DUAL INDUCTION LOG

Company MULL DRILLING COMPANY, INC.
Well BBT #1-25
Field WHITNEY
County GOVE
State KANSAS

Company MULL DRILLING COMPANY, INC.
Well BBT #1-25
Field WHITNEY
County GOVE State KANSAS

Location: API # : 15-063-22414-0000
1192' FNL & 727' FWL
SW - SE - NW - NW
SEC 25 TWP 15S RGE 27W

Other Services
CDL/CNL/PE
MEL/SON

Permanent Datum GROUND LEVEL Elevation 2451
Log Measured From KELLY BUSHING 7' A.G.L
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2458
D.F. 2456
G.L. 2451

Date	8/16/22			
Run Number	ONE			
Depth Driller	4455			
Depth Logger	4457			
Bottom Logged Interval	4455			
Top Log Interval	00			
Casing Driller	8 5/8" @ 263			
Casing Logger	263			
Bit Size	7 7/8			
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5800 PPM		
Density / Viscosity	9.2/54			
pH / Fluid Loss	10.0/6.0			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	1.00 @ 75F			
Rmf @ Meas. Temp	.750 @ 75F			
Rmc @ Meas. Temp	1.20 @ 75F			
Source of Rmf / Rmc	MEASUREMENT			
Rm @ BHT	.620 @ 121F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom	3:00 P.M.			
Maximum Recorded Temperature	121F			
Equipment Number	3802			
Location	HAYS, KANSAS			
Recorded By	COLE ROBBEN			
Witnessed By	BLAKE MILLER			

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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.

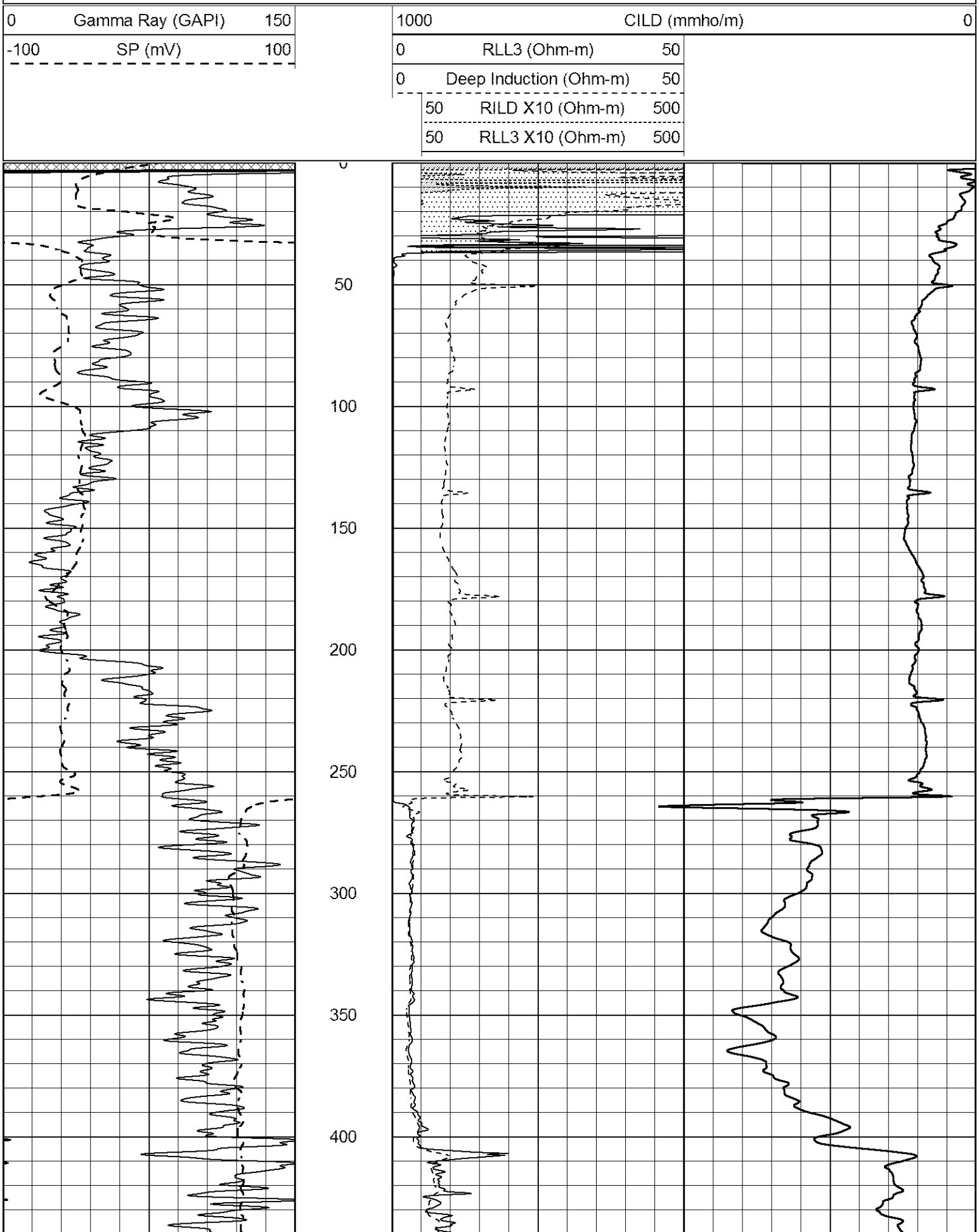
Comments

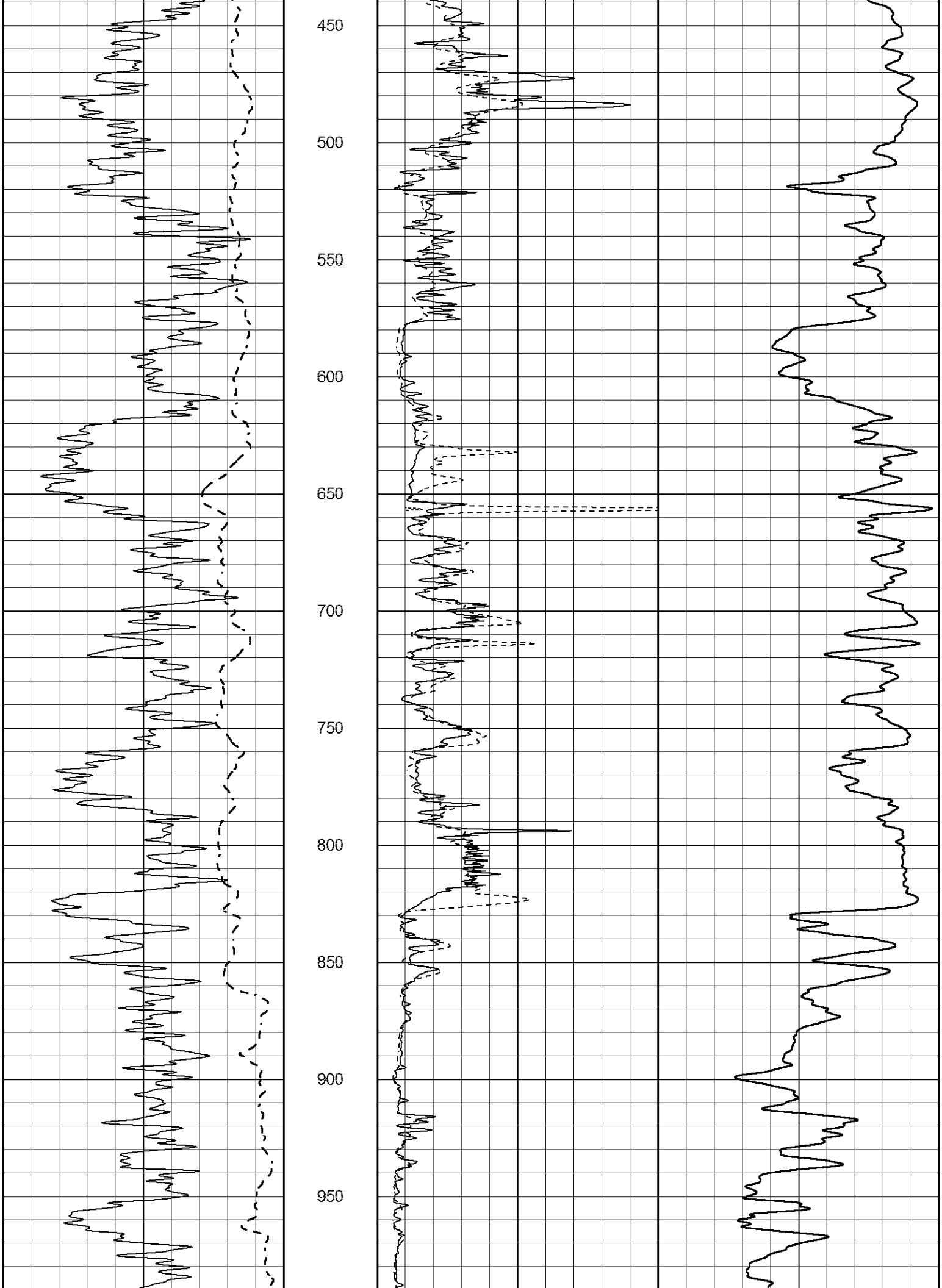
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395

