

Tucker
ENERGY SERVICES

MICRO LOG

Company PICKRELL DRILLING CO. INC.
Well YOUNG RR #1
Field BROADWAY
County KINGMAN
State KANSAS
Country USA
API No. 15-095-22297

File No : TUL-60673
Company : PICKRELL DRILLING CO. INC.
Well : YOUNG RR #1
Field : BROADWAY
County : KINGMAN
State : KANSAS
Country : USA
API No : 15-095-22297

Location :
660' FSL & 330' FEL
E2 SE SE

LSD : Sect : 34 Twp : 27S Rge : 5W

Permanent Datum: GL Elevations: KB 1443.00 Ft CNT PIT
Drilling Measured From: KB DF 1442.00 Ft LDT
Log Measured From: KB GL 1433.00 Ft MLT
Above Permanent Datum: 10.00 Ft

Date 09-03-2015

Run Number	1		
Depth--Driller	3910.0	Ft	
Depth--Logger	3910.0	Ft	
First Reading	3887.0	Ft	
Last Reading	2400.0	Ft	
Casing--Driller	211.0	Ft	
Casing--Logger	211.0	Ft	
Bit Size	7.875	In	
Casing Size	8.625	In	
Hole Fluid Type	WBM		
Density	9.4		
Fluid Loss	9.0		
PH/Viscosity	10.0	49.0	
Sample Source	MEASURED		
RM@Measured Temp.	0.800	@ 70 F	
RMF@Measured Temp	0.700	@ 70 F	
RMG@Measured Temp.	0.900	@ 70 F	
Source RMF/RMC	CALCULATED	CALCULATED	
RM@BHT	0.600	@ 114 F	
Time Circulation Stopped			
Max Recorded Temp.	116	F	
Equipment/Base	T-126	TULSA	
Recorded By	S.K. DAVIS		
Witnessed By	A. YOUNG		

The customer is hereby warned that by providing the log data herein, T. E. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. E. 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. E. 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. E. 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.

Bitsize Intervals		Casing Strings			
Size (In)	Bottom (Ft)	Size (In)	Weight (Lbs)	Bottom (Ft)	Top (Ft)
7.875	3910.00	8.625	20.00	211.00	0.00

Run Number	1	
Date	09-03-2015	
Date/Time On Bottom	09-03-2015 6:00 am	
Depth to Fluid	0.0 Ft	
Salinity	5000.000	
RMF@BHT	0.400 @ 114 F	
RMC@BHT	0.600 @ 114 F	

Run Number 1

Comments

ALL PRESENTATION PER CUSTOMER REQUEST
 GRT,CNT,LDT,PIT RUN IN COMBINATION
 CALIPERS ORIENTED ON X-Y AXIS
 2.71 G/CC USED TO CALCULATE POROSITY
 ANNULAR & BOREHOLE VOLUME CALCULATED USING 5.5 PRODUCTION CASING
 PHIN IS CALIPER CORRECTED
 DETAIL IS PRESENTED FROM TD TO 2400'
 ANHYDRITE / SALT SECTION FROM 950' TO 450'

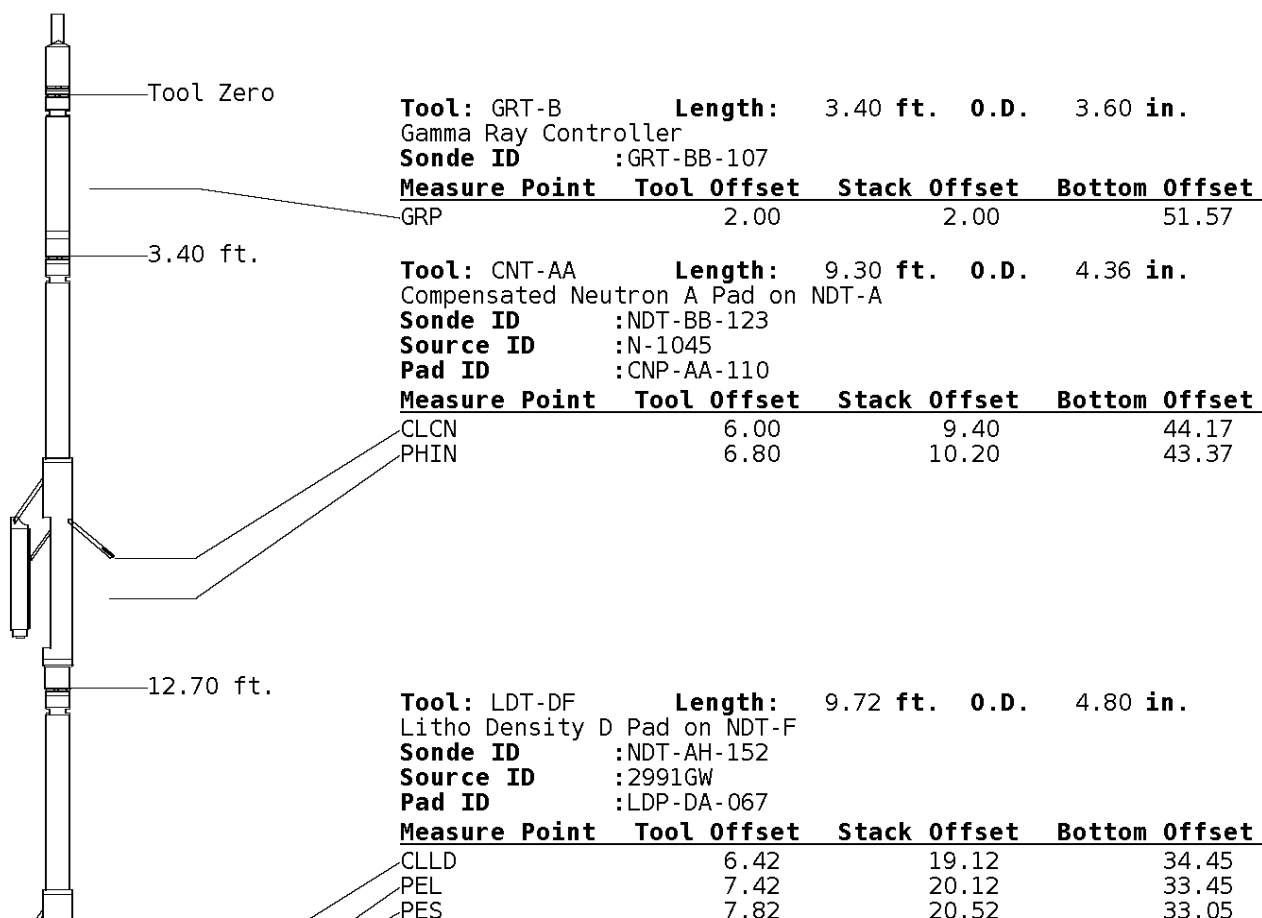
GRT; GRP,
 CNT; PHIN, CLCNIN
 LDT; PORL, LCORN, PECLN, LDENN, CLLDIN
 MLT; NOR.RF, INV.RF, MSCLPIN.
 PIT; ILD, ILM, SPU, SFLAEC, CIRD

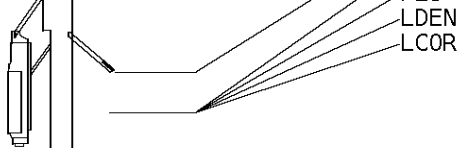
OPERATORS;

C. GONZALES
 J. KLINE

Tool String Schematic

Total Tool Length - 53.57 ft.
Maximum Outside diameter - 6.00 in.
Net Weight in Air - 943.00 lbs.



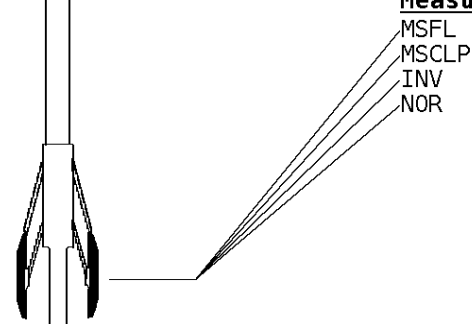


LDEN	7.62	20.32	33.25
LCOR	7.62	20.32	33.25

22.42 ft.

Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
 Micro Spherically Focused (IC)
Sonde ID :MST-DA-057

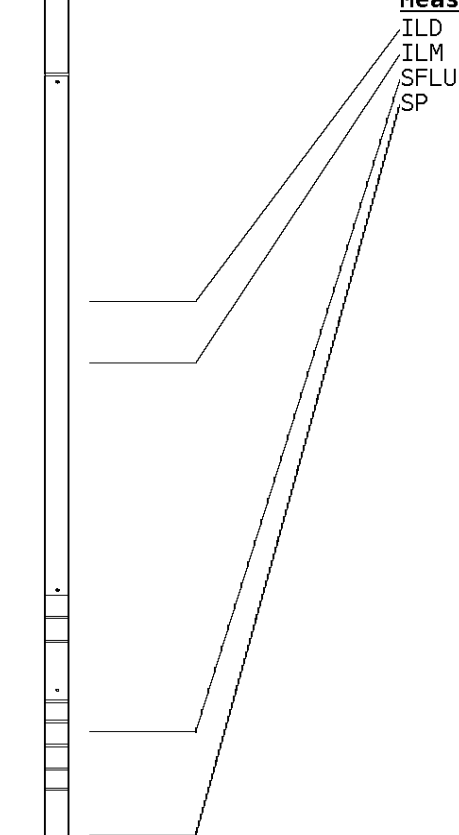
Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	30.02	23.55
MSCLP	7.60	30.02	23.55
INV	7.60	30.02	23.55
NOR	7.60	30.02	23.55



32.08 ft.

