

COMPENSATED DENSITY/NEUTRON LOG

Company CASTLE RESOURCES, INC.

Well HOLSTE #1

Field WILDCAT

County RAWLINS State KANSAS

Location: API # : 15-153-21218-0000

330' FNL & 330' FWL
NW-NW-NW

SEC 23 TWP 2S RGE 33W

Permanent Datum GROUND LEVEL Elevation 2970
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL

Elevation
K.B. 2975
D.F. 2973
G.L. 2970

Date 1/24/19 1/25/19

Run Number ONE TWO

Depth Driller 4200 4562

Depth Logger 4202 4564

Bottom Logged Interval 4178 4540

Top Log Interval 3600 4150

Casing Driller 8 5/8" @ 254' 8 5/8" @ 254'

Casing Logger 254 254

Bit Size 7 7/8" 7 7/8"

Type Fluid in Hole CHEMICAL MUD CHEMICAL MUD CHLORIDES 5000 PPM

Density / Viscosity 8.5/42 9.1/50

pH / Fluid Loss 11.5/8.0 10.1/6.8

Source of Sample FLOWLINE FLOWLINE

Rm @ Meas. Temp .65 @ 55F .60 @ 62F

Rmt @ Meas. Temp .48 @ 55F .45 @ 62F

Rmc @ Meas. Temp .78 @ 55F .72 @ 62F

Source of Rmf / Rmc MEASUREMENT MEASUREMENT

Rm @ BHT .30 @ 118F .31 @ 120F

Time Circulation Stopped 2 HOURS 2 HOURS

Time Logger on Bottom 118F 120F

Maximum Recorded Temperature 3802 3802

Equipment Number 3802 3802

Location HAYS, KANSAS HAYS, KANSAS

Recorded By JASON CAPPELLUCCI JASON CAPPELLUCCI

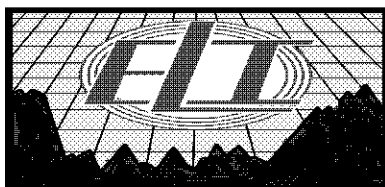
Witnessed By JERRY GREEN JERRY GREEN

>>> 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.

Comments

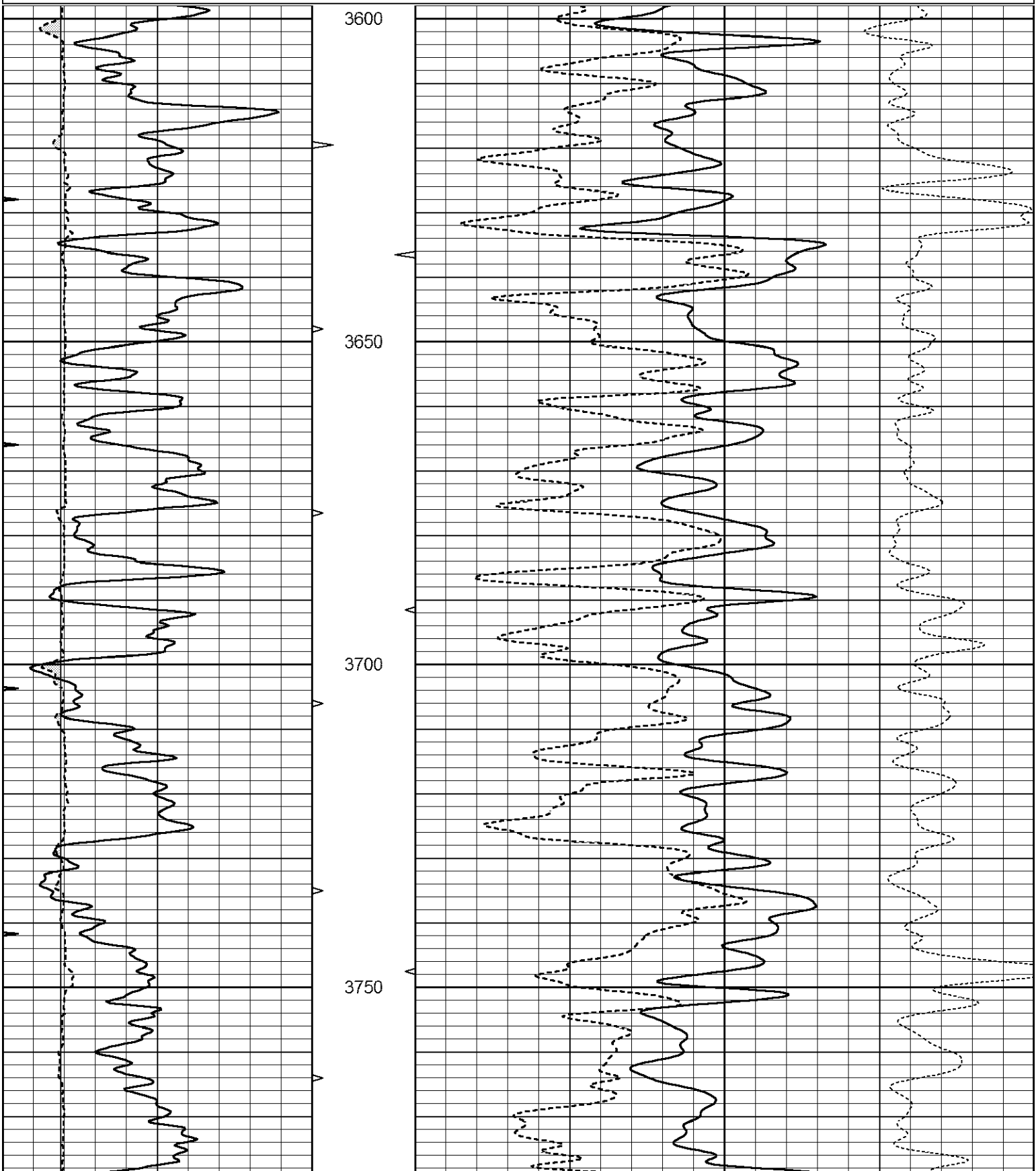
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
ATWOOD, KS. - 2 1/2 NORTH TO RD. T.5 - 2 EAST TO THE T - 1 NORTH - EAST INTO

