



Pioneer Energy Services

# Radiation Guard Log

15-167-24,011-00-00

API No.

Company **Brungardt Oil & Leasing, Inc.**

Well **Stranger Valley #1**

Field  
County **Russell** State **Kansas**

Location **1540' FSL & 465' FEL**

Sec: **26** Twp: **12s** Rge: **15w**

Permanent Datum **Ground Level** Elevation **1803**

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

Drilling Measured From **Frontkelly Bushing**

Other Services  
Elevation  
MEL  
K.B. 1808  
D.F. 1803  
G.L. 1803

Date **10/28/2014**

Run Number **One**

Depth Driller **3330**

Depth Logger **3329**

Bottom Logged Interval **3328**

Top Log Interval **200**

Casing Driller **8.625 @ 219**

Casing Logger **216**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **3700**

Density / Viscosity **9.3 60**

pH / Fluid Loss **10.5 10.4**

Source of Sample **Flowline**

Rm @ Meas. Temp **.50 @ 68**

Rmf @ Meas. Temp **.38 @ 68**

Rmc @ Meas. Temp **.68 @ 68**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.31 @ 109**

Operating Rig Time **3.5 Hours**

Max Rec. Temp. F **109**

Equipment Number **108**

Location **Hays**

Recorded By **D. Fischer**

Witnessed By **Brad Hutchison**

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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.

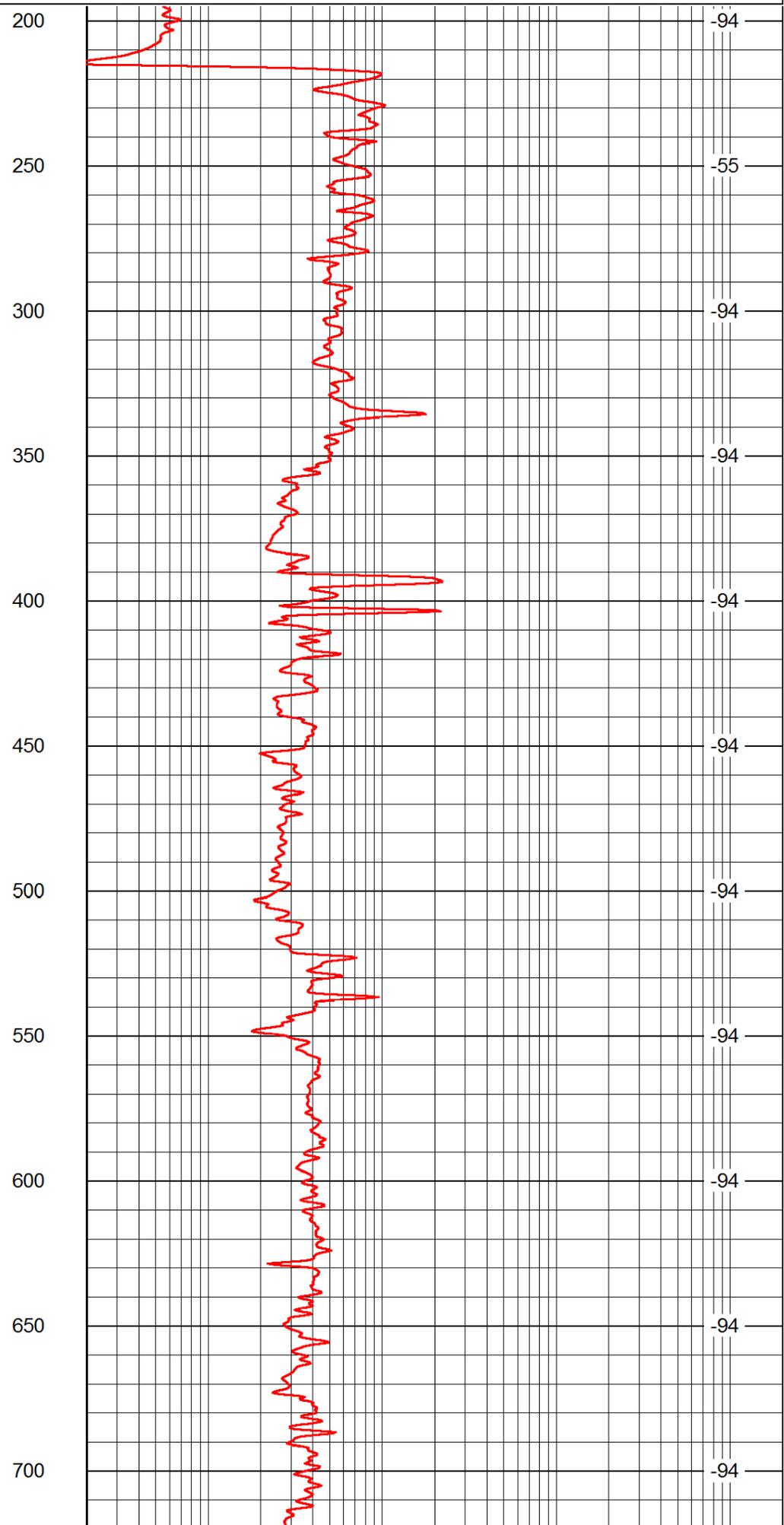
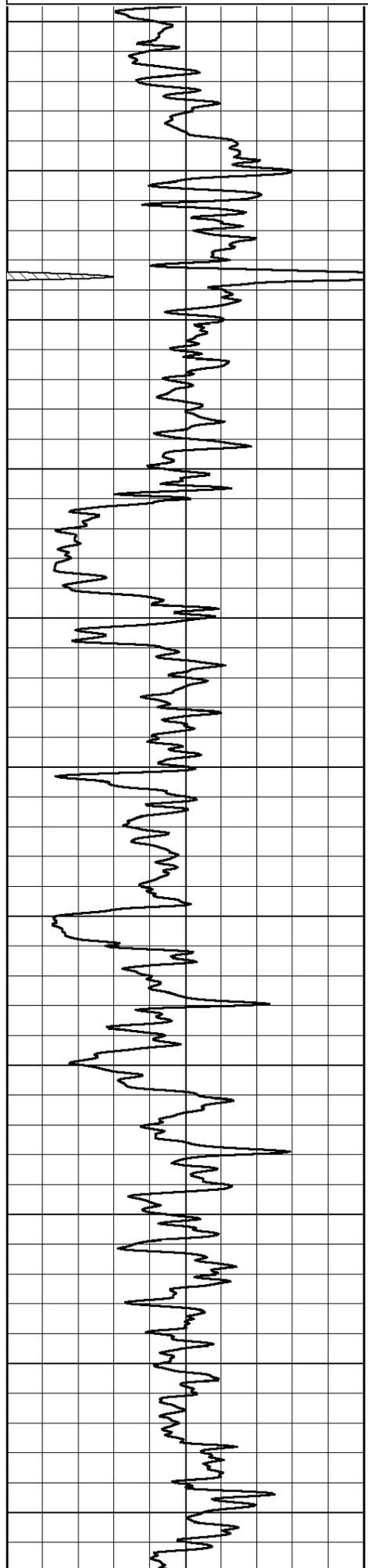
### Comments

