



COMPENSATED DENSITY/NEUTRON LOG

Company CHARTER ENERGY, INC.

Well HIPP #1

Field TRAPP

County BARTON State KANSAS

Location: API #: 15-009-26312-0000

1272' FNL & 1256' FWL

SEC 27 TWP 16S RGE 13W

Permanent Datum GROUND LEVEL Elevation 1959
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL

Elevation

K.B. 1969
D.F. 1967
G.L. 1959

Date 8/20/21

Run Number ONE

Depth Driller 3432

Depth Logger 3434

Bottom Logged Interval 3410

Top Log Interval 2700

Casing Driller 8 5/8" @ 449

Casing Logger 449

Bit Size 7 7/8

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.0/60

pH / Fluid Loss 11.0/5.4

Source of Sample FLOWLINE

Rm @ Meas. Temp .65 @ 80F

Rmf @ Meas. Temp .48 @ 80F

Rmc @ Meas. Temp .78 @ 80F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .46 @ 111F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 111F

Maximum Recorded Temperature 111F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By JASON CAPPELLUCCI

Witnessed By BOB O'DELL

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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

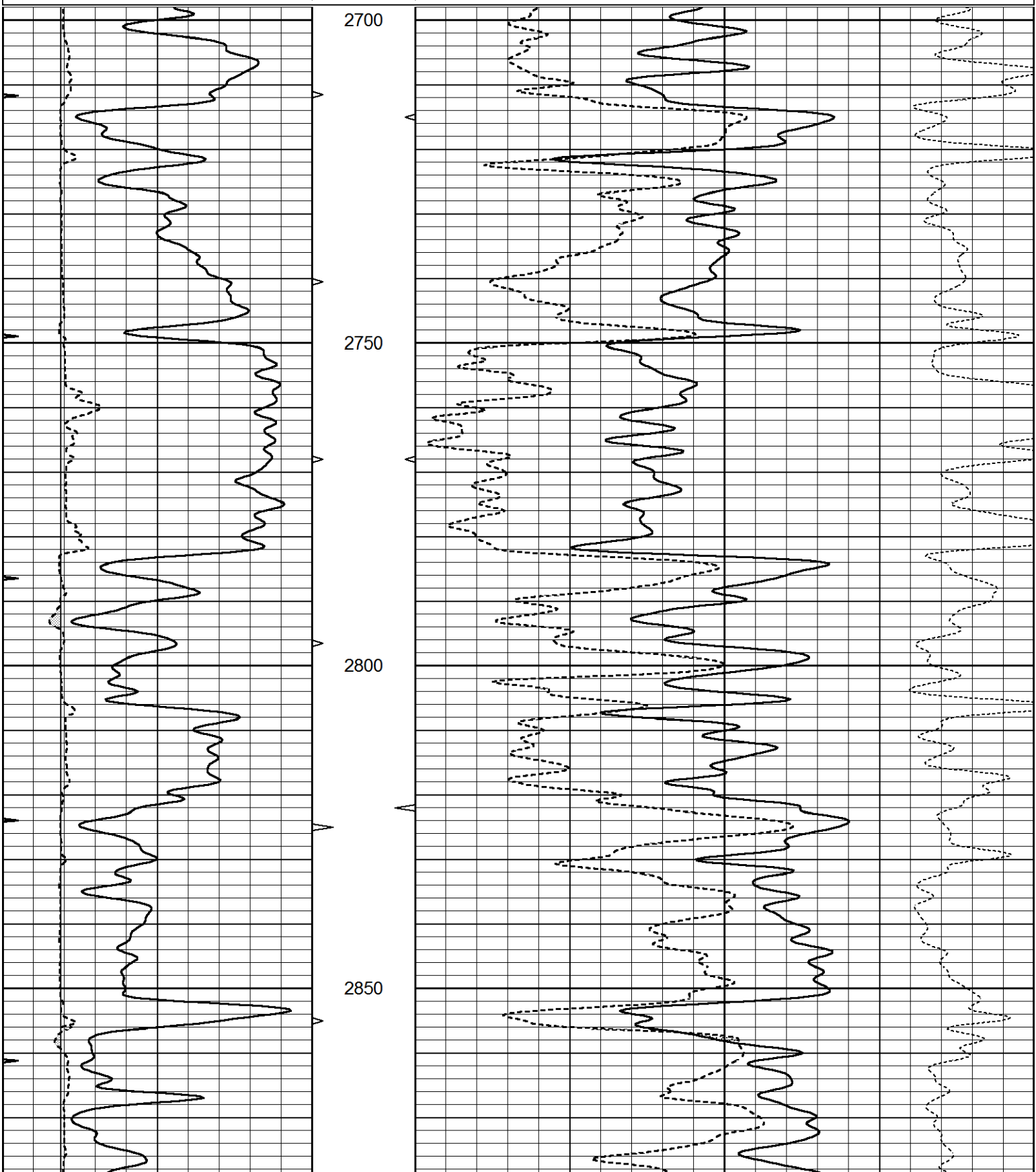
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
SUSANK, KS. - 1 1/8 EAST - SOUTH INTO

