



MIDWEST WIRELINE

RADIATION GUARD
LOG

Company Berexco LLC		Well Arnold Unit #16-1		Field Arroyo Northeast		County Stanton		State Kansas	
Location:		API #: 15-187-21364-00-00		Other Services					
Well		SW/SE SW/SE		CNL/CDL					
Field		132 FSL & 1874 FEL		DIL/MEL					
County		SEC 1 TWP 29S RGE 41W		BHCS					
Stanton		Ground Level		Elevation 3340					
Kans		Kelly Bushing		K.B. 3353					
		Kelly Bushing		D.F. 3340					
Permanent Datum		Ground Level		Elevation 3340					
Log Measured From		Kelly Bushing		K.B. 3353					
Drilling Measured From		Kelly Bushing		D.F. 3340					
Date		7/12/2026							
Run Number		One							
Depth Driller		5600							
Depth Logger		5601							
Bottom Logged Interval		5600							
Top Log Interval		3400							
Casing Driller		8625 @ 1732							
Casing Logger		1719							
Bit Size		7.875							
Type Fluid in Hole		Chemical							
Salinity, ppm CL		2000							
Density / Viscosity		8.8 59							
pH / Fluid Loss		9.0 9.5							
Source of Sample		FLOWLINE							
Rm @ Meas. Temp		0.90 @ 80							
Rmt @ Meas. Temp		0.68 @ 80							
Rmc @ Meas. Temp		1.22 @ 80							
Source of Rmt / Rmc		CHARTS							
Rm @ BHT		0.55 @ 132							
Operating Rig Time		5 Hours							
Max Rec. Temp. F		132							
Equipment Number		110							
Location		HAYS							
Recorded By		D. Schmidt							
Witnessed By		Macklin Armstrong							

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

Johnson City,
South on Hwy 27 to Rd 14, 2/3 East,
North into

Log Measured From: Kelly Bushing

13 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Macklin Armstrong
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\berexco_arnold unit 16-1.db
Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 132	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0	SNDERRM mmho/m 0	SPSHIFT mV 160	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 5601		

