



COMPENSATED DENSITY / NEUTRON LOG

Company DARRAH OIL COMPANY, LLC.

Well YOUNKIN #1-11

Field WILDCAT

County LOGAN State KANSAS

Location: API #: 15-109-21603-0000

SEC 11 TWP 14S RGE 34W

Permanent Datum GROUND LEVEL Elevation 2885
Log Measured From KELLY BUSHING 11" A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DILMEL
SONIC
Elevation
K.B. 2896
D.F. 2894
G.L. 2885

Date 6/28/20

Run Number ONE

Depth Driller 4650

Depth Logger 4650

Bottom Logged Interval 4626

Top Log Interval 3000

Casing Driller 8 5/8" @ 267'

Casing Logger 267

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD CHLORIDES 7,000 PPM

Density / Viscosity 9.3/58

pH / Fluid Loss 9.0/9.6

Source of Sample FLOWLINE

Rm @ Meas. Temp .420 @ 90F

Rmf @ Meas. Temp .315 @ 90F

Rmc @ Meas. Temp .504 @ 90F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .310 @ 122F

Time Circulation Stopped 2.5 HOURS

Time Logger on Bottom 9:30 P.M.

Maximum Recorded Temperature 122F

Equipment Number 922339

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By SETH EVENSON

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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

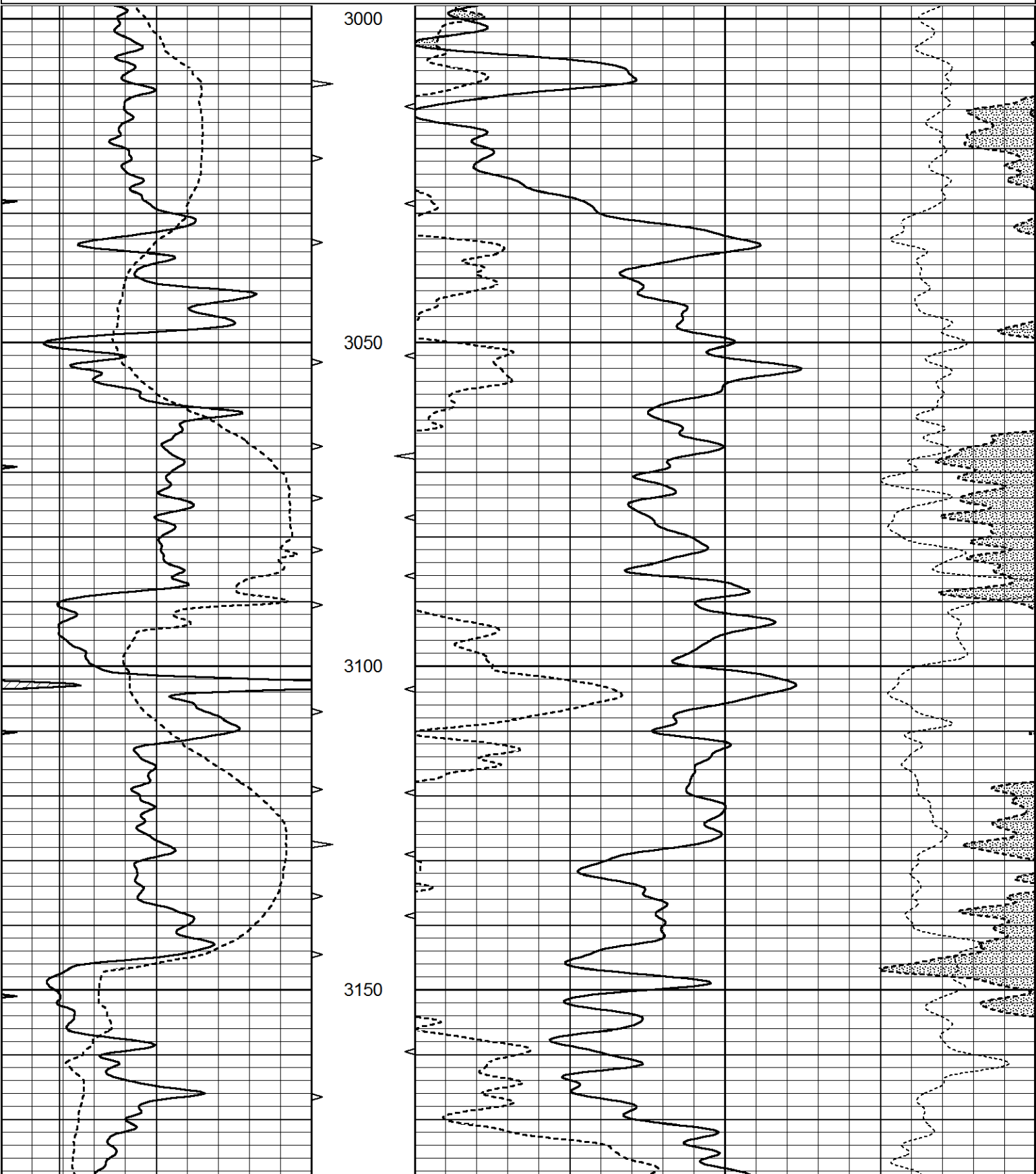
THANK YOU FOR USING E.L.I. WIRELINE SERVICES HAYS, KANSAS (785)628-6395
DIRECTIONS
OAKLEY, KS., 13S. ON HWY 83 TO "QUAIL RD.", 7W. TO "RD. 370" 1S. TO "PLAINS RD.", 2W. TO "RD. 350", 4S. TO "LARIAT RD.", 1W. TO CATTLE GUARD, THEN 1/2 W. IN PASTURE

