



COMPENSATED
DENSITY/NEUTRON
LOG

Company	LD DRILLING, INC.	Company	LD DRILLING, INC.
Well	KOZISEK "B" #1-16	Well	KOZISEK "B" #1-16
Field	STOLTENBERG	Field	STOLTENBERG
County	ELLSWORTH	County	ELLSWORTH
State	KANSAS	State	KANSAS
Location:	API # : 15-053-20426-0001 990' FSL & 500' FWL E2 - NW - SW - SW	Other Services DIL/MEL	
Permanent Datum	GROUND LEVEL	Elevation	
Log Measured From	KELLY BUSHING 8' A.G.L	K.B. 1903	
Drilling Measured From	KELLY BUSHING	D.F. 1901	
		G.L. 1895	
Date	8/5/22		
Run Number	ONE		
Depth Driller	3505		
Depth Logger	3478		
Bottom Logged Interval	3454		
Top Log Interval	2600		
Casing Driller	8 5/8" @ 378		
Casing Logger	378		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5.000 PPM	
Density / Viscosity	8.7/50		
pH / Fluid Loss	11.0/9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.00 @ 80F		
Rmt @ Meas. Temp	.750 @ 80F		
Rmc @ Meas. Temp	1.20 @ 80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.714 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	12:30 P.M.		
Maximum Recorded Temperature	112F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBEN		
Witnessed By	KIM SHOEMAKER		

<<< Fold Here >>>

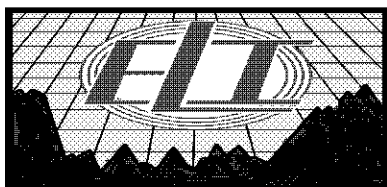
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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:

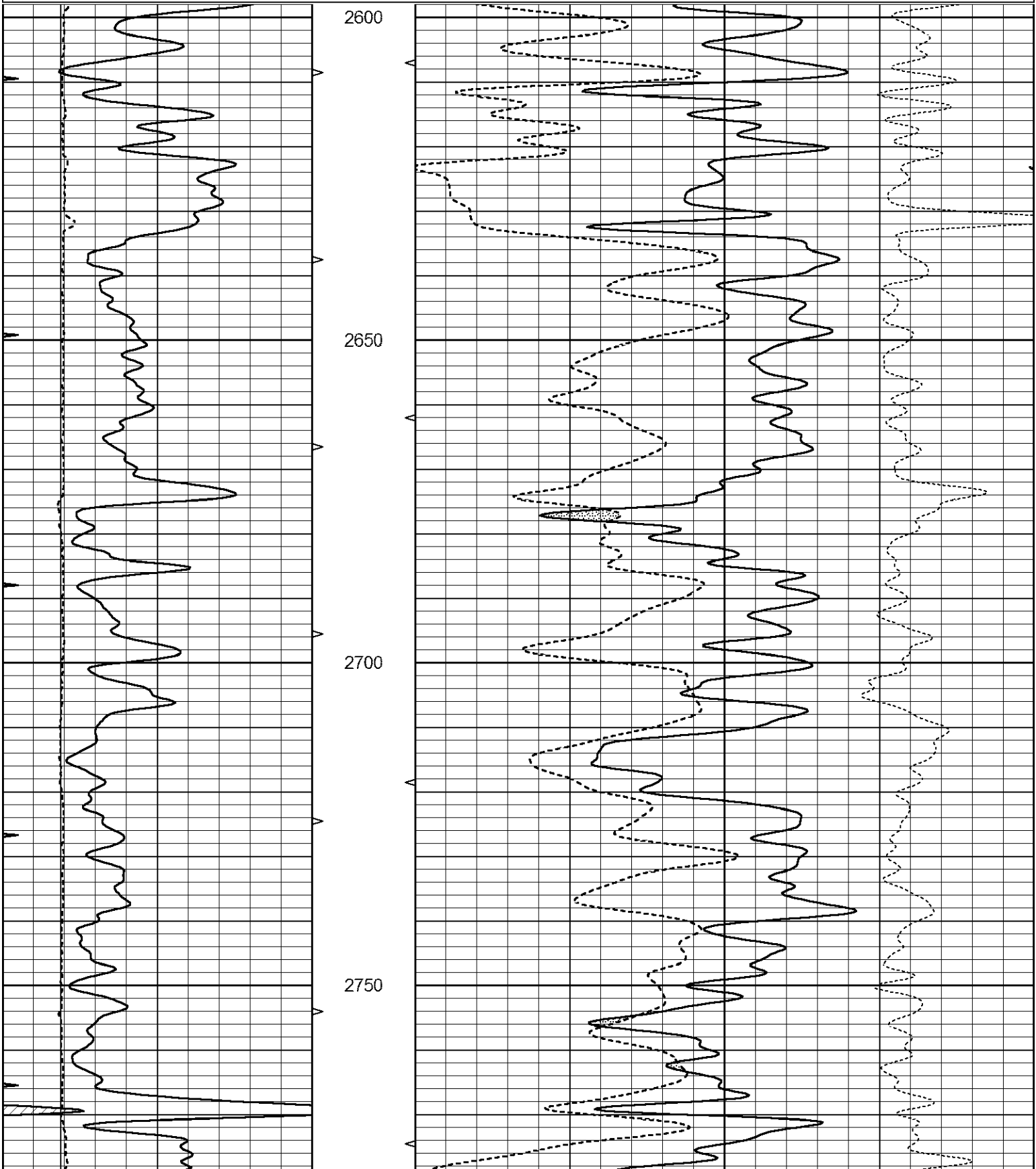
FROM WILSON, KANSAS GO 11 MILES SOUTH TO P ROAD, 2 MILES EAST, 1/8 MILE NORTH, EAST INTO

