



DUAL INDUCTION
RESISTIVITY LOG

Company SM OIL & GAS, INC.

Well FULSOM "B" #5

Field LENITON

County CHAUTAUQUA State KANSAS

Location: SW SE NW NE
1000'FNL & 1800'FEL

SEC: 17 TWP: 33S RGE: 10E API #: 15-019-27513

Recorded By : J. FISHER

Witnessed By : SKYLAR MILLER

Date DECEMBER 4, 2015

Run Number ONE Elevation

Depth Driller 1602' K.B. :

Depth Logger 1598' D.F. :

Bottom Logged Interval 1597' G.L. : 1030'

Top Log Interval 00 Other Services

Casing Driller 8.625" @ 48'

Casing Logger 8.625" @ 48' DUCP

Bit Size 6.75"

Type Fluid in Hole FORMATION

Density / Viscosity NA

pH / Fluid Loss NA

Source of Sample NA

Rm @ Meas. Temp NA

Rmf @ Meas. Temp NA

Rmc @ Meas. Temp NA

Source of Rmf / Rmc NA

Rm @ BHT NA

Equipment Number 47

Location HOMINY

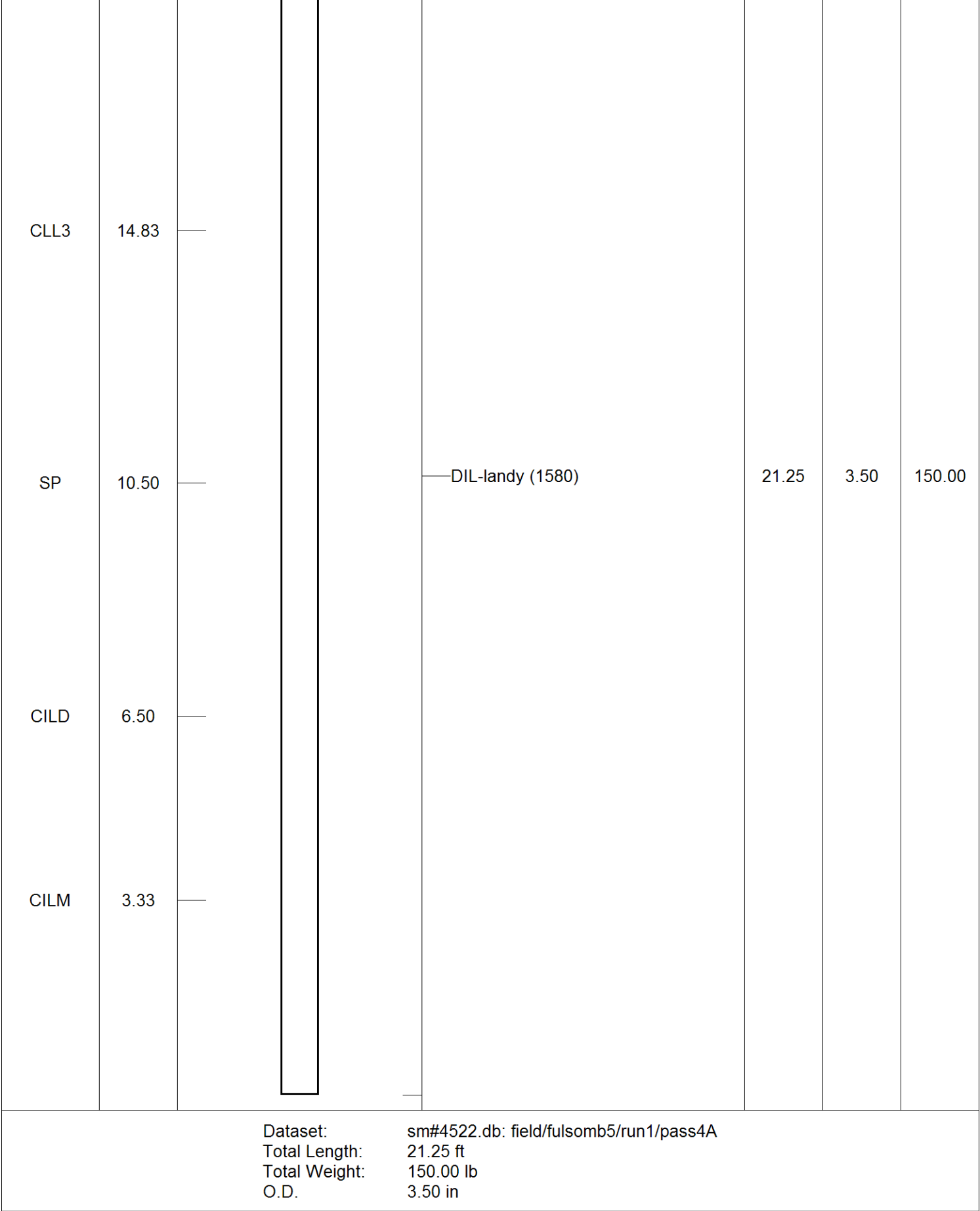
<<< Fold Here >>>

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.

