



PIONEER
Pioneer Energy Services

**RADIATION GUARD
LOG**

Company TRANS PACIFIC OIL CORPORATION
Well MCJUNKIN-BRUNTZ "A" UNIT #1-6
Field SCHABEN
County NESS
State KANSAS

Company TRANS PACIFIC OIL CORPORATION
Well MCJUNKIN-BRUNTZ "A" UNIT #1-6
Field SCHABEN
County NESS State KANSAS

Location: API #: 15-135-25928-00-00
1,473' FNL & 2,607' FEL
SEC 6 TWP 20S RGE 21W
Permanent Datum GROUND LEVEL Elevation 2243'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING
Other Services
NONE
Elevation
K.B. 2250'
D.F. N/A
G.L. 2243'

Date	10/14/2016
Run Number	ONE
Depth Driller	4385'
Depth Logger	4383'
Bottom Logged Interval	4382'
Top Log Interval	200'
Casing Driller	8.625" @ 217'
Casing Logger	218'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	4600
Density / Viscosity	9.2 52
pH / Fluid Loss	9.5 10.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.20 @ 77
Rmt @ Meas. Temp	.90 @ 77
Rmc @ Meas. Temp	1.62 @ 77
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.77 @ 120
Operating Rig Time	2 1/2 HOURS
Max Rec. Temp. F	120 DEG F.
Equipment Number	108
Location	COLBY
Recorded By	J. LONG
Witnessed By	W. BRYCE BIDLEMAN

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

BAZINE, 7 SOUTH, 1/2 EAST, SOUTH INTO

Log Measured From: KELLY BUSHING 7 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. LONG	Primary Witness: W. BRYCE BIDLEMAN
Operator: C. PFEIFER	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\transpacicoil_mcjunkin-bruntz_a_unit_1-6.db
 Dataset field/well/rag/pass5.1/_vars_

Top - Bottom

AIR_HOLE? No	BOREID in 7.875	BOTTEMP degF 120	CASEOD in 5.5	CASETHCK in 0	MudWgt lb/gal 9.2	NPORSEL Limestone	PERFS 0
SPSHIFT mV -154	SRFTEMP degF 79	TDEPTH ft 4383					

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	14.50		GR-M&W (89-M&W)	3.00	3.50	50.00
LGRD	11.00		LGRD-M&W (49) Simlec Long Guard	3.50	3.50	40.00
SCAL SWN	5.10 4.45		SWN-M&W-SP (139-130)	10.50	4.00	190.00

SP 0.20

Dataset: transpacicoil_mcjunkin-bruntz_a_unit_1-6.db: field/well/rag/pass5
Total length: 17.00 ft
Total weight: 280.00 lb
O.D.: 4.00 in



MAIN PASS

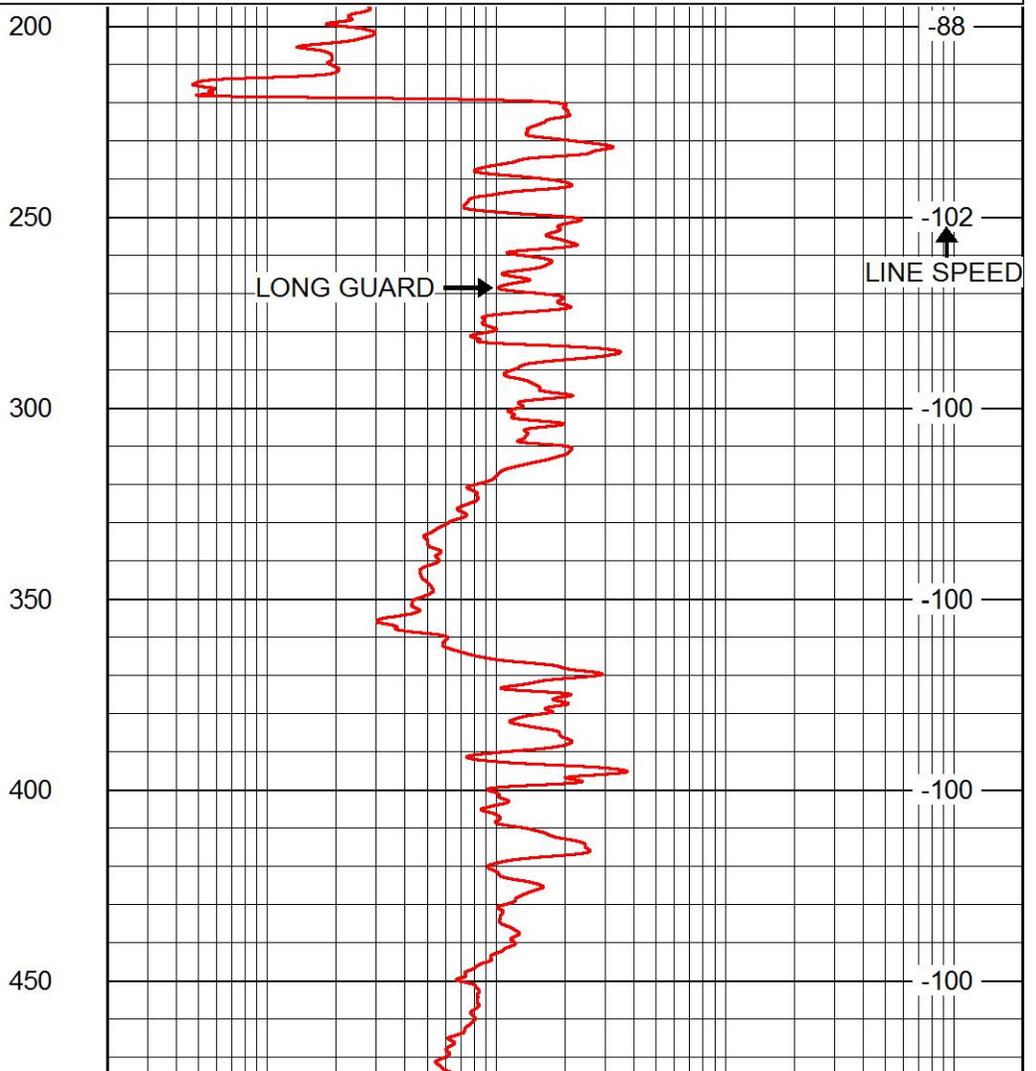
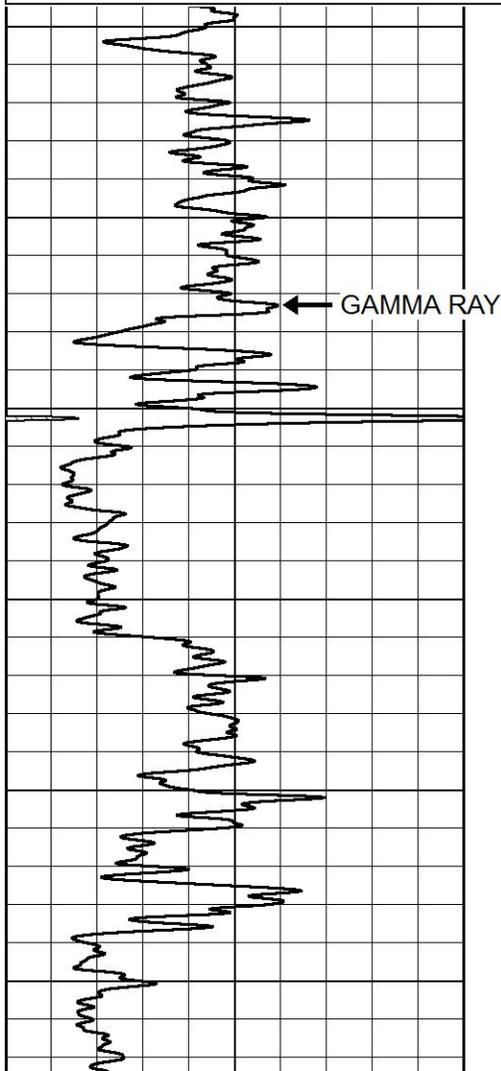
2" SCALE RADIATION GUARD

Database File transpacicoil_mcjunkin-bruntz_a_unit_1-6.db
Dataset Pathname rag/pass5.2
Presentation Format rag2in
Dataset Creation Fri Oct 14 15:42:53 2016
Charted by Depth in Feet scaled 1:600

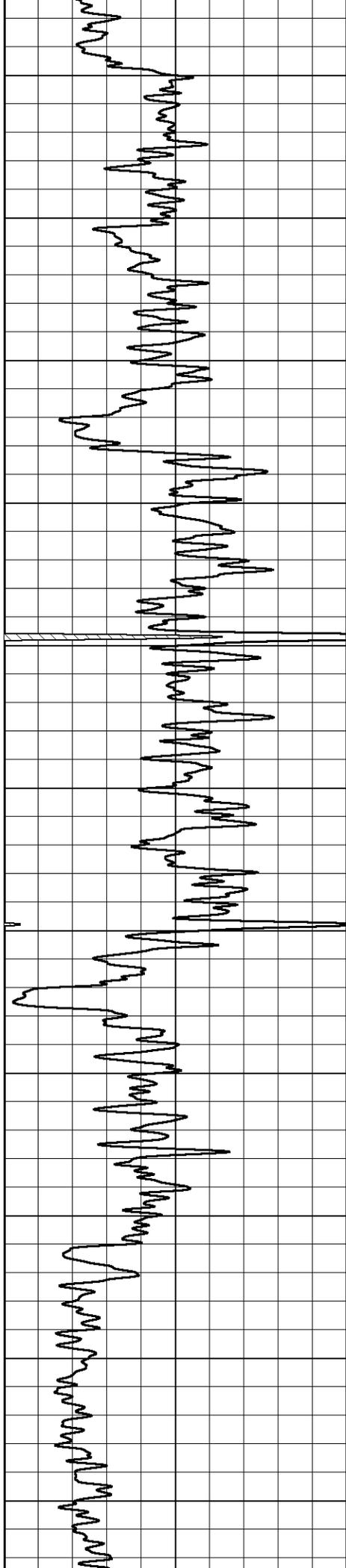
0 GAMMA RAY (GAPI) 150

0.2 LONG GUARD (Ohm-m) 2000

LINE SPEED
(ft/min)



