



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company The Bill Bowman Oil Company		Company The Bill Bowman Oil Company	
Well	Clark B #1	Well	Clark B #1
Field	Hoxie East	Field	Hoxie East
County	Sheridan	County	Sheridan
State	Kansas	State	Kansas
Location: API #: 15-179-21468-00-00		Other Services	
1571' FNL & 771' FEL		CNL/CDL DIL	
Permanent Datum	Ground Level	Elevation	2763'
Log Measured From	Kelly Bushing	K.B.	2768'
Drilling Measured From	Kelly Bushing	D.F.	N/A
		G.L.	2763'
Date	8/16/2020		
Run Number	One		
Depth Driller	4125'		
Depth Logger	4126'		
Bottom Logged Interval	4125'		
Top Log Interval	3300'		
Casing Driller	8.625" @ 261'		
Casing Logger	260'		
Bit Size	7.875"		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	700		
Density / Viscosity	9.0 57		
pH / Fluid Loss	11.0 5.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.2 @ 68		
Rmt @ Meas. Temp	.90 @ 68		
Rmc @ Meas. Temp	1.62 @ 68		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.70 @ 117		
Operating Rig Time	2 Hours		
Max Rec. Temp. F	117 Deg/F		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	Jerry Green	Bill Bowman	

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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.

Hoxie Kansas
2 1/2 South, 2 West, South Into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

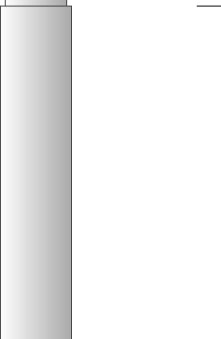
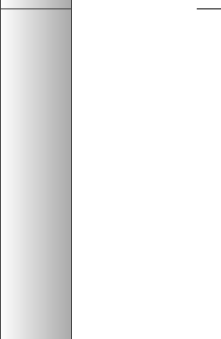
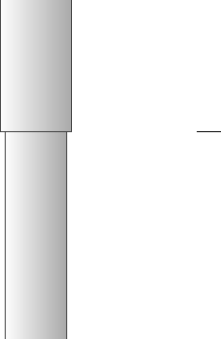
Engineer: J. Henrickson
Operator: T. Martin
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Jerry Green
Secondary Witness: Bill Bowman
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 117	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 5	mV 185	degF 74	Off	ft 4126

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	44.50			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	41.40			CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	40.65						
LSD	32.35			CDL-M&W (915-956)	8.50	4.00	250.00
DCAL	32.33			ML-PSI UDM ML (UDM-01)	11.50	4.00	215.00
SSD	31.85			Stackable Microlog Tools			
MCAL	20.87						
MI	20.87						
MN	20.87						
RLL3	15.80						
RLL3F	15.79						
CILD	8.00			DIL-M&W (55-222)	18.50	3.50	220.00

CILM 4.70

SP 0.20

Dataset: bowman_clark_b_1.db: field/well/stackml/pass3.1
Total length: 47.00 ft
Total weight: 835.00 lb
O.D.: 4.00 in



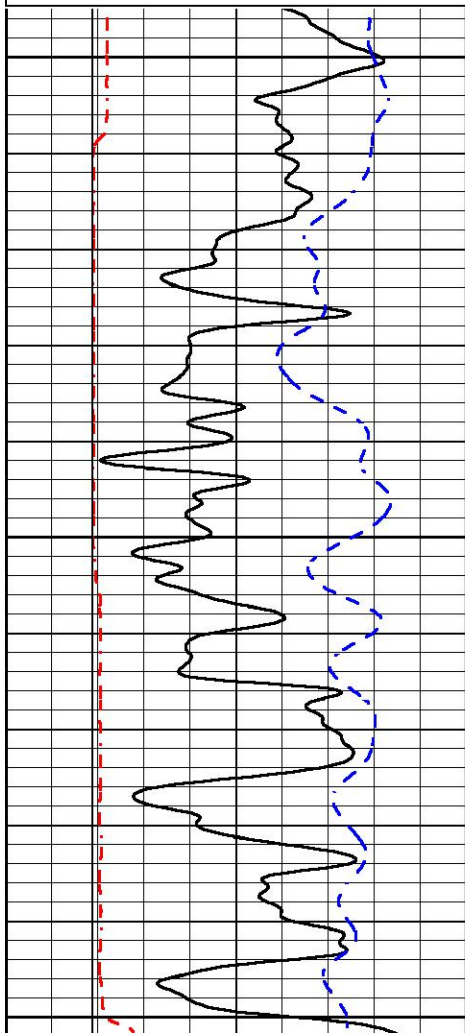
MIDWEST WIRELINE

MAIN PASS

Database File bowman_clark_b_1.db
Dataset Pathname stackml/pass3.1
Presentation Format micro
Dataset Creation Sun Aug 16 07:12:02 2020
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