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-CA-077

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	41.00	12.56
ILM	10.10	42.18	11.39
SFLU	17.49	49.57	4.00
SP	20.60	52.68	0.88



LWT 53.57 ft.

Well File: pic-you-rr-1-mstk-sep-3

Scale: 1:240 **Format:** MST-240

Segment: V1.D1.S8 AS-7 MAIN

Acquired: 2015-09/03 06:16 3.4.0-13525

Reference: 0

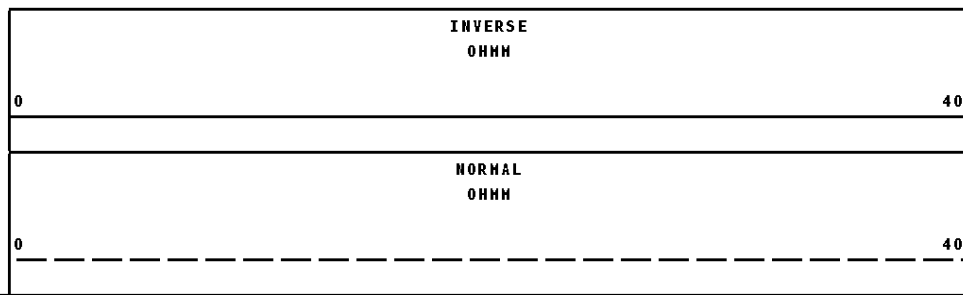
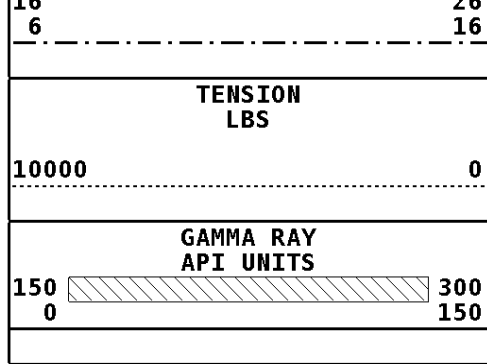
Processed: 2015-09/04 13:21 3.4.0-13534

**BIT SIZE
INCHES (IN)**

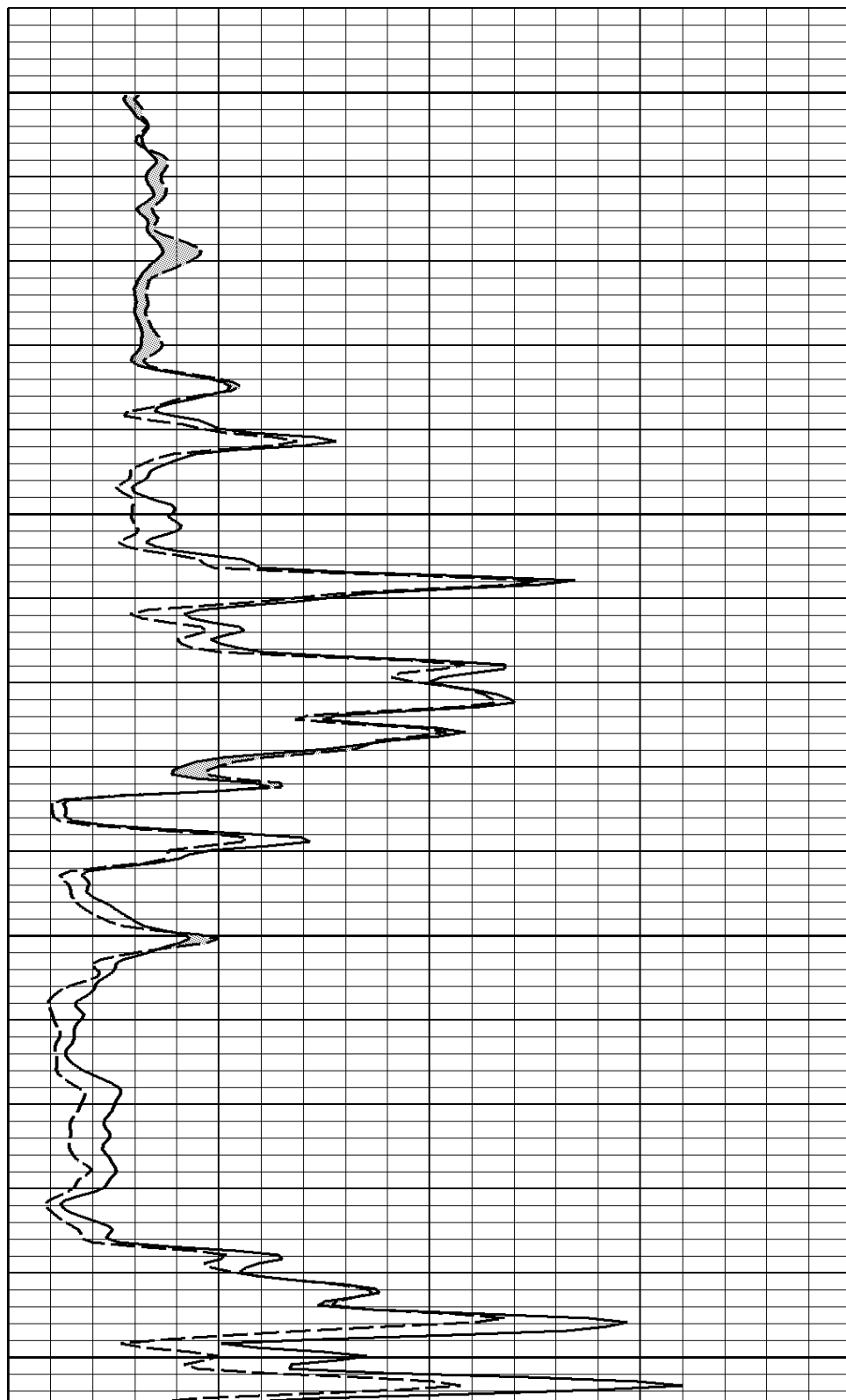
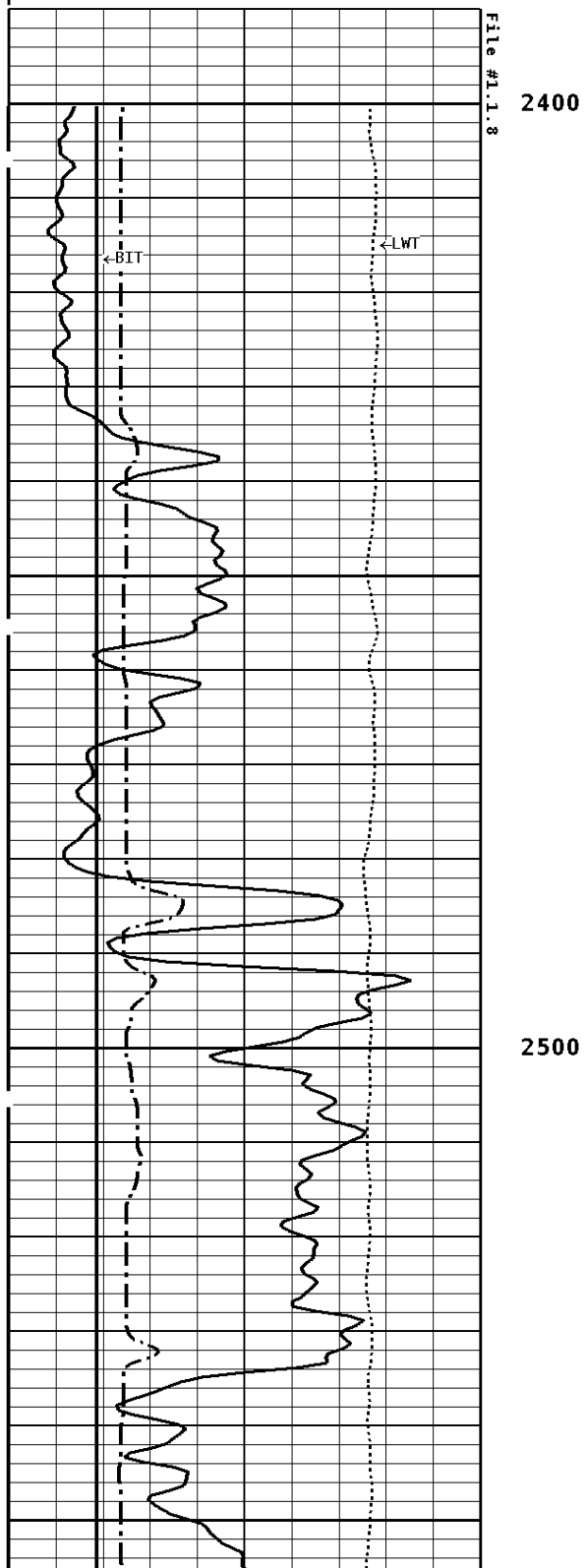
6 16

