



DUAL COMPENSATED POROSITY / MICRO LOG

PIONEER
Pioneer Energy Services

Company **SHAKESPEARE OIL CO. INC.**
Well **CL COMMUNITY #1-30**
Field **WILDCAT**
County **SCOTT** State **KANSAS**

Location: API #: 15-171-21256-00-00

Other Services

118' FNL & 2456' FWL
SEC 30 TWP 16S RGE 32W

DIL
BHCS

Permanent Datum **GROUND LEVEL** Elevation **2921'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 2931'
D.F. N/A
G.L. 2921'

Date

7/21/2019

Run Number

ONE

Type Log

CNL / CDL / ML

Depth Driller

4725'

Depth Logger

4724'

Bottom Logged Interval

4703'

Top Logged Interval

3600'

Type Fluid In Hole

CHEMICAL

Salinity, PPM CL

4000

Density

9.3

Level

FULL

Max. Rec. Temp. F

123 DEG/F

Operating Rig Time

5 HOURS

Equipment -- Location

P-108 HAYS

Recorded By

J. HENRICKSON

Witnessed By

VERN SCHRAG

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

ONE

12.25"

0

265'

8.625"

23#

0

265'

TWO

7.875"

265'

TD

<<< Fold Here >>>

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.

SCOTT CITY KANSAS
11 NORTH TO INGRESS, 1/2 NW ON TRAIL, NORTH INTO

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: VERN SCHRAG
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 100	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 0	degF 0	Off	ft 0

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	29.90			CNT-M&W (tk10-MW)	5.50	3.50	100.00
	29.15						
LSD DCAL SSD	20.85 20.83 20.35			CDL-M&W (144-84)	8.50	4.00	250.00
RLL3 RLL3F	15.80 15.79						
CILD	8.00			DIL-M&W (PSI 988)	18.50	3.50	220.00

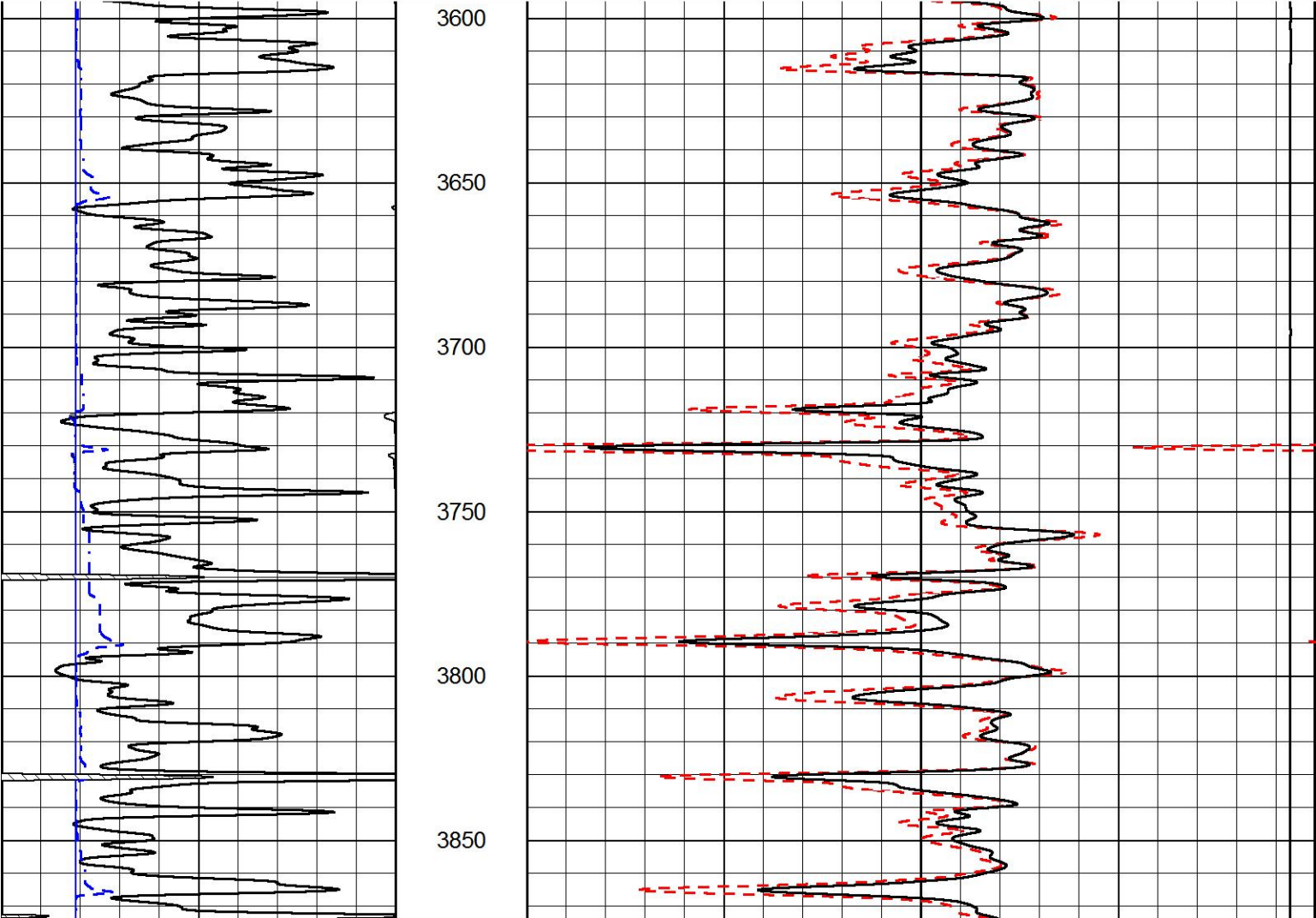
CILM	4.70								
SP	0.20								
Dataset: shakespeare_cl_community_1_30.db: field/well/stack/pass3.1 Total length: 35.50 ft Total weight: 620.00 lb O.D.: 4.00 in									