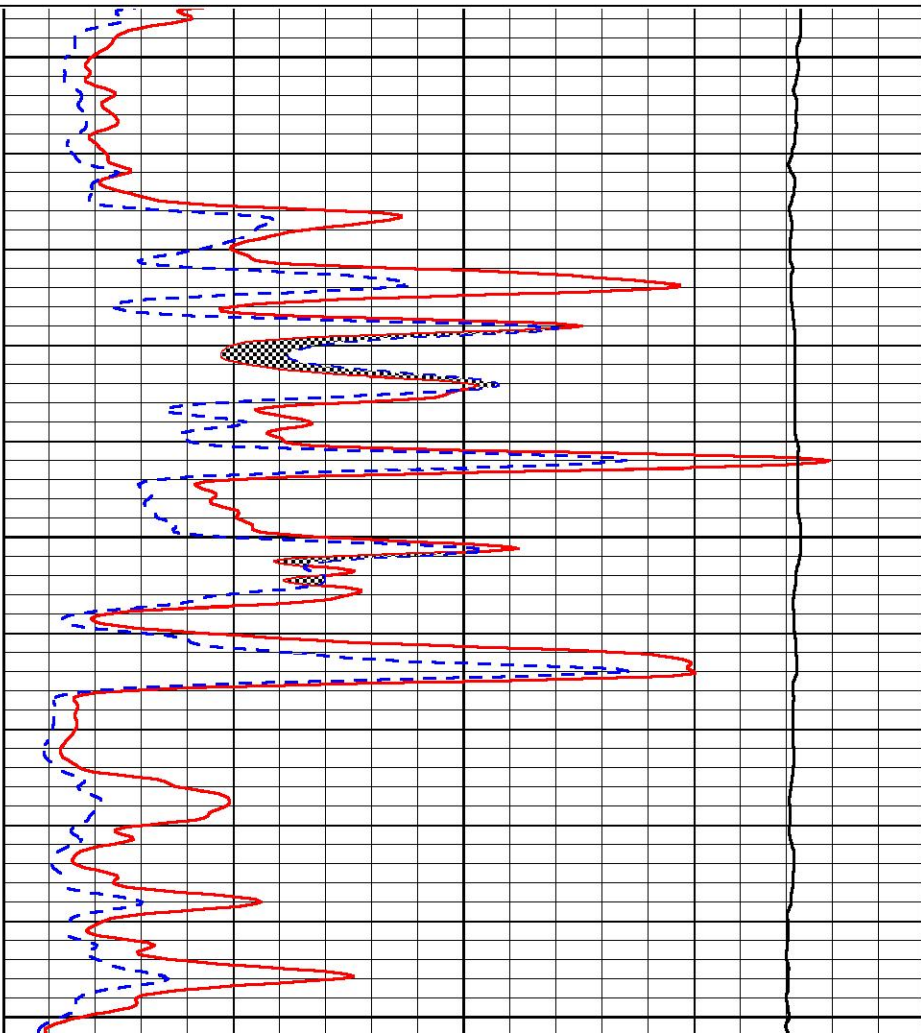
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0

