



PIONEER
Pioneer Energy Services

RADIATION GUARD LOG

Company **BENNETT & SCHULTE OIL CO.**
Well **KUHLMAN #14-1**
Field **N/A**
County **BARTON**
State **KANSAS**

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Well **KUHLMAN #14-1**
Field **N/A**
County **BARTON** State **KANSAS**

Location: API #: 15-009-26167-00-00

1055' FSL & 2193' FEL

SEC 14 TWP 18S RGE 15W

Permanent Datum **GROUND LEVEL** Elevation **1926'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 1932'
D.F. N/A
G.L. 1926'

Date **4/15/2017**

Run Number **ONE**

Depth Driller **3600'**

Depth Logger **3600'**

Bottom Logged Interval **3599'**

Top Log Interval **900'**

Casing Driller **8.625" @ 950'**

Casing Logger **948'**

Bit Size **7.875"**

Type Fluid in Hole **CHEMICAL**

Salinity, ppm CL **4000**

Density / Viscosity **9.5 52**

pH / Fluid Loss **9.5 10.2**

Source of Sample **FLOWLINE**

Rm @ Meas. Temp **0.55 @ 80**

Rmf @ Meas. Temp **0.41 @ 80**

Rmc @ Meas. Temp **0.74 @ 80**

Source of Rmf / Rmc **CHARTS**

Rm @ BHT **0.39 @ 112**

Operating Rig Time **3 HOURS**

Max Rec. Temp. F **112**

Equipment Number **91**

Location **COLBY**

Recorded By **D. SCHMIDT**

Witnessed By **BOB HOPKINS**

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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.

**OLMITZ,
2 1/2 SOUTH, 1/2 WEST,
NORTH INTO**

Log Measured From: KELLY BUSHING 6 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: **D. SCHMIDT**
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: **BOB HOPKINS**
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

SPSHIFT mV 10	AIR_HOLE? No	NPORSEL Limestone	MudWgt lb/gal 9.5	SRFTEMP degF 0	CASETHCK in 0	CASEOD in 5.5	PERFS 0
TDEPTH ft 0	BOTTEMP degF 100	BOREID in 7.875					

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	15.00		GR-M&W (89)	3.00	3.50	50.00
			LGRD-M&W (177) Simlec Long Guard	4.00	3.50	40.00
LGRD	11.00					
SCAL	5.10		SWN-M&W-SP (SP162-87)	10.50	4.00	190.00
SWN	4.45					

SP

0.20

Dataset: bennet schulte_kuhlman_14-1.db: field/well/RAG/pass3.4
Total length: 17.50 ft
Total weight: 280.00 lb
O.D.: 4.00 in



MAIN PASS

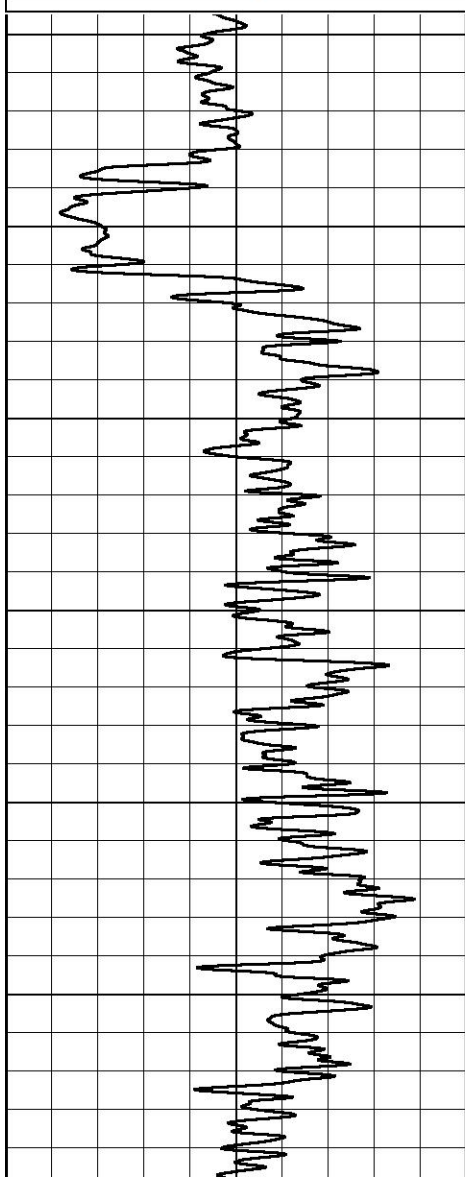
Database File bennet schulte_kuhlman_14-1.db
Dataset Pathname RAG/pass3.1
Presentation Format rag2in
Dataset Creation Sat Apr 15 16:50:57 2017
Charted by Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

0.2

lgd (Ohm-m)

2000



900

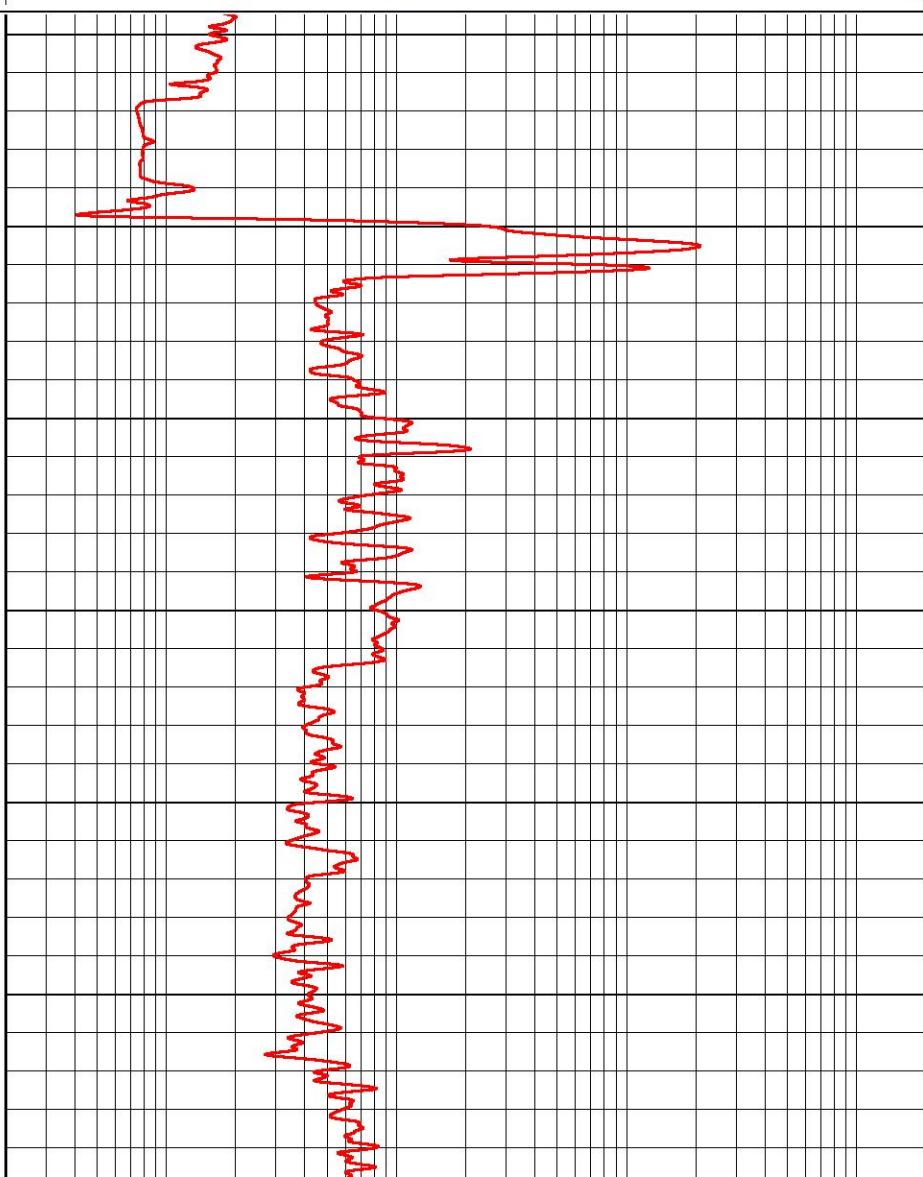
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1000

