

Tucker

WIRELINE SERVICES

MICRO
LOG

File No. : OKC-55486
Company : BRUNGARDT OIL & LEASING INC.
Well : C. BEERY #5
Field : EMMERAN NE
County : ELLIS
State : KANSAS
Country : USA

Location : API# 15-051-26049
670' FNL & 1810' FEL
NW SE NW NE

Sect : 34 Twp : 12S Rge : 16W

Recorded By : T. MONTGOMERY
Witnessed By : C. BRUNGARDT

Date : DEC 8 2010
Run No. : 1

Permanent Datum : GL
Drilling Measured From : KB
Log Measured From : KB
Above Permanent Datum : 5.00 FT

Depth--Driller : 3635.0 FT
Depth--Logger : 3633.0 FT
Bottom Log Interval : 3610.0 FT
Top Log Interval : 2950.0 FT

Casing Depth--Driller : 226.0 FT
Casing Depth--Logger : 226.0 FT
Casing Diameter : 8.750 IN

Bit Size : 7.875 IN
Unit No. : 125
Location : OKLAHOMA CITY

Elevations :
KB : 2077.00 FT
DF : 2076.00 FT
GL : 2072.00 FT

Additional Services

MLT
PIT
XYT

The customer is hereby warned that by providing the log data herein, T. W. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. W. S. does not guarantee or warrant either expressly or impliedly, the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by T. W. S. personnel. Any interpretation, conversion or recommendation is not part of the consideration for the agreement between the parties and is not part of any part of the charge by T. W. S. for its services. Any user of the log data is warned that said user is not entitled to rely on interpretations, conversions or recommendations as aforesaid.

Run Number 1

Depth To Fluid 0.0 FT
Fluid Type In Hole : WBM
Density : 8.900 LDS/GAL
Viscosity : 55.000 SEC/QT
pH : 11.000 KKPM
Fluid Loss : 7.400 CC
Salinity : 0.000

RM Source : MEASURED
RM : 0.800 OHMM at 58 F
RM at BHT : 0.530 OHMM at 92 F

RMF Source : CALCULATED
RMF : 0.600 OHMM at 58 F
RMF at BHT : 0.400 OHMM at 92 F

RMC Source : CALCULATED
RMC : 0.800 OHMM at 58 F
RMC at BHT : 0.530 OHMM at 92 F

RMC :	0.920	OHMM at	58	F
RMC at BHT :	0.610	OHMM at	92	F
Max Recorded Temp. :			92	F
Time Circulation Stopped :				
Operating Rig Time, Hrs. :			3.0	

- Source Serial Numbers -

Gamma	CSV-C2
Neutron	N-1043

- Sonde Serial Numbers -

GRTB	GRT-BC-43
CNT	CNP-AA-106
LDT	LDP-BA-20
MST	MST-CA-021
PIT	PIT-AB-14

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
8.750	32.00	226.00

- Comments -

ALL PRESENTATIONS AS PER CLIENT REQUEST.

GRT, CNT, LDT, MST, PIT RAN IN COMBINATION.
 2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.
 5.50" PRODUCTION CASING USED TO CALCULATE AHV.
 NO STANDOFF DEPLOYED ON PIT TOOL.
 CALIPERS ORIENTED ON X-Y AXIS.
 PHIN IS CALIPER CORECTED.
 MLT, CNT AND LDT PRESENTED FROM TD TO 2950' AS PER CLIENT REQUEST.
 GR, AND PIT PRESENTED FROM TD TO SURFACE AS PER CLIENT REQUEST.

GRP - GRP
 CNT - PHIN, CLMIN
 LDT - LDEN, PECL, LCOR, PORL, CLLDIN
 MST - CLMRIN, MSFI, MSFN
 PIT - ILD, ILM, CIRD, SFLAEC, SPU

