



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1087197
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: _____

1087197

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Caerus Kansas LLC
Well Name	Harrison 36-23
Doc ID	1087197

All Electric Logs Run

Porosity
Sonic Log
Dual Induction
Microlog

Form	ACO1 - Well Completion
Operator	Caerus Kansas LLC
Well Name	Harrison 36-23
Doc ID	1087197

Tops

Name	Top	Datum
Stone Corral	1182	
Stotler	2777	
Topeka	3119	
Heebner Shale	3405	
Lansin	3573	
Base Kansas City	3831	
Viola	3968	
Arbuckle	4149	



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47545

DST#: 1

ATTN: Roger Fisher

Test Start: 2012.06.12 @ 16:13:33

GENERAL INFORMATION:

Formation: **Lans. B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:17:03

Time Test Ended: 01:24:33

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3587.00 ft (KB) To 3629.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3629.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8352 Inside

Press @RunDepth: 29.89 psig @ 3588.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.12

End Date:

2012.06.13

Last Calib.:

2012.06.13

Start Time: 16:13:38

End Time:

01:24:33

Time On Btm:

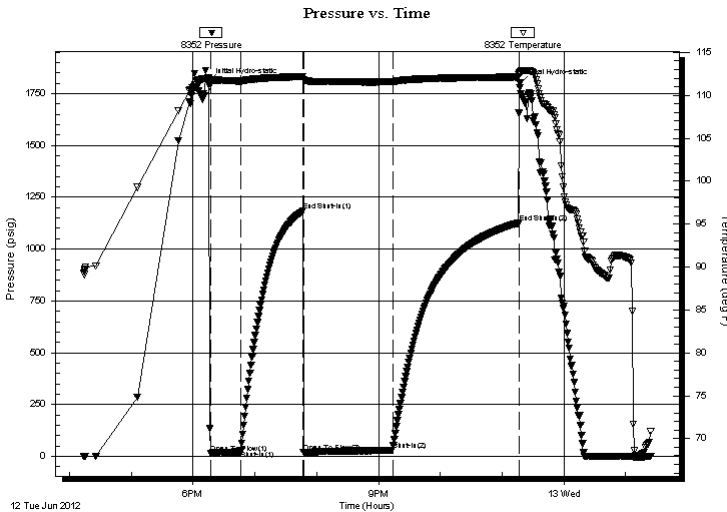
2012.06.12 @ 18:14:48

Time Off Btm:

2012.06.12 @ 23:17:03

TEST COMMENT: IF:Strong blow . B.O.B. in 18 secs.
IS:No blow .
FF:Strong blow . B.O.B. in 4 secs. GTS in 75 mins.
FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1806.00	112.02	Initial Hydro-static
3	16.24	111.55	Open To Flow (1)
32	28.71	111.65	Shut-In(1)
92	1184.67	112.19	End Shut-In(1)
93	18.74	111.82	Open To Flow (2)
179	29.89	111.57	Shut-In(2)
302	1125.97	112.15	End Shut-In(2)
303	1800.37	112.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	SOCM 1%o 99%m	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47545

DST#: 1

ATTN: Roger Fisher

Test Start: 2012.06.12 @ 16:13:33

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

7000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	SOCM 1%o 99%m	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8352

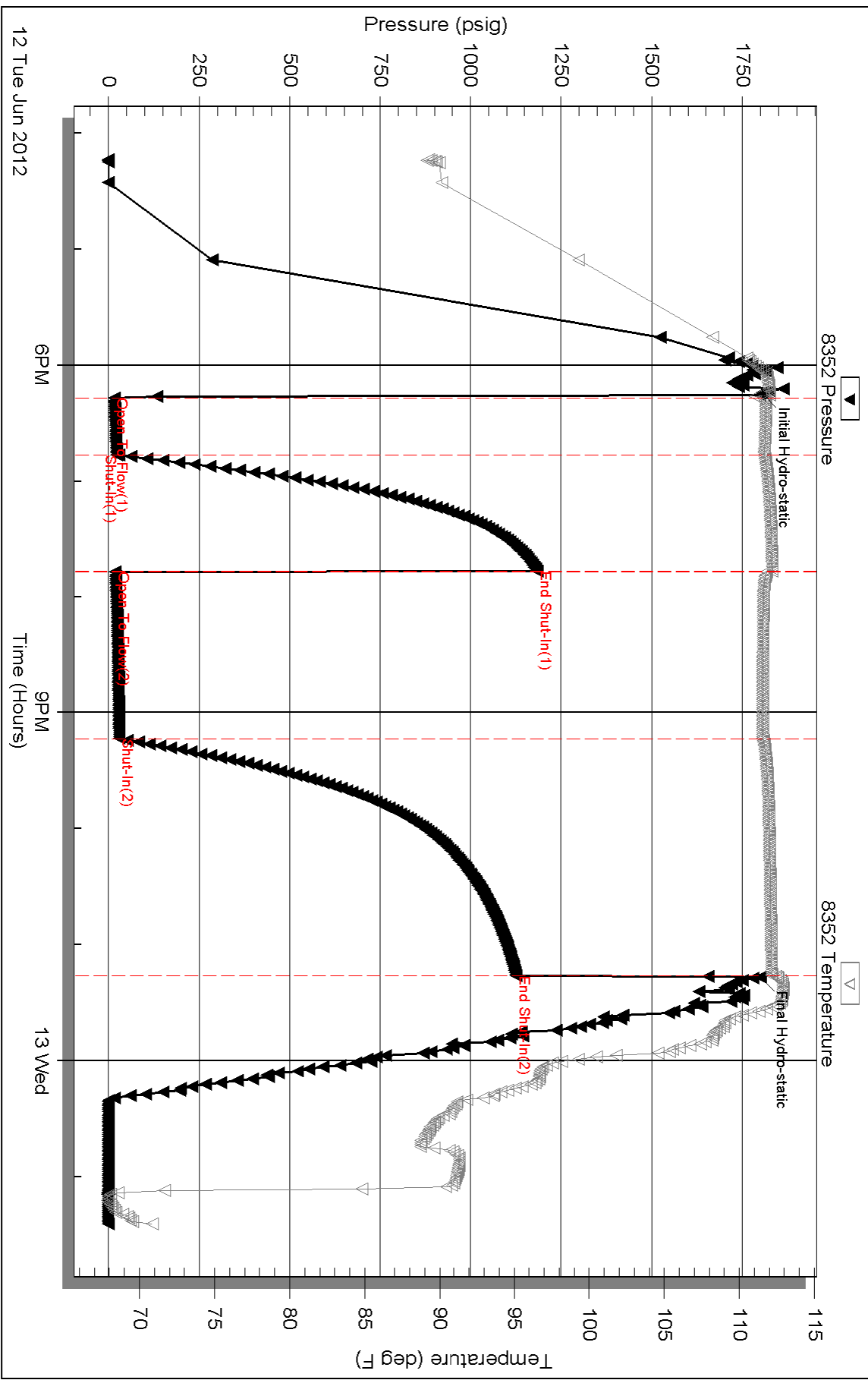
Inside

Caerus Ks, LLC

Harrison #36-23

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47545

Printed: 2012.06.13 @ 07:55:43



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47546

DST#: 2

ATTN: Roger Fisher

Test Start: 2012.06.13 @ 13:26:48

GENERAL INFORMATION:

Formation: **Lans D - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:13:18

Time Test Ended: 23:22:03

Test Type: Conventional Straddle (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3640.00 ft (KB) To 3665.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3688.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8649

Inside

Press @ Run Depth: 169.32 psig @ 3641.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.13

End Date:

2012.06.13

Last Calib.:

2012.06.13

Start Time: 13:26:53

End Time:

23:22:03

Time On Btm:

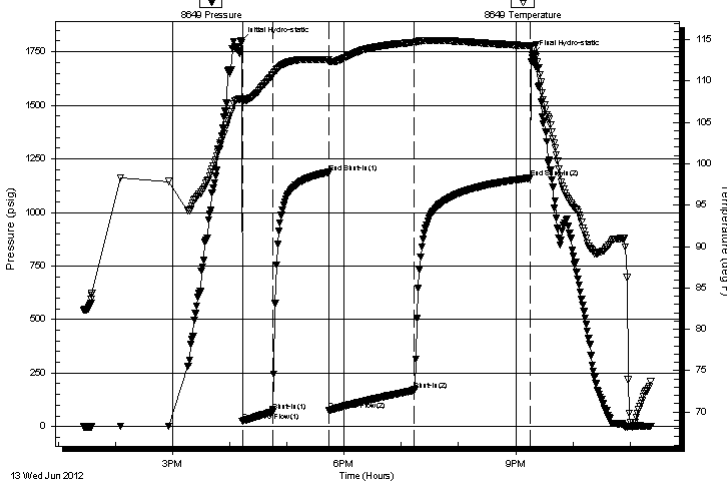
2012.06.13 @ 16:11:48

Time Off Btm:

2012.06.13 @ 21:17:18

TEST COMMENT: IF:Weak to fair blow . Increase to 8 - 9".
IS:No blow .
FF:Weak to fair blow . Increase to 13".
FS:No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.12	107.83	Initial Hydro-static
2	23.52	107.49	Open To Flow (1)
34	69.36	110.70	Shut-In(1)
92	1187.56	112.56	End Shut-In(1)
93	74.41	112.35	Open To Flow (2)
182	169.32	114.65	Shut-In(2)
304	1161.00	114.25	End Shut-In(2)
306	1737.57	114.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	SW / Rw .09 ohms @75deg	5.22
0.00	Oil scum @ top of recovery	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47546

DST#: 2

ATTN: Roger Fisher

Test Start: 2012.06.13 @ 13:26:48

GENERAL INFORMATION:

Formation: **Lans D - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:13:18

Time Test Ended: 23:22:03

Test Type: Conventional Straddle (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3640.00 ft (KB) To 3665.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3688.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8352 Below (Straddle)

Press @RunDepth: psig @ 3666.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.13

End Date: 2012.06.13

Last Calib.: 2012.06.13

Start Time: 13:37:34

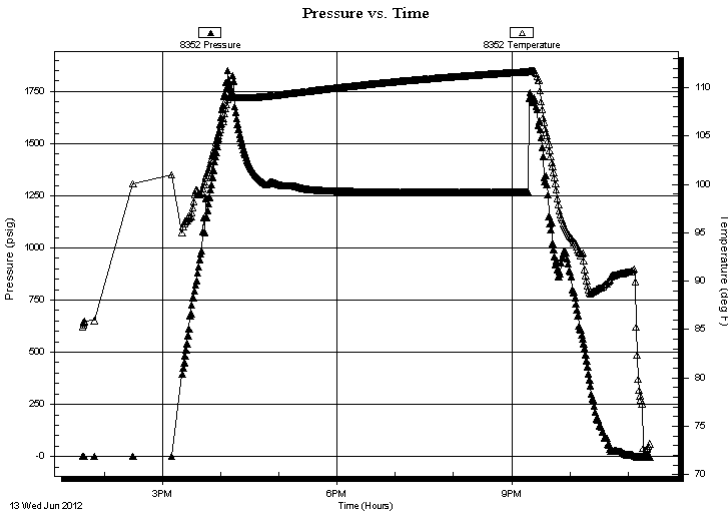
End Time: 23:22:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Weak to fair blow . Increase to 8 - 9".
IS:No blow .
FF:Weak to fair blow . Increase to 13".
FS:No blow .

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
372.00	SW / Rw .09 ohms @75deg	5.22
0.00	Oil scum @ top of recovery	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

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47546

DST#: 2

ATTN: Roger Fisher

Test Start: 2012.06.13 @ 13:26:48

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

83000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	SW / Rw .09 ohms @75deg	5.218
0.00	Oil scum @ top of recovery	0.000