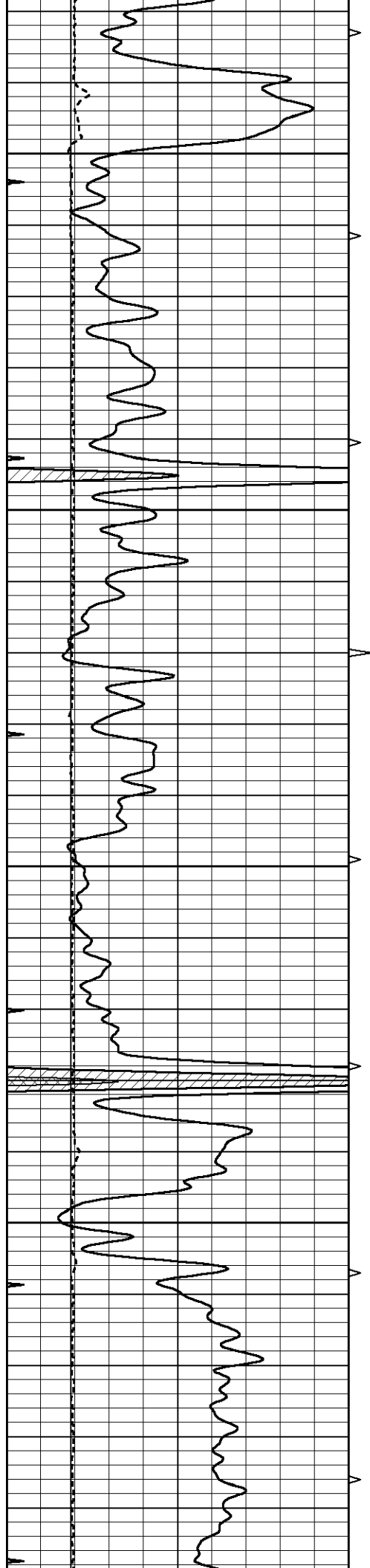


MAIN SECTION

Database File	6765ddn.db
Dataset Pathname	pass4M
Presentation Format	_den_neu
Dataset Creation	Fri Aug 05 14:10:39 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			



