



PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company MURFIN DRILLING COMPANY, INC.
Well HENDERSON G #7
Field BEMIS SHUTTS
County ELLIS
State KANSAS

Company MURFIN DRILLING COMPANY, INC.
Well HENDERSON G #7
Field BEMIS SHUTTS
County ELLIS State KANSAS

Location: API #: 15-051-26971-00-00

Other Services

S2 NE SW NW
1905' FNL & 990' FWL
SEC 27 TWP 11S RGE 18W

CNL/CDL
DIL/BHCS

Permanent Datum GROUND LEVEL Elevation 2087'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2092'
D.F. N/A
G.L. 2087'

Date 9/25/2019

Run Number TWO

Depth Driller 3711'

Depth Logger 3710'

Bottom Logged Interval 3709'

Top Log Interval 3000'

Casing Driller 8.625" @ 302'

Casing Logger 300'

Bit Size 7.875"

Type Fluid in Hole CHEMICAL

Salinity, ppm CL 3200

Density / Viscosity 9.2 60

pH / Fluid Loss 10.5 7.2

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 0.49 @ 113

Operating Rig Time 4 HOURS

Max Rec. Temp. F 113 DEG F

Equipment Number P-108

Location HAYS

Recorded By J. HENRICKSON

Witnessed By ROBERT HENDRIX

<<< Fold Here >>>

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.

HAYS, N TO HOMESTEAD RD, 1.5 N, E INTO, S & E UP HILL TO LOCATION

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: J. HENRICKSON
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: ROBERT HENDRIX
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin_henderson g #7.db
Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	113	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	70	70	Off	3710