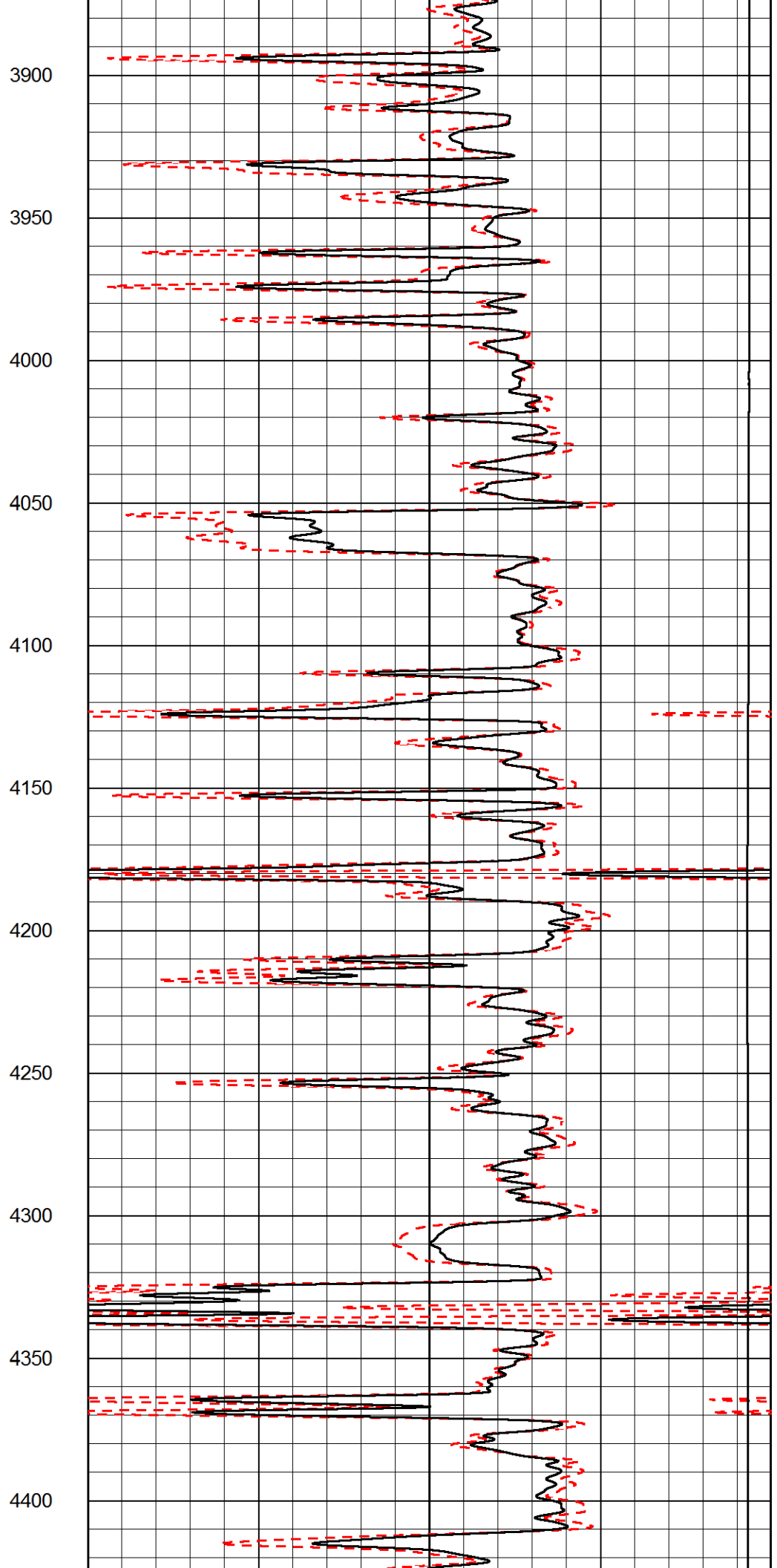
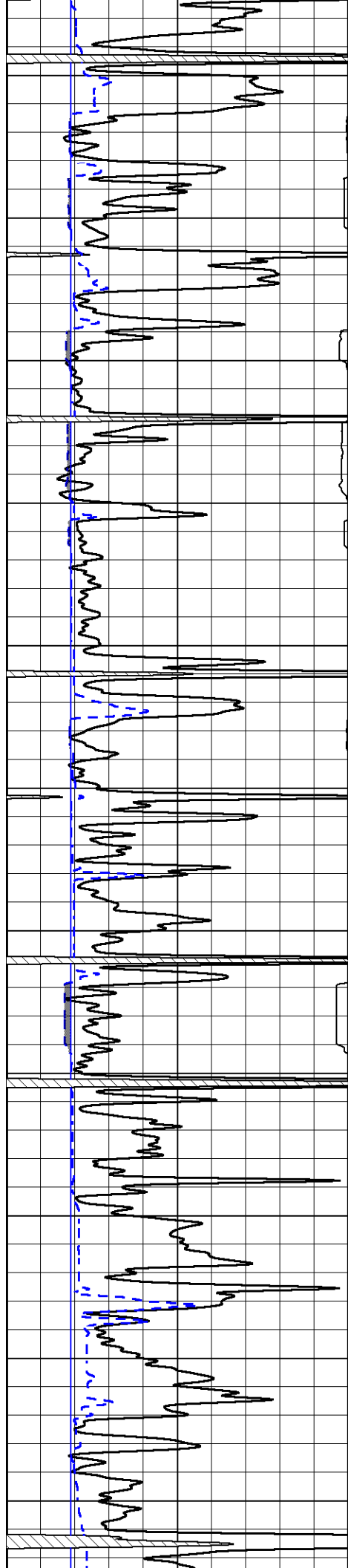


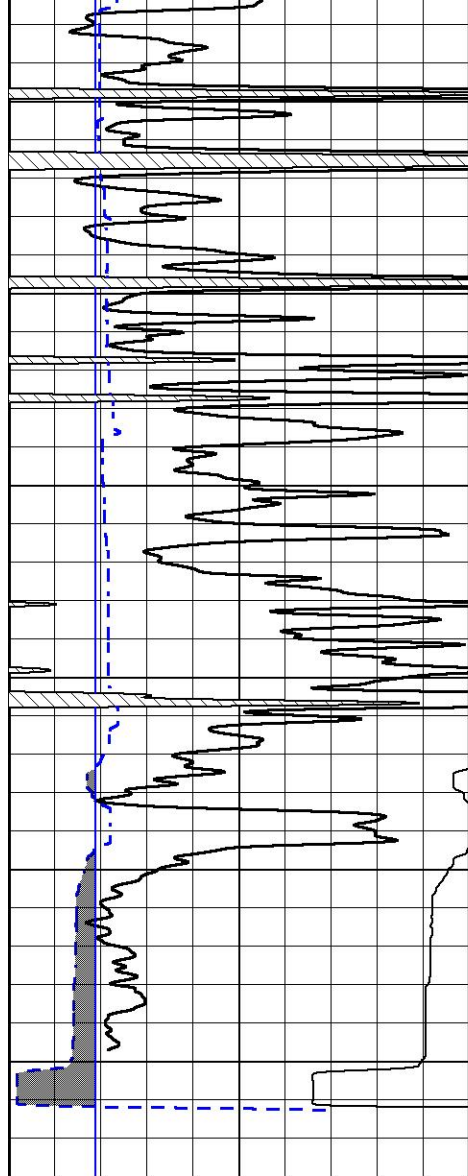
MAIN PASS

Database File	shakespeare_cl_community_1_30.db
Dataset Pathname	stack/pass3.1
Presentation Format	cdl
Dataset Creation	Sun Jul 21 18:48:39 2019
Charted by	Depth in Feet scaled 1:600

