

STEP

MICRO
LOG

energy services

Company Well Field County State Country API No.		BEREXCO, LLC CHRISLER #2 CHRISLER ELLIS KANSAS USA 15-051-26982-00-00	
File No Company Well Field County State Country API No		HAYS-70400 BEREXCO, LLC CHRISLER #2 CHRISLER ELLIS KANSAS USA 15-051-26982-00-00	
Location : 1240' FSL & 930' FWL NW NE SW SW			
LSD :		Sect : 22	Twp : 11s
		Rge : 16w	
Permanent Datum: Drilling Measured From: Log Measured From: Above Permanent Datum:	GL KB KB 0.00 Ft	Elevations: KB 1826.00 DF 1825.00 GL 1819.00	Services: GRT NDT PIT CNT
Date	2020-02-13		
Run Number	1		
Depth--Driller	3500.0 Ft		
Depth--Logger	3500.0 Ft		
First Reading	3478.0 Ft		
Last Reading	2500.0 Ft		
Casing--Driller	982.0 Ft		
Casing--Logger	982.0 Ft		
Bit Size	7.875 In		
Casing Size	8.625 In		
Hole Fluid Type	CHEMICAL		
Density	9.1		
Fluid Loss	9.2		
PH/Viscosity	10.0	60.0	
Sample Source	MEASURED		
RM@Measured Temp.	0.600 @ 69 F		
RMF@Measured Temp	0.510 @ 69 F		
RMC@Measured Temp.	0.690 @ 69 F		
Source RMF/RMC	CALCULATED		
RM@BHT	0.340 @ 95 F		
Time Circulation Stopped	2020-02-13 00:00		
Max Recorded Temp.	95	F	
Equipment/Base	TRK137	HAYS	
Recorded By	B.BAILEY		
Witnessed By	J.SMITH		

The customer is hereby warned that by providing the log data herein, STEP Energy Services does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. STEP Energy Services 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 STEP Energy Services 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 STEP Energy Services 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	3500.00	8.625	17.00	982.00	0.00

Run Number	1		
Date	2020-02-13		
Date/Time On Bottom	2020-02-13 02:59		
Depth to Fluid	0.0 Ft		
Salinity	5000.000		
RMF@BHT	0.290 @ 95 F		
RMC@BHT	0.390 @ 95 F		

Run Number 1

Comments

ALL PRESENTATIONS AS PER CUSTOMER REQUEST.

GRT, CNT, LDT, MLT, AND PIT RUN IN COMBINATION.

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

5.5" PRODUCTION CASING USED TO CALCULATE ANNULAR HOLE VOLUME.

CALIPERS ORIENTED ON X-Y AXIS.

PHIN IS CALIPER CORRECTED

DETAIL TO 2500 FT AS PER CLIENT REQUESTED

GRT: GRP

CNT: PHIN, PHINDOL, CLCNIN

LDT: PORL, PORLDOL, LCORN, LDENN, PECLN, CLLDIN

MLT: MSFI, MSFN, CLMRIN.

PIT: ILD, ILM, SFLAEC, SPU, CIRD

OPERATORS:

