



PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company **BEREXCO, LLC**
Well **PETRACEK #7**
Field **PETRACEK**
County **DECATUR** State **KANSAS**

Location: API #: 15-039-21257-00-00

Other Services

1330' FNL & 2530' FWL
SEC 9 TWP 4S RGE 27W

CNL/CDL
DIL

Permanent Datum GROUND LEVEL Elevation 2660'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2668'
D.F. N/A
G.L. 2660'

Date 3/16/2019

Run Number ONE

Depth Driller 3860'

Depth Logger 3860'

Bottom Logged Interval 3859'

Top Log Interval 3000'

Casing Driller 8.625" @ 325'

Casing Logger 327'

Bit Size 7.875"

Type Fluid in Hole CHEMICAL

Salinity, ppm CL 1800

Density / Viscosity 9.1 75

pH / Fluid Loss 10.5 6.4

Source of Sample FLOWLINE

Rm @ Meas. Temp 0.80 @ 60

Rmt @ Meas. Temp 0.60 @ 60

Rmc @ Meas. Temp 1.08 @ 60

Source of Rmt / Rmc CHARTS

Rm @ BHT 0.42 @ 115

Operating Rig Time 3 HOURS

Max Rec. Temp. F 115

Equipment Number P-24

Location HAYS

Recorded By D. SCHMIDT

Witnessed By BRYAN BYNOG

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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.

JENNINGS,
WEST TO 1330 RD, 2 NORTH, 3/4 WEST, 1 NORTH, 3/4 WEST,
SOUTH INTO

Log Measured From: KELLY BUSHING 8 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: BRYAN BYNOG
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 115	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 285	degF 40	Off	ft 3860

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (89)	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
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: berexco_petracek 7.db: field/well/STKML/pass3.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

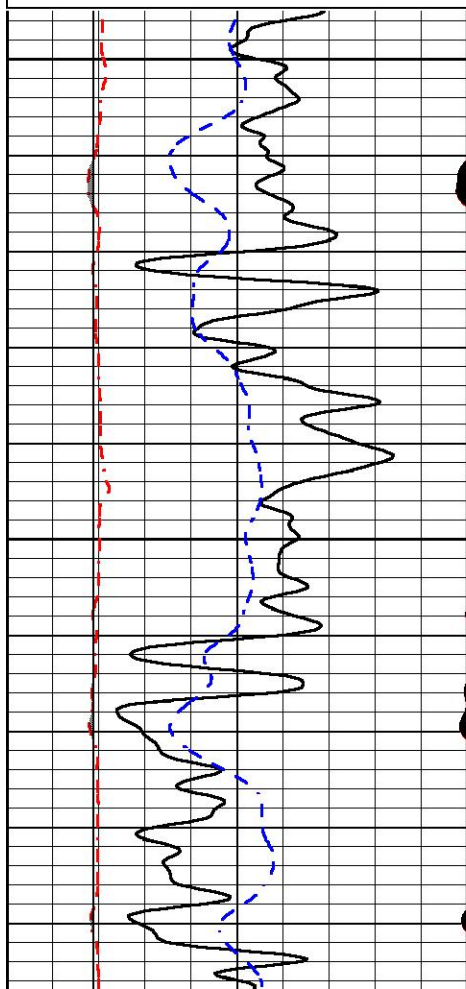


MAIN PASS

Database File berexco_petracek 7.db
 Dataset Pathname STKML/pass3.1
 Presentation Format micro
 Dataset Creation Sat Mar 16 15:58:19 2019
 Charted by Depth in Feet scaled 1:240

