



DUAL INDUCTION LOG

Company Triple Crown Operating, LLC.

Well McJunkin #1-27

Field Barricklow

County Ness State Kansas

Location: API #: 15 135 25963

2513' FSL & 475' FWL

SEC 27 TWP 20S RGE 22W

Permanent Datum Ground Level Elevation 2171'
Log Measured From KB 5' AGL
Drilling Measured From KB

Other Services
CDNL
BCS
Elevation
K.B. 2176'
D.F. 2175'
G.L. 2171'

Date 8-22-17

Run Number One

Depth Driller 4336'

Depth Logger 4338'

Bottom Logged Interval 4336'

Top Log Interval 1377'

Casing Driller 8 5/8" @ 1397'

Casing Logger 1397'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.1/56

pH / Fluid Loss 9.5/9.6

Source of Sample Pit

Rm @ Meas. Temp 1.9@84degf

Rmf @ Meas. Temp 1.425@84degf

Rmc @ Meas. Temp 2.28@84degf

Source of Rmf / Rmc Calculated

Rm @ BHT 1.33@120degf

Time Circulation Stopped 7:30 p.m.

Time Logger on Bottom 10:50 p.m.

Maximum Recorded Temperature 120degf

Equipment Number T-729

Location Hays, KS

Recorded By C. Patterson

Witnessed By Mr. Sean Deenihan

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

South out of Ness City on 283 to 20 Rd.,
Then East to Z Rd., South 1 mi. to 10 Rd., Then East 1 mi., North into location