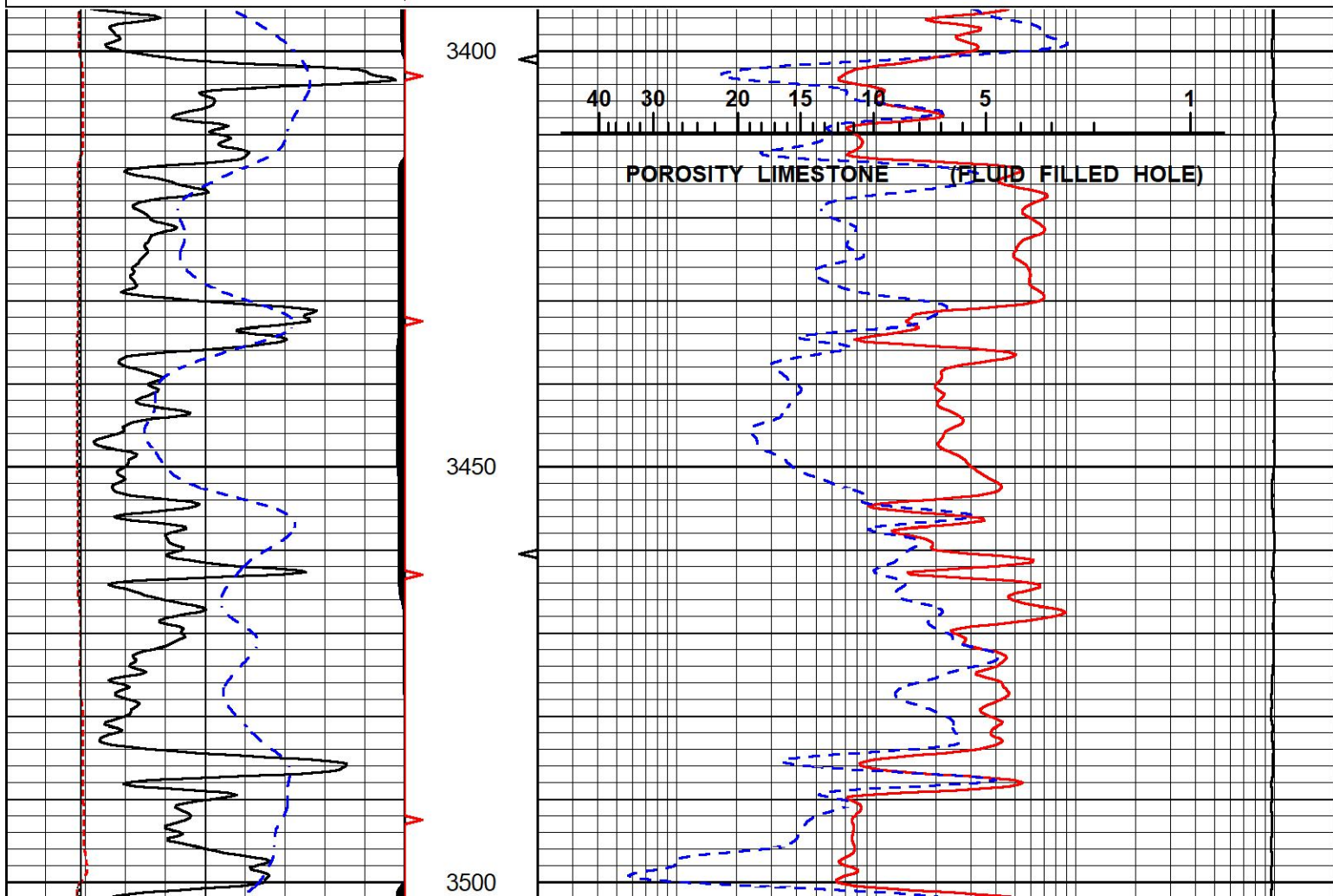


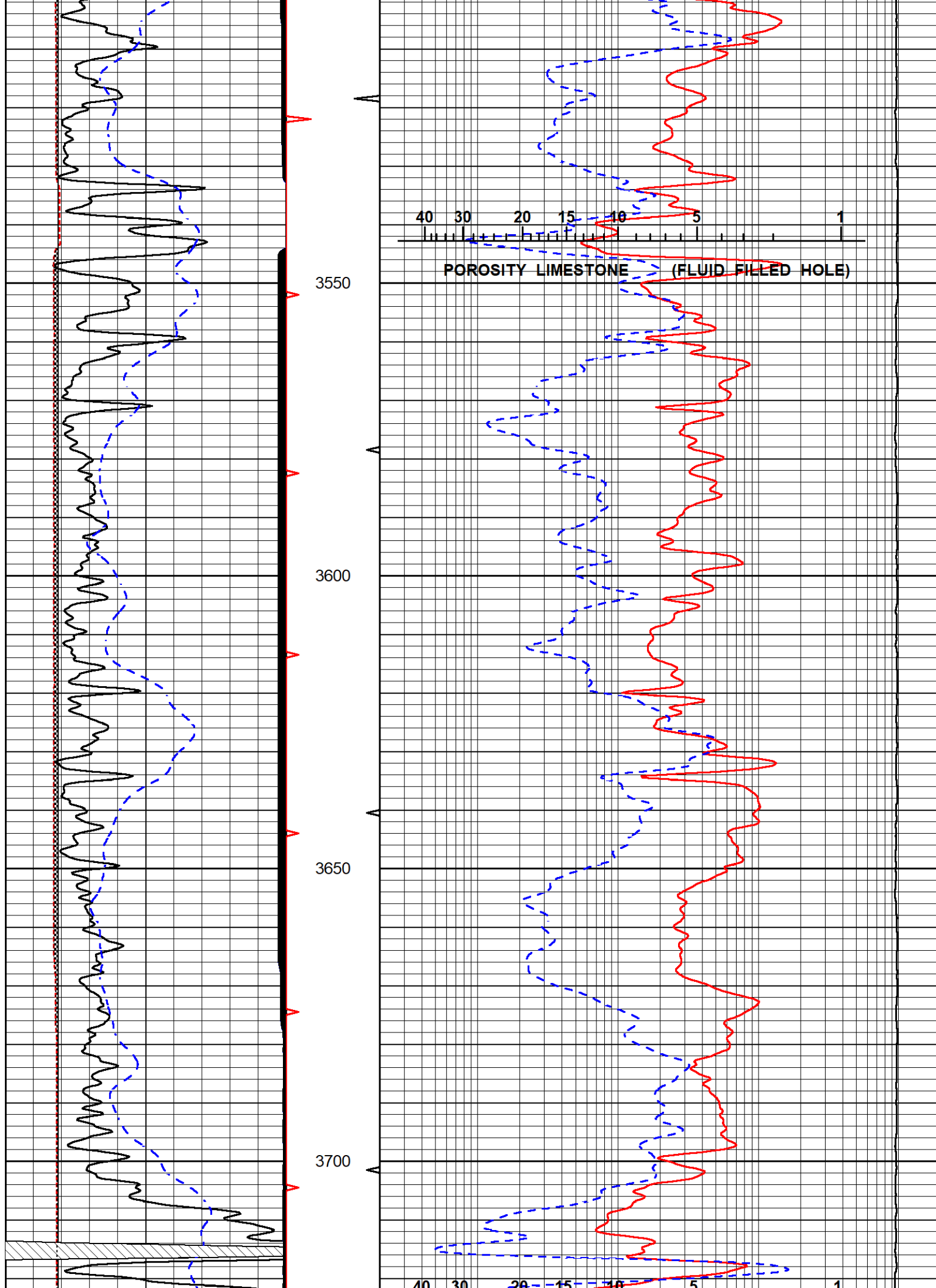
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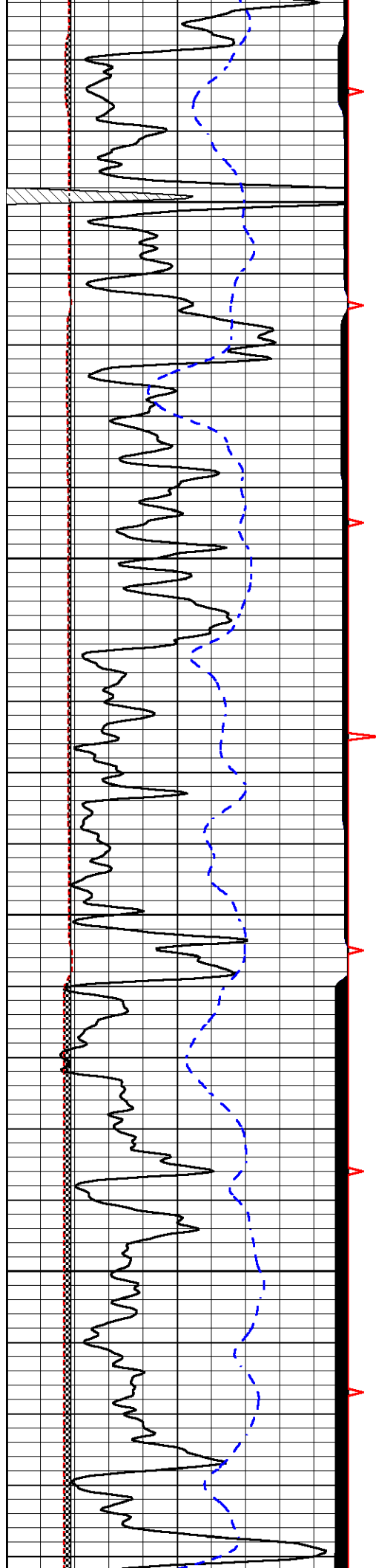
MAIN PASS

Database File berexco_arnold unit 16-1.db
Dataset Pathname stack/pass3.1
Presentation Format ragcnl
Dataset Creation Wed Jul 08 01:57:30 2026
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Shallow Guard (Ohm-m)	2000
6	LCAL (in)	16	10500	CNSSC (cps)	28500
6	Bit Size	16	15000	Line Tension (lb)	0
-200	SP (mV)	0			