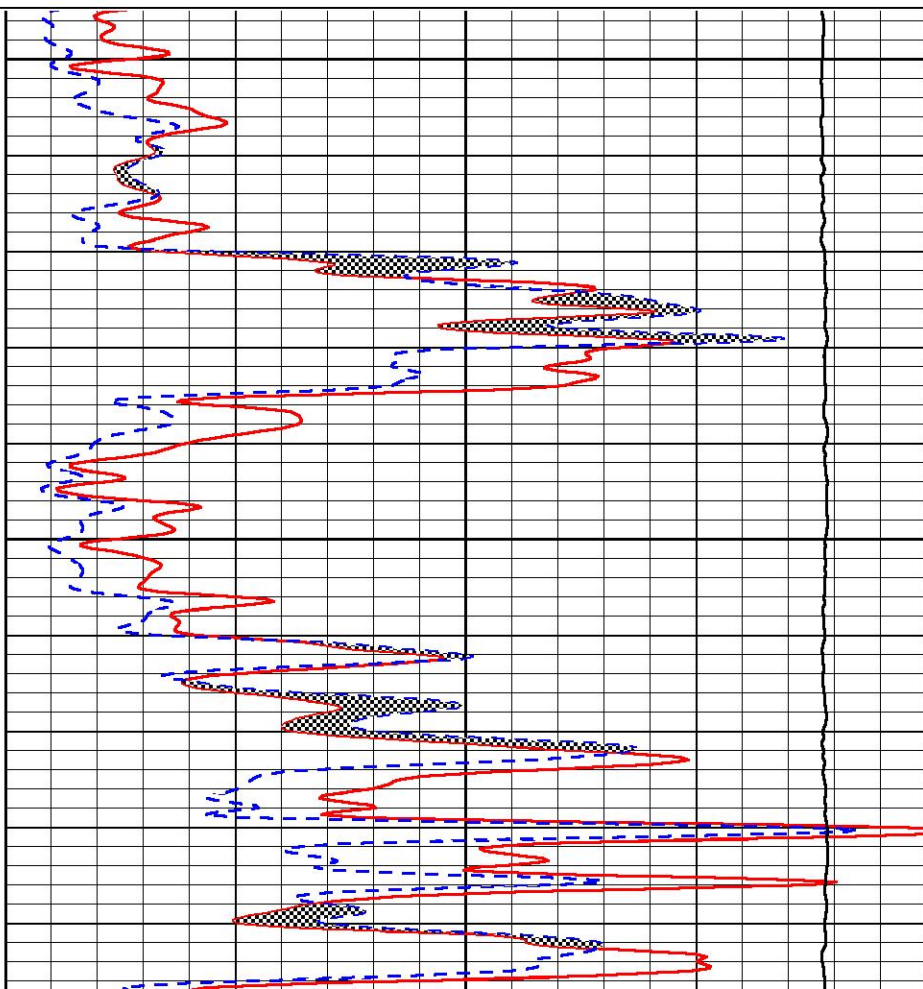
0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcAl (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

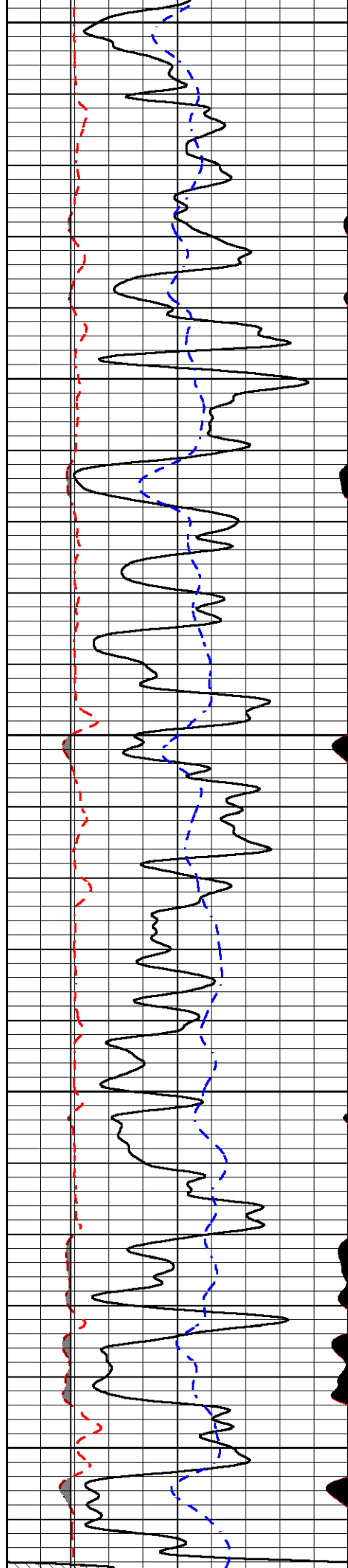
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3000

