



MICRORESISTIVITY

MIDWEST WIRELINE

CompanySatchell Creek Petroleum LLC	
Well	Hobbs A #5-34
Field	
County	Graham
State	Kansas
Company Satchell Creek Petroleum LLC	
Well Hobbs A #5-34	
Field	
County	Graham
State	Kansas
Location:	API # : 15-065-24287-00-00
SE SW NW NE	
993 FNL & 2184 FEL	
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
SEC 34 TWP 10S RGE 25W	
Elevation 2486	
Other Services	
CNL/CDL	
DIL	
Elevation	
K.B. 2493	
D.F.	
G.L. 2486	
Date	9/6/2023
Run Number	One
Depth Driller	4444
Depth Logger	4438
Bottom Logged Interval	4437
Top Log Interval	3300
Casing Driller	8.625 @ 220
Casing Logger	221
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity ,ppm CL	1700
Density / Viscosity	9.2 54
pH / Fluid Loss	11.0 5.4
Source of Sample	Flowline
Rm @ Meas. Temp	0.75 @ 74
Rmf @ Meas. Temp	0.56 @ 74
Rmc @ Meas. Temp	1.01 @ 74
Source of Rmf / Rmc	Charts
Rm @ BHT	0.46 @ 120
Operating Rig Time	4 Hours
Max Rec. Temp. F	120
Equipment Number	P-24
Location	Hays
Recorded By	T. Martin
Witnessed By	Sydney Smith

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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.

St Peter, KS, S to Graham Co Rd B,
1/4 W, S then W into

Log Measured From: Kelly Bushing 7 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: T. Martin
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Sydney Smith
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	40.75		GR-M&W (106)	3.00	3.50	50.00	
CNLSC	37.65		CNT-M&W (207)	5.00	3.50	100.00	
CNSSC	36.90						
				MWLith-STEP LITHO (704-10) Long Litho Mandrel	8.92	5.00	250.00
LCAL	28.21		ML-PSIML (401)	7.58	4.00	65.00	
LLW8N	28.21						
LLW7N	28.21						
LLW6N	28.21						
LLW5N	28.21						
LLW4N	28.21						
LLW3N	28.21						
LLW2N	28.21						
LLW1N	28.21						
LSLOCK	27.96						
LLLOCK	27.96						
PELTMPR	27.96						
LSHVNG	27.96						
LLHVNG	27.96						
LSW8N	27.71						
LSW7N	27.71						
LSW6N	27.71						
LSW5N	27.71						
LSW4N	27.71						
LSW3N	27.71						
LSW2N	27.71						
LSW1N	27.71						
MCAL	19.58		DIL-M&W (507)	18.25	3.50	220.00	
MI	19.58						
MN	19.58						
RLL3F	15.50						
RLL3	15.50						
CILD	8.33						
CILM	4.50						
SP	0.20						
Dataset: satchell_hobbs a #5-34.db: field/well/StkMI/pass3.1 Total length: 42.75 ft Total weight: 685.00 lb O.D.: 5.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\satchell_hobbs a #5-34.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 120	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0	SNDERRM mmho/m -6	SPSHIFT mV 590	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 4438		

Variable Description

BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
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

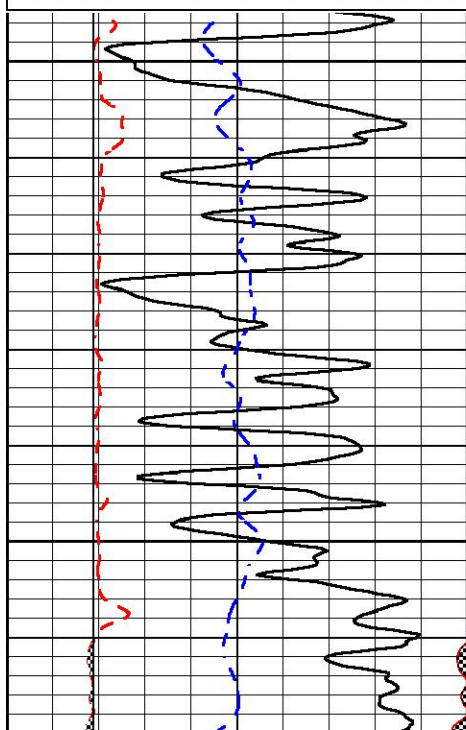
DETAIL SECTION

MAIN PASS

Database File satchell_hobbs a #5-34.db
Dataset Pathname StkMI/pass3.1
Presentation Format _micro
Dataset Creation Wed Sep 06 03:46:09 2023
Charted by Depth in Feet scaled 1:240

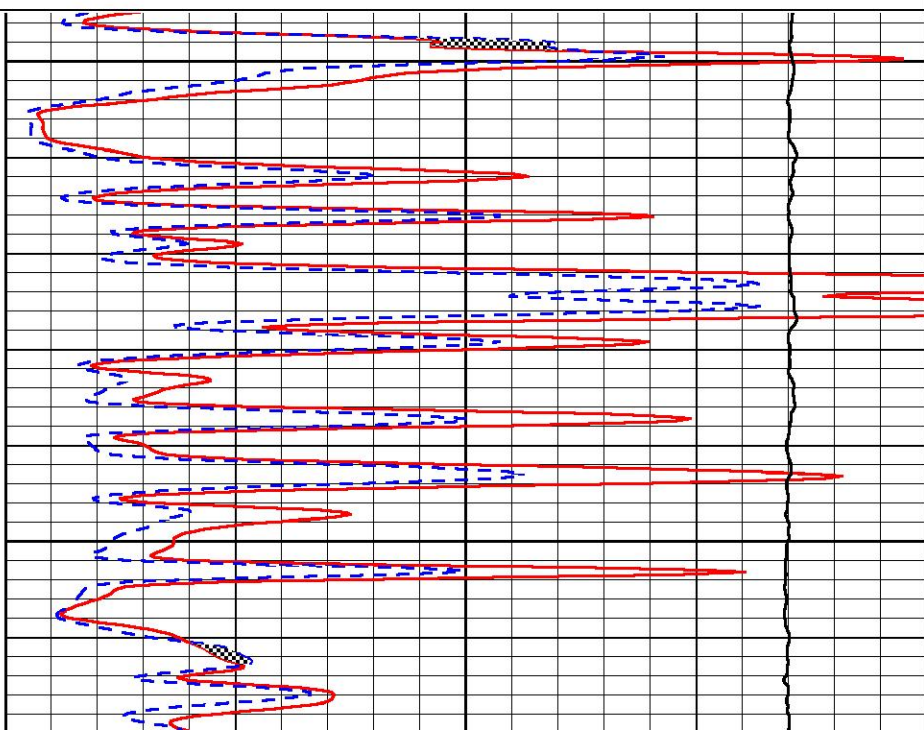
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	sp (mV)	0

