



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1246102  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1246102

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	T & R Oil Company, a General Partnership
Well Name	DENTON 15
Doc ID	1246102

All Electric Logs Run

Gamma Ray
Radial Bond
Variable Density
Casing Collar Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	T & R Oil Company, a General Partnership
Well Name	DENTON 15
Doc ID	1246102

Tops

Name	Top	Datum
Iola	1862	(-430)
Layton Sand	1895	(-463)
KC	1998	(-563)
BKC	2176	(-744)
Fort Scott	2386	(-954)
Cherokee	2422	(-990)
Miss LM	2710	(-1278)
Miss Dolo	2722	(-1290)
Arbuckle	3042	(-1610)



# COMPENSATED DENSITY SIDEWALL NEUTRON MICROLOG

<b>Company</b> T & R OIL COMPANY <b>Well</b> DENTON # 15 <b>Field</b> GRAND SUMMIT <b>County</b> COWLEY <b>State</b> KANSAS	<b>Company</b> T & R OIL COMPANY		
	<b>Well</b> DENTON # 15		
	<b>Field</b> GRAND SUMMIT		
	<b>County</b> COWLEY		<b>State</b> KANSAS
<b>Location:</b>		<b>API #:</b> 15-035-24603-0000	<b>Other Services</b>
E/2 SW SE SE 330' FSL & 690' FEL  SEC 4 TWP 31S RGE 8E		Elevation 1428' Permanent Datum GL Log Measured From KB Drilling Measured From KB	DIL  Elevation K.B. 1432' D.F. 1431' G.L. 1428'
<b>Date</b>	9-27-2014		
<b>Run Number</b>	ONE		
<b>Depth Driller</b>	3100'		
<b>Depth Logger</b>	3098'		
<b>Bottom Logged Interval</b>	3096'		
<b>Top Log Interval</b>	1400'		
<b>Casing Driller</b>	8 5/8" @ 213'		
<b>Casing Logger</b>	8 5/8" @ 213'		
<b>Bit Size</b>	7 7/8"		
<b>Type Fluid in Hole</b>	CHEM-GEL		
<b>Density / Viscosity</b>	9.2 / 55		
<b>pH / Fluid Loss</b>	10.0 / 10.8		
<b>Source of Sample</b>	FLOWLINE		
<b>Rm @ Meas. Temp</b>	1.40 @ 75		
<b>Rmf @ Meas. Temp</b>	1.62 @ 75		
<b>Rmc @ Meas. Temp</b>	1.22 @ 75		
<b>Source of Rmf / Rmc</b>	CAL		
<b>Rm @ BHT</b>	1.02 @ 107		
<b>Time Circulation Stopped</b>	6:00 AM		
<b>Time Logger on Bottom</b>	10:45 AM		
<b>Maximum Recorded Temperature</b>	107		
<b>Equipment Number</b>	OW2		
<b>Location</b>	HOMINY ,OK		
<b>Recorded By</b>	LOWERY		
<b>Witnessed By</b>	MR. PATTESON		

>>> Fold 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

OW2-8737  
 MATRIX LIMESTONE 2.71 G/CC  
 ABHV COMPUTED WITH 5 1/2" CASING

CREW : SHAMBLES

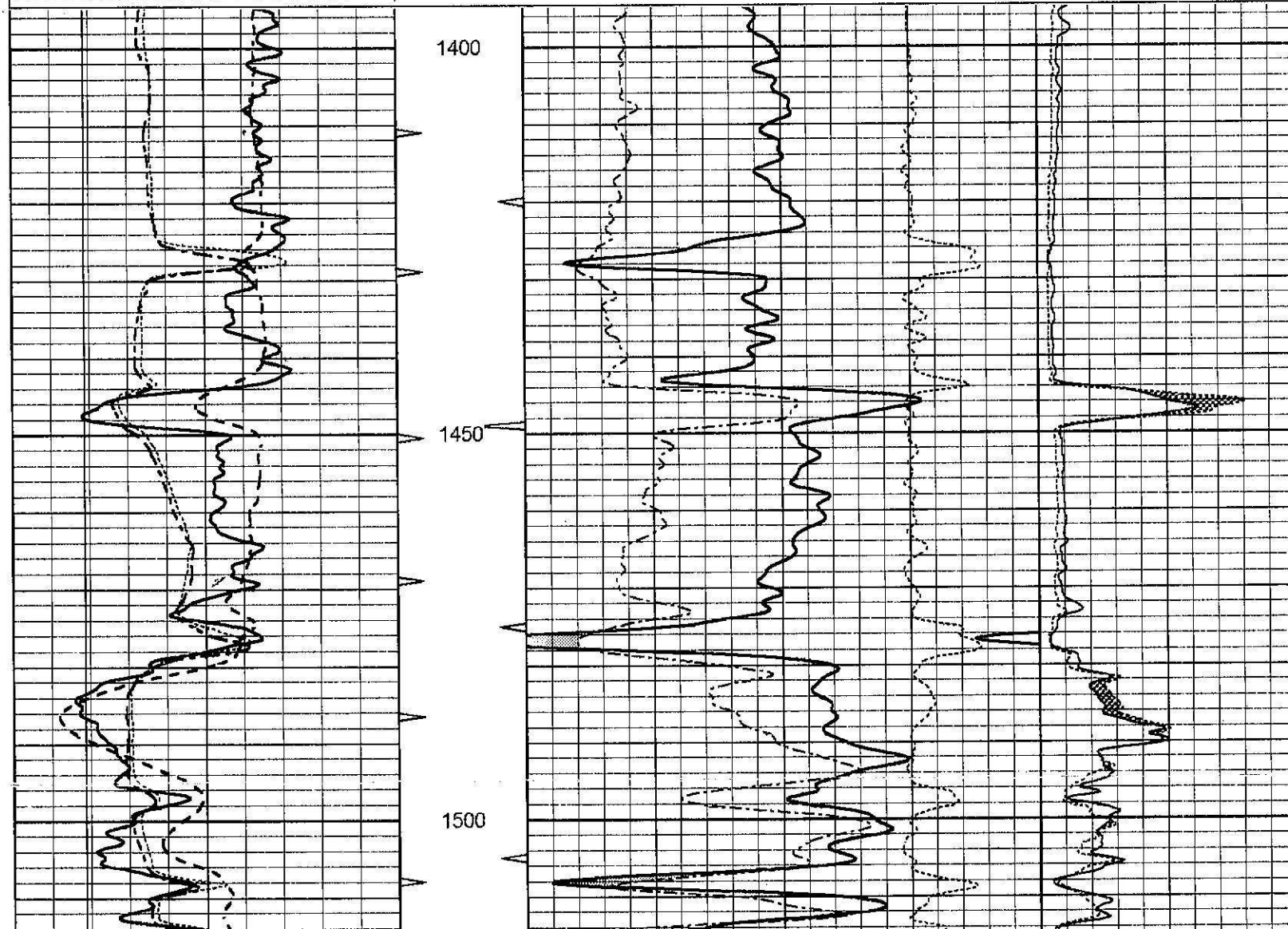


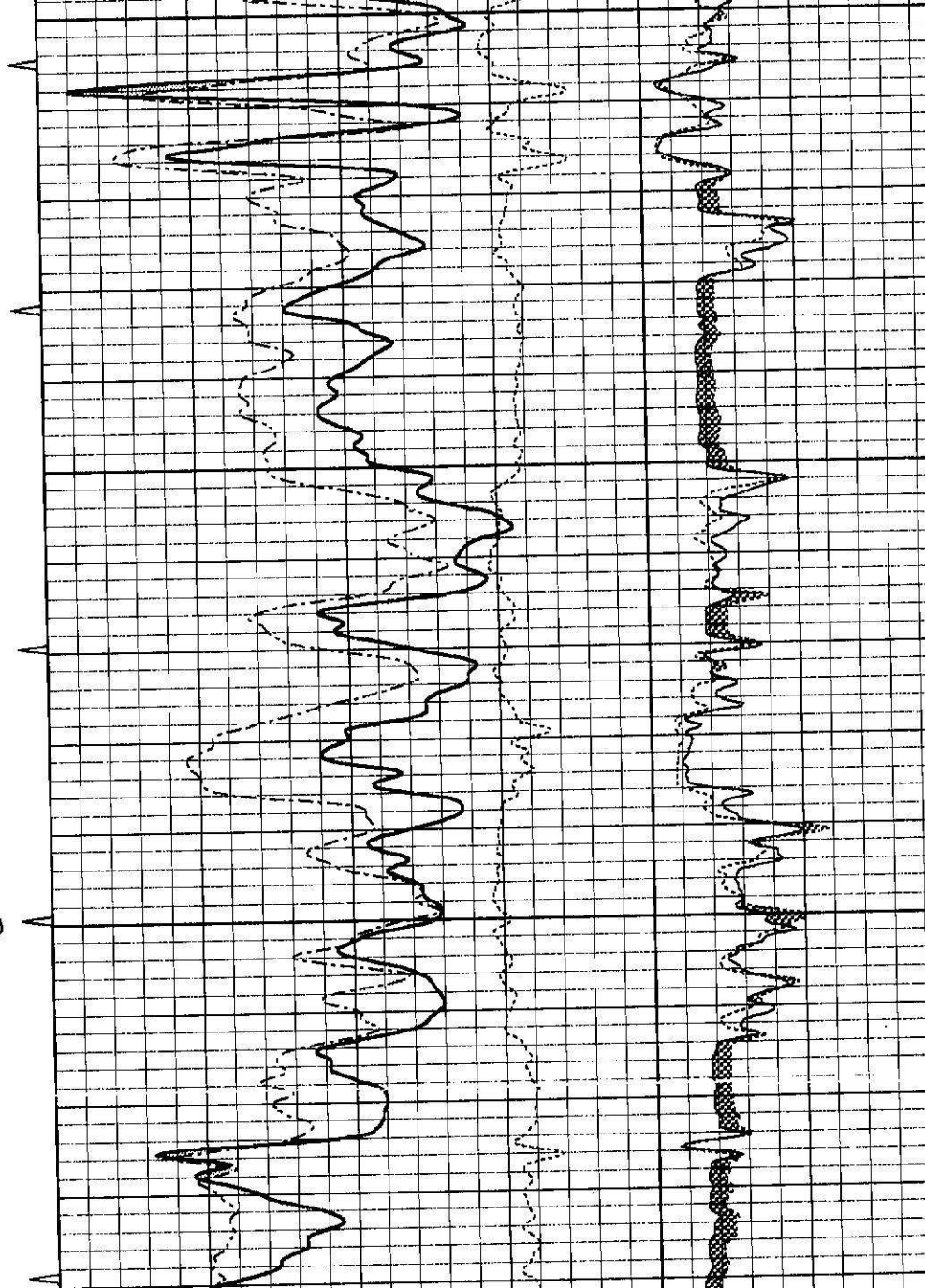
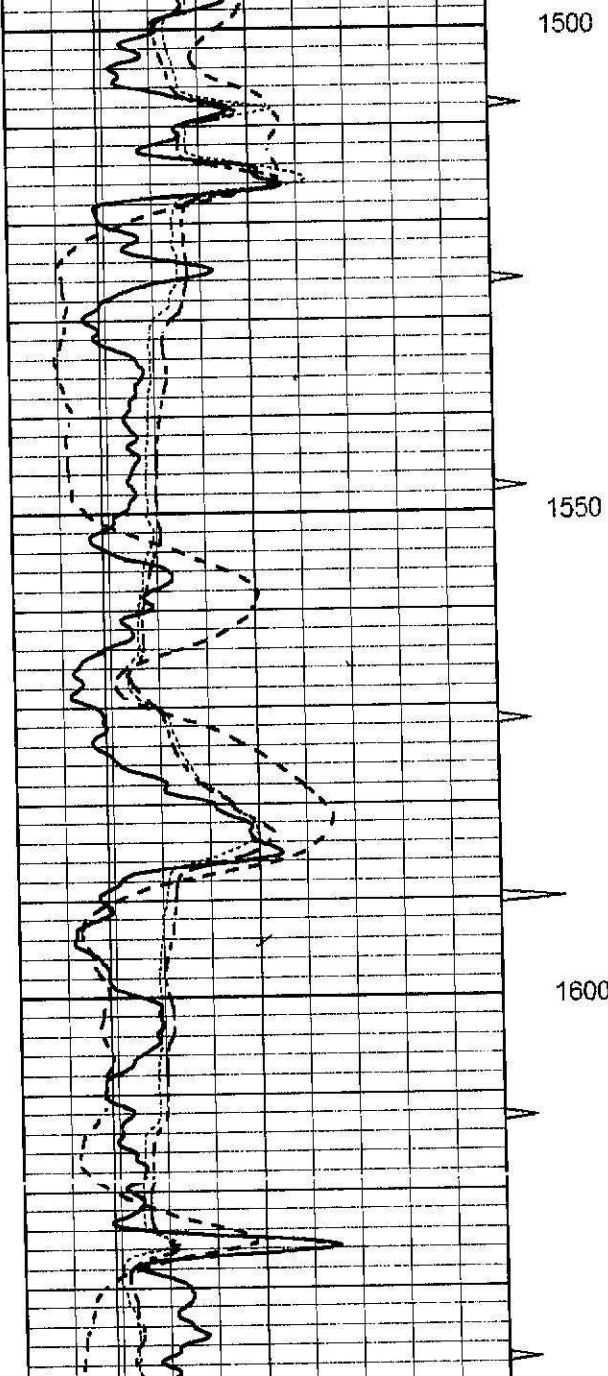
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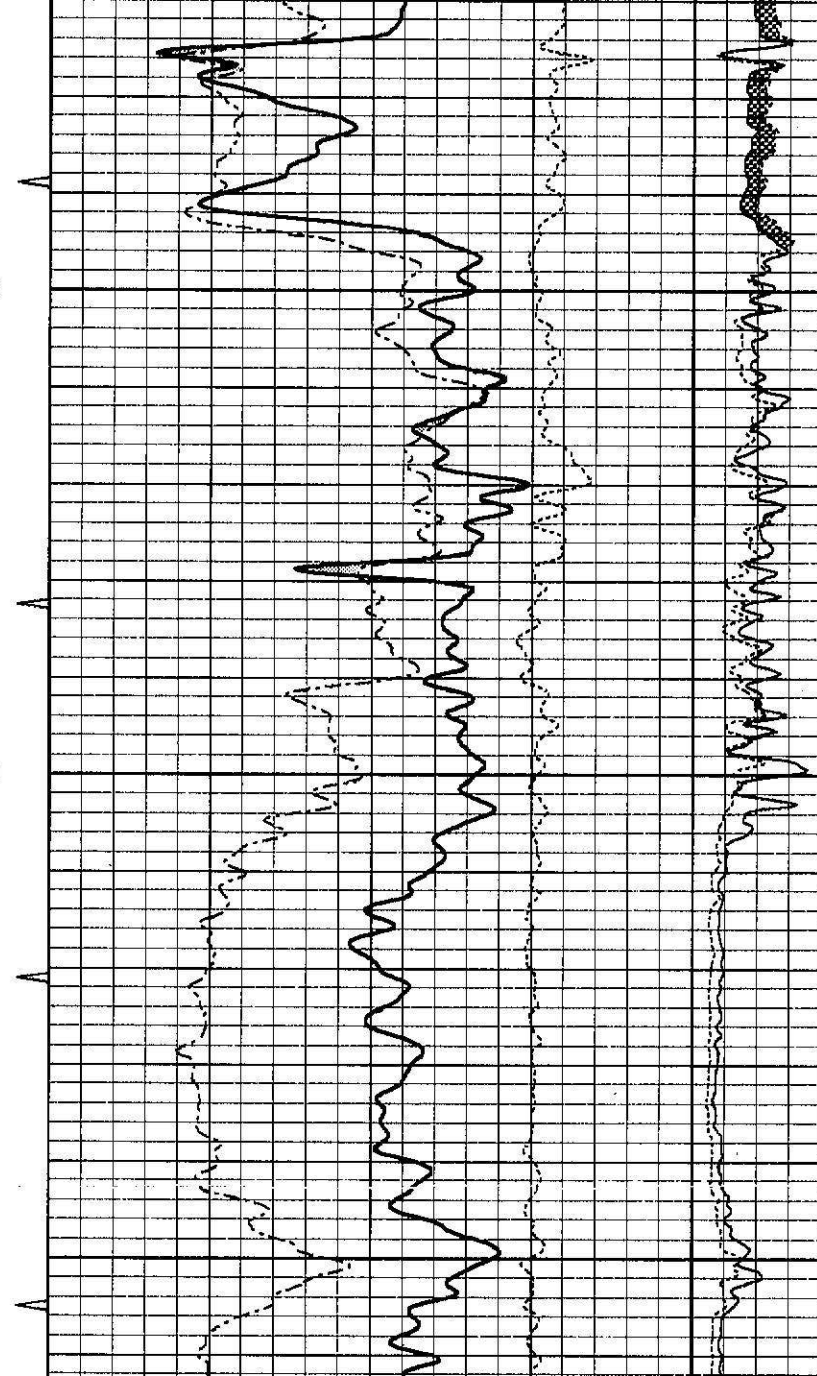
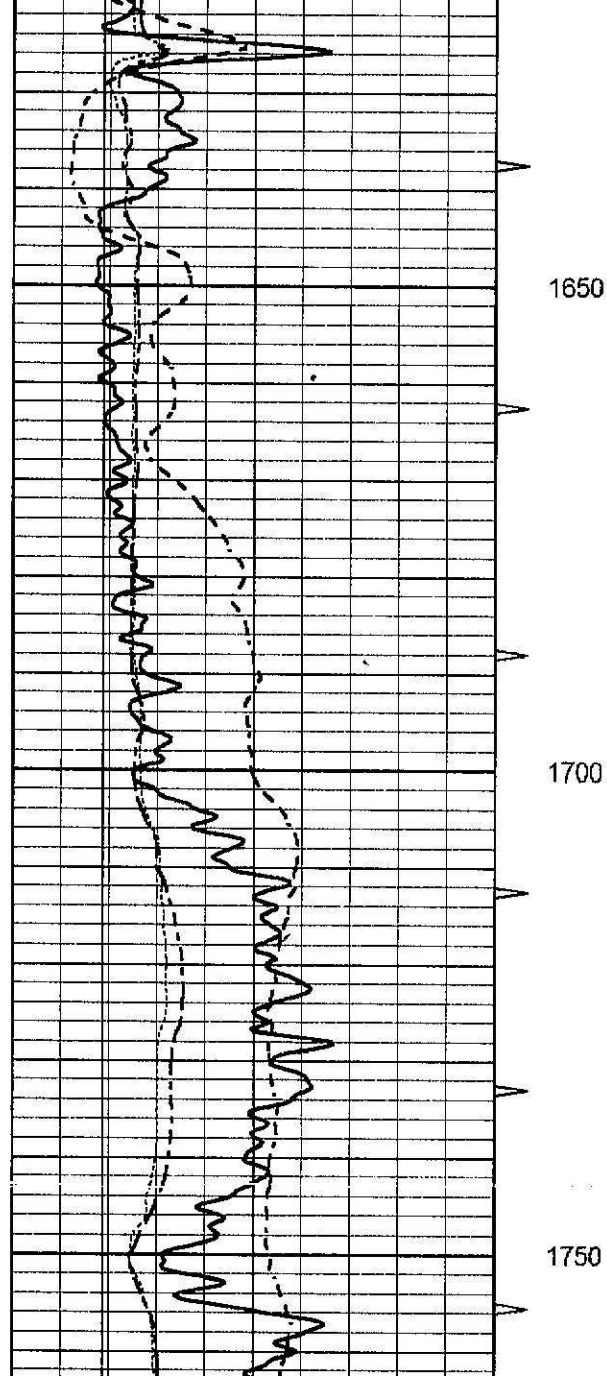
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6	Bit size (in)	16	ABHV	30	Neutron Porosity (pu)	-10	(Ohm-m)	40
6	Density Caliper (in)	16			-0.5 Correction (g/cc)	0.5	Micro Normal	
6	Micro Caliper (in)	16					(Ohm-m)	40
0	SD (m/s)	000						

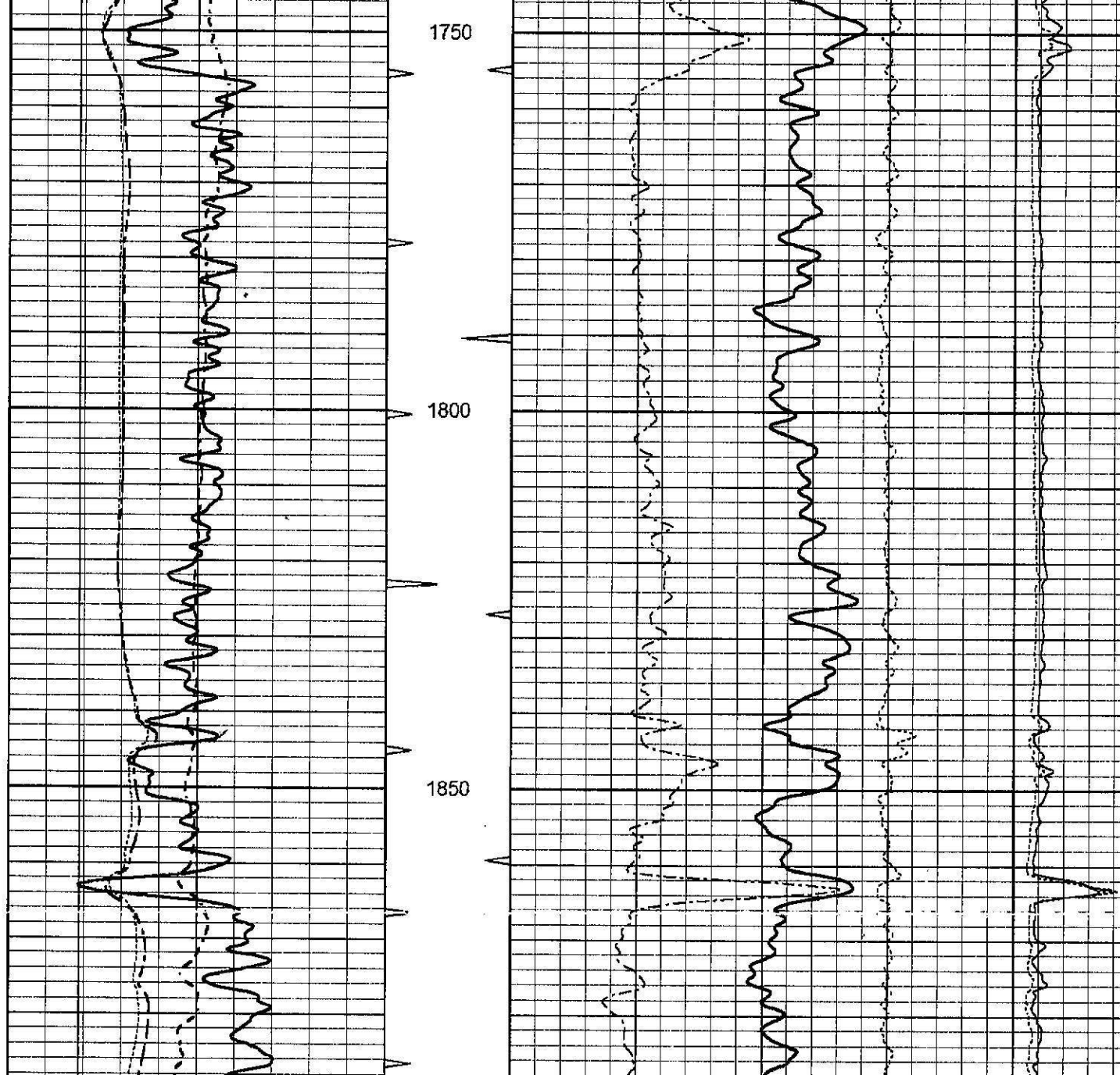
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6	Density Caliper (in)	16				-0.5 Correction (g/cc)	0.5	Micro Normal	
6	Micro Caliper (in)	16						(Ohm-m)	40
0	SP (mV)	200							

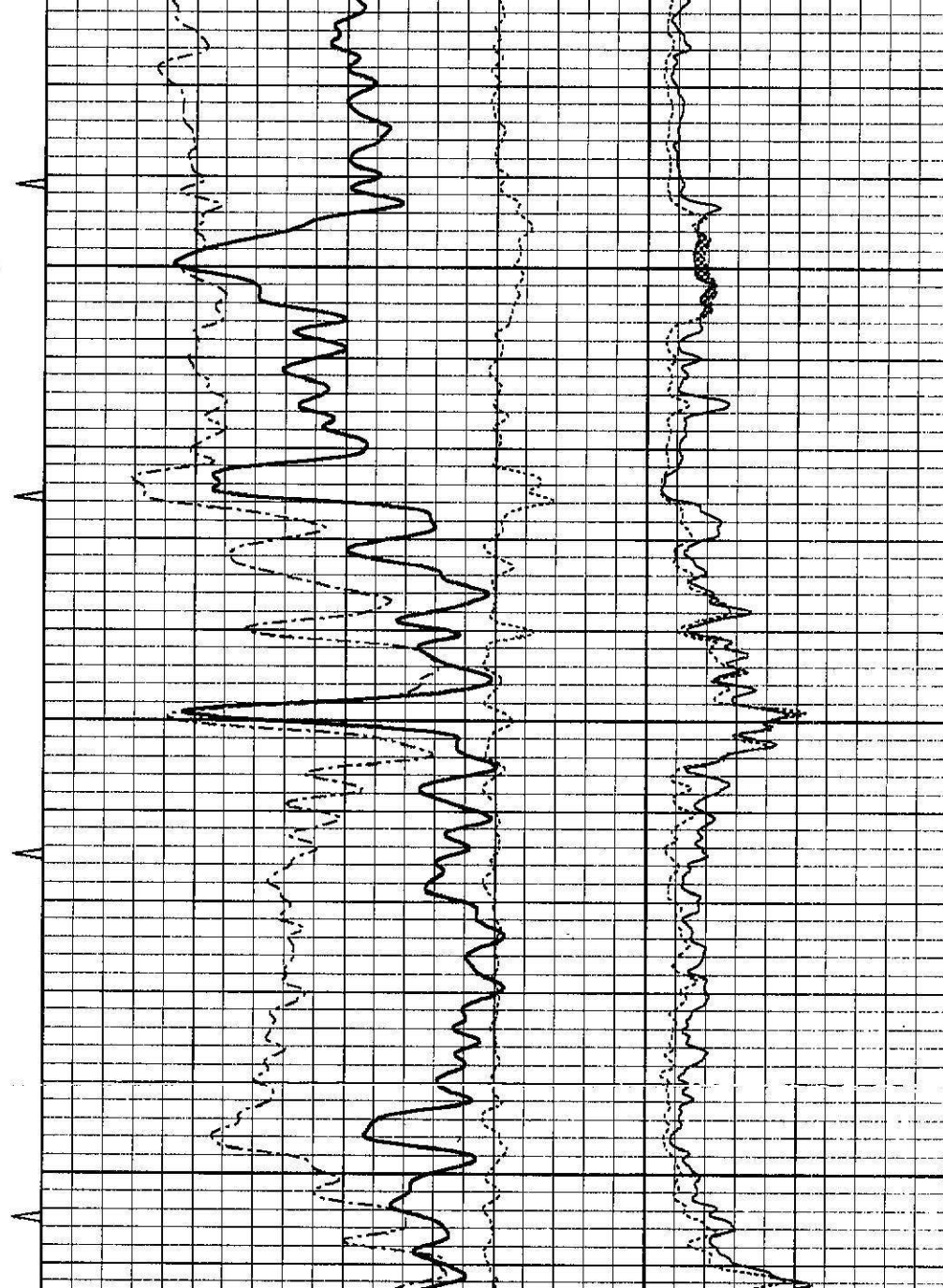
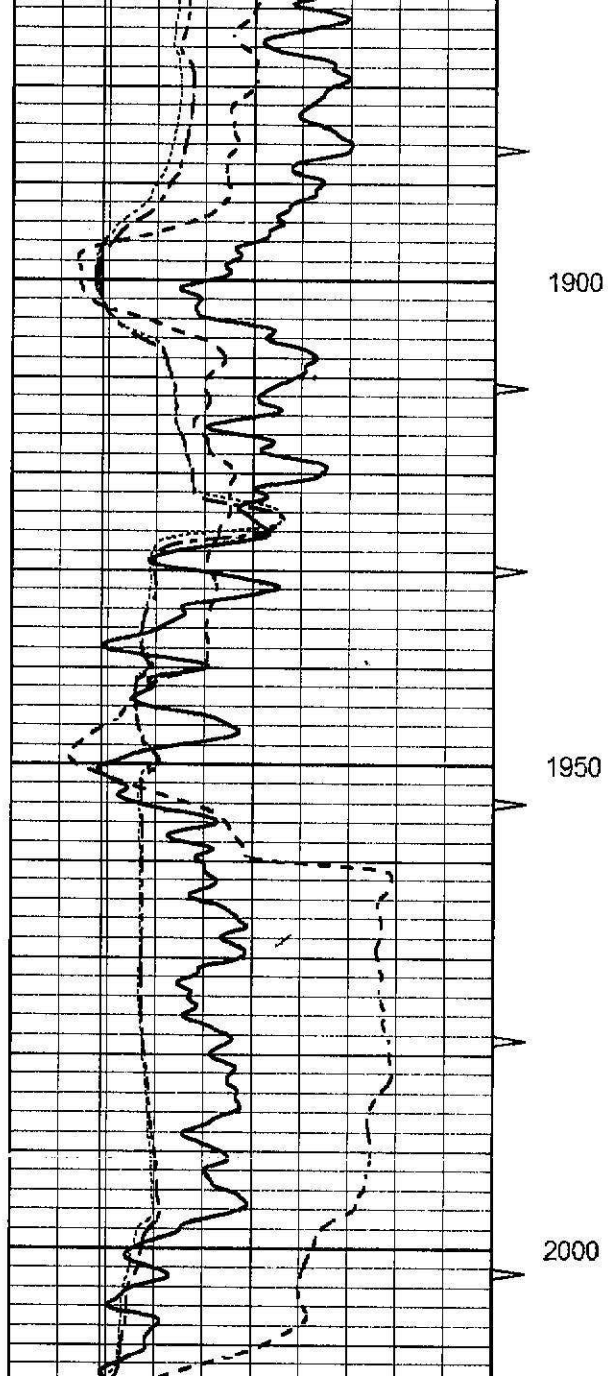


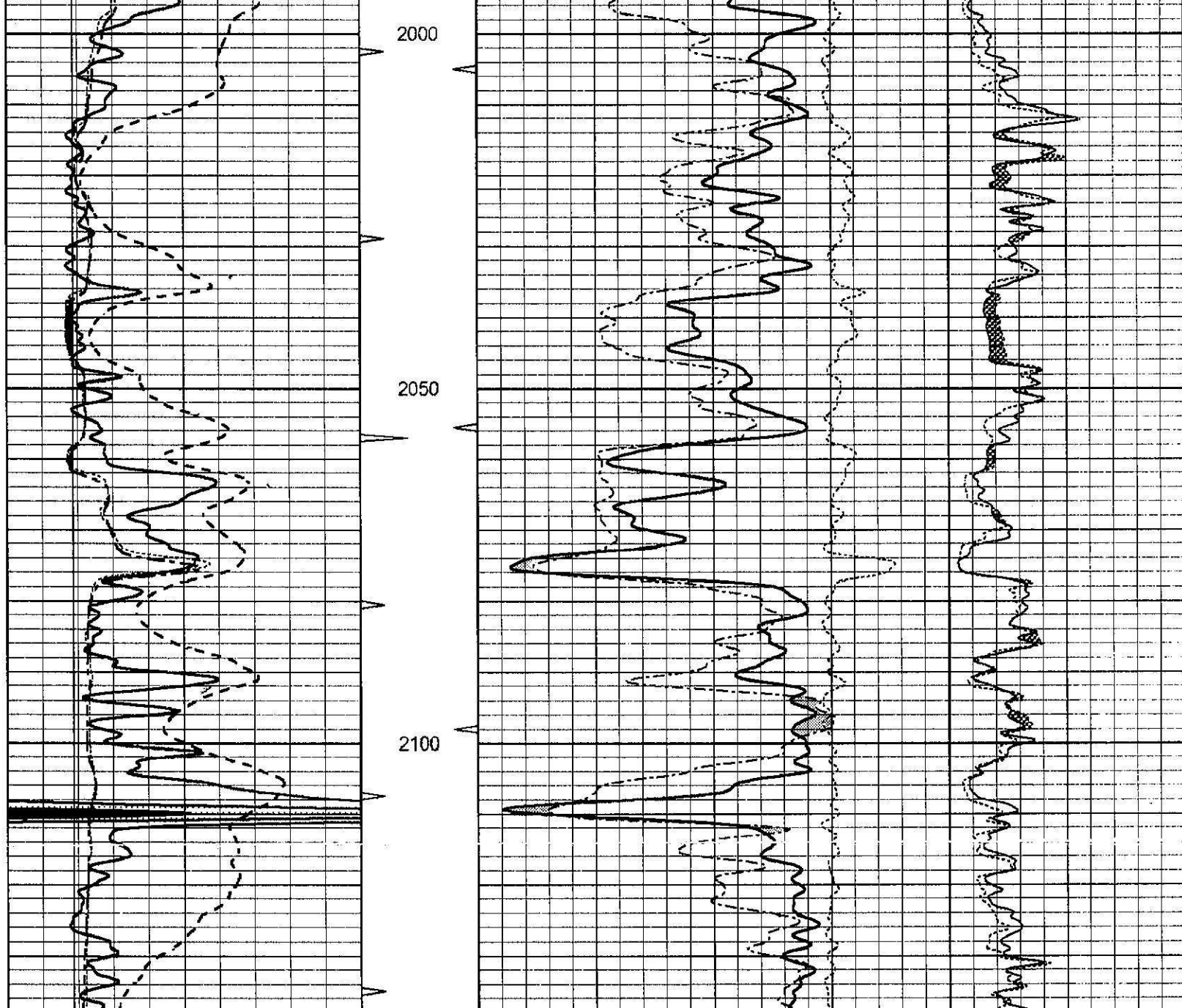


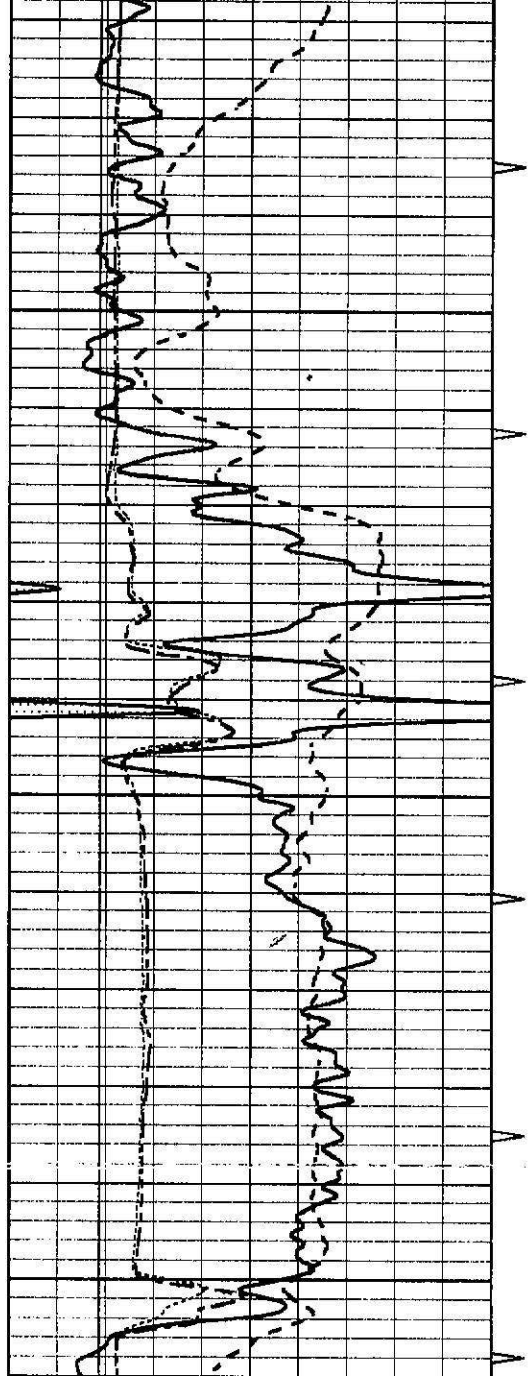








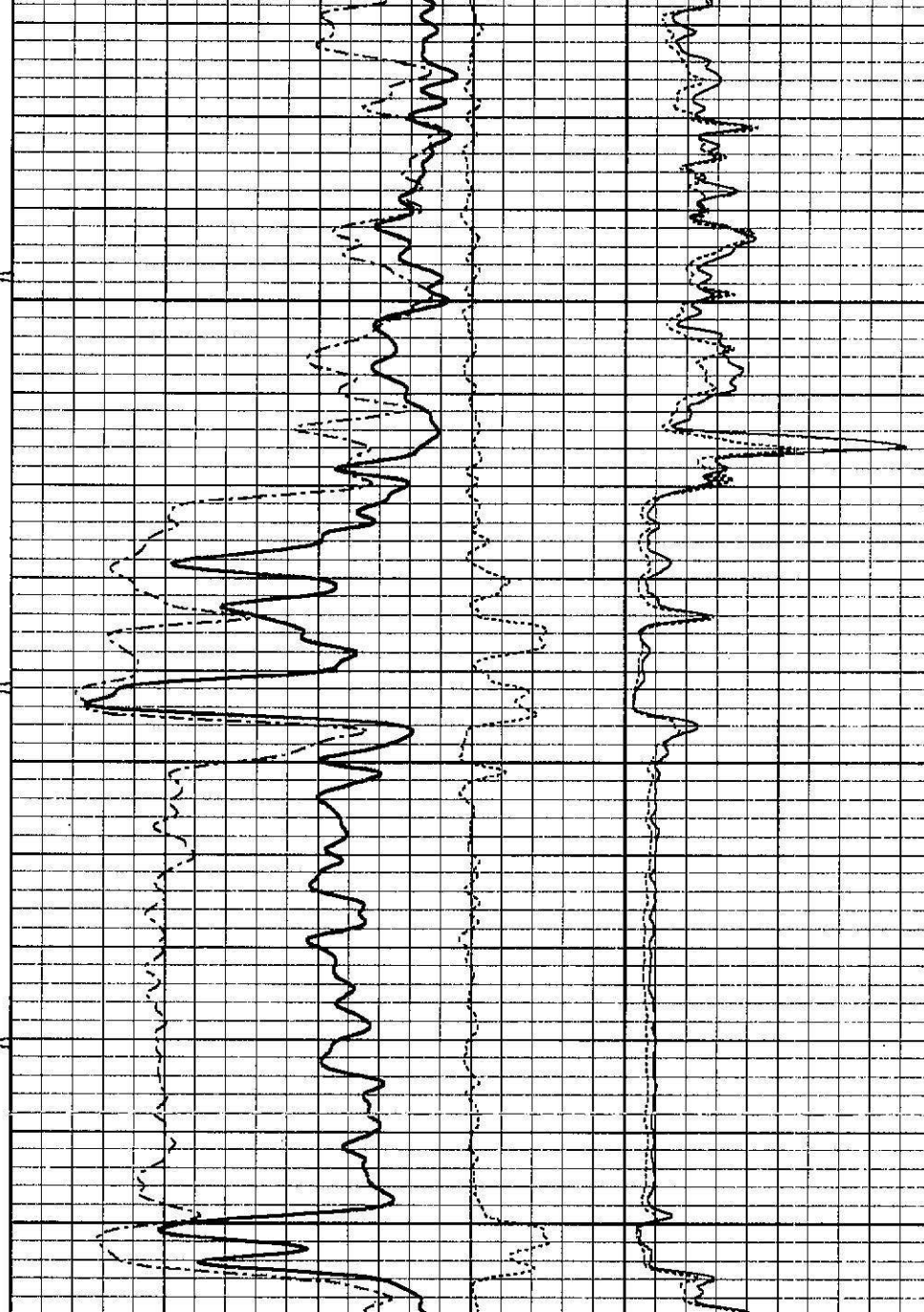


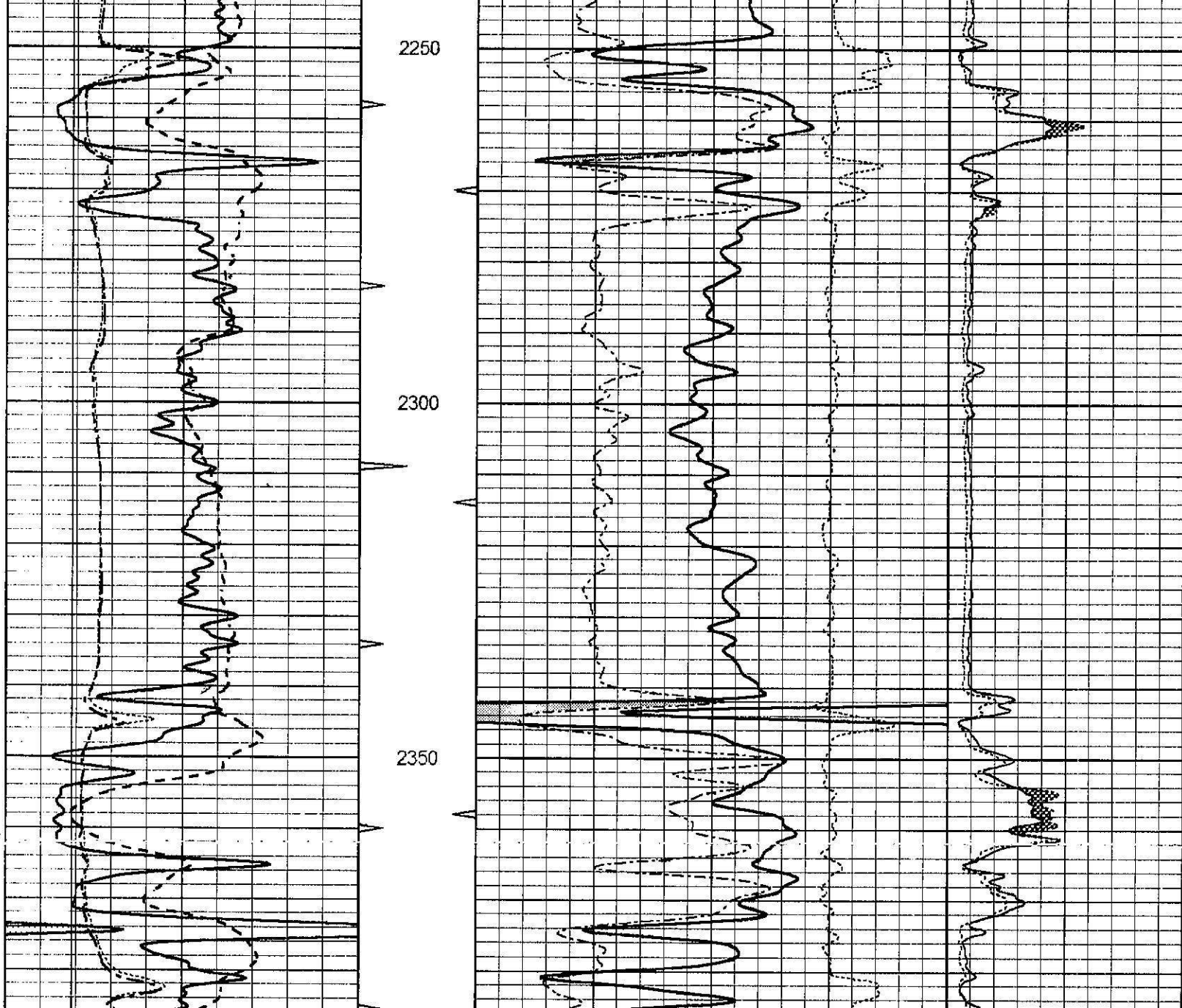


2150

2200

2250

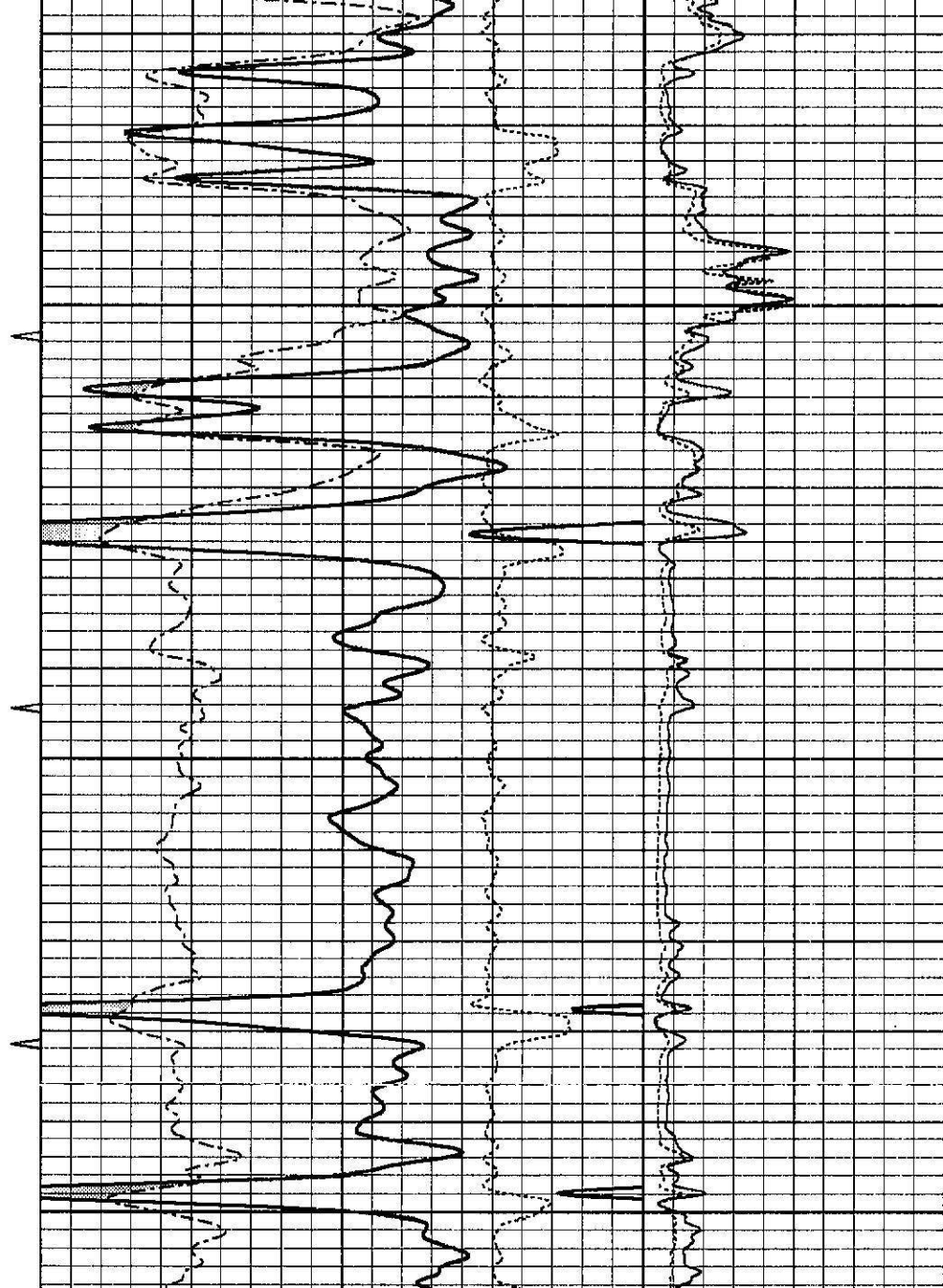
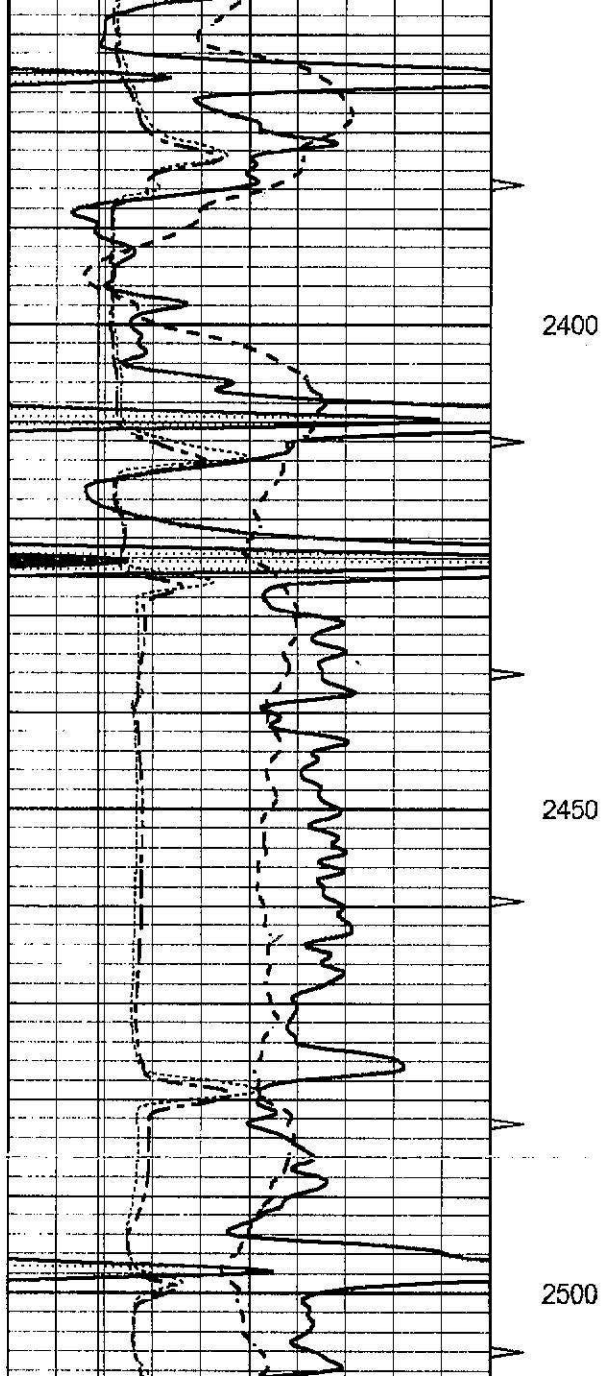


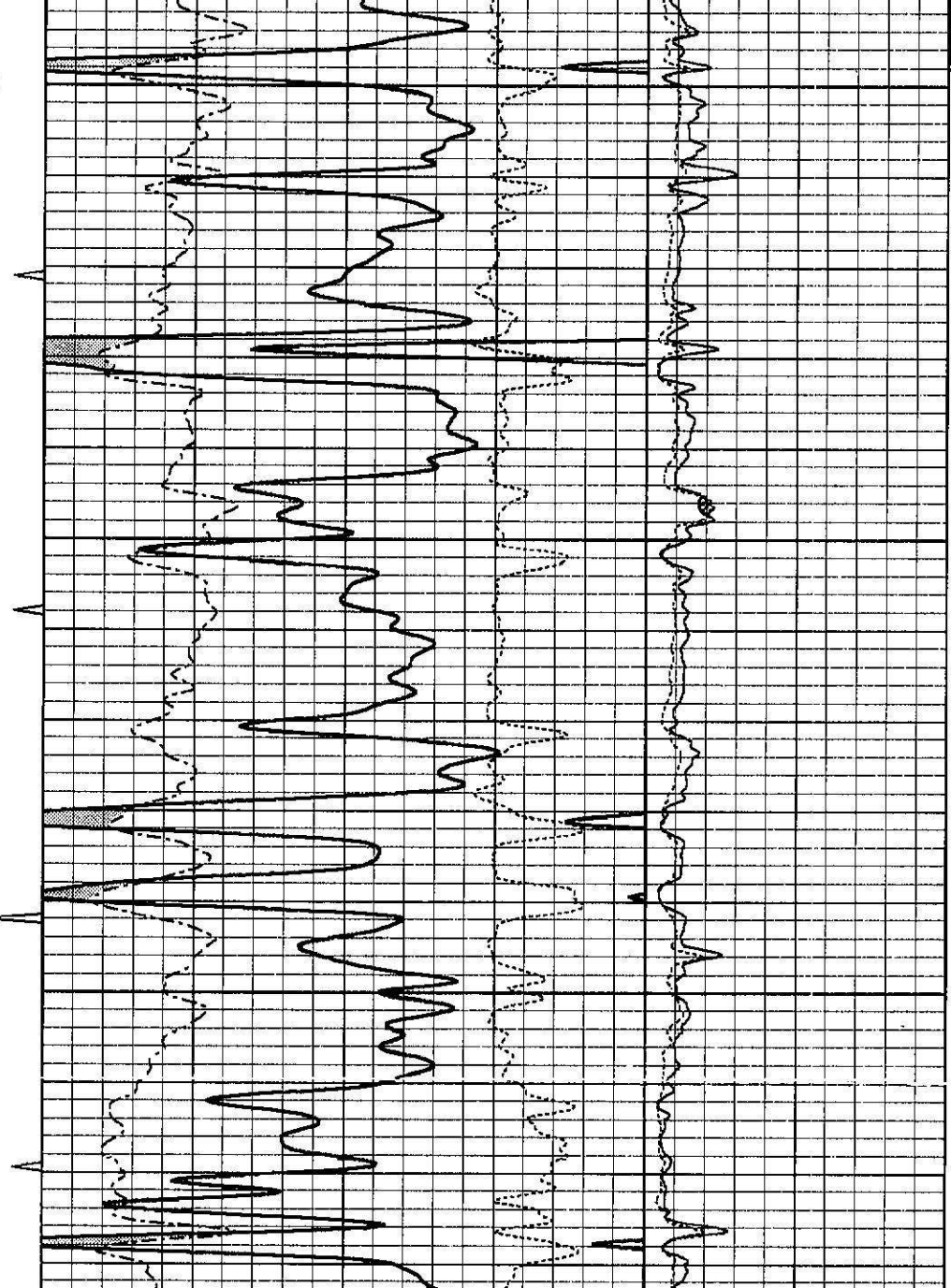
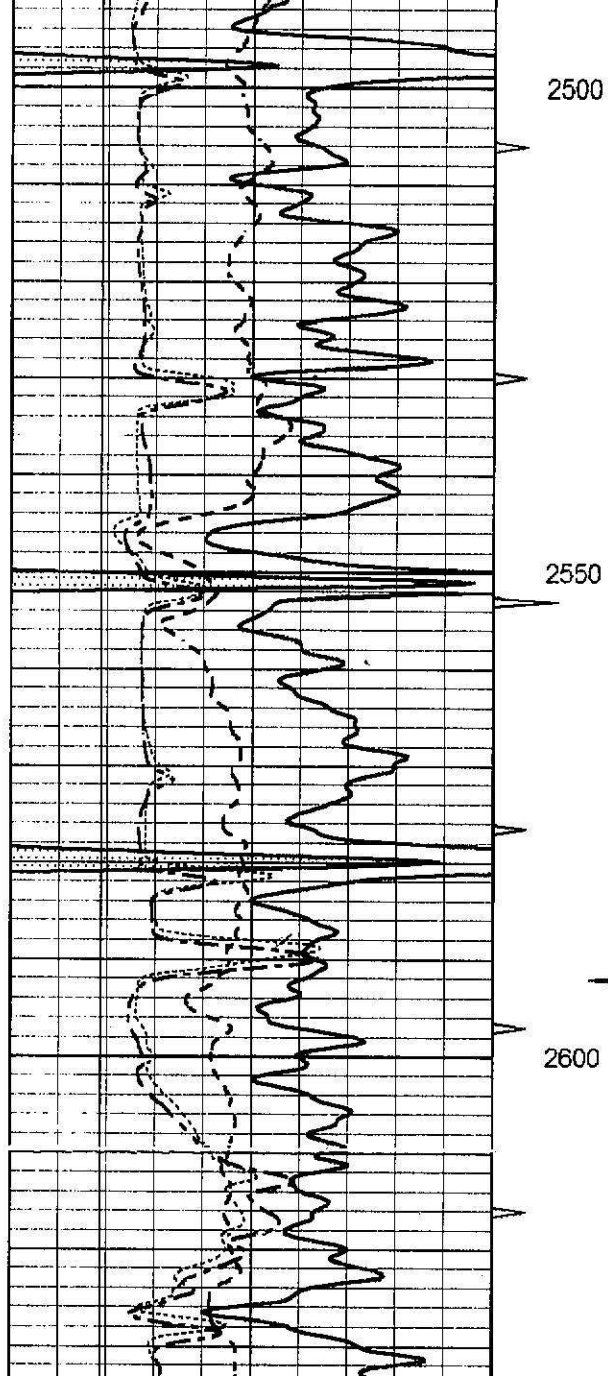


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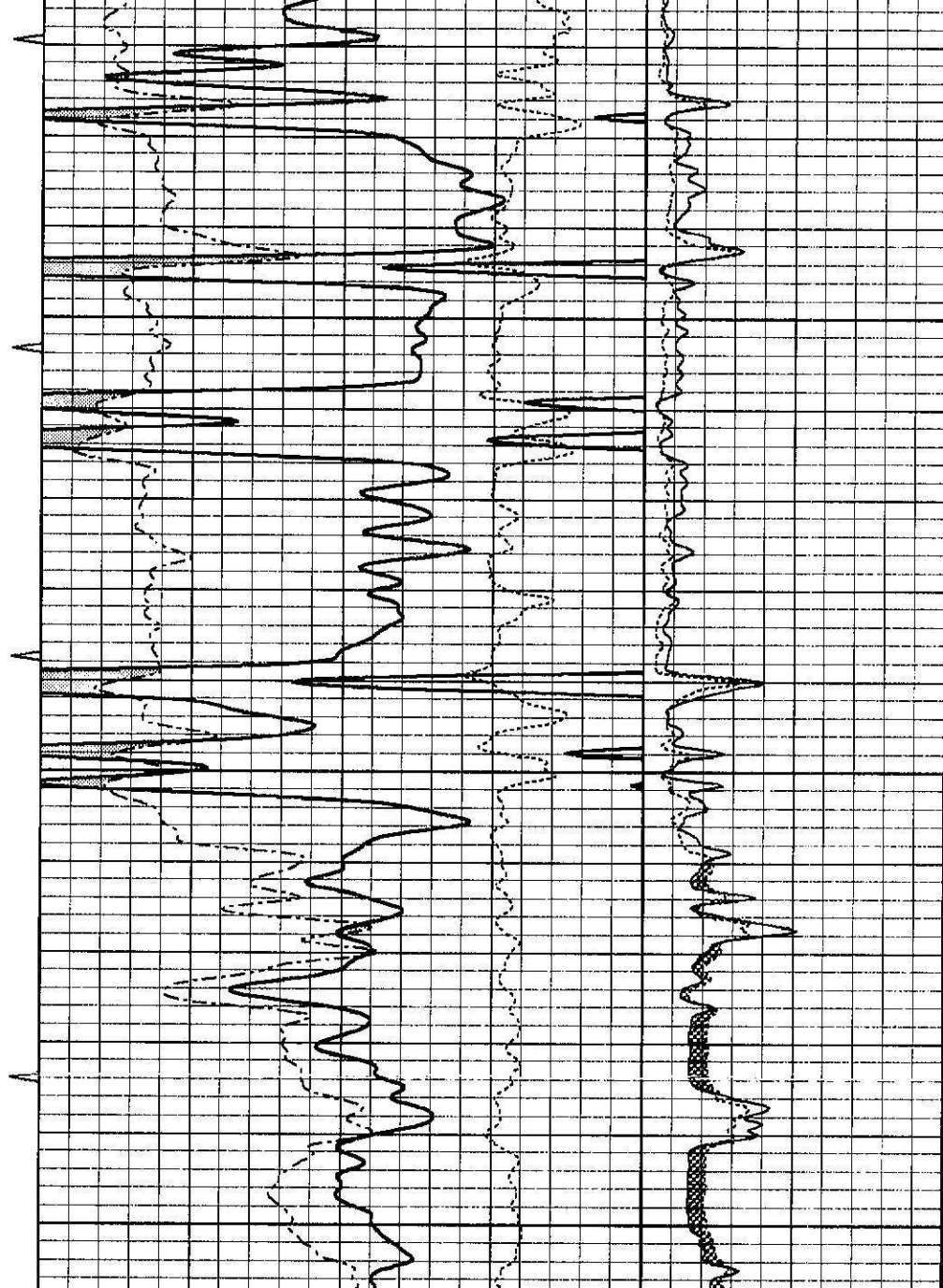
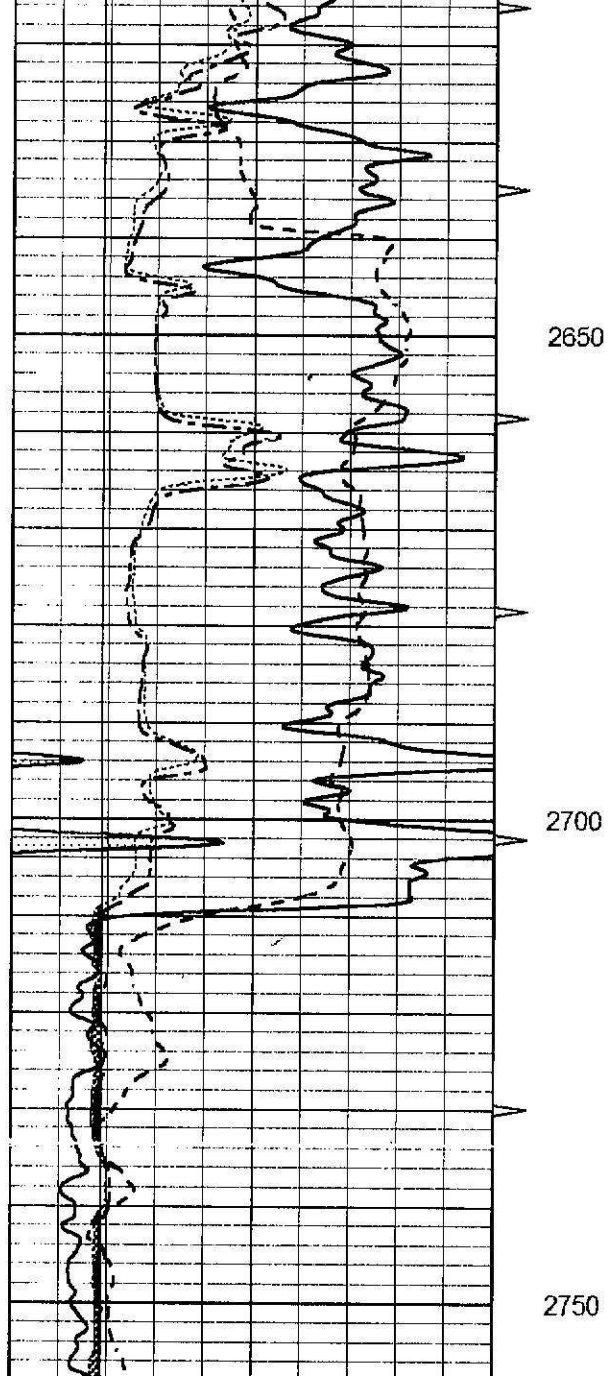
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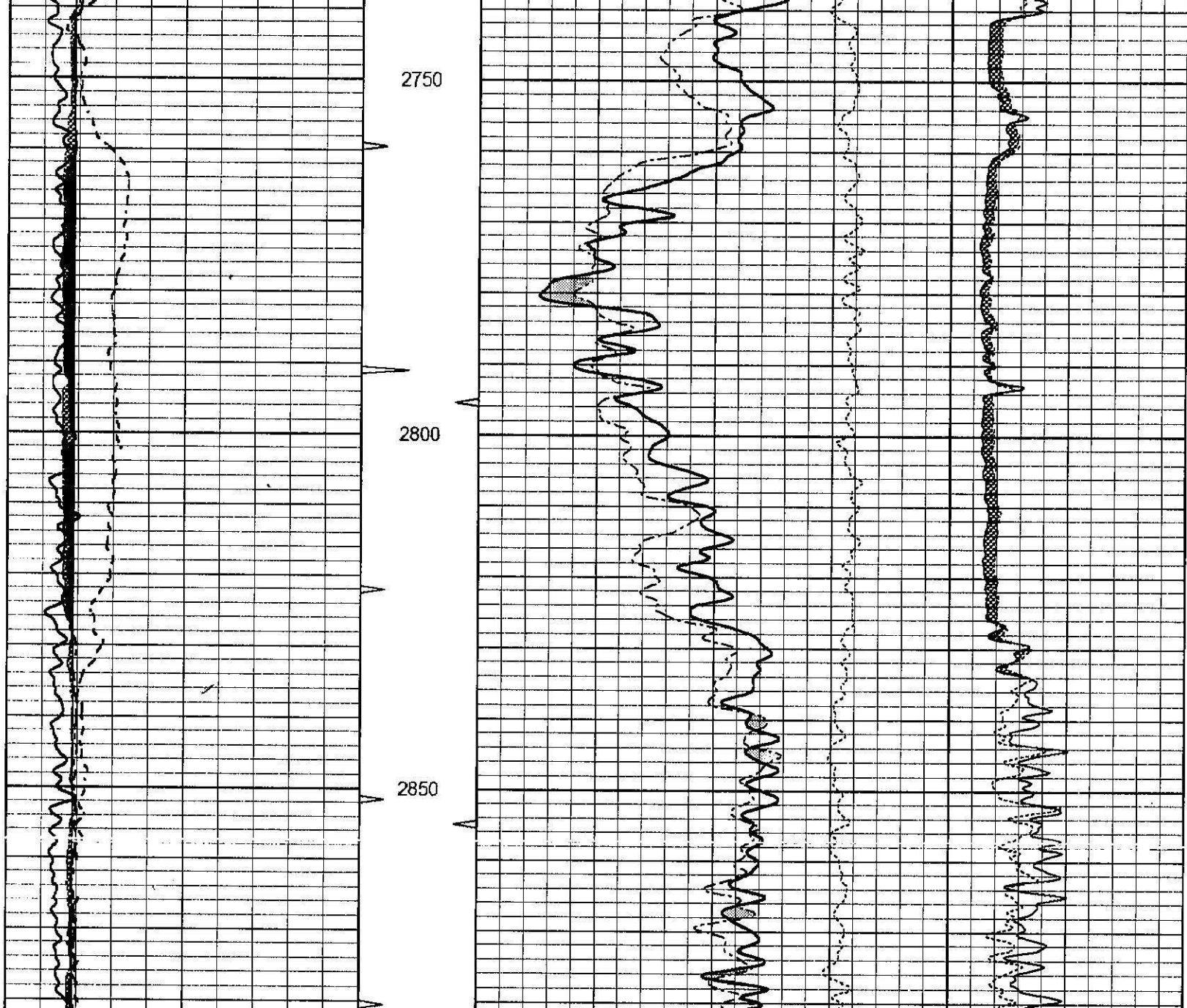
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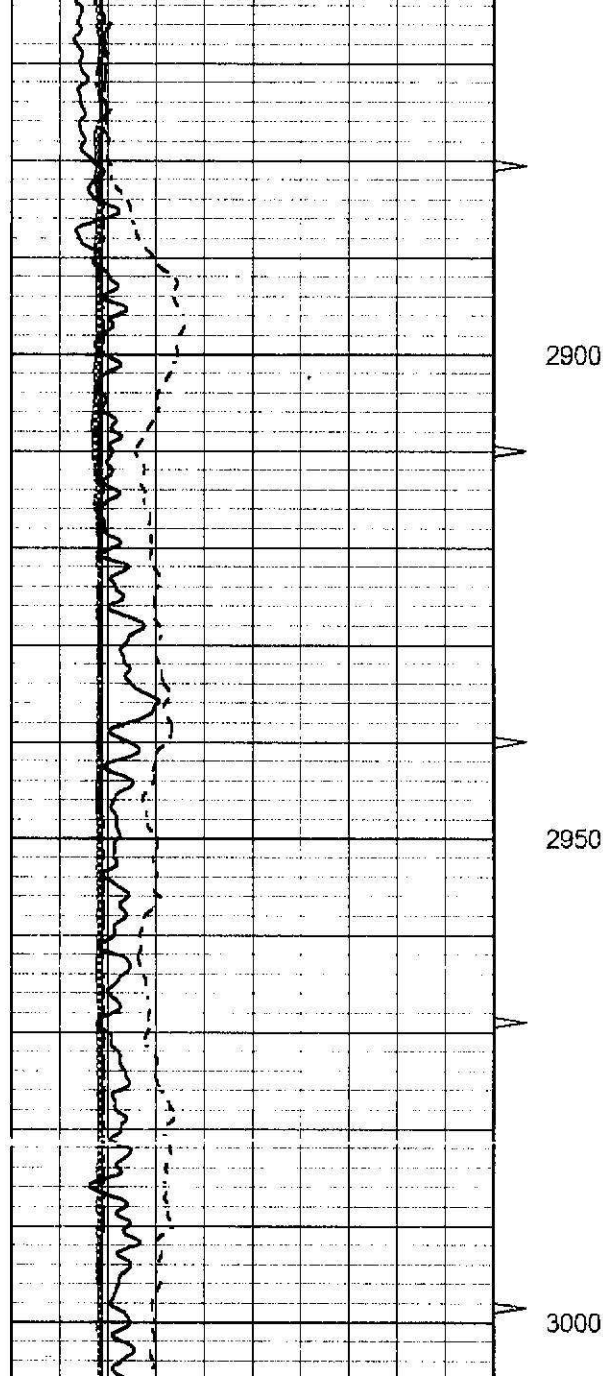








