



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Blake Exploration, LLC		Company Blake Exploration, LLC	
Well	Roberts #2	Well	Roberts #2
Field	LeSage West	Field	LeSage West
County	Graham	County	Graham
State	Kansas	State	Kansas
Location: API #: 15-065-24316-0000		Other Services	
SEC 12 TWP 7S RGE 21W		CNL/CDL DIL	
Permanent Datum	Ground Level	Elevation	2112
Log Measured From	Kelly Bushing	K.B.	2120
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	2112
Date	07/02/2024		
Run Number	One		
Depth Driller	3623		
Depth Logger	3620		
Bottom Logged Interval	3619		
Top Log Interval	3000		
Casing Driller	8.625 @ 222		
Casing Logger			
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2200		
Density / Viscosity	9.2 58		
pH / Fluid Loss	10.5 7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.64 @ 85		
Rmt @ Meas. Temp	0.64 @ 85		
Rmc @ Meas. Temp	1.15 @ 85		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.64 @ 112		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	112		
Equipment Number	P-108		
Location	HAYS		
Recorded By	Justin Trout		
Witnessed By	Mike Davignon		

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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.

Nicodemus, Ks
West to 390th, 5 1/2 North
1/2 East South into

Log Measured From: Kelly Bushing 8 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: Justin Trout
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Mike Davignon
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (105)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (207)	5.00	3.50	100.00
CNSSC	36.48					
LSD	28.18		CDL-M&W (305-24)	8.50	4.00	250.00
DCAL	28.17					
SSD	27.68					
ML-PSIML (401)			7.58	4.00	65.00	
MCAL	19.58					
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					
DIL-M&W (507)			18.25	3.50	220.00	
CILD	8.33					
CILM	4.50					
SP	0.20					
Dataset: blake exploration llc_roberts #2.db: field/well/STKML/pass3.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in						

Log Variables

DatabaseC:\ProgramData\Warrior\Data\blake exploration llc_roberts #2.db
Dataset field/well/STKML/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 112	CASEOD in 4.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0.75	SNDERRM mmho/m -3.5	SPSHIFT mV 417	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 3620		

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

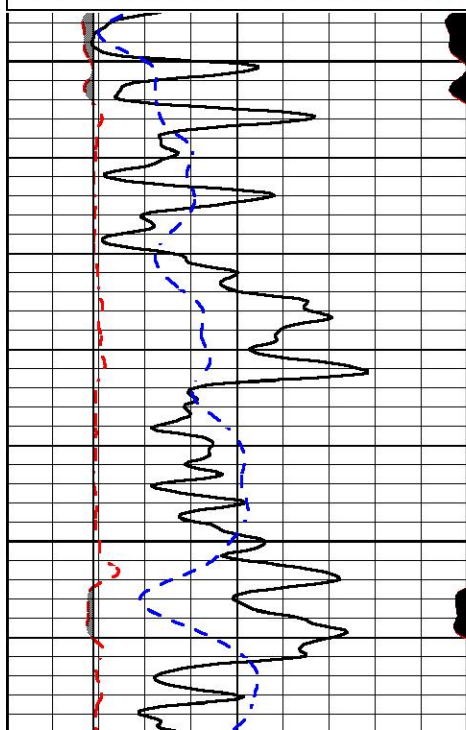
DETAIL SECTION

MAIN PASS

Database File blake exploration llc_roberts #2.db
Dataset Pathname STKML/pass3.1
Presentation Format _micro
Dataset Creation Tue Jul 02 02:46:01 2024
Charted by Depth in Feet scaled 1:240

