



PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company PICKRELL DRILLING COMPANY, INC.
Well ALBIN "I" NO. 3
Field CASTLE ROCK
County GOVE
State KANSAS

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Location: API #: 15-063-22296-00-00

1,505' FSL & 1,675' FWL

SEC 28 TWP 14S RGE 27W

Permanent Datum GROUND LEVEL Elevation 2470'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2477'
D.F. N/A
G.L. 2470'

Date 11/11/2016

Run Number	ONE		
Depth Driller	4305'		
Depth Logger	4303'		
Bottom Logged Interval	4302'		
Top Log Interval	3400'		
Casing Driller	8.625" @ 207'		
Casing Logger	207'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	3000		
Density / Viscosity	9.5 51		
pH / Fluid Loss	9.0 10.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.98 @ 68		
Rmt @ Meas. Temp	.74 @ 68		
Rmc @ Meas. Temp	1.32 @ 68		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.56 @ 119		
Operating Rig Time	2 1/2 HOURS		
Max Rec. Temp. F	119 DEG F.		
Equipment Number	108		
Location	COLBY		
Recorded By	J. LONG		
Witnessed By	AARON YOUNG		

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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.

PARK (I-70 PARK EXIT), 2 1/2 SOUTH, 2 EAST, 18 1/4 SOUTH, EAST INTO

Log Measured From: KELLY BUSHING 7 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: J. LONG
Operator: M. HISS
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: AARON YOUNG
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 119	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 -245	degF 58	Off	ft 4303

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	37.48			CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	36.73						
LSD DCAL SSD	28.43 28.42 27.93			CDL-M&W (168-986)	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
RLL3 RLL3F	15.80 15.79						
CILD	8.00			DIL-M&W (1987)	18.50	3.50	220.00

CILM

4.70

SP

0.20

Dataset: pickrelldrilling_albin_i_3.db: field/well/stackmel/pass3
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