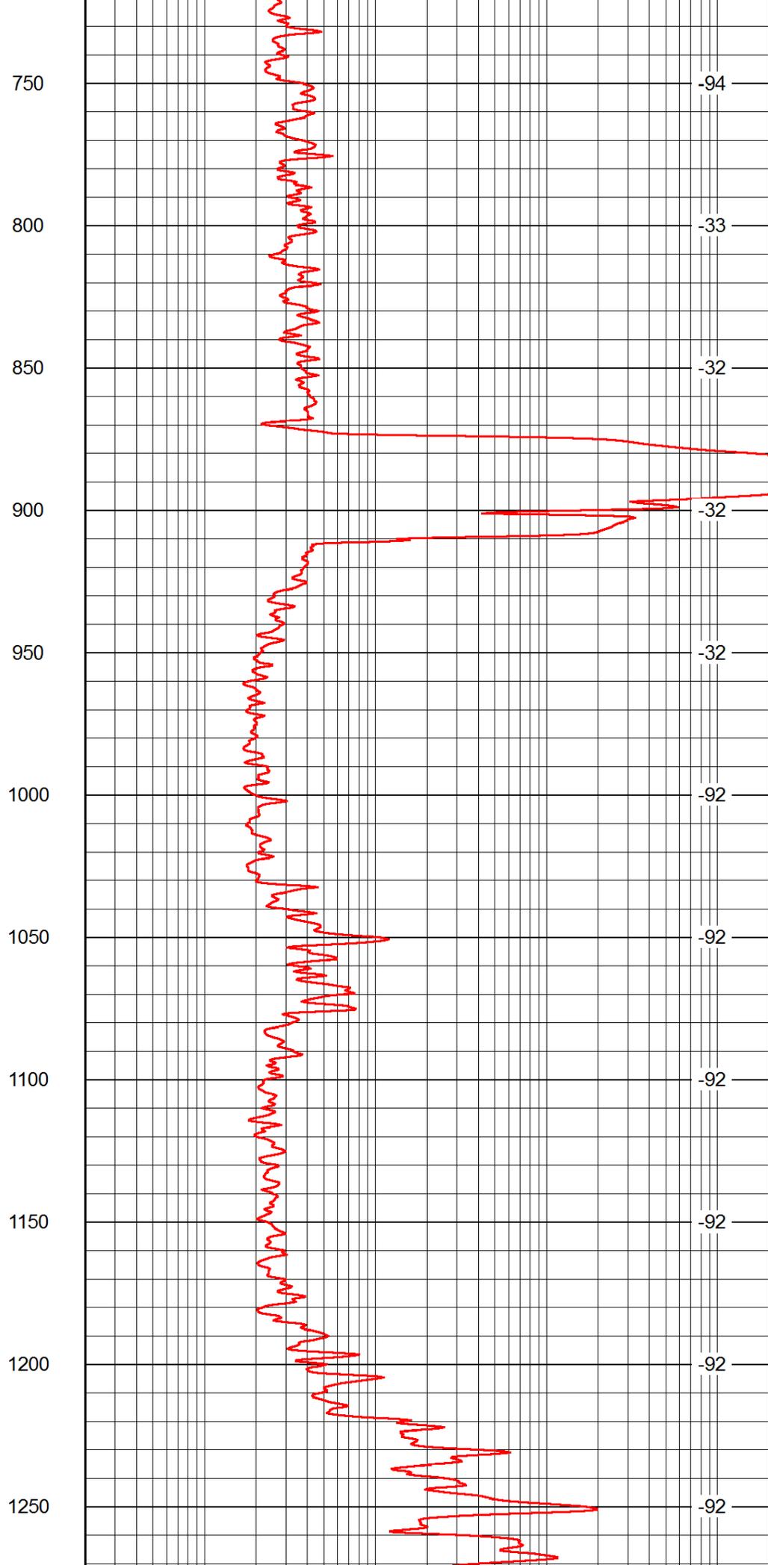
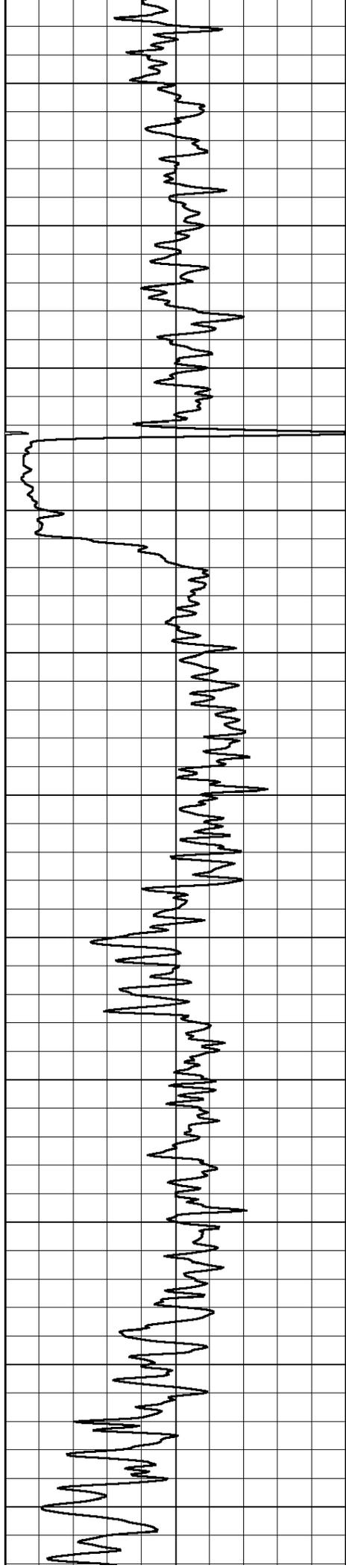
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785 625 3858