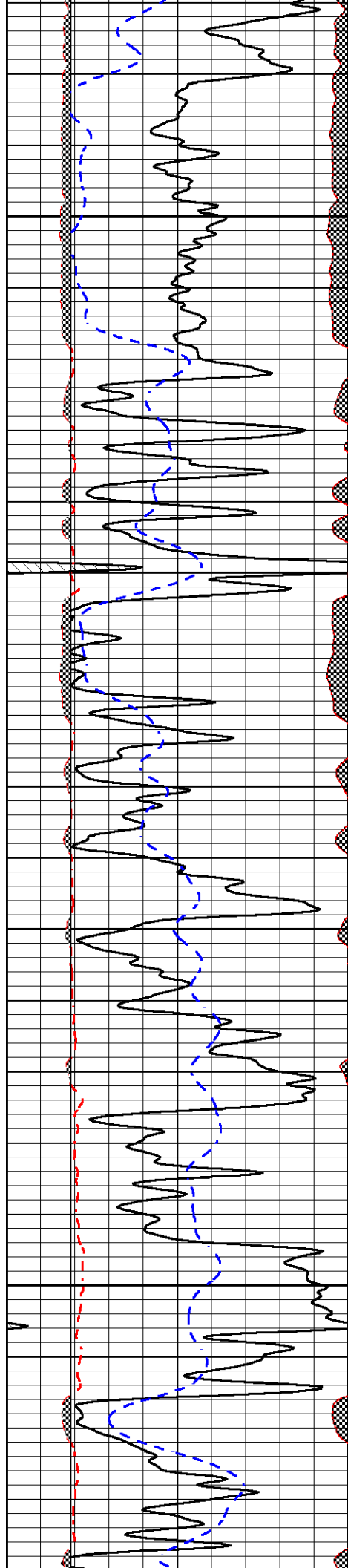
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3300