Total Length: 372.00 ft

Total Volume: 5.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8649

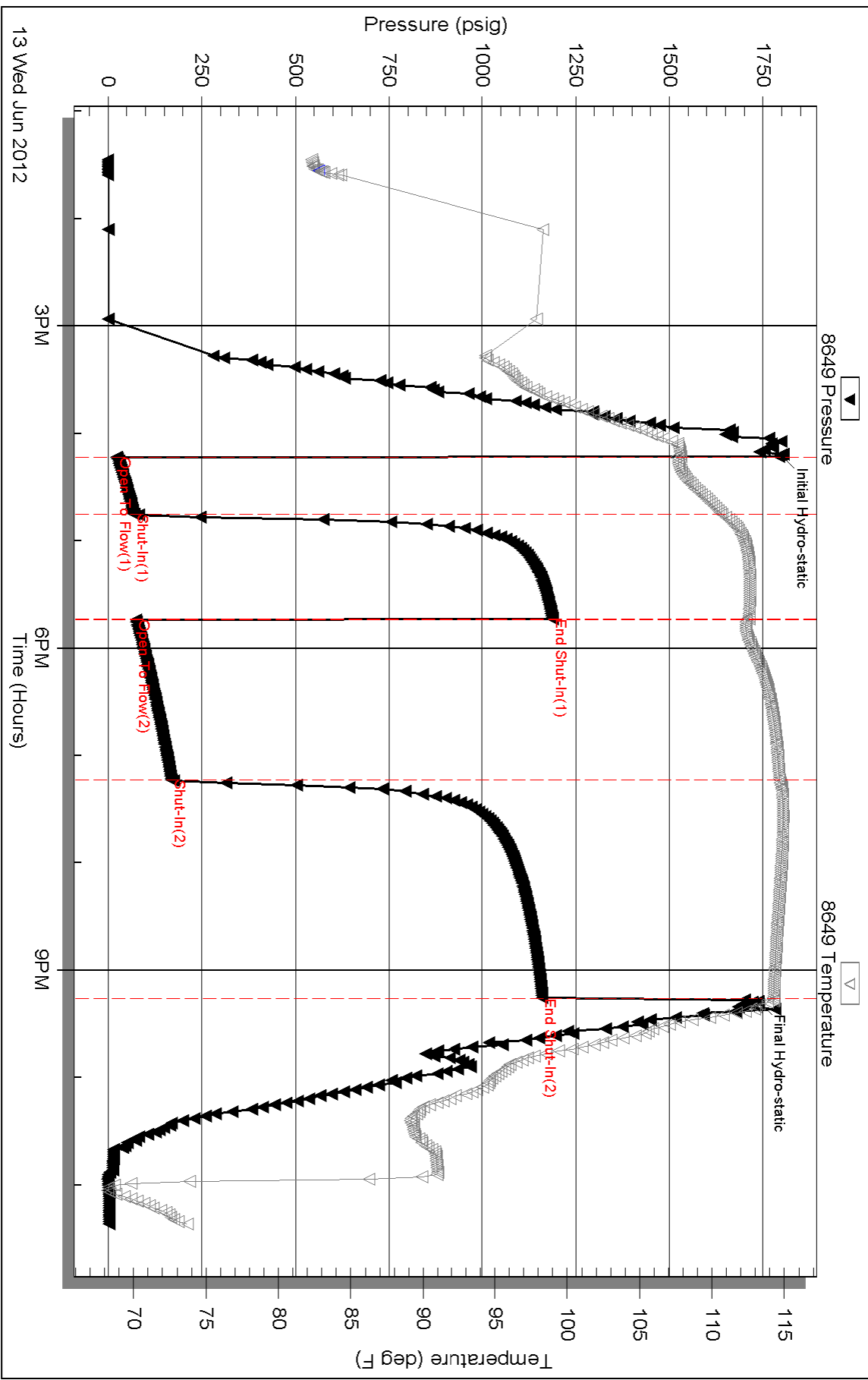
Inside

Caerus Ks, LLC

Harrison #36-23

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47546

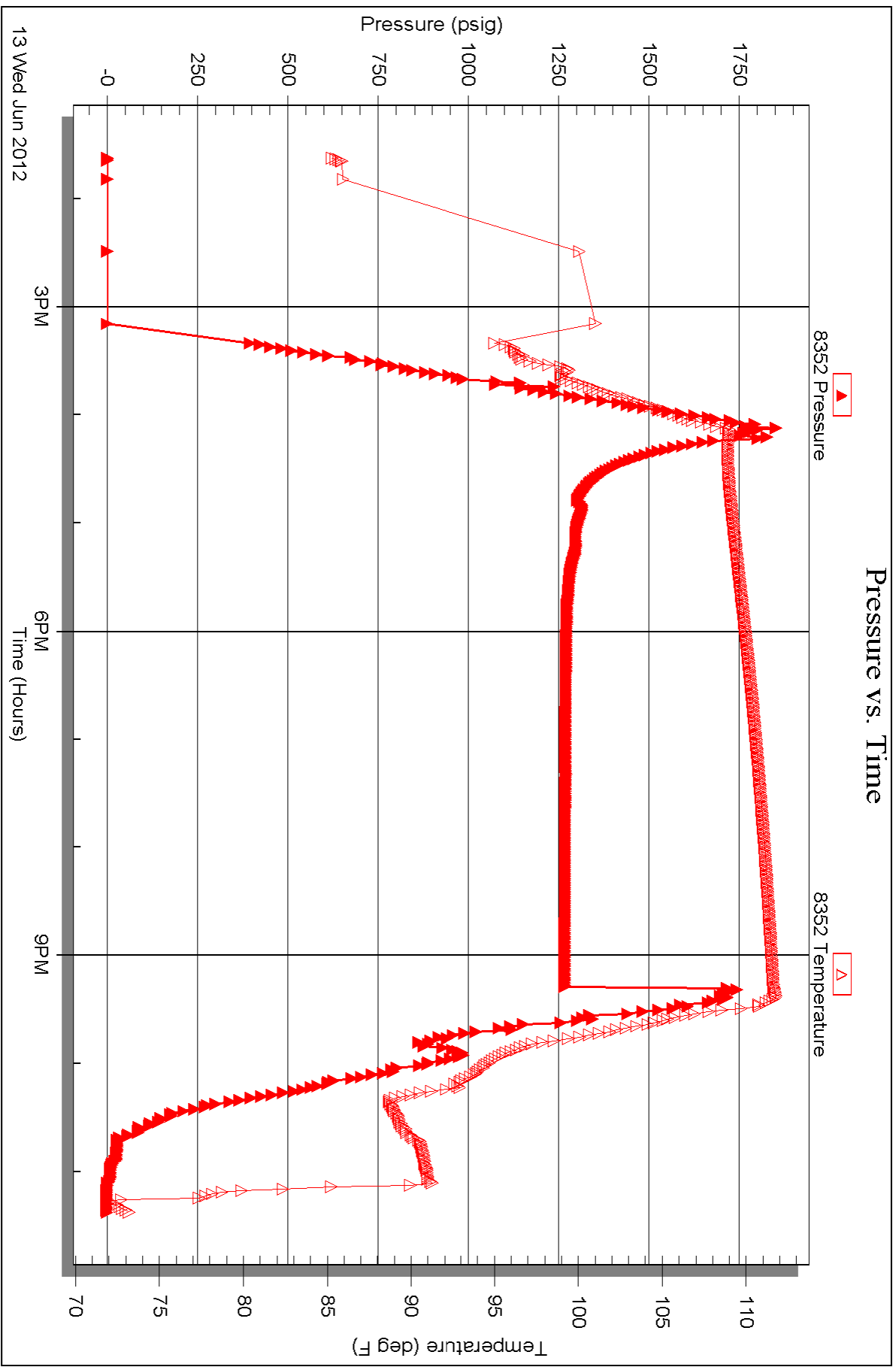
Printed: 2012.06.14 @ 08:02:36

Serial #: 8352

Below (Str ~~at~~ Ks, LLC

Harrison #36-23

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47547

DST#: 3

ATTN: Roger Fisher

Test Start: 2012.06.14 @ 11:34:01

GENERAL INFORMATION:

Formation: **Lans. H & I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:37:46

Time Test Ended: 19:18:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3709.00 ft (KB) To 3750.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3750.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8352 Inside

Press @ Run Depth: 16.30 psig @ 3710.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.14

End Date:

2012.06.14

Last Calib.:

2012.06.14

Start Time: 11:34:06

End Time:

19:18:00

Time On Btm:

2012.06.14 @ 14:36:16

Time Off Btm:

2012.06.14 @ 17:28:16

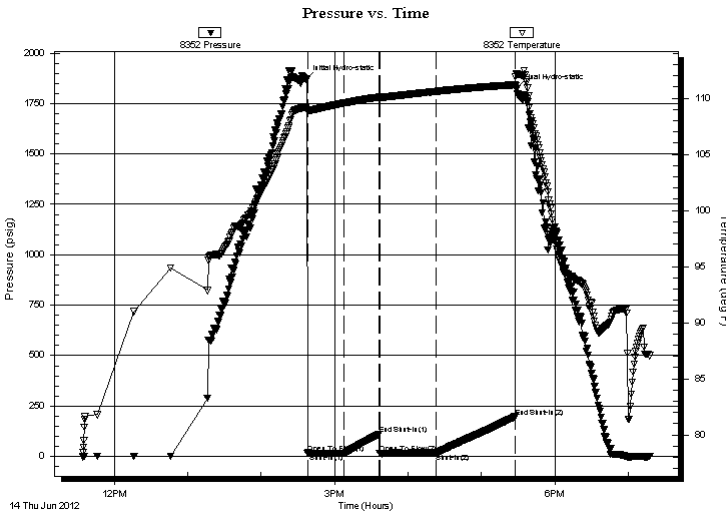
TEST COMMENT: IF:Weak blow . Increase to 5 1/2".

IS:No blow .

FF:Weak to fair blow . 3 - 6".

FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1870.65	109.21	Initial Hydro-static
2	16.43	108.81	Open To Flow (1)
32	14.81	109.58	Shut-In(1)
61	111.30	110.10	End Shut-In(1)
61	15.25	110.05	Open To Flow (2)
107	16.30	110.61	Shut-In(2)
171	196.51	111.21	End Shut-In(2)
172	1824.19	112.19	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	SOCM 3%o 97%m	0.07
0.00	180 ft.of GIP	0.00

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

ATTN: Roger Fisher

Job Ticket: 47547

DST#: 3

Test Start: 2012.06.14 @ 11:34:01

GENERAL INFORMATION:

Formation: **Lans. H & I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:37:46

Time Test Ended: 19:18:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3709.00 ft (KB) To 3750.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3750.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8370

Outside

Press @RunDepth: psig @ 3710.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.14 End Date: 2012.06.14

Last Calib.: 2012.06.14

Start Time: 11:29:48 End Time: 19:15:27

Time On Btm:

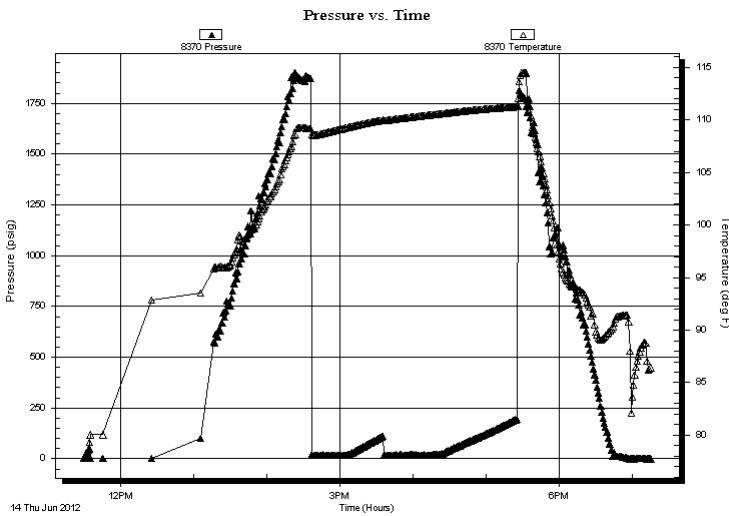
Time Off Btm:

TEST COMMENT: IF:Weak blow . Increase to 5 1/2".

IS:No blow .

FF:Weak to fair blow . 3 - 6".

FS:No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 3%o 97%m	0.07
0.00	180 ft.of 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

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47547

DST#: 3

ATTN: Roger Fisher

Test Start: 2012.06.14 @ 11:34:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

11000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	SOCM 3%o 97%m	0.070
0.00	180 ft.of GIP	0.000

Total Length: 5.00 ft Total Volume: 0.070 bbf

Num Fluid Samples: 0

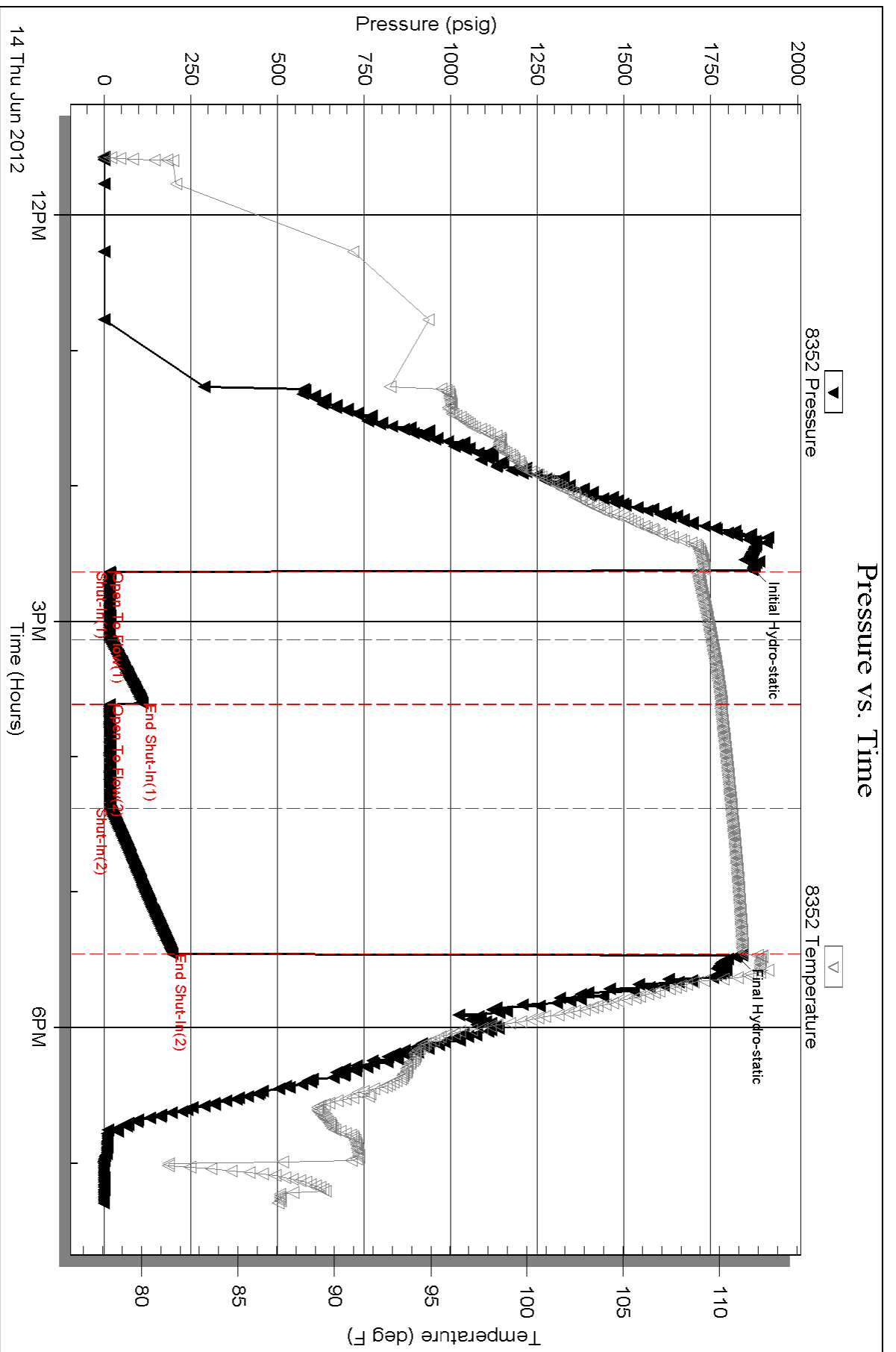
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

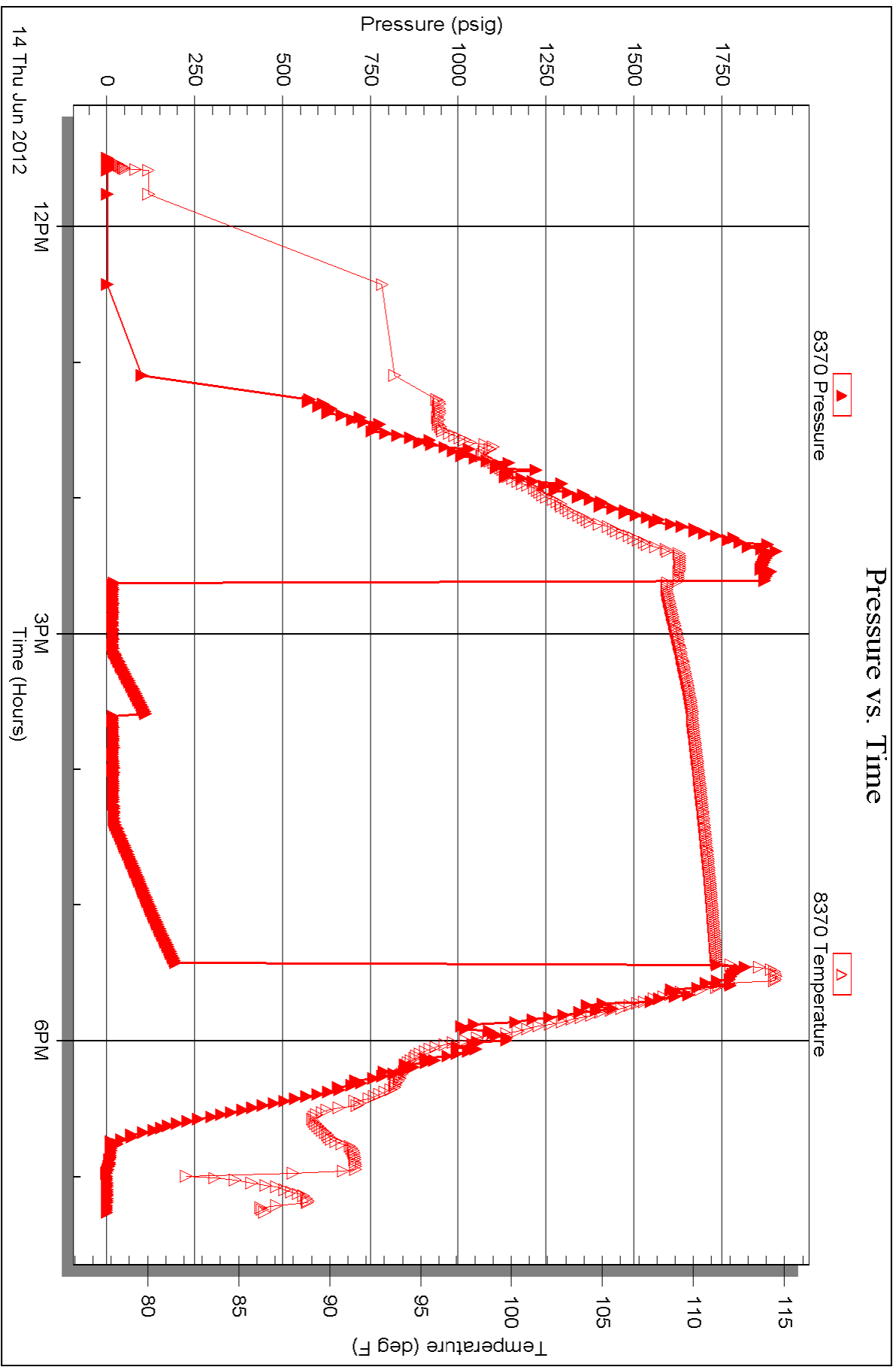


Serial #: 8370

Outside Caerus Ks, LLC

Harrison #36-23

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47548

DST#: 4

ATTN: Roger Fisher

Test Start: 2012.06.15 @ 05:08:02

GENERAL INFORMATION:

Formation: **Lans I - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:02:02

Time Test Ended: 14:22:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3750.00 ft (KB) To 3800.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3800.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8352 Inside

Press @ Run Depth: 169.64 psig @ 3751.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.15 End Date: 2012.06.15

Last Calib.: 2012.06.15

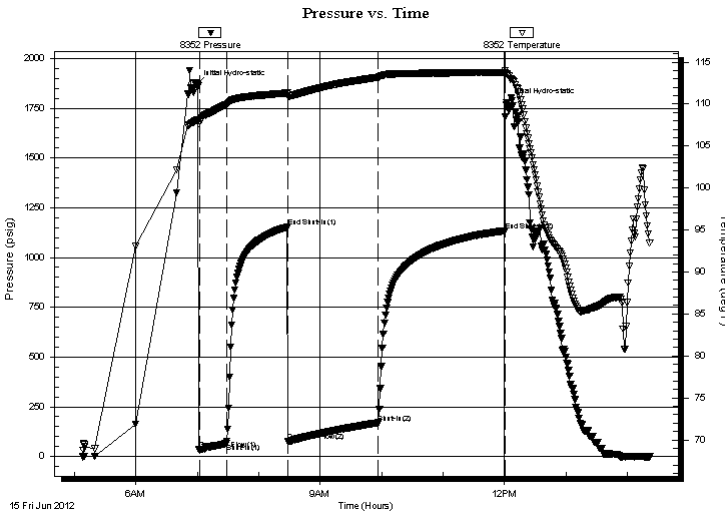
Start Time: 05:08:07 End Time: 14:22:32

Time On Btm: 2012.06.15 @ 06:59:47

Time Off Btm: 2012.06.15 @ 12:02:17

TEST COMMENT: IF: Strong blow . B.O.B. in 3 1/2 mins.
IS: Weak blow . 1/4".
FF: Strong blow . B.O.B. in 8 1/2 mins.
FS: Weak blow . 1/2 - 1 1/2".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1865.73	108.08	Initial Hydro-static
3	34.54	107.70	Open To Flow (1)
29	66.20	109.96	Shut-In(1)
89	1152.21	111.30	End Shut-In(1)
89	75.09	110.97	Open To Flow (2)
177	169.64	113.18	Shut-In(2)
301	1134.46	113.77	End Shut-In(2)
303	1775.38	113.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	830 ft.of GIP	0.00
80.00	GOCM 24%g 21%o 55%m	1.12
400.00	GOCMW 5%g 6%o 34%m 55%w	5.61
155.00	SW/w o specs/Rw .07ohms@88deg	2.17

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47548

DST#: 4

ATTN: Roger Fisher

Test Start: 2012.06.15 @ 05:08:02

GENERAL INFORMATION:

Formation: **Lans I - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:02:02

Time Test Ended: 14:22:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3750.00 ft (KB) To 3800.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3800.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8370 Outside

Press @RunDepth: psig @ 3751.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.15 End Date: 2012.06.15

Last Calib.: 2012.06.15

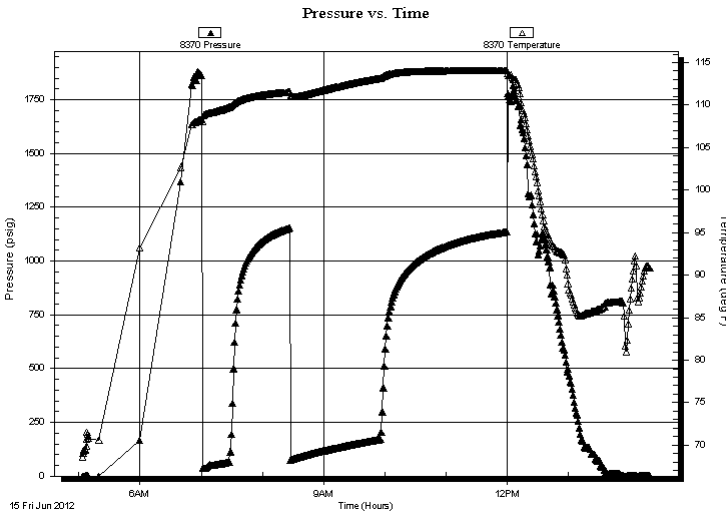
Start Time: 05:03:48 End Time: 14:20:13

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Strong blow . B.O.B. in 3 1/2 mins.
IS:Weak blow . 1/4".
FF:Strong blow . B.O.B. in 8 1/2 mins.
FS:Weak blow . 1/2 - 1 1/2".