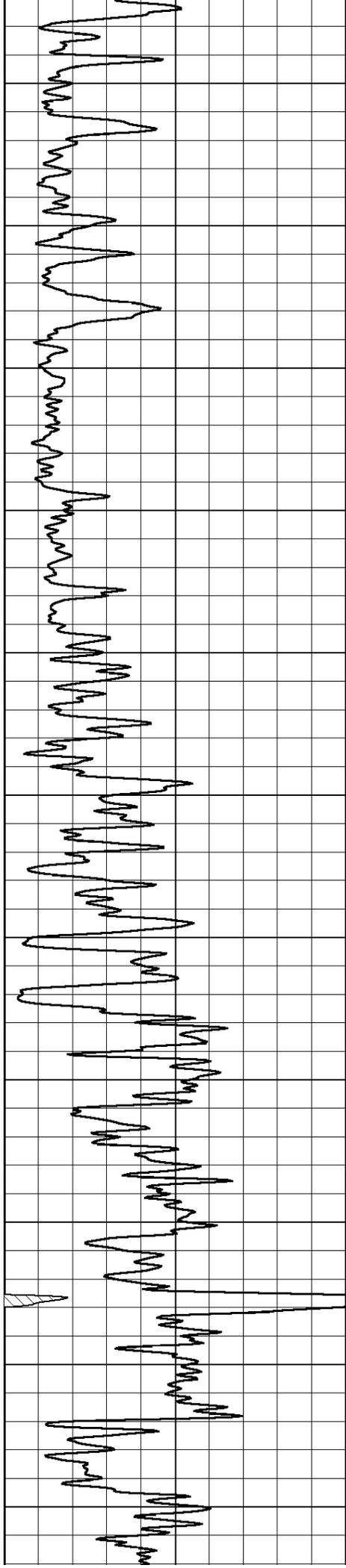
Gorham Ks., 1 East, 6 North, 1 East, 1/2 North, 2 East, South Into.

Database File: c:\warrior\data\brungadt\_stranger\_valley #1\brungardt\_oil\_stranger\_valley\_1hd.db  
Dataset Pathname: Rag/brunrag  
Presentation Format: rag2in  
Dataset Creation: Tue Oct 28 08:12:59 2014  
Charted by: Depth in Feet scaled 1:600

