



MIDWEST WIRELINE

MICRORESISTIVITY
LOG

Company War Cry LLC		Company War Cry LLC	
Well	Casey #6	Well	Casey #6
Field	Beaver North	Field	Beaver North
County	Barton	County	Barton
State	Kansas	State	Kansas
Location: API #: 15-009-26353-00-00		Other Services	
2040 FNL & 1855 FEL		CNL/CDL DIL	
Permanent Datum	Ground Level	Elevation	1876
Log Measured From	Kelly Bushing	K.B.	1884
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	1876
SEC 4	TWP 16S	RGE 12W	
Date 4/9/2022			
Run Number	One		
Depth Driller	3424		
Depth Logger	3426		
Bottom Logged Interval	3425		
Top Log Interval	2400		
Casing Driller	8.625 @ 605		
Casing Logger	605		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	5000		
Density / Viscosity	9.1 50		
pH / Fluid Loss	9.5 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.9 @ 60		
Rmt @ Meas. Temp	0.68 @ 60		
Rmc @ Meas. Temp	1.22 @ 60		
Source of Rmt / Rmc	Charts		
Rm @ BHT	0.49 @ 110		
Operating Rig Time	2.5 Hours		
Max Rec. Temp. F	110		
Equipment Number			
Location	Hays		
Recorded By	T. Martin		
Witnessed By	Jason Alm	Ward Craig	

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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.

Beaver, KS, 3 N, 1/2 E, N into

Log Measured From: Kelly Bushing8 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:	Jason Alm
Operator:		Secondary Witness:	Ward Craig
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Log Variables

DatabaseC:\ProgramData\Warrior\DataNeeds backed up\war cry_casey #6.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	110	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	-215	60		3426

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

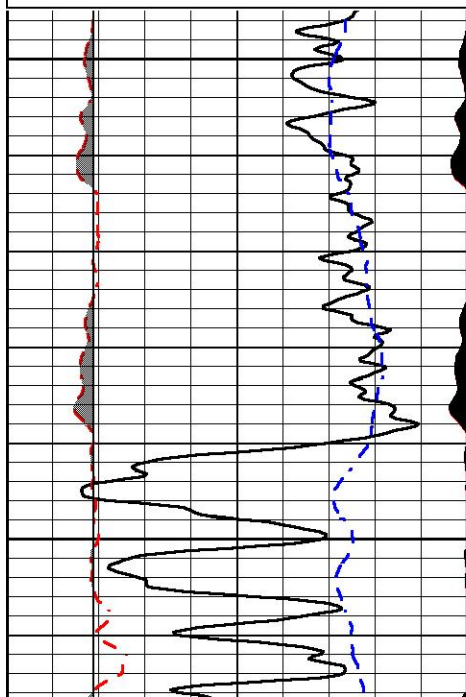
DETAIL SECTION

MAIN PASS

Database File needs backed up\war cry_casey #6.db
Dataset Pathname StkMI/pass3.1
Presentation Format _micro
Dataset Creation Sat Apr 09 13:53:14 2022
Charted by Depth in Feet scaled 1:240

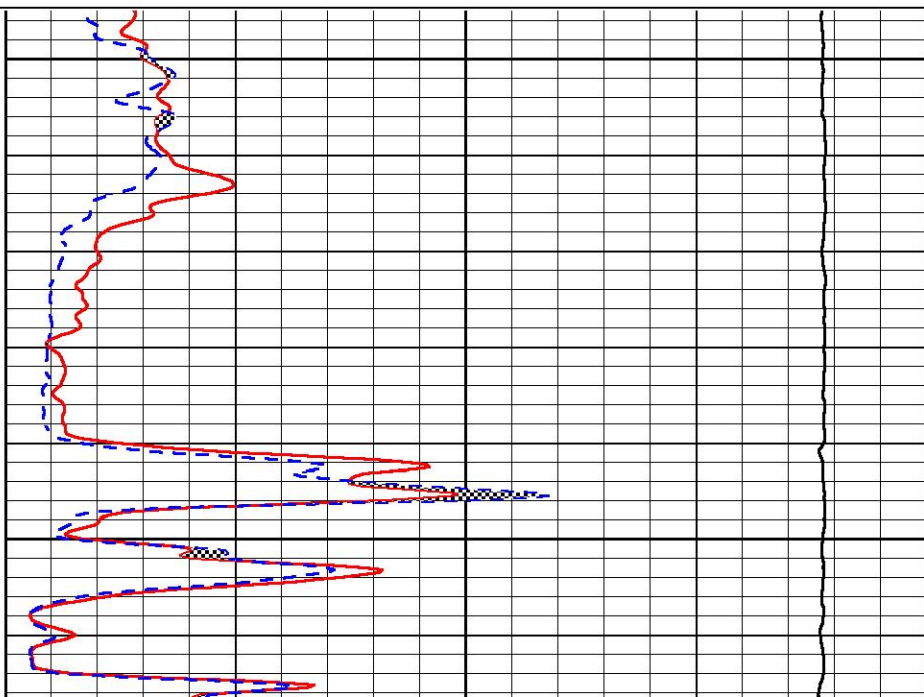
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-2.875	mccl (in)	7.875
-200	SP (mV)	0

