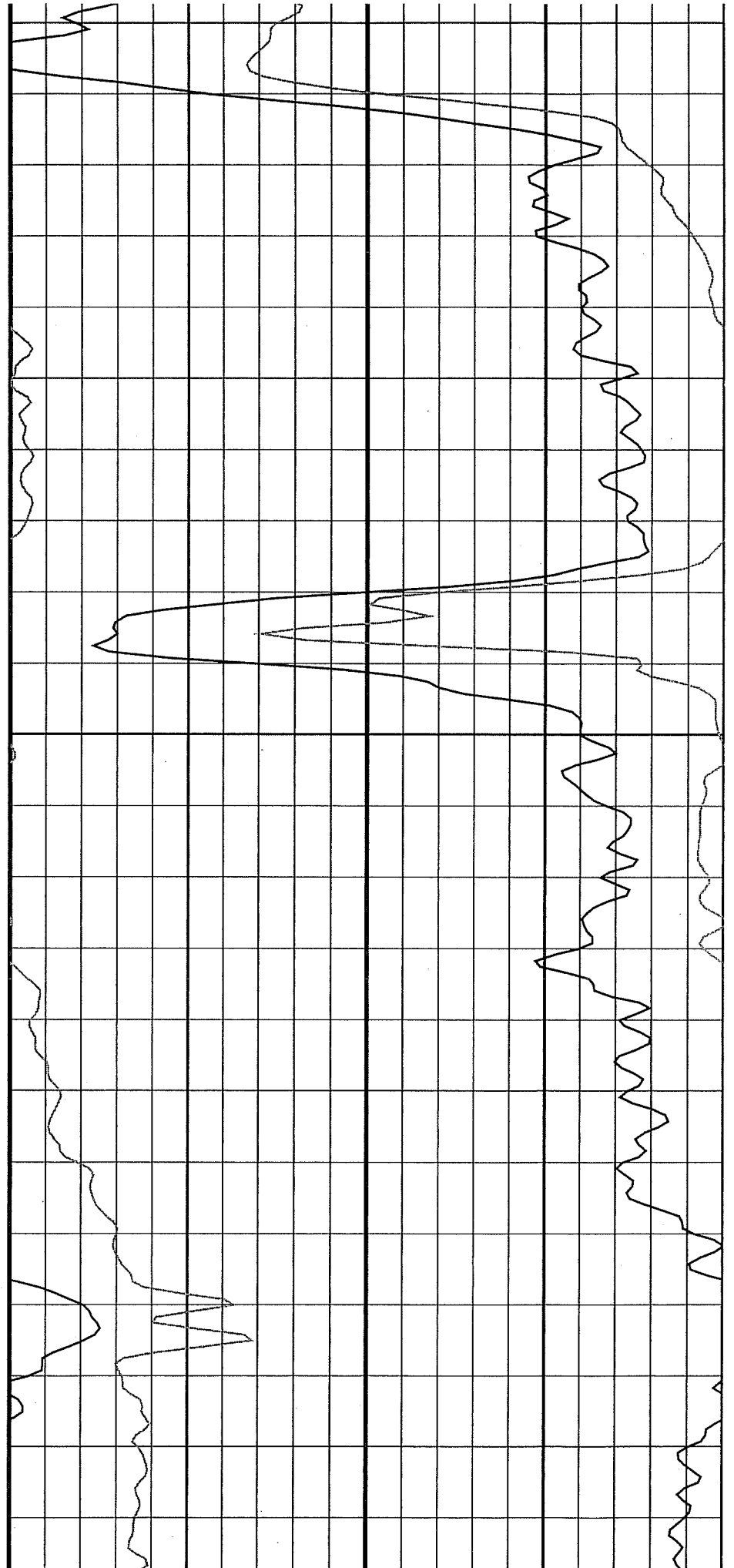


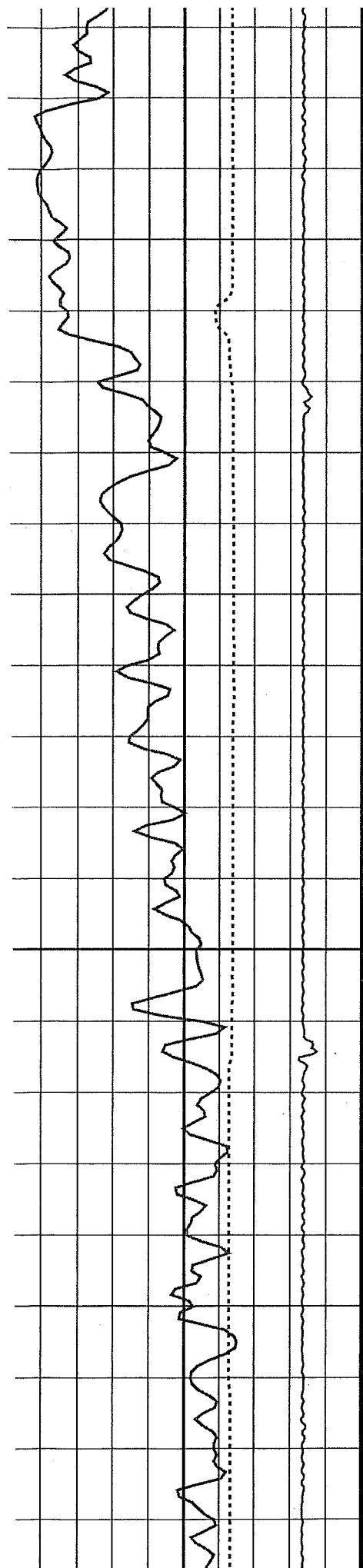
1100



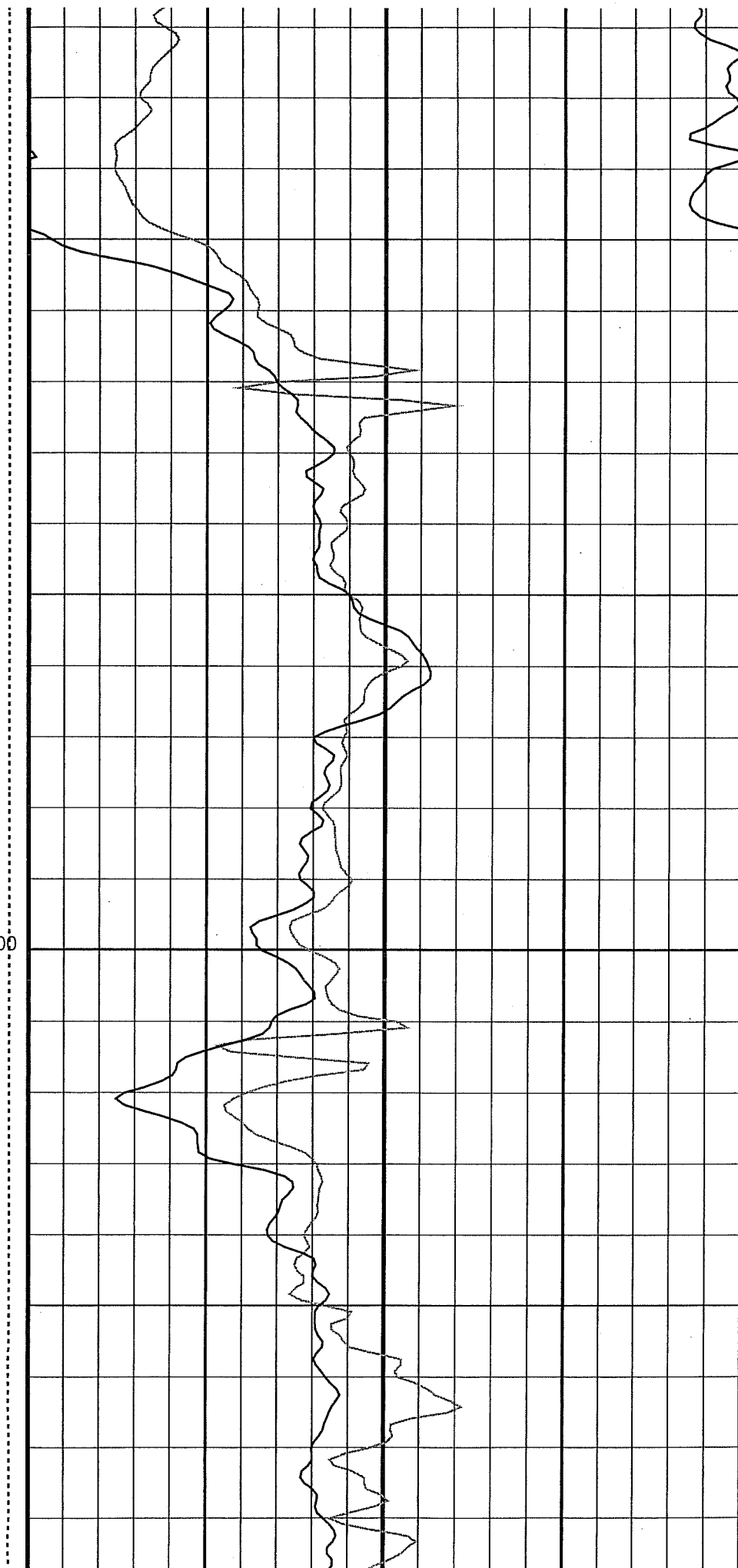