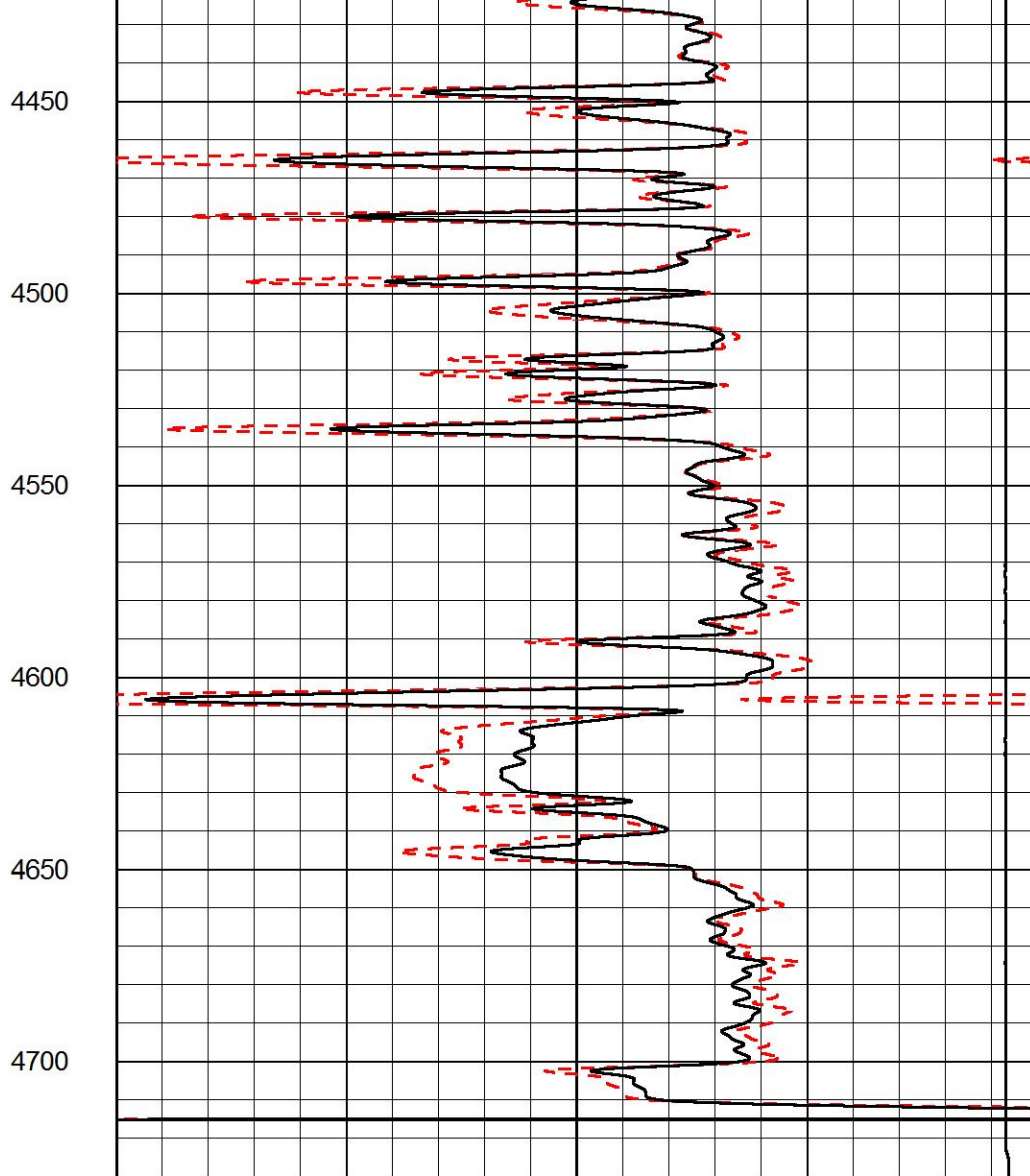
0	GAMMA RAY (GAPI)	150	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	2	BULK DENSITY (g/cc)	3
			15000	LINE TENSION (lb)	0







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



MAIN PASS

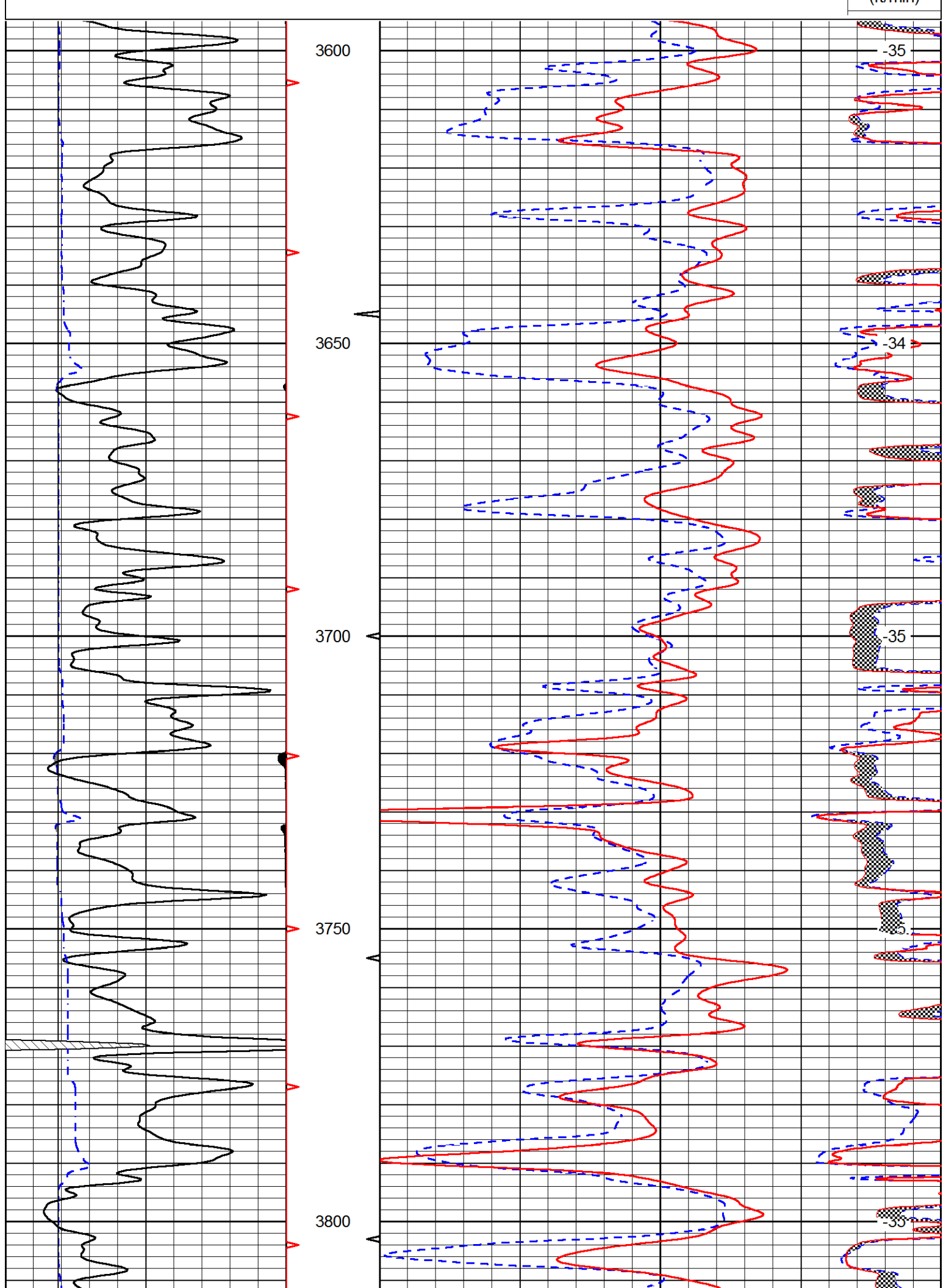
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Dataset Pathname stack/pass3.1
Presentation Format cnlcdm1
Dataset Creation Sun Jul 21 18:48:39 2019
Charted by Depth in Feet scaled 1:240