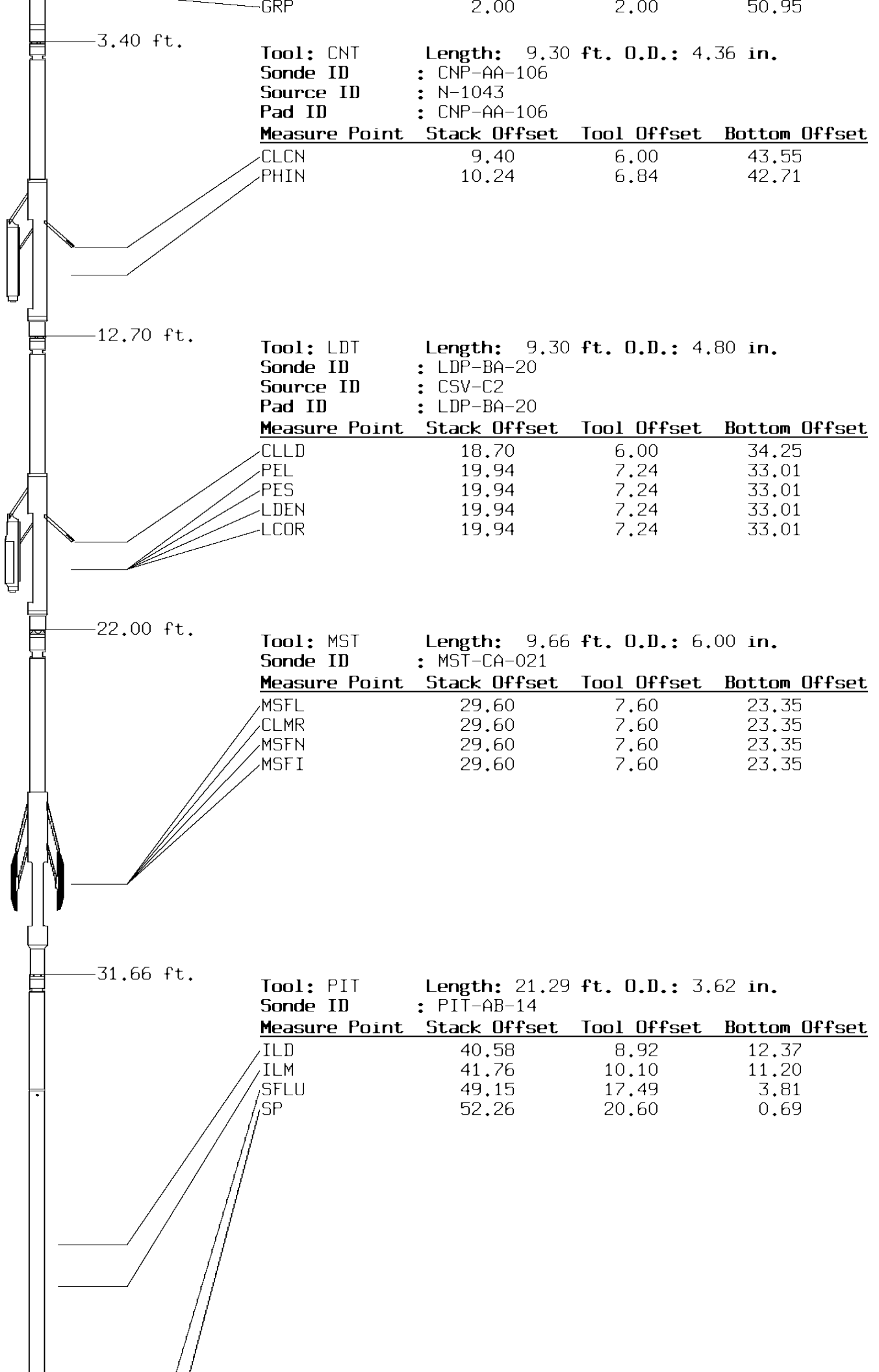
THANK YOU FOR USING TUCKER ENERGY SERVICES!
 OPERATORS.
 C.VANCE
 J. RICHARDS

Tool String Schematic

Total Tool Length - 52.95 ft.
 Maximum Outside diameter - 6.00 in.
 Net Weight in Air - 943.00 lbs.



Tool: GRTB	Length: 3.40 ft.	O.D.: 3.60 in.
Sonde ID	: GRT-BC-43	
Measure Point	Stack Offset	Tool Offset
GRP	3.00	3.00
		50.95