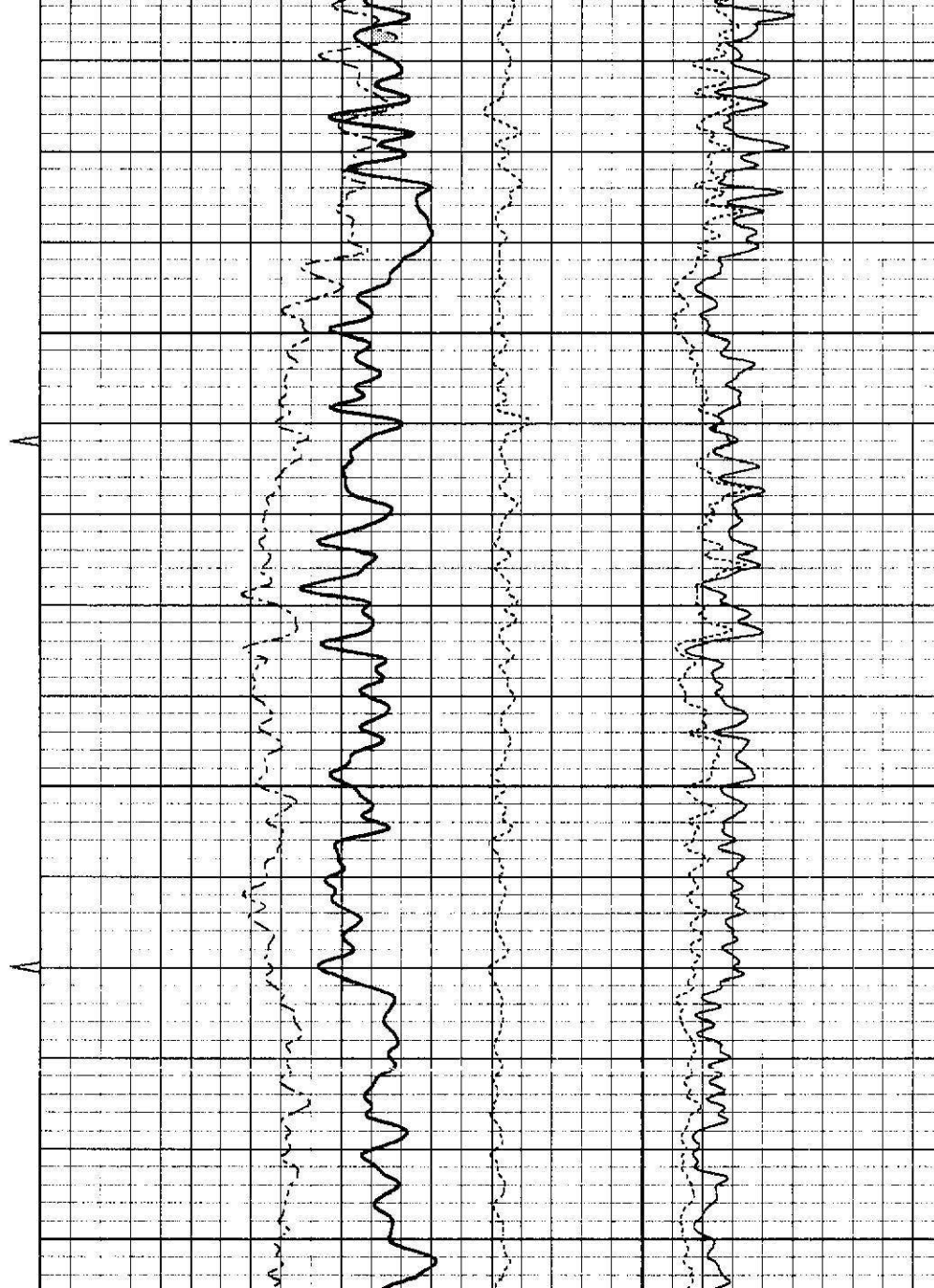


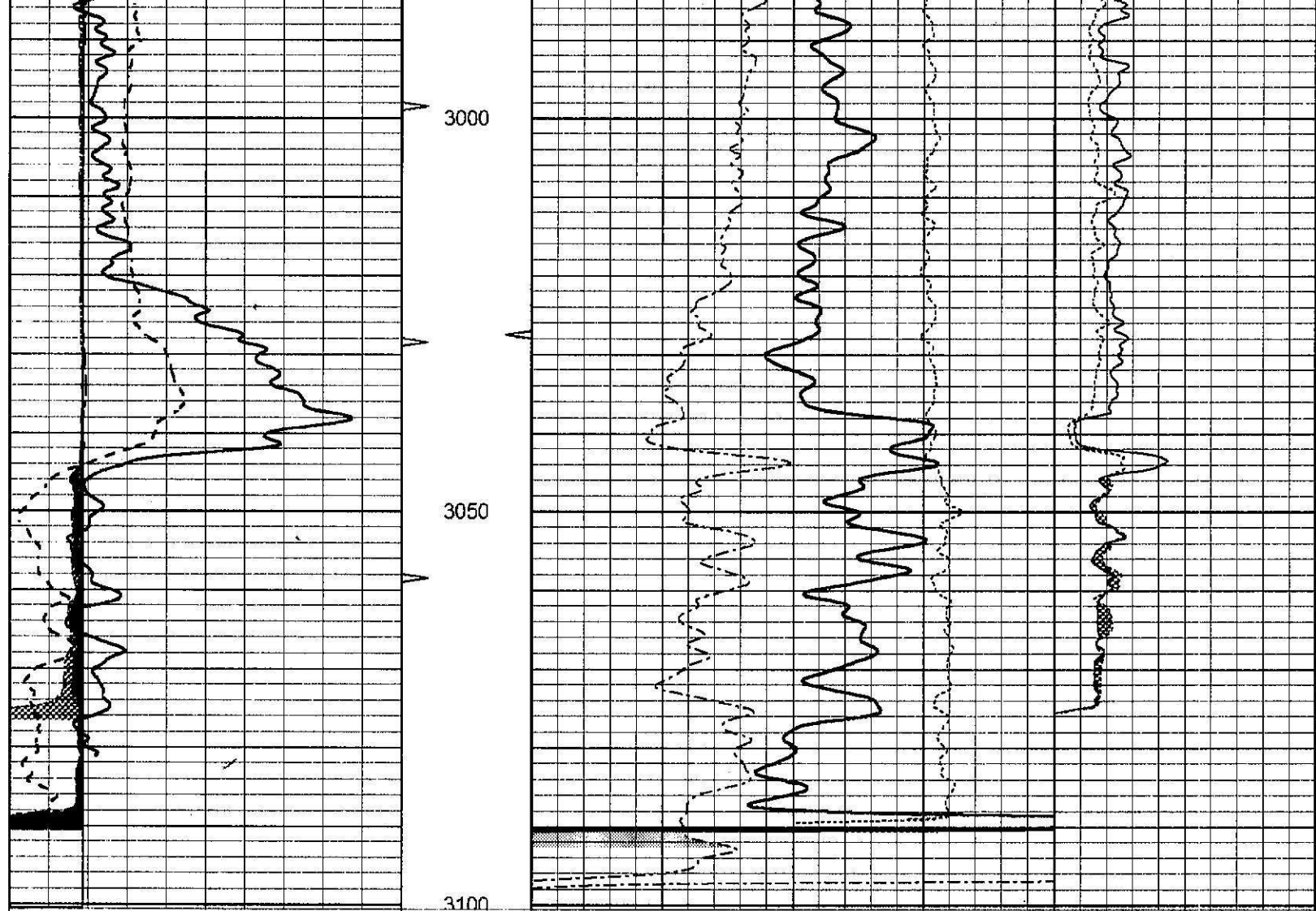


2900

2950

3000





0	Gamma Ray (GAPI)	150	TBHV	30	Density Porosity (pu)	-10	Micro Inverse	
6	Bit size (in)	16	ABHV	30	Neutron Porosity (pu)	-10	(Ohm-m)	40
6	Density Caliper (in)	16			-0.5 Correction (g/cc)	0.5	Micro Normal	
6	Micro Caliper (in)	16					(Ohm-m)	40
0	SP (mV)	200						

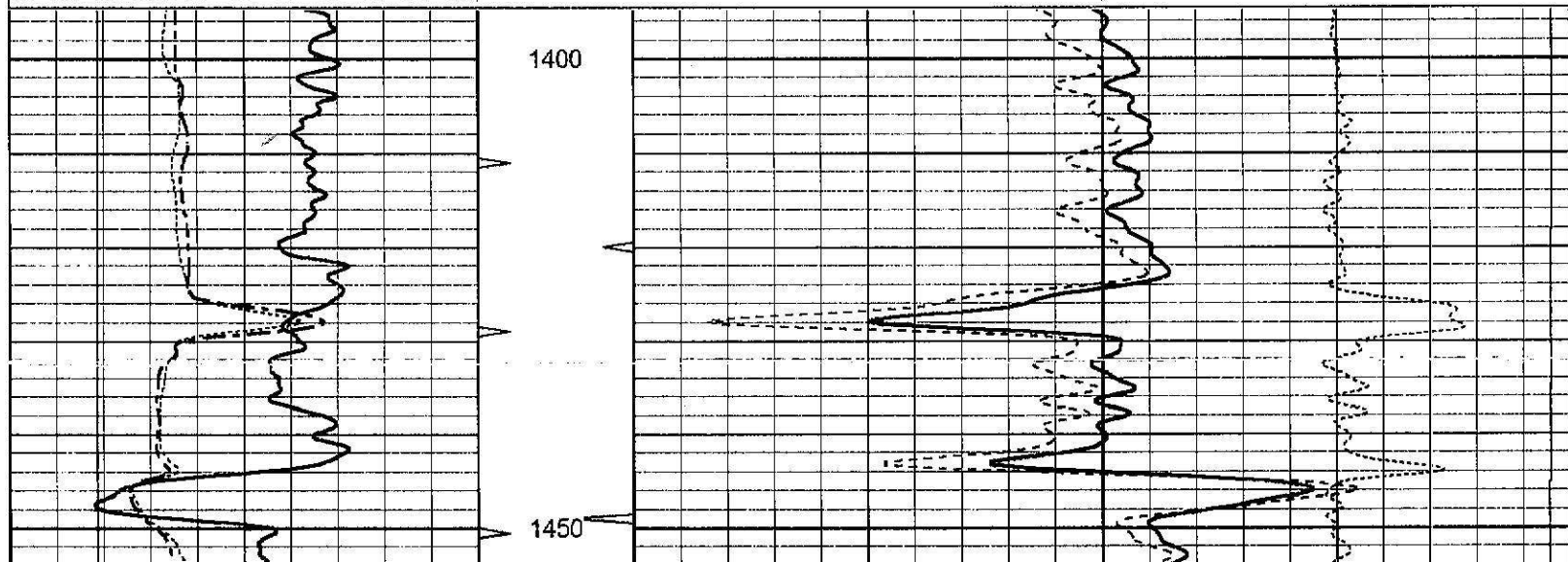
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6	Density Caliper (in)	16			-0.5 Correction (g/cc)	0.5	Micro Normal	
6	Micro Caliper (in)	16					0	(Ohm-m) 40
0	SP (mV)	200						

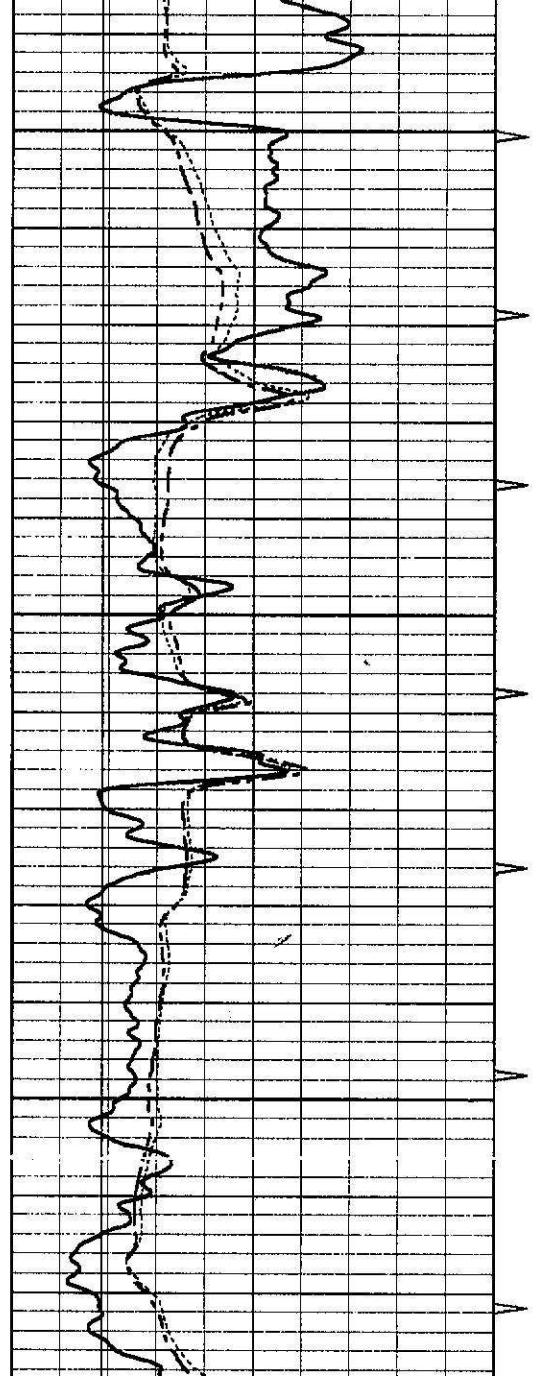


# 5" CDL SECTION

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 Charted by            Depth in Feet scaled 1:240

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6	Neutron Caliper (in)	16			5000 Line Tension (lb)	500

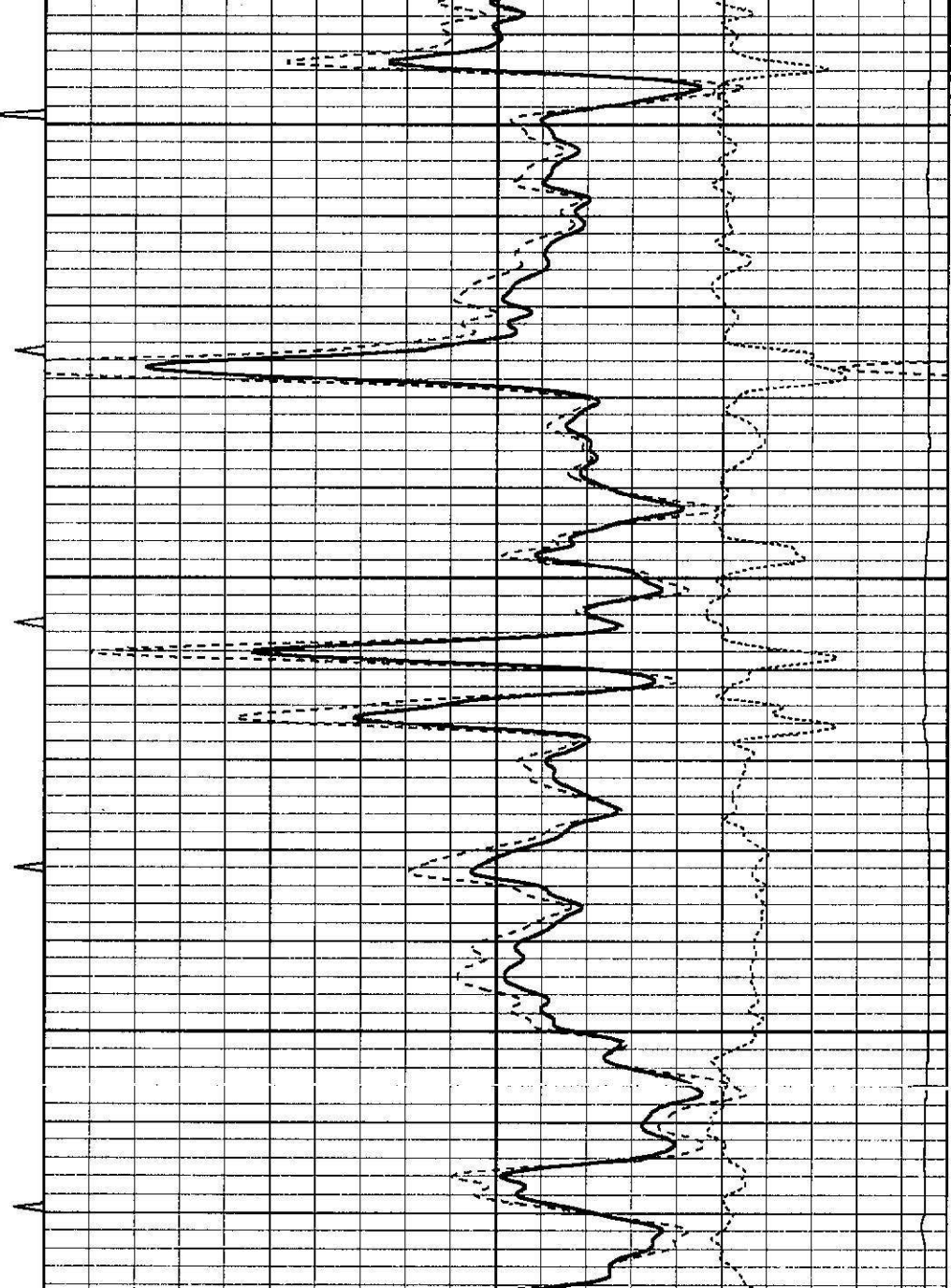


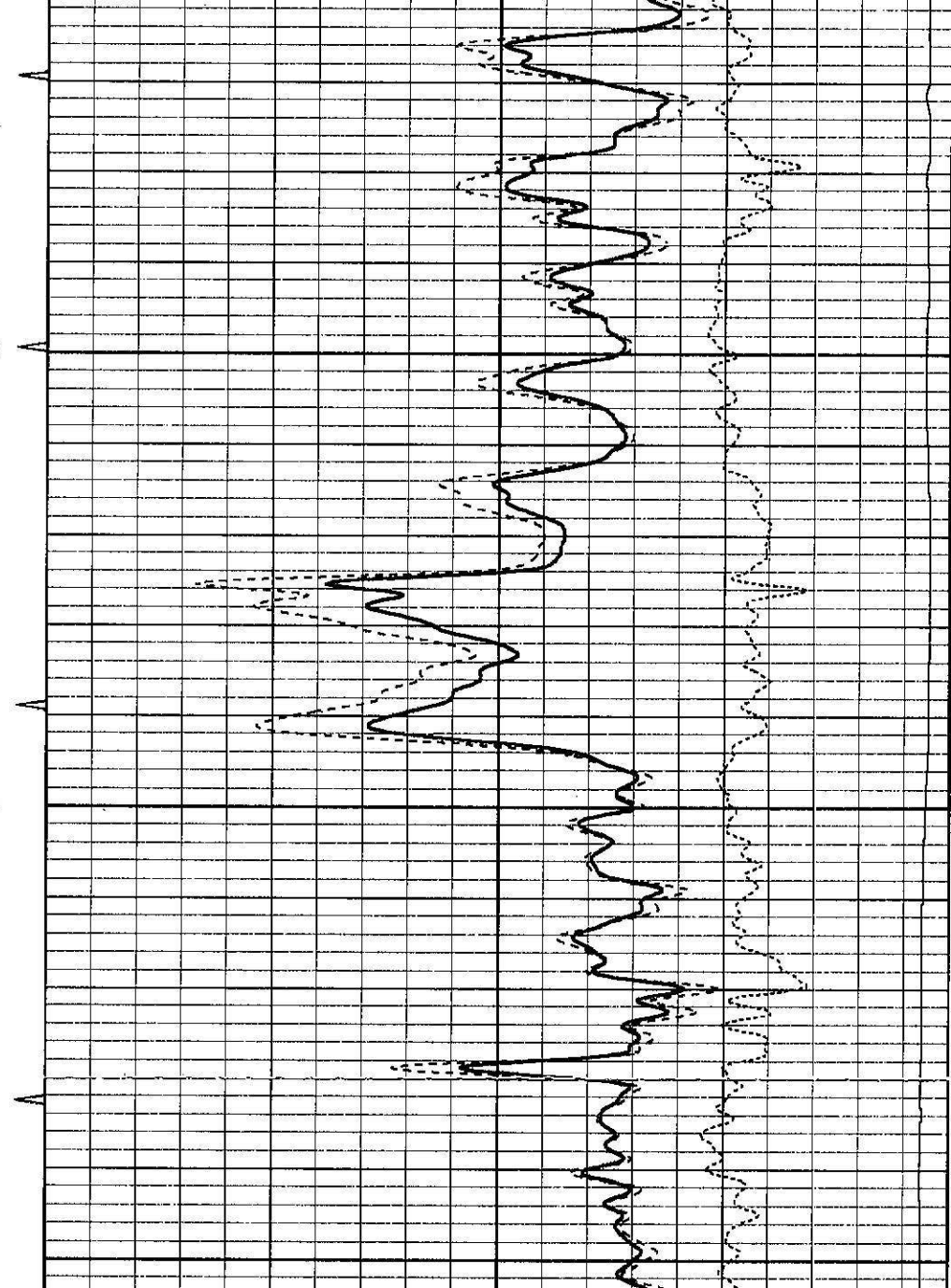
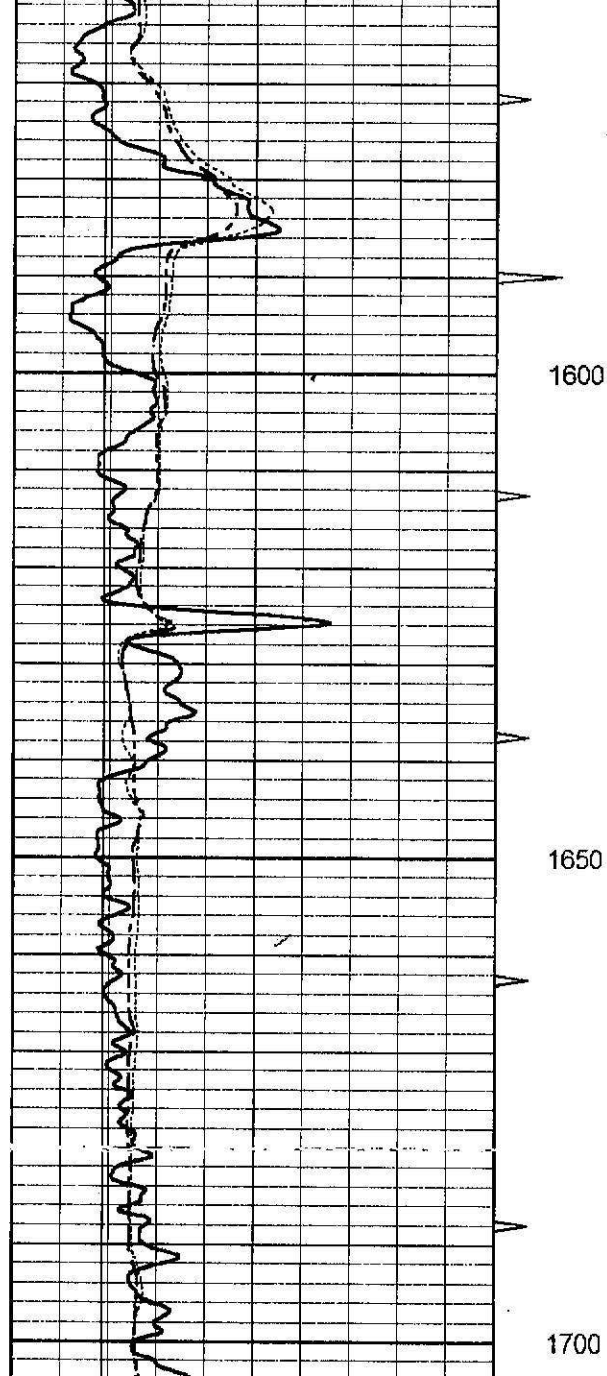


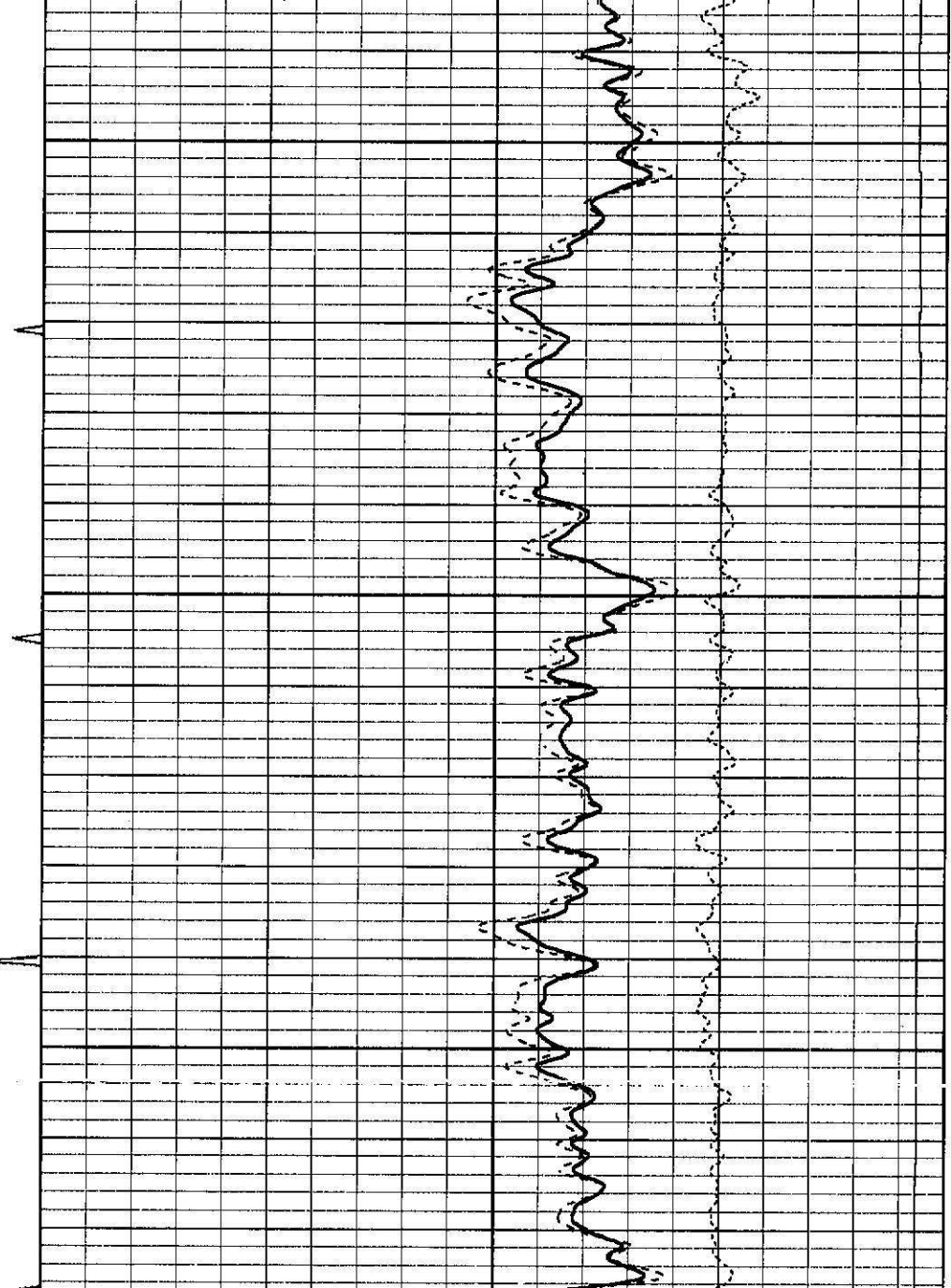
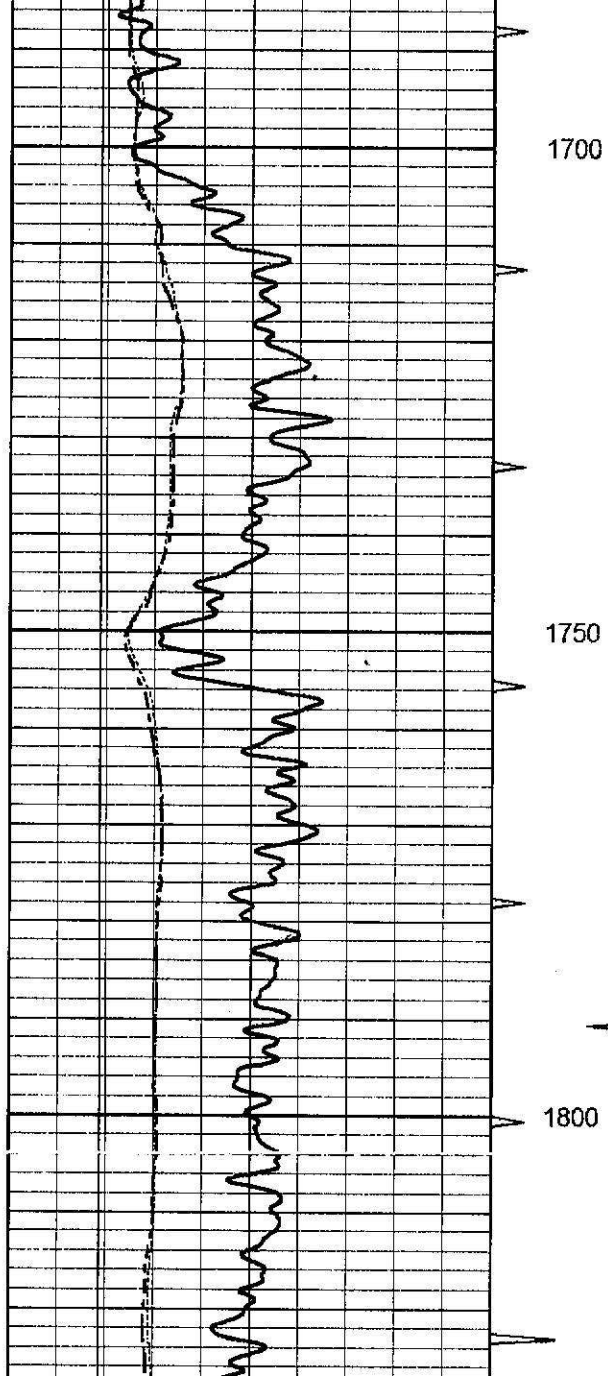
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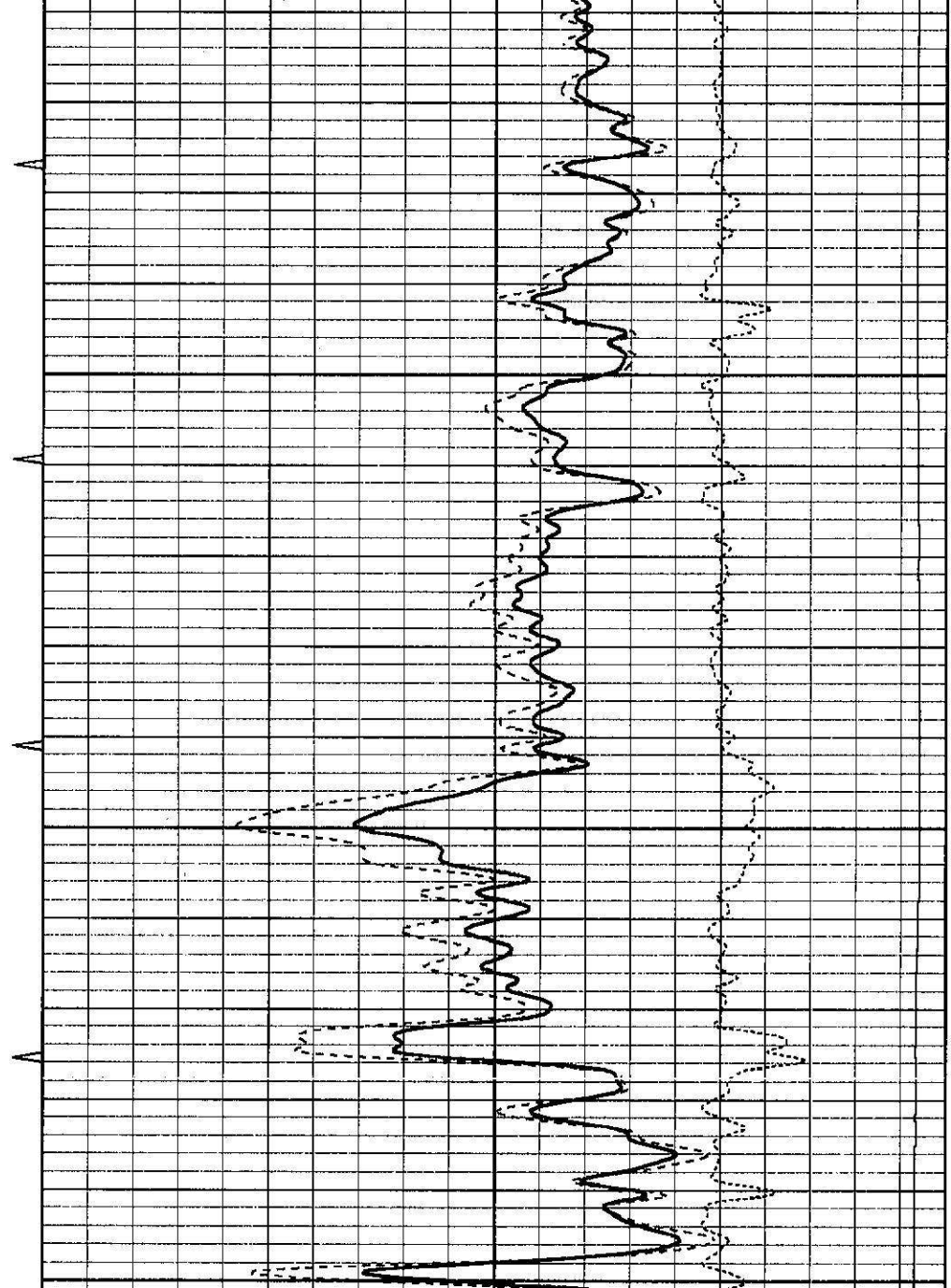
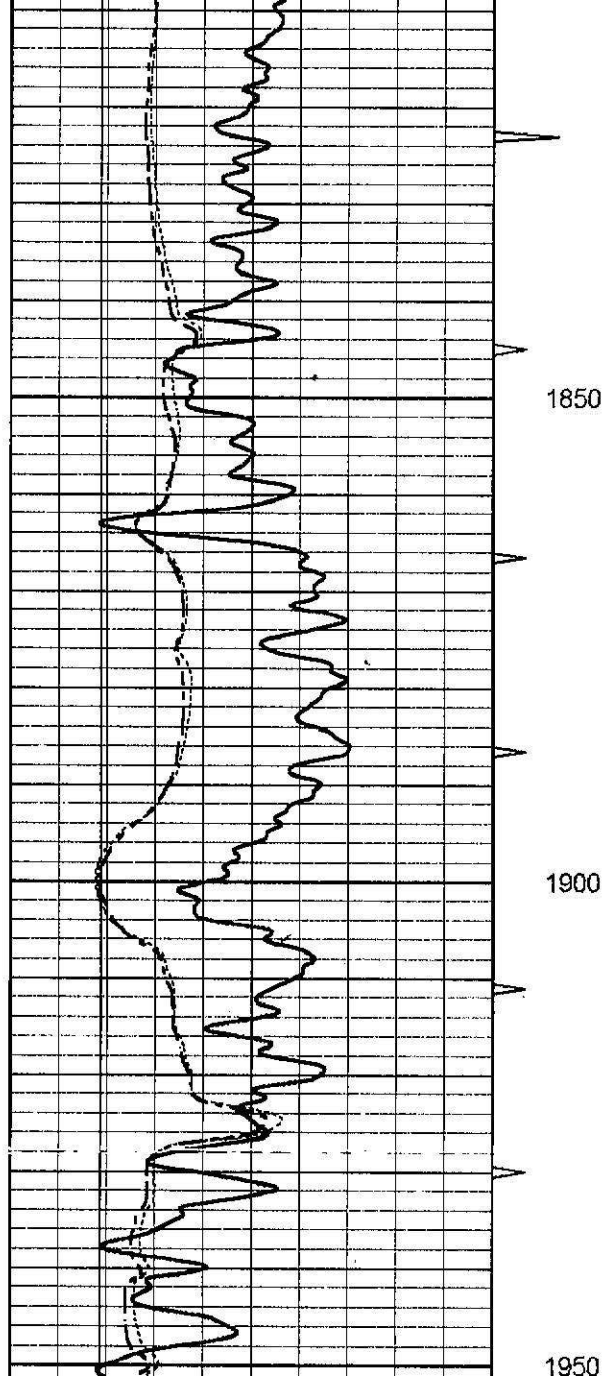
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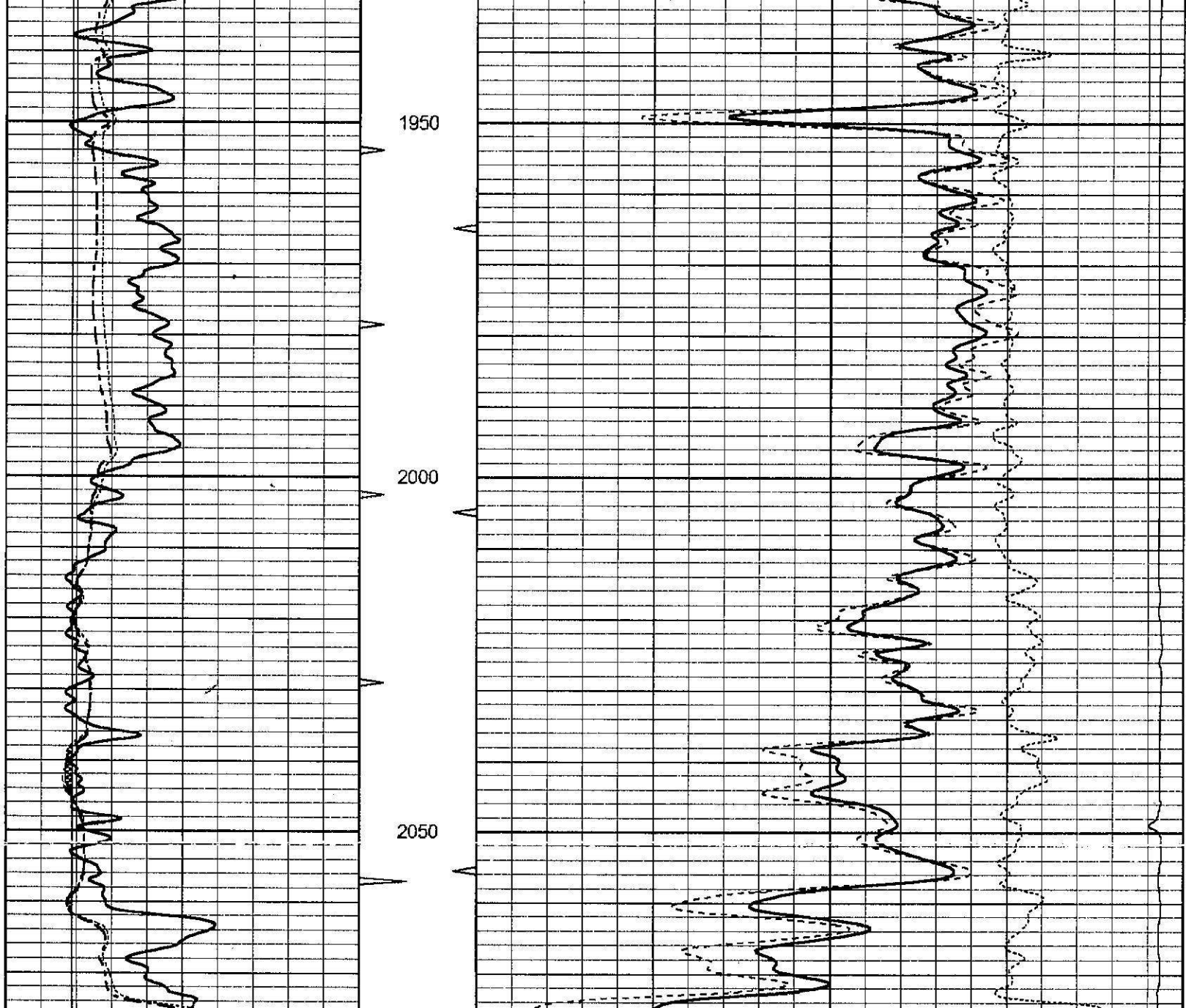


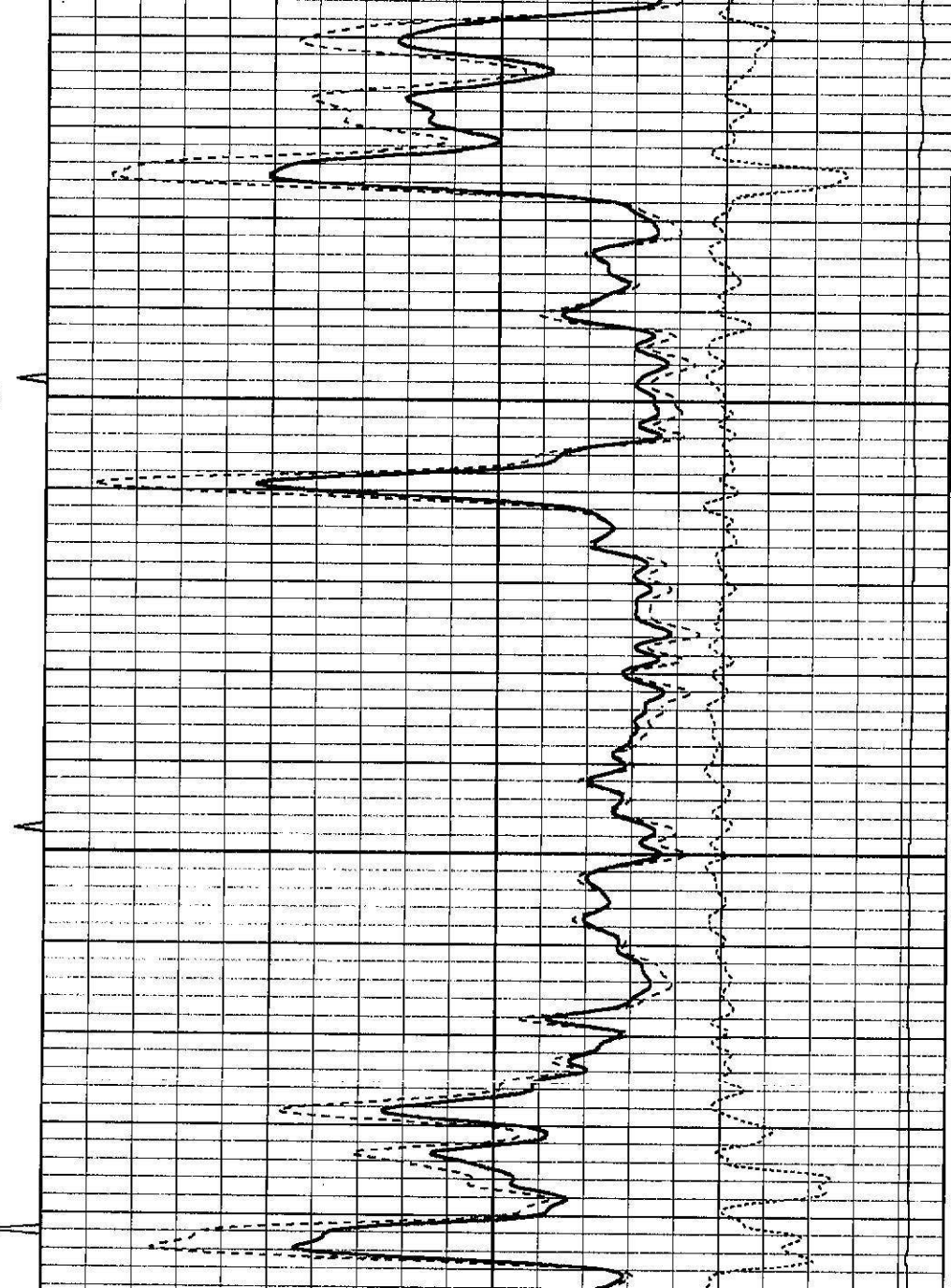
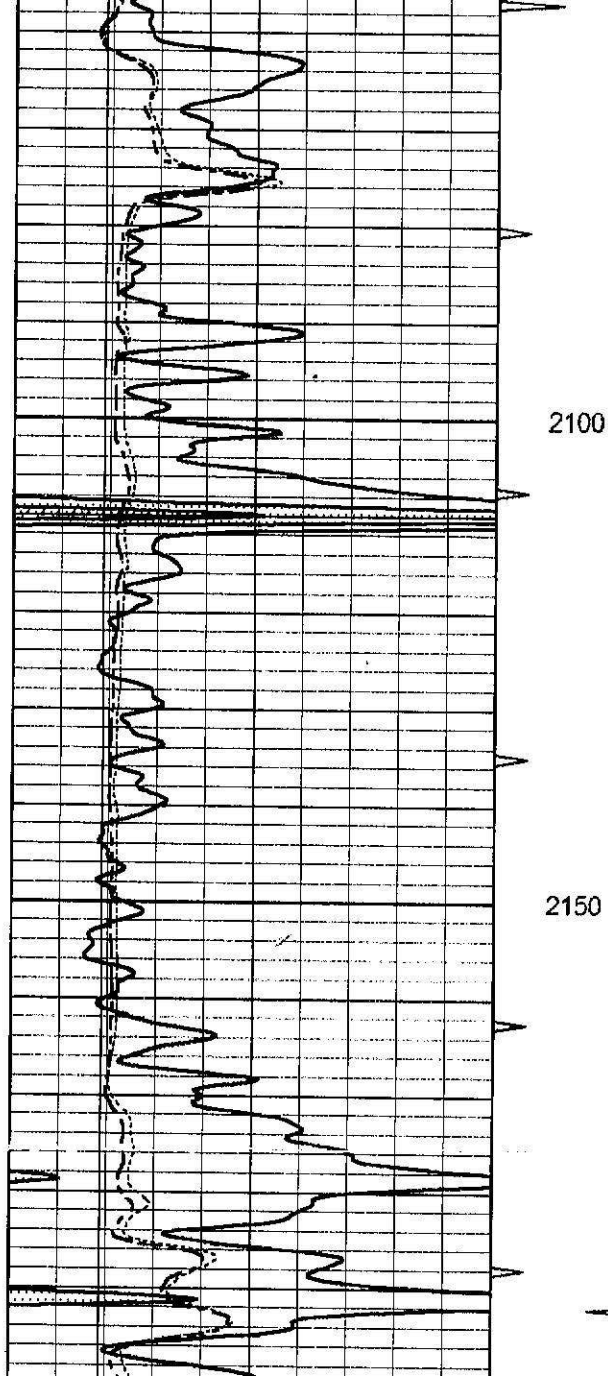


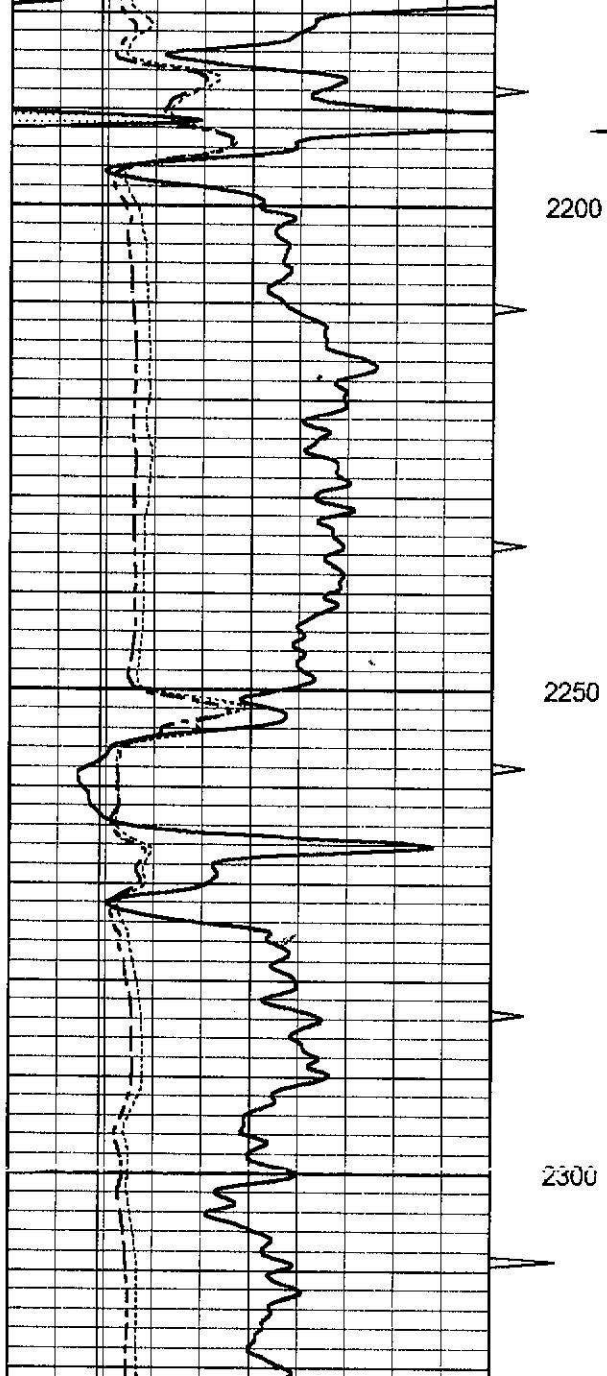








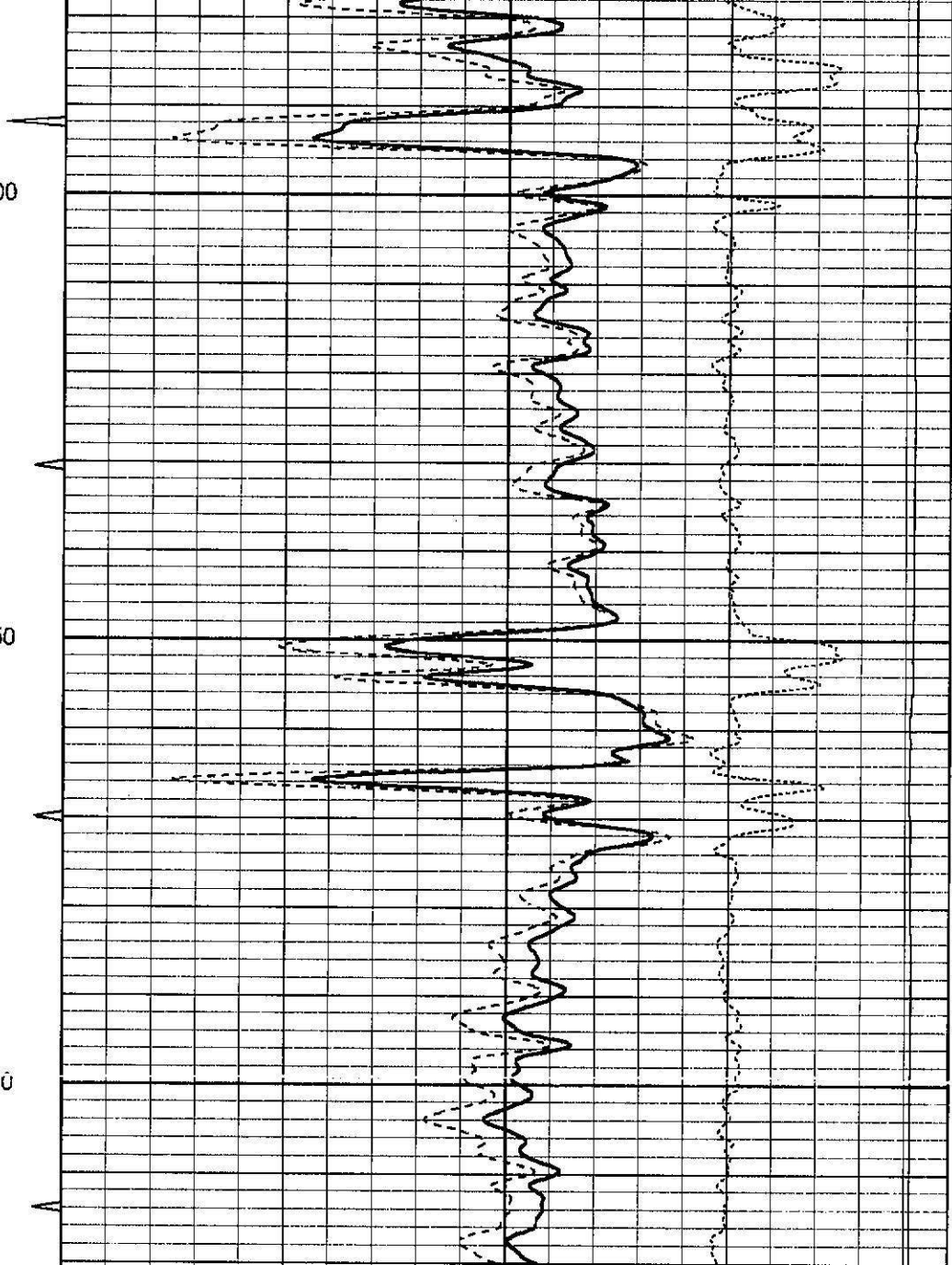


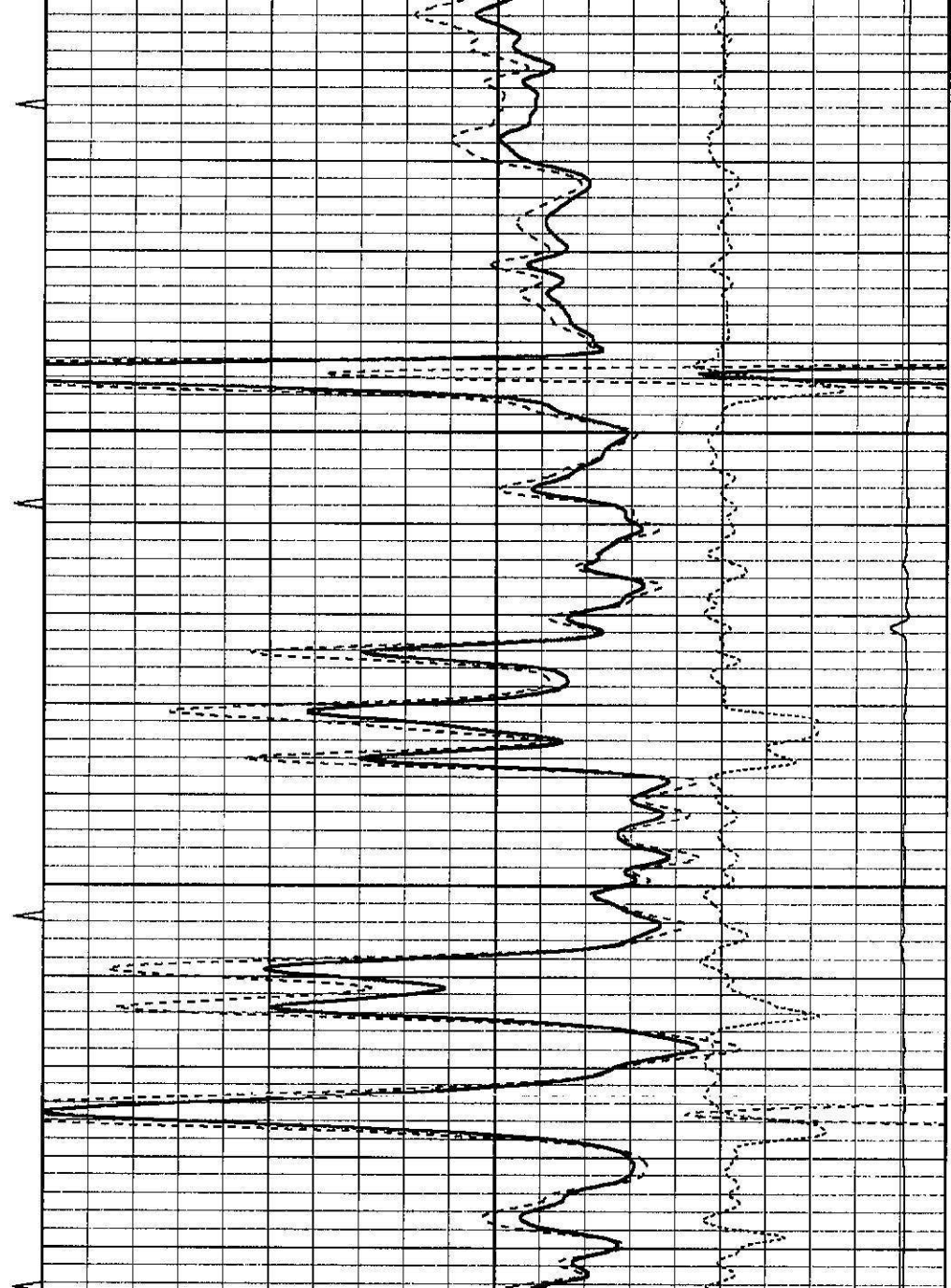
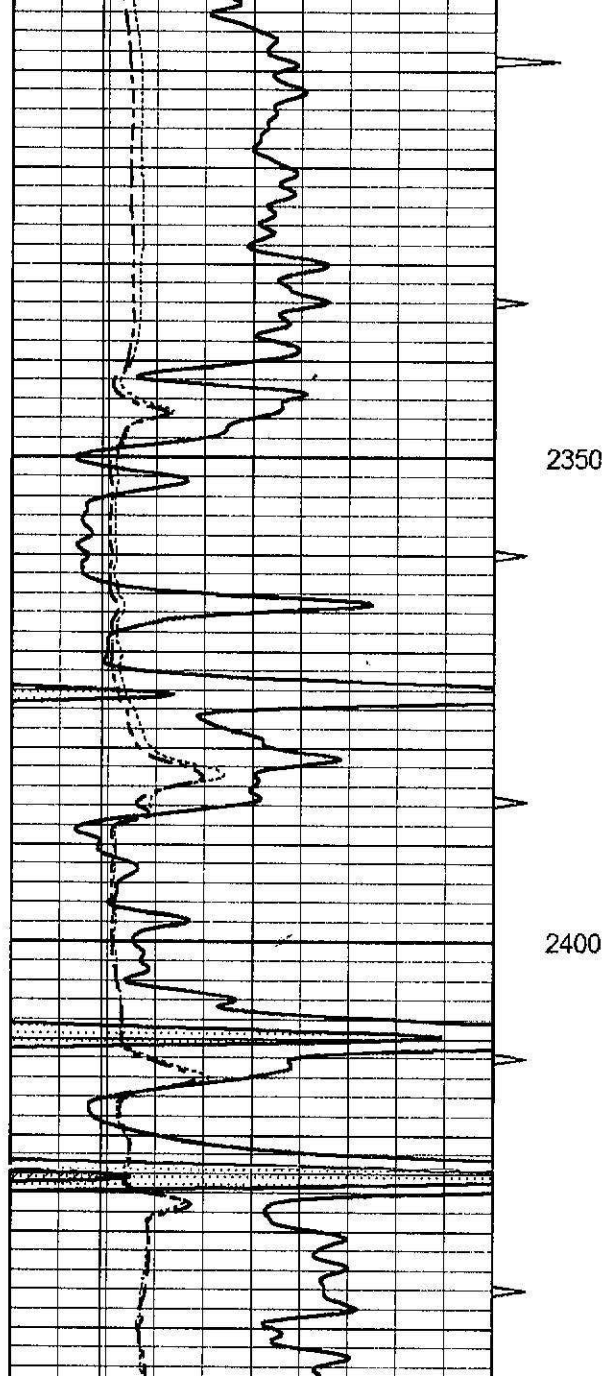