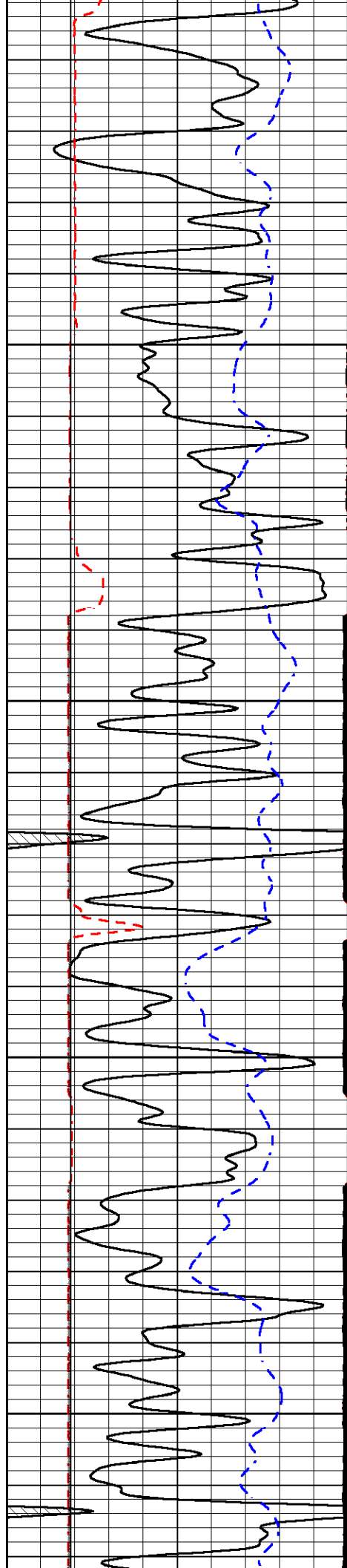


3300

3350

3400



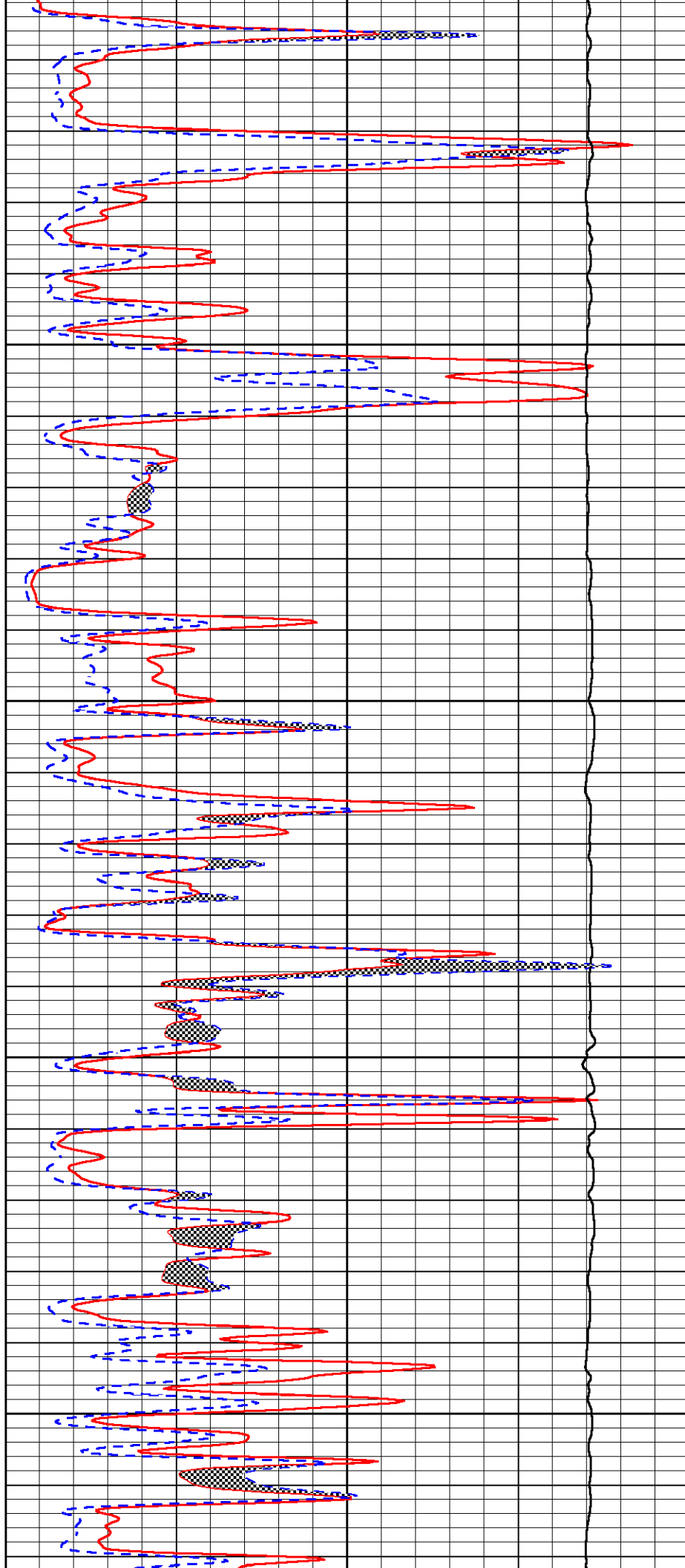


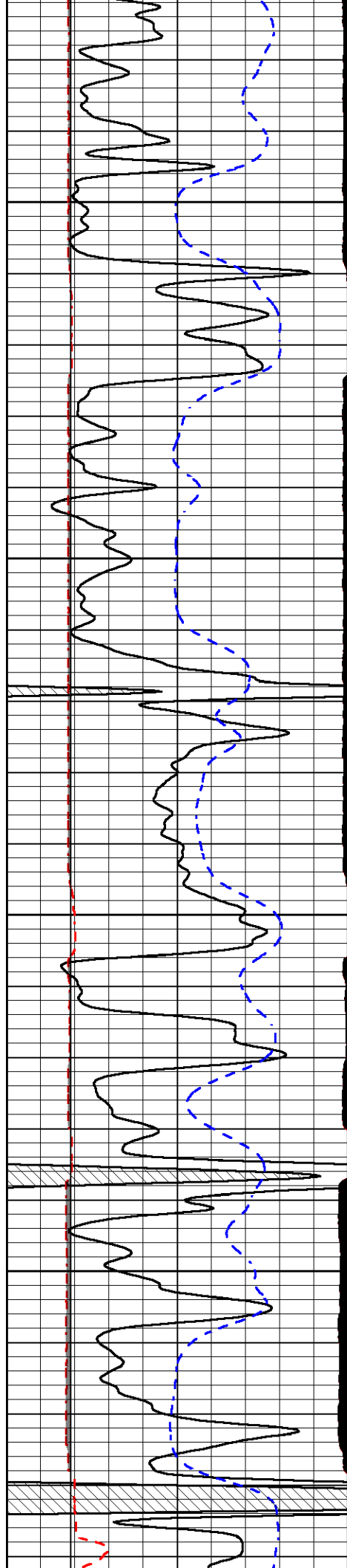
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3500

