

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1348051
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1348051

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

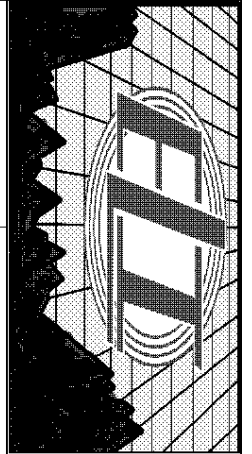
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Becker Oil Corporation
Well Name	OTTLEY 2
Doc ID	1348051

Tops

Name	Top	Datum
Stone Corral Anhydrite	2457	(+443)
Heebner Shale	3917	(-1017)
Lansing-Kansas City	3955	(-1055)
Base Kansas City	4225	(-1325)
Pawnee	4348	(-1448)
Cherokee Shale	4444	(-1544)
. Base Penn. Ls.	4499	(-1599)
Miss	4530	(-1630)
TD	4600	(-1700)



DUAL INDUCTION LOG

Company BECKER OIL CORPORATION
 Well OTTLEY #2
 Field CAMPUS SIDING NORTH
 County THOMAS
 State KANSAS

Company BECKER OIL CORPORATION
 Well OTTLEY #2
 Field CAMPUS SIDING NORTH
 County THOMAS State KANSAS

Location: API # : 15-193-20974-0000
 1750' FNL & 890' FWL
 SW - NE - SW - NW
 SEC 36 TWP 10S RGE 31W
 Permanent Datum GROUND LEVEL Elevation 2892
 Log Measured From KELLY BUSHING 8' A.G.L.
 Drilling Measured From KELLY BUSHING
 Other Services CDL/CNL/PE MEL
 Elevation K.B. 2900 D.F. 2898 G.L. 2892

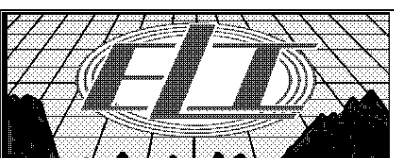
Date	10/20/16
Run Number	ONE
Depth Driller	4600
Depth Logger	4602
Bottom Logged Interval	4600
Top Log Interval	00
Casing Driller	8 5/8" @ 226'
Casing Logger	226
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/58
pH / Fluid Loss	11.0/8.0
Source of Sample	FLOWLINE
Rim @ Meas. Temp	1.30 @ 60F
Rmf @ Meas. Temp	.975 @ 60F
Rmc @ Meas. Temp	1.56 @ 60F
Source of Rmf / Rmc	MEASUREMENT
Rim @ BHT	.645 @ 121F
Time Circulation Stopped	2.5 HOURS
Time Logger on Bottom	12:15 P.M.
Maximum Recorded Temperature	121F
Equipment Number	922339
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	CLYDE BECKER

<<< 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

THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
 DIRECTIONS
 CAMPUS, KS. & I-70, 2 1/2N., E. INTO



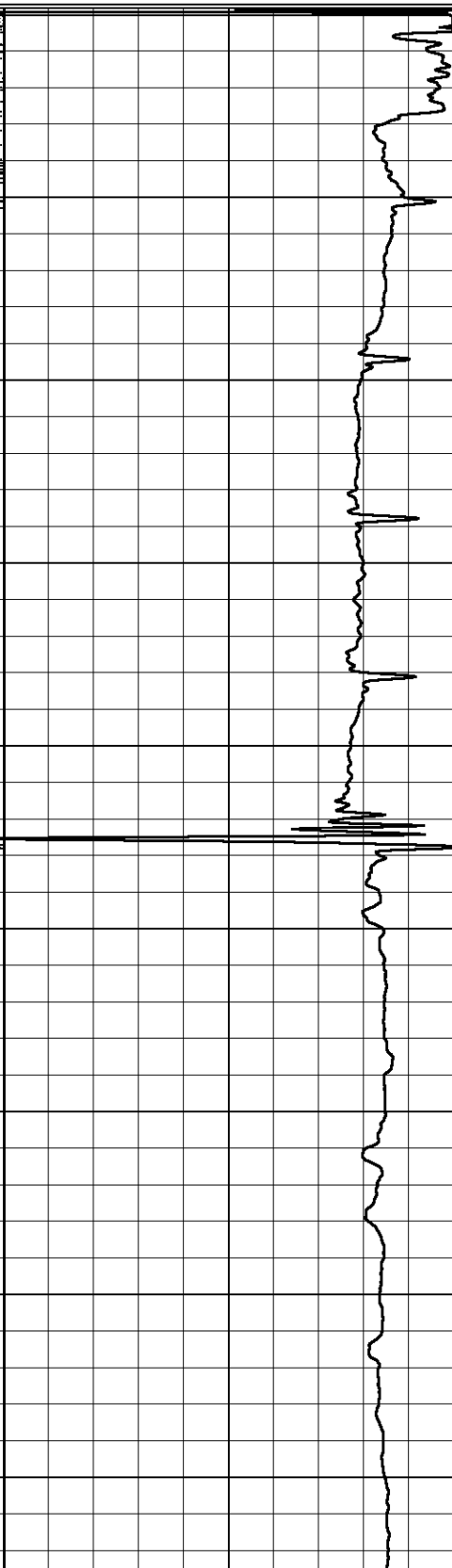
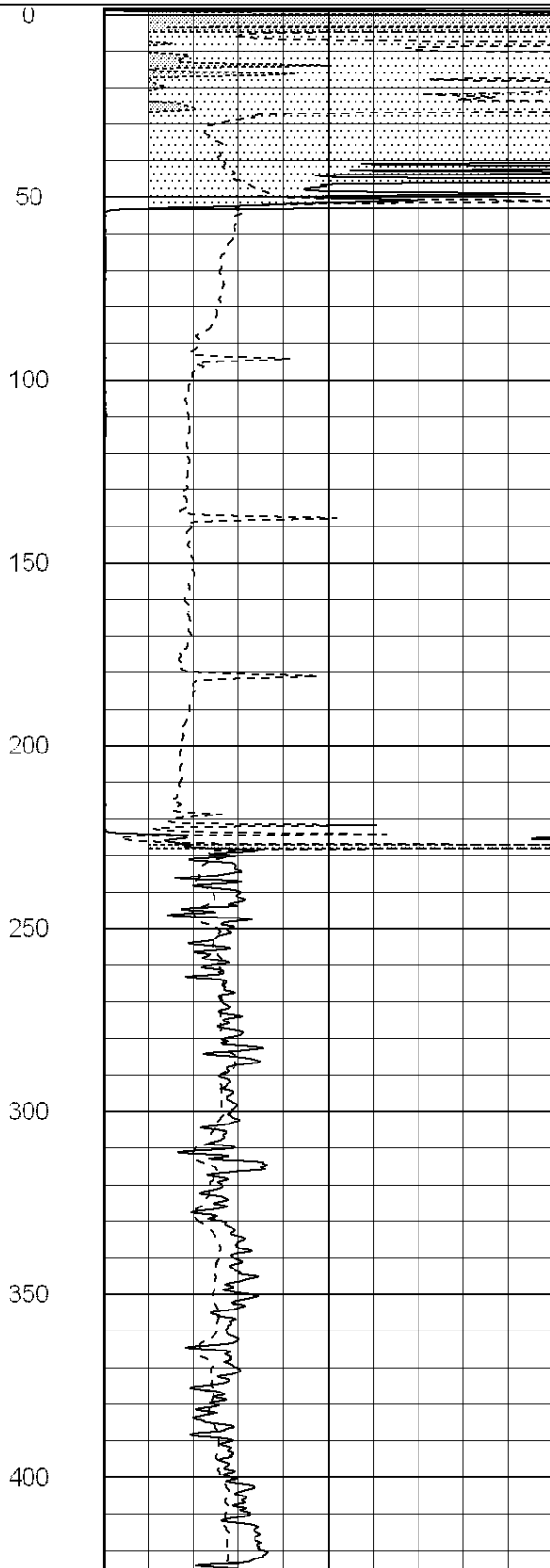
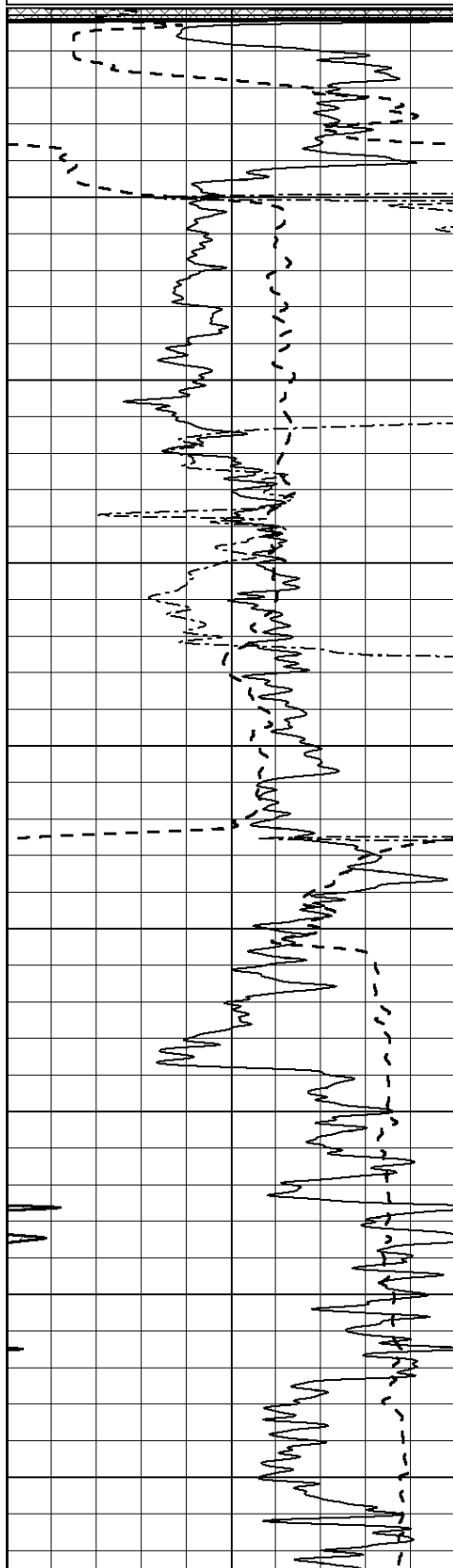
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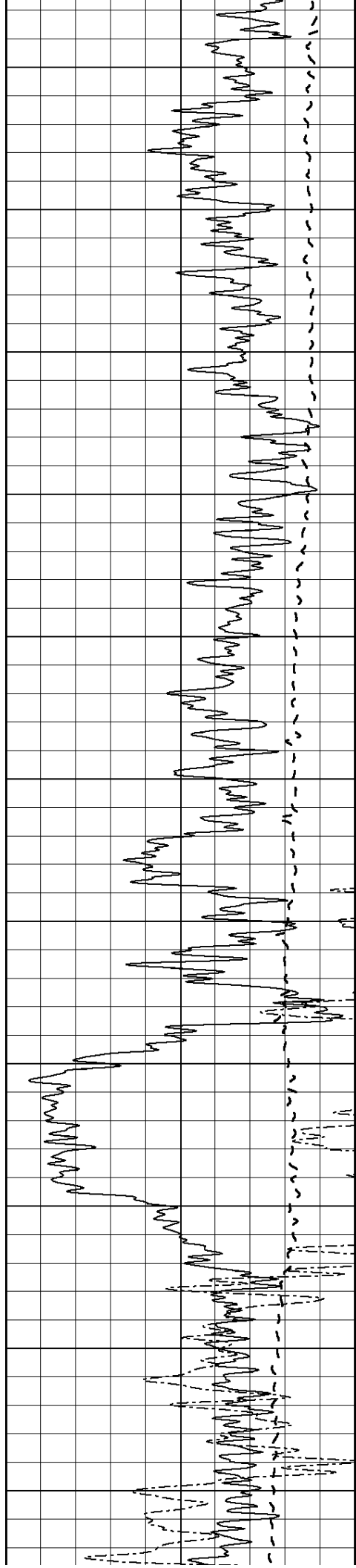
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-100	SP (mV)	100
0	RWA (Ohm-m)	1

0	RLL3 (Ohm-m)	50
0	RILD (Ohm-m)	50
1000	CILD (mmho/m)	0

50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500





450

500

550

600

650

700

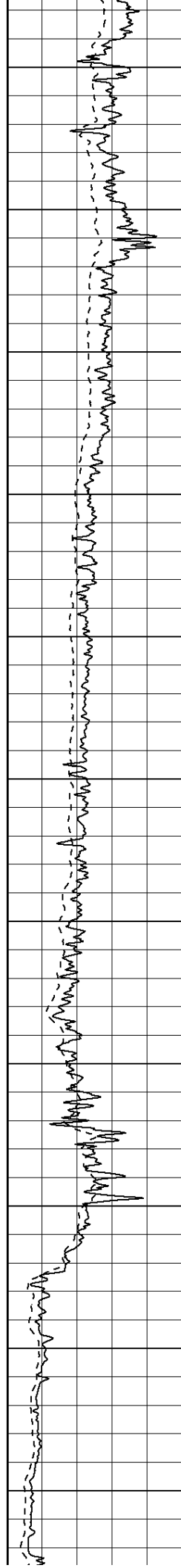
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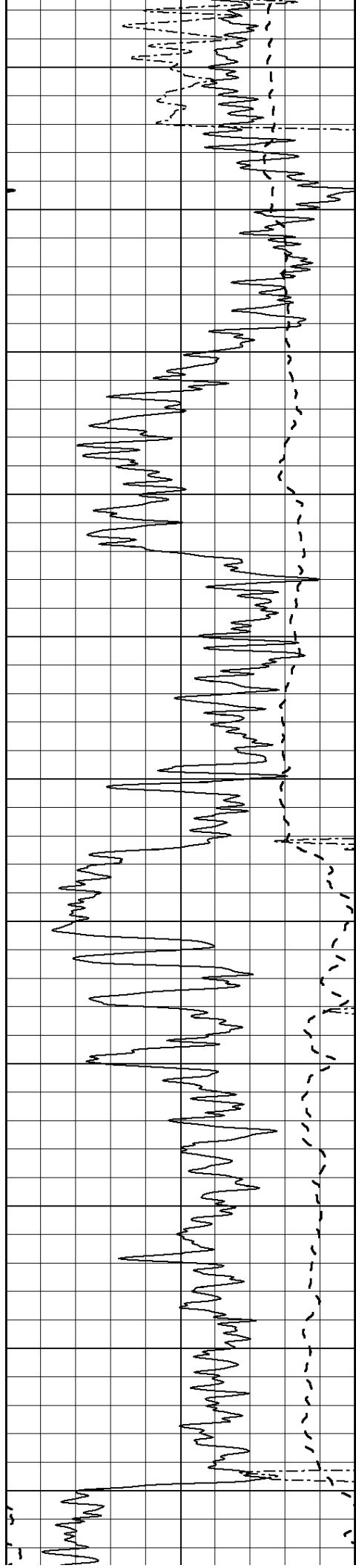
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850

900

950





1000

1050

1100

1150

1200

1250

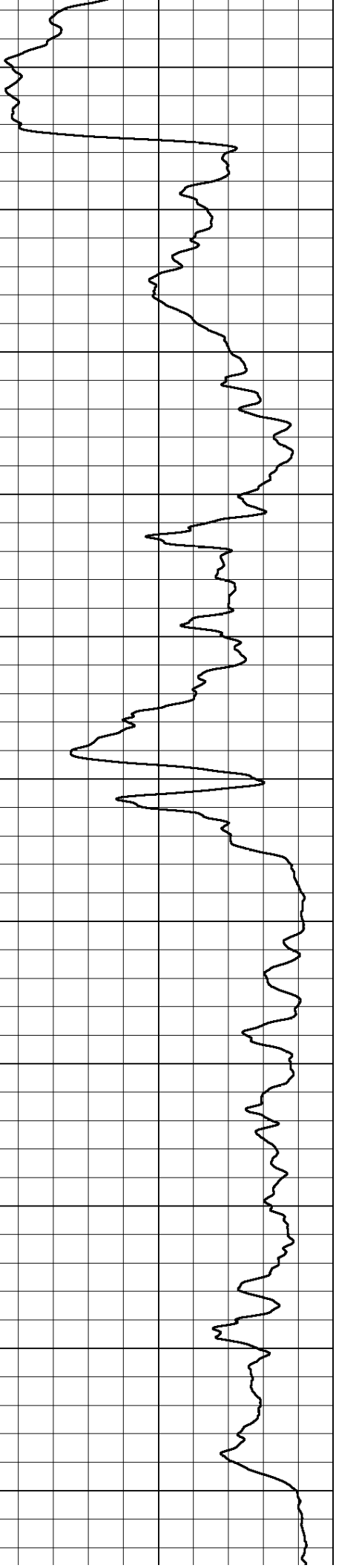
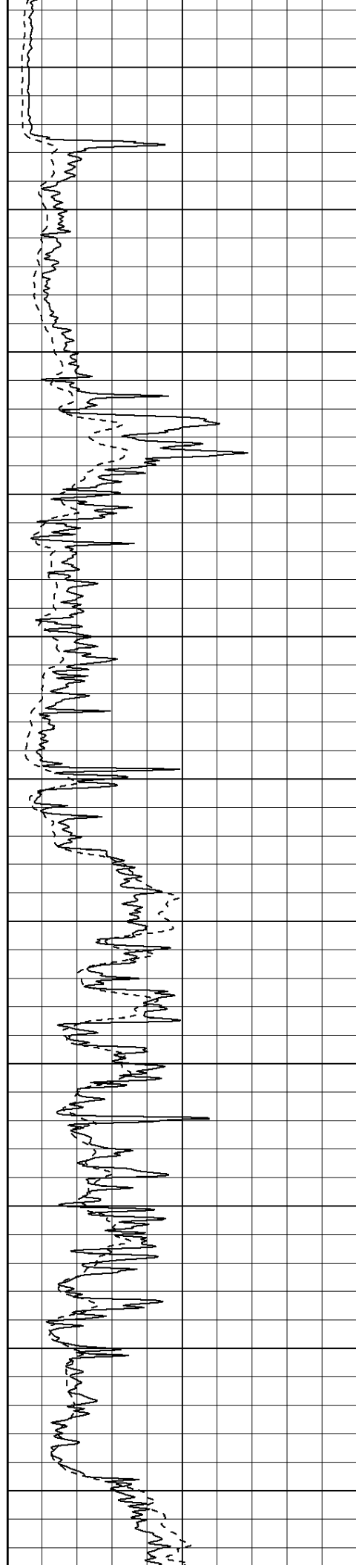
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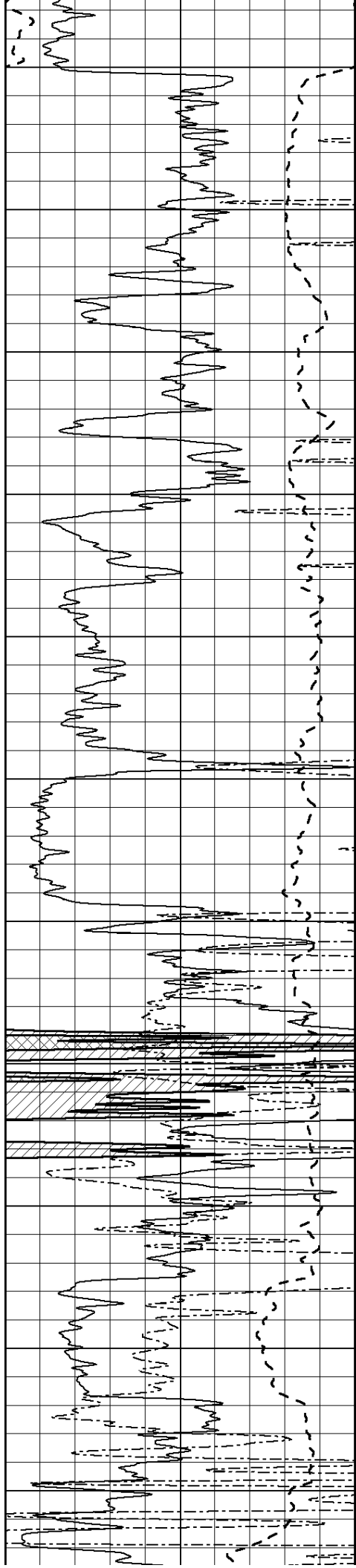
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1450

1500





1550

1600

1650

1700

1750

1800

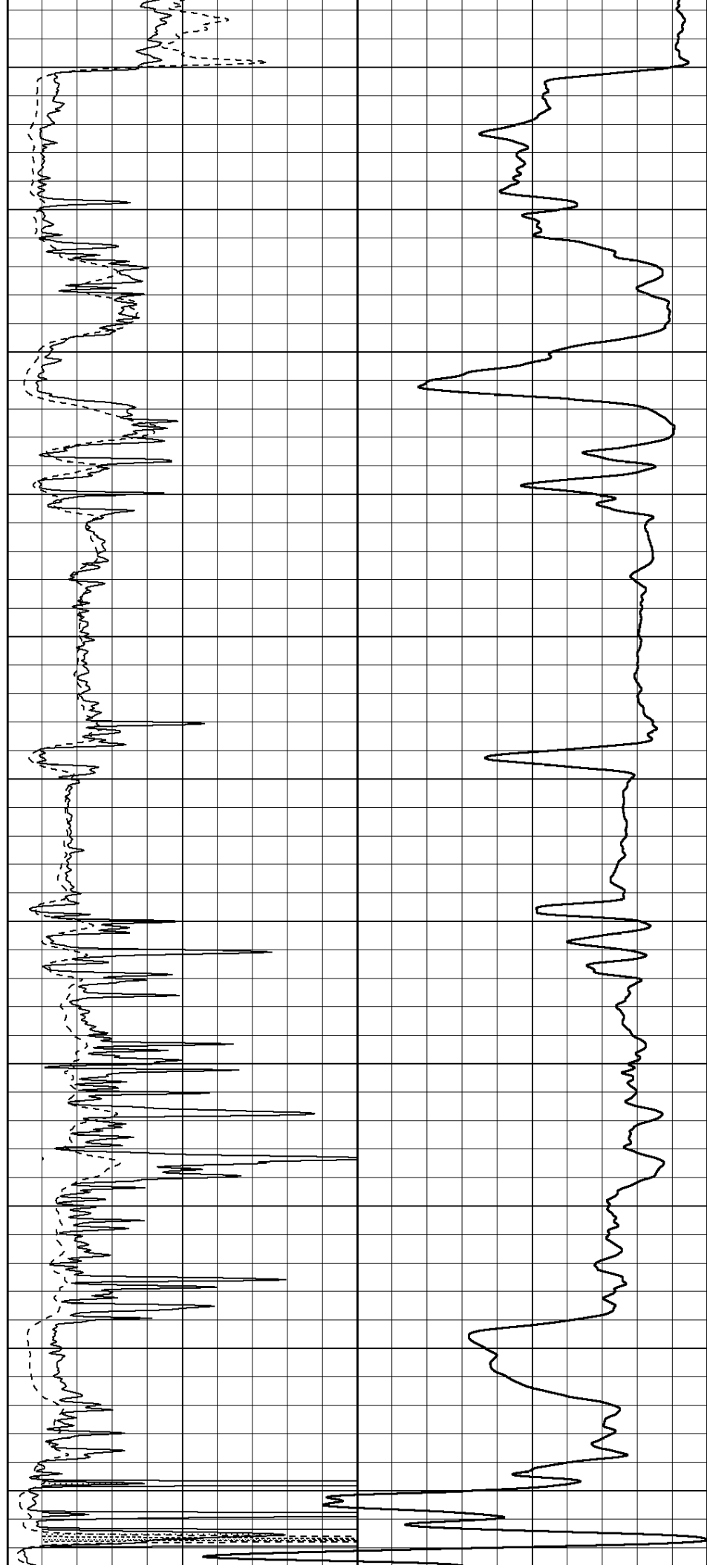
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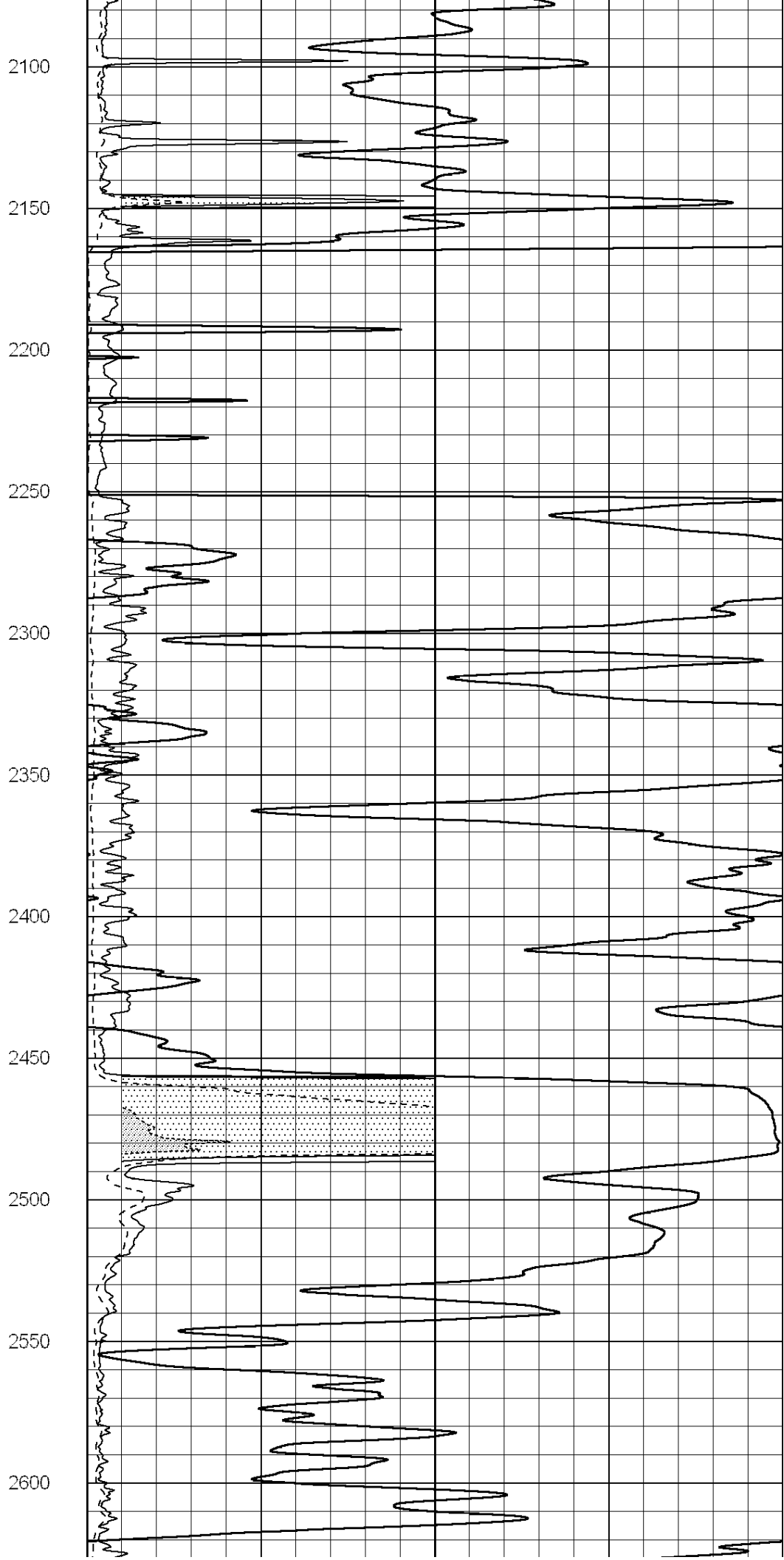
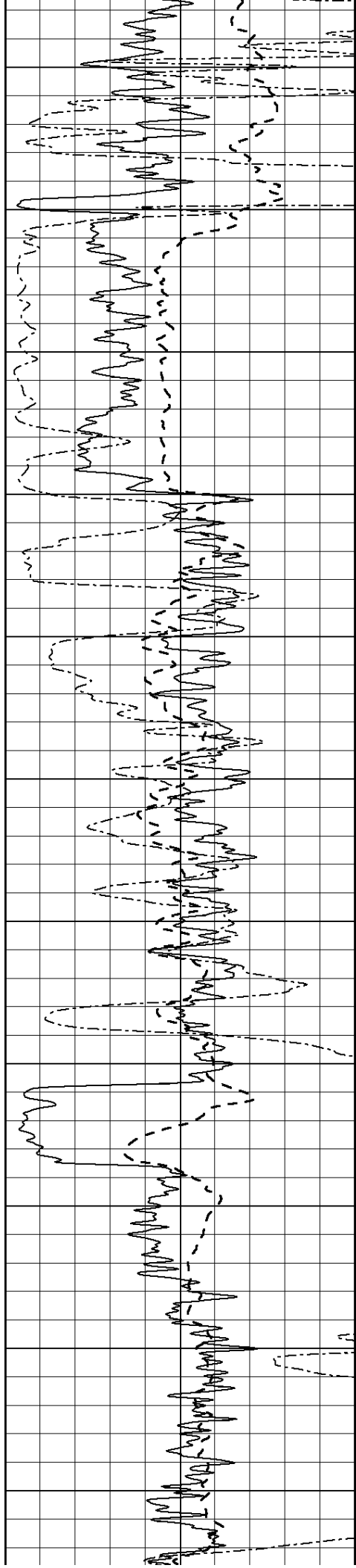
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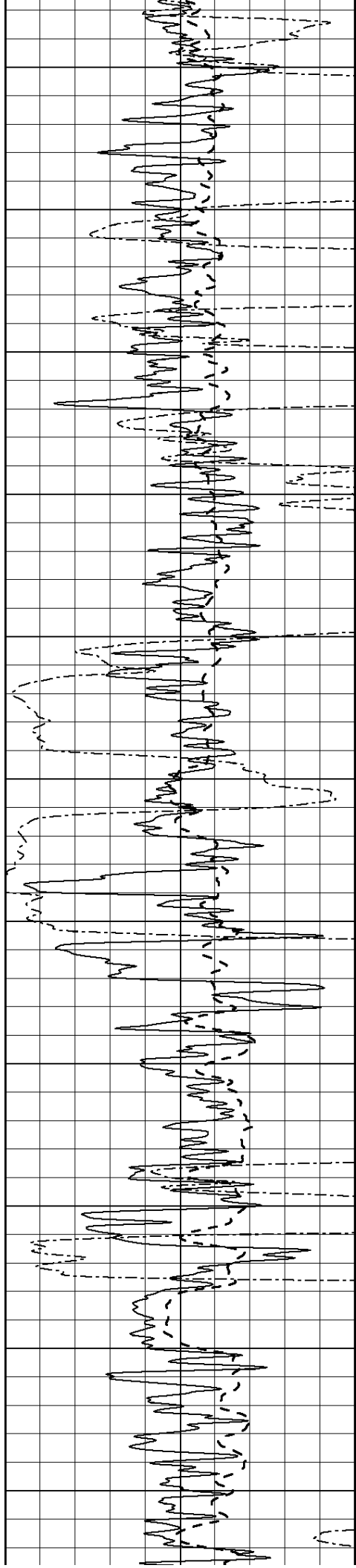
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2000

2050







2650

2700

2750

2800

2850

2900

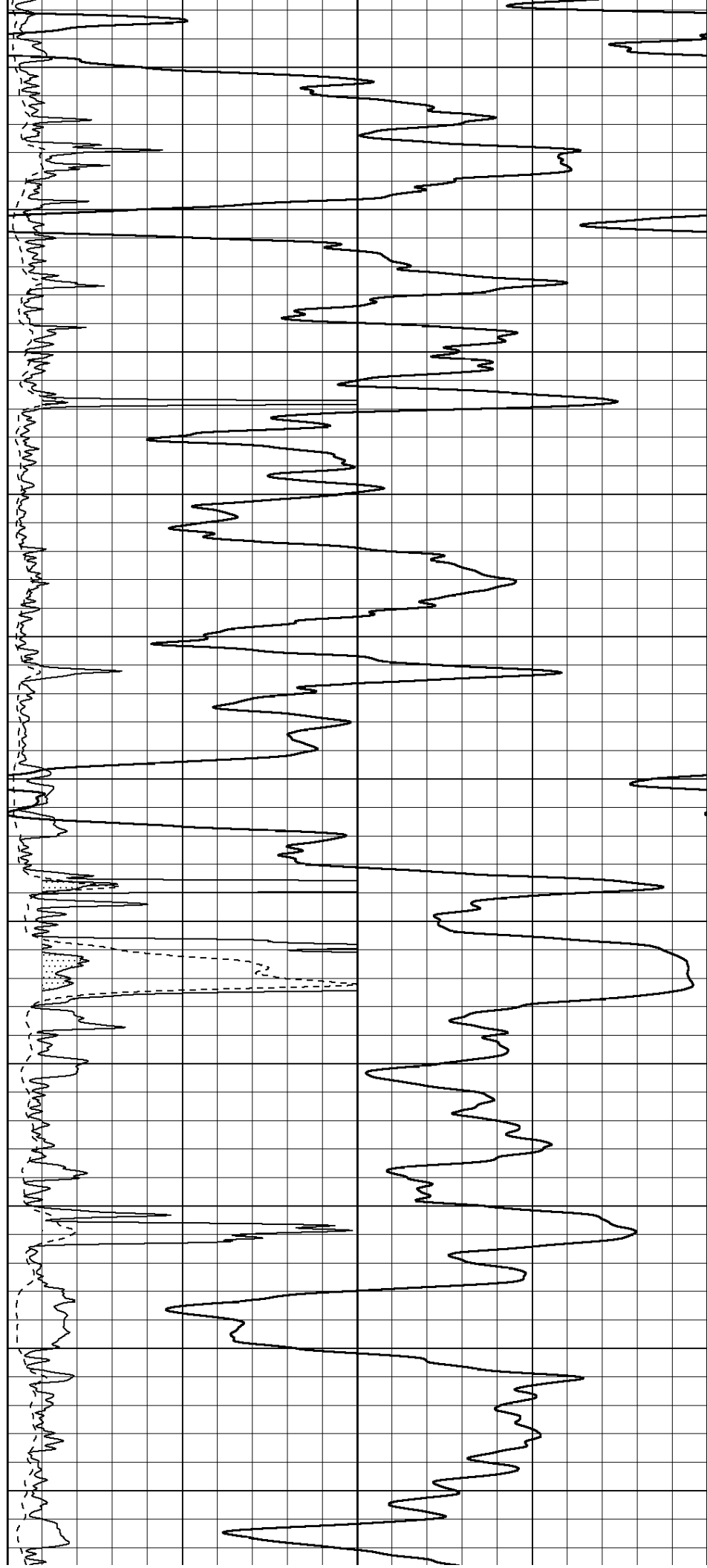
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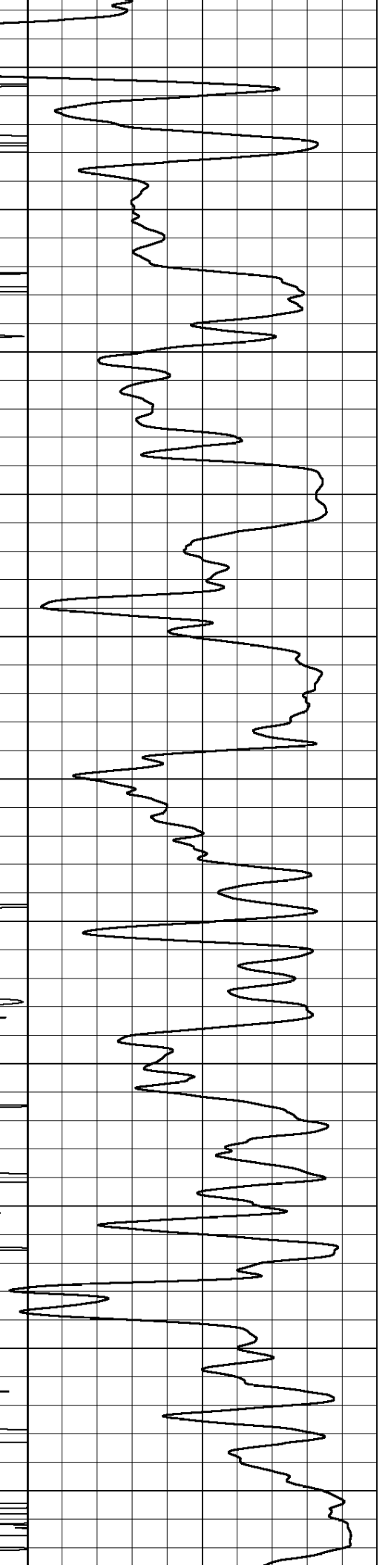
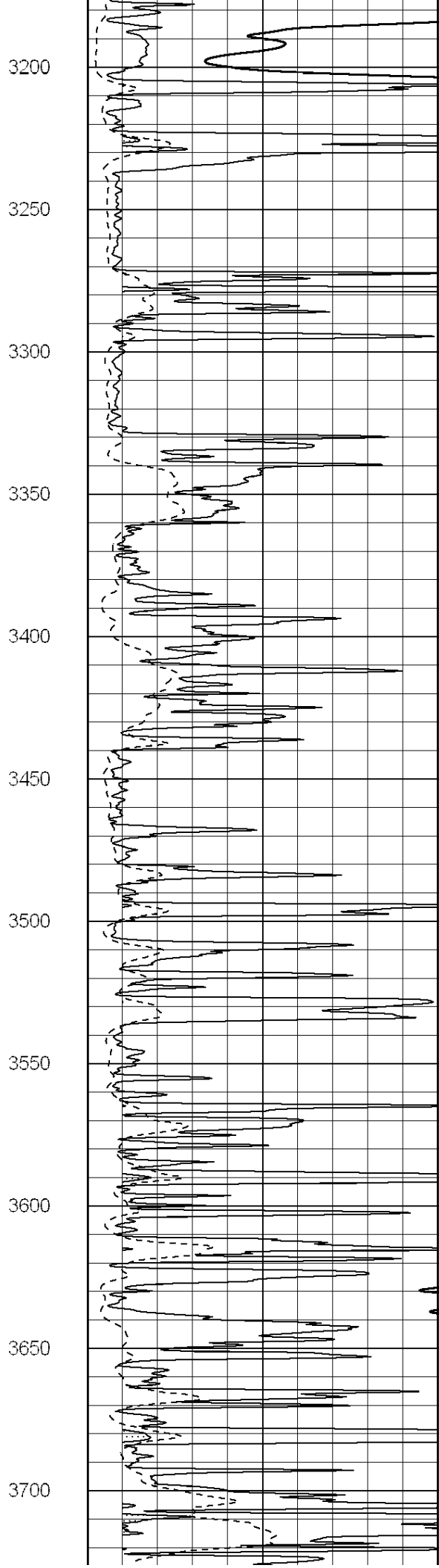
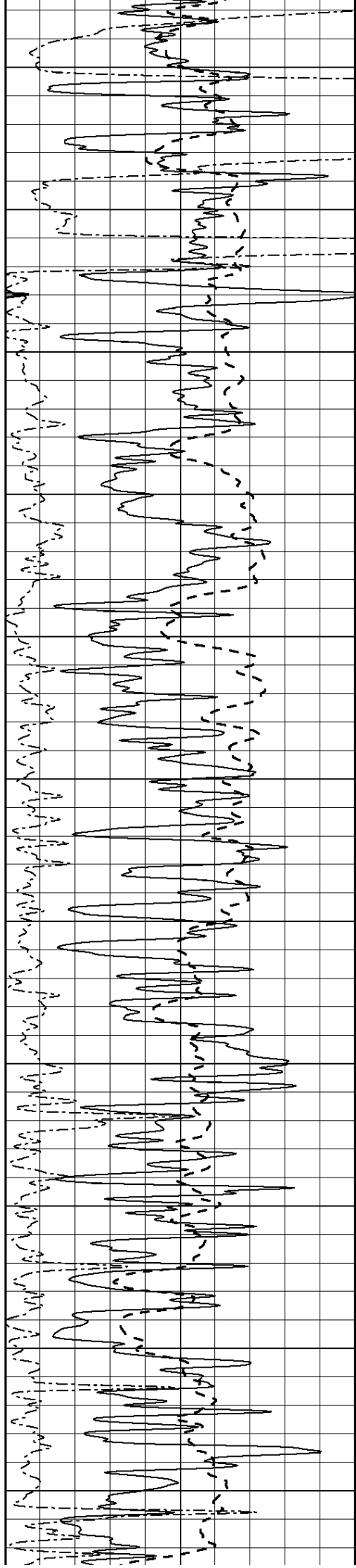
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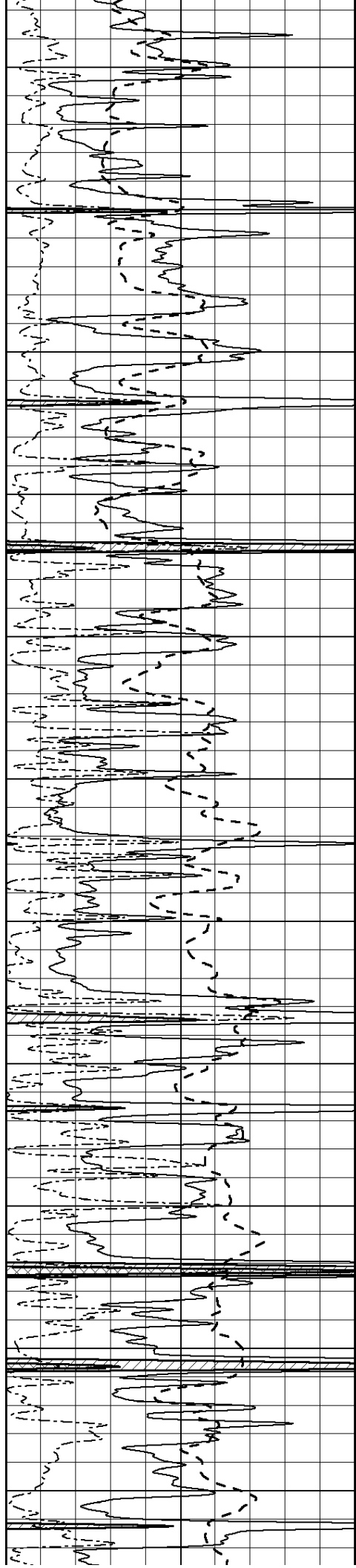
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3100

