



DUAL INDUCTION
LOG

Company RUSSELL OIL, INC.		Company RUSSELL OIL, INC.	
Well NUSS-DIETZ UNIT #1-33		Well NUSS-DIETZ UNIT #1-33	
Field NUSS		Field NUSS	
County RUSSELL		County RUSSELL	
State KANSAS		State KANSAS	
Location:		API # : 15-167-24121-00-00	
Permanent Datum SEC 33 TWP 15S RGE 14W		Other Services CDL/CNL MEL	
Log Measured From 388' FNL & 264' FEL SE - NE - NE - NW		Elevation K.B. 1905 D.F. 1903 G.L. 1895	
Drilling Measured From KELLY BUSHING			
Date	6/8/22		
Run Number	ONE		
Depth Driller	3460		
Depth Logger	3462		
Bottom Logged Interval	3460		
Top Log Interval	00		
Casing Driller	8 5/8" @ 903		
Casing Logger	903		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4/55		
pH / Fluid Loss	10.0/6.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.900@80F		
Rmf @ Meas. Temp	.675@80F		
Rmc @ Meas. Temp	1.08@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.649@111F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	8:00 P.M.		
Maximum Recorded Temperature	111F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBEN		
Witnessed By	KITT NOAH		

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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

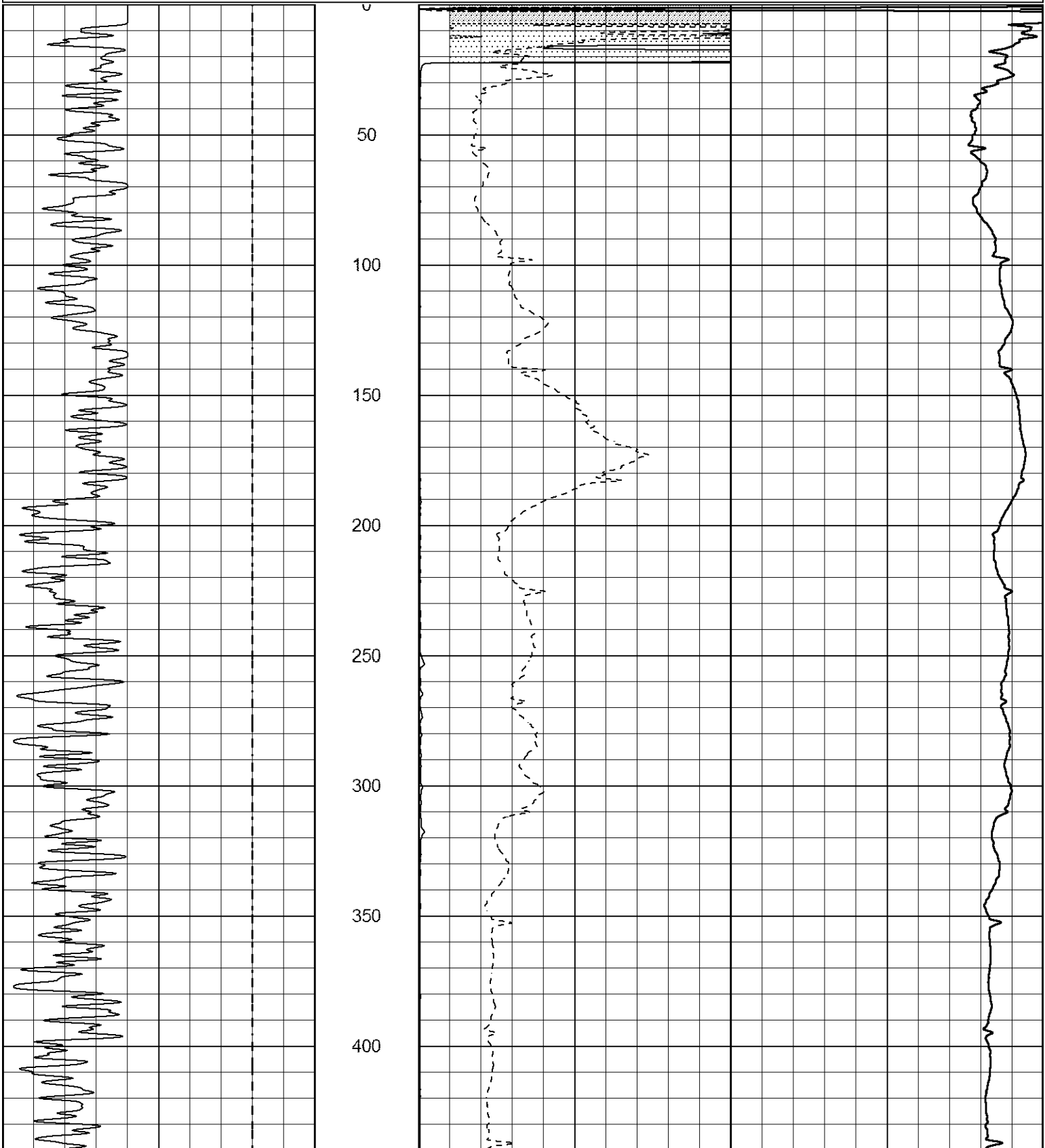
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
ONE MILE EAST OF MILBERGER, KS. ON MICHAELIS ROAD, SOUTH INTO

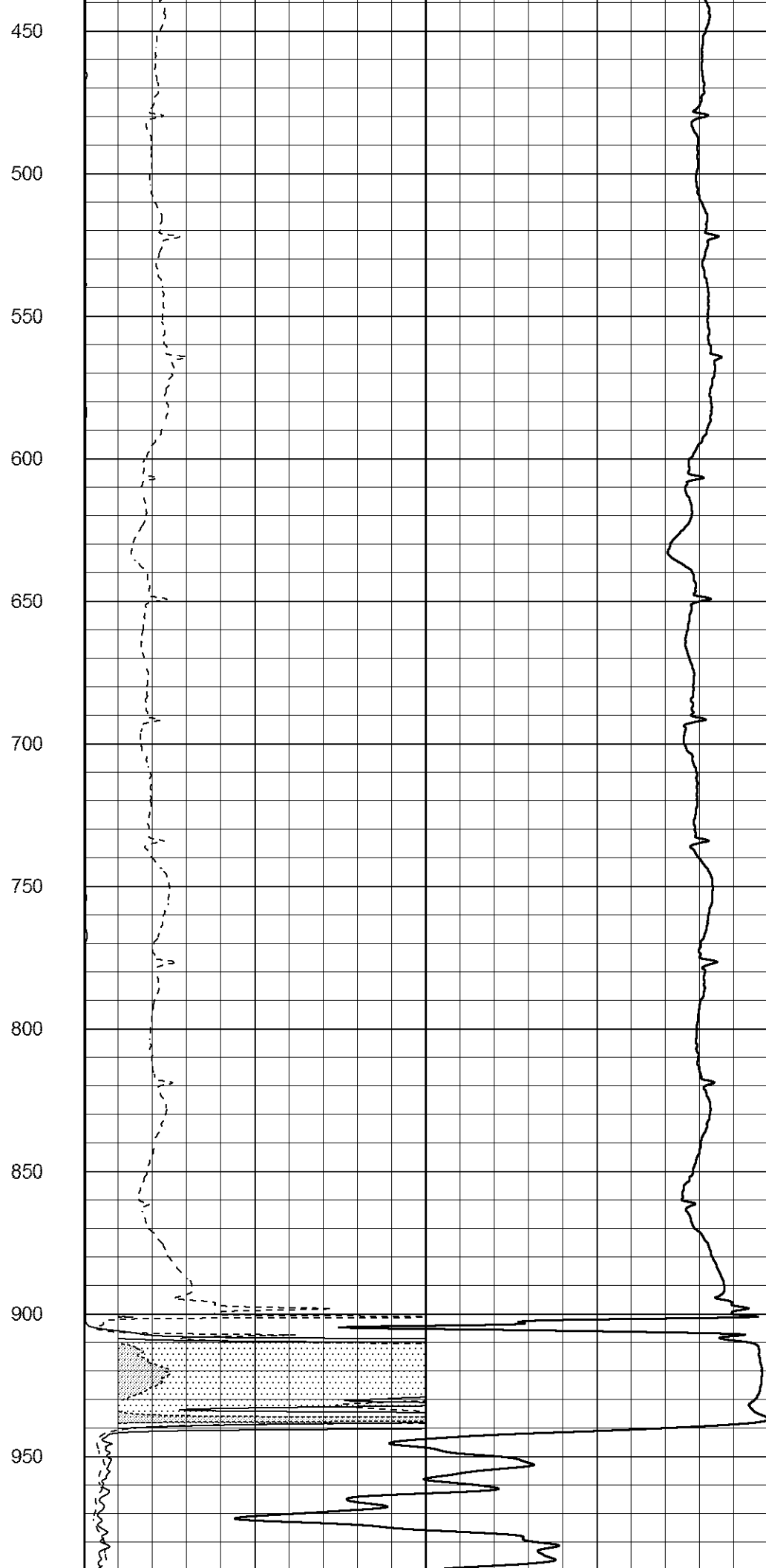
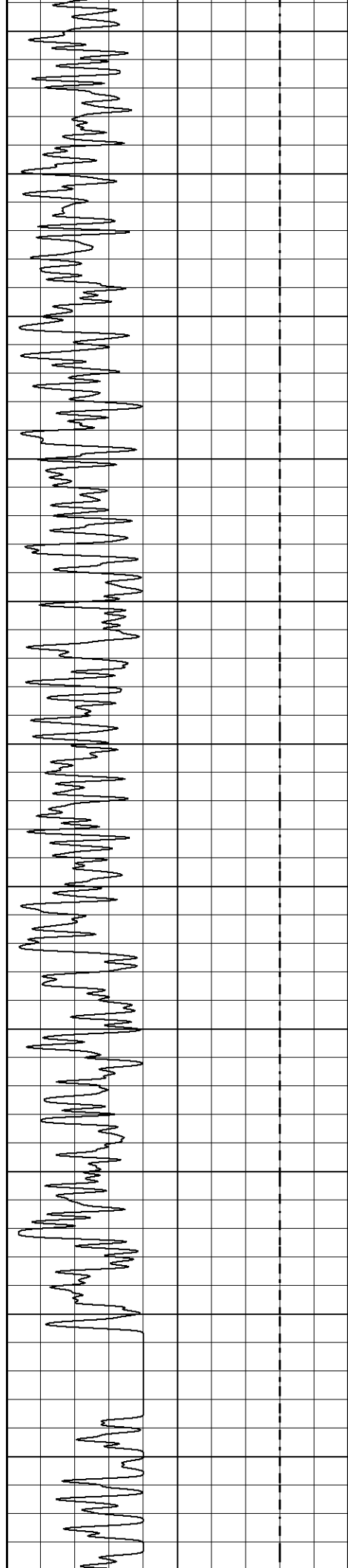