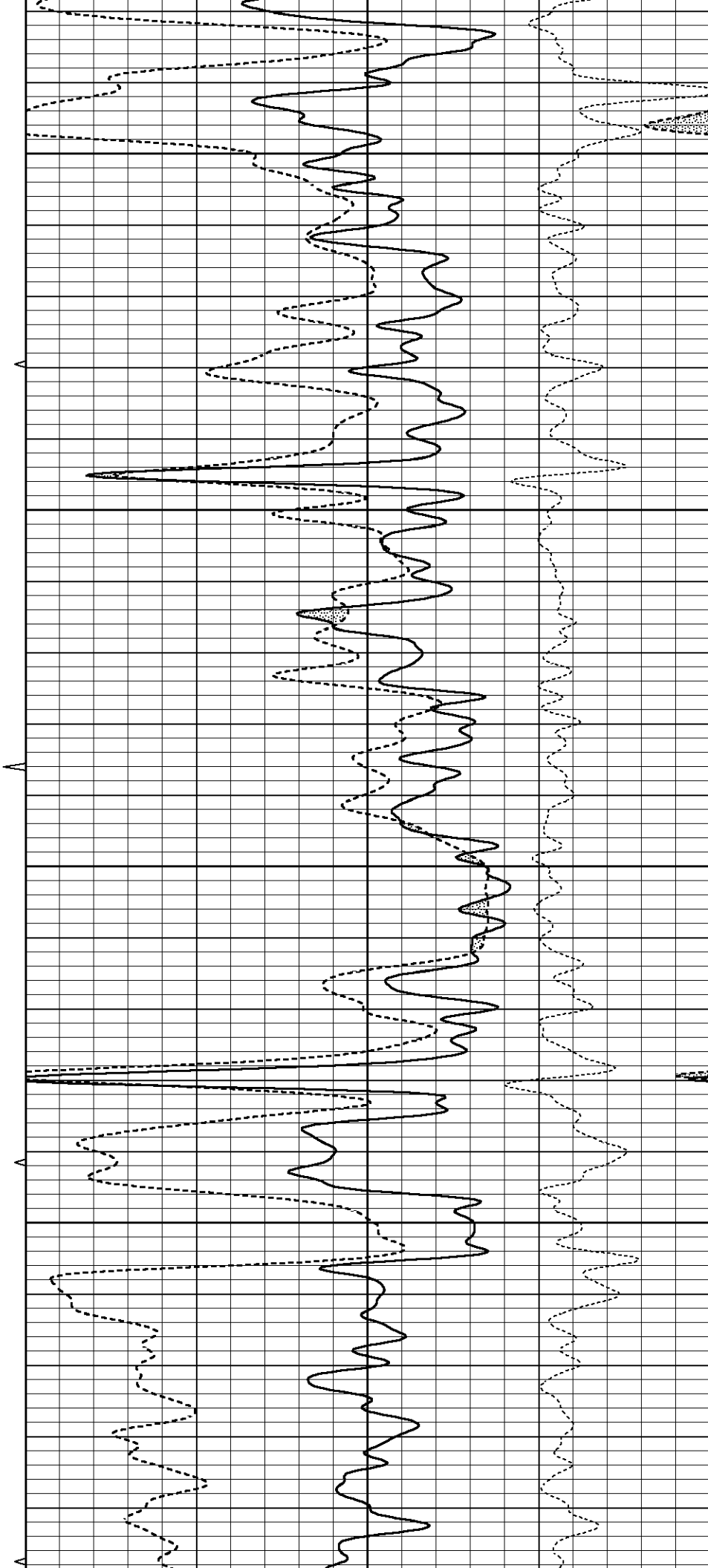


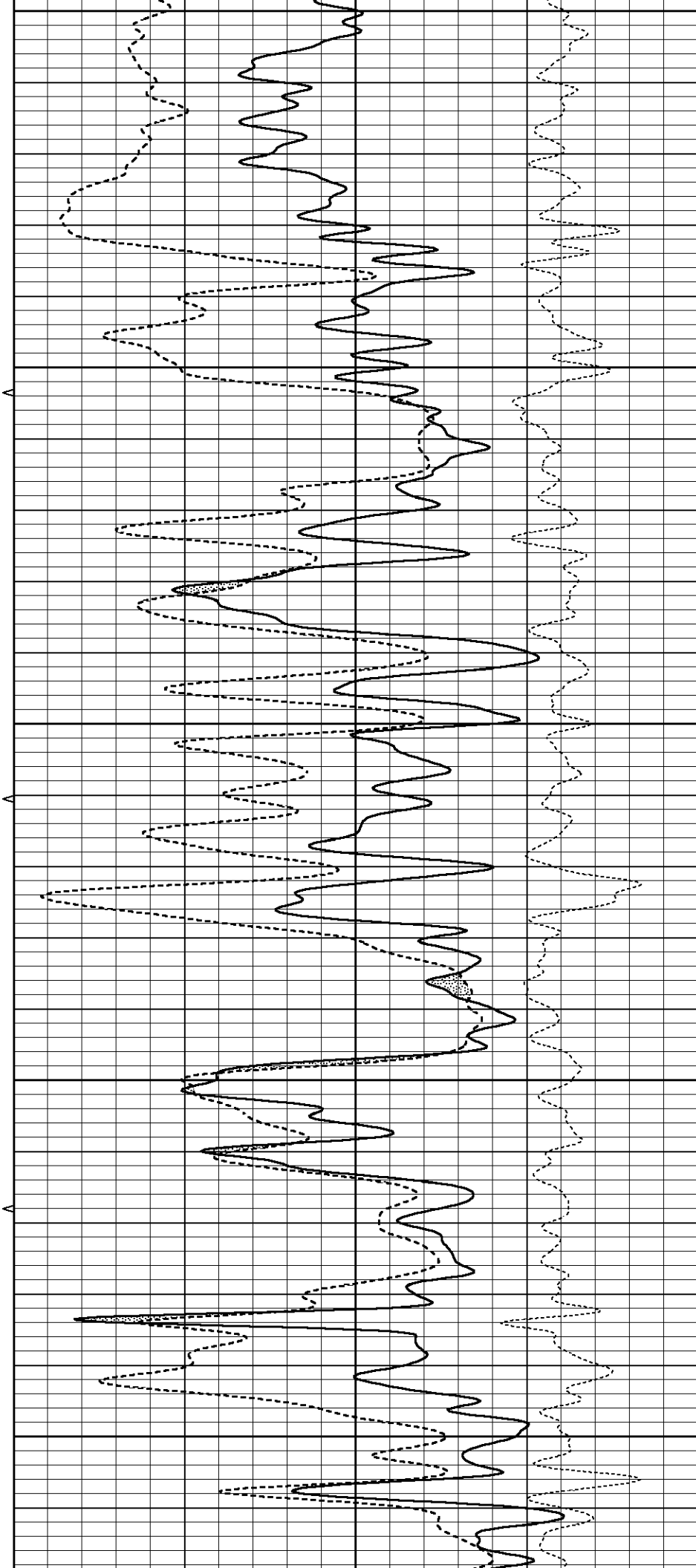
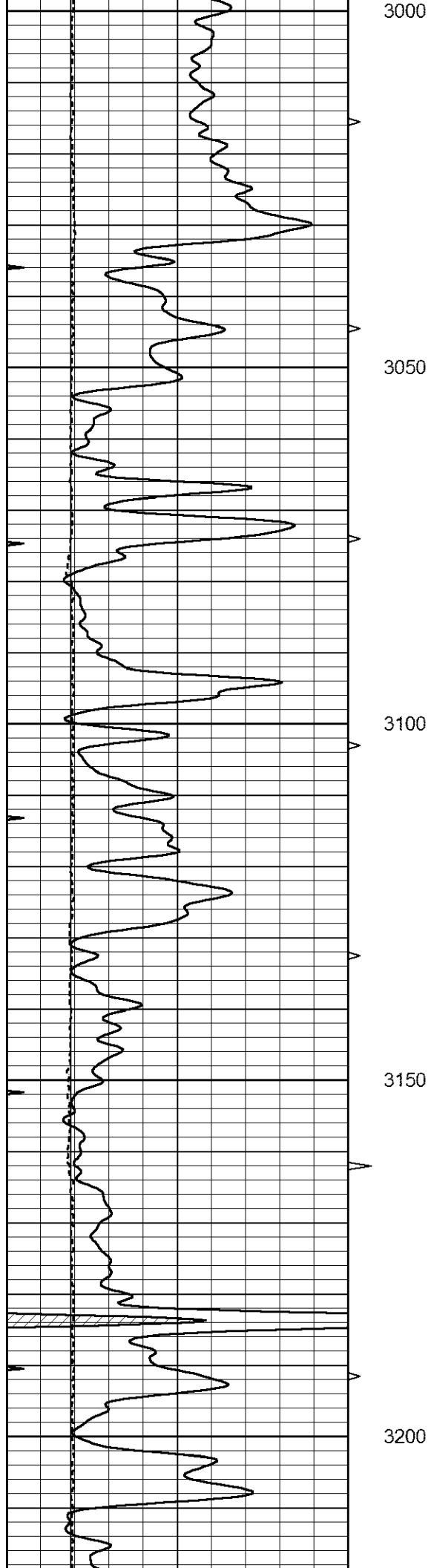
