MIDWEST WIRELINE

DUAL COMP POROSITY LOG

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

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

Other Services
DIL/MEL
BHCS

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

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

Date	4/28/2021
Run Number	One
Type Log	CNL/CDL
Depth Driller	3400'
Depth Logger	3401'
Bottom Logged Interval	3367'
Top Logged Interval	2400'
Type Fluid In Hole	Chemical
Salinity, PPM CL	9500
Density	8.9
Level	Full
Max. Rec. Temp. F	110
Operating Rig Time	4 Hours
Equipment -- Location	P-24 | HAYS
Recorded By	D. Schmidt
Witnessed By	James Musgrove

Borehole Record

Run No.	Bit	From	To
One	12.25"	0'	265'
Two	7.875"	265'	TD

Casing Record

Size	Wgt.	From	To
8.625"	23#	0'	265'

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

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/pass6.1
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/pass6.1/_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

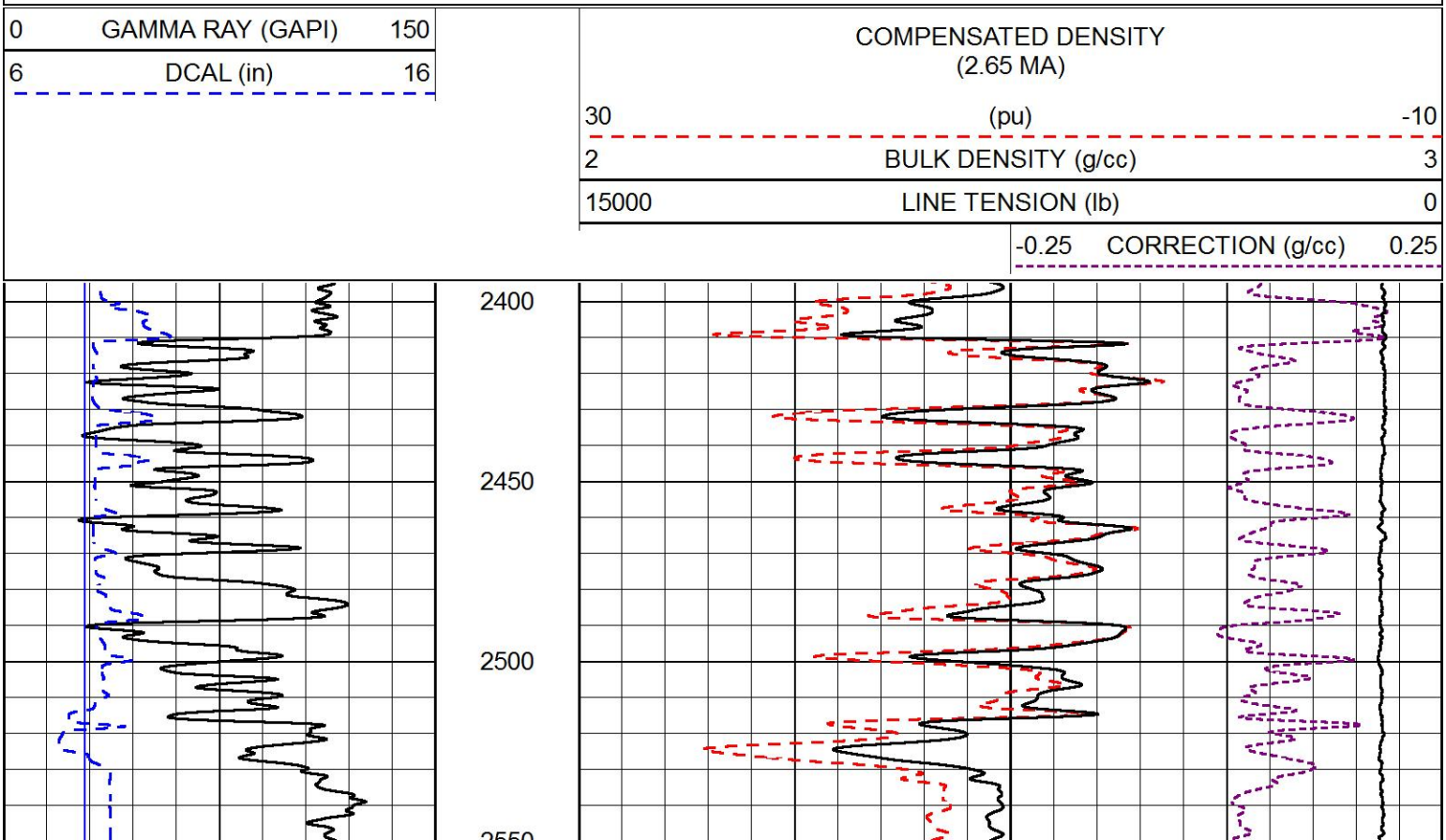
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM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

