



Pioneer Energy Services

Radiation Guard Log

API No.	Company Berexco LLC Well Michael #4-22 Field County Rawlins State Kansas		
15-153-20,950-00-00	Location 2,450' FNL & 2,160' FWL Sec: 22 Twp: 1S Rge: 36W	Other Services MEL	
Permanent Datum	Ground Level	Elevation 3173	
Log Measured From	Kelly Bushing	13 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing	K.B. 3186 D.F. 3173 G.L. 3173	
Date	3/5/2014		
Run Number	One		
Depth Driller	4450		
Depth Logger	4446		
Bottom Logged Interval	4445		
Top Log Interval	300		
Casing Driller	8.625 @ 310		
Casing Logger	310		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	1100		
Density / Viscosity	9.7 55		
pH / Fluid Loss	10.5 7.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	.95 @ 70		
Rmf @ Meas. Temp	.71 @ 70		
Rmc @ Meas. Temp	1.28 @ 70		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.55 @ 121		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	121		
Equipment Number	108		
Location	Hays		
Recorded By	J. Long		
Witnessed By	Peter J. Vollmer		

<<< Fold Here >>>

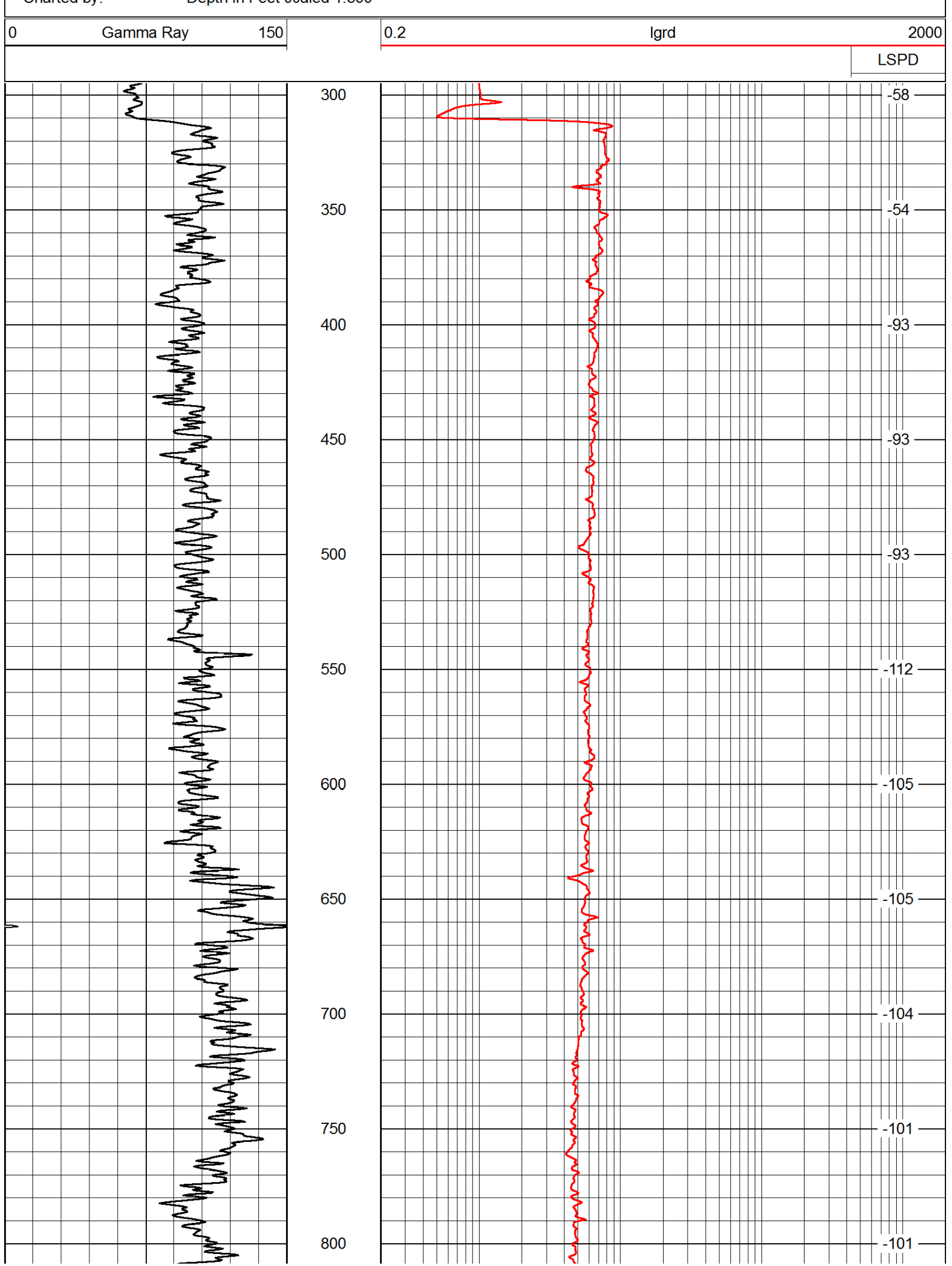
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

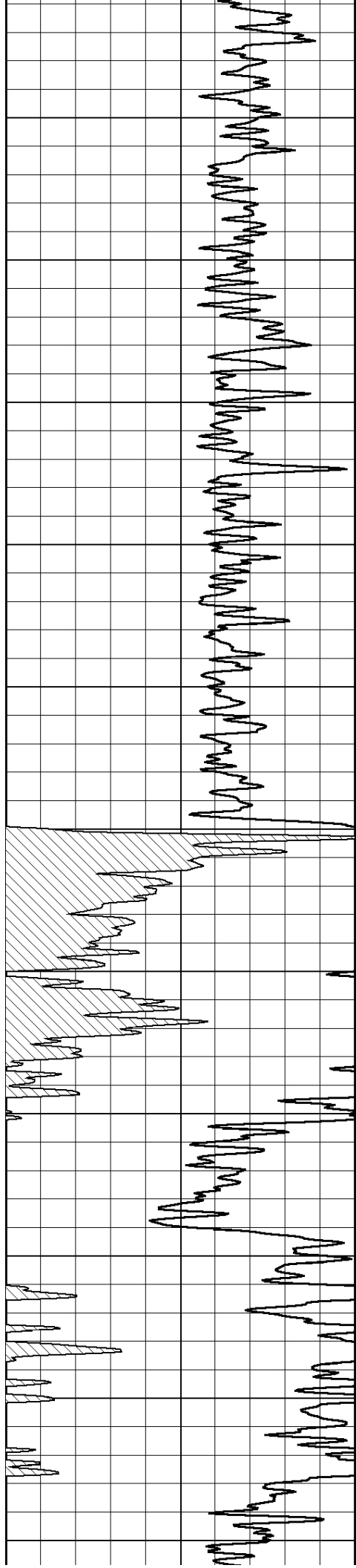
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Beardsley, North to AA Road, West to 5.5 Road, 1 1/2 West,
North and East Into at Farmstead

Database File: c:\warrior\data\berexco_michael #4-22\berexco_michael_4-22hd.db
Dataset Pathname: rag/berrag
Presentation Format: rag2in
Dataset Creation: Wed Mar 05 18:00:45 2014
Charted by: Depth in Feet scaled 1:600





