



Radiation Guard Log

DIGITAL LOG (785) 625-3858

API No.		Company Cobalt Energy, LLC	
15-065-23,841-00-00		Well Herman-Dreiling Unit "A" No. 1-8	
Field Bryan		County Graham State Kansas	
Location 1,650' FNL & 1,662' FEL		Other Services None	
Sec: 8 Twp: 10S Rge: 24W		Elevation K.B. 2448 D.F. 2443 G.L. 2443	
Permanent Datum Ground Level		Elevation 2443	
Log Measured From Kelly Bushing		5 Ft. Above Perm. Datum	
Drilling Measured From Kelly Bushing			
Date	7/28/2011		
Run Number	One		
Depth Driller	4050		
Depth Logger	4050		
Bottom Logged Interval	4049		
Top Log Interval	200		
Casing Driller	8.625 @ 220		
Casing Logger	219		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	1200		
Density / Viscosity	9.0 56		
pH / Fluid Loss	10.5 6.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	.67 @ 84		
Rmf @ Meas. Temp	.50 @ 84		
Rmc @ Meas. Temp	.90 @ 84		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.48 @ 117		
Operating Rig Time	2 1/2 Hours		
Max Rec. Temp. F	117		
Equipment Number	108		
Location	Hays		
Recorded By	J. Long		
Witnessed By	Corey N. Baker		

<<< Fold Here >>>

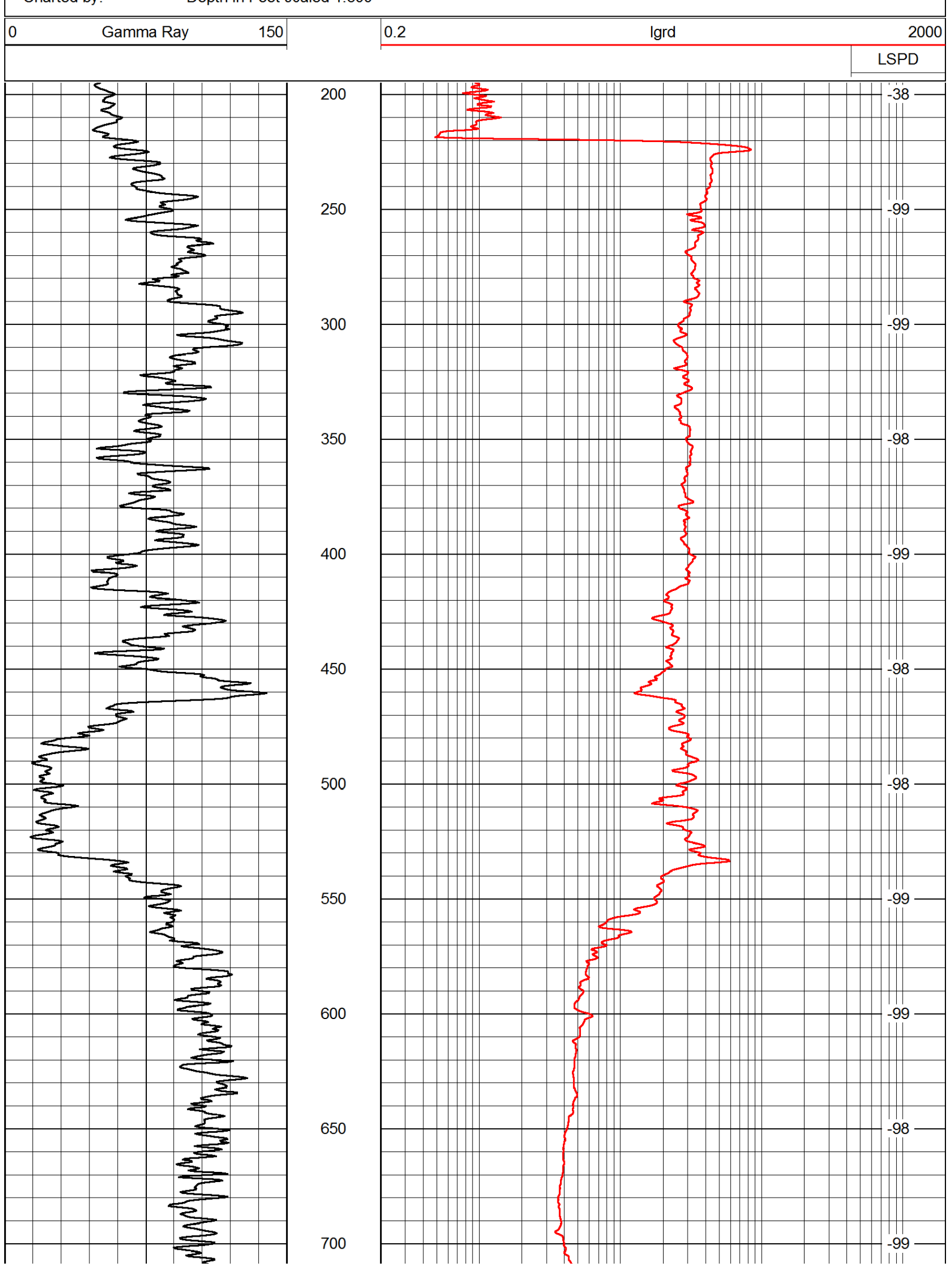
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

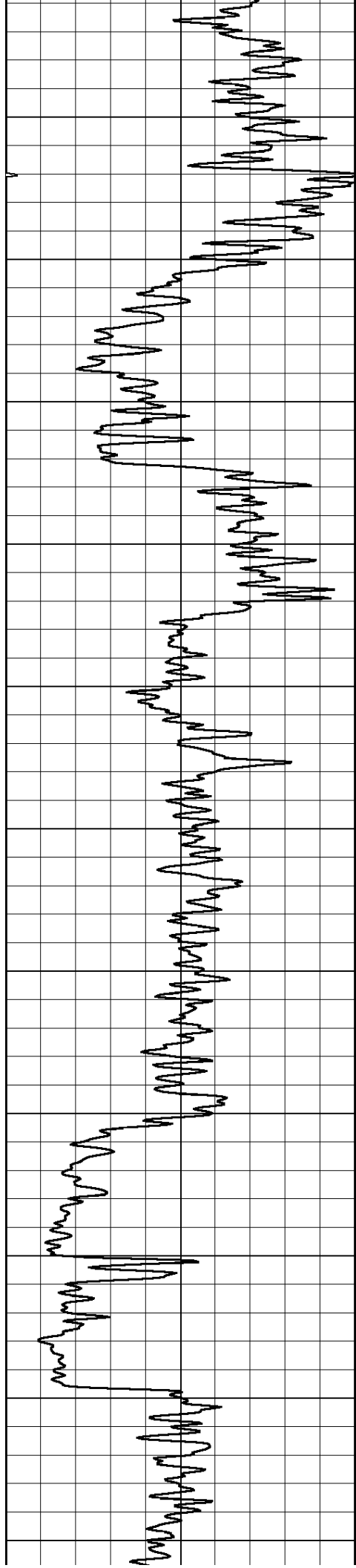
Comments

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

St. Peter, 2 North, 4 East, 1 South, Southwest Into

Database File: c:\warrior\data\cobalt_herman-dreiling unit a no. 1-8\cobalt_hermandreiling_a_1-8hd.db
Dataset Pathname: rag/cobrag
Presentation Format: rag2in
Dataset Creation: Sat Jul 28 08:19:33 2012
Charted by: Depth in Feet scaled 1:600





