



PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

CompanyRJM COMPANY		Company	RJM COMPANY
Well	ELVITA #1	Well	ELVITA #1
Field	UNKNOWN	Field	UNKNOWN
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:		API # : 15-009-26281-00-00	Other Services
Permanent Datum		GROUND LEVEL	Elevation 1849'
Log Measured From		KELLY BUSHING	K.B. 1858'
Drilling Measured From		KELLY BUSHING	D.F. N/A
			G.L. 1849'
Date	11/10/2019		
Run Number	TWO		
Depth Driller	3430'		
Depth Logger	3432'		
Bottom Logged Interval	3431'		
Top Log Interval	2700'		
Casing Driller	8.625" @ 347'		
Casing Logger	346'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity ,ppm CL	10,000		
Density / Viscosity	9.1 45		
pH / Fluid Loss	10.0 8.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.30 @ 67		
Rmt @ Meas. Temp	.26 @ 67		
Rmc @ Meas. Temp	.47 @ 67		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.21 @ 110		
Operating Rig Time	2 HOURS		
Max Rec. Temp. F	110 DEGF		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. HENRICKSON		
Witnessed By	WYATT URBAN		

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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.

CLAFLIN KANSAS

3 WEST TO 100 RD, 2 NORTH, 1/8 EAST, NORTH INTO

Log Measured From: KELLY BUSHING

9 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

www.pioneerres.com

785-625-3858

Your Pioneer Energy Services Crew

This Log Record Was Witnessed By

Engineer: J. HENRICKSON

Operator:

Operator:

Operator:

Primary Witness: WYATT URBAN

Secondary Witness:

Secondary Witness:

Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 100	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 305	degF 0	Off	ft 0

Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
MCAL	1.00		ML-Armadillo (Armadillo-1) Pengo micro log tool mandrel with Armadillo Electronics	5.00	3.50	100.00
MI	1.00					
MN	1.00					

Dataset:

rjm_elvita_1.db: field/well/MEL/pass2

Total length:

5.00 ft

Total weight:

100.00 lb

O.D.:

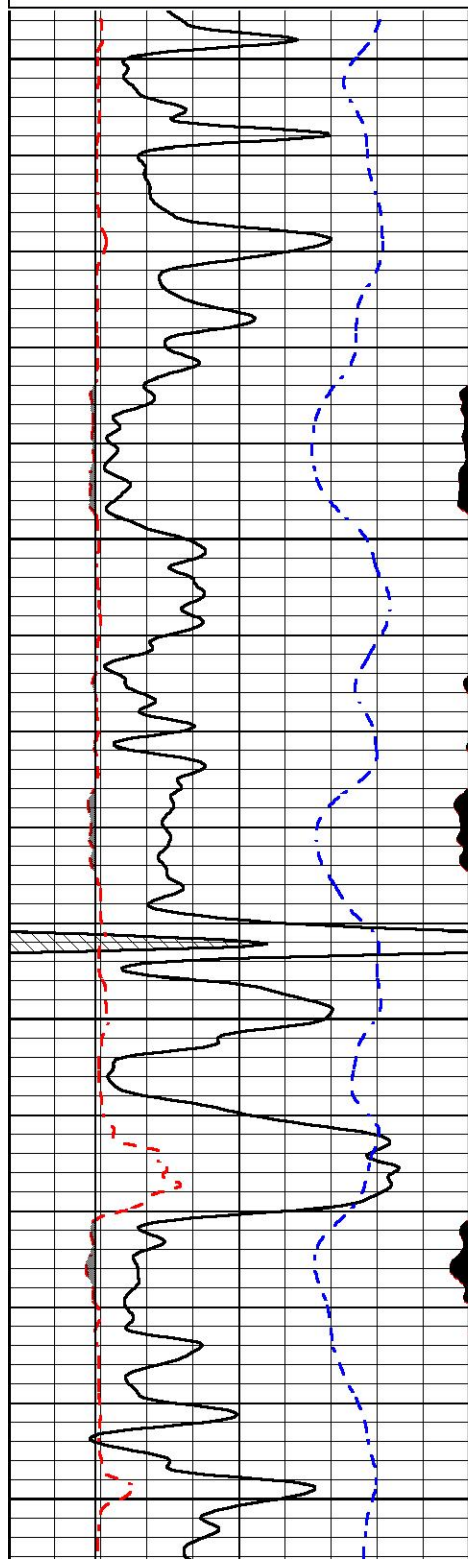
3.50 in

MAIN PASS

Database File rjm_elvita_1.db
 Dataset Pathname stackml/pass3.1
 Presentation Format micro
 Dataset Creation Mon Nov 11 00:20:45 2019
 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