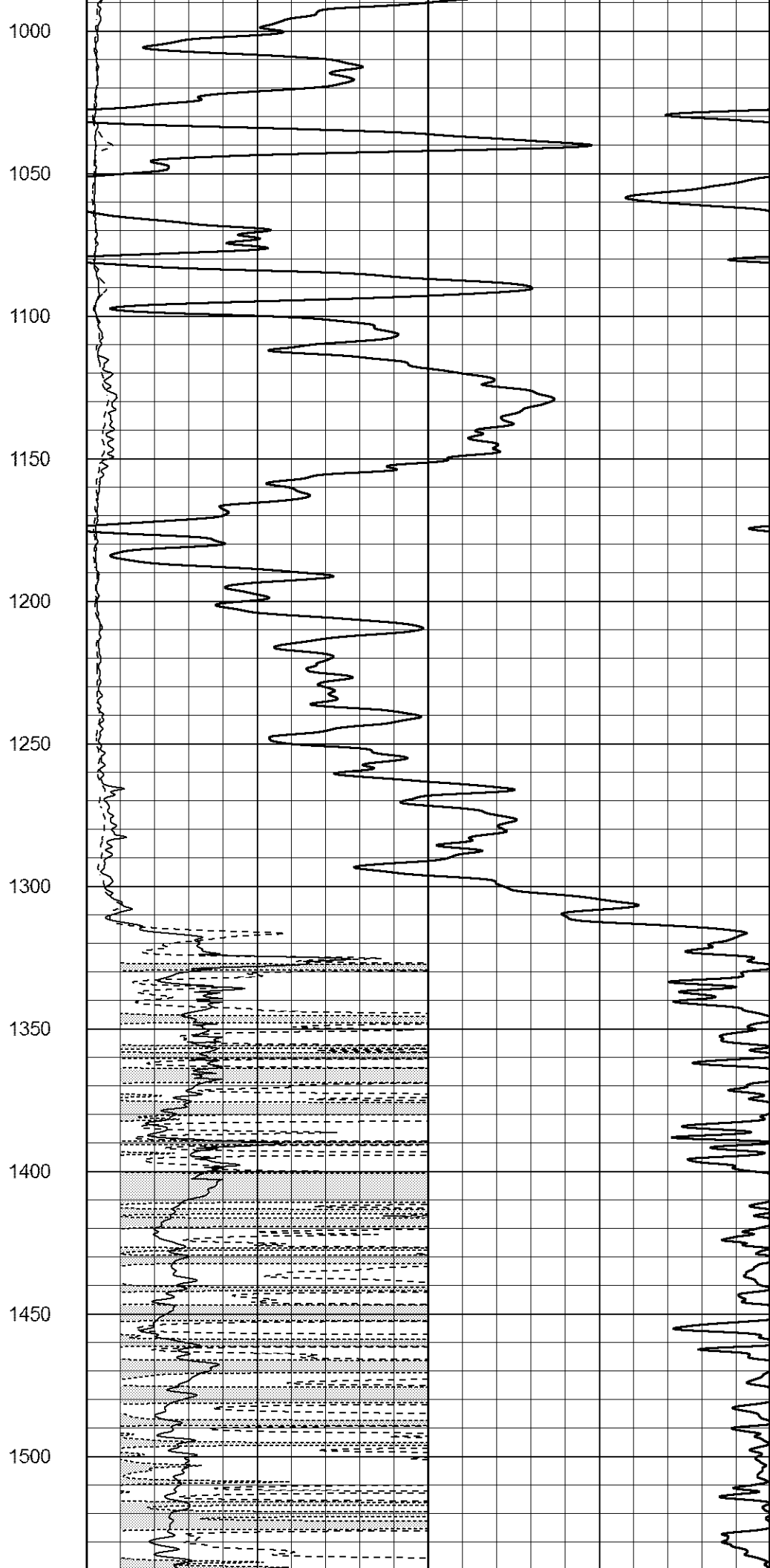
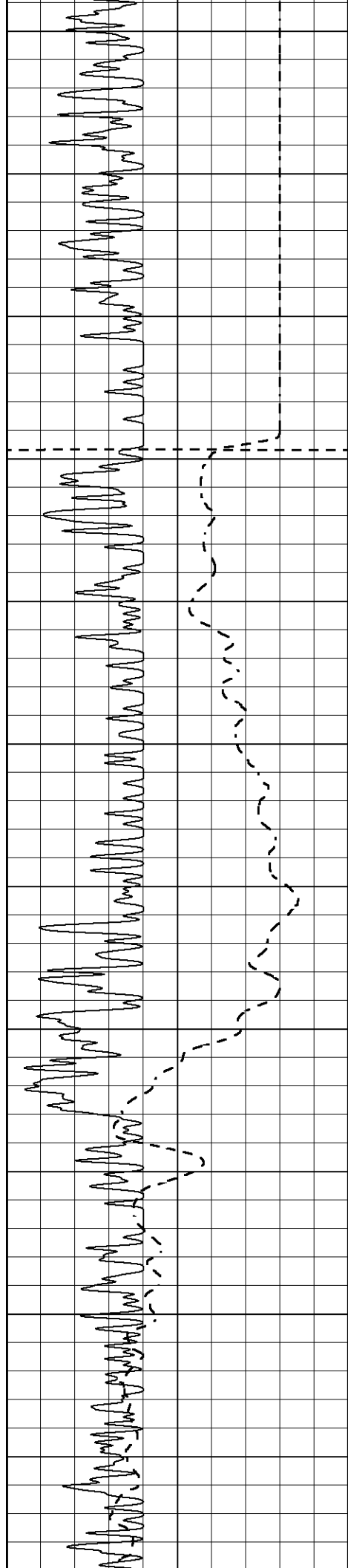
MAIN SECTION

