



PIONEER

Pioneer Energy Services

MICRORESISTIVITY LOG

Company VAL ENERGY, INC. Well FLYING S NO.1-10 Field LEVANT County THOMAS State KANSAS		Location: API #: 15-193-21041-00-00 475' FNL & 1597' FWL SEC 10 TWP 8S RGE 35W Permanent Datum GROUND LEVEL Elevation 3312' Log Measured From KELLY BUSHING Drilling Measured From KELLY BUSHING Other Services CNL/CDL DIL Elevation K.B. 3317' D.F. N/A G.L. 3312'	
Date	5/9/2019		
Run Number	TWO		
Depth Driller	4870'		
Depth Logger	4872'		
Bottom Logged Interval	4871'		
Top Log Interval	3900'		
Casing Driller	8.875" @ 262'		
Casing Logger	262'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	6,000		
Density / Viscosity	9.3 74		
pH / Fluid Loss	10.5 8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.40 @ 62		
Rmf @ Meas. Temp	0.30 @ 62		
Rmc @ Meas. Temp	0.54 @ 62		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.20 @ 125		
Operating Rig Time	4 HOURS		
Max Rec. Temp. F	125 DEG. F.		
Equipment Number	P-24		
Location	HAYS		
Recorded By	M. HISS	I. MABB	
Witnessed By	TIM PRIEST		

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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.

LEVANT EXIT I-70
NORTH TO R ROAD, 3/4 WEST,
SOUTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: M. HISS
Operator: I. MABB
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: TIM PRIEST
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 125	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 5	mmho/m 5	mV 360	degF 50	Off	ft 4872

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (233-M&W)	3.00	3.50	50.00
CNLSC	37.48			CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	36.73						
LSD	28.43			CDL-M&W (96-916)	8.50	4.00	250.00
	28.42						
	27.93						
DCAL	28.42			ML-PSIML (PSI-01)	7.58	4.00	65.00
SSD	27.93			GO Micro log tools converted to Simplec electronics			
MCAL	19.83						
MI	19.83						
MN	19.83						
RLL3F	15.80						
RLL3	15.80						
CILD	8.00			DIL-PSI HIGH TEMP (967 (HT))	18.50	3.50	220.00

CILM

4.70

SP

0.20

Dataset: val_flyings_#1_10.db: field/well/STACKMEL/pass3.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

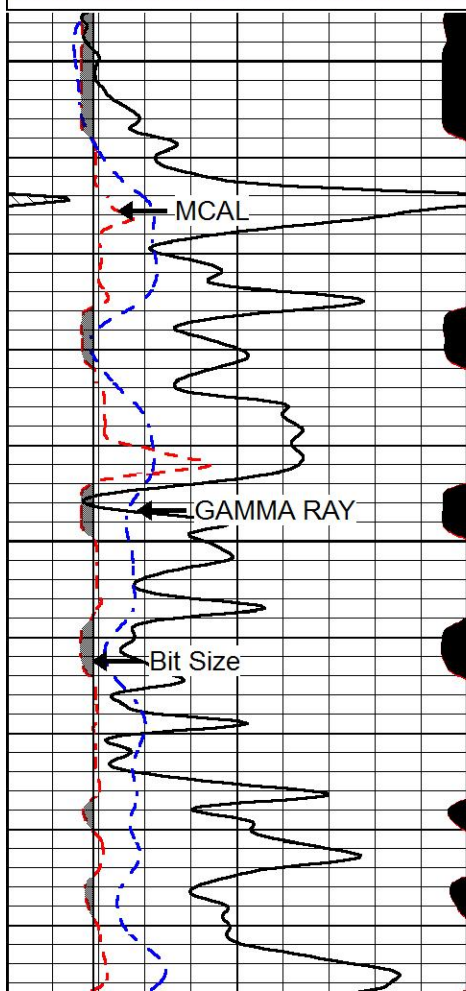


MAIN PASS

Database File val_flyings_#1_10.db
 Dataset Pathname STACKMEL/pass3.1
 Presentation Format _micro
 Dataset Creation Thu May 09 23:06:49 2019
 Charted by Depth in Feet scaled 1:240