TENSION LBS	
10000	0

BIT SIZE INCHES (IN)	
6	16

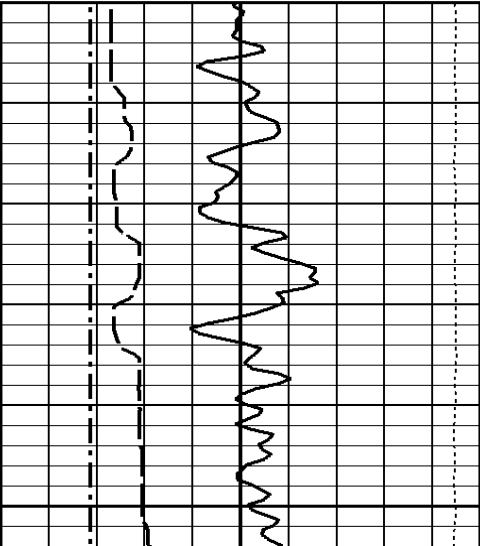
GAMMA RAY API UNITS	
150	300
0	150

CALIPER MICRO INCHES (IN)	
16	26
6	16

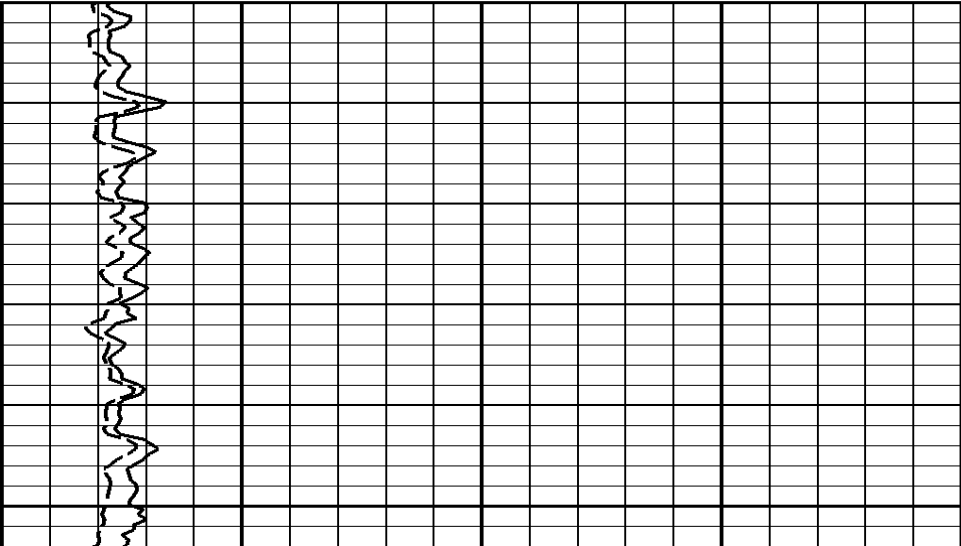
MICRO-INVERSE OHMM	
0	40

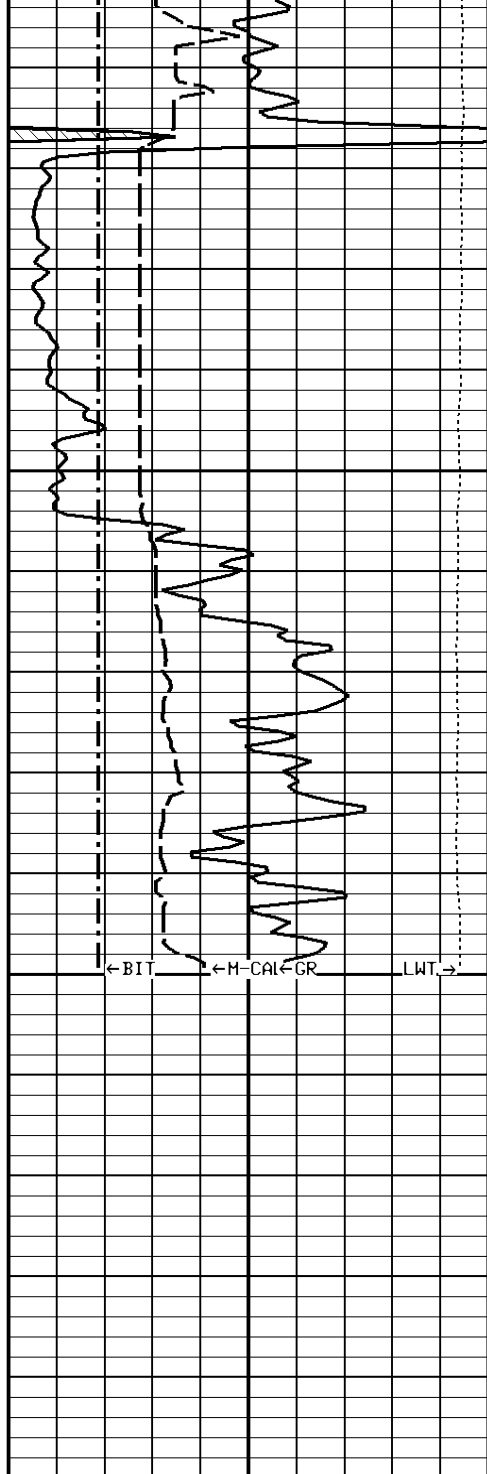
MICRO-NORMAL OHMM	
0	40

1:240 MAIN SECTION



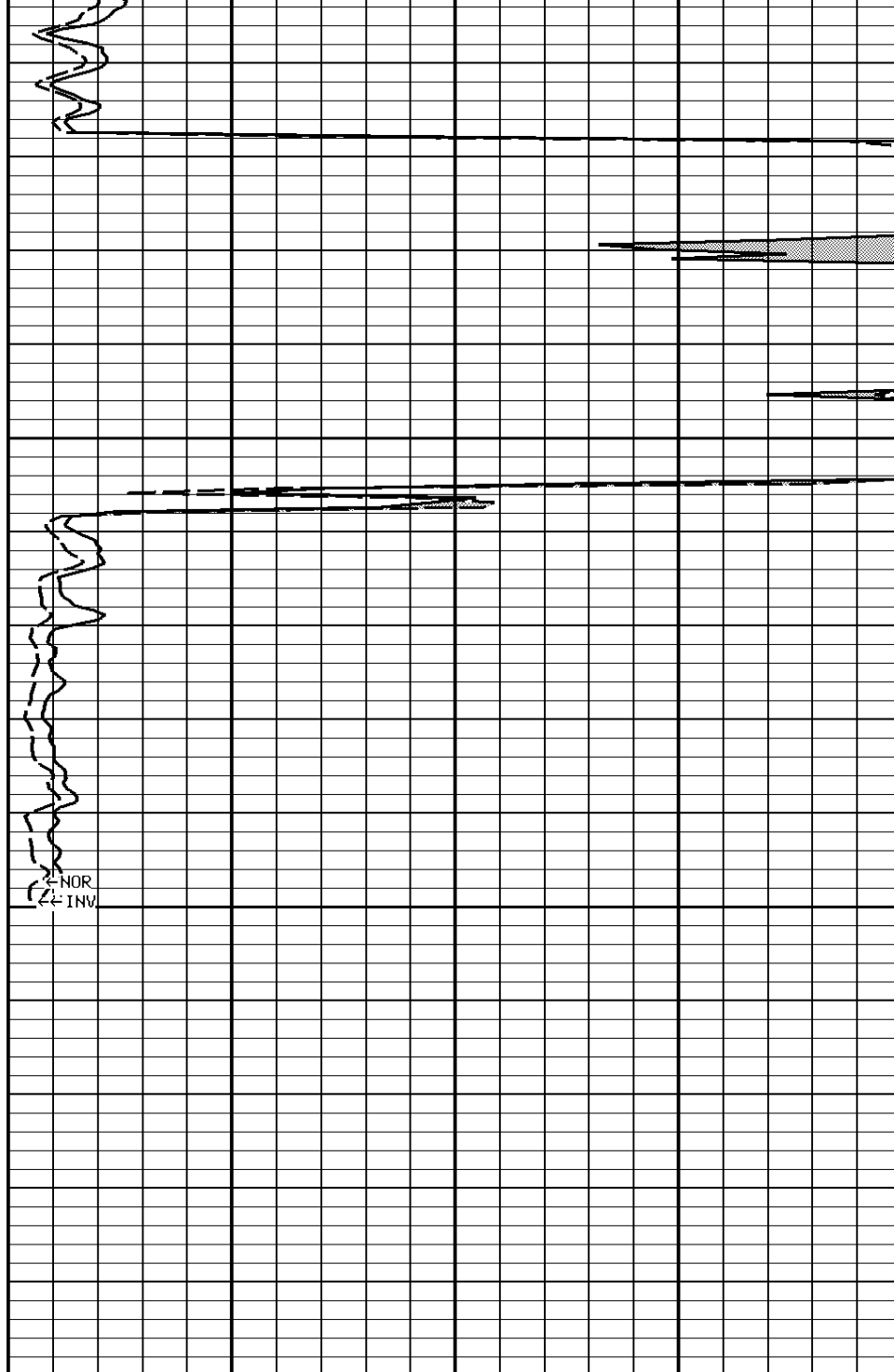
1200





1300

N.R. #105



1:240 MAIN SECTION

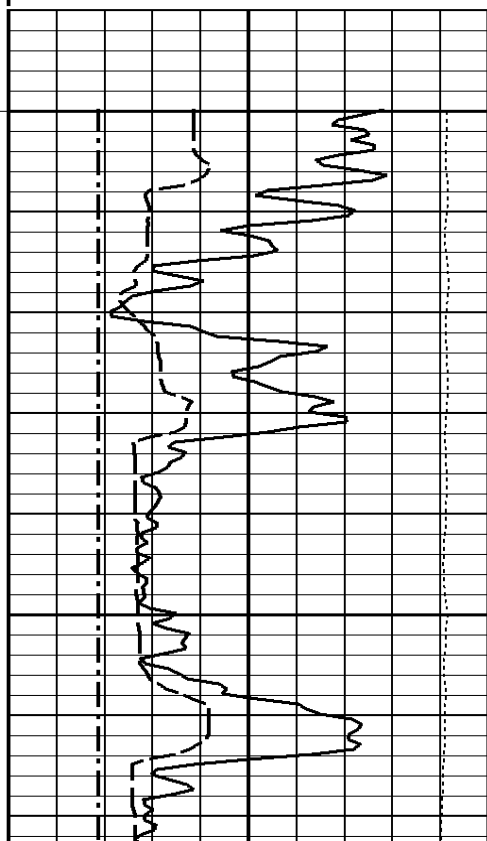
CALIPER MICRO INCHES (IN)	
16	26
6	16
GAMMA RAY API UNITS	
150	300
0	150
BIT SIZE	