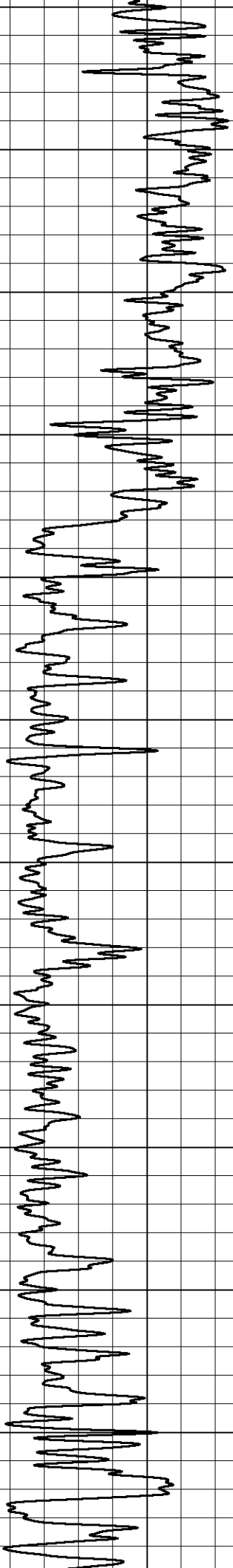
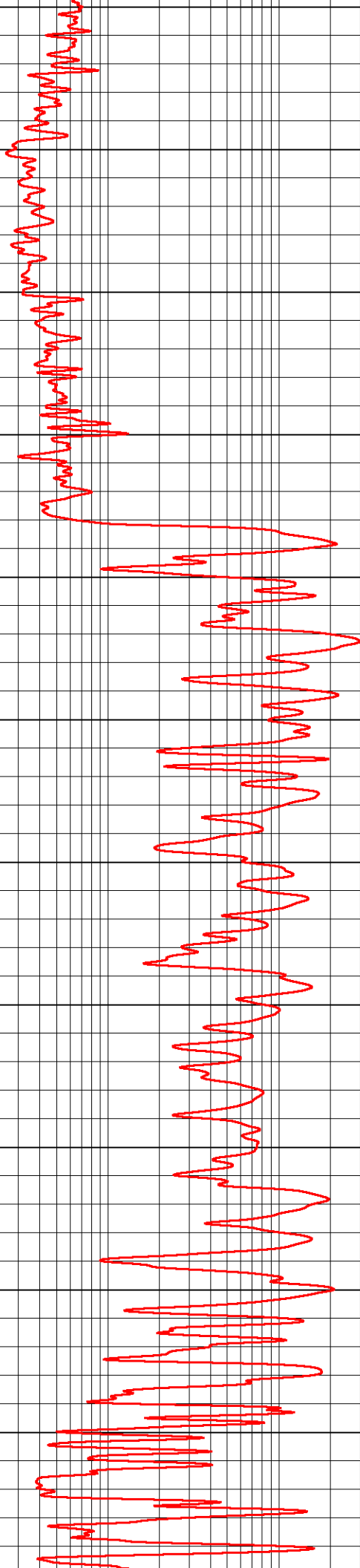
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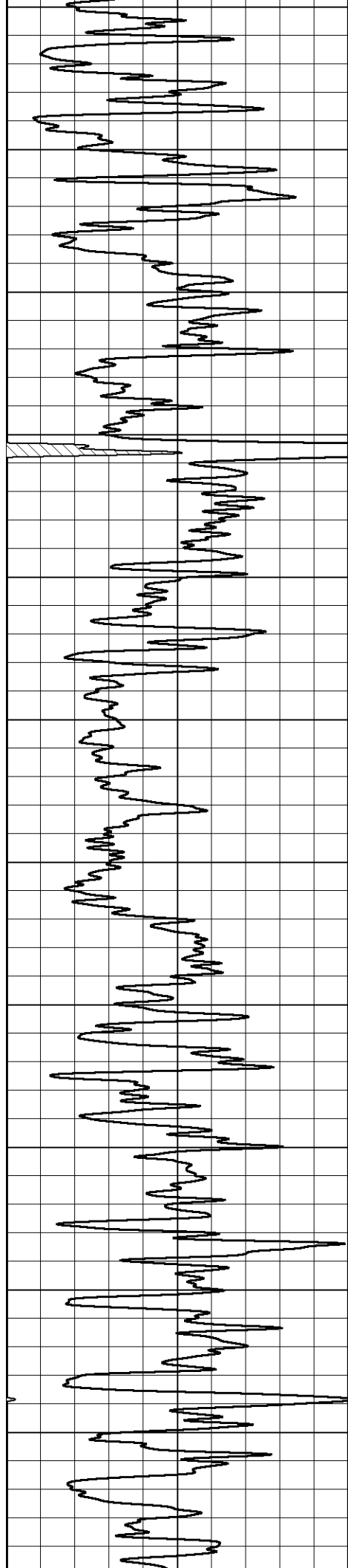
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1150