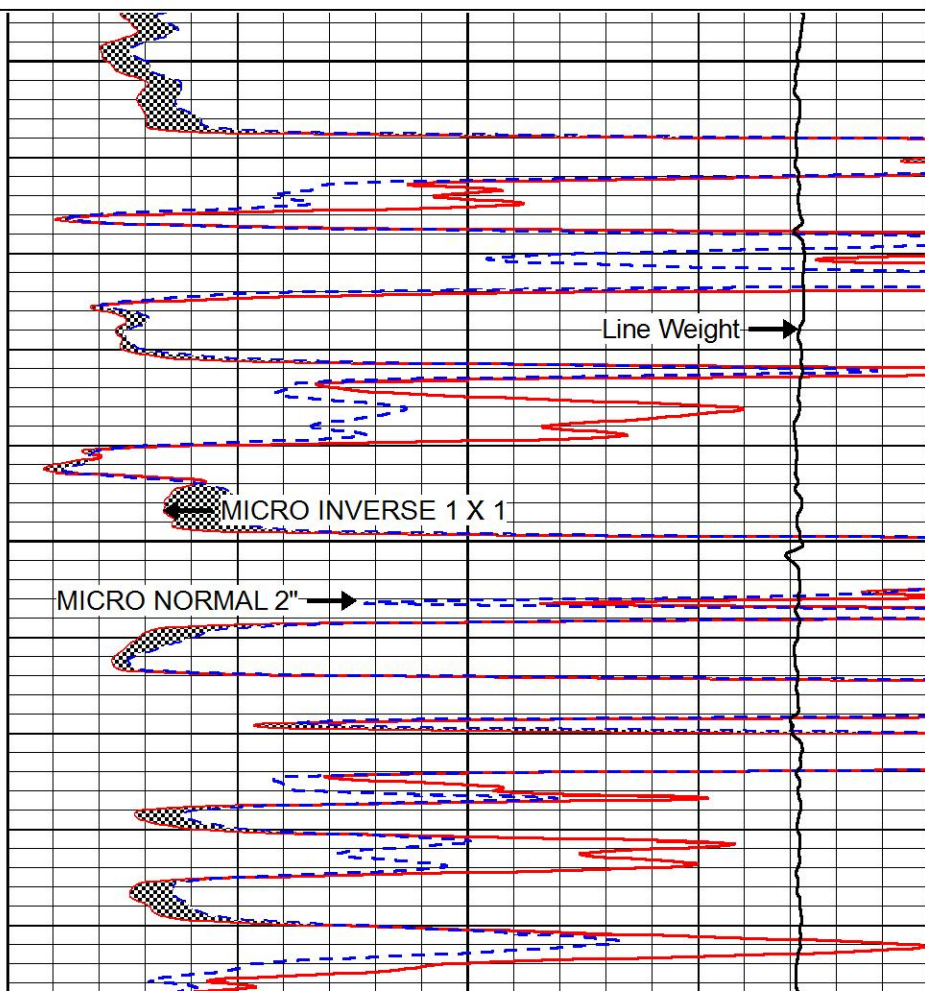
0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcAl (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

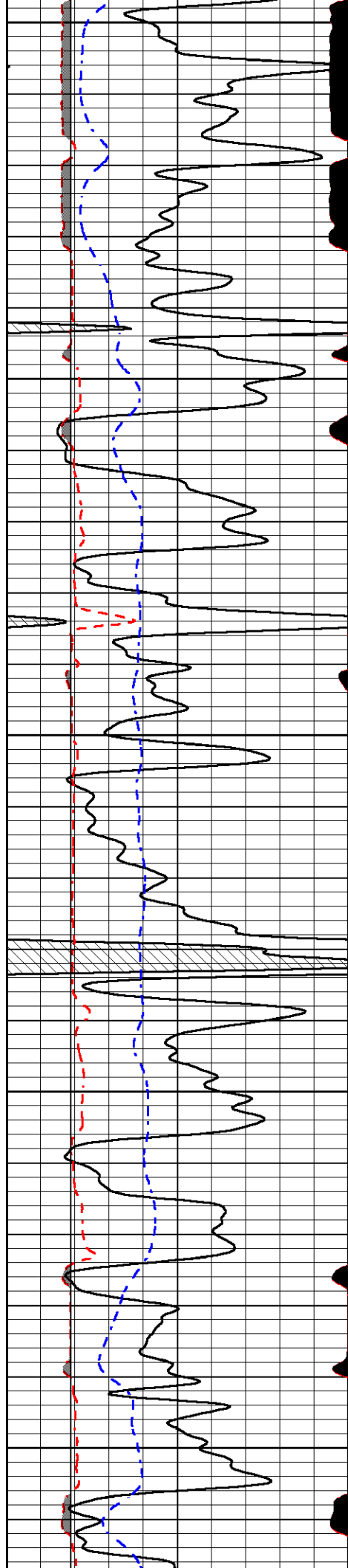
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3900