LSPD







1300

1350

1400

1450

1500

1550

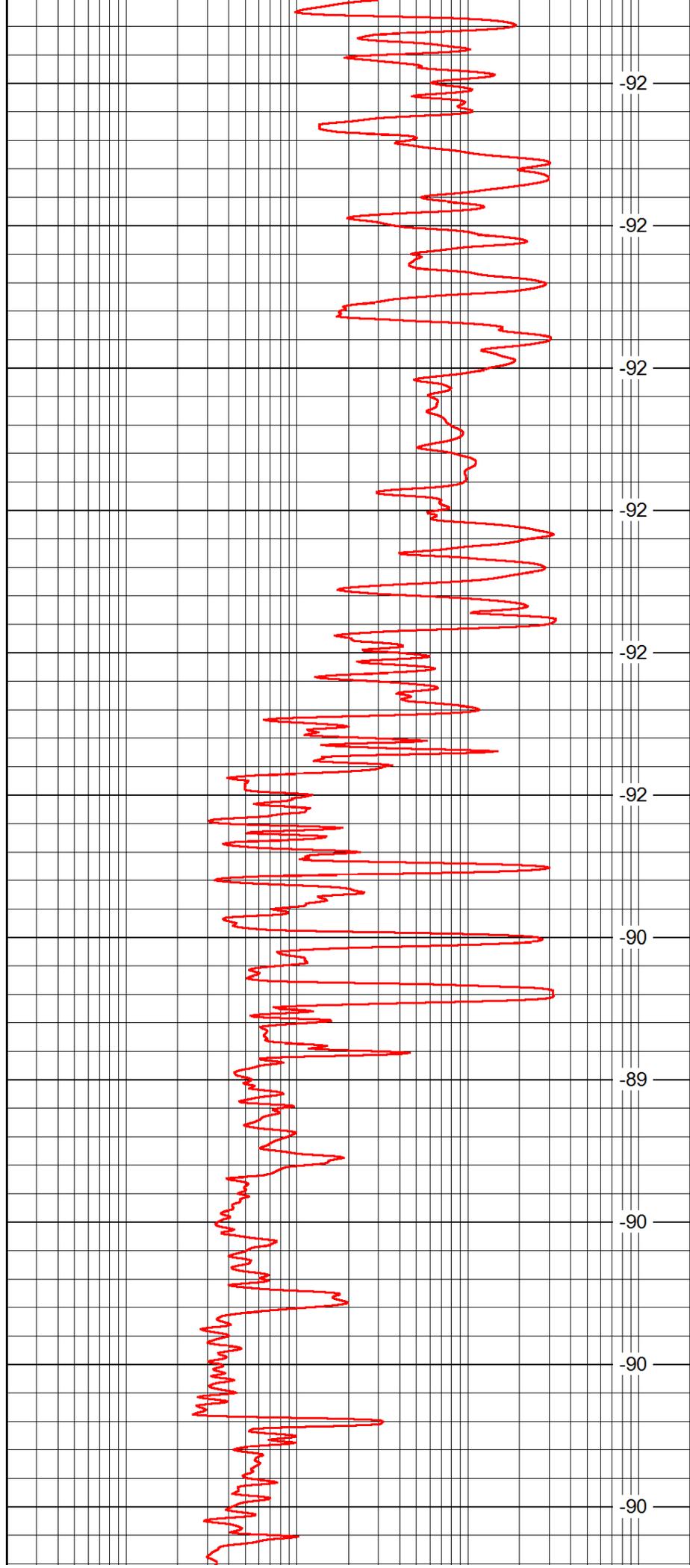
1600

1650

1700

1750

1800



-92

-92

-92

-92

-92

-92

-90

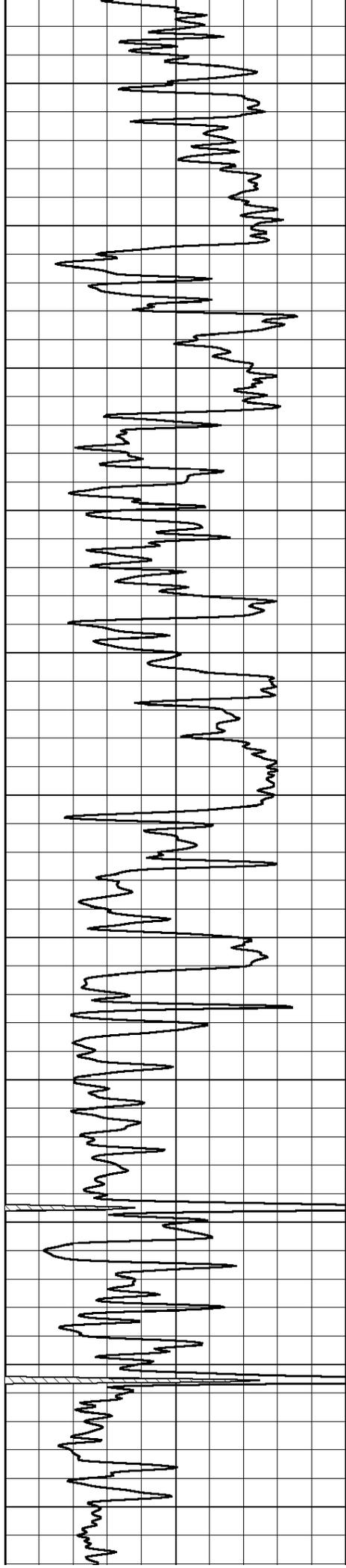
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-90