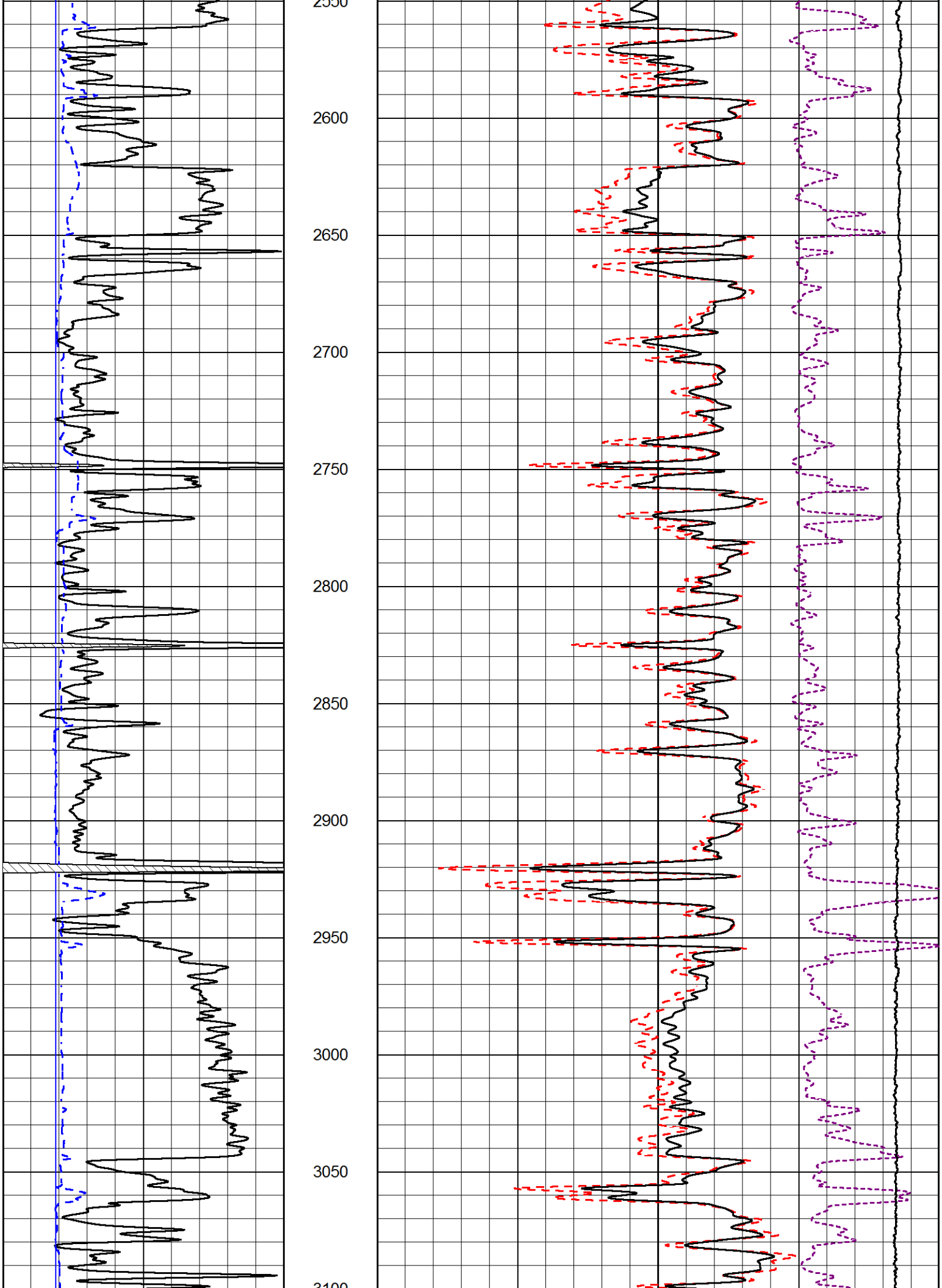
MIDWEST WIRELINE

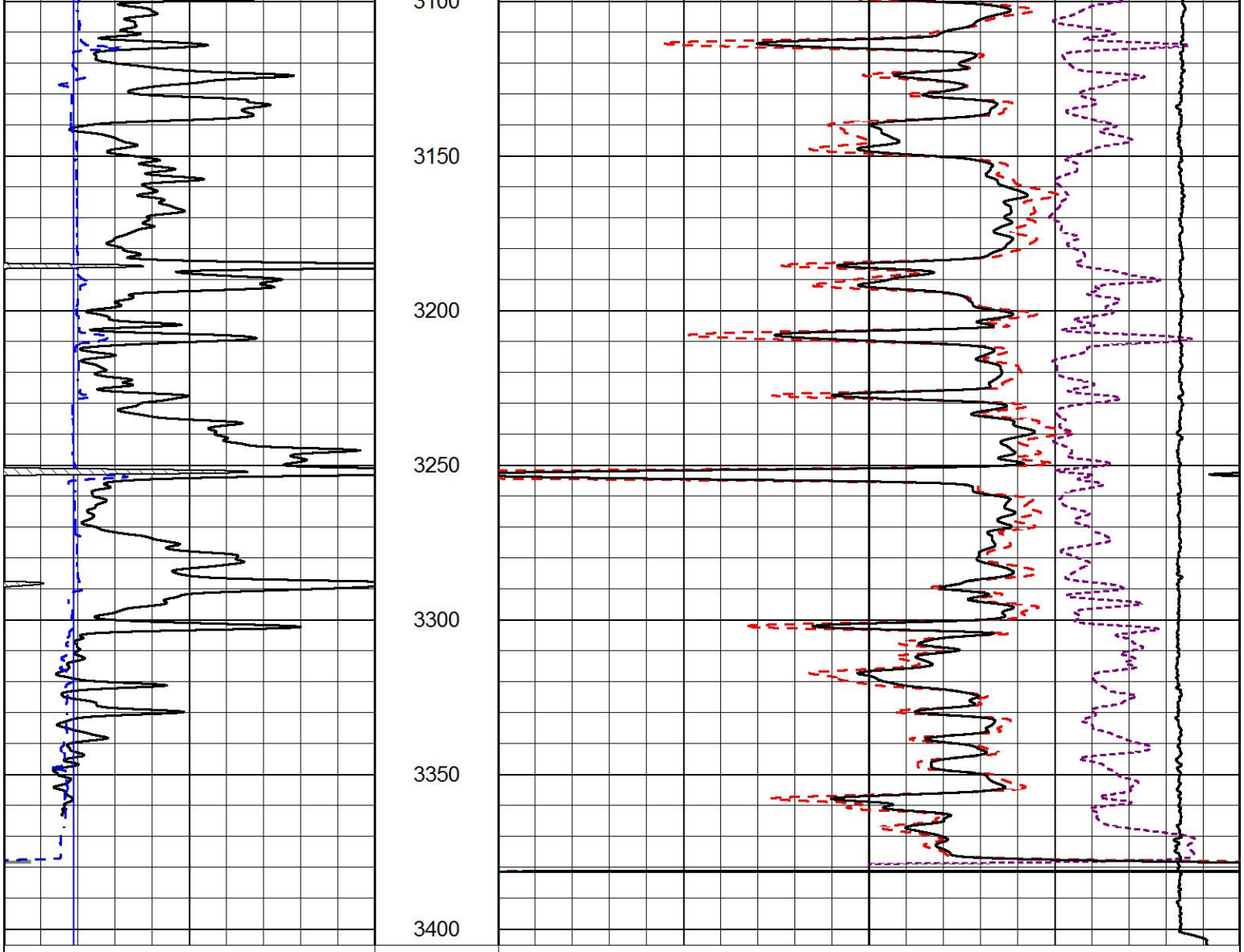
2" SCALE BULK DENSITY

MAIN PASS

Database File	batchman_herter 5.db
Dataset Pathname	stkml/pass4.1
Presentation Format	_cdl
Dataset Creation	Wed Apr 28 08:07:59 2021
Charted by	Depth in Feet scaled 1:600