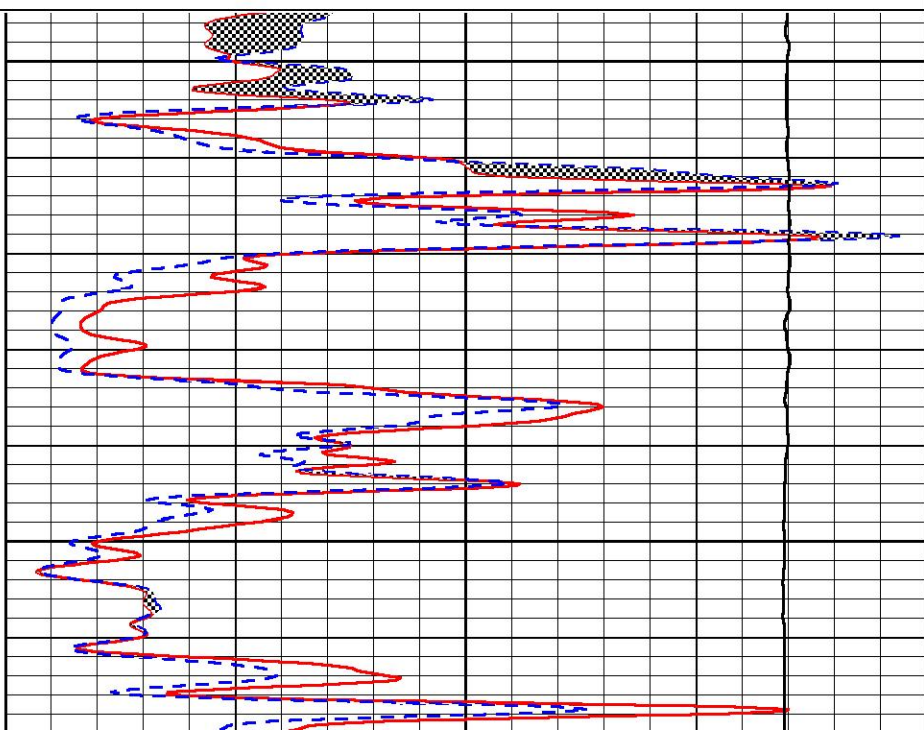
0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

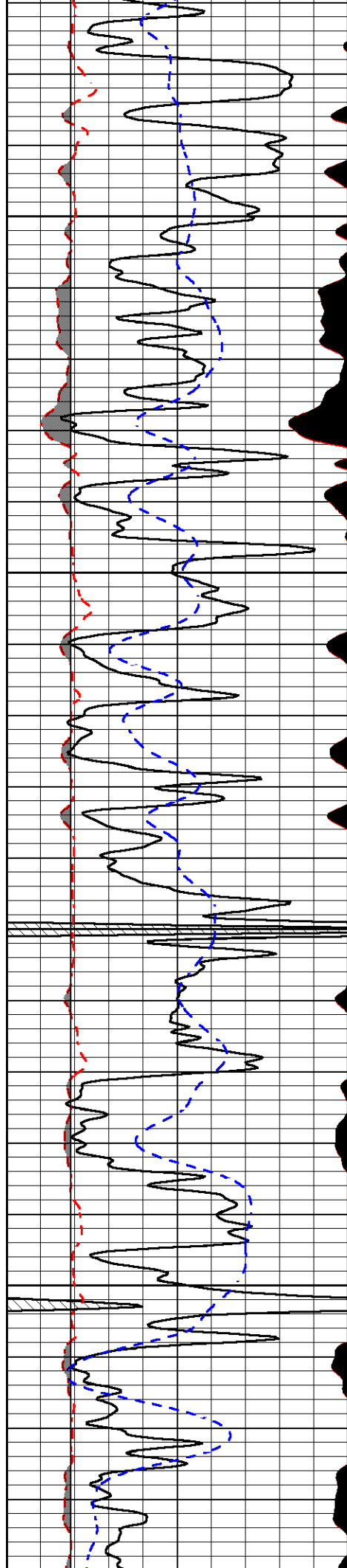
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3000

