



Temperature Survey

Pioneer Energy Services

API No.

15-165-22027-00-00

Company Quest Energy LLC

Well Legleiter No. 1-8

Field Hampton

County Rush State Kansas

Location

NW SW NE NE
678' FNL & 998' FEL

Other Services

Sec: 8 Twp: 17 S Rge: 19 W

Elevation

Permanent Datum Ground Level Elevation 2078

Log Measured From Kelly Bushing 6 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing K.B. 2084
D.F. 2078
G.L. 2078

Date 07/09/2013

Run Number One

Type Log Temp

Depth Driller 3910

Depth Logger 1450

Bottom Logged Interval 1450

Top Logged Interval 0

Type Fluid In Hole Water

Top Of Cement 80'

Density 10'

Level 10'

Max. Rec. Temp. F 89

Operating Rig Time 1.5 Hrs.

Equipment -- Location 18 Hays

Recorded By D. Hagan

Witnessed By Cole Dinkle

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

4.5 0 TD

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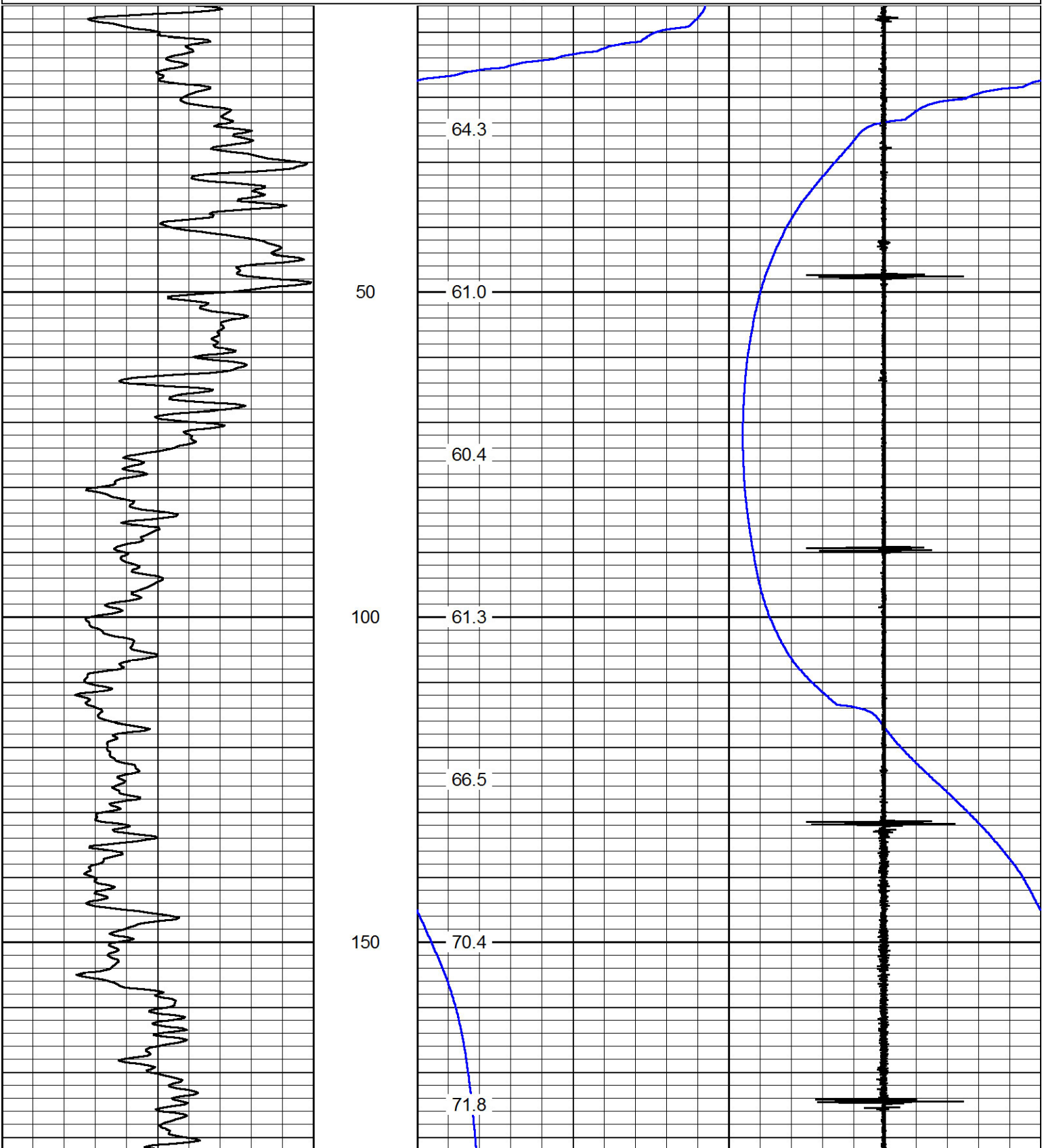
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

