



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

Company LOTUS OPERATING COMPANY, LLC. Well #4 ROSE Field STRANATHAN / HARDTNER County BARBER State KANSAS		Company LOTUS OPERATING COMPANY, LLC. Well #4 ROSE Field STRANATHAN / HARDTNER County BARBER State KANSAS		Location: API # : 15-007-24236-0000 SEC 25 TWP 34S RGE 12W N/2 - NW - SE Permanent Datum GROUND LEVEL Elevation 1383 Log Measured From KELLY BUSHING 13' A.G.L. Drilling Measured From KELLY BUSHING Other Services CDL/CNL/PE DIL/MEL/FF Elevation K.B. 1396 D.F. 1394 G.L. 1383	
Date	10/10/14				
Run Number	TWO				
Depth Driller	5385				
Depth Logger	5390				
Bottom Logged Interval	5382				
Top Log Interval	3700				
Casing Driller	10 3/4" @ 298'				
Casing Logger	298				
Bit Size	7 7/8"				
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,500 PPM			
Density / Viscosity	9.4/44				
pH / Fluid Loss	8.0/10.0				
Source of Sample	FLOWLINE				
Rim @ Meas. Temp	.800 @ 85F				
Rinf @ Meas. Temp	.600 @ 85F				
Rmc @ Meas. Temp	.960 @ 85F				
Source of Rinf / Rmc	MEASUREMENT				
Rim @ BHT	.531 @ 128F				
Time Circulation Stopped	5.5 HOURS				
Time Logger on Bottom	10:30 P.M.				
Maximum Recorded Temperature	128F				
Equipment Number	4854				
Location	HAYS, KANSAS				
Recorded By	JEFF LUEBBERS				
Witnessed By	TIM HELLMAN				

<<< Fold Here >>>

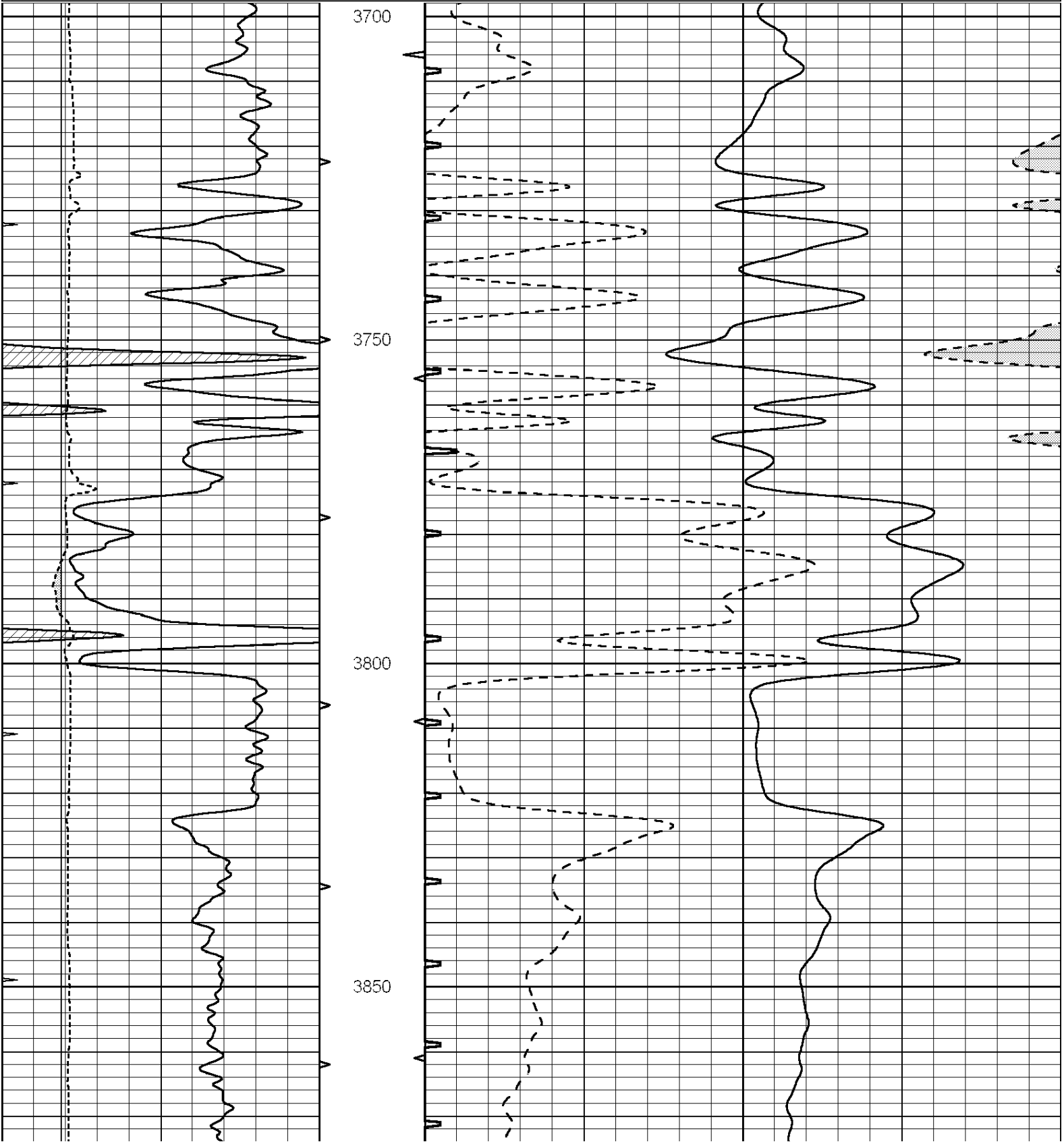
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

