PIONEER
Pioneer Energy Services

DUAL IND / DUAL COMP POROSITY LOG

Company RITCHIE EXPLORATION, INC.
Well WHITHAM 35ABD NO.1
Field UNKNOWN
County WICHITA State KANSAS

Location: API #: 15-203-20315-00-00
335' FNL & 2470' FEL
SEC 35 TWP 16S RGE 37W

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 3340'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 3345'
D.F. N/A
G.L. 3340'

Date	4/21/17			
Run Number	ONE			
Depth Driller	4950'			
Depth Logger	4951'			
Bottom Logged Interval	4950'			
Top Log Interval	3500'			
Casing Driller	8.625" @ 259'			
Casing Logger	260'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity,ppm CL	7,000			
Density / Viscosity	9.4 54			
pH / Fluid Loss	9.5 9.6			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	.35 @ 68			
Rmf @ Meas. Temp	.26 @ 68			
Rmc @ Meas. Temp	.47 @ 68			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	.19 @ 126			
Operating Rig Time	2 HOURS			
Max Rec. Temp. F	126 DEG/F			
Equipment Number	108			
Location	HAYS			
Recorded By	J. HENRICKSON			
Witnessed By	MAY LOVELY			

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

LEOTI KANSAS
10 NORTH, 1/2 WEST, SOUTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneeres.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. HENRICKSON	Primary Witness: MAY LOVELY
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

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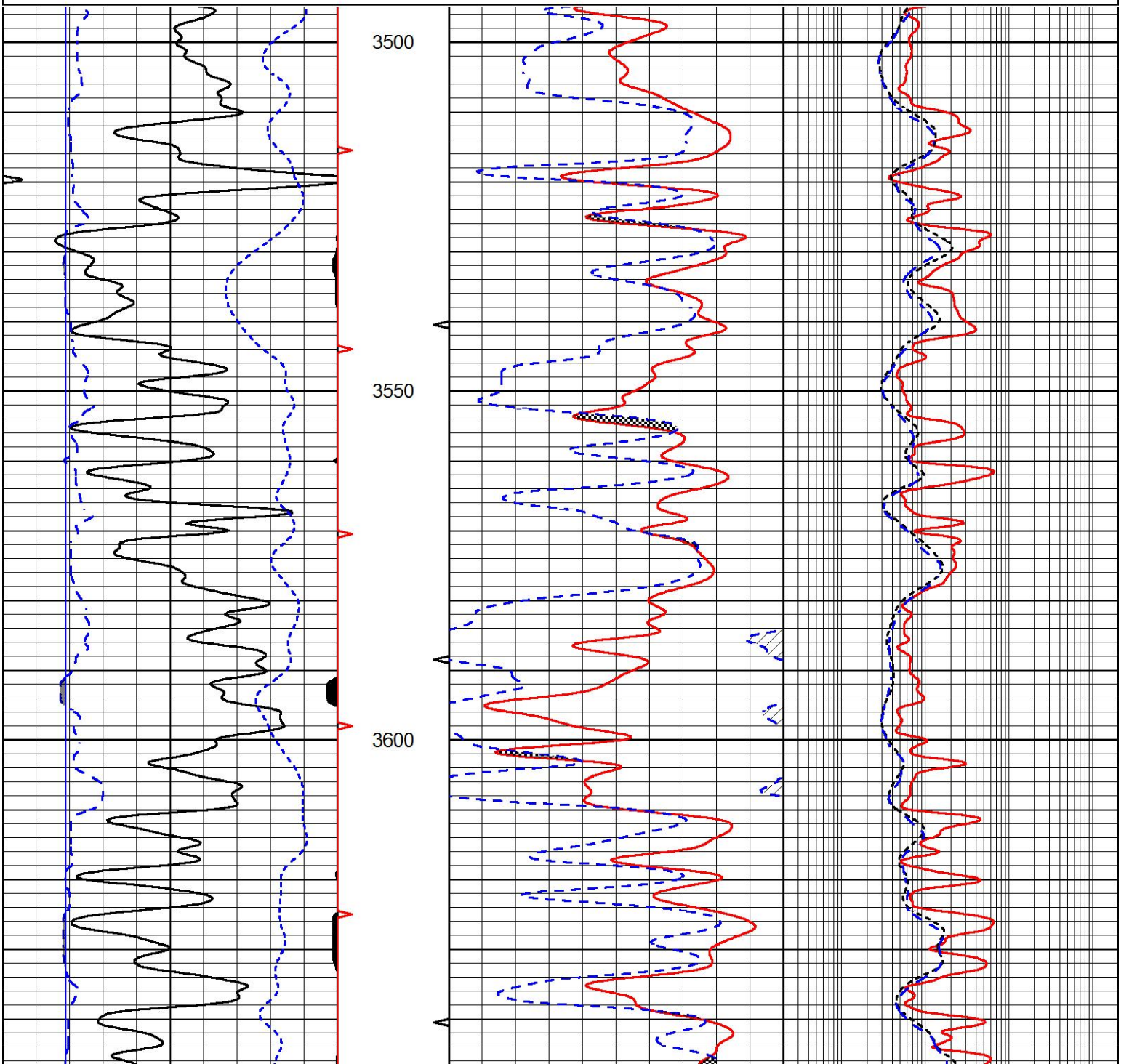
MAIN PASS

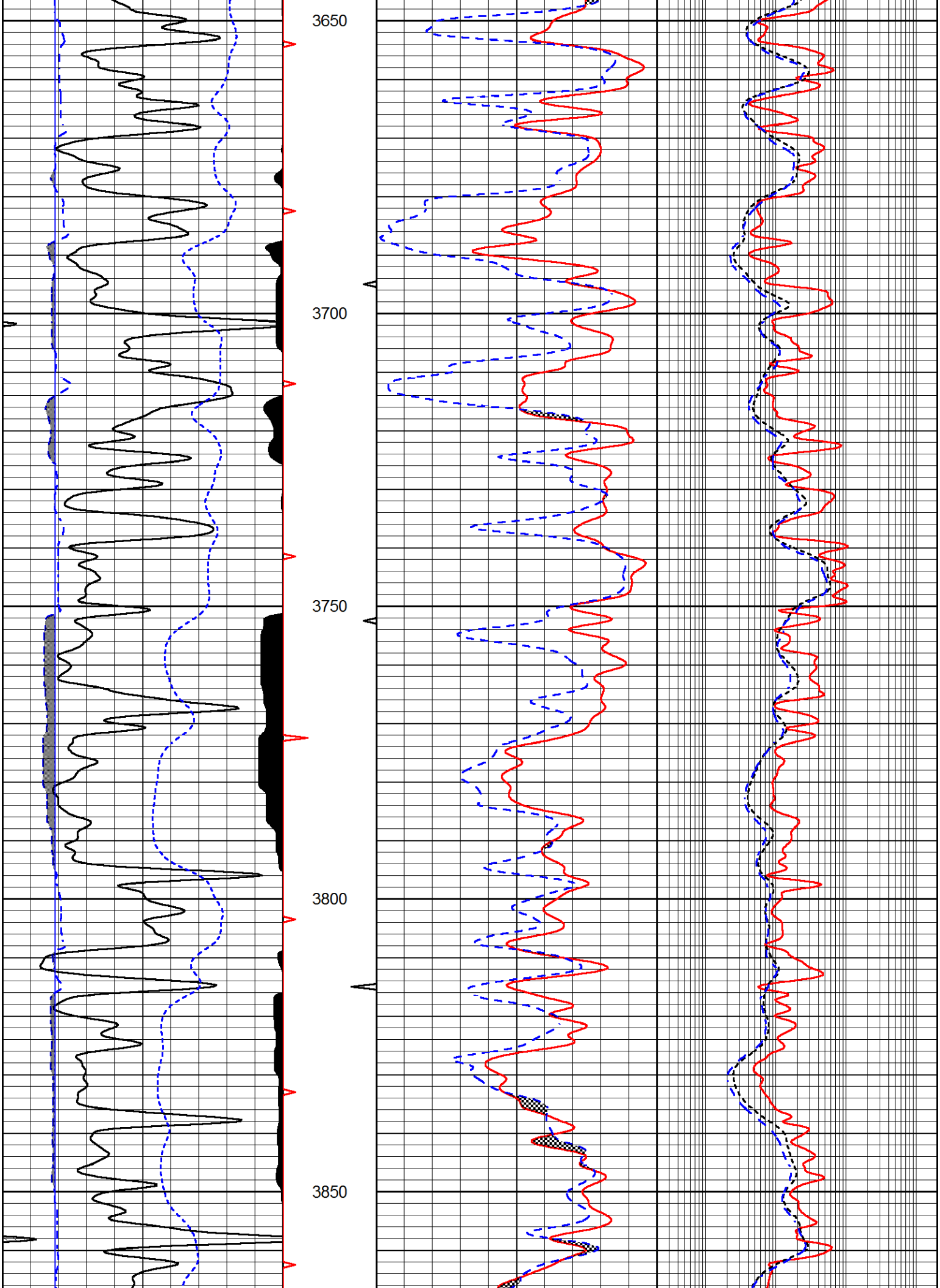
Database File	ritchie_whitham_35abd_1.db
Dataset Pathname	stack/pass3.1
Presentation Format	RITCHC~1
Dataset Creation	Fri Apr 21 01:56:39 2017
Charted by	Depth in Feet scaled 1:240

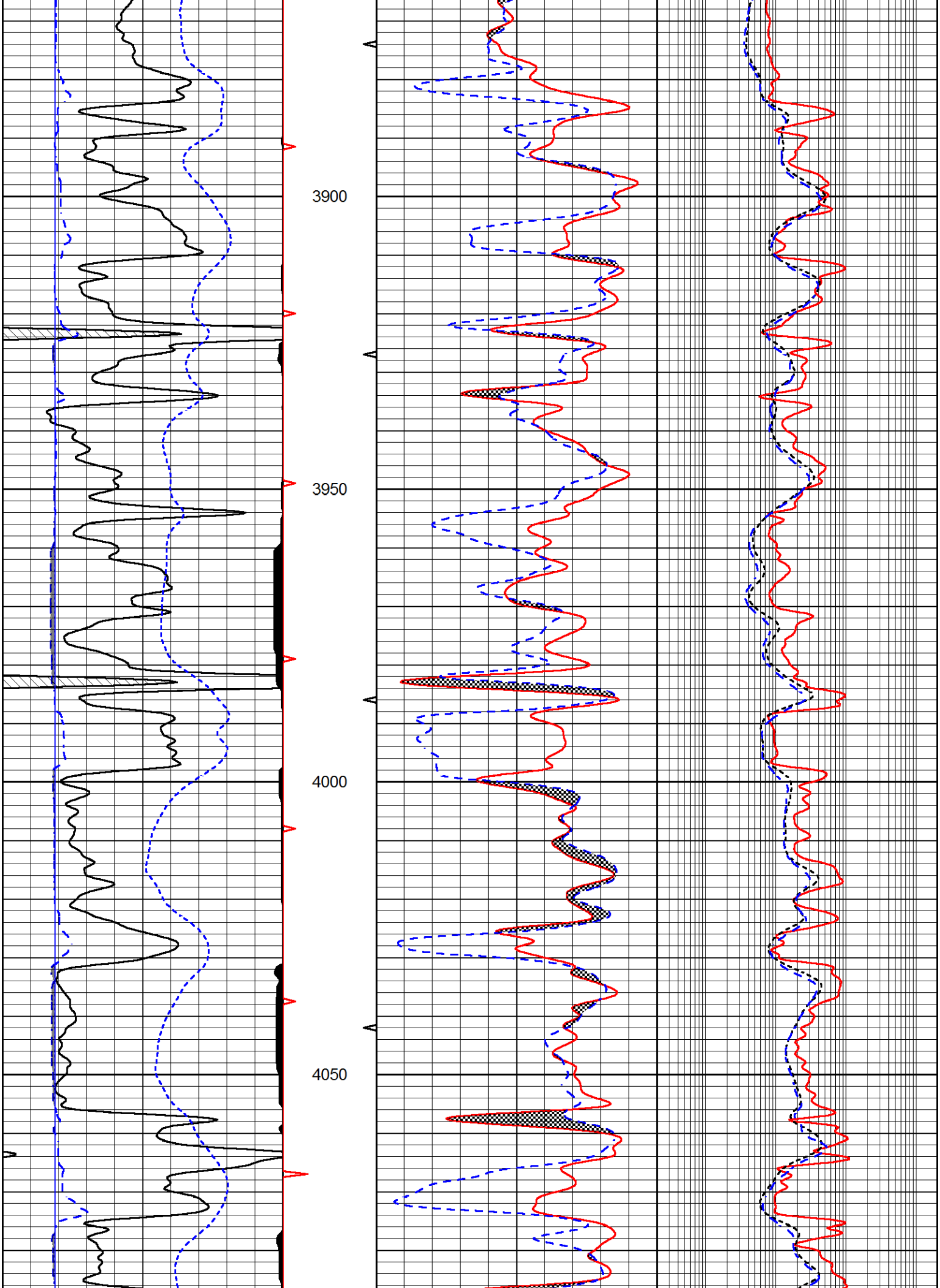
0	GAMMA RAY (GAPI)	150
150	GR (GAPI)	300
6	CALIPER (in)	16
2.875	DCAL (in)	7.875
-200	SP (mV)	0

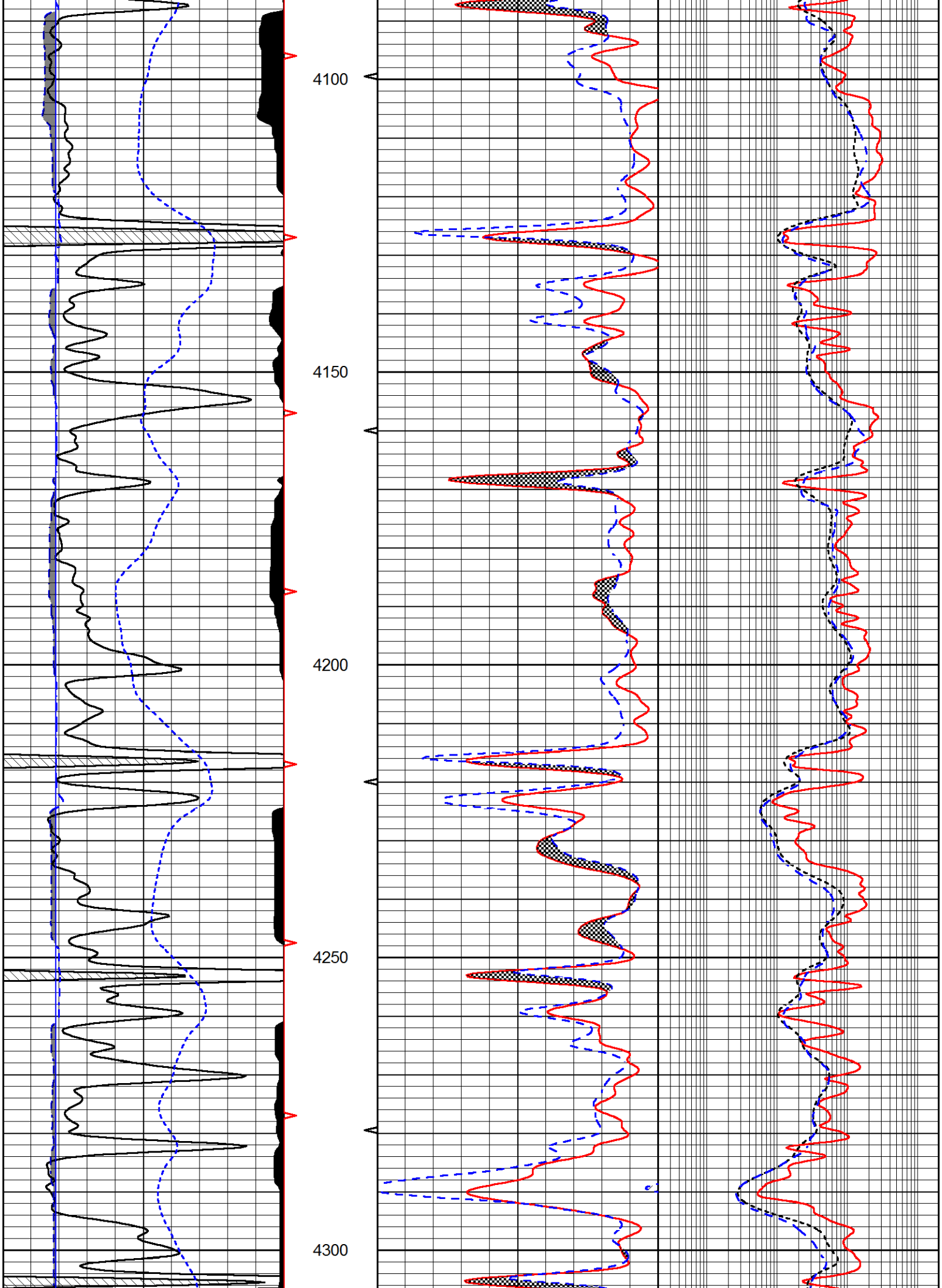
30	DENSITY POROSITY (pu)	0
30	NEUTRON POROSITY (pu)	0

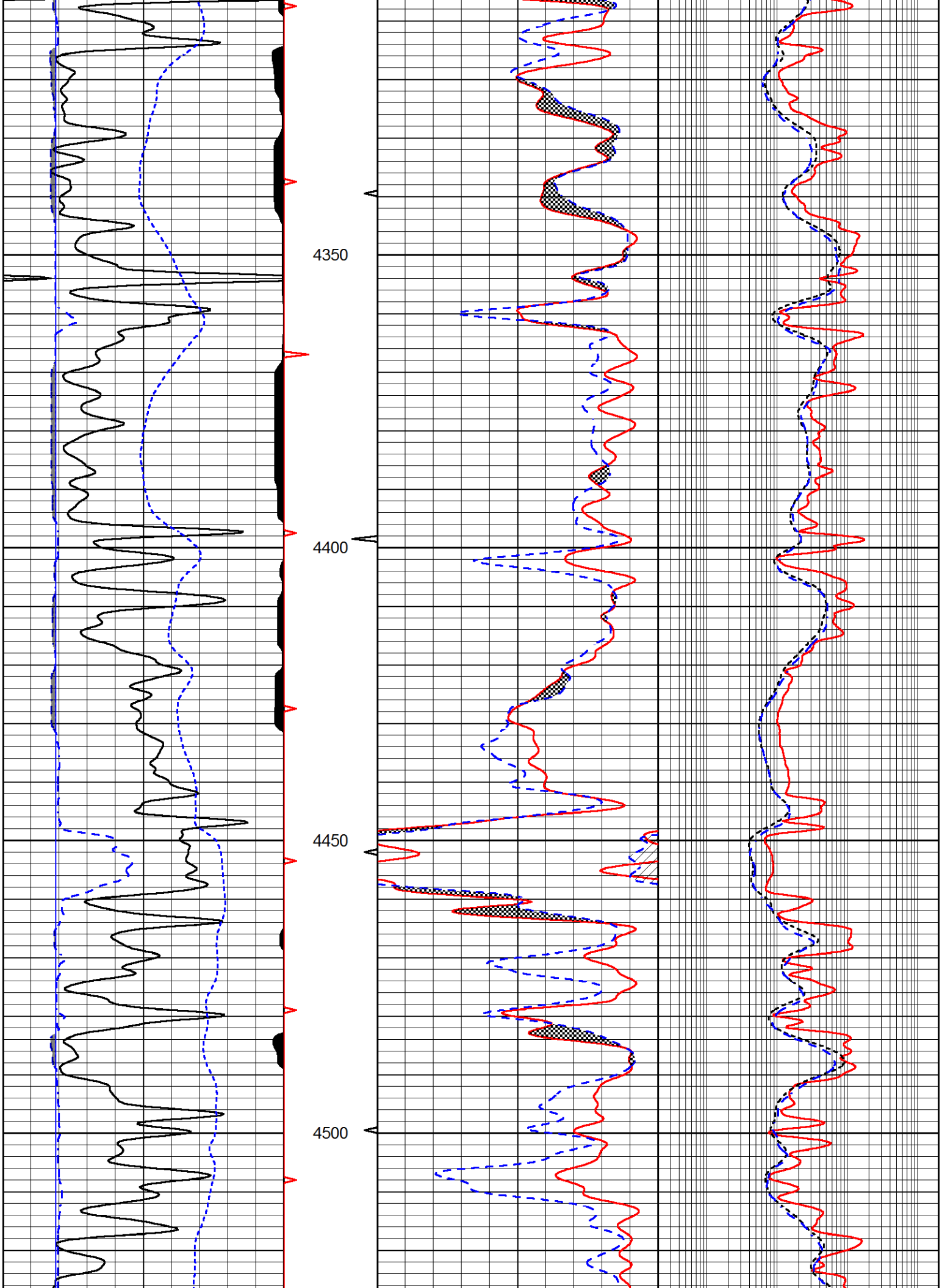
	SHALLOW GUARD	
0.2	(Ohm-m)	2000
	MEDIUM INDUCTION	
0.2	(Ohm-m)	2000
	DEEP INDUCTION	
0.2	(Ohm-m)	2000

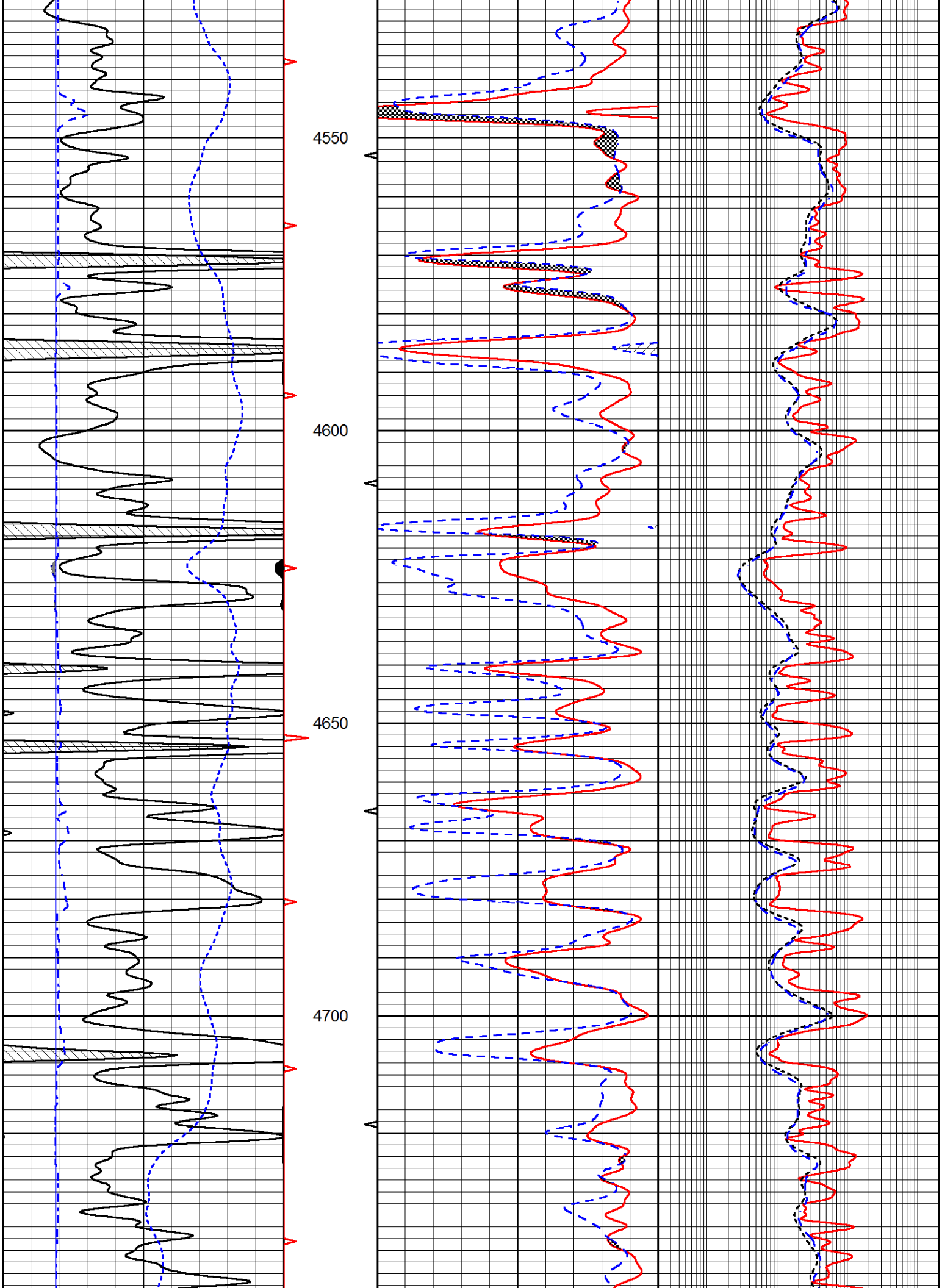


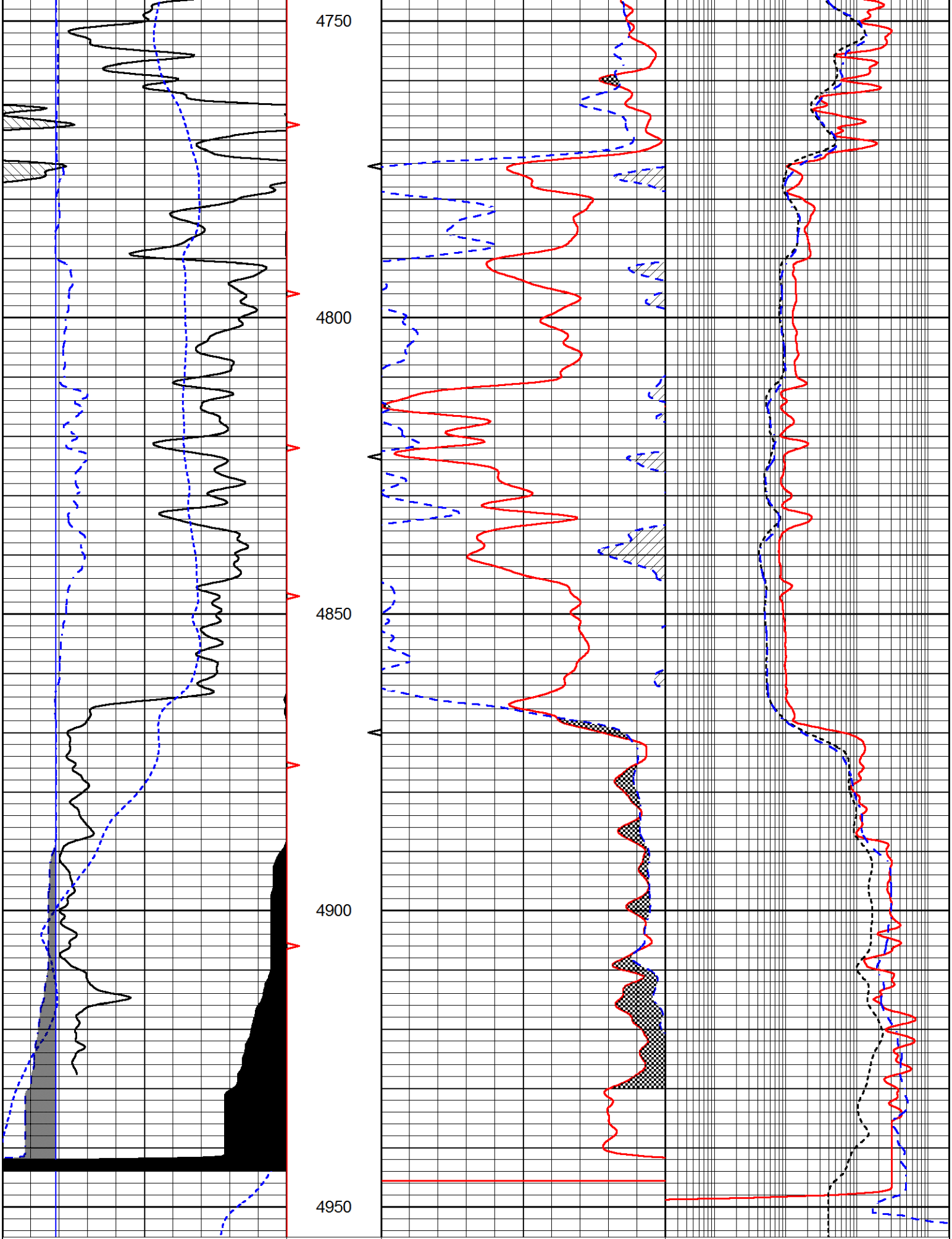

3650
3700
3750
3800
3850


3900
3950
4000
4050


4100
4150
4200
4250
4300


4350
4400
4450
4500


4550
4600
4650
4700


4750
4800
4850
4900
4950
0 GAMMA RAY (GAPI) 150
150 GR (GAPI) 300
30 DENSITY POROSITY (pu) 0
30 NEUTRON POROSITY (pu) 0
SHALLOW GUARD
0.2 (Ohm-m) 2000

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2.875	DCAL (in)	7.875
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	DEEP INDUCTION	
0.2	(Ohm-m)	2000

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