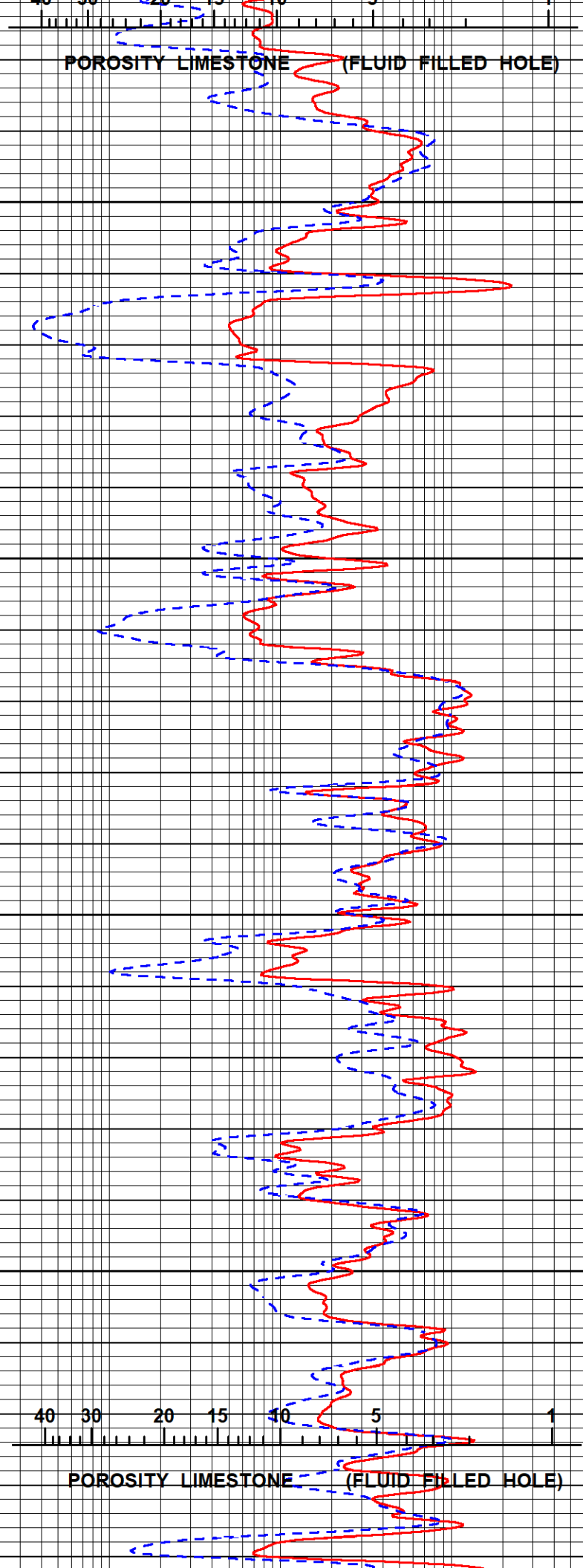


3750

3800

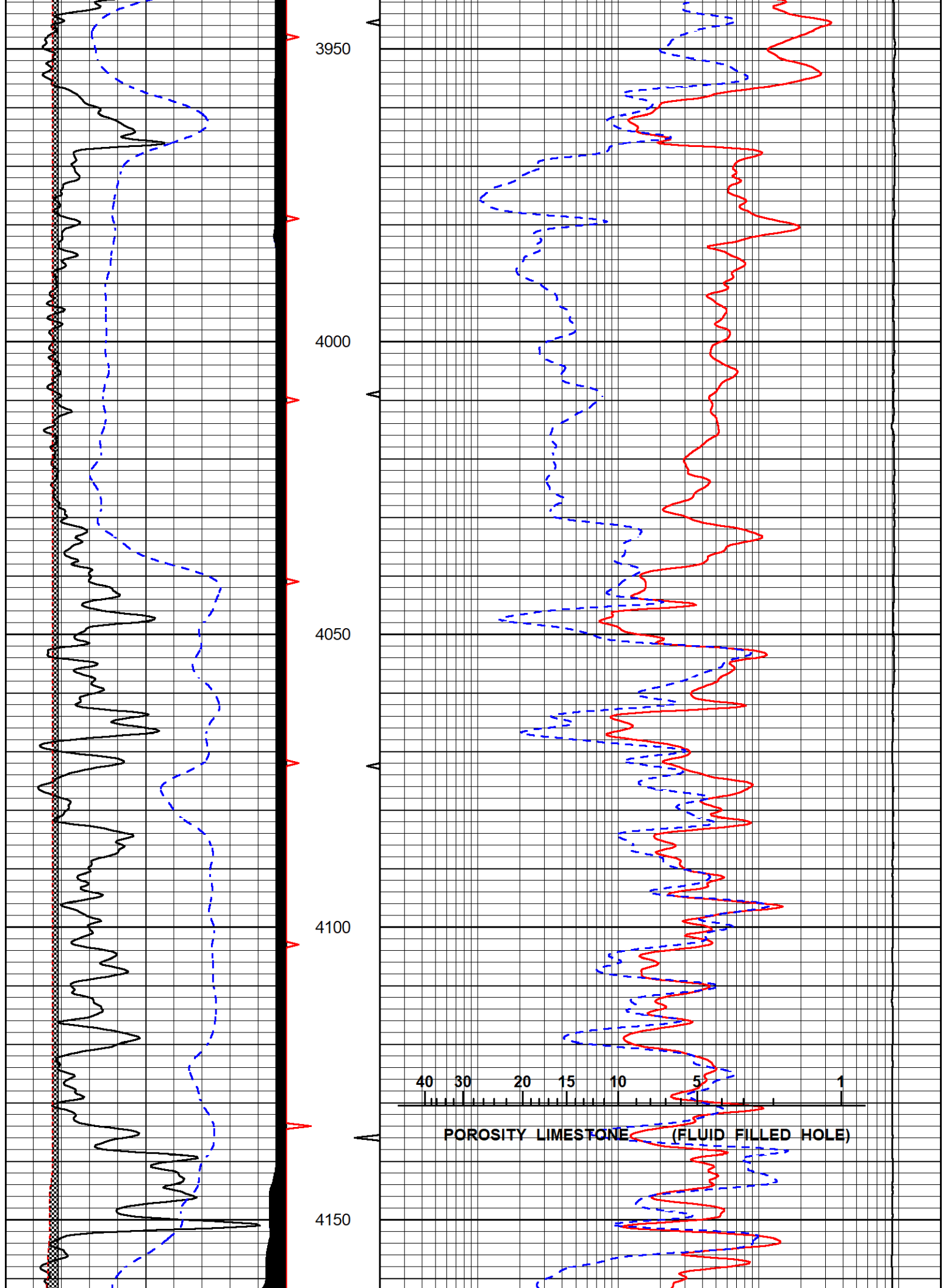
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