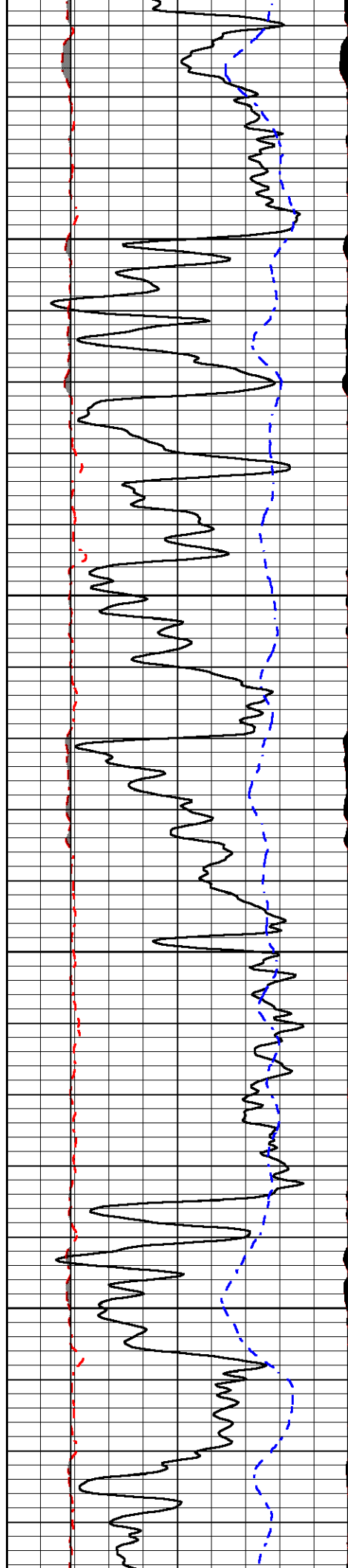
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