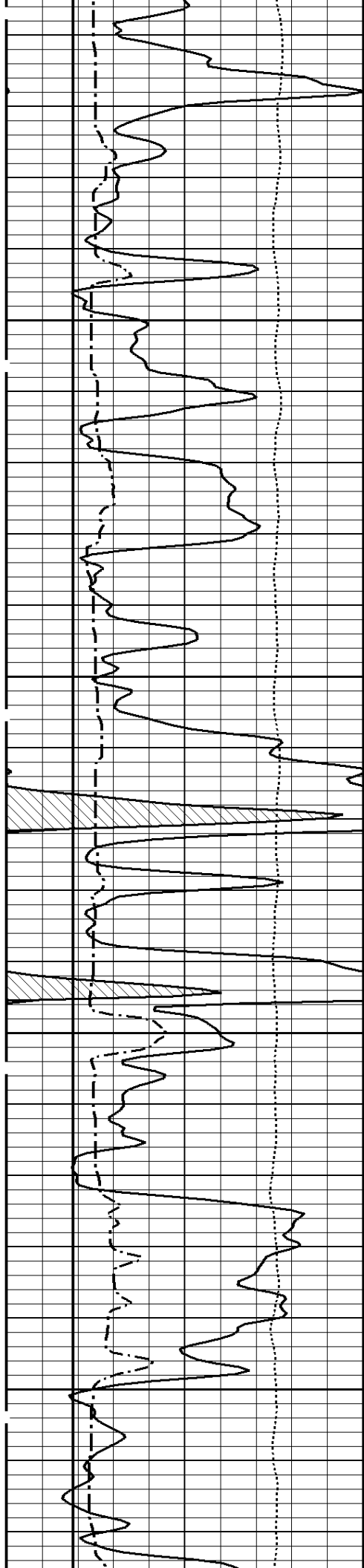
**CALIPER MICRO
INCHES (IN)**

16 26



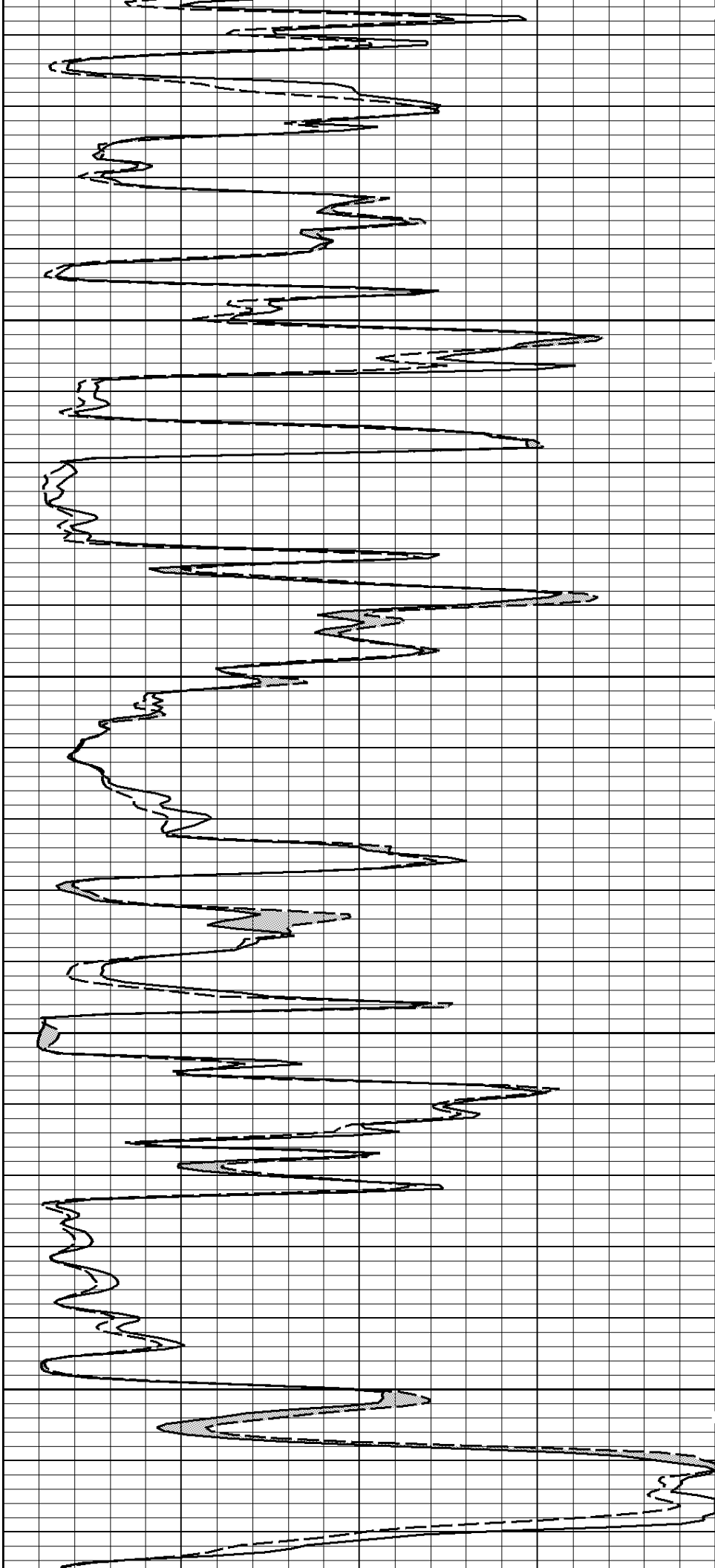
1:240 MAIN SECTION

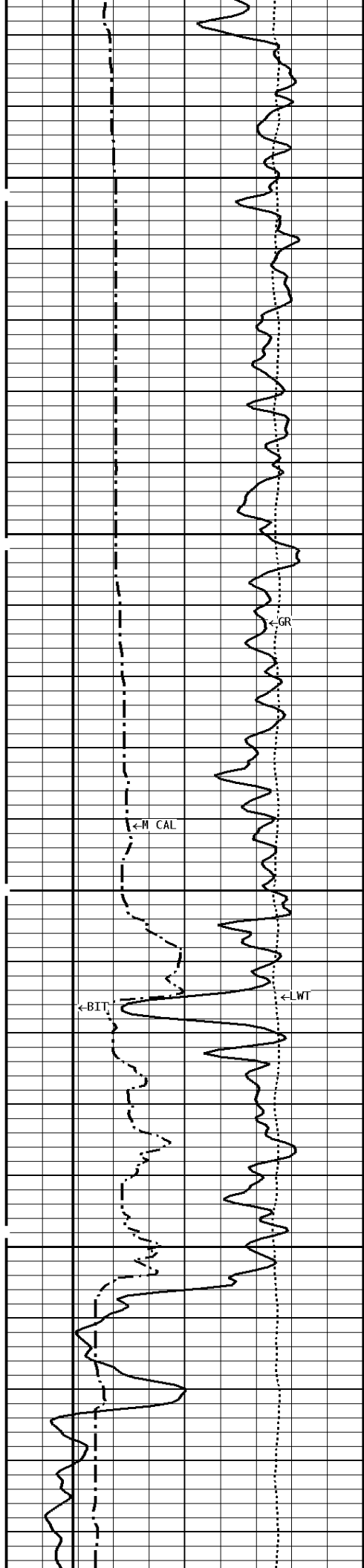