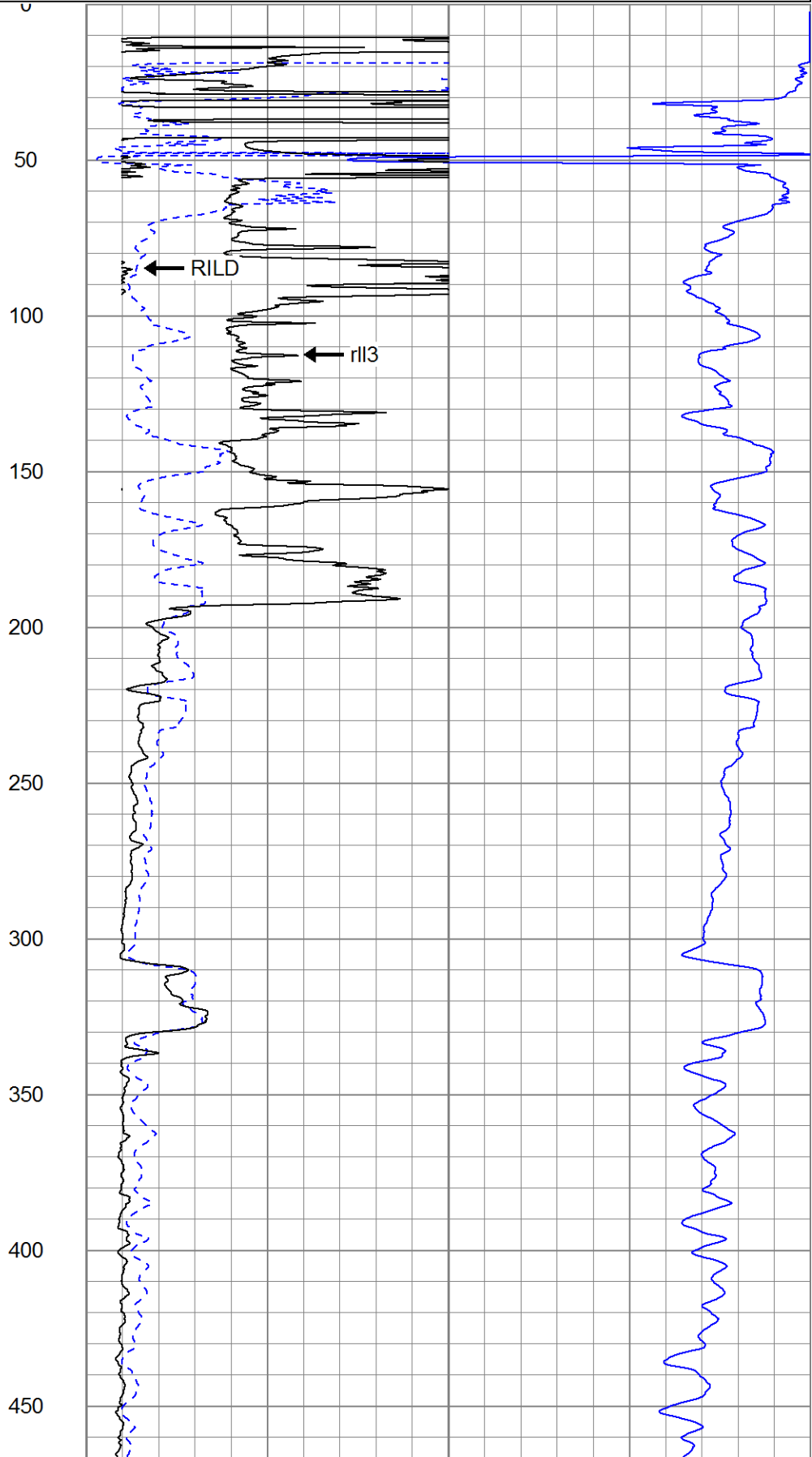
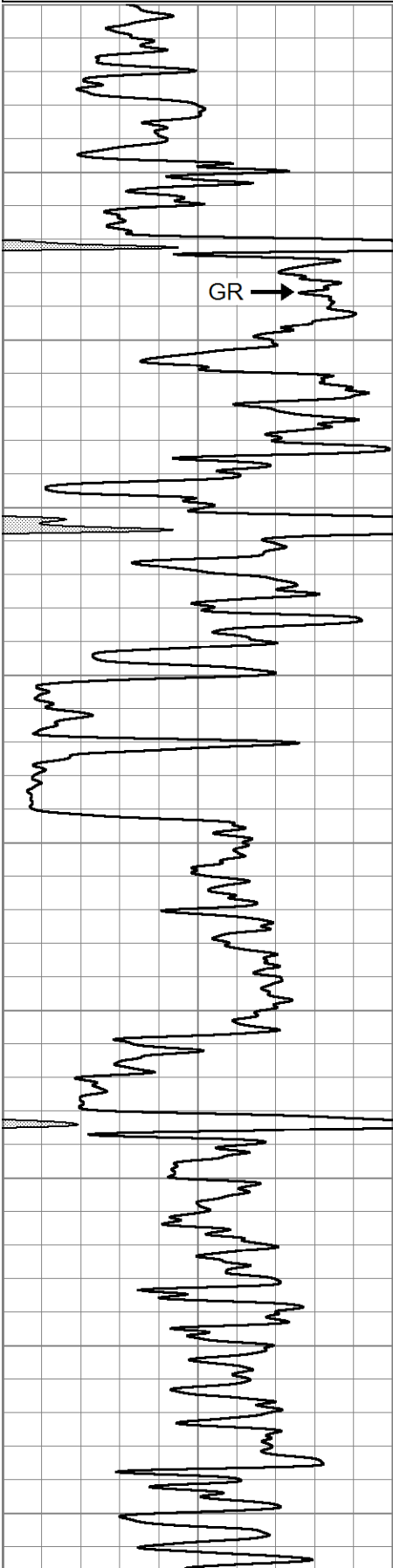
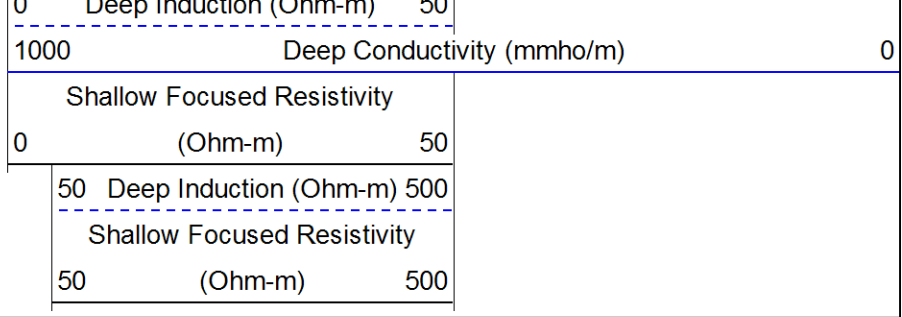
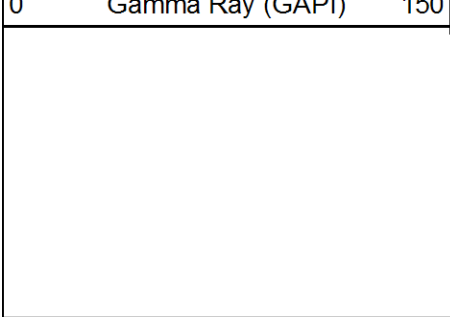
Comments

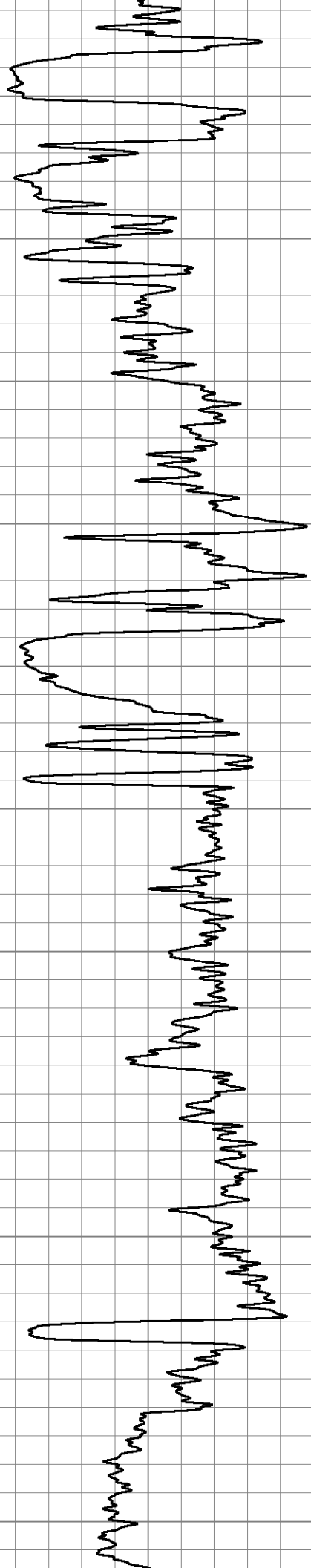
AIR DRILLED HOLE NO MUD WAS USED
SP AND MEDIUM CURVE NOT PRESENTED DUE TO WELLBORE FLUID
BOREHOLE AND ANNULAR VOLUME MARKS PRESENTED ON DENSITY PLOT
ANNULAR VOLUME CALCULATED FOR 4-1/2" CASING
THANK YOU FOR USING FWS, INC. HOMINY, OKLAHOMA. (918) 885 6564

