PIONEER

Pioneer Energy Services

Radiation Guard Log

API No. 15-163-24202-00-00

Company Bach Oil Production

Well Stice #3

Field Valley View

County Rooks State Kansas

Location 1470' FNL & 1650' FWL

Sec: 19 Twp: 7S Rge: 19W

Other Services: None

Elevation: K.B. 1991, D.F., G.L. 1986

Permanent Datum: Ground Level — Elevation 1986

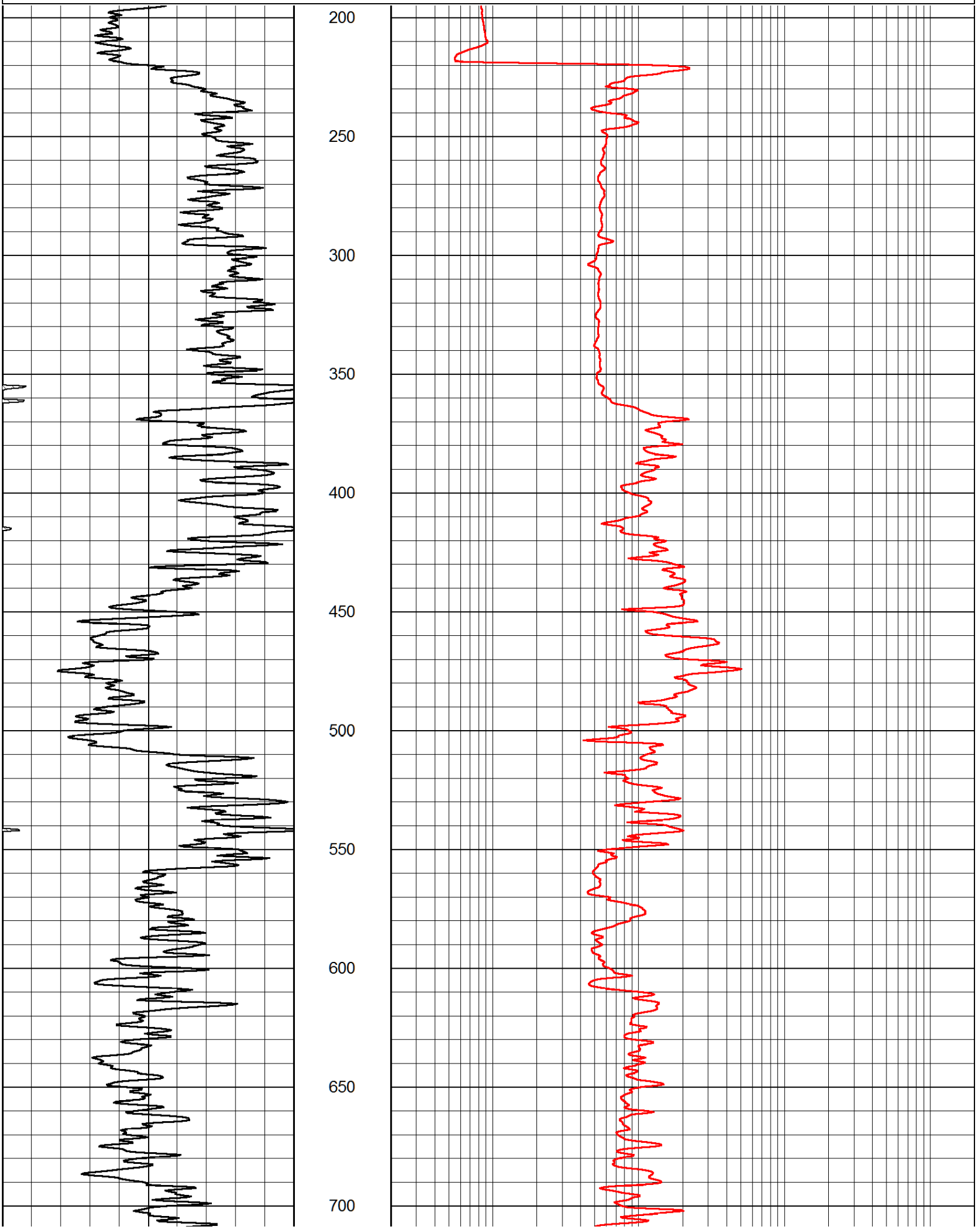
Log Measured From: Kelly Bushing 5 Ft. Above Perm. Datum