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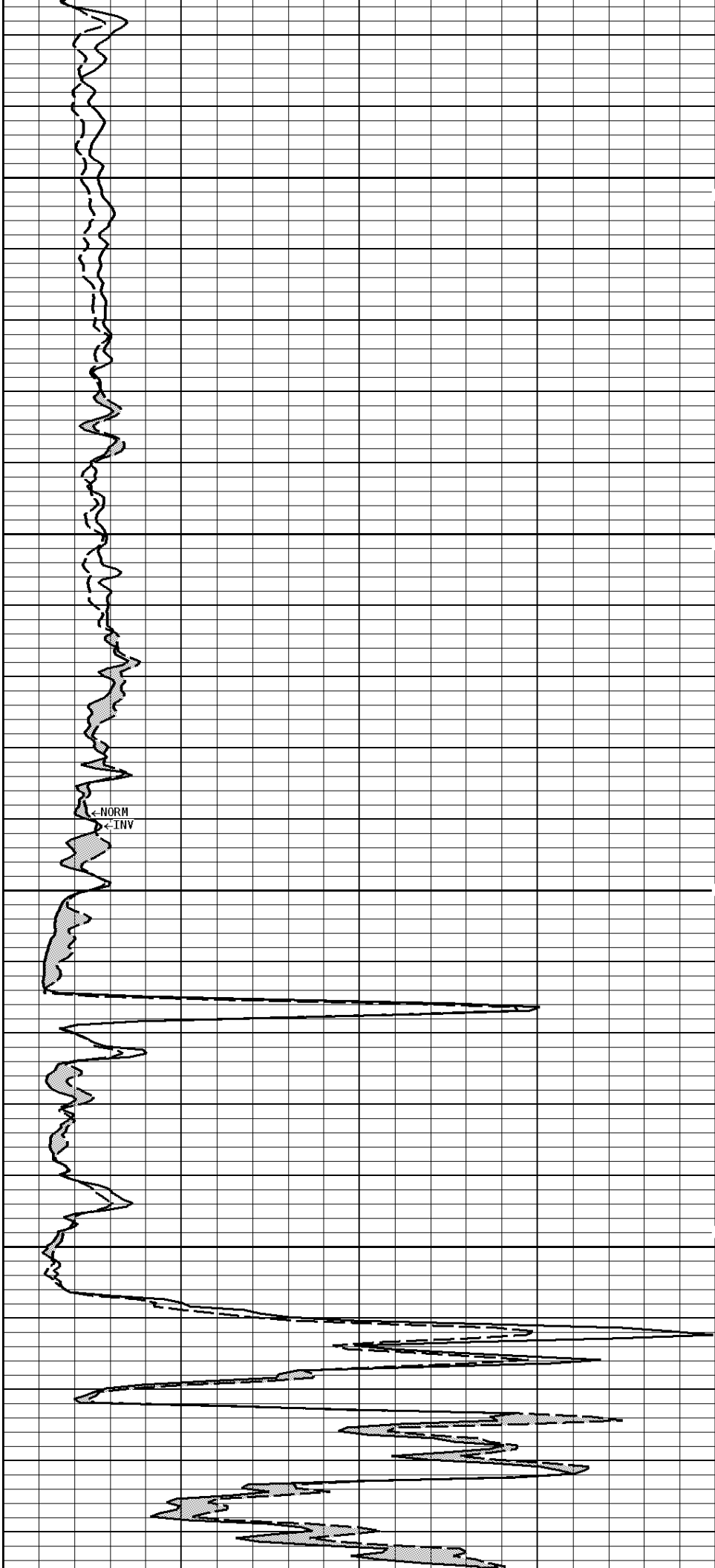
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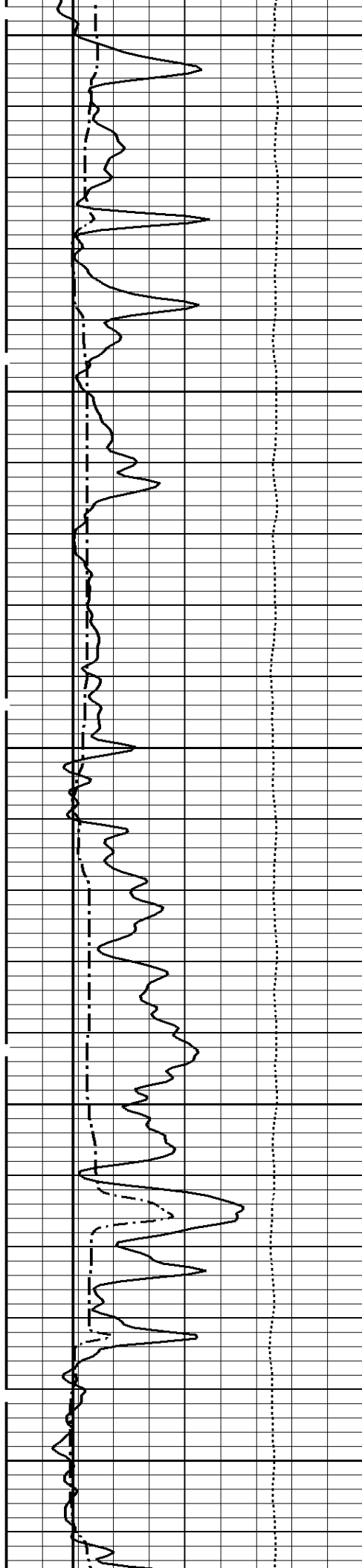