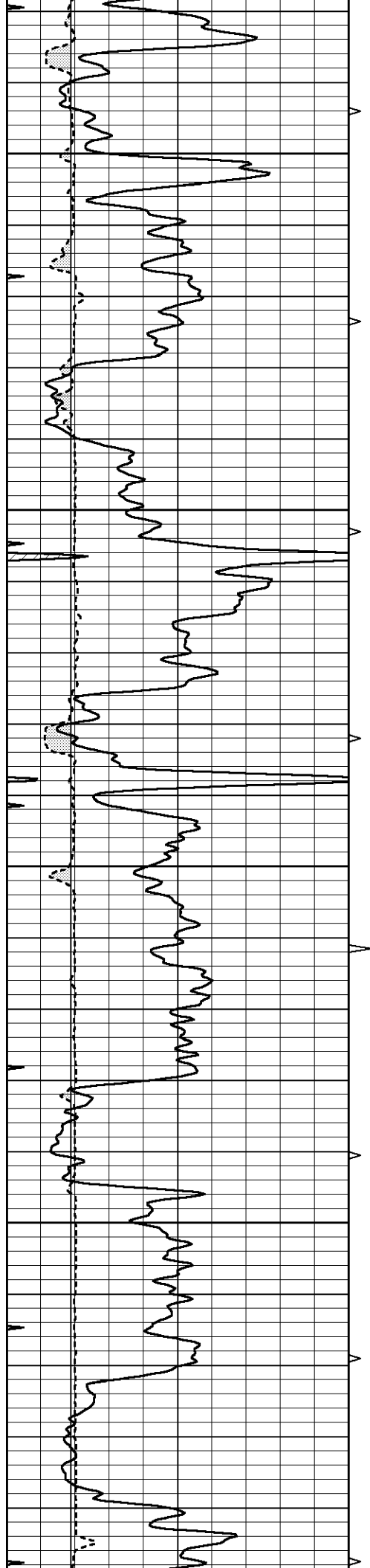


MAIN SECTION

Database File	3438ddn8.db
Dataset Pathname	pass8.1
Presentation Format	_den_neu
Dataset Creation	Fri Jan 25 19:42:31 2019
Charted by	Depth in Feet scaled 1:240