3550

3600



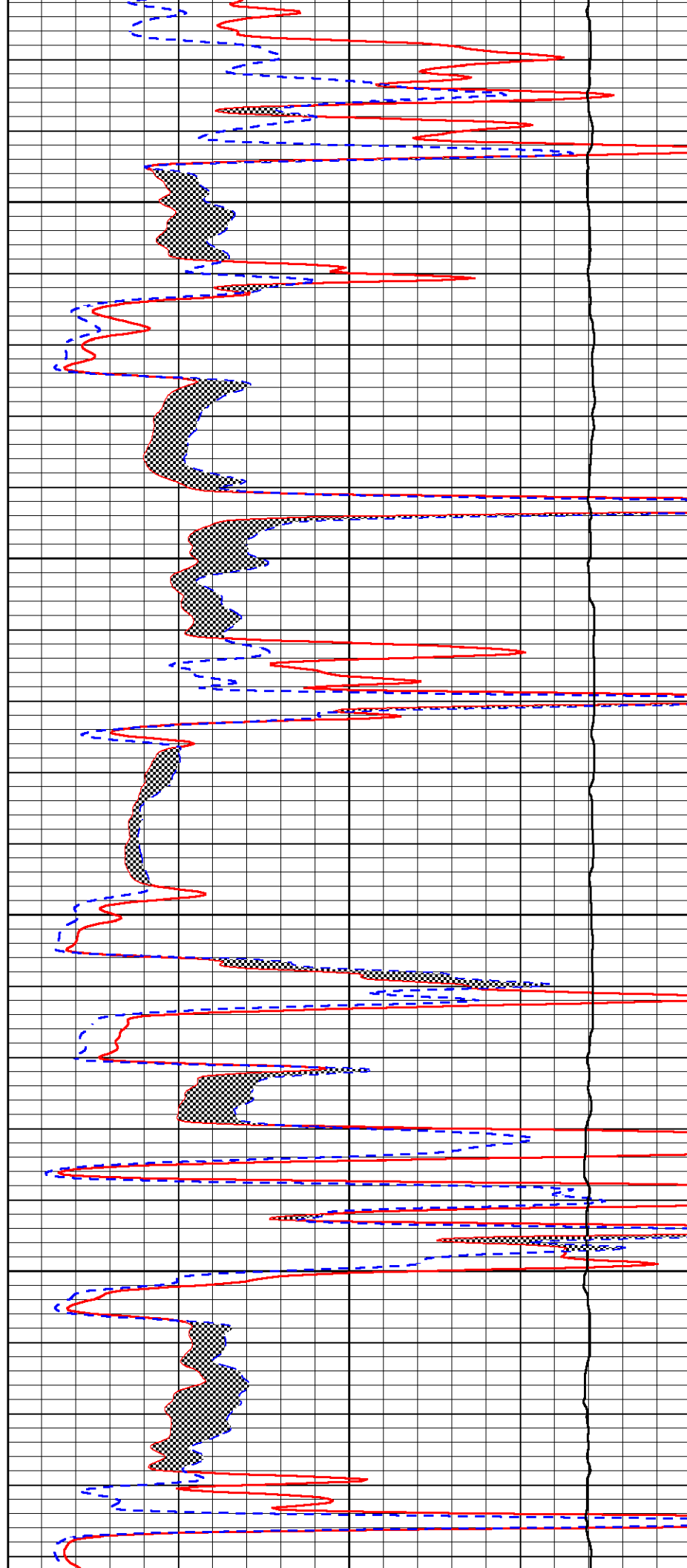


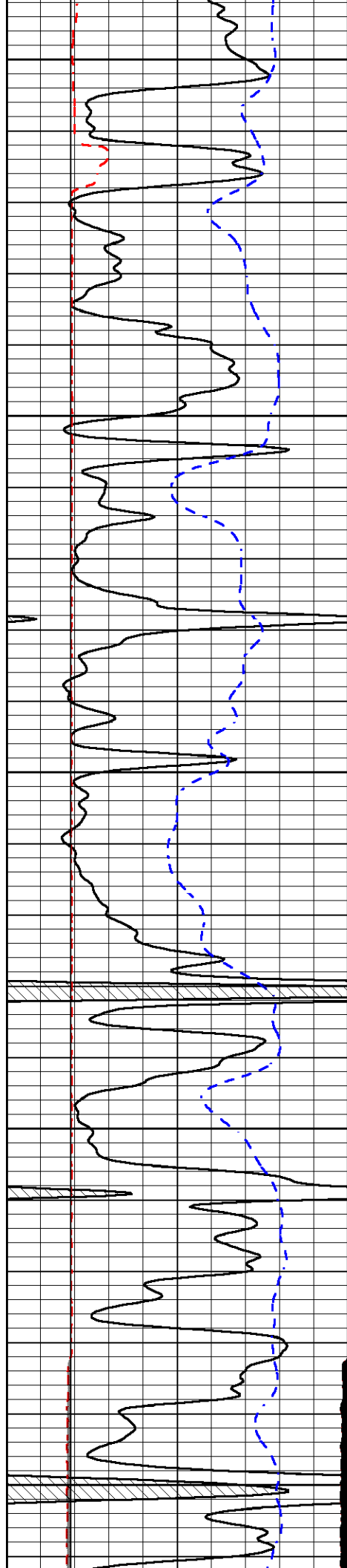
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3700

