



MICRO LOG

Company HERTEL OIL COMPANY, LLC.
 Well CLEM #1
 Field KOBLITZ WEST
 County ELLIS
 State KANSAS

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 Field KOBLITZ WEST
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Location: API # : 15-051-26938-0000
 1900' FNL & 1850' FVL

Permanent Datum GROUND LEVEL Elevation 2150
 Log Measured From KELLY BUSHING 8' A.G.L.
 Drilling Measured From KELLY BUSHING

SEC 21 TWP 12S RGE 18W

Other Services
 CDL/CNL
 DIL

Elevation
 K.B. 2158
 D.F. 2156
 G.L. 2150

Date	11/7/18
Run Number	TWO
Depth Driller	3748
Depth Logger	3746
Bottom Logged Interval	3744
Top Log Interval	3000
Casing Driller	8 5/8" @ 221'
Casing Logger	221
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	8.9/54
pH / Fluid Loss	10.5/8.8
Source of Sample	FLOWLINE
Rim @ Meas. Temp	.600 @ 80F
Rmf @ Meas. Temp	.450 @ 80F
Rmc @ Meas. Temp	.720 @ 60F
Source of Rmf / Rmc	MEASUREMENT
Rim @ BHT	.421 @ 114F
Time Circulation Stopped	3.5 HOURS
Time Logger on Bottom	8:00 A.M.
Maximum Recorded Temperature	114F
Equipment Number	922339
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	JASON T. ALM

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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

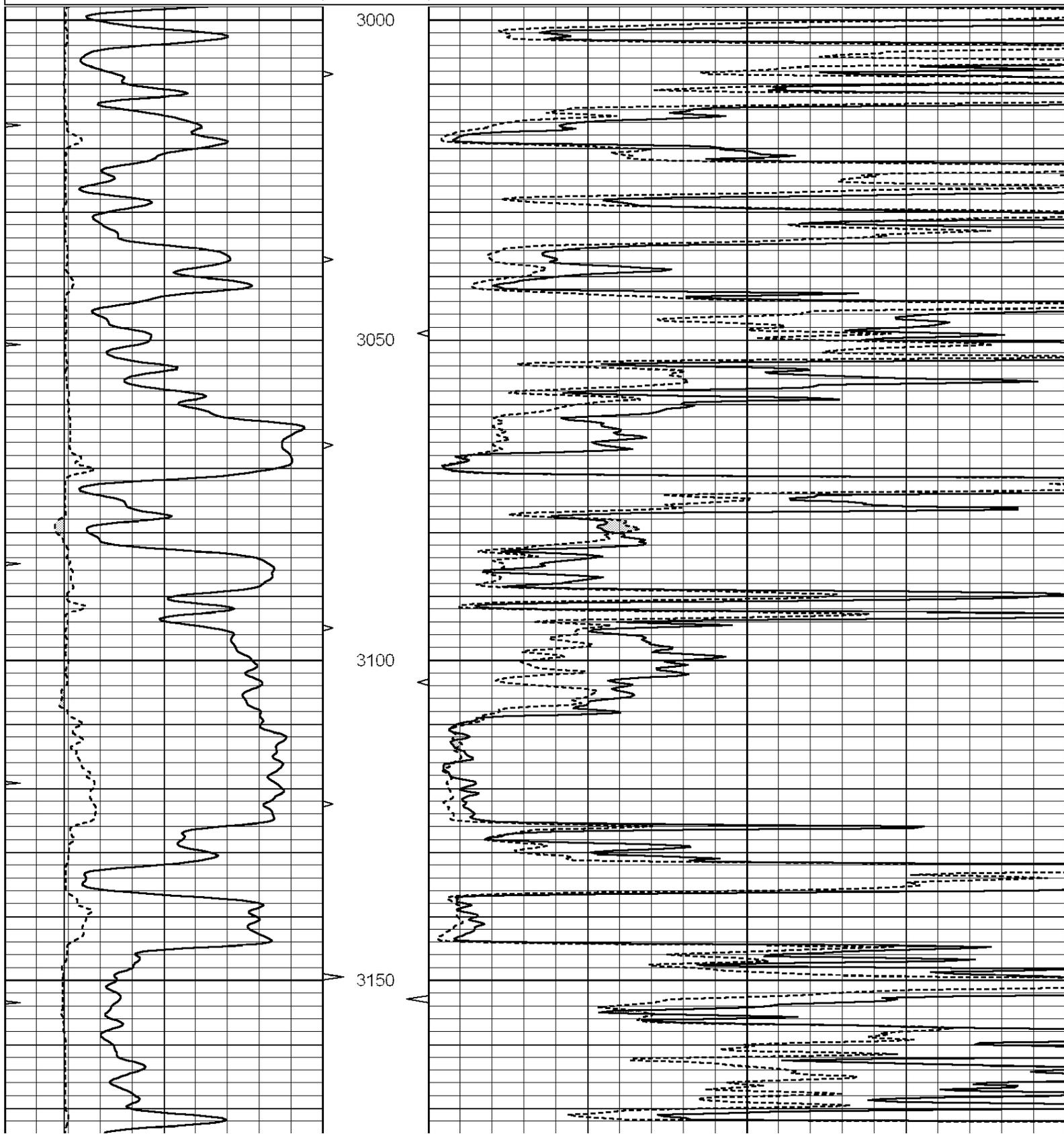
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
 DIRECTIONS
 HAYS, KS. & I-70, 7N. ON HWY 183 TO "BUCKEYE RD.", 1/2W., S. INTO