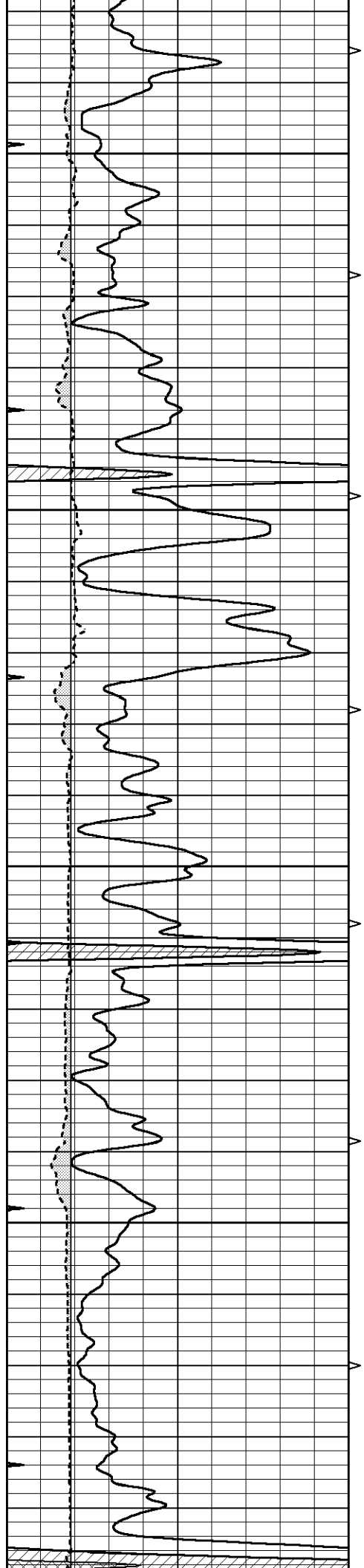


MAIN SECTION

Database File	5643ddn.db
Dataset Pathname	pass3.1
Presentation Format	_den_neu
Dataset Creation	Fri Aug 20 07:05:05 2021
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	
6	CALIPER (in)	16	0 (ft3)	10					



