



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company TDI, Inc.
 Well Munsch #13
 Field Schoenchen
 County Ellis State Kansas

Company TDI, Inc.
 Well Munsch #13
 Field Schoenchen
 County Ellis
 State Kansas

Location: 1087 FSL & 2032 FEL
 SEC 9 TWP 15S RGE 18W
 Permanent Datum Ground Level Elevation 2030
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing
 Other Services
 DIL
 MEL
 Elevation
 K.B. 2040
 D.F.
 G.L. 2030

Date	11/11/2021						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	3750						
Depth Logger	3752						
Bottom Logged Interval	3723						
Top Logged Interval	2900						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	5600						
Density	9.2						
Level	Full						
Max. Rec. Temp. F	114						
Operating Rig Time	3 Hours						
Equipment -- Location	P-108 HAYS						
Recorded By	J. Henrickson						
Witnessed By	Tom Denning						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	223	8.625	24	0	223
Two	7.875	223	TD				
Casing Record							

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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.

Hays Kansas
 South to Norfolk Road, 3/8 West, North Into

Log Measured From: Kelly Bushing 10 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: J. Henrickson
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

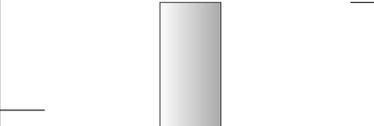
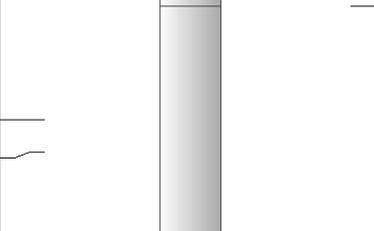
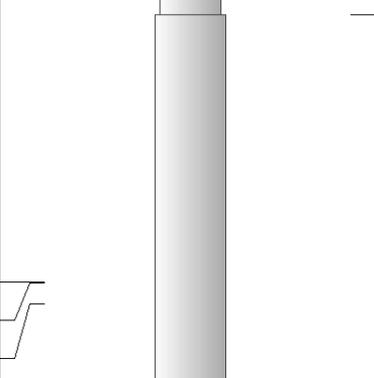
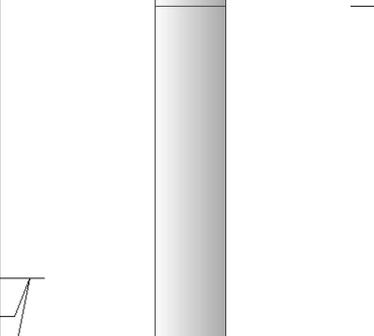
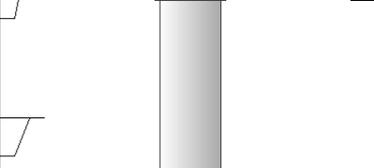
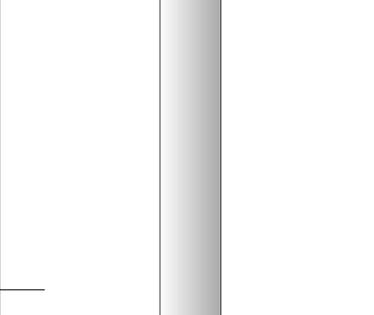
Primary Witness: Tom Denning
 Secondary Witness: Herb Deines
 Secondary Witness:
 Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\tdi_munsch_13.db
Dataset field/well/stackml/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	118	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	580	62	Off	3752

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (10-PSI)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (915-956)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					
CILD	8.00		DIL-PSI HIGH TEMP (959-1032)	18.50	3.50	220.00

CILM 4.70

SP 0.20

Dataset: tdi_munsch_13.db: field/well/stackml/pass4.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in