2400

2450



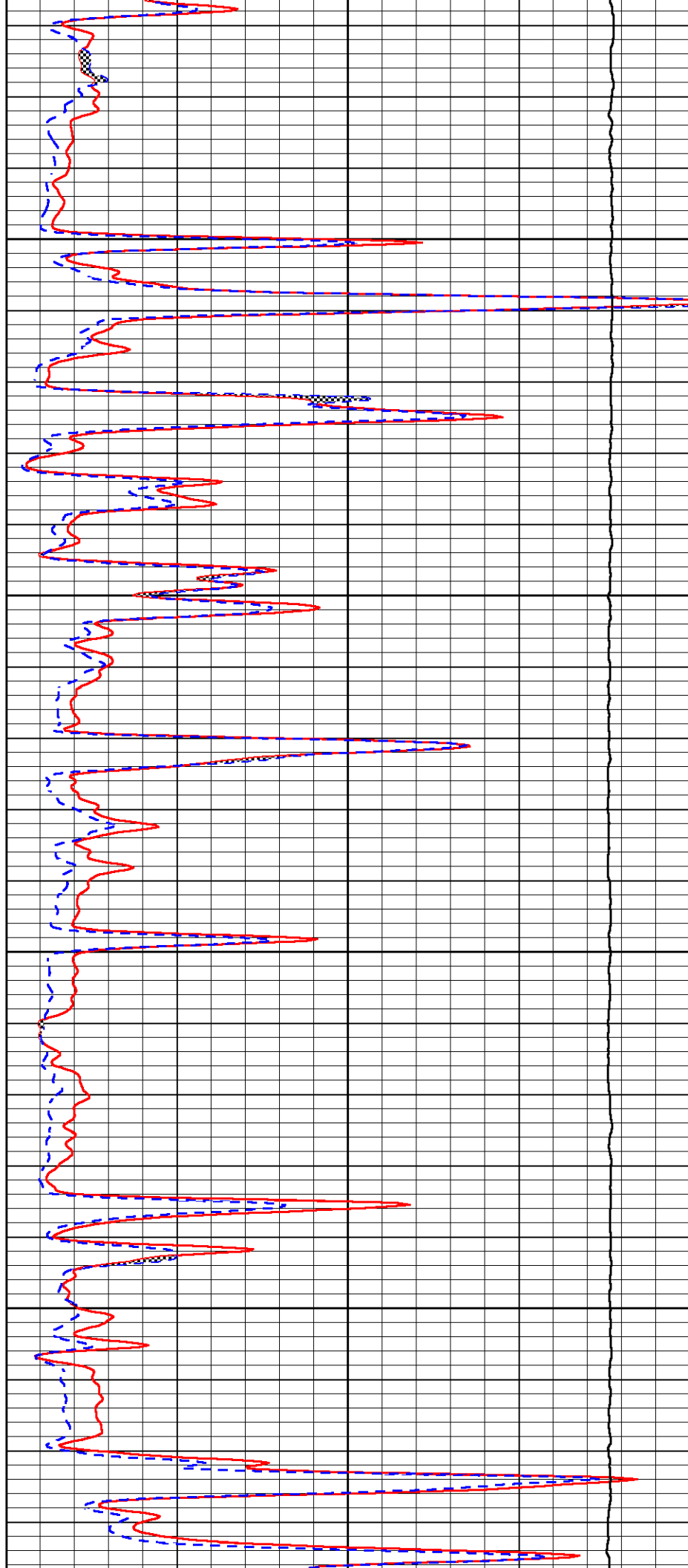


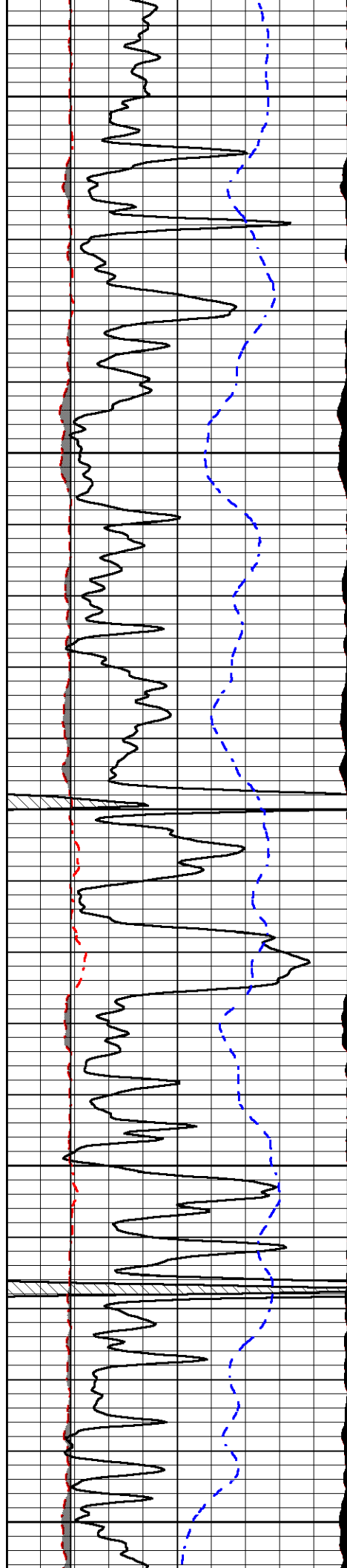
2500

2550

2600

2650





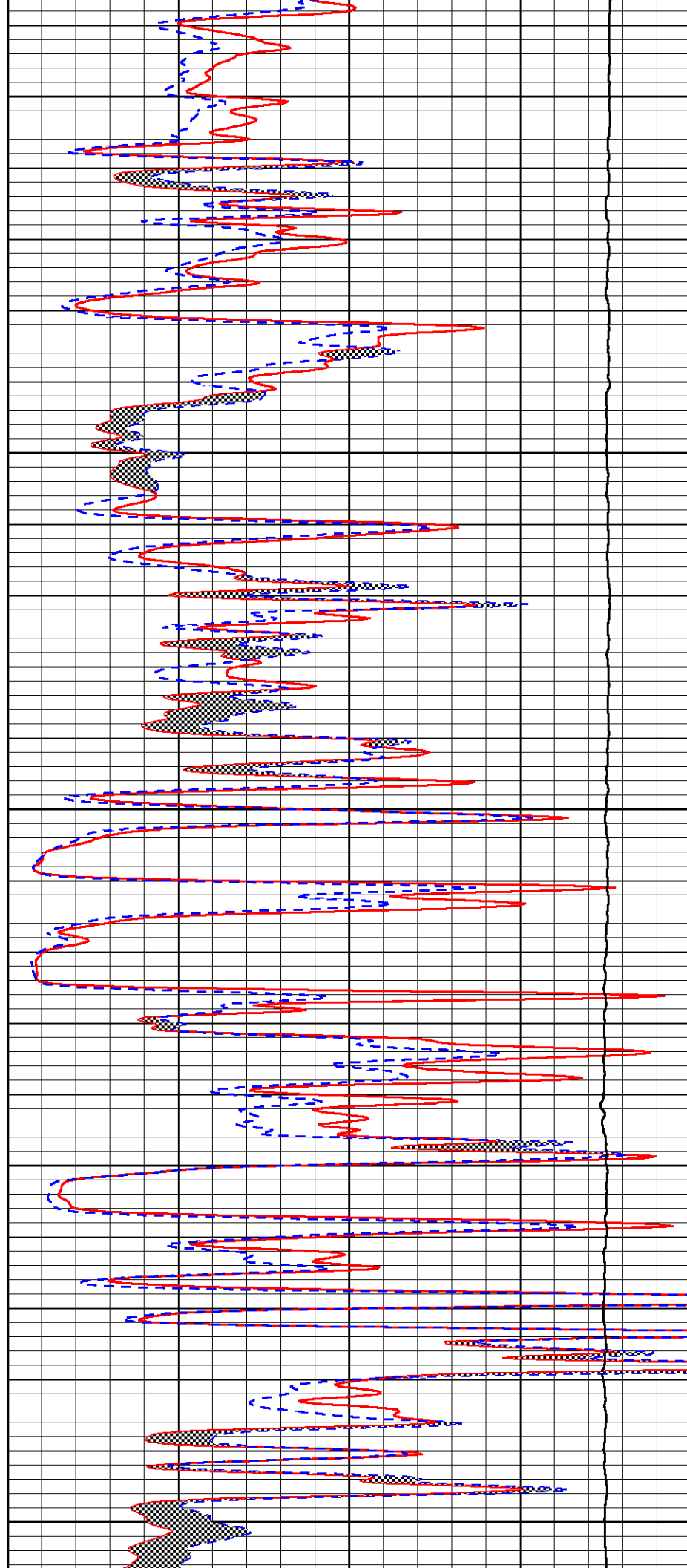
2700

