



COMPENSATED DENSITY/NEUTRON PE LOG

Company YOUNGER ENERGY CO.

Well JARBOE "21" #1-30

Field UNNAMED

County PRATT State KANSAS

Location: API #: 15-151-22573-0000

2287' FNL & 350' FWL

Other Services
DIL/MEL
SONIC

SEC 30 TWP 26S RGE 13W

Permanent Datum GROUND LEVEL Elevation 1961
Log Measured From KELLY BUSHING 13' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1974
D.F. 1972
G.L. 1961

Date 10/30/21

Run Number ONE

Depth Driller 4550

Depth Logger 4550

Bottom Logged Interval 4530

Top Log Interval 3500

Casing Driller 8 5/8" @ 895

Casing Logger 895

Bit Size 7 7/8

Type Fluid in Hole CHEMICAL MUD CHLORIDES 7700 PPM

Density / Viscosity 9.2/50

pH / Fluid Loss 11.0/8.4

Source of Sample FLOWLINE

Rm @ Meas. Temp .75 @ 64F

Rmf @ Meas. Temp .56 @ 64F

Rmc @ Meas. Temp .90 @ 64F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .39 @ 121F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 1111

Maximum Recorded Temperature 121F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By GUS PFANENSTIEL

Witnessed By KEITH REAVIS

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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

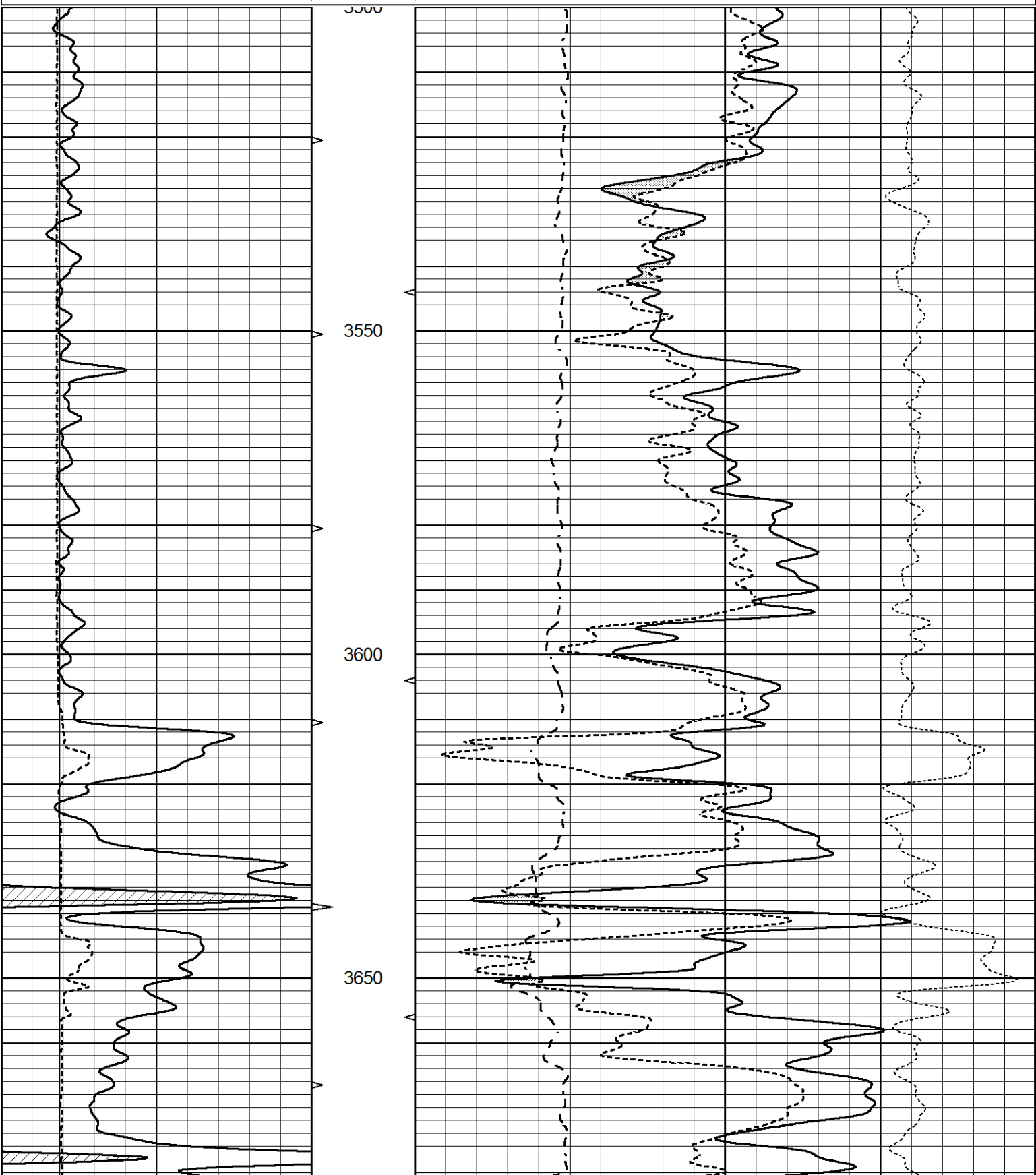
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
NORTH OF IUKA, BYERS BLACKTOP AND 281 GO 3 WEST TO 30 RD,
SOUTH 1.5, EAST INTO