2550
2600
2650
2700
2750
2800
2850
2900
2950
3000
3050
3100

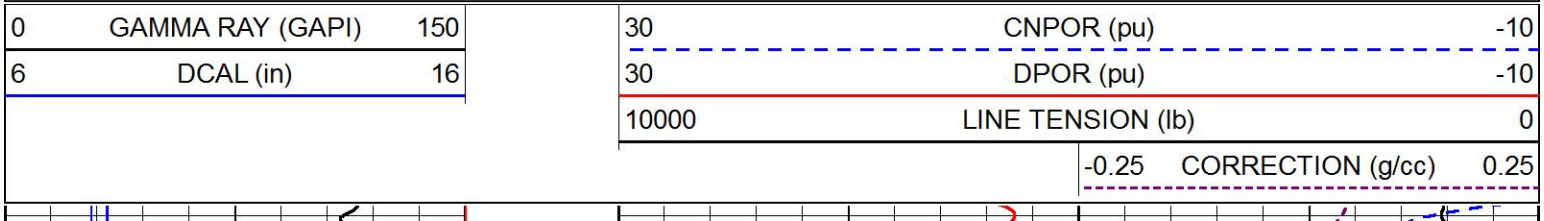


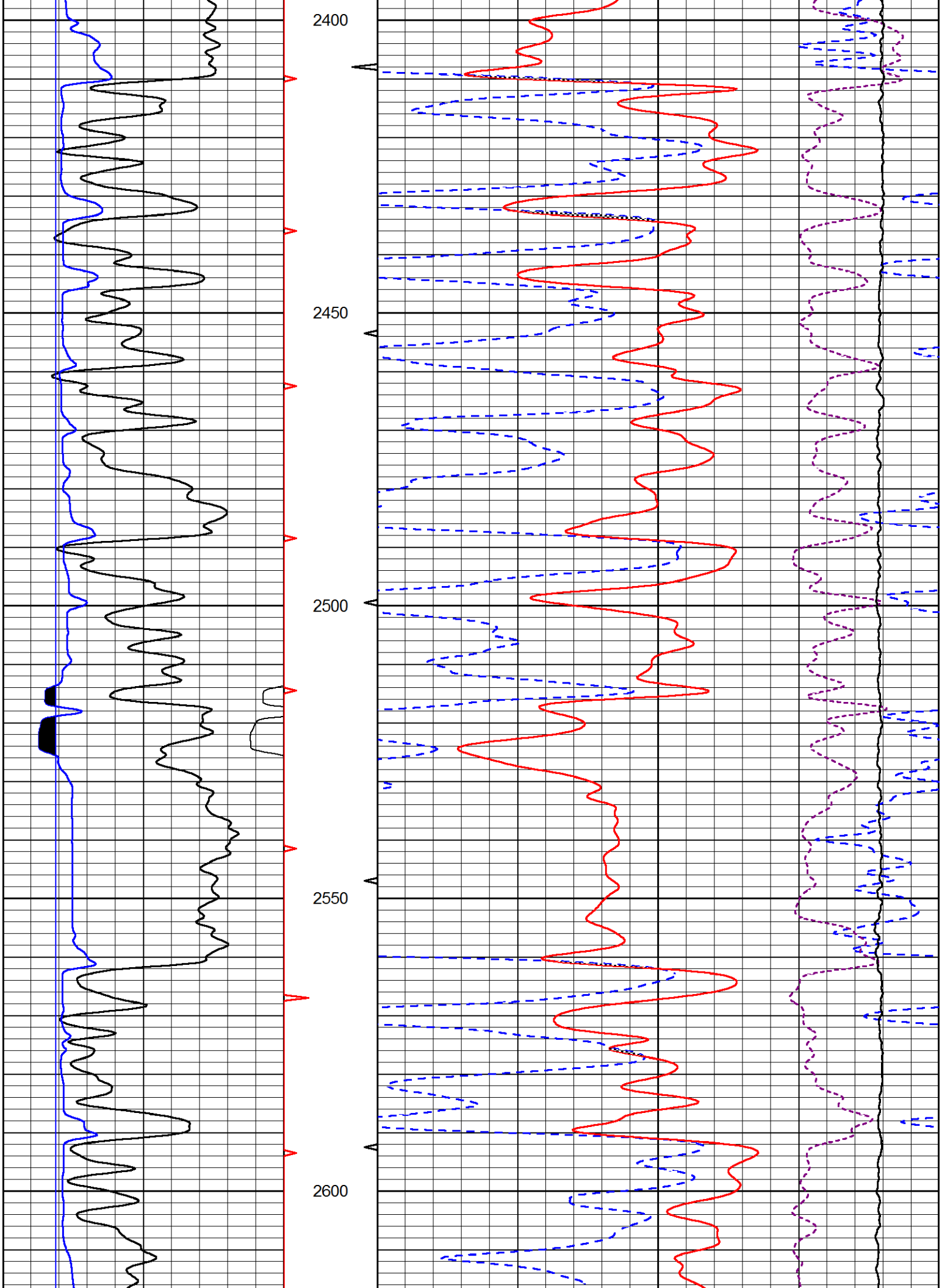
MIDWEST WIRELINE