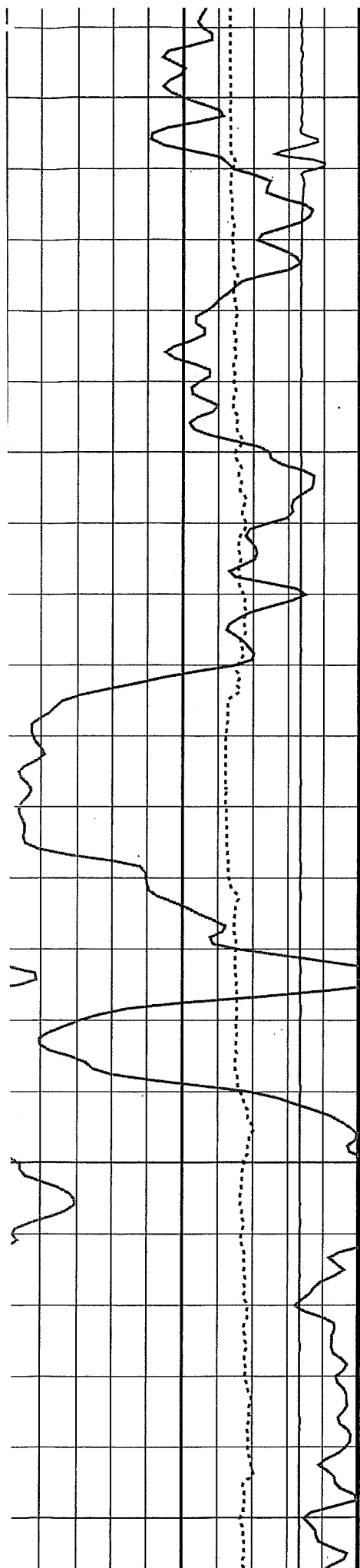
1150



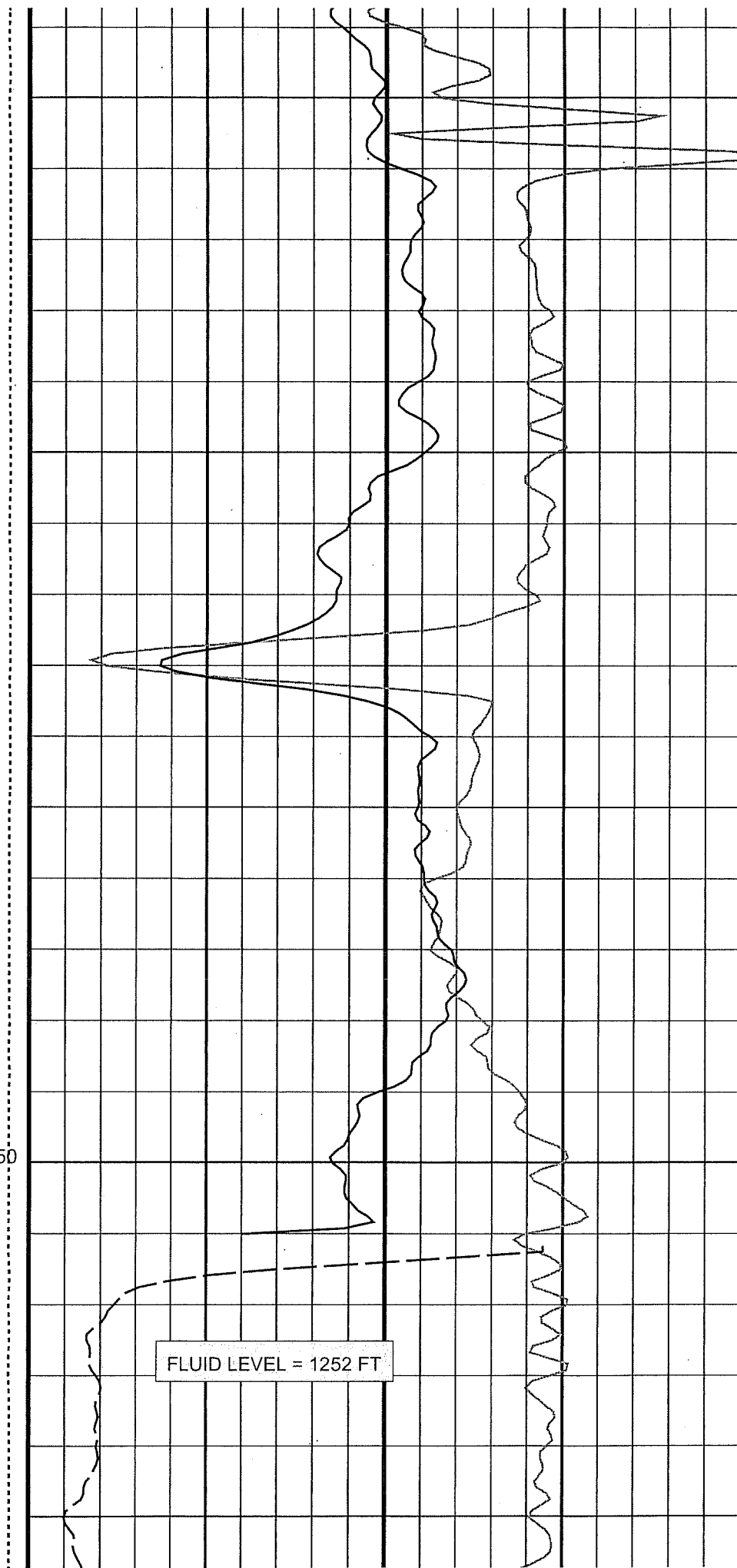