2800

2900

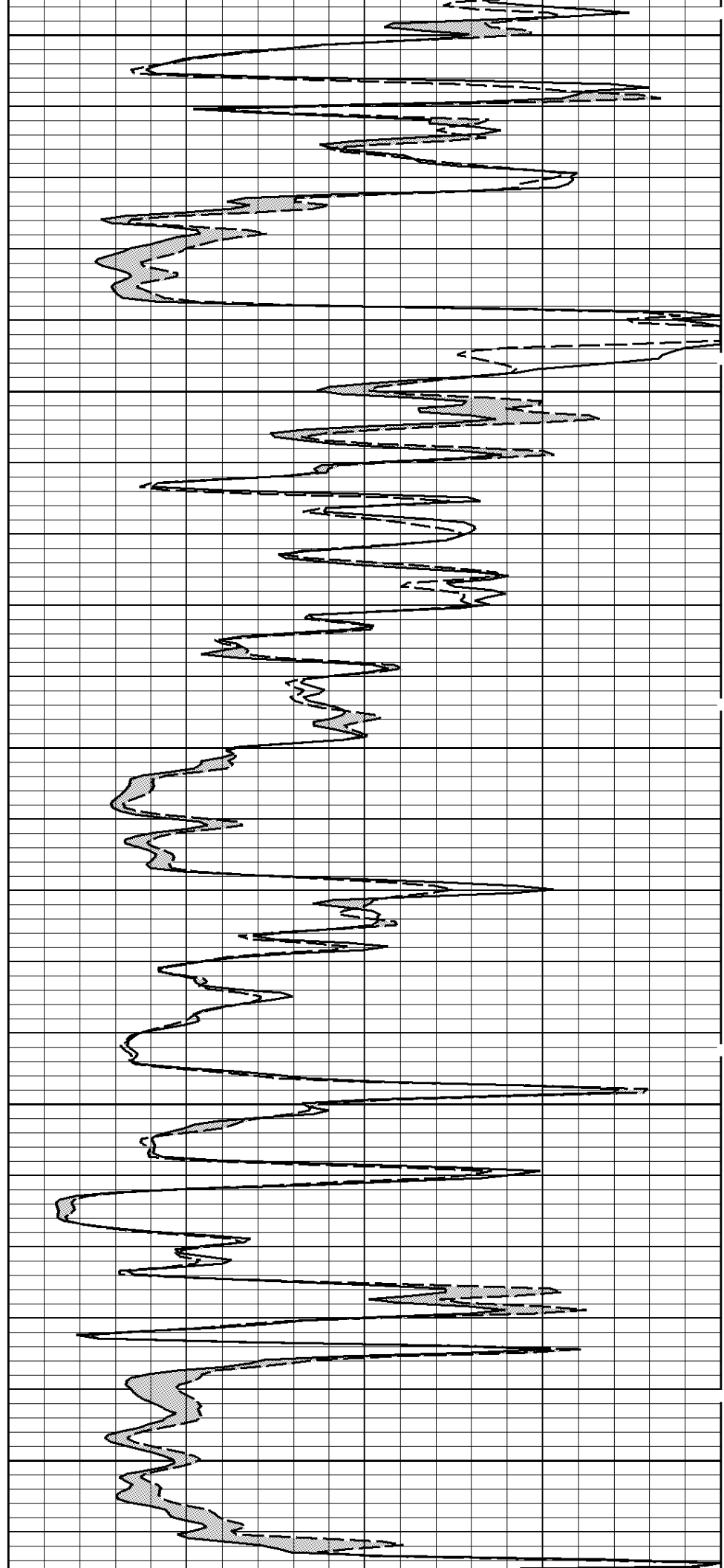


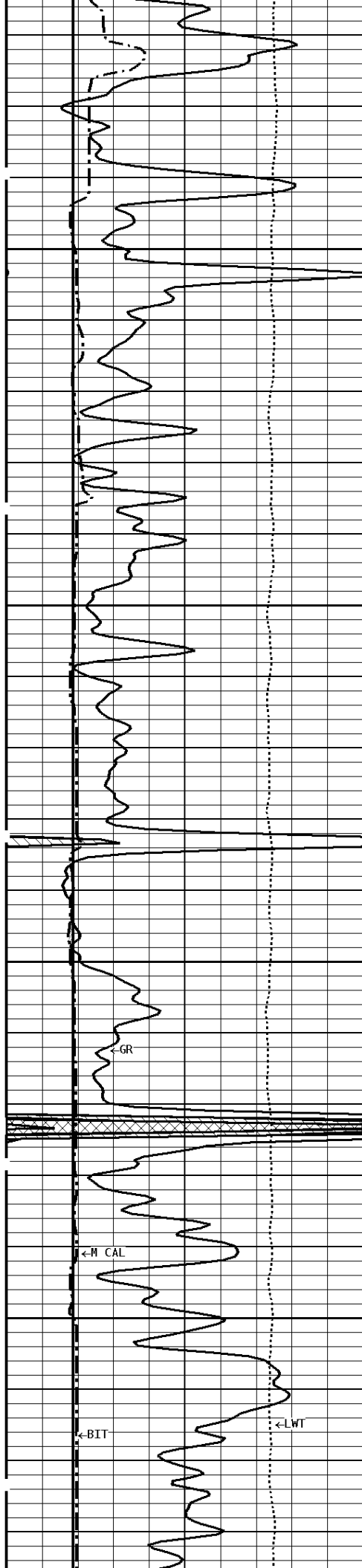


3000

3100

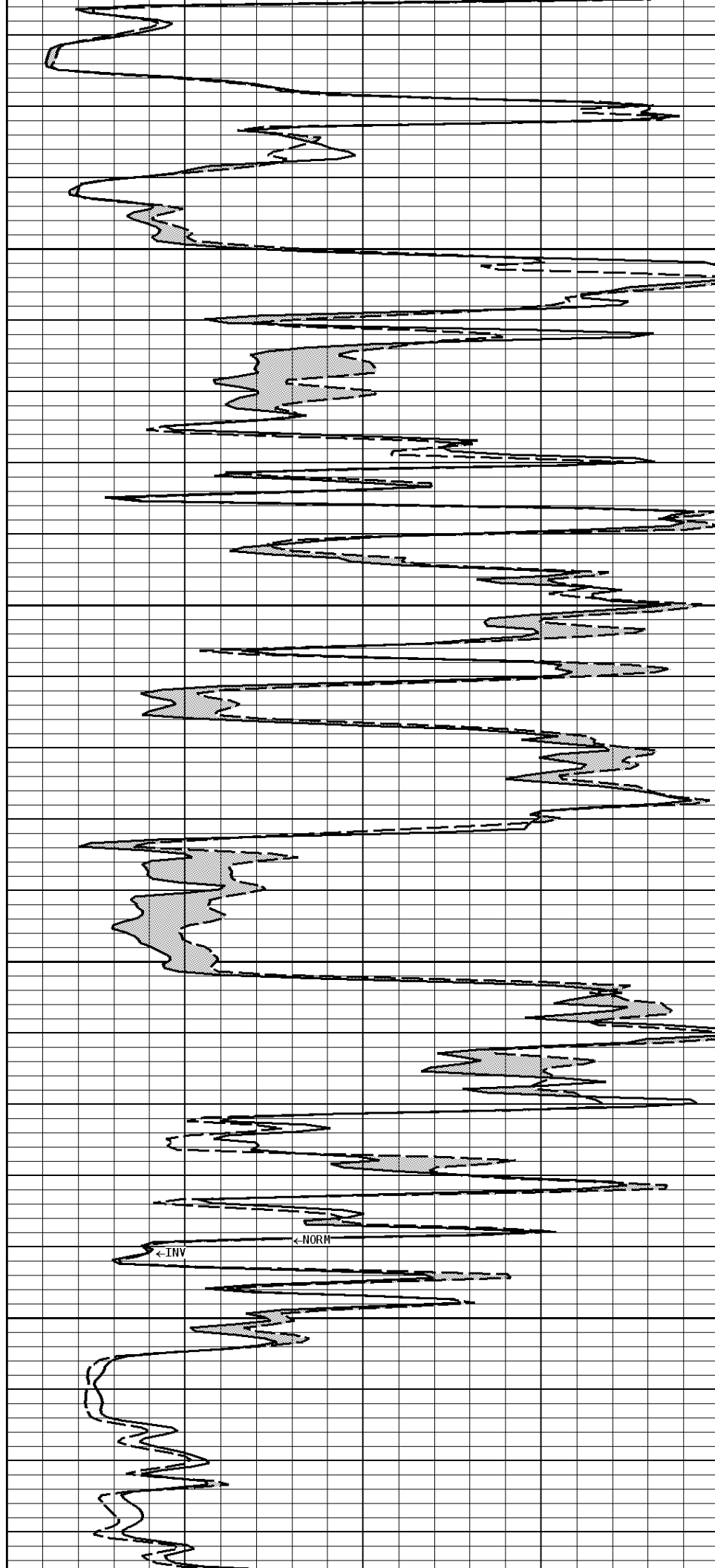
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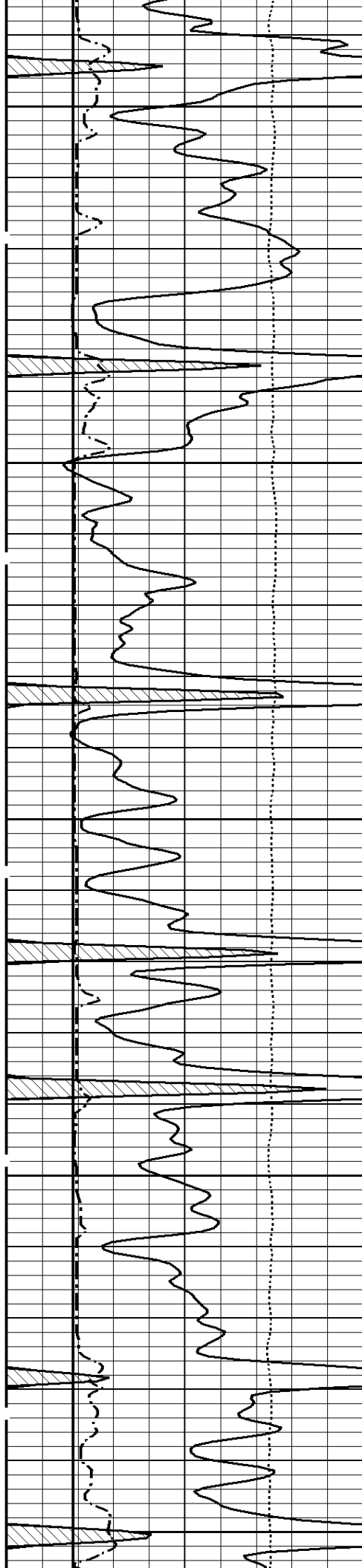