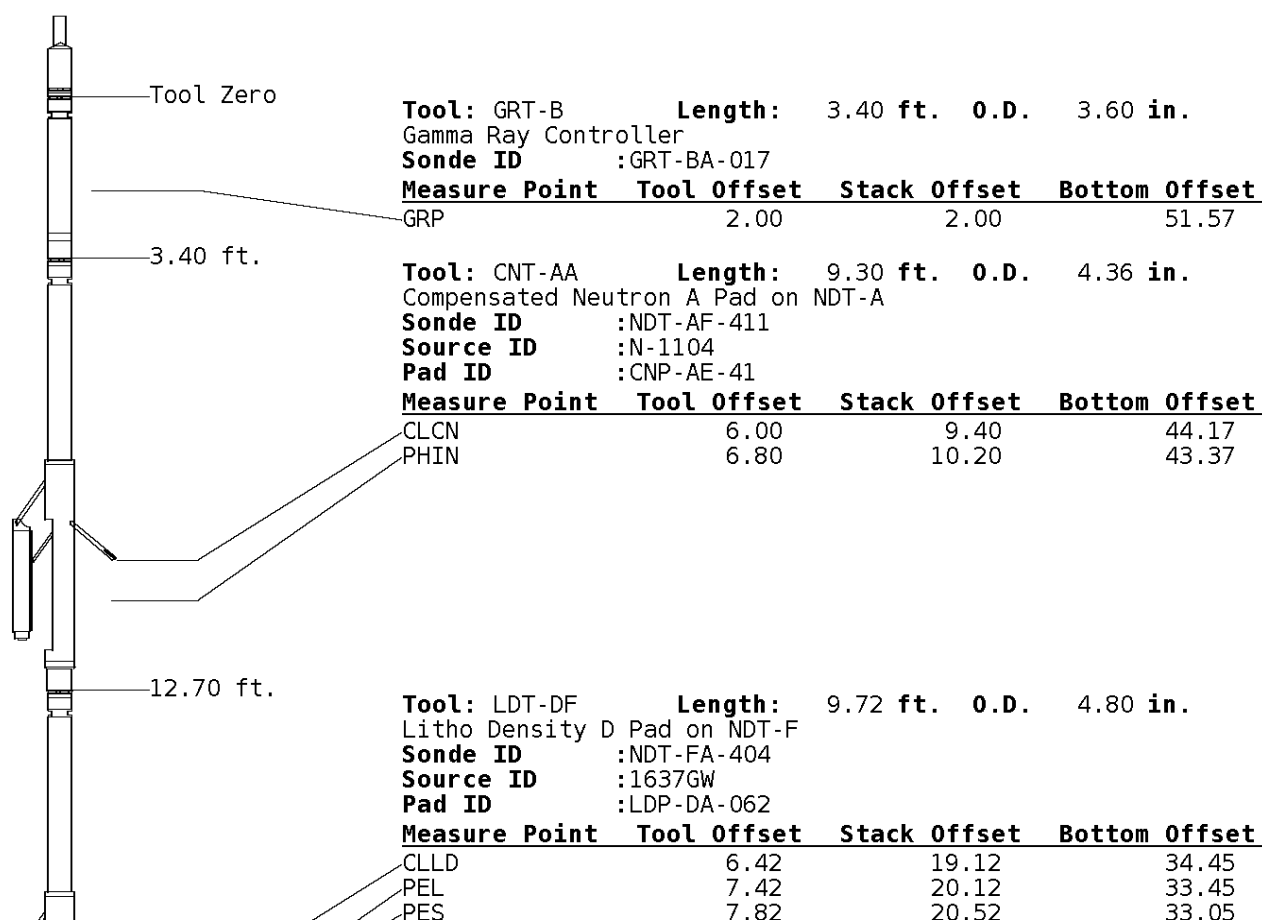
D.LEGLEGITER

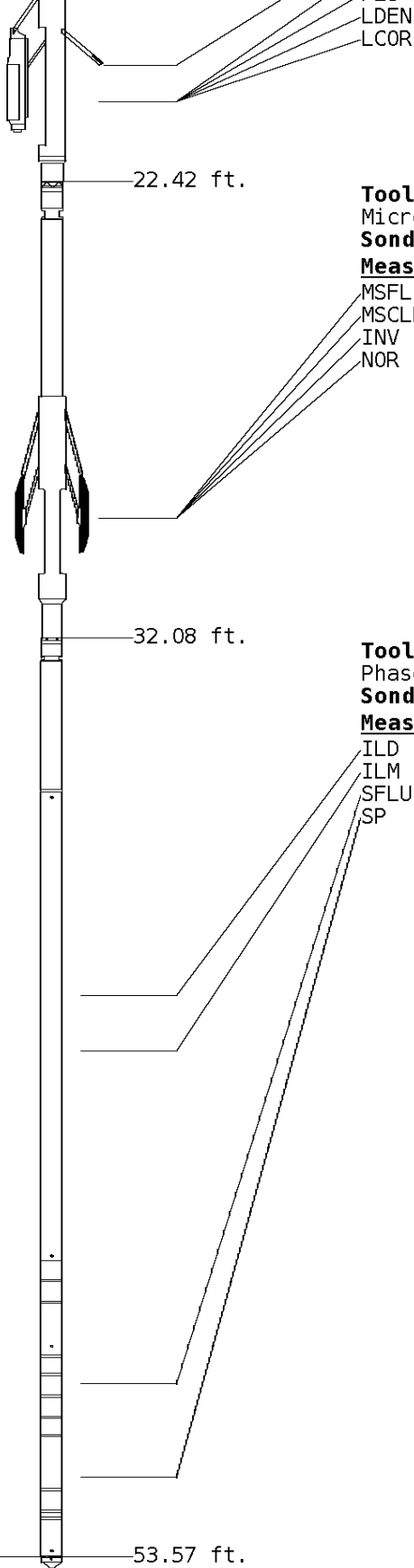
D.RAGSDALE

J.VAUGHN

Tool String Schematic

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





Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
 Micro Spherically Focused (IC)
Sonde ID :MST-DA-13

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

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-AC-043