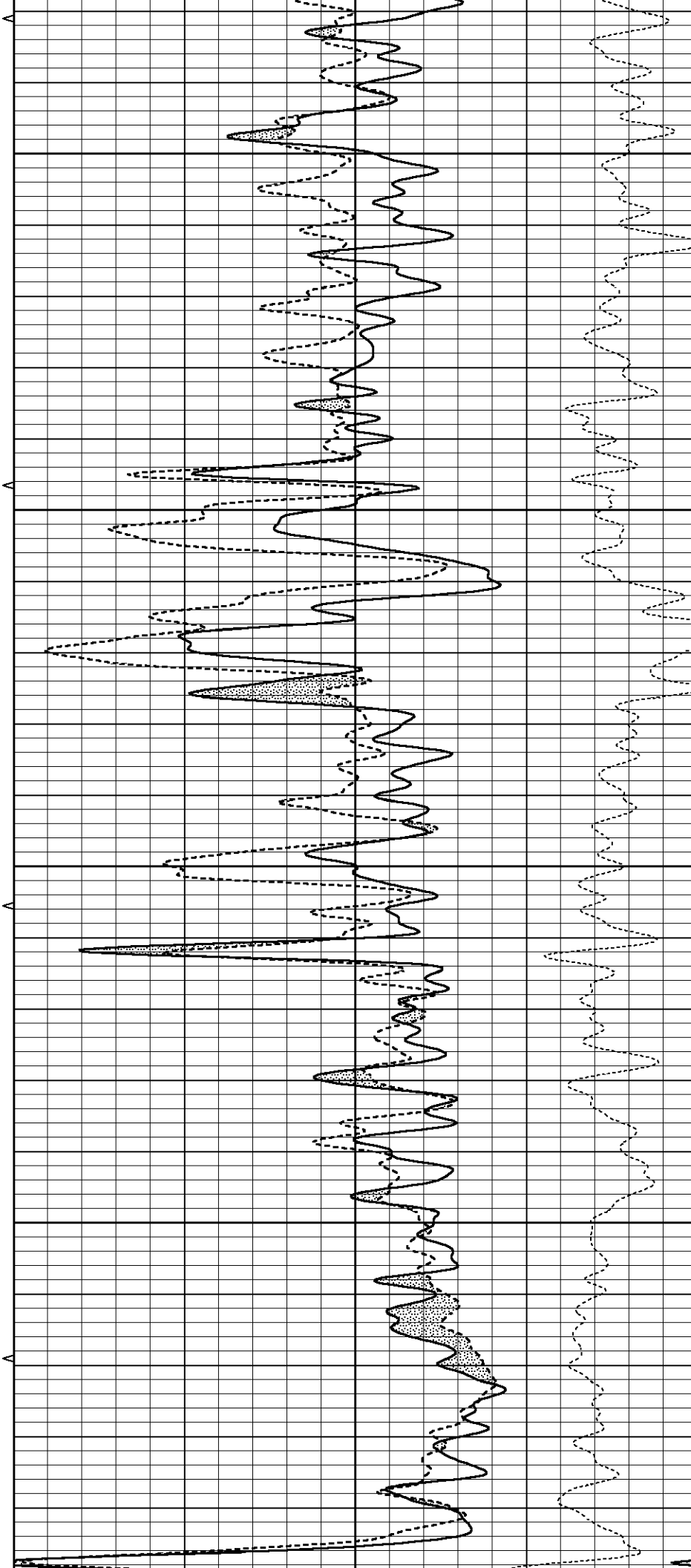


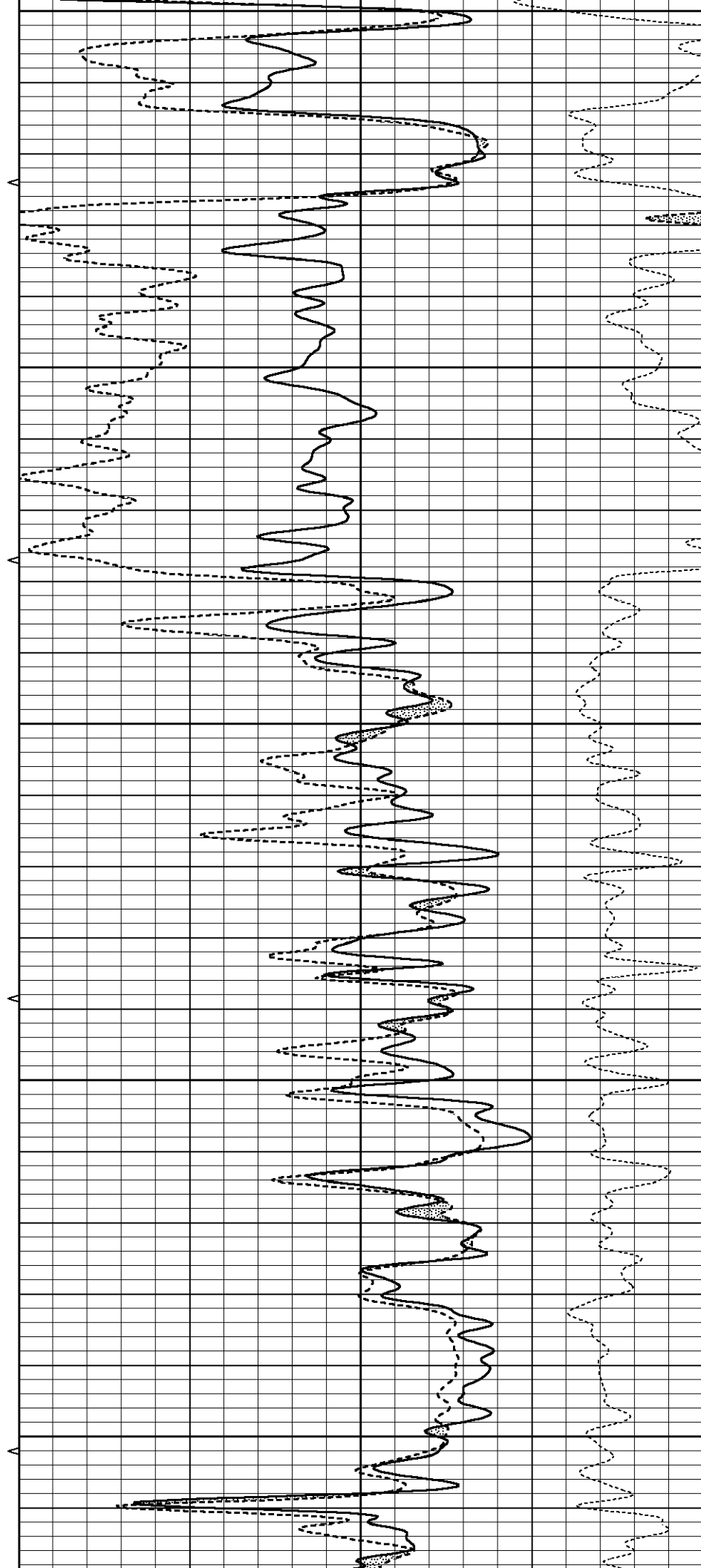