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)



Database File: sm#4522.db
Dataset Pathname: fulsomb5/run1/pass4A
Presentation Format: siln_2
Dataset Creation: Fri Dec 04 16:22:23 2015
Charted by: Depth in Feet scaled 1:600





500

550

600

650

700

750

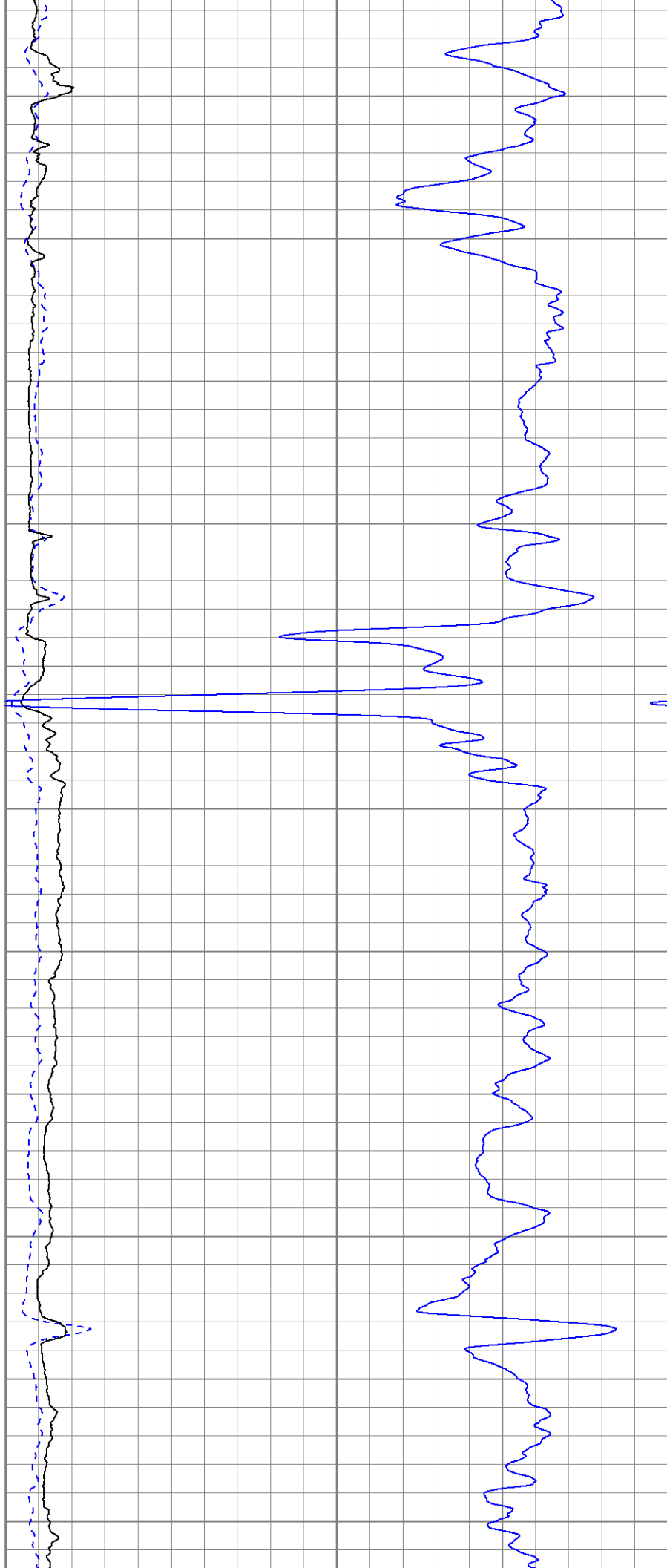
800

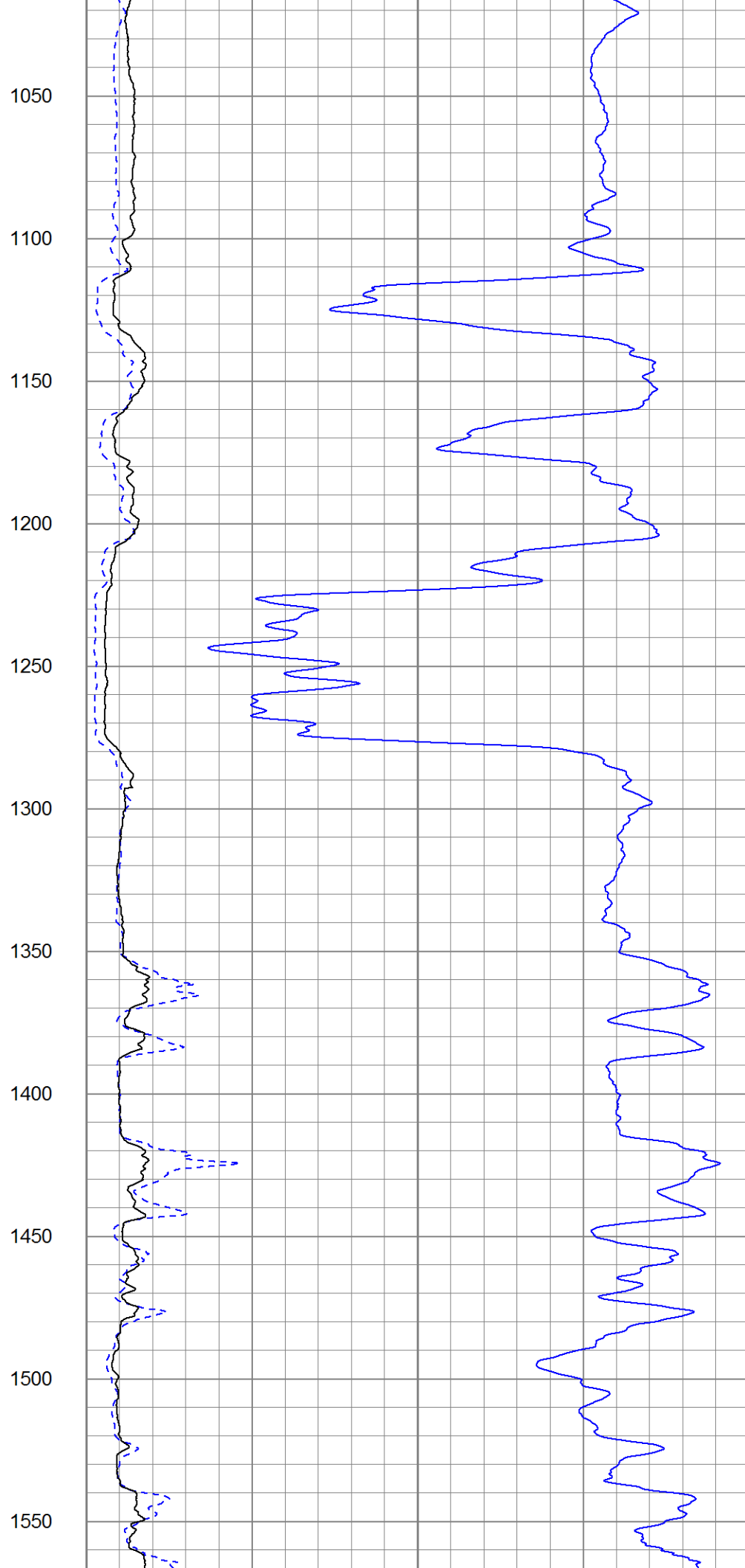
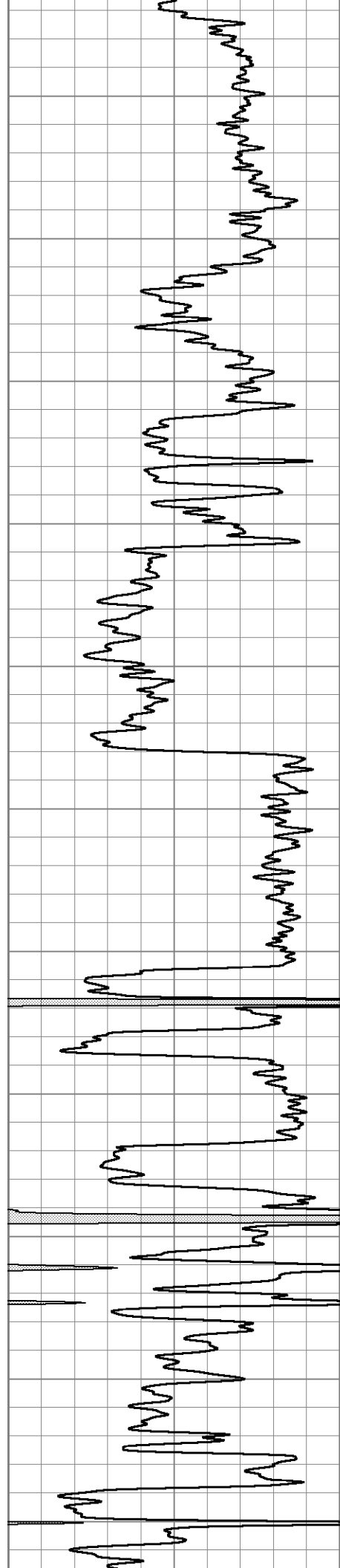
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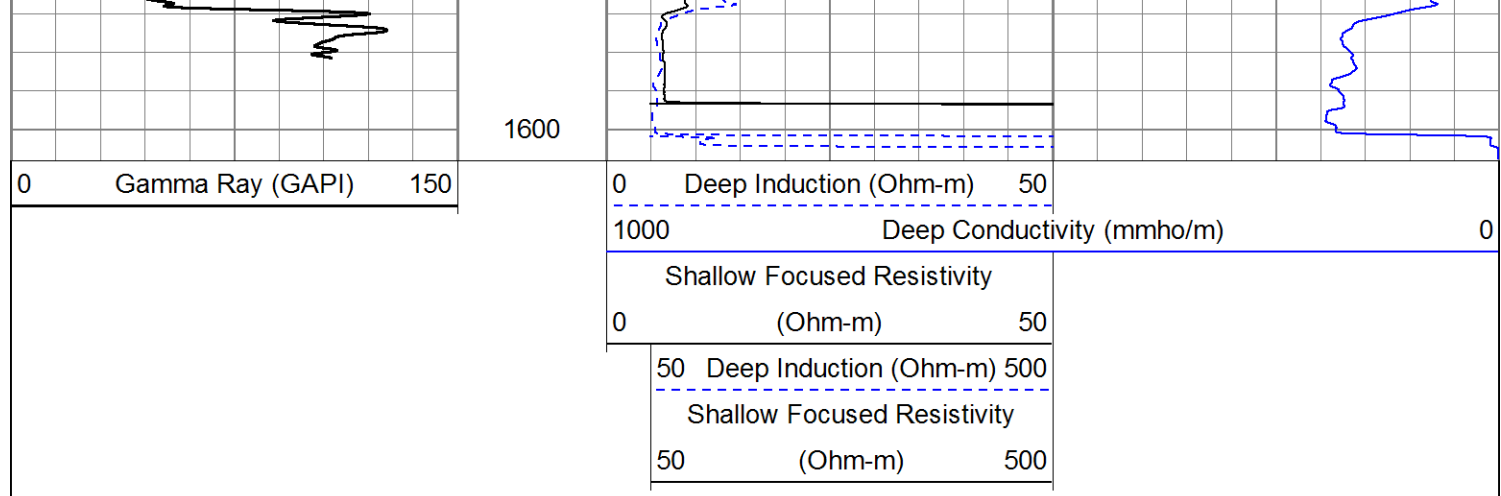
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950