750

800

850

900

950

1000

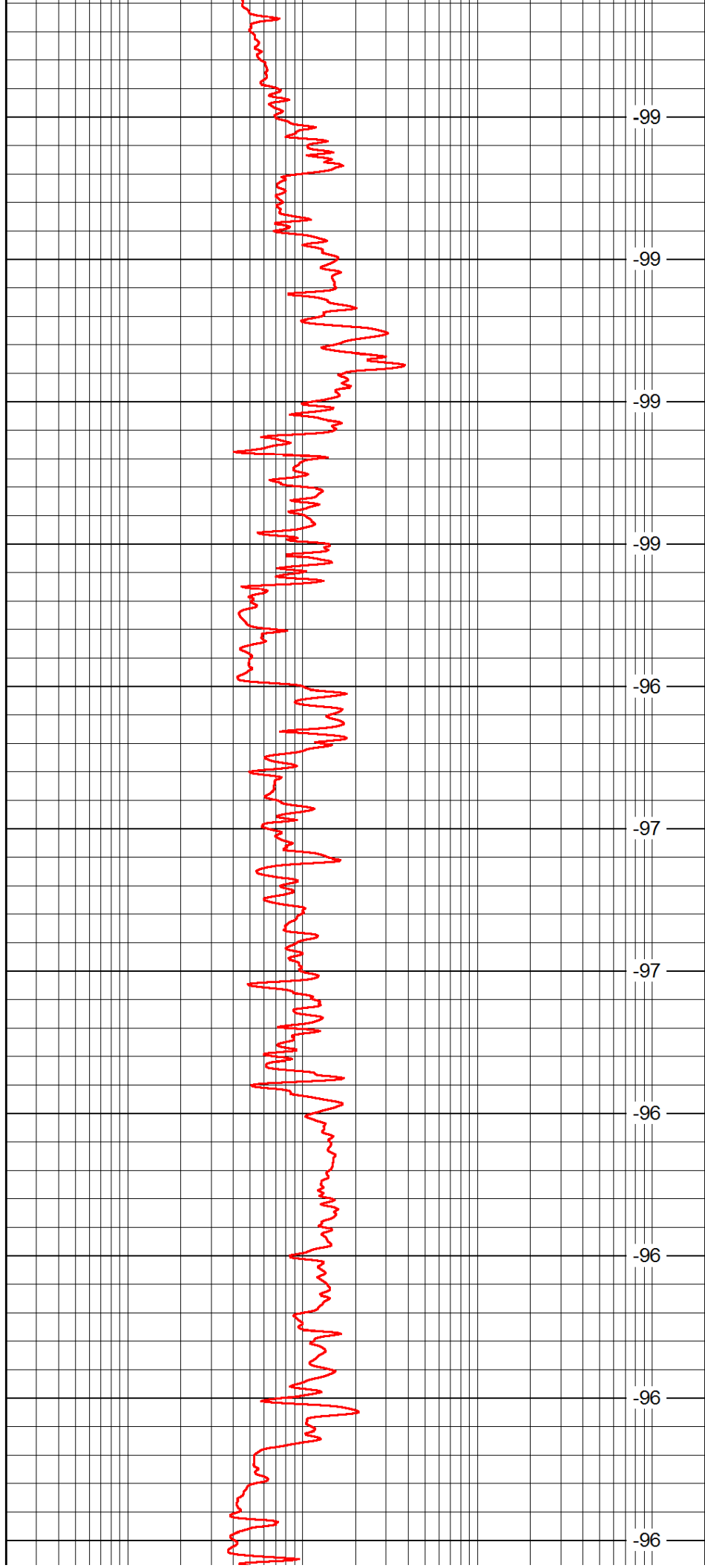
1050

1100

1150

1200

1250



-99

-99

-99

-99

-96

-97

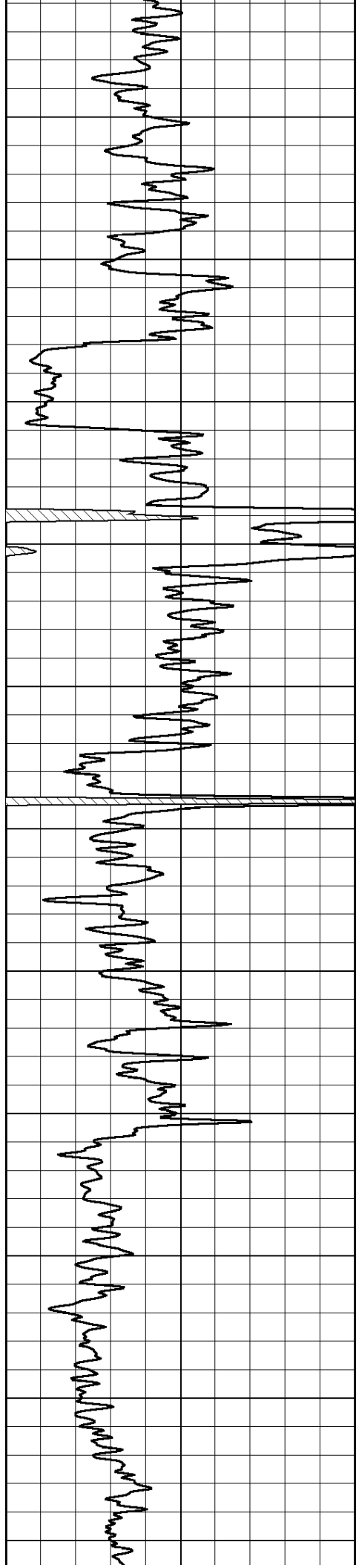
-97

-96

-96

-96

-96



1300

1350

1400

1450

1500

1550

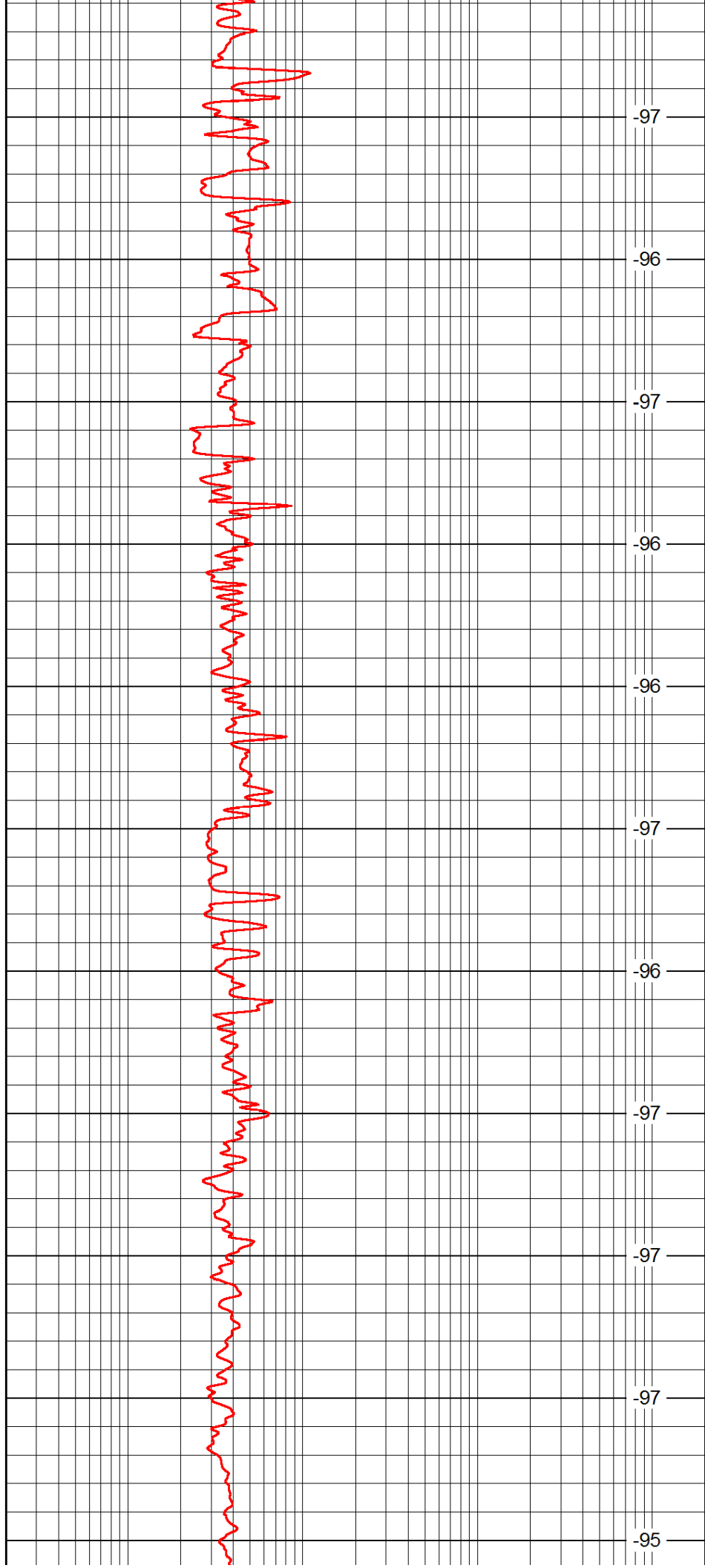