3950





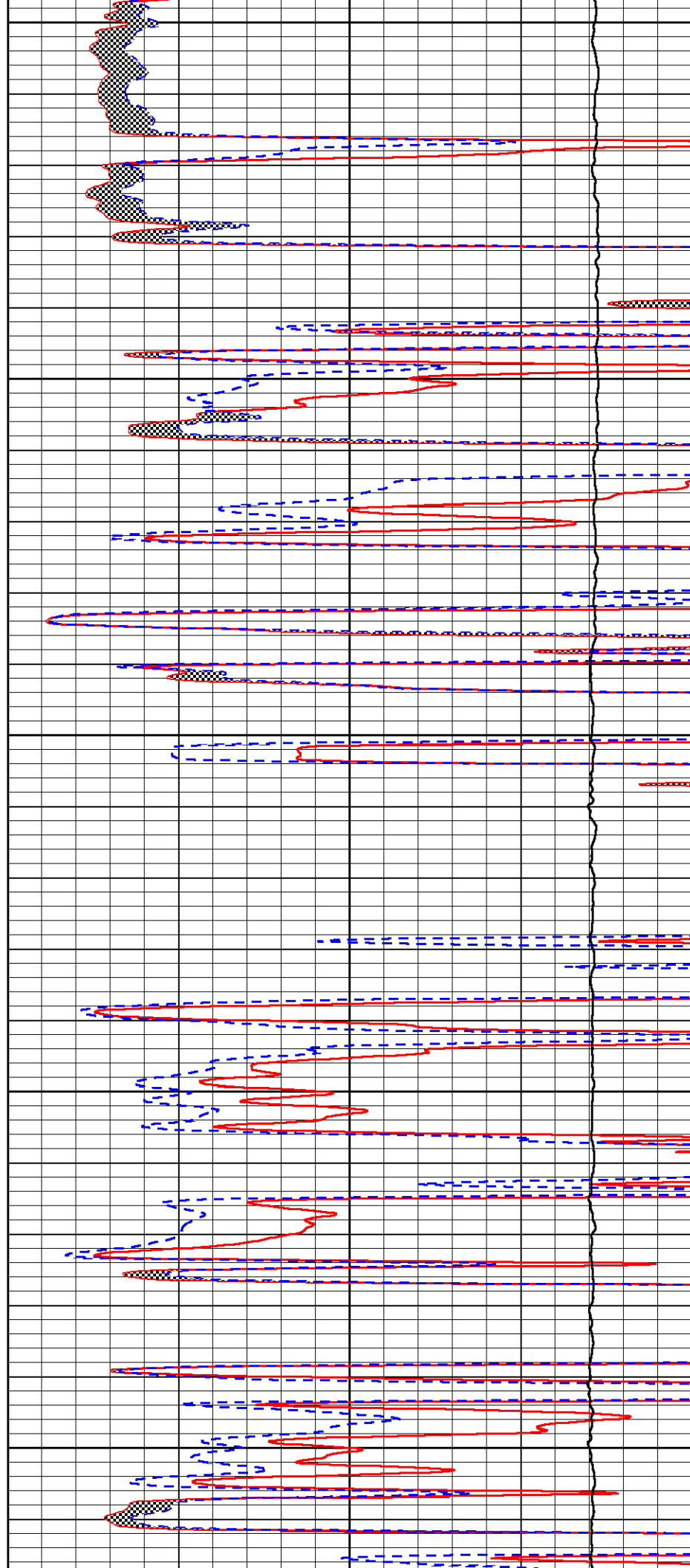
4000

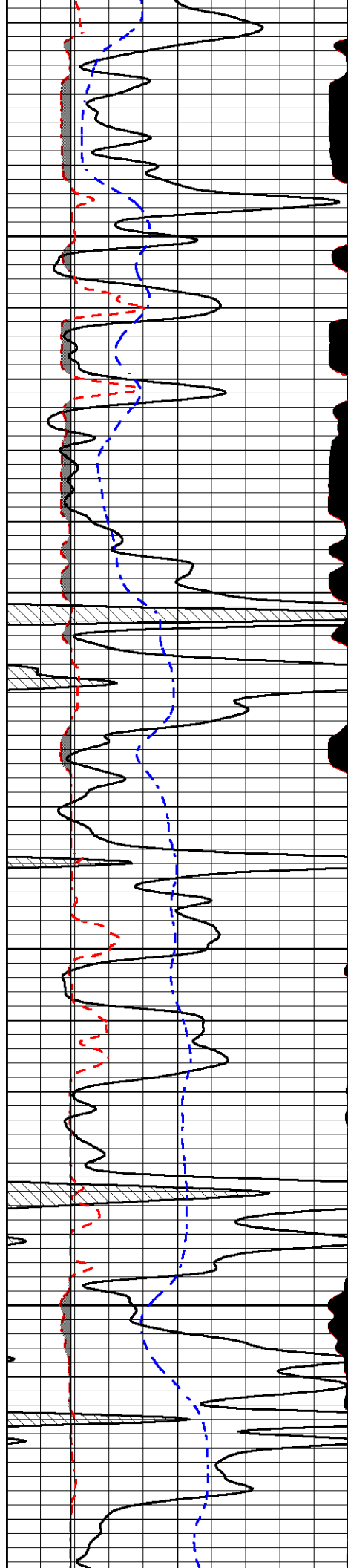
4050

4100

4150

4200