MICRO-NORMAL OHMM	
0	40
MICRO-INVERSE OHMM	
0	40

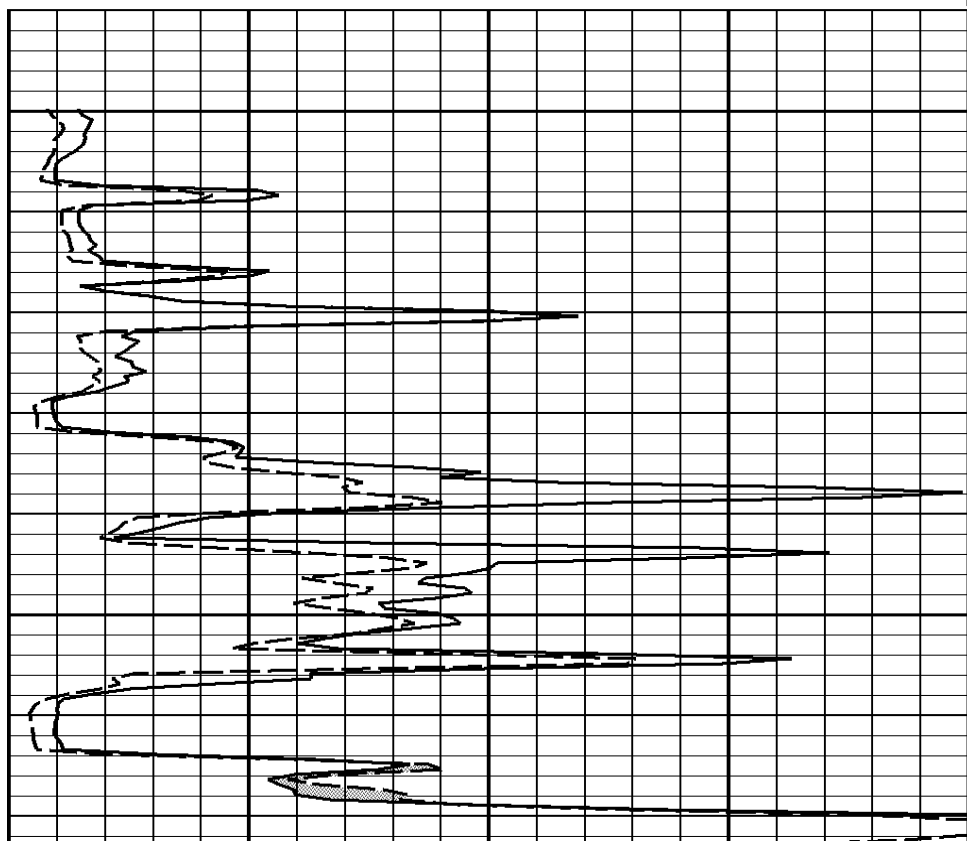
BIT SIZE INCHES (IN)	
6	16
TENSION LBS	
10000	0
TENSION LBS	
10000	0
BIT SIZE INCHES (IN)	
6	16
GAMMA RAY API UNITS	
150	300
0	150
CALIPER MICRO INCHES (IN)	
16	26
6	16

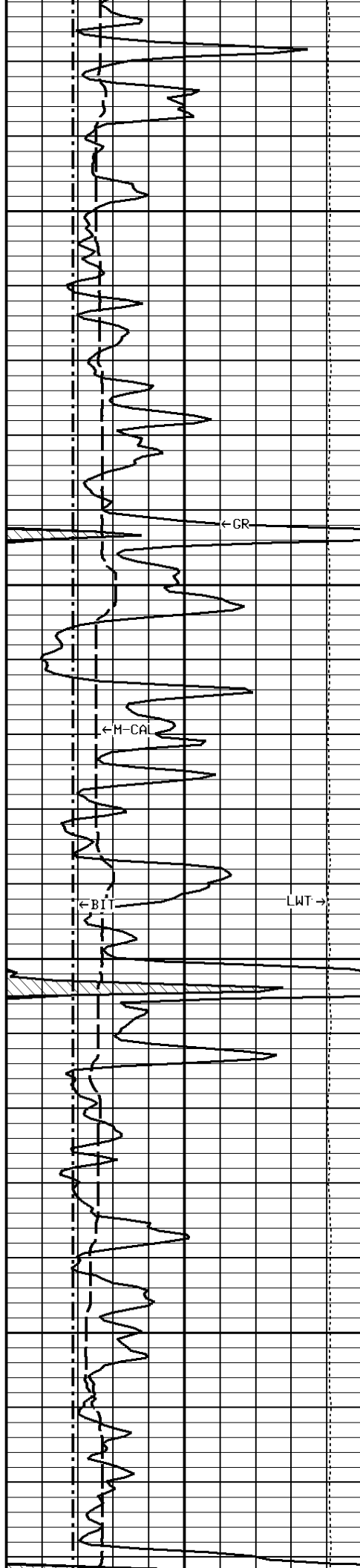
MICRO-INVERSE OHMM	
0	40
MICRO-NORMAL OHMM	
0	40