3050





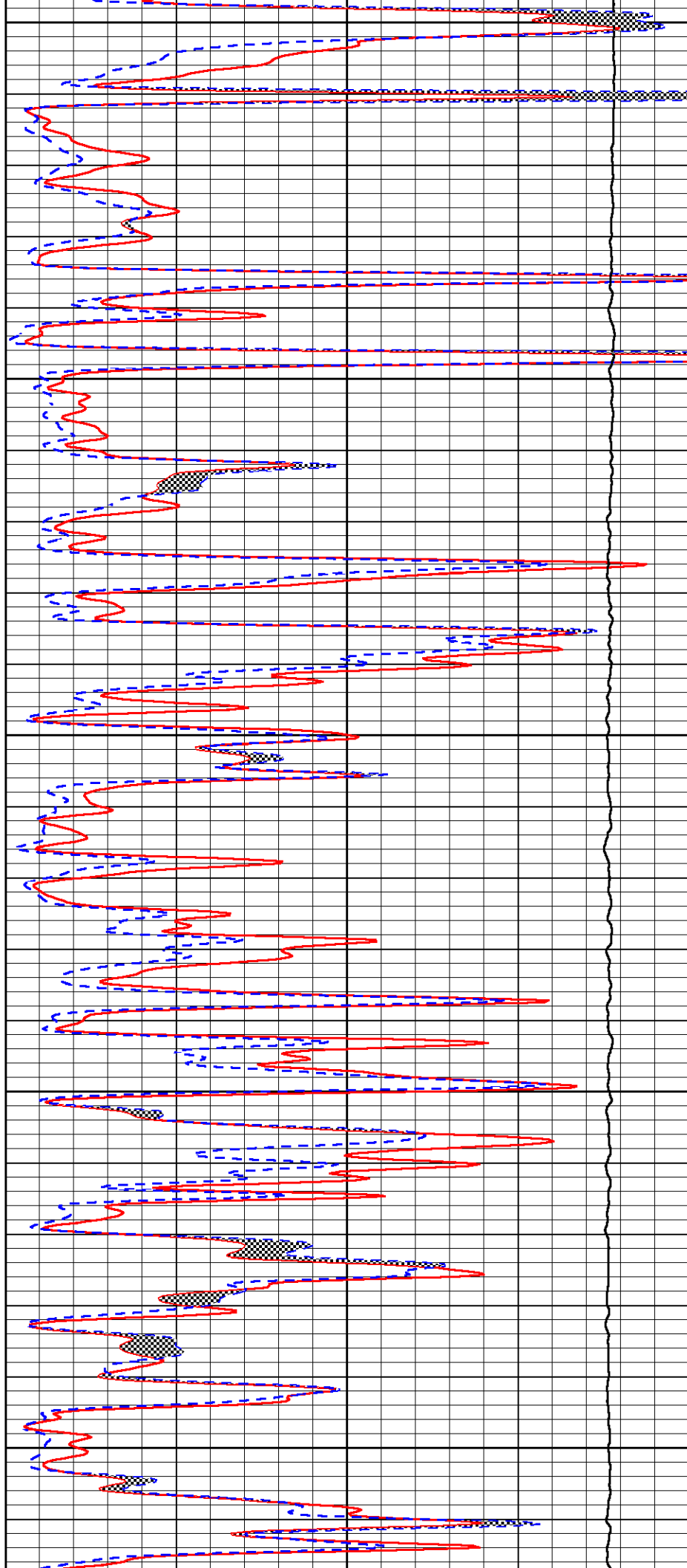
3100

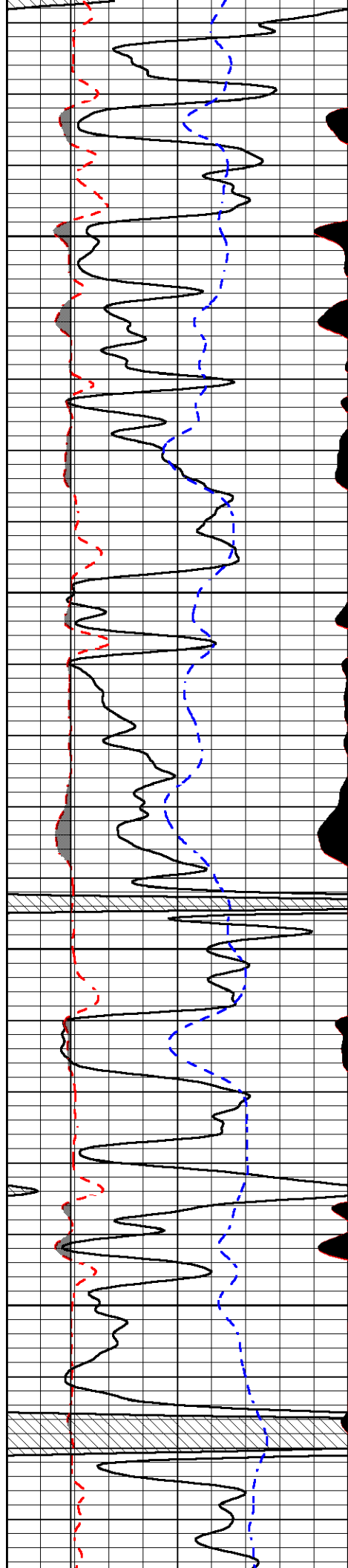
3150

3200

3250

3300