MIDWEST WIRELINE

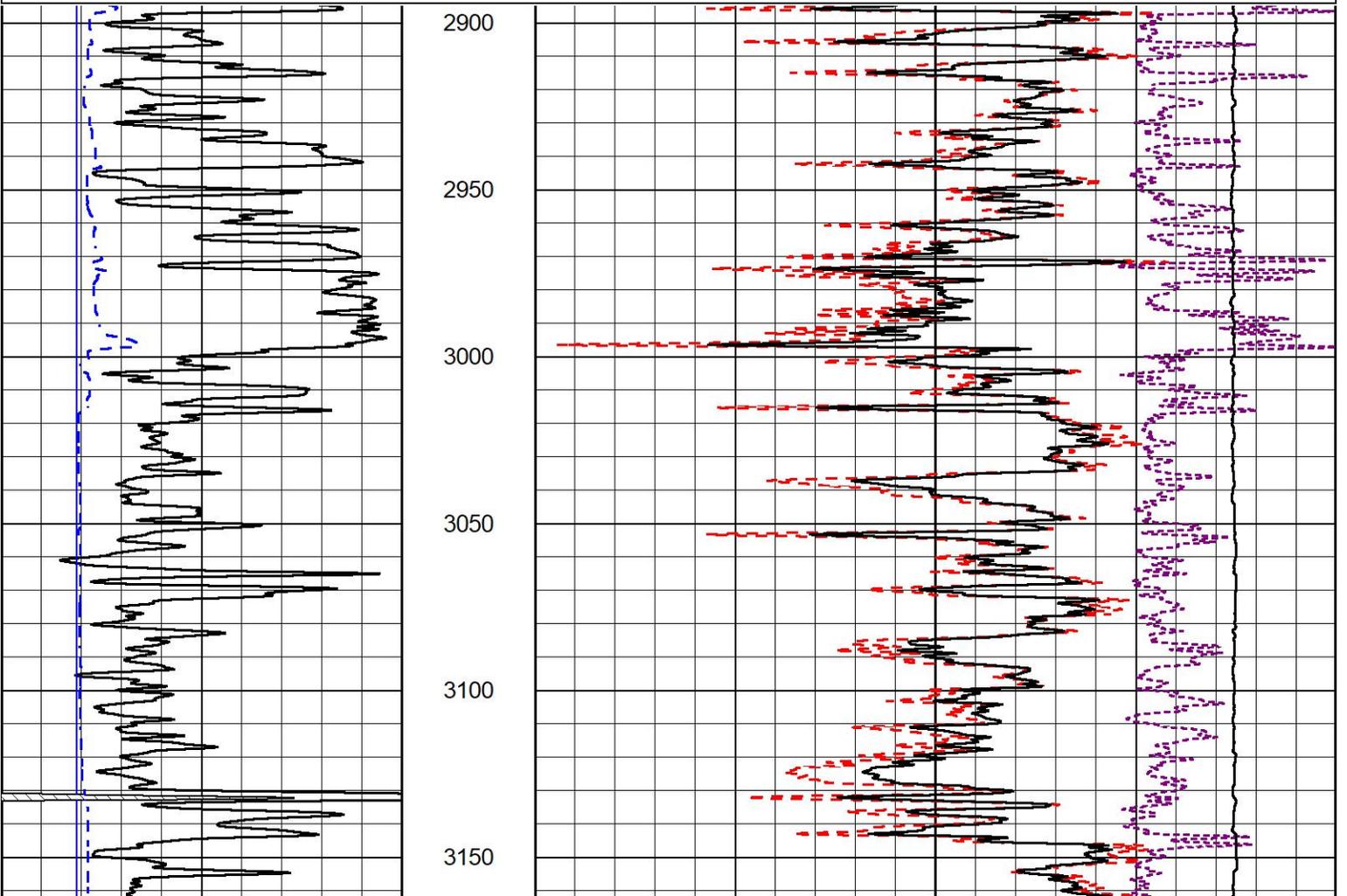
2" SCALE BULK DENSITY

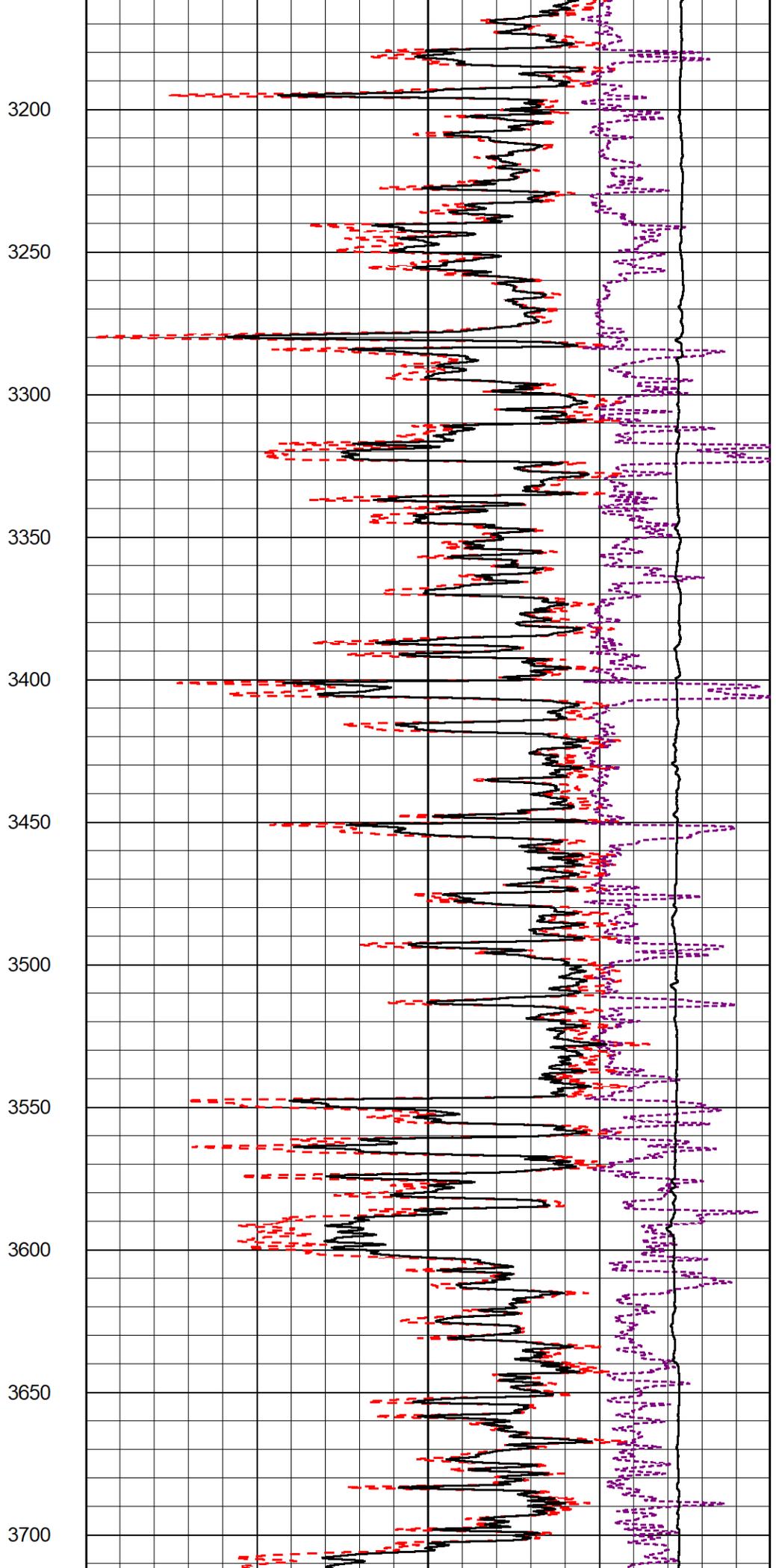
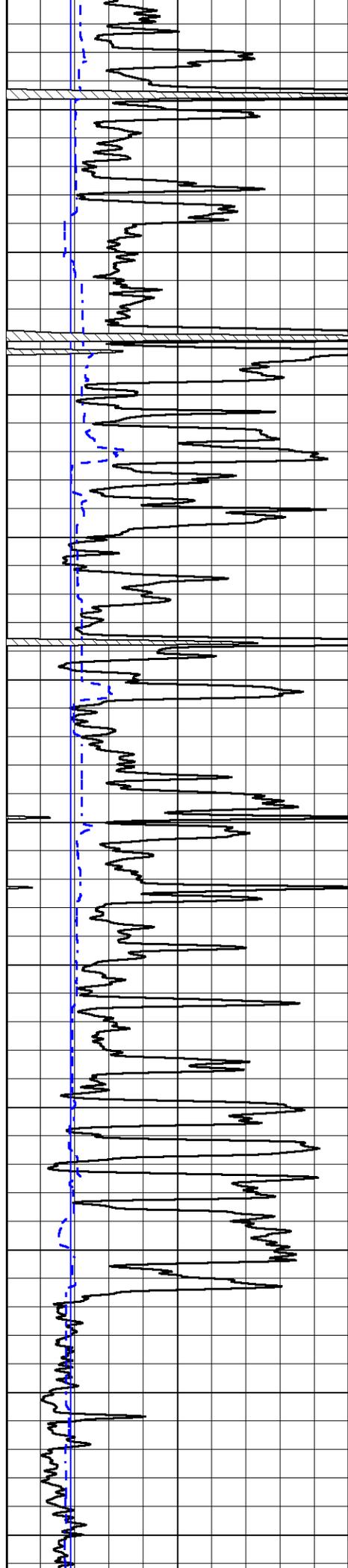
MAIN PASS

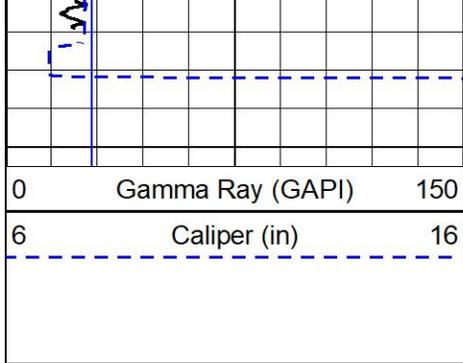
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 Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