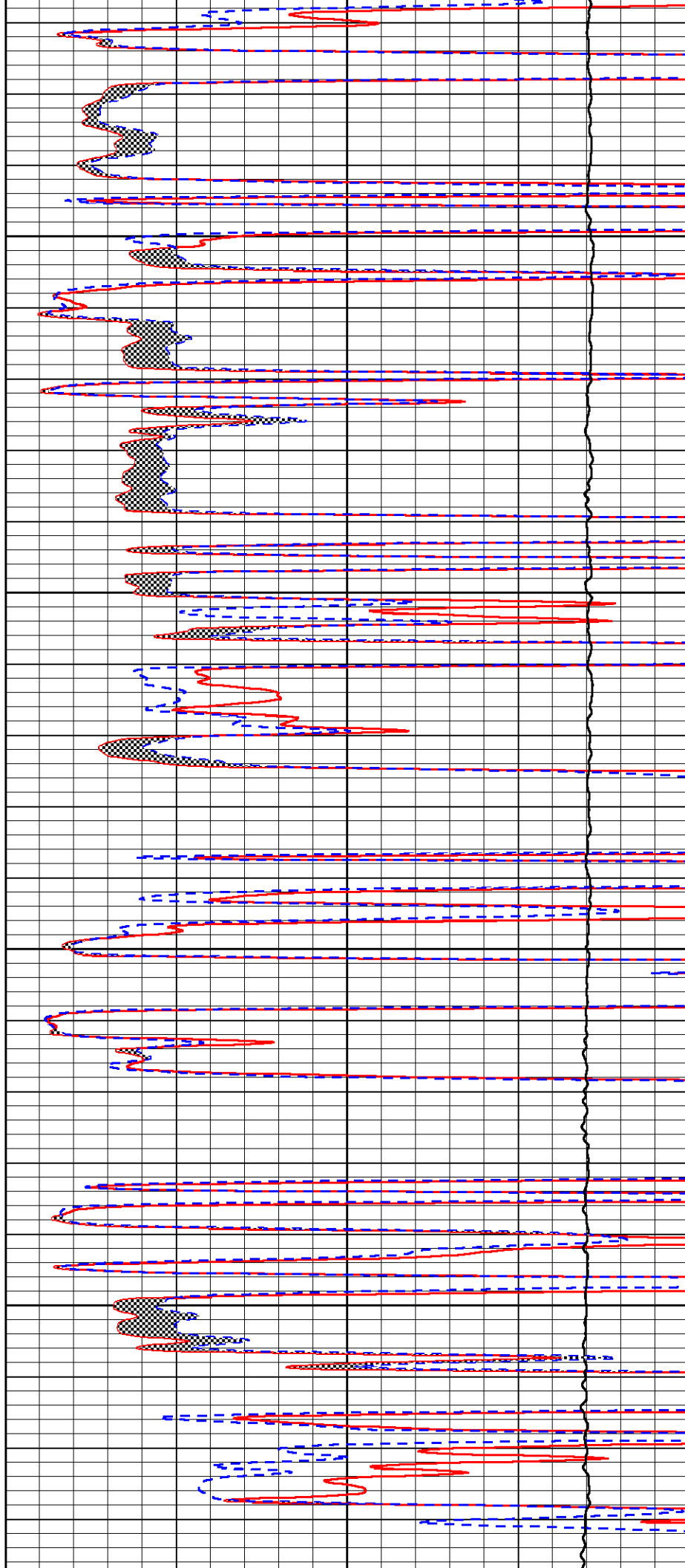


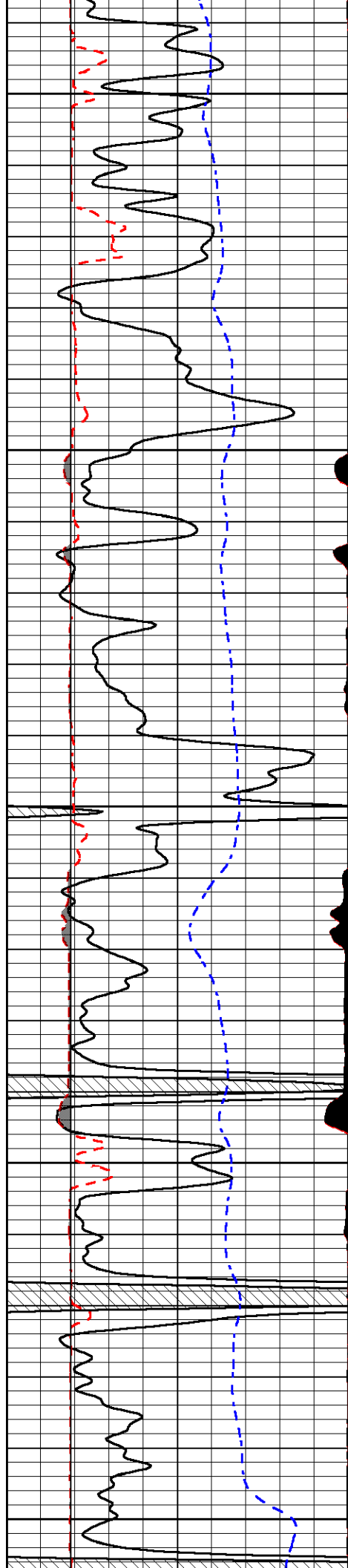
4250

4300

4350

4400





