



**Casedhole
Solutions**

**MICRO
LOG**

Company		SHELBY RESOURCES, LLC.	
Well		FROETSCHNER #1-3	
Field		WILDCAT	
County		PAWNEE	
State		KANSAS	
Location:		APL # : 15-145-21813-0000	
SEC 3 TWP 22S RGE 17W		SW - SE - NE - SE 1619' FSL & 403' FEL	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 11' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Elevation		K.B. 2031 D.F. 2029 G.L. 2020	
Date	11/23/15		
Run Number	TWO		
Depth Driller	4155		
Depth Logger	4156		
Bottom Logged Interval	4140		
Top Log Interval	3100		
Casing Driller	8 5/8"@1061'		
Casing Logger	1061		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,400 PPM	
Density / Viscosity	9.5/56		
pH / Fluid Loss	9.0/9.2		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.800@70F		
Rmf @ Meas. Temp	.600@70F		
Rmc @ Meas. Temp	.960@70F		
Source of Rmf / Rmc	MEASUREMENT		
Rin @ BHT	.479@117F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	12:45 A.M.		
Maximum Recorded Temperature	117F		
Equipment Number	22339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	CHARLIE STURDAVANT		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

THANK YOU FOR USING C & J ENERGY (CASED HOLE SOLUTIONS) HAYS, KANSAS (785) 628-6395
DIRECTIONS
LARNED, KS., (MAIN ST. & HWY 56) 1 1/2 S.W. ON HWY 56 TO "RD. L", 3 1/2 DUE WEST TO "160TH
RD.", 1N., 1/2E., 1 S. & E. INTO