850

900

950

1000

1050

1100

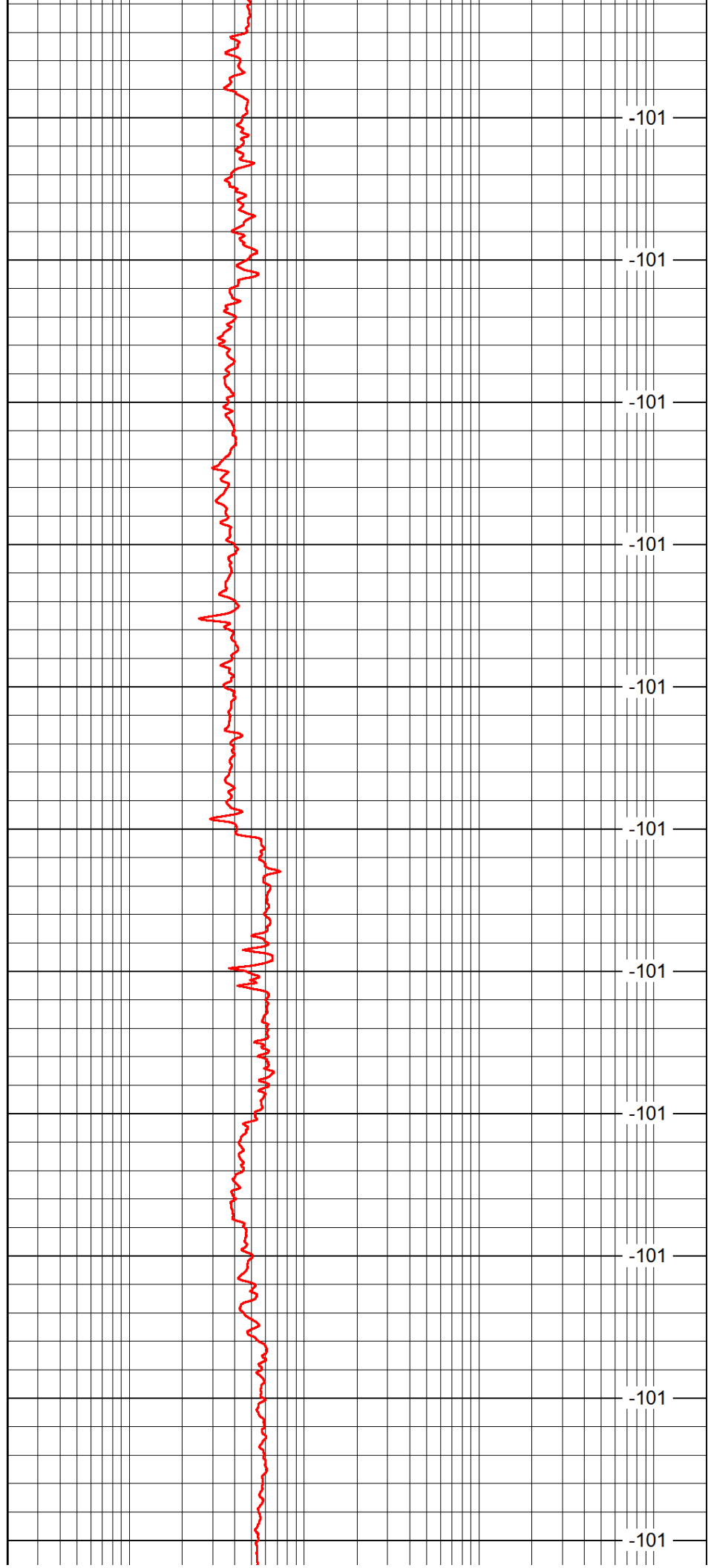
1150

1200

1250

1300

1350



-101

-101

-101

-101

-101

-101

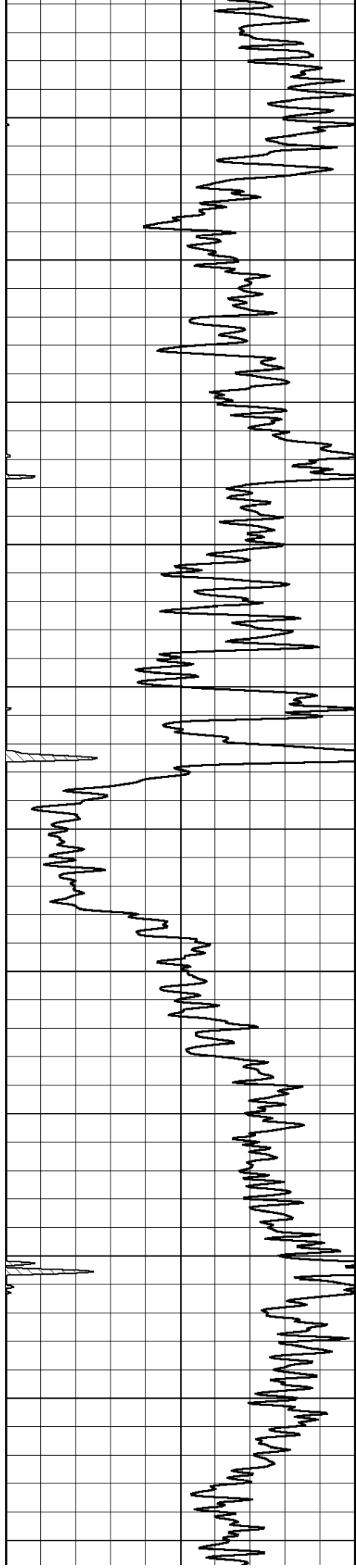
-101

-101

-101

-101

-101



1400

1450

1500

1550

1600

1650

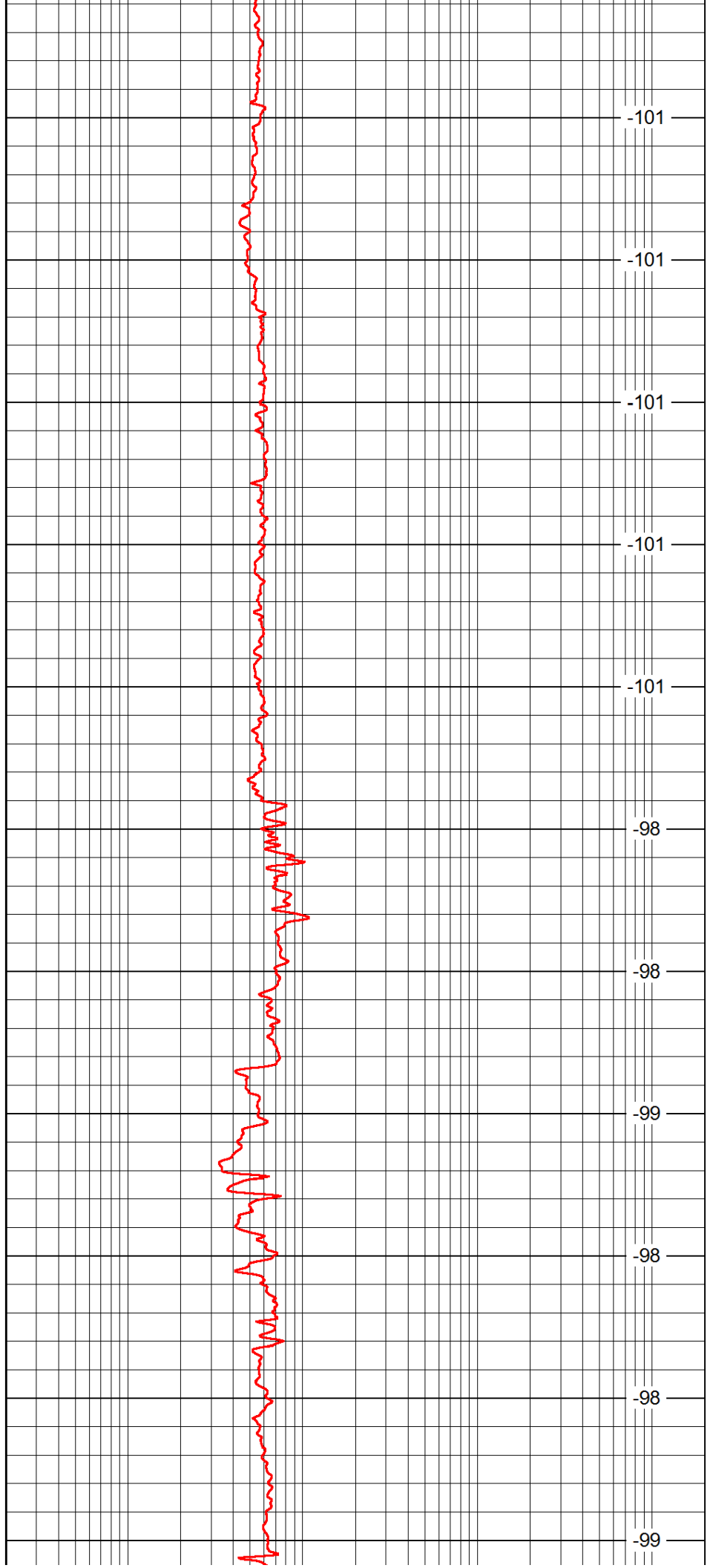
1700

1750

1800

1850

1900



-101