1600

1650

1700

1750

1800



-97

-96

-97

-96

-96

-97

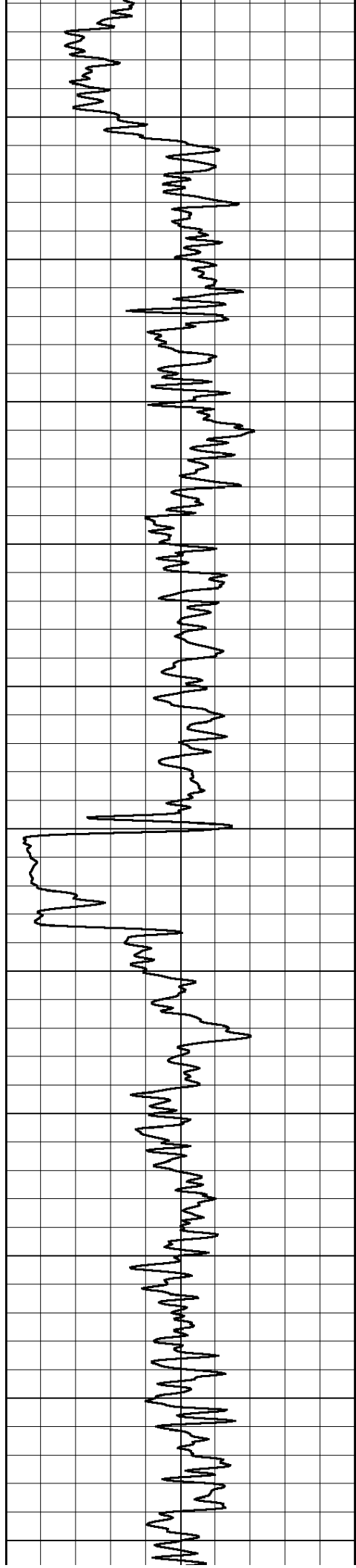
-96

-97

-97

-97

-95



1850

1900

1950

2000

2050

2100

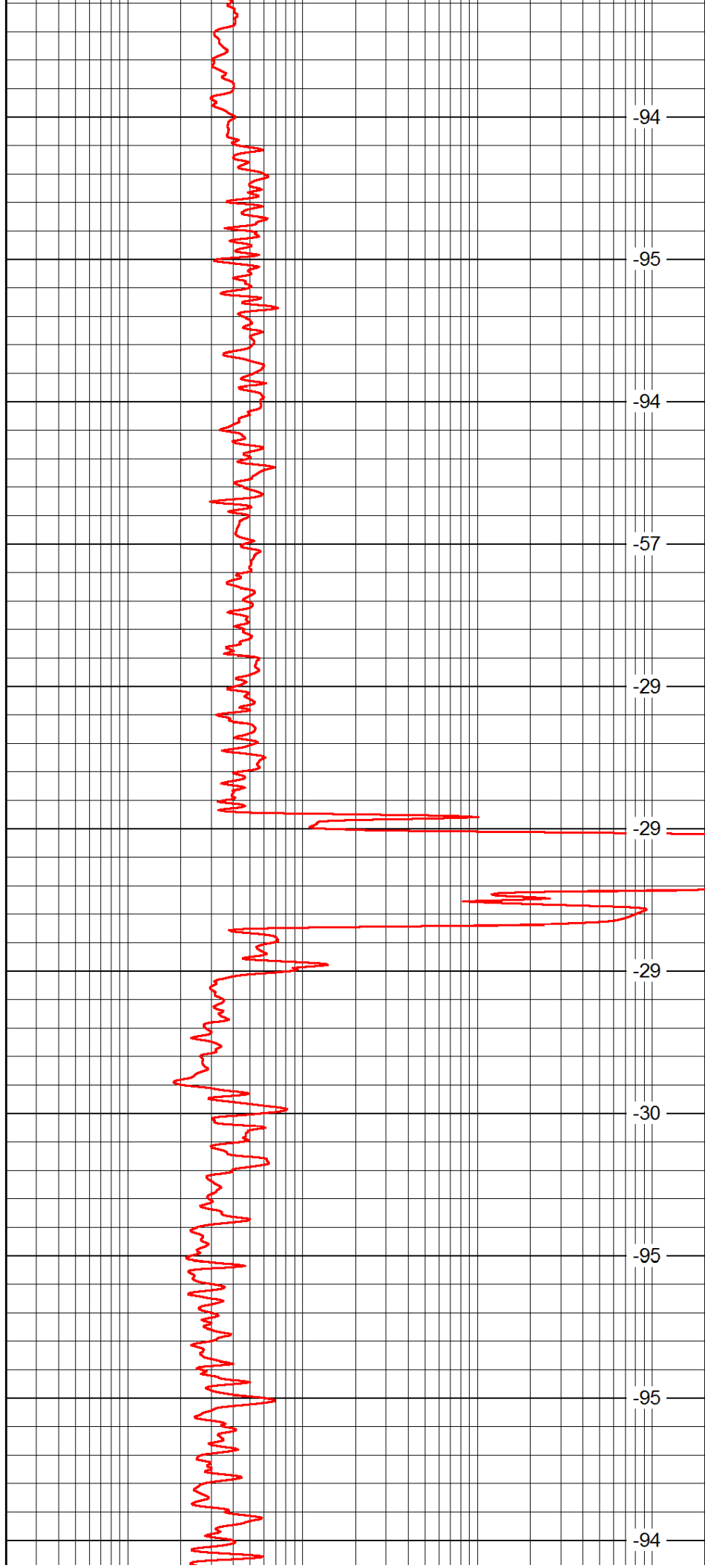
2150

2200

2250

2300

2350



-94