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

Well File: BEREXCO CHRISLER 2 FEB-13_MSTK

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

Segment: V1.D1.S7 Reprocess MAIN

Acquired: 2020-02/13 02:58 3.4.1-13972

Reference: 0

Processed: 2020-02/13 04:20 3.4.1-13972

**BIT SIZE
INCHES (IN)**

6 16

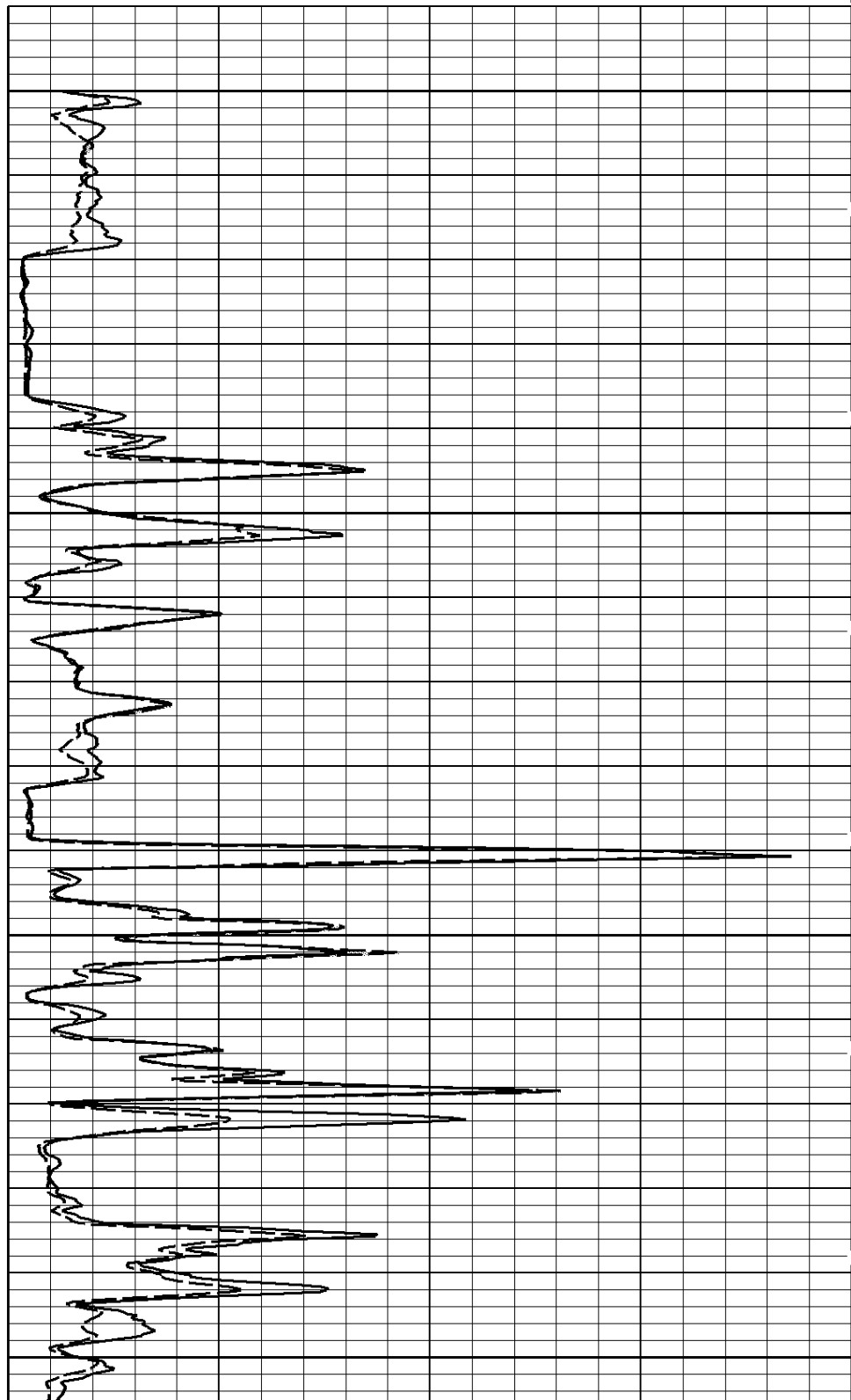
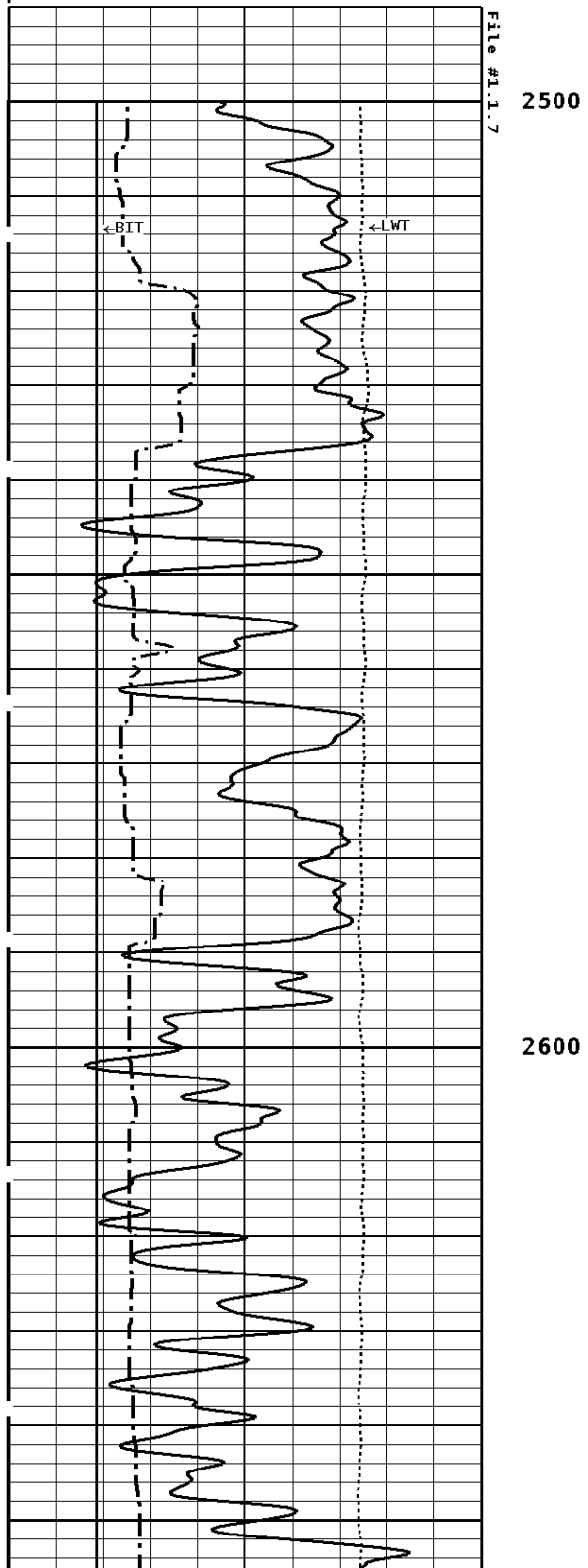
**CALIPER MICRO
INCHES (IN)**