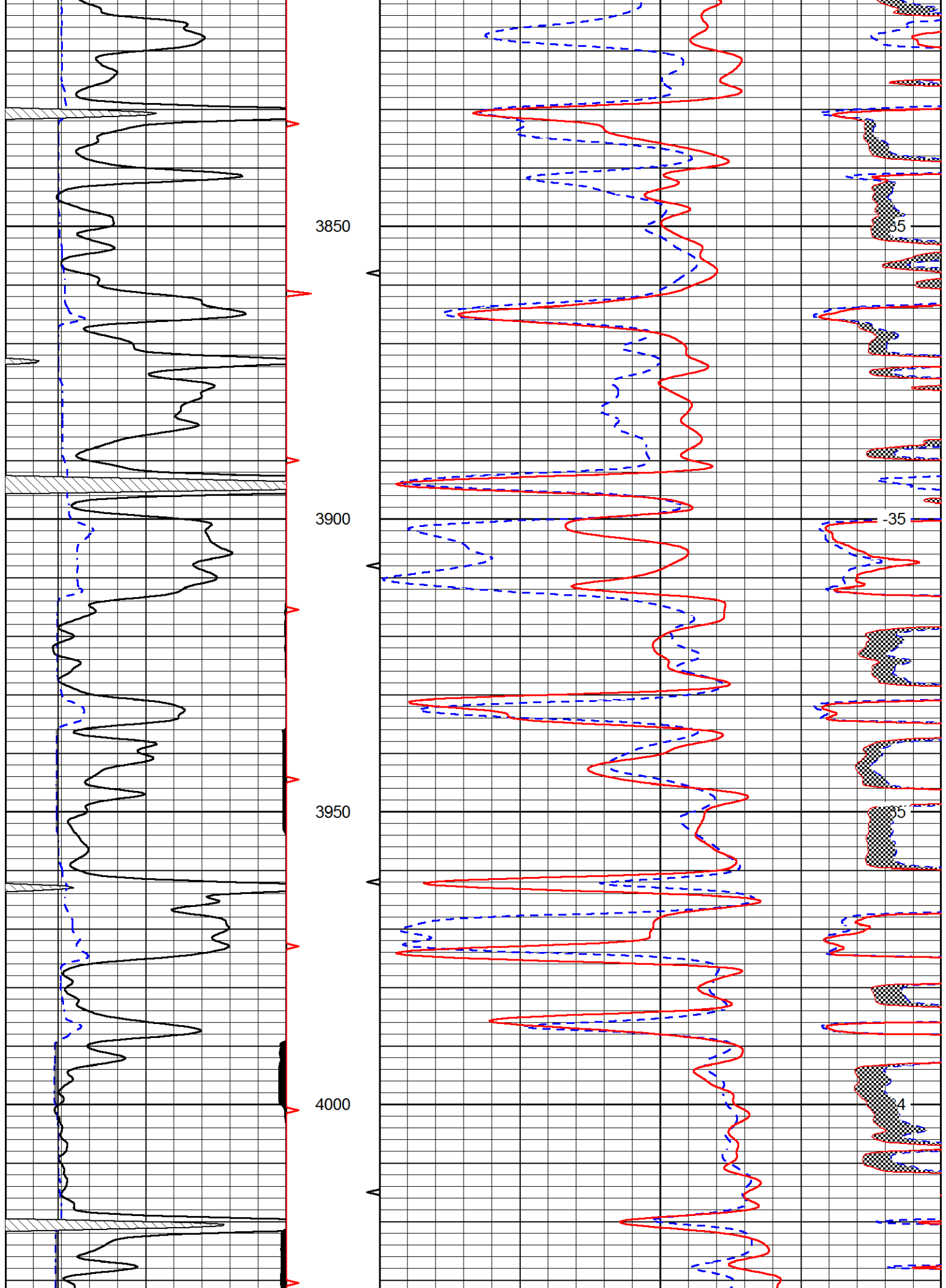
0 Gamma Ray (GAPI) 150
6 Caliper (in) 16
6 Bit Size 16