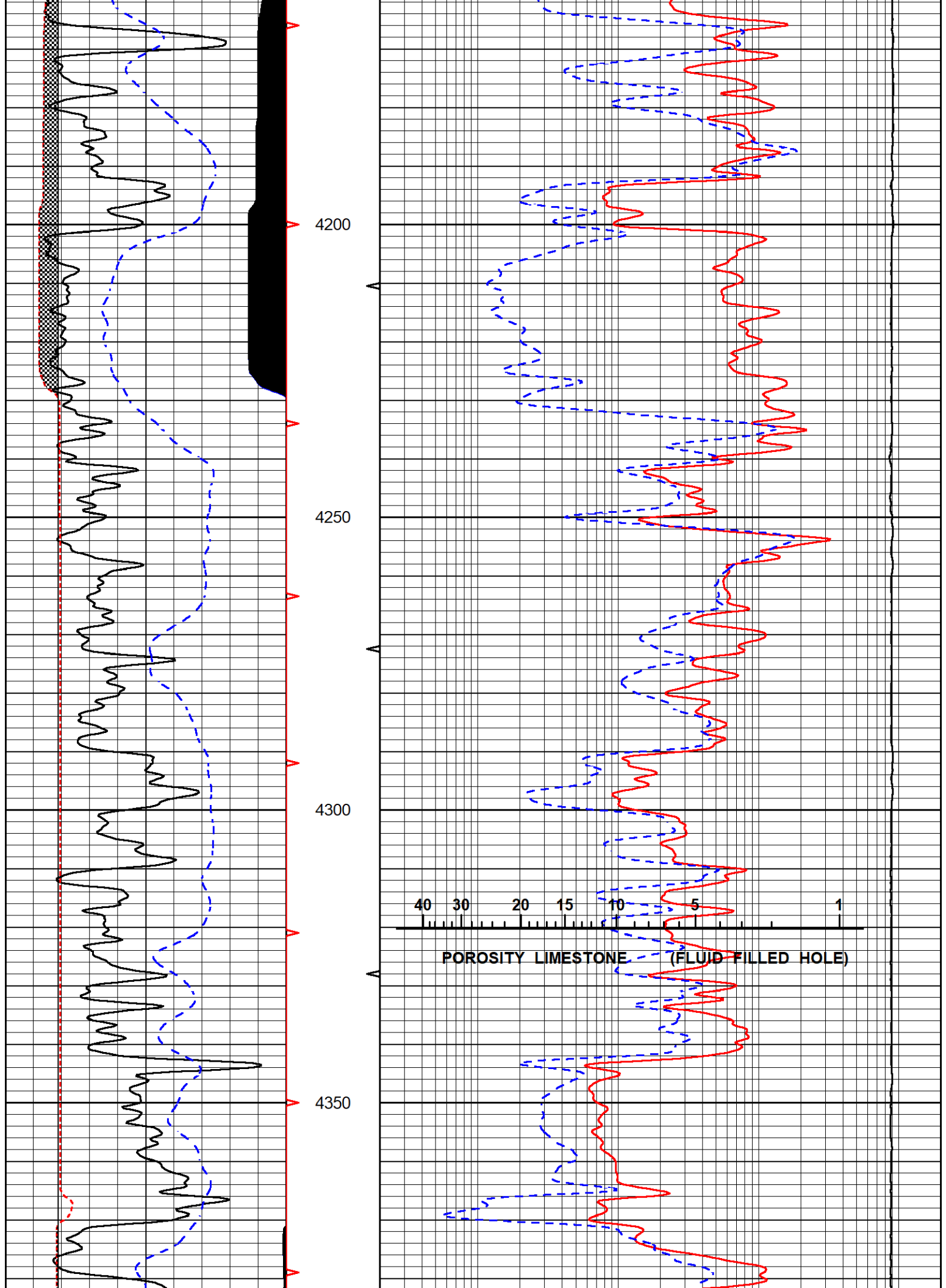
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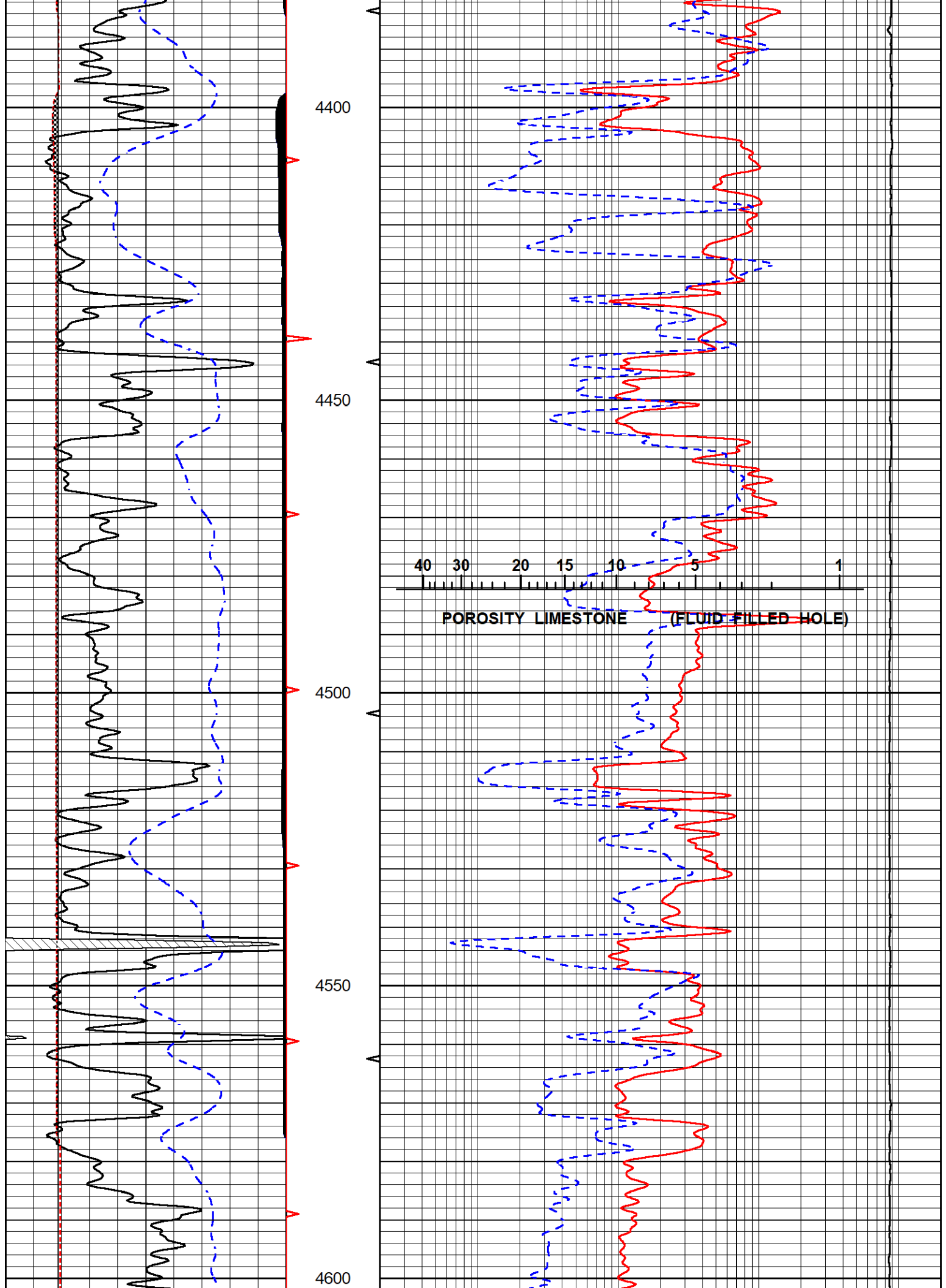


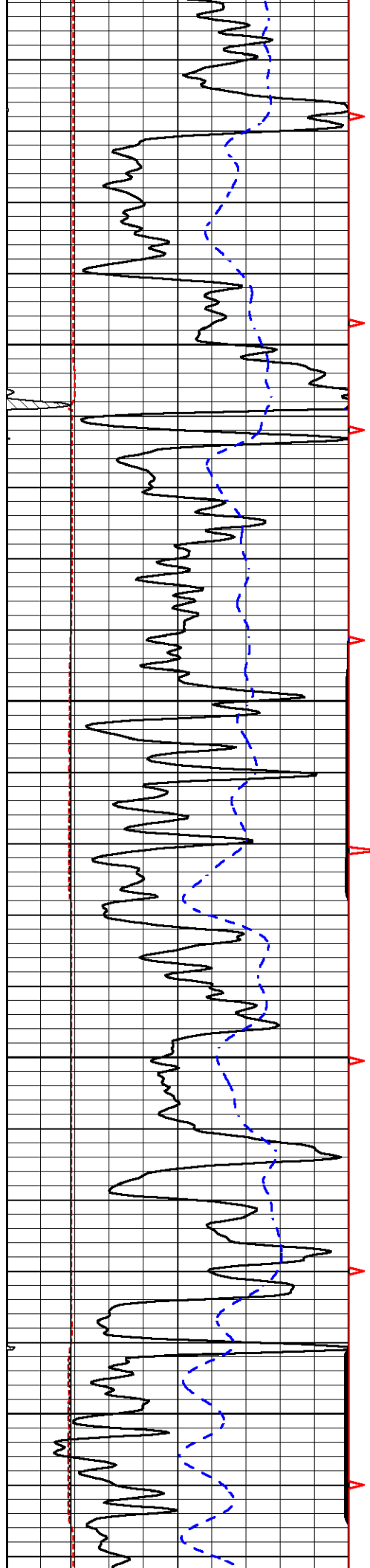
POROSITY LIMESTONE (FLUID FILLED HOLE)

