

Tucker

WIRELINER SERVICES

SPECTRAL GAMMA RAY LOG

Company LB EXPLORATION INC. Well WOLKINS #15-1 Field MEDICINE LODGE-BOGGS County BARBER State KANSAS Country USA API No. 15-007-23860-00-00		File No : TUL-57682 Company : LB EXPLORATION INC. Well : WOLKINS #15-1 Field : MEDICINE LODGE-BOGGS County : BARBER State : KANSAS Country : USA API No : 15-007-23860-00-00	
Location : 660' FSL & 330' FEL E2 SE SE		LSD : Sect : 15 Twp : 33S Rge : 13W	
Permanent Datum:	GL	Elevations:	Services:
Drilling Measured From:	KB	KB 1612.00	SGT
Log Measured From:	KB	DF 1611.00	CNT
Above Permanent Datum:	13.00 Ft	GL 1599.00	LDT
Date	04-11-2012		
Run Number	1		
Depth--Driller	5150.0	Ft	
Depth--Logger	5150.0	Ft	
First Reading	5085.0	Ft	
Last Reading	2500.0	Ft	
Casing--Driller	356.0	Ft	
Casing--Logger	355.0	Ft	
Bit Size	7.875	In	
Casing Size	8.625	In	
Hole Fluid Type	WBM		
Density	9.5	LBS/GAL	
Fluid Loss	22.0	CC	
PH/Viscosity	8.0	58.0 SEC	
Sample Source	MEASURED		
RMF@Measured Temp.	0.450	@ 68 F	
RMF@Measured Temp	0.380	@ 68 F	
RMF@Measured Temp.	0.520	@ 68 F	
Source RMF/RMC	CALCULATED/CALCULATED		
RM@BHT	0.230	@ 138 F	
Time Circulation Stopped			
Max Recorded Temp.	138	F	
Equipment/Base	123	TULSA	
Recorded By	R. FRANKLIN, S. DAVIS		
Witnessed By	S. PETERMANN		

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.

Bitsize Intervals		Casing Strings		
Size (In)	Bottom (Ft)	Size (In)	Weight (Lbs)	Bottom (Ft)
7.875	5150.00	8.625	32.00	356.00

Run Number	1	
Date	04-11-2012	
Date/Time On Bottom	04-11-2012 15:15	
Depth to Fluid	0.0 Ft	
Salinity	0.000 PPM	
RMF@BHT	0.190 @ 138 F	
RMC@BHT	0.270 @ 138 F	

Run Number 1

Comments

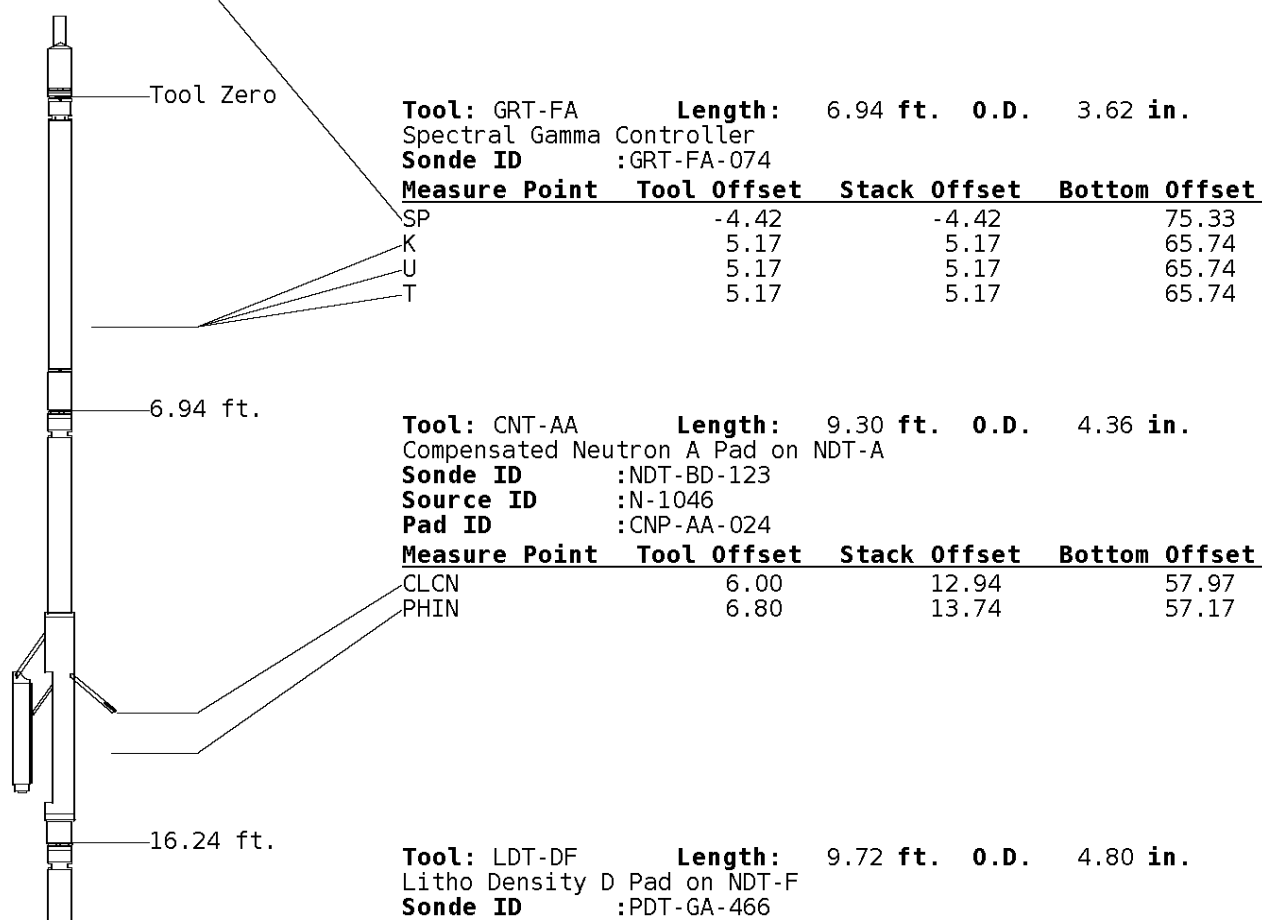
ALL PRESENTATIONS AS PER CUSTOMER REQUEST.
 SGT, CNT, LDT, MLT, CST, AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON X-Y AXIS.
 2.71 G/CC USED TO CALCULATED POROSITY.
 ANNULAR HOLE VOLUME CALCULATED USING 5.50" PRODUCTION CASING.
 PHIN IS CALIPER CORRECETD.

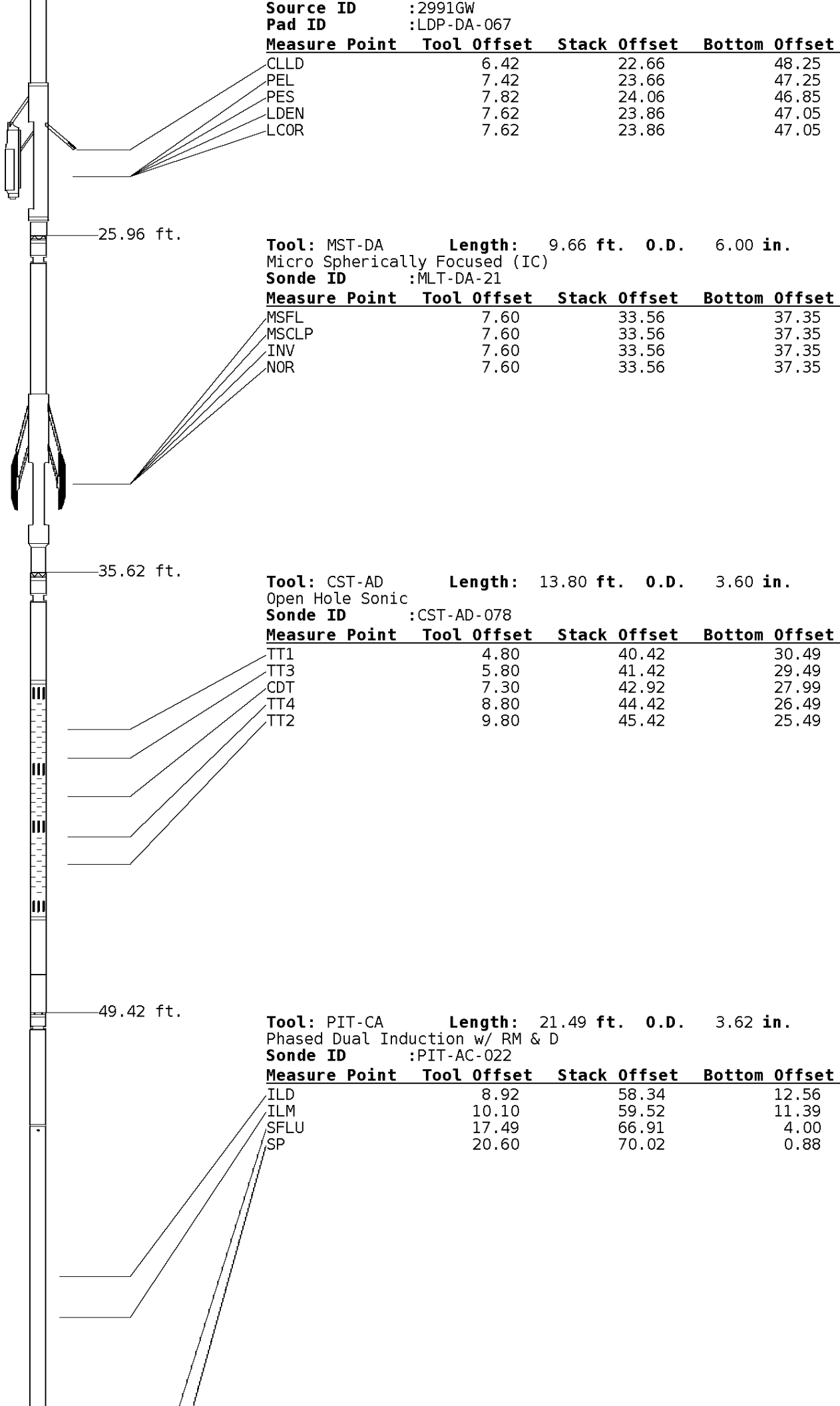
GRT: GRP, GRX, UFGRP, S-KK, S-TK, S-UK.
 CNT: PHIN, CLCNIN, PHXN,
 LDT: PORL, PXRL, LCORN, LCORNX, PECLN, PECLNX, LDENN, LDENNX, PORLLS, CLLDIN.
 MLT: NOR_RF, INV_RF, MSCLPIN.
 CST: PORL, CDTF, ITT, TT1PF, TT2PF, TT3PF, TT4PF.
 PIT: ILD, ILM, SPU, SFLAEC.