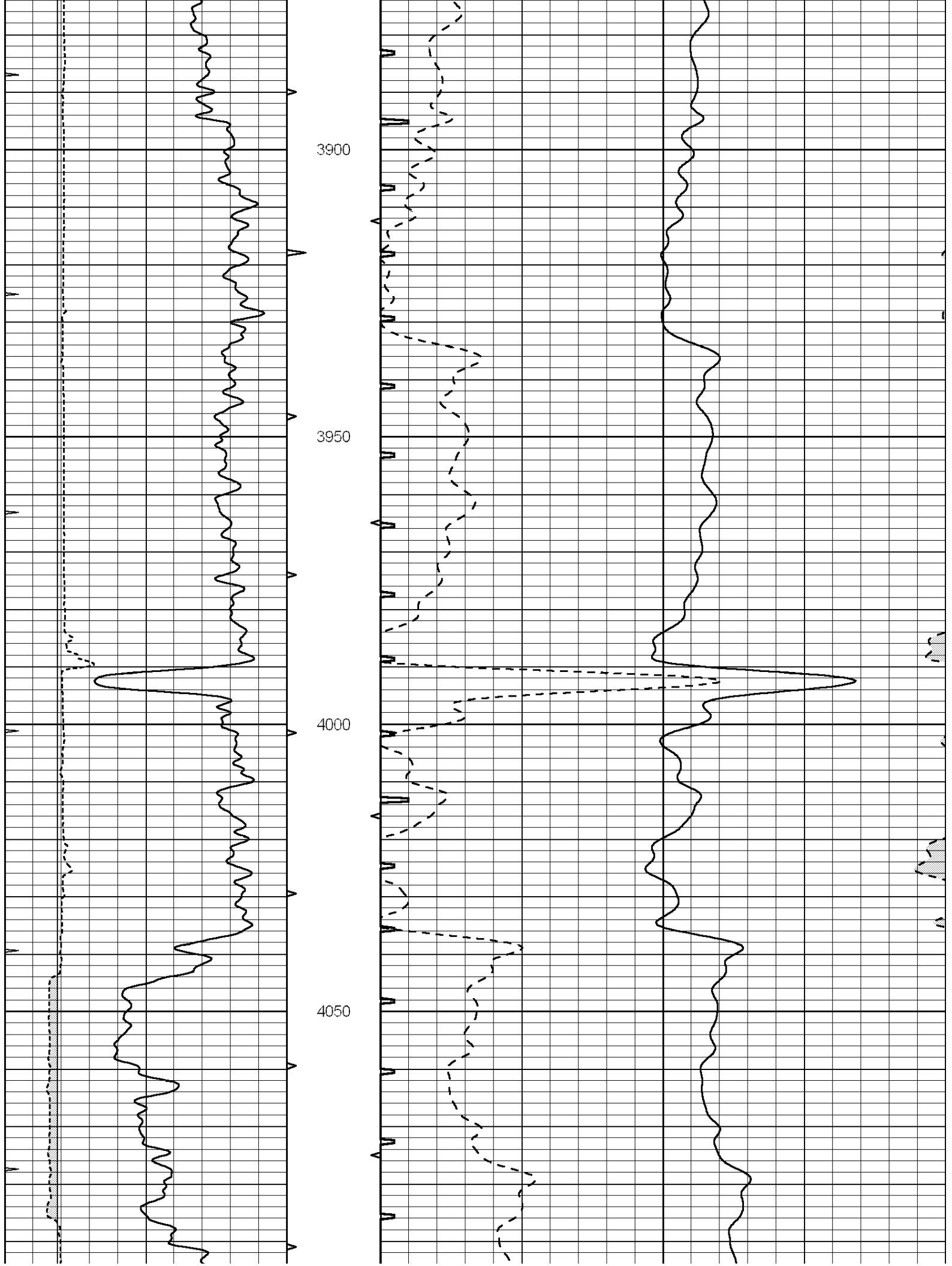
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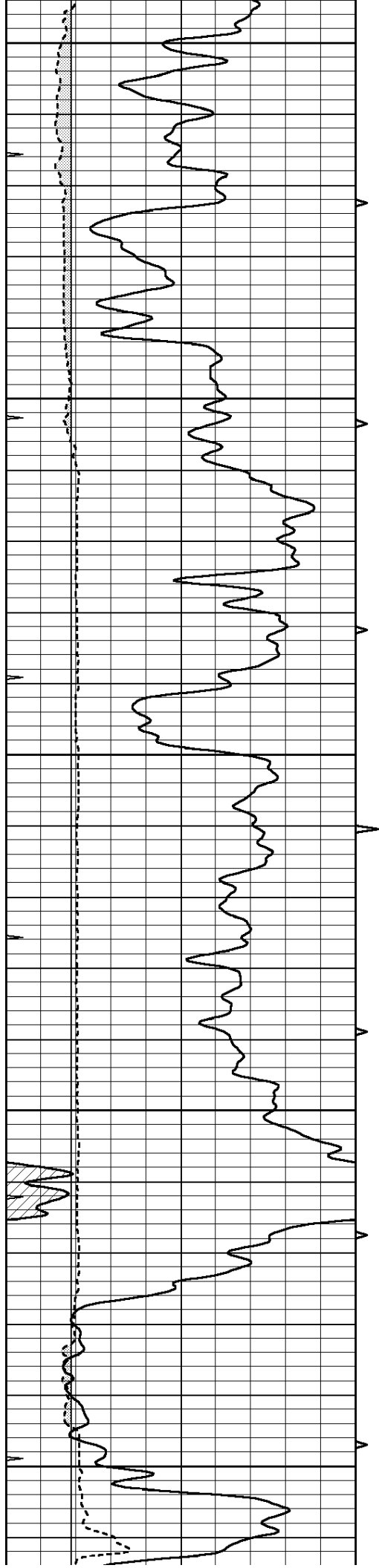
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
 DIRECTIONS
 MEDICINE LODGE, KS., 15 1/2S. ON HWY 281 PAST "HAWKINS RD.", 1/2 W. INTO

