

COMPENSATED DENSITY/NEUTRON LOG

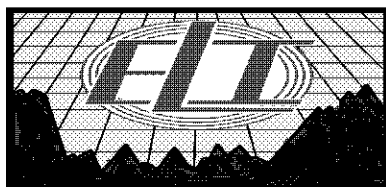
Company	DOWNING-NELSON OIL CO., INC.		
Well	VELMA B #1-14		
Field	COTTON EAST		
County	TREGO	State	KANSAS
Location:	API # : 15-195-23133-0000 1160' FSL & 1410' FEL		Other Services DIL/MEL
Permanent Datum	SEC 14 TWP 12S RGE 21W	Elevation	
Log Measured From	GROUND LEVEL	Elevation	K.B. 2318
Drilling Measured From	KELLY BUSHING 8' A.G.L. KELLY BUSHING		D.F. 2316 G.L. 2310
Date	2/12/22		
Run Number	ONE		
Depth Driller	4100		
Depth Logger	4098		
Bottom Logged Interval	4074		
Top Log Interval	3250		
Casing Driller	8 5/8" @ 223		
Casing Logger	223		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3000 PPM	
Density / Viscosity	9.3/56		
pH / Fluid Loss	10.5/8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.8@58F		
Rmf @ Meas. Temp	.6@58F		