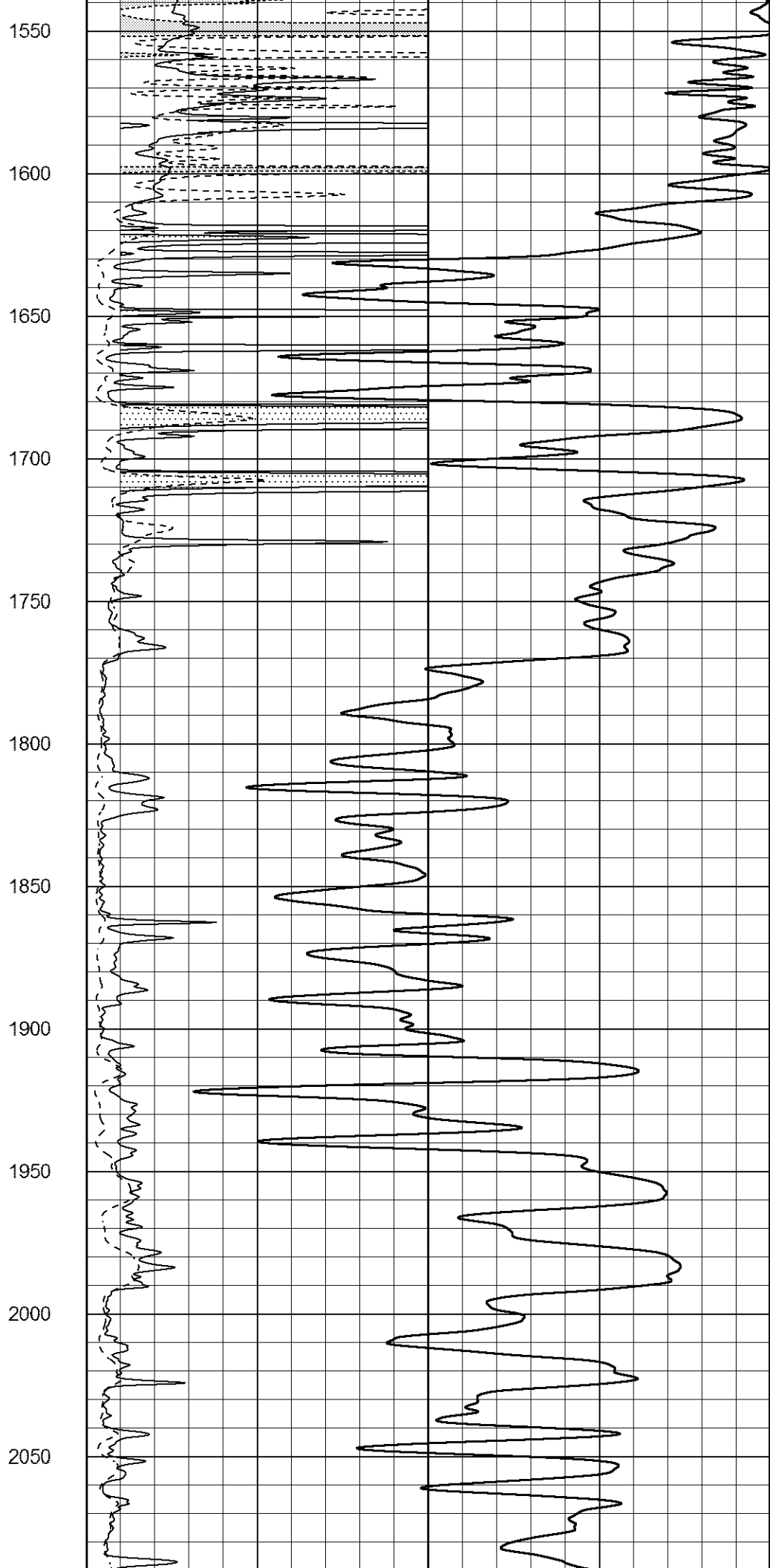
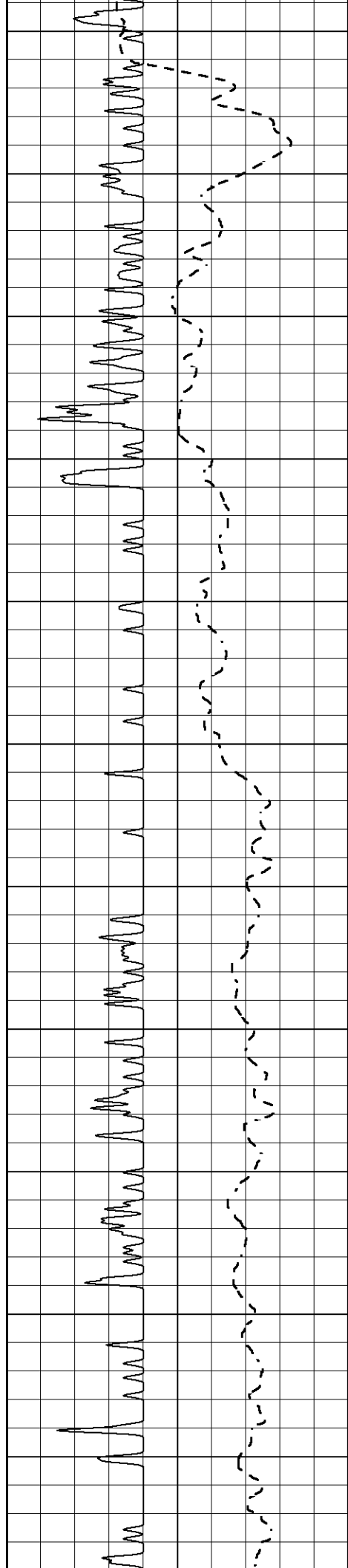
Database File	6539ddn.db
Dataset Pathname	pass4.3M
Presentation Format	_dil2
Dataset Creation	Wed Jun 08 22:15:48 2022
Charted by	Depth in Feet scaled 1:600

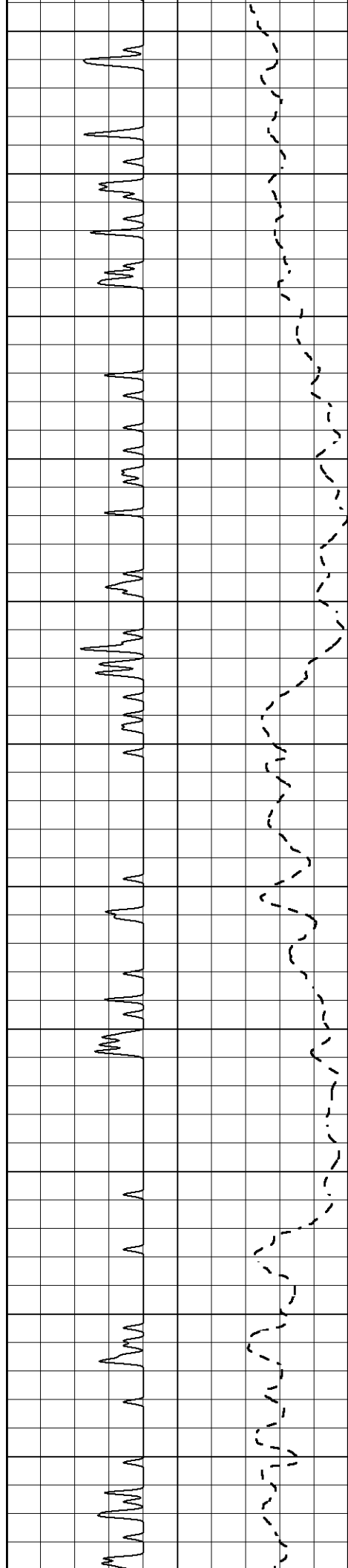
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500