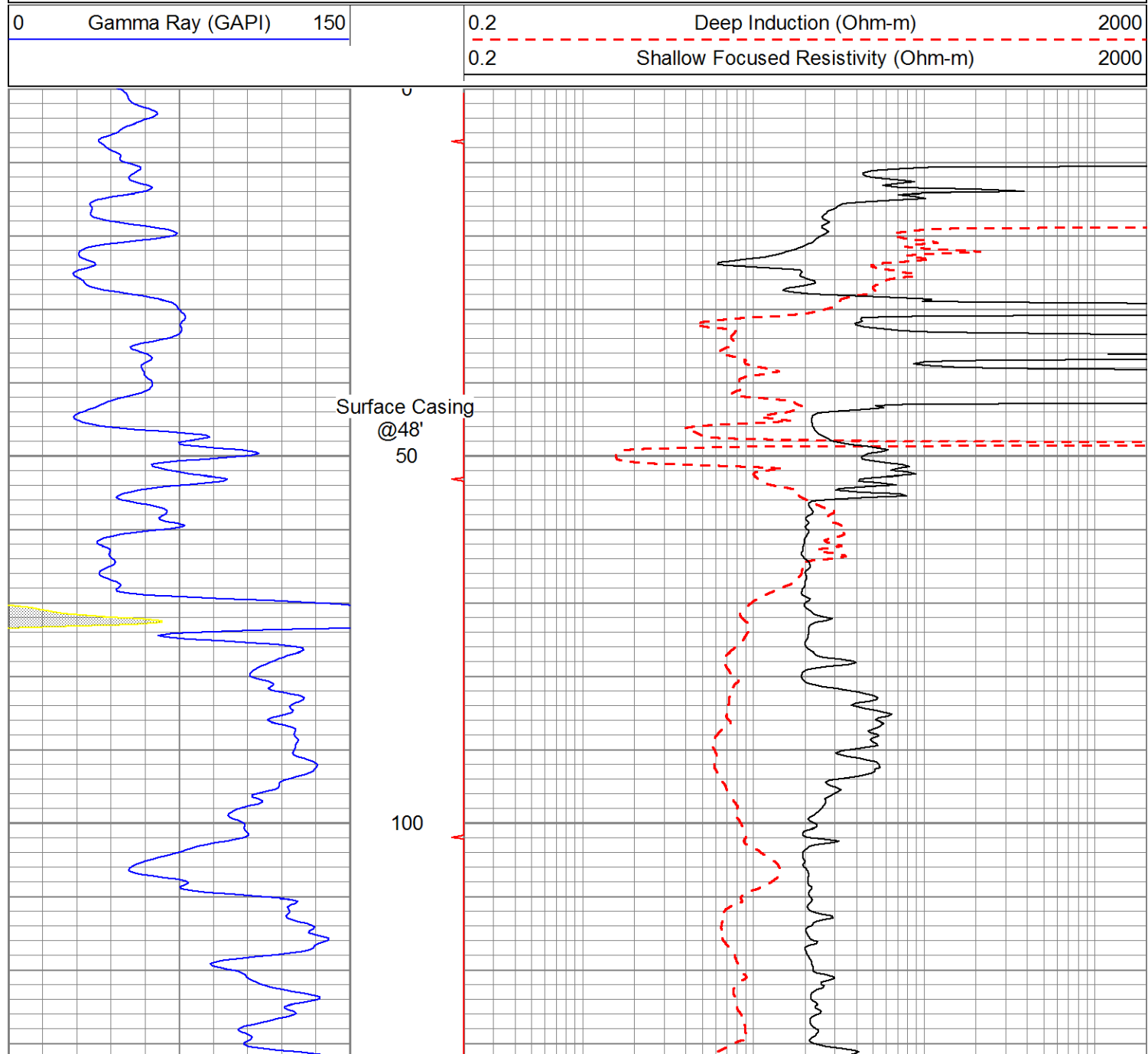
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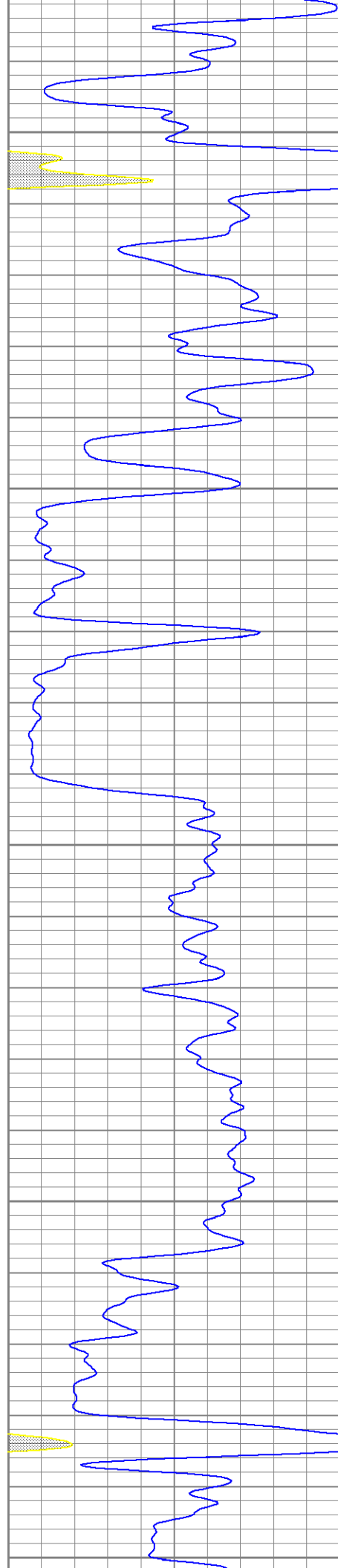






Database File: sm#4522.db
Dataset Pathname: fulsomb5/run1/pass4A
Presentation Format: dil
Dataset Creation: Fri Dec 04 16:22:23 2015
Charted by: Depth in Feet scaled 1:240





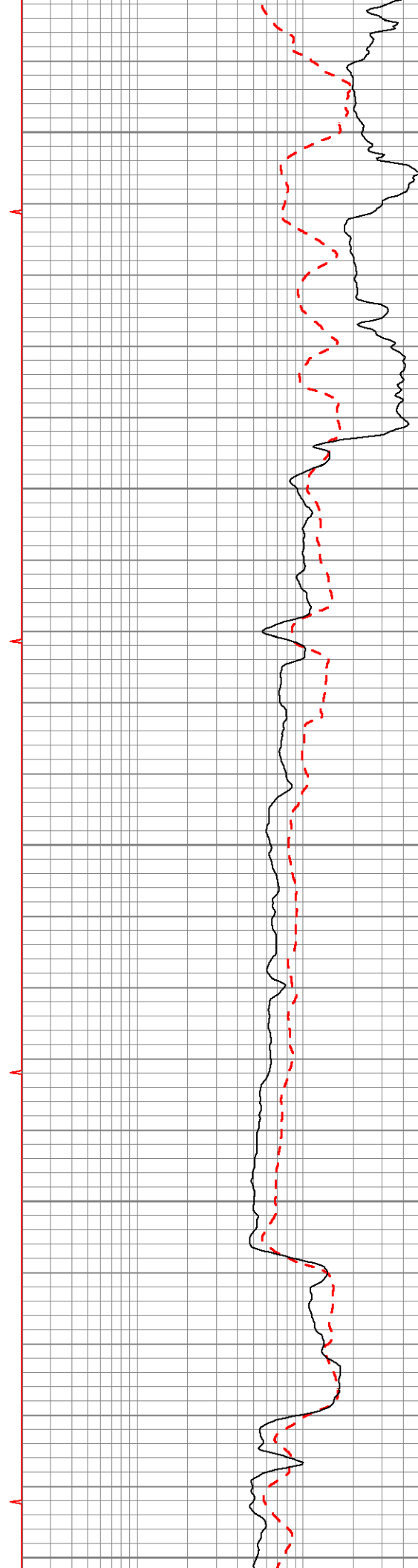
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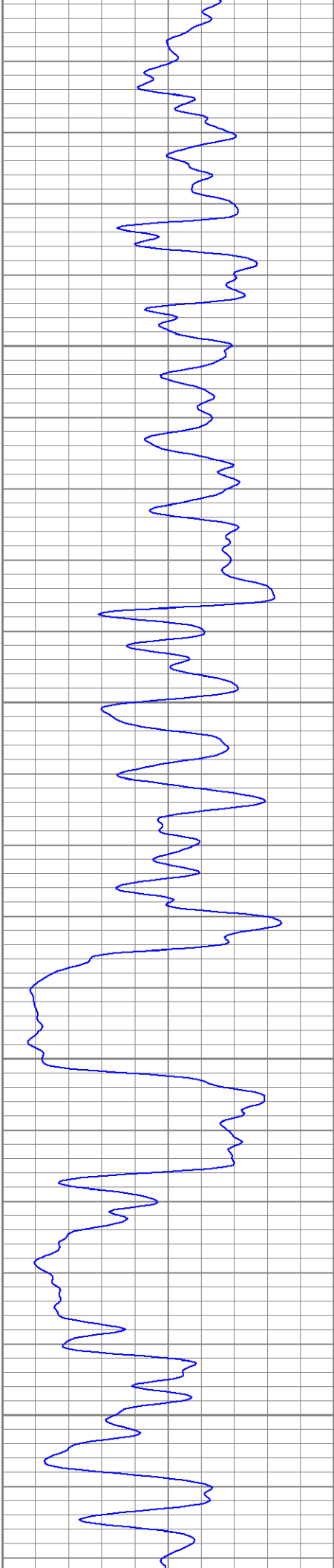
200