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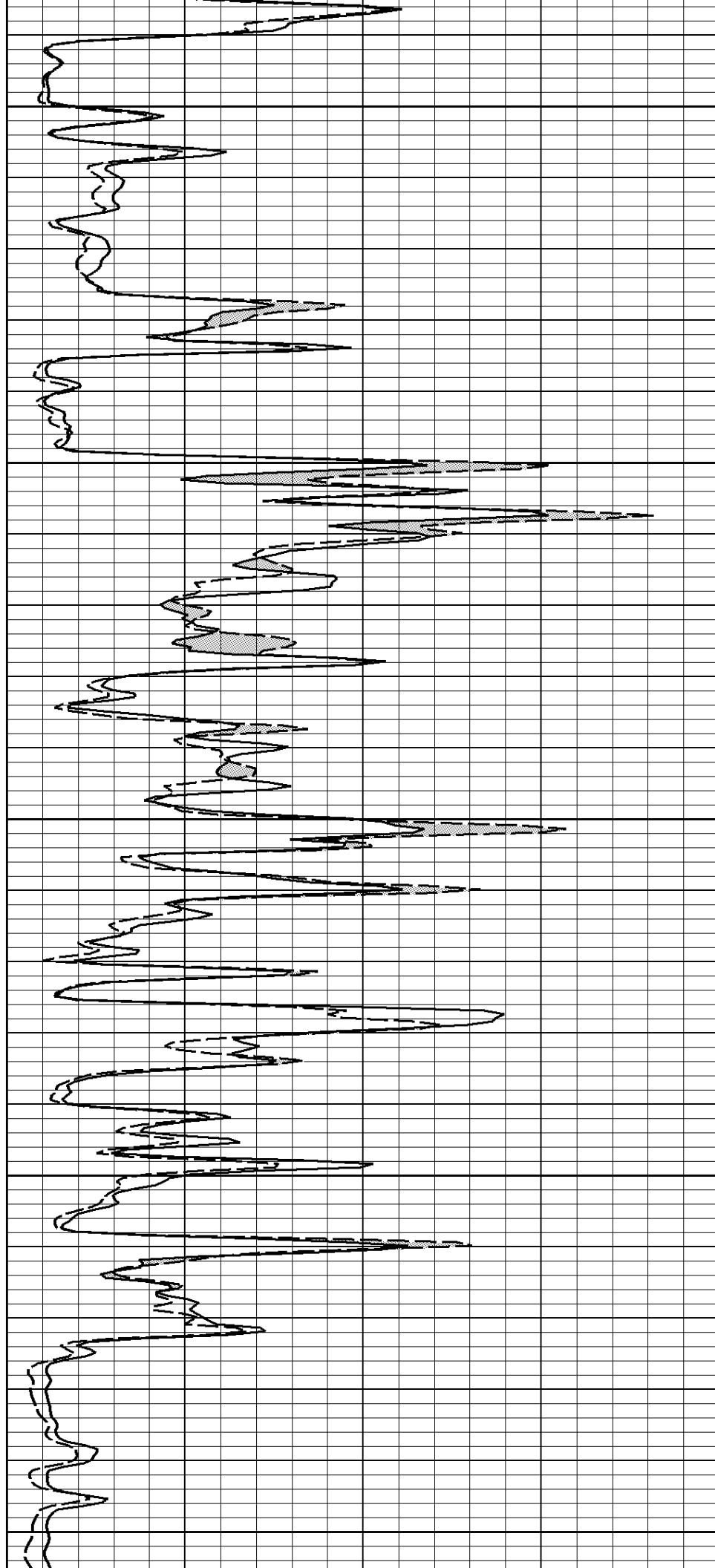
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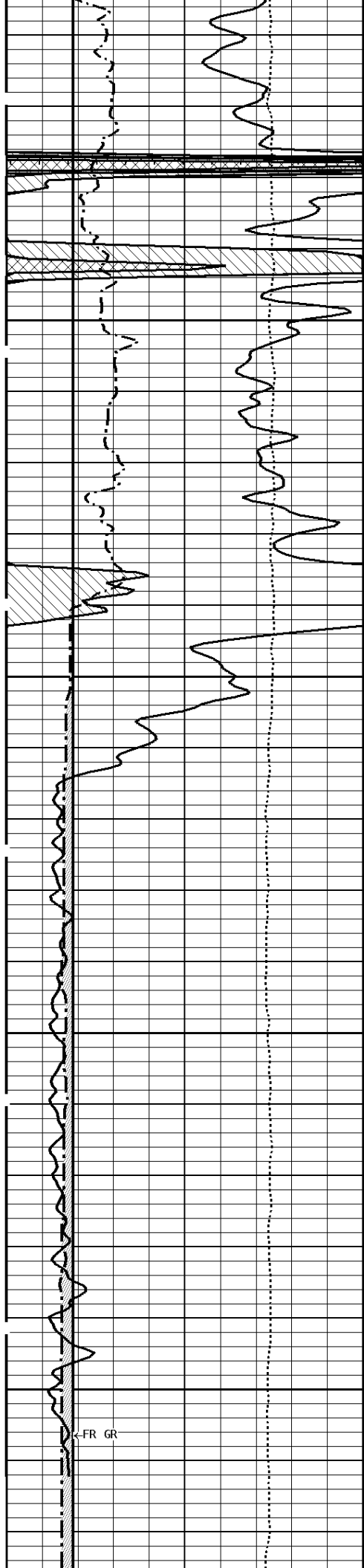




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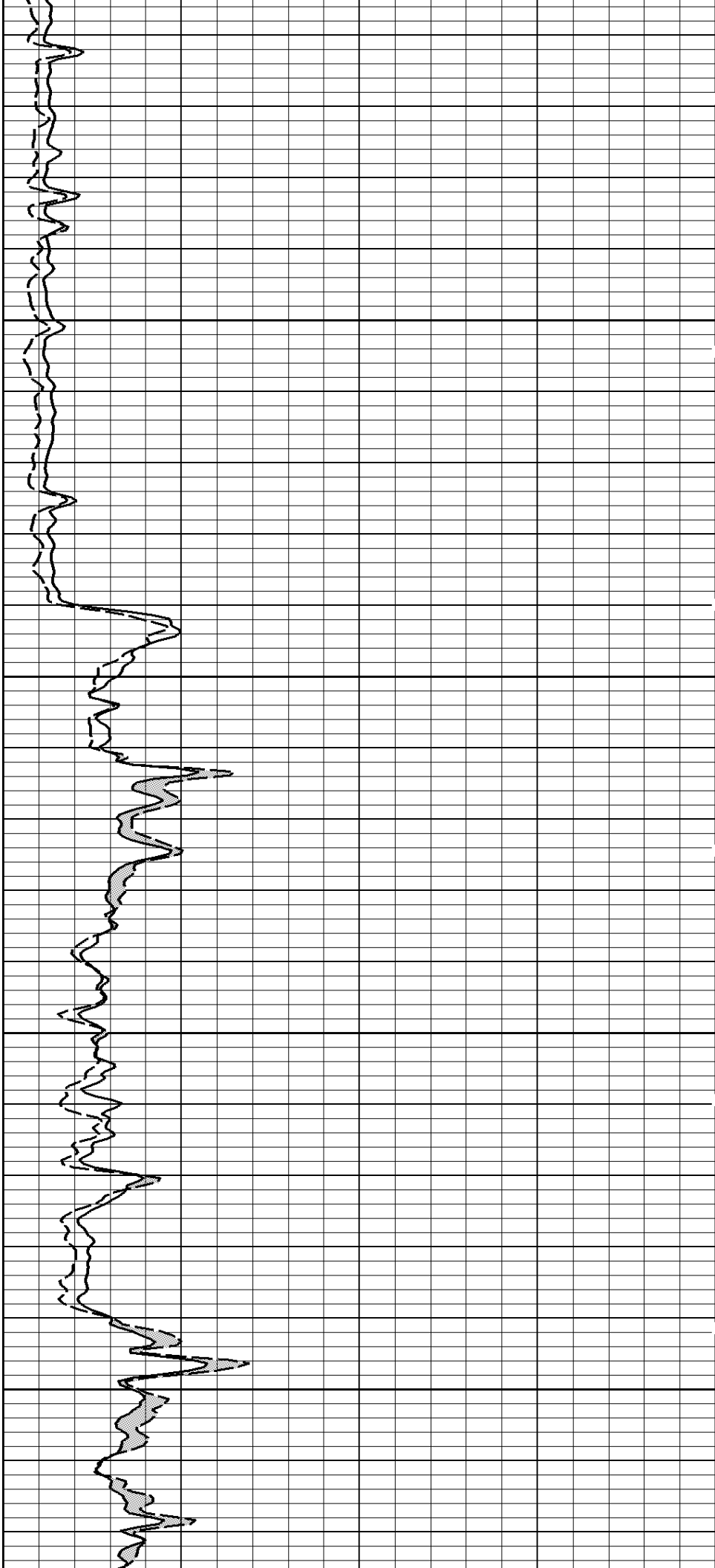
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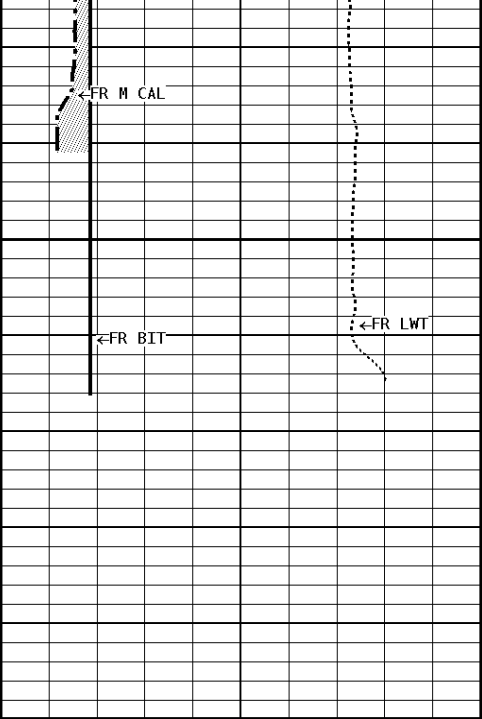




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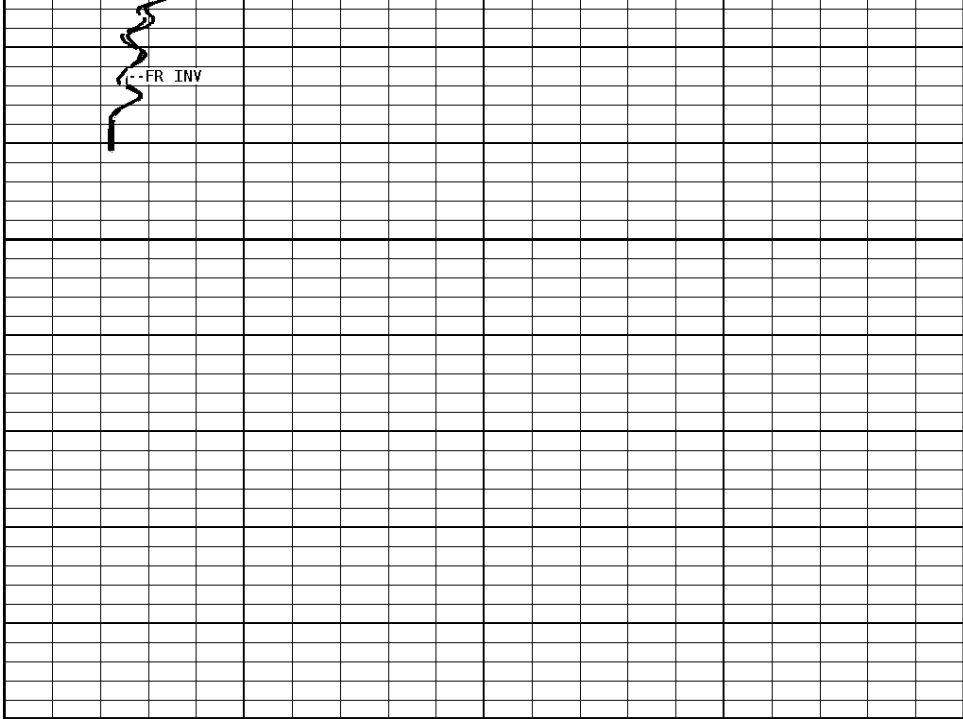
3800





