MIDWEST WIRELINE

MICRORESISTIVITY LOG

Company Chris Batchman, Inc.
Well Herter #5
Field Chase - Silica
County Barton
State Kansas

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Location: API # : 15-009-26297-00-00
SE - NW - SE - SE
710' FSL & 890' FEL
SEC 8 TWP 20S RGE 11W

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum Ground Level Elevation 1775'
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation
K.B. 1784'
D.F. N/A
G.L. 1775'

Date	4/28/2021		
Run Number	One		
Depth Driller	3400'		
Depth Logger	3401'		
Bottom Logged Interval	3400'		
Top Log Interval	2400'		
Casing Driller	8.625" @ 265'		
Casing Logger	264'		
Bit Size	7.875"		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	9500		
Density / Viscosity	8.9 46		
pH / Fluid Loss	9.0 10.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.50 @ 60		
Rmf @ Meas. Temp	0.38 @ 60		
Rmc @ Meas. Temp	0.68 @ 60		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.27 @ 110		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	110		
Equipment Number	P-24		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	James Musgrove		

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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.

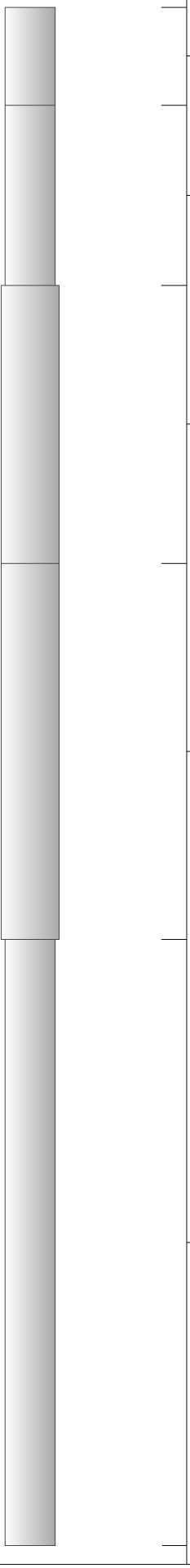
Ellinwood,
South to SE 30 Rd, 1 7/8 East,
North into

Log Measured From: Kelly Bushing 9 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew	This Log Record Was Witnessed By
Engineer: D. Schmidt	Primary Witness: James Musgrove
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			GR-M&W (233-M&W)	3.00	3.50	50.00
GR	44.50					
CNLSC	41.40		CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	40.65					
			CDL-M&W (817-947)	8.50	4.00	250.00
LSD	32.35					
DCAL	32.33					
SSD	31.85					
			ML-PSI UDM ML (UDM-01) Stackable Microlog Tools	11.50	4.00	215.00
MCAL	20.87					
MI	20.87					
MN	20.87					
RLL3F	15.80					
RLL3	15.80					
			DIL-PSI HIGH TEMP (952-828)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					

Dataset: batchman_herter 5.db: field/well/stkml/pass3.1
Total length: 47.00 ft
Total weight: 835.00 lb
O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\batchman_herter 5.db
Dataset field/well/stkml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	110	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	0	0	370	60	Off	3401

Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

MIDWEST WIRELINE

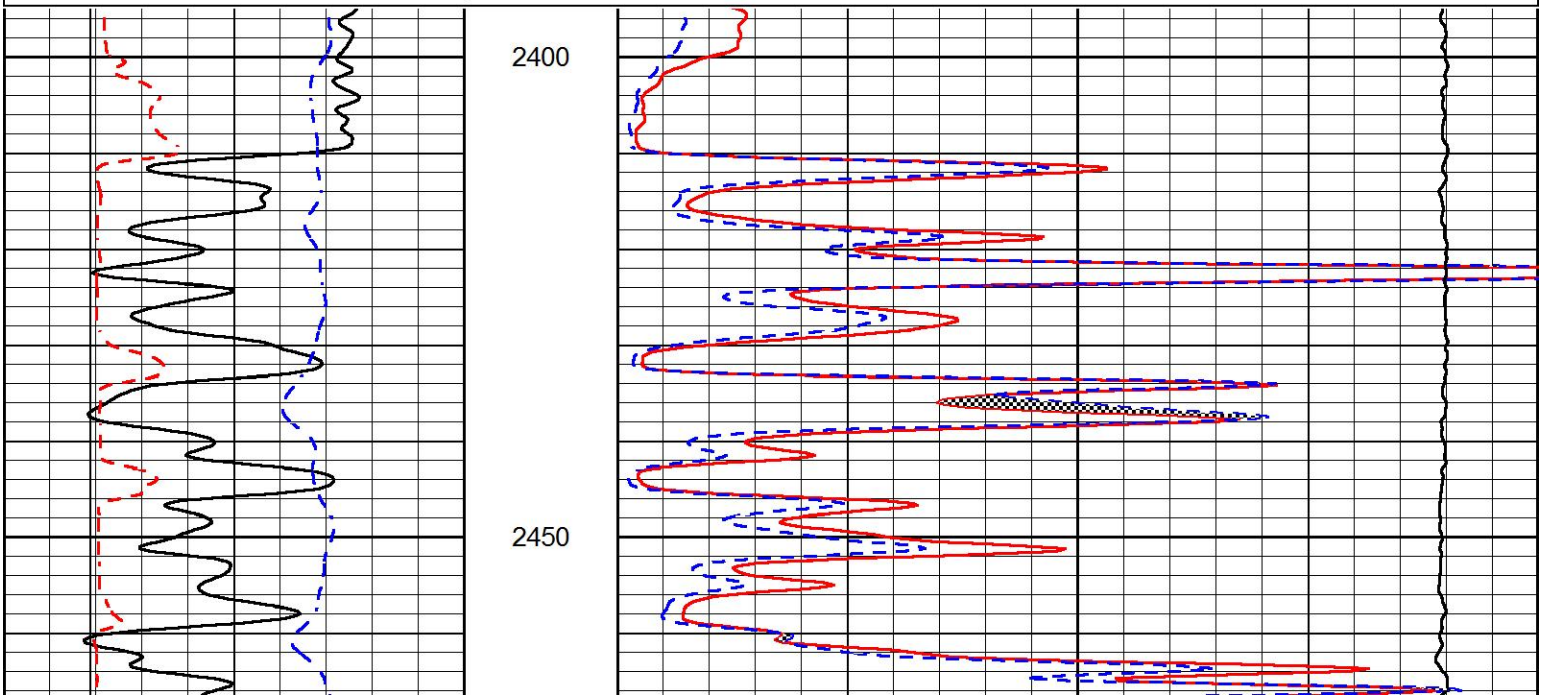
DETAIL SECTION