-90

-90





2400

2450

2500

2550

2600

2650

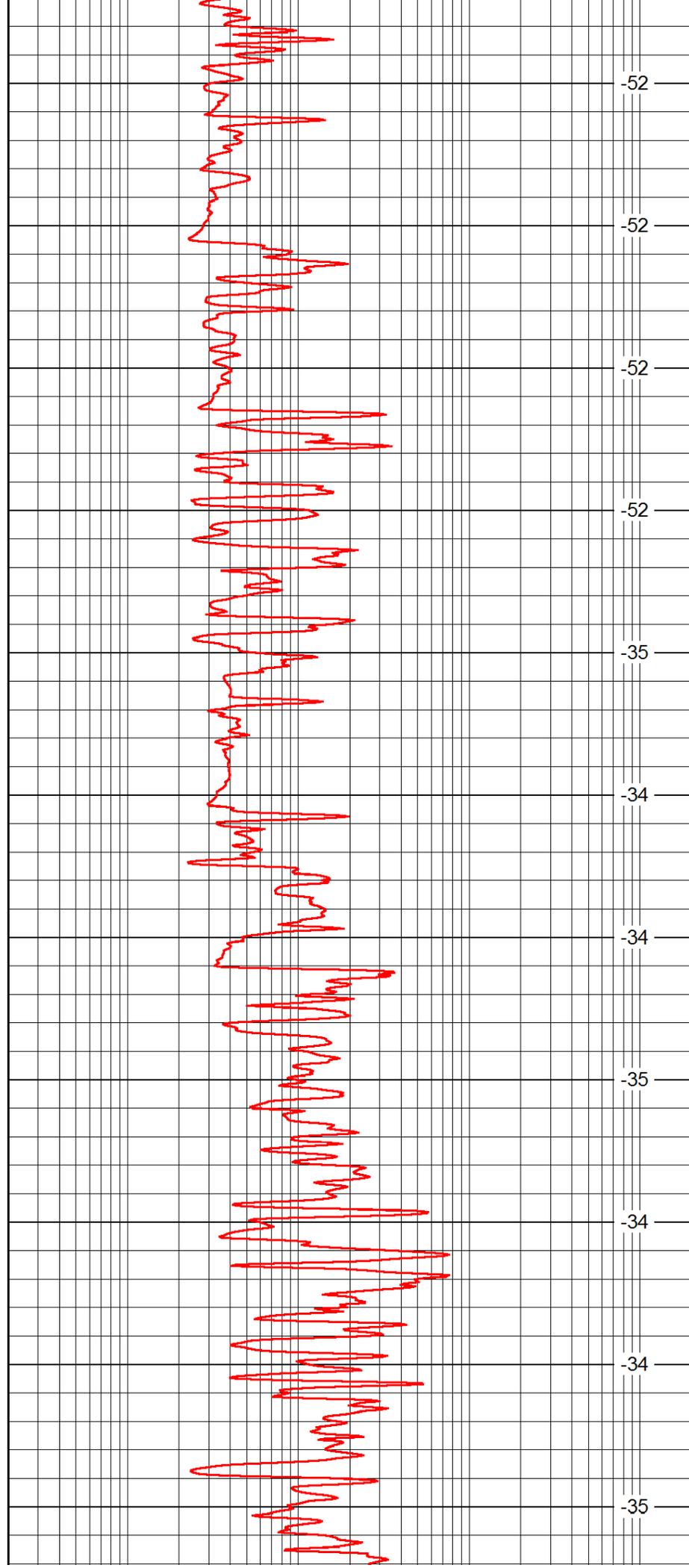
2700

2750

2800

2850

2900



-52

-52

-52

-52

-35

-34

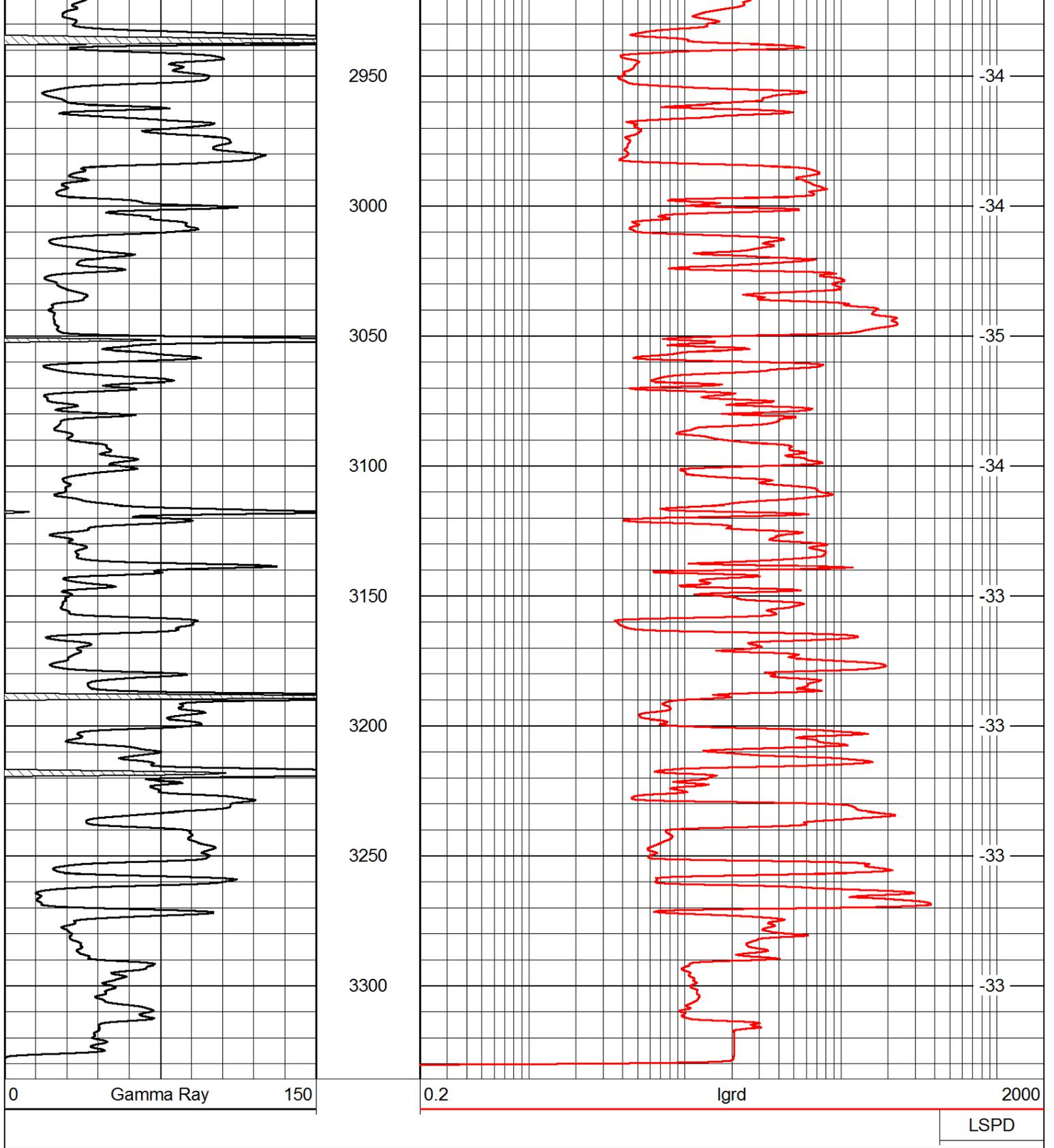
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-35

