

**Michael Drilling, LLC**

P.O. Box 402  
Iola, KS 66749  
620-365-2755

468

Company: Birk, Brian L. dba Birk Petroleum  
Address: 874 12TH RD SW  
Burlington KS 66839  
Ordered By: Brian L. Birk

Date: 04/30/08  
Lease: Lassman  
County: Allen  
Well#: 122  
API#: 15-001-29738-00-00

**Drilling Log**

OP. # 33783

FEET	DESCRIPTION	FEET	DESCRIPTION
0-20	Overburden	772-960	Shale
20-51	Lime	960-979	Sand
51-60	Shale	979-1014	Shale
60-85	Lime	1014-1251	Mississippi Lime
85-106	Shale	1251-1273	Green Shale
106-219	Lime	1273-1324	Lime
219-231	Sandy Shale	1324-1337	Shale
231-410	Shale	1337-1356	Lime
410-429	Shale With Lime Streaks	1356	TD
429-433	Lime		
433-479	Shale With Lime Streaks		
479-550	Sandy Shale		
550-590	Shale		
590-610	Lime		
610-617	Black Shale		
617-624	Lime		
624-626	Black Shale		
626-628	Coal		
628-711	Sandy Shale		
711-714	Coal		
714-745	Shale		
745-747	Coal		
747-760	Sandy Shale		
760-772	Sand Sandy Shale oil show		



**MIDWEST SURVEYS**  
LOGGING - PERFORATING - CONSULTING SERVICES  
P.O. Box 68, Osawatomie, KS 66064  
913 / 755 - 2128

**GAMMA RAY / NEUTRON / CCL**

File No.

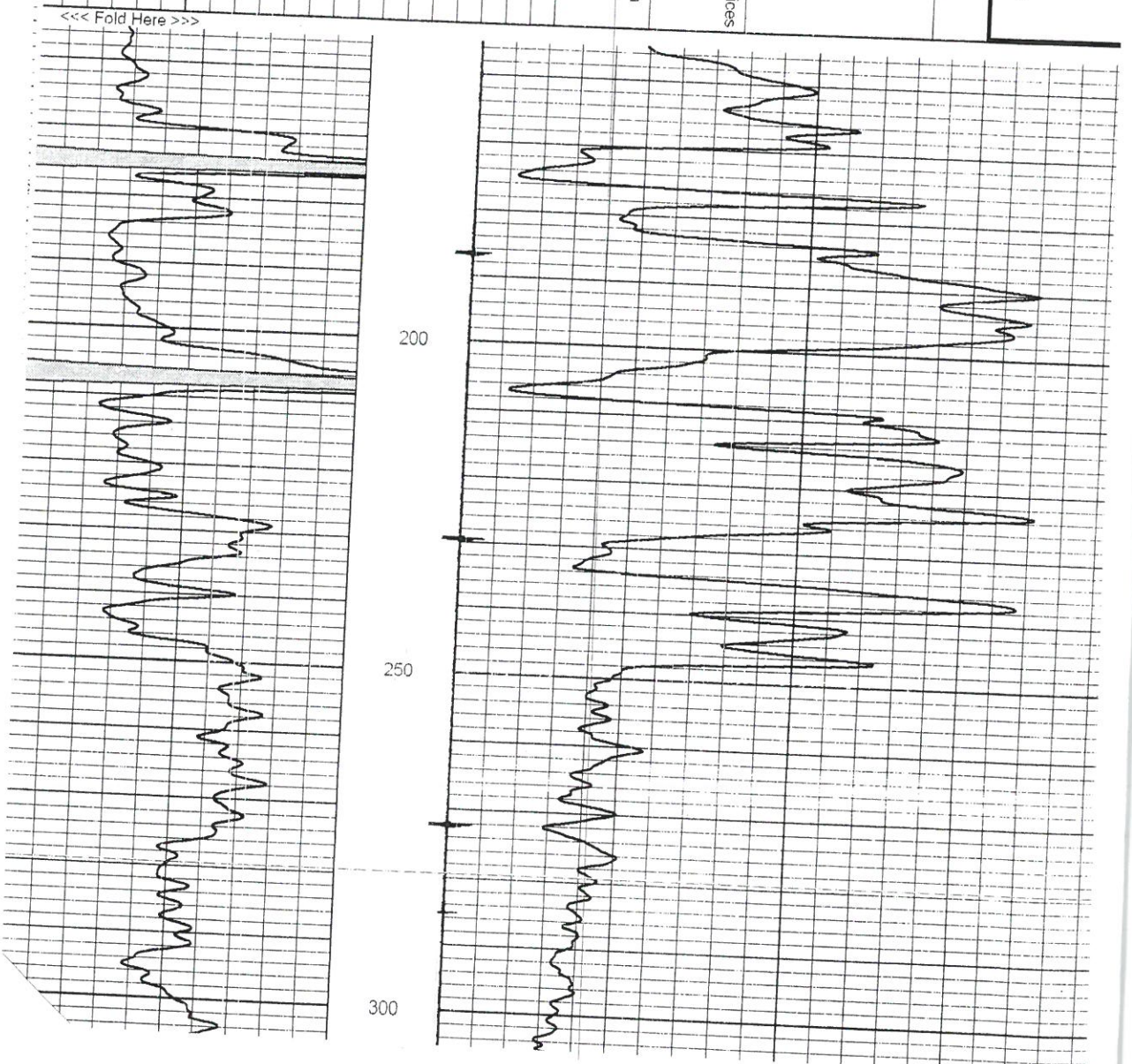
API # 15-001-29,738

Company **Birk Petroleum**  
Well **Lassman** No. **122**  
Field **Humboldt - Chanute**  
County **Allen** State **Kansas**

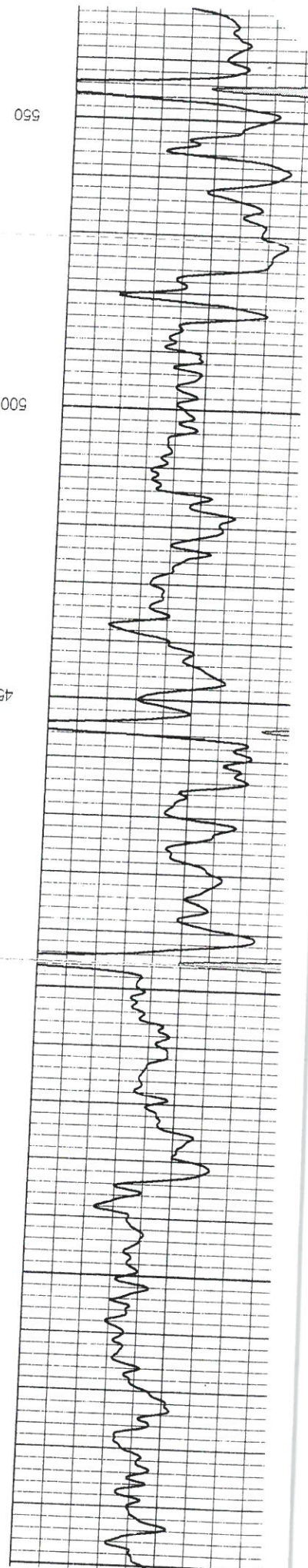
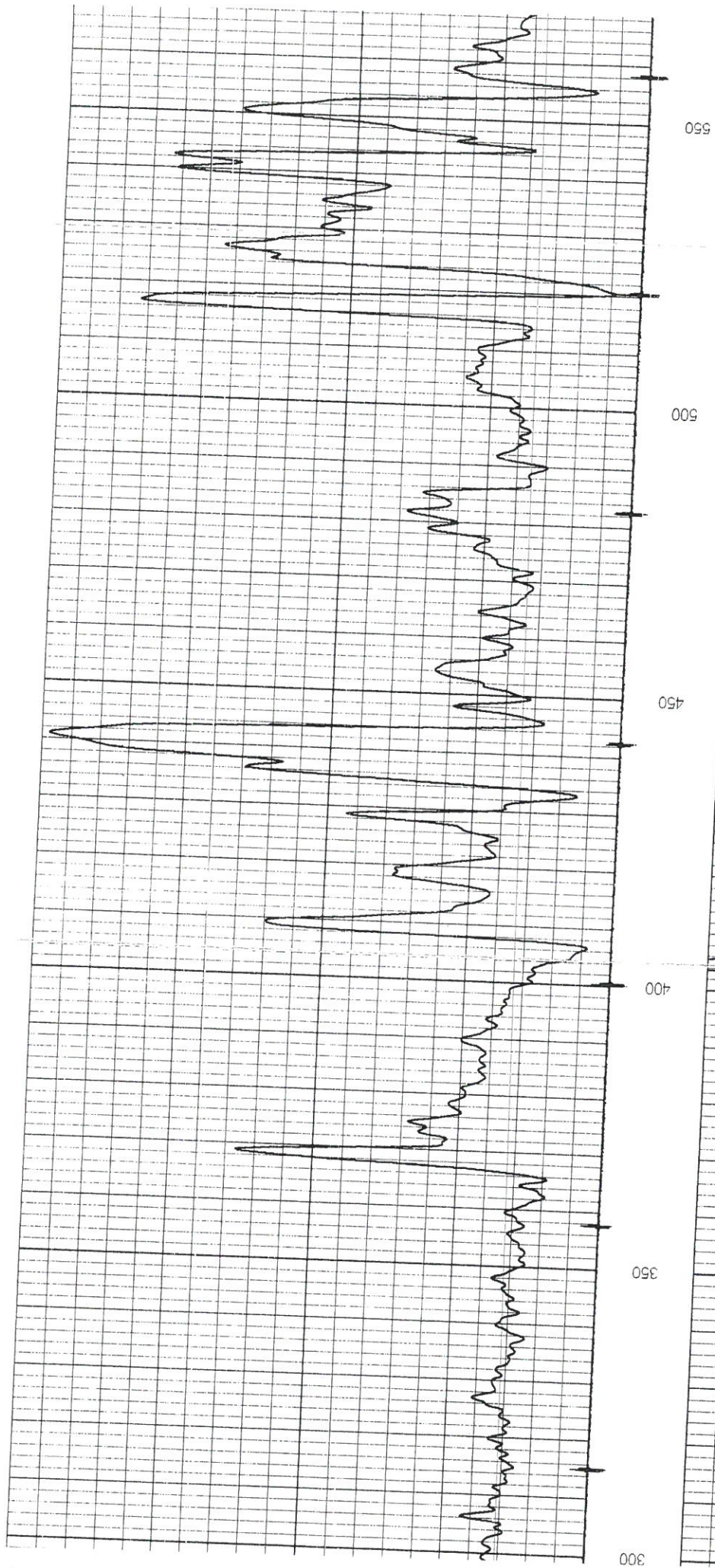
Location **300' FSL & 400' FWL**  
**SE-SW-SW-SW**  
Sec. **8** Twp. **26S** Rge. **19E**  
Permanent Datum **GL** Elevation **1011'**  
Log Measured From **GL**  
Drilling Measured From **GL**  
Other Services  
K.B. NA  
D.F. NA  
G.L. 1011'

Number	One
Driller	1356.0
Logger	1351.5
Log Interval	1349.5
Level	20.0
Fluid	Full
Viscosity	Water
PPM Cl	NA
Recorded Temp	NA
Cement Top	NA
ment No.	107
Location	Osawatomie
Recorded By	Steve Windisch
Issued By	Ed Birk

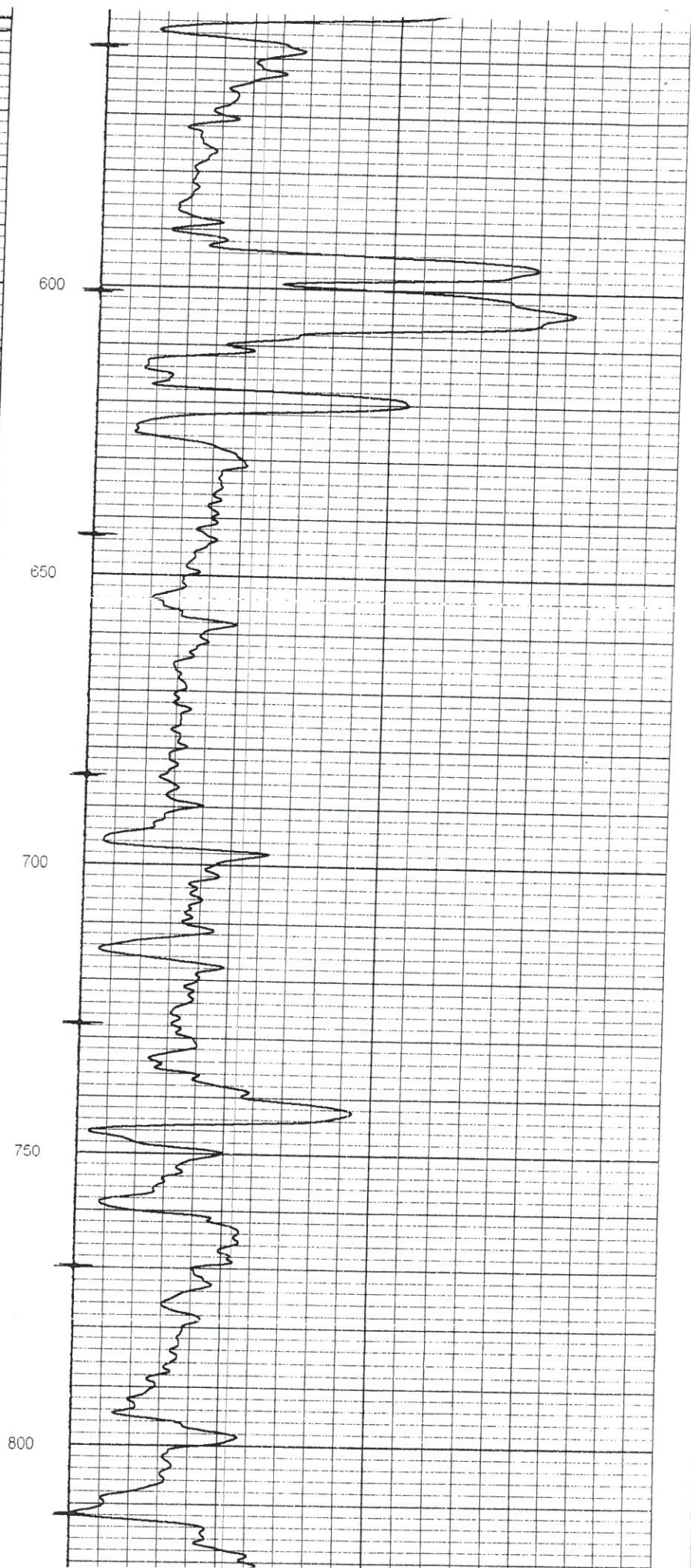
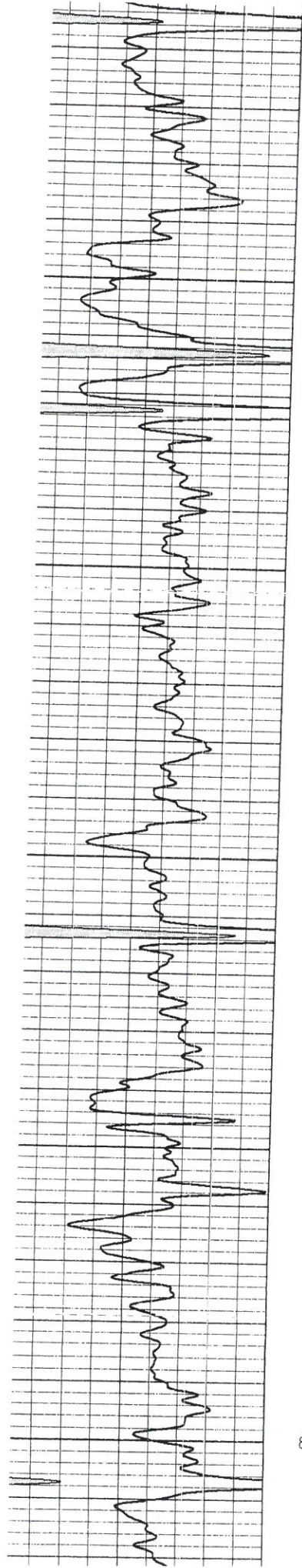
BORE-HOLE RECORD			CASING RECORD		
BIT	FROM	TO	SIZE	WGT.	FROM
12.25"	0.0	20.0	8.625"	0.0	20.0
6.75"	20.0	1356.0	4.50"	0.0	1355.0



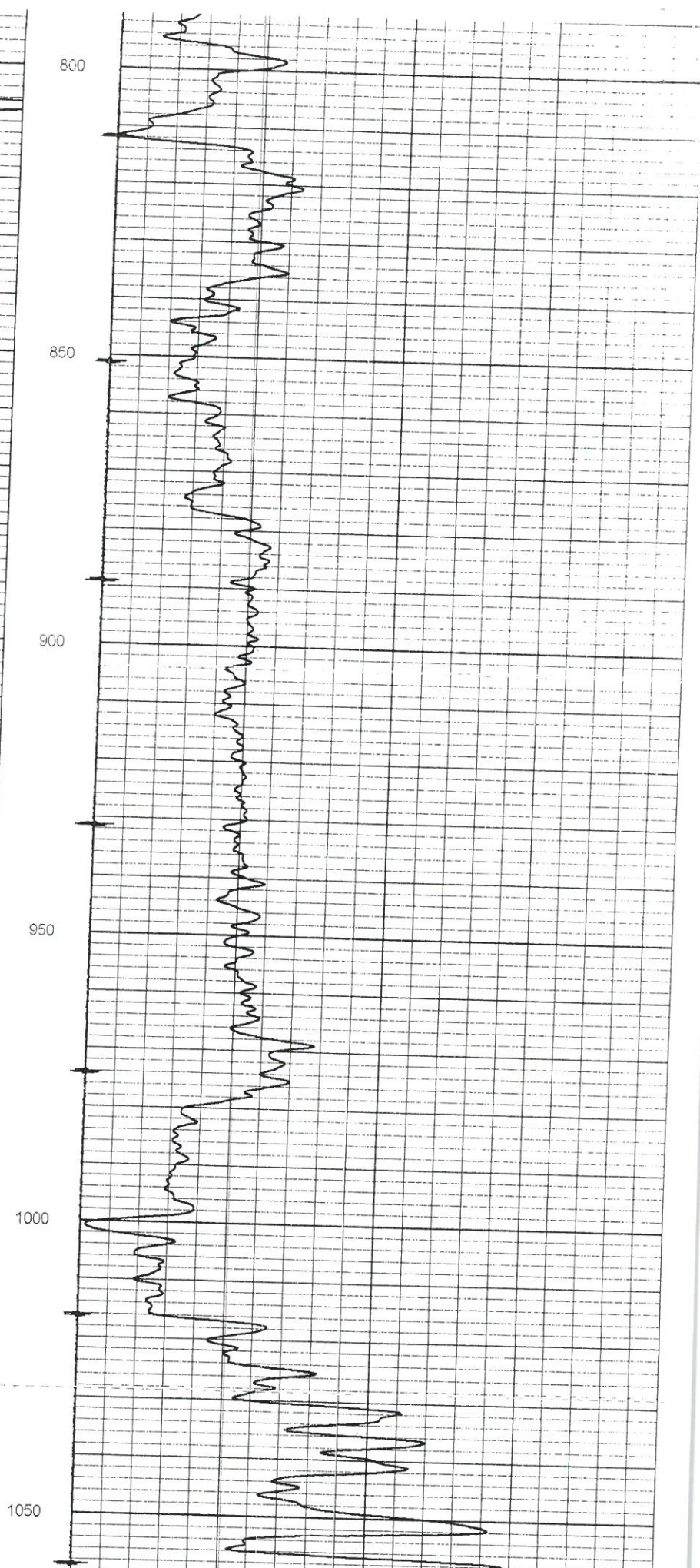
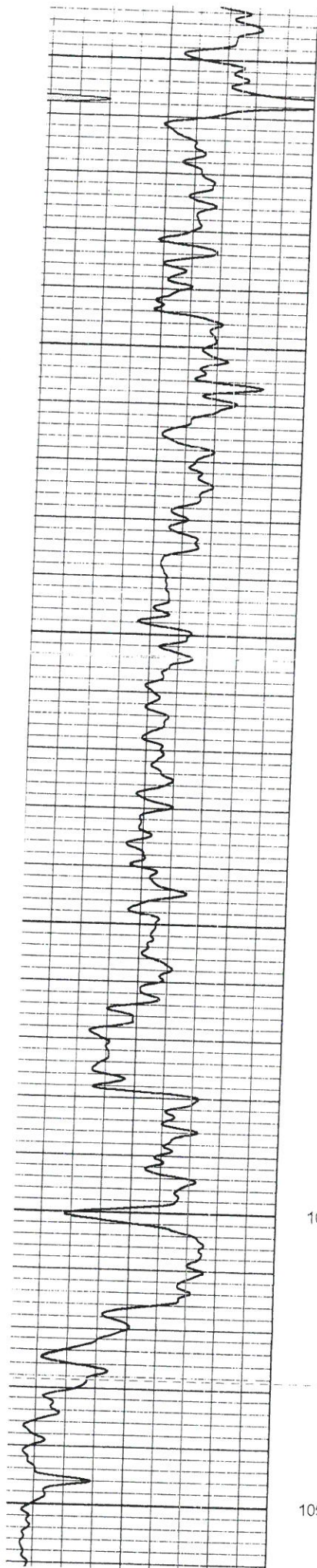




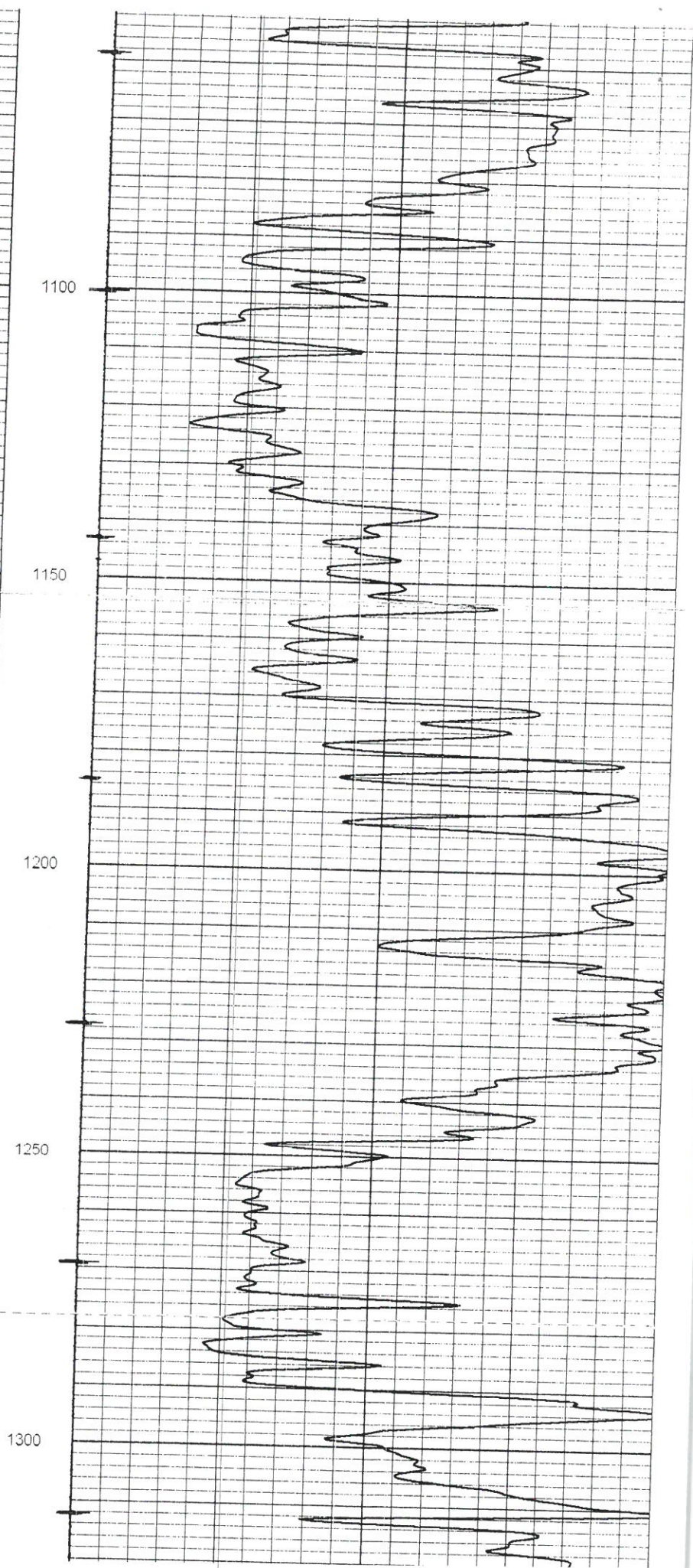
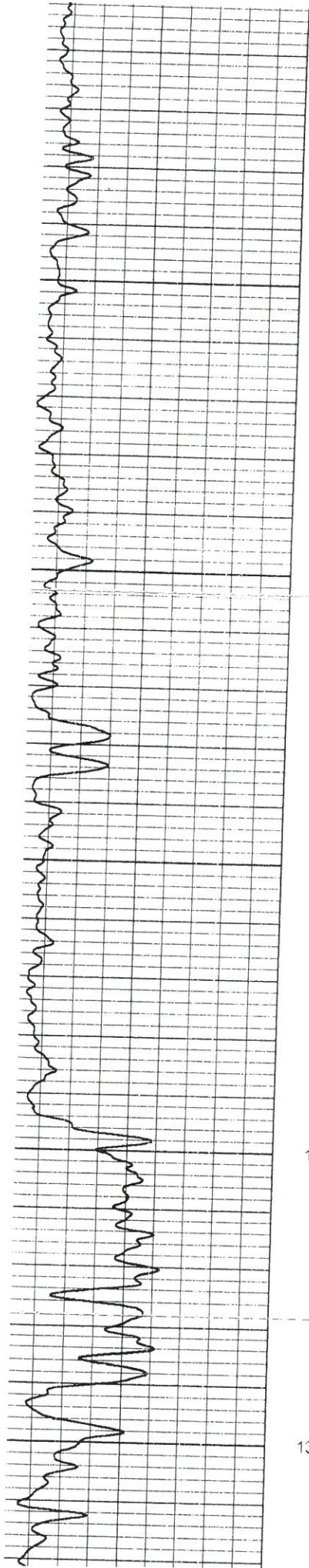




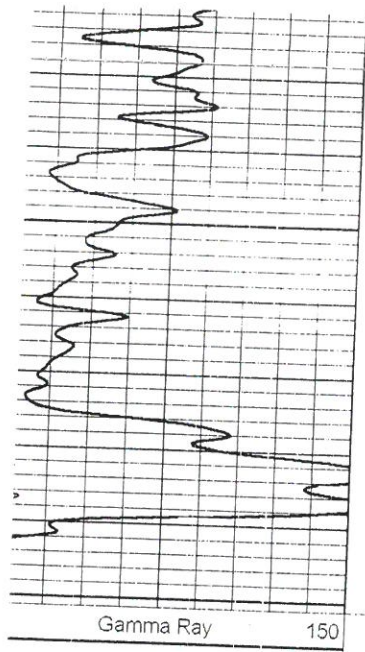






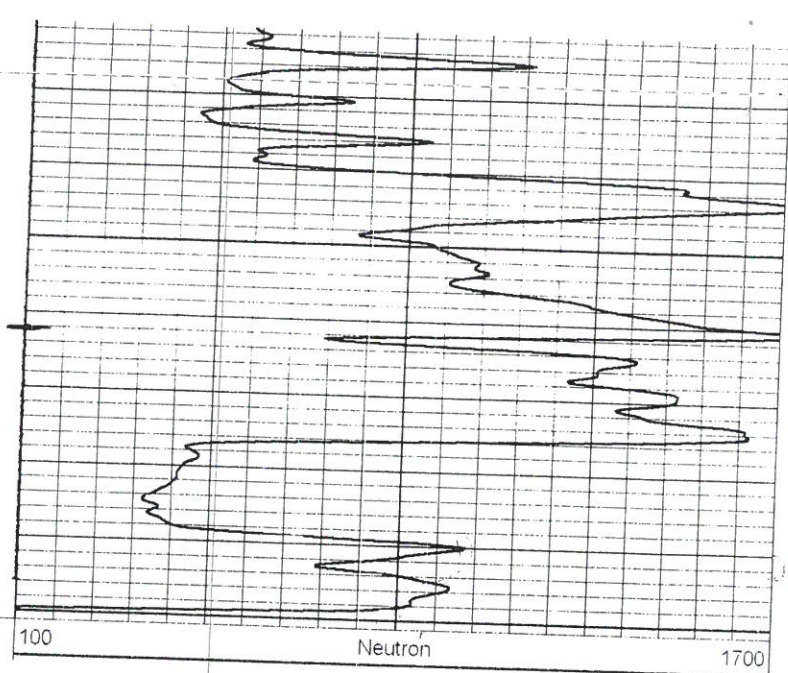






1300

1350



100



B+

**OIL AND GAS LEASE**



Recorder No.  
09-134

KANSAS BLUE PRINT CO. INC.  
310-254-9344 • P.O. Box 703 • Wichita, KS 67201-0703

AGREEMENT, Made and entered into this Twenty-sixth day of April 192005  
by and between Curtis M. Mueller and Alisha L. Mueller as Trustees of  
Alisha L. Mueller Revocable Trust dated February 14, 2001 and  
Edward E. Birk and Brian L. Birk Parties of the first part, hereinafter called lessor (whether one or more) and  
Mueller Revocable Trust dated February 14, 2001 Parties of the second part, hereinafter called lessee.

WITNESSETH, That the said lessor, for and in consideration of one dollar & other valuable consideration  
cash in hand paid, receipt of which is hereby acknowledged, and of the covenants and agreements hereinafter contained on the  
part of lessee to be paid, kept and performed, has granted, demised, leased and let and by these presents does grant, demise,  
lease and let unto said lessee, for the sole and only purpose of mining and operating for oil and gas, and laying pipe lines, and  
building tanks, power stations and structures thereon to produce, save and take care of said products, all that certain tract of  
land situated in the County of Allen State of Kansas, described as follows, to wit:  
The Southeast Quarter (SE4) of Section Seven (7), and from Southwest  
Quarter (SW4) of Section Eight (8), all in Township Twenty-six (26),  
Range Nineteen (19) East.

of Section 7 & 8 Township 26 Range 19E and containing 320 acres more or less.  
It is agreed that this lease shall remain in full force for a term of one years from this date, and as long  
thereafter as oil or gas, or either of them, is produced from said land by the lessee.

In consideration of the premises the said lessee covenants and agrees:  
1st. To deliver to the credit of lessor, free of cost, in the pipe line to which lessee may connect his wells, the equal one-  
eighth (1/8) part of all oil produced and saved from the leased premises.  
2nd. To pay lessor for gas from each well where gas only is found the equal one-eighth (1/8) of the gross proceeds at the  
prevailing market rate, (but, as to gas sold by lessee, in no event more than one-eighth (1/8) of the proceeds received by lessee  
from such sales), for all gas used off the premises, said payments to be made per division order  
and lessor to have gas free of cost from any such well for all stoves and all inside lights in the principal dwelling house on said  
land during the same time by making his own connections with the well at his own risk and expense.  
3rd. To pay lessor for gas produced from any oil well and used off the premises or in the manufacture of gasoline or any  
other product a royalty of one-eighth (1/8) of the market value, at the mouth of the well, (but, as to gas sold by lessee, in no  
event more than one-eighth (1/8) of the proceeds received by lessee from such sales), payable monthly at the prevailing market price.  
If no well be commenced on said land on or before the n/a day of n/a 19n/a  
this lease shall terminate as to both parties, unless the lessee on or before that date shall pay or tender to the lessor, or to the  
lessor's credit in The n/a Bank at n/a

or its successors, which shall continue as the depository regardless of changes in the ownership of said land, the sum of  
one thousand (\$1000.00) DOLLARS, which shall operate as a rental and cover the privilege of defer-  
ring the commencement of a well for twelve months from said date. In like manner and upon like payments or tenders  
the commencement of a well may be further deferred for like periods of the same number of months successively. All such  
payments or tenders of rentals may be made by check or draft of lessee or any assignee thereof, mailed or delivered on or be-  
fore the rental paying date, either direct to lessor or assigns or to said depository bank. And it is understood and agreed that  
the consideration first recited herein, the down payment, covers not only the privileges granted to the date when said first rent-  
al is payable as aforesaid, but also the lessee's option of extending that period as aforesaid, and any and all other rights con-  
ferred.

Should the first well drilled on the above described land be a dry hole, then, and in that event, if a second well is not com-  
menced on said land within twelve months from the expiration of the last rental period for which rental has been paid, this  
lease shall terminate as to both parties, unless the lessee on or before the expiration of said twelve months shall resume the  
payment of rentals in the same amount and in the same manner as hereinbefore provided. And it is agreed that upon the re-  
sumption of the payment of rentals, as above provided, that the last preceding paragraph hereof, governing the payment of  
rentals and the effect thereof, shall continue in force just as though there had been no interruption in the rental payments.

If said lessor owns a less interest in the above described land than the entire and undivided fee simple estate therein,  
then the royalties and rentals herein provided shall be paid the lessor only in the proportion which his interest bears to the  
whole and undivided fee.

Lessee shall have the right to use, free of cost, gas, oil, and water produced on said land for its operation thereon, except  
water from wells of lessor.

When requested by lessor, lessee shall bury his pipe lines below plow depth.

No well shall be drilled nearer than 200 feet to the house or barn now on said premises, without the written consent of  
the lessor.

Lessee shall pay for damages caused by its operations to growing crops on said land.

Lessee shall have the right at any time to remove all machinery and fixtures placed on said premises, including the right  
to draw and remove casing.

If the lessee shall commence to drill a well within the term of this lease or any extension thereof, the lessee shall have  
the right to drill such well to completion with reasonable diligence and dispatch, and if oil or gas, or either of them, be found  
in paying quantities, this lease shall continue and be in force with the like effect as if such well had been completed within the  
term of years herein first mentioned.

If the estate of either party hereto is assigned, and the privilege of assigning in whole or in part is expressly allowed,  
the covenants hereof shall extend to their heirs, executors, administrators, successors or assigns, but no change in the owner-  
ship of the land or assignment of rentals or royalties shall be binding on the lessee until after the lessee has been furnished  
with a written transfer or assignment of a true copy thereof, and it is hereby agreed in the event this lease shall be assigned  
as to a part or as to parts of the above described lands and the assignee or assignees of such part or parts shall fail or make  
default in the payment of the proportionate part of the rents due from him or them on an acreage basis, such default shall not  
operate to defeat or affect this lease in so far as it covers a part or parts of said lands upon which the said lessee or any as-  
signee thereof shall make due payments of said rentals. If the leased premises are now or hereafter owned in severalty or in  
separate tracts, the premises, nevertheless, may be developed and operated as an entirety, and the royalties shall be paid in  
each separate owner in the proportion that the acreage owned by him bears to the entire leased area. There shall be no obli-  
gation on the part of the lessee to offset wells on separate tracts into which the land covered by this lease may hereafter be  
divided by sale, devise, or otherwise, or to furnish separate measuring or receiving tanks for the oil produced from such sepa-  
rate tracts.

Lesser hereby warrants and agrees to defend the title to the lands herein described, and agrees that the lessee shall have  
the right at any time to redeem for lessor by payment, any mortgages, taxes or other liens on the above described lands, in the  
event of default of payment by lessor, and be subrogated to the rights of the holder thereof.

\*or as long as the minimum royalty of \$1000.00 per year is paid.

Whereof witness our hands as of the day and year first

above written.

Witness to the mark:

Curtis M. Mueller (SEAL)  
Curtis M. Mueller, Trustee (SEAL)  
SSN# [redacted] (SEAL)

Alisha L. Mueller (SEAL)  
Alisha L. Mueller, Trustee (SEAL)  
SSN# [redacted] (SEAL)

[redacted] (SEAL)

[redacted] (SEAL)

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[redacted] (SEAL)

[redacted] (SEAL)

[redacted] (SEAL)

[redacted] (SEAL)

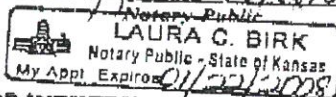


STATE OF Kansas

COUNTY OF Allen

The foregoing instrument was acknowledged before me this 27<sup>th</sup> day of May 2005  
by Curtis M. Mueller, Trustee of Curtis M. Mueller Trust and Alisha L. Mueller  
Trustee of Alisha L. Mueller Trust

My commission expires January 27, 2008



STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
by \_\_\_\_\_ and \_\_\_\_\_

My commission expires \_\_\_\_\_

Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
by \_\_\_\_\_ and \_\_\_\_\_

My commission expires \_\_\_\_\_

Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
by \_\_\_\_\_ and \_\_\_\_\_

My commission expires \_\_\_\_\_

Notary Public

No. \_\_\_\_\_

OIL AND GAS LEASE



TO \_\_\_\_\_

Date \_\_\_\_\_, 19\_\_\_\_

Section \_\_\_\_\_ Twp. \_\_\_\_\_ Rge. \_\_\_\_\_

No. of Acres \_\_\_\_\_

County \_\_\_\_\_

STATE OF KANSAS

County ALLEN

This instrument was filed for record on the 20<sup>TH</sup>

day of JUNE, 2005

at 9:40 o'clock A. M., and duly recorded

in Book A62 Page 181

the records of this office.

CARA BARRELL

By MICHELLE M. SMITH Register of Deeds.

FEE: 412.00

When recorded, return to \_\_\_\_\_

182

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
by \_\_\_\_\_ of \_\_\_\_\_

corporation, on behalf of the corporation.