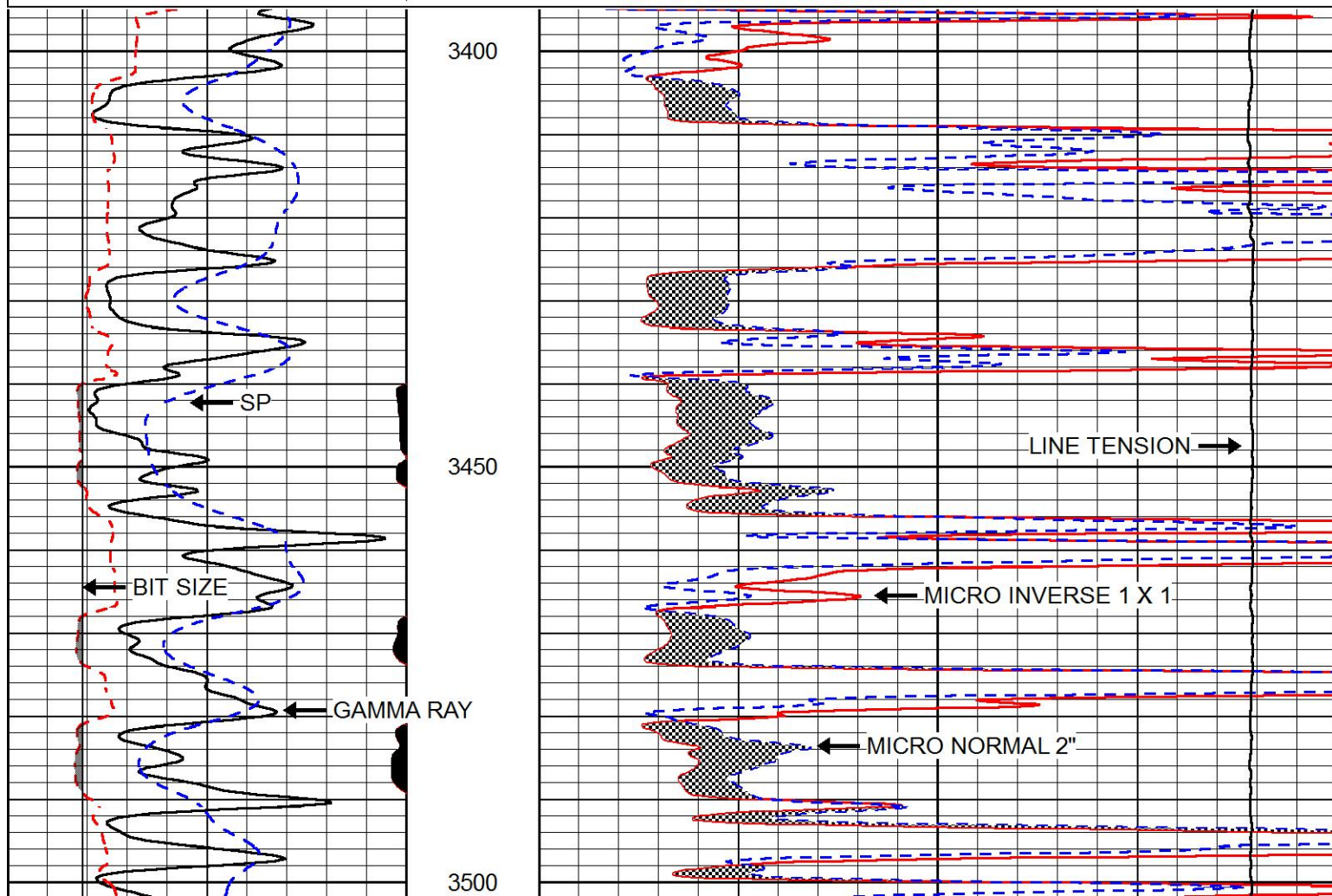


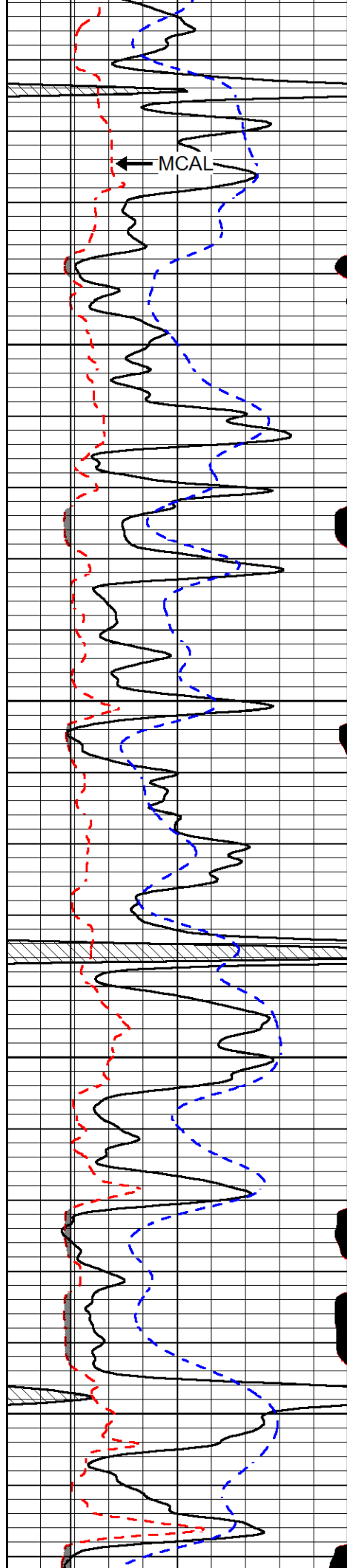
MAIN PASS

Database File pickrelldrilling_albin_i_3.db
Dataset Pathname stackmel/pass3.1
Presentation Format micro
Dataset Creation Fri Nov 11 15:46:09 2016
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0