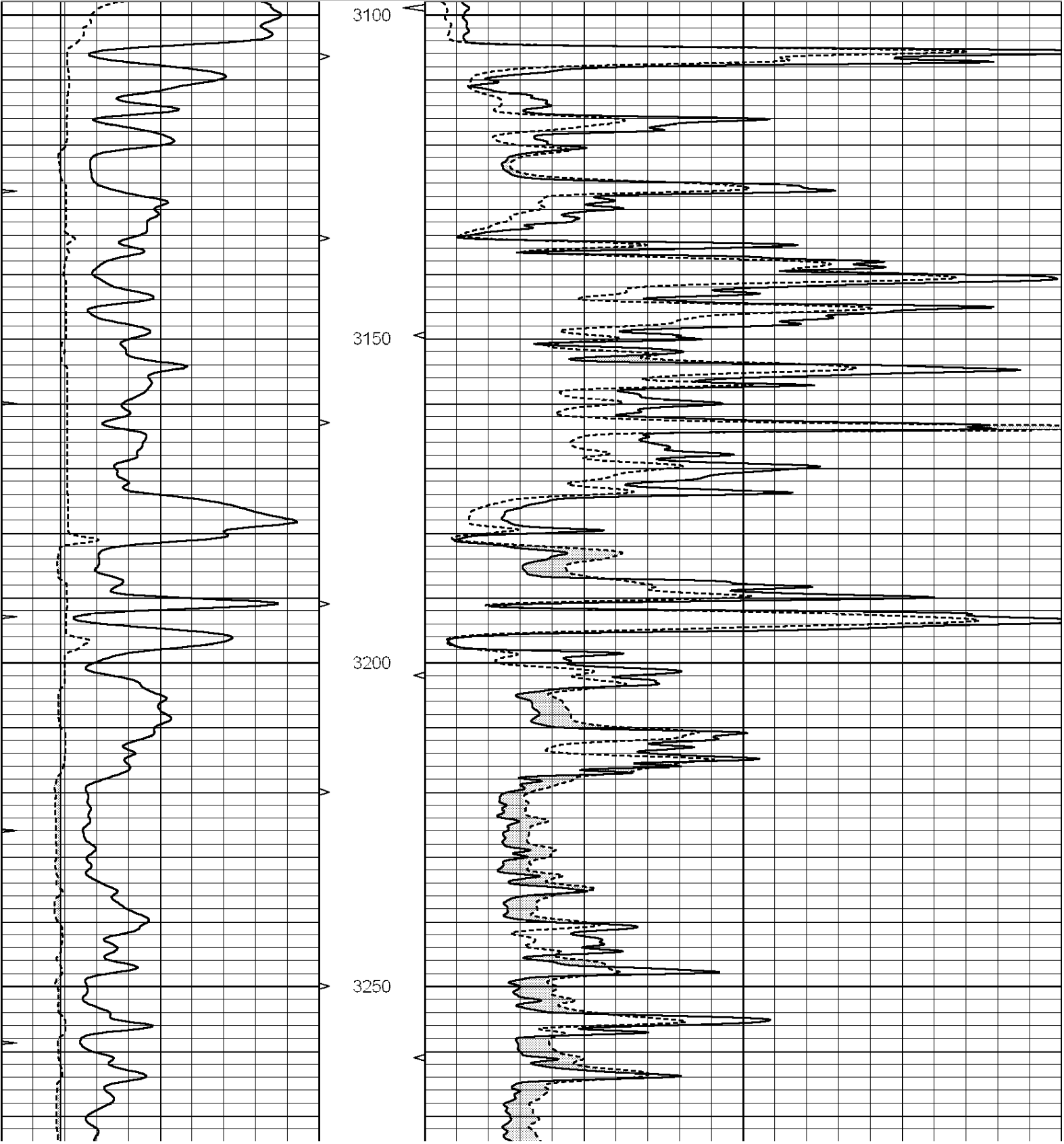


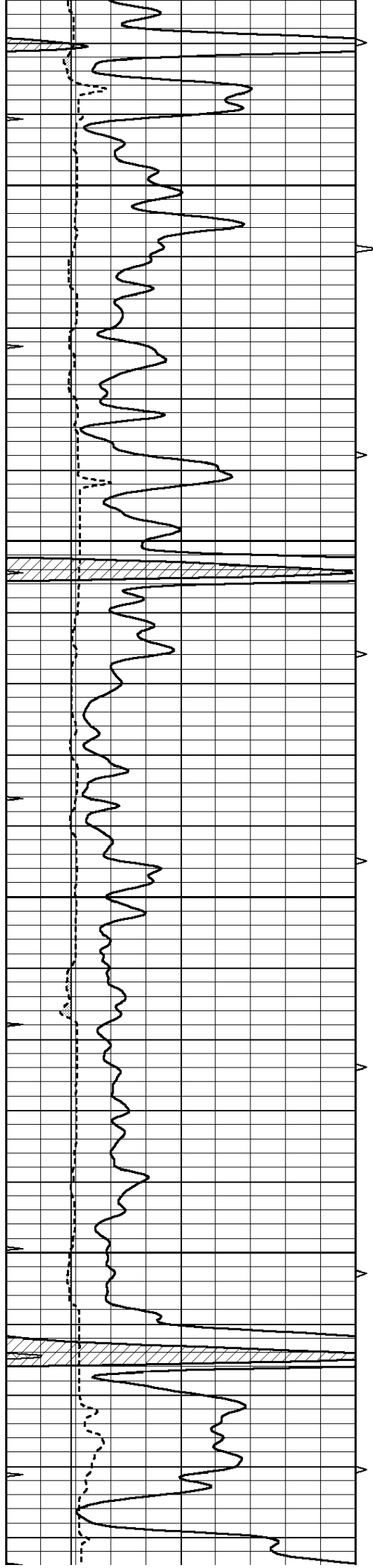
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MAIN SECTION

Database File: 30675ddn.db
Dataset Pathname: pass6.3
Presentation Format: micro
Dataset Creation: Mon Nov 23 04:03:46 2015 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0 0	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		