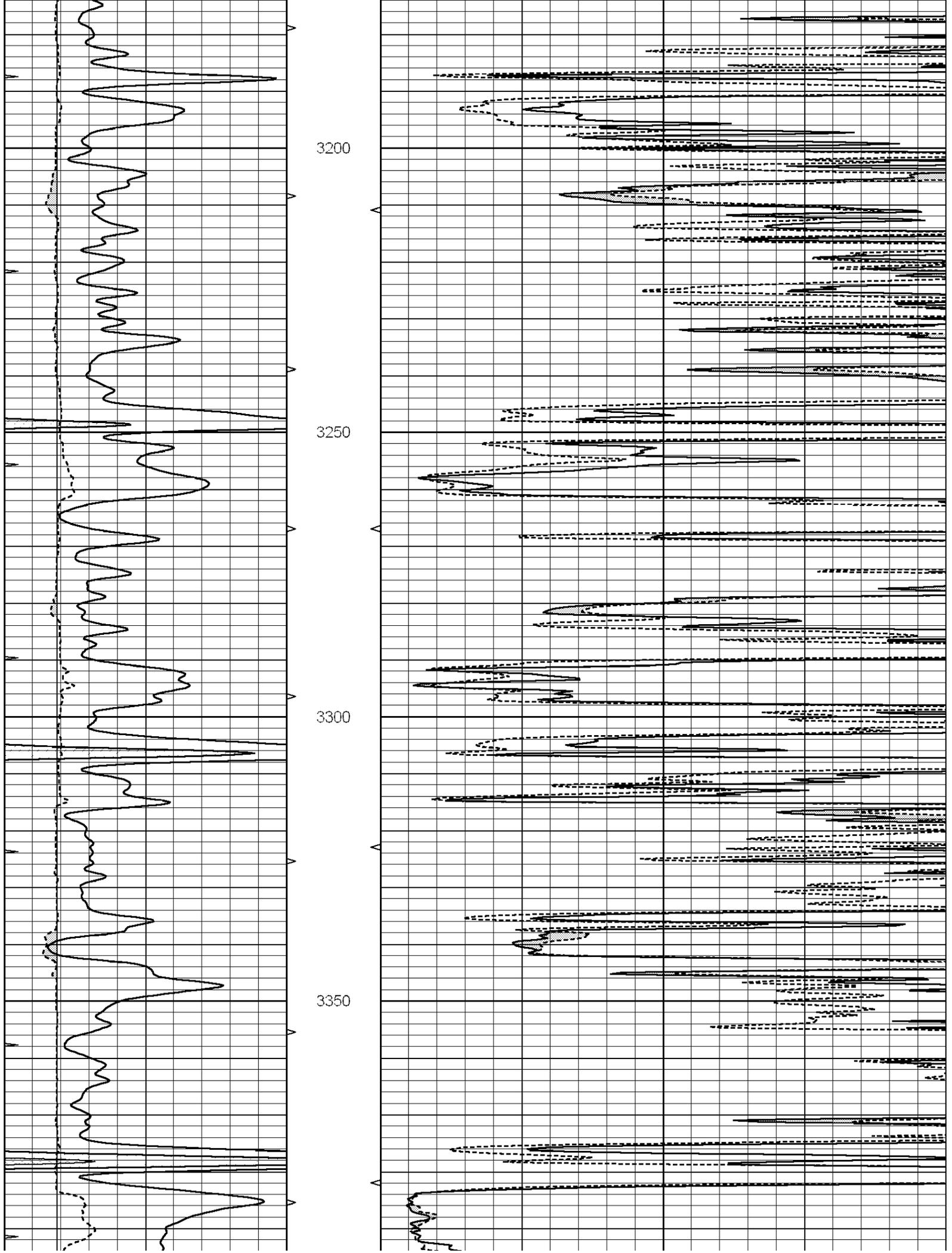