POROSITY LIMESTONE (FLUID FILLED HOLE)







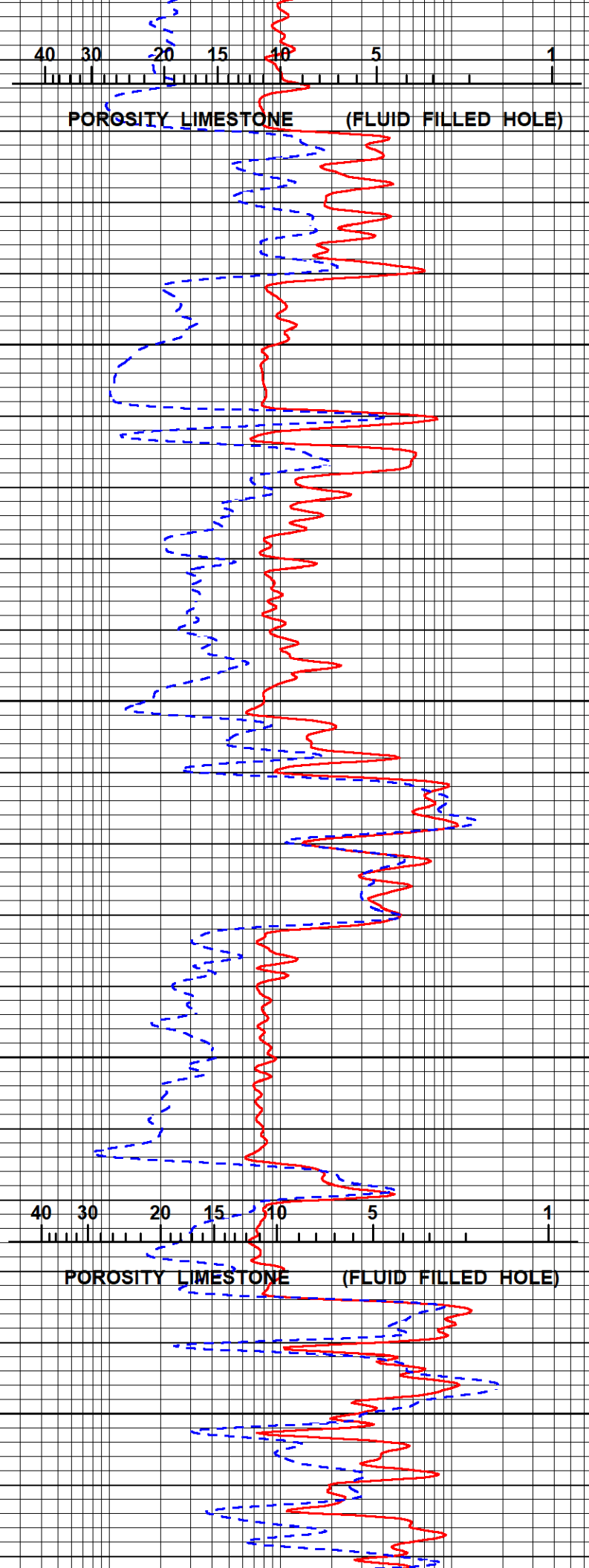


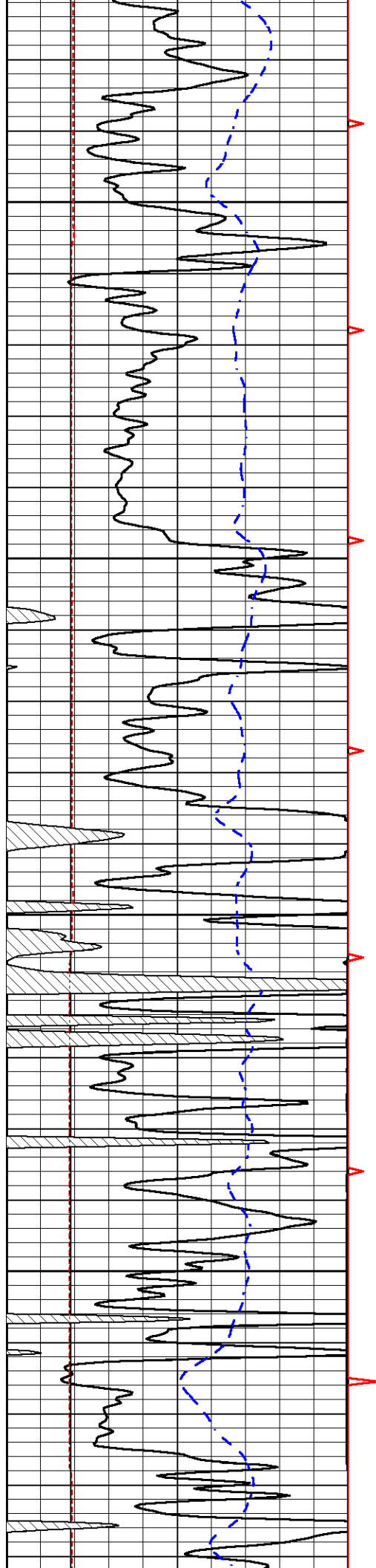
4650

4700

4750

4800



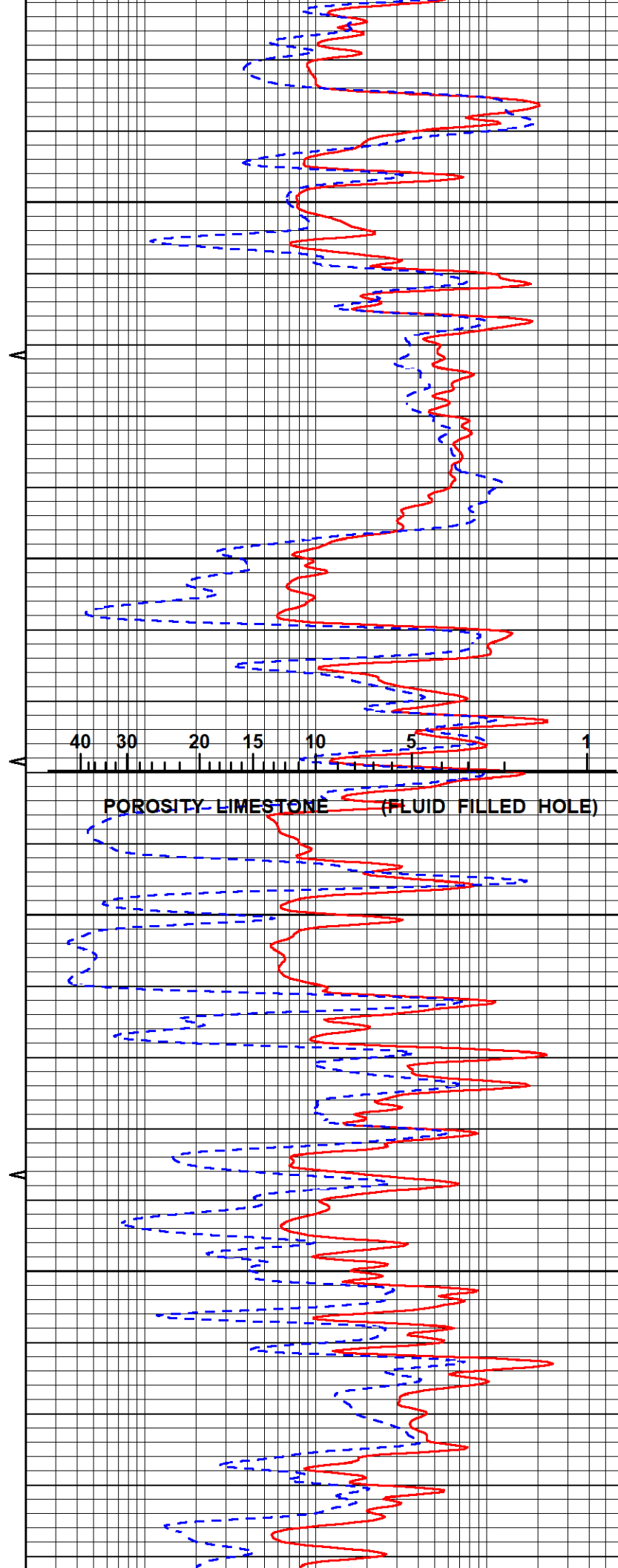


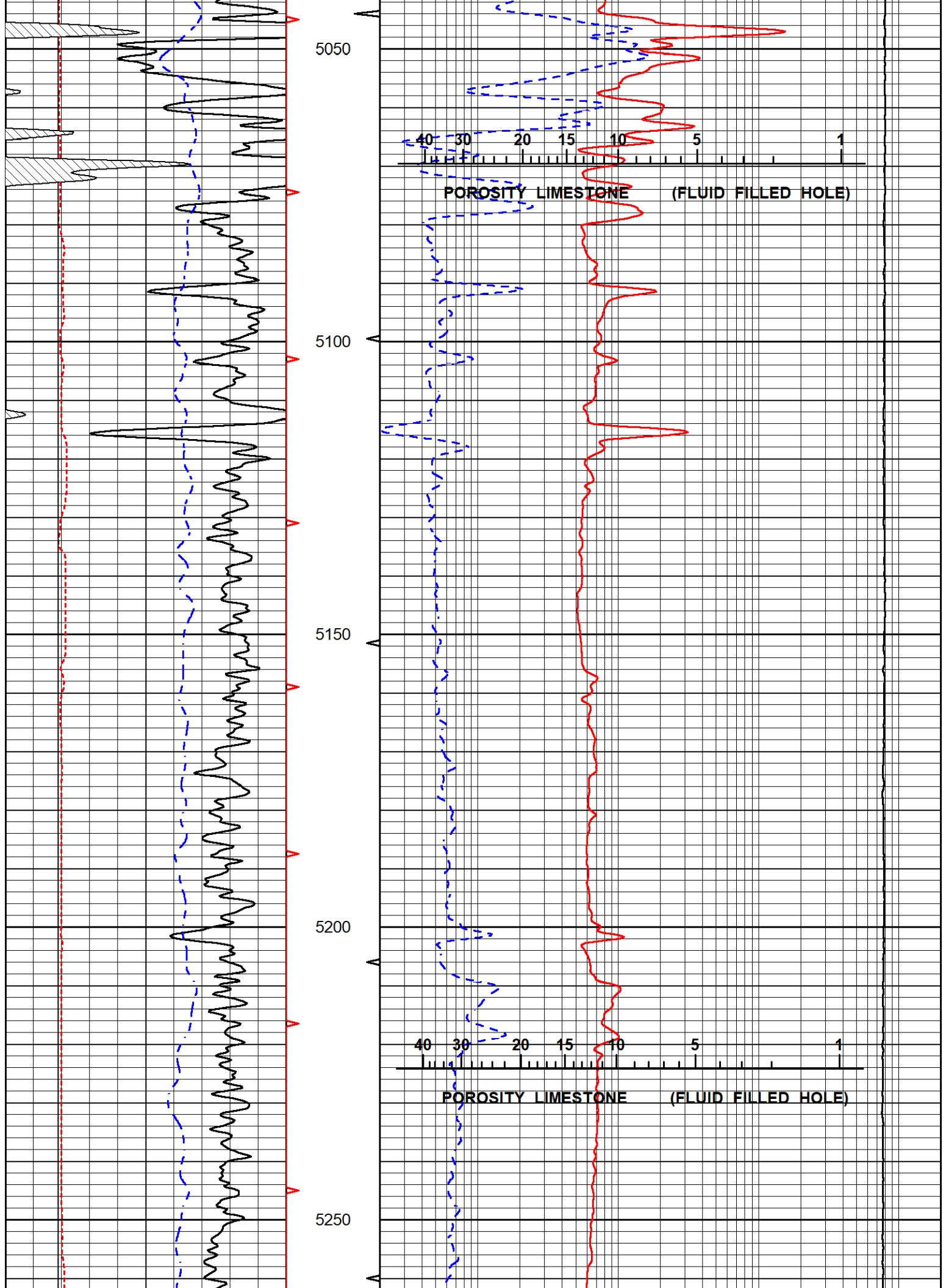
