DUAL INDUCTION LOG

Company DARRAH OIL COMPANY, LLC

Well BITTER C #11

Field TRAPP

County BARTON State KANSAS

Location: API # : 15-009-26343-0000

330' FNL & 1589' FEL
E2/NE/NW/NE
SEC 18 TWP 16S RGE 13W

Other Services
CNL/CDL/PE
MEL/SON

Permanent Datum GROUND LEVEL Elevation 1931
Log Measured From KELLY BUSHING 5' A.G.L
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1936
D.F. 1934
G.L. 1931

Company	DARRAH OIL COMPANY, LLC					
Well	BITTER C #11					
Field	TRAPP					
County	BARTON					
State	KANSAS					
Date	4/7/22					
Run Number	ONE					
Depth Driller	3377					
Depth Logger	3376					
Bottom Logged Interval	3374					
Top Log Interval	2700					
Casing Driller	436					
Casing Logger	436					
Bit Size	7 7/8					
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6500 PPM				
Density / Viscosity	9.1/51					
pH / Fluid Loss	9.0/8.2					
Source of Sample	FLOWLINE					
Rm @ Meas. Temp	.5@60F					
Rmf @ Meas. Temp	.38@60F					
Rmc @ Meas. Temp	.6@60F					
Source of Rmf / Rmc	MEASUREMENT					
Rm @ BHT	.27@110F					
Time Circulation Stopped	2 HOURS					
Time Logger on Bottom	////					
Maximum Recorded Temperature	110F					
Equipment Number	3802					
Location	HAYS, KANSAS					
Recorded By	TJ DREILING					
Witnessed By	ROGER MARTIN					

<<< Fold Here >>>

Comments

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

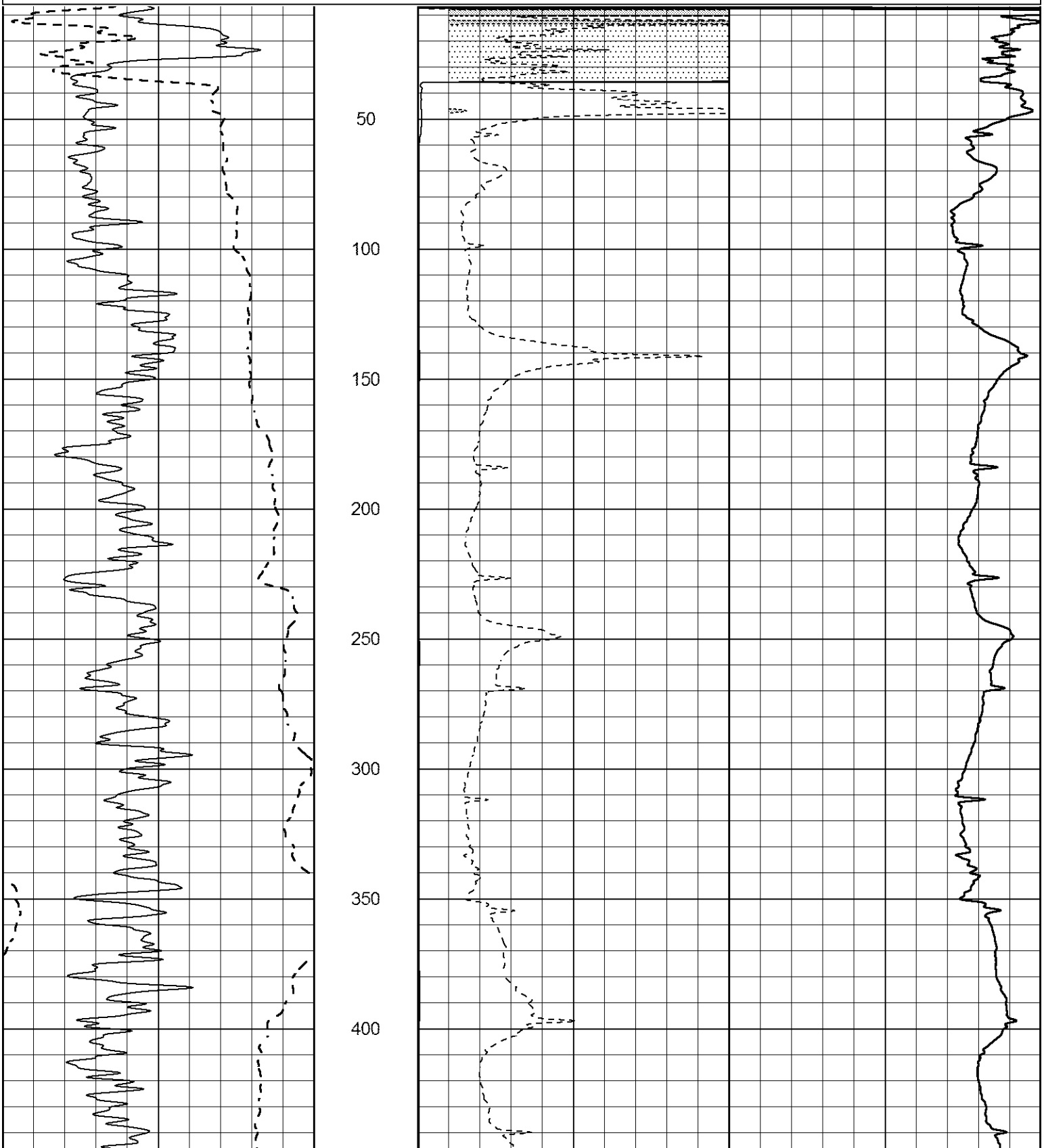
-RUSSELL KANSAS SOUTH TO BARTON COUNTY LINE, SOUTH TO NW 210 RD.
-2 1/2 MILE EAST -SOUTH INTO