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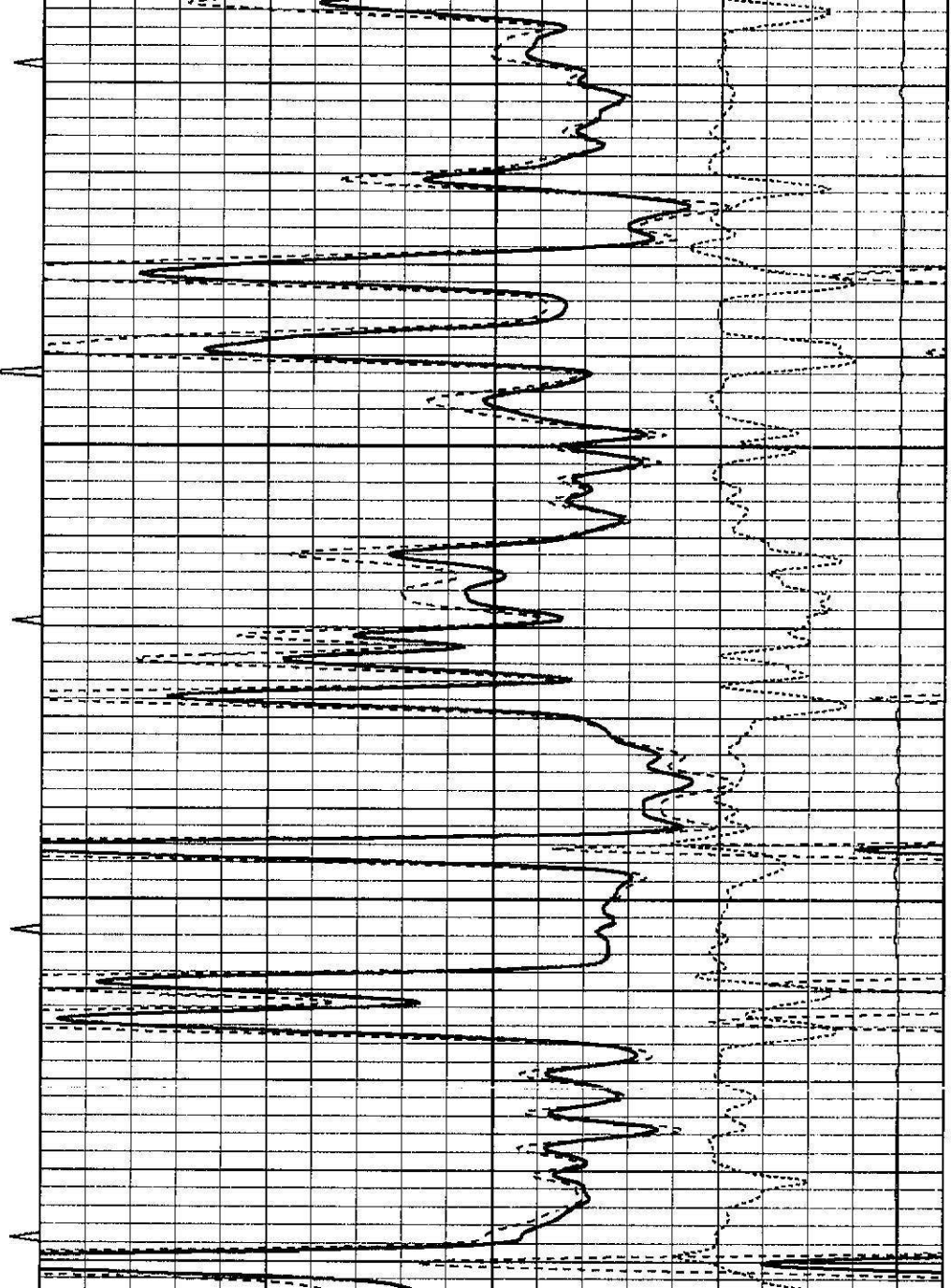
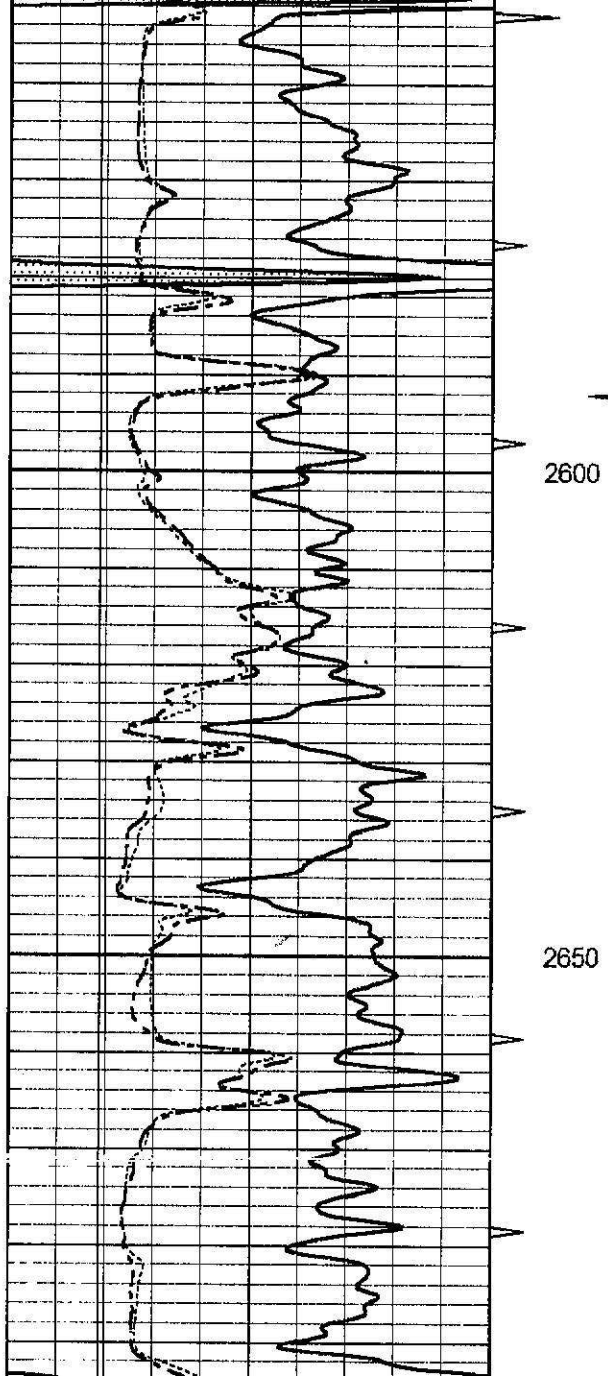
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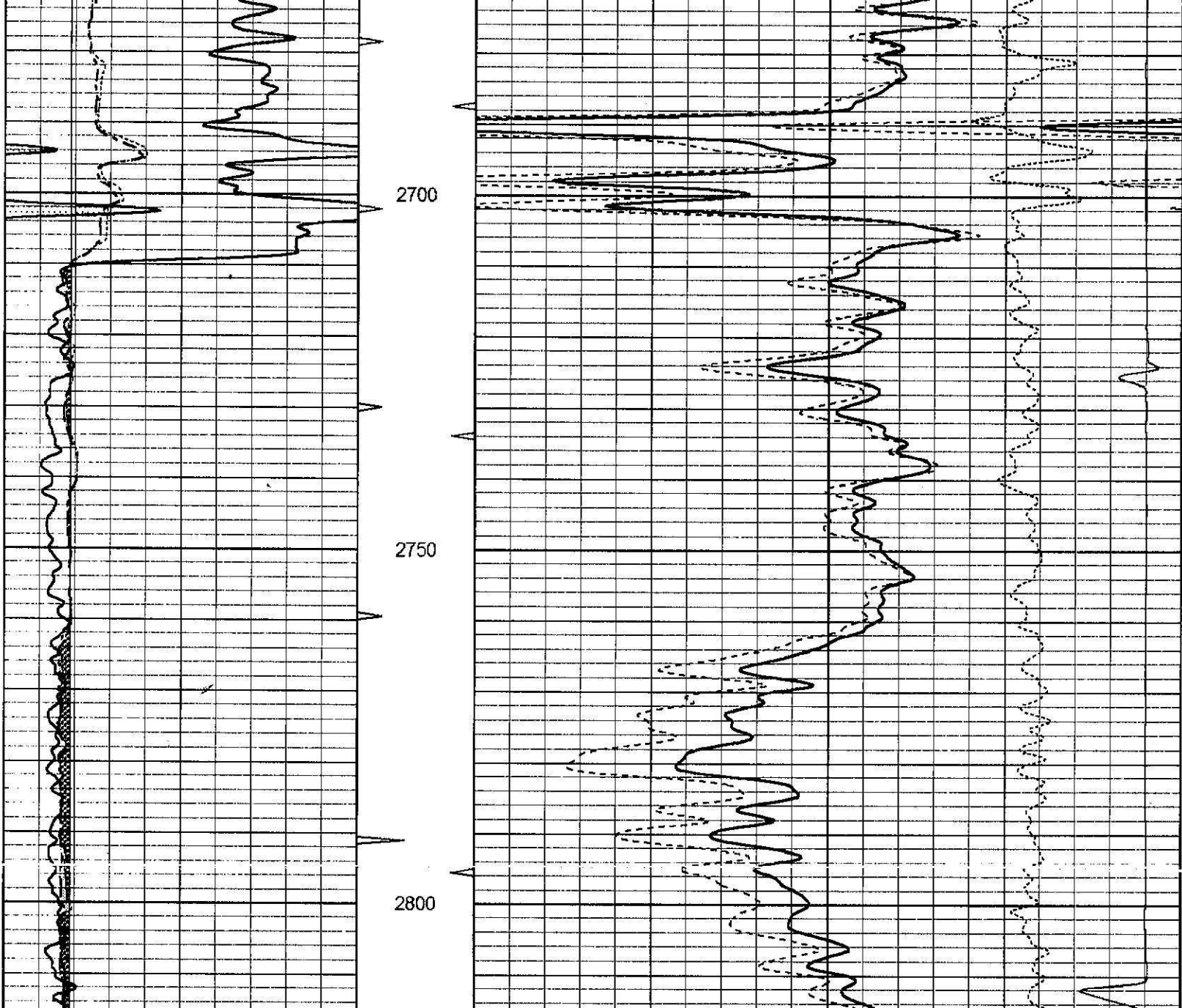
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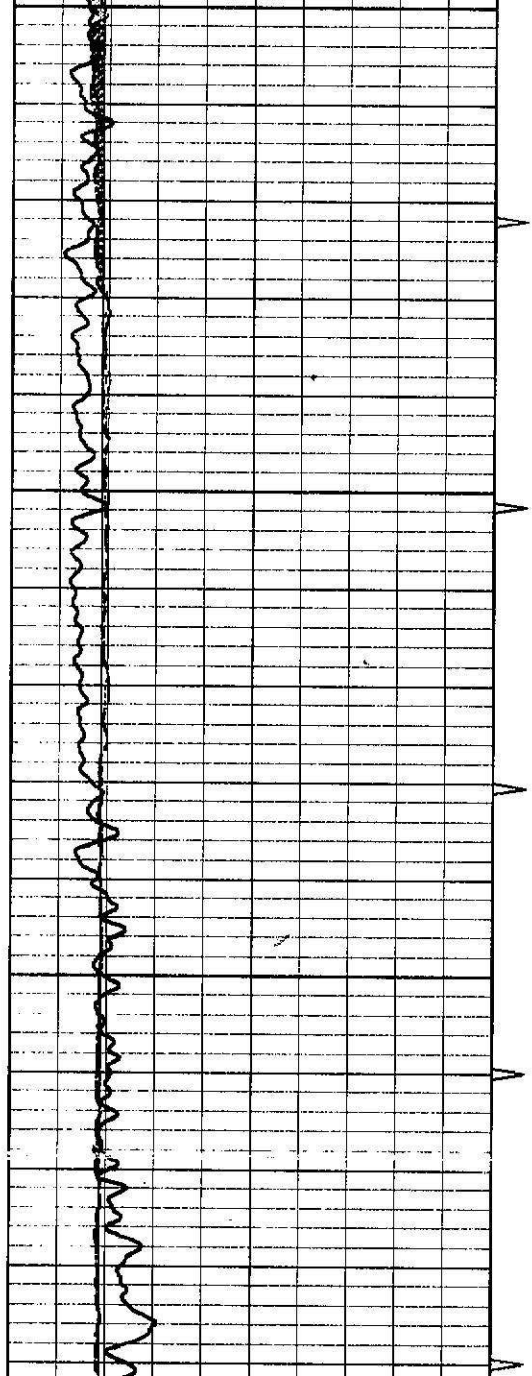








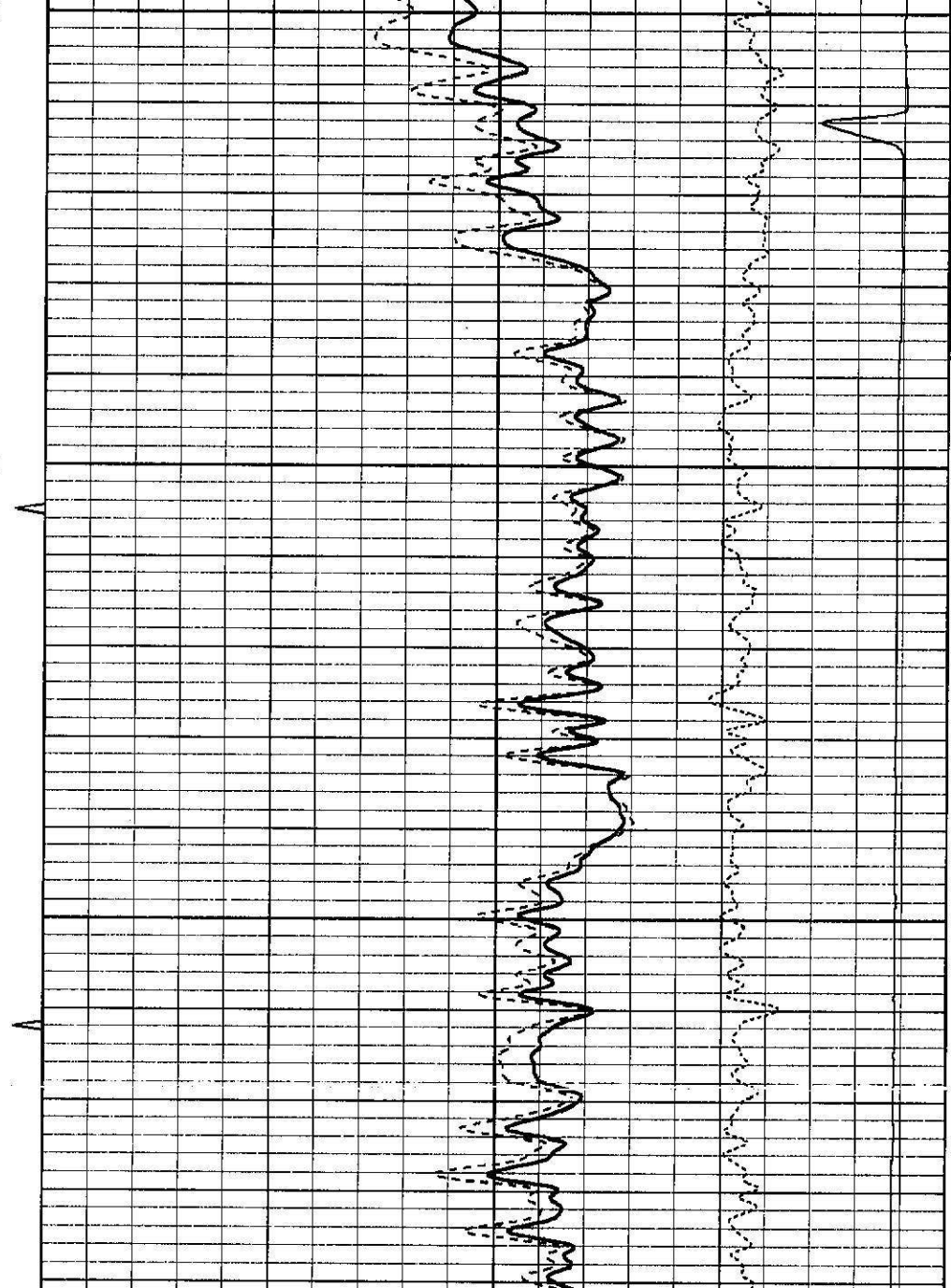


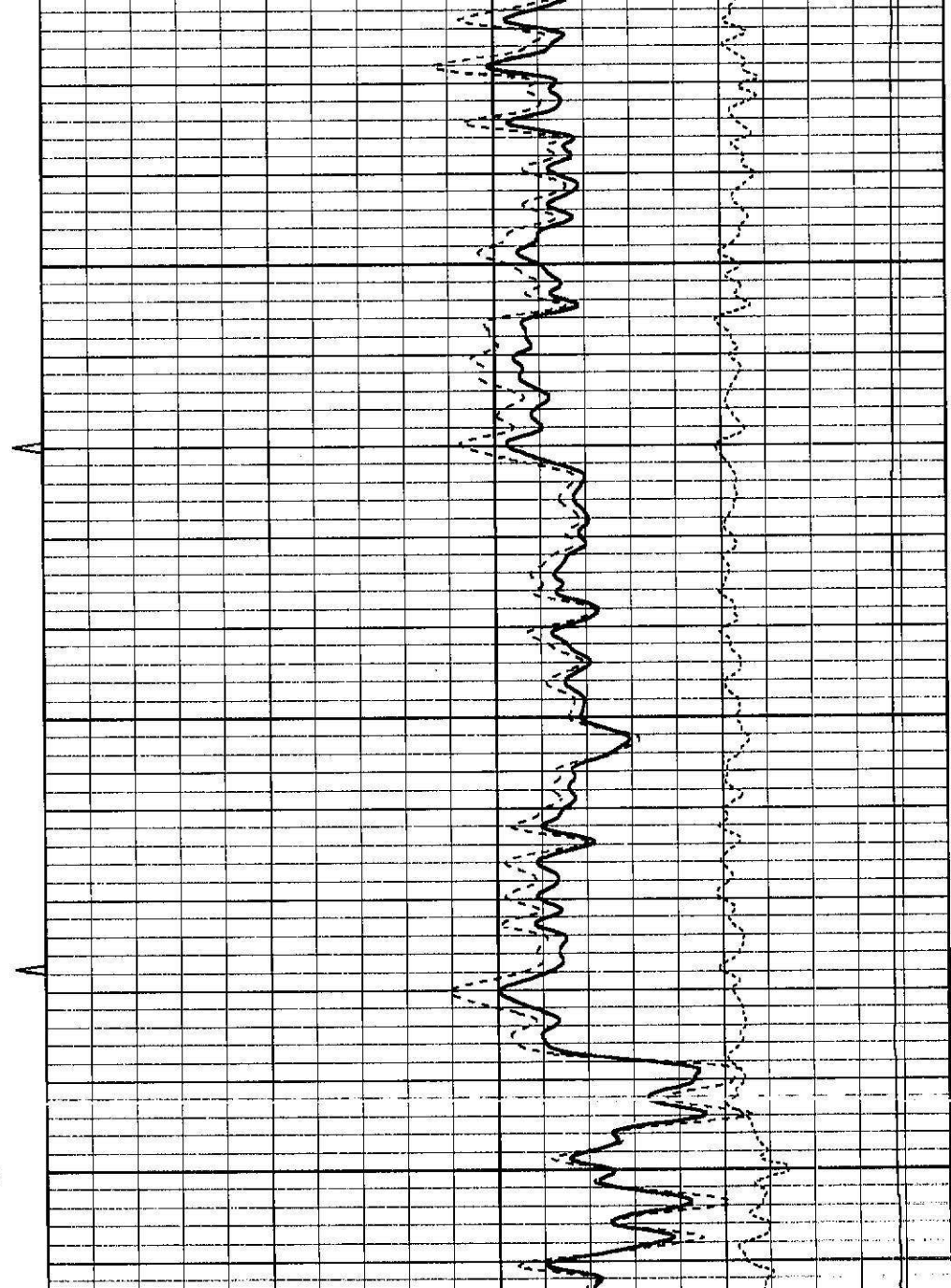
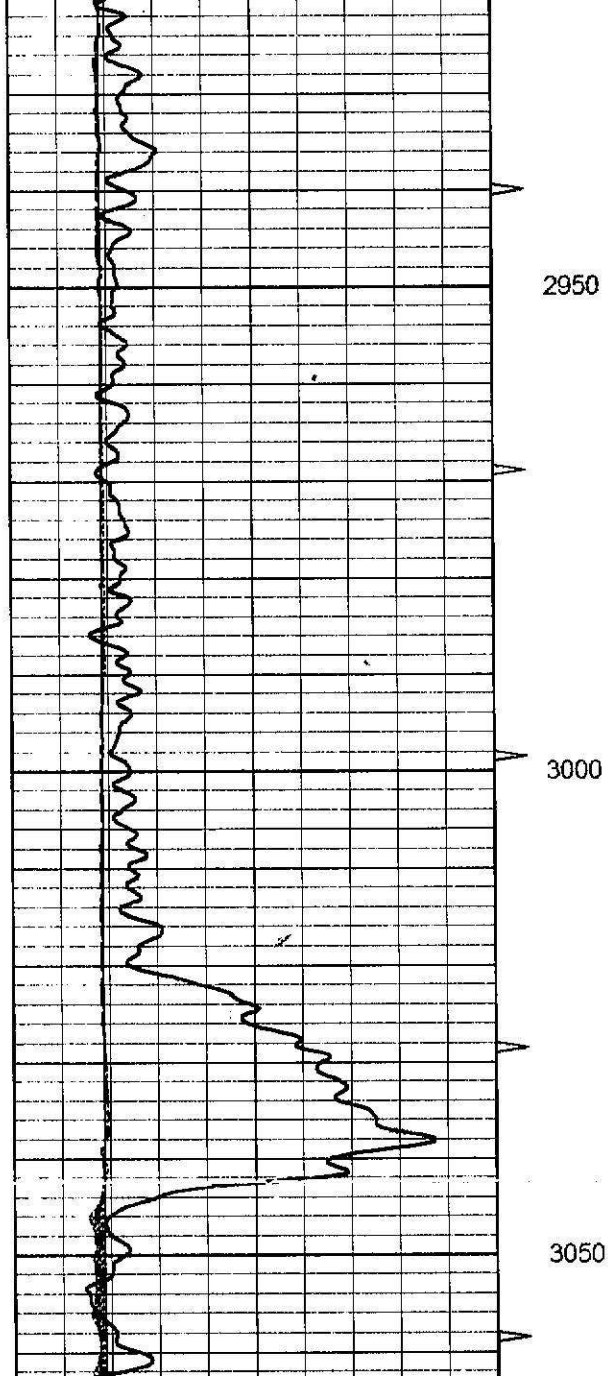


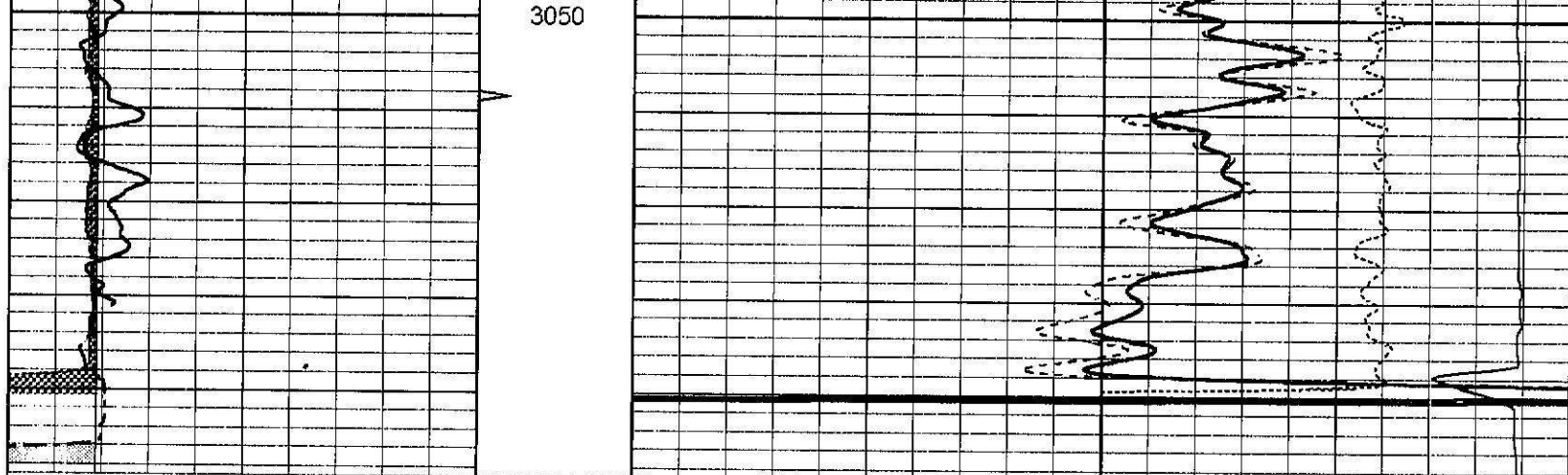
2800

2850

2900


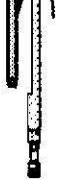






0	Gamma Ray (GAPI)	150	TBHV	2	Bulk Density (g/cc)	3
6	Bit size (in)	16	ABHV	30	Density porosity (pu)	-10
6	Density Caliper (in)	16			-0.5	Correction (g/cc) 0.5
6	Neutron Caliper (in)	16			5000	Line Tension (lb) 500

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	15.60		Cable-CableHead Isulation Sub	1.42	3.00	20.00
			Gamma-Oilex2122 (2122) Gamma Ray Section	2.83	3.50	75.00
LSD DCAL	10.21 9.94		Density-Oilex2226 (2226) Density Section	6.08	4.00	200.00

LSD	10.21		Density-Oilex2226 (2226) Density Section	6.08	4.00	200.00
DCAL	9.94					
SSD	9.76					
SCAL	2.54		Neutron-Sidewall3015 (3015) Sidewall Neutron Section	7.81	4.00	150.00
SWN	2.15					
NEU	2.15					
		Dataset: ow2-8737 moline.db: field/well/CDL/pass1.1 Total length: 18.15 ft Total weight: 445.00 lb O.D.: 4.00 in				



# DUAL INDUCTION LL3/GR LOG

Company  
T & R OIL COMPANY  
Well  
DENTON # 15  
Field  
GRAND SUMMIT  
County  
COWLEY  
State  
KANSAS

Company T & R OIL COMPANY

Well DENTON # 15

Field GRAND SUMMIT

County COWLEY State KANSAS

Location: API #: 15-035-24603-0000

E/2 SW SE SE  
330' FSL & 690' FEL

SEC 4 TWP 31S RGE 8E

Other Services  
CDL/SWN,  
MEL

Elevation

Permanent Datum GL Elevation 1428'  
 Log Measured From KB  
 Drilling Measured From KB

K.B. 1432'  
D.F. 1431'  
G.L. 1428'

Date	9-27-2014
Run Number	ONE
Depth Driller	3100'
Depth Logger	3098'
Bottom Logged Interval	3096'
Top Log Interval	SURFACE
Casing Driller	8 5/8" @ 213'
Casing Logger	8 5/8" @ 213'
Bit Size	7 7/8"
Type Fluid in Hole	CHEM-GEL
Density / Viscosity	9.2 / 55
pH / Fluid Loss	10.0 / 10.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.40 @ 75
Rmf @ Meas. Temp	1.62 @ 75
Rmc @ Meas. Temp	1.22 @ 75
Source of Rmf / Rmc	CAL
Rm @ BHT	1.02 @ 107
Time Circulation Stopped	6:00 AM
Time Logger on Bottom	10:45 AM
Maximum Recorded Temperature	107
Equipment Number	OW2
Location	HOMINY, OK
Recorded By	LOWERY
Witnessed By	MR. PATTESON

<<< Fold 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

OW2-8737

CREW : SHAMBLES



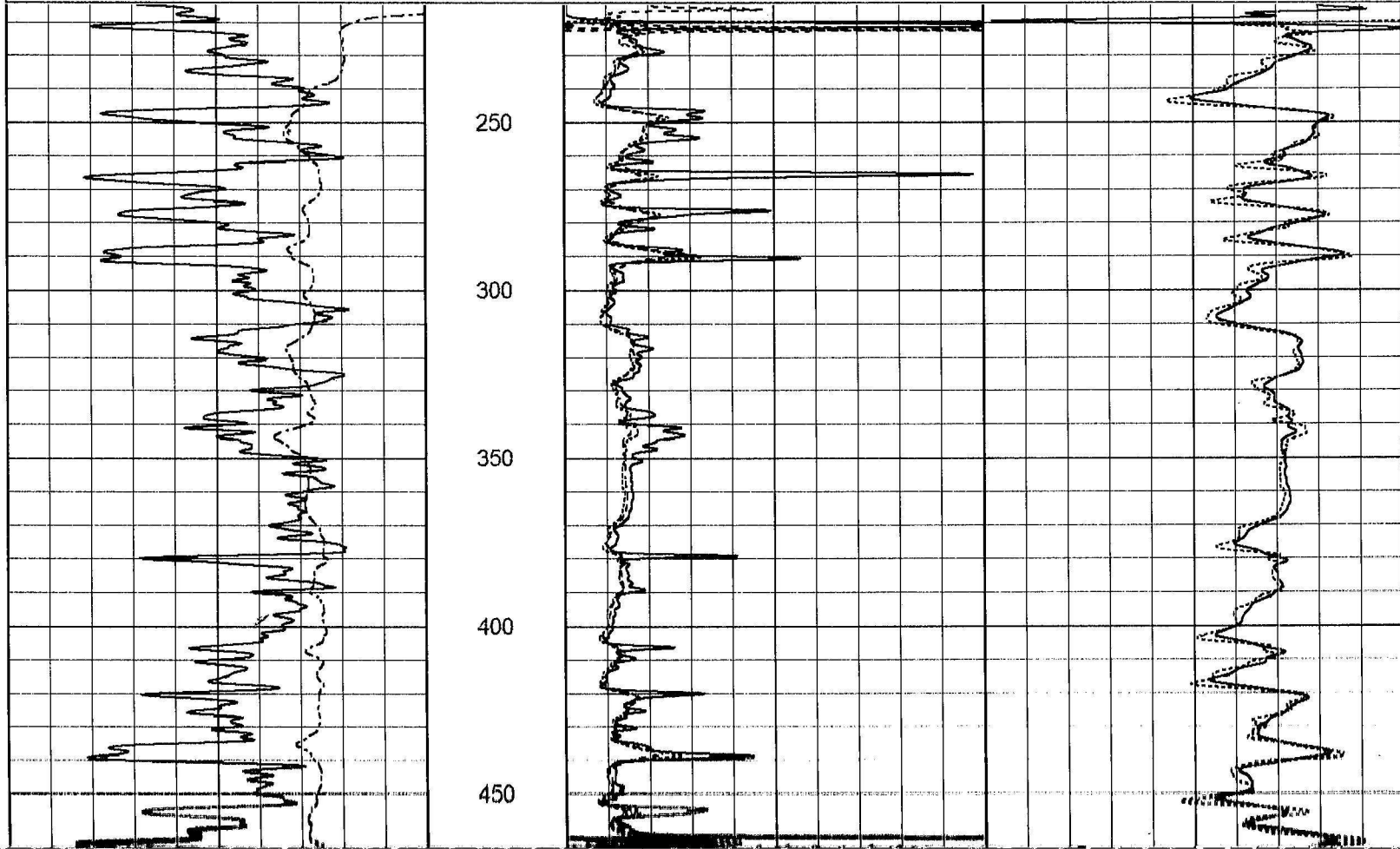
# 2" DIL SECTION

Database File ow2-8737 moline.db  
 Dataset Pathname DILM/pass1.4  
 Presentation Format dil2mdcol  
 Dataset Creation Sat Sep 27 11:41:51 2014  
 Charted by Depth in Feet scaled 1:600

0	GR (GAPI)	150	1000	CILD (mmho/m)	0
0	SP (mV)	200	1000	CILM (mmho/m)	0
0	RLL3 (Ohm-m)	50	0	RILM (Ohm-m)	50
0			0		

0	GR (GAPI)	150
0	SP (mV)	200

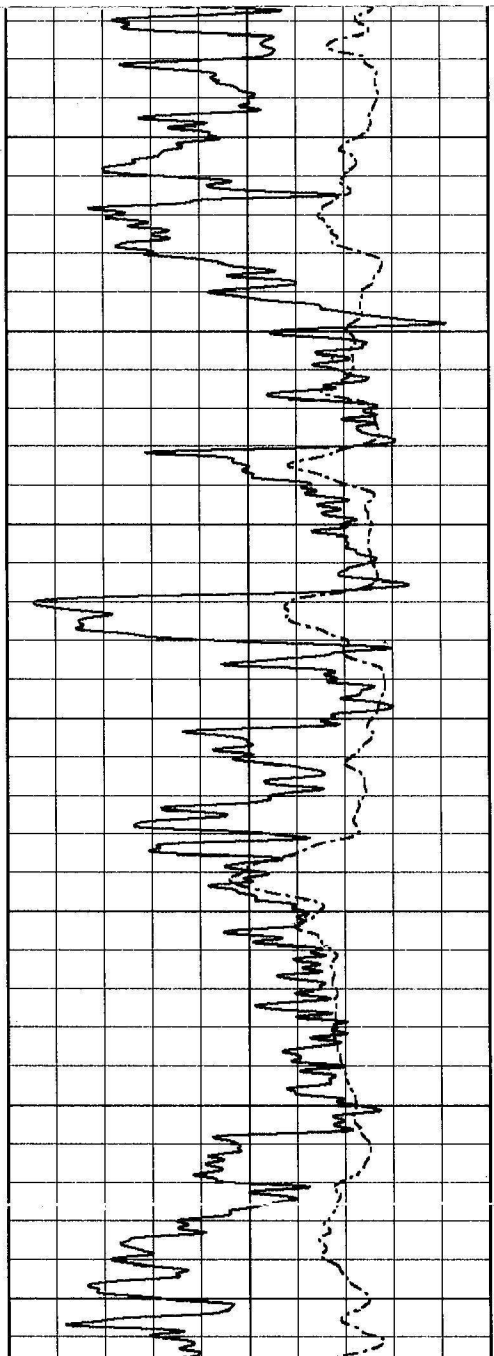
1000	CILD (mmho/m)	0
0	RLL3 (Ohm-m)	50
0	RILM (Ohm-m)	50
0	RILD (Ohm-m)	50



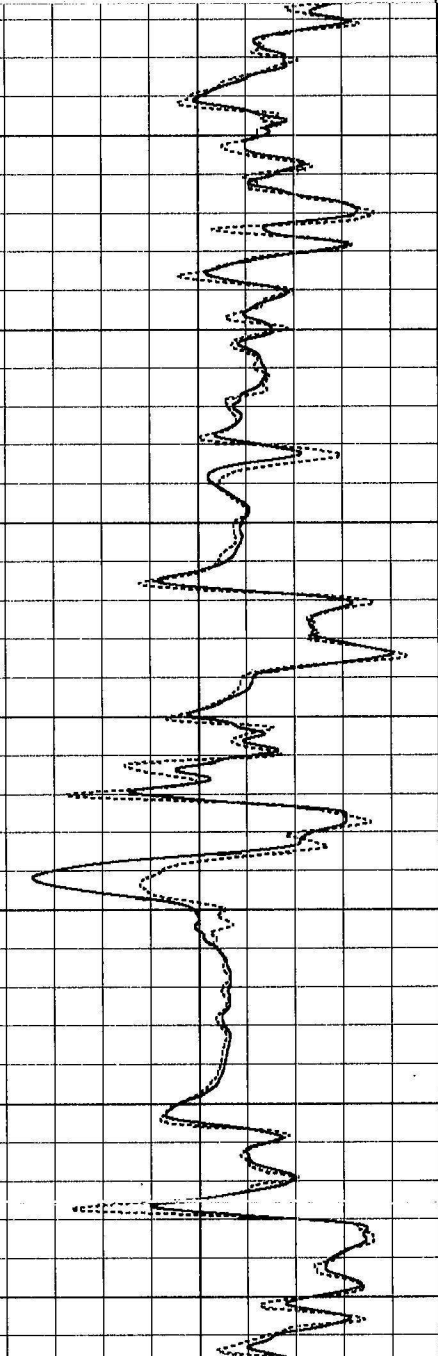
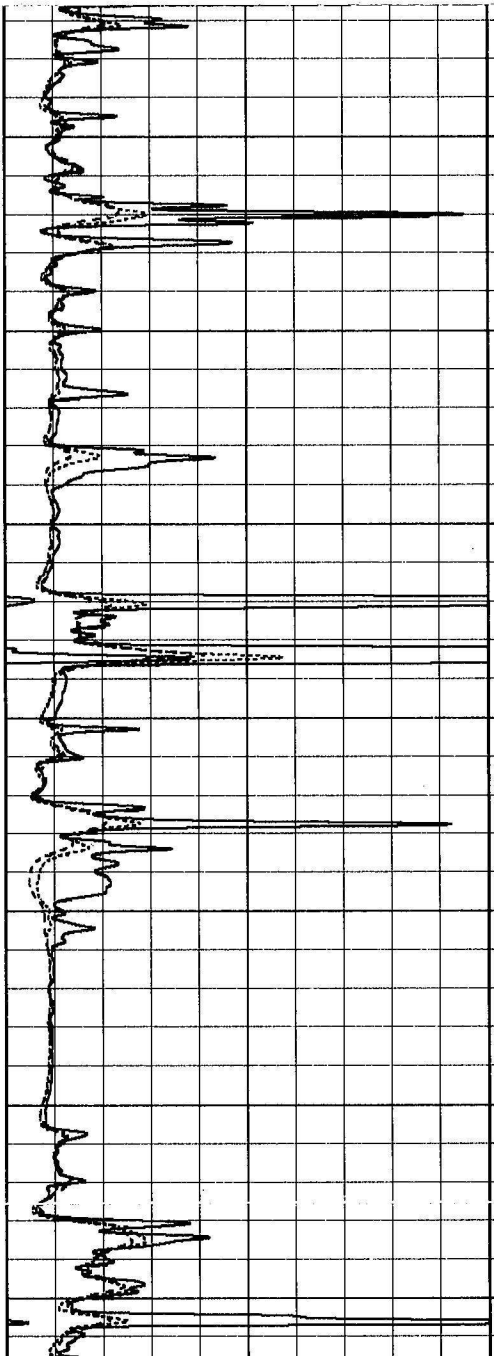
RLL3		
0	(Ohm-m)	50



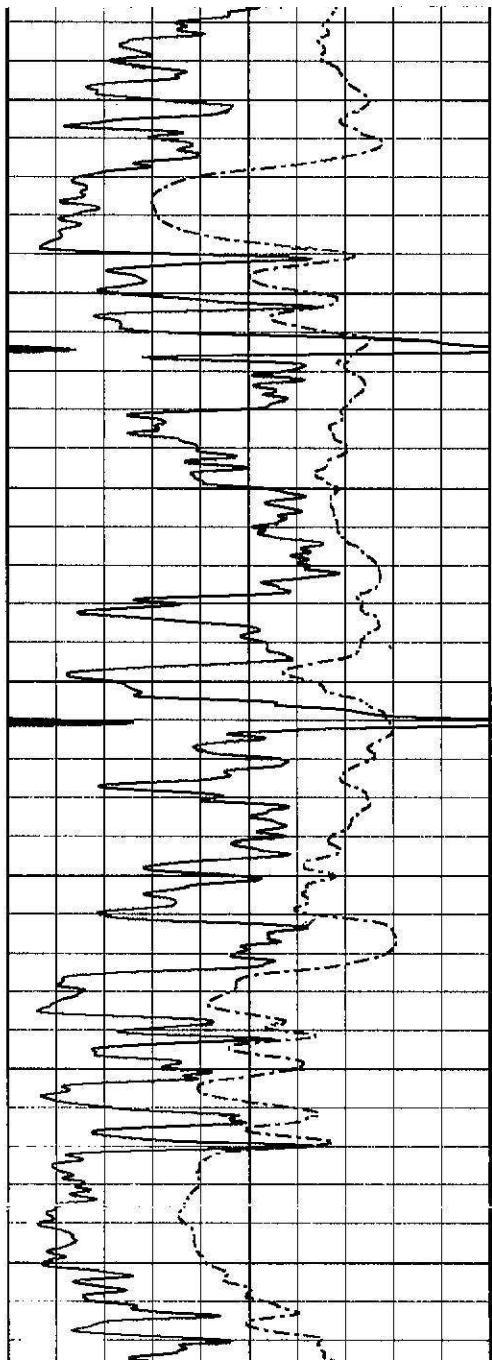
# WELL SECTION



500  
550  
600  
650  
700  
750  
800







800

850

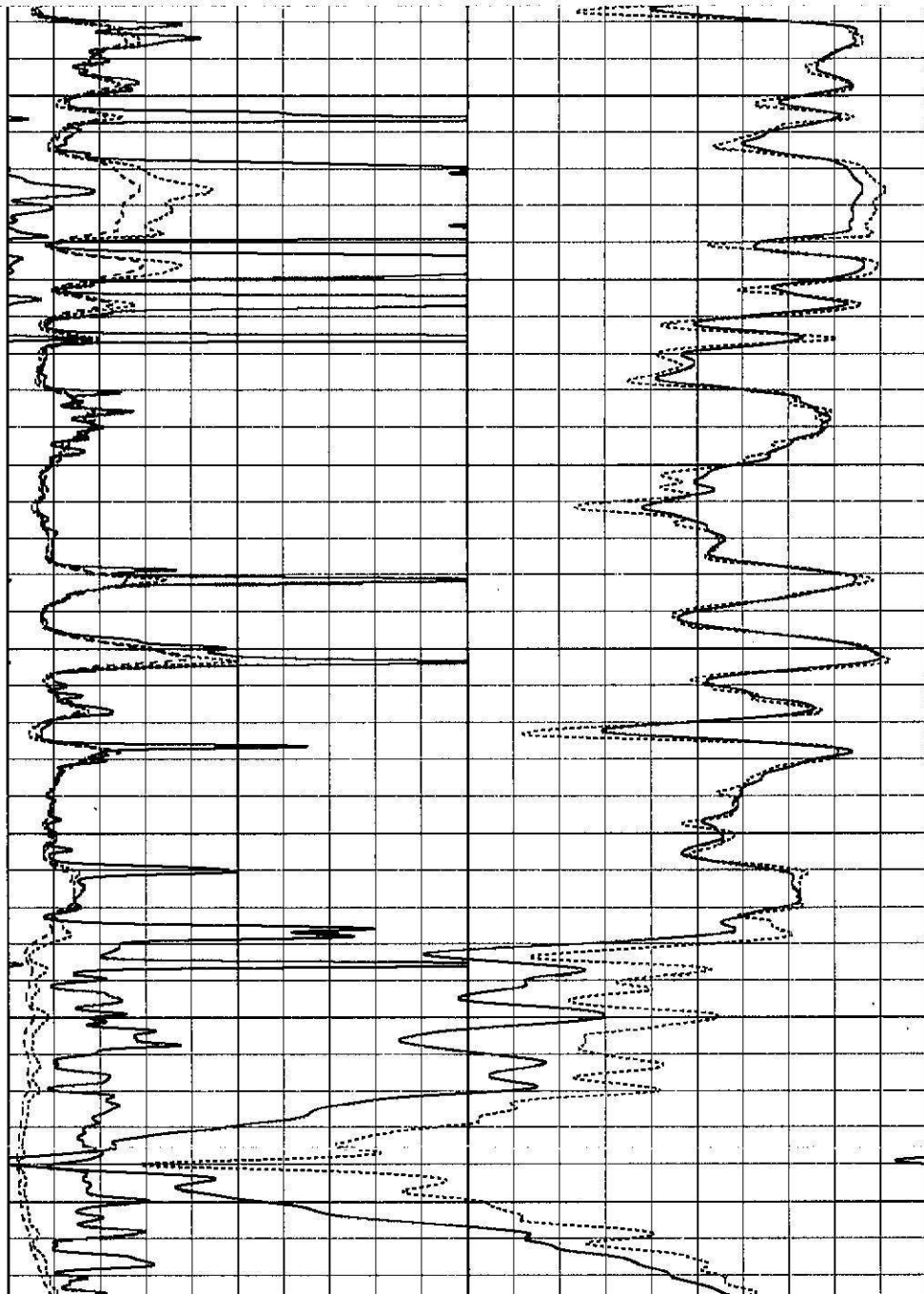
900

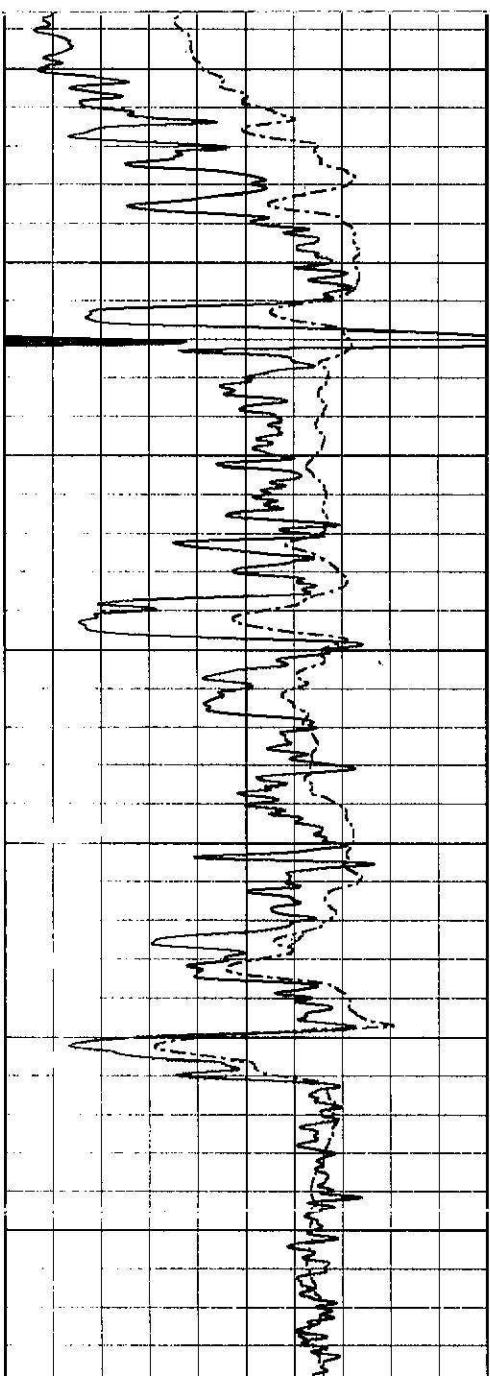
950

1000

1050

1100





1100

1150

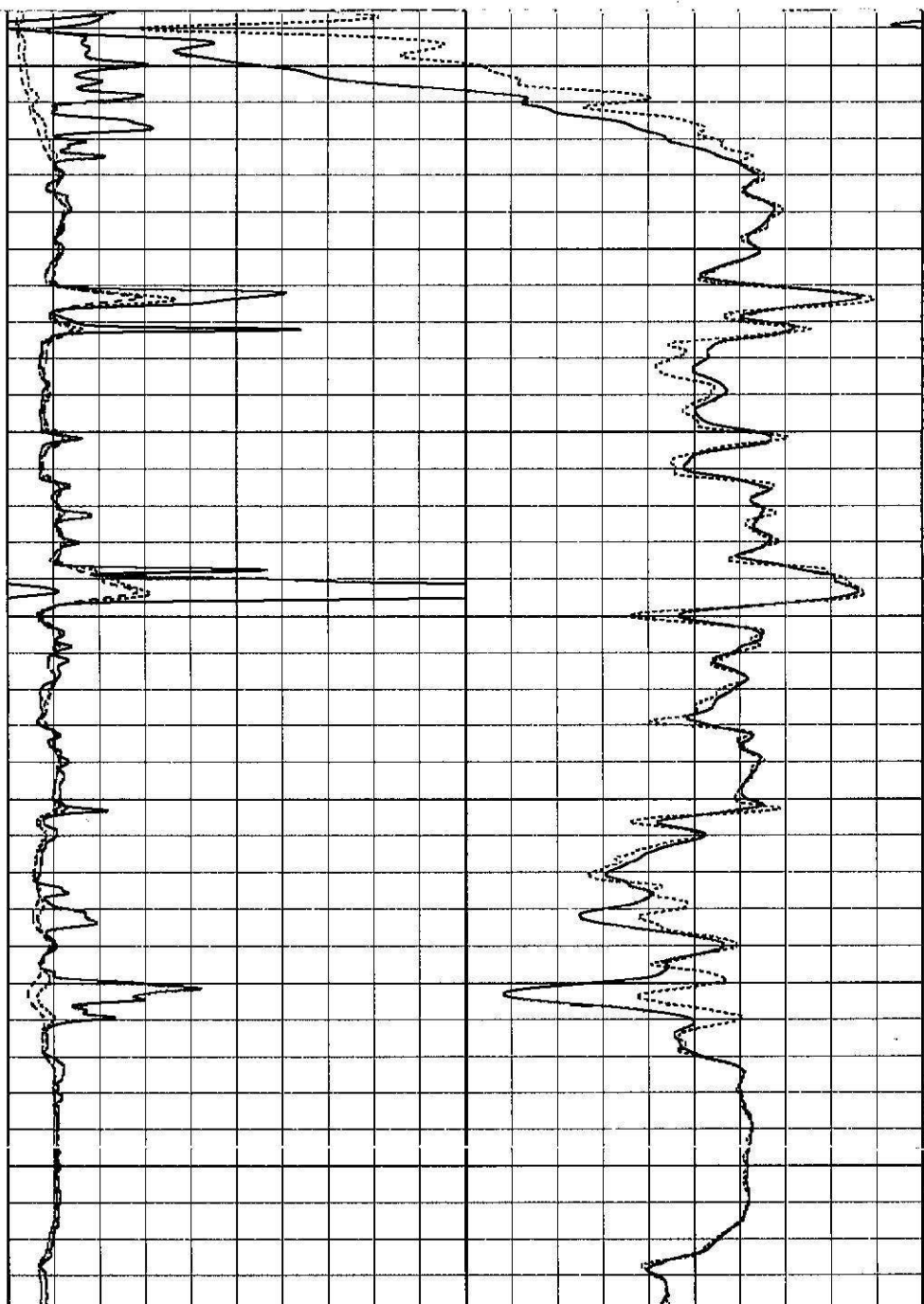
1200

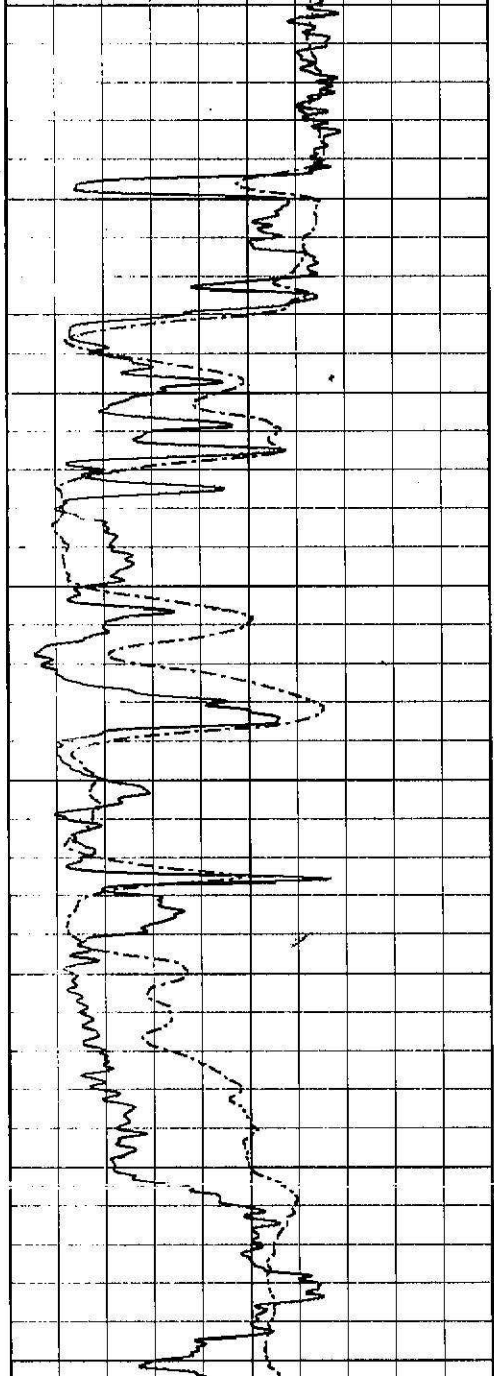
1250

1300

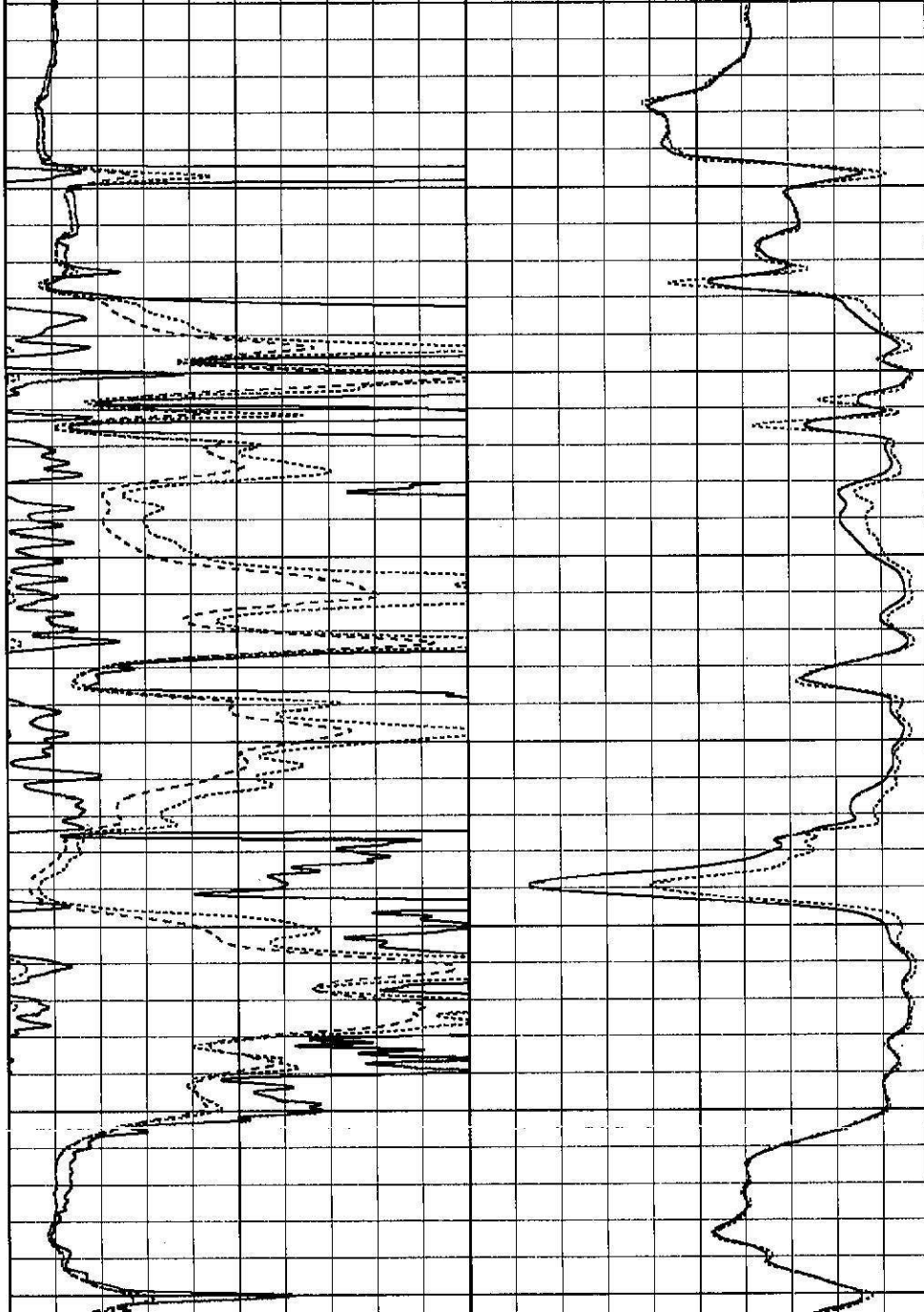
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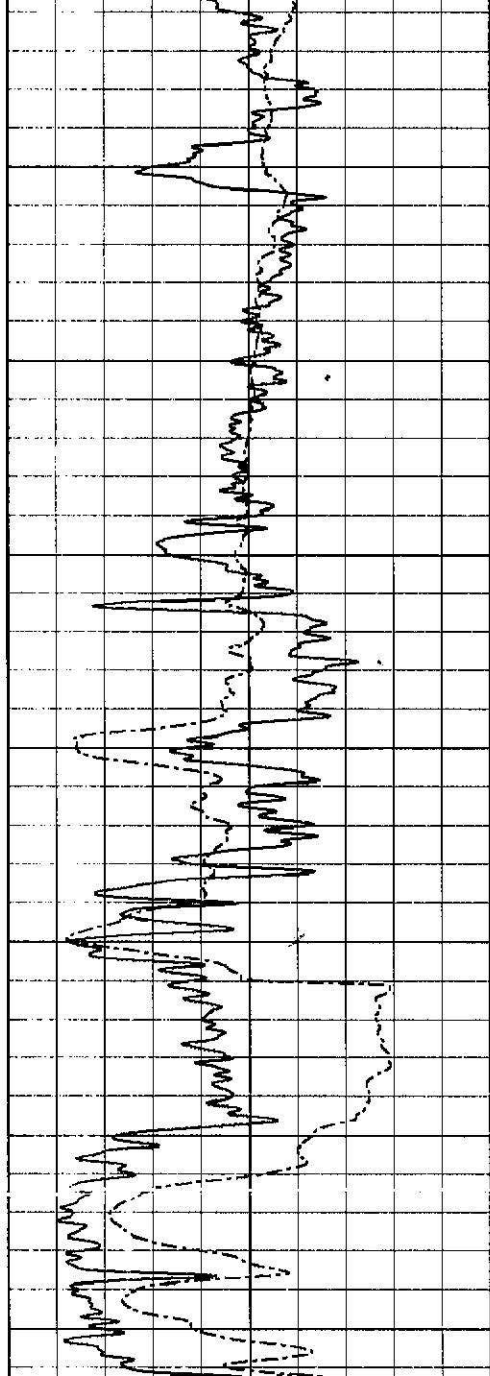
1400





1400  
1450  
1500  
1550  
1600  
1650  
1700  
1750





1750

1800

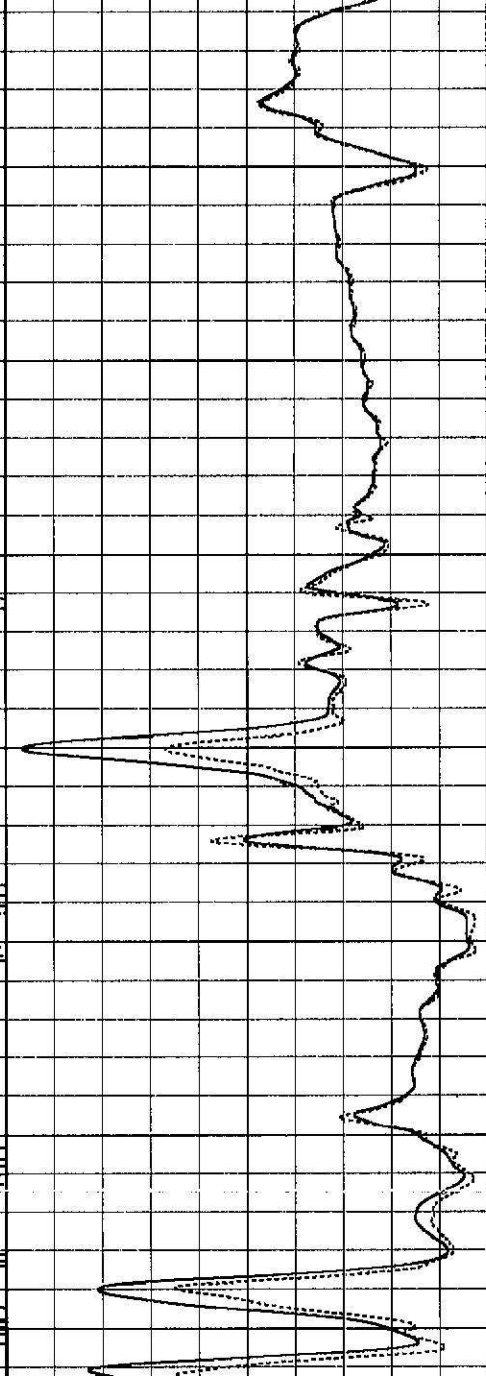
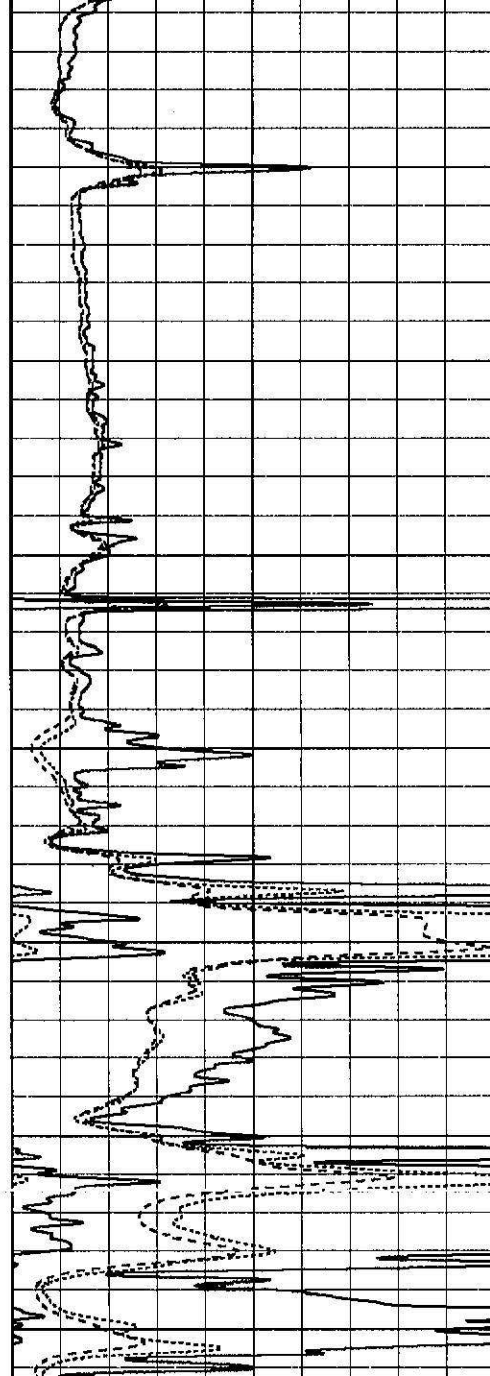
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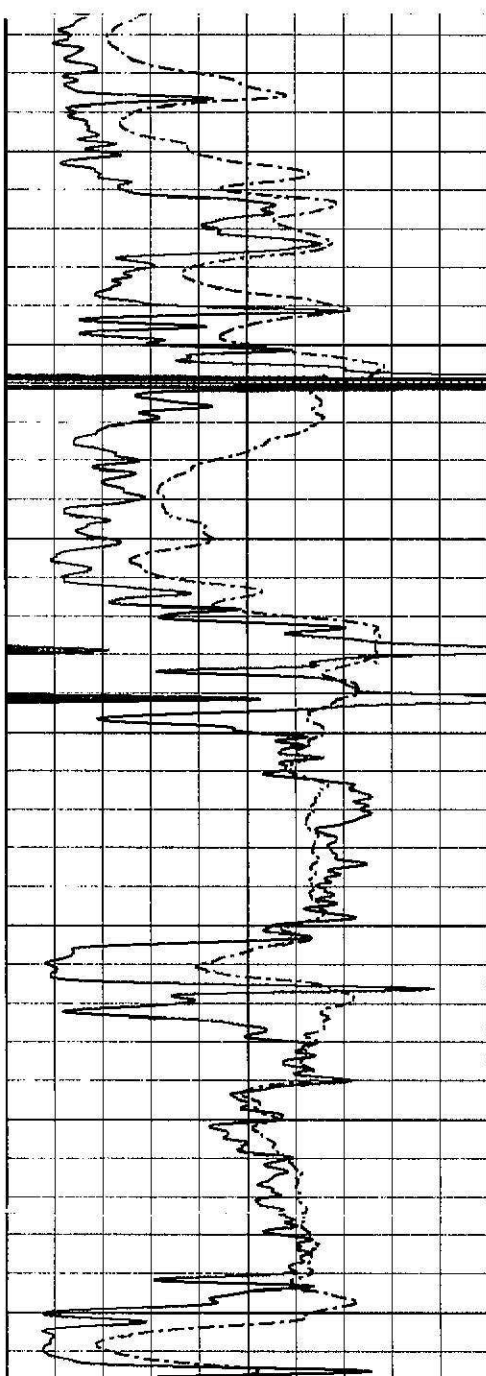
1900