Thanks for using Gemini Wireline LLC
785-625-1182

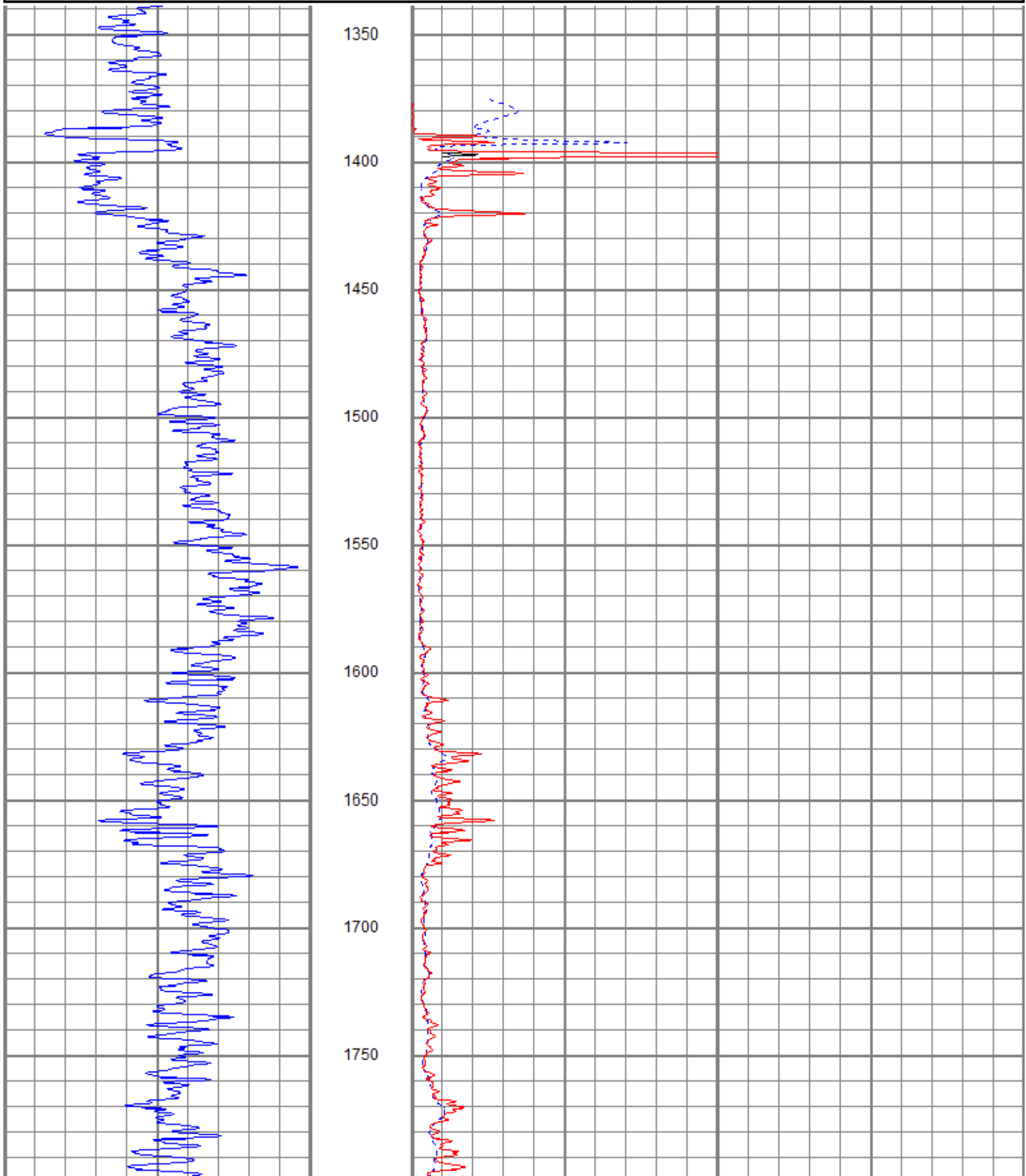


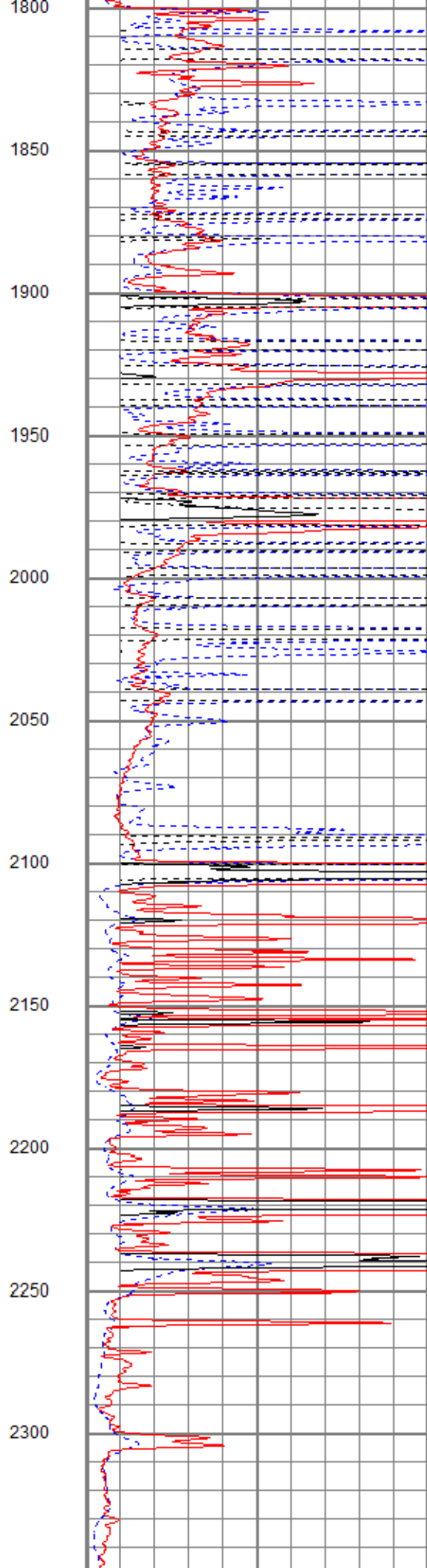
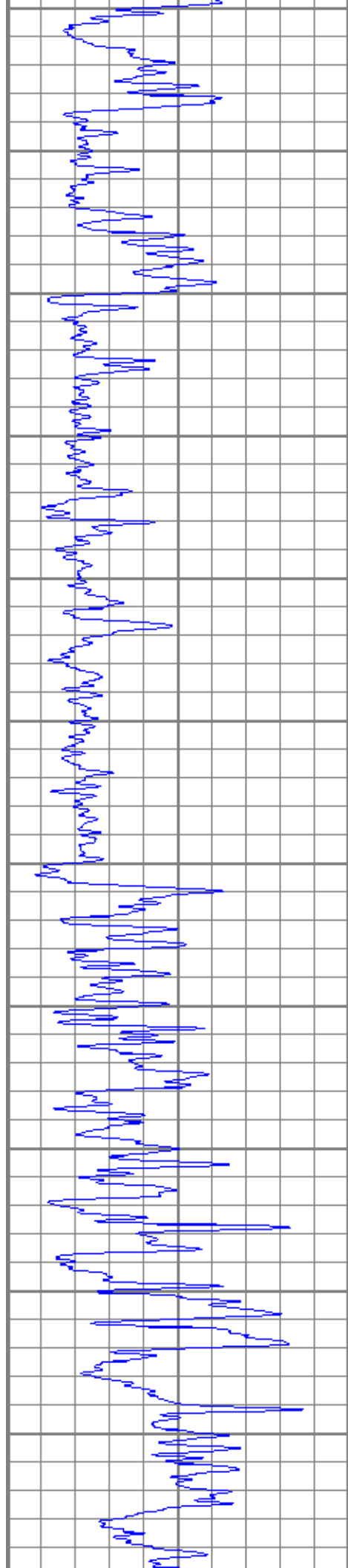
MAIN PASS

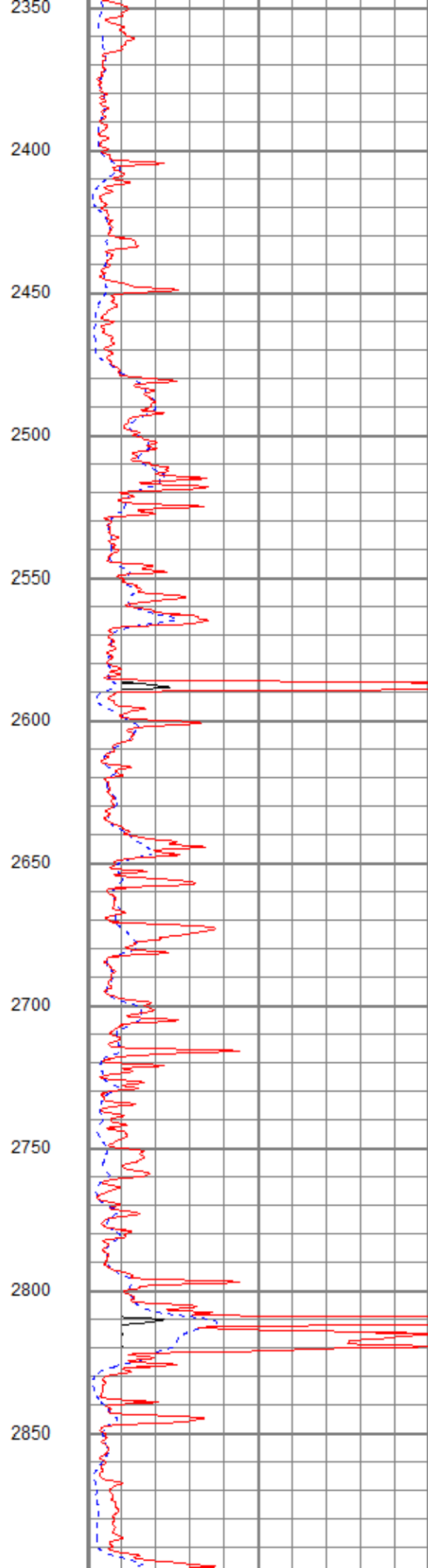
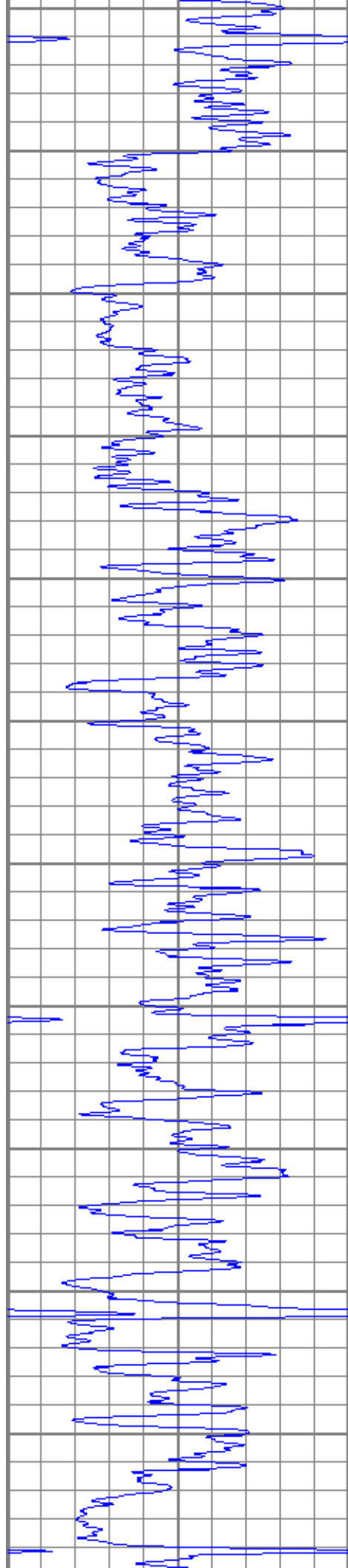
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Dataset Pathname pass2.1
Presentation Format kdi11inn
Dataset Creation Wed Aug 23 03:15:49 2017
Charted by Depth in Feet scaled 1:600