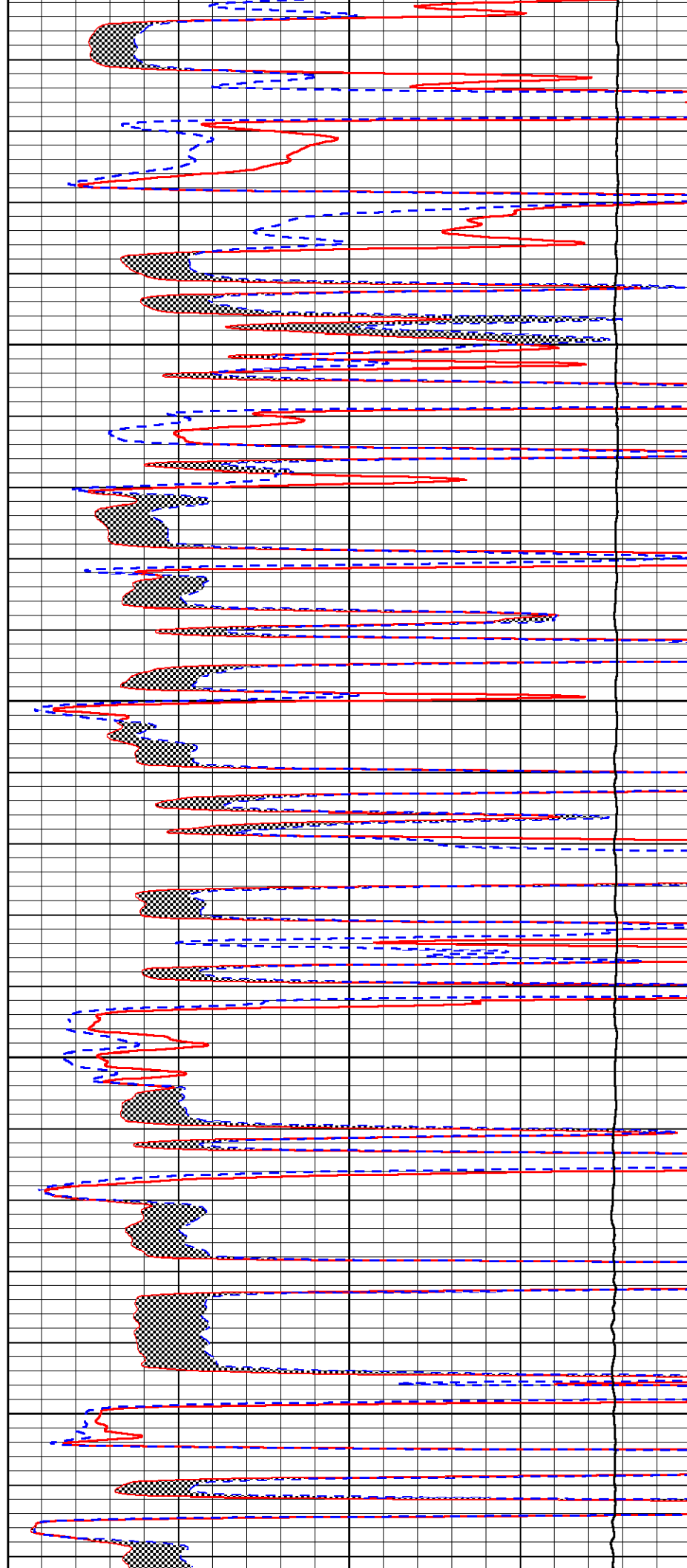


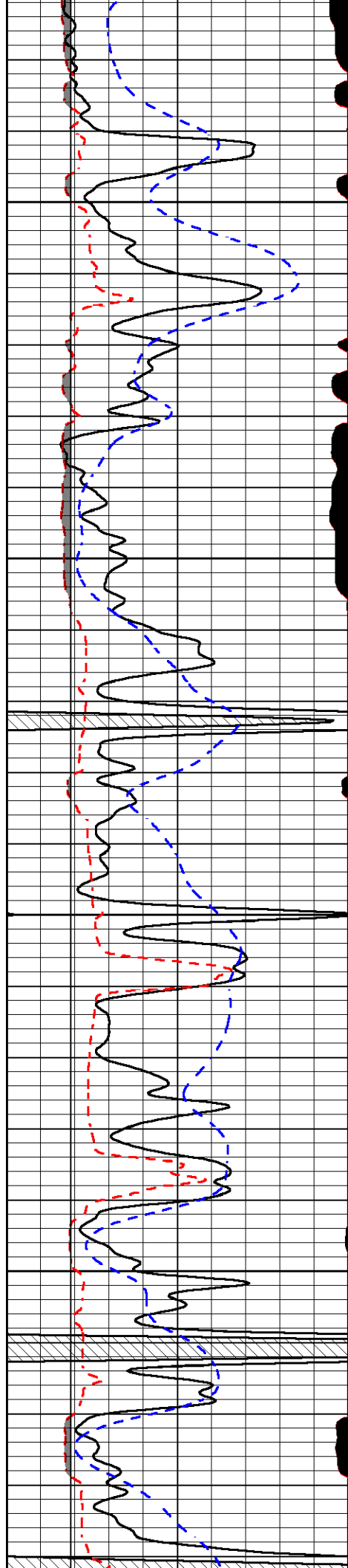
3550