Rmc @ Meas. Temp	.96@58F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.4@117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	117F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI	TJ DREILING	
Witnessed By	MARC DOWNING		

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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

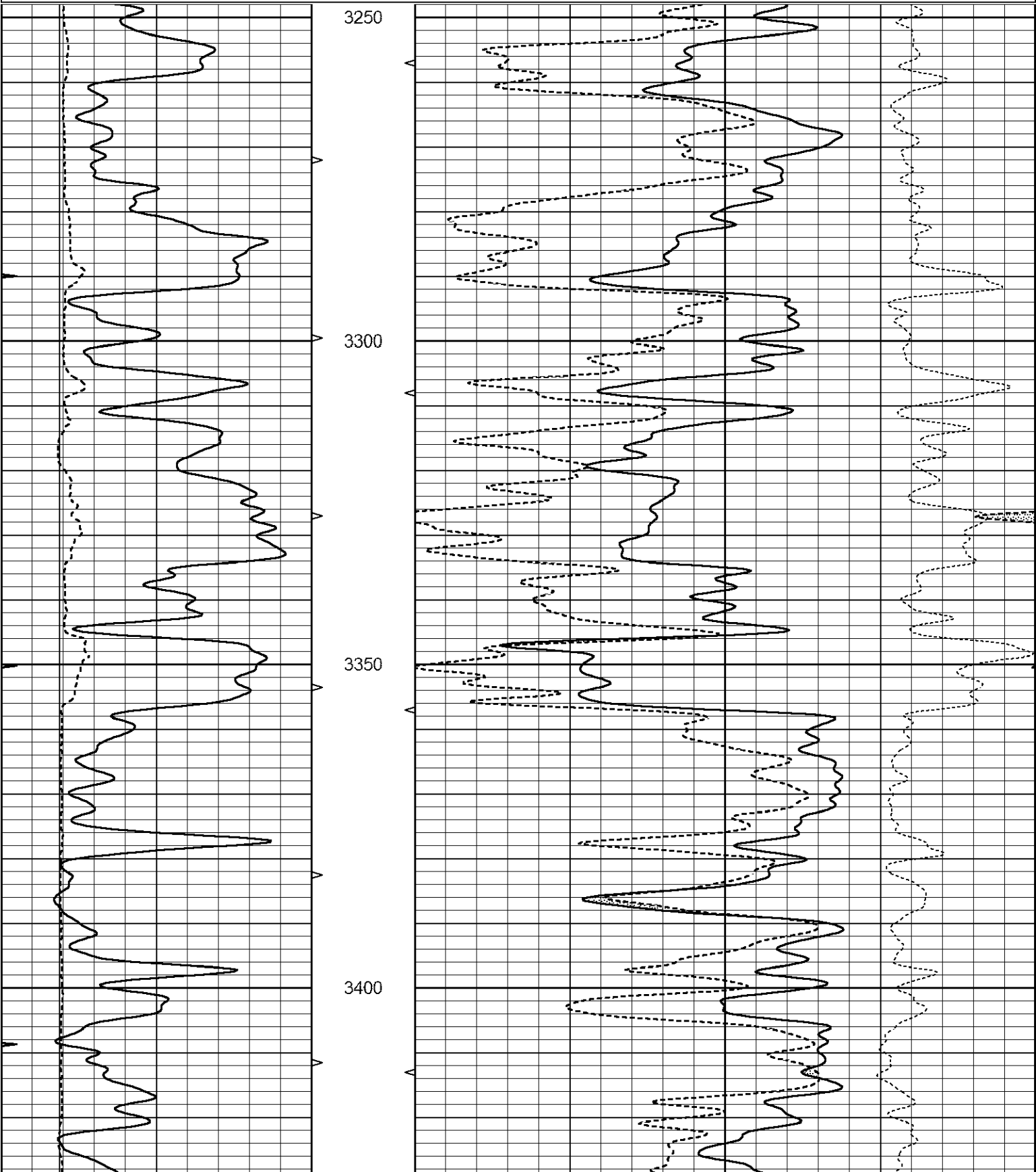
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