-101

-101

-101

-101

-98

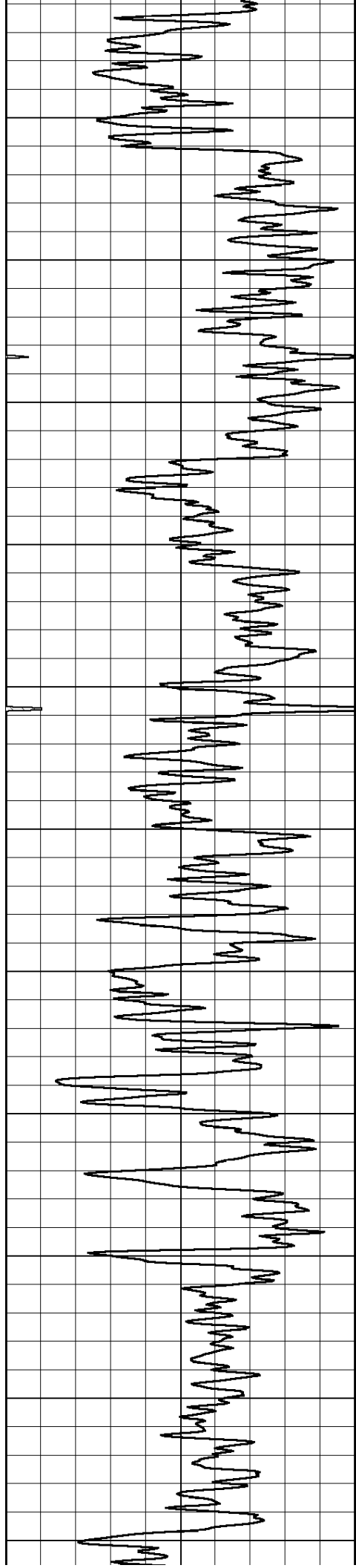
-98

-99

-98

-98

-99



1950

2000

2050

2100

2150

2200

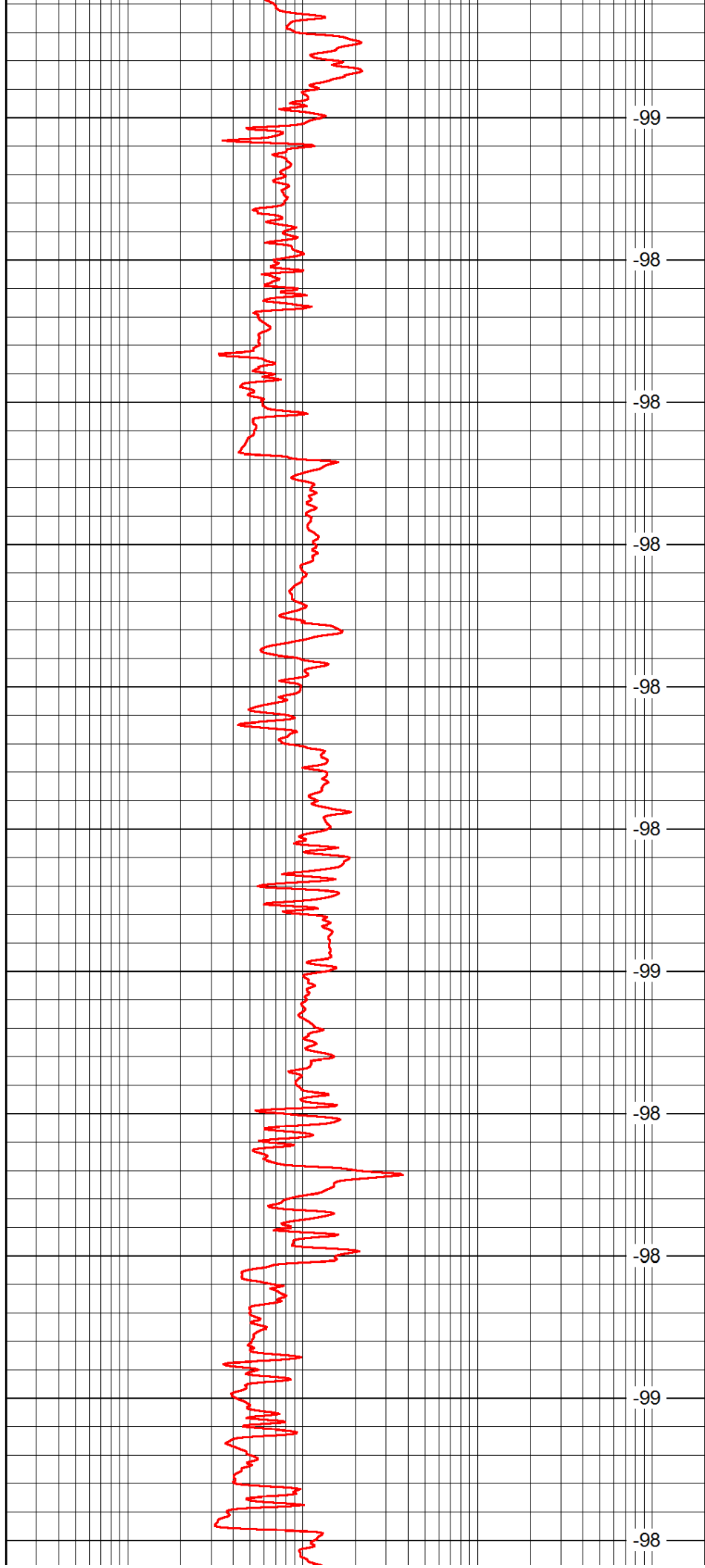
2250

2300

2350

2400

2450



-99

-98

-98

-98

-98

-98

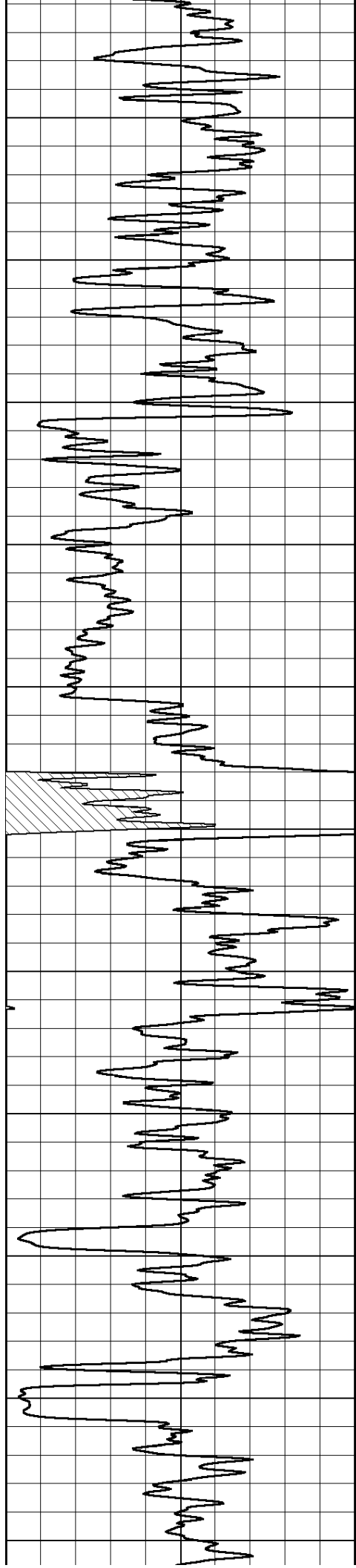
-99

-98

-98

-99

-98



2500

2550

2600

2650