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



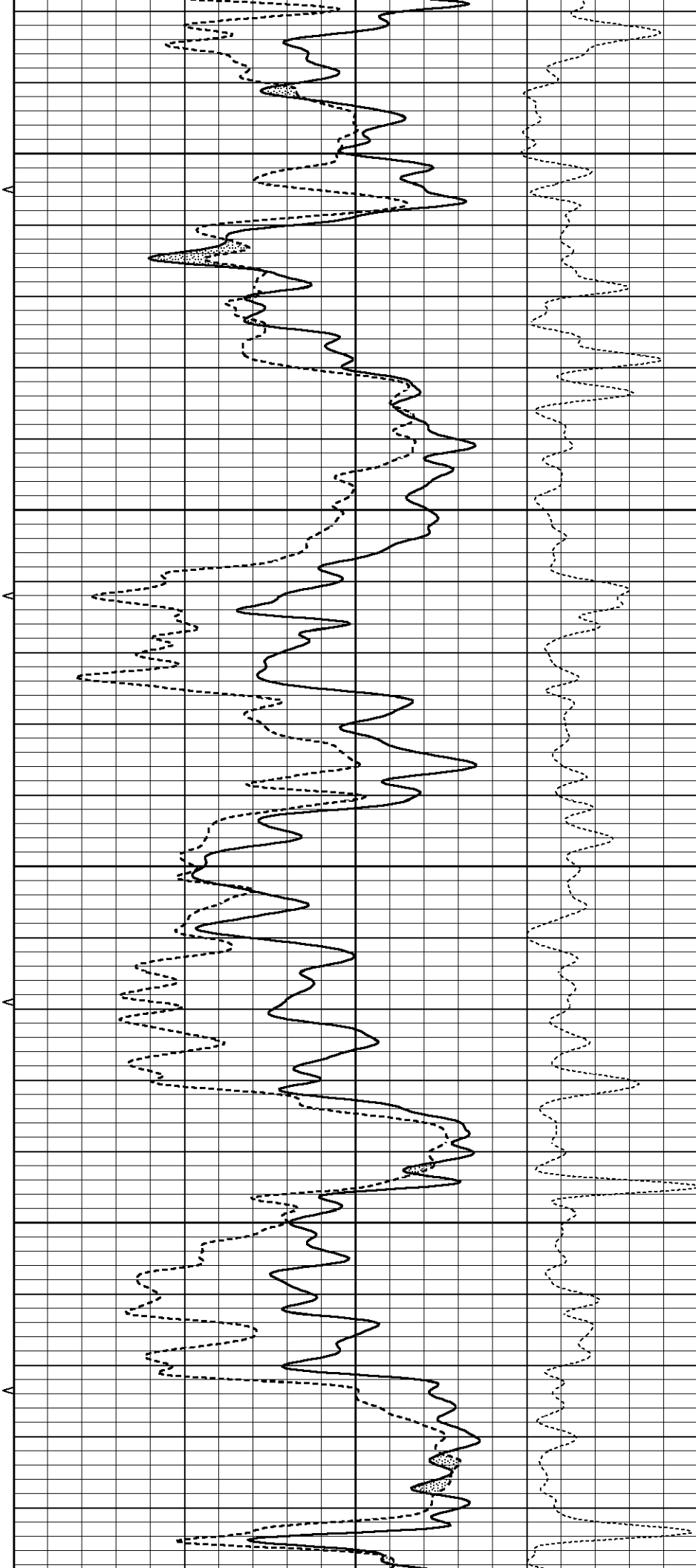