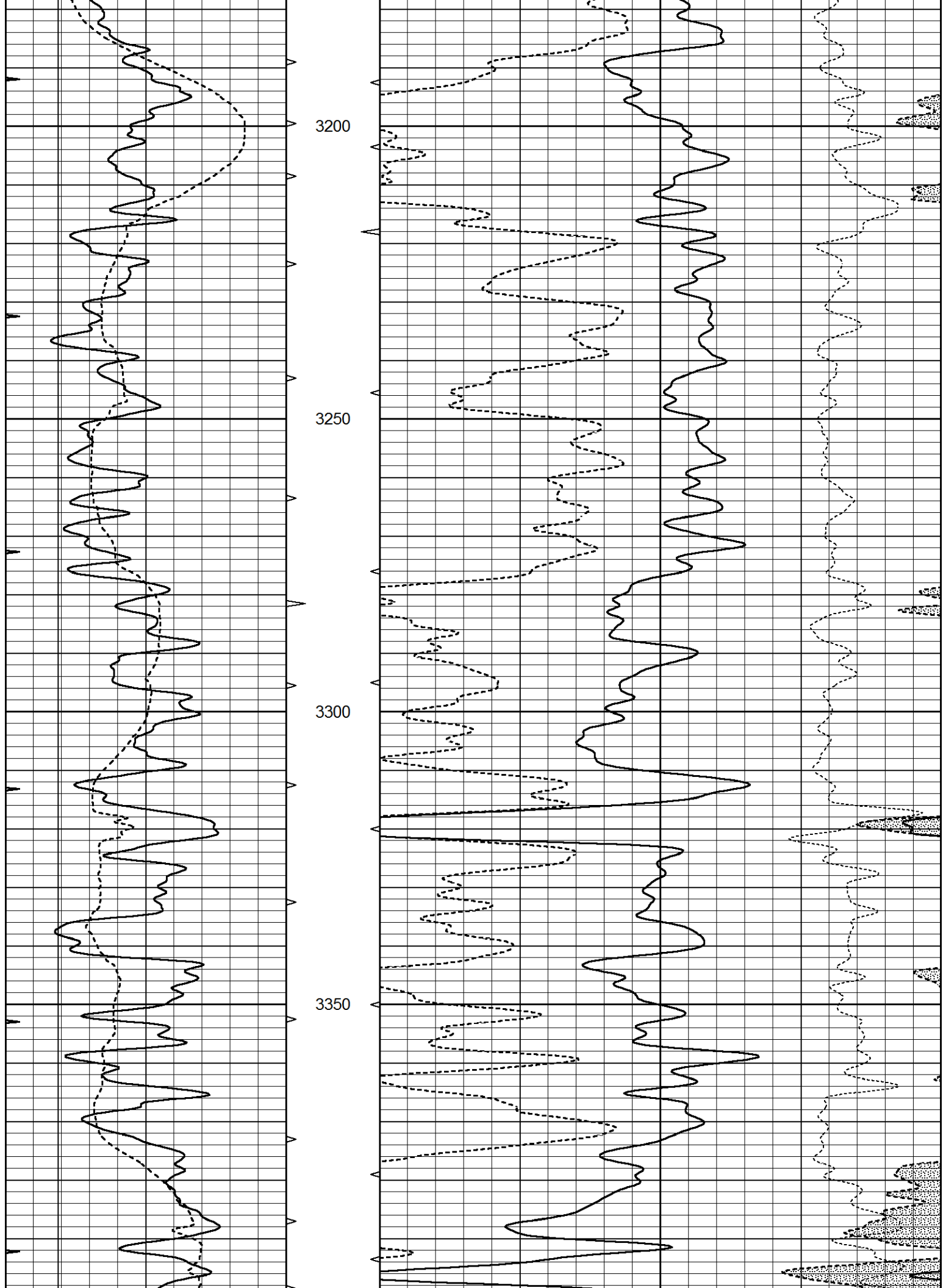


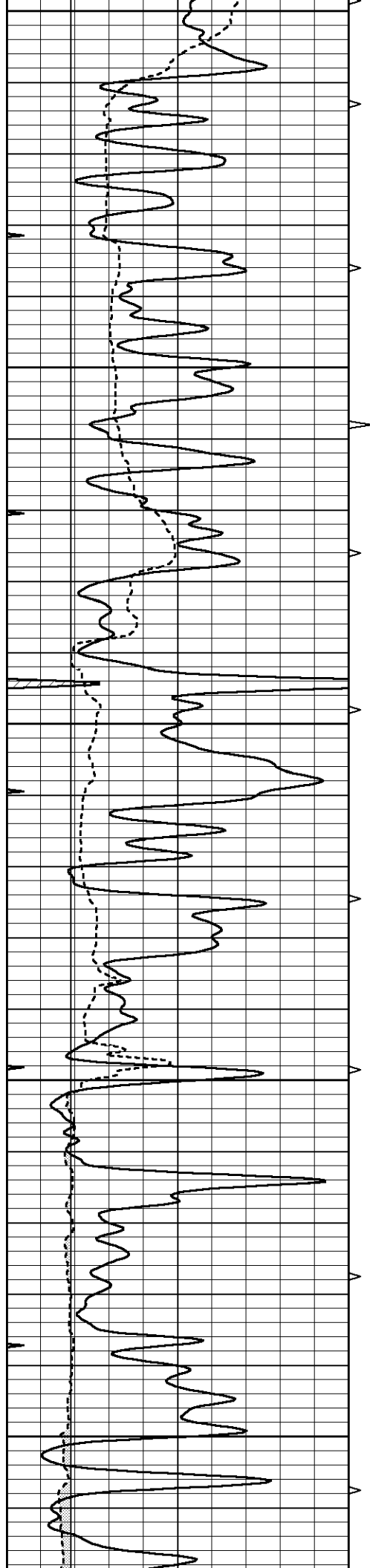
MAIN SECTION

Database File	4548ddn.db
Dataset Pathname	pass3.6
Presentation Format	den_neu
Dataset Creation	Sun Jun 28 23:14:24 2020
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	DCAL (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			