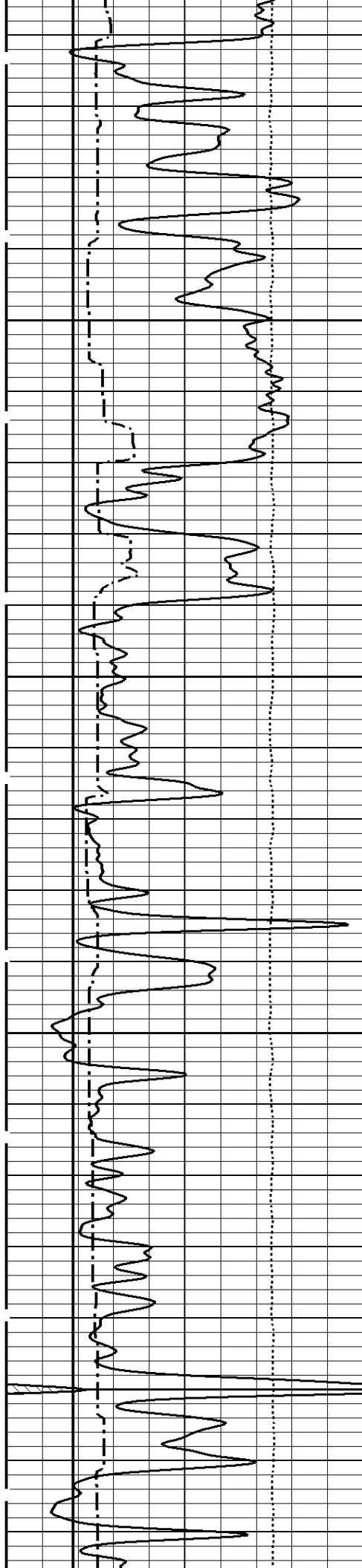
16 26

16	26
6	16
TENSION LBS	
10000	0
GAMMA RAY API UNITS	
150	300
0	150

INVERSE OHMM	
0	40
NORMAL OHMM	
0	40

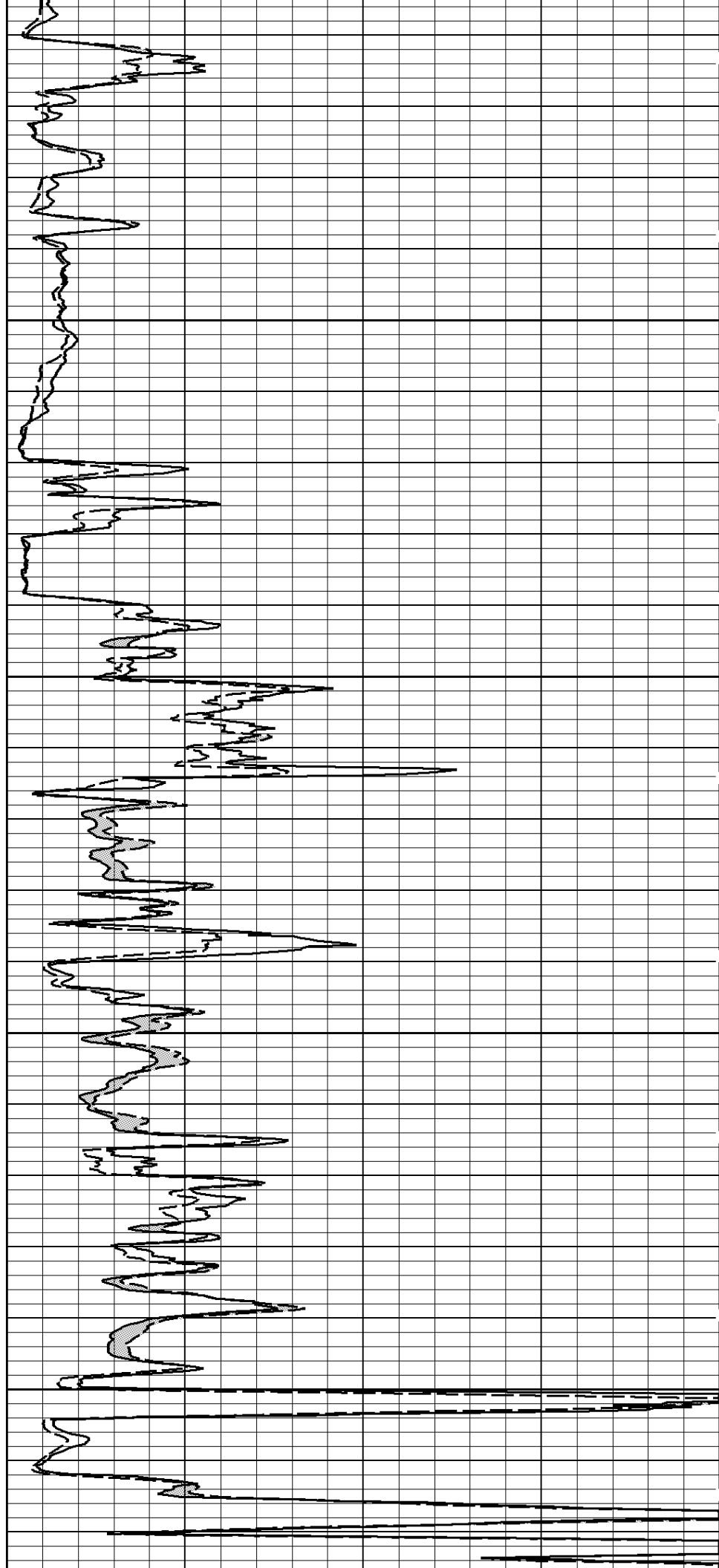