3150







3750

3800

3850

3900

3950

4000

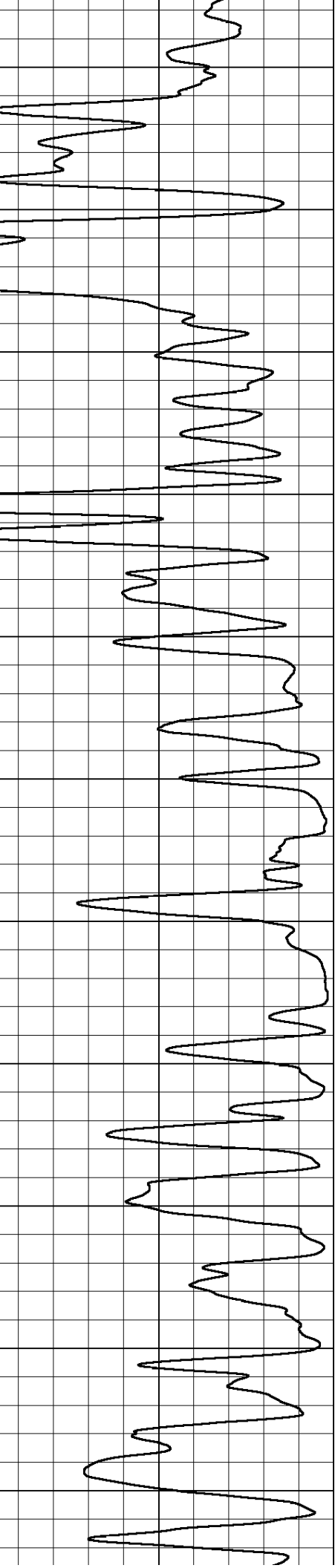
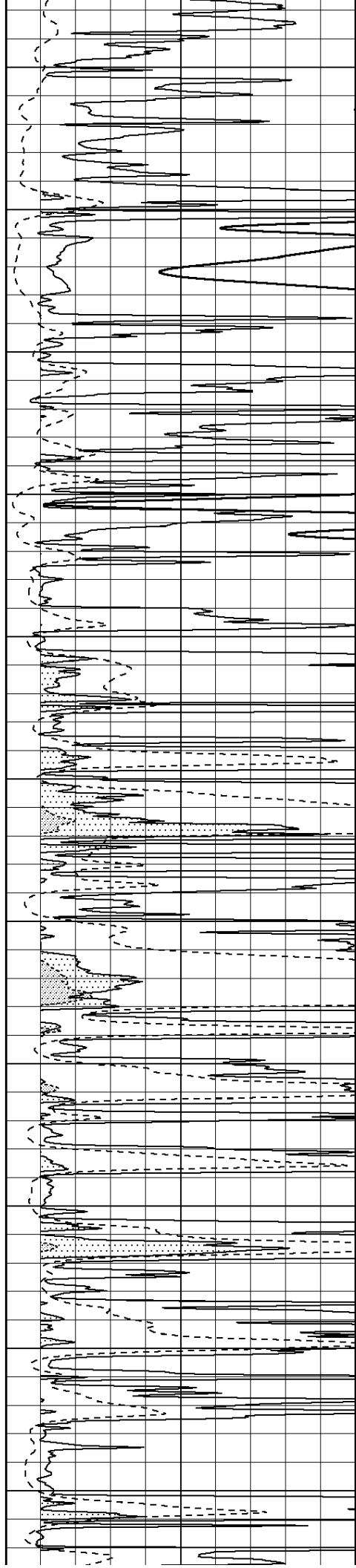
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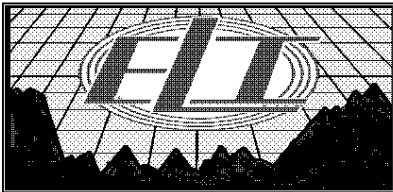
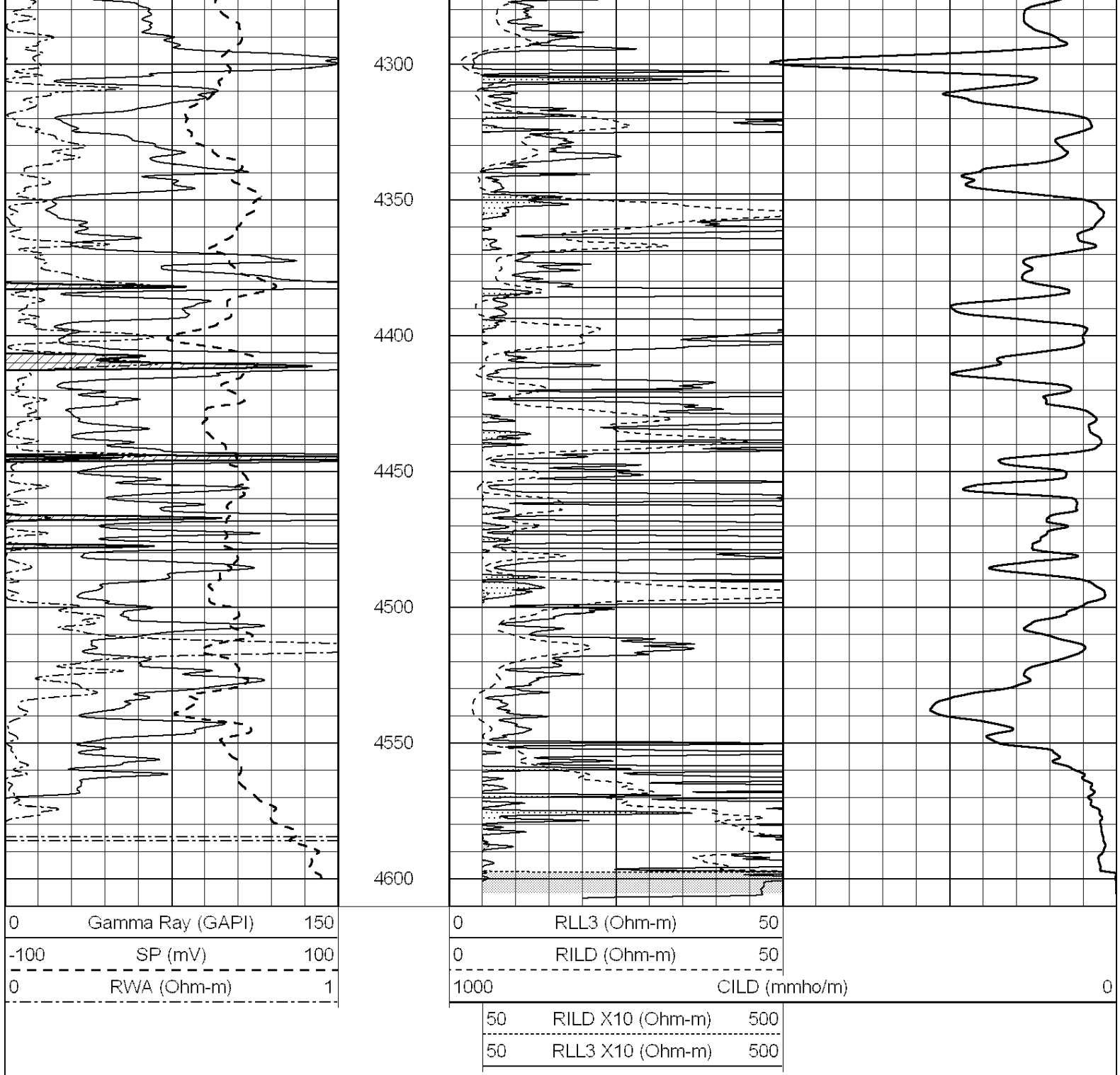
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4150

4200

4250

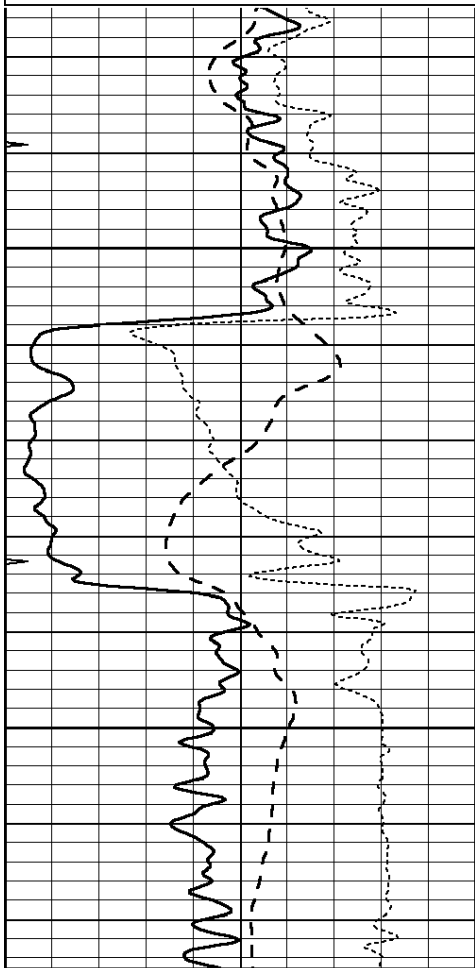




ANHYDRITE

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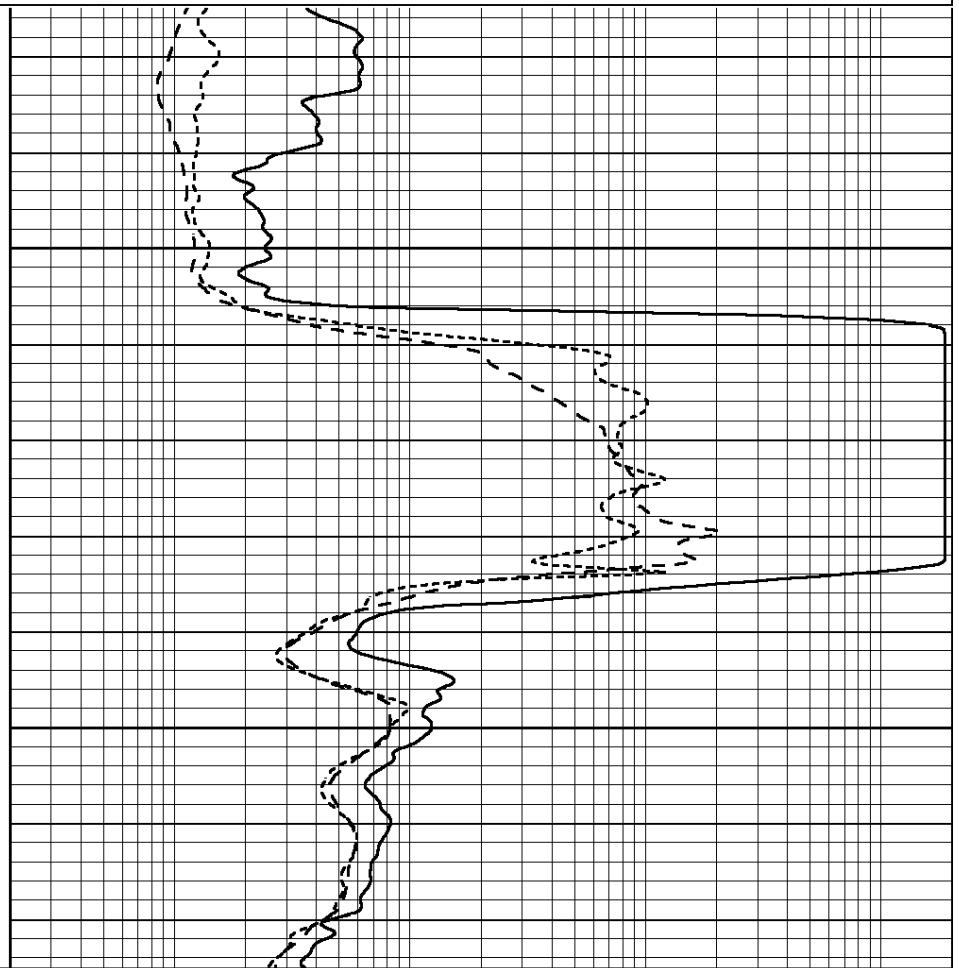
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-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000



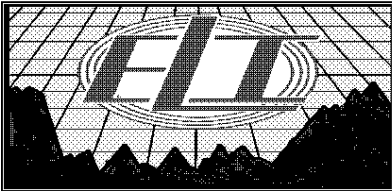
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

2450

2500



0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



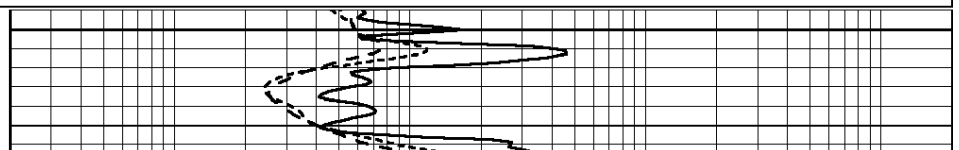
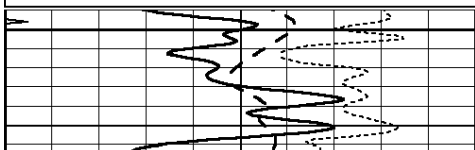
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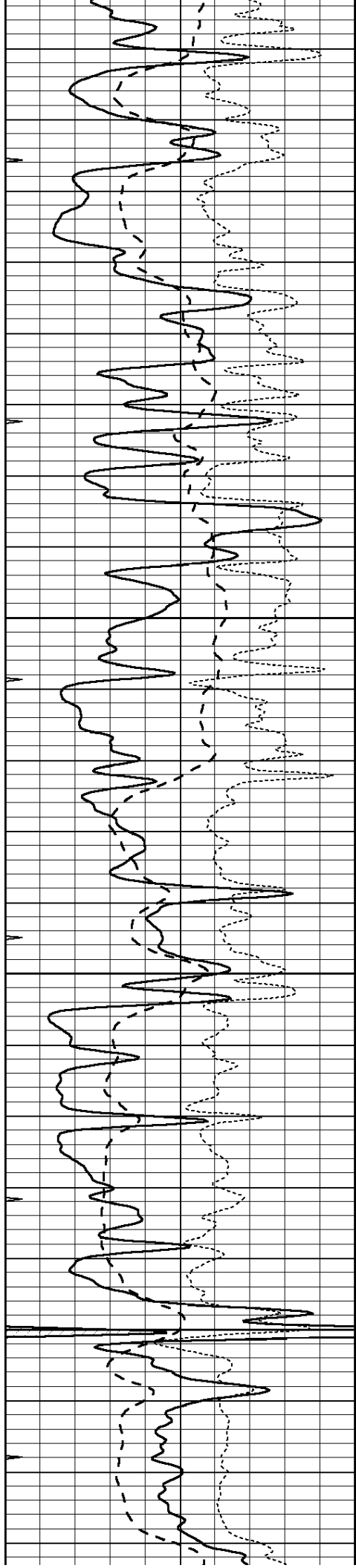
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

3600



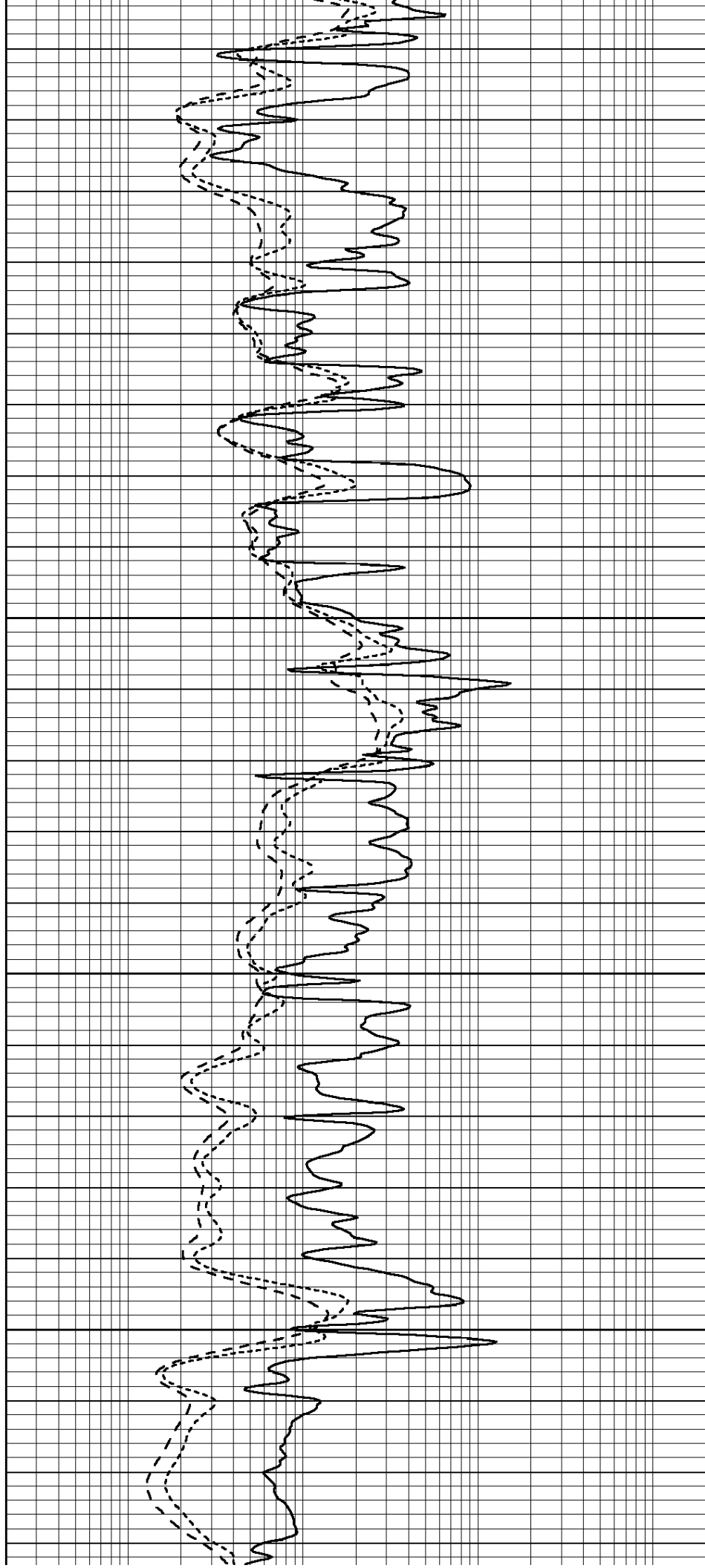


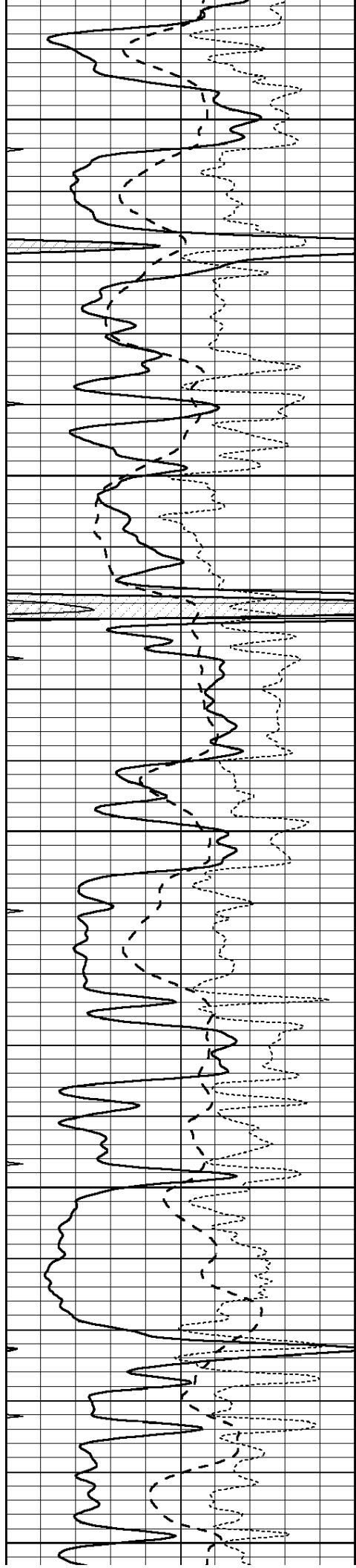
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3700

3750

3800





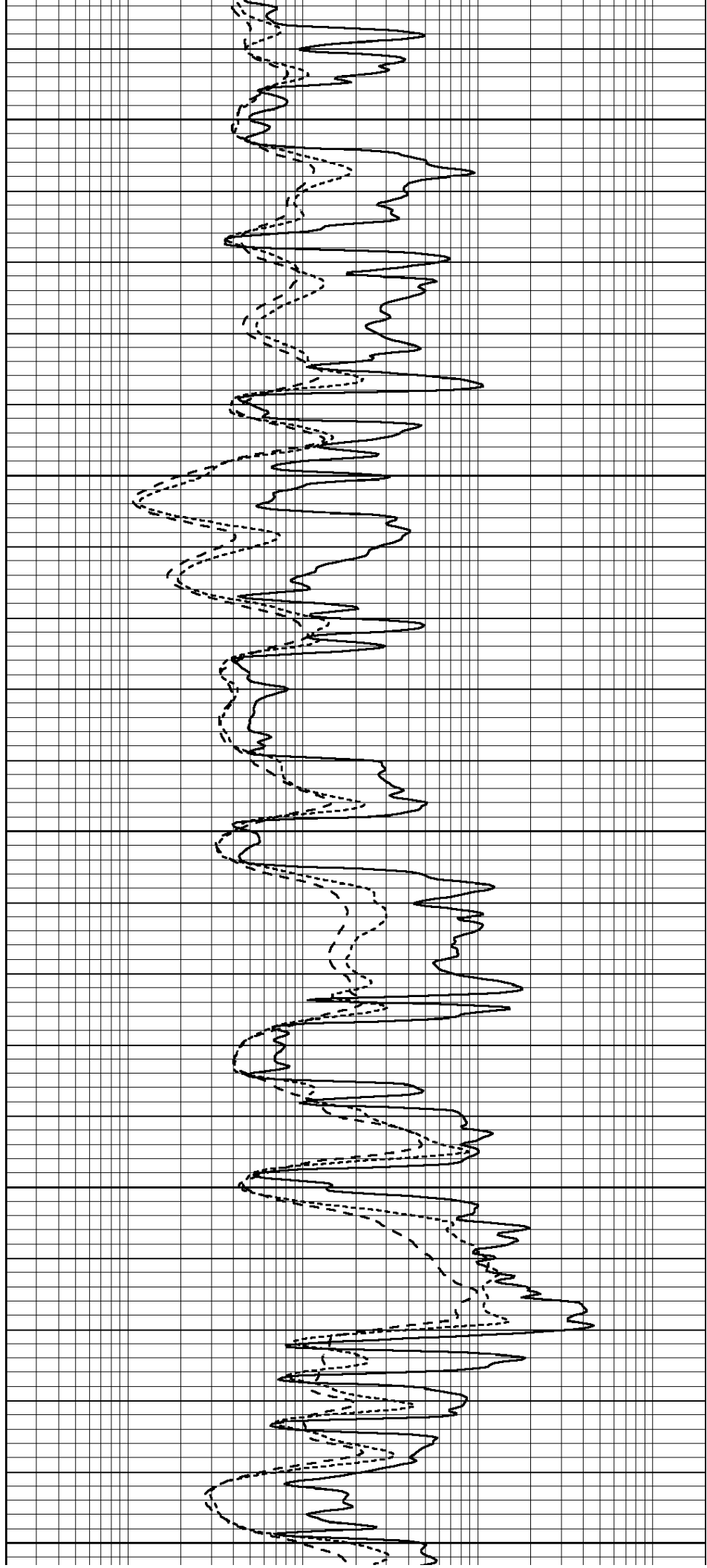
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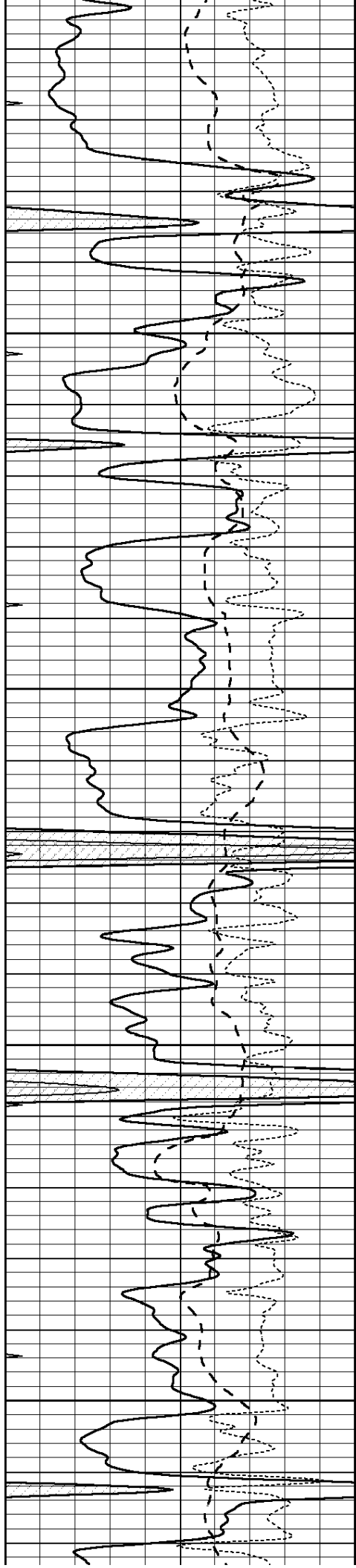
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3950

4000

4050



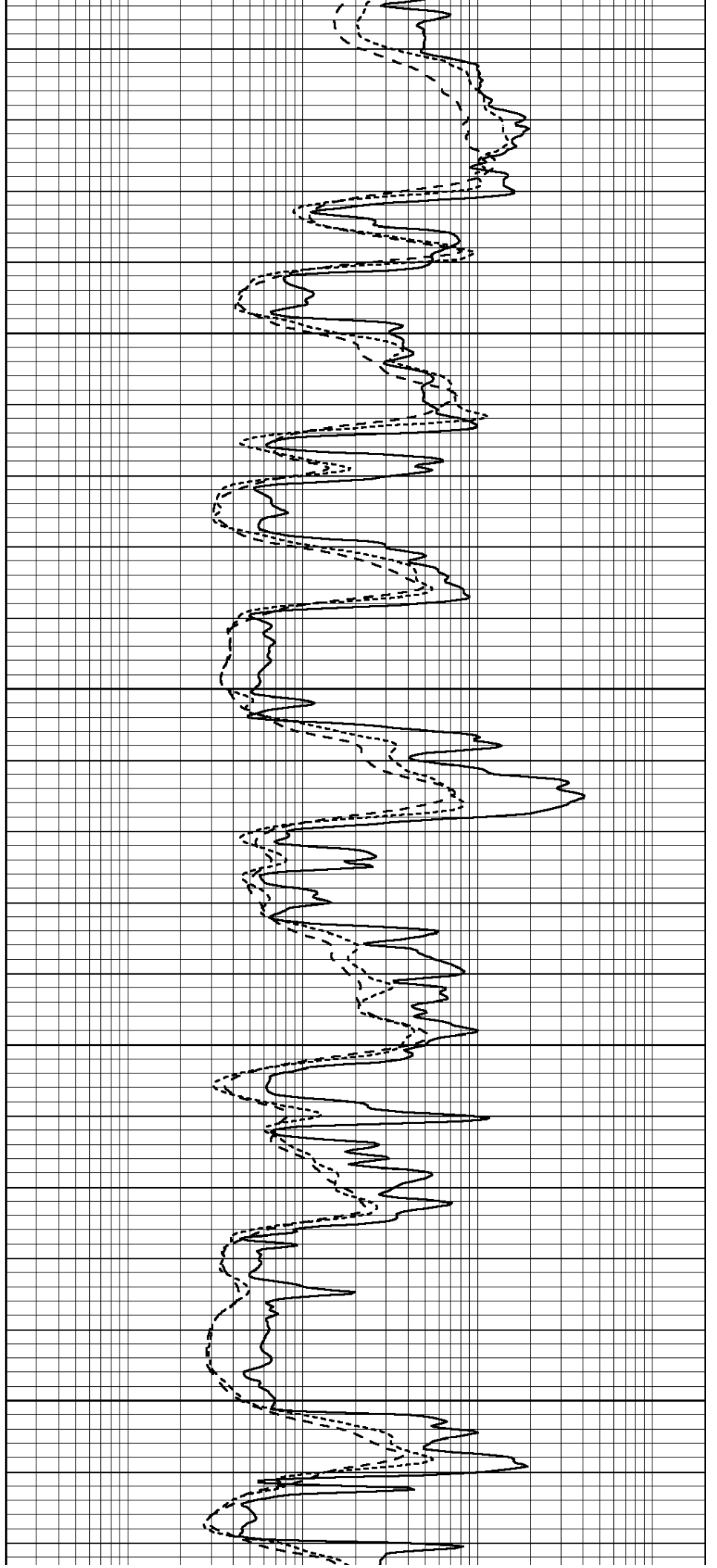


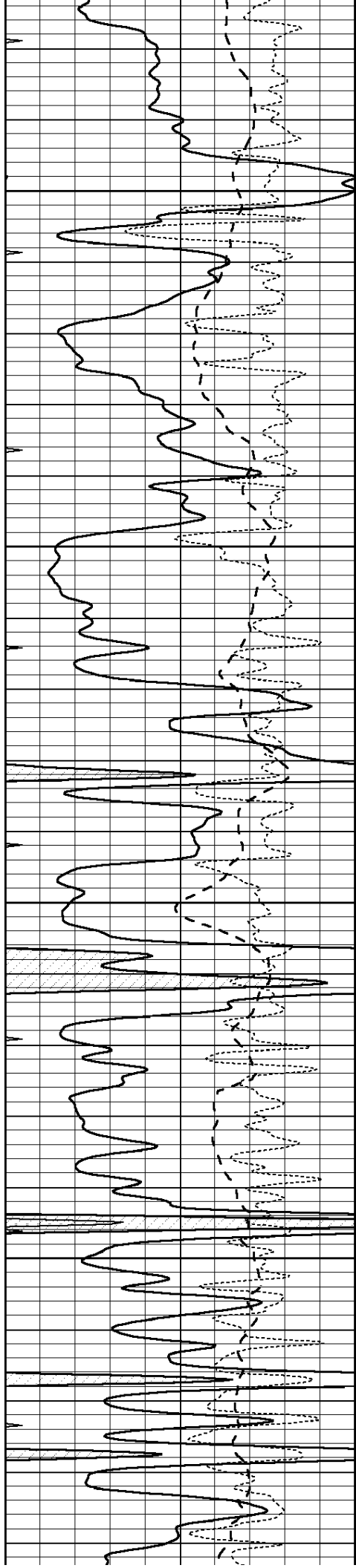
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4150

