

COMPENSATED DENSITY/NEUTRON PE LOG

Company SHELBY RESOURCES, L.L.C.

Well VICKERS BUSTER #1-3 OWWO

Field ZOOK

County PAWNEE State KANSAS

Location: API # : 15-145-00061-0001

2310' FSL & 330' FWL

SEC 3 TWP 22S RGE 16W

Permanent Datum GROUND LEVEL Elevation 1990
Log Measured From KELLY BUSHING 8' A.G.L
Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL
SON
Elevation
K.B. 1998
D.F. 1996
G.L. 1990

Date 10/16/20

Run Number ONE

Depth Driller 3963

Depth Logger 3956

Bottom Logged Interval 3932

Top Log Interval 3000

Casing Driller 8 5/8" @ 986'

Casing Logger 986'

Bit Size 7 7/8

Type Fluid in Hole CHEMICAL MUD CHLORIDES 9700 PPM

Density / Viscosity 8.7/53

pH / Fluid Loss 10.5/10.0

Source of Sample FLOWLINE

Rm @ Meas. Temp .40 @ 65F

Rmf @ Meas. Temp .30 @ 65F

Rmc @ Meas. Temp .48 @ 65F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .22 @ 115F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 111F

Maximum Recorded Temperature 115F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By JASON CAPPELLUCCI

Witnessed By JEREMY SCHWARTZ

CHRIS GOTTSCHALK

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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.