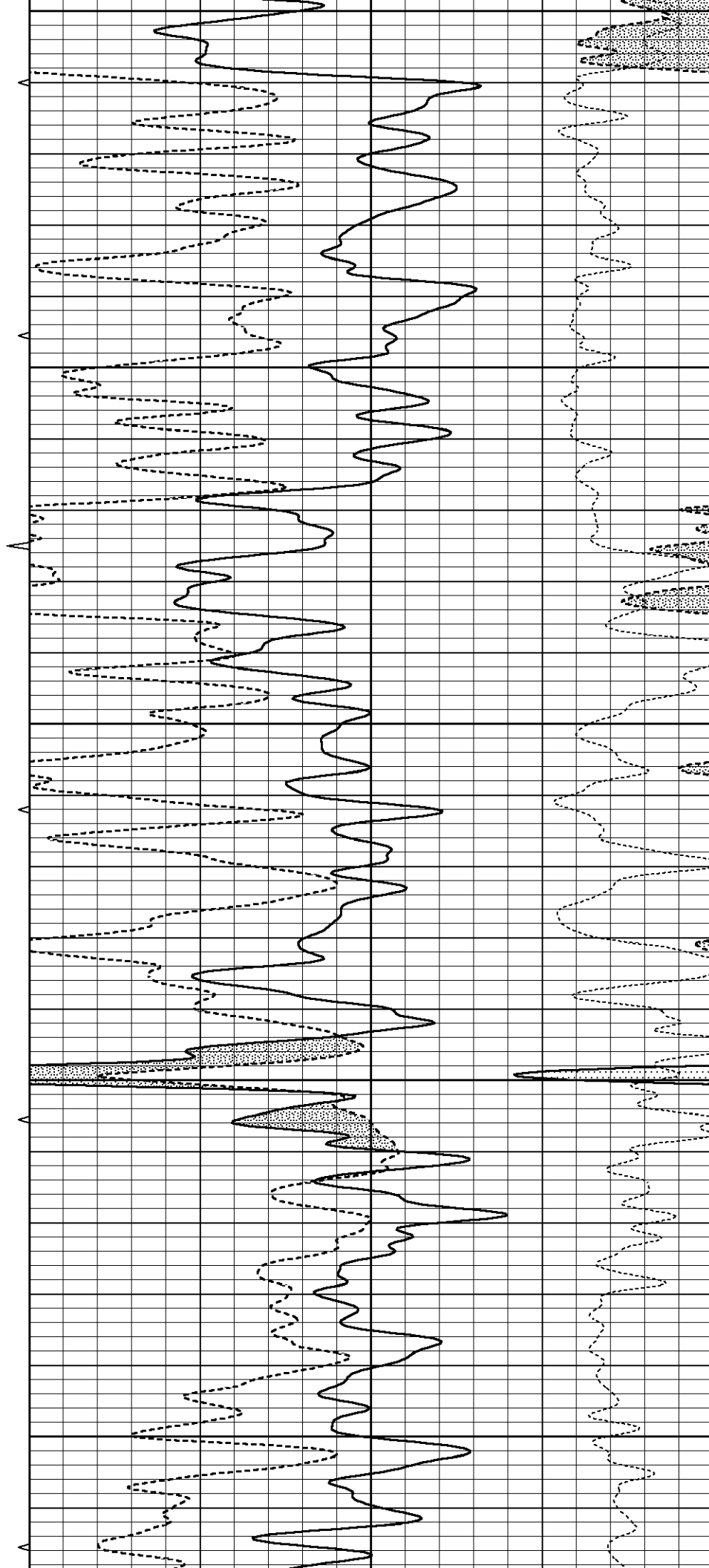
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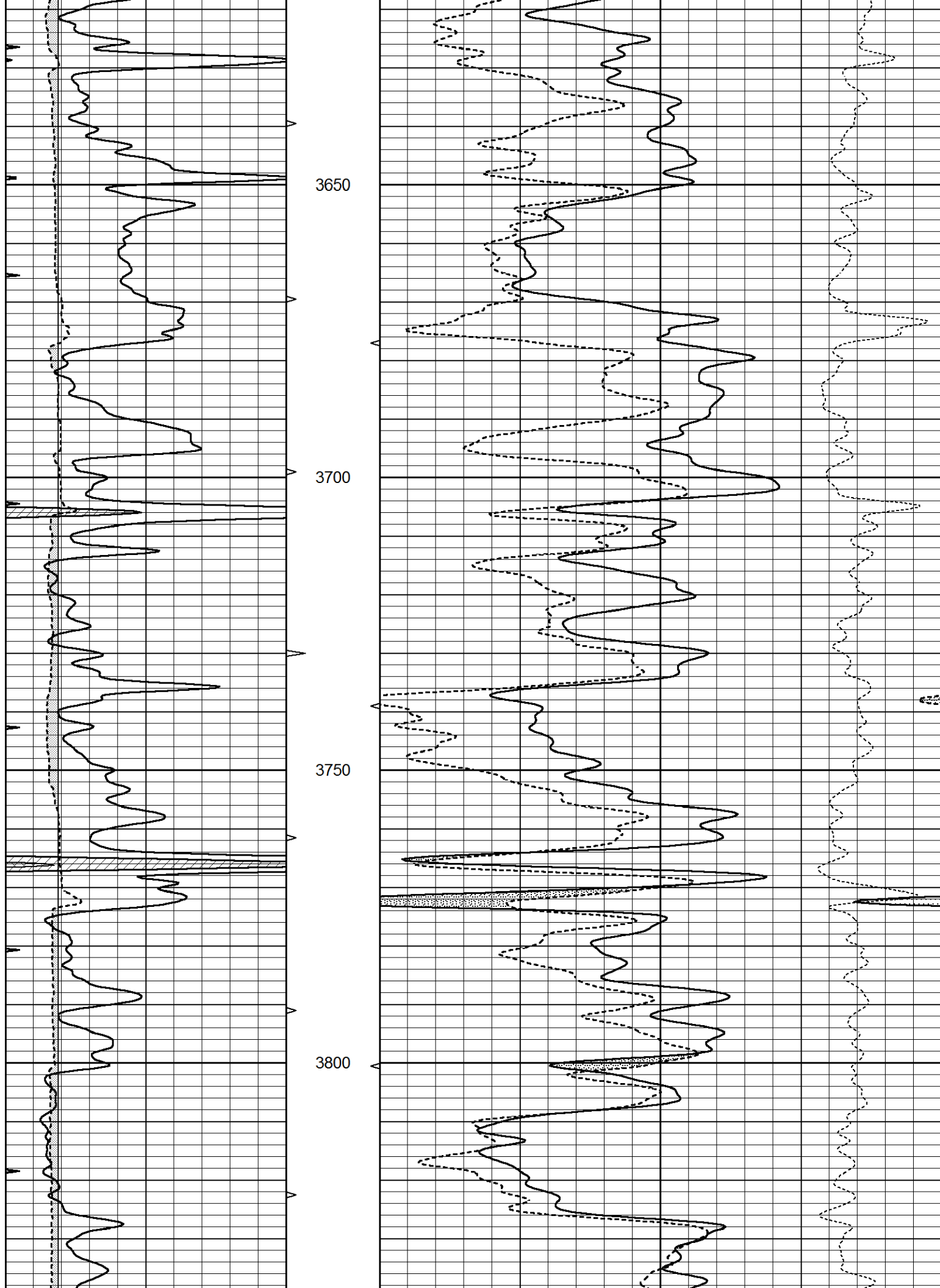