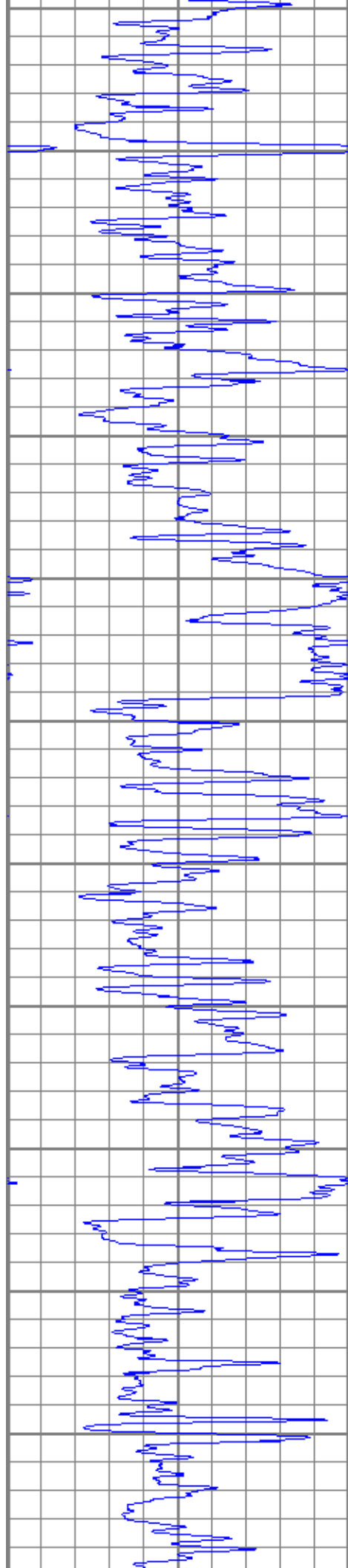
0 GR (GAPI) 150

0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500

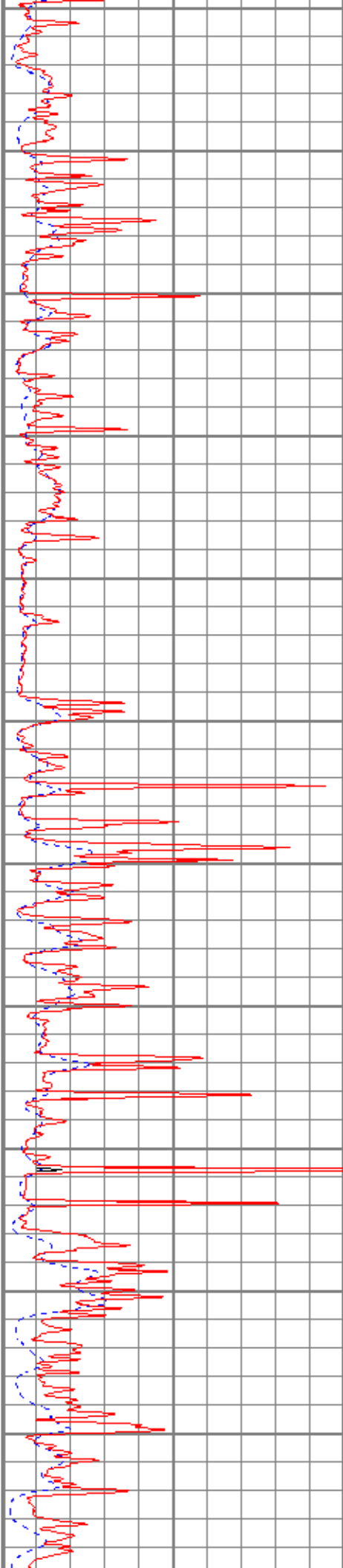


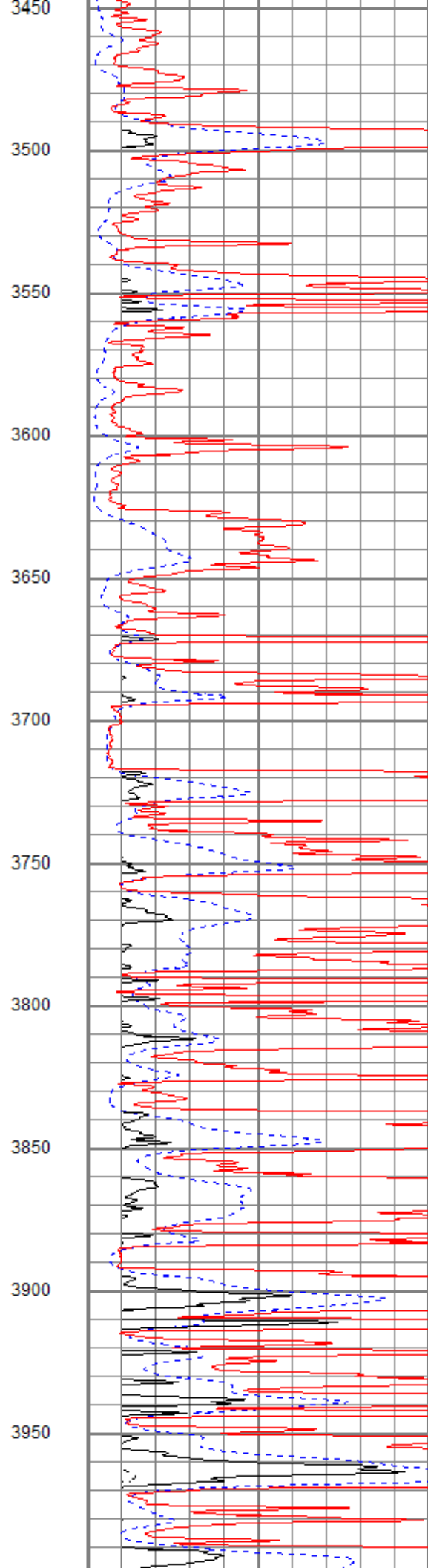
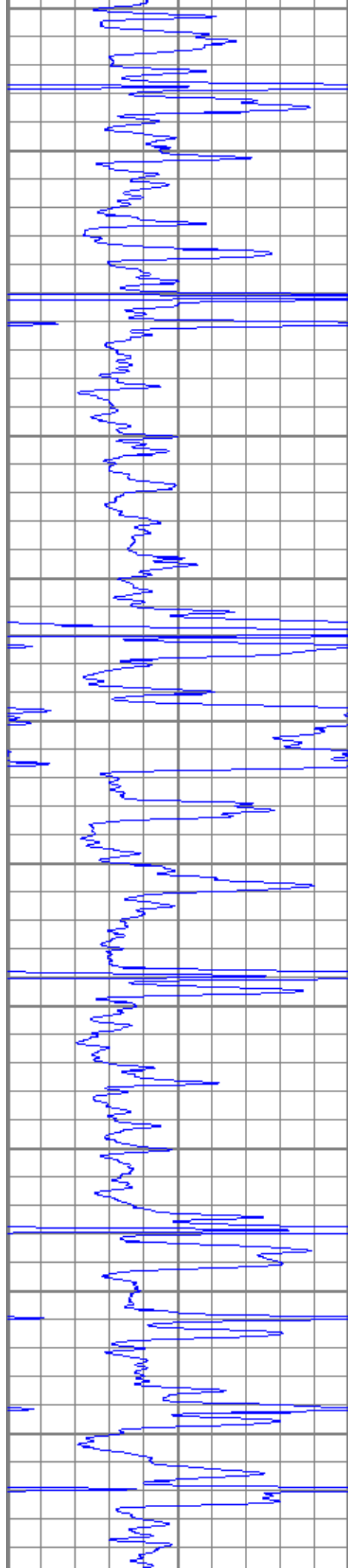