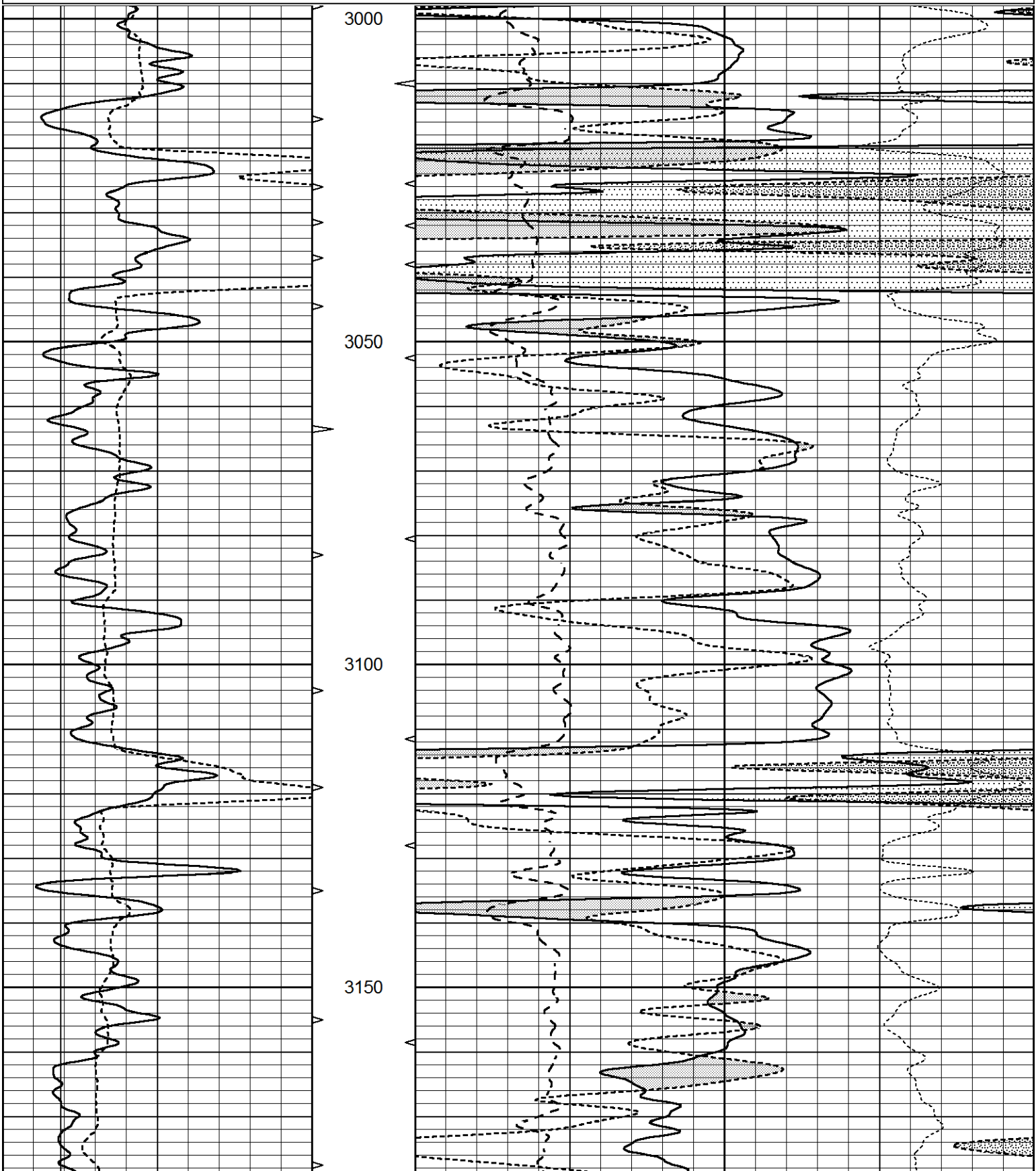
Comments

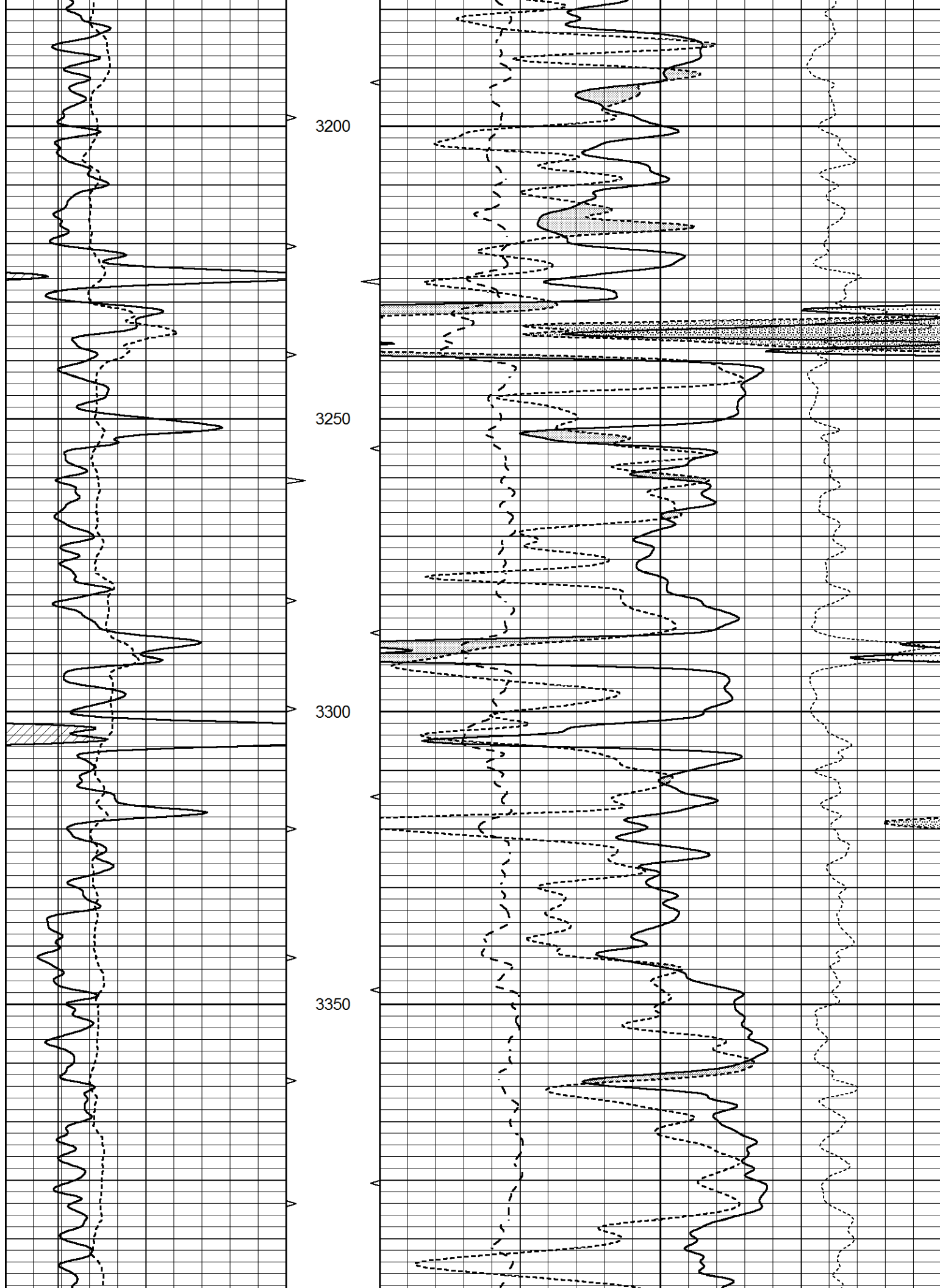
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
LARNED, KS. - SOUTH TO K 19 - 2 EAST JUST PAST LAKE - NORTH & WEST INTO