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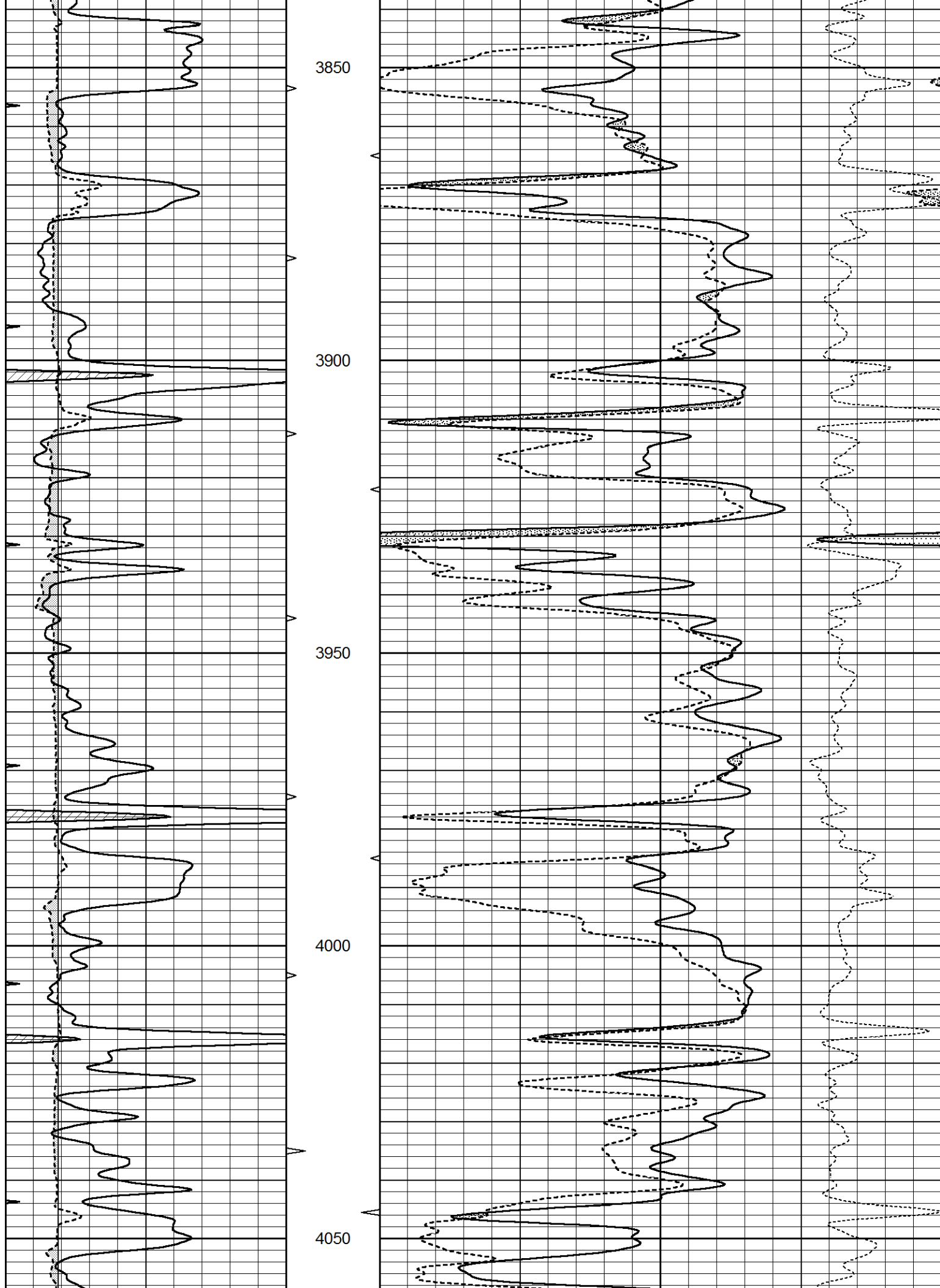
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