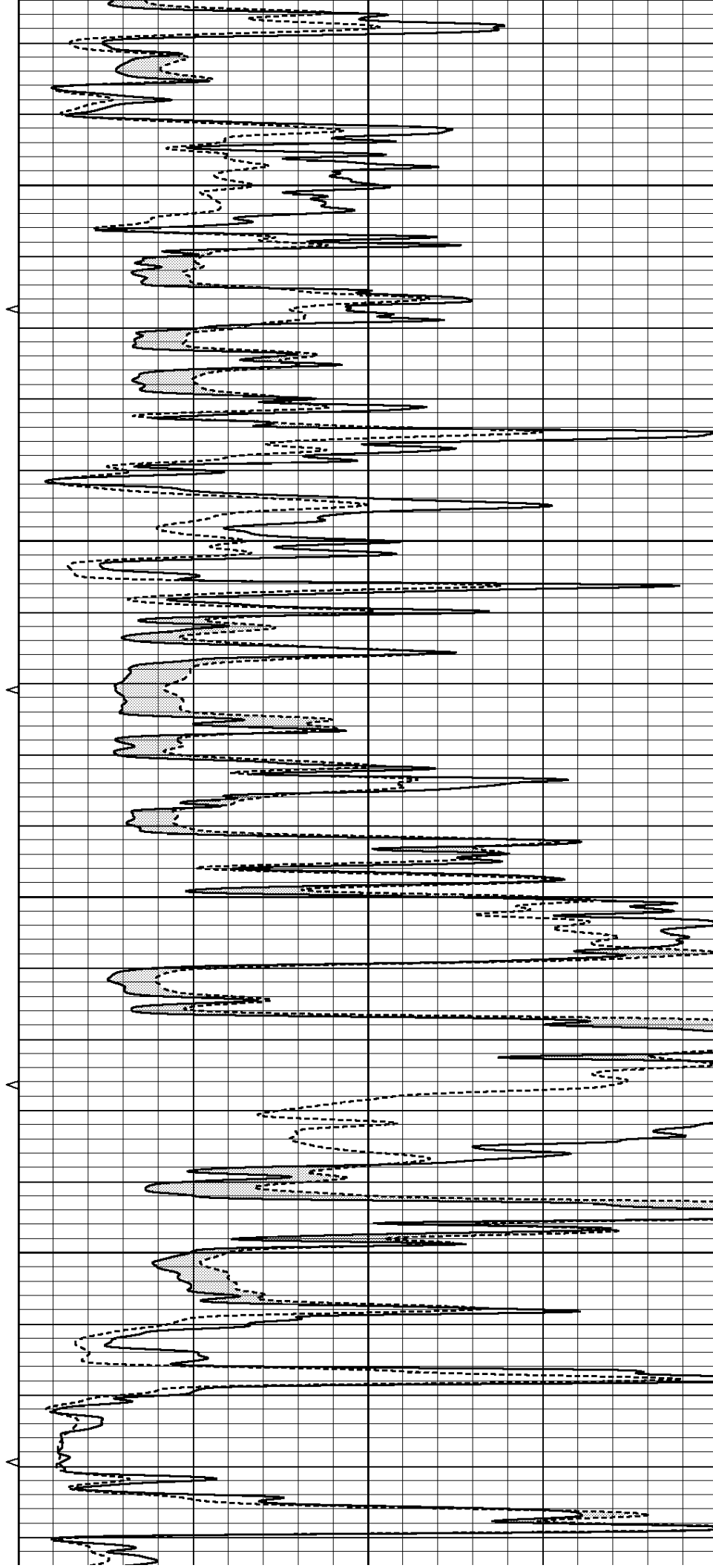


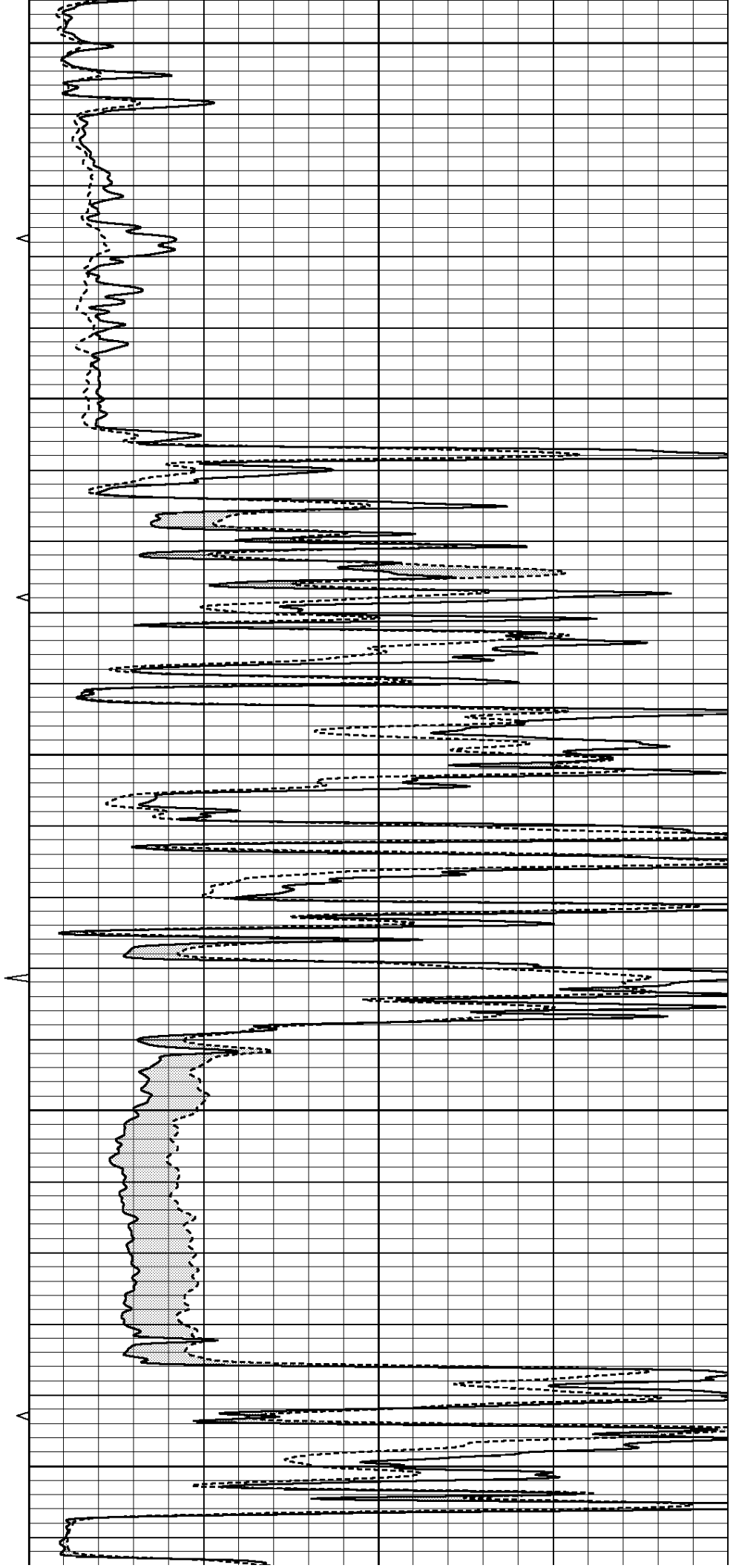
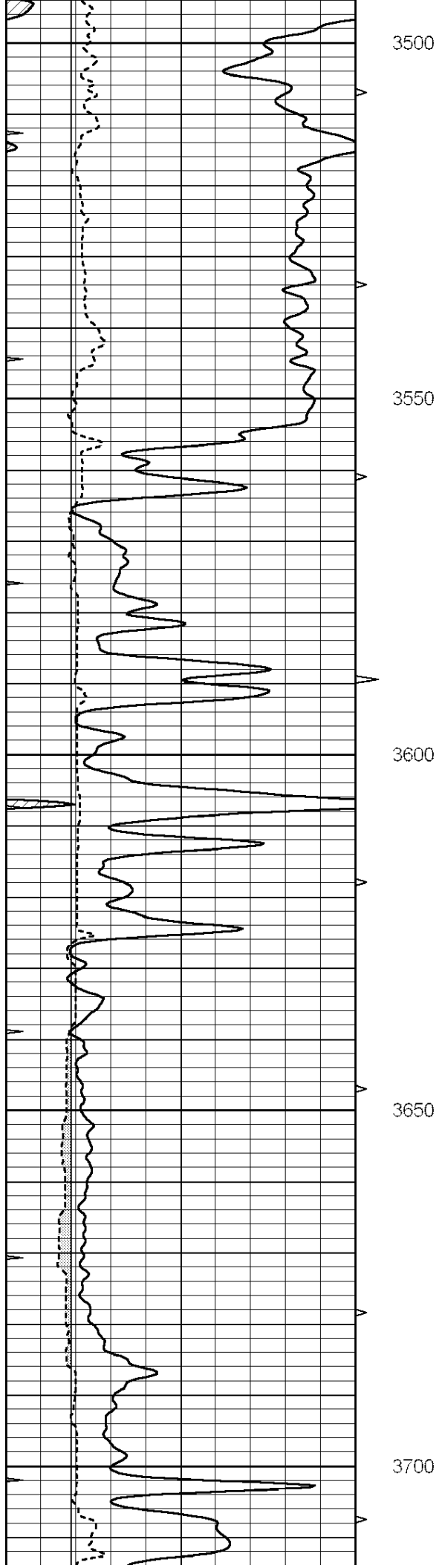