2700

2750

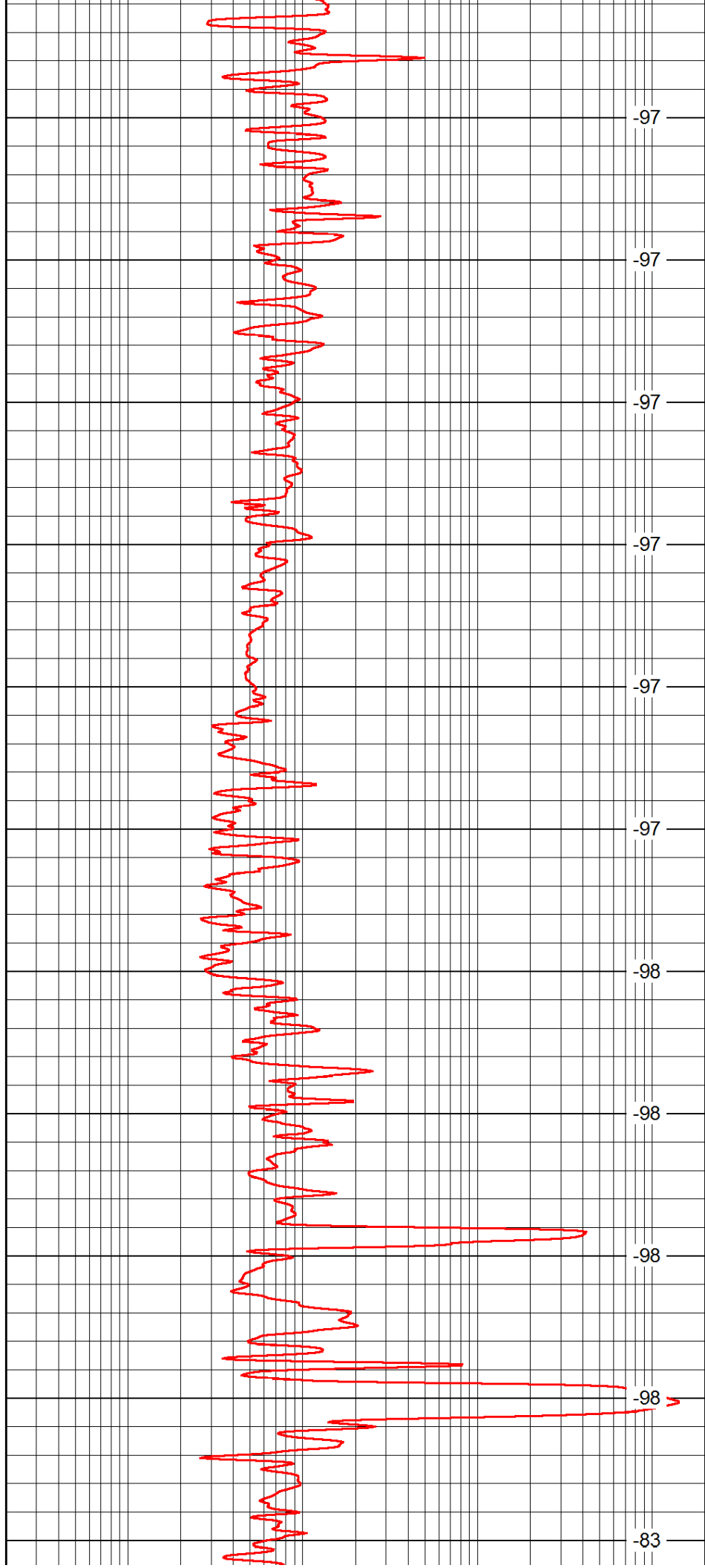
2800

2850

2900

2950

3000



-97

-97

-97

-97

-97

-97

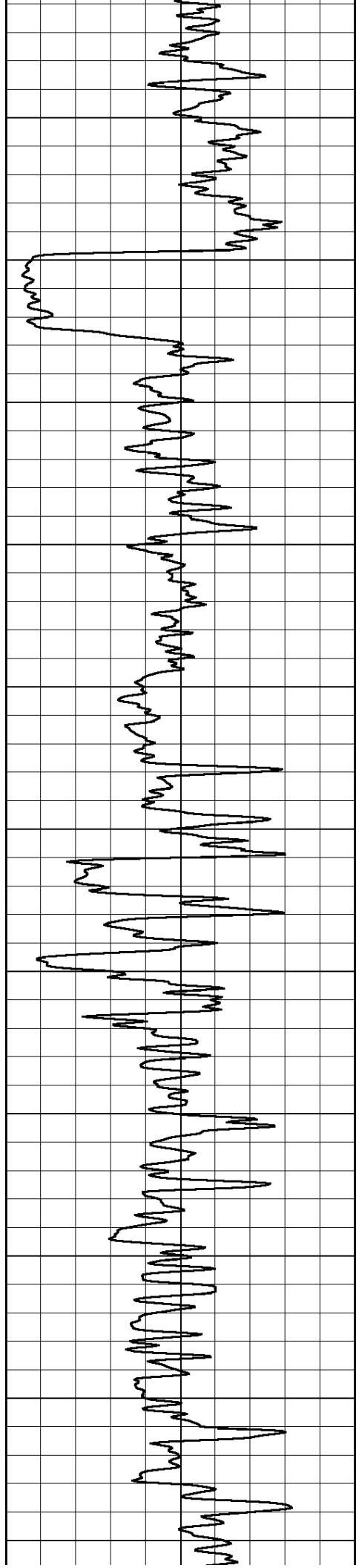
-98

-98

-98

-98

-83



3050

3100

3150

3200

3250

3300

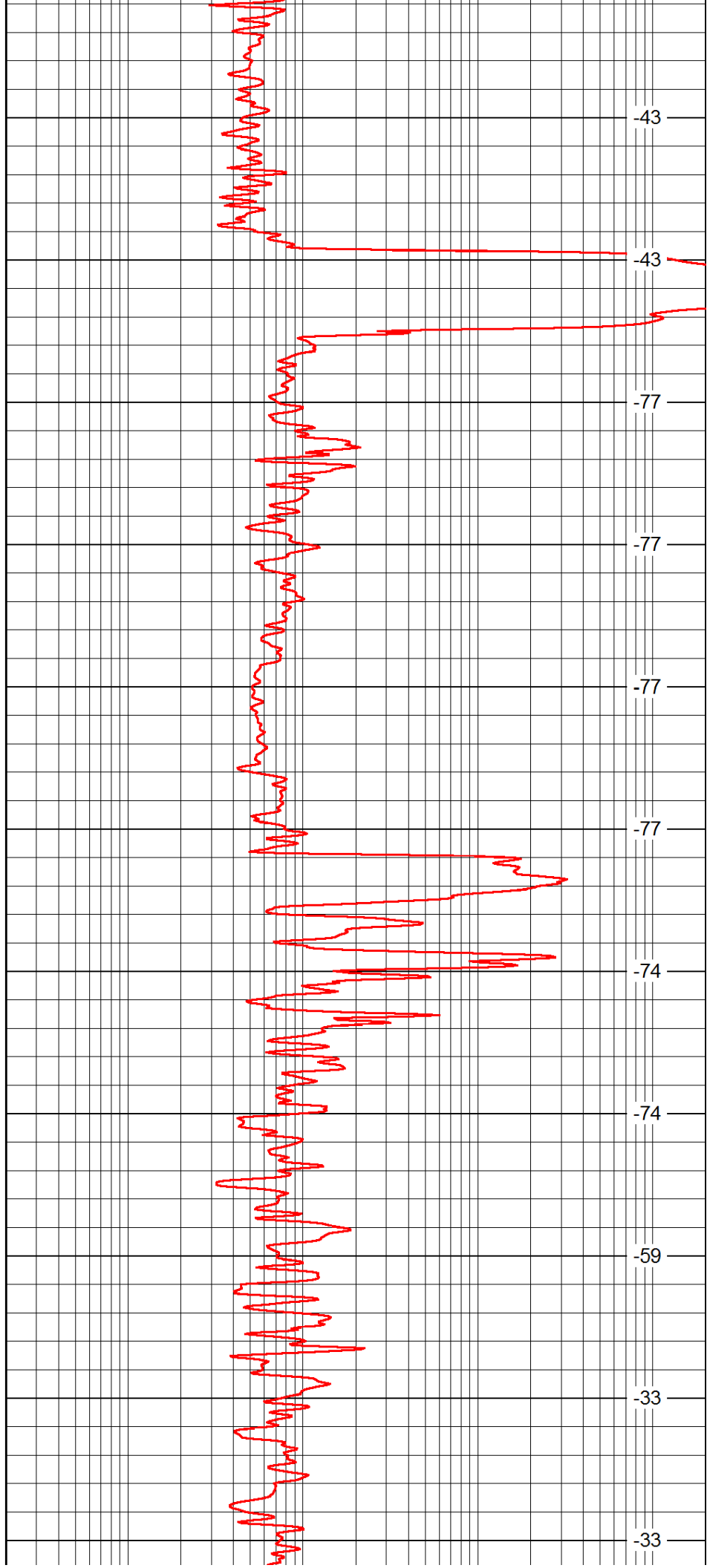
3350

3400

3450

3500

3550



-43

-43

-77

-77

-77

-77