1:240 MAIN SECTION

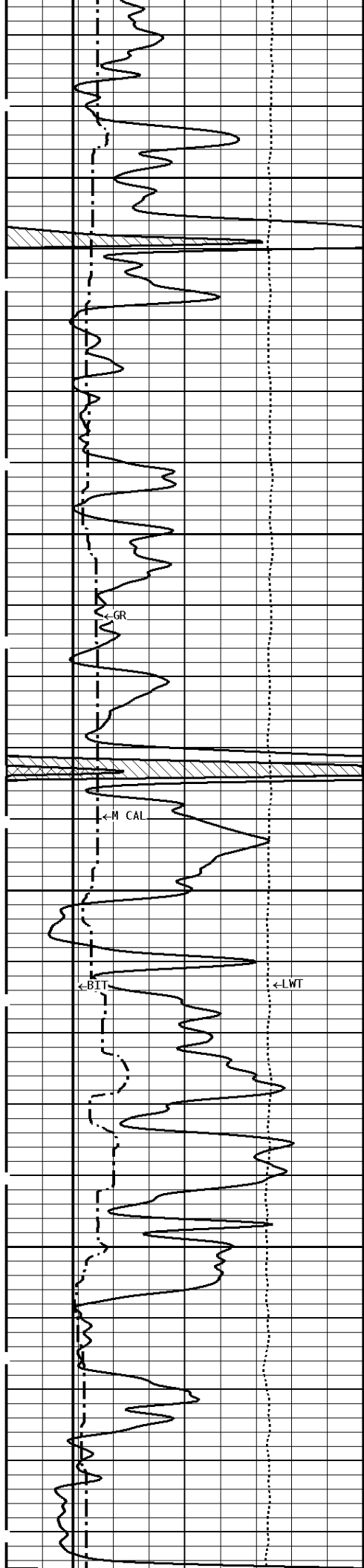




2700

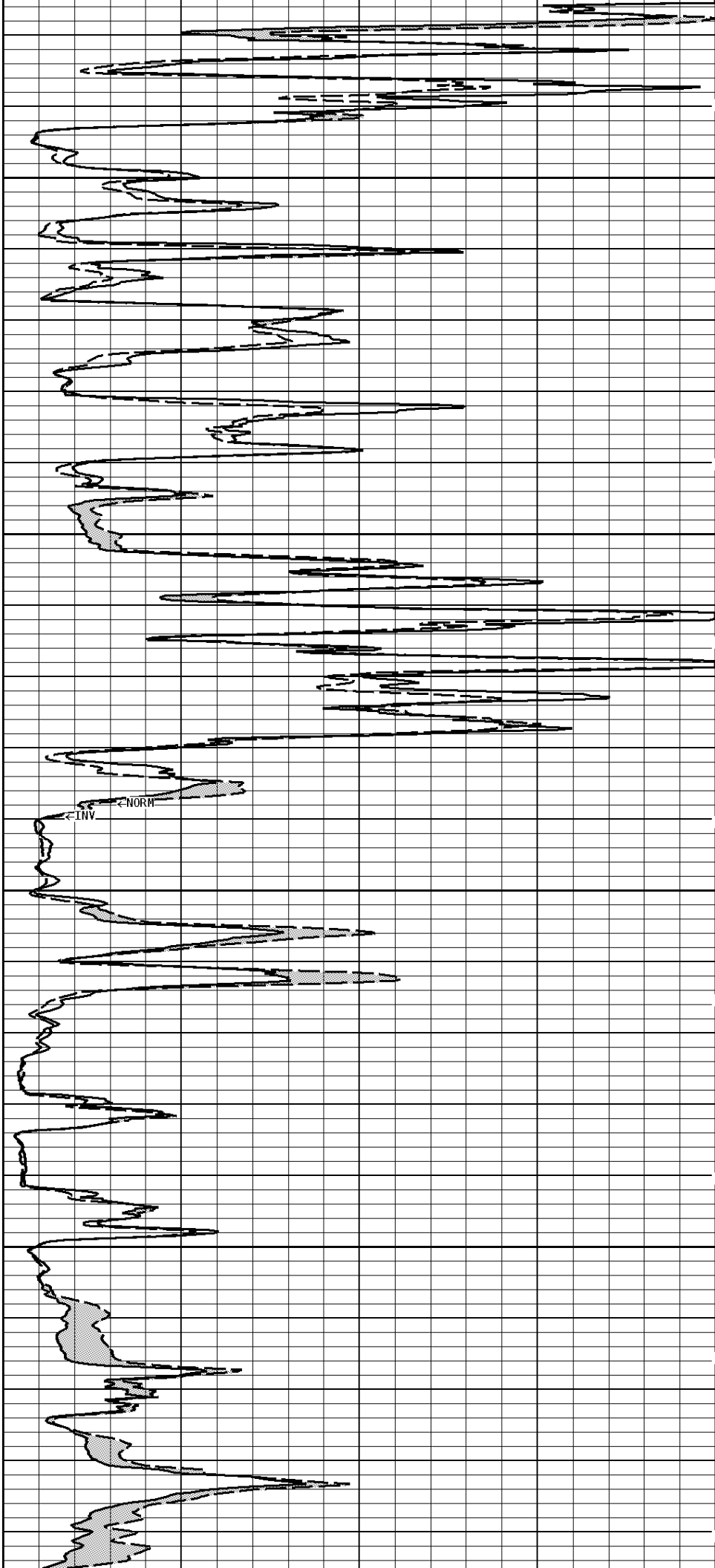
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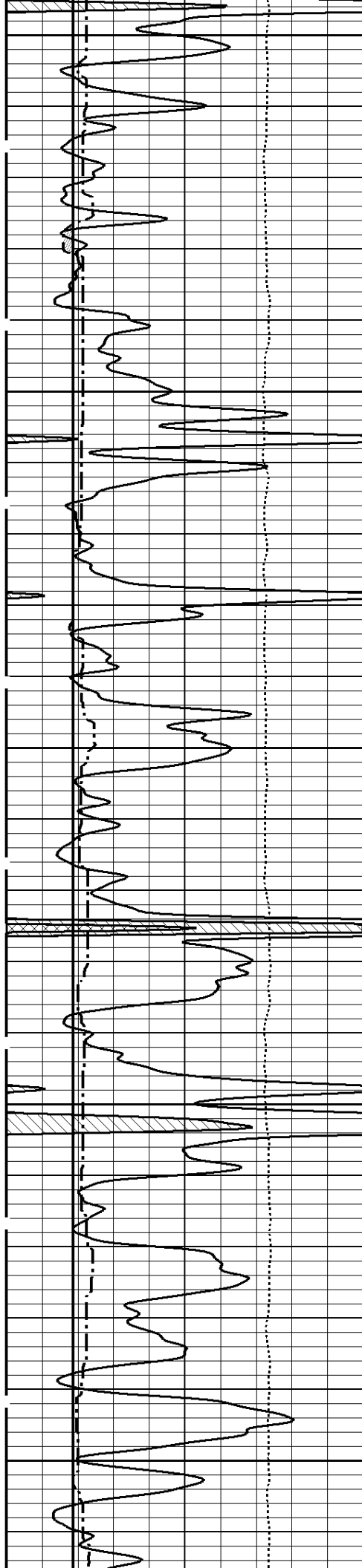