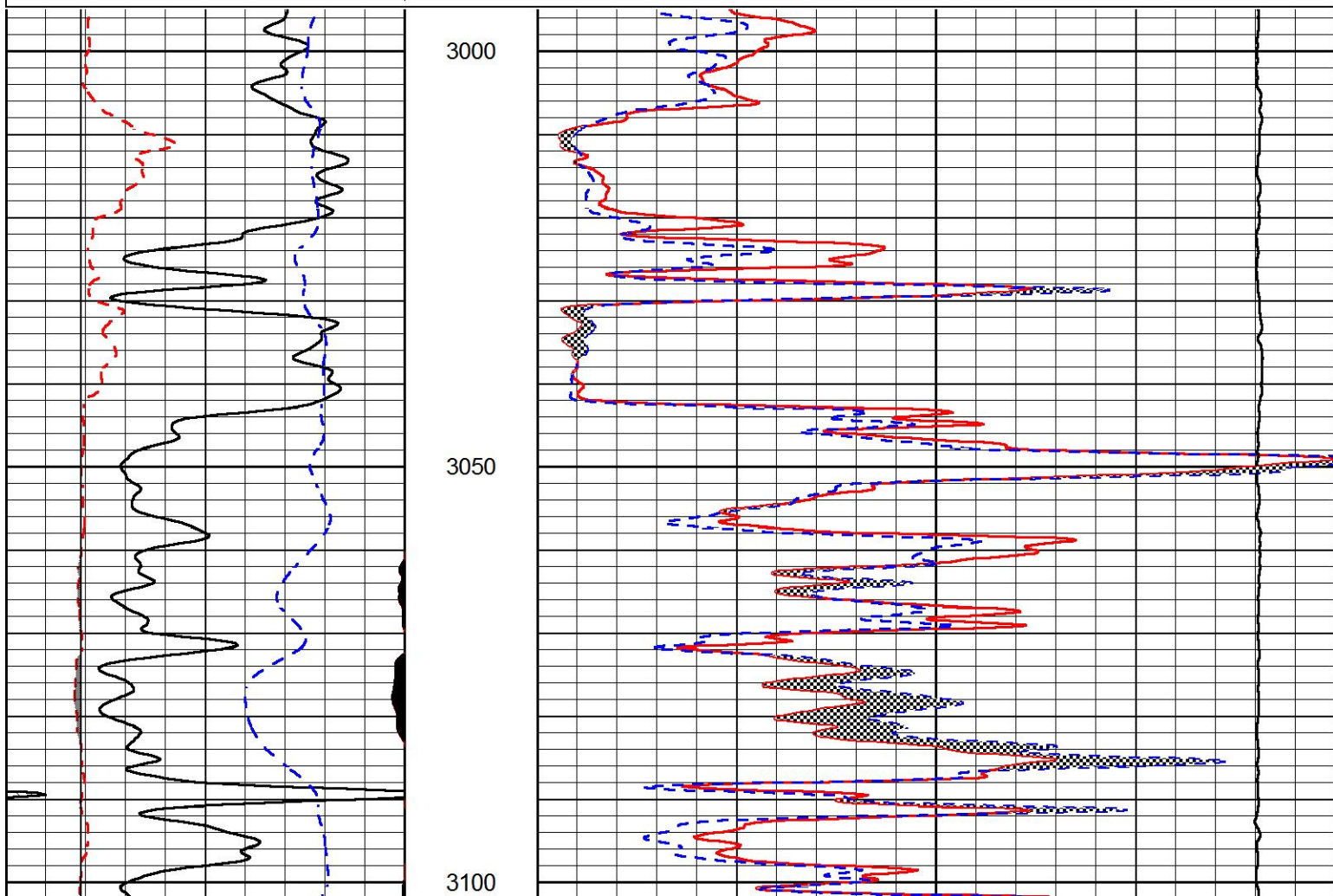


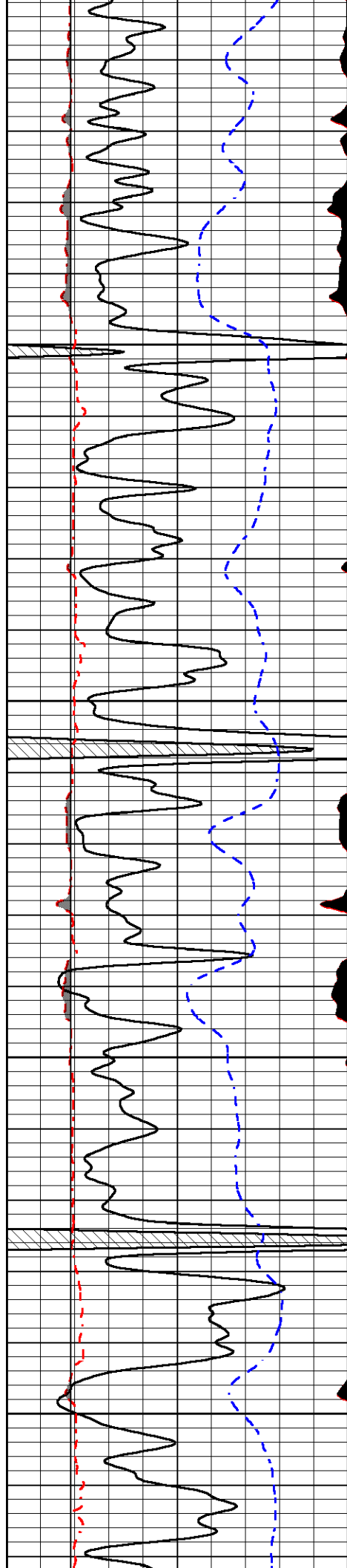
MAIN PASS

Database File murfin_henderson g #7.db
Dataset Pathname stack/pass3.1
Presentation Format micro
Dataset Creation Wed Sep 25 06:29:42 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