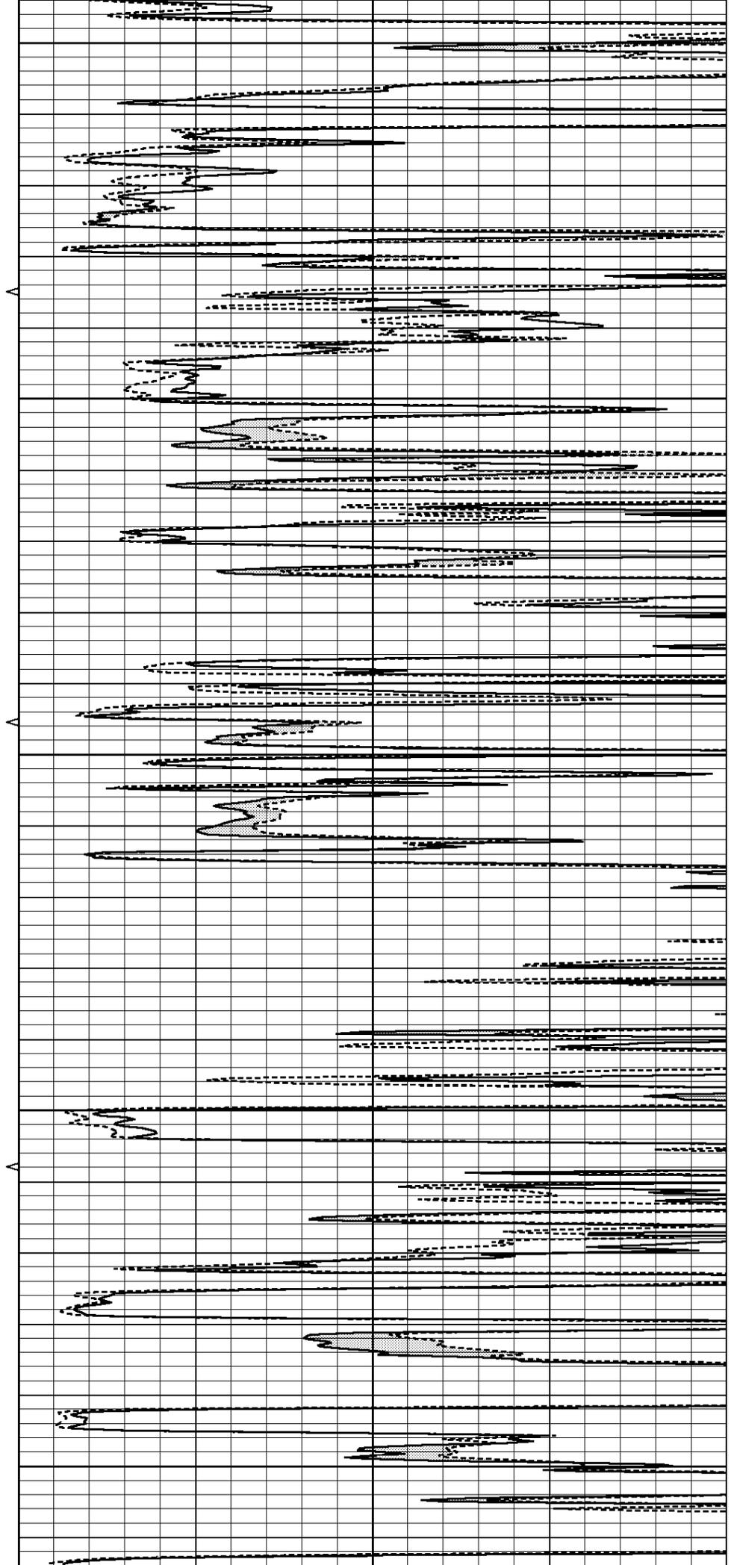
