

COMPENSATED DENSITY/NEUTRON LOG

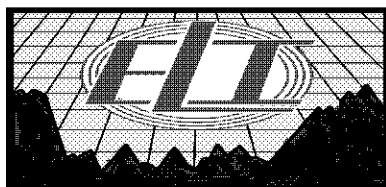
Company	TRIPLE CROWN OPERATING, LLC.		
Well	WONDERLAND #1-9		
Field			
County	NESS	State	KANSAS
Location:	API # : 15-135-25999-00-00 2510' FSL & 1750' FWL		Other Services DIL/MEL SONIC
Permanent Datum	SEC 9	TWP 20S	RGE 22W
Log Measured From	GROUND LEVEL Elevation 2240 KELLY BUSHING 5' A.G.L		Elevation K.B. 2245 D.F. 2243 G.L. 2240
Drilling Measured From	KELLY BUSHING		
Date	4/12/18		
Run Number	ONE		
Depth Driller	4500		
Depth Logger	4503		
Bottom Logged Interval	4479		
Top Log Interval	3600		
Casing Driller	8 5/8" @ 218'		
Casing Logger	218		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9000 PPM	
Density / Viscosity	9.3/48		
pH / Fluid Loss	9.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.44 @ 65F		
Rmf @ Meas. Temp	.33 @ 65F		
Rmc @ Meas. Temp	.52 @ 65F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.23 @ 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	ELI FELTS		

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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

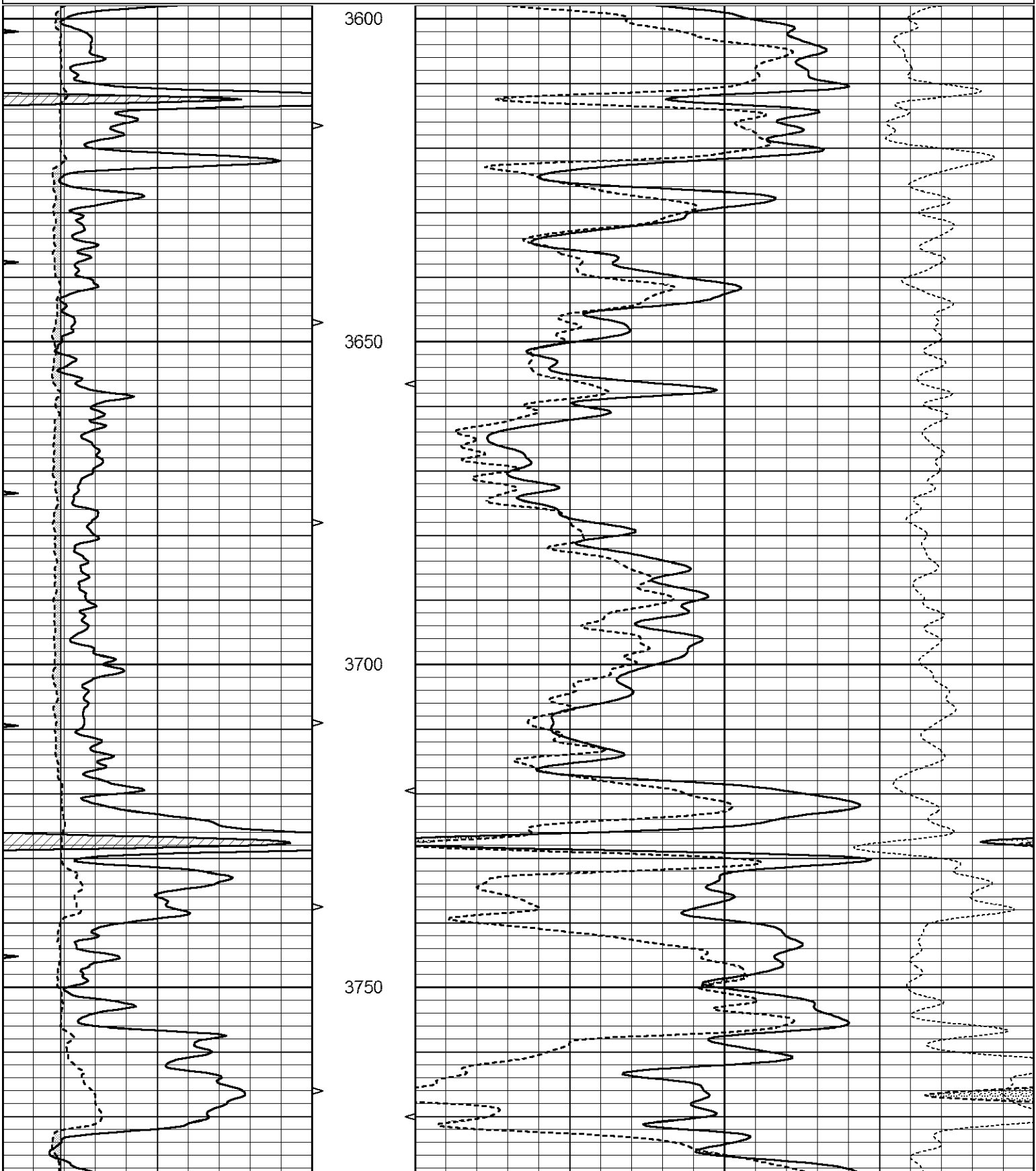
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
BAZINE, KS. - 3 WEST TO AA RD. - 8 SOUTH TO RD 50 - 1 WEST TO RD. Z
1/2 SOUTH - EAST INTO