3750

3800





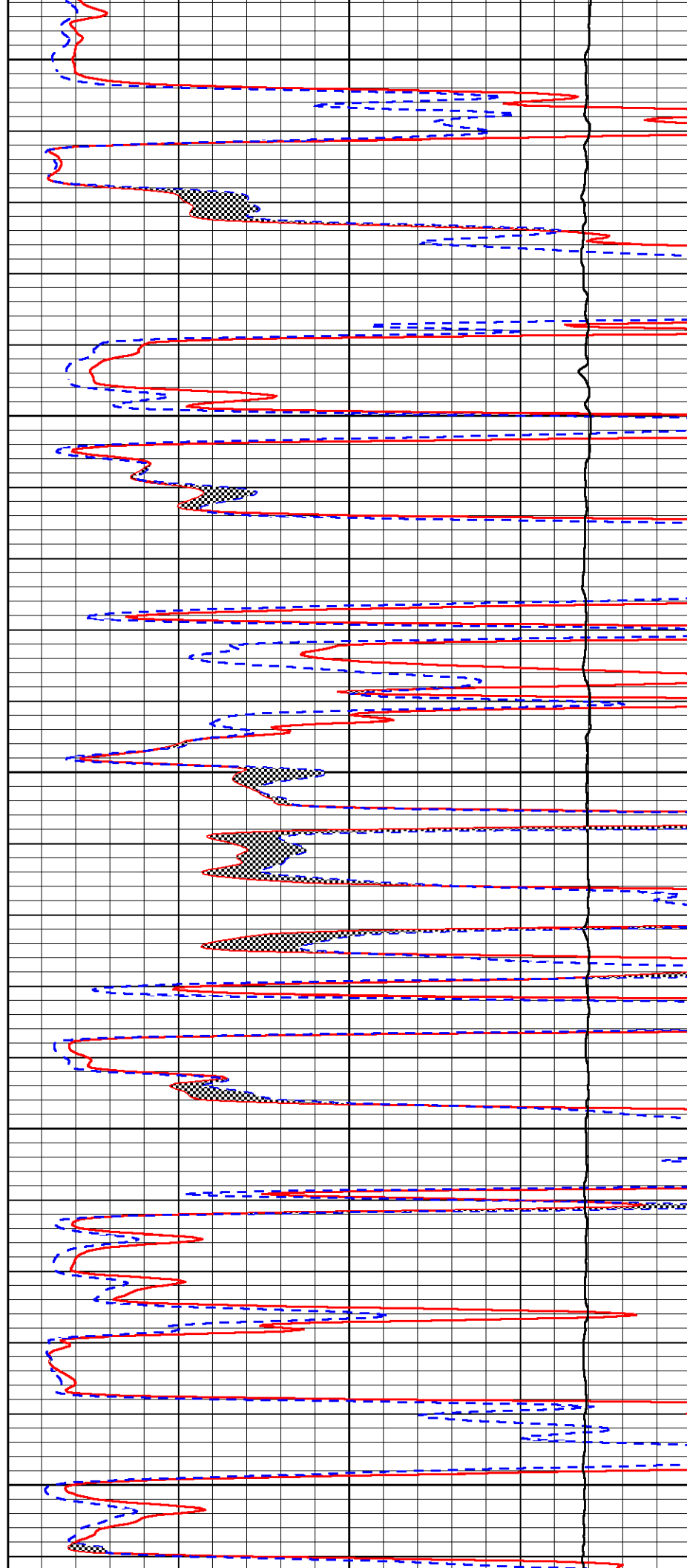
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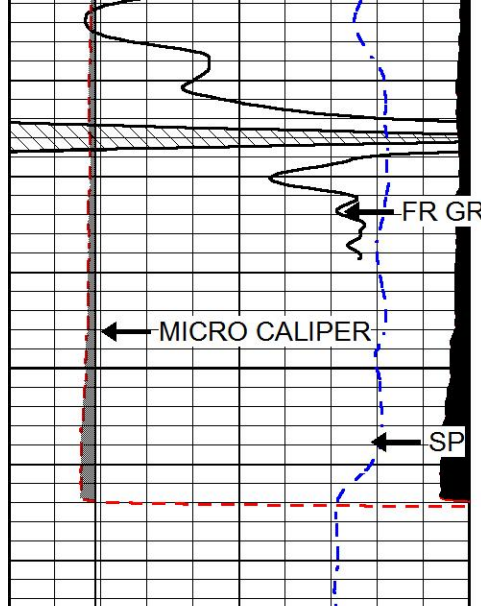
3900