2100

2150

2200

2250

2300

2350

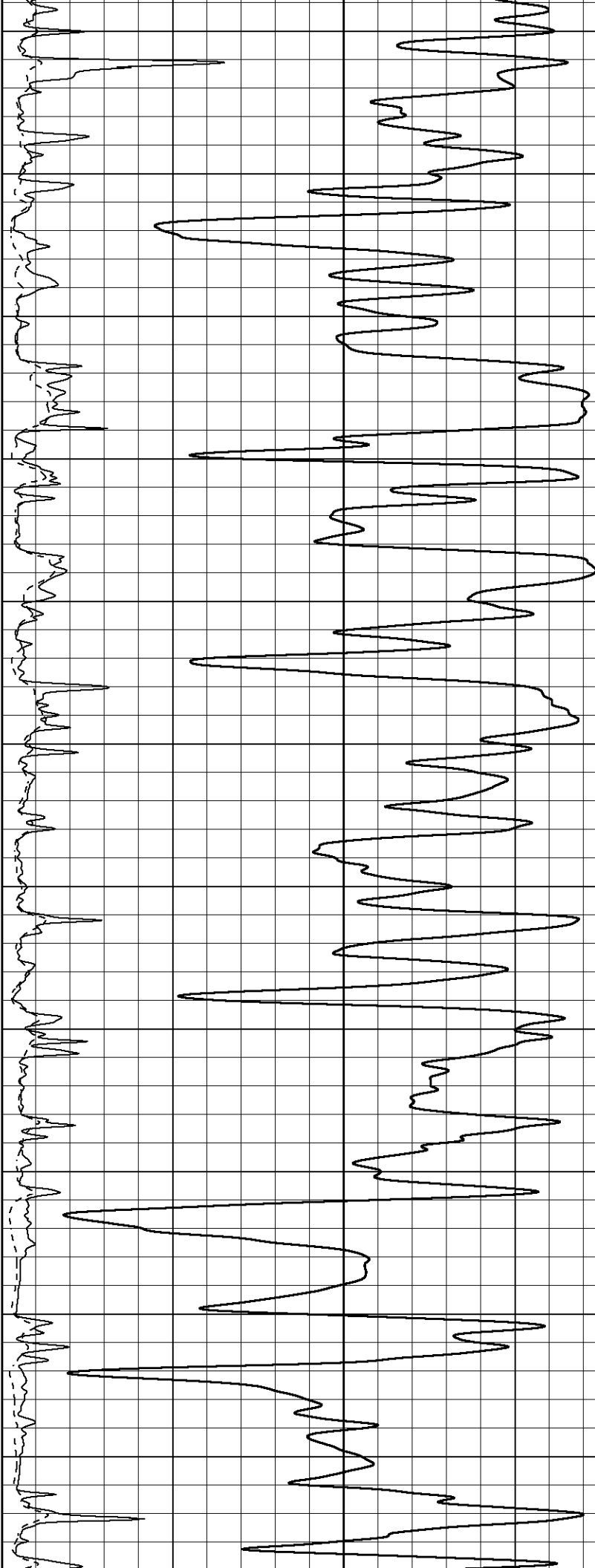
2400

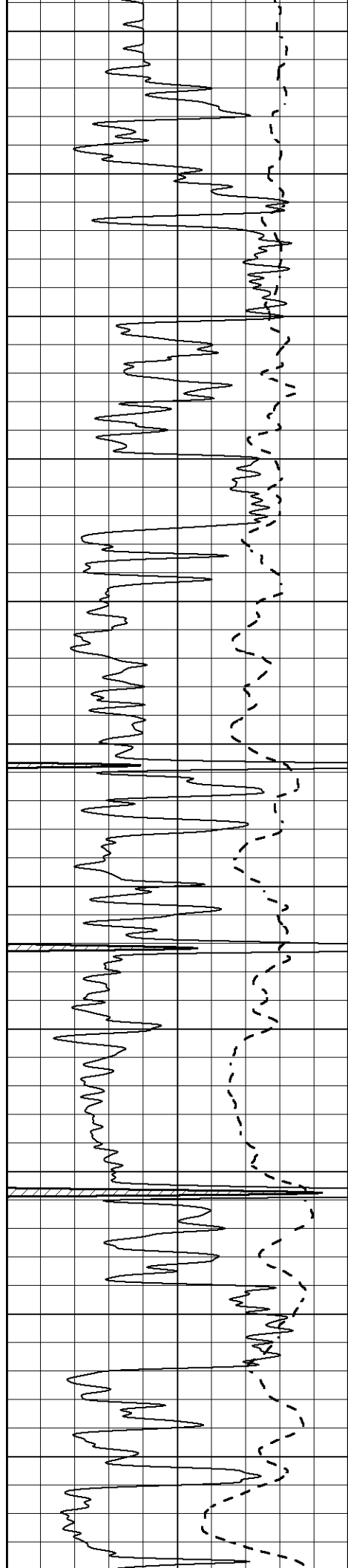
2450

2500

2550

2600





2650

2700

2750

2800

2850

2900

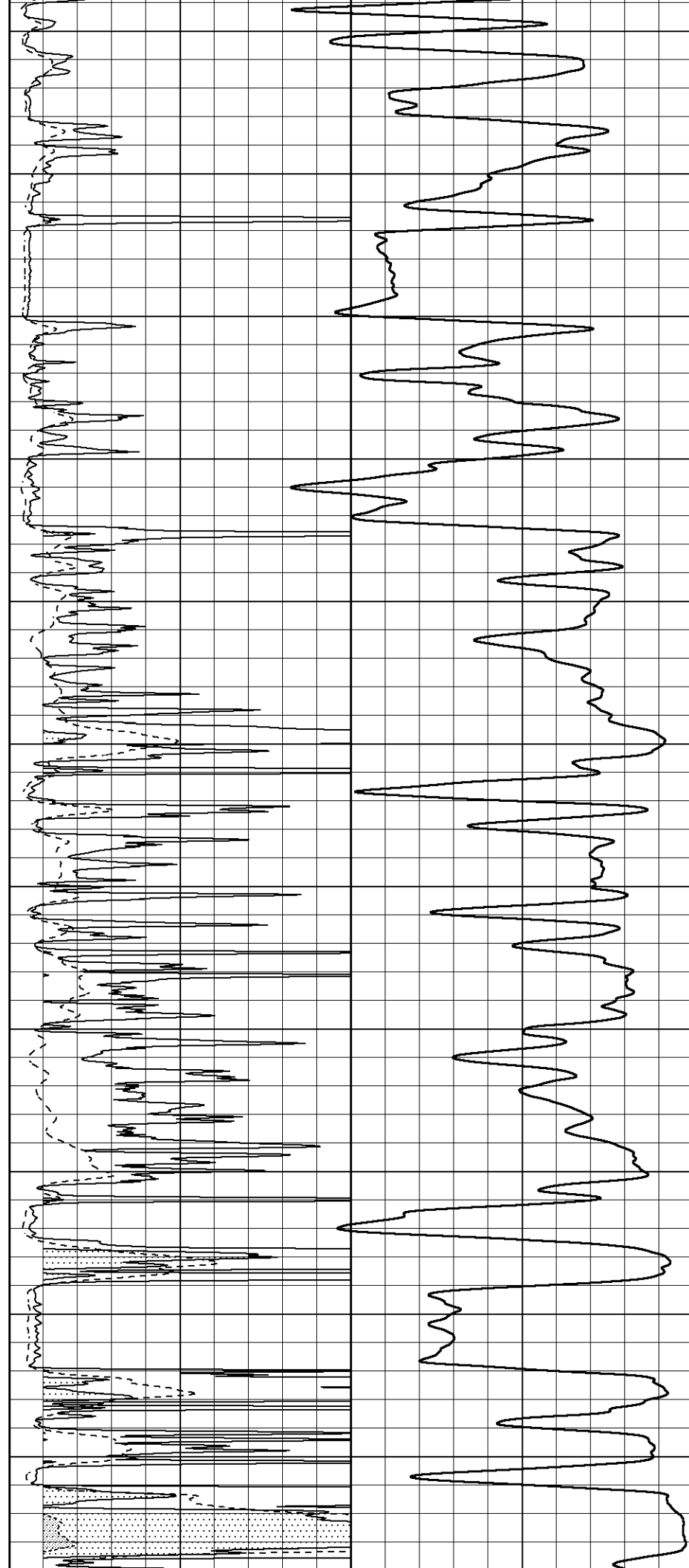
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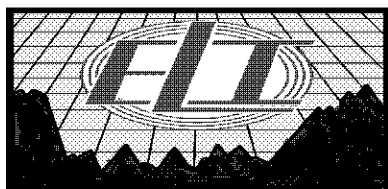
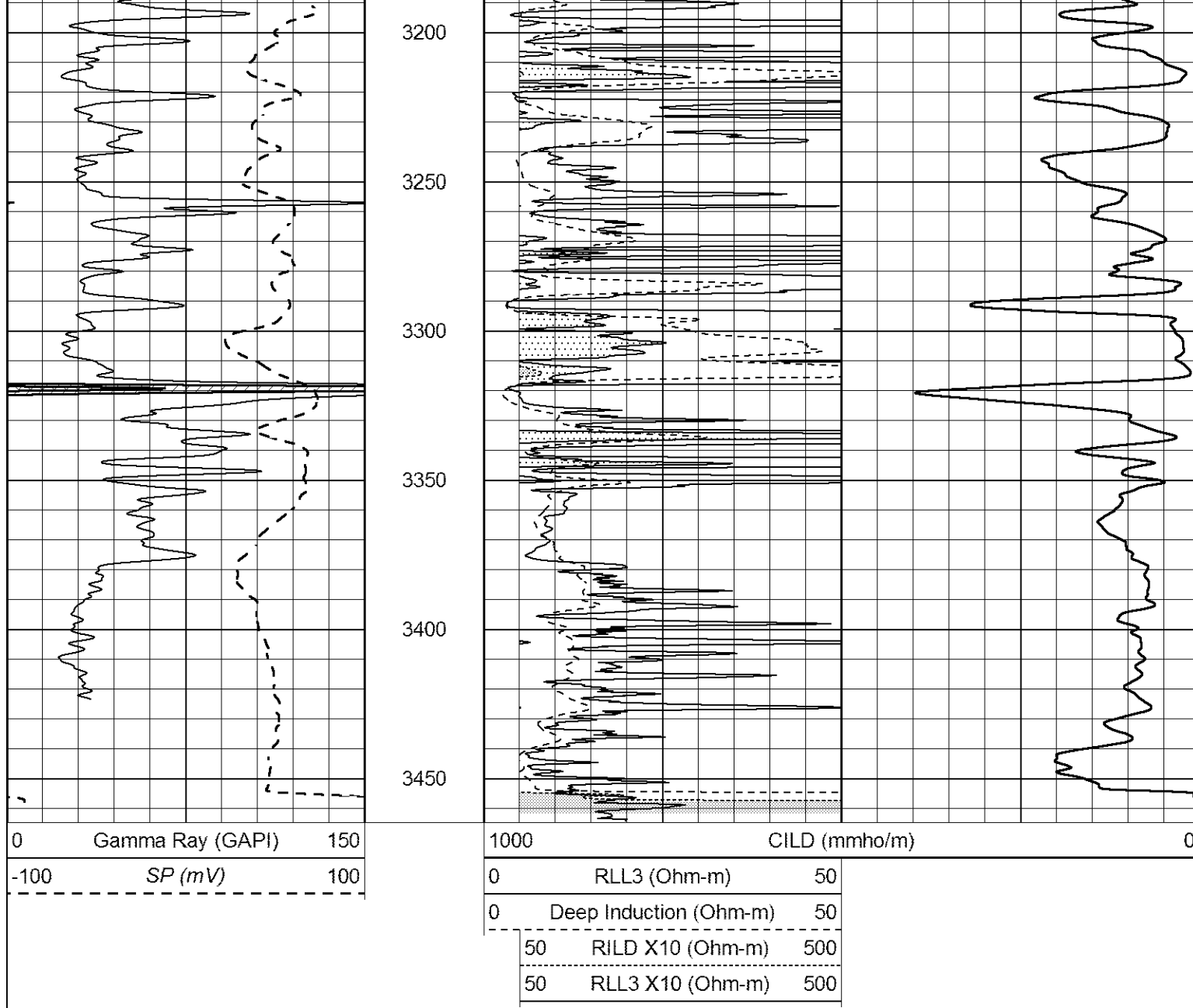
3000

