



COMPENSATED DENSITY/NEUTRON LOG

Company	RL INVESTMENT, LLC.
Well	PRATT "A" #1-35
Field	HOXIE WEST
County	SHERIDAN
State	KANSAS
Location:	API # : 15-179-21442-0000 2310' FNL & 330' FWL SW - SW - NW
Permanent Datum	SEC 35 TWP 8S RGE 29W
Log Measured From	GROUND LEVEL Elevation 2817
Drilling Measured From	KELLY BUSHING 7' A.G.L KELLY BUSHING
Other Services DIL/MEL	Elevation K.B. 2824 D.F. 2822 G.L. 2817
Date	2/24/18
Run Number	ONE
Depth Driller	4460
Depth Logger	4461
Bottom Logged Interval	4437
Top Log Interval	3400
Casing Driller	8 5/8" @ 262
Casing Logger	262
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.4/60
PH / Fluid Loss	10.5/7.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.10 @ 60F
Rmf @ Meas. Temp	0.82 @ 60F
Rmc @ Meas. Temp	1.32 @ 60F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	0.55 @ 120F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	120F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	RICHARD BELL

<<< 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

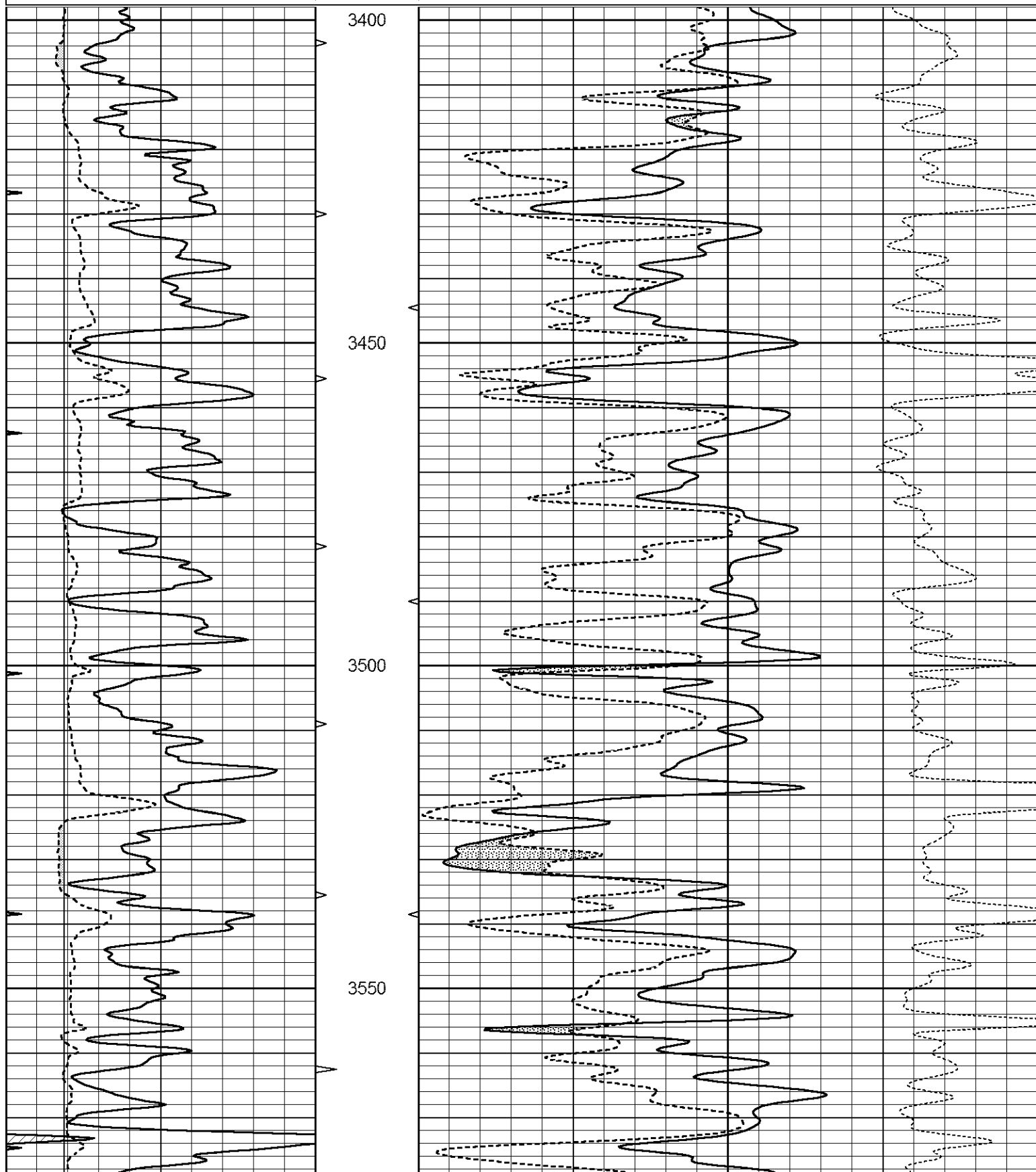
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
HOXIE, KS. - 2 SOUTH TO RD 30S - 5 WEST TO RD. 50 - 1/2 SOUTH - EAST INTO