3950

4000

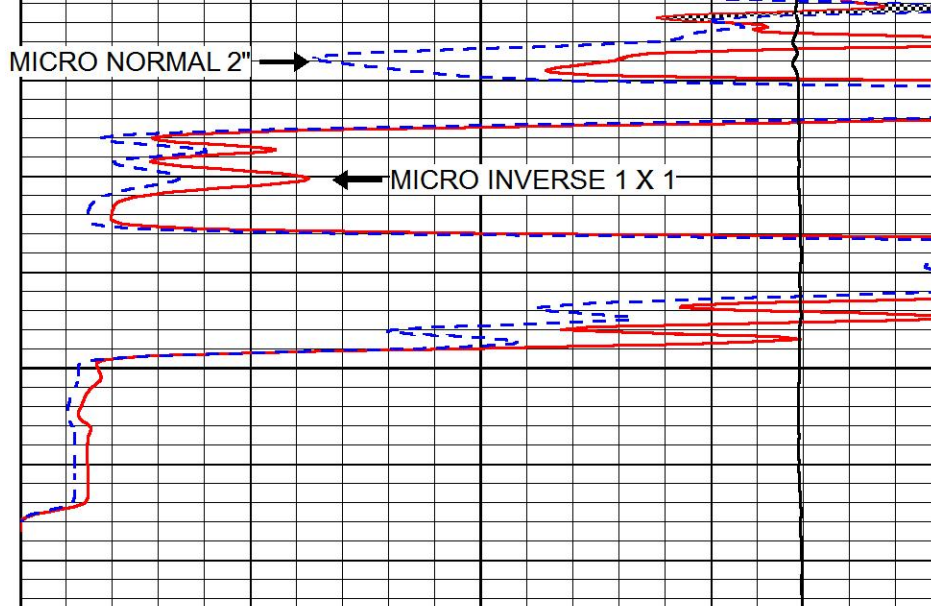
4050





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

4100



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

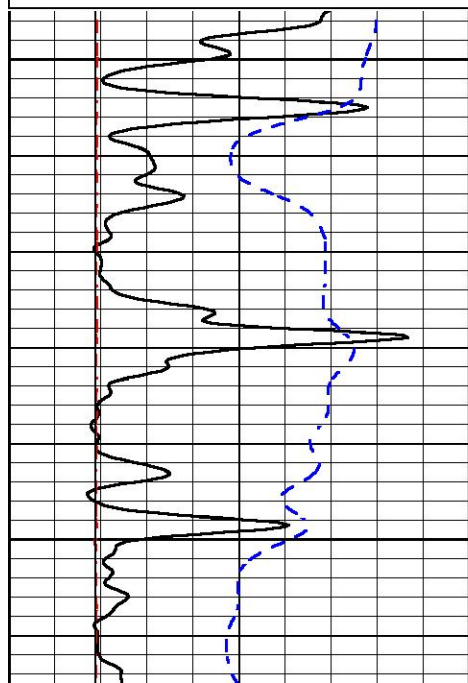


MIDWEST WIRELINE

REPEAT SECTION

Database File bowman_clark_b_1.db
 Dataset Pathname stackml/pass2.1
 Presentation Format micro
 Dataset Creation Sun Aug 16 07:13:43 2020
 Charted by Depth in Feet scaled 1:240