-34

-34

-35

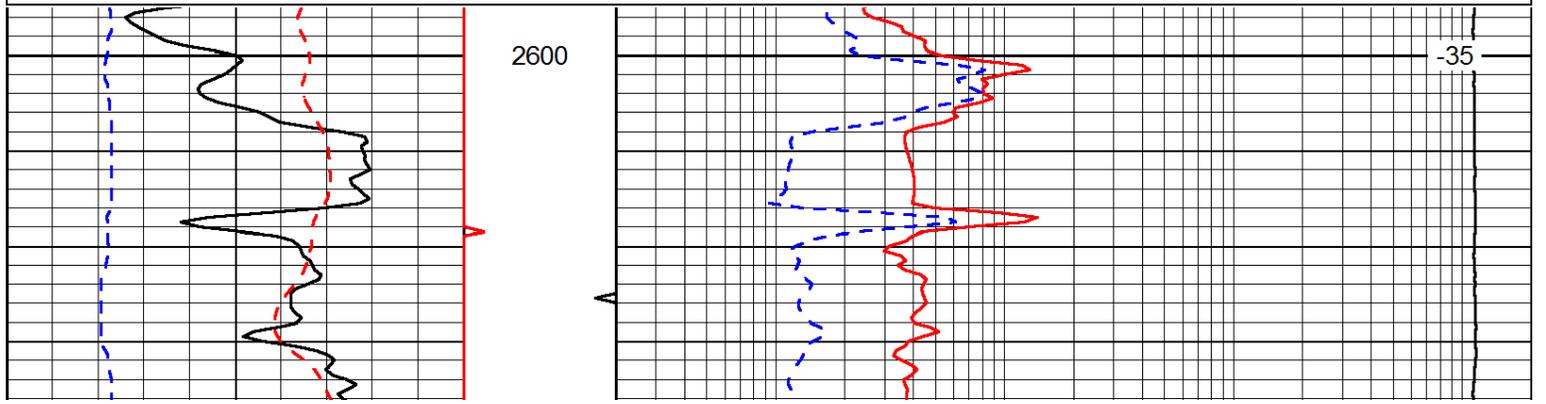
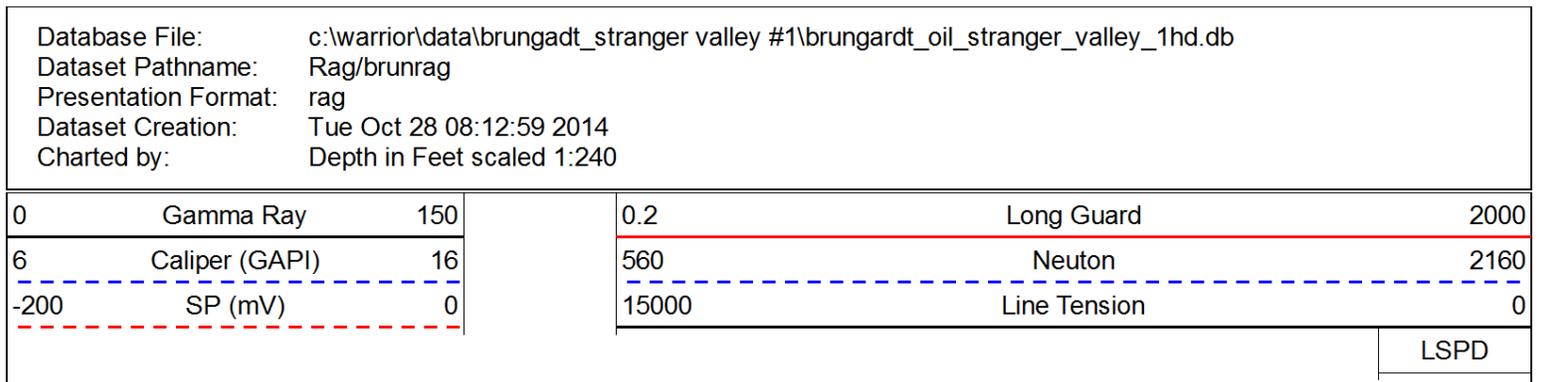
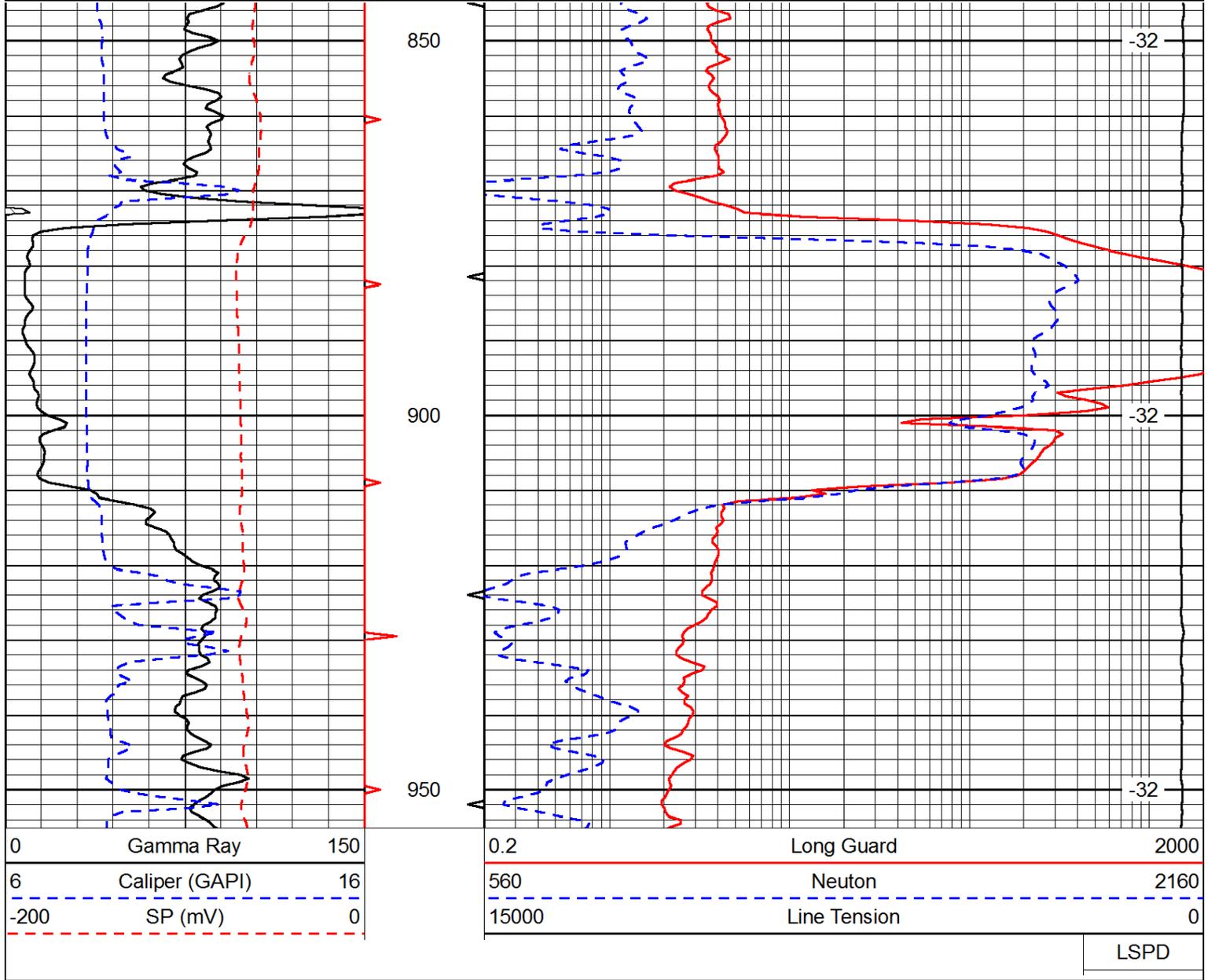