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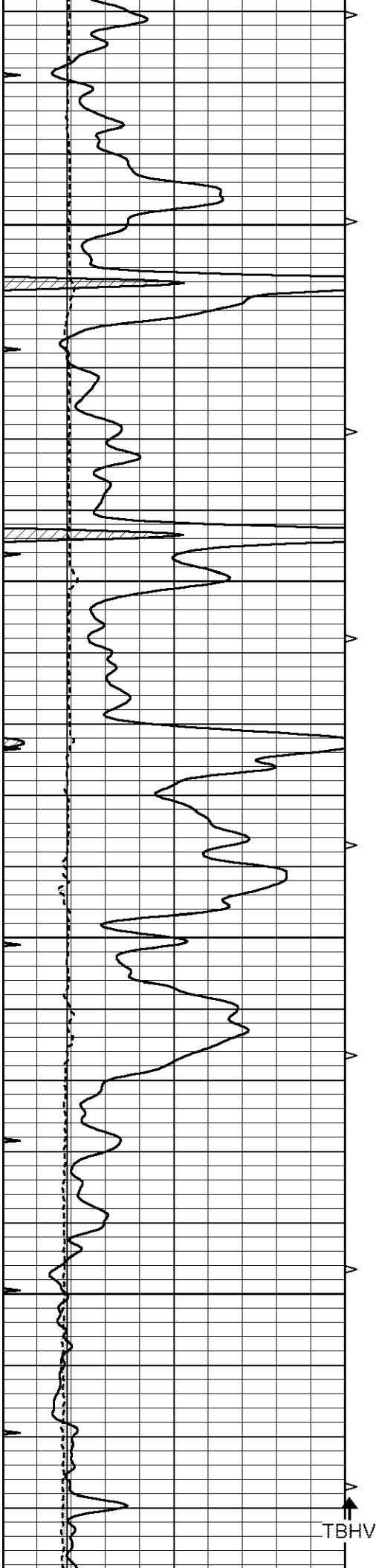
2850