3050

3100

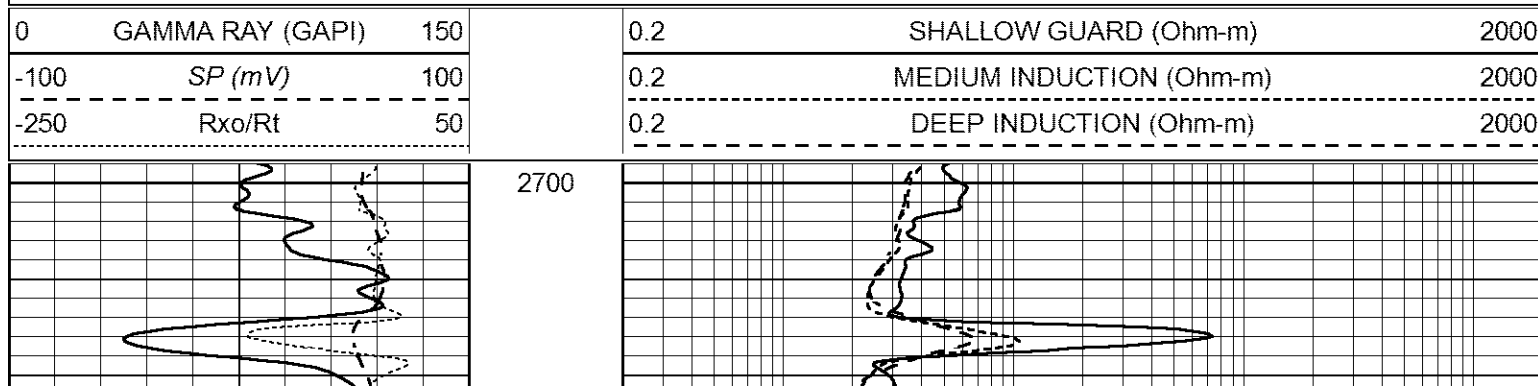
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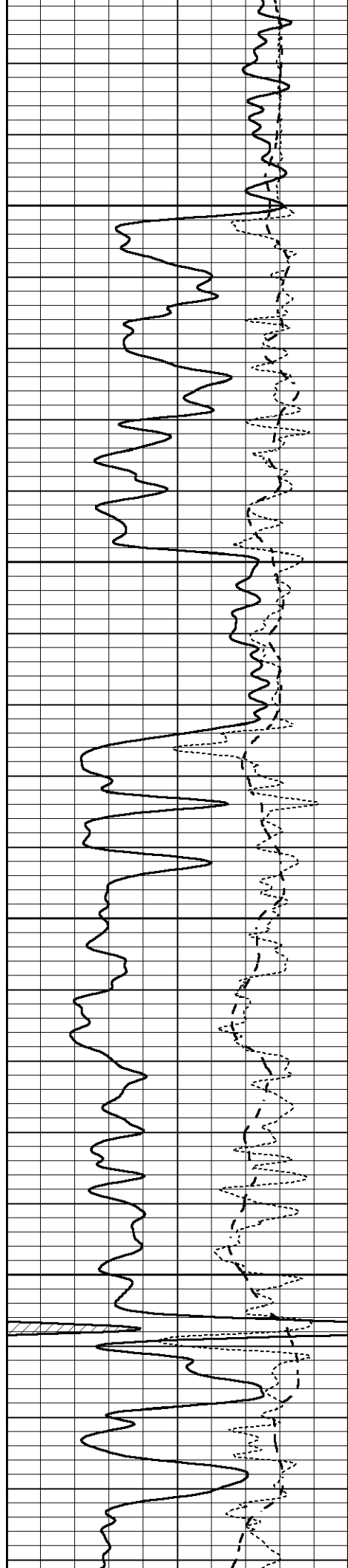




MAIN SECTION

Database File 6539ddn.db
 Dataset Pathname pass4.3M
 Presentation Format _dil
 Dataset Creation Wed Jun 08 22:15:48 2022
 Charted by Depth in Feet scaled 1:240