OPERATORS:
 N. LOYD
 B. STEPHENS

Tool String Schematic

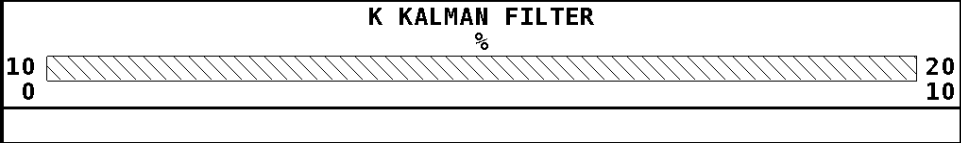
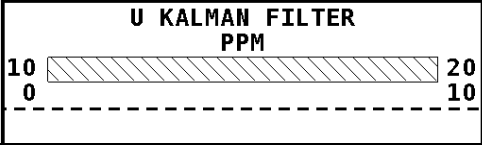
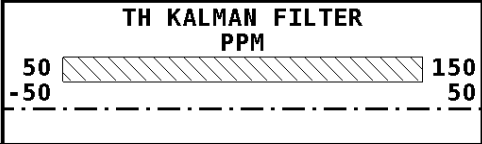
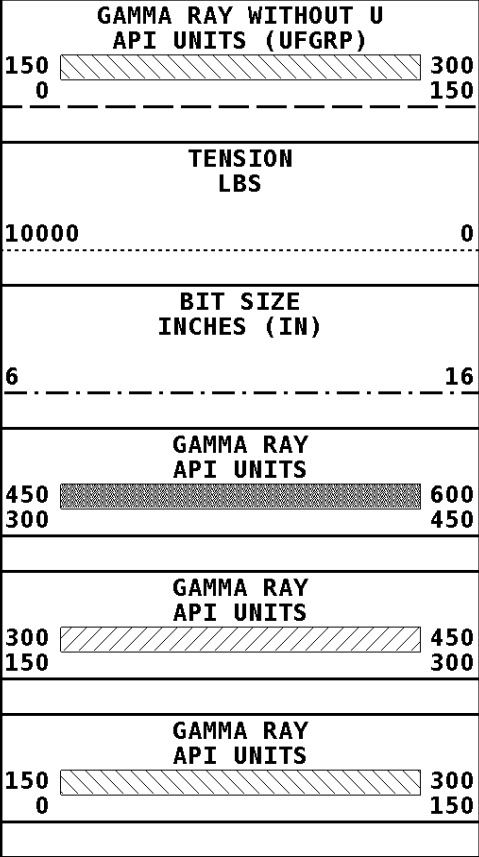
Total Tool Length - 70.91 ft.
Maximum Outside diameter - 6.00 in.
Net Weight in Air - 1202.00 lbs.



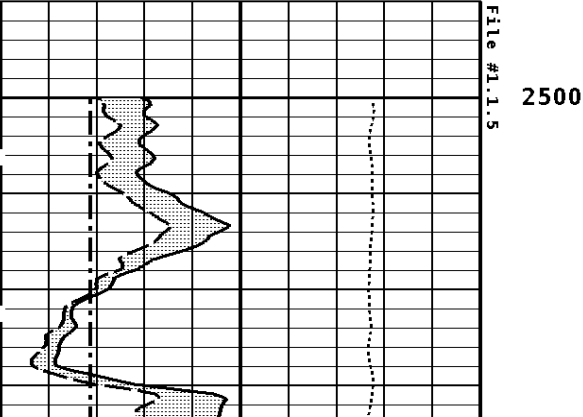


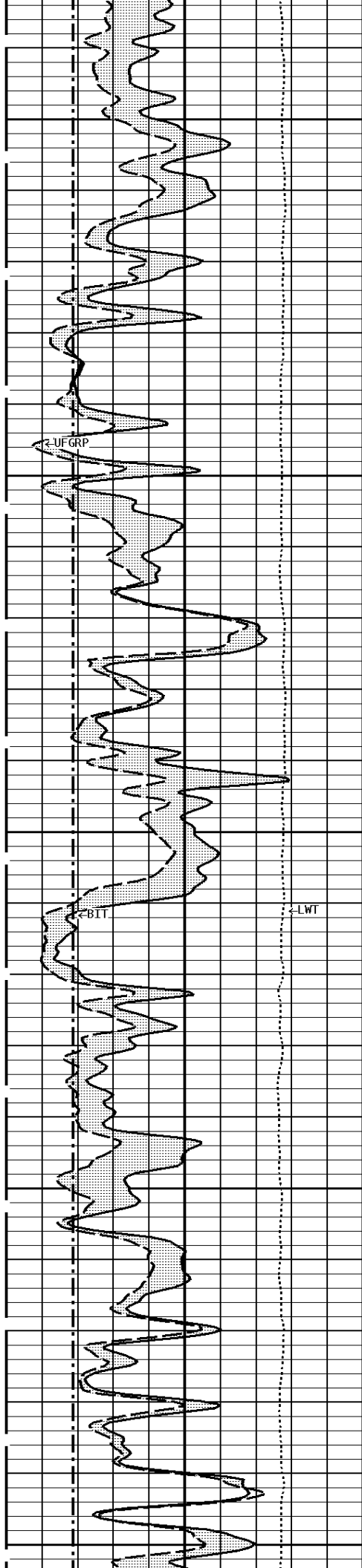


Well File: LBE WOL 15-1 APR 11 SGTQUINT Scale: 1:240
Segment: V1.D1.S5 MAIN Acquired: 2012-04/11 15:34 3.2.0-10367
Reference: 0 Processed: 2012-04/11 19:08 3.2.0-10367