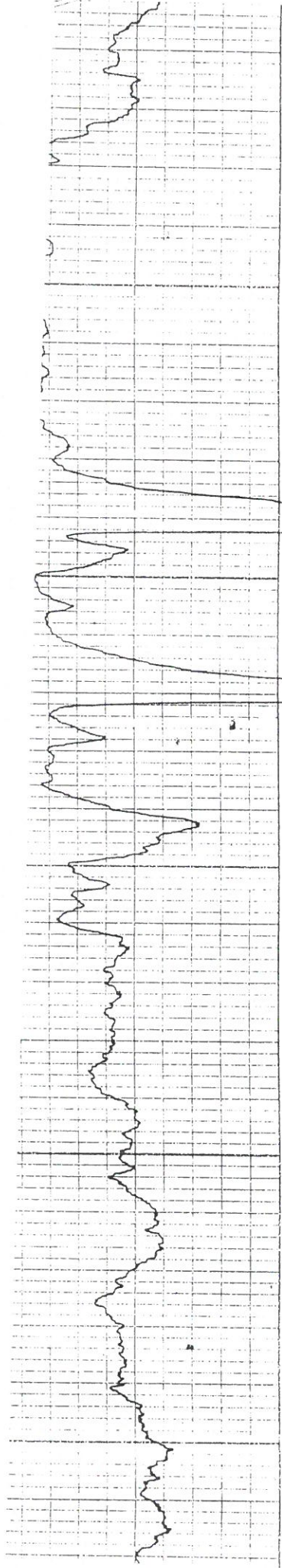
My commission expires \_\_\_\_\_

Notary Public









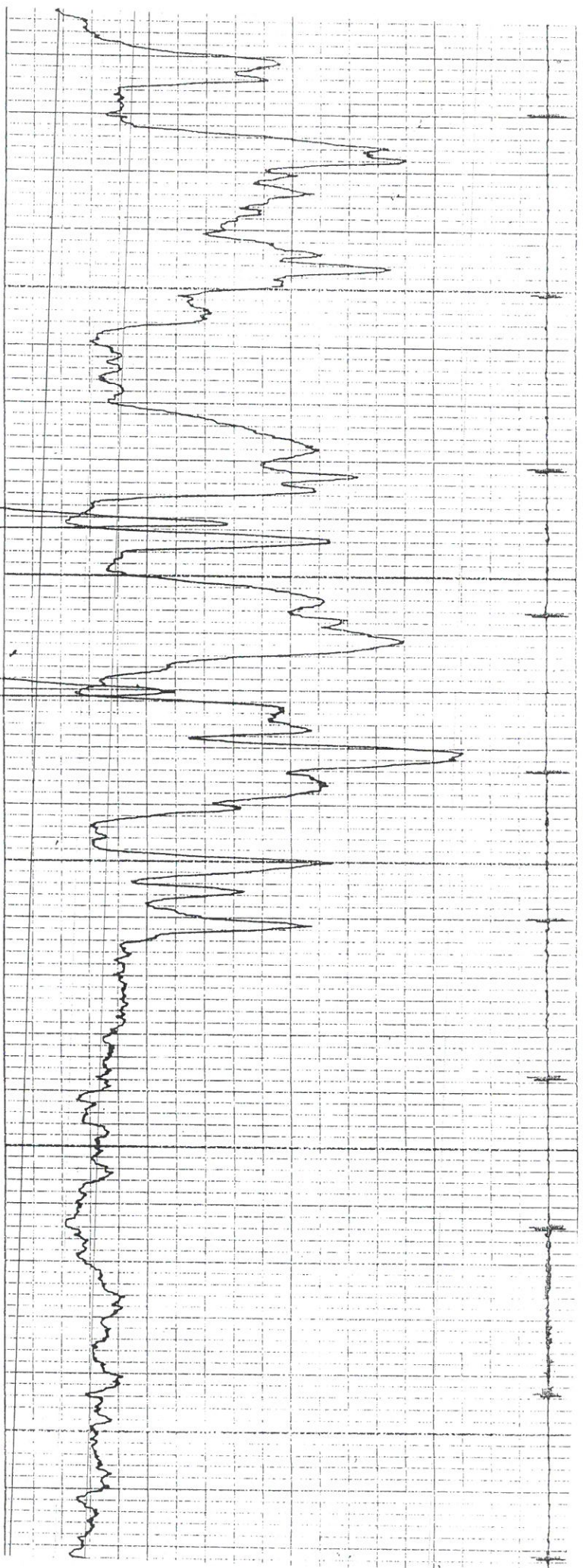
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200

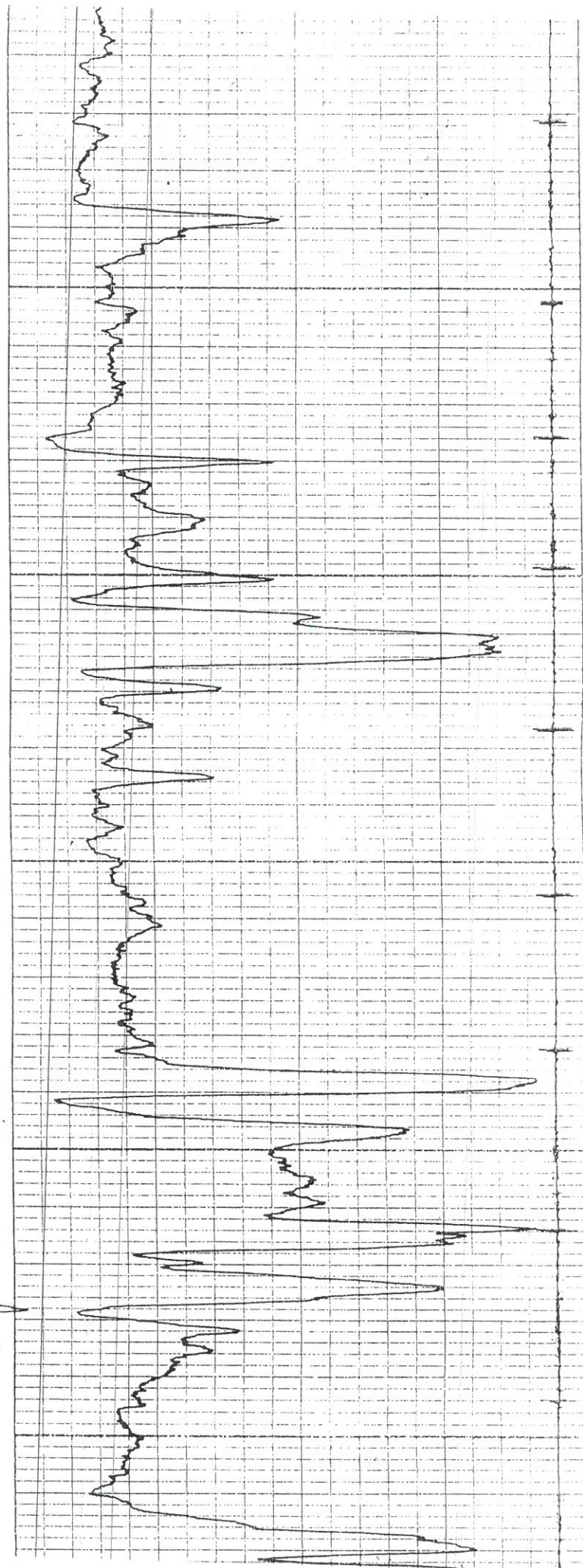
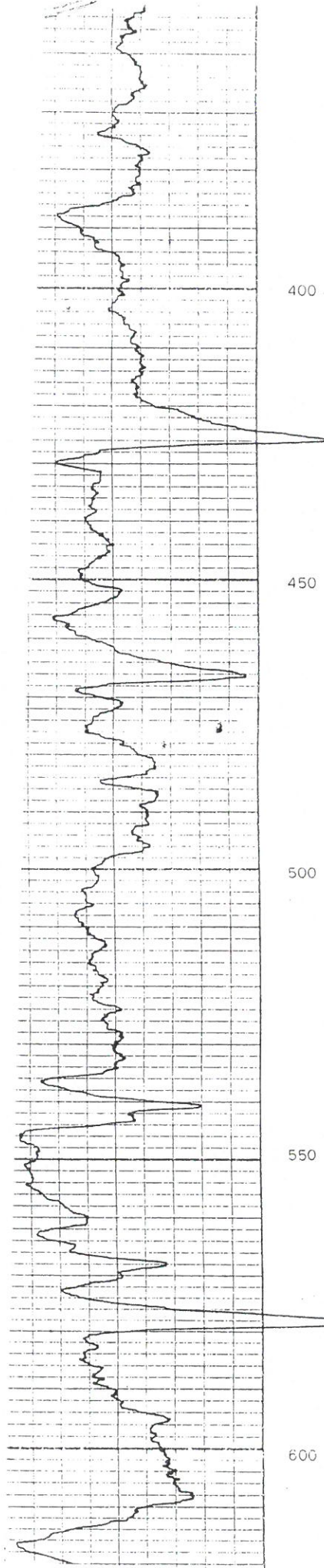
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300

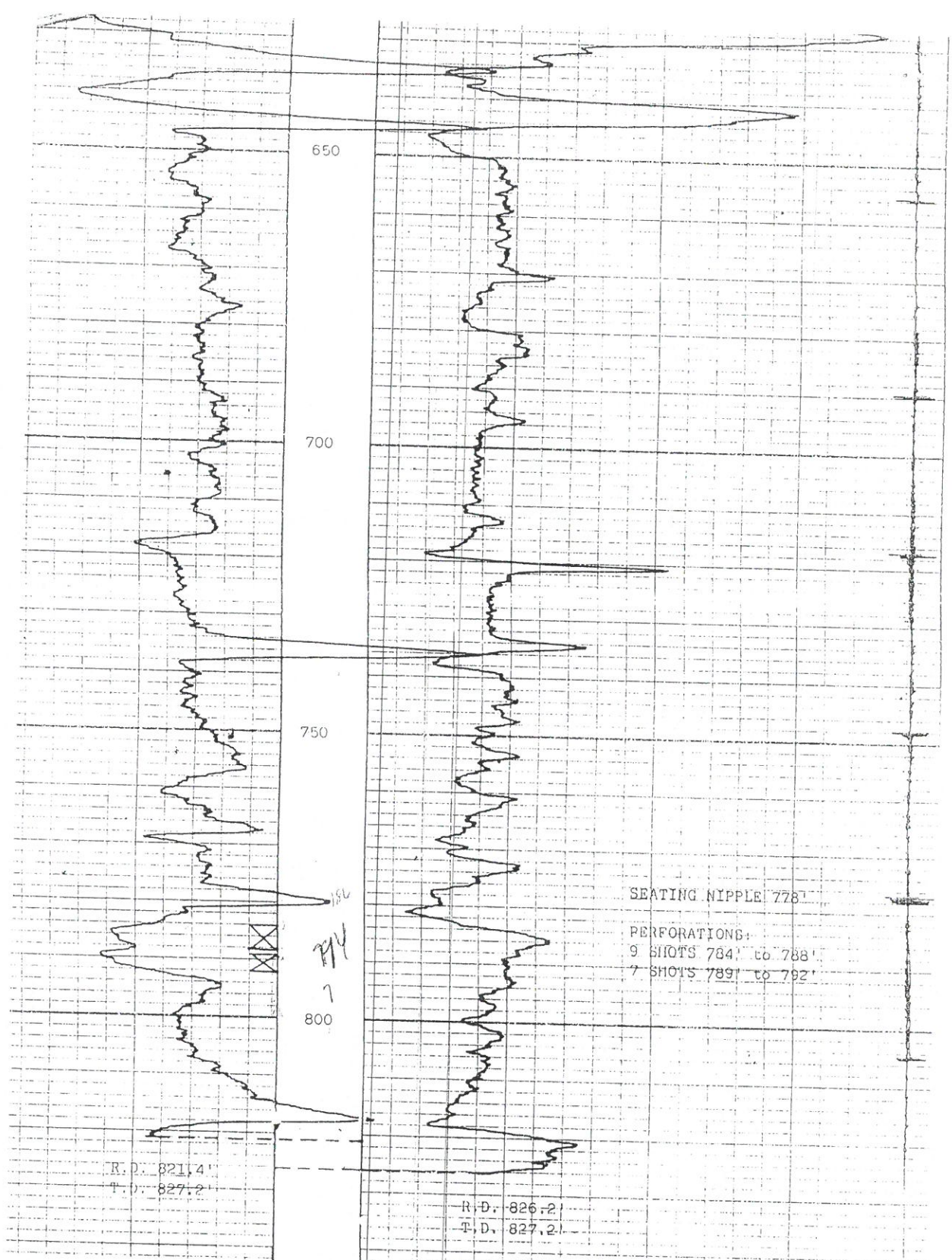
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LOGSHEET NO. 104

BIG SKY OIL & GAS

ALLEN COUNTY, KANSAS

SEPTEMBER 28, 1982



# CORNISH

PHONE 431-9308 WIRELINE SERVICES, INC. CHANUTE, KANSAS  
P.O. DRAWER H

## RADIOACTIVITY LOG

FILING NO.		COMPANY		BIG SKY OIL AND GAS	
WELL		COUNTY		ALLEN	
FIELD		STATE		KANSAS	
LOCATION		OTHER SERVICES			
SEC. 8		TWP. 26S		RGE. 19E	
PERMANENT DATUM		G.L.		ELEV. 3	
LOG MEASURED FROM		G.L.		FT. ABOVE PERM. DATUM	
CAPPING MEASURED FROM		G.L.		ELEV. 3	
DATE	9-28-82	9-28-82	9-28-82		
RUN NO.	1 NW	1 NW	1 NW		
TYPE LOG	GAMMA RAY	NEUTRON	PERFORATE		
DEPTH - DRILLER	826.3'	826.3'			
DEPTH - LOGGER	820.5'	825.3'			
BOTTOM LOGGED INTERVAL	2'	7'			
TOP LOGGED INTERVAL					
TYPE FLUID IN HOLE	WATER	WATER	WATER		
SALINITY PPM CL					
DENSITY					
LEVEL	FULL	FULL	FULL		
MAX. REC. TEMP. DEGF					
OPERATING TIME	UDEN, D.	UDEN, D.	UDEN, D.		
RECORDED BY	MEYER, H.	MEYER, H.	MEYER, H.		
WITNESSED BY					
BORE HOLE RECORD		CASING RECORD			
SIZE	2 1/2"	WGT	0	T.D.	

THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
MODEL NO.	1 NW	MODEL NO.	1 NW
DETECTOR NO.	9205	DETECTOR NO.	NEU/NEU
DIAMETER	1-11/16"	DIAMETER	9205
DETECTOR MODEL NO.	95SC	DETECTOR MODEL NO.	1-11/16"
TYPE	SCINT.	TYPE	95HE
LENGTH	1"x4"	LENGTH	He <sup>3</sup>
STANCE TO N. SOURCE	8.5'	STANCE TO N. SOURCE	1"x6"
GENERAL		SCINT. MODEL NO.	
TEST TRUCK NO.	104	SERIAL NO.	AC
STRAWEST TRUCK NO.	104	SPACING	MRC415
STRAWEST NO.	10	TYPE	13"
		STRENGTH	Am/Be
			6.7x10 <sup>6</sup>
LOGGING DATA			
GAMMA RAY		NEUTRON	
DEPTH	SPEED	DEPTH	SPEED
FROM	FT. MIN.	FROM	FT. MIN.
TO	SEC	TO	SEC
825.3'	25	2'	2.5
	2.5		10-0
	10-0		2L
	20		2.0
	0-35		4L

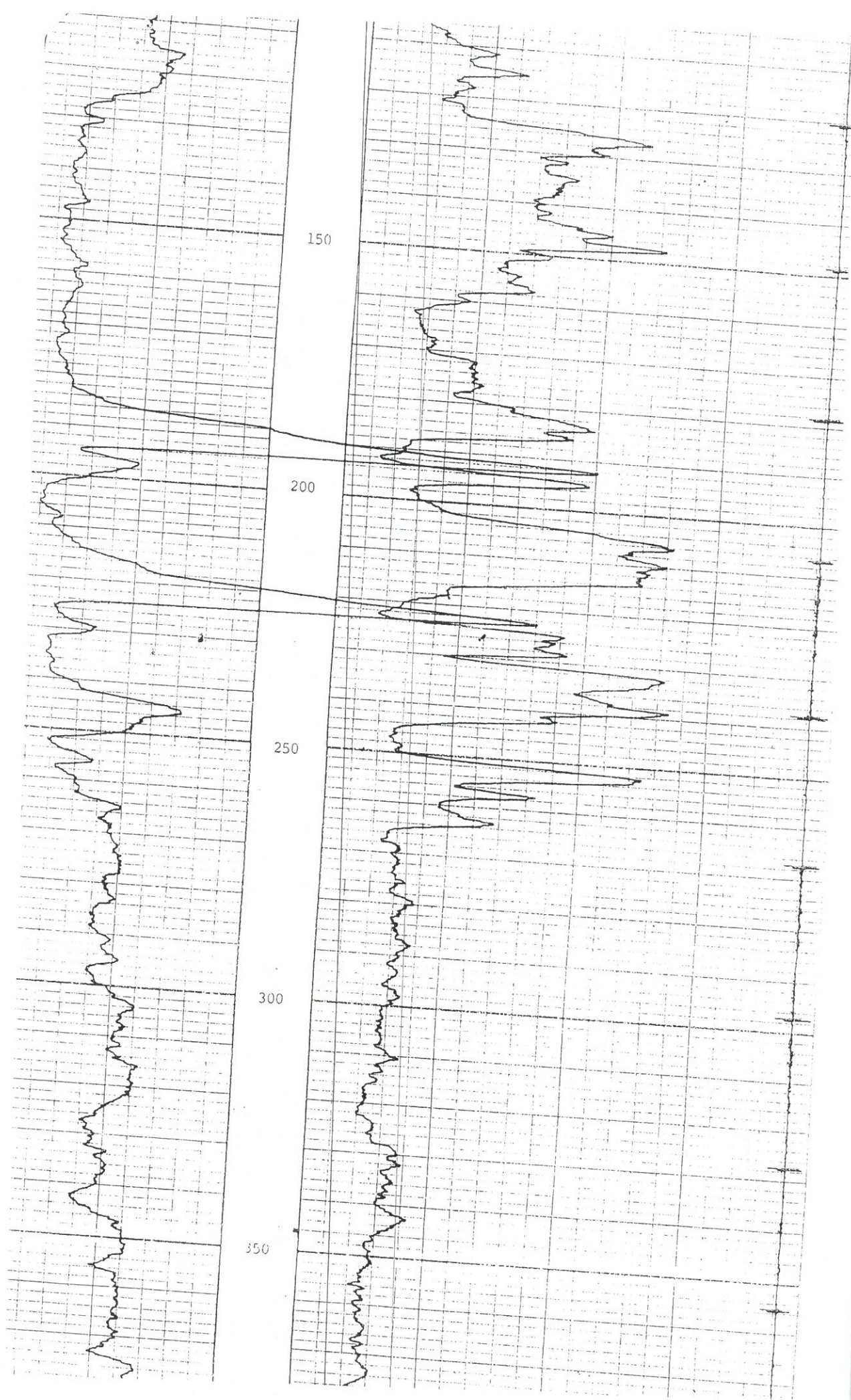
REFERENCE LITERATURE

REMARKS

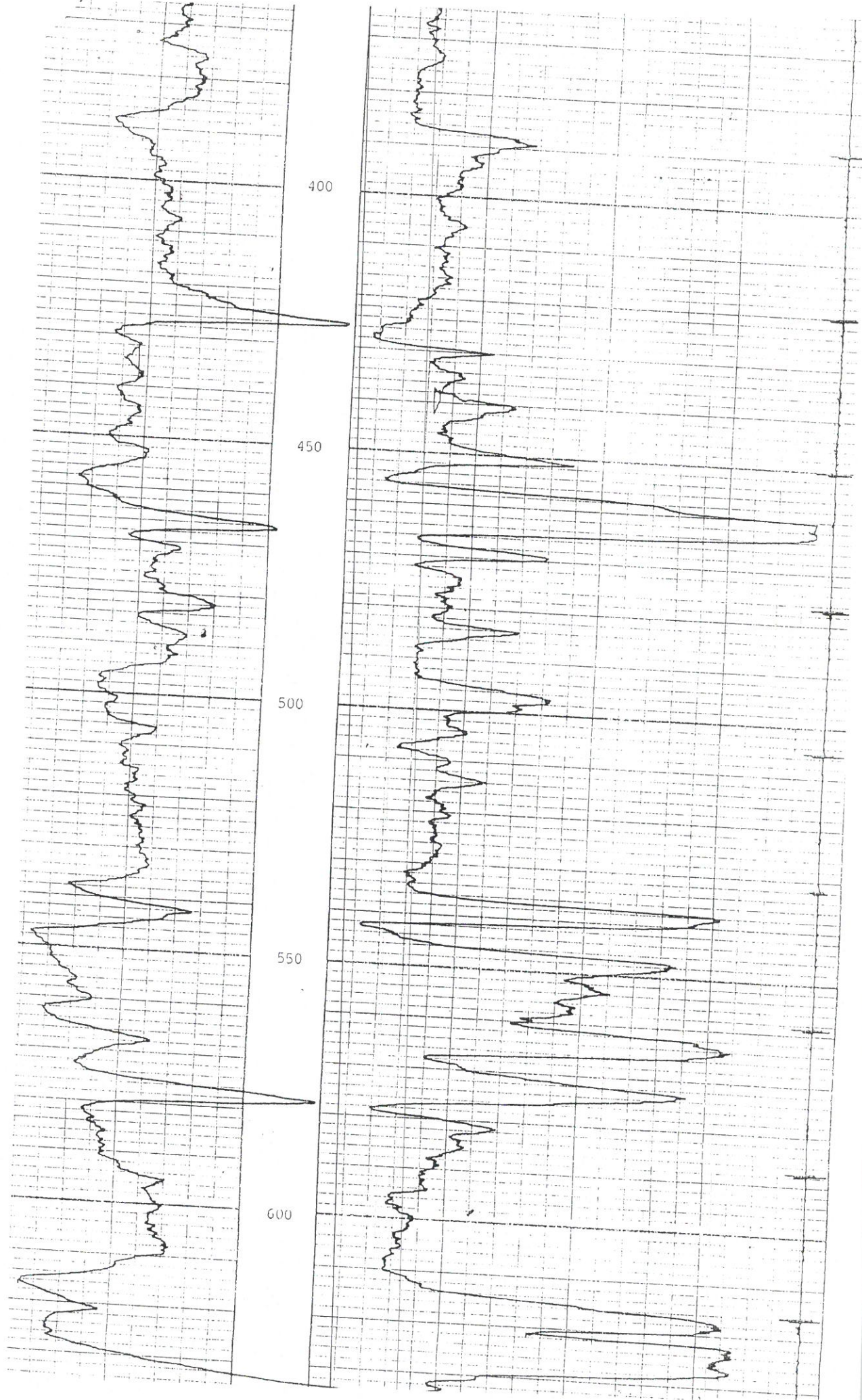
GAMMA RAY  
API UNITS  
DEPTH AND CASING COLLARS

NEUTRON  
API UNITS

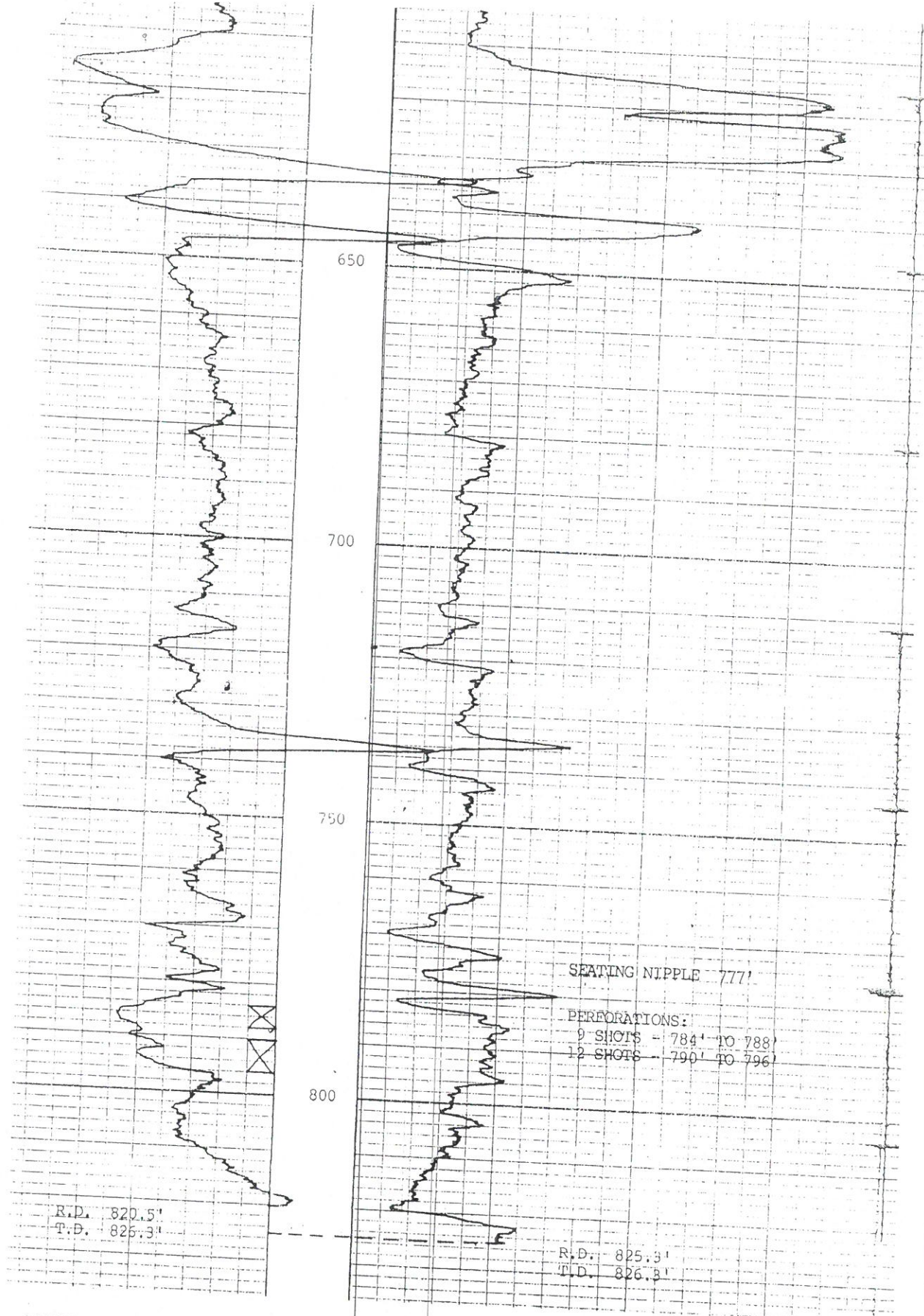












SEATING NIPPLE 777'

PERFORATIONS:

9 SHOTS - 784' TO 788'

12 SHOTS - 790' TO 796'

R.D. 820.5'  
T.D. 825.3'

R.D. 825.3'  
T.D. 826.3'

LASSMAN NO. 106

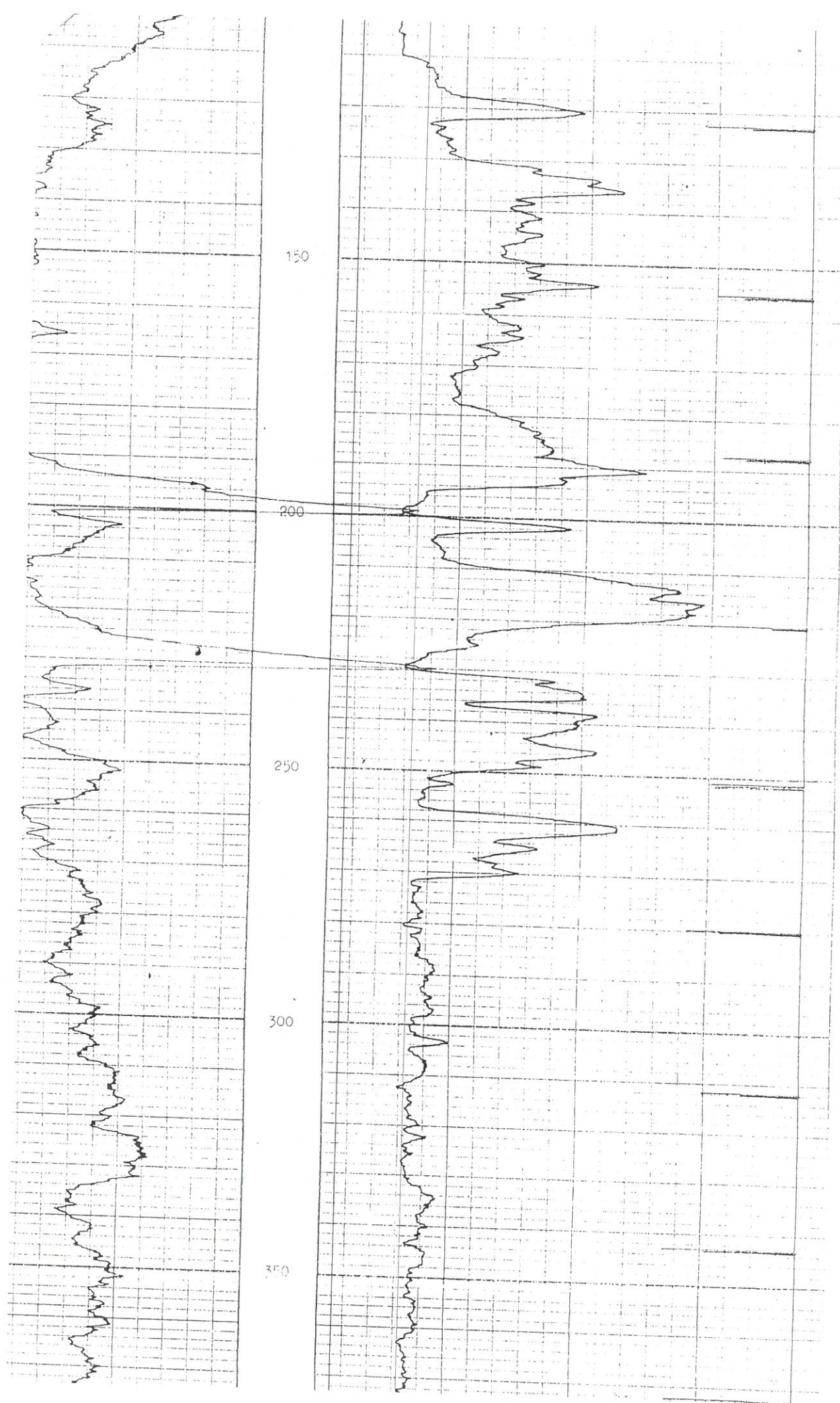
BIG SKY OIL AND GAS



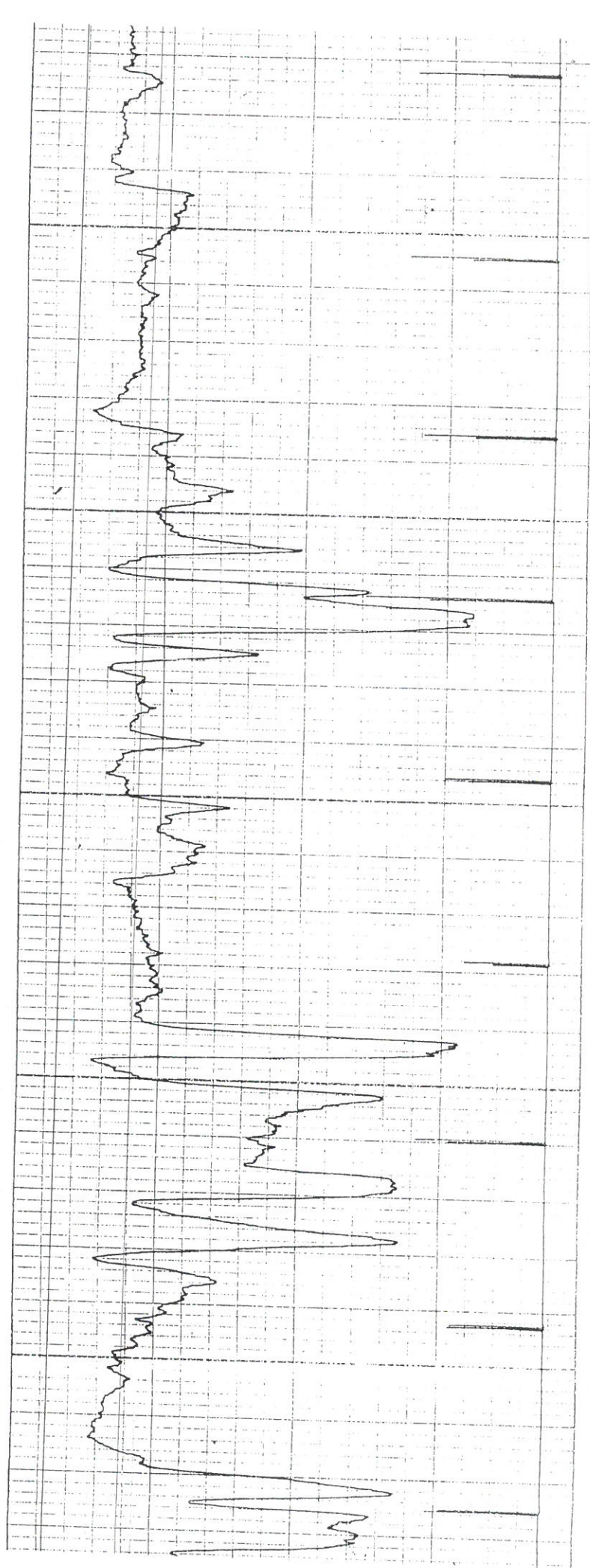
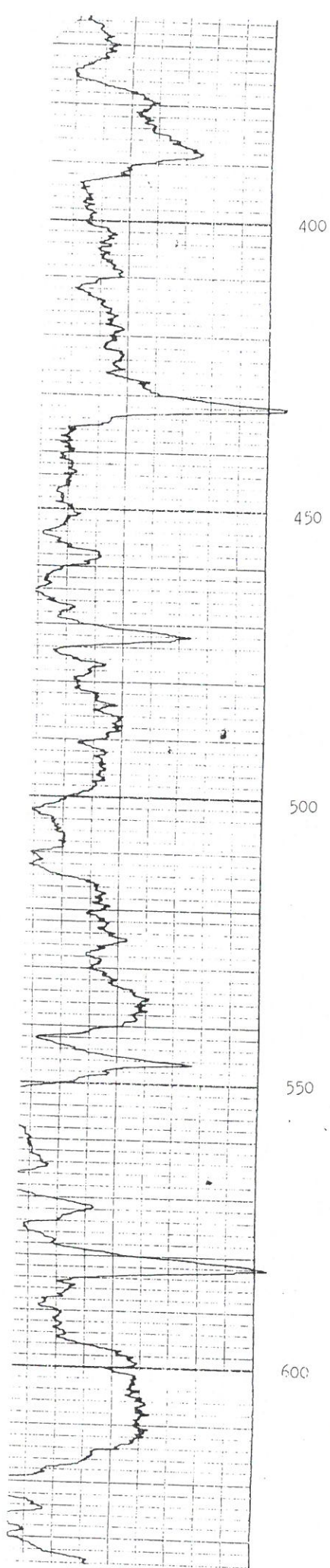
API UNITS

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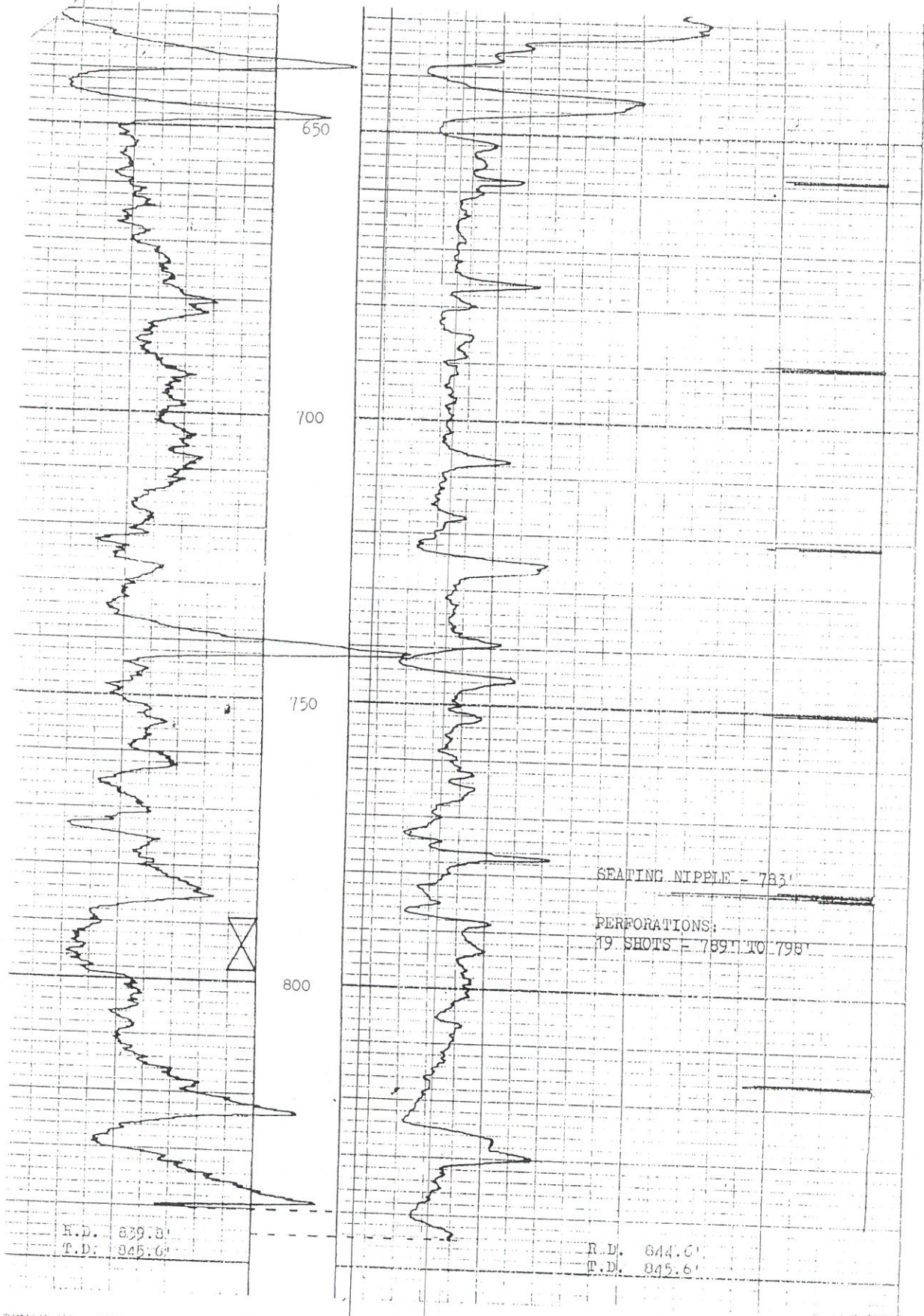