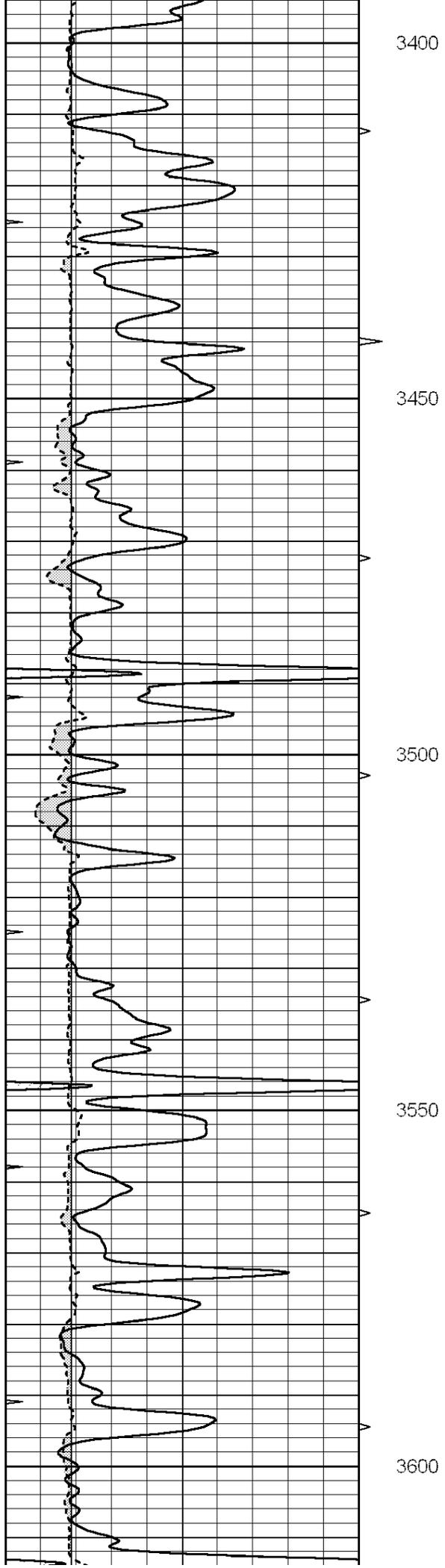
MAIN SECTION