Database File: 25893pe.db
Dataset Pathname: pass6.1
Presentation Format: slt
Dataset Creation: Sat Oct 11 02:24:04 2014 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)		40	
6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)		-10
0	MINMK	20	TBHV	0	ITT (msec)		20	
			0 (ft3)	10				







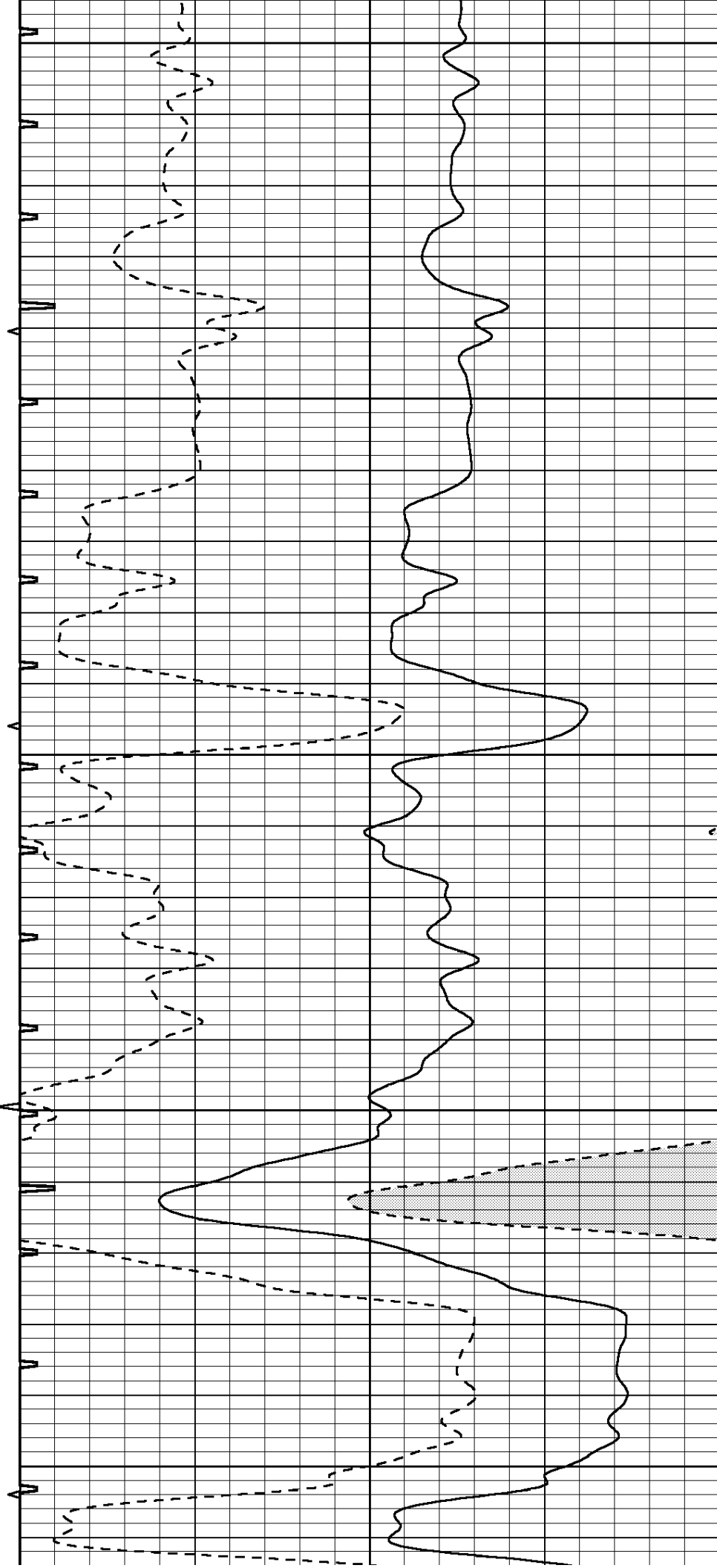
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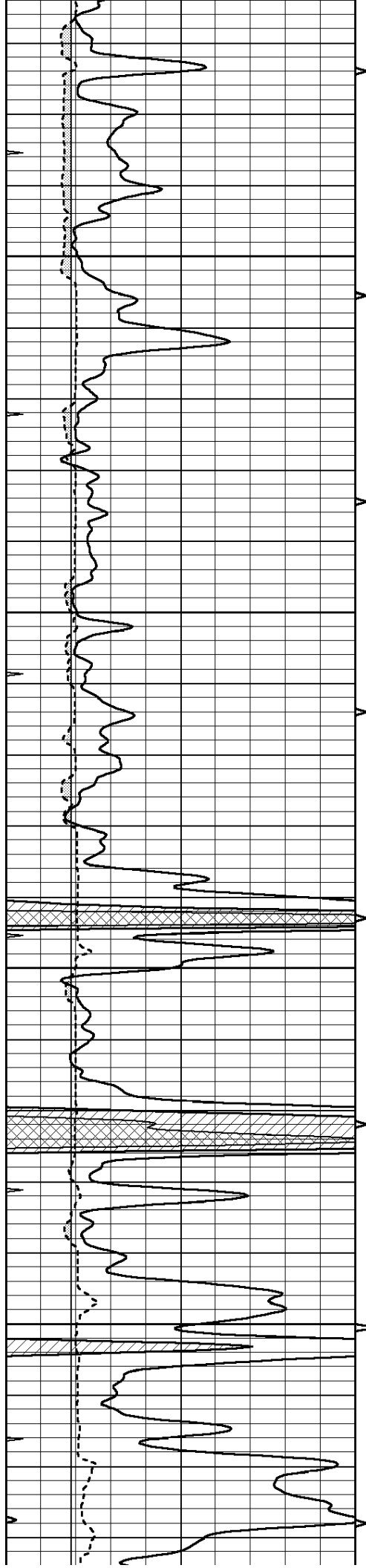
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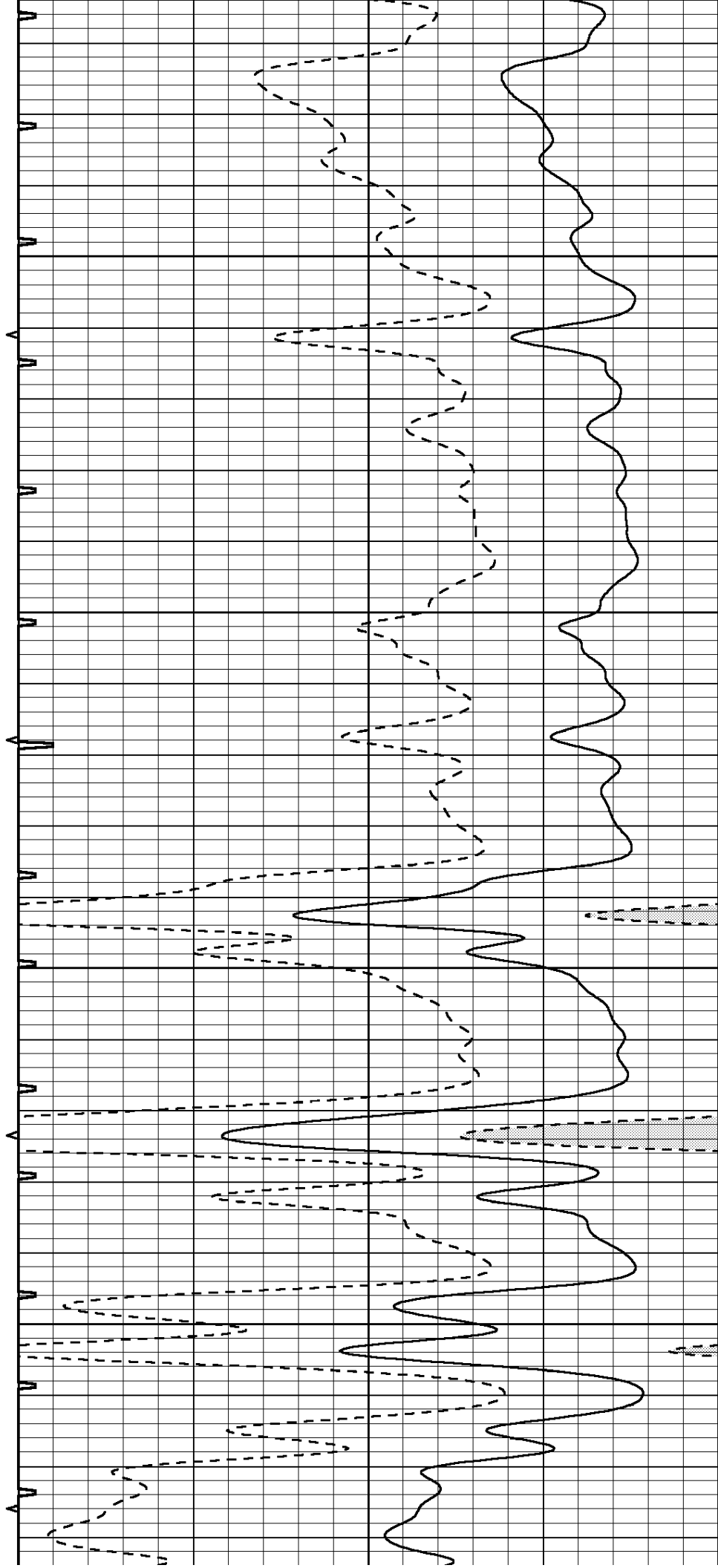