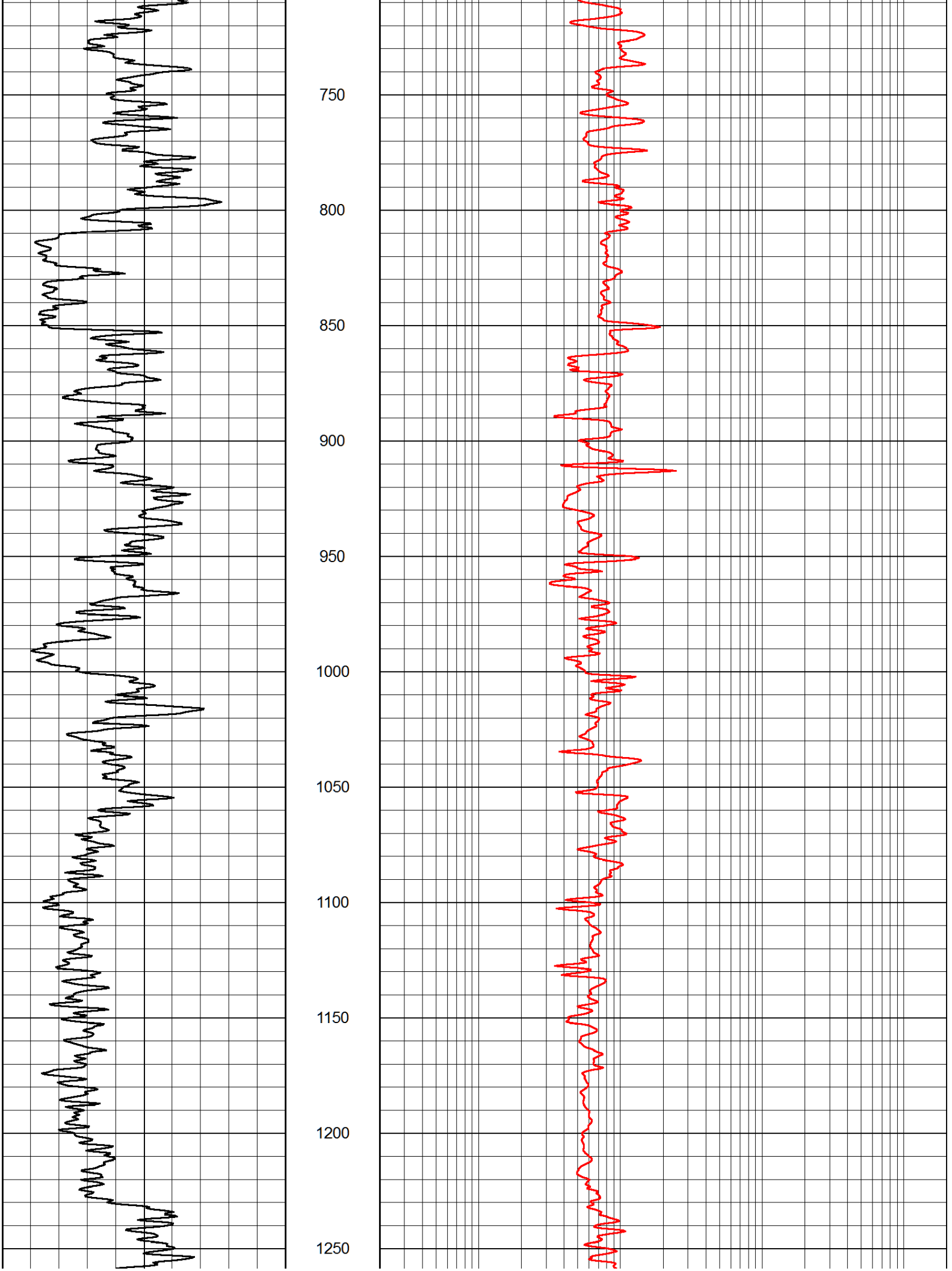
Drilling Measured From: Kelly Bushing

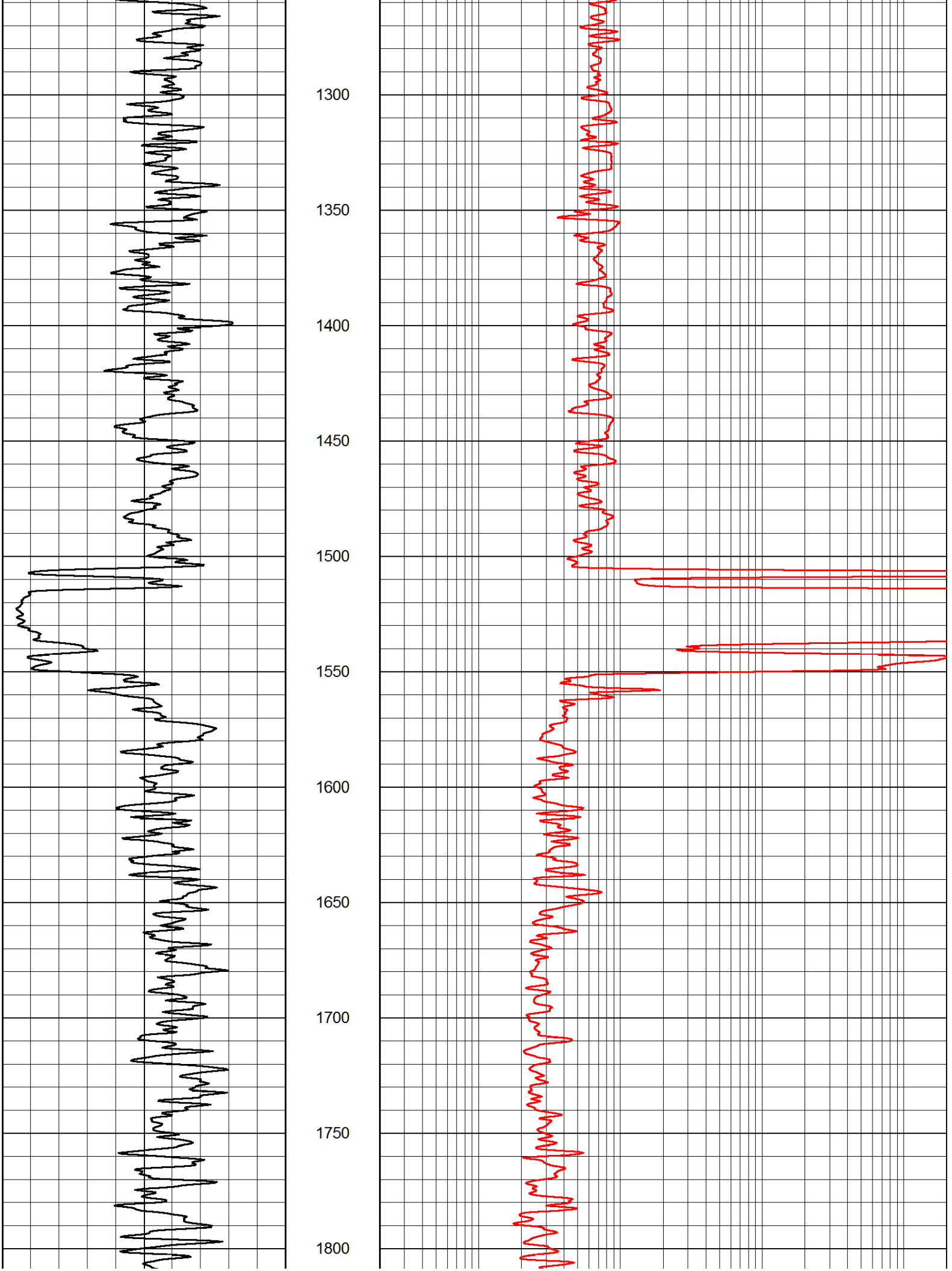