SSMAN NO. 108

G SKY OIL AND GAS

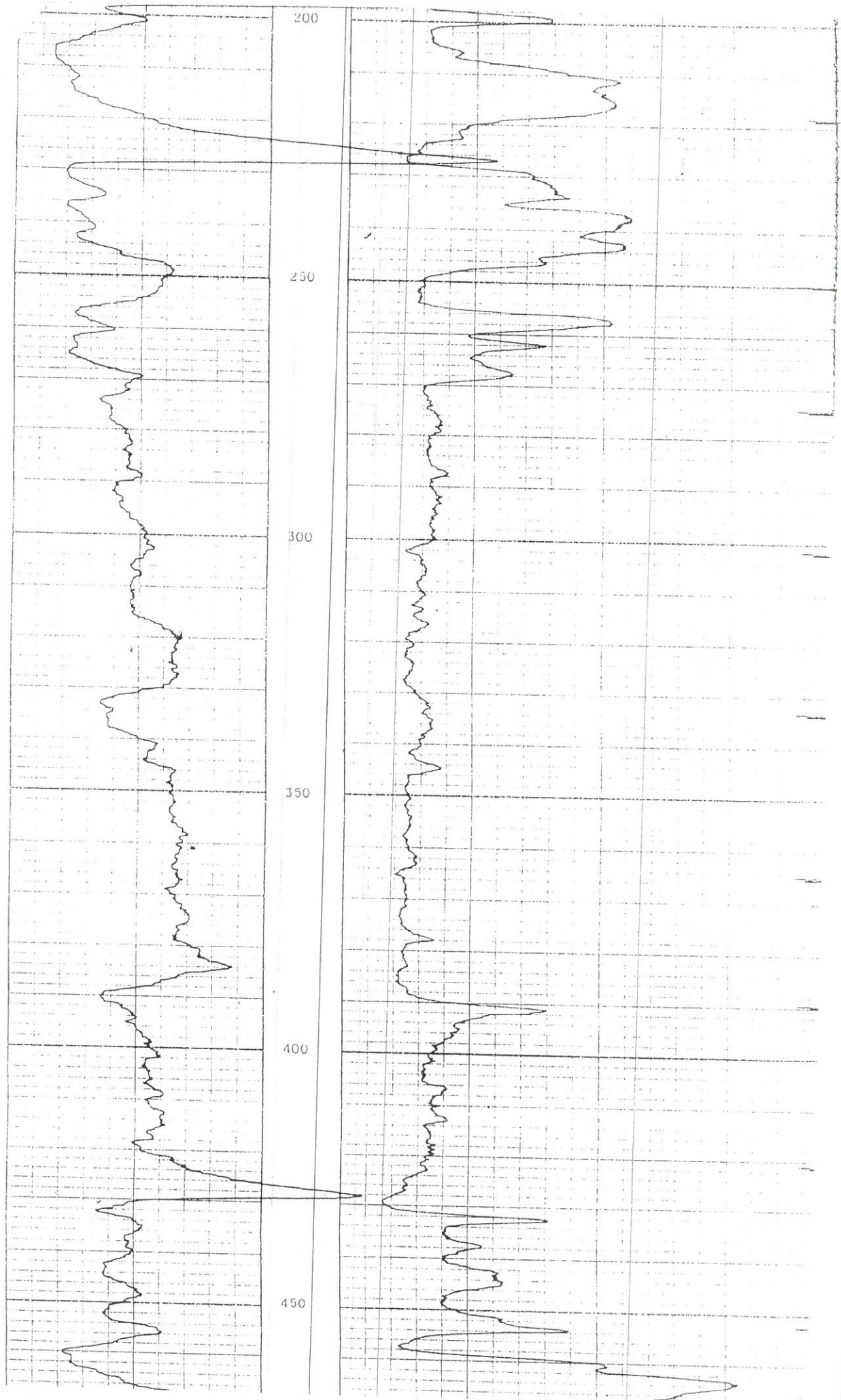
LEN COUNTY, KANSAS

VENBER 2, 1982

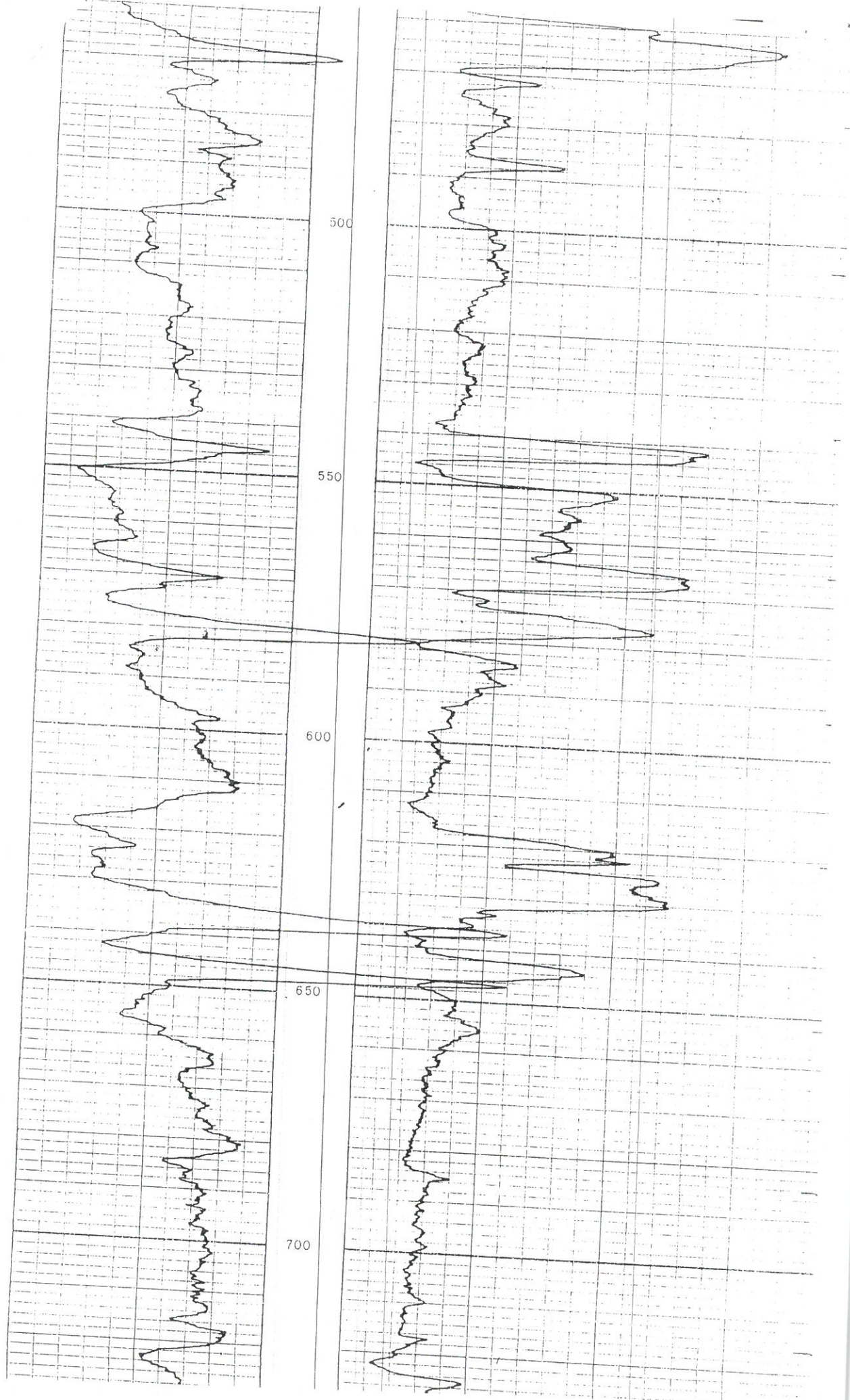




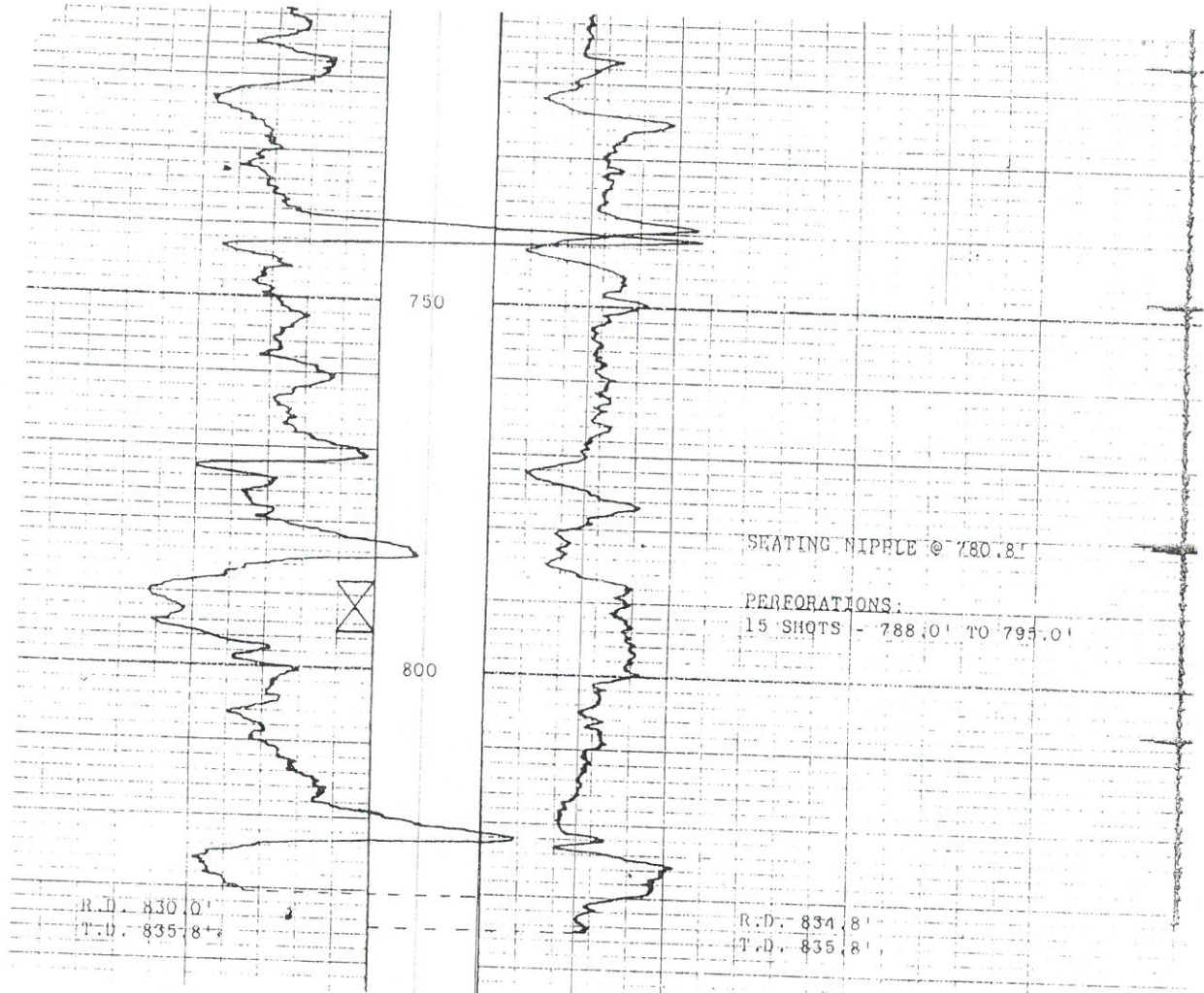












LASSMAN NO. 2

BIG SKY OIL AND GAS

WILLIAM C. RANSLEY



[illegible]

2 INCH LOG, CONDUCTIVITY LASSMAN #122 04/30/08

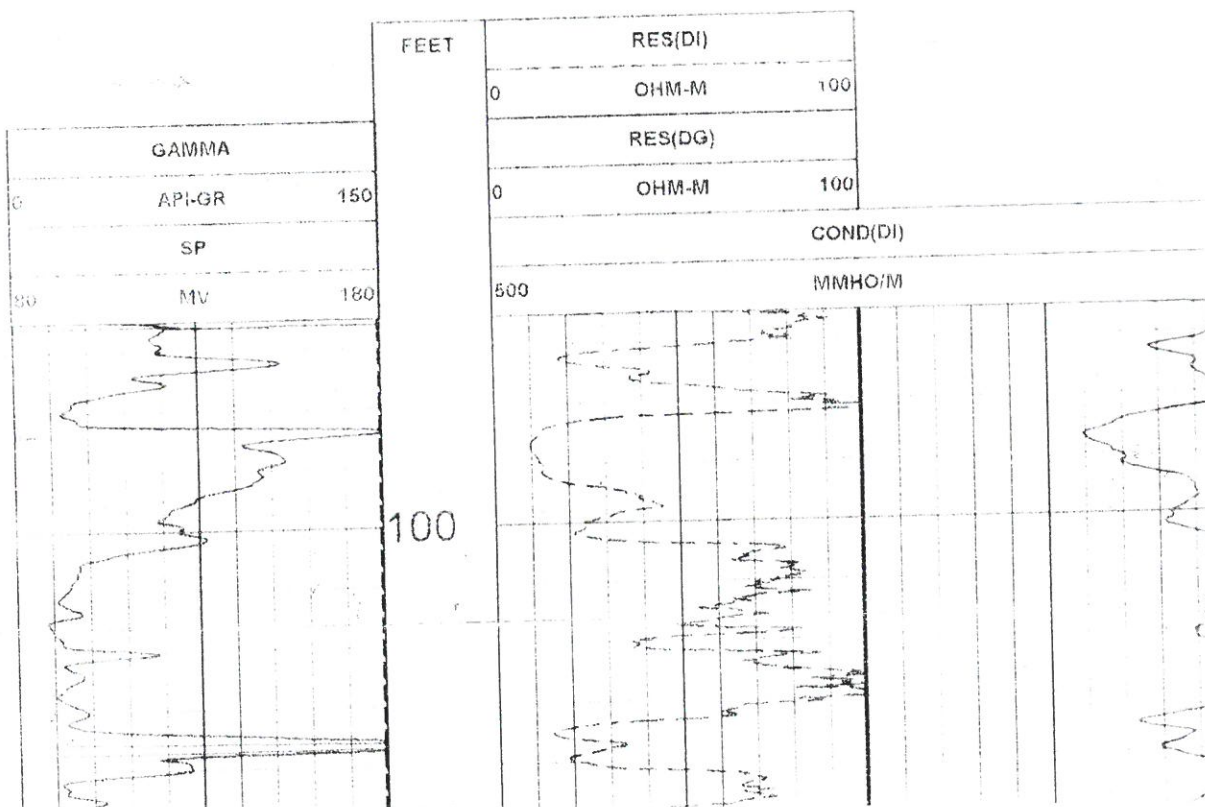
## LOG PARAMETERS

REGIONS: MATRICES: LINEAR: 200

REFERENCES

ELECT. CUTOFF 377

PRESENTATION NAME DATE # 15-5 CHANUTE DR COND 20 01001007





0	SP	100	000	MMHO/M	0
0	API-GR	150	0	COND(DI)	
	GAMMA		0	OHM-M	100
				RES(DG)	
			0	OHM-M	100
				RES(DI)	
	FEET				

## 2 INCH LOG, CONDUCTIVITY LASSMAN #122 04/30/08

### LOG PARAMETERS

MATRIX DENSITY 2.71  
MAGNETIC DECL 0  
PRESENTATION NAME/DATE

NEUTRON MATRIX LIMESTONE  
ELECT CUTOFF 3.77  
CWS CHANUTE DIL COND 2.0 07/20/2007

MATRIX DELTA T 49  
BIT SIZE 6.75  
VERSION 3.64F1

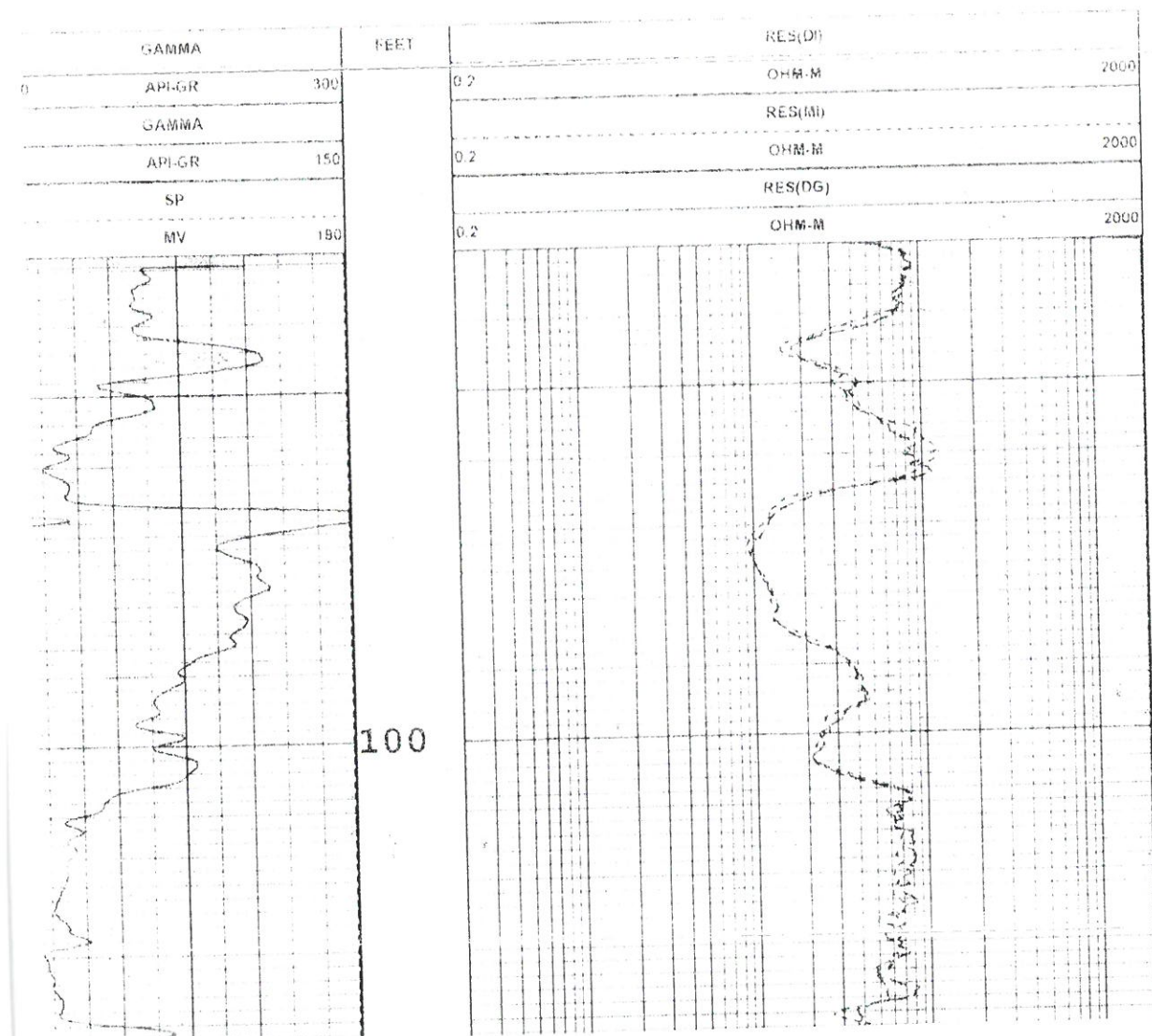
## 5 INCH LOG, DUAL INDUCTION LASSMAN #122 04/30/08

### LOG PARAMETERS

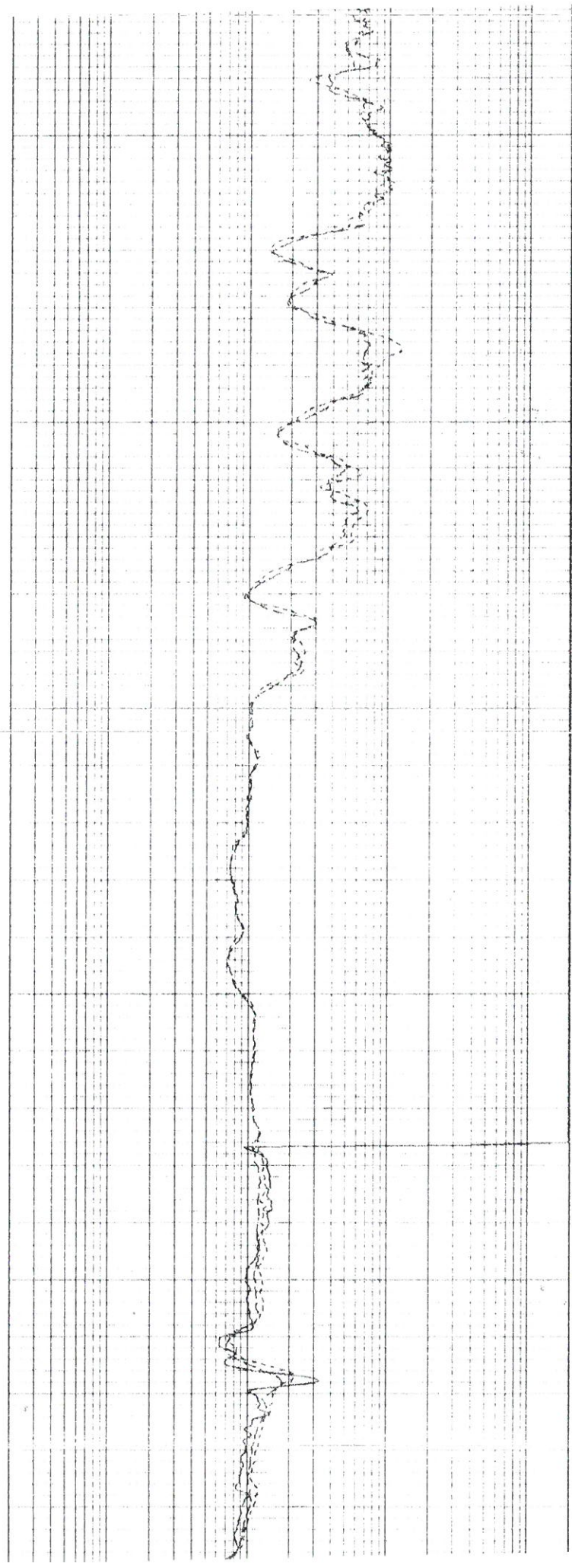
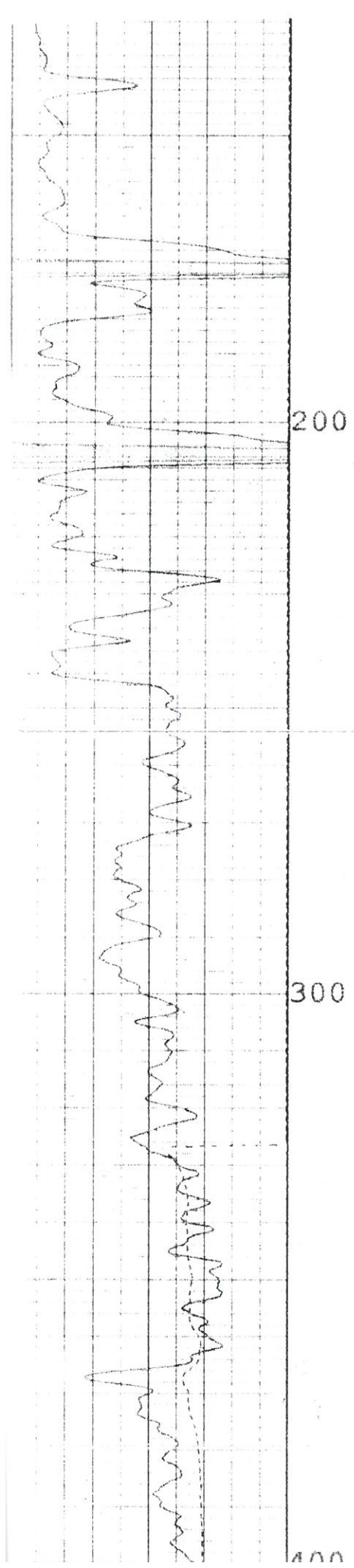
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MAGNETIC DECL 0  
PRESENTATION NAME/DATE

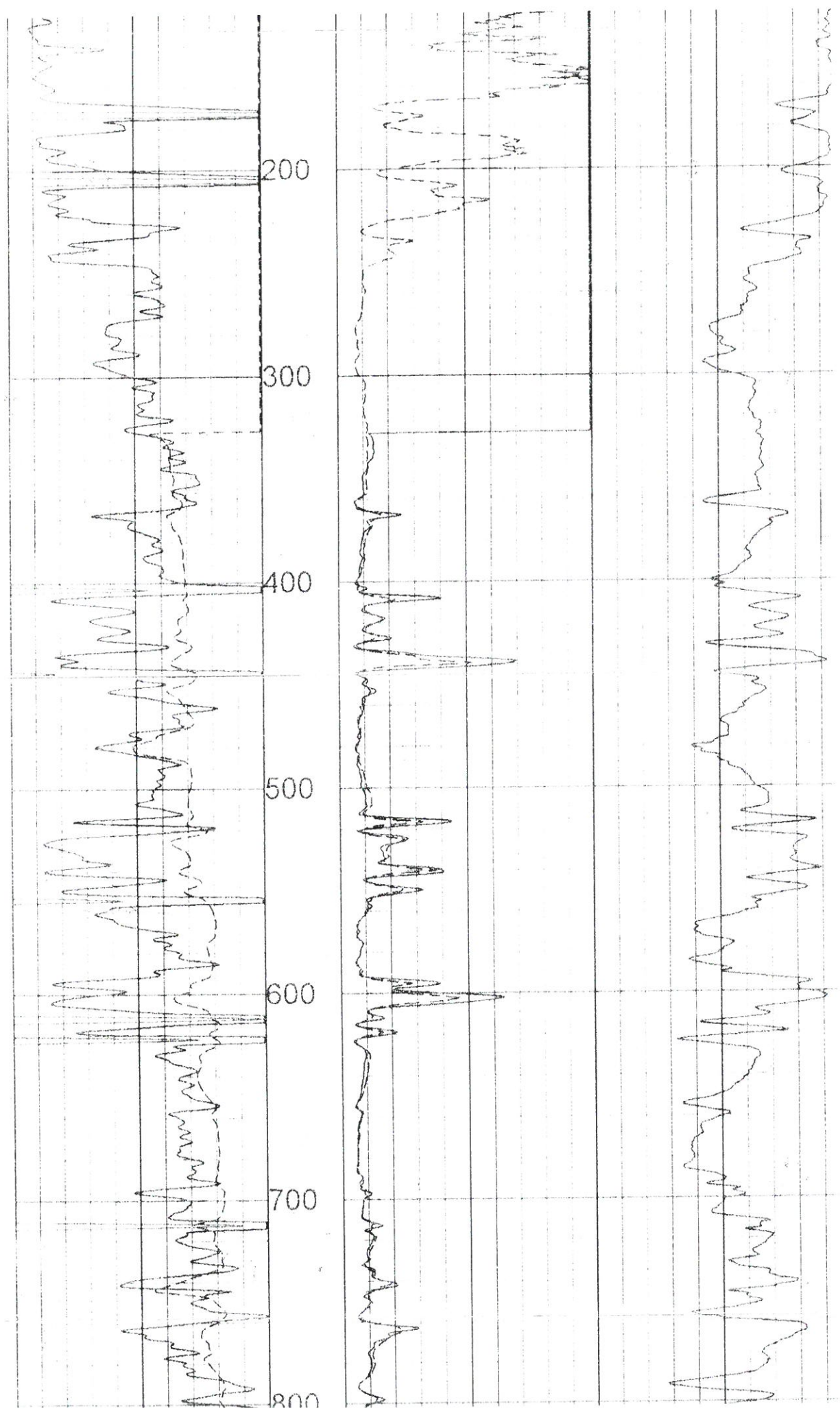
NEUTRON MATRIX LIMESTONE  
ELECT CUTOFF 3.77  
CWS CHANUTE DIL 5.0 06/28/2006

MATRIX DELTA T 49  
BIT SIZE 6.75  
VERSION 3.64F1







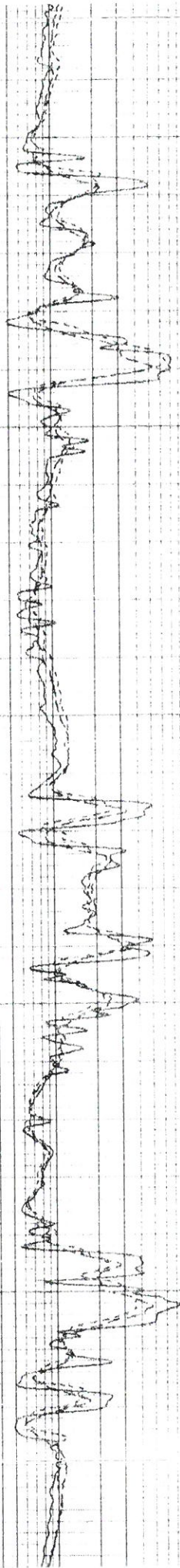
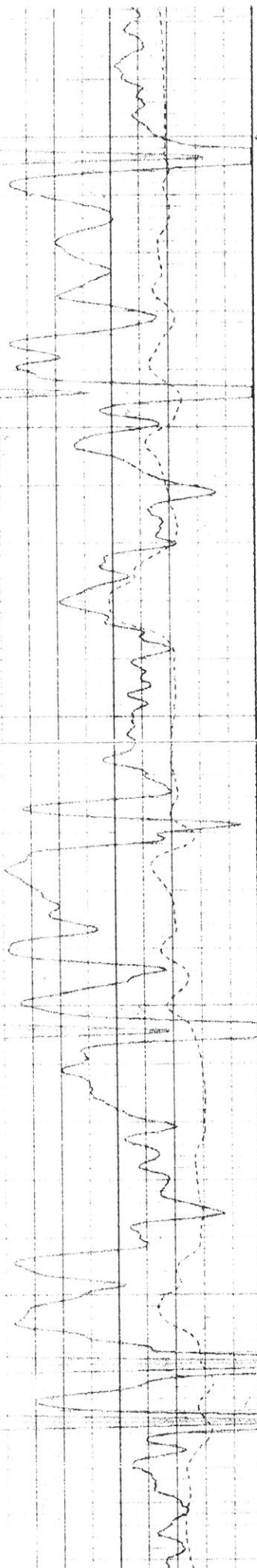




400

500

600



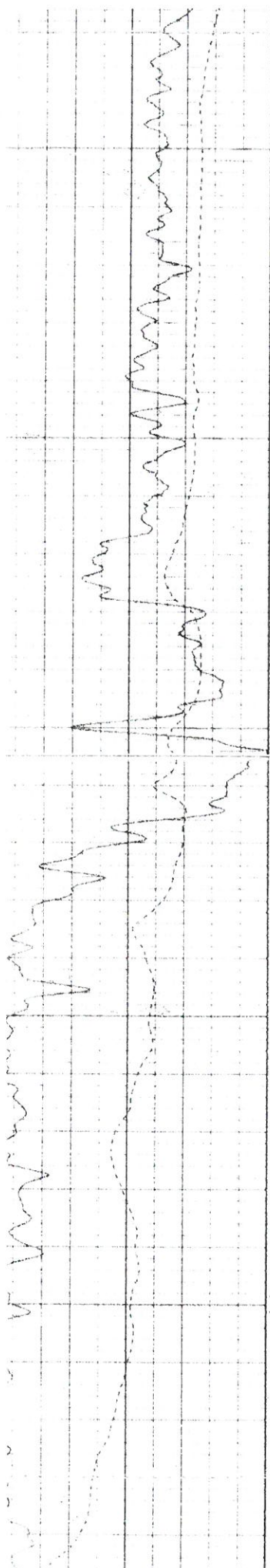


700

800



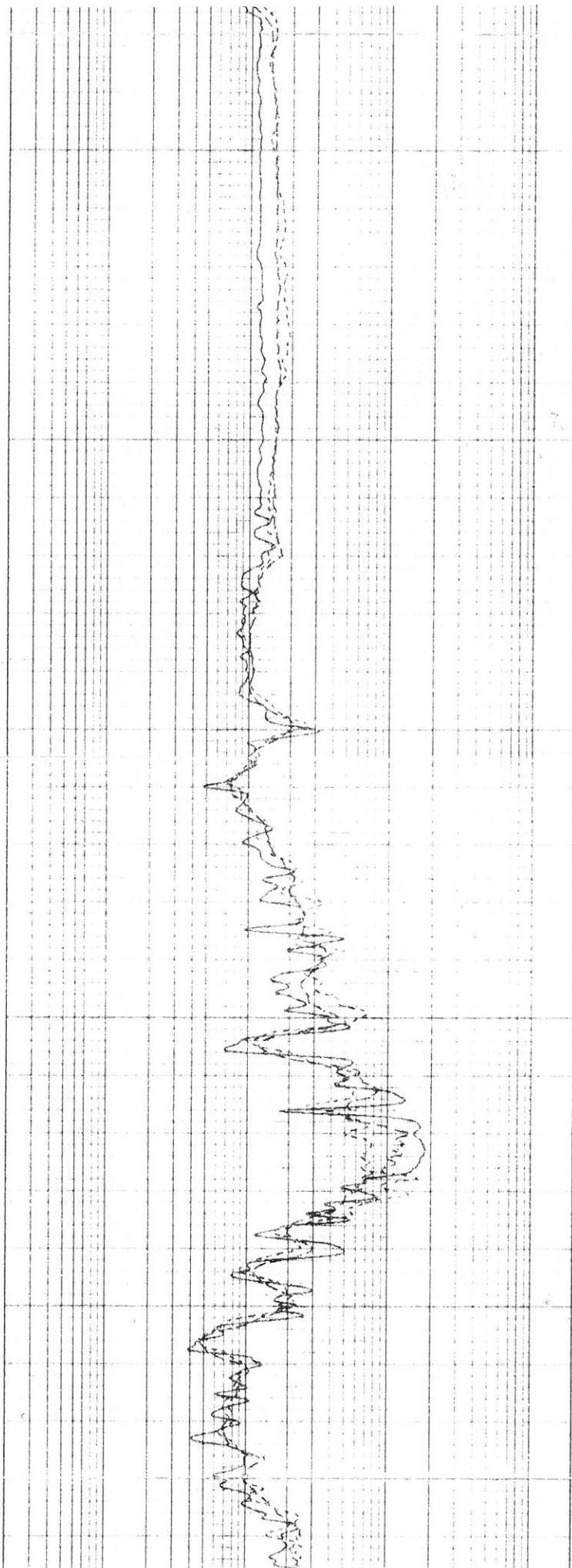




900

1000

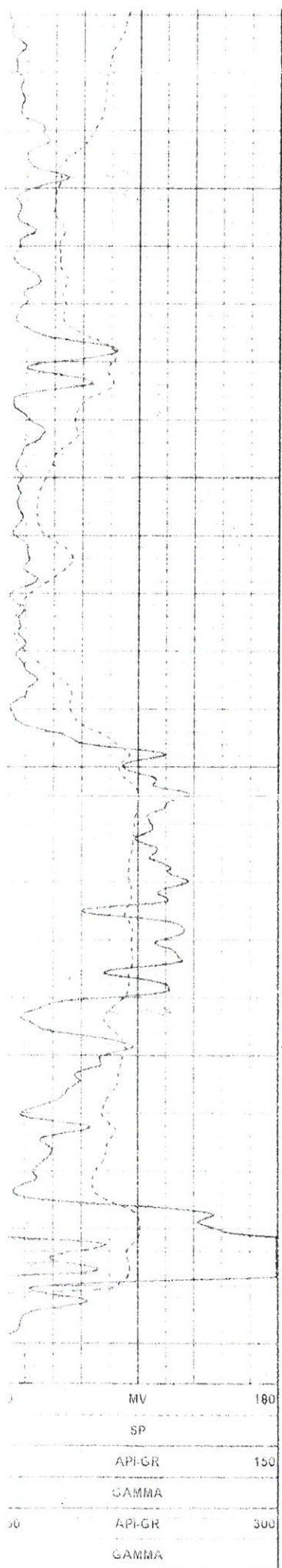
1100



900

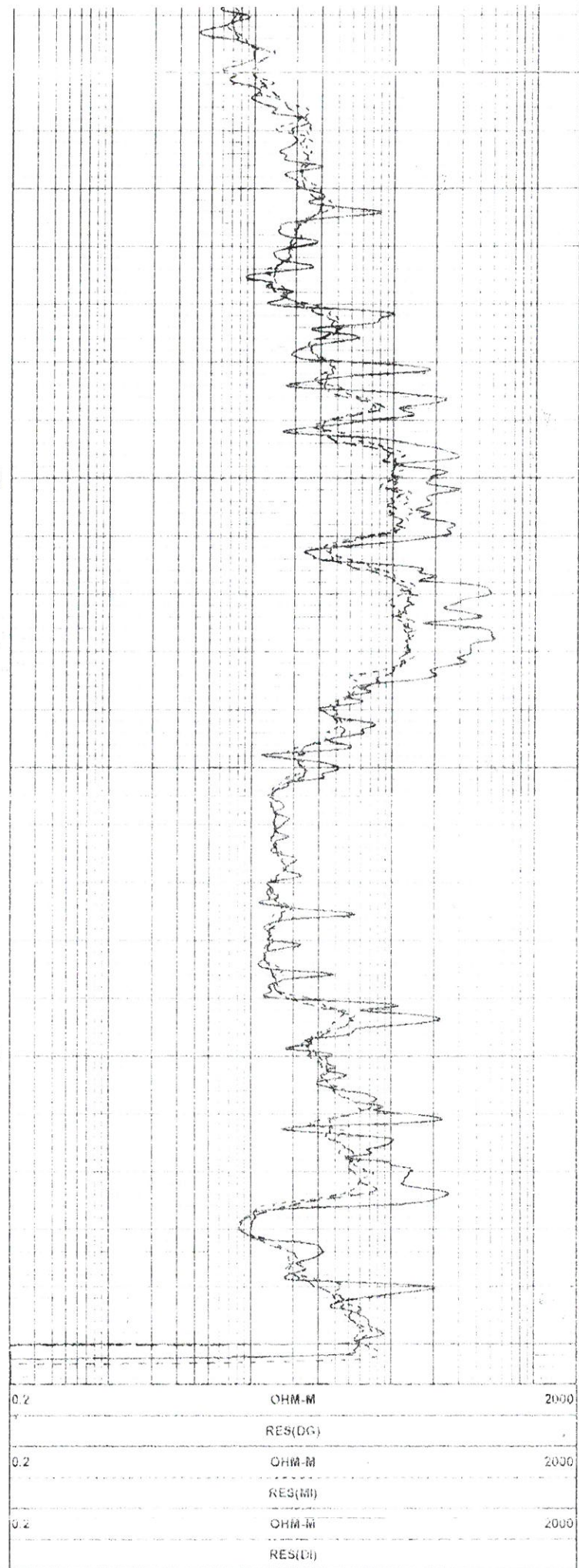
1000

1100



1200

1300



MV	180
SP	
API-GR	150
GAMMA	
API-GR	300
GAMMA	

0.2	OHM-M	2000
	RES(DG)	
0.2	OHM-M	2000
	RES(MI)	
0.2	OHM-M	2000
	RES(DI)	



DT		RES(DG)		
API-GR	150	0.2	OHM-M	2000
GAMMA			RES(MR)	
API-GR	300	0.2	OHM-M	2000
GAMMA			RES(MR)	