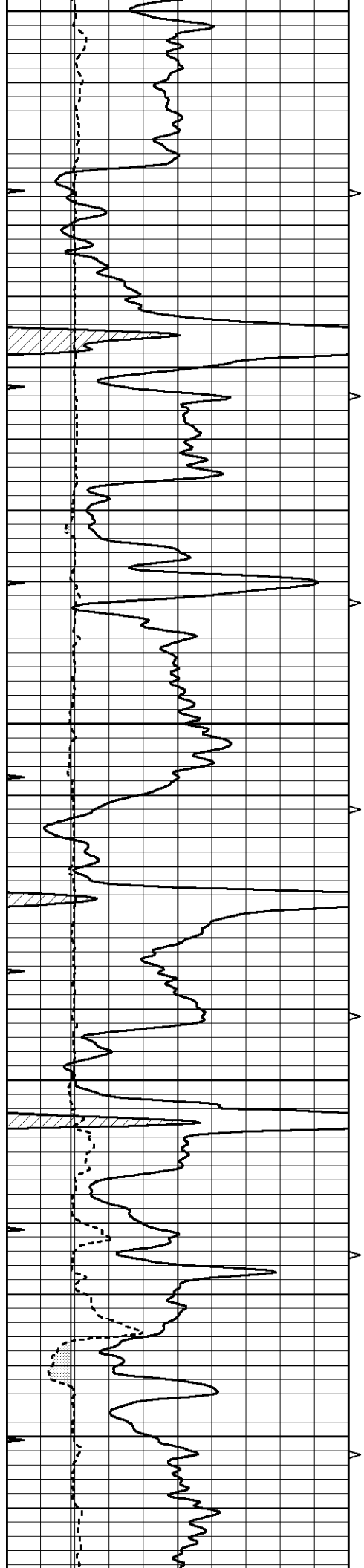
3800

3850

3900

3950





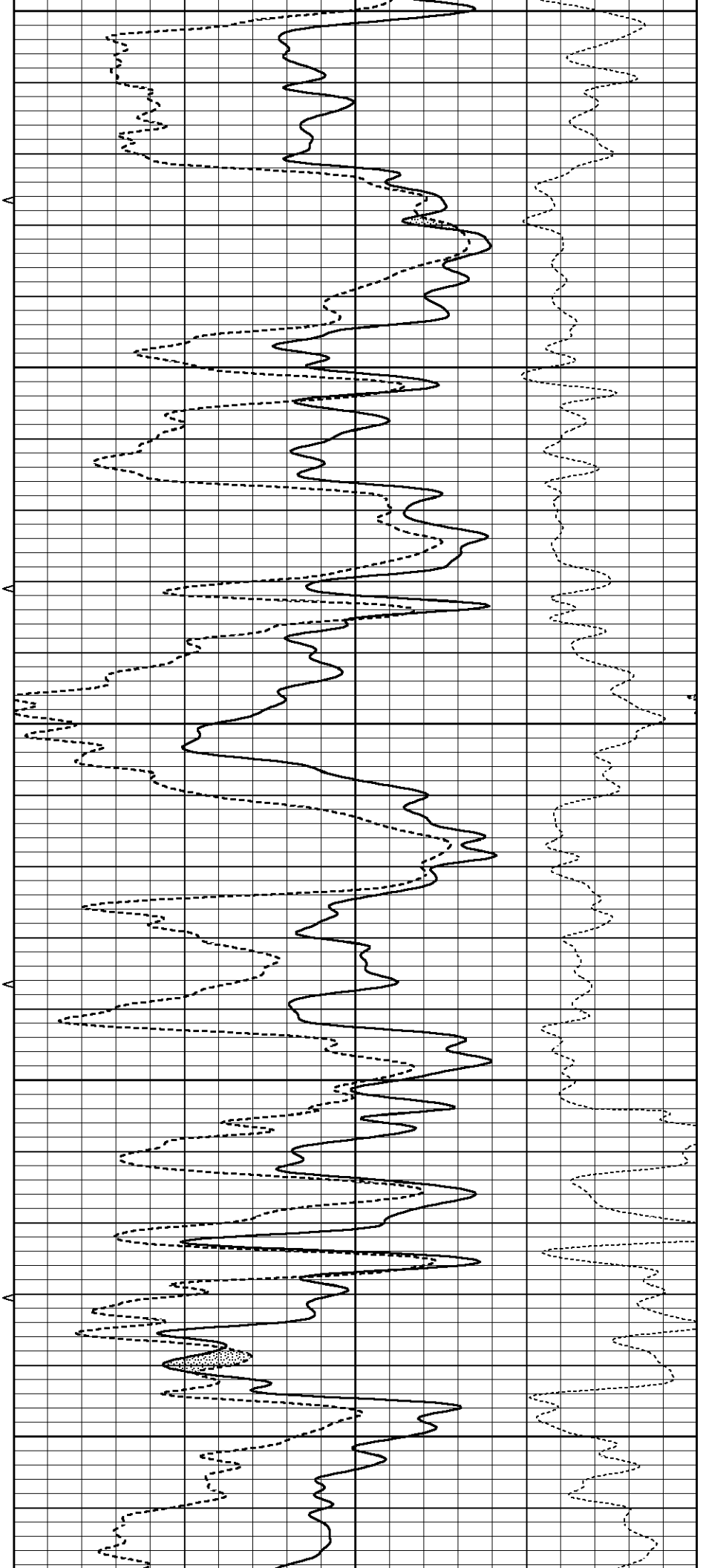