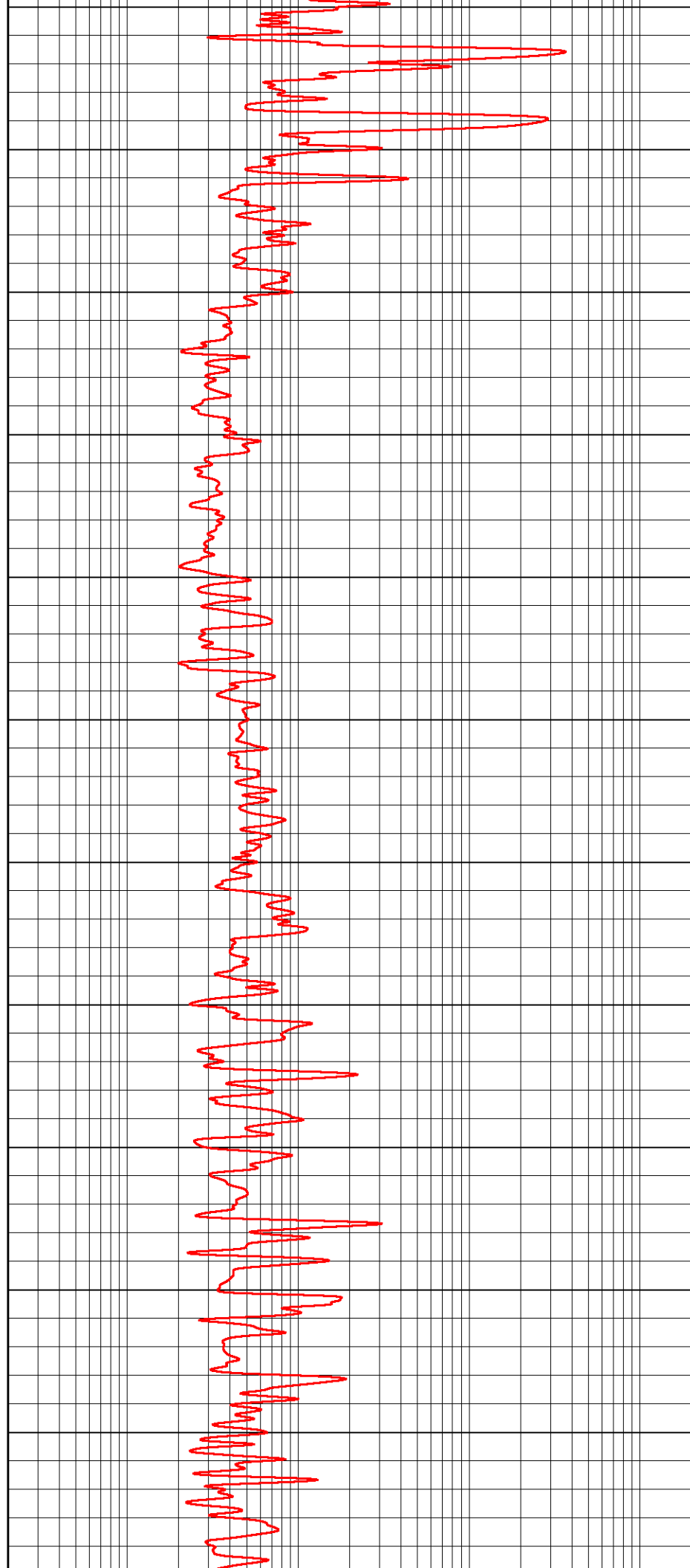


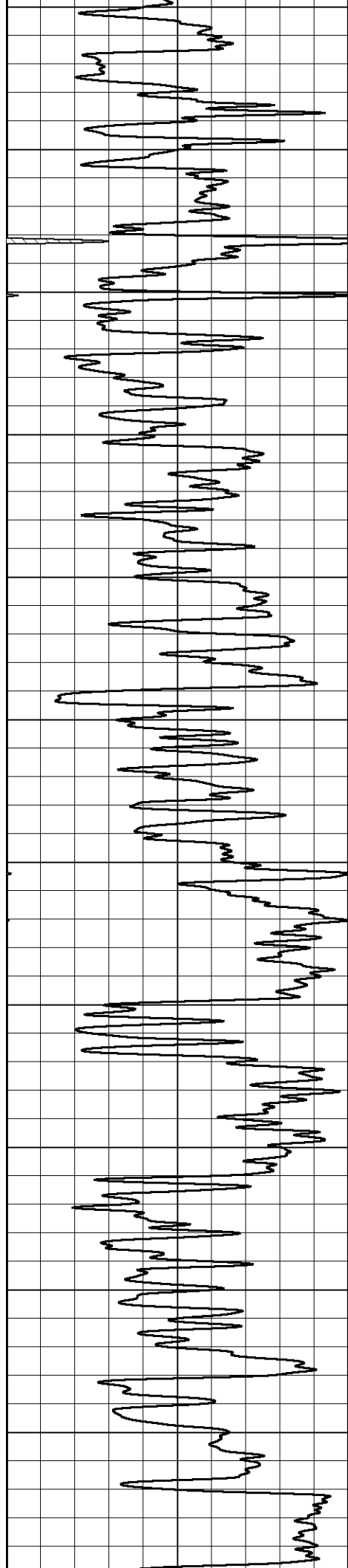
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1400
1450
1500
1550
1600
1650
1700



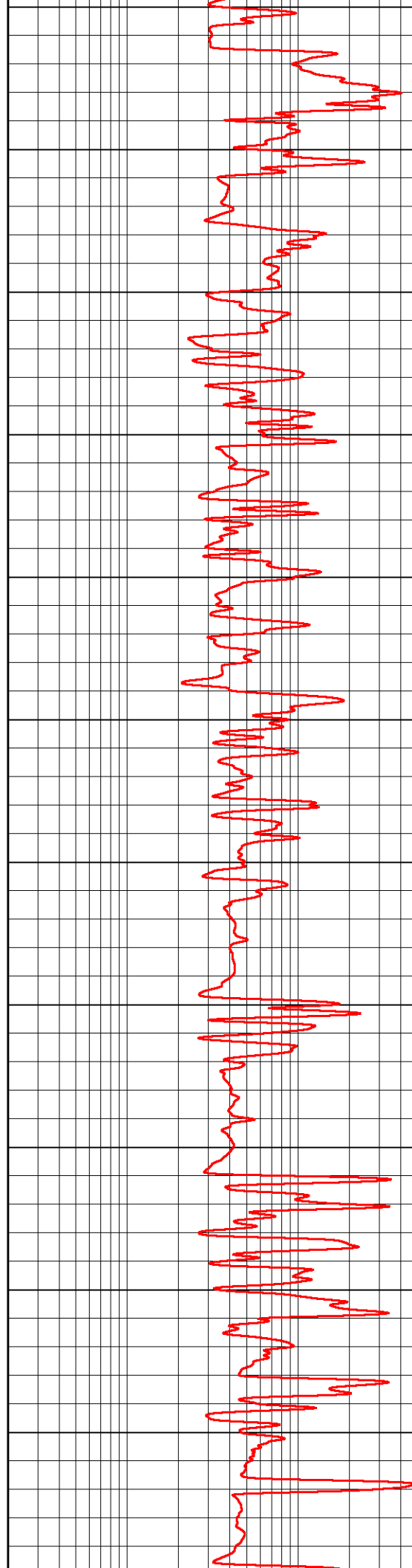


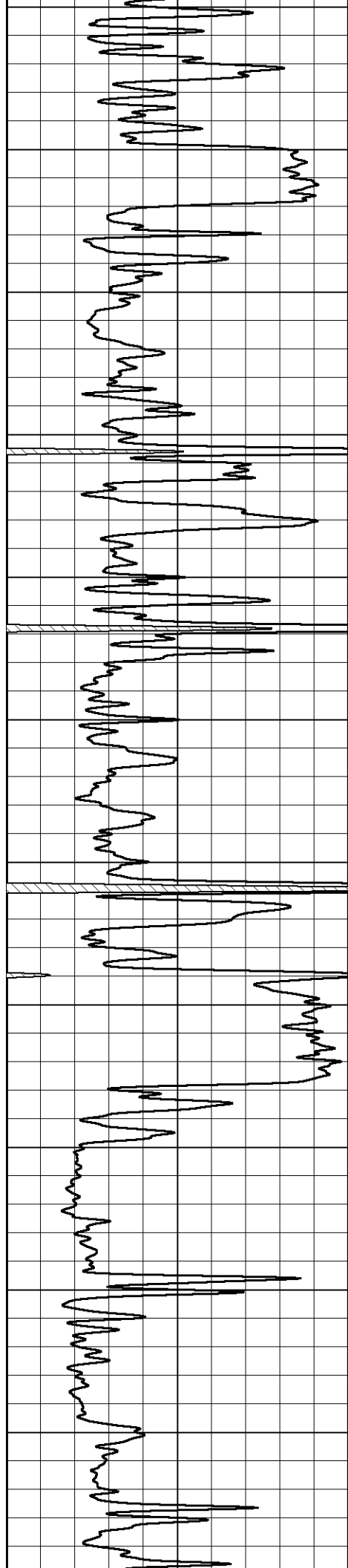
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1900
1950
2000
2050
2100
2150
2200
2250