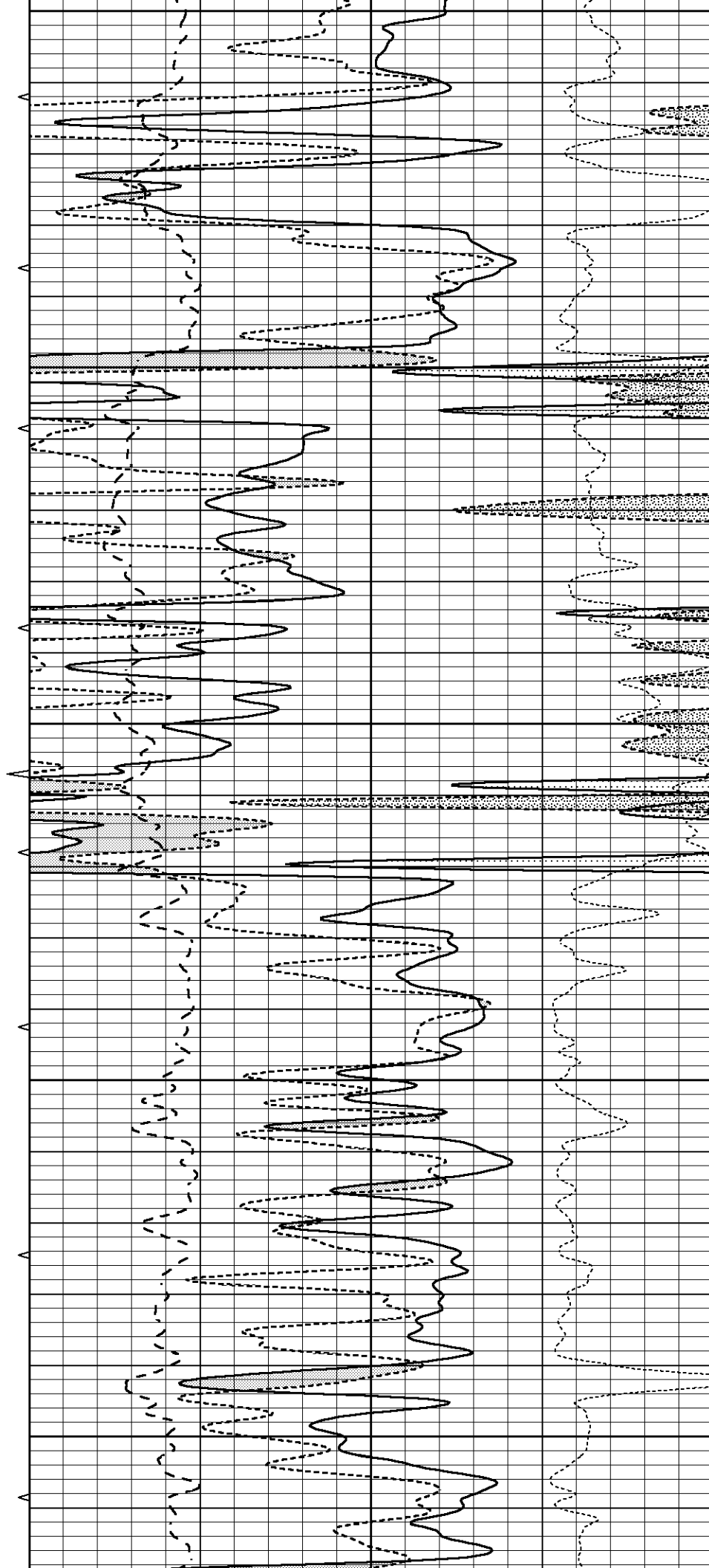
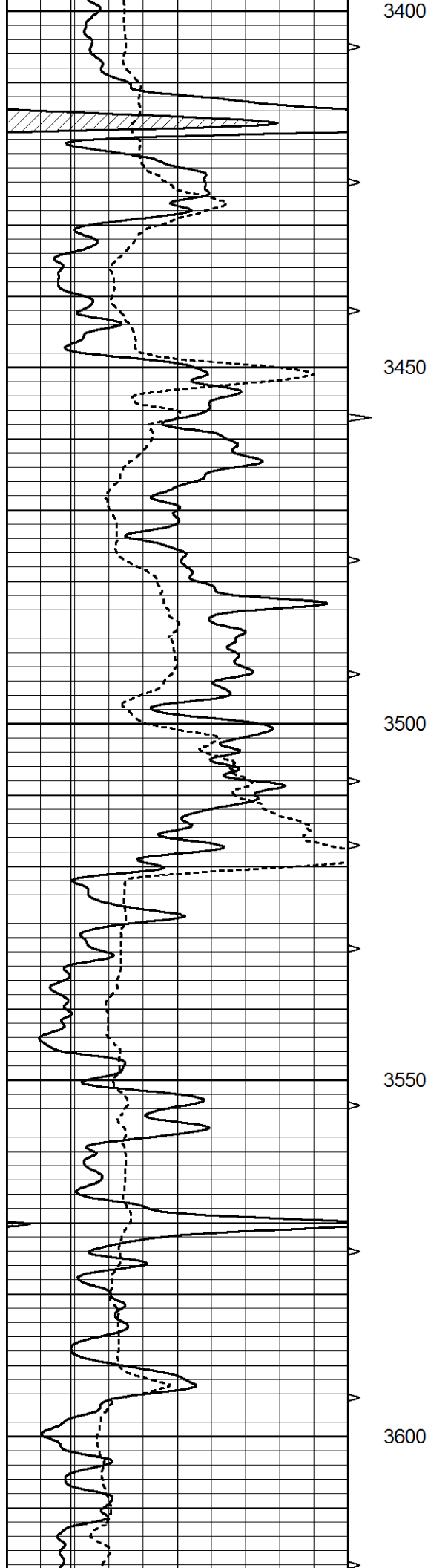