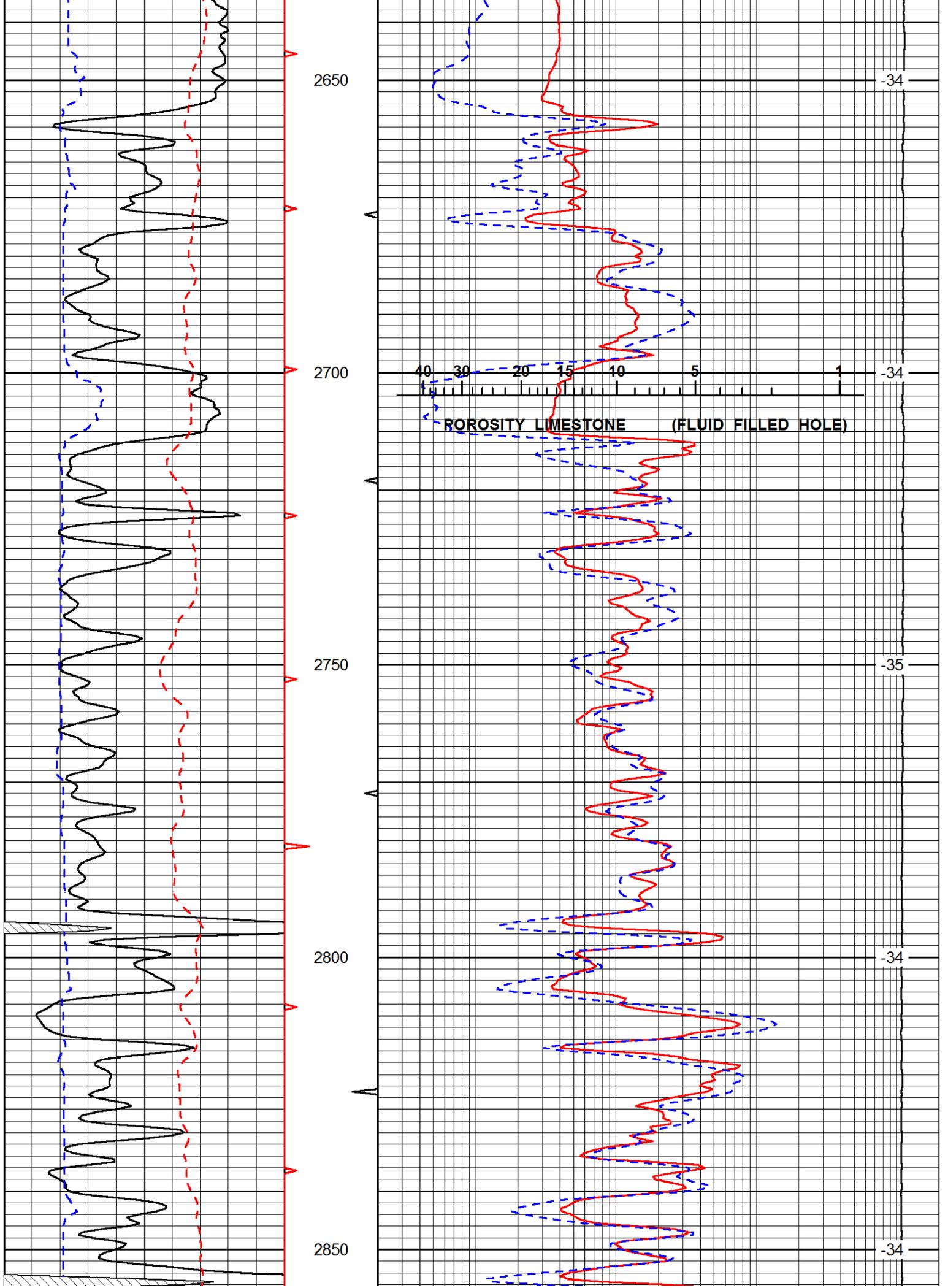
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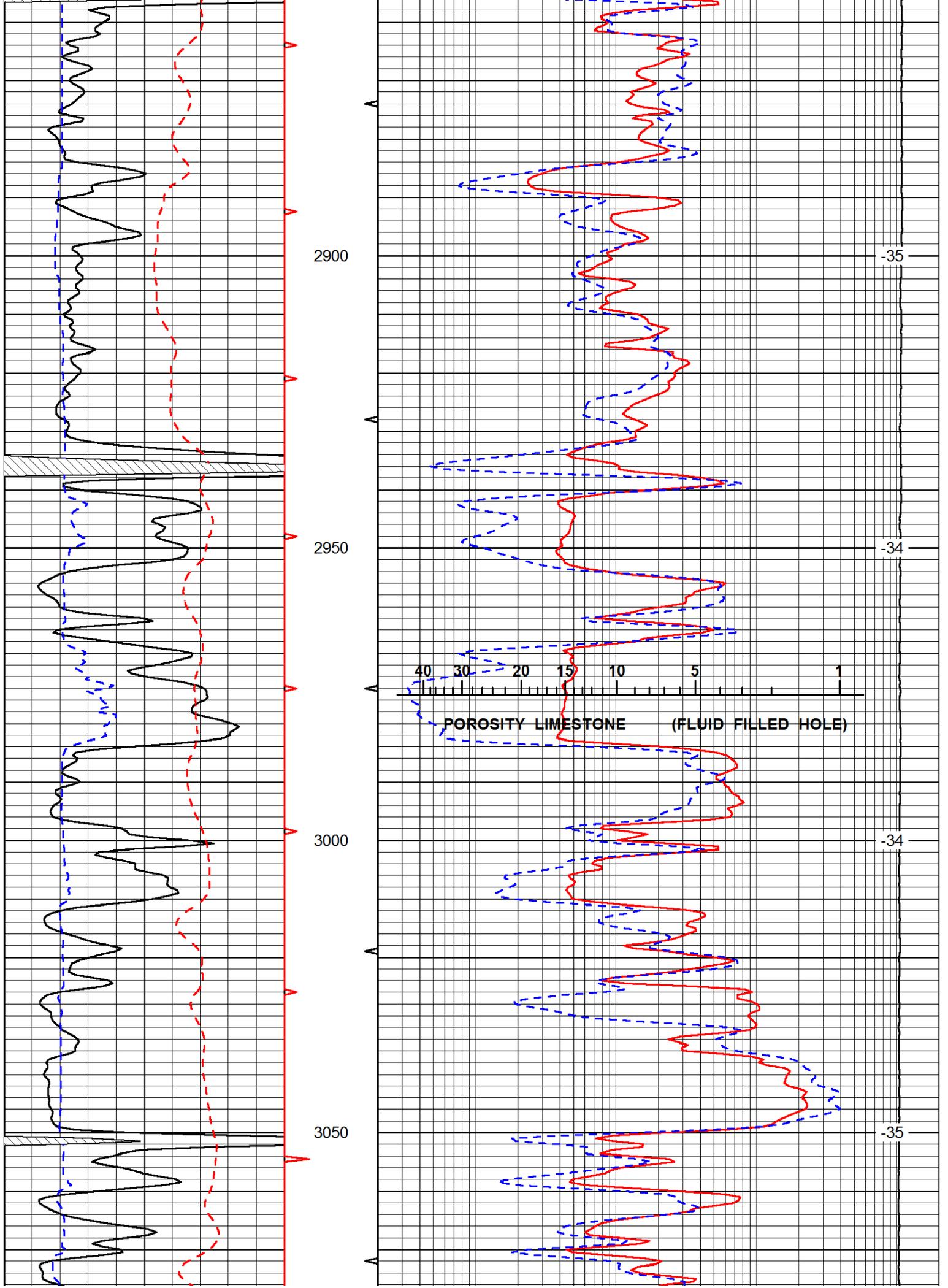
0	Gamma Ray	150
6	Caliper (GAPI)	16
-200	SP (mV)	0