1:240 MAIN SECTION



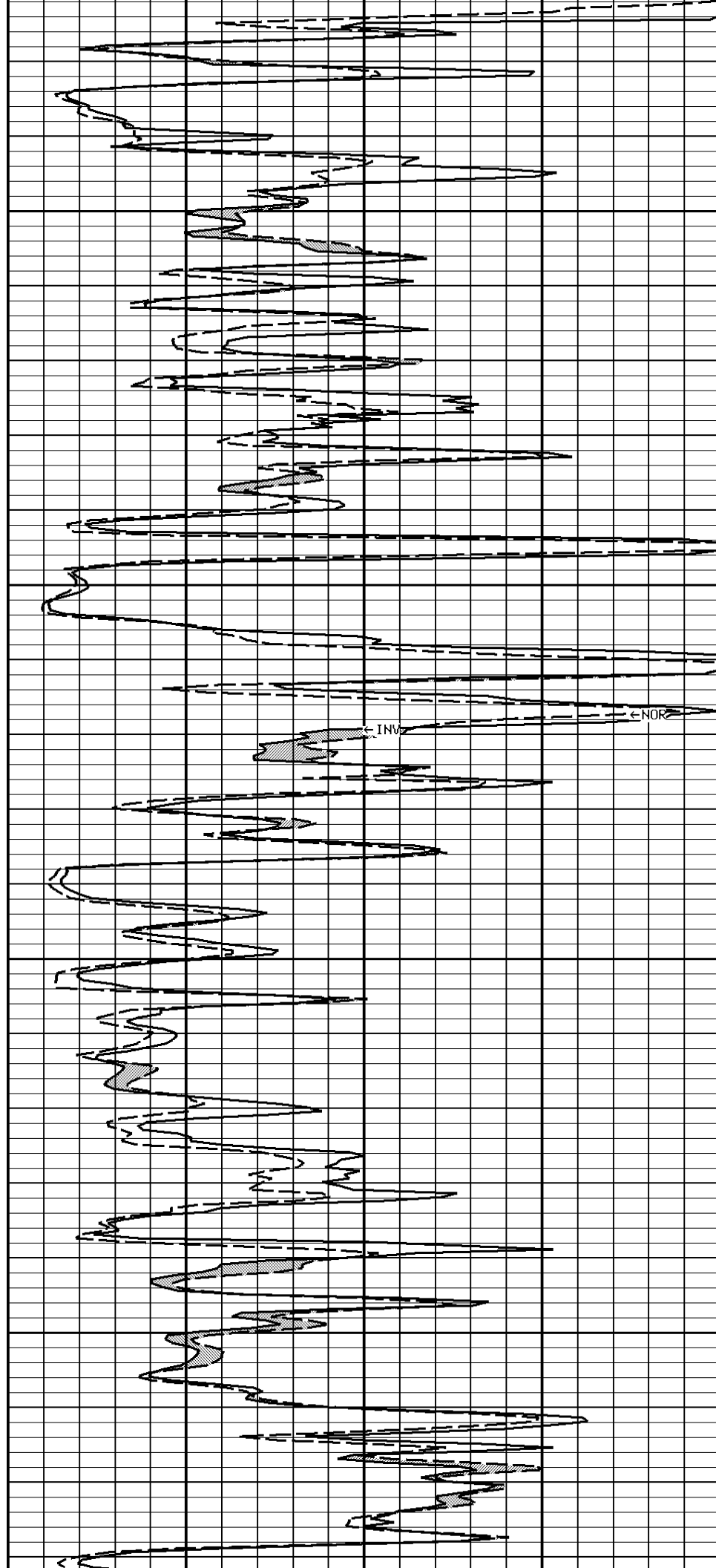
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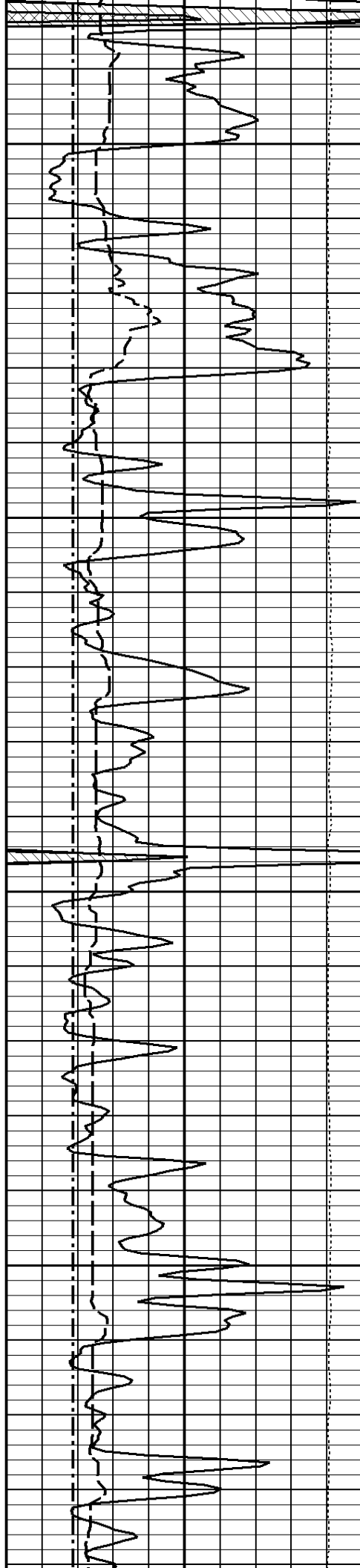




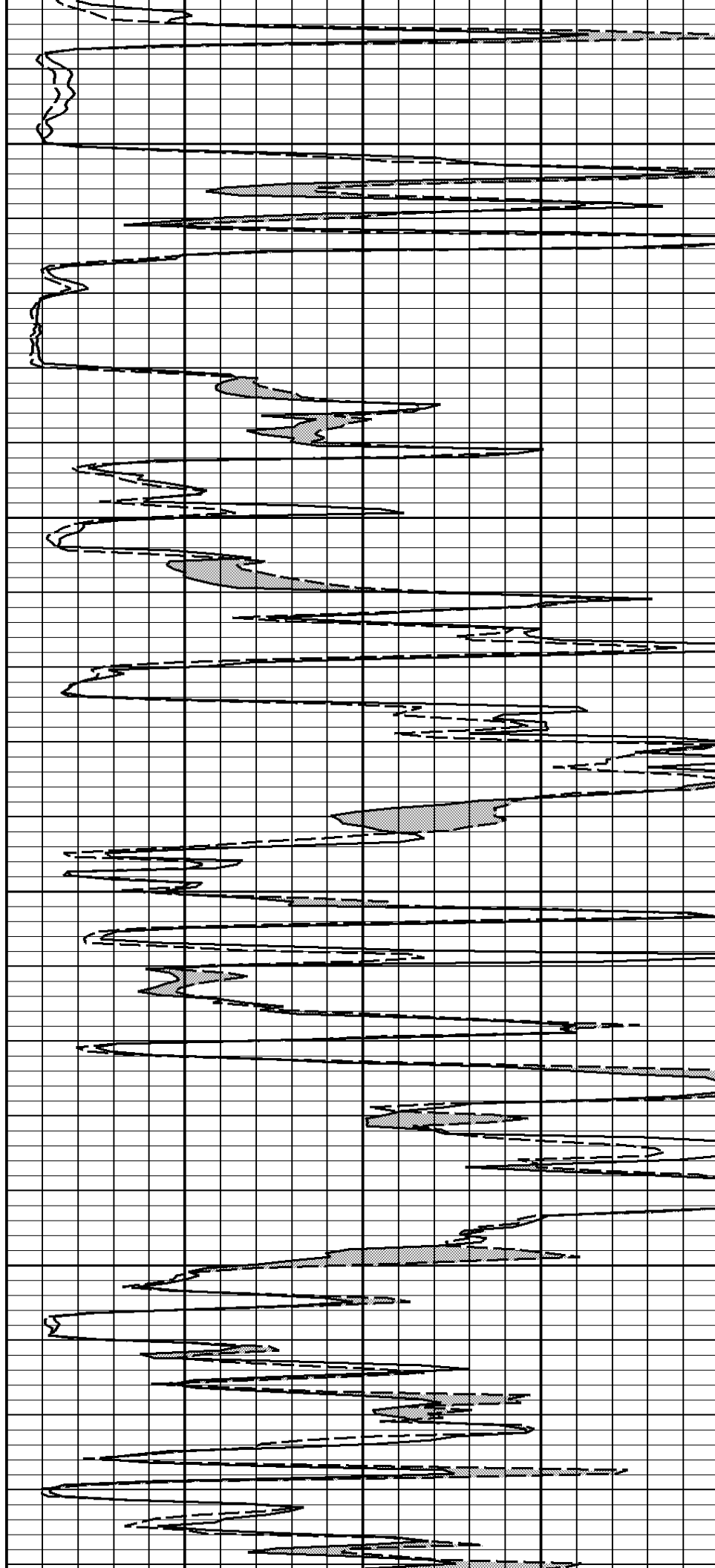
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3200

