



Pioneer Energy Services

Dual Compensated Porosity Micro Log

API No.

15-009-25,954-00-00

Company F.G. Holl Company, L.L.C.

Well Romine Trust # 3-1

Field Clarence

County Barton

State Kansas

Location 1060' FSL & 1300' FEL

Sec: 1

Tw: 20 S

Rge: 15 W

Permanent Datum Ground Level Elevation 1955
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services
DIL/BHCS

Elevation
K.B. 1963
D.F. 1955
G.L. 1955

Date 03-25-2013

Run Number One

Type Log CNL / CDL / MICRO

Depth Driller 3800

Depth Logger 3800

Bottom Logged Interval 3799

Top Logged Interval 1750

Type Fluid In Hole Chemical

Salinity, PPM CL 6800

Density 9.2

Level Full

Max. Rec. Temp. F 114

Operating Rig Time 5 1/2 Hours

Equipment -- Location 15 Days

Recorded By Y. Ruiz

Witnessed By Rene Husted

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 905 8.625 23# 00 905

Two 7.875 905 TD

<<< Fold Here >>>

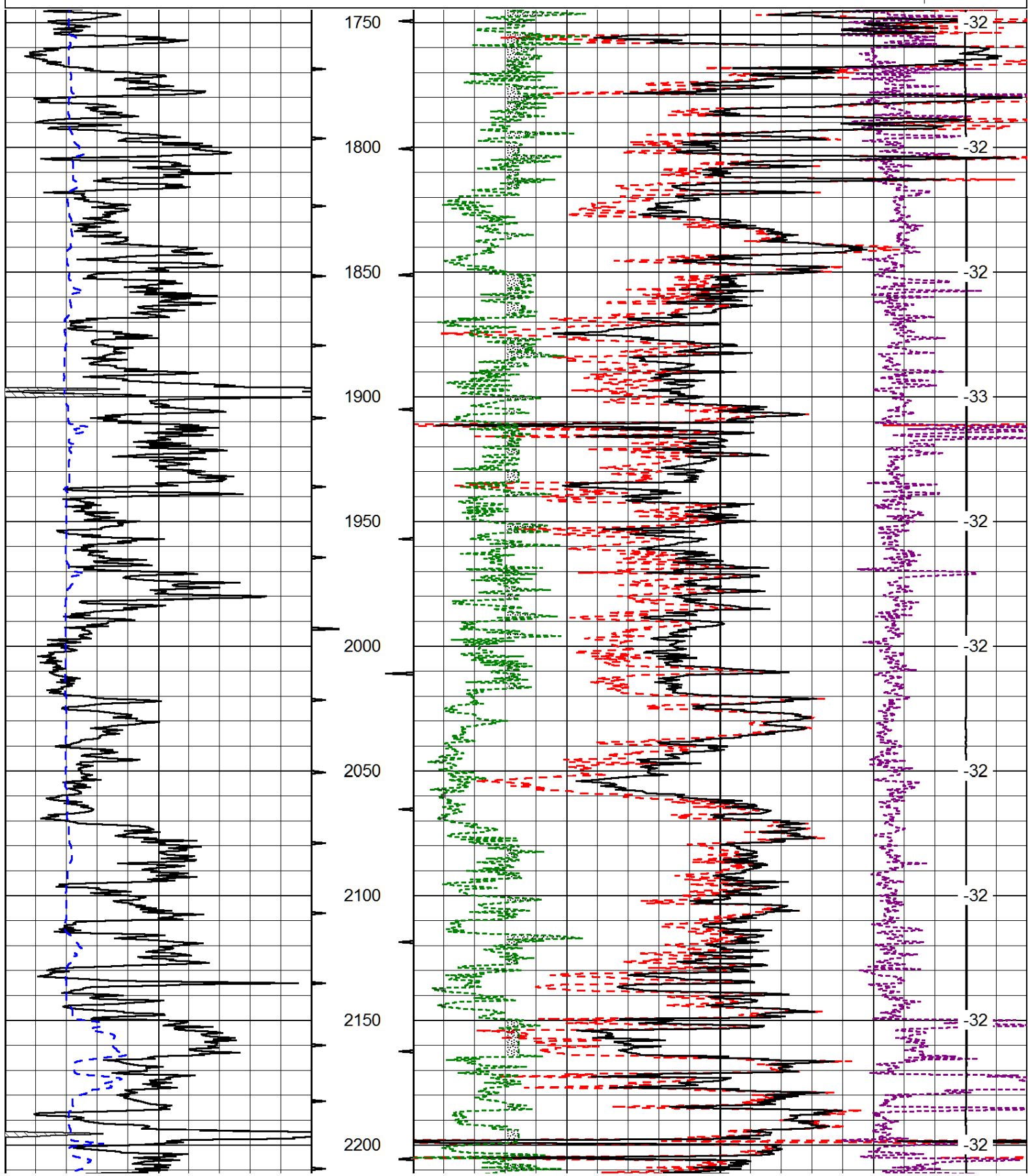
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

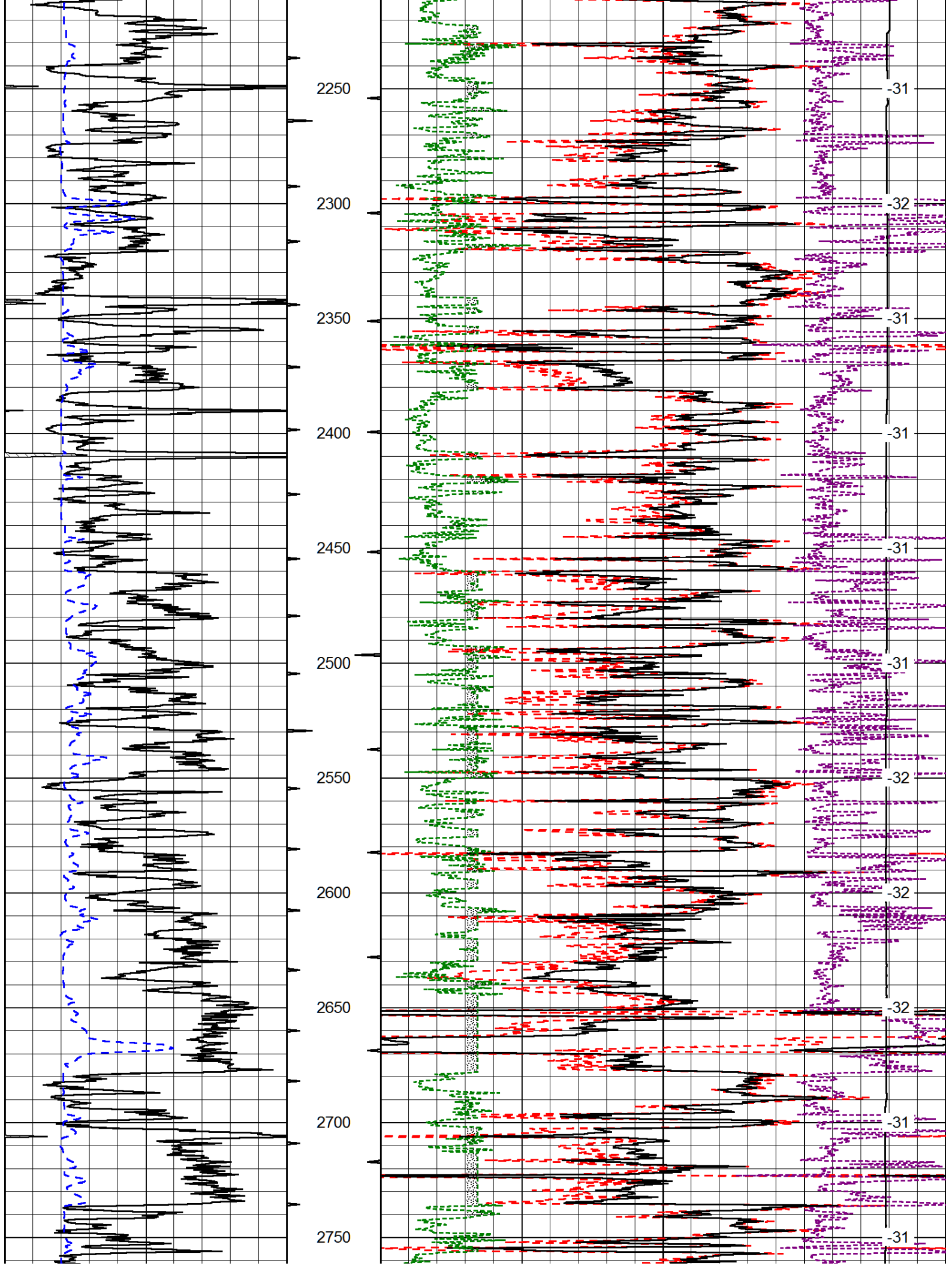
Comments

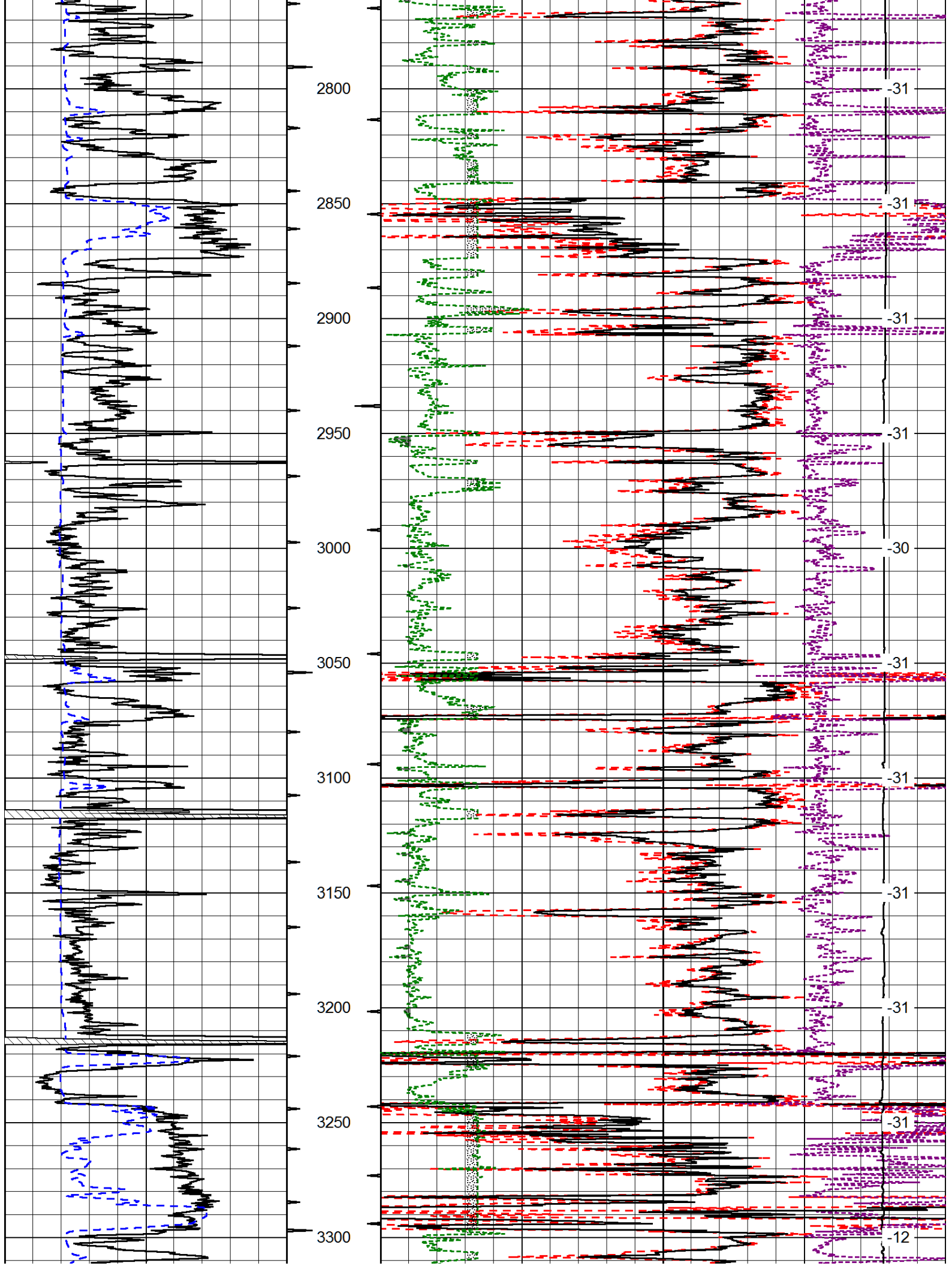
Thank you for using Log-Tech, Inc.
(785) 625-3858