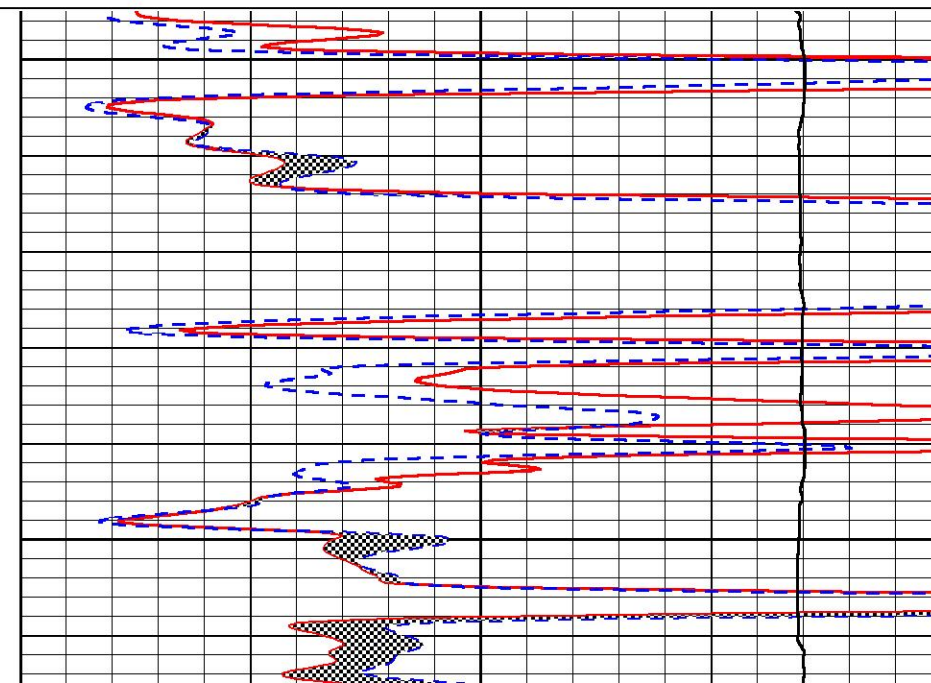
0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