-95

-94

-57

-29

-29

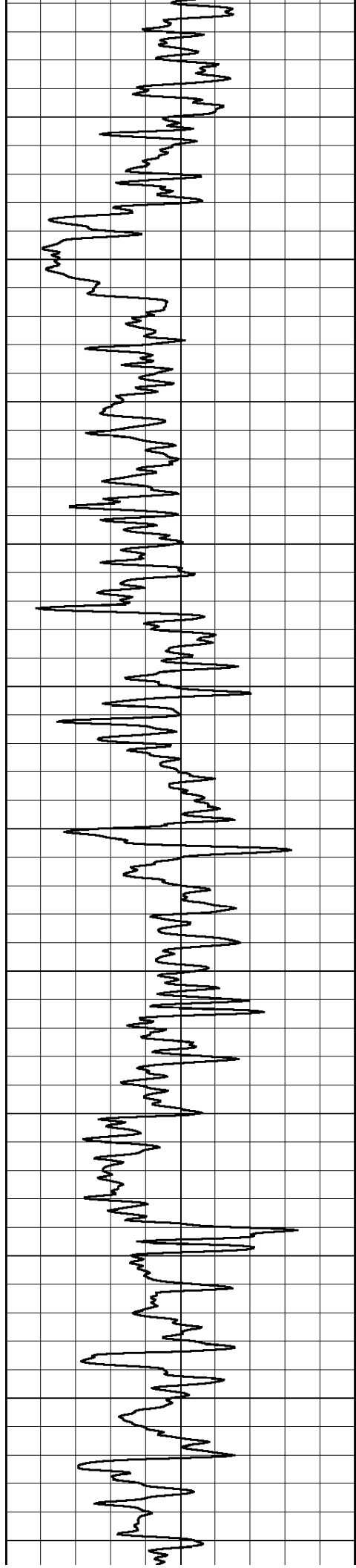
-29

-30

-95

-95

-94



2400

2450

2500

2550

2600

2650

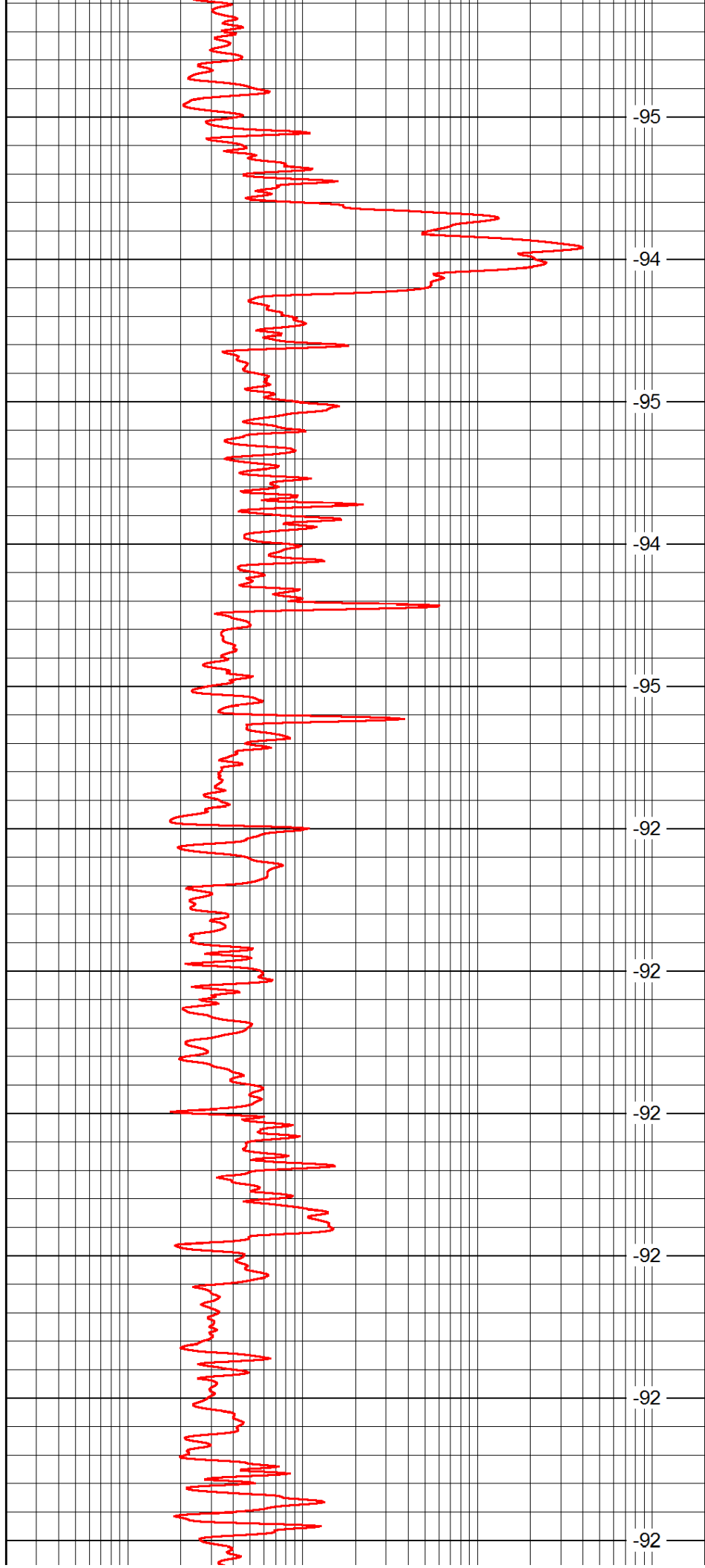
2700

2750

2800

2850

2900



-95

-94

-95

-94

-95

-92

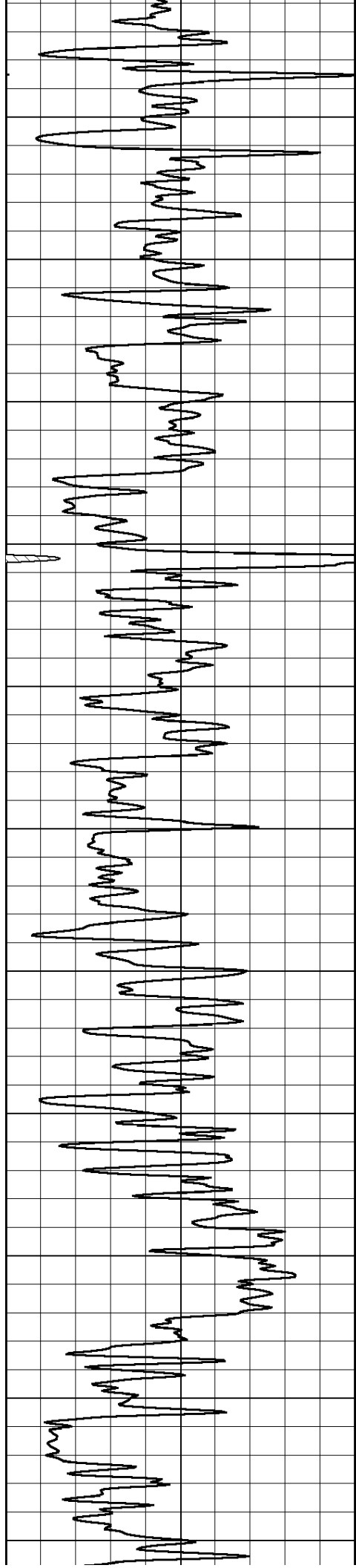