3350



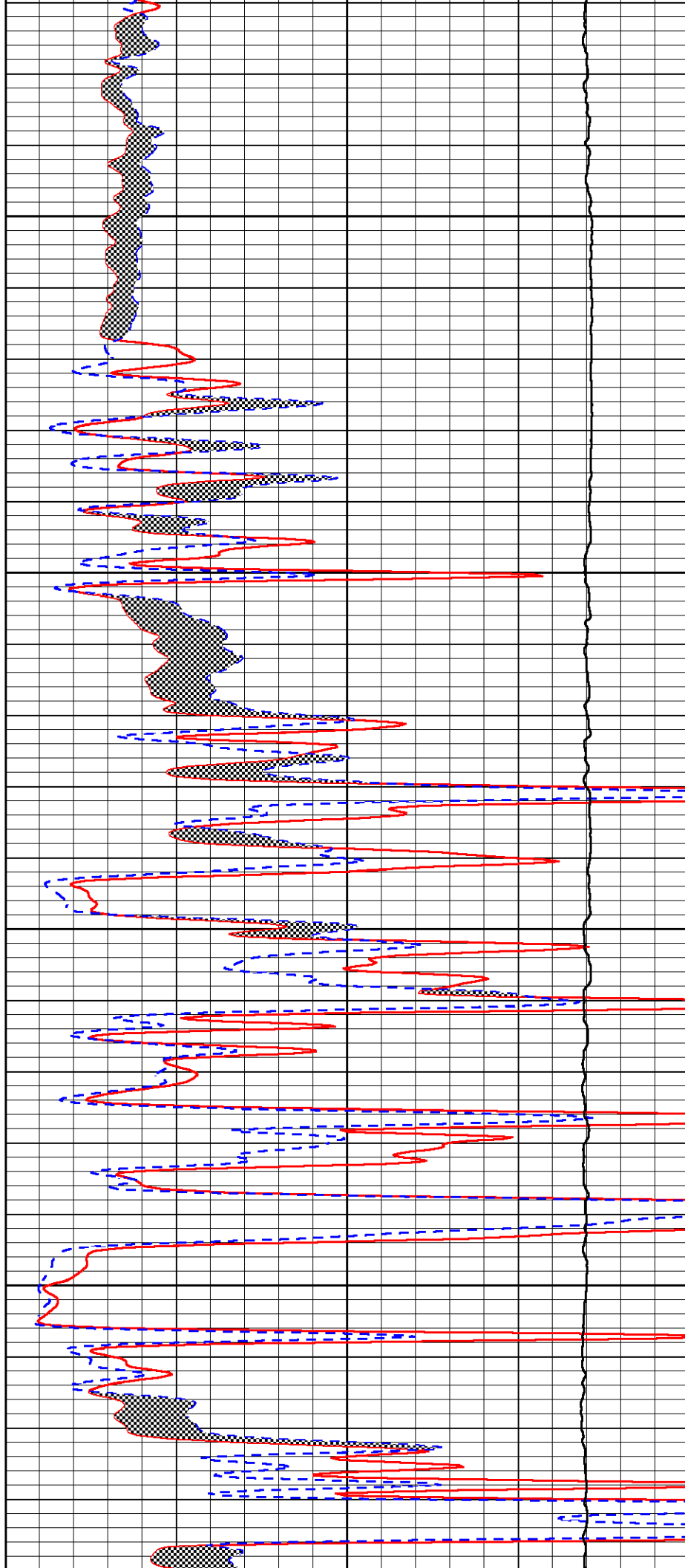


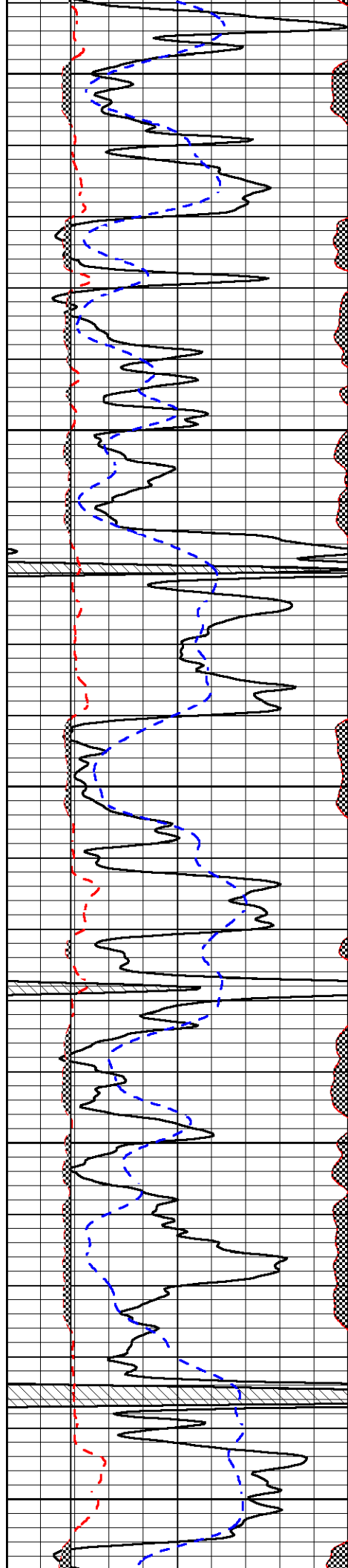
3400

3450

3500

3550





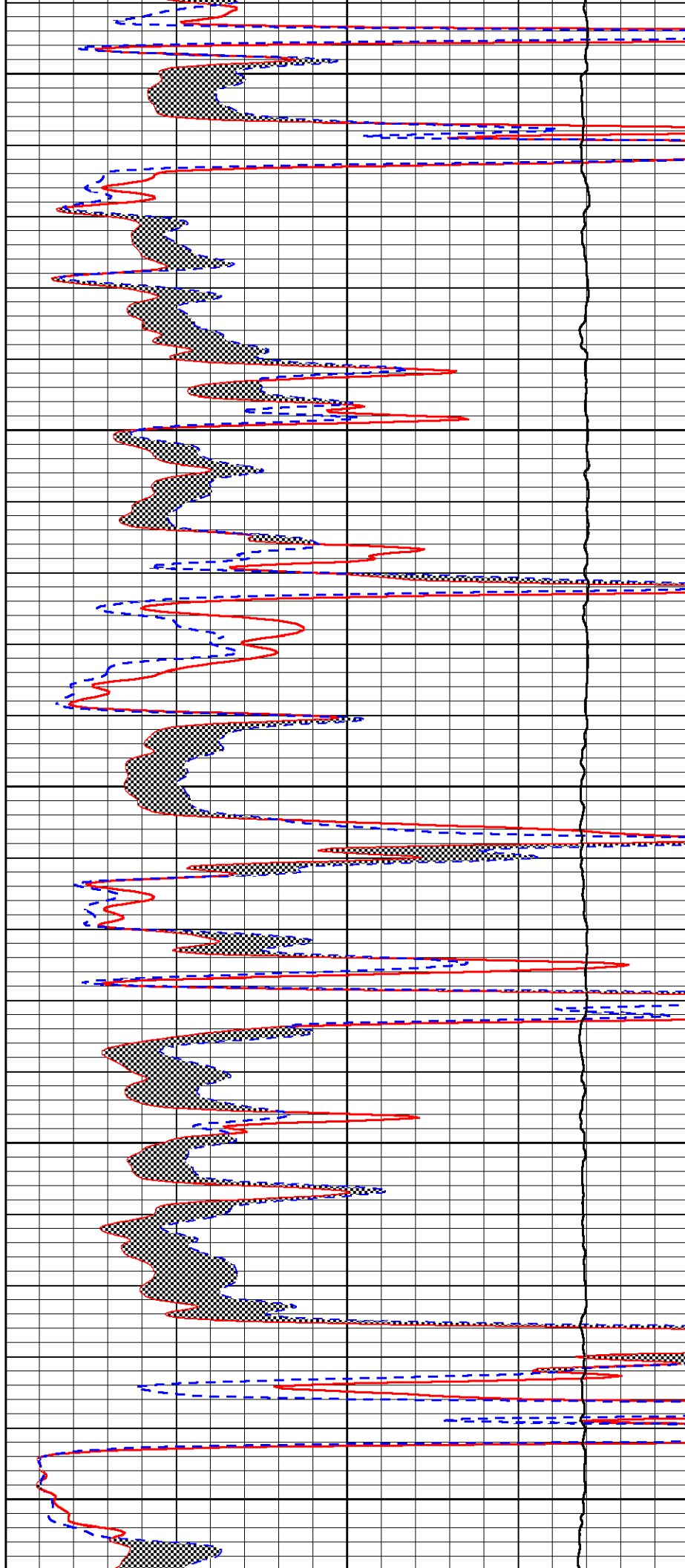
3600

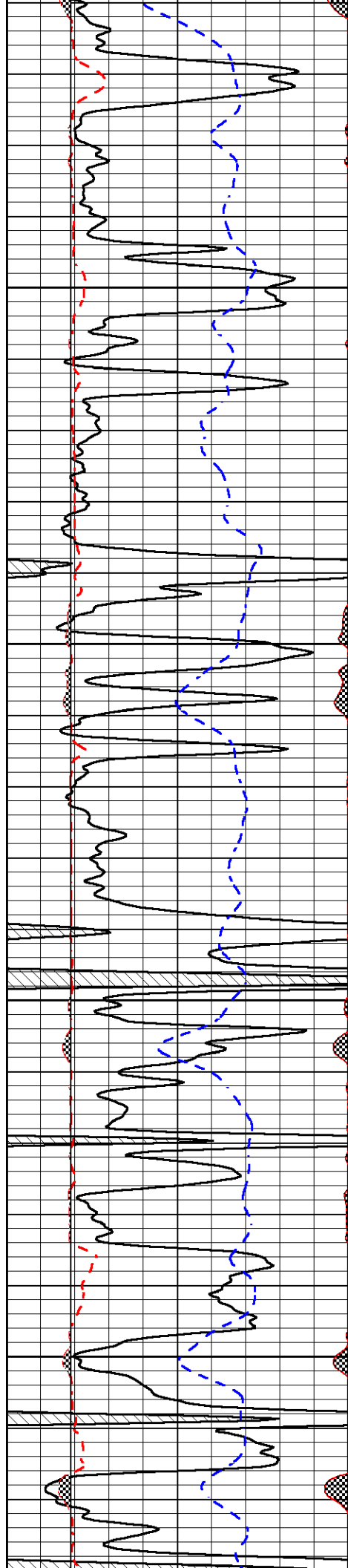
3650

3700

3750

3800