FEET

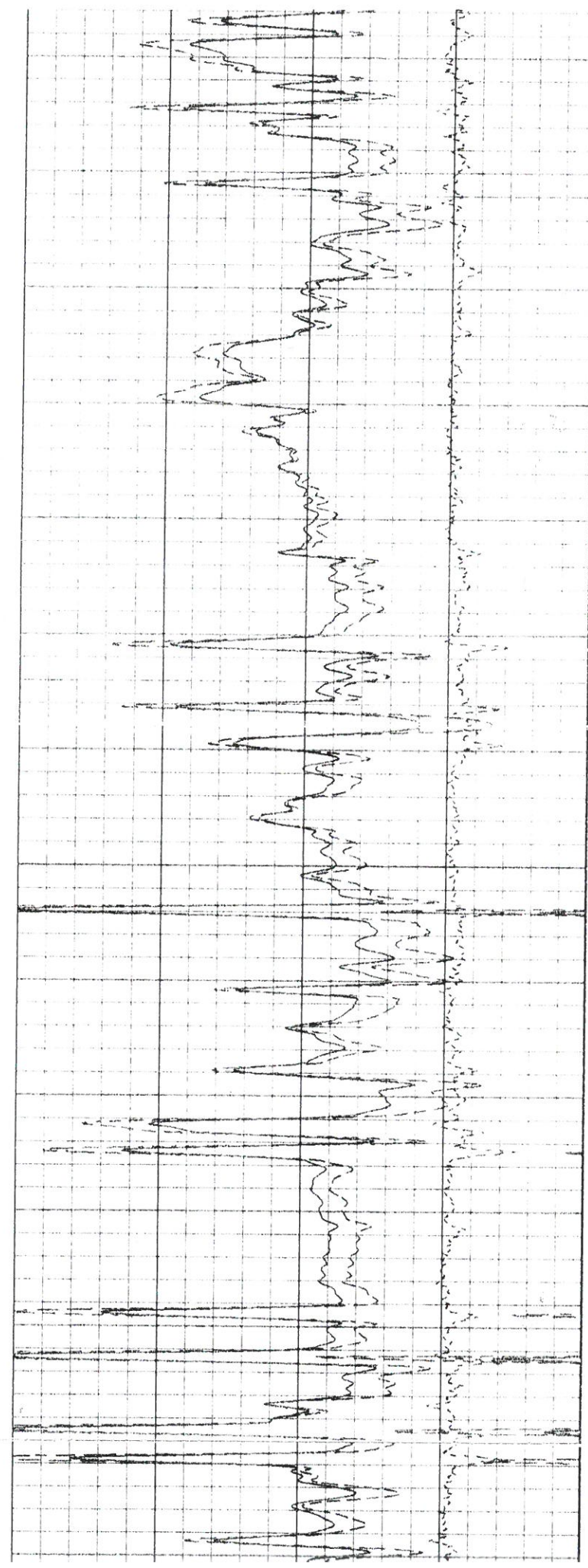
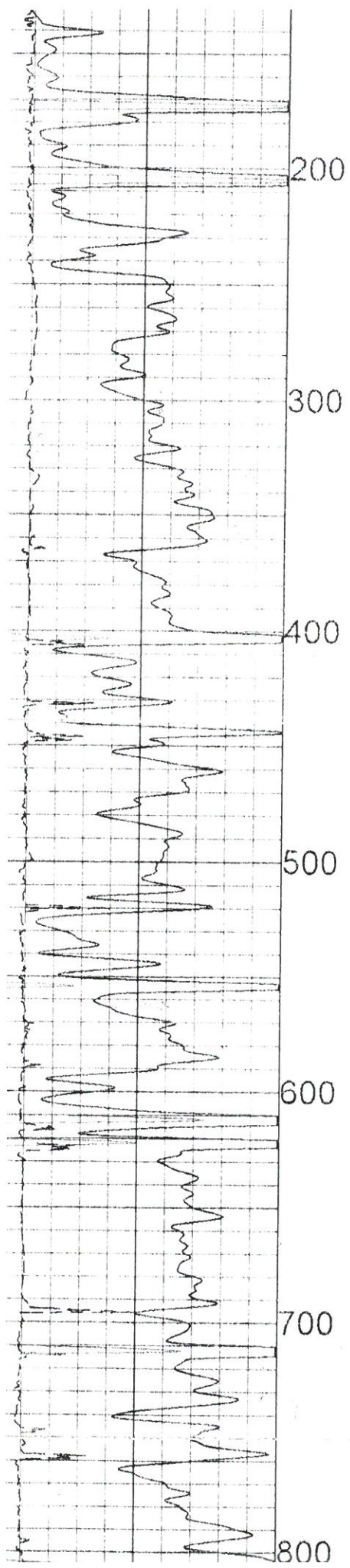
5 INCH LOG, DUAL INDUCTION LASSMAN #122 04/30/08

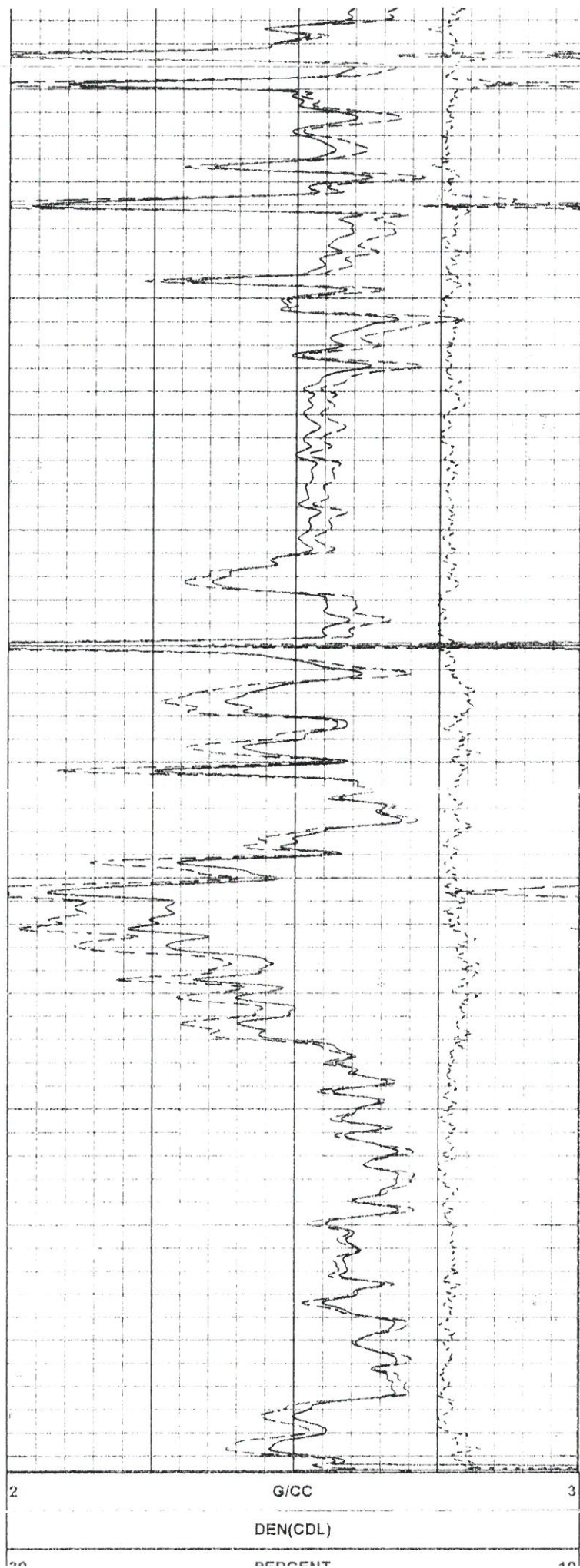
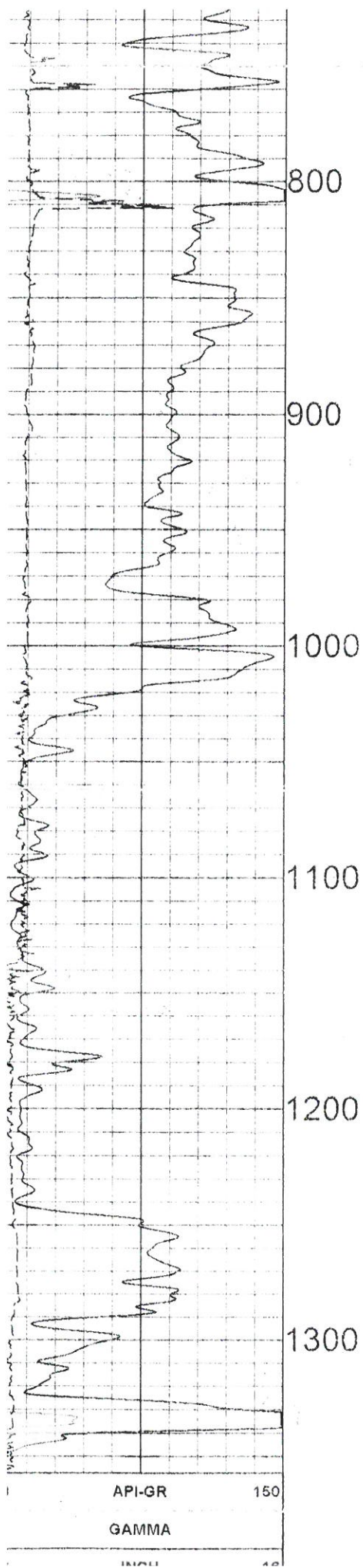
LOG PARAMETERS

MATRIX DENSITY 2.71	NEUTRON MATRIX LIMESTONE	MATRIX DELTA T -49
MAGNETIC DECI 0	ELCUT CUTOFF 2777	BIT SIZE 6 7/8
PRESSENTATION NAME/DATE	LOGS GRANITE DIL 5.0 06/26/2006	VERSION = 3.64E1











API-GR	150
GAMMA	
INCH	16
CALIPERL	
FEET	

2	G/CC	3
	DEN(CDL)	
30	PERCENT	-10
	POR(DEN)	
	-0.25 G/CC 0.25	
	COMP	

2 INCH LOG, DENSITY LASSMAN #122 04/30/08

### LOG PARAMETERS

MATRIX DENSITY: 2.71 NEUTRON MATRIX: LIMESTONE MATRIX DELTA T: 49  
 MAGNETIC DECL: 0 ELECT CUTOFF: 3777 BIT SIZE: 6.75  
 PRESENTATION NAME/DATE: CWS CHANUTE NDL INTRO 2.0 02/09/2006 VERSION: 3.64F1

5 INCH LOG, POROSITIES LASSMAN #122 04/30/08

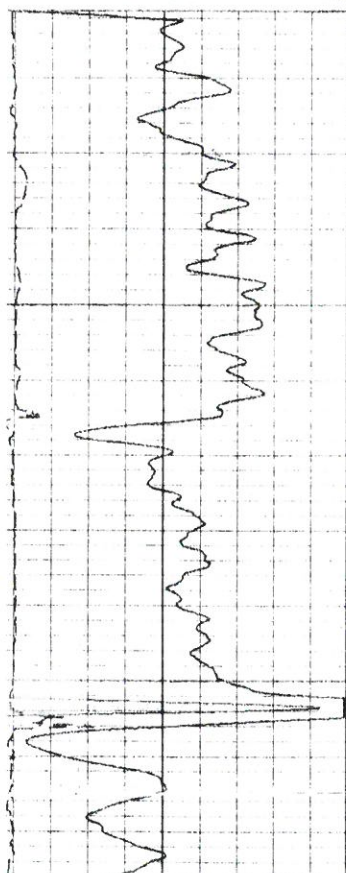
### LOG PARAMETERS

MATRIX DENSITY: 2.71 NEUTRON MATRIX: LIMESTONE MATRIX DELTA T: 49  
 MAGNETIC DECL: 0 ELECT CUTOFF: 3777 BIT SIZE: 6.75  
 PRESENTATION NAME/DATE: CWS CHANUTE NDL POR 5.0 04/04/2008 VERSION: 3.64F1

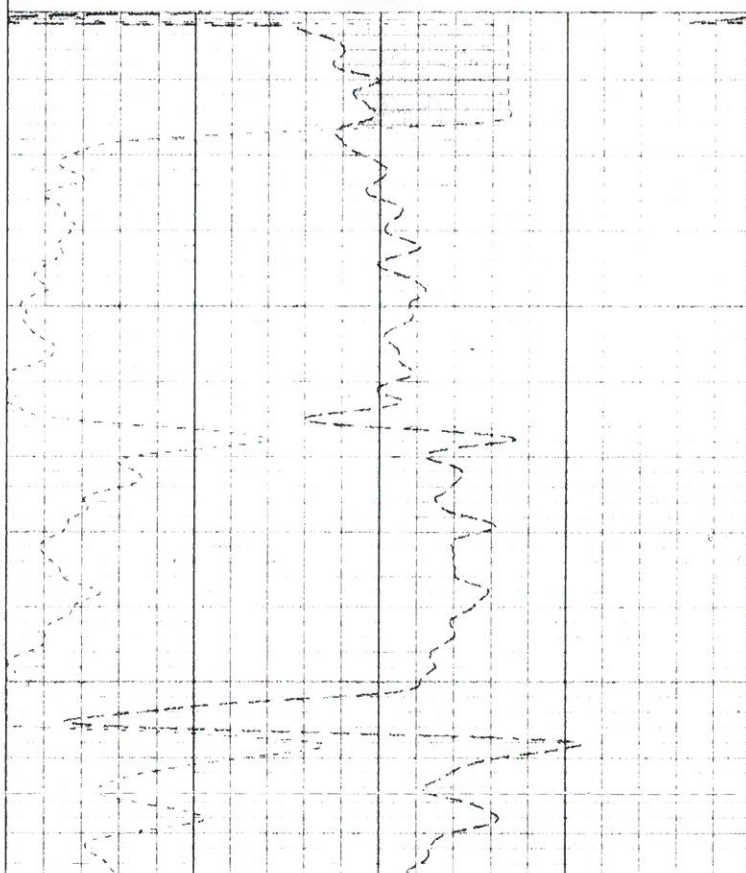
CALIPERL	
INCH	16
GAMMA	
API-GR	150

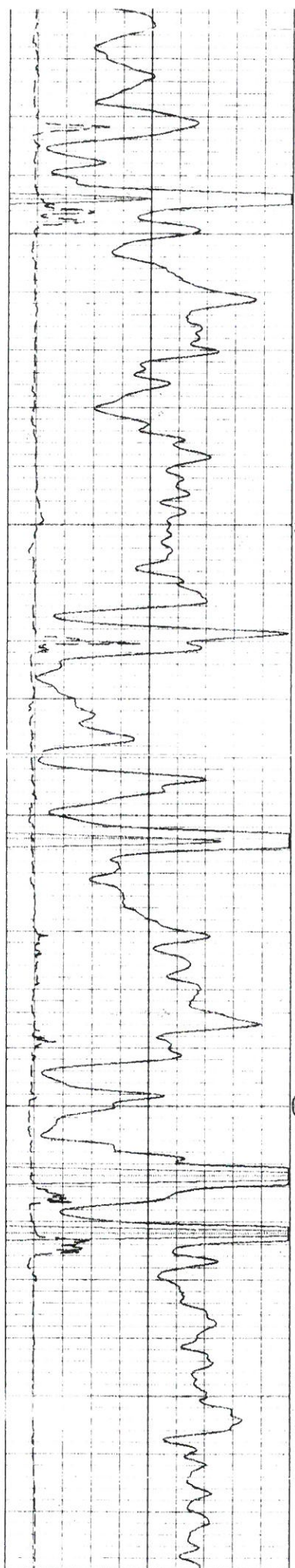
FEET

	POR(NEU)	
30	PERCENT	-10
	POR(DEN)	
30	PERCENT	-10



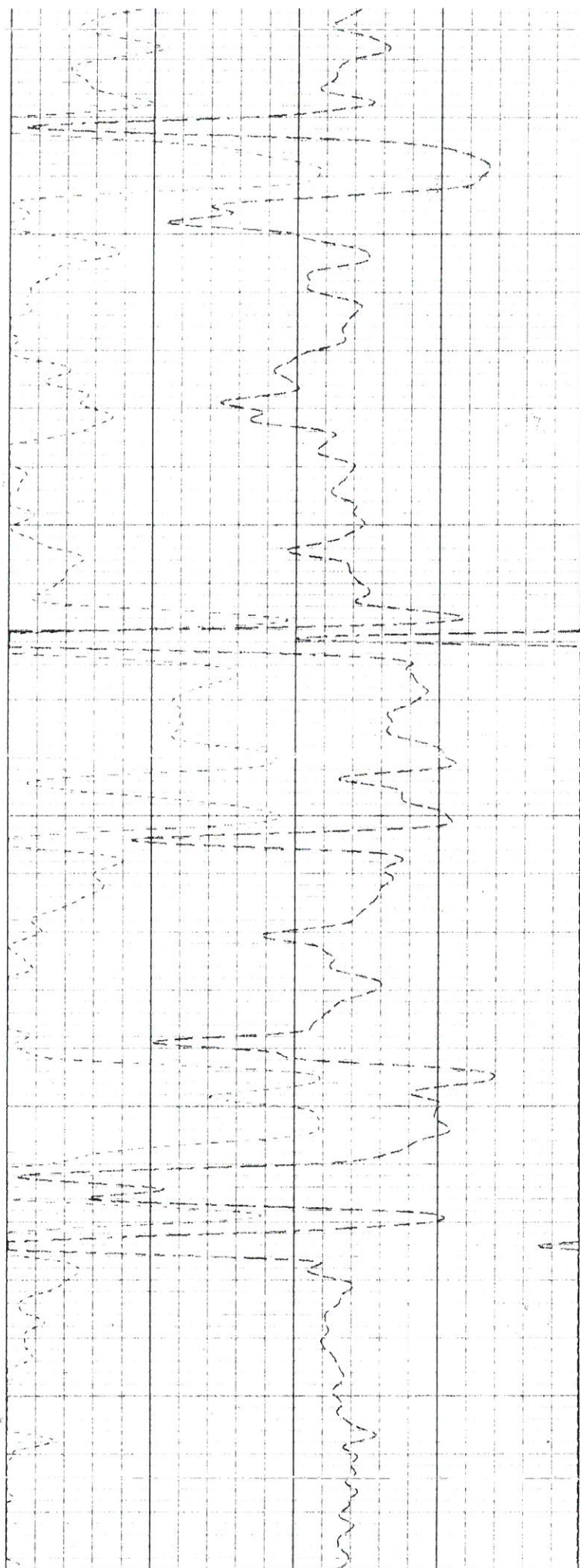
400



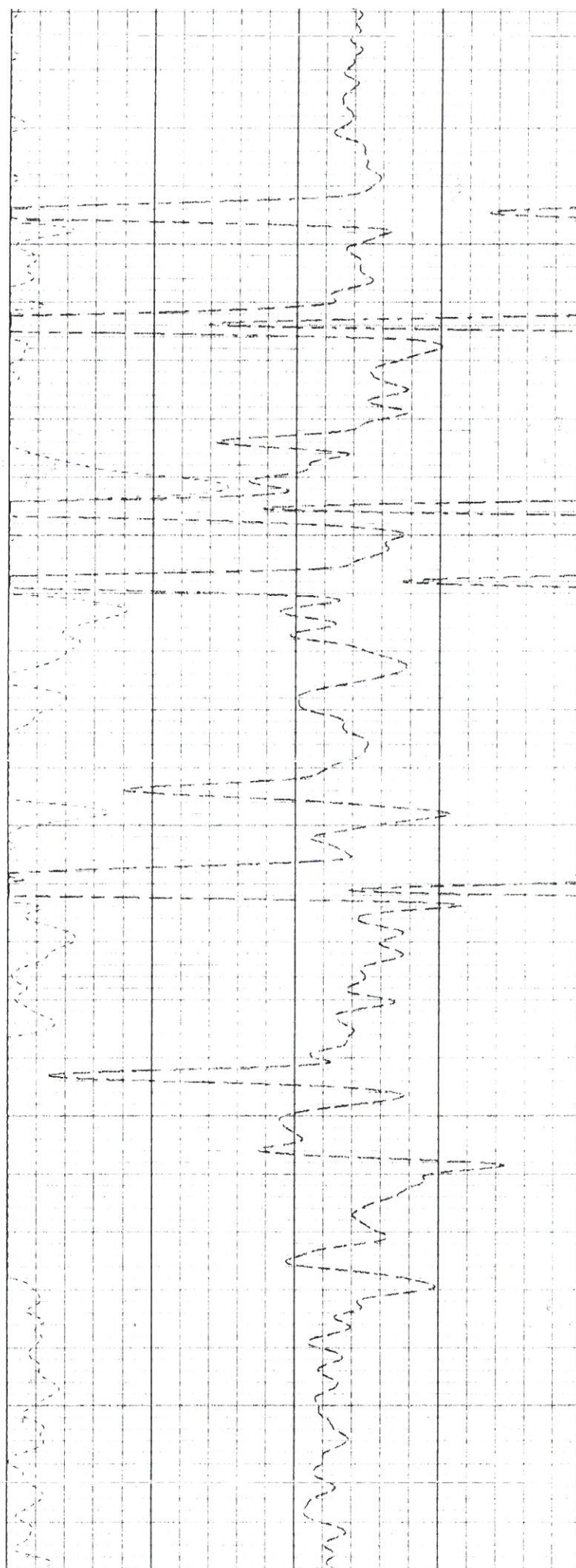
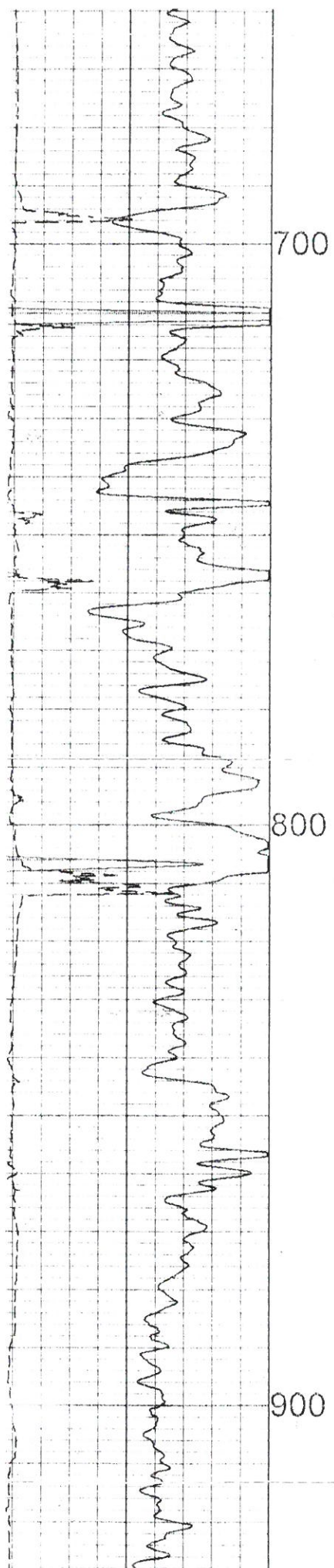


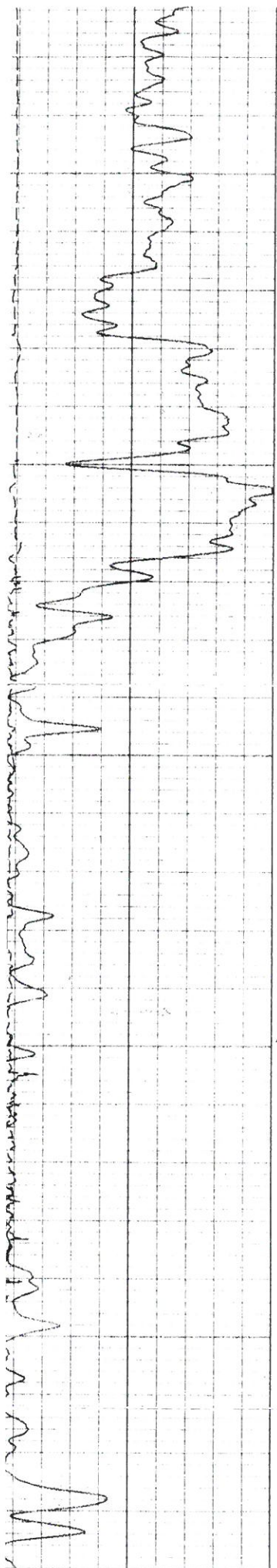
500

600



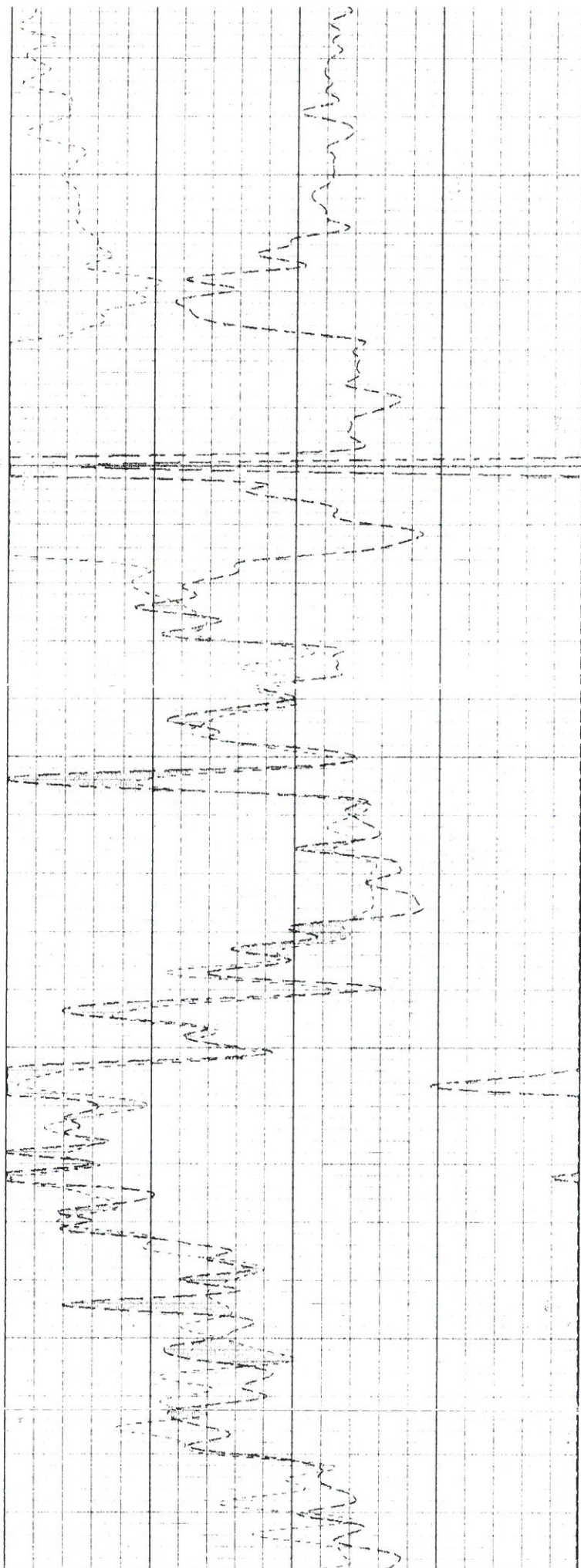




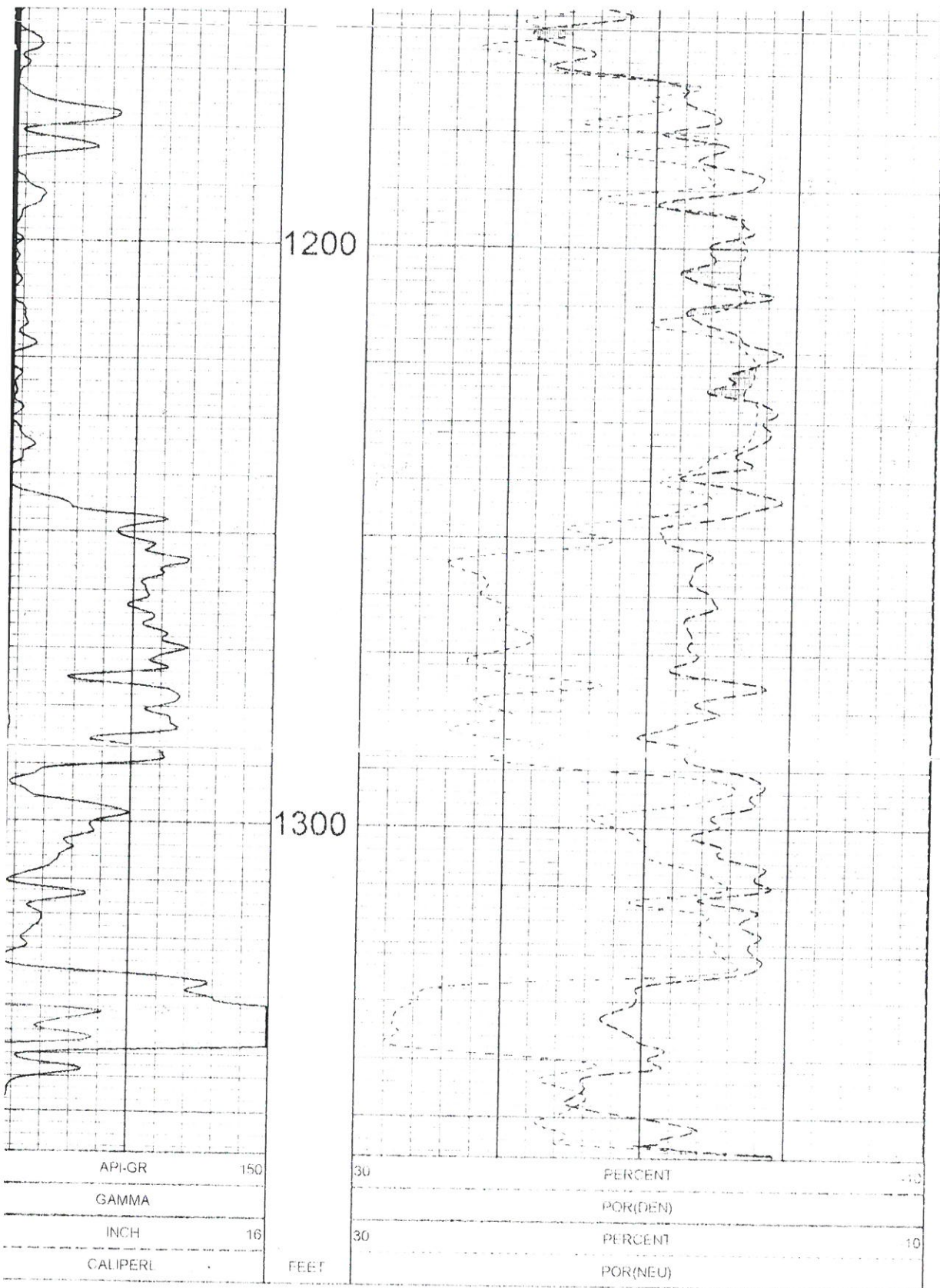


1000

1100







5 INCH LOG, POROSITIES **LASSMAN** #122 04/30/08

LOG PARAMETERS

MATRIX DENSITY 2.71

NEUTRON MATRIX LIMESTONE

MATRIX DELTA T 49

MAGNETIC DECL 0

EFFECT CUTOFF 3/77

BIT SIZE 675

PRESENTATION NAME/DATE = CWS CHANUTE NDL POR 5.0 04/04/2008

VERSION = 3.64F1

MATRIX DENSITY 2.71

NEUTRON MATRIX LIMESTONE

MATRIX DELTA T 49

MAGNETIC DECL 0

ELECT CUTOFF 3777

BIT SIZE 6.75

PRESENTATION NAME/DATE = CWS CHANUTE NDL POR 5.0 04/04/2008

VERSION = 3.64F1

## 5 INCH LOG, DENSITY LASSMAN #122 04/30/08

## LOG PARAMETERS

MATRIX DENSITY 2.71

NEUTRON MATRIX LIMESTONE

MATRIX DELTA T 49

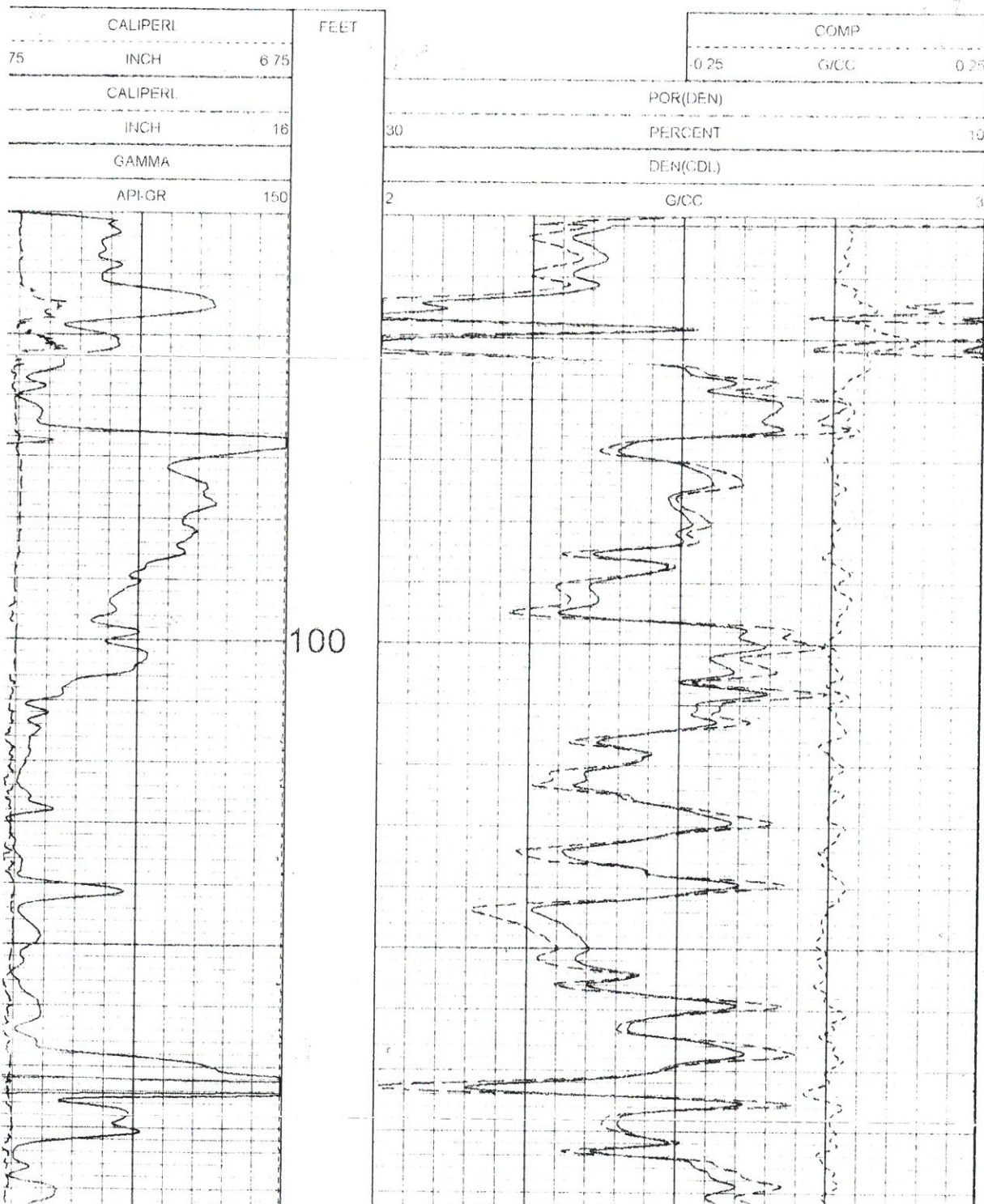
MAGNETIC DECL 0

ELECT CUTOFF 3777

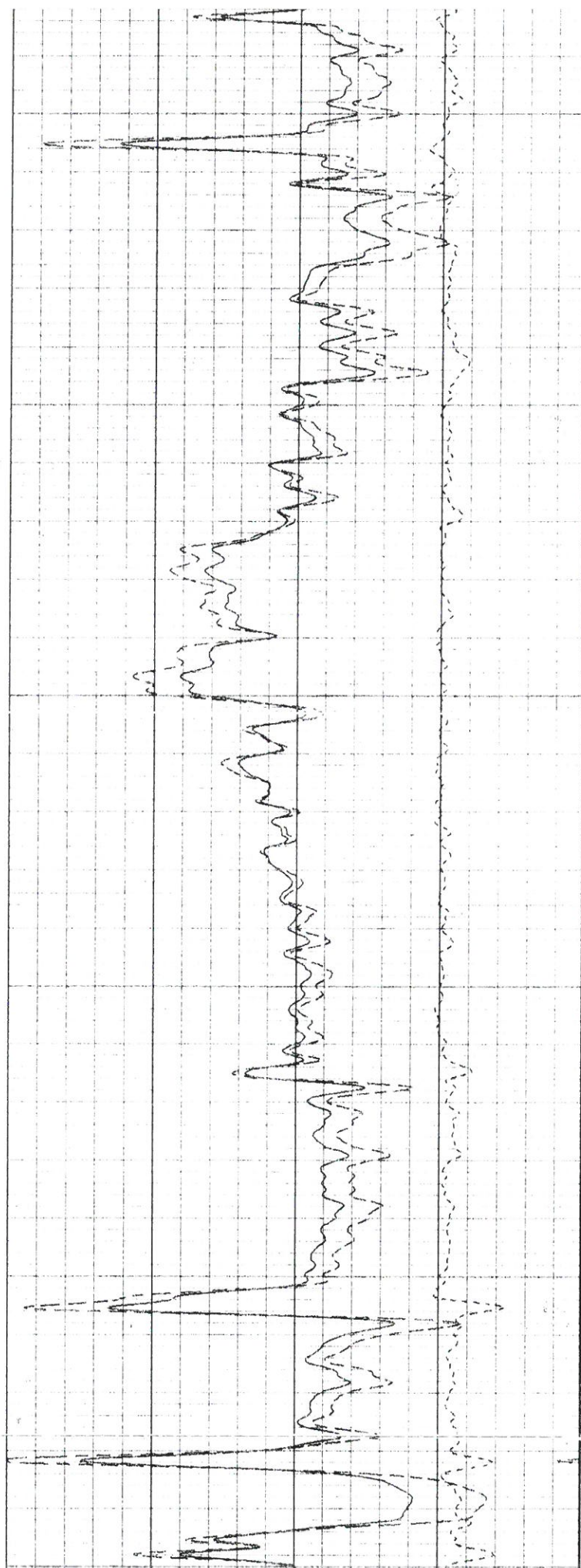
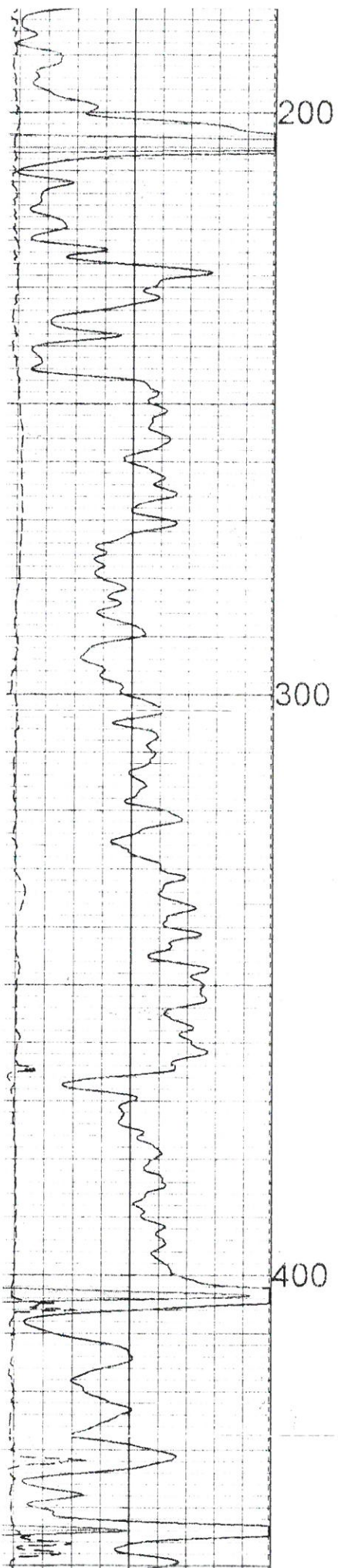
BIT SIZE 6.75