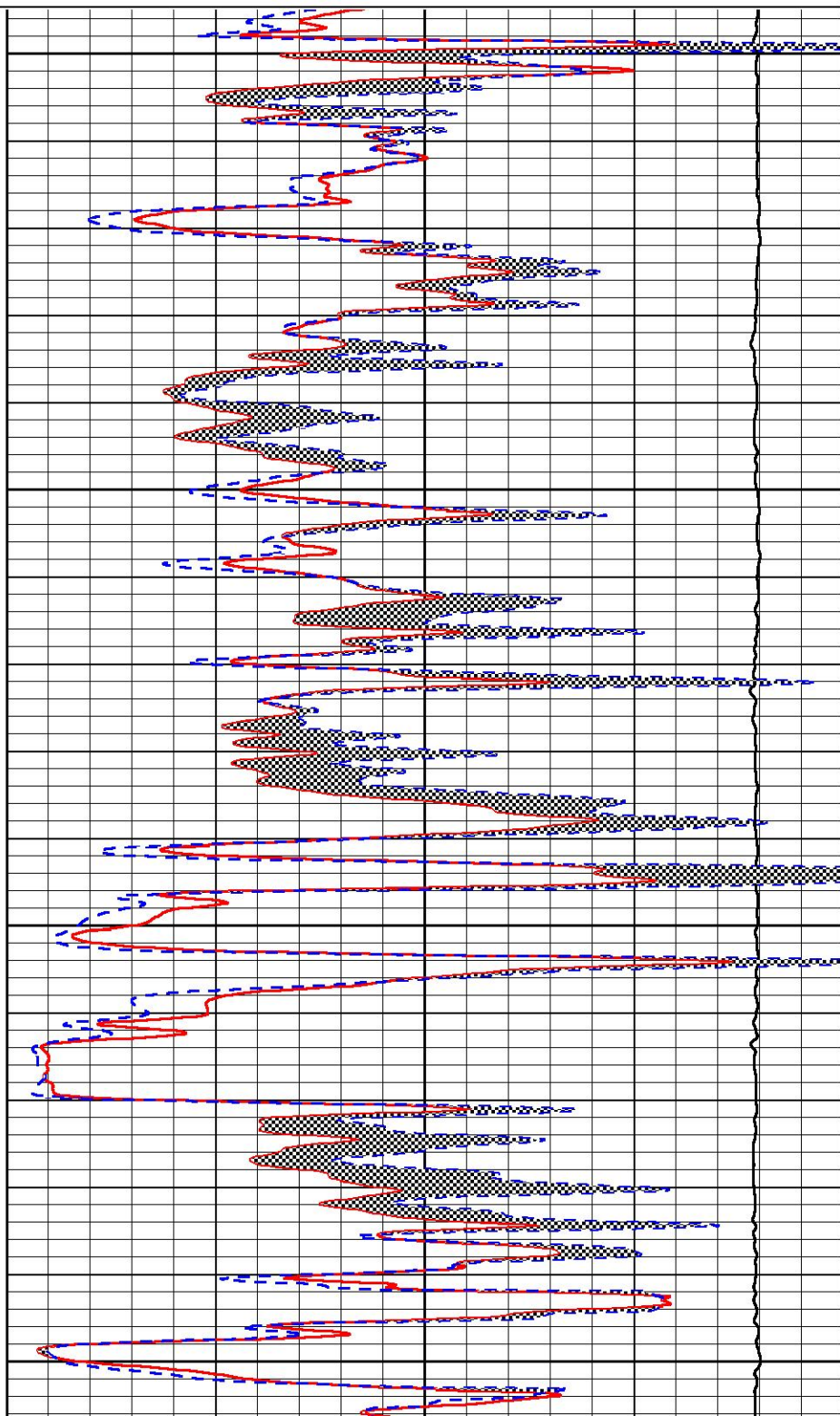


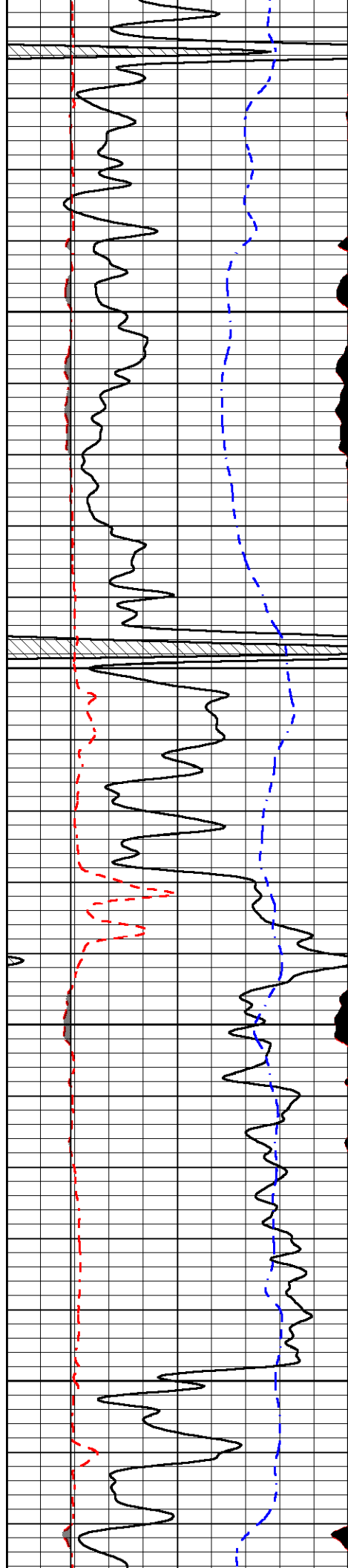
2700

2750

2800

2850



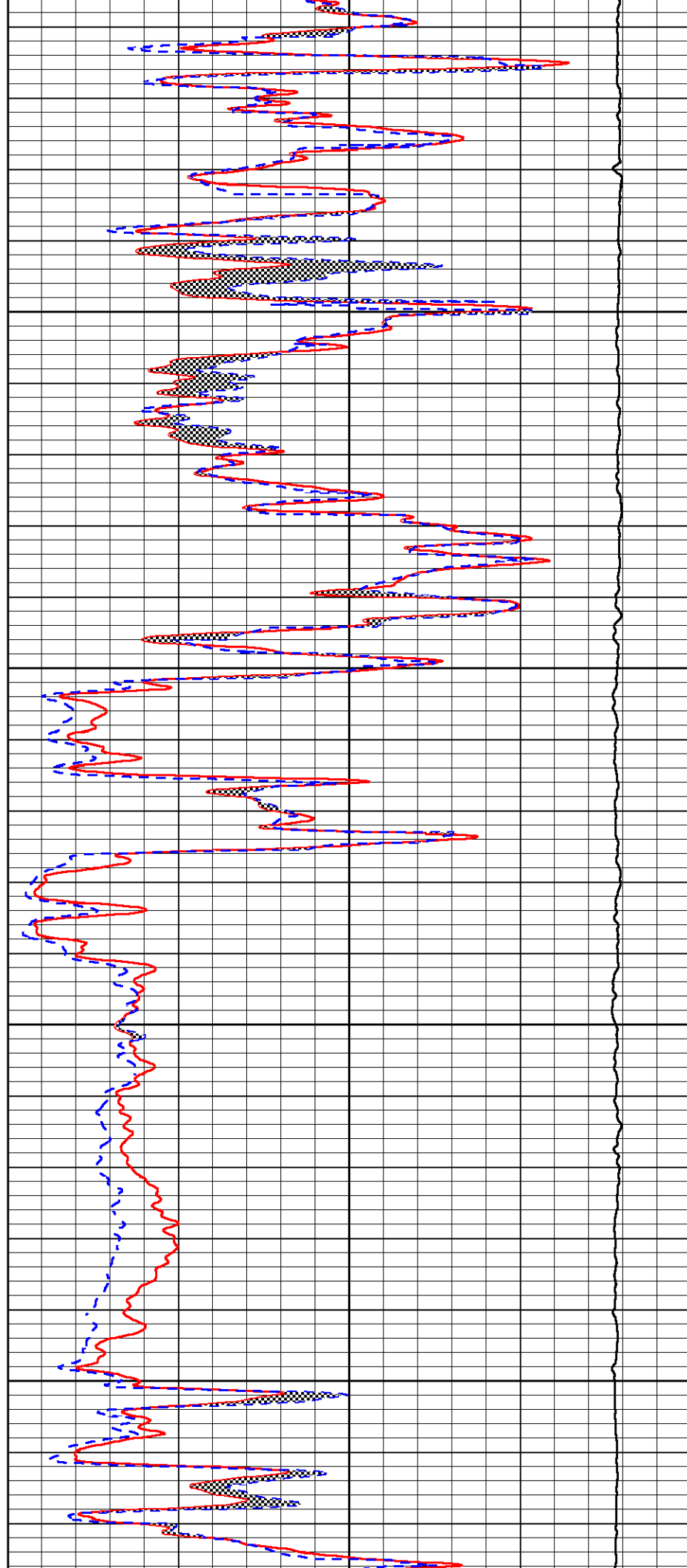