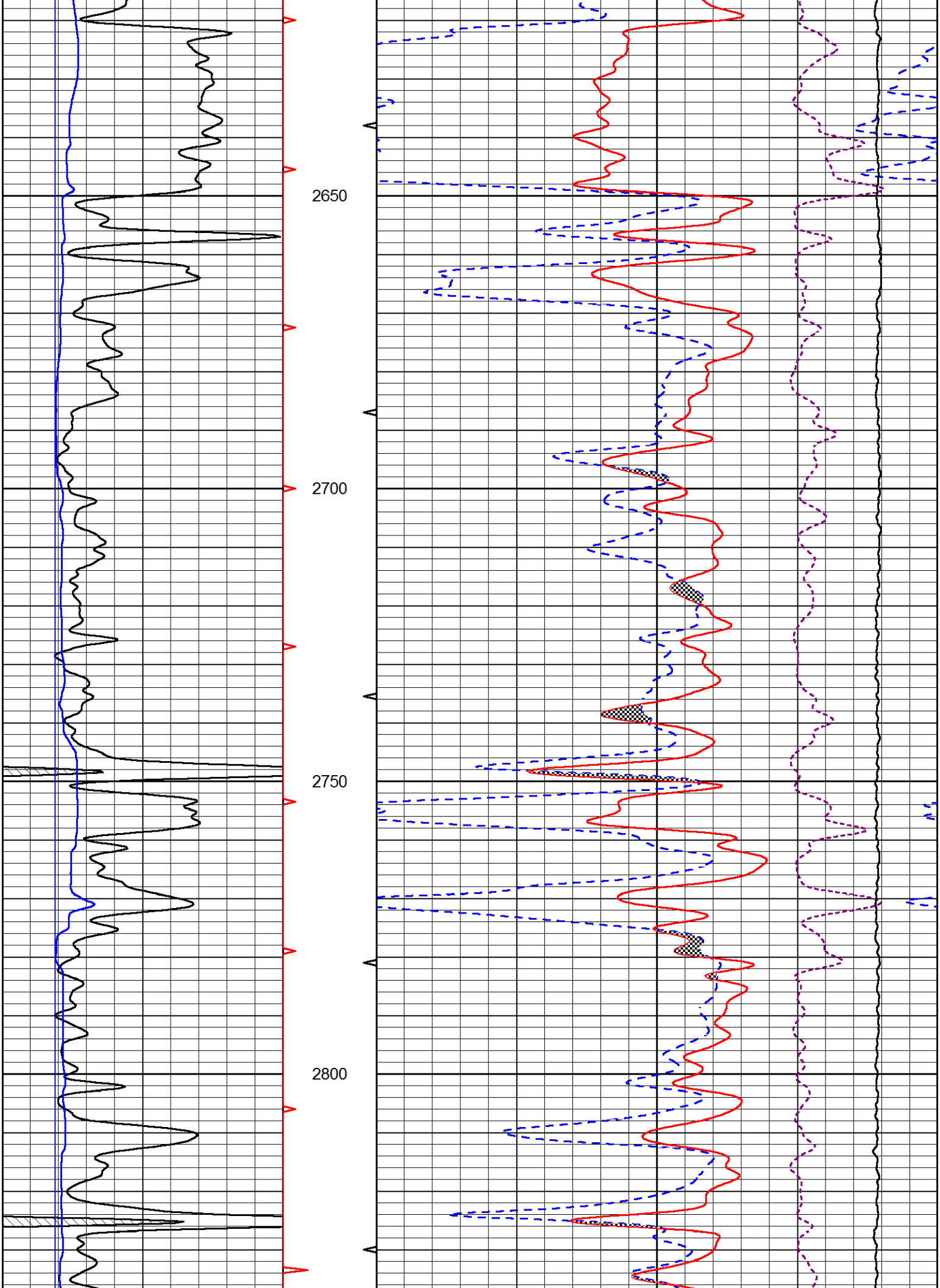
DETAIL SECTION

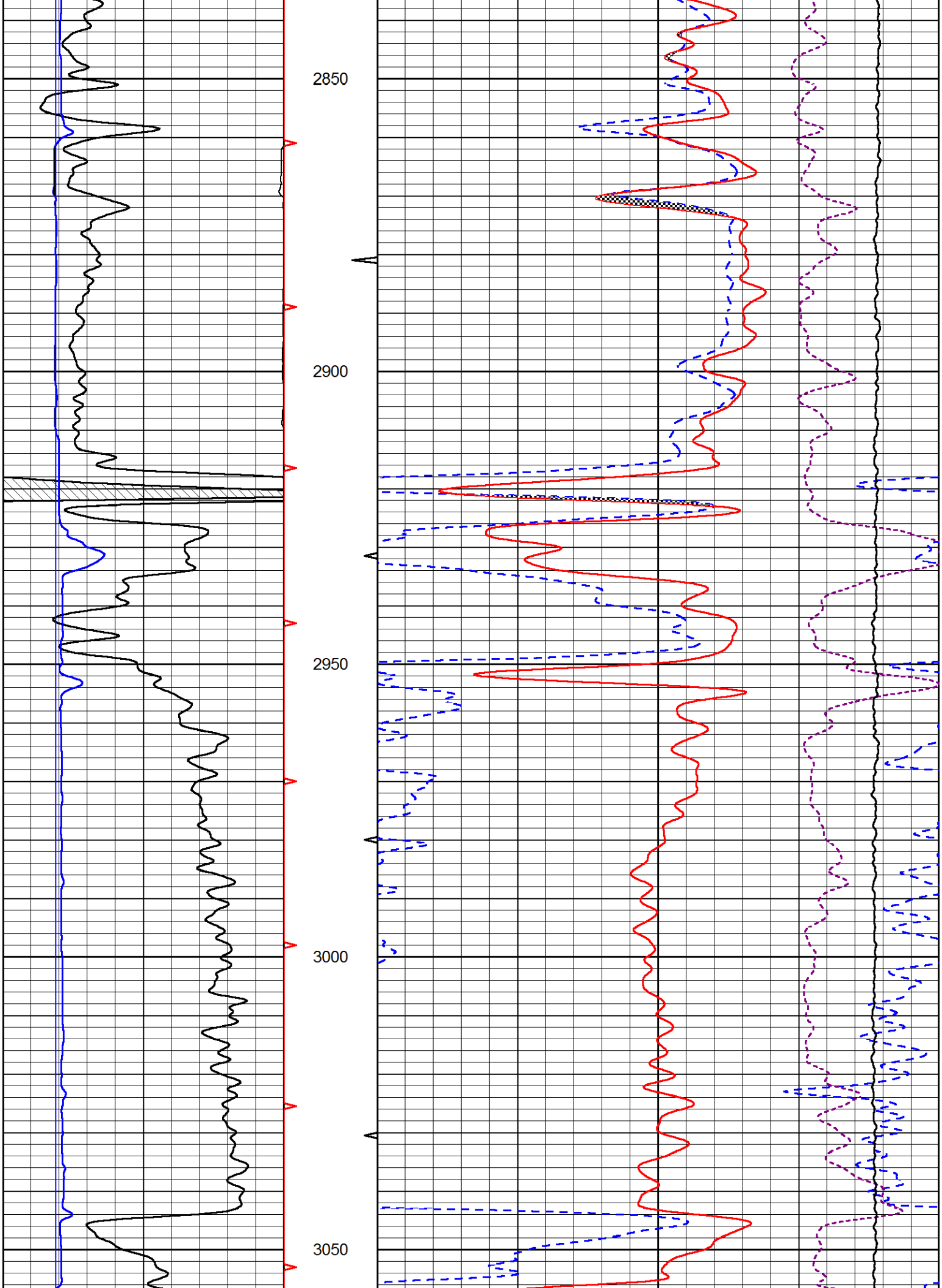
MAIN PASS

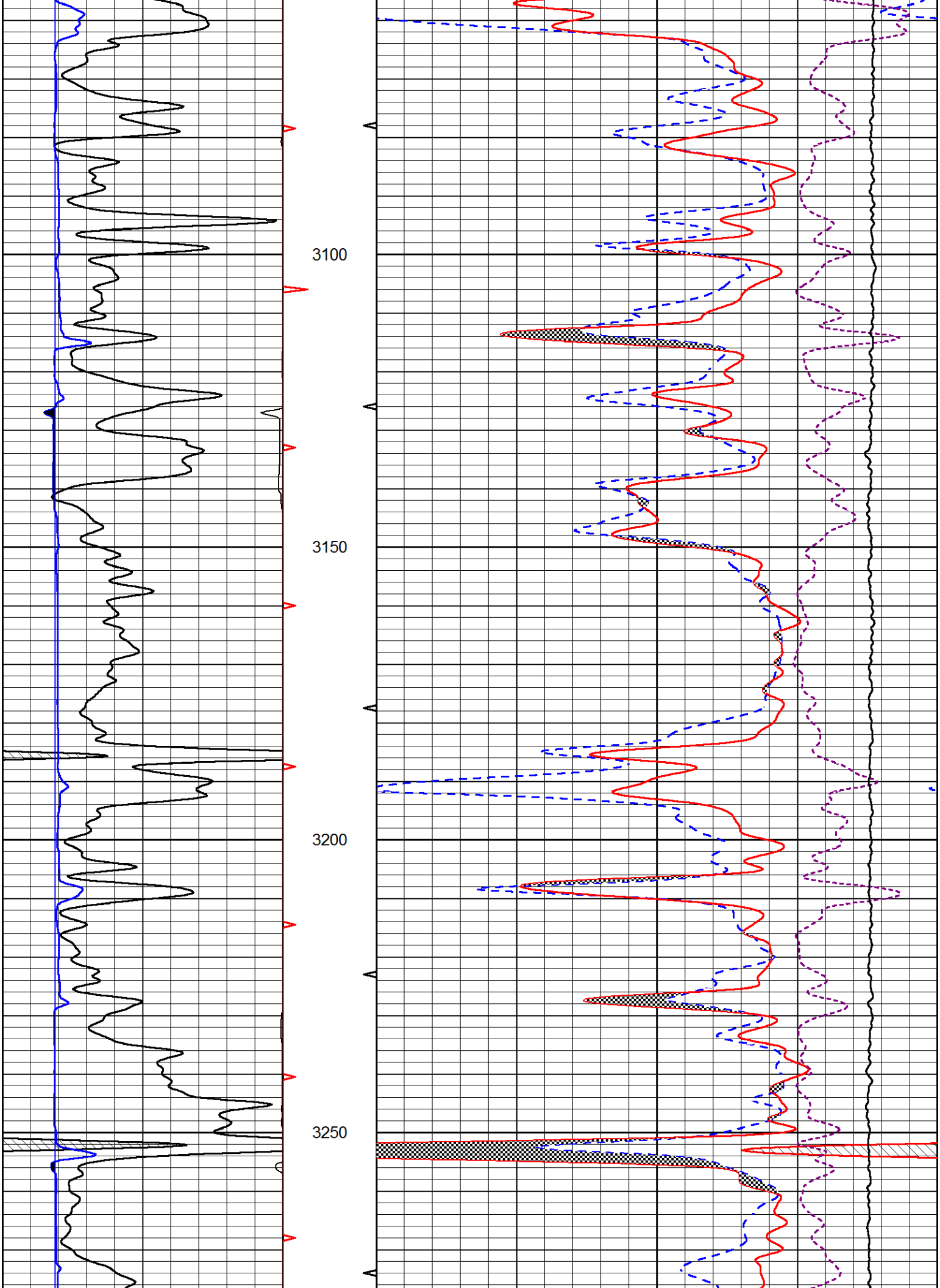
Database File	batchman_herter 5.db
Dataset Pathname	stkml/pass3.1
Presentation Format	_CNDLS~1
Dataset Creation	Wed Apr 28 08:00:11 2021
Charted by	Depth in Feet scaled 1:240