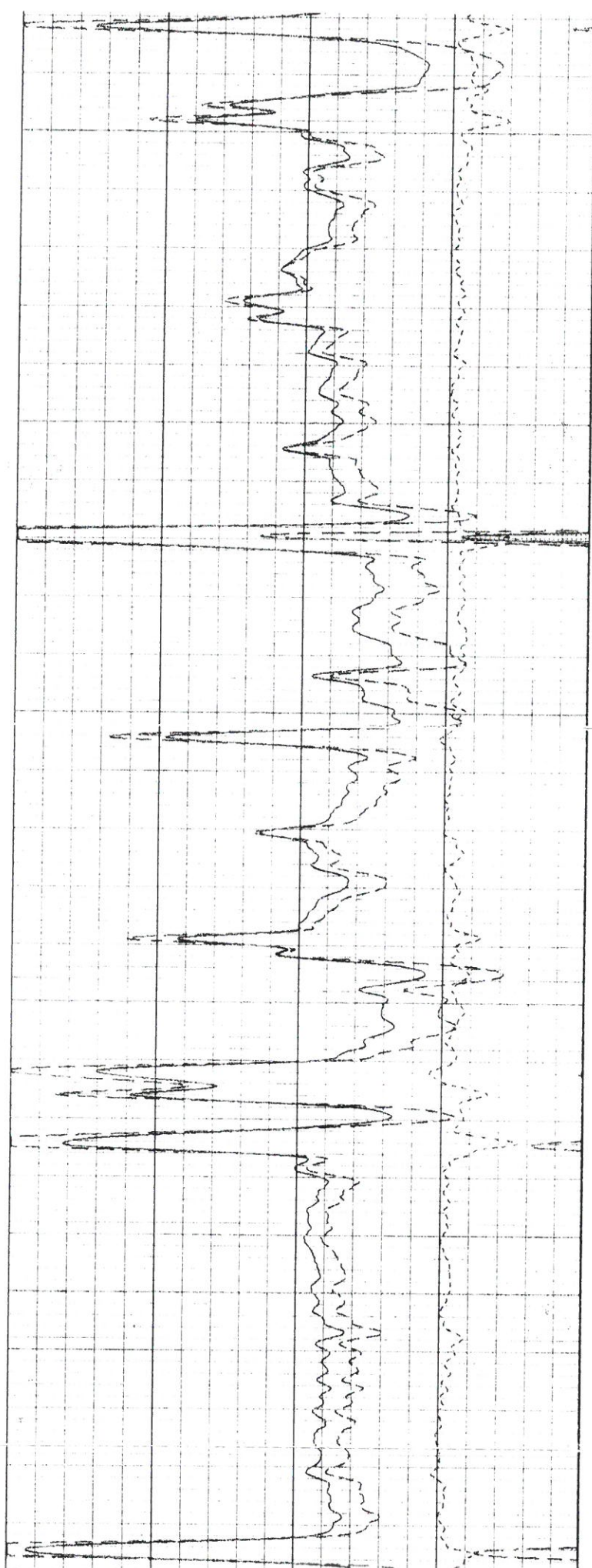
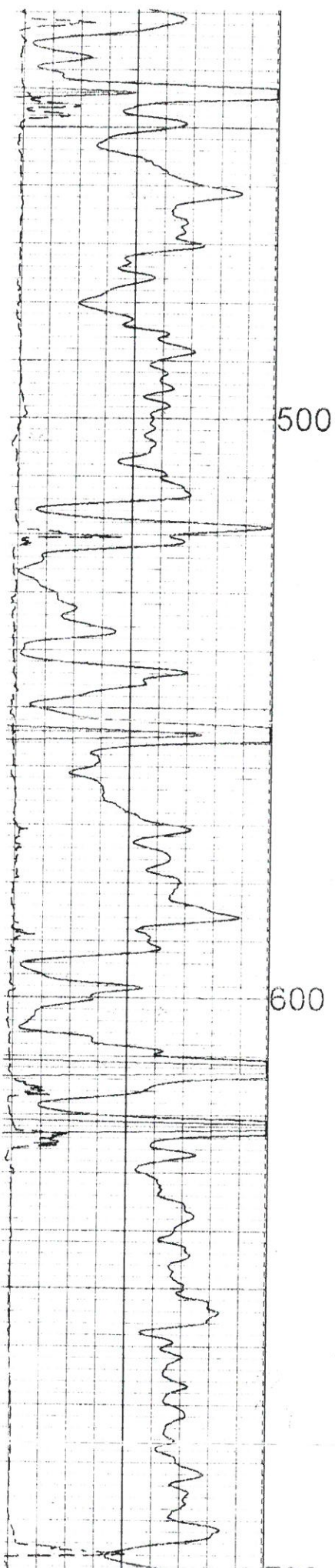
PRESENTATION NAME/DATE = 9139A10 04/30/2008

VERSION = 3.64F1

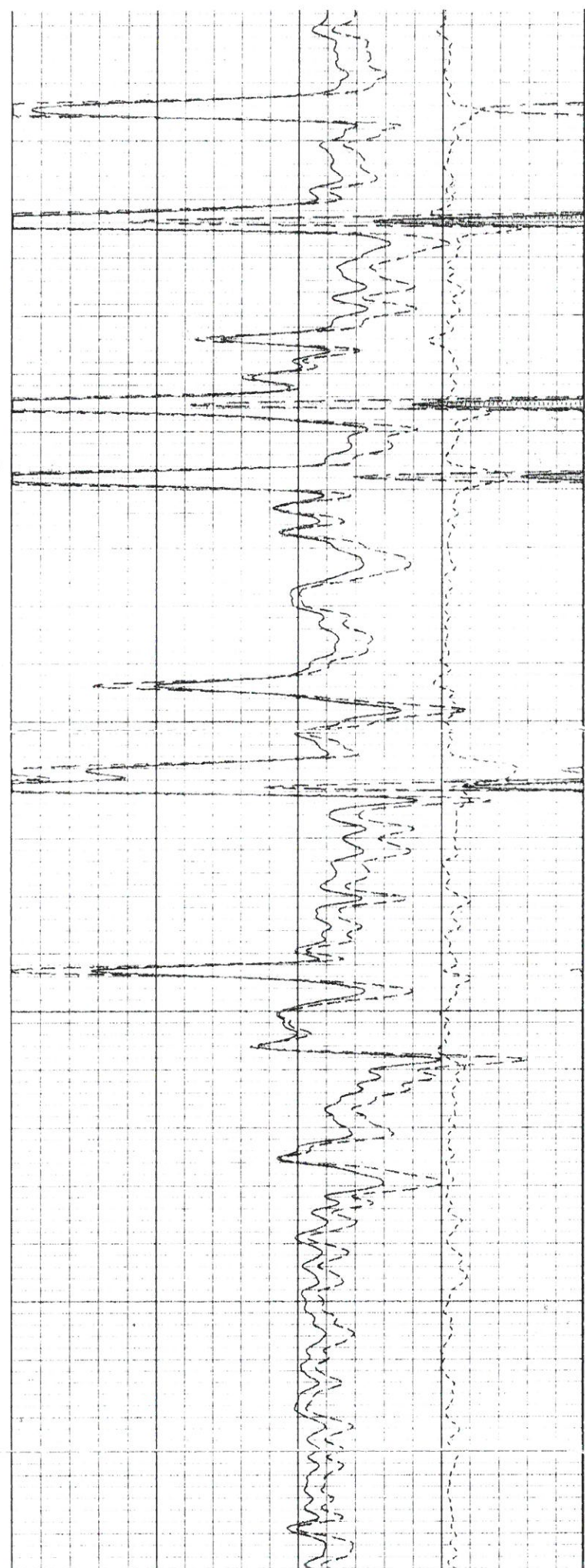
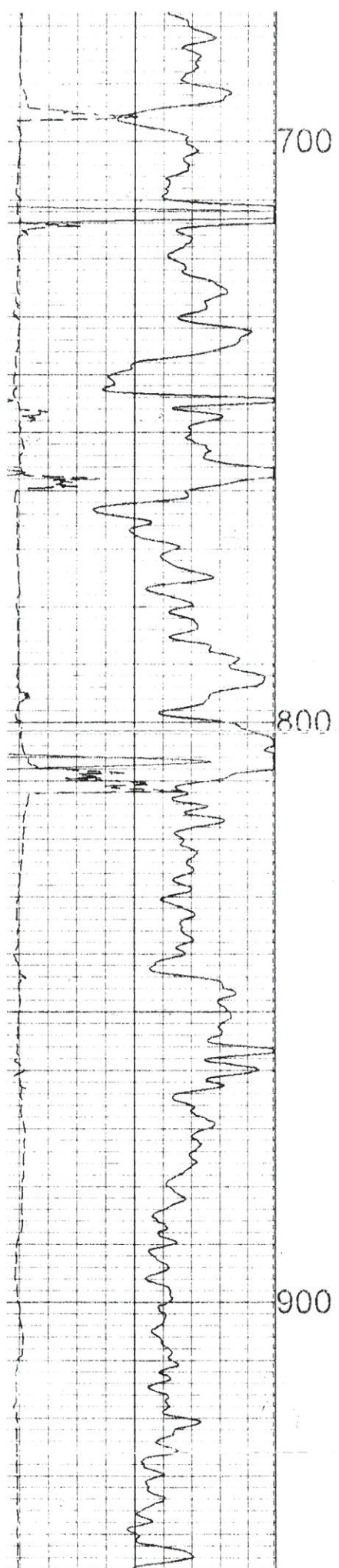




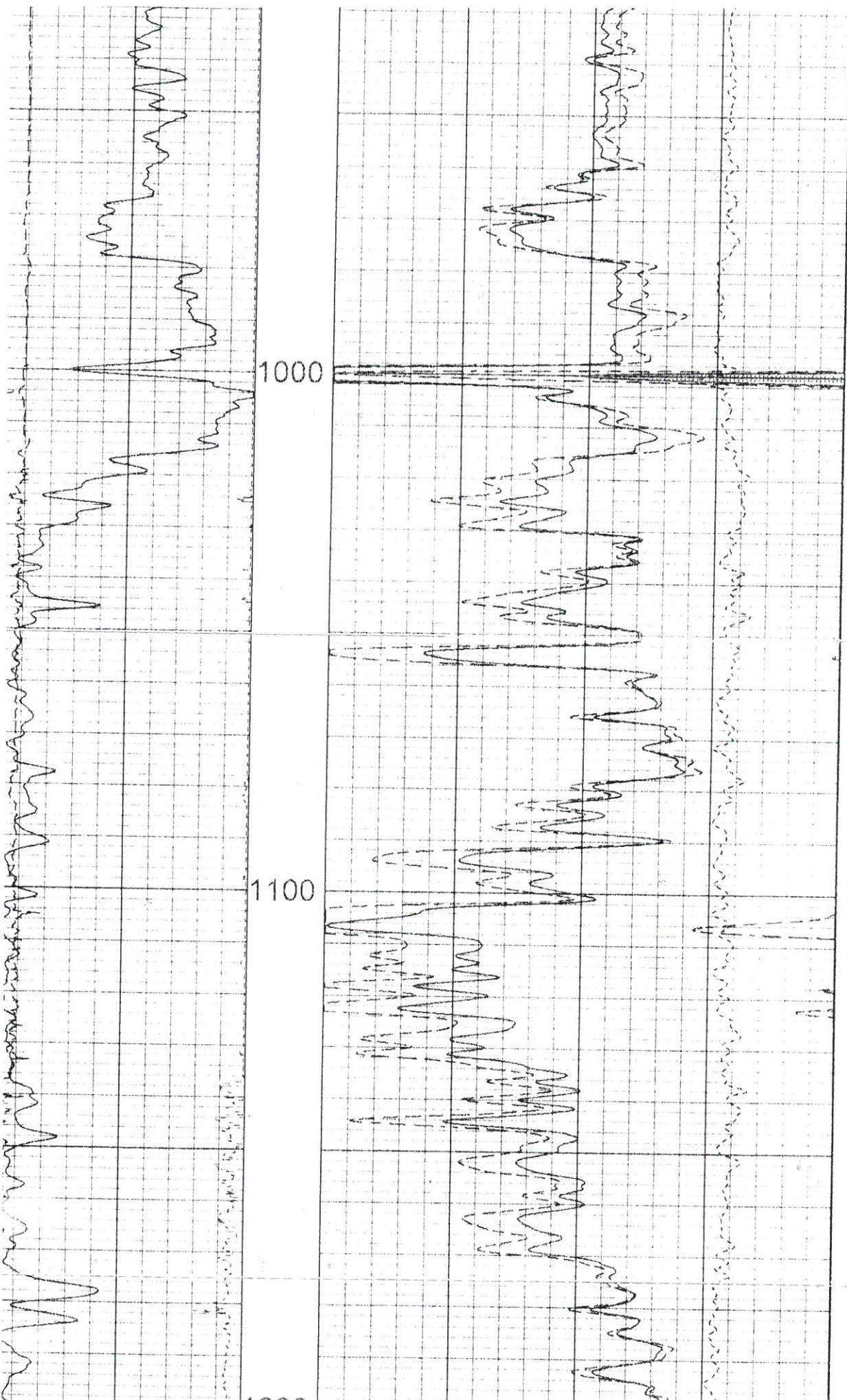




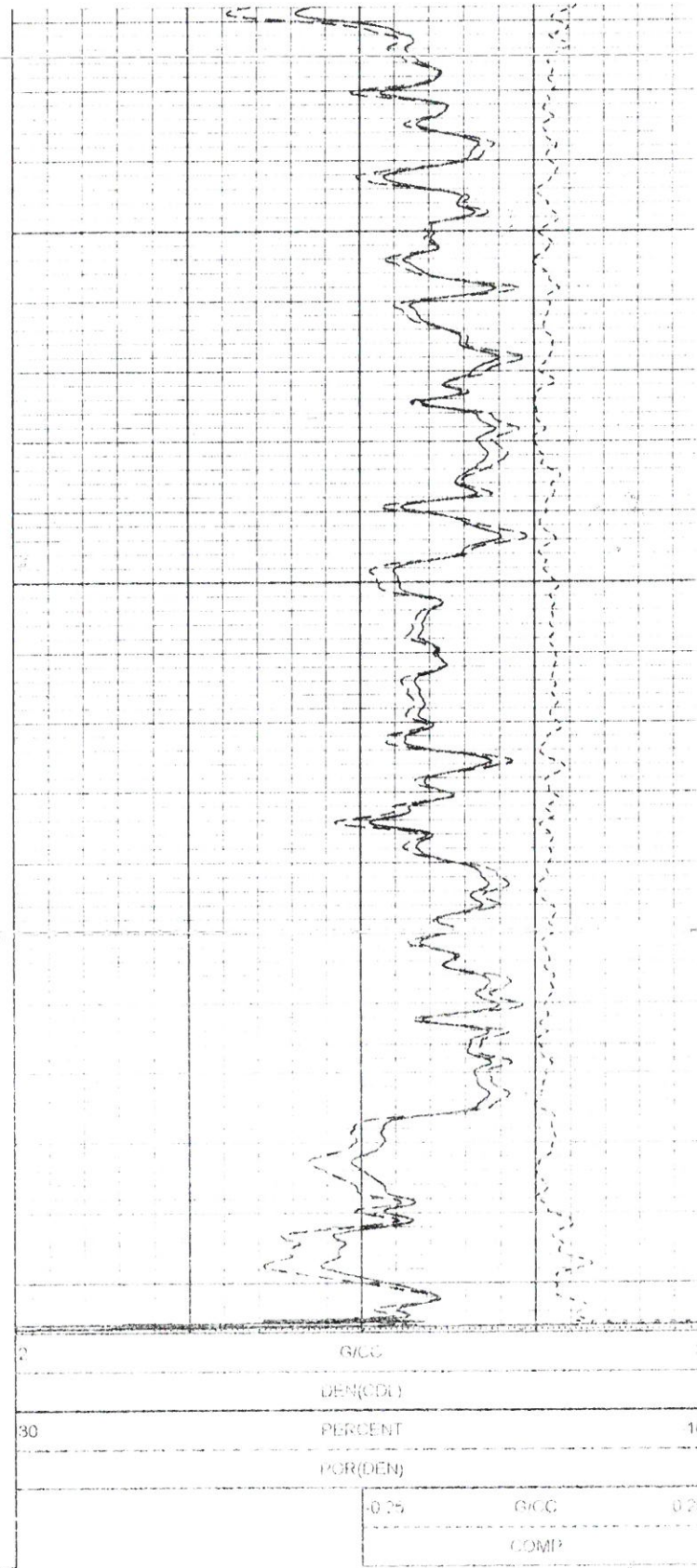
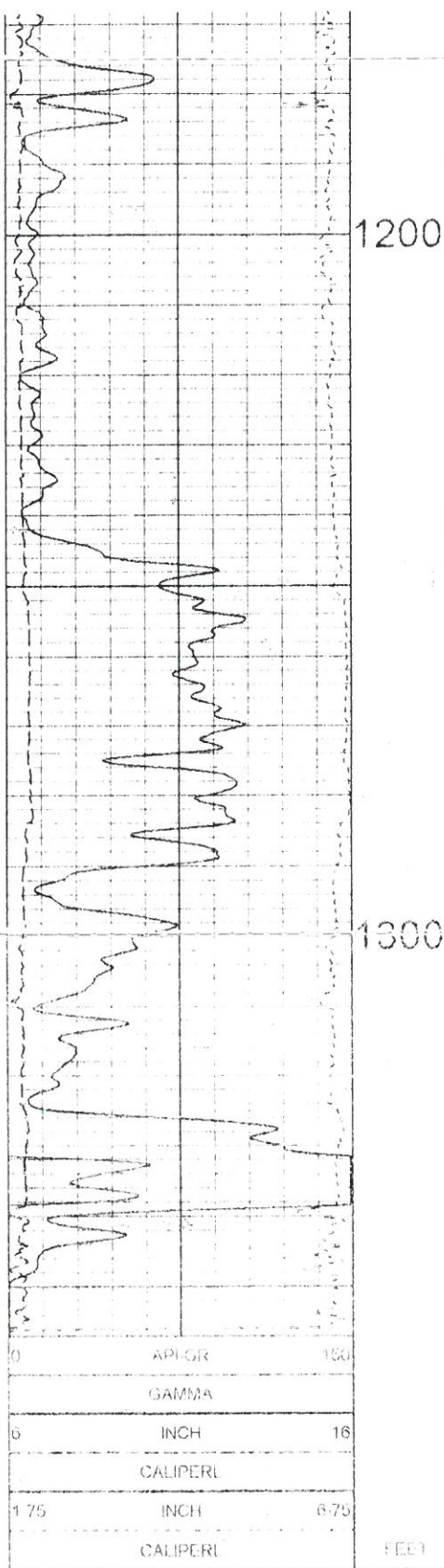












5 INCH LOG, DENSITY LASSMAN #122 04/30/08

# LOG PARAMETERS

MATRIX DENSITY 2.71

NEUTRON MATRIX - LIMESTONE

MATRIX DELTA T 49

MAGNETIC DECL 0

ELECT CUTOFF 3.75

BIT SIZE 8.125

PRESENTATION NAME/DATE 9139A1.0 04/30/2008

VERSION = 3.64F1

MATRIX DENSITY 2.71

NEUTRON MATRIX: LIMESTONE

MATRIX DELTA T 49

MAGNETIC DECL 0

ELECT CUTOFF 3777

BIT SIZE 6.75

PRESENTATION NAME/DATE 9139A1.0 04/30/2008

VERSION 3.04F1

# 25 INCH LOG, HIGH RES. DENSITY LASSMAN #122 04/30/08

## LOG PARAMETERS

MATRIX DENSITY 2.71

NEUTRON MATRIX: LIMESTONE

MATRIX DELTA T 49

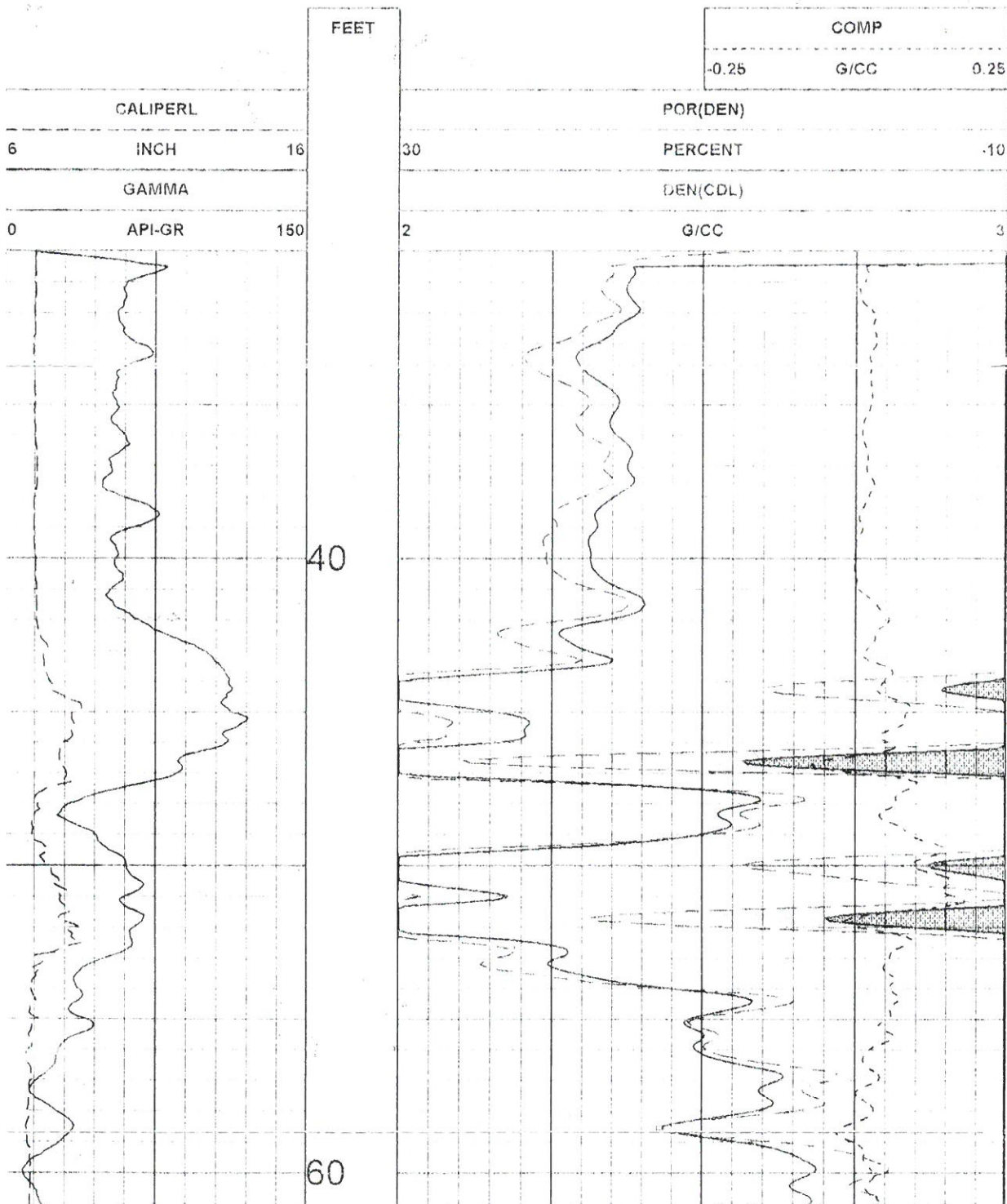
MAGNETIC DECL 0

ELECT CUTOFF 3777

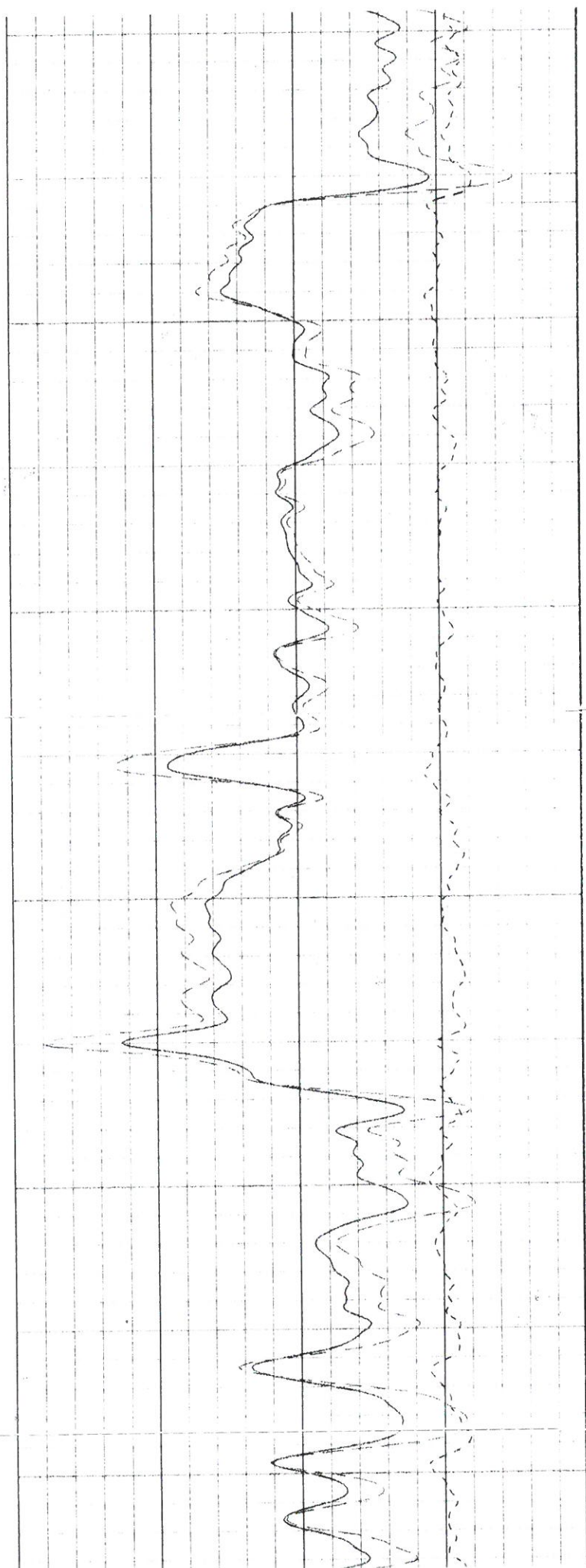
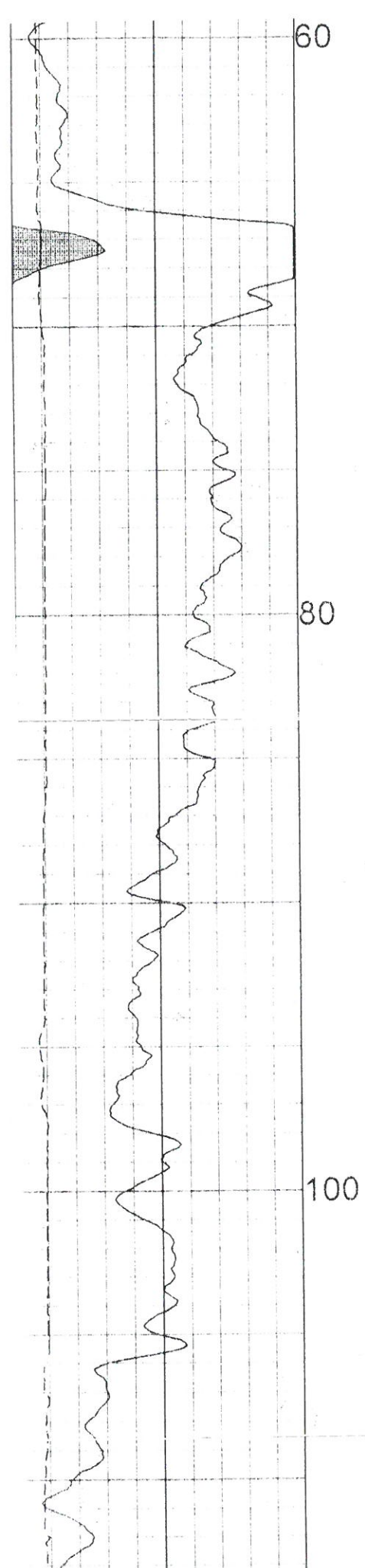
BIT SIZE 6.75

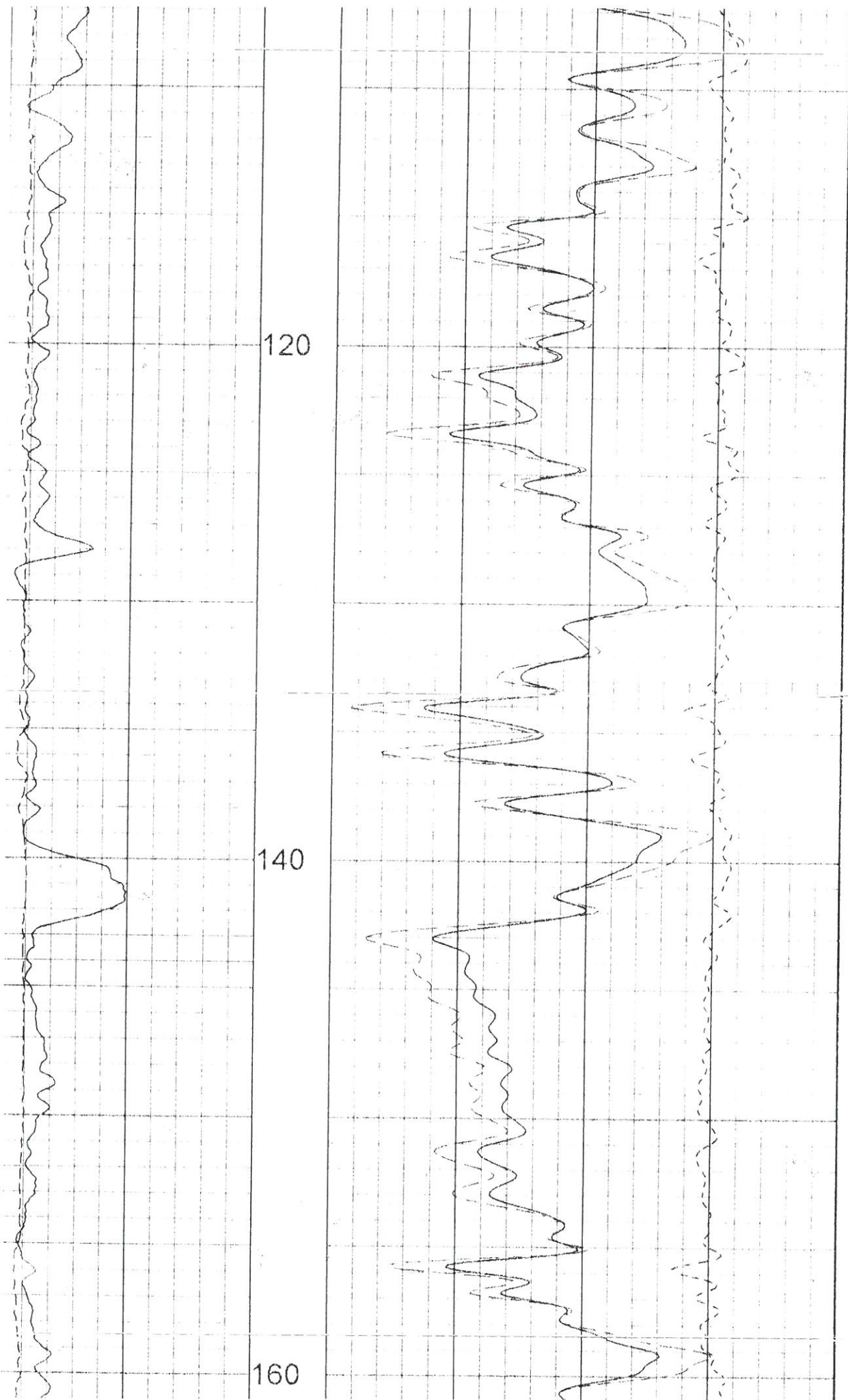
PRESENTATION NAME/DATE CWS CHANUTE CDL 25.0 03/01/2008