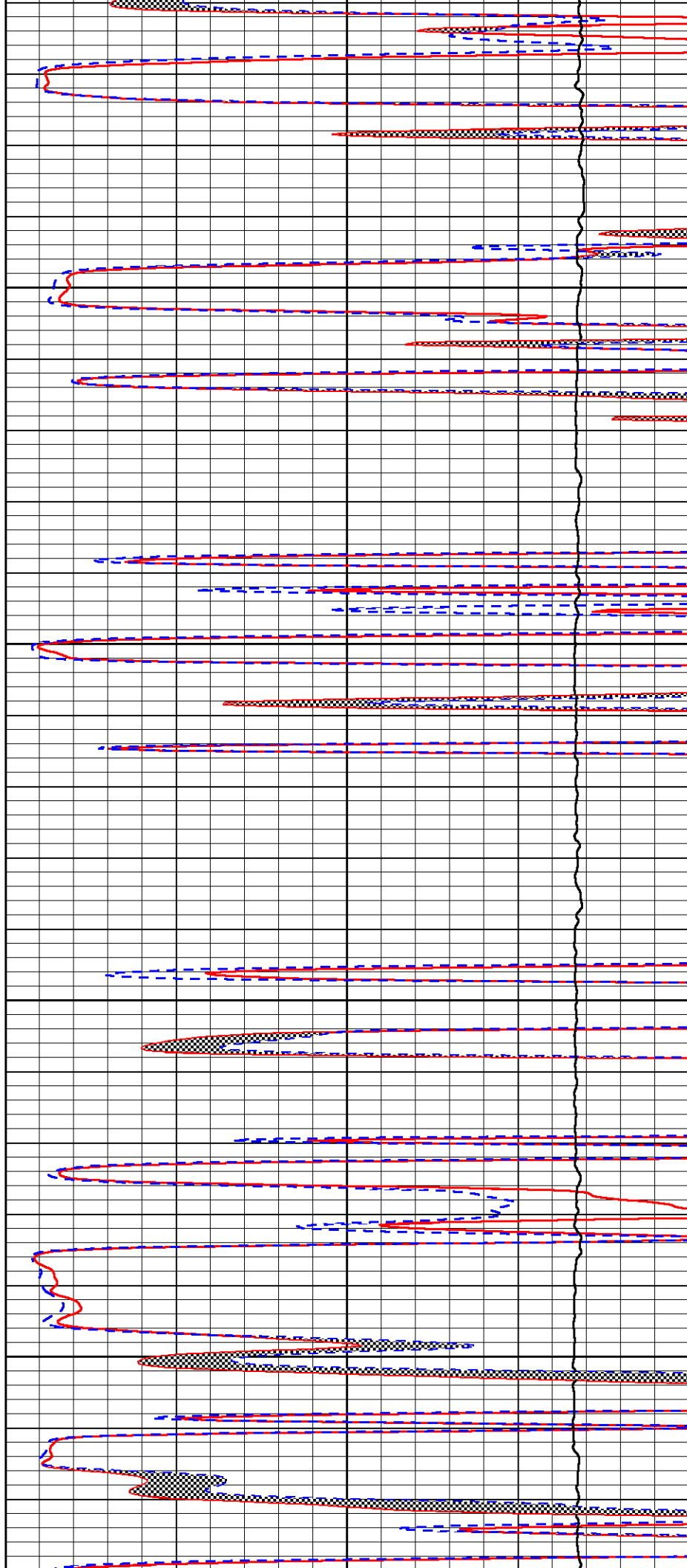


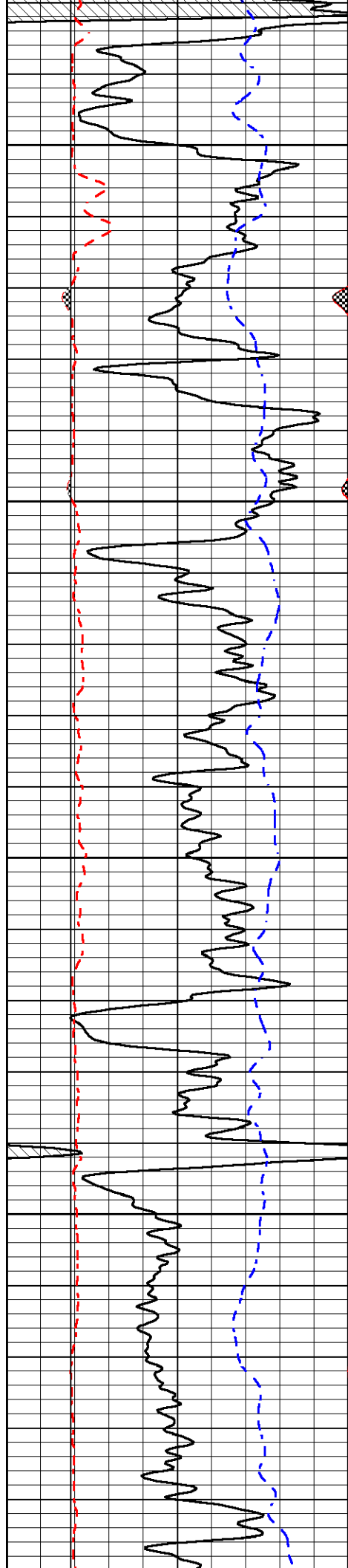
3850

3900

3950

4000