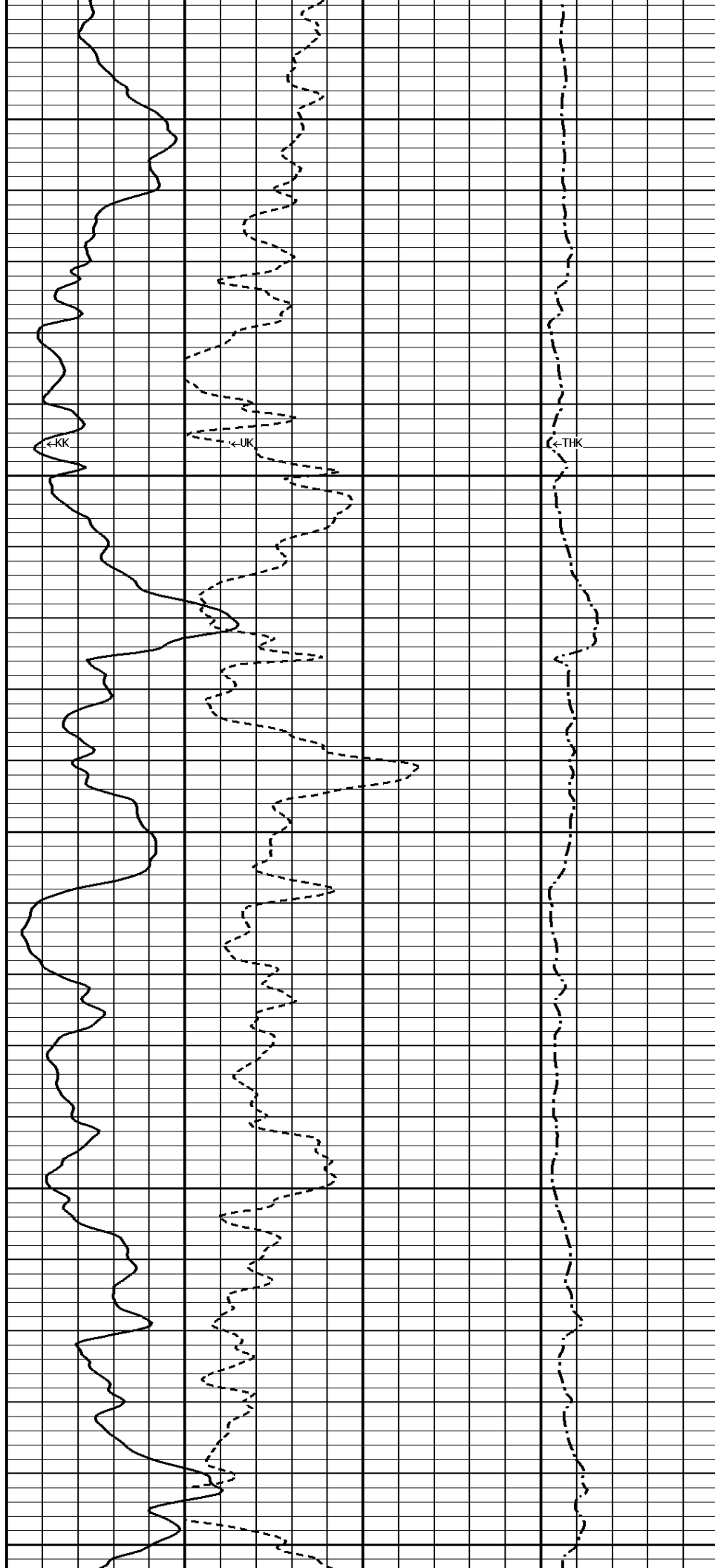
1:240 MAIN SECTION

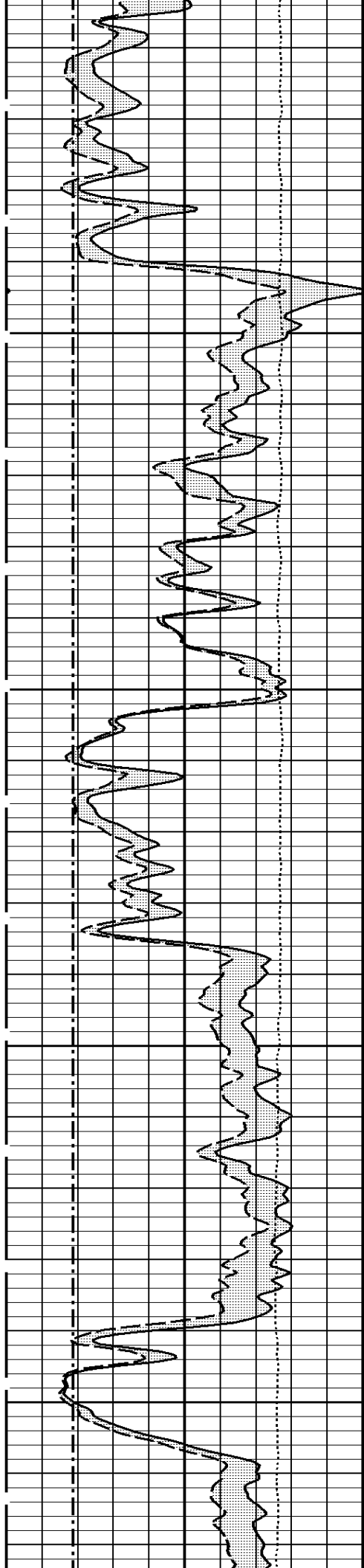




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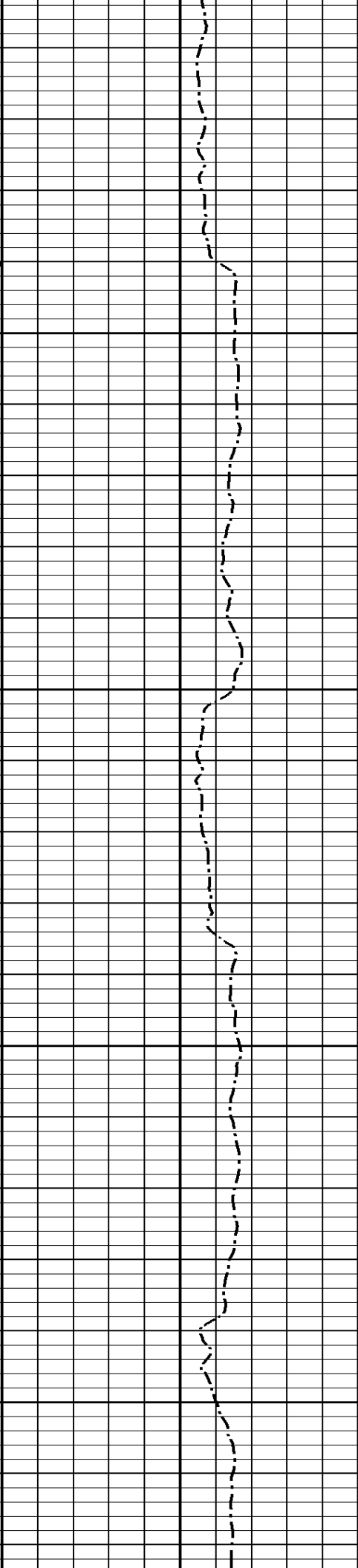
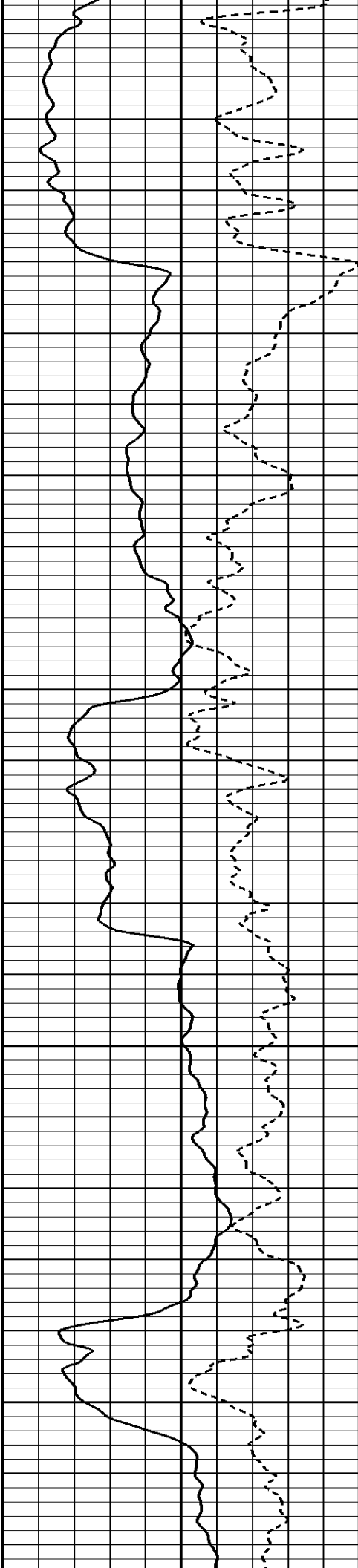
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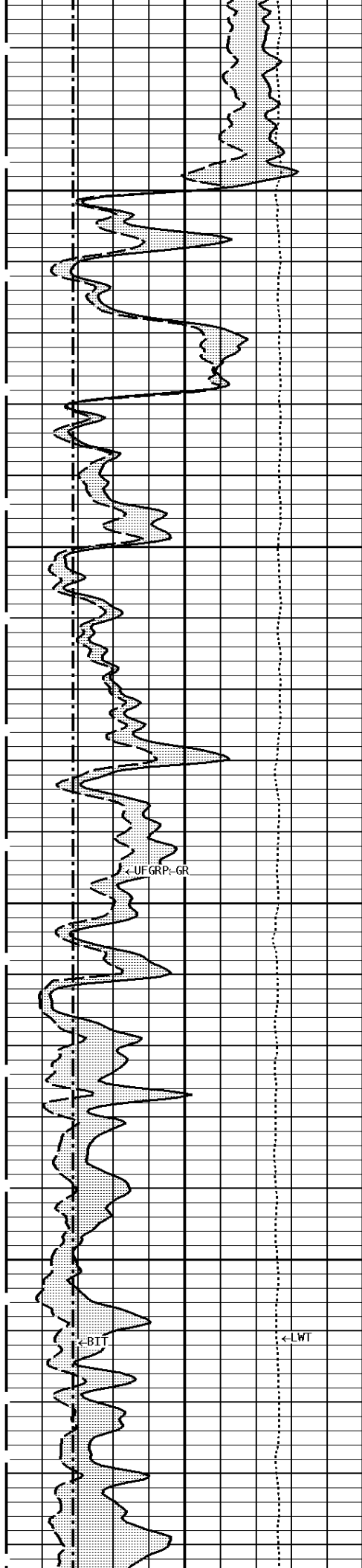




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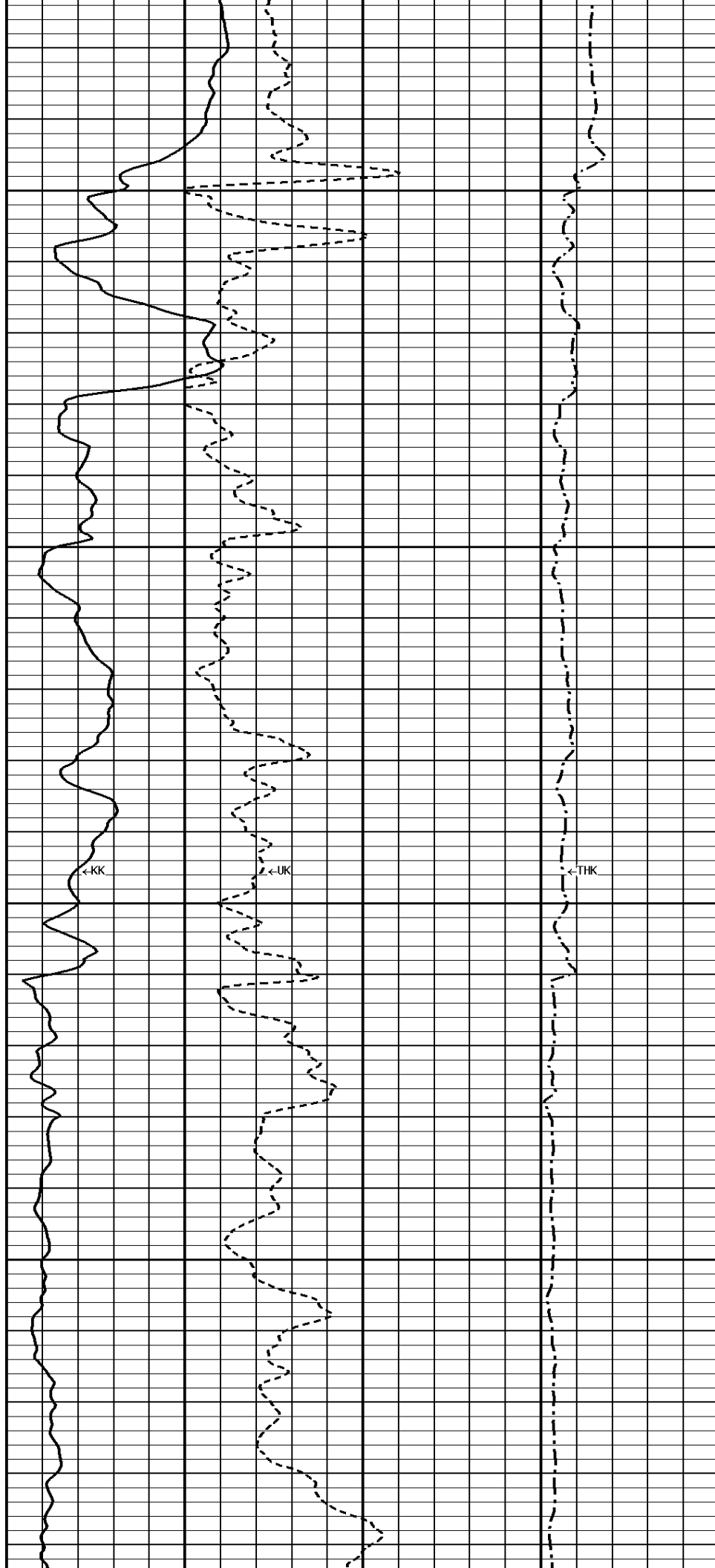
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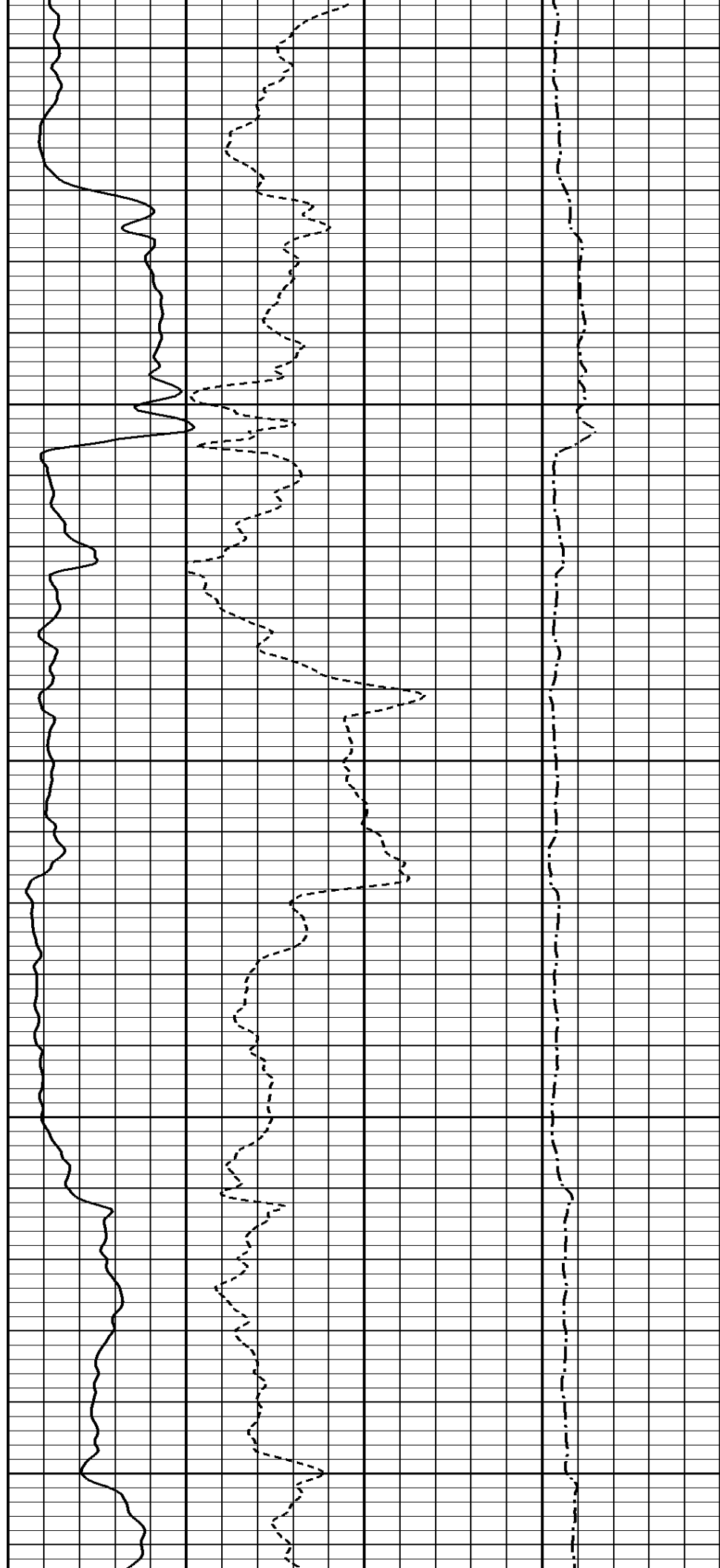
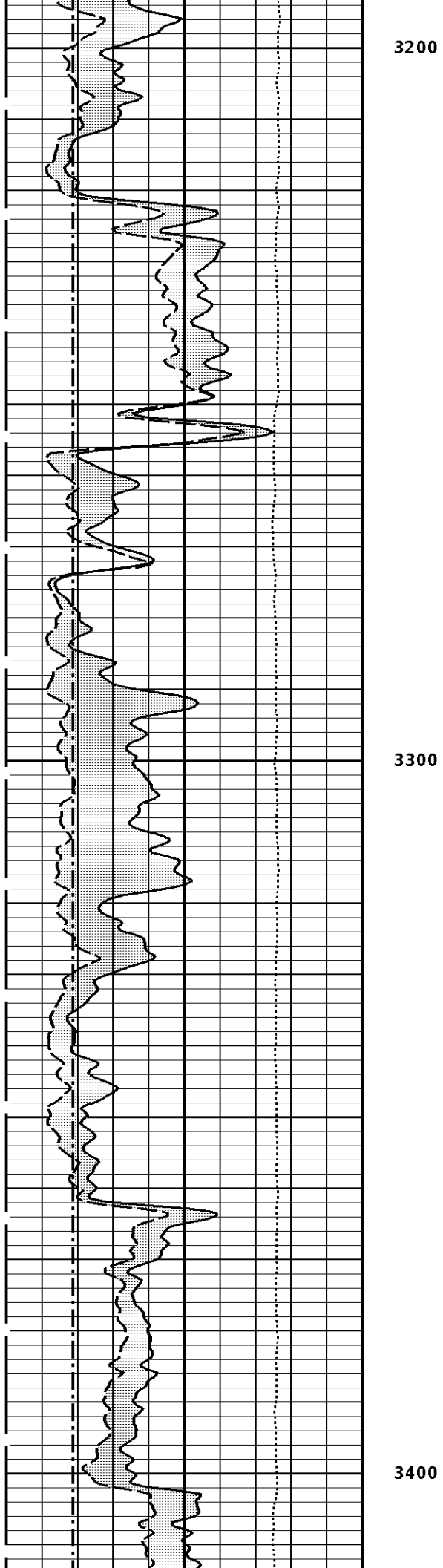