4000

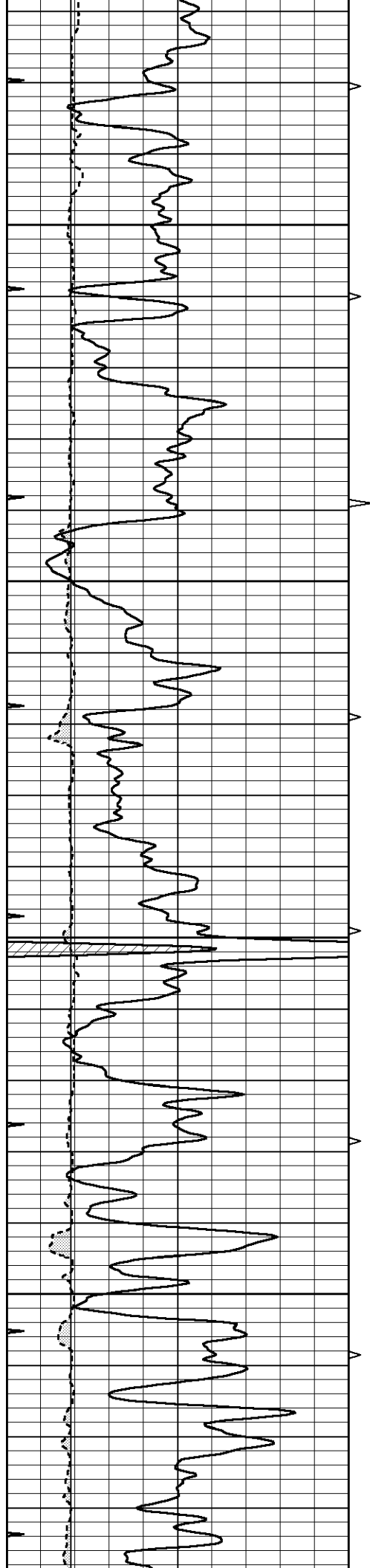
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4100