4200

4250



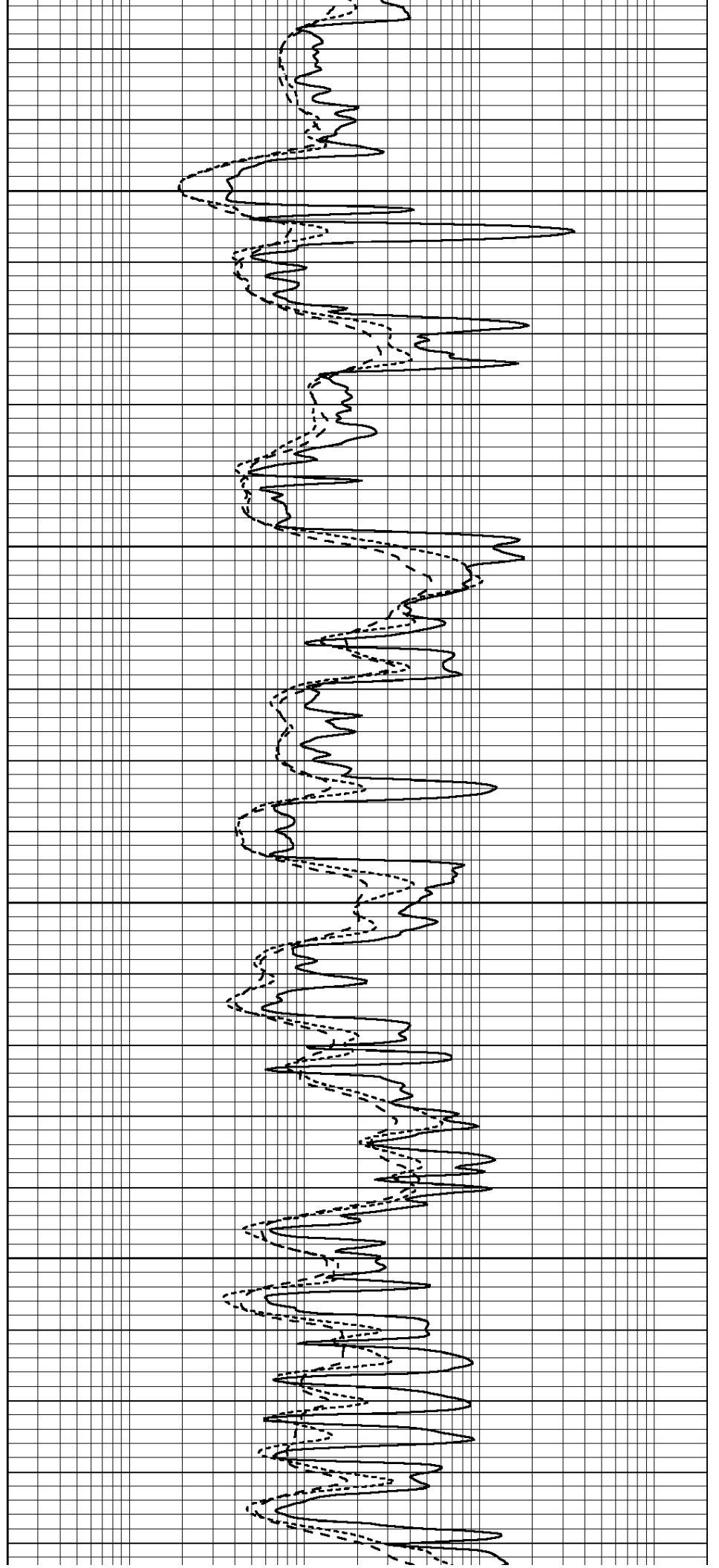


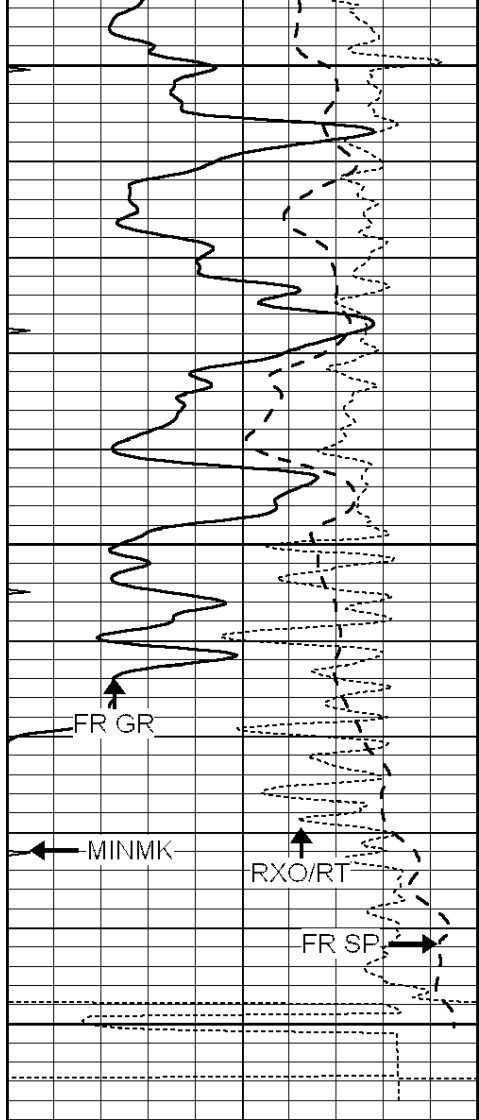
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4350

4400

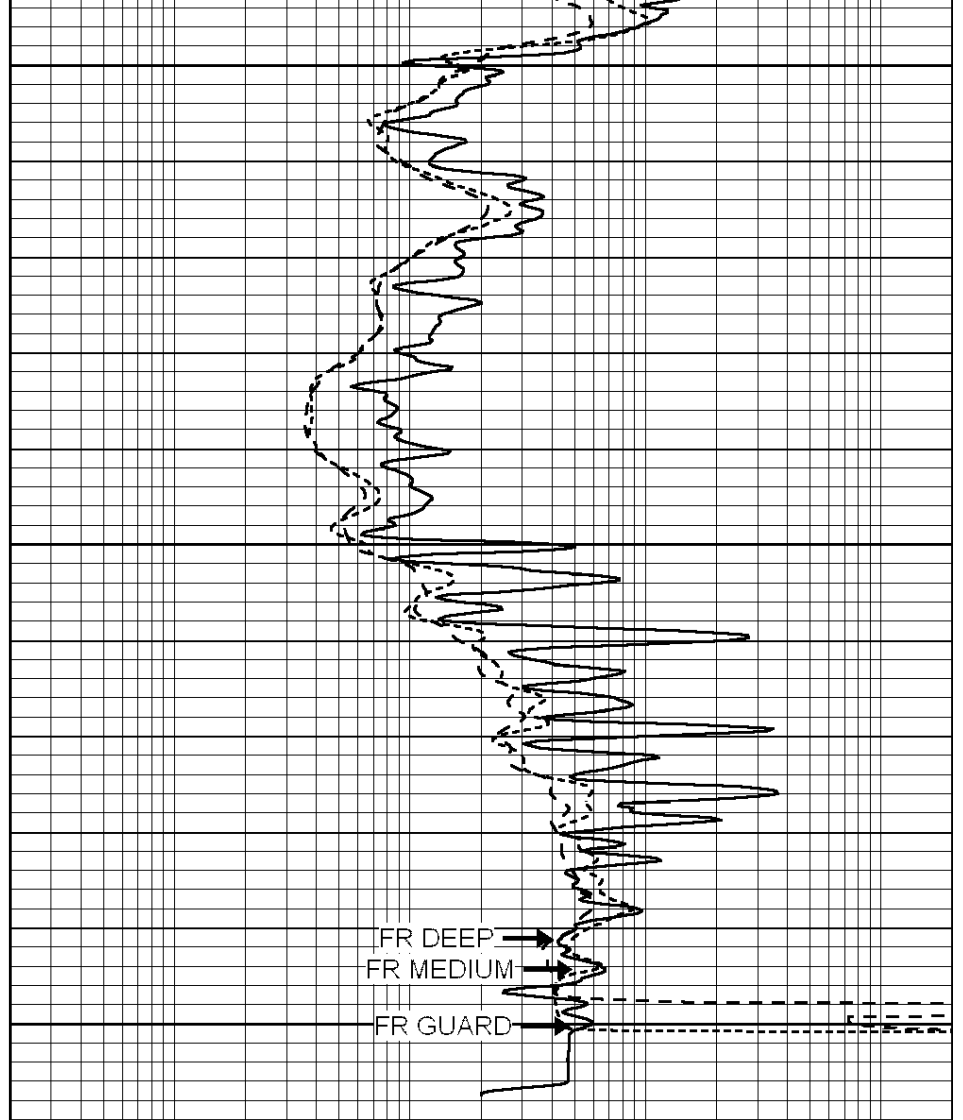
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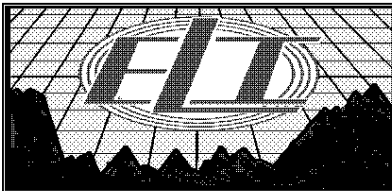


4500
4550
4600
LTD 4602

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

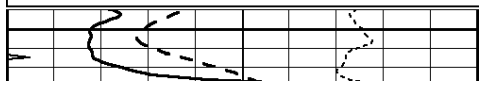


REPEAT SECTION

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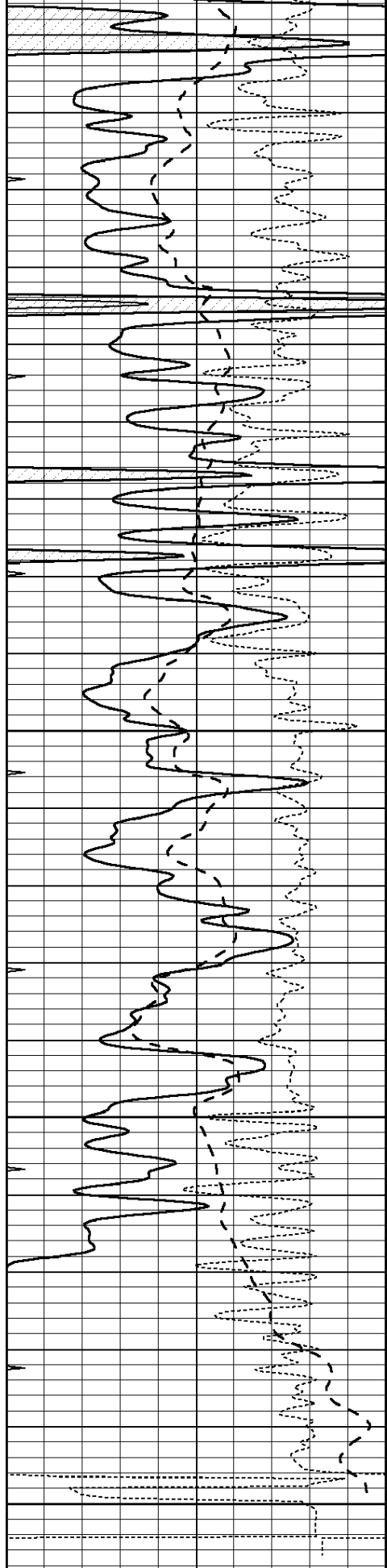
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



4400





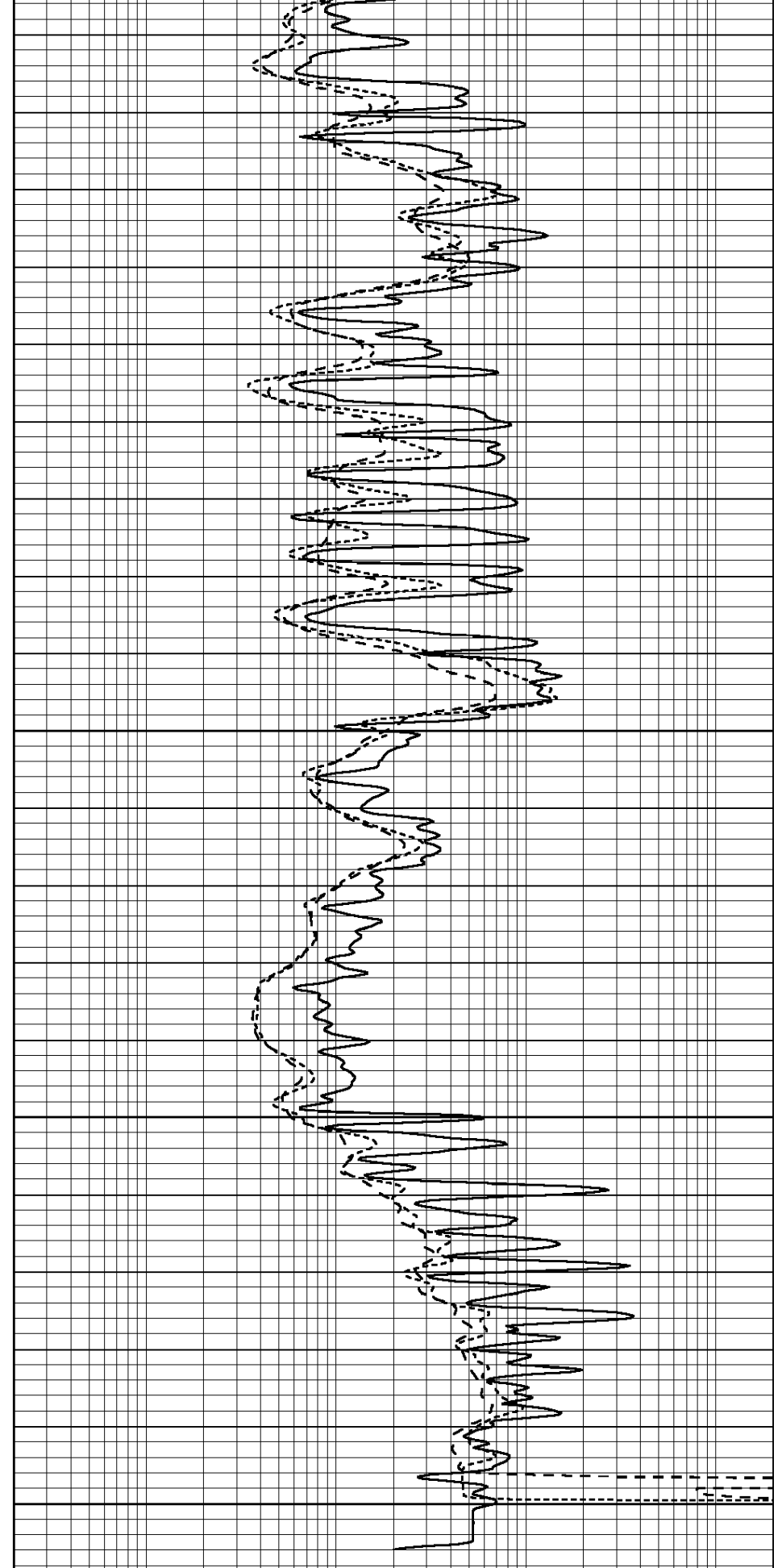
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINIMK	20

4450

4500

4550

4600



0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

Calibration Report

Database File: 31332ddn.db
 Dataset Pathname: pass3.8
 Dataset Creation: Thu Oct 20 13:49:15 2016

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Tue Oct 11 09:11:50 2016
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	625.000	-6.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	675.000	-49.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report
 Serial: 004N Model: PRB

Master Calibration

Performed Fri May 30 11:01:00 2014

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1378.8	10804.6	3492.0	12453.4	cps
Window 2	1262.4	9313.5	3076.7	10594.7	cps
Window 3	1077.6	5668.7	2076.0	6314.8	cps
Window 4	306.4	313.0	306.4	315.6	cps
Long Space	0.0	8051.0	1814.3	9332.3	cps
Short Space	1.9	1706.1	1146.0	1707.6	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	

Rib Angle : 45.0 Rib Slope : 1.002 Density/Spine Ratio : 0.571
 Spine Angle : 75.0 Spine Slope : 3.745 Spine Intercept : -18.9

Before Survey Verification

Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification

Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report

Serial Number: 070808
 Tool Model: Probe

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

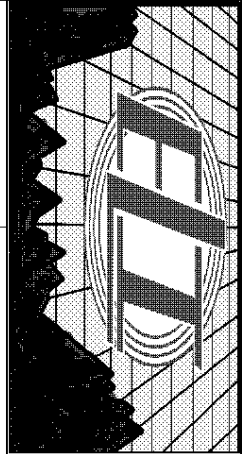
Gamma Ray Calibration Report

Serial Number: 070558
 Tool Model: OPEN_GR
 Performed: Mon Aug 22 01:00:15 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.2800 GAPI/cps



**COMPENSATED
DENSITY / NEUTRON
PE LOG**

Company BECKER OIL CORPORATION
 Well OTTLEY #2
 Field CAMPUS SIDING NORTH
 County THOMAS
 State KANSAS

Company BECKER OIL CORPORATION
 Well OTTLEY #2
 Field CAMPUS SIDING NORTH
 County THOMAS State KANSAS

Location: API # : 15-193-20974-0000
 1750' FNL & 890' FWL
 SW - NE - SW - NW
 SEC 36 TWP 10S RGE 31W
 Permanent Datum GROUND LEVEL Elevation 2892
 Log Measured From KELLY BUSHING 8' A.G.L.
 Drilling Measured From KELLY BUSHING
 Other Services DIL/MEL
 Elevation K.B. 2900
 D.F. 2898
 G.L. 2892

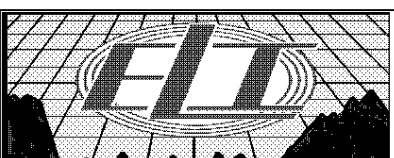
Date	10/20/16
Run Number	ONE
Depth Driller	4600
Depth Logger	4602
Bottom Logged Interval	4578
Top Log Interval	3600
Casing Driller	8 5/8" @ 226'
Casing Logger	226
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/58
pH / Fluid Loss	11.0/8.0
Source of Sample	FLOWLINE
Rim @ Meas. Temp	1.30 @ 60F
Rmf @ Meas. Temp	.975 @ 60F
Rmc @ Meas. Temp	1.56 @ 60F
Source of Rmf / Rmc	MEASUREMENT
Rim @ BHT	.645 @ 121F
Time Circulation Stopped	2.5 HOURS
Time Logger on Bottom	12:15 P.M.
Maximum Recorded Temperature	121F
Equipment Number	922339
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	CLYDE BECKER

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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

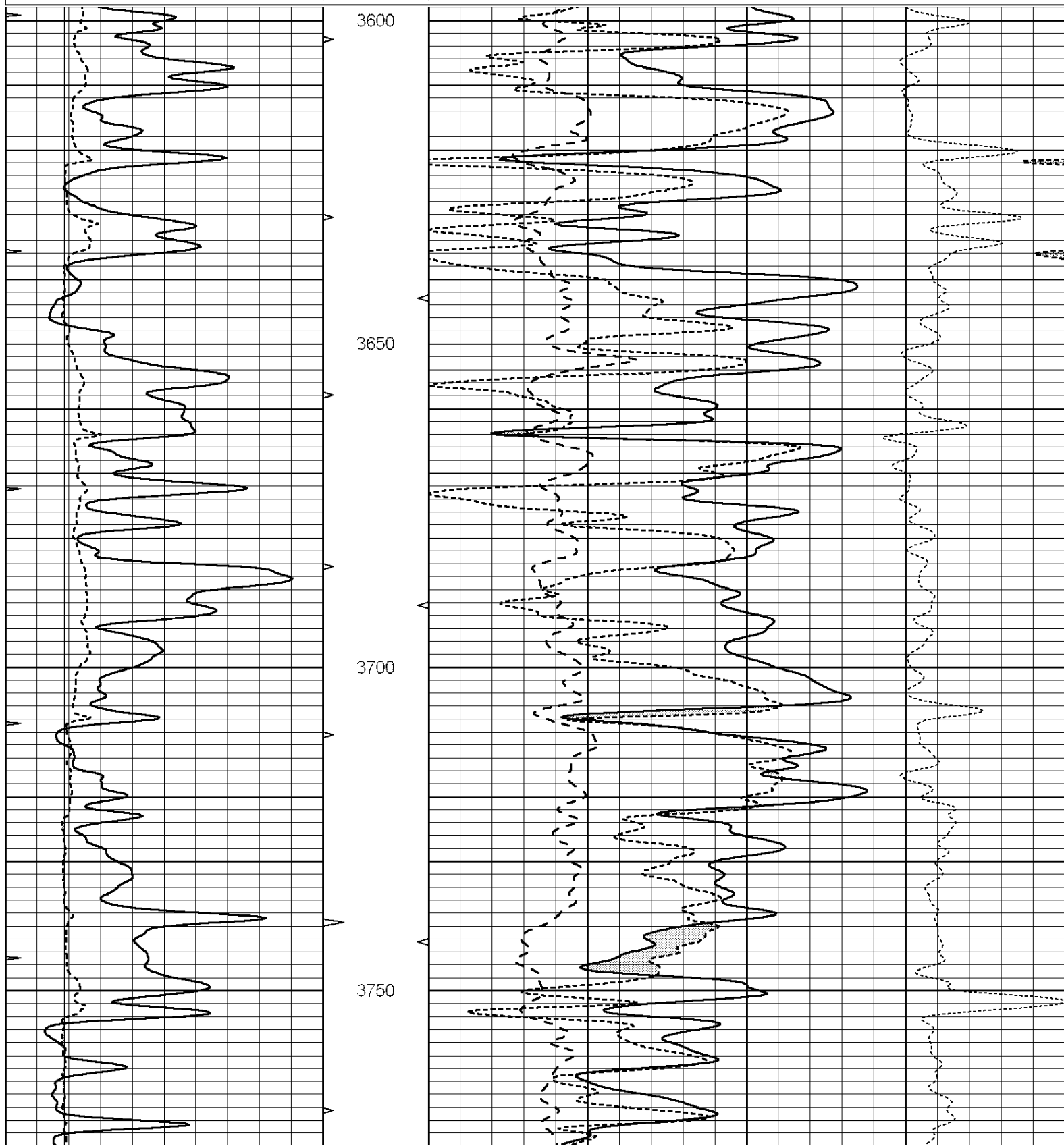
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
 DIRECTIONS
 CAMPUS, KS. & I-70, 2 1/2N., E. INTO

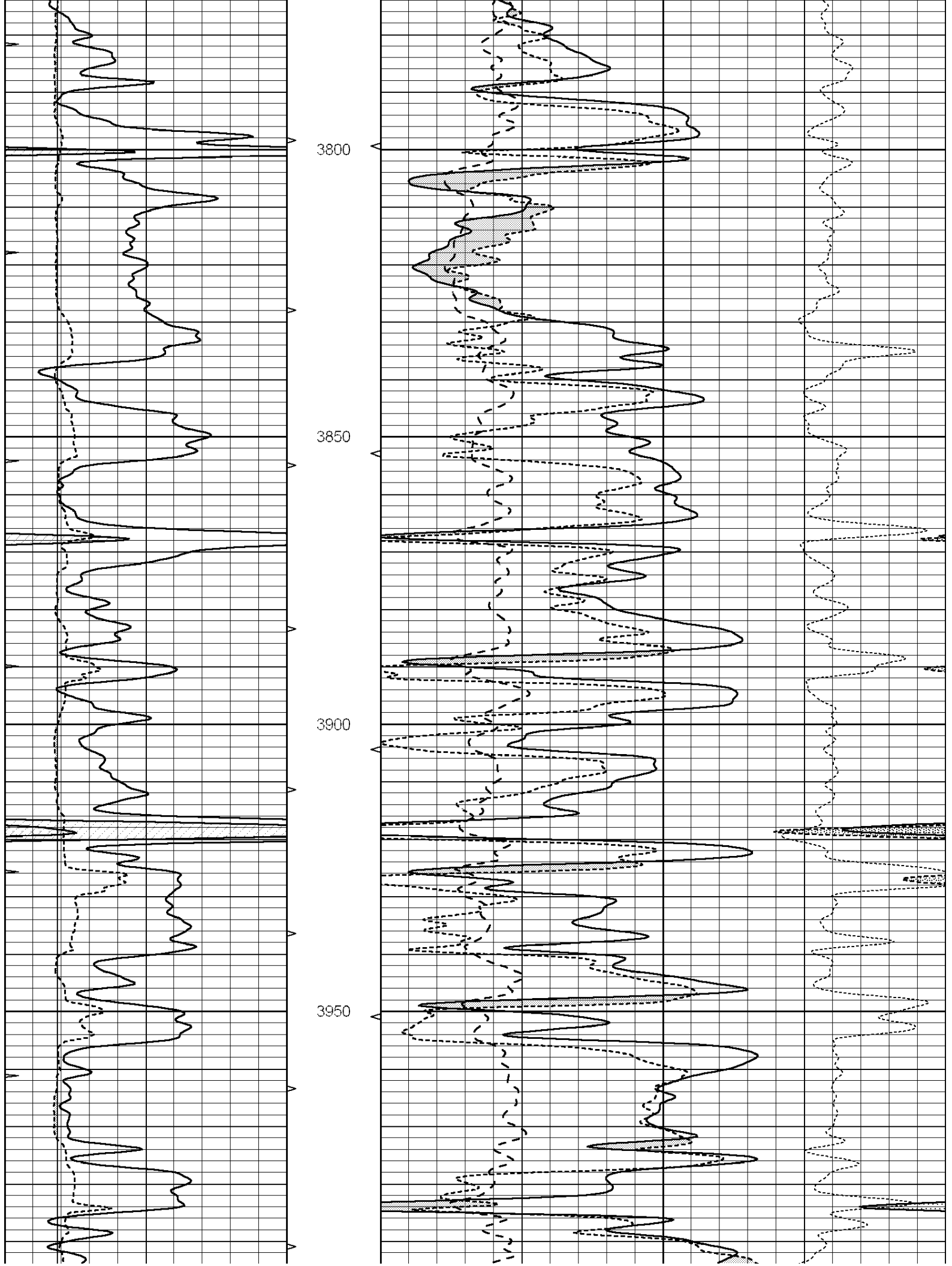


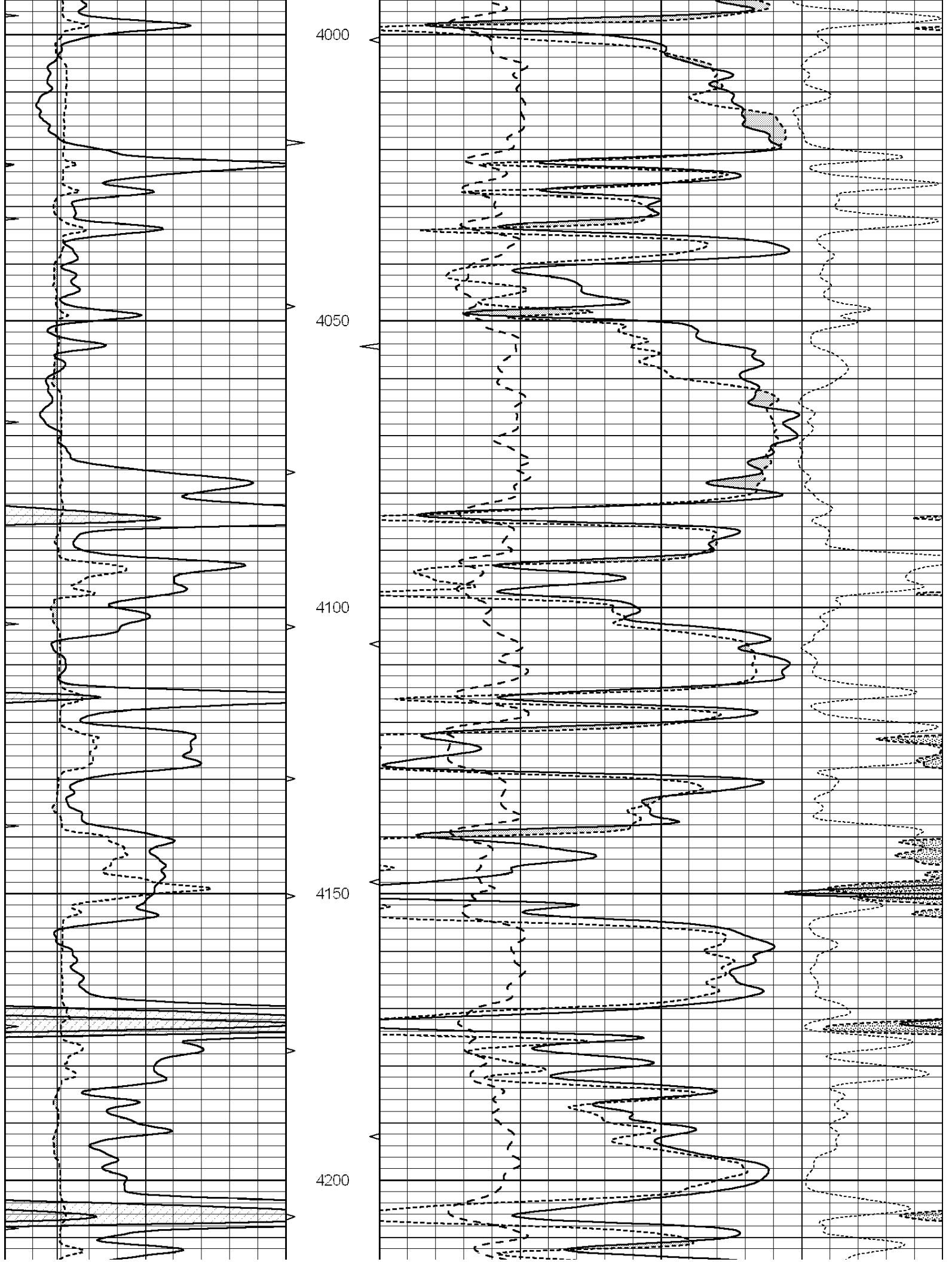
MAIN SECTION

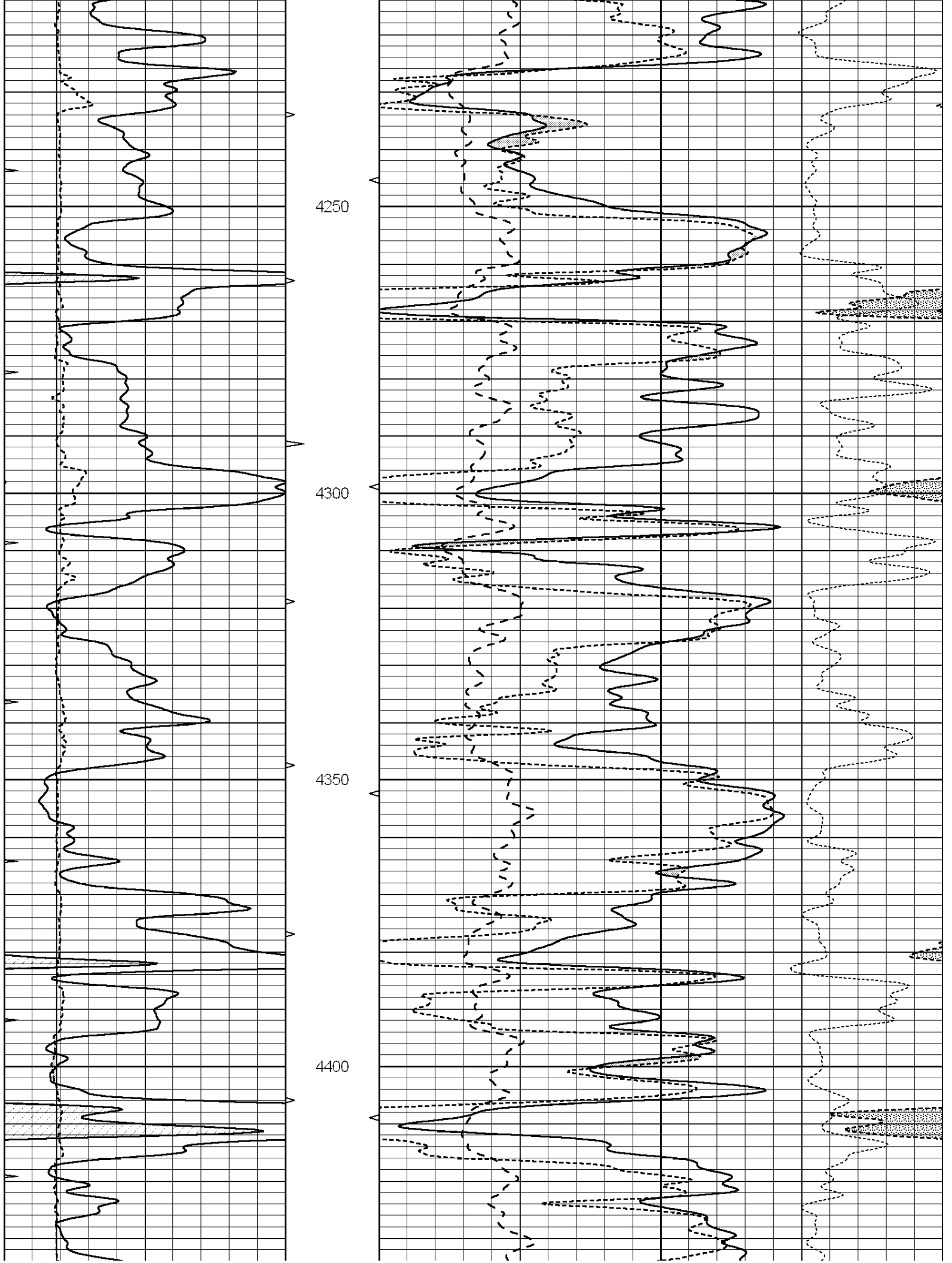
Database File: 31332ddn.db
 Dataset Pathname: pass3.8
 Presentation Format: ldt_neu
 Dataset Creation: Thu Oct 20 13:49:15 2016
 Charted by: Depth in Feet scaled 1:240

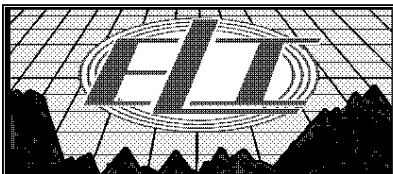
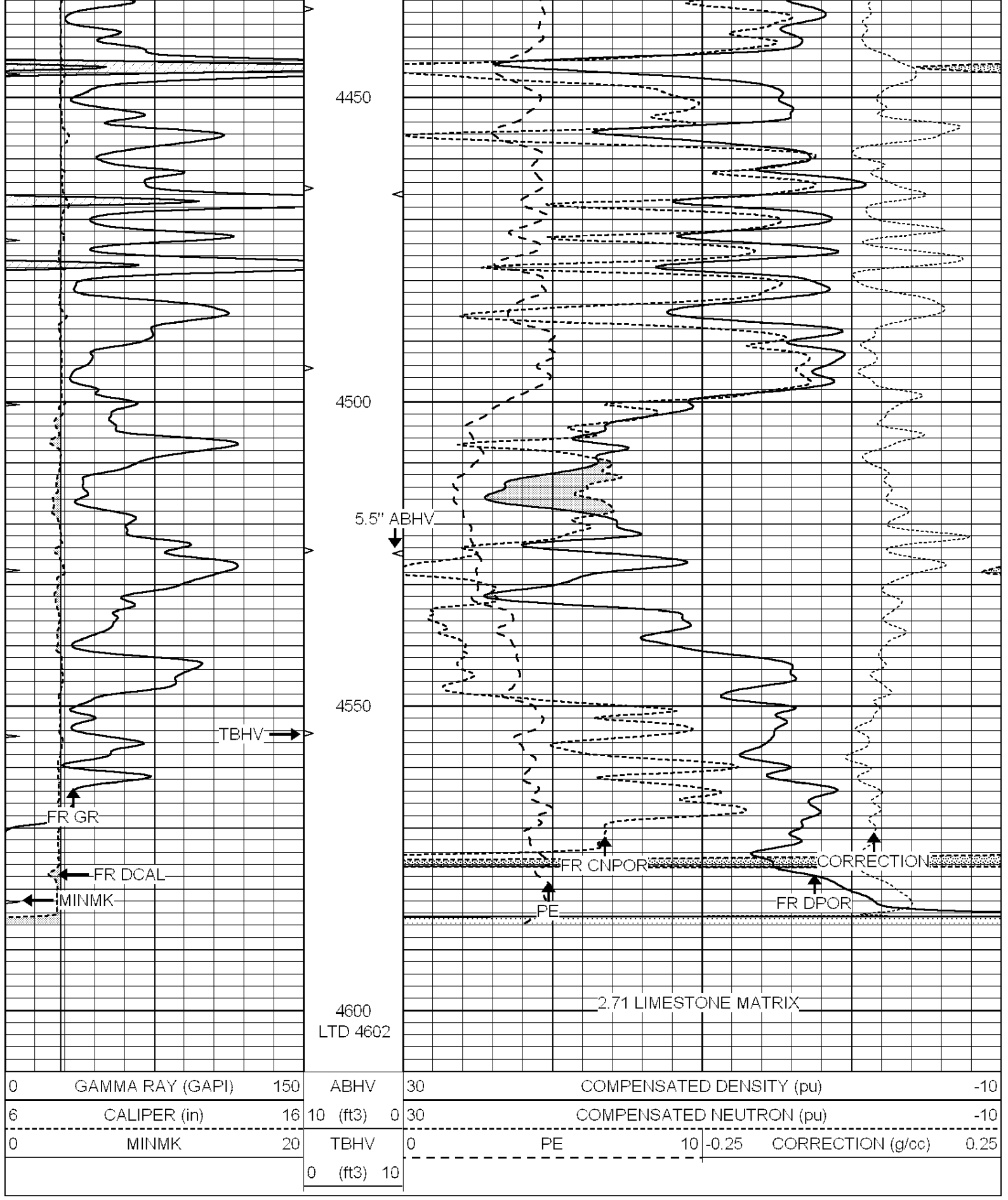
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)		-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)		-10
0	MINMK	20	TBHV	0	PE	10	-0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10			