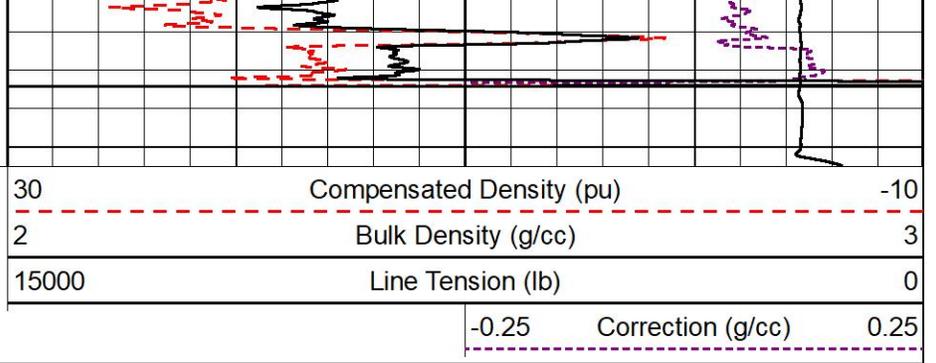
30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
	-0.25 Correction (g/cc)	0.25







3750

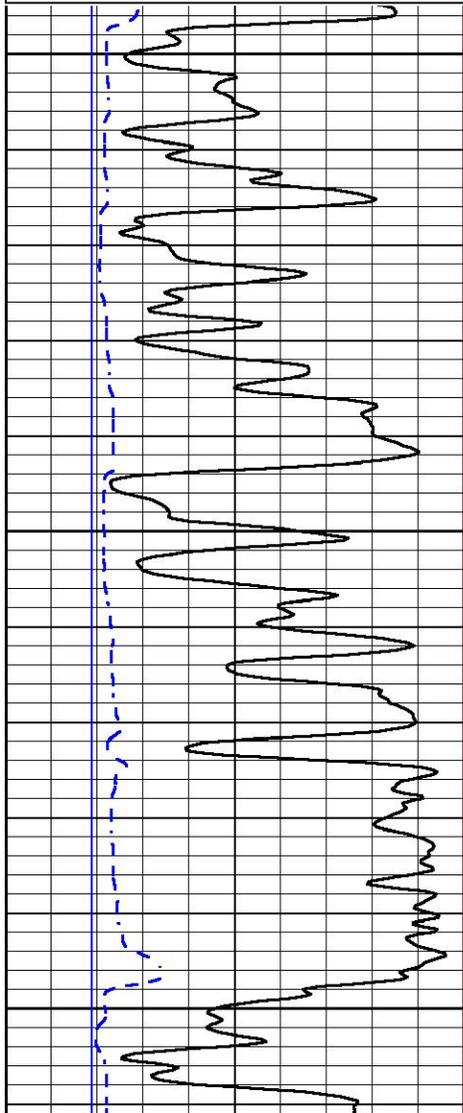
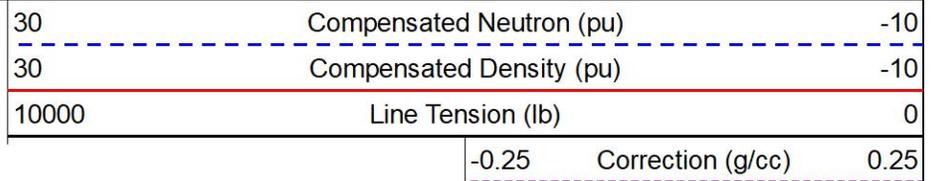
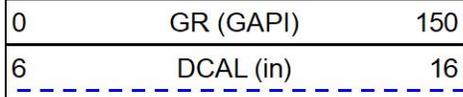


MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

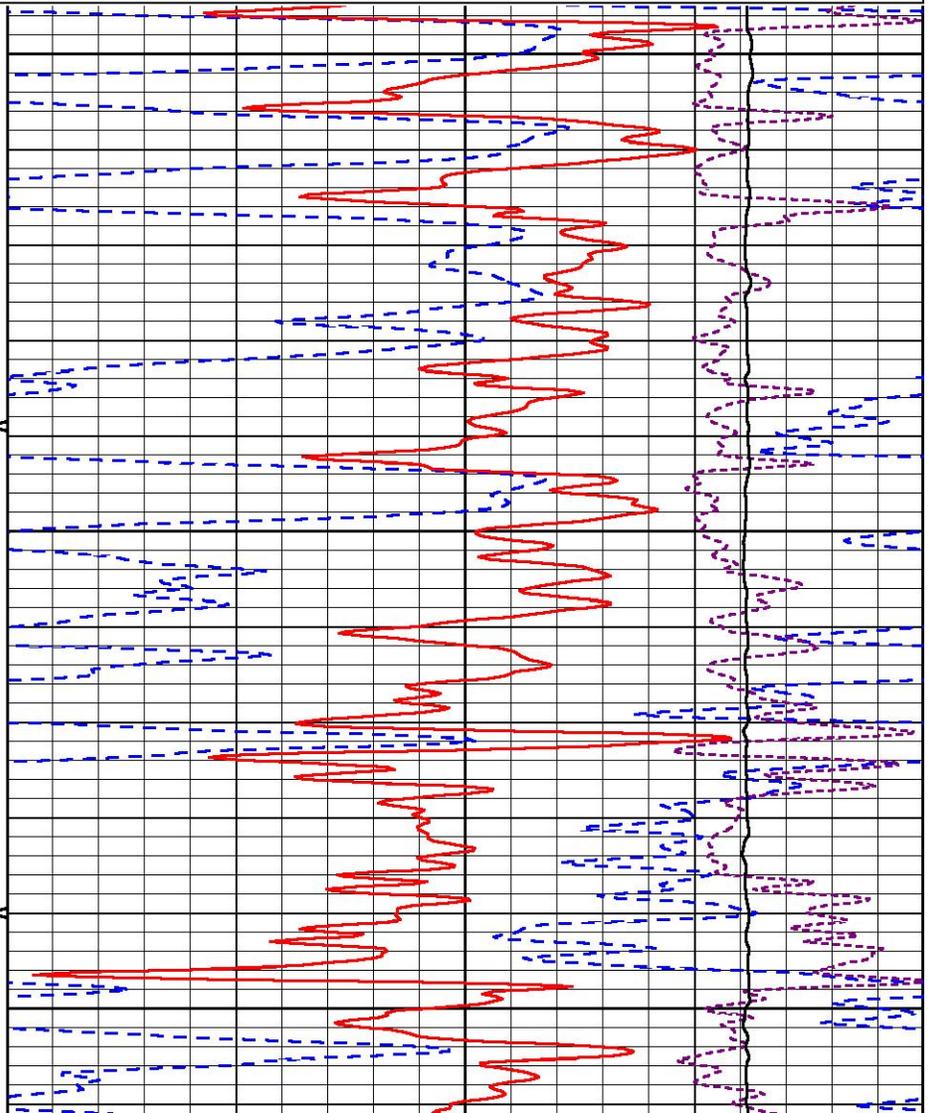
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 Dataset Pathname stackml/pass4.1
 Presentation Format _CNDLS~1
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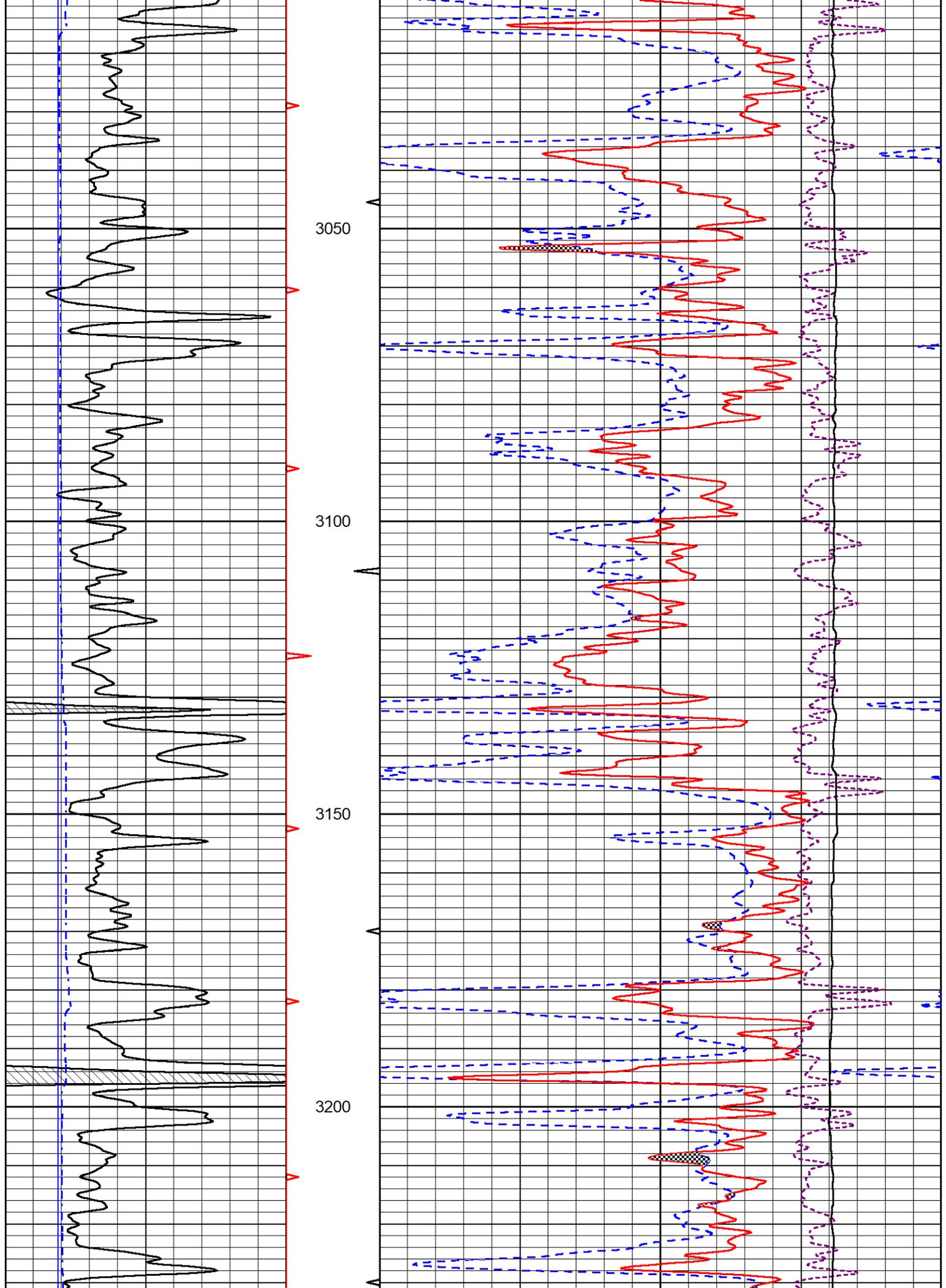


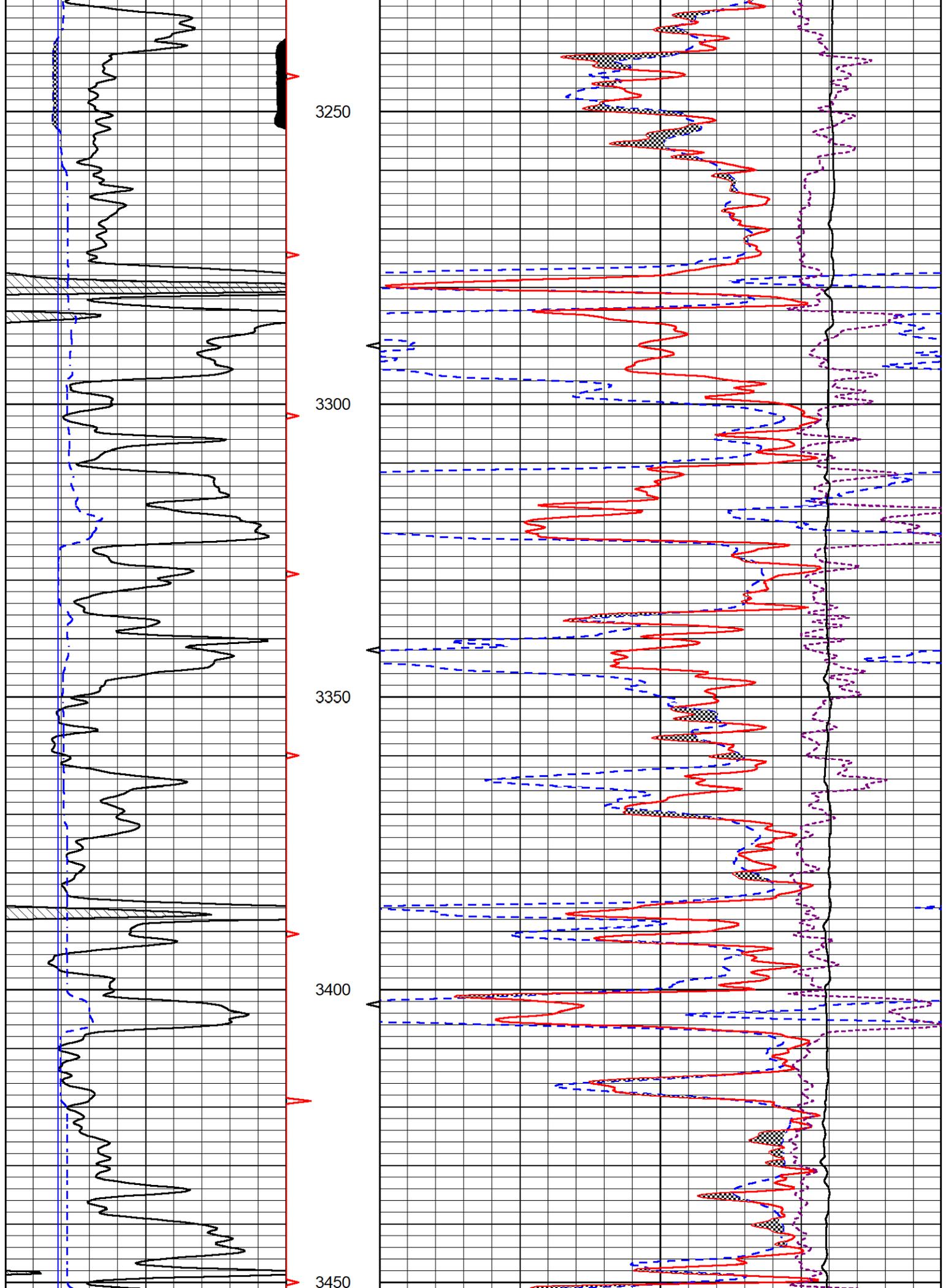
2900

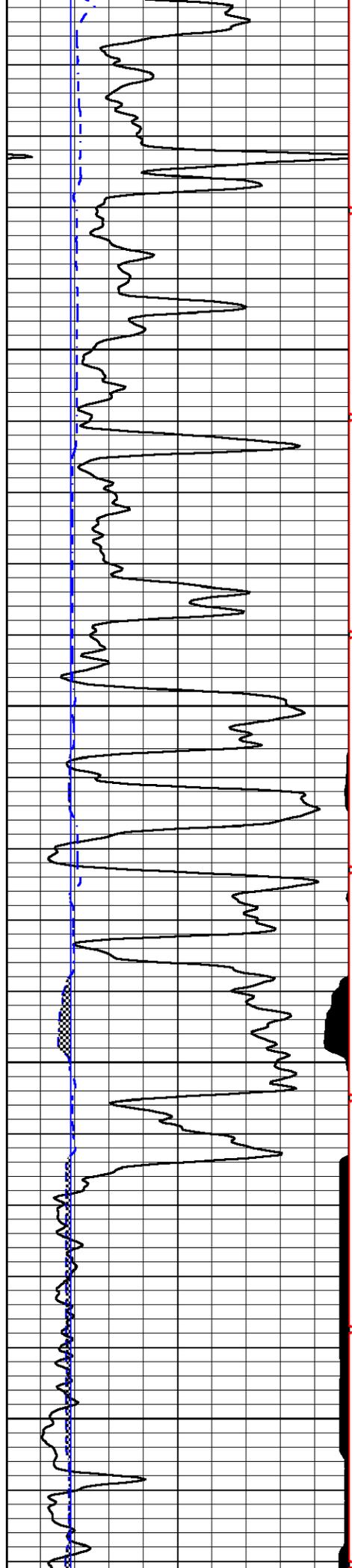
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3000