250

300

350



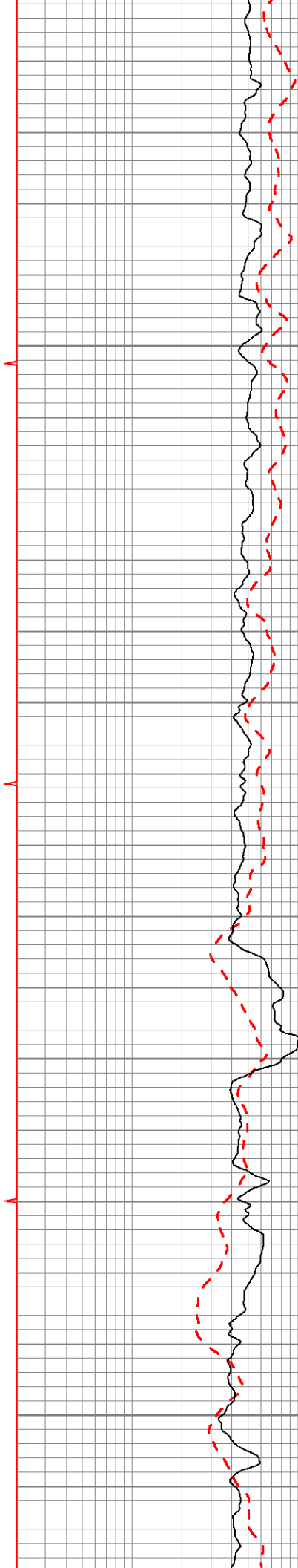


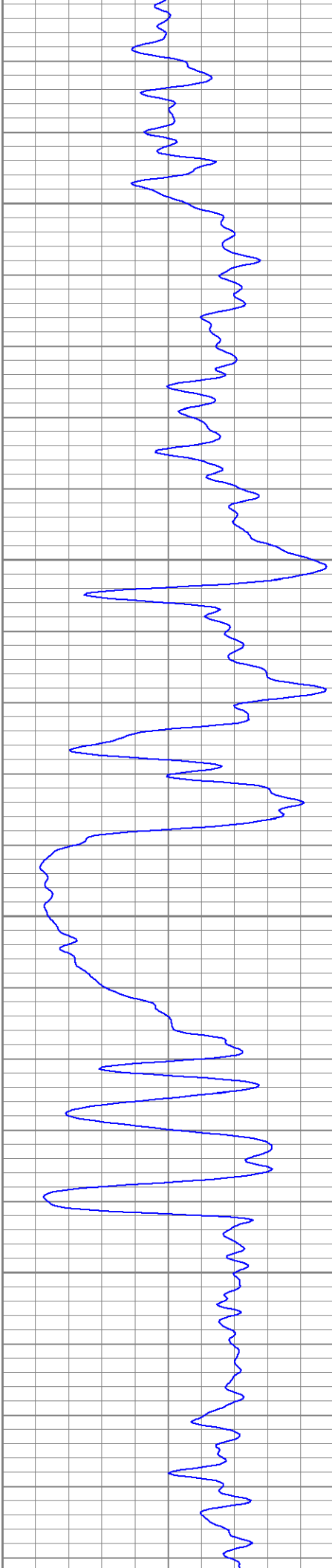
400

450

500

550



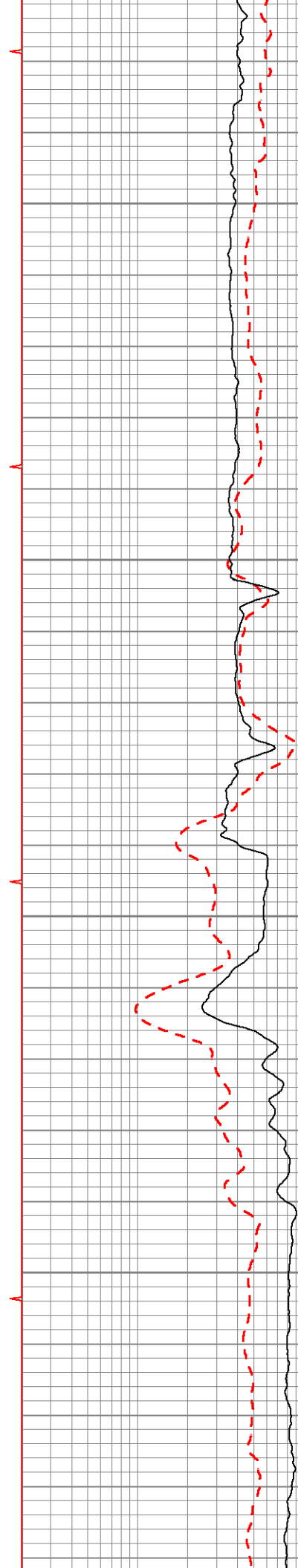


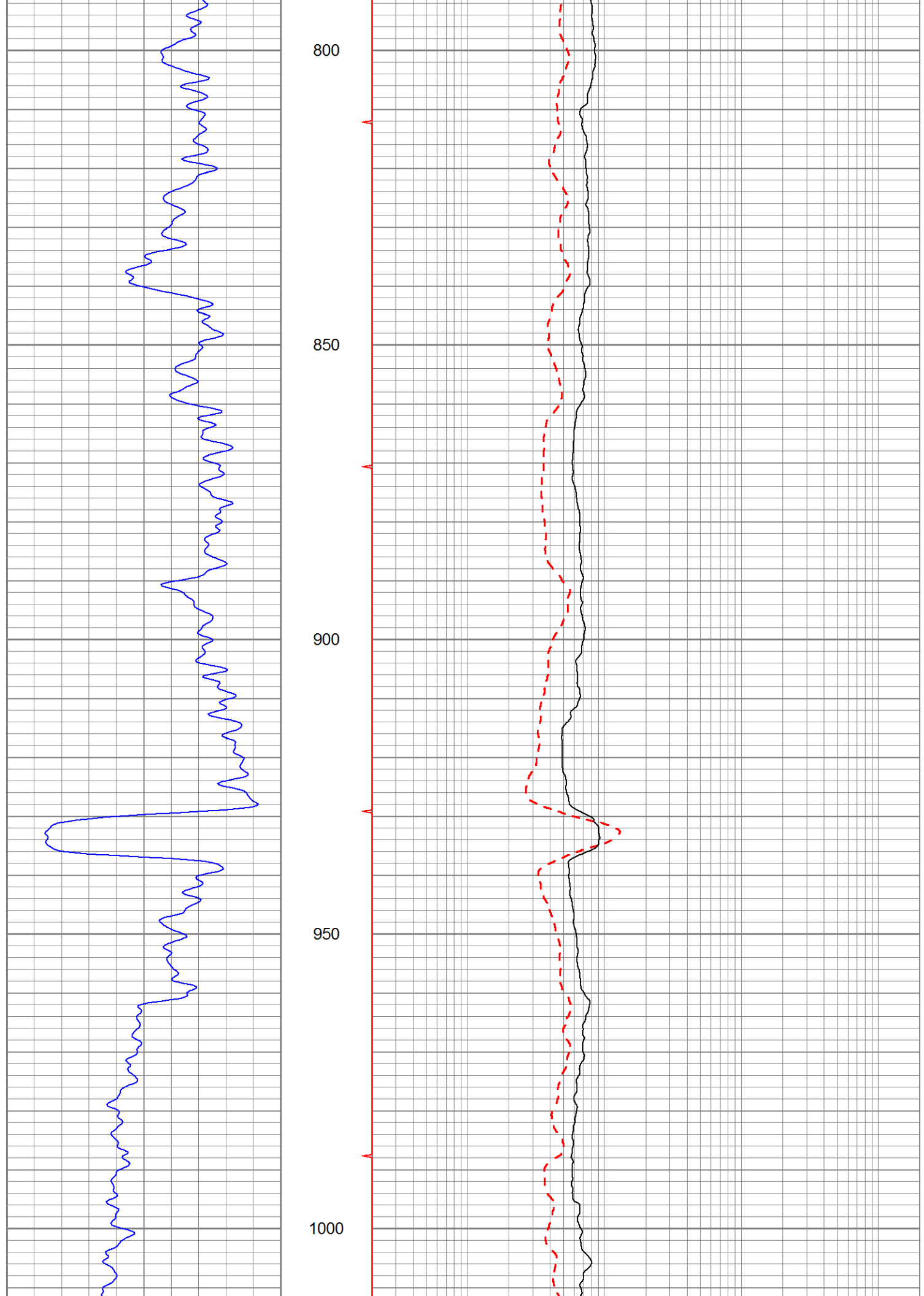
600

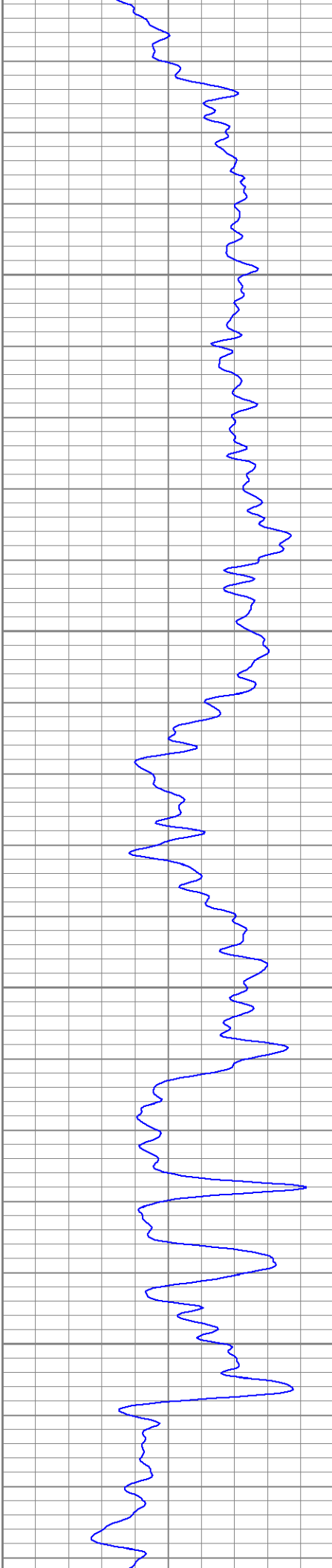
650

700

750





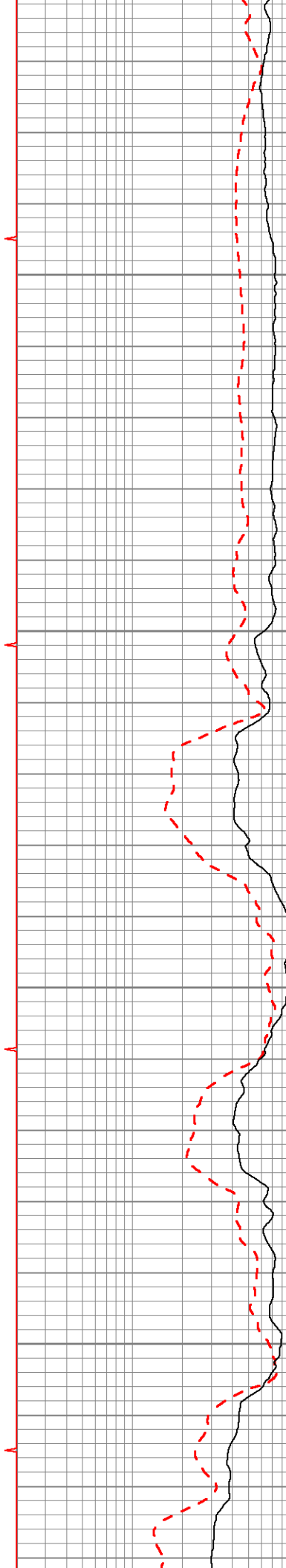


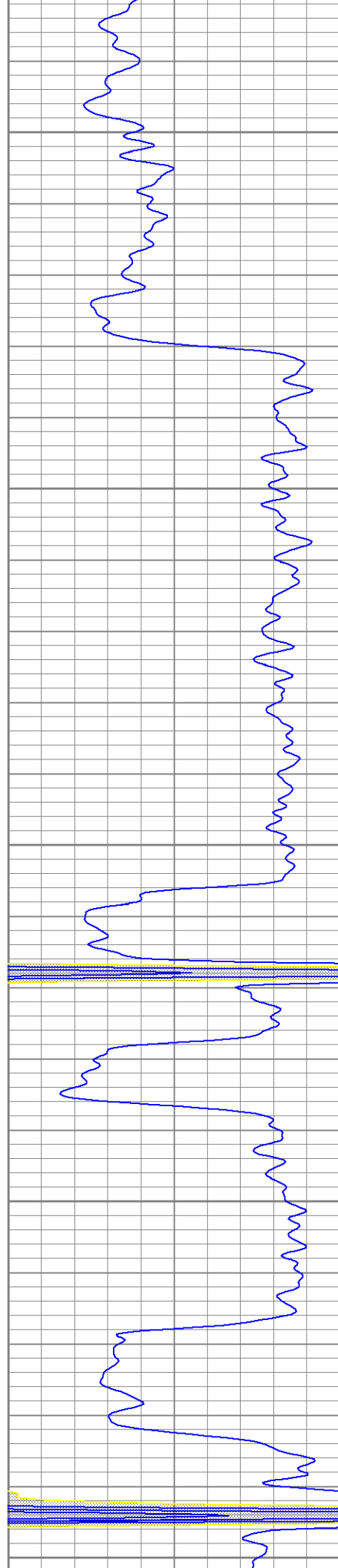
1050

1100

1150

1200





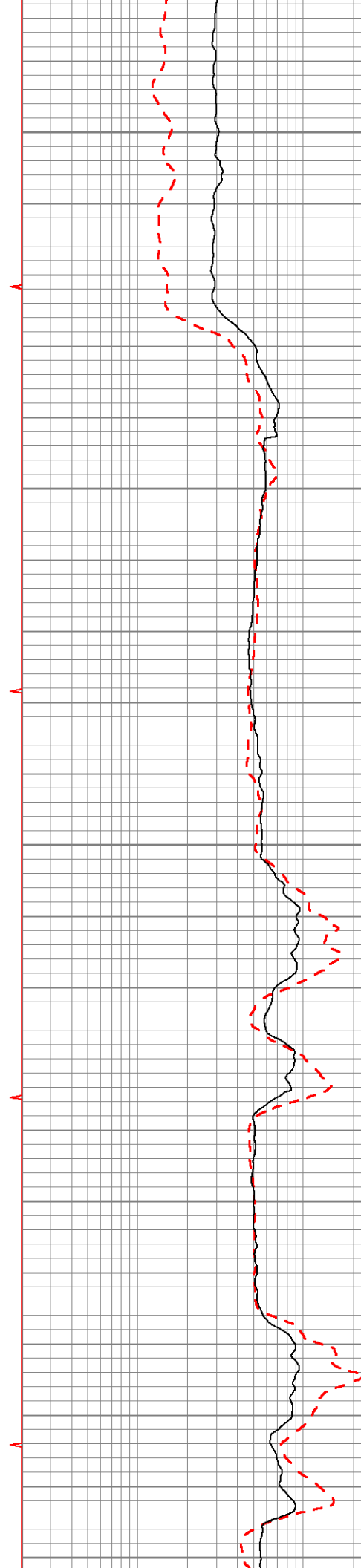
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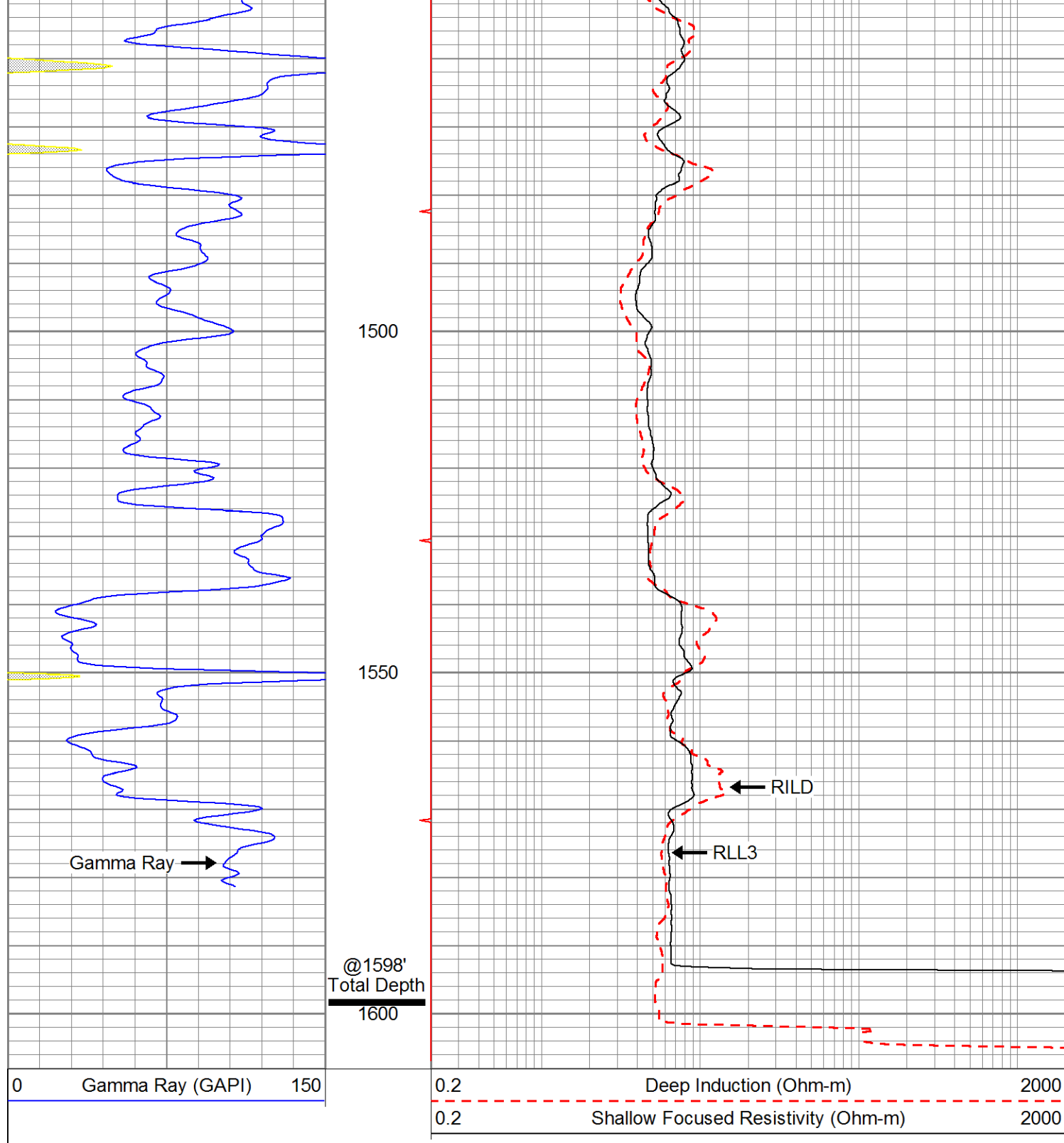
1300

1350

1400

1450





Calibration Report

Database File: sm#4522.db
