



MICRORESISTIVITY LOG

PIONEER
Pioneer Energy Services

Company **CONCORDE RESOURCES CORP**
Well **MCDANIEL NO. 1-14**
Field **WILDCAT**
County **LOGAN**
State **KANSAS**

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Location: API #: 15-109-21530-00-00
177' FSL & 754' FWL
SEC 14 TWP 15S RGE 34W
Permanent Datum **GROUND LEVEL** Elevation **3007'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**
Other Services
CNL/CDL
DIL
Elevation
K.B. 3017'
D.F. N/A
G.L. 3007'

Date	1/12/2018		
Run Number	ONE		
Depth Driller	4740'		
Depth Logger	4738'		
Bottom Logged Interval	4737'		
Top Log Interval	3600'		
Casing Driller	8.625" @ 307'		
Casing Logger	303'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	4000		
Density / Viscosity	9.5 58		
pH / Fluid Loss	9.5 9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.35 @ 51		
Rmt @ Meas. Temp	.26 @ 51		
Rmc @ Meas. Temp	.47 @ 51		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.14 @ 123		
Operating Rig Time	2 HOURS		
Max Rec. Temp. F	123 DEGF		
Equipment Number	108		
Location	HAYS		
Recorded By	J. HENRICKSON		
Witnessed By	KEVIN HOWARD		

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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.

PENCE KANSAS
NORTH ON 320 ROAD TO DAKOTA ROAD
100 FOOT NORTH, EAST INTO

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: KEVIN HOWARD
Secondary Witness:
Secondary Witness:
Secondary Witness:

DatabaseC:\ProgramData\WarriorData\concorde_mcdaniel_1_14.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	123	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-110	21	Off	4738

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00	
CNLSC	37.48		CNT-M&W (tk10-MW)	5.50	3.50	100.00	
CNSSC	36.73						
LSD	28.43		CDL-M&W (168-986)	8.50	4.00	250.00	
	DCAL						28.42
	SSD						27.93
MCAL	19.83		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00	
	MI						19.83
	MN						19.83
RLL3	15.80		DIL-M&W (PSI 978)	18.50	3.50	220.00	
RLL3F	15.79						
CILD	8.00						

CILM

4.70

SP

0.20

Dataset: concorde_mcdaniel_1_14.db: field/well/stackml/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

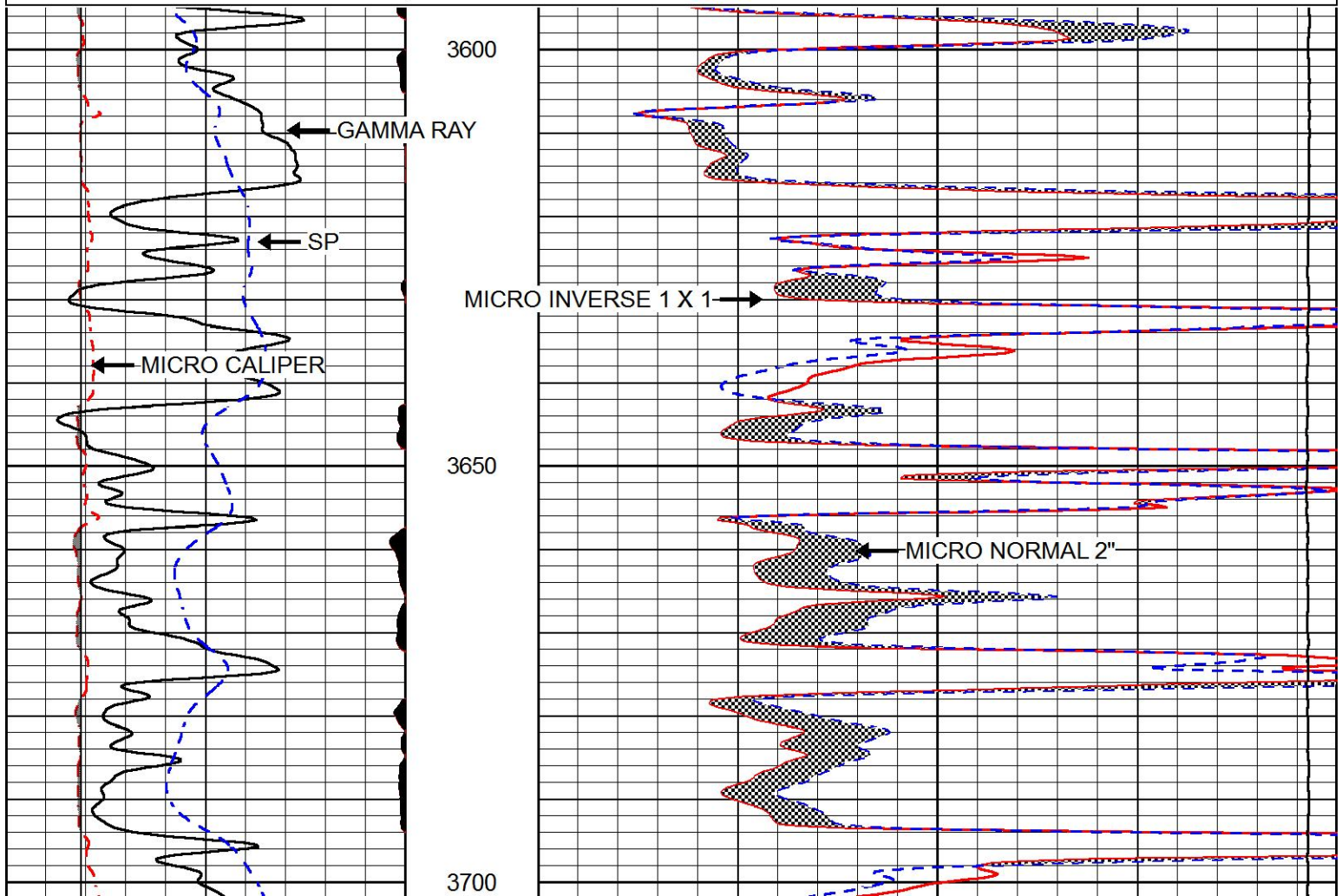


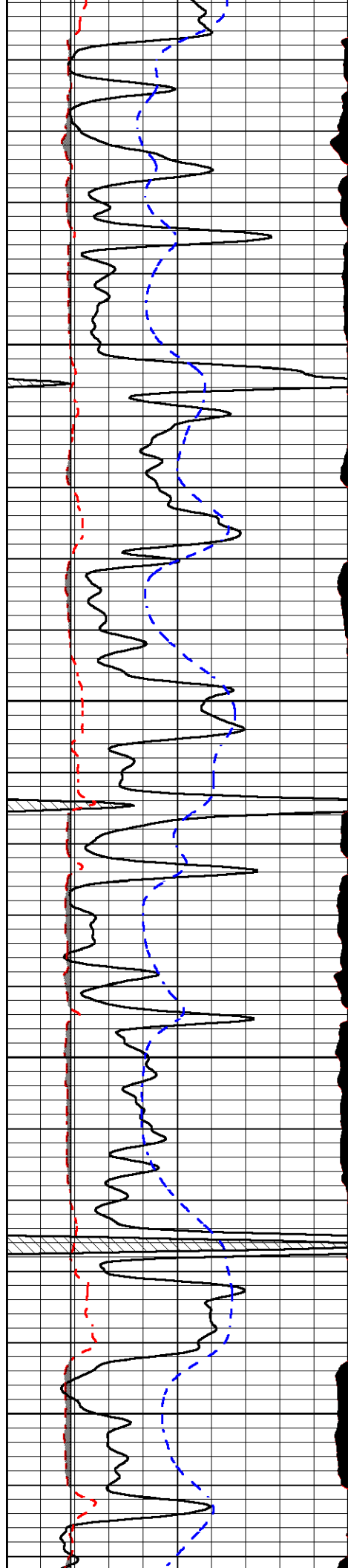
MAIN PASS

Database File concorde_mcdaniel_1_14.db
Dataset Pathname stackml/pass3.1
Presentation Format micro
Dataset Creation Fri Jan 12 19:00:12 2018
Charted by Depth in Feet scaled 1:240

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

0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0



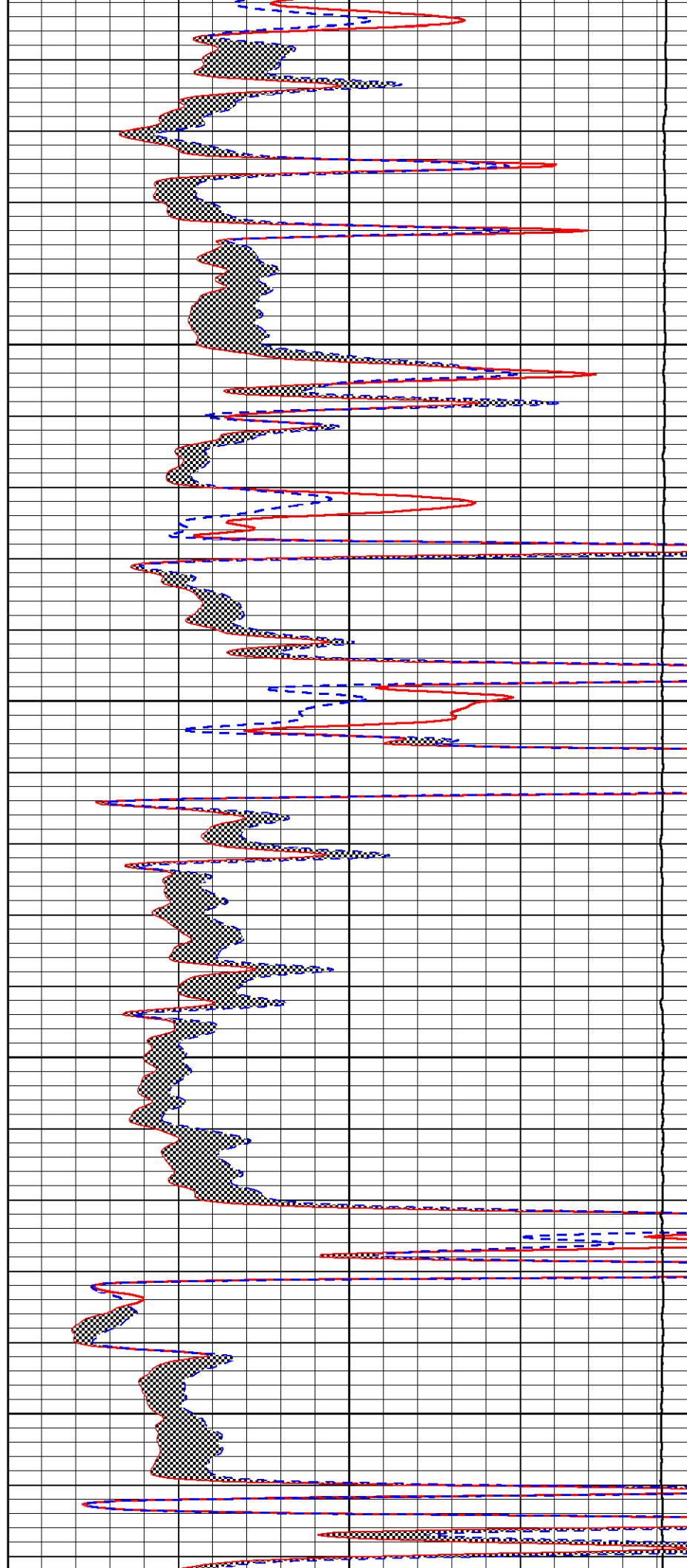


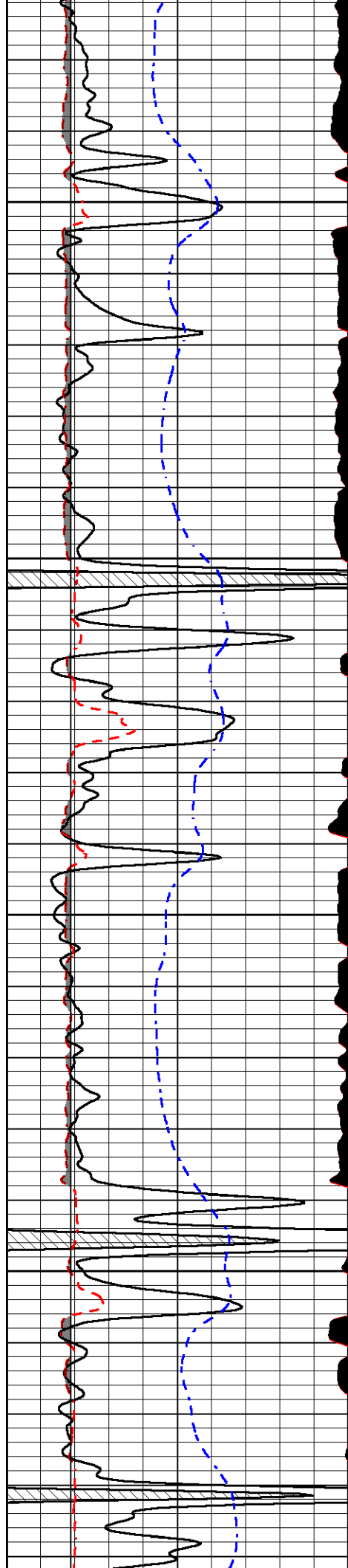
3750

3800

3850

3900



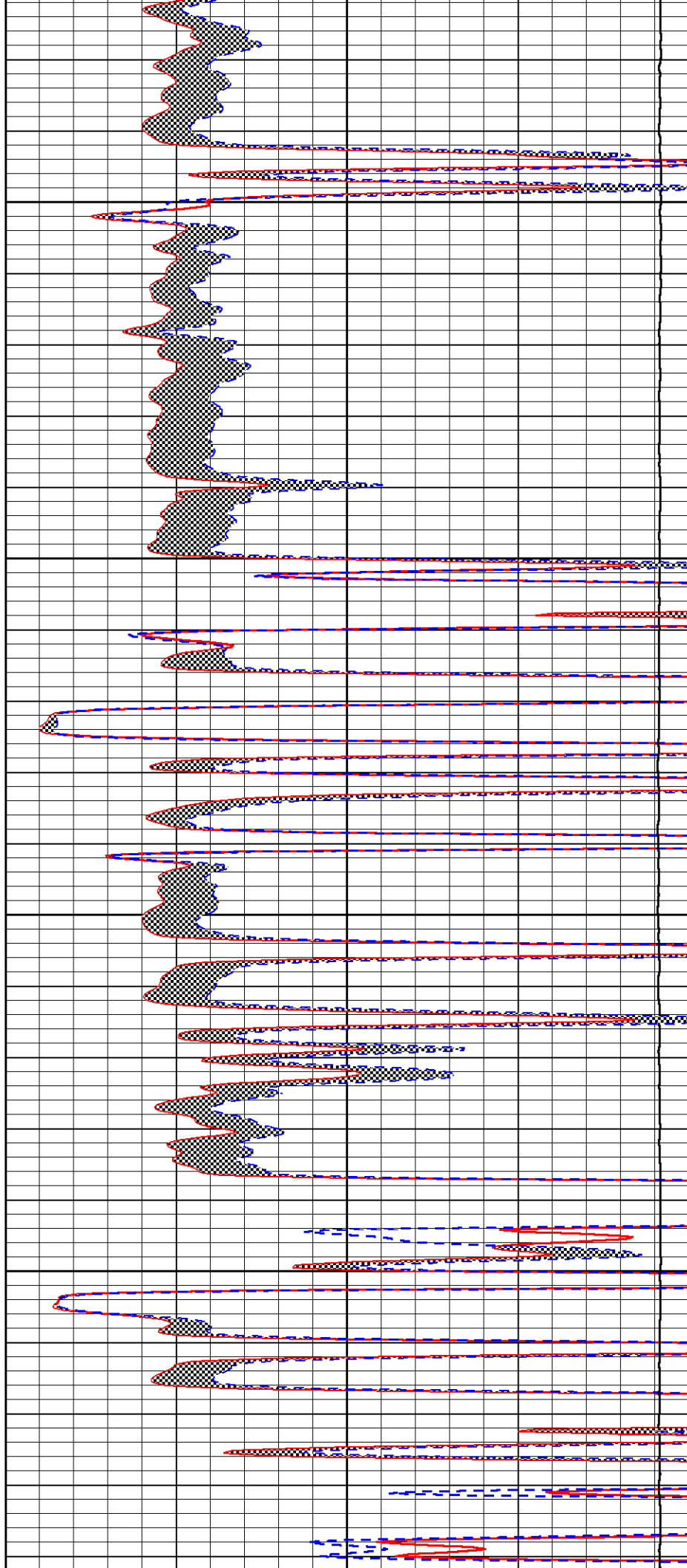


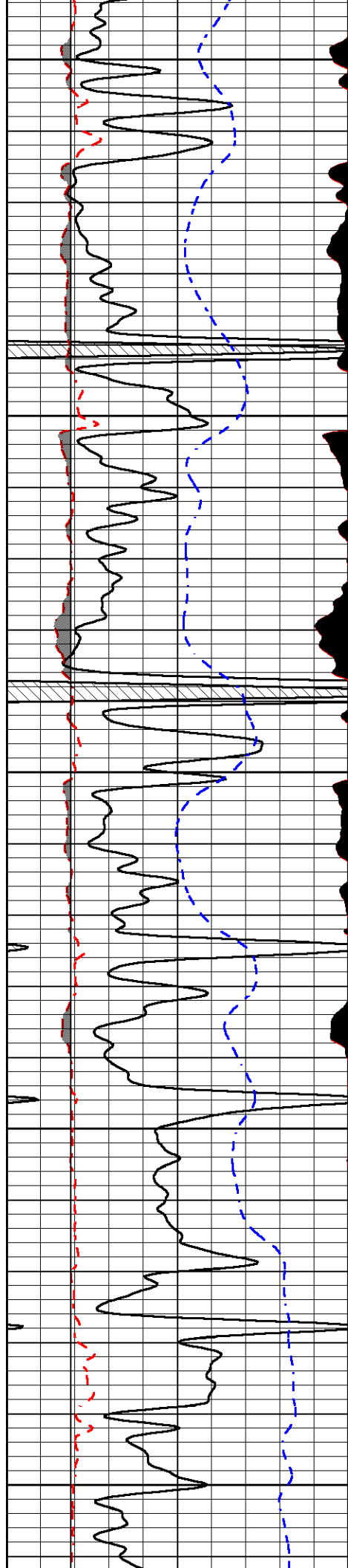
3950

4000

4050

4100





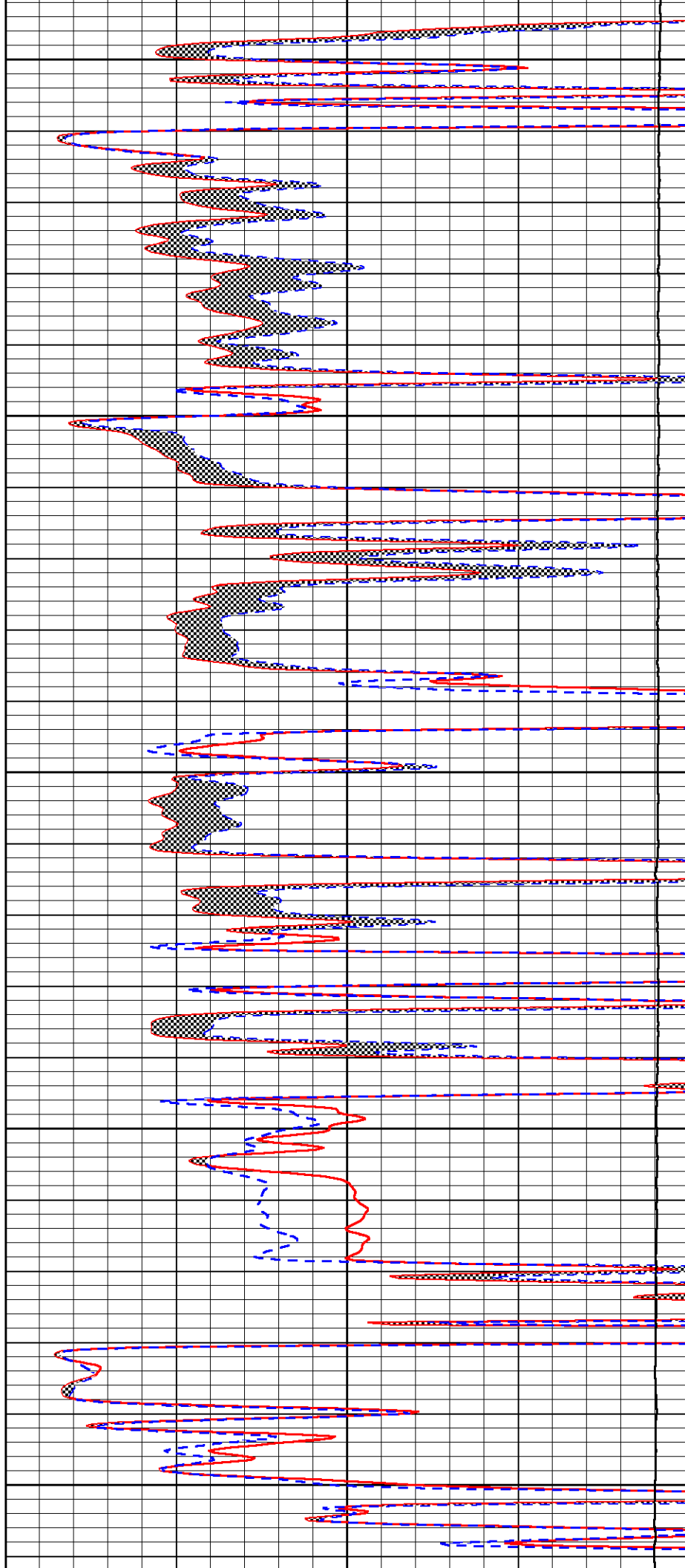
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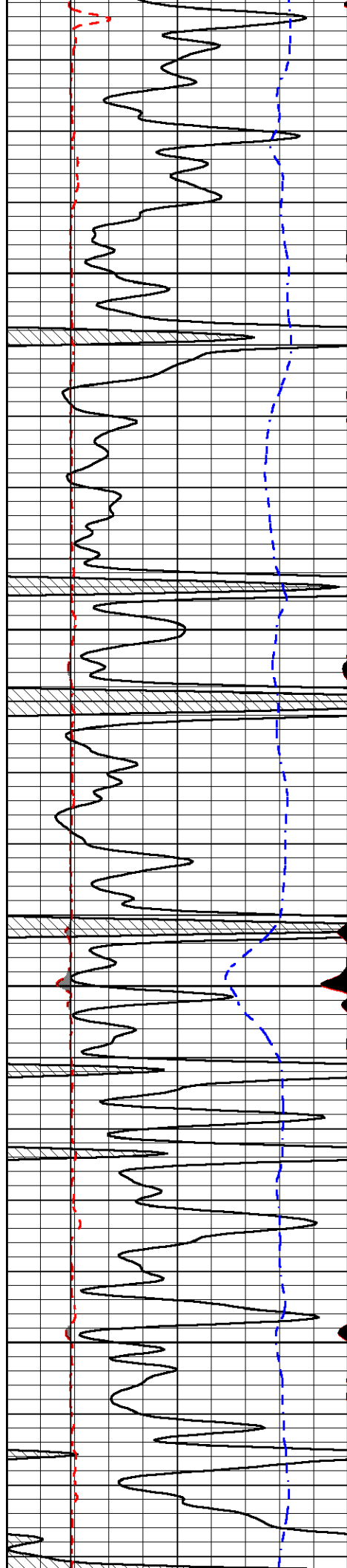
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4250

4300

4350



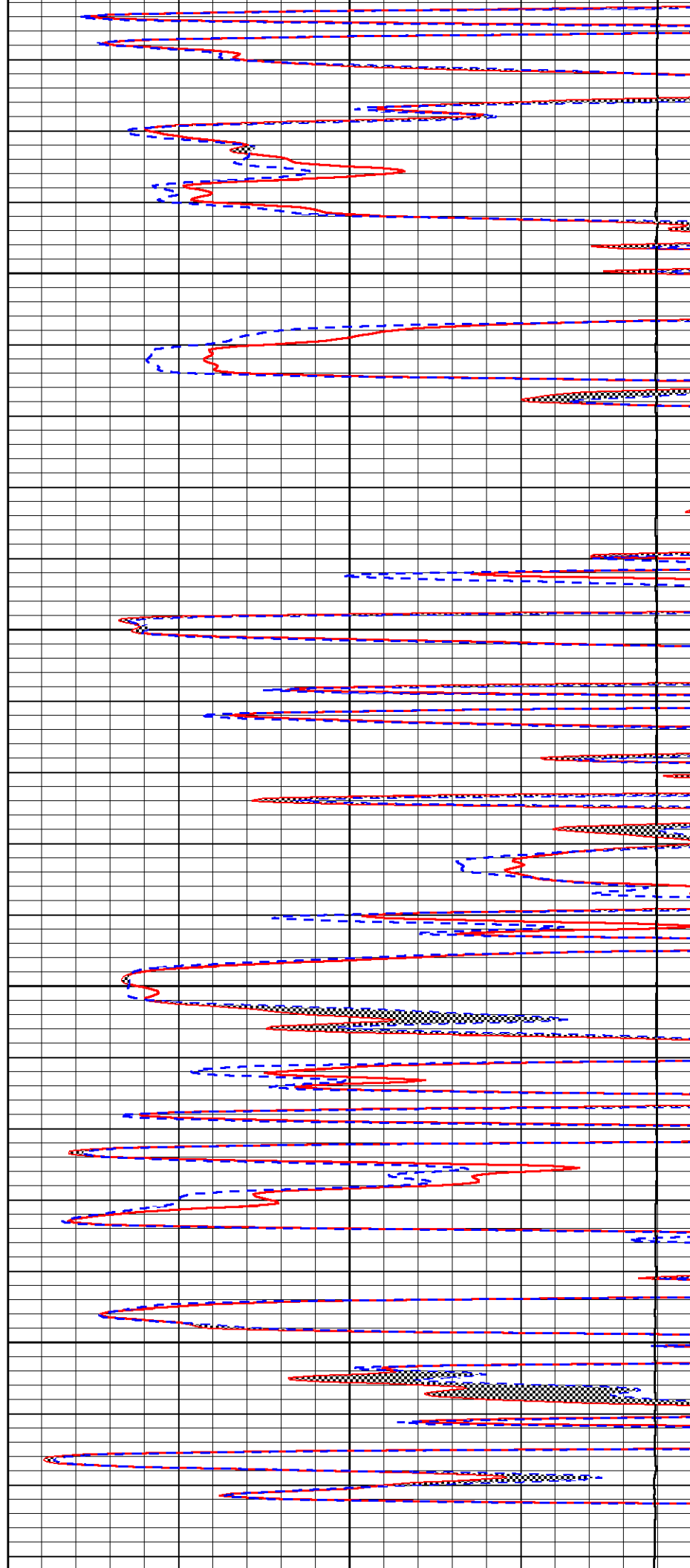


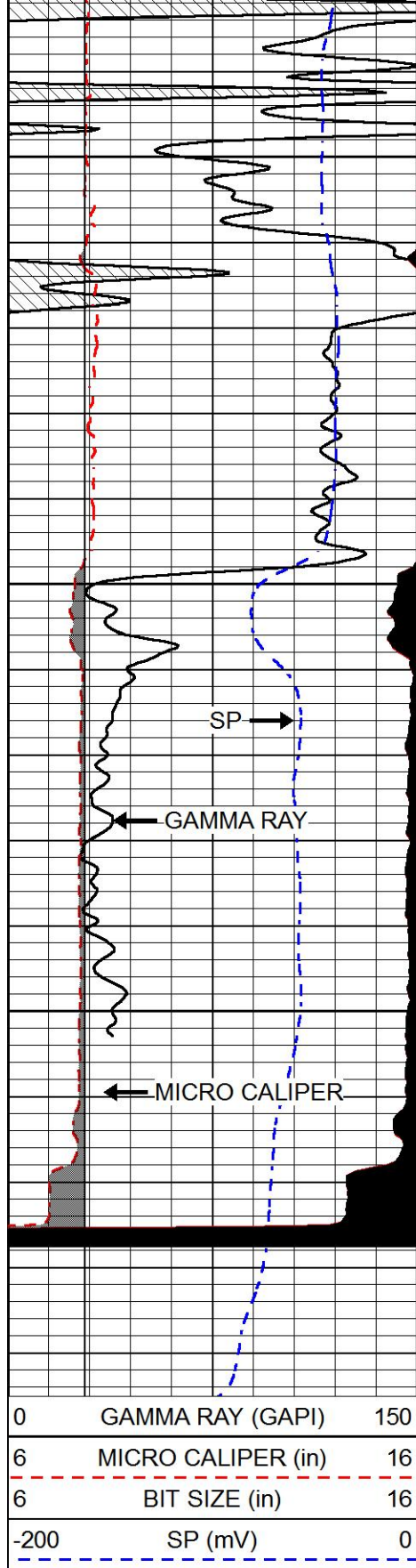
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4450