2900

3000

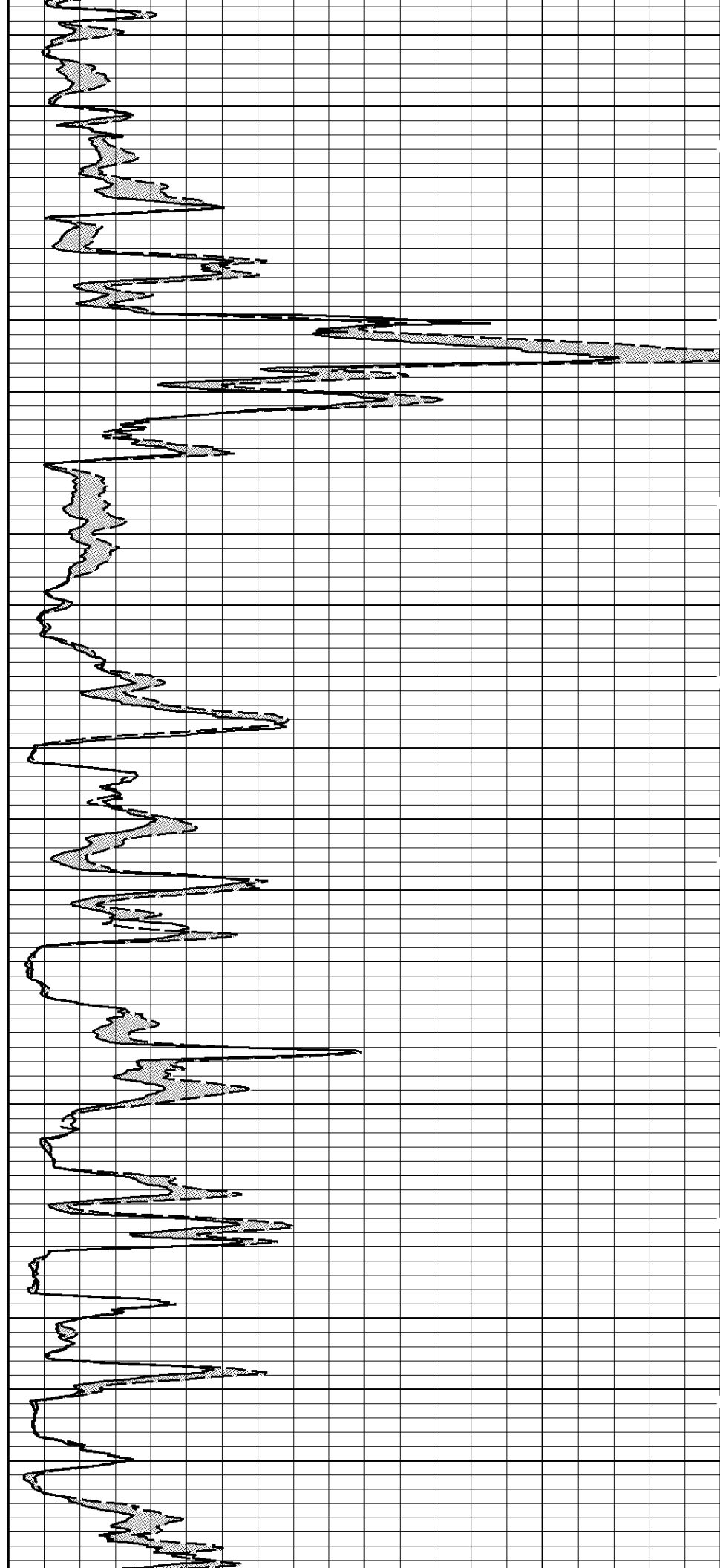


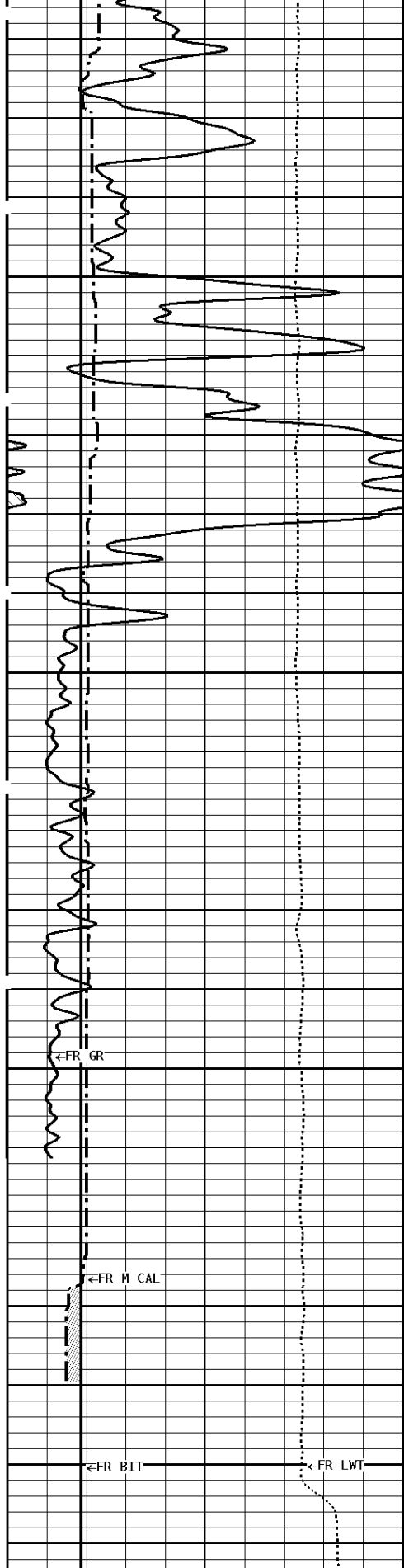


3100

3200

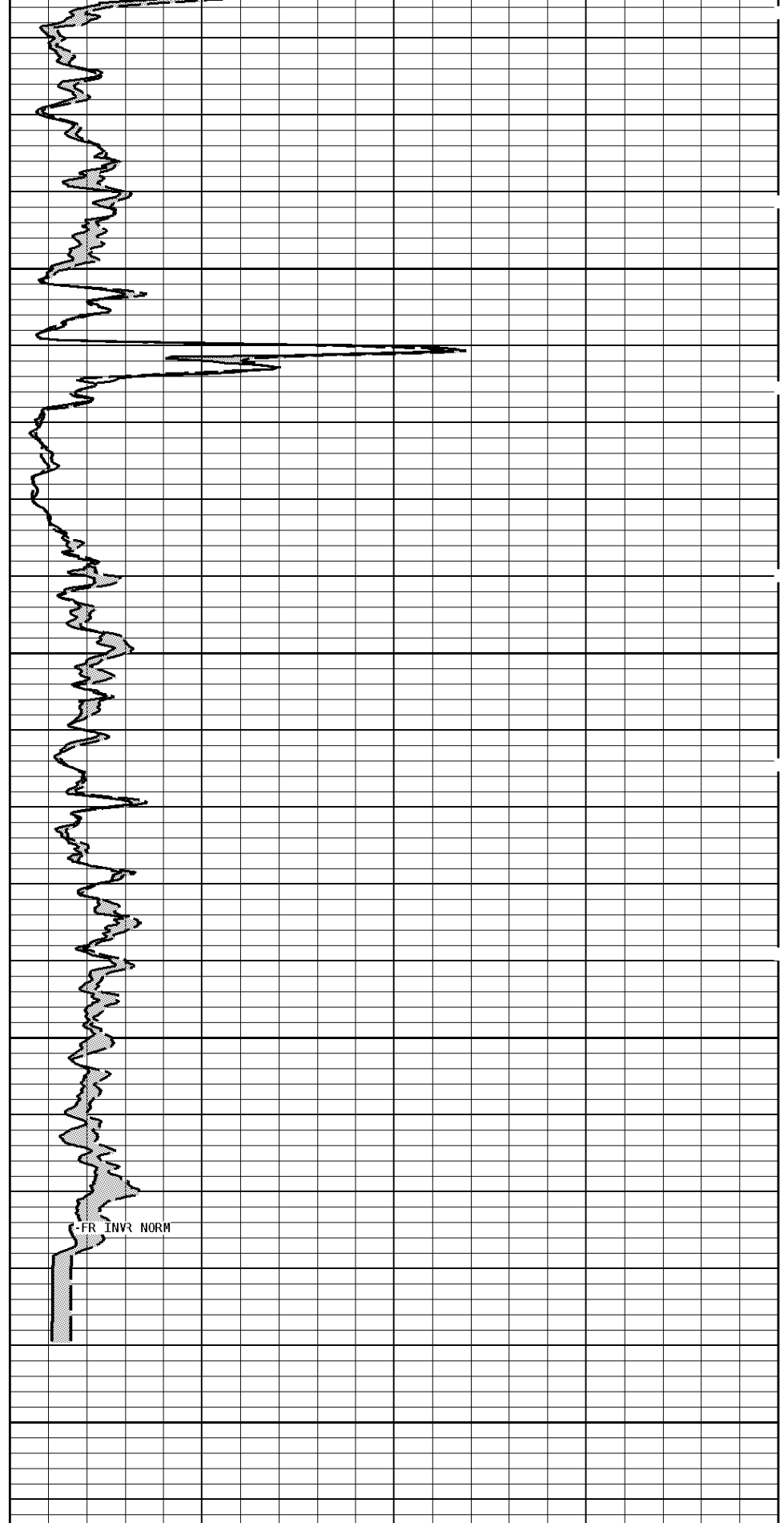
3300





3400

3500



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		0.00	ohmm
MSTNG Inverse Correction		0.00	ohmm