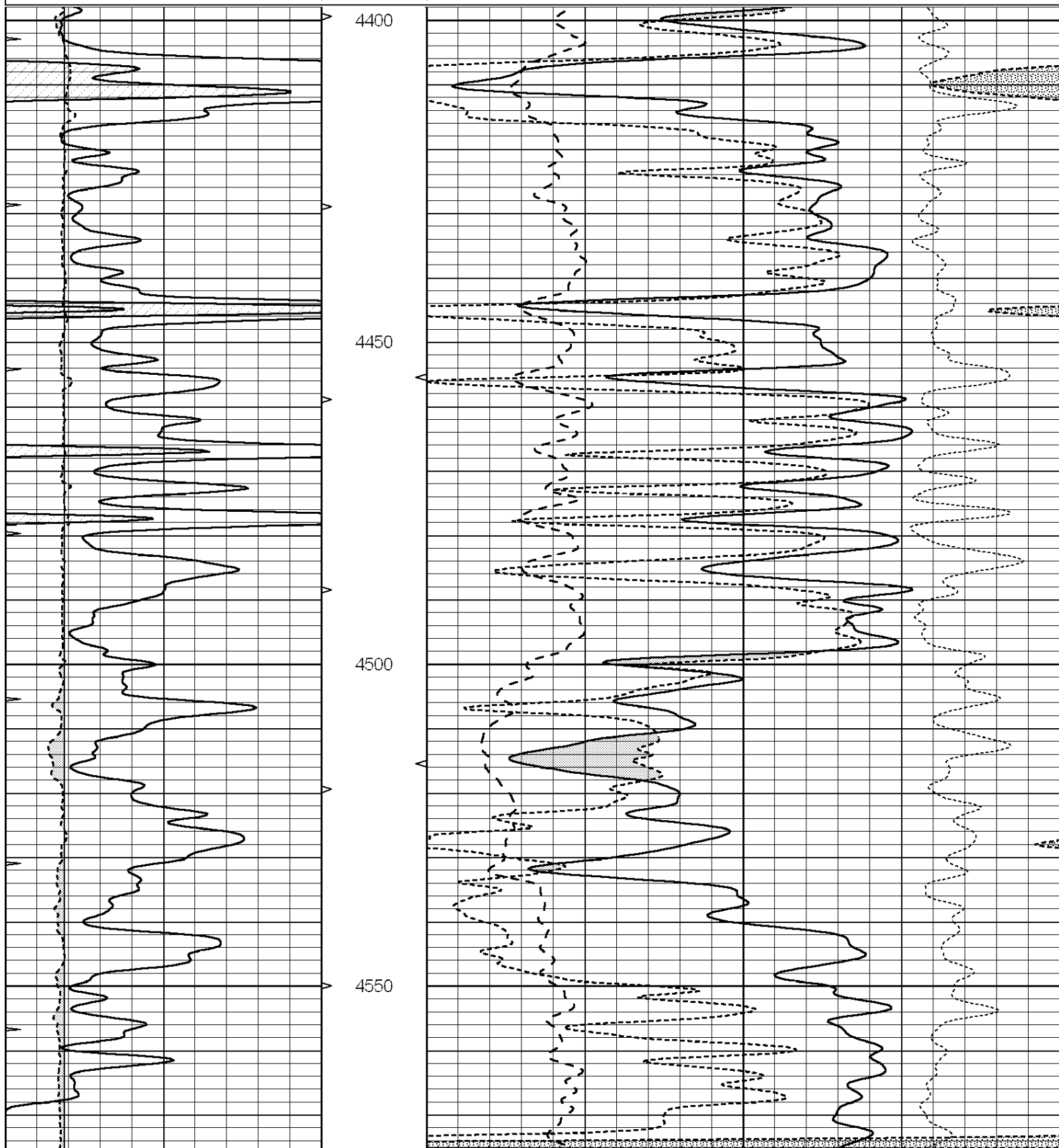




REPEAT SECTION

Database File: 31332ddn.db
 Dataset Pathname: pass2.8
 Presentation Format: ldt_neu
 Dataset Creation: Thu Oct 20 13:28:16 2016
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)		-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)		-10
0	MINMK	20	TBHV	0	PE	10 -0.25	CORRECTION (g/cc) 0.25
			0 (ft3)	10			



4600								
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10		
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10	
0	MINMK	20	TBHV	0	PE	10	-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10				

Calibration Report

Database File: 31332ddn.db
 Dataset Pathname: pass3.8
 Dataset Creation: Thu Oct 20 13:49:15 2016

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Tue Oct 11 09:11:50 2016
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Loop:	Readings				References			Results	
	Air	Loop	V		Air	Loop	mmho/m	m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	625.000	-6.000	
Medium	0.039	0.728	V	0.000	464.000	mmho/m	675.000	-49.000	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256	
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102	

Downhole Calibration

	Readings				References			Results	
	Zero	Cal	V		Zero	Cal	mmho/m	m'	b'
Deep	0.000	0.000	V	14.508	388.384	mmho/m	1.000	0.000	
Medium	0.000	0.000	V	166.367	504.400	mmho/m	1.000	0.000	
LL3		7.500	V		1400.000	Ohm-m			
		0.000	V		20.000	Ohm-m			
		-7.200	V		4000.000	mmho-m			

After Survey Verification

	Readings				Targets			Results	
	Zero	Cal	V		Zero	Cal	mmho/m	m'	b'
Deep	0.000	0.000	V	0.000	0.000	mmho/m	0.000	0.000	
Medium	0.000	0.000	V	0.000	0.000	mmho/m	0.000	0.000	
LL3		1.000	V		1.000	Ohm-m			
		0.000	V		0.000	Ohm-m			
		1.000	V		1.000	mmho-m			

Litho Density Calibration Report

Serial: 004N Model: PRB

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1378.8	10804.6	3492.0	12453.4	cps
Window 2	1262.4	9313.5	3076.7	10594.7	cps
Window 3	1077.6	5668.7	2076.0	6314.8	cps
Window 4	306.4	313.0	306.4	315.6	cps
Long Space	0.0	8051.0	1814.3	9332.3	cps
Short Space	1.9	1706.1	1146.0	1707.6	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	
Rib Angle	: 45.0	Rib Slope	: 1.002	Density/Spine Ratio	: 0.571
Spine Angle	: 75.0	Spine Slope	: 3.745	Spine Intercept	: -18.9

Before Survey Verification

Performed Wed Dec 31 18:00:00 1969

	Background	Magnesium	Aluminum	Sandstone	
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification

Performed Wed Dec 31 18:00:00 1969

	Background	Magnesium	Aluminum	Sandstone	
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report

Serial Number: 070808
Tool Model: Probe

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 070558

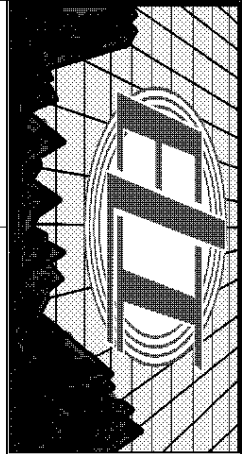
Tool Model: OPEN_GR
Performed: Mon Aug 22 01:00:15 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.2800 GAPI/cps



MICRO LOG

Company BECKER OIL CORPORATION
 Well OTTLEY #2
 Field CAMPUS SIDING NORTH
 County THOMAS
 State KANSAS

Company BECKER OIL CORPORATION
 Well OTTLEY #2
 Field CAMPUS SIDING NORTH
 County THOMAS State KANSAS

Location: API # : 15-193-20974-0000
 1750' FNL & 890' FWL
 SW - NE - SW - NW
 SEC 36 TWP 10S RGE 31W
 Permanent Datum GROUND LEVEL Elevation 2892
 Log Measured From KELLY BUSHING 8' A.G.L.
 Drilling Measured From KELLY BUSHING
 Other Services CDL/CNL/PE DIL
 Elevation K.B. 2900 D.F. 2898 G.L. 2892

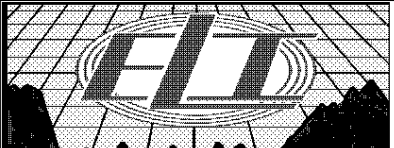
Date	10/20/16	
Run Number	TWO	
Depth Driller	4600	
Depth Logger	4602	
Bottom Logged Interval	4600	
Top Log Interval	3600	
Casing Driller	8 5/8" @ 226'	
Casing Logger	226	
Bit Size	7 7/8"	
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,500 PPM
Density / Viscosity	9.2/58	
pH / Fluid Loss	11.0/8.0	
Source of Sample	FLOWLINE	
Rim @ Meas. Temp	1.30 @ 60F	
Rmf @ Meas. Temp	.975 @ 60F	
Rmc @ Meas. Temp	1.56 @ 60F	
Source of Rmf / Rmc	MEASUREMENT	
Rim @ BHT	.645 @ 121F	
Time Circulation Stopped	4.5 HOURS	
Time Logger on Bottom	12:15 P.M.	
Maximum Recorded Temperature	121F	
Equipment Number	922339	
Location	HAYS, KANSAS	
Recorded By	JEFF LUEBBERS	
Witnessed By	CLYDE BECKER	

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Comments

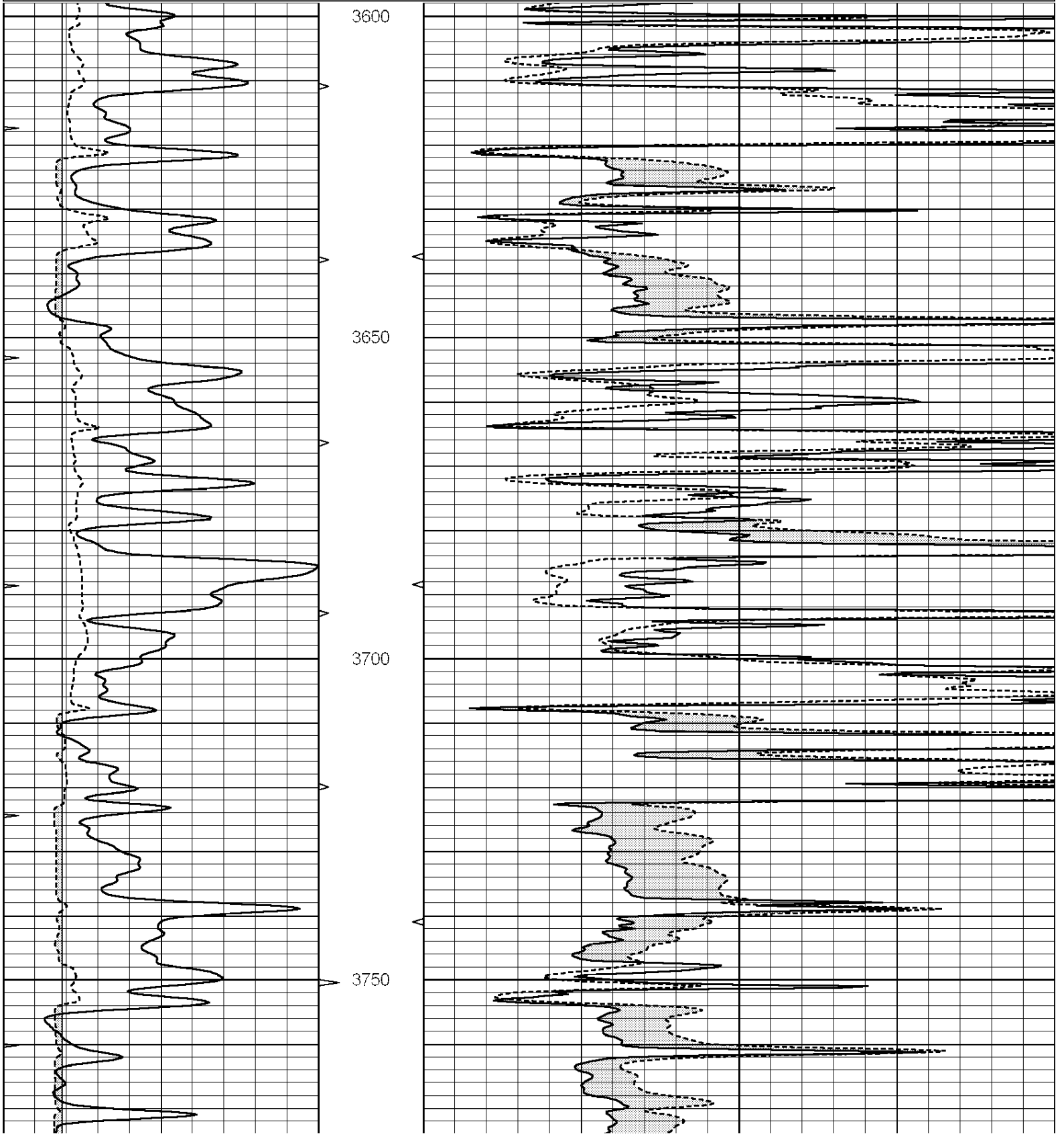
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
 DIRECTIONS
 CAMPUS, KS. & I-70, 2 1/2N., E. INTO

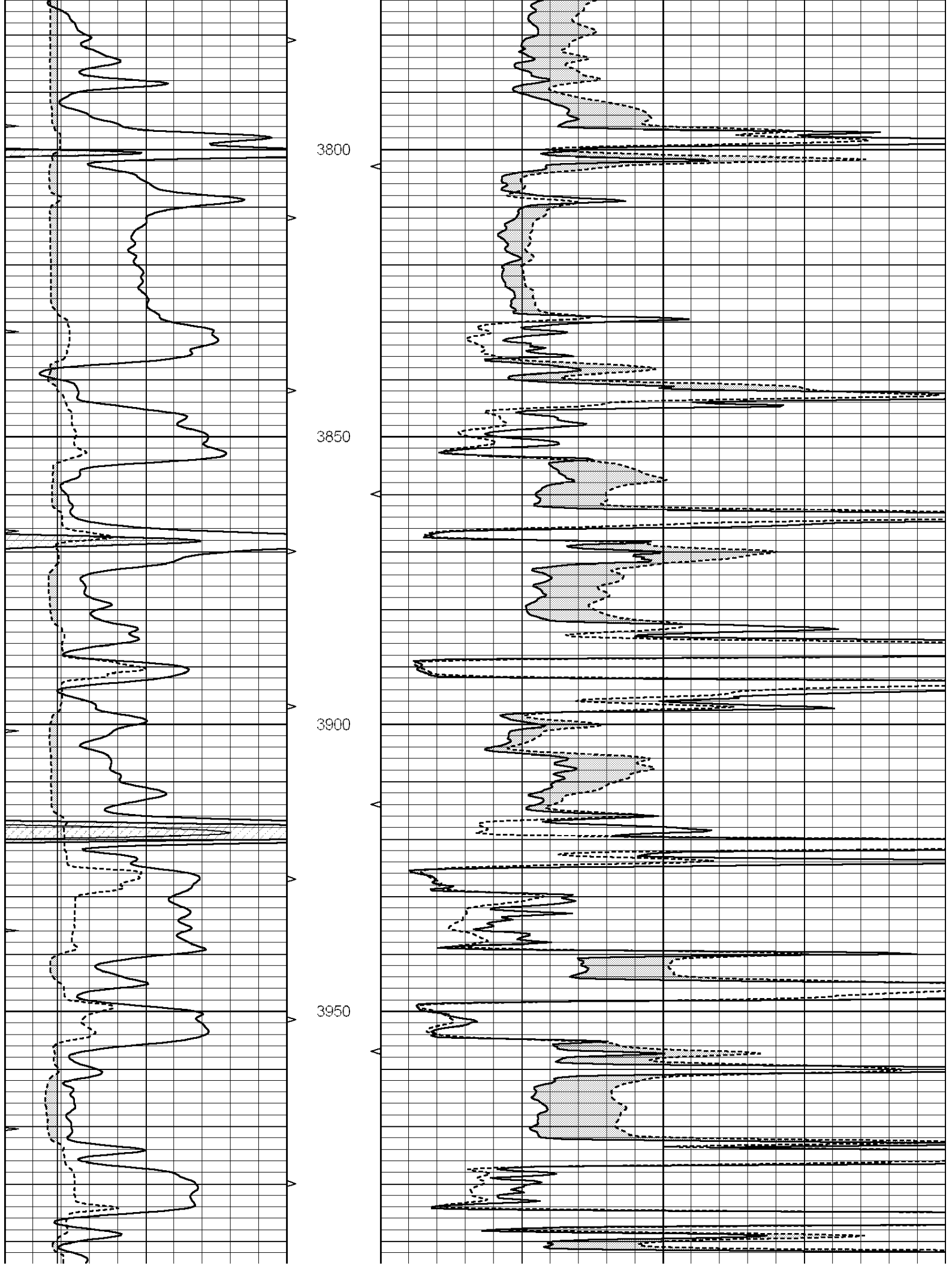


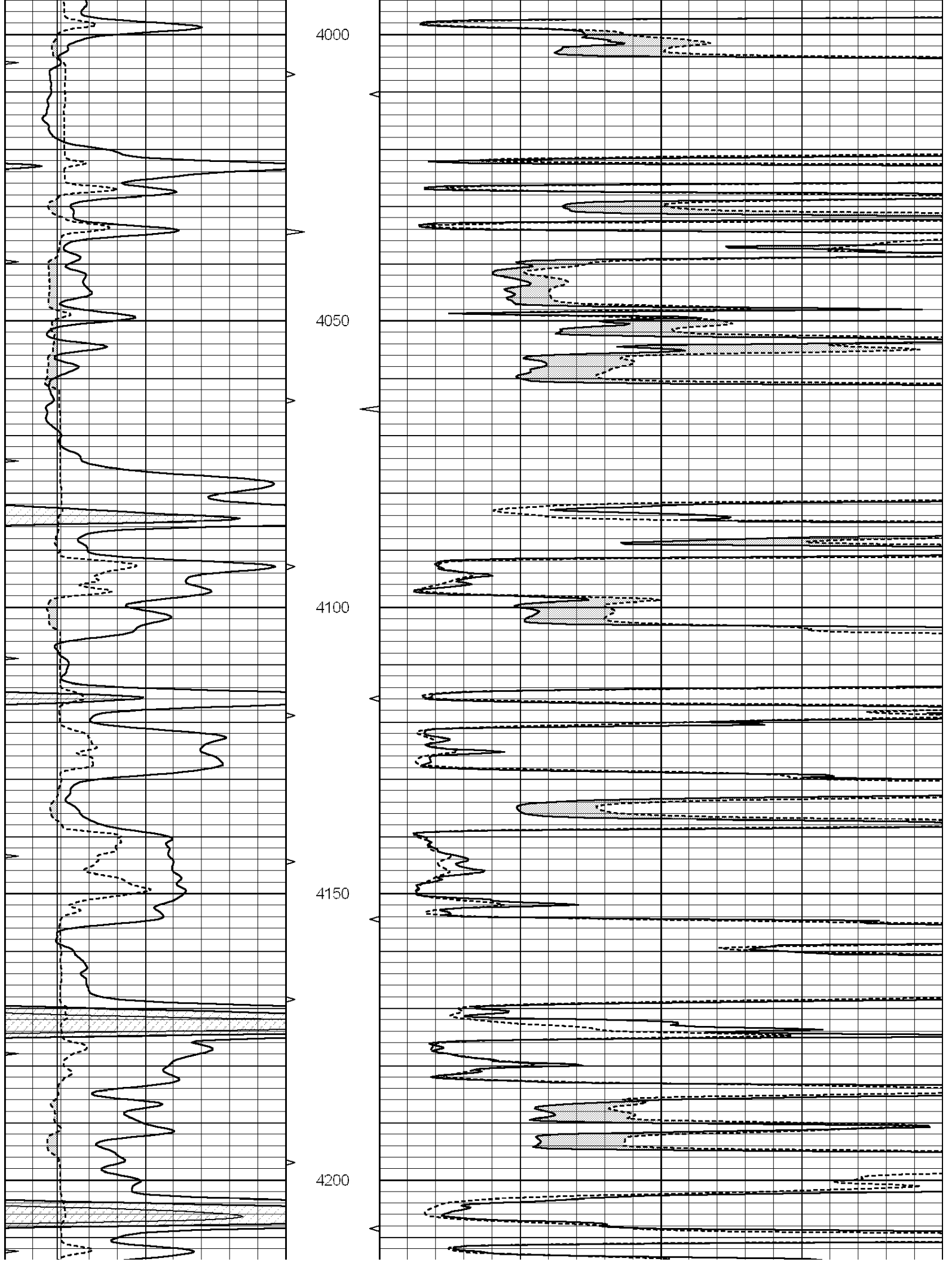
MAIN SECTION

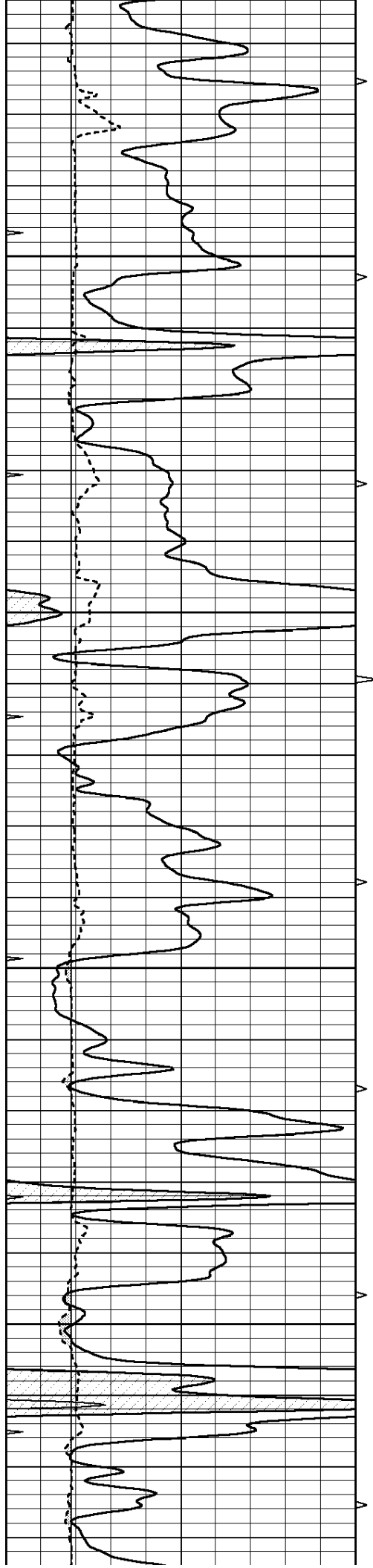
Database File: 31332ddn.db
 Dataset Pathname: pass6.1
 Presentation Format: micro
 Dataset Creation: Thu Oct 20 15:14:34 2016 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		







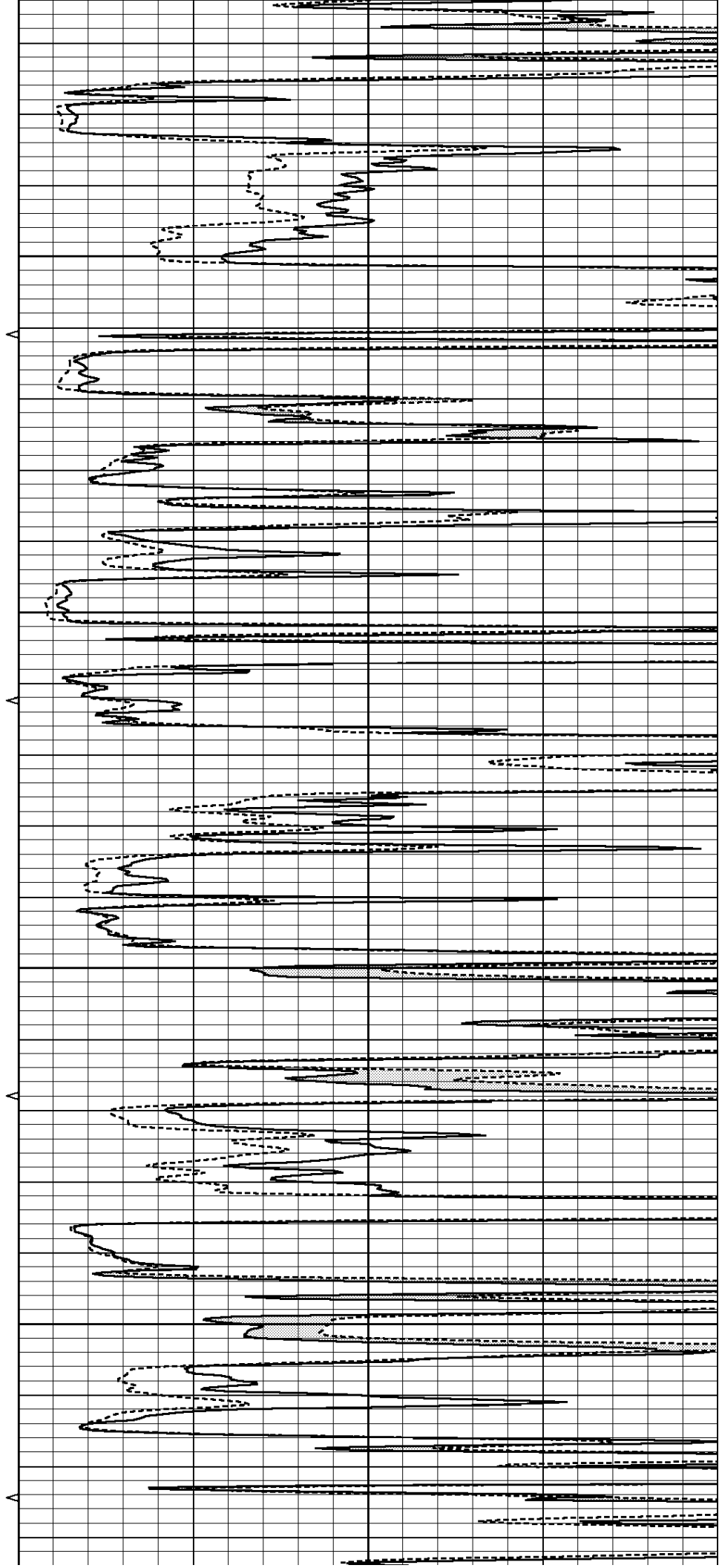


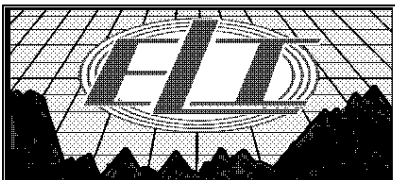
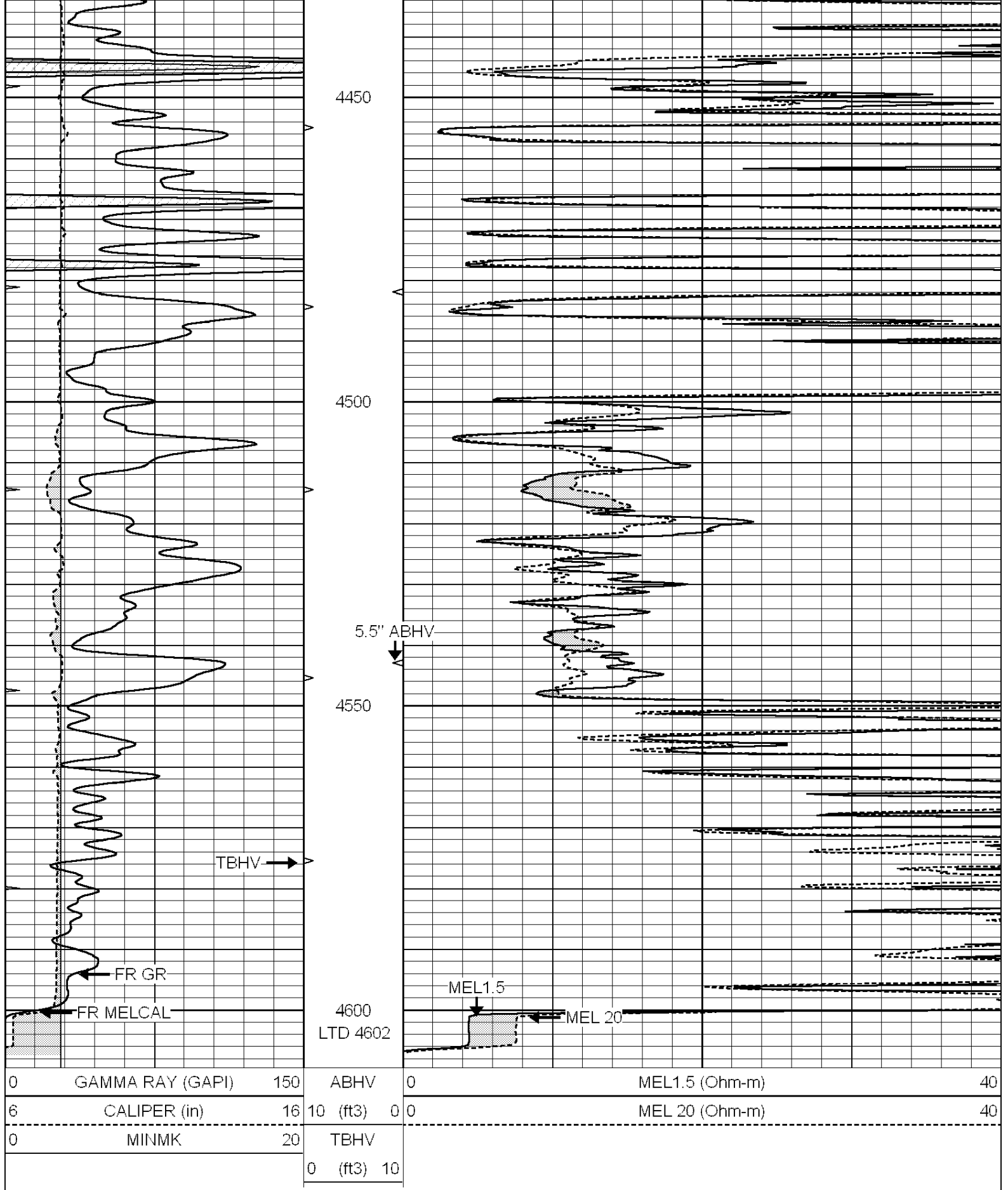
4250

4300

4350

4400

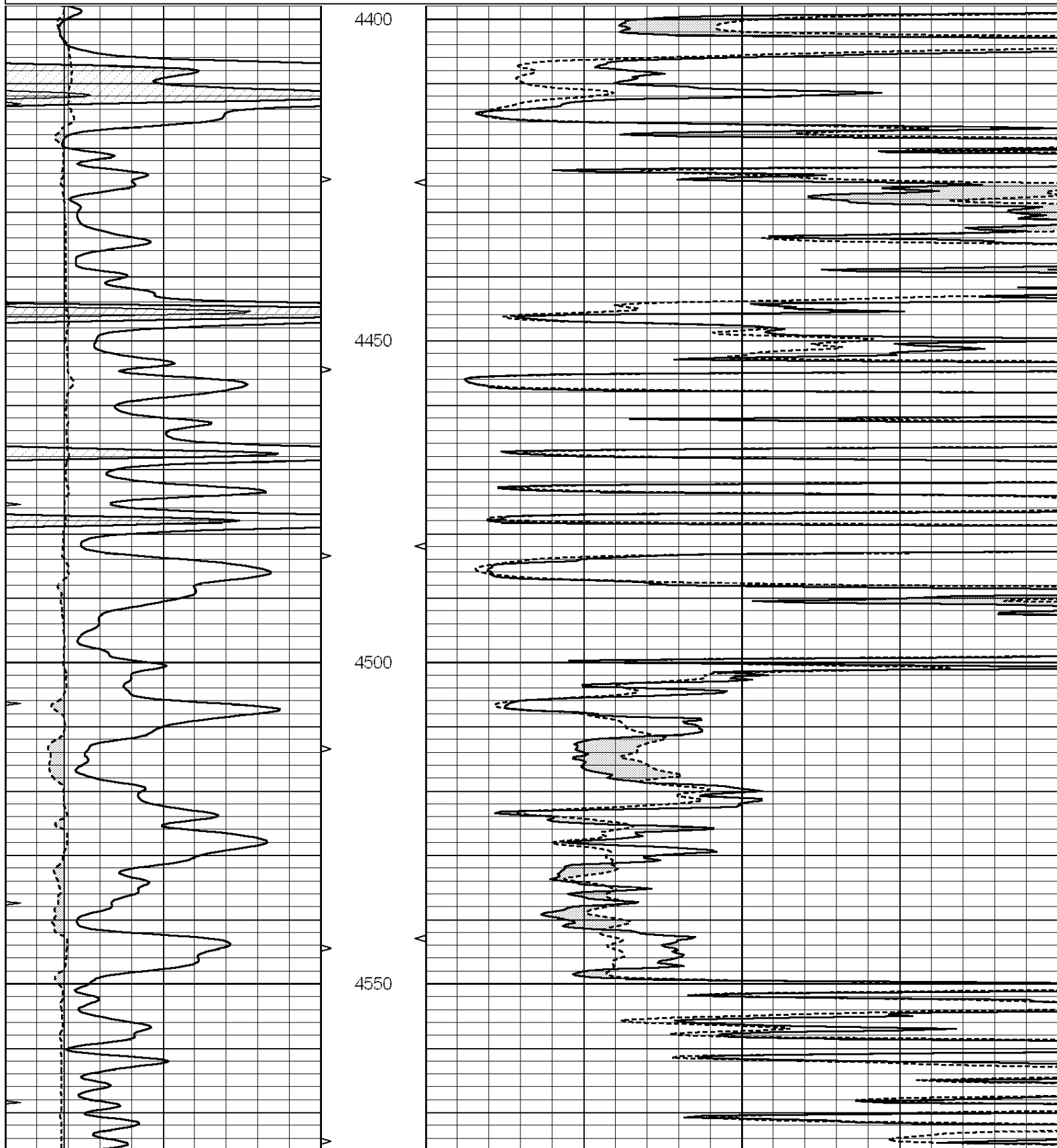


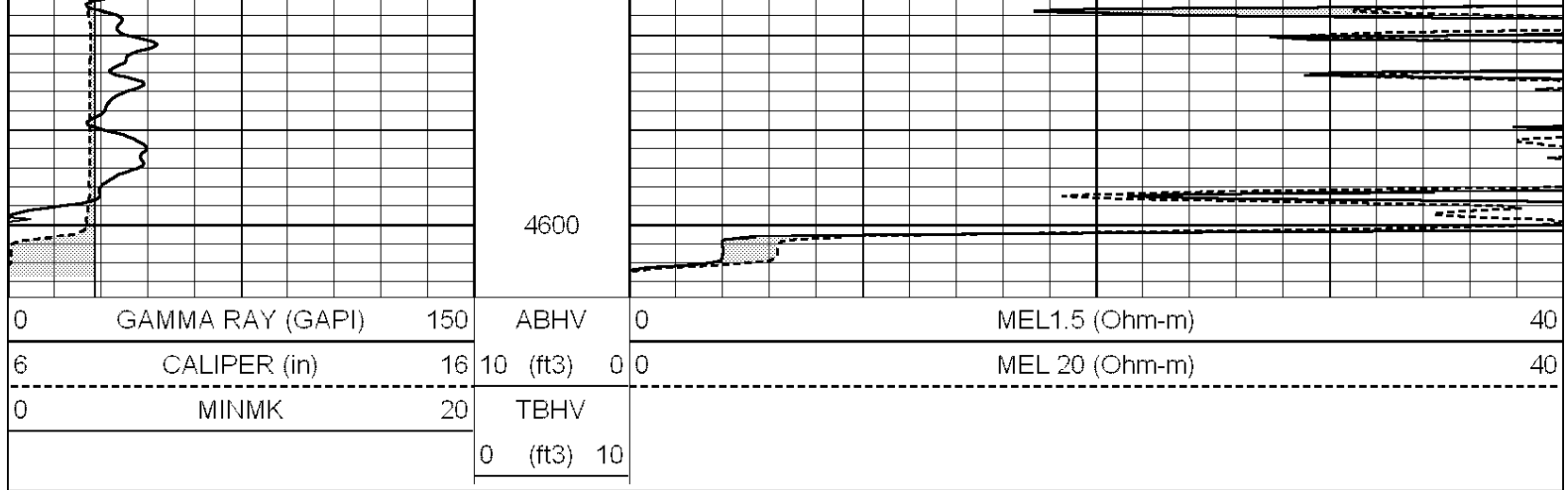


REPEAT SECTION

Database File: 31332ddn.db
 Dataset Pathname: pass5.1
 Presentation Format: micro
 Dataset Creation: Thu Oct 20 14:38:04 2016 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0 0	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		





Calibration Report

Database File: 31332ddn.db
 Dataset Pathname: pass6.1
 Dataset Creation: Thu Oct 20 15:14:34 2016 by Calc SOC 120430

MICRO Calibration Report

Serial Number: 070910
 Tool Model: ProbeN
 Performed: Wed Sep 21 21:24:37 2016

Caliper Calibration: Gain=5.163 Offset=-0.404

	Low Cal	High Cal
References	7.200	16.000
Readings	1.473	3.178

1.5" Calibration: Gain=35.000 Offset=-0.200

	Low Cal	High Cal
References	0.000	20.000
Readings	0.000	1.216

2" Calibration: Gain=42.000 Offset=-0.500

	Low Cal	High Cal
References	0.000	20.000
Readings	0.002	1.053

Gamma Ray Calibration Report

Serial Number: 070559
 Tool Model: OPEN_GR
 Performed: Thu Oct 20 14:05:31 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.2200 GAPI/cps