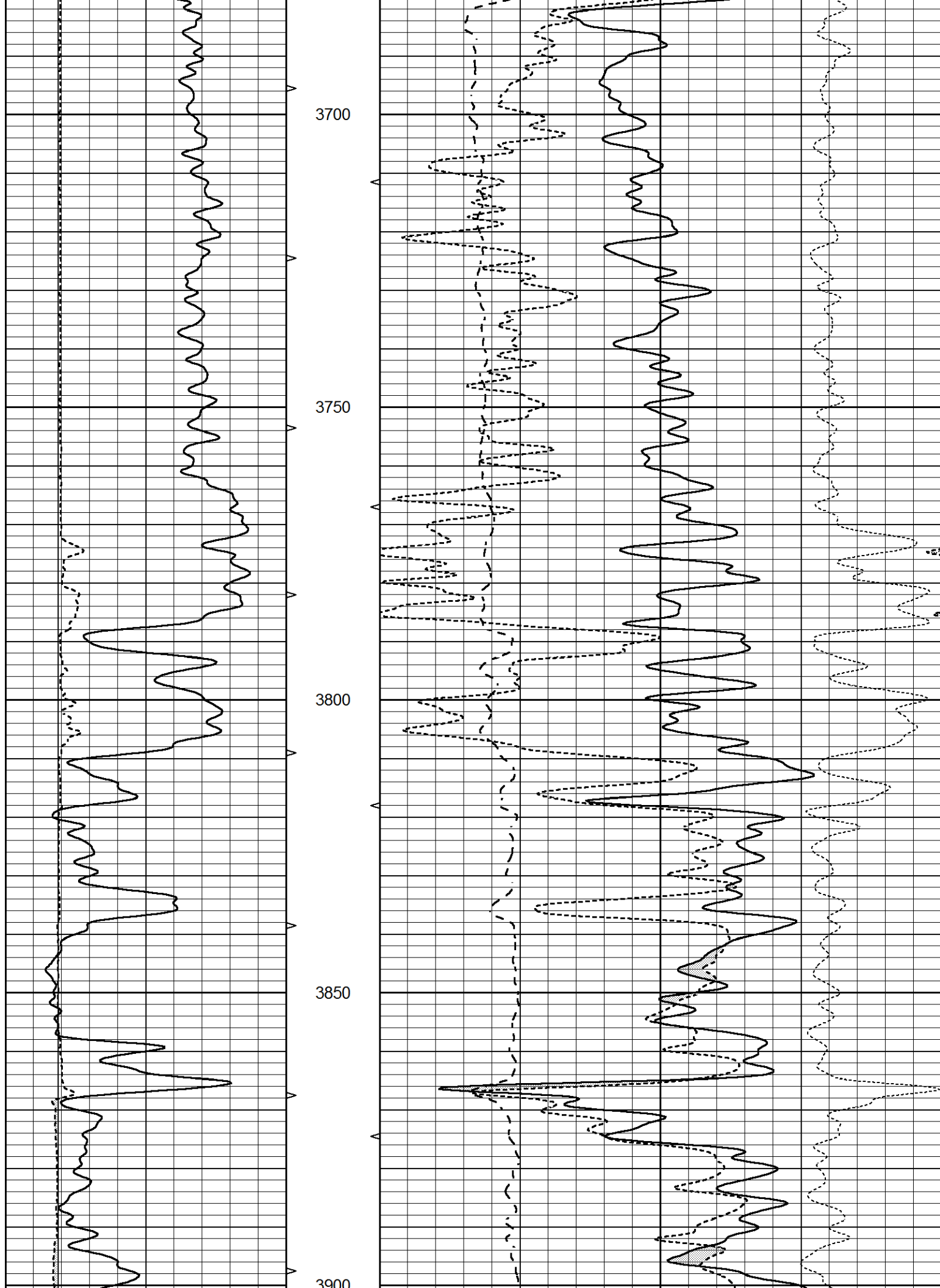


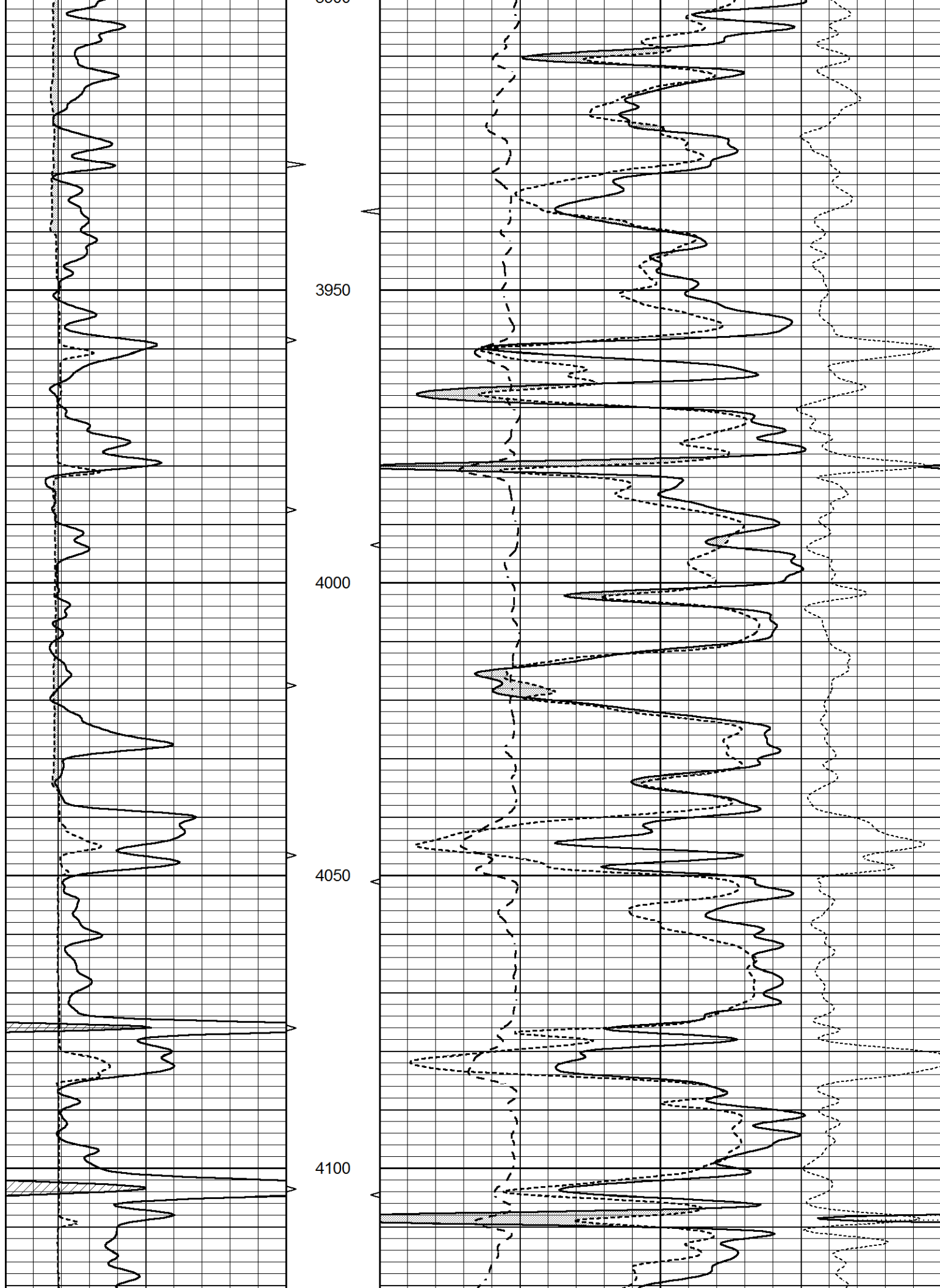
MAIN PASS

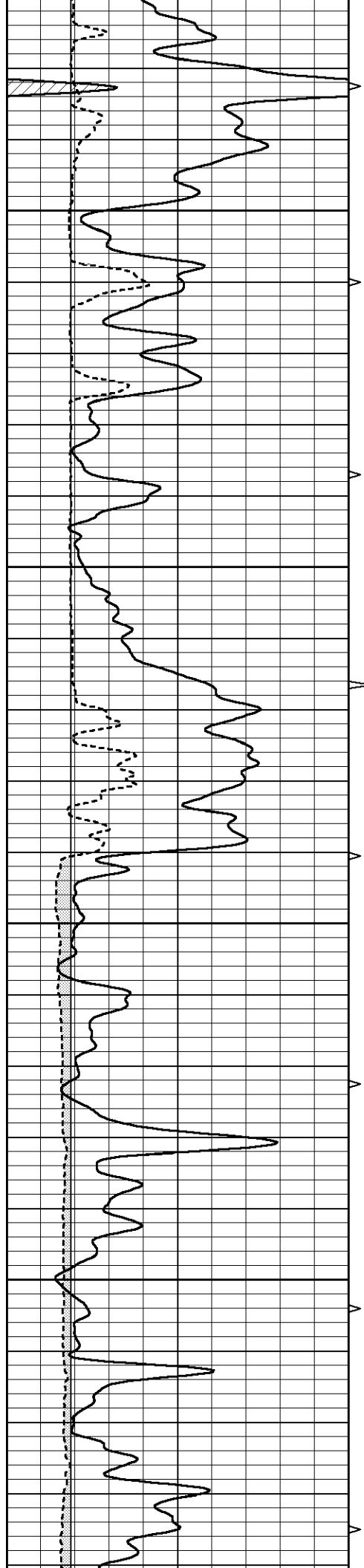
Database File	5868pe.db
Dataset Pathname	pass4.1
Presentation Format	_ldt_neu
Dataset Creation	Sat Oct 30 22:41:15 2021
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
			TBHV	0	PE	10
			0 (ft3)	10	-0.25	CORRECTION (g/cc)
					0	LTEN (lb)
						5000