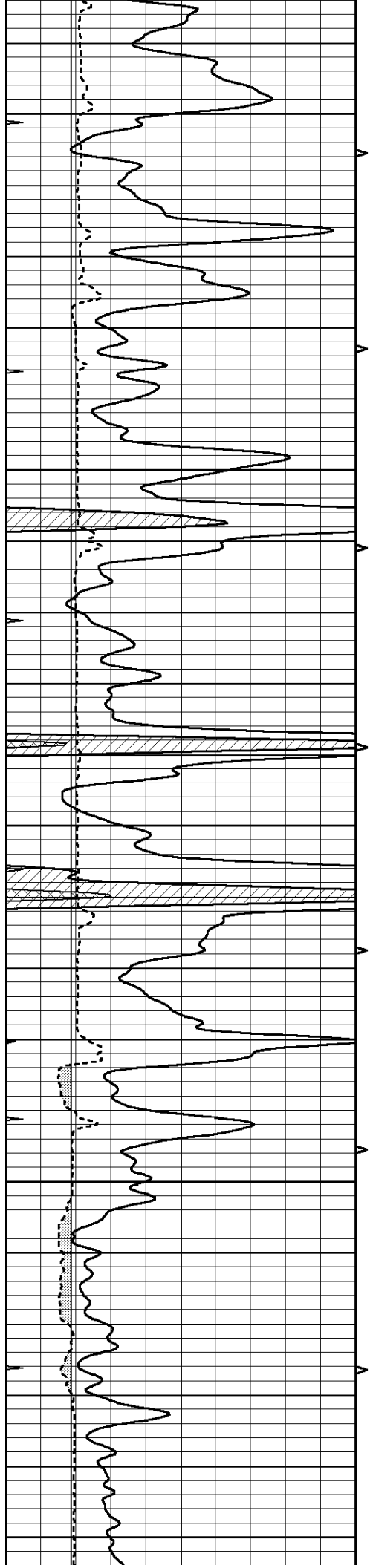
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4500