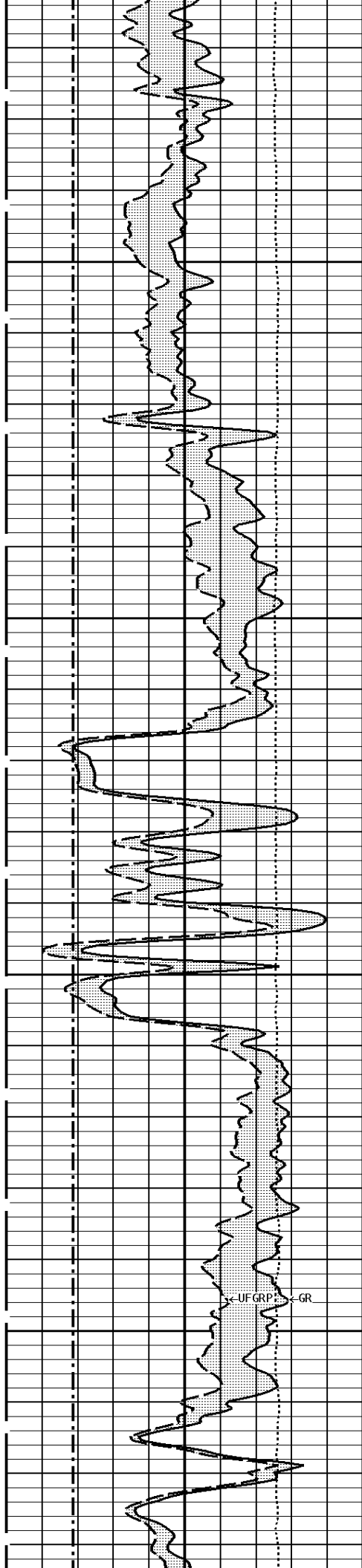


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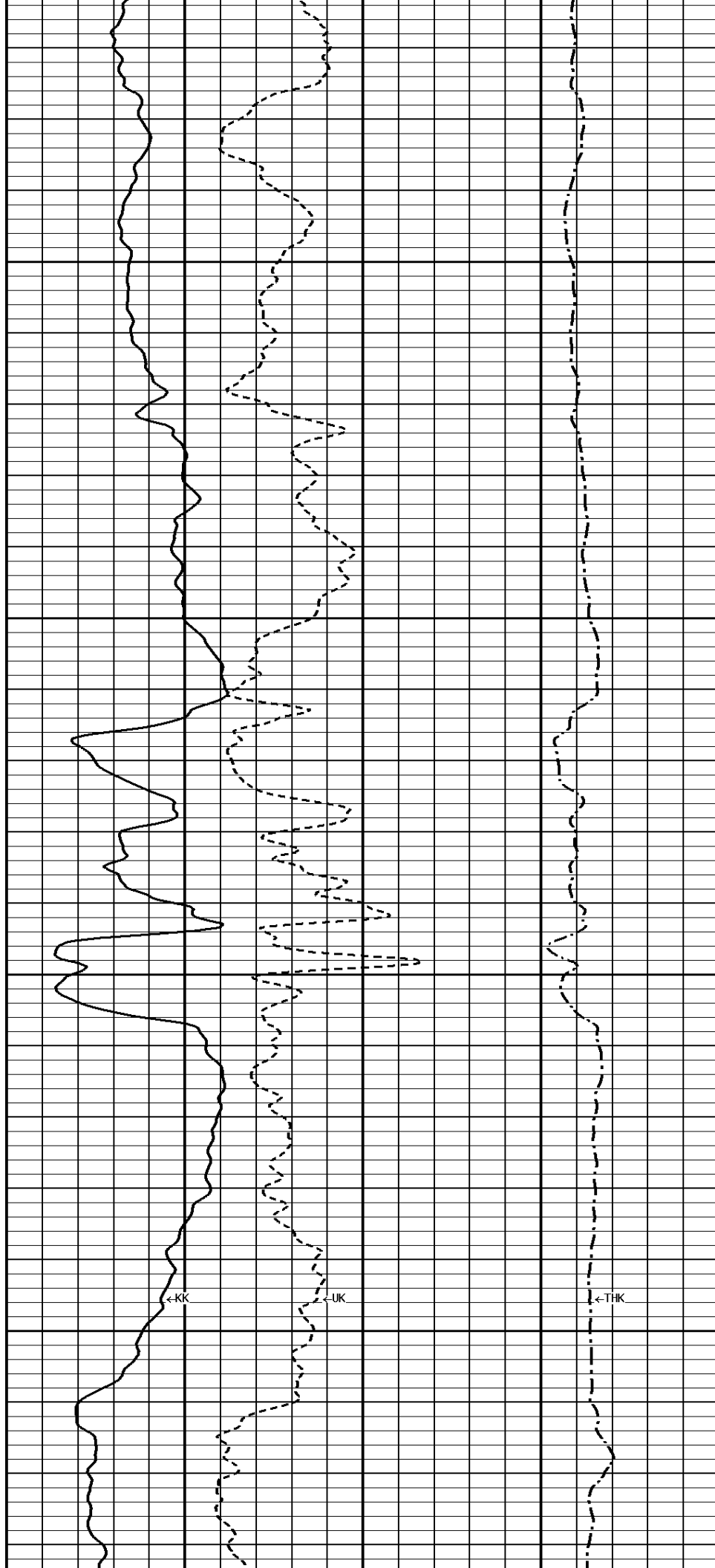


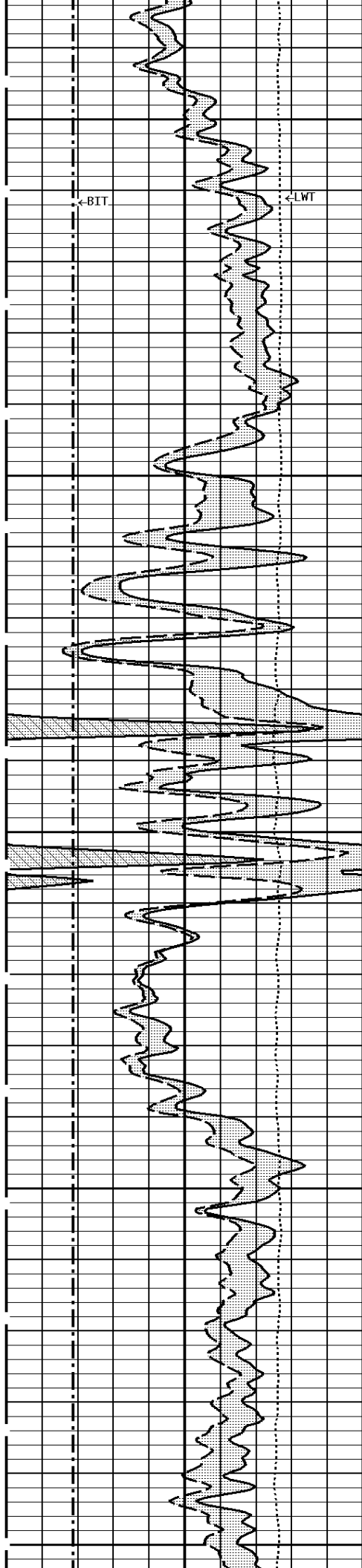




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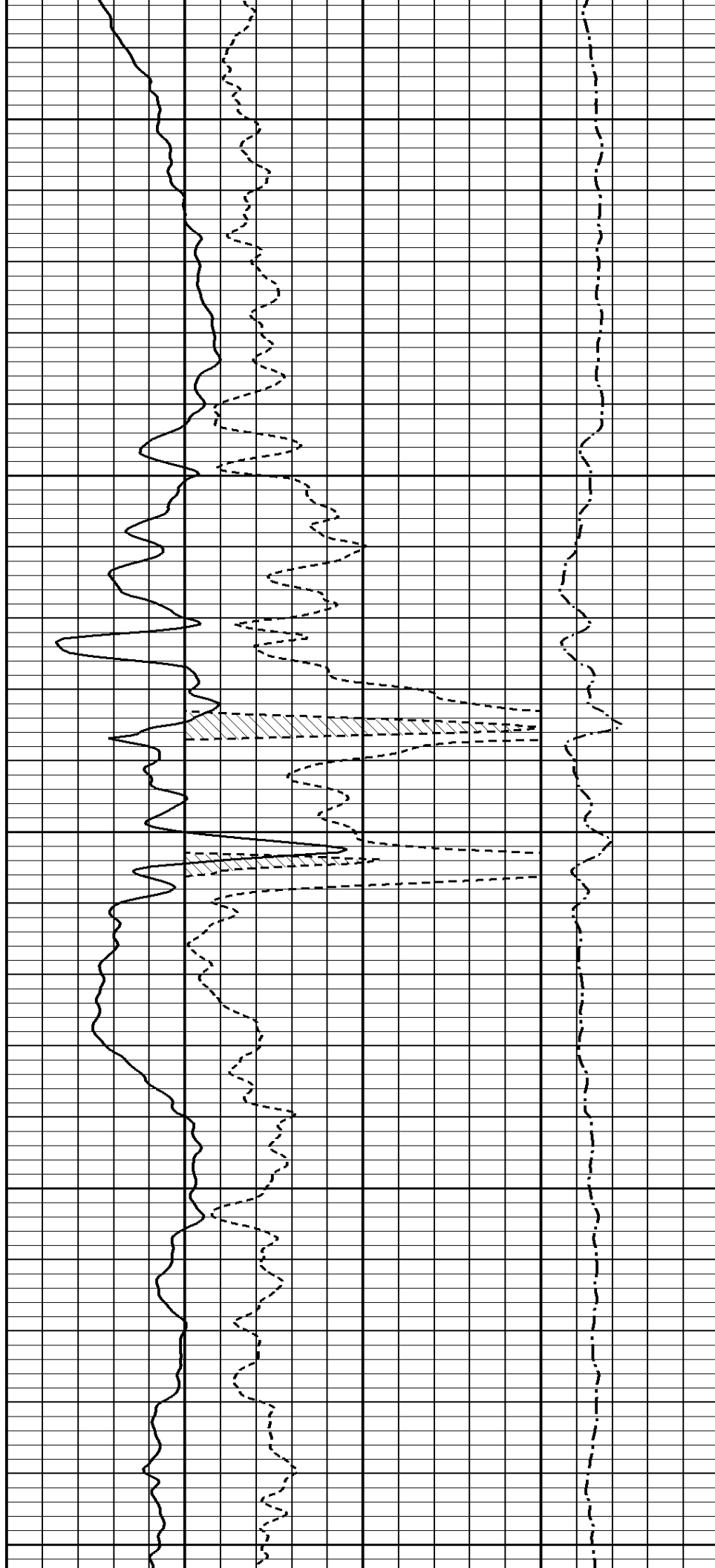
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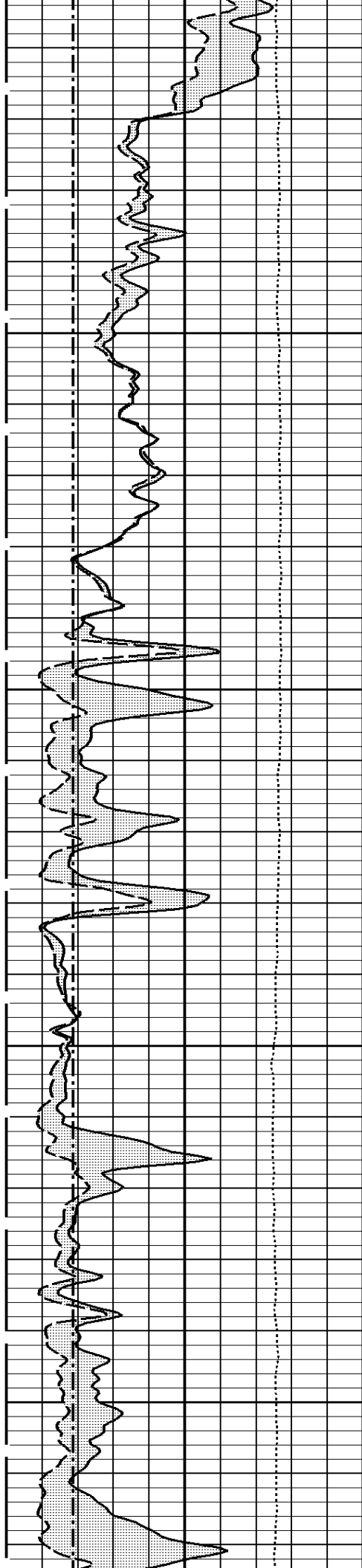