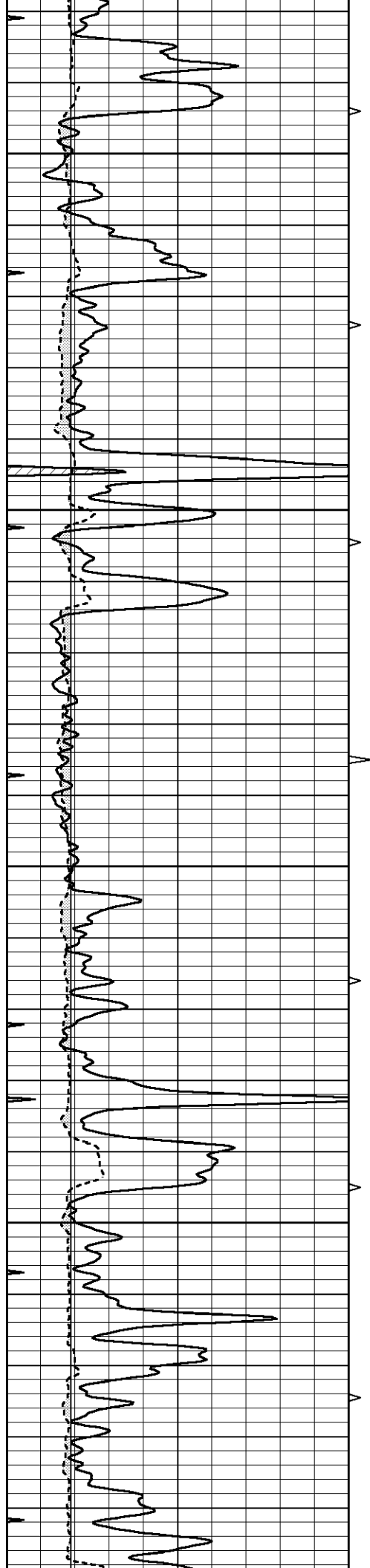


MAIN SECTION

Database File	2041ddn8.db
Dataset Pathname	pass3.1
Presentation Format	_den_neu
Dataset Creation	Thu Apr 12 10:44:50 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					