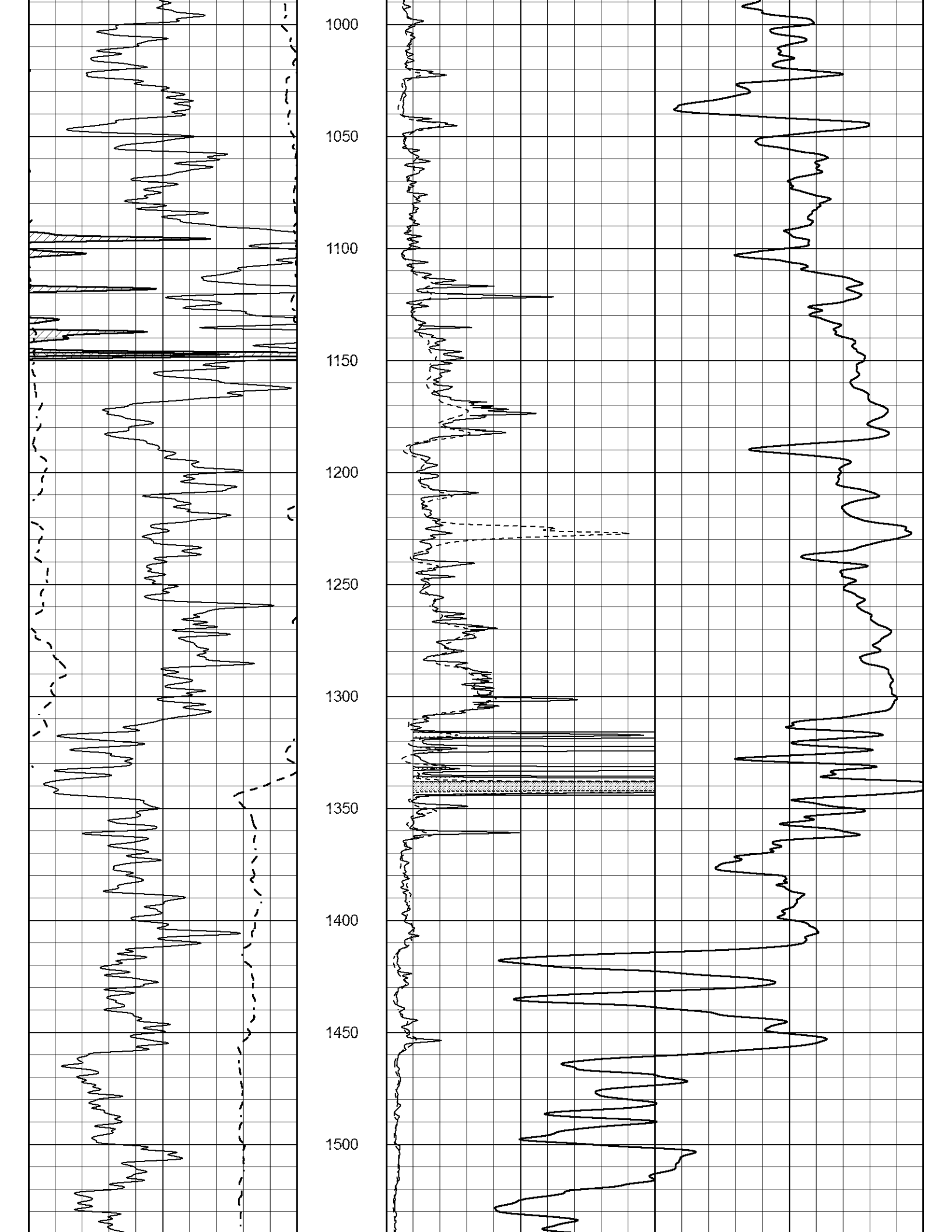
DIRECTIONS:
NORTH ON RED CHIEF ROAD FROM PENDENNIS, THEN EAST ON GOVE C ROAD 2 MILES
STRAIGHT ONTO LEASE ROAD, FOLLOW FOR 1.5 MILES TO LOCATION