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3800

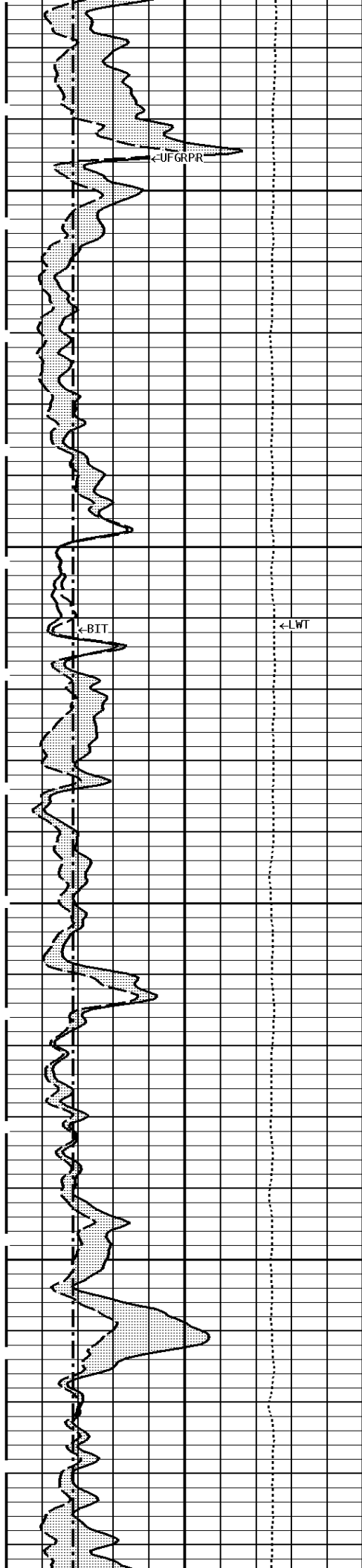




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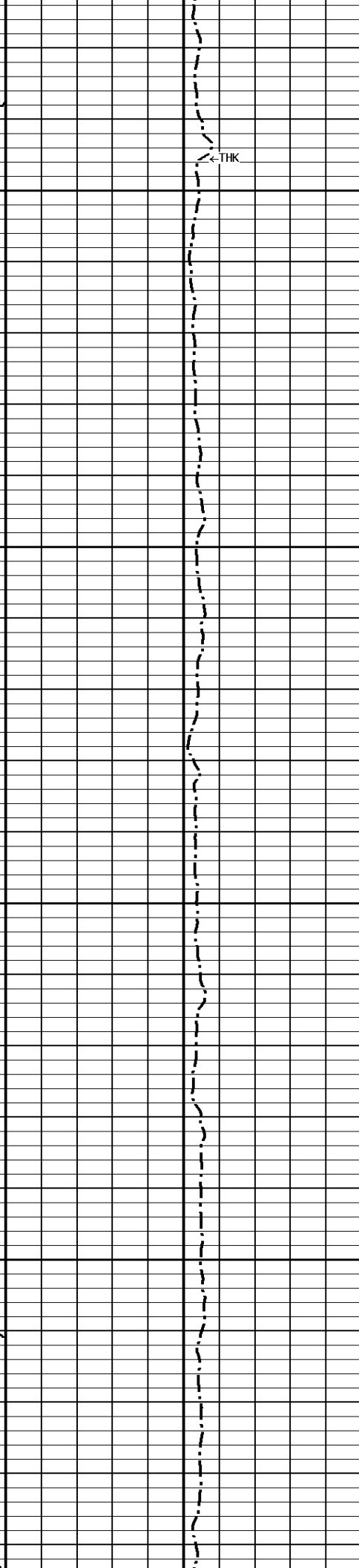
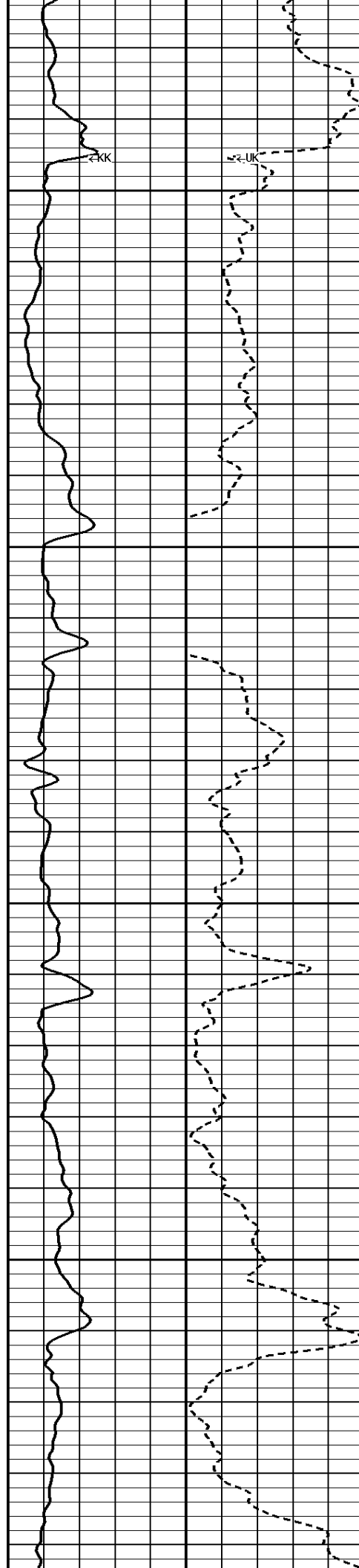
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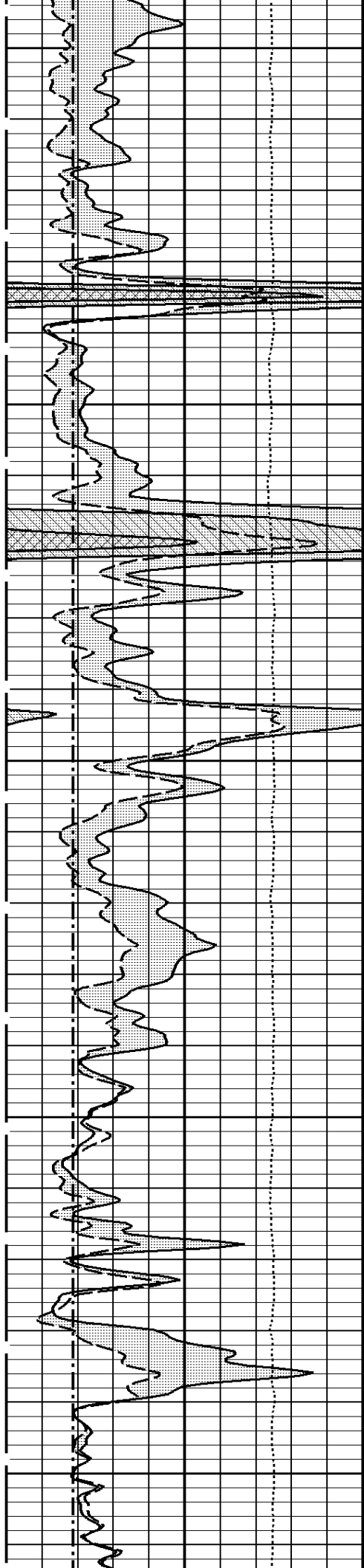