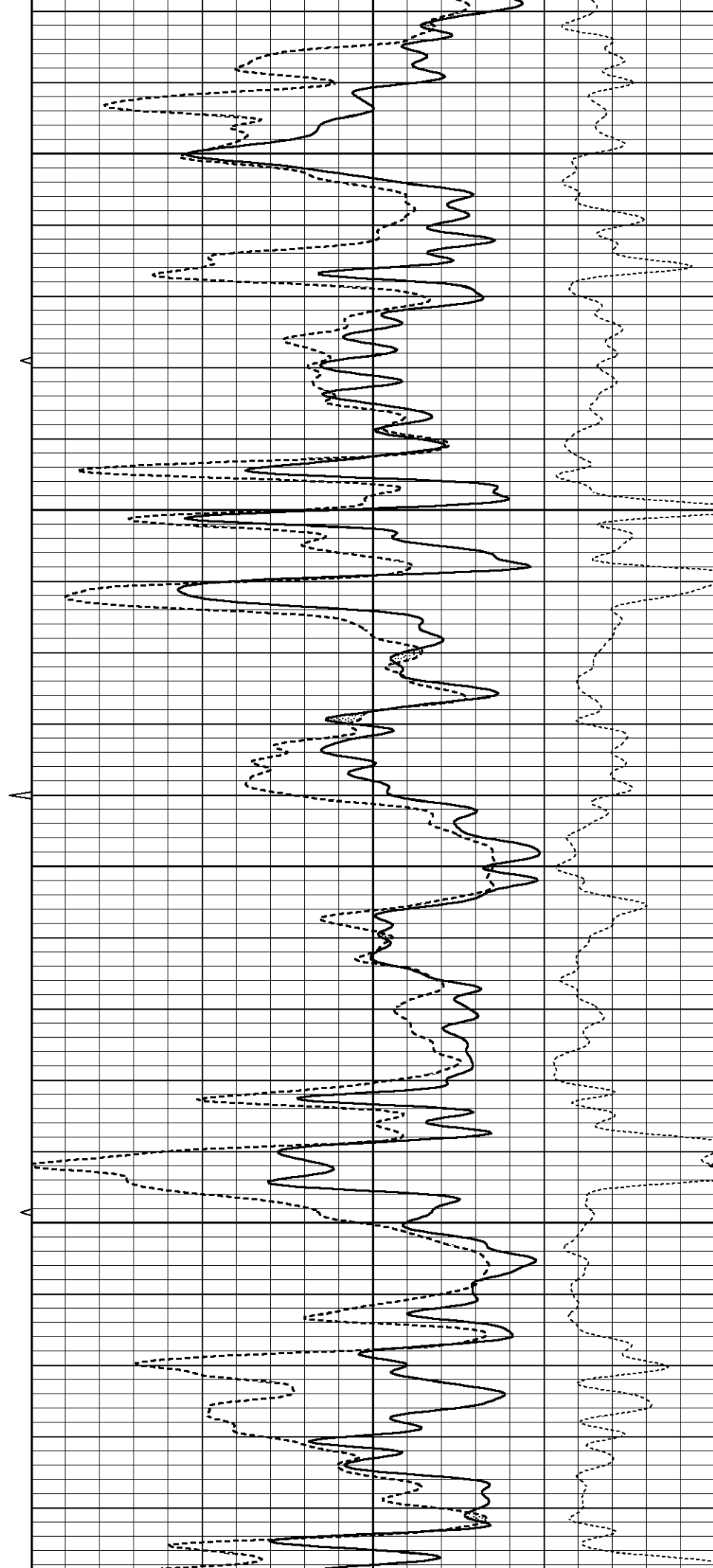


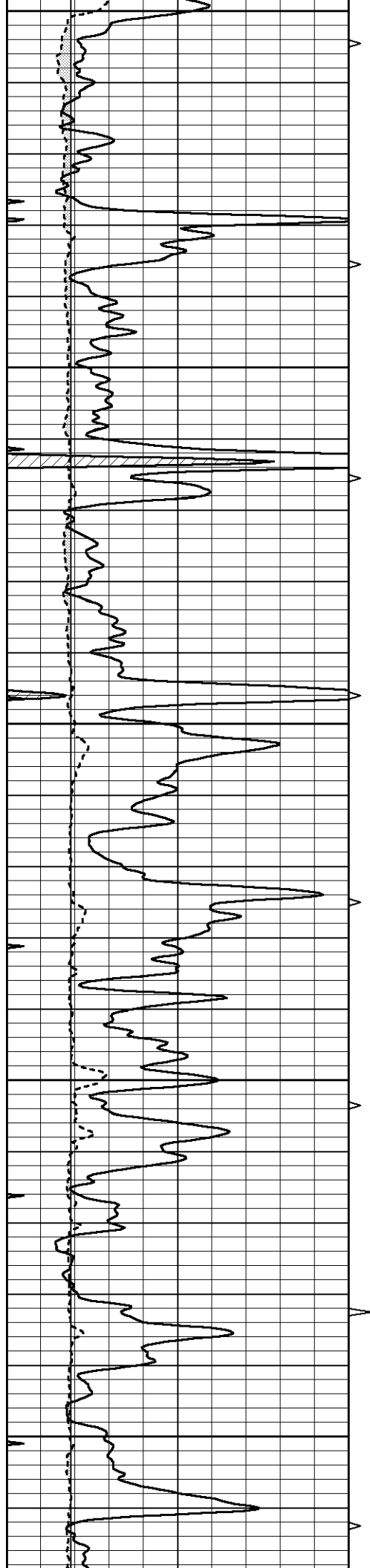
3800

3850

3900

3950





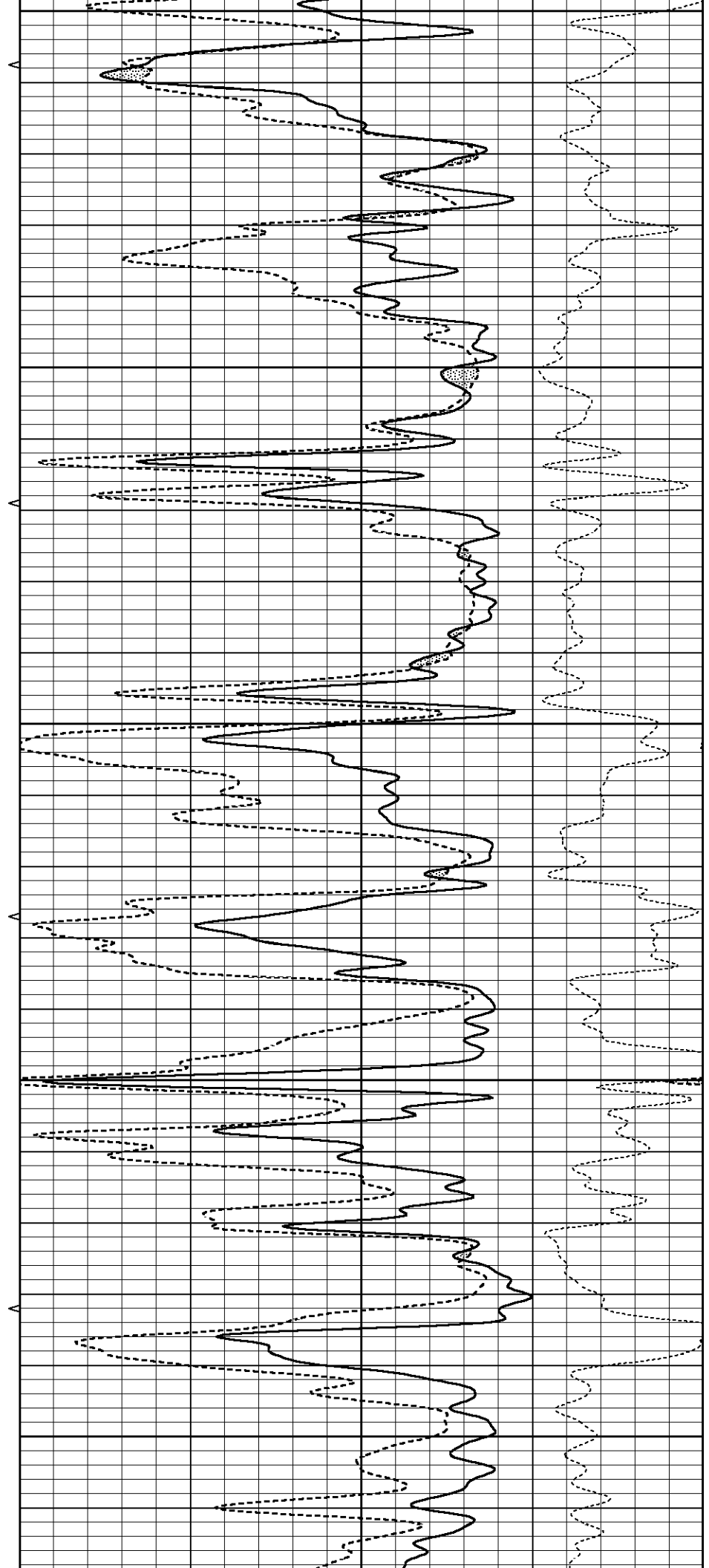
4000

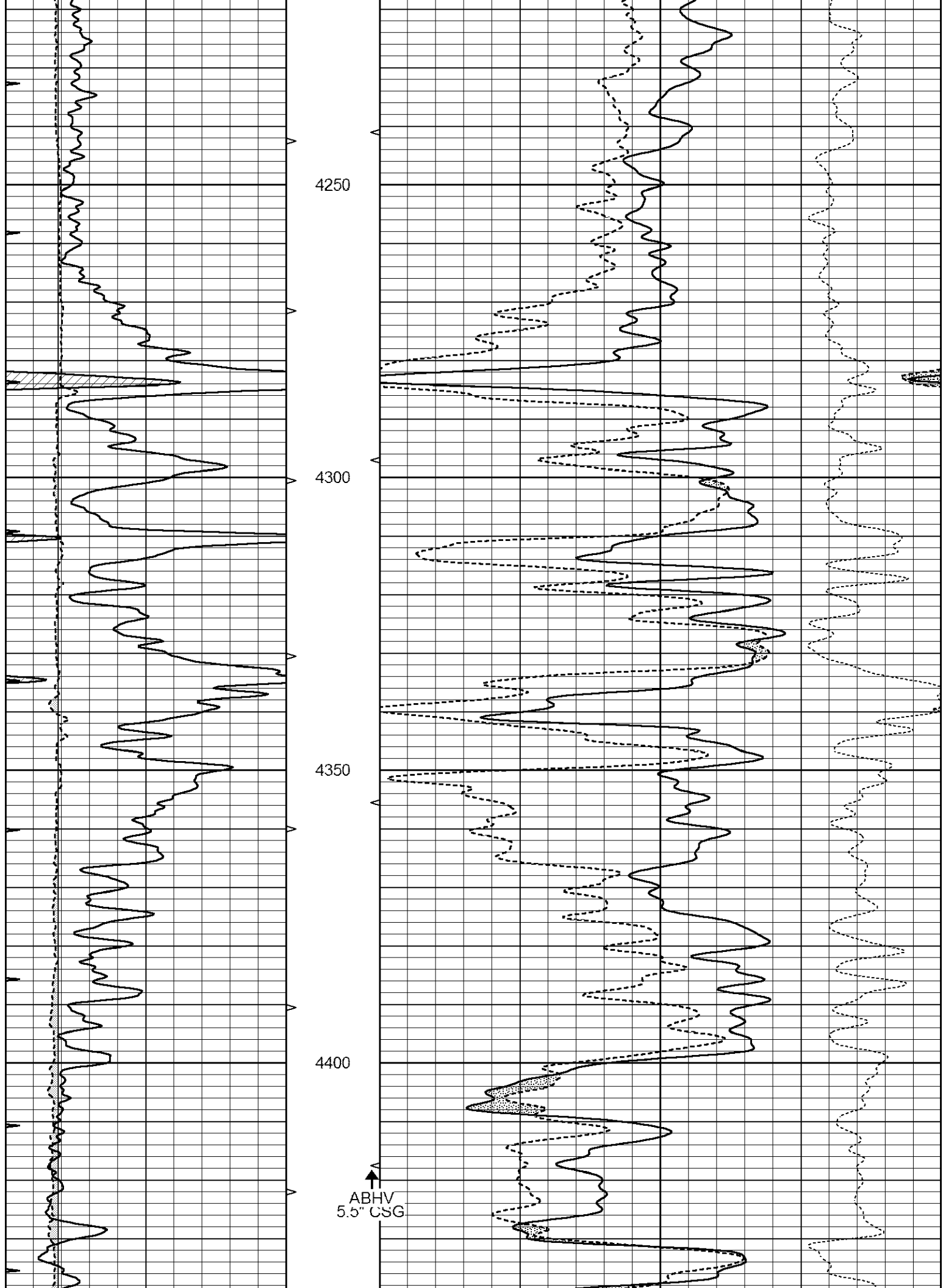