2900

2950







3250

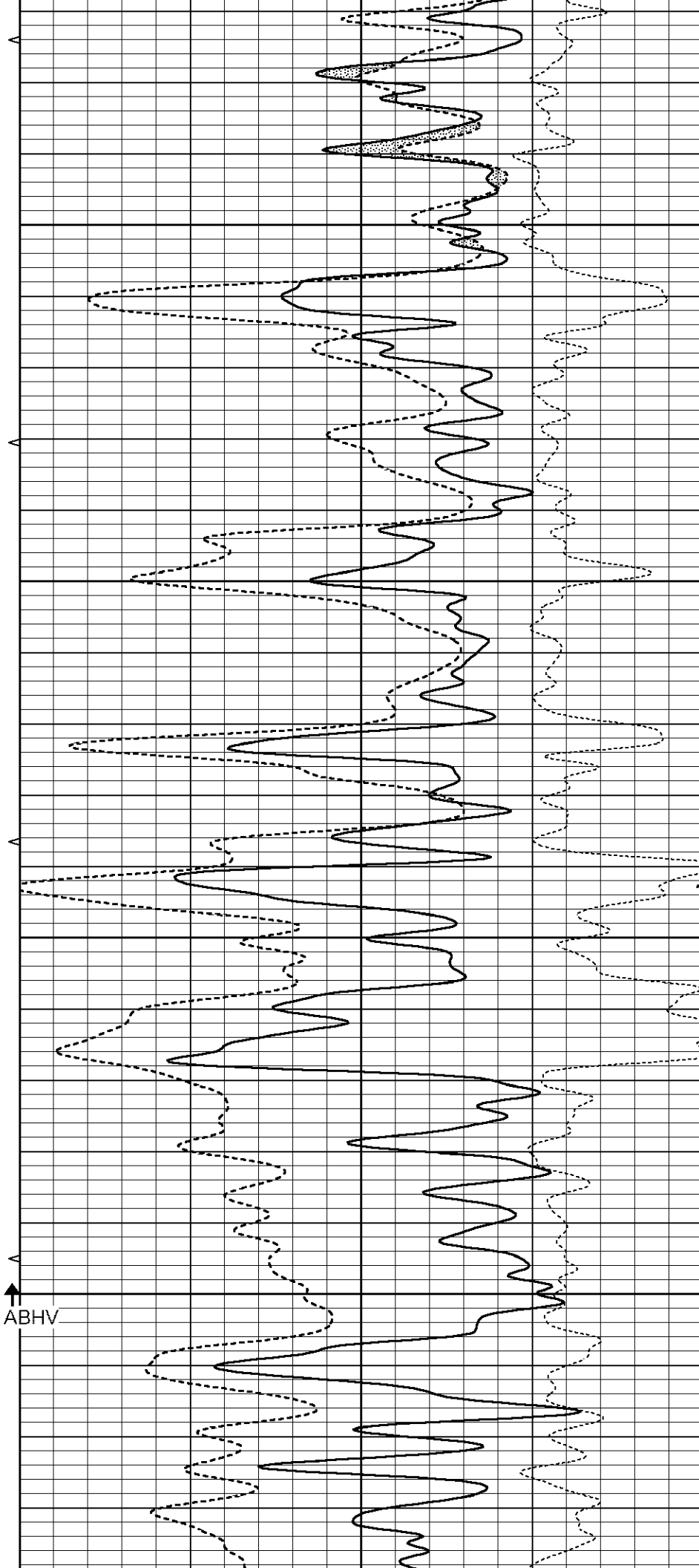
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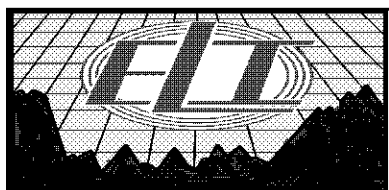
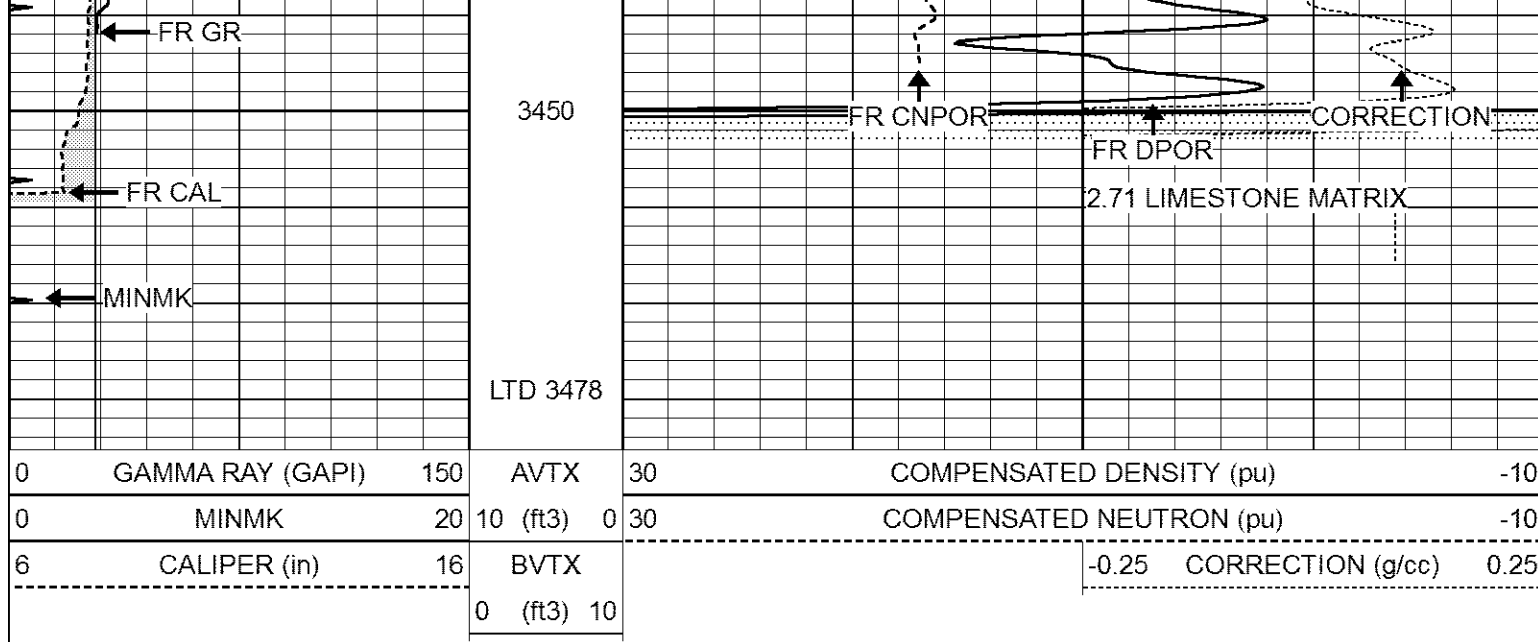
3350