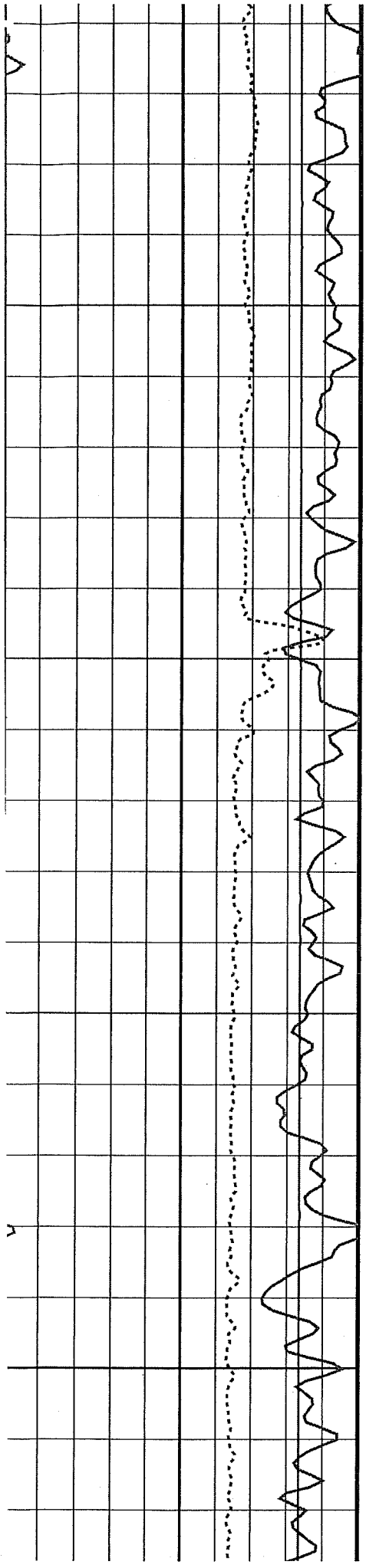
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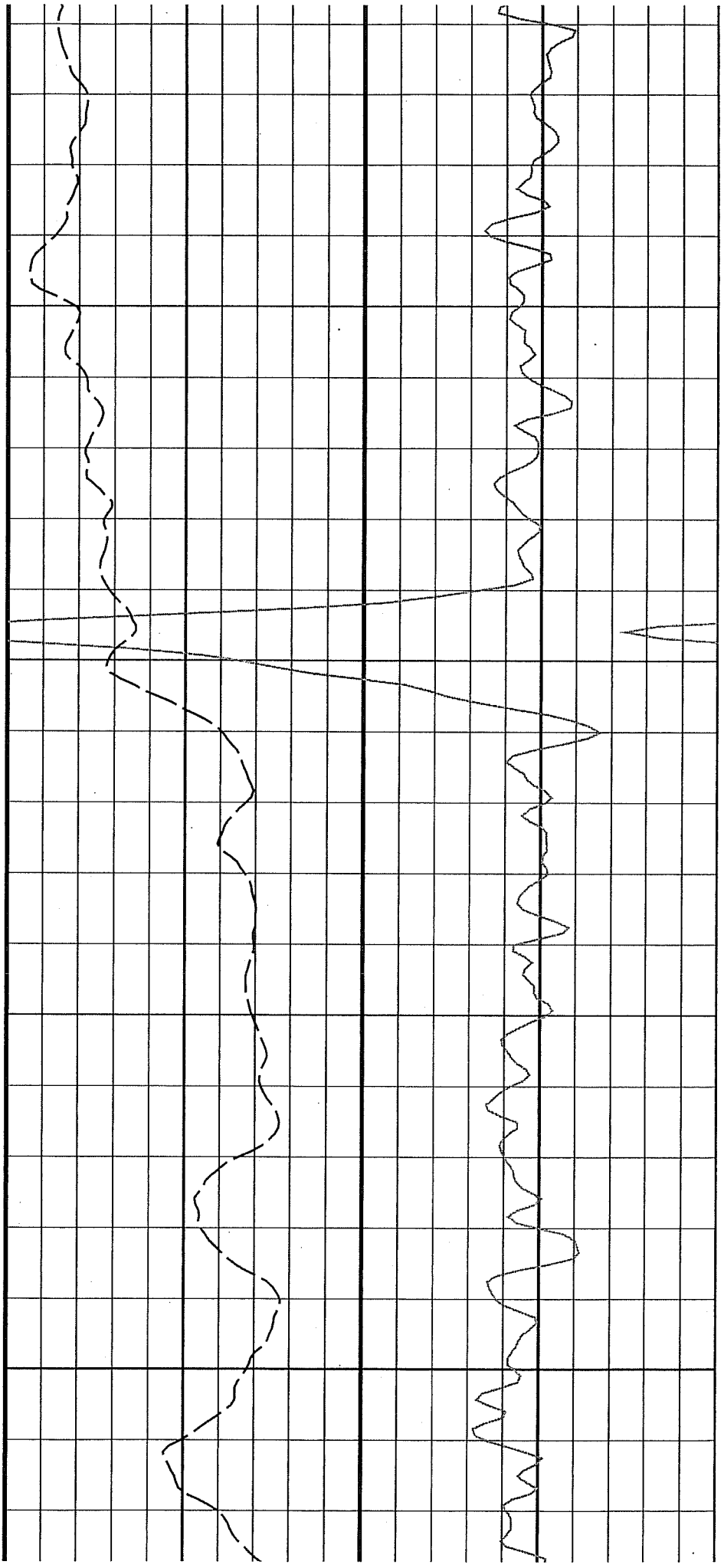