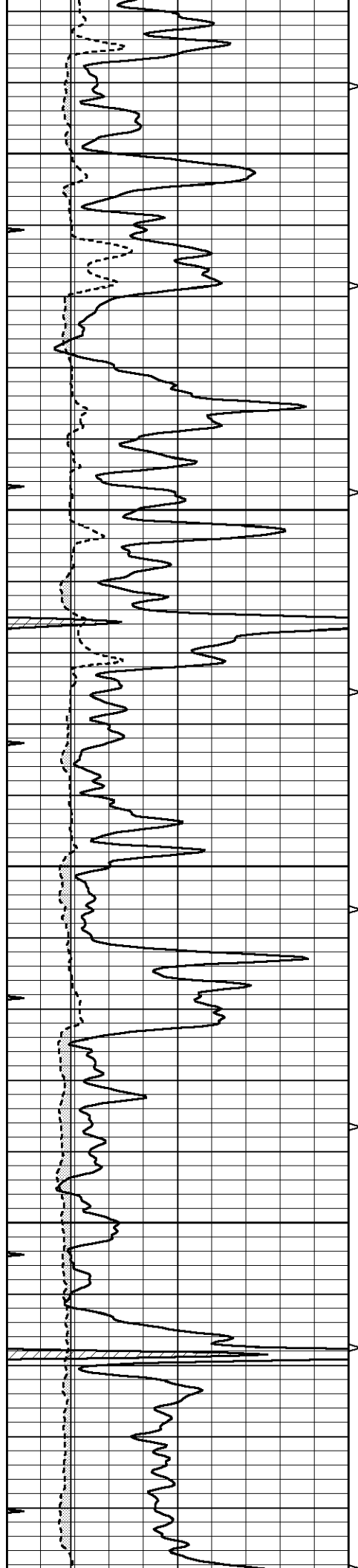


MAIN SECTION

Database File	2365ddn8.db
Dataset Pathname	pass6.1
Presentation Format	_den_neu
Dataset Creation	Sat Feb 24 18:55:33 2018
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			