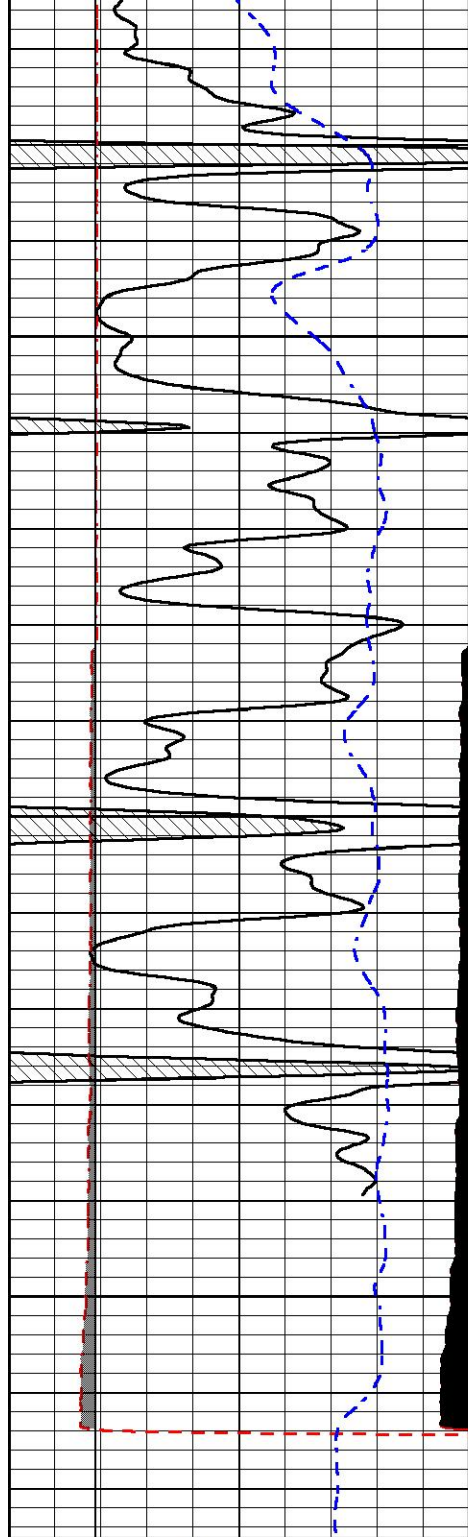


3900

3950

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



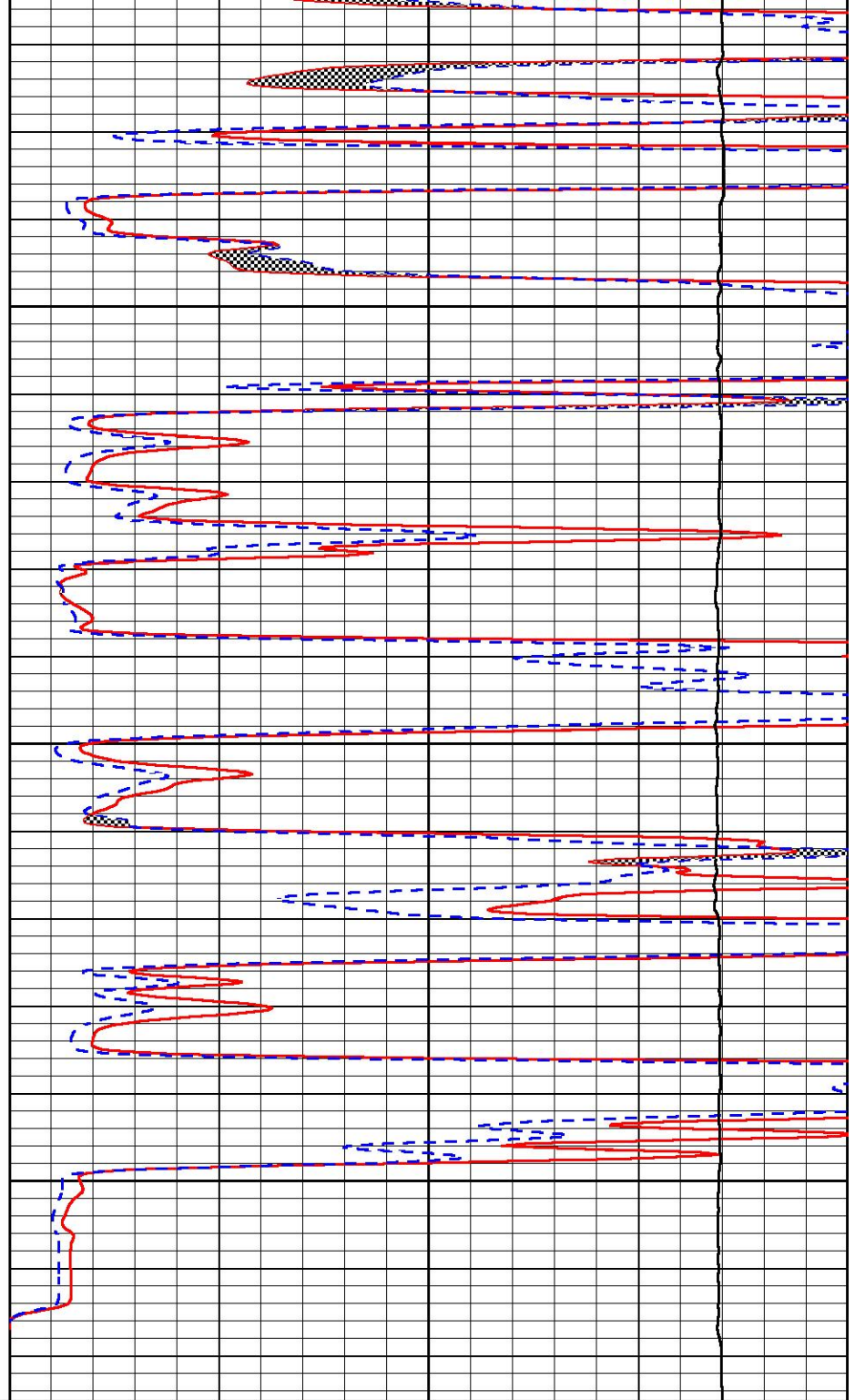


4000

4050

4100

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



MIDWEST WIRELINE

Company	The Bill Bowman Oil Company
Well	Clark B #1
Field	Hoxie East
County	Sheridan
State	Kansas