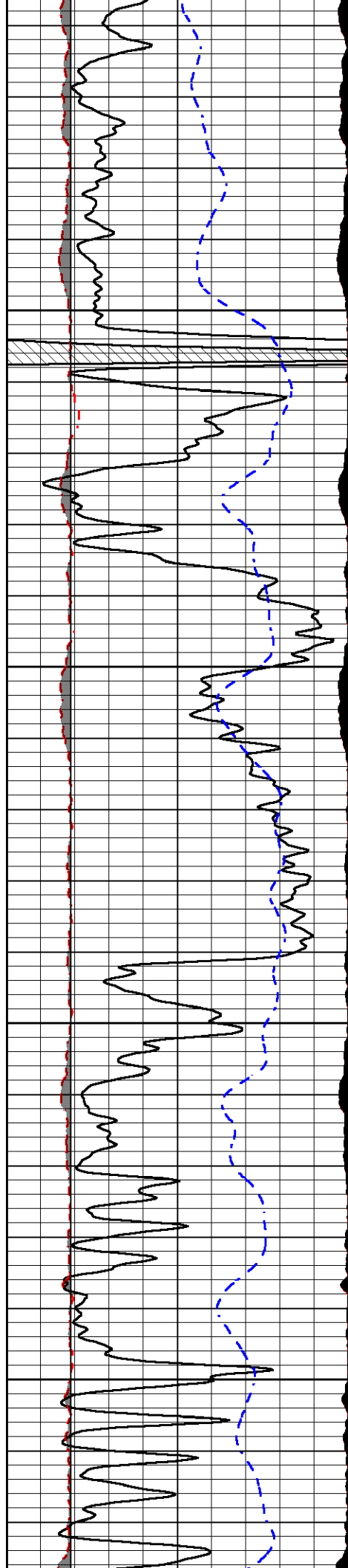
2750

2800

2850

2900



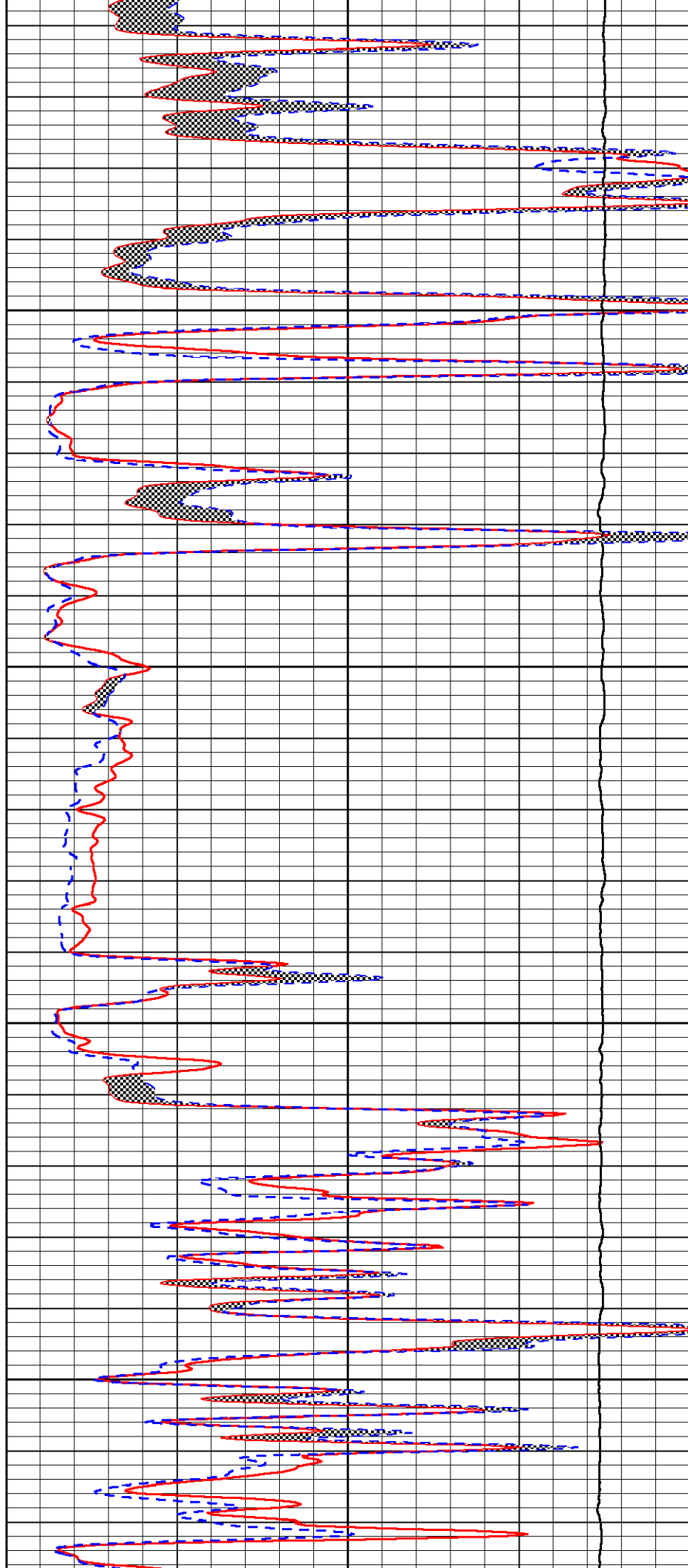


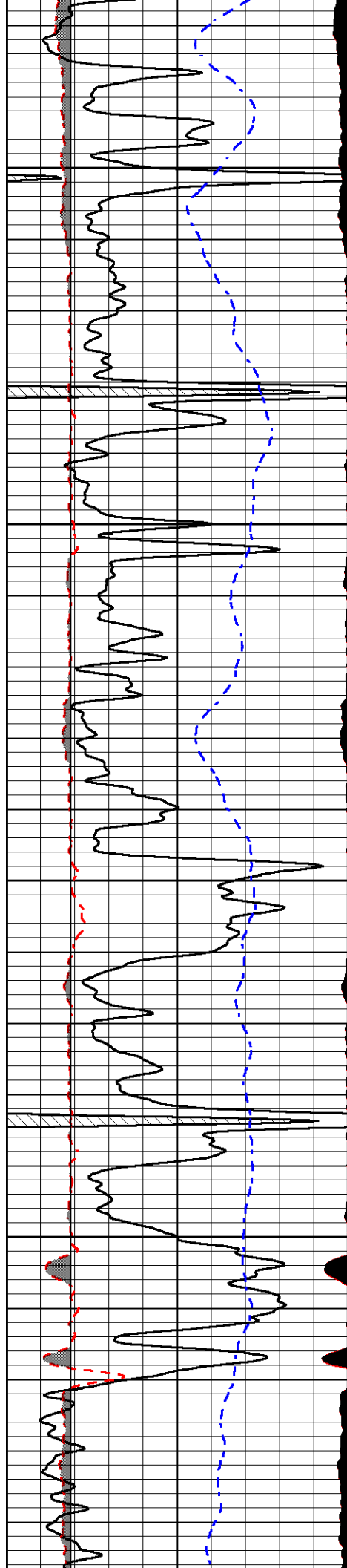
2950

3000

3050

3100



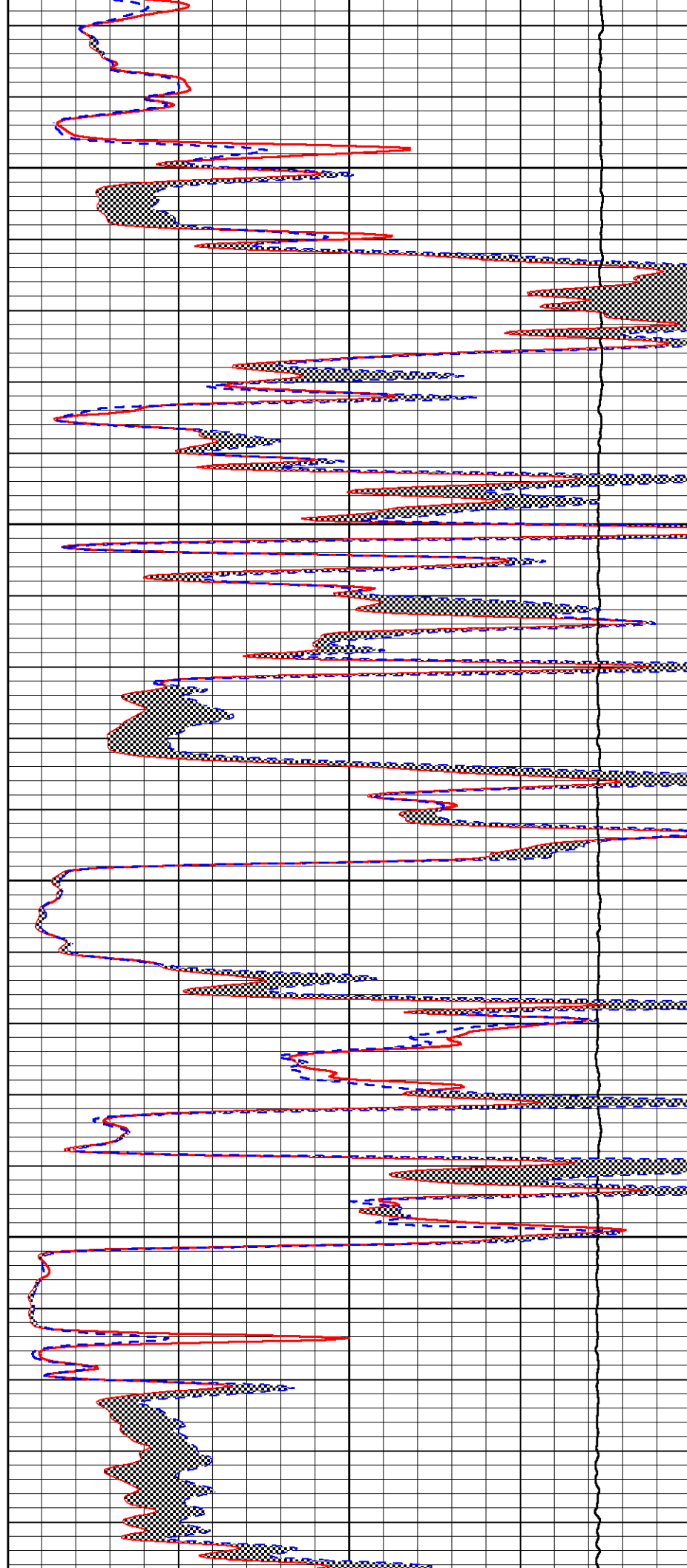