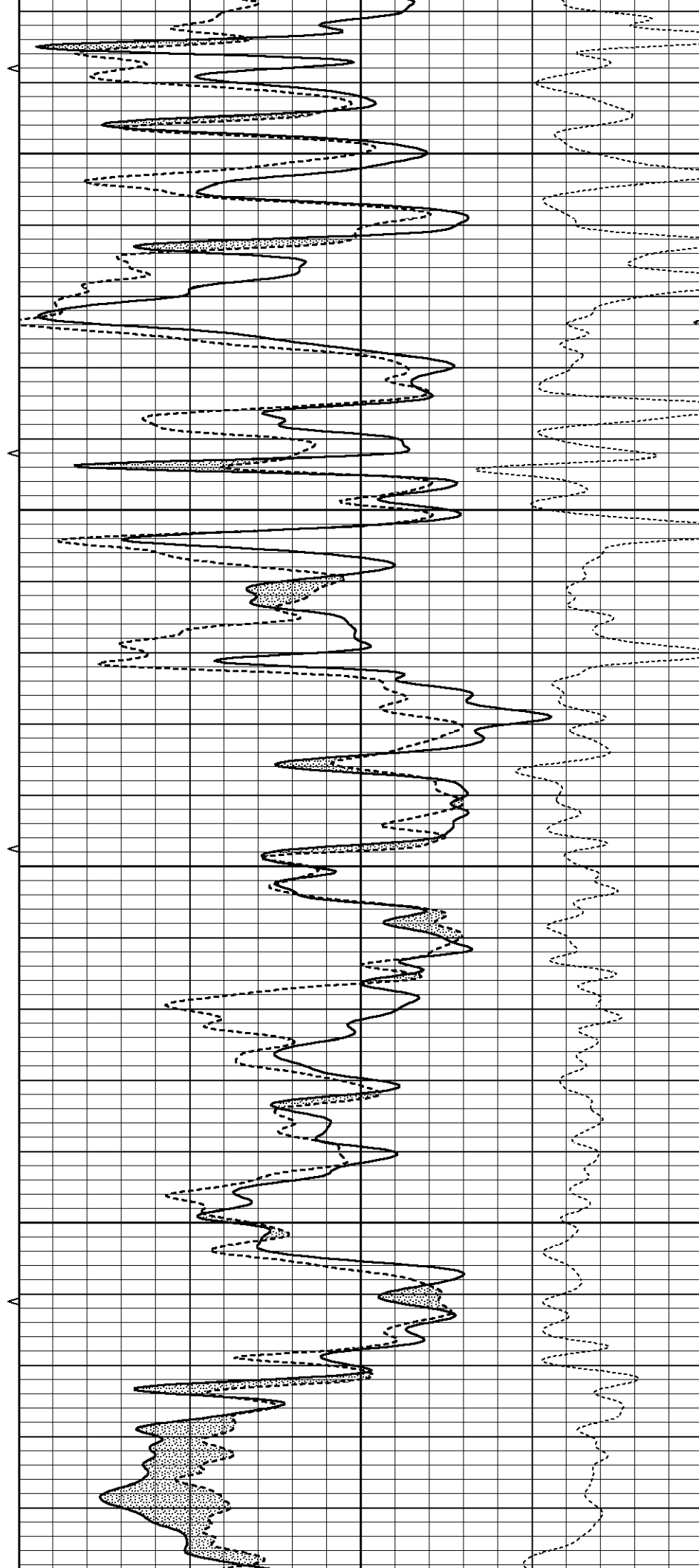


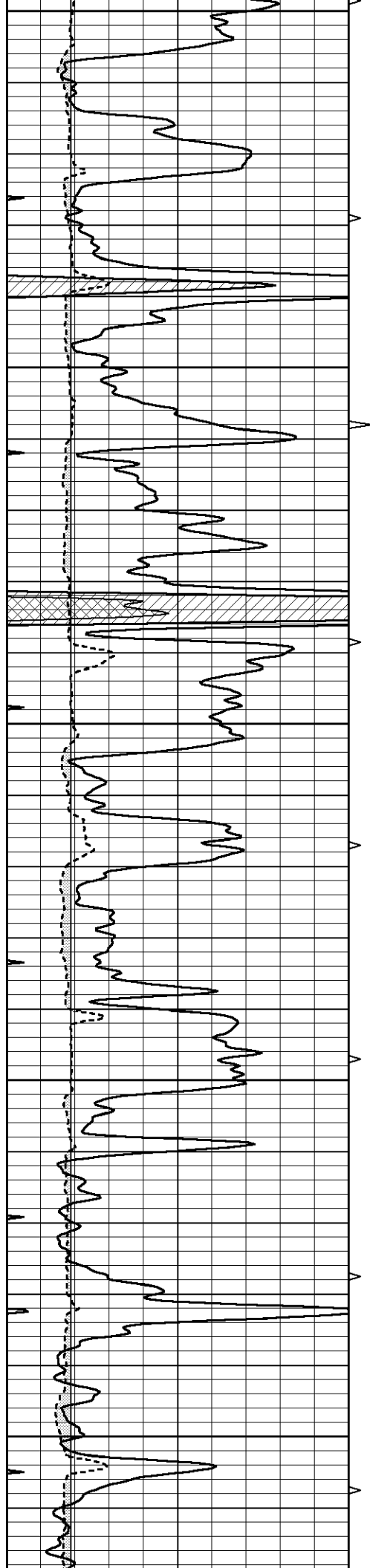
3600

3650

3700

3750





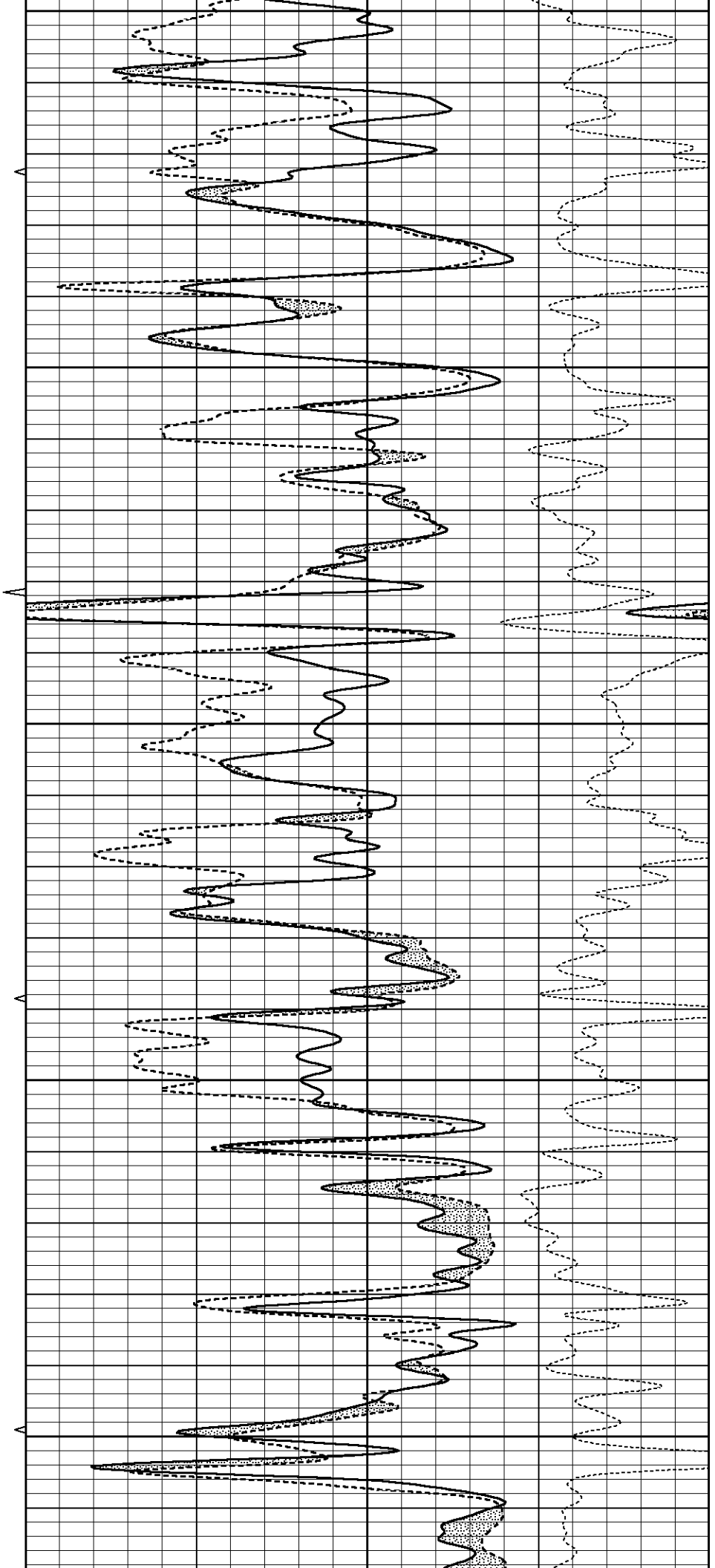
3800

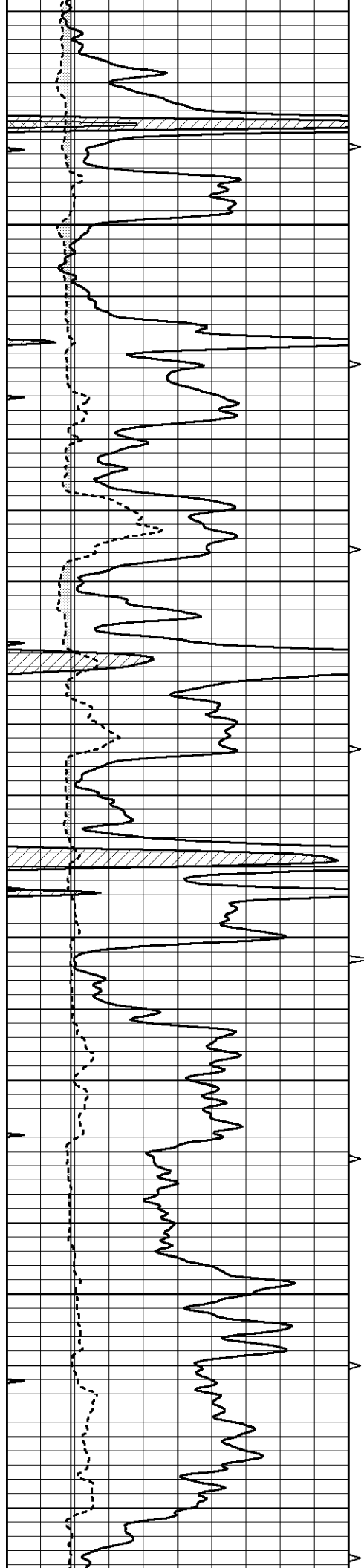
3850

3900

3950

4000



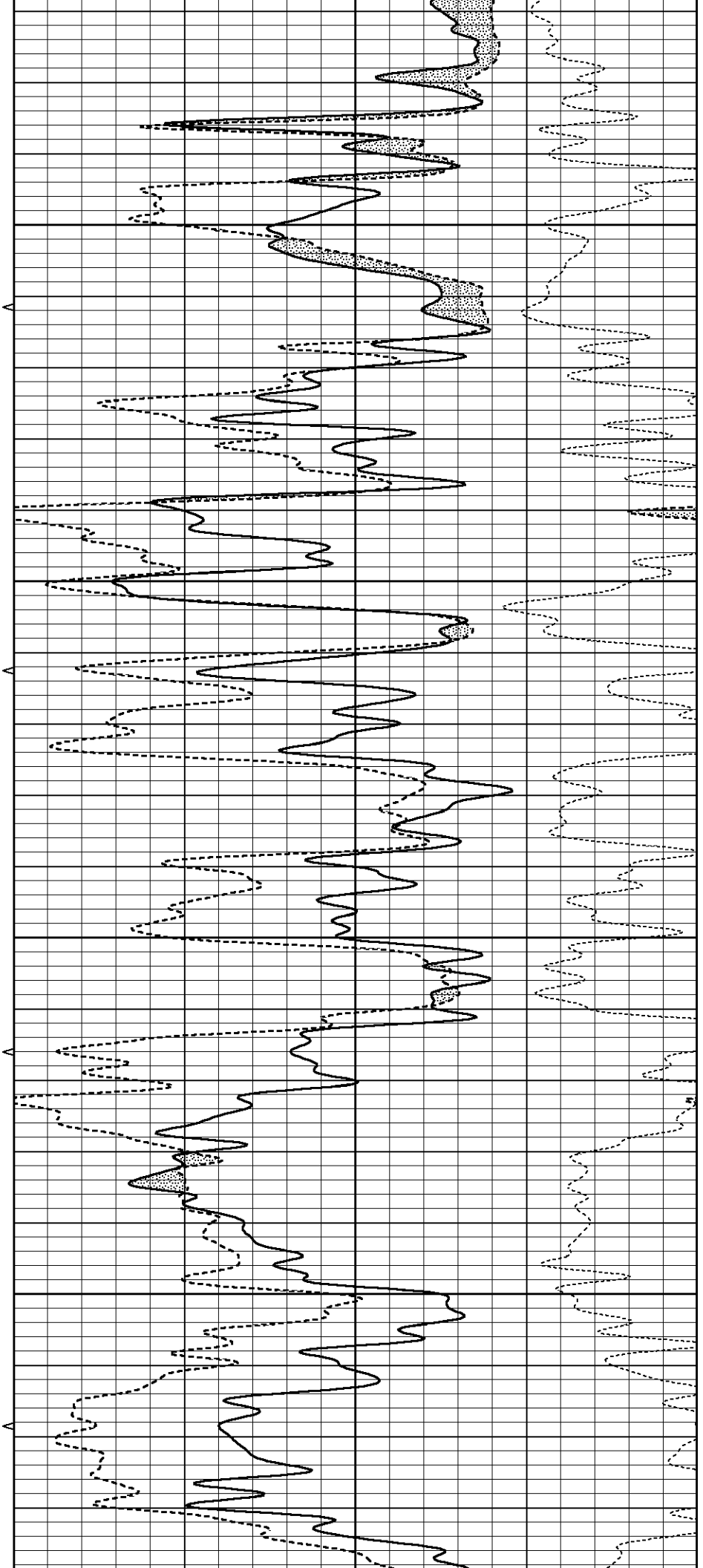


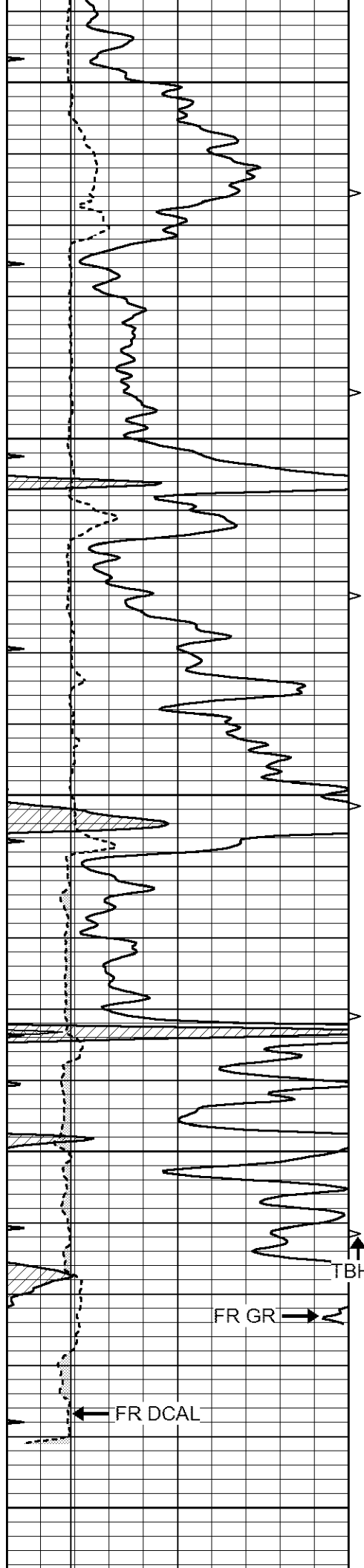
4050

4100

4150

4200





4250

4300

4350

4400