3600

3650

3700



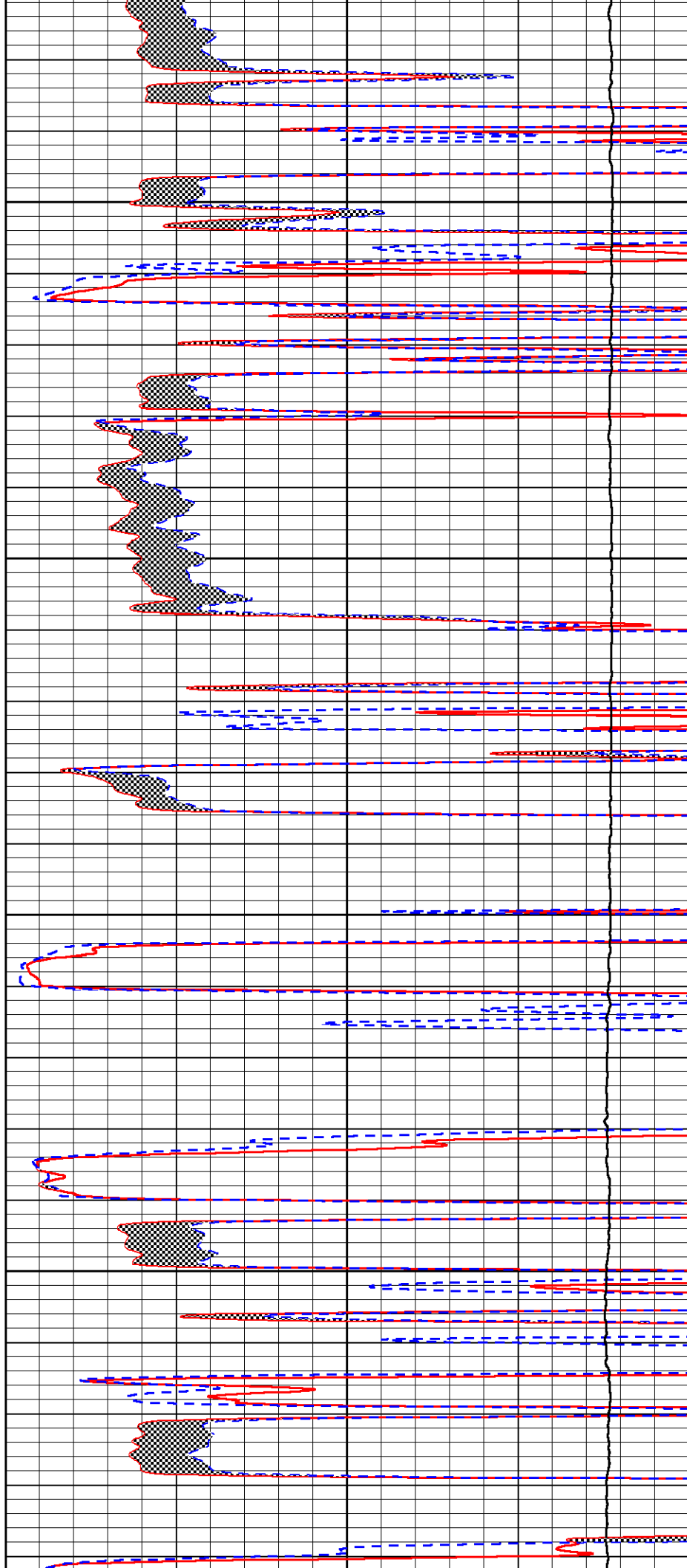


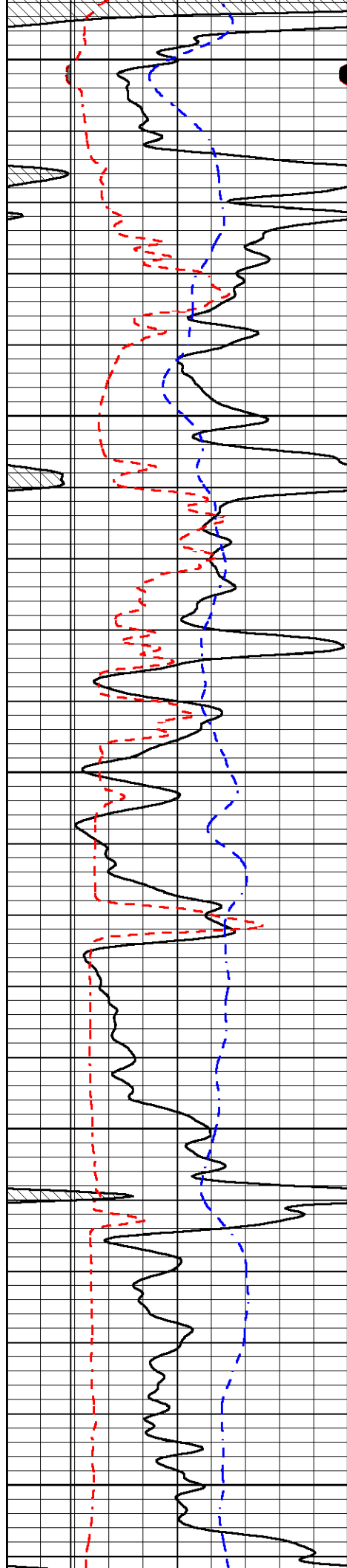