VERSION 3.04F1

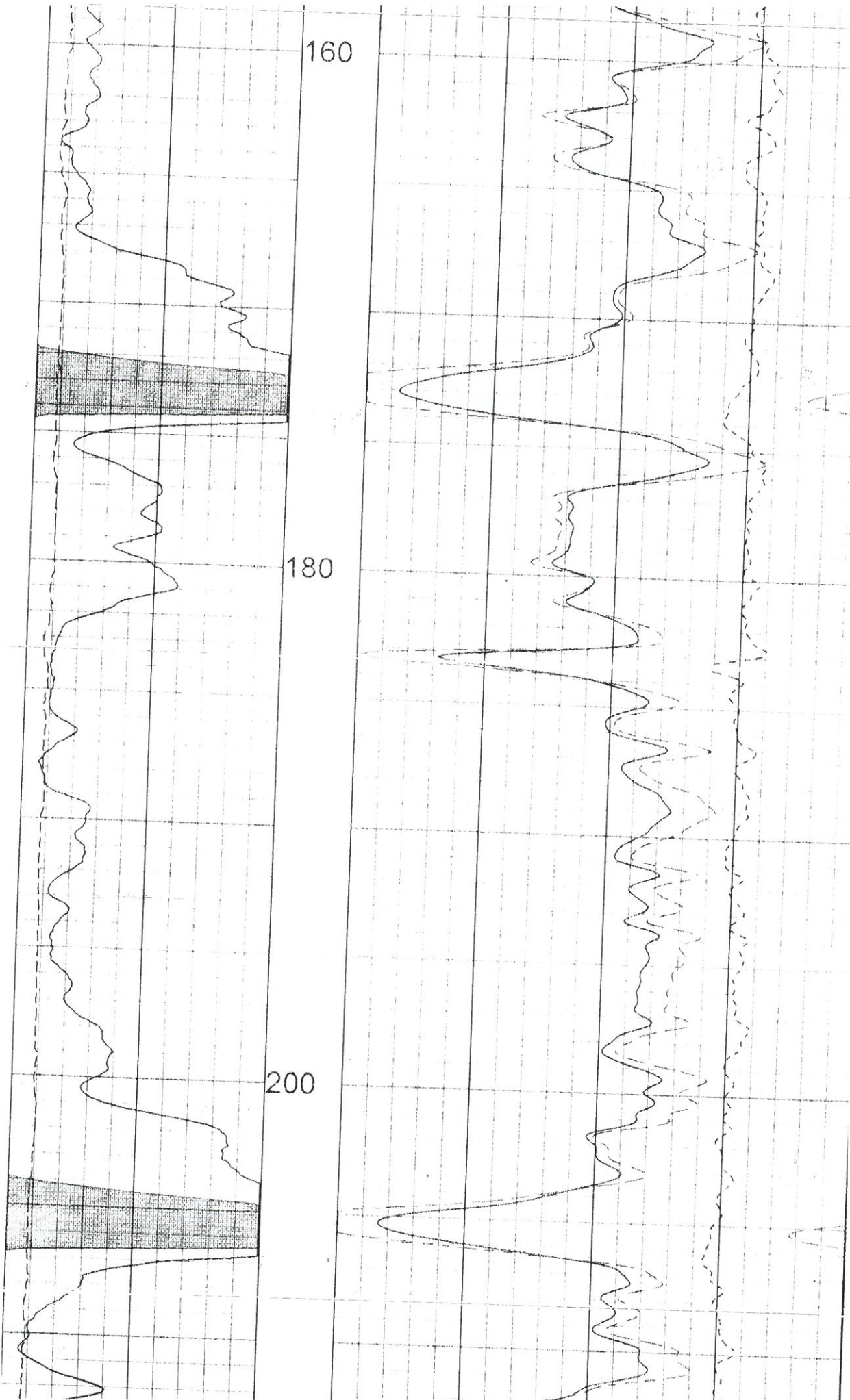


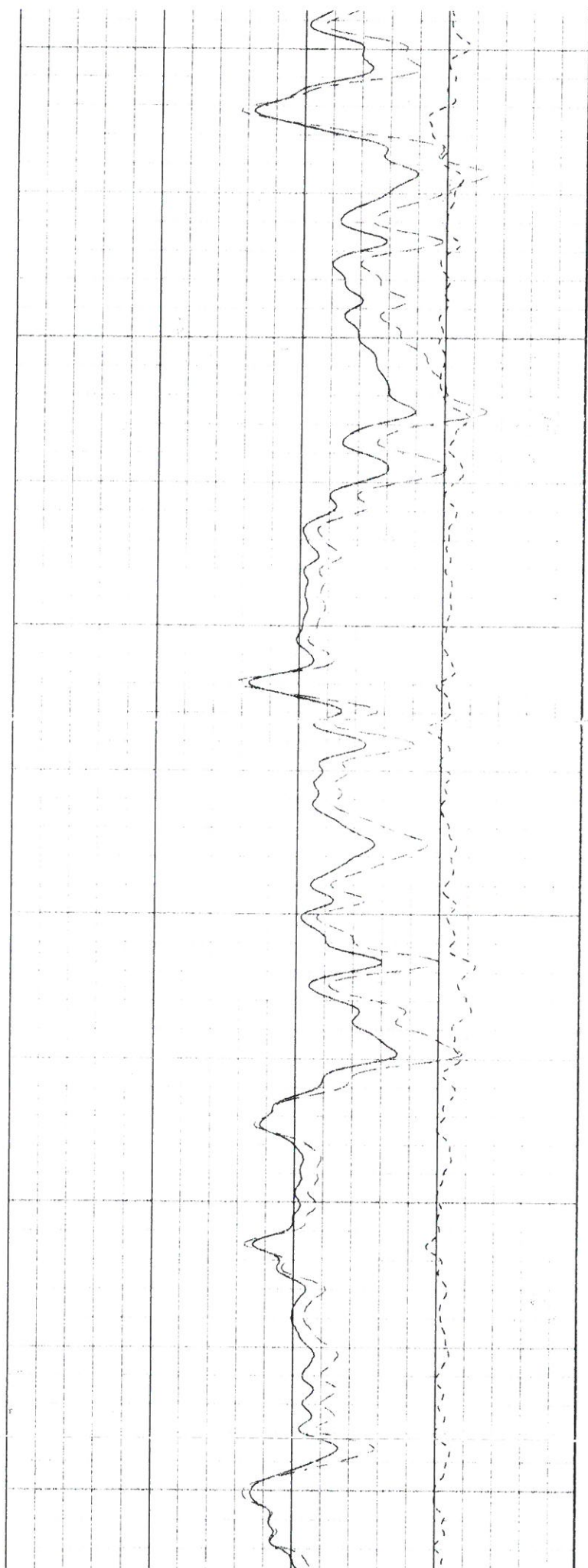
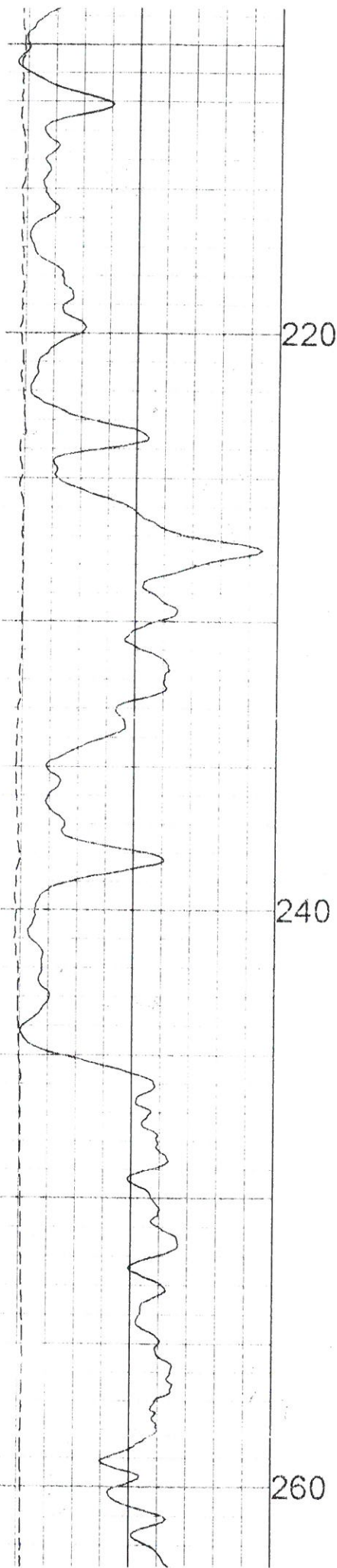




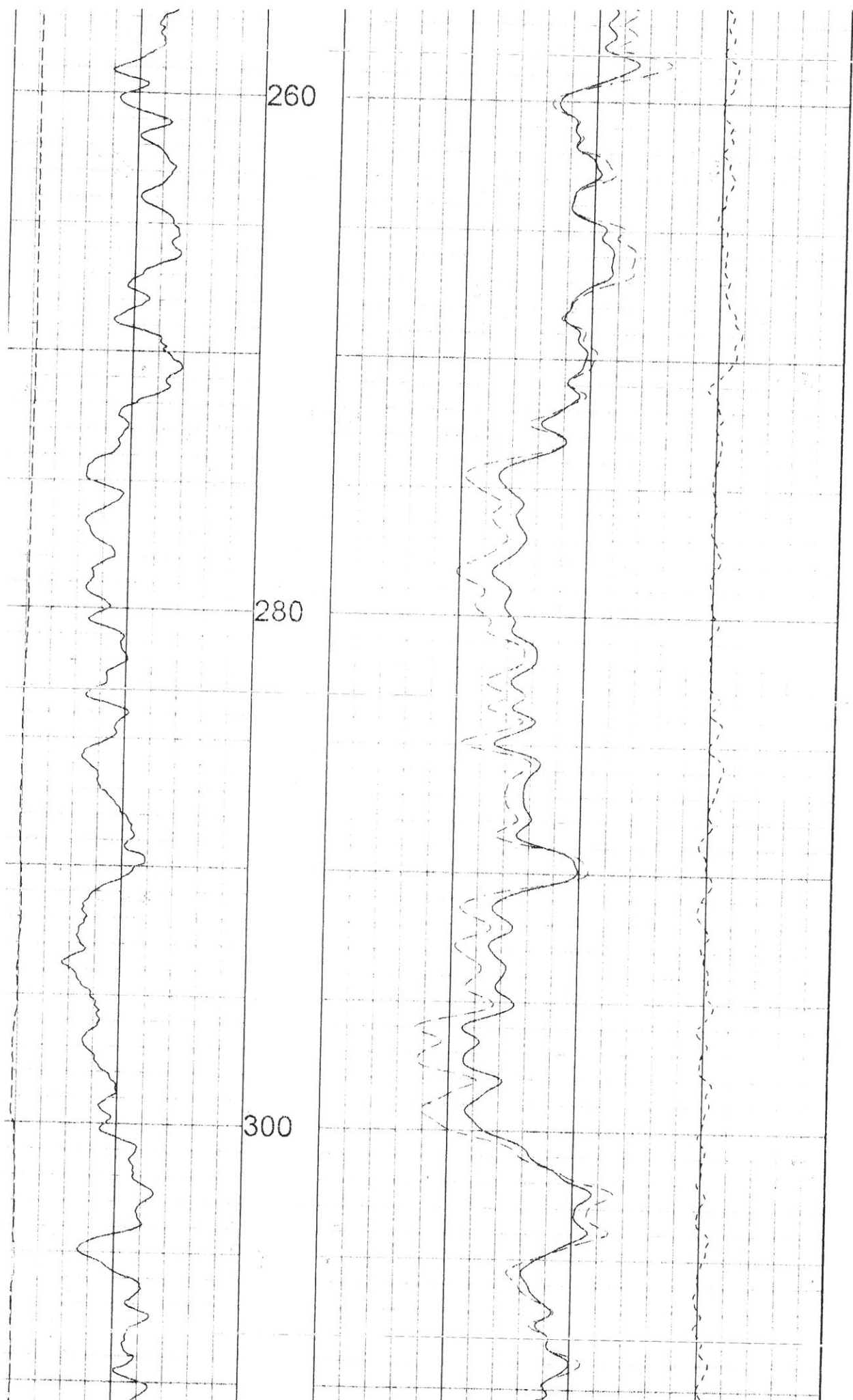










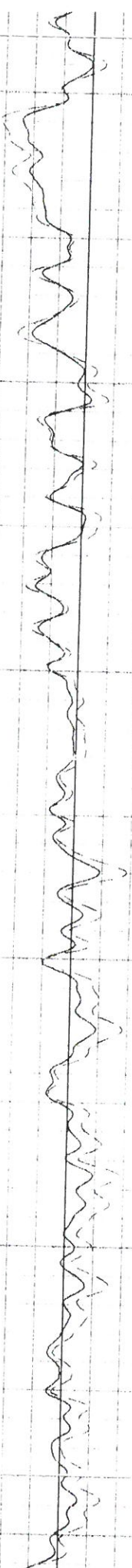




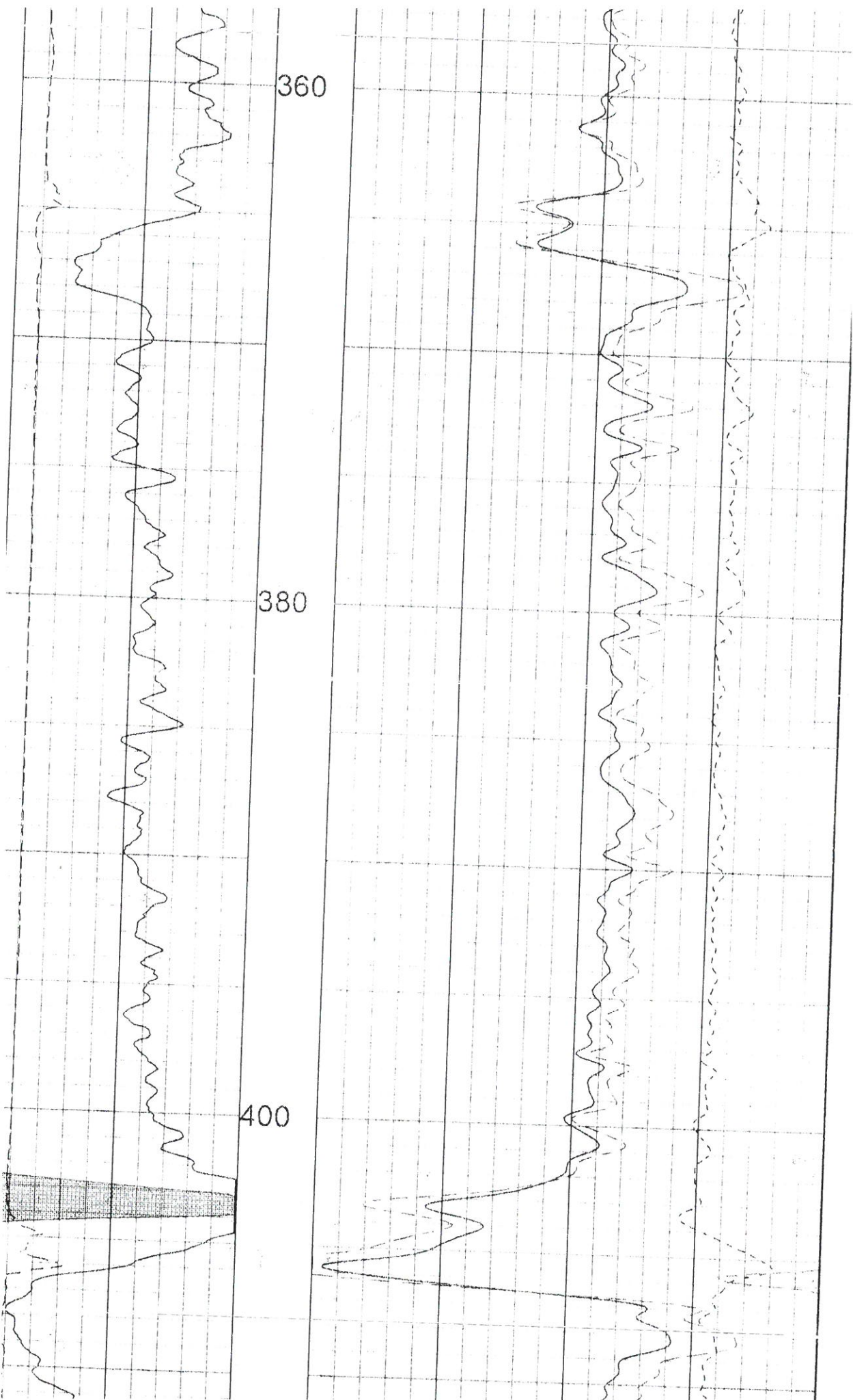
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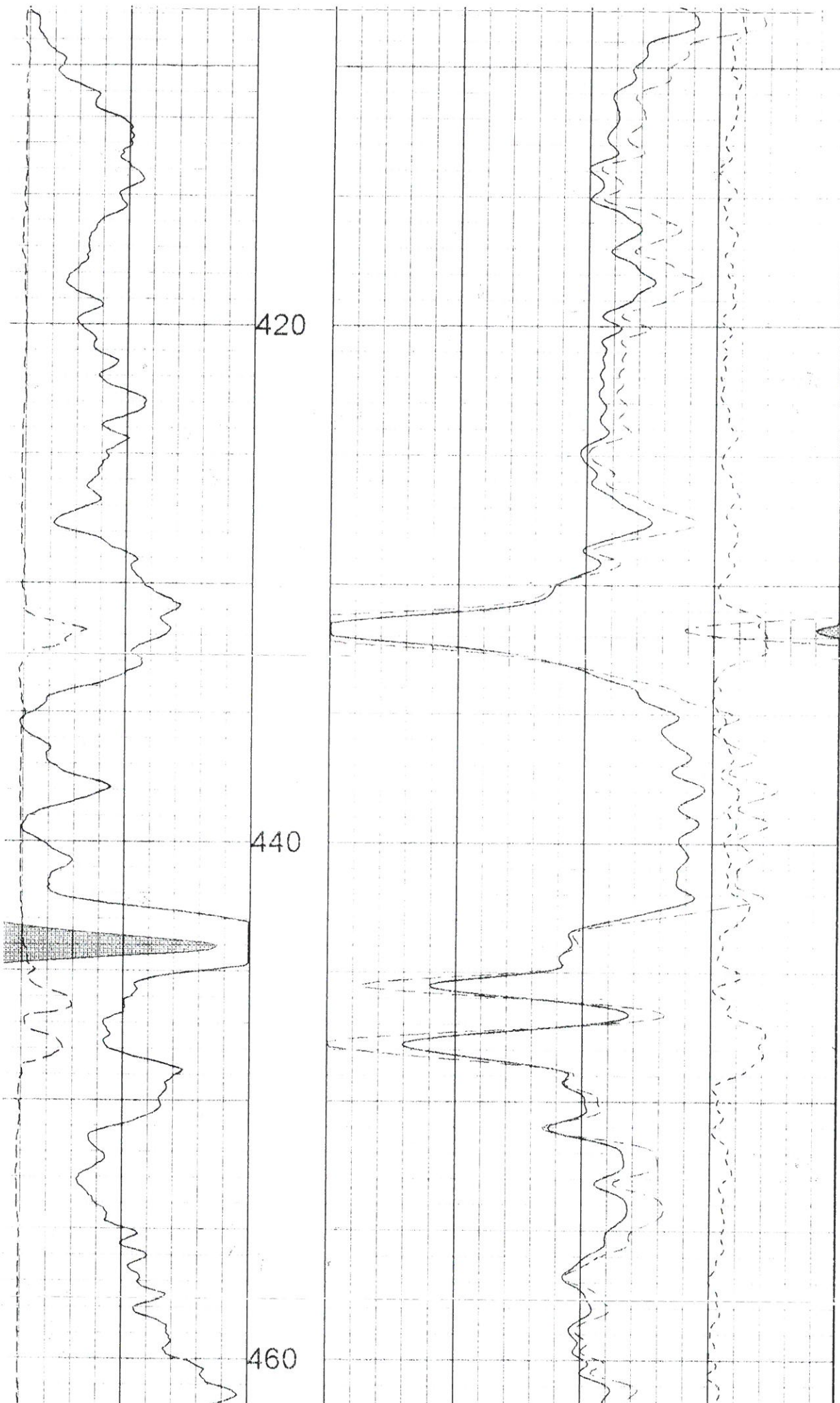
340

360

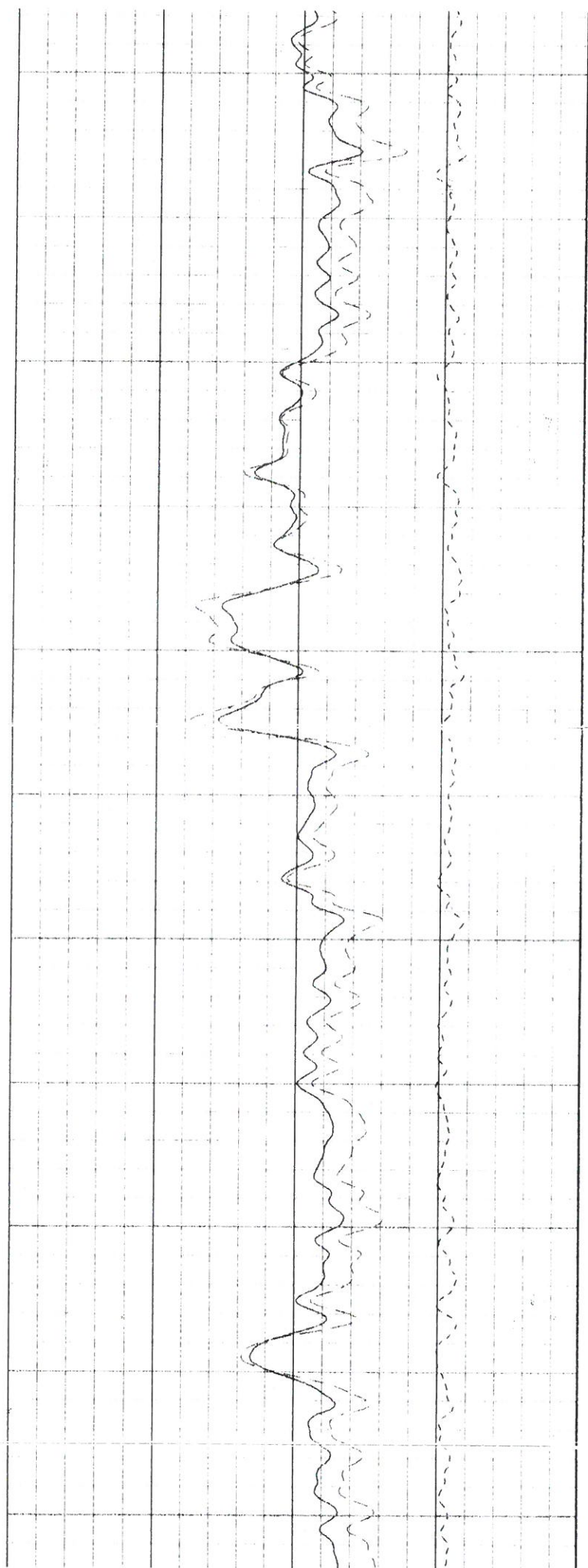
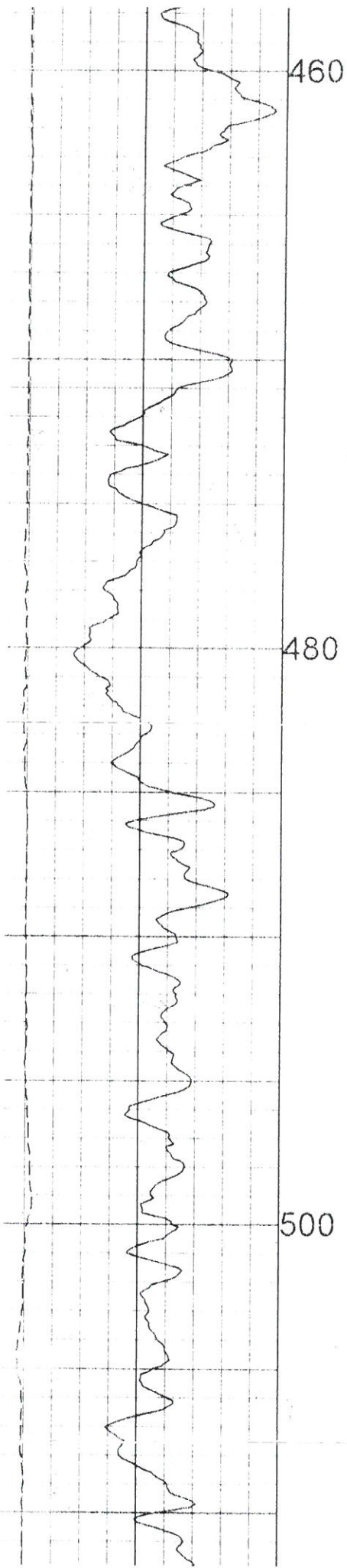


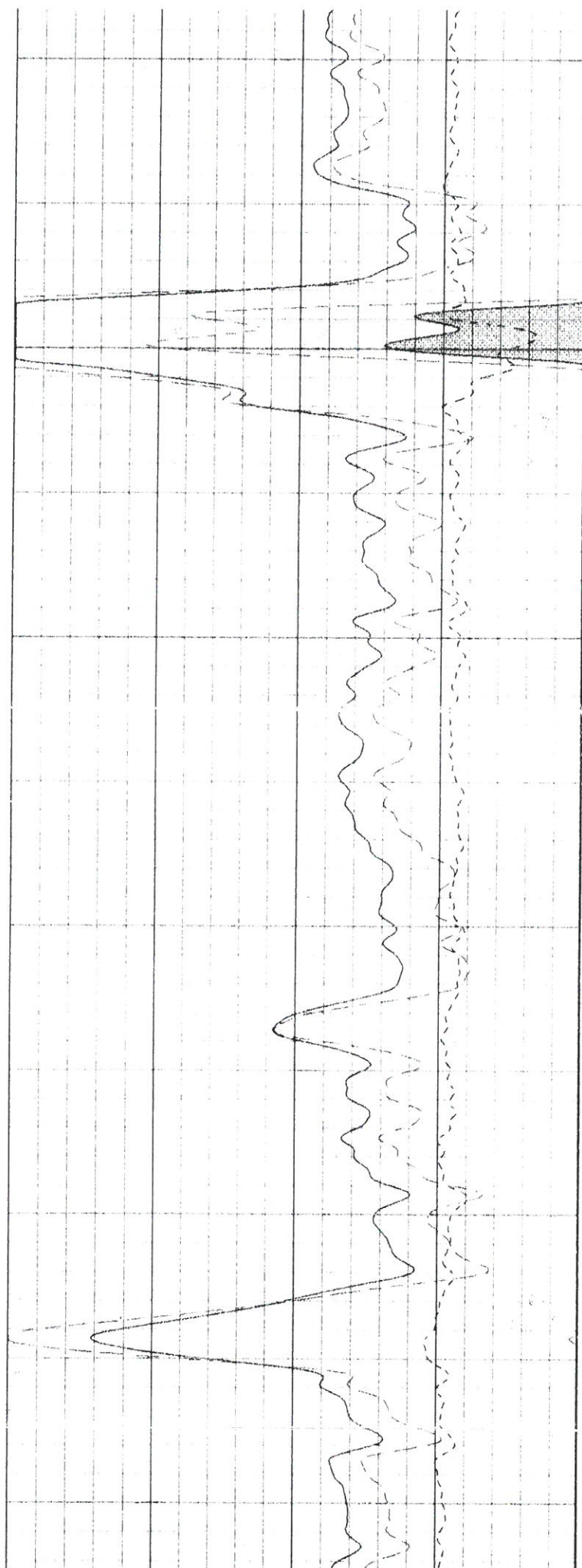
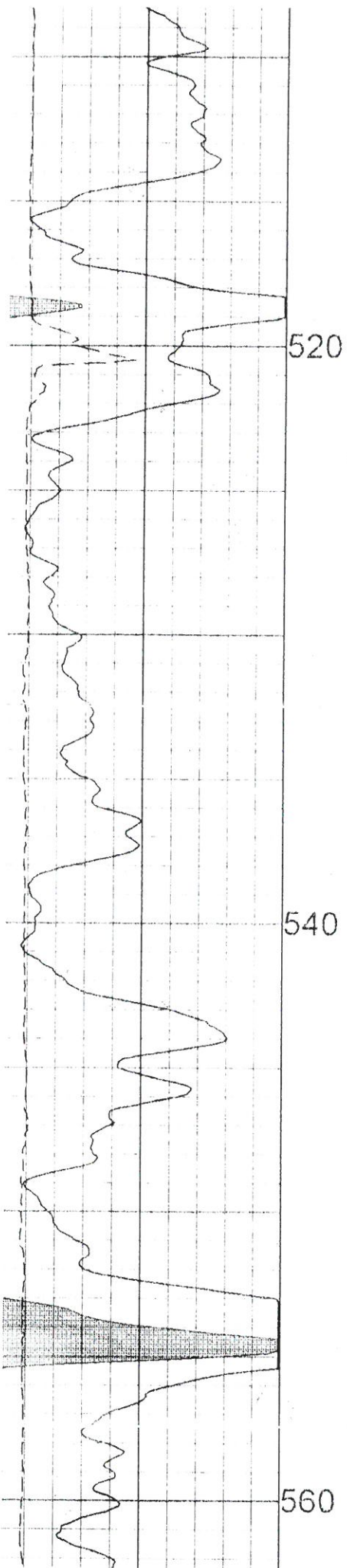




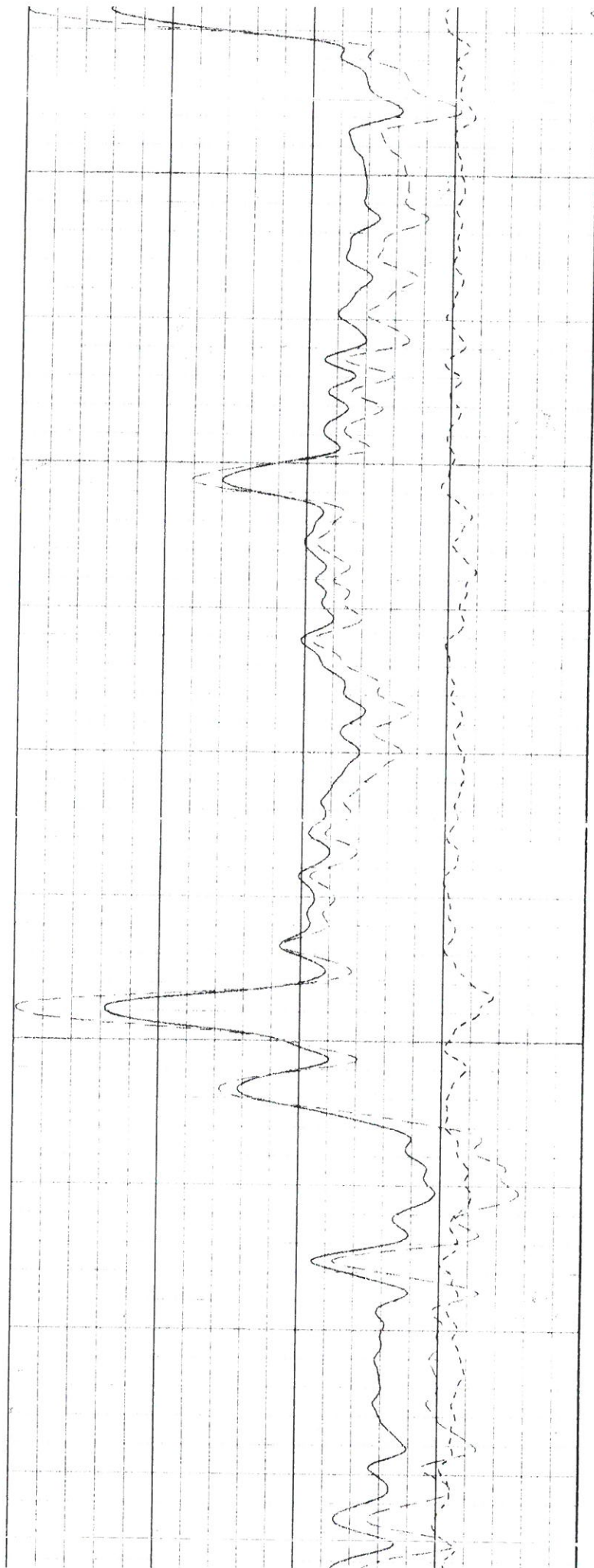
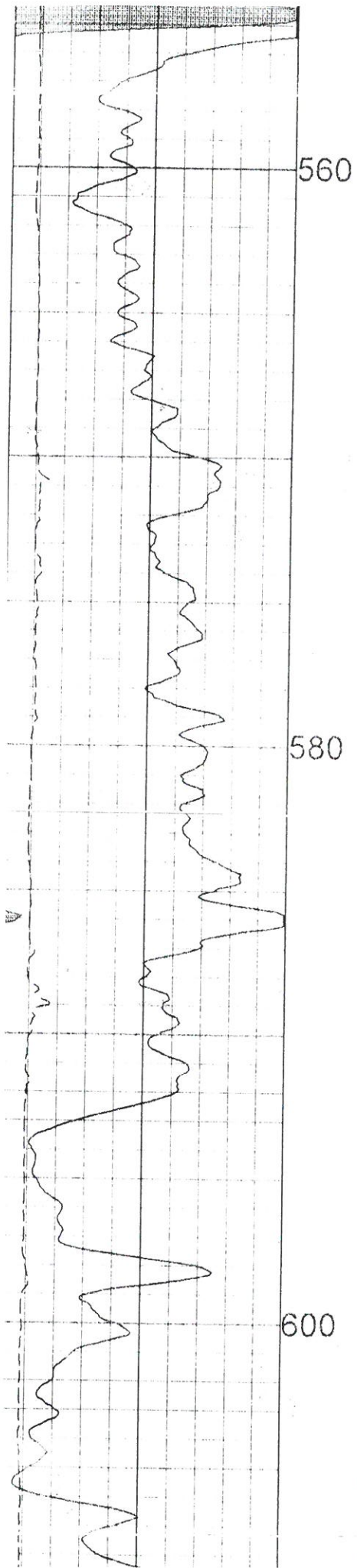


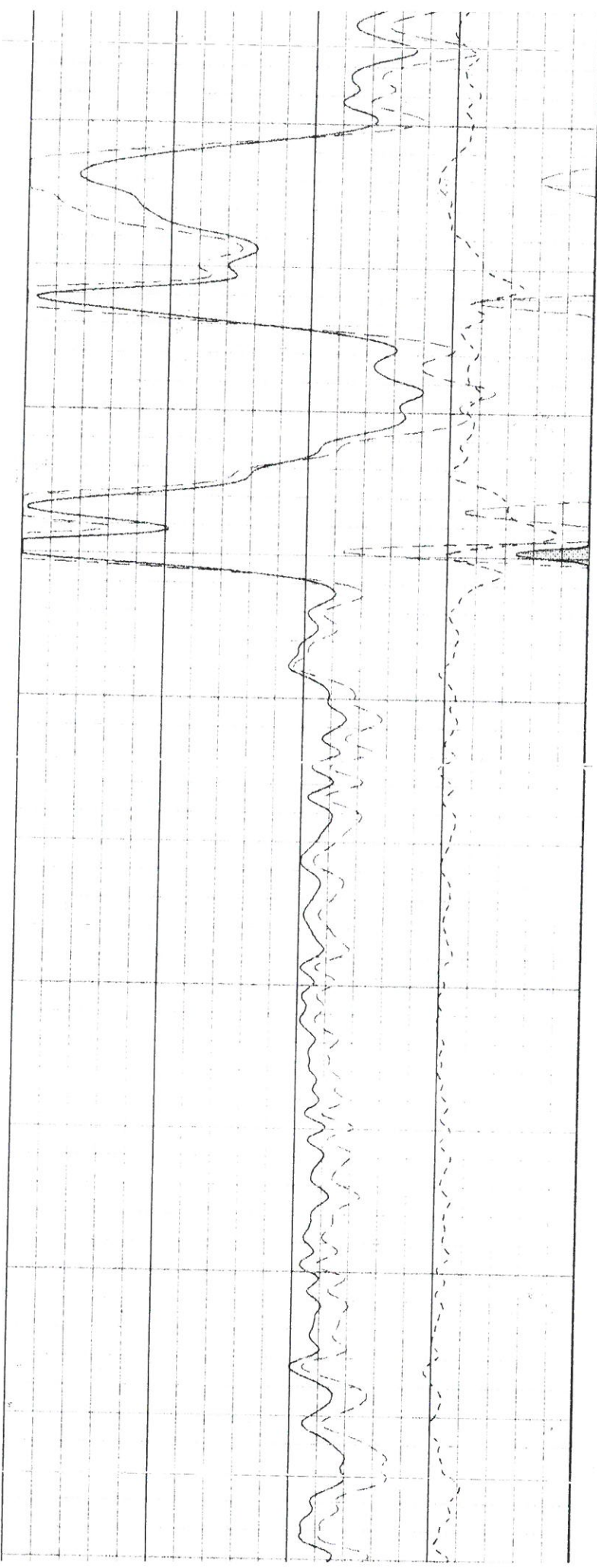
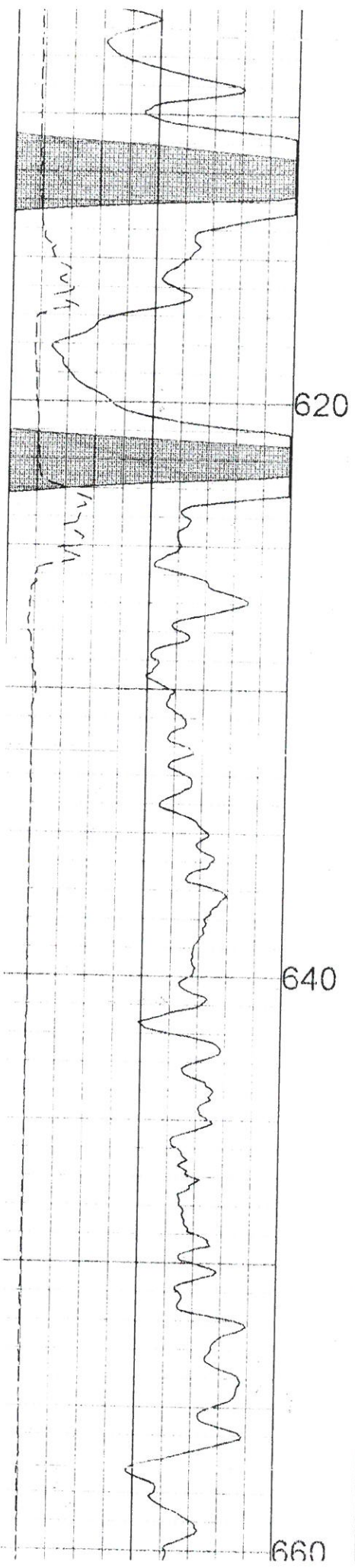