4450

ABHV
5.5" CSG

TBHV

FR GR

FR DCAL

FR CNPOR

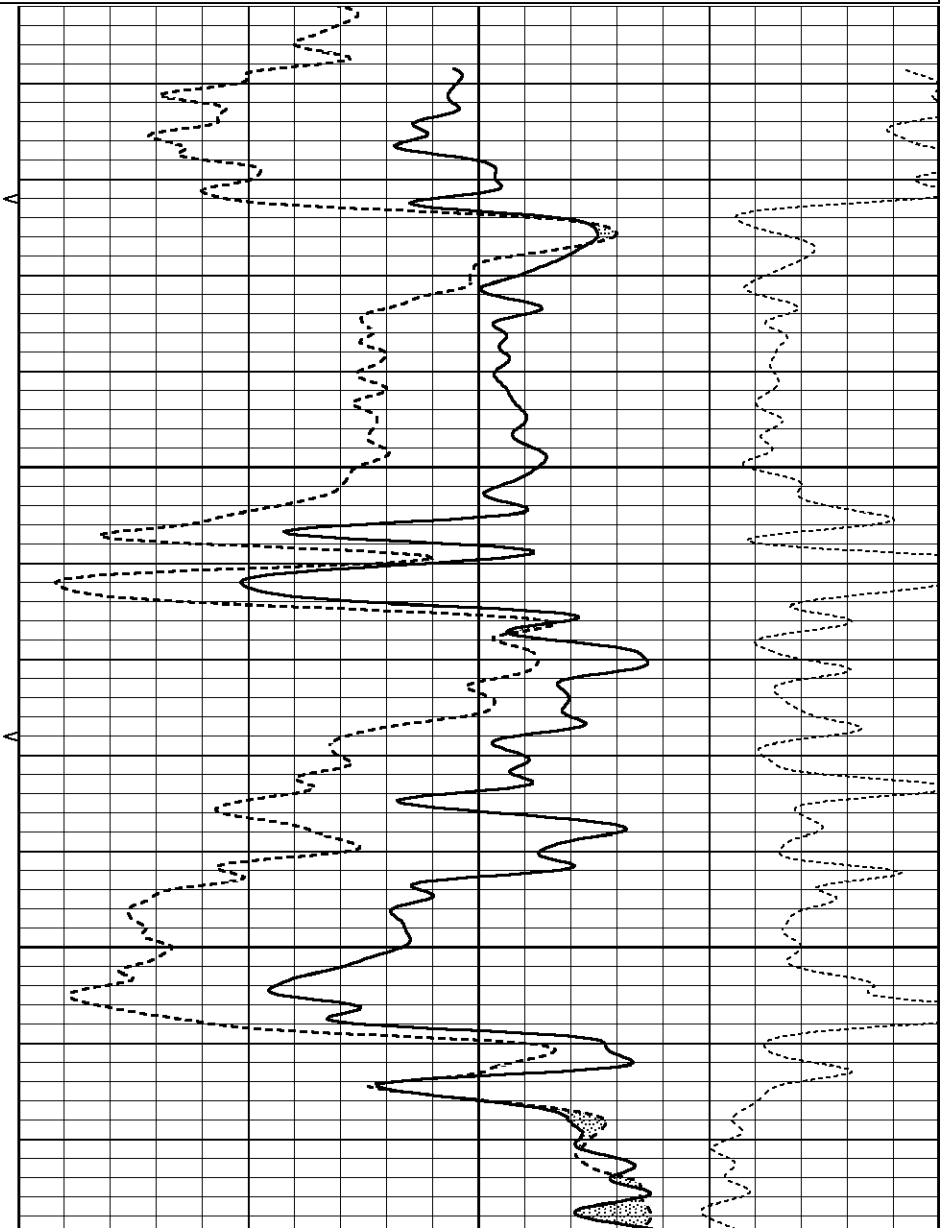
FR DPOR

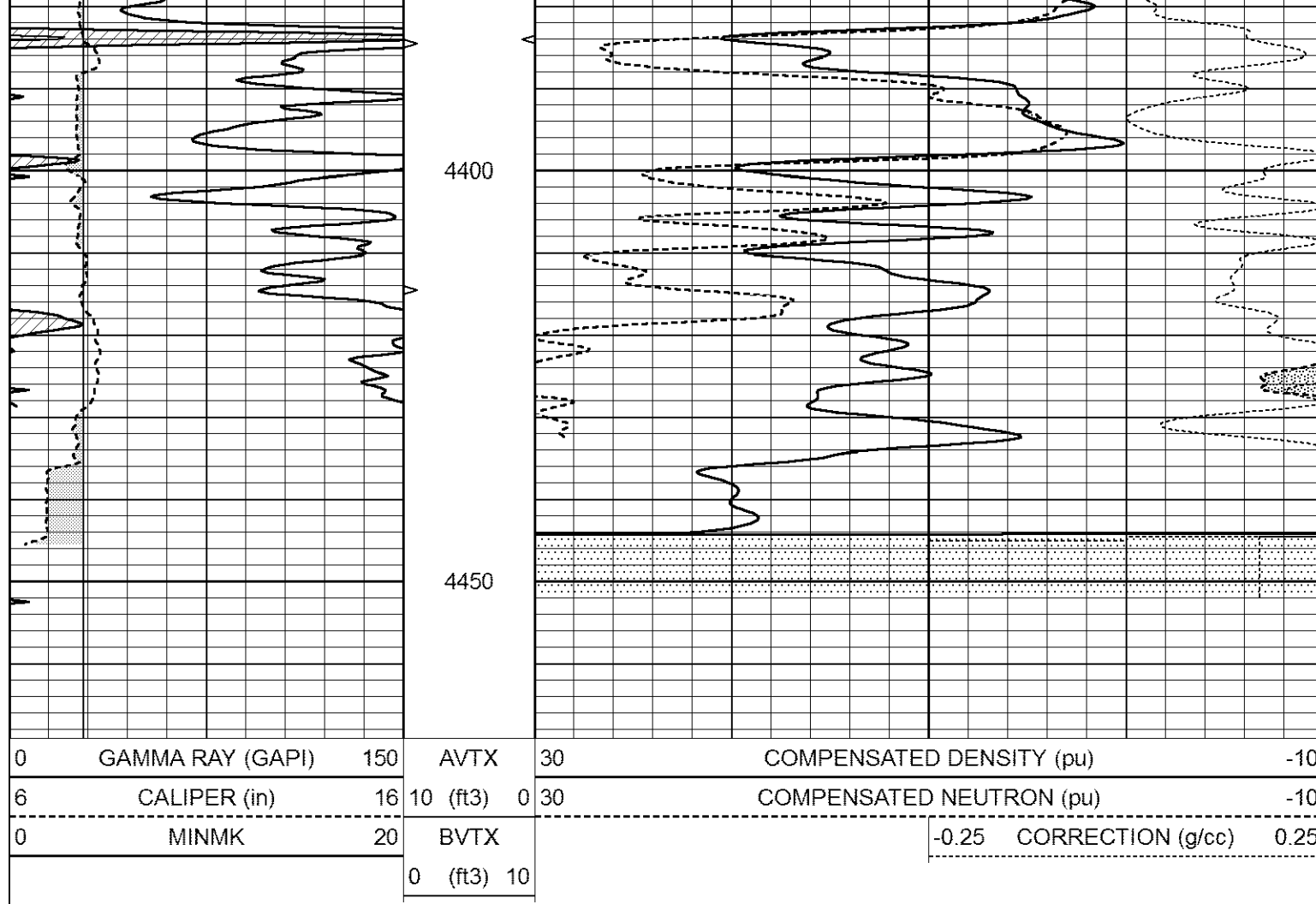
CORRECTION

2.71 LIMESTONE MATRIX

Database File	2365ddn8.db
Dataset Pathname	pass3.1
Presentation Format	_den_neu
Dataset Creation	Sat Feb 24 18:45:47 2018
Charted by	Depth in Feet scaled 1:240

4350