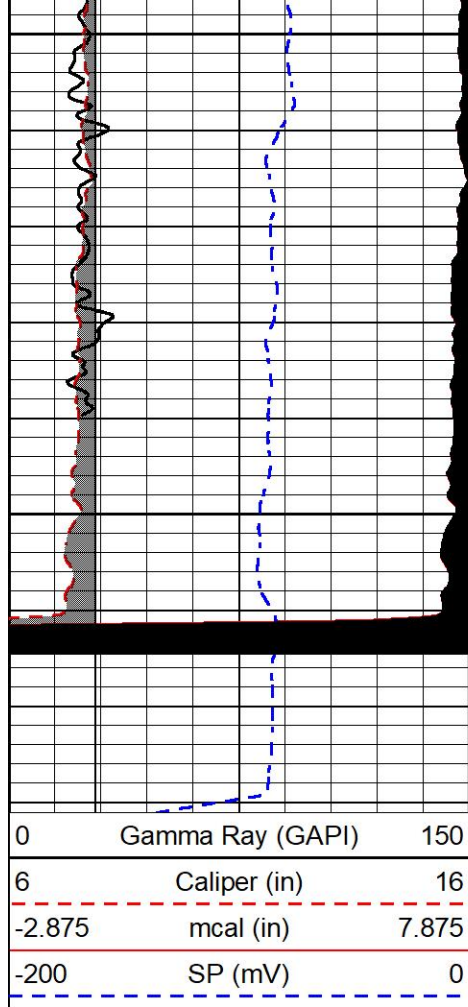
3150

3200

3250

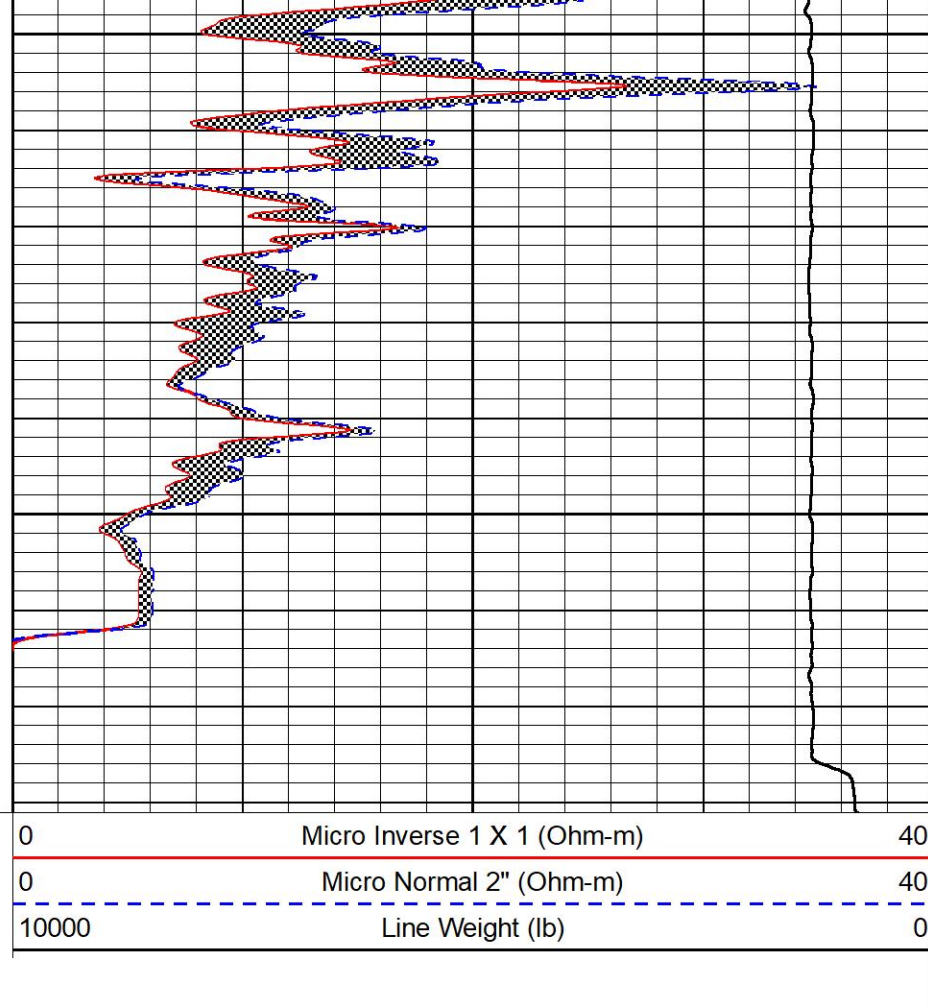
3300





3350

3400

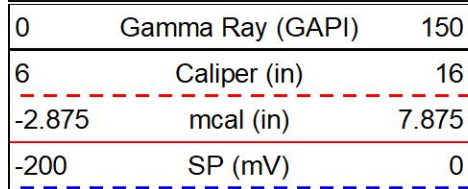


MIDWEST WIRELINE