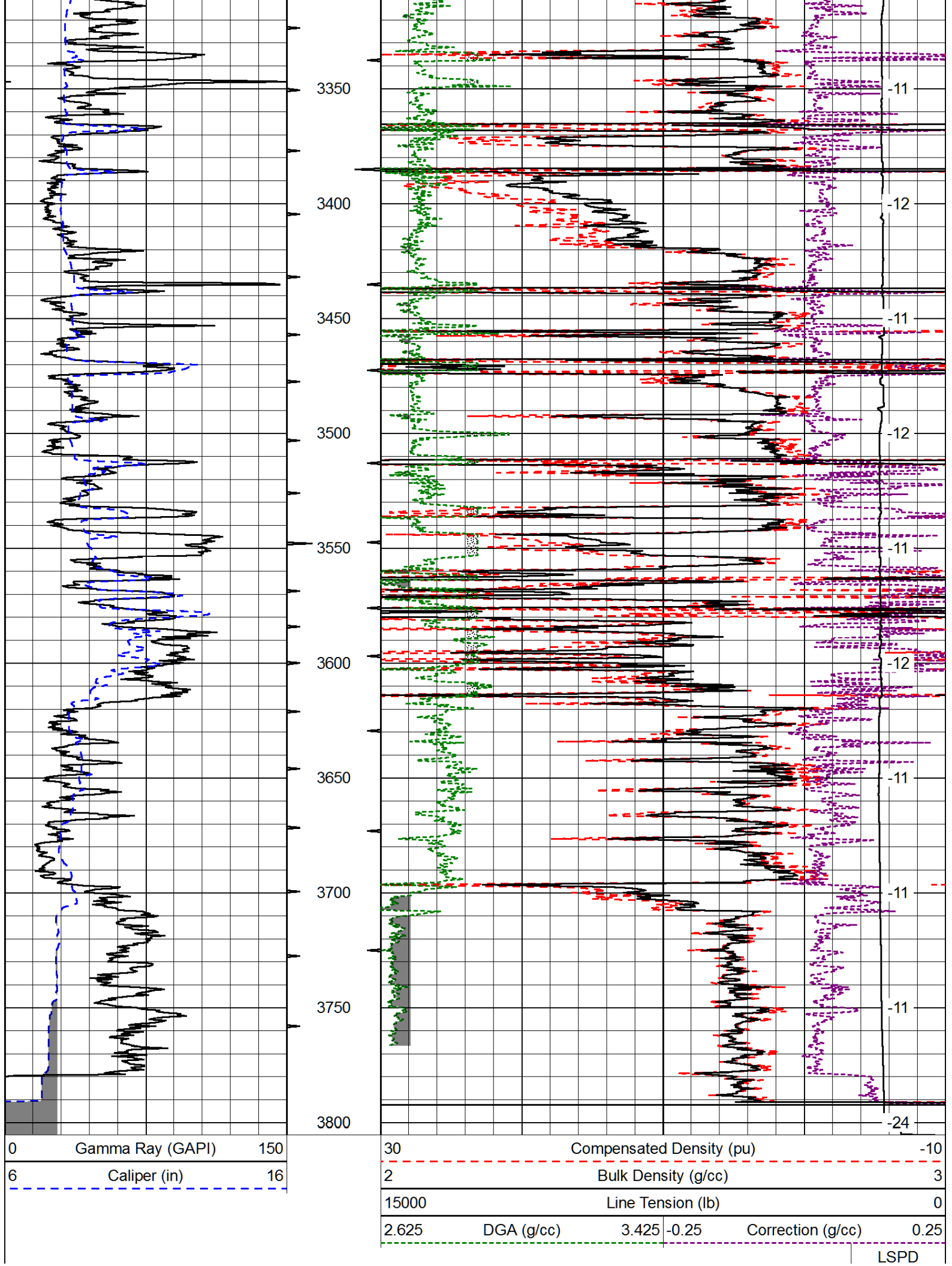
Heizer,
6 South, 2 1/2 West,
North and East into

Database File: fgholl_romine_hd.db
Dataset Pathname: DIL/fgstk
Presentation Format: cdl
Dataset Creation: Tue Mar 25 12:05:27 2014
Charted by: Depth in Feet scaled 1:600









Database File: fgholl_romine_hd.db
Dataset Pathname: DIL/fgstk
Presentation Format: cndlspml
Dataset Creation: Tue Mar 25 12:05:27 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-200	SP (mV)	0

30	Compensated Neutron (pu)	-10
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30	Compensated Density (pu)	-10
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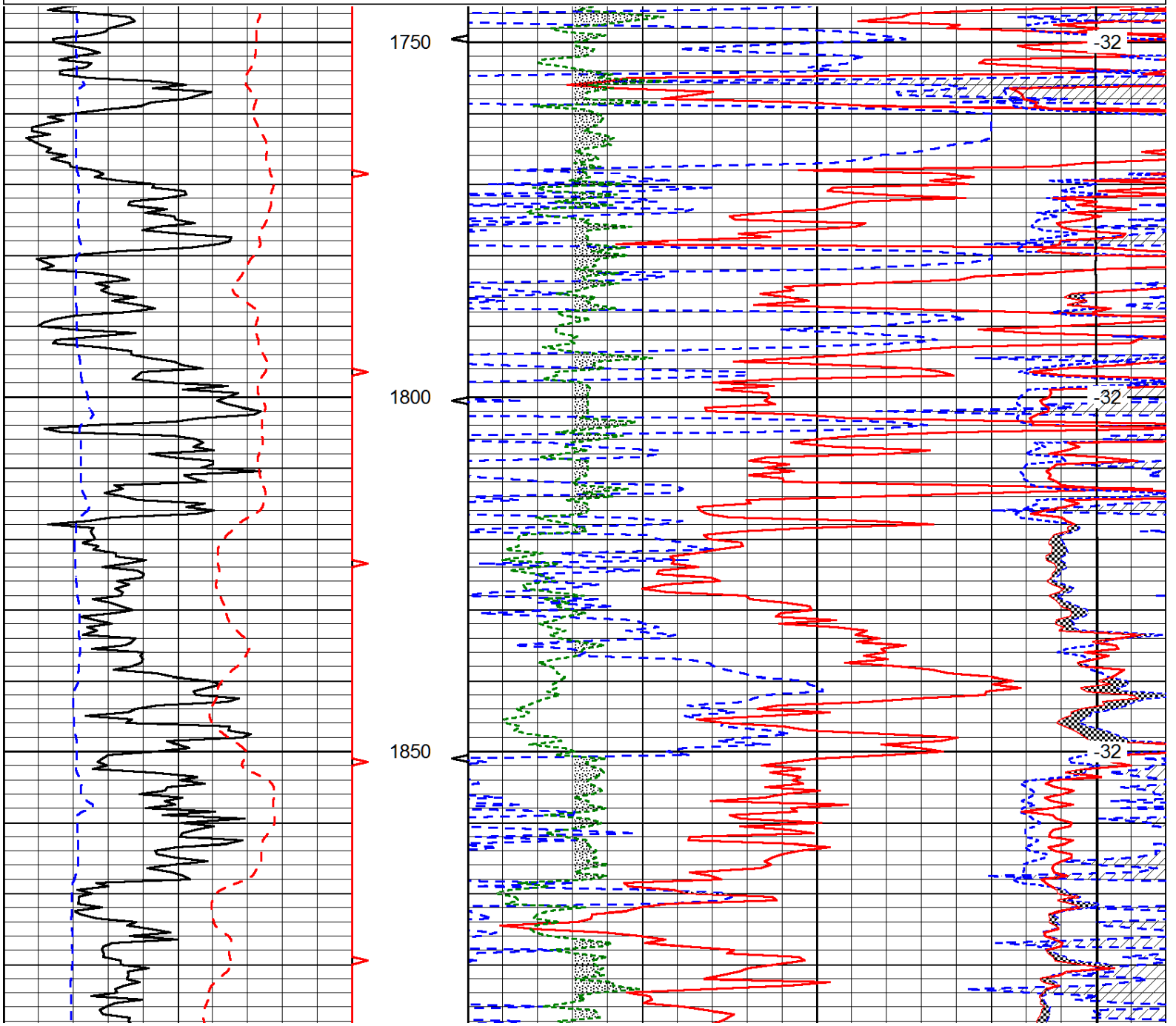
2.625	DGA (g/cc)	3.425	Micro Normal
			0 (Ohm-m) 20