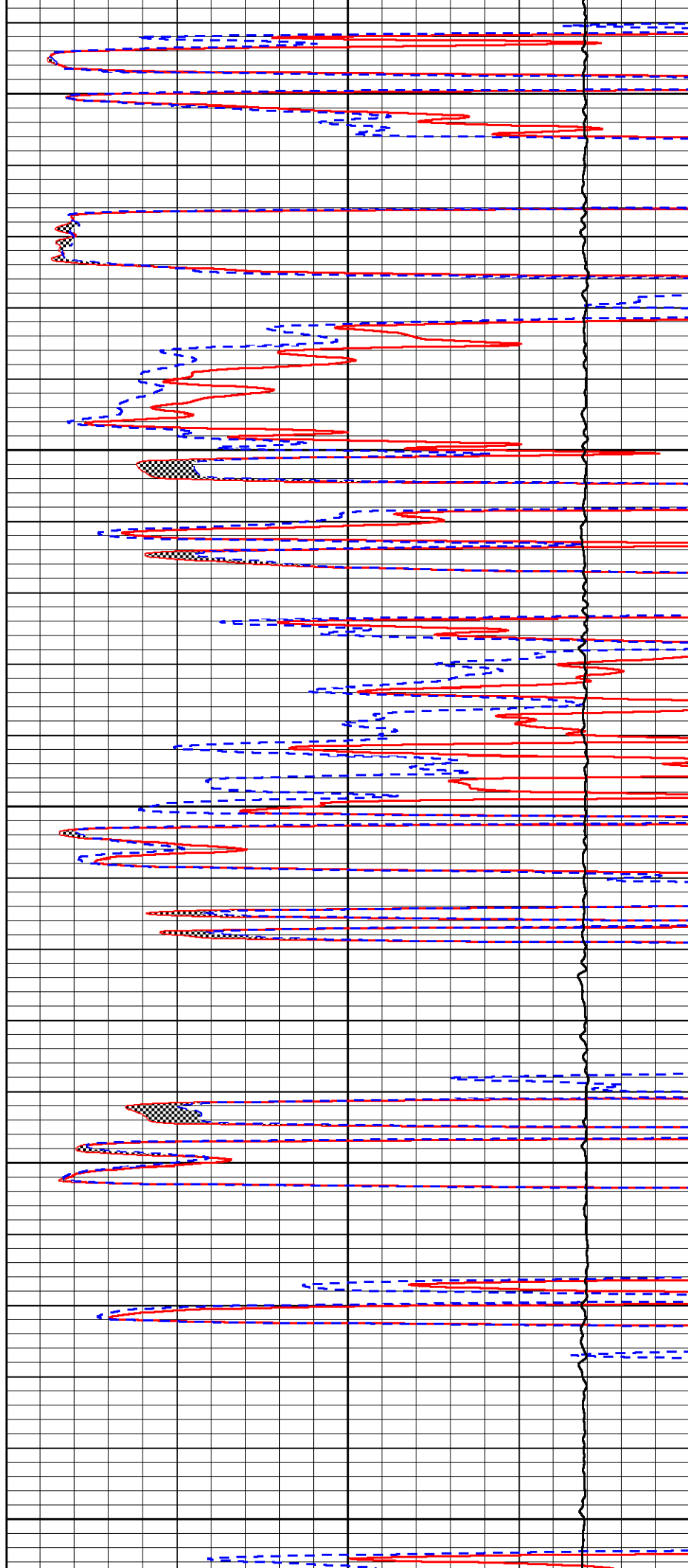
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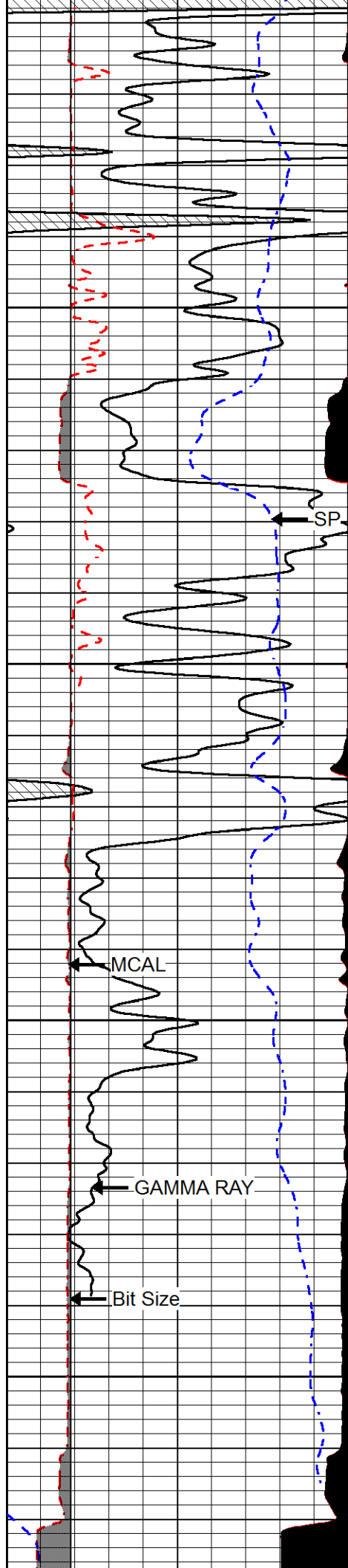
4500