-92

-92

-92

-92

-92



2950

3000

3050

3100

3150

3200

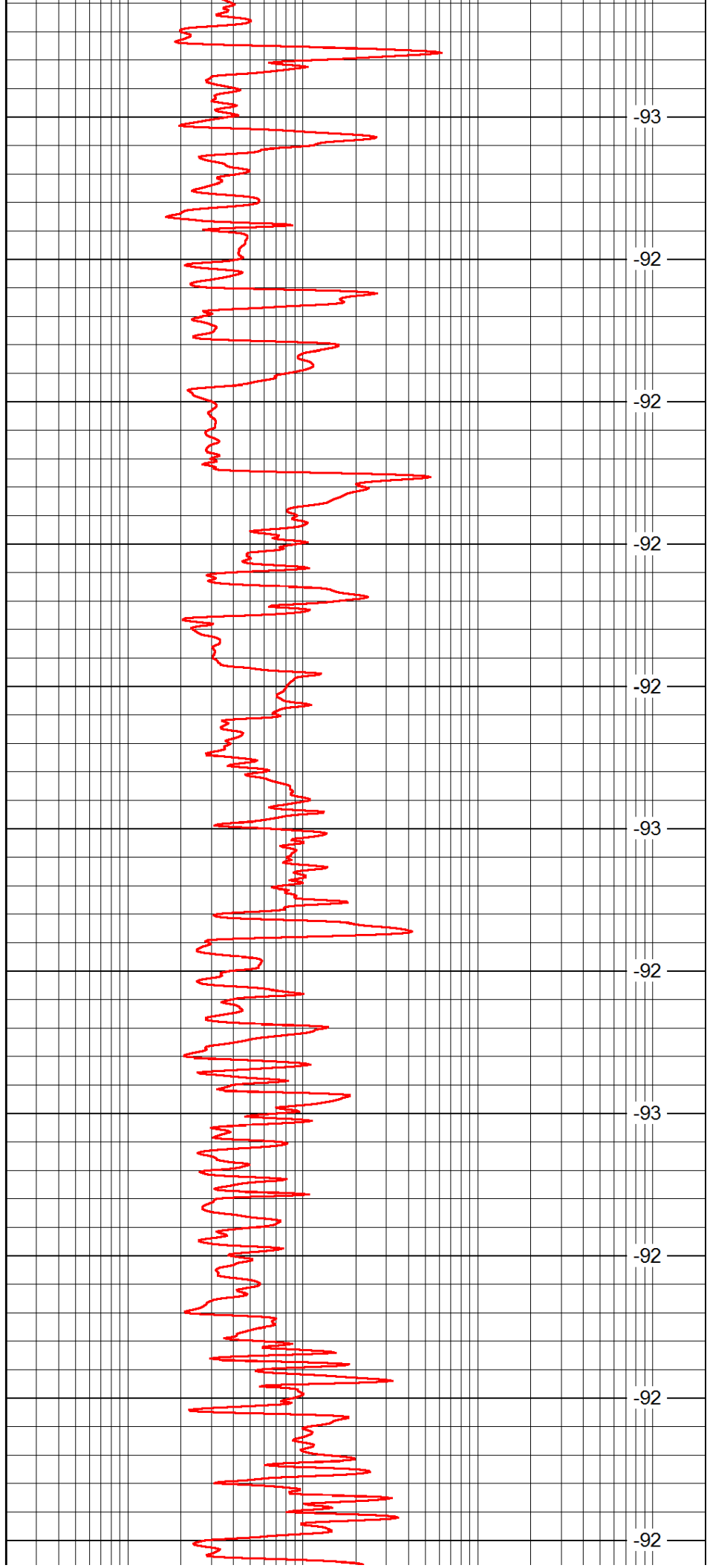
3250

3300

3350

3400

3450



-93

-92

-92

-92

-92

-93

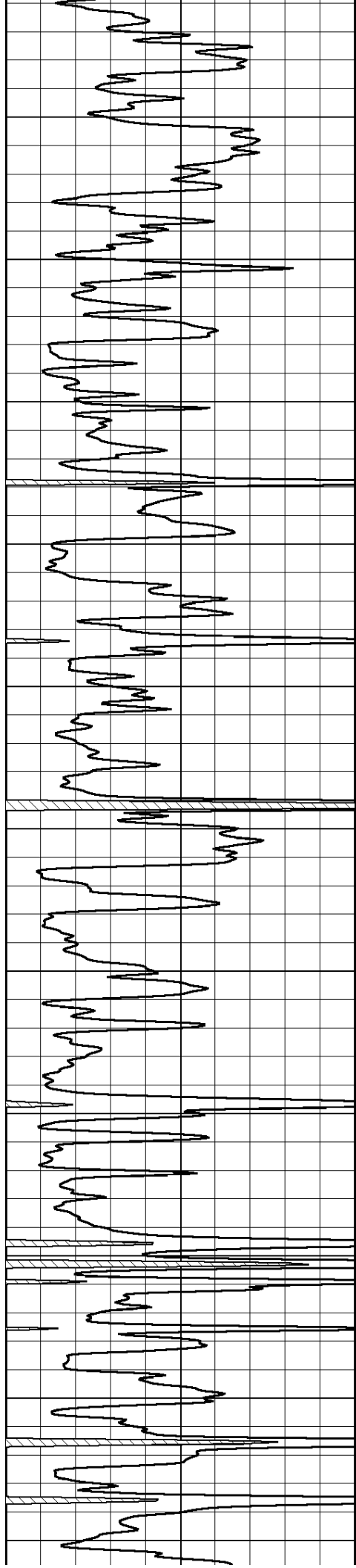
-92

-93

-92

-92

-92



3500

3550

3600