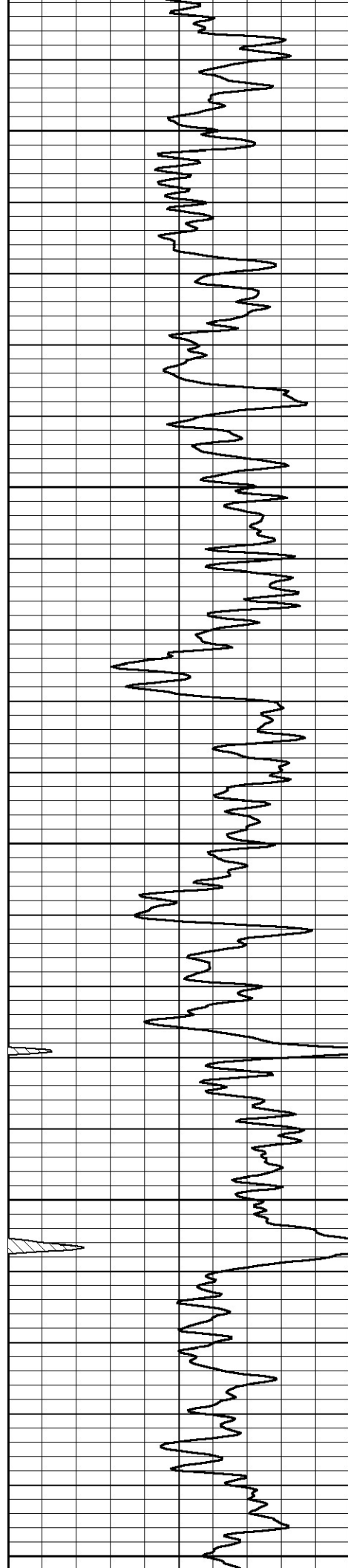
Comments

Thank you for using Pioneer Energy Services
785.625.3858

Liebenthal Ks. 1 South to Ave E, 6 West to 180th Rd.
3 South to Ave H, 600' South, West into