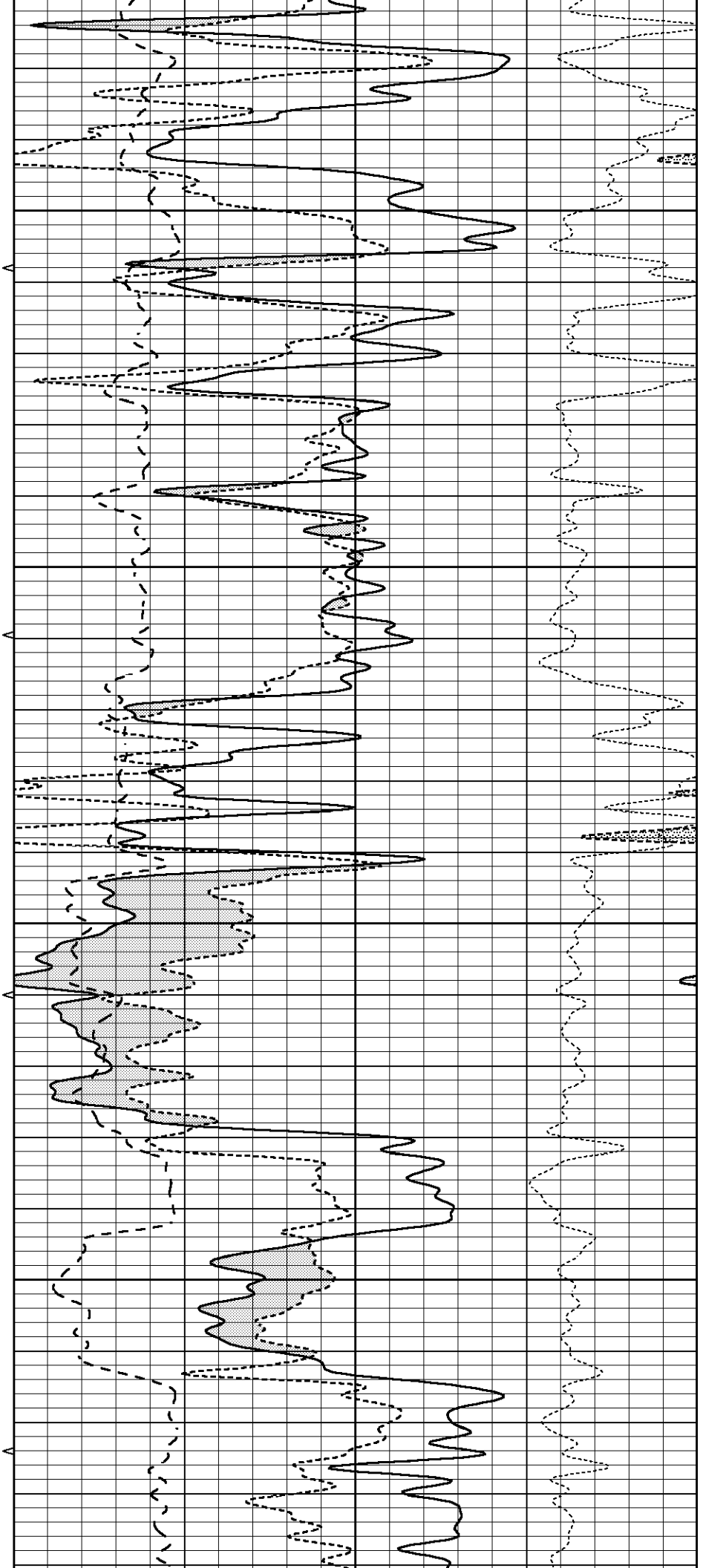


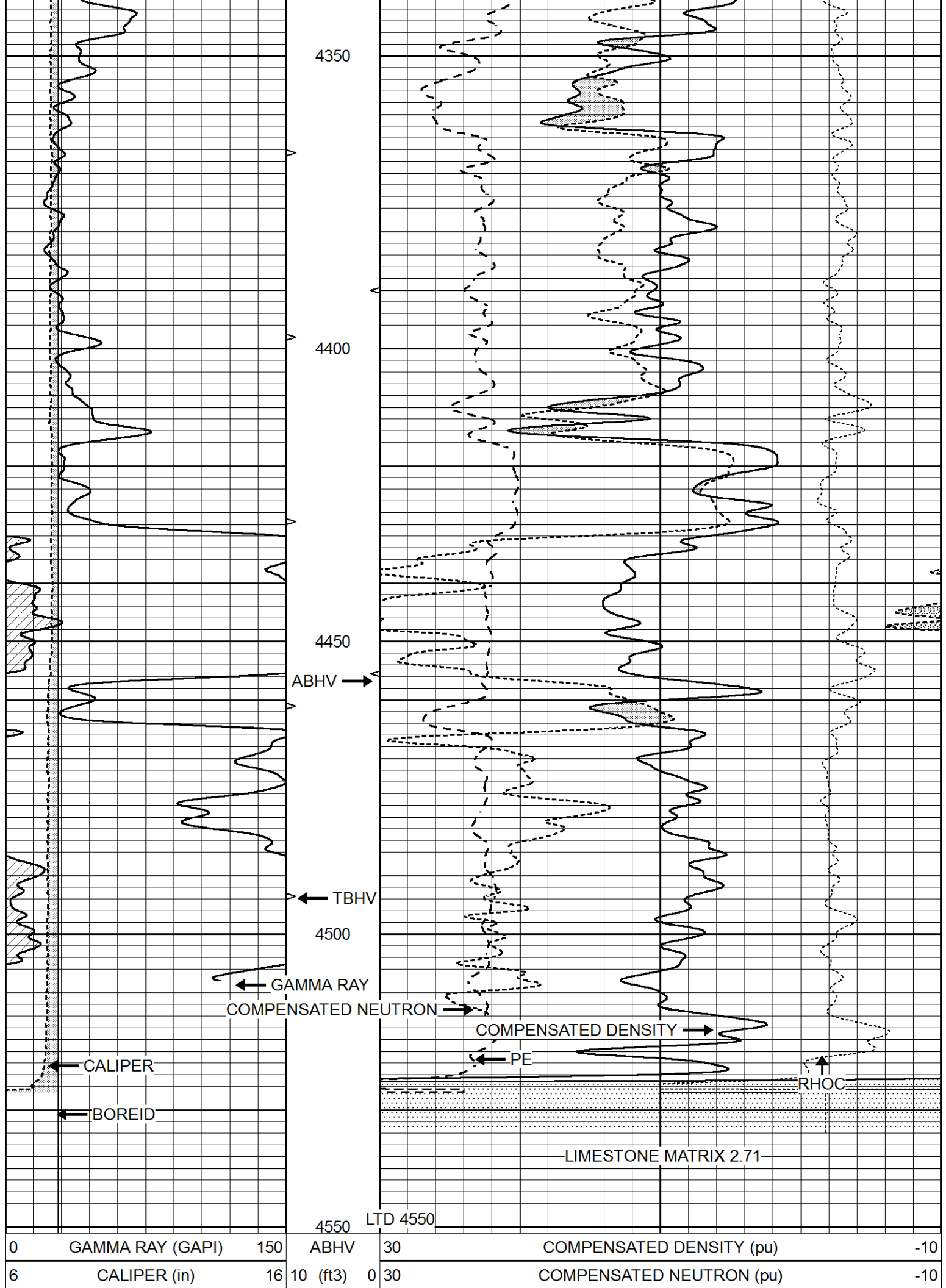