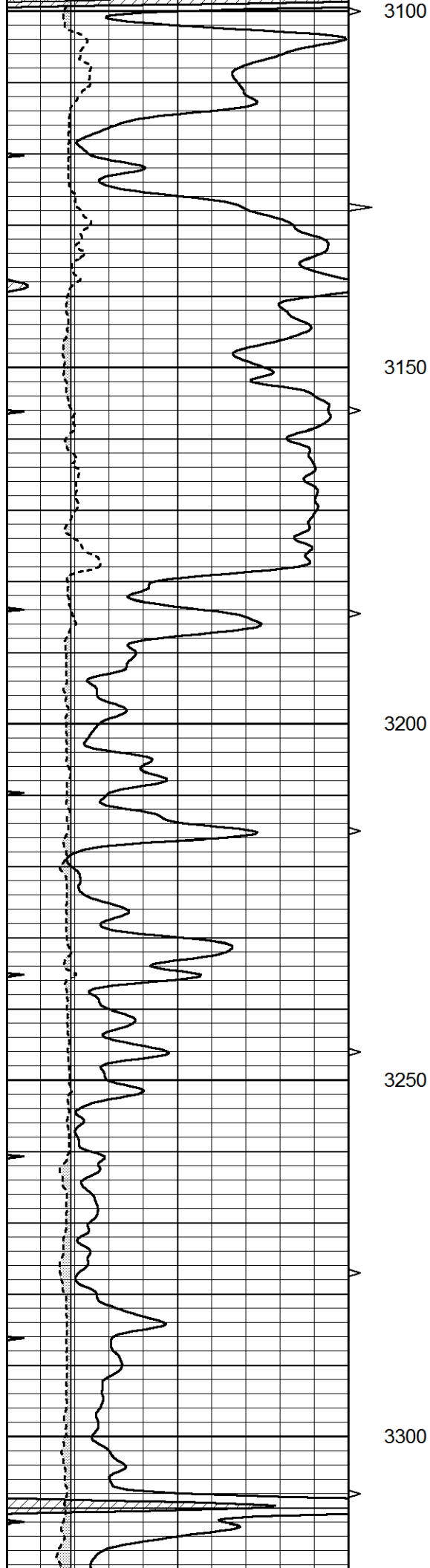
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