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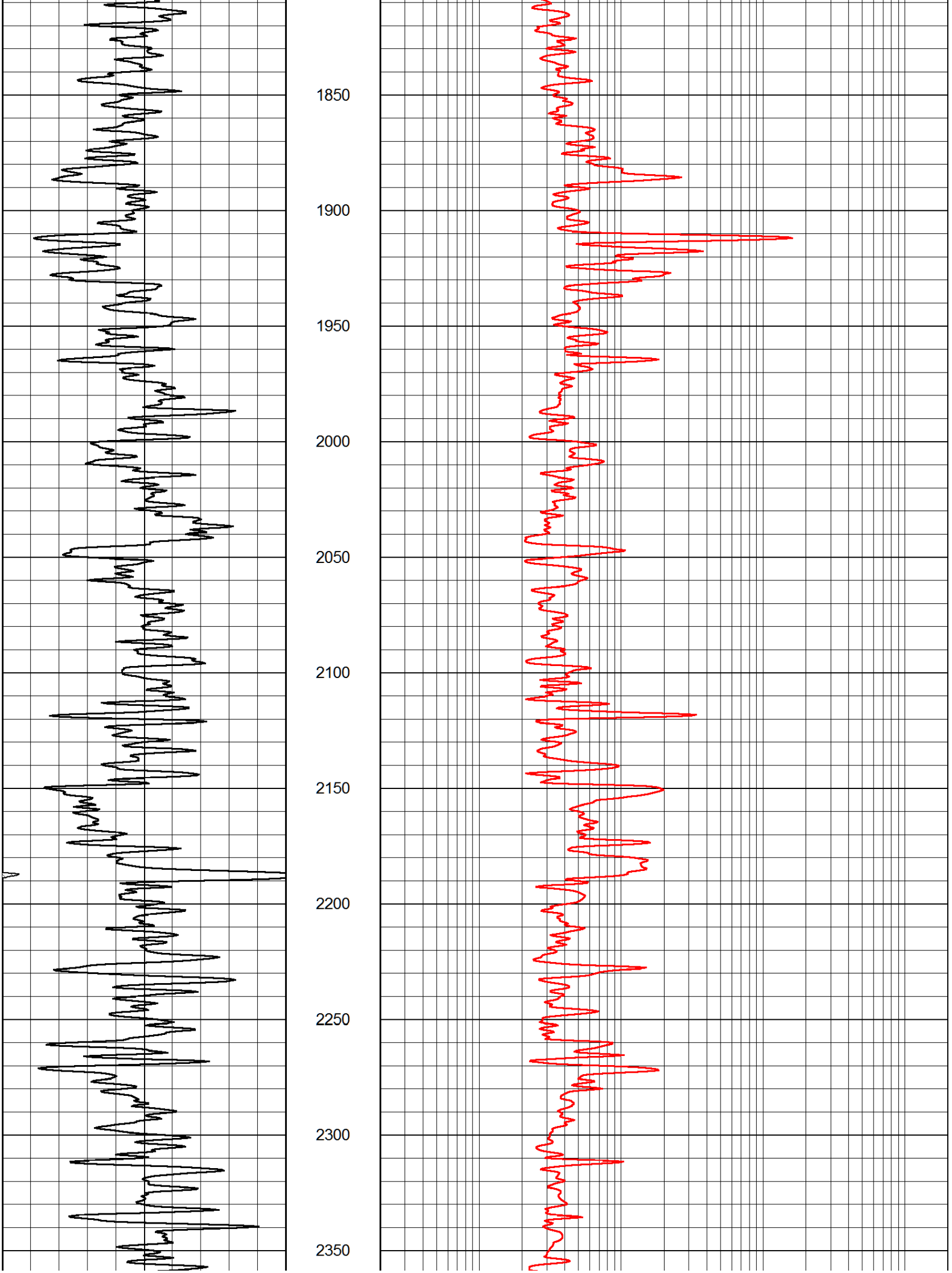
Charted by: Depth in Feet scaled 1:600