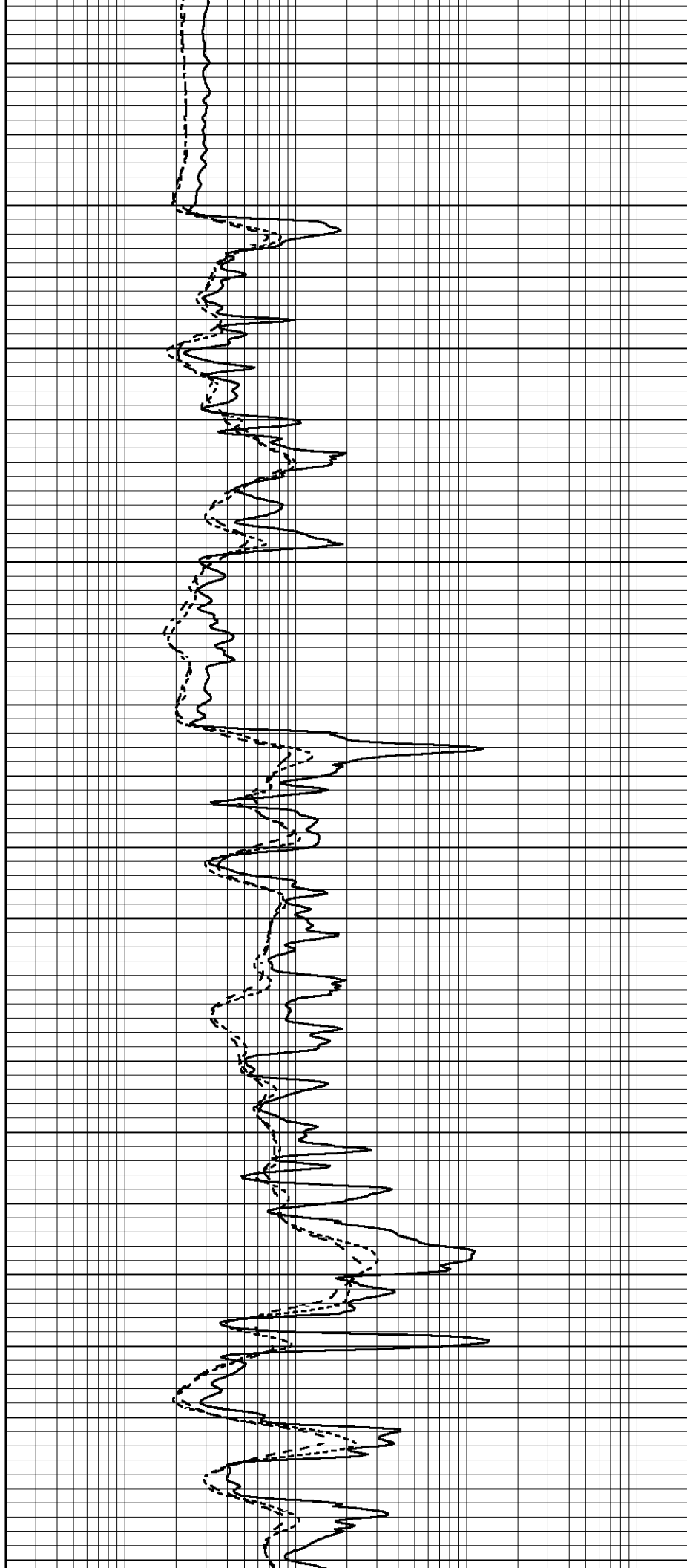


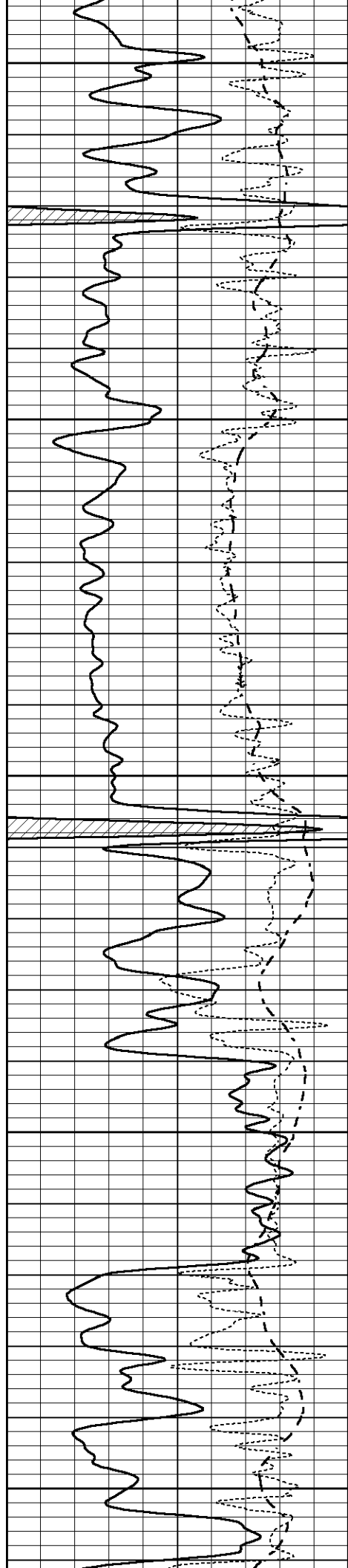
2750

2800

2850

2900





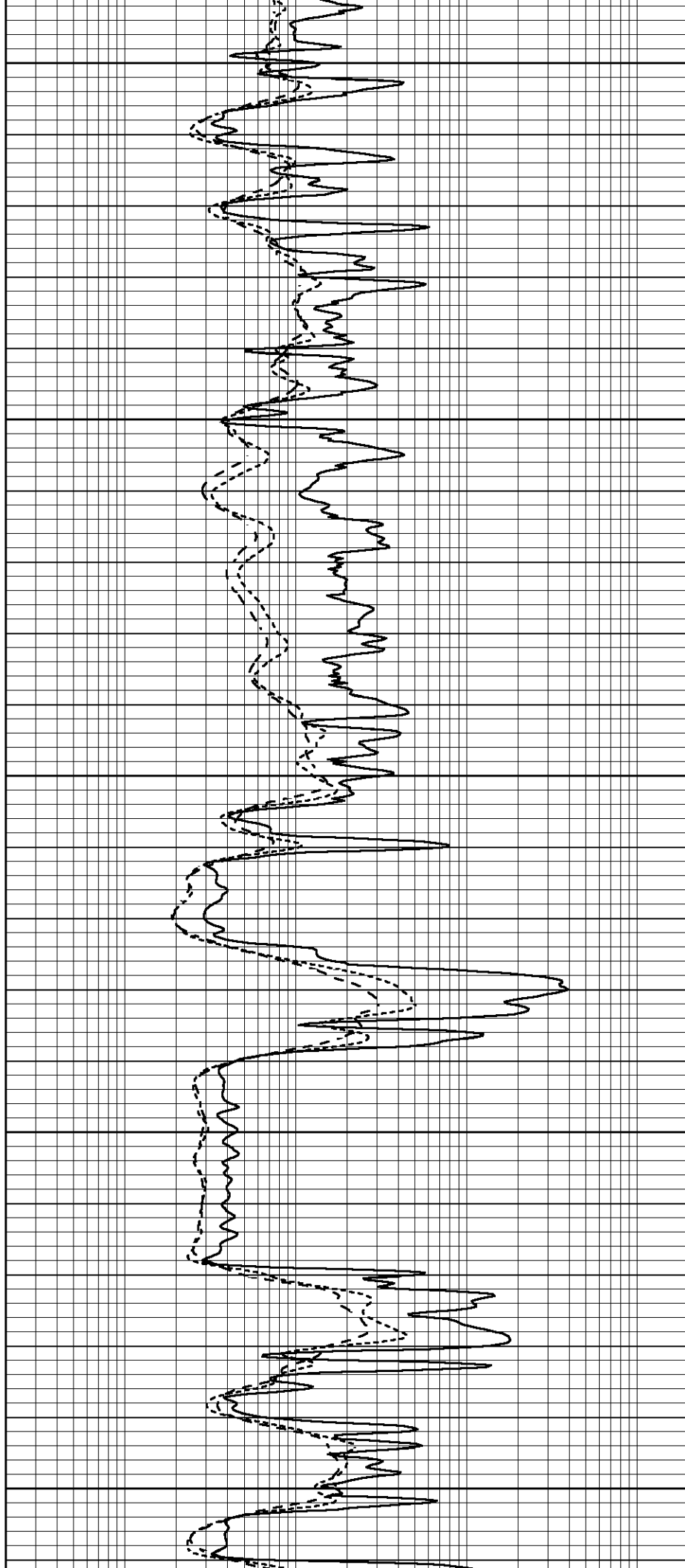
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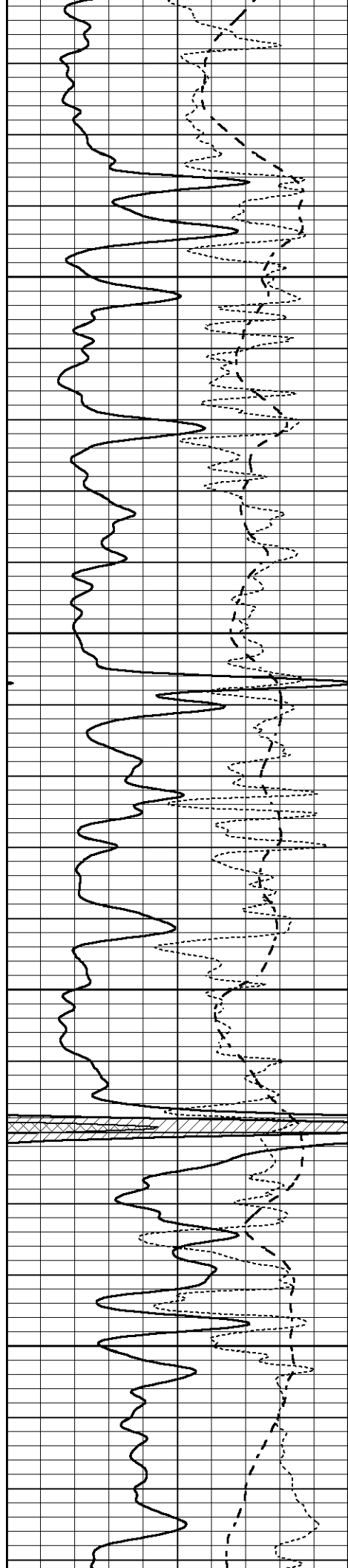
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3050