3400

TBHV

5.5" ABHV

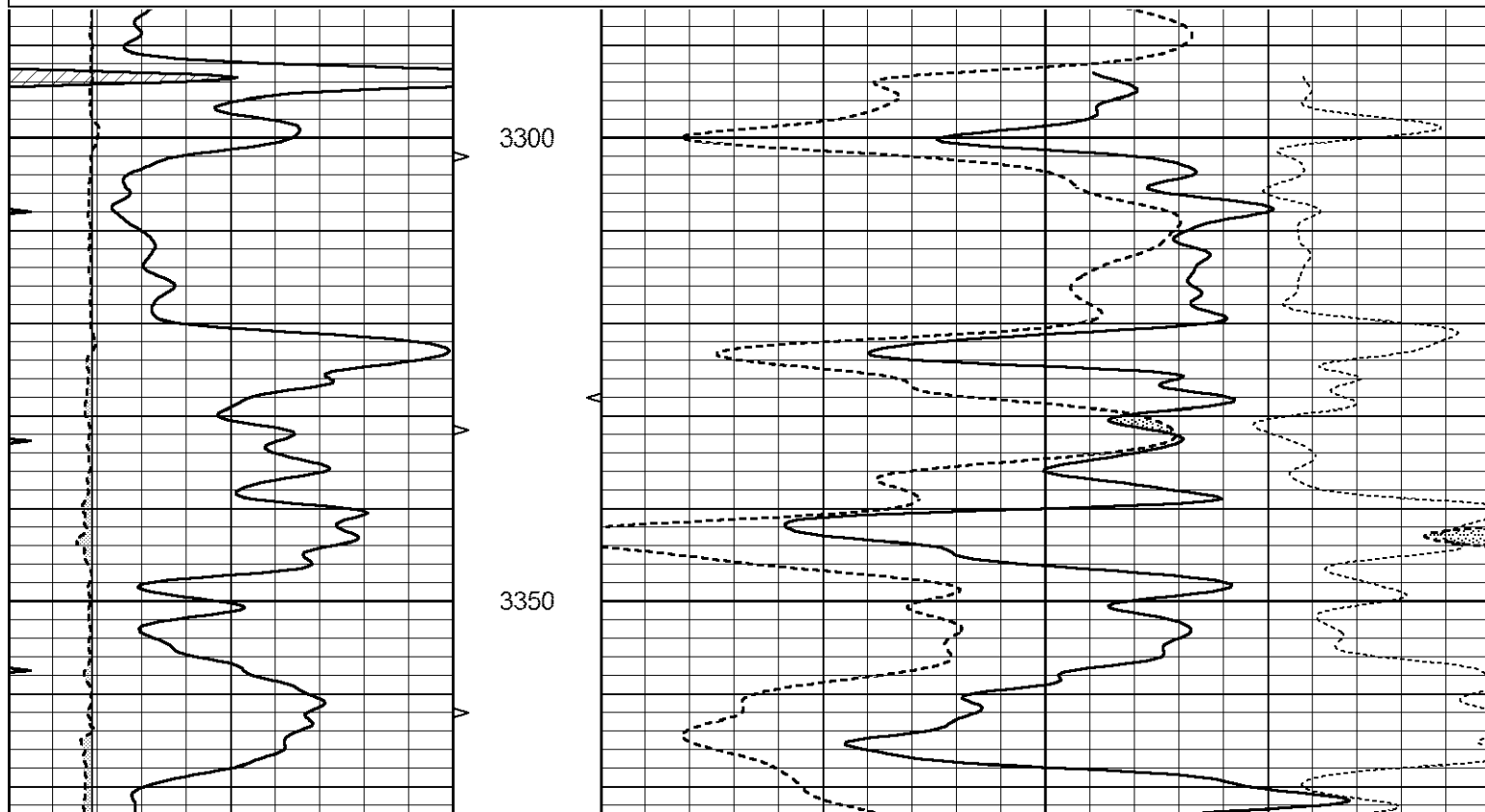


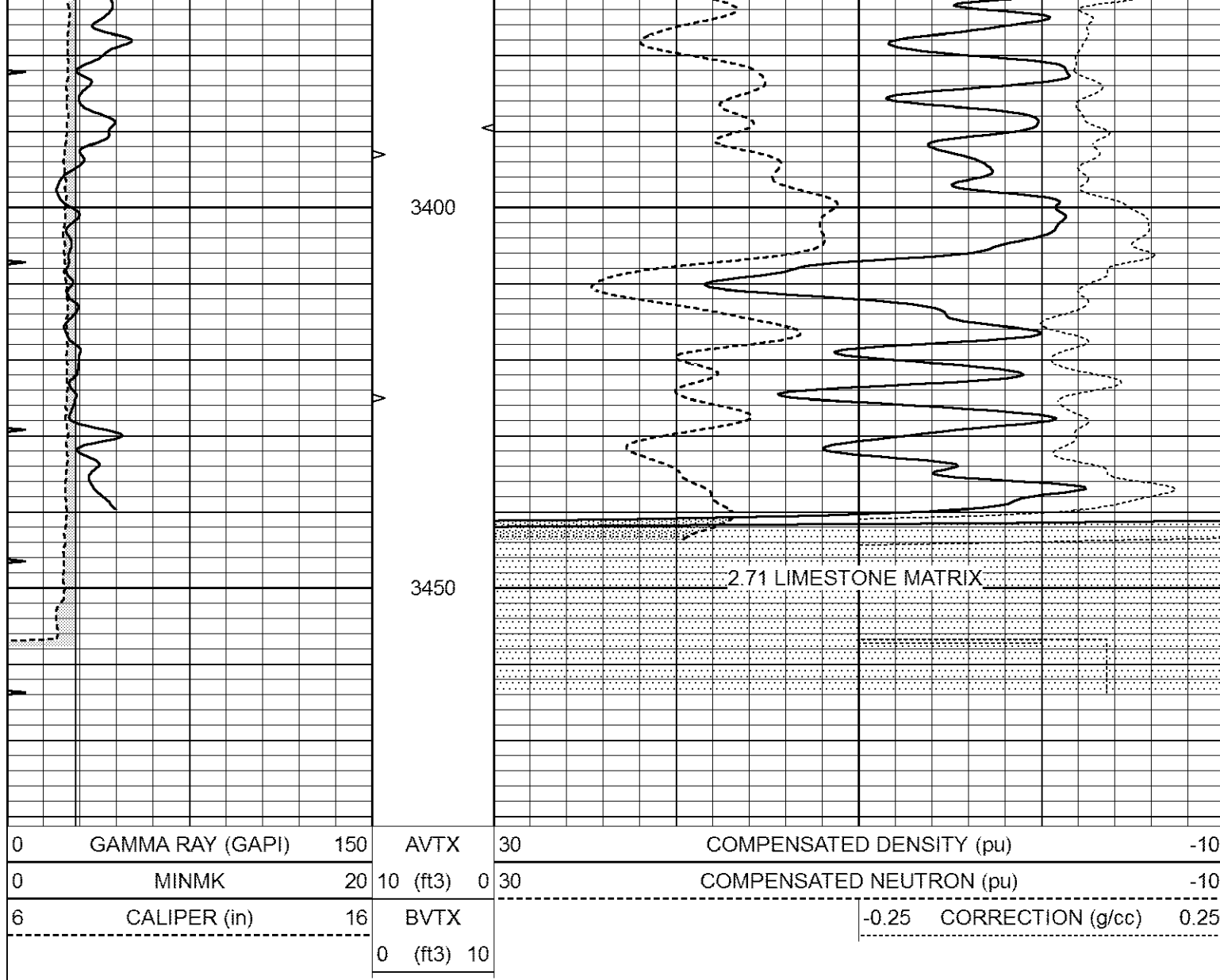


LIMESTONE MATRIX REPEAT

Database File 6765ddn.db
 Dataset Pathname pass3.4
 Presentation Format _den_neu
 Dataset Creation Fri Aug 05 13:55:00 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			