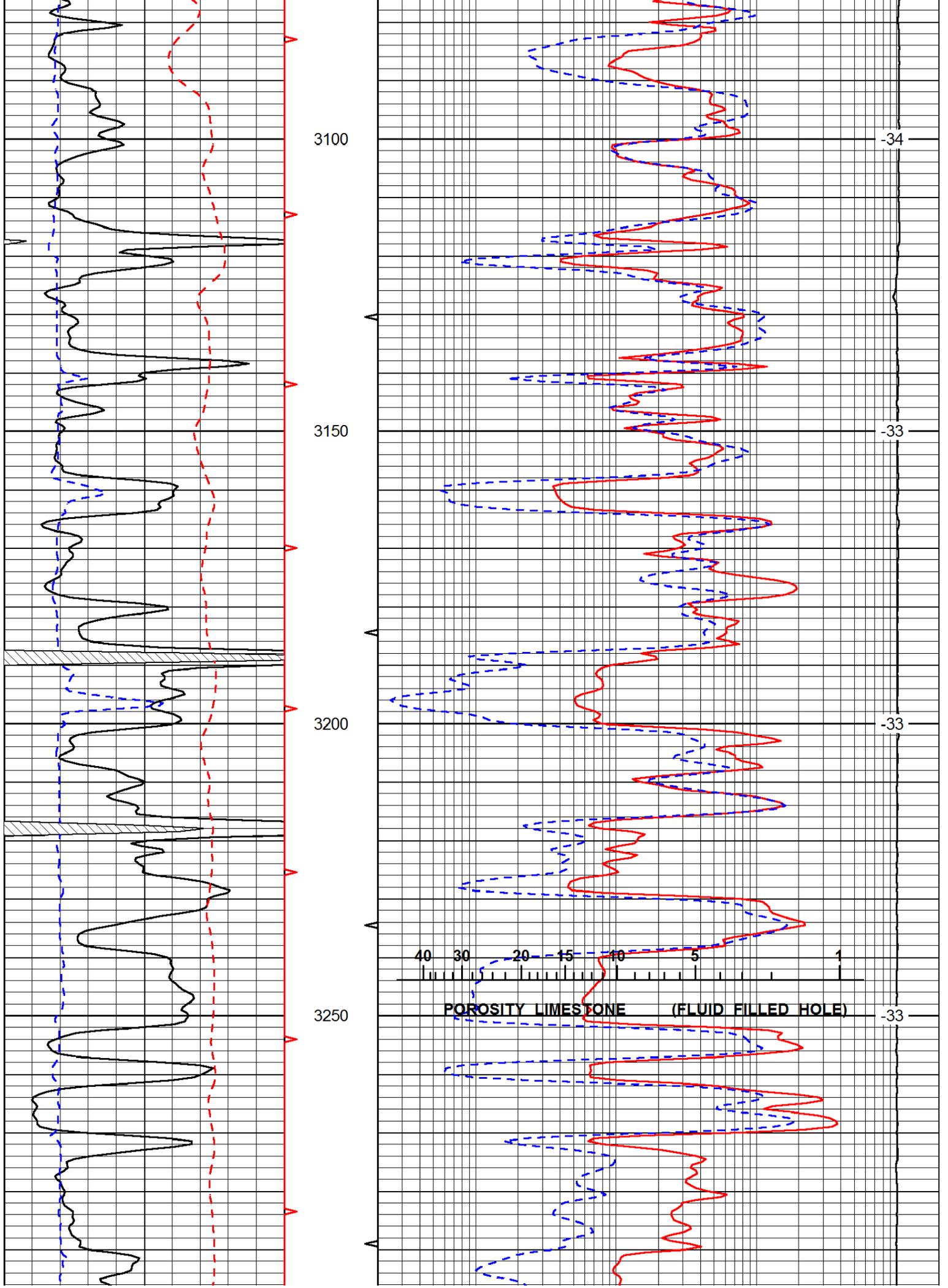
0.2	Long Guard	2000
560	Neuton	2160
15000	Line Tension	0

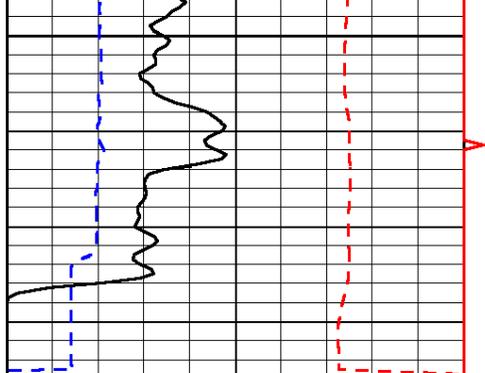
LSPD





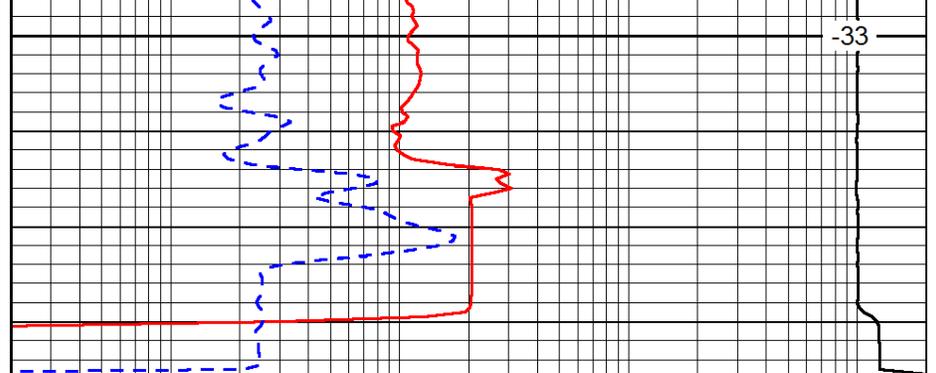






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-200	SP (mV)	0

3300



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560	Neutron	2160
15000	Line Tension	0

-33

LSPD