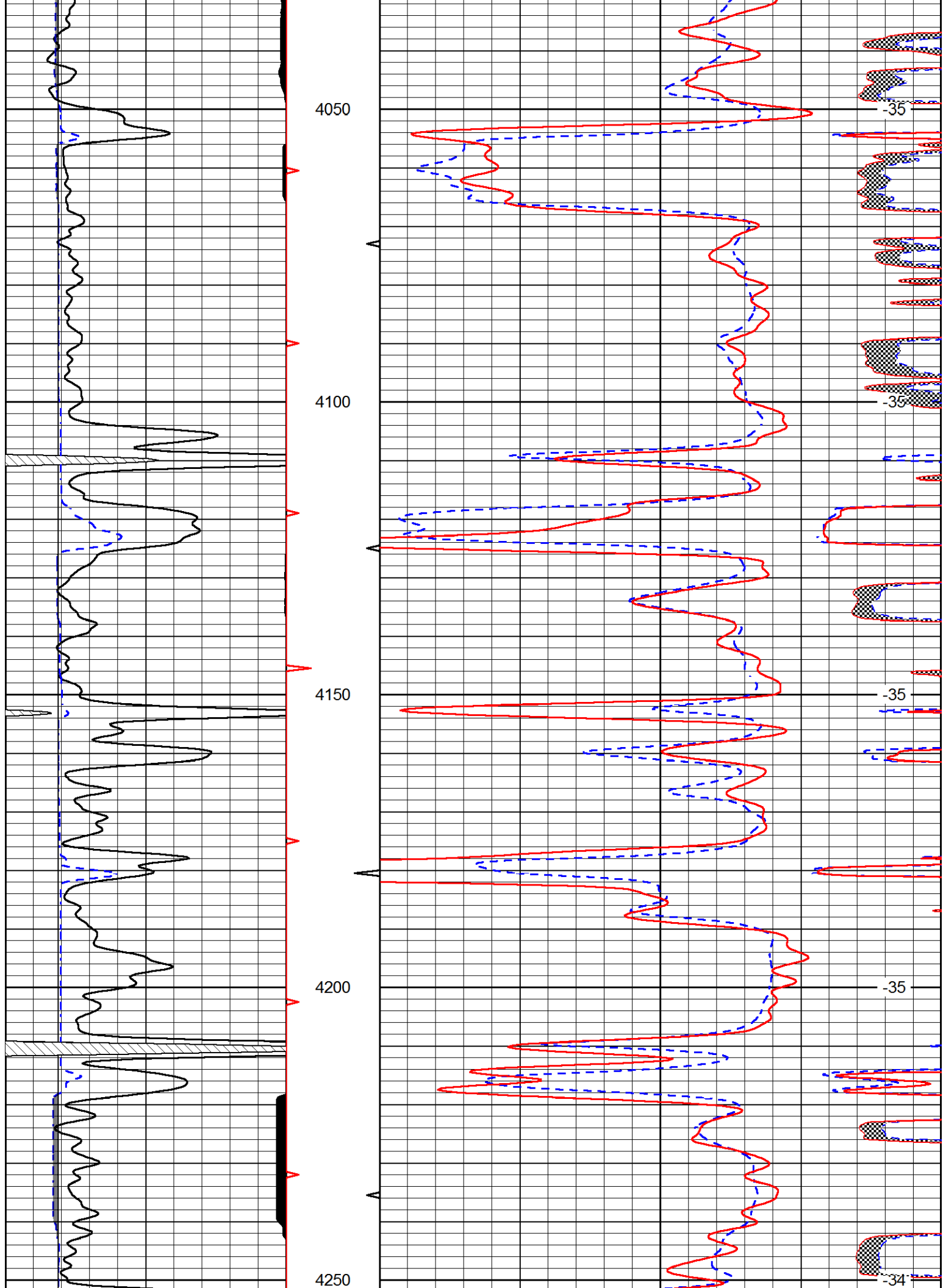
30 CNPOR (pu) -10
30 Compensated Density (2.71ma) (pu) -10

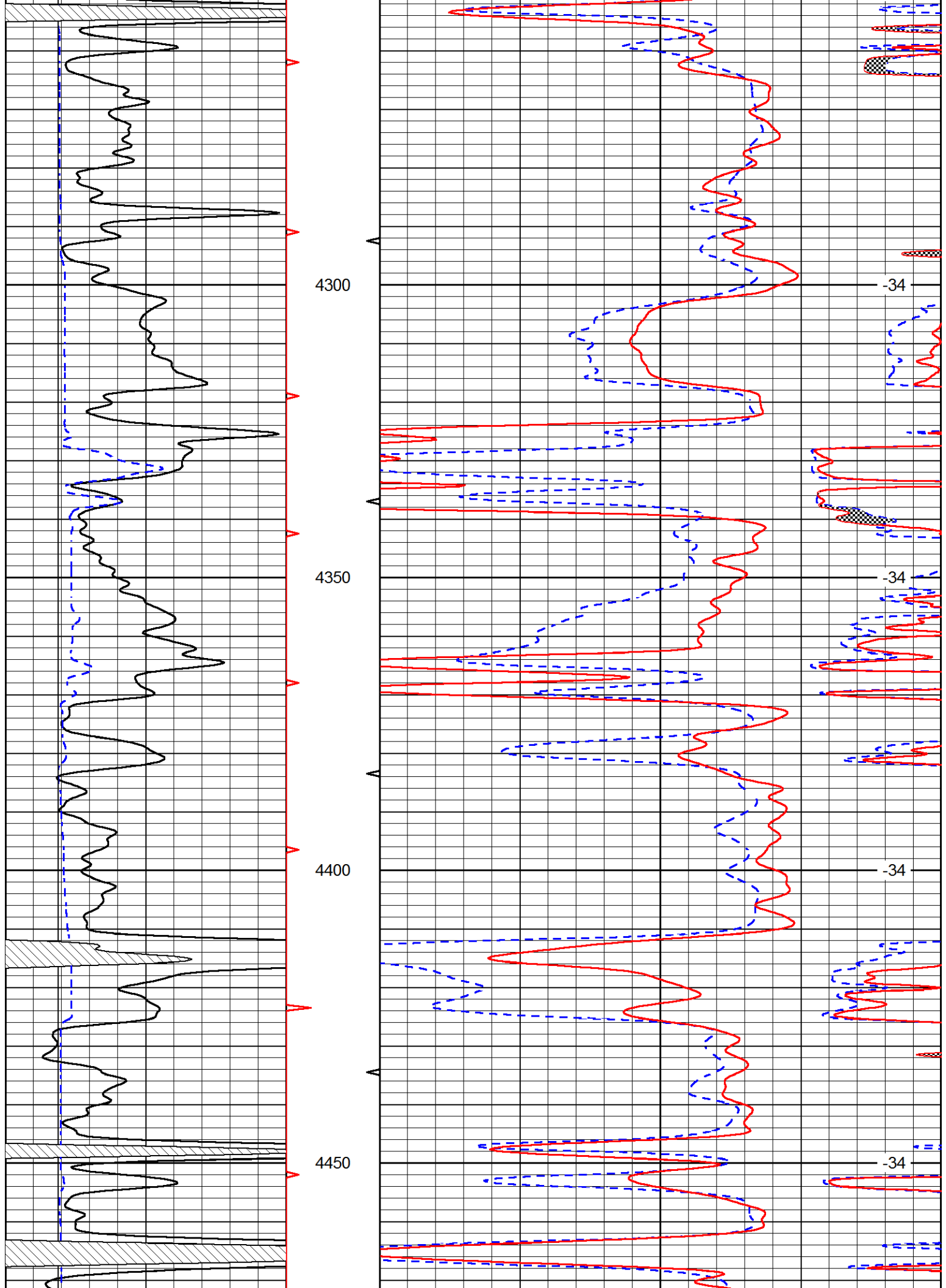
Micro Normal
0 (Ohm-m) 20
Micro Inverse
0 (Ohm-m) 20