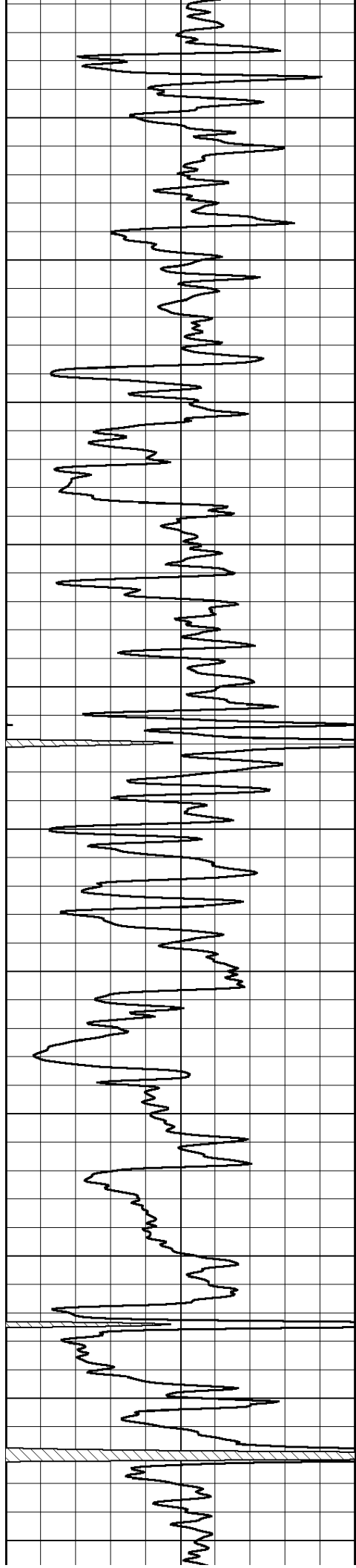
-74

-74

-59

-33

-33



3600

3650

3700

3750

3800

3850

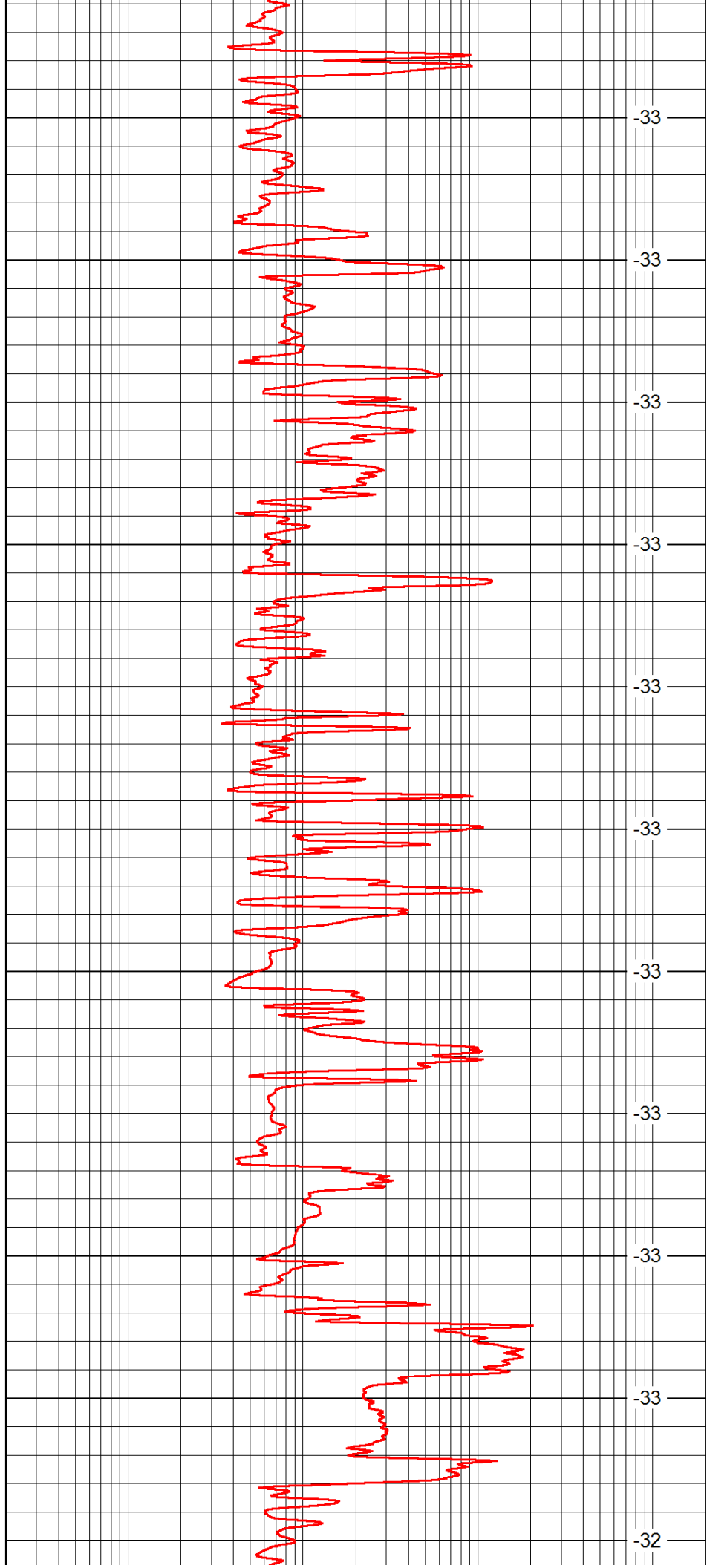
3900

3950

4000

4050

4100



-33

-33

-33

-33

-33

-33

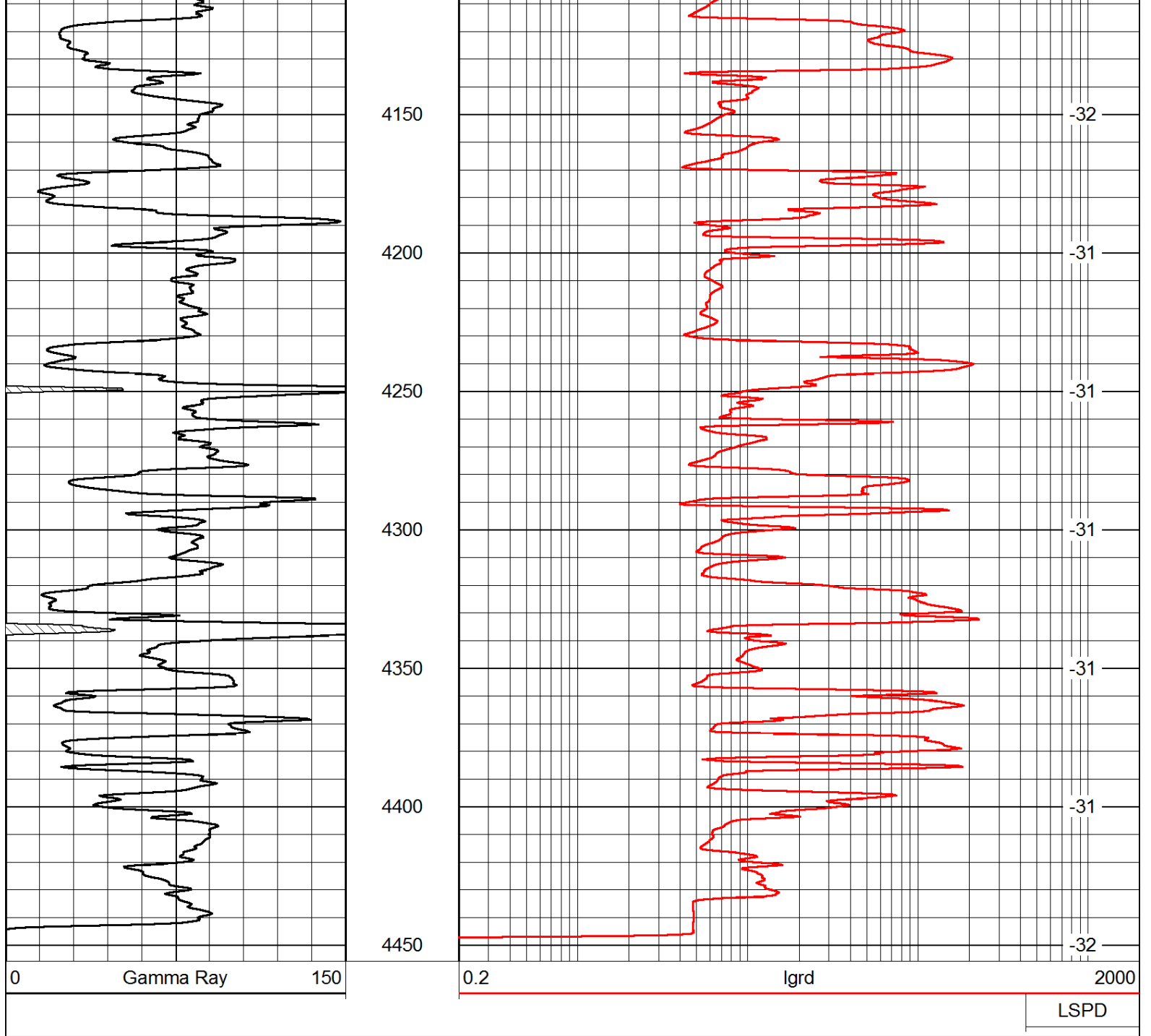
-33

-33

-33

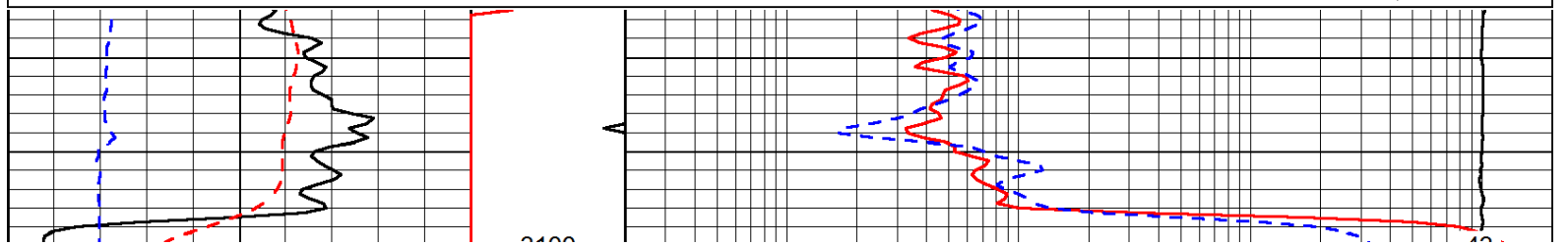
-33

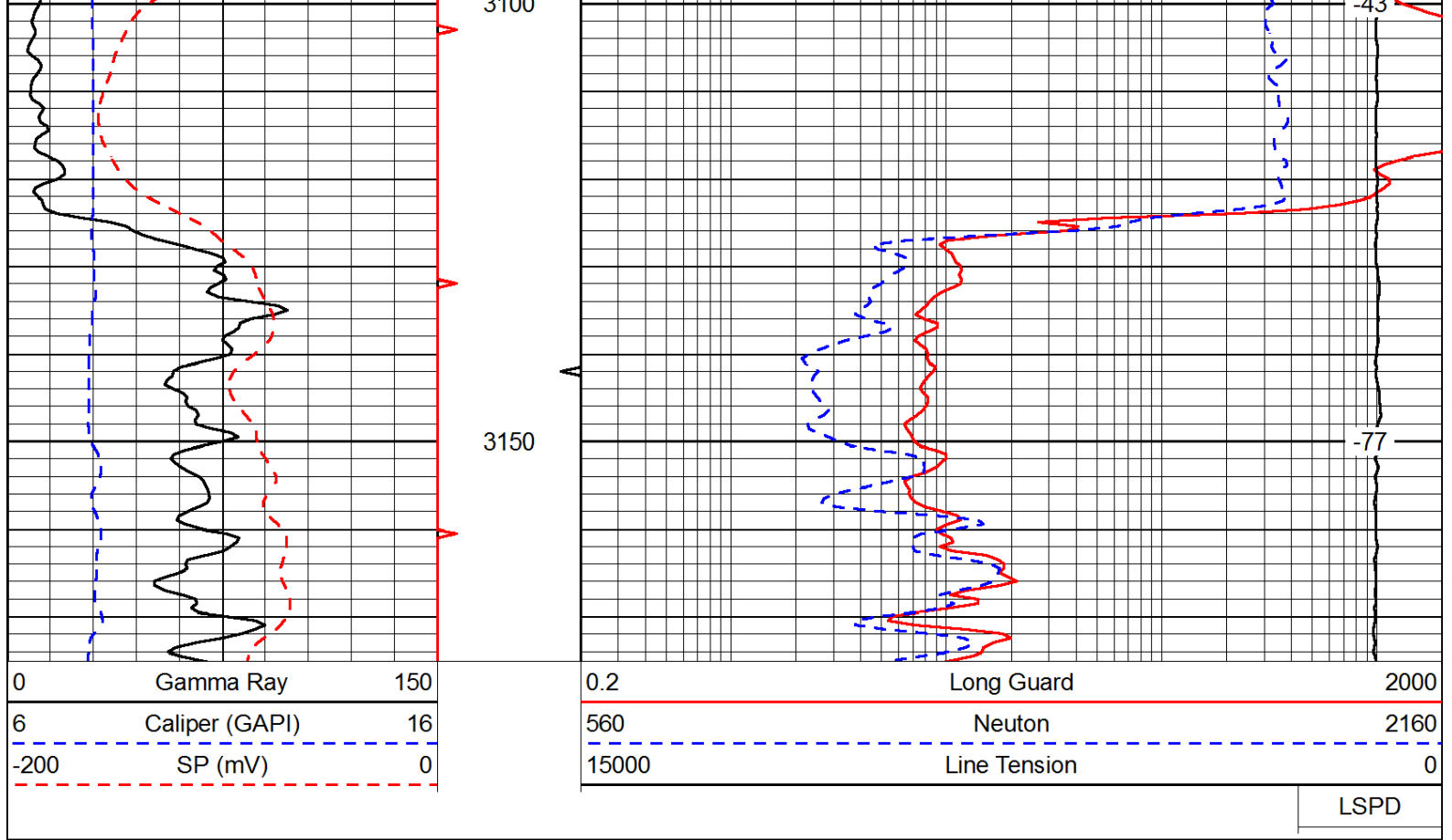