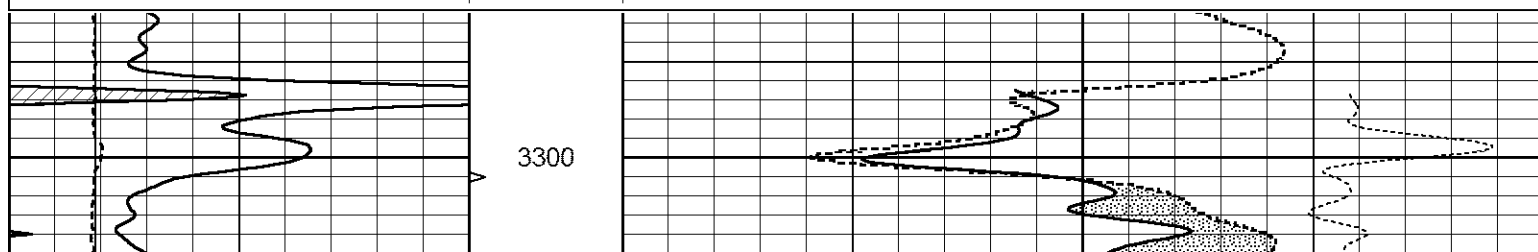


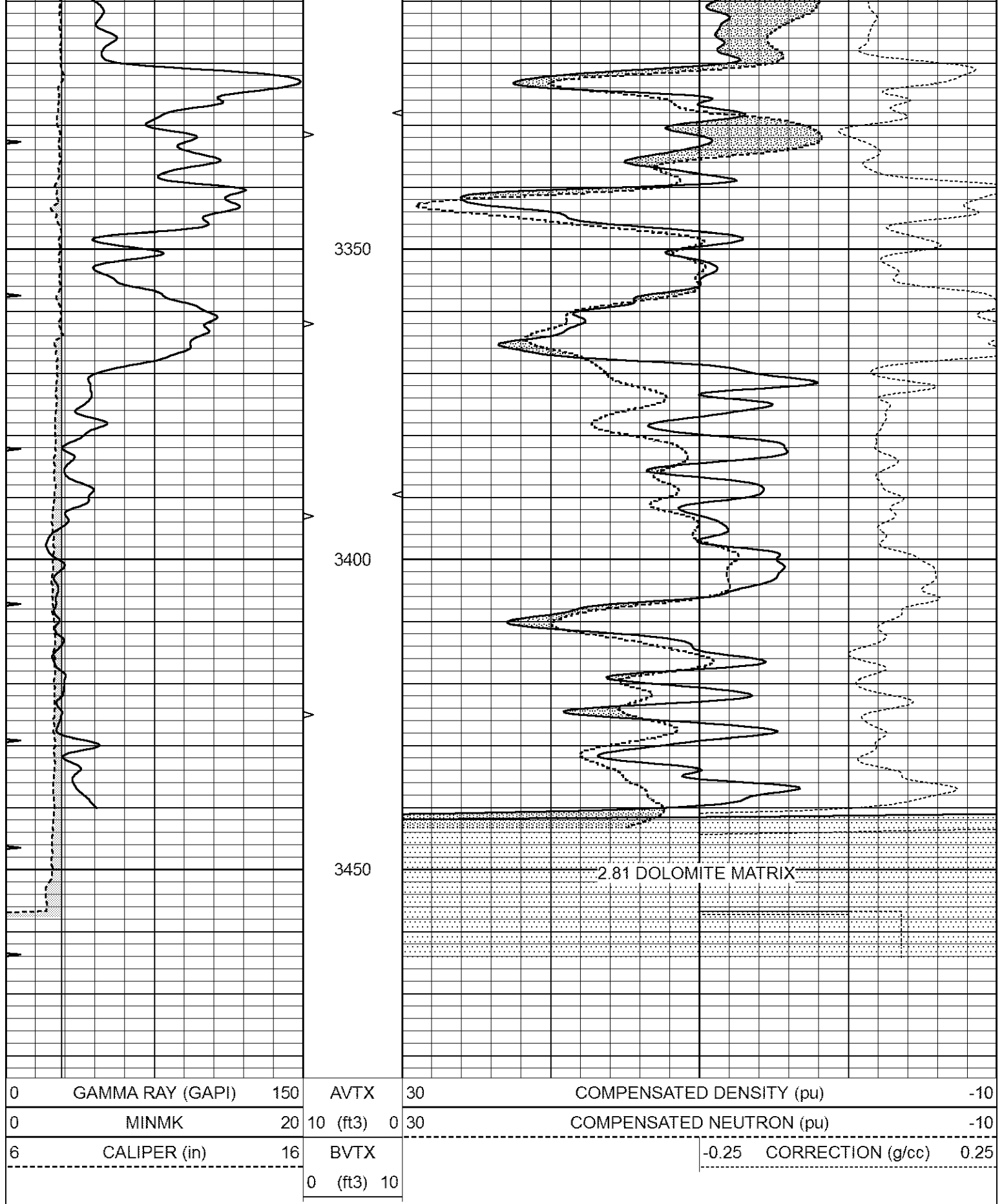


DOLOMITE MATRIX REPEAT

Database File 6765ddn.db
 Dataset Pathname pass3DOL
 Presentation Format _den_neu
 Dataset Creation Fri Aug 05 15:04:21 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			





Calibration Report

Database File 6765ddn.db
Dataset Pathname pass4M
Dataset Creation Fri Aug 05 14:10:39 2022

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Thu Jun 30 01:48:00 2022
 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	650.000	-3.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	-10.500
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: 140704

Model: V4_10P

Source Number: 74GBq-19

Master Calibration

Performed: Wed Jul 20 12:36:34 2022

	Background	Aluminum	Magnesium	
Window 1	503.67	5439.20	23645.11	cps
Window 2	40.11	1218.66	5702.60	cps
Window 4	221.18	1240.69	5295.43	cps
Window 5	542.56	7631.48	14305.13	cps
Window 6	41.67	1209.53	2345.40	cps
Window 8	256.91	2493.92	4591.85	cps
Bulk Density	-	2.6020	1.6830	g/cc
Pe	-	3.0000	2.5070	b/e

LS Alpha: : -1.8302 SS Alpha: : -0.7503 LS CPE: : 1.1699
 LS Beta: : 122464.5983 SS Beta: : 16307.0478 SS CPE: : 1.6095

Before Survey Background Counts Verification

Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	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 Jul 20 12:36:34 2022

Results	Readings	References (in)			
Low	High	Low	High	Gain	Offset
11331.0	15645.5	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:	Thu May 26 08:56:46 2022
Calibrator Value:	1.0
Probe Count Rate:	GAPI

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps