MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company TDI, Inc.
Well Linda #1
Field Dechant
County Ellis State Kansas

Location: API # : 15-051-26999-00-00
SE NE NW NW
595' FNL & 1155' FWL
SEC 11 TWP 15S RGE 19W

Other Services
DIL/MEL

Elevation
K.B. 2056'
D.F.
G.L. 2046'

Permanent Datum Ground Level Elevation 2046'
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Company	TDI, Inc.
Well	Linda #1
Field	Dechant
County	Ellis
State	Kansas
Date	7/1/2021
Run Number	One
Type Log	CNL/CDL
Depth Driller	3750'
Depth Logger	3754'
Bottom Logged Interval	3725'
Top Logged Interval	2900'
Type Fluid In Hole	Chemical
Salinity, PPM CL	11600
Density	9.2
Level	Full
Max. Rec. Temp. F	114 Deg F
Operating Rig Time	2.5 Hours
Equipment -- Location	P-108 | HAYS
Recorded By	T. Martin
Witnessed By	Herb Deines

Borehole Record

Run No.	Bit	From	To
One	12.25"	00'	213.56'
Two	7.875"	213.56'	TD

Casing Record

Size	Wgt.	From	To
8.625"	23#	00'	213.56'
		Tom Denning	

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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.

Antonino, KS, 1 S, 1.5 W, S 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	This Log Record Was Witnessed By
Engineer: T. Martin	Primary Witness: Herb Deines
Operator:	Secondary Witness: Tom Denning
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 (89-M&W)	3.00	3.50	50.00
GR	40.58					
CNLSC	37.48		CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	36.73					
			CDL-M&W (915-956)	8.50	4.00	250.00
LSD	28.43					
DCAL	28.42					
SSD	27.93					
			ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
MCAL	19.83					
MI	19.83					
MN	19.83					
RLL3F	15.80					
RLL3	15.80					
			DIL-PSI HIGH TEMP (959-1032)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					

Dataset:	tdi_linda_#1.db: field/well/StkMl/pass3.1
Total length:	43.08 ft
Total weight:	685.00 lb
O.D.:	4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\tdi_linda_#1.db
Dataset field/well/StkMl/pass3.1/_vars_

Top - Bottom

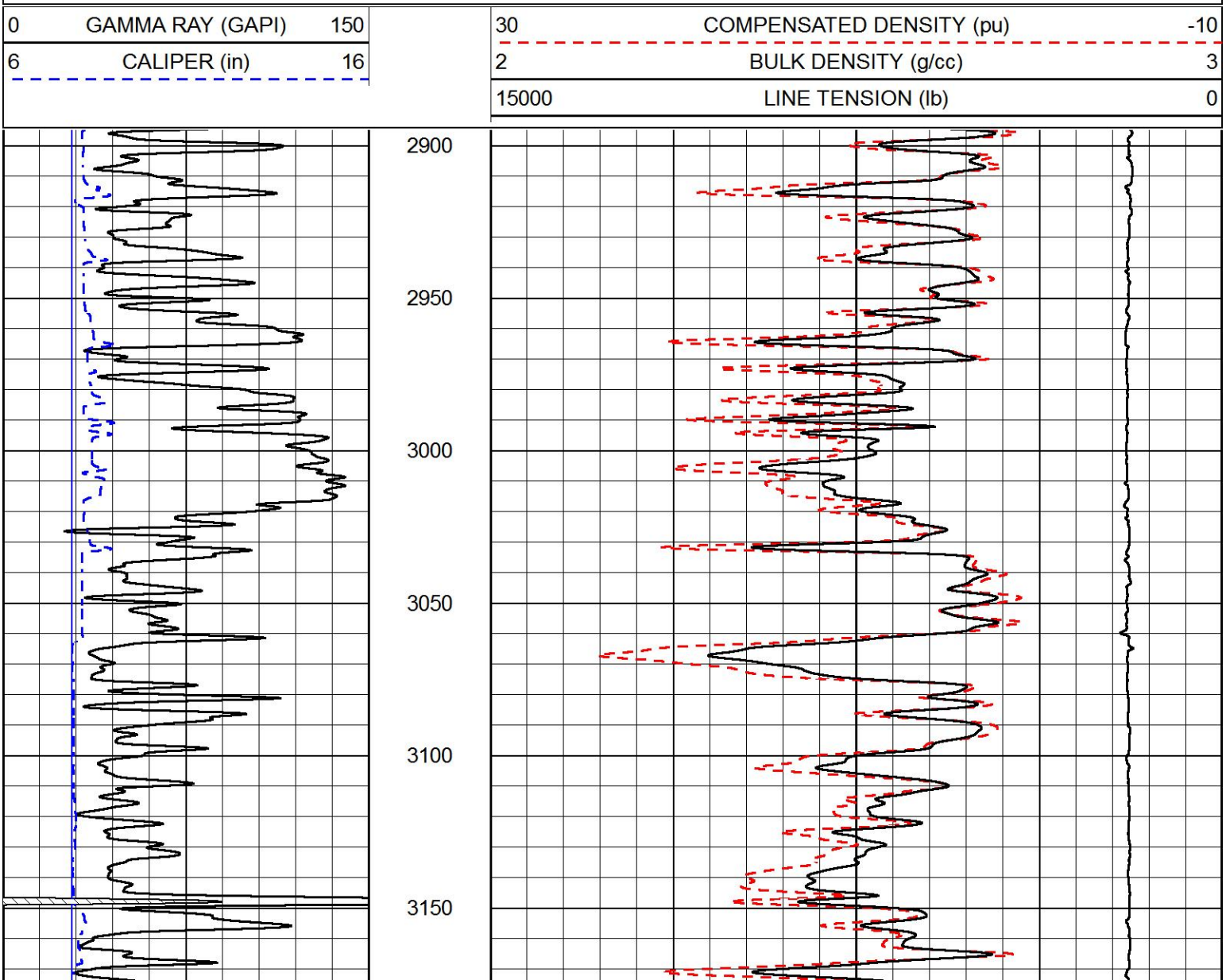
A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	114	5.5	0	1	2	2.71
NPORSEL	**PERFS**	**SNDERR mmho/m**	**SNDERRM mmho/m**	**SPSHIFT mV**	**SRFTEMP degF**	**SZCOR**	**TDEPTH ft**
Limestone	0	0	0	205	80	Off	3754

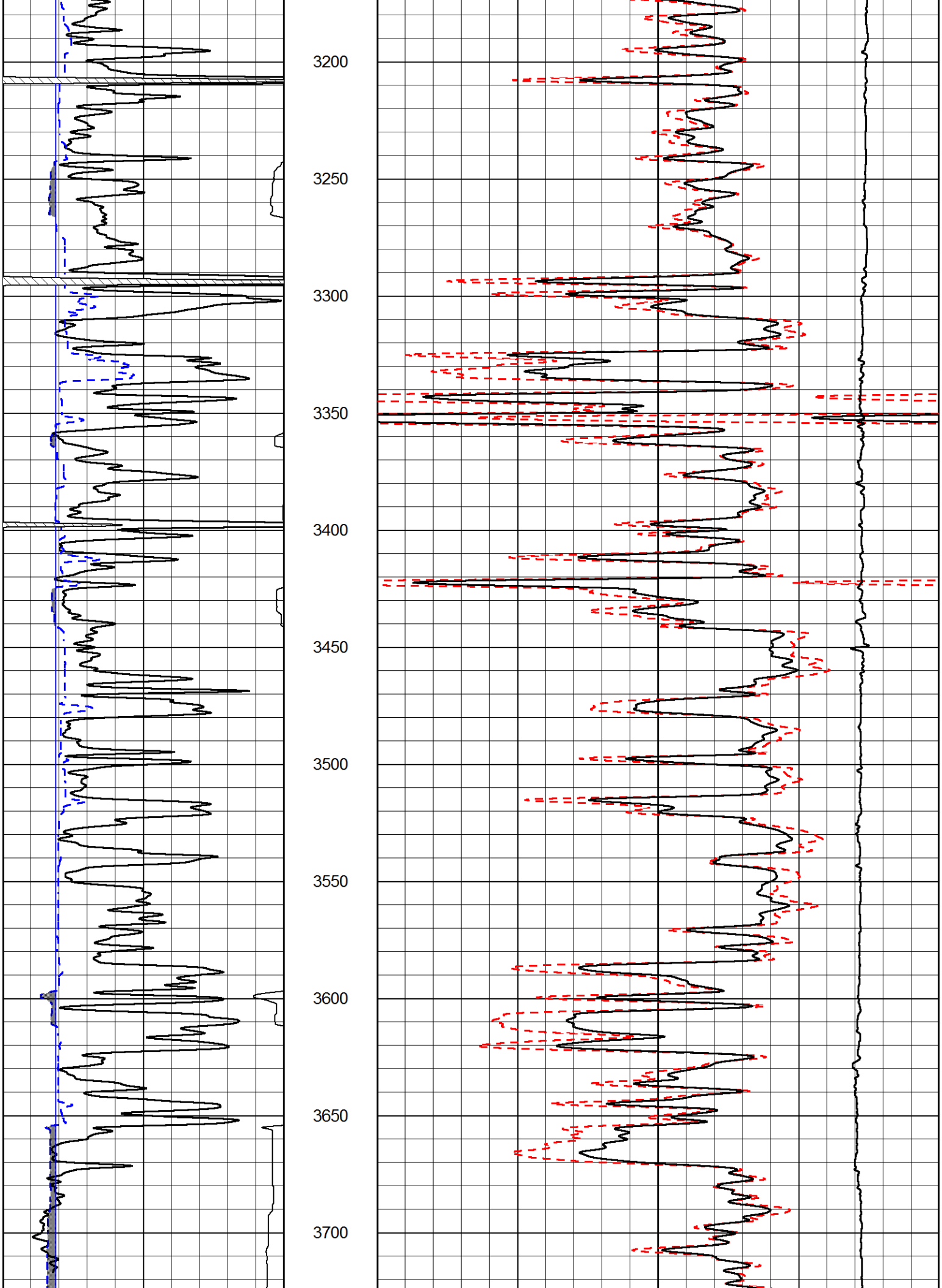
MIDWEST WIRELINE

2" SCALE BULK DENSITY

MAIN PASS

Database File	tdi_linda_#1.db
Dataset Pathname	StkMl/pass3.3
Presentation Format	cdl
Dataset Creation	Thu Jul 01 11:14:23 2021
Charted by	Depth in Feet scaled 1:600

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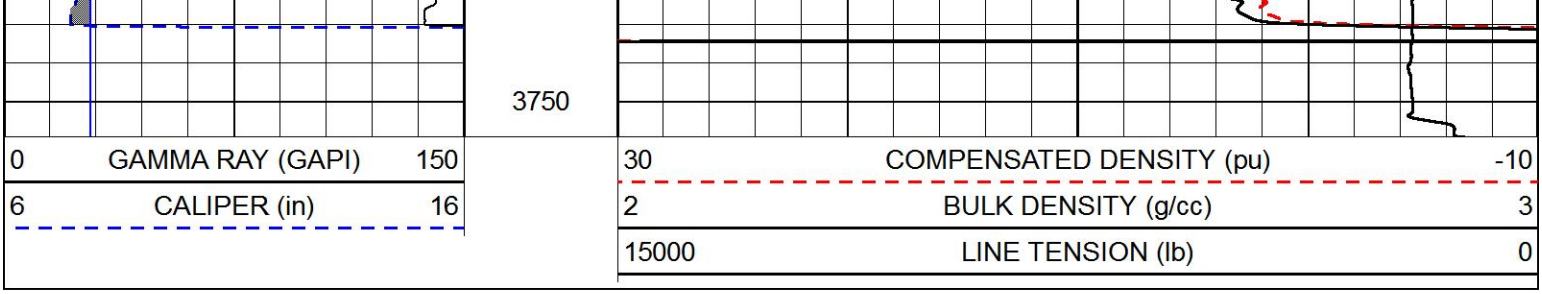
3350
3400
3450
3500
3550
3600
3650
3700

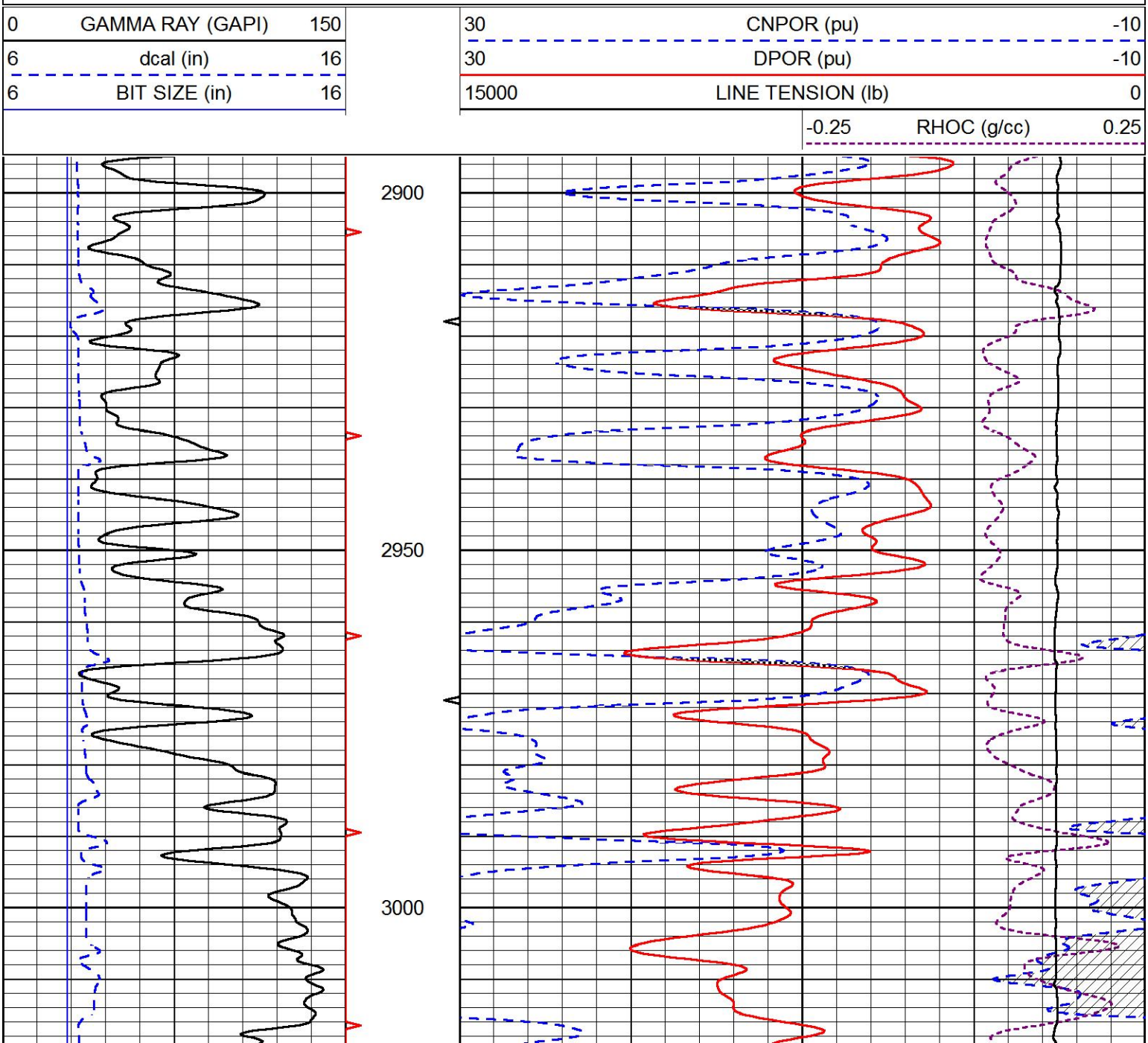


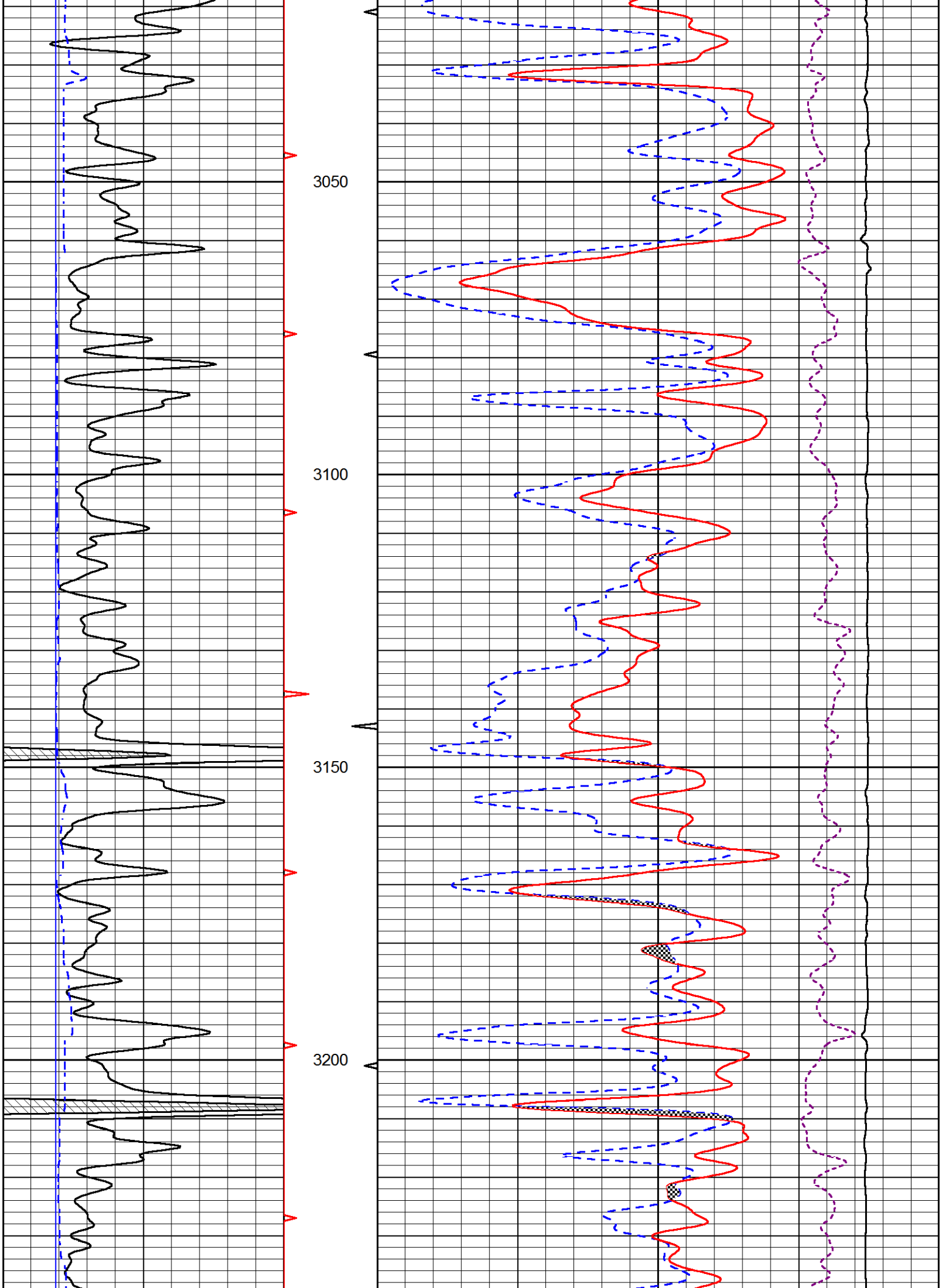
MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

Database File	tdi_linda_#1.db
Dataset Pathname	StkMI/pass3.1
Presentation Format	cndlspec
Dataset Creation	Thu Jul 01 11:49:38 2021
Charted by	Depth in Feet scaled 1:240

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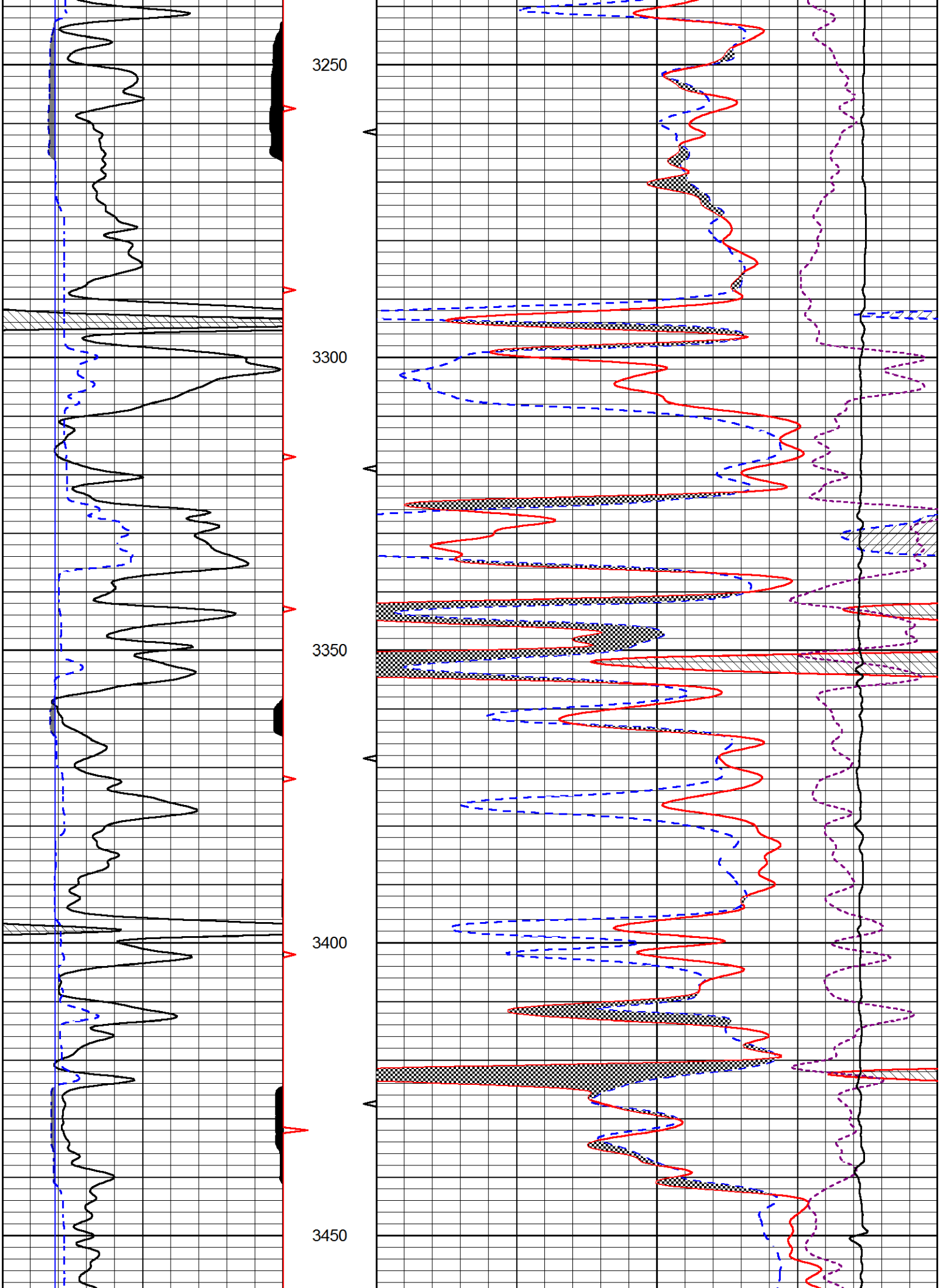
3100
3150
3200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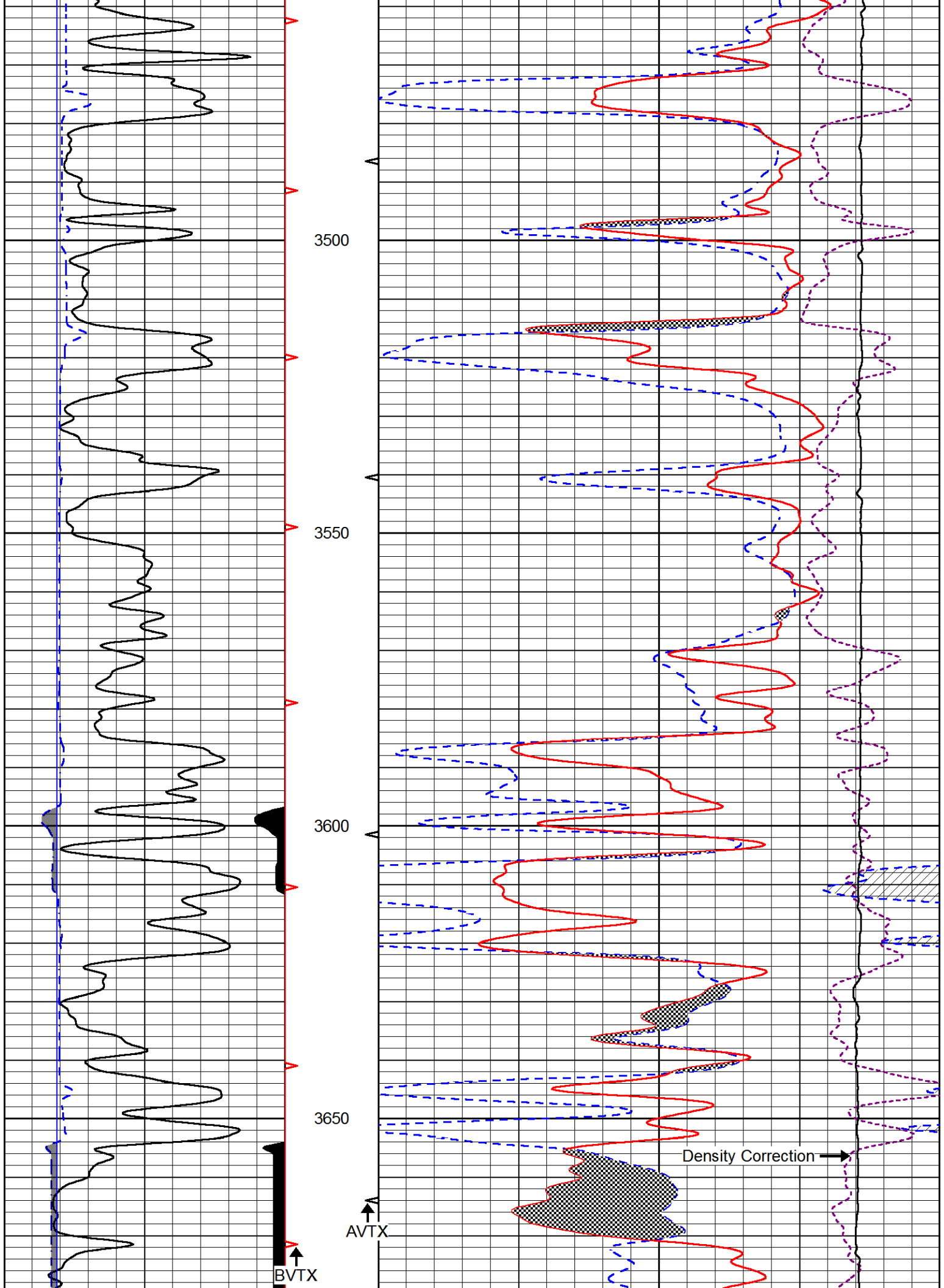
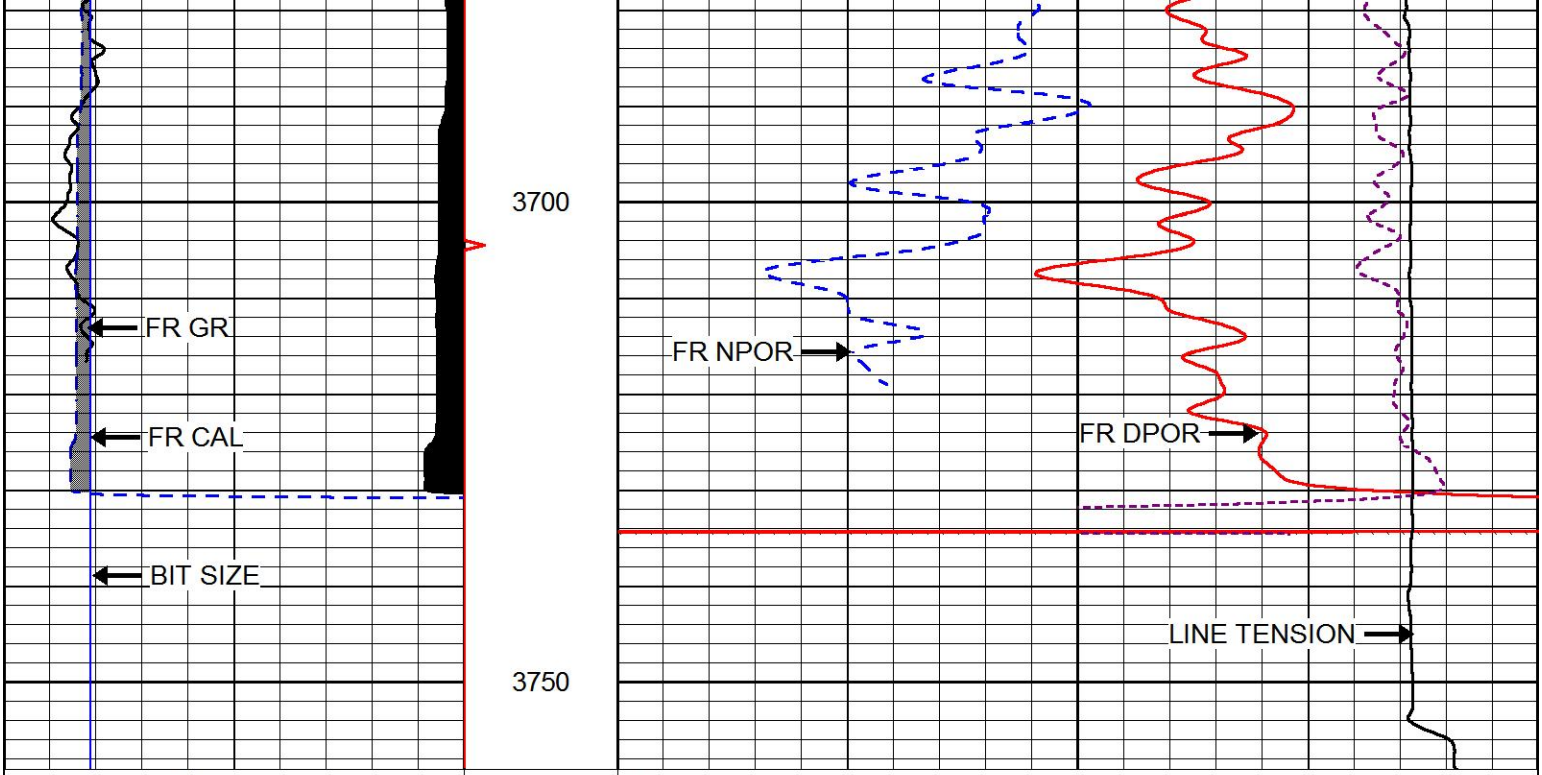