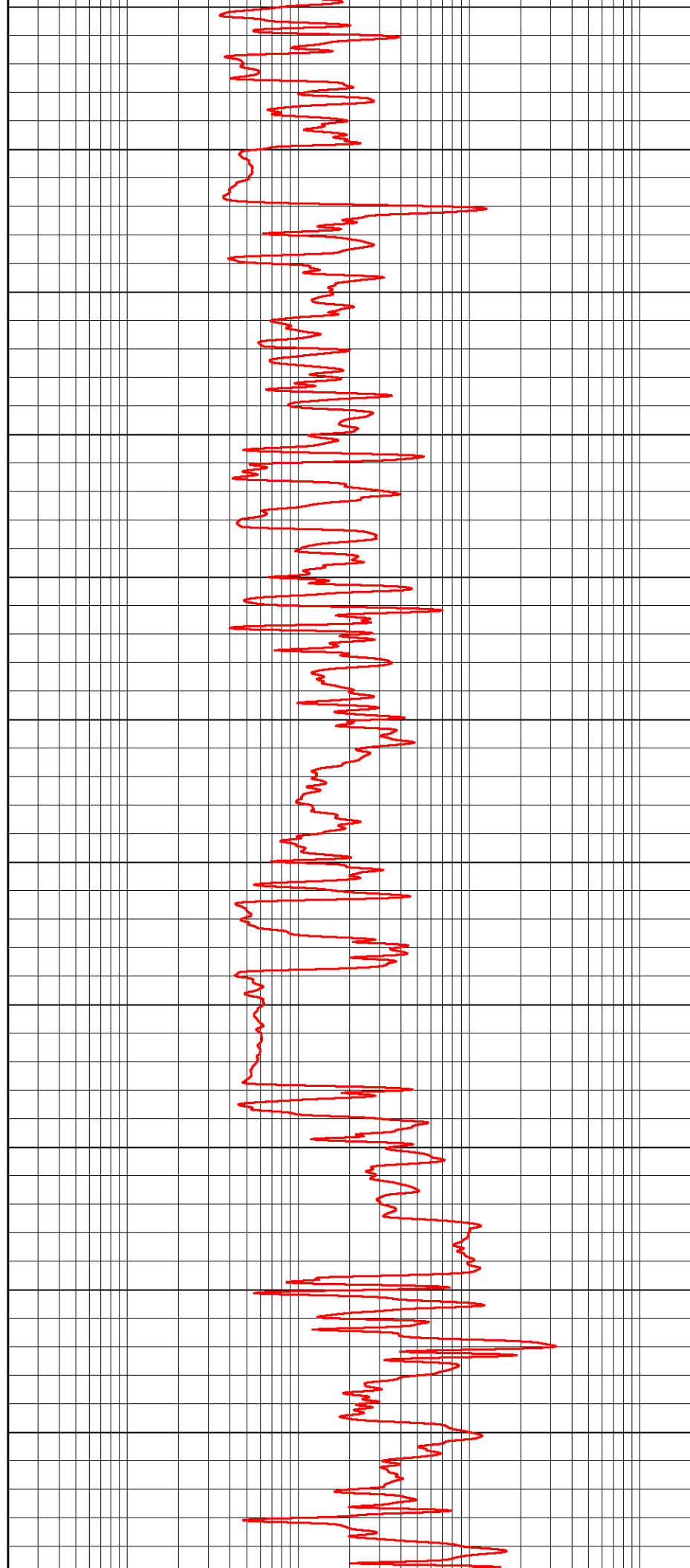


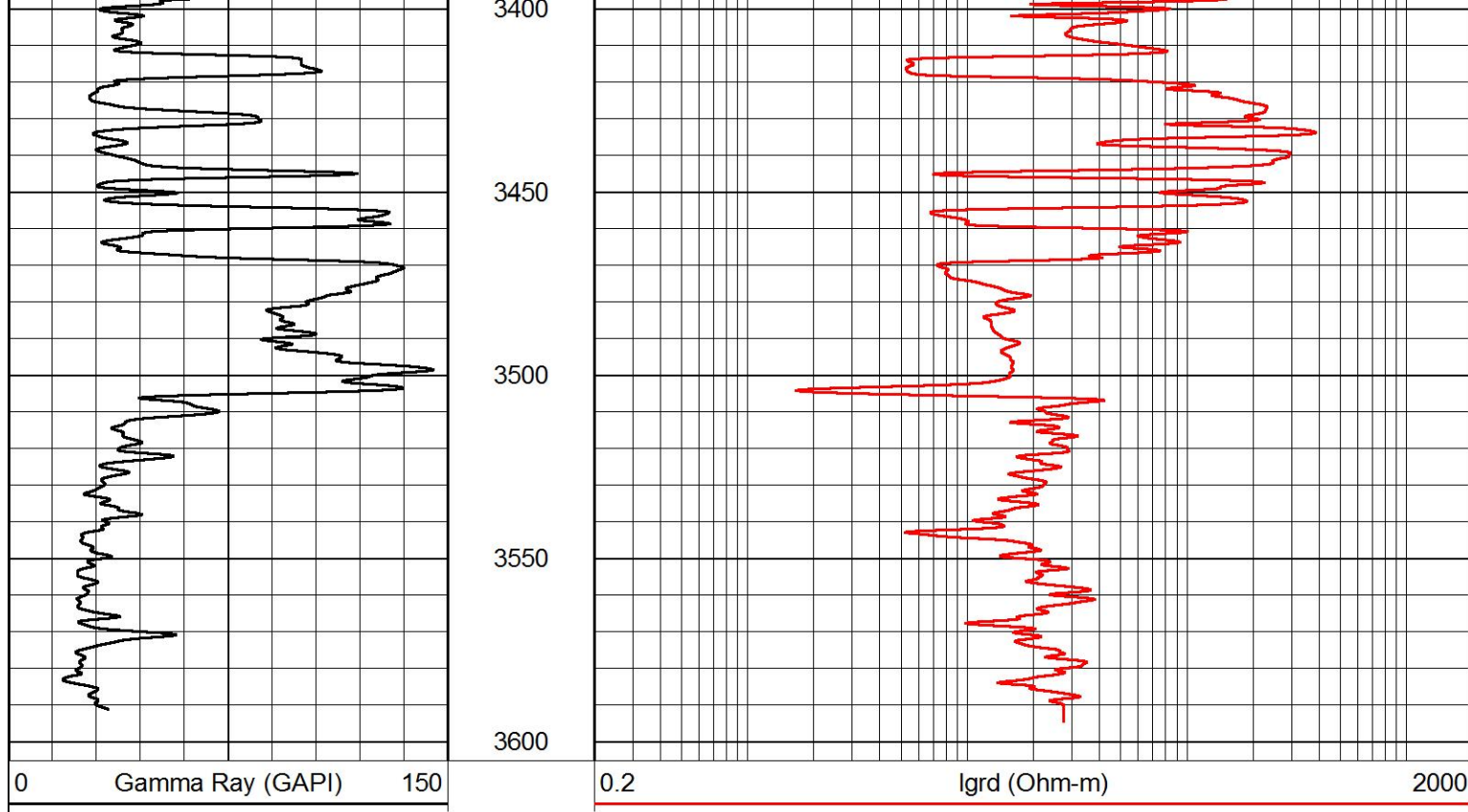
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2500
2550
2600
2650
2700
2750
2800