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	830 ft.of GIP	0.00
80.00	GOCM 24%g 21%o 55%m	1.12
400.00	GOCMW 5%g 6%o 34%m 55%w	5.61
155.00	SW/w o specs/Rw .07ohms@88deg	2.17

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47548

DST#: 4

ATTN: Roger Fisher

Test Start: 2012.06.15 @ 05:08:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

90000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10200.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	830 ft.of GIP	0.000
80.00	GOCM 24%g 21%o 55%m	1.122
400.00	GOCMW 5%g 6%o 34%m 55%w	5.611
155.00	SW/w o specs/Rw .07ohms @88deg	2.174

Total Length: 635.00 ft

Total Volume: 8.907 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8352

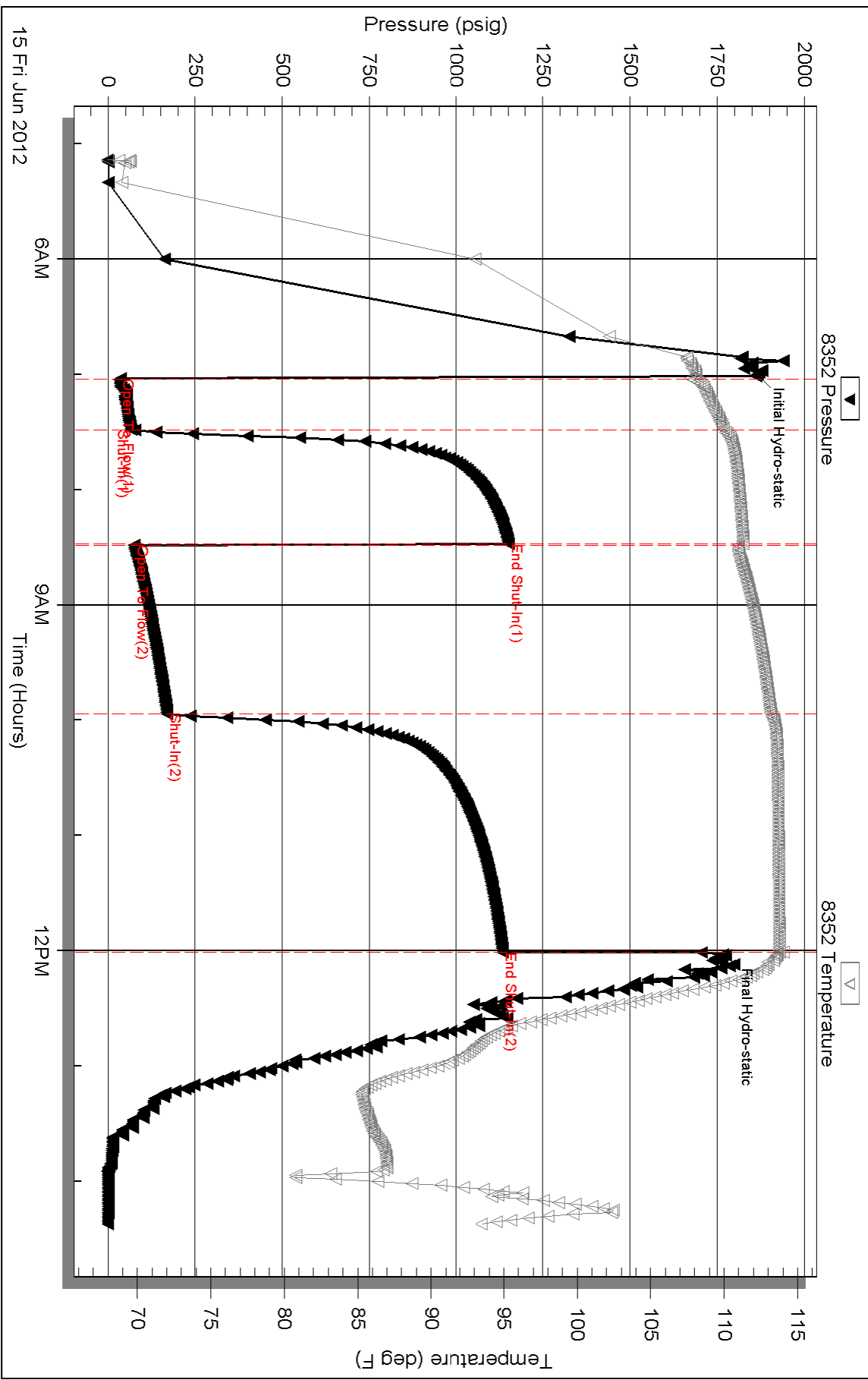
Inside

Caerus Ks, LLC

Harrison #36-23

DST Test Number: 4

Pressure vs. Time

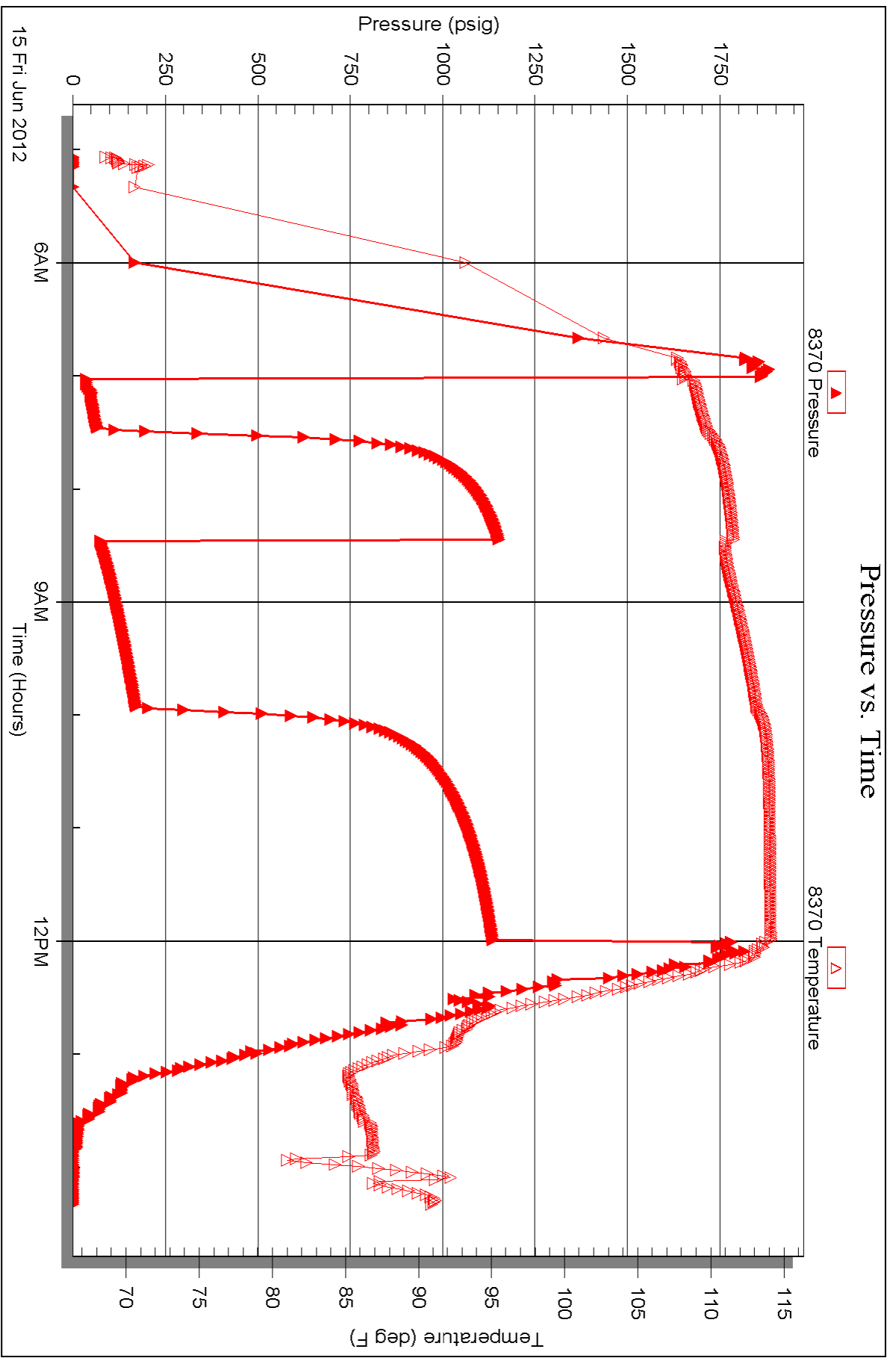


Serial #: 8370

Outside Caerus Ks, LLC

Harrison #36-23

DST Test Number: 4





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47549

DST#: 5

ATTN: Roger Fisher

Test Start: 2012.06.16 @ 01:03:38

GENERAL INFORMATION:

Formation: **Lans. K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:01:23

Time Test Ended: 10:45:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3810.00 ft (KB) To 3830.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3830.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8352

Inside

Press @ Run Depth: 73.04 psig @ 3811.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.16

End Date:

2012.06.16

Last Calib.:

2012.06.17

Start Time: 01:03:43

End Time:

10:45:08

Time On Btm:

2012.06.16 @ 02:56:23

Time Off Btm:

2012.06.16 @ 08:02:08

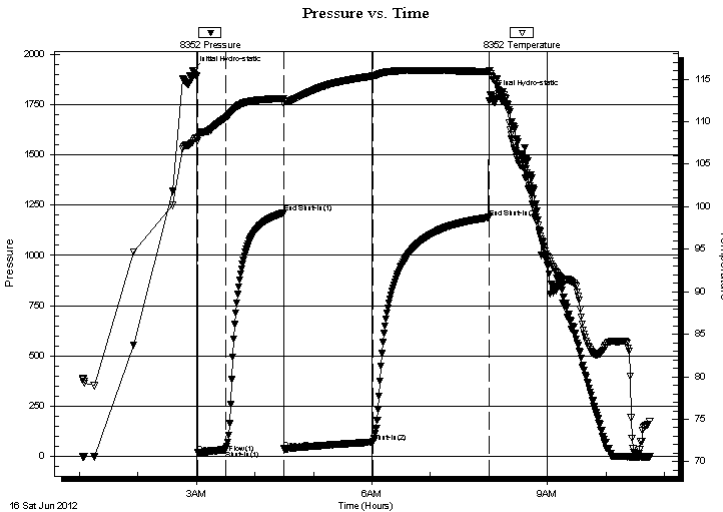
TEST COMMENT: IF: Fair blow . Increase to 10 1/2".

IS: No blow ..

FF: Weak blow . Slow increase to 5 1/2".

FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.81	107.54	Initial Hydro-static
5	18.80	107.73	Open To Flow (1)
34	33.03	110.43	Shut-In(1)
93	1211.45	112.74	End Shut-In(1)
94	38.46	112.16	Open To Flow (2)
185	73.04	115.37	Shut-In(2)
304	1189.02	115.90	End Shut-In(2)
306	1797.41	115.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	190 ft.of GIP	0.00
25.00	OCMW 8%o 38%m 54%w	0.35
60.00	MW w o specs 12% m 88%w /Rw .09@70.84	

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47549

DST#: 5

ATTN: Roger Fisher

Test Start: 2012.06.16 @ 01:03:38

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

78000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	190 ft.of GIP	0.000
25.00	OCMW 8%o 38%m 54%w	0.351
60.00	MW w o specs 12% m 88%w /Rw .09@77 drt	0.842

Total Length: 85.00 ft

Total Volume: 1.193 bbl

Num Fluid Samples: 0

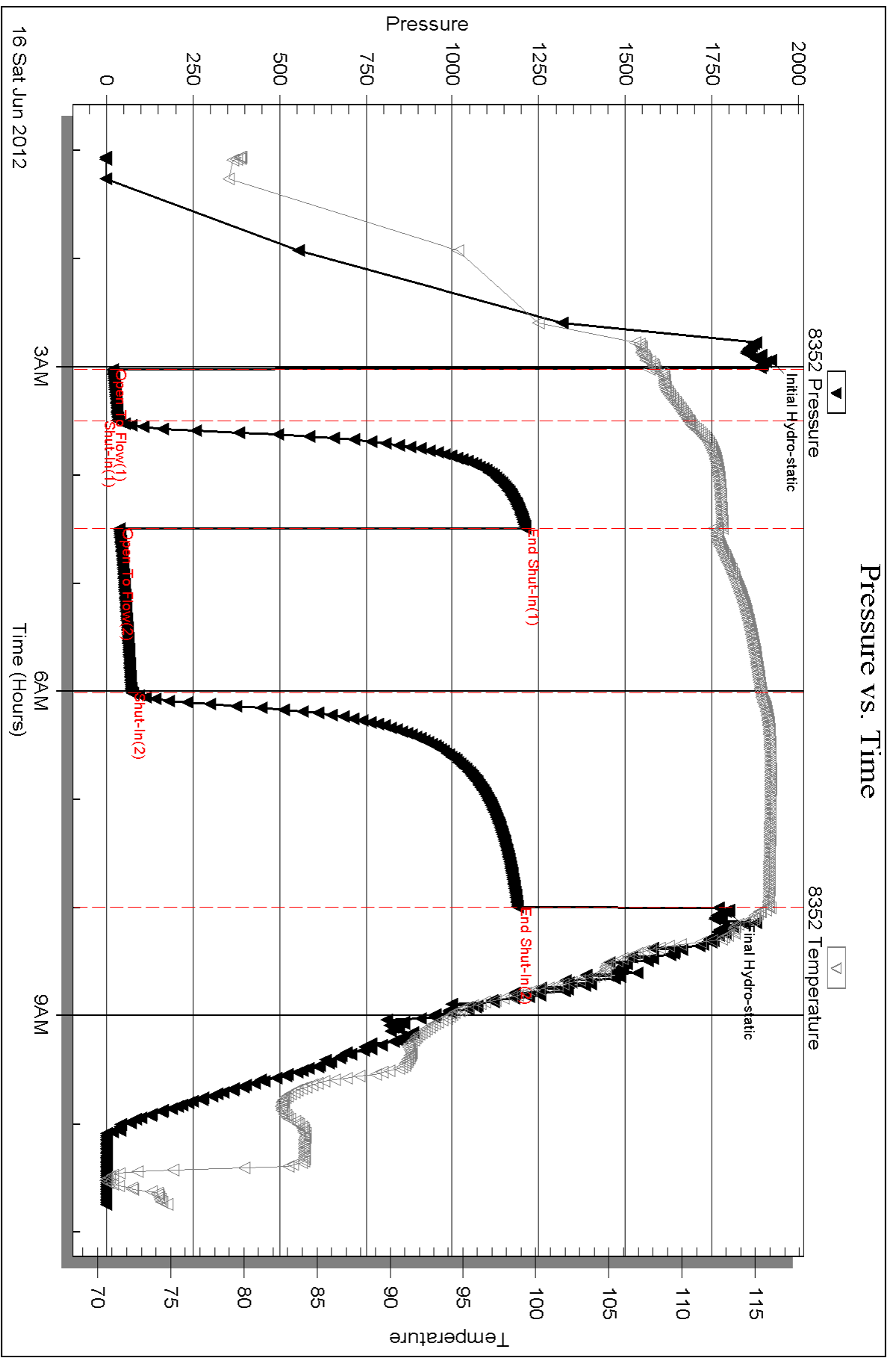
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47550

DST#: 6

ATTN: Roger Fisher

Test Start: 2012.06.17 @ 00:22:27

GENERAL INFORMATION:

Formation: **Kinderhook**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:35:42

Time Test Ended: 07:42:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3888.00 ft (KB) To 3940.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8352 Inside

Press @RunDepth: 17.08 psig @ 3889.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.17

End Date:

2012.06.17

Last Calib.:

2012.06.17

Start Time: 00:22:32

End Time:

07:42:41

Time On Btm:

2012.06.17 @ 02:34:42

Time Off Btm:

2012.06.17 @ 05:30:27

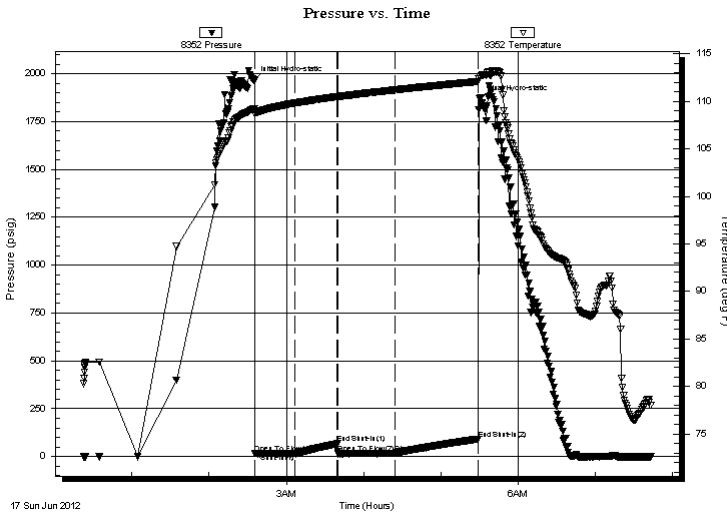
TEST COMMENT: IF:Weak blow . Increase to 4".