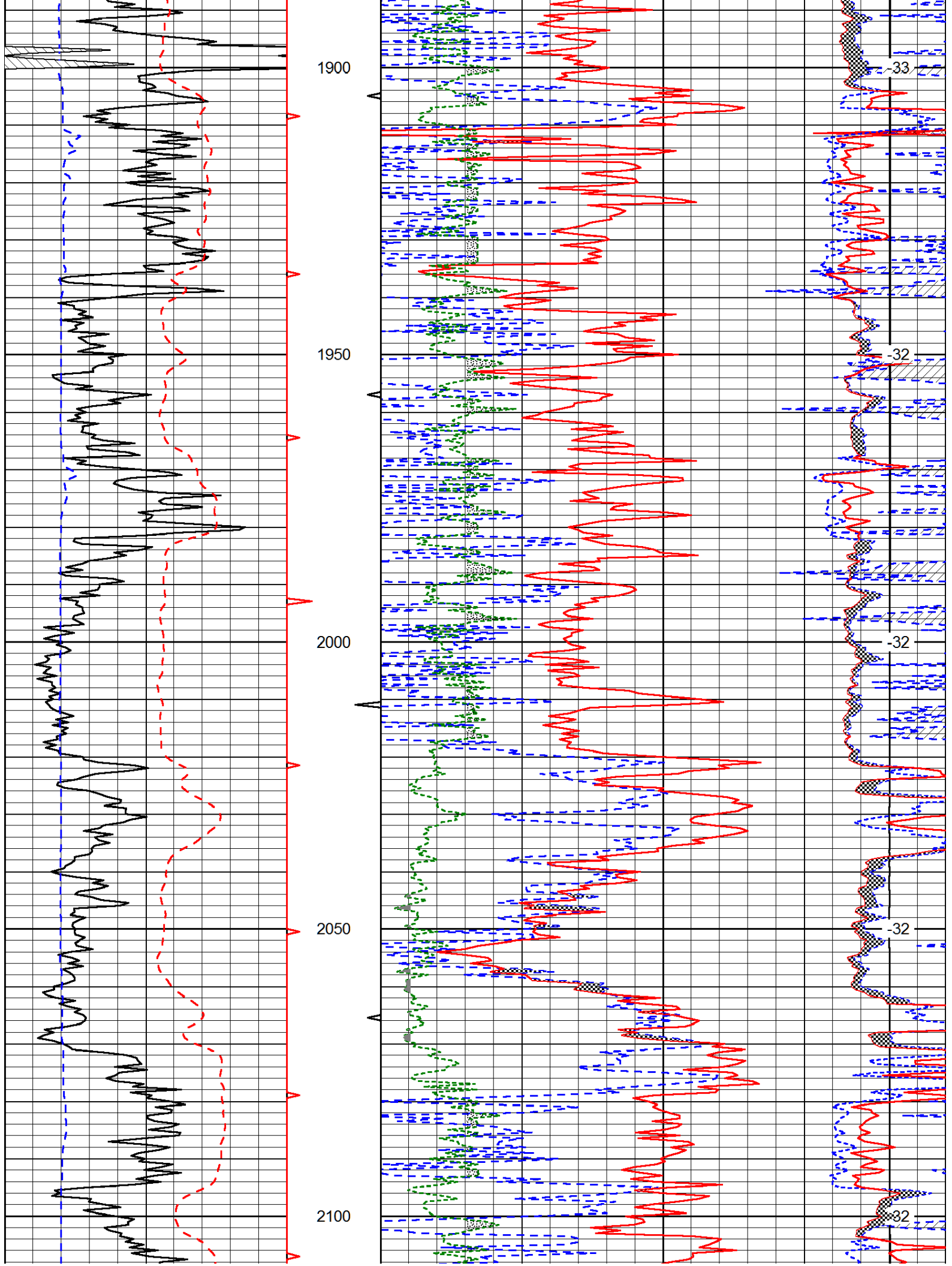
15000	Line Tension (lb)	0
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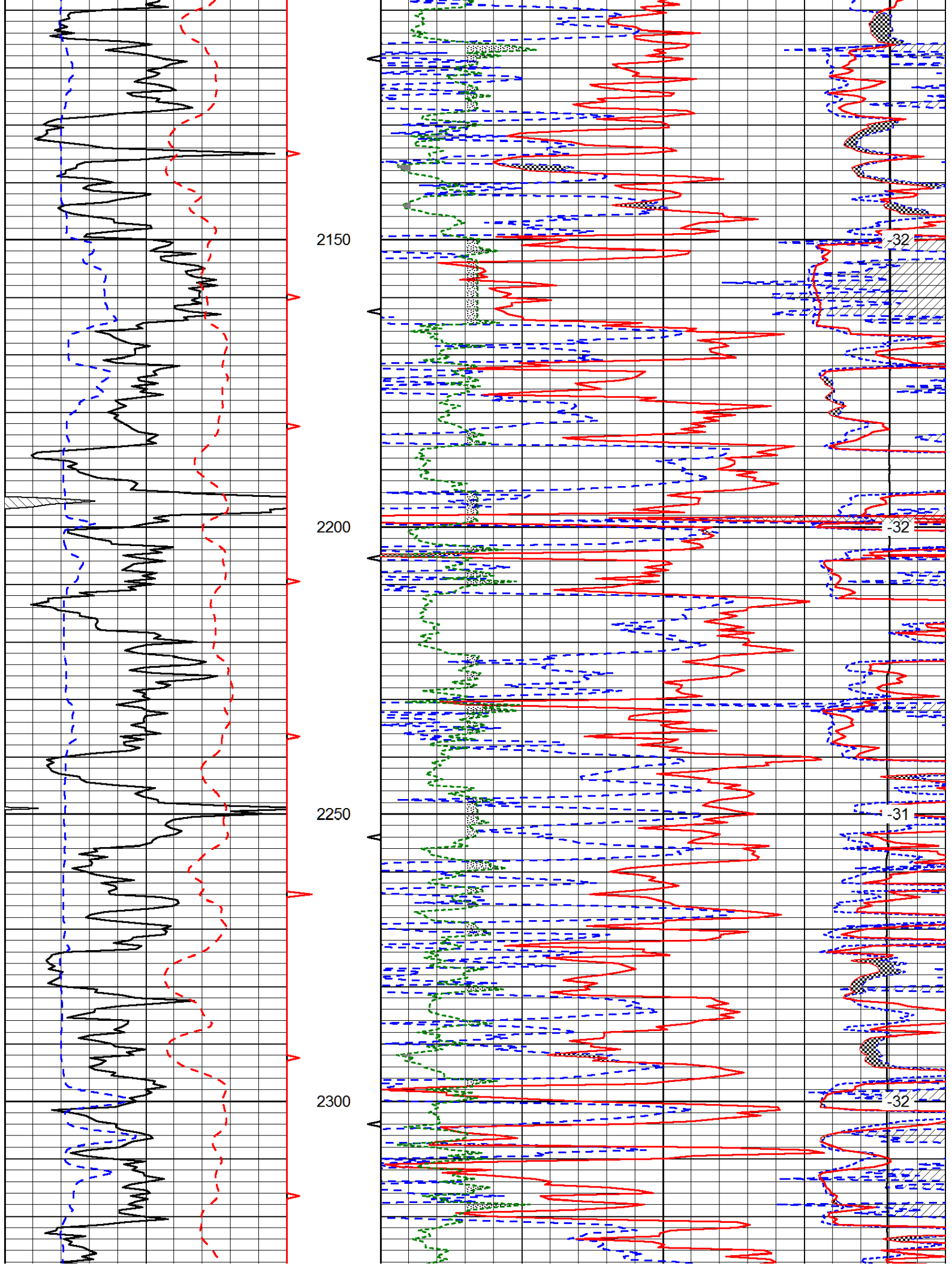
	Micro Inverse
0	(Ohm-m) 20