**Cement
Bond
Log**

Company	Becker Oil Corporation	Company	Becker Oil Corporation
Well	Ottley #2	Well	Ottley #2
Field	Campus Siding North	Field	Campus Siding North
County	Thomas	County	Thomas
State	KS	State	KS
Date	11-2-2016	Location:	API #: 15-193-20974-0000 1750' FNL & 890' FWL SW-NE-SW-NW
Run Number	One	Permanent Datum	SEC 36 TWP 10S RGE 31W
Depth Driller	4600'	Ground Level	Elevation 2892'
Depth Logger	4585'	Log Measured From	Kelly Bushing 8' AGL
Bottom Logged Interval	4584'	Drilling Measured From	KB
Top Log Interval	Surface	Elevation	K.B. 2900' D.F. 2898' G.L. 2892'
Open Hole Size	7 7/8"		
Type Fluid	Water		
Density / Viscosity	////		
Max. Recorded Temp.	////		
Estimated Cement Top	Surface		
Time Well Ready	R.O.A		
Time Logger on Bottom	8:20 AM		
Equipment Number	T-968		
Location	Hays, KS		
Recorded By	Casey P.		
Witnessed By	Mr. Jerry Alley		

Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size	Wd/Ft	Top	Bottom			
Surface String	8 5/8"	26#	0'	226'			
Prot. String							
Production String	5 1/2"	15.5#	0'	4599'			
Liner							

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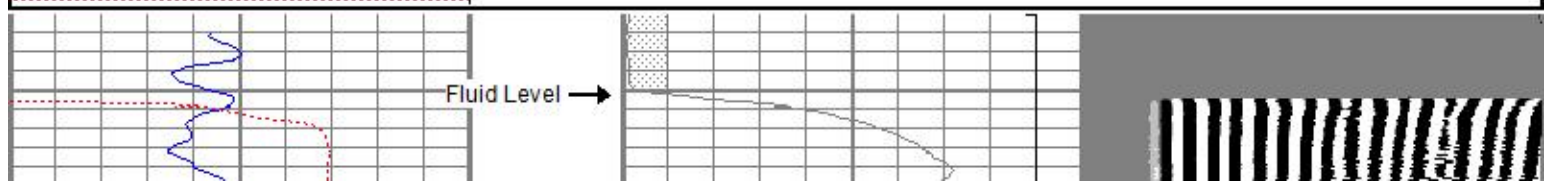
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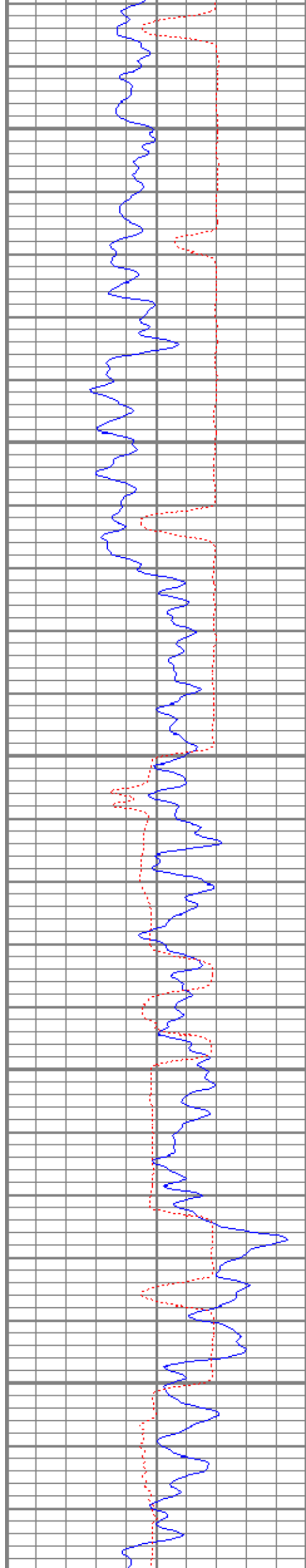
Comments

**Exit 79 east of Oakley,
2 miles North, East into
(road goes on correction with in that to 2mi just stay on it)**

Database File bocottley#2cbl.db
 Dataset Pathname pass2
 Presentation Format cbl
 Dataset Creation Wed Nov 02 08:14:06 2016
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	18	CCL	-2	200	VDL	1200
150	GR (GAPI)	300	0	AMP3FT (mV)	100			
400	TT3FT (usec)	200						





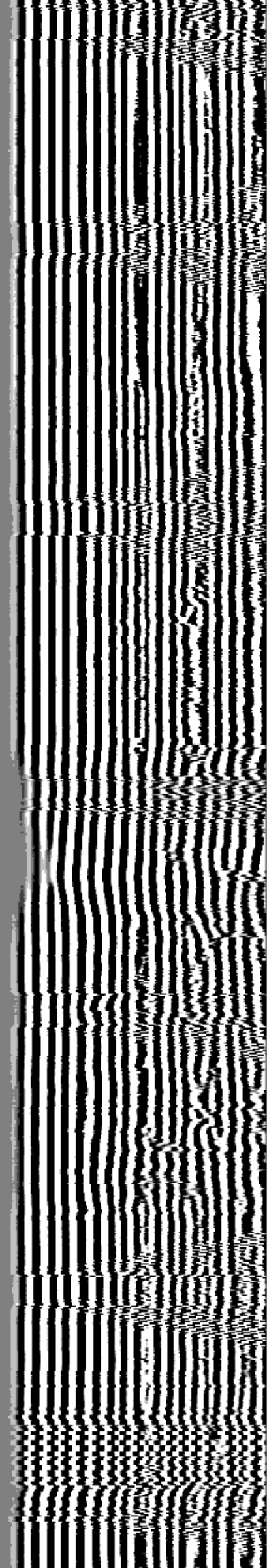
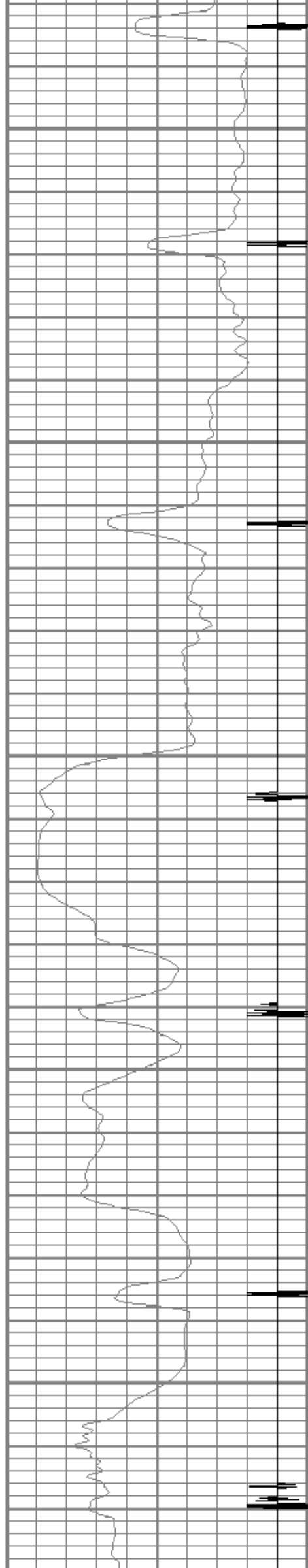
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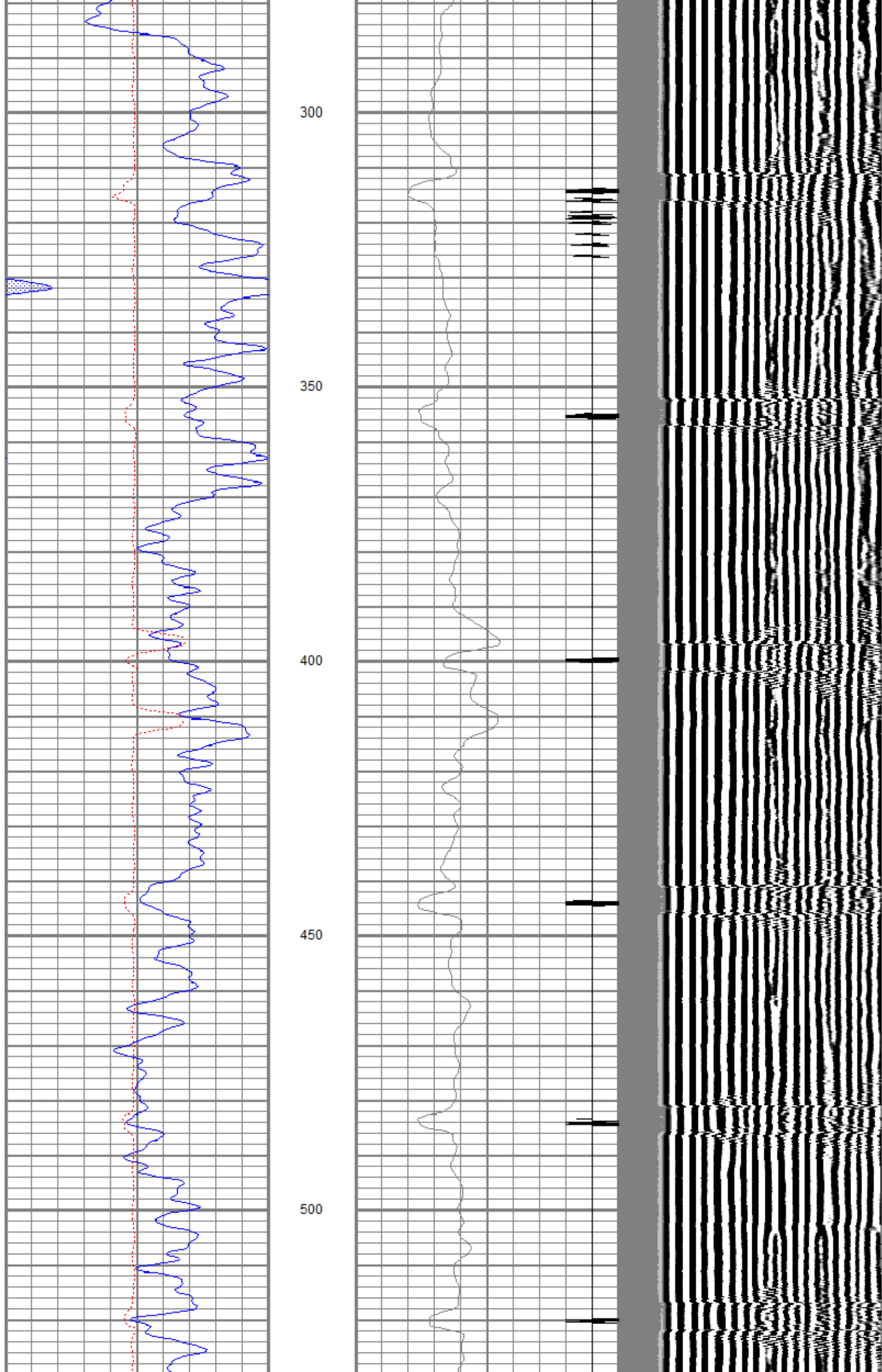
100

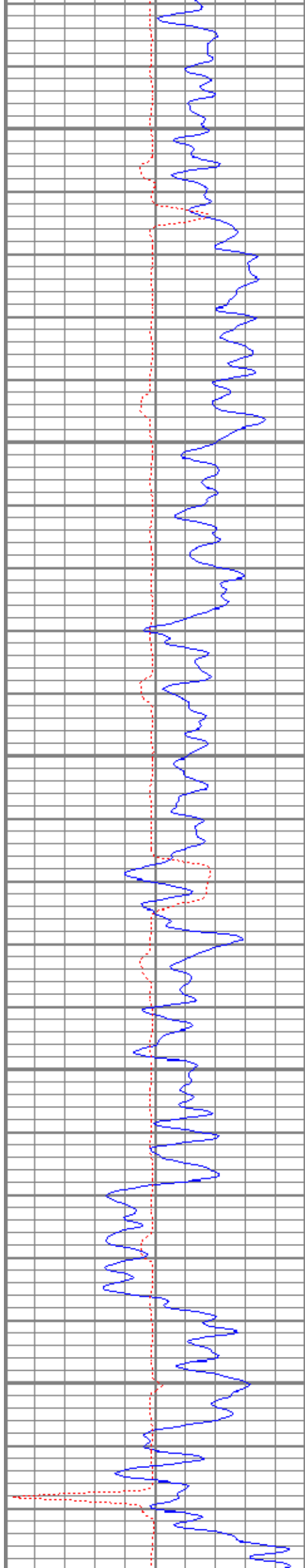
150

200

250







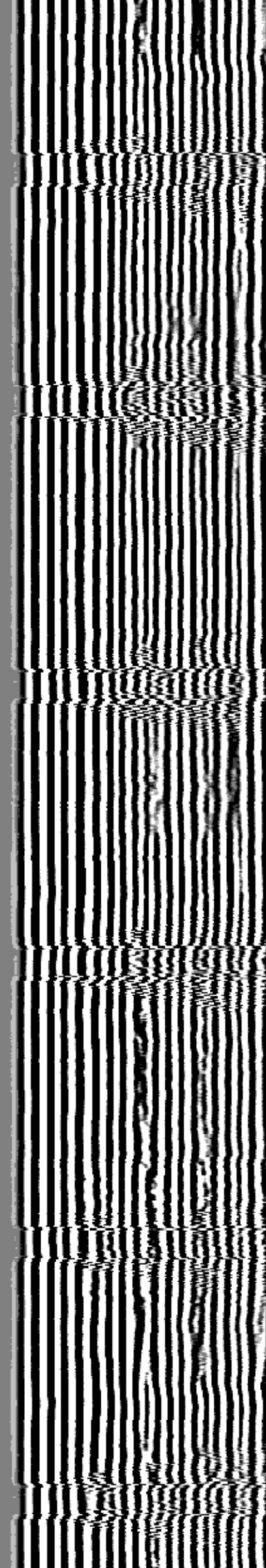
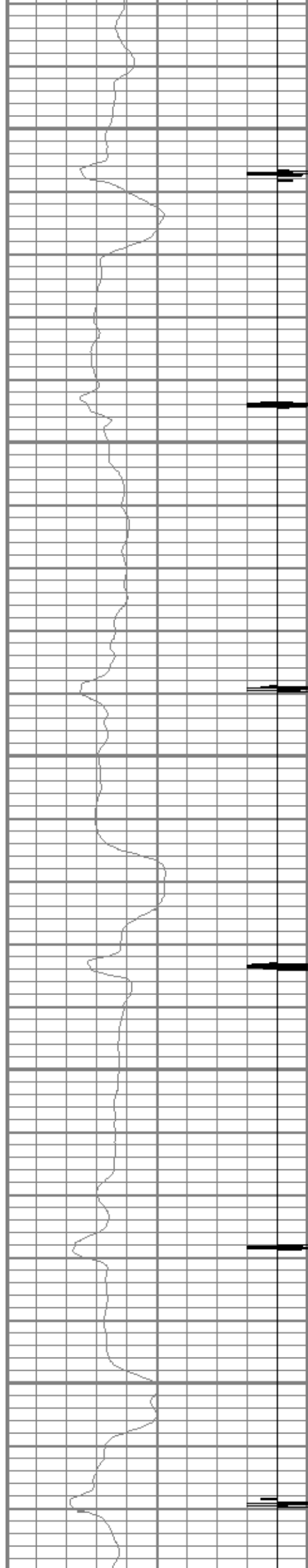
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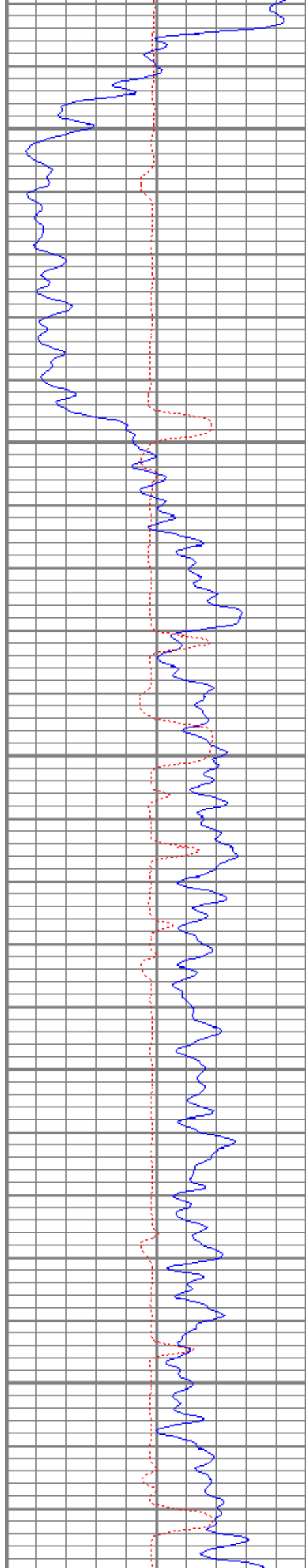
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650

700

750





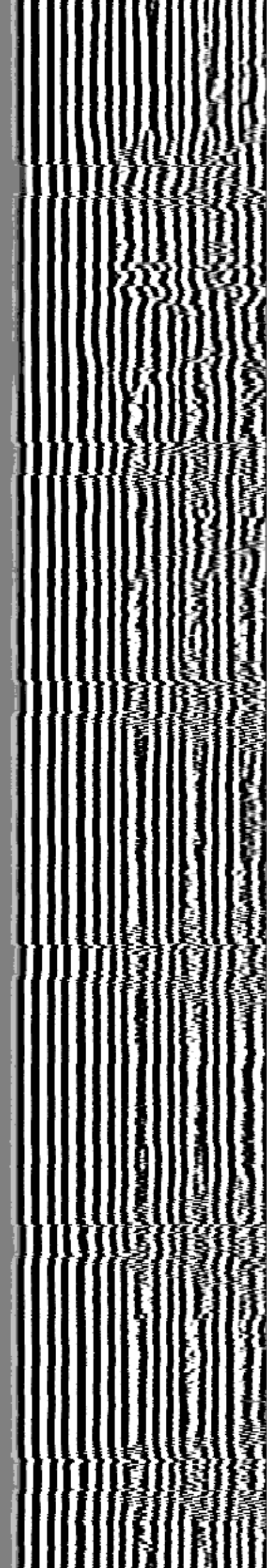
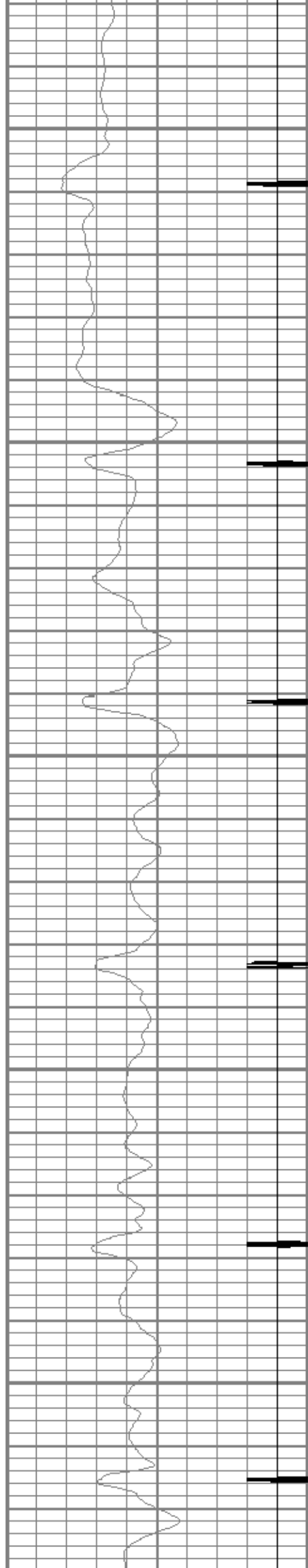
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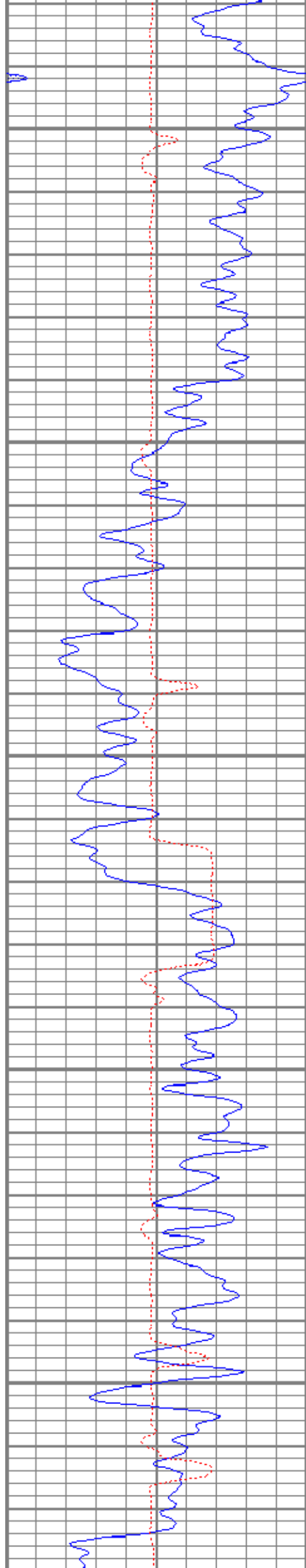
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900

950

1000





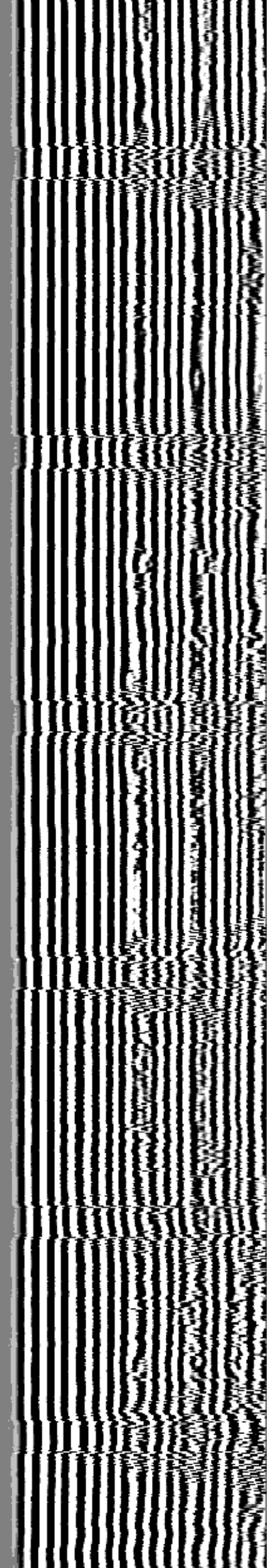
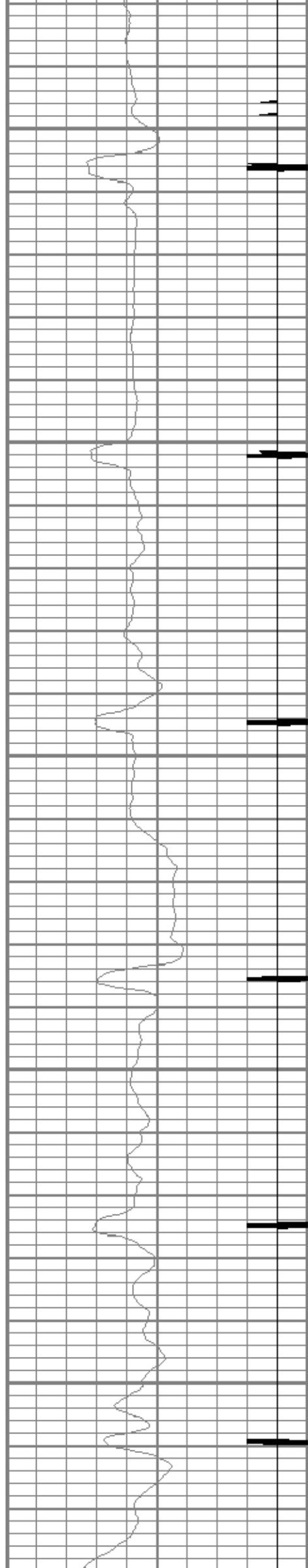
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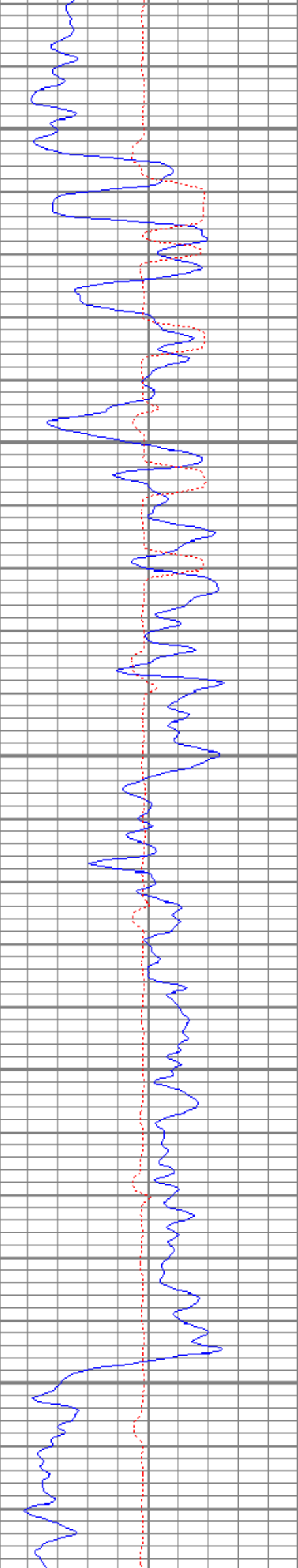
1100

1150

1200

1250





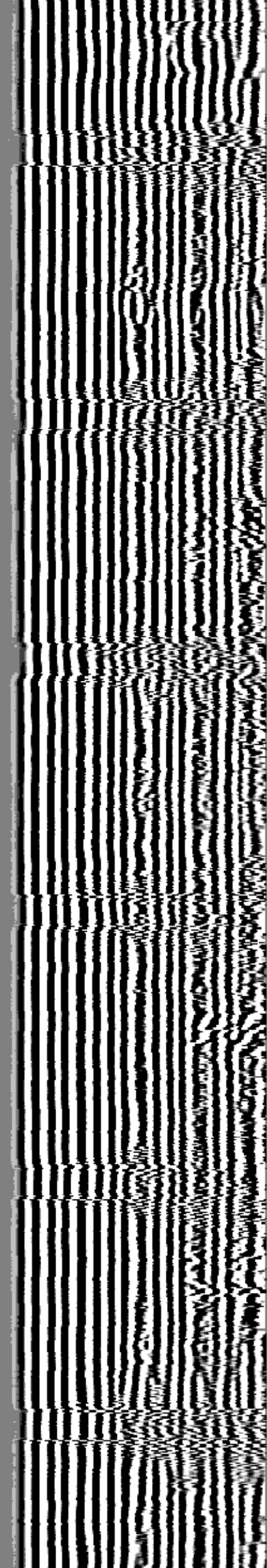
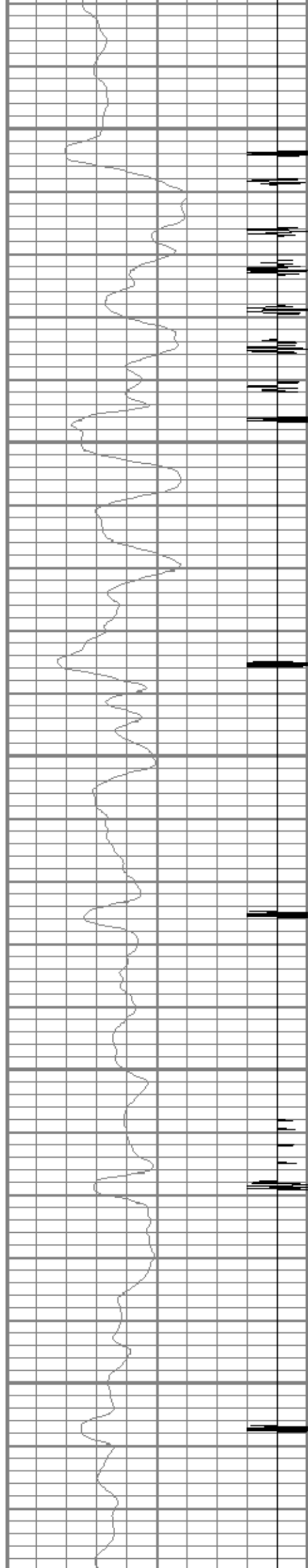
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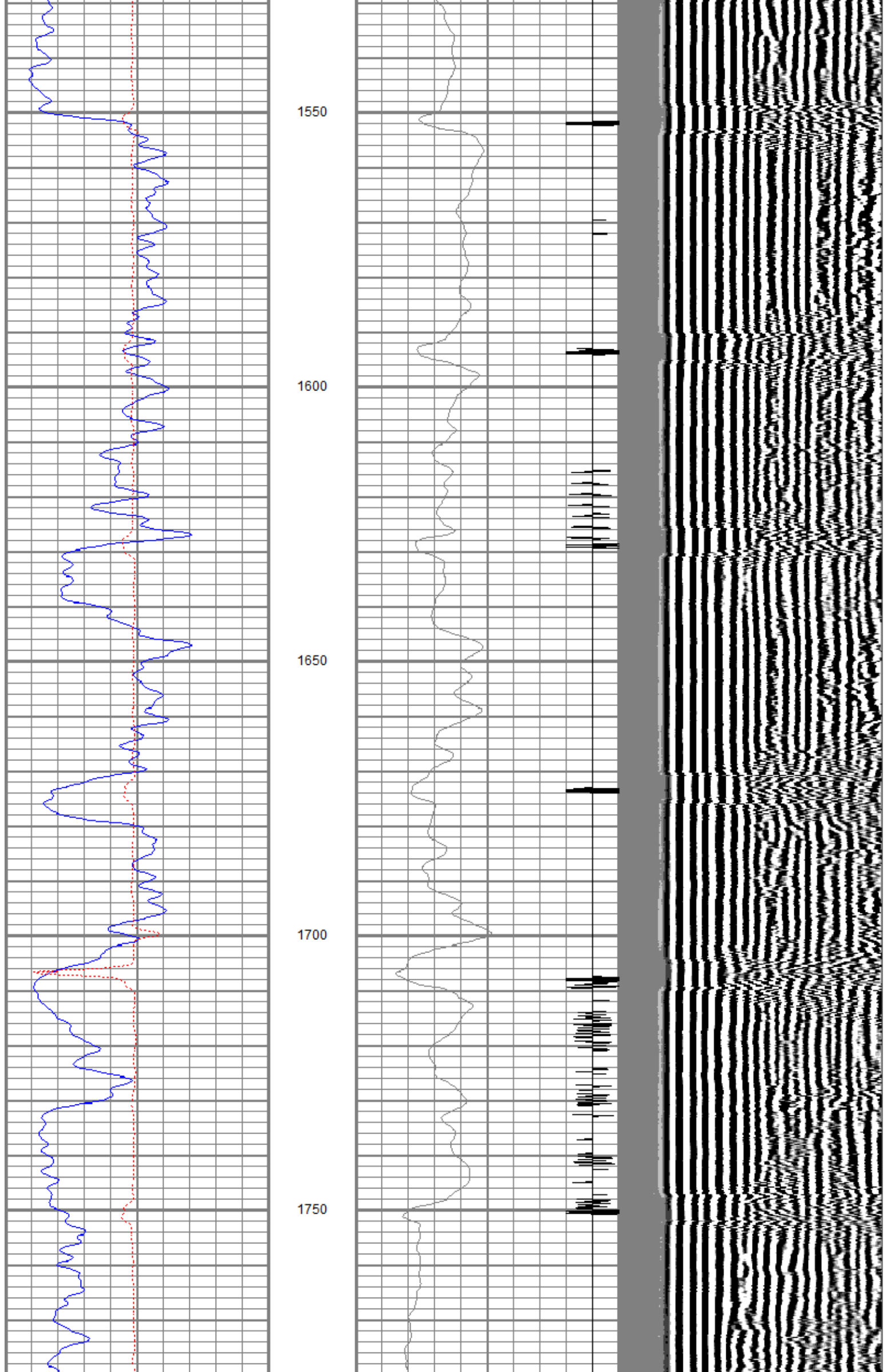
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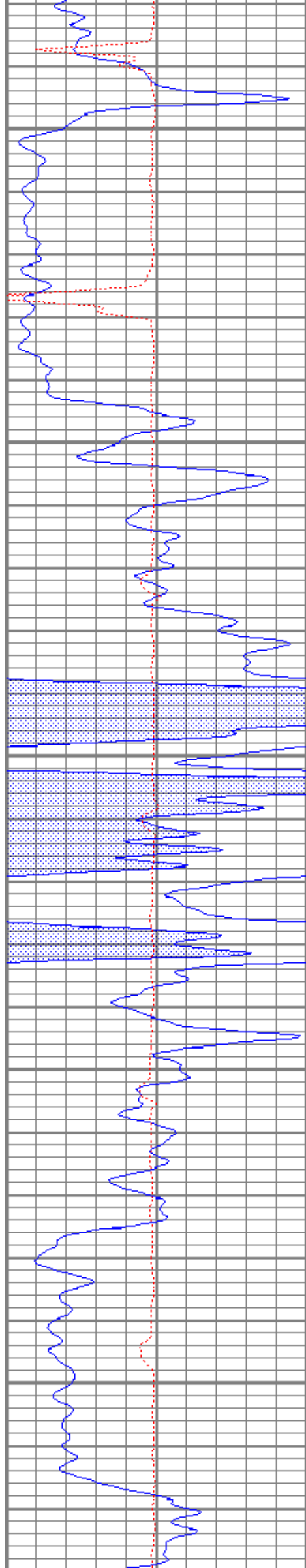
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1450

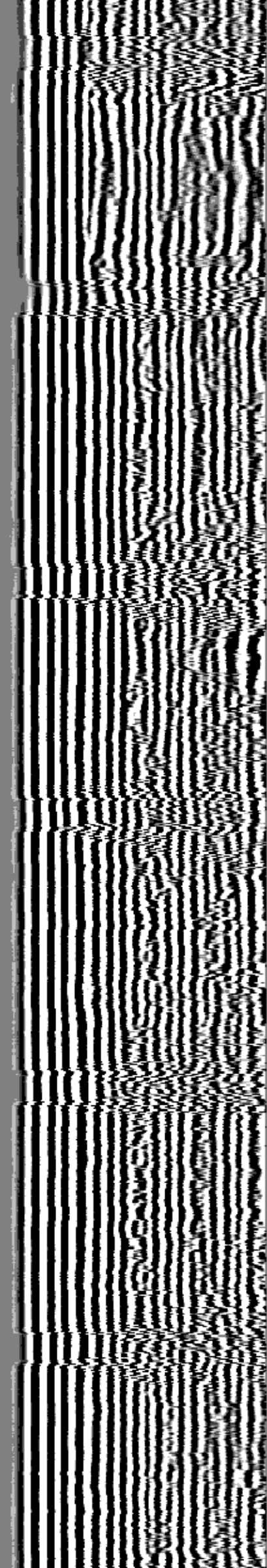
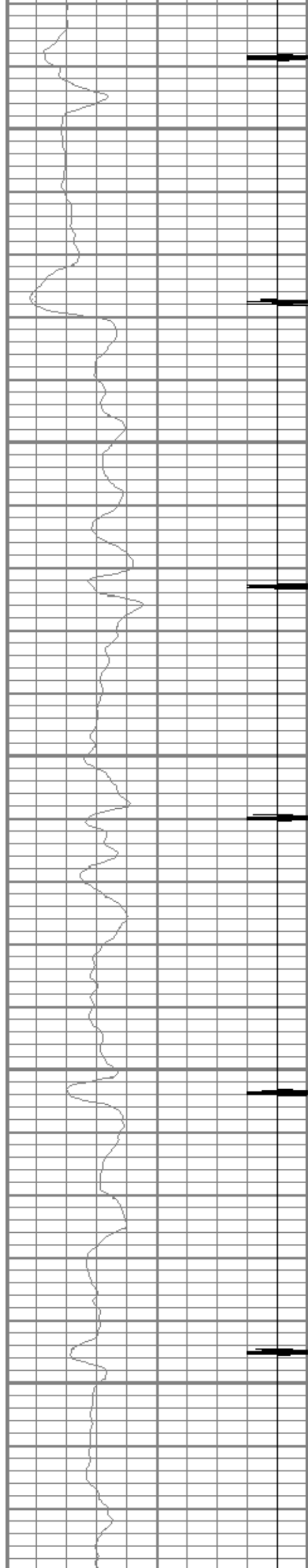
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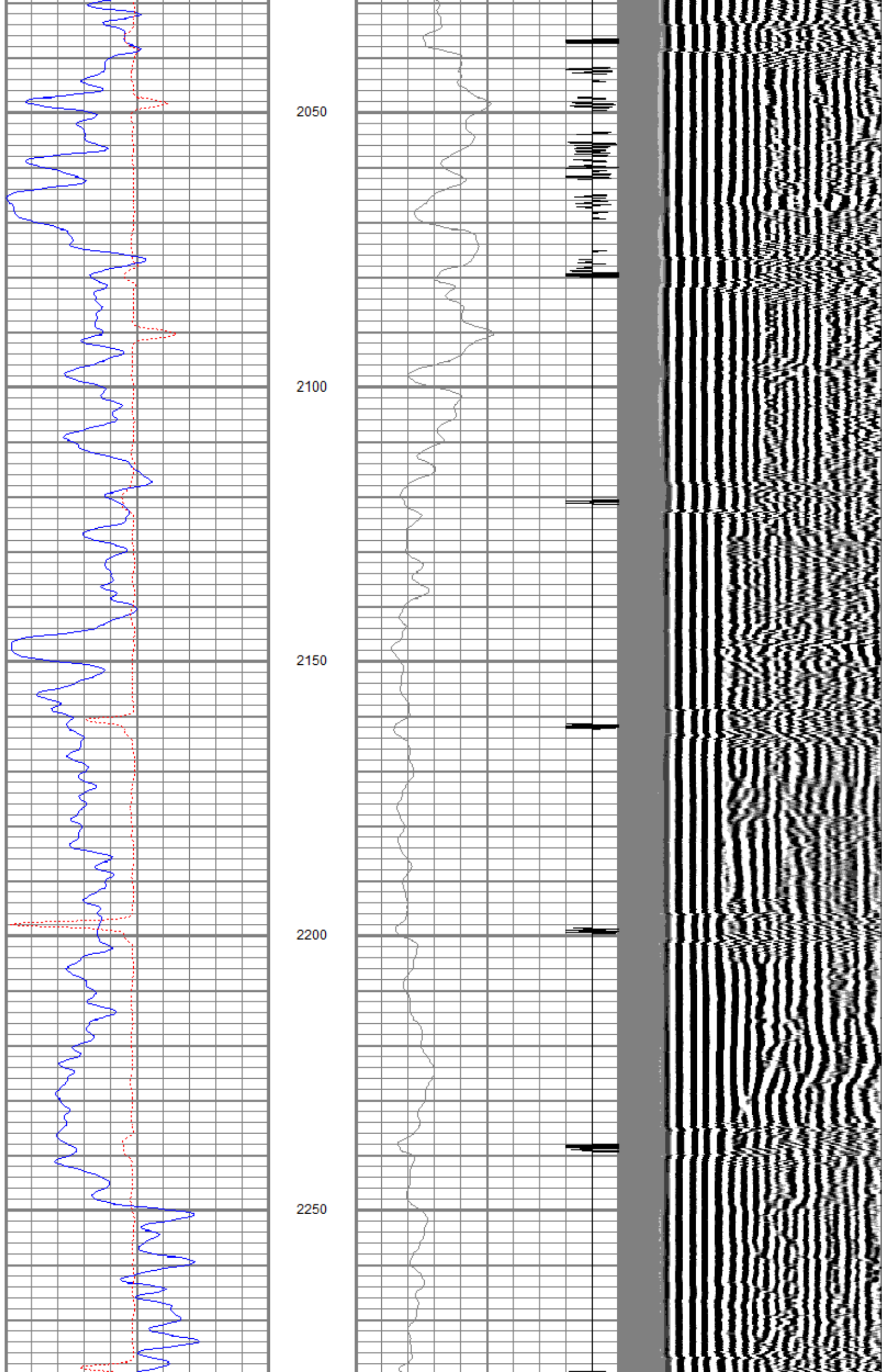