IS:No blow .

FF:Weak blow . 2 - 5".

FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1964.16	109.23	Initial Hydro-static
1	18.03	108.72	Open To Flow (1)
32	14.96	109.80	Shut-In(1)
65	67.37	110.50	End Shut-In(1)
66	14.89	110.47	Open To Flow (2)
110	17.08	111.20	Shut-In(2)
174	91.11	112.07	End Shut-In(2)
176	1864.82	112.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	119 ft.of GIP	0.00
6.00	Drig.mud w oil specs	0.08

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47550

DST#: 6

ATTN: Roger Fisher

Test Start: 2012.06.17 @ 00:22:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

9000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	119 ft.of GIP	0.000
6.00	Drig.mud w oil specs	0.084

Total Length: 6.00 ft Total Volume: 0.084 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

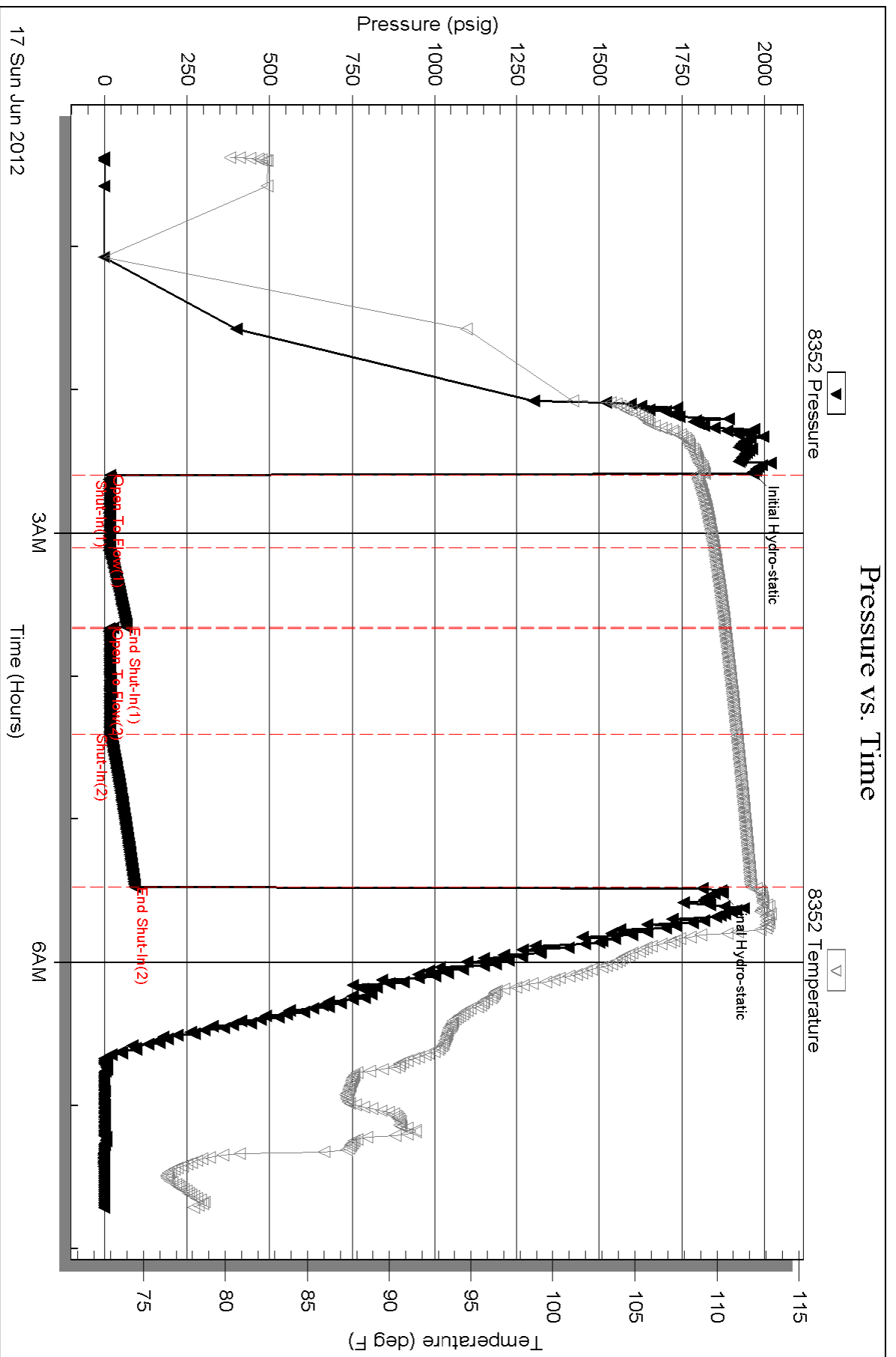
Serial #: 8352

Inside

Caerus Ks, LLC

Harrison #36-23

DST Test Number: 6

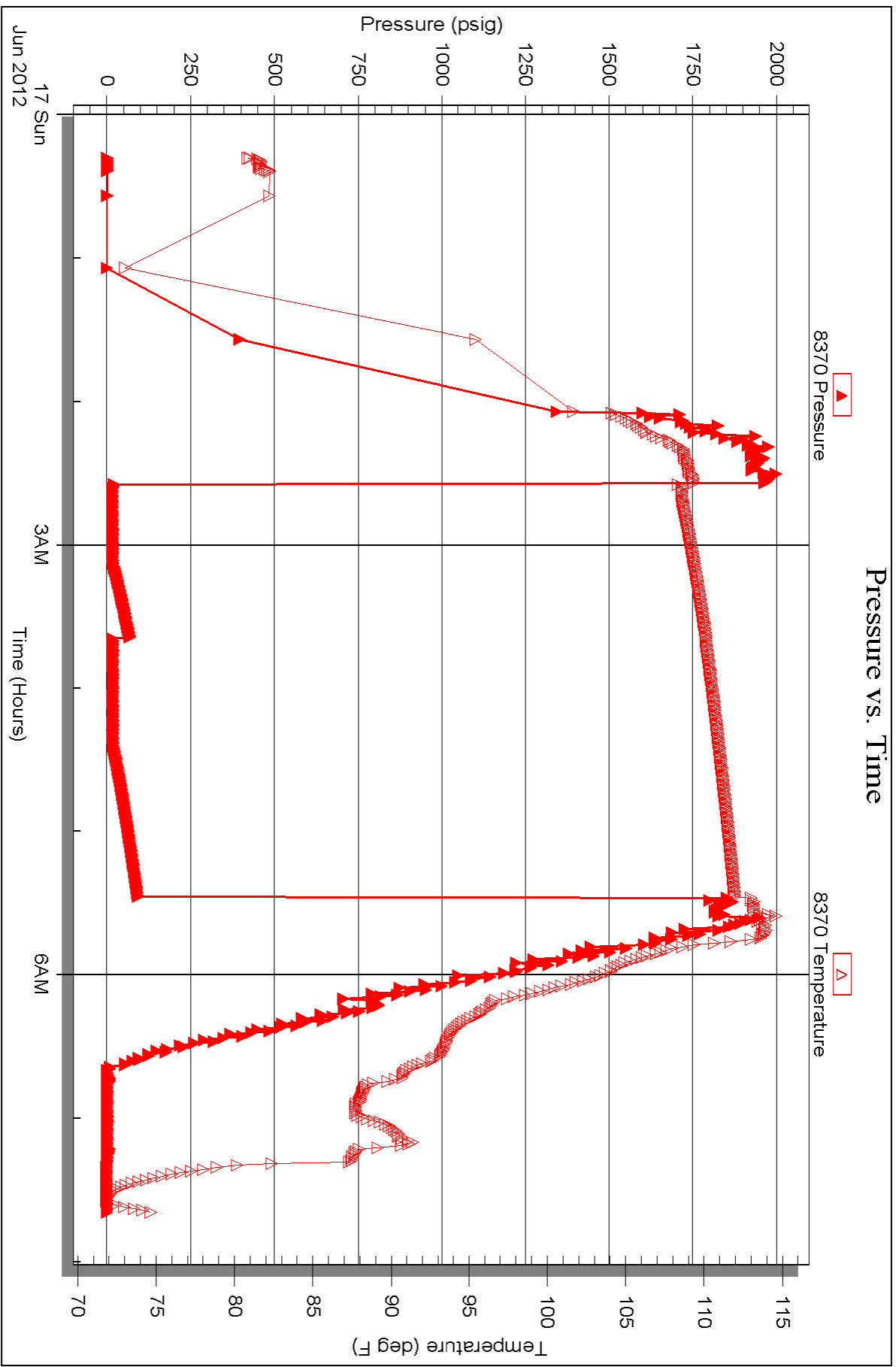


Serial #: 8370

Outside Caerus Ks, LLC

Harrison #36-23

DST Test Number: 6





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47576

DST#: 7

ATTN: Roger Fisher

Test Start: 2012.06.18 @ 13:23:04

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:35:04

Time Test Ended: 22:41:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4143.00 ft (KB) To 4159.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 4159.00 ft (KB) (TVD)

1909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8352 Inside

Press @RunDepth: 12.06 psig @ 4144.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.18 End Date: 2012.06.18

Last Calib.: 2012.06.18

Start Time: 13:23:09 End Time: 22:41:49

Time On Btm: 2012.06.18 @ 15:33:19

Time Off Btm: 2012.06.18 @ 20:42:34

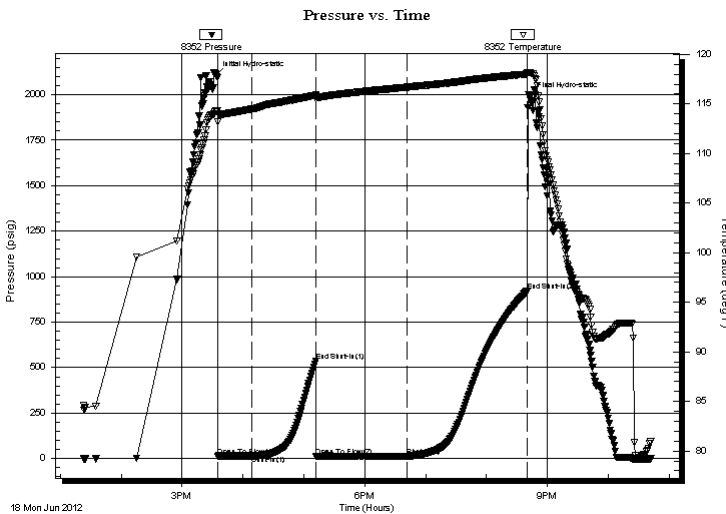
TEST COMMENT: IF:Very weak blow .Dead in 6 mins.

IS:No blow .

FF:No blow .

FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.01	114.28	Initial Hydro-static
2	13.20	113.17	Open To Flow (1)
36	15.58	114.50	Shut-In(1)
99	535.09	115.88	End Shut-In(1)
99	13.76	115.48	Open To Flow (2)
189	12.06	116.70	Shut-In(2)
307	920.83	118.01	End Shut-In(2)
310	1988.27	118.14	Final Hydro-static

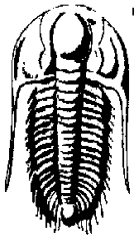
Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drig.mud w /scum of oil	0.03

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47576

DST#: 7

ATTN: Roger Fisher

Test Start: 2012.06.18 @ 13:23:04

GENERAL INFORMATION:

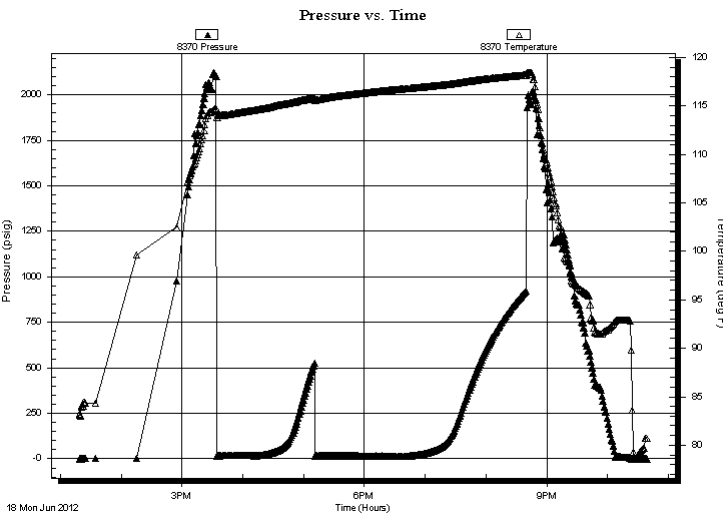
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:35:04
 Tester: Gary Pevoteaux
 Time Test Ended: 22:41:49
 Unit No: 56
 Interval: **4143.00 ft (KB) To 4159.00 ft (KB) (TVD)**
 Reference Elevations: 1922.00 ft (KB)
 Total Depth: 4159.00 ft (KB) (TVD)
 1909.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 13.00 ft

Serial #: 8370

Outside

Press @ Run Depth: psig @ 4144.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.18 End Date: 2012.06.18 Last Calib.: 2012.06.18
 Start Time: 13:18:53 End Time: 22:38:48 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:Very weak blow .Dead in 6 mins.
 IS:No blow .
 FF:No blow .
 FS:No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drig.mud w /scum of oil	0.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Ks.LLC

36-24s-13w Stafford Ks.