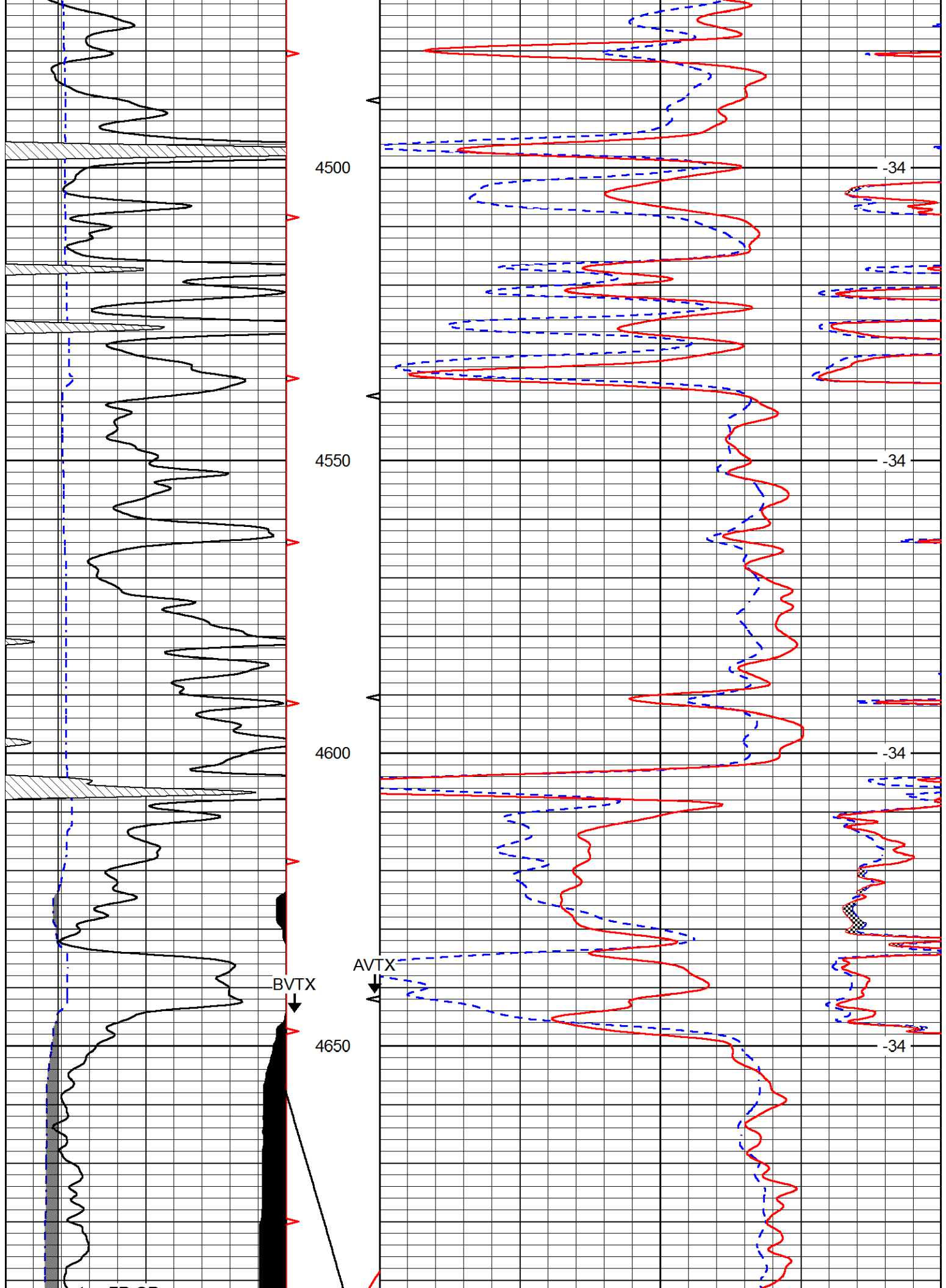
Line Speed
(ft/min)