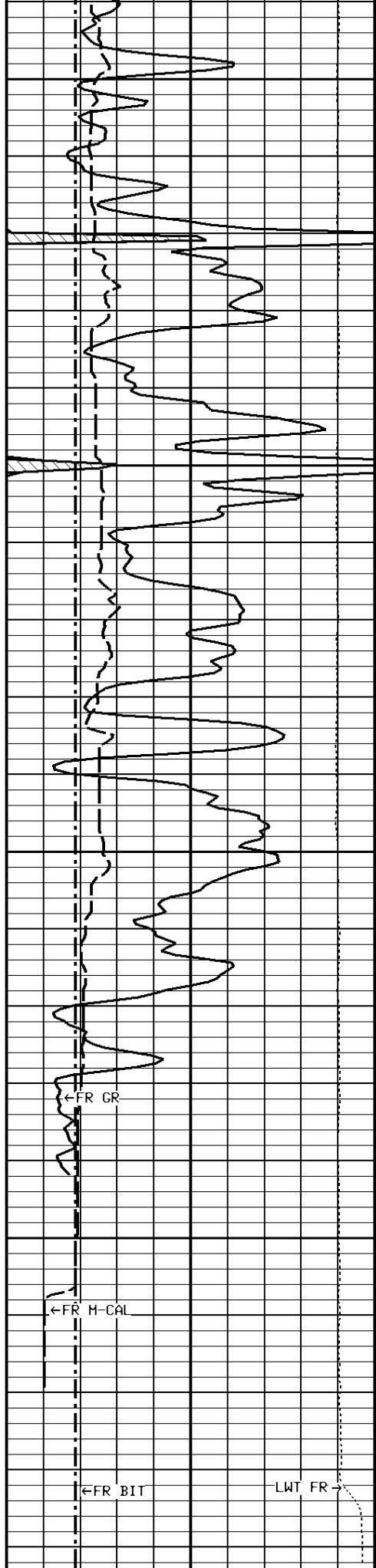




3300



3400

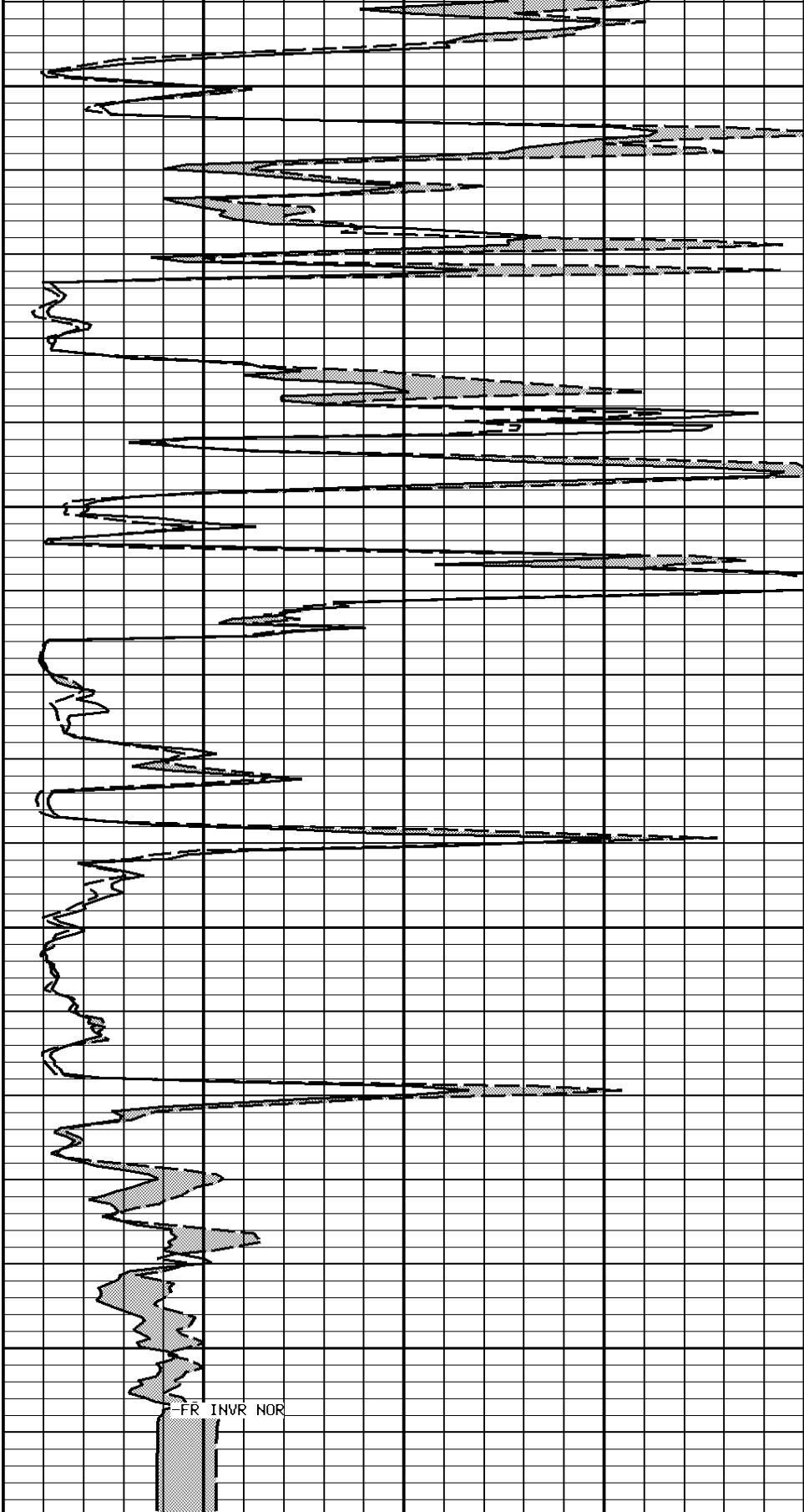


3500

3600

3633

N.R. #105

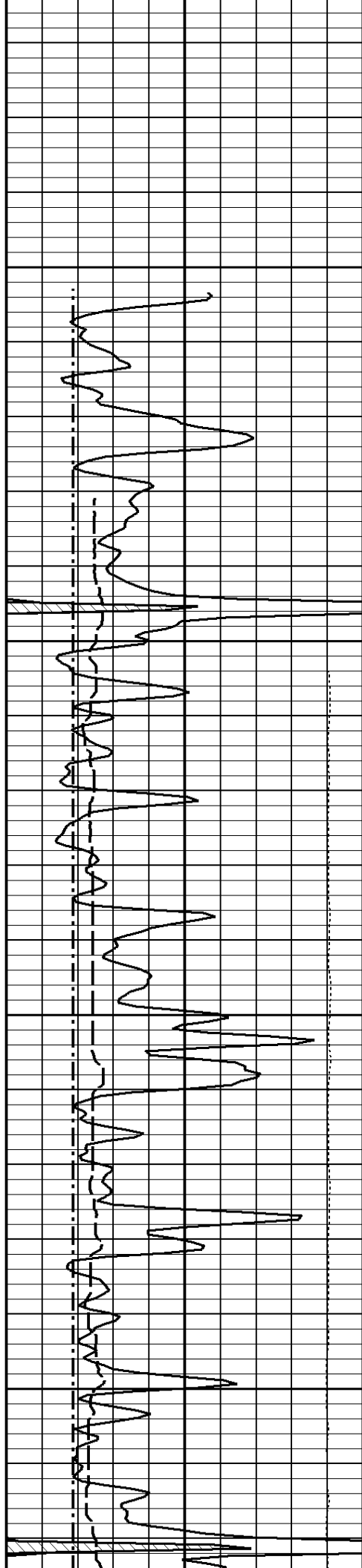