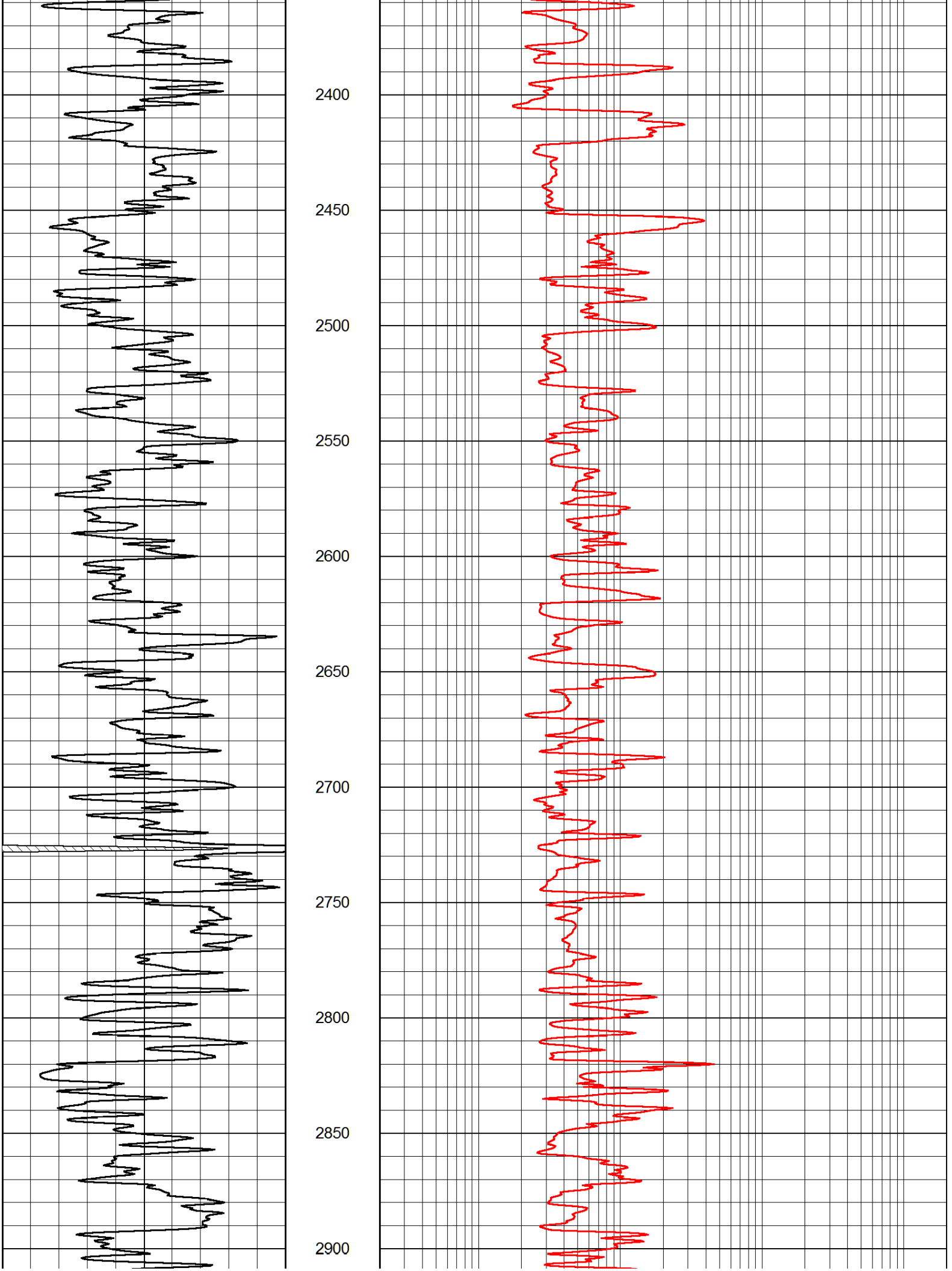
0 Gamma Ray (GAPI) 150		0.2 lgrd (Ohm-m) 2000