4150

4200

4250

4300





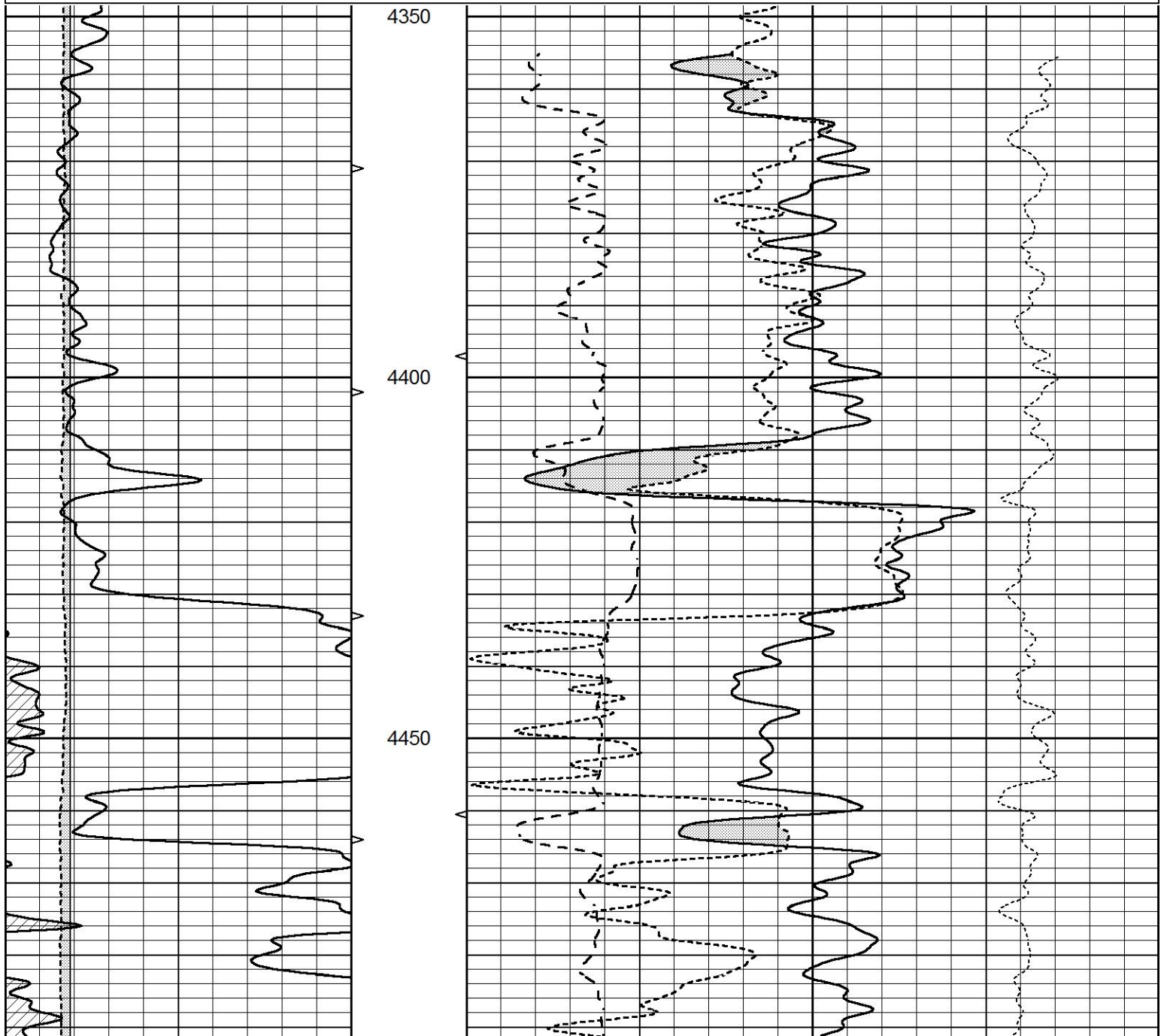
	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25
	0 (ft3) 10				0	LTEN (lb)	5000