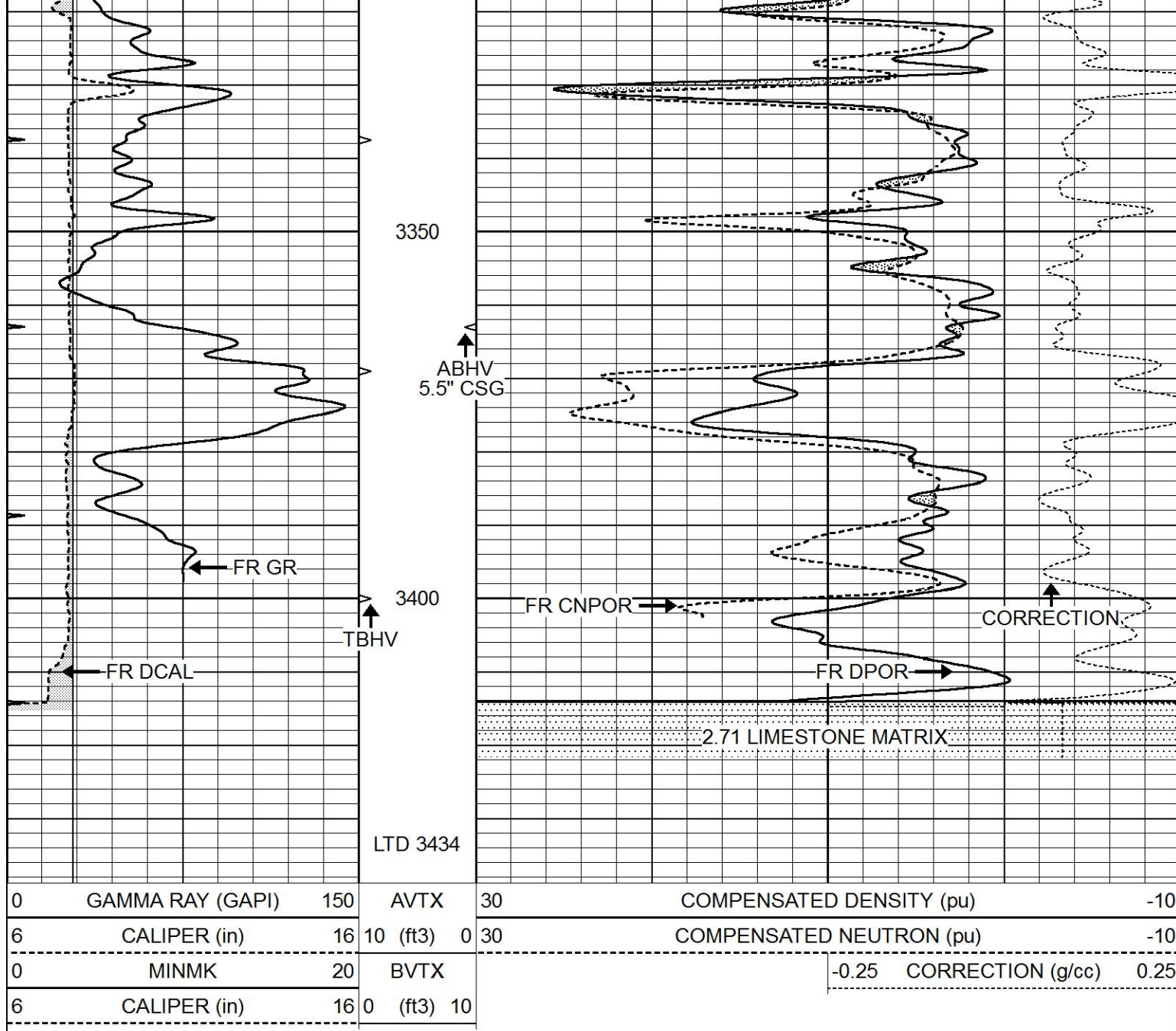
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3050