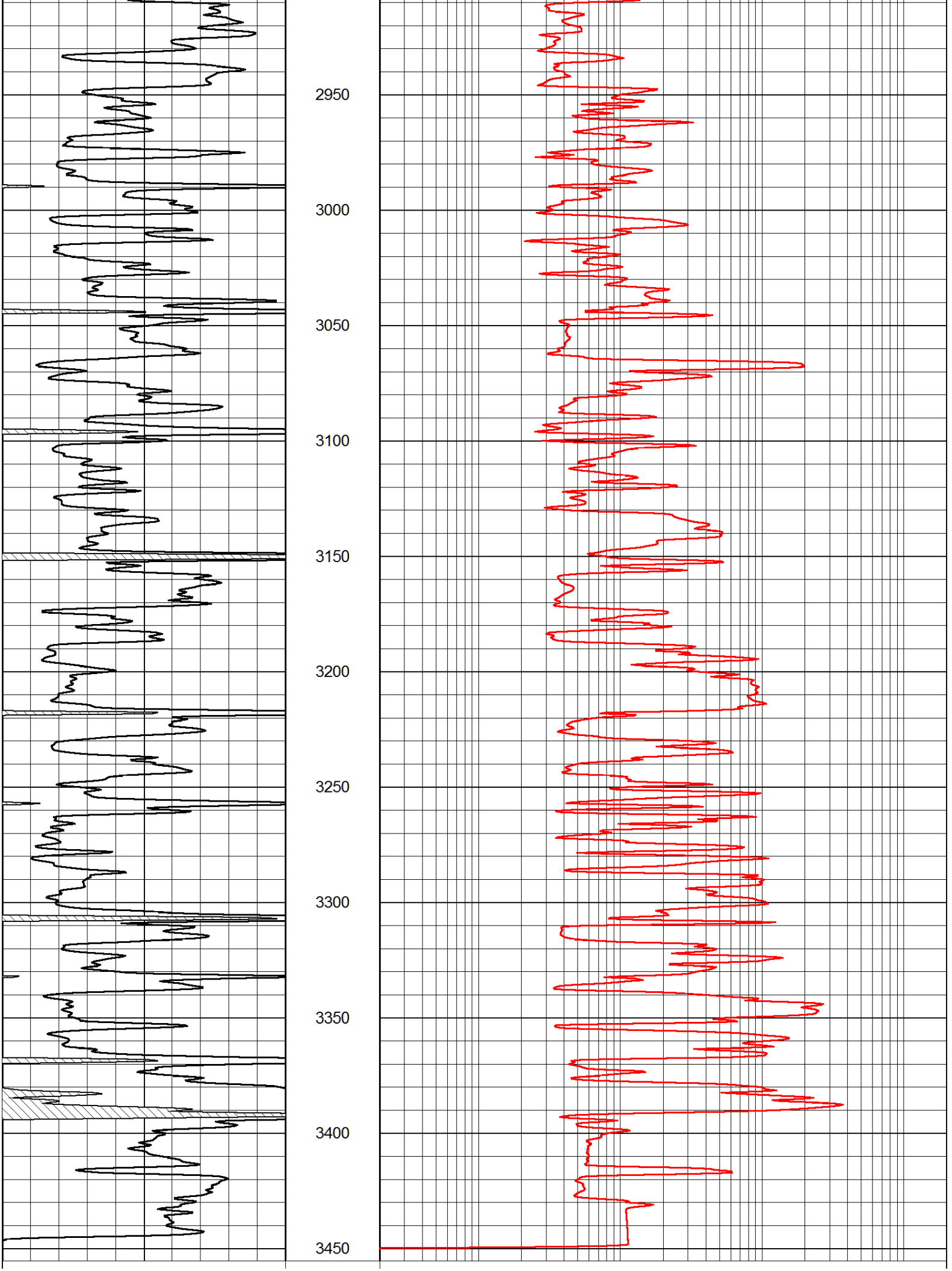



750
800
850
900
950
1000
1050
1100
1150
1200
1250


1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800


1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350

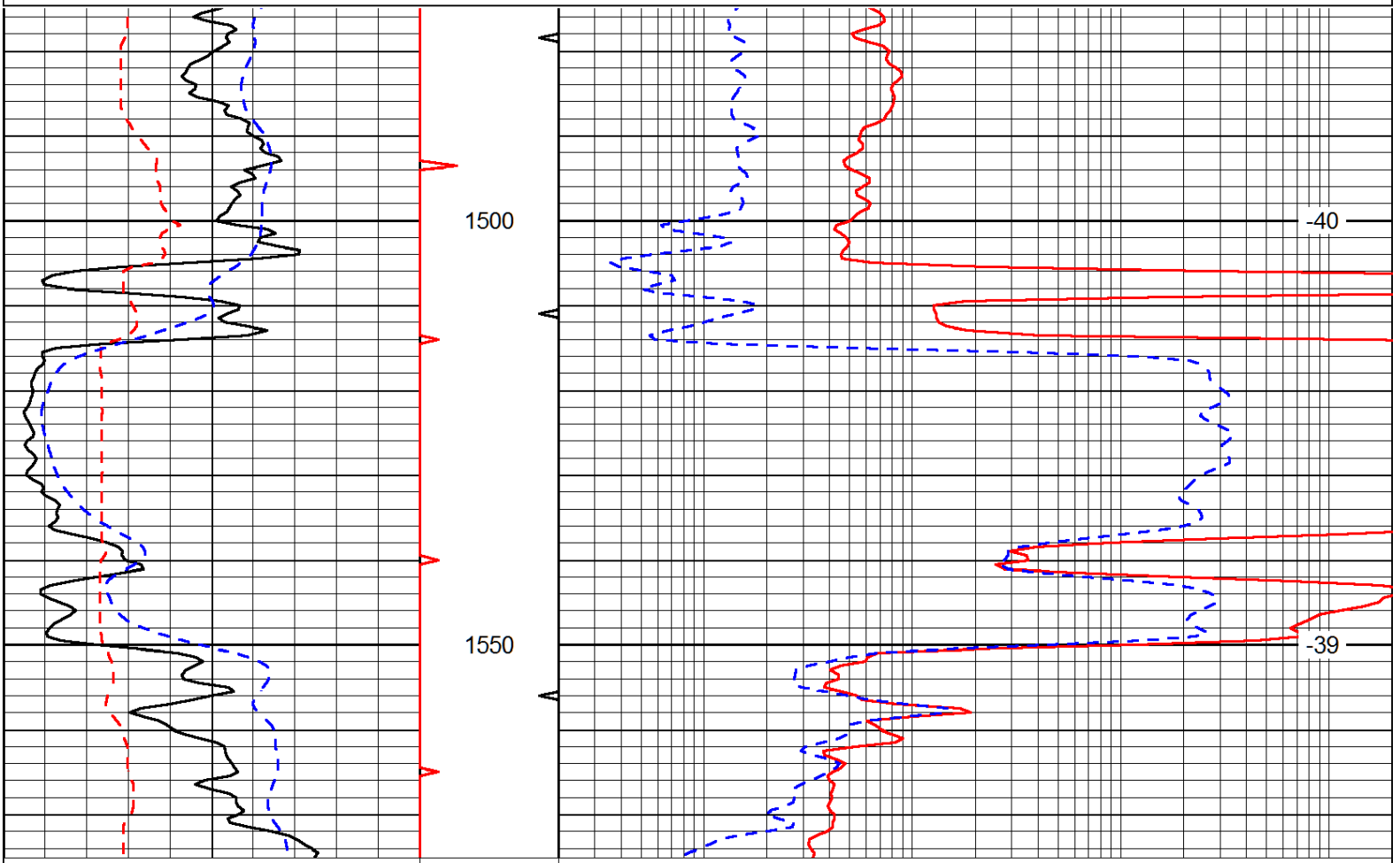

2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
2900


2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450

0	Gamma Ray (GAPI)	150