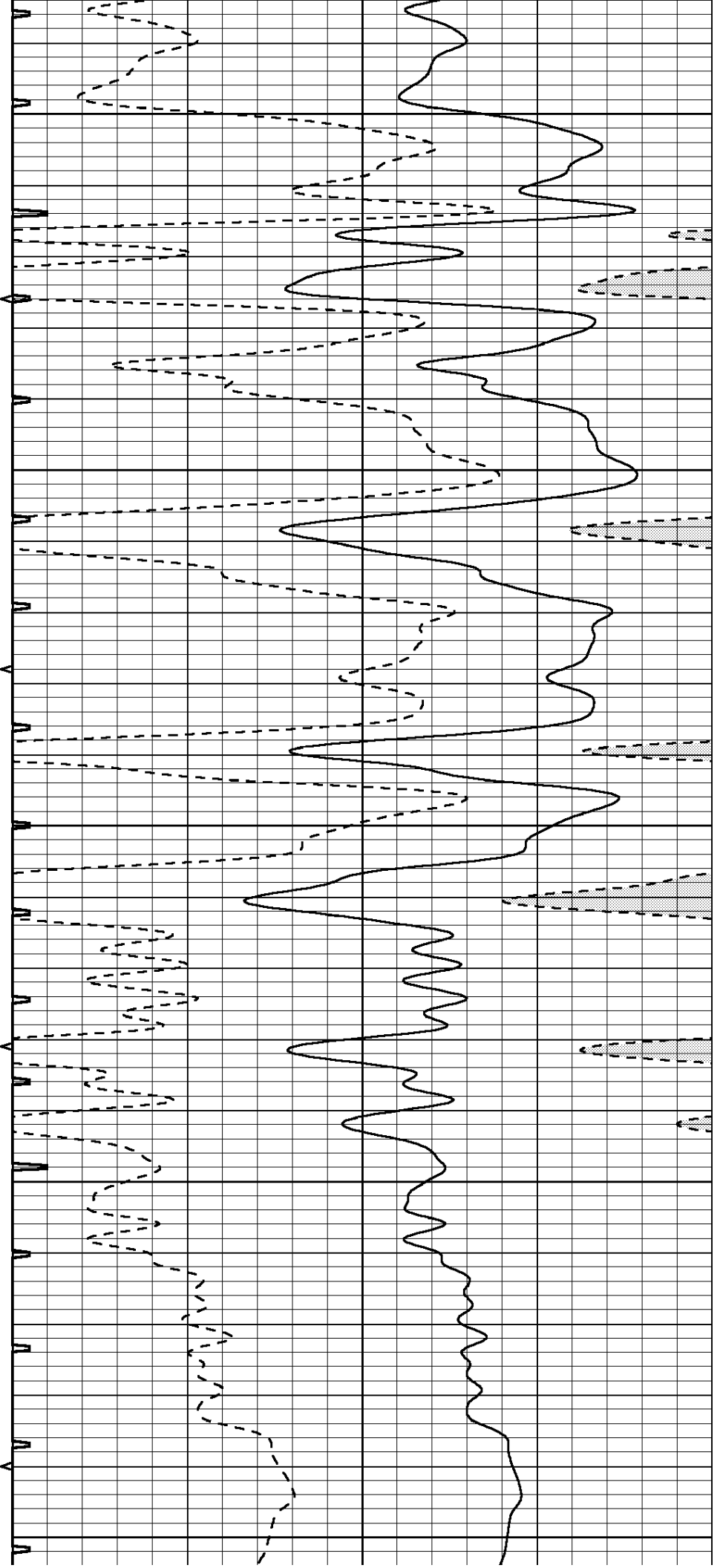
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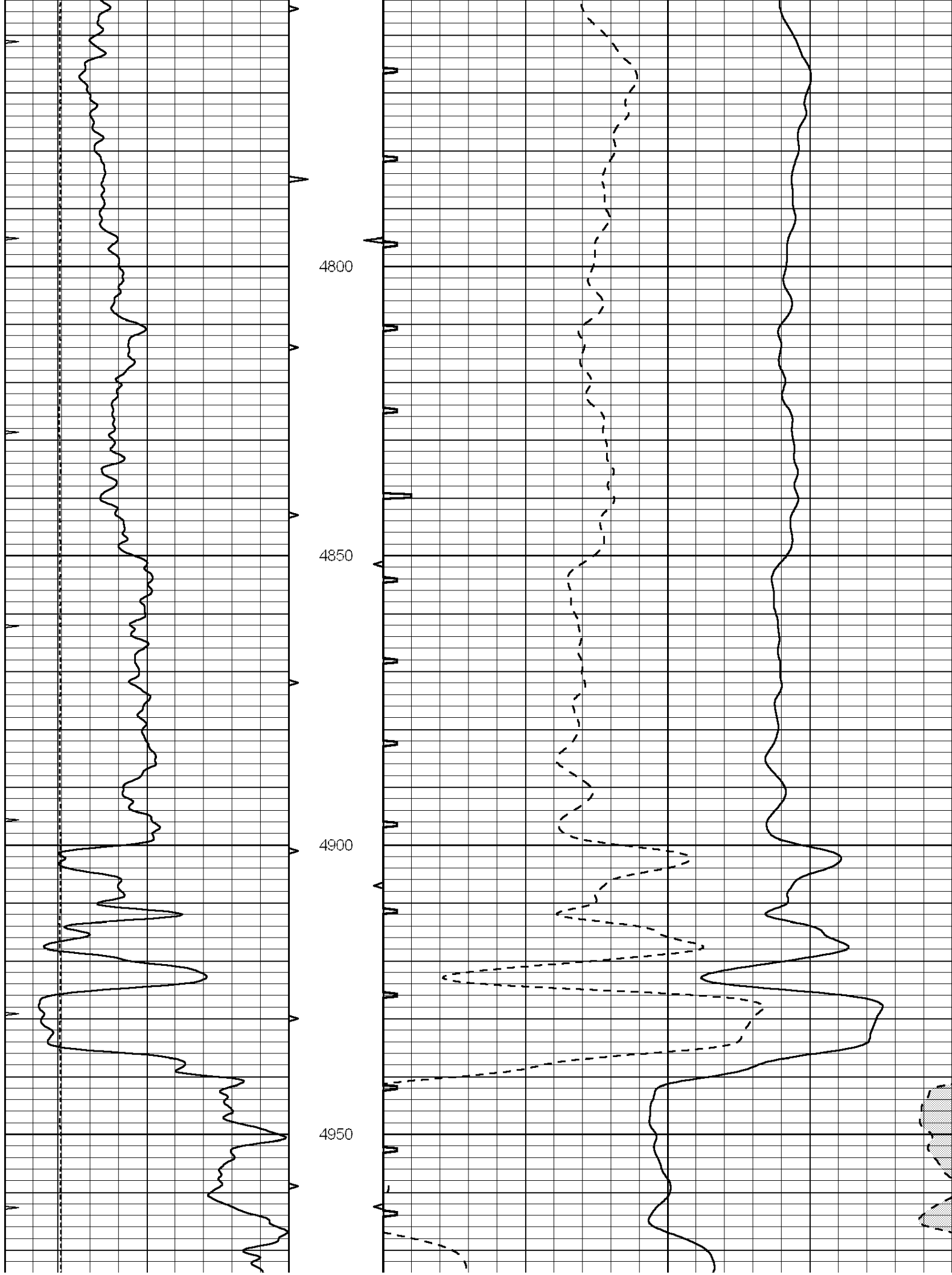
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