1950

2000

2050





2050

2100

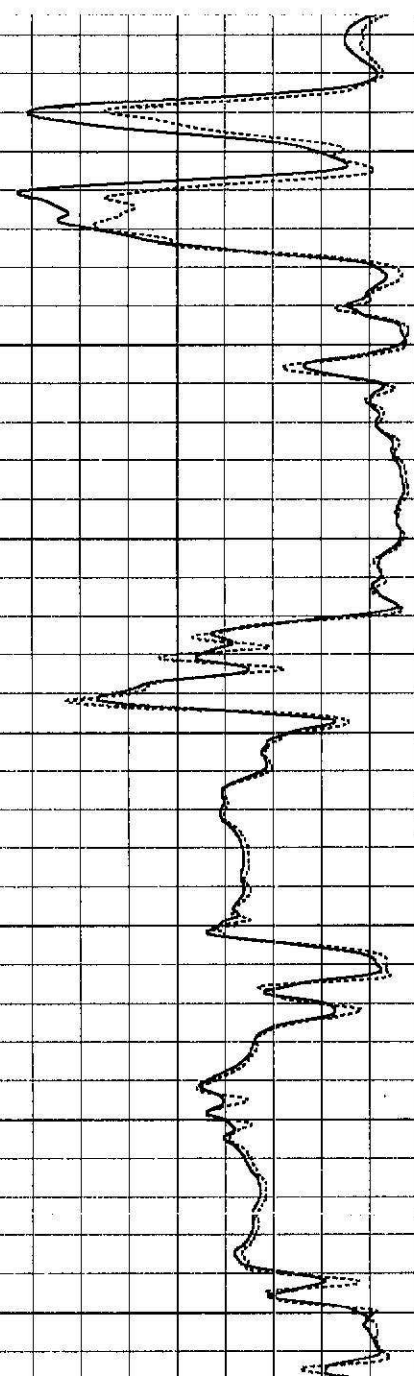
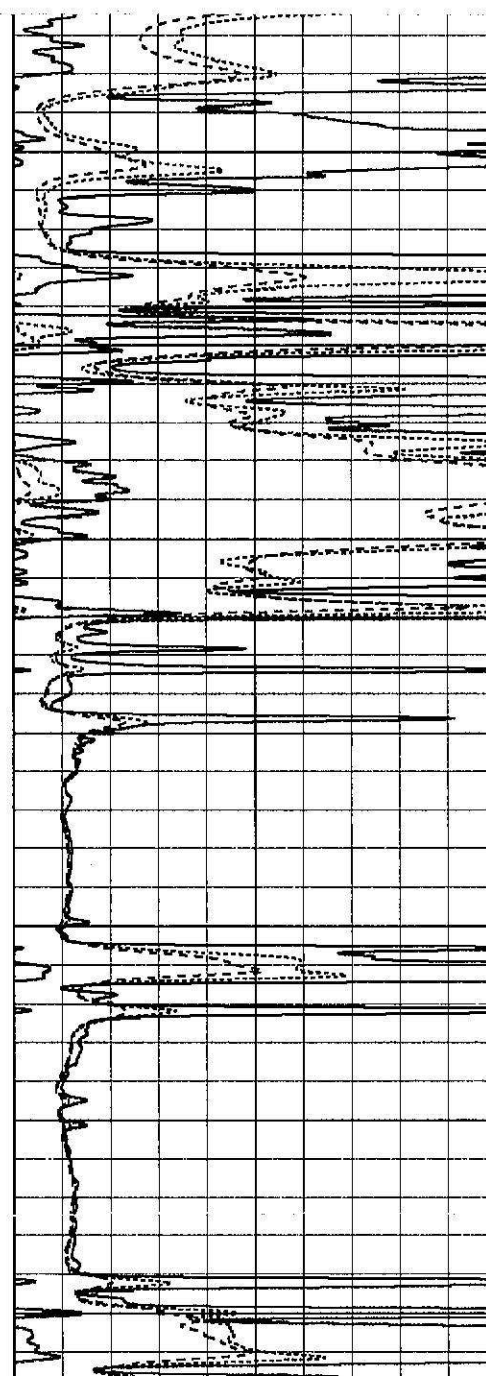
2150

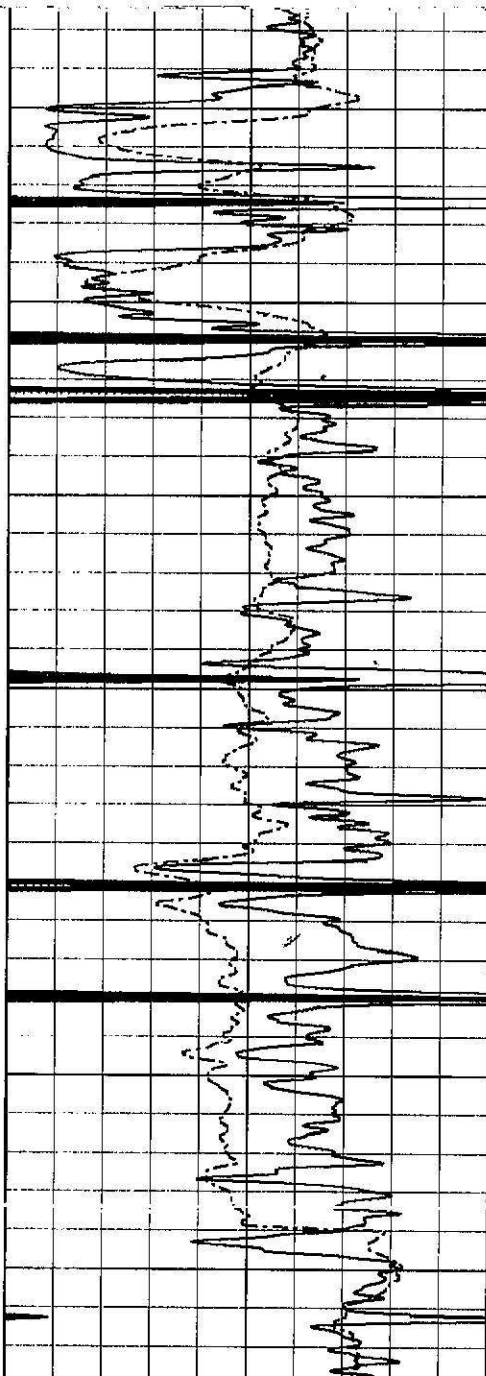
2200

2250

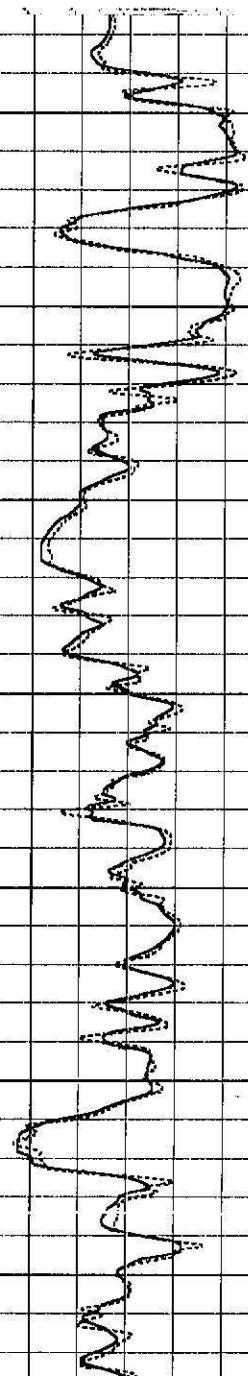
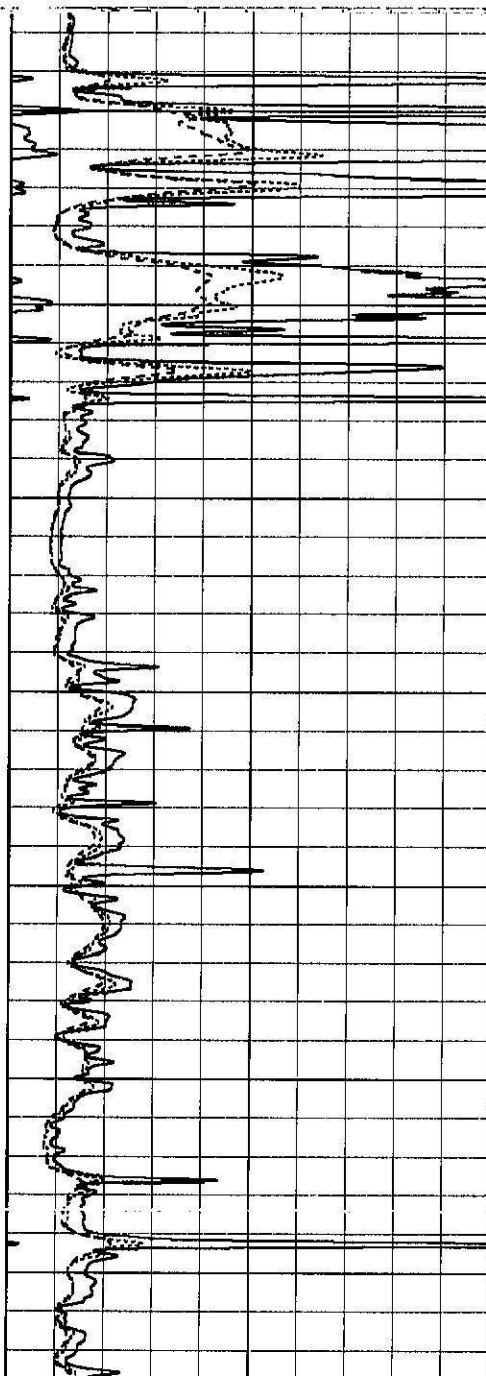
2300

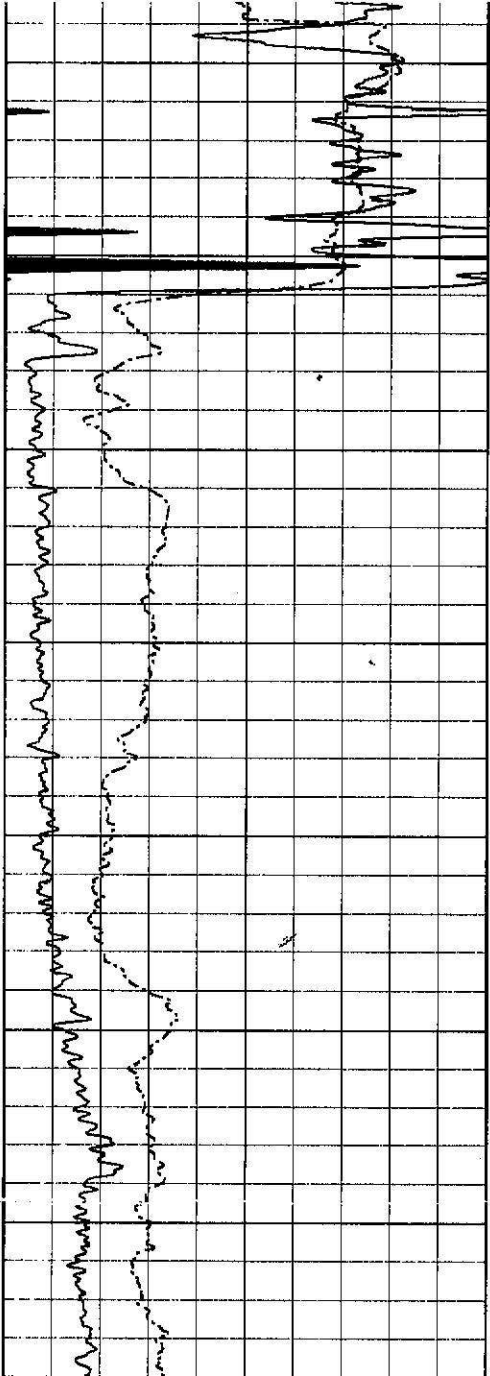
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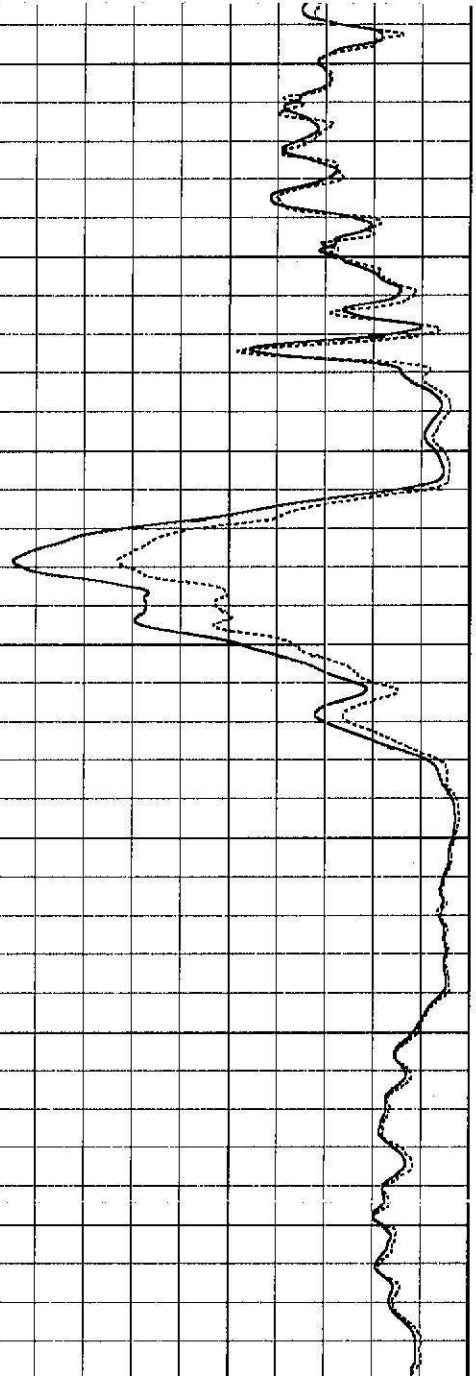
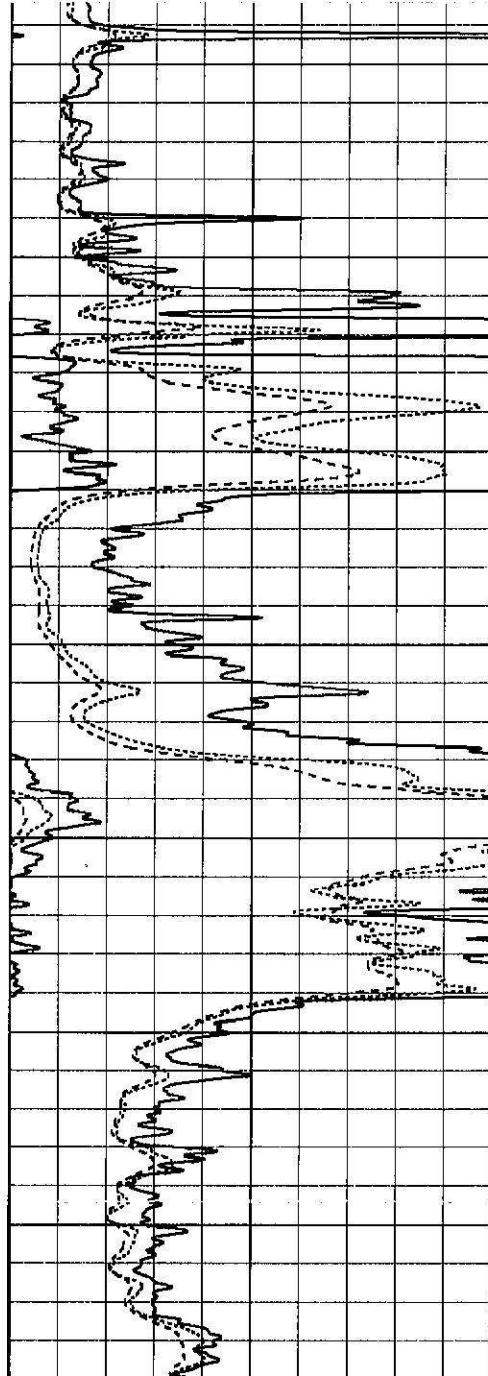


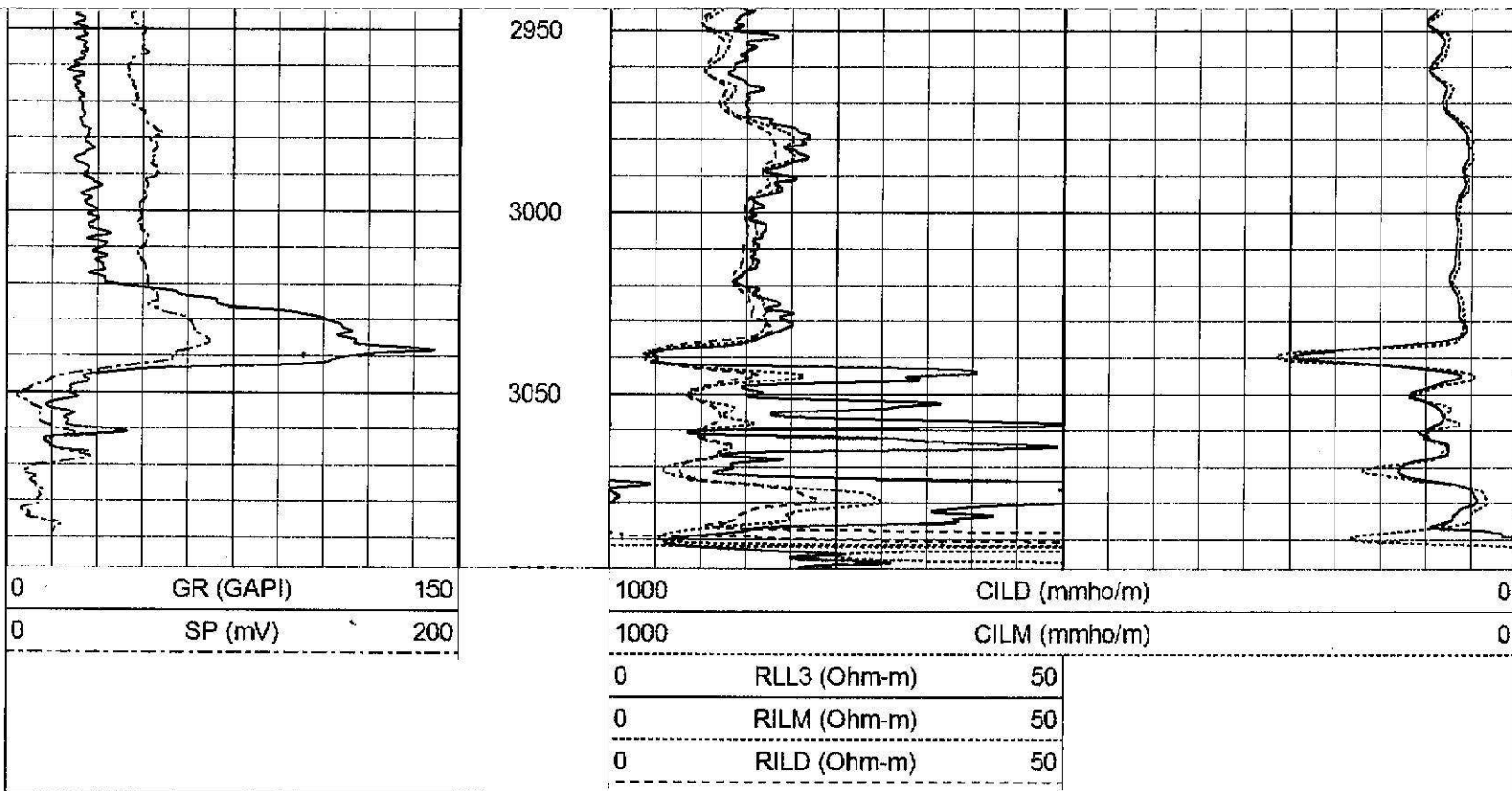
2350  
2400  
2450  
2500  
2550  
2600  
2650





2650  
2700  
2750  
2800  
2850  
2900  
2950





# 5" DIL SECTION

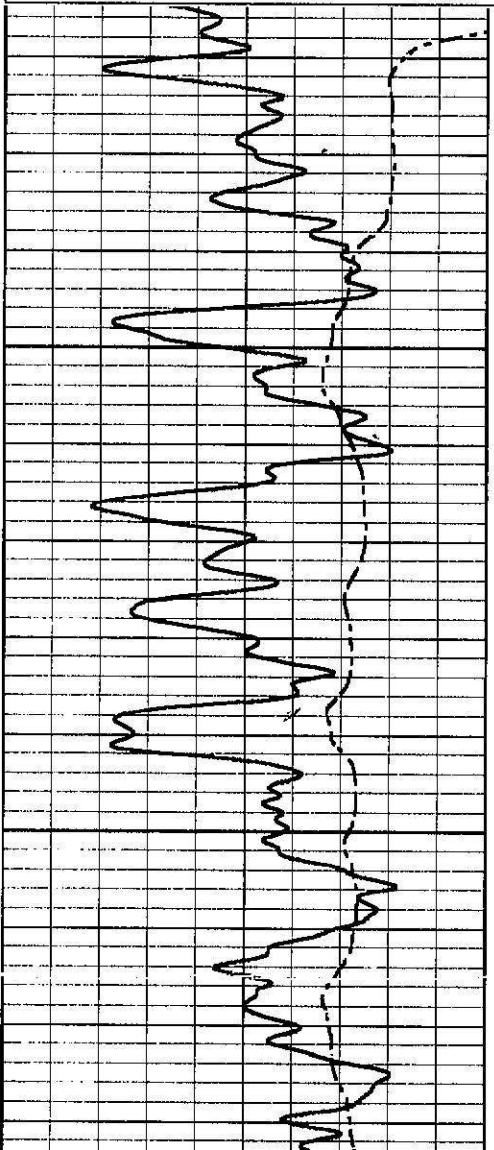
Database File ow2-8737 moline.db  
 Dataset Pathname DILM/pass1.3  
 Presentation Format dil5mdcol  
 Dataset Creation Sat Sep 27 11:41:43 2014  
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
0	SP (mV)	200	0.2	Medium Resistivity (Ohm-m)	2000



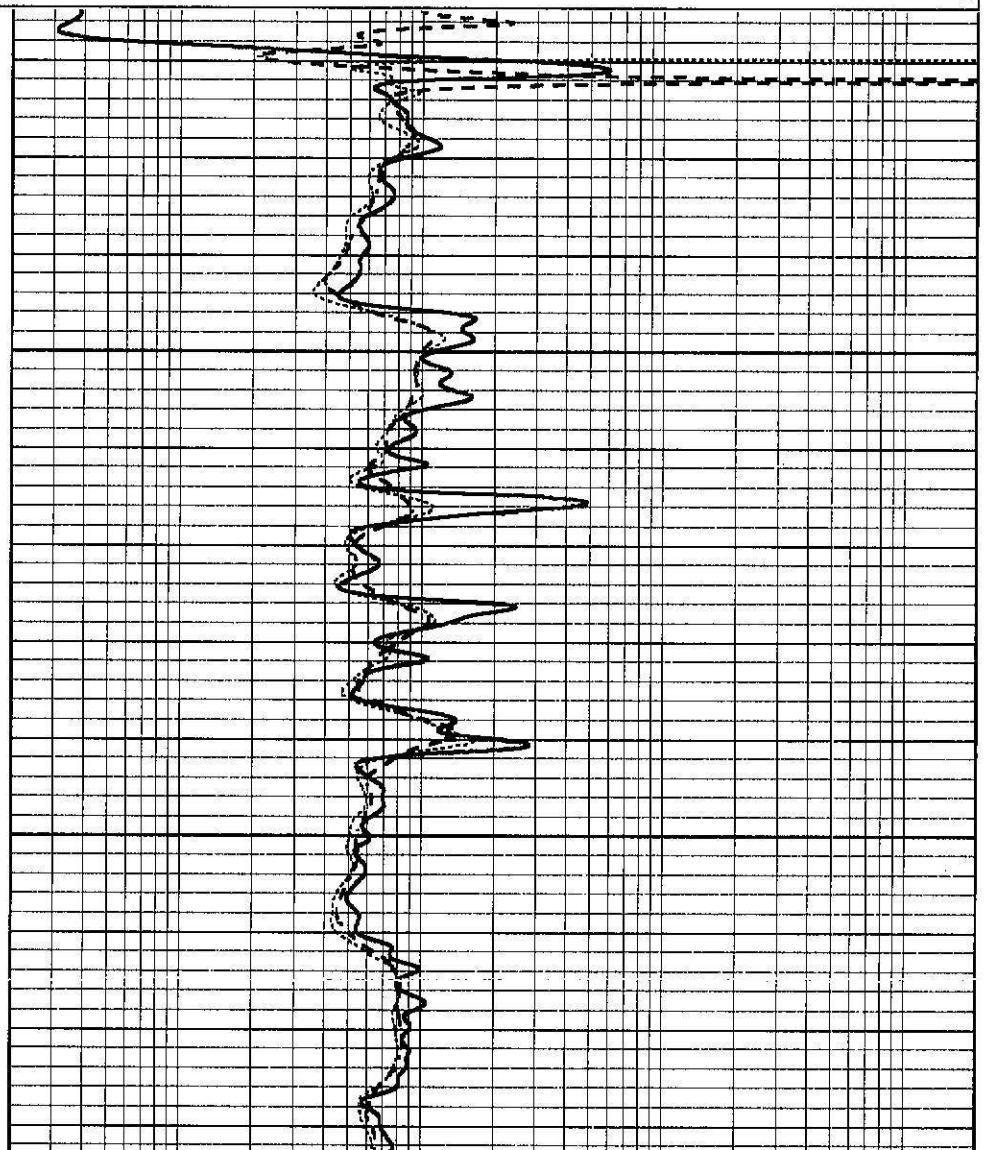
0	Gamma Ray (GAPI)	150
0	SP (mV)	200

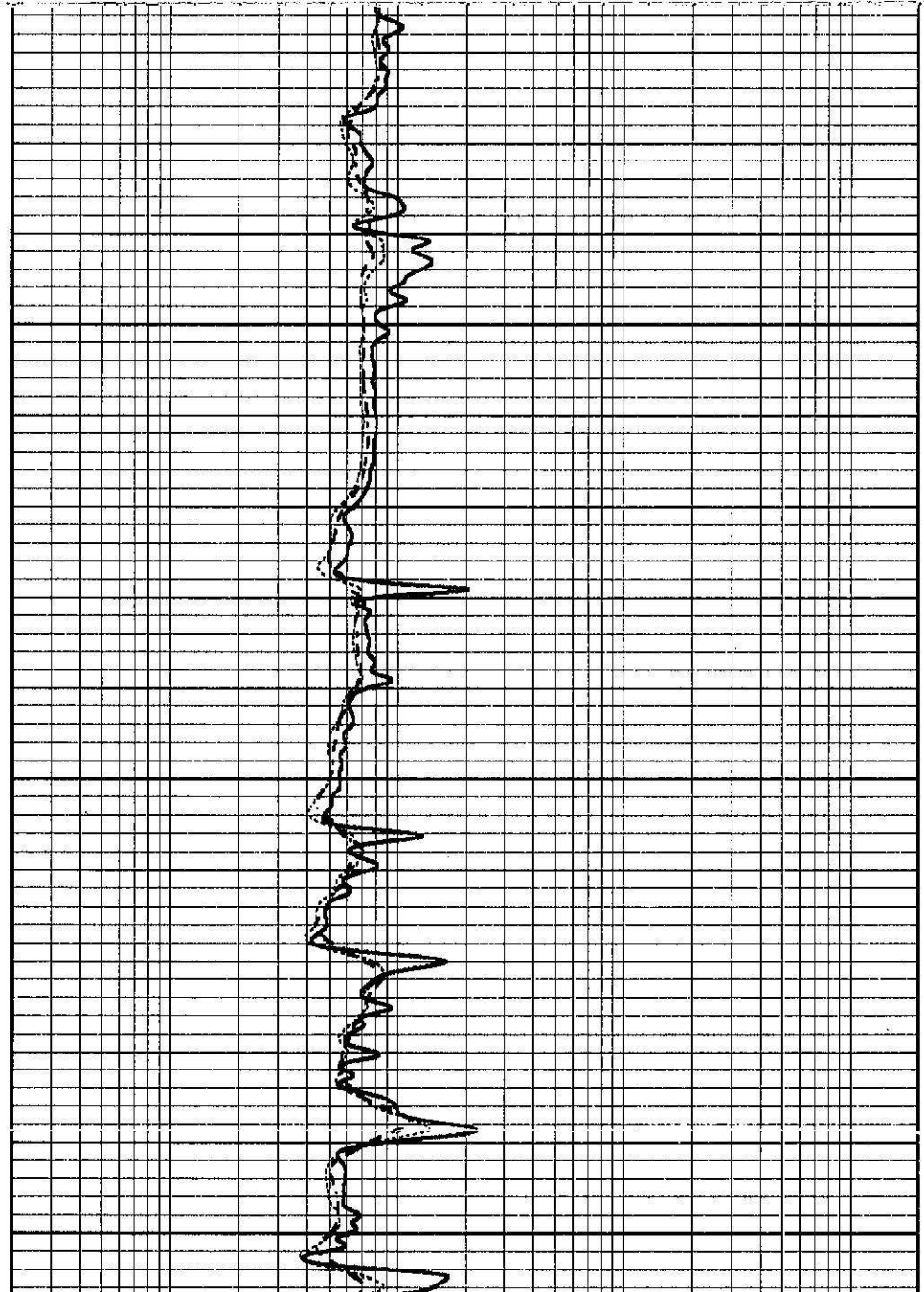
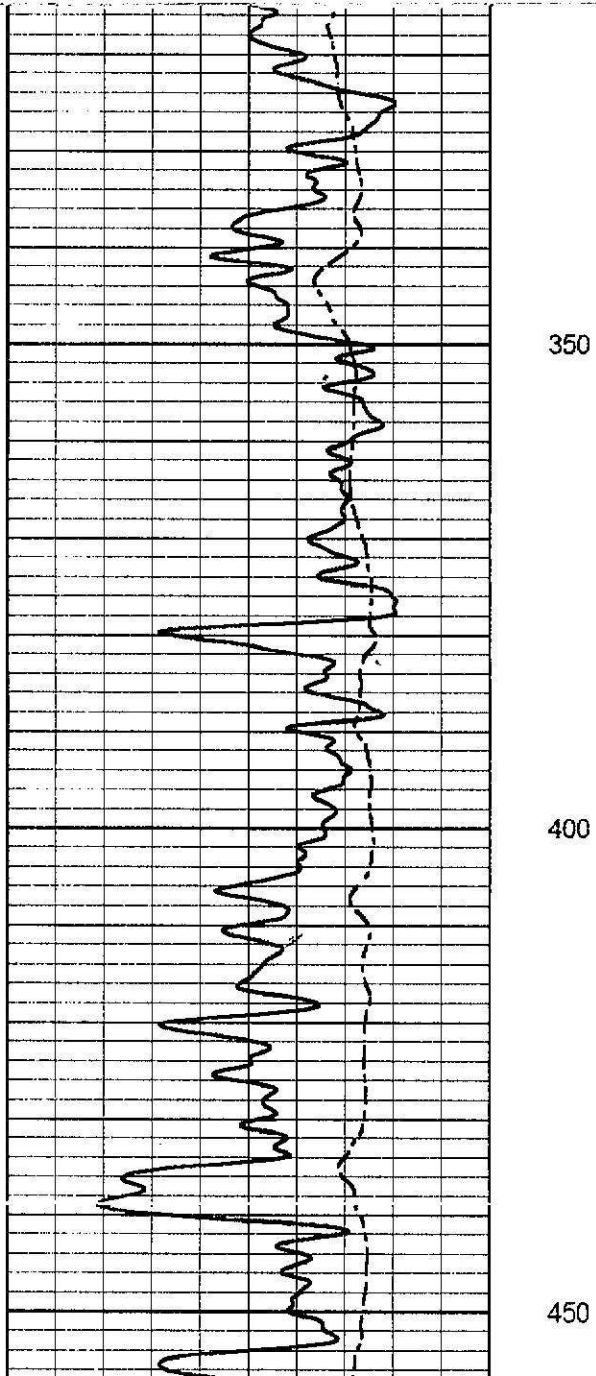
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000

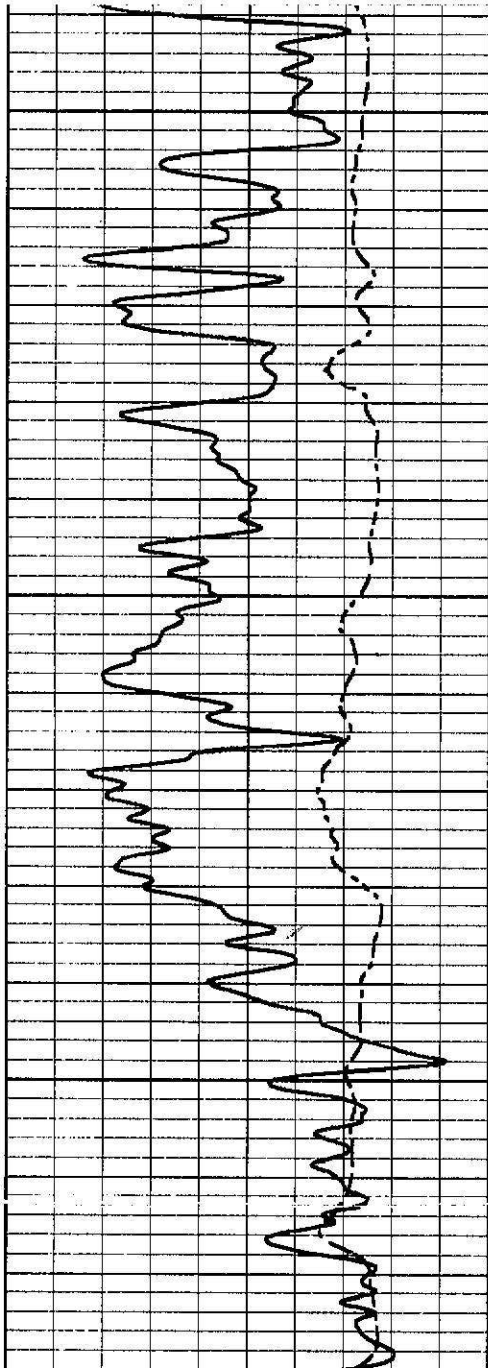


250

300



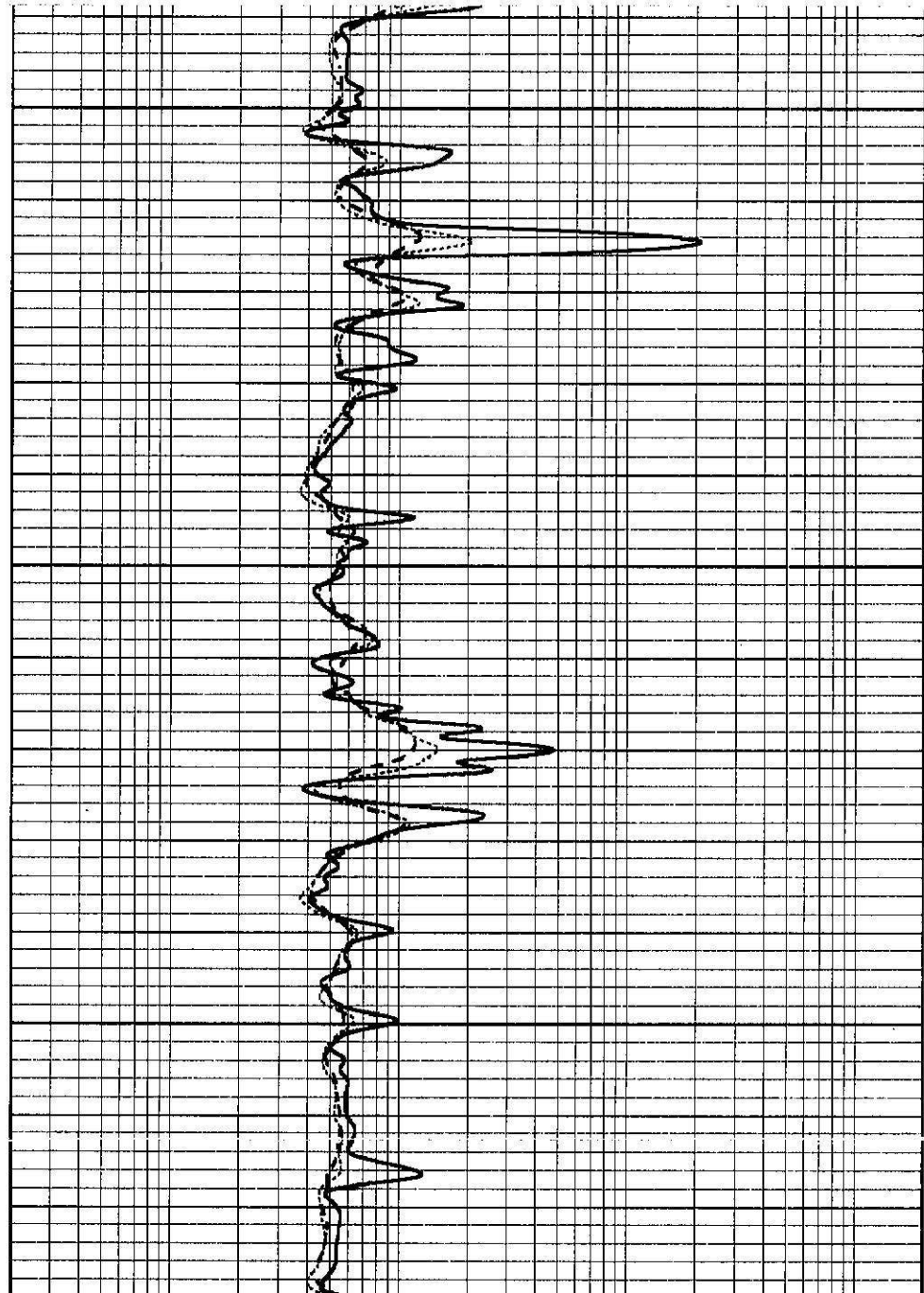


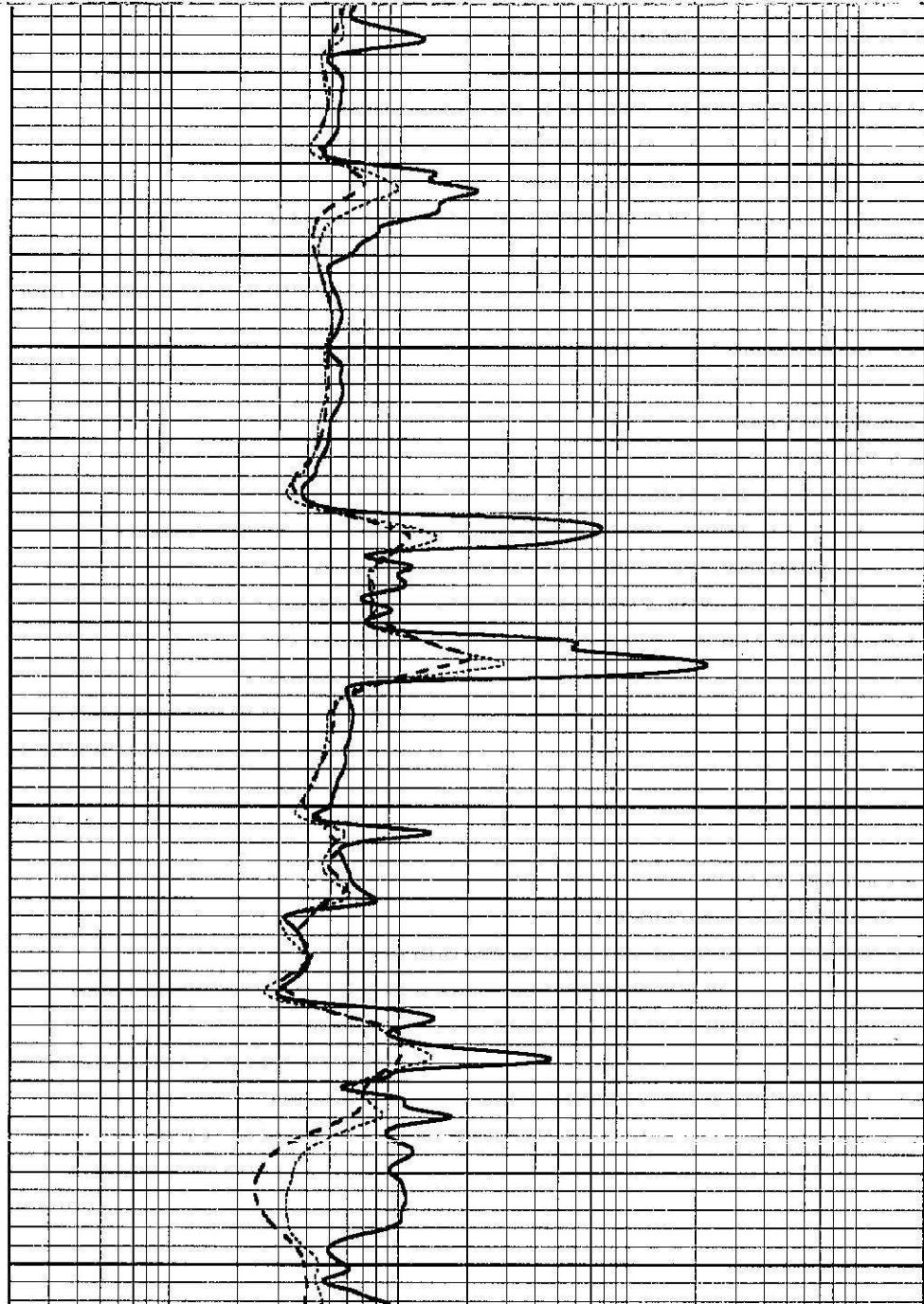
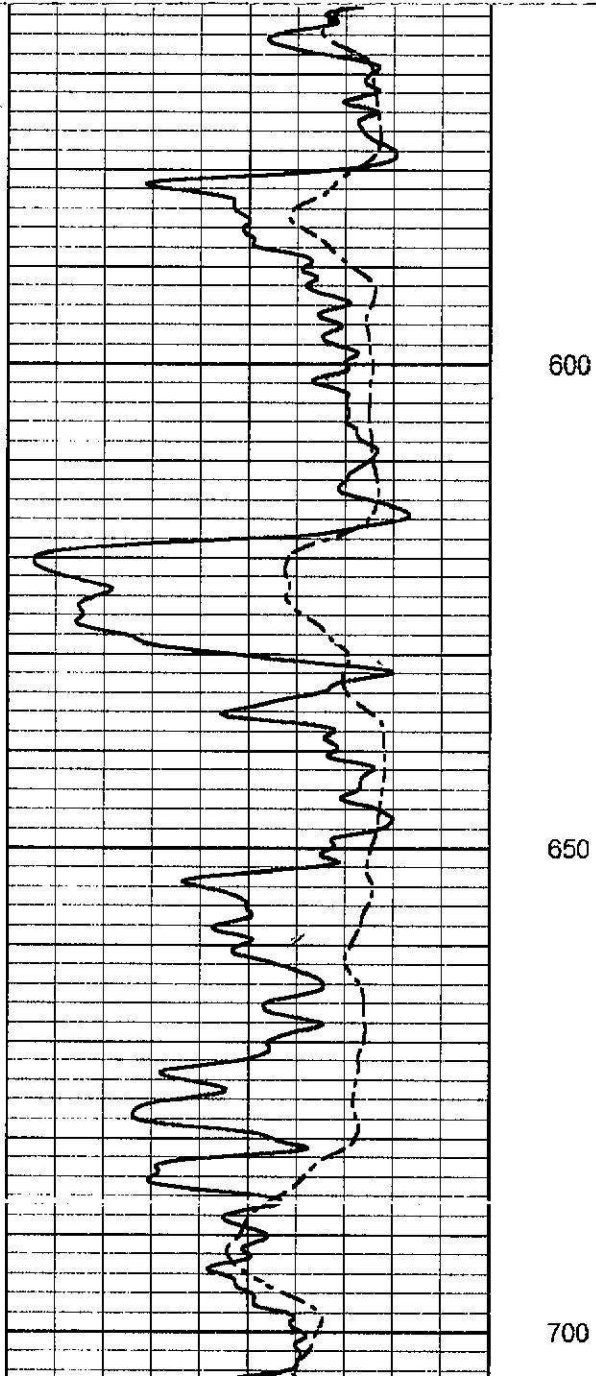


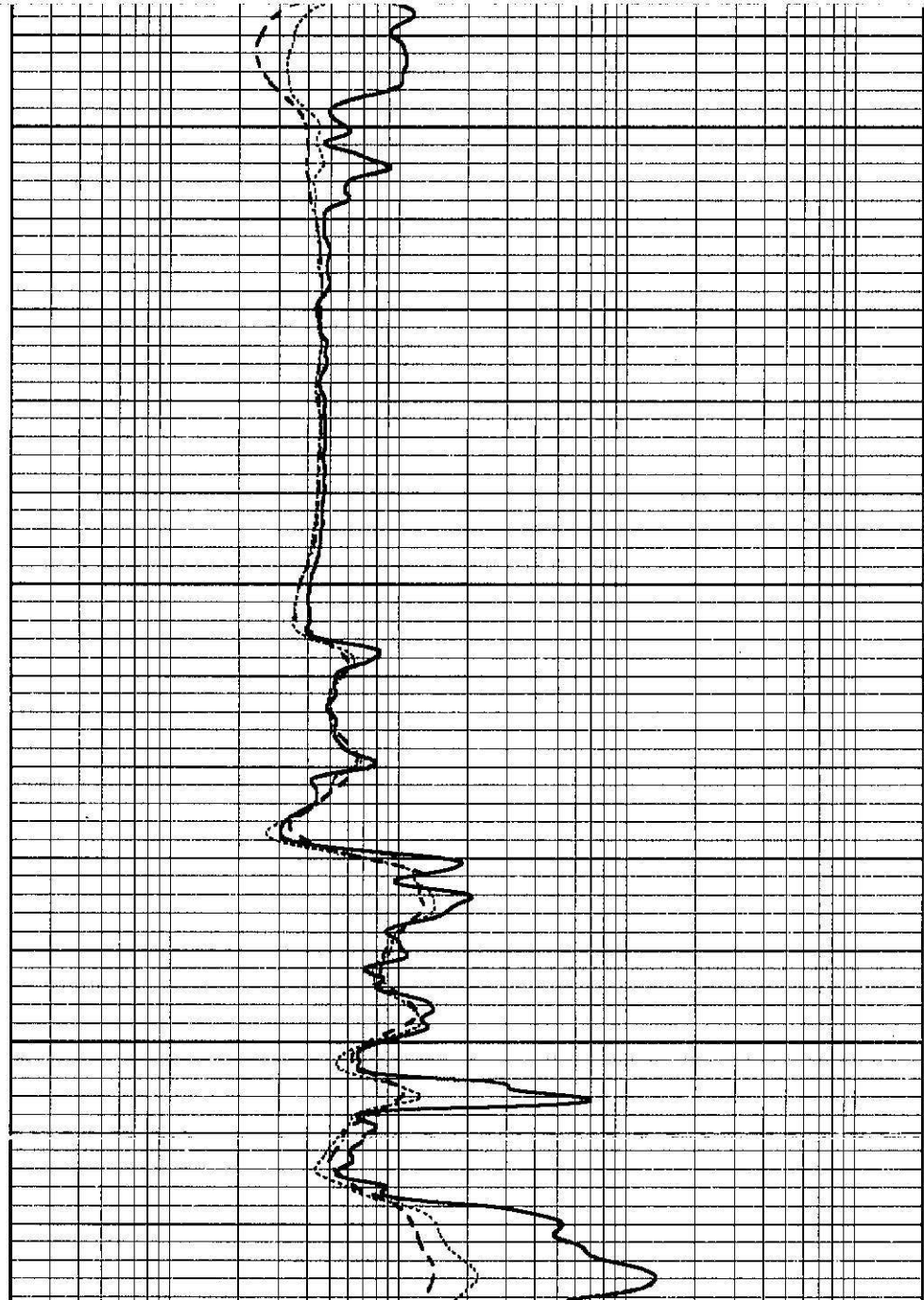
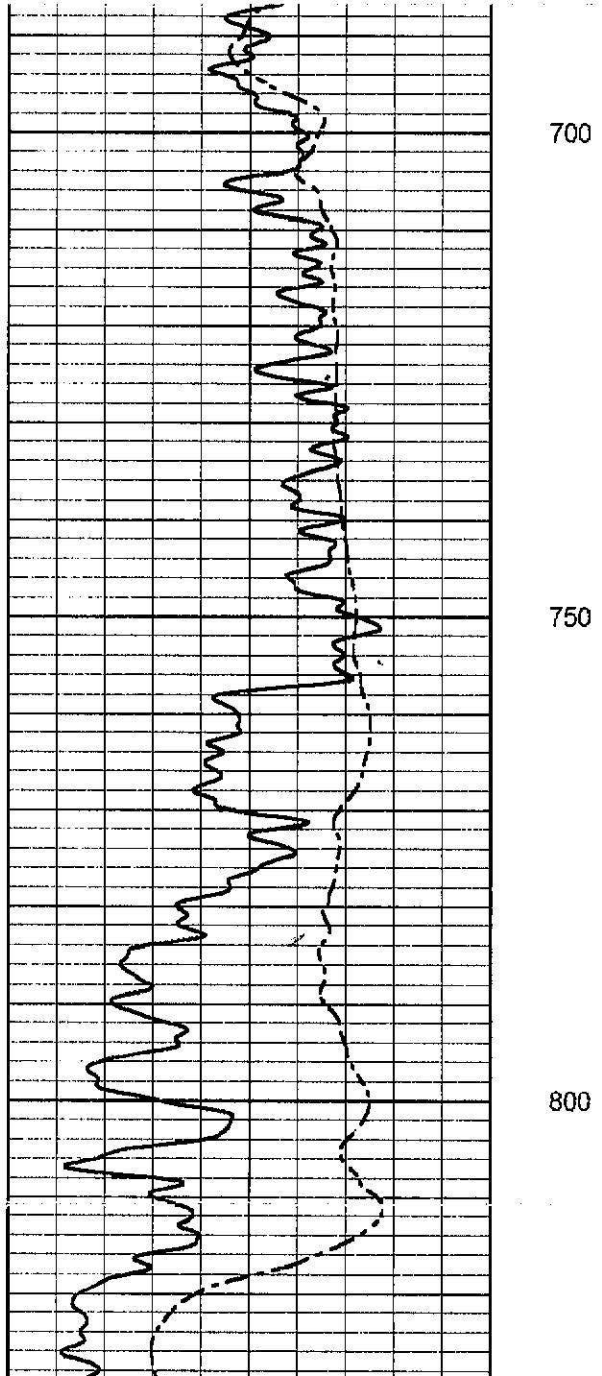
450