4550

4600

4650





4700

4750

4800

4850

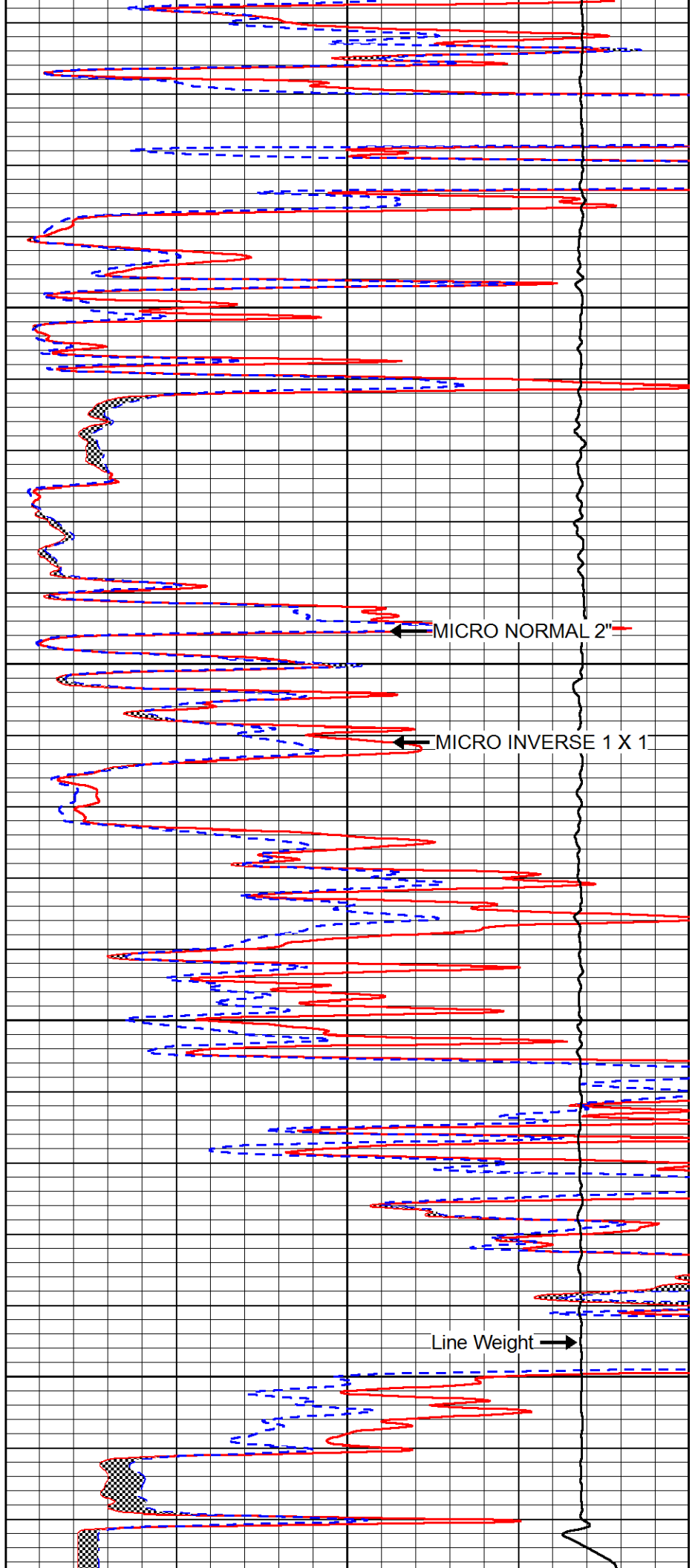
SP

MCAL

GAMMA RAY

Bit Size

mcal



MICRO NORMAL 2"

MICRO INVERSE 1 X 1

Line Weight

0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
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-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

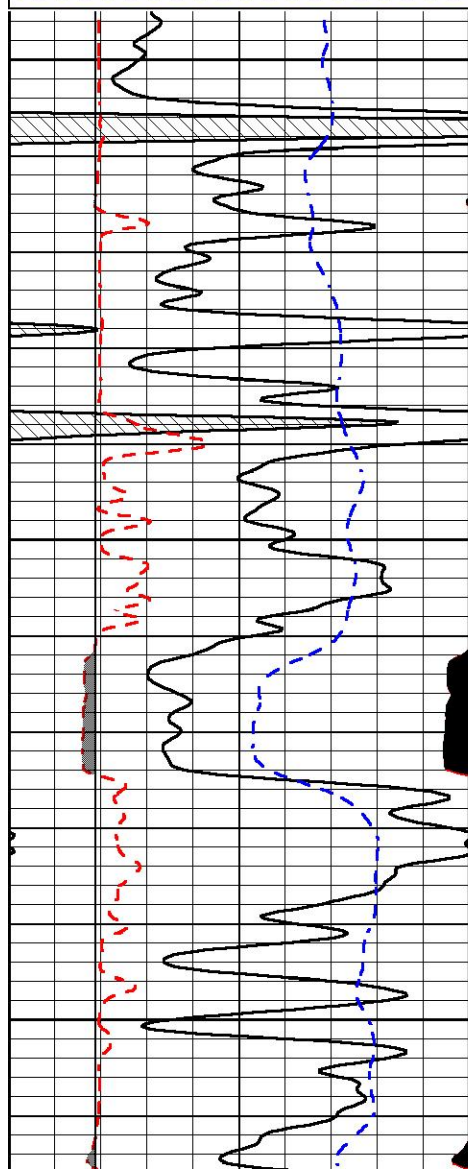


REPEAT SECTION

Database File val_flyings_#1_10.db
Dataset Pathname STACKMEL/pass2.1
Presentation Format _micro
Dataset Creation Thu May 09 23:19:28 2019
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcals (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