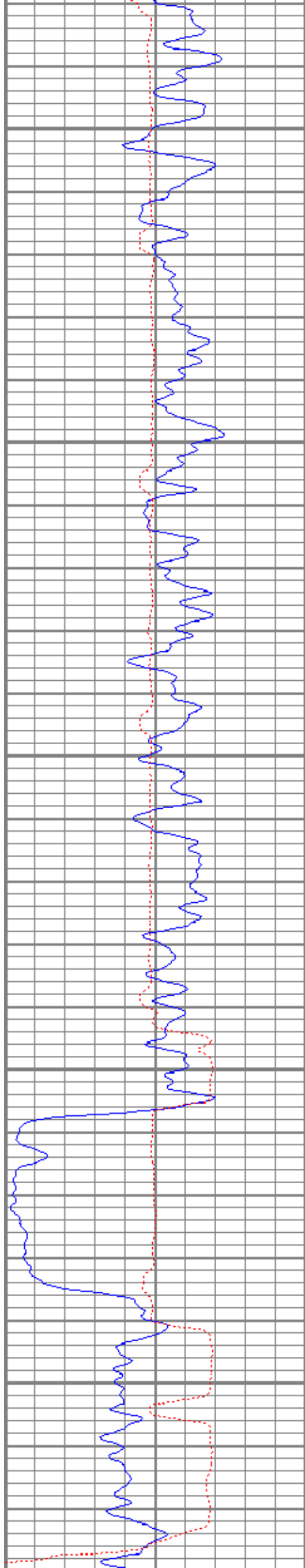




1800
1850
1900
1950
2000







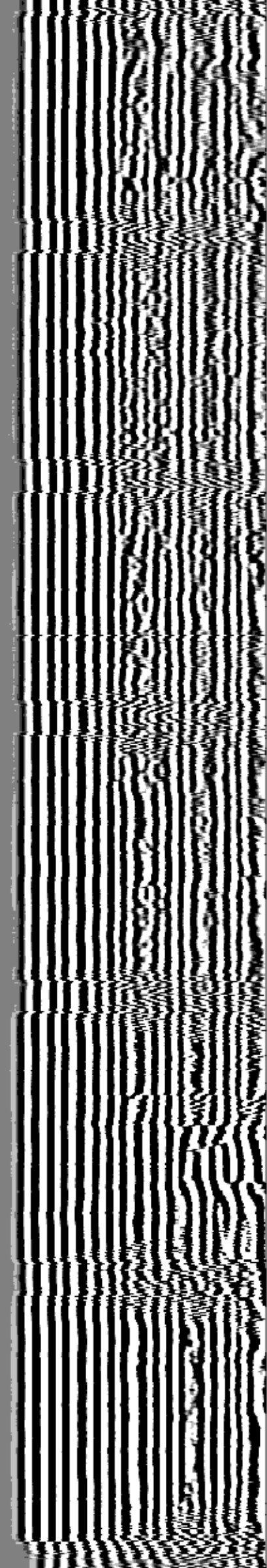
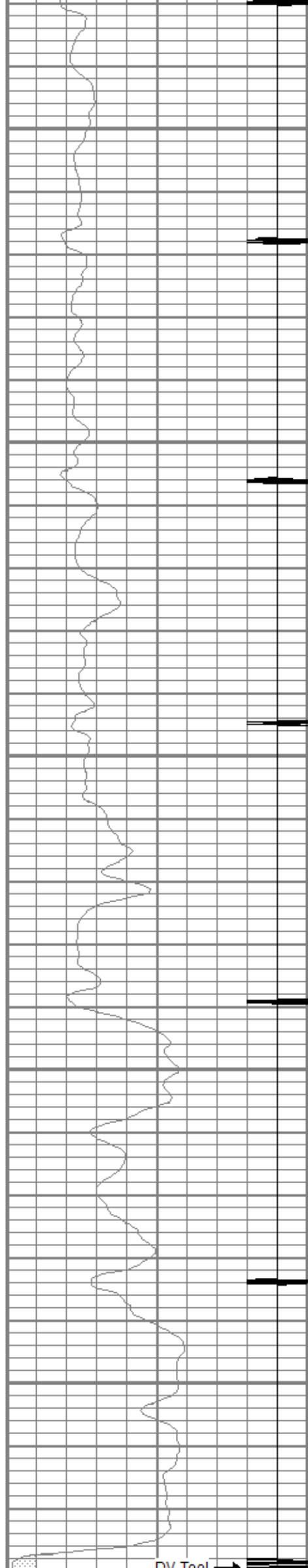
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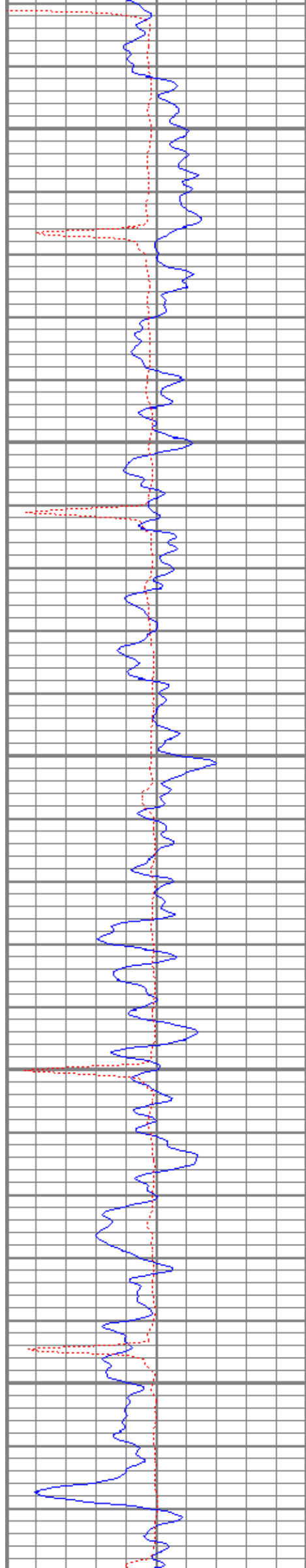
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2400

2450

2500





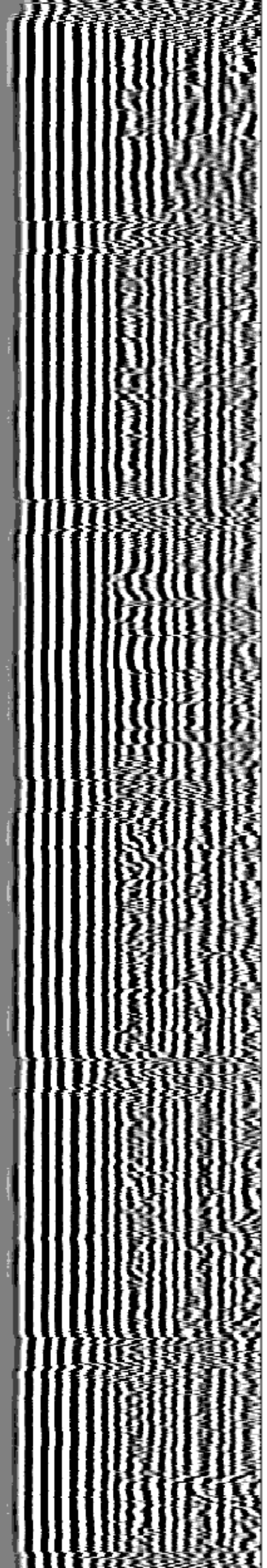
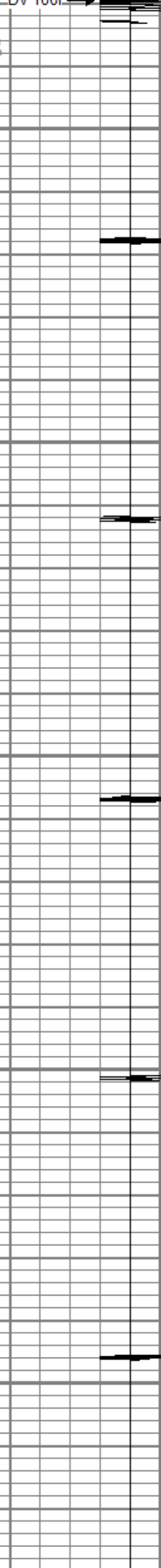
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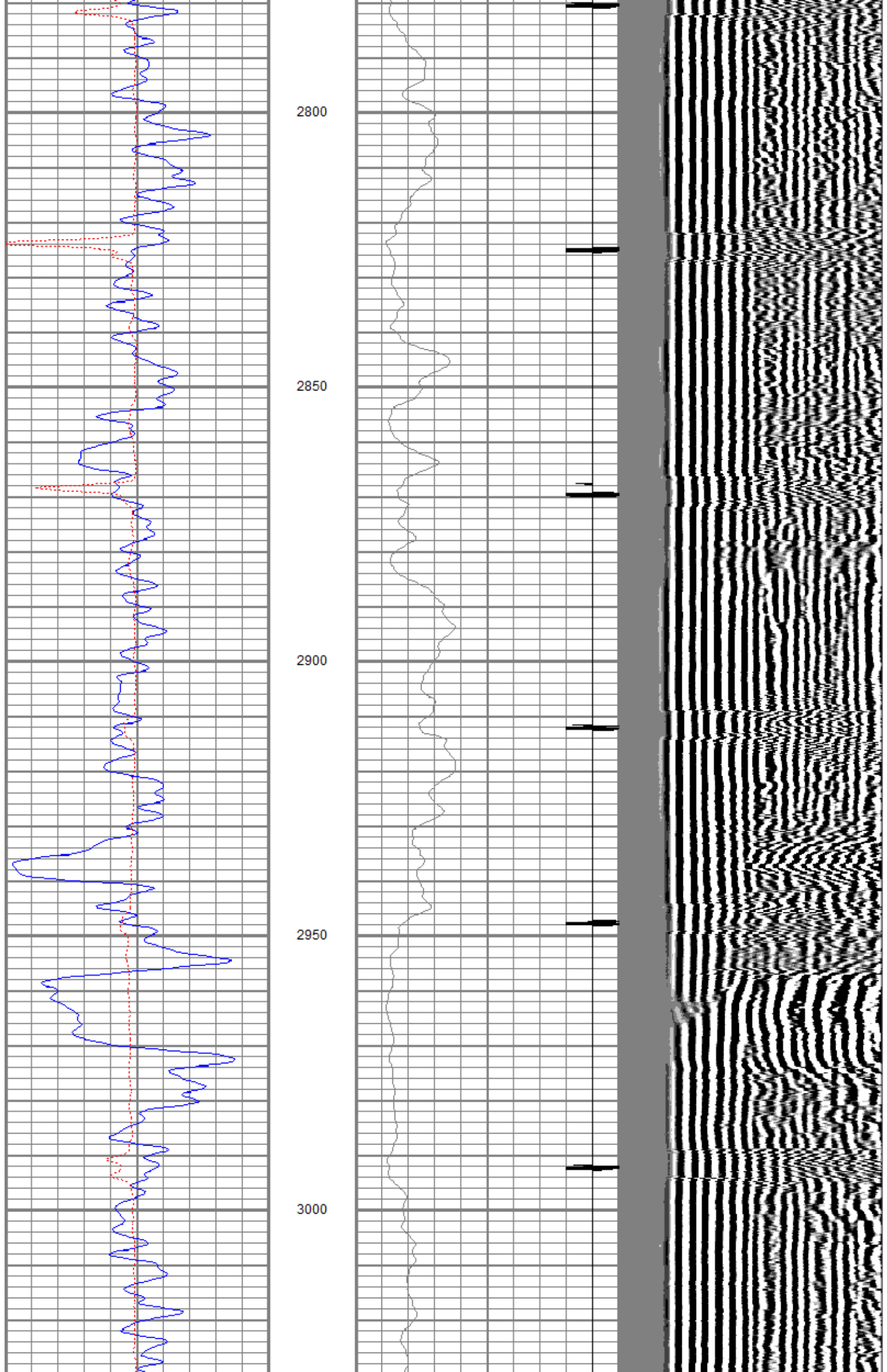
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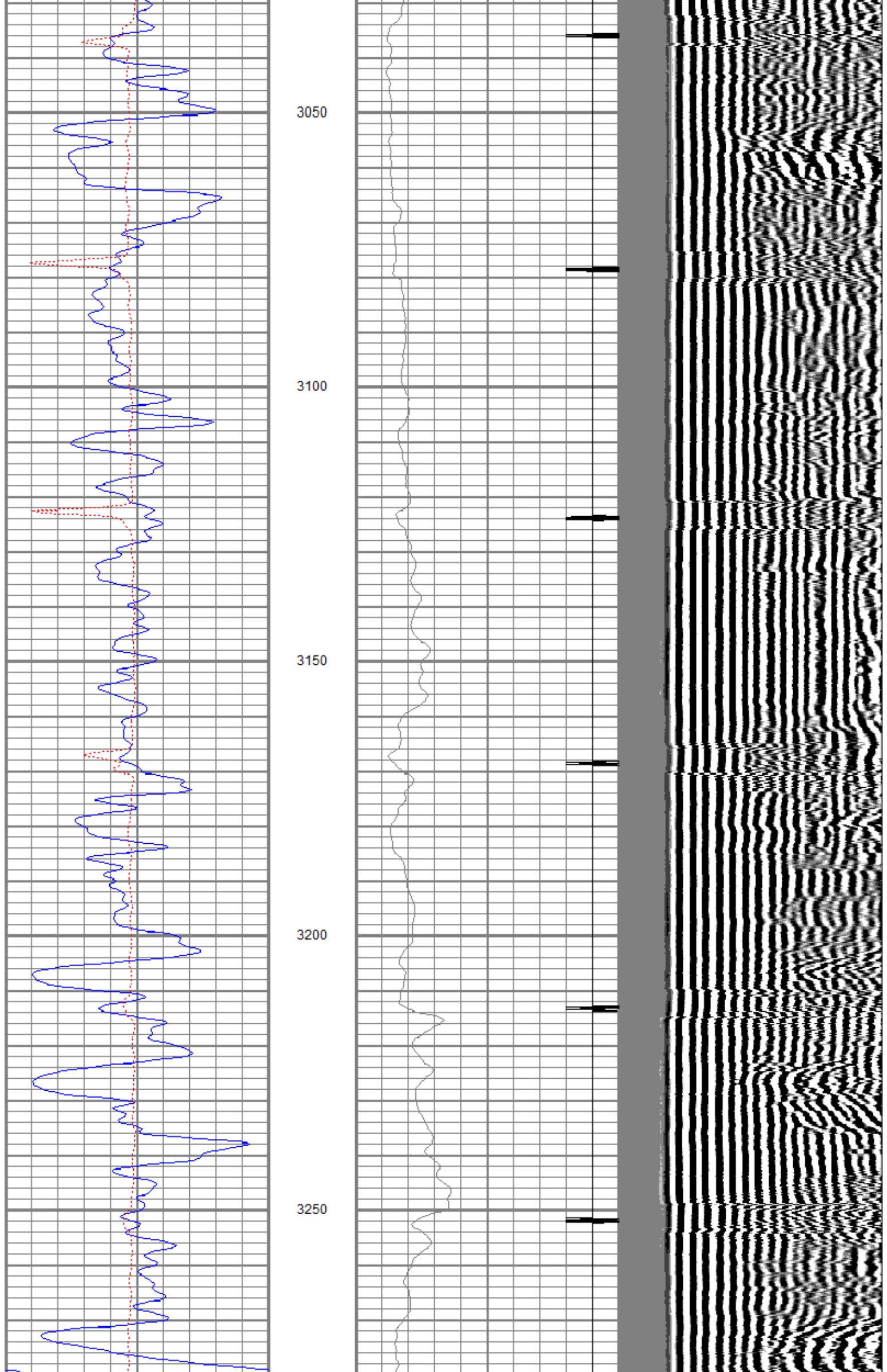
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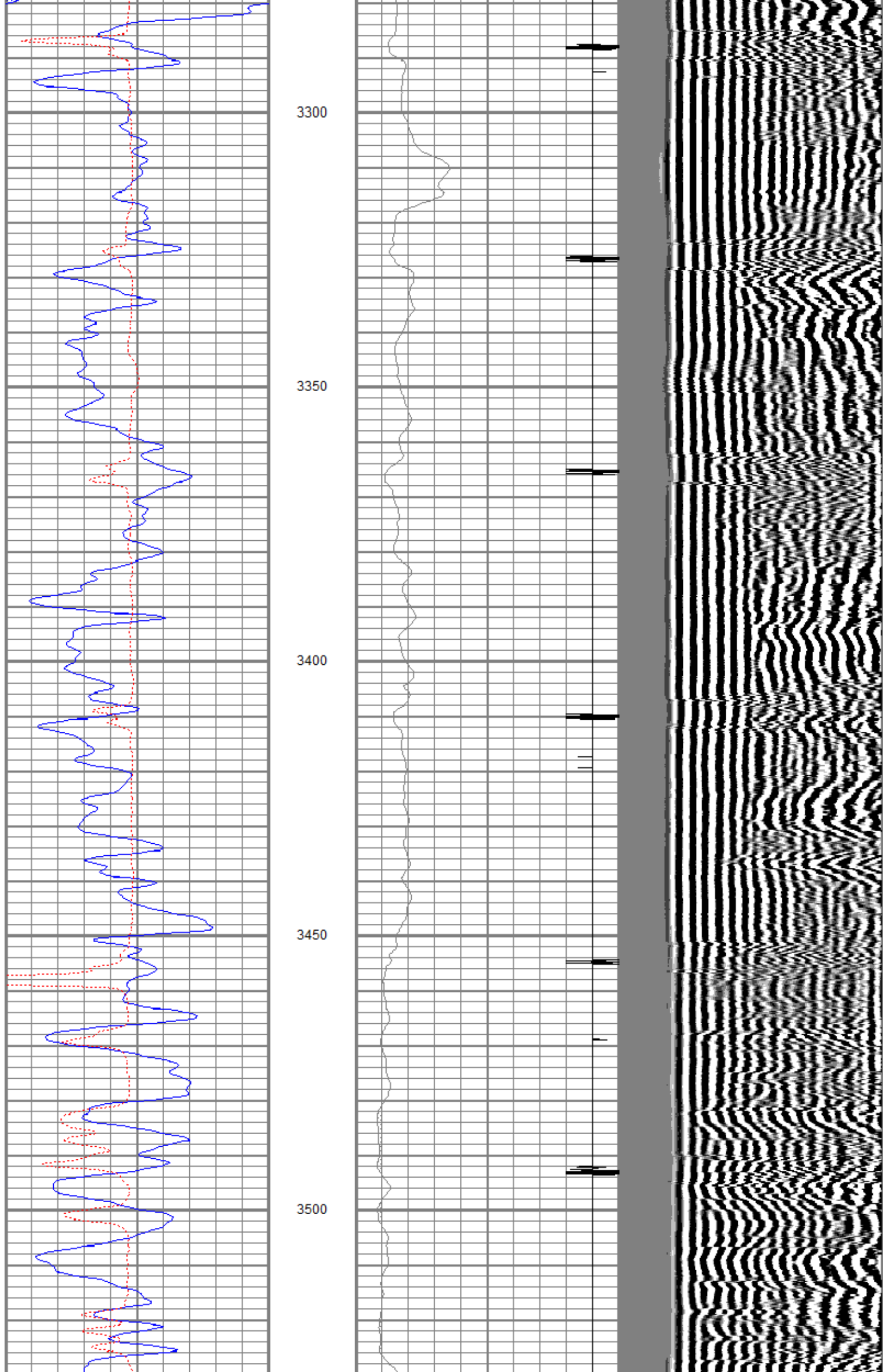
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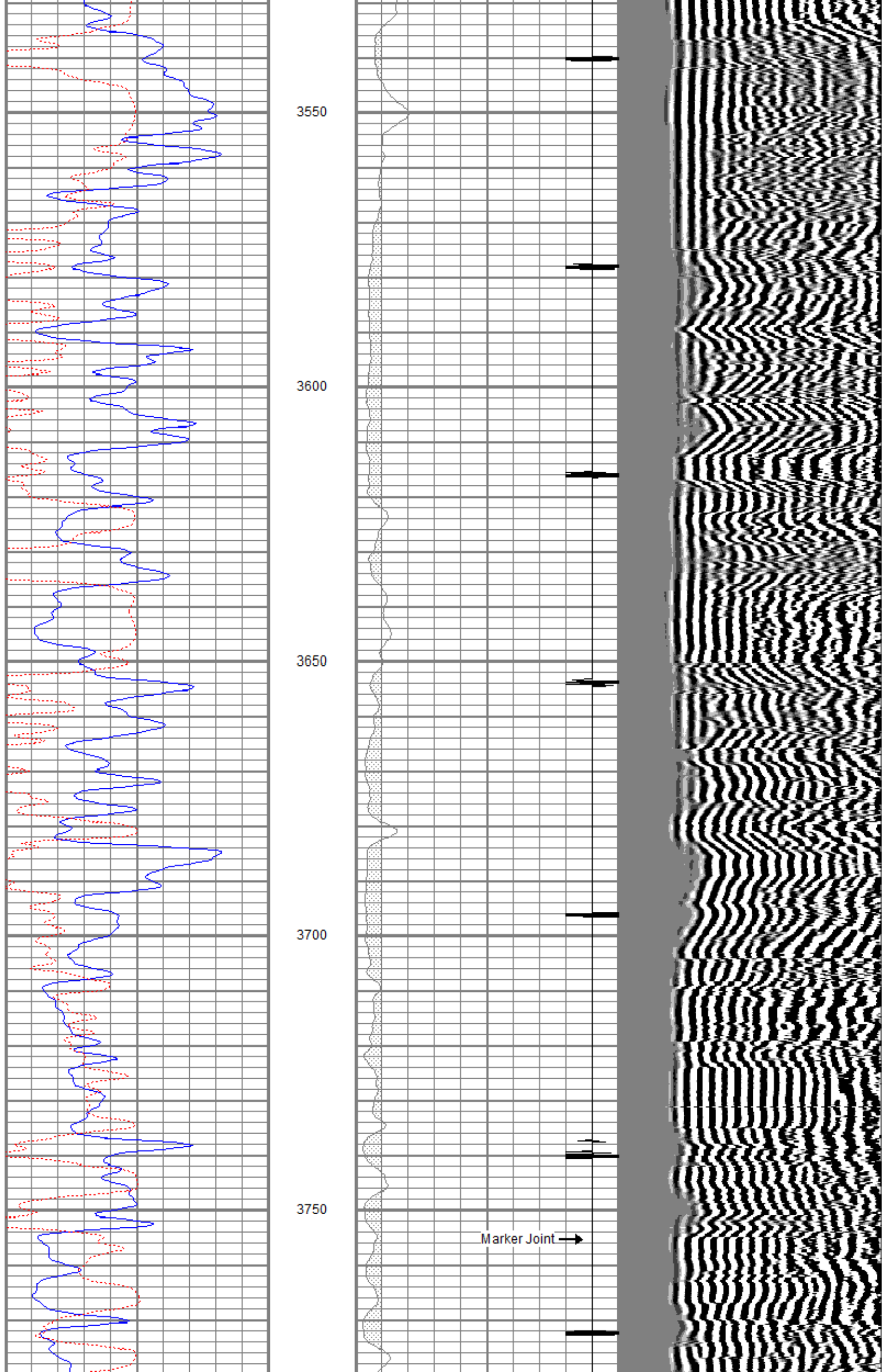
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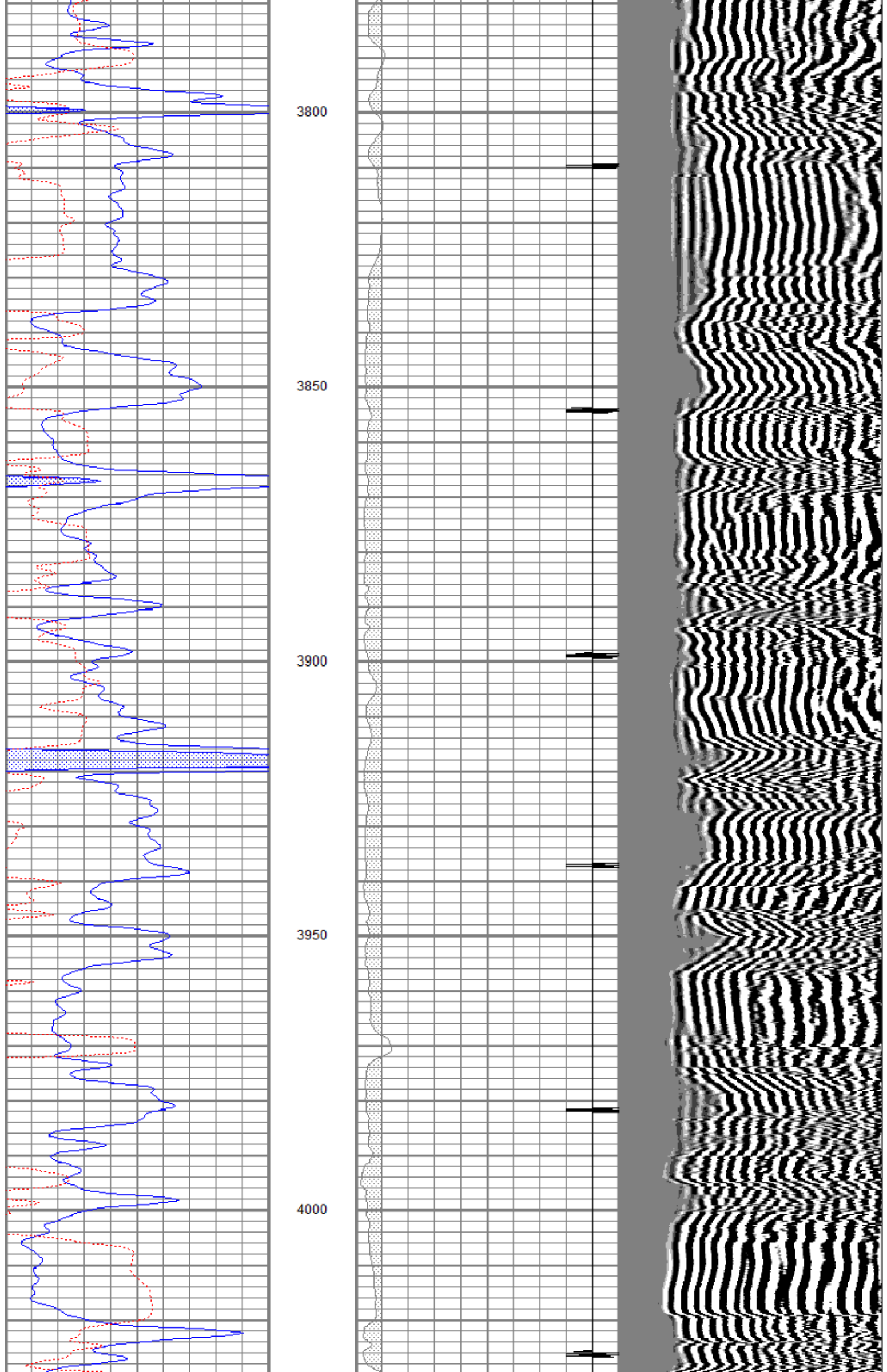