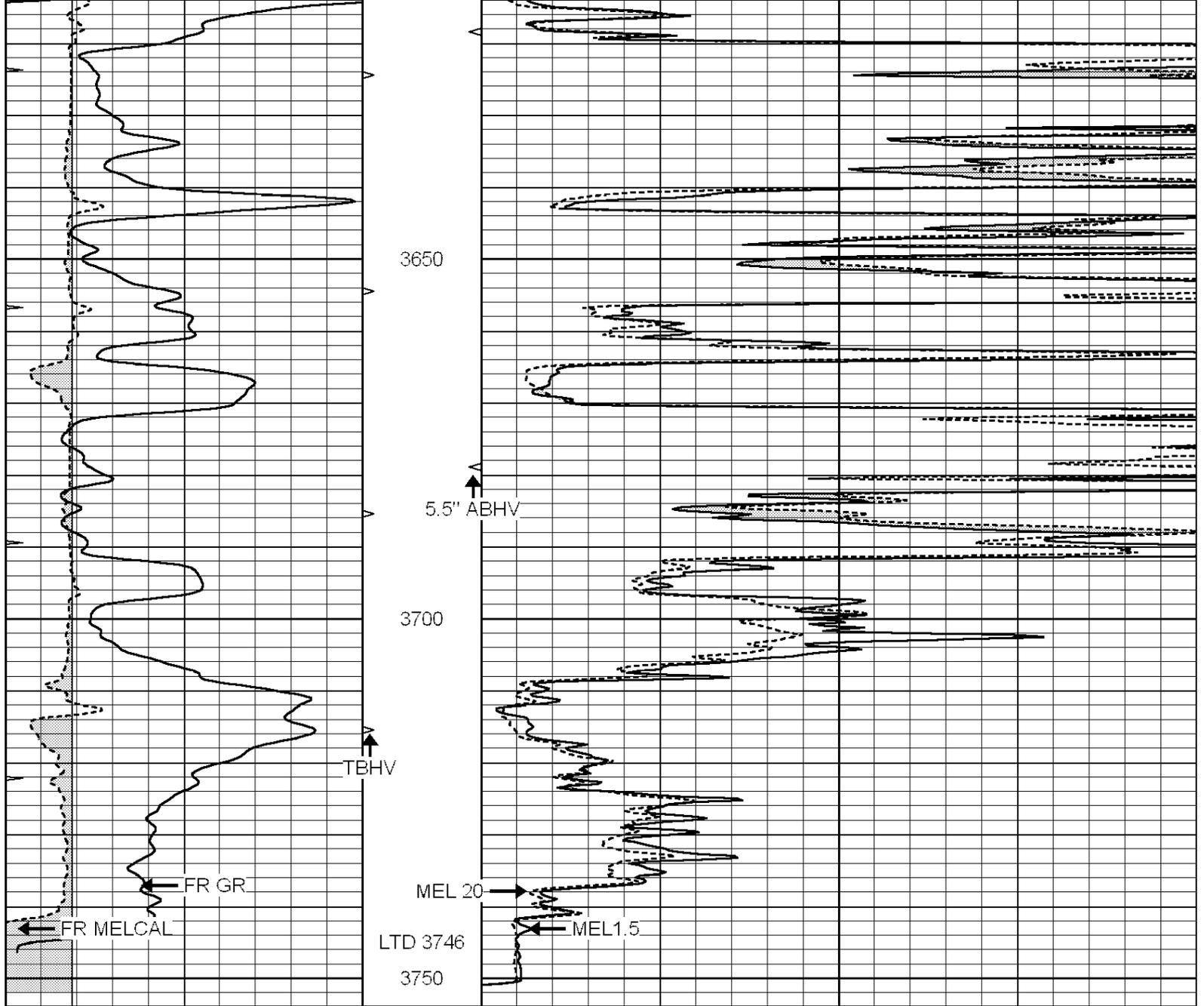
Database File: 3055ddn.db
 Dataset Pathname: pass7.1
 Presentation Format: micro
 Dataset Creation: Wed Nov 07 08:43:30 2018 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