3750

3800

3850

3900





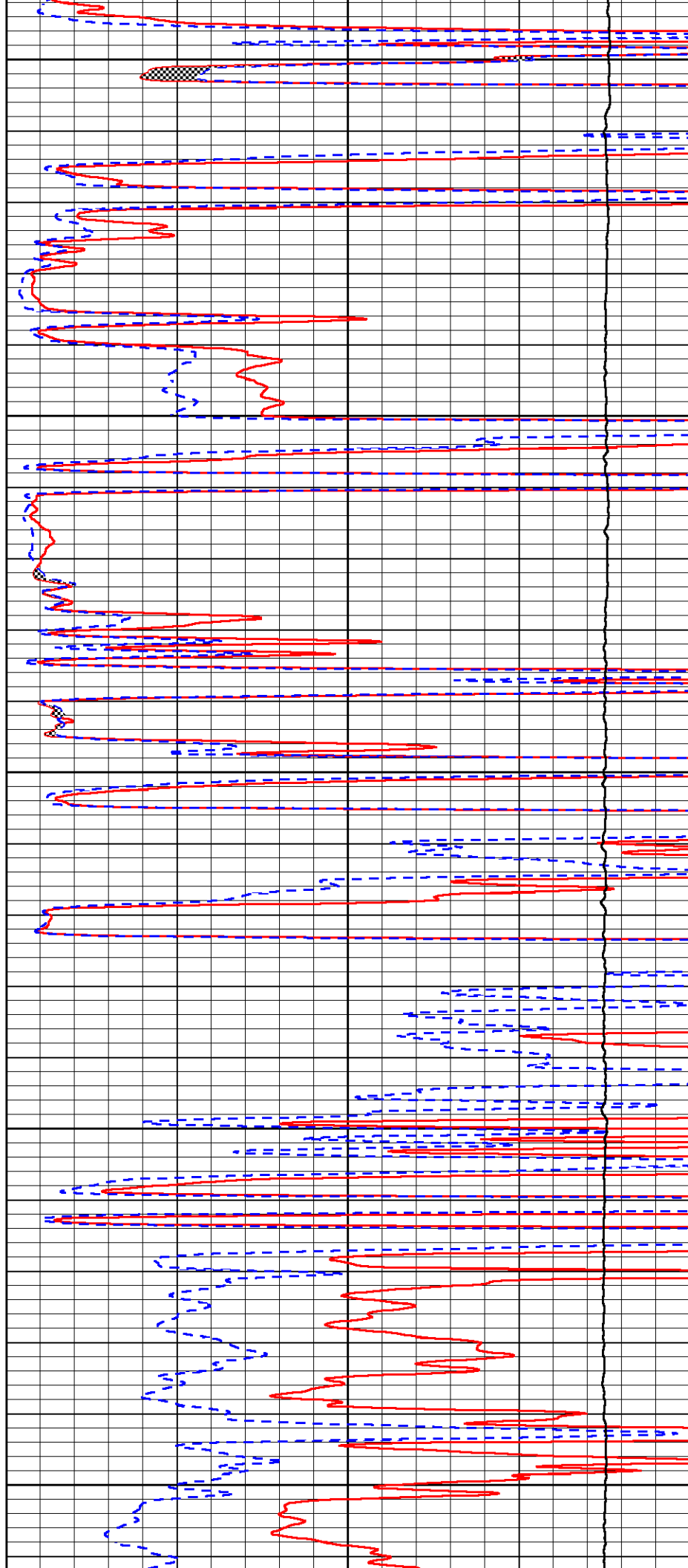