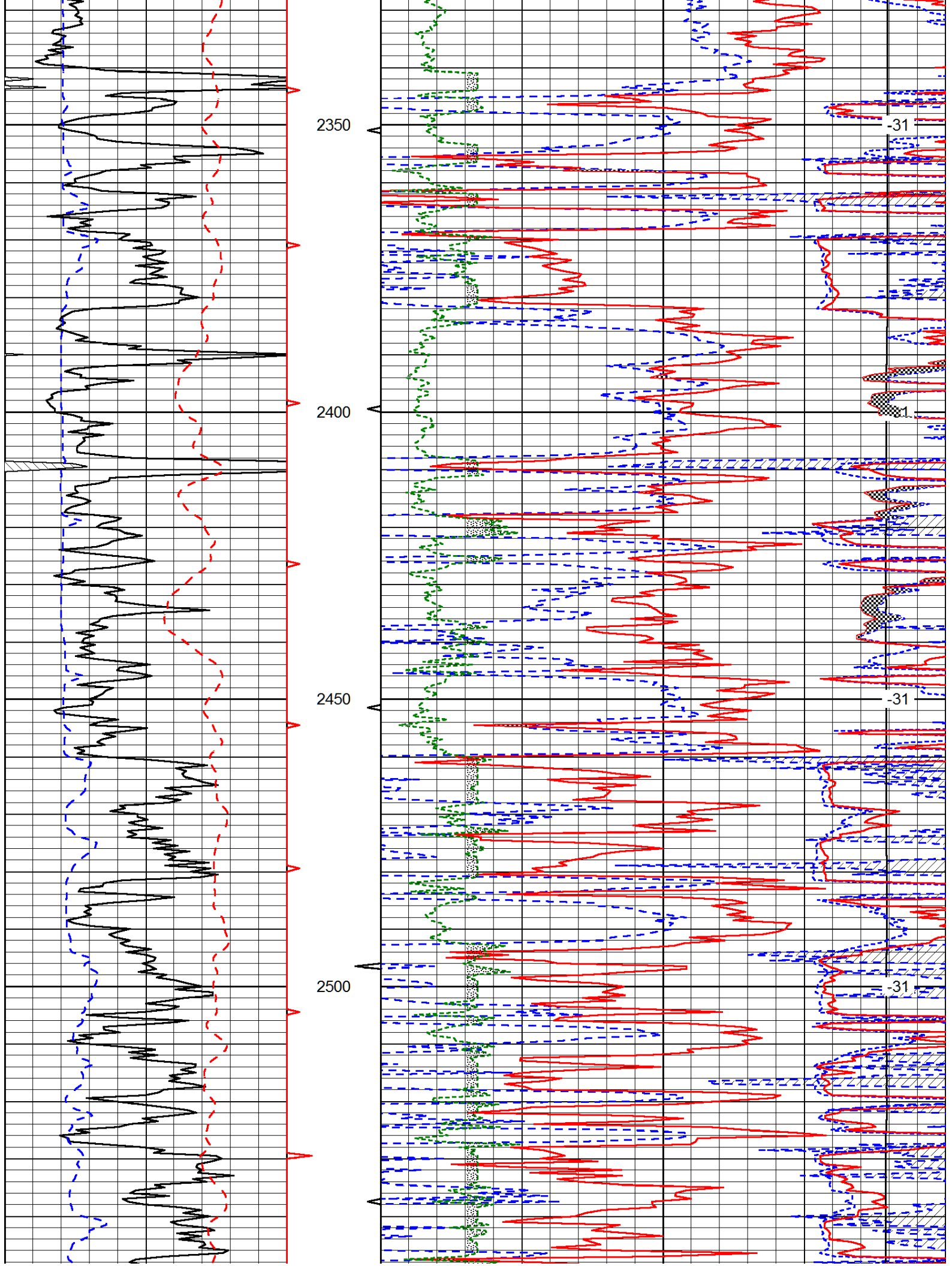
LSPD

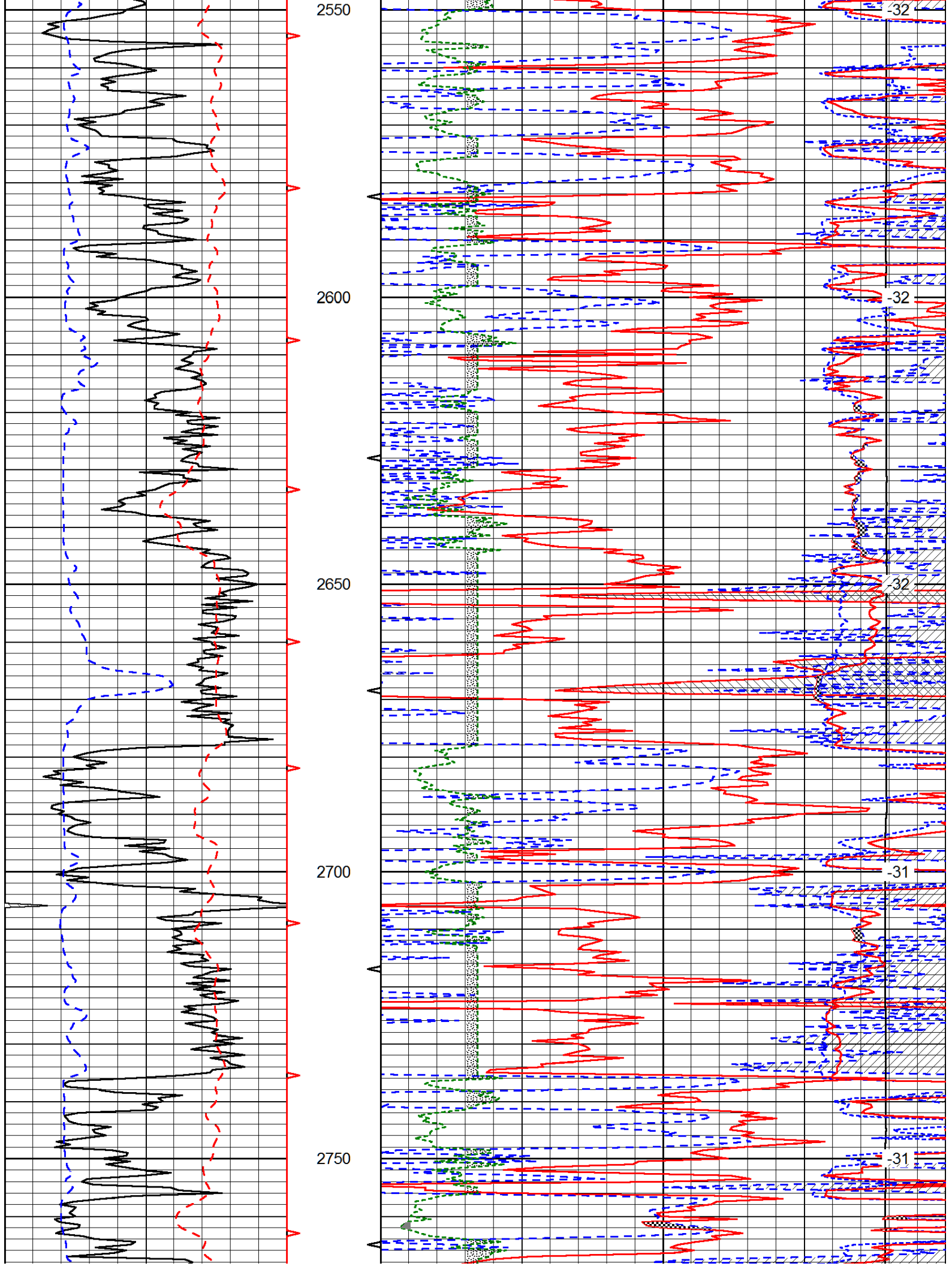
(ft/min)