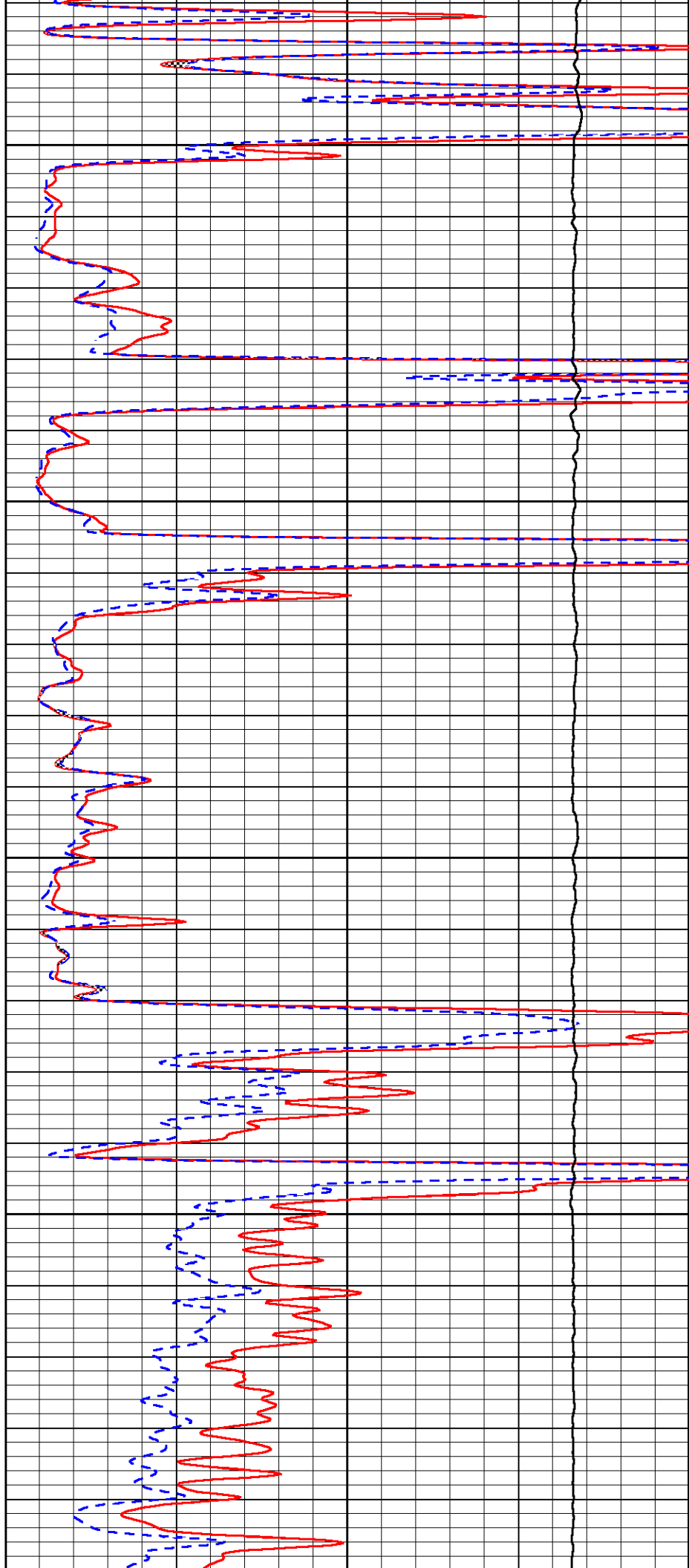
4050

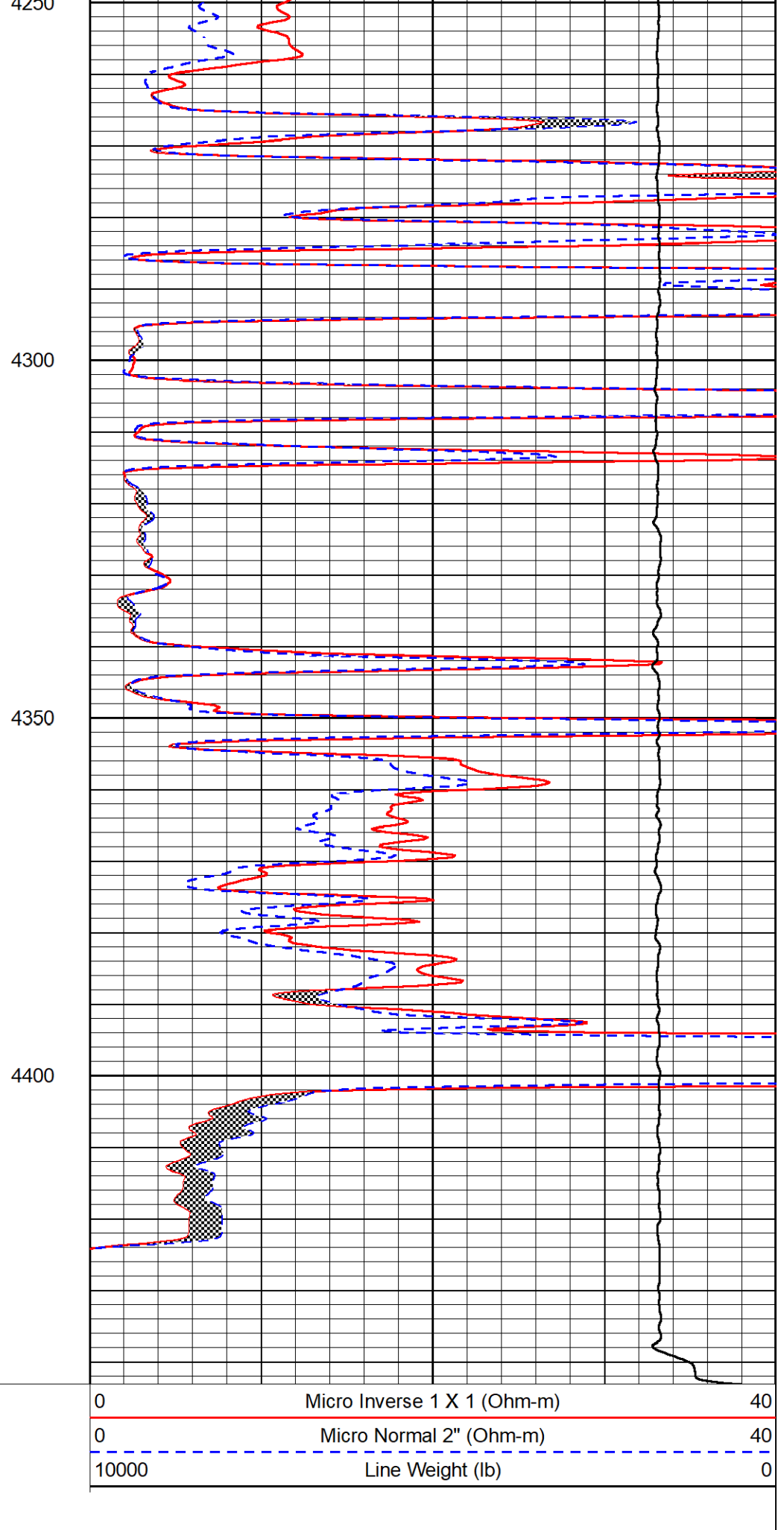
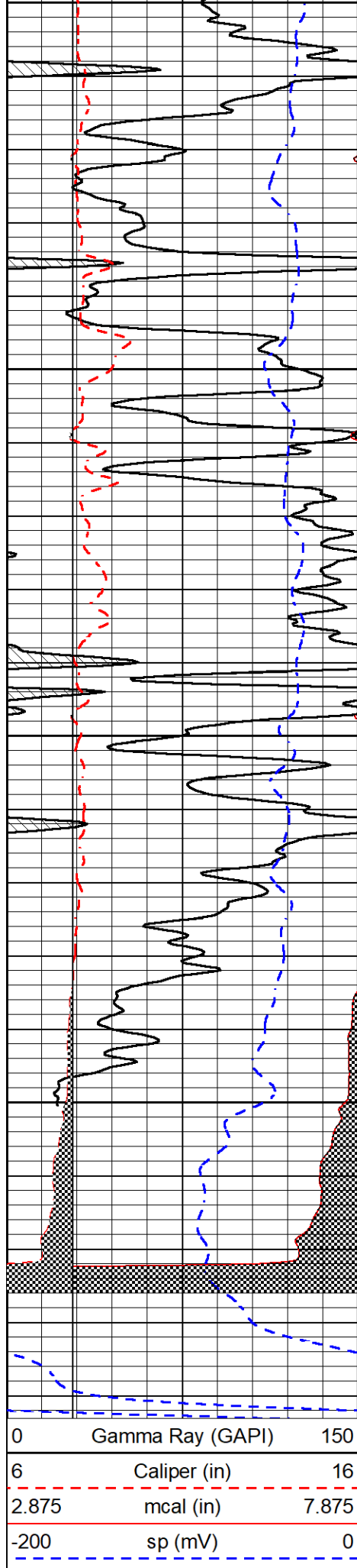
4100