Dataset Pathname: fulsomb5/run1/pass4A
Dataset Creation: Fri Dec 04 16:22:23 2015

Dual Induction Calibration Report

Serial-Model: 1580-landy
Surface Cal Performed: Thu Sep 10 13:41:59 2015
Downhole Cal Performed: Wed Dec 11 10:36:28 2013
After Survey Verification Performed: Wed Dec 11 10:36:43 2013

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.081	1.752	V	0.000	300.000	mmho/m	1750.000	-14.461
Medium	0.336	2.157	V	0.000	464.000	mmho/m	13500.000	-85.666
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.122	0.123	V	0.000	400.000	mmho/m	727273.000	-88862.500
Medium	0.051	0.051	V	0.000	464.000	mmho/m	10866500.000	-558845.000
Downhole Calibration								
Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	1.000	mmho/m	-0.220	-0.133	mmho/m	0.087	-0.220
Medium	0.000	1.000	mmho/m	-0.081	-0.063	mmho/m	0.018	-0.081
Shallow	0.075	3.200		2.400	400.000	mmho/m	240.000	-8.000
After Survey Verification								
Readings				Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	1.000	mmho/m	0.000	1.000	mmho/m	0.087	-0.220
Medium	0.000	1.000	mmho/m	0.000	1.000	mmho/m	0.018	-0.081
Shallow	0.000	1.000	mmho/m	0.000	1.000	mmho/m	1.000	0.000