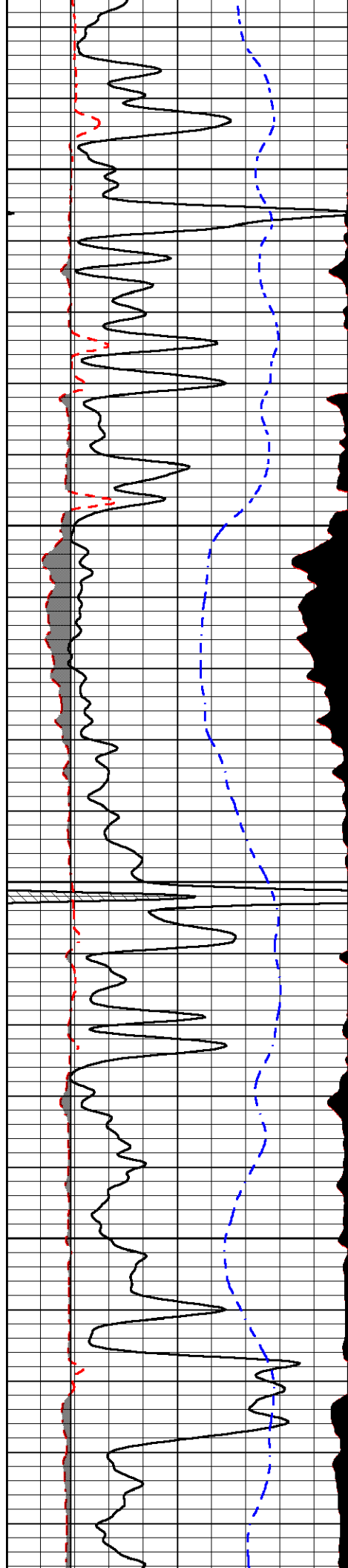
2900

2950

3000

3050



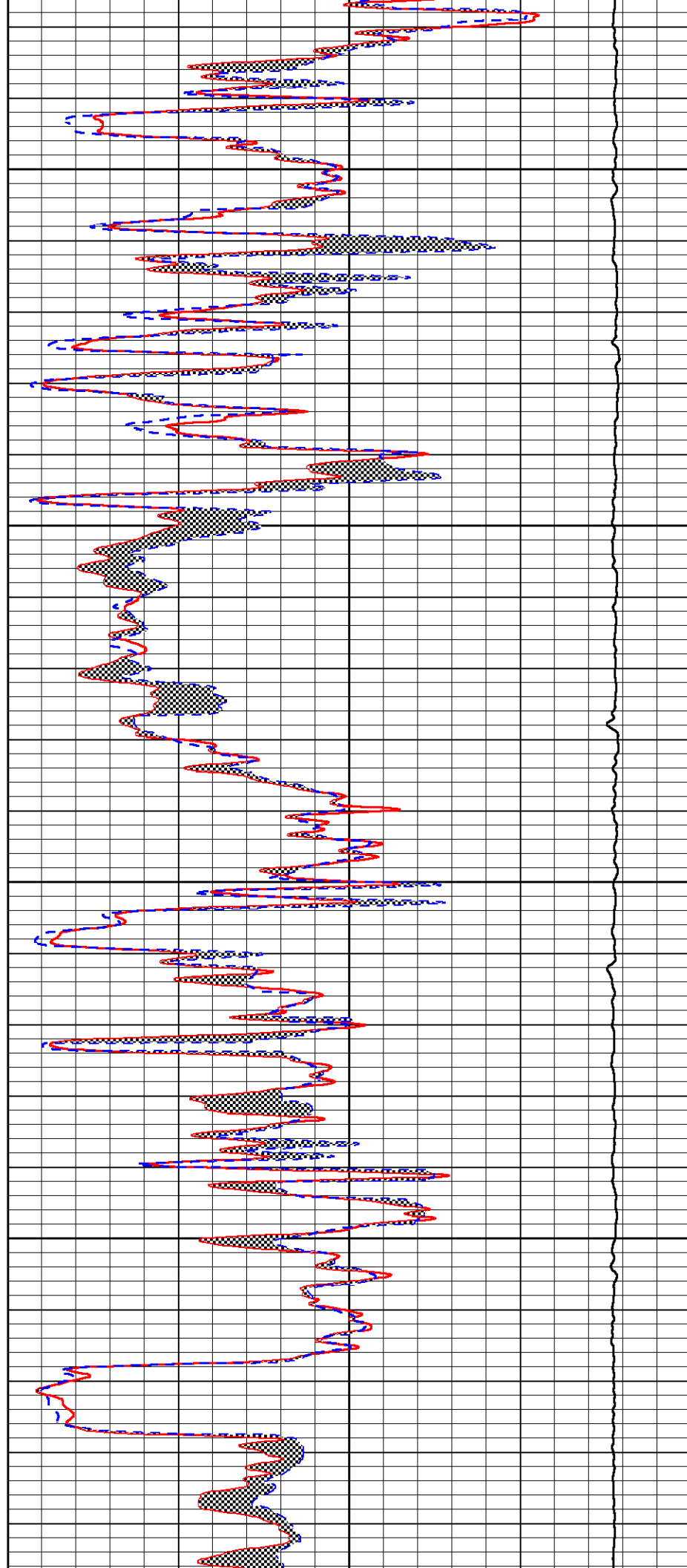