3050



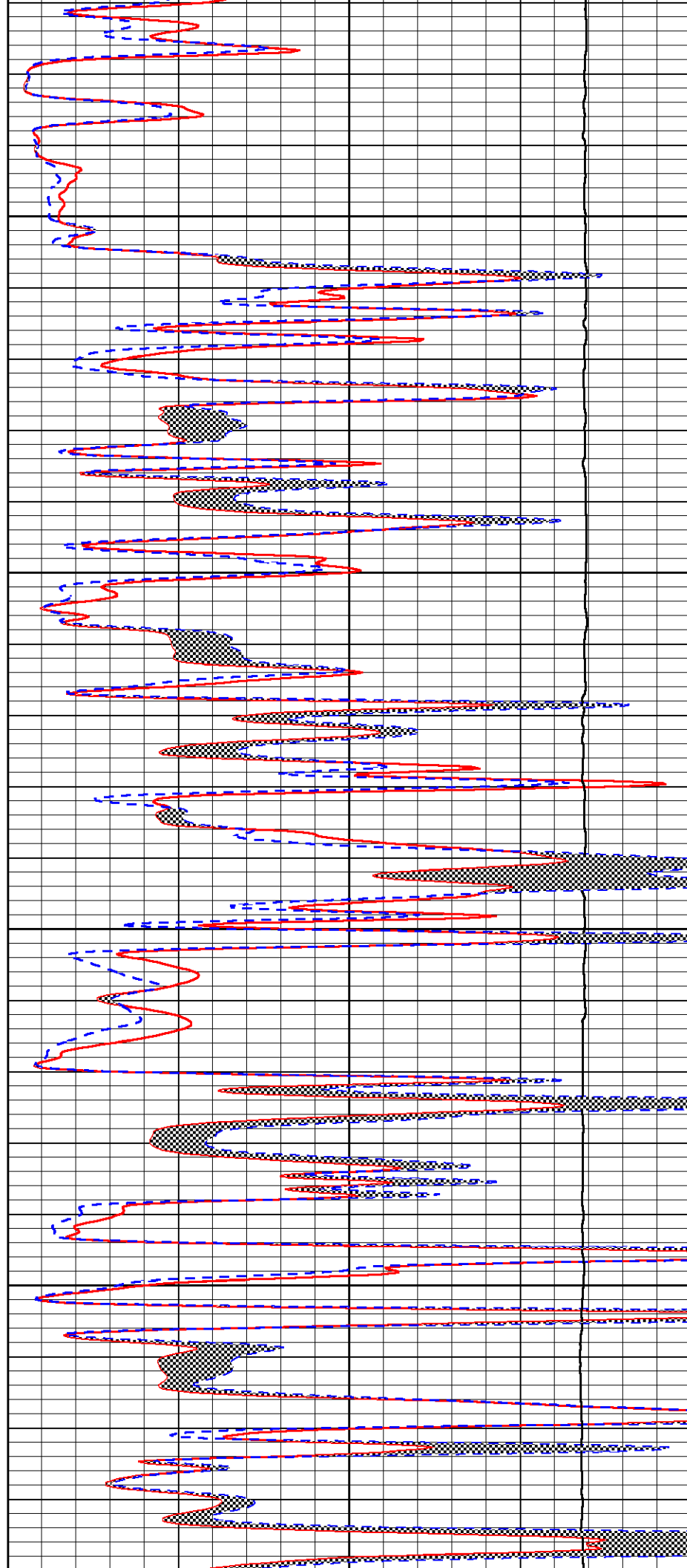


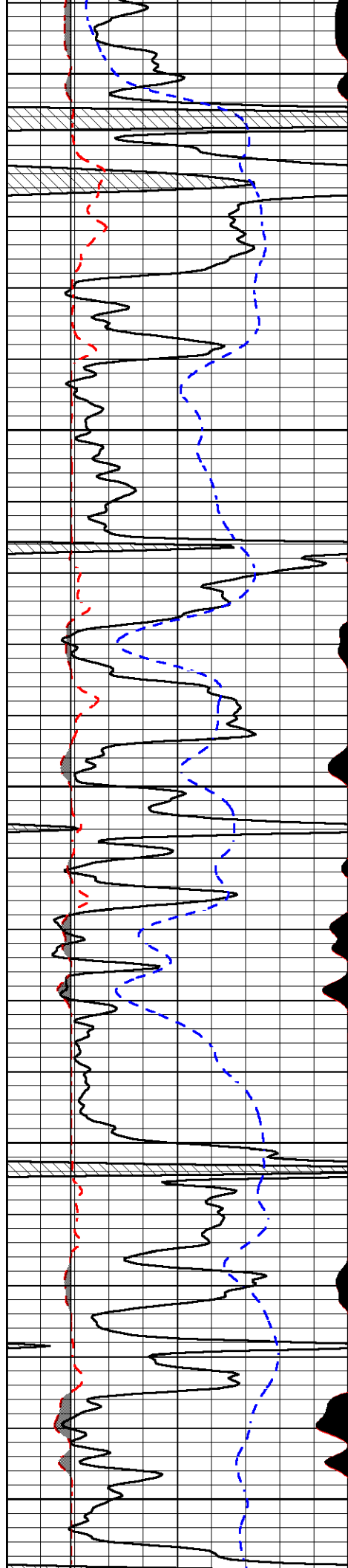
3100

3150

3200

3250





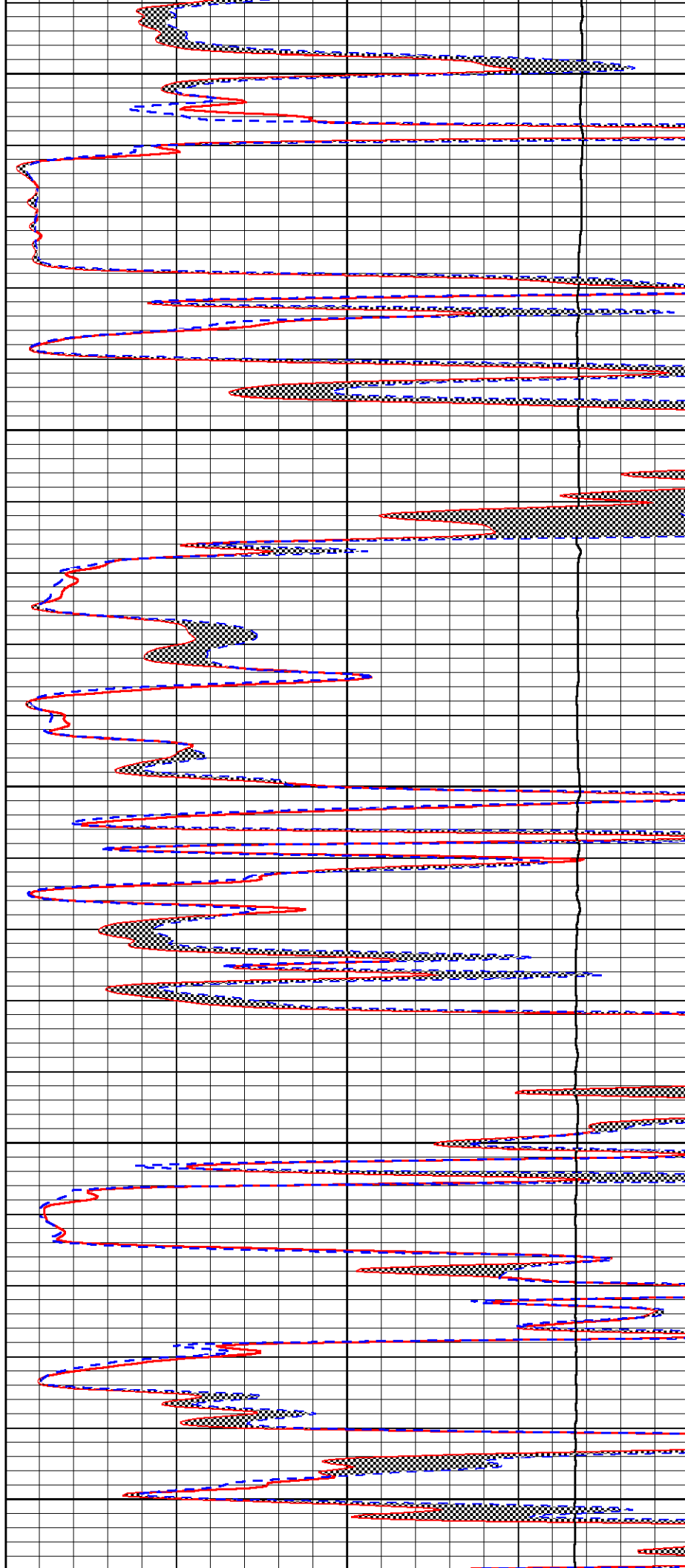
3300