3650

3700

3750

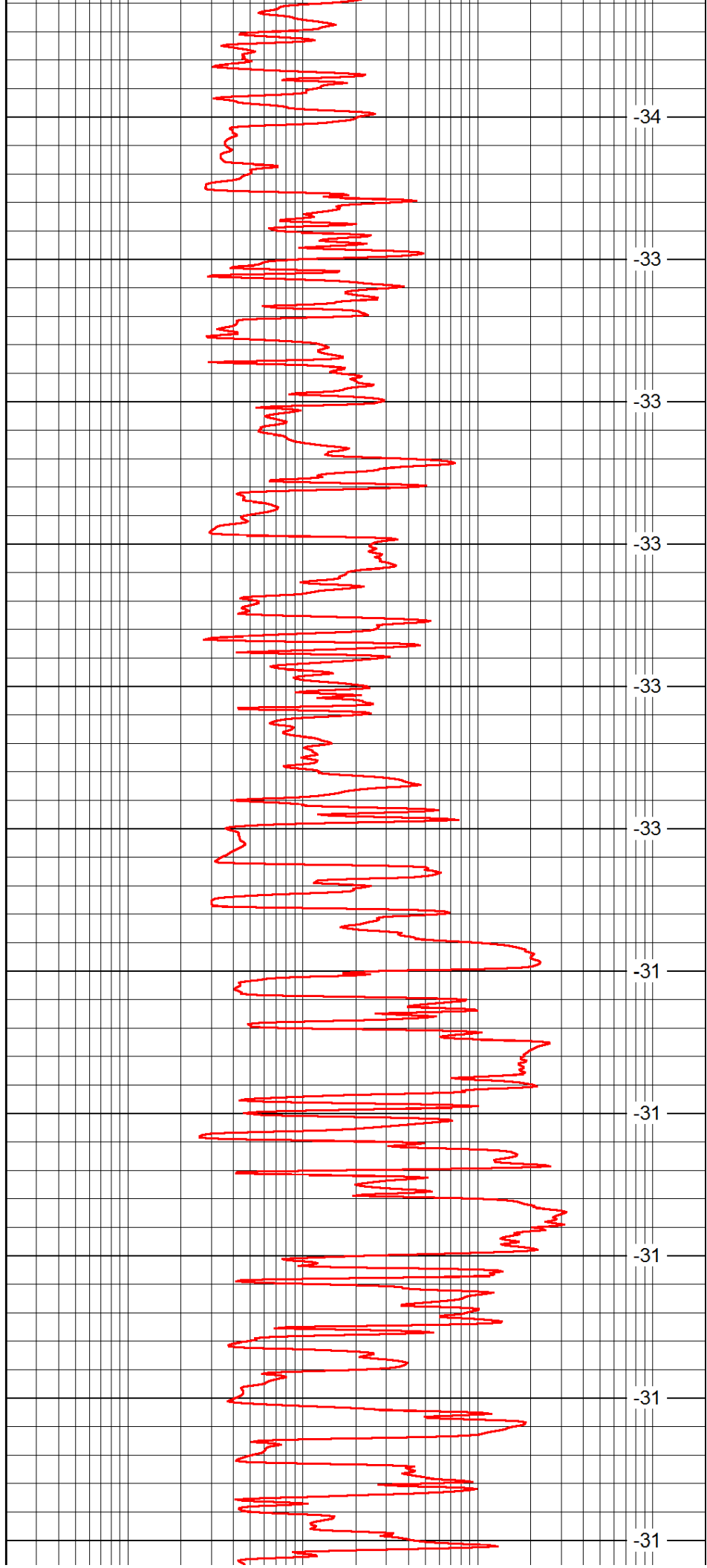
3800

3850

3900

3950

4000



-34

-33

-33

-33

-33

-33

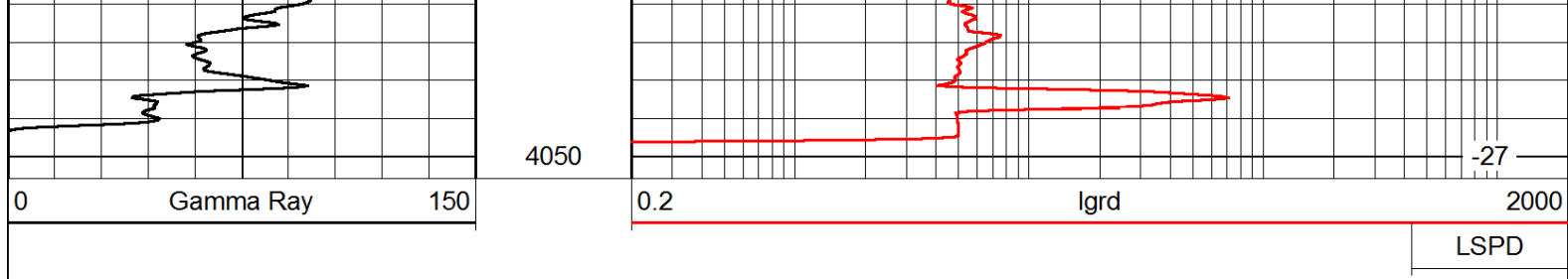
-31

-31

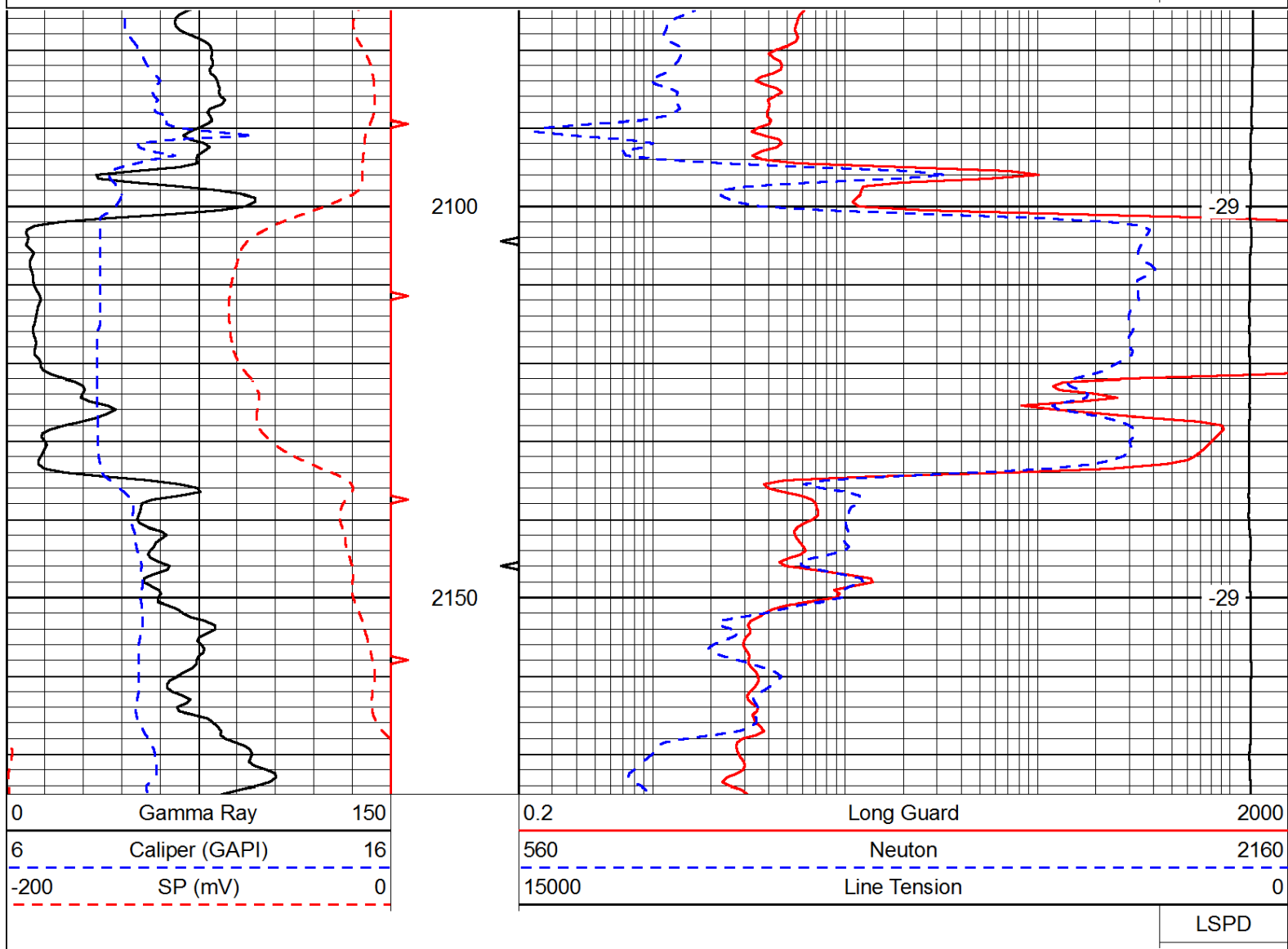
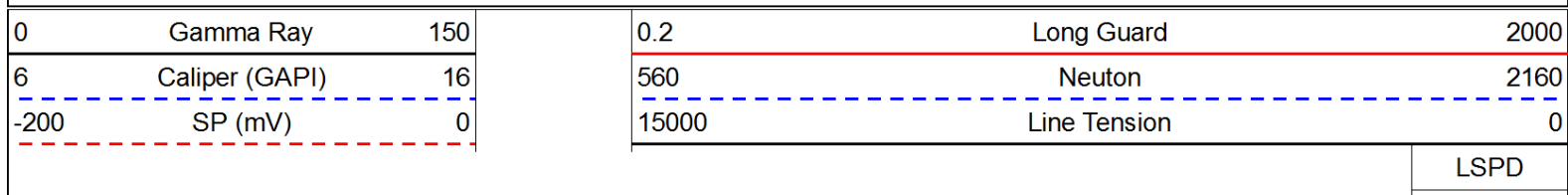
-31