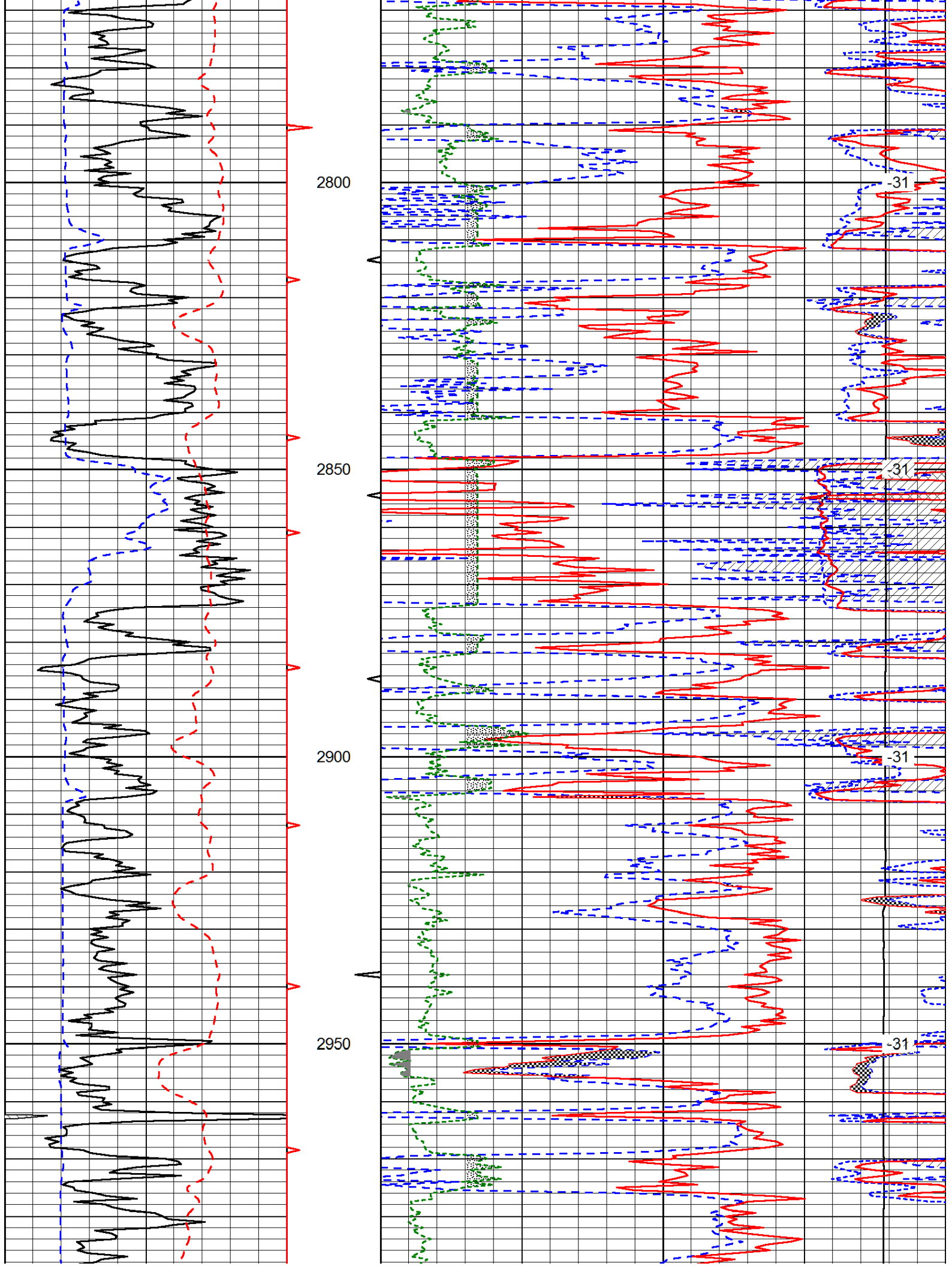


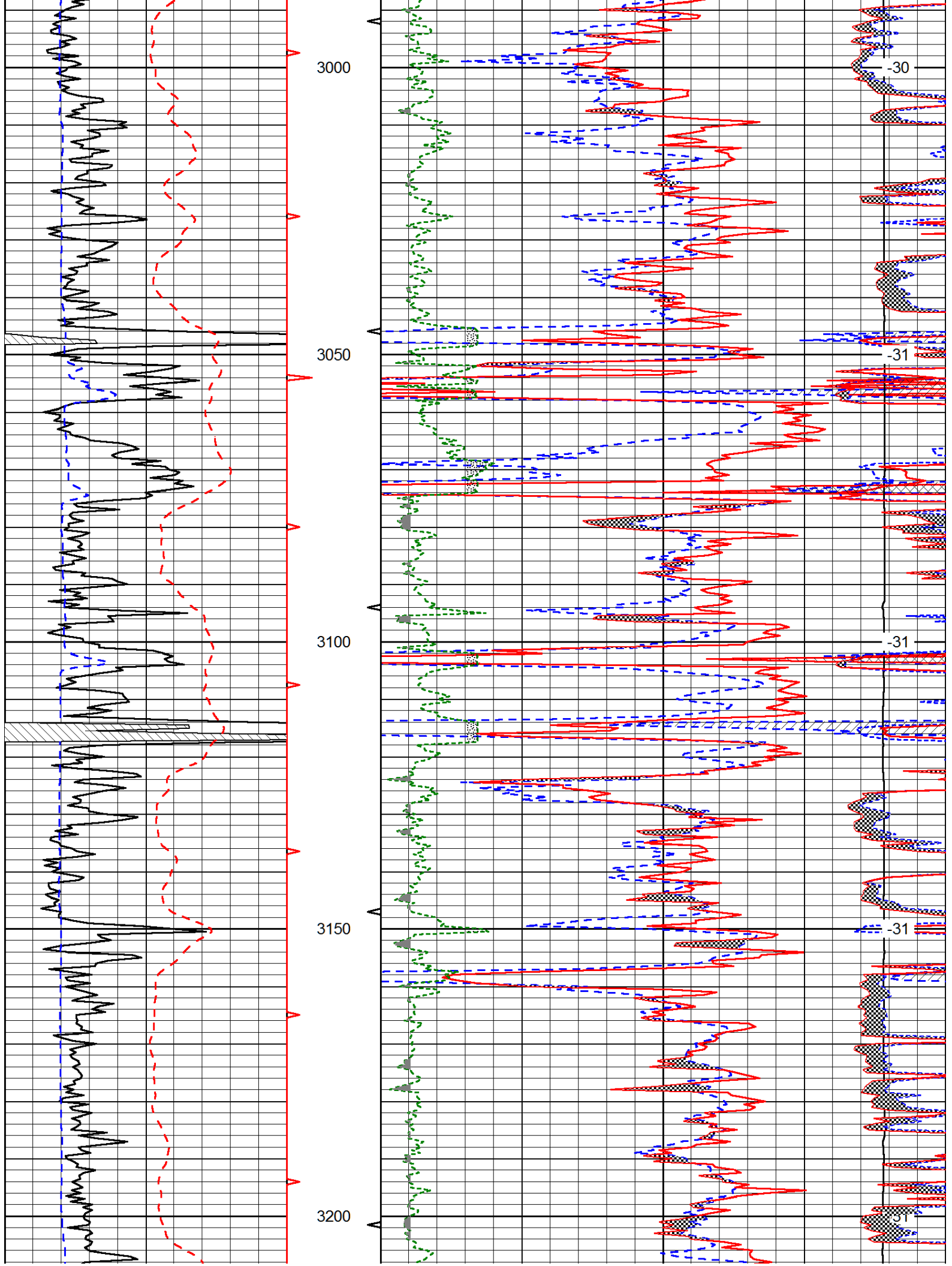


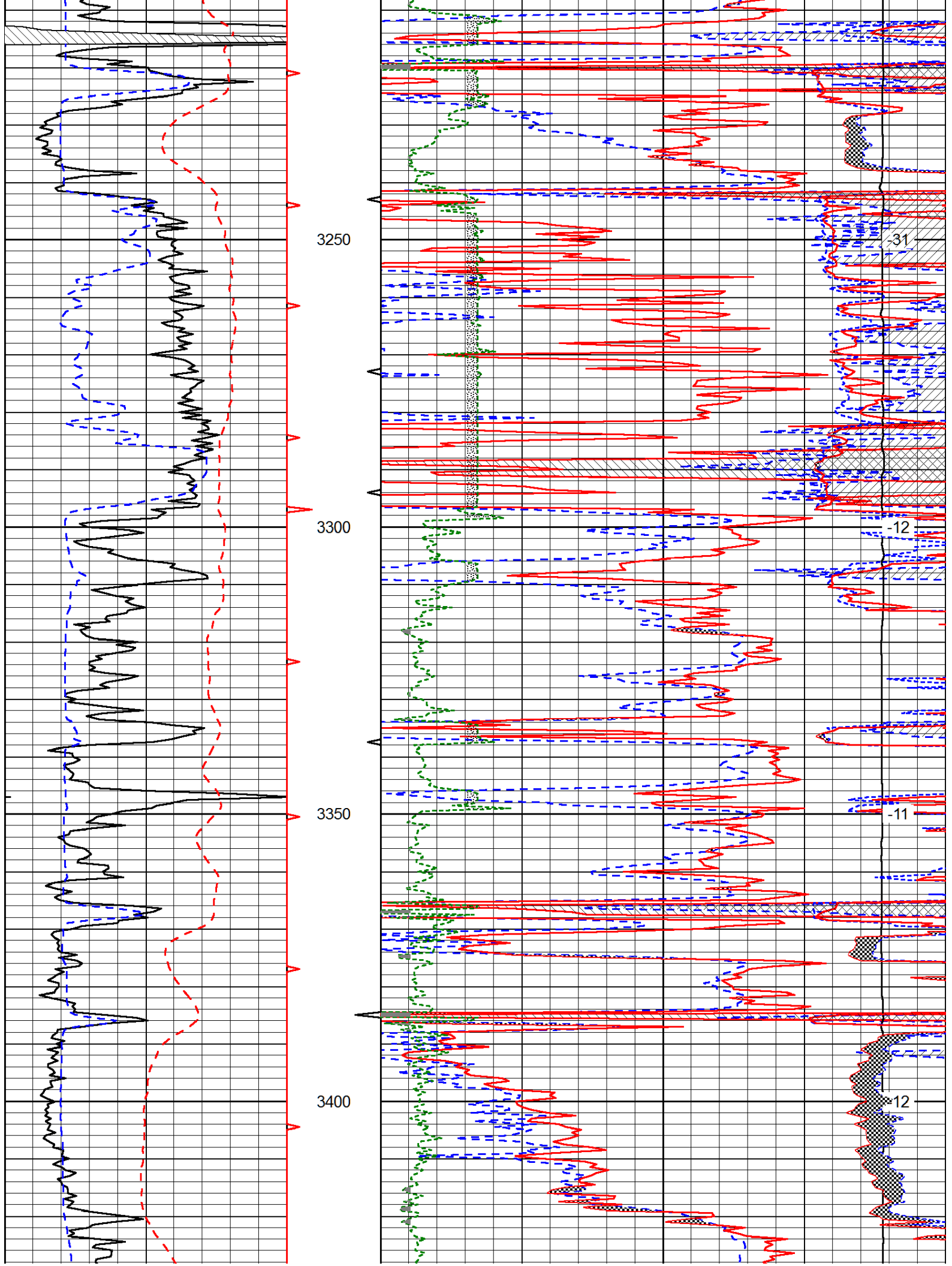


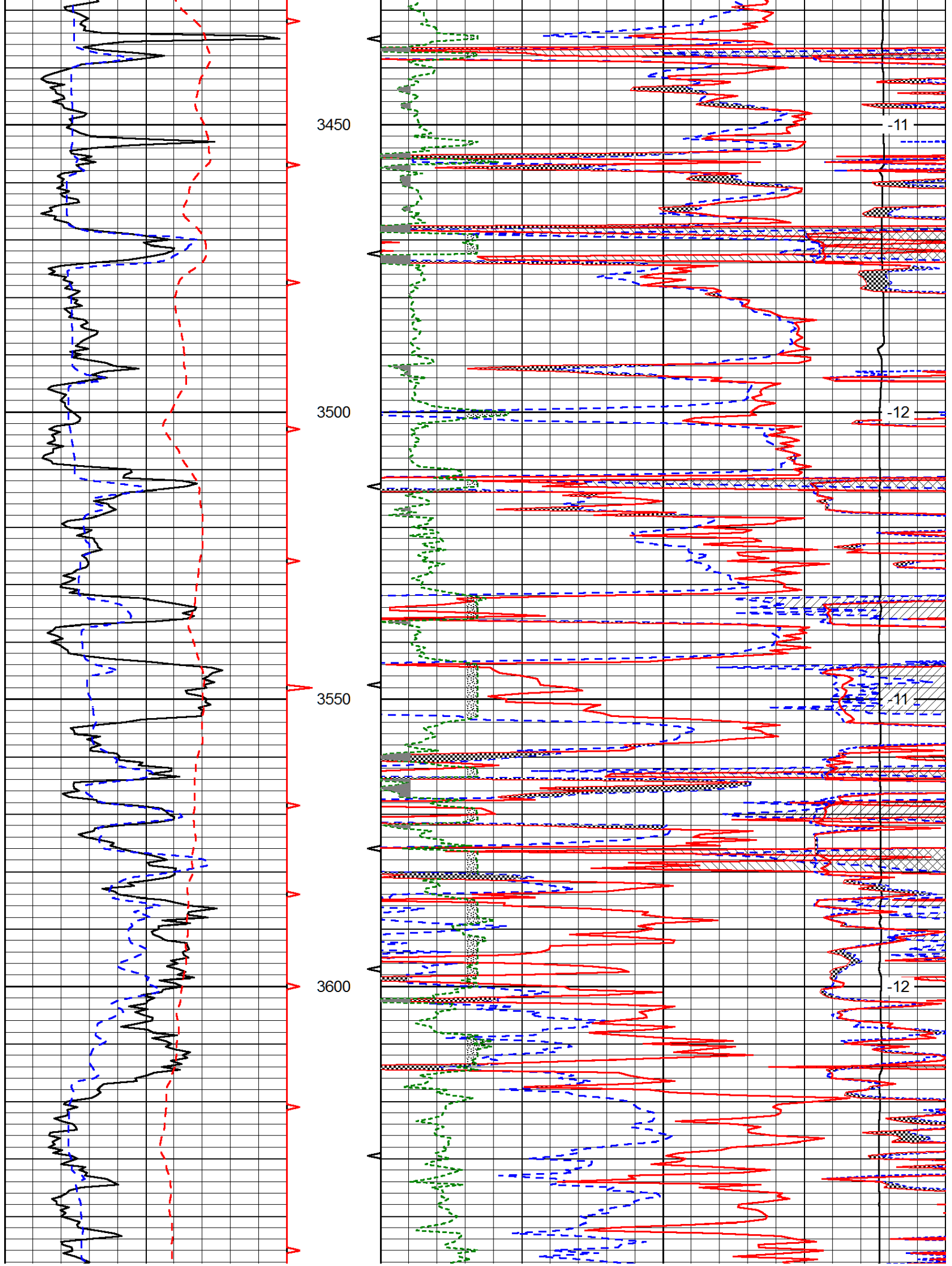


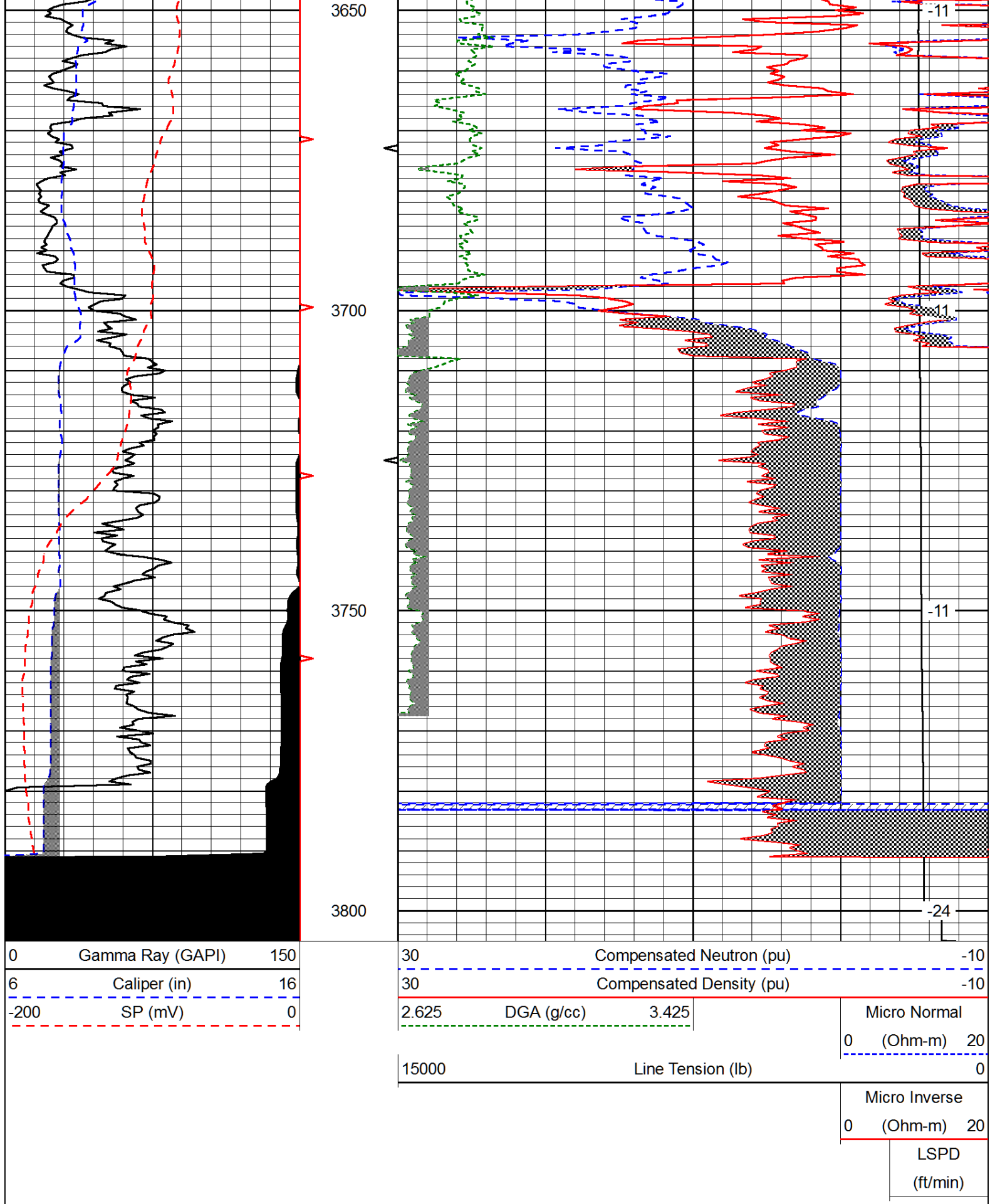












Database File: fgholl_romine_hd.db
Dataset Pathname: DIL/fghirs
Presentation Format: cndlspml
Dataset Creation: Tue Mar 25 11:37:30 2014
Charted by: Depth in Feet scaled 1:120