4150

4200



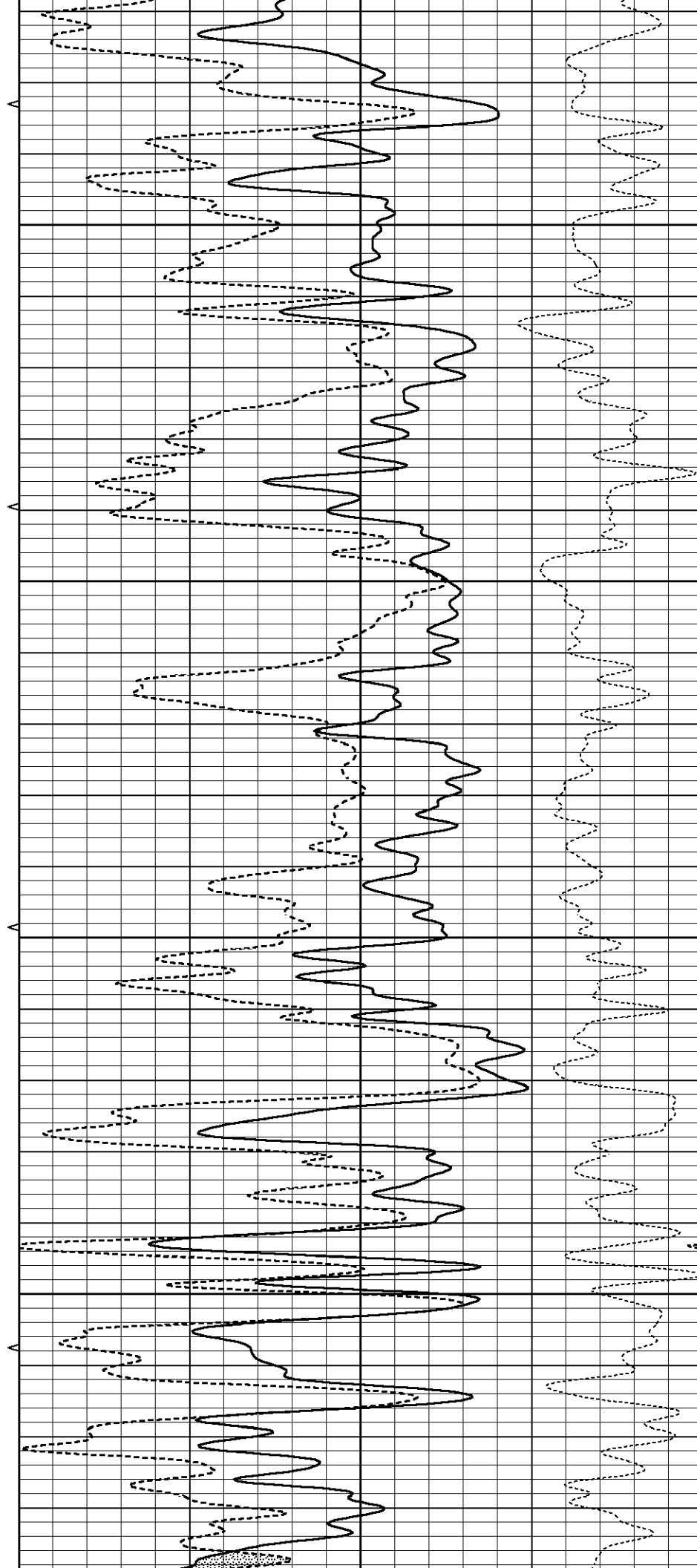


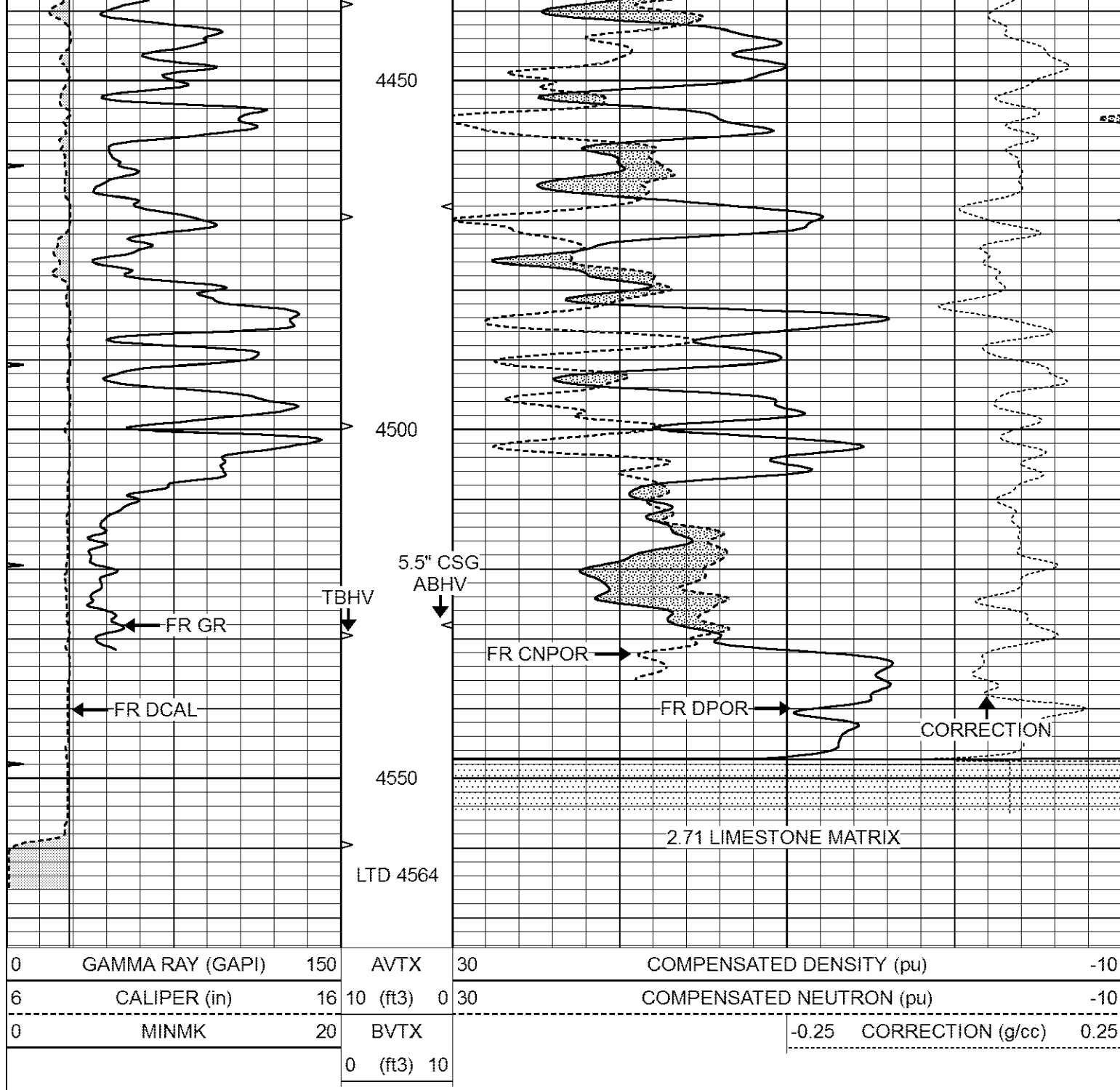
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4300