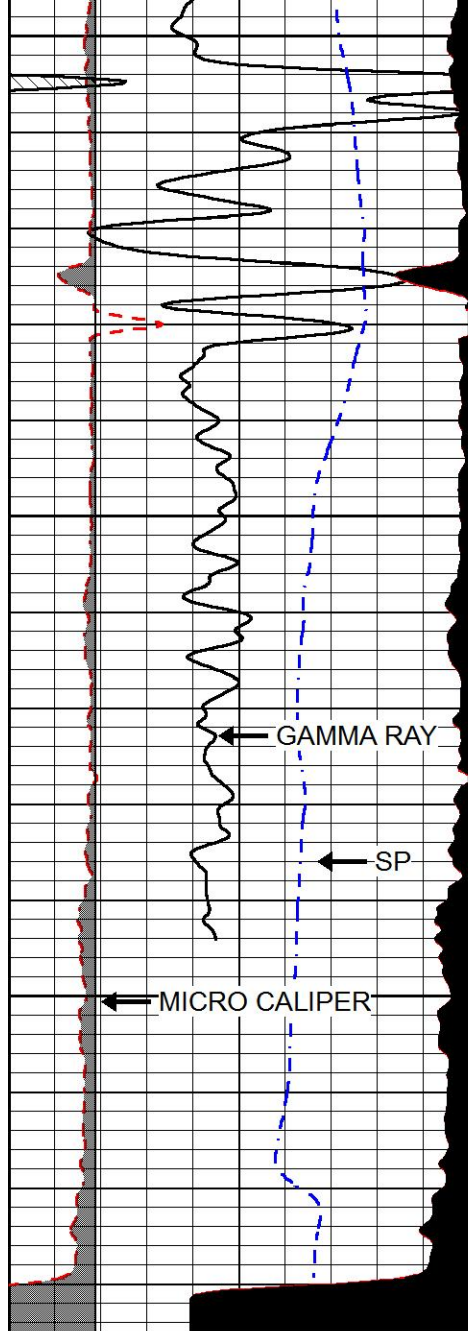
3100

3150

3200

3250





3300

3350

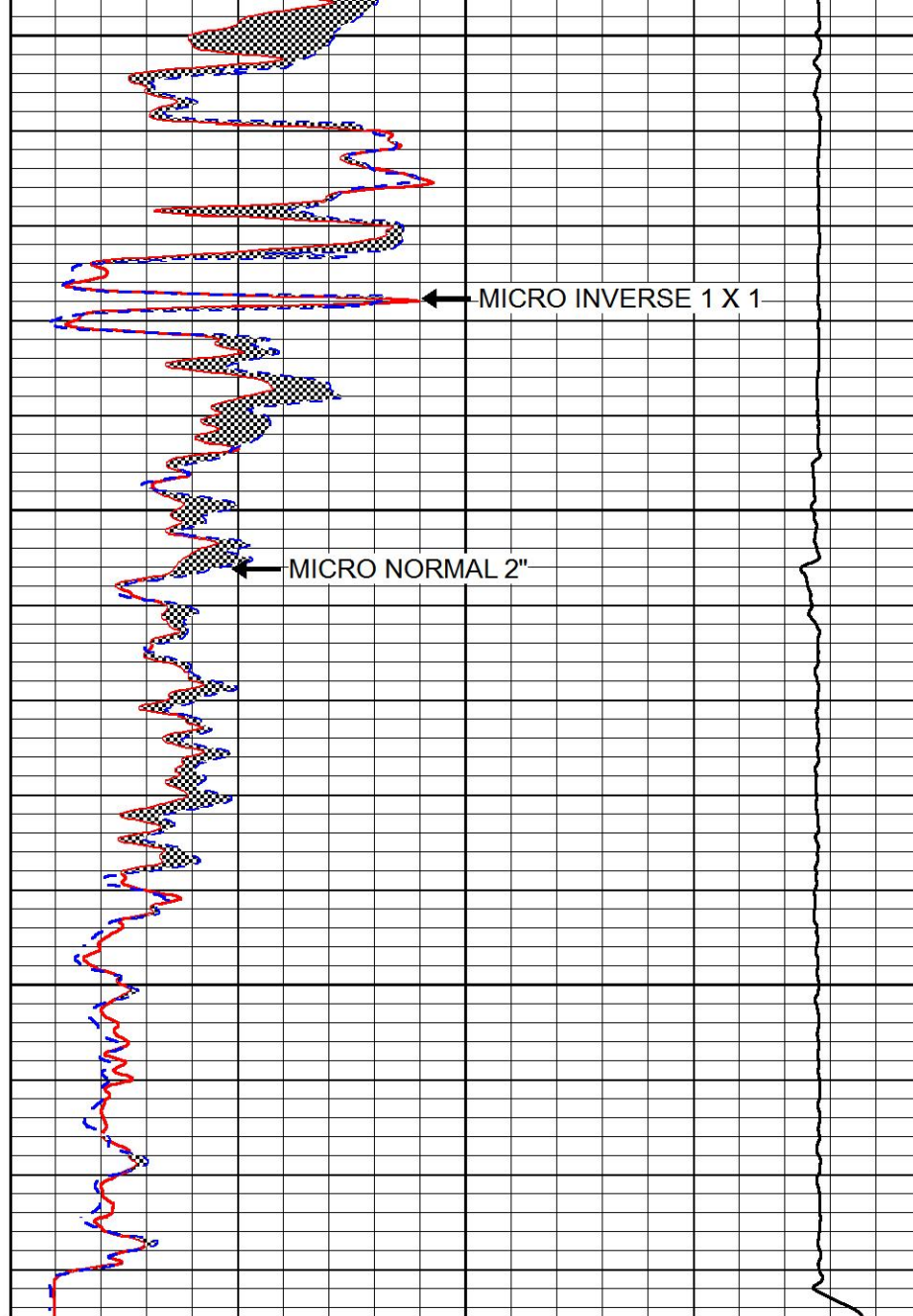
3400

GAMMA RAY

SP