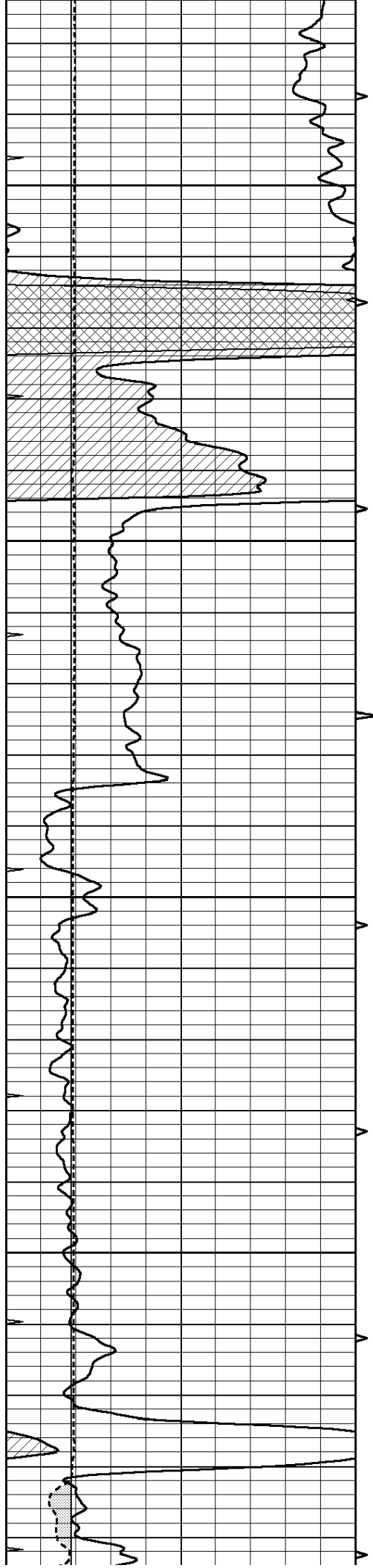
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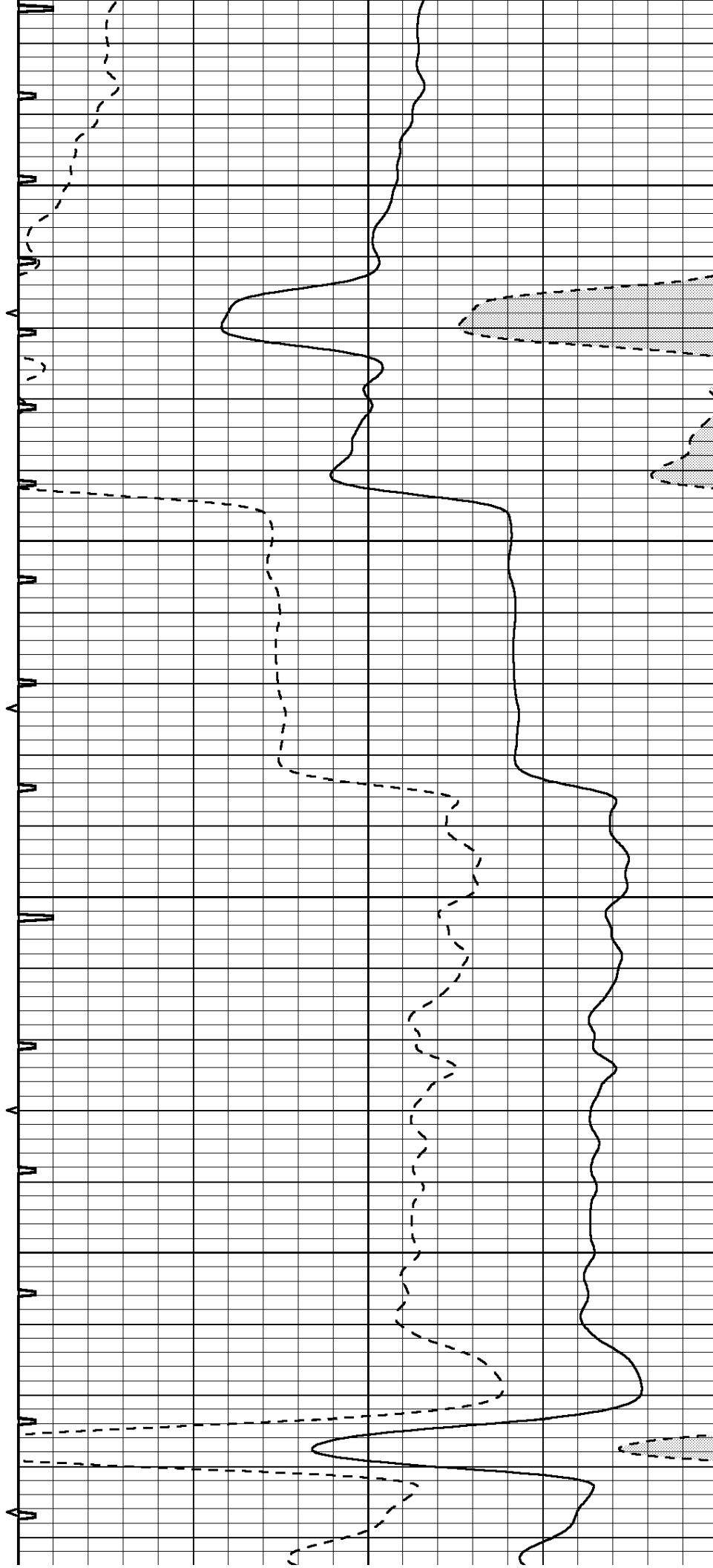