0	Gamma Ray	150	70	TEMP (degF)		90
			TEMP (degF)	-4	CCL	4
			TEMP (degF)			





200

71.8

70.9

250

70.0

70.7

300

69.0

70.5

350

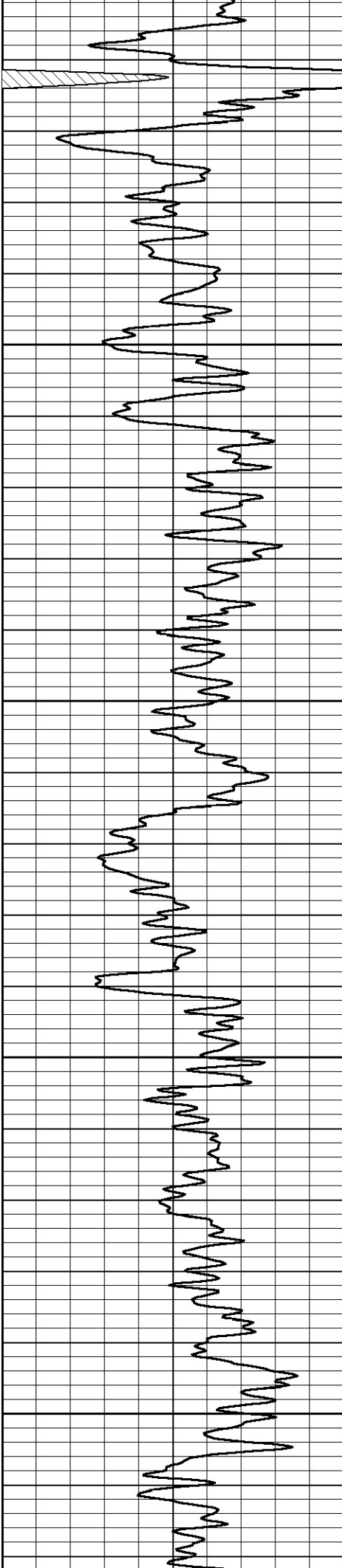
71.2

71.3

400

73.3





450

500

550

600

73.5

73.9

73.9

76.1

78.3

79.0

80.1

81.8

73.5

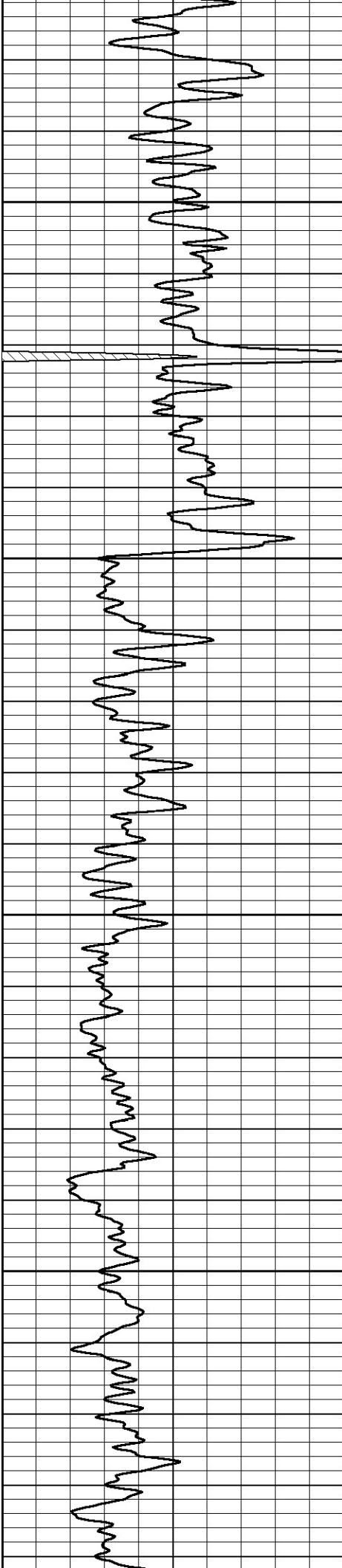