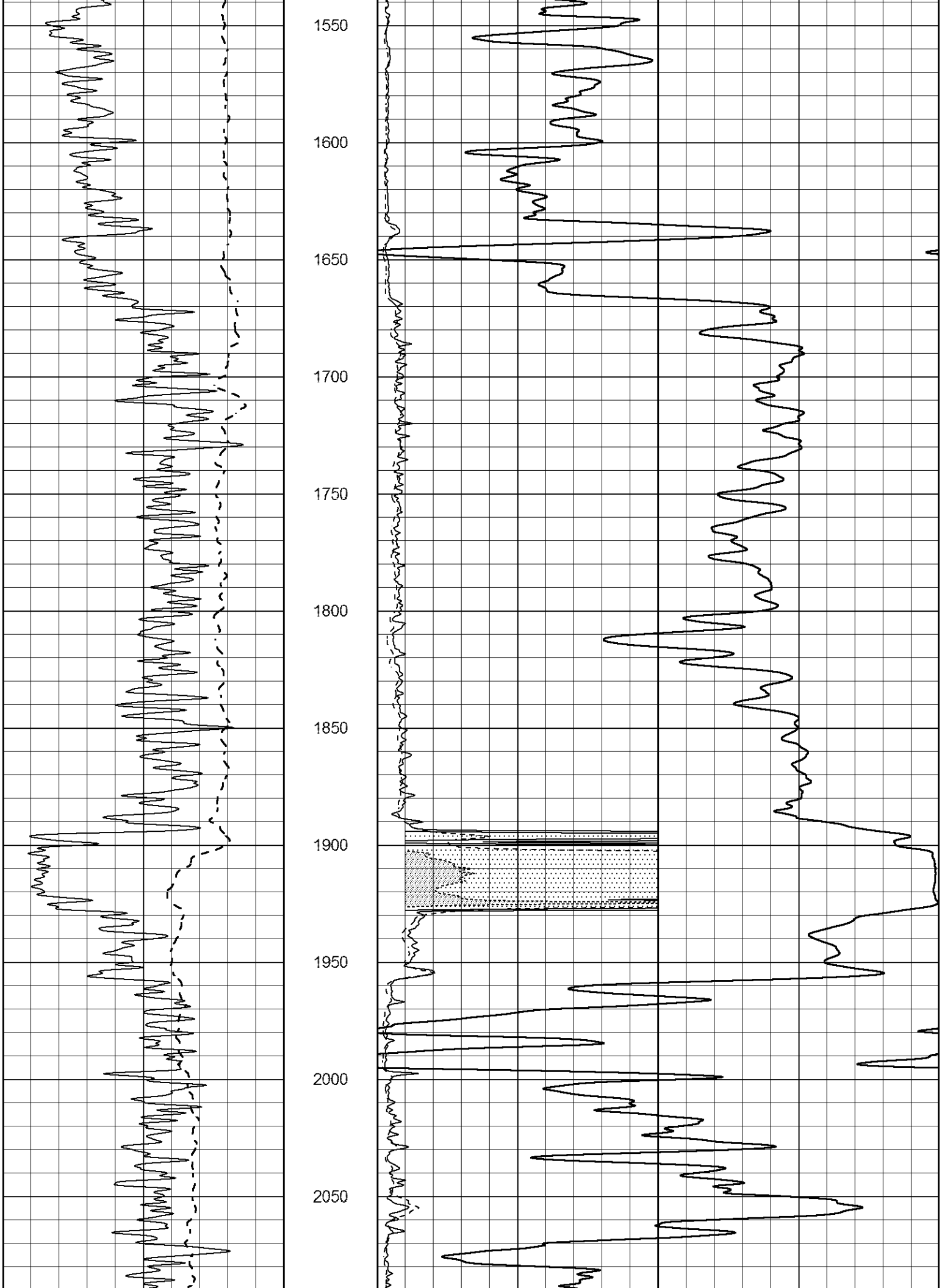
MAIN SECTION

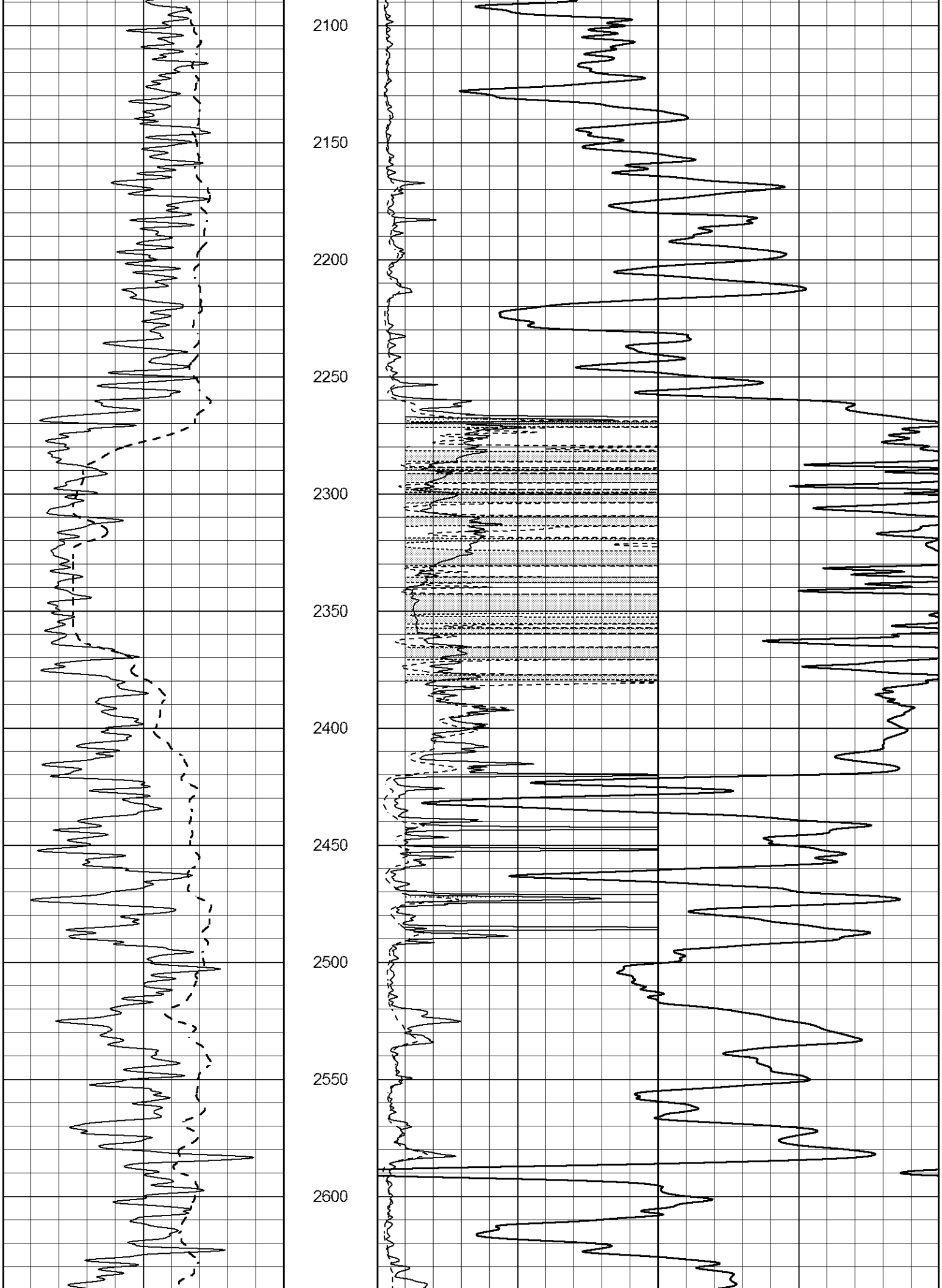
Database File	6771pe.db
Dataset Pathname	pass3MAIN
Presentation Format	_dil2
Dataset Creation	Tue Aug 16 16:24:00 2022
Charted by	Depth in Feet scaled 1:600