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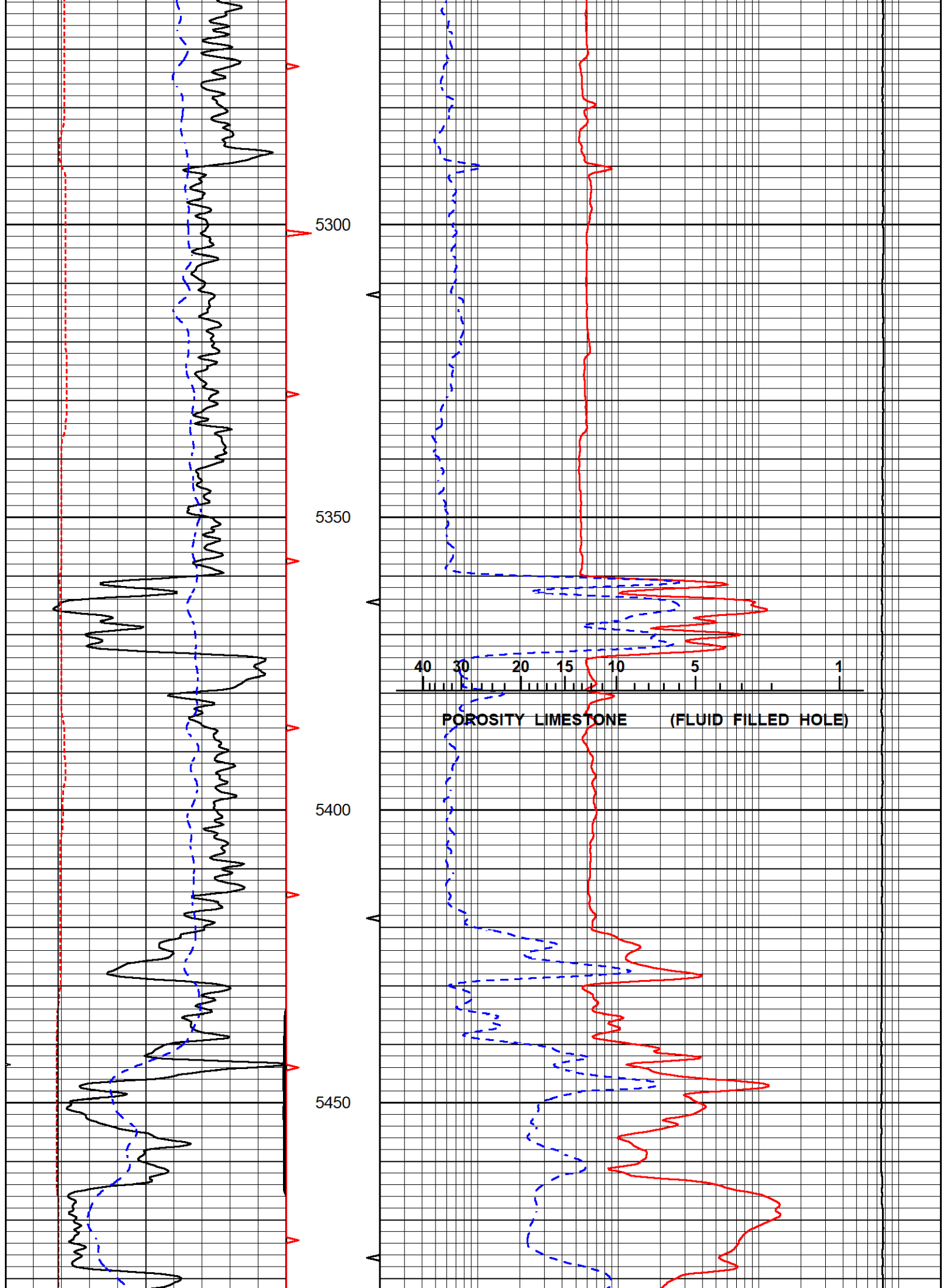
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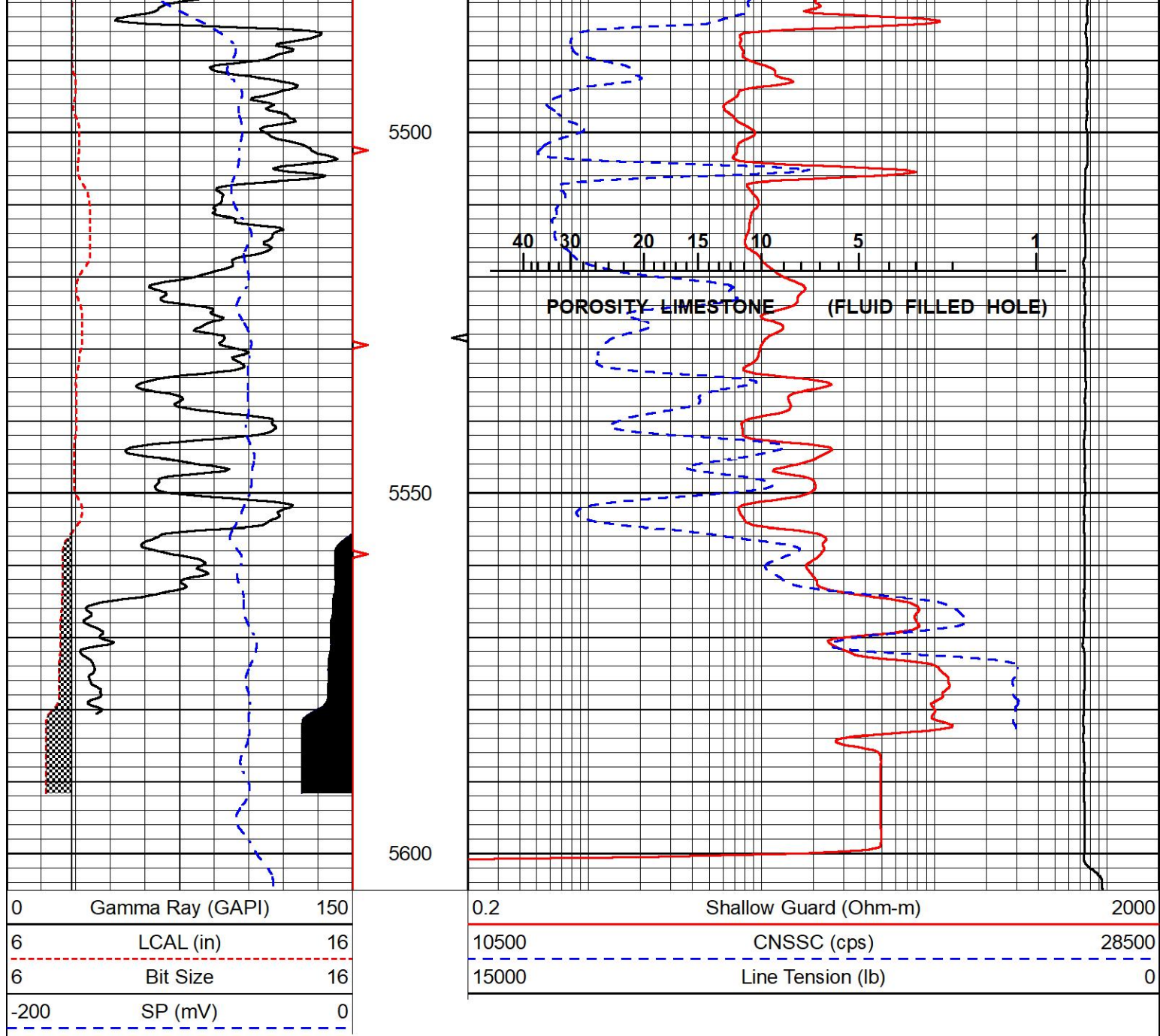
4950

5000









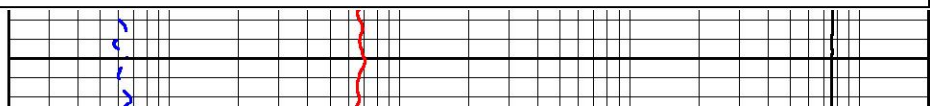
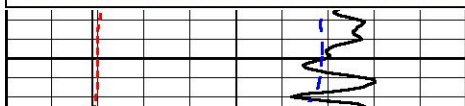
REPEAT SECTION