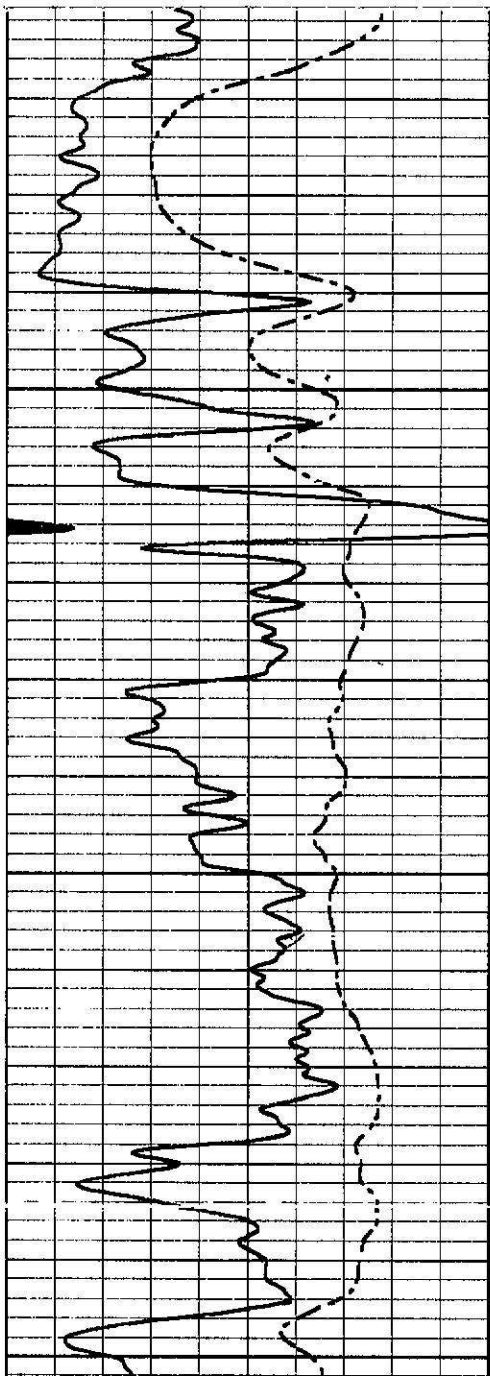
500

550





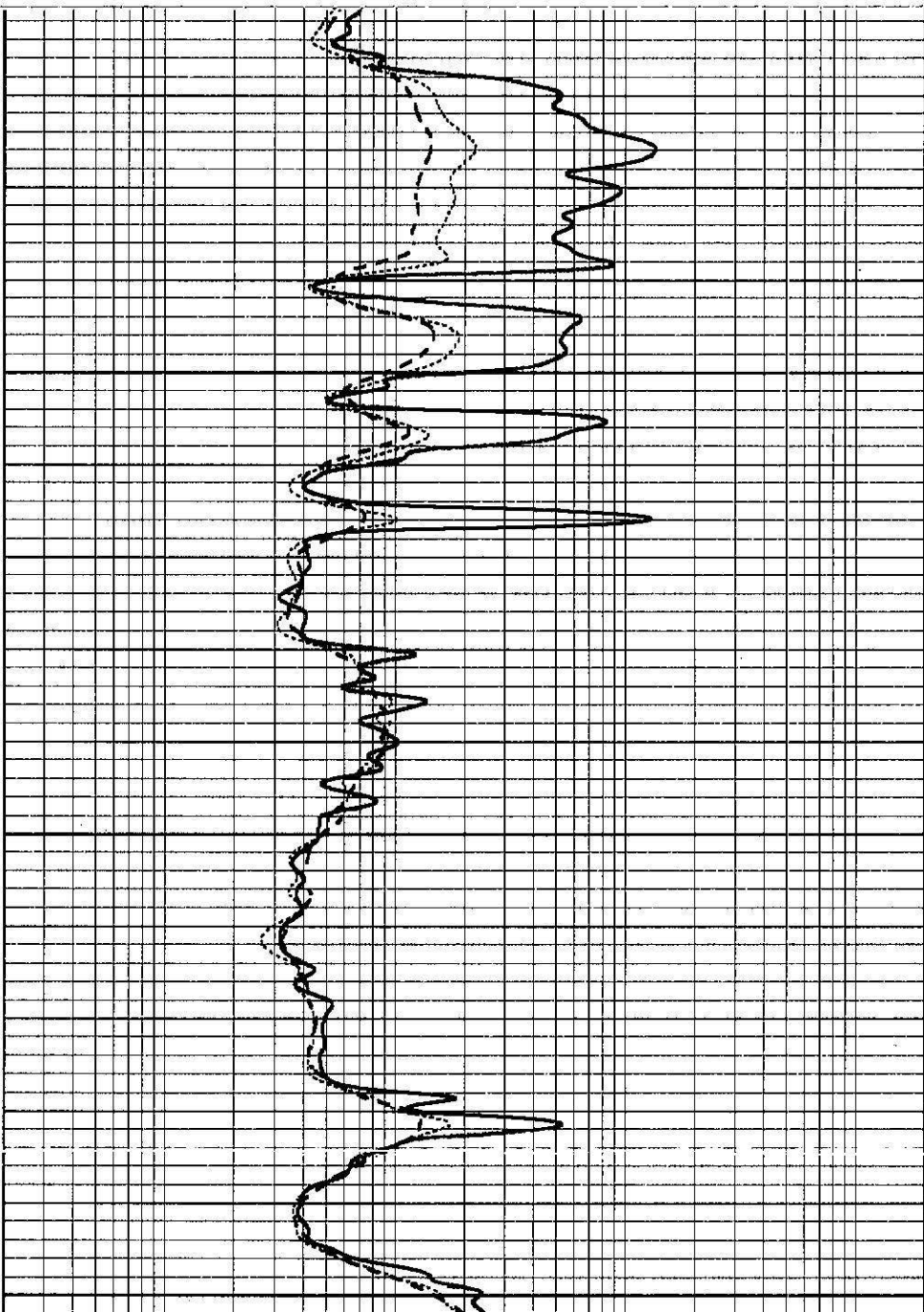


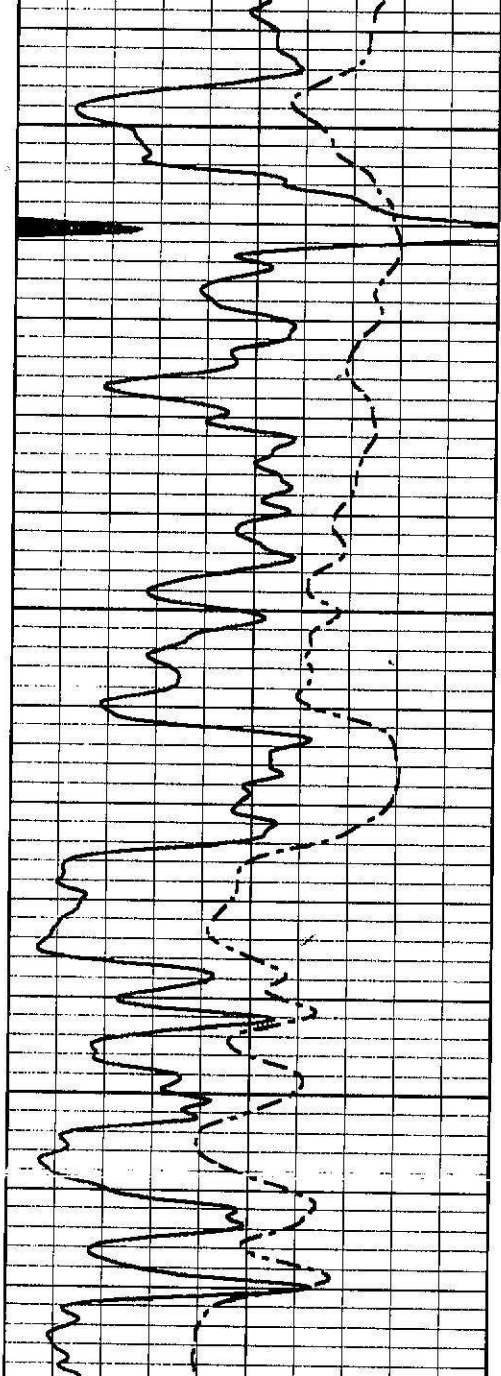


850

900

950

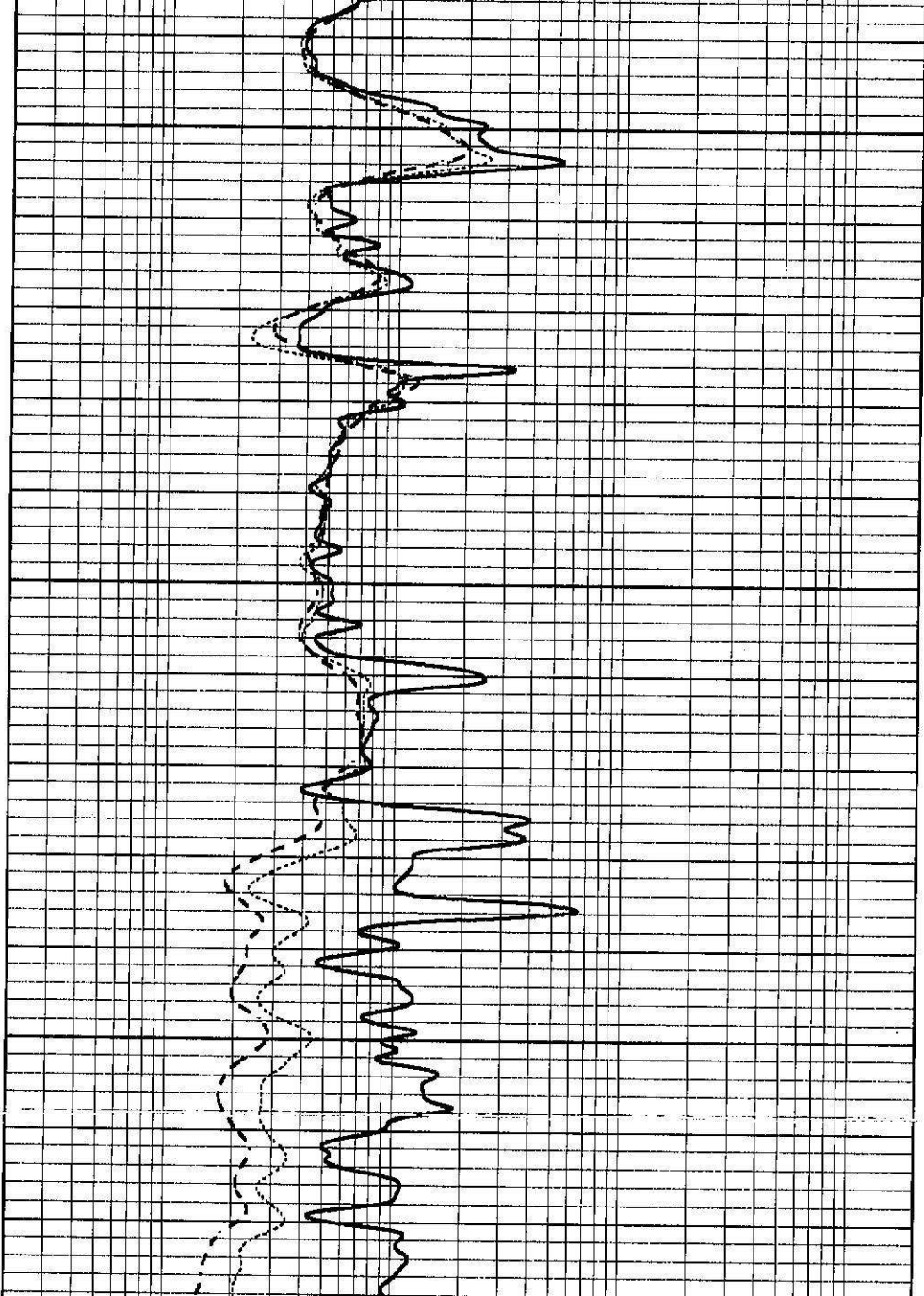


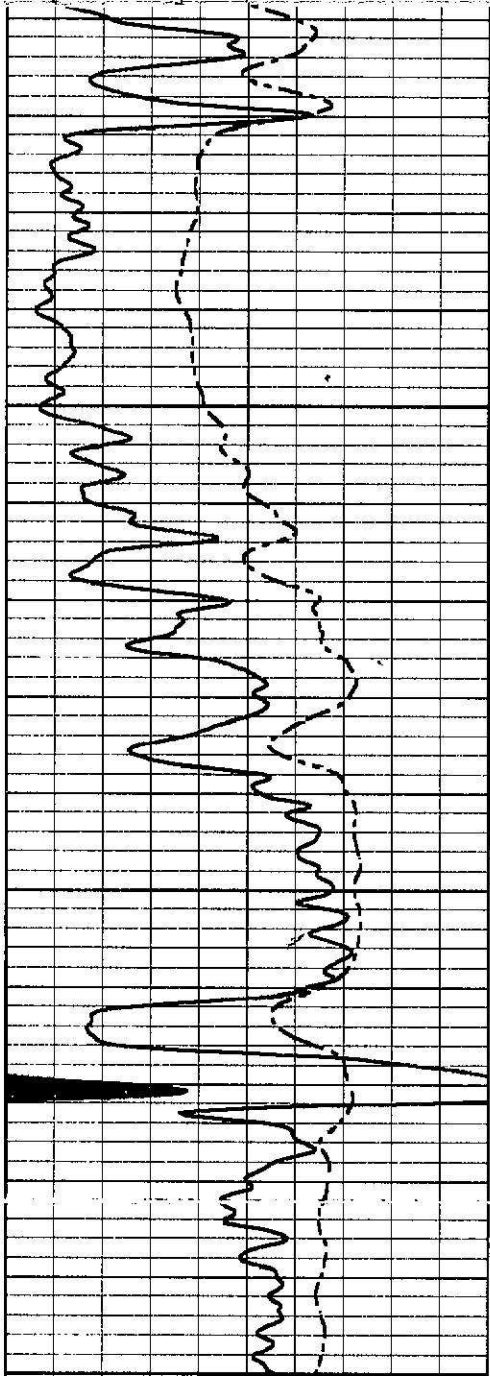


950

1000

1050

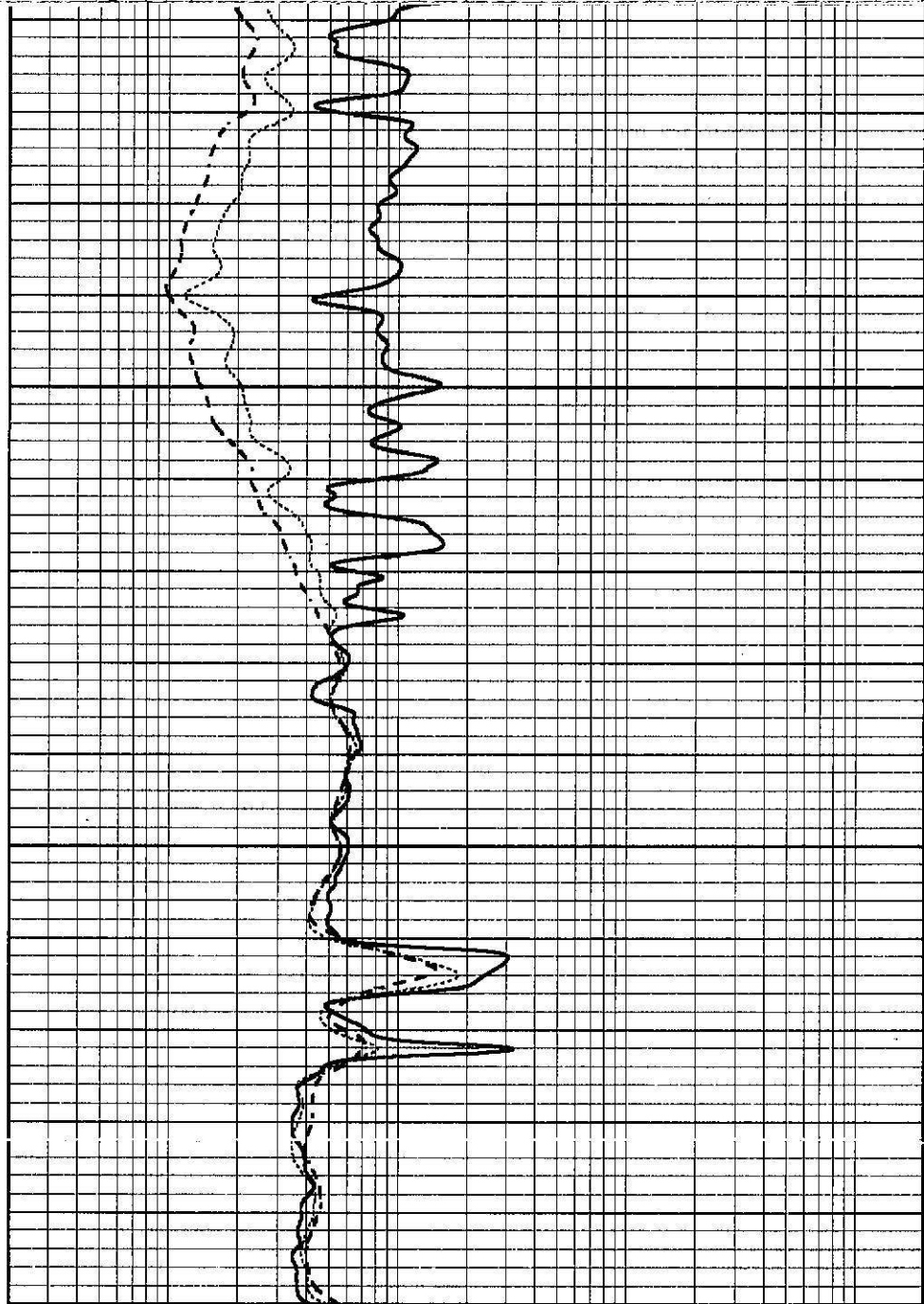




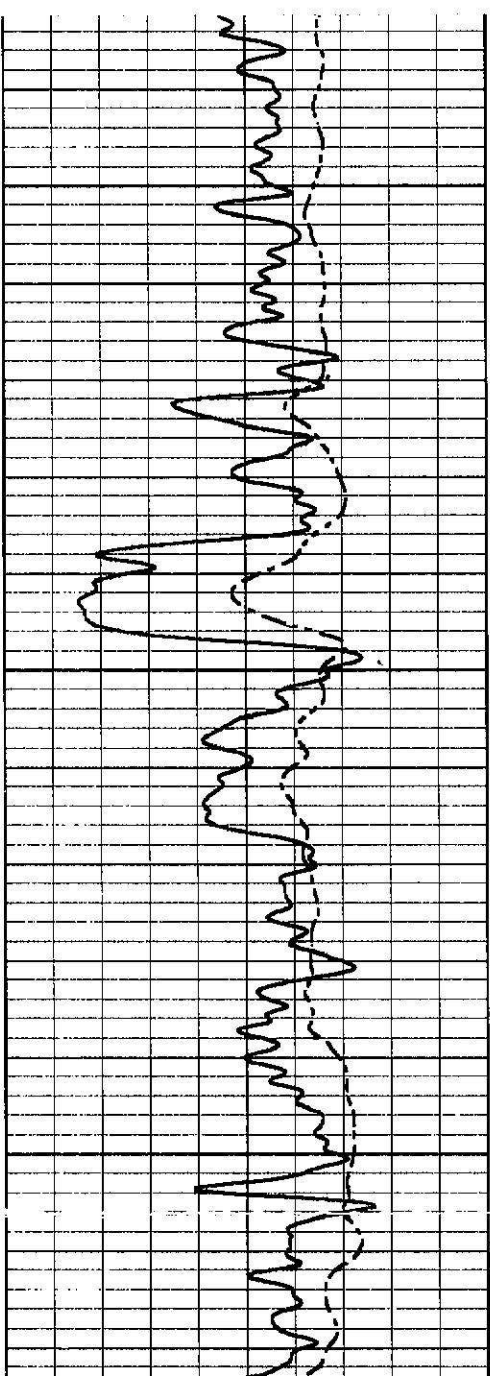
1100

1150

1200



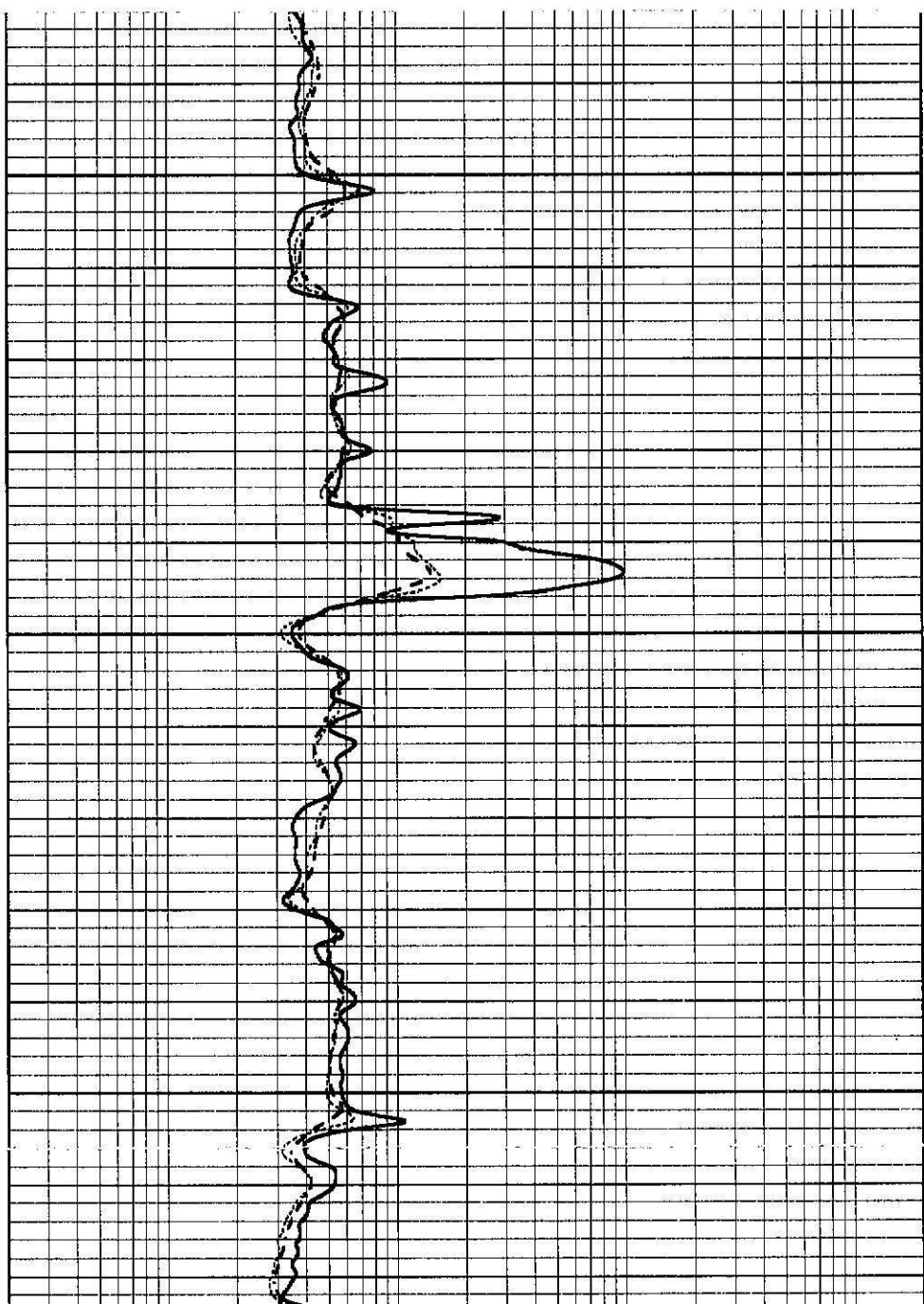


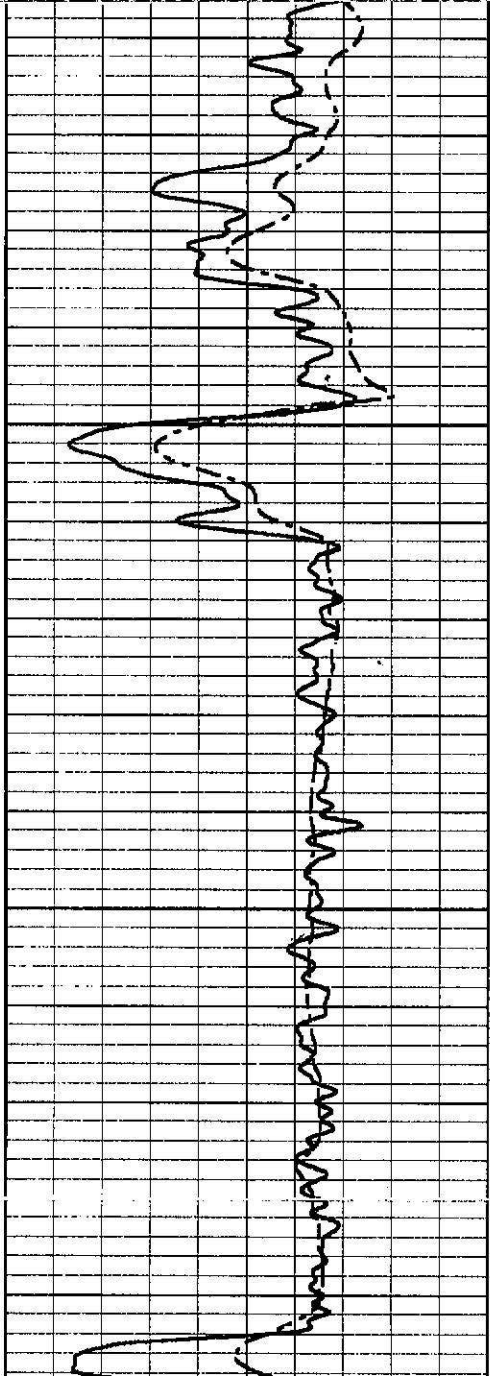


1200

1250

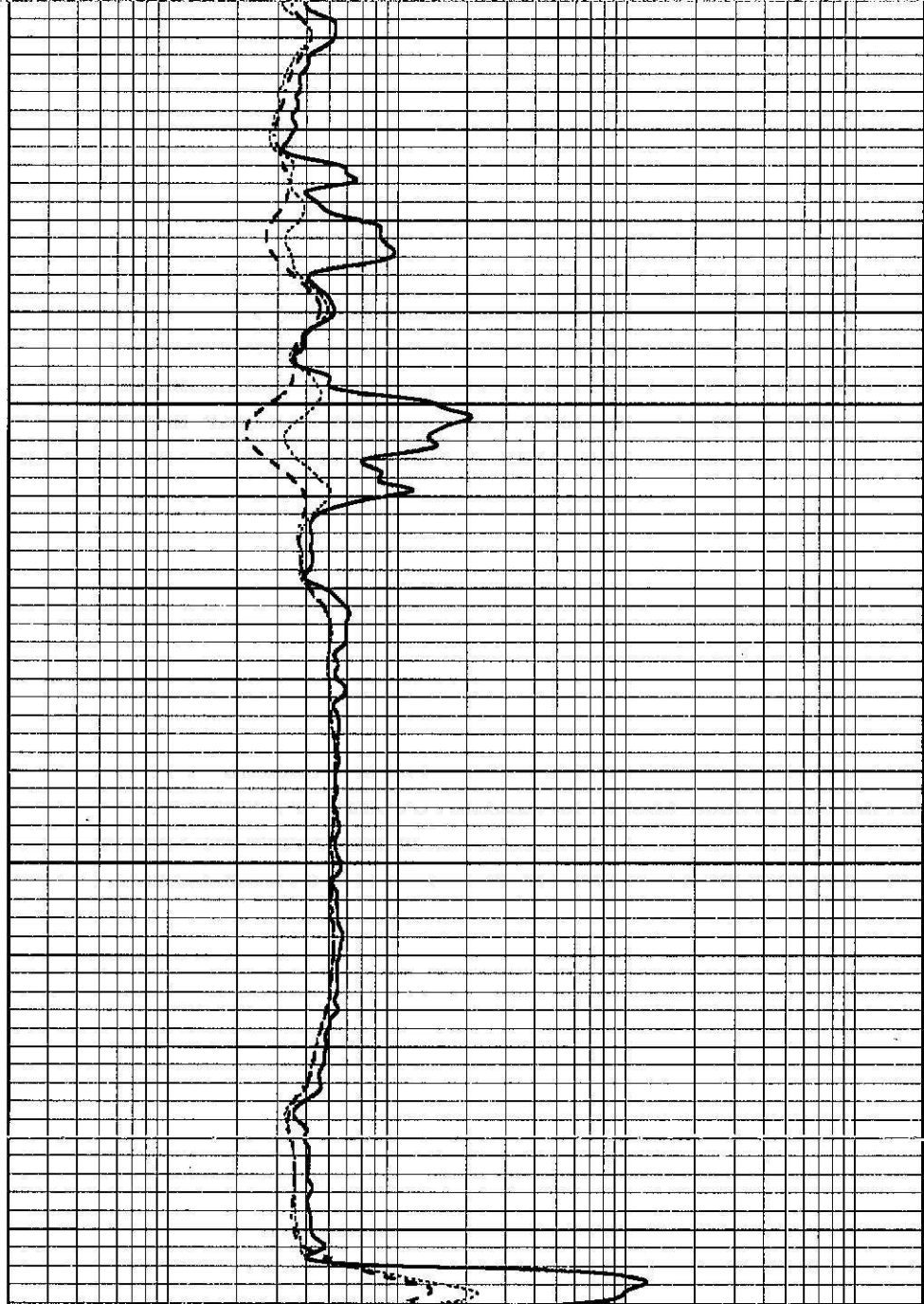
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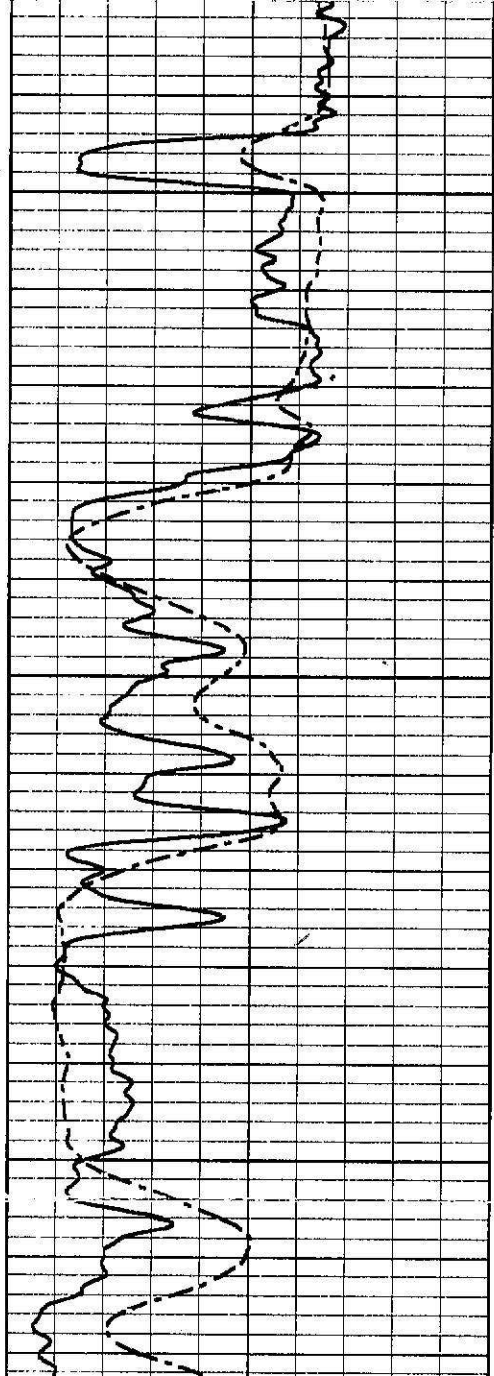




1350

1400

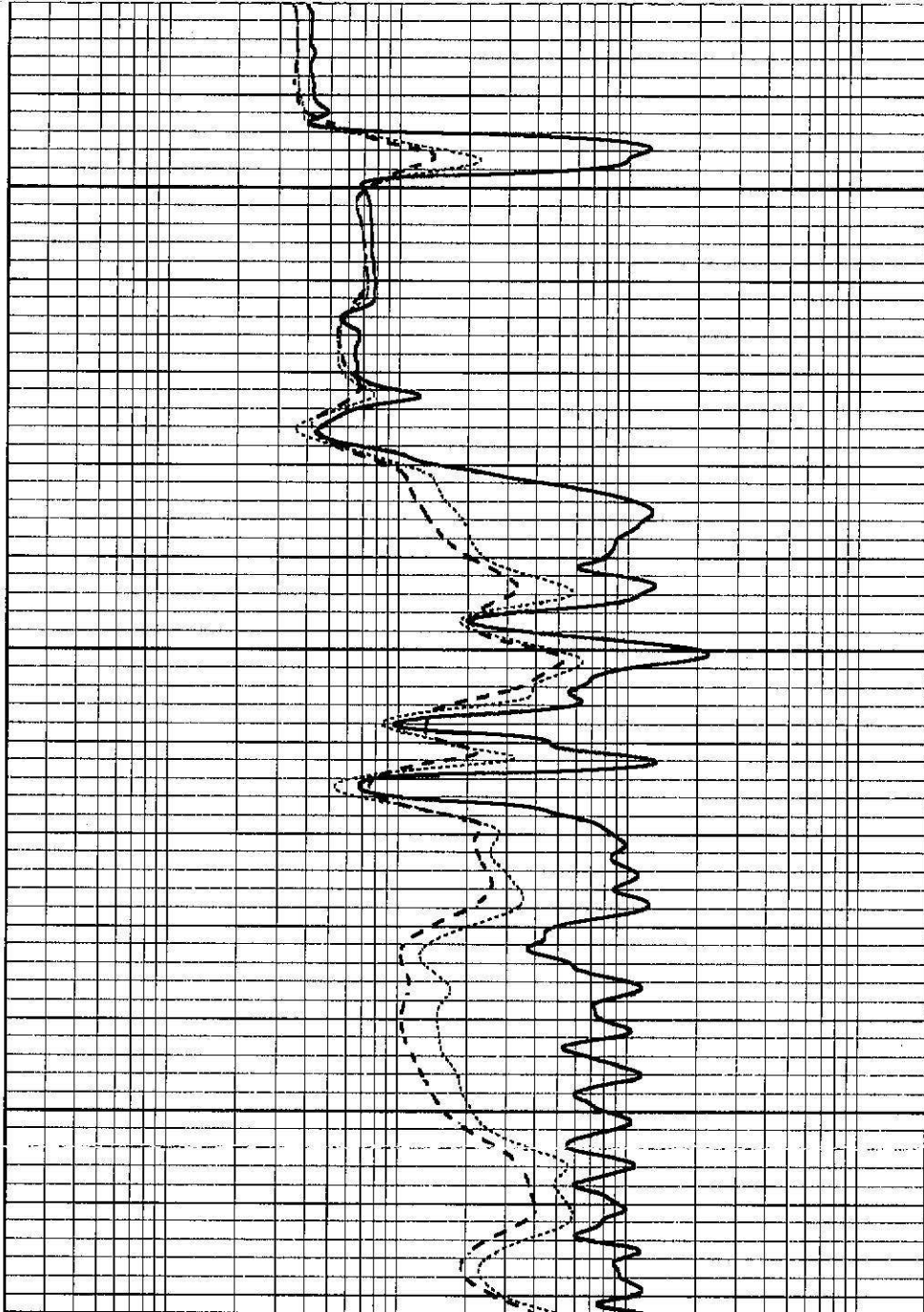


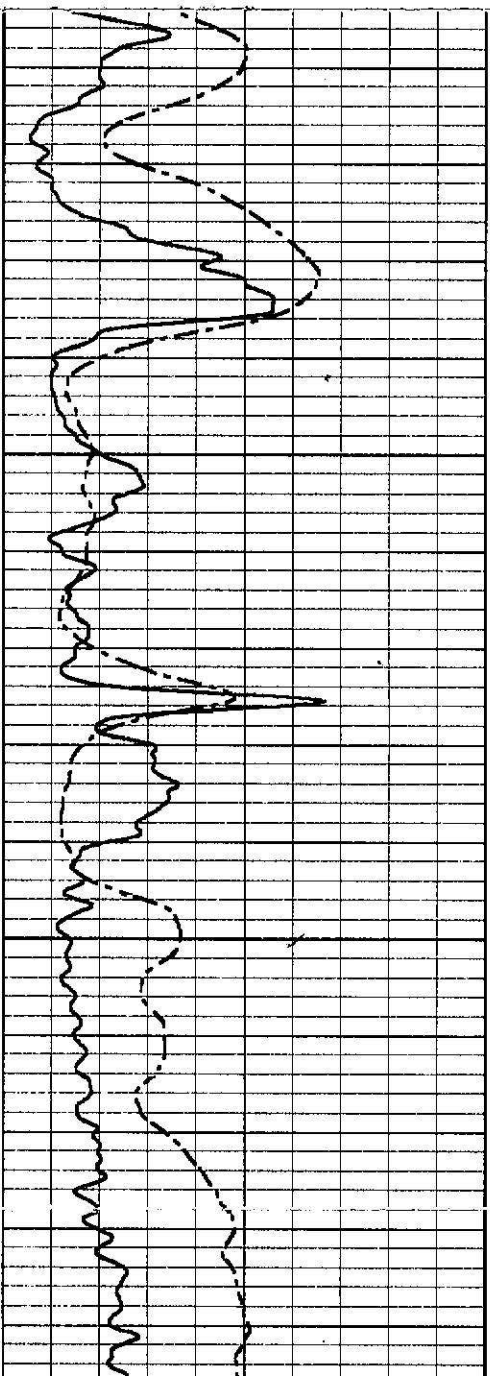


1450

1500

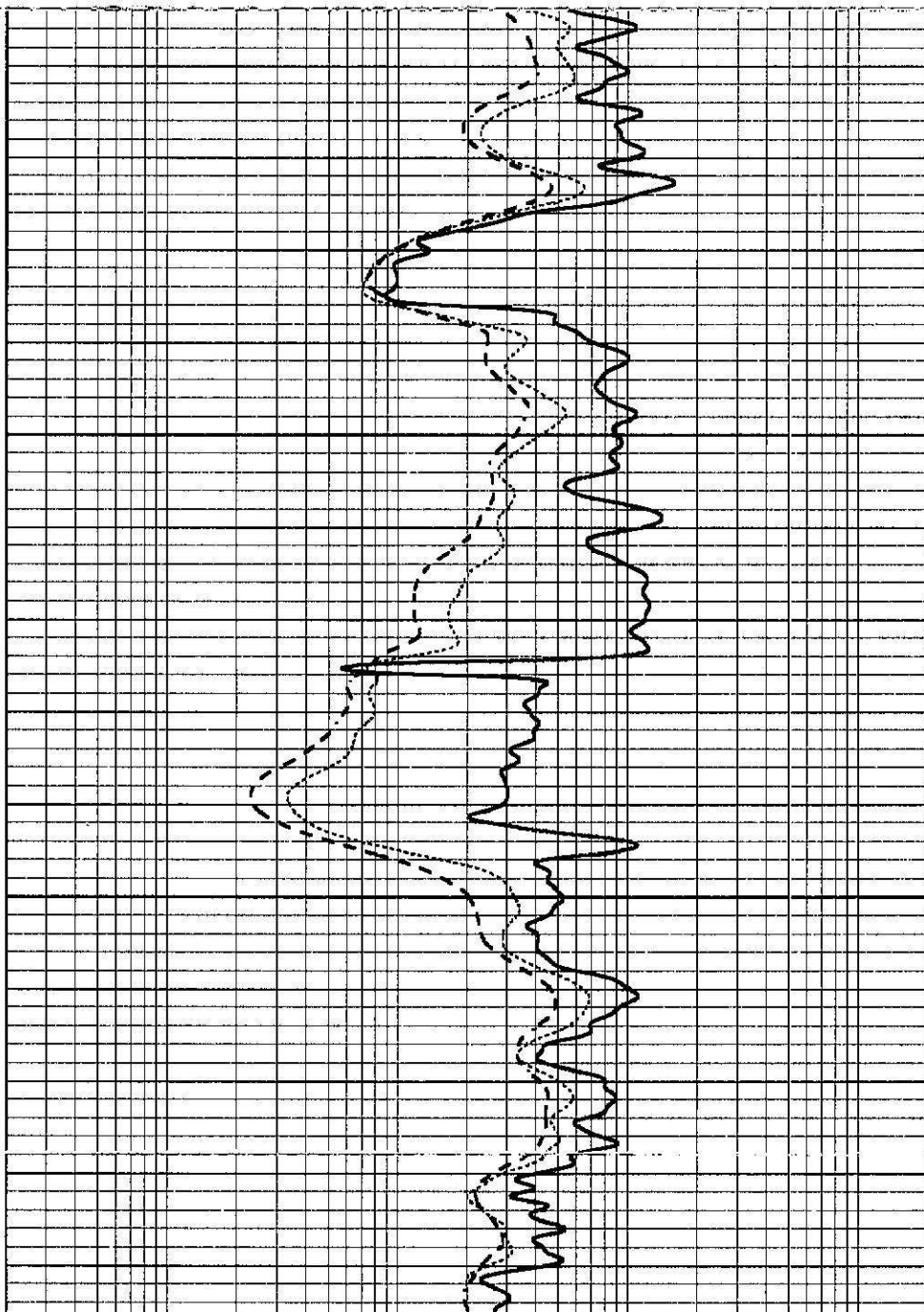
1550

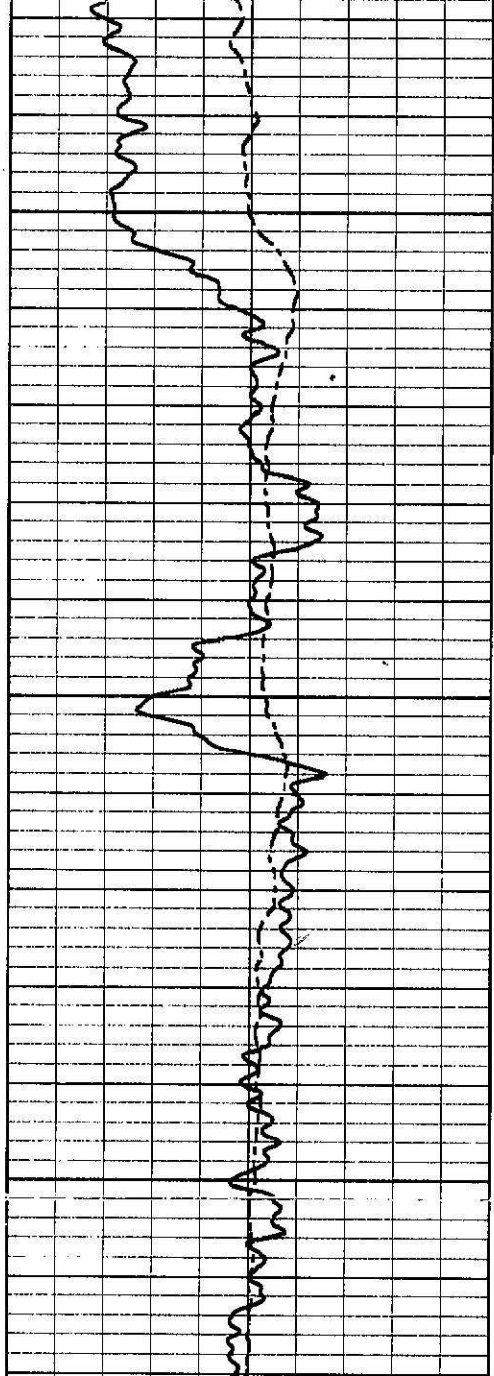




1600

1650

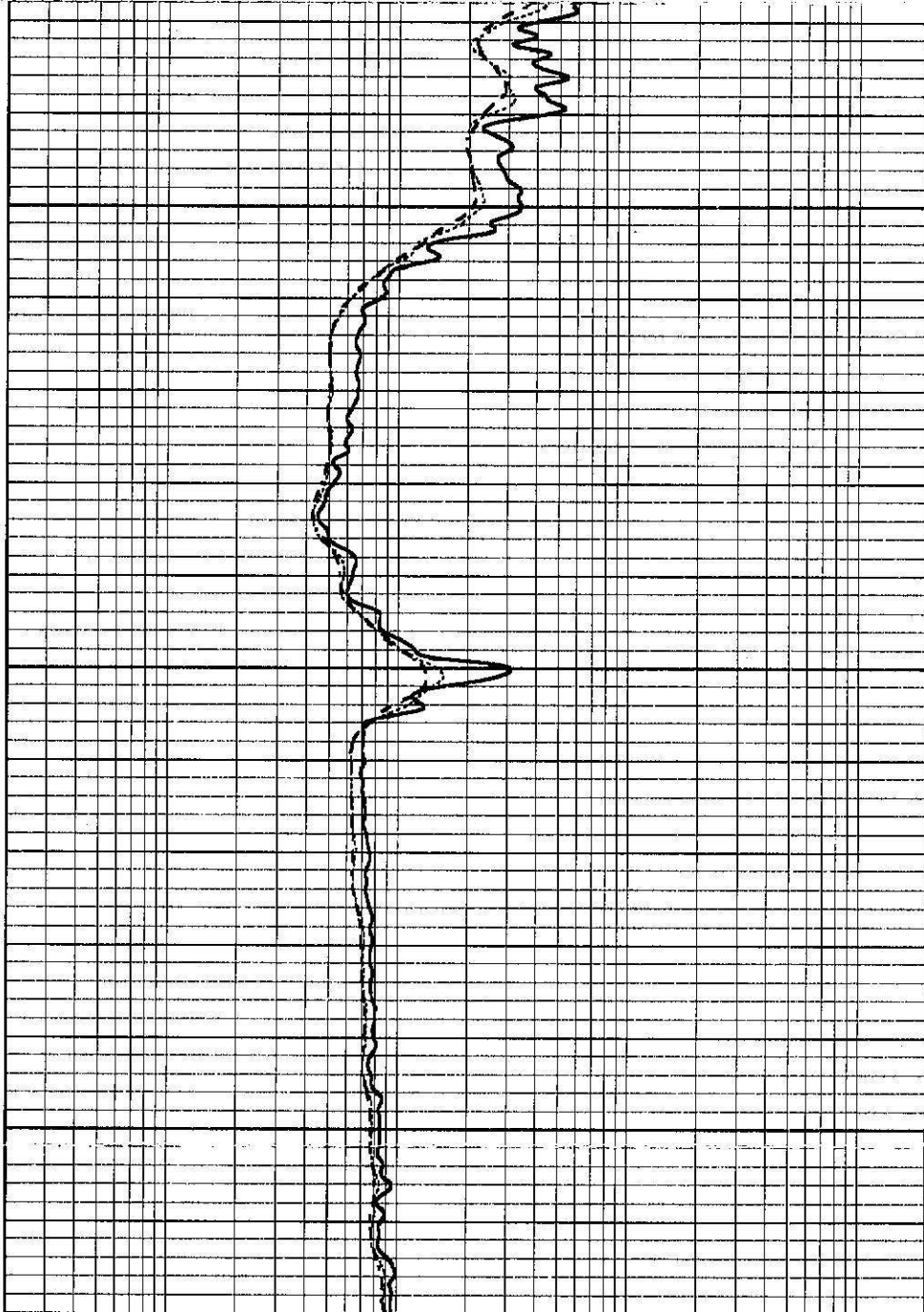


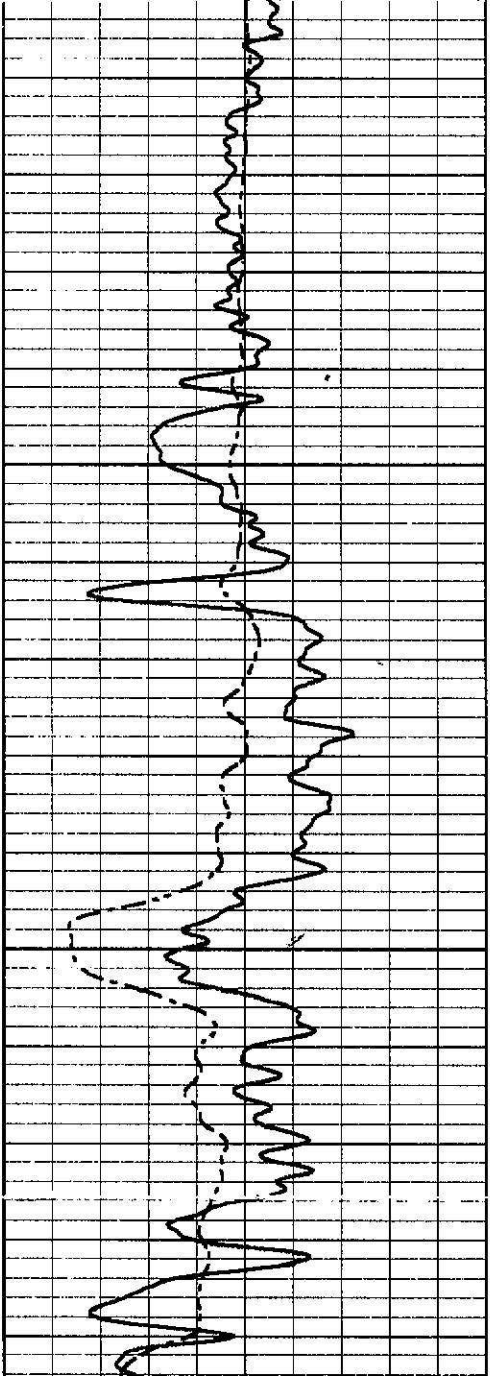


1700

1750

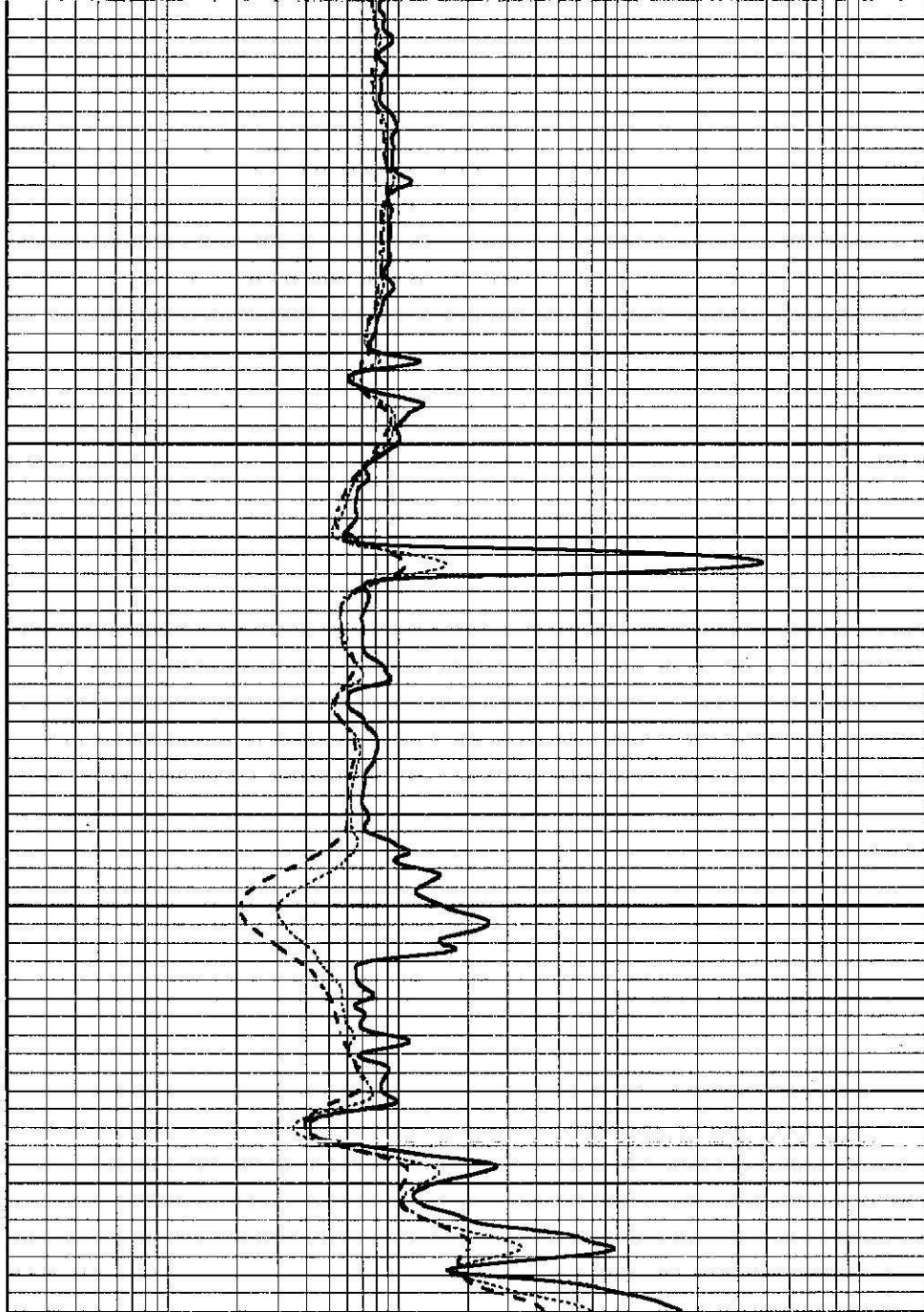
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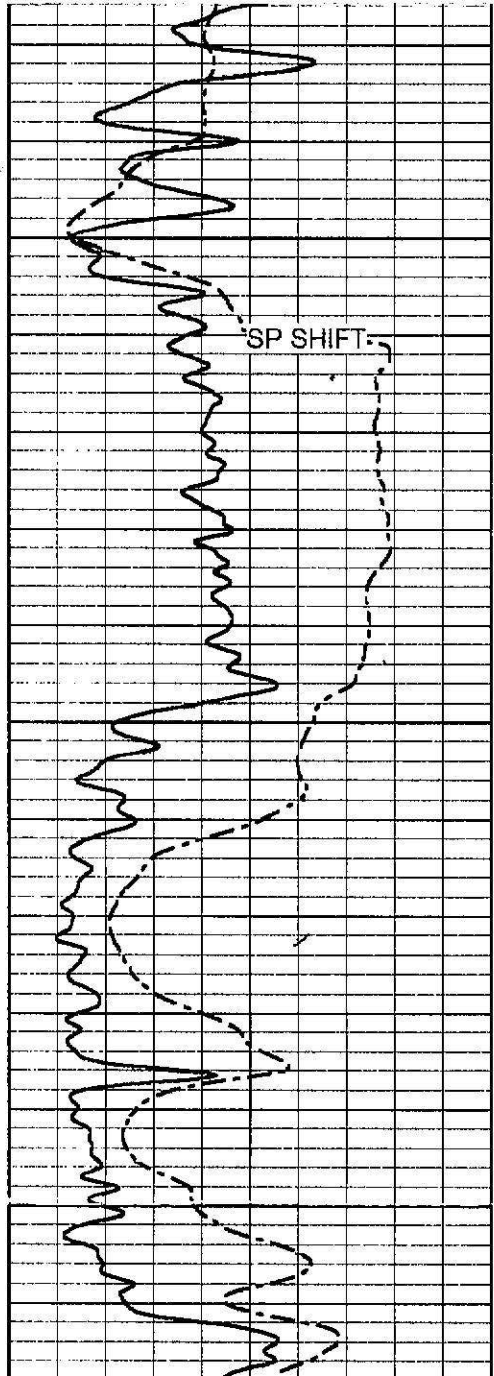