2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350

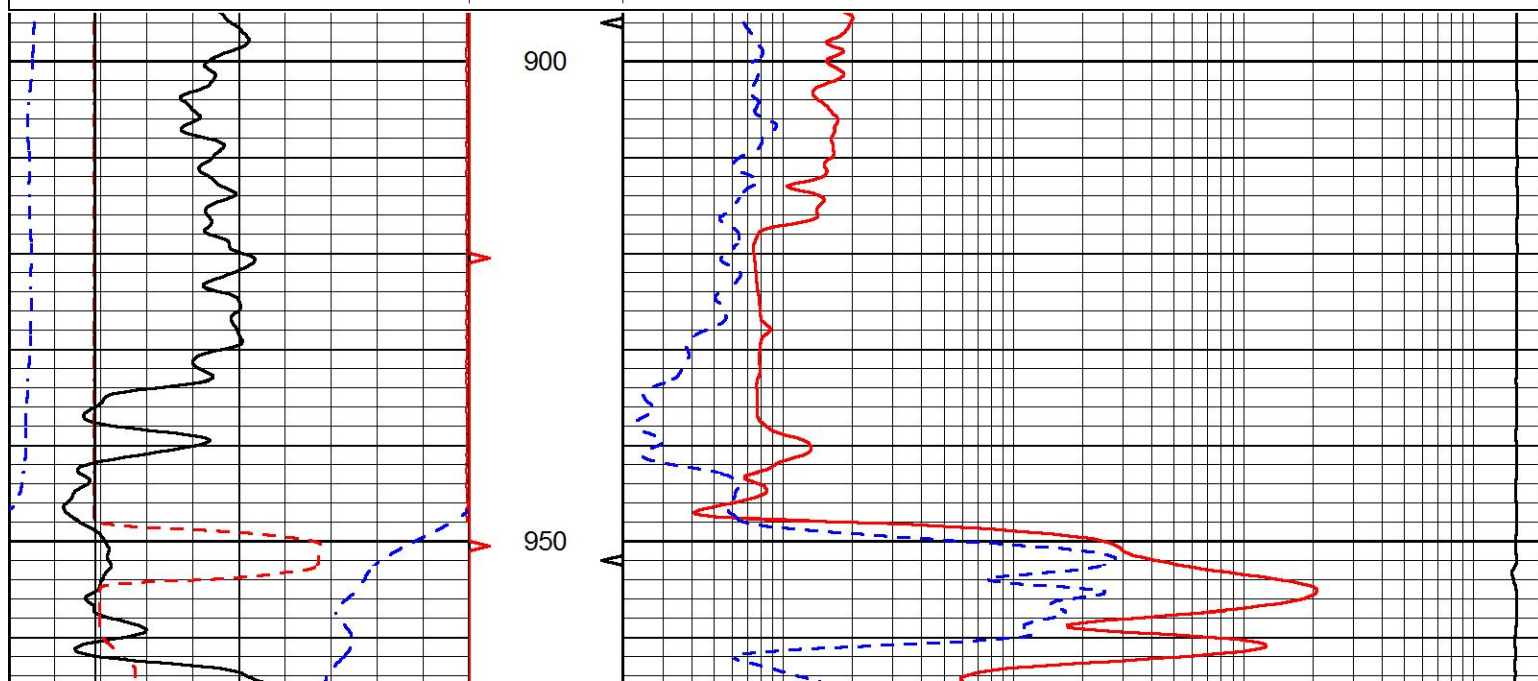


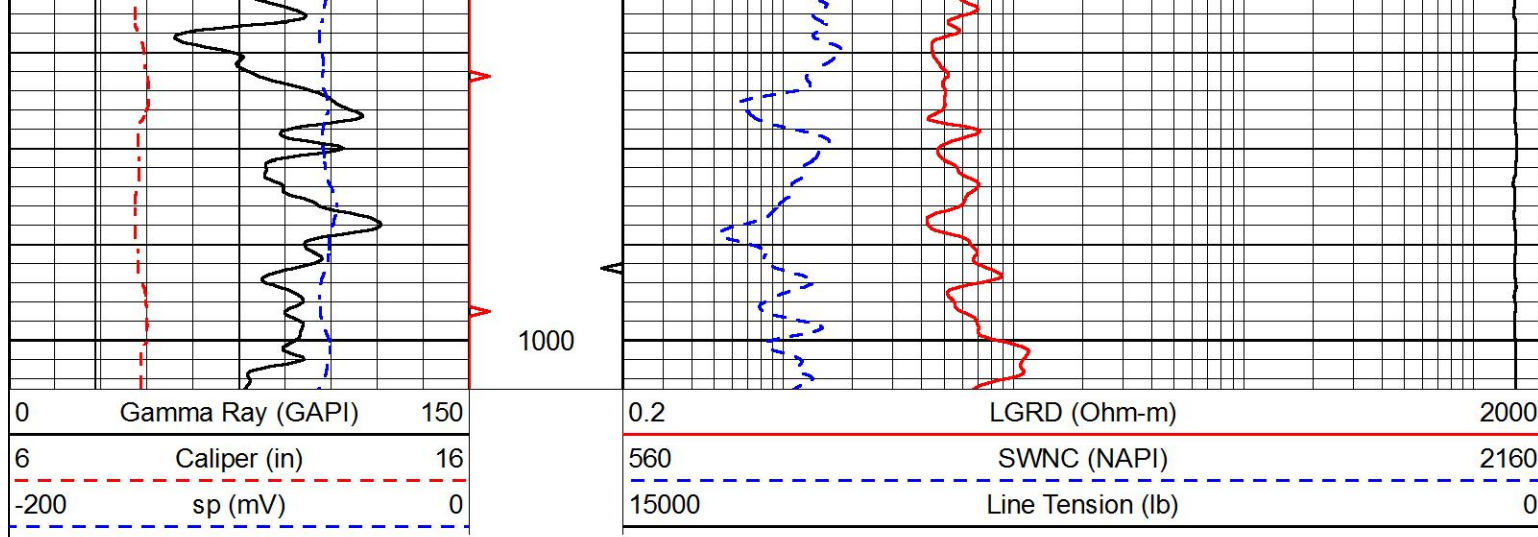


MAIN PASS

Database File bennet schulte_kuhlman_14-1.db
 Dataset Pathname RAG/pass3.1
 Presentation Format rag
 Dataset Creation Sat Apr 15 16:50:57 2017
 Charted by Depth in Feet scaled 1:240

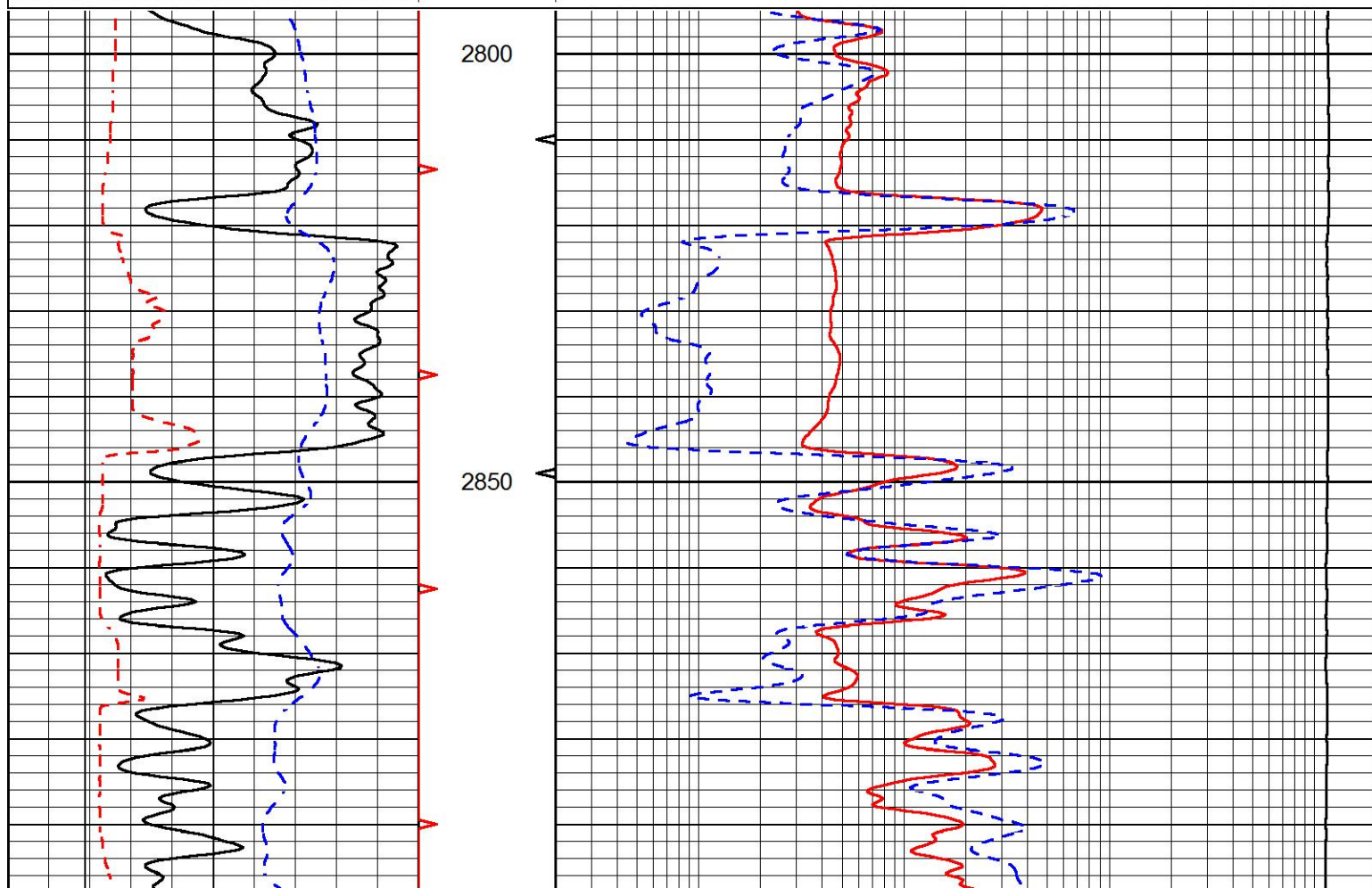
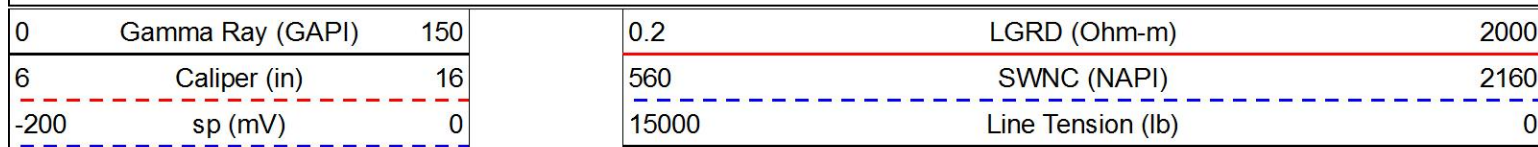
0	Gamma Ray (GAPI)	150	0.2	LGRD (Ohm-m)	2000
6	Caliper (in)	16	560	SWNC (NAPI)	2160
-200	sp (mV)	0	15000	Line Tension (lb)	0