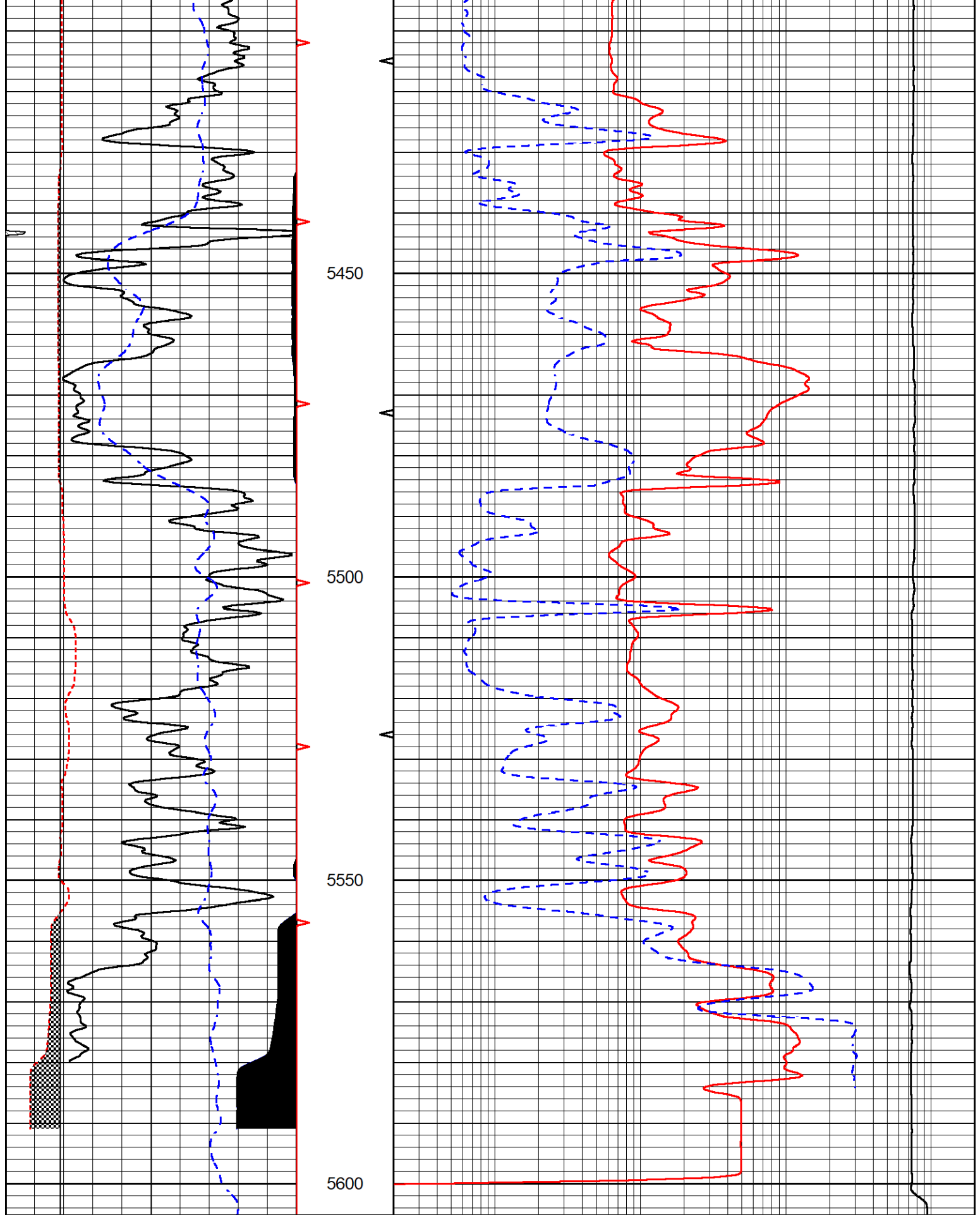
REPEAT PASS

Database File berexco_arnold unit 16-1.db
 Dataset Pathname stack/pass2.1
 Presentation Format ragcnl
 Dataset Creation Wed Jul 08 01:14:30 2026
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	LCAL (in)	16
6	Bit Size	16
-200	SP (mV)	0

0.2	Shallow Guard (Ohm-m)	2000
10500	CNSSC (cps)	28500
15000	Line Tension (lb)	0





0	Gamma Ray (GAPI)	150
6	LCAL (in)	16
6	Bit Size	16
-200	SP (mV)	0

0.2	Shallow Guard (Ohm-m)	2000
10500	CNSSC (cps)	28500
15000	Line Tension (lb)	0

Database File		berexco_arnold unit 16-1.db	Calibration Report
Dataset Pathname		stack/pass3.1	
Dataset Creation		Wed Jul 08 01:57:30 2026	

Database File		berexco_arnold unit 16-1.db	Calibration Report
Dataset Pathname		stack/pass3.1	
Dataset Creation		Wed Jul 08 01:57:30 2026	

Dual Induction Calibration Report

Serial-Model:	506-M&W
Surface Cal Performed:	Wed Jun 24 17:13:14 2026

		Readings		References		Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	84.211	428.152	0.000	255.800	mmho/m	0.590	-39.000
Medium	141.000	670.654	0.000	255.800	mmho/m	0.490	-23.000

LITHODENSITY Calibration Report

Serial Number:	701-03
Tool Model:	STEP LITHO Short
Performed:	Tue Sep 23 11:08:22 2025

Source:

	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	56	59	219	268	24	71	46	1	cps
LS:	78	88	333	431	50	131	87	4	cps
Aluminum:									
SS:	1019	1215	2861	2617	50	77	49	3	cps
LS:	1263	2145	3830	1712	72	136	59	4	cps
Magnesium:									
SS:	1699	1990	4685	3819	56	78	46	4	cps
LS:	4984	8437	15068	6103	123	112	86	24	cps
Aluminum+Iron:									
SS:	655	863	2400	2274	45	78	49	3	cps
LS:	711	1512	3267	1588	59	132	86	6	cps

	Density			PE		
	Actual	Calibrated		Actual	Calibrated	Quality
Background:						
SS:						0.213
LS:						0.202
Aluminum:						
SS:	2.6000	2.6000	g/cc			0.219
LS:	2.6000	2.6000	g/cc			0.395
Magnesium:						
SS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.255
LS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.131
Aluminum+Iron:						
SS:					6.1800	0.229
LS:					6.1800	0.212

Caliper:	Reference:	Reading:
Small Ring:	6.0 in	0.2
Large Ring:	17.5 in	0.8
Gain:	18.284	
Offset:	0.150	

Compensated Neutron Calibration Report

Serial Number: 210
Tool Model: M&W

CALIBRATION

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: 105
Tool Model: M&W
Performed: Tue Aug 26 12:59:12 2025

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps
Calibrator Reading: 637.0 cps

Sensitivity: 0.6000 GAPI/cps



Company Berexco LLC
Well Arnold Unit #16-1
Field Arroyo Northeast
County Stanton
State Kansas