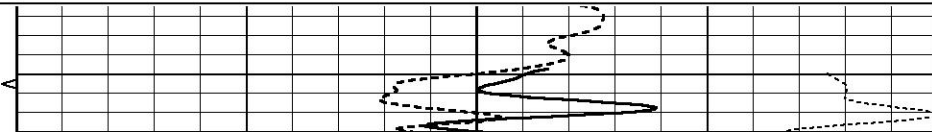
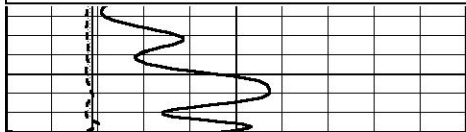


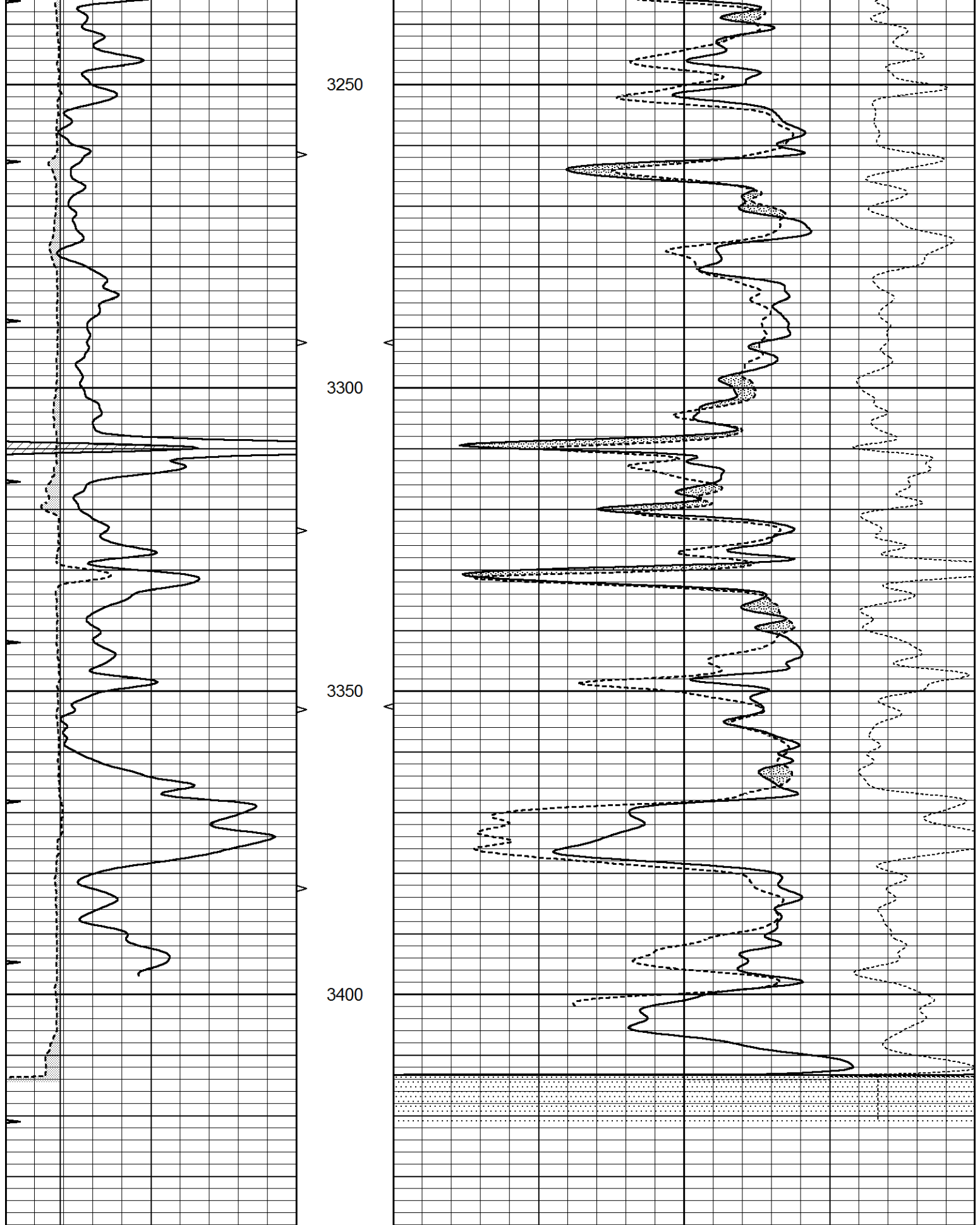


REPEAT SECTION

Database File 5643ddn.db
 Dataset Pathname pass2.2
 Presentation Format _den_neu
 Dataset Creation Fri Aug 20 07:08:19 2021
 Charted by Depth in Feet scaled 1:240

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





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

Calibration Report

Database File 5643ddn.db
Dataset Pathname pass2.1
Dataset Creation Fri Aug 20 07:06:54 2021

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
Surface Cal Performed: Tue Feb 19 11:44:18 2019
Downhole Cal Performed: Tue Feb 19 11:44:24 2019
After Survey Verification Performed: Tue Feb 19 11:44:27 2019

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: 140703
Model: V4_10P
Source Number: 74GBq-19

Master Calibration

Performed: Wed Dec 02 12:04:44 2020

	Background	Aluminum	Magnesium	
Window 1	595.38	5386.50	23898.92	cps
Window 2	52.78	1248.21	5993.75	cps
Window 4	251.36	1200.30	5155.55	cps
Window 5	545.15	9066.30	17240.12	cps
Window 6	43.35	1491.73	2929.24	cps
Window 8	258.76	2917.82	5450.26	cps
Bulk Density	-	2.6020	1.6830	g/cc
Bo		3.0000	2.5070	b/c

LS Alpha: : -1.8726		SS Alpha: : -0.7656		LS CPE: : 1.0742	
LS Beta: : 127345.0723		SS Beta: : 20293.3834		SS CPE: : 1.5427	
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: Wed Dec 02 12:04:44 2020	
Results	Readings	References (in)			
Low	High	Low	High	Gain	Offset
8005.3	11087.2	8.0	14.0	0.0	-7.5
Before Survey Caliper Verification				Performed:	
	Reference	Reading			
Caliper (in)					
After Survey Caliper Verification				Performed:	
	Reference	Reading			
Caliper (in)					
Compensated Neutron Calibration Report					
		Serial Number:		080621PMC	
		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:	7	
Tool Model:	Probe1	
Performed:	Tue Jan 19 17:50:08 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5300	GAPI/cps