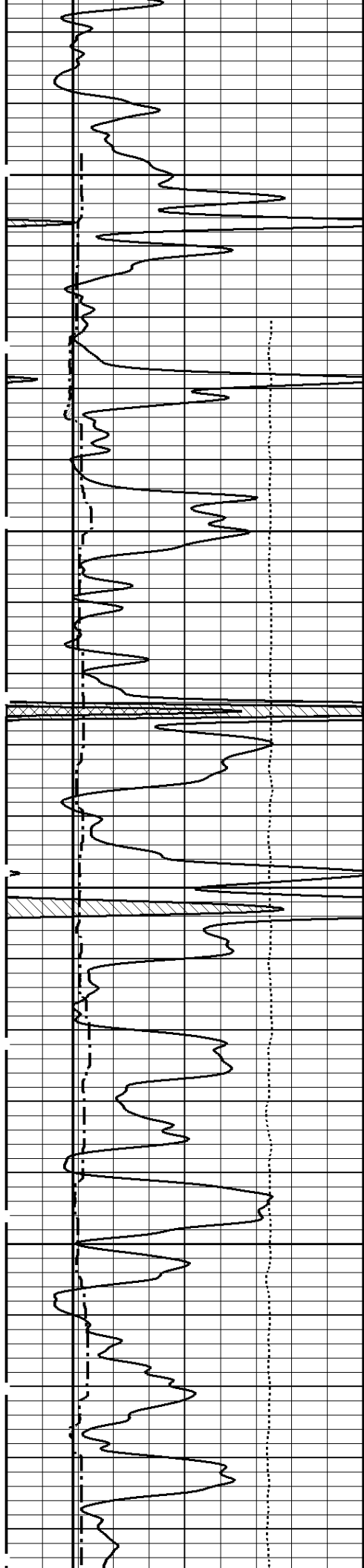
Well File: BEREXCO_CHRISLER_2_FEB-13_MSTK	Scale: 1:240	Format: MST-240
Segment: V1.D1.S9 REPEAT	Acquired: Not Available	
Reference: 0	Processed: Not Available	

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

INVERSE OHMM	
0	40
NORMAL OHMM	
0	40

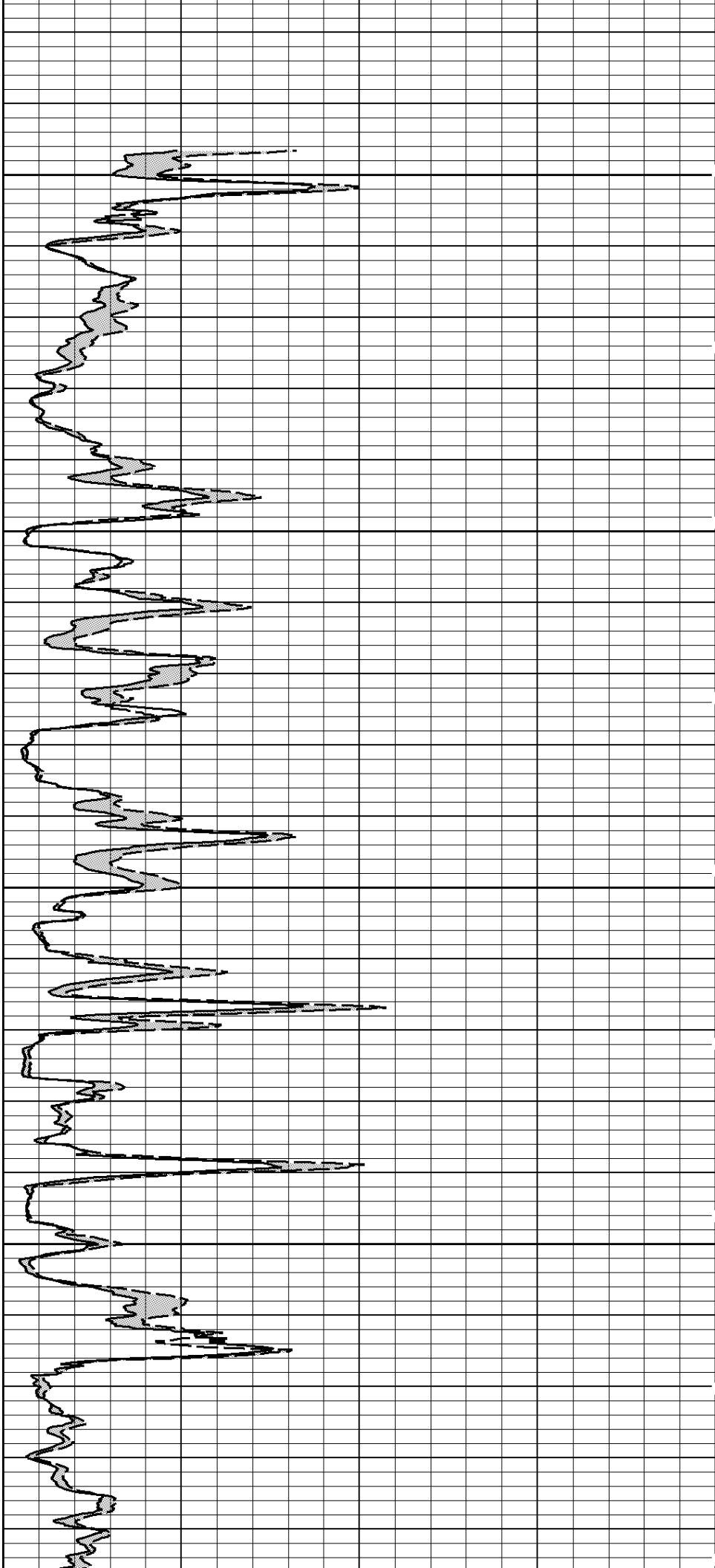
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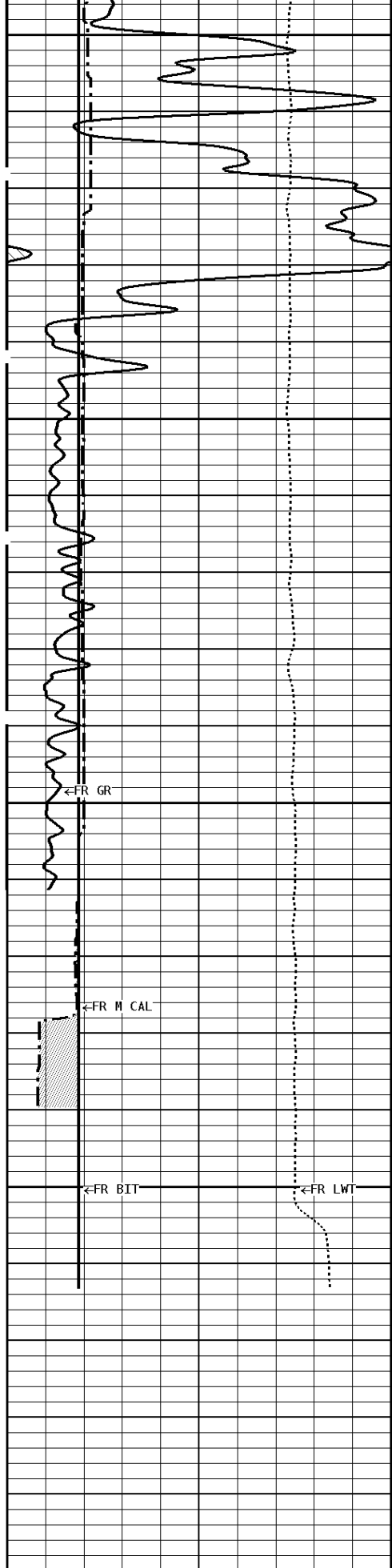
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3200