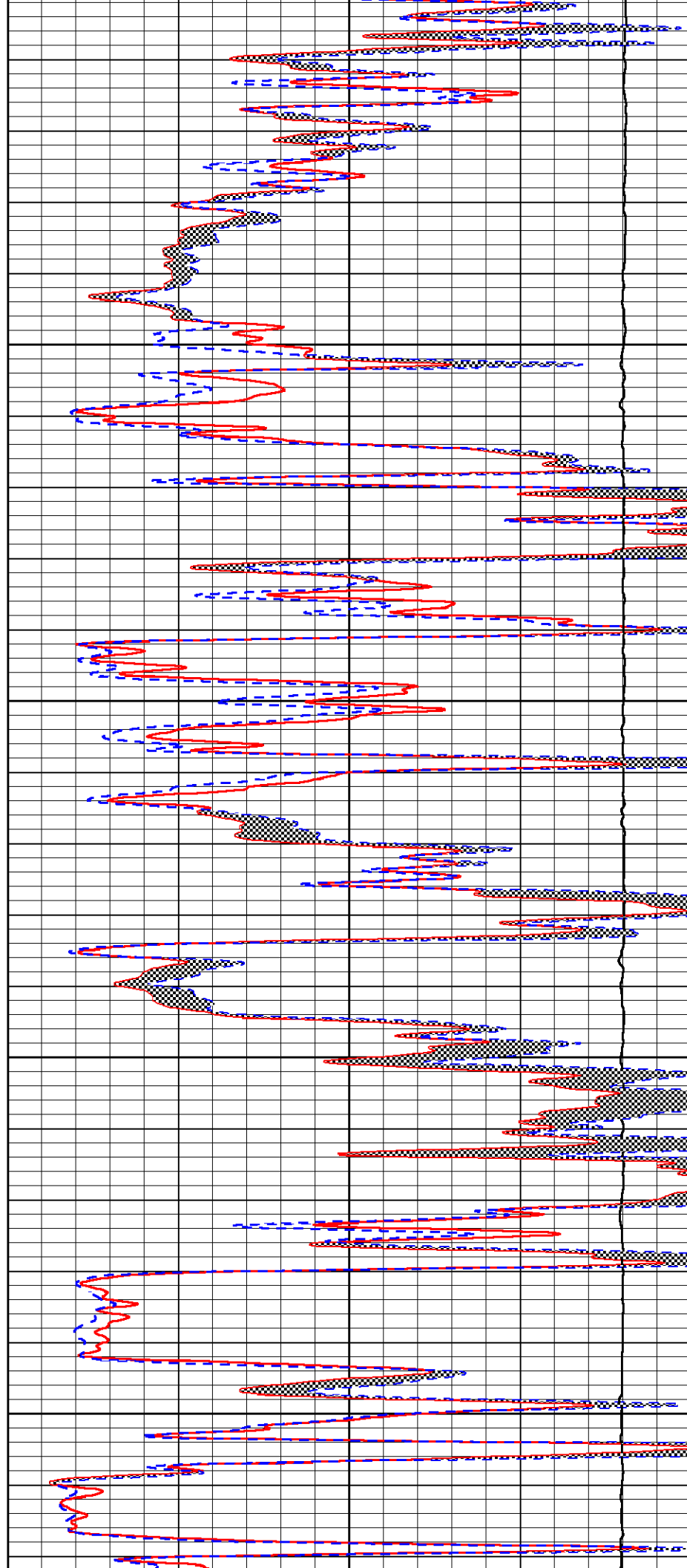


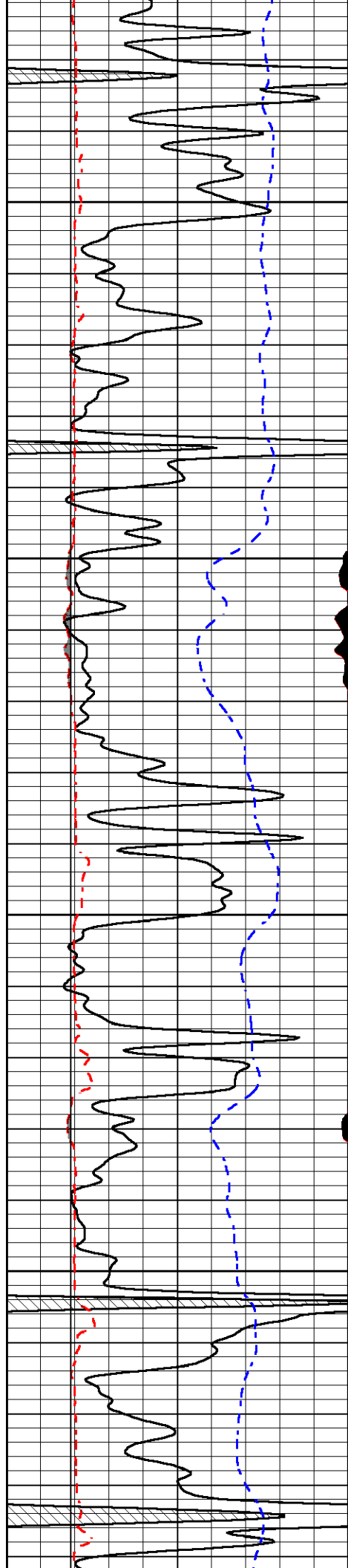
3150

3200

3250

3300



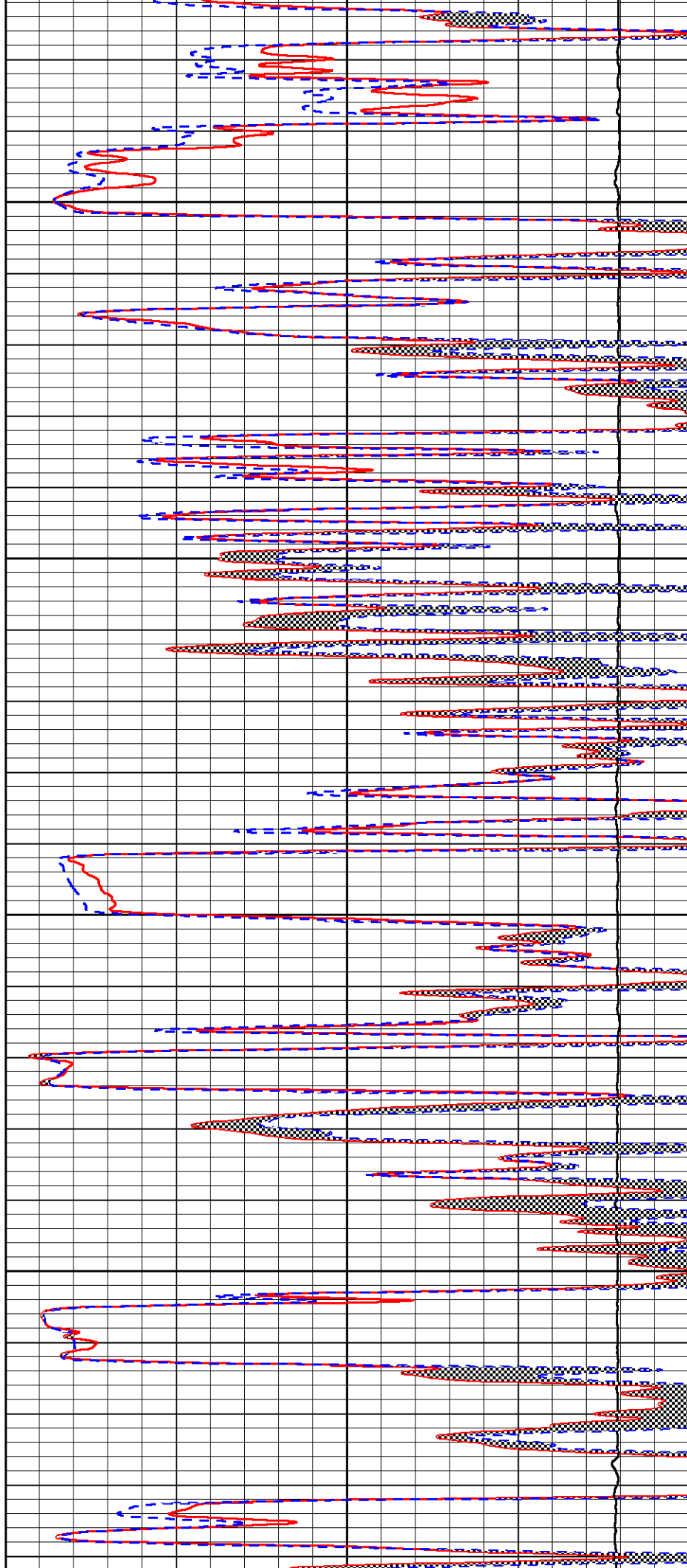


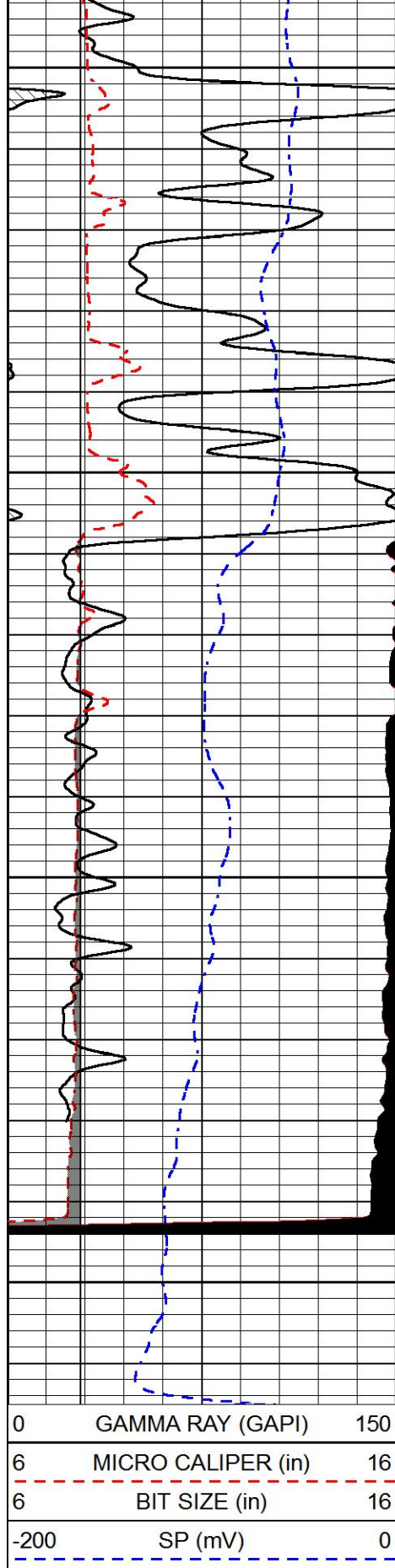