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

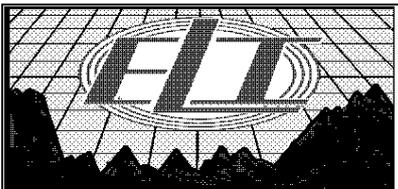








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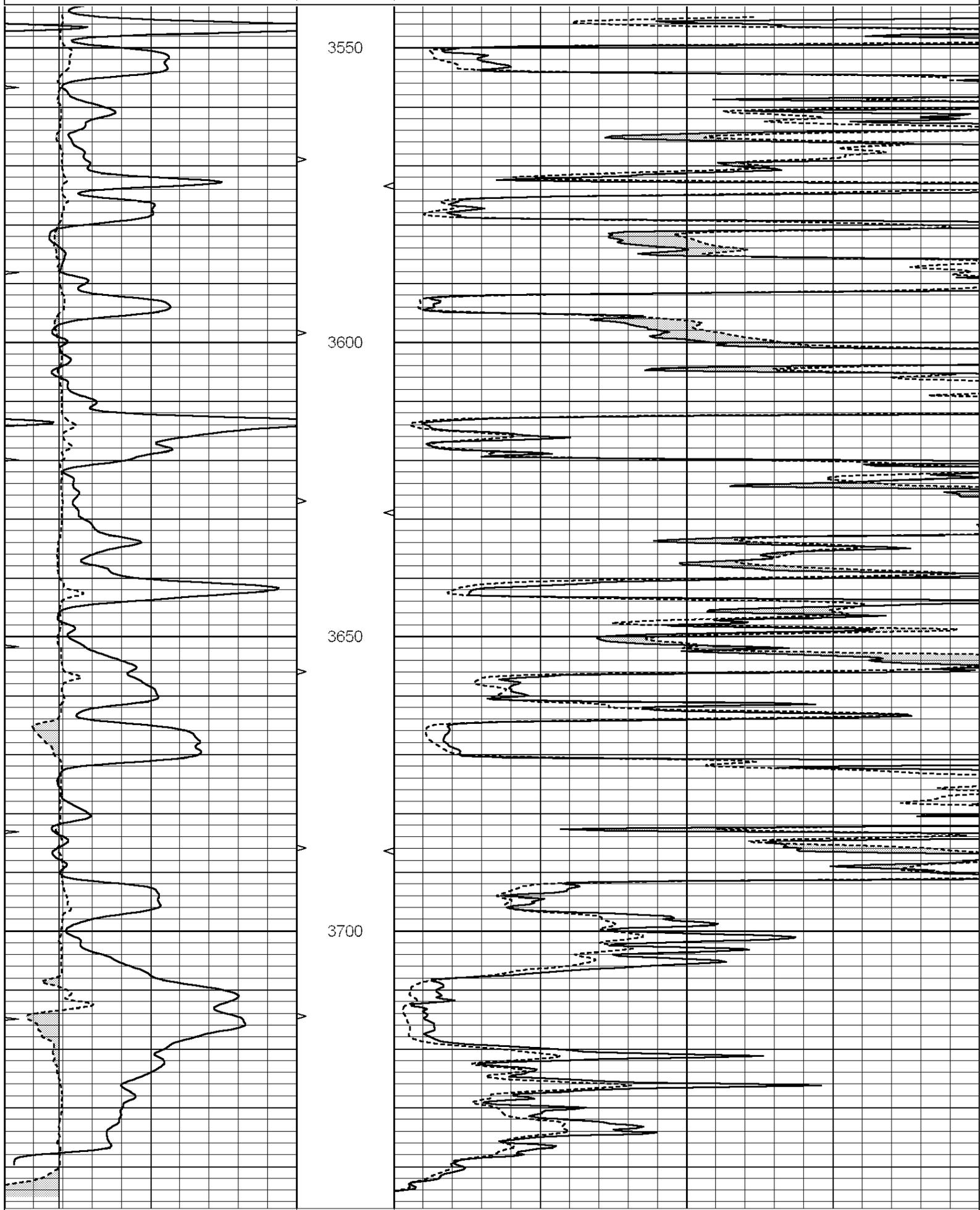


REPEAT SECTION

Database File: 3055ddn.db
 Dataset Pathname: pass6.2
 Presentation Format: micro
 Dataset Creation: Wed Nov 07 08:27:32 2018 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	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			

0 (ft3) 10



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

0	MINMK	20	TBHV
		0	(ft3) 10

Calibration Report

Database File: 3055ddn.db
Dataset Pathname: pass7.1
Dataset Creation: Wed Nov 07 08:43:30 2018 by Calc SOC 120430

MICRO Calibration Report

Serial Number: 070911
Tool Model: ProbeN
Performed: Sat Nov 03 13:33:04 2018

Caliper Calibration:	Gain=4.612	Offset=1.204
	Low Cal	High Cal
References	7.800	20.000
Readings	1.430	4.075

1.5" Calibration:	Gain=60.000	Offset=-2.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.001	1.240

2" Calibration:	Gain=65.000	Offset=-2.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.001	1.076

Gamma Ray Calibration Report

Serial Number: 070559
Tool Model: OPEN_GR
Performed: Wed Nov 07 08:33:43 2018

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2300	GAPI/cps