88
102
100
100
100



500

550

600

650

700

750

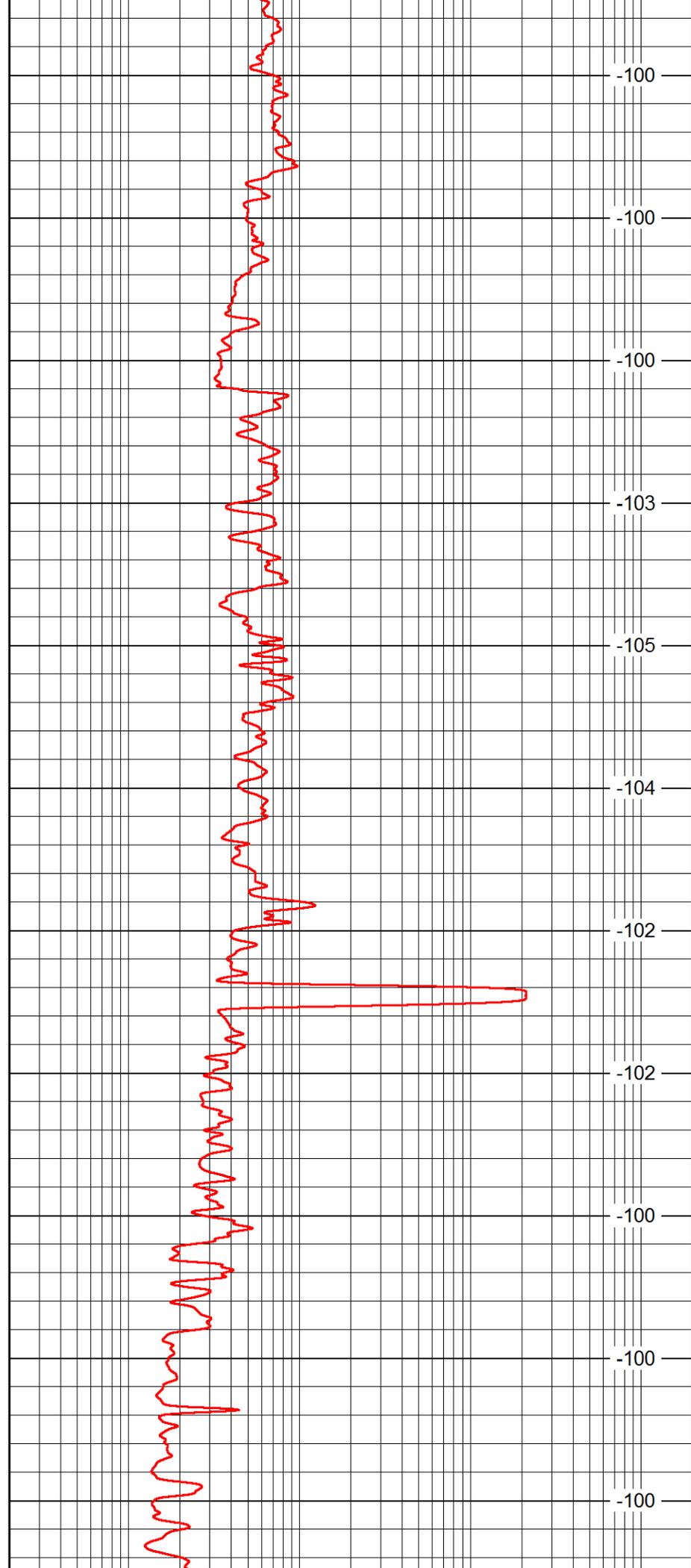
800

850

900

950

1000



-100

-100

-100

-103

-105

-104

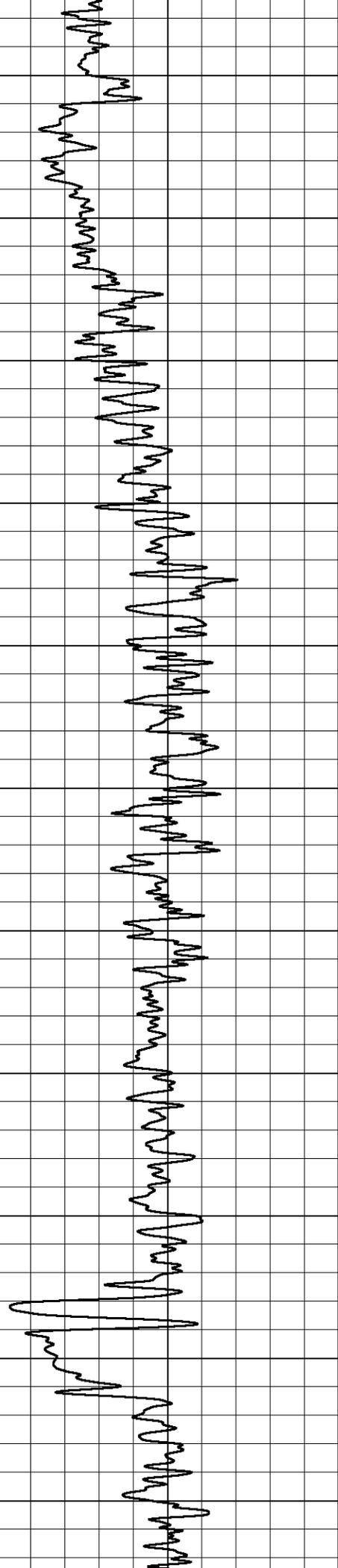
-102

-102

-100

-100

-100



1050

1100

1150

1200

1250

1300

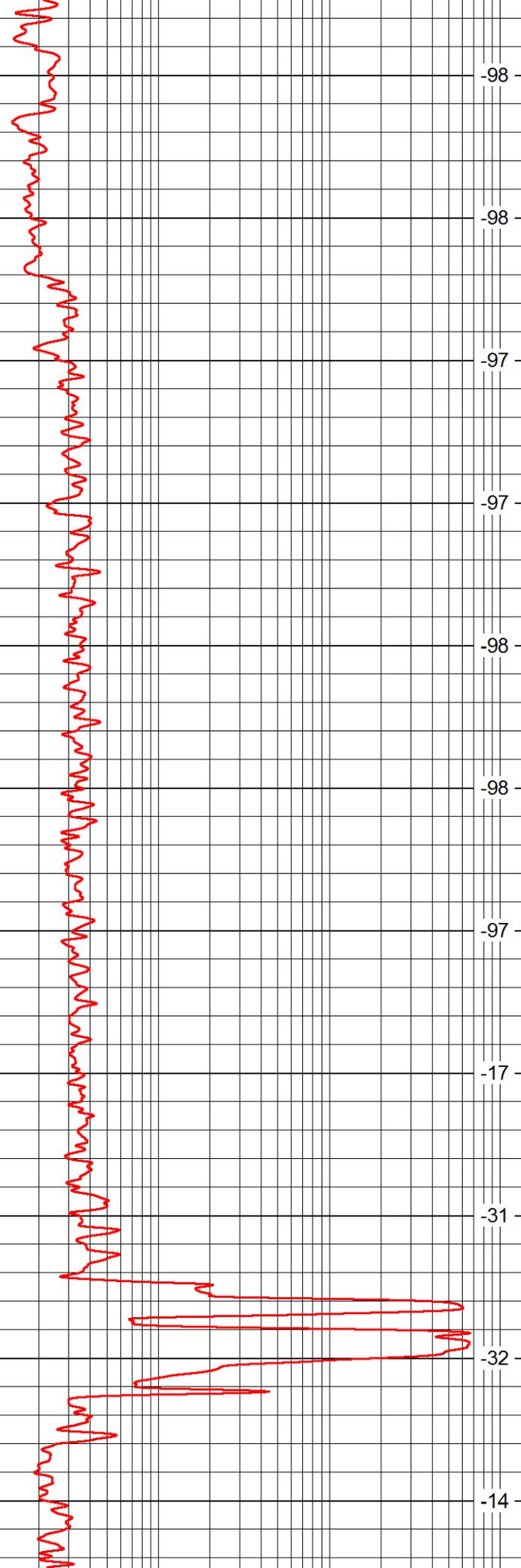
1350

1400

1450

1500

1550



-98

-98

-97

-97

-98

-98

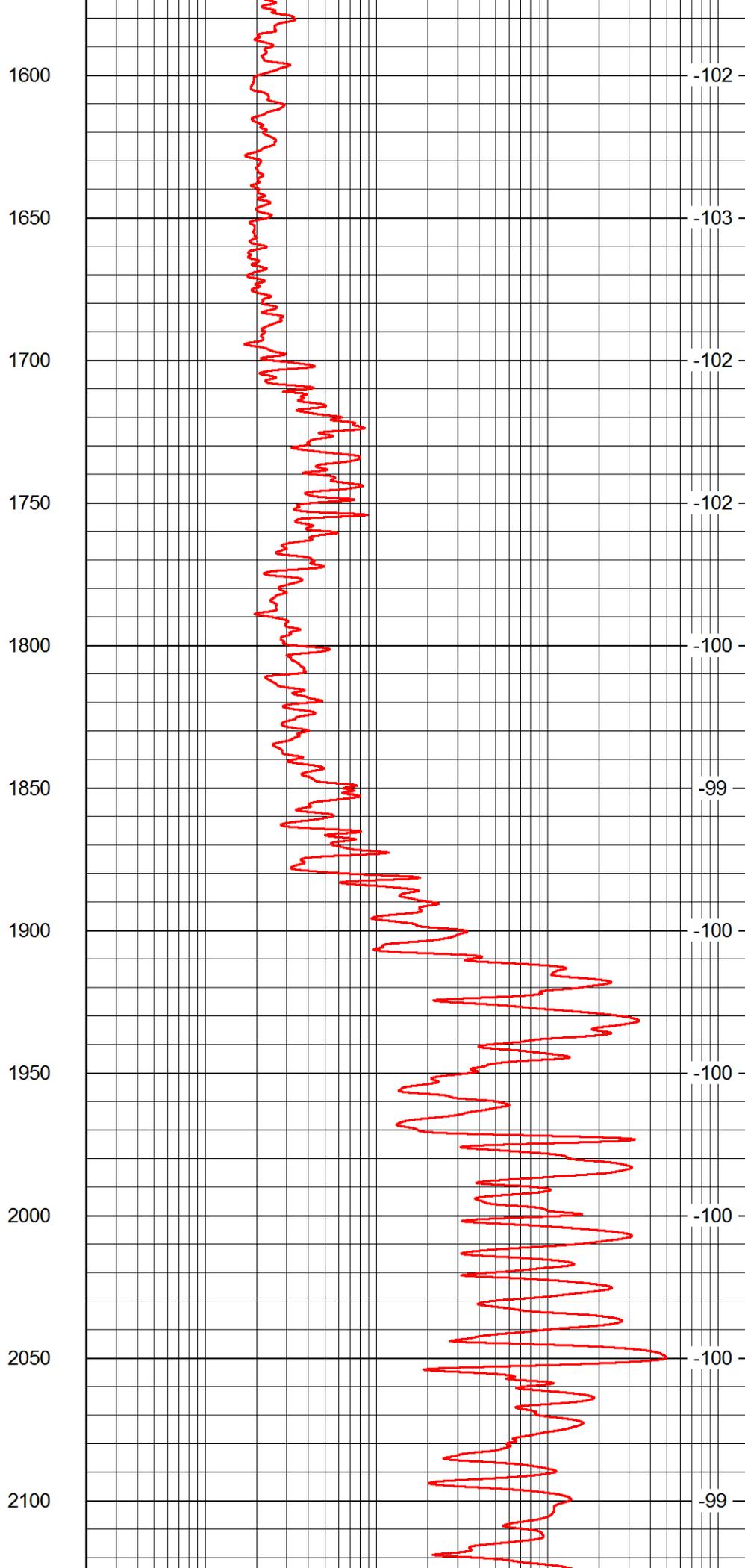
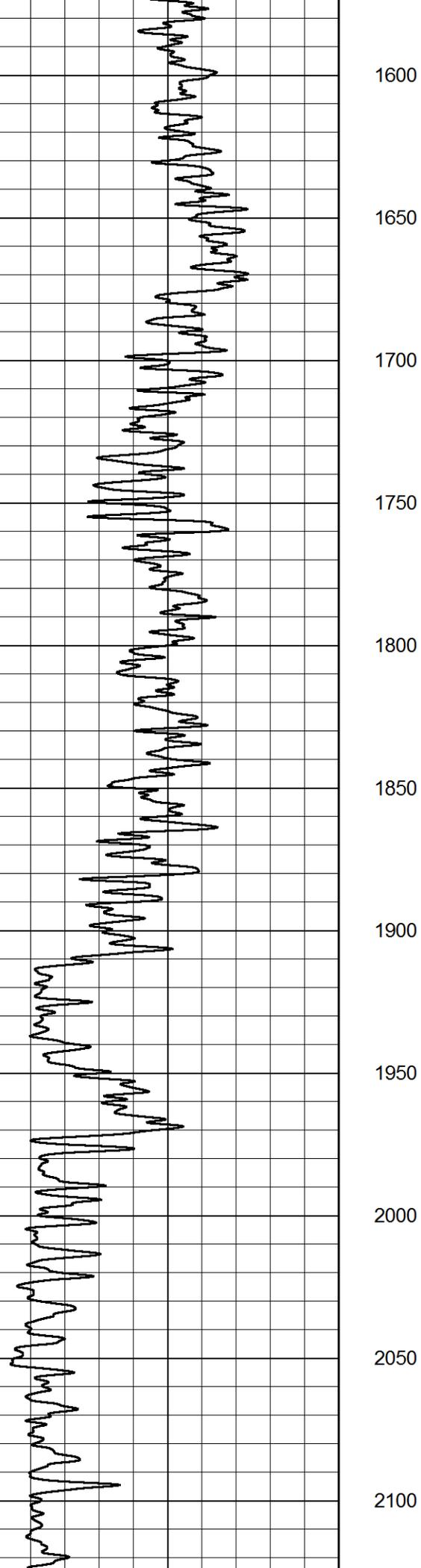
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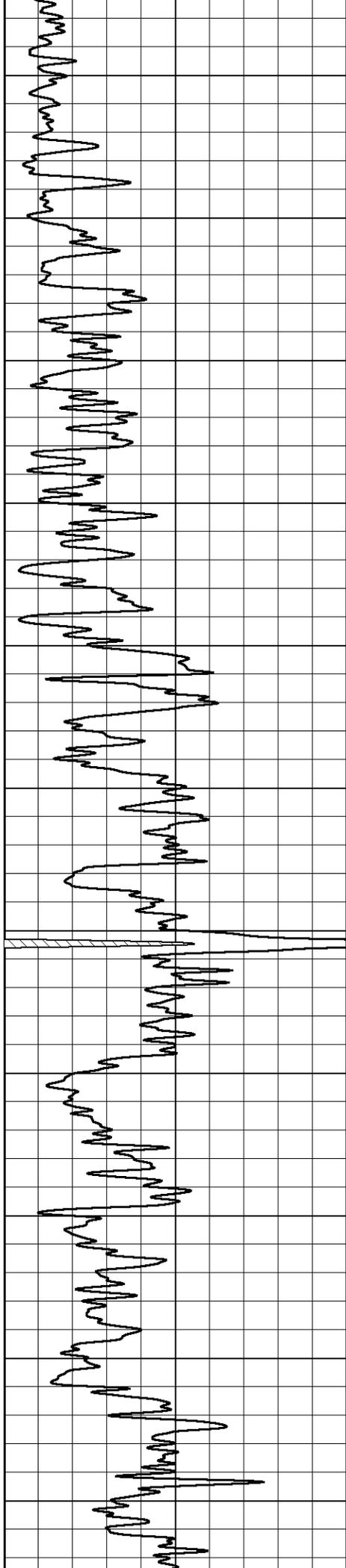
-17

-31

-32

-14





2150

2200

2250

2300

2350

2400

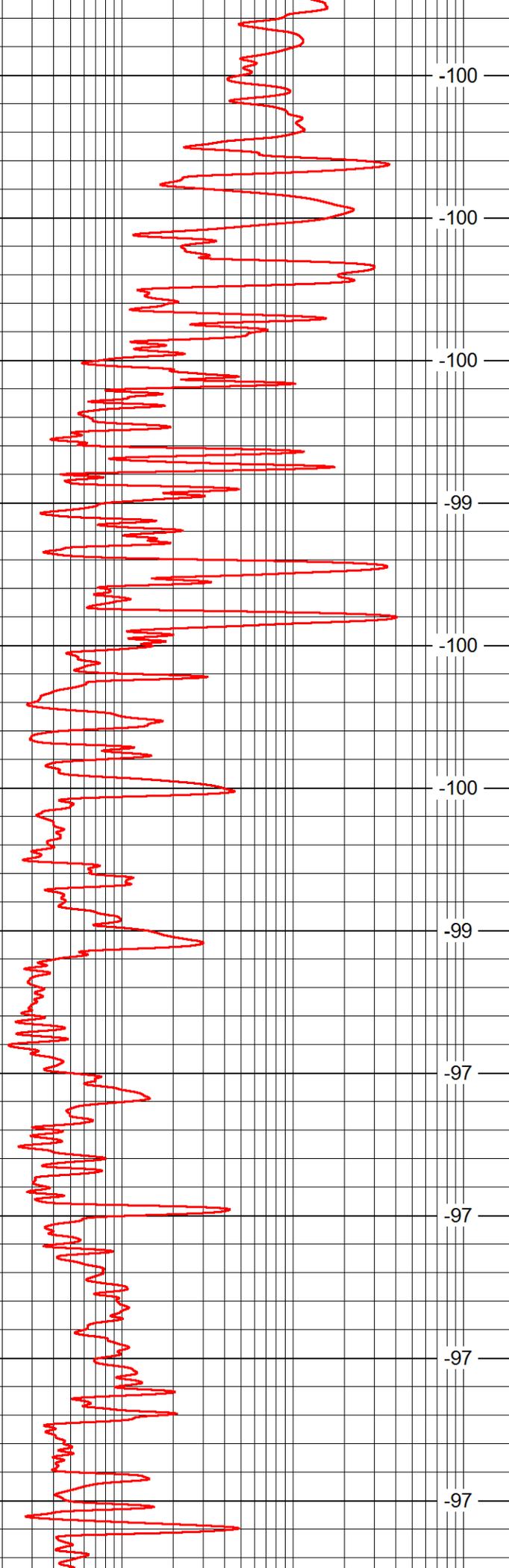
2450

2500

2550

2600

2650



-100

-100

-100

-99

-100

-100

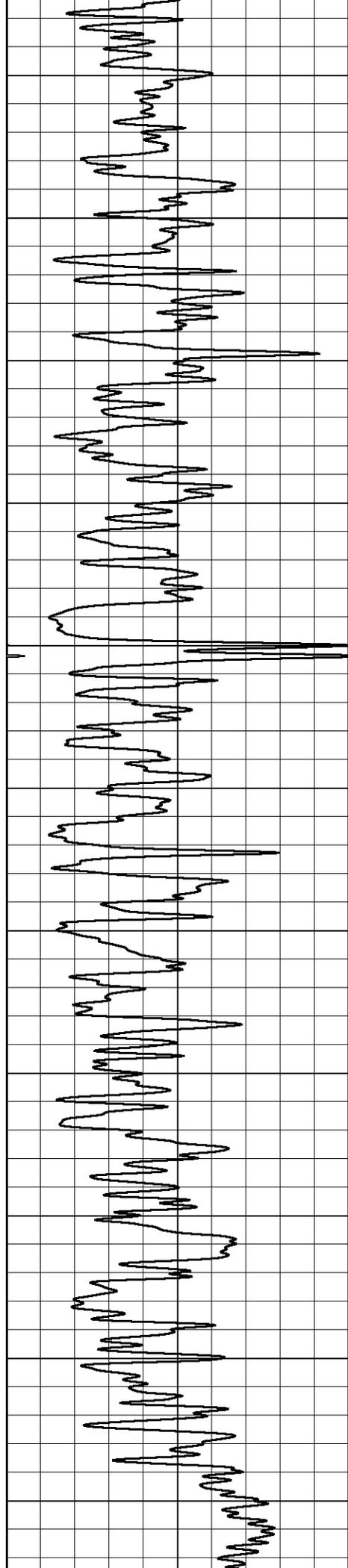
-99

-97

-97

-97

-97



2700

2750

2800

2850

2900

2950

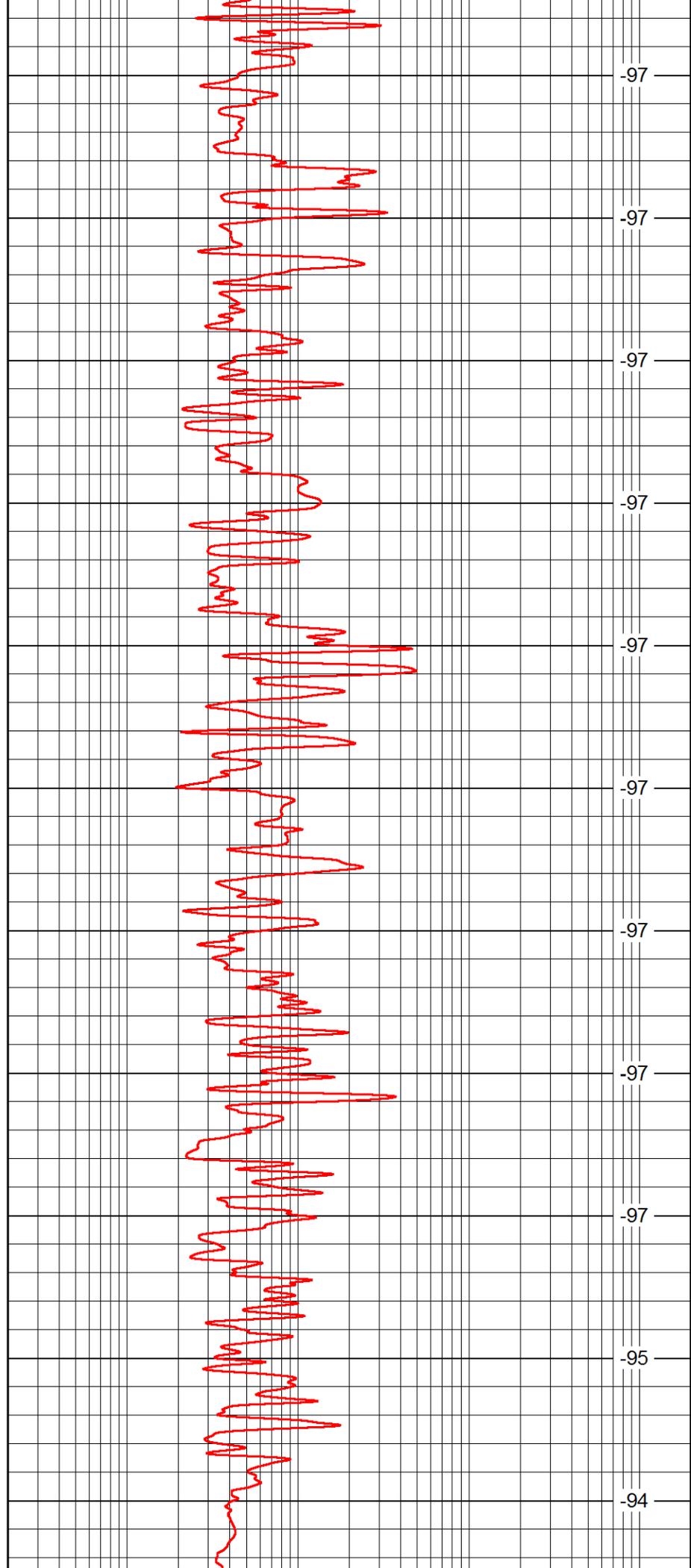
3000

3050

3100

3150

3200



-97

-97

-97

-97

-97

-97

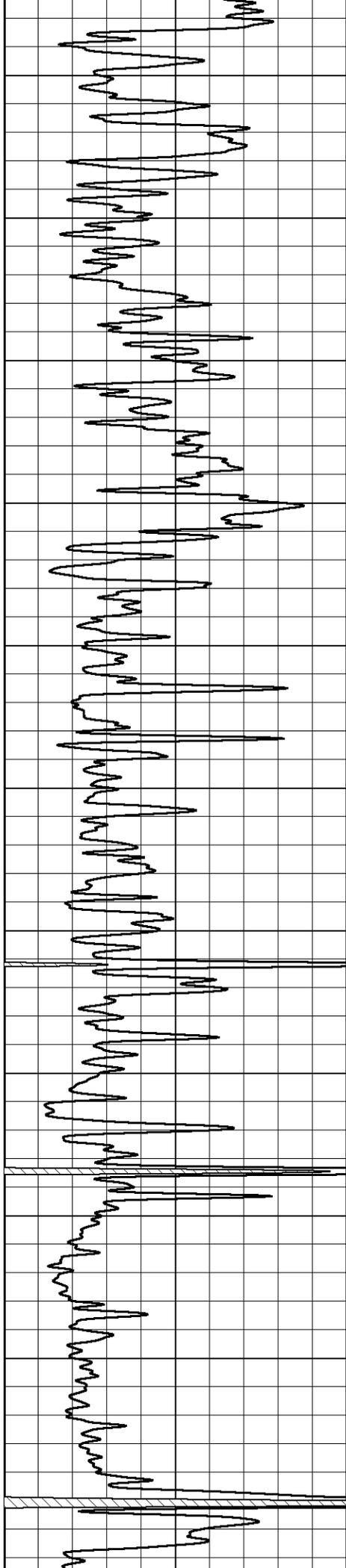
-97

-97

-97

-95

-94



3250

3300

3350

3400

3450

3500

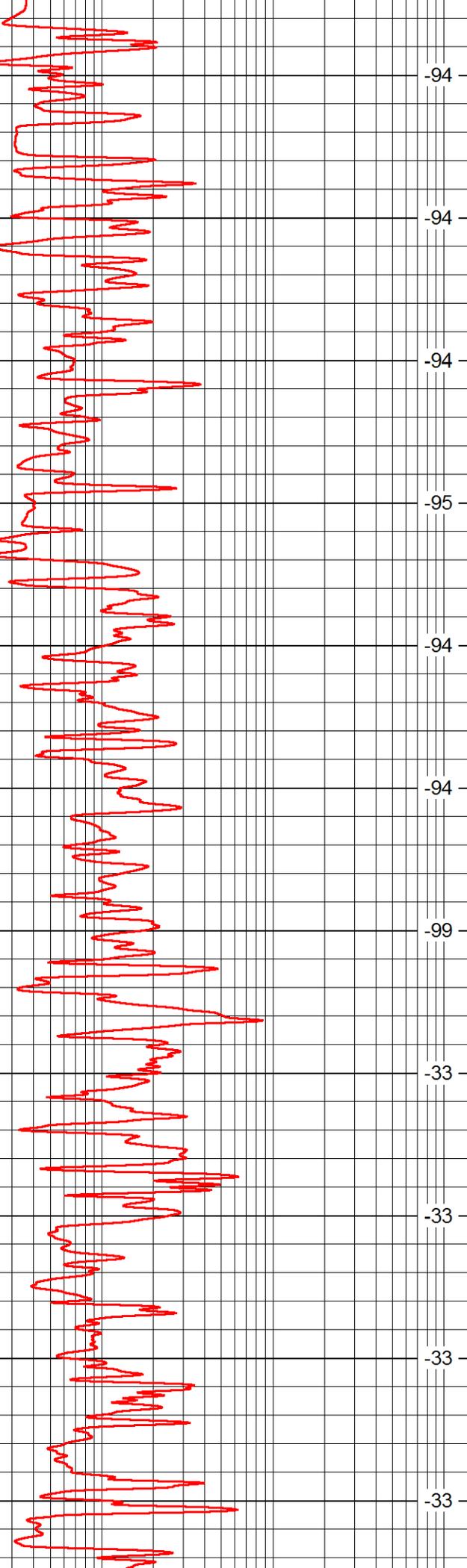
3550

3600

3650

3700

3750



-94

-94

-94

-95

-94

-94

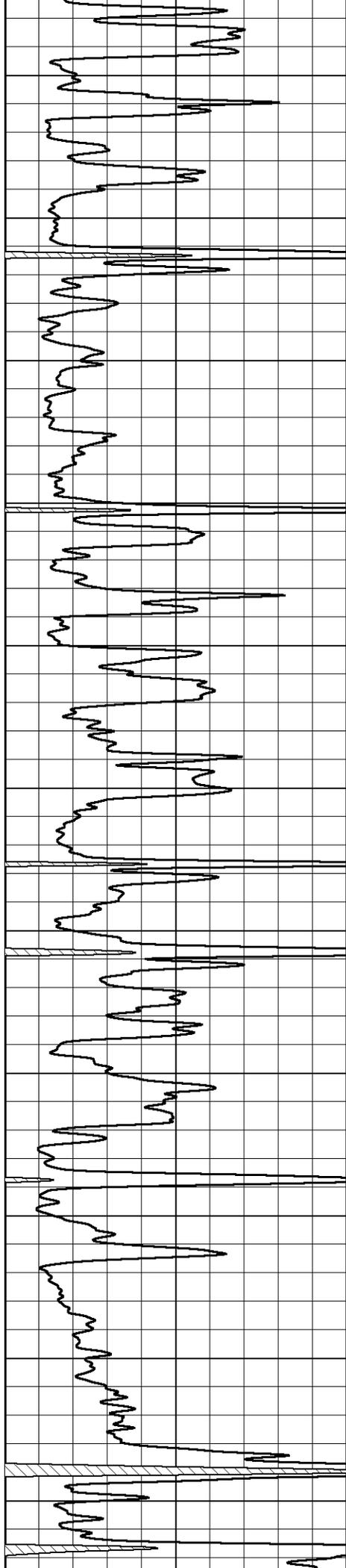
-99

-33

-33

-33

-33



3800

3850

3900

3950

4000

4050

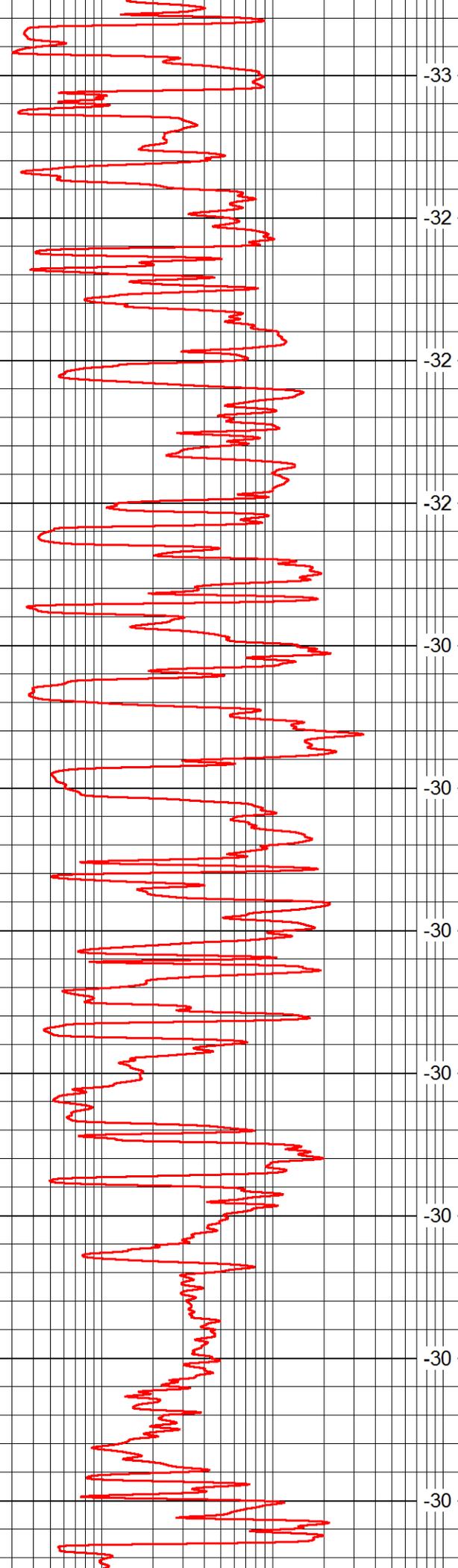
4100

4150

4200

4250

4300



-33

-32

-32

-32

-30

-30

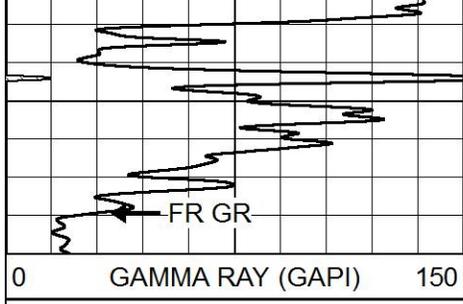
-30

-30

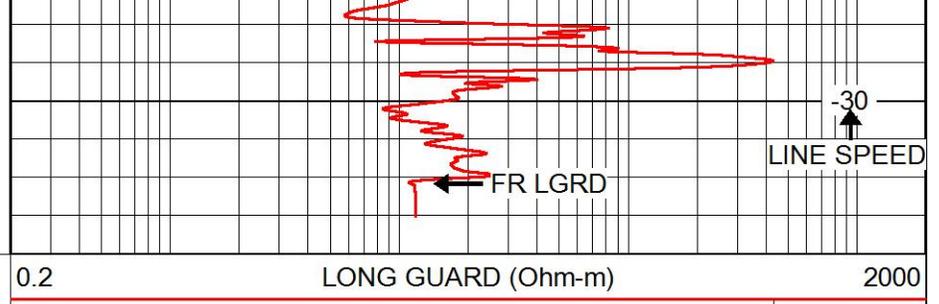
-30

-30

-30



4350



-30
LINE SPEED

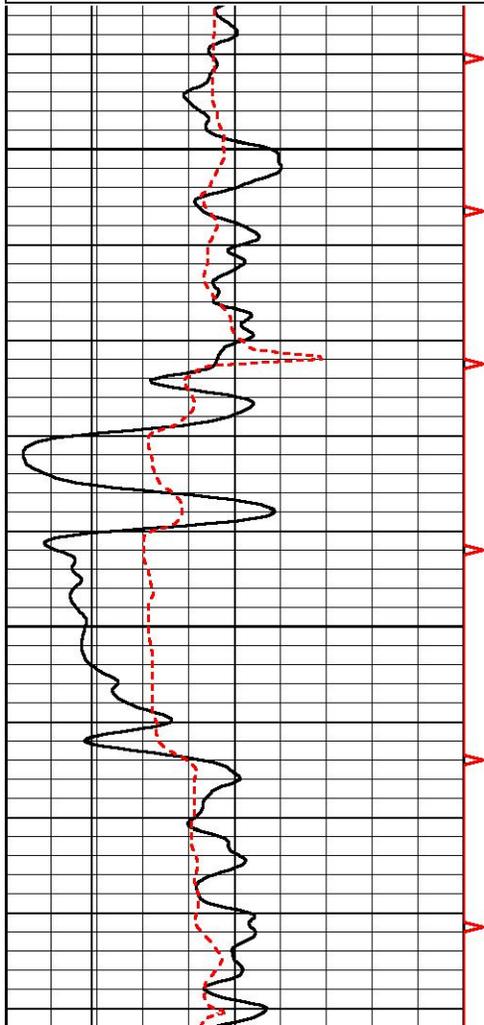
LINE SPEED
(ft/min)



MAIN PASS ANHYDRITE SECTION

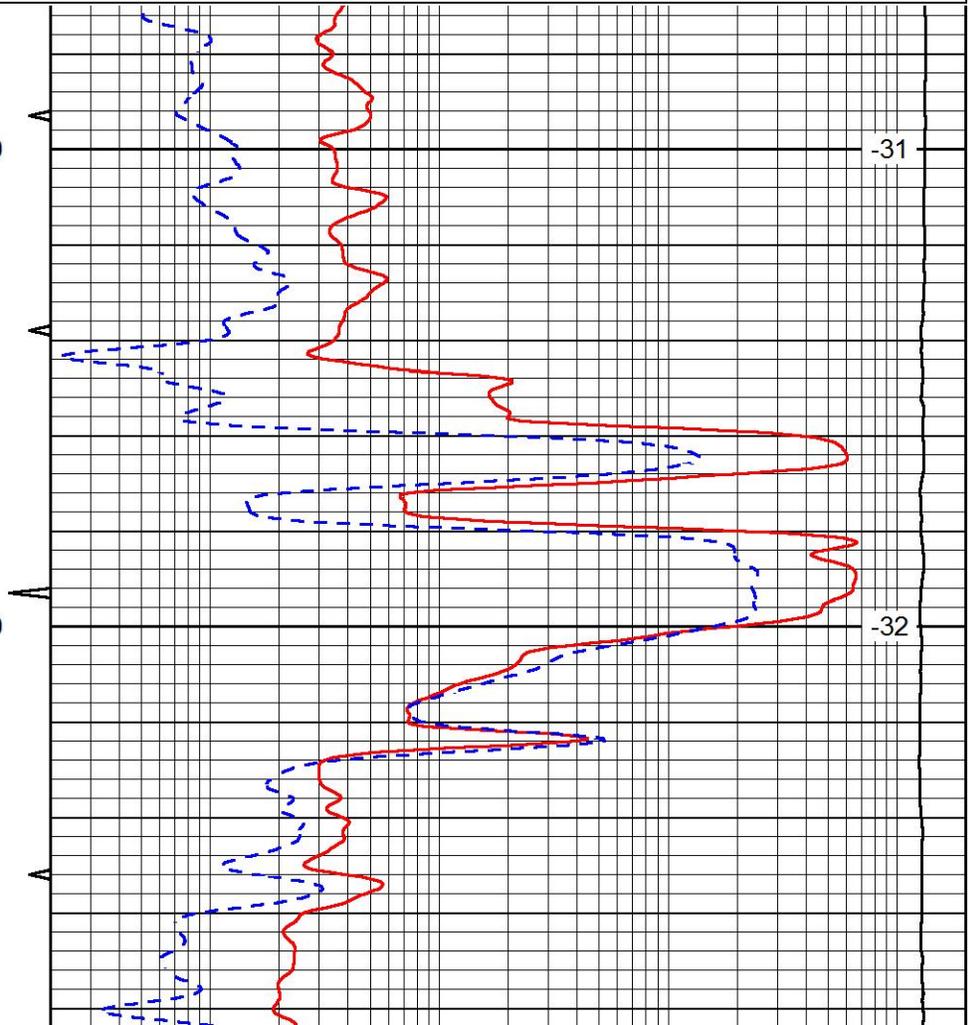
Database File transpacifcoil_mcyjunkin-bruntz_a_unit_1-6.db
 Dataset Pathname rag/pass5.3
 Presentation Format rag
 Dataset Creation Fri Oct 14 15:37:03 2016
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Long Guard (Ohm-m)	2000
6	Caliper (in)	16	560	Sidewall Neutron Porosity (NAPI)	2160
6	Bit Size	16	15000	Line Tension (lb)	0
Line Speed (ft/min)					



1450

1500



-31

-32

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
6	Bit Size	16

0.2	Long Guard (Ohm-m)	2000
560	Sidewall Neutron Porosity (NAPI)	2160
15000	Line Tension (lb)	0

Line Speed
(ft/min)



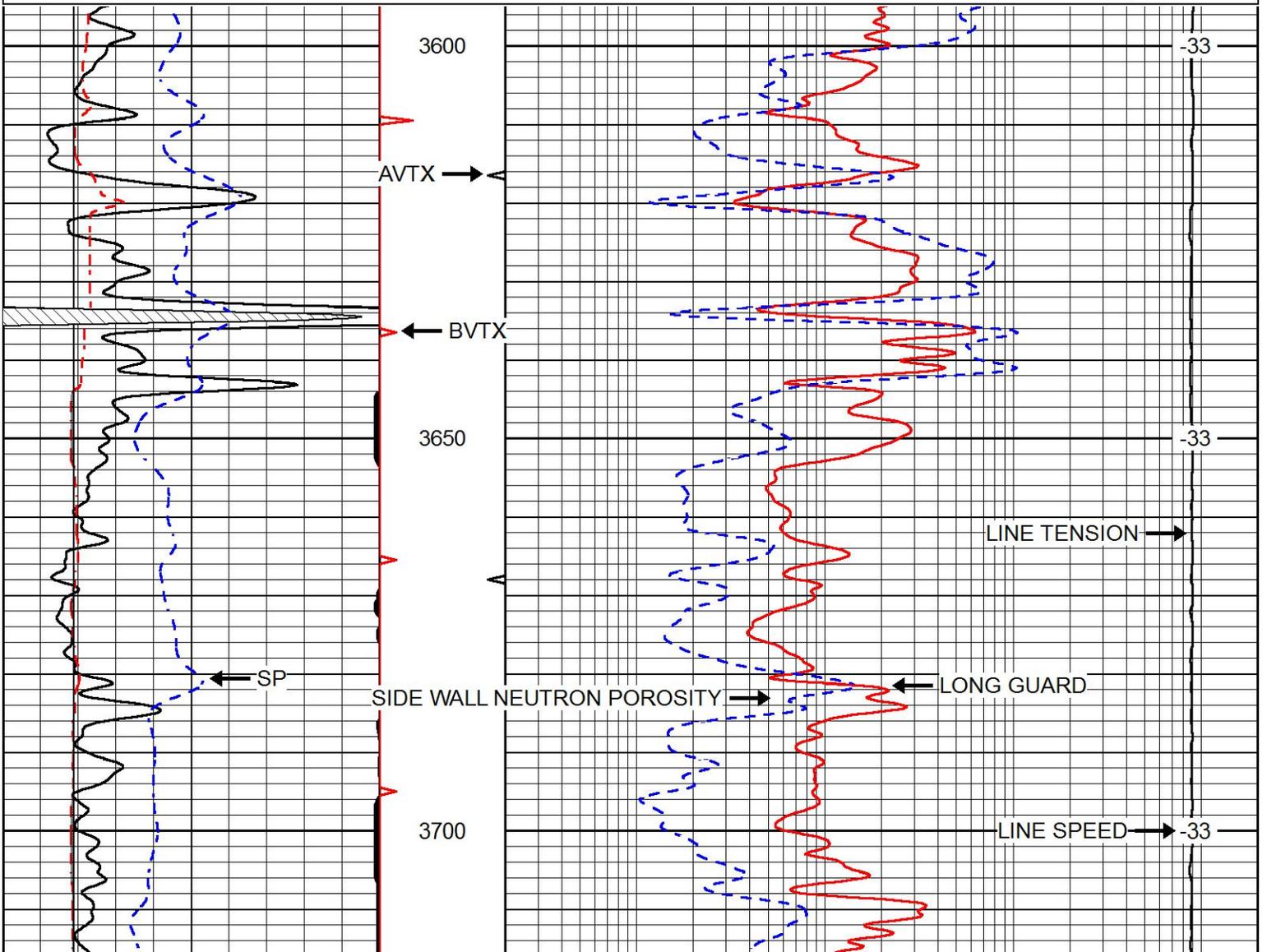
MAIN PASS

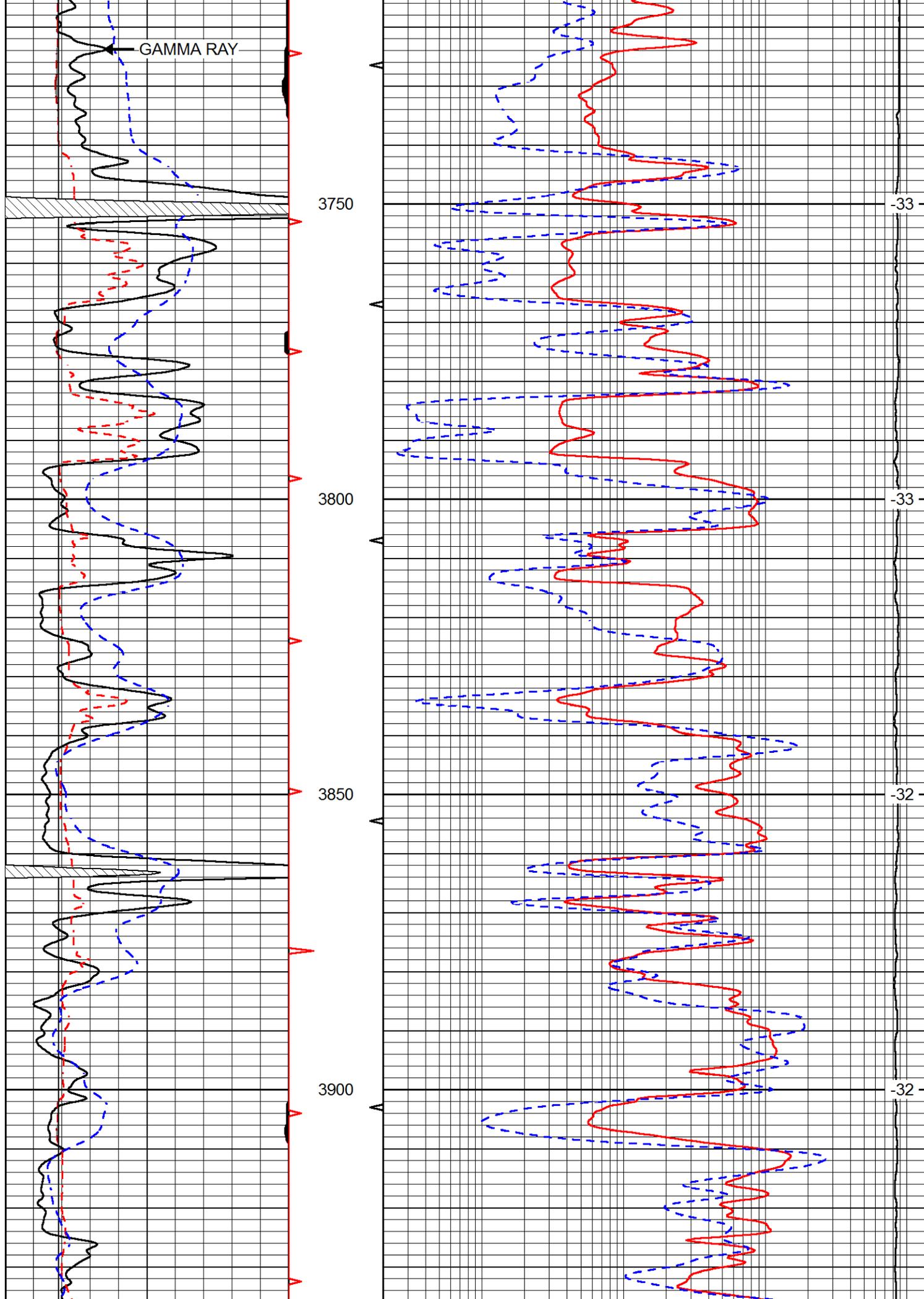
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 Dataset Pathname: rag/pass5.1
 Presentation Format: rag
 Dataset Creation: Fri Oct 14 15:42:29 2016
 Charted by: Depth in Feet scaled 1:240