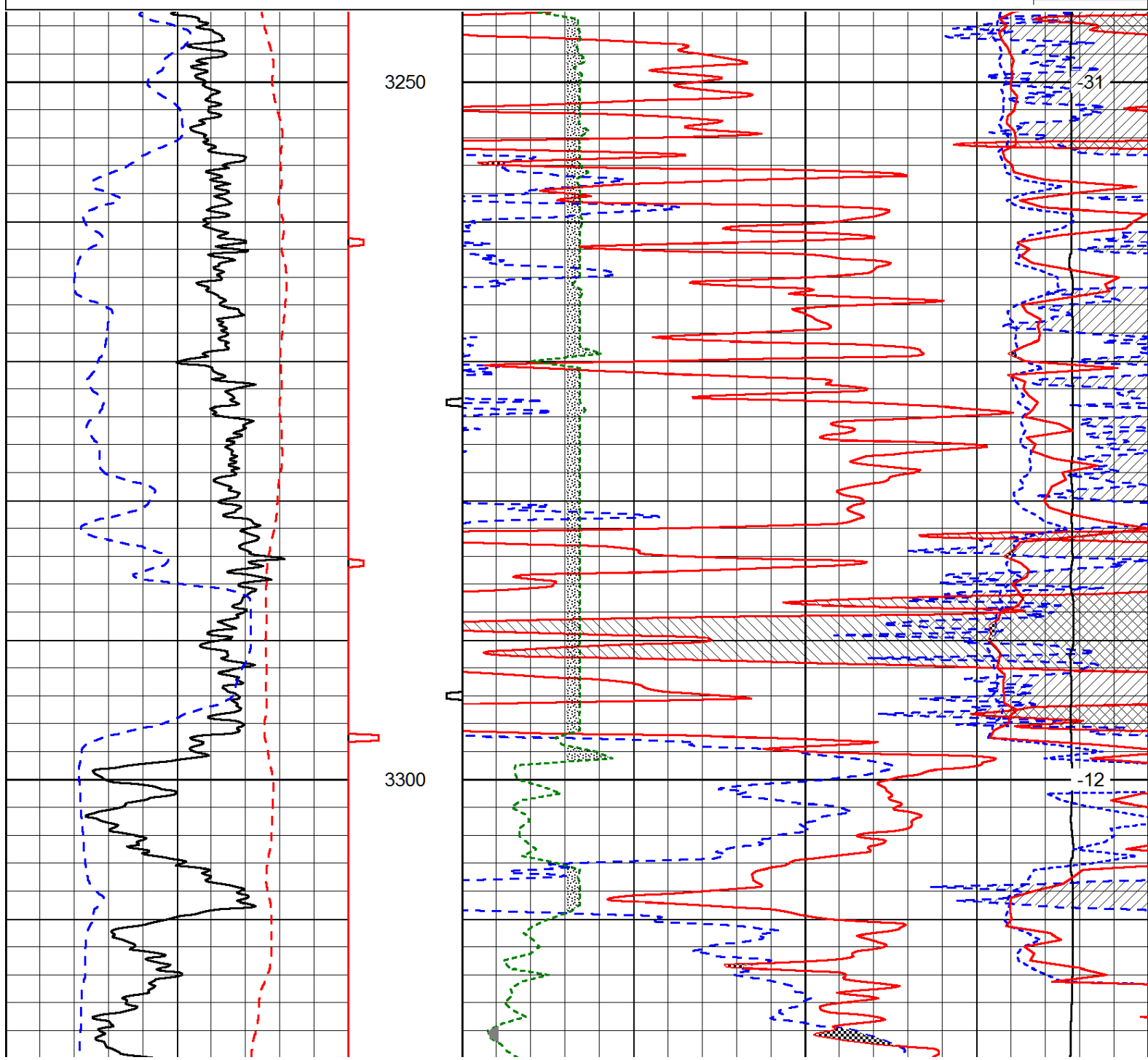
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-200	SP (mV)	0

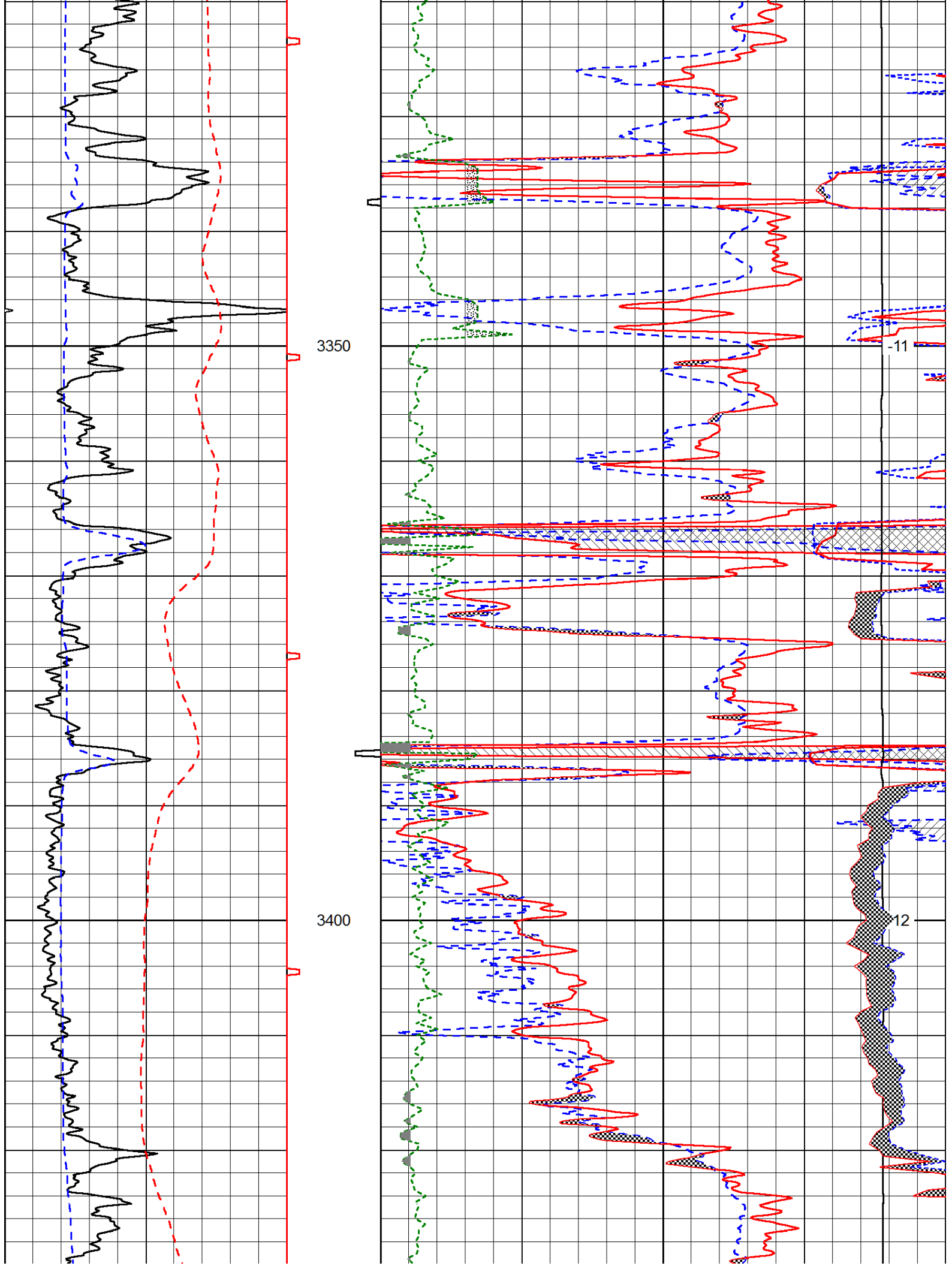
30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
2.625	DGA (g/cc)	3.425
15000	Line Tension (lb)	0

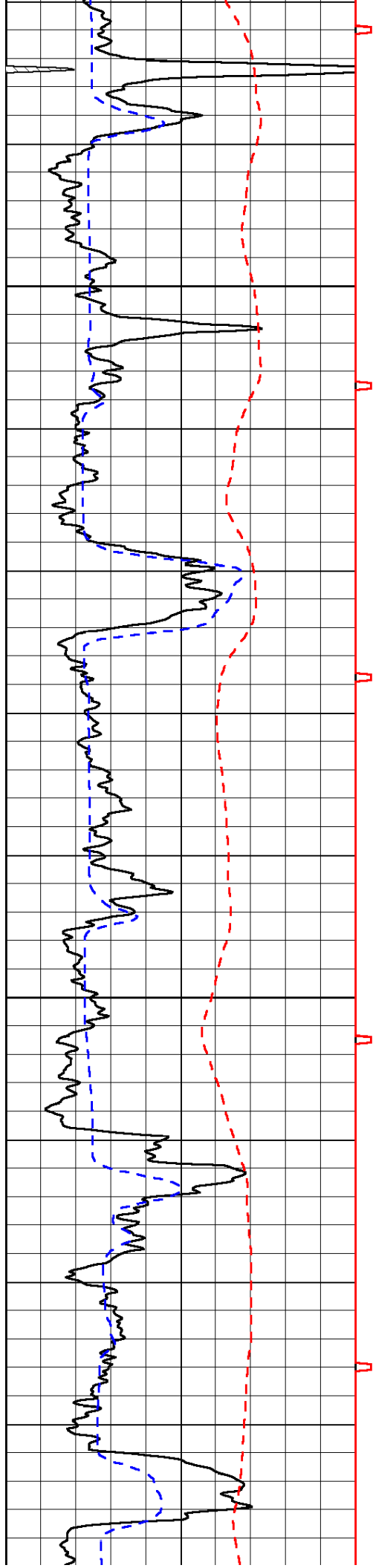
Micro Normal		
0	(Ohm-m)	20

Micro Inverse		
0	(Ohm-m)	20

LSPD
(ft/min)