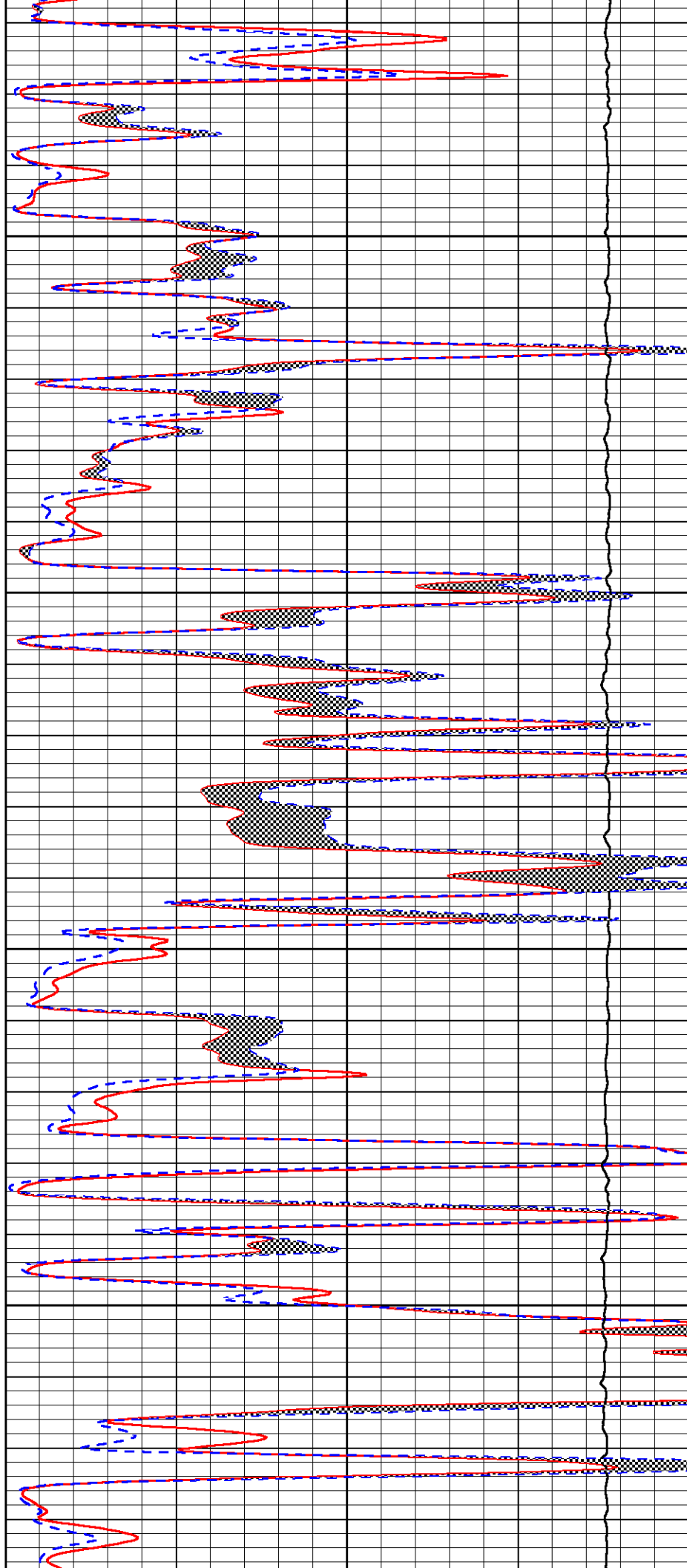


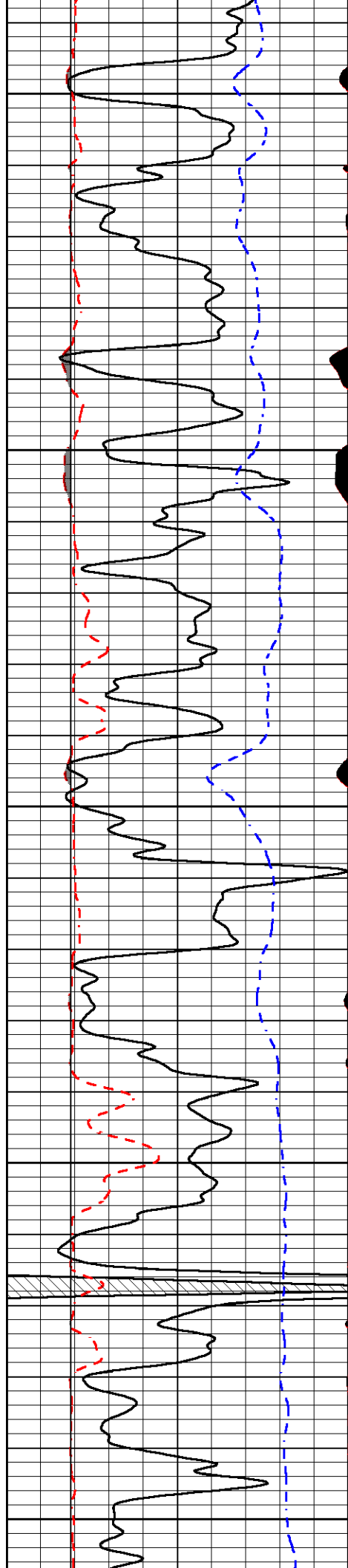
3350

3400

3450

3500