4500

4550

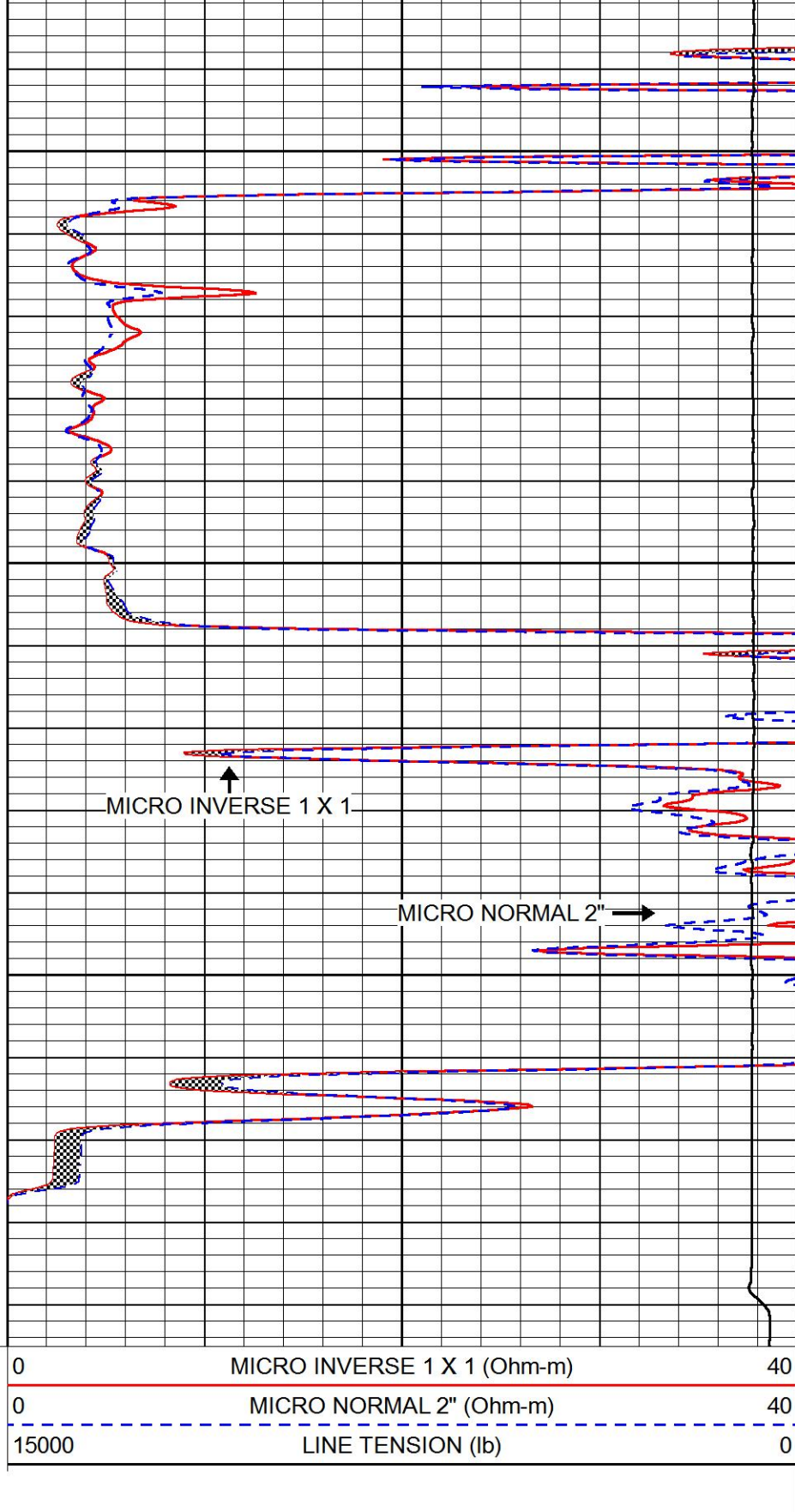




4600

4650

4700

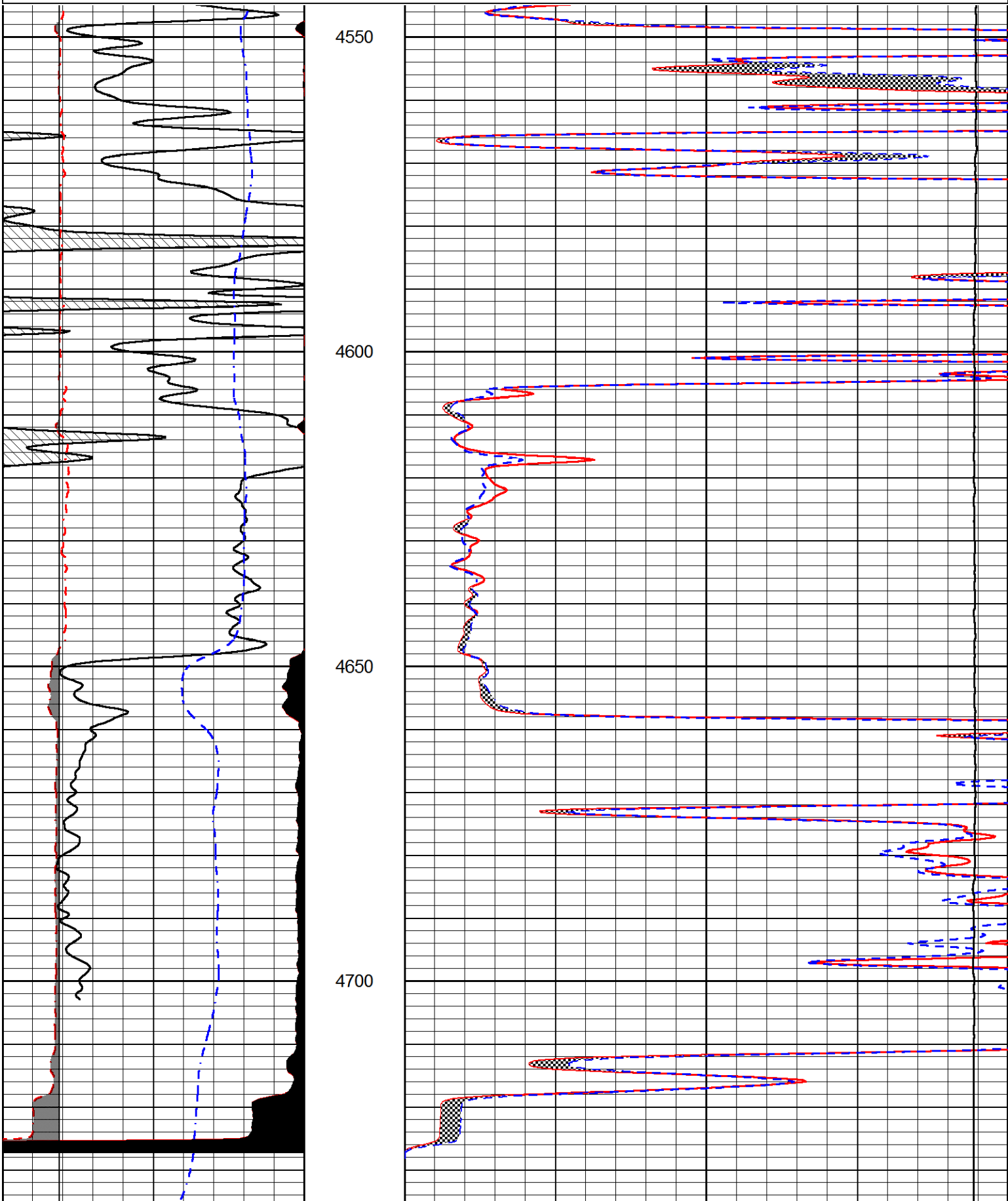


REPEAT SECTION

Database File concorde_mcdaniel_1_14.db
Dataset Pathname stackml/pass2.1
Presentation Format micro

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

0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0



0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0

Database File	concorde_mcdaniel_1_14.db
Dataset Pathname	stackml/pass3.1
Dataset Creation	Fri Jan 12 19:00:12 2018

Serial-Model: PSI 978-M&W
Calibration Performed: Wed Dec 13 12:45:09 2017

Microlog Calibration Report

Compensated Density Calibration Report

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.685	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.528		
	Size		Reading		
Small Ring	4.00	in	1.00		
Large Ring	14.00	in	1.20		

Compensated Neutron Calibration Report

Compensated Neutron Calibration Report

Serial Number: tk10-MW
Tool Model: M&W
Calibration Performed: Wed Nov 16 11:21:36 2016

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89-M&W
Tool Model: M&W
Calibration Performed: Tue Apr 11 17:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps



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