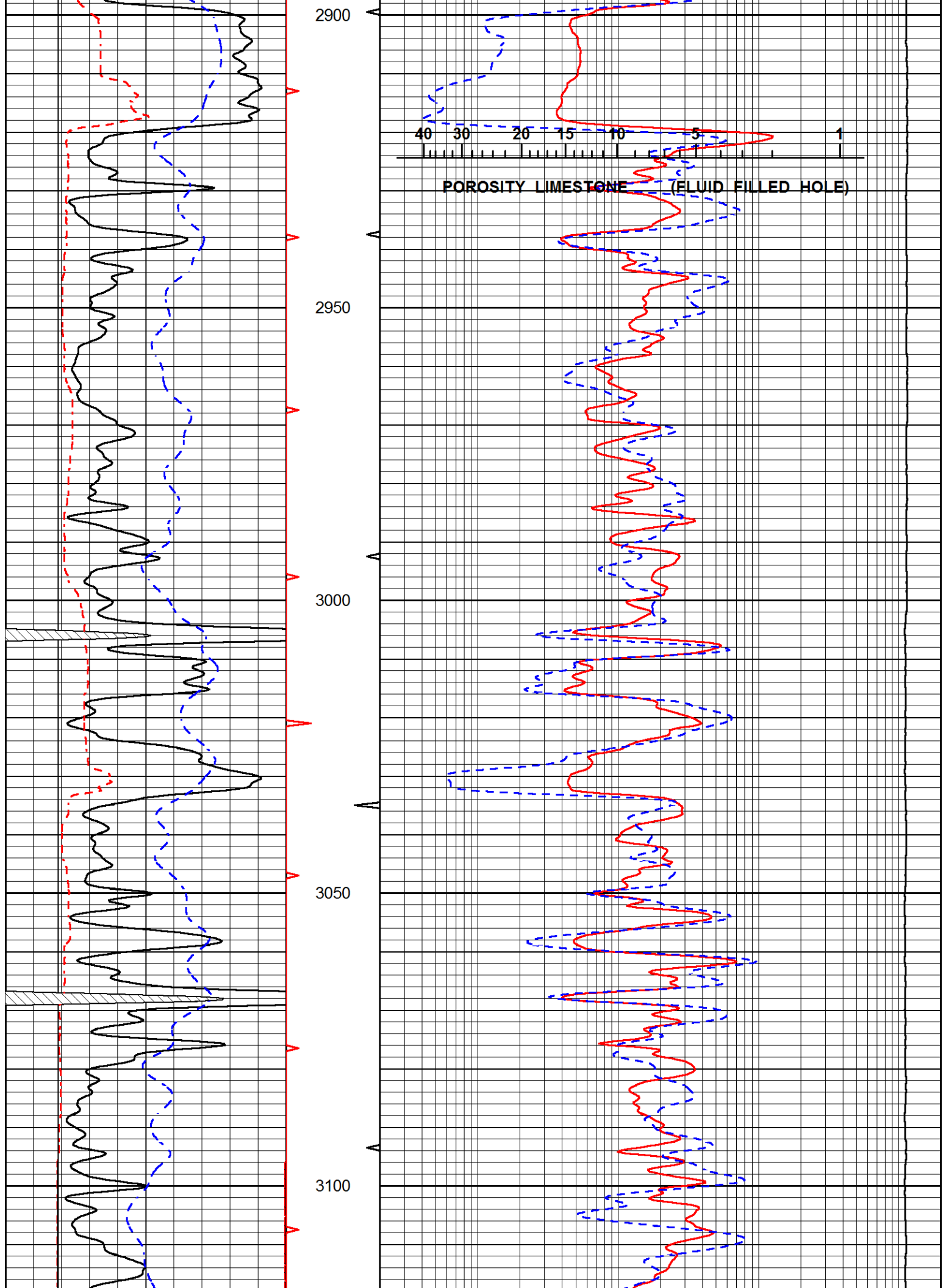


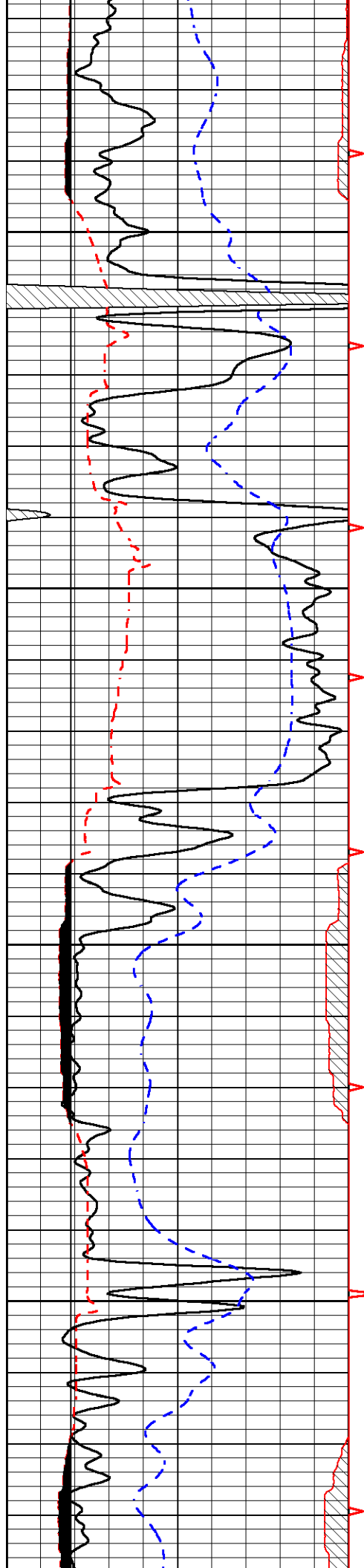


MAIN PASS

Database File: bennet schulte_kuhlman_14-1.db
 Dataset Pathname: RAG/pass3.1
 Presentation Format: rag
 Dataset Creation: Sat Apr 15 16:50:57 2017
 Charted by: Depth in Feet scaled 1:240