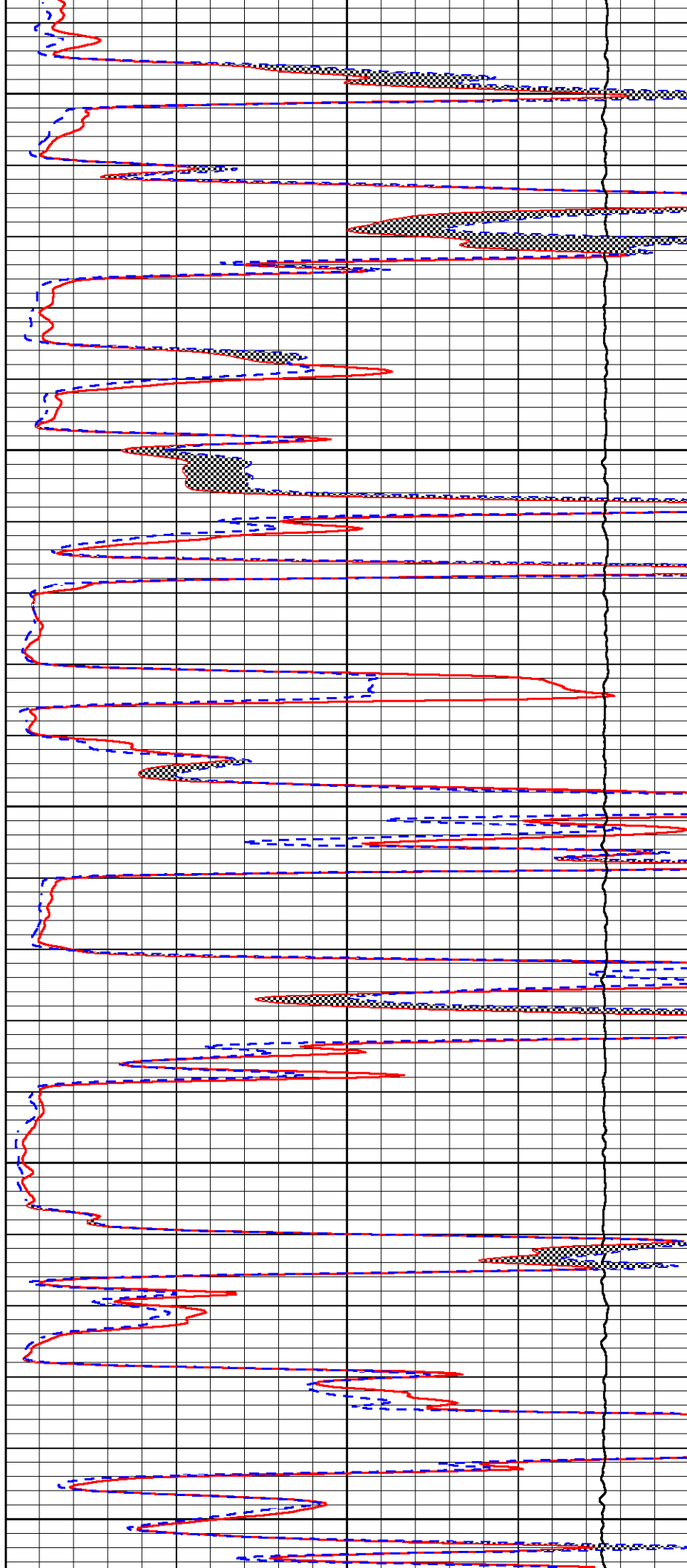
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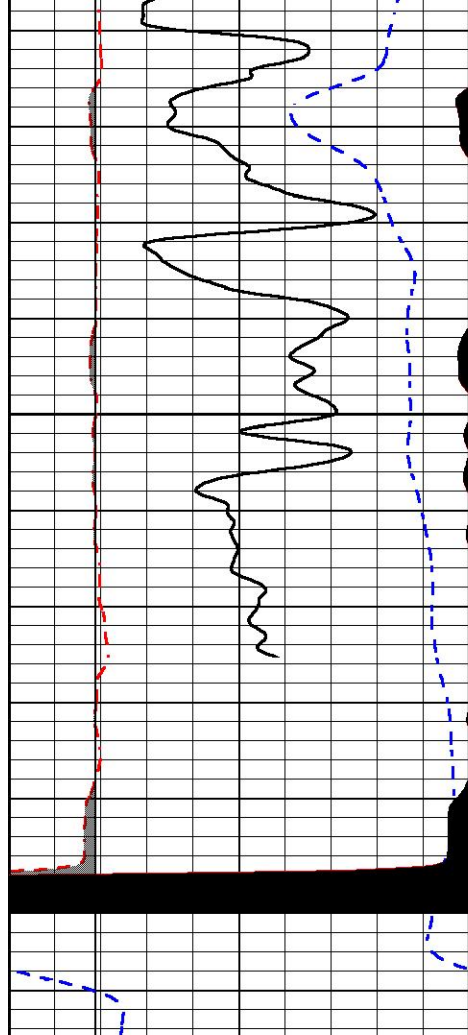
3600