MICRO CALIPER

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



MICRO INVERSE 1 X 1

MICRO NORMAL 2"

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

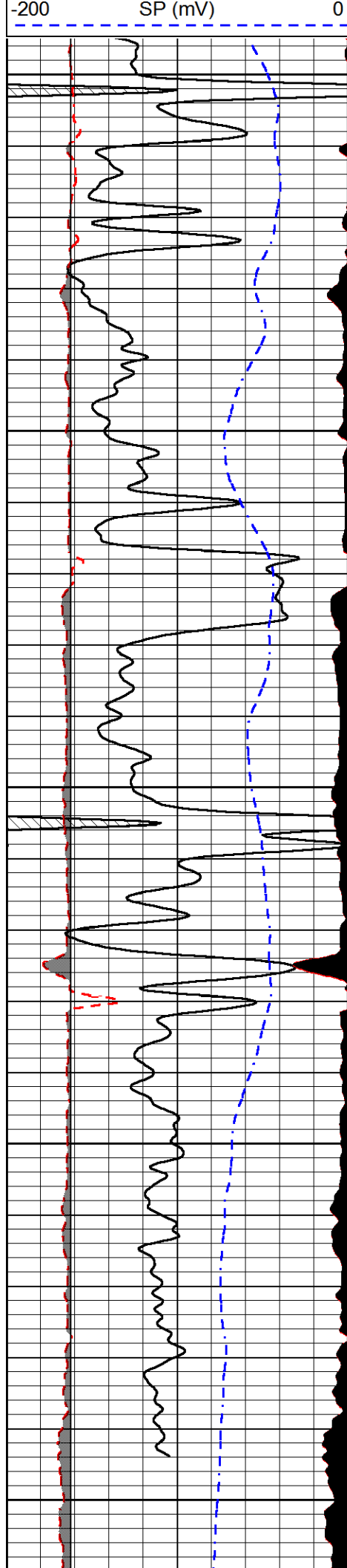


REPEAT SECTION

Database File rjm_elvita_1.db
 Dataset Pathname stackml/pass2.1
 Presentation Format micro
 Dataset Creation Mon Nov 11 00:16:02 2019
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16