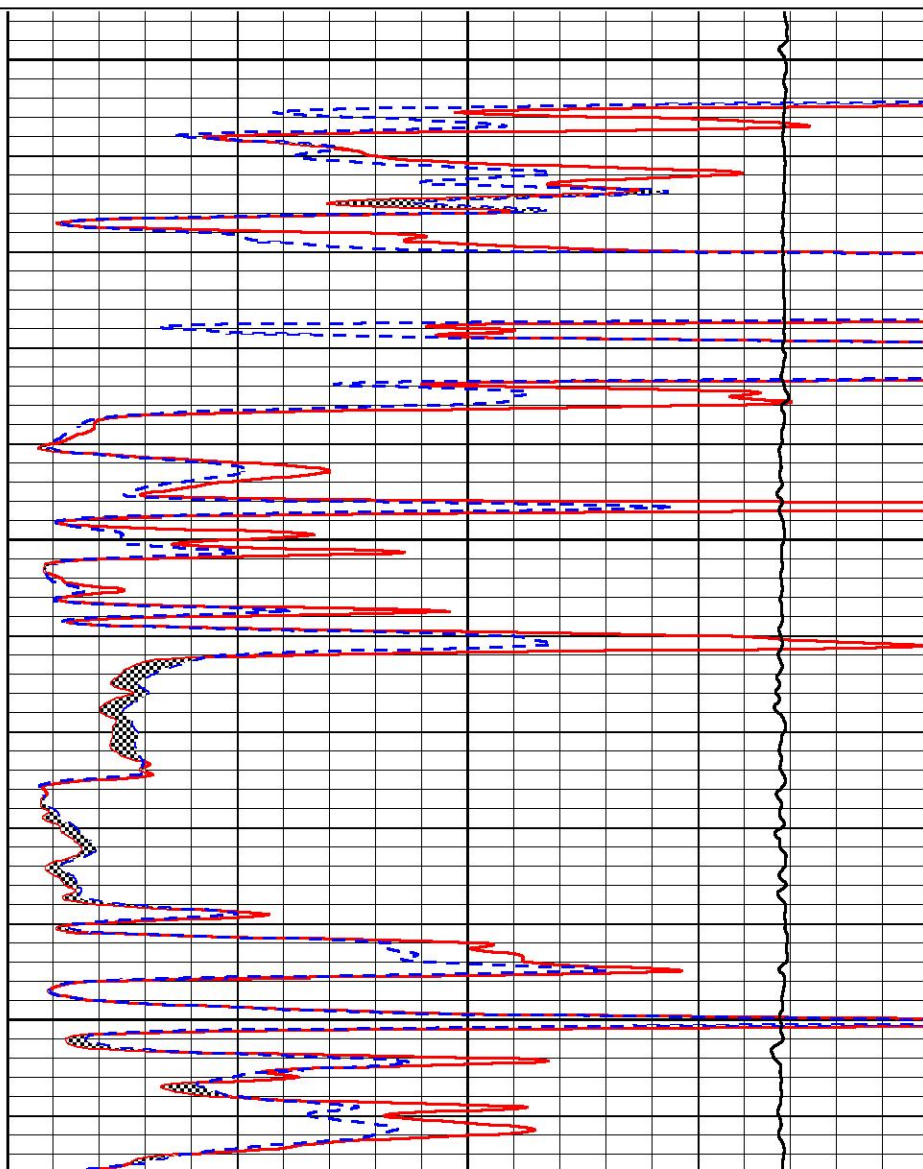
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0