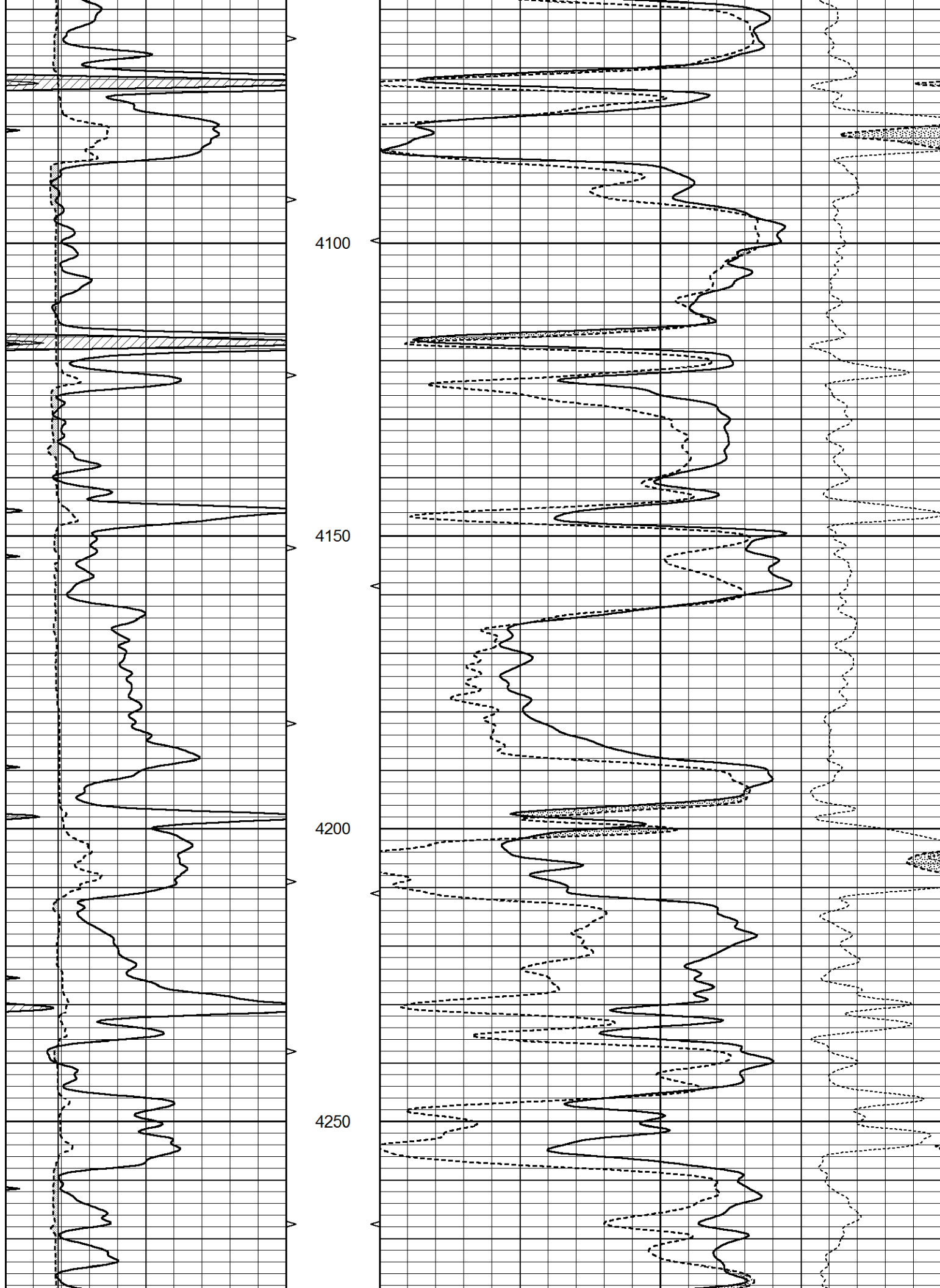
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