4150

4200

4250







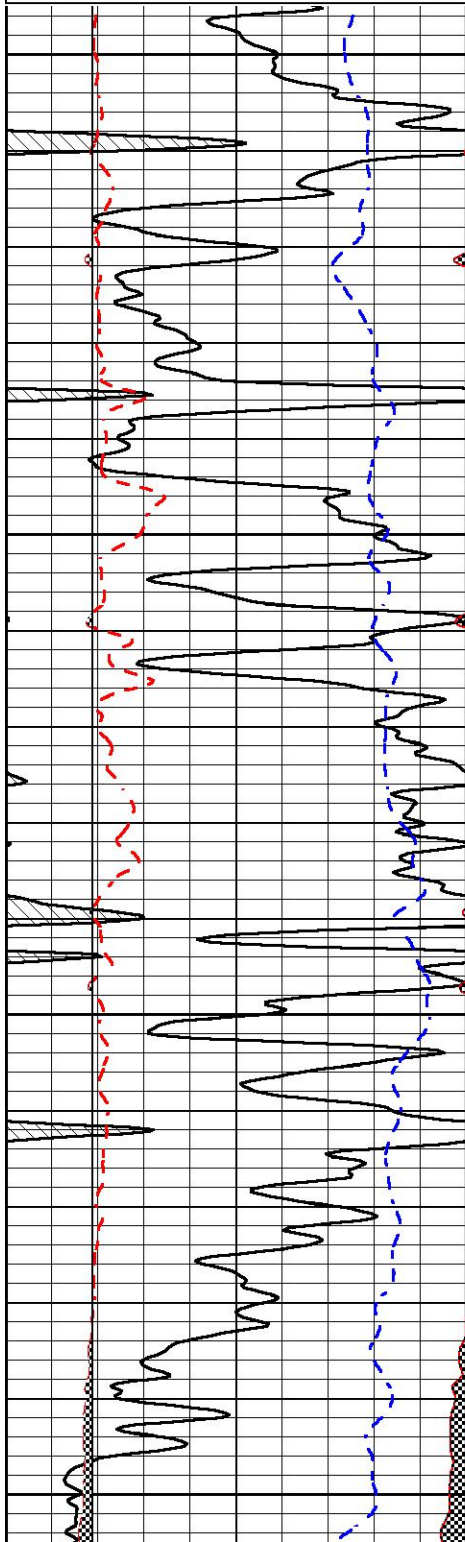
REPEAT SECTION

REPEAT PASS

Database File satchell_hobbs a #5-34.db
Dataset Pathname StkMI/pass2.1
Presentation Format _micro
Dataset Creation Wed Sep 06 03:08:21 2023
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