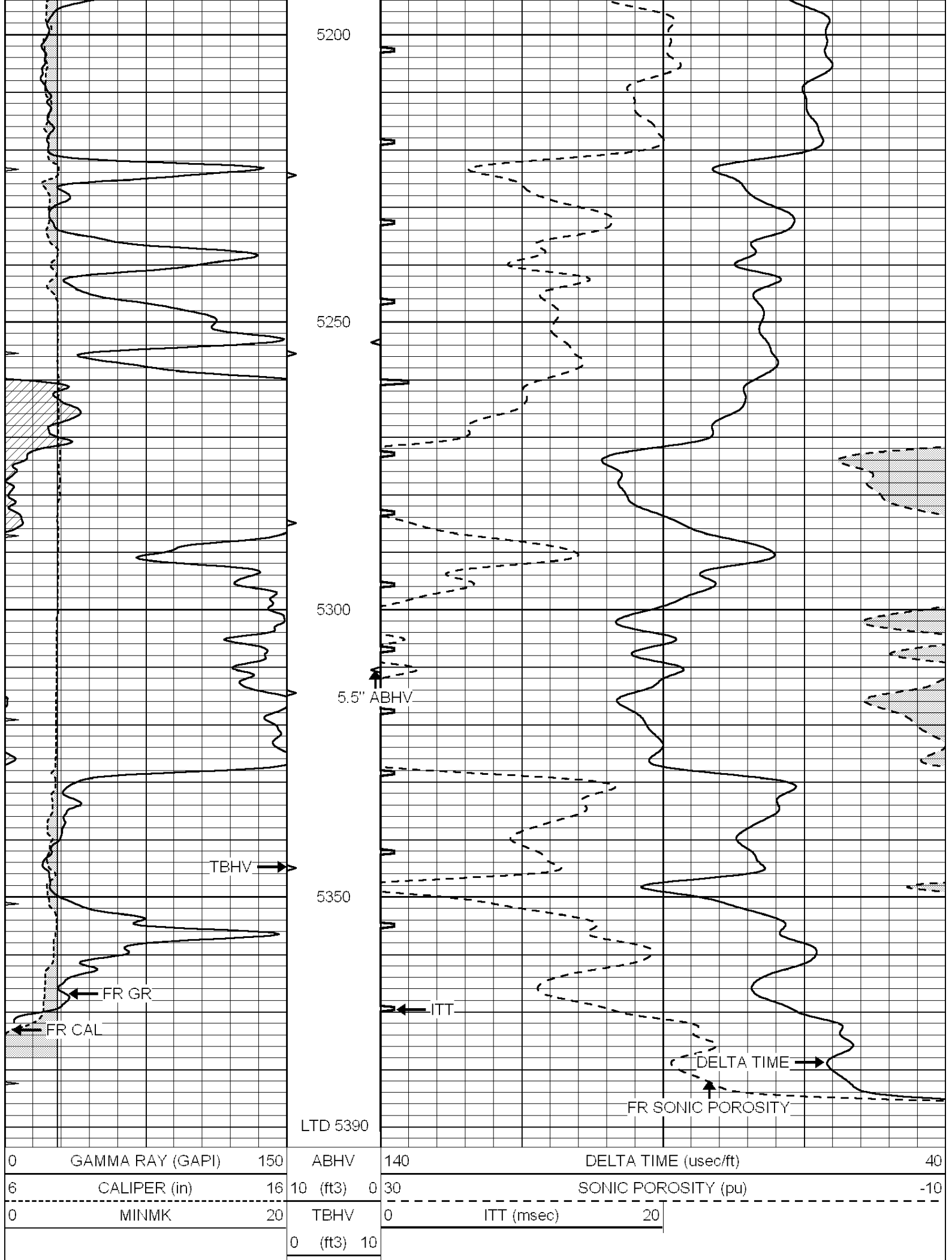
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5150