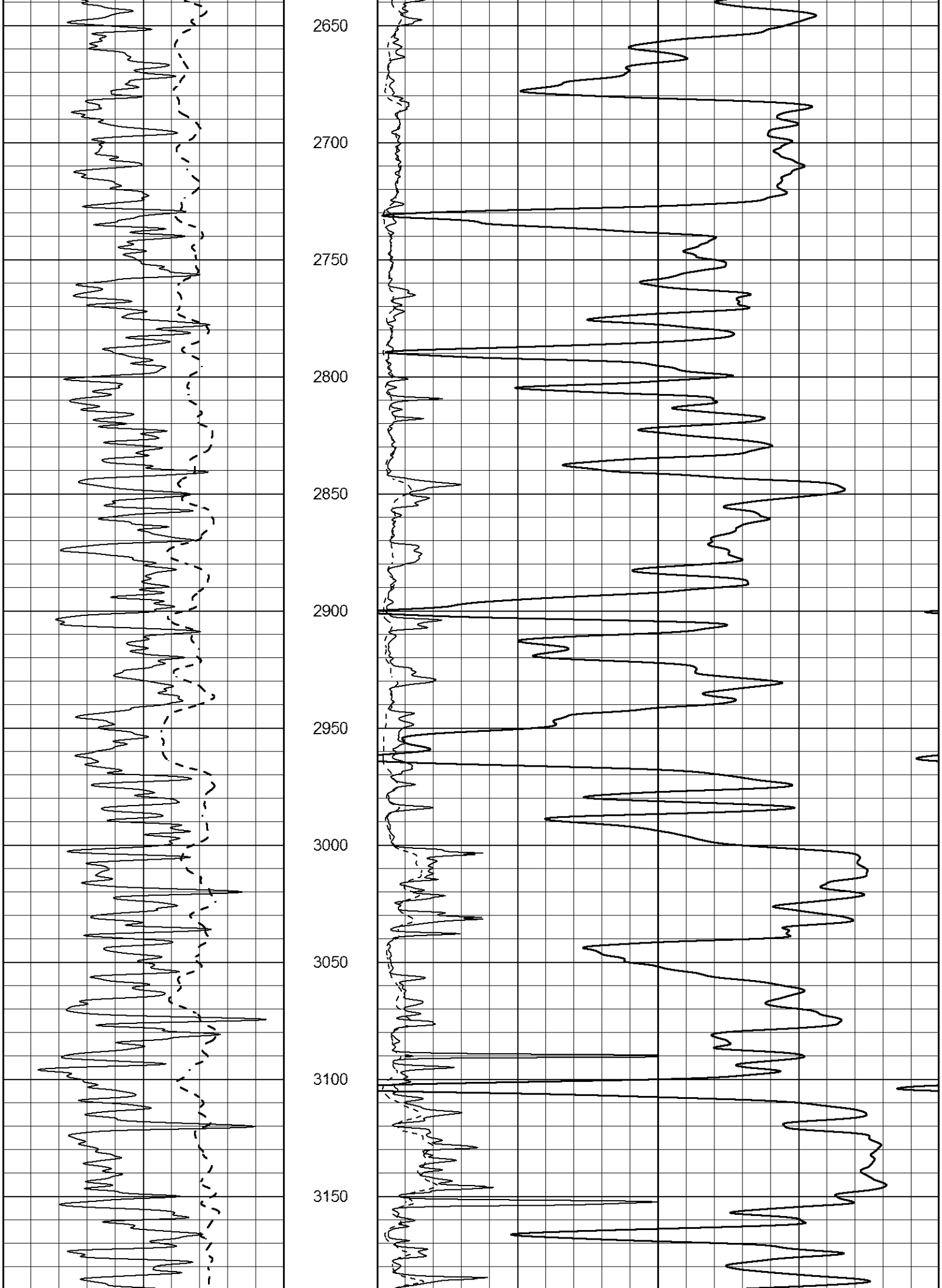


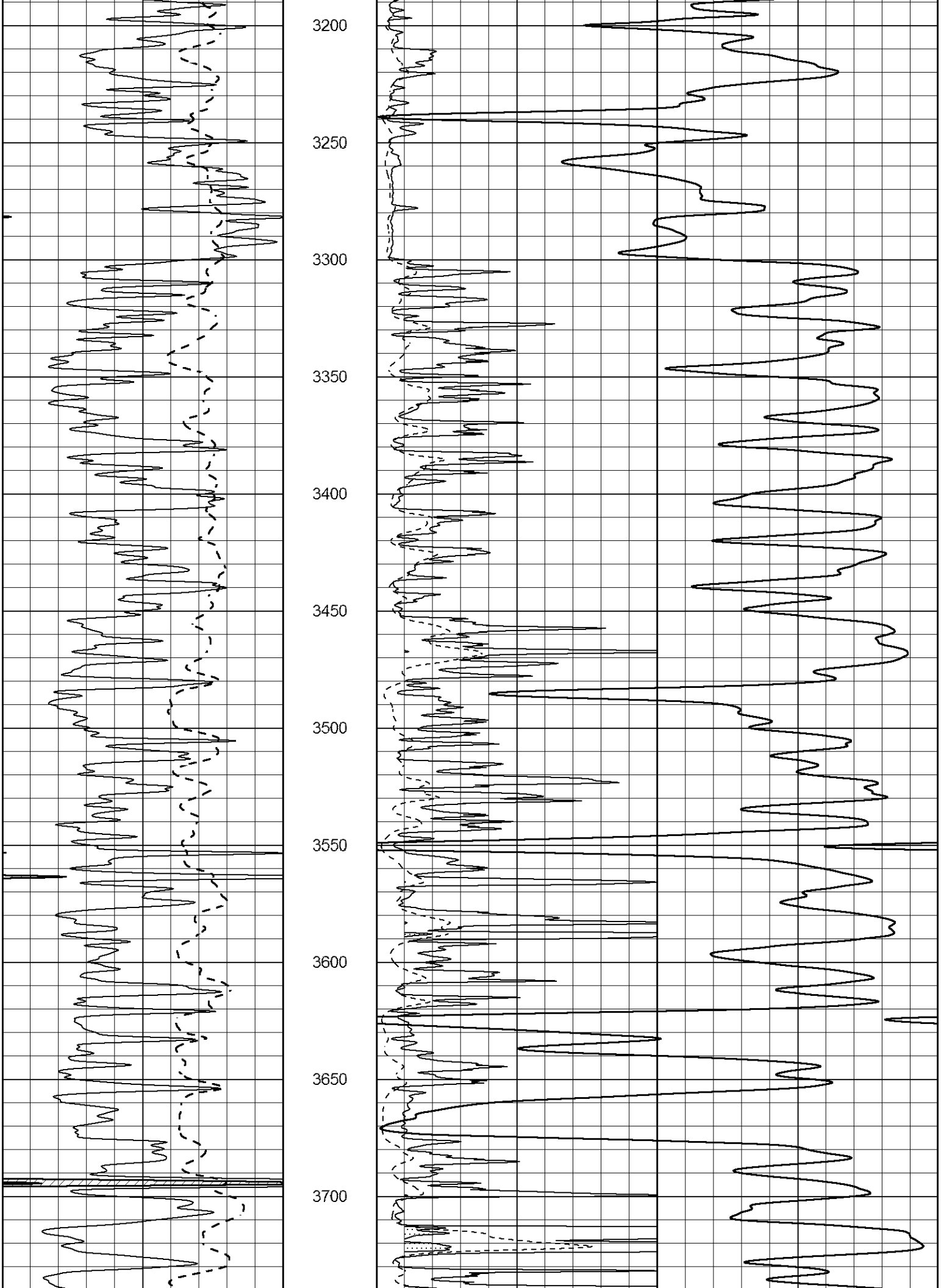

450
500
550
600
650
700
750
800
850
900
950

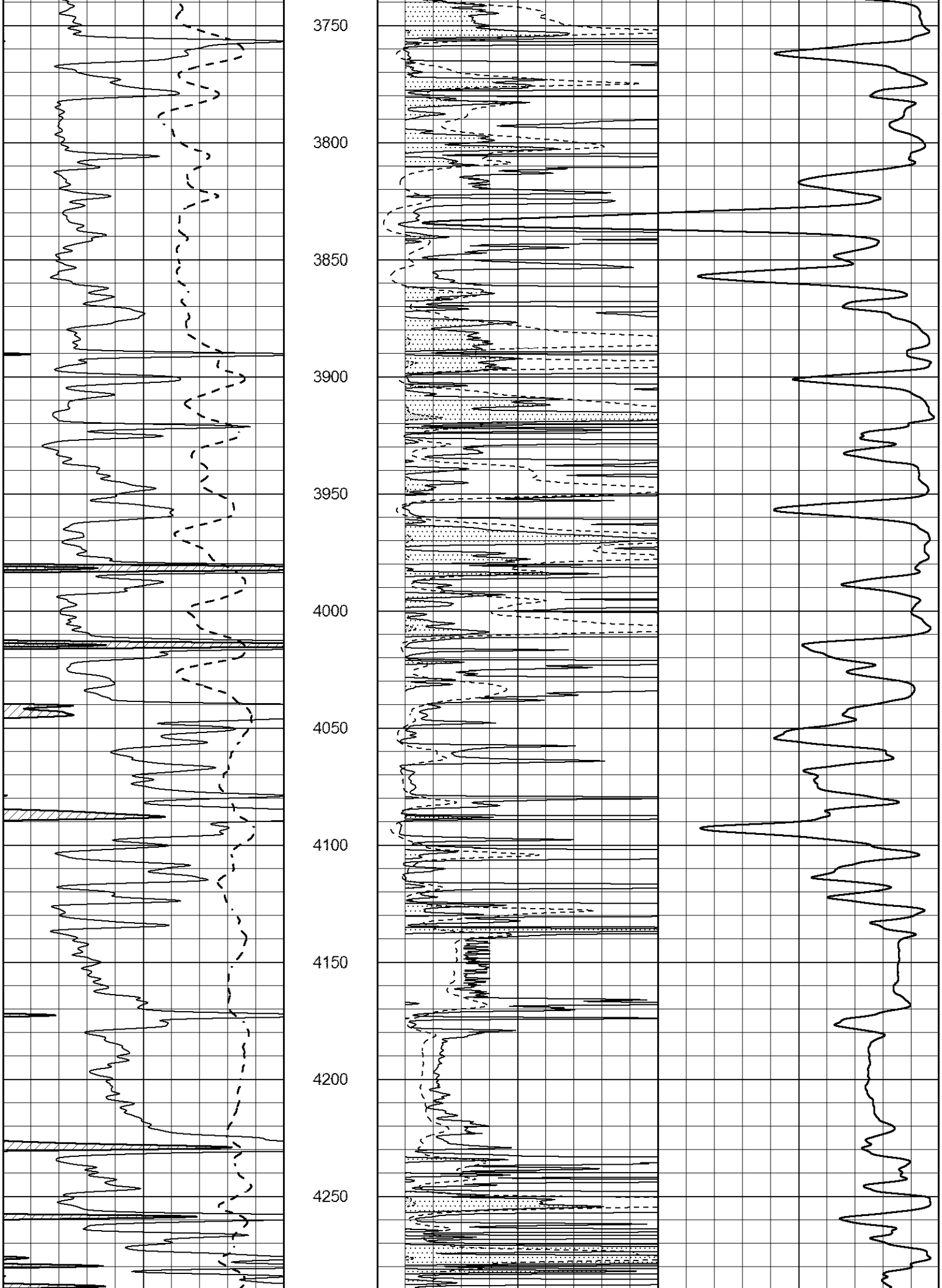

1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500

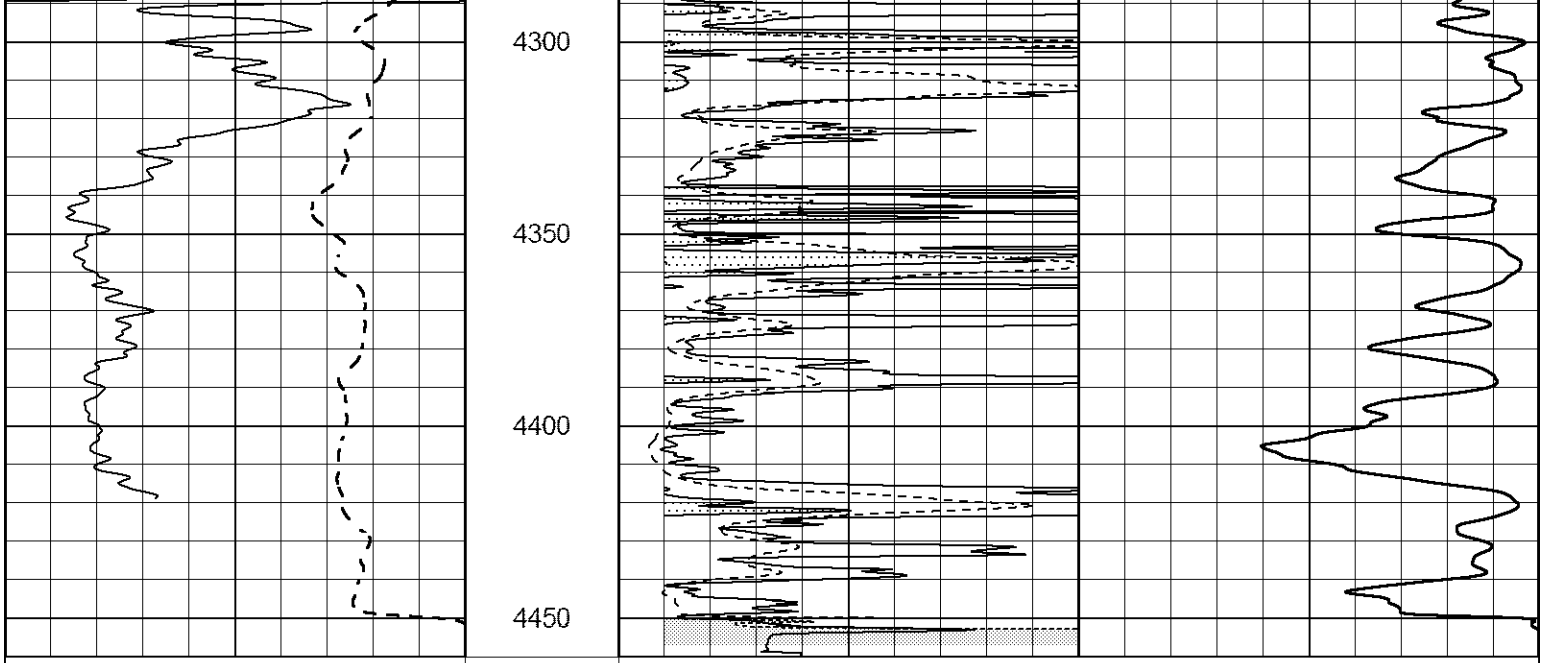

1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050


2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600


2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150

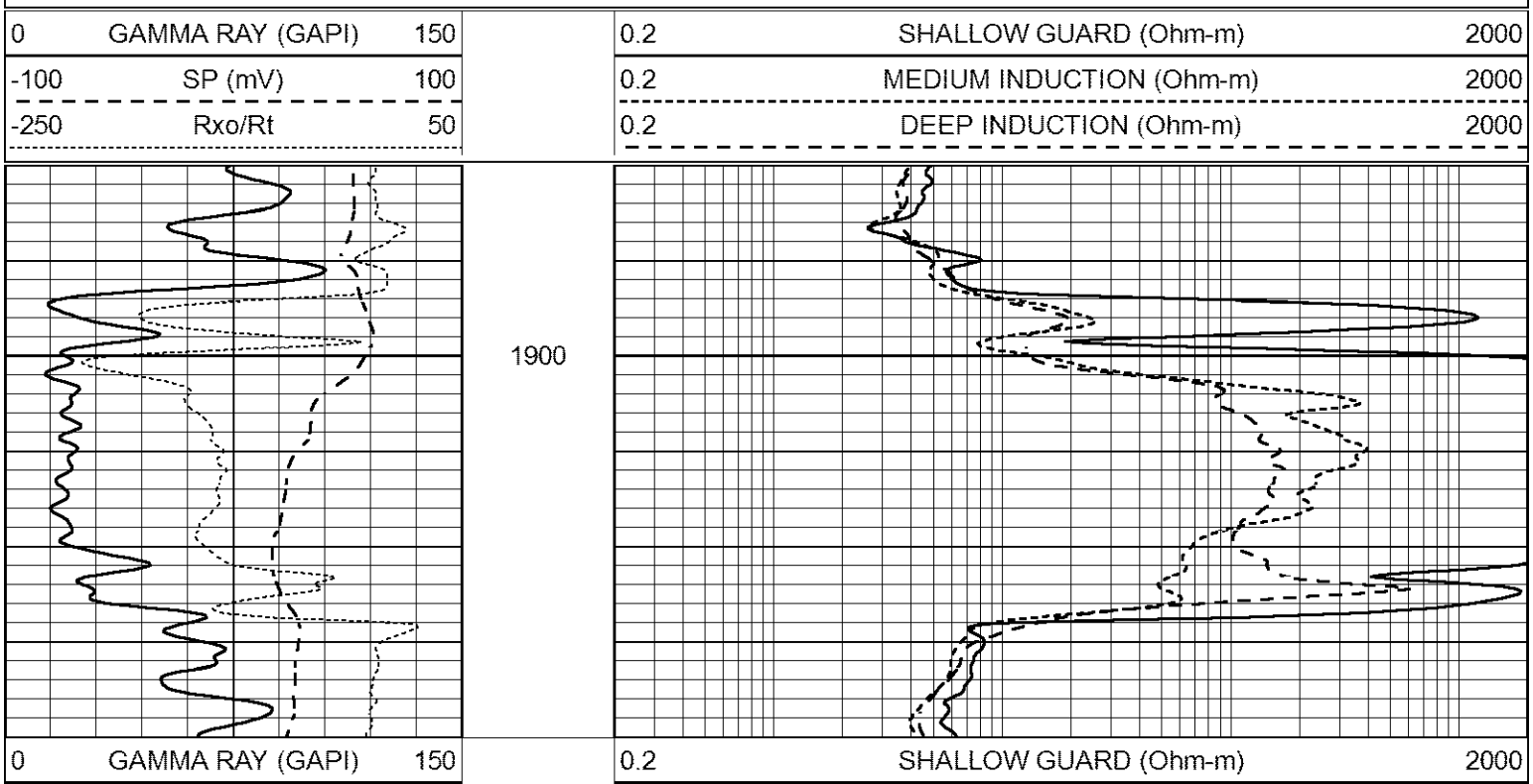

3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700


3750
3800
3850
3900
3950
4000
4050
4100
4150
4200
4250



ANHYDRITE

Database File	6771pe.db
Dataset Pathname	pass3A
Presentation Format	_dil
Dataset Creation	Tue Aug 16 17:00:58 2022
Charted by	Depth in Feet scaled 1:240