3650

3700

3750

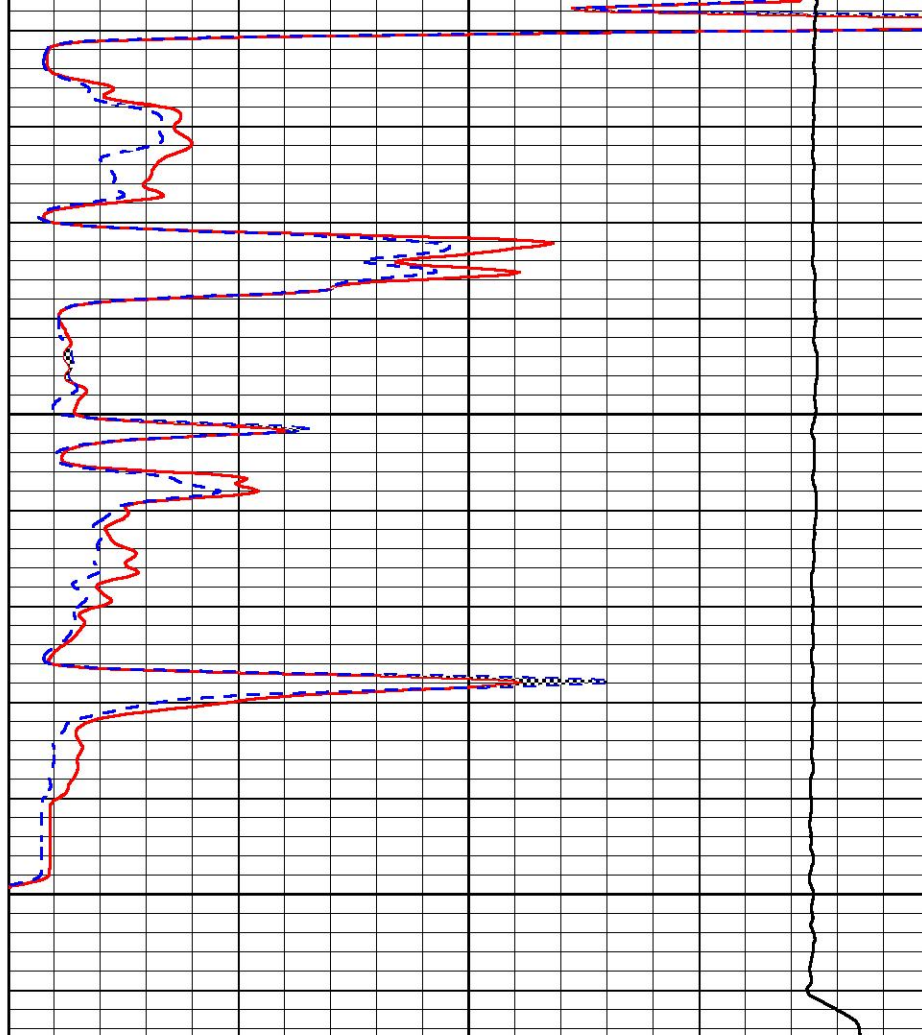




0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

3800

3850



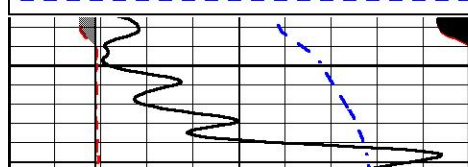
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0