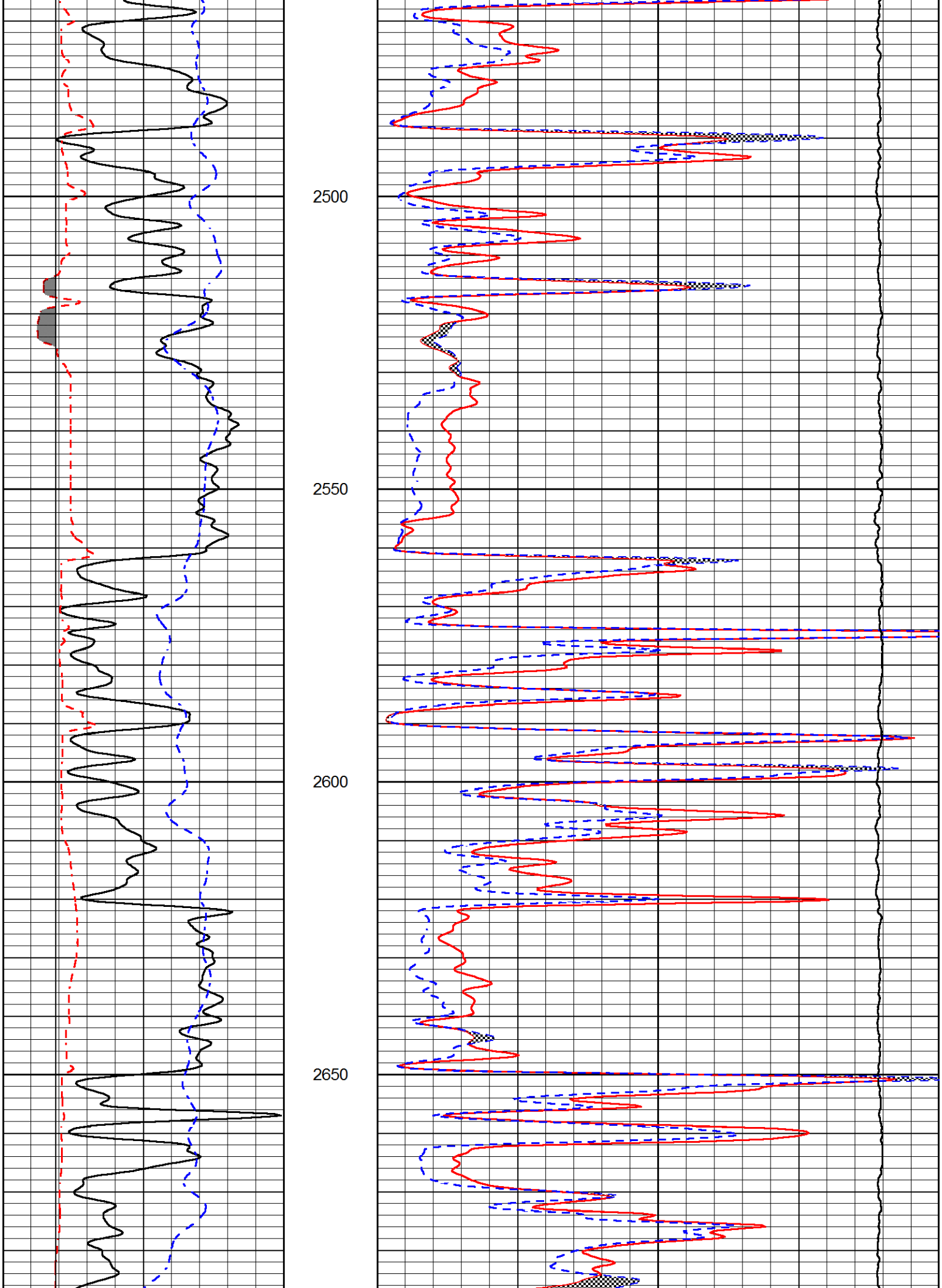
MAIN PASS

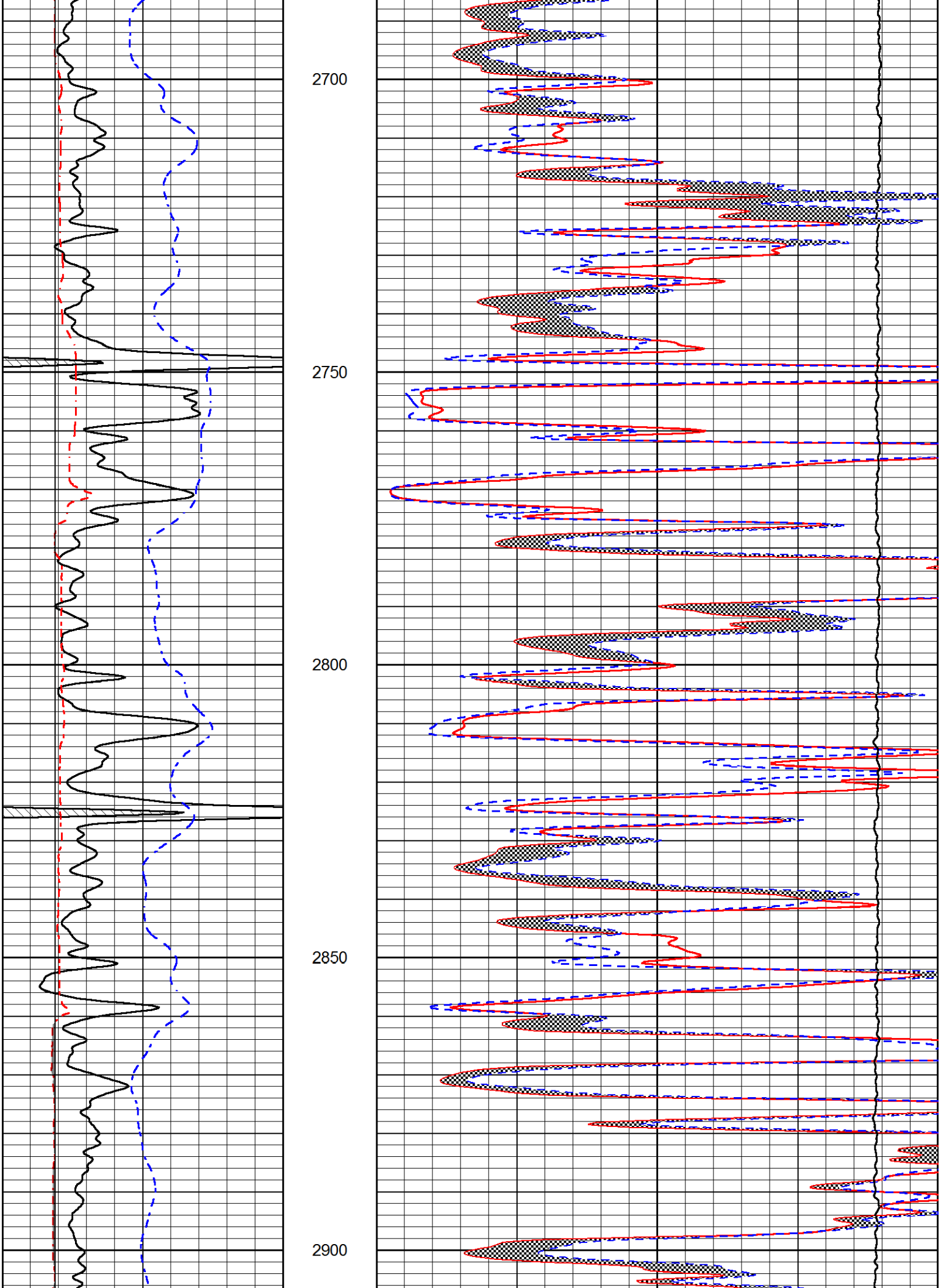
Database File	batchman_herter 5.db
Dataset Pathname	stkml/pass3.1
Presentation Format	_micro
Dataset Creation	Wed Apr 28 08:00:11 2021
Charted by	Depth in Feet scaled 1:240