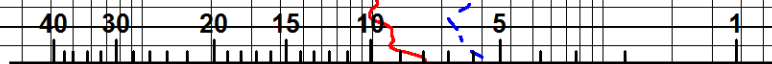


3150

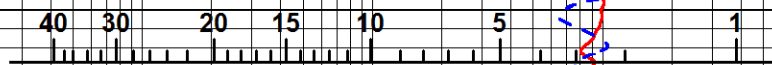
3200

3250

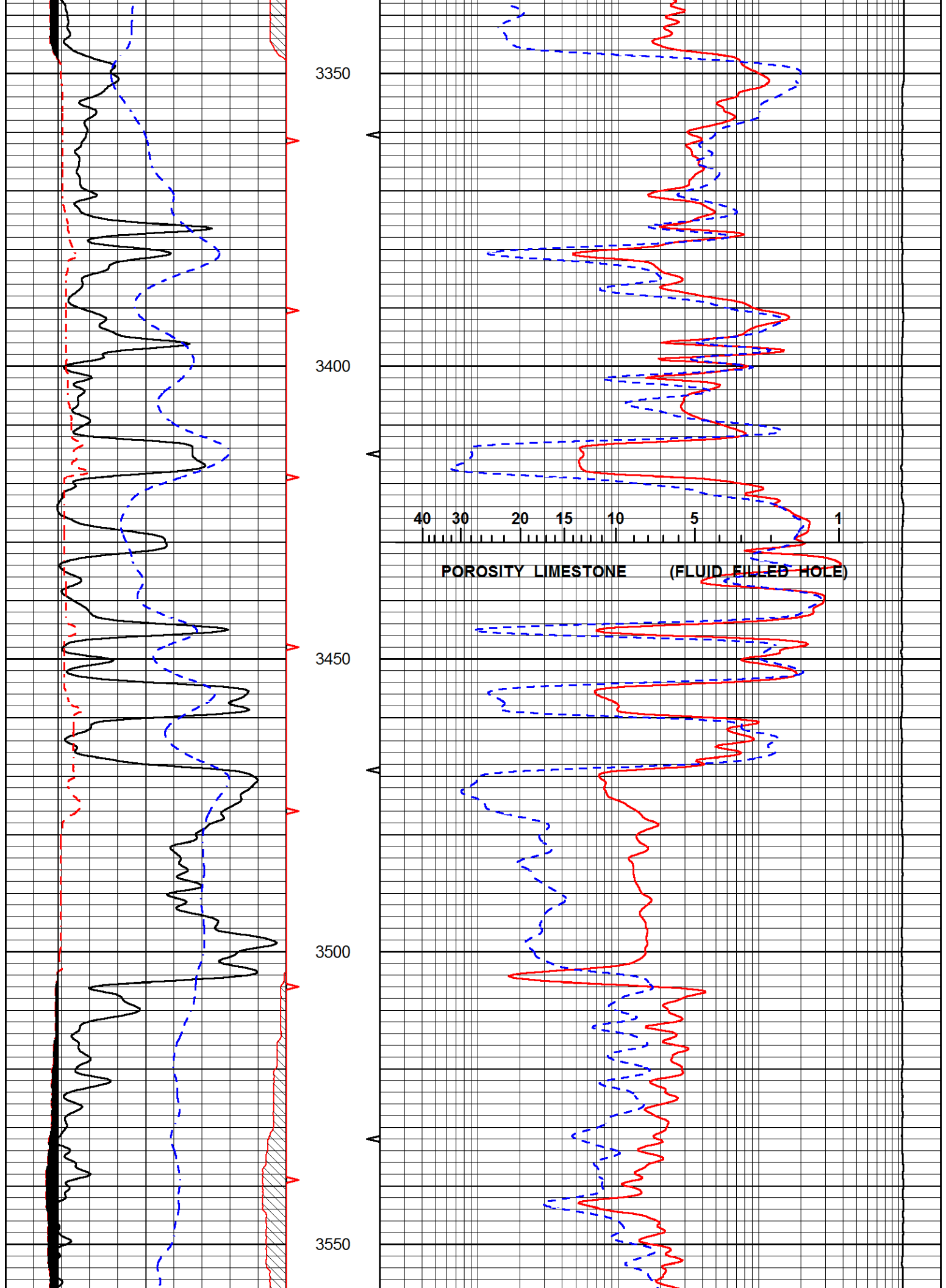
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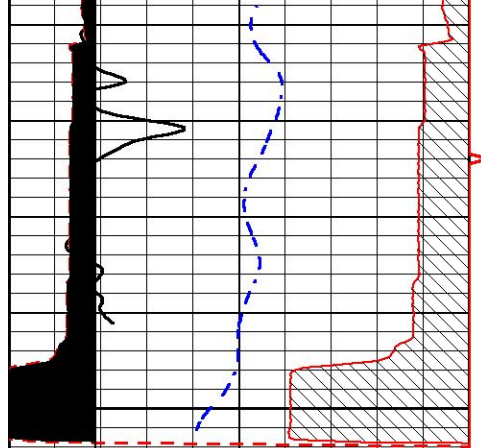


POROSITY LIMESTONE (FLUID FILLED HOLE)



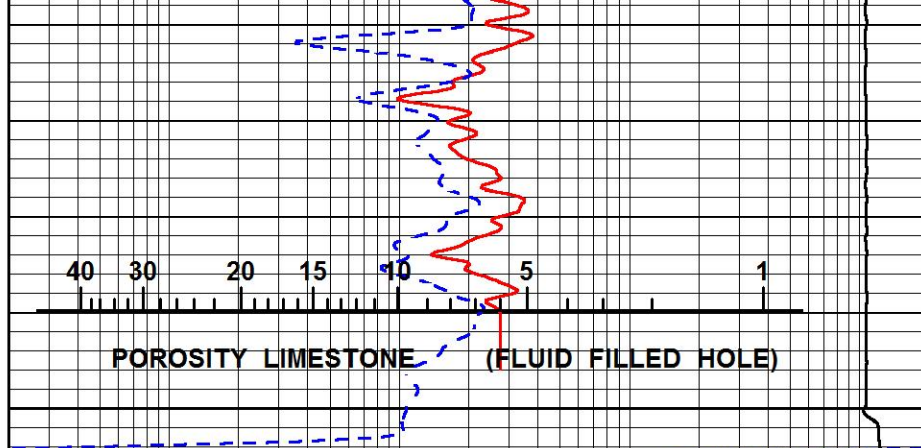
POROSITY LIMESTONE (FLUID FILLED HOLE)





0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-200	sp (mV)	0

3600



0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160
15000	Line Tension (lb)	0

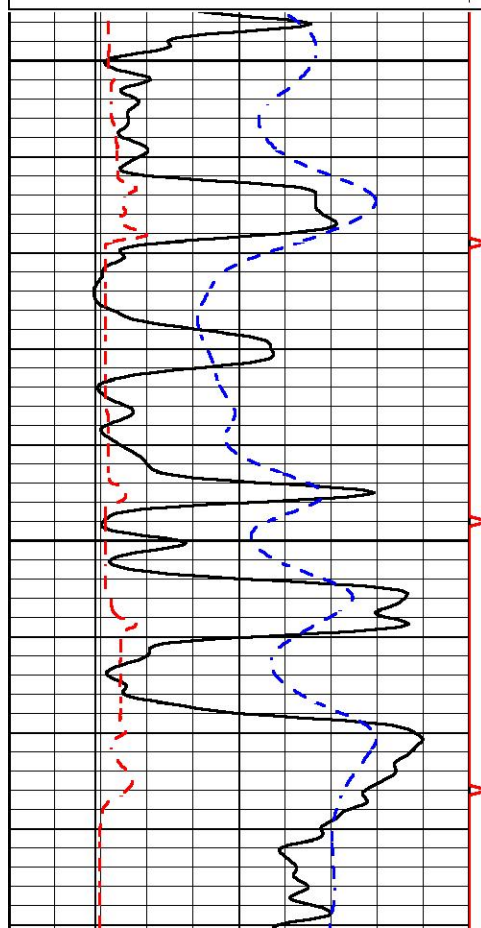


REPEAT SECTION

Database File bennet schulte_kuhlman_14-1.db
 Dataset Pathname RAG/pass2.1
 Presentation Format rag
 Dataset Creation Sat Apr 15 16:33:40 2017
 Charted by Depth in Feet scaled 1:240