-31

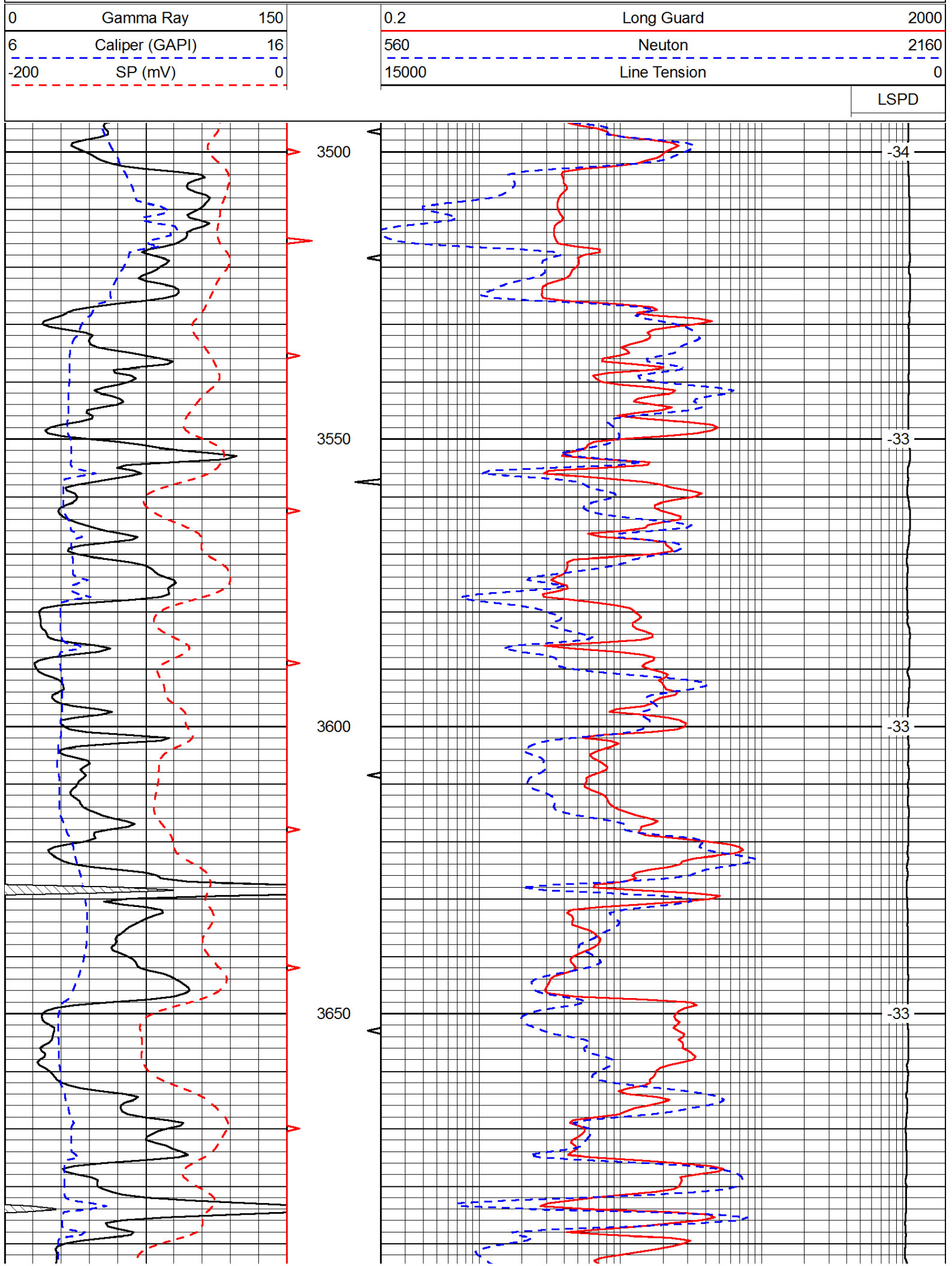
-31

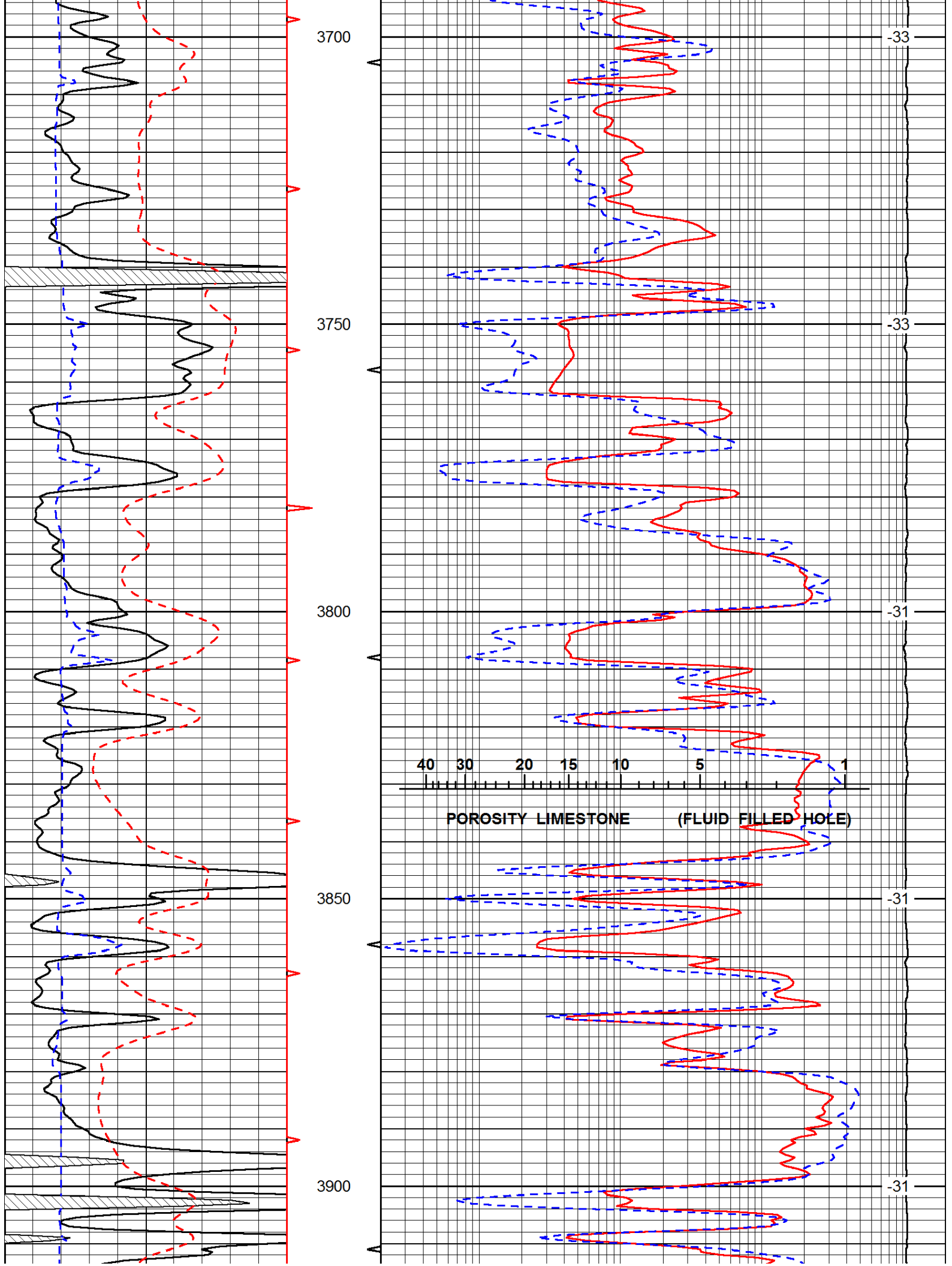


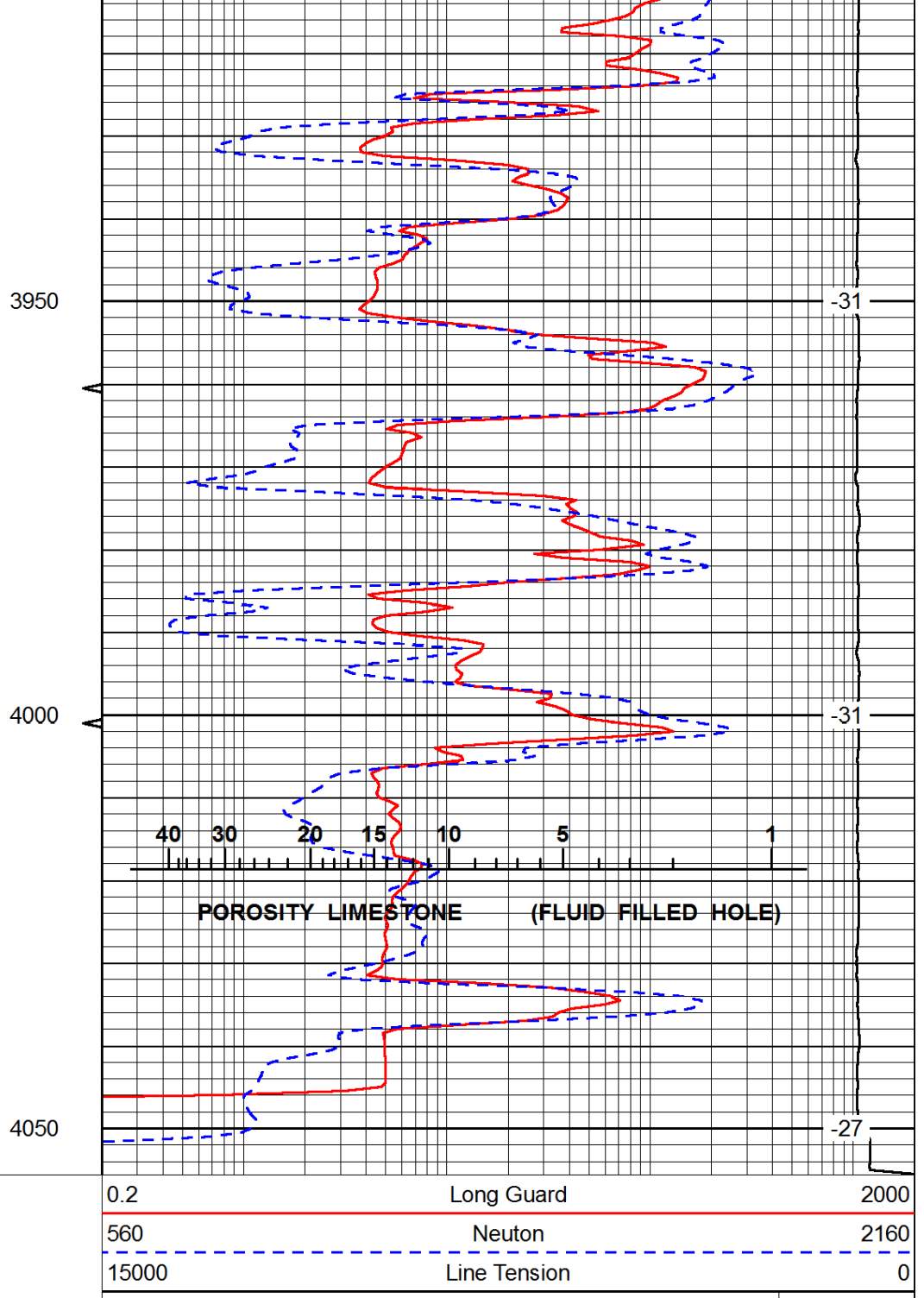
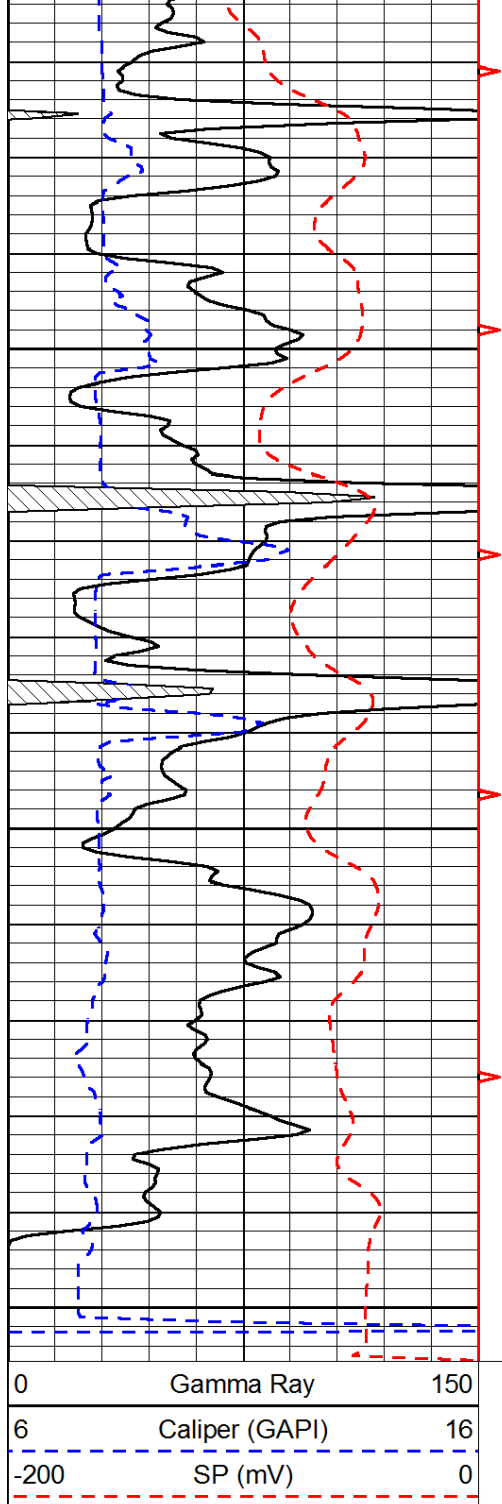
Database File: c:\warrior\data\cobalt_herman-dreiling unit a no. 1-8\cobalt_hermandreiling_a_1-8hd.db
Dataset Pathname: rag/cobrag
Presentation Format: rag
Dataset Creation: Sat Jul 28 08:19:33 2012
Charted by: Depth in Feet scaled 1:240



Database File: c:\warrior\data\cobalt_herman-dreiling unit a no. 1-8\cobalt_hermandreiling_a_1-8hd.db
Dataset Pathname: rag/cobrag
Presentation Format: rag
Dataset Creation: Sat Jul 28 08:19:33 2012
Charted by: Depth in Feet scaled 1:240







LSPD