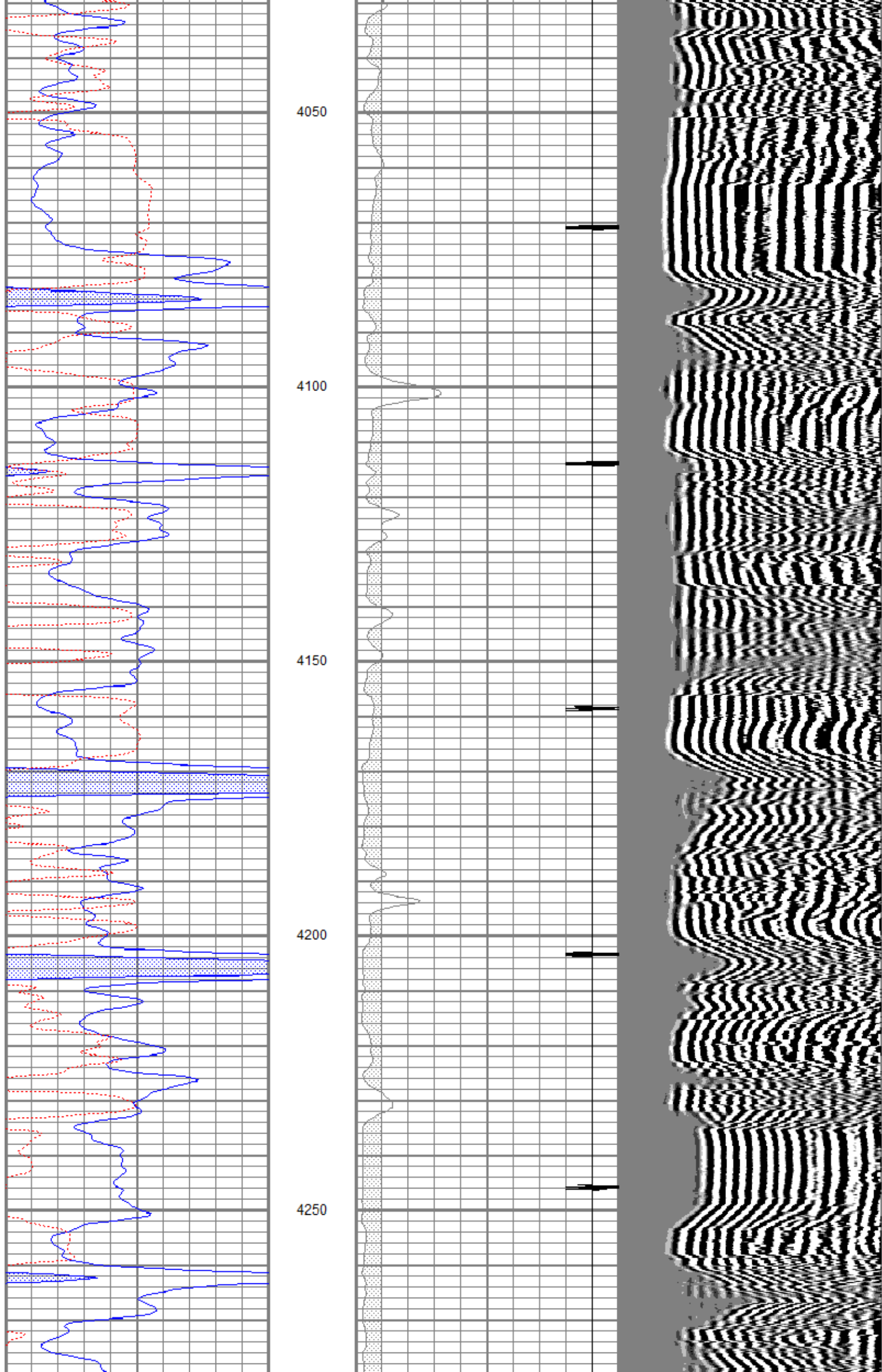


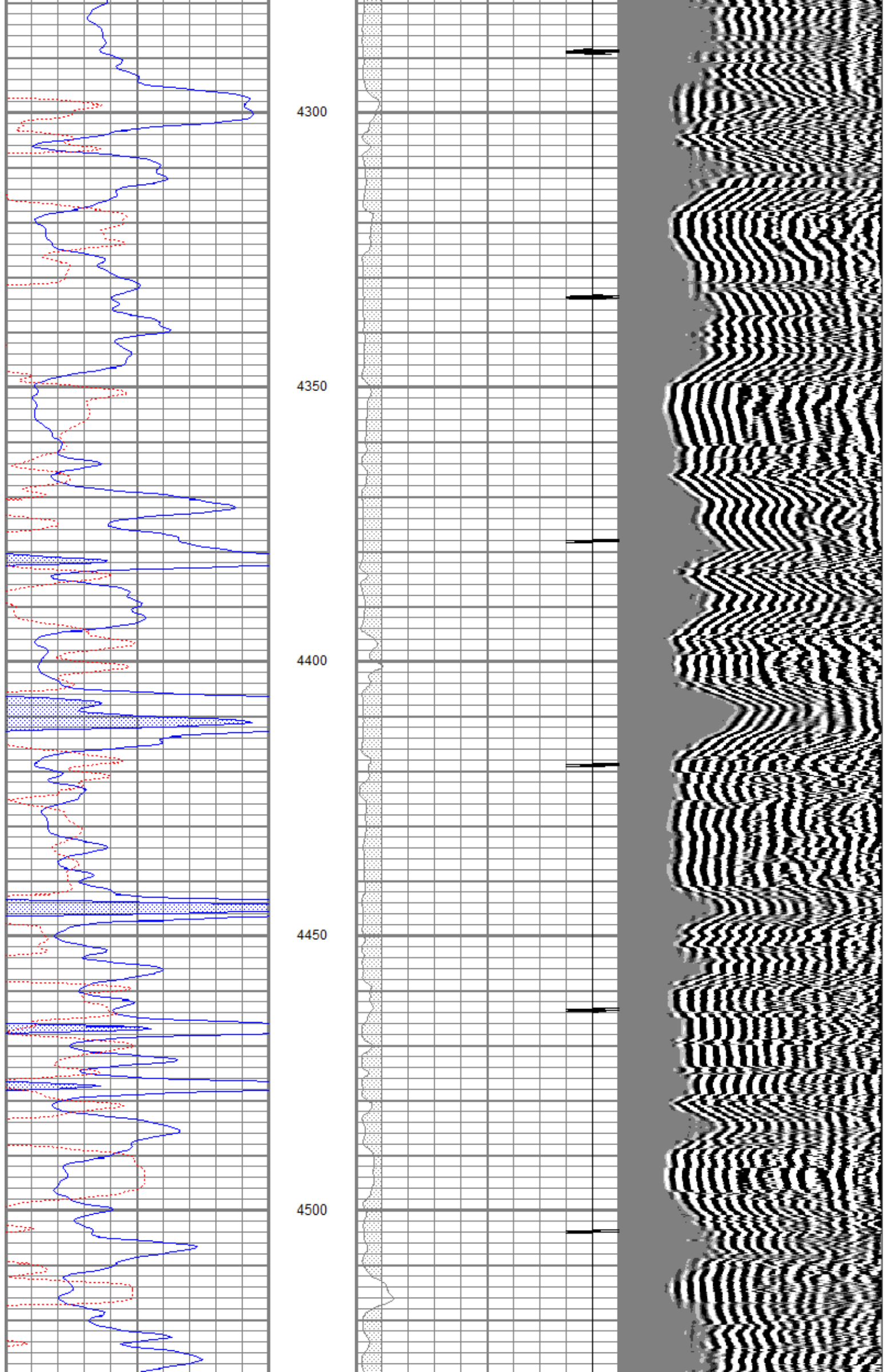


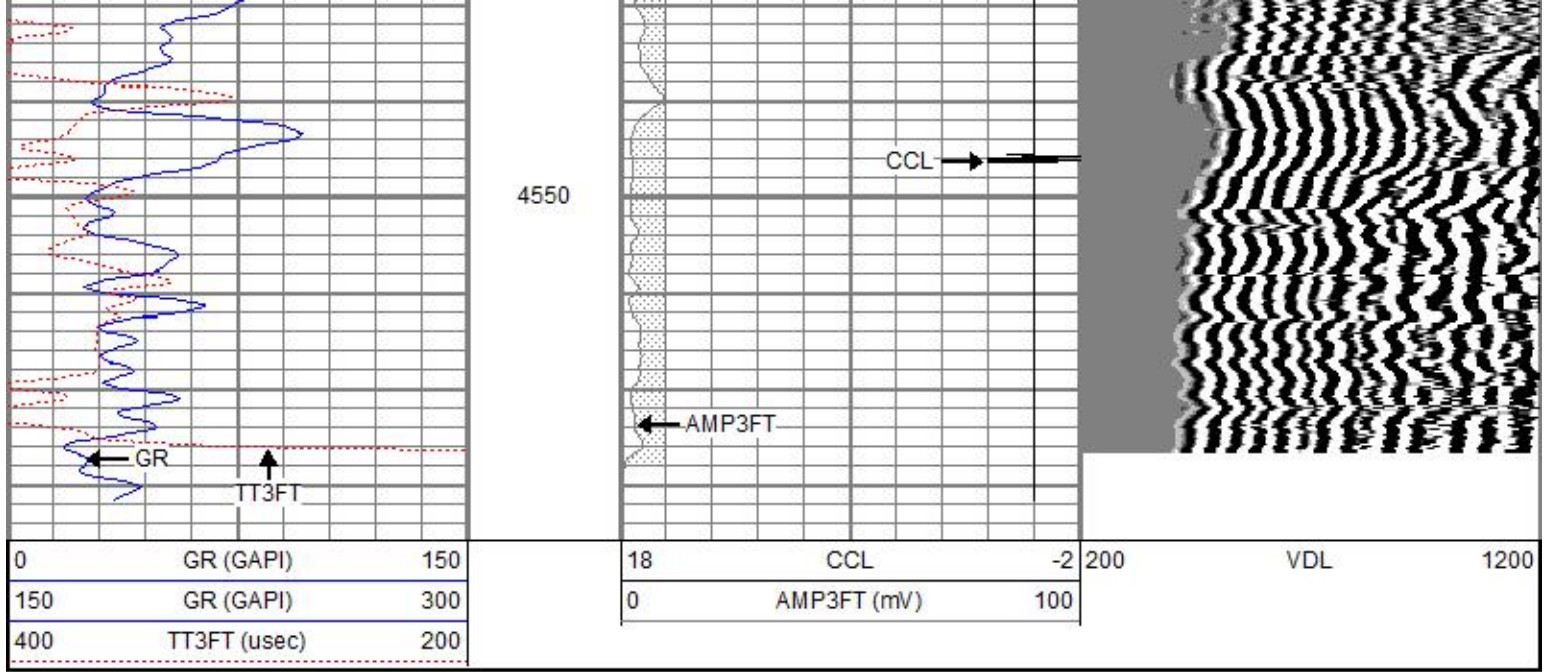








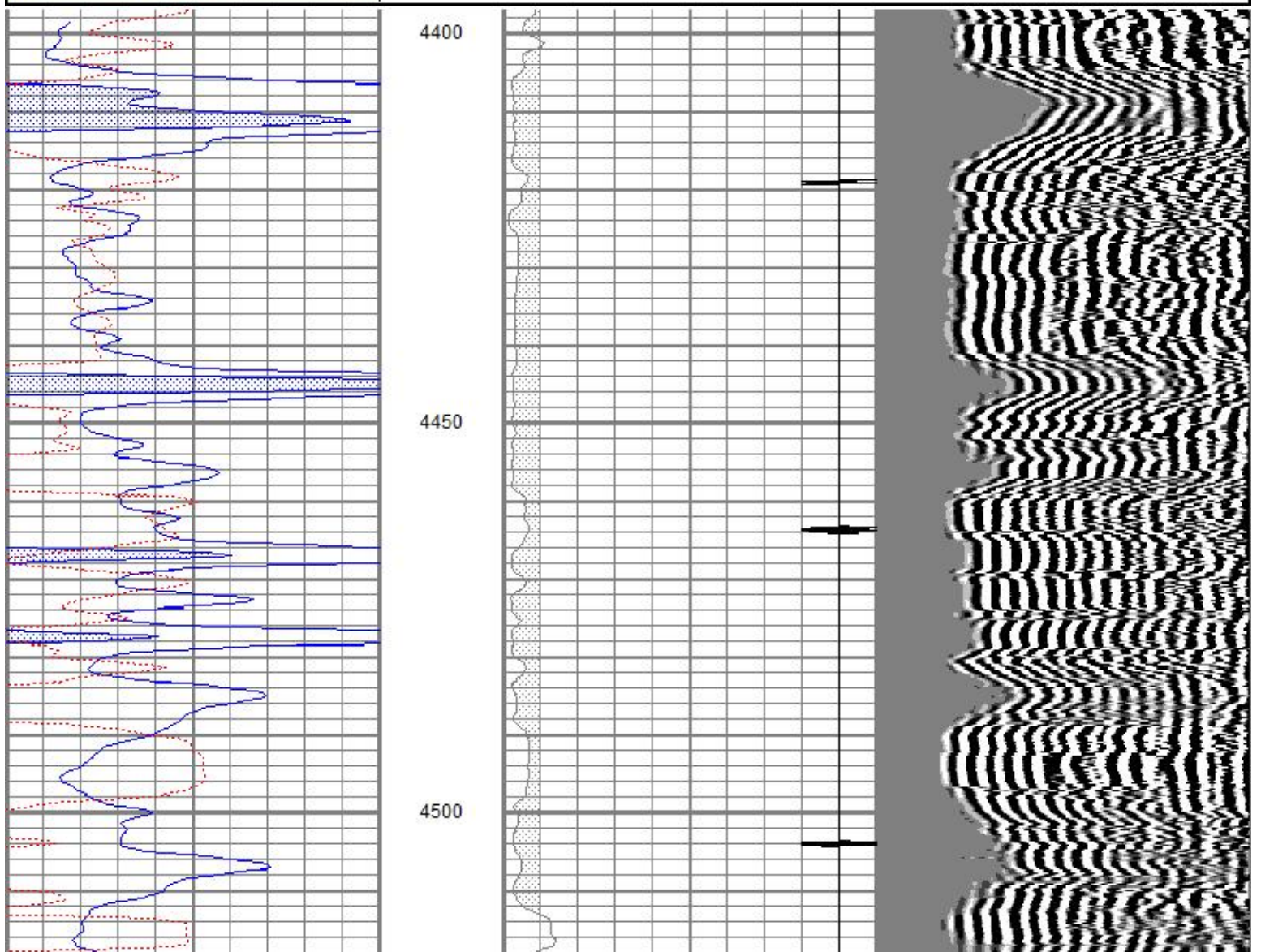


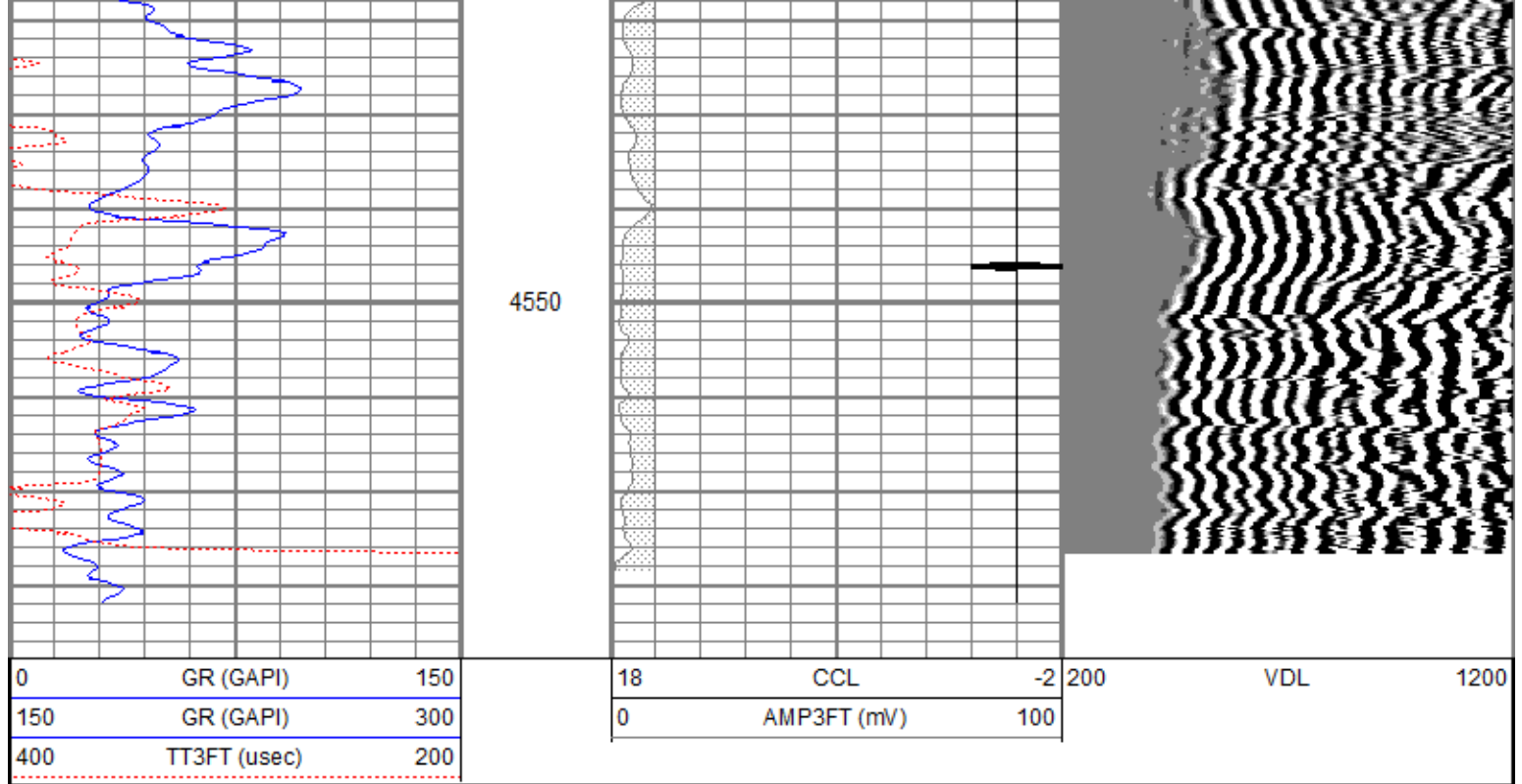


Repeat Section

Database File bocottley#2cbl.db
 Dataset Pathname pass1
 Presentation Format cbl
 Dataset Creation Wed Nov 02 08:07:11 2016
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	18	CCL	-2	200	VDL	1200
150	GR (GAPI)	300	0	AMP3FT (mV)	100			
400	TT3FT (usec)	200						





Calibration Report

Database File bocottley#2cbl.db
 Dataset Pathname pass2
 Dataset Creation Wed Nov 02 08:14:06 2016

Gamma Ray Calibration Report

Serial Number: 080611
 Tool Model: P2
 Performed: Tue Mar 10 09:35:59 2015

Calibrator Value: 1.0 GAPI
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.9500 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: G
 Tool Model: DigitalCBL

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 8.117 ft

Master Calibration, performed Mon Oct 10 09:56:46 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3' CAL	-0.001	1.063	1.000	71.921	66.646	1.047
5'	0.007	1.026	1.000	71.921	69.605	0.541
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset

Air Zero Calibration, performed Wed Mar 30 11:03:14 2016:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1			
S2			
S3			
S4			
S5			
S6			
S7			
S8			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
CENT	13.93		CENT-rub	0.33	1.75	0.80
WVF5FT	9.08		Probedig-DigitalCBL (G)	8.77	2.75	92.00
WVF3FT	9.08		2 3/4 Bond Tool			
CENT	4.83		CENT-rub	0.33	1.75	0.80
CCL	3.67		CCL-Probe (080611)	1.42	2.75	20.00
GR	0.89		GR-P2 (080611) Sensor in Bottom	3.08	2.75	20.00

Dataset: bocottley#2cbl.db: field/well/run1/pass2
 Total length: 13.93 ft
 Total weight: 133.60 lb
 O.D.: 2.75 in



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Becker Oil Corporation

P.O. Box 1150
Panca City, Ok 74602

ATTN: Clyde Becker

36-10-31 Thomas, Ks

Ottley #2

Job Ticket: 65523

DST#: 1

Test Start: 2016.10.16 @ 21:15:46

GENERAL INFORMATION:

Formation: **Lansing G-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:46:46

Time Test Ended: 05:36:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4065.00 ft (KB) To 4165.00 ft (KB) (TVD)

Reference Elevations: 2902.00 ft (KB)

Total Depth: 4165.00 ft (KB) (TVD)

2892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166

Outside

Press @ Run Depth: 116.78 psig @ 4066.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.16

End Date:

2016.10.17

Last Calib.: 2016.10.17

Start Time: 21:15:51

End Time:

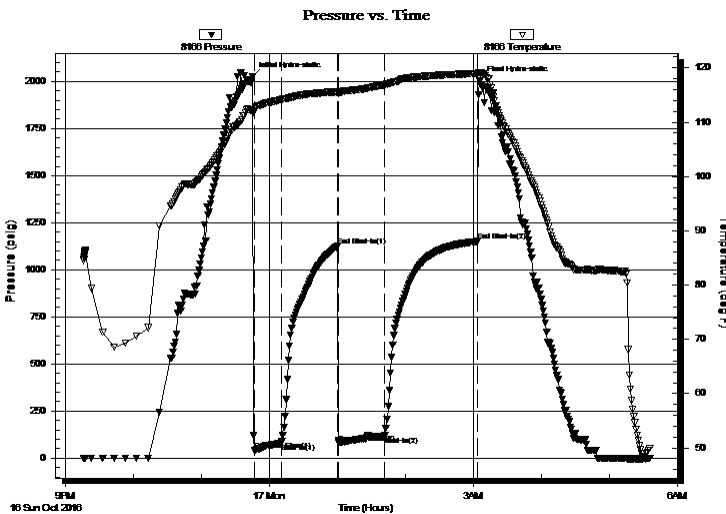
05:36:15

Time On Btm: 2016.10.16 @ 23:44:46

Time Off Btm: 2016.10.17 @ 03:05:46

TEST COMMENT: IF: 1/2 blow BOB in 15 min.
IS: Surface blow died in 7 min.
FF: BOB in 12 min.
FS: Surface blow built to 4.

PRESSURE SUMMARY



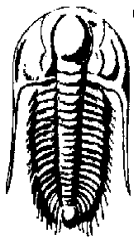
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.46	112.15	Initial Hydro-static
2	42.02	111.94	Open To Flow (1)
26	79.35	114.19	Shut-In(1)
76	1125.24	115.58	End Shut-In(1)
77	81.61	115.40	Open To Flow (2)
117	116.78	116.87	Shut-In(2)
199	1151.56	118.98	End Shut-In(2)
201	2005.95	119.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
112.00	gocm 20%g 30%o 50%m	0.55
124.00	gocm 50%g 20%o 30%m	1.67
0.00	434 GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Becker Oil Corporation

36-10-31 Thomas, Ks

P.O. Box 1150
Panca City, Ok 74602

Ottley #2

Job Ticket: 65523

DST#: 1

ATTN: Clyde Becker

Test Start: 2016.10.16 @ 21:15:46

GENERAL INFORMATION:

Formation: **Lansing G-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:46:46

Time Test Ended: 05:36:16

Interval: 4065.00 ft (KB) To 4165.00 ft (KB) (TVD)

Total Depth: 4165.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 2902.00 ft (KB)

2892.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8875

Inside

Press @ Run Depth: psig @ 4066.00 ft (KB)

Start Date: 2016.10.16

End Date: 2016.10.17

Capacity: 8000.00 psig

Last Calib.: 2016.10.17

Start Time: 21:15:29

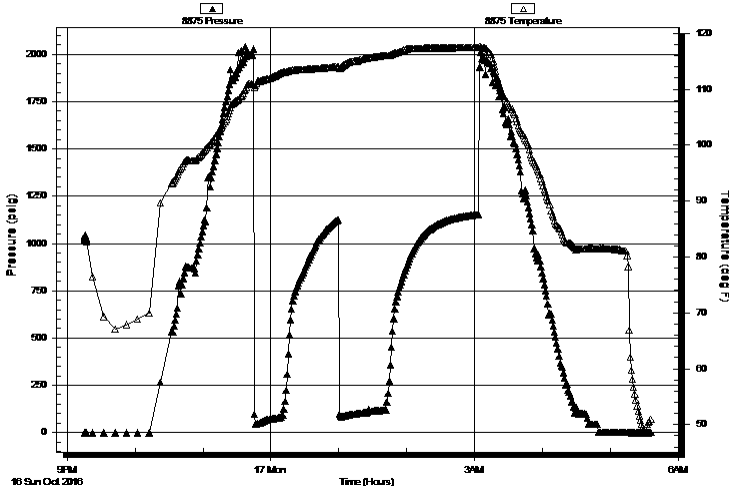
End Time: 05:35:53

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/2 blow BOB in 15 min.
IS: Surface blow died in 7 min.
FF: BOB in 12 min.
FS: Surface blow built to 4.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
112.00	gocm 20%g 30%o 50%m	0.55
124.00	gocm 50%g 20%o 30%m	1.67
0.00	434 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corporation
P.O. Box 1150
Panca City, Ok 74602
ATTN: Clyde Becker

36-10-31 Thomas, Ks
Ottley #2
Job Ticket: 65523 **DST#: 1**
Test Start: 2016.10.16 @ 21:15:46

Mud and Cushion Information

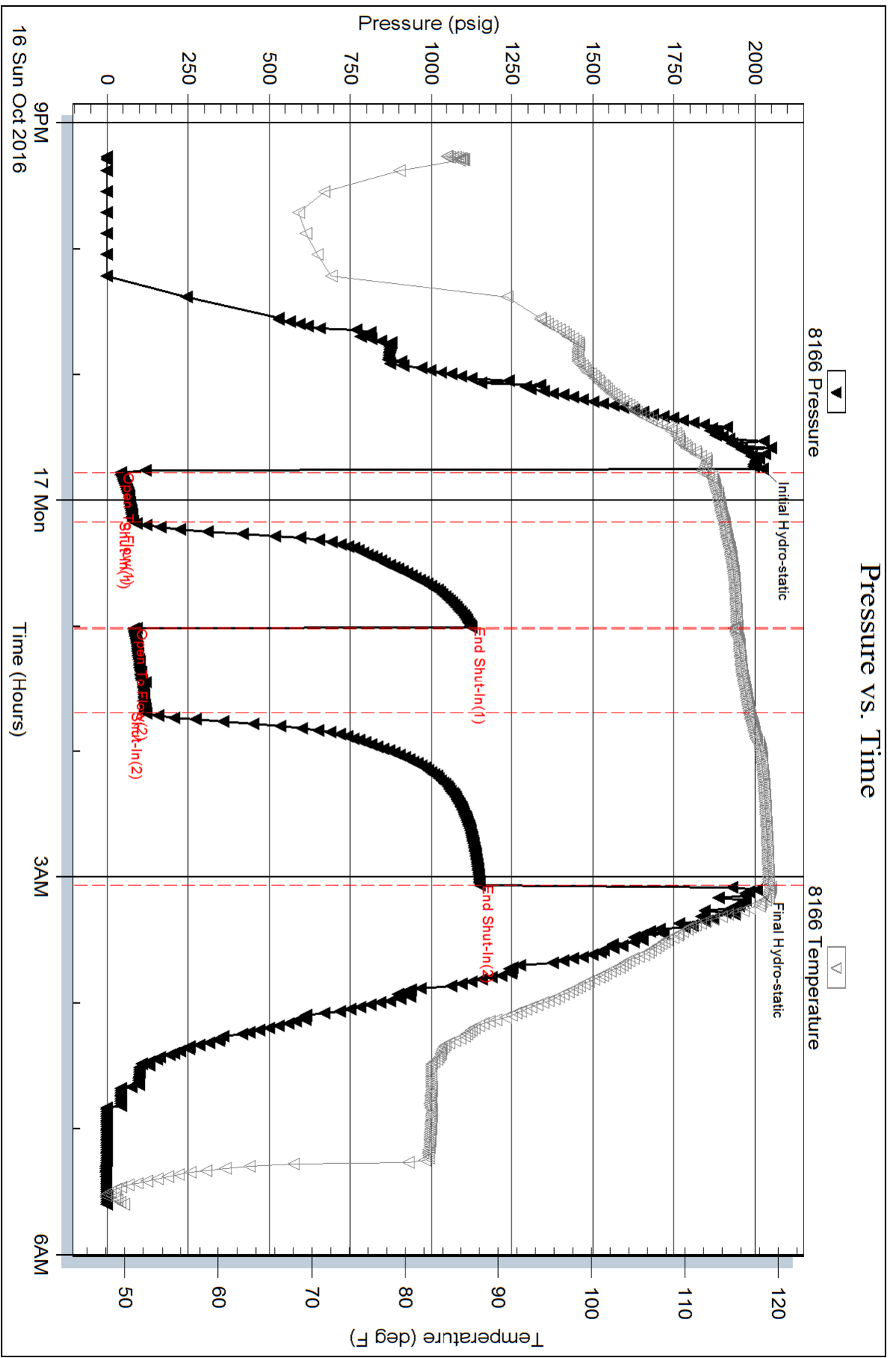
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
112.00	gocm 20%g 30%o 50%m	0.551
124.00	gocm 50%g 20%o 30%m	1.667
0.00	434 GIP	0.000

Total Length: 236.00 ft Total Volume: 2.218 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



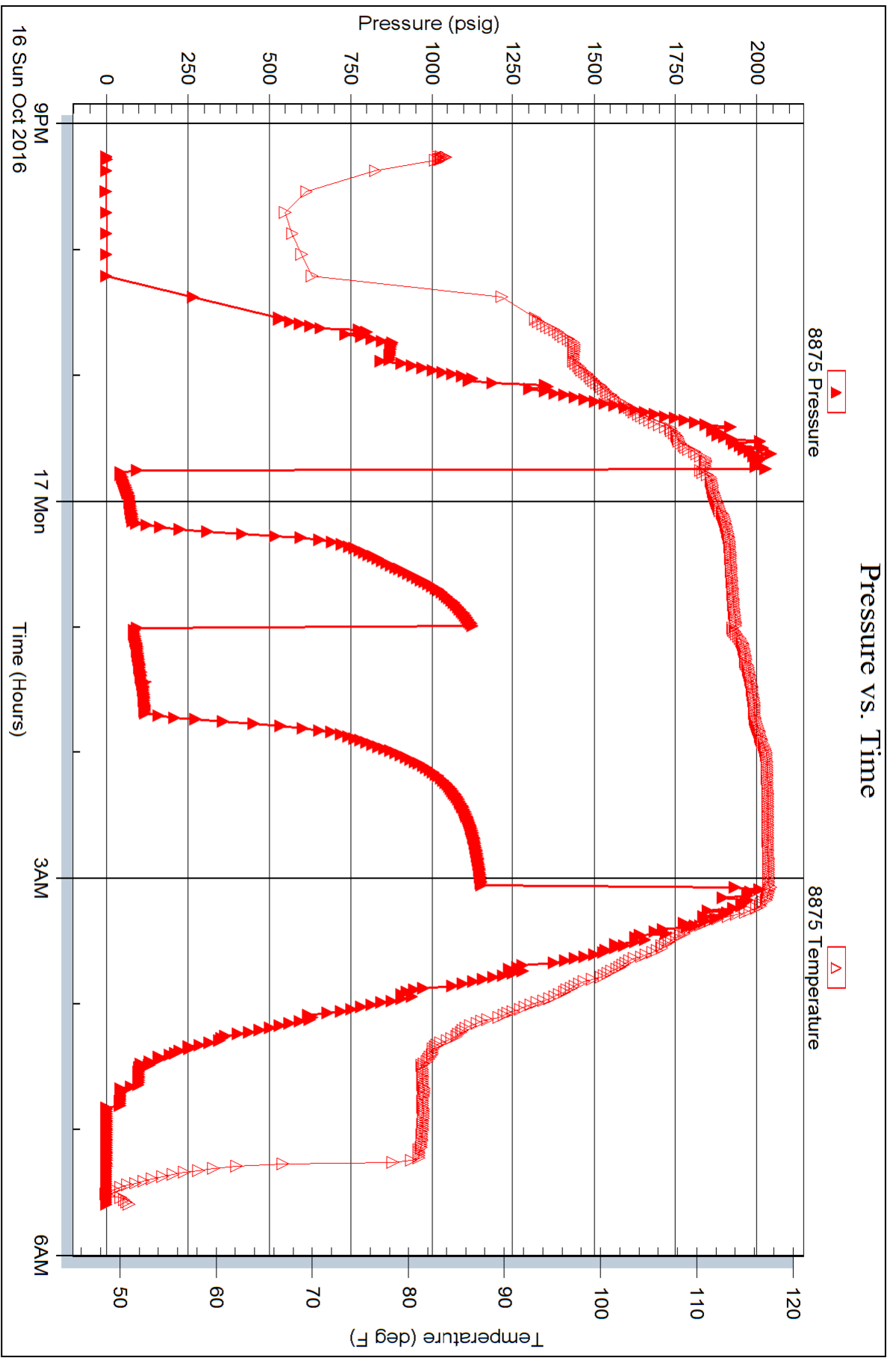
Serial #: 8875

Inside

Becker Oil Corporation

Ottley #2

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Becker Oil Corporation
P.O. Box 1150
Panca City, Ok 74602
ATTN: Clyde Becker

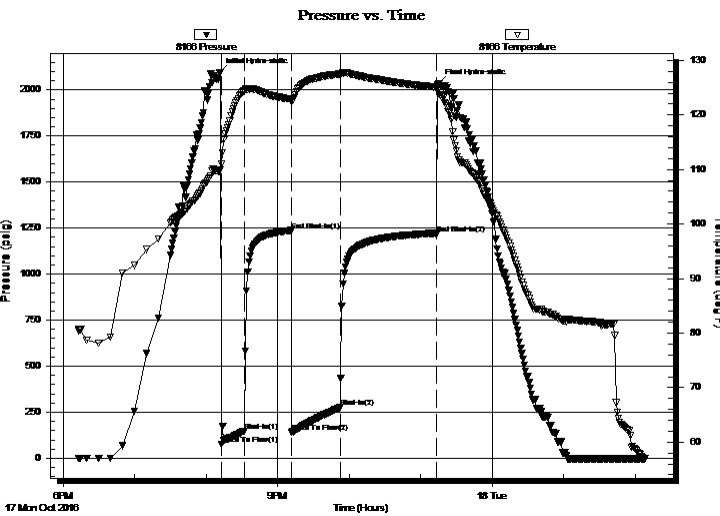
36-10-31 Thomas, Ks
Ottley #2
Job Ticket: 65524 **DST#: 2**
Test Start: 2016.10.17 @ 18:12:53

GENERAL INFORMATION:

Formation: **J-K**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 20:12:53 Tester: Brandon Turley
Time Test Ended: 02:07:53 Unit No: 79
Interval: 4172.00 ft (KB) To 4230.00 ft (KB) (TVD) Reference Elevations: 2902.00 ft (KB)
Total Depth: 4230.00 ft (KB) (TVD) 2892.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8166 Outside
Press @ Run Depth: 276.62 psig @ 4173.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.10.17 End Date: 2016.10.18 Last Calib.: 2016.10.18
Start Time: 18:12:58 End Time: 02:07:52 Time On Btm: 2016.10.17 @ 20:10:53
Time Off Btm: 2016.10.17 @ 23:14:53

TEST COMMENT: IF: BOB in 10 min.
IS: No return.
FF: BOB in 11 min.
FS: BOB in 35 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2092.42	109.70	Initial Hydro-static
2	78.02	110.97	Open To Flow (1)
21	148.27	124.48	Shut-In(1)
61	1237.24	122.91	End Shut-In(1)
61	143.20	122.49	Open To Flow (2)
102	276.62	127.53	Shut-In(2)
183	1221.19	125.11	End Shut-In(2)
184	2036.40	124.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcw 95%w 5%m	1.52
186.00	mcw 80%w 20%m	2.61
186.00	gocw m 5%g 5%o 20%w 70%m	2.61
20.00	mw cgo 10%g 70%o 10%w 10%m	0.28
0.00	352 GIP	0.00

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Becker Oil Corporation

36-10-31 Thomas, Ks

P.O. Box 1150
Panca City, Ok 74602

Ottley #2

Job Ticket: 65524

DST#: 2

ATTN: Clyde Becker

Test Start: 2016.10.17 @ 18:12:53

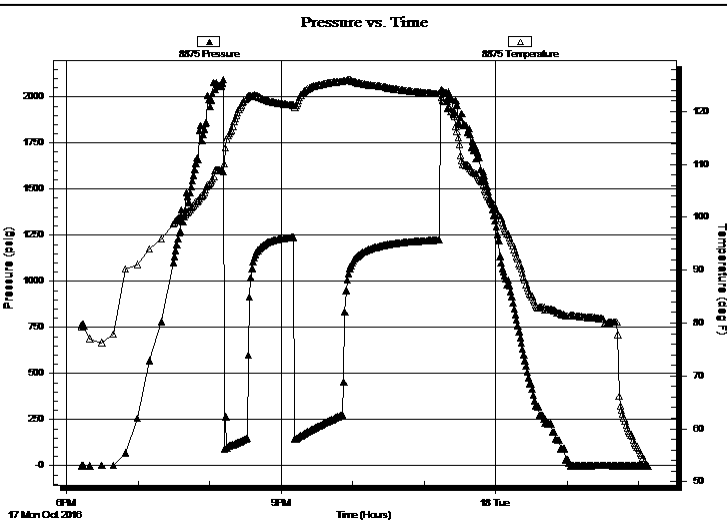
GENERAL INFORMATION:

Formation: J-K		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)		Tester: Brandon Turley
Time Tool Opened: 20:12:53		Unit No: 79
Time Test Ended: 02:07:53		
Interval: 4172.00 ft (KB) To 4230.00 ft (KB) (TVD)		Reference Elevations: 2902.00 ft (KB)
Total Depth: 4230.00 ft (KB) (TVD)		2892.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 10.00 ft

Serial #: 8875 Inside

Press @ Run Depth: psig @ 4173.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2016.10.17	End Date: 2016.10.18
Start Time: 18:12:41	End Time: 02:07:35
	Last Calib.: 2016.10.18
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: BOB in 10 min.
IS: No return.
FF: BOB in 11 min.
FS: BOB in 35 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcw 95%w 5%m	1.52
186.00	mcw 80%w 20%m	2.61
186.00	gocw m 5%g 5%o 20%w 70%m	2.61
20.00	mw cgo 10%g 70%o 10%w 10%m	0.28
0.00	352 GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corporation

36-10-31 Thomas, Ks

P.O. Box 1150
Panca City, Ok 74602

Ottley #2

Job Ticket: 65524

DST#: 2

ATTN: Clyde Becker

Test Start: 2016.10.17 @ 18:12:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	mcw 95%w 5%m	1.516
186.00	mcw 80%w 20%m	2.609
186.00	gocw m 5%g 5%o 20%w 70%m	2.609
20.00	mw cgo 10%g 70%o 10%w 10%m	0.281
0.00	352 GIP	0.000

Total Length: 578.00 ft Total Volume: 7.015 bbl

Num Fluid Samples: 0

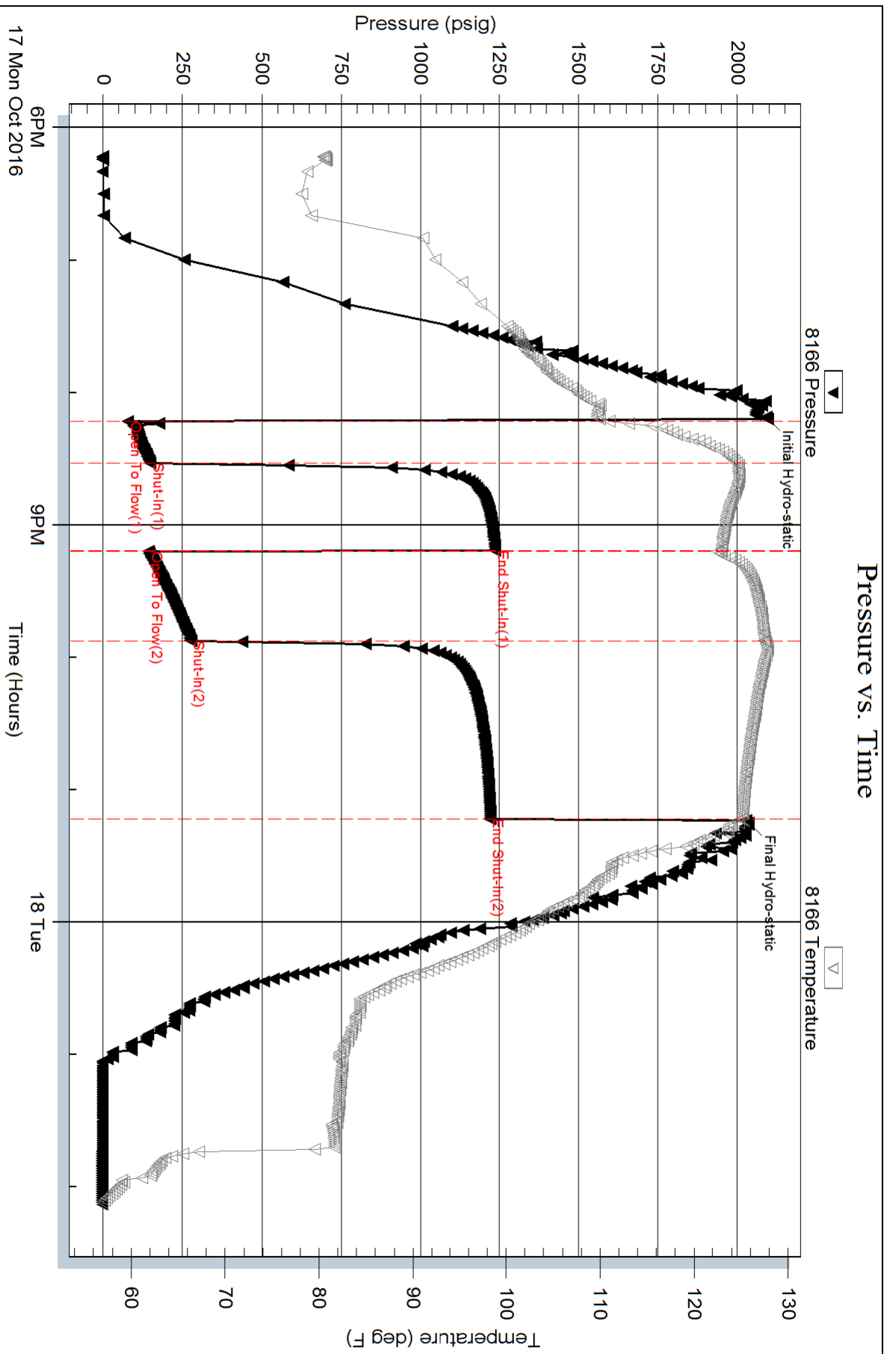
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .19@53=48000