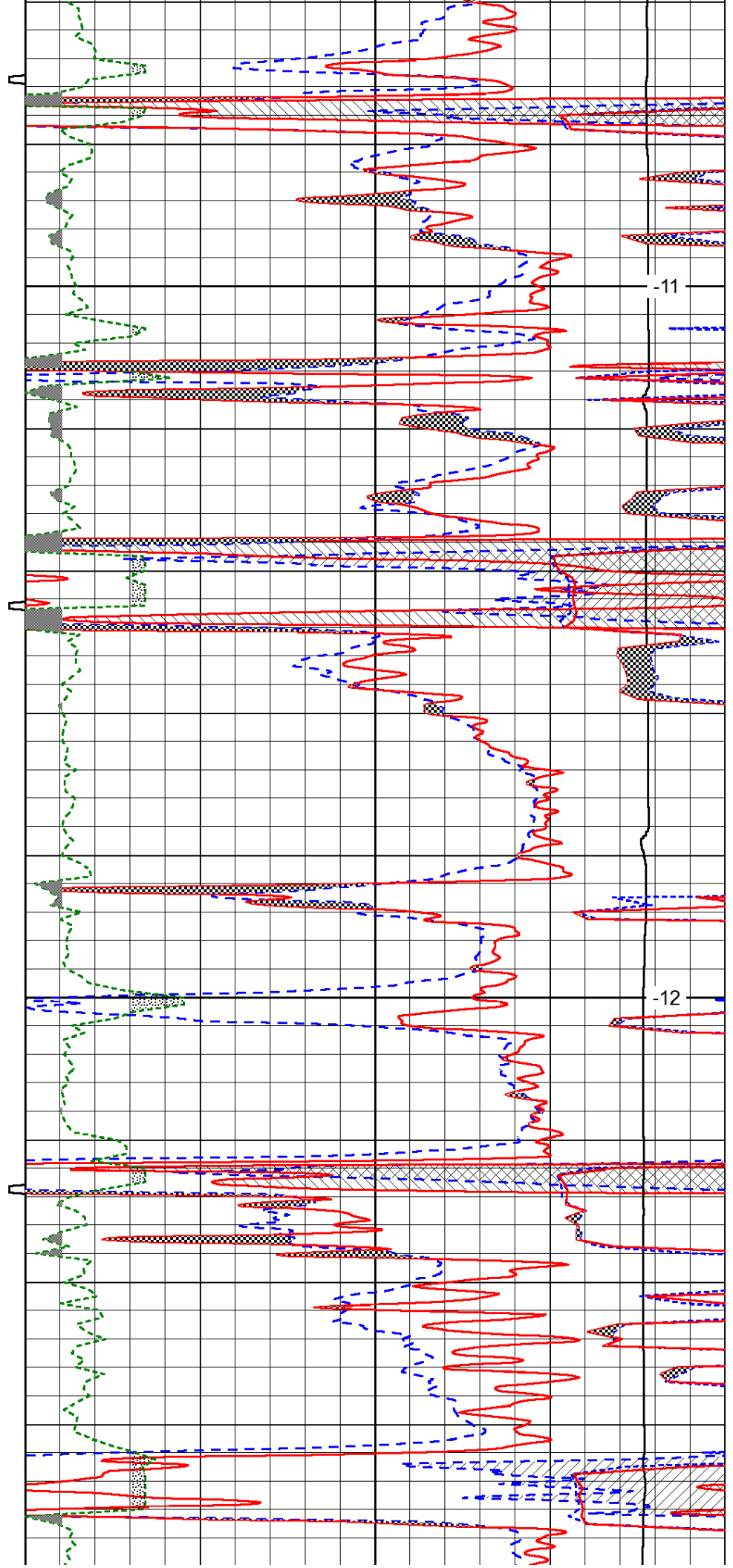






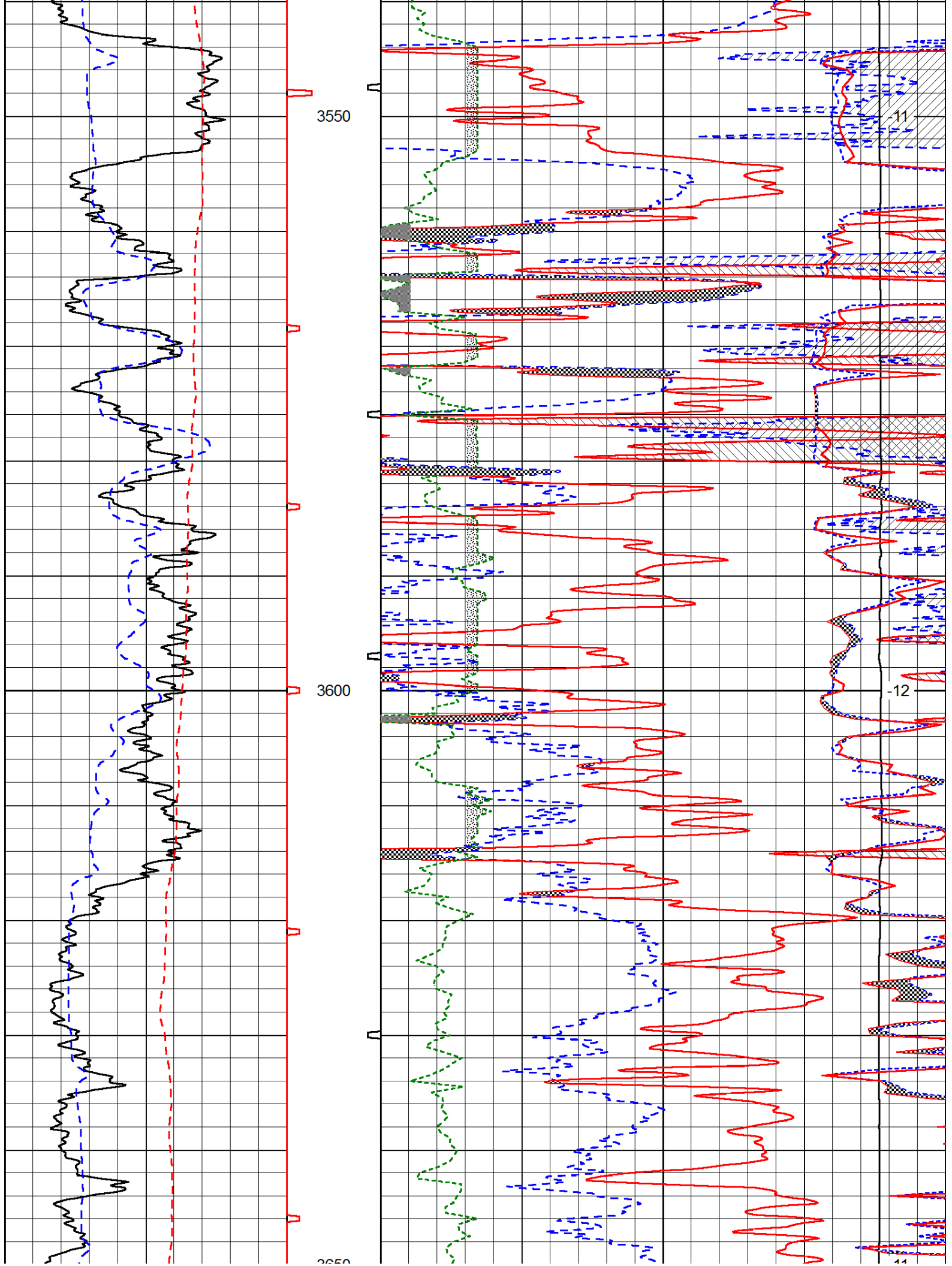
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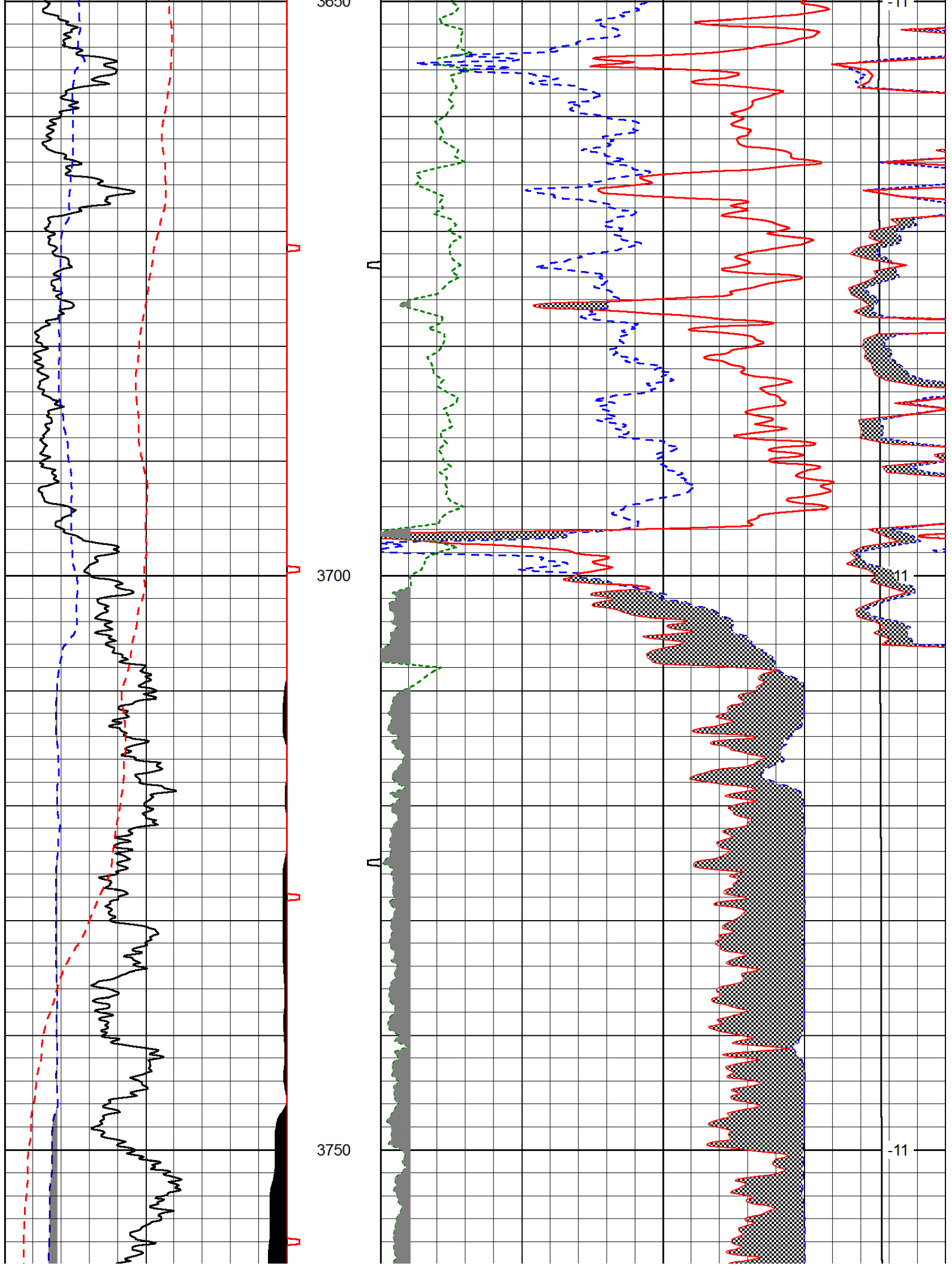
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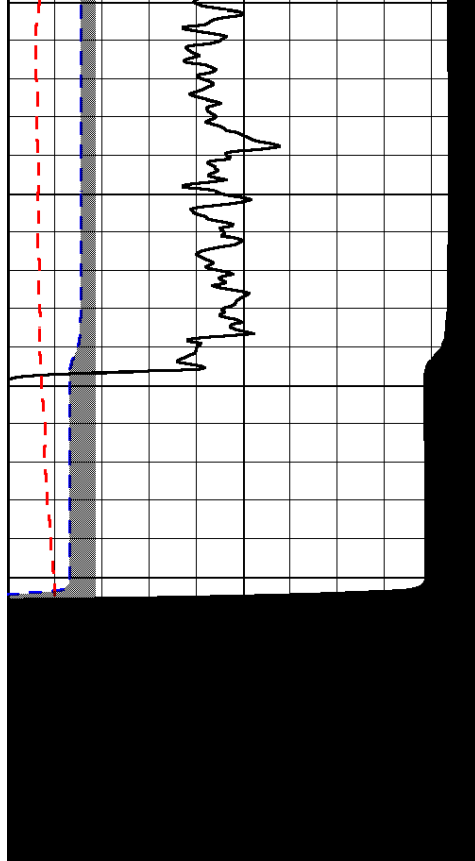