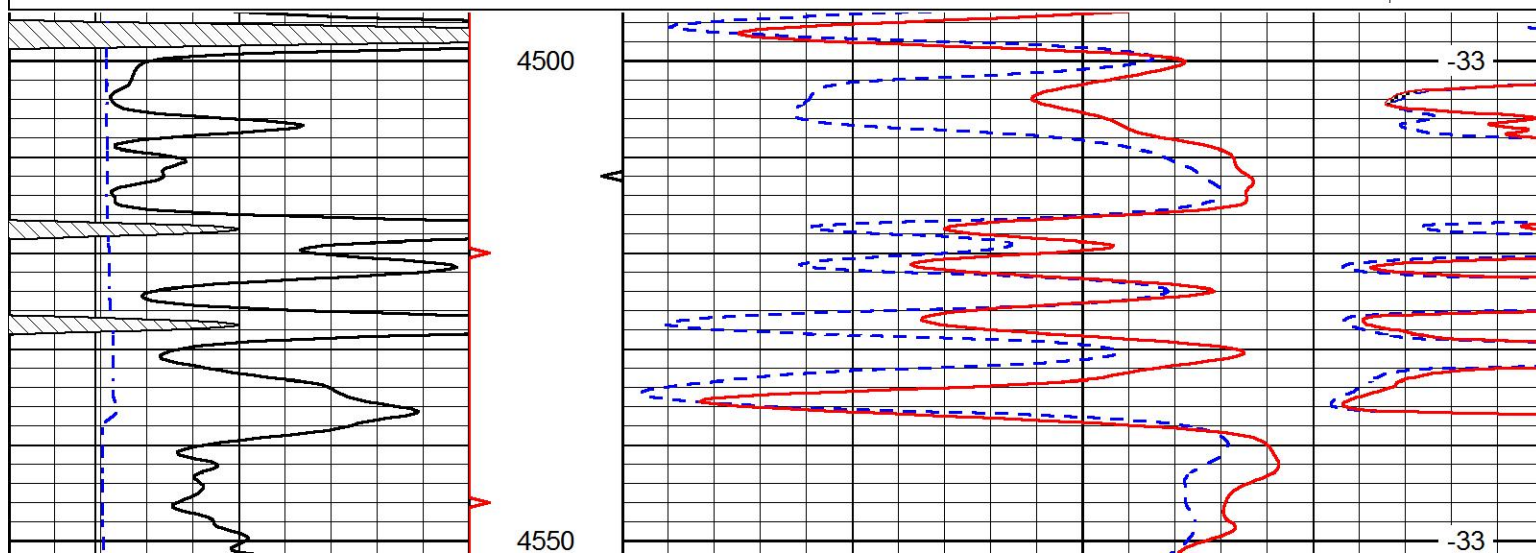
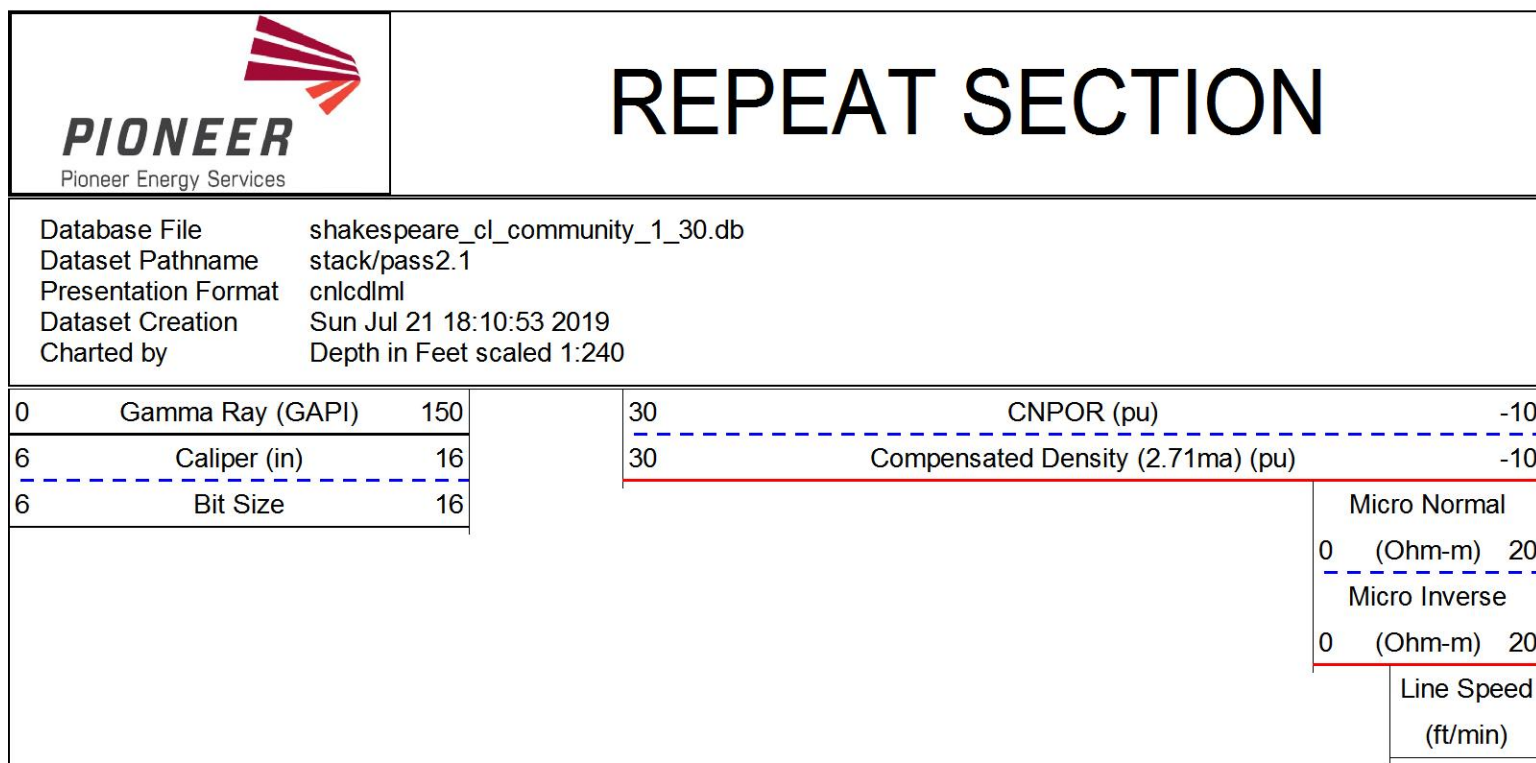
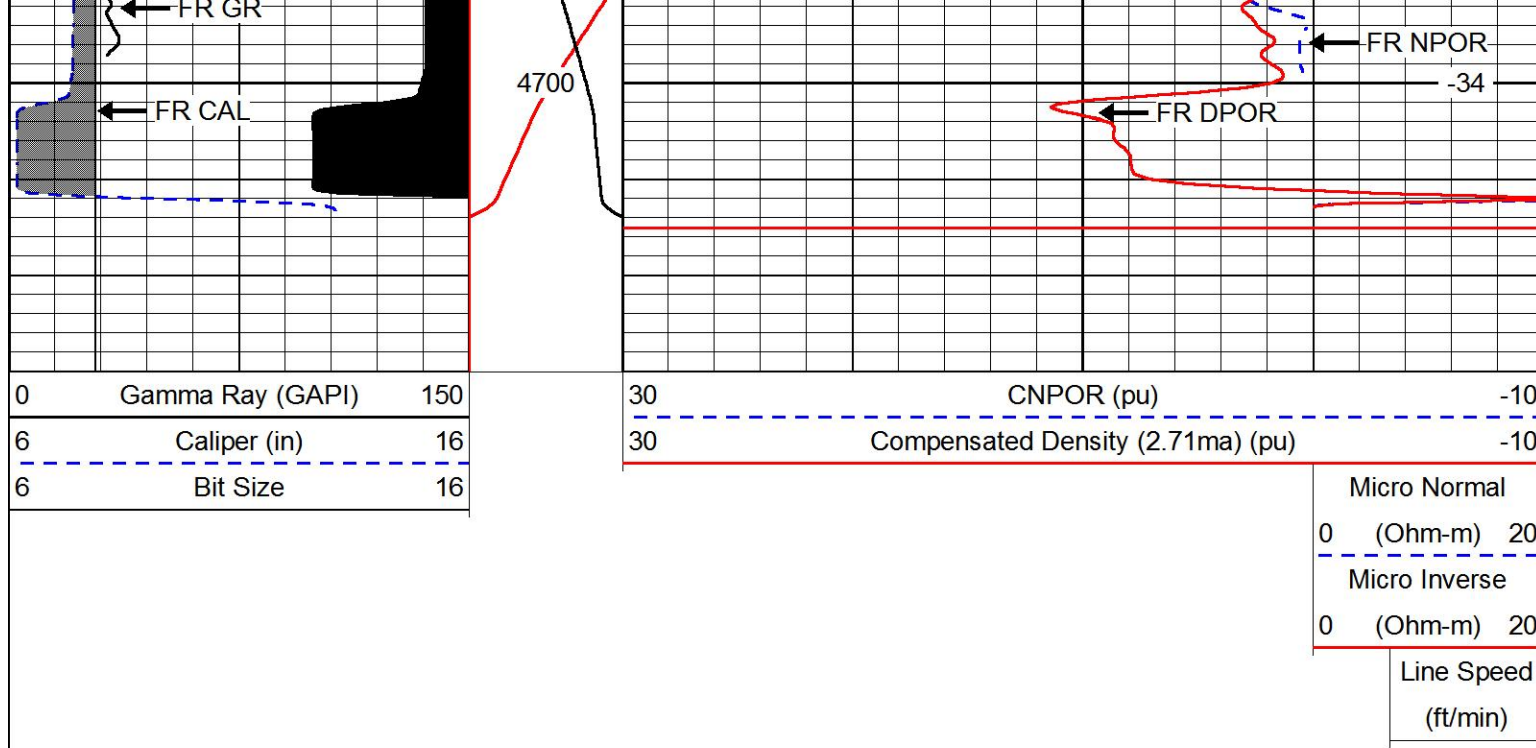