3300

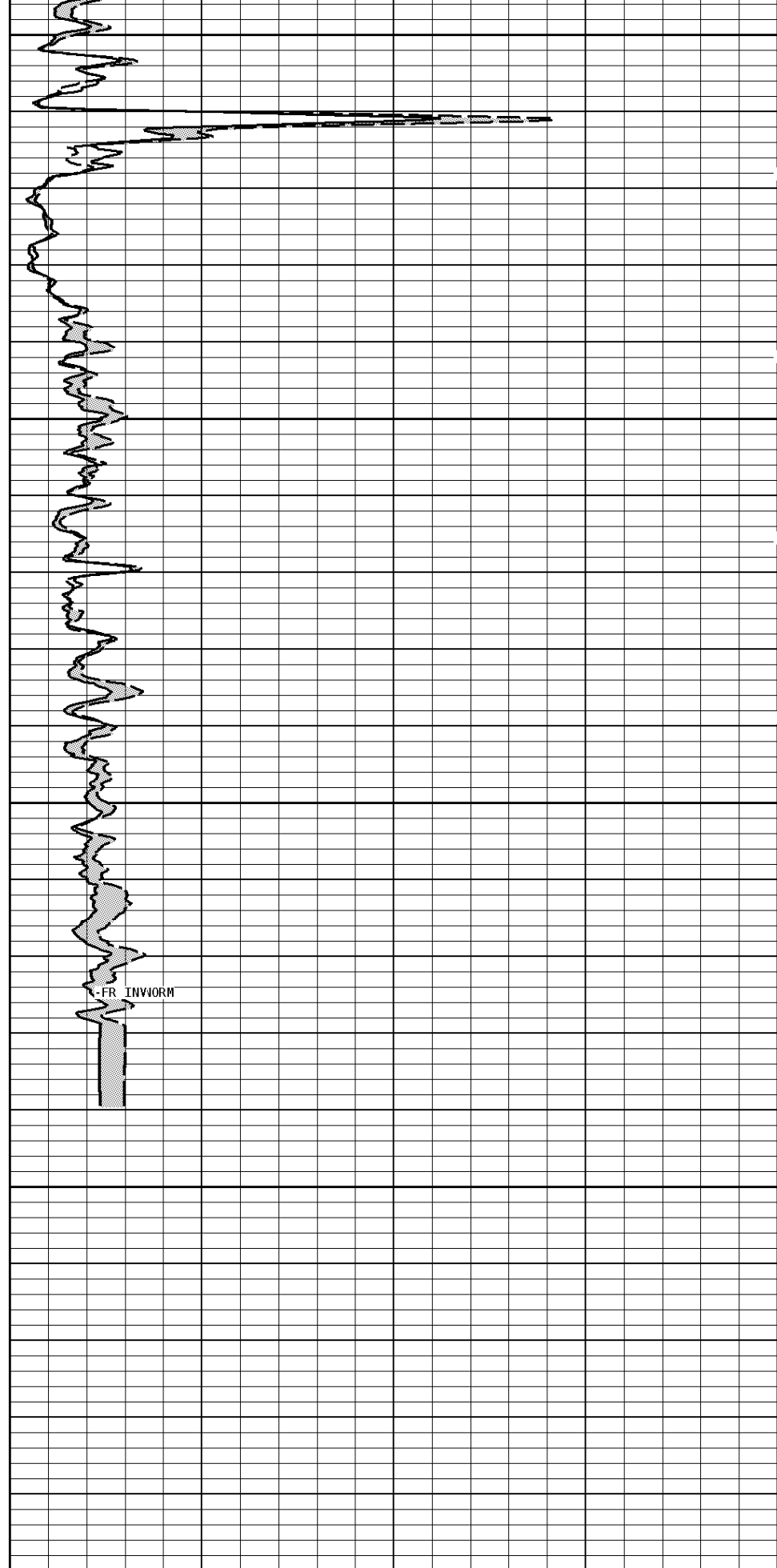




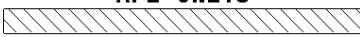
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3400

3500



1:240 REPEAT SECTION

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

NORMAL OHMM 0 40	
INVERSE OHMM 0 40	

*** Calibration Summary ***

Shop Calibration GRT-B Performed : 26-Nov-2018 Time : 11:34 Sensor Suite : GR-GR5 ID : GRT-BA-017						
GR	Background	Measured Jig 45 321	Units CPS	Calibrated Jig 160	Units GR-API	
Shop Calibration MST-DA Performed : 22-OCT-2014 Time : 09:27 Sensor Suite : CALI-MSN ID : MST-DA-13						
CL # 1	Jig - Measured Ring#1 Ring#2 6.6 11.6	Jig - Calibrated Ring#1 Ring#2 6.0 12.0	Units IN.			
Performed : 07-FEB-2020 Time : 09:52 Sensor Suite : MSTDA-NI ID : MST-DA-13						
	Internal					
	Zero	Measured Reference	Units	Zero	Calibrated Reference	Units
INV-V	0.0	29663.4		0.00	1276.00	MV
NOR-V	5.5	29968.6		0.00	1020.00	MV
IN-C	0.0	60262.5		0.00	15.46	UA
INV-R					26.70	OHMM
NOR-R					36.36	OHMM

STEP
energy services

Company: BEREXCO, LLC
Well: CHRISLER #2
Location: 1240' FSL & 930' FWL
Logged: 2020-02-13
K.B. Elev: 1826.0 Ft