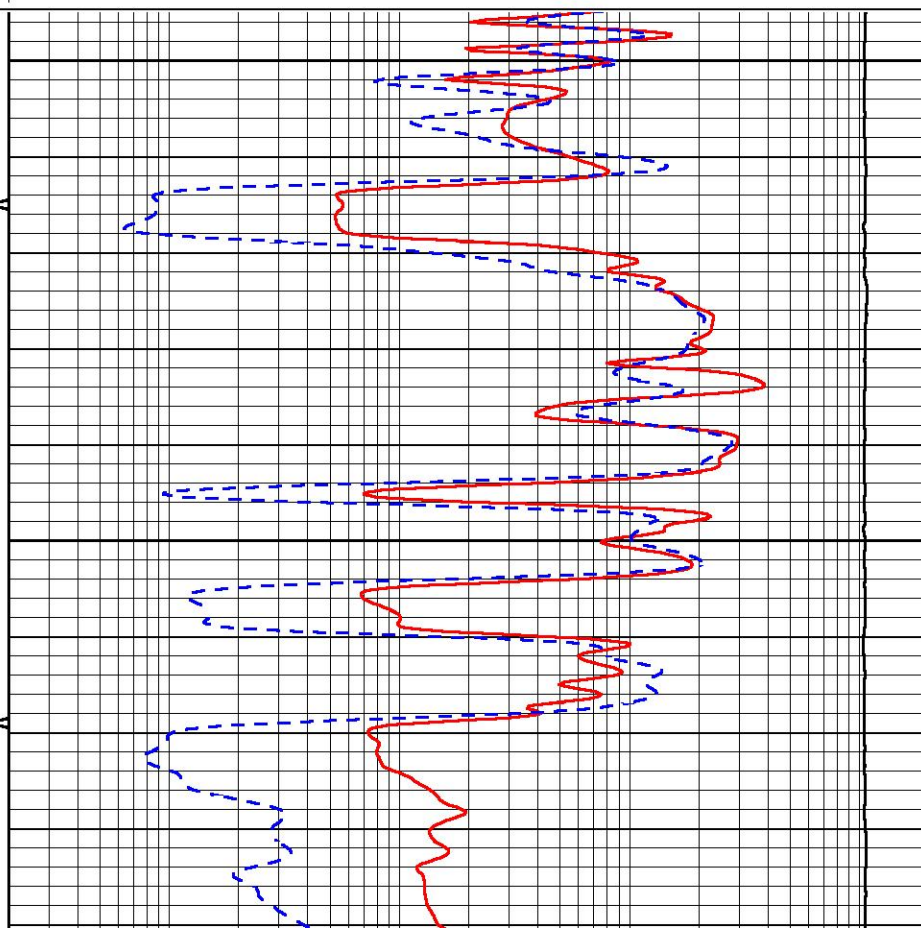
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-200	sp (mV)	0

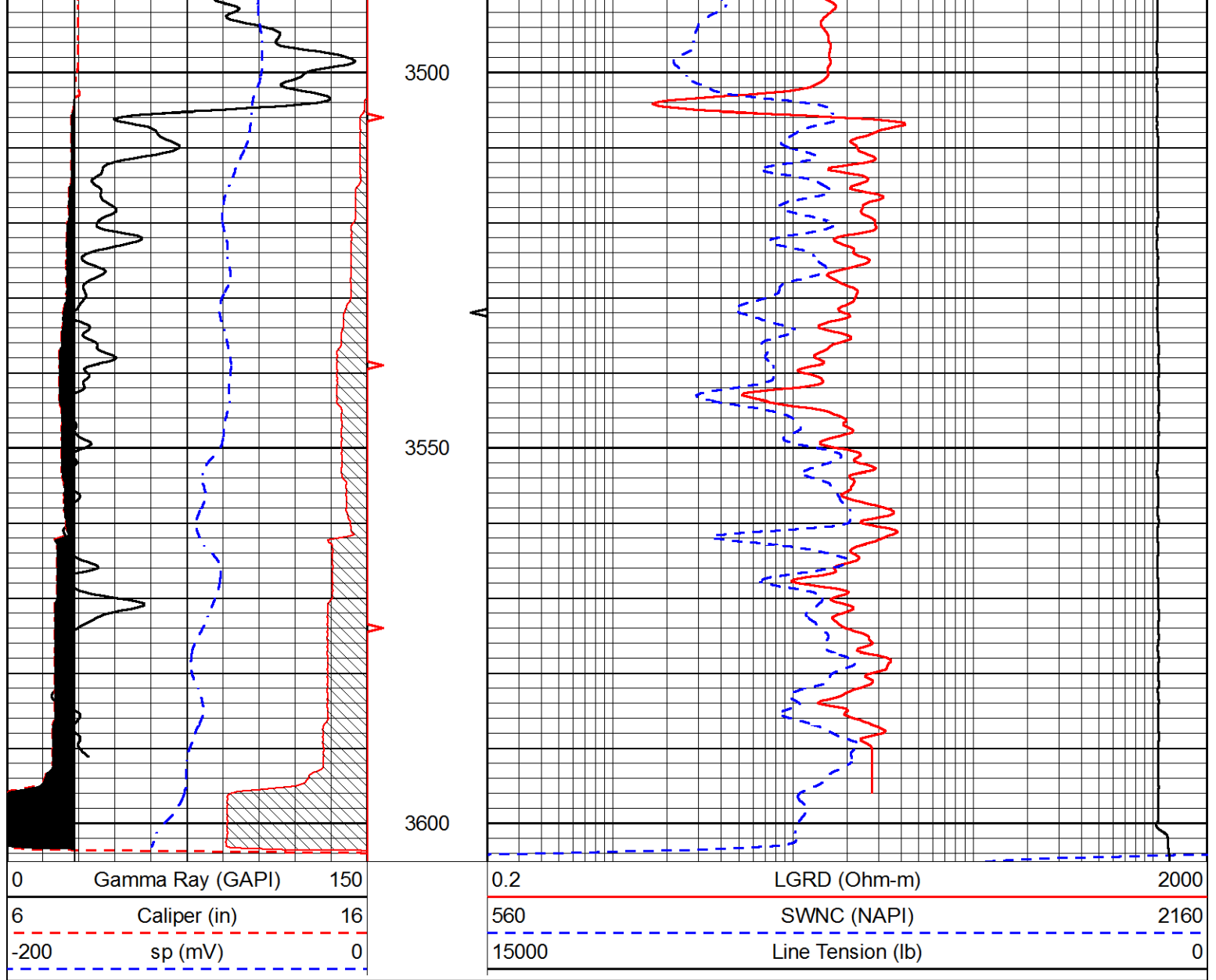
0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160
15000	Line Tension (lb)	0



3400

3450





Calibration Report				
Database File	bennet schulte_kuhlman_14-1.db			
Dataset Pathname	RAG/pass3.4			
Dataset Creation	Sat Apr 15 16:32:28 2017			
Sidewall Neutron Calibration Report				
Serial Number:		SP162-87		
Tool Model:		M&W-SP		
SWN Calibration		Mon Aug 08 12:41:49 2016		
Readings		Target		Normalization
2566.42	cps	1085.00	cps	0.5300
Caliper Calibration		Mon Aug 08 12:41:49 2016		
Readings		Reference		Gain
0.86		4.00		-24.00
0.26		14.00		Offset
				21.38
Gamma Ray Calibration Report				

Serial Number: 89
Tool Model: M&W
Calibration Performed: Fri Mar 31 18:42:32 2017

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps



Company	BENNETT & SCHULTE OIL CO.
Well	KUHLMAN #14-1
Field	N/A
County	BARTON
State	KANSAS