4050

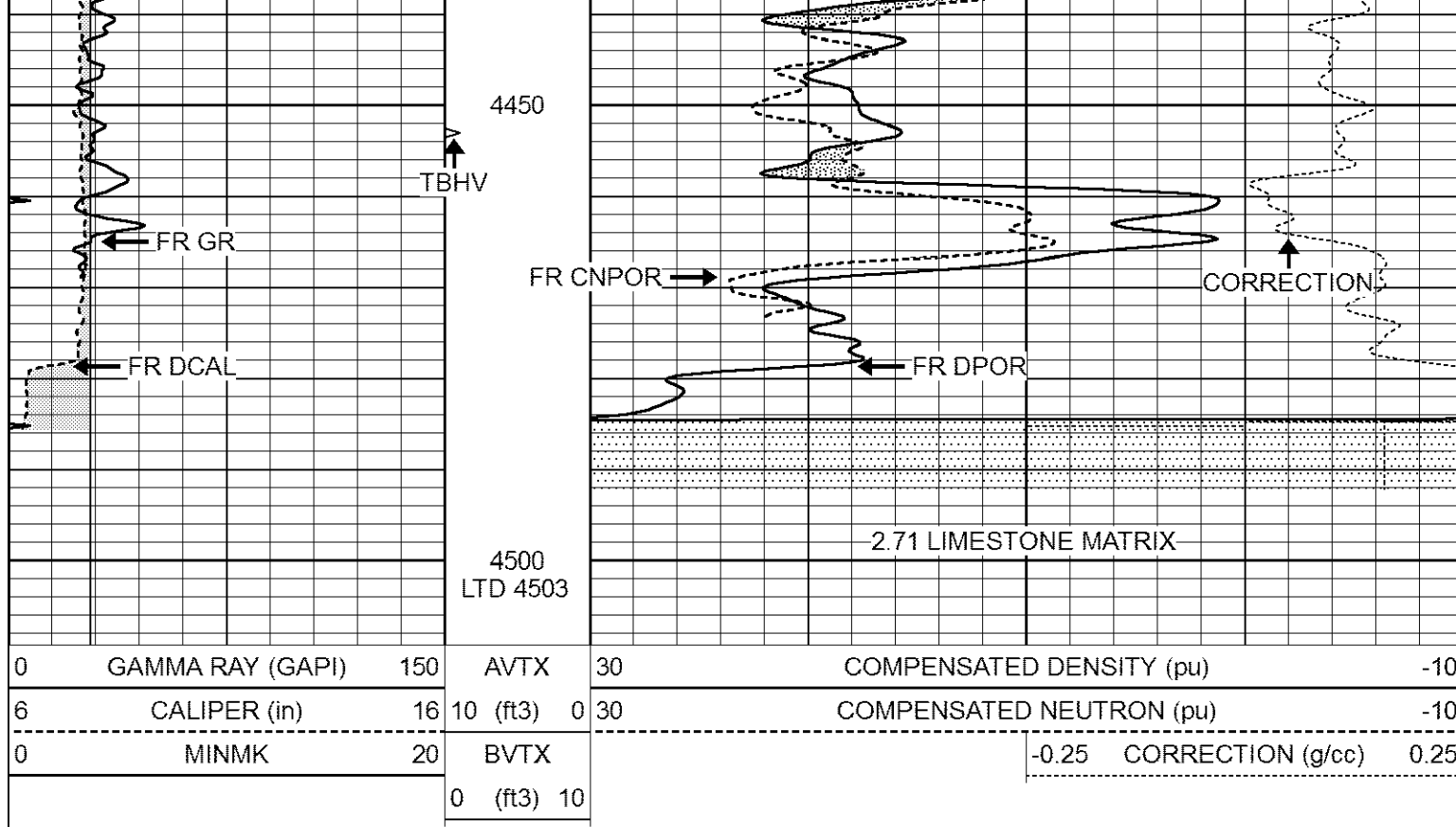
4100

4150

4200



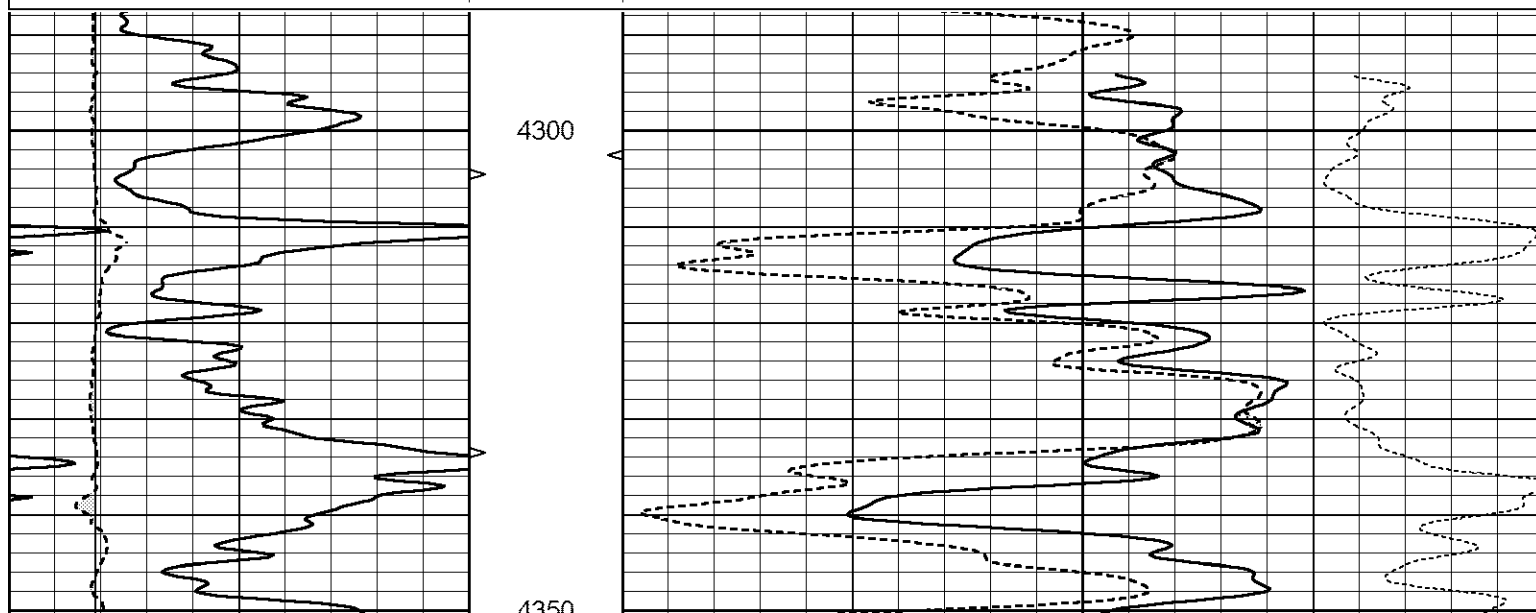


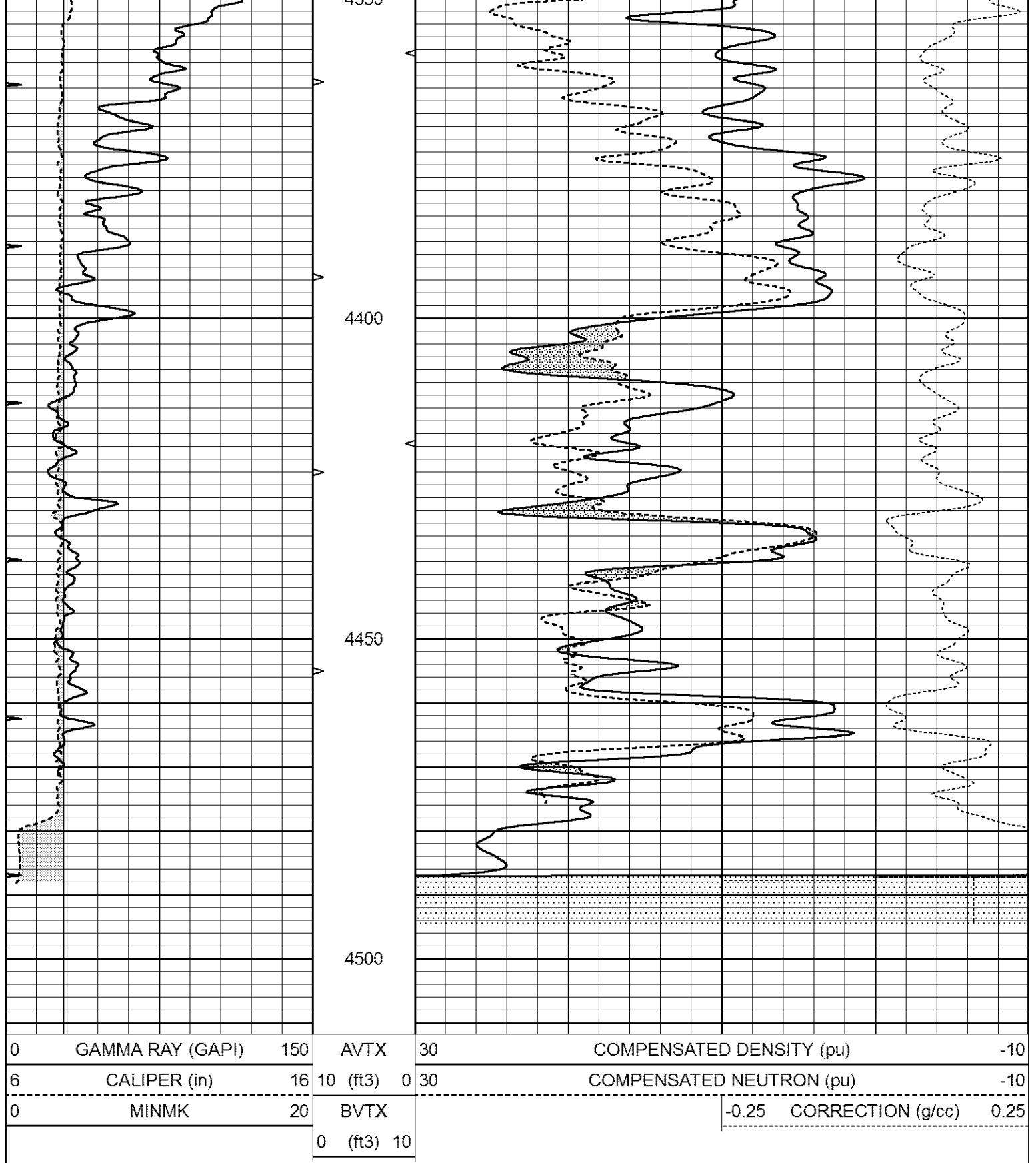


REPEAT SECTION

Database File 2041ddn8.db
 Dataset Pathname pass2.1
 Presentation Format _den_neu
 Dataset Creation Thu Apr 12 10:34:12 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			





Calibration Report

Database File 2041ddn8.db
Dataset Pathname pass2.1
Dataset Creation Thu Apr 12 10:34:12 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

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:
LS Beta:	: 138648.8473	SS Beta:	: 21960.9250	SS CPE:

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)
Low	High	Low High Gain Offset
1107.5	7124.1	8.0 15.0 0.0 6.3
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	pu
Long Space	cps	pu
POST-SURVEY VERIFICATION		
Detector	Readings	Measured Target
Short Space	cps	pu
Long Space	cps	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