1850

1900

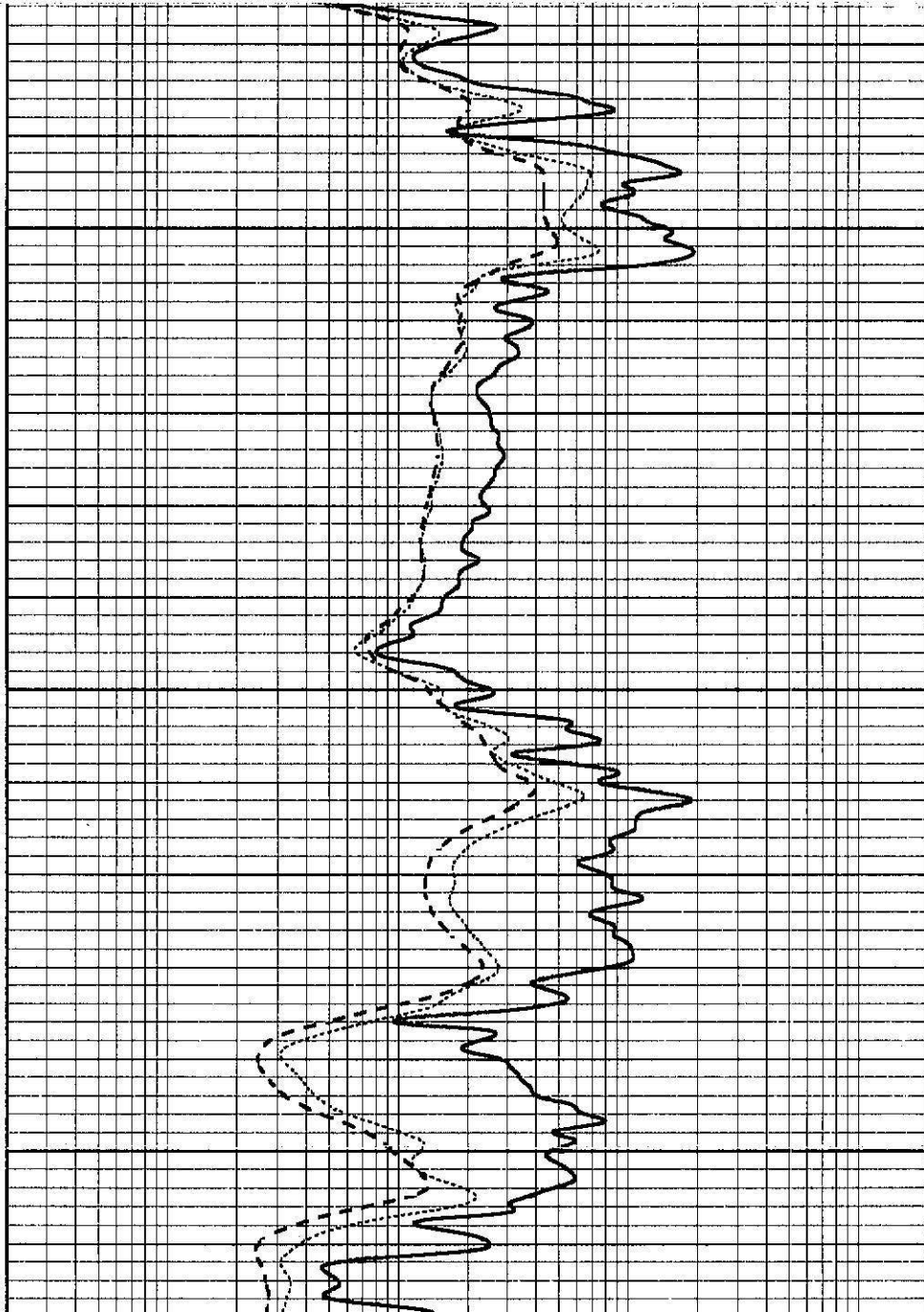


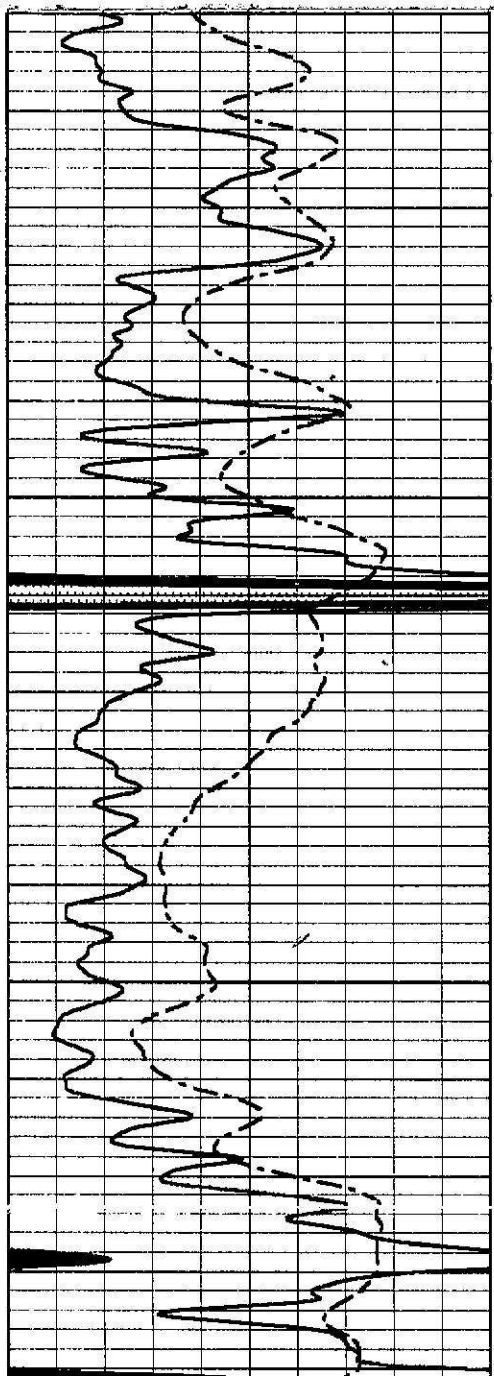


1950

2000

2050

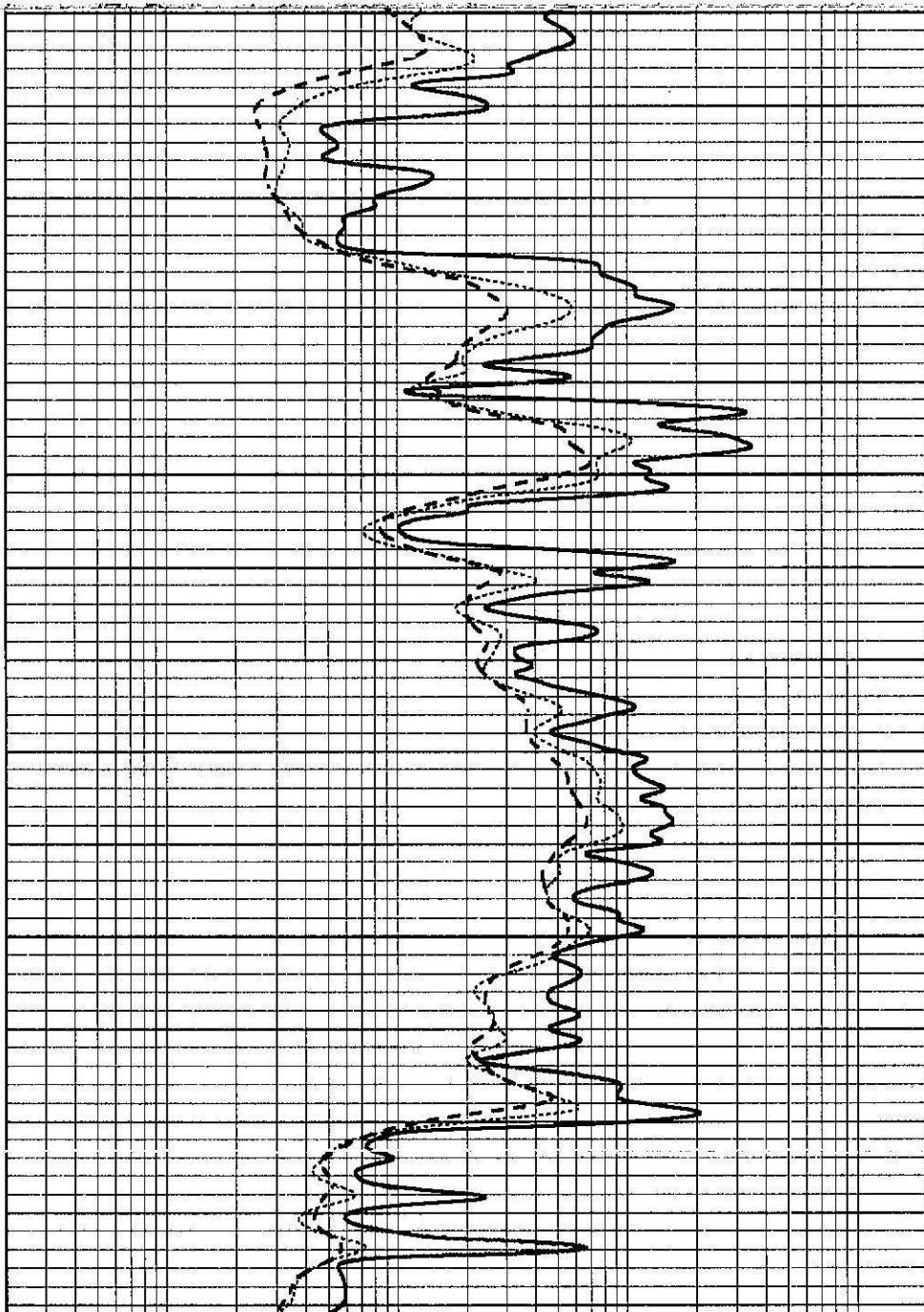




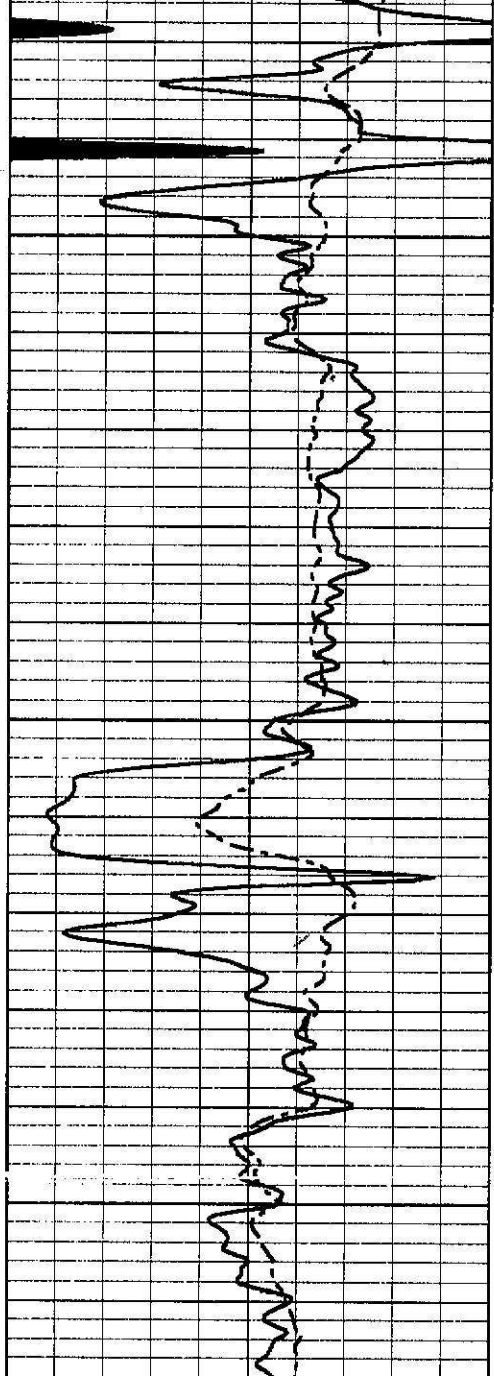
2000

2100

2150



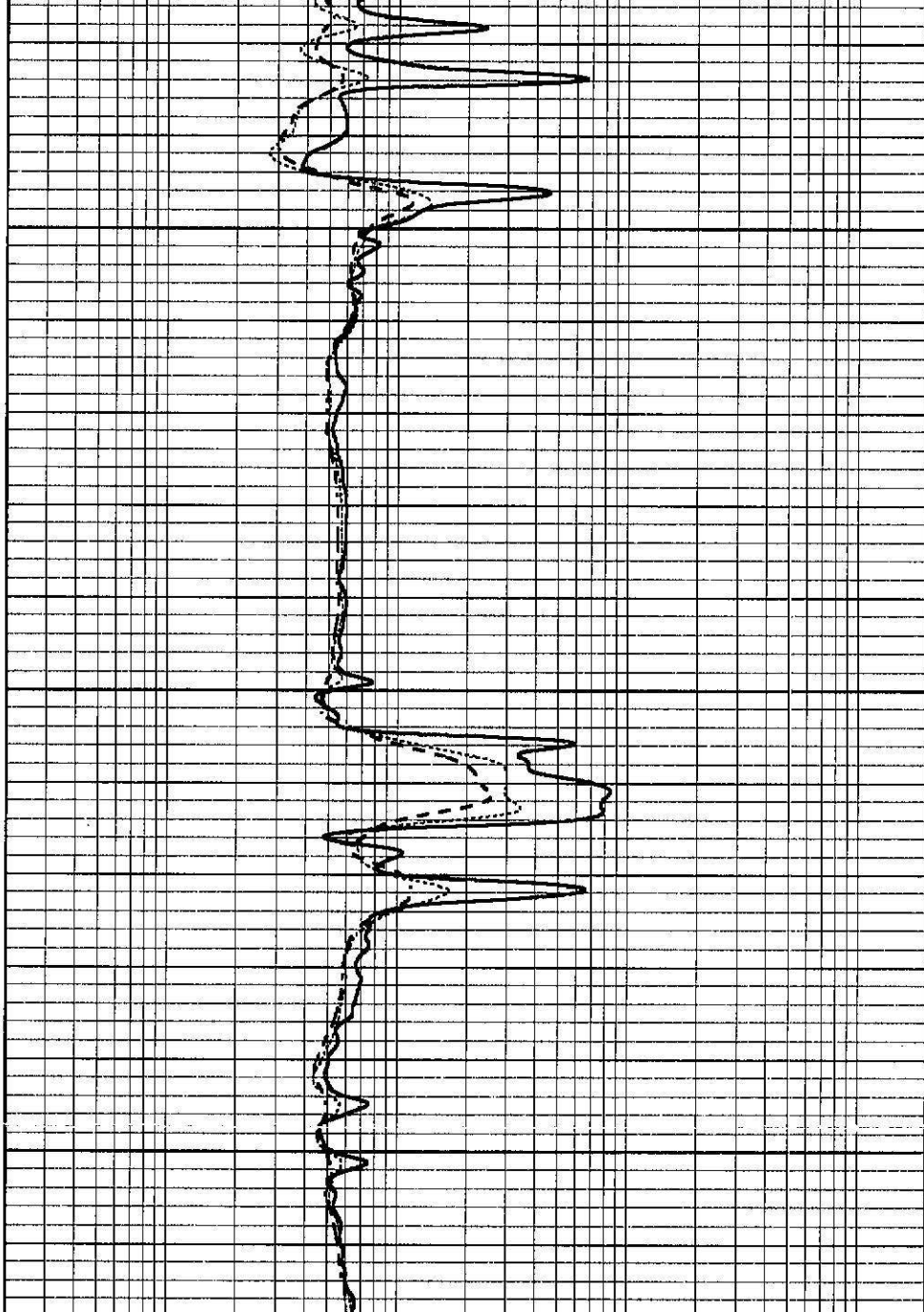


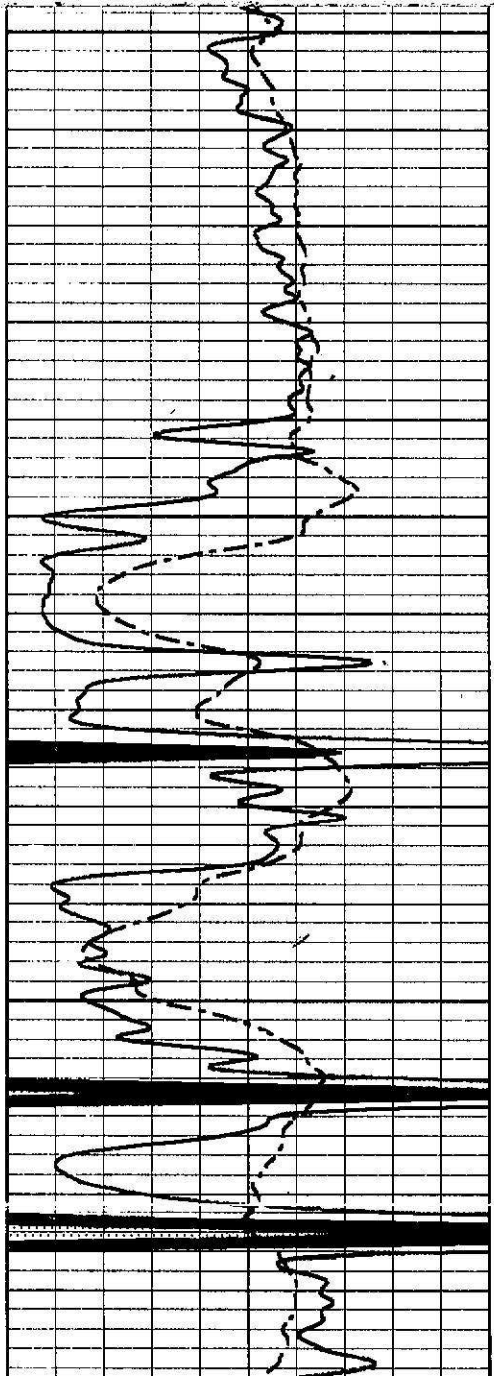


2200

2250

2300

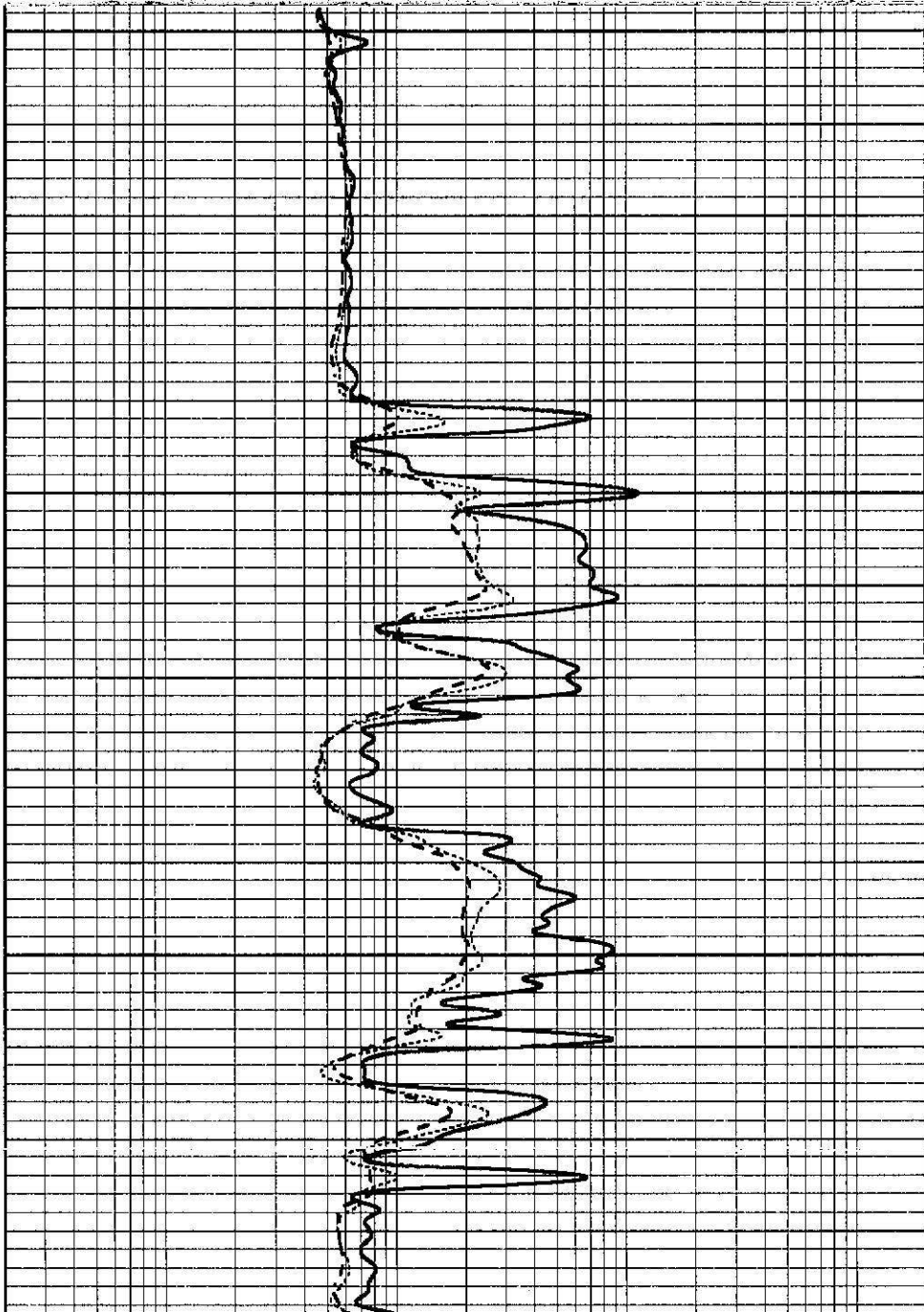


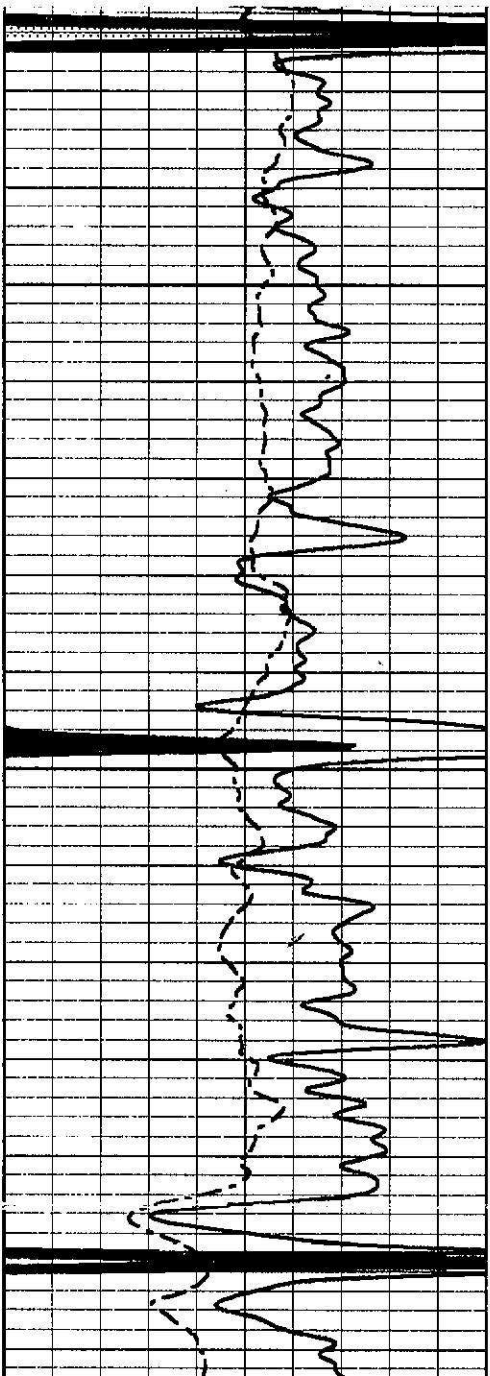


2300

2350

2400

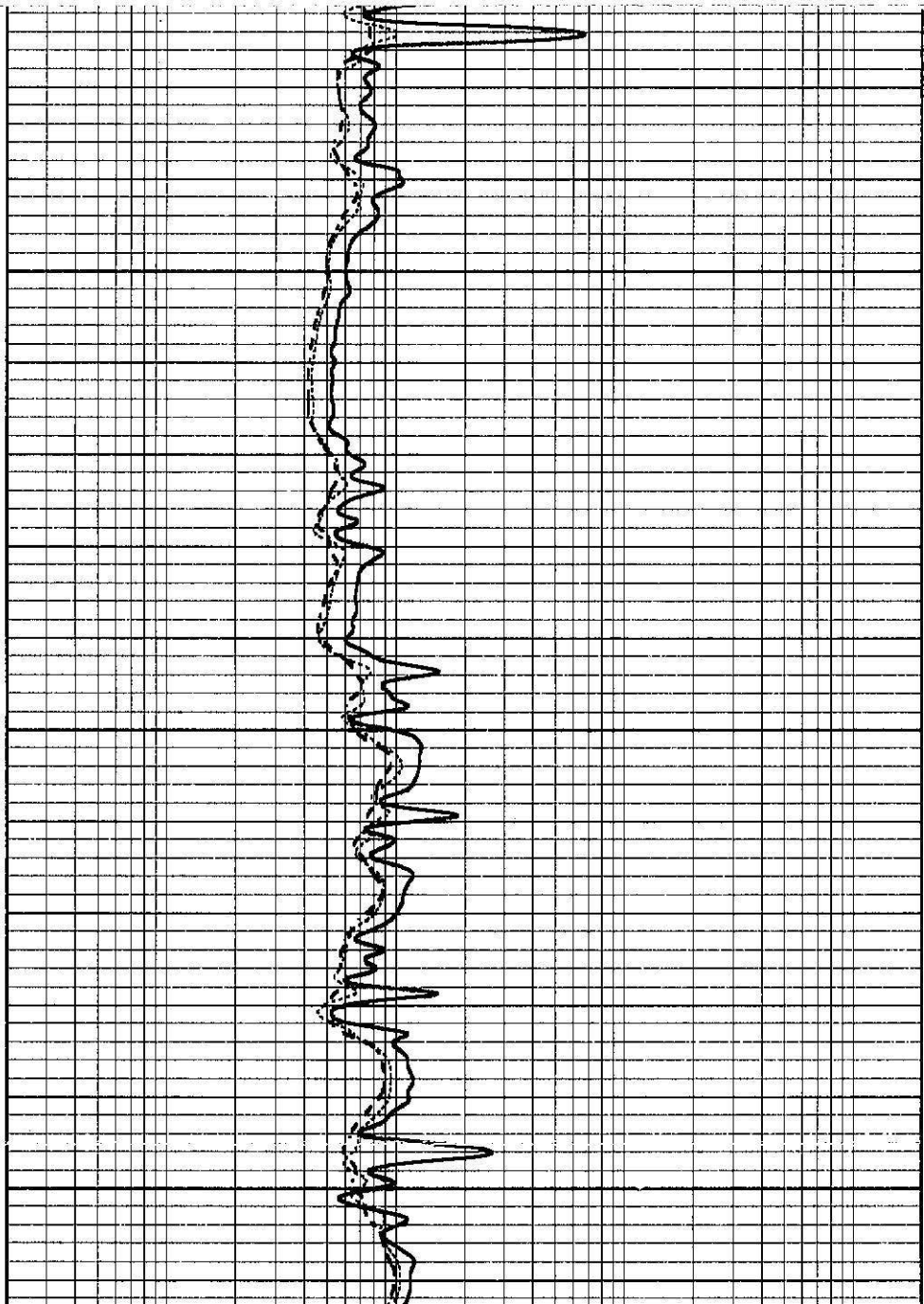


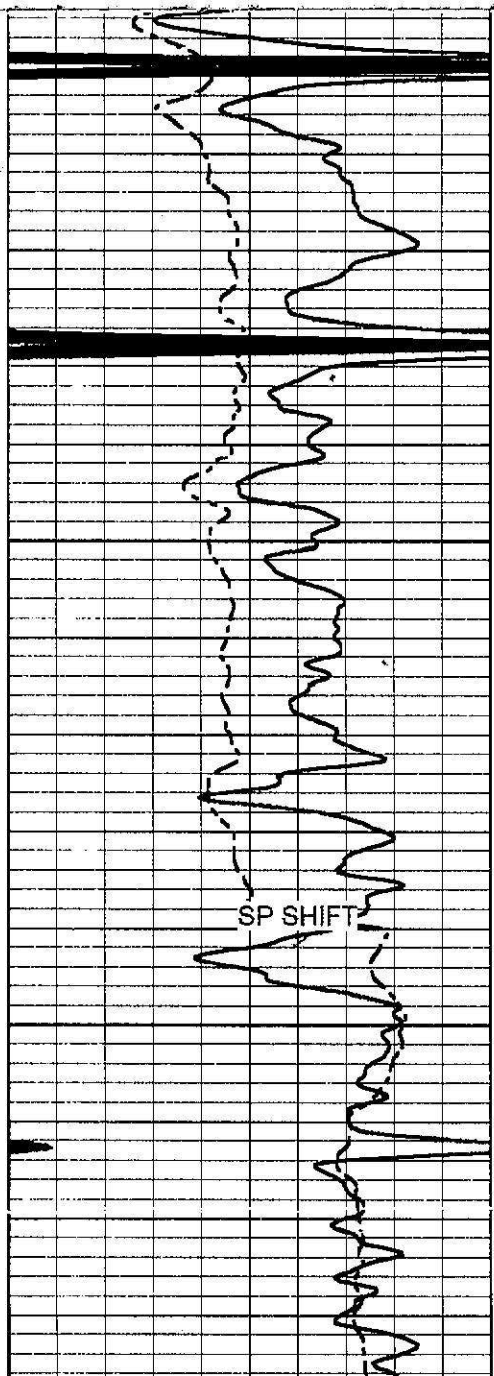


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2550

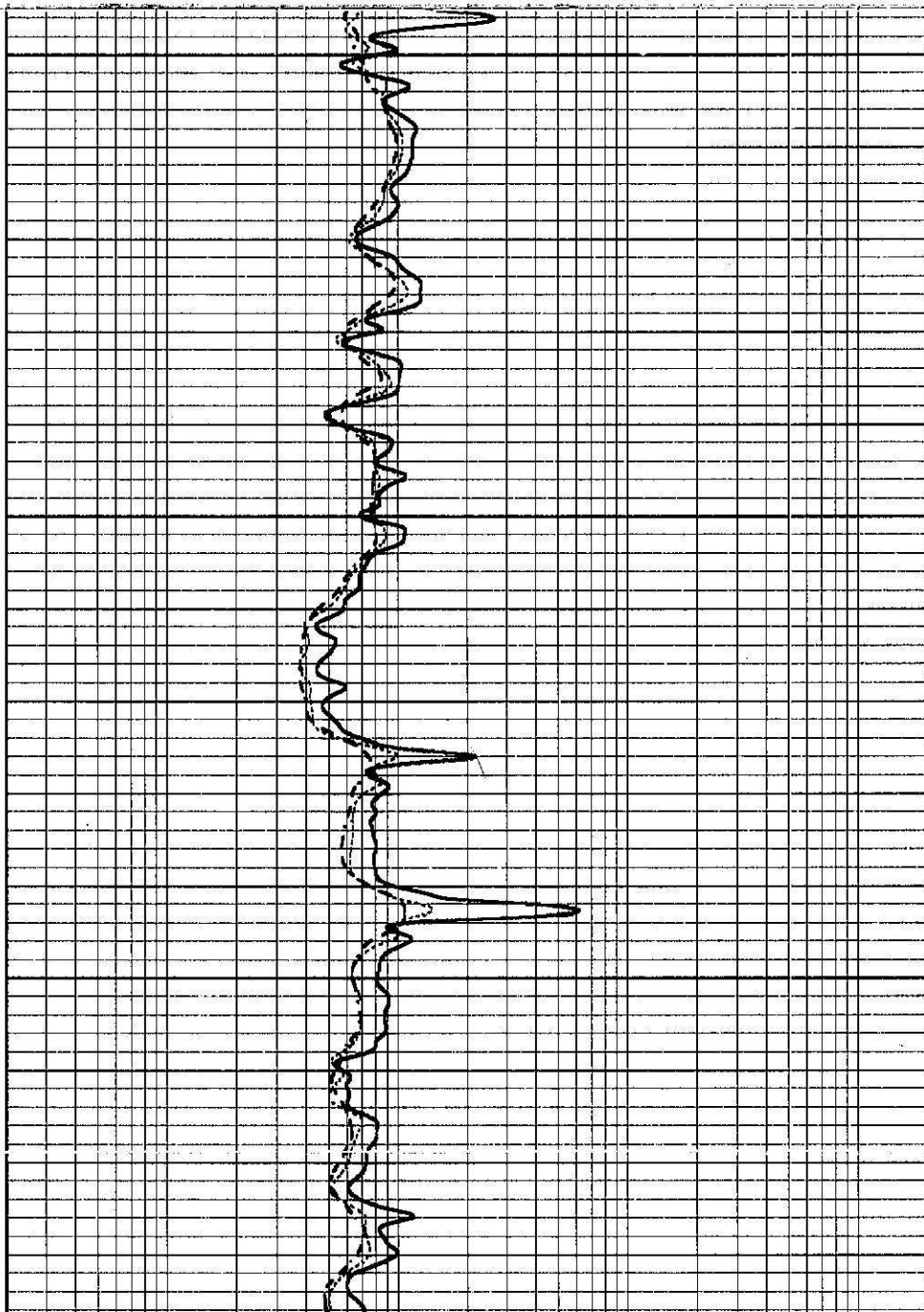


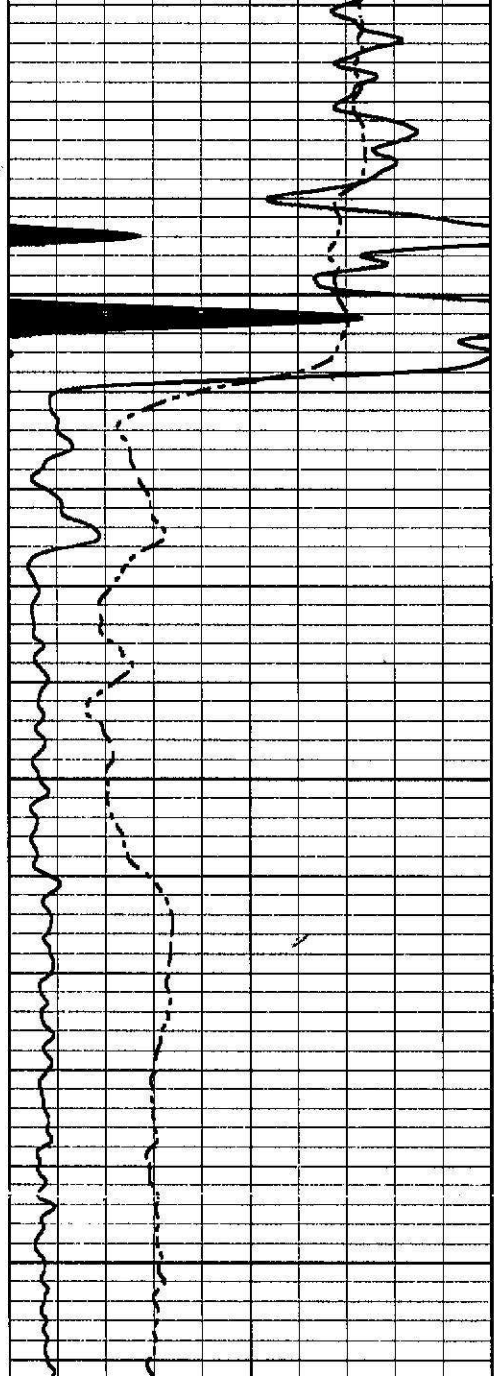


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2600

2650

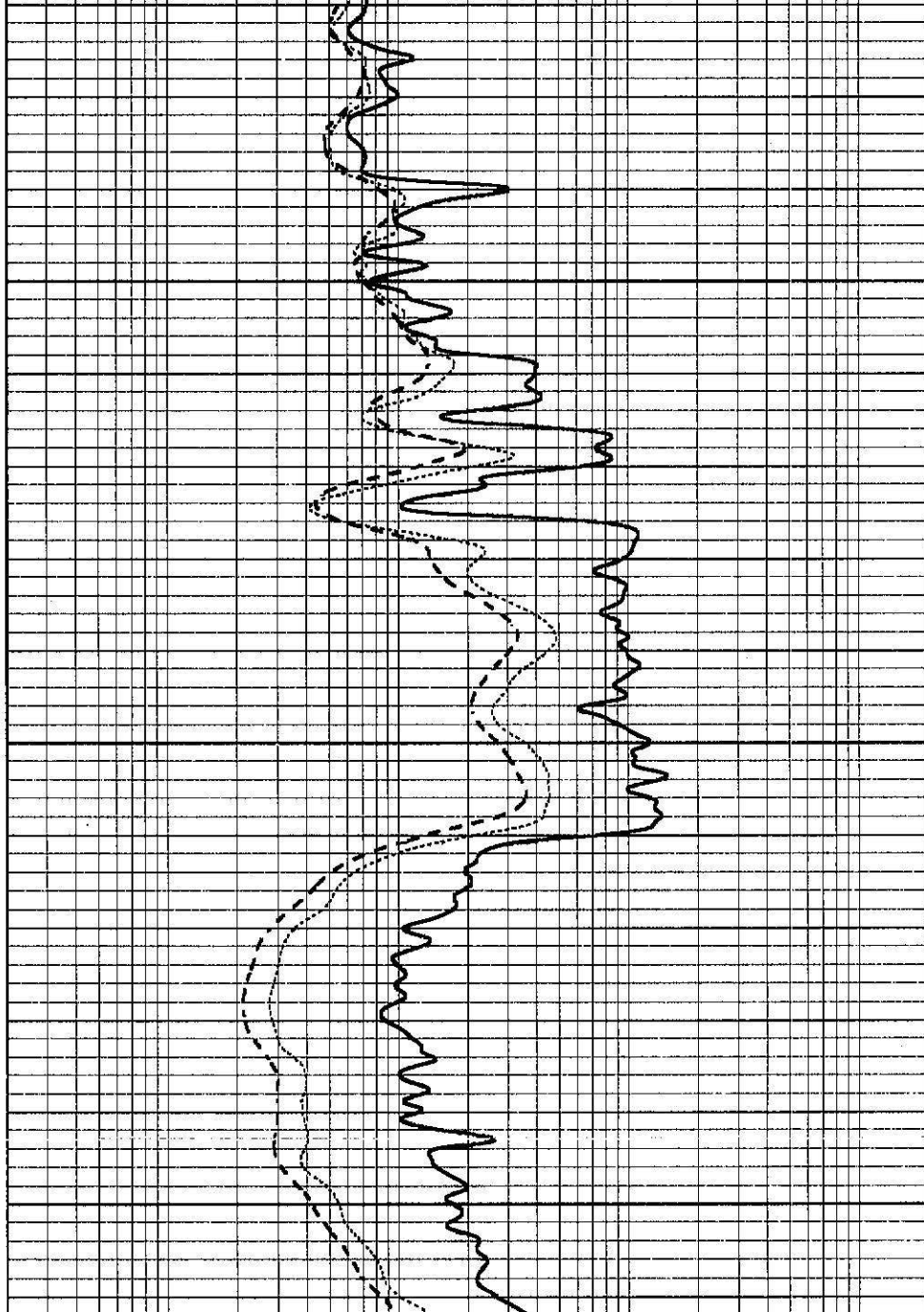


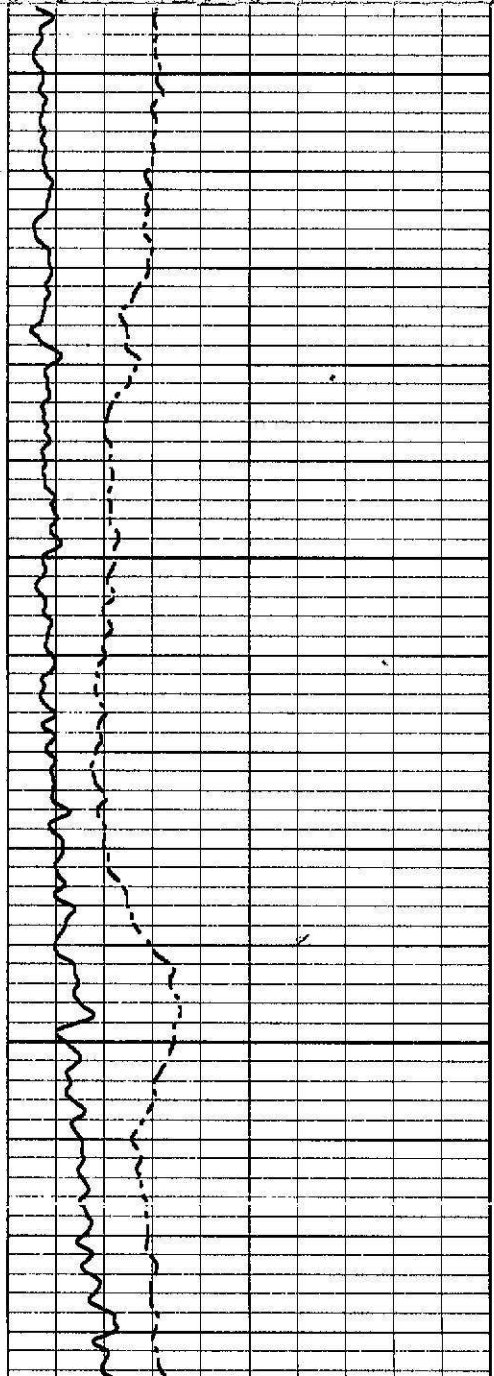


2700

2750

2800

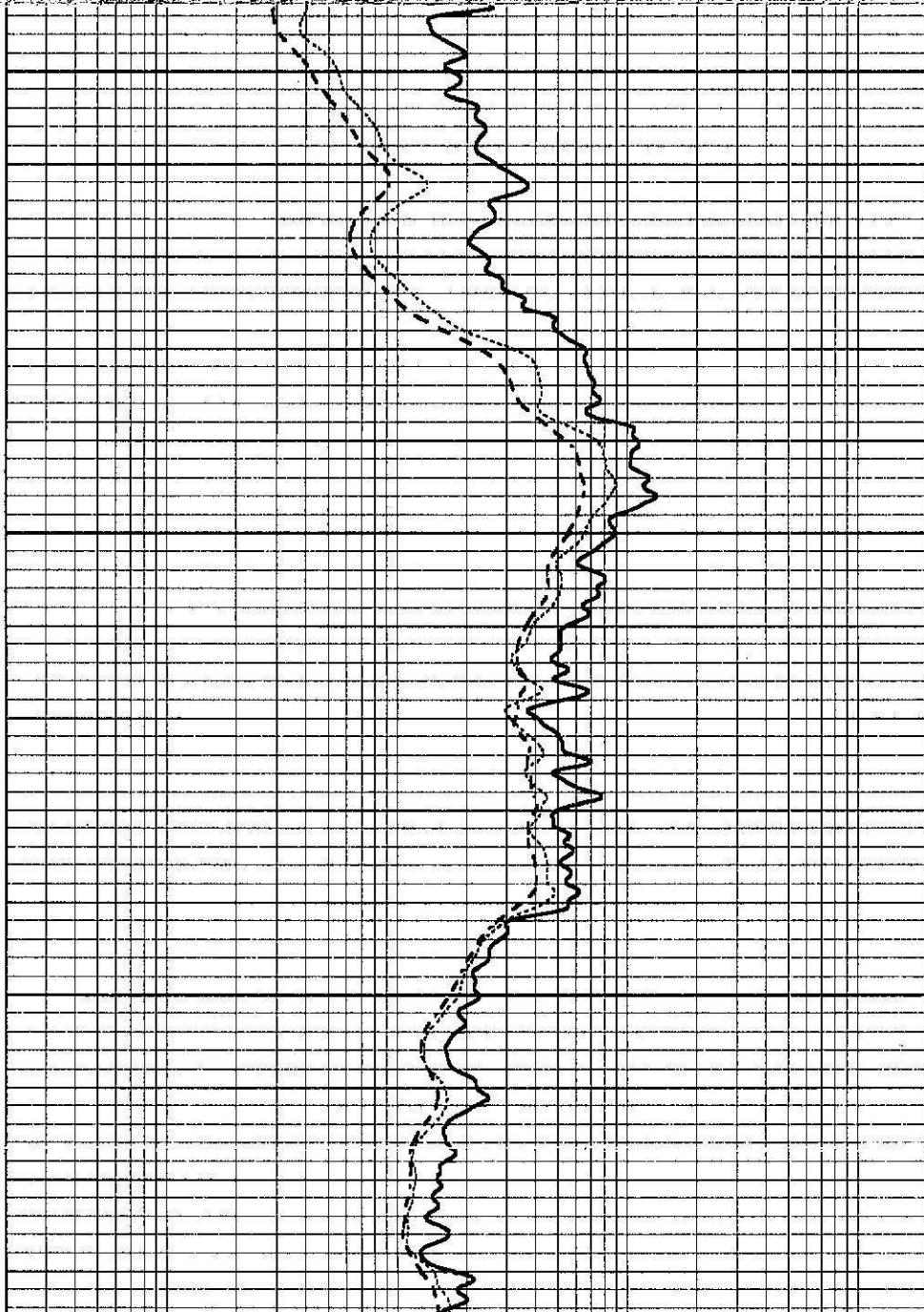


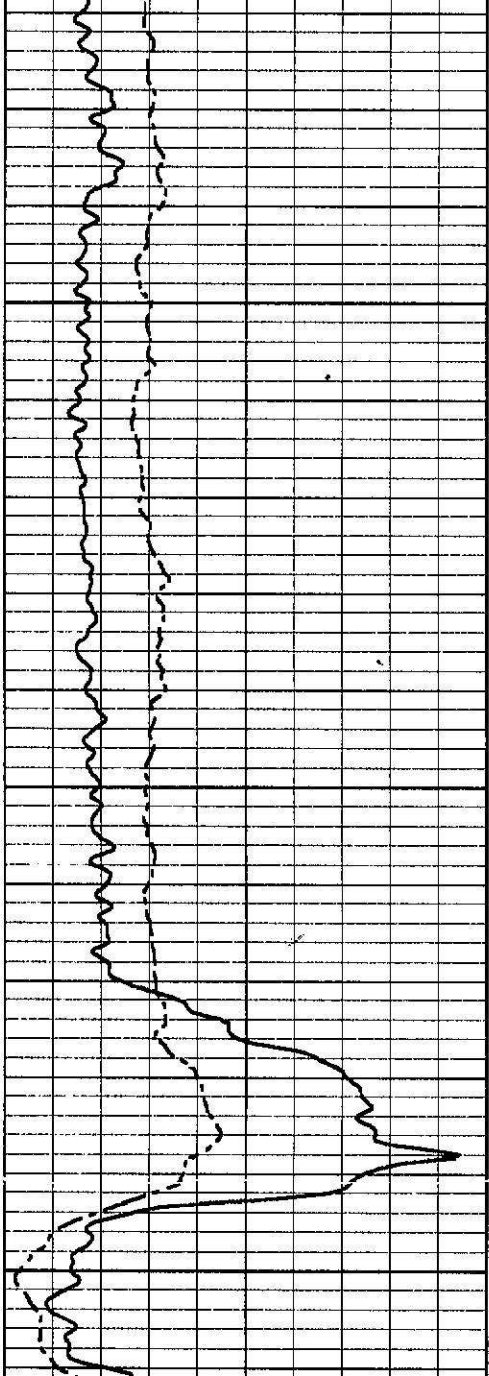


2800

2850

2900

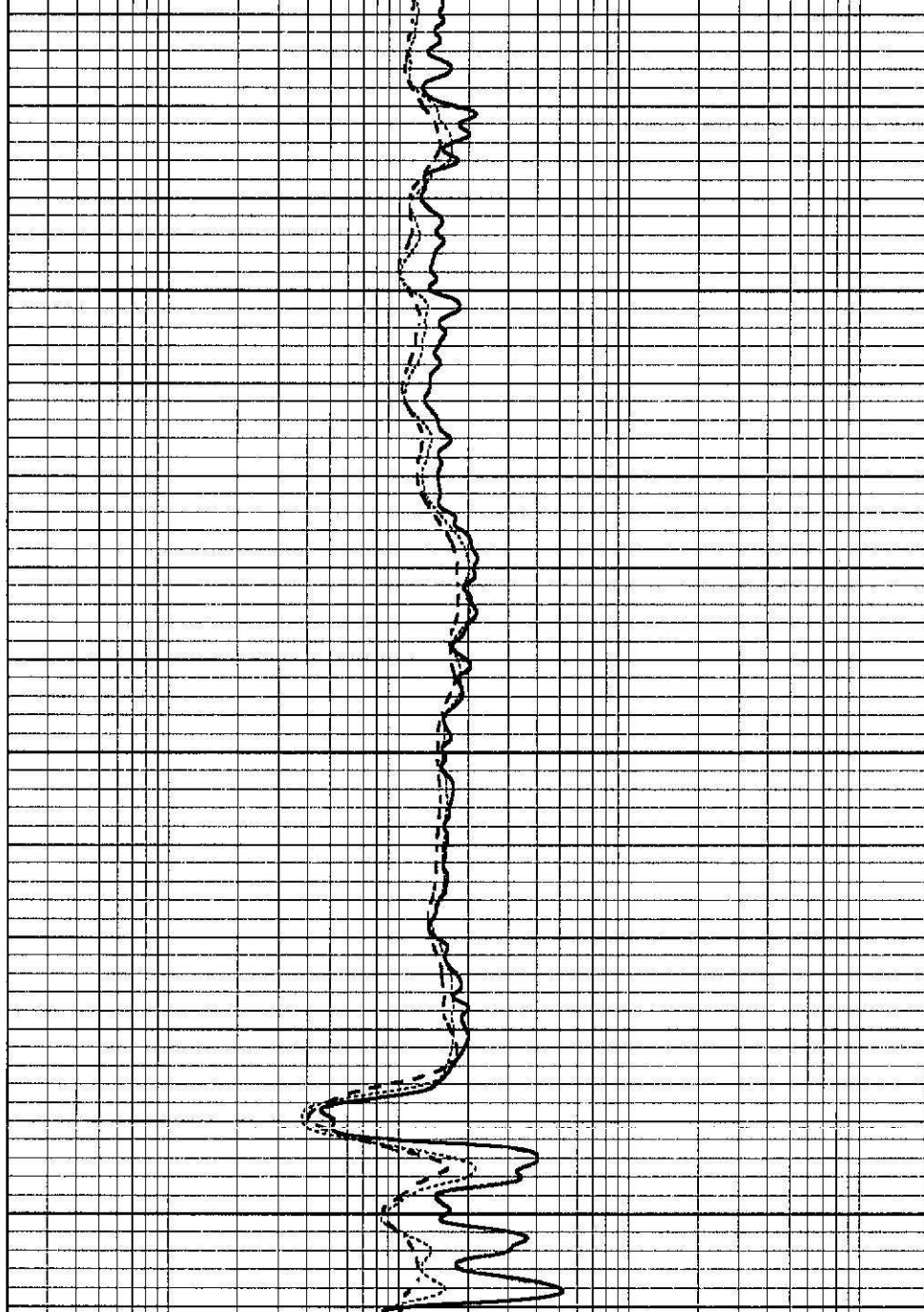


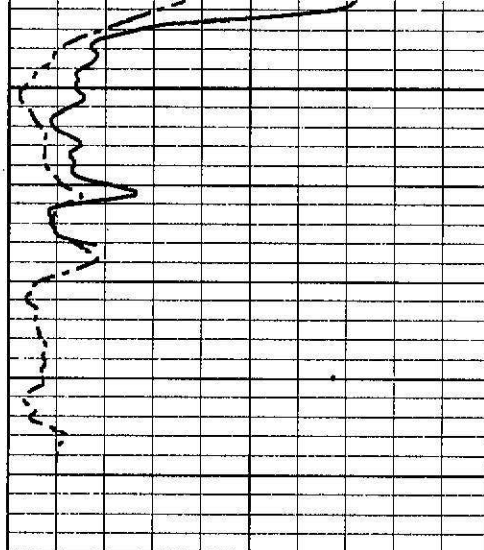


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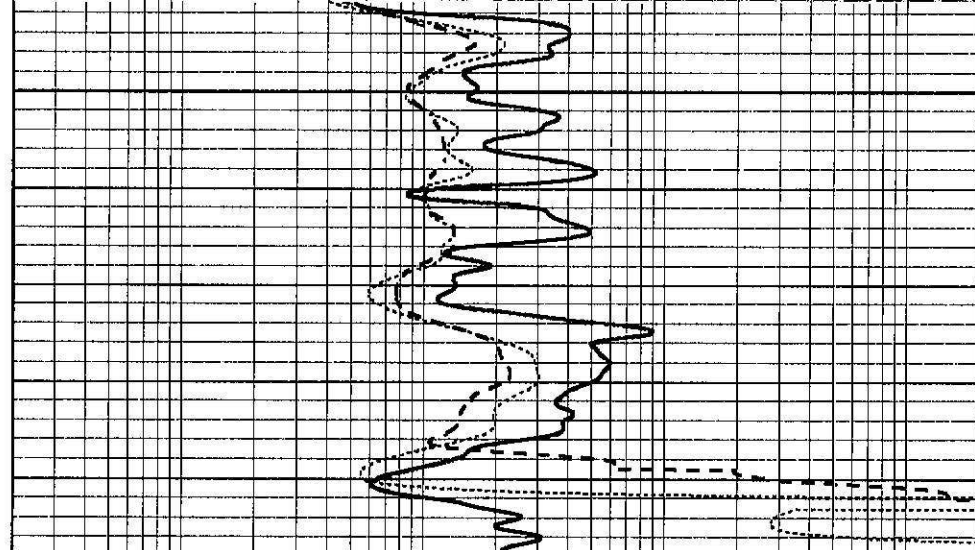
3000

3050





3050



0	Gamma Ray (GAPI)	150
0	SP (mV)	200

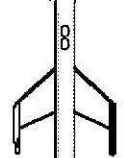
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GRTemp	29.86		GR-PTS_OH (FW1306-49)	3.50	0.00	
GR	29.45		MEL-GOI (TEL)	6.25	3.50	



MCAL  
MI  
MN

22.86  
22.86  
22.70



8

MEL-GOI (TEL)

6.25

3.50

CILD  
SP

10.92  
10.42



DIL-GEAR (159)  
Dual Induction Electrical Log

21.36

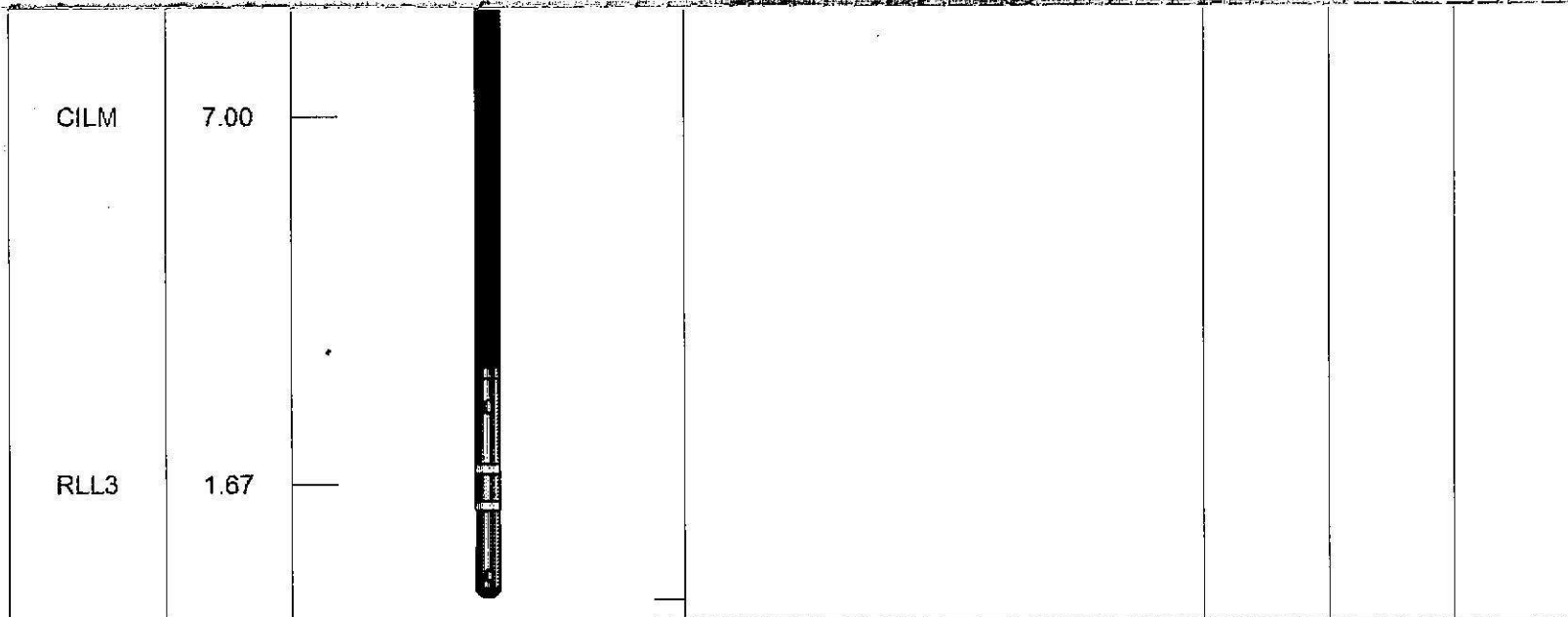
4.00

345.00

CILM

7.00





Dataset: ow2-8737 moline.db: field/well/DILM/pass1  
 Total length: 31.11 ft  
 Total weight: 345.00 lb  
 O.D.: 4.00 in



# 1" DIL SECTION

Database File ow2-8737 moline.db  
 Dataset Pathname DILM/pass1.2  
 Presentation Format dil1  
 Dataset Creation Sat Sep 27 11:41:36 2014  
 Charted by Depth in Feet scaled 1:1200

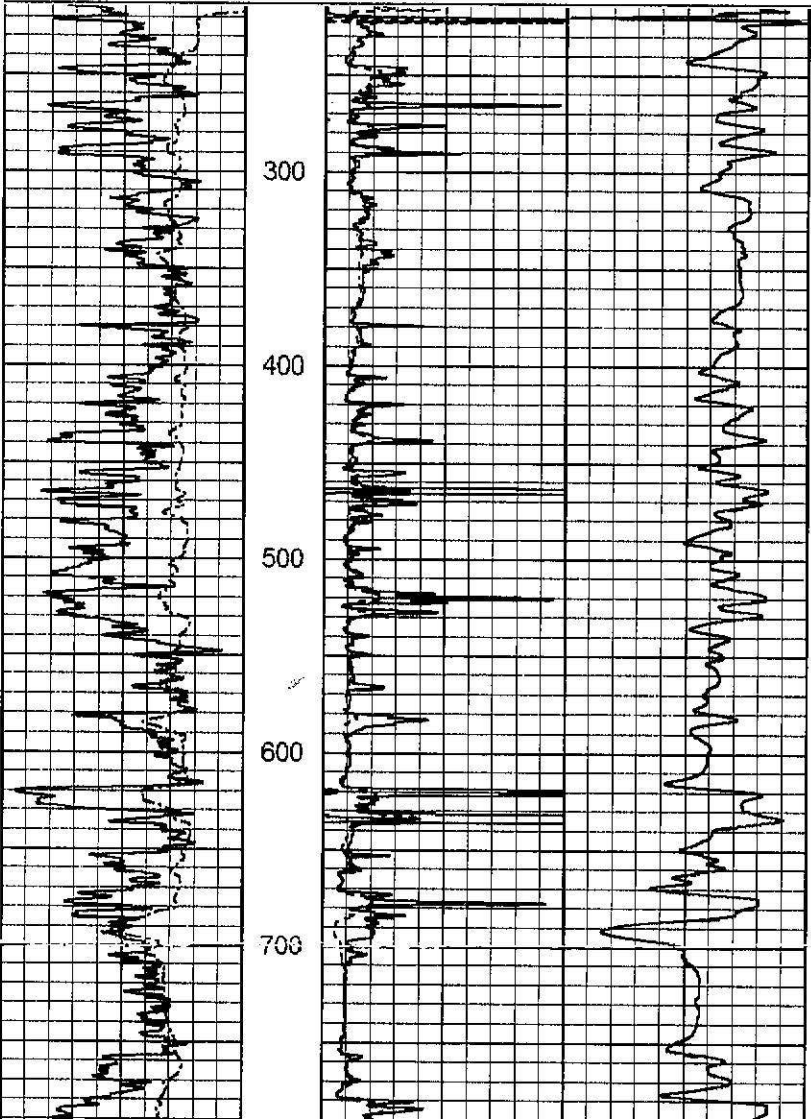
0	GR (GAPI) 150	1000	CILD (mmho/m)	0
0	SP (mV) 200		RILD	
		0	(Ohm-m) 50	

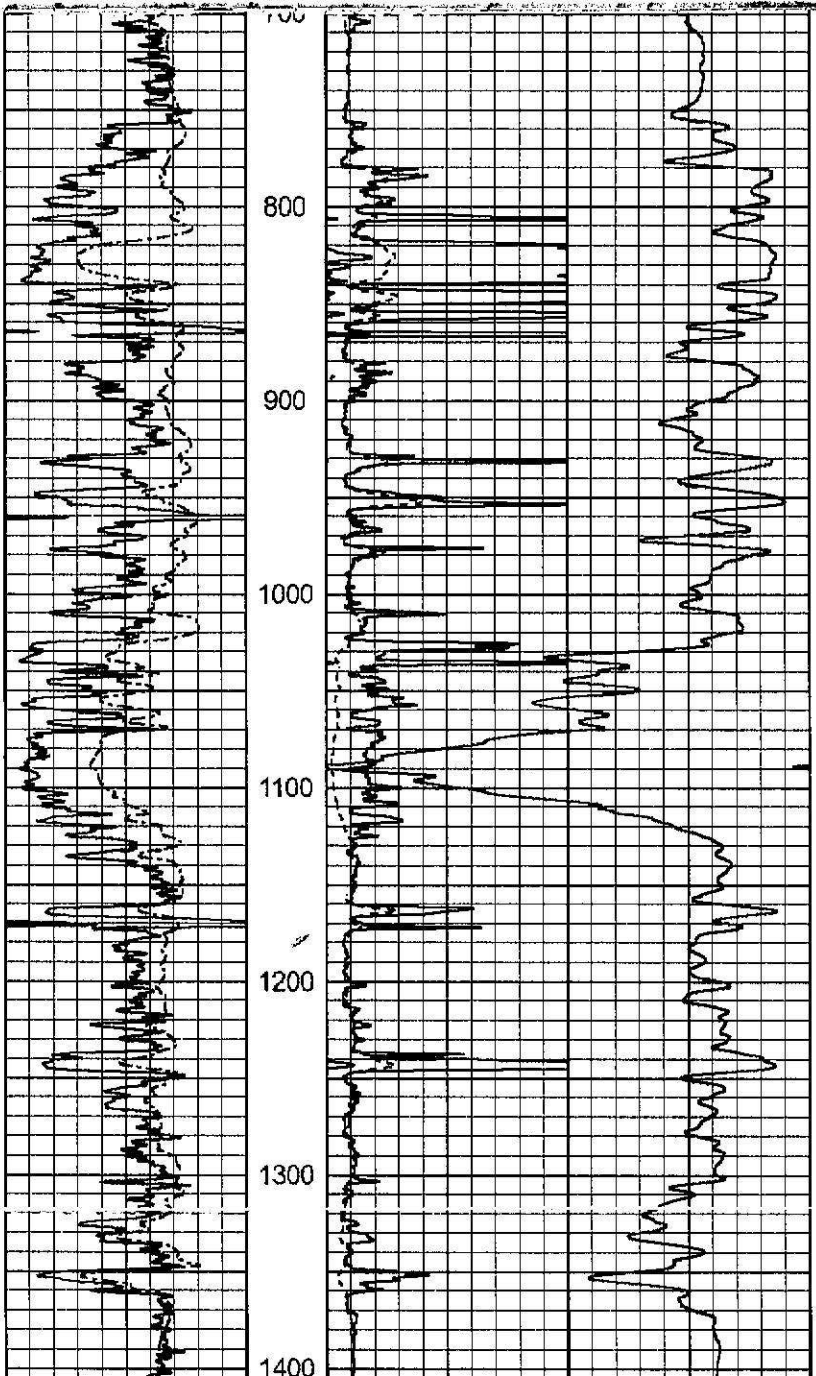
0 GR (GAPI) 150  
0 SP (mV) 200

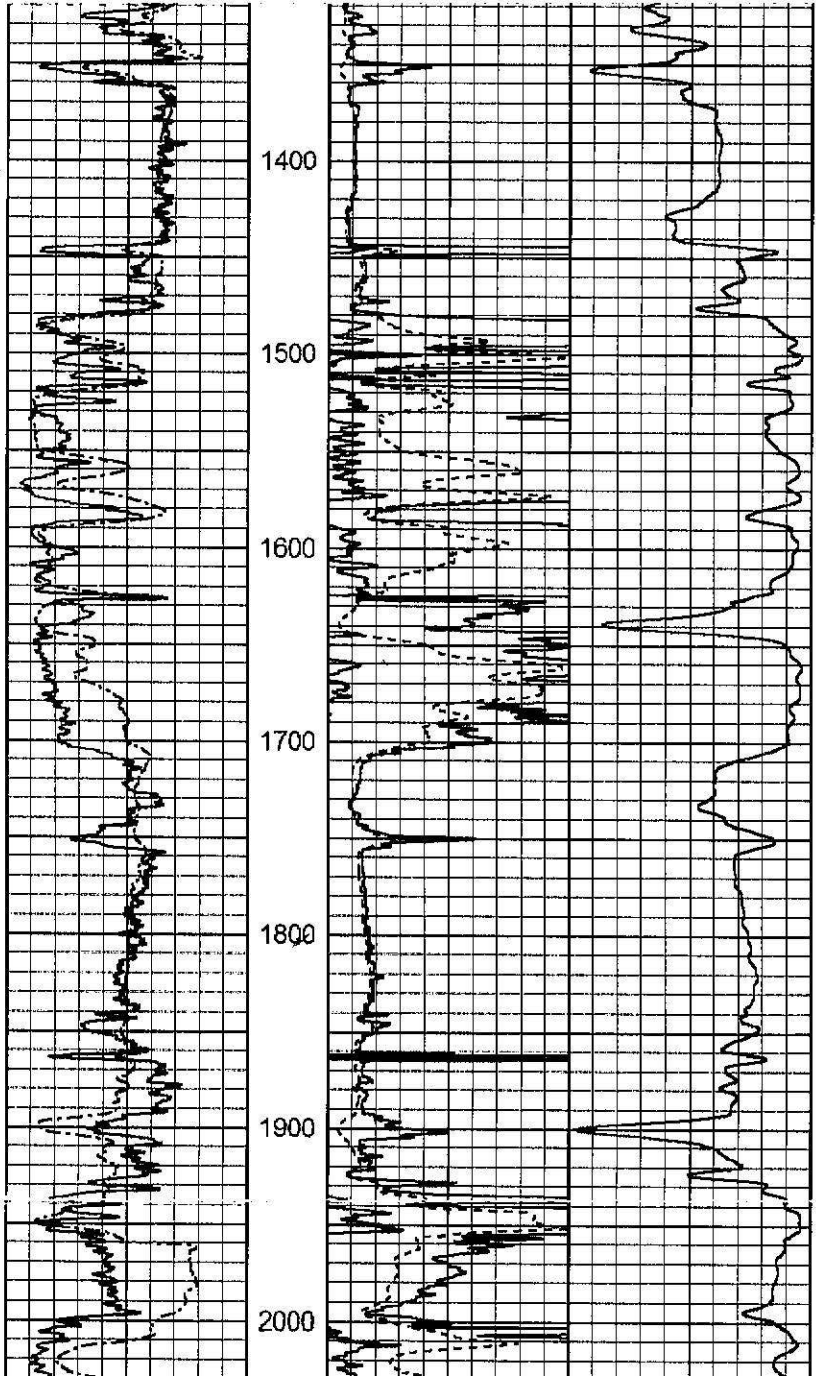
1000 CILD (mmho/m) 0

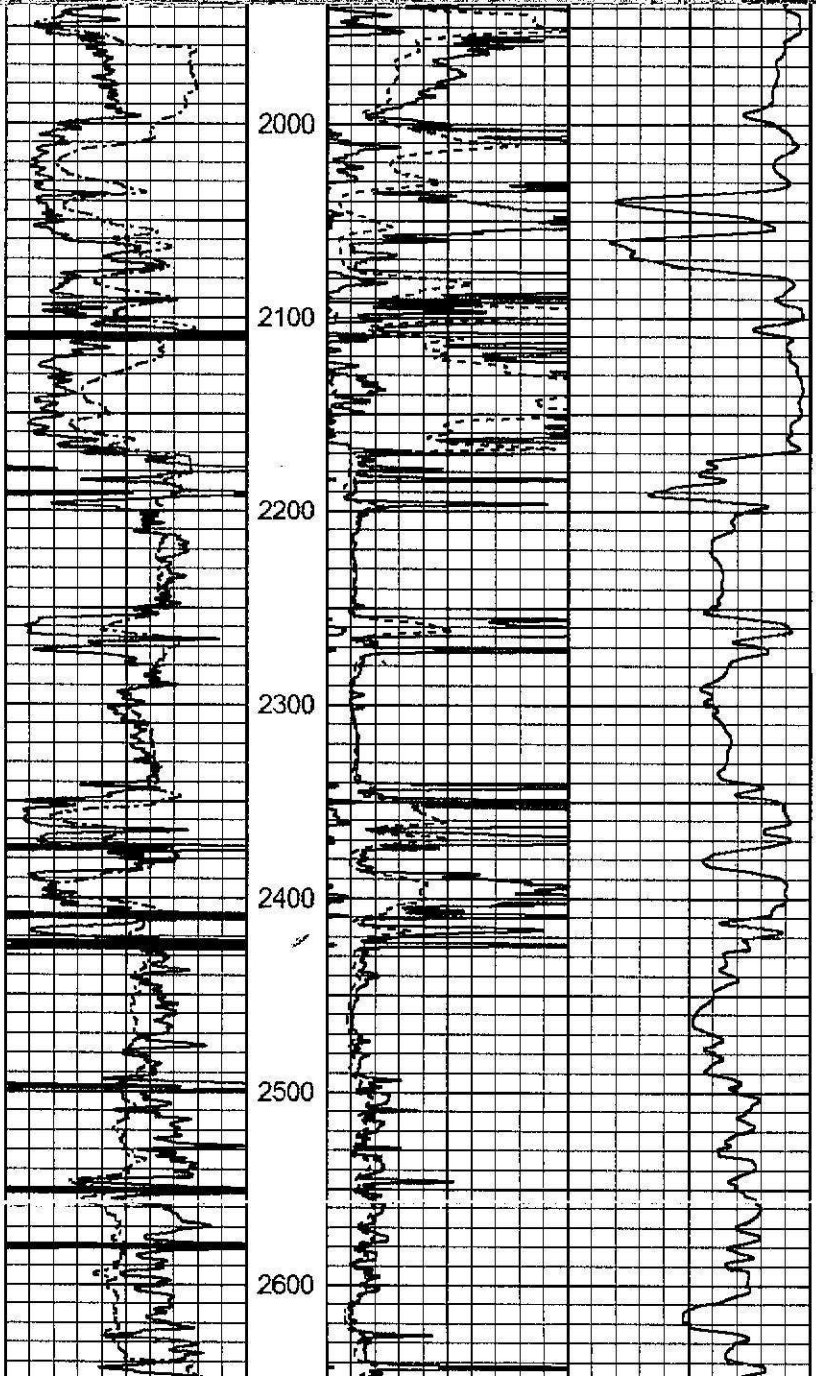
RILD  
0 (Ohm-m) 50

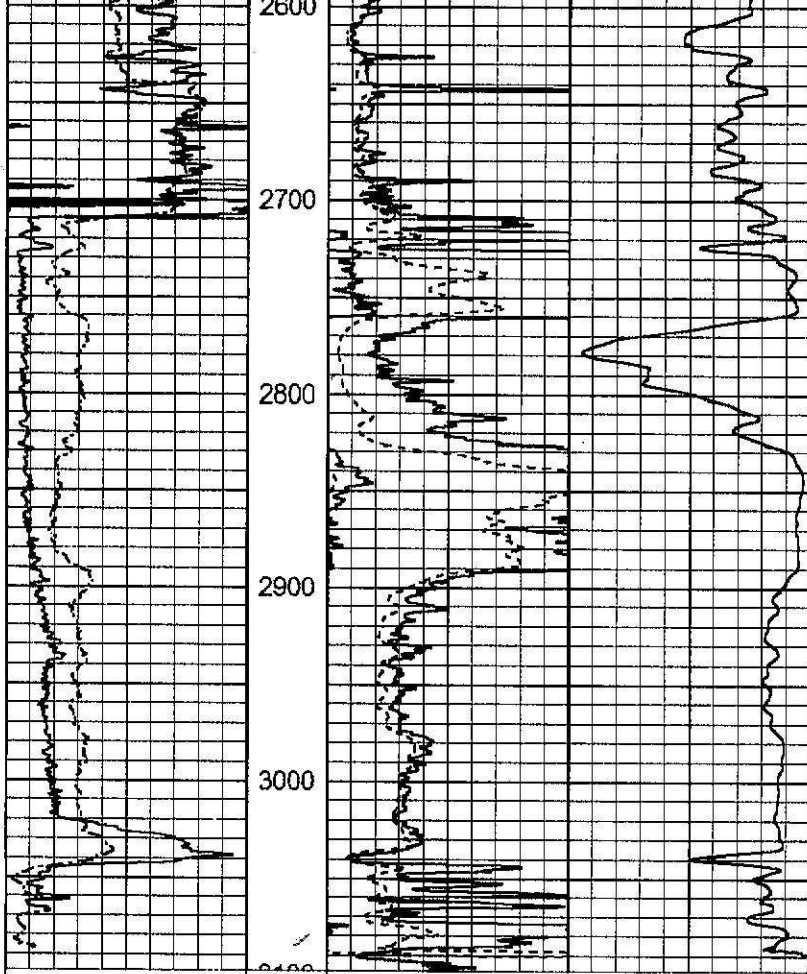
RLL3  
0 (Ohm-m) 50











0 GR (GAPI) 150  
 0 SP (mV) 200

1000 CILD (mmho/m) 0

RILD  
 0 (Ohm-m) 50  
 -----  
 RLL3  
 0 (Ohm-m) 50



# 1" DIL SECTION



# GAMMA RAY RADIAL BOND VARIABLE DENSITY CASING COLLAR LOG

Company T & R OIL COMPANY  
 Well DENTON # 15  
 Field GRAND SUMMIT  
 County COWLEY  
 State KANSAS

Company T & R OIL COMPANY  
 Well DENTON # 15  
 Field GRAND SUMMIT  
 County COWLEY State KANSAS

<b>Location:</b> E/2 SW SE SE 330' FSL & 690' FEL SEC 04 TWP 31S RGE 08E	<b>API #:</b> 15-035-24603-0000	<b>Other Services</b> <p style="text-align: center;"><b>PERF</b></p> <b>Elevation</b> K.B. 1432' D.F. 1431' G.L. 1428'
<b>Permanent Datum</b> GL <b>Elevation</b> 1428' <b>Log Measured From</b> KB <b>Drilling Measured From</b> KB		

Date	10-09-2014		
Run Number	ONE		
Depth Driller	3100'		
Depth Logger	3047'		
Bottom Logged Interval	3045'		
Top Log Interval	SURFACE		
Open Hole Size	7 7/8"		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	N/A		
Estimated Cement Top	SURFACE		
Time Well Ready	ON ARRIVAL		
Time Logger on Bottom	9:35 AM		
Equipment Number	OW6		
Location	HOMINY, OK		
Recorded By	BRYON MARSHALL	KENT HENSLEY	
Witnessed By	MR. PATTERSON		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String	5.5"		SURFACE	TD
Production String				
Liner				

>>> Fold 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**

FILE # OW6-3591  
 THANK YOU FOR USING OSAGE WIRELINE!