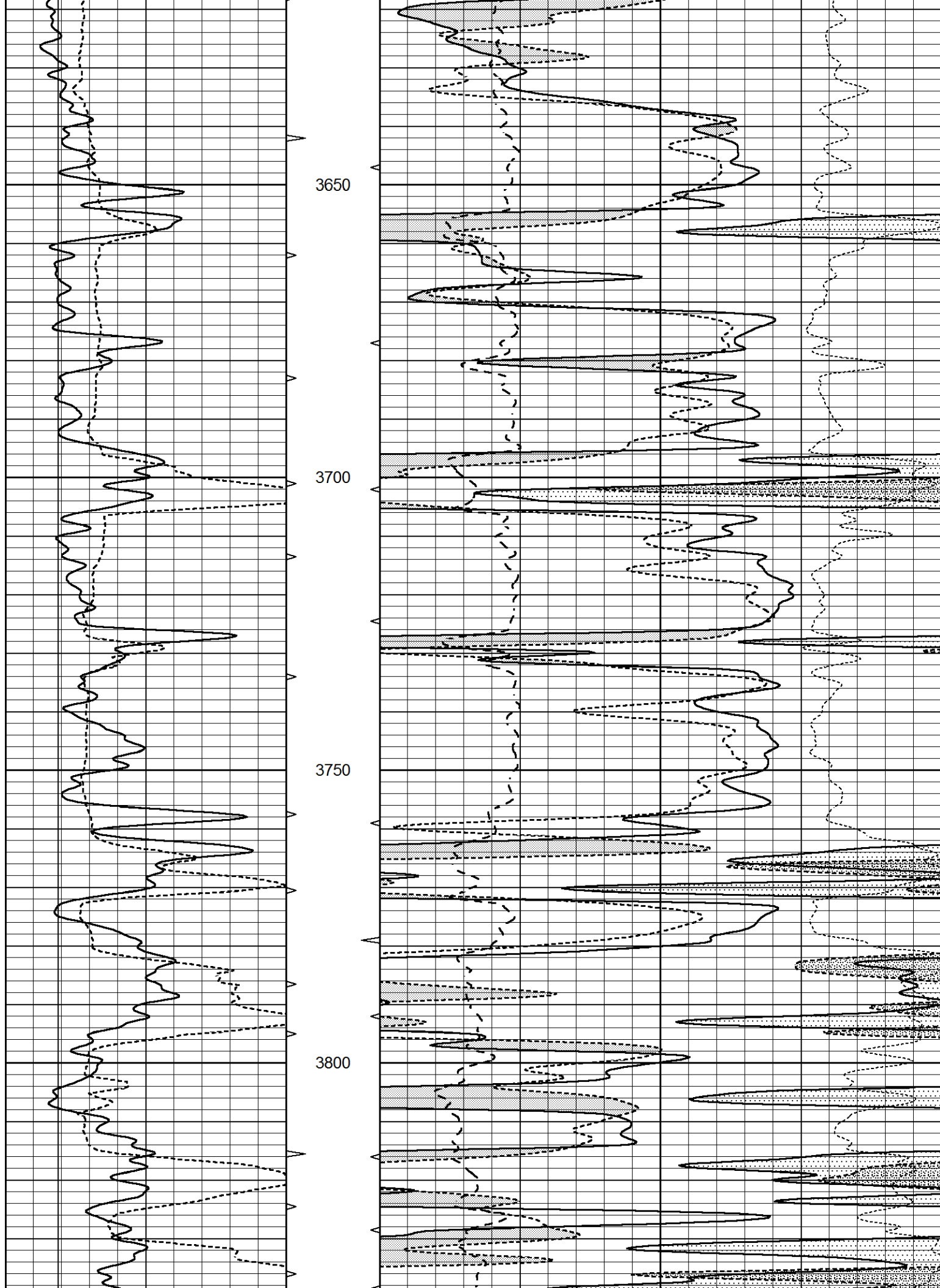
MAIN SECTION

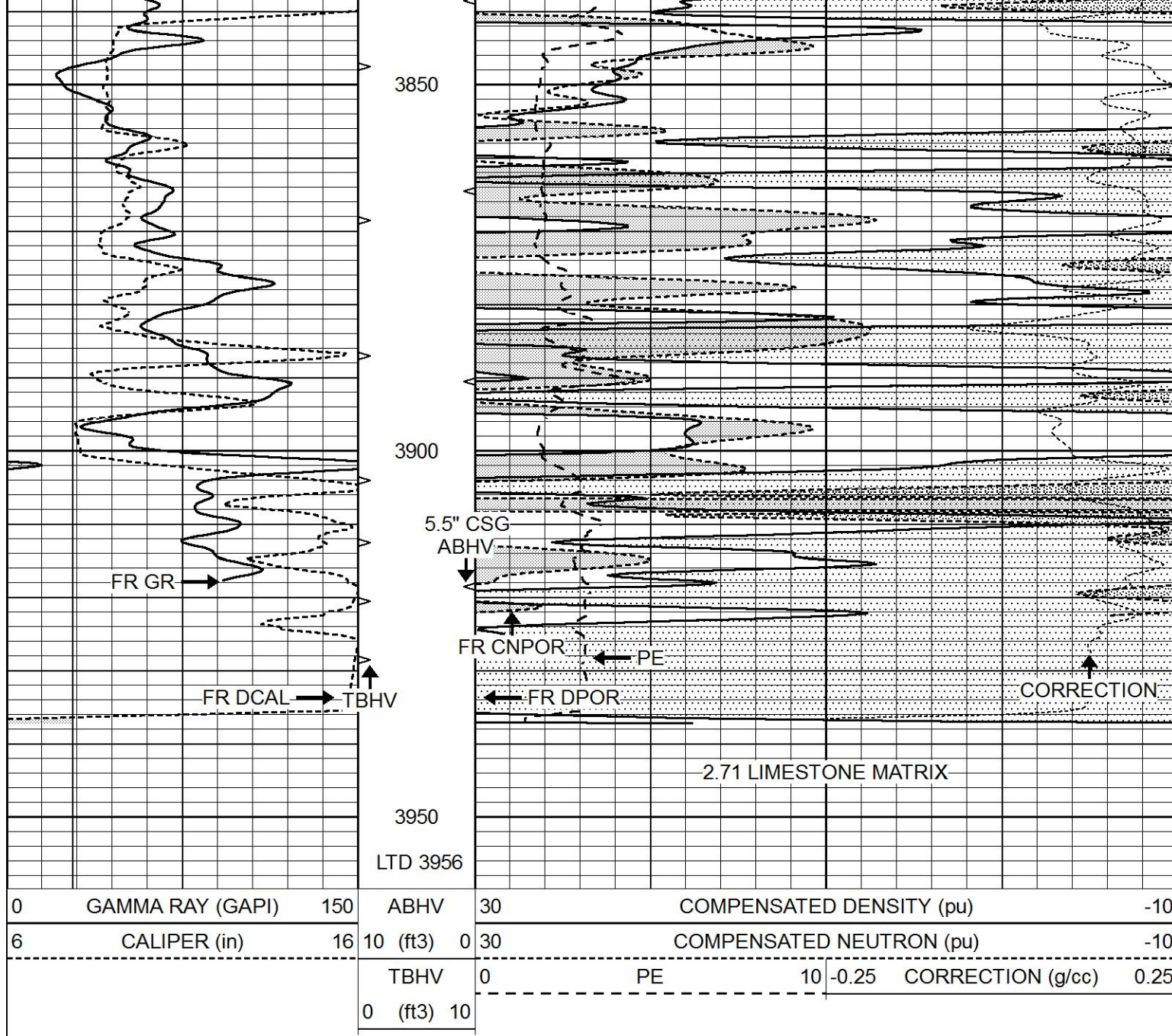
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
			TBHV	0	PE	10 -0.25
			0 (ft3)	10	CORRECTION (g/cc)	0.25