FROM ELLIS KANSAS, -NORTH TO LOCUS GROVE RD (FIRST CURVE),
-WEST 3 MILES TO 400 AVE, -NORTH 1 MILE TO RD "J"
WEST 1/4 MILE, -NORTH INTO

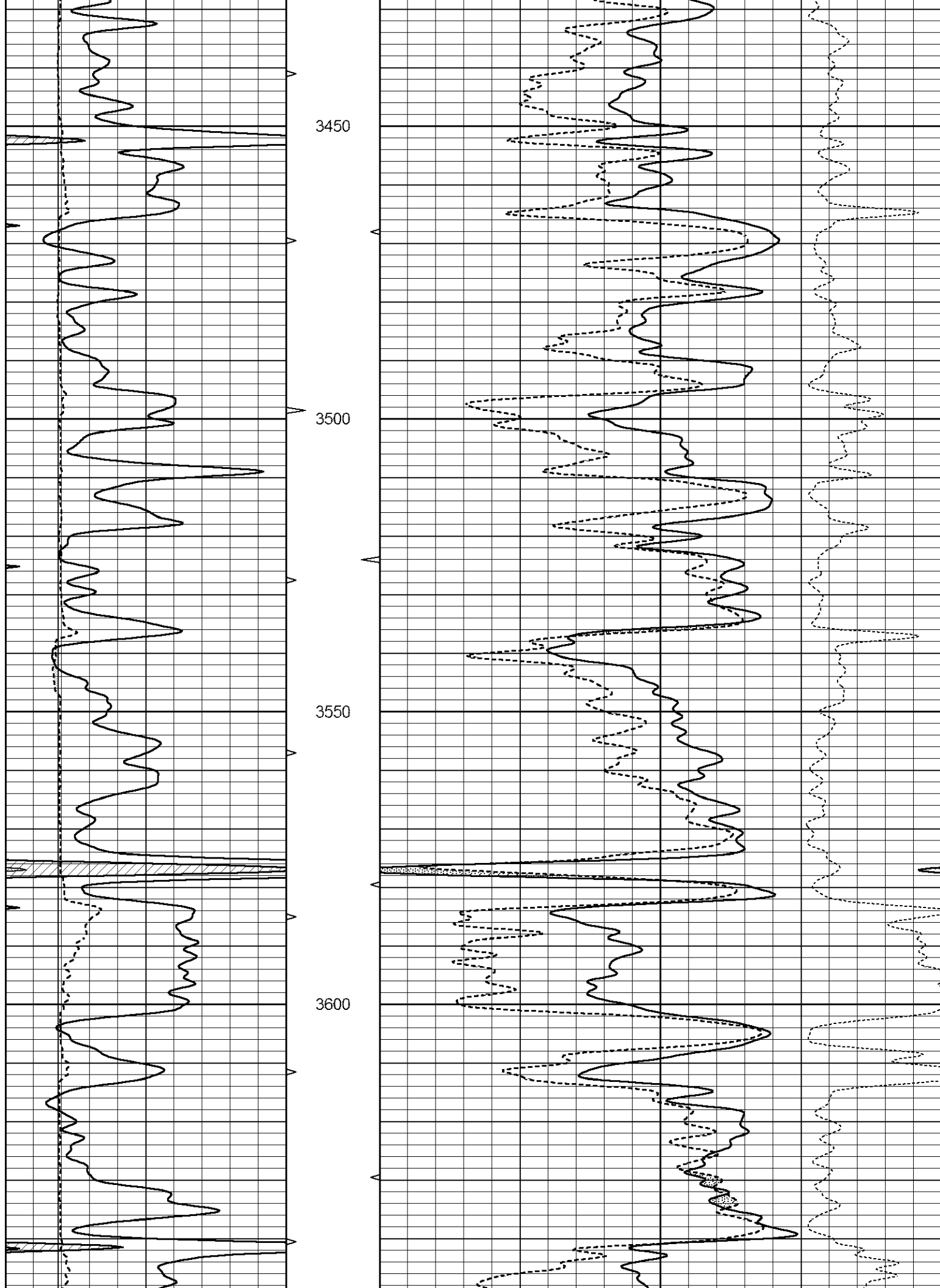


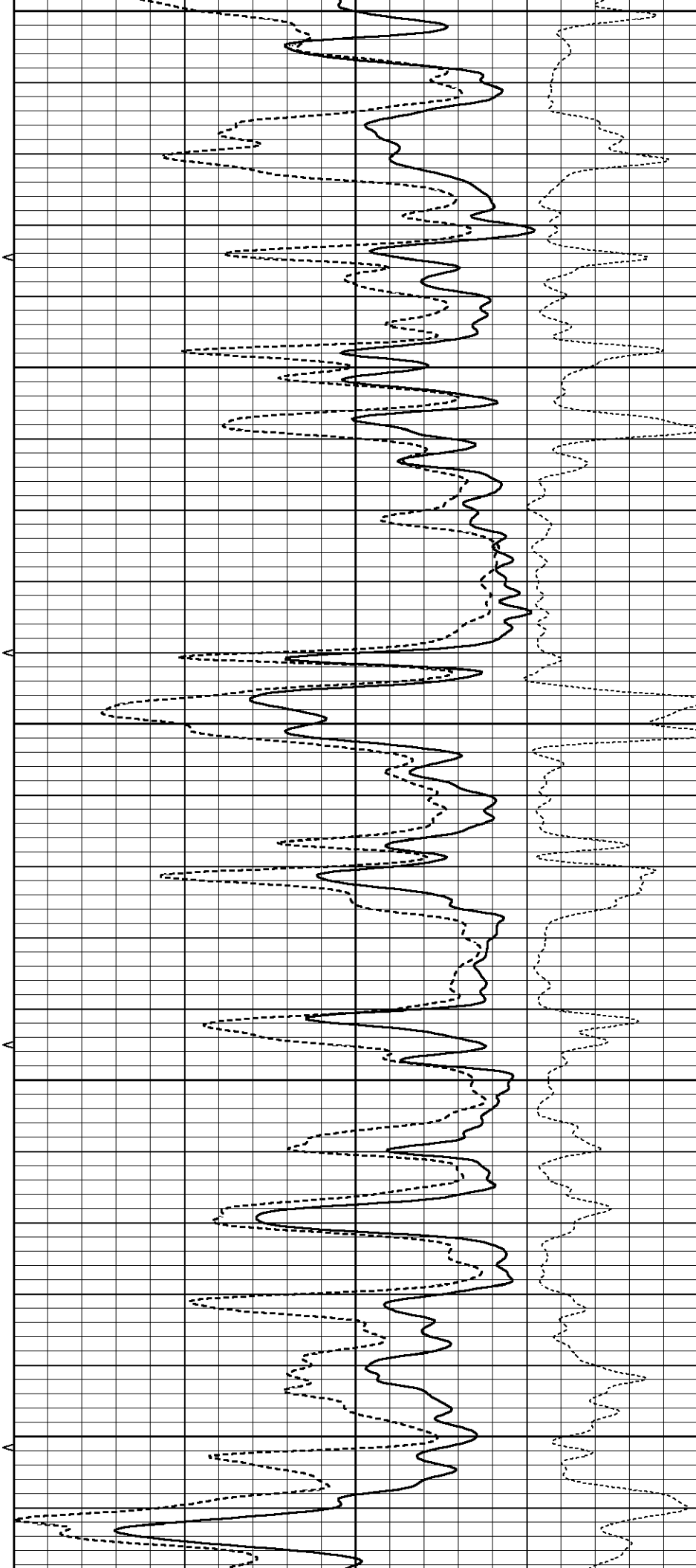
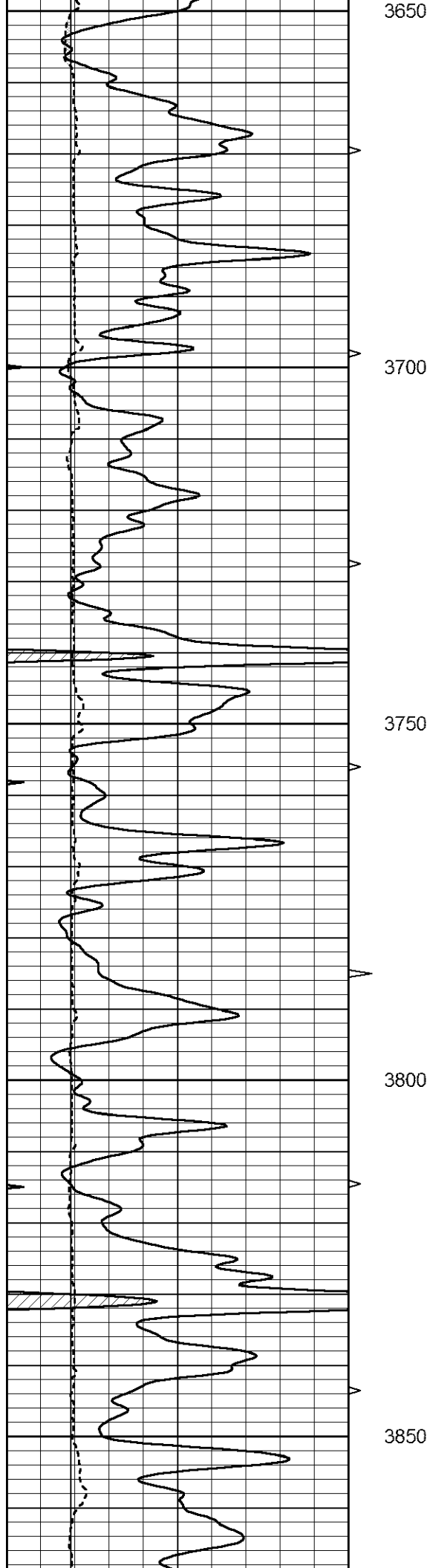
MAIN SECTION

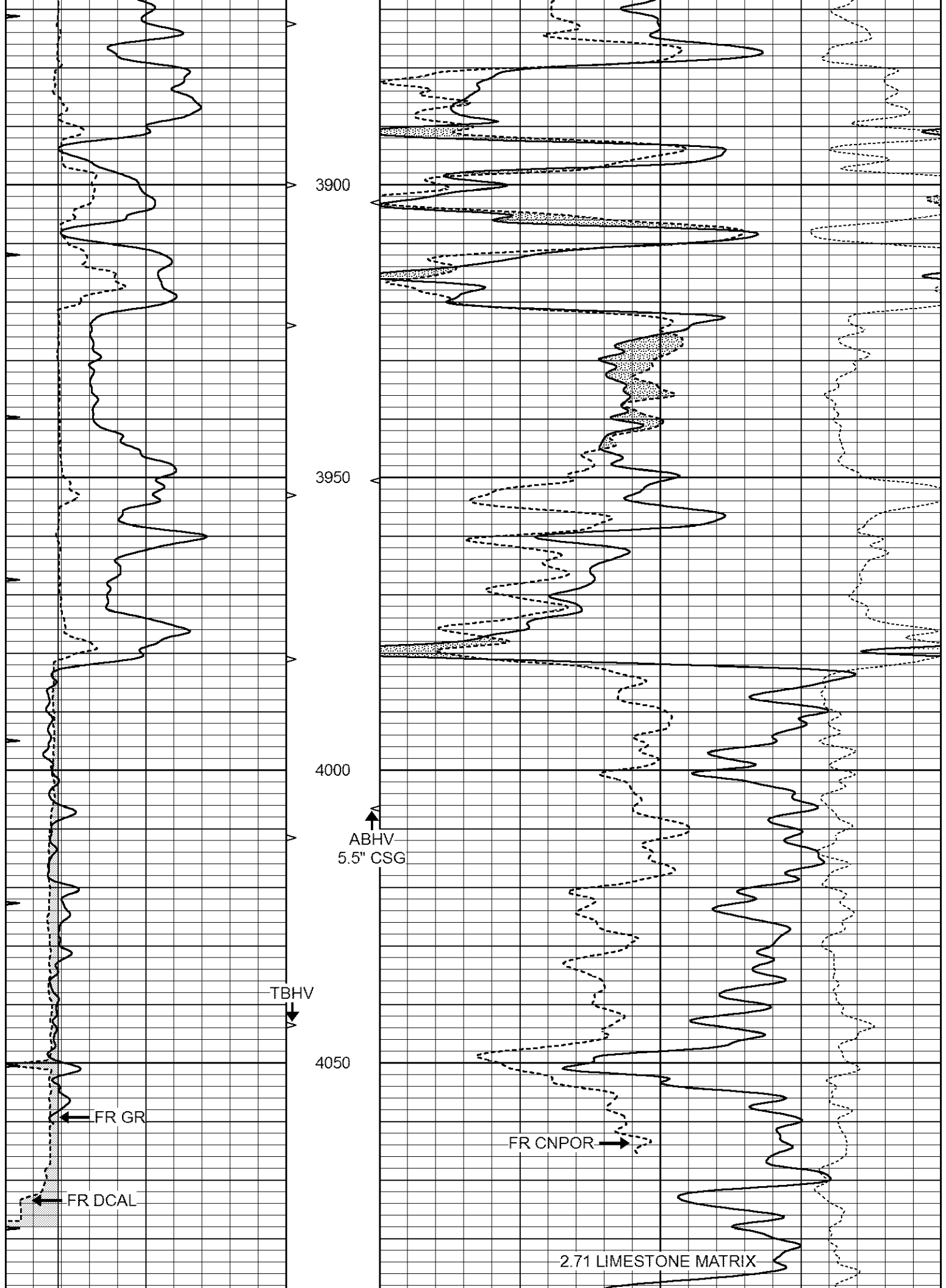
Database File	6237ddn.db
Dataset Pathname	pass6.1
Presentation Format	_den_neu