4100

4200

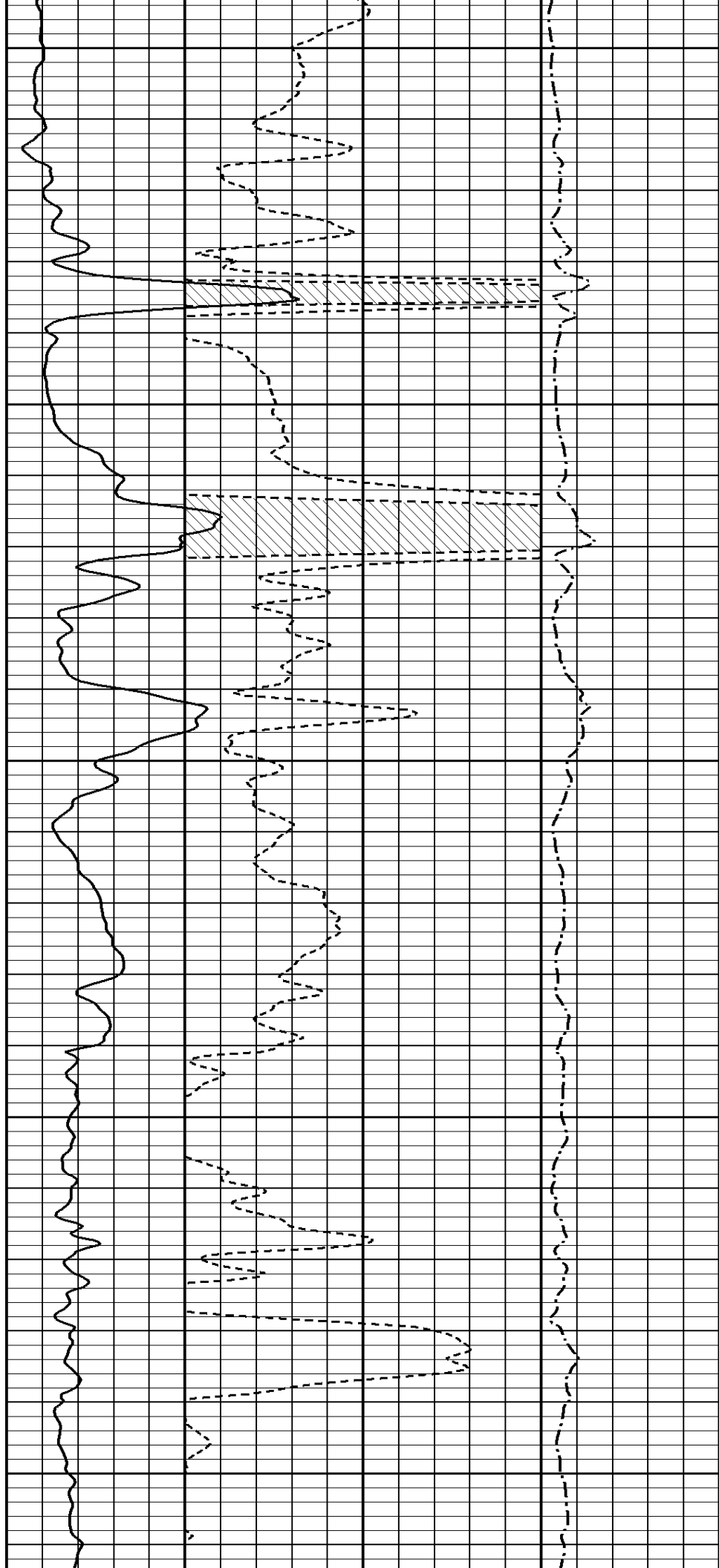


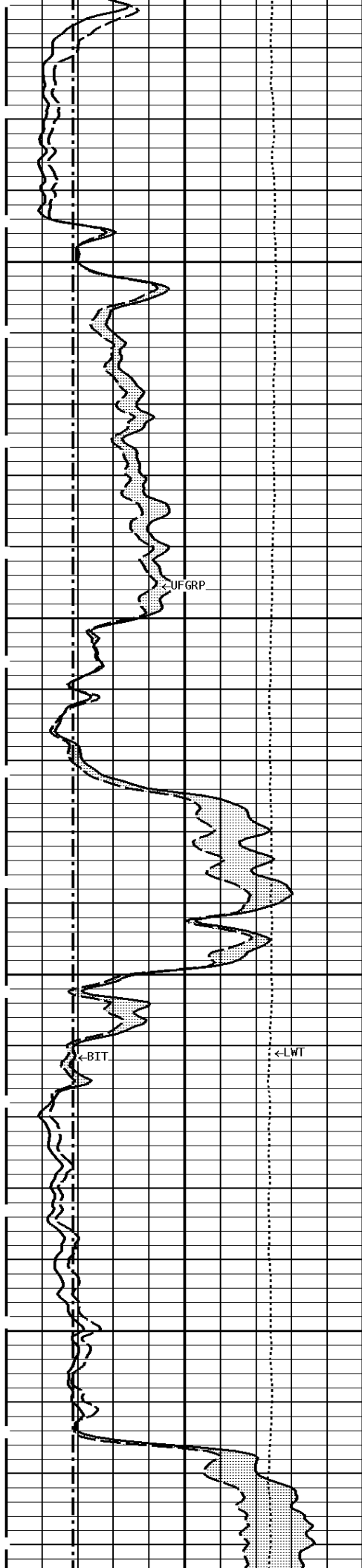


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4400

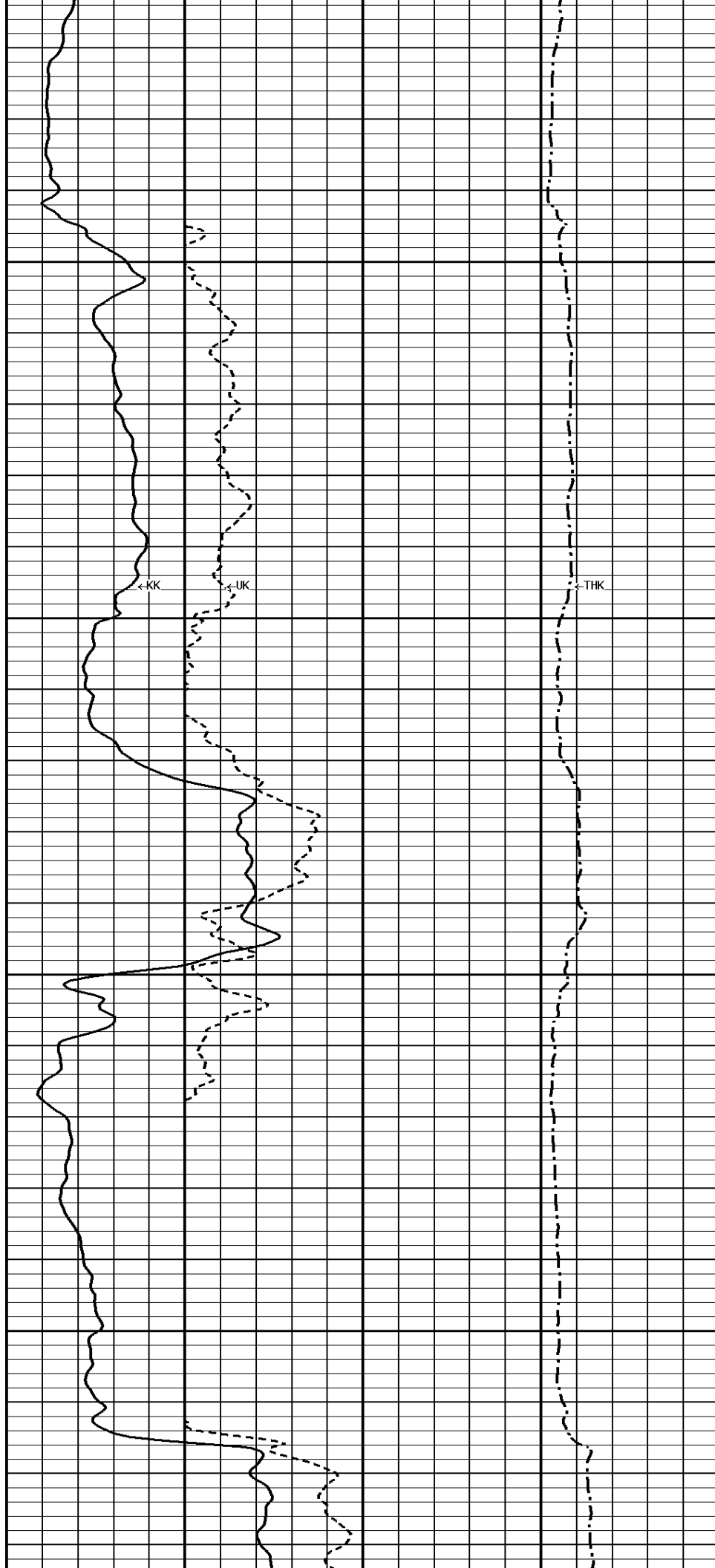
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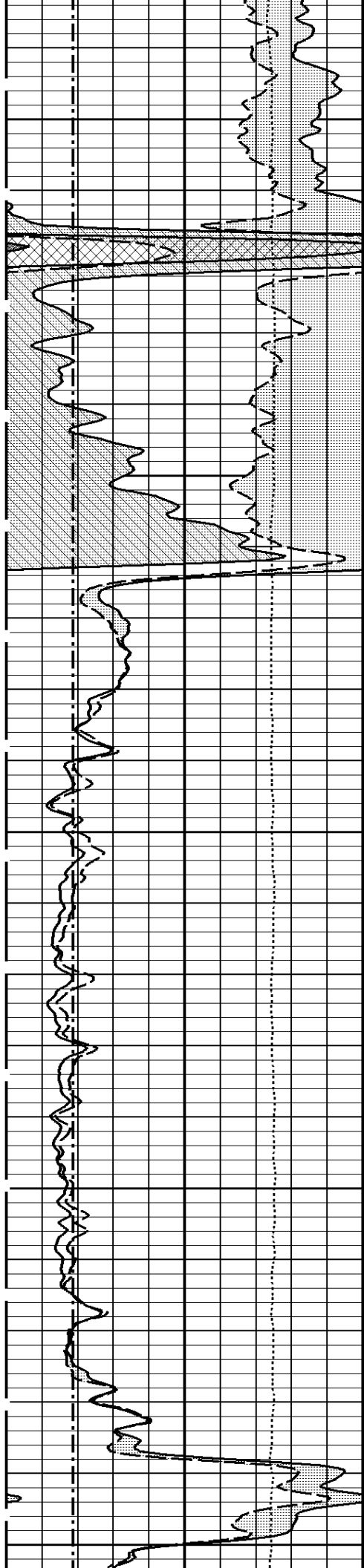




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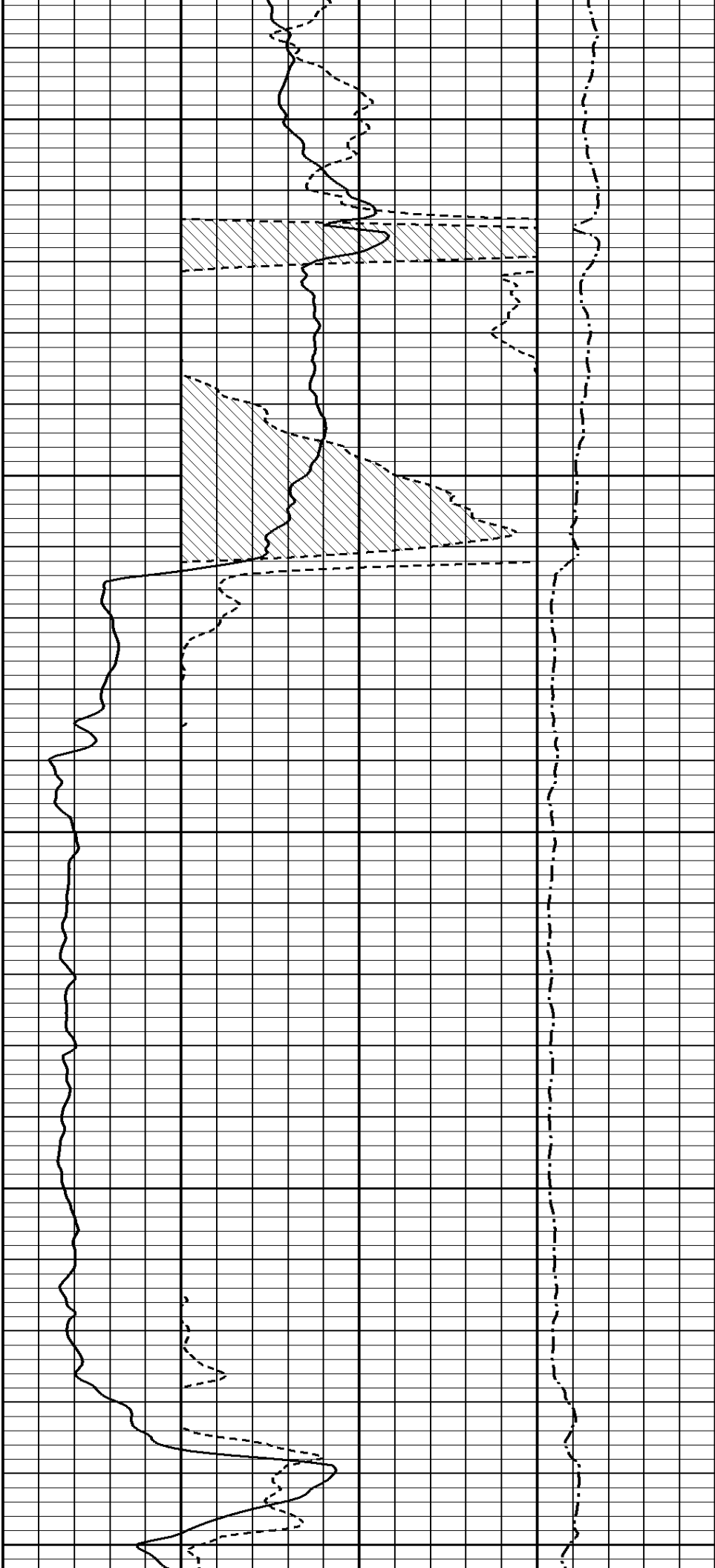
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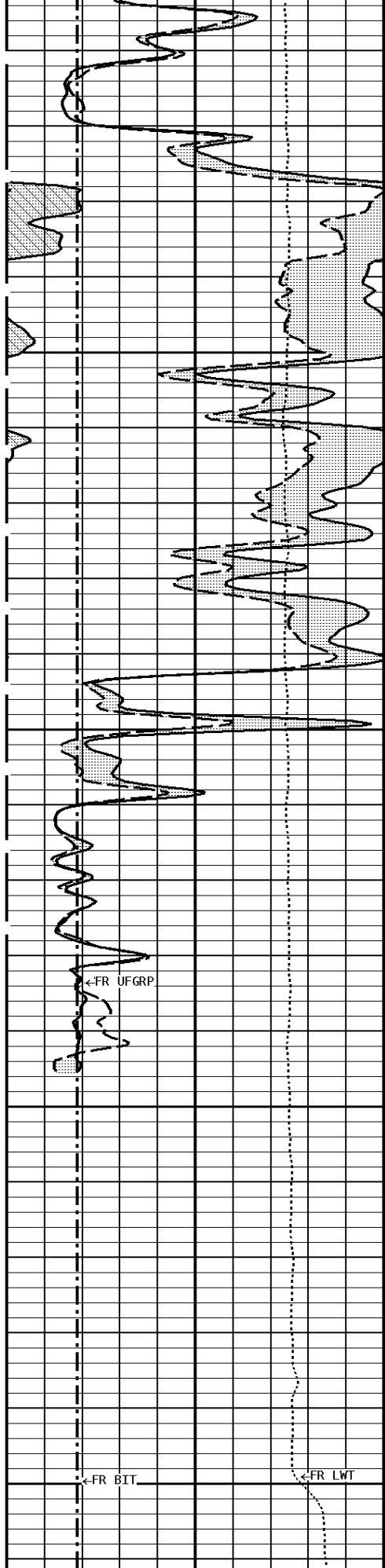