3900
3910

File #1.1.8



1:240 MAIN SECTION

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

NORMAL OHMM	
0	40
INVERSE OHMM	
0	40

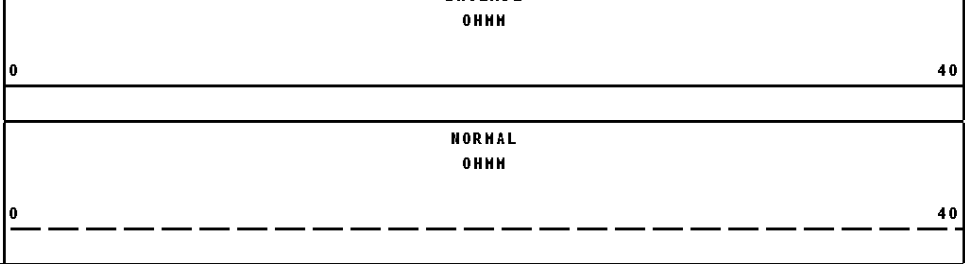
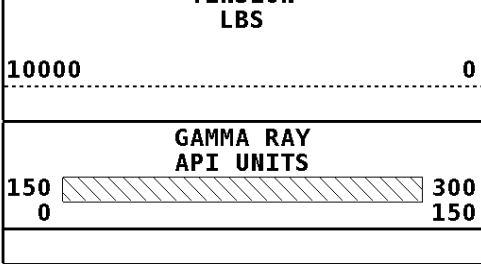
* Borehole Zone Factors *

Zone 1	99999.0	to	0.0	Feet
Drill Bit Size	7.875 in			
MSTNG Normal Correction	-0.50 ohm/m			
MSTNG Inverse Correction	1.25 ohm/m			

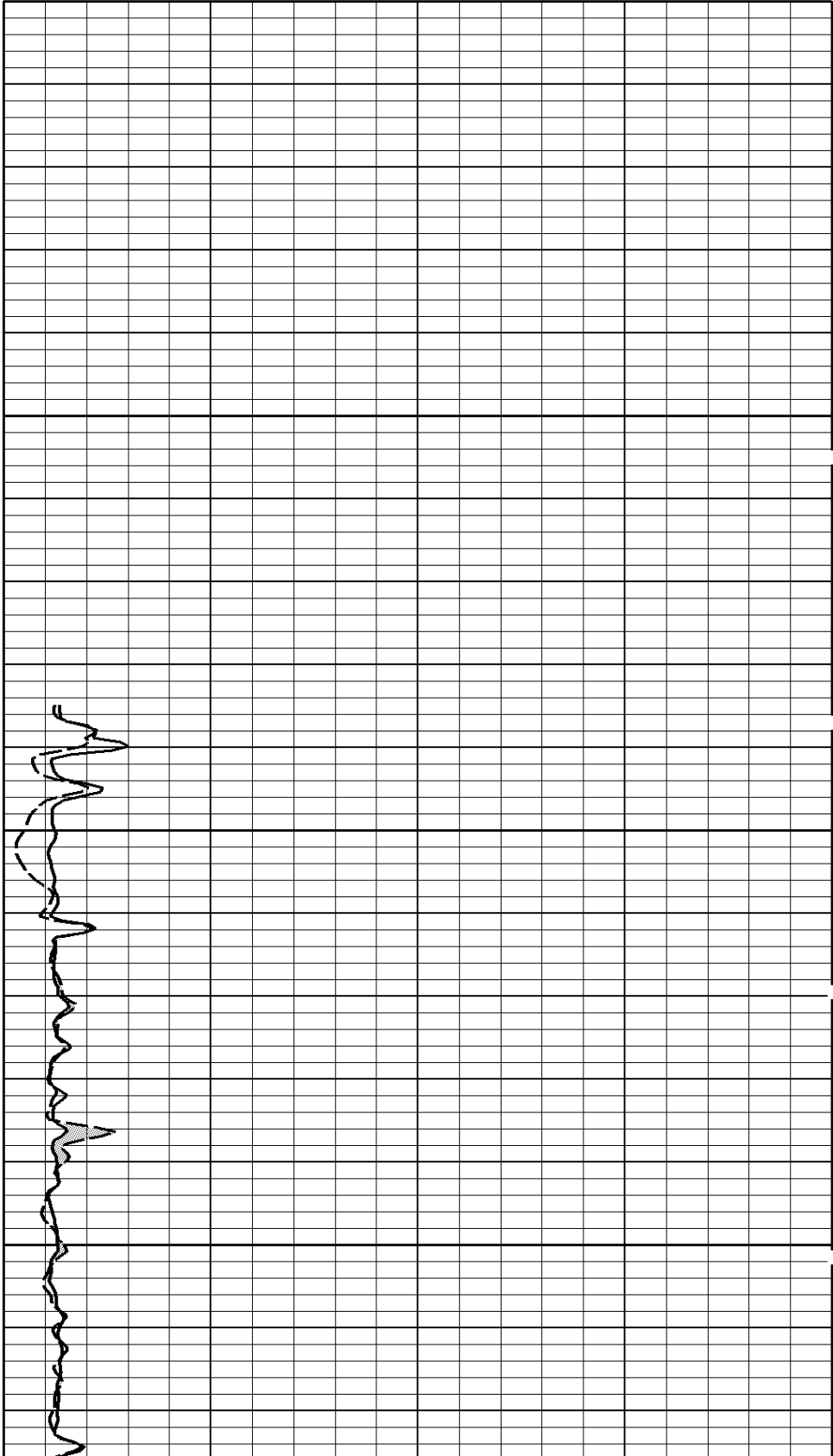
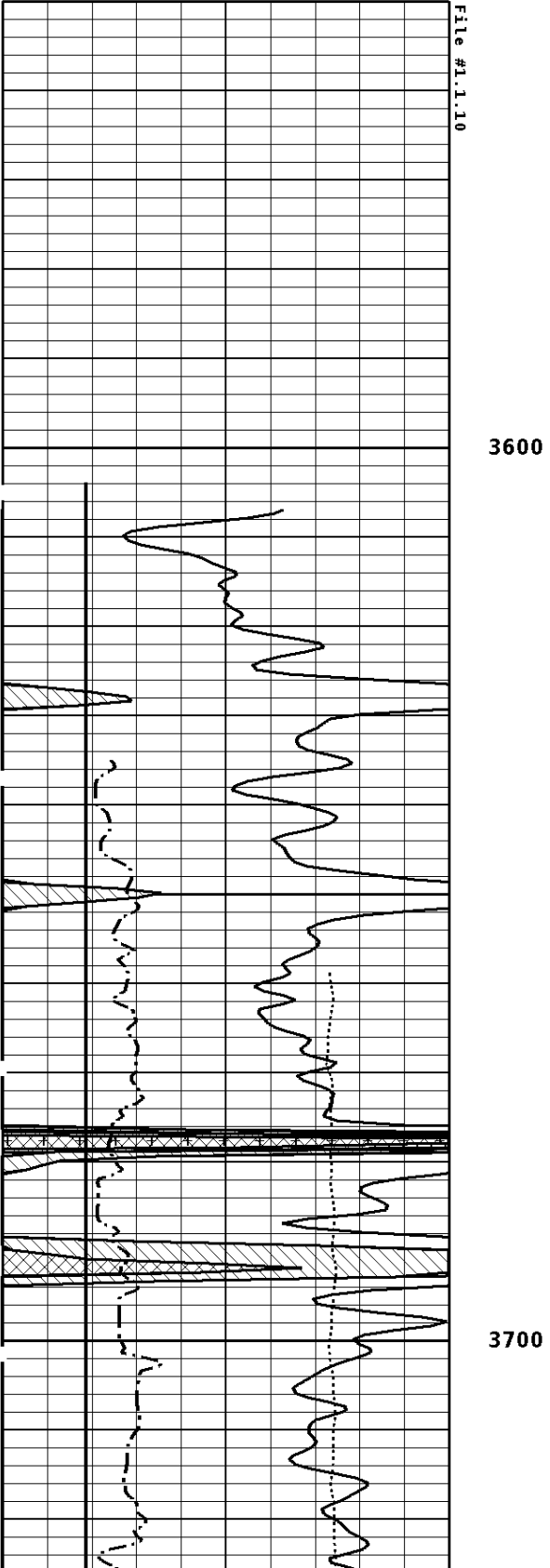
Well File:	pic-you-rr-1-mstk-sep-3	Scale:	1:240	Format:	MST-240
Segment:	V1.D1.S10 AS-7 REPEAT	Acquired:	2015-09/03 05:55 3.4.0-13525		
Reference:	0	Processed:	2015-09/04 13:21 3.4.0-13534		