0.2	lgrd (Ohm-m)	2000

Database File:	bach_042314hd.db
Dataset Pathname:	rag/bachrag
Presentation Format:	rag
Dataset Creation:	Wed Apr 23 02:00:25 2014
Charted by:	Depth in Feet scaled 1:240

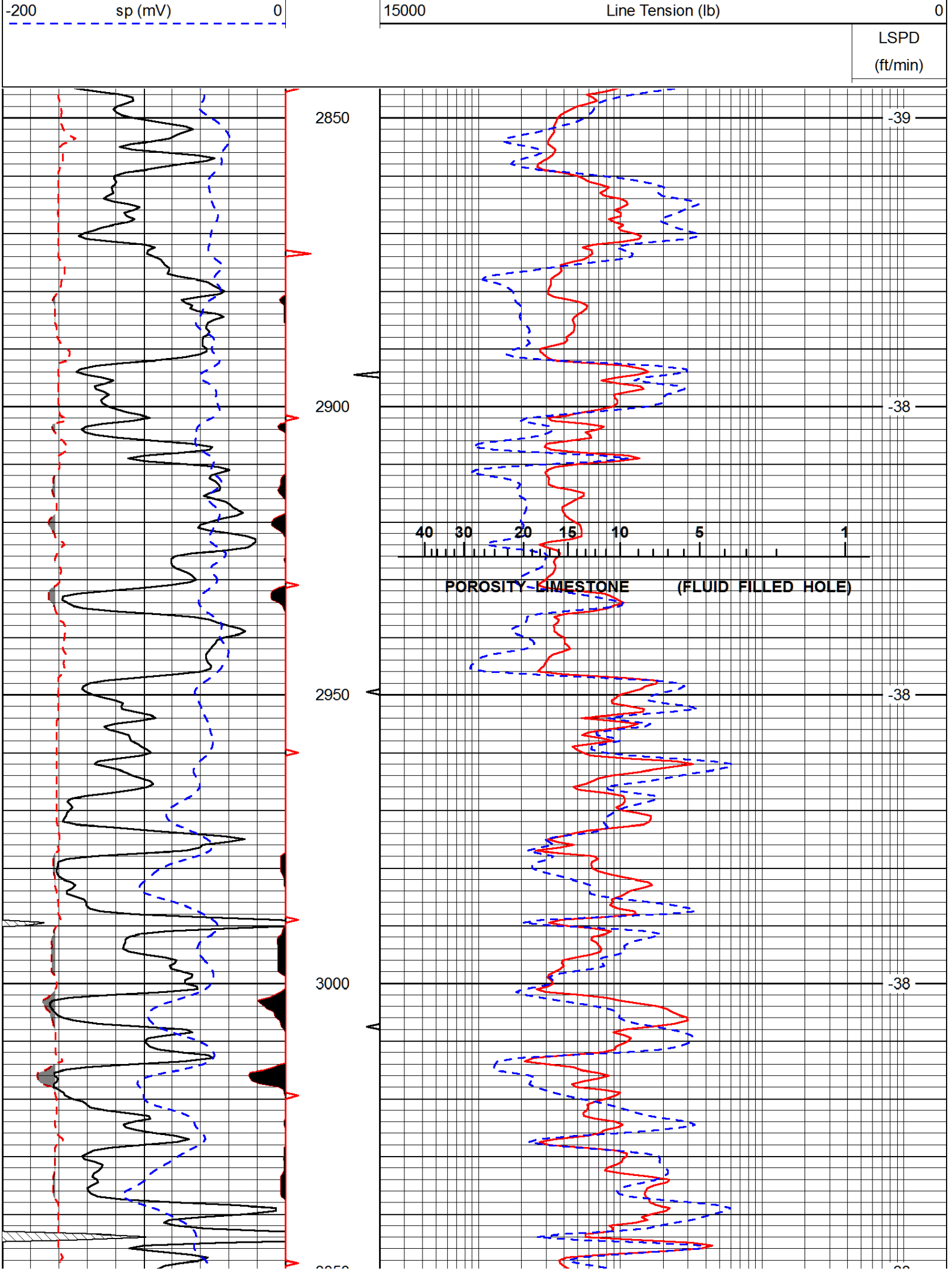
0	Gamma Ray (GAPI)	150
6	SCAL (in)	16
-200	sp (mV)	0
0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160
15000	Line Tension (lb)	0
	LSPD (ft/min)	