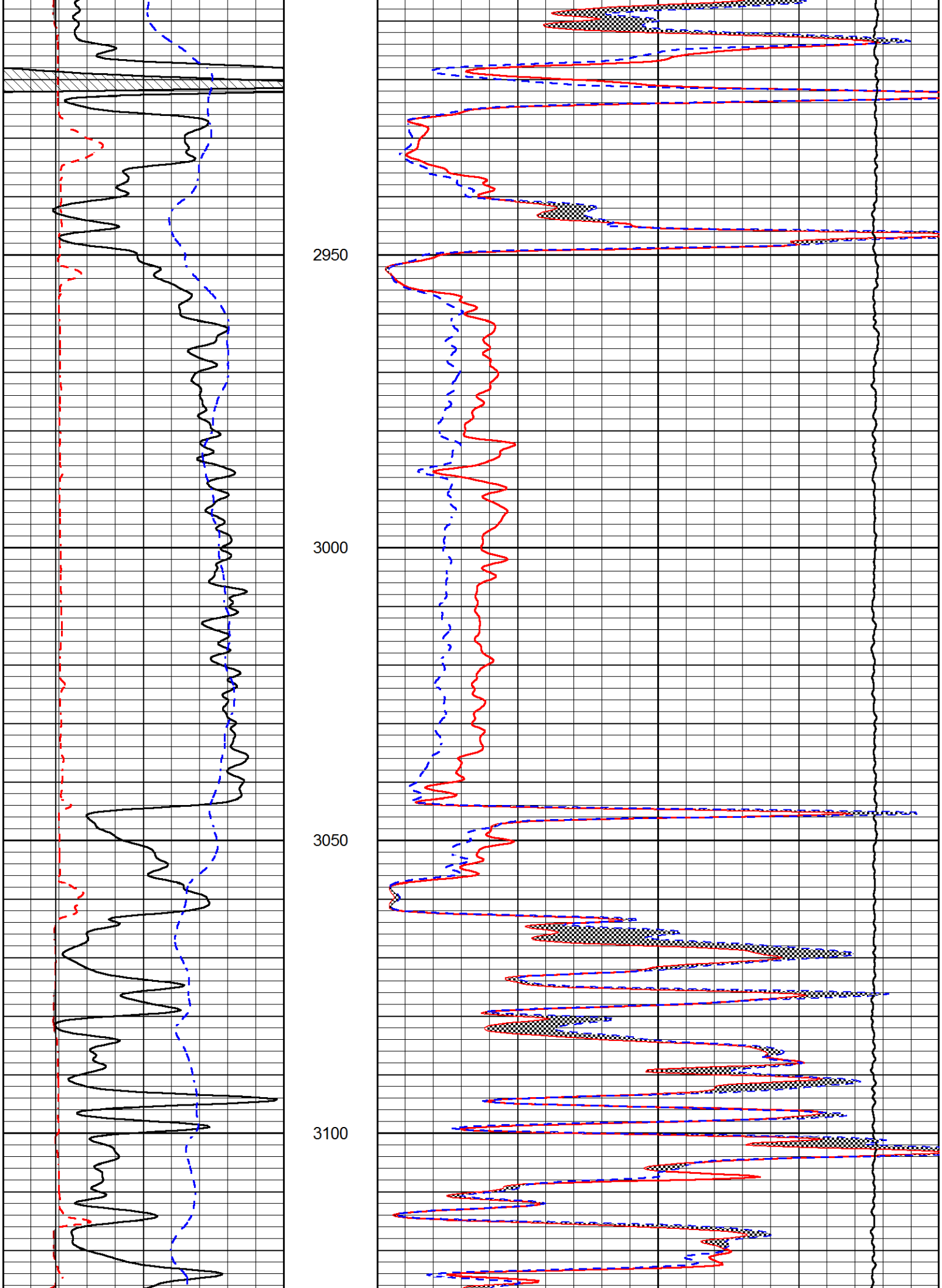
0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
6	Bit Size (in)	16
-200	sp (mV)	0