P.O.ox 1378
Hays Ks.67601

Harrison #36-23

Job Ticket: 47576

DST#: 7

ATTN: Roger Fisher

Test Start: 2012.06.18 @ 13:23:04

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

9000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Drig.mud w /scum of oil	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

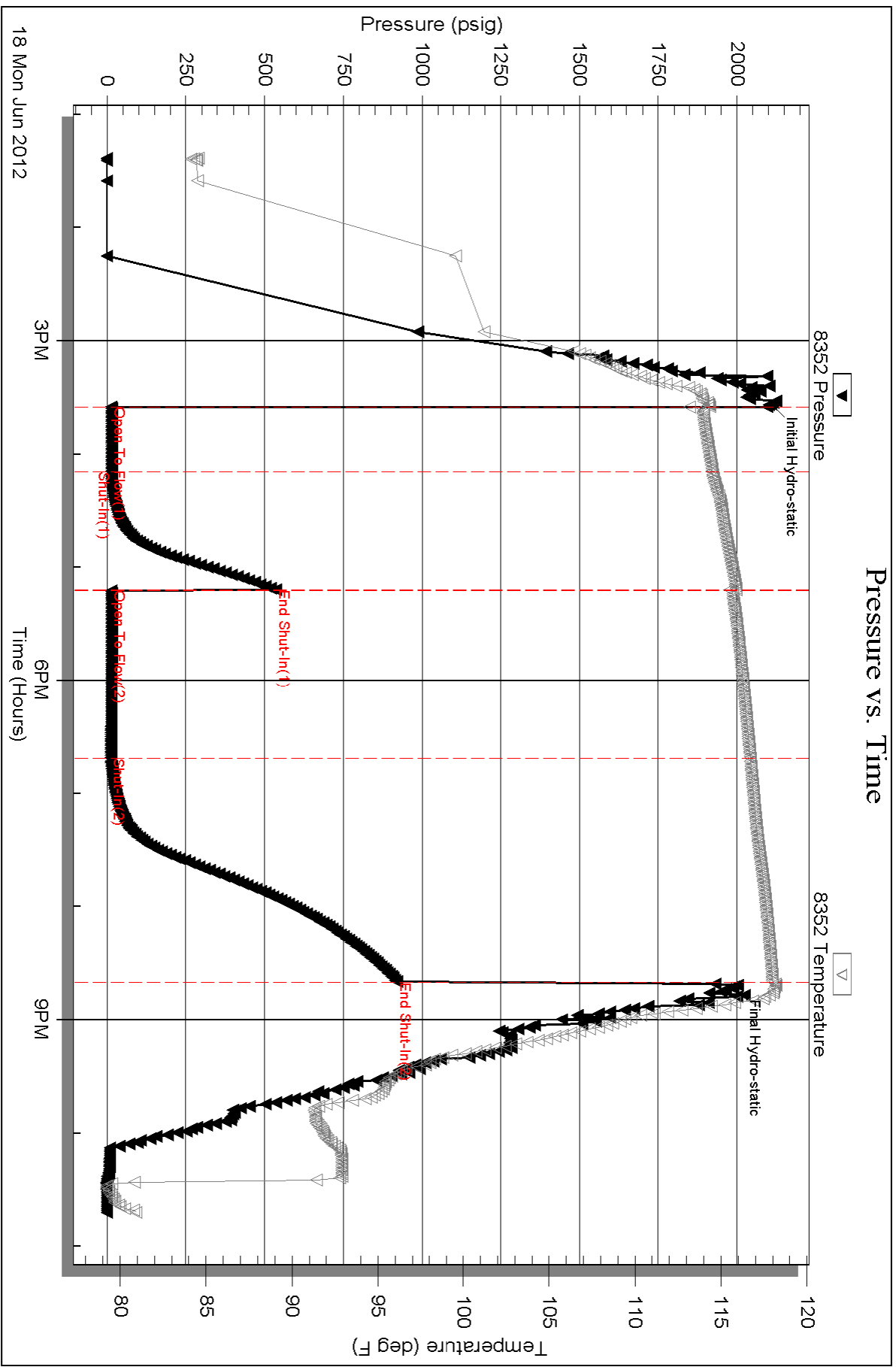
Serial #: 8352

Inside

Caerus Ks, LLC

Harrison #36-23

DST Test Number: 7



Triobite Testing, Inc

Ref. No: 47576

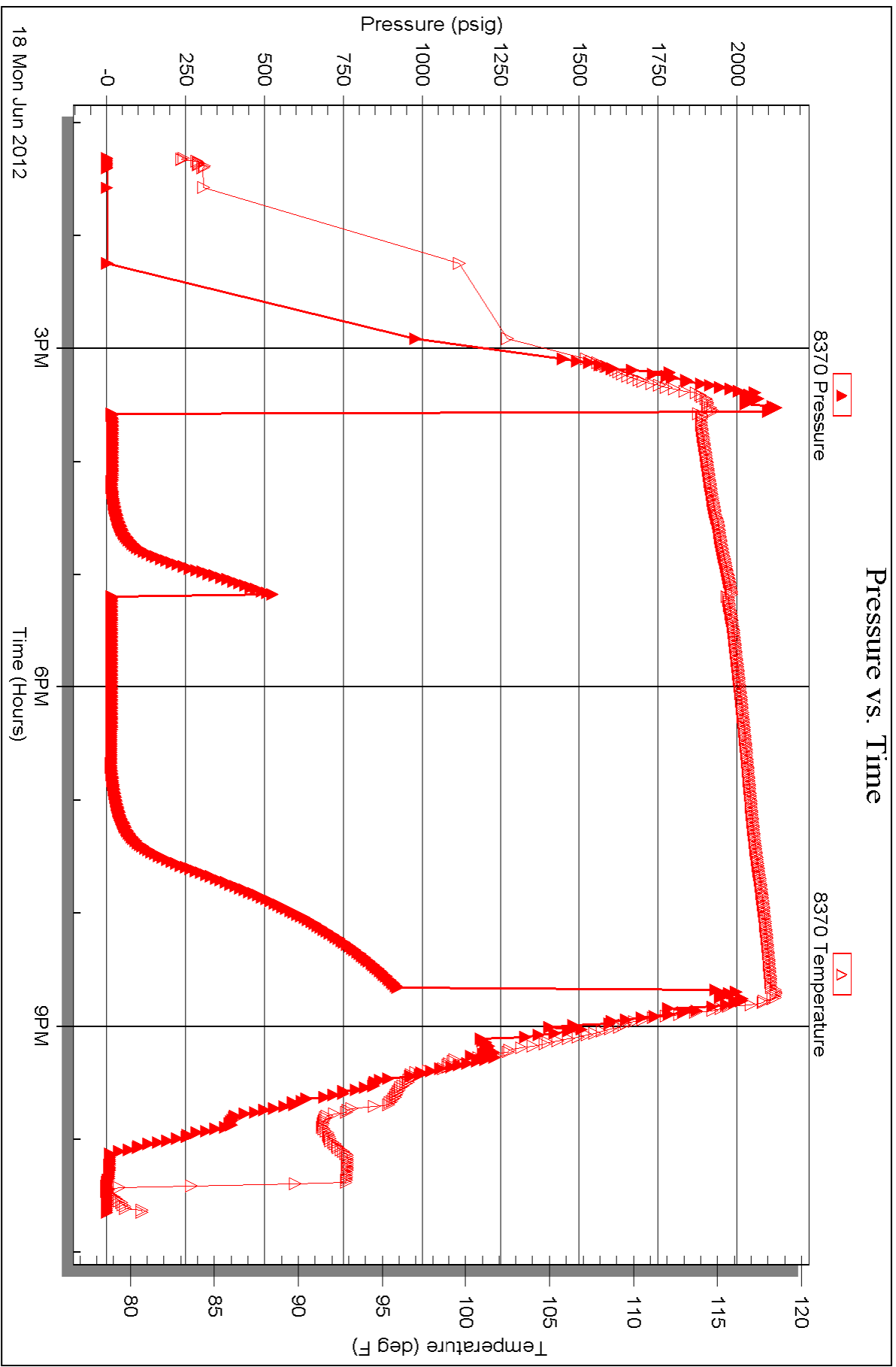
Printed: 2012.06.19 @ 05:46:18

Serial #: 8370

Outside Caerus Ks, LLC

Harrison #36-23

DST Test Number: 7





**SUPERIOR
Hays,
Kansas**

**MICRO
LOG**

Company CAERUS KANSAS, LLC.
Well HARRISON #36-23
Field CLINE SOUTH
County STAFFORD State KANSAS

Company CAERUS KANSAS, LLC.
Well HARRISON #36-23
Field CLINE SOUTH
County STAFFORD
State KANSAS

Location: API #: 15-185-23756
2310' FSL & 2310' FWL
SEC 36 TWP 24S RGE 13W
Permanent Datum GROUND LEVEL Elevation 1909
Log Measured From KELLY BUSHING 15' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL/SONIC
Elevation
K.B. 1924
D.F.
G.L. 1909

Date	6-19-12
Run Number	TW0
Depth Driller	4225
Depth Logger	4220
Bottom Logged Interval	4202
Top Log Interval	750
Casing Driller	764
Casing Logger	764
Bit Size	7.875
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2 / 52
pH / Fluid Loss	10.5 / 10.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.70 @ 84F
Rmf @ Meas. Temp	0.53 @ 84F
Rmc @ Meas. Temp	0.84 @ 84F
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.500 @ 117F
Time Circulation Stopped	3 HOURS
Time Logger on Bottom	10:45 A.M.
Maximum Recorded Temperature	117F
Equipment Number	860
Location	HAYS, KS.
Recorded By	RUPP
Witnessed By	ROGER FISHER

<<< 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

SUPERIOR WELL SERVICES
 785-628-6395
THANK YOU FOR YOUR BUSINESS
 DIRECTIONS: ST. JOHN, S TO JCT. OF #281 & #50, 3E TO 30TH ST., 3S, 1/2W, N INTO.



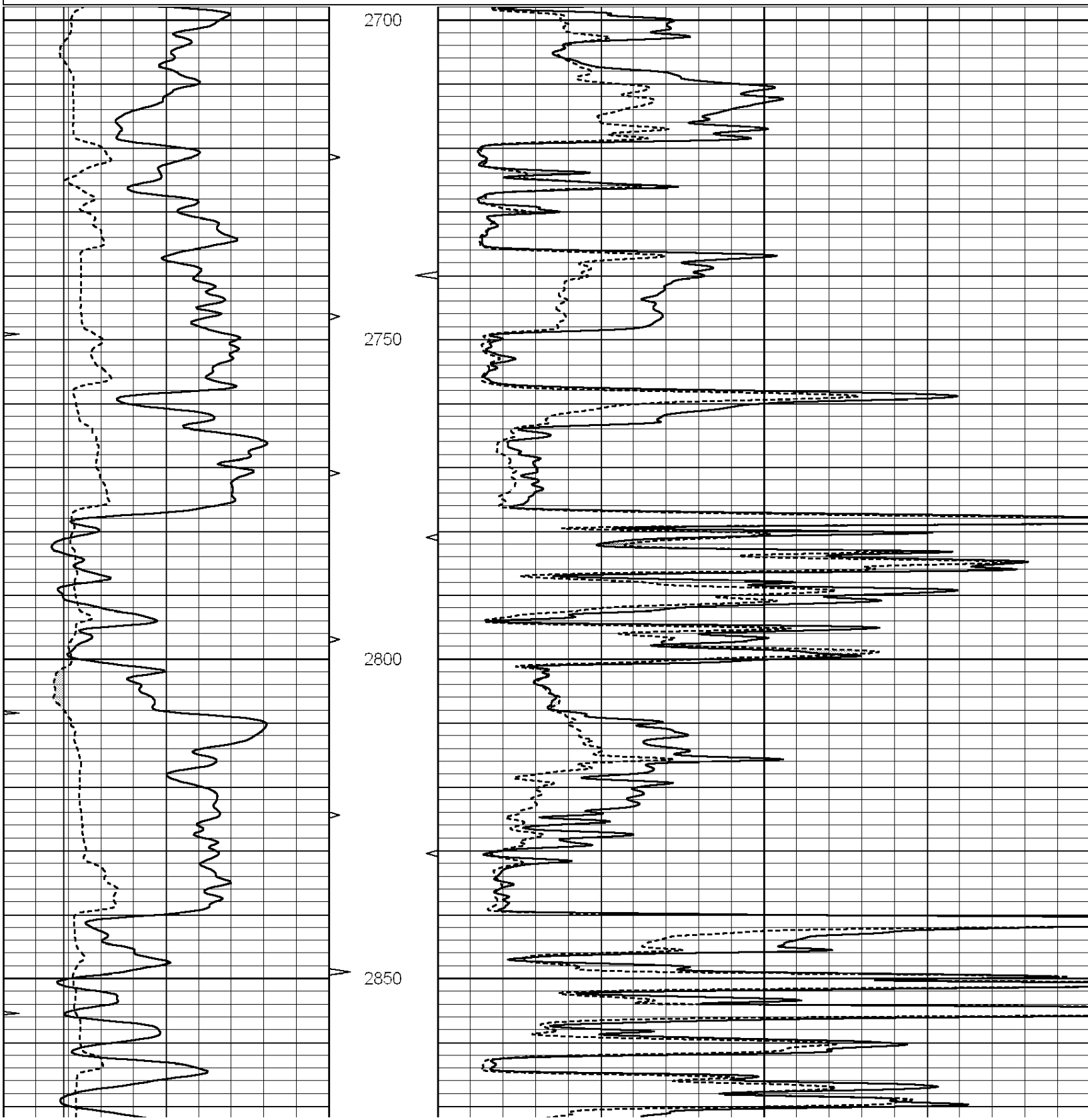
**SUPERIOR
Hays,
Kansas**

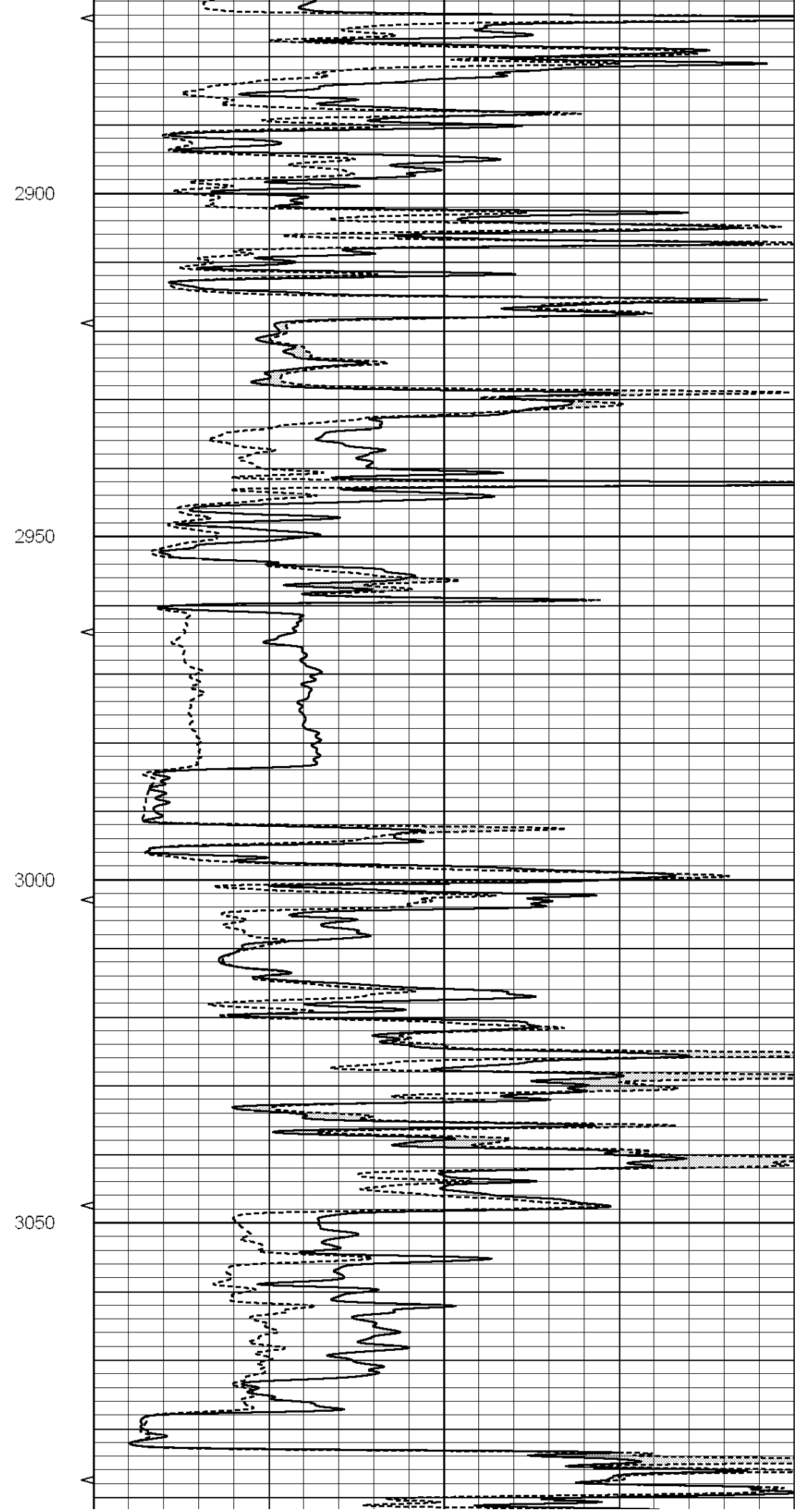
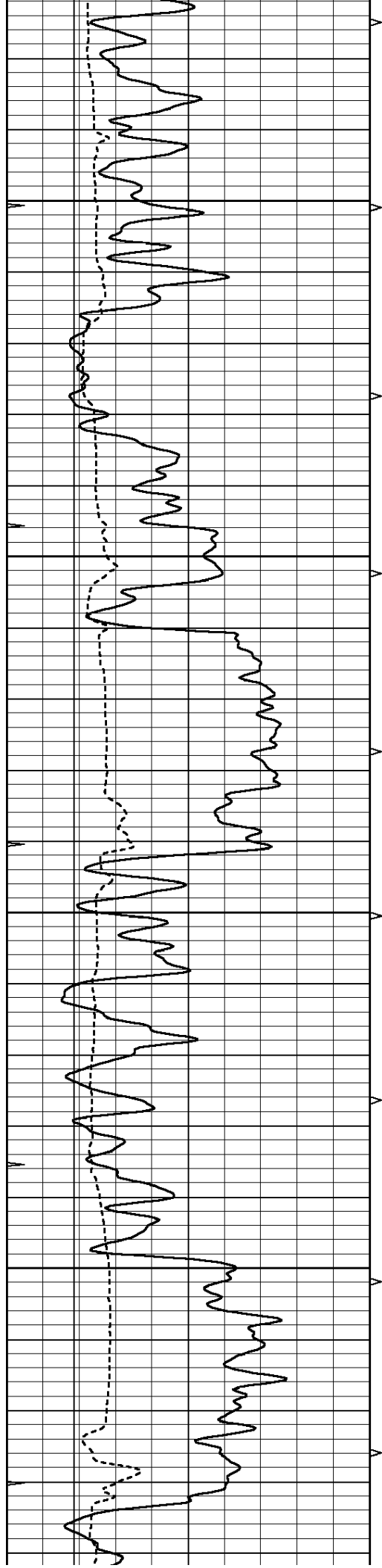
MAIN SECTION

