



PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company **CONCORDE RESOURCES CORP**
Well **MCDANIEL #5-12**
Field **WILDCAT**
County **LOGAN**
State **KANSAS**

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Location: API #: 15-109-21443-00-00

1772' FNL & 2297' FWL

SEC 12 TWP 15S RGE 34W

Permanent Datum **GROUND LEVEL** Elevation **2850'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Other Services
CNL/CDL
DIL
Elevation
K.B. 2860'
D.F. N/A
G.L. 2850'

Date 9/19/2016

Run Number ONE

Depth Driller 4560'

Depth Logger 4558'

Bottom Logged Interval 4557'

Top Log Interval 3450'

Casing Driller 8.625" @ 308'

Casing Logger 307'

Bit Size 7.875"

Type Fluid in Hole CHEMICAL

Salinity, ppm CL 4500

Density / Viscosity 9.5 58

pH / Fluid Loss 10.0 8.8

Source of Sample FLOWLINE

Rm @ Meas. Temp 0.60 @ 88

Rmf @ Meas. Temp 0.45 @ 88

Rmc @ Meas. Temp 0.81 @ 88

Source of Rmf / Rmc CHARTS

Rm @ BHT 0.43 @ 122

Operating Rig Time 3 HOURS

Max Rec. Temp. F 122

Equipment Number 91

Location COLBY

Recorded By D. SCHMIDT

Witnessed By GARY MOORES

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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.

OAKLEY,
23 SOUTH TO GOLD RD,
5 1/2 WEST TO 390 RD, 2 SOUTH, 4 WEST,
1 NORTH AND WEST 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: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: GARY MOORES
Secondary Witness: RICHARD BELL
Secondary Witness:
Secondary Witness:

Top - Bottom

M	A	SPSHIFT mV	SNDERRM mmho/m	SNDERR mmho/m	SZCOR	NPORSEL	FLUIDDEN g/cc
2	1	80	0	0	Off	Limestone	1
MATRXDEN g/cc 2.71	SRFTEMP degF 88	CASETHCK in 0	CASEOD in 5.5	PERFS 0	TDEPTH ft 4558	BOTTEMP degF 122	BOREID in 7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (90-1031)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

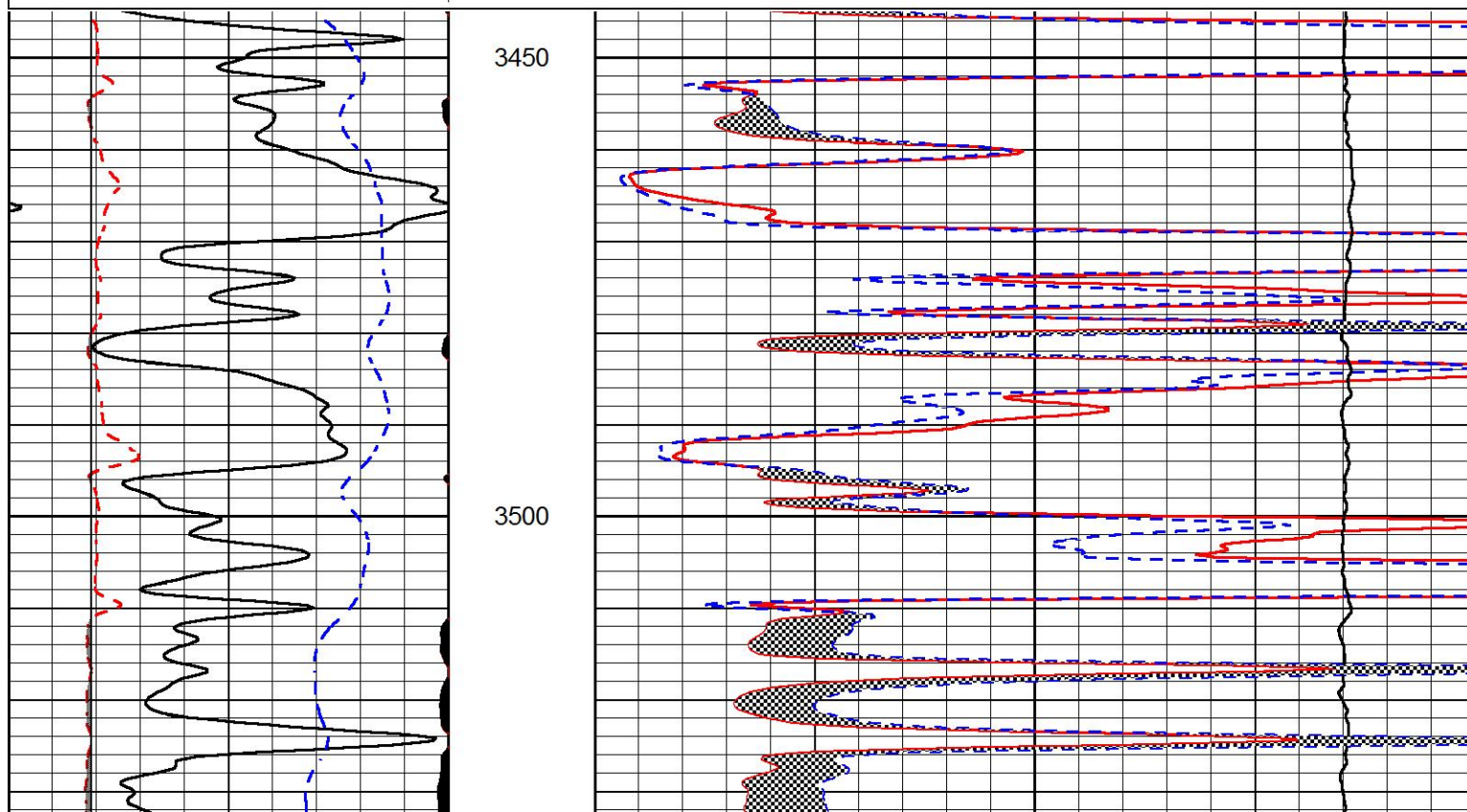
			DIL-PSI HIGH TEMP (PSI 216 HT)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					
Dataset: concorde_mcdaniel_5-12.db: field/well/STKML/pass3.6 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in						

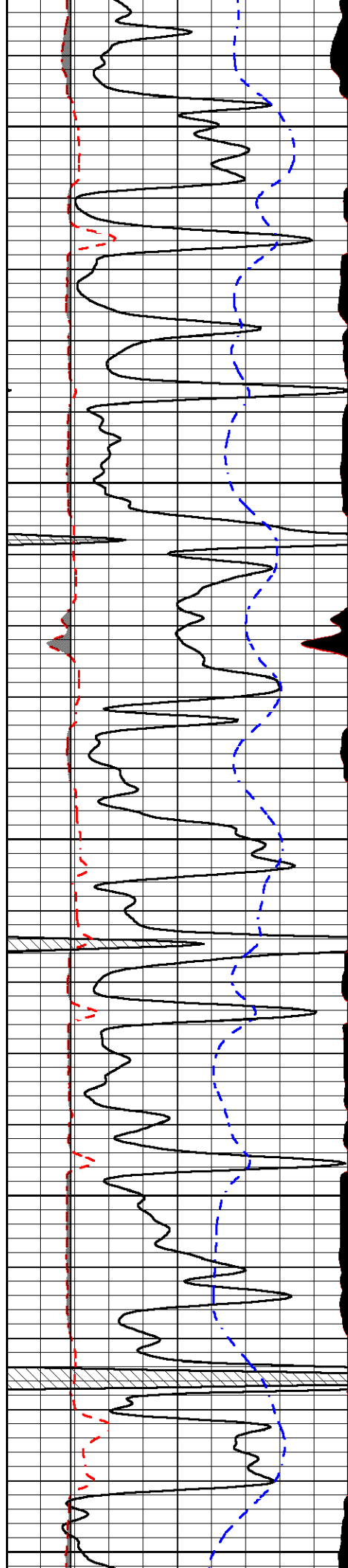


MAIN PASS

Database File	concorde_mcdaniel_5-12.db
Dataset Pathname	STKML/pass3.7
Presentation Format	micro
Dataset Creation	Mon Sep 19 15:44:20 2016
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0	Micro Inverese 1 X 1 (Ohm-m)	40
6	MCAL (in)	16	0	Micro Normal 2" (Ohm-m)	40
2.875	mcals (in)	7.875	10000	Line Weight (lb)	0
6	Bit Size (in)	16			
-200	SP (mV)	0			





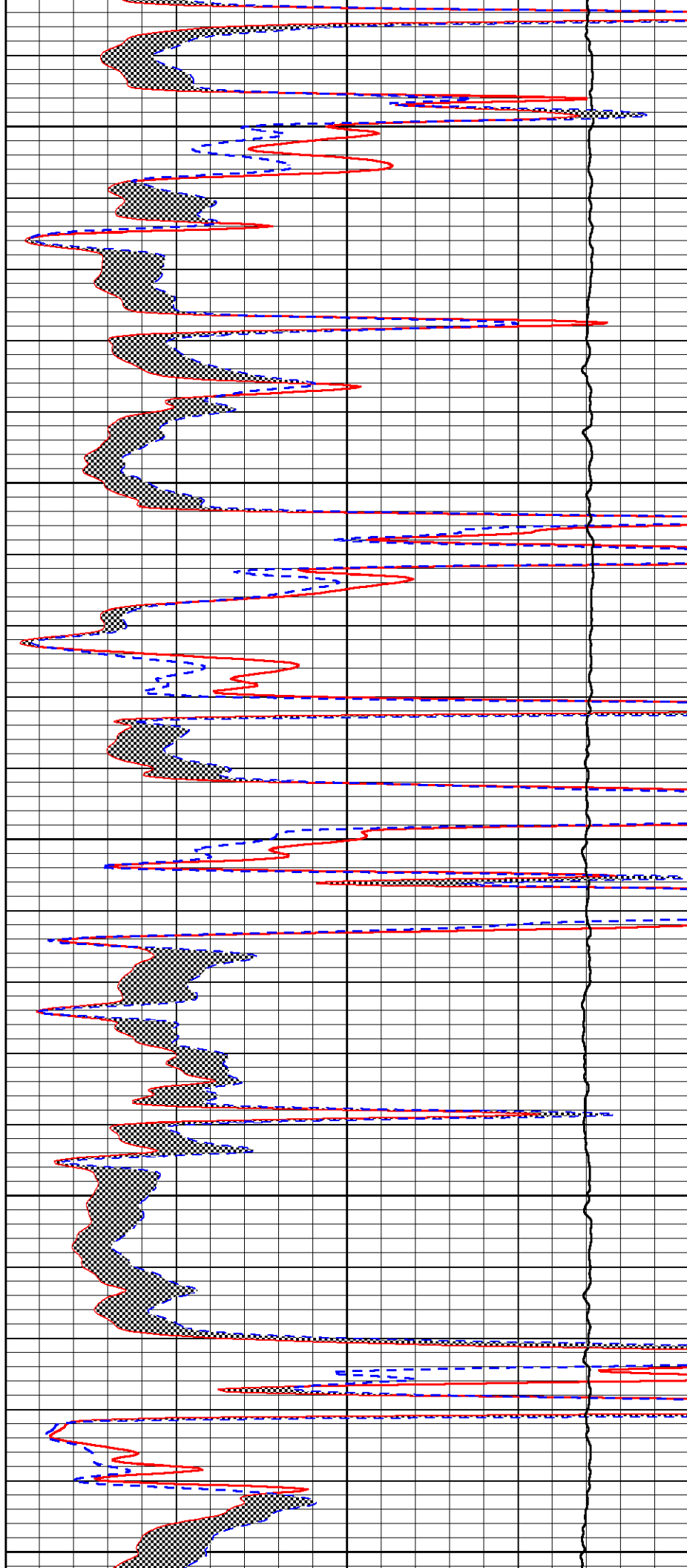
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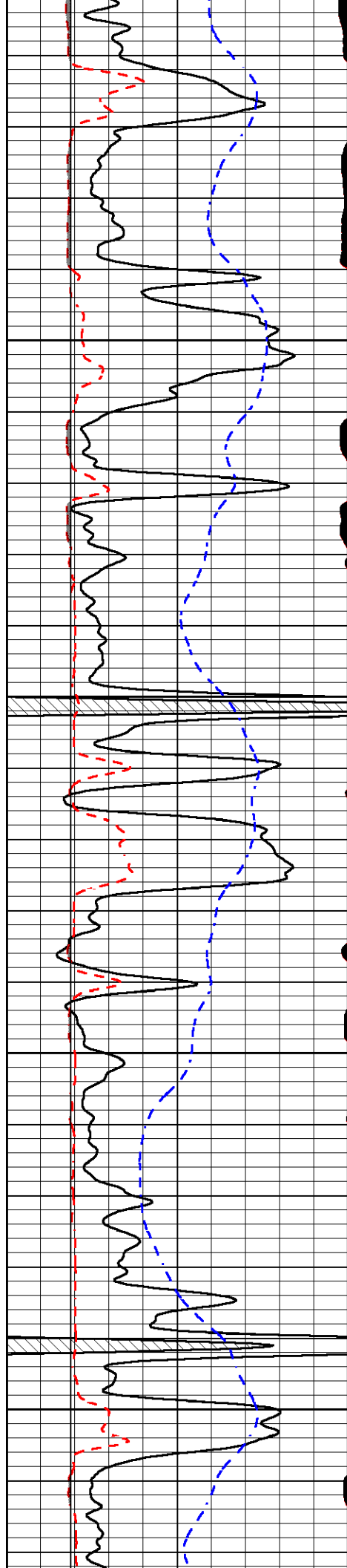
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3650

3700

3750



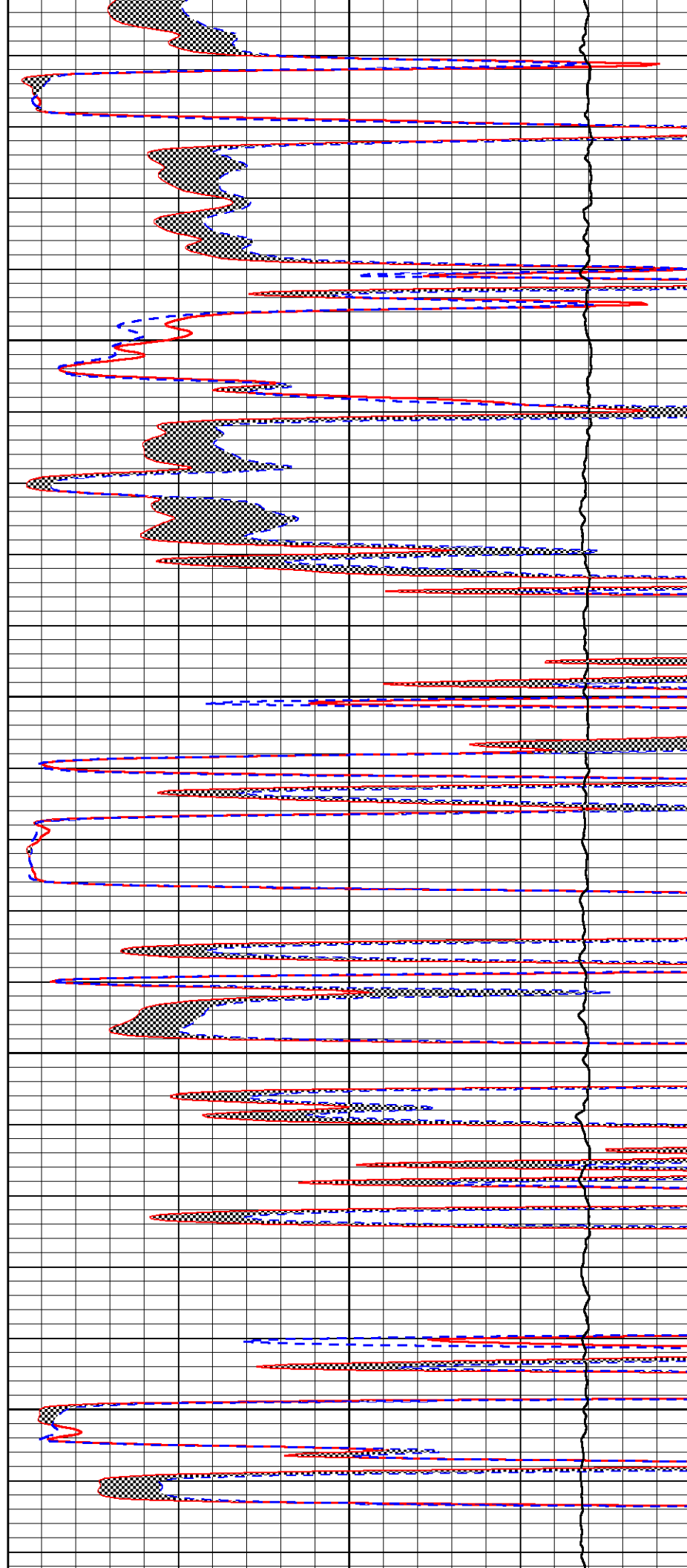


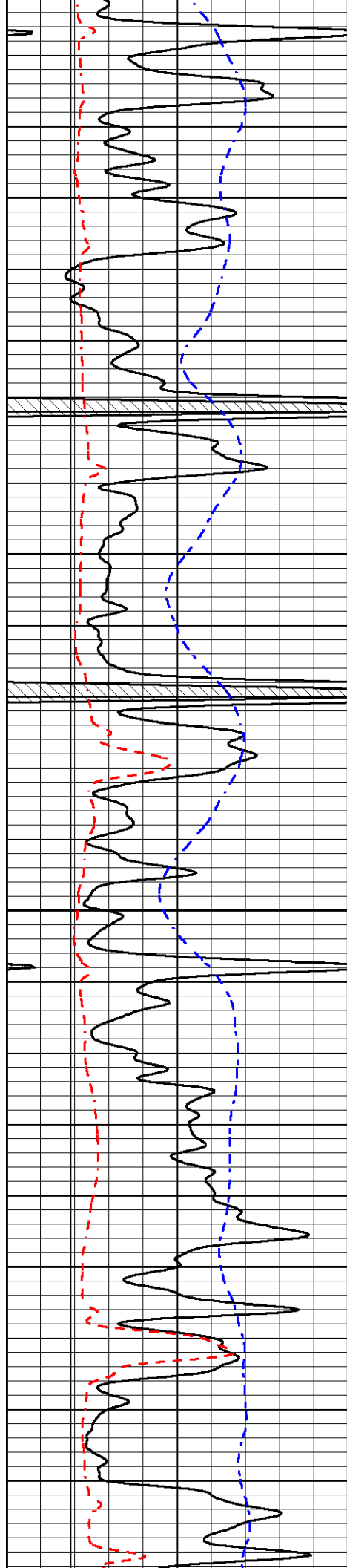
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3900

3950



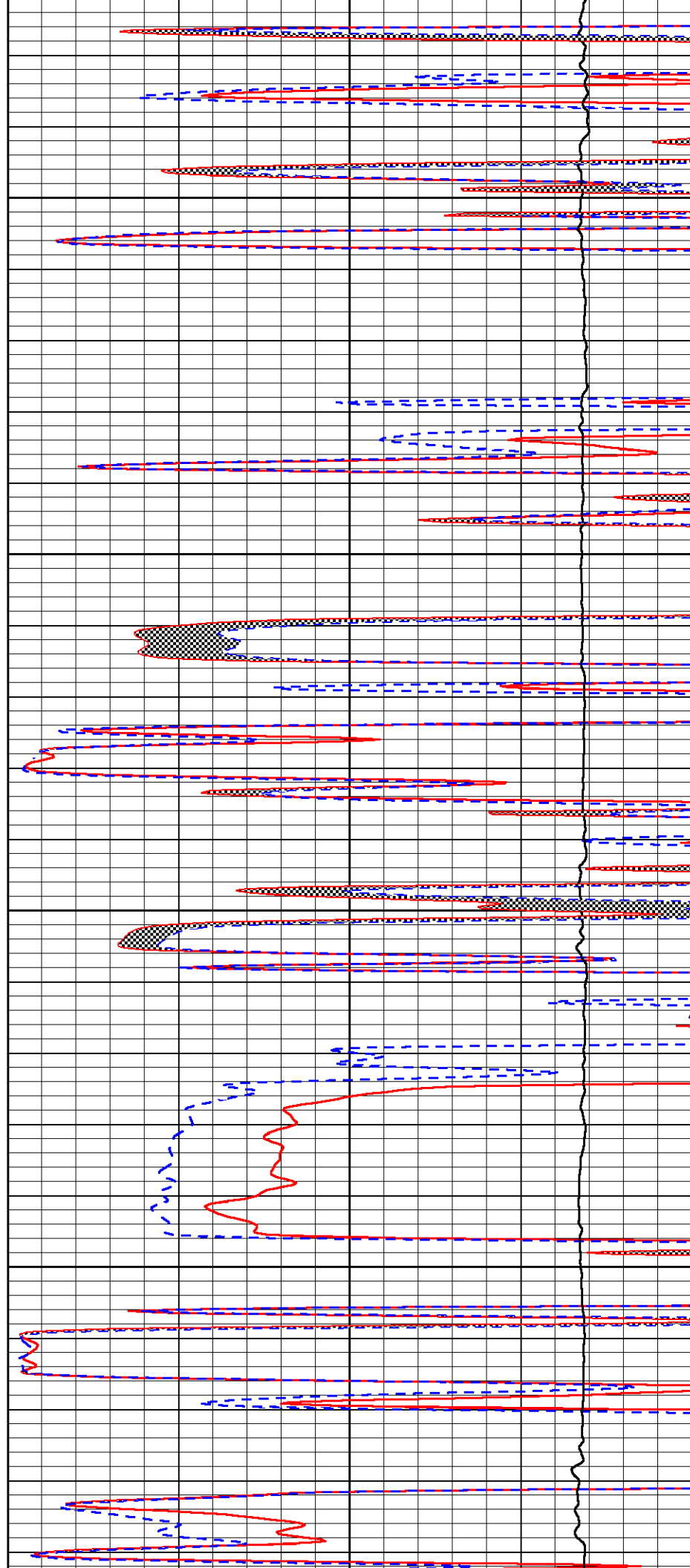


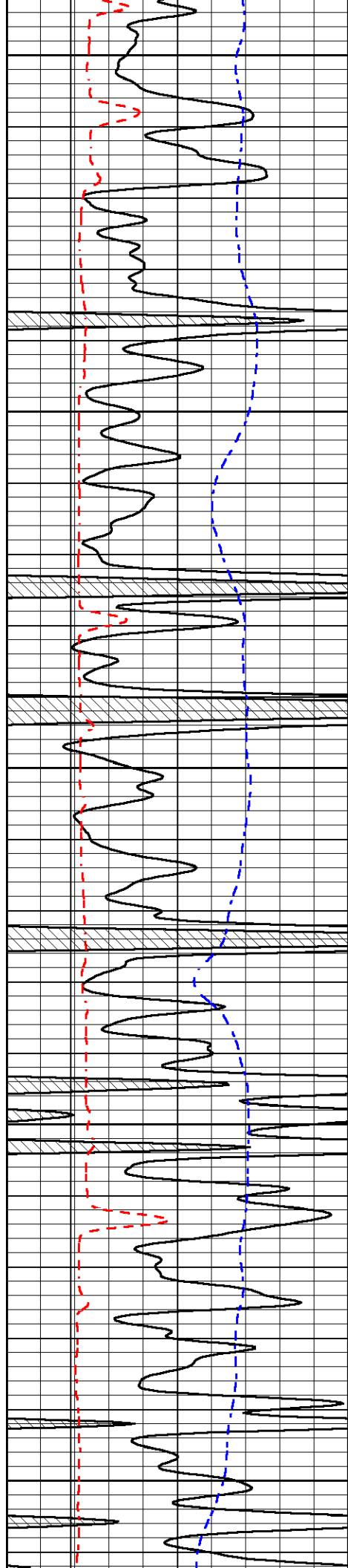
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4050

4100

4150





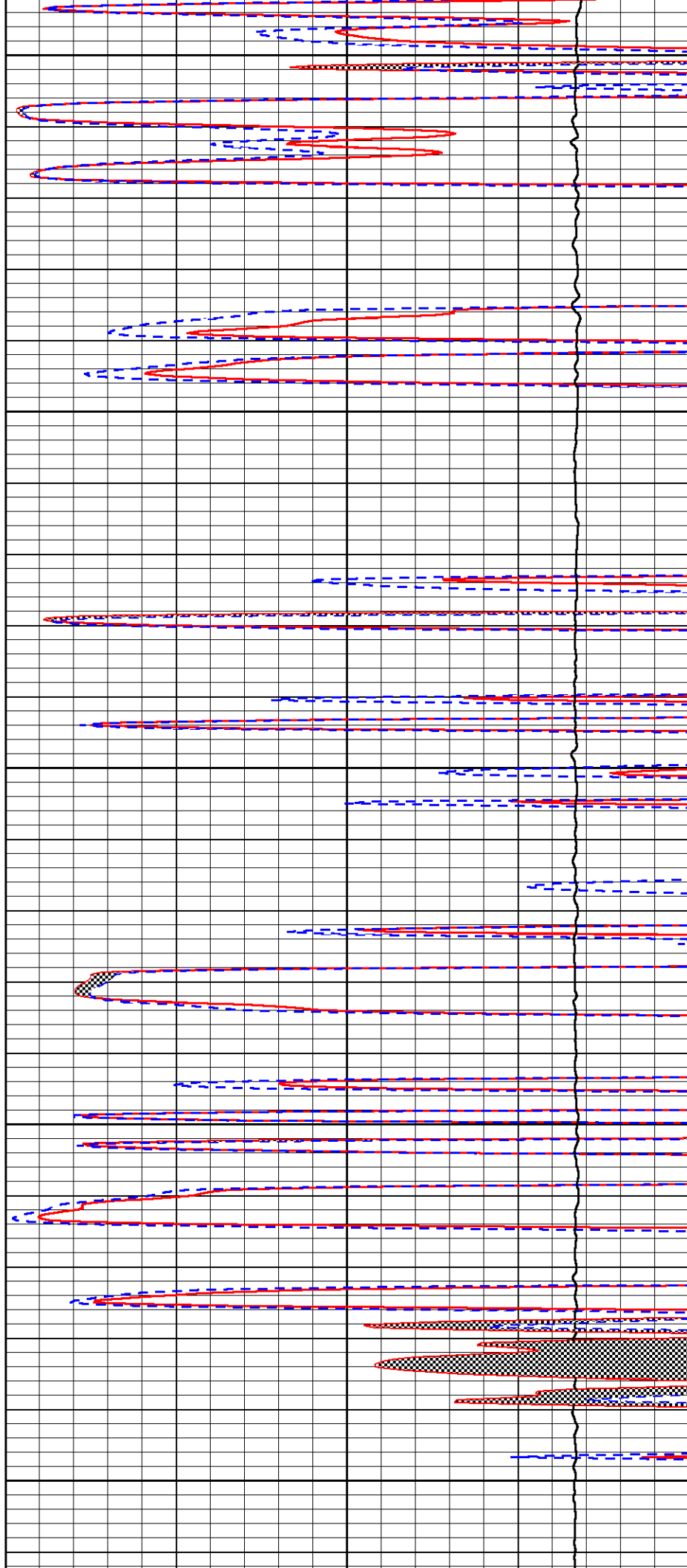
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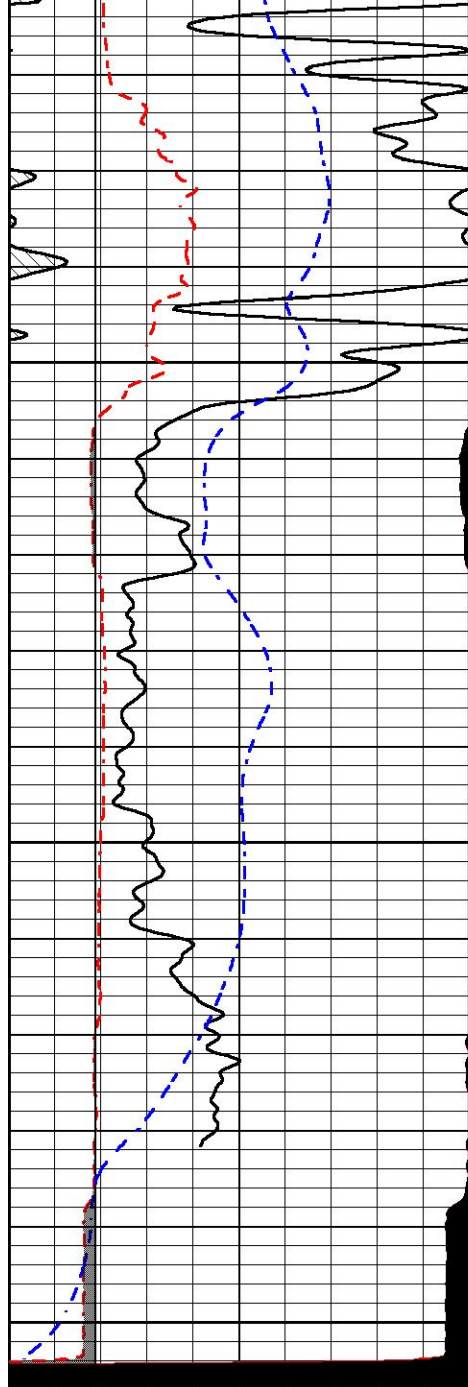
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4300

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4400



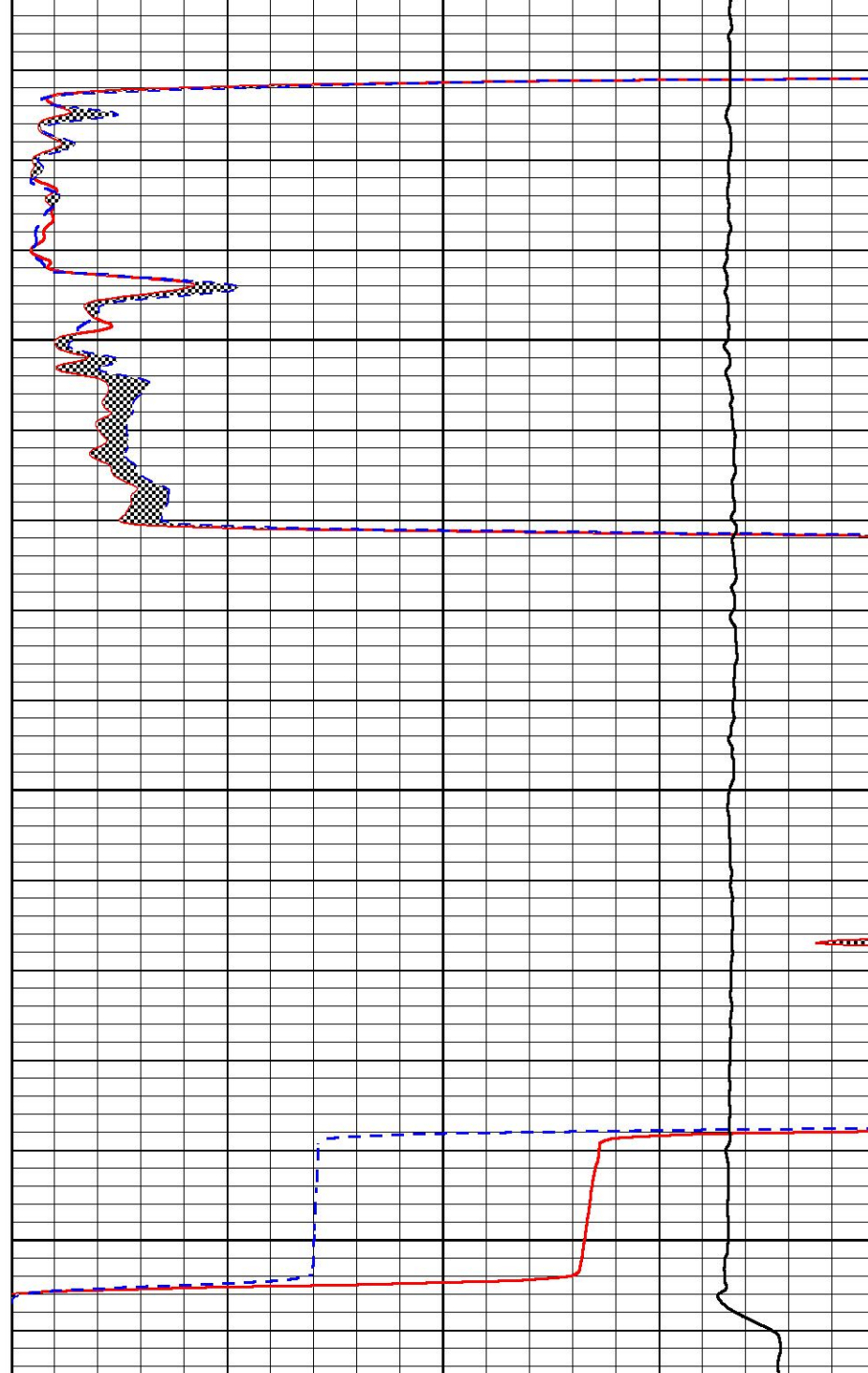


0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

4450

4500

4550



0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

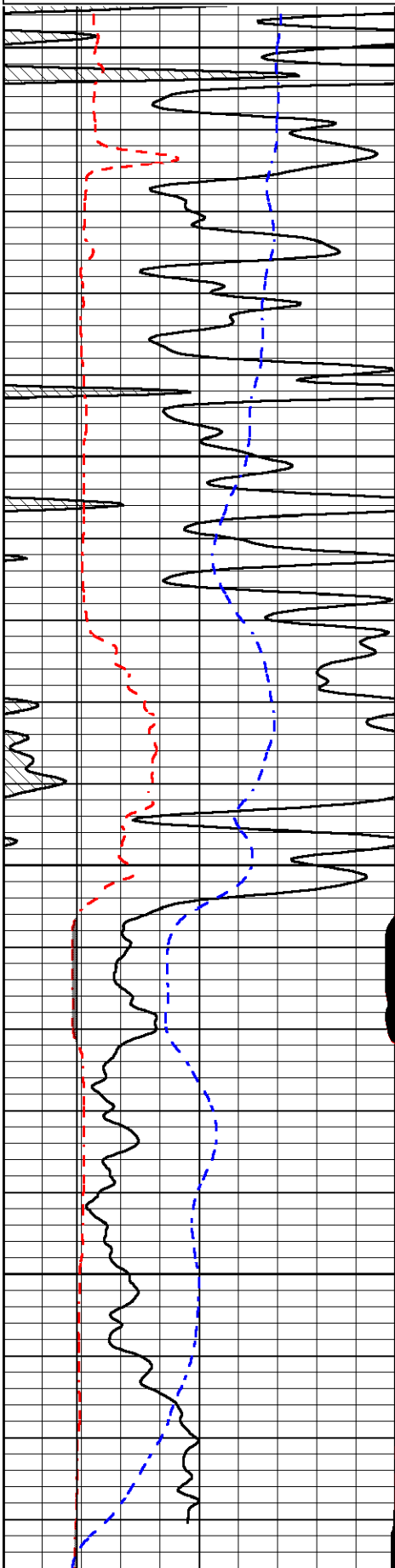


REPEAT SECTION

Database File concorde_mcdaniel_5-12.db
 Dataset Pathname STKML/pass2.3
 Presentation Format micro
 Dataset Creation Mon Sep 19 16:03:16 2016
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcals (in)	7.875
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
10000	Line Weight (lb)	0

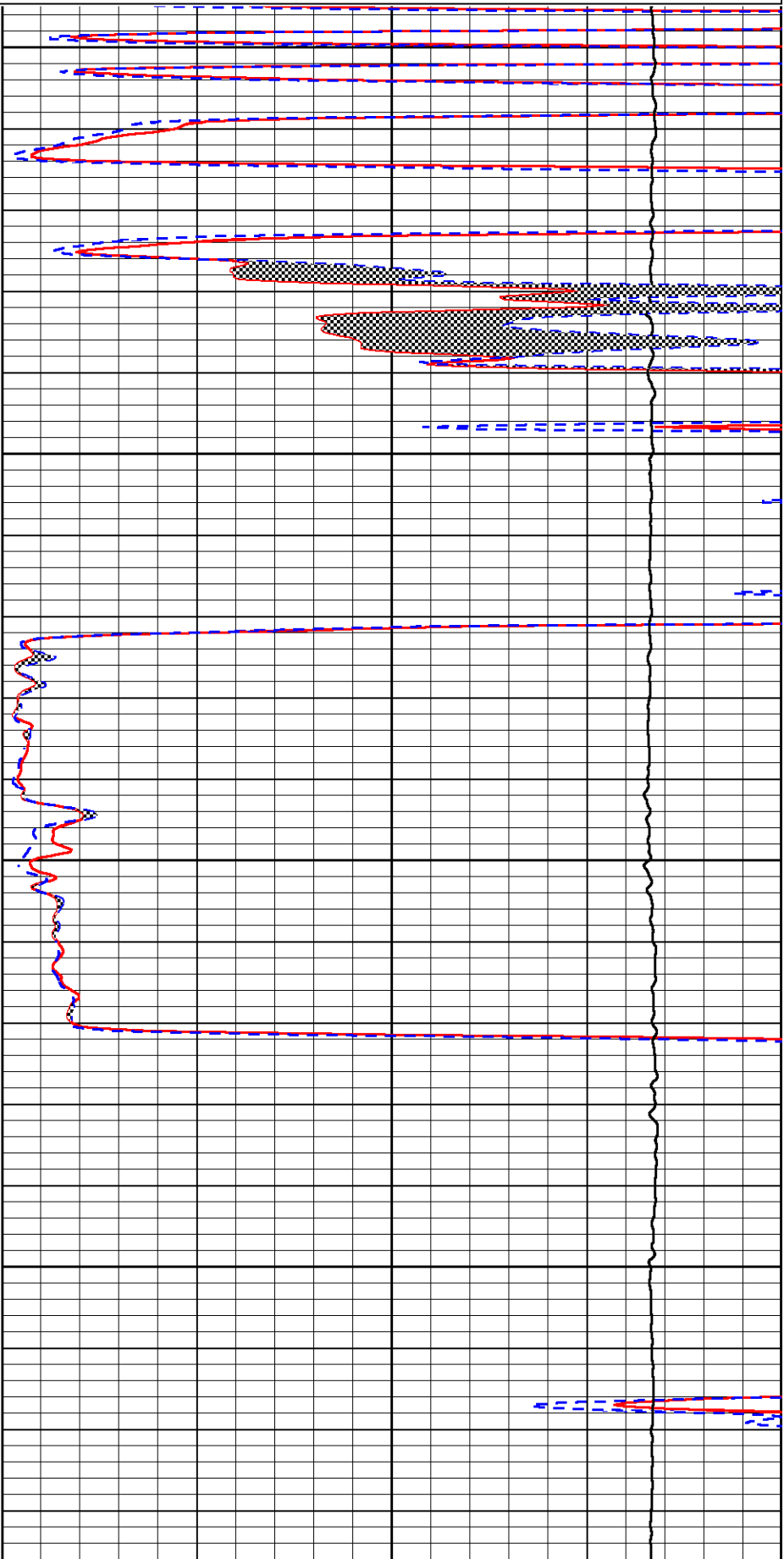


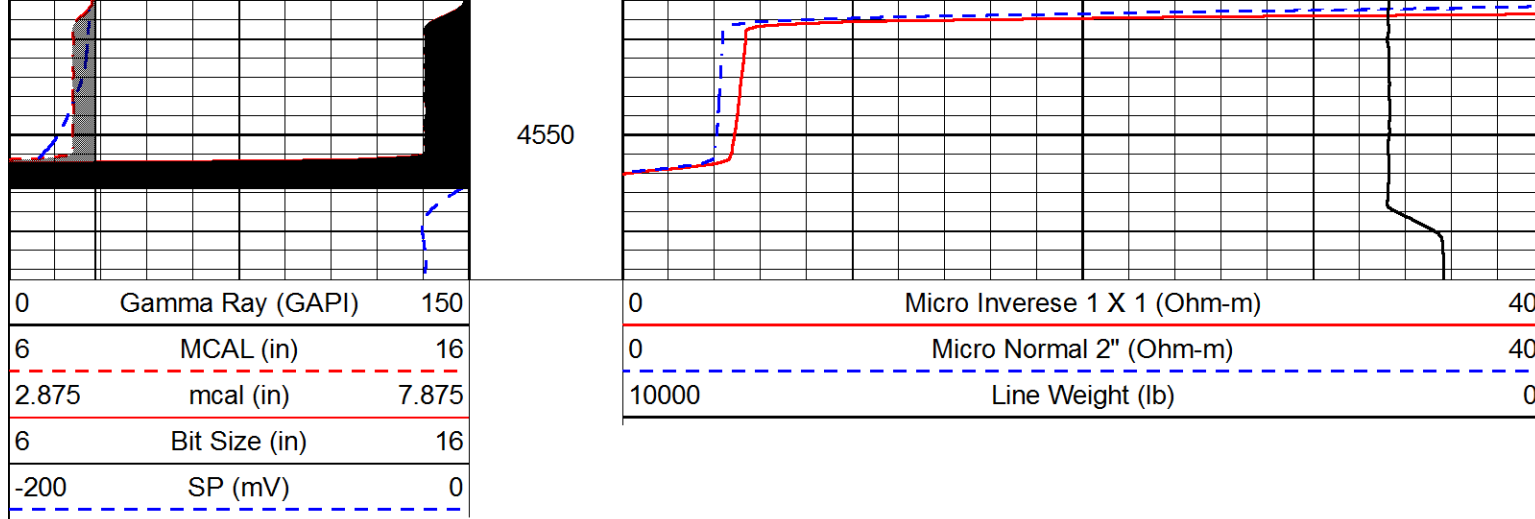
4350

4400

4450

4500





Calibration Report							
Database File	concorde_mcdaniel_5-12.db						
Dataset Pathname	STKML/pass3.7						
Dataset Creation	Mon Sep 19 15:44:20 2016						
Dual Induction Calibration Report							
Serial-Model:				PSI 216 HT-PSI HIGH TEMP			
Calibration Performed:				Mon Sep 19 14:37:33 2016			
Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	75.411	495.929	4.000	250.000	mmho/m	0.420	-26.000
Medium	75.269	470.661	0.000	250.000	mmho/m	0.360	-23.500
Microlog Calibration Report							
Serial-Model:				PSI-01-PSIML			
Performed:				Mon Sep 19 14:51:42 2016			
	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	39000.0000	-1.6000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	42000.0000	-1.1000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.7000
Compensated Density Calibration Report							
Serial-Model:				90-1031-M&W			
Source / Verifier:				16955B / 2ci			
Master Calibration Performed:				Wed Aug 24 22:26:37 2016			

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5174.18	6425.27	cps
Aluminum	2.665	g/cc	963.17	4037.42	cps
Spine Angle = 74.55			Density/Spine Ratio = 0.522		

	Size		Reading
Small Ring	6.00	in	1.83
Large Ring	16.00	in	1.48

Compensated Neutron Calibration Report
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Serial Number:	207-MW
Tool Model:	M&W
Calibration Performed:	Wed Aug 31 10:30:30 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	
Tool Model:	M&W	
Calibration Performed:	Wed Aug 24 22:26:53 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

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