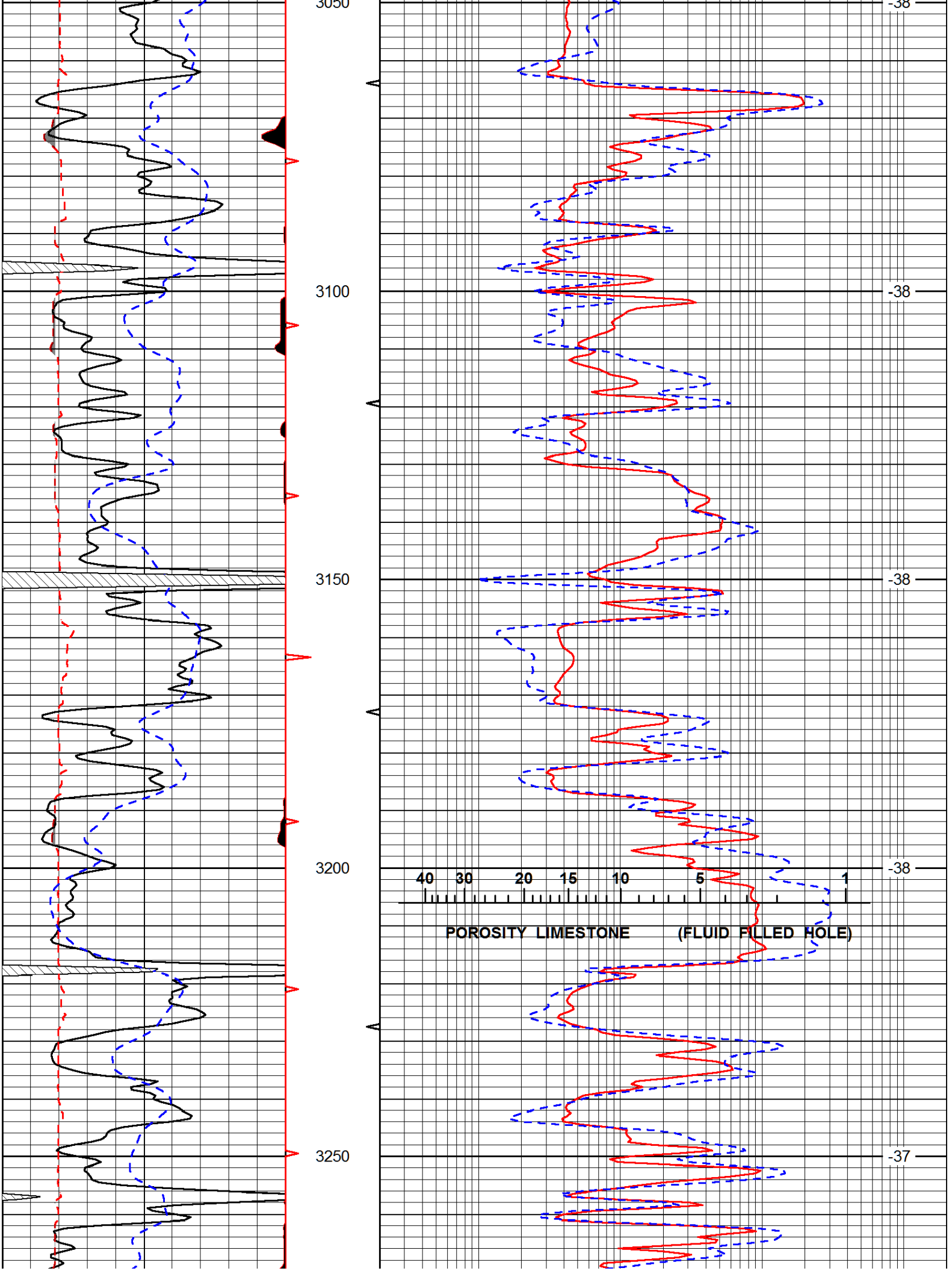


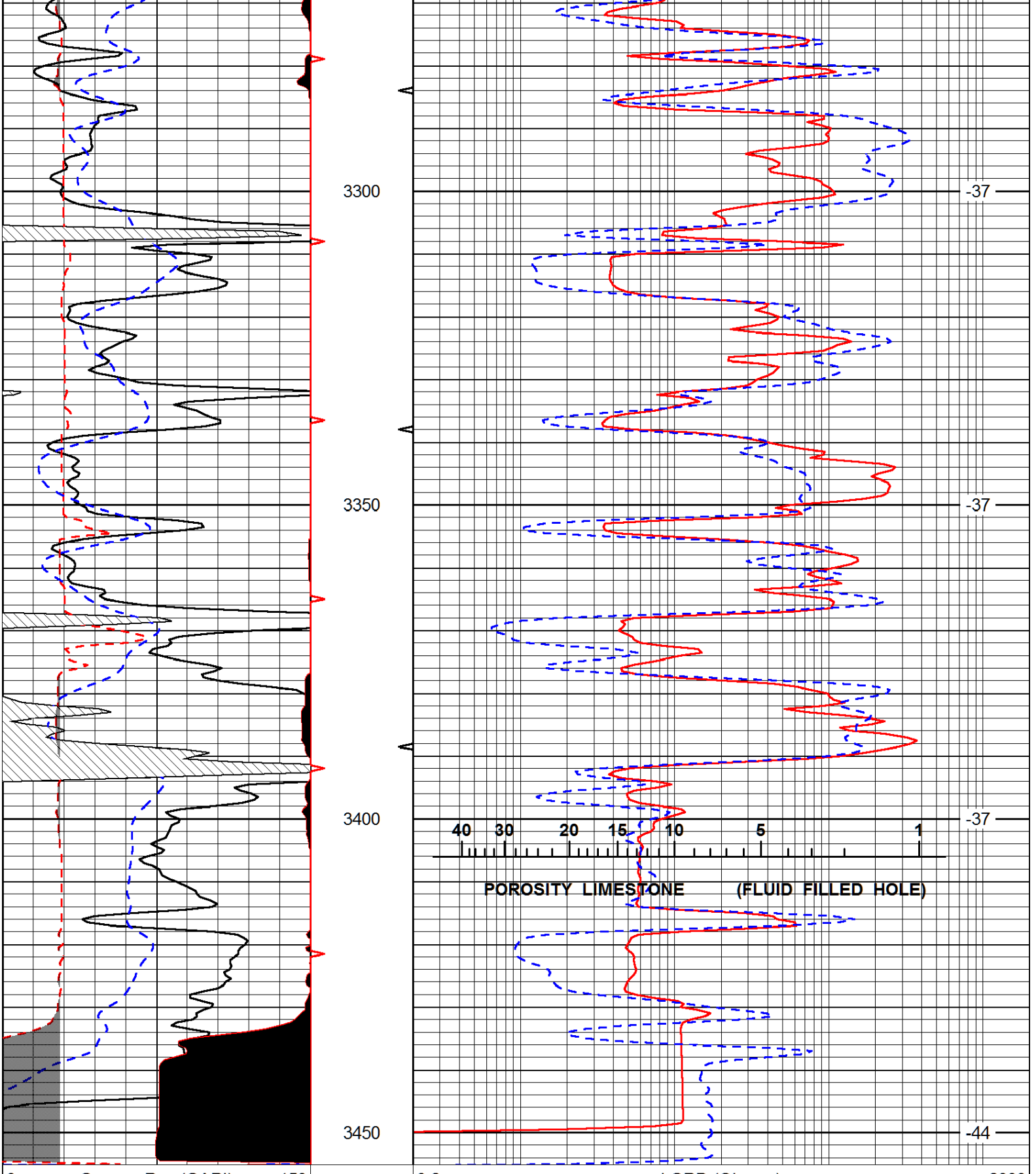
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6	SCAL (in)	16
-200	sp (mV)	0
0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160
15000	Line Tension (lb)	0
	LSPD (ft/min)	

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6	SCAL (in)	16
0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160


-200
sp (mV)
0
15000
Line Tension (lb)
0
LSPD
(ft/min)
2850
2900
2950
3000
-39
-38
-38
-38
40
30
20
15
10
5
1
POROSITY LIMESTONE
(FLUID FILLED HOLE)


3050
3100
3150
3200
3250
-38
-38
-38
-38
-37
40 30 20 15 10 5 1
POROSITY LIMESTONE (FLUID FILLED HOLE)


3300
3350
3400
3450
-37
-37
-37
-44
40 30 20 15 10 5 1
POROSITY LIMESTONE (FLUID FILLED HOLE)
0 Gamma Ray (GAPI) 150
6 SCAL (in) 16
-200 sp (mV) 0
0.2 LGRD (Ohm-m) 2000
560 SWNC (NAPI) 2160
15000 Line Tension (lb) 0
LSPD
(ft/min)