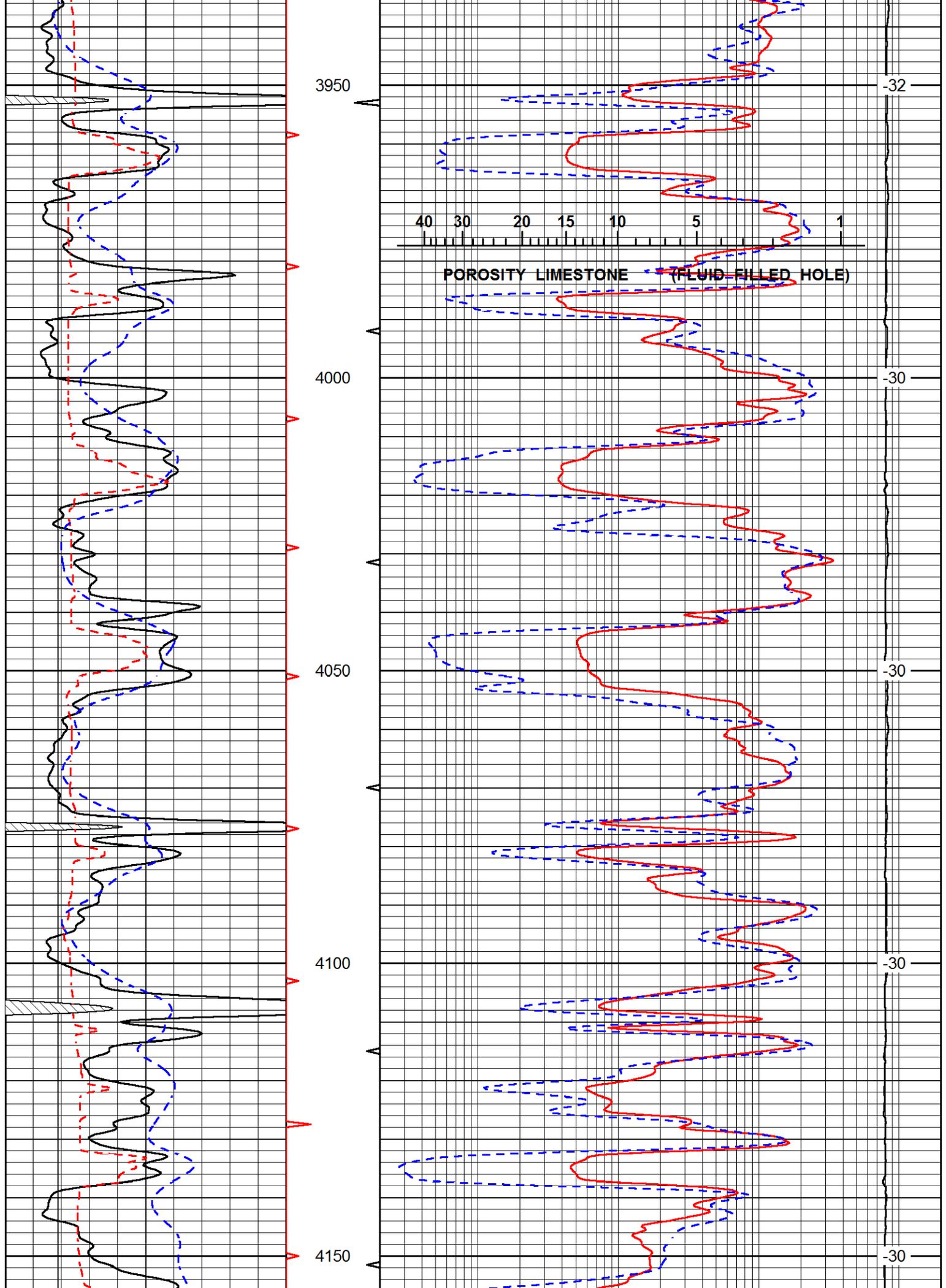
0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16
6	BIT SIZE	16
-200	SP (mV)	0

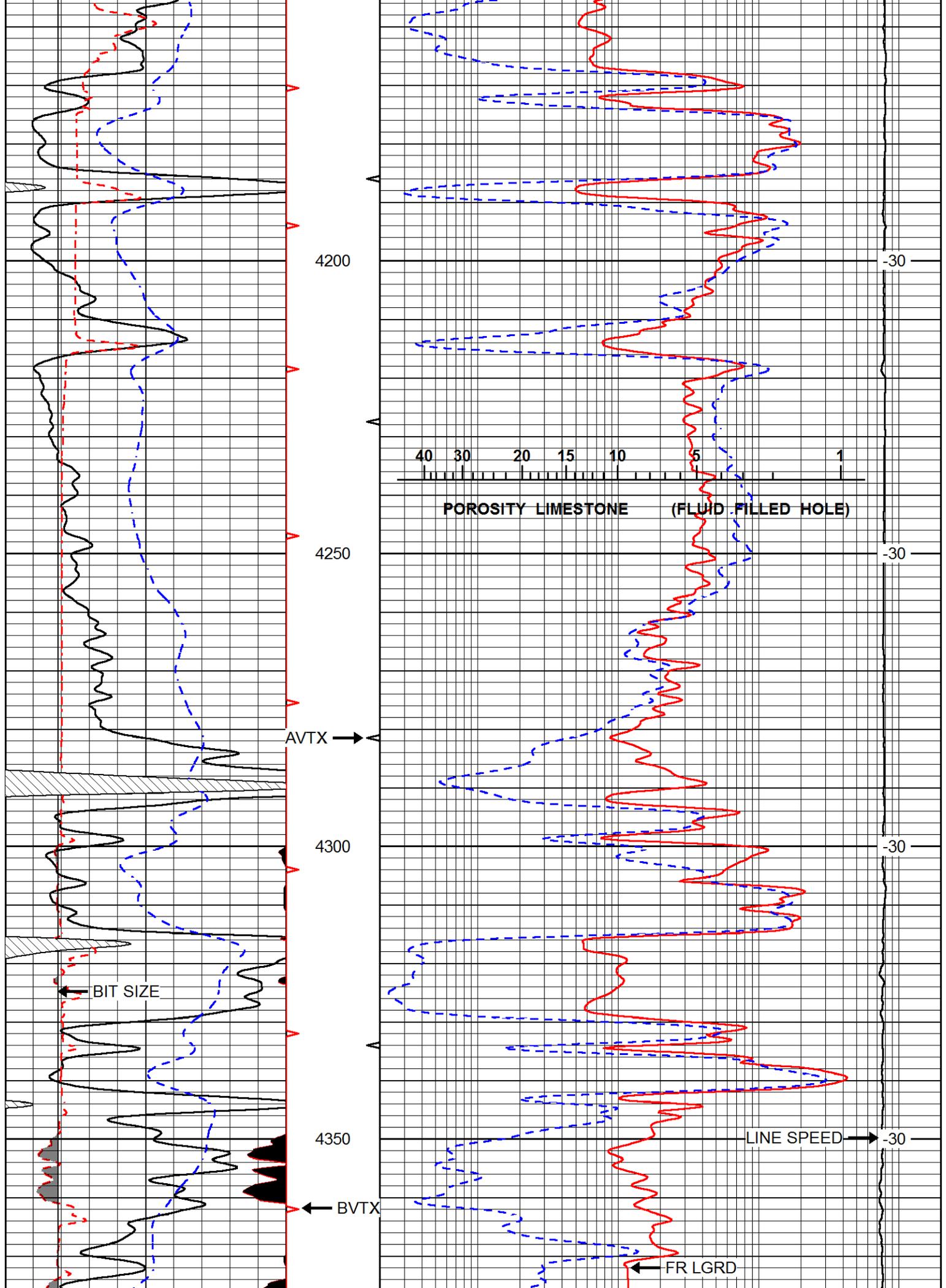
0.2	LONG GUARD (Ohm-m)	2000
560	SIDE WALL NEUTRON POROSITY (NAPI)	2160
15000	LINE TENSION (lb)	0

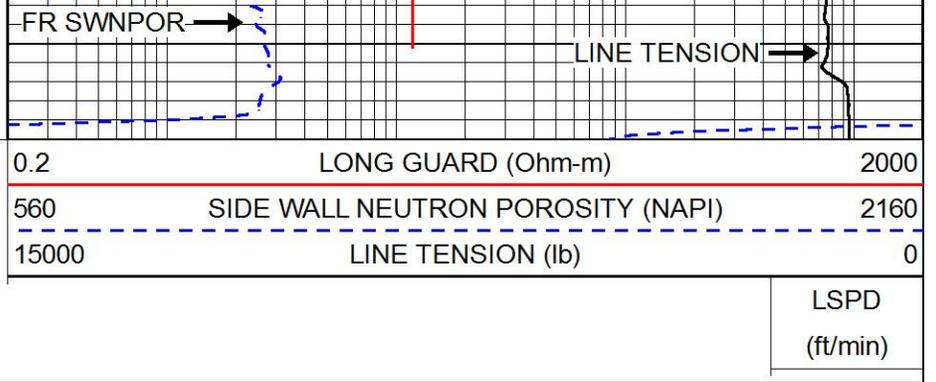
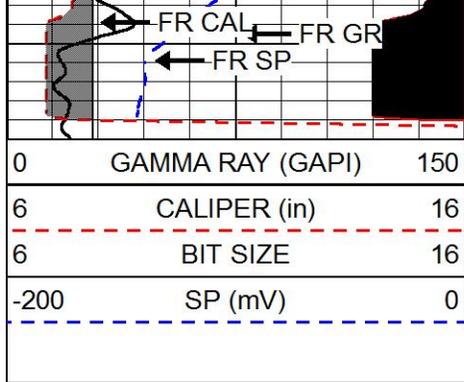
LSPD
(ft/min)