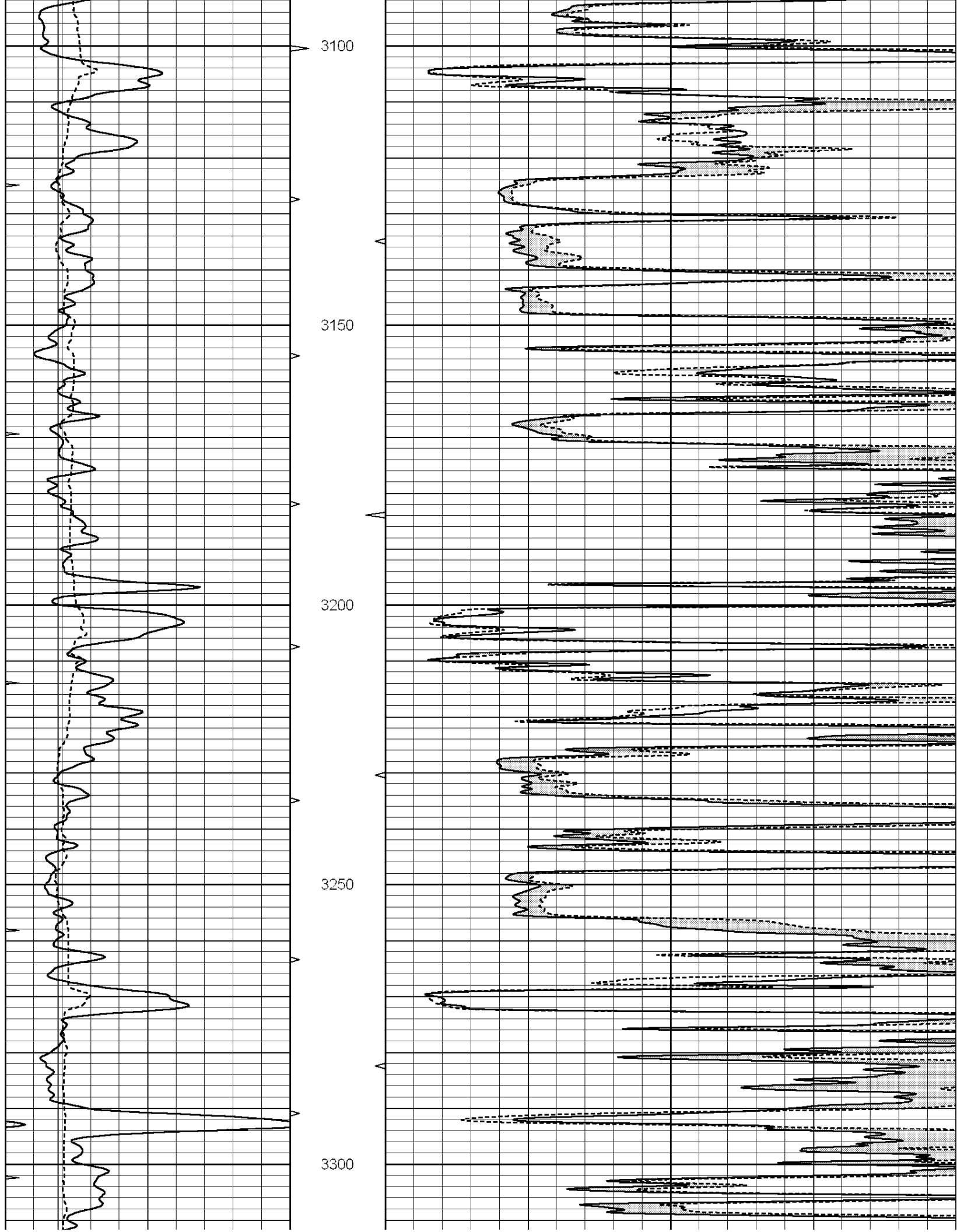
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 Dataset Pathname: pass5.1
 Presentation Format: micro
 Dataset Creation: Tue Jun 19 14:59:26 2012
 Charted by: Depth in Feet scaled 1:240

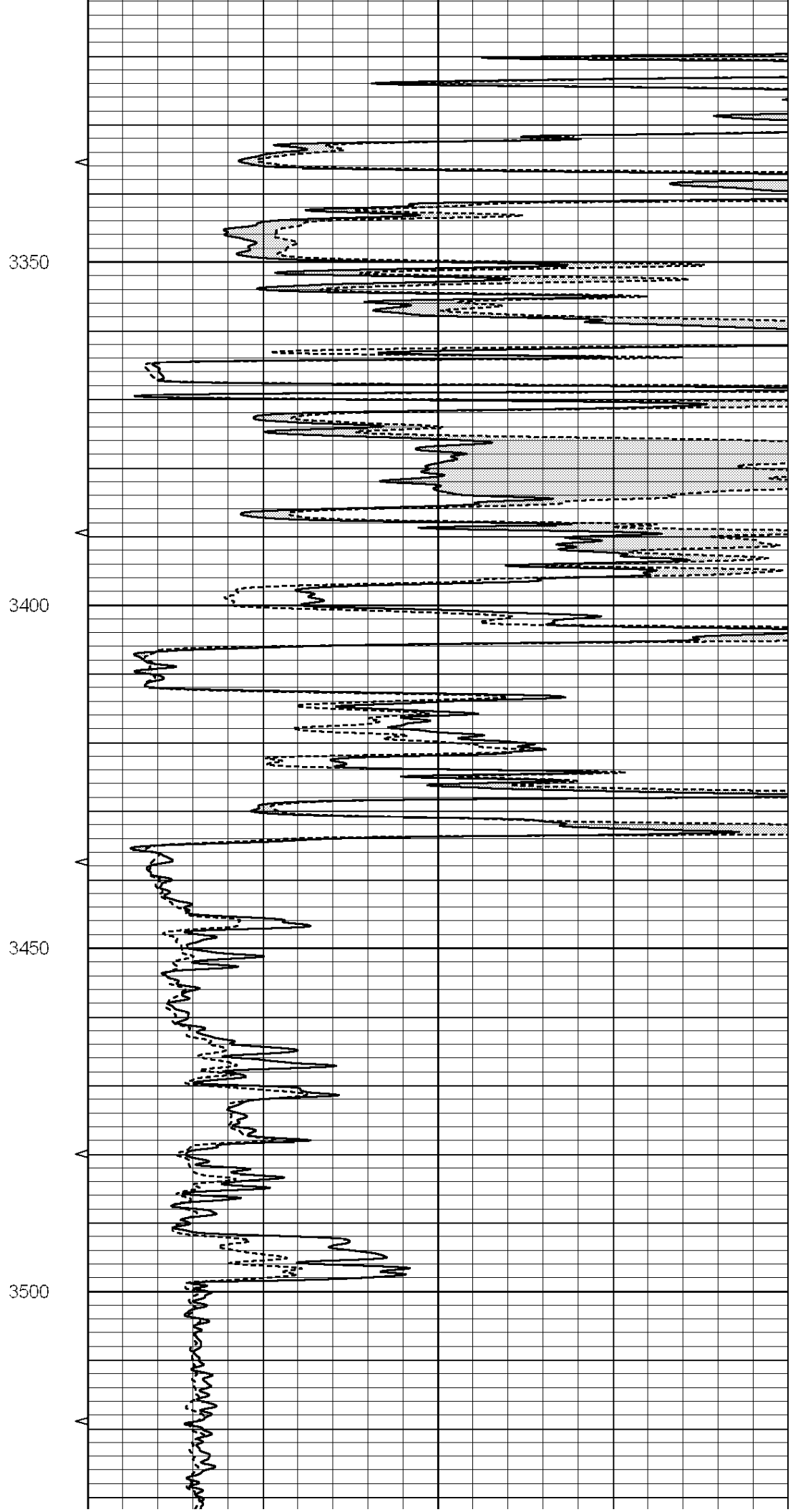
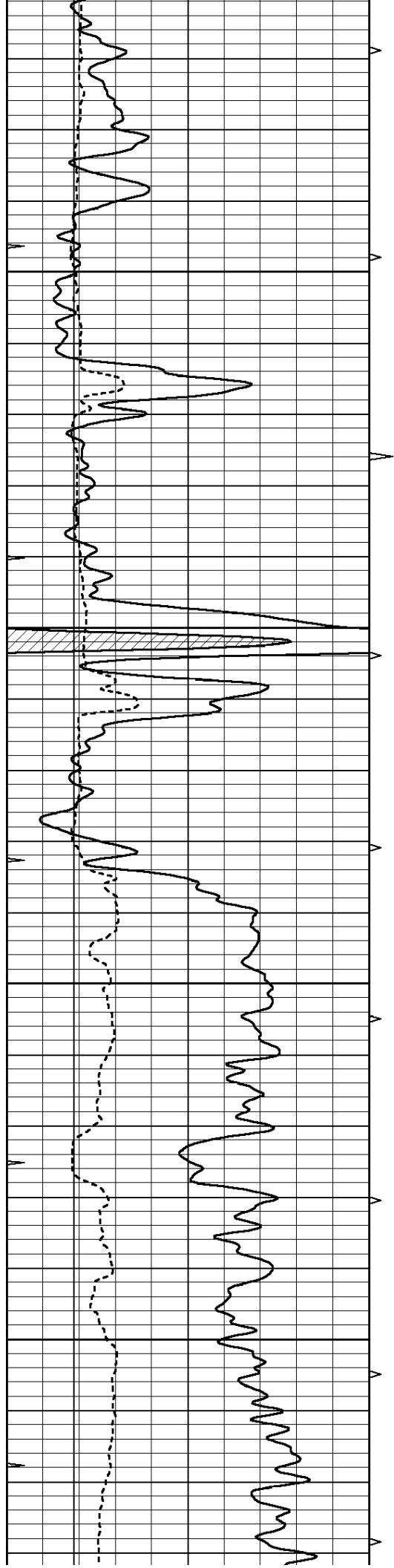
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6	MELCAL (in)	16
0	MINMK	20

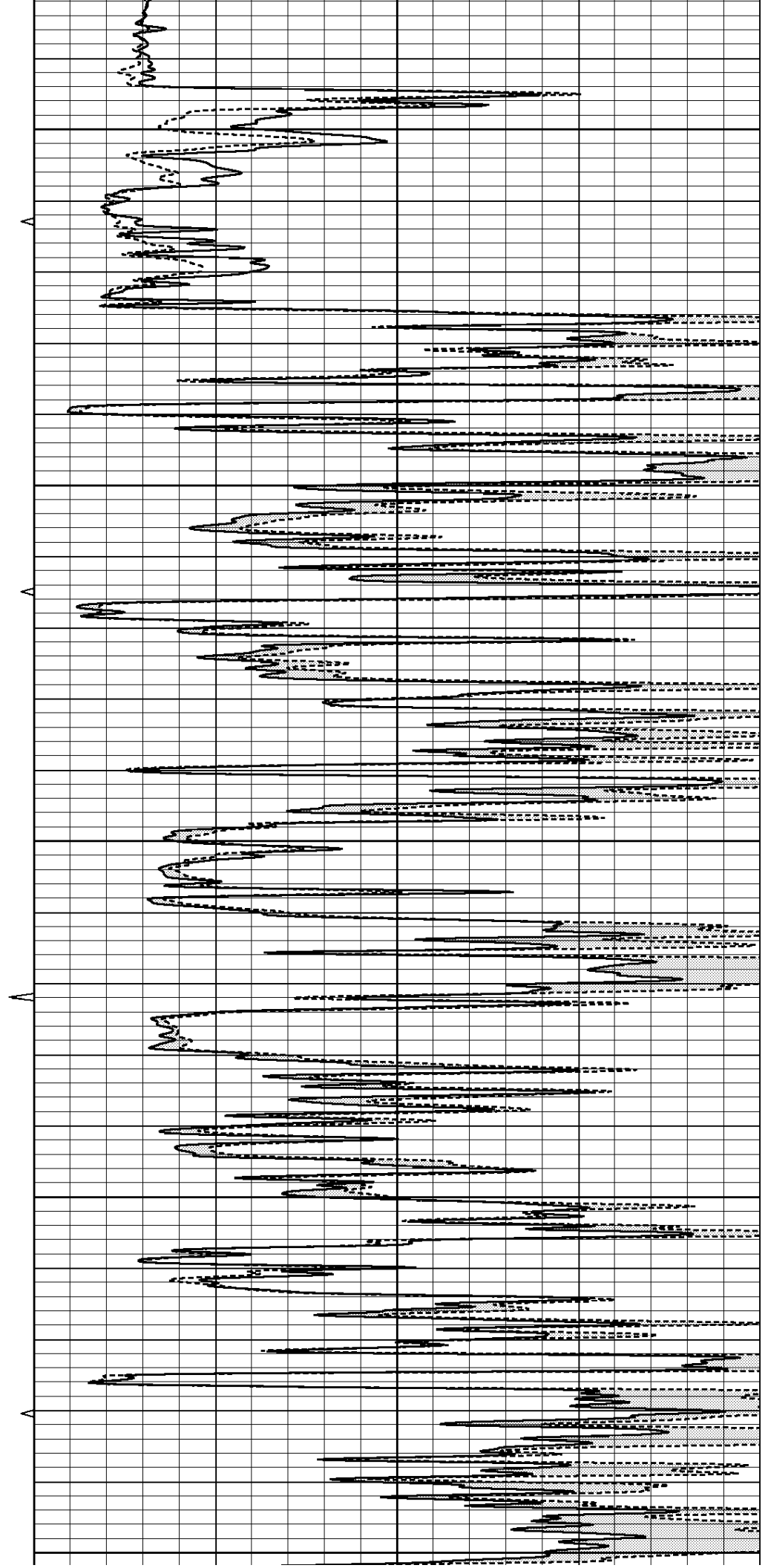
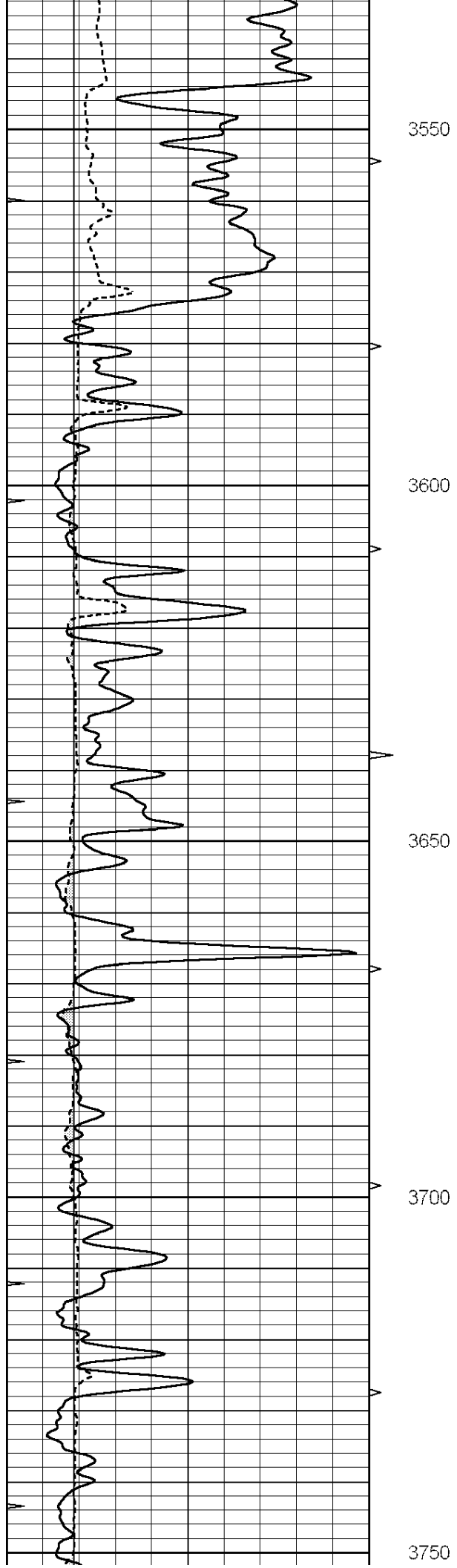
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0	MEL2.0 (Ohm-m)	40