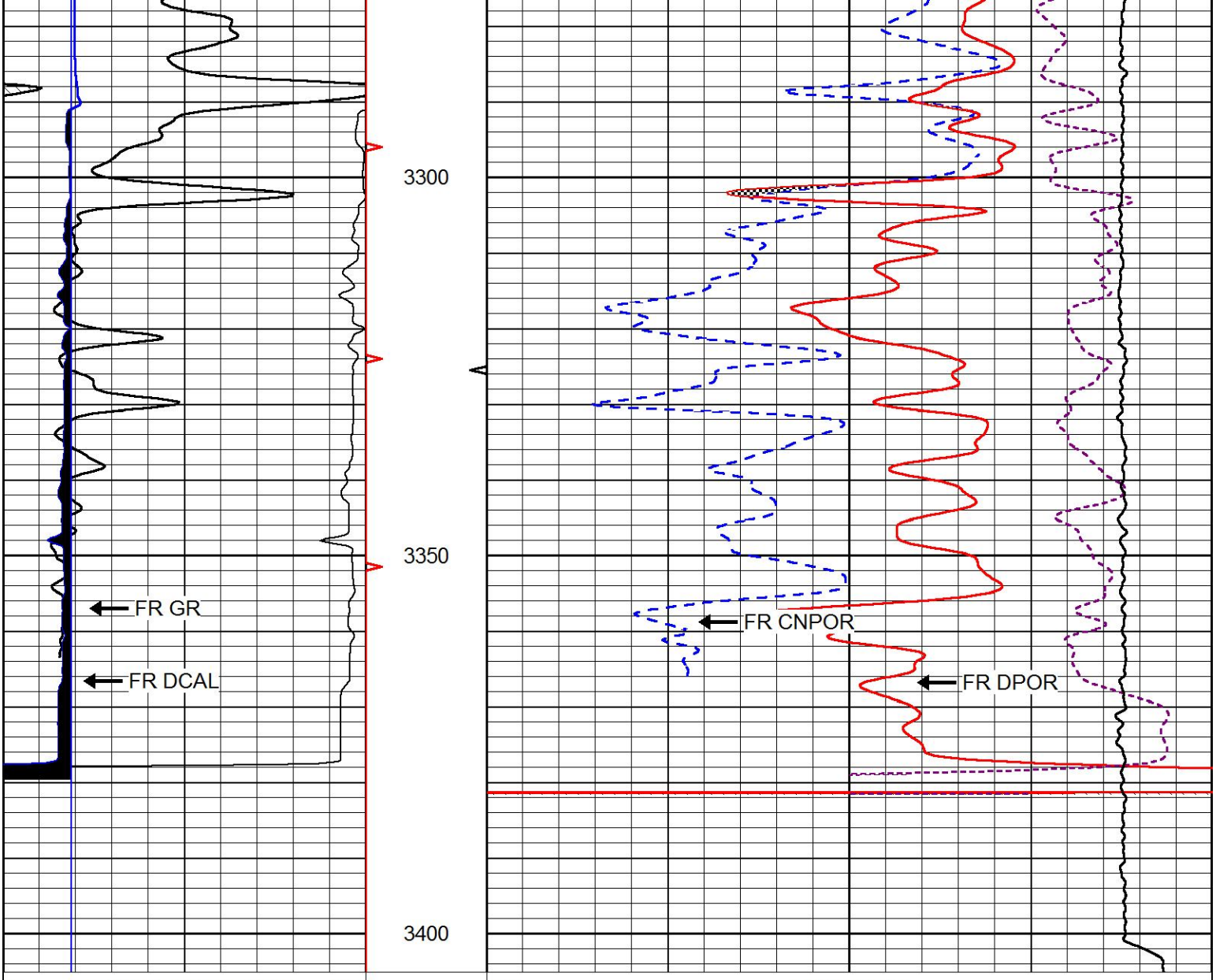



2400
2450
2500
2550
2600


2650
2700
2750
2800


2850
2900
2950
3000
3050


3100
3150
3200
3250



0	GAMMA RAY (GAPI)	150
6	DCAL (in)	16

30	CNPOR (pu)	-10
30	DPOR (pu)	-10
10000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25

MIDWEST WIRELINE

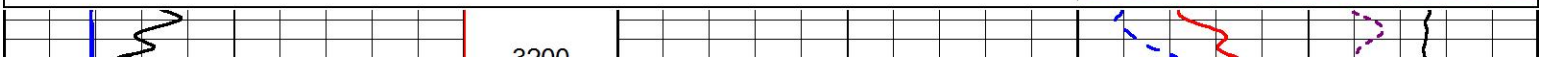
REPEAT SECTION

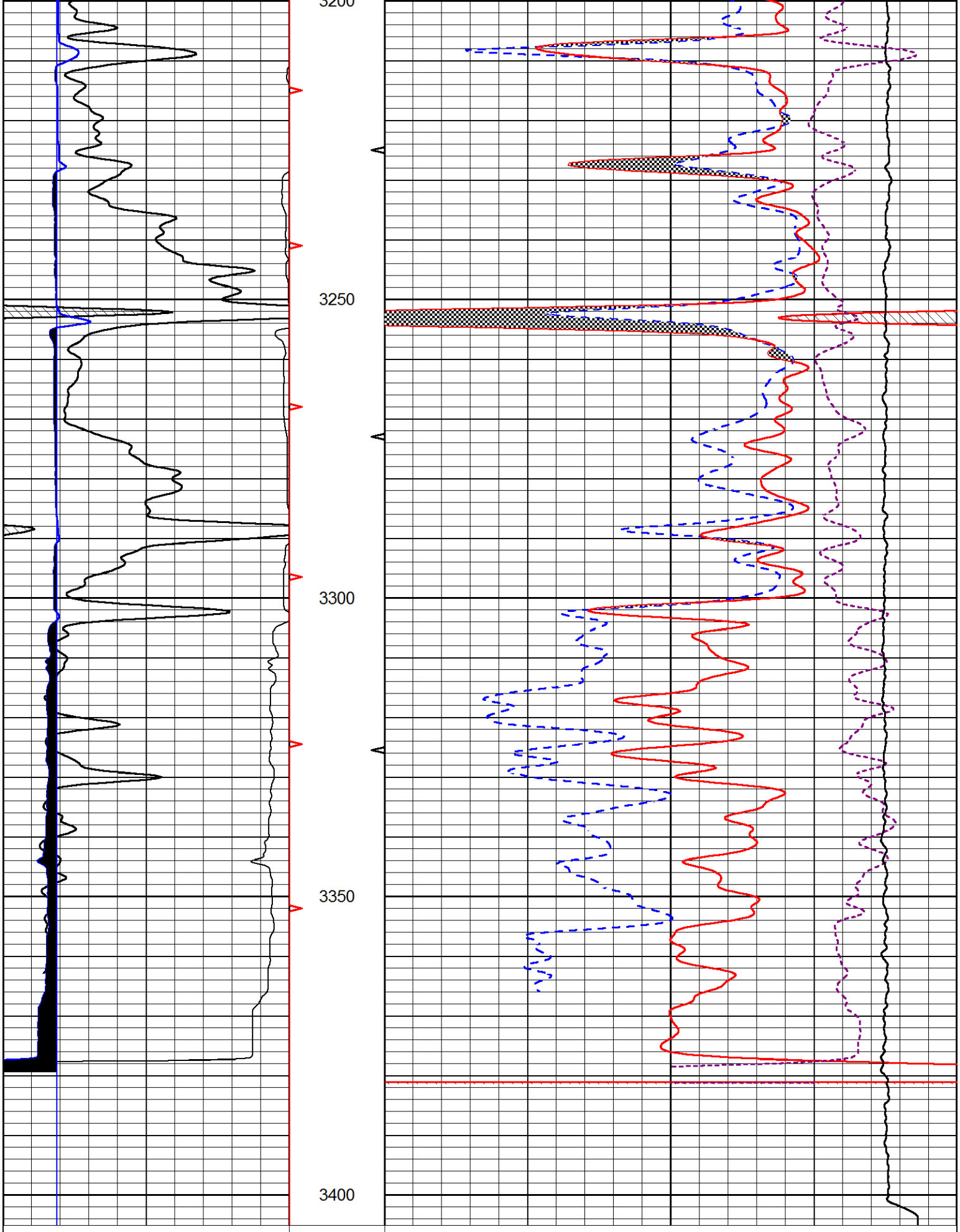
REPEAT PASS

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

0	GAMMA RAY (GAPI)	150
6	DCAL (in)	16

30	CNPOR (pu)	-10
30	DPOR (pu)	-10
10000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25




3200
3250
3300
3350
3400
0
GAMMA RAY (GAPI)
150
6
DCAL (in)
16
30
CNPOR (pu)
-10
30
DPOR (pu)
-10
10000
LINE TENSION (lb)
0

-0.25	CORRECTION (g/cc)	0.25

MIDWEST WIRELINE

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