-32



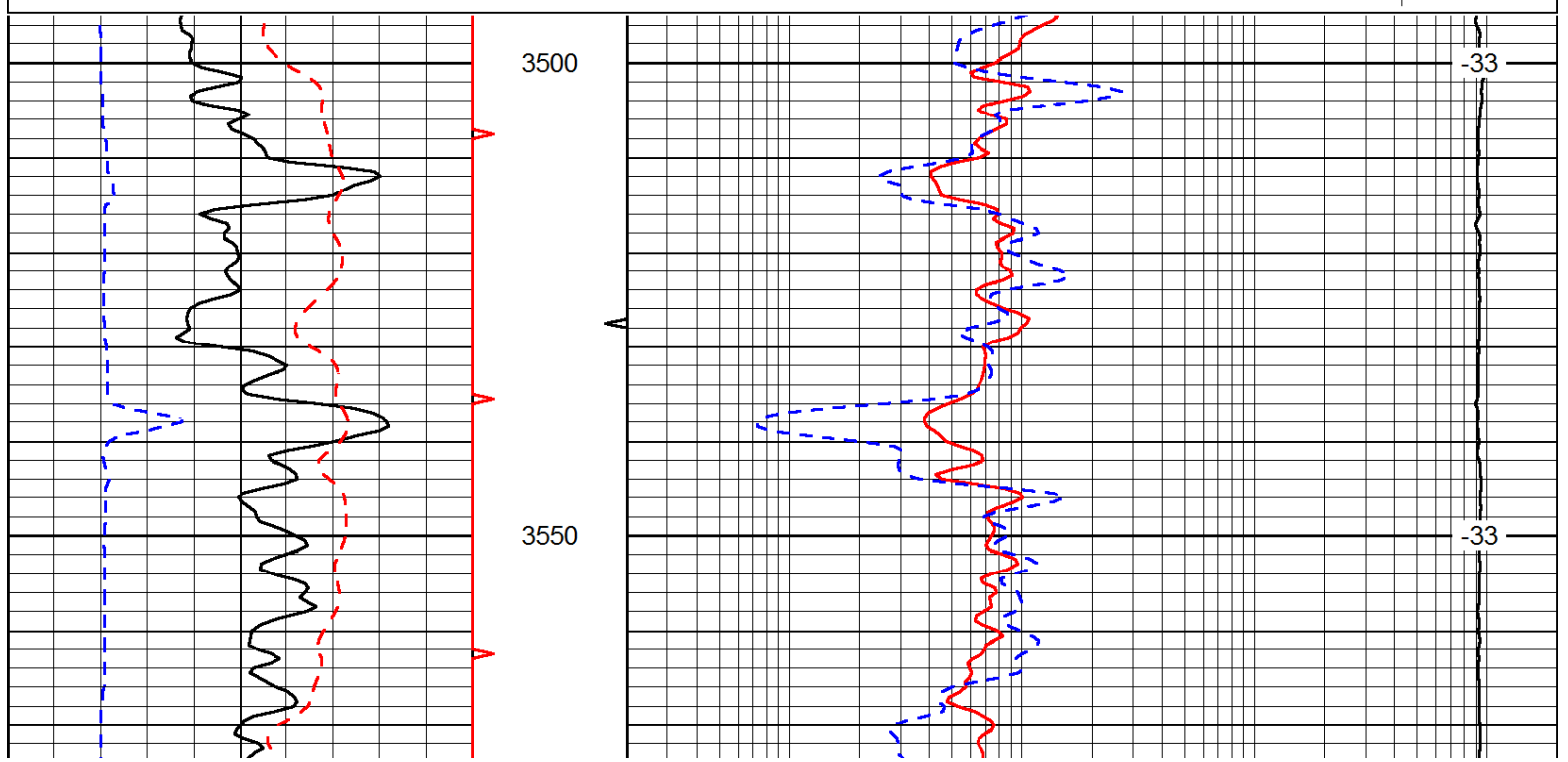
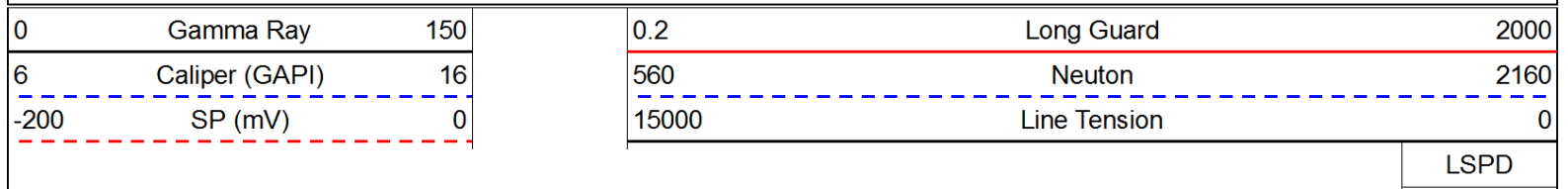
Database File: c:\warrior\data\berexco_michael #4-22\berexco_michael_4-22hd.db
 Dataset Pathname: rag/berrag
 Presentation Format: rag
 Dataset Creation: Wed Mar 05 18:00:45 2014
 Charted by: Depth in Feet scaled 1:240