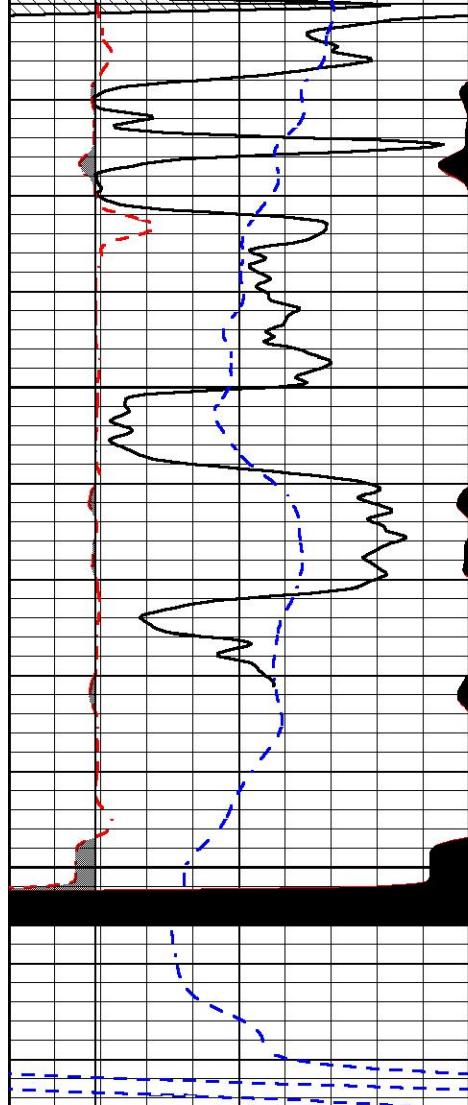
3350

3400

3450

3500

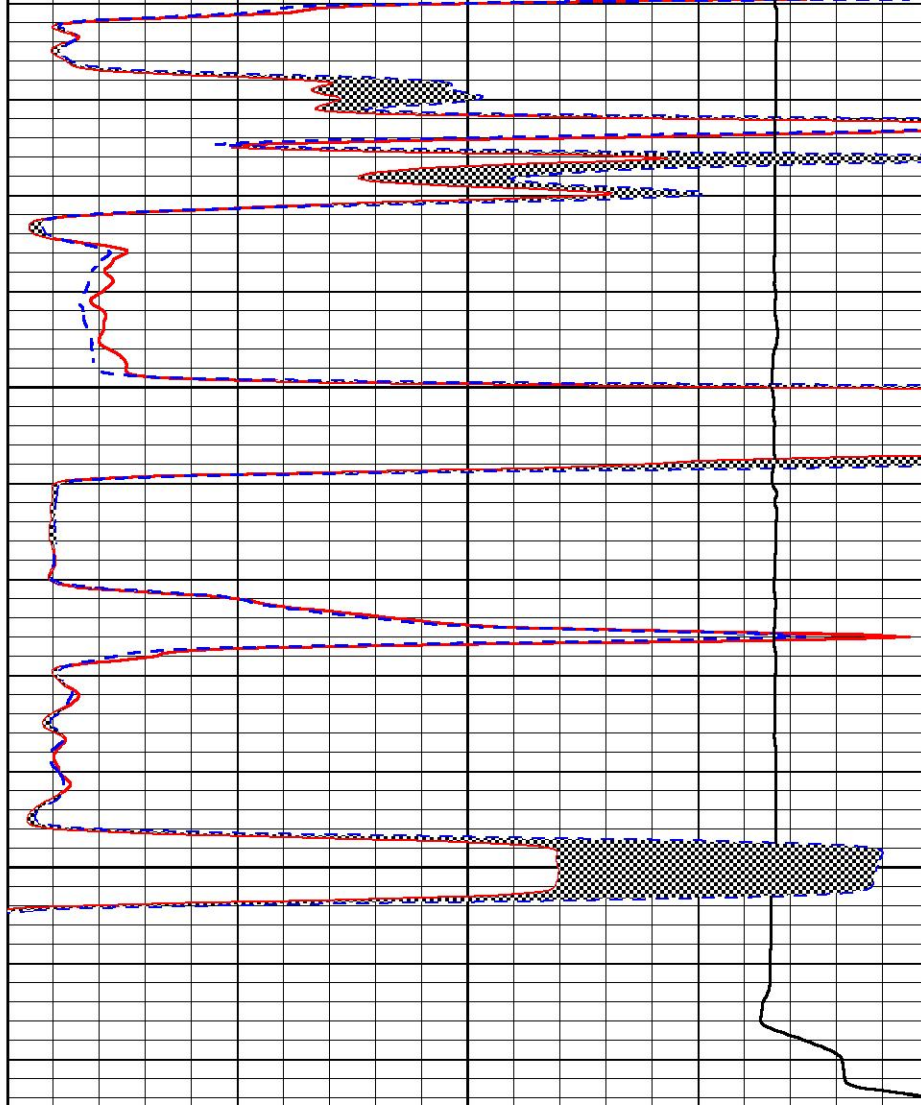




0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

3550

3600



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10000	Line Weight (lb)	0



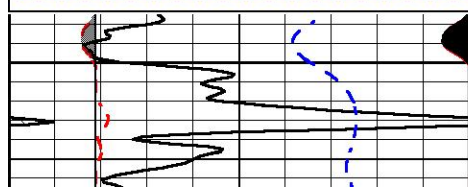
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