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4900

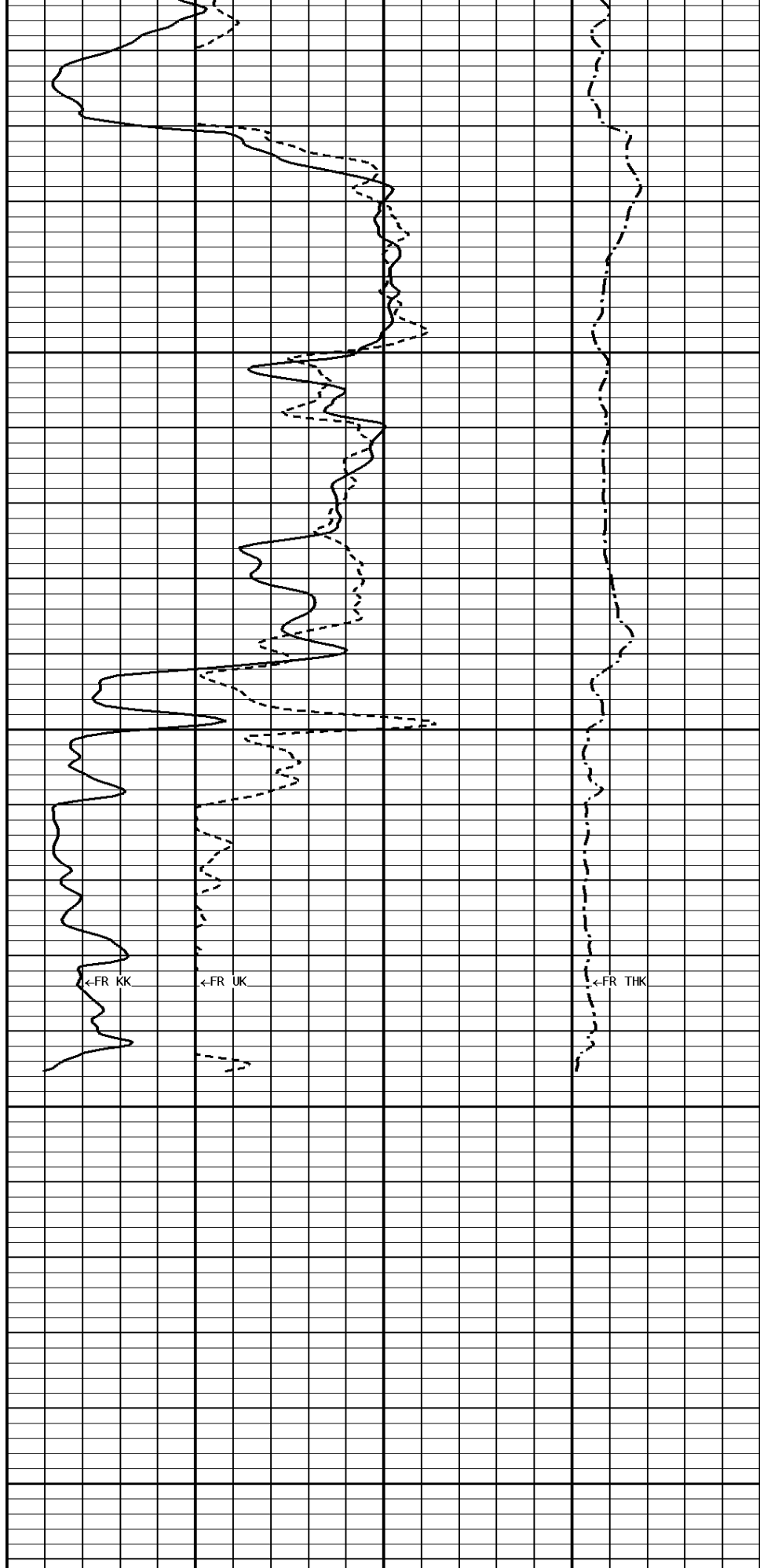




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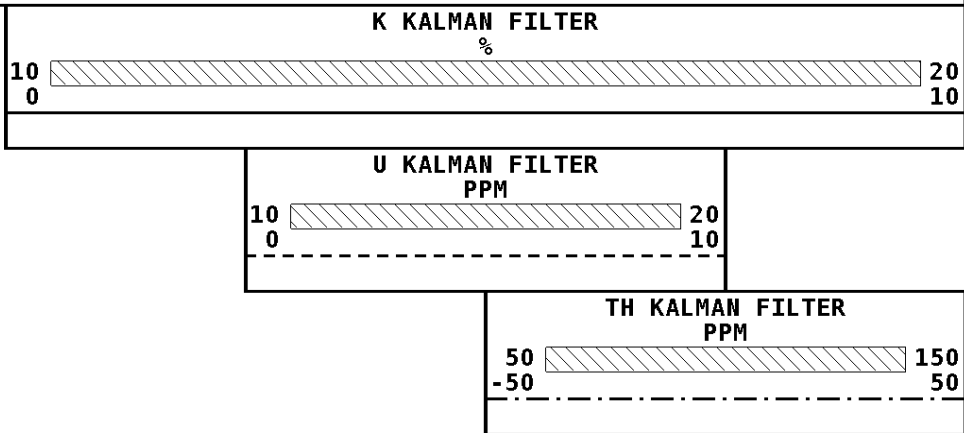
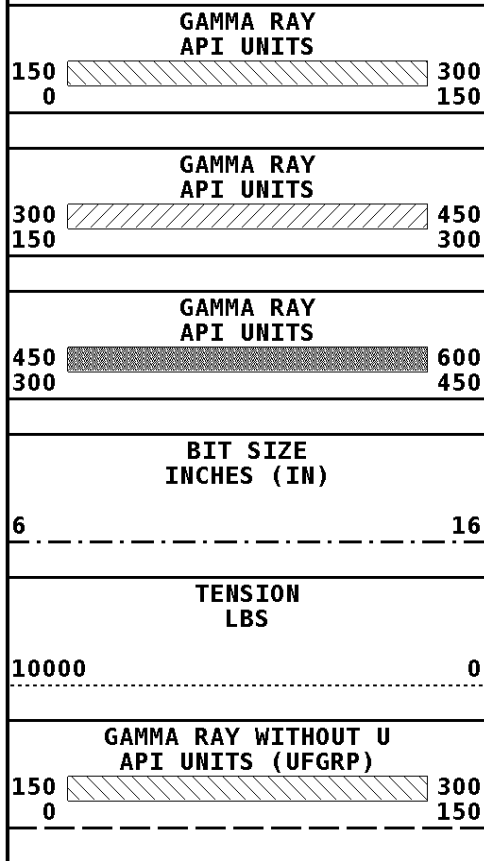
5100

5150



File #1.1.5

1:240 MAIN SECTION



Well File: LBE WOL 15-1 APR 11_SGTQUINT

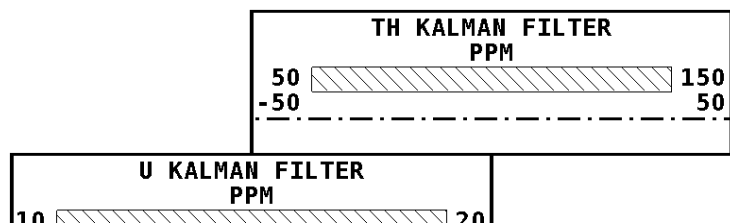
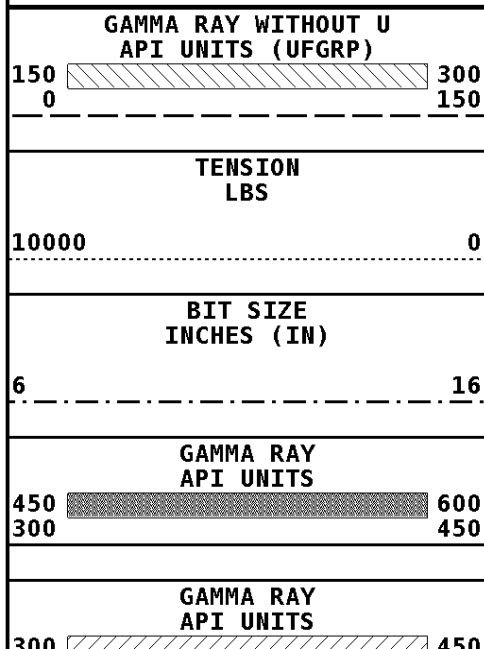
Scale: 1:240

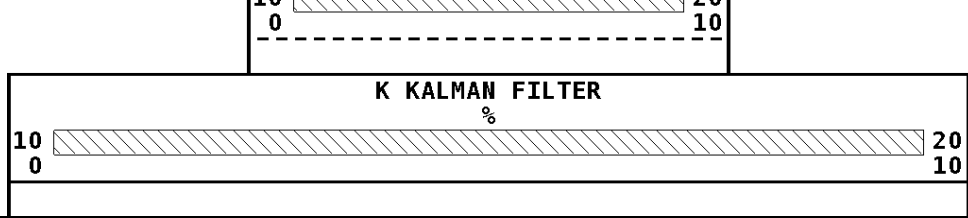
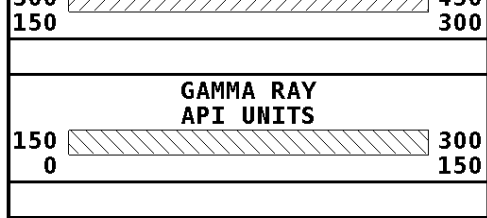
Segment: V1.D1.S4 REPEAT