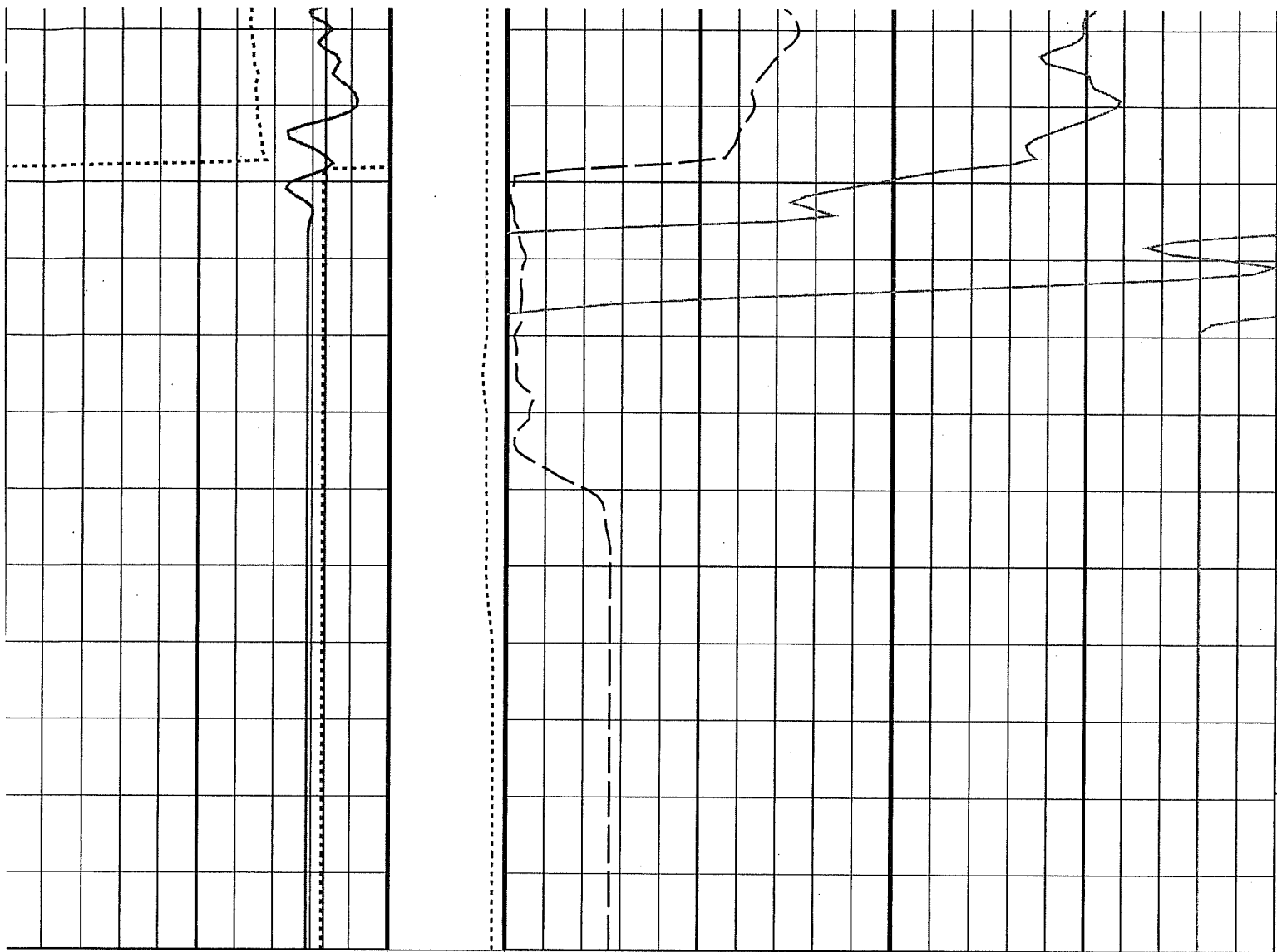
1250





1300





Caliper (CALI) (IN)		Tension (TENS) (LBF)	High Resolution Bulk Density (HRHO) (G/C3)	
4	14		1	2
HiRes GammaRay (HGR) (GAPI)		3000	High Resolution Thermal Neutron Porosity (HTNP) (V/V)	
0	200	0	0.3	-0.1
Corrected Casing Collar Locator Amplitude (CCL)			High Resolution Epithermal Neutron Porosity (ENPH_HR) (V/V)	
-10	5		0.3	-0.1

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
ILDT-A: iFlex Litho Density Tool		
BHS	Borehole Status	OPEN
DFT_IFLEX	Drilling Fluid Type	WATER
DHNV_ICEC	ICEC Firmware Version	06.13.14
DHNV_IPDP	IPDP Firmware Version	05.13.14
FD	Fluid Density	1 G/C3
GCSE	Generalized Caliper Selection	CALI
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
MDEN	Matrix Density	2.68 G/C3
PVN_IPDP	IPDP Computation Version	2.006
TBHS_ILDT	ILDT Tool Borehole Diameter Source	CALI
ITGN-A: iFlex Telemetry Gamma Neutron Tool		
BARI_ITGN	Barite Mud Presence Flag	NO
RHS	Borehole Status	OPEN

BSCO	Borehole Status	NO	
CCLD	Borehole Salinity Correction Option	12	IN
CCLT	CCL reset delay	1	V
DFT_IFLEX	CCL Detection Level		
FSAL	Drilling Fluid Type	WATER	
FSCO	Formation Salinity	-50000	PPM
GCSE	Formation Salinity Correction Option	NO	
HSCO	Generalized Caliper Selection	CALI	
MATR	Hole Size Correction Option	YES	
MCCO	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MWCO	Mud Cake Correction Option	NO	
NICO	Mud Weight Correction Option	NO	
PTCO	Neutron Interference Correction Option	YES	
SDAT	Pressure Temperature Correction Option	NO	
SOCN	Standoff Data Source	SOCN	
SOCO	Standoff Distance	0	IN
TBHD	Standoff Correction Option	NO	
TBHTS	ITGN Tool Borehole Diameter Source	CALI	
	ITGN Tool Borehole Temperature Source	GTSE	
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	CALI	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
	System and Miscellaneous		
BS	Bit Size	0.000	IN
BSAL	Borehole Salinity	-50000.00	PPM
DFD	Drilling Fluid Density	0.00	LB/G
DO	Depth Offset for Playback	0.0	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM

Format: COAL_LOG_HIRES Vertical Scale: 25" per 100' Graphics File Created: 13-Mar-2008 16:13

OP System Version: 15C0-309

MCM

ILDT-A SPC-3520-IFLEX_b ITGN-A SPC-3520-IFLEX_b

Input DLIS Files

DEFAULT LDL_CNL_004LUP FN:3 PRODUCER 13-Mar-2008 16:48 1330.0 FT 861.0 FT

Output DLIS Files

DEFAULT LDL_CNL_008PUP FN:7 PRODUCER 13-Mar-2008 16:13

Schlumberger

5" MAIN PASS

MAXIS Field Log

Input DLIS Files

DEFAULT LDL_CNL_004LUP FN:3 PRODUCER 13-Mar-2008 16:48 1330.0 FT 861.0 FT

Output DLIS Files

DEFAULT LDL_CNL_008PUP FN:7 PRODUCER 13-Mar-2008 16:13 1330.0 FT 875.5 FT

OP System Version: 15C0-309

MCM

ILDT-A SPC-3520-IFLEX_b ITGN-A SPC-3520-IFLEX_b

Chanded Parameter Summary

DLIS Name

New Value

Previous Value Depth & Time

DFT IFLEX

GAS

WATER

1250.5 16:13:53

PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
 - └ Integrated Cement Volume Minor Pip Every 10 F3
 - └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Corrected Casing
Collar Locator
Amplitude (CCL)