-11

-12

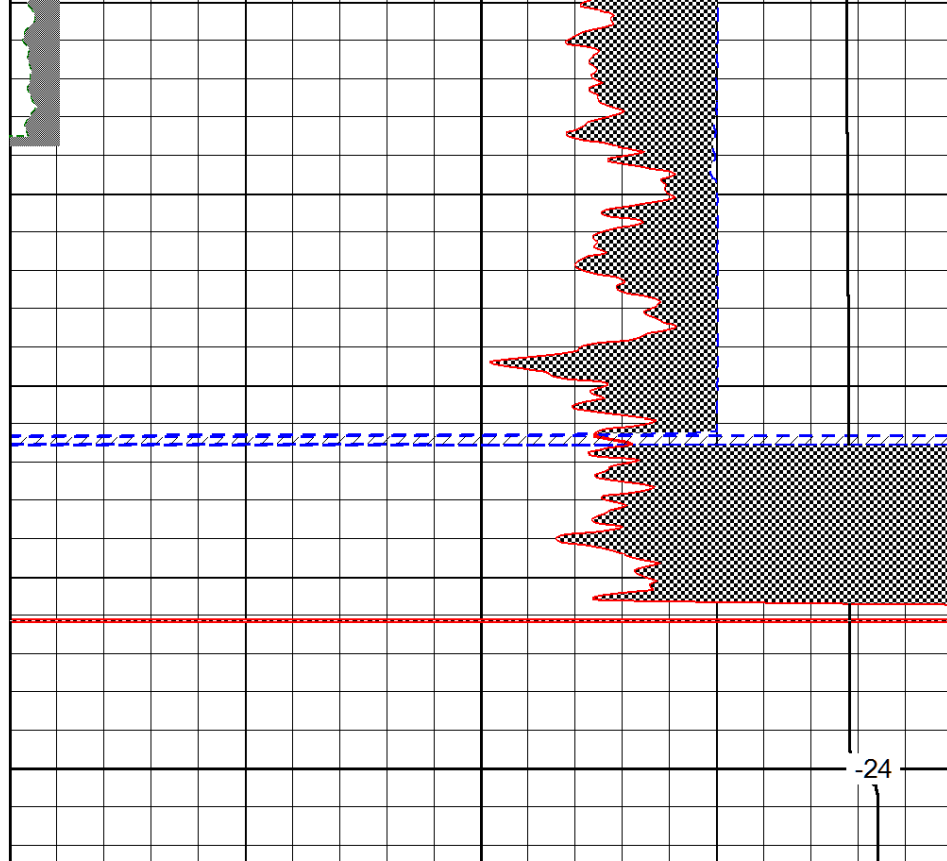






3800

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-200	SP (mV)	0



-24

30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
2.625	DGA (g/cc)	3.425
15000	Line Tension (lb)	0

0	Micro Normal (Ohm-m)	20
0	Micro Inverse (Ohm-m)	20
	LSPD (ft/min)	

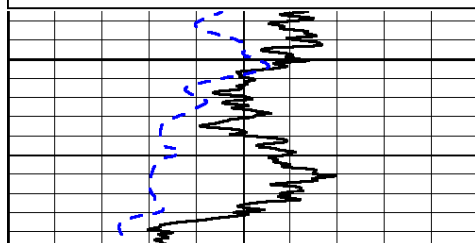


Dolomite Matrix(2.83)

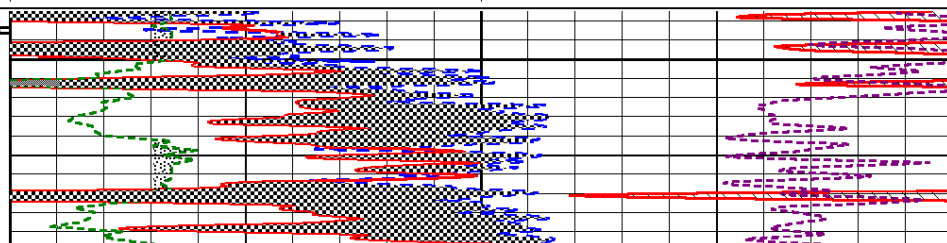
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 Dataset Pathname: DIL/fgdolo
 Presentation Format: cndldol
 Dataset Creation: Tue Mar 25 11:31:59 2014
 Charted by: Depth in Feet scaled 1:240

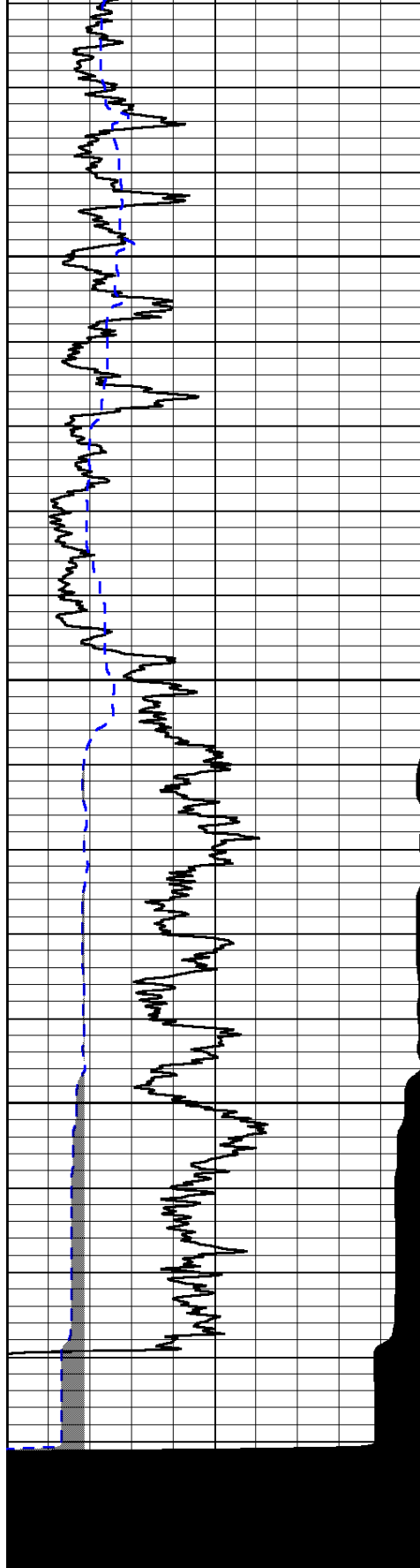
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
2.625	DGA (g/cc)	3.425
-0.25	Correction (g/cc)	0.25

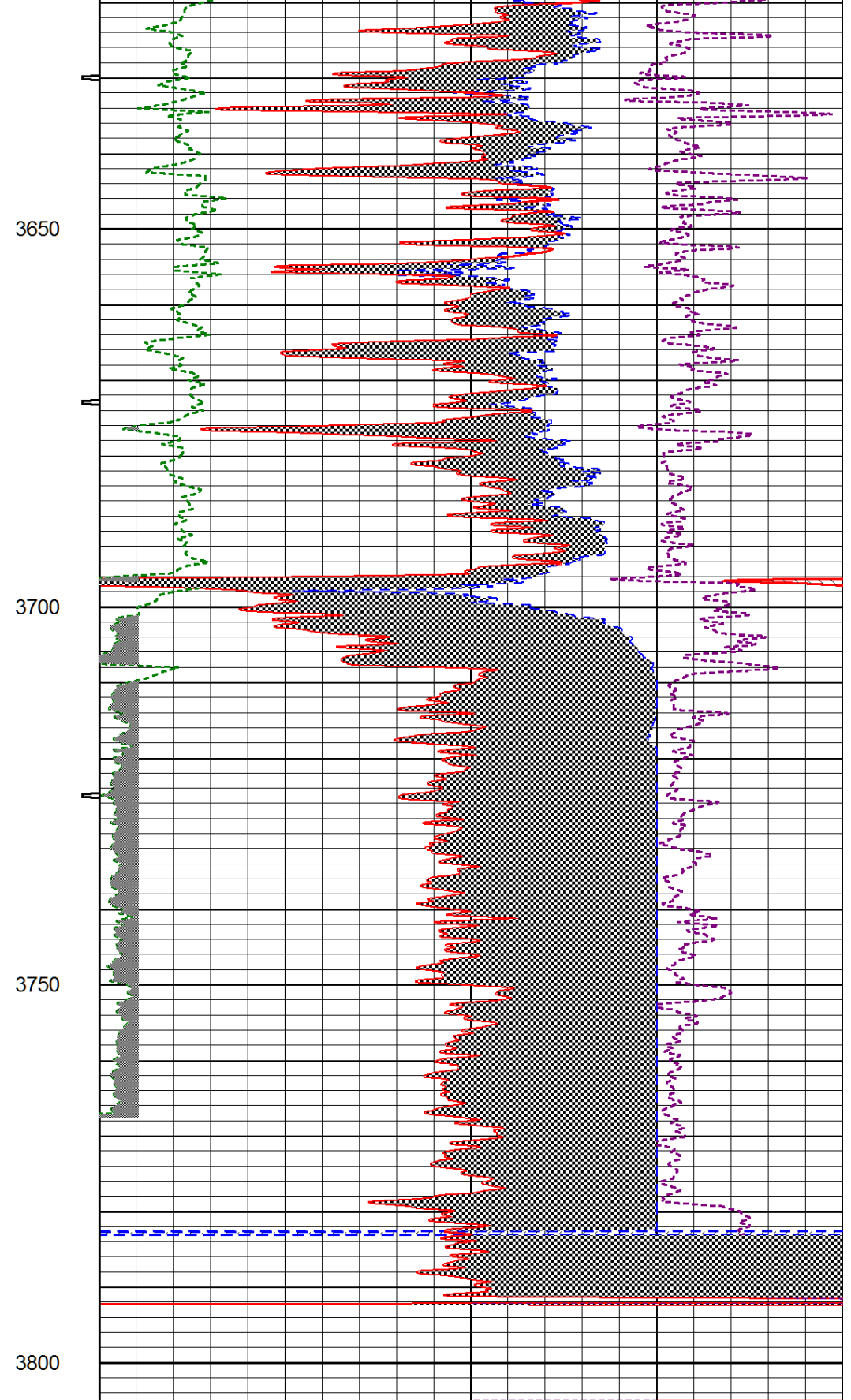


3600





0	Gamma Ray (GAPI)	150
6	Caliper (in)	16



30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
2.625	DGA (g/cc)	3.425
-0.25	Correction (g/cc)	0.25