4350

4400

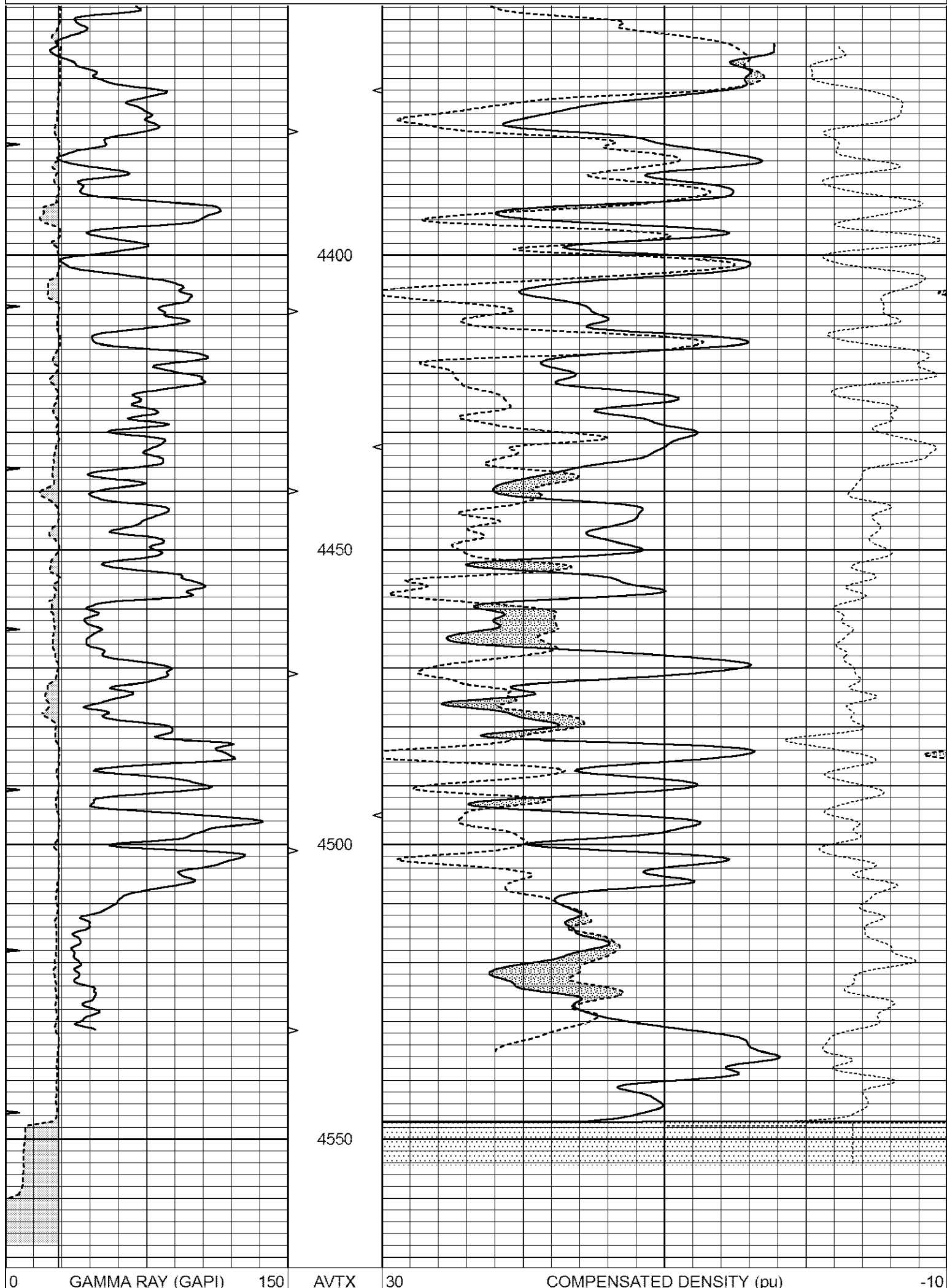




REPEAT SECTION

Database File 3438ddn8.db
 Dataset Pathname pass7.1
 Presentation Format _den_neu
 Dataset Creation Fri Jan 25 19:44:44 2019
 Charted by Depth in Feet scaled 1:240

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



6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)			-10
0	MINMK	20	BVTX			-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10					

Calibration Report	
Database File	3438ddn8.db
Dataset Pathname	pass2.1
Dataset Creation	Thu Jan 24 08:08:03 2019

Dual Induction Calibration Report

Serial-Model:	FW1410-55-Probe
Surface Cal Performed:	Mon May 22 14:23:32 2017
Downhole Cal Performed:	Thu Mar 12 09:29:20 2015
After Survey Verification Performed:	Thu Mar 12 09:29:20 2015

Surface Calibration		Readings		References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration		Readings		References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification		Readings		Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report	
Serial:	140704
Model:	V4_10P
Source Number:	74GBq-19

Master Calibration		Performed: Fri Jan 18 10:53:52 2019		
	Background	Aluminum	Magnesium	
Window 1	563.20	5403.39	24190.50	cps
Window 2	44.78	1243.51	6049.93	cps
Window 4	247.62	1222.40	5239.60	cps
Window 5	568.17	8975.27	17094.80	cps

Window 6	44.48	1484.88	2922.28	cps	
Window 8	270.82	2877.34	5377.89	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8641	SS Alpha:	: -0.7692	LS CPE:	: 1.1004
LS Beta:	: 127931.7253	SS Beta:	: 20075.8142	SS CPE:	: 1.5209

Before Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969	
Window 1	0.00	cps		
Window 2	0.00	cps		
Window 4	0.00	cps		
Window 5	0.00	cps		
Window 6	0.00	cps		
Window 8	0.00	cps		

After Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969	
Window 1	0.00	cps		
Window 2	0.00	cps		
Window 4	0.00	cps		
Window 5	0.00	cps		
Window 6	0.00	cps		
Window 8	0.00	cps		

Lithodensity Caliper Calibration			Performed: Fri Jan 18 10:53:52 2019		
Results	Readings		References (in)		
	Low	High	Low	High	
	90.2	3611.6	8.0	14.0	
					Gain
					Offset
					0.0
					7.8

Before Survey Caliper Verification			Performed:	
	Reference	Reading		
	_____	_____		
Caliper (in)				

After Survey Caliper Verification			Performed:	
	Reference	Reading		
	_____	_____		
Caliper (in)				

Compensated Neutron Calibration Report				
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Serial Number:		080621PMC		
Tool Model:		NABORS		

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

POST-SURVEY VERIFICATION				
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Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	7		
Tool Model:	Probe1		
Performed:	Wed Dec 05 01:26:33 2018		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.4300	GAPI/cps	