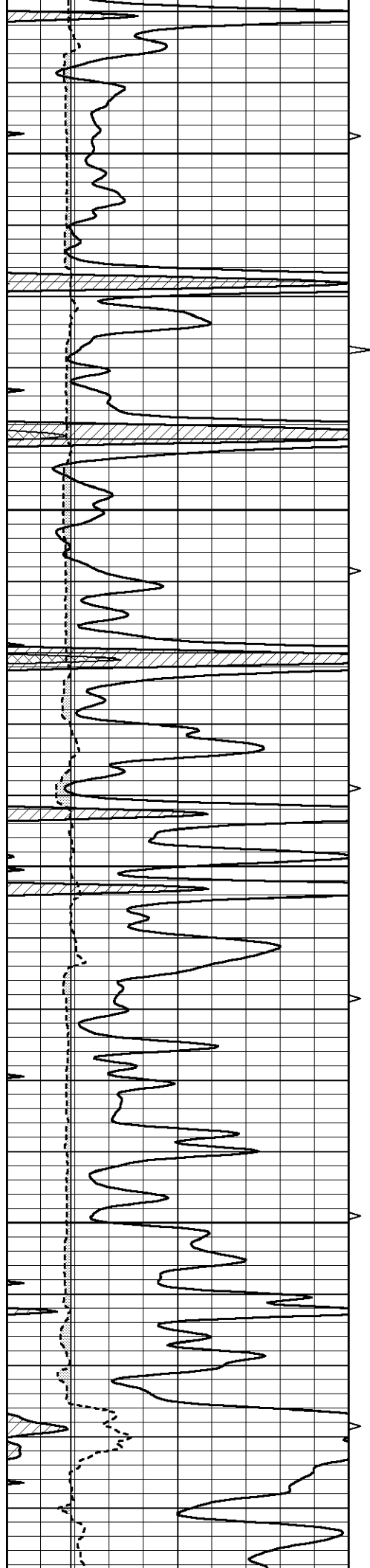
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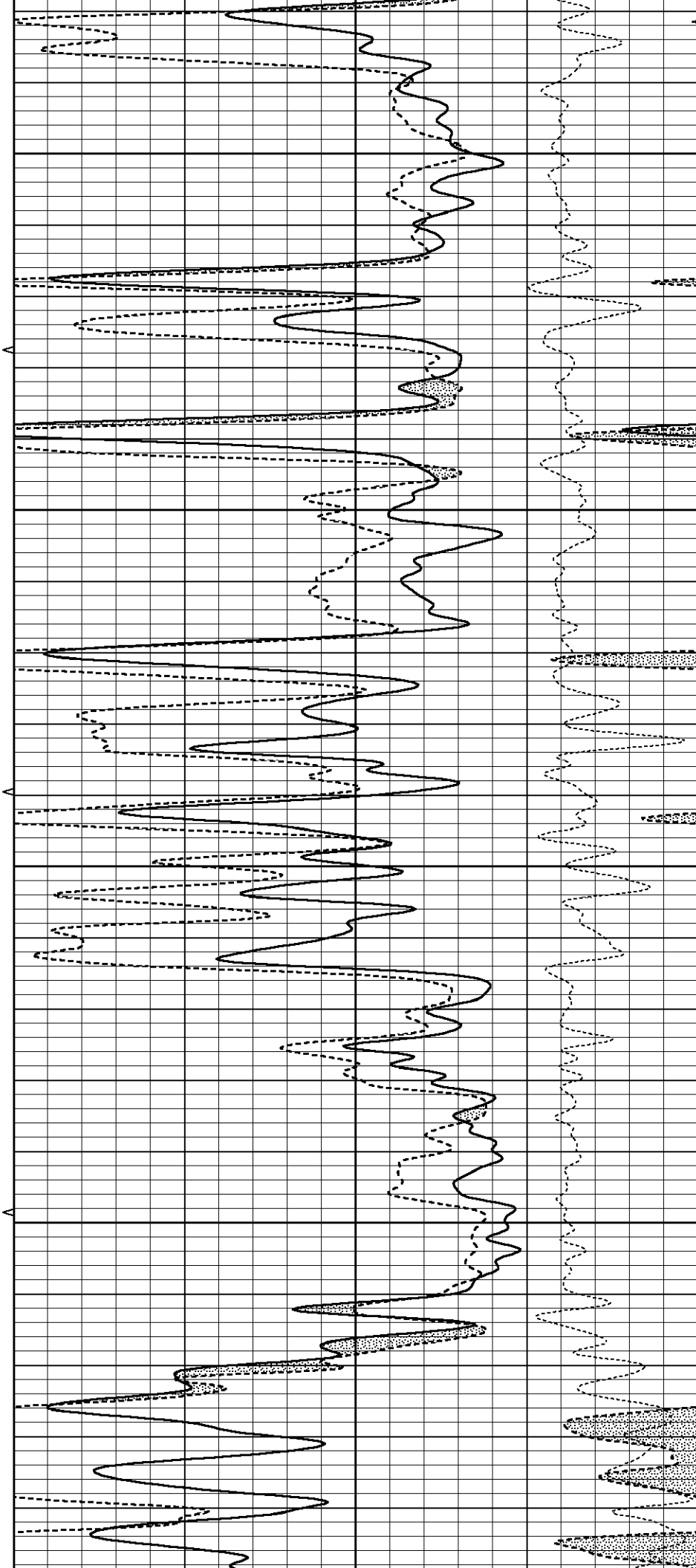