3500
3550
3600
3650
Density Correction
AVTX
BVTX



0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

30	CNPOR (pu)	-10
30	DPOR (pu)	-10
15000	LINE TENSION (lb)	0
-0.25	RHOC (g/cc)	0.25

MIDWEST WIRELINE

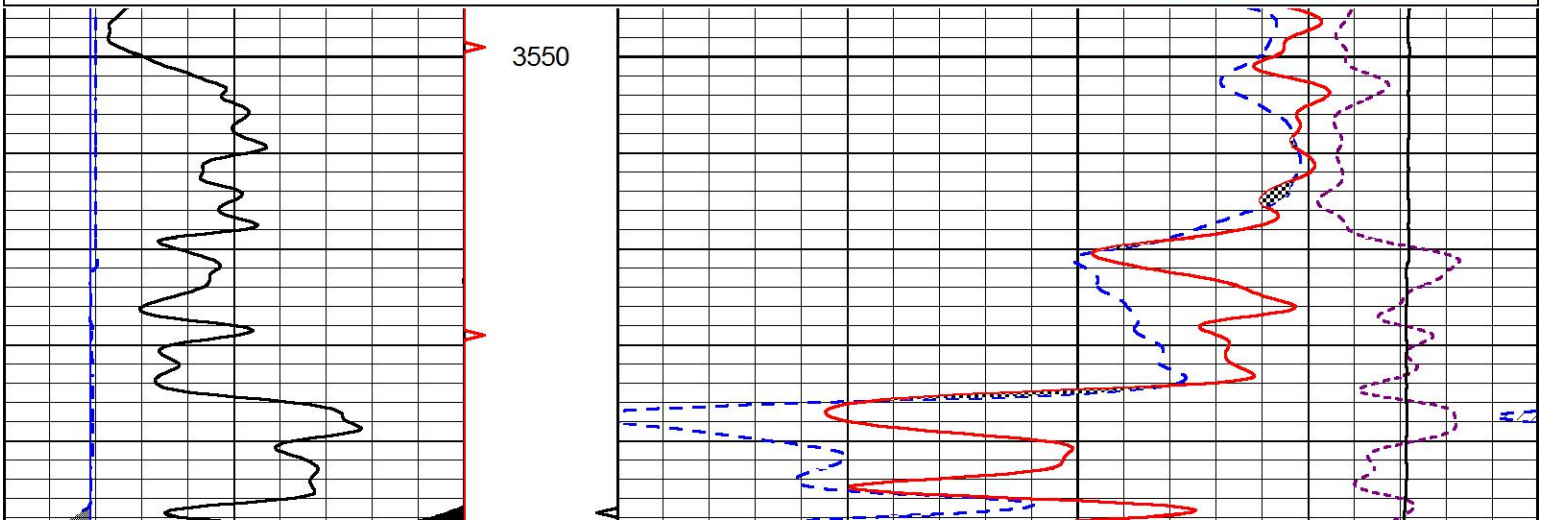
REPEAT SECTION

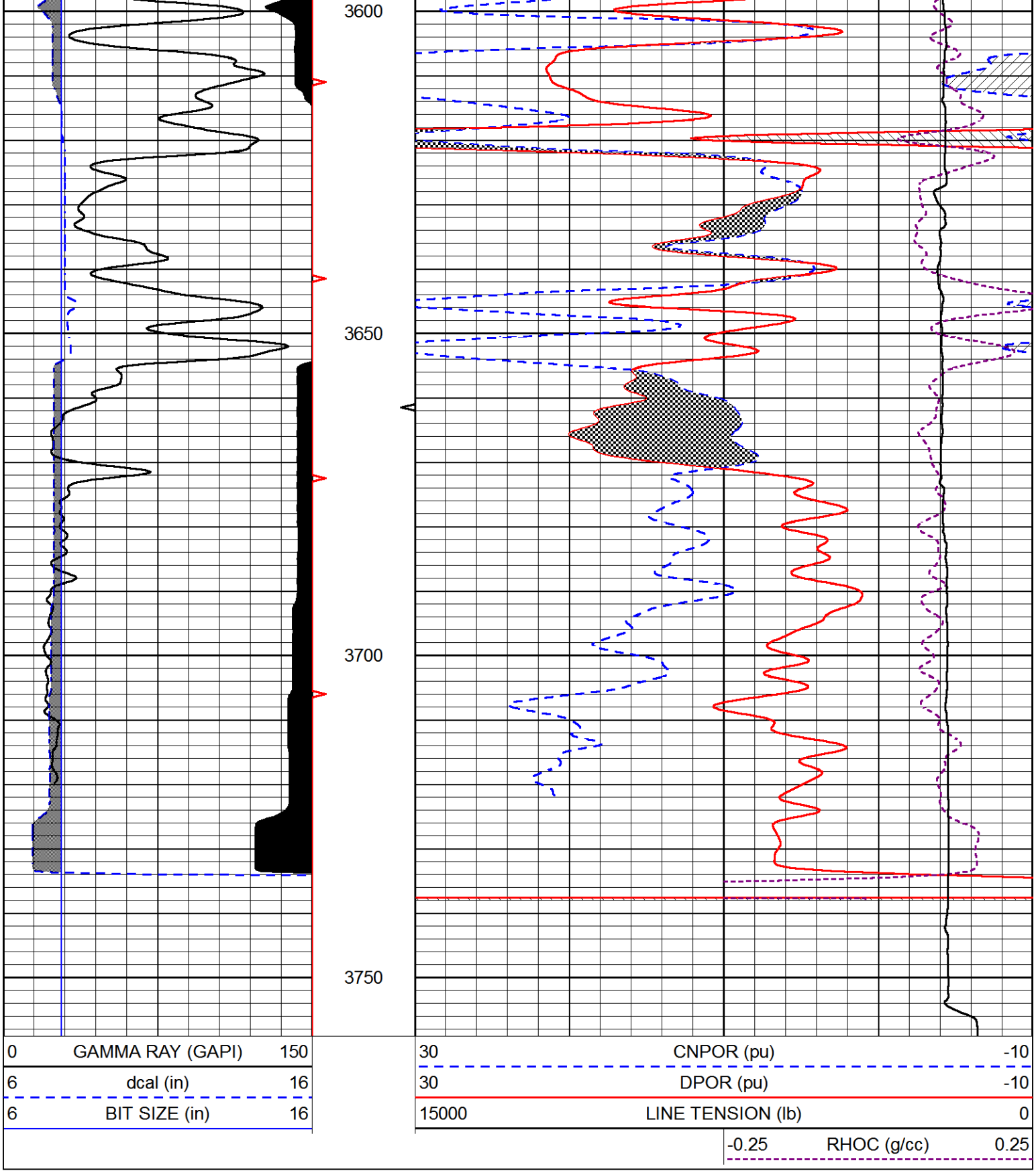
REPEAT PASS

Database File	tdi_linda_#1.db
Dataset Pathname	StkMI/pass2.1
Presentation Format	cndlspec
Dataset Creation	Thu Jul 01 11:34:27 2021
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

30	CNPOR (pu)	-10
30	DPOR (pu)	-10
15000	LINE TENSION (lb)	0
-0.25	RHOC (g/cc)	0.25





Calibration Report

Database File	tdi_linda_#1.db
Dataset Pathname	StkMl/pass3.1
Dataset Creation	Thu Jul 01 11:49:38 2021

Dual Induction Calibration Report

Serial-Model:	959-1032-PSI HIGH TEMP
Calibration Performed:	Thu Feb 25 23:27:57 2021

Loop:	Readings Air	Readings Loop	References Air	References Loop		Results Gain	Results Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-5.750
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-42.500

Microlog Calibration Report

Serial-Model: PSI-02-PSI STKBL ML
Performed: Sat Apr 07 12:01:20 2018

	Readings Zero	Readings Cal	References Zero	References Cal		Results m	Results b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	25000.0000	-1.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	25000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.3000

Compensated Density Calibration Report

Serial-Model: 915-956-M&W
Source / Verifier: /
Master Calibration Performed: Mon May 10 06:44:16 2021

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3668.53	4669.61	cps
Aluminum	2.675	g/cc	710.88	3056.05	cps

Spine Angle = 75.51 Density/Spine Ratio = 0.543

	Size		Reading
Small Ring	4.00	in	1.17
Large Ring	14.00	in	1.05

Compensated Neutron Calibration Report

Serial Number: tk10-MW
Tool Model: M&W
Calibration Performed: Wed Nov 16 11:21:36 2016

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: 89-M&W
Tool Model: M&W
Calibration Performed: Mon May 10 06:44:25 2021

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 6.2 cps

Sensitivity:	0.5200	GAPI/cps

MIDWEST WIRELINE

Company	TDI, Inc.
Well	Linda #1
Field	Dechant
County	Ellis
State	Kansas