Dataset Creation	Sat Feb 12 08:20:22 2022
Charted by	Depth in Feet scaled 1:240

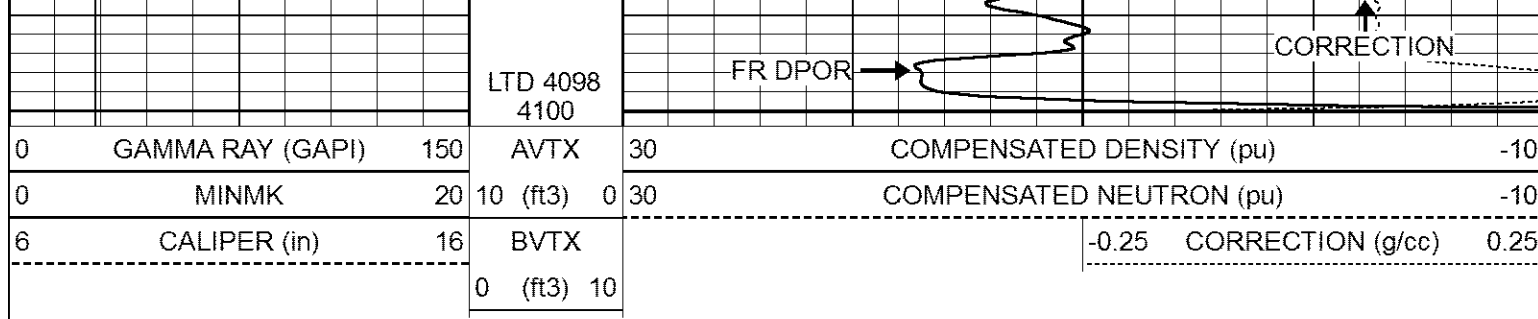
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			





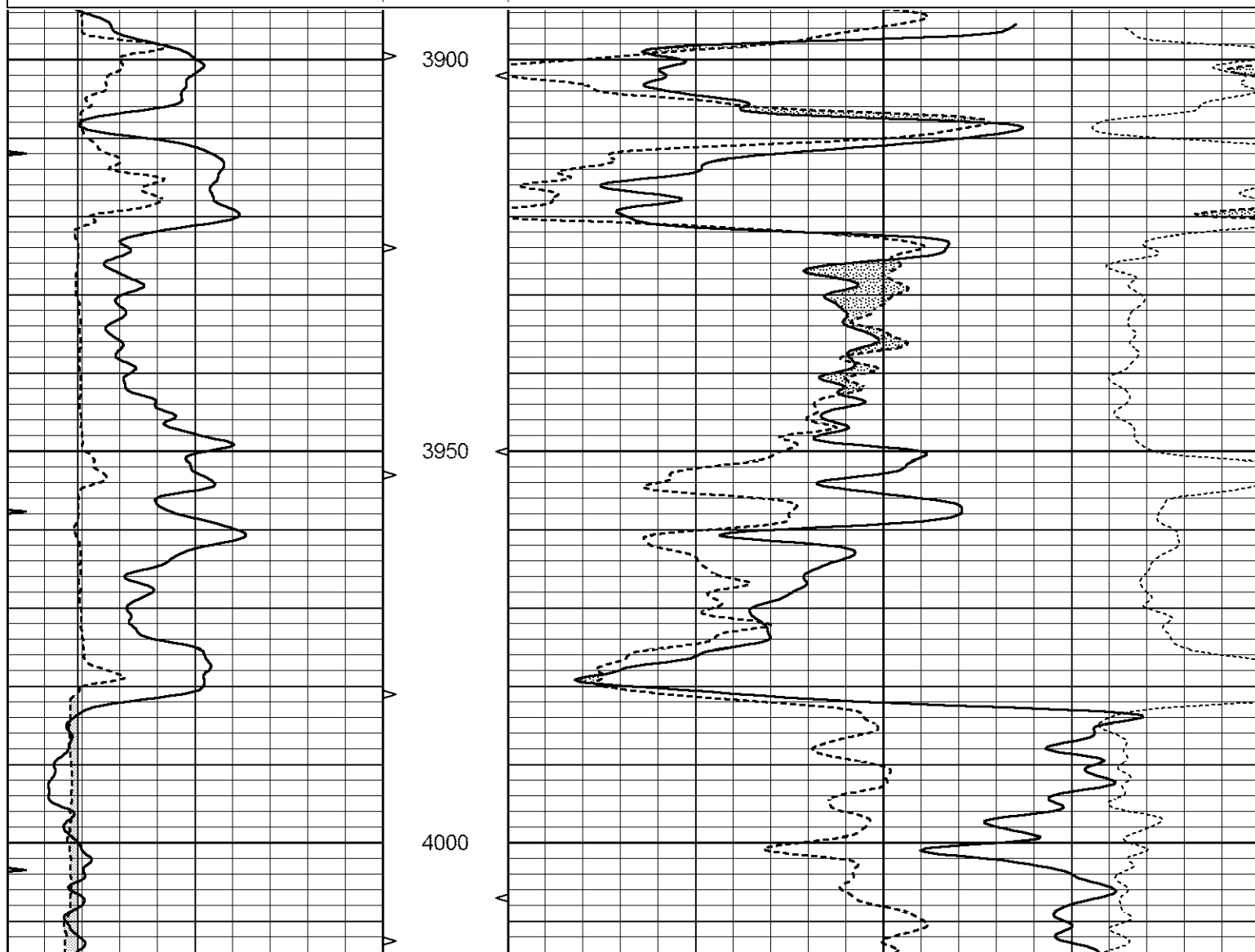
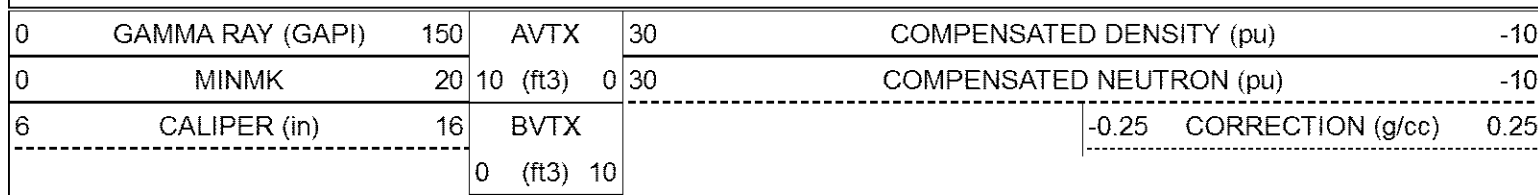


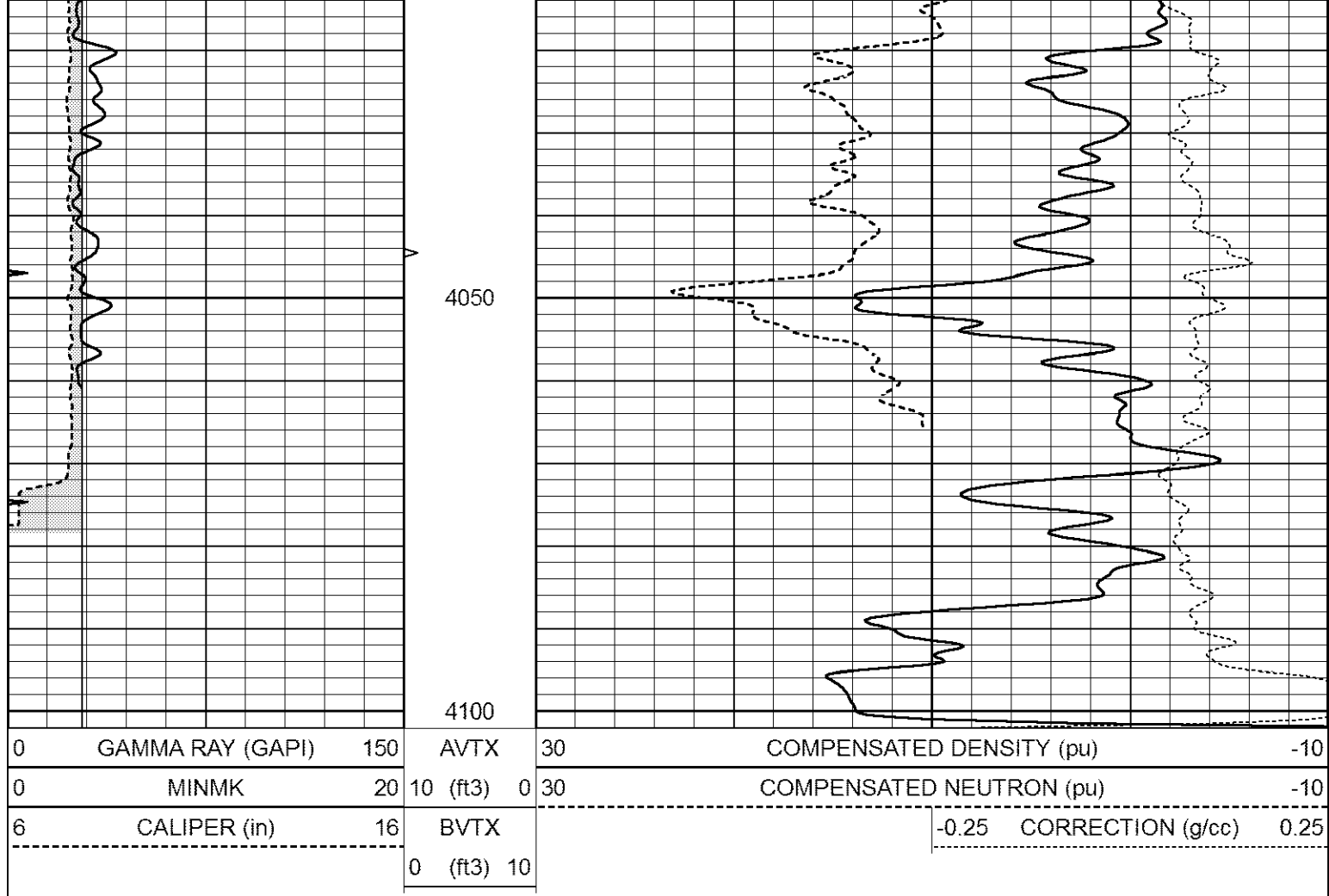




REPEAT SECTION

Database File 6237ddn.db
 Dataset Pathname pass5.1
 Presentation Format _den_neu
 Dataset Creation Sat Feb 12 08:23:05 2022