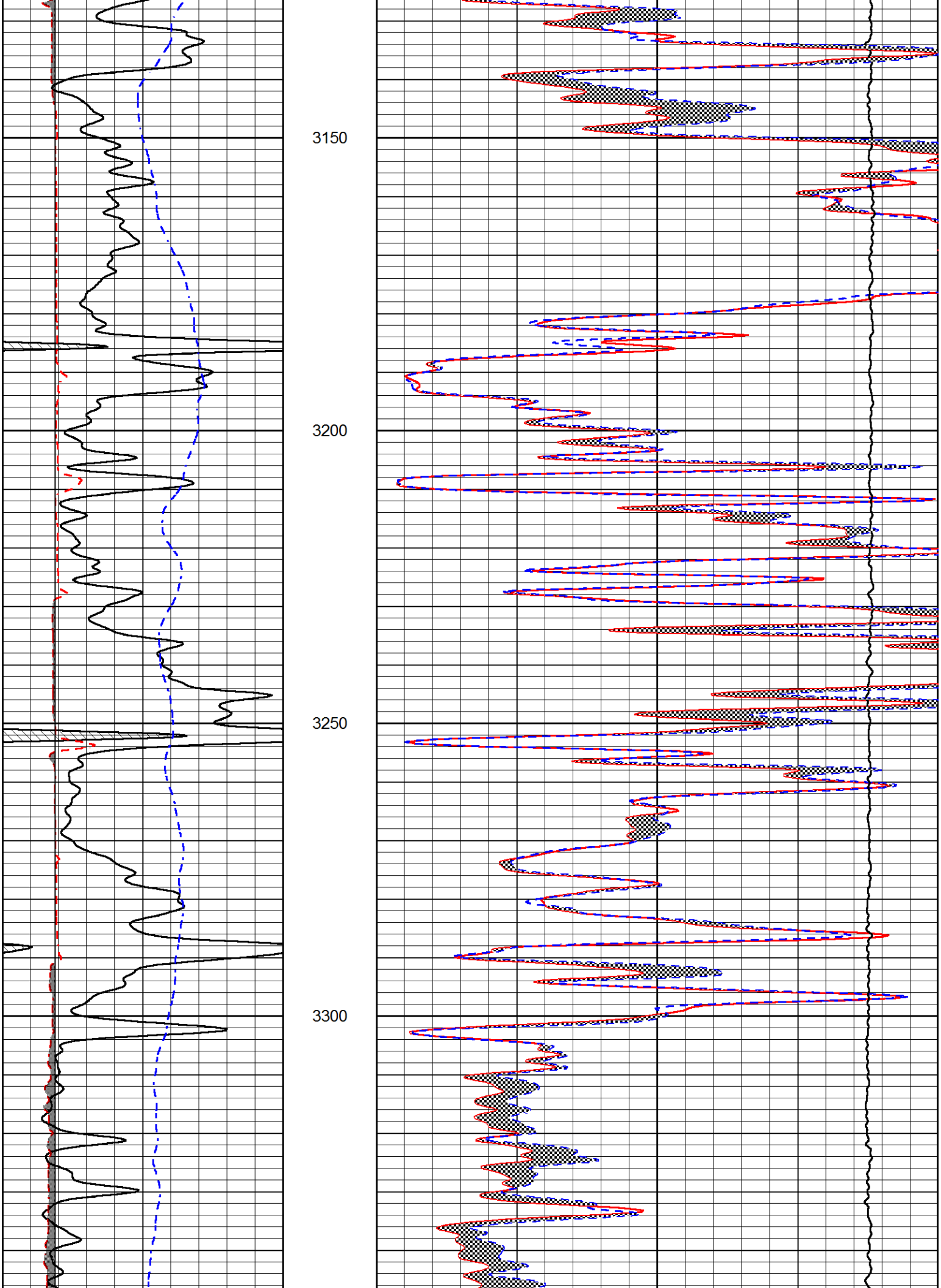
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0