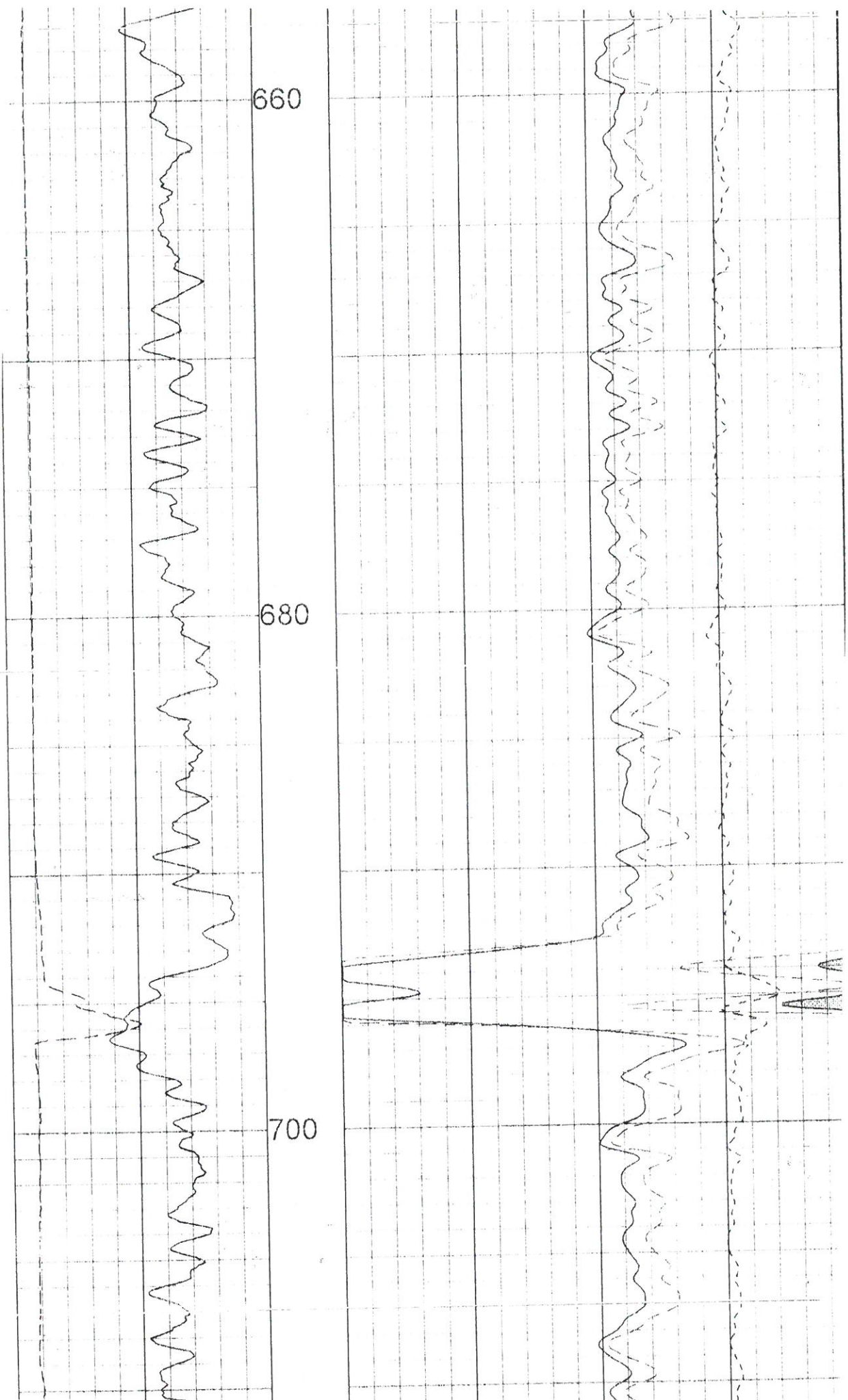


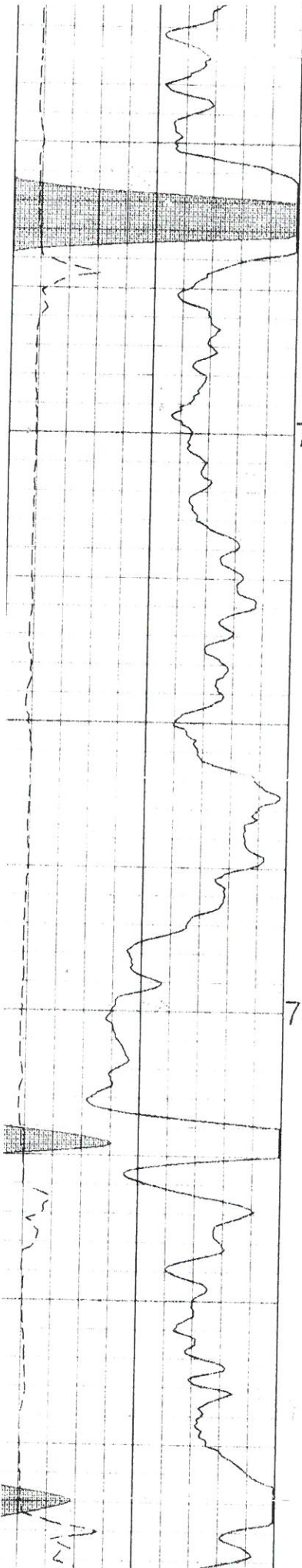






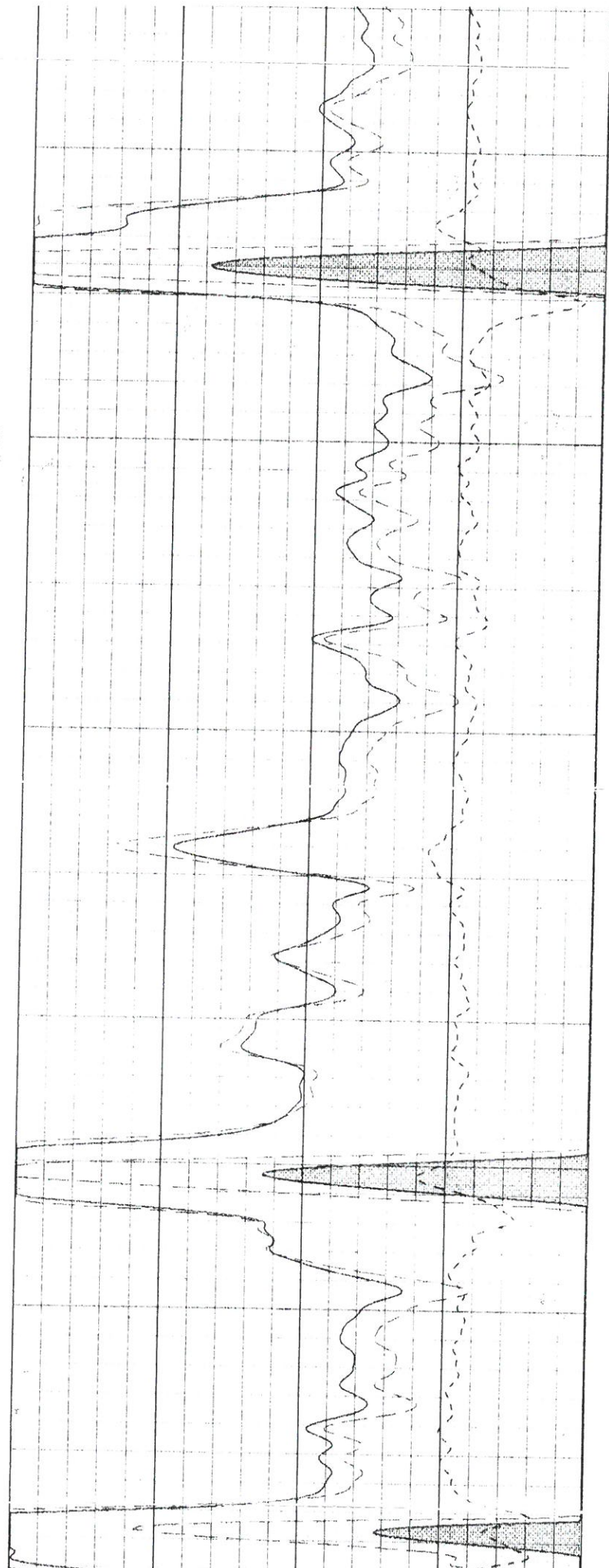




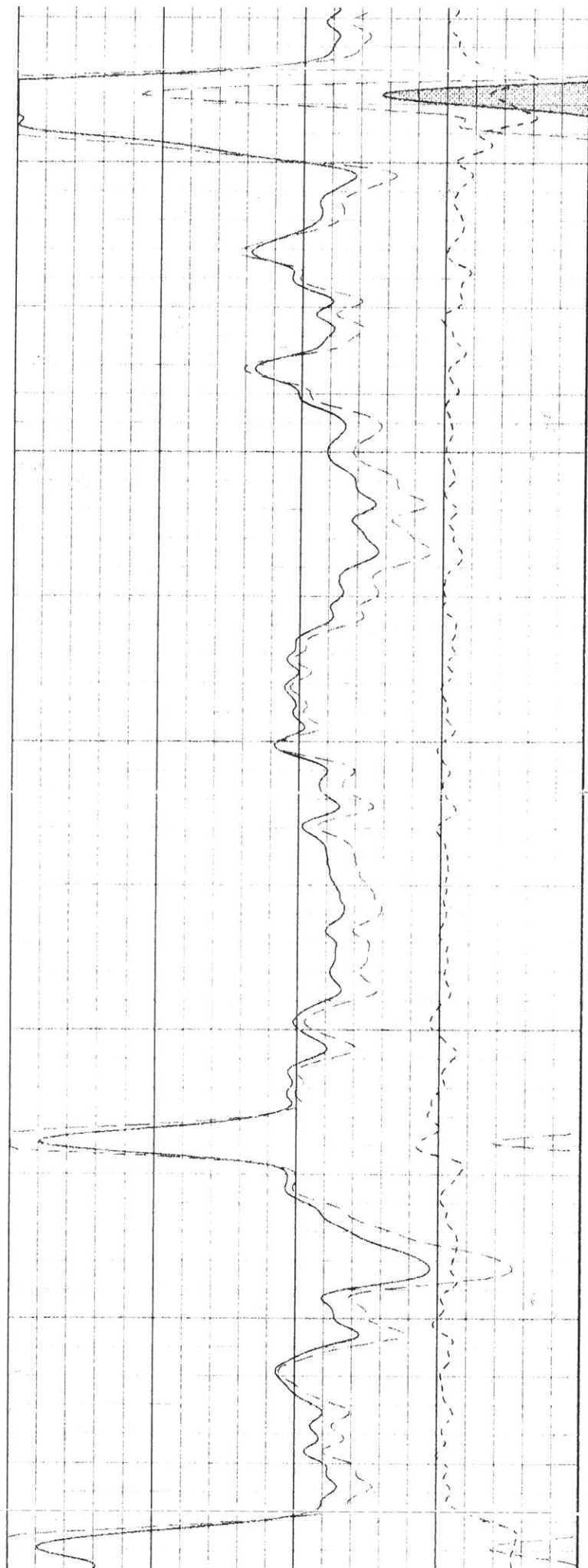
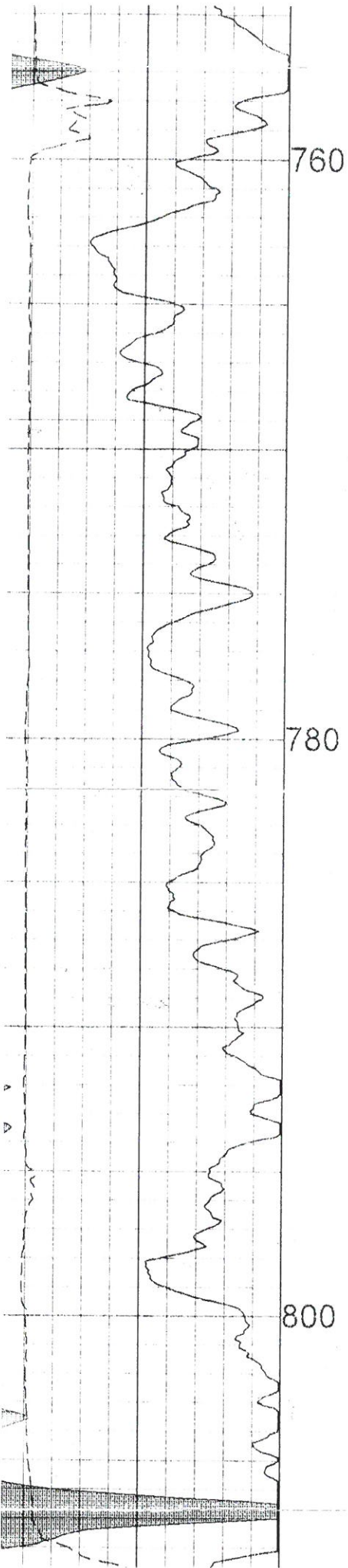


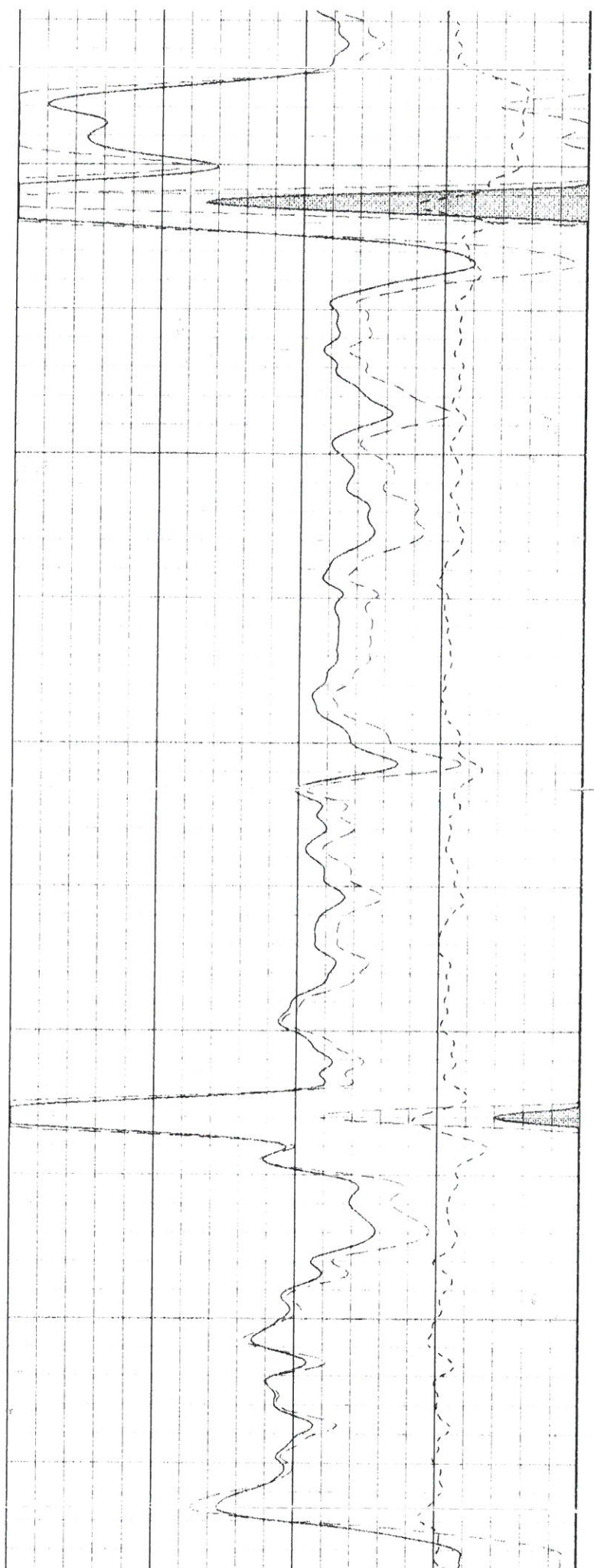
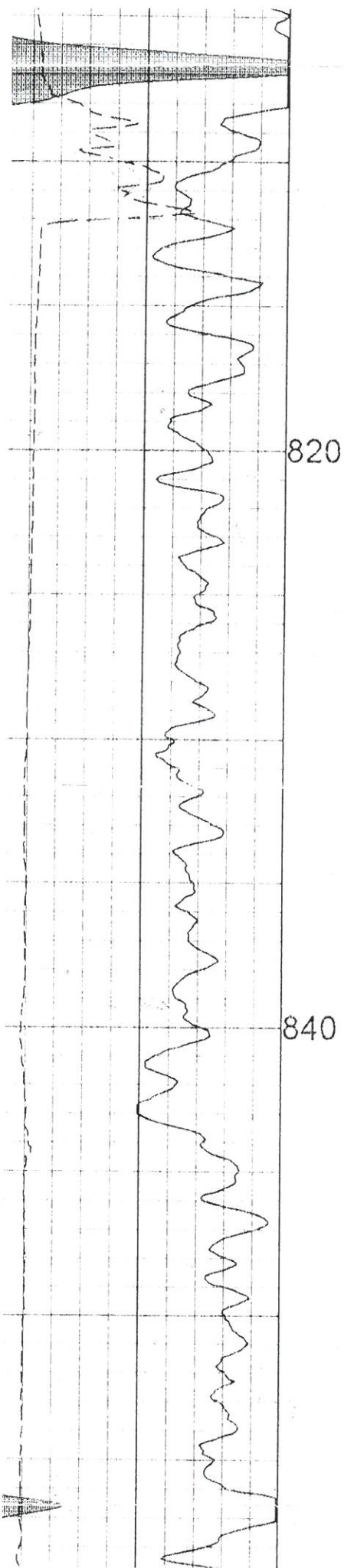
720

740

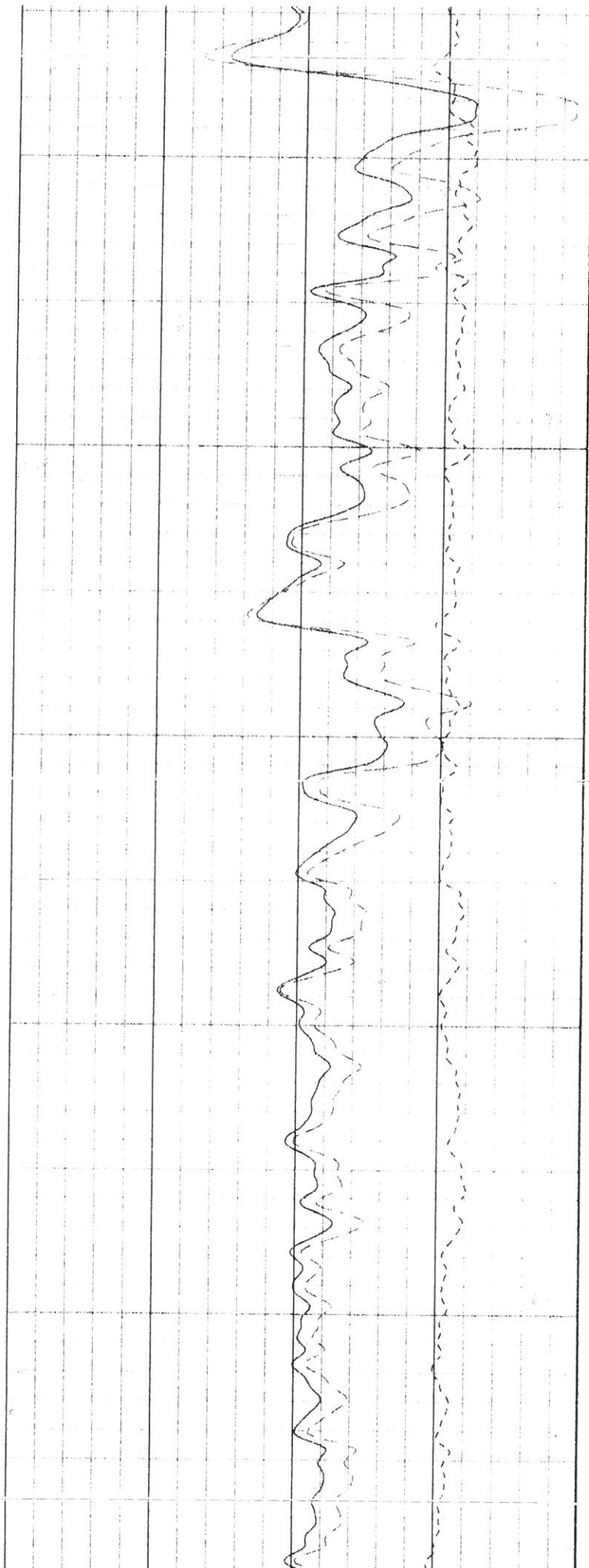
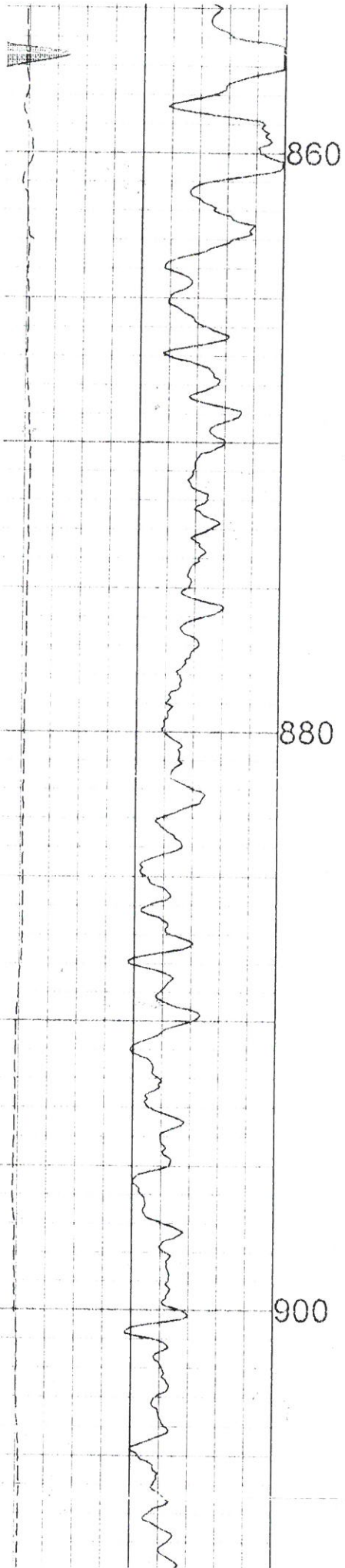


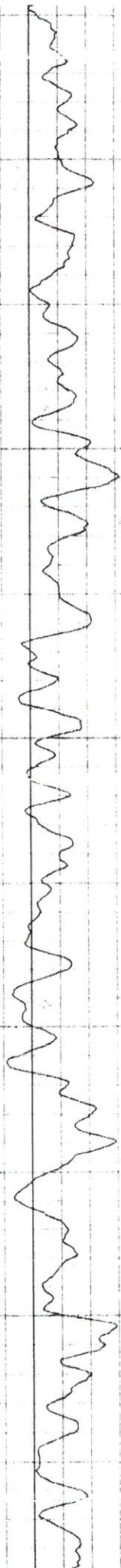






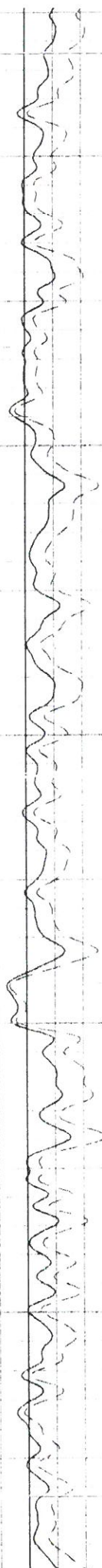




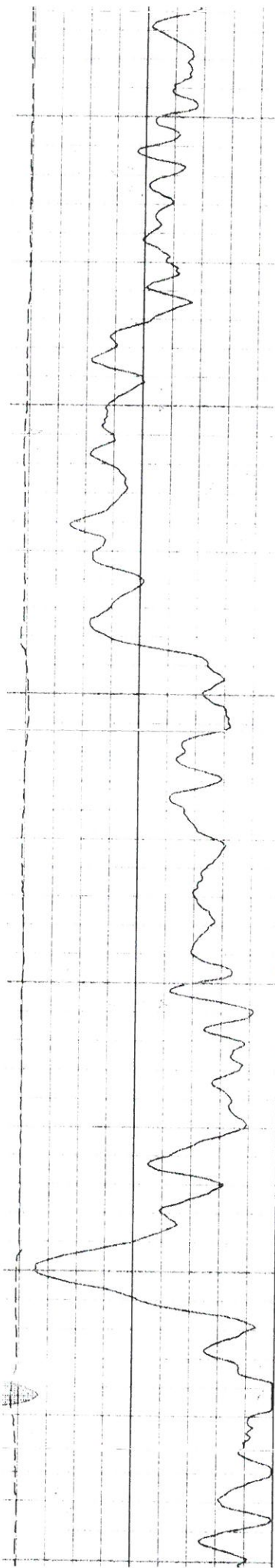


920

940



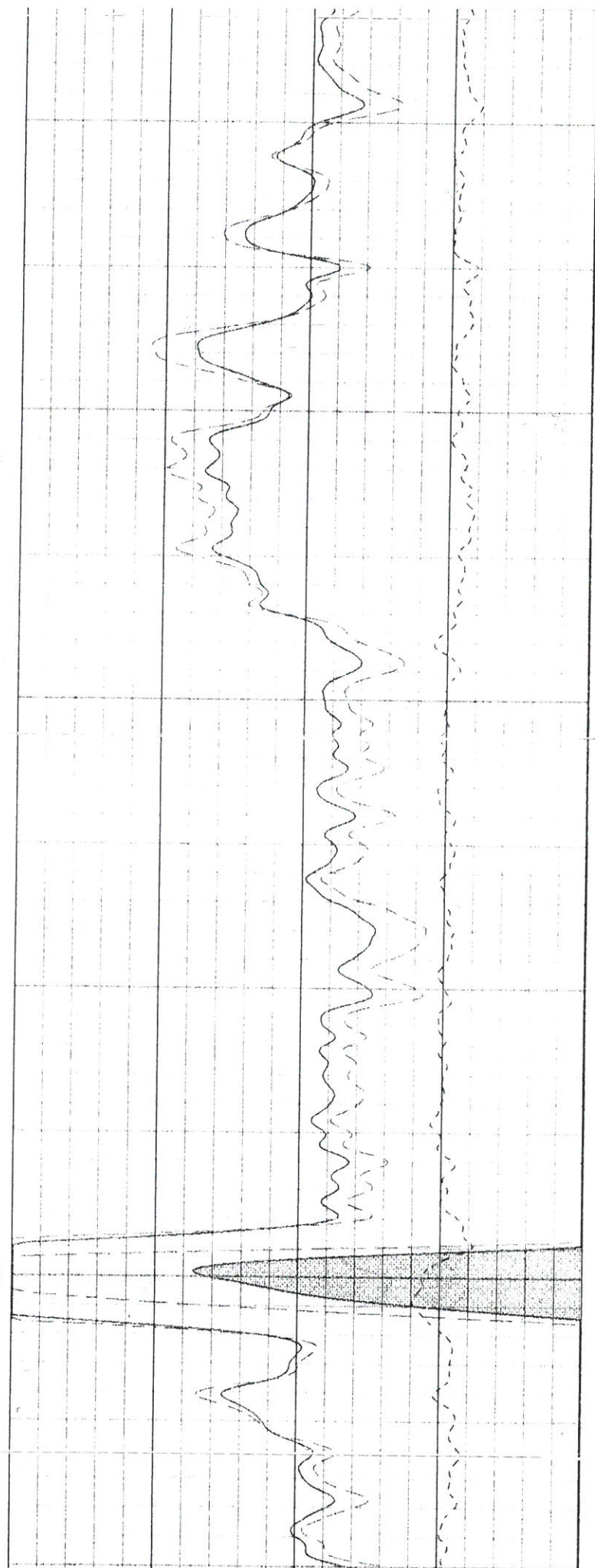


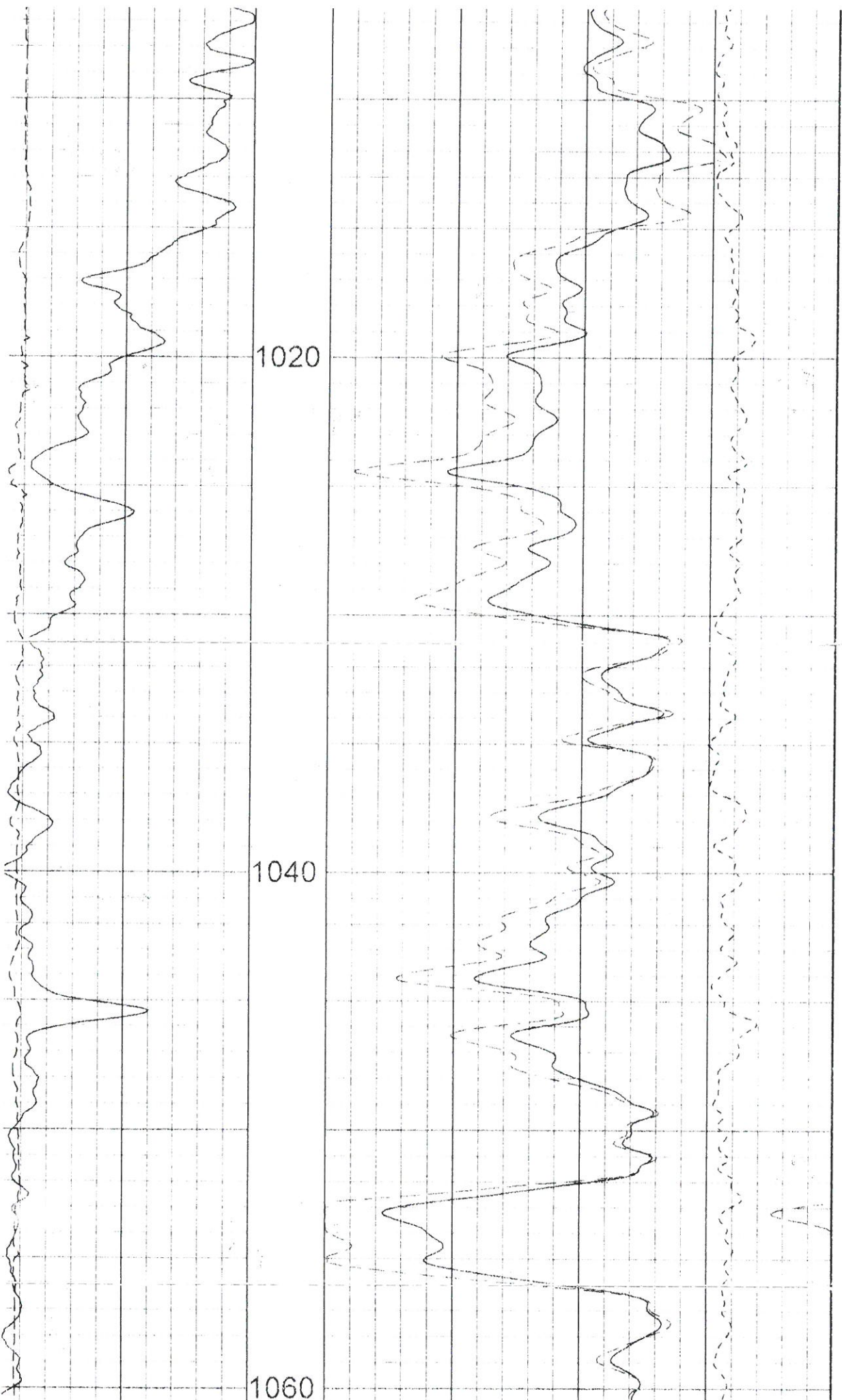


960

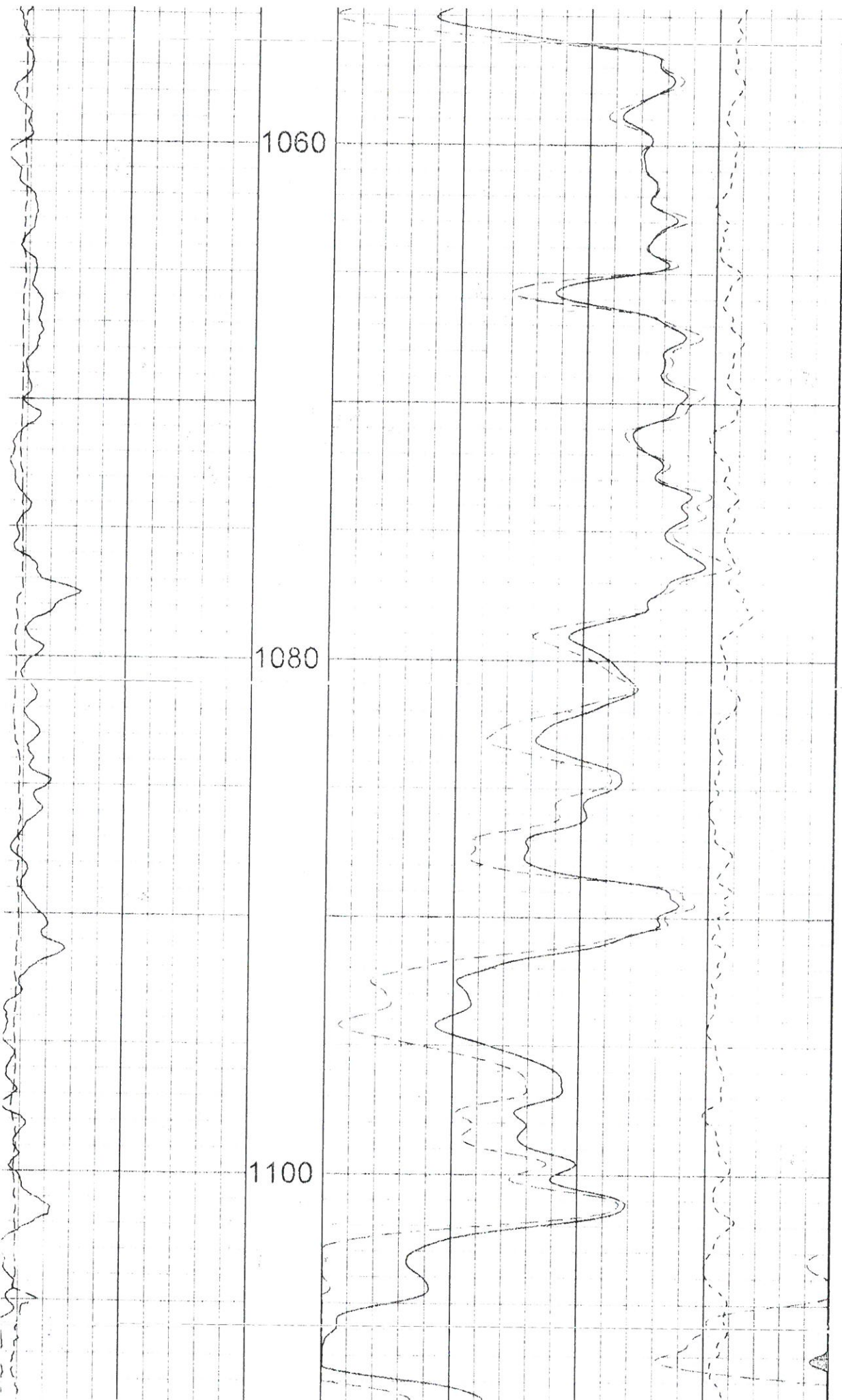
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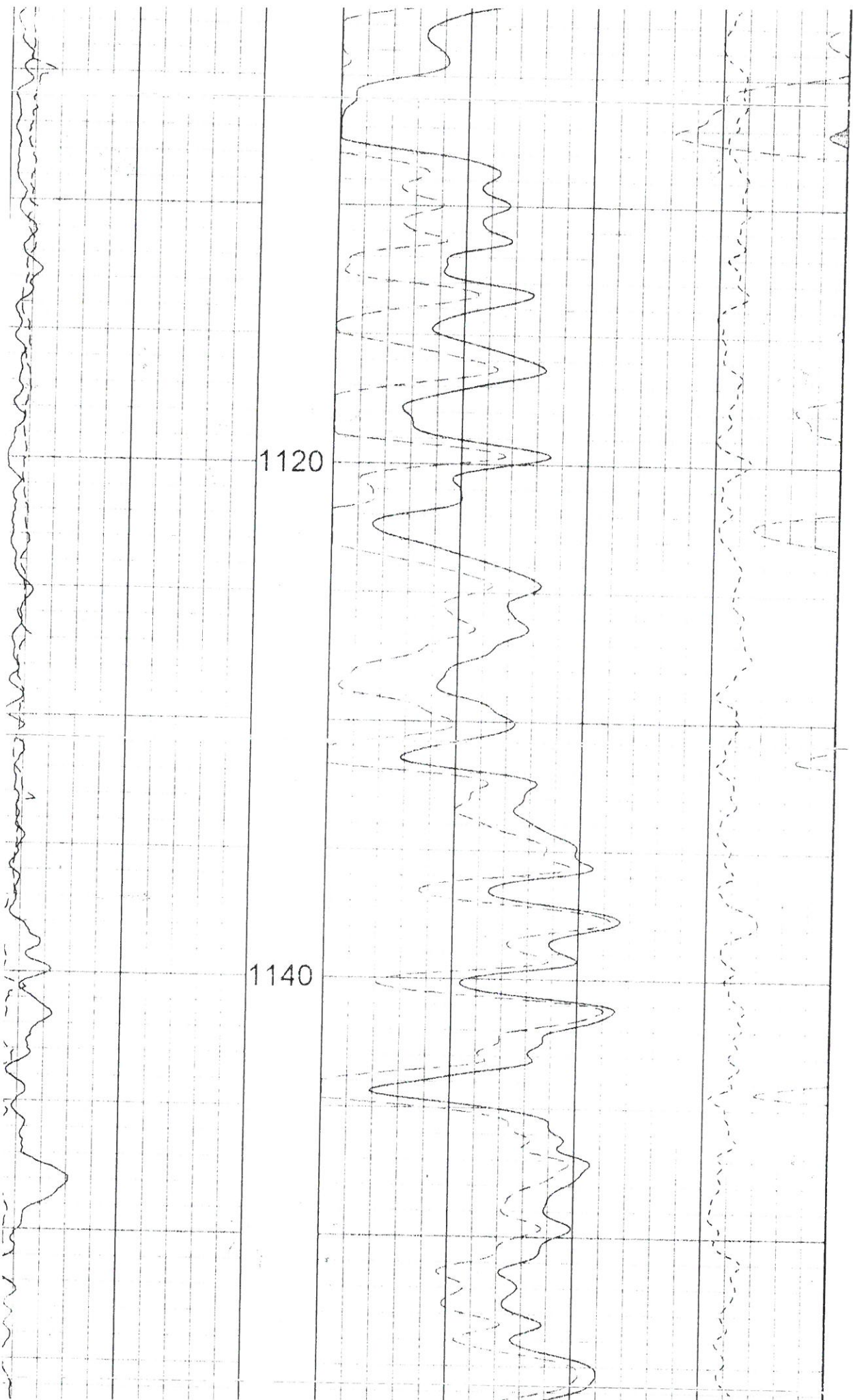
1000