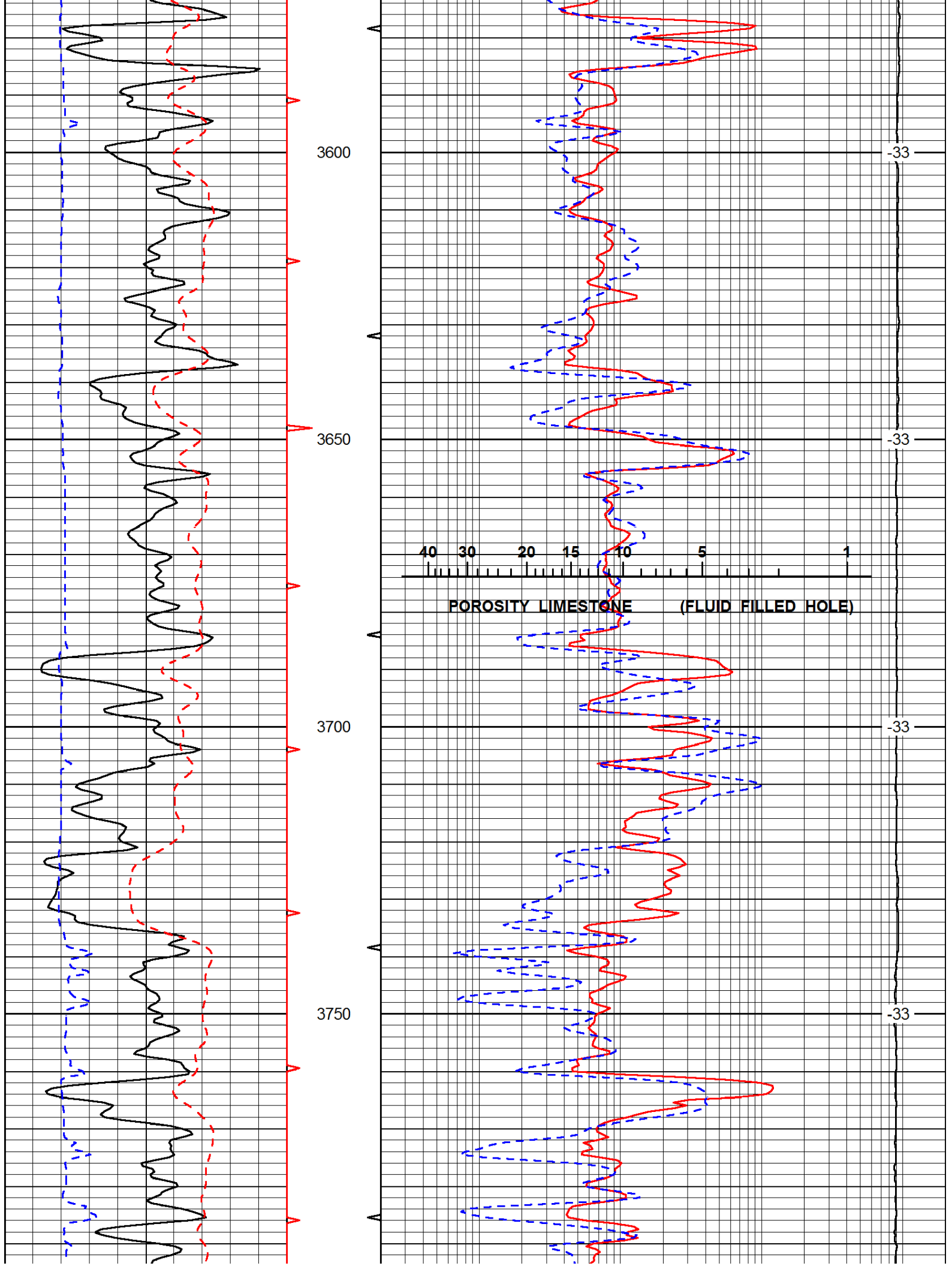
0	Gamma Ray	150	0.2	Long Guard	2000
6	Caliper (GAPI)	16	560	Neutron	2160
-200	SP (mV)	0	15000	Line Tension	0
LSPD					

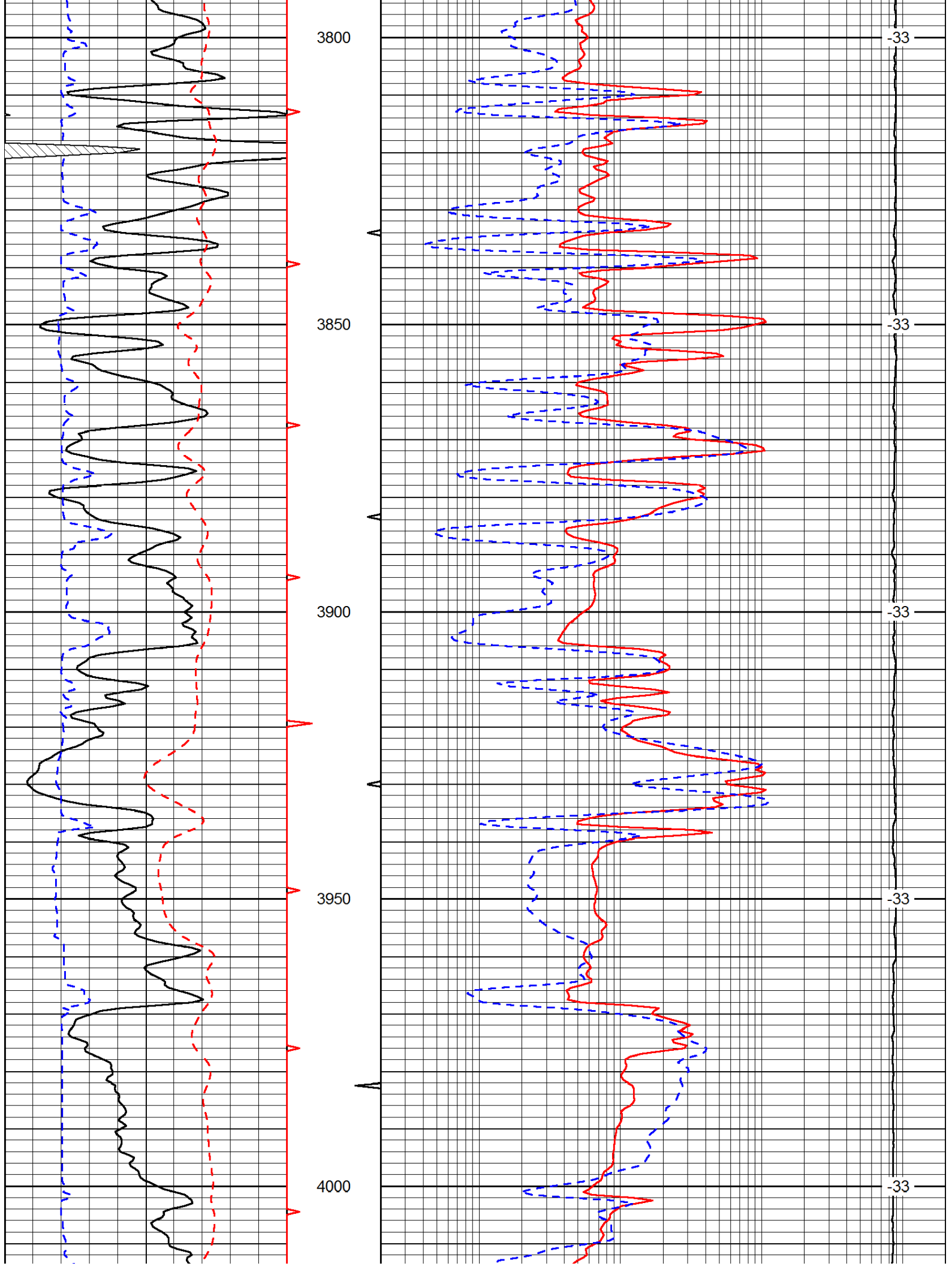


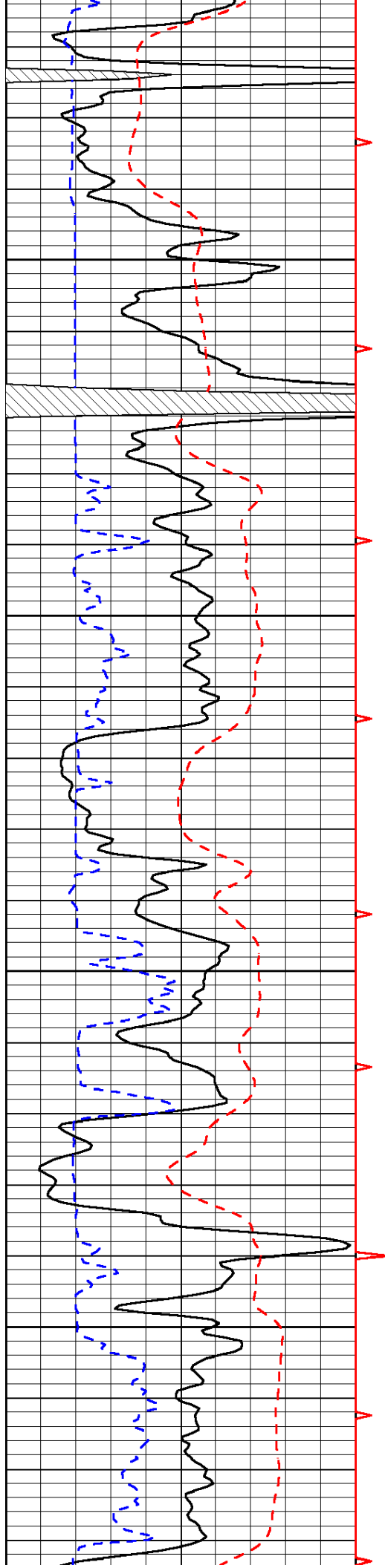


Database File: c:\warrior\data\berexco_michael #4-22\berexco_michael_4-22hd.db
Dataset Pathname: rag/berrag
Presentation Format: rag
Dataset Creation: Wed Mar 05 18:00:45 2014
Charted by: Depth in Feet scaled 1:240