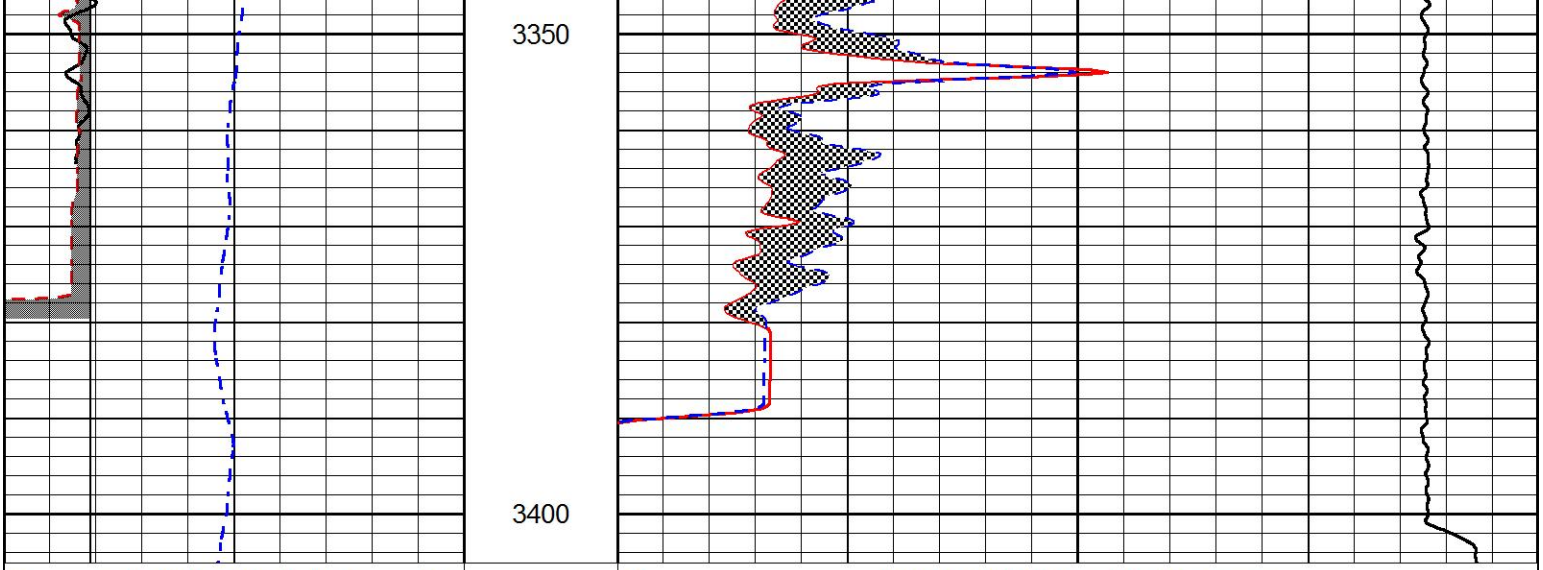



2500
2550
2600
2650


2700
2750
2800
2850
2900


2950
3000
3050
3100


3150
3200
3250
3300



0	GAMMA RAY (GAPI)	150
6	MCAL (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
10000	Line Weight (lb)	0

MIDWEST WIRELINE

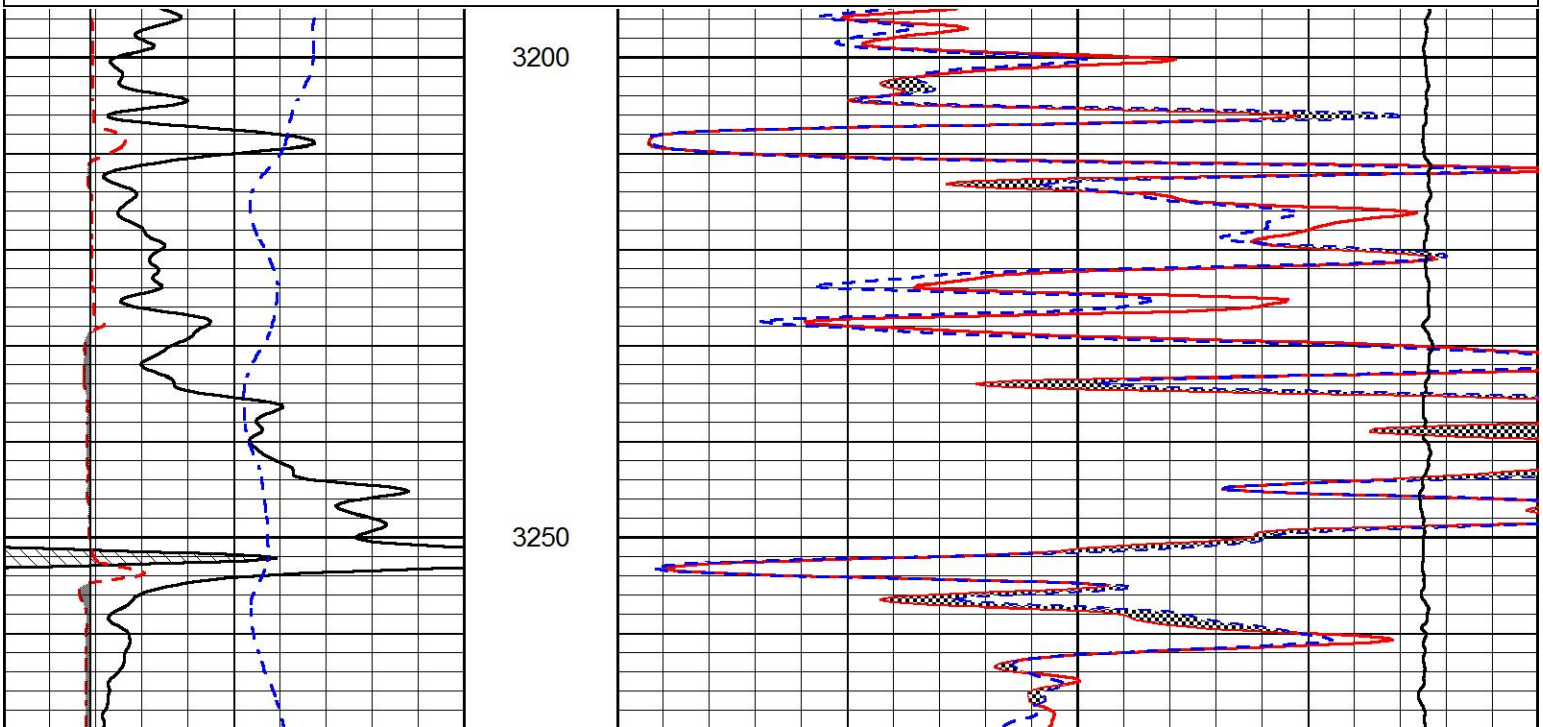
REPEAT SECTION

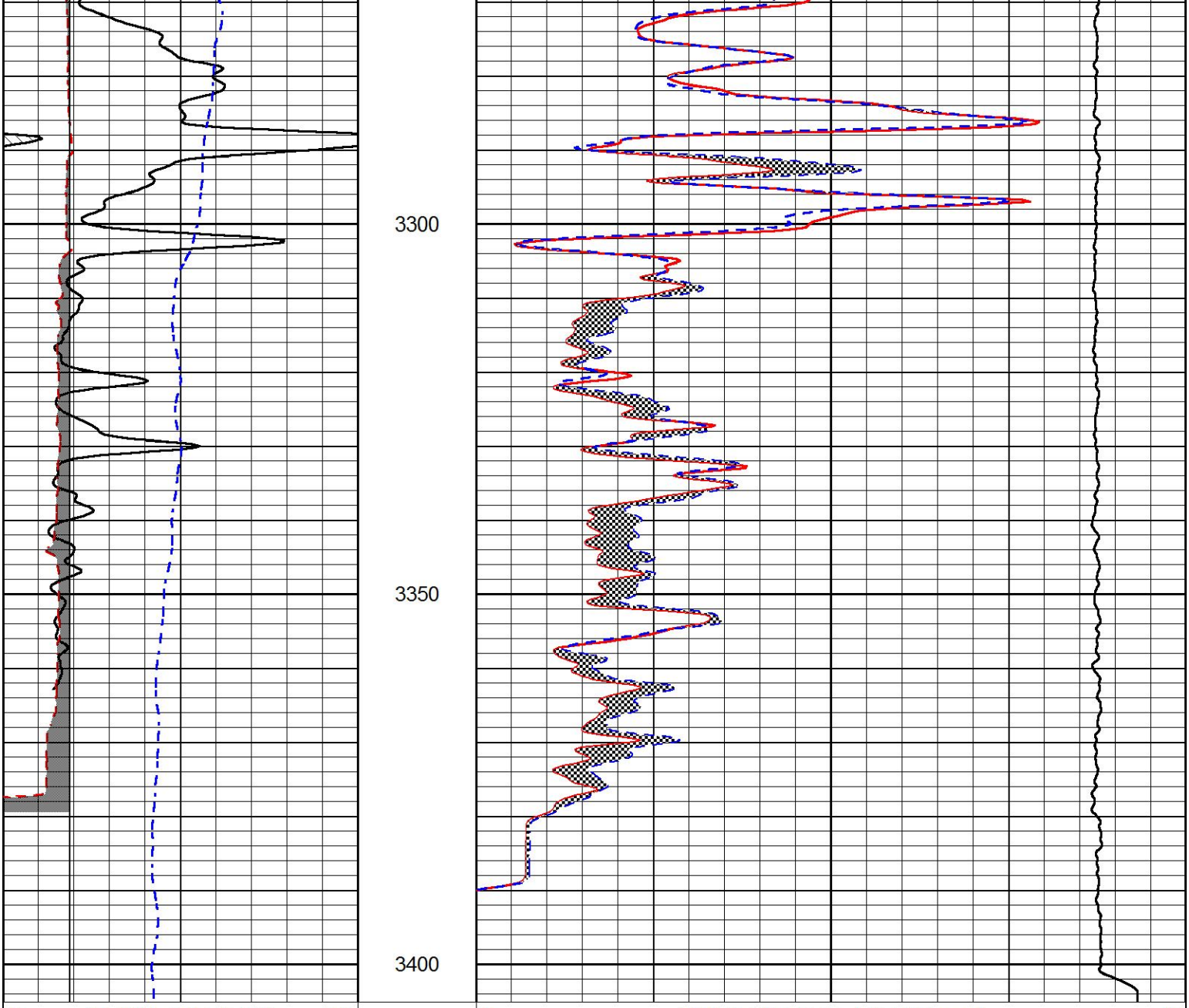
REPEAT PASS

Database File	batchman_herter 5.db
Dataset Pathname	stkml/pass2.1
Presentation Format	_micro
Dataset Creation	Wed Apr 28 08:13:57 2021
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MCAL (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
10000	Line Weight (lb)	0





0	GAMMA RAY (GAPI)	150
6	MCAL (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
10000	Line Weight (lb)	0

MIDWEST WIRELINE

Company	Chris Batchman, Inc.
Well	Herter #5
Field	Chase - Silica
County	Barton
State	Kansas