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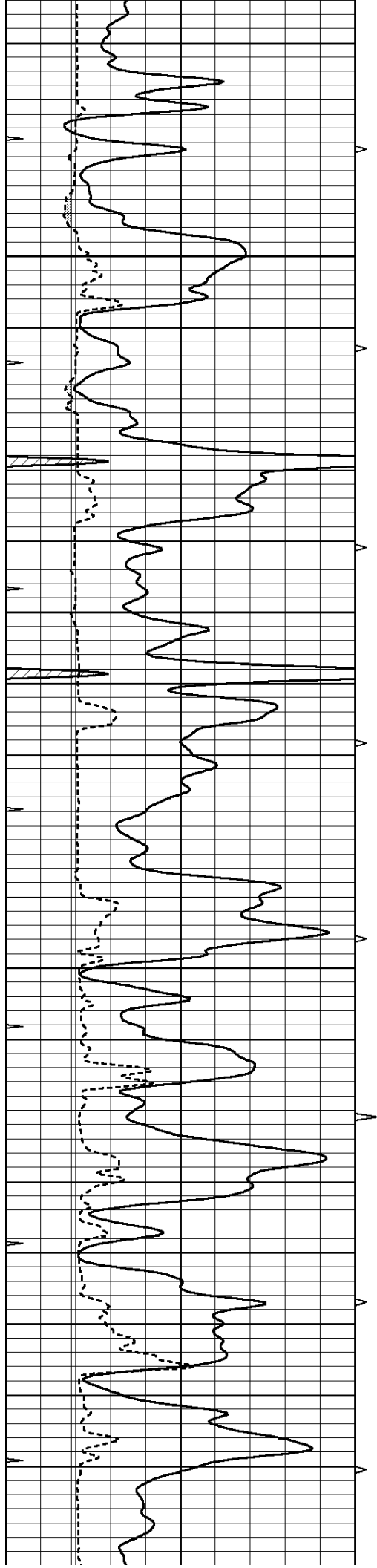
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3400