Calibration Report								
Database File	2365ddn8.db							
Dataset Pathname	pass3.1							
Dataset Creation	Sat Feb 24 18:45:47 2018							
Dual Induction Calibration Report								
Serial-Model:			FW1410-56-Probe					
Surface Cal Performed:			Tue Jul 25 12:15:33 2017					
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	527.061	-3.201
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	567.187	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
Litho Density Calibration Report					
Serial: 140704					
Model: V4_10P					
Source Number: 74GBq-19					
Master Calibration			Performed: Wed Feb 11 18:53:41 2015		
	Background	Aluminum	Magnesium		
Window 1	613.01	6027.40	27508.60	cps	
Window 2	48.21	1424.77	7132.66	cps	
Window 4	266.48	1373.19	5767.15	cps	
Window 5	622.07	10090.30	18937.90	cps	
Window 6	49.07	1682.84	3271.18	cps	
Window 8	298.04	3248.38	5980.58	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8451	SS Alpha:	: -0.7542	LS CPE:	: 1.0882
LS Beta:	: 138648.8473	SS Beta:	: 21960.9250	SS CPE:	: 1.5181
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 Feb 11 18:53:41 2015		
Results	Readings	References (in)		Gain	Offset
Low	High	Low	High		
1107.5	7124.1	8.0	15.0	0.0	6.3
Before Survey Caliper Verification			Performed:		

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:	070558		
Tool Model:	Probe1		
Performed:	Tue Jul 25 12:16:33 2017		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.4000	GAPI/cps	