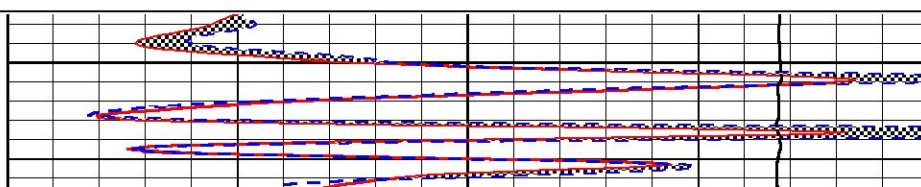
Database File blake exploration llc_roberts #2.db
 Dataset Pathname STKML/pass2.1
 Presentation Format _micro
 Dataset Creation Tue Jul 02 02:55:01 2024
 Charted by Depth in Feet scaled 1:240

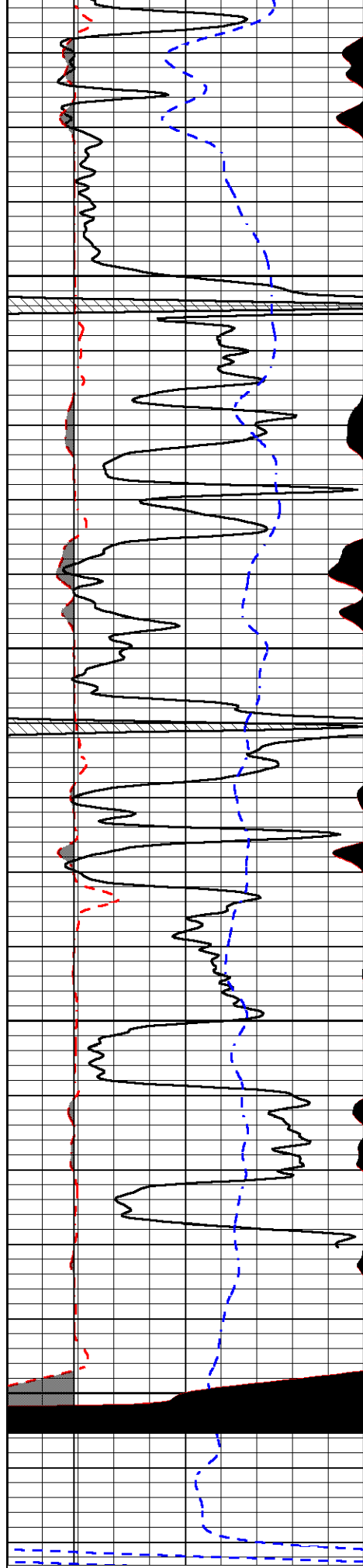
0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0