-10 (-----) 5

GR > 200
From LHT1 to GR1

Gamma Ray (GR)

0 (GAPI) 200

Caliper (CALI)

(IN)

4 14

Tension
(TENS)
(LBF)

3000 0

Bulk Density (RHOB)

(G/C3)

1 2

Thermal Neutron Porosity (TNPH)

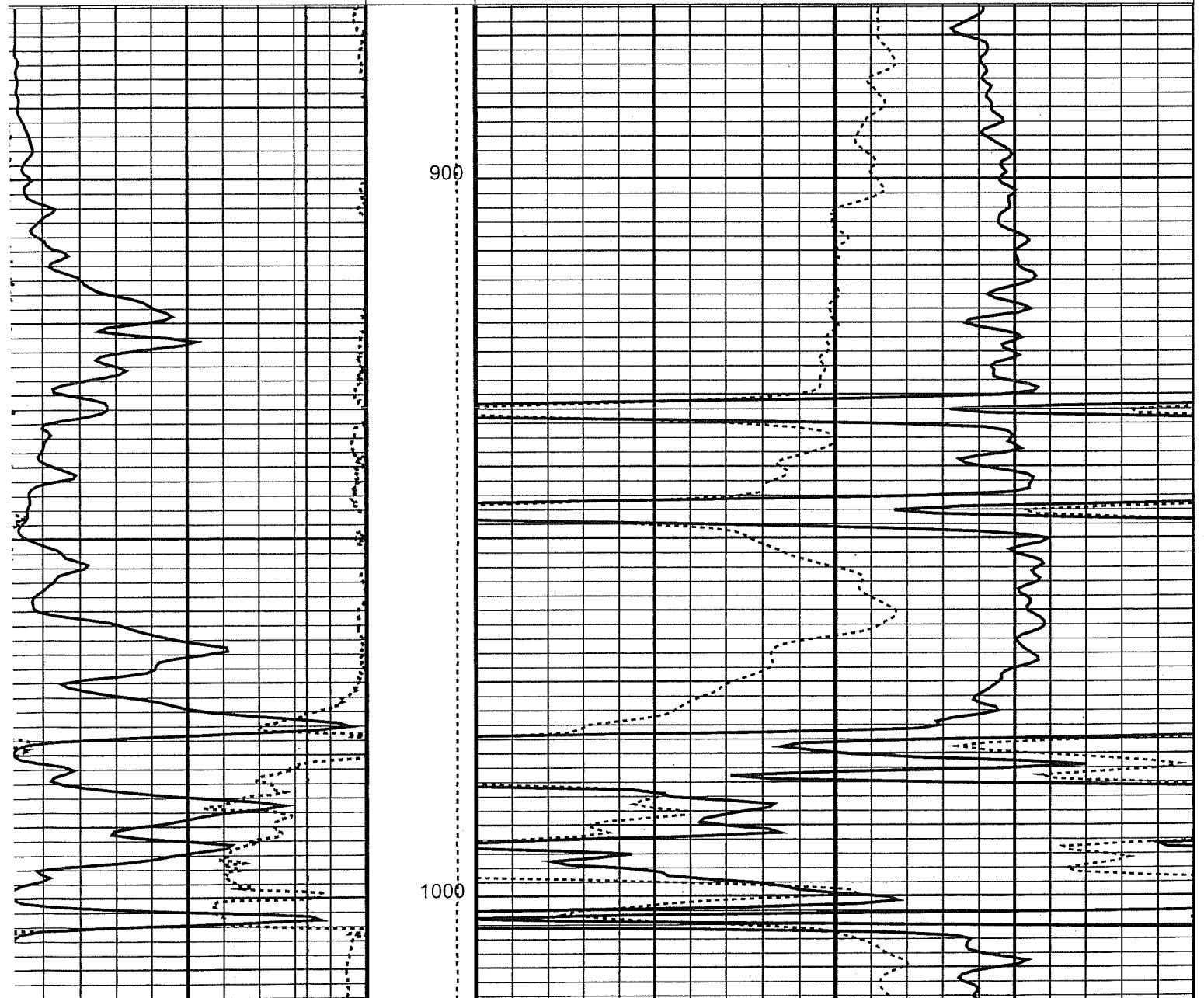
(V/V)