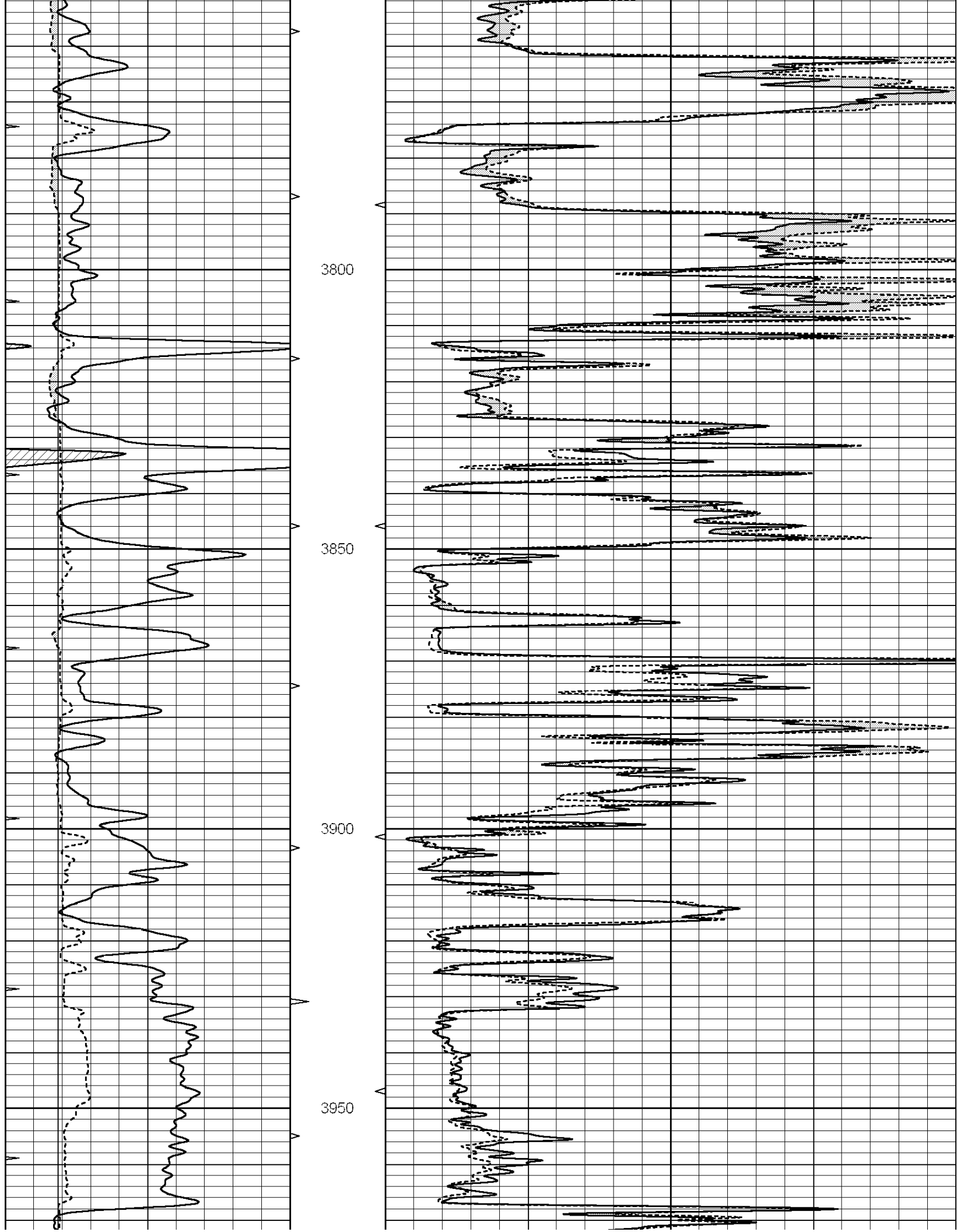


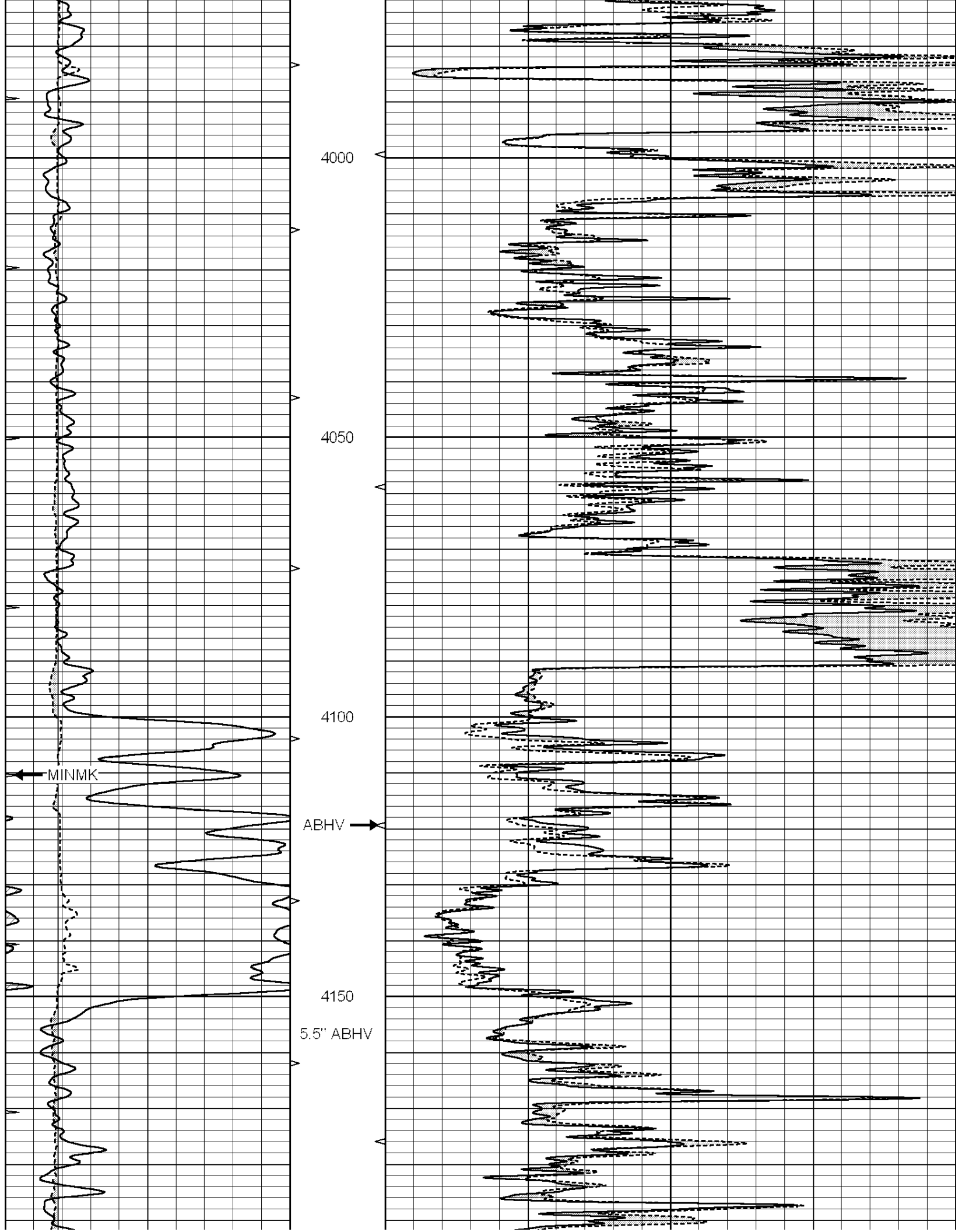


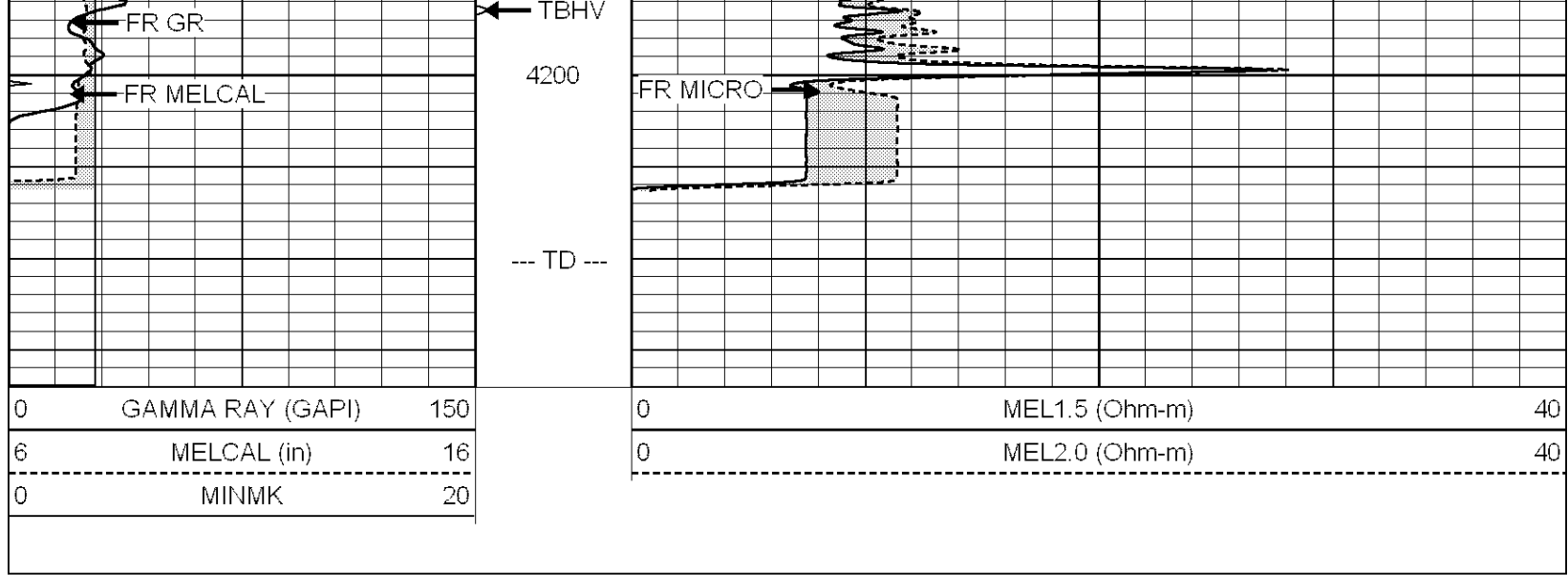










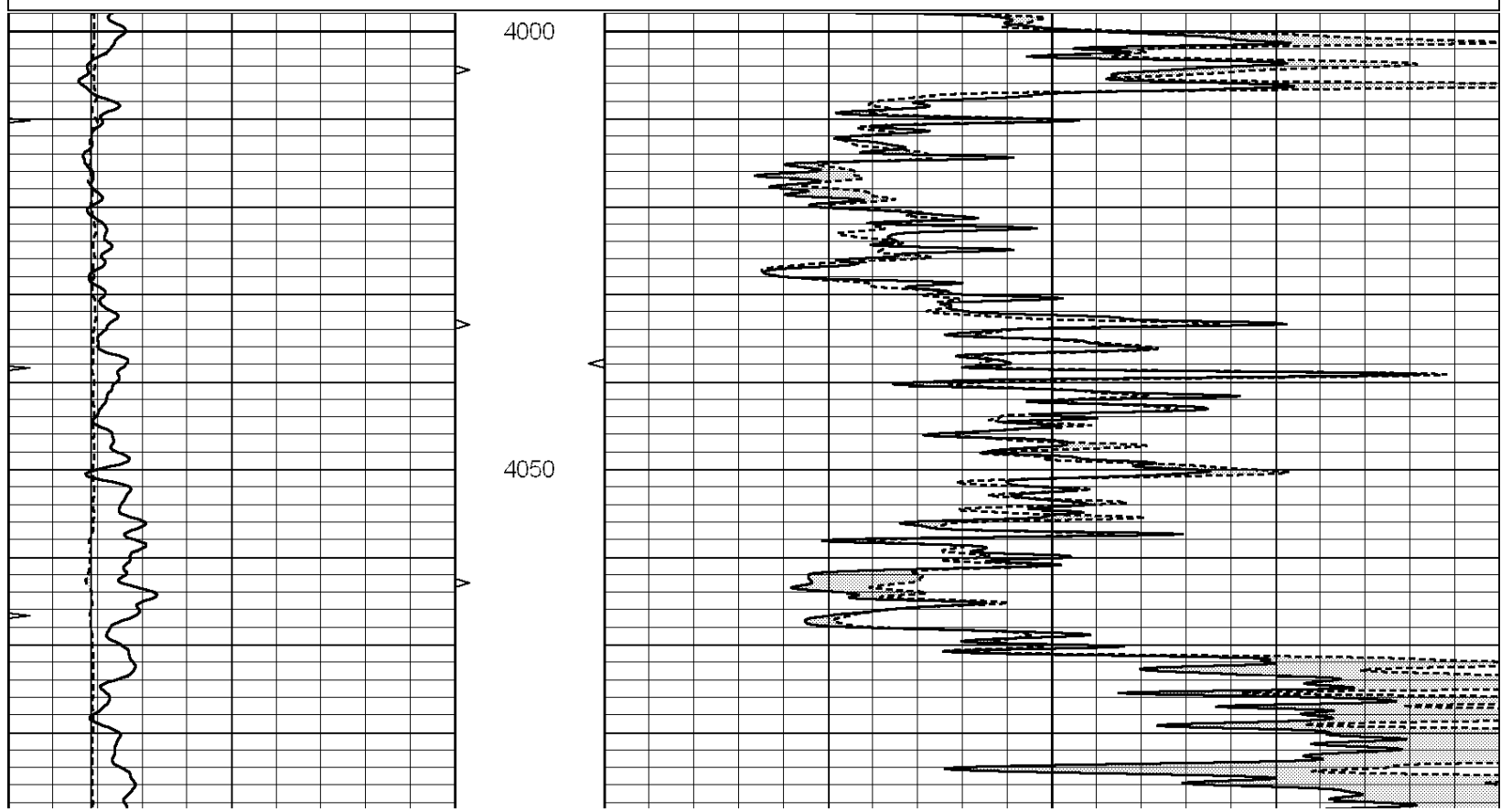


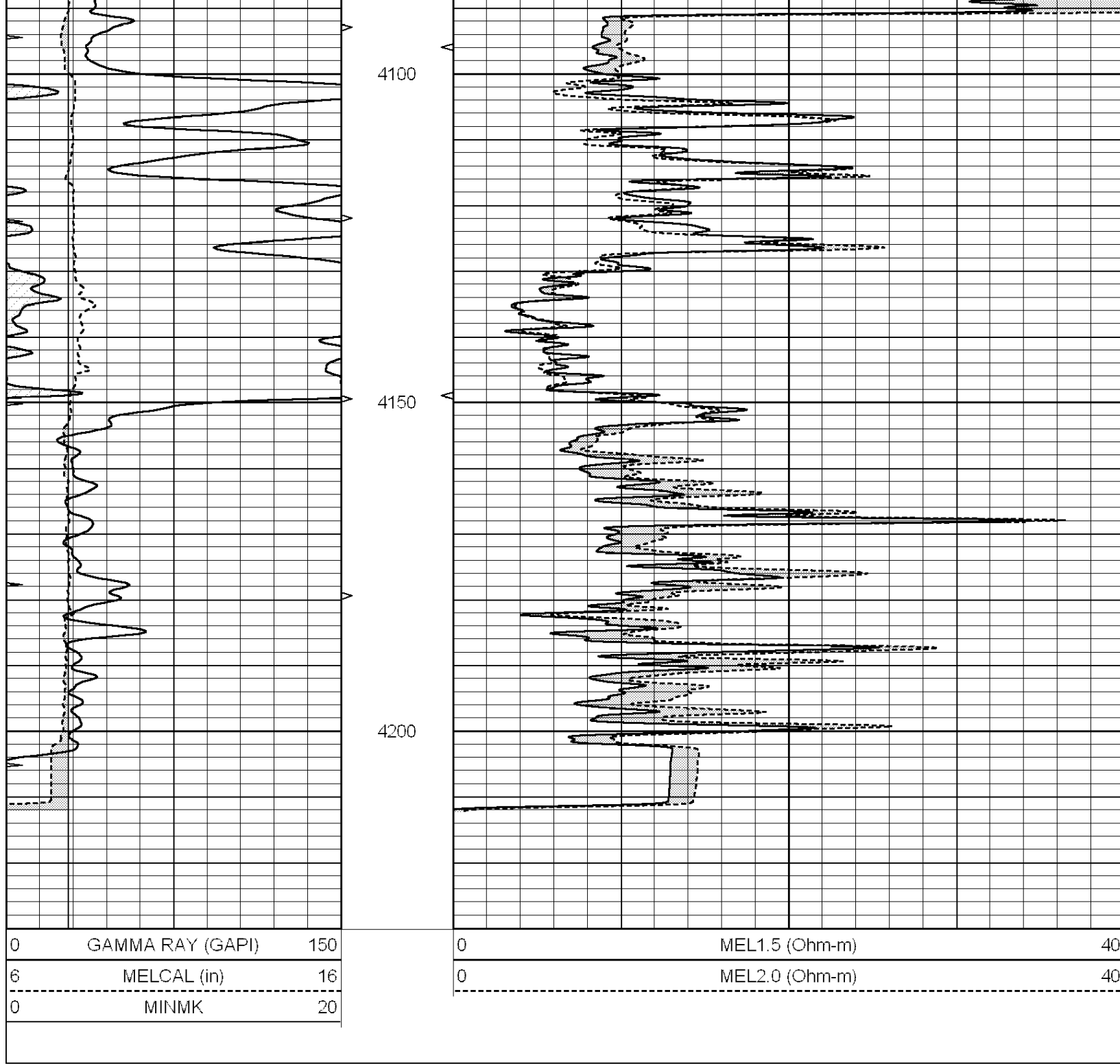
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 008793ddn.db
 Dataset Pathname: pass4
 Presentation Format: micro
 Dataset Creation: Tue Jun 19 13:21:00 2012 by Log Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0	MEL1.5 (Ohm-m)	40
6	MELCAL (in)	16	0	MEL2.0 (Ohm-m)	40
0	MINMK	20			