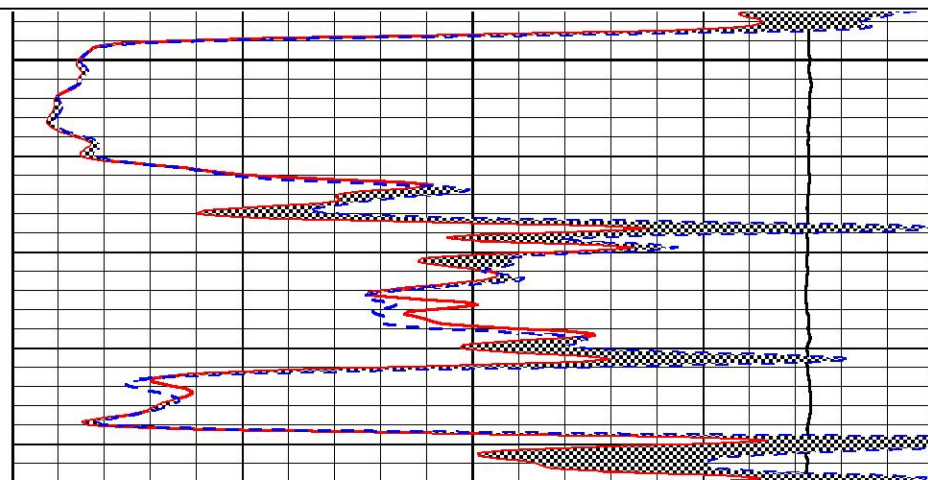
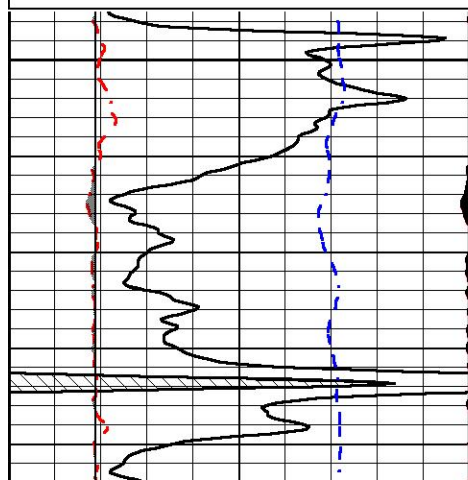
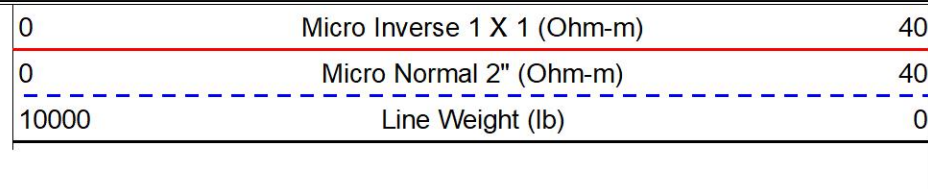
REPEAT SECTION

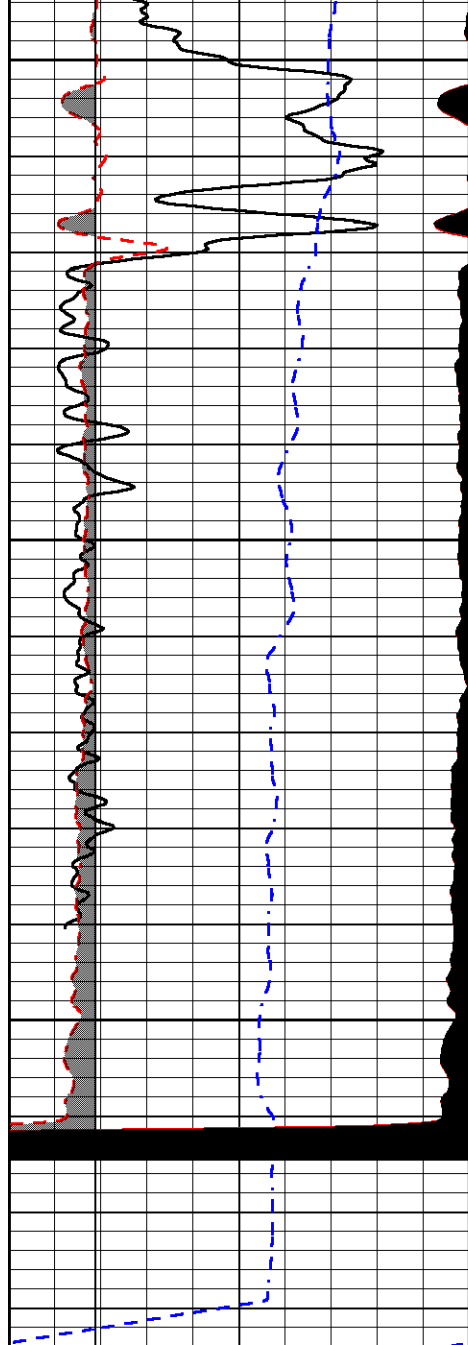
REPEAT PASS

Database File needs backed up\war cry_casey #6.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _micro
 Dataset Creation Sat Apr 09 13:24:40 2022
 Charted by Depth in Feet scaled 1:240