73.9

76.1

79.0

80.1

81.8



650

700

750

800

85.4

88.3

89.2

89.6

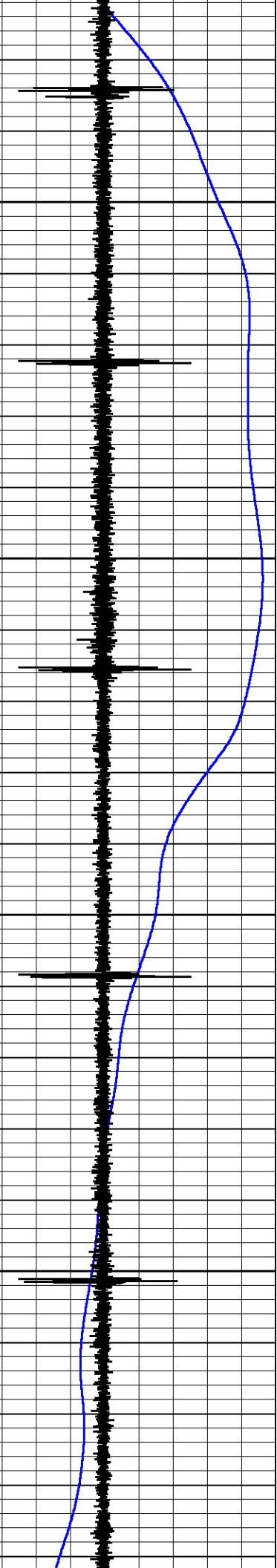
88.7

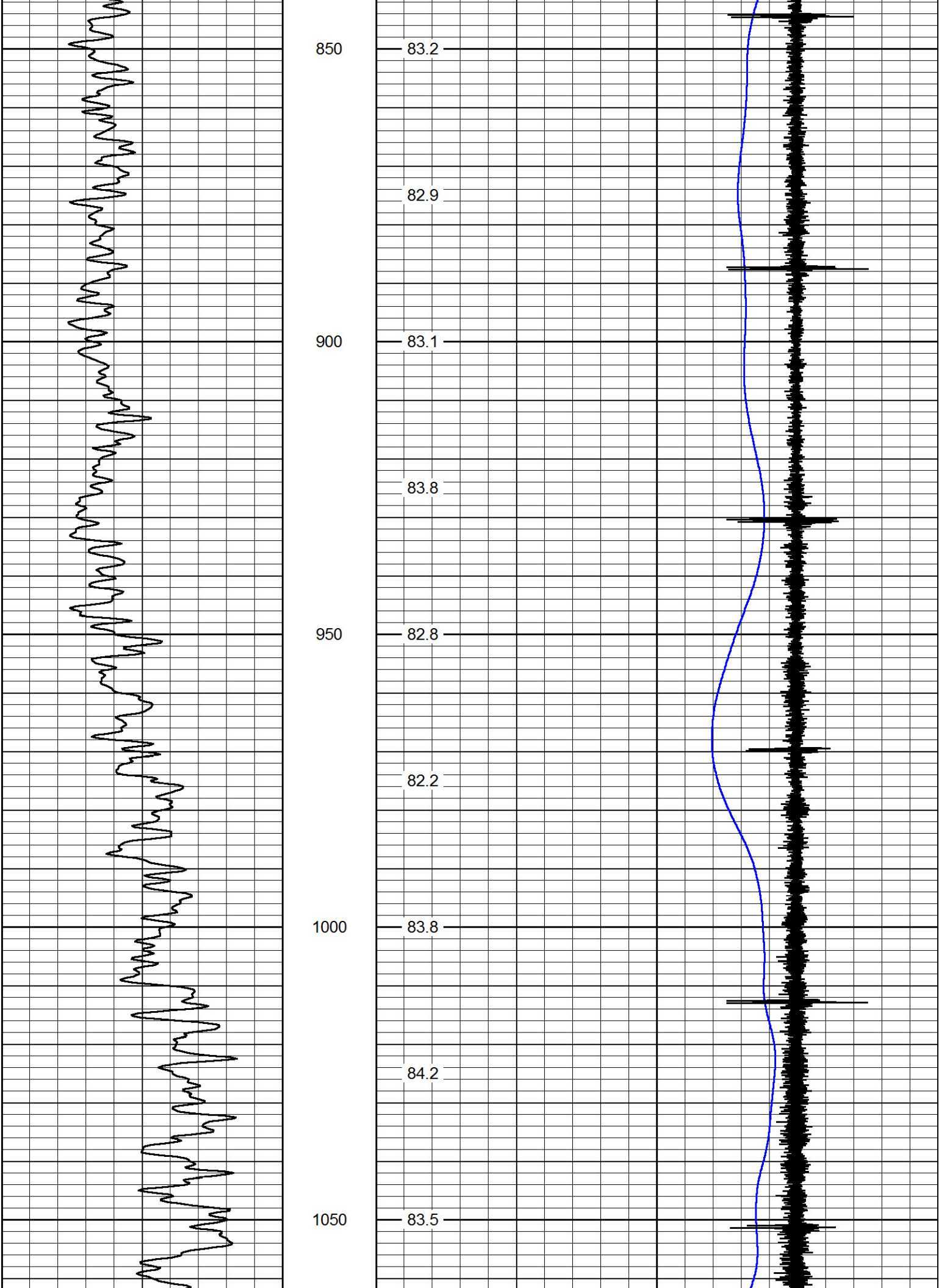
86.5

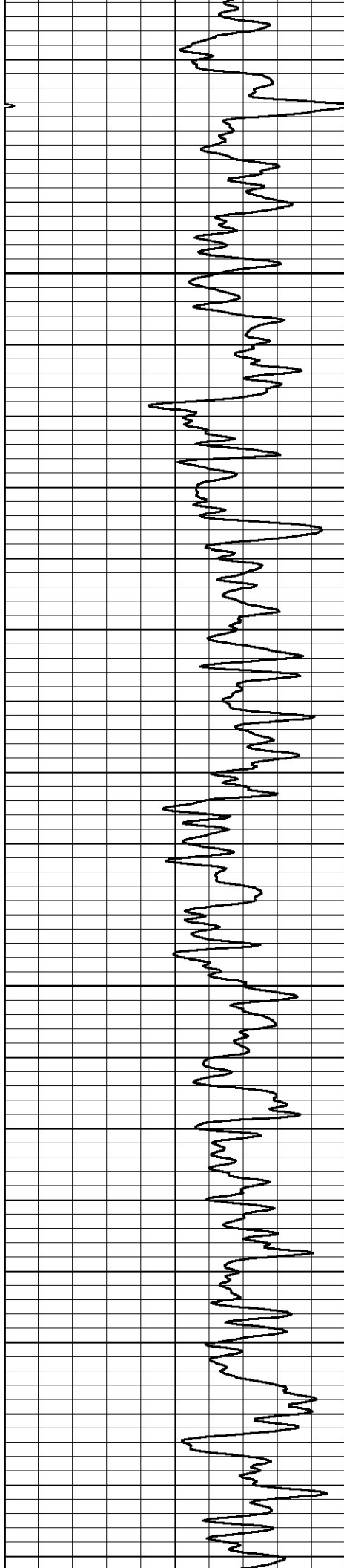
85.3

84.6

84.4







1100

1150

1200

1250

83.2

84.5

83.6

83.9

84.3

83.1

84.5

85.3

87.5