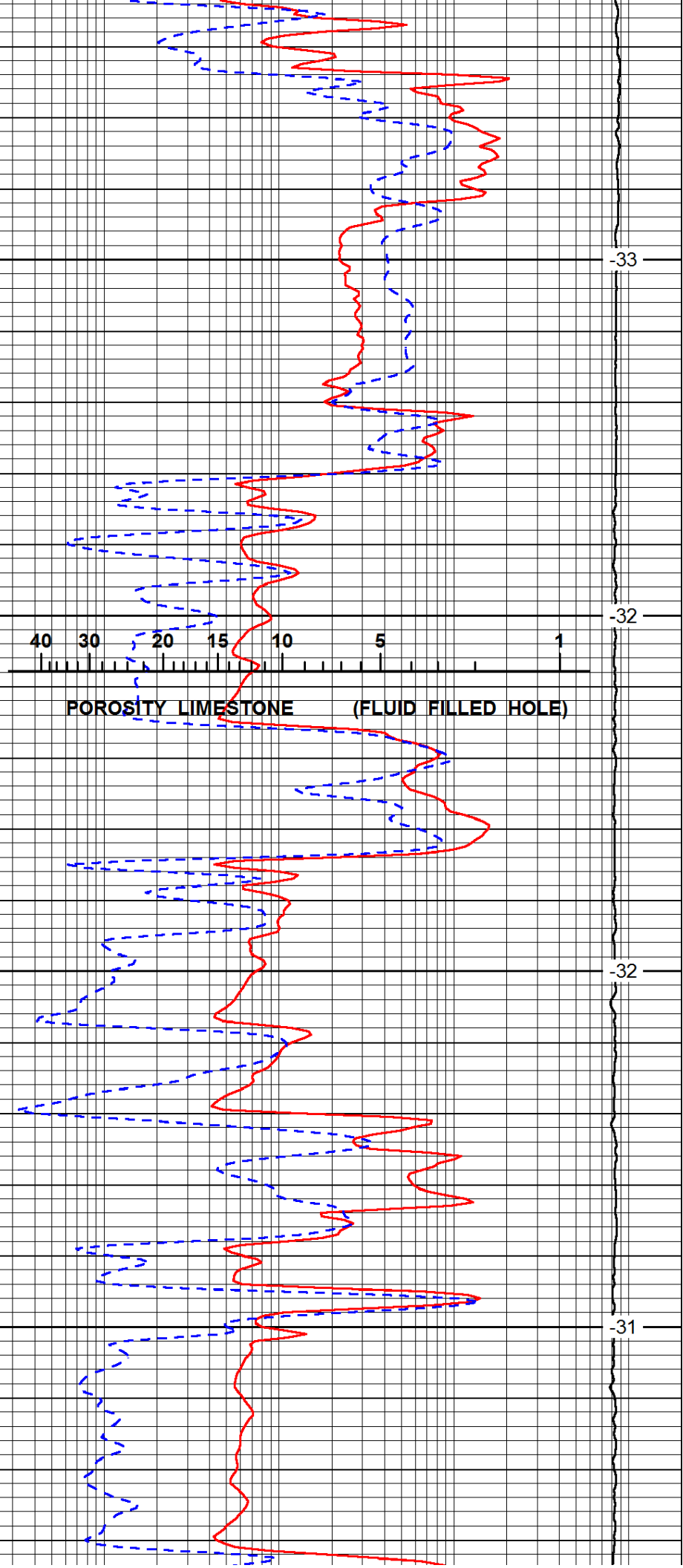


4050

4100

4150

4200



-33

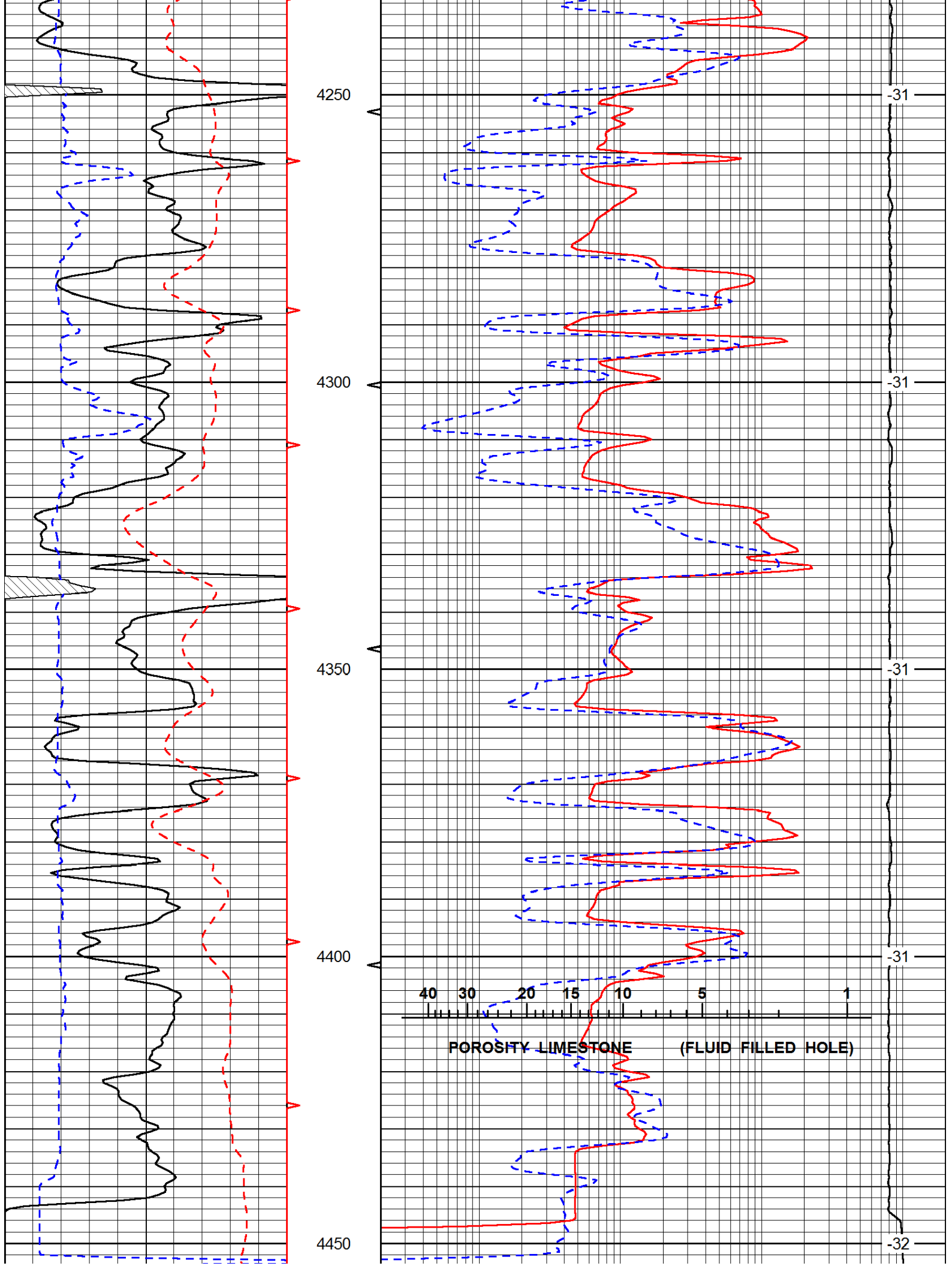
-32

-32

-31

40 30 20 15 10 5 1

POROSITY LIMESTONE (FLUID FILLED HOLE)



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

0.2	Long Guard	2000
560	Neuton	2160
15000	Line Tension	0
		LSPD