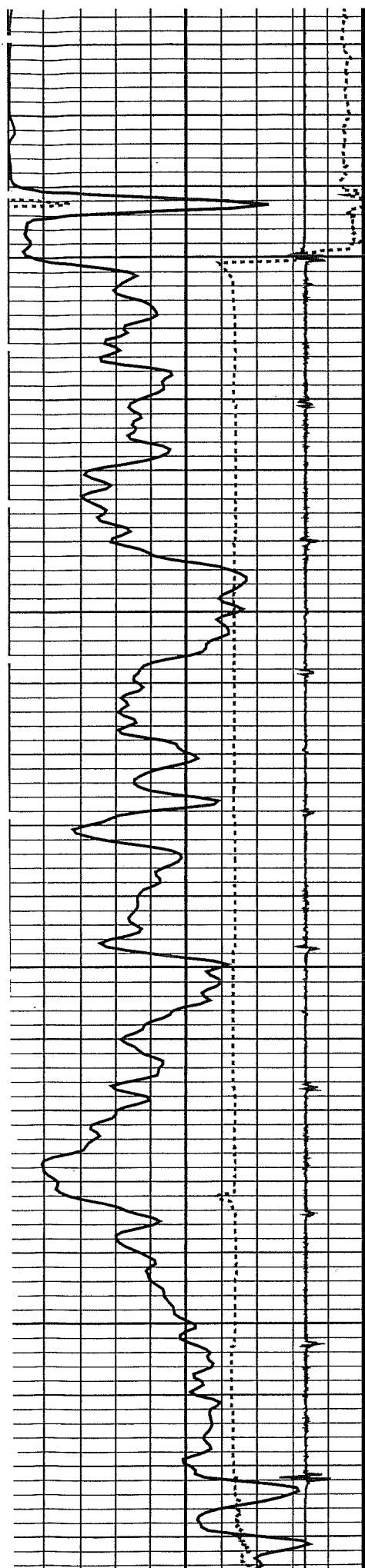
0.3 -0.1

Epithermal Neutron Porosity (ENPH)

(V/V)