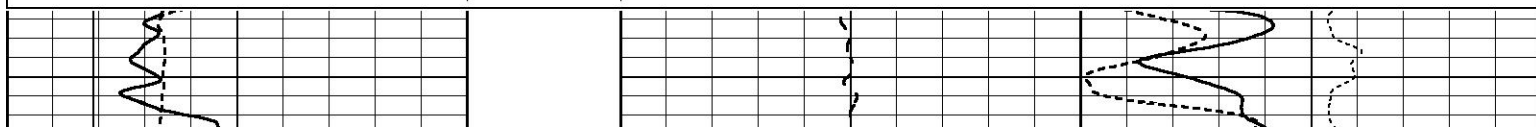


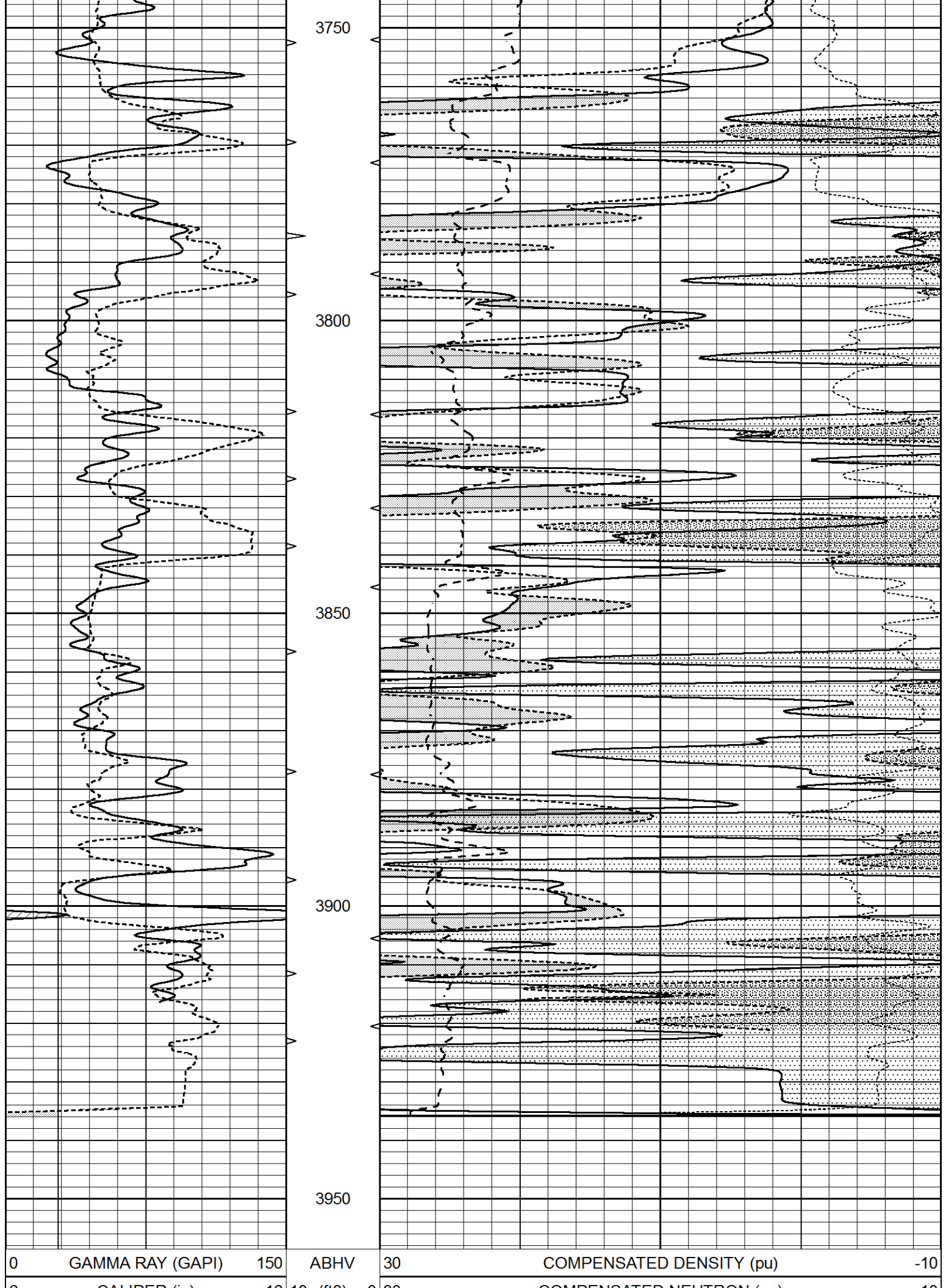


REPEAT SECTION

Database File 5231ddn.db
 Dataset Pathname pass6.1
 Presentation Format _ldt_neu
 Dataset Creation Fri Oct 16 19:41:48 2020
 Charted by Depth in Feet scaled 1:240

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





CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10
		TBHV	0	PE	10	-0.25
		0 (ft3) 10				CORRECTION (g/cc) 0.25

Calibration Report	
Database File	5231ddn.db
Dataset Pathname	pass7.1
Dataset Creation	Fri Oct 16 19:42:40 2020

Dual Induction Calibration Report

Serial-Model:	FW1410-56-Probe
Surface Cal Performed:	Mon Jun 15 22:52:02 2020
Downhole Cal Performed:	Tue Jul 25 12:15:37 2017
After Survey Verification Performed:	Tue Jul 25 12:15:38 2017

Surface Calibration		Readings		References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	400.061	-3.201
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	425.187	32.510
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.005	0.624	V	0.000	400.000	mmho/m	645.611	-3.034
Medium	0.012	0.721	V	0.000	464.000	mmho/m	653.591	-7.532

Downhole Calibration		Readings		References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m	1.117	-0.058
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m	1.080	-2.280
LL3		7.471	V		2500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.085	V		5000.000	mmho-m		

After Survey Verification		Readings		Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	38.256	411.013	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		

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			
Detector	Readings	Measured	Target

Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	7		
Tool Model:	Probe1		
Performed:	Tue Dec 10 10:02:55 2019		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.4800	GAPI/cps	