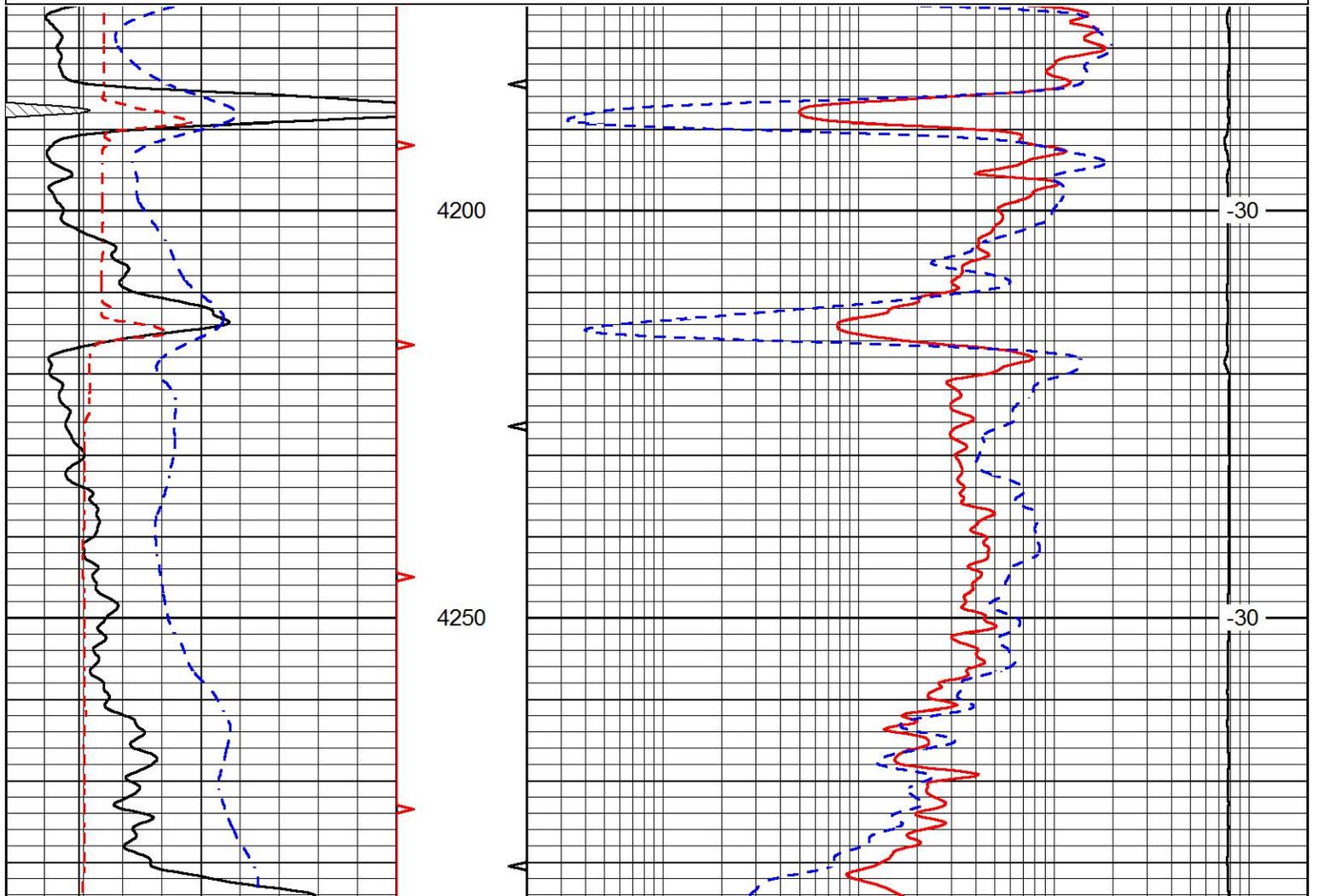
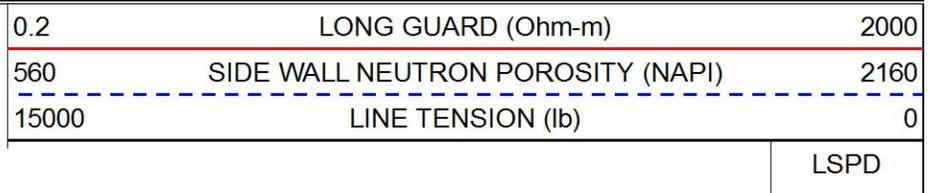
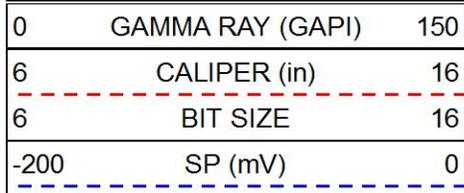


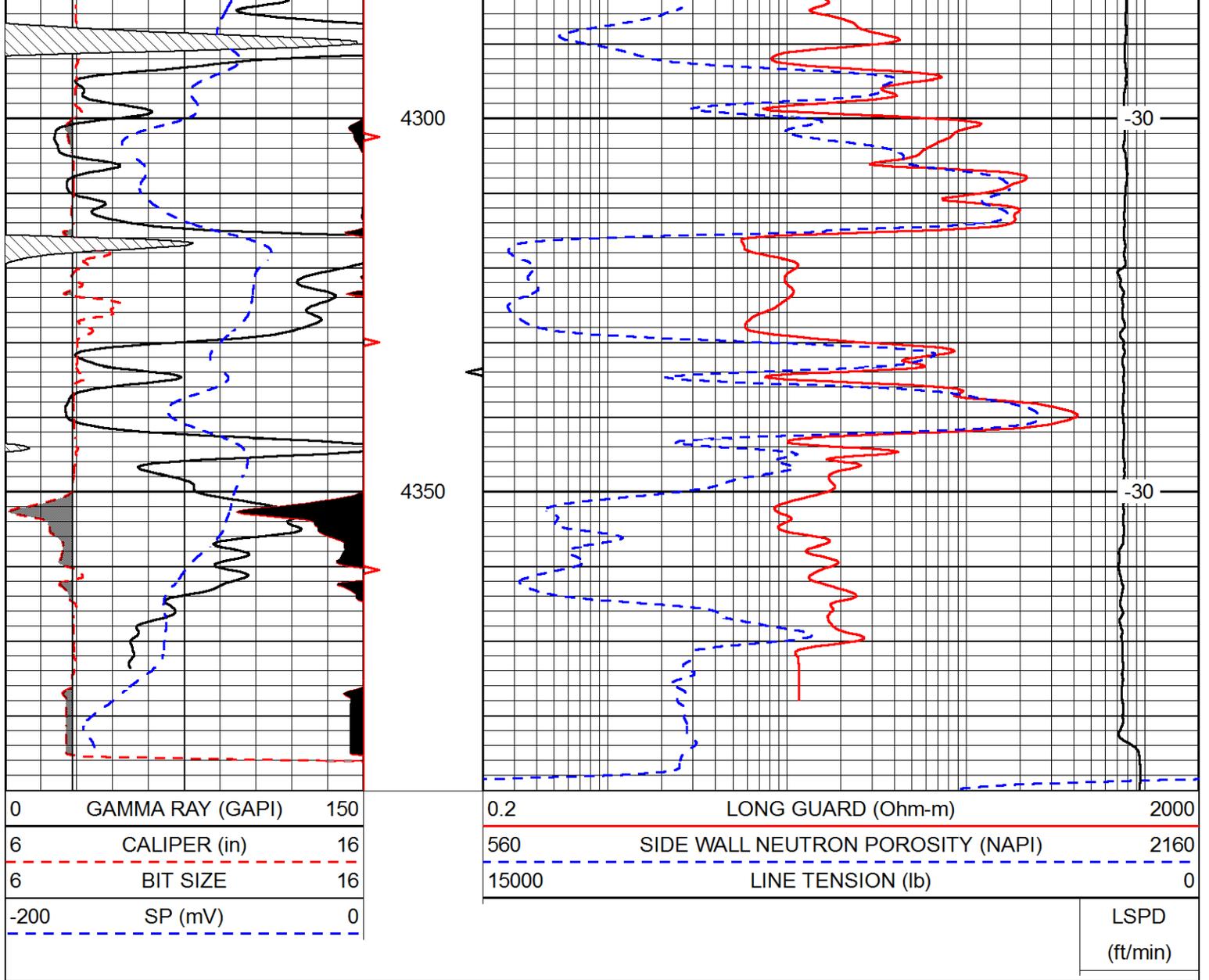




REPEAT SECTION

Database File: transpacifcoil_mcjunkin-bruntz_a_unit_1-6.db
 Dataset Pathname: rag/pass4.1
 Presentation Format: rag
 Dataset Creation: Fri Oct 14 15:32:51 2016
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: transpacicoil_mojunkin-bruntz_a_unit_1-6.db
 Dataset Pathname: rag/pass4
 Dataset Creation: Fri Oct 14 14:21:12 2016

Sidewall Neutron Calibration Report

Serial Number: 139-130
 Tool Model: M&W-SP

SWN Calibration: Tue Aug 30 15:14:50 2016

Readings: 2566.42 cps
 Target: 1085.00 cps
 Normalization: 0.3400

Caliper Calibration: Tue Aug 30 15:14:50 2016

Readings: 0.86, 0.26
 Reference: 4.00, 14.00
 Gain: -15.40
 Offset: 17.28

Gamma Ray Calibration Report

Serial Number: 89-M&W
Tool Model: M&W
Calibration Performed: Fri Sep 30 22:06:47 2016

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps



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