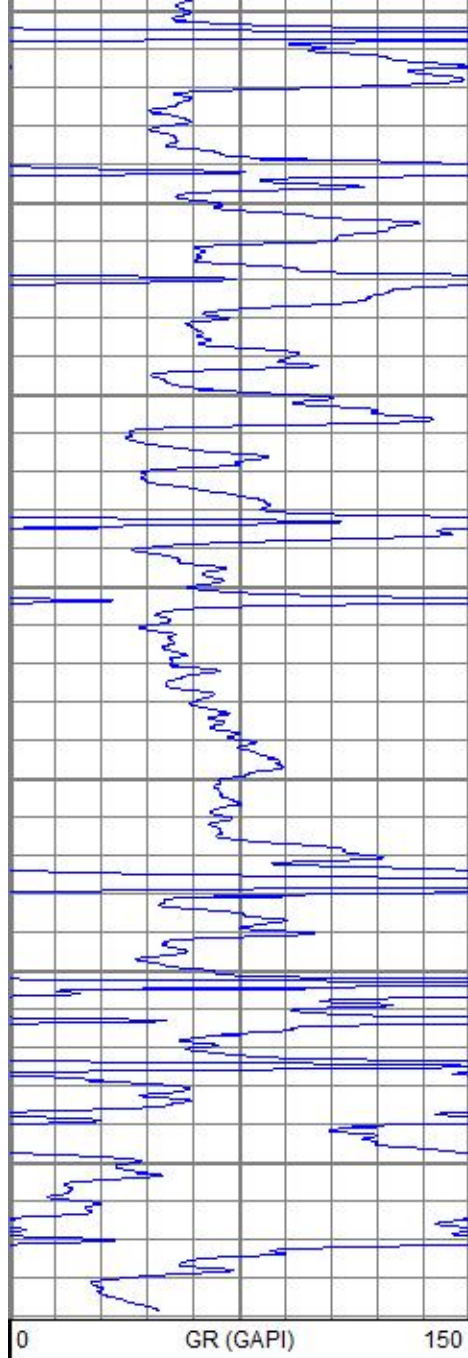




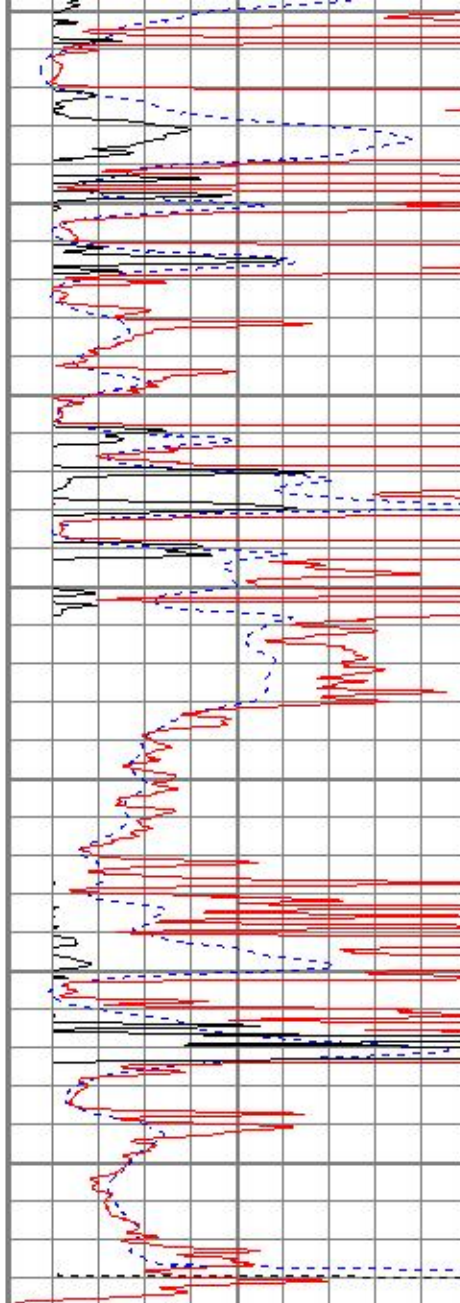
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400







4000
4050
4100
4150
4200
4250
4300



0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500



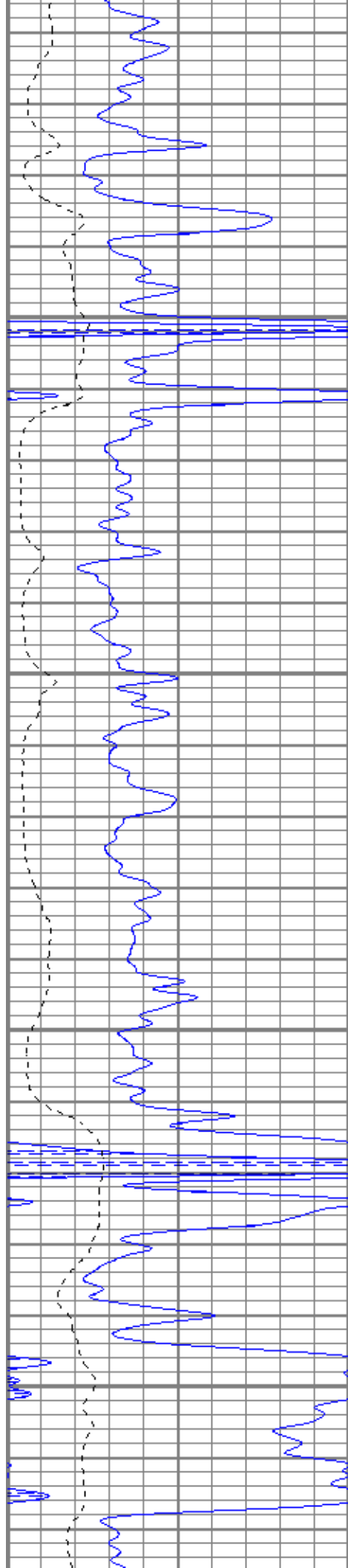
MAIN PASS

Database File tcmcjunkin#1-27oh.db
Dataset Pathname pass2.1
Presentation Format kdil
Dataset Creation Wed Aug 23 03:15:49 2017
Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000