 Charted by Depth in Feet scaled 1:240





Calibration Report								
Database File	6237ddn.db							
Dataset Pathname	pass5.1							
Dataset Creation	Sat Feb 12 08:23:05 2022							
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
U2		7.171	V		2500.000	Ohm m		

LL3	7.471	V	2500.000	Ohm-m				
	0.001	V	20.000	Ohm-m				
	-7.085	V	4000.000	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: 140703								
Model: V4_10P								
Source Number: 74GBq-19								
Master Calibration			Performed: Tue Jan 25 14:00:06 2022					
	Background		Aluminum		Magnesium			
Window 1	536.63		5366.27		23525.73		cps	
Window 2	42.91		1241.07		5903.94		cps	
Window 4	234.22		1197.63		5056.39		cps	
Window 5	470.91		9159.65		17426.67		cps	
Window 6	30.83		648.89		1219.18		cps	
Window 8	256.26		4659.94		9003.51		cps	
Bulk Density	-		2.6020		1.6830		g/cc	
Pe	-		3.0000		2.5070		b/e	
LS Alpha:	: -1.8361		SS Alpha:	: -0.7848		LS CPE:	: 1.0879	
LS Beta:	: 117533.3616		SS Beta:	: 35294.5337		SS CPE:	: 5.9752	
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: Tue Jan 25 14:00:06 2022					
Results	Readings		References (in)					
	Low	High	Low	High		Gain		Offset
	10332.0	13596.9	8.0	14.0		0.0		-11.0
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		