Calibration Report

Database File: 008793ddn.db
 Dataset Pathname: pass5.1
 Dataset Creation: Tue Jun 19 14:59:26 2012

MICRO Calibration Report

Serial Number: MICRO4
 Tool Model: PROBE
 Performed: Tue Jun 19 13:29:08 2012

Caliper Calibration: Gain=1.230 Offset=0.899

References	Low Cal	High Cal
Readings	7.600	11.000
	5.449	8.214

1.5" Calibration: Gain=45.000 Offset=-0.200

References	Low Cal	High Cal
Readings	0.000	20.000
	0.009	1.541

2" Calibration: Gain=38.000 Offset=0.600

References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	1.198

Gamma Ray Calibration Report

Serial Number: GR5
Tool Model: OPEN
Performed: Tue Jun 19 13:26:49 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6900 GAPI/cps



**SUPERIOR
Hays,
Kansas**

**DUAL
INDUCTION
LOG**

Company CAERUS KANSAS, LLC.
Well HARRISON #36-23
Field CLINE SOUTH
County STAFFORD State KANSAS

Company CAERUS KANSAS, LLC.
Well HARRISON #36-23
Field CLINE SOUTH
County STAFFORD
State KANSAS

Location: API #: 15-185-23756
2310' FSL & 2310' FWL
SEC 36 TWP 24S RGE 13W
Permanent Datum GROUND LEVEL Elevation 1909
Log Measured From KELLY BUSHING 15' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
SONIC/MEL
Elevation
K.B. 1924
D.F.
G.L. 1909

Date	6-19-12
Run Number	ONE
Depth Driller	4225
Depth Logger	4220
Bottom Logged Interval	4218
Top Log Interval	00
Casing Driller	764
Casing Logger	764
Bit Size	7.875
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2 / 52
pH / Fluid Loss	10.5 / 10.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.70 @ 84F
Rmf @ Meas. Temp	0.53 @ 84F
Rmc @ Meas. Temp	0.84 @ 84F
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.500 @ 117F
Time Circulation Stopped	3 HOURS
Time Logger on Bottom	10:45 A.M.
Maximum Recorded Temperature	117F
Equipment Number	860
Location	HAYS, KS.
Recorded By	RUPP
Witnessed By	ROGER FISHER

<<< 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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: ST. JOHN, S TO JCT. OF #281 & #50, 3E TO 30TH ST., 3S, 1/2W, N INTO.



SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 008793ddn.db
 Dataset Pathname: pass3.A
 Presentation Format: dil2
 Dataset Creation: Tue Jun 19 12:38:56 2012
 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

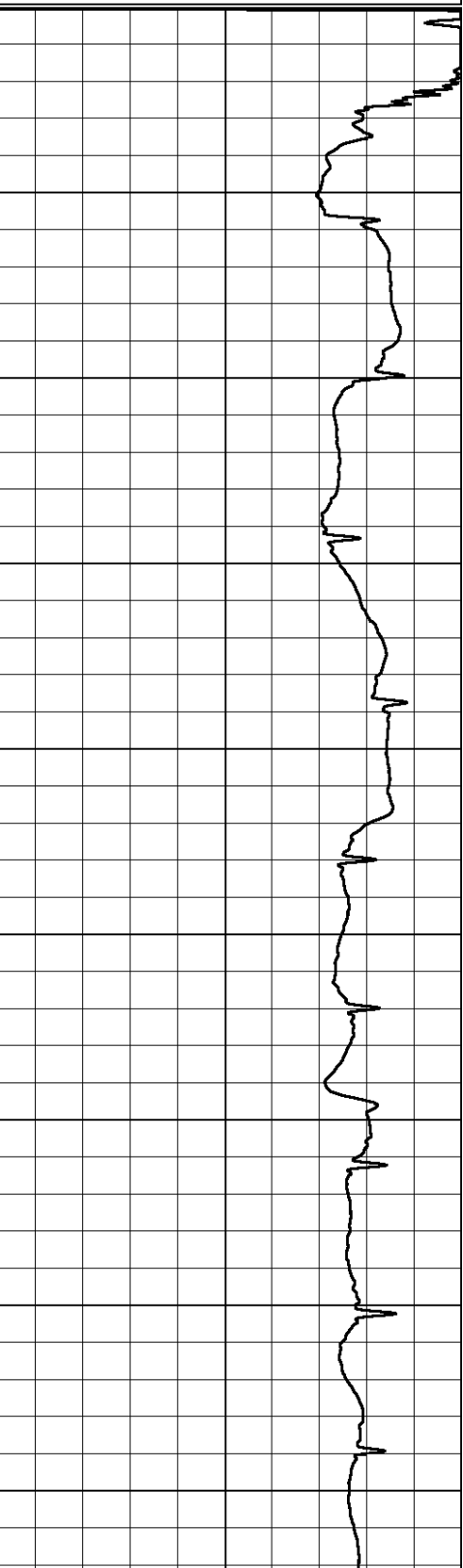
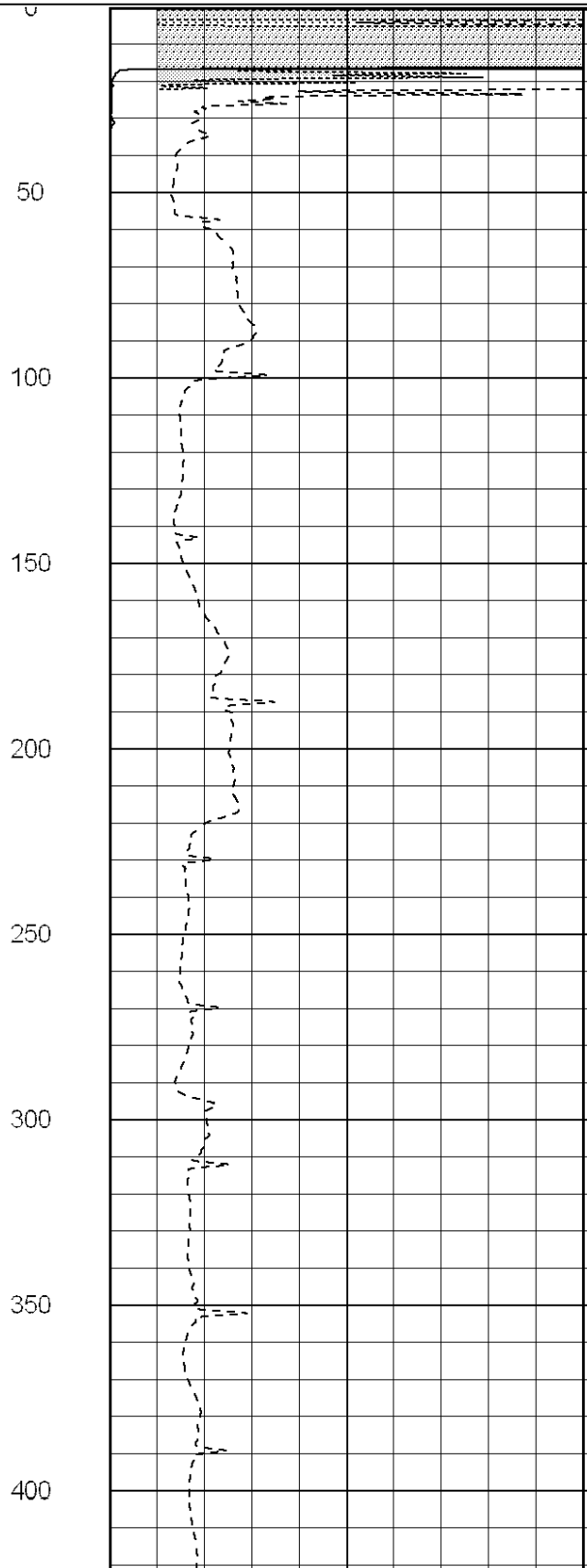
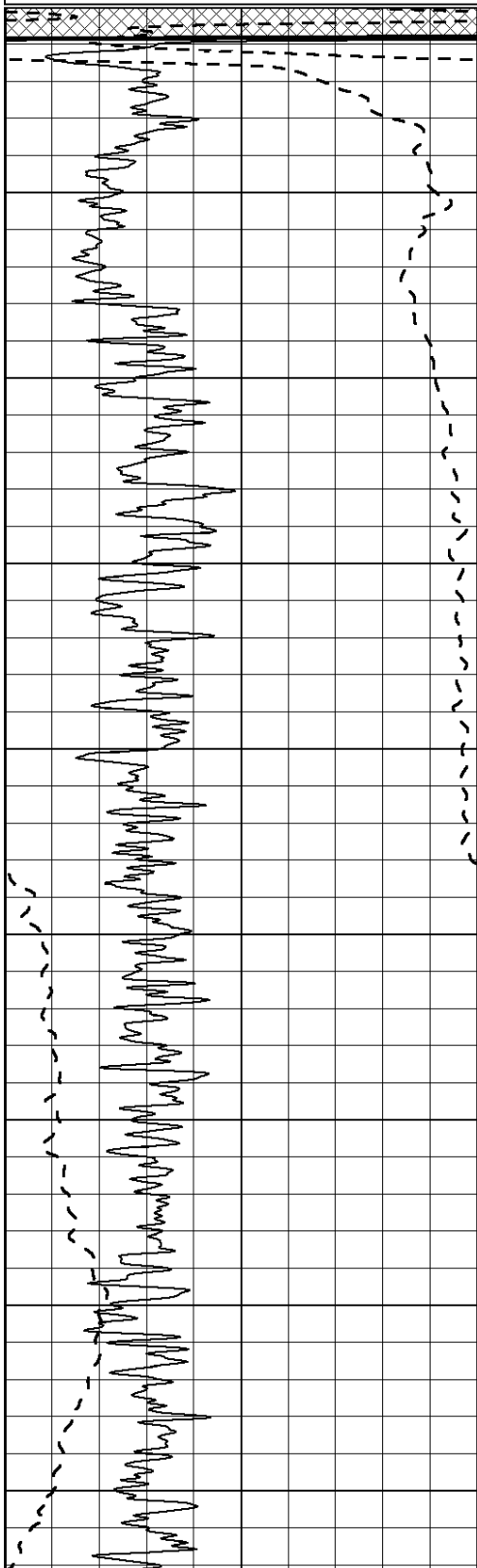
0 RLL3 (Ohm-m) 50

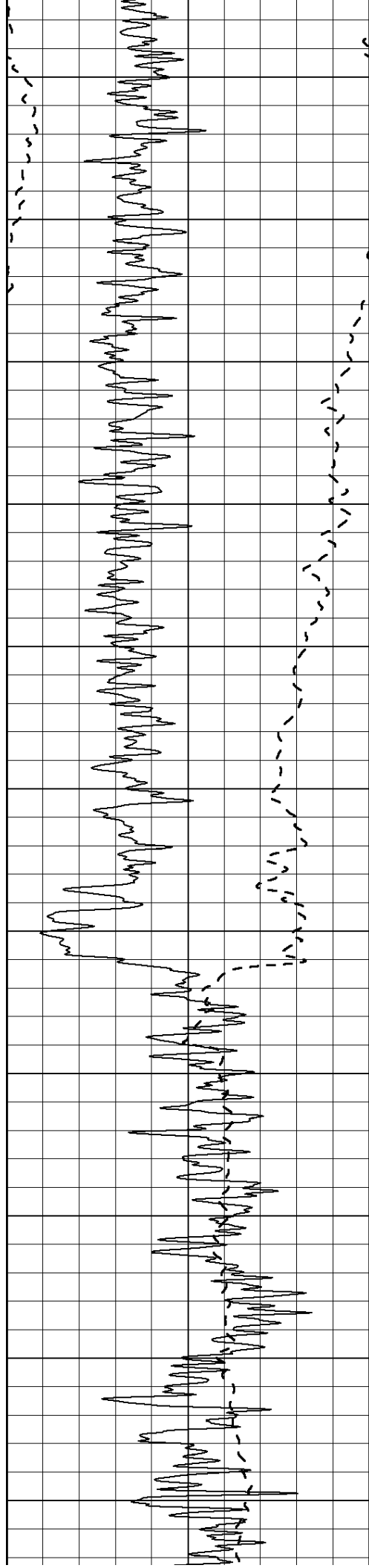
0 Deep Induction (Ohm-m) 50

1000 CILD (mmho/m) 0

50 RILD X10 (Ohm-m) 500

50 RLL3 X10 (Ohm-m) 500





450

500

550

600

650

700

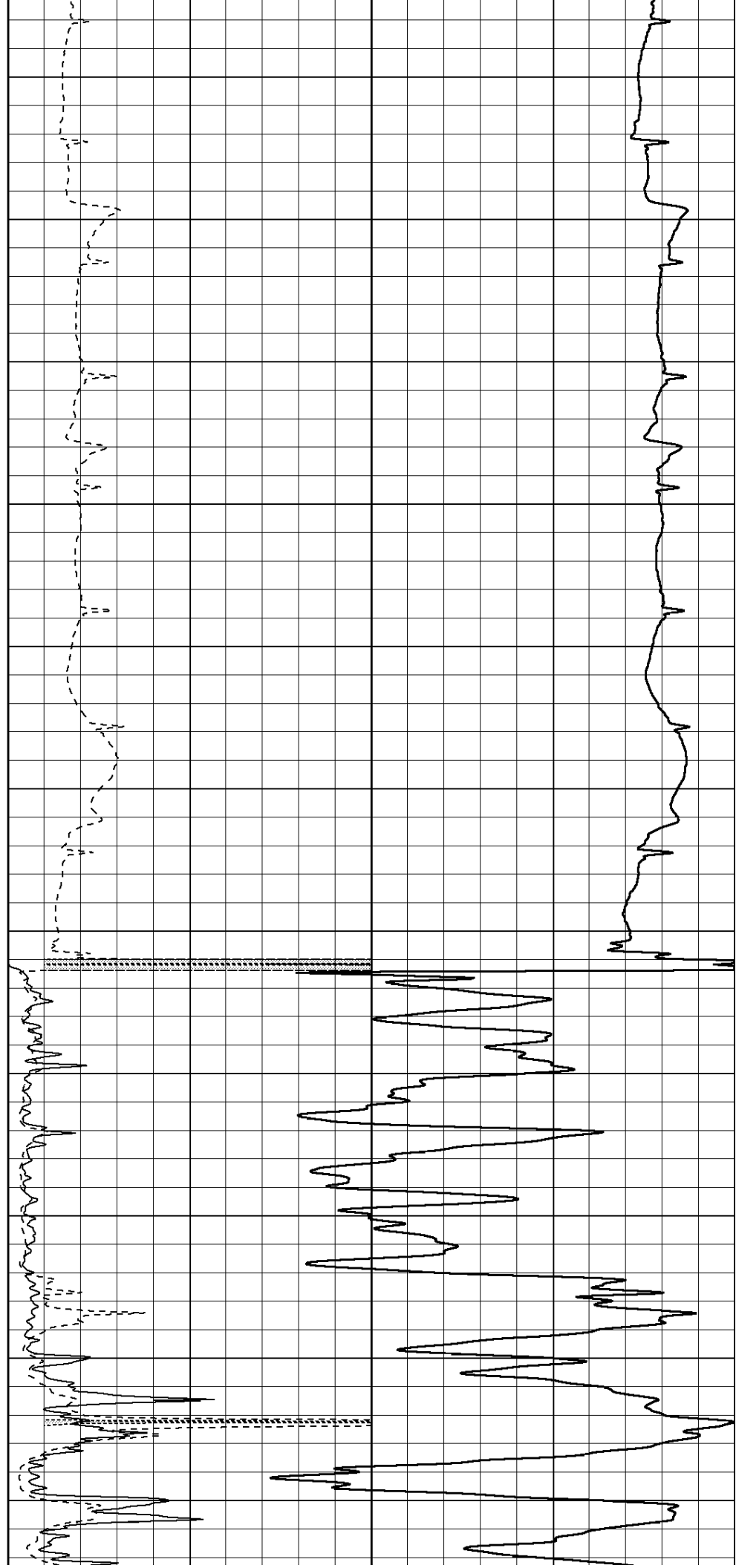
750