Acquired: 2012-04/11 15:14 3.2.0-10367

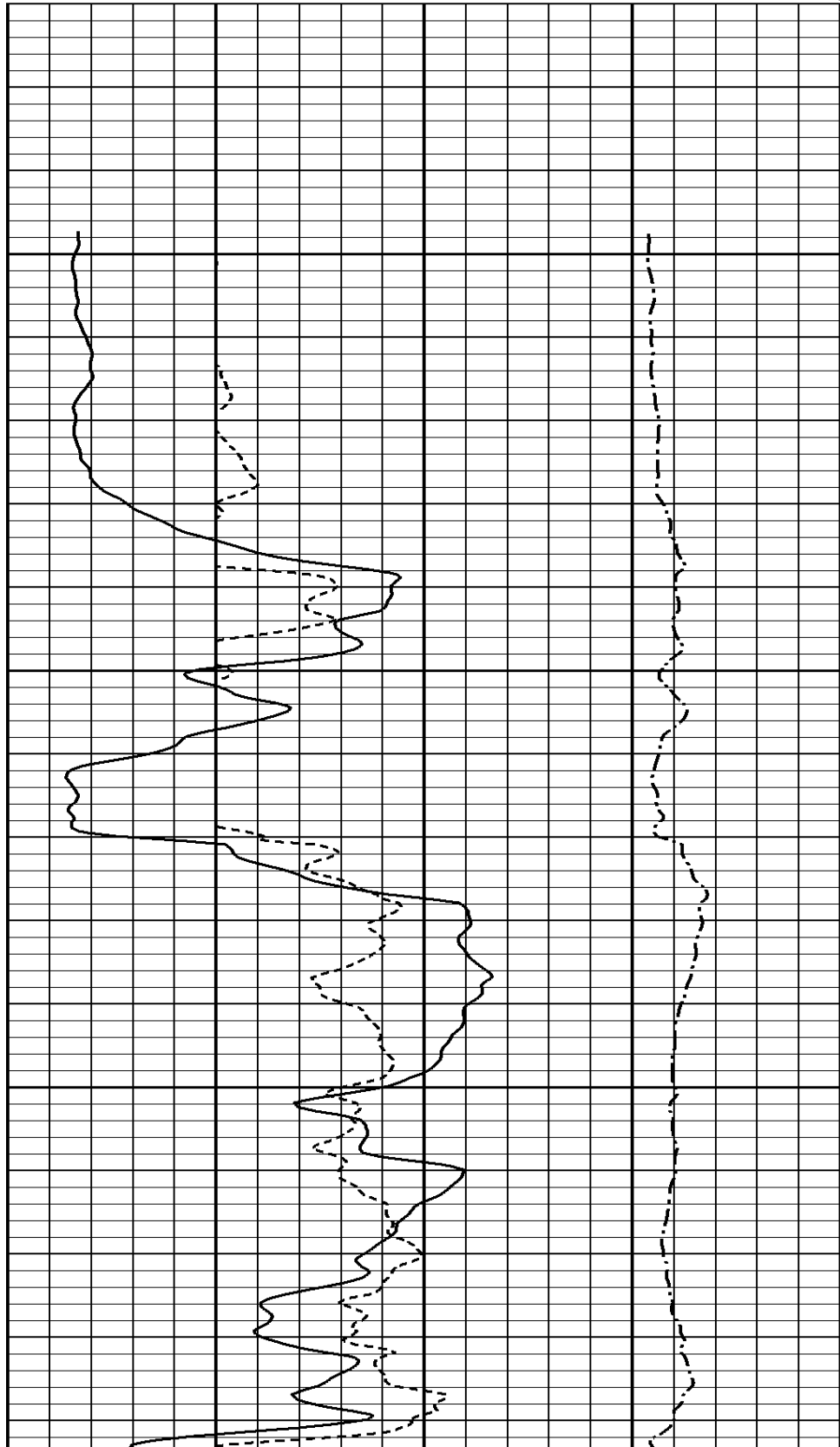
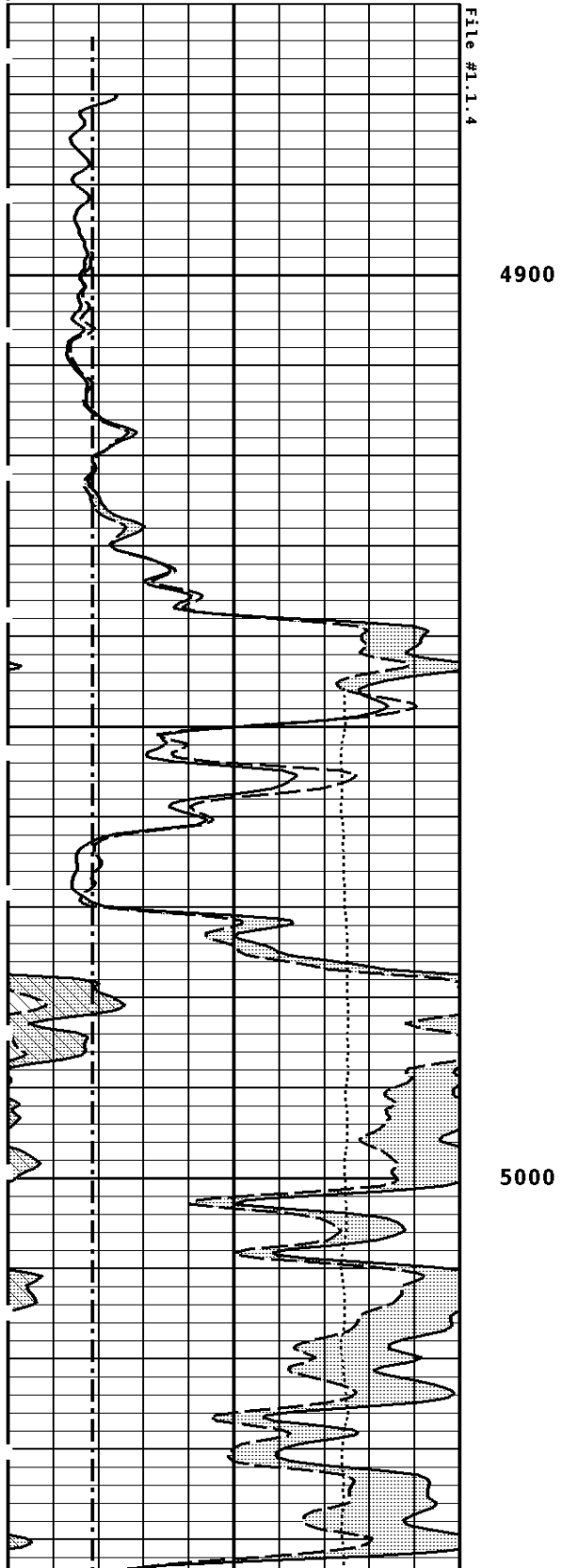
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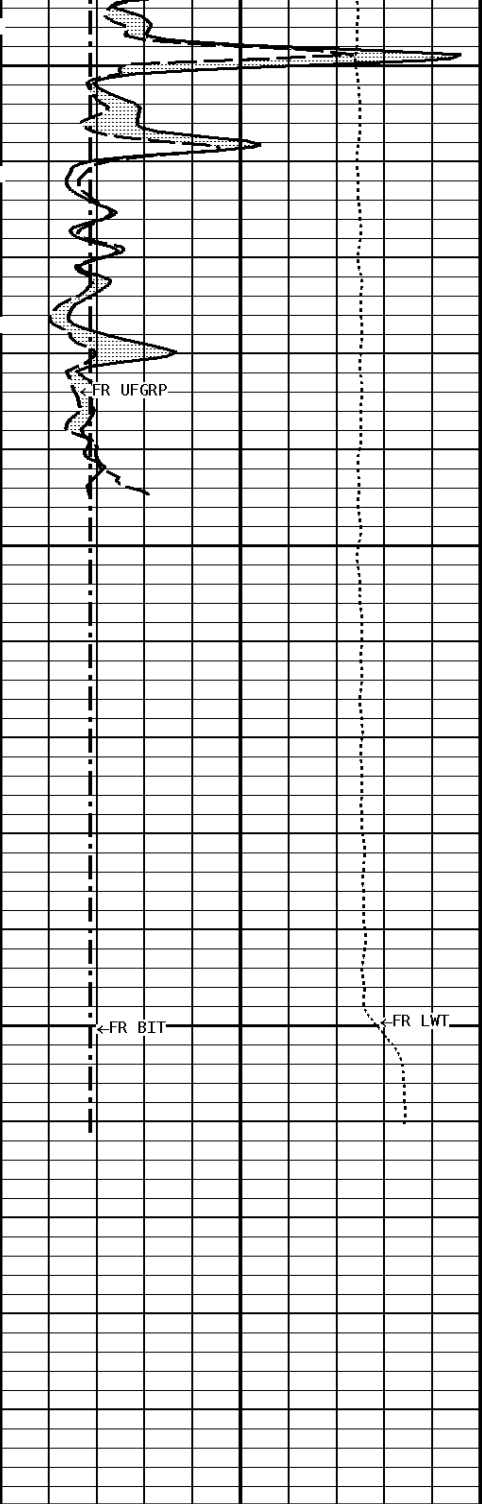
Processed: 2012-04/11 19:08 3.2.0-10367





1:240 REPEAT SECTION



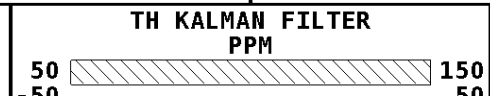
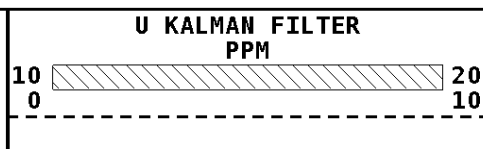
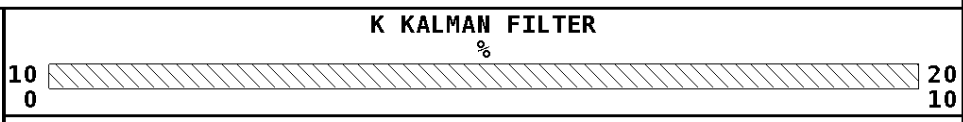
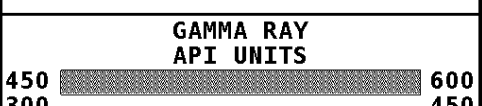
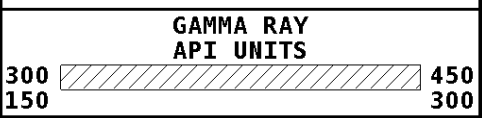
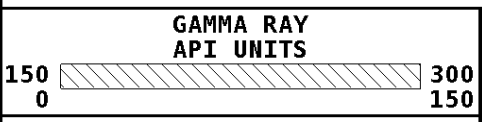


5100

5150

File #1.1.4

1:240 REPEAT SECTION



300 450
BIT SIZE INCHES (IN)
6 16
TENSION LBS
10000 0
GAMMA RAY WITHOUT U API UNITS (UFGRP)
150 300 0 150

*** Calibration Summary ***

Shop Calibration GRT-FA					
Performed : 22-Jul-2010			Time : 18:20		
Sensor Suite : SPGCWIN			ID : GRT-FA-074		
Label Values	K 72.3 kBq 12.8 %	U 2.3 kBq 10.8 ppm	Th 8.5 kBq 121.6 ppm		
Measured	11.9 %	40.2 ppm	80.7 ppm		
Calibrated	12.8 %	10.8 ppm	121.6 ppm		
Window	Background	Jig	Calibrated		
1	55	811	684		
2	13	205	178		
3	7	130	100		
4	5	101	93		
5	3	59	46		
6	3	68	60		
7	1	17	11		
8	1	16	17		
9	1	10	12		
Performed : 22-Jul-2010			Time : 18:02		
Sensor Suite : SPGCGR			ID : GRT-FA-074		
	Measured	Units	Calibrated	Units	
Background	Jig		Jig		
GR 123	1040	CPS	160		GRAPI