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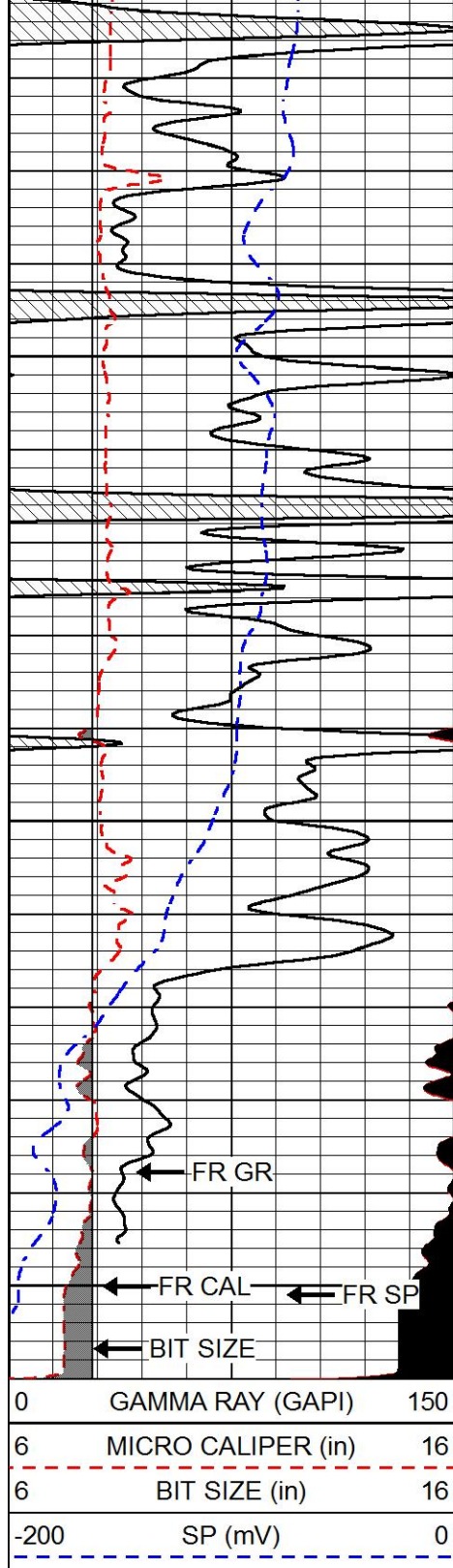
4000