PIONEER
Pioneer Energy Services

REPEAT SECTION

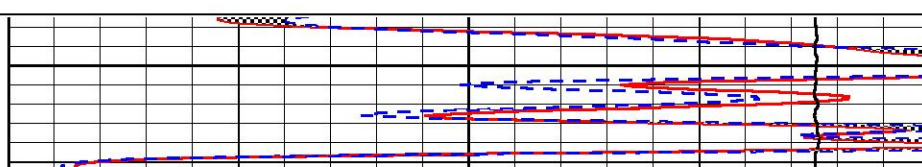
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Dataset Pathname STKML/pass2.3
Presentation Format micro
Dataset Creation Sat Mar 16 16:00:31 2019
Charted by Depth in Feet scaled 1:240

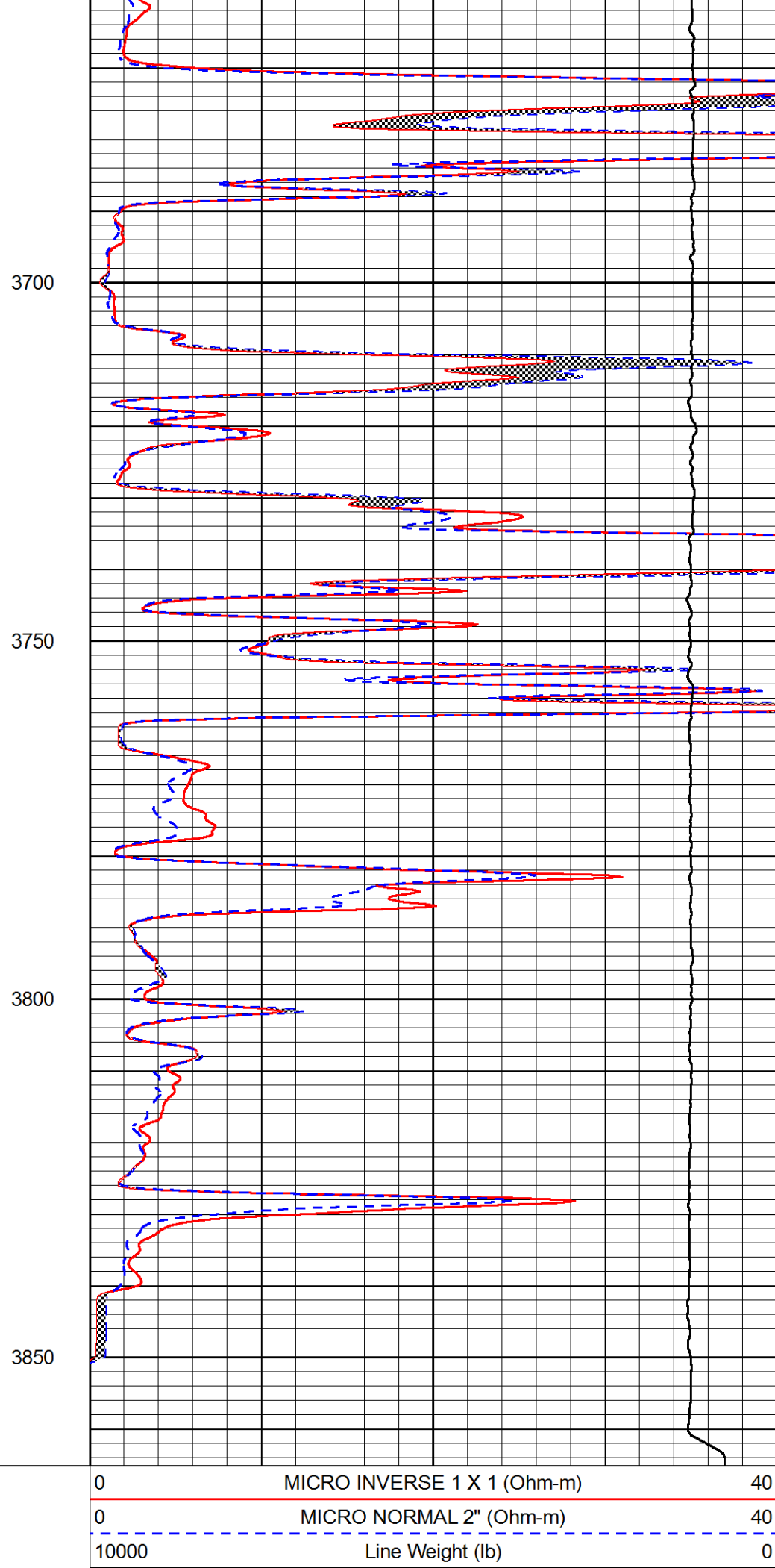
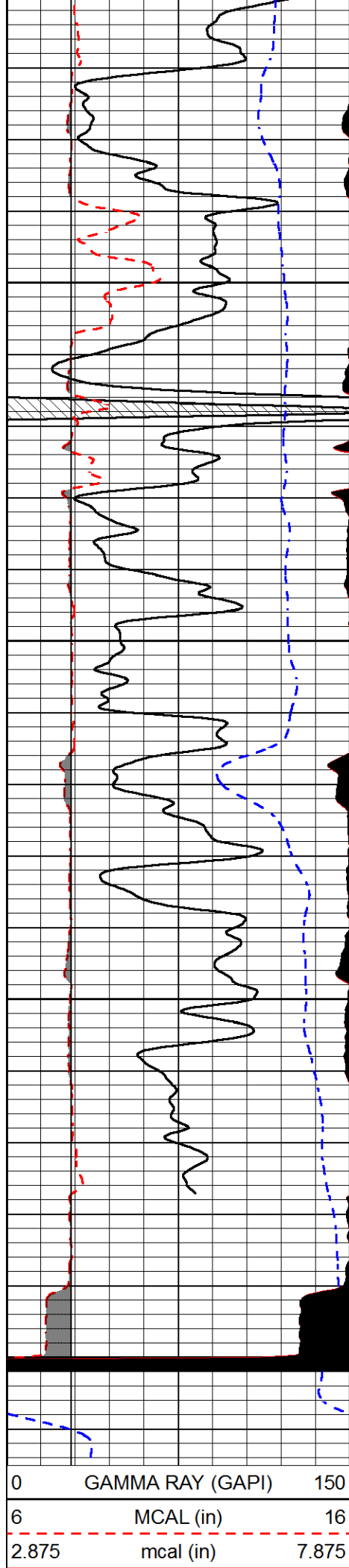
0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0