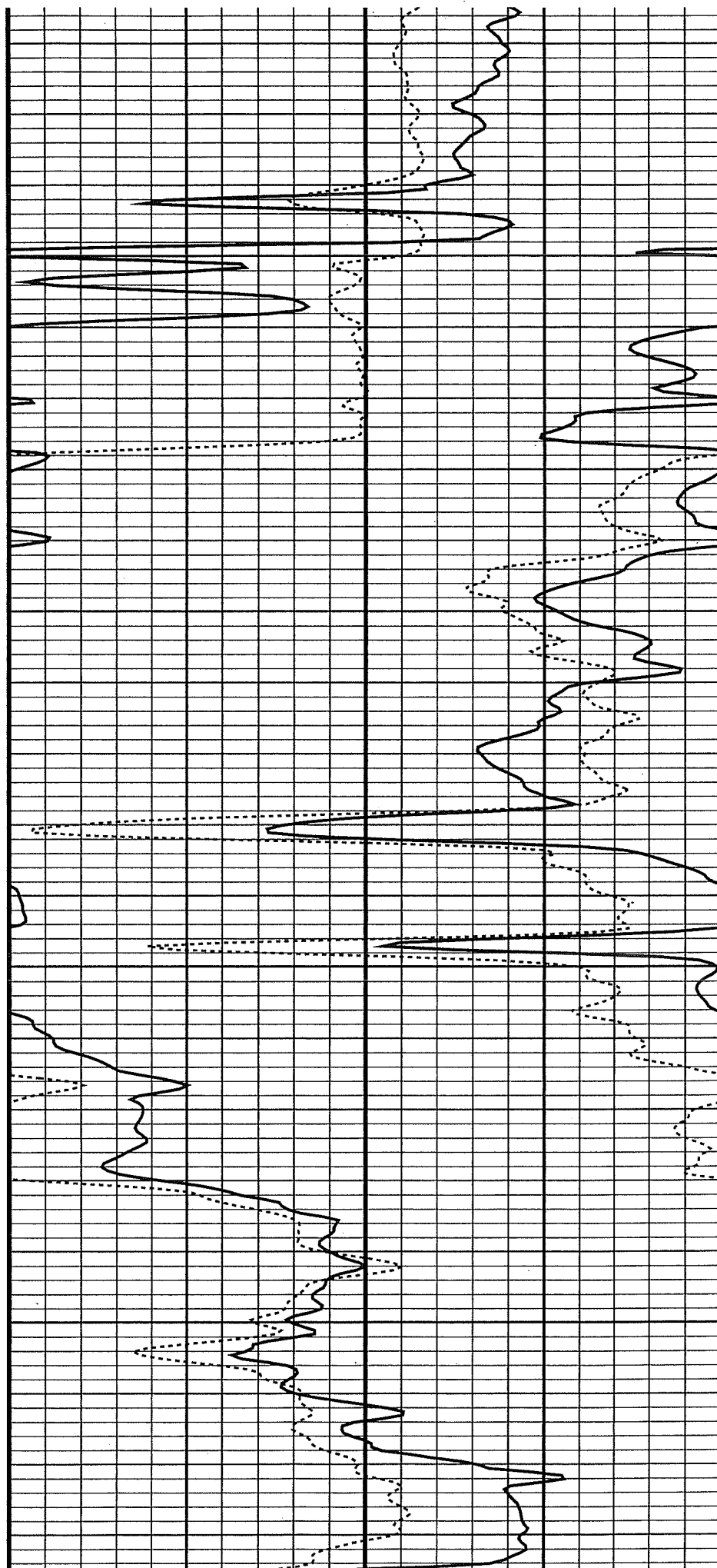
0.3 -0.1

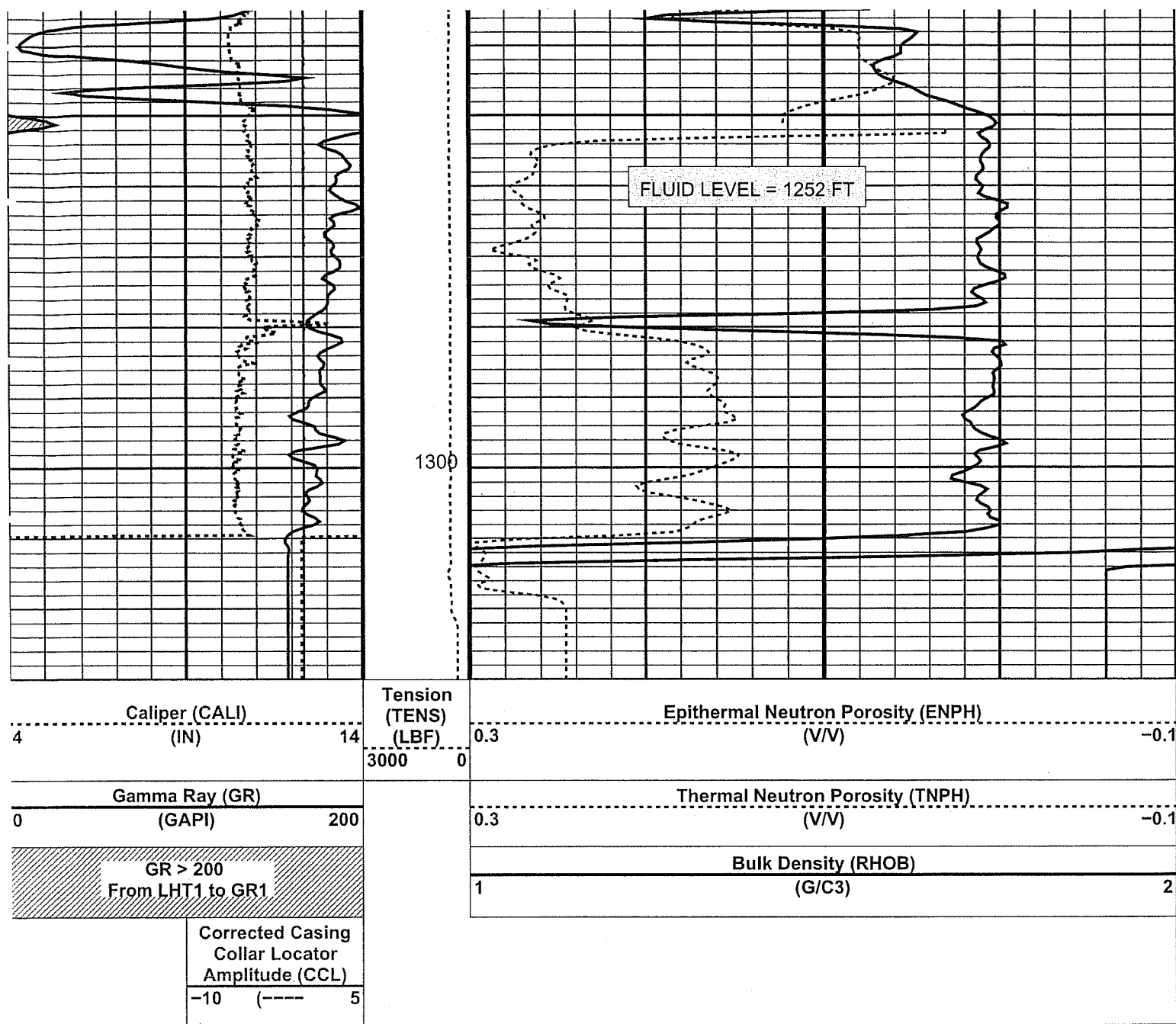




1100

1200





PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
 - └ Integrated Cement Volume Minor Pip Every 10 F3
 - └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
ILDT-A: iFlex Litho Density Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	125	DEGF
DALPO	Density Alpha Processing Option	NO	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHC	Density Hole Correction	BS	
DHNV_ICEC	ICEC Firmware Version	06.13.14	
DHNV_IPDP	IPDP Firmware Version	05.13.14	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	

MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MDEN	Matrix Density	2.68	G/C3
PSTP	PSTC Tool Position on CAN Bus	1	
PVN_ICEC	ICEC Computation Version	0.001	
PVN_IPDP	IPDP Computation Version	2.006	
SHT	Surface Hole Temperature	40	DEGF
TBHDS_ILDT	ILDT Tool Borehole Diameter Source	CALI	
ITGN-A: iFlex Telemetry Gamma Neutron Tool			
	Tractor Available in Tool String	NO	
BARI_ITGN	Barite Mud Presence Flag	NO	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	125	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	1	V
CSID	Casing Size I.D.	9.075	IN
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ITGN	ITGN Firmware Version	05.13.13	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MWCO	Mud Weight Correction Option	NO	
NICO	Neutron Interference Correction Option	YES	
PSTP	PSTC Tool Position on CAN Bus	1	