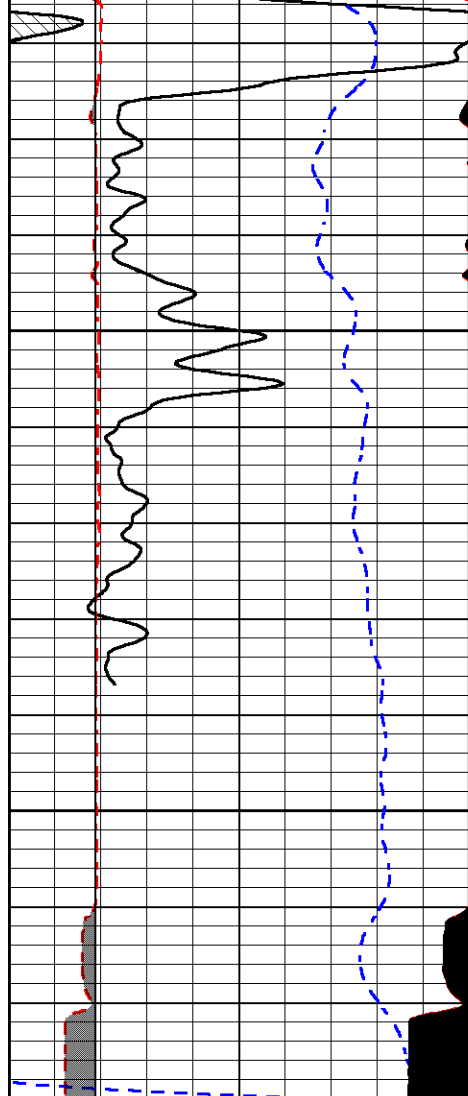


4650

4700

4750

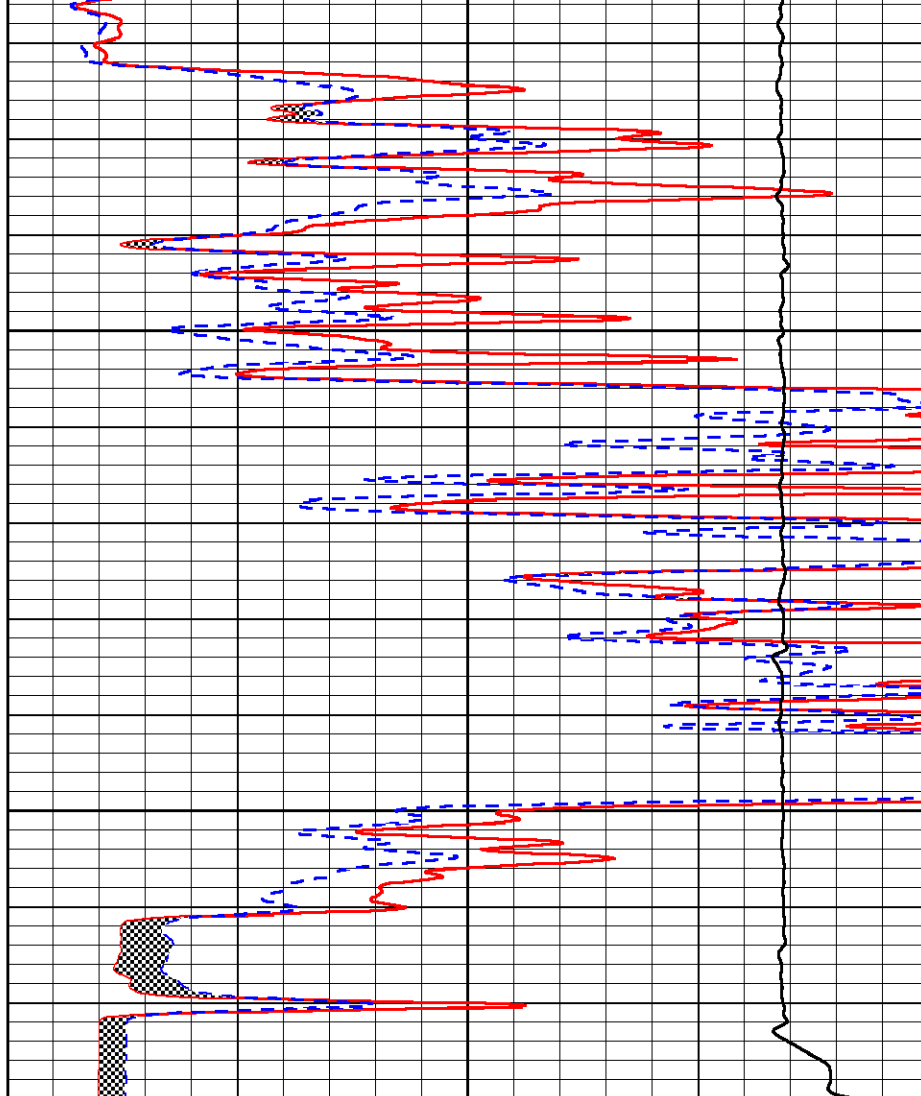




4800

4850

0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
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
10000	Line Weight (lb)	0

Calibration Report

Database File val_flyings_#1_10.db
Dataset Pathname STACKMEL/pass3.20
Dataset Creation Thu May 09 22:36:22 2019

Dual Induction Calibration Report

Serial-Model: 967 (HT)-PSI HIGH TEMP
Calibration Performed: Fri Apr 12 09:37:07 2019

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.800	mmho/m	0.565	-17.500
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.390	-40.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
Performed: Sun Feb 24 09:53:40 2019

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	66000.0000	-0.7000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	123000.0000	5.0000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.7000

Compensated Density Calibration Report

Serial-Model: 96-916-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Wed Mar 27 11:00:53 2019

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.755	g/cc		8943.64	10054.60	cps
Aluminum	2.655	g/cc		1595.61	6242.82	cps
Spine Angle = 74.54			Density/Spine Ratio = 0.503			
	Size			Reading		
Small Ring	6.00	in		1.75		
Large Ring	16.00	in		1.46		

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: WED FEB 13 10:30:30 2019

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: 233-M&W
Tool Model: M&W
Calibration Performed: Fri Feb 07 01:42:40 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5500 GAPI/cps



Company VAL ENERGY, INC.
Well FLYING S NO.1-10
Field LEVANT
County THOMAS
State KANSAS