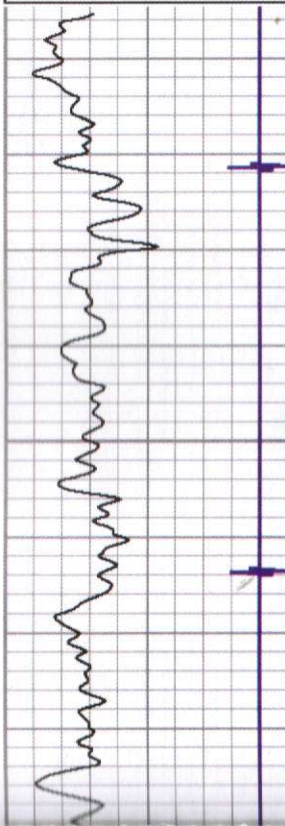
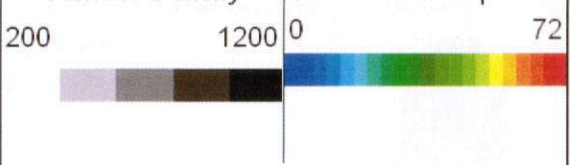
# GR/CCL/VDL

Database File: c:\warrior\data\ow6\ow6-3591 t and r oil denton 15.db  
 Dataset Pathname: pass1.1  
 Presentation Format: ow3-radi  
 Dataset Creation: Thu Oct 09 11:02:33 2014 by Calc 0  
 Charted by: Depth in Feet scaled 1:240

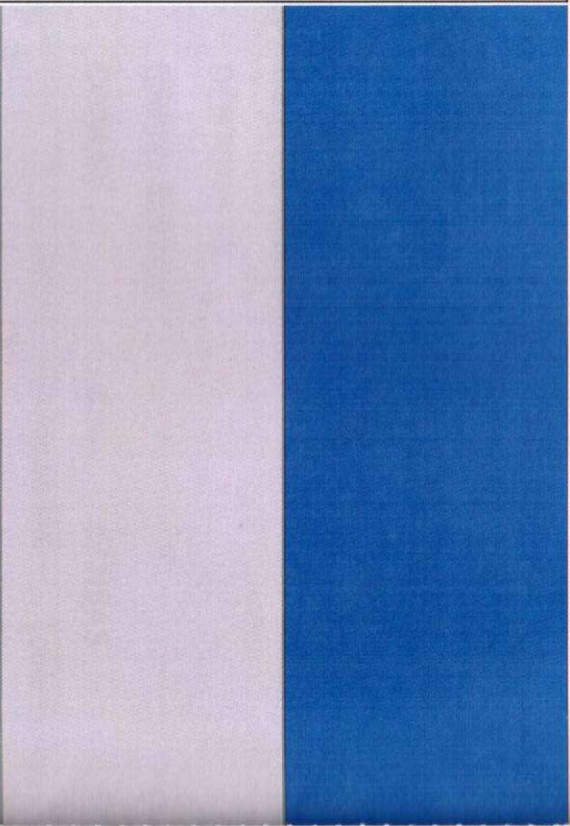
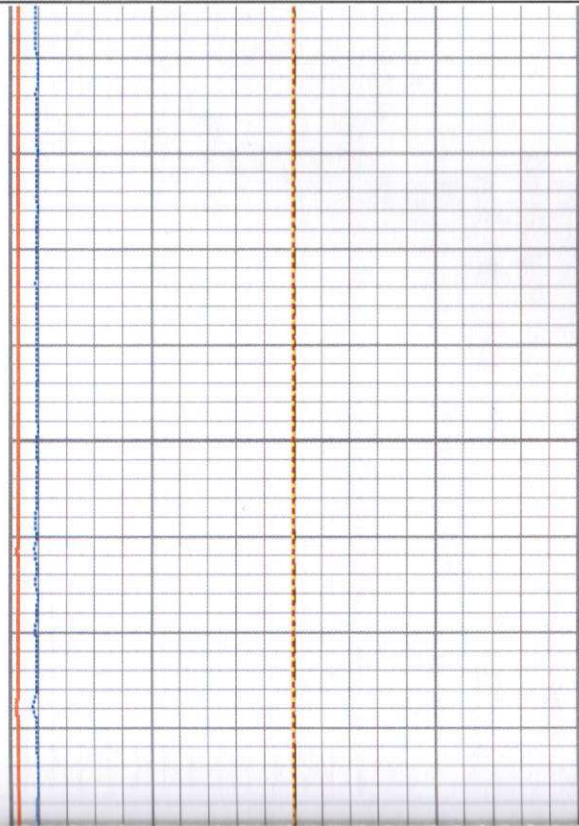
40	Casing Collar -4.5		Pipe Bond	0	Sector 1	100	Variable Density	1	Radial Map	8
	Gamma Ray	0	(mV) 100	0	Sector 2	100		200	1200	0
0	(GAPI) 150		Pipe Bond x5	0	Sector 3	100				
		0	(mV) 30	0	Sector 4	100				

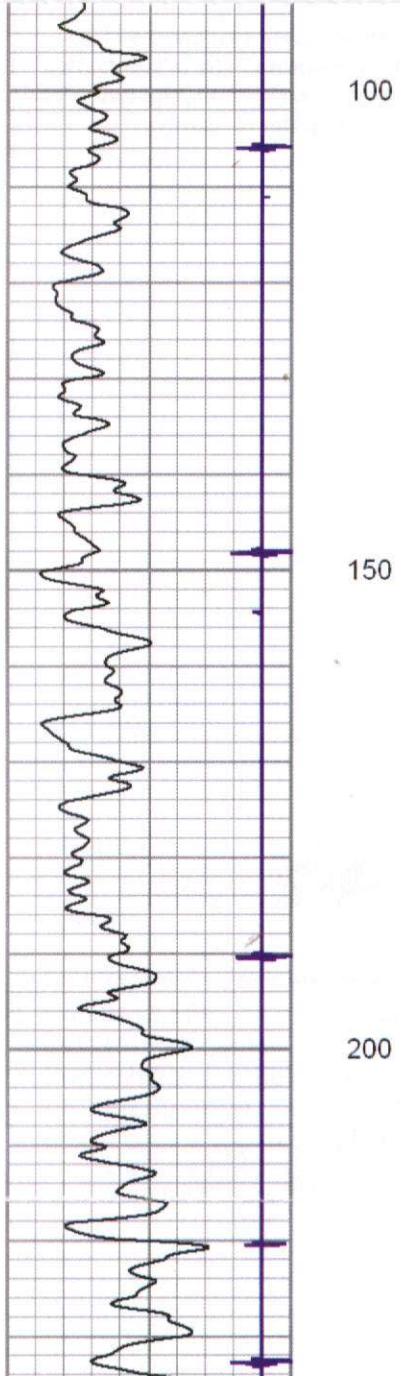
Gamma Ray		
0	(GAPI)	150

0	(mV)	100	0	Sector 2	100
Pipe Bond x5			0	Sector 3	100
0	(mV)	30	0	Sector 4	100
Travel Time			0	Sector 5	100
800	(usec)	200	0	Sector 6	100
			0	Sector 7	100
			0	Sector 8	100



50

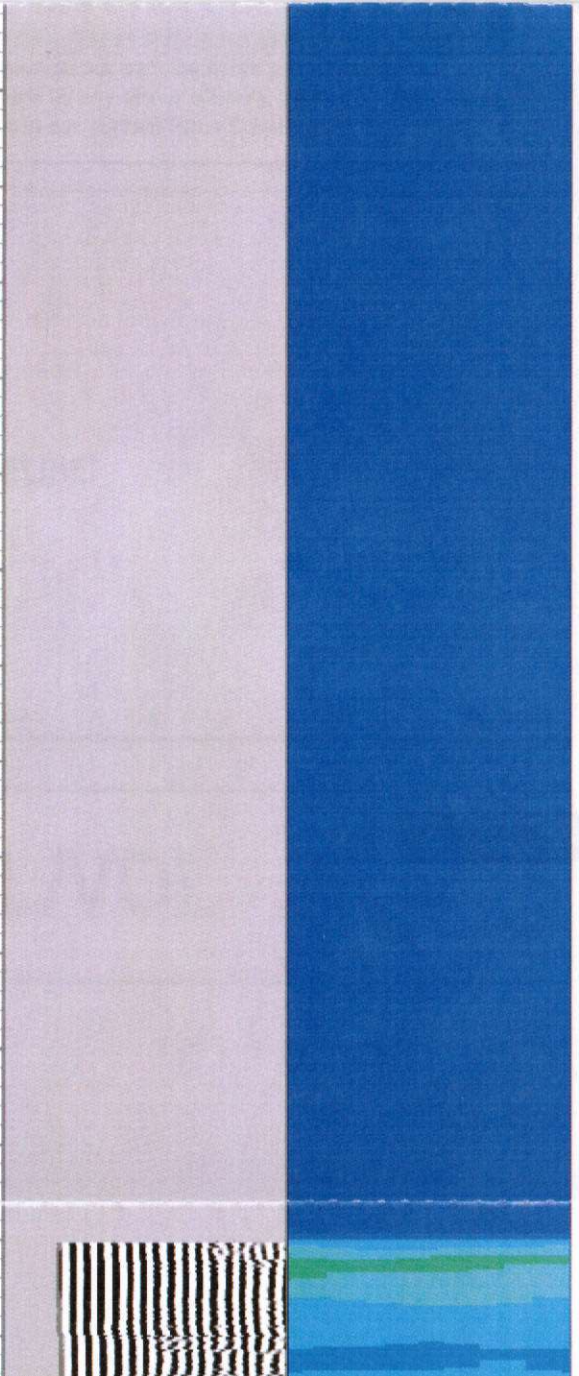
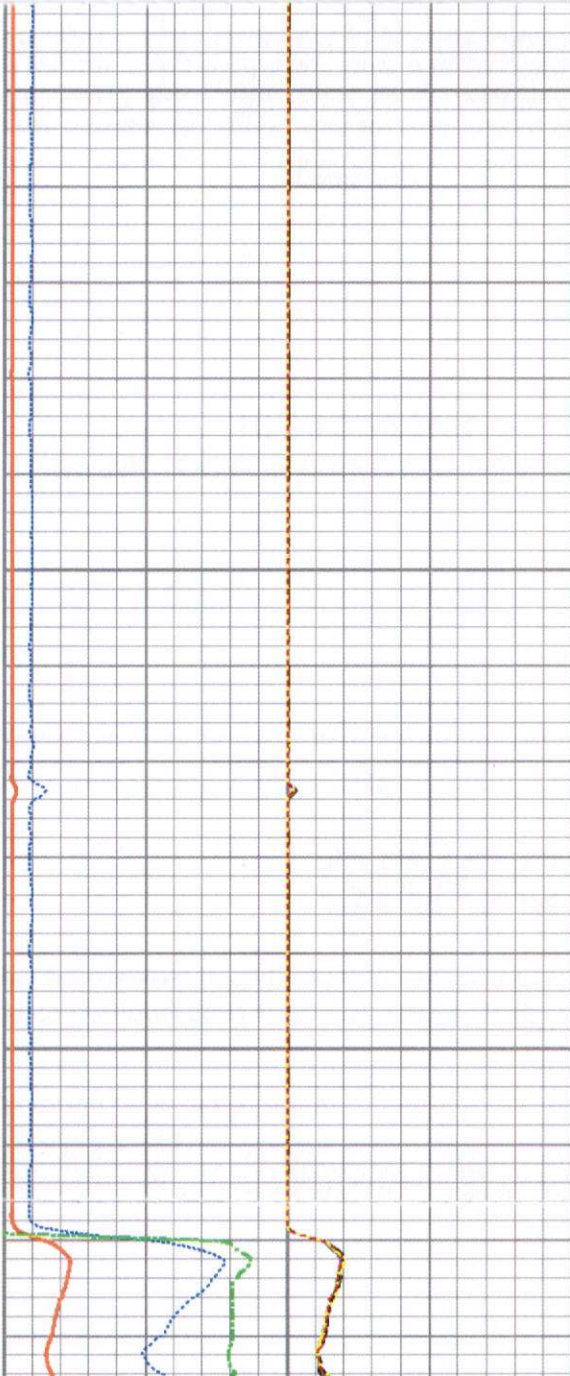


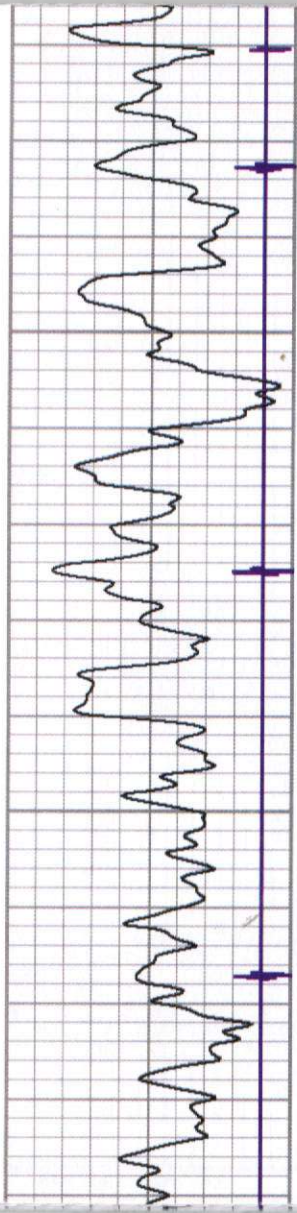


100

150

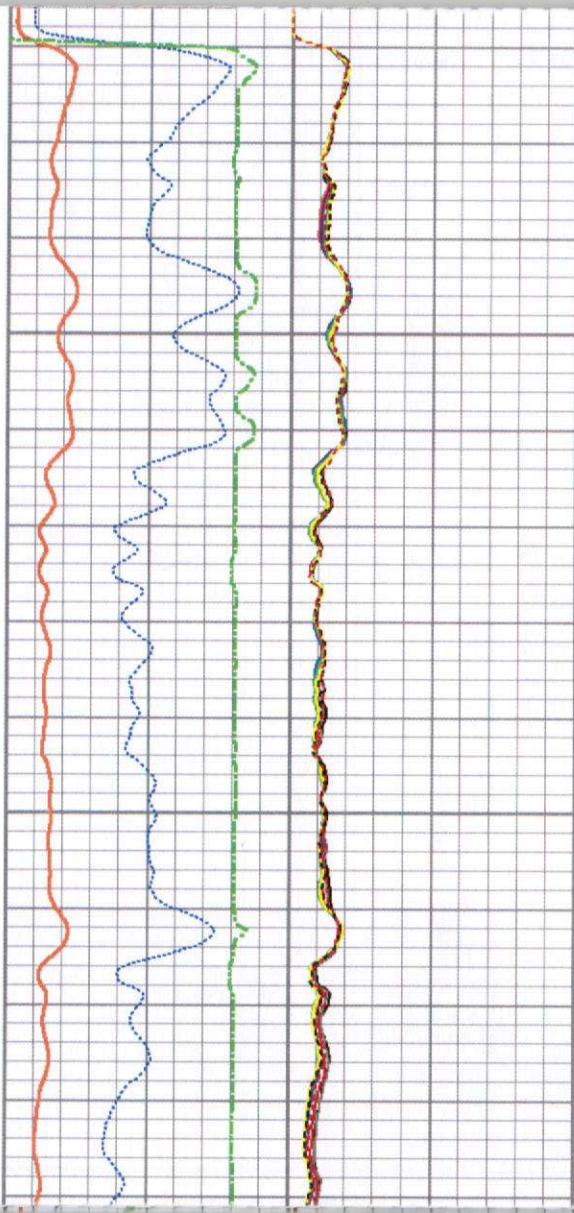
200

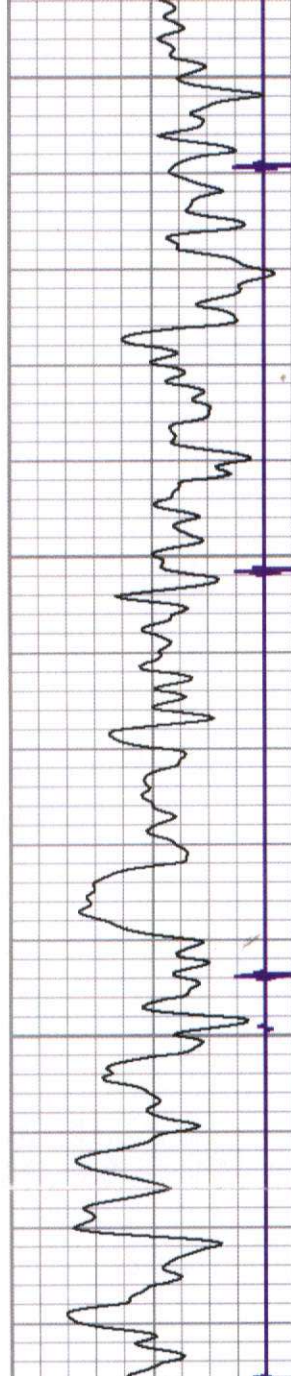




250

300

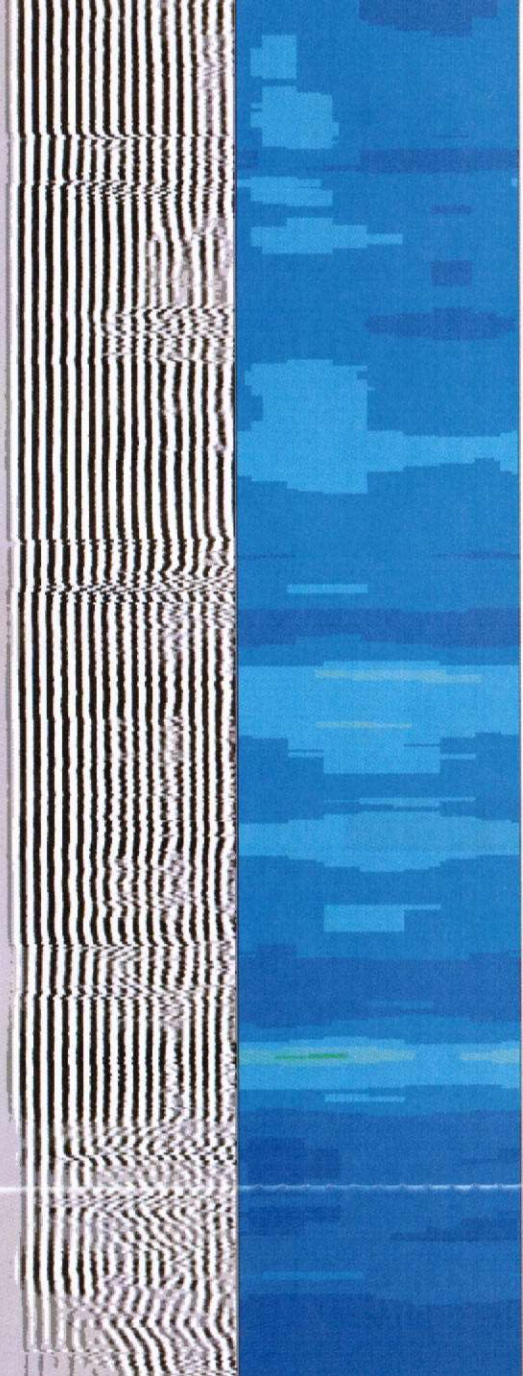
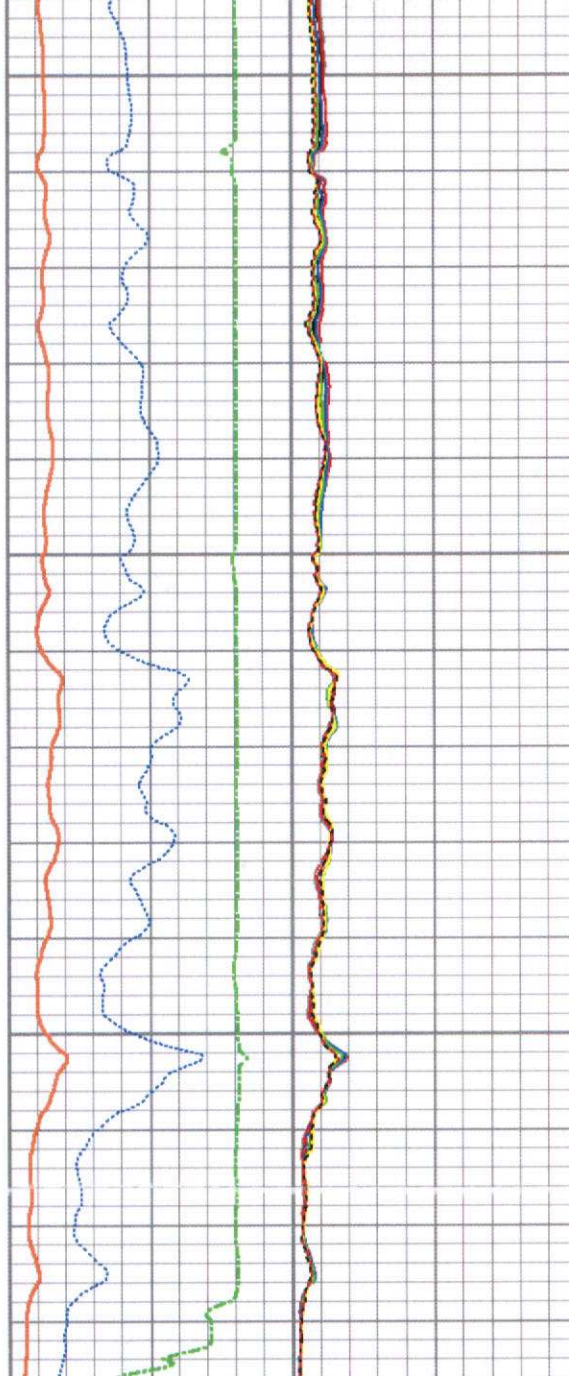




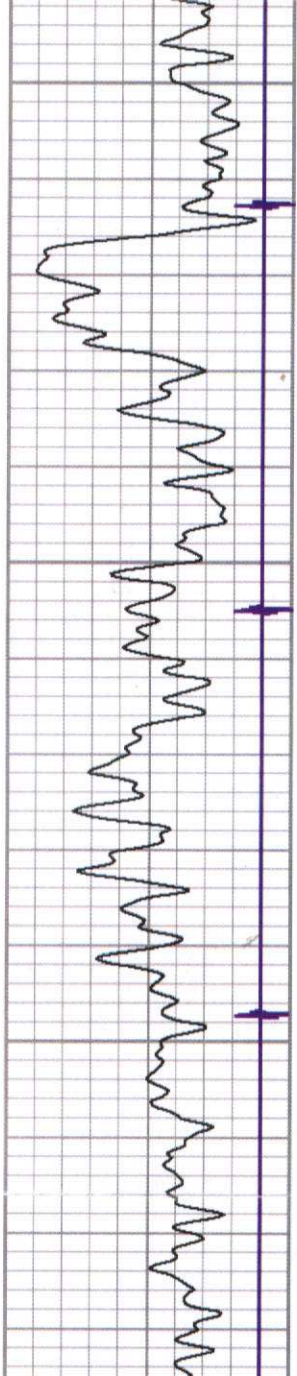
350

400

450



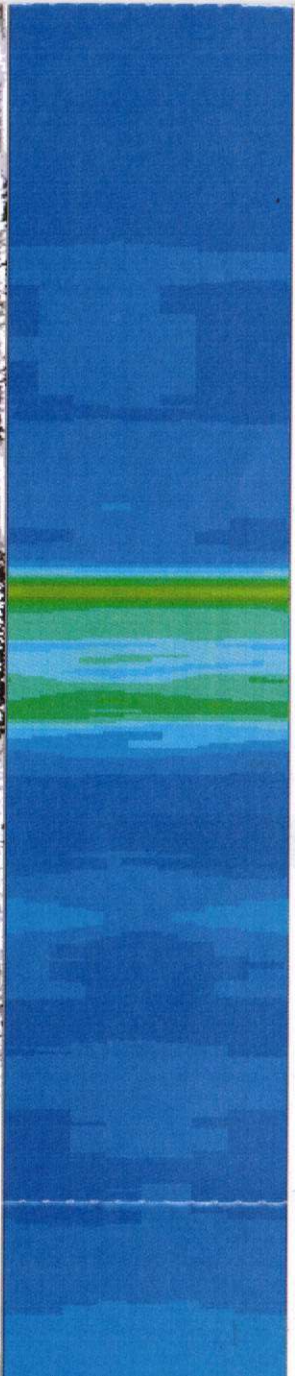
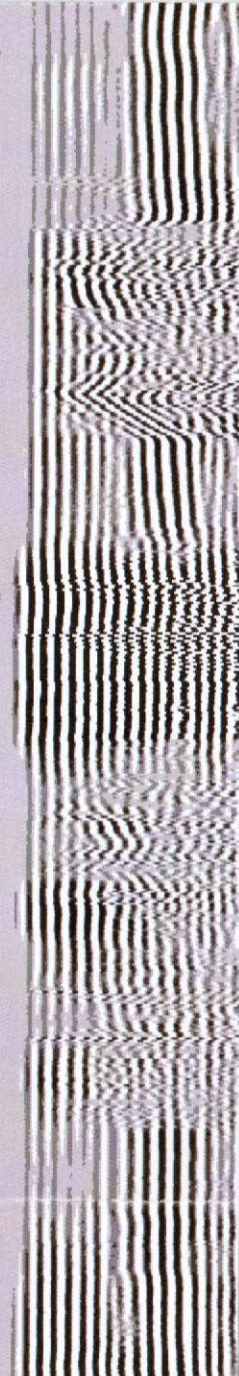
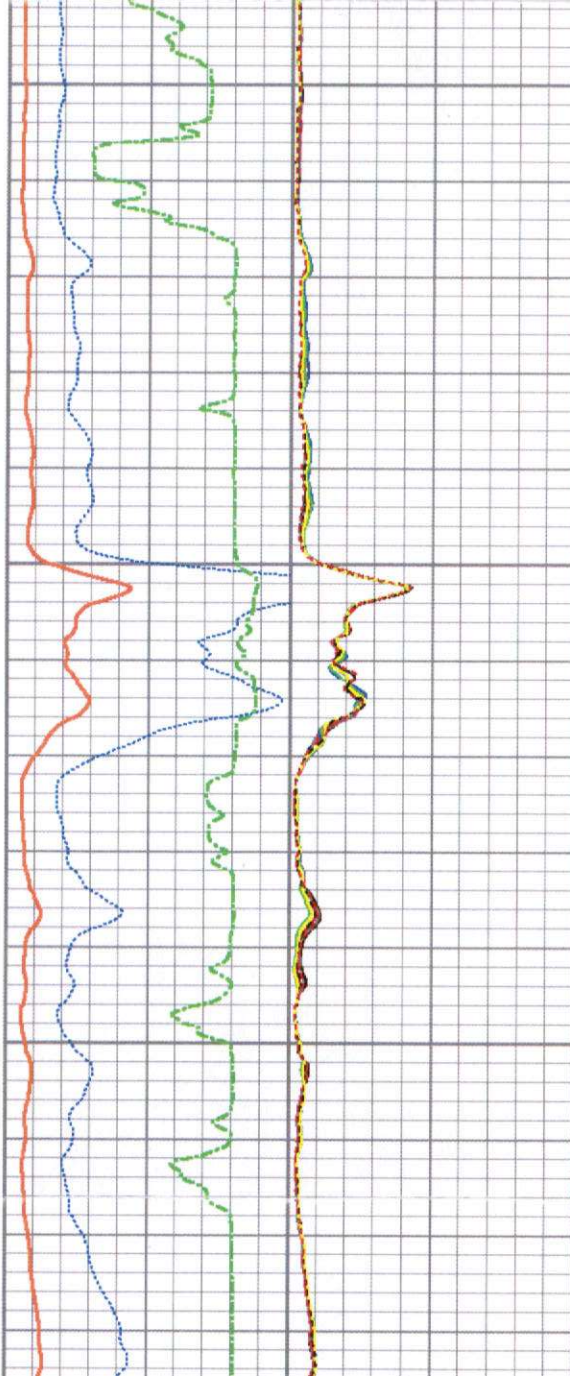


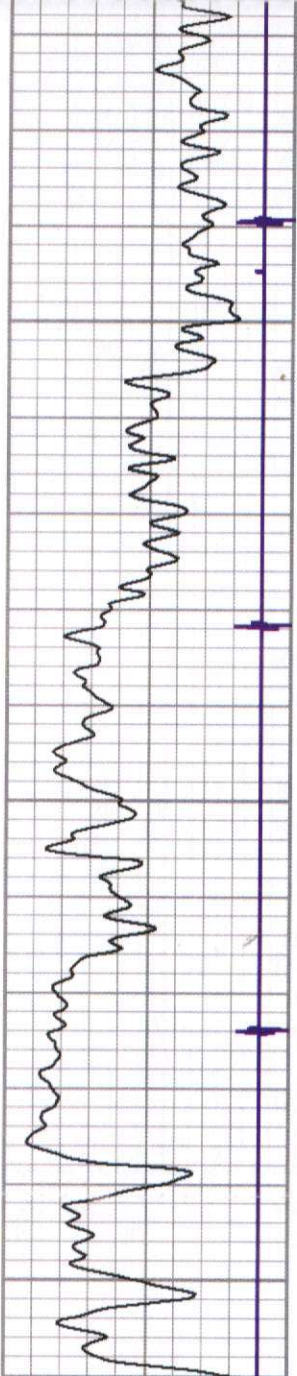


600

650

700

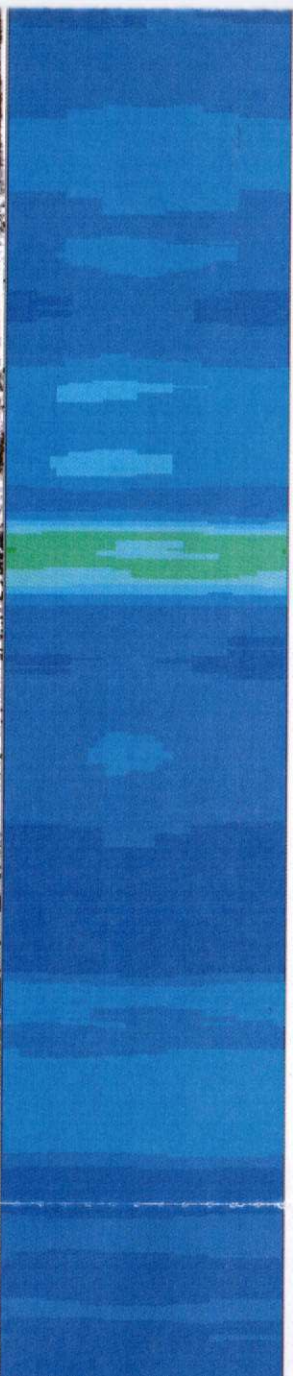
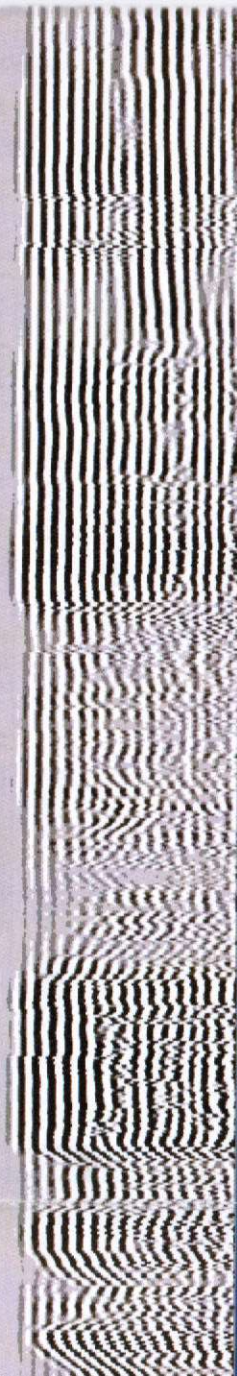
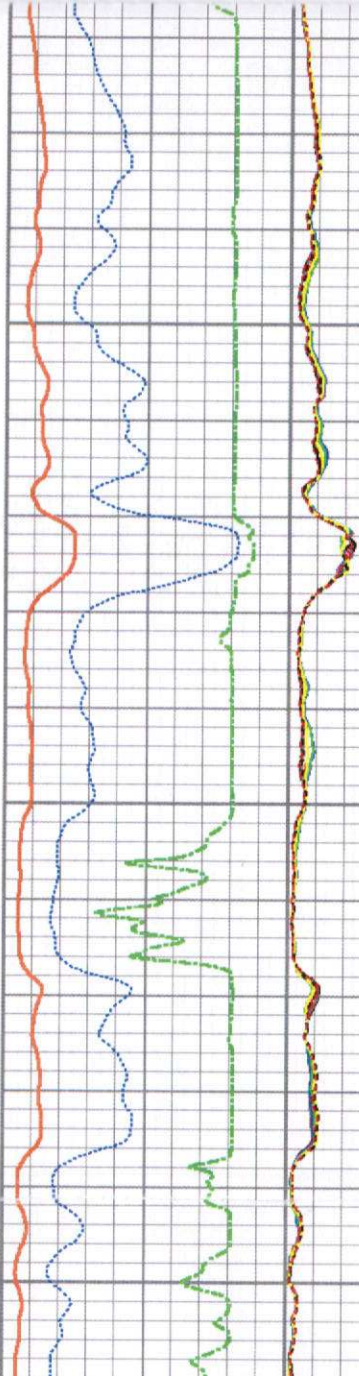




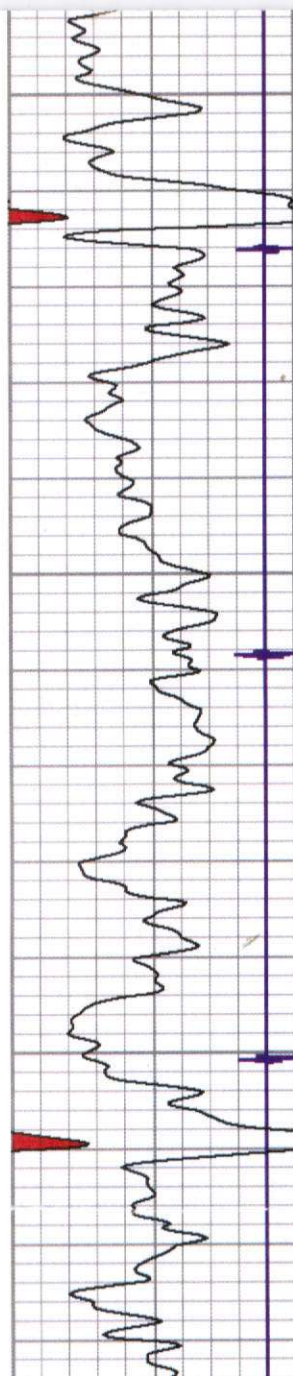
750

800

850



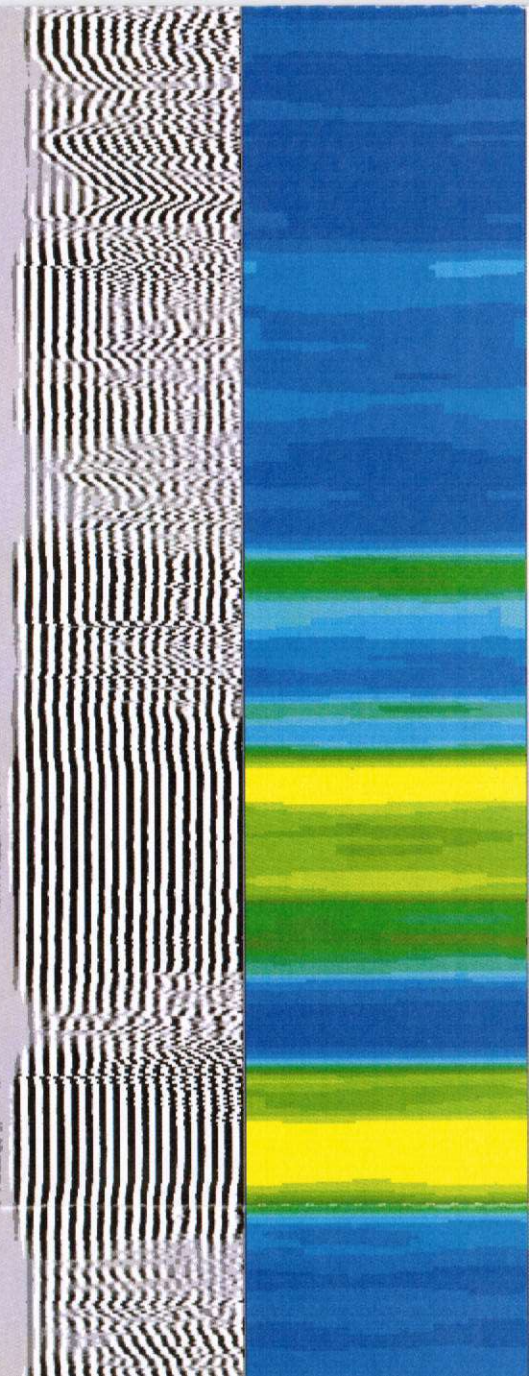
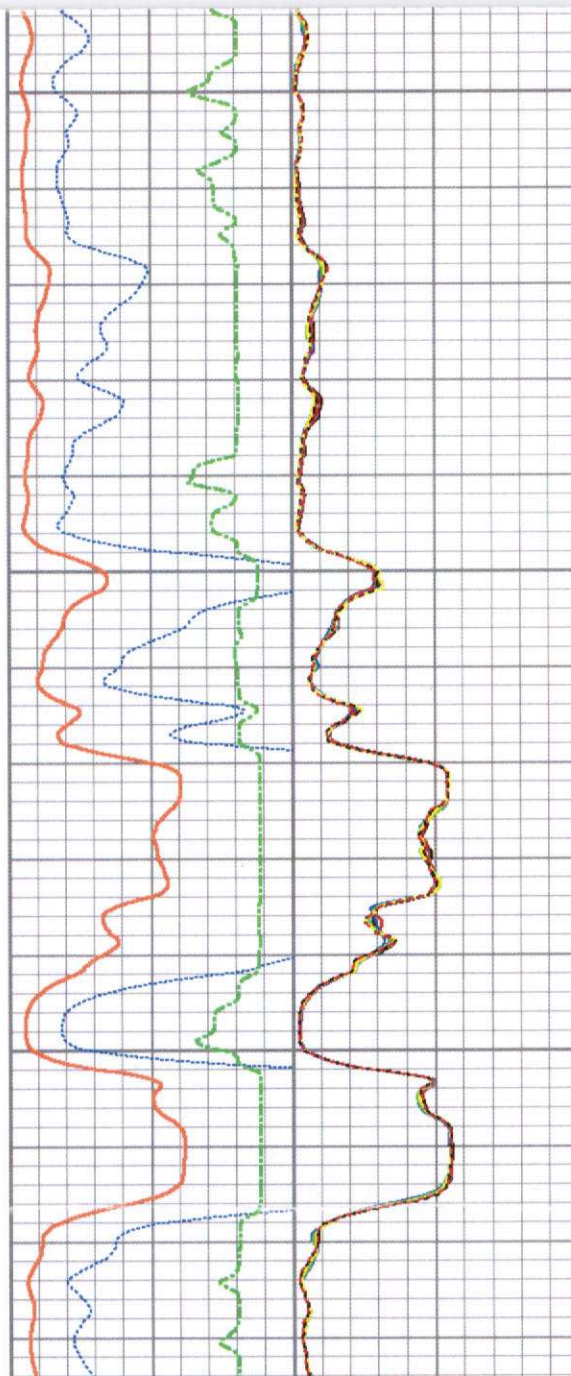


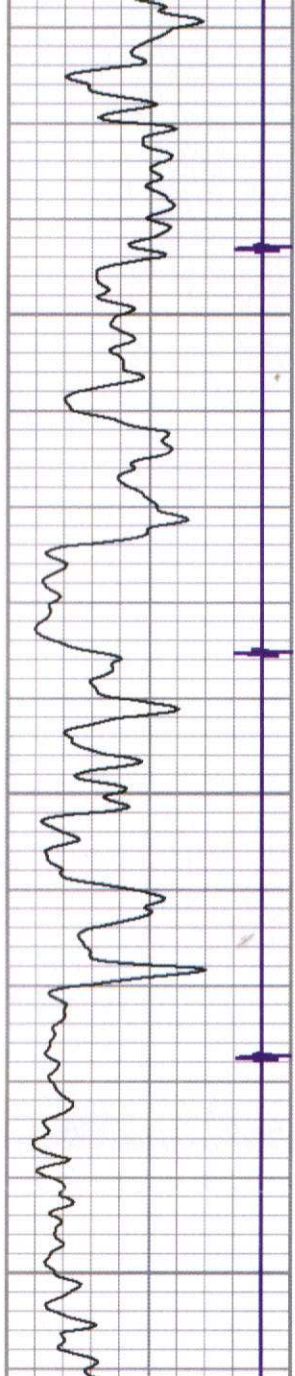


850

900

950

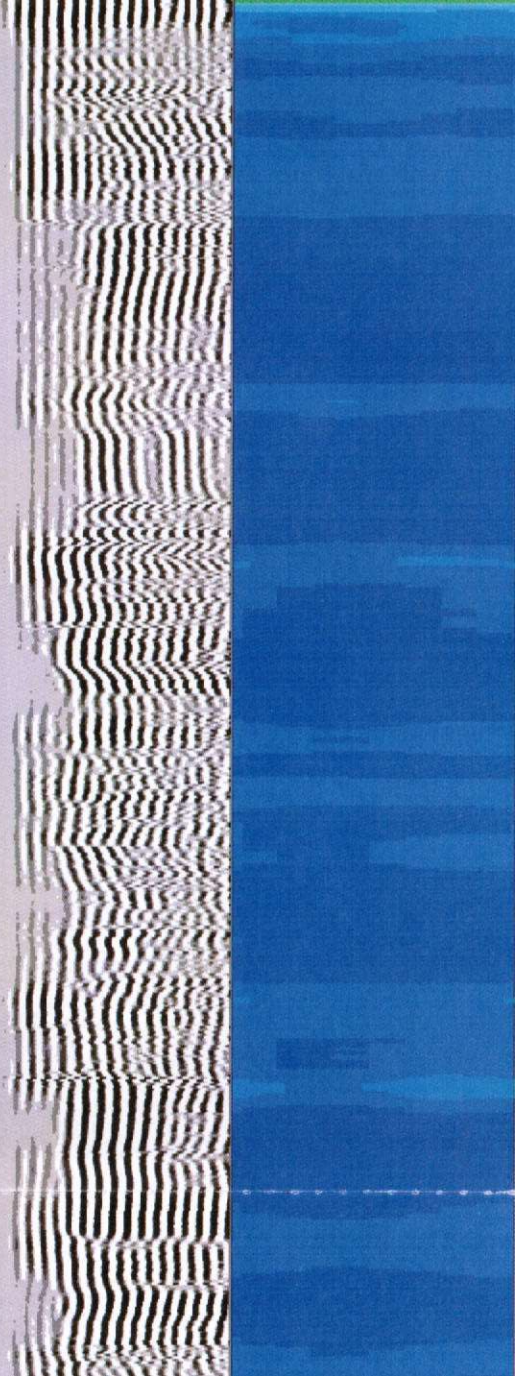
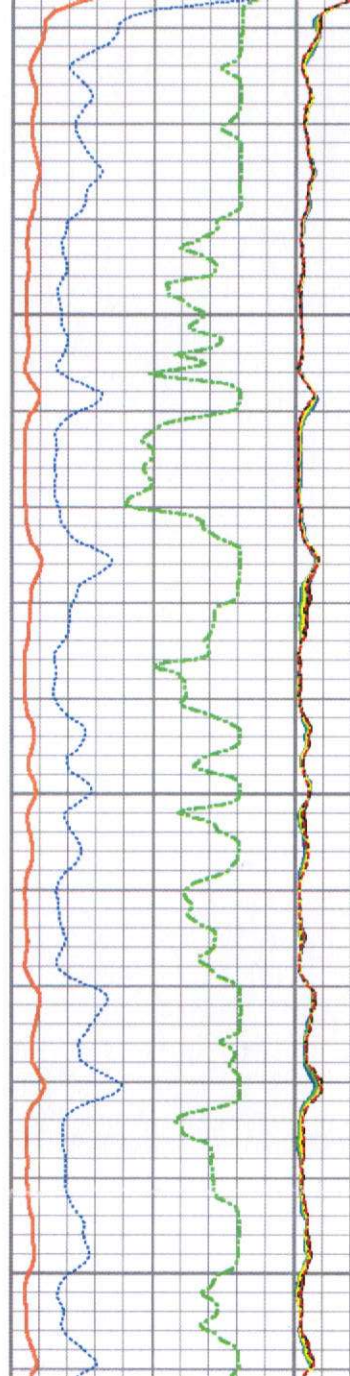


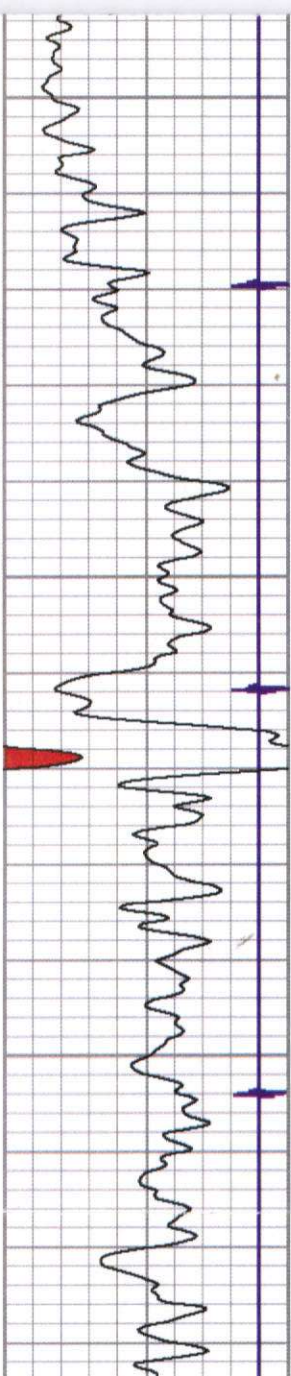


1000

1050

1100

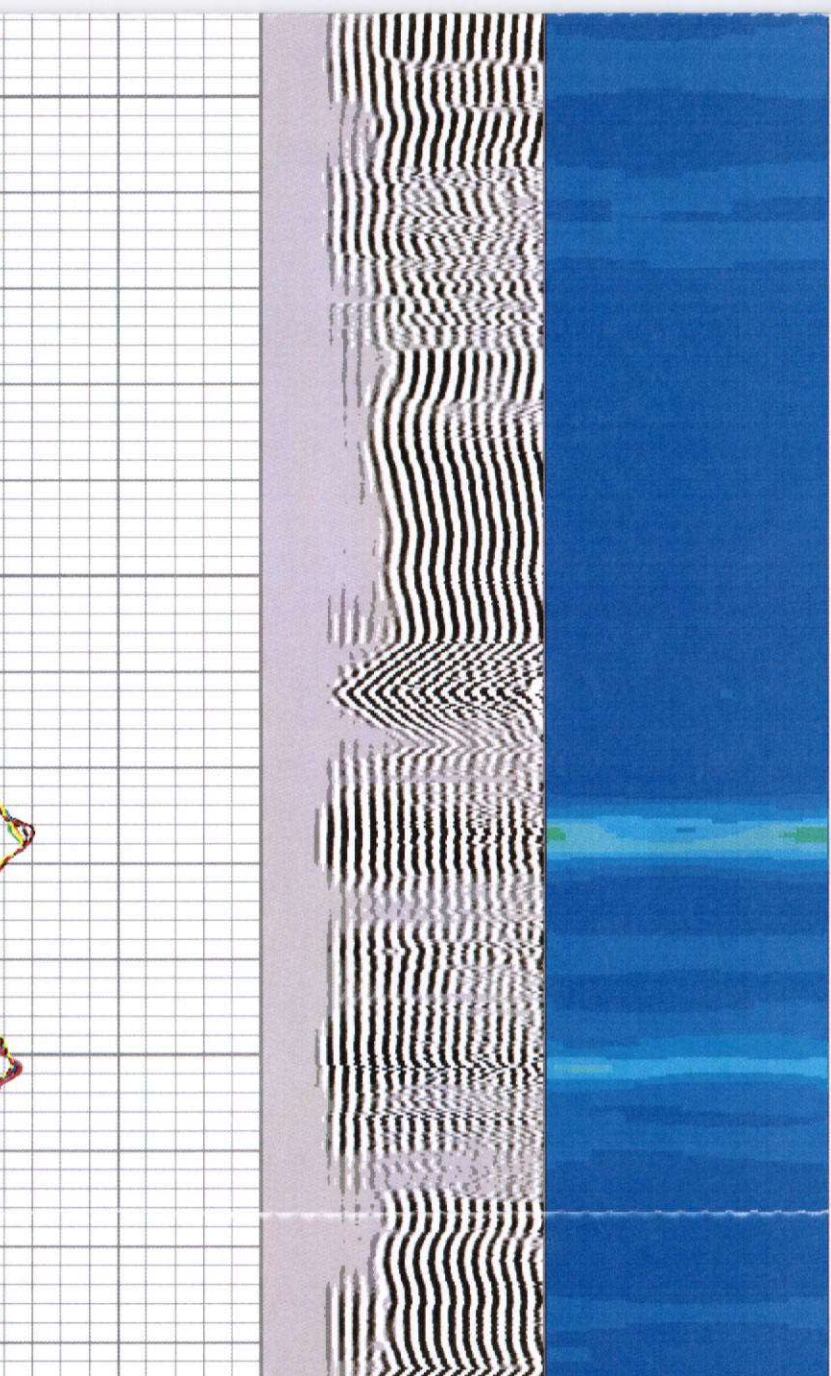
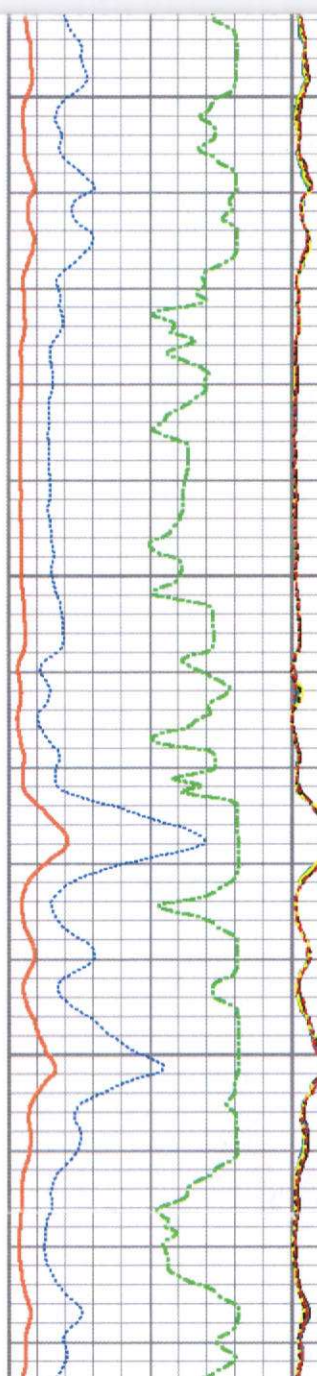


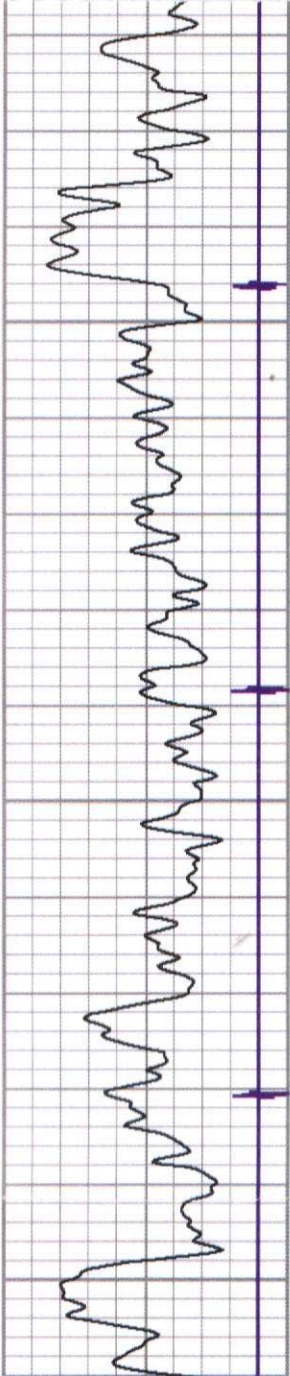


1100

1150

1200

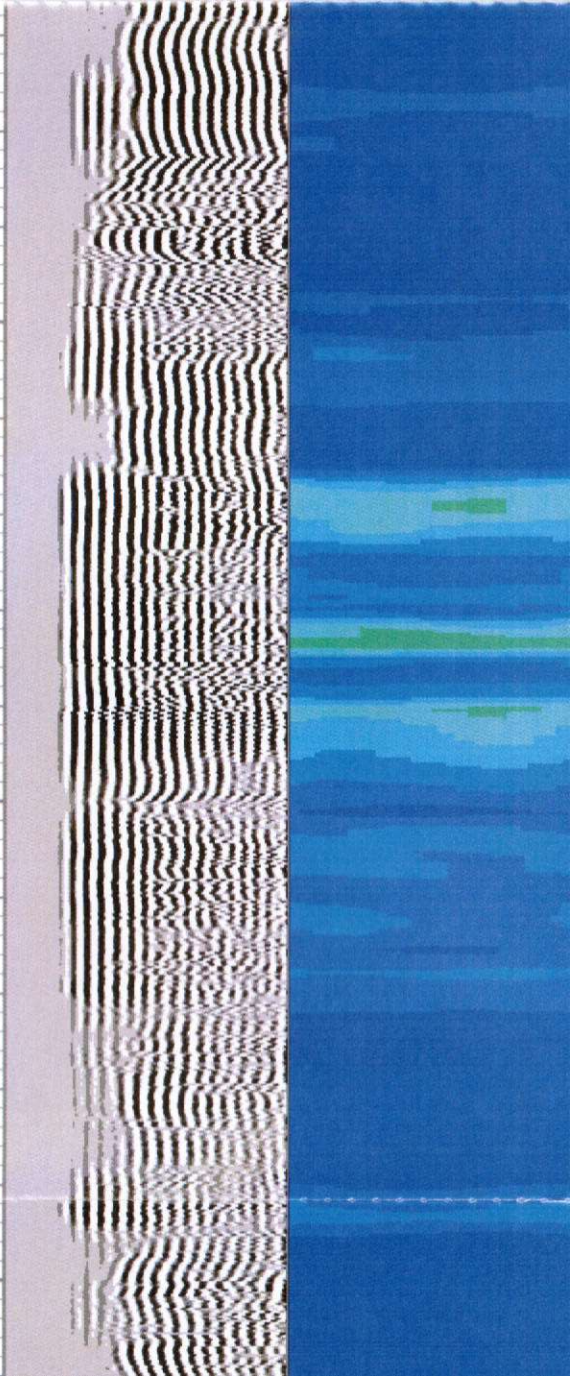
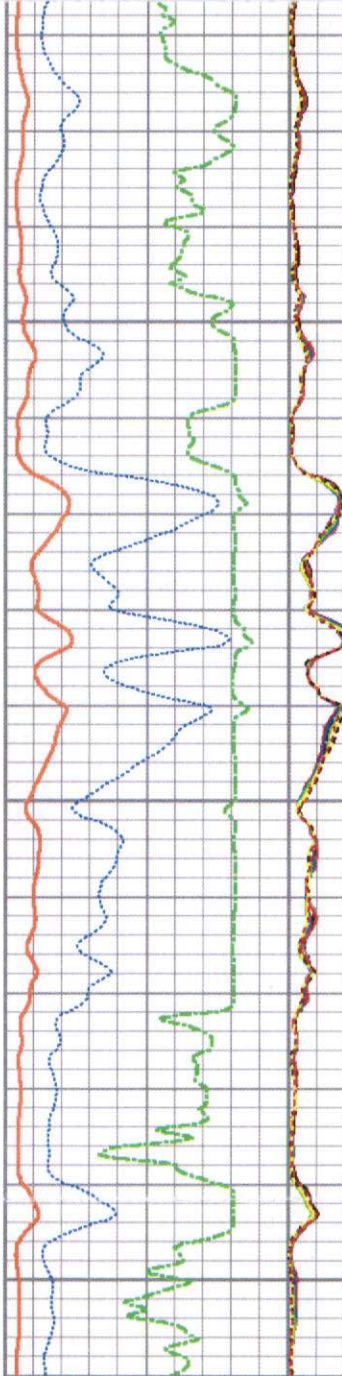


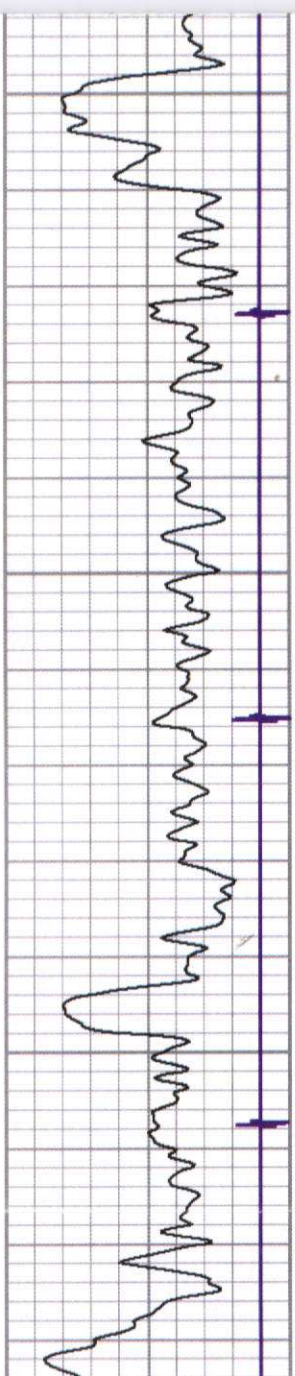


1250

1300

1350

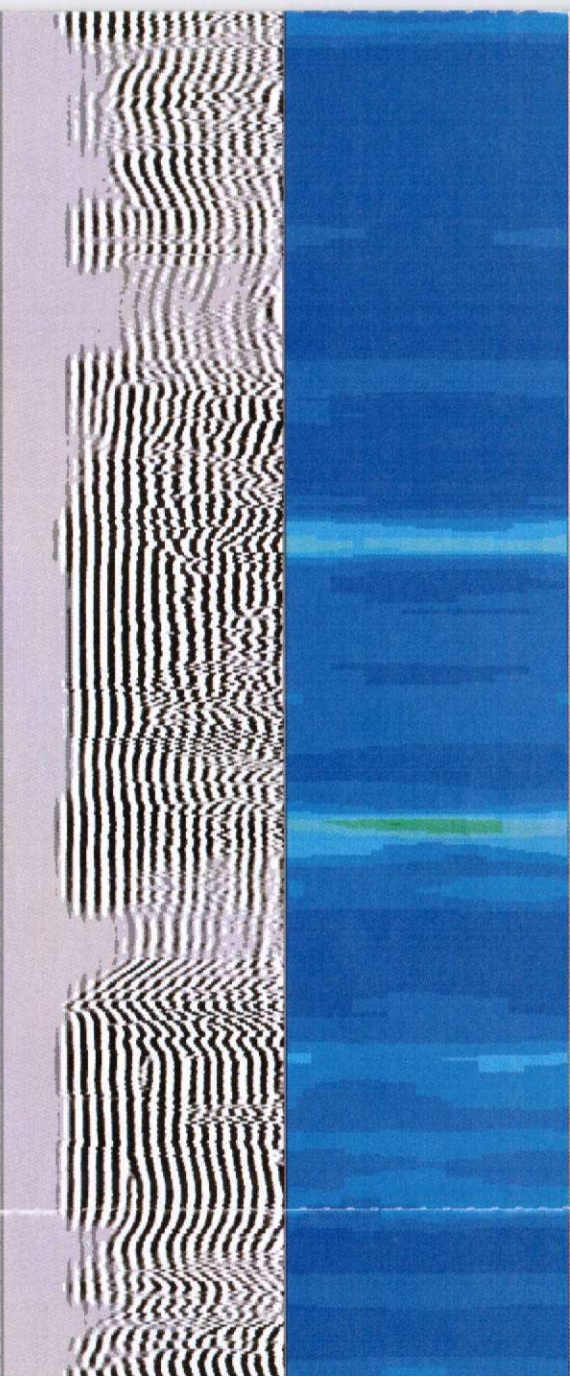
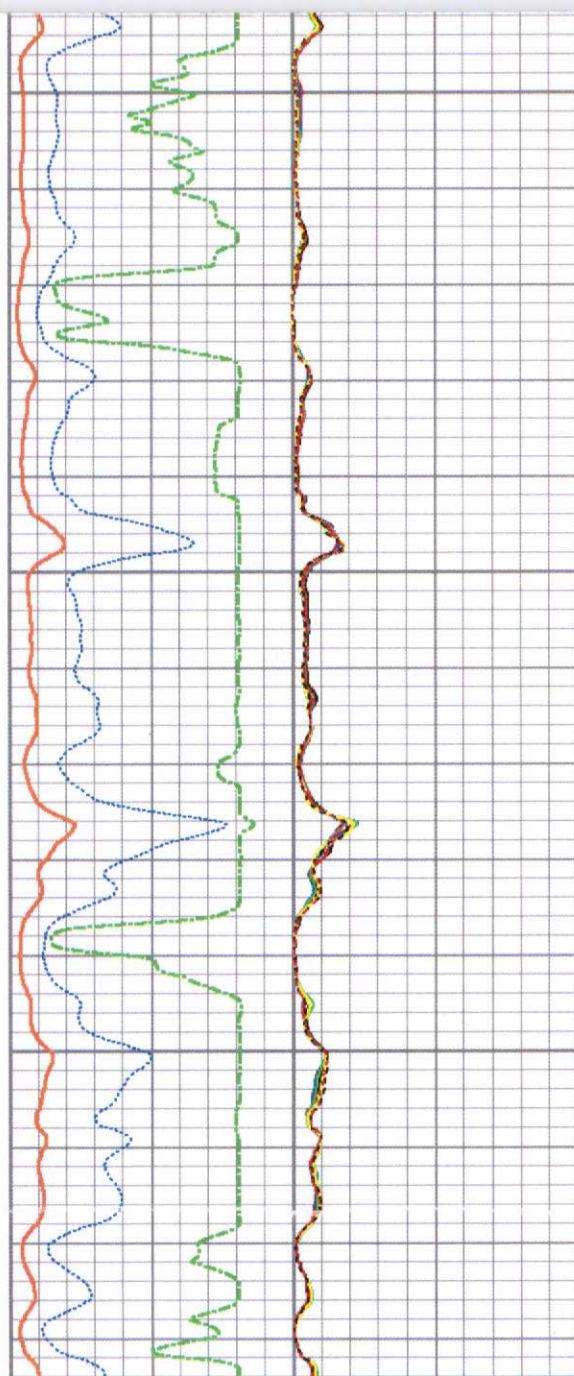


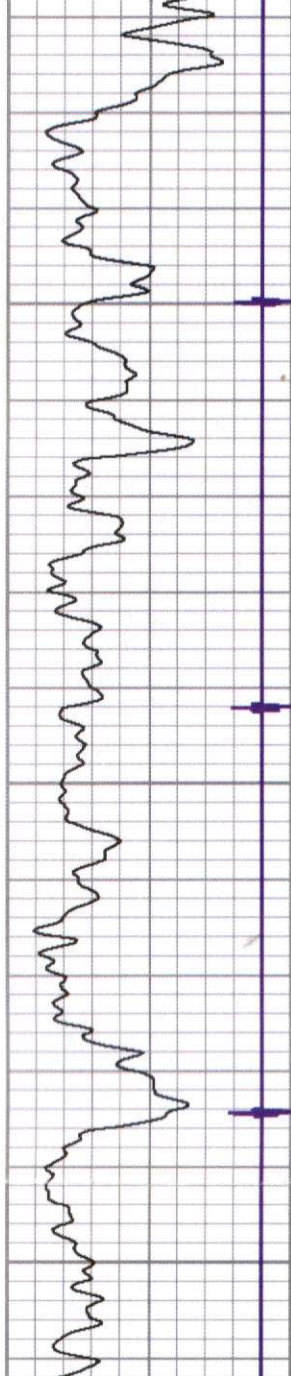


1350

1400

1450

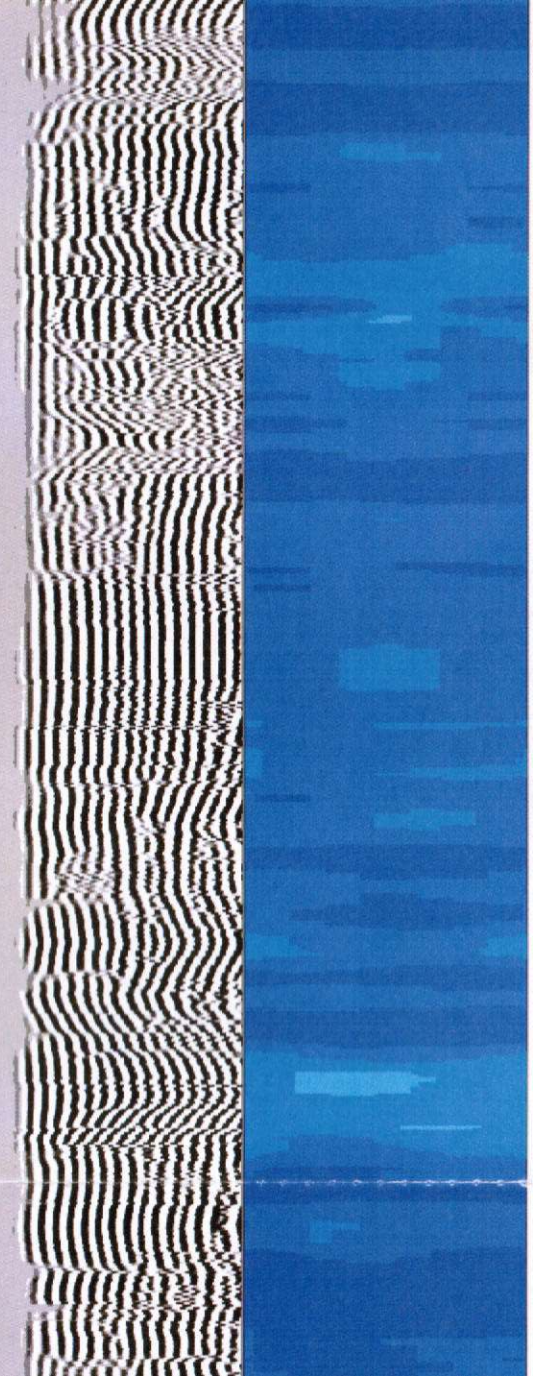
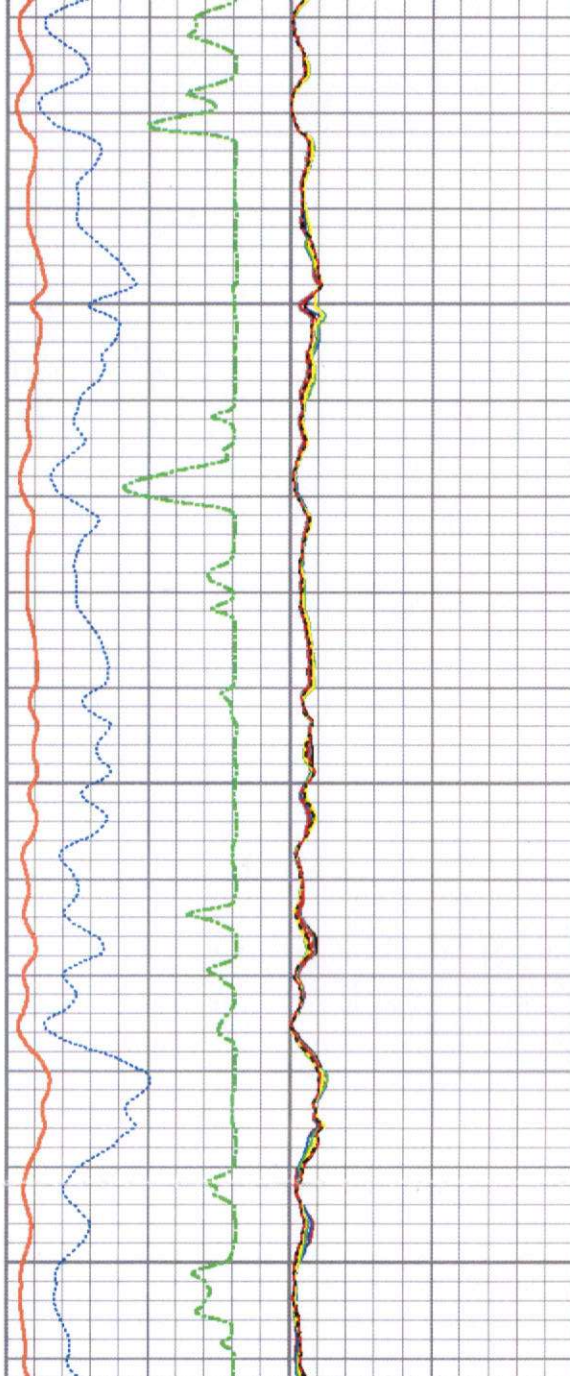


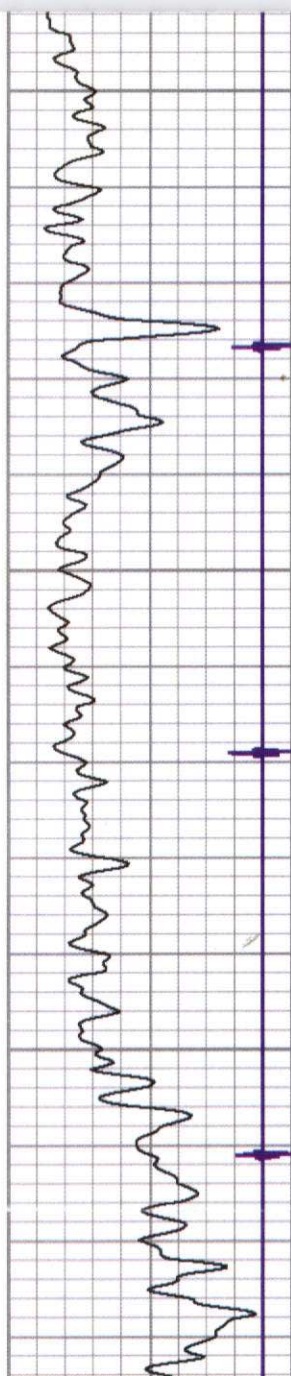


1500

1550

1600

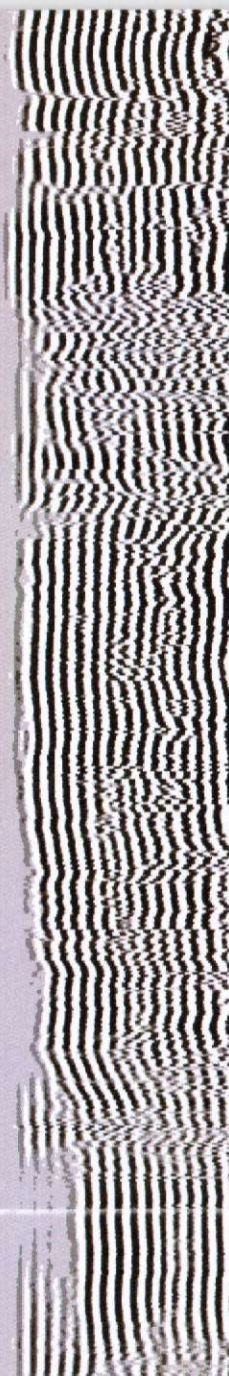
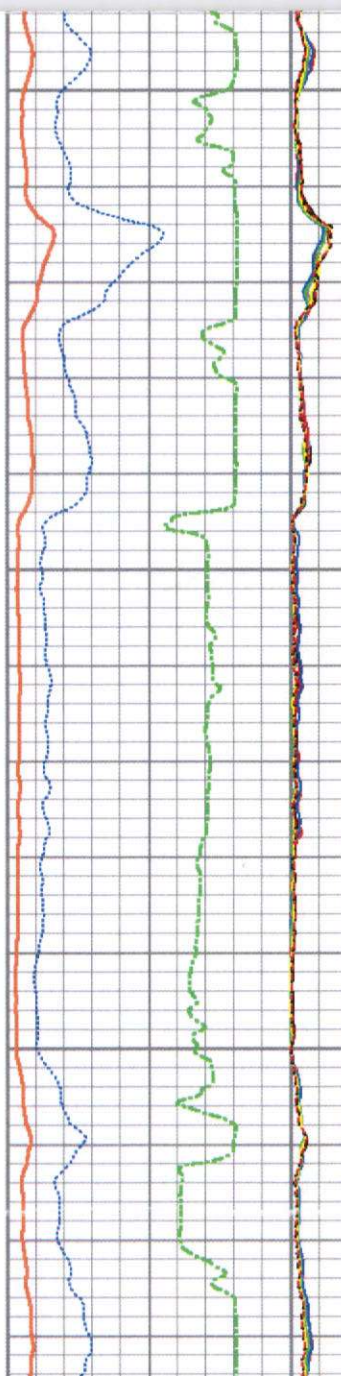