3100

3150



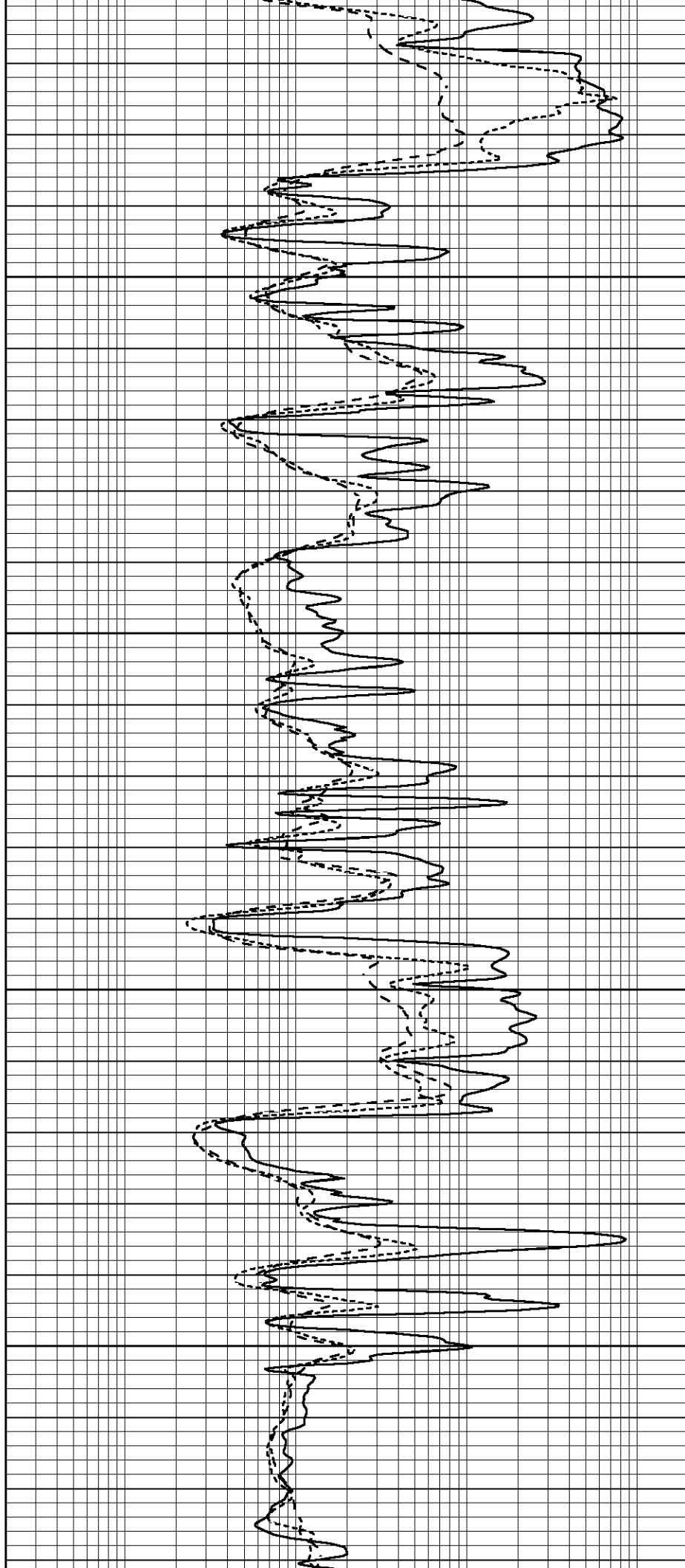


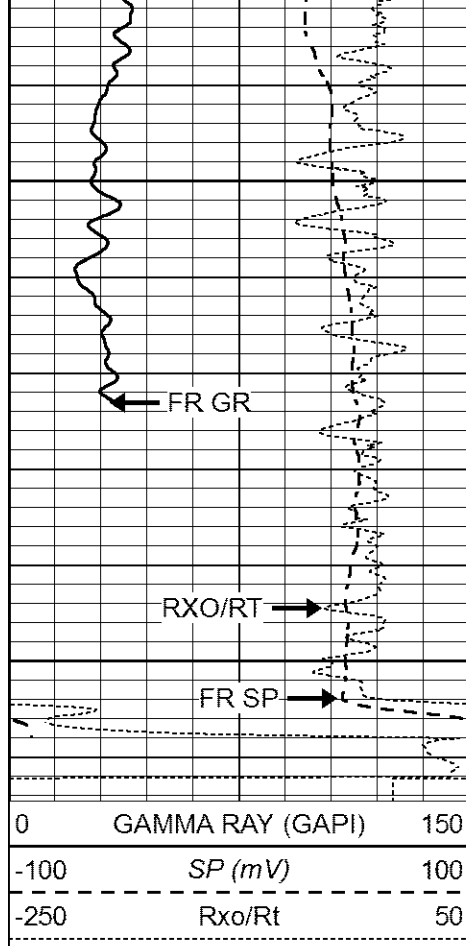
3200

3250

3300

3350

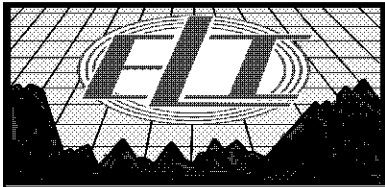
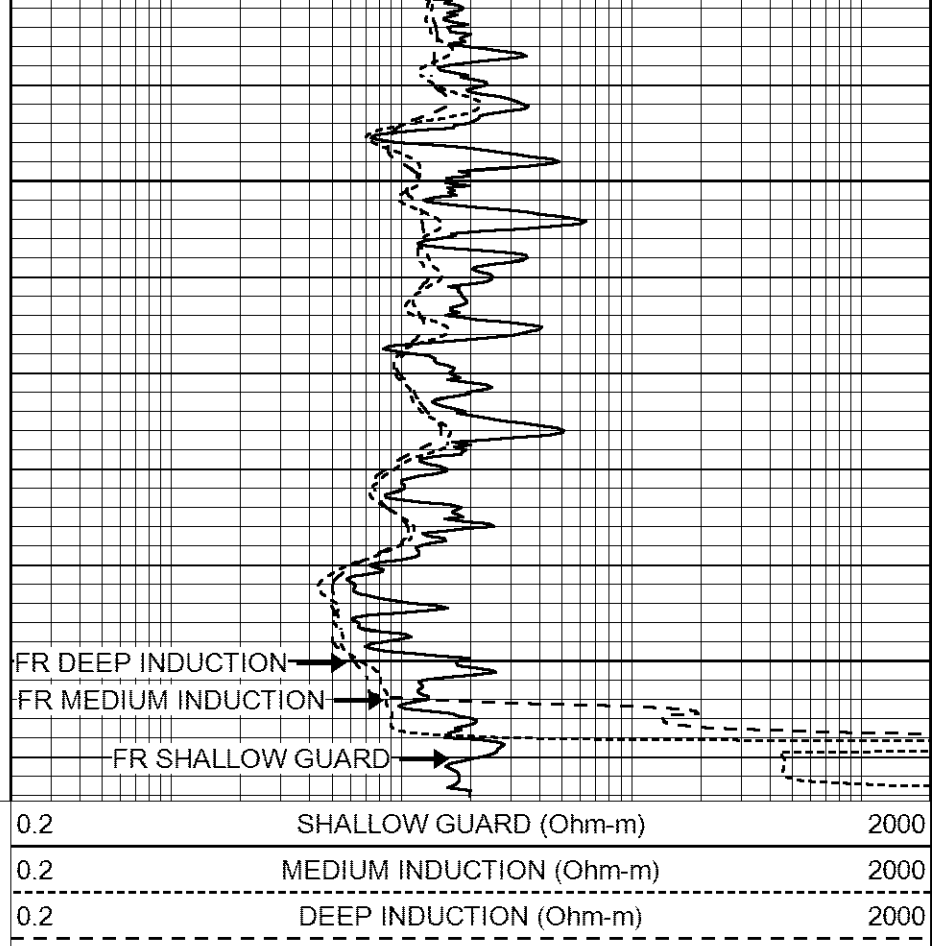




3400

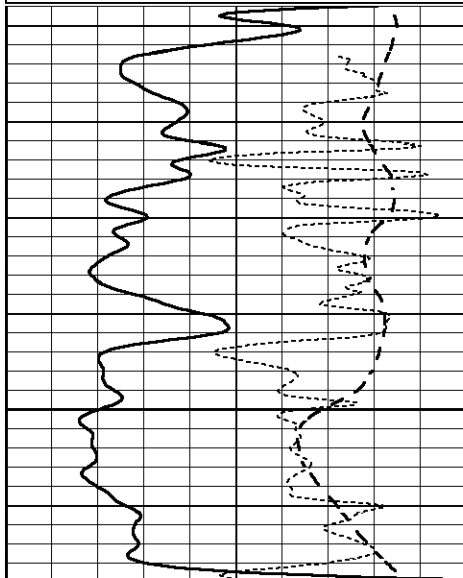
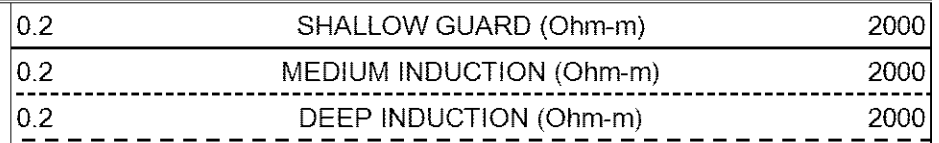
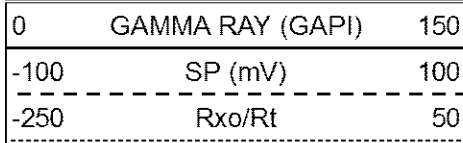
3450