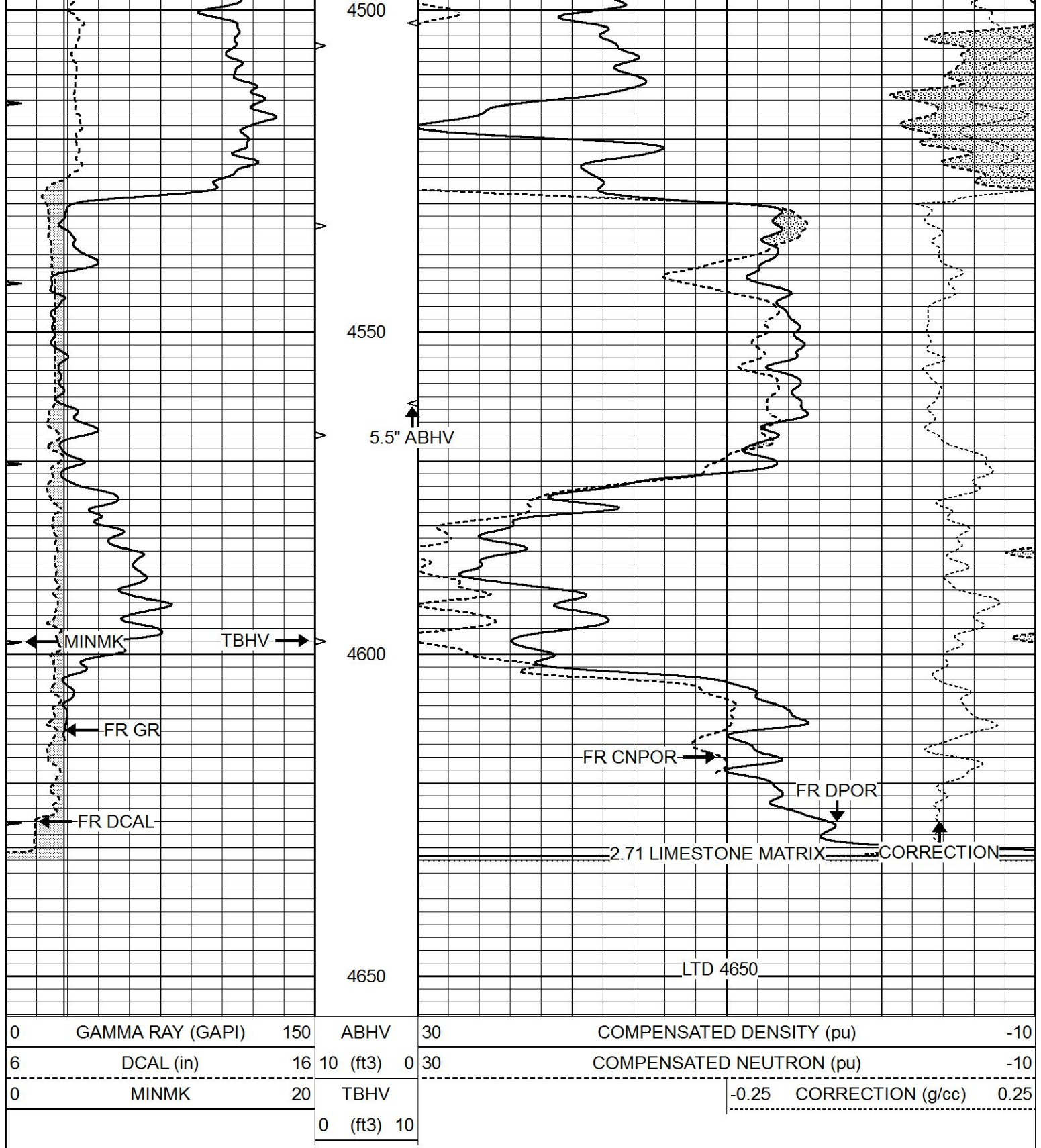
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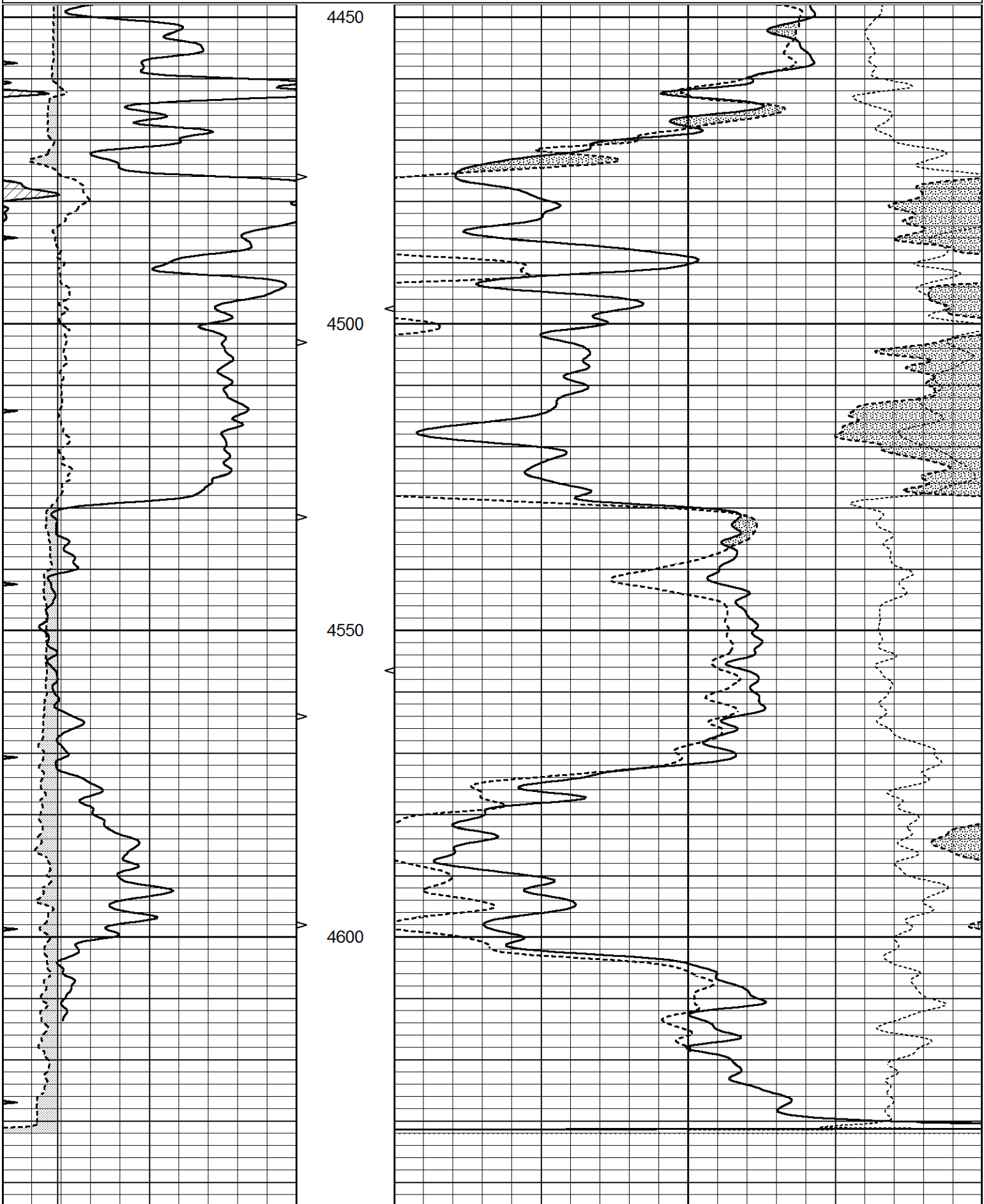




REPEAT SECTION

Database File 4548ddn.db
 Dataset Pathname pass2.2
 Presentation Format den_neu
 Dataset Creation Sun Jun 28 22:03:46 2020
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	DCAL (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			



[illegible]

Window 3	934.1	5176.2	1855.7	1739.5	cps
Window 4	267.0	271.6	264.8	264.9	cps
Long Space	0.0	7494.2	1709.8	1431.6	cps
Short Space	1.1	1784.3	1183.7	971.1	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 44.5	Rib Slope	: 0.982	Density/Spine Ratio	: 0.574
Spine Angle	: 74.5	Spine Slope	: 3.601	Spine Intercept	: -18.0

Before Survey Verification		Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification		Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

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Compensated Neutron Calibration Report

Serial Number:	070808PMC
Tool Model:	NABORS

PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	070558
Tool Model:	OPEN_GR
Performed:	Wed Jul 03 10:25:53 2019
Calibrator Value:	1.0
	GAPI

Background Reading:

0.0

cps

Calibrator Reading:

1.0

cps

Sensitivity:

0.3000

GAPI/cps