3350

3400

3450

3500



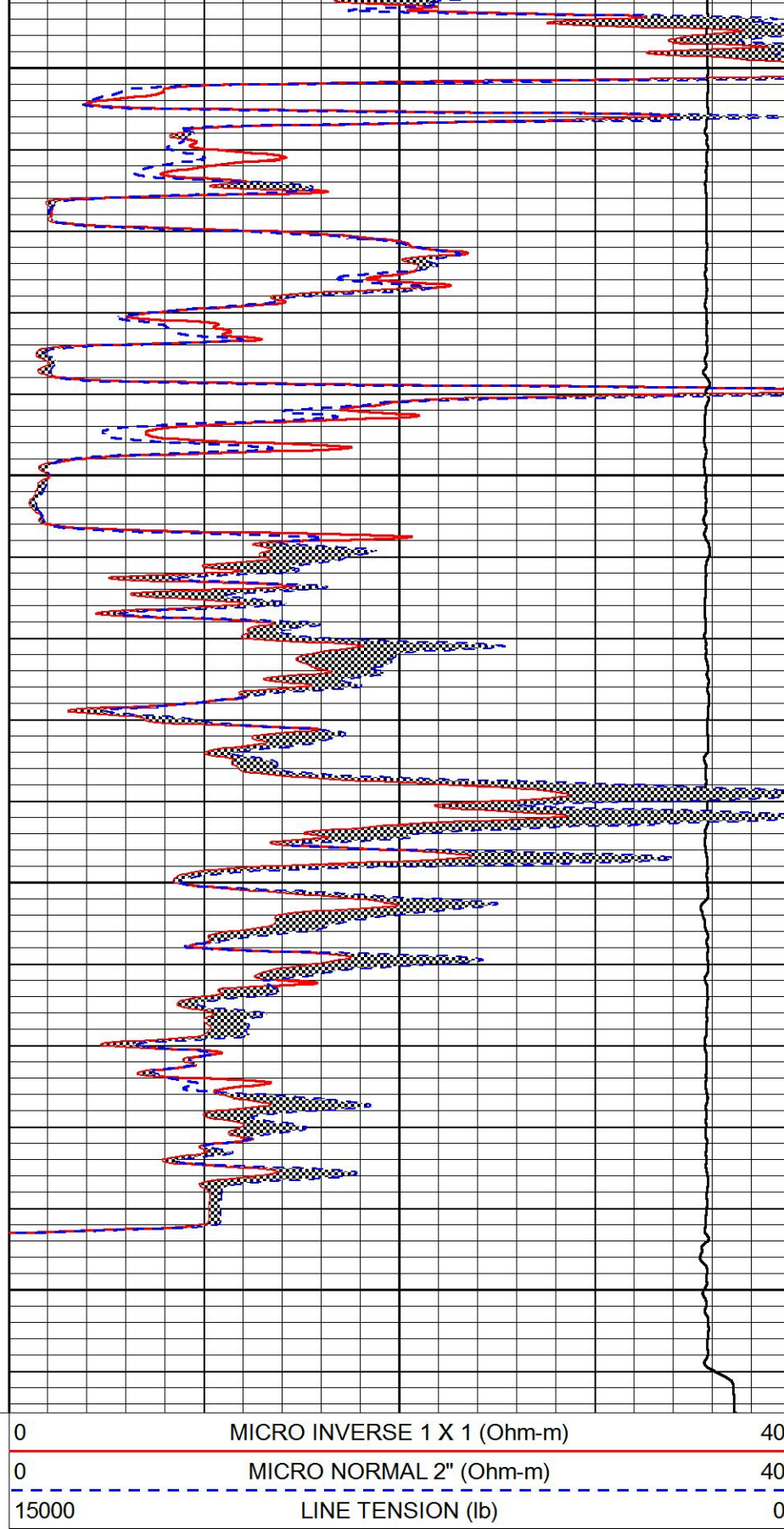


3550

3600

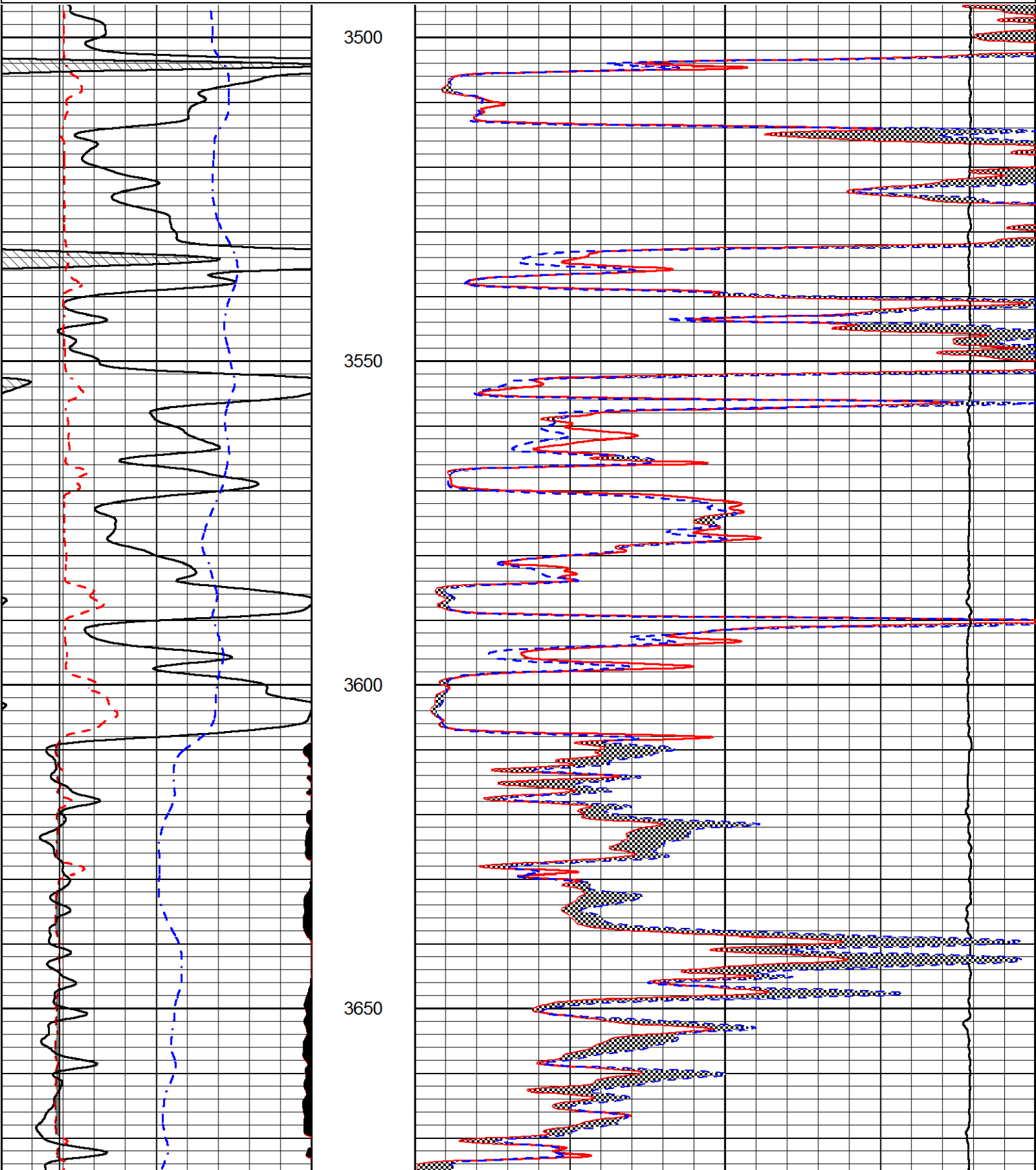
3650

3700



Database File	murfin_henderson g #7.db	