PTCO	Pressure Temperature Correction Option	NO	
PVN_ITGN	ITGN Computation Version	1.001	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	40	DEGF
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
TBHDS	ITGN Tool Borehole Diameter Source	CALI	
TBHTS	ITGN Tool Borehole Temperature Source	GTSE	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	125	DEGF
FCD	Future Casing (Outer) Diameter	4.5	IN
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	40	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	1352.00	FT
TDL	Total Depth - Logger	0.00	FT
System and Miscellaneous			
ALTDPCAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	0.000	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	0.000	IN
CWEI	Casing Weight	0.00	LB/F
DFD	Drilling Fluid Density	0.00	LB/G
DO	Depth Offset for Playback	0.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1366	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: COAL_LOG Vertical Scale: 5" per 100'

Graphics File Created: 13-Mar-2008 16:13

OP System Version: 15C0-309

MCM

ILDT-A SPC-3520-IFLEX_b ITGN-A SPC-3520-IFLEX_b

Input DLIS Files

DEFAULT

LDL_CNL_004LUP

FN:3

PRODUCER

13-Mar-2008 16:48

1330.0 FT

861.0 FT

Output DLIS Files

DEFAULT

LDL_CNL_008PUP

FN:7

PRODUCER

13-Mar-2008 16:13

Company: **SPEED MINING**

Schlumberger

Well: **LRPB 21**

Field: **SHERMAN**

County: **BOONE**

State: **WEST VIRGINIA**

COAL LOG

LITHO DENSITY / COMPENSATED NEUTRON

CALIPER / GAMMA RAY