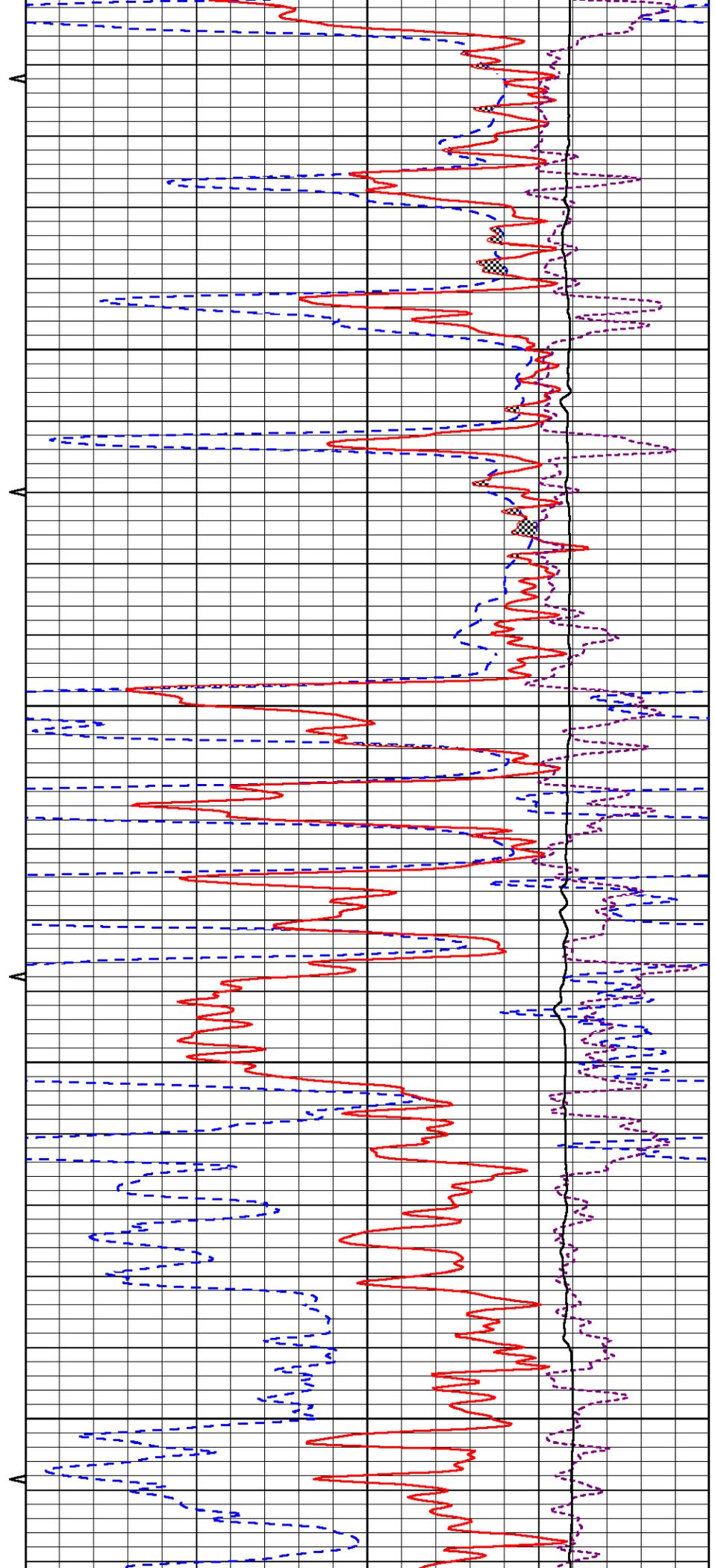


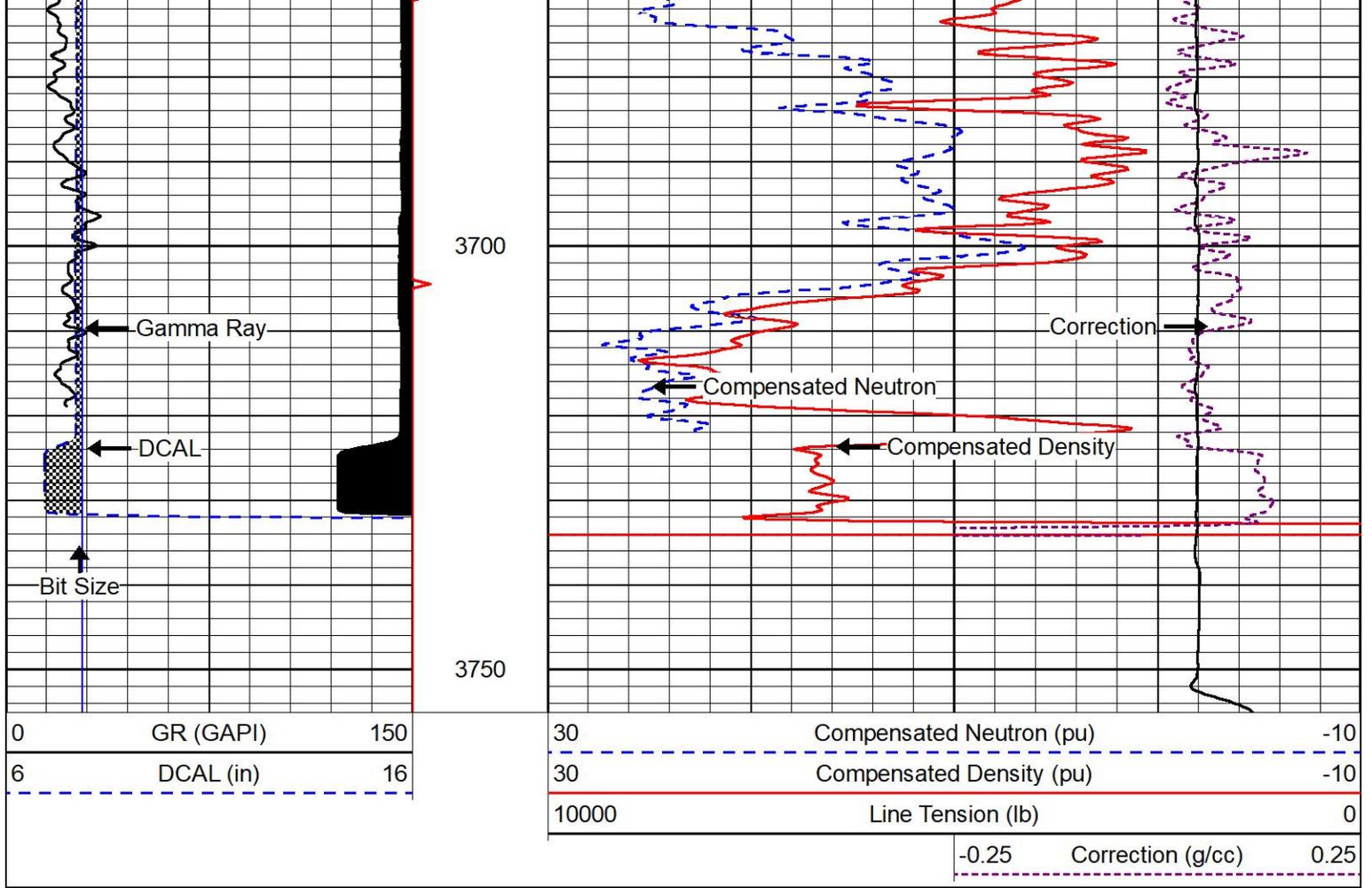
3500

3550

3600

3650





MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File tdi_munsch_13.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _cndlspec
 Dataset Creation Thu Nov 11 12:30:06 2021
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	30	Compensated Neutron (pu)	-10	
6	DCAL (in)	16	30	Compensated Density (pu)	-10	
			10000	Line Tension (lb)	0	
				-0.25	Correction (g/cc)	0.25