Dataset Pathname	stack/pass2.1	
Presentation Format	micro	
Dataset Creation	Wed Sep 25 05:58:24 2019	
Charted by	Depth in Feet scaled 1:240	

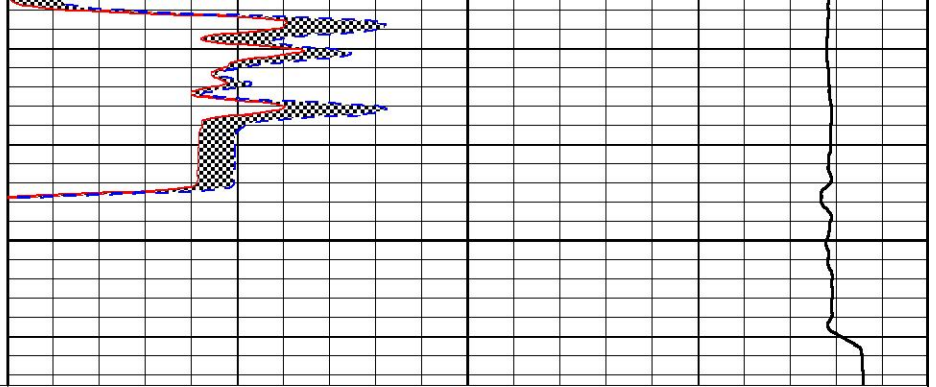
0	GAMMA RAY (GAPI)	150	0	MICRO INVERSE 1 X 1 (Ohm-m)	40
6	MICRO CALIPER (in)	16	0	MICRO NORMAL 2" (Ohm-m)	40
6	BIT SIZE (in)	16	15000	LINE TENSION (lb)	0
-200	SP (mV)	0			





3700

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	MURFIN DRILLING COMPANY, INC.
Well	HENDERSON G #7
Field	BEMIS SHUTTS
County	ELLIS
State	KANSAS