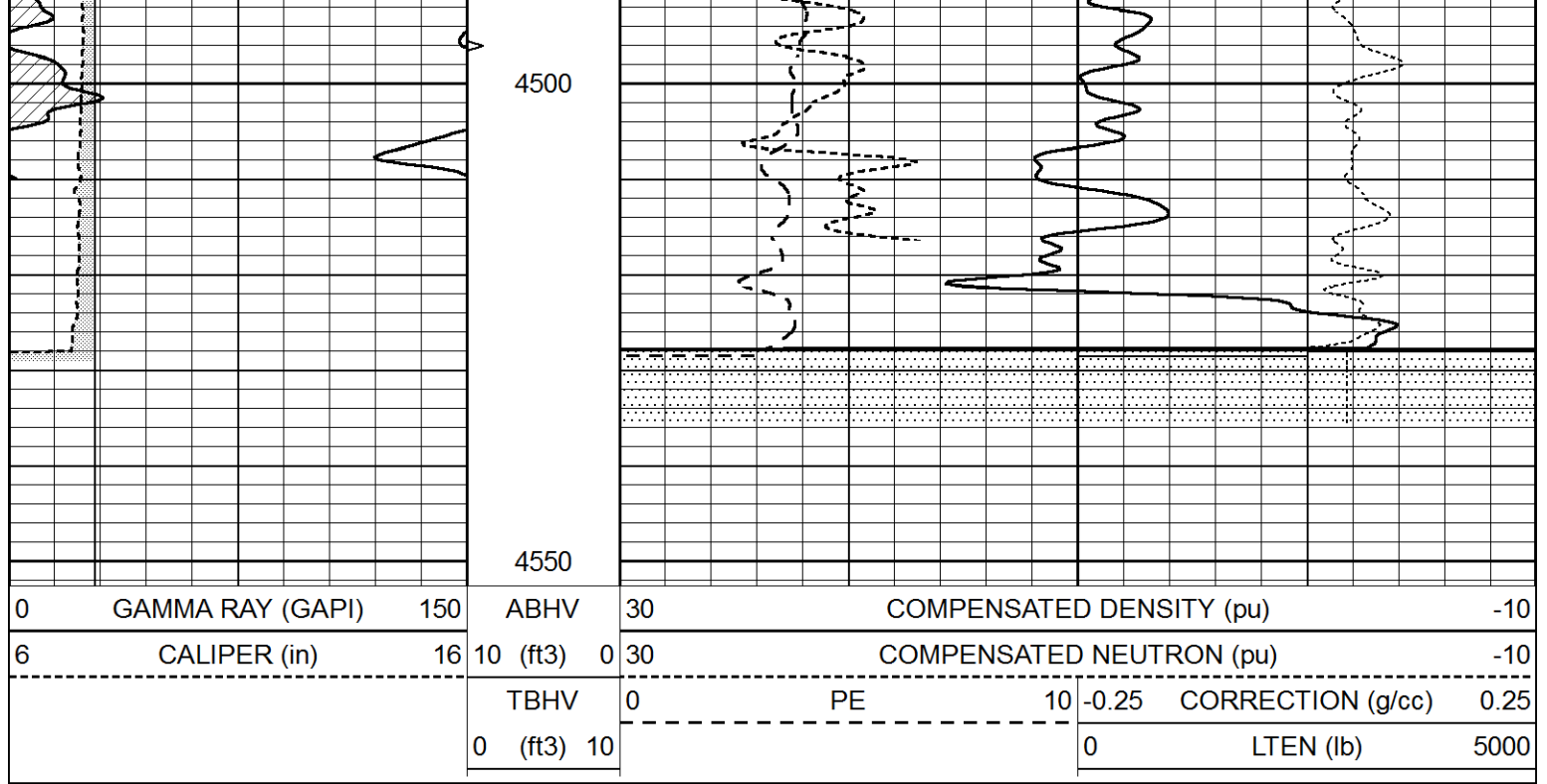


REPEAT SECTION

Database File 5868pe.db
 Dataset Pathname pass3.1
 Presentation Format _ldt_neu
 Dataset Creation Sat Oct 30 22:50:35 2021
 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				0	LTEN (lb)	5000





Calibration Report

Database File 5868pe.db
Dataset Pathname pass3.1
Dataset Creation Sat Oct 30 22:50:35 2021

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
Surface Cal Performed: Tue Feb 19 11:44:18 2019
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	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
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: 140703 Model: V4_10P Source Number: 74GBq-19								
Master Calibration			Performed: Wed Dec 02 12:04:44 2020					
	Background	Aluminum	Magnesium					
Window 1	595.38	5386.50	23898.92	cps				
Window 2	52.78	1248.21	5993.75	cps				
Window 4	251.36	1200.30	5155.55	cps				
Window 5	545.15	9066.30	17240.12	cps				
Window 6	43.35	1491.73	2929.24	cps				
Window 8	258.76	2917.82	5450.26	cps				
Bulk Density	-	2.6020	1.6830	g/cc				
Pe	-	3.0000	2.5070	b/e				
LS Alpha:	: -1.8726	SS Alpha:	: -0.7656	LS CPE:	: 1.0742			
LS Beta:	: 127345.0723	SS Beta:	: 20293.3834	SS CPE:	: 1.5427			
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 Dec 02 12:04:44 2020					
Results	Readings	References (in)						
Low	High	Low	High		Gain		Offset	
10178.8	13388.4	8.0	14.0		0.0		-10.6	
Before Survey Caliper Verification			Performed:					
	Reference	Reading						
Caliper (in)								
After Survey Caliper Verification			Performed:					

	Reference	Reading
Caliper (in)		
Compensated Neutron Calibration Report		
	Serial Number: Tool Model:	080621PMC 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