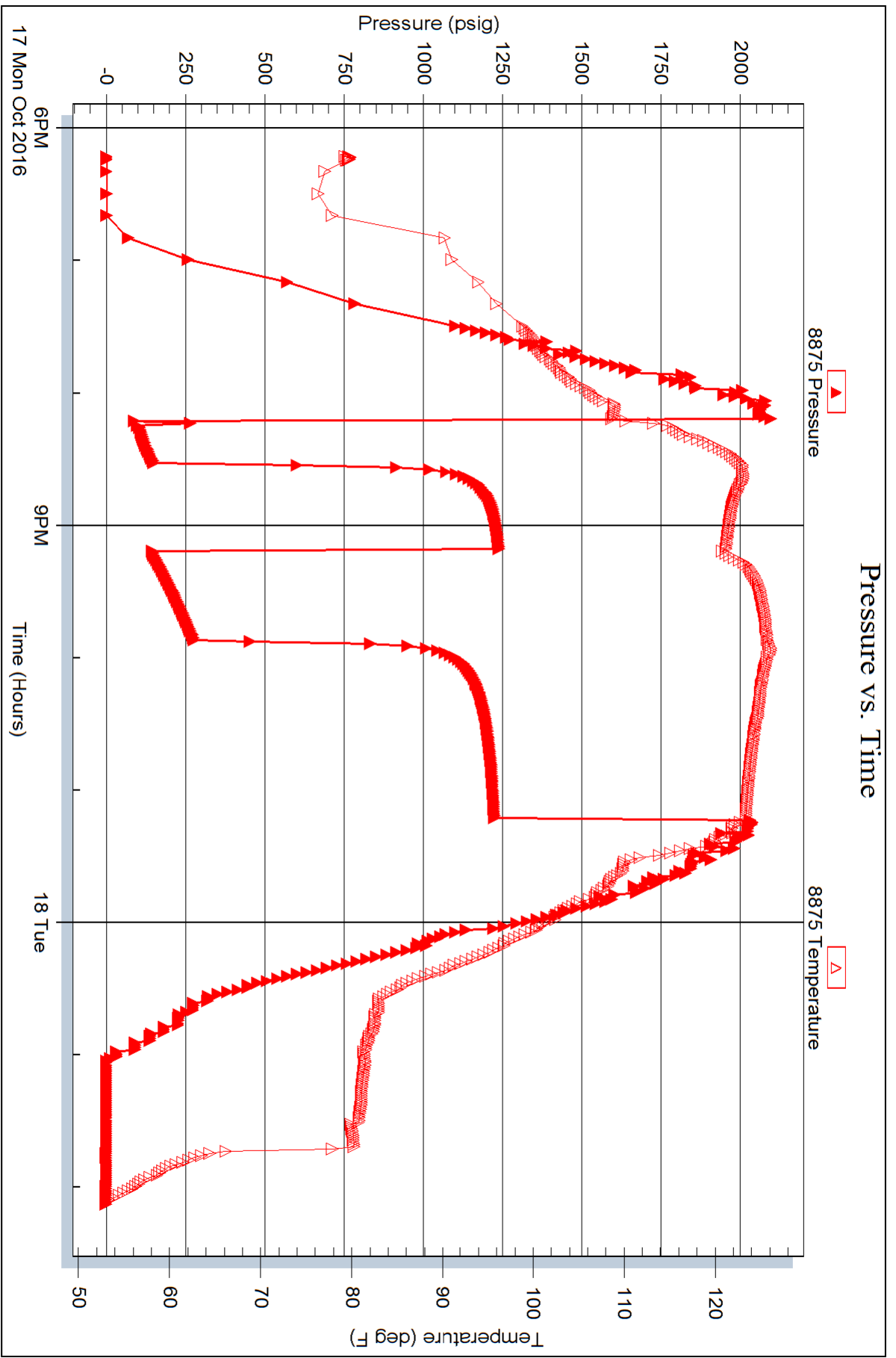
Serial #: 8875

Inside

Becker Oil Corporation

Ottley #2

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Becker Oil Corporation
P.O. Box 1150
Panca City, Ok 74602
ATTN: Clyde Becker

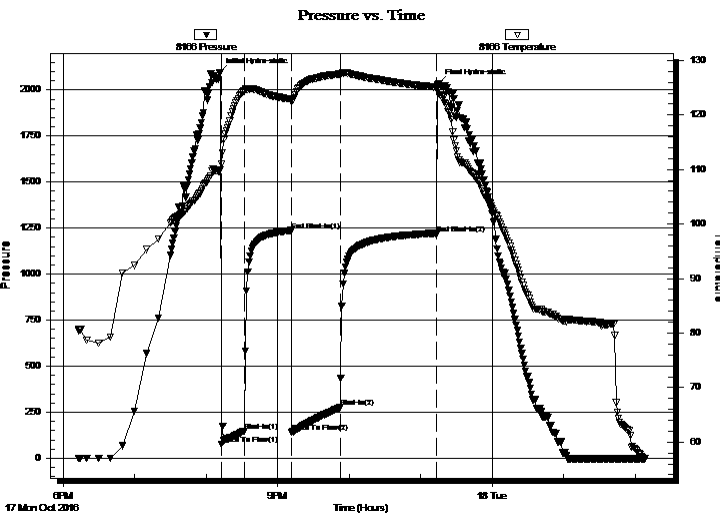
36-10-31 Thomas, Ks
Ottley #2
Job Ticket: 65524 **DST#: 2**
Test Start: 2016.10.17 @ 18:12:53

GENERAL INFORMATION:

Formation: **J-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:12:53
Time Test Ended: 02:07:53
Interval: **4172.00 ft (KB) To 4230.00 ft (KB) (TVD)**
Total Depth: 4230.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 2902.00 ft (KB)
2892.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8166 Outside
Press @ Run Depth: 276.62 psig @ 4173.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.10.17 End Date: 2016.10.18 Last Calib.: 2016.10.18
Start Time: 18:12:58 End Time: 02:07:52 Time On Btm: 2016.10.17 @ 20:10:53
Time Off Btm: 2016.10.17 @ 23:14:53

TEST COMMENT: IF: BOB in 10 min.
IS: No return.
FF: BOB in 11 min.
FS: BOB in 35 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2092.42	109.70	Initial Hydro-static
2	78.02	110.97	Open To Flow (1)
21	148.27	124.48	Shut-In(1)
61	1237.24	122.91	End Shut-In(1)
61	143.20	122.49	Open To Flow (2)
102	276.62	127.53	Shut-In(2)
183	1221.19	125.11	End Shut-In(2)
184	2036.40	124.74	Final Hydro-static

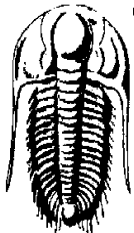
Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcw 95%w 5%m	1.52
186.00	mcw 80%w 20%m	2.61
186.00	gocw m 5%g 5%o 20%w 70%m	2.61
20.00	mw cgo 10%g 70%o 10%w 10%m	0.28
0.00	352 GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Becker Oil Corporation

36-10-31 Thomas, Ks

P.O. Box 1150
Panca City, Ok 74602

Ottley #2

Job Ticket: 65524

DST#: 2

ATTN: Clyde Becker

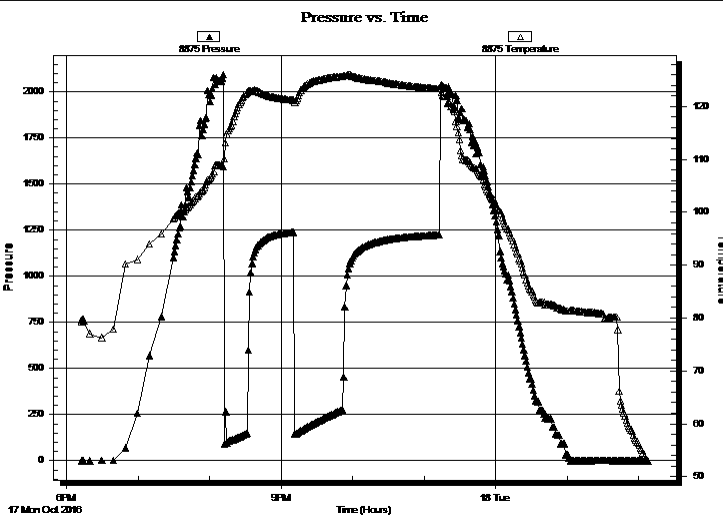
Test Start: 2016.10.17 @ 18:12:53

GENERAL INFORMATION:

Formation: **J-K**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 20:12:53 Tester: Brandon Turley
 Time Test Ended: 02:07:53 Unit No: 79
Interval: 4172.00 ft (KB) To 4230.00 ft (KB) (TVD)
 Reference Elevations: 2902.00 ft (KB)
 Total Depth: 4230.00 ft (KB) (TVD) 2892.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8875 Inside
 Press @ Run Depth: psig @ 4173.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.10.17 End Date: 2016.10.18 Last Calib.: 2016.10.18
 Start Time: 18:12:41 End Time: 02:07:35 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 10 min.
 IS: No return.
 FF: BOB in 11 min.
 FS: BOB in 35 min.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
186.00	mcw 95%w 5%m	1.52
186.00	mcw 80%w 20%m	2.61
186.00	gocw m 5%g 5%o 20%w 70%m	2.61
20.00	mw cgo 10%g 70%o 10%w 10%m	0.28
0.00	352 GIP	0.00

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corporation

36-10-31 Thomas, Ks

P.O. Box 1150
Panca City, Ok 74602

Ottley #2

Job Ticket: 65524

DST#: 2

ATTN: Clyde Becker

Test Start: 2016.10.17 @ 18:12:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	mcw 95%w 5%m	1.516
186.00	mcw 80%w 20%m	2.609
186.00	gocw m 5%g 5%o 20%w 70%m	2.609
20.00	mw cgo 10%g 70%o 10%w 10%m	0.281
0.00	352 GIP	0.000

Total Length: 578.00 ft Total Volume: 7.015 bbl

Num Fluid Samples: 0

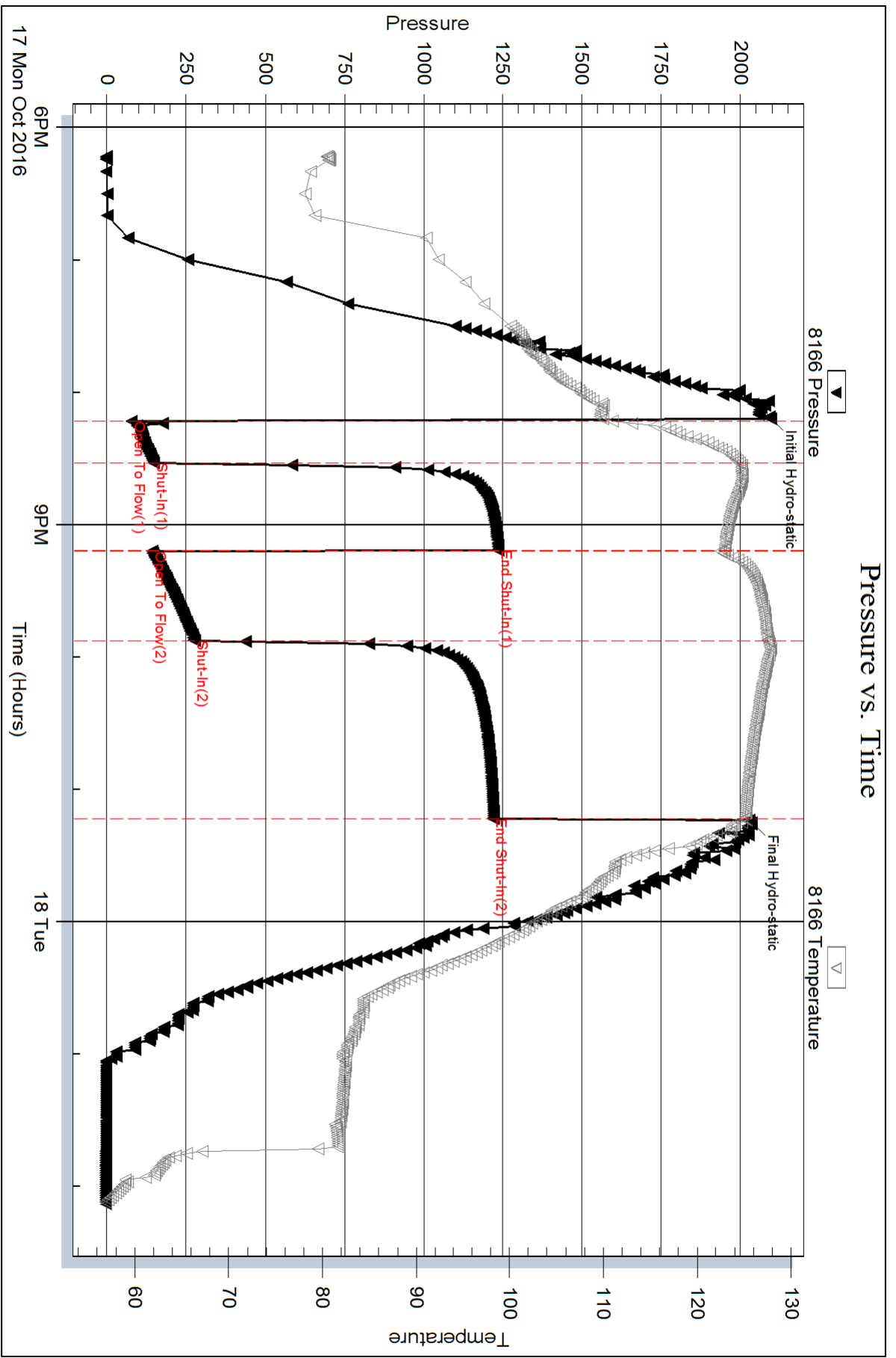
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .19@53=48000



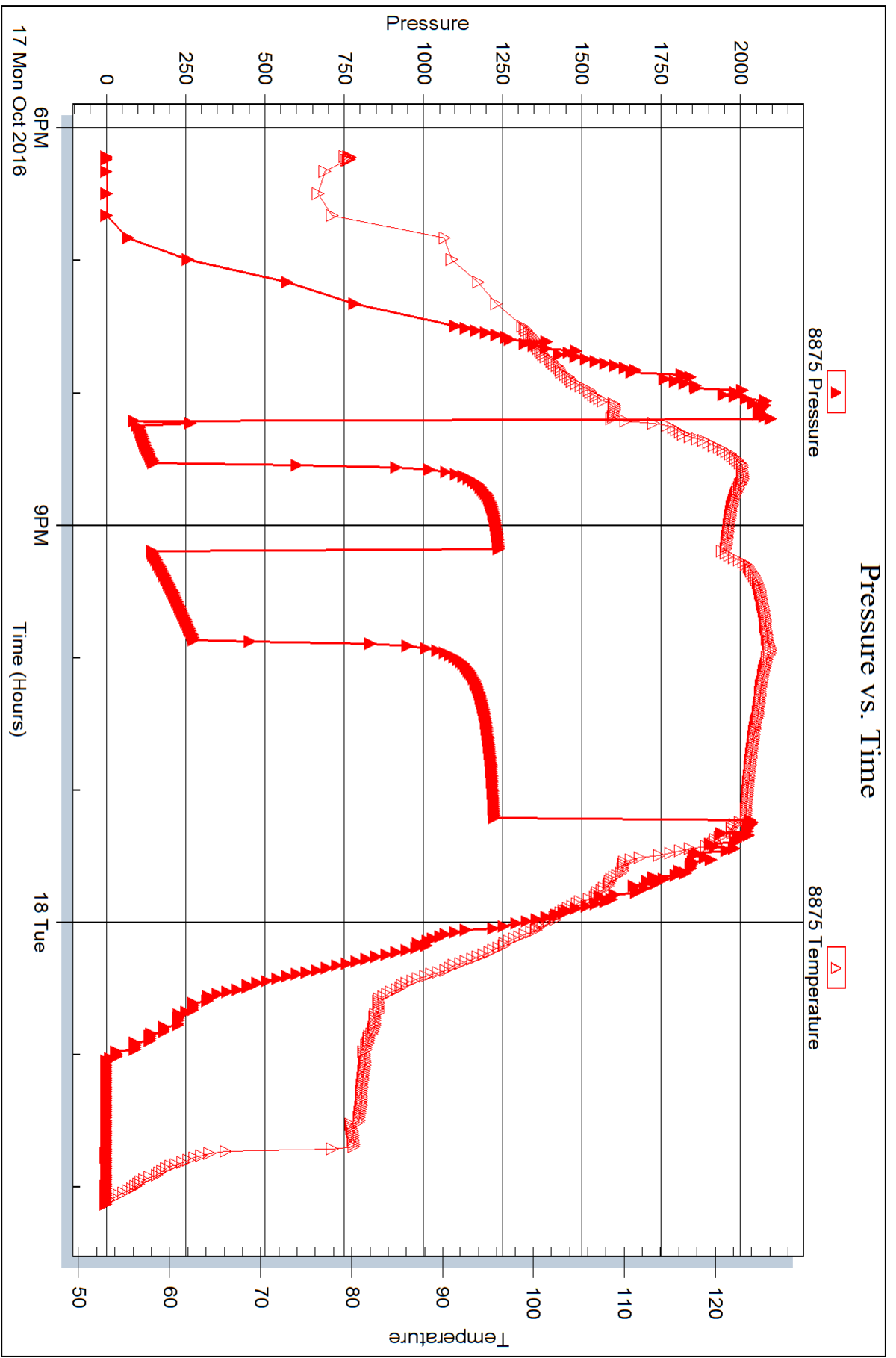
Serial #: 8875

Inside

Becker Oil Corporation

Ottley #2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65524

Printed: 2016.10.19 @ 07:14:35



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Becker Oil Corporation
 P.O. Box 1150
 Panca City, Ok 74602
 ATTN: Clyde Becker

36-10-31 Thomas, Ks
Ottley #2
 Job Ticket: 65626 **DST#: 4**
 Test Start: 2016.10.19 @ 19:03:50

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:04:20 Tester: Brandon Turley
 Time Test Ended: 02:15:20 Unit No: 79
 Interval: **4495.00 ft (KB) To 4549.00 ft (KB) (TVD)** Reference Elevations: 2902.00 ft (KB)
 Total Depth: 4540.00 ft (KB) (TVD) 2892.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

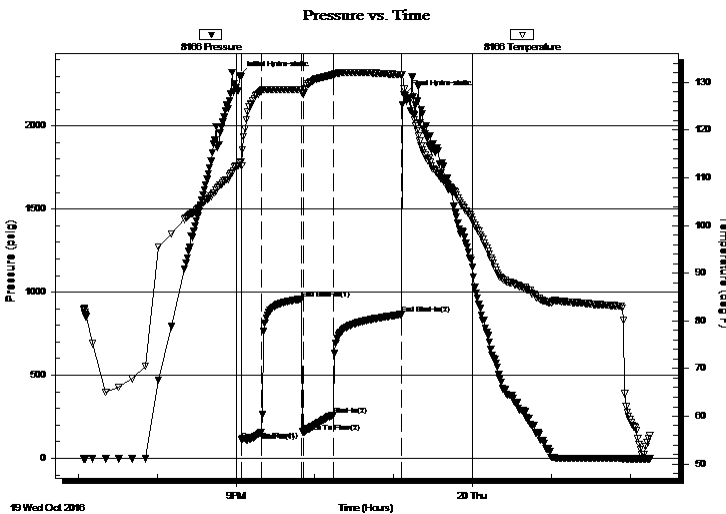
Serial #: 8166

Outside

Press @ Run Depth: 260.14 psig @ 4496.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.10.19 End Date: 2016.10.20 Last Calib.: 2016.10.20
 Start Time: 19:03:55 End Time: 02:15:19 Time On Btm: 2016.10.19 @ 21:02:50
 Time Off Btm: 2016.10.19 @ 23:07:50

TEST COMMENT: IF: BOB in 2 min.
 IS: BOB in 2 min.
 FF: BOB in 2 min.
 FS: BOB in 7 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.31	113.06	Initial Hydro-static
2	110.71	112.57	Open To Flow (1)
17	155.69	128.25	Shut-In(1)
47	958.40	128.43	End Shut-In(1)
49	157.61	127.52	Open To Flow (2)
71	260.14	131.58	Shut-In(2)
123	865.72	131.57	End Shut-In(2)
125	2185.95	128.57	Final Hydro-static

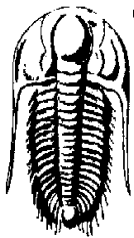
Recovery

Length (ft)	Description	Volume (bbl)
124.00	gocm 20%g 10%o 70%m	0.65
186.00	gocm 20%g 40%o 40%m	2.61
124.00	go 40%g 60%o	1.74
311.00	go 20%g 80%o	4.36
0.00	3037 GIP	0.00

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Becker Oil Corporation

36-10-31 Thomas, Ks

P.O. Box 1150
Panca City, Ok 74602

Ottley #2

Job Ticket: 65626

DST#: 4

ATTN: Clyde Becker

Test Start: 2016.10.19 @ 19:03:50

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:04:20

Time Test Ended: 02:15:20

Interval: 4495.00 ft (KB) To 4549.00 ft (KB) (TVD)

Total Depth: 4540.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 2902.00 ft (KB)

2892.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8875 Inside

Press @ Run Depth: psig @ 4496.00 ft (KB)

Start Date: 2016.10.19

End Date:

2016.10.20

Start Time: 19:03:45

End Time:

02:14:39

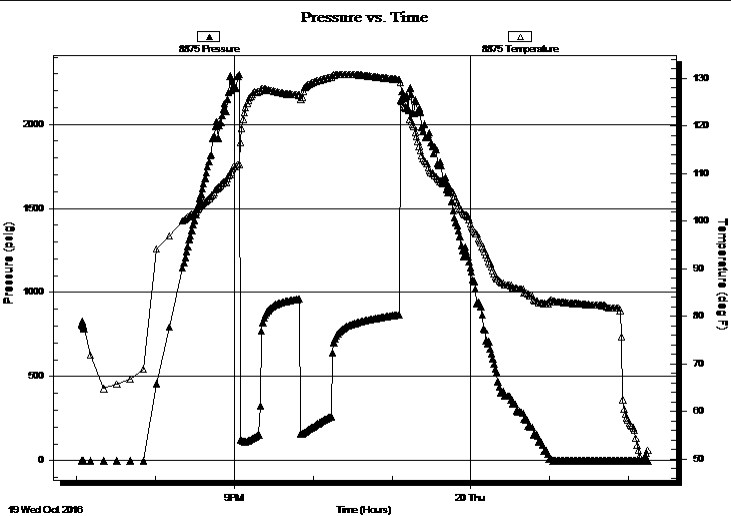
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 2 min.
IS: BOB in 2 min.
FF: BOB in 2 min.
FS: BOB in 7 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
124.00	gocm 20%g 10%o 70%m	0.65
186.00	gocm 20%g 40%o 40%m	2.61
124.00	go 40%g 60%o	1.74
311.00	go 20%g 80%o	4.36
0.00	3037 GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corporation

36-10-31 Thomas, Ks

P.O. Box 1150
Panca City, Ok 74602

Ottley #2

Job Ticket: 65626

DST#: 4

ATTN: Clyde Becker

Test Start: 2016.10.19 @ 19:03:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	gocm 20%g 10%o 70%m	0.646
186.00	gocm 20%g 40%o 40%m	2.609
124.00	go 40%g 60%o	1.739
311.00	go 20%g 80%o	4.363
0.00	3037 GIP	0.000

Total Length: 745.00 ft Total Volume: 9.357 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

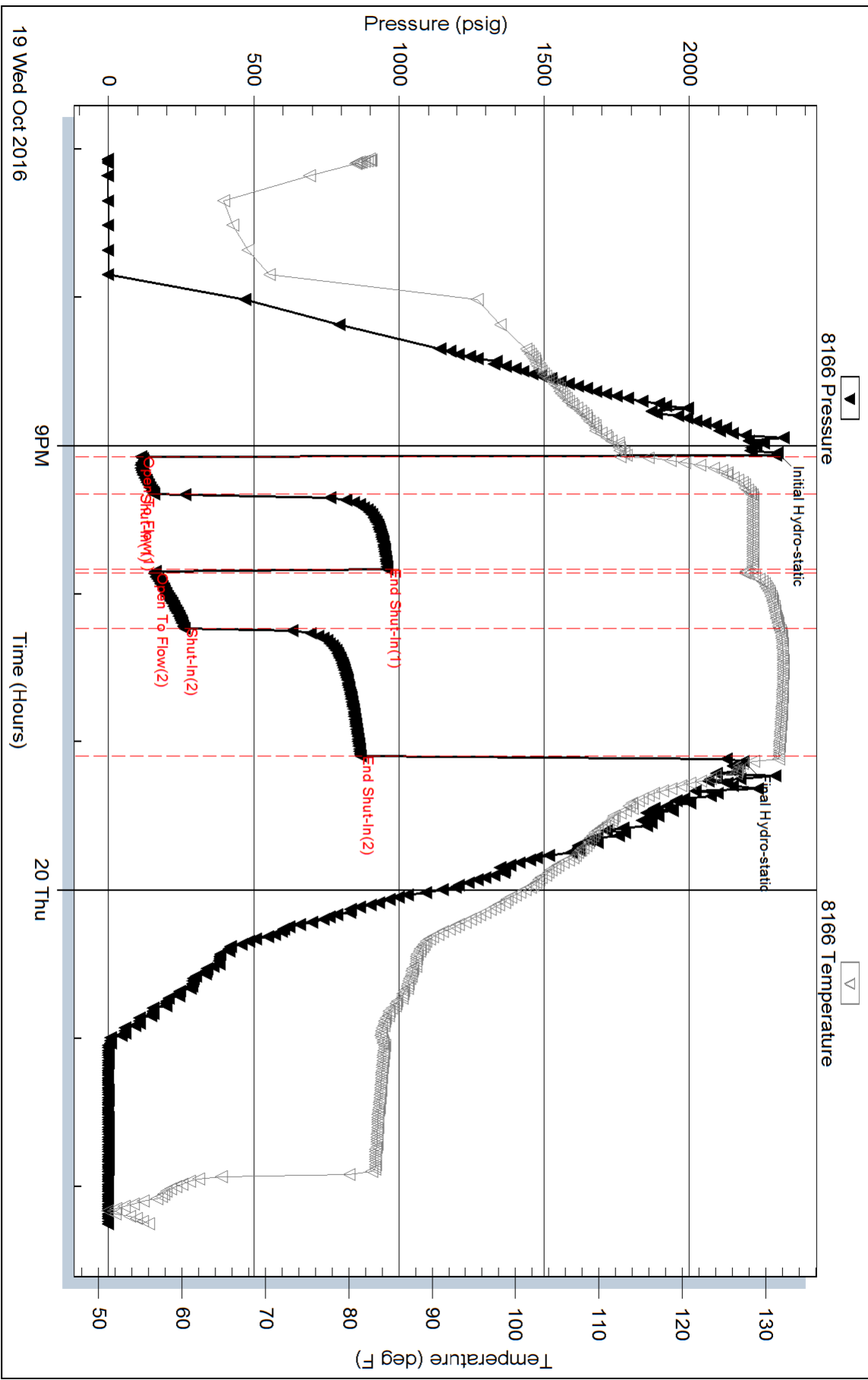
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 37@50=38

Pressure vs. Time



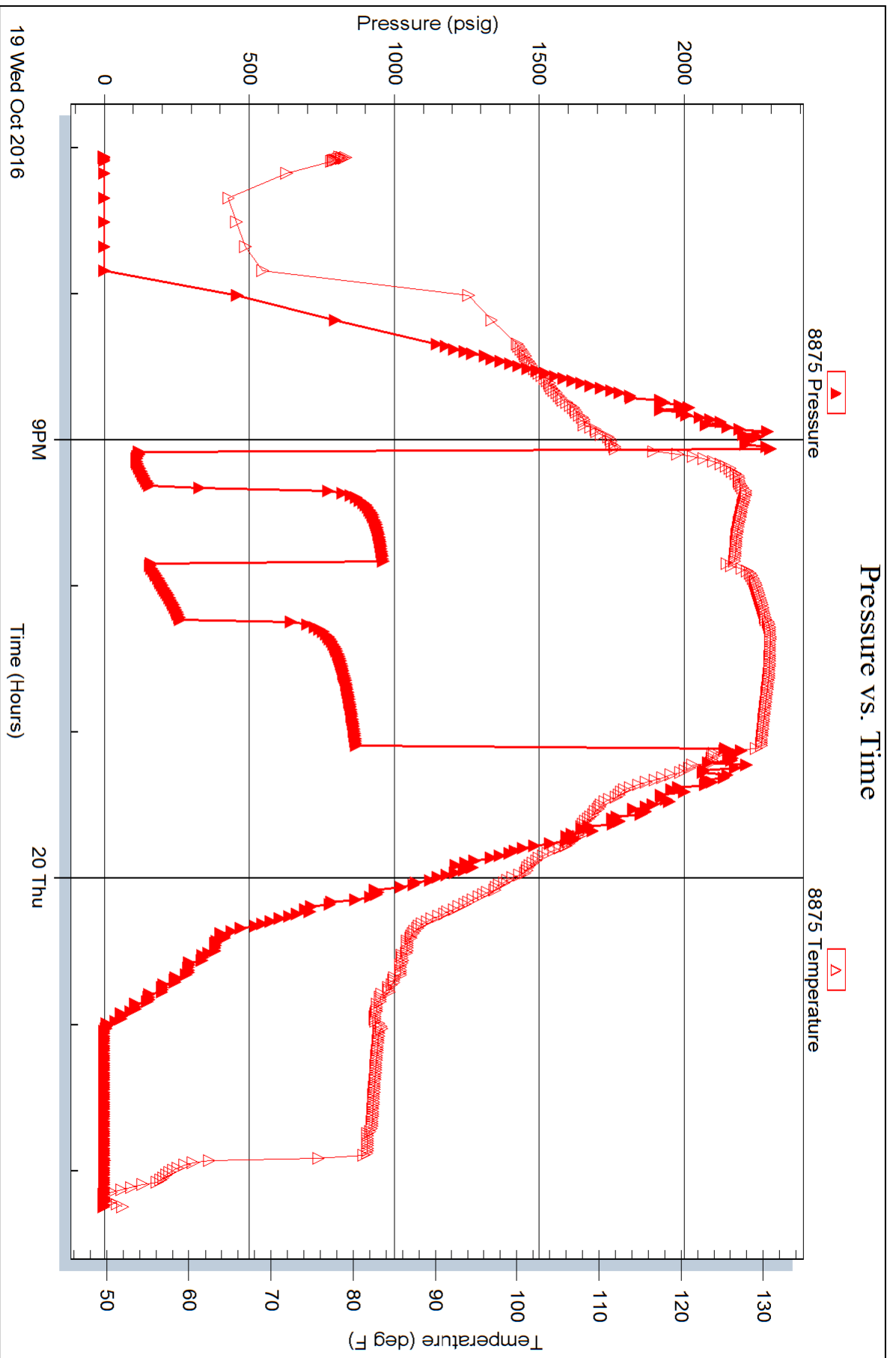
Serial #: 8875

Inside

Becker Oil Corporation

Ottley #2

DST Test Number: 4



Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Pat Apple, Chairman
Shari Feist Albrecht, Commissioner
Jay Scott Emler, Commissioner

Sam Brownback, Governor

March 13, 2017

Clyde M. Becker, Jr.
Becker Oil Corporation
PO BOX 1150
PONCA CITY, OK 74602-1150

Re: ACO-1
API 15-193-20974-00-00
OTTLEY 2
NW/4 Sec.36-10S-31W
Thomas County, Kansas

Dear Clyde M. Becker, Jr.:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 10/12/2016 and the ACO-1 was received on March 11, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department

mailed to Clyde 10-27-16

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
RUSSELL, KS 67665

Invoice

Date	Invoice #
10/14/2016	2717

Bill To
BECKER OIL CORPORATION PO BOX 1150 PONCA CITY, OK 74602

P.O. No.	Terms	Project
OTTLEY#2	Due on receipt	

Quantity	Description	Rate	Amount
150	COMMON	16.00	2,400.00
5	CALCIUM	59.00	295.00
3	GEL	21.50	64.50
158	HANDLING	1.90	300.20
	BULK MILEAGE	126.40	126.40
	TRI-PLEX PUMP CHARGE FOR SURFACE	750.00	750.00
10	PUMP TRUCK MILEAGE	6.00	60.00
10	PICKUP	1.80	18.00
	DISCOUNT	-1,216.80	-1,216.80
	Sales Tax	7.50%	0.00

GLOBAL OIL FIELD SERVICES, LLC

2717

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell, KS

DATE <u>10-12-16</u>	SEC. <u>36</u>	TWP. <u>10</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>4:45pm</u>
LEASE <u>Ottley</u>	WELL #. <u>2</u>	LOCATION <u>Campus IN Einto</u>			COUNTY <u>Thomas</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)							

CONTRACTOR WW #12

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 226

CASING SIZE 8 5/8 DEPTH 216

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. 300 psi MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 2004

PERFS

DISPLACEMENT 13.12 bbl

EQUIPMENT

PUMP TRUCK CEMENTER Heath

417 HELPER Cody

BULK TRUCK DRIVER Jason

378

BULK TRUCK DRIVER

#

OWNER

CEMENT AMOUNT ORDERED 150 sacks com 3% CC

2% OGEL

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Run 5 JTS of 8 5/8 casing and landing 14 est Circulation

I took up and mix 150sks and disp 13.12 bbl of #20 - shut in @ 300 psi.

Cement Did Circulate !!

CHARGE TO: Recker Oil

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

Global Oil Field Services, LLC

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. Thank You !!

PRINTED NAME Calvin Hammerhead

SIGNATURE Calvin Hammerhead

PLUG & FLOAT EQUIPMENT

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

Bottom Stage

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>Becker Oil Company</i>	Lease No.	Date <i>10/21/16</i>	
Lease <i>07114</i>	Well # <i>2</i>		
Field Order # <i>14136 A</i>	Station <i>Pratt KS</i>	Casing <i>5 1/2 17</i>	Depth <i>4550</i>
		County <i>Thomas</i>	State <i>KS</i>
Type Job <i>5 1/2 2 stage long string</i>	Formation <i>crin</i>	Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>5 1/2</i>				Pre Pad	Max		5 Min.
Depth <i>4550</i>	Depth	From	To	Pad	Min		10 Min.
Volume <i>105</i>	Volume	From	To	Frac	Avg		15 Min.
Max Press <i>2000</i>	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth	Packer Depth	From	To				

Customer Representative <i>Jill</i>	Station Manager <i>Kevin Gaudley</i>	Treater <i>Scott Graves</i>
--	---	--------------------------------

Service Units	<i>38950</i>	<i>18987</i>	<i>86779</i>	<i>19959</i>	<i>21010</i>	<i>84980</i>	<i>19860</i>				
Driver Names	<i>Scott</i>	<i>Mike</i>	<i>Ray</i>	<i>Francisco</i>							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:45</i>	<i>10/70</i>				<i>On location Safety Meeting Rig</i>
<i>11:30</i>					<i>Run Flood Equipment</i>
					<i>Turbos # 1,2,3,5,7,9,10,11,14,20,21,1</i>
					<i>Basket # 49, DU # 50</i>
<i>2:30</i>					<i>Break Circulation 45 min</i>
<i>3:10</i>	<i>300</i>			<i>4</i>	<i>Pump H₂O spacer</i>
<i>3:11</i>	<i>400</i>		<i>5</i>	<i>4</i>	<i>Pump Mud Flush 500 gallons</i>
<i>3:14</i>	<i>400</i>		<i>12</i>	<i>4.5</i>	<i>Pump H₂O spacer</i>
<i>3:15</i>	<i>350</i>		<i>5</i>	<i>4.5</i>	<i>Mud A-con 11.6 ppg</i>
<i>3:36</i>	<i>300</i>		<i>74</i>	<i>5</i>	<i>Mud AA? 14.8 ppg</i>
<i>3:43</i>	<i>Ø</i>		<i>36</i>		<i>Shut down</i>
<i>3:46</i>					<i>Wash pump + lines clean</i>
<i>3:48</i>	<i>Ø</i>			<i>4.5</i>	<i>Release Plug Start Displace</i>
<i>3:59</i>	<i>250</i>		<i>45</i>	<i>4.5</i>	<i>Start Displacement w/ Mud</i>
<i>4:03</i>	<i>450</i>		<i>15.5</i>	<i>4.5</i>	<i>Ø lib. Pressure</i>
<i>4:11</i>	<i>800</i>		<i>33</i>	<i>3.5</i>	<i>Reduce Rate</i>
<i>4:14</i>	<i>950</i>		<i>10</i>	<i>3.5</i>	<i>Plug landed</i>
<i>4:14</i>	<i>1600</i>				<i>Pressure up on plug hold</i>
<i>4:15</i>	<i>Ø</i>				<i>Release Pressure NO Returns</i>
<i>4:15</i>					<i>Bottom Stage Complete</i>

Top Stage

Customer Decker Oil Corporation		Lease No.		Date 10/21/16	
Lease 0-116		Well #			
Field Order # 141362A	Station Pratt KS	Casing 5 1/2 IN	Depth 4550	County Thomas	State KS
Type Job 5 1/2 2-stage Long string			Formation	Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
3 1/2 17								
Depth 105	Depth	From	To	Pre Pad	Max		5 Min.	
Volume 4550	Volume	From	To	Pad	Min		10 Min.	
Max Press 2000	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection 5 1/2	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative Jerry				Station Manager Kevin Goodley				Treater Scott Graves			
Service Units	38450	78987	86779	19959	71010	81480	19860				
Driver Names	Scott	Mike	-	Ray	-	Farriso	-				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:20					TOP STAGE Service Log
4:35					Diag DV open Tool
4:36	1400		.5		Pressure up on DV Tool
6:33	450			5	DV OPENED start Circulation
6:35	300		5	5.5	Pump H2O Spacer
7:04	Ø		160		Mix 325 sks A-COM 11.6
7:05					Shut down
7:08	700			5.5	Shut Pump + lines clean
7:16	550		48	3	Release Plug start Displacement
7:19	650		10	3	Reduce Rate
7:20	1500			3	Plug landed
7:20	Ø				Pressure up on DV Tool Plug
7:30	Ø			3	Release Pressure NO Retainers
7:33	Ø		7.5		Plug Ret hole 30 sks A.C
					Shut down
					Job Complete