LTD 3462

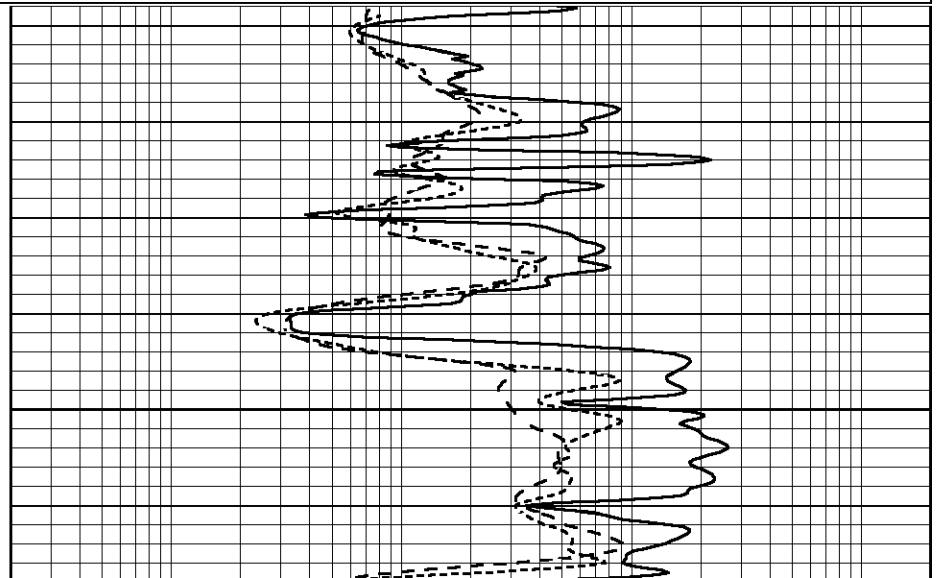


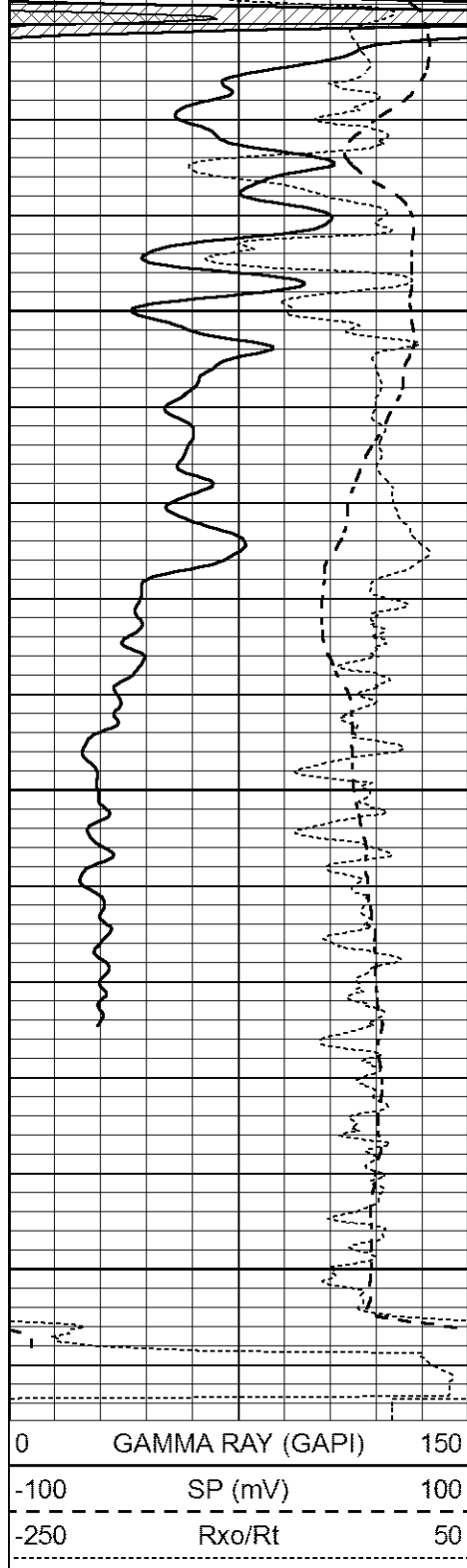
REPEAT SECTION

Database File 6539ddn.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Wed Jun 08 22:21:17 2022
 Charted by Depth in Feet scaled 1:240



3300

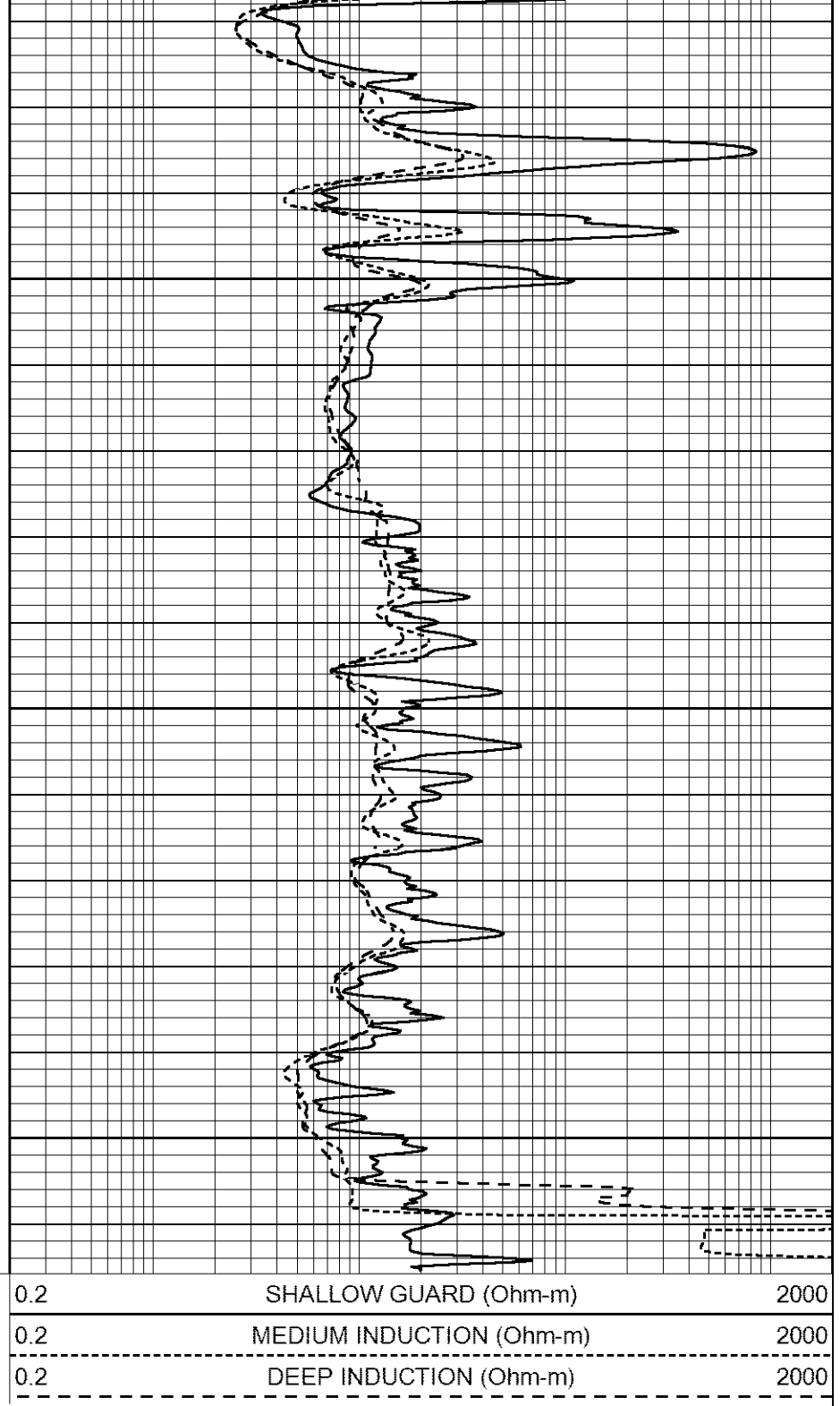




3350

3400

3450



Calibration Report

Database File 6539ddn.db
 Dataset Pathname pass4.3M
 Dataset Creation Wed Jun 08 22:15:48 2022

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Sun May 15 19:17:36 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	-2.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	-8.500
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: Mon May 23 14:22:47 2022			
	Background	Aluminum	Magnesium					
Window 1	511.07	5437.36	23664.68	cps				
Window 2	40.76	1220.39	5745.34	cps				
Window 4	223.73	1233.64	5301.27	cps				
Window 5	531.57	7878.13	15405.81	cps				
Window 6	48.52	1245.17	2497.97	cps				
Window 8	246.02	2578.14	4974.07	cps				
Bulk Density	-	2.6020	1.6830	g/cc				
Pe	-	3.0000	2.5070	b/e				
LS Alpha:	: -1.8413	SS Alpha:	: -0.8034	LS CPE:		: 1.1579		
LS Beta:	: 124864.8423	SS Beta:	: 19537.1506	SS CPE:		: 1.6371		

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			
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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: Mon May 23 14:22:47 2022
Results	Readings	References (in)
Low	High	Low High Gain Offset
8210.8	12139.3	7.0 14.0 0.0 -7.3
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:	7	
Tool Model:	Probe1	
Performed:	Thu May 26 08:56:46 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps