



PIONEER

Pioneer Energy Services

**DUAL COMP POROSITY
MICRO & DUAL IND LOG**

Company RITCHIE EXPLORATION, INC.
Well EATON ENTERPRISES NO. 1
Field WILDCAT
County SCOTT
State KANSAS

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Location: API #: 15-171-21226-00-00

Other Services

1118' FNL & 736' FWL
SEC 30 TWP 16S RGE 31W

NONE

Permanent Datum GROUND LEVEL Elevation 2956'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2967'
D.F. N/A
G.L. 2956'

Date 7/11/2018

Run Number ONE

Type Log CNL/CDL/ML/DIL

Depth Driller 4730'

Depth Logger 4730'

Bottom Logged Interval 4729'

Top Logged Interval 3500'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 5500

Density 9.4

Level FULL

Max. Rec. Temp. F 123 DEG/F

Operating Rig Time 2 HOURS

Equipment -- Location 108 HAYS

Recorded By J. HENRICKSON

Witnessed By KENT MATSON

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	266'	8.625"	23#	0	266'
TWO	7.875"	266'	TD				

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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.

HEALY KANSAS

WEST TO RODEO ROAD, 3 NORTH, 1/8 EAST, SOUTH INTO

Log Measured From: KELLY BUSHING 11 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

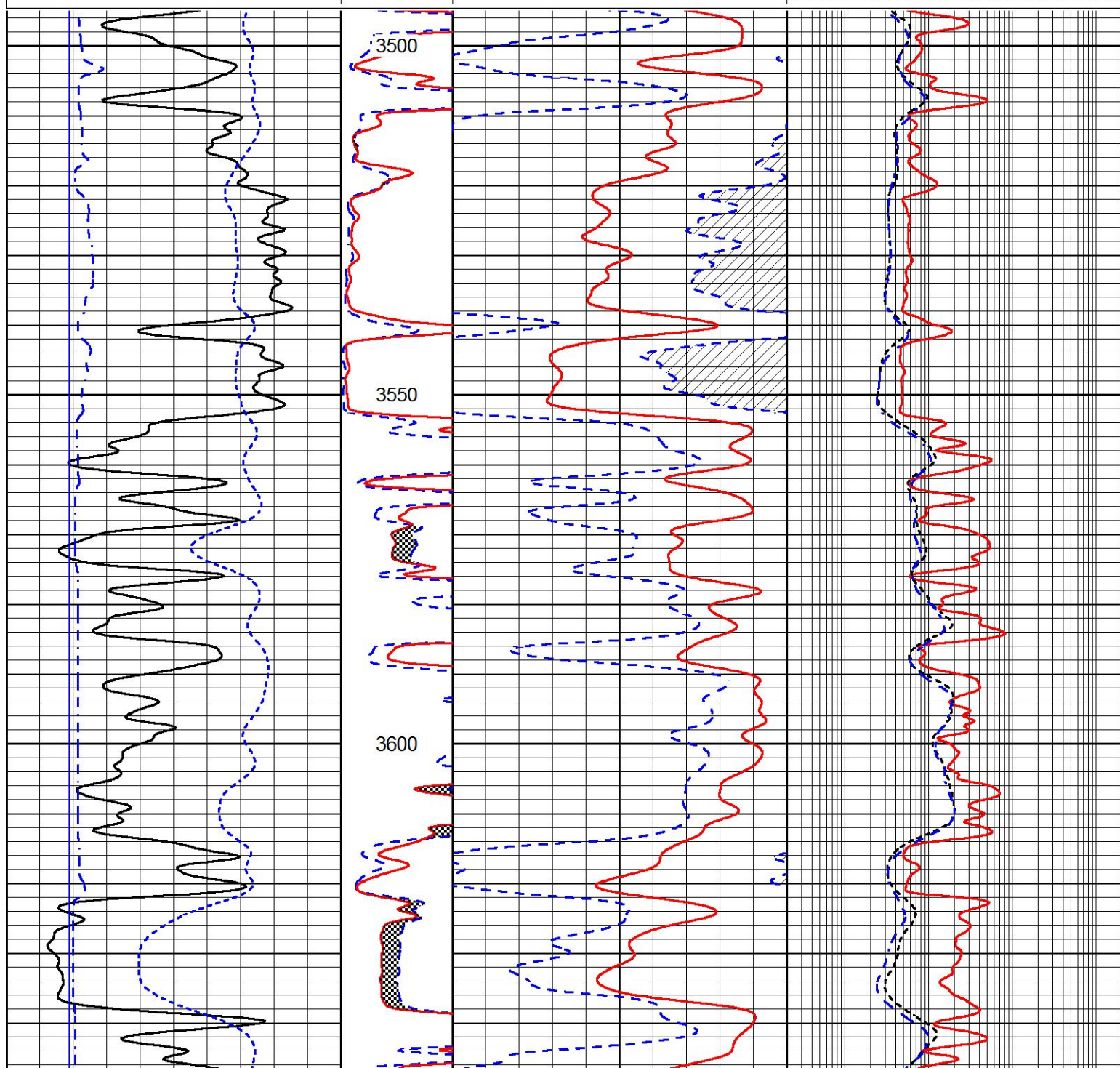
This Log Record Was Witnessed By

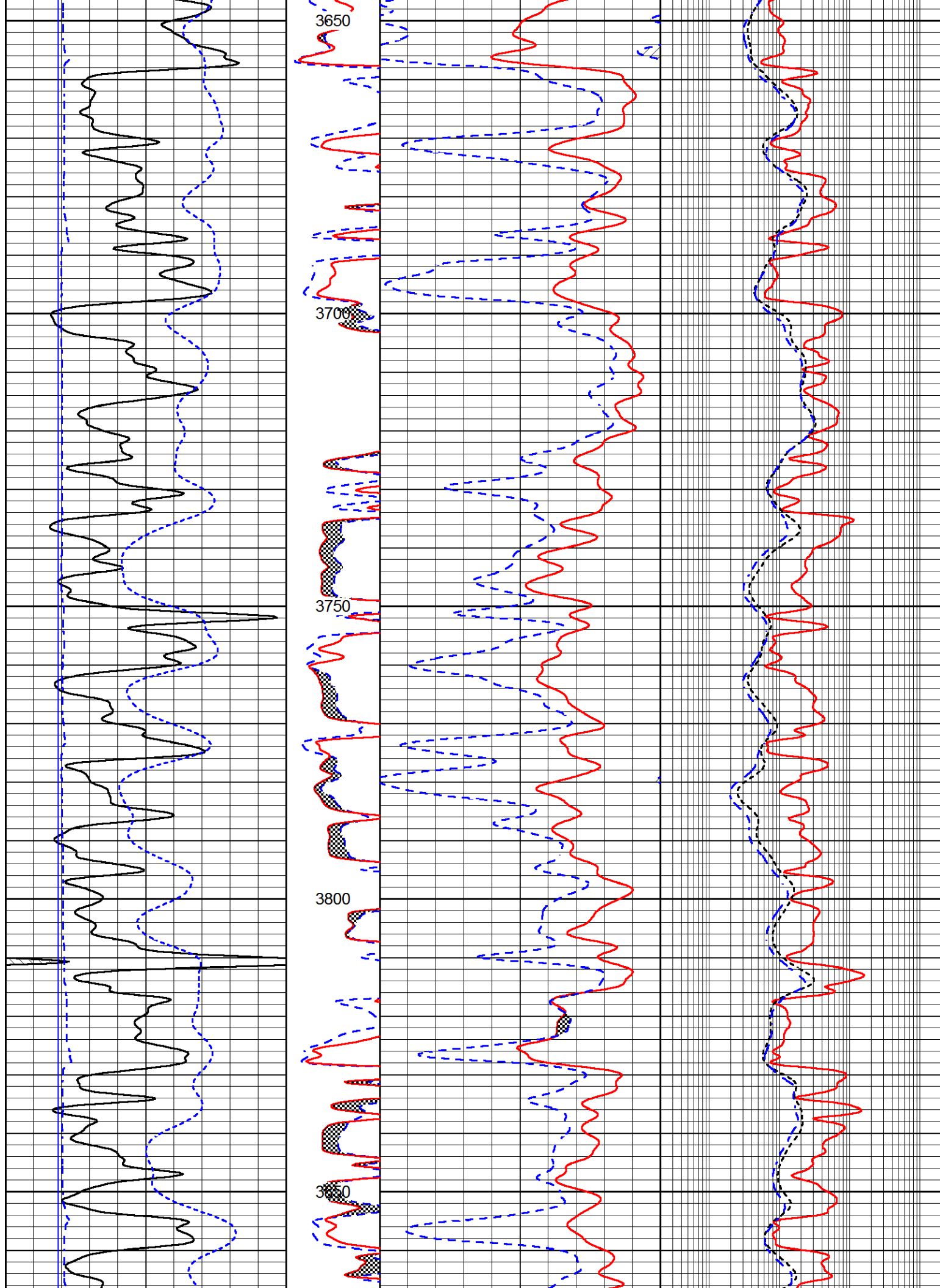
Primary Witness: KENT MATSON
Secondary Witness:
Secondary Witness:
Secondary Witness:

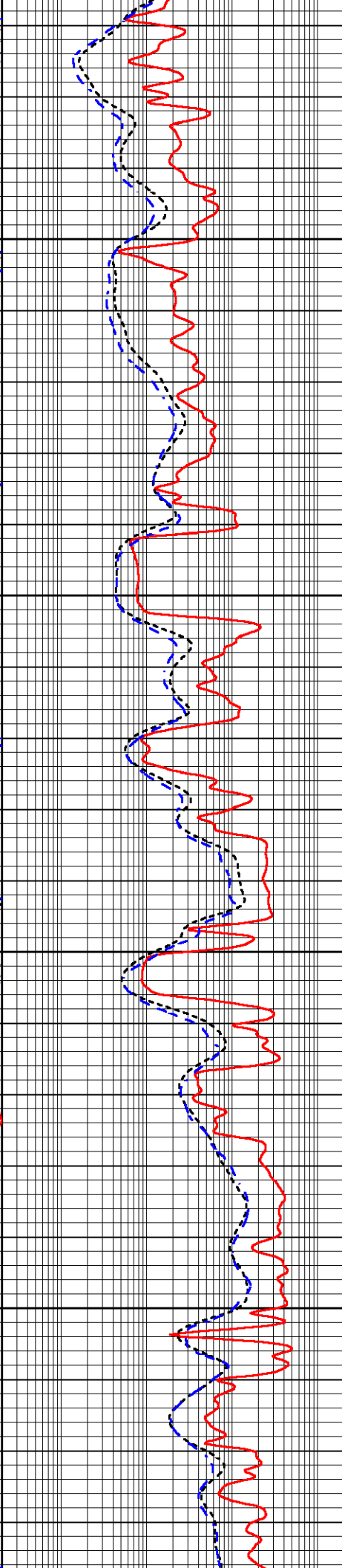
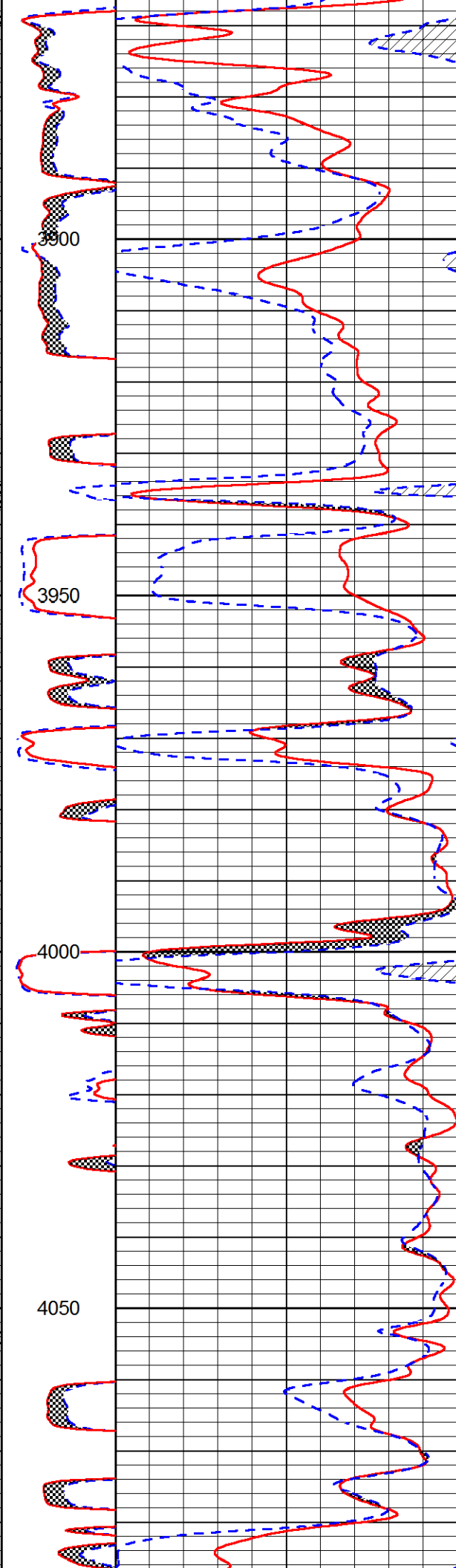
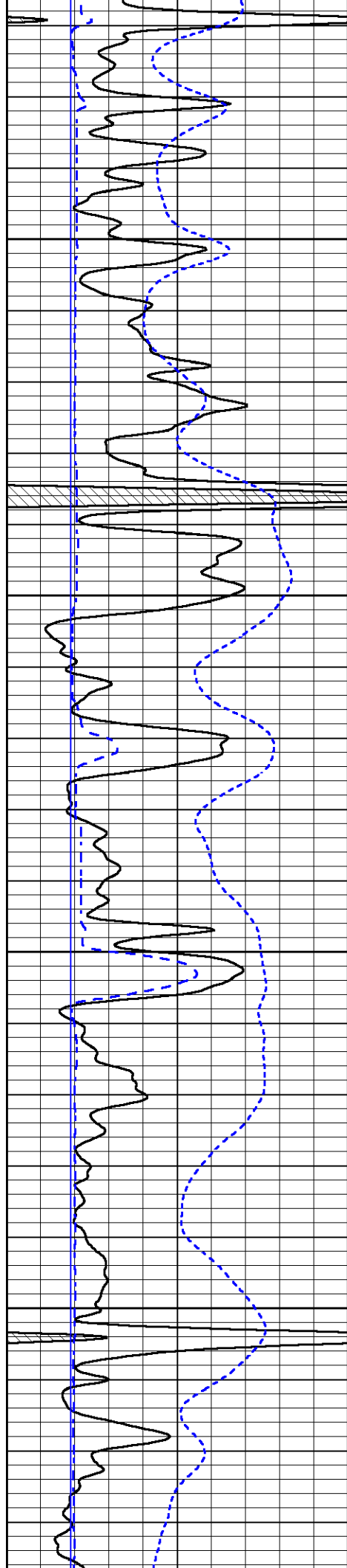
MAIN PASS

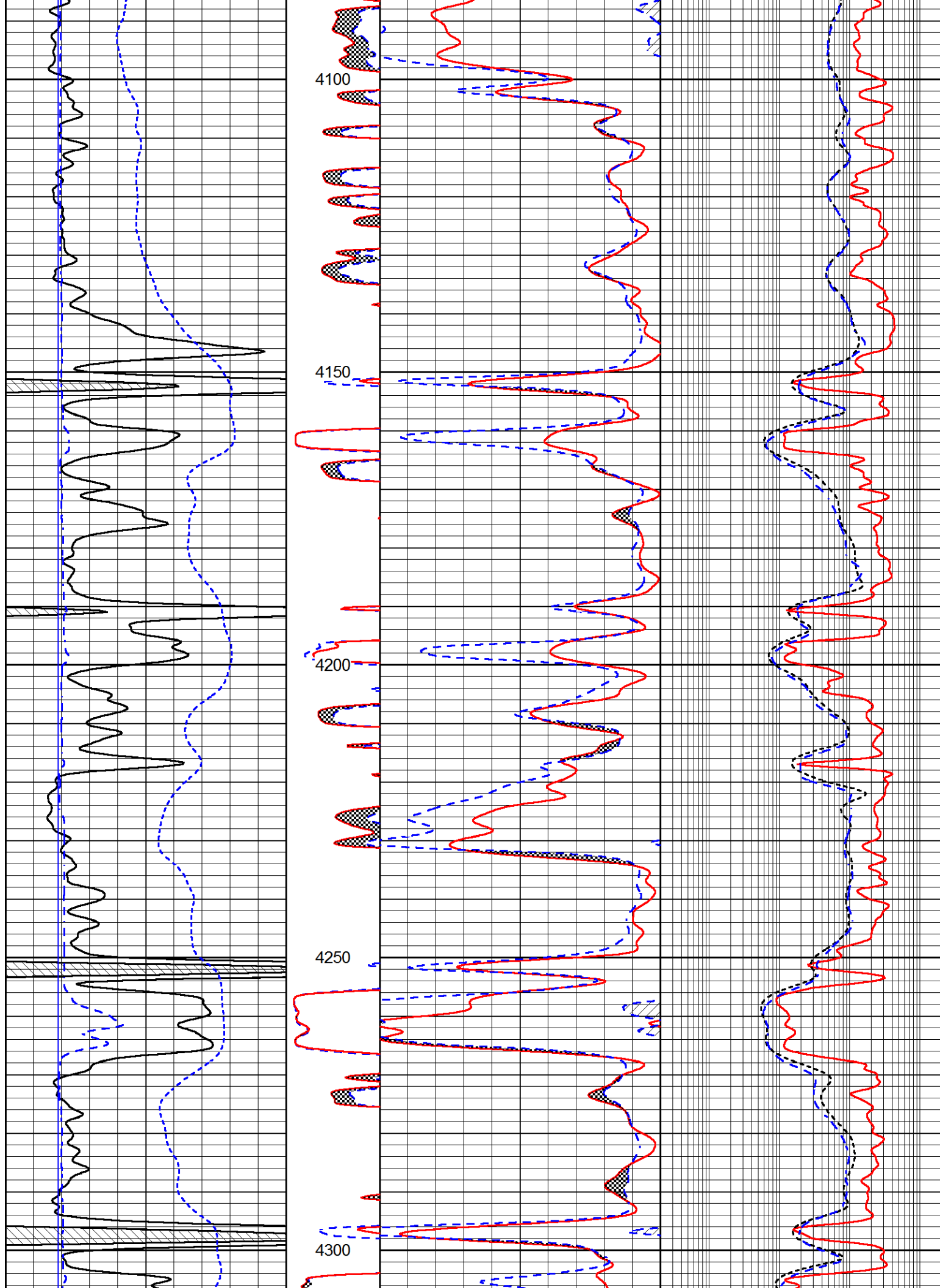
Database File ritchie_eaton_enterprises_1.db
Dataset Pathname stackml/pass3.1
Presentation Format RITCHC~1
Dataset Creation Wed Jul 11 12:54:44 2018
Charted by Depth in Feet scaled 1:240

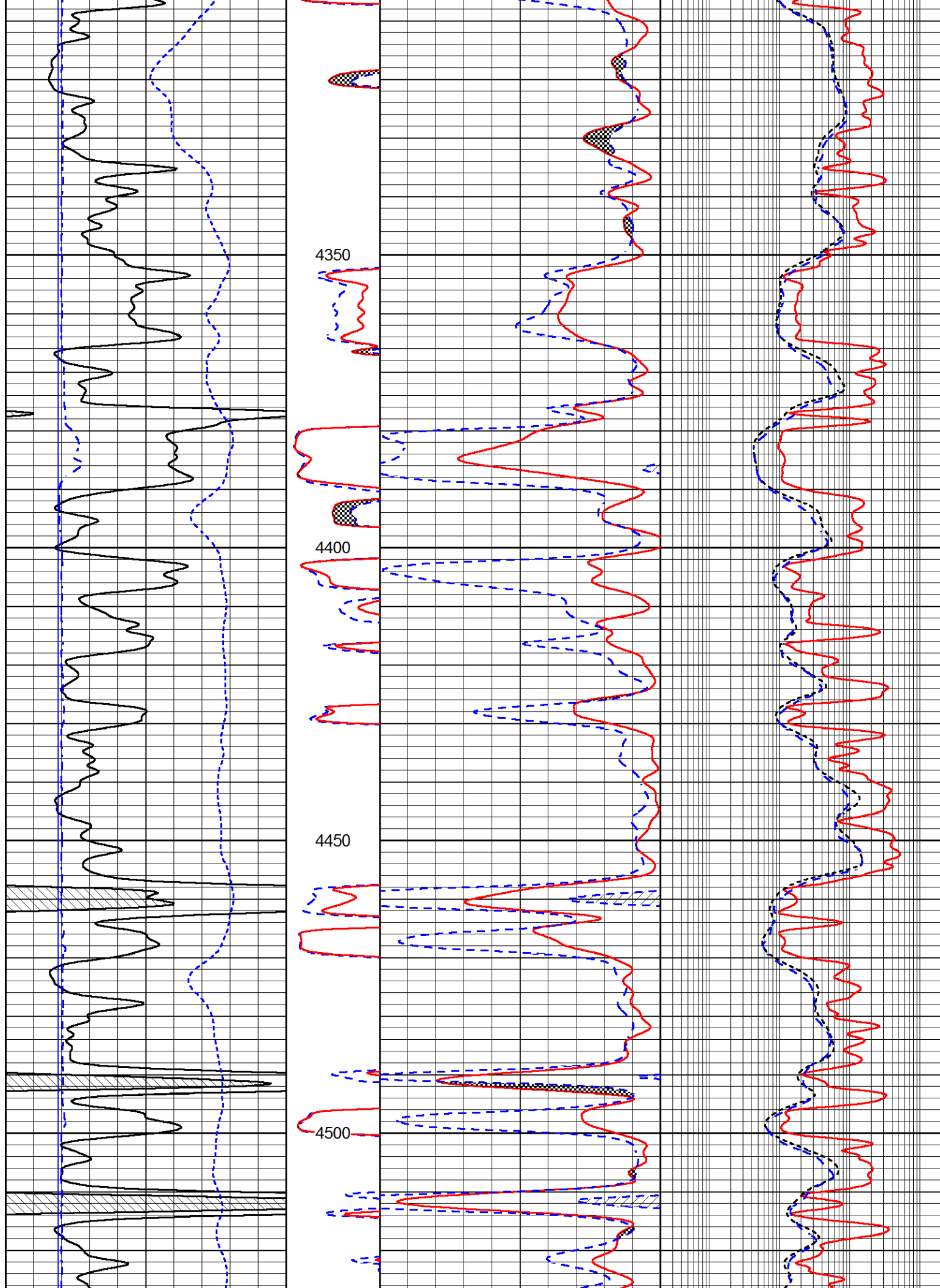
0	GAMMA RAY (GAPI)	150	MN	30	DENSITY POROSITY (pu)	0	SHALLOW GUARD
150	GR (GAPI)	300	(Ohm-m)	30	NEUTRON POROSITY (pu)	0	(Ohm-m) 2000
6	CALIPER (in)	16	0 20				MEDIUM INDUCTION
2.875	DCAL (in)	7.875	MI			0.2	(Ohm-m) 2000
-200	SP (mV)	0	(Ohm-m)				DEEP INDUCTION
			0 20			0.2	(Ohm-m) 2000

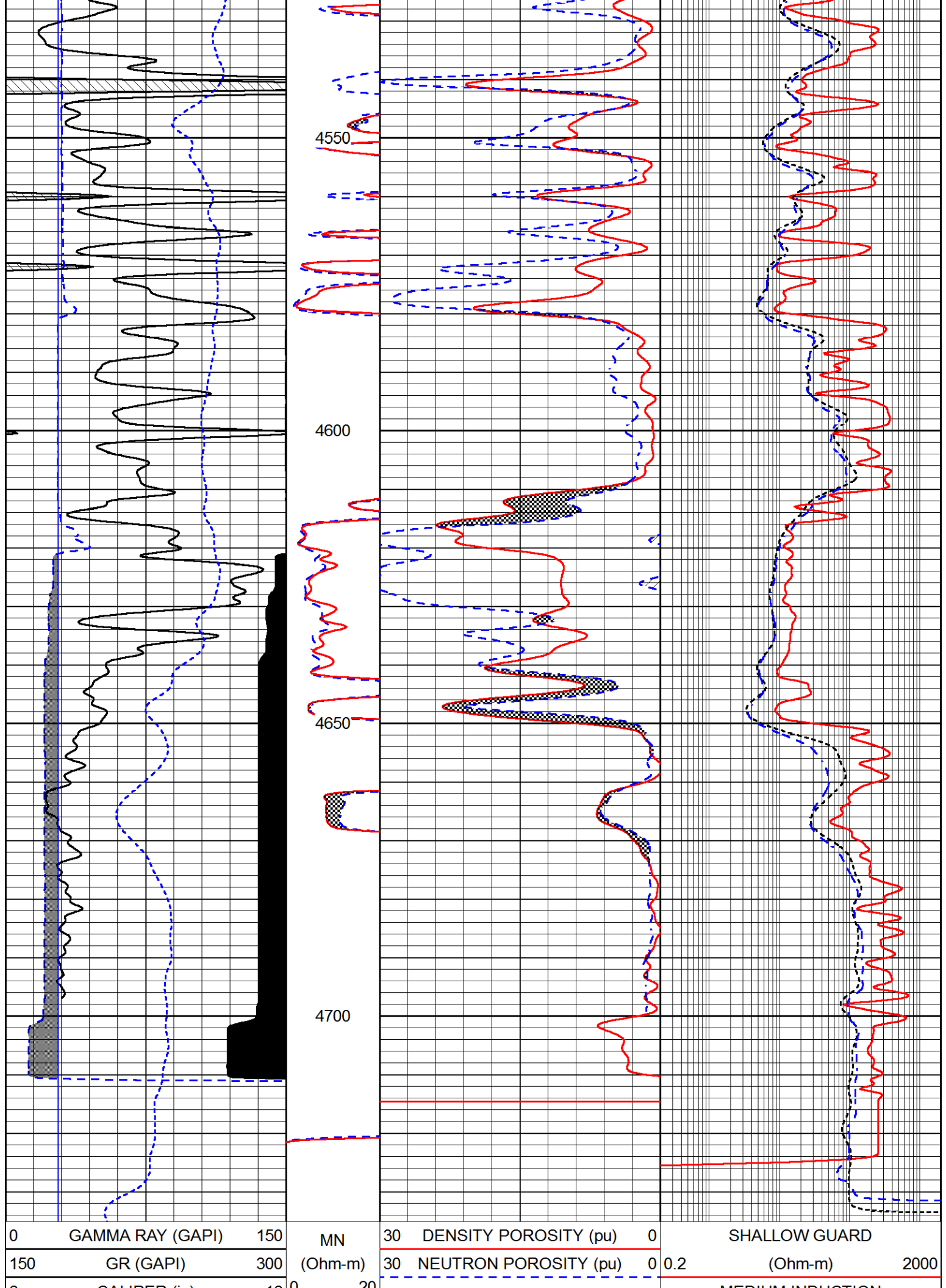












6	CALIPER (in)	16	0	20
2.875	DCAL (in)	7.875	MI	
-200	SP (mV)	0	(Ohm-m)	
		0	20	

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