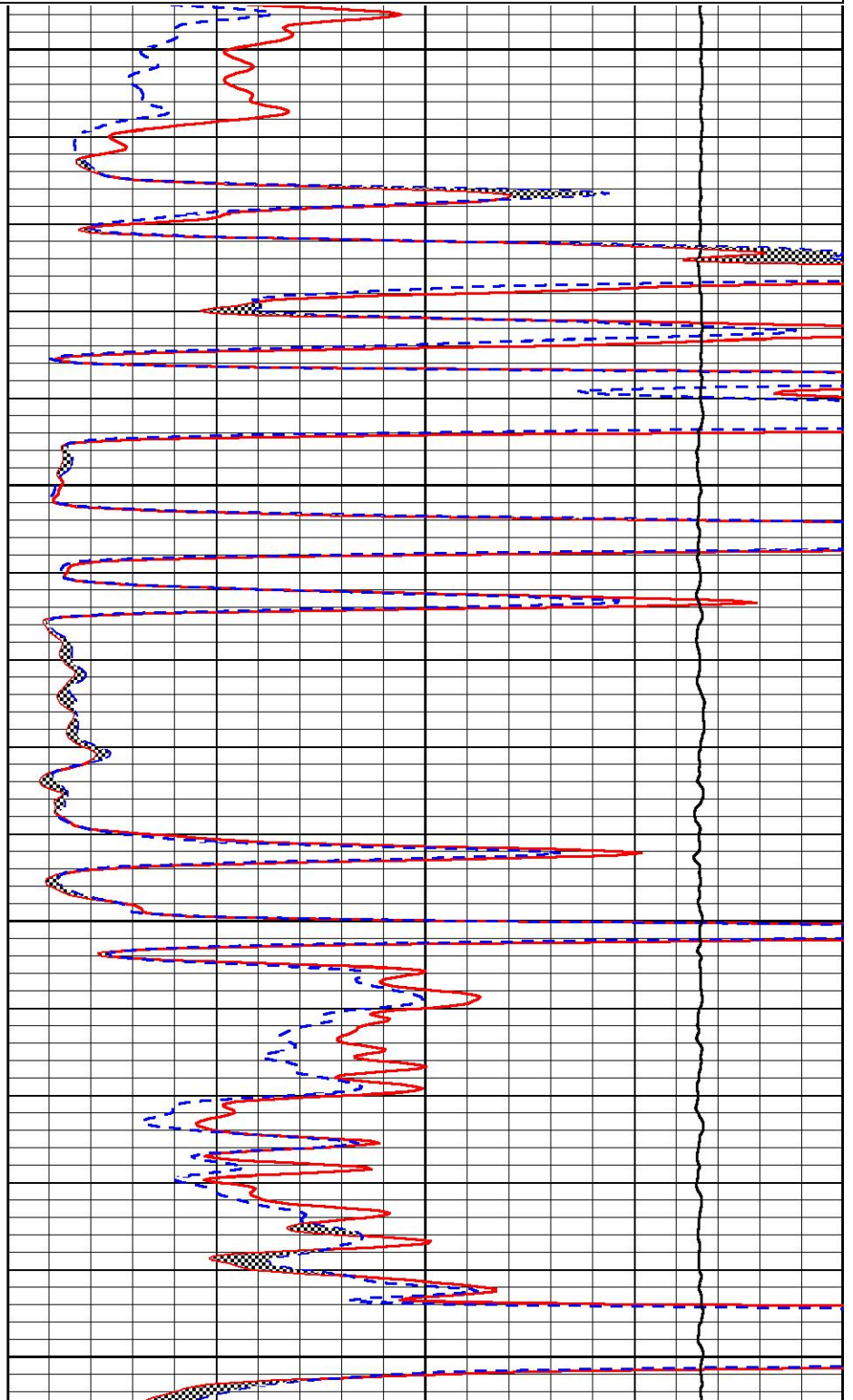


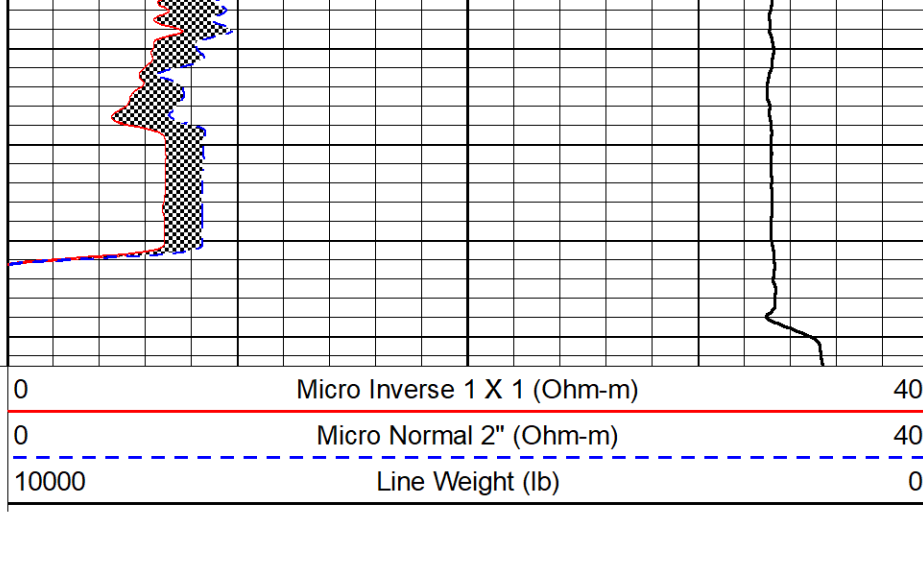
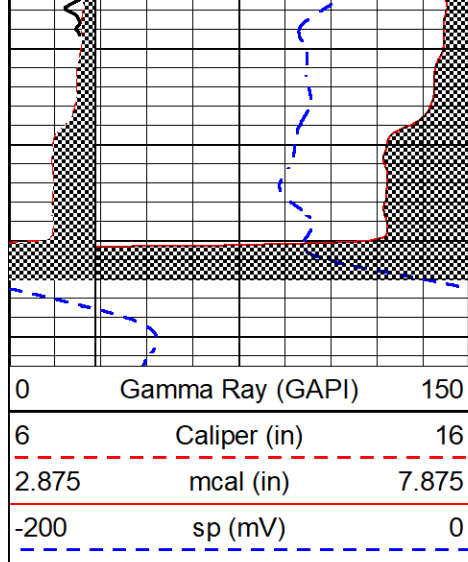
4250

4300

4350

4400





Calibration Report

Database File satchell_hobbs a #5-34.db
 Dataset Pathname StkMI/pass3.1
 Dataset Creation Wed Sep 06 03:46:09 2023

Dual Induction Calibration Report

Serial-Model: 507-M&W
 Surface Cal Performed:

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	68.570	638.100	0.000	255.800	mmho/m	0.500	-37.000
Medium	184.288	716.191	0.000	255.800	mmho/m	0.430	-75.000

Microlog Calibration Report

Serial-Model: 401-PSIML
 Performed: Sat Sep 2 13:05:02 2023

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	18500.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-0.7500
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-138.8000

LITHODENSITY Calibration Report

Serial Number: 704-10
 Tool Model: STEP LITHO
 Performed: Fri Jun 23 15:26:01 2023

Source:

	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	51	54	202	252	21	70	42	1	cps
LS:	85	96	363	462	53	147	97	3	cps

Aluminum:									
SS:	870	1018	2321	2004	37	71	43	2	cps
LS:	1057	1828	3315	1570	61	147	91	5	cps

Magnesium:									
SS:	1459	1669	3829	2914	42	70	46	3	cps
LS:	4526	7550	13047	4982	98	135	93	13	cps
Aluminum+Iron:									
SS:	553	719	1939	1750	37	72	45	2	cps
LS:	613	1297	2812	1404	60	146	96	4	cps
		Density			PE				
		Actual	Calibrated			Actual	Calibrated	Quality	
Background:									
SS:							0.245		
LS:							0.205		
Aluminum:									
SS:	2.6000	2.6000	g/cc						
LS:	2.6000	2.6000	g/cc						
Magnesium:									
SS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.210			
LS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.184			
Aluminum+Iron:									
SS:						6.1800	0.228		
LS:						6.1800	0.206		

Before Survey									
Performed:	Wed Feb 9 13:15:42 2022								
SS:	0	0	0	0	0	0	0	0	cps
LS:	1370	1580	3705	3037	48	80	50	4	cps
After Survey									
Performed:	Wed Feb 9 13:16:02 2022								
SS:	0	0	0	0	0	0	0	0	cps
LS:	1400	1600	3800	3100	60	100	70	6	cps

Caliper:	Reference:		Reading:						
Small Ring:	6.0 in		0.2						
Large Ring:	15.0 in		0.8						
Gain:	16.161								
Offset:	1.070								

Compensated Neutron Calibration Report									
					Serial Number:	207			
					Tool Model:	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		

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 106
 Tool Model: M&W
 Performed: Tue Aug 22 07:35:27 2023

 Calibrator Value: 500.0 GAPI

 Background Reading: 24.0 cps
 Calibrator Reading: 637.0 cps

 Sensitivity: 0.6000 GAPI/cps



Company Satchell Creek Petroleum LLC
 Well Hobbs A #5-34
 Field
 County Graham
 State Kansas