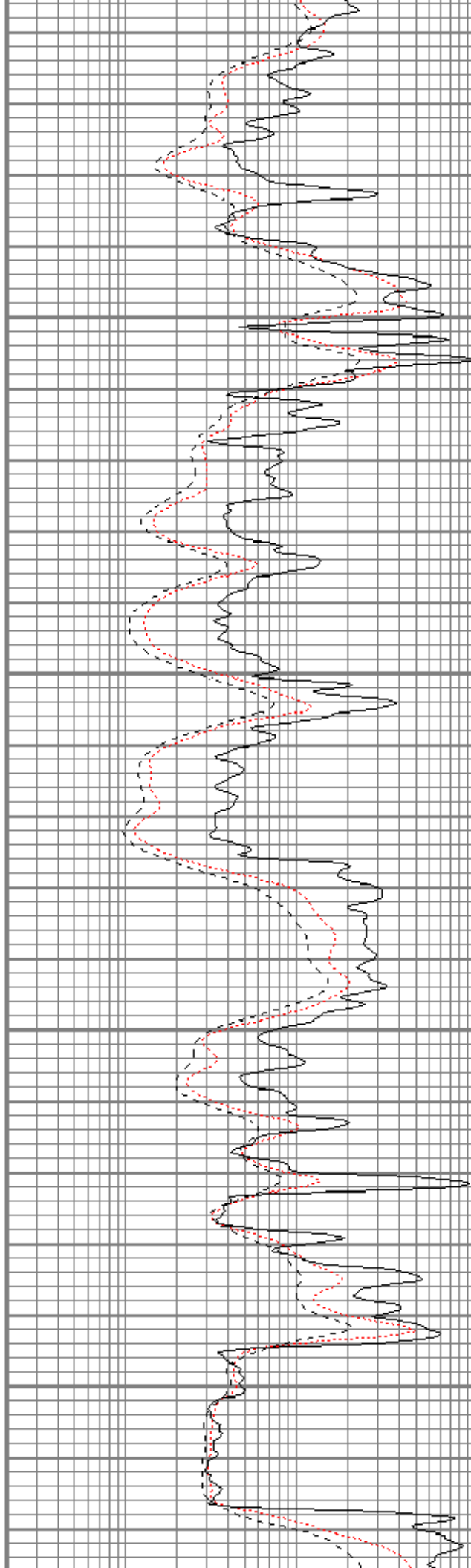


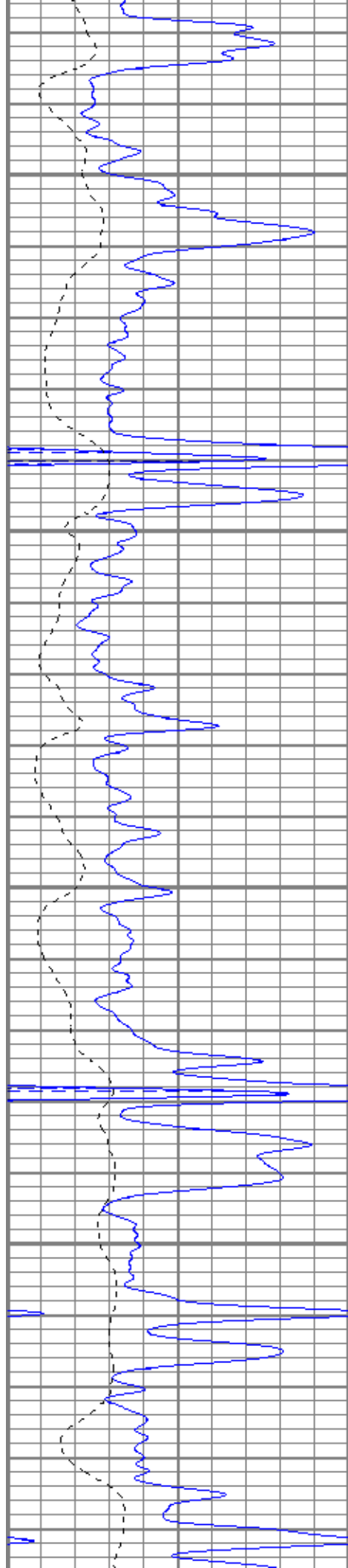
3550

3600

3650

3700



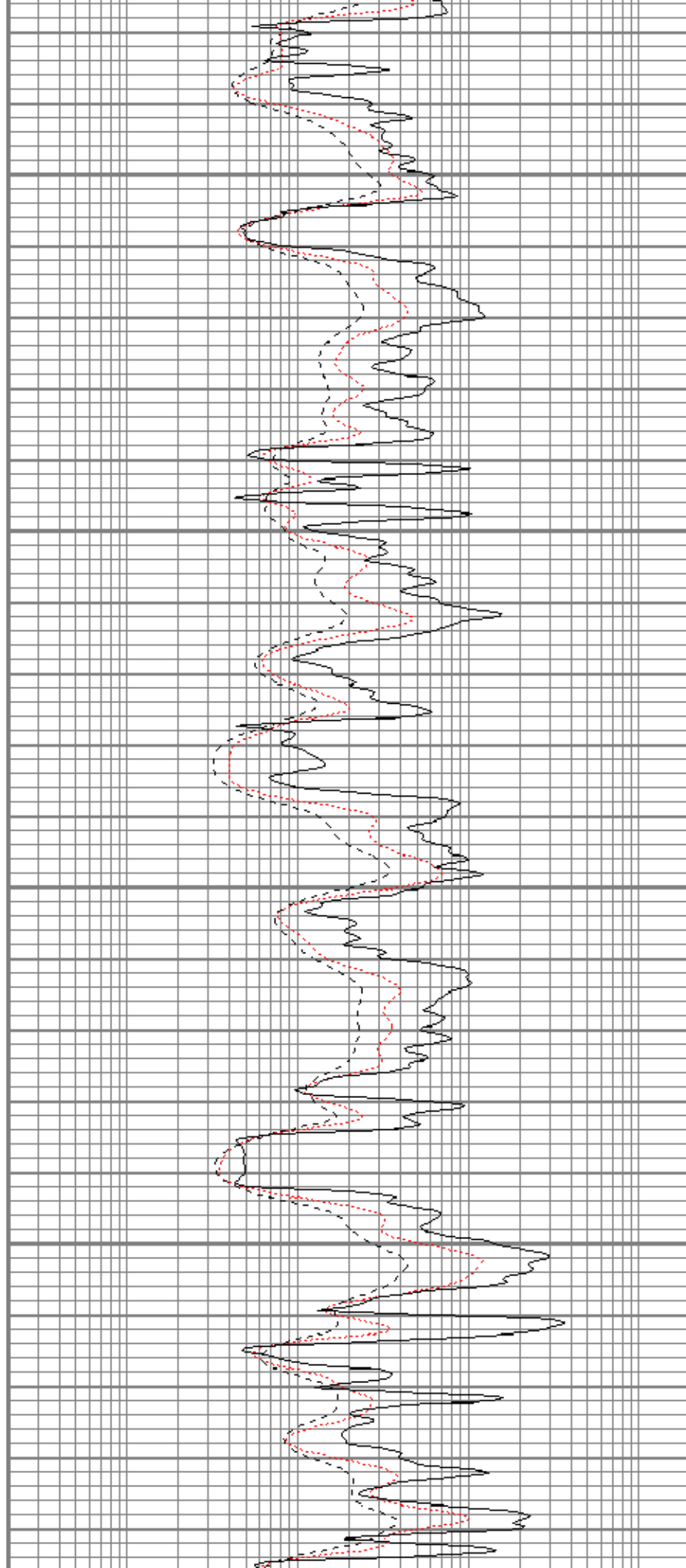


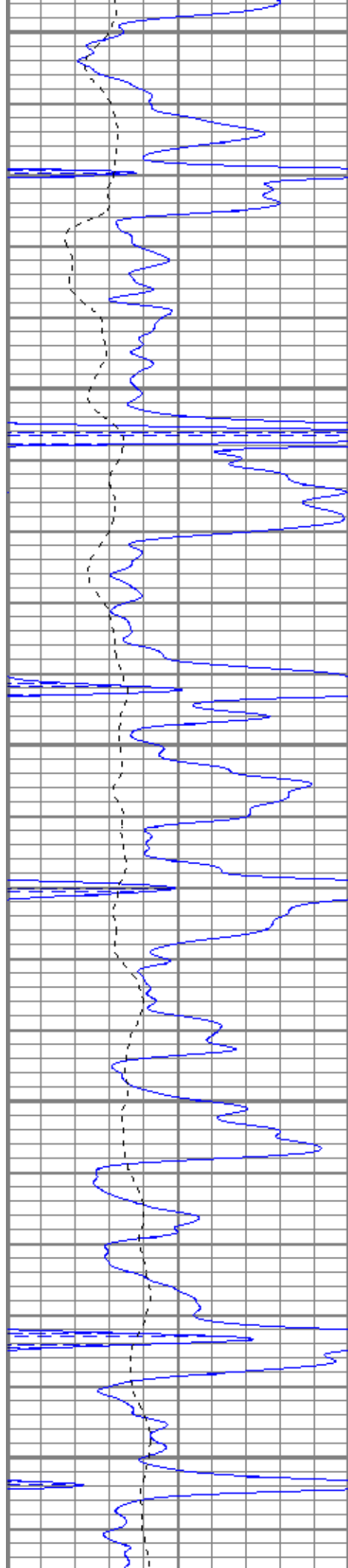
3750

3800

3850

3900





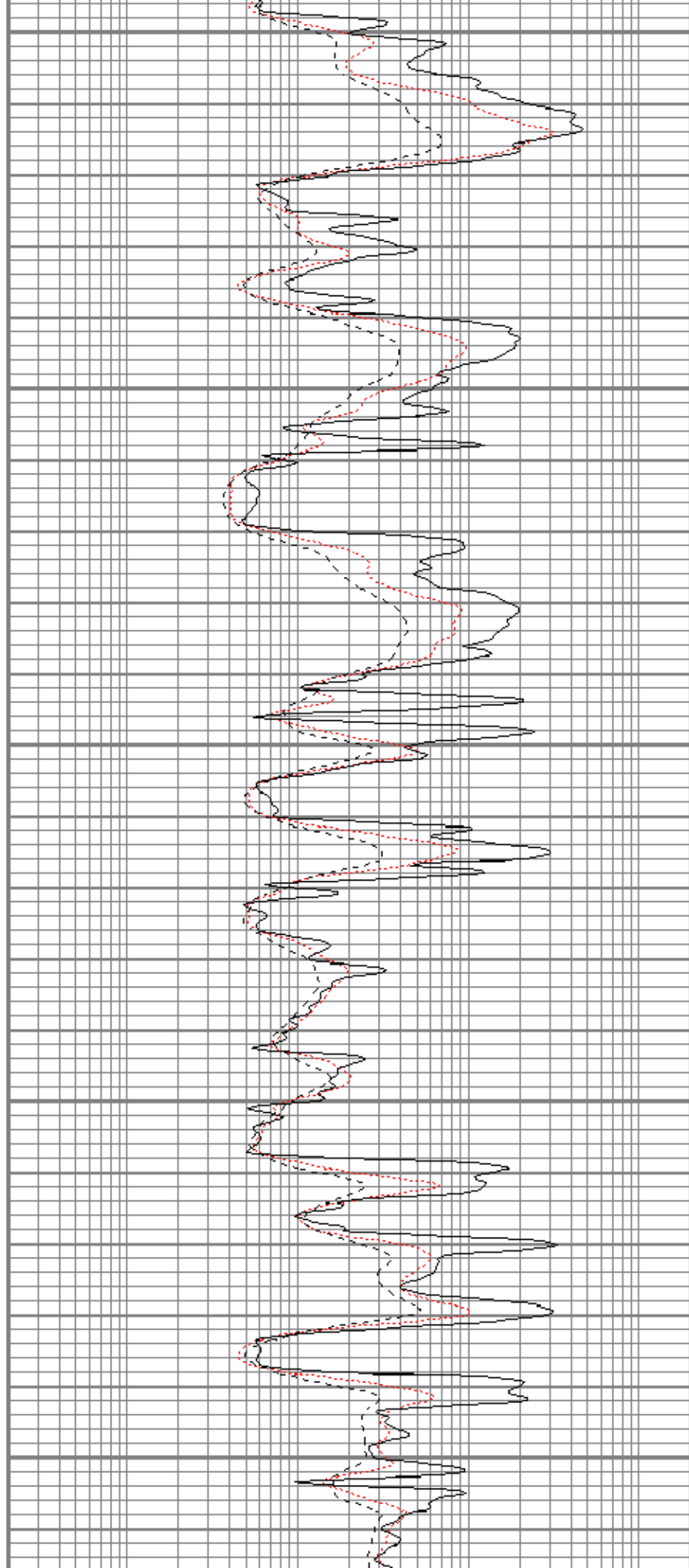
3950

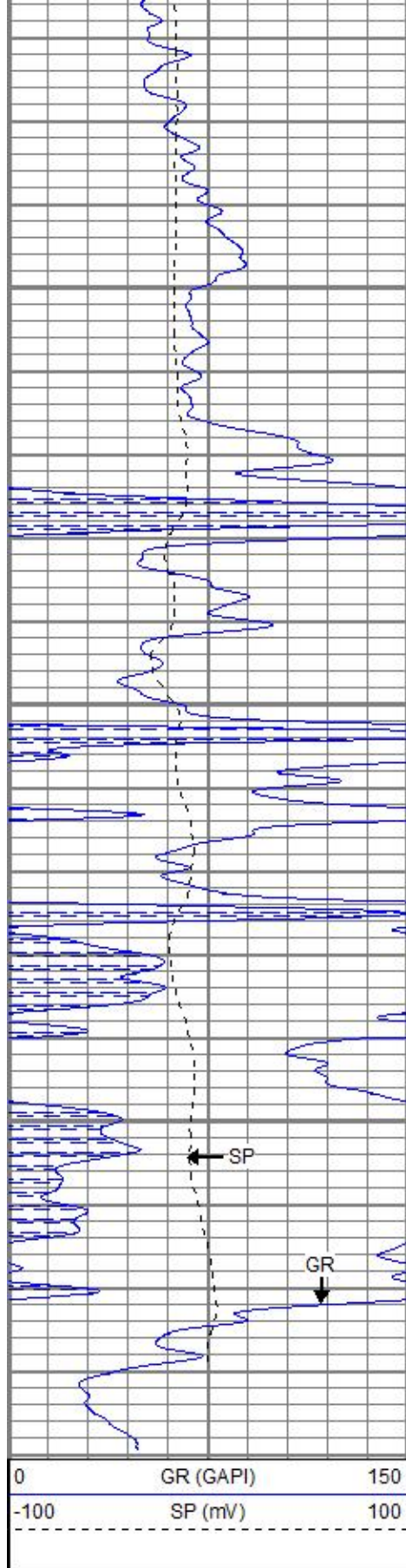
4000

4050

4100

4150





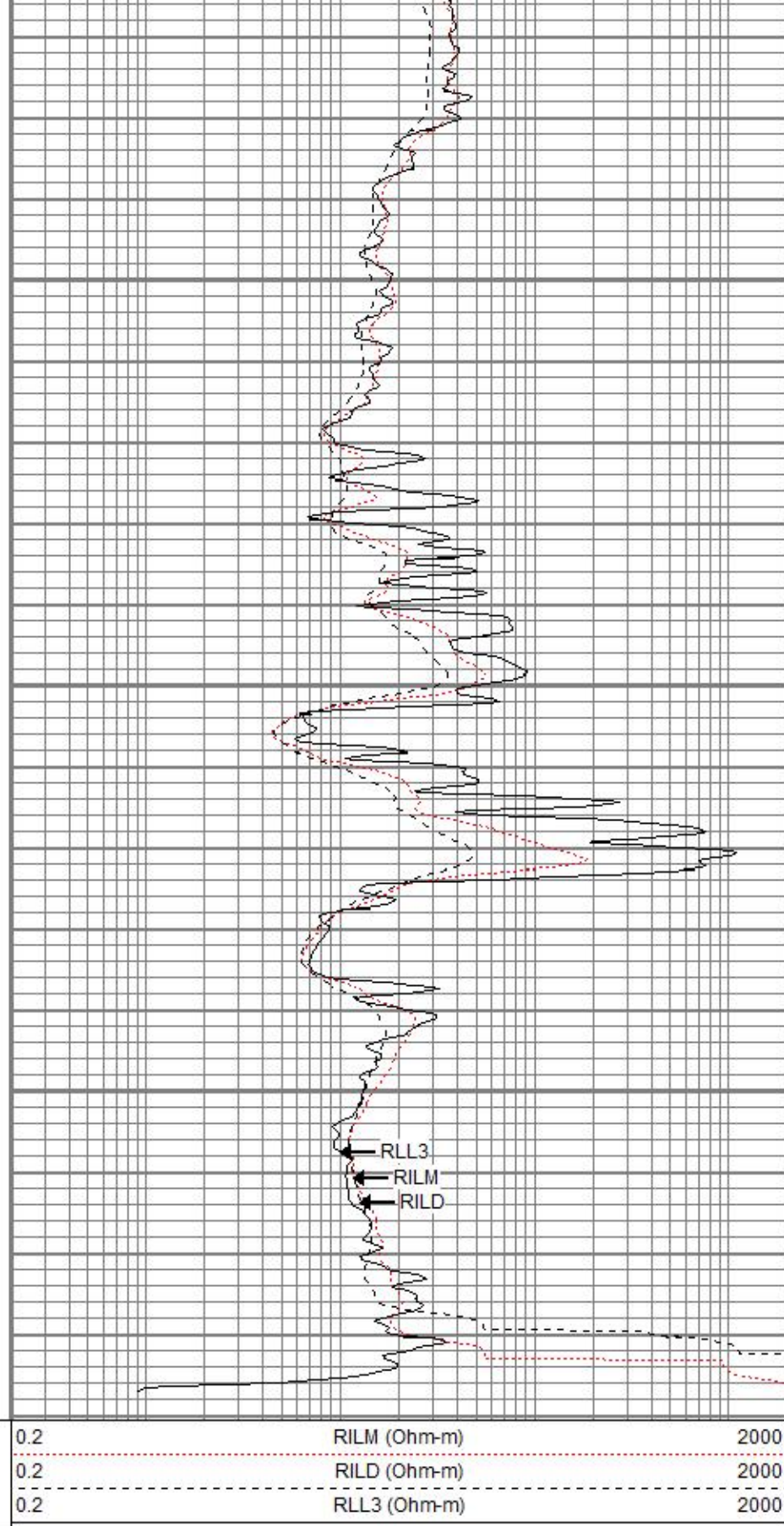
4200

4250

4300

SP

GR



RLL3

RILM

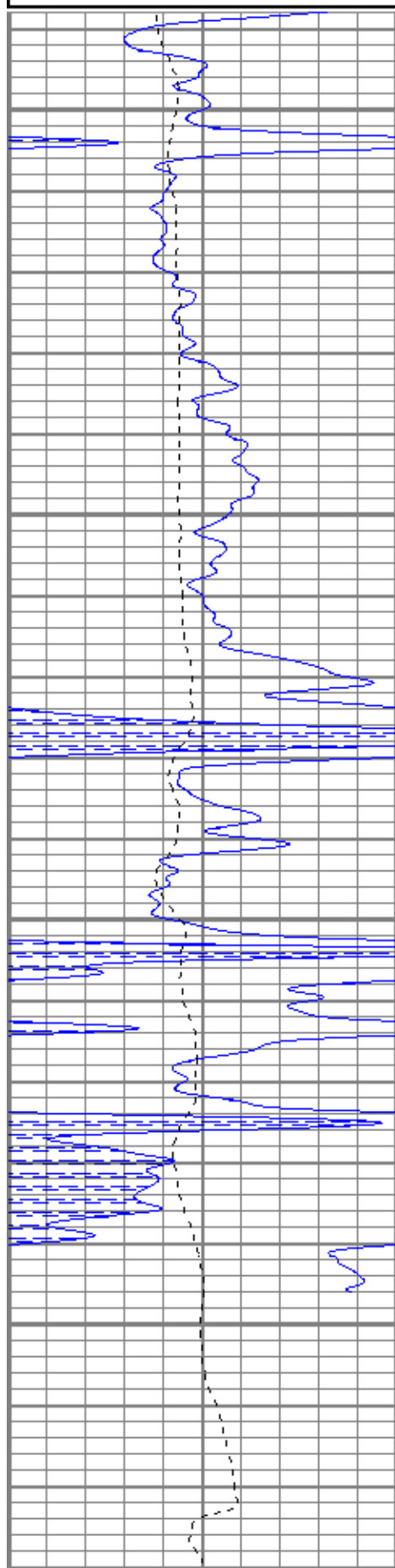
RILD



REPEAT SECTION

0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000

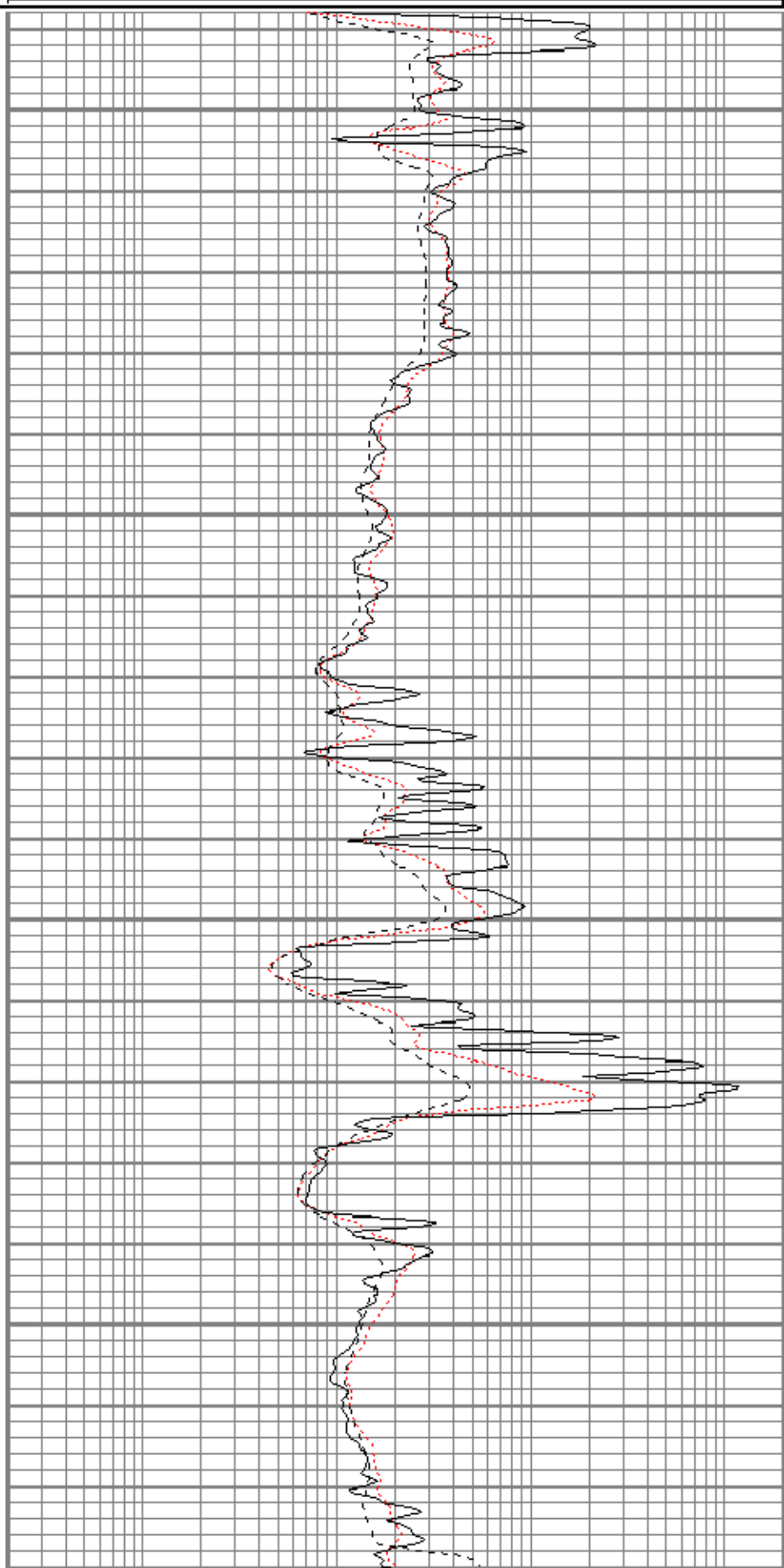


4150

4200

4250

4300



0	GR (GAPI)	150	0.2	RILM (Ohm-m)	2000
-100	SP (mV)	100	0.2	RILD (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

Calibration Report													
Database File	tcmcjunkin#1-27oh.db												
Dataset Pathname	pass2												