3450





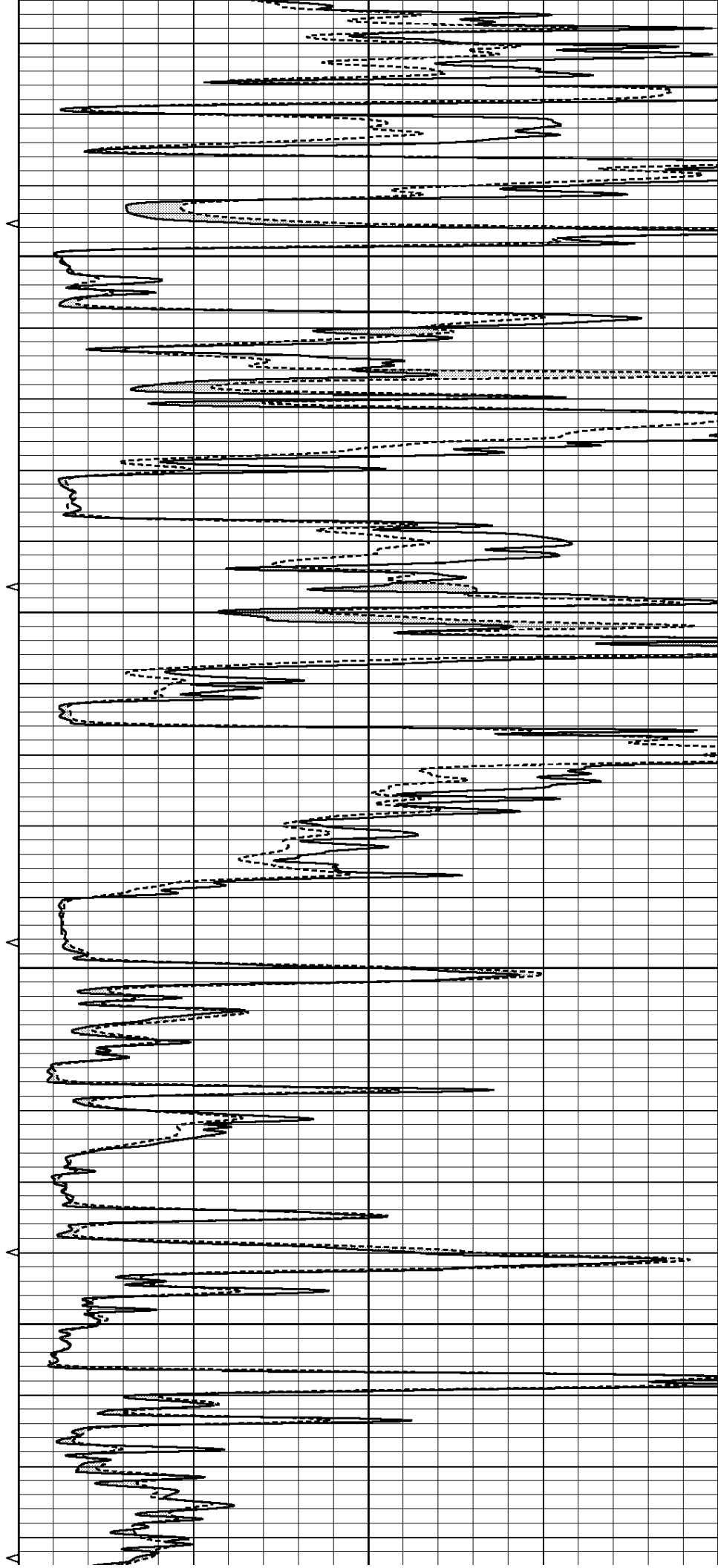


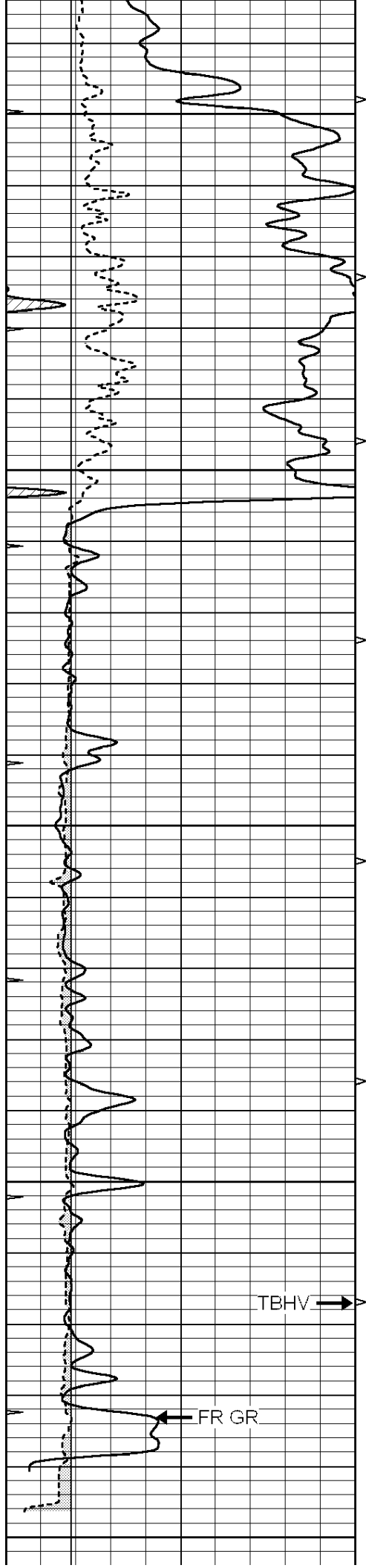
3750

3800

3850

3900





3950

4000

4050

5.5' ABHV

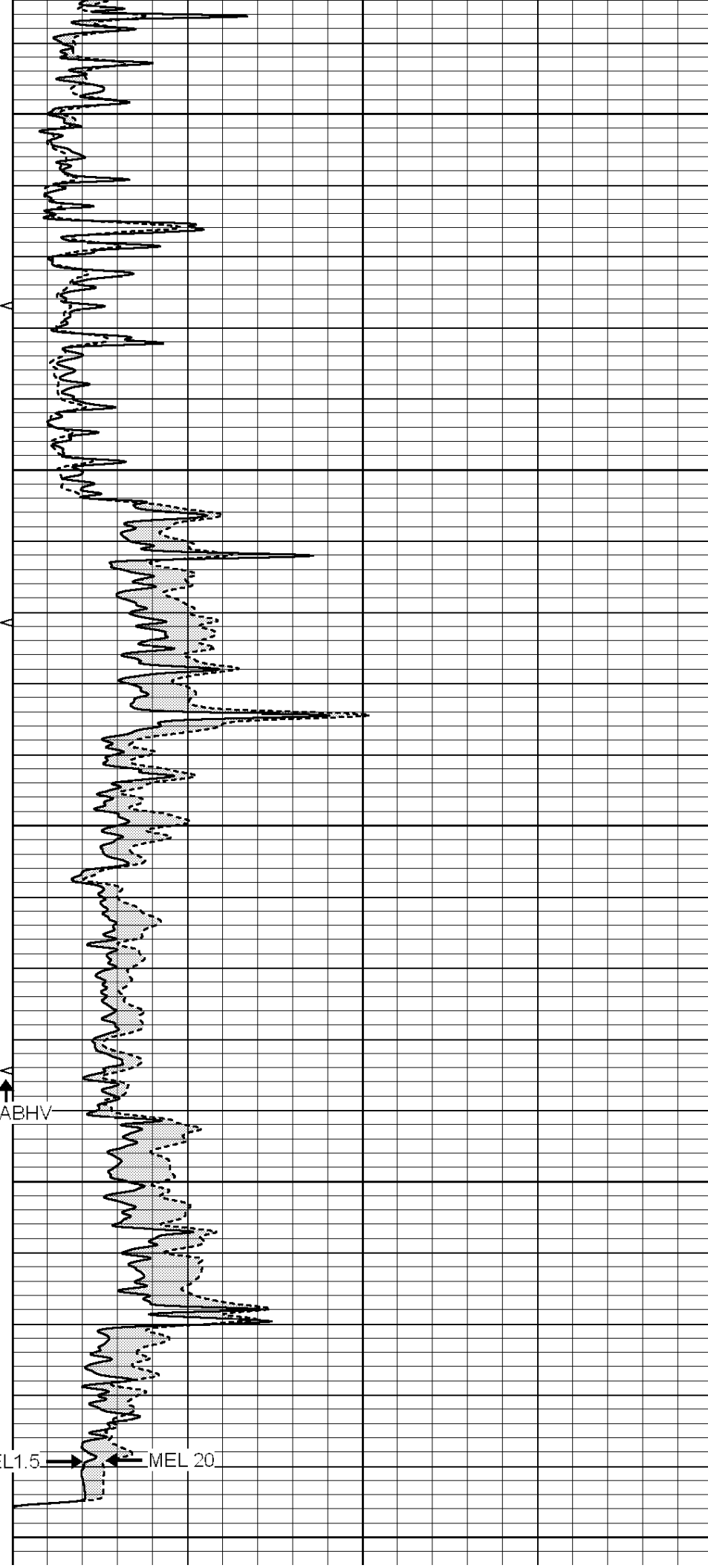
4100

TBHV →

← FR GR

MEL 1.5 → MEL 20

4150

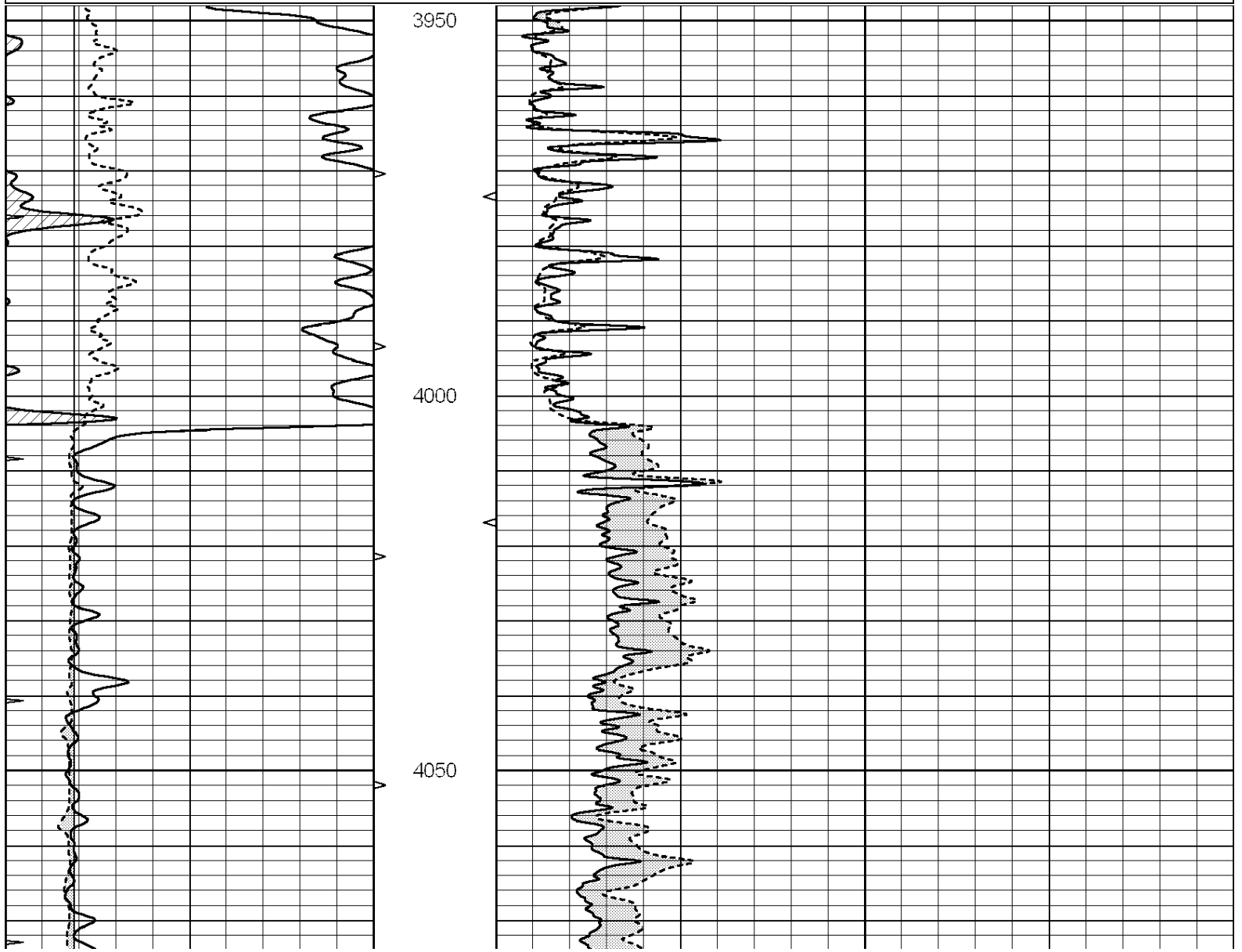


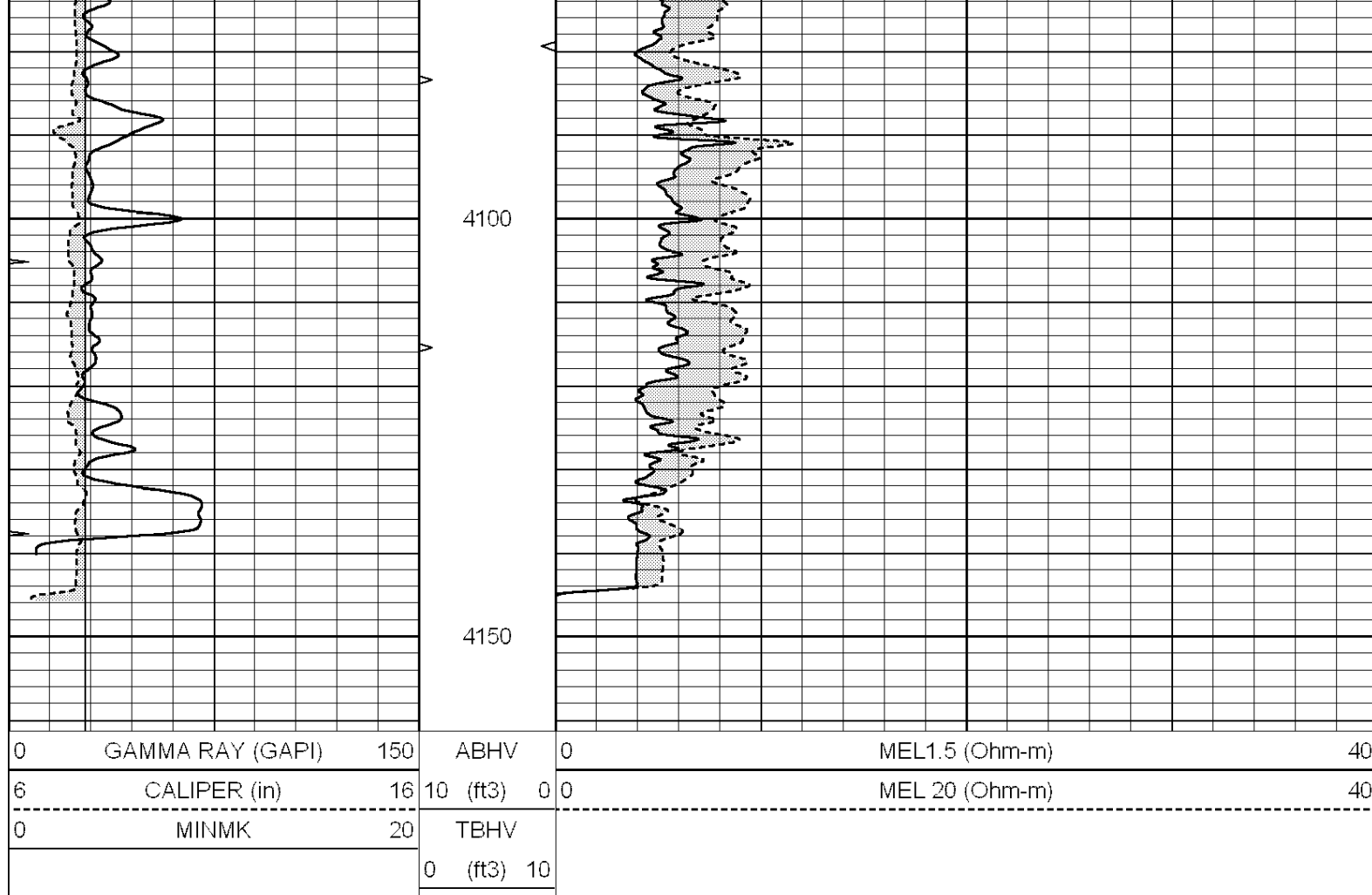
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REPEAT SECTION

Database File: 30675ddn.db
Dataset Pathname: pass5.1
Presentation Format: micro
Dataset Creation: Mon Nov 23 03:17:27 2015 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0 0	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		





Calibration Report

Database File: 30675ddn.db
Dataset Pathname: pass6.3
Dataset Creation: Mon Nov 23 04:03:46 2015 by Calc SOC 120430

MICRO Calibration Report

Serial Number: 070912
Tool Model: ProbeN
Performed: Fri Nov 20 16:11:23 2015

Caliper Calibration: Gain=2.575 Offset=6.541

	Low Cal	High Cal
References	7.800	15.000
Readings	0.489	3.285

1.5" Calibration: Gain=28.000 Offset=0.000

	Low Cal	High Cal
References	0.000	20.000
Readings	0.002	1.239

2" Calibration: Gain=48.000 Offset=-0.900

	Low Cal	High Cal
References	0.000	20.000
Readings	0.003	1.075

Gamma Ray Calibration Report

Serial Number: 110959
Tool Model: OPEN_GR

Performed: Mon Nov 23 02:28:14 2015

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.2000 GAPI/cps