4050

4100

4150





4200

4250

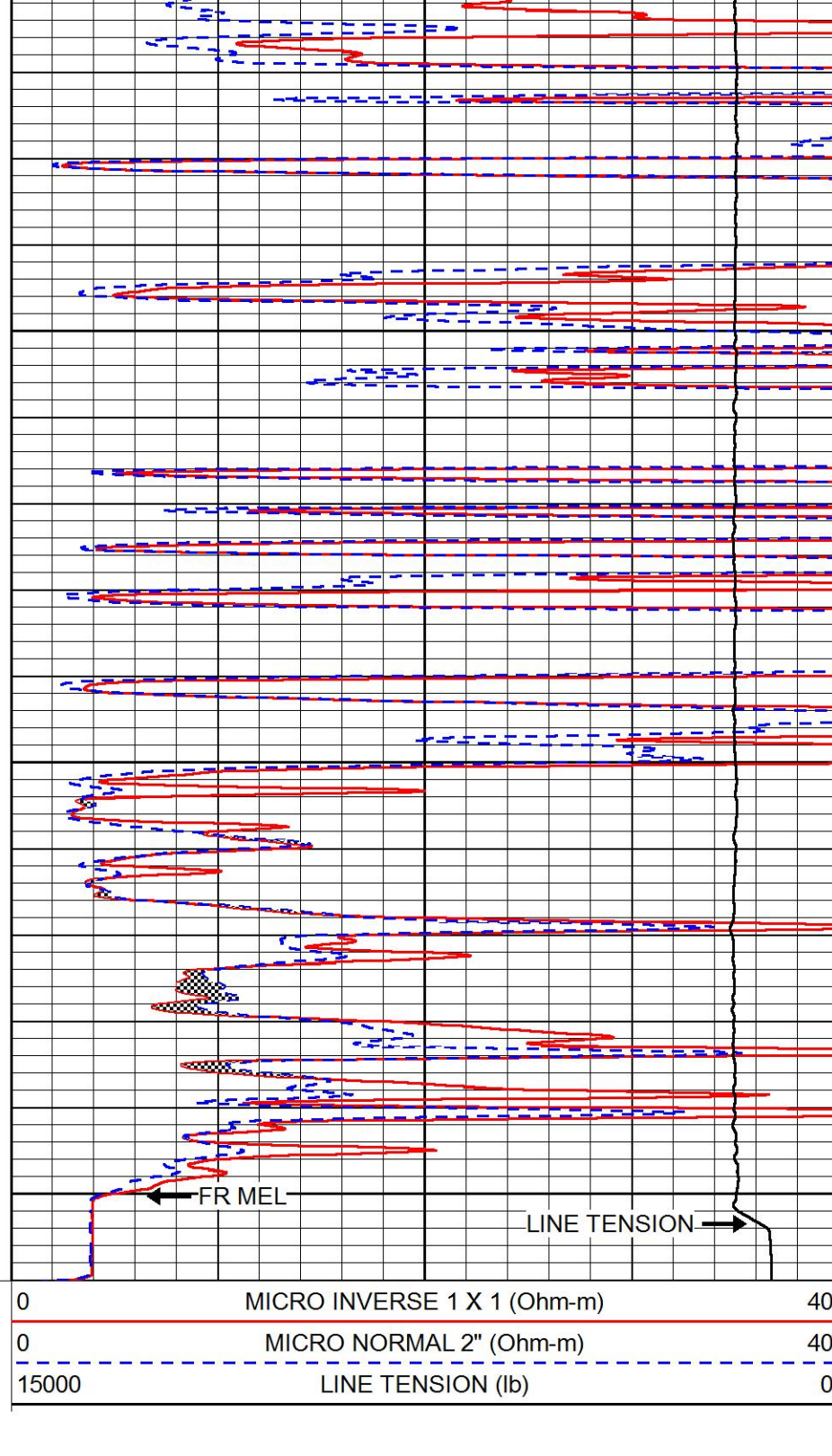
4300

FR GR

FR CAL

FR SP

BIT SIZE



FR MEL

LINE TENSION

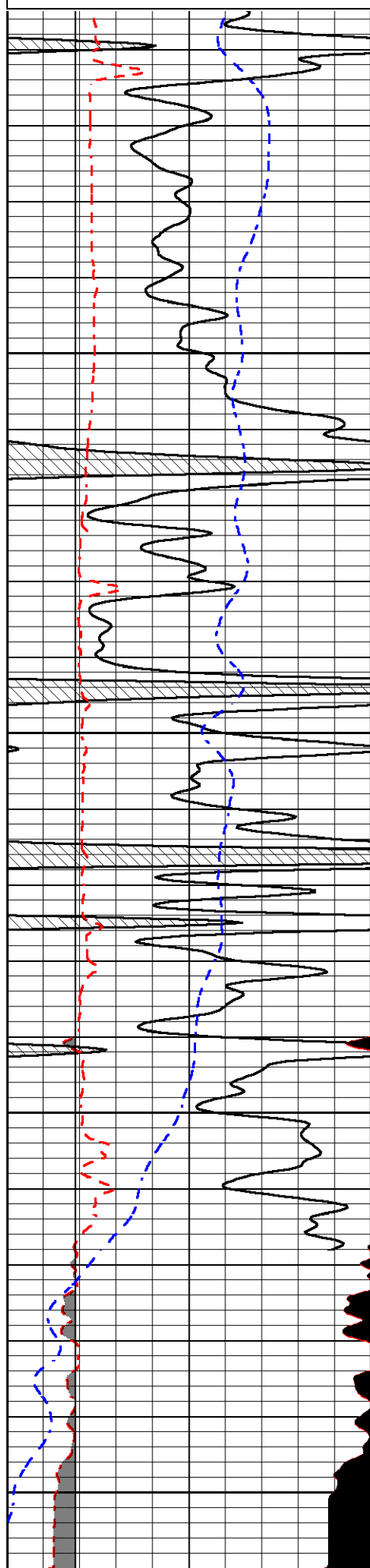


REPEAT SECTION

Database File pickrelldrilling_albin_i_3.db
 Dataset Pathname stackmel/pass2.1
 Presentation Format micro
 Dataset Creation Fri Nov 11 15:45:46 2016
 Charted by Depth in Feet scaled 1:240