Dataset Creation	Tue Aug 22 23:02:55 2017												
Dual Induction Calibration Report													
Serial-Model:				5375-G									
Surface Cal Performed:				Tue Aug 15 10:21:23 2017									
Downhole Cal Performed:				Tue Aug 15 10:22:14 2017									
After Survey Verification Performed:				Tue Aug 15 10:22:14 2017									
Surface Calibration													
		Readings						References				Results	
Loop:	Air		Loop		Air		Loop			m		b	
Deep	-0.003		0.635	V	0.000		350.000	mmho/m		548.445		1.715	
Medium	-0.001		0.717	V	0.000		400.000	mmho/m		556.583		0.684	
Internal:	Zero		Cal		Zero		Cal			m		b	
Deep	-0.003		0.635	V	0.000		350.000	mmho/m		548.268		1.663	
Medium	-0.001		0.718	V	0.000		400.000	mmho/m		556.234		0.694	
Downhole Calibration													
		Readings						References				Results	
Internal:	Zero		Cal		Zero		Cal			m		b	
Deep	0.131		349.928	mmho/m	0.052		350.165	mmho/m		1.001		-0.079	
Medium	-0.084		400.178	mmho/m	-0.010		400.241	mmho/m		1.000		0.073	
Shallow	2.425		0.005	V	500.000		2.000	Ohm-m		205.838		0.894	
After Survey Verification													
		Readings						Targets				Results	
Internal:	Zero		Cal		Zero		Cal			m'		b'	
Deep	0.000		0.000	mmho/m	0.131		349.928	mmho/m		1.001		-0.079	
Medium	0.000		0.000	mmho/m	-0.084		400.178	mmho/m		1.000		0.073	
Shallow	0.000		0.000	Ohm-m	500.000		2.000	Ohm-m		1.000		0.000	

Neutron Calibration Report									
Serial Number:				Admyr					
Tool Model:				G					
Performed:				Thu Mar 09 07:56:12 2017					
Calibrator Value:				1	NAPI				
Calibrator Reading:				1	cps				
Sensitivity:				1	NAPI/cps				

Temperature Calibration Report									
Serial Number:				WithOutMC					
Tool Model:				WOMC					

Performed:	(Not Performed)				
	Reference		Reading		
Low Reference:	0.00	degF	0.00	degF	
High Reference:	1.00	degF	1.00	degF	
Gain:	1.00				
Offset:	0.00				
Delta Spacing	1				

Inclinometer Calibration Report					
Performed:	Mon Aug 07 09:10:34 2017				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Gamma Ray Calibration Report			
Serial Number:	WithOutMC		
Tool Model:	WOMC		
Performed:	(Not Performed)		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	1.0000	GAPI/cps	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.07		CHD-STD	0.50	1.69	1.00
ACCY	38.91		ADT-WOMC (WithOutMC)	4.58	3.50	120.00
ACCX	38.91		Telemetry Without Mud Cell			
SSTAT	38.49					
PSTAT	37.66					
ASTAT	37.66					
GRD	36.82		NEU-G (Admyr)	5.65	3.50	85.00
TEMP	36.82		Gearhart Epithermal			
NEU	31.82					
LStat	24.30		ADT1LITH-A (1)	9.29	3.50	240.00
LS8	23.64		Admyr Litho Density Tool			
LS7	23.64					
LS6	23.64					
LS5	23.64					
LS4	23.64					
LS3	23.64					
LS2	23.64					