3250



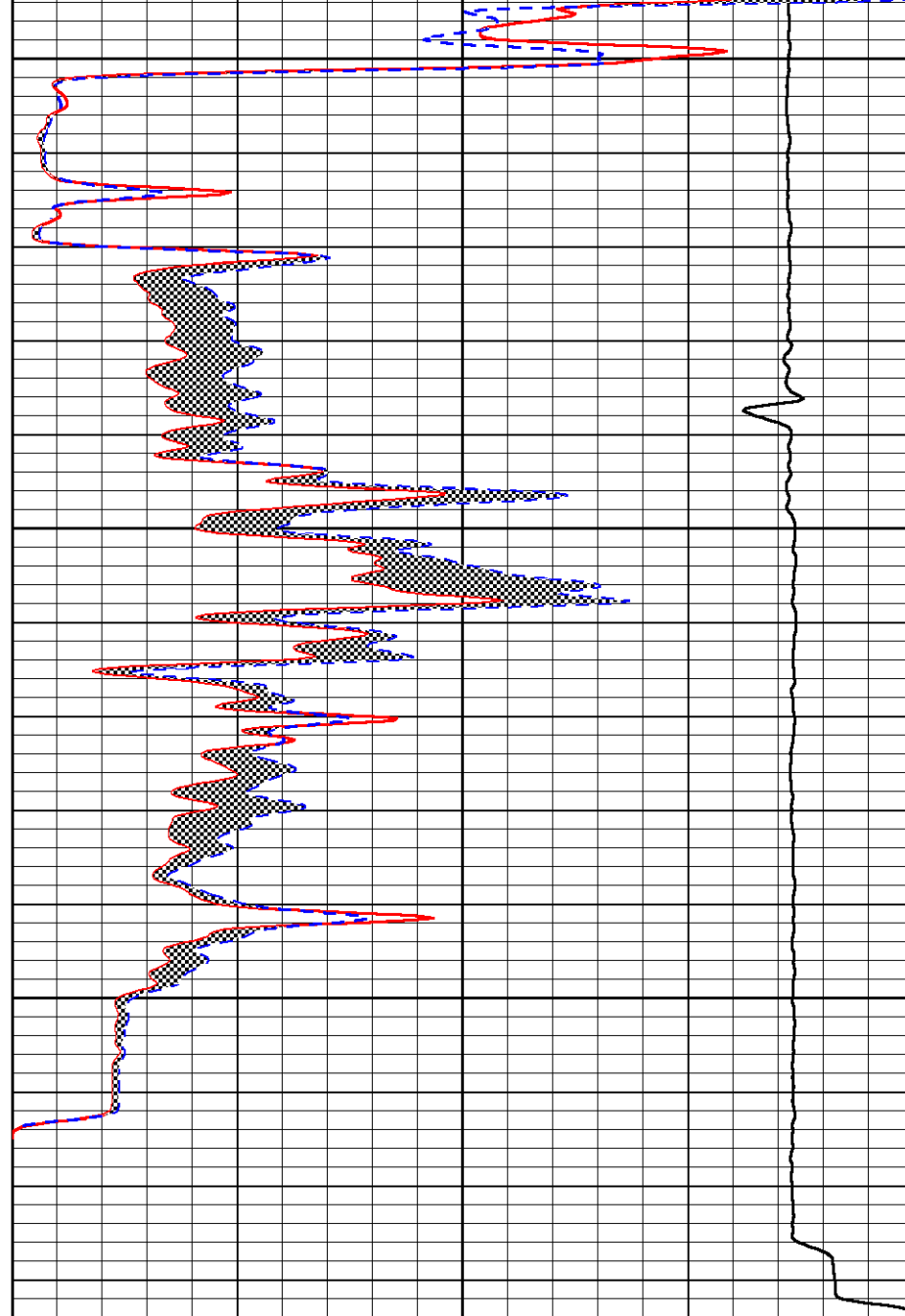


0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-2.875	mcil (in)	7.875
-200	SP (mV)	0

3300

3350

3400



0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

Calibration Report

Database File C:\ProgramData\Warrior\Data\Needs backed up\war cry_casey #6.db
 Dataset Pathname StkMI/pass3.3
 Dataset Creation Sat Apr 09 13:33:19 2022

Dual Induction Calibration Report

Serial-Model: 502 HT-M&W
 Surface Cal Performed: Wed Feb 9 17:39:00 2022

Readings

References

Results

Loop:	Air	Loop	Air	Loop	mmho/m	m	b
Deep	83.639	487.104	0.000	183.000	0.454	-32.000	

Medium	113.335	1585.690	0.000	442.000	mmho/m	0.350	-10.000
Microlog Calibration Report							
Serial-Model: Performed:			402-PSIML Mon Jan 24 20:31:16 2022				
Readings			References			Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	24000.0000	-0.4000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	22500.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	125.0000	-122.2000
Compensated Density Calibration Report							
Serial-Model: Source #: Master Calibration Performed:			305-05-M&W 20762B Mon Mar 28 23:57:02 2022				
Master Calibration							
	Density			Far Detector		Near Detector	
Magnesium	1.755	g/cc		8862.47		9339.96	cps
Aluminum	2.610	g/cc		1556.73		5707.29	cps
Spine Angle = 74.19			Density/Spine Ratio = 0.473				
	Size			Reading			
Small Ring	4.00	in		1.75			
Large Ring	14.00	in		1.38			
Compensated Neutron Calibration Report							
Serial Number: Tool Model:			207-MW M&W				
CALIBRATION							
Detector		Readings		Target		Normalization	
Short Space		6240.00	cps	1000.00	cps	1.6025	
Long Space		460.00	cps	1000.00	cps	1.9500	
PRE-SURVEY VERIFICATION							
Detector		Readings		Measured		Target	
1)	Short Space		cps				
	Long Space		cps	pu		pu	
2)	Short Space		cps				
	Long Space		cps	pu			
3)	Short Space		cps				
	Long Space		cps	pu			
POST-SURVEY VERIFICATION							
Detector		Readings		Measured		Target	
1)	Short Space		cps				

1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps cps	pu	pu

Gamma Ray Calibration Report				
Serial Number:		101		
Tool Model:		M&W		
Performed:		Mon Jan 24 19:14:46 2022		
Calibrator Value:		500.0	GAPI	
Background Reading:		24.0	cps	
Calibrator Reading:		637.0	cps	
Sensitivity:		0.5500	GAPI/cps	

 MIDWEST WIRELINE	Company	War Cry LLC
	Well	Casey #6
	Field	Beaver North
	County	Barton
	State	Kansas