3650

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





6	Bit Size (in)	16
-200	SP (mV)	0

Calibration Report		
Database File	berexco_petracek 7.db	
Dataset Pathname	STKML/pass3.1	
Dataset Creation	Sat Mar 16 15:58:19 2019	

Dual Induction Calibration Report		
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Serial-Model:	967 (HT)-PSI HIGH TEMP
Calibration Performed:	Sun Oct 07 20:24:22 2018

		Readings		References		Results	
Loop:		Air	Loop	Air	Loop	Gain	Offset
Deep		167.000	835.000	0.000	255.800 mmho/m	0.565	-19.000
Medium		0.000	1348.000	142.000	255.800 mmho/m	0.390	-42.000

Microlog Calibration Report		
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Serial-Model:	PSI-01-PSIML
Performed:	Sun Feb 24 10:53:40 2019

		Readings		References		Results	
		Zero	Cal	Zero	Cal	m	b
Normal		0.0000	1.0000	0.0000	1.0000 Ohm-m	26000.0000	-1.7000
Inverse		0.0000	1.0000	0.0000	1.0000 Ohm-m	30000.0000	-1.3000
Caliper		1.0001	1.1397	6.5000	18.5000 in	70.0000	-65.8500

Compensated Density Calibration Report		
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Serial-Model:	96-916-M&W
Source / Verifier:	16955B / 2ci
Master Calibration Performed:	Sat Feb 09 06:25:40 2019

Master Calibration						
			Density	Far Detector		Near Detector
Magnesium			1.755 g/cc	8943.64	10054.60	cps
Aluminum			2.665 g/cc	1595.61	6242.82	cps
			Spine Angle = 74.54	Density/Spine Ratio = 0.509		
			Size	Reading		
Small Ring			6.00 in	1.75		
Large Ring			16.00 in	1.46		

Compensated Neutron Calibration Report		
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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:	89	
Tool Model:	M&W	
Calibration Performed:	Fri Aug 24 12:16:10 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps



Company

BEREXCO, LLC

Well

PETRACEK #7

Field

PETRACEK

County

DECATUR

State

KANSAS