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



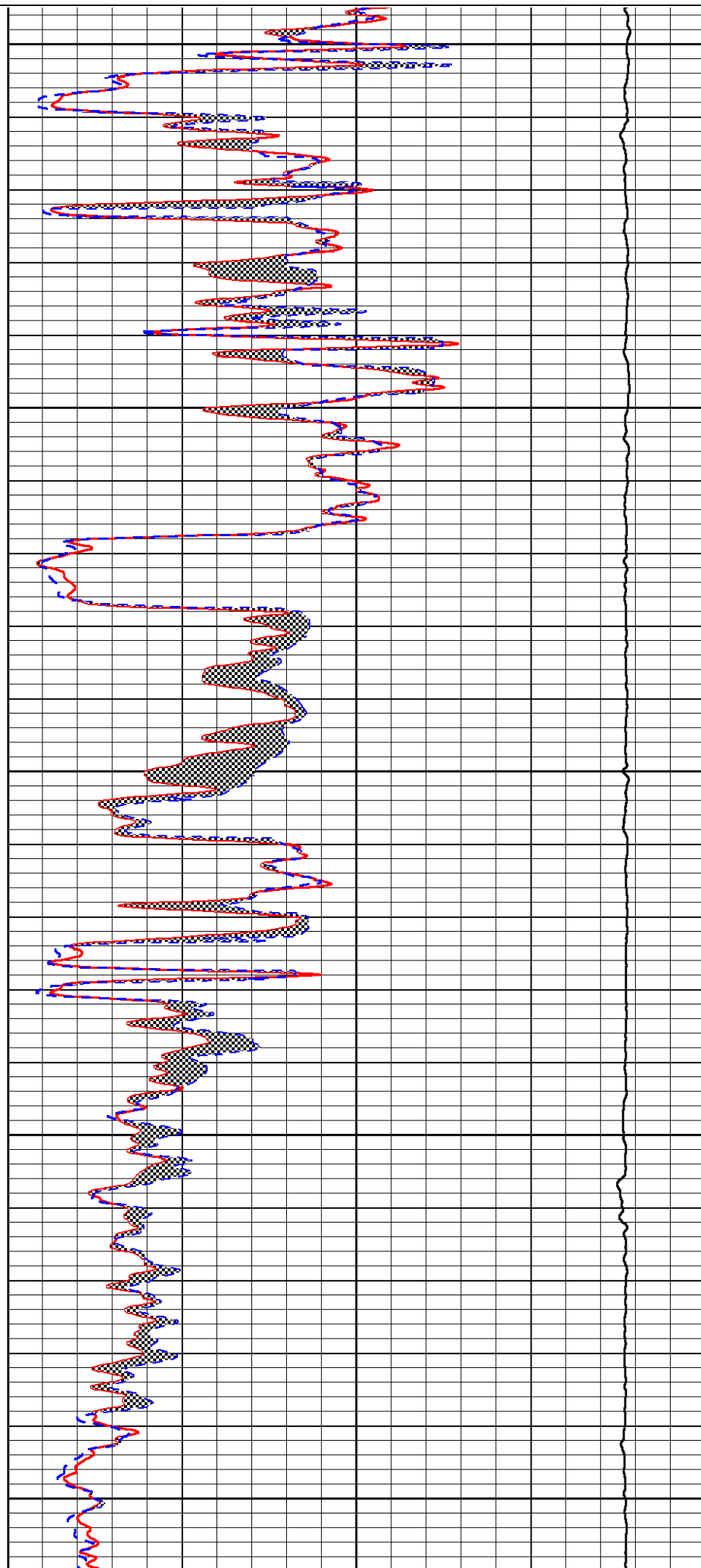
3200

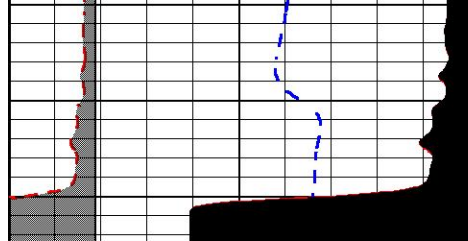
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3300

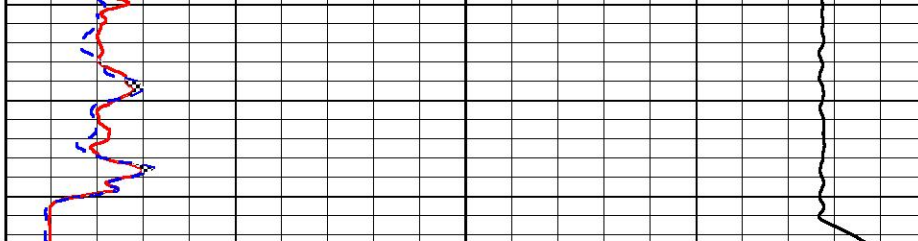
3350

3400





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



Company RJM COMPANY
 Well ELVITA #1
 Field UNKNOWN
 County BARTON
 State KANSAS