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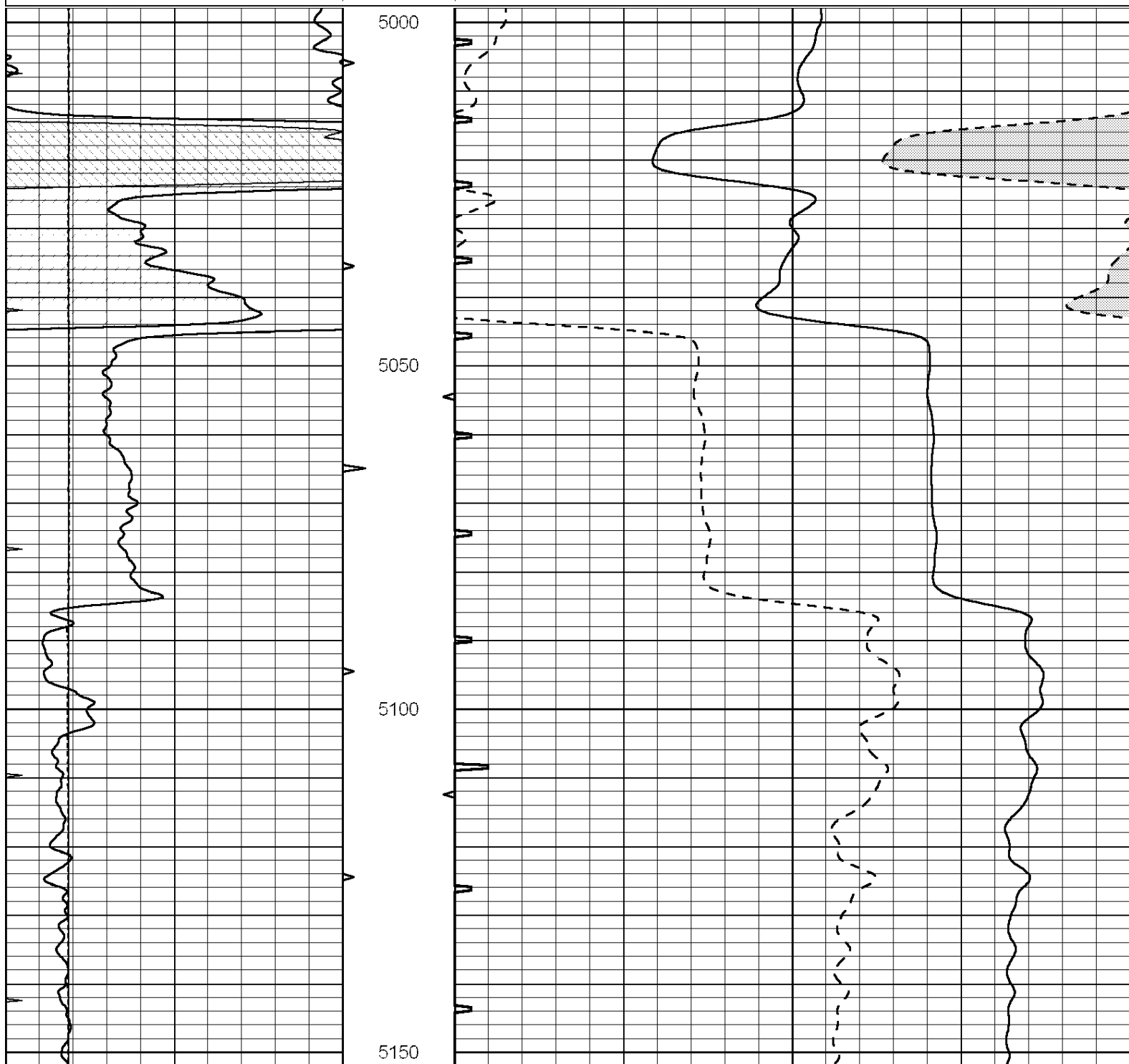
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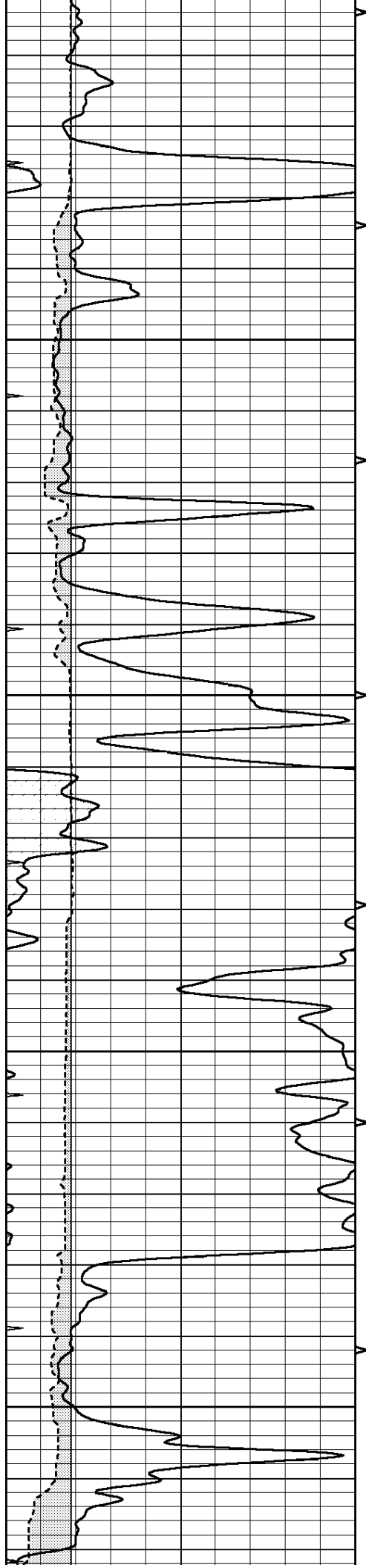
REPEAT SECTION

Database File: 25893pe.db
Dataset Pathname: pass5.1
Presentation Format: slt
Dataset Creation: Sat Oct 11 01:24:38 2014 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)		40	
6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)		-10

0	MINMK	20	TBHV	0	ITT (msec)		20	
			0 (ft3)	10				





5200

5250

5300

5350