1:240 MAIN SECTION

MICRO-NORMAL OHMM	
0	40
MICRO-INVERSE OHMM	
0	40

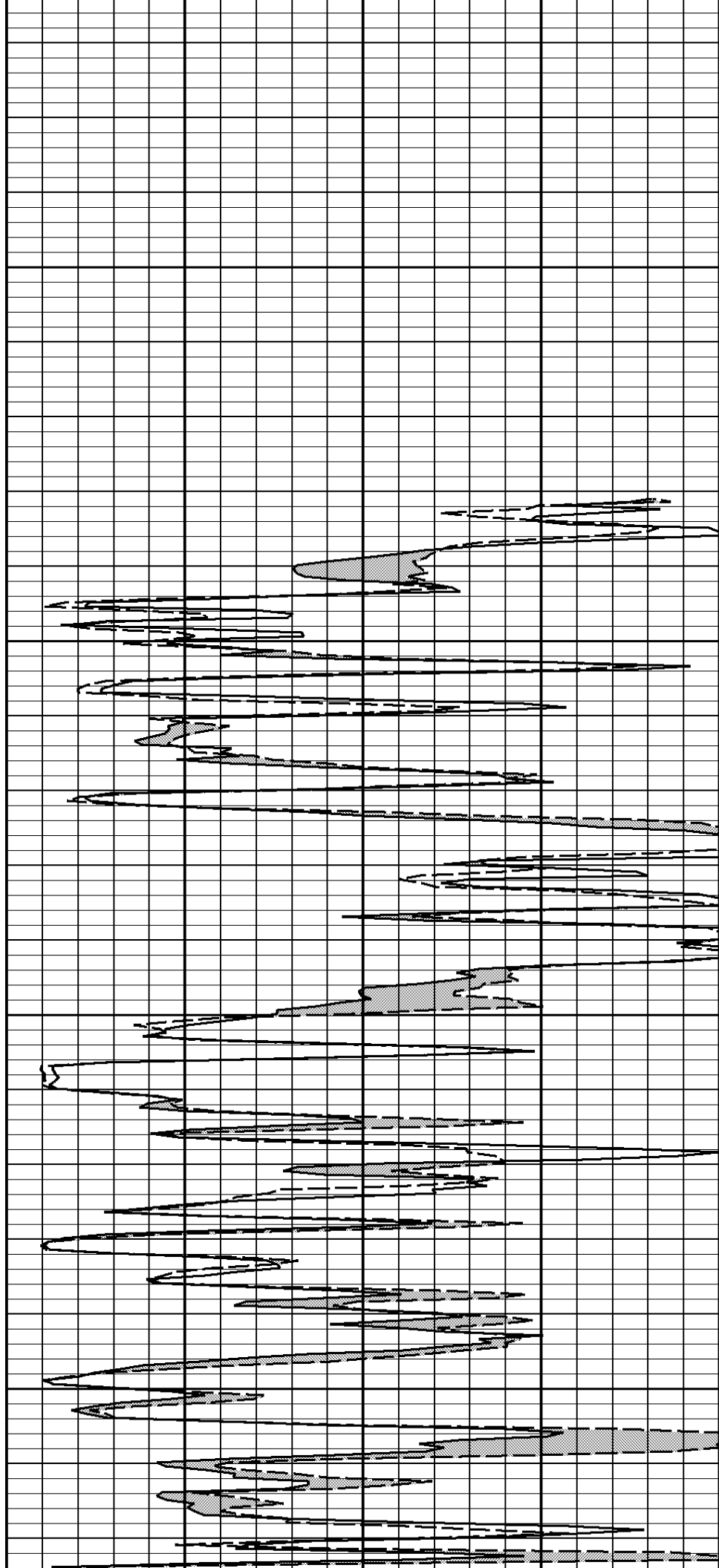
MICRO-INVERSE OHMM	
0	40
MICRO-NORMAL OHMM	
0	40