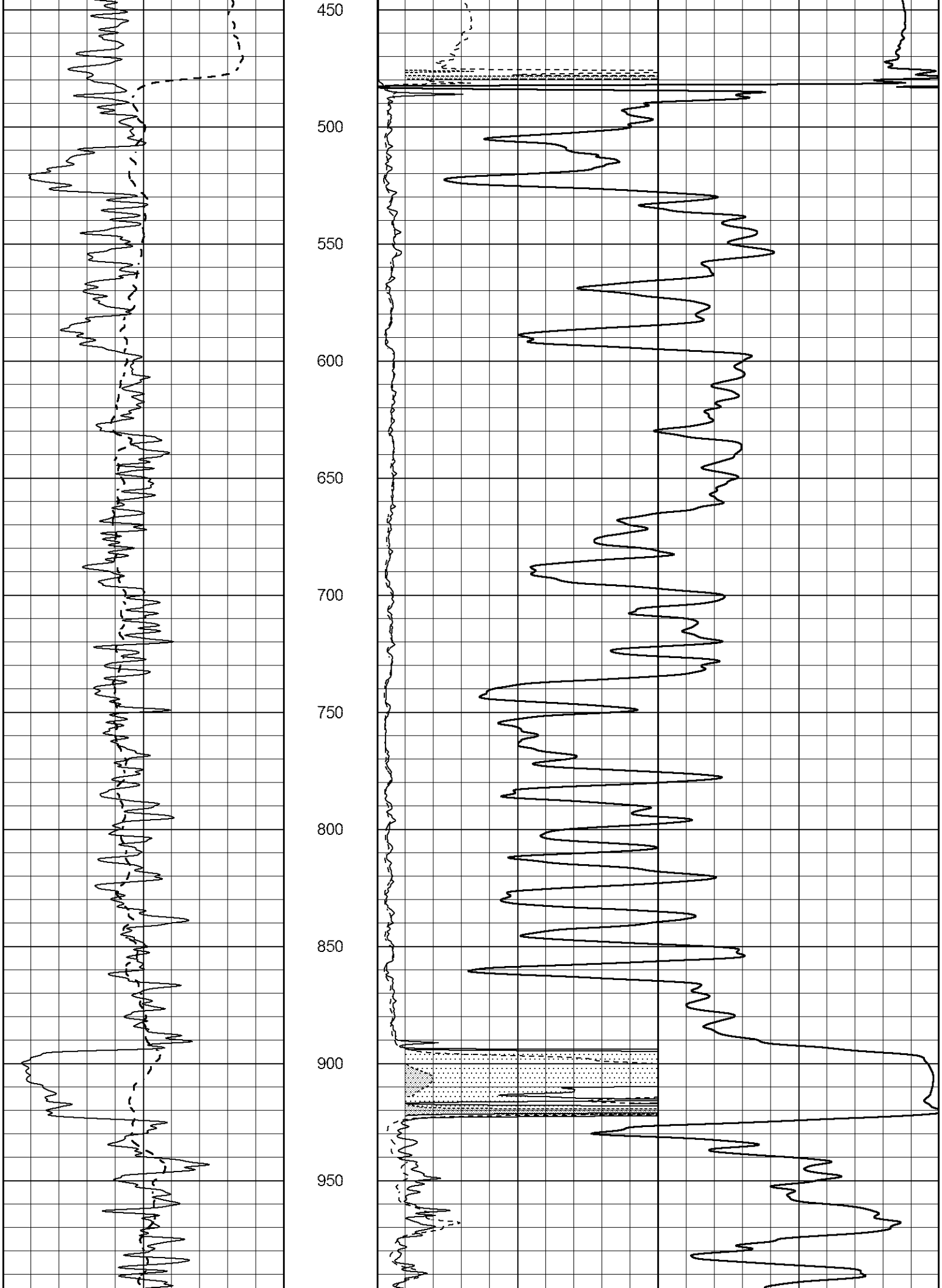
MAIN SECTION

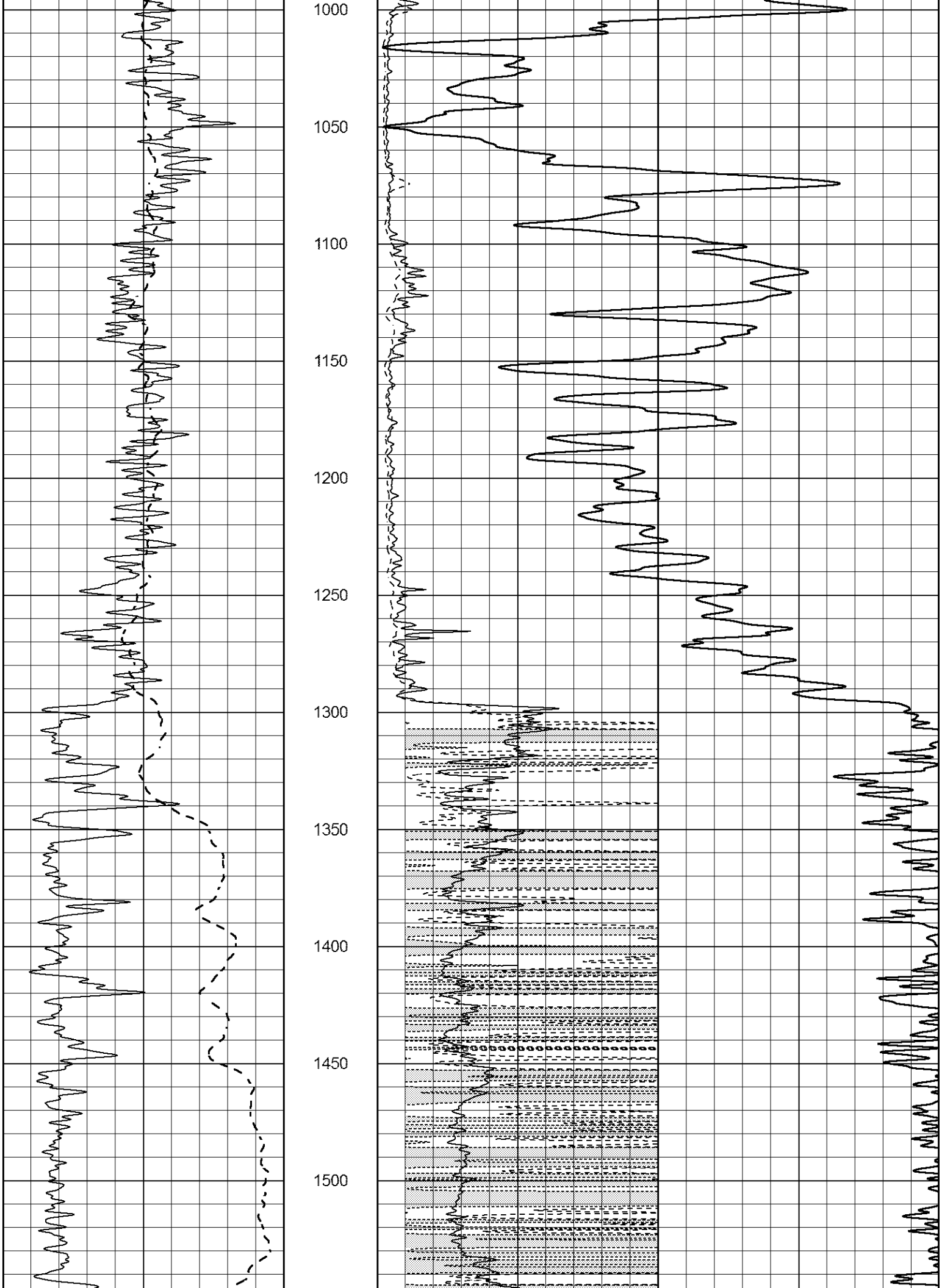
Database File	6385pe.db
Dataset Pathname	pass3.3
Presentation Format	_dil2
Dataset Creation	Fri Apr 08 01:41:29 2022
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

1000	CILD (mmho/m)	0
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500




450
500
550
600
650
700
750
800
850
900
950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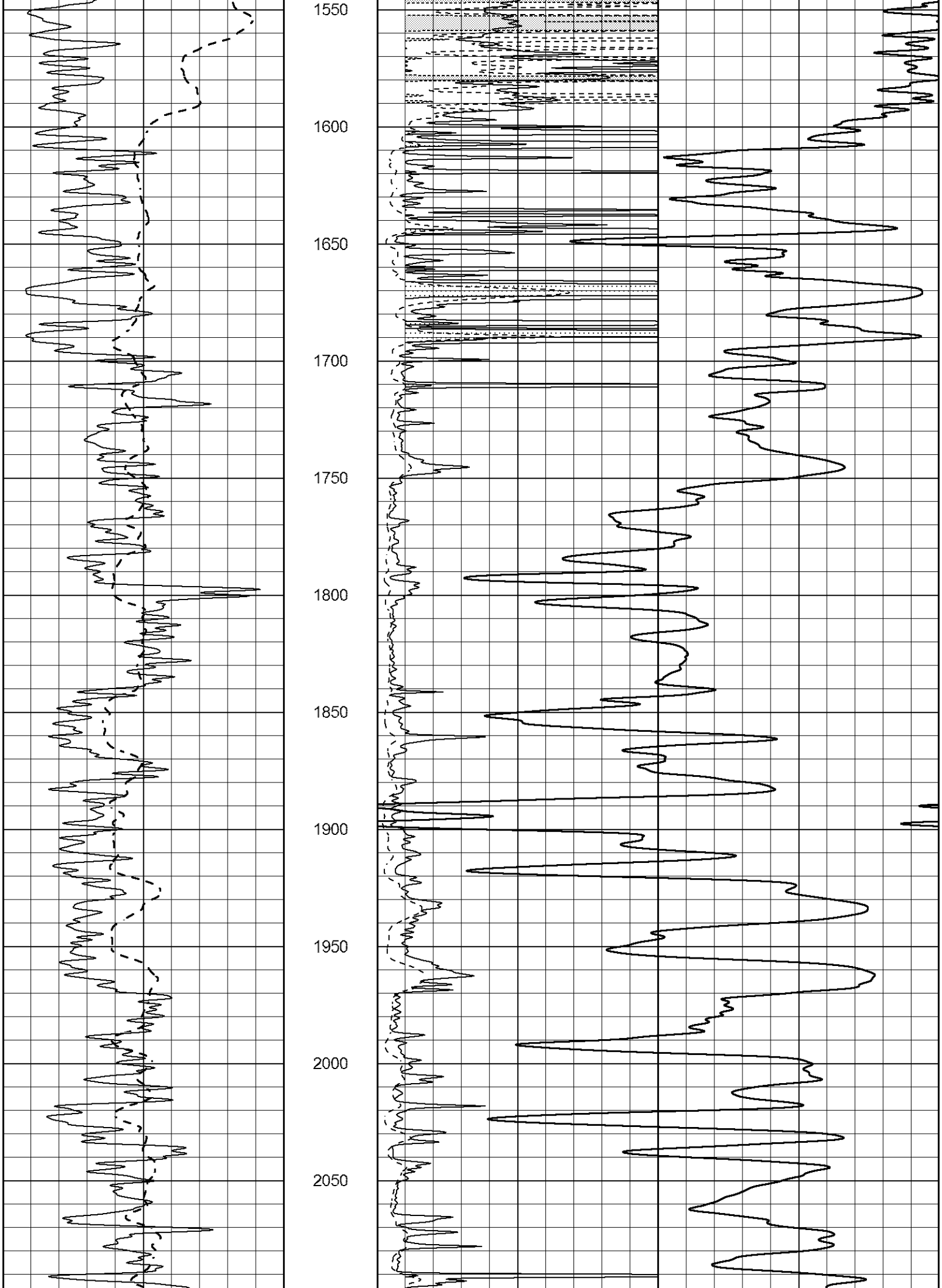
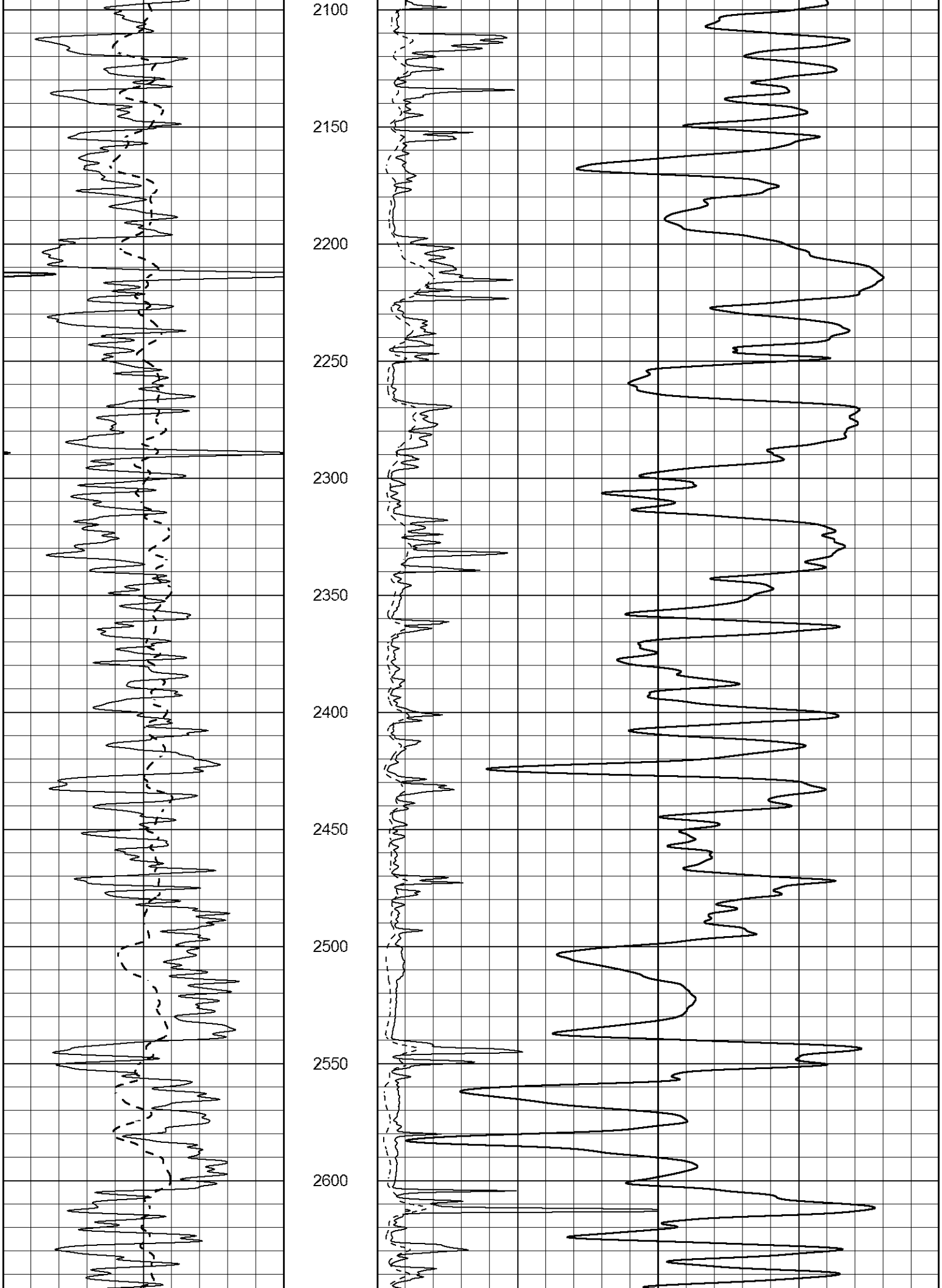
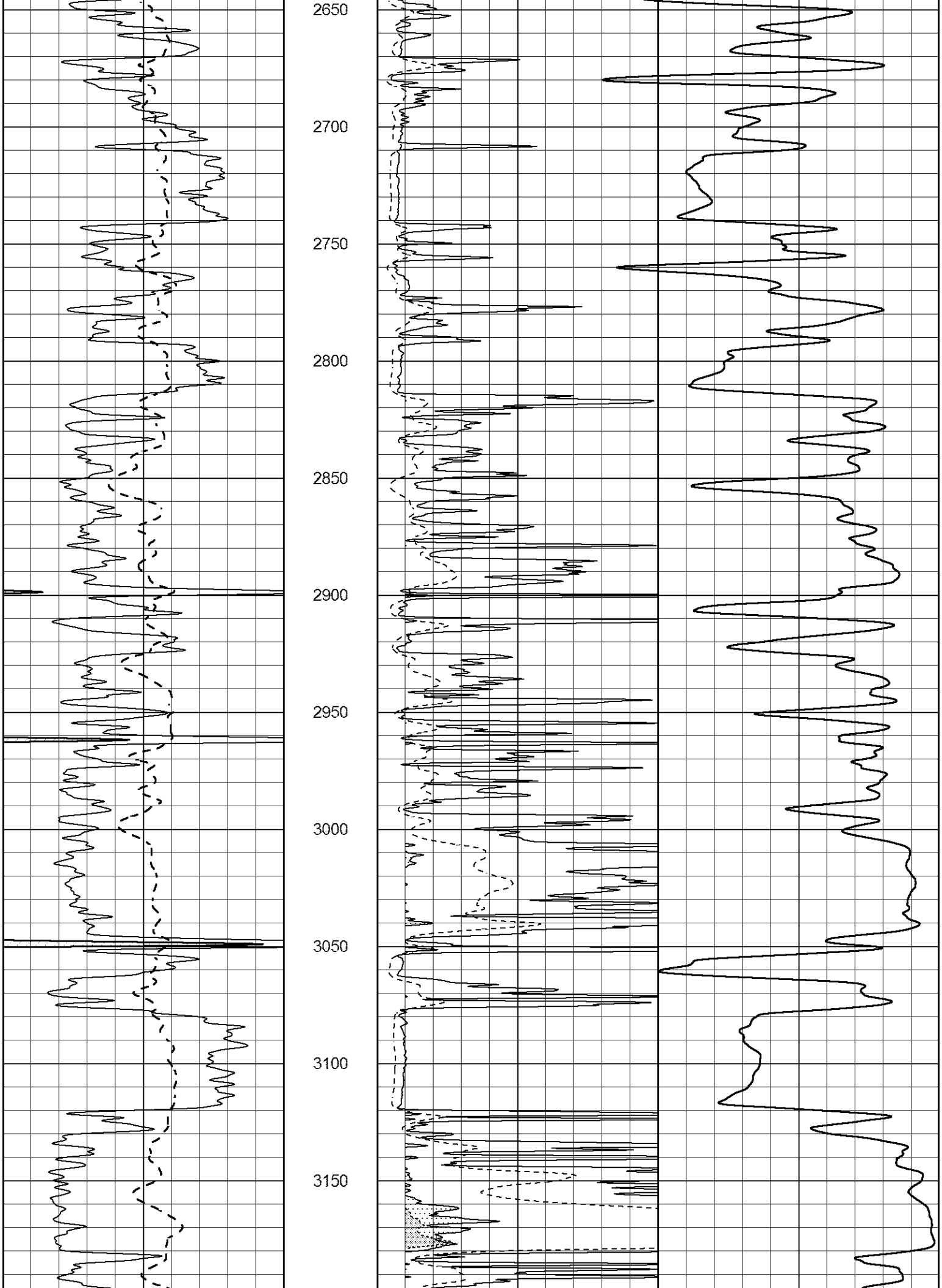
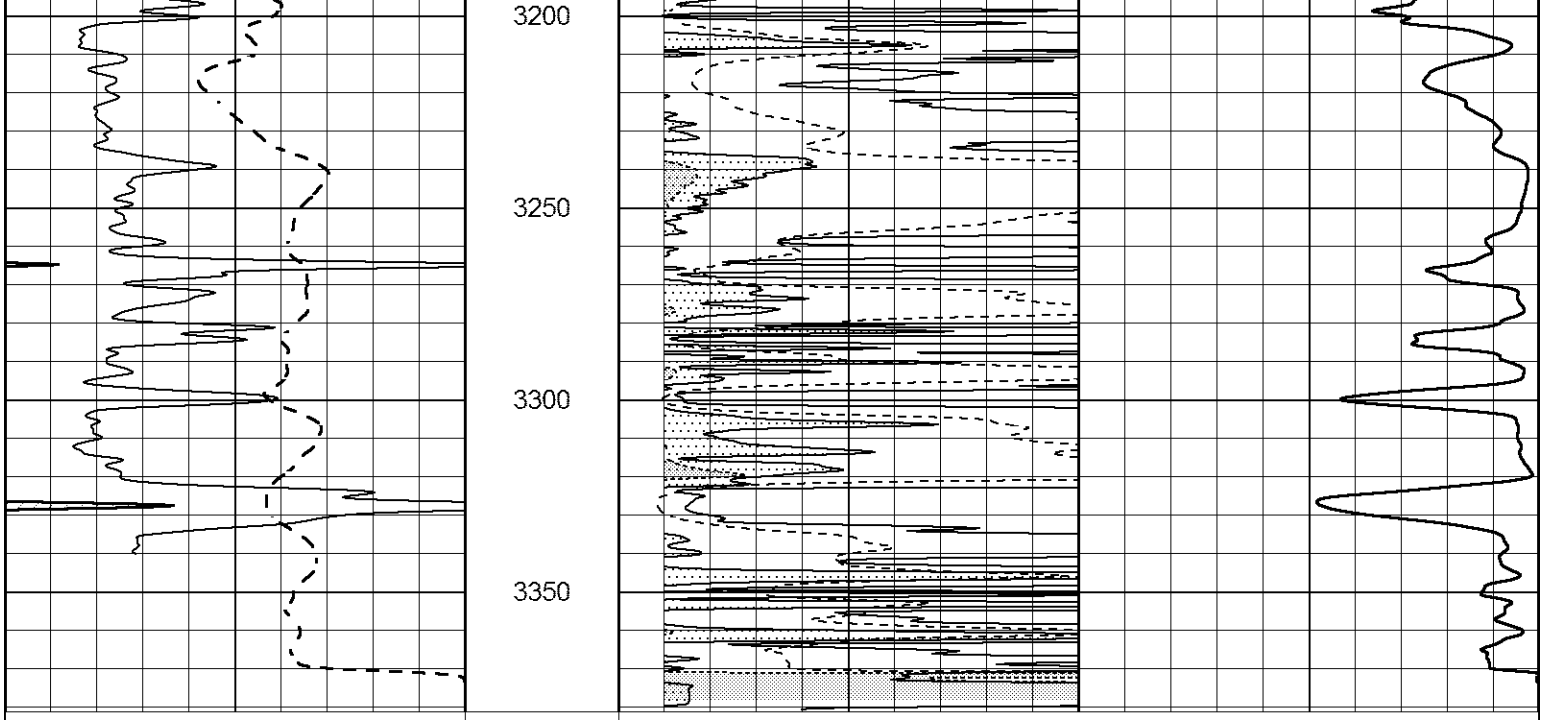
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500


1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050

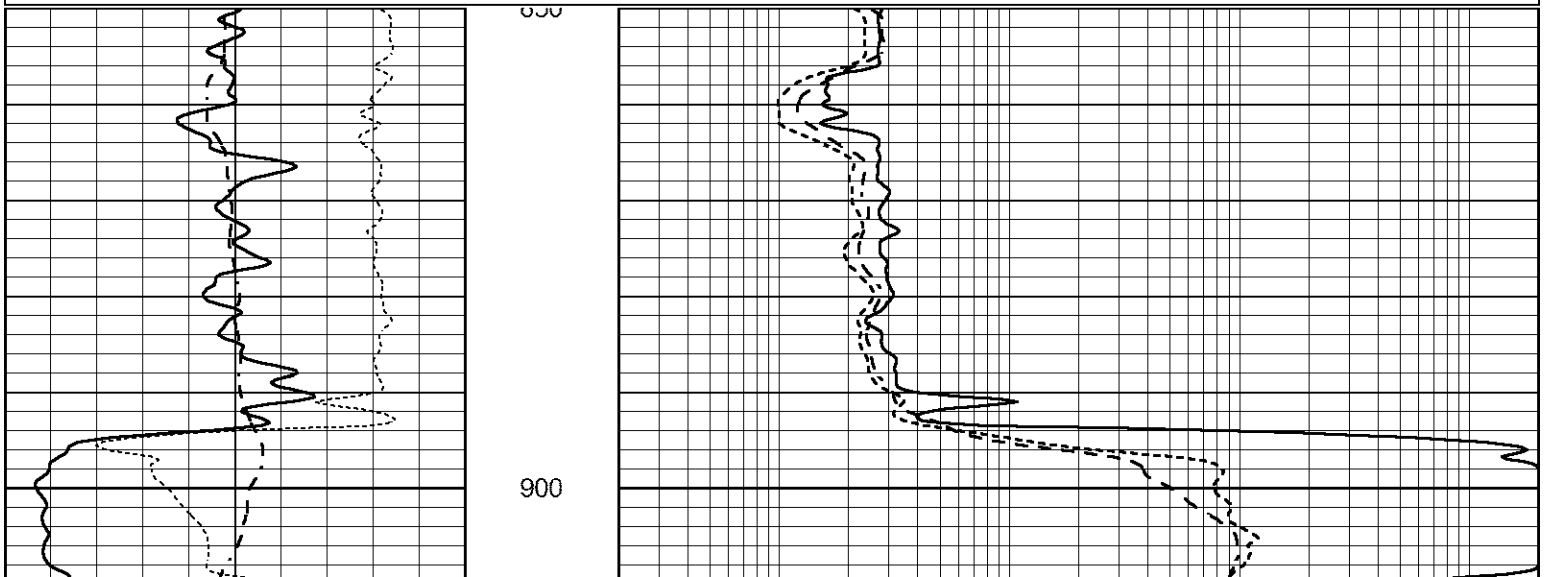

2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600

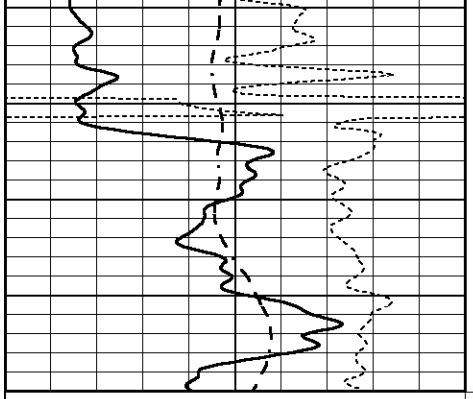

2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150



ANHYRDRITE

Database File	6385pe.db
Dataset Pathname	pass3.2
Presentation Format	_dil
Dataset Creation	Fri Apr 08 01:29:26 2022
Charted by	Depth in Feet scaled 1:240





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

950

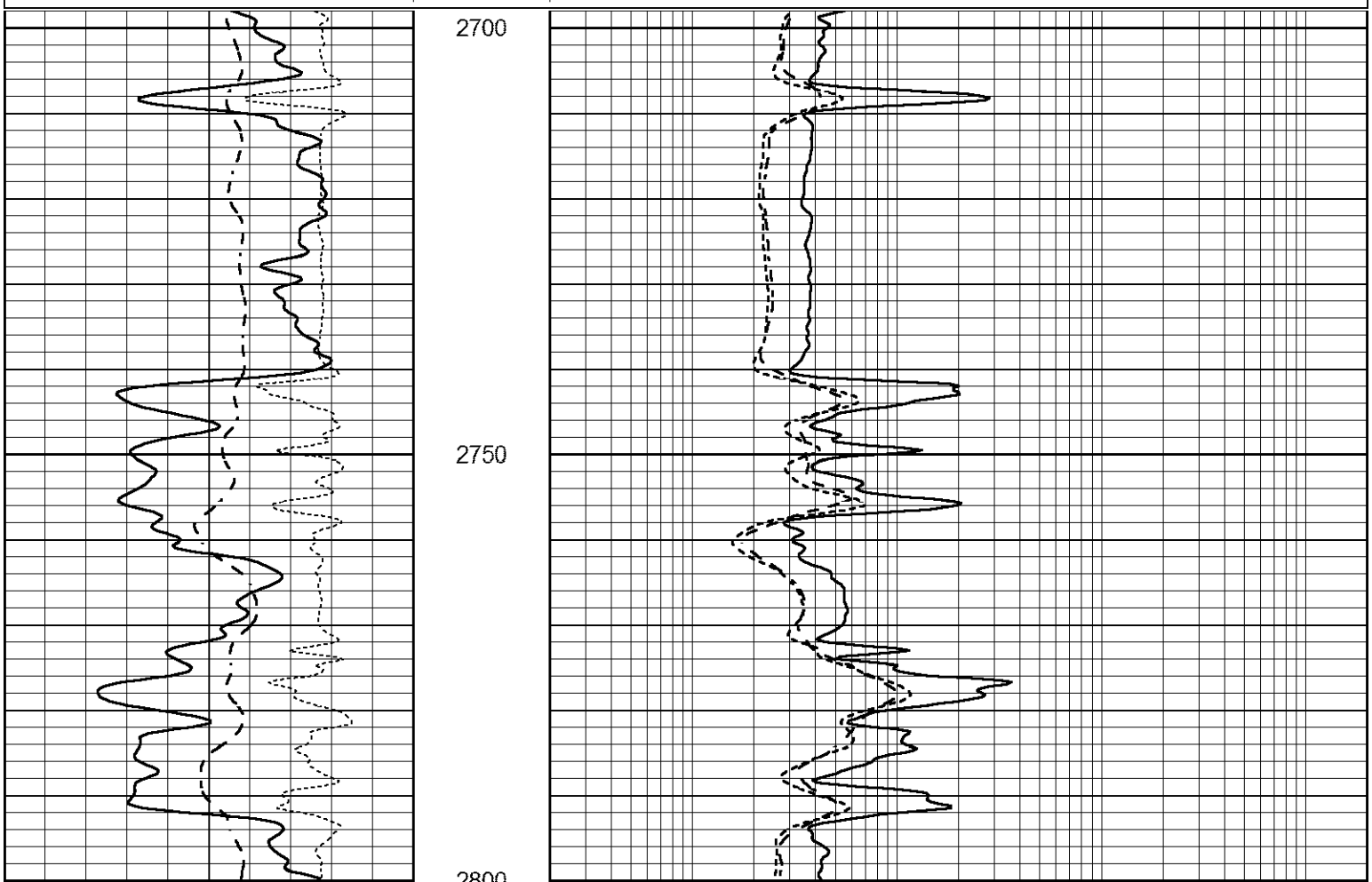
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

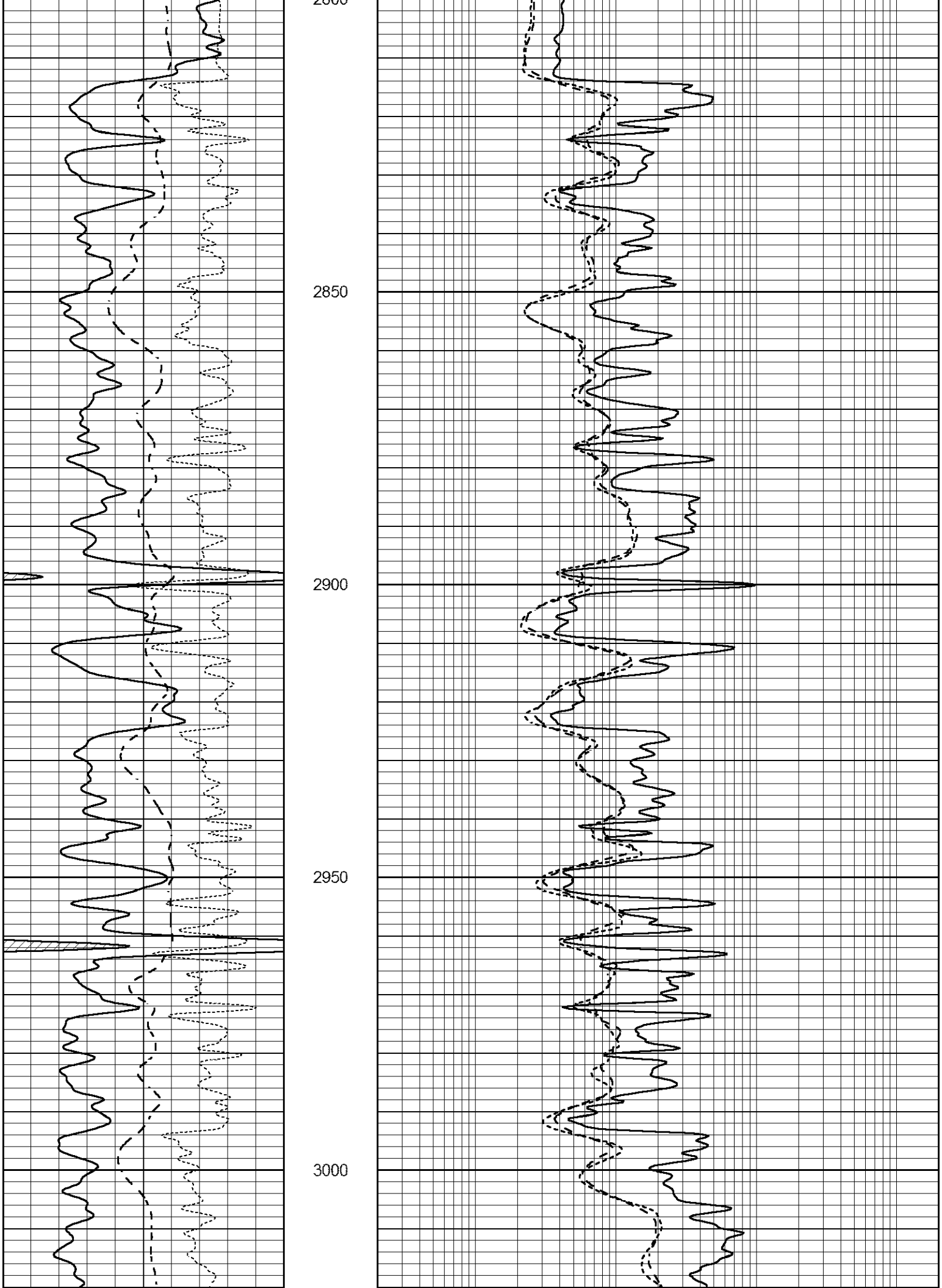
MAIN SECTION

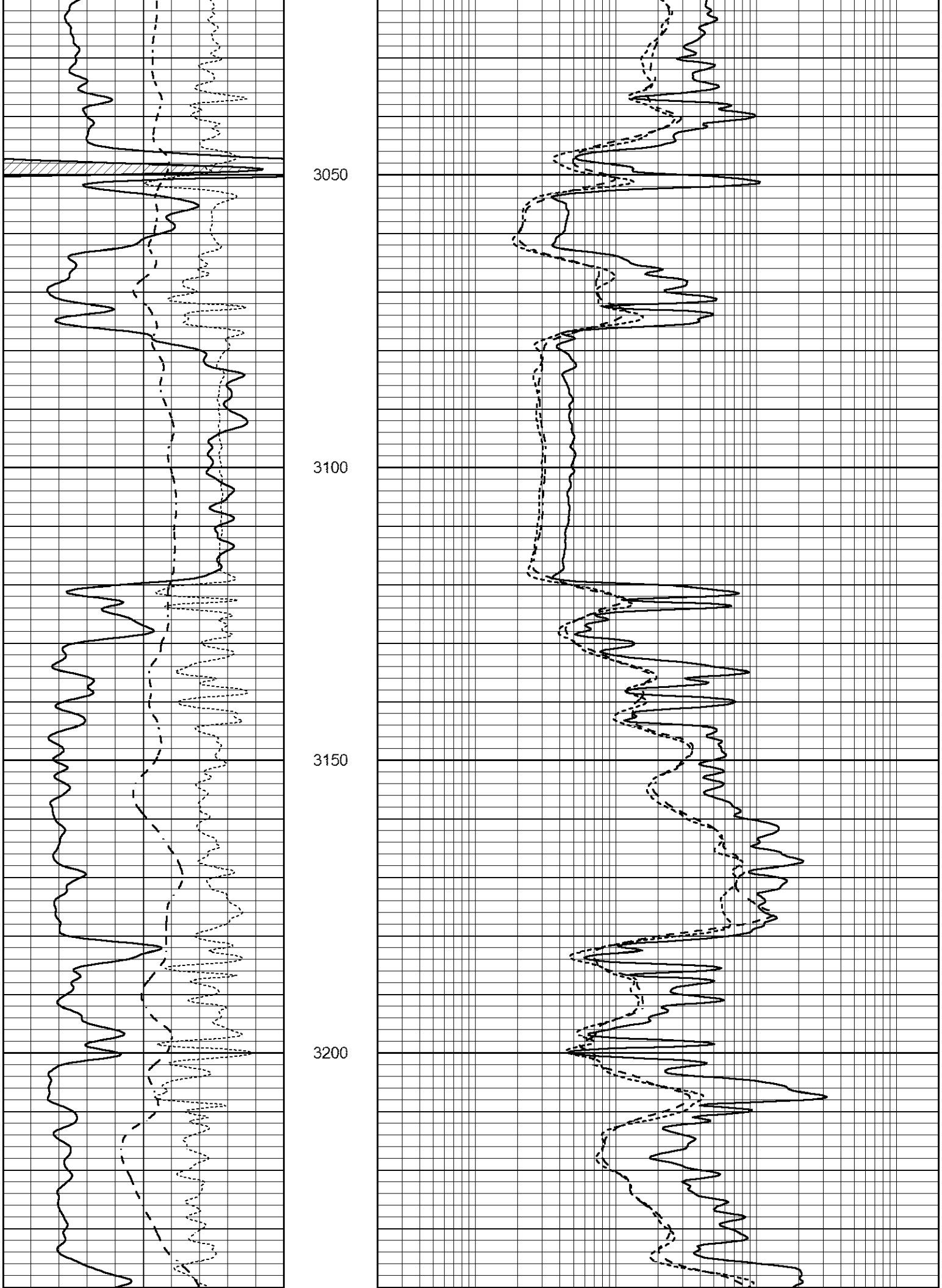
Database File	6385pe.db
Dataset Pathname	pass3.1
Presentation Format	_dil
Dataset Creation	Fri Apr 08 01:17:25 2022
Charted by	Depth in Feet scaled 1:240

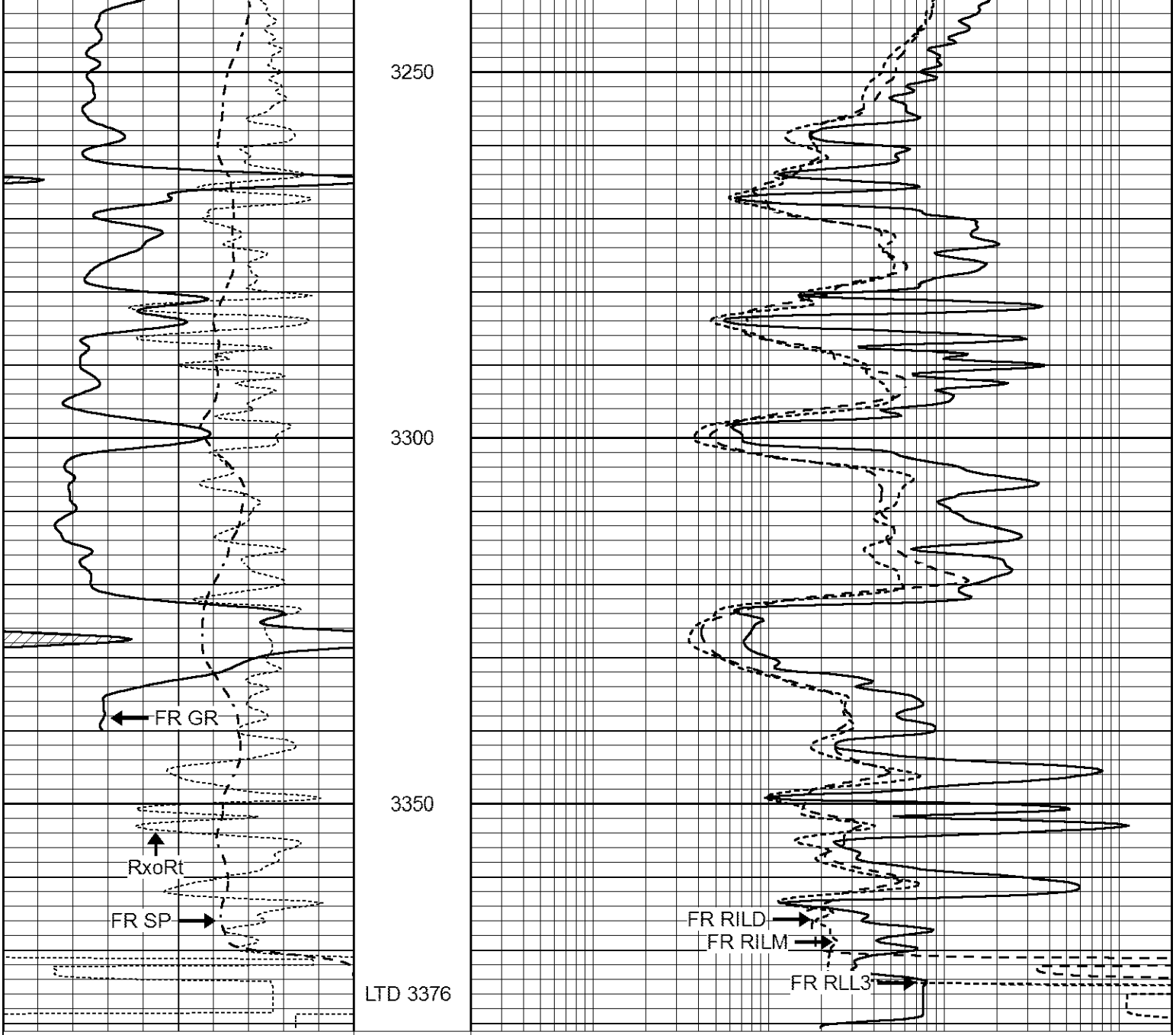
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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




2800
2850
2900
2950
3000


3050
3100
3150
3200



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

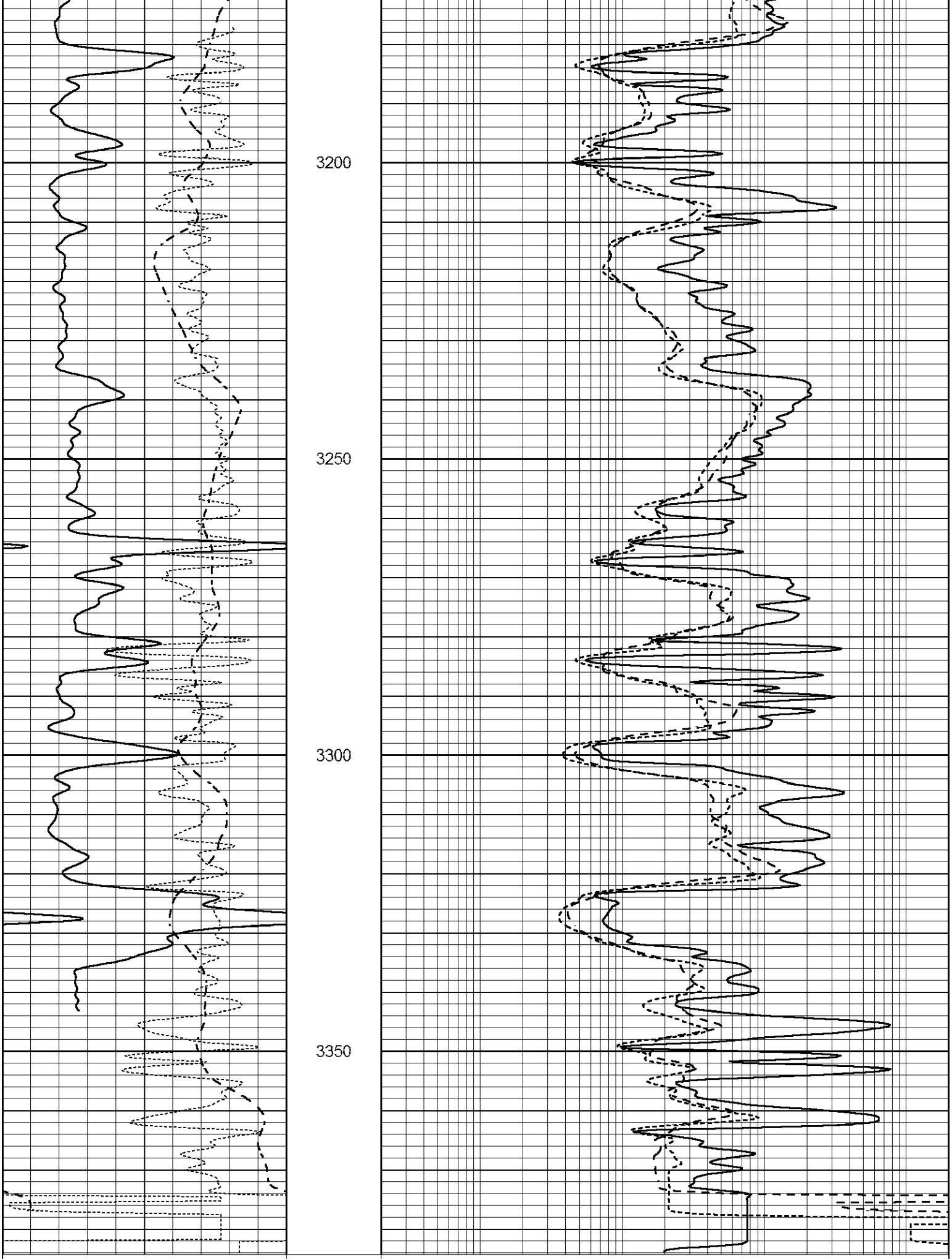
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

REPEAT SECTION

Database File	6385pe.db
Dataset Pathname	pass2.1
Presentation Format	_dil
Dataset Creation	Fri Apr 08 01:10:12 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



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000

Calibration Report

Database File 6385pe.db
Dataset Pathname pass3.3
Dataset Creation Fri Apr 08 01:41:29 2022

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
Surface Cal Performed: Sat Jan 29 11:57:42 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	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: 140704
Model: V4_10P
Source Number: 74GBq-19

Master Calibration

Performed: Fri Feb 18 15:41:27 2022

	Background	Aluminum	Magnesium	
Window 1	515.75	5443.58	23734.91	cps
Window 2	41.45	1226.32	5757.32	cps
Window 4	224.78	1223.03	5315.97	cps
Window 5	549.25	7983.61	15349.73	cps
Window 6	43.12	1271.88	2496.98	cps
Window 8	261.02	2595.65	4928.92	cps

Bulk Density	-	2.6020	1.6830	g/cc
Pe	-	3.0000	2.5070	b/e

LS Alpha:	: -1.8571	SS Alpha:	: -0.7875	LS CPE:	: 1.1396
LS Beta:	: 128618.9672	SS Beta:	: 18780.4869	SS CPE:	: 1.5966

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: Fri Feb 18 15:41:27 2022

Results Readings		References (in)			
Low	High	Low	High	Gain	Offset
8107.9	11082.1	8.0	14.0	0.0	-8.0

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:	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