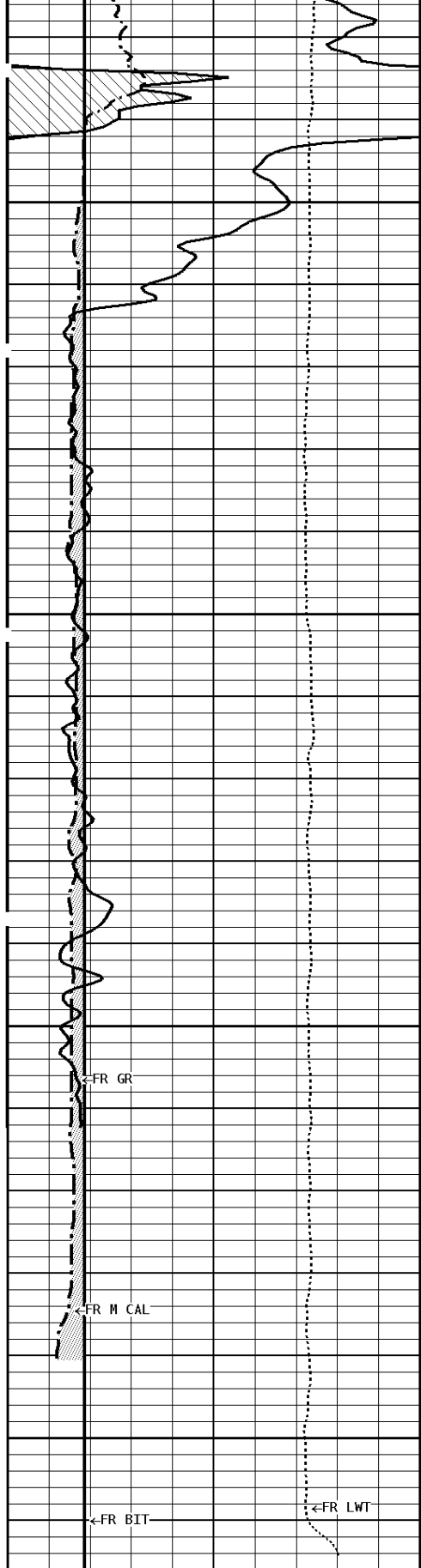
BIT SIZE INCHES (IN)	
6	16
CALIPER MICRO INCHES (IN)	
16 6	26 16
TENSION	

INVERSE	
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1:240 REPEAT SECTION



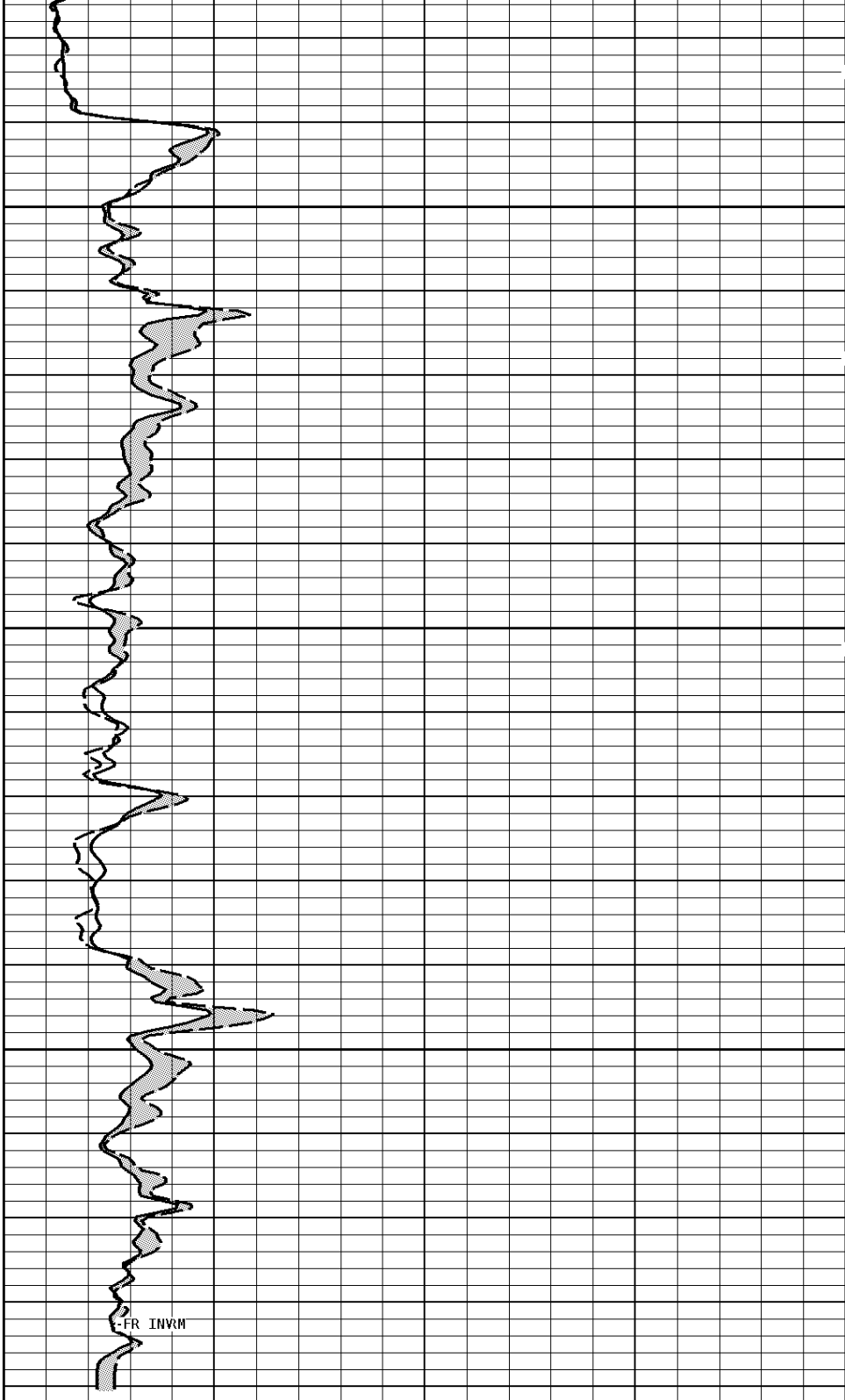


3800

3900

3910

File #1.1



FR INV

1:240 REPEAT SECTION

GAMMA RAY API UNITS 150 300 0 150	NORMAL OHMM 0 40	
TENSION LBS 10000 0	INVERSE OHMM 0 40	
CALIPER MICRO INCHES (IN) 16 26 6 16		
BIT SIZE INCHES (IN) 6 16		

* Borehole Zone Factors *

Zone 1	99999.0	to	0.0	Feet
Drill Bit Size		7.875 in		
MSTNG Normal Correction		-0.50 ohm/m		
MSTNG Inverse Correction		1.25 ohm/m		

* Calibration Summary *

Shop Calibration GRT-B						
Performed : 24-Aug-2015				Time : 10:01		
Sensor Suite : GR-GR5				ID : GRT-BB-107		
	Measured	Units	Calibrated	Units		
GR	Background	Jig	Jig			
	61	370	175	GRAPI		
Shop Calibration MST-DA						
Performed : 04-AUG-2015				Time : 10:32		
Sensor Suite : CALI-MSN				ID : MST-DA-057		
	Jig - Measured	Jig - Calibrated	Units			
	Ring#1 Ring#2	Ring#1 Ring#2				
CL # 1	7.3 11.5	6.0 12.0	IN.			
Performed : 04-AUG-2015				Time : 13:07		
Sensor Suite : MSTDA-NI				ID : MST-DA-057		
Internal						
	Measured	Units	Calibrated	Units		
	Zero Reference		Zero Reference			
INV-V	292.9 30430.6		0.00 1636.00	MV		
NOR-V	165.6 30359.9		0.00 1636.00	MV		
IN-C	164.0 30678.0		0.00 15.46	UA		
INV-R			34.23	OHMM		
NOR-R			58.31	OHMM		



Company: PICKRELL DRILLING CO. INC.

Well: YOUNG RR #1

Location: 660' FSL & 330' FEL

Logged: 09-03-2015

K.B. Elev: 1443.0 Ft