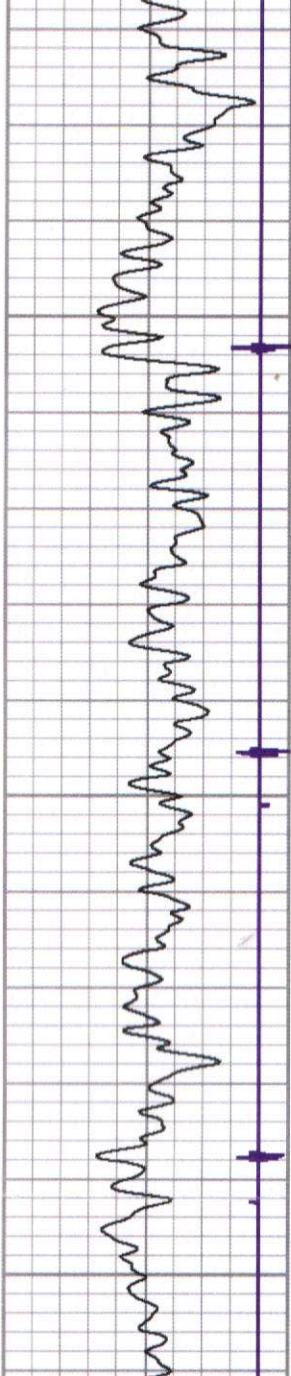


1600

1650

1700

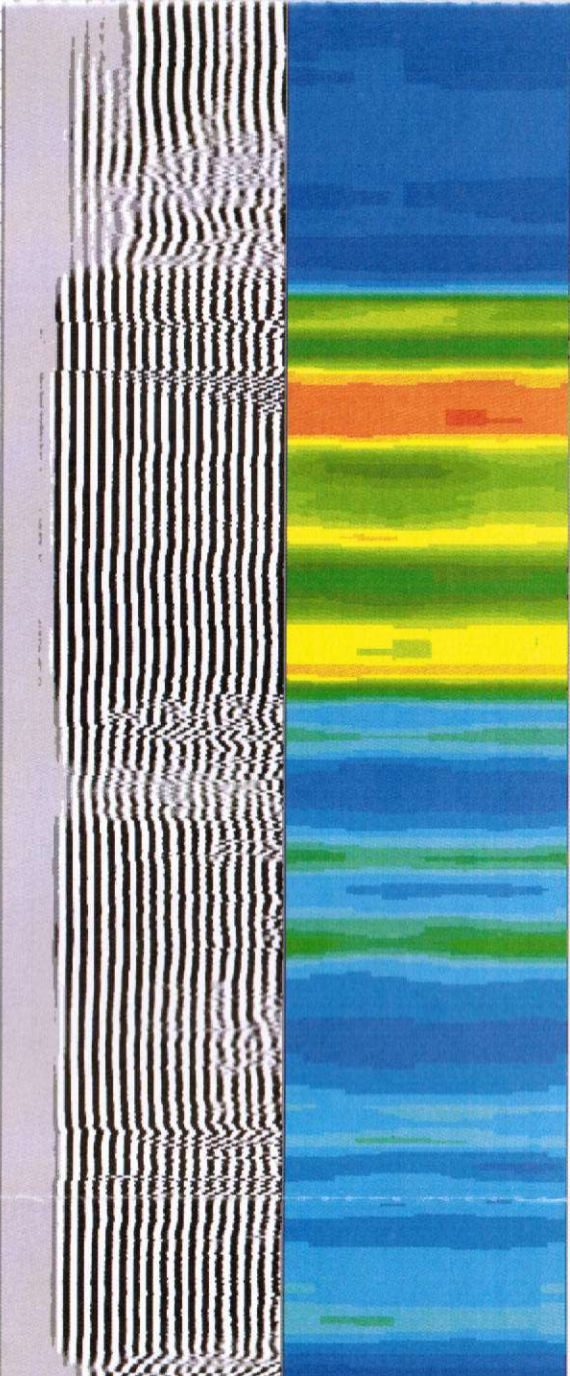
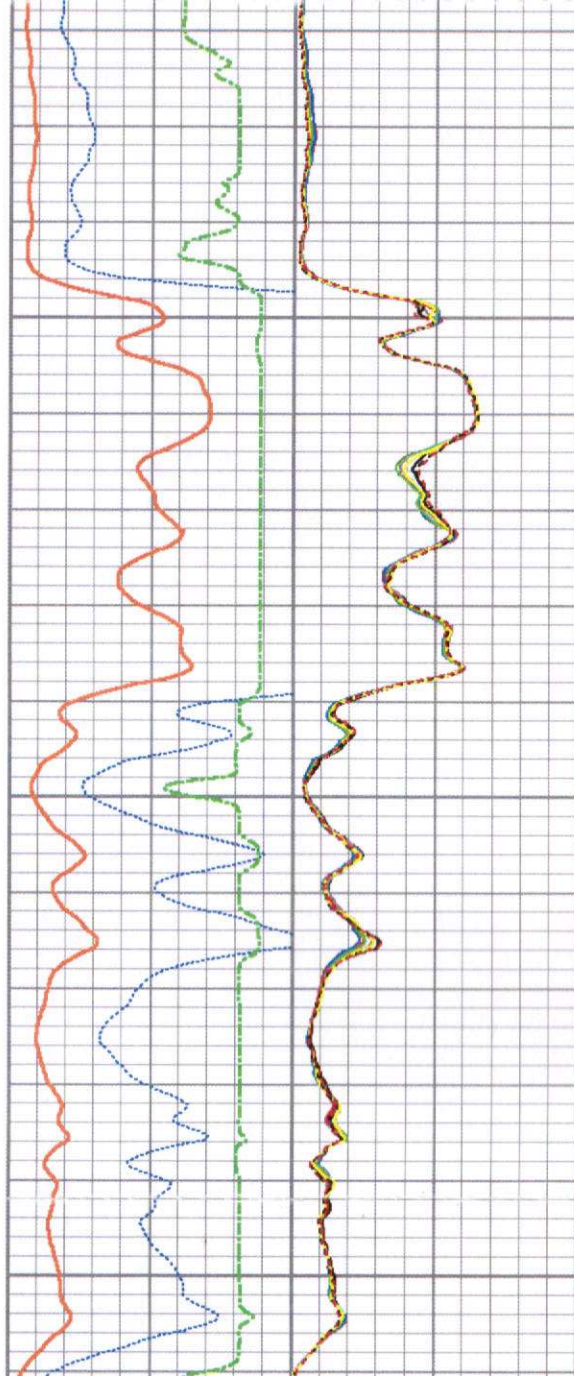




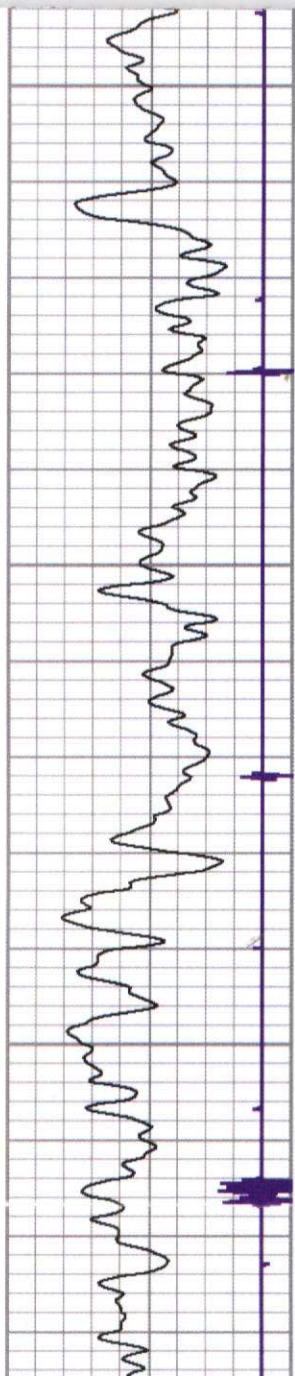
1750

1800

1850



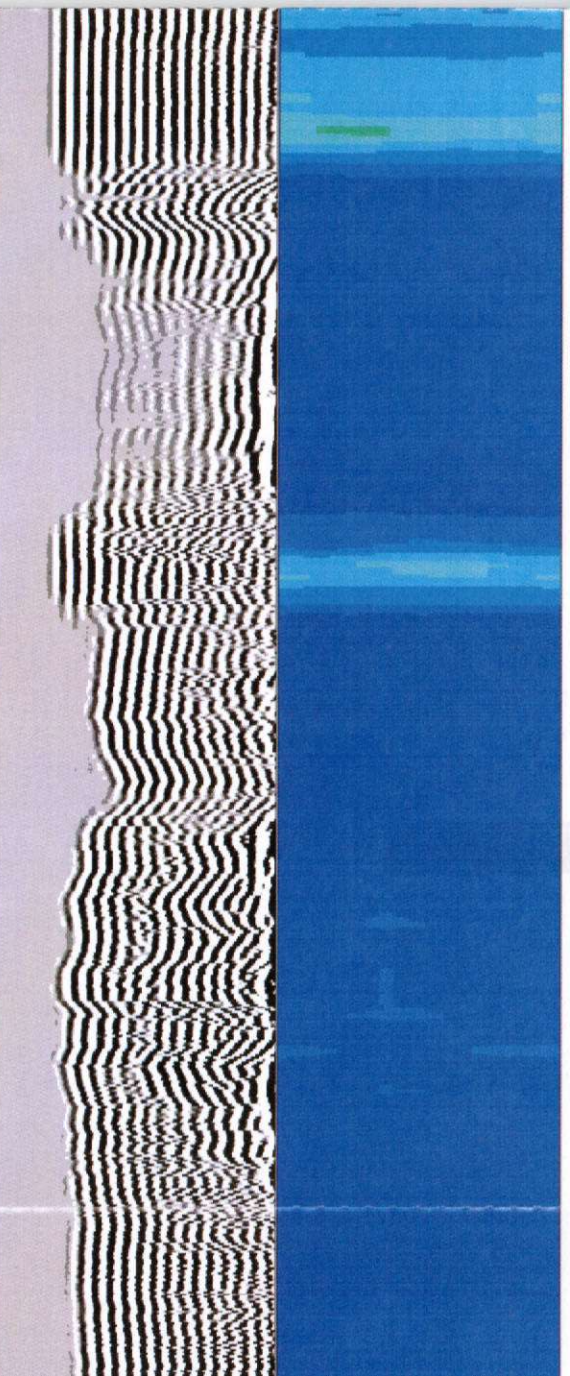
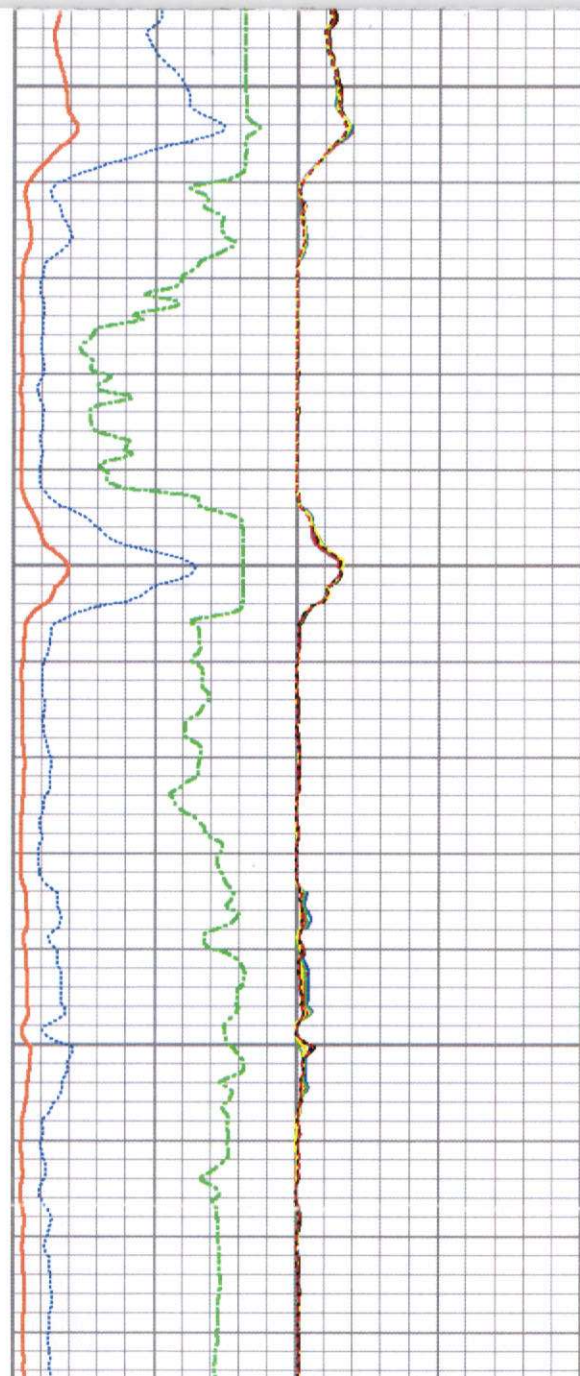


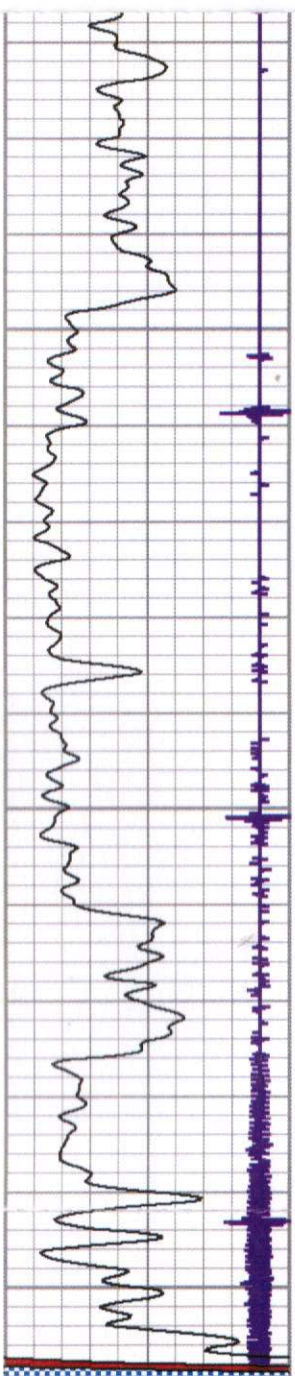


1850

1900

1950

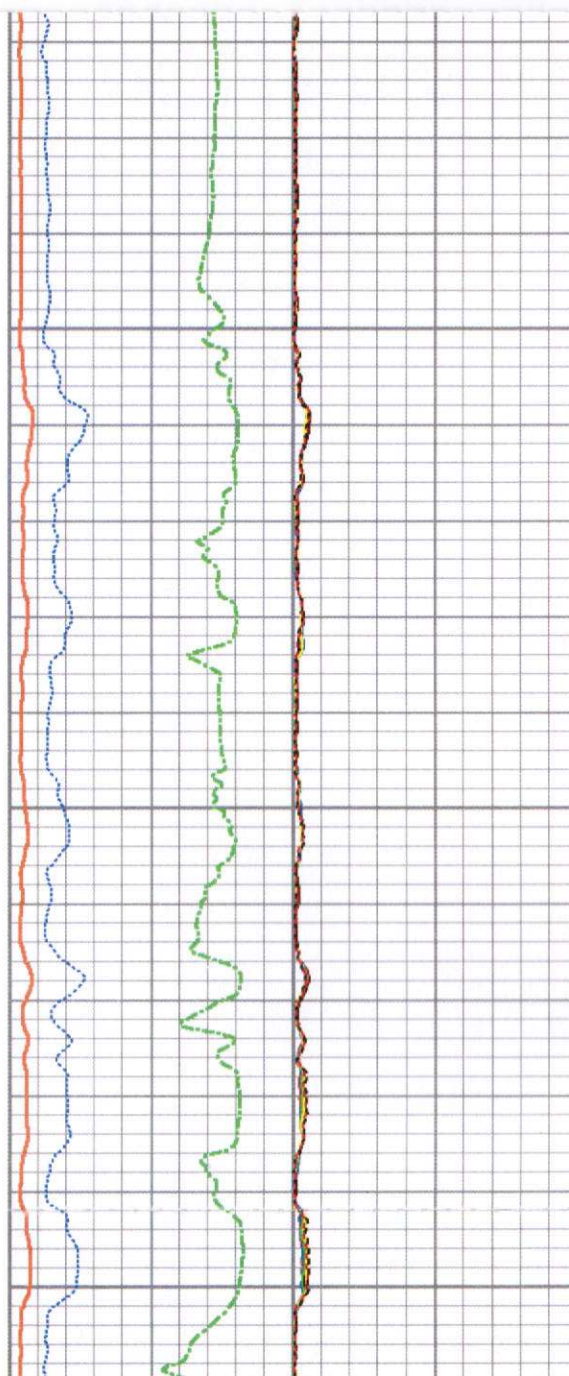


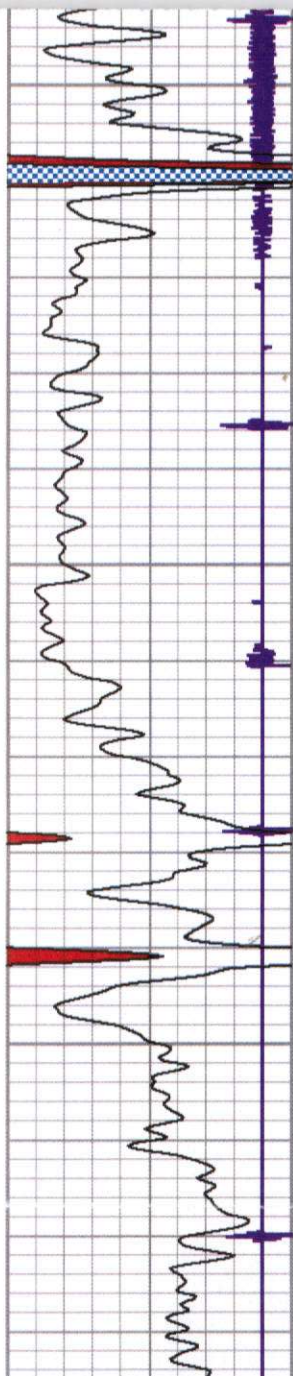


2000

2050

2100

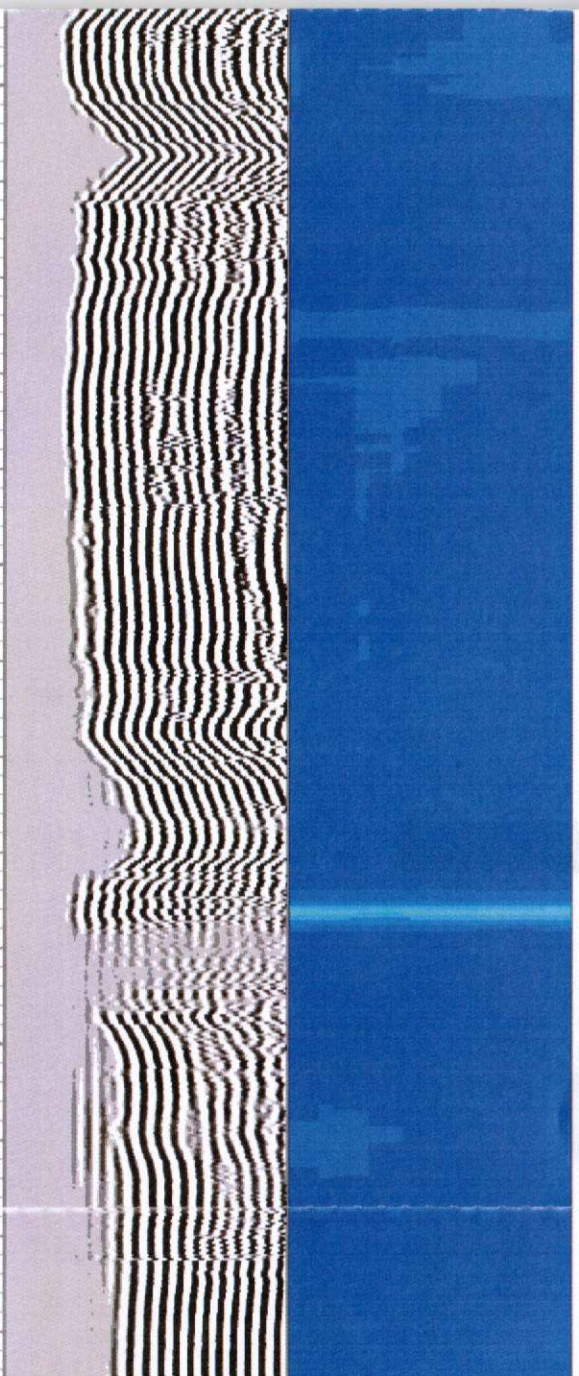
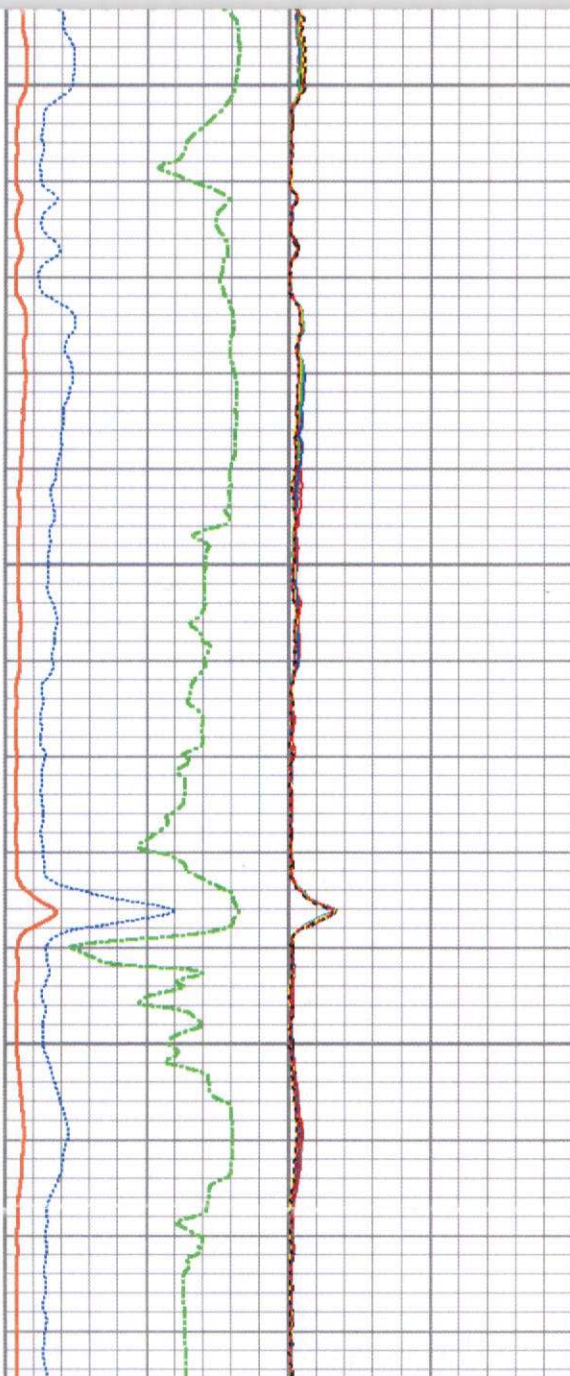


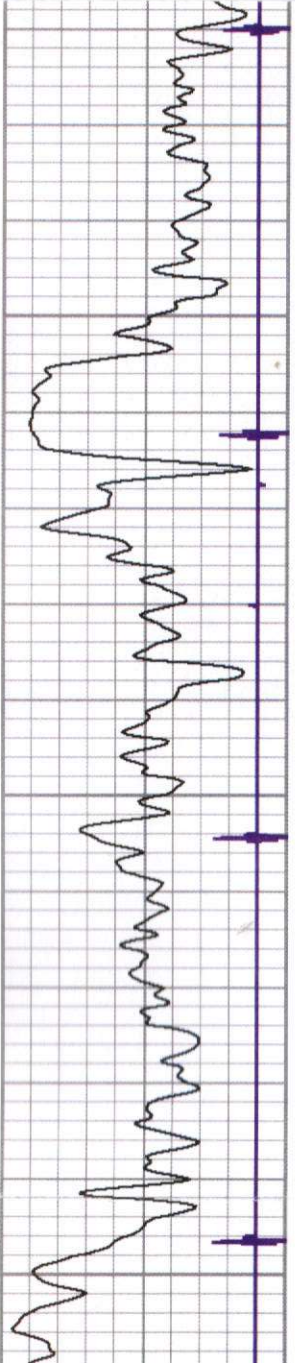


2100

2150

2200

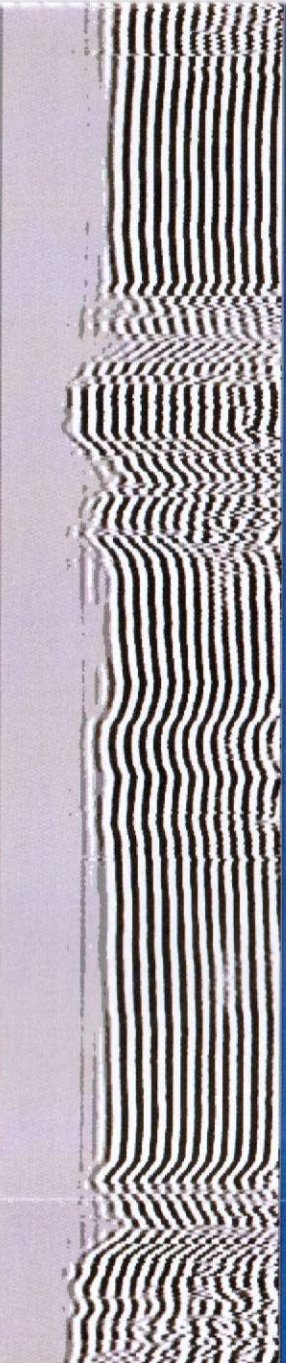
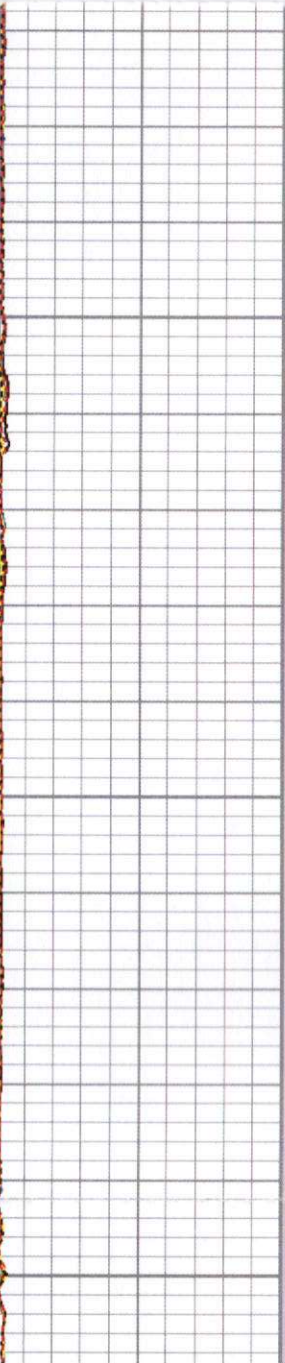
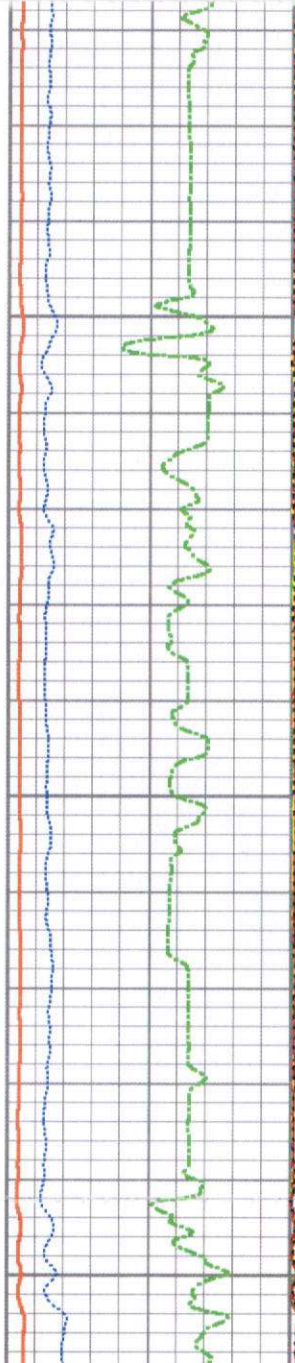


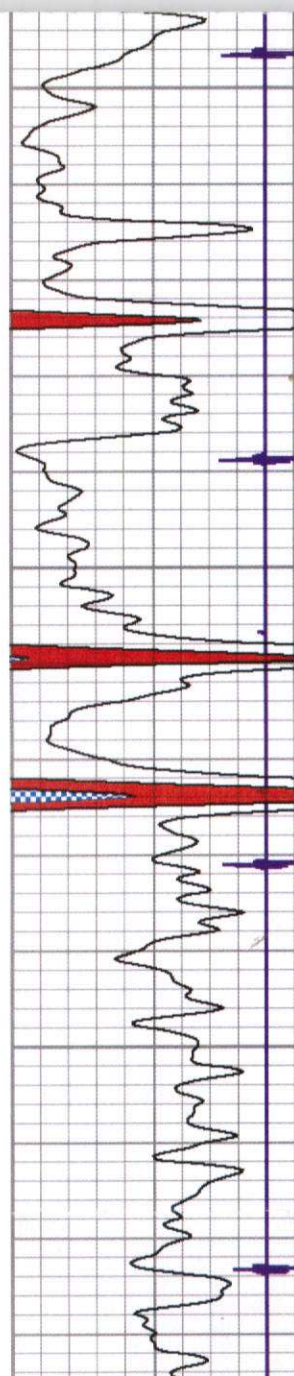


2250

2300

2350

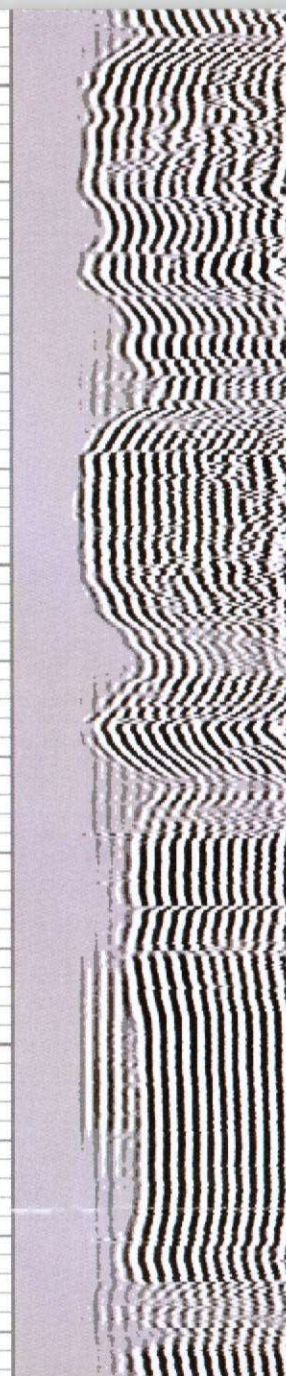
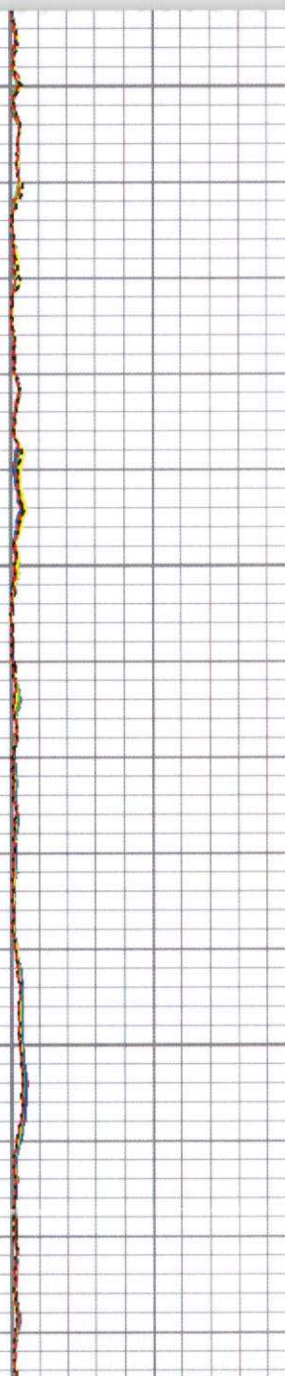
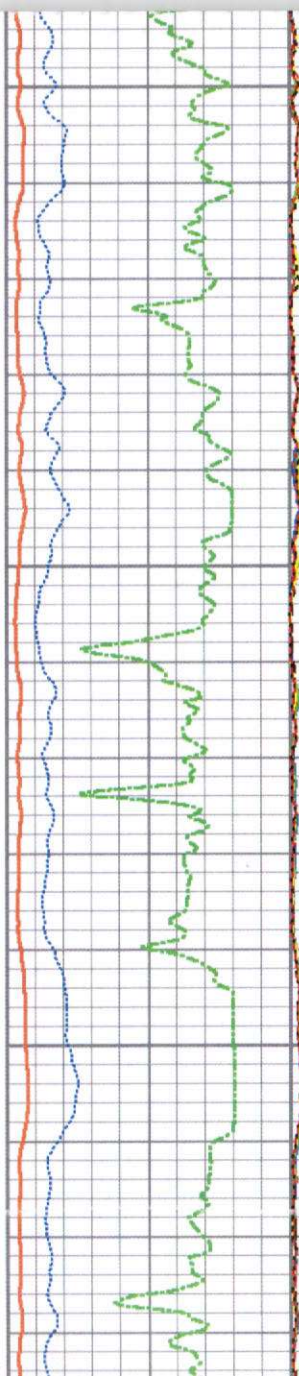


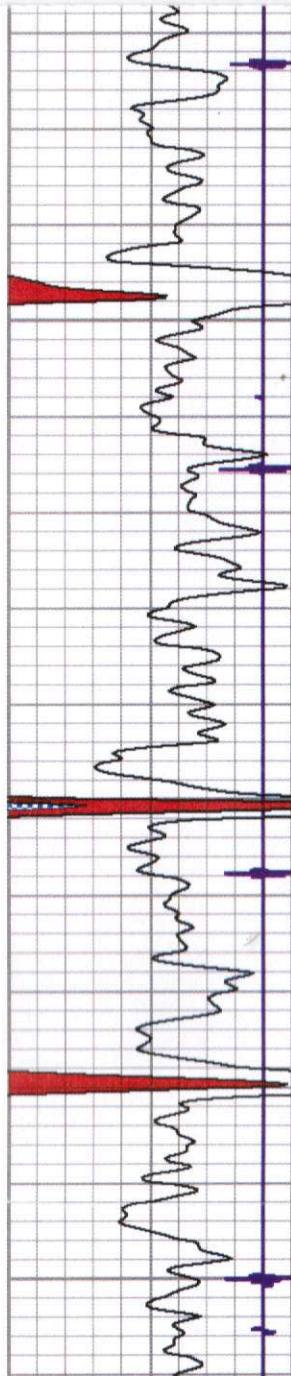


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2400

2450

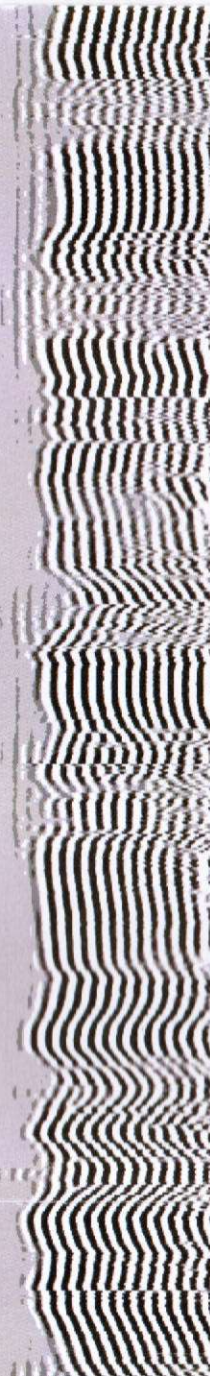
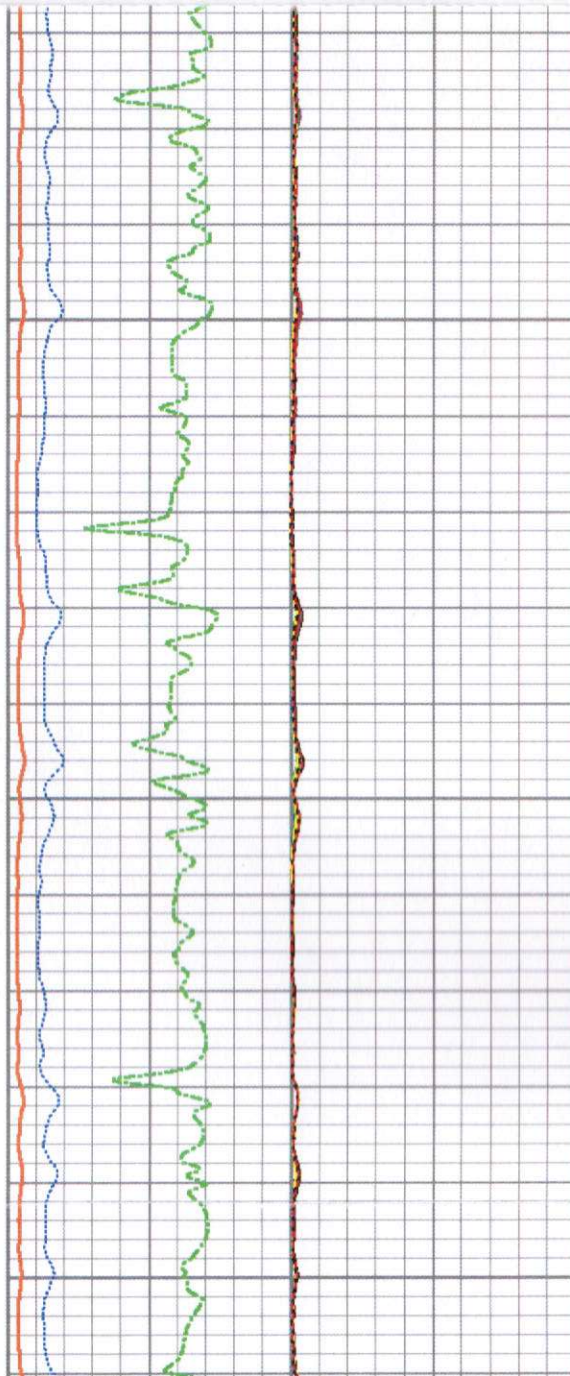


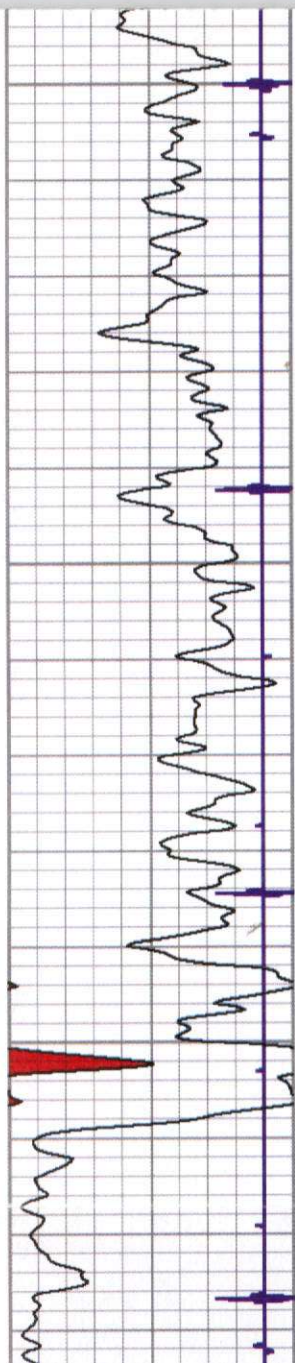


2500

2550

2600

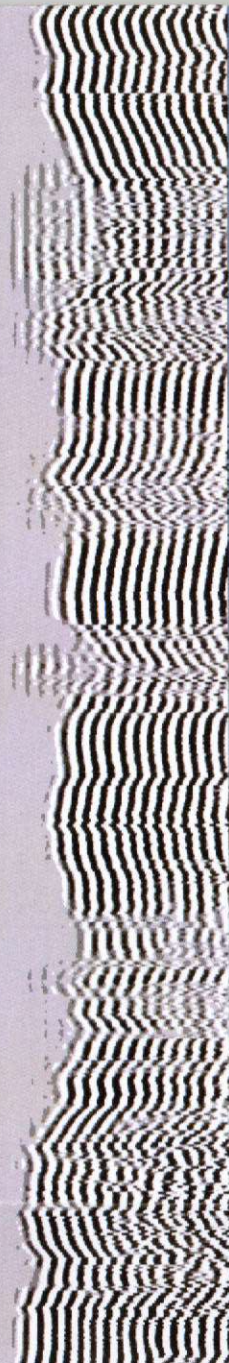
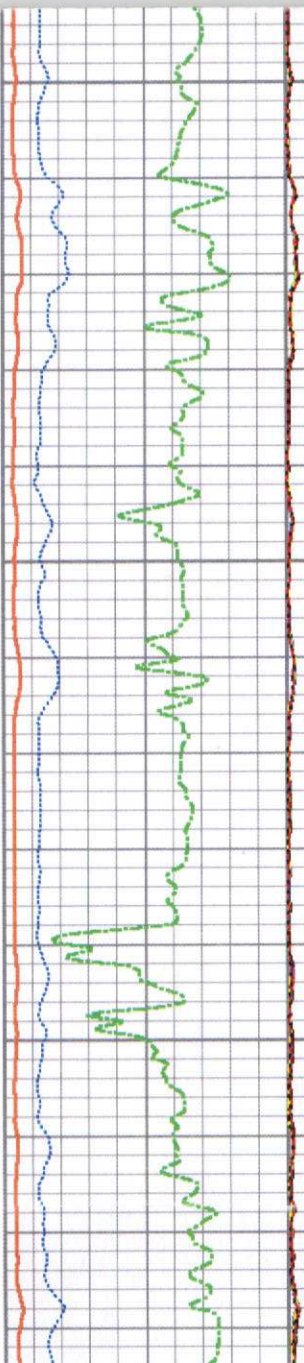


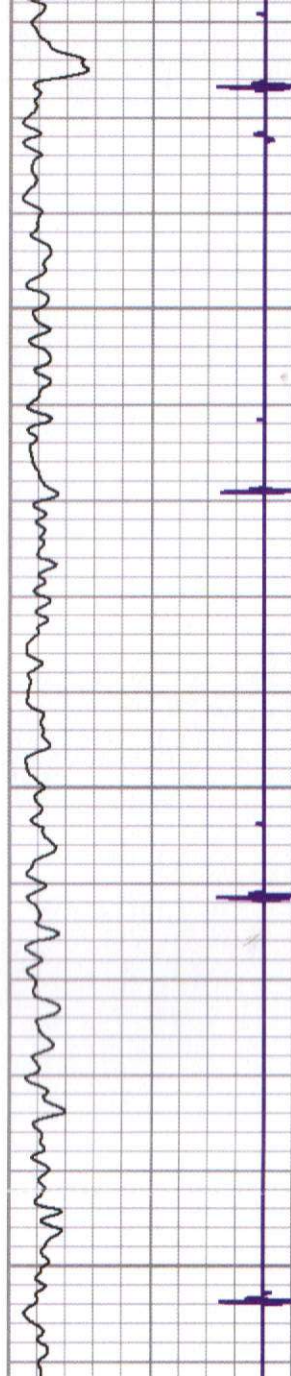


2600

2650

2700

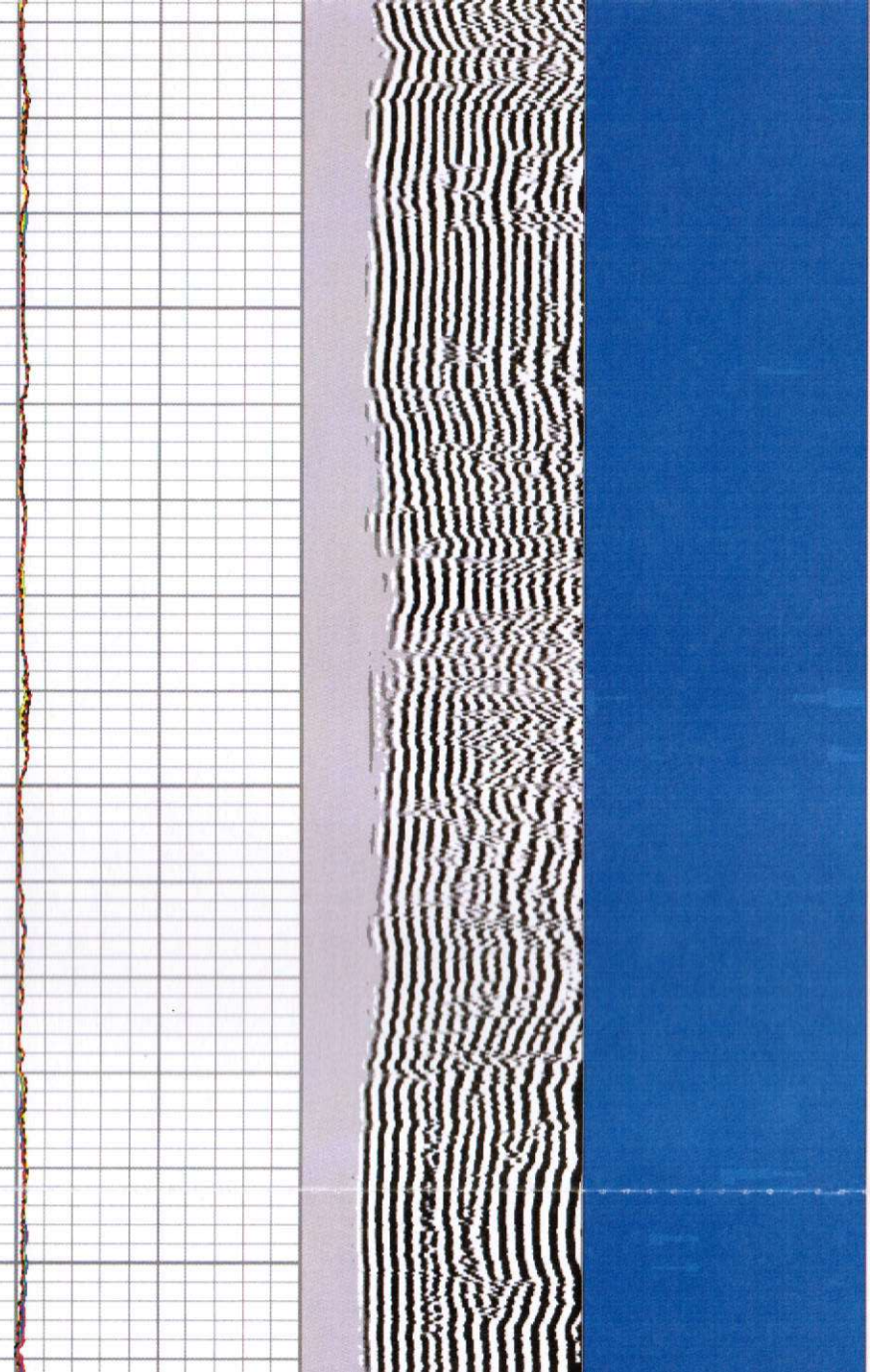
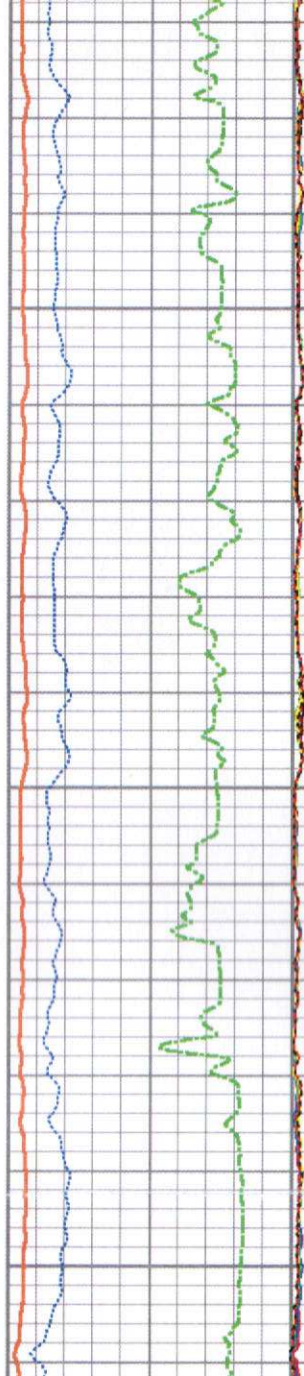




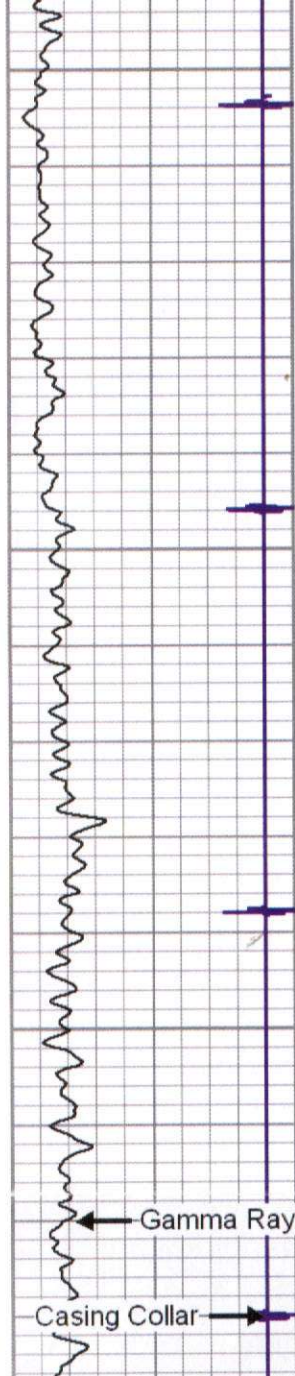
2750

2800

2850





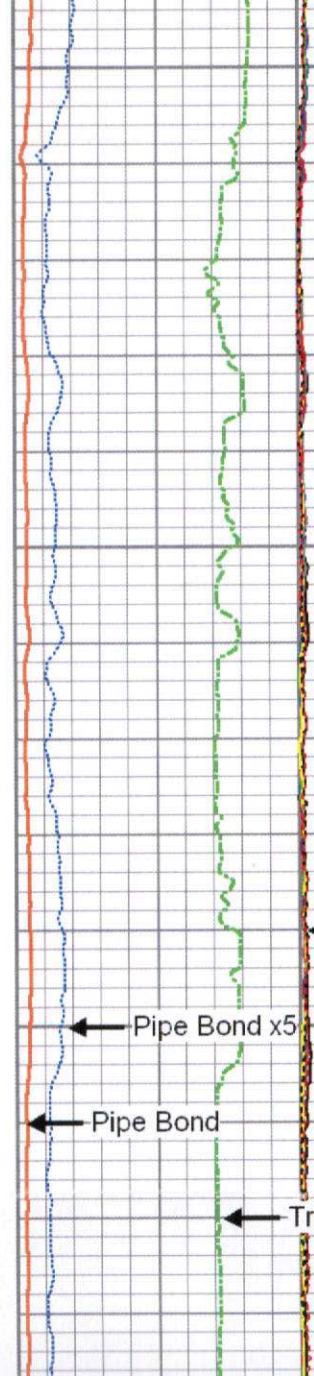


2850

2900

2950

Gamma Ray  
Casing Collar



Sectors 1-8

Pipe Bond x5

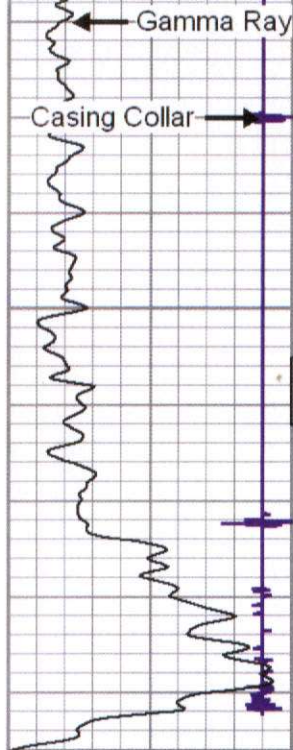
Pipe Bond

Travel Time

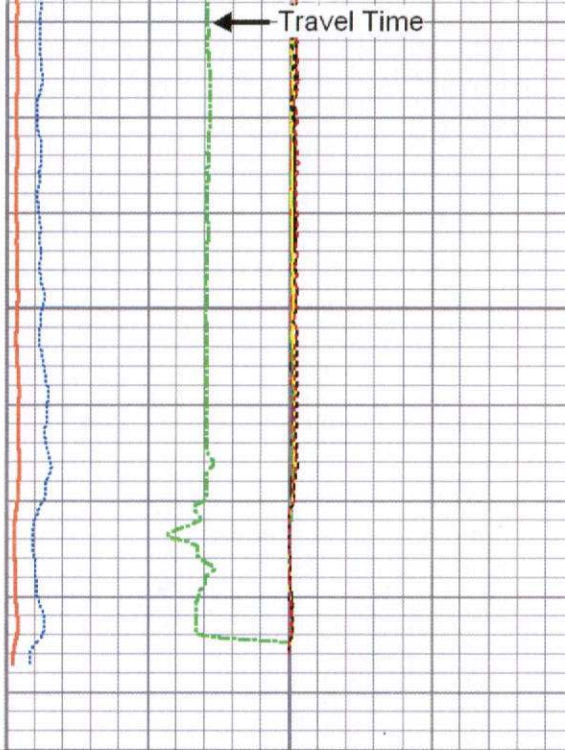


Variable Density

Radial Map

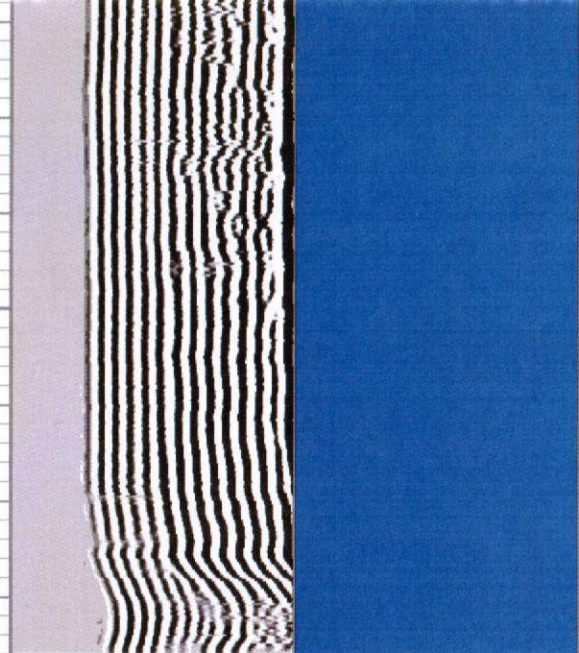


PERFS  
10/9/14

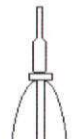


40	Casing Collar -4.5
	Gamma Ray
0	(GAPI) 150

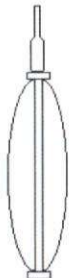

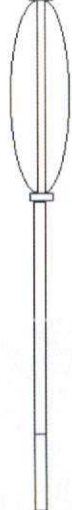
Pipe Bond	0	Sector 1	100
(mV)	100	Sector 2	100
Pipe Bond x5	0	Sector 3	100
(mV)	30	Sector 4	100
Travel Time	0	Sector 5	100
(usec)	200	Sector 6	100
		Sector 7	100
		Sector 8	100



Variable Density	1	Radial Map	8
	200		72

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	10.00

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	10.00
			PROBE	3.17	1.69	10.00
WV3FT	12.10		RBT-Probe (070131) Prototype Probe Radii Bond Tool with Digital Telemetry	8.33	2.75	90.00
WVFCAL	12.10					
WVFS1	12.10					
WVFS2	12.10					
WVFS3	12.10					
WVFS4	12.10					
WVFS5	12.10					
WVFS6	12.10					
WVFS7	12.10					
WVFS8	12.10					
WV5FT	11.10	PROBE	3.17	1.69	10.00	
CCL	3.63	GR-Probe275dig (080921) Probe Digital Gamma CCL	4.75	2.75	57.00	
GR	0.90					

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	10.00
			PROBE	3.17	1.69	10.00
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WVFS1	12.10					
WVFS2	12.10					
WVFS3	12.10					
WVFS4	12.10					
WVFS5	12.10					
WVFS6	12.10					
WVFS7	12.10					
WVFS8	12.10					
WV5FT	11.10		PROBE	3.17	1.69	10.00
CCL	3.63		GR-Probe275dig (080921) Probe Digital Gamma CCL	4.75	2.75	57.00
GR	0.90					

GR	0.90		GR-Probe275dig (080921) Probe Digital Gamma CCL	4.75	2.75	57.00
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	Dataset:	ow6-3591 t and r oil denton 15.db: field/well/run1/pass1
	Total Length:	20.42 ft
	Total Weight:	177.00 lb
	O.D.	2.75 in

Elite Cementing & Acid Service, LLC

810 E 7th, PO Box 92  
Eureka, KS 67045



Date	Invoice #
9/23/2014	1729

Bill To	
T&R Oil Co. Box 92 Moline, KS 67353	
Customer ID#	1105

Job Date	9/22/2014
Lease Information	
Denton #15	
County	Cowley
Foreman	SM

Item	Description	Qty	Terms	Net 30
			Rate	Amount
C101	Cement Pump-Surface	1	840.00	840.00
C107	Pump Truck Mileage (one way)	35	3.95	138.25
C200	Class A Cement-94# sack	115	15.00	1,725.00T
C205	Calcium Chloride	325	0.60	195.00T
C206	Gel Bentonite	215	0.20	43.00T
C108A	Ton Mileage (min. charge)	1	345.00	345.00

**We appreciate your business!**

Phone #	Fax #
620-583-5561	620-583-5524
E-mail	
rene@elitecementing.com	

<b>Subtotal</b>	\$3,286.25
<b>Sales Tax (6.4%)</b>	\$125.63
<b>Total</b>	\$3,411.88
Payments/Credits	\$0.00
<b>Balance Due</b>	\$3,411.88

pd- 9-25-14  
A 3411.88  
ck# 4985

Elite Cementing & Acid Service, LLC

810 E 7th, PO Box 92  
Eureka, KS 67045



Date	Invoice #
9/30/2014	1756

Job Date	9/27/2014
Lease Information	
Denton #15	
County	Cowley
Foreman	KM

Bill To	
T&R Oil Co. Box 92 Moline, KS 67353	
Customer ID#	1105

Item	Description	Qty	Terms	Net 30
			Rate	Amount
C102	Cement Pump-Longstring	1	1,050.00	1,050.00
C107	Pump Truck Mileage (one way)	35	3.95	138.25
C102	Cement Pump-Longstring	1	1,050.00	1,050.00
C201	Thick Set Cement	170	19.50	3,315.00T
C207	KolSeal	850	0.45	382.50T
C208	Pheno Seal	340	1.25	425.00T
C203	Pozmix Cement 60/40	340	12.75	4,335.00T
C206	Gel Bentonite	1,750	0.20	350.00T
C208	Pheno Seal	680	1.25	850.00T
C108B	Ton Mileage-per mile (one way)	838.95	1.35	1,132.58
C752	5 1/2" Type A Packer Shoe (7 3/4 x 8)	1	1,400.00	1,400.00T
C681	5 1/2" Float Collar Body Only	1	225.00	225.00T
C604	5 1/2" Cement Basket	2	225.00	450.00T
C504	5 1/2" Centralizer	6	48.00	288.00T
C776	5 1/2" DV Tool with Plugs	1	3,325.00	3,325.00T
C781	5 1/2" Stop Collar	1	30.00	30.00T

**We appreciate your business!**

Phone #	Fax #
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E-mail	
rene@elitecementing.com	

<b>Subtotal</b>	\$18,746.33
<b>Sales Tax (6.4%)</b>	\$984.03
<b>Total</b>	\$19,730.36
Payments/Credits	\$0.00
<b>Balance Due</b>	\$19,730.36

pd - 9-30-14  
\$19,730.36  
CR # 4996

Elite Cementing & Acid Service, LLC

810 E 7th, PO Box 92  
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Date	Invoice #
<del>9-30-14</del> 9-30-14	1775

Bill To	
T&R Oil Co. Box 92 Moline, KS 67353	
Customer ID#	1105

Job Date	<del>9-30-14</del> 10/3/2014
Lease Information	
Denton #15	
County	Cowley
Foreman	RL

Item	Description	Qty	Terms	Net 30
			Rate	Amount
C101	Cement Pump-Surface	1	840.00	840.00
C107	Pump Truck Mileage (one way)	35	3.95	138.25
C203	Pozmix Cement 60/40	30	12.75	382.50T
C206	Gel Bentonite	100	0.20	20.00T
C108A	Ton Mileage (min. charge)	1	345.00	345.00
C118	1" Hydril Rent, elevators & wash head	210	0.30	63.00T
<p><i>pd-9-30-14</i> <i># 1818.54</i> <i>ch# 4998</i></p>				

**We appreciate your business!**

Phone #	Fax #
620-583-5561	620-583-5524
E-mail	
rene@elitecementing.com	

<b>Subtotal</b>	\$1,788.75
<b>Sales Tax (6.4%)</b>	\$29.79
<b>Total</b>	\$1,818.54
Payments/Credits	\$0.00
<b>Balance Due</b>	\$1,818.54



Elite Cementing & Acid Service, LLC

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Date	Invoice #
9/23/2014	1729

Bill To	
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Customer ID#	1105

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Lease Information	
Denton #15	
County	Cowley
Foreman	SM

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pd- 9-25-14  
A 3411.88  
ck# 4985

Elite Cementing & Acid Service, LLC

810 E 7th, PO Box 92  
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Date	Invoice #
9/30/2014	1756

Job Date	9/27/2014
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County	Cowley
Foreman	KM

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pd - 9-30-14  
\$19,730.36  
CR # 4996

Elite Cementing & Acid Service, LLC

810 E 7th, PO Box 92  
Eureka, KS 67045



Date	Invoice #
<del>9-30-14</del> 9-30-14	1775

Bill To	
T&R Oil Co. Box 92 Moline, KS 67353	
Customer ID#	1105

Job Date	<del>9-30-14</del> 10/3/2014
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County	Cowley
Foreman	RL

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