3400

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





0 Gamma Ray (GAPI) 150

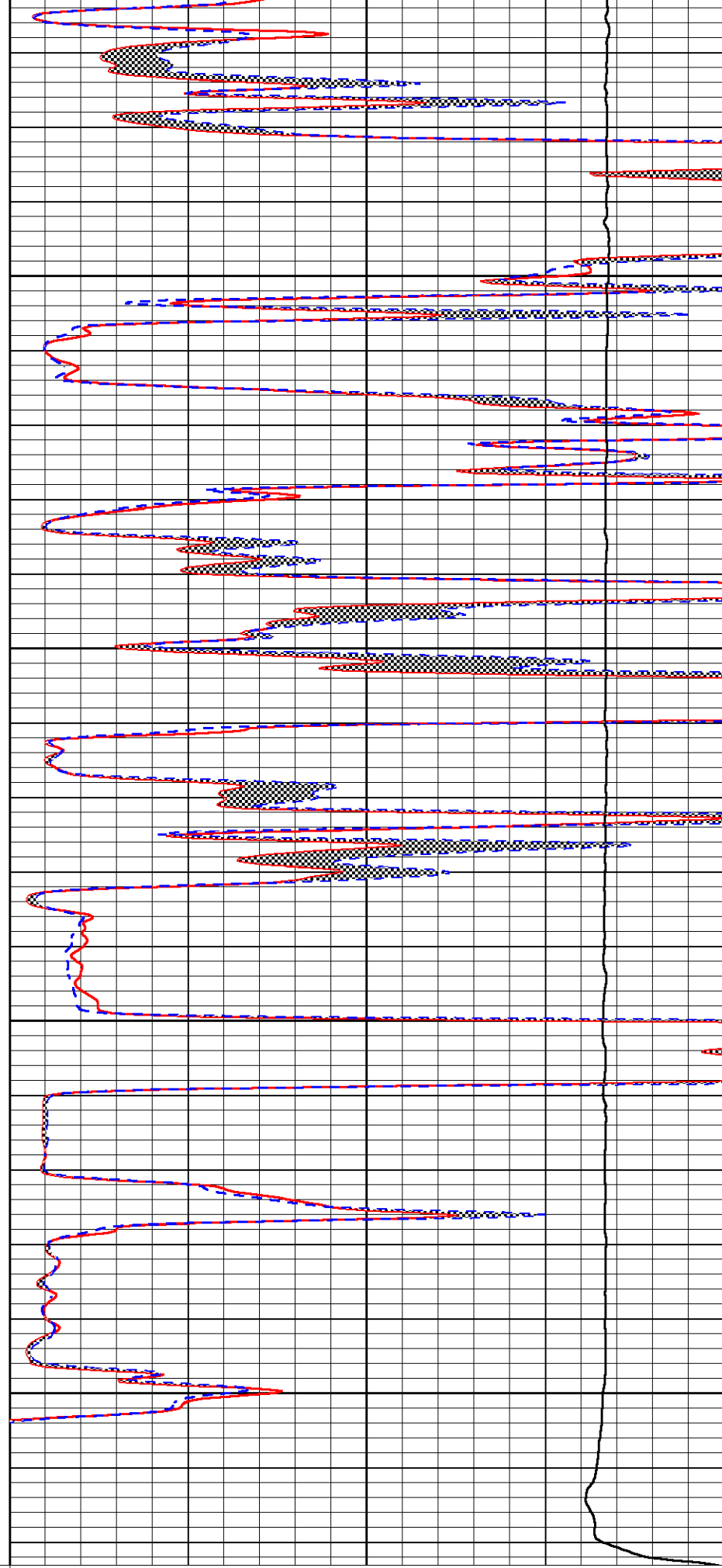
6 Micro Caliper (in) 16

3450

3500

3550

3600



0 Micro Inverse 1 X 1 (Ohm-m) 40

0 Micro Normal 2" (Ohm-m) 40

2.875	mcAl (in)	7.875	10000	Line Weight (lb)	0
-200	SP (mV)	0			

Calibration Report					
Database File	blake exploration llc_roberts #2.db				
Dataset Pathname	STKML/pass3.1				
Dataset Creation	Tue Jul 02 02:46:01 2024				

Dual Induction Calibration Report							
Serial-Model:				507-M&W			
Surface Cal Performed:				Fri Jul 14 14:17:56 2023			
		Readings		References		Results	
Loop:	Air	Loop		Air	Loop	m	b
Deep	68.570	638.100		0.000	255.800	mmho/m	0.500
Medium	184.288	716.191		0.000	255.800	mmho/m	-37.000
							-79.000

Microlog Calibration Report							
Serial-Model: Performed:				401-PSIML Wed Jun 12 18:17:09 2024			
	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	15000.0000	-0.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	22000.0000	-1.5000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-139.1500

Compensated Density Calibration Report							
Serial-Model:				305-24-M&W			
Source #:				20762B			
Master Calibration Performed:				Wed May 15 13:00:44 2024			

Master Calibration							
		Density		Far Detector		Near Detector	
Magnesium	1.680	g/cc		4998.33	5705.34	cps	
Aluminum	2.580	g/cc		1098.93	3899.02	cps	
Spine Angle = 75.89				Density/Spine Ratio = 0.576			
		Size		Reading			
Small Ring	4.00	in		1.74			
Large Ring	14.00	in		1.38			

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

Gamma Ray Calibration Report					
Serial Number:	105				
Tool Model:	M&W				
Performed:	Mon Aug 7 20:46:01 2023				
Calibrator Value:	500.0	GAPI			
Background Reading:	24.0	cps			
Calibrator Reading:	637.0	cps			
Sensitivity:	0.6000	GAPI/cps			

 MIDWEST WIRELINE	Company	Blake Exploration, LLC
	Well	Roberts #2
	Field	LeSage West
	County	Graham
	State	Kansas