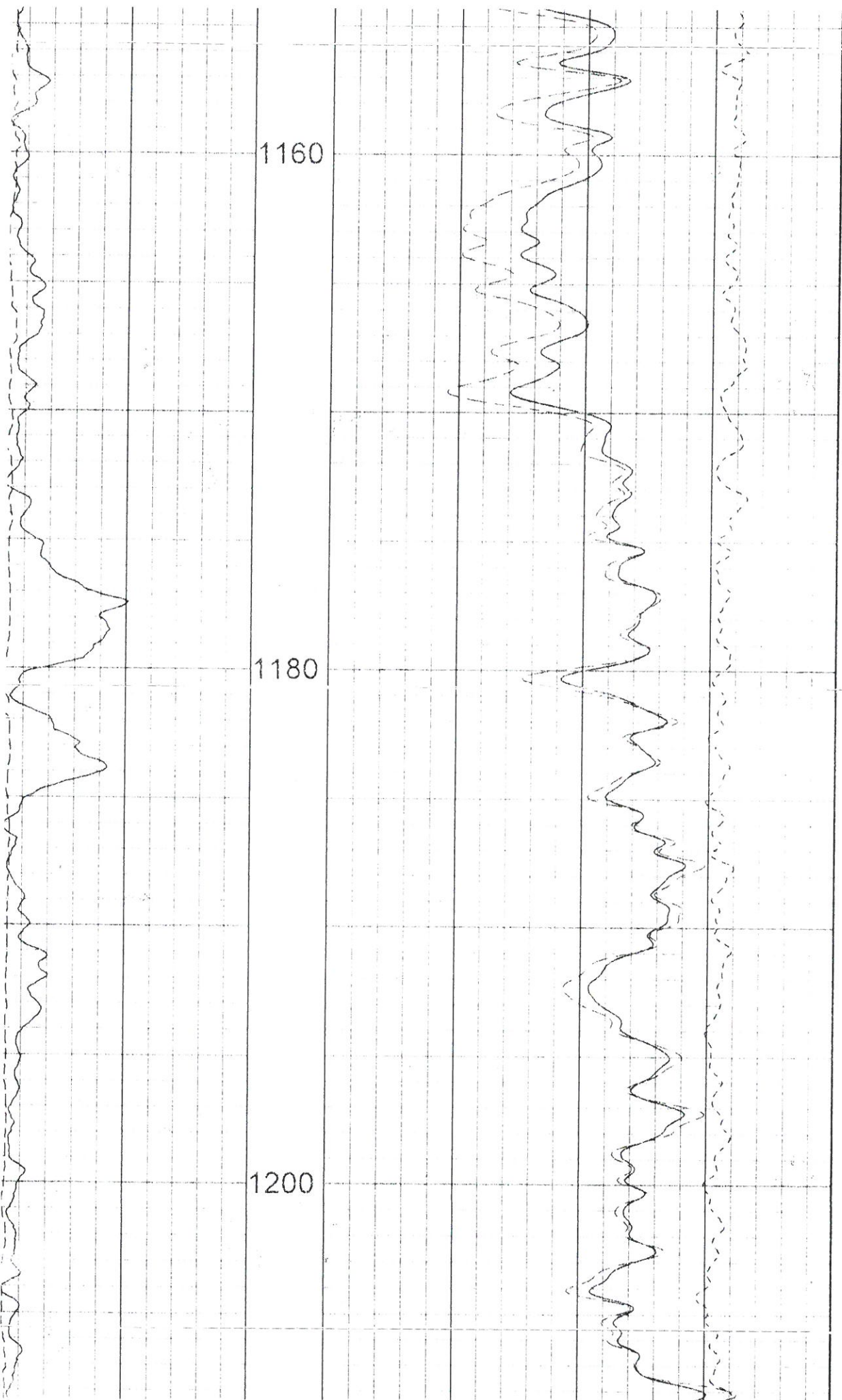


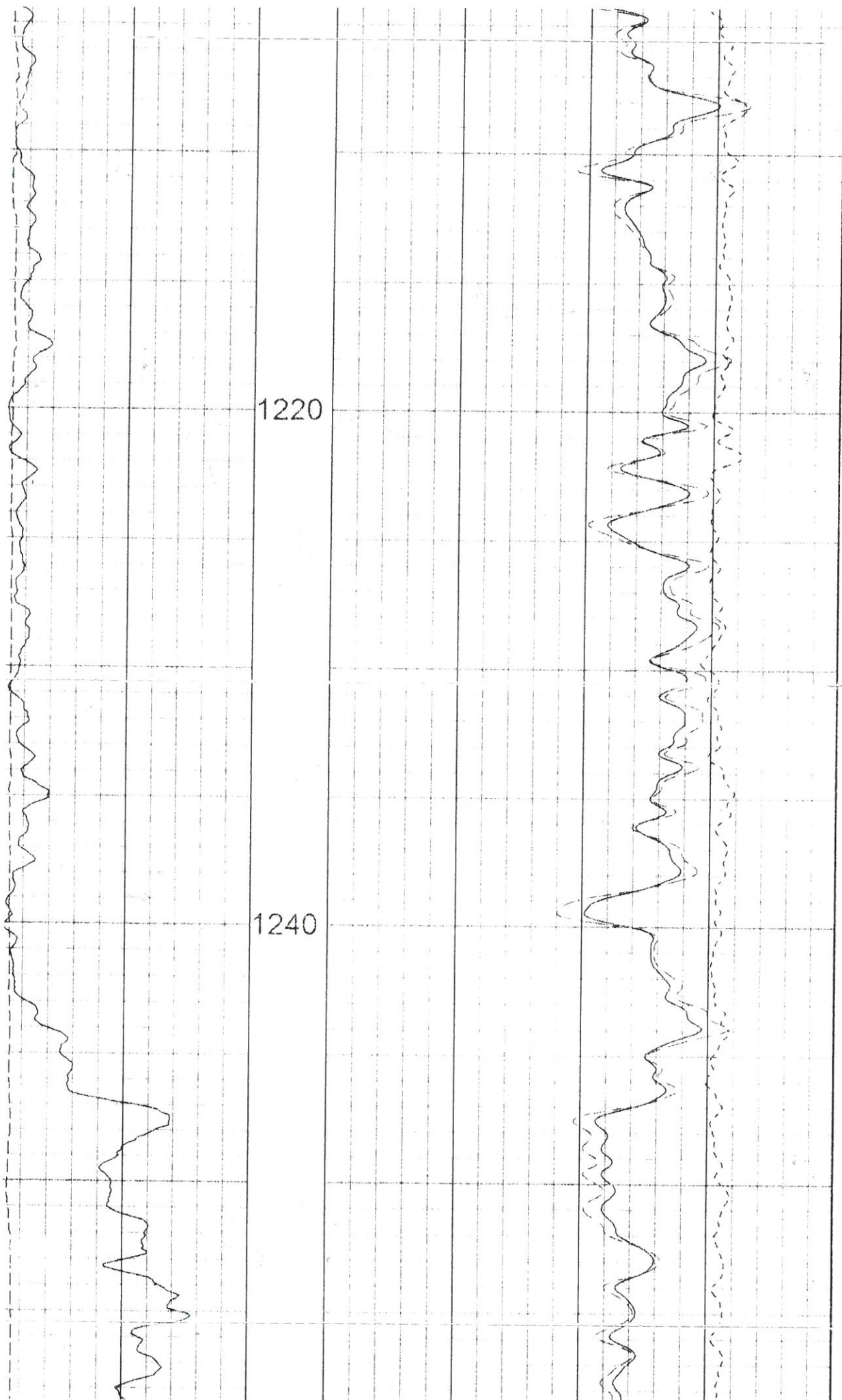




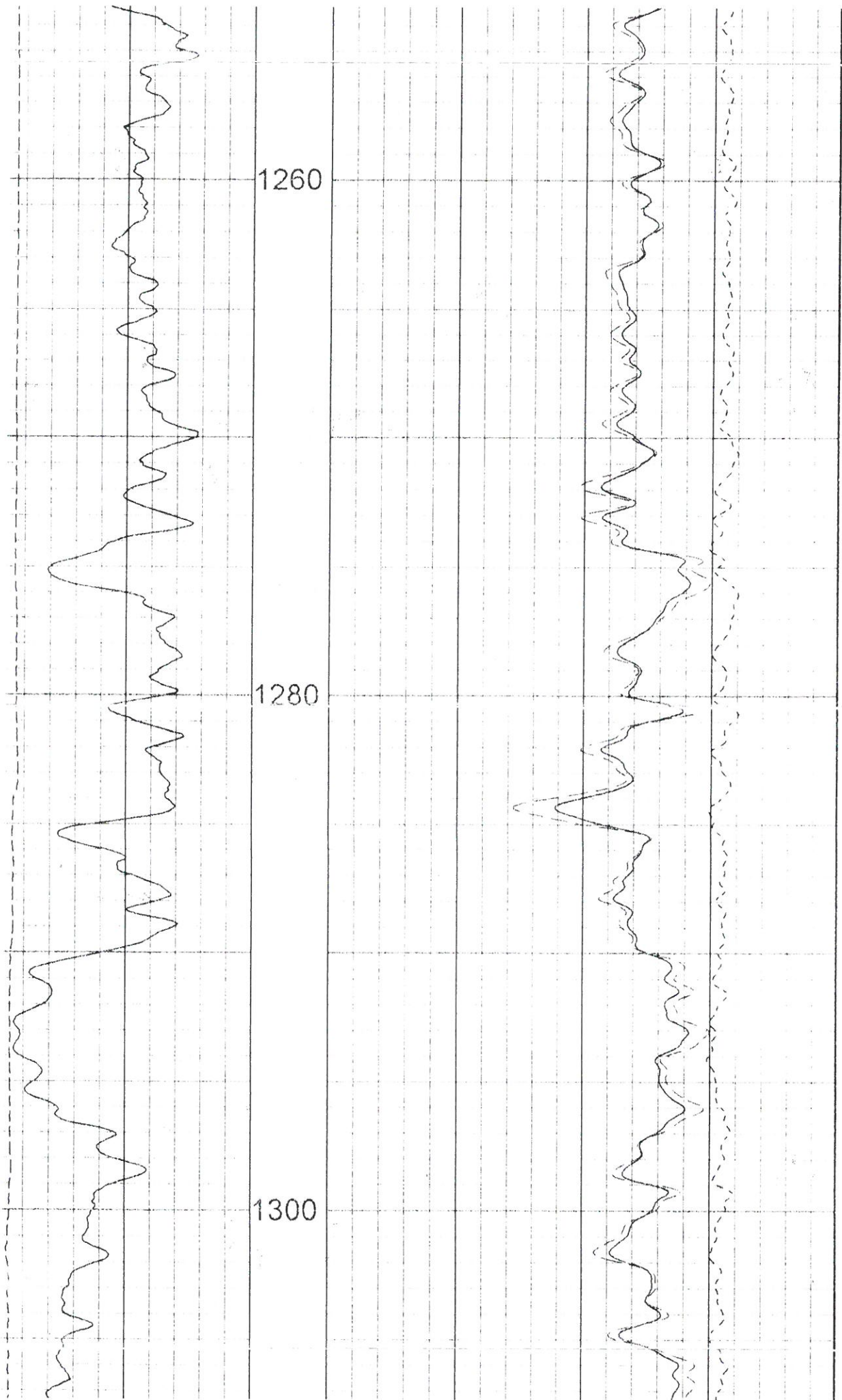


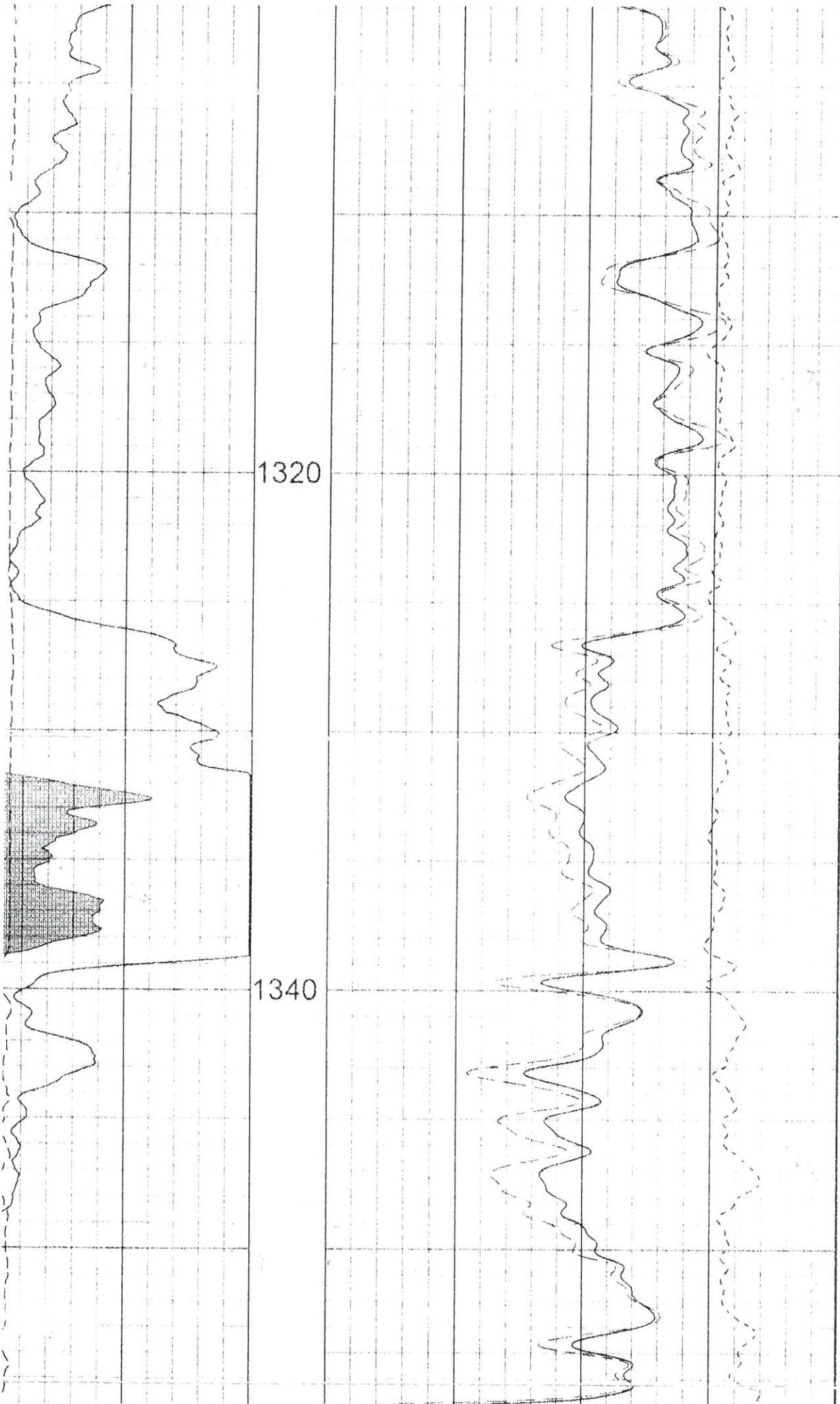














0	API-GR	150	2	G/CC	3
	GAMMA			DEN(CDL)	
3	INCH	16	30	PERCENT	-10
	CALIPERL			POR(DEN)	
				-0.25	G/CC 0.25
					COMP
		FEET			

25 INCH LOG, HIGH RES. DENSITY LASSMAN #122 04/30/08

#### LOG PARAMETERS

MATRIX DENSITY 2.71

NEUTRON MATRIX LIMESTONE

MATRIX DELTA T 49

MAGNETIC DECL 0

ELECT CUTOFF 3777

BIT SIZE 6.75

PRESENTATION NAME/DATE = CWS CHANUTE CDL 25.0 03/01/2008

VERSION 3.64F1



# DIFFERENTIAL TEMPERATURE

## LOG

LASSMAN #122

COMPANY: BIRK PETROLEUM

WELL: LASSMAN #122

FIELD: HUMBOLDT

COUNTRY: ALLEN

STATE: KANSAS

LOCATION: 39°51'N 100°50'W - SE SW SW SW

SECTION: 8

TO: MSH-P

DATE: 04/30/08

LOG MEASURED FROM: GL

DATE: 04/30/08

LOG MEASURED FROM: GL

DATE: 04/30/08

DATE: 04/30/08

DATE: 04/30/08

DATE: 04/30/08

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DATE: 04/30/08

5 INCH LOG, DELTA TEMP LASSMAN #122 04/30/08

### LOG PARAMETERS

MATRIX DENSITY: 2.71

FORMATION MATRIX: LIMESTONE

MATRIX DELTA: 1.46

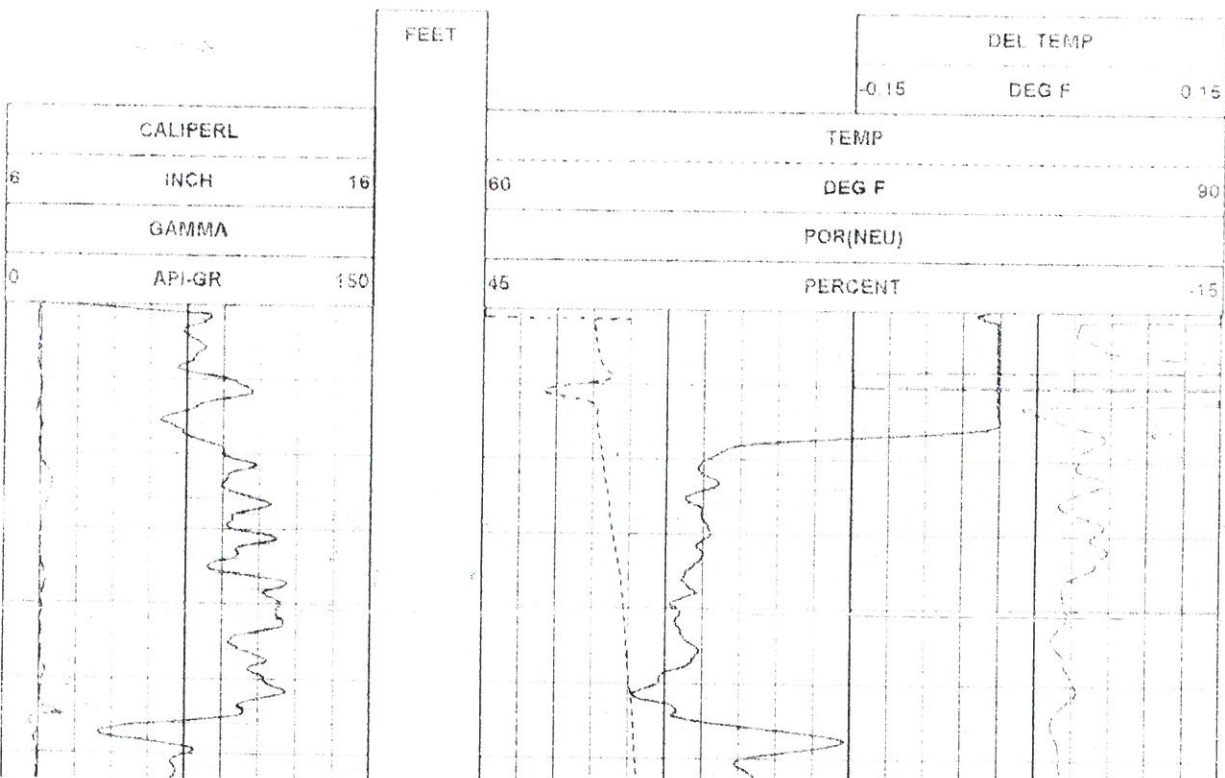
MAGNETIC DECI: 0

ELECT. CUTOFF: 3777

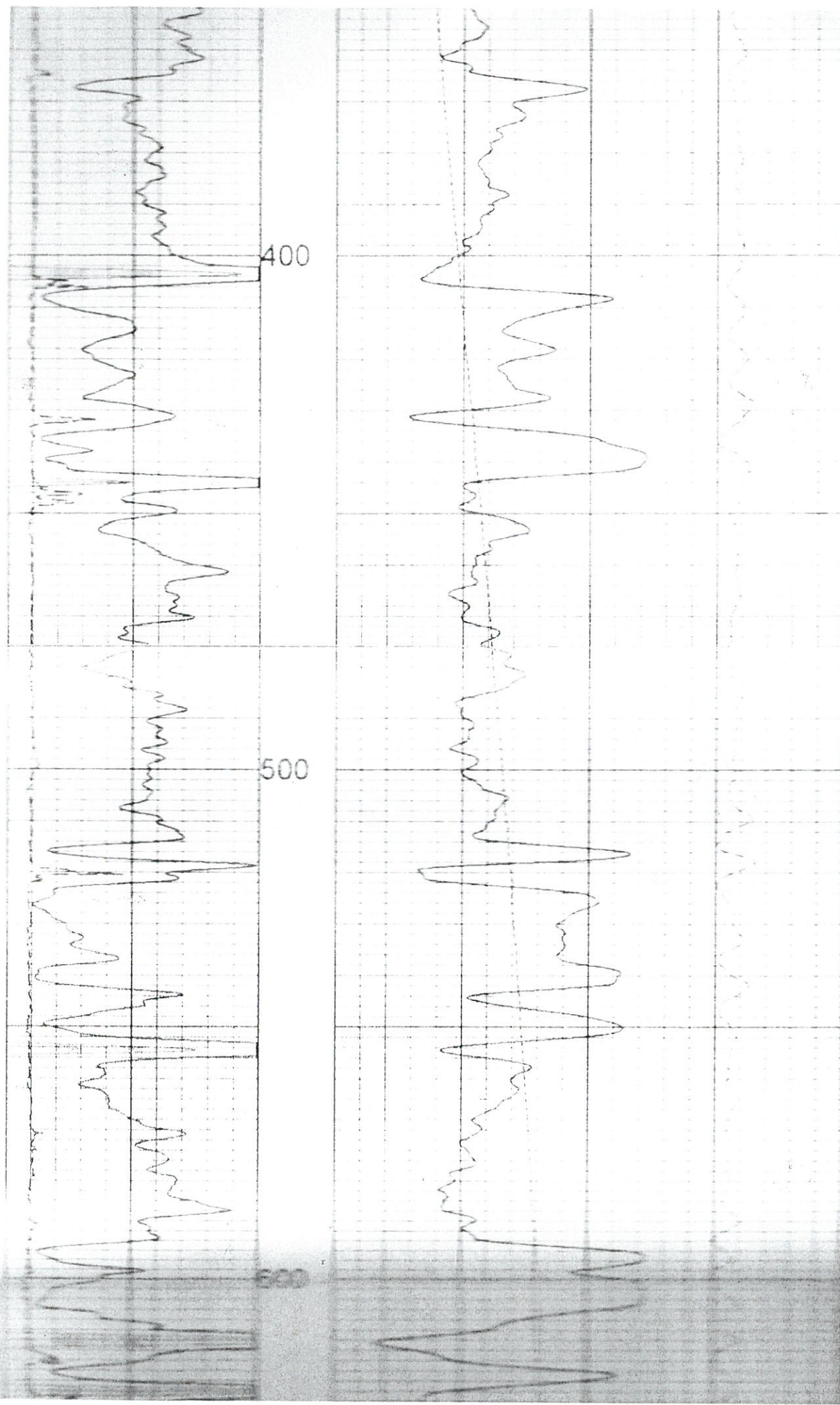
BIT SIZE: 5 1/8

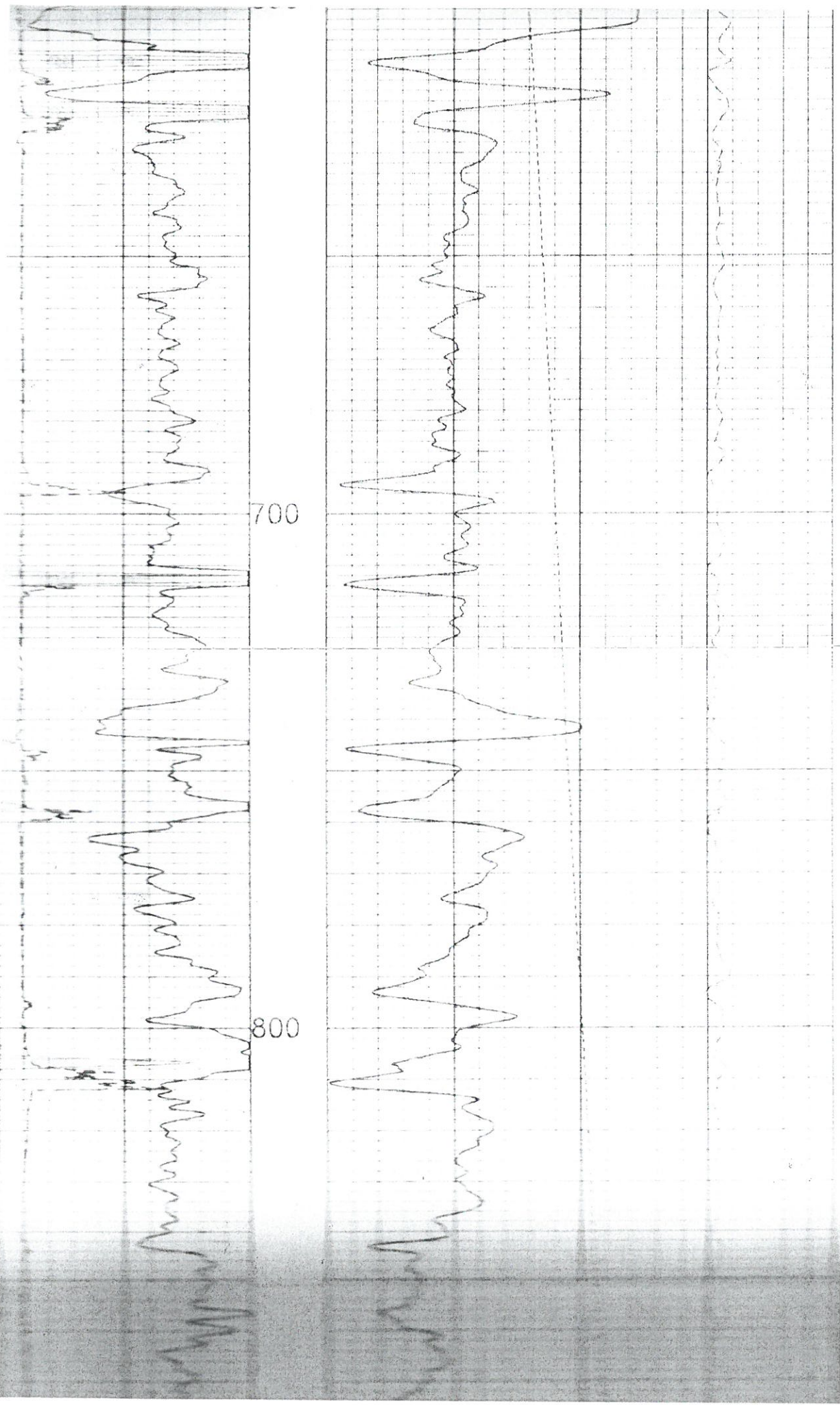
PRESENTATION NAME/DATE: LWS CHANUTE TEMP 5.0 03/25/2008

VERSION: 1.3.0.0

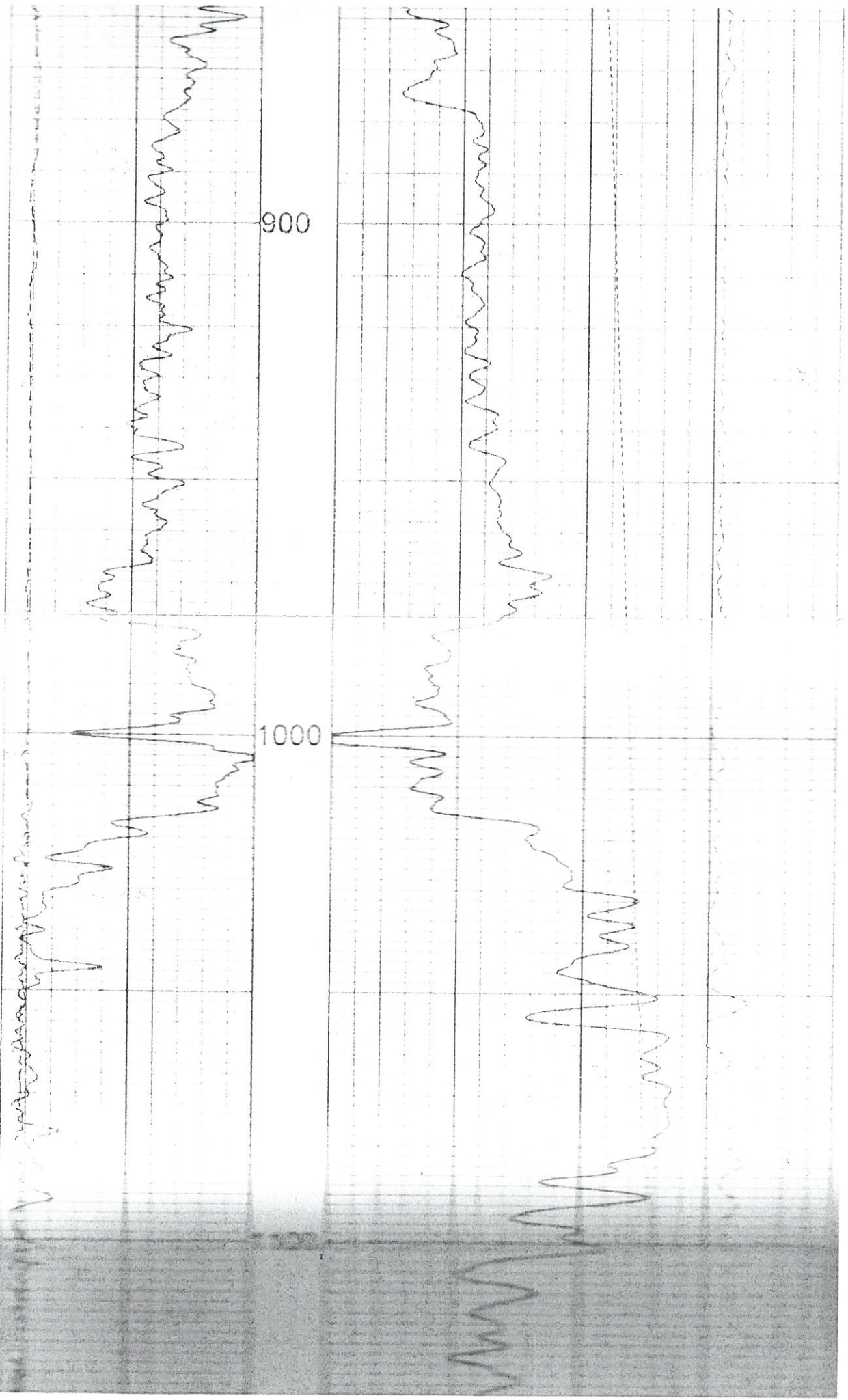


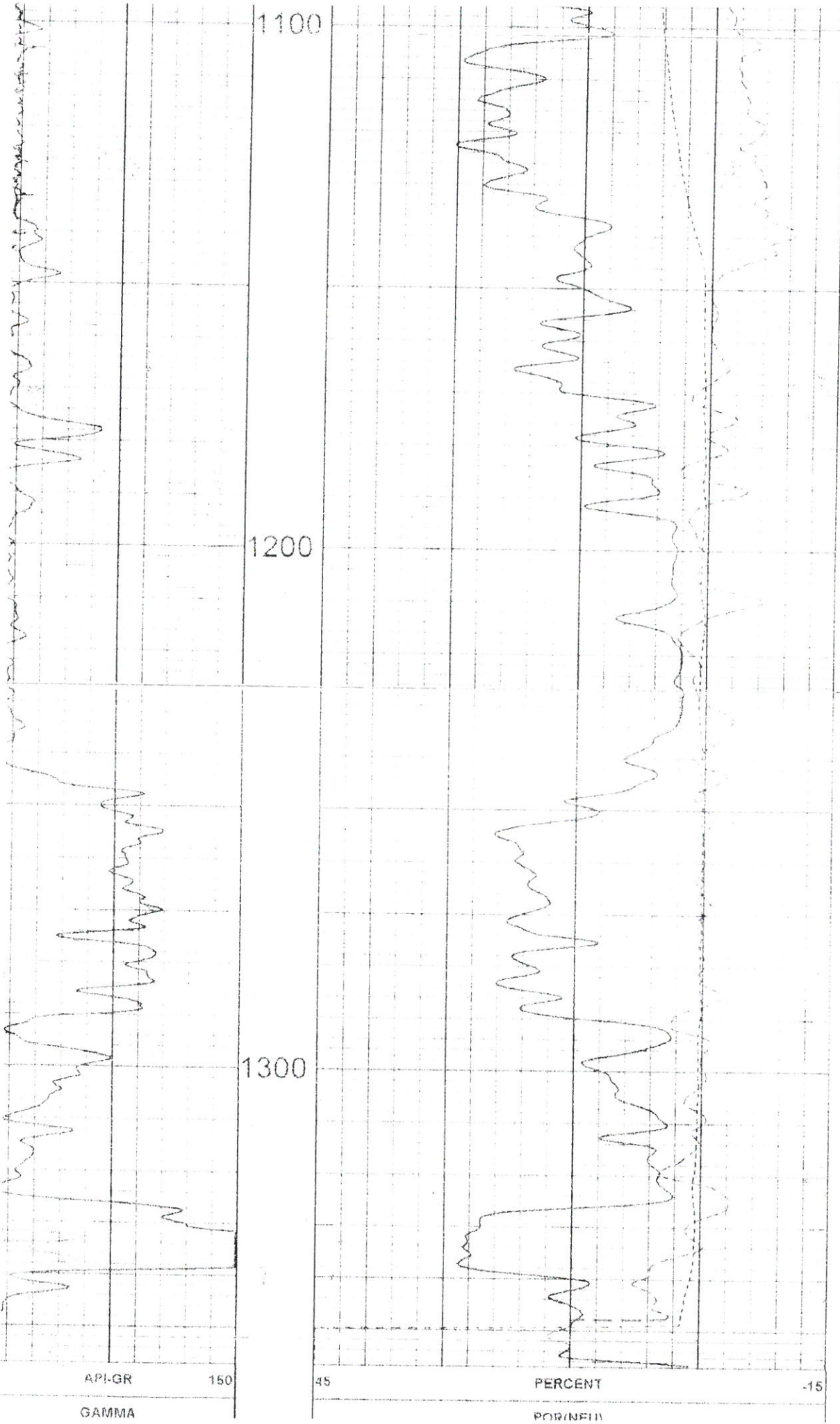
















# DIFFERENTIAL TEMPERATURE

LOG

LASSMAN #122

OTHER SERVICES

NCL

DIC

Q TEMP

DATE

TIME

WELL

DEPTH

LOG

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5 INCH LOG DELTA TEMP LASSMAN #122 04/30/08

## LOG PARAMETERS

MATRIX DENSITY 2.75

MATRIX MATRIX LIMESTONE

MATRIX DELTA T 49

MAGNETIC DELTA T

ELECTRICITY 377

BIT SIZE 9 7/8

PRESENTATION NAME DATE 03/25/2008

VERSION 3.04F1

FEET

DEL TEMP

-0.15

DEG F

0.15

CALIPERL

TEMP

INCH

16

60

DEG F

90

GAMMA

POR(NEU)

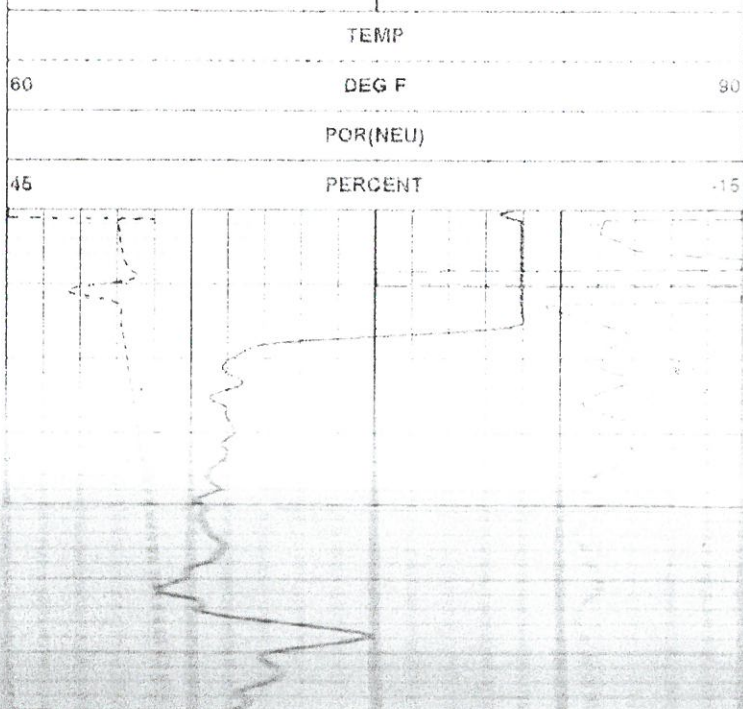
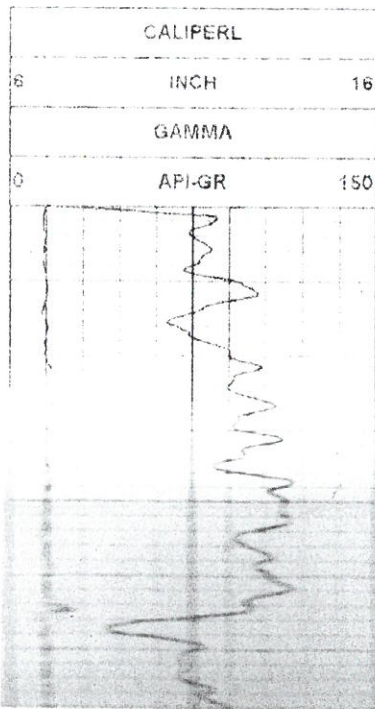
API-GR

150

45

PERCENT

15



9	API-GR	150
	GAMMA	
8	INCH	16
	CALIPERL	

FEET

45	PERCENT	
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60	DEG F	
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-0.15	DEG F	0.1
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5 INCH LOG, DELTA TEMP LASSMAN #122 04/30/08

# LOG PARAMETERS

MATRIX DENSITY 2.71

NEUTRON MATRIX LIMESTONE

MATRIX DELTA T 49

MAGNETIC DECL 10

ELECT CUTOFF 3777

BIT SIZE 6.75

PRESENTATION NAME/DATE CWS CHANUTE TEMP 5.0 03/25/2008

VERSION 3.64F1