-100	SP (mV)	100
-250	Rxo/Rt	50

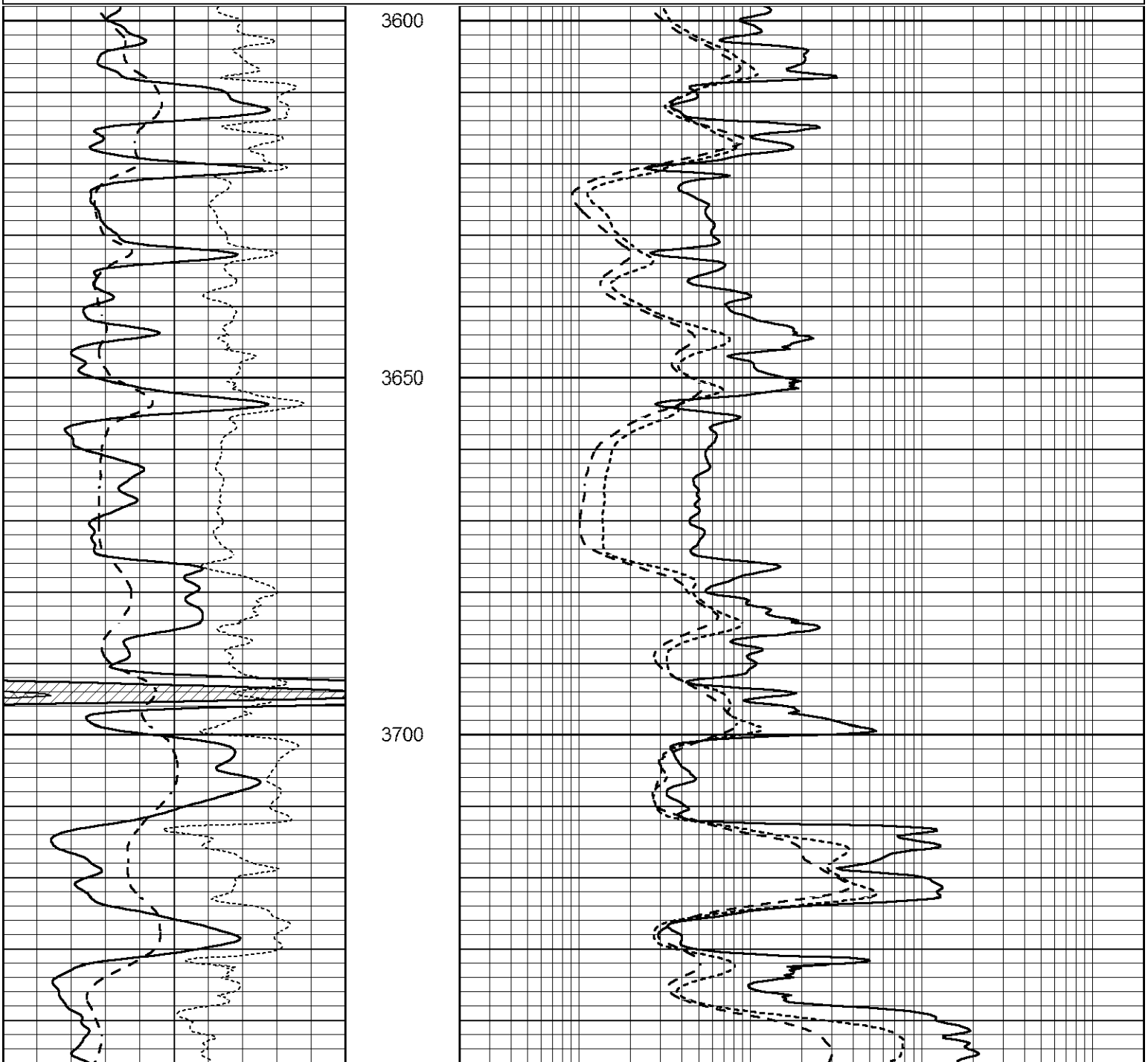
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

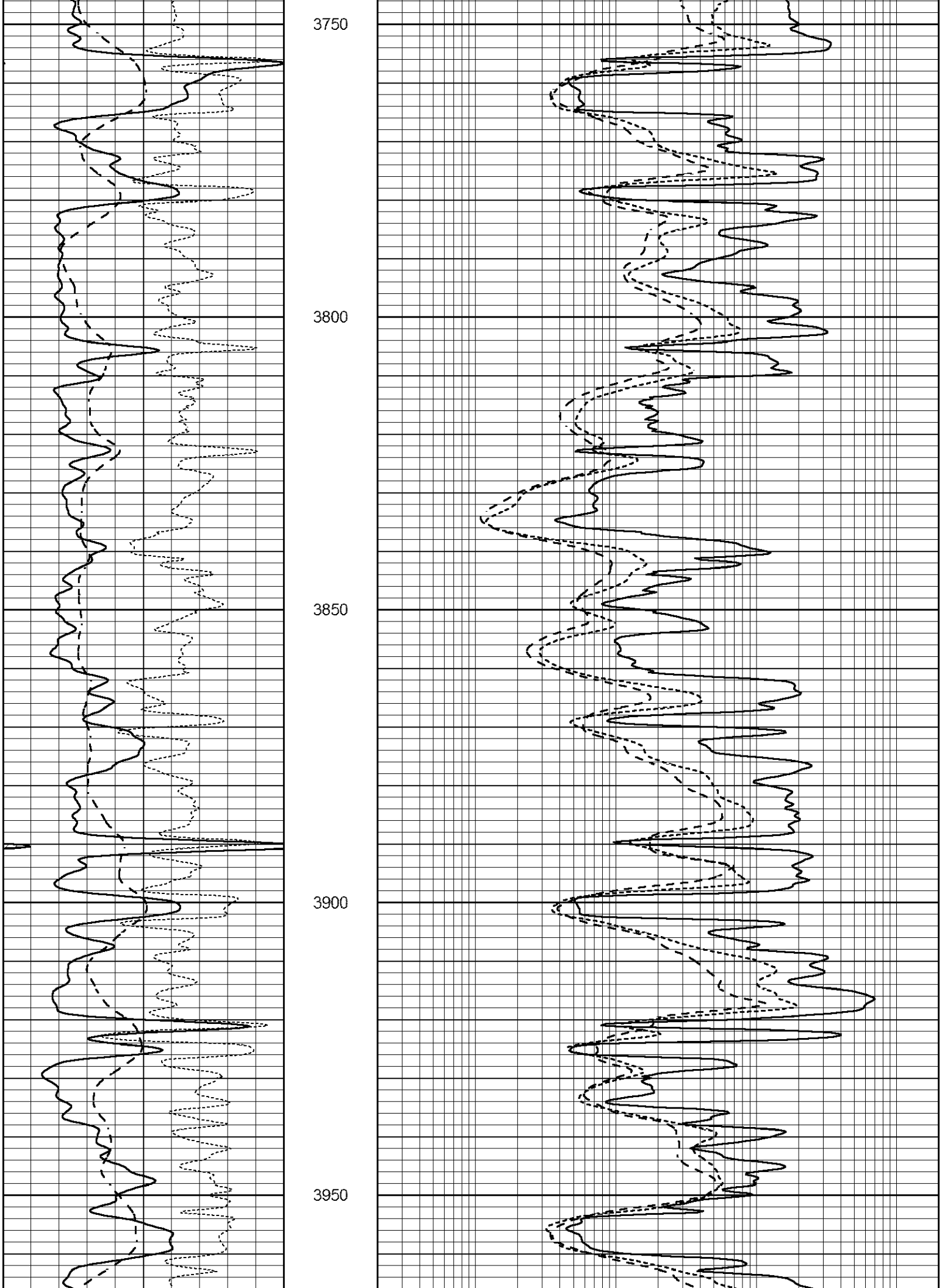
MAIN SECTION

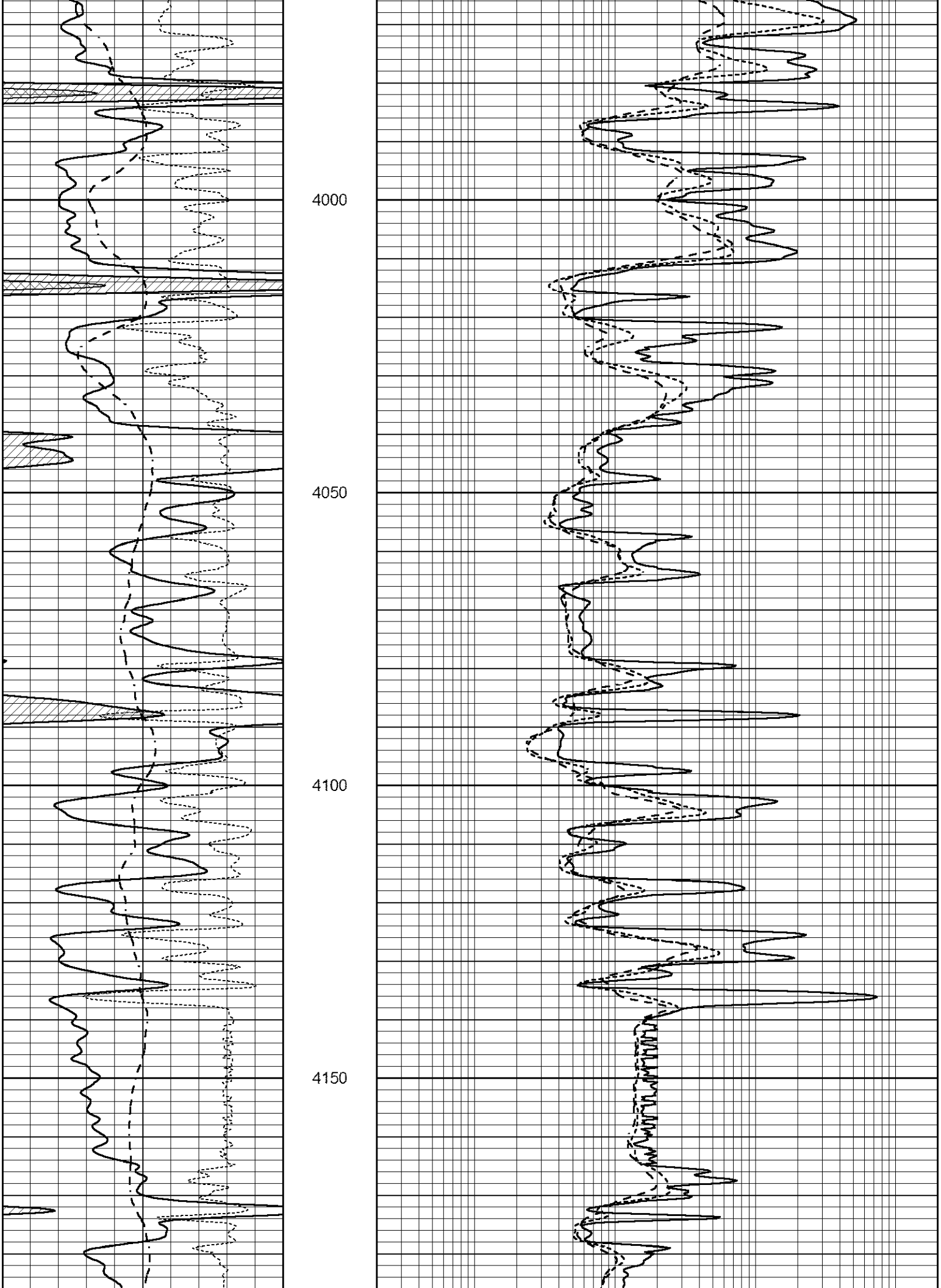
Database File	6771pe.db
Dataset Pathname	pass3M
Presentation Format	_dil
Dataset Creation	Tue Aug 16 16:02:38 2022
Charted by	Depth in Feet scaled 1:240