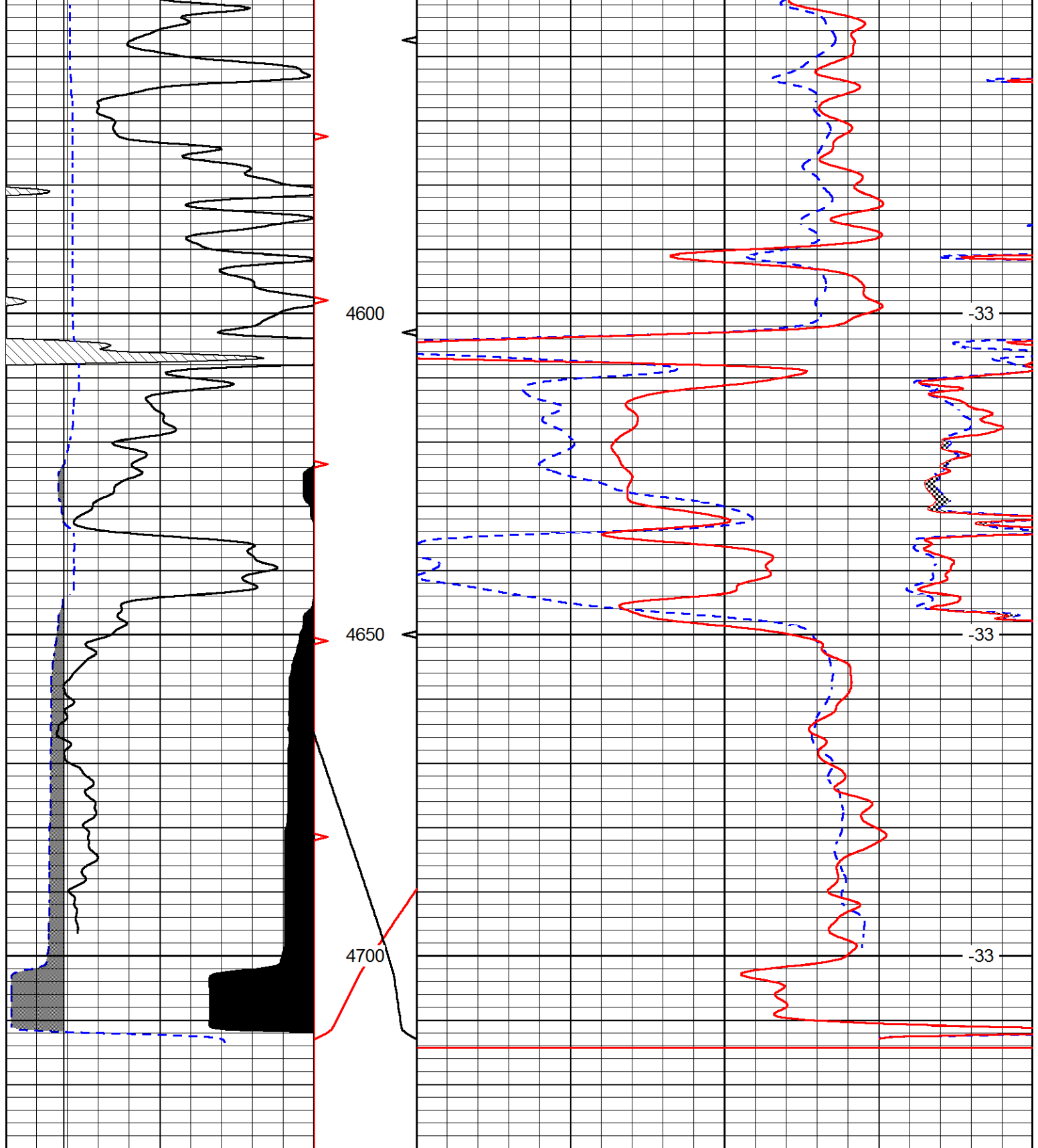












0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
6	Bit Size	16

30	CNPOR (pu)	-10
30	Compensated Density (2.71ma) (pu)	-10

Micro Normal		
0	(Ohm-m)	20
Micro Inverse		
0	(Ohm-m)	20
Line Speed		
(ft/min)		

Database File		shakespeare_cl_community_1_30.db					
Dataset Pathname		stack/pass3.1					
Dataset Creation		Sun Jul 21 18:48:39 2019					
Dual Induction Calibration Report							
Serial-Model:		PSI 988-M&W					
Calibration Performed:		Tue Nov 20 10:50:19 2018					
		Readings		References		Results	
Loop:	Air	Loop		Air	Loop	Gain	Offset
Deep	178.615	710.235		0.000	255.800	mmho/m	0.525
Medium	161.982	1441.110		0.000	255.800	mmho/m	-44.000
							-17.000
Compensated Density Calibration Report							
Serial-Model:		144-84-M&W					
Source / Verifier:		/					
Master Calibration Performed:		Mon Jan 07 15:00:31 2019					
Master Calibration							
		Density		Far Detector		Near Detector	
Magnesium		1.755	g/cc	4315.49		5309.89	cps
Aluminum		2.675	g/cc	825.26		3443.46	cps
		Spine Angle = 75.33		Density/Spine Ratio = 0.538			
		Size		Reading			
Small Ring		4.00	in	0.69			
Large Ring		14.00	in	0.04			
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:		Tue Apr 11 17:08:01 2017					
Calibrator Value:		1000.0		GAPI			
Background Reading:		0.0		cps			
Calibrator Reading:		6.2		cps			
Sensitivity:		0.5200		GAPI/cps			



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