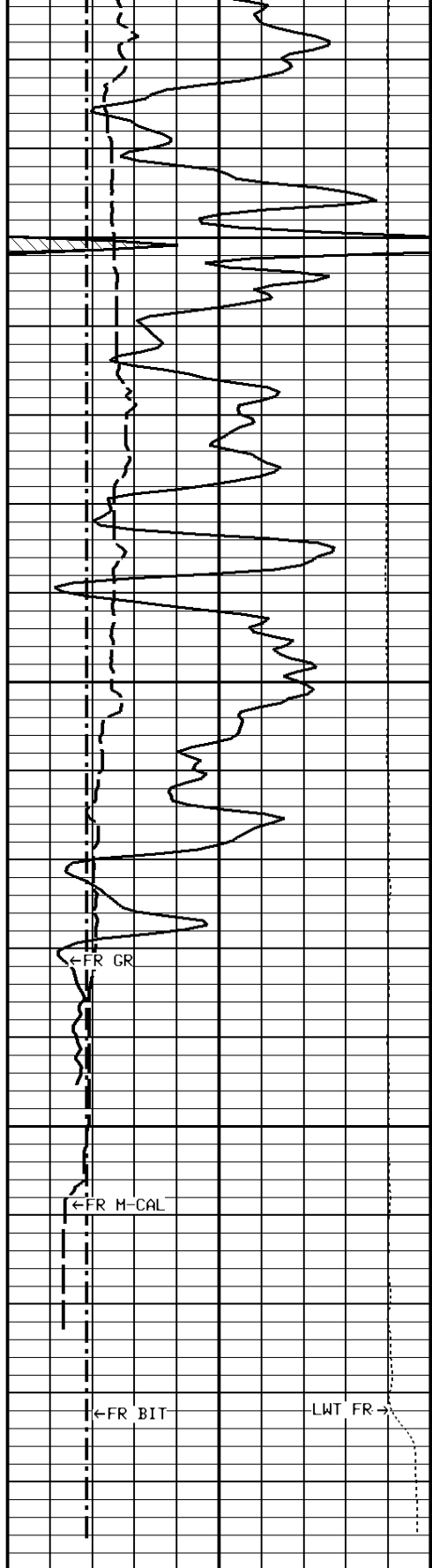
1:240 REPEAT SECTION



3300

3400

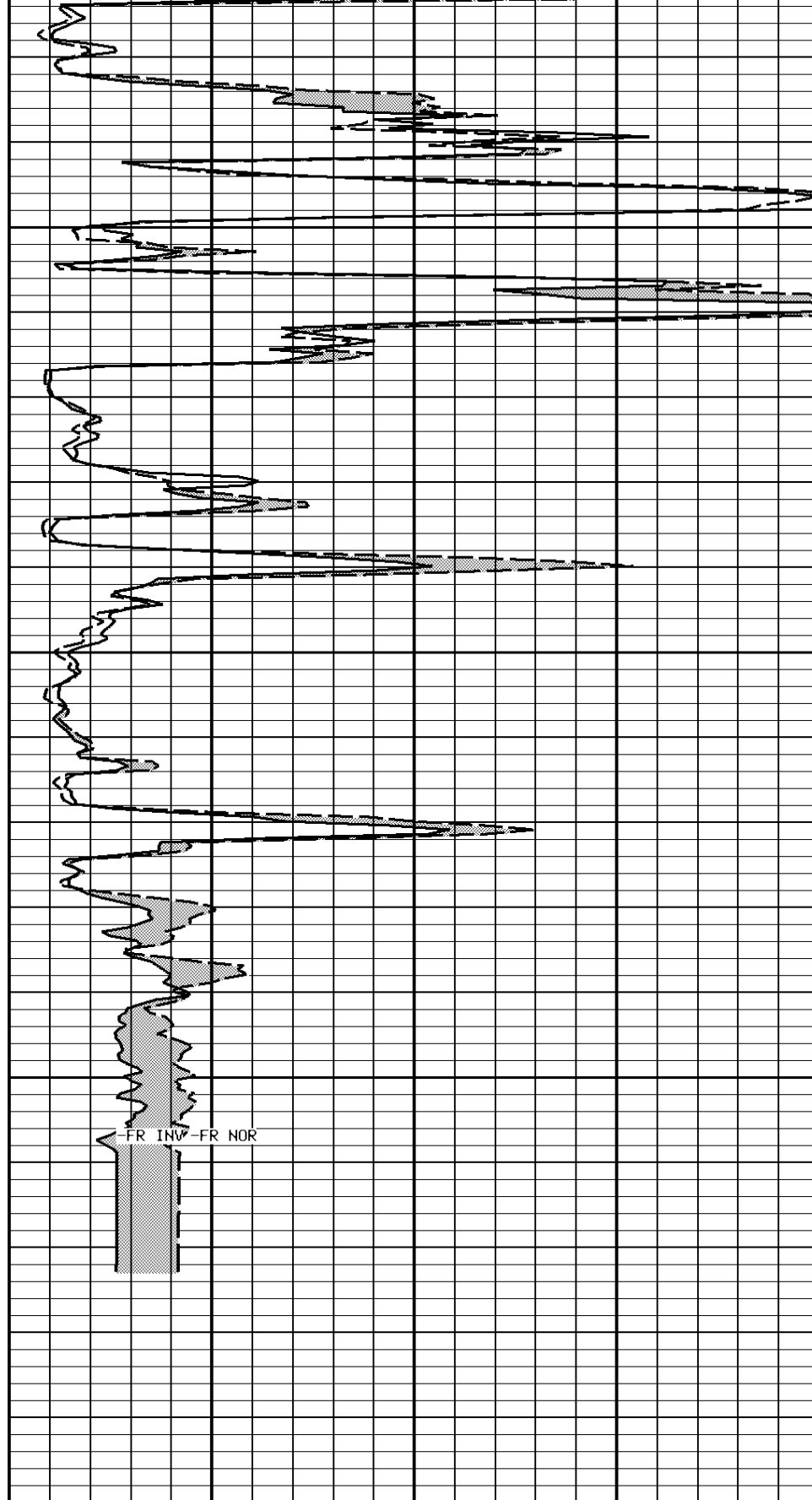




3500

3600

3633



1:240 REPEAT SECTION

CALIPER MICRO
INCHES (IN)

MICRO-NORMAL
OHMM

16	26
6	16

GAMMA RAY API UNITS	
150	300
0	150

BIT SIZE INCHES (IN)	
6	16

TENSION LBS	
10000	0

0	40

MICRO-INVERSE OHMM	
0	40

*** Calibration Summary ***

Shop Calibration						
GRTB						
Performed : 01-NOV-2010			Time : 02:32			
Sensor Suite : GR-GR5			ID : GRT-BC-43			
	Measured		Units	Calibrated		Units
	Background	Jig		Jig		
GR	41	314	CPS	175		GRAPI

Shop Calibration						
MST						
Performed : 01-NOV-2010			Time : 02:29			
Sensor Suite : CAL-MSI			ID : MST-CA-021			
	Jig - Measured		Jig - Calibrated		Units	
	Ring#1	Ring#2	Ring#1	Ring#2		
CL # 1	6.5	11.0	6.0	12.0	IN.	

Performed : 01-NOV-2010			Time : 02:28			
Sensor Suite : MSI-NI			ID : MST-CA-021			
Internal						
	Measured			Calibrated		
	Zero	Reference	Units	Zero	Reference	Units
VN	20.8	30059.9		0.00	555.00	MV
VI	26.9	29891.6		0.00	555.00	MV
MPNR					90.91	OHMM
MPIR					49.67	OHMM