6 MICRO CALIPER (in) 16
6 BIT SIZE (in) 16
-200 SP (mV) 0



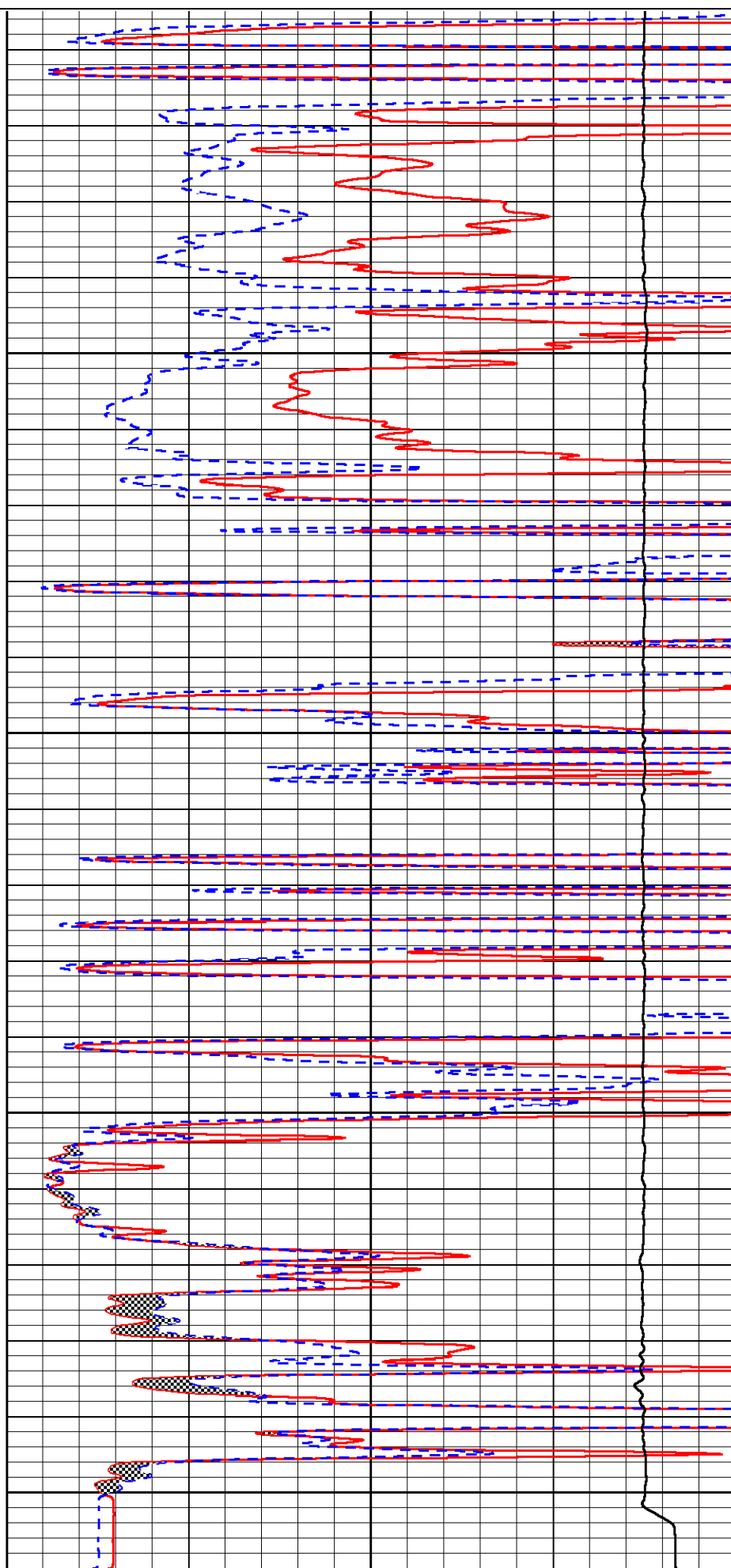
4150

4200

4250

4300

0 MICRO NORMAL 2" (Ohm-m) 40
15000 LINE TENSION (lb) 0



0	GAMMA RAY (GAPI)	150	0	MICRO INVERSE 1 X 1 (Ohm-m)	40
6	MICRO CALIPER (in)	16	0	MICRO NORMAL 2" (Ohm-m)	40
6	BIT SIZE (in)	16	15000	LINE TENSION (lb)	0
-200	SP (mV)	0			

Calibration Report									
Database File		pickrelldrilling_albin_i_3.db							
Dataset Pathname		stackmel/pass2							
Dataset Creation		Fri Nov 11 14:53:44 2016							
Dual Induction Calibration Report									
Serial-Model:				1987-M&W					
Calibration Performed:				Tue Aug 30 16:23:58 2016					
		Readings		References			Results		
Loop:	Air	Loop		Air	Loop		Gain	Offset	
Deep	178.615	710.235		0.000	255.800	mmho/m	0.530	-36.500	
Medium	161.982	1441.110		0.000	255.800	mmho/m	0.440	-110.500	
Compensated Density Calibration Report									
Serial-Model:				168-986-M&W					
Source / Verifier:				/					
Master Calibration Performed:				Tue Aug 30 15:13:17 2016					
Master Calibration									
		Density		Far Detector		Near Detector			
Magnesium		1.755	g/cc		4691.86		4818.19	cps	
Aluminum		2.675	g/cc		859.57		3020.22	cps	
Spine Angle = 74.61				Density/Spine Ratio = 0.523					
		Size		Reading					
Small Ring		4.00	in		1.03				
Large Ring		14.00	in		1.23				
Compensated Neutron Calibration Report									
Serial Number:				tk10-MW					
Tool Model:				M&W					
Calibration Performed:				Sat Oct 1 10:01:53 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									

Calibration performed:

11/06/2022 22:00:47 2010

Calibrator Value:

1000.0

GAPI

Background Reading:

0.0

cps

Calibrator Reading:

6.2

cps

Sensitivity:

0.5200

GAPI/cps



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Company

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