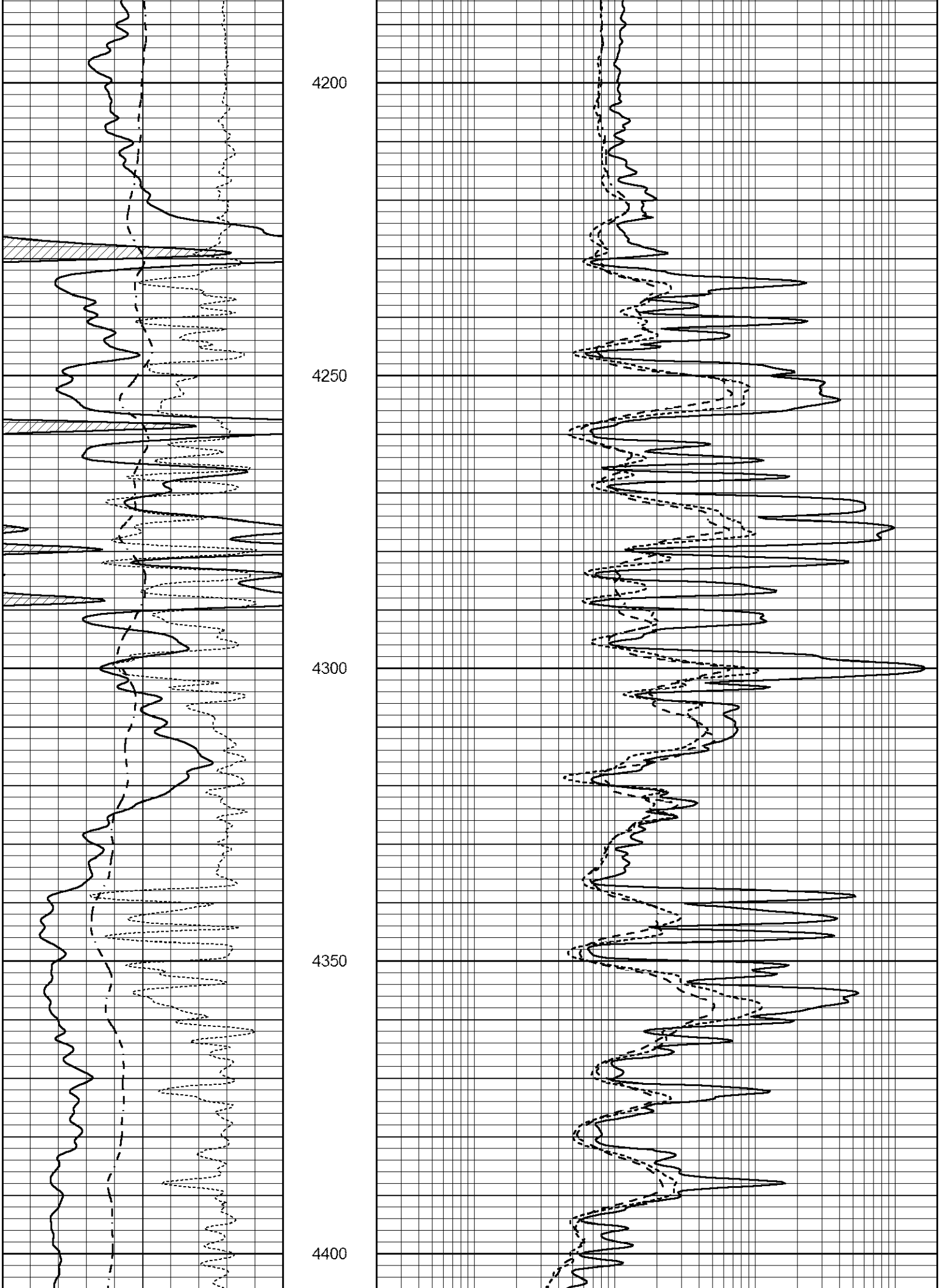
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

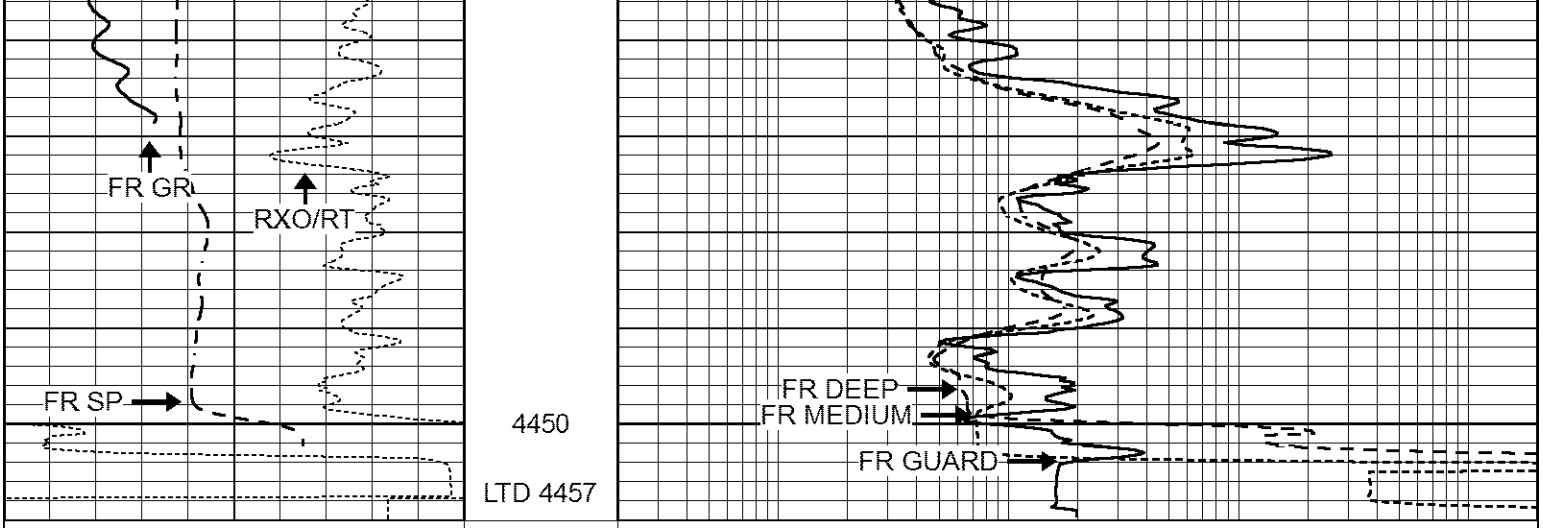
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000




3750
3800
3850
3900
3950


4000
4050
4100
4150


4200
4250
4300
4350
4400



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

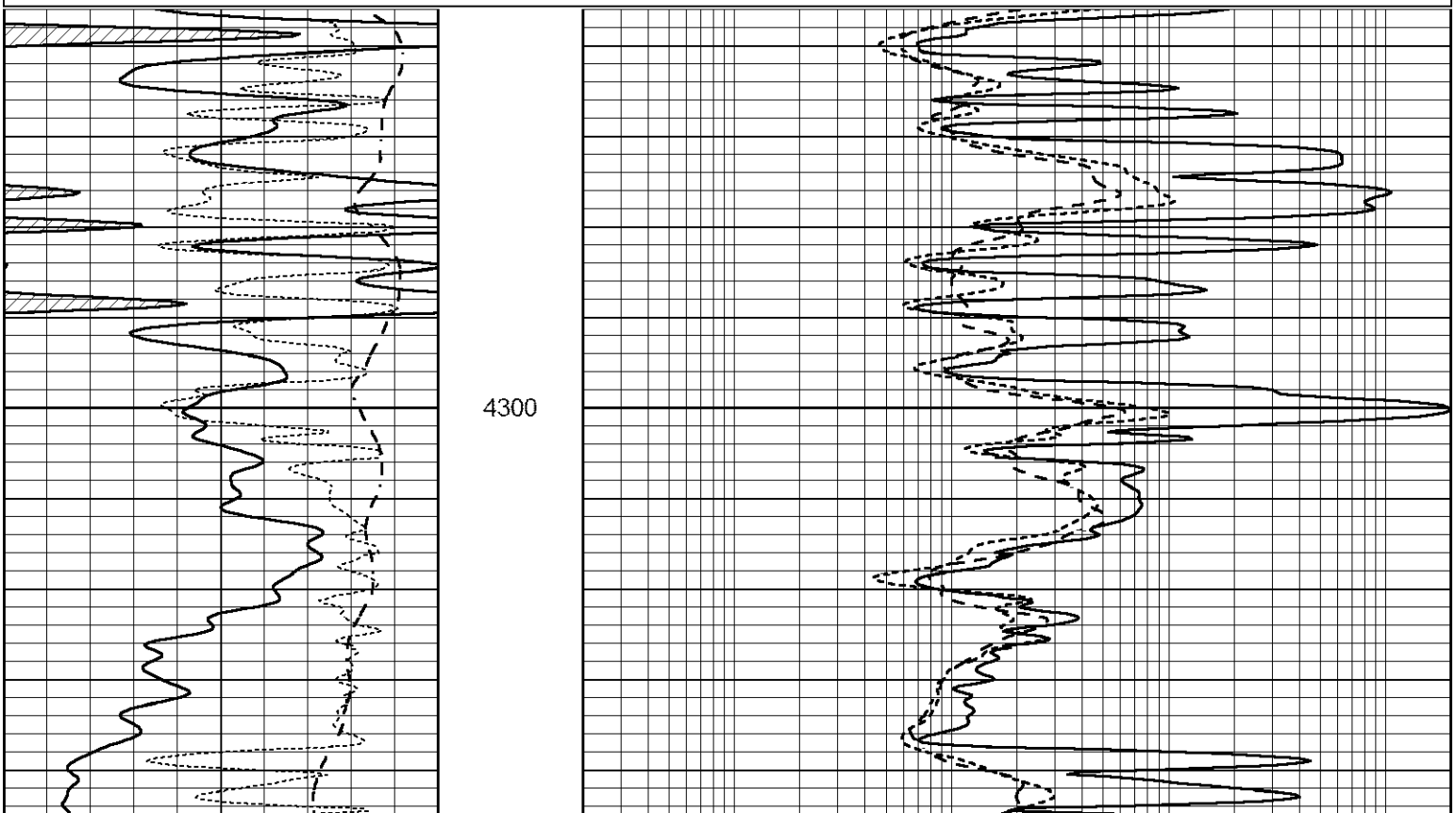
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

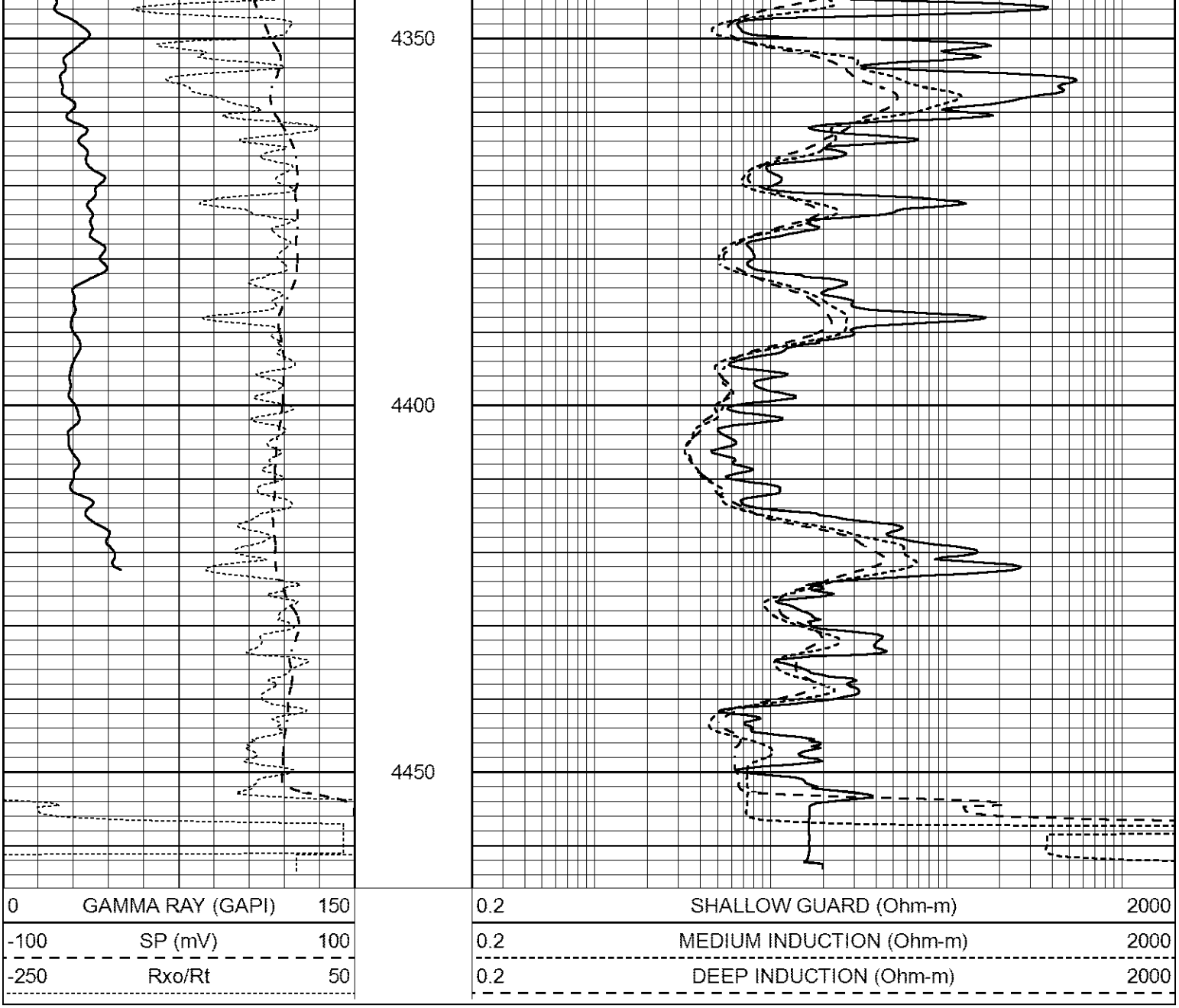
REPEAT SECTION

Database File	6771pe.db
Dataset Pathname	pass2R
Presentation Format	_dil
Dataset Creation	Tue Aug 16 16:15:28 2022
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000





Calibration Report

Database File	6771pe.db
Dataset Pathname	pass3MAIN
Dataset Creation	Tue Aug 16 16:24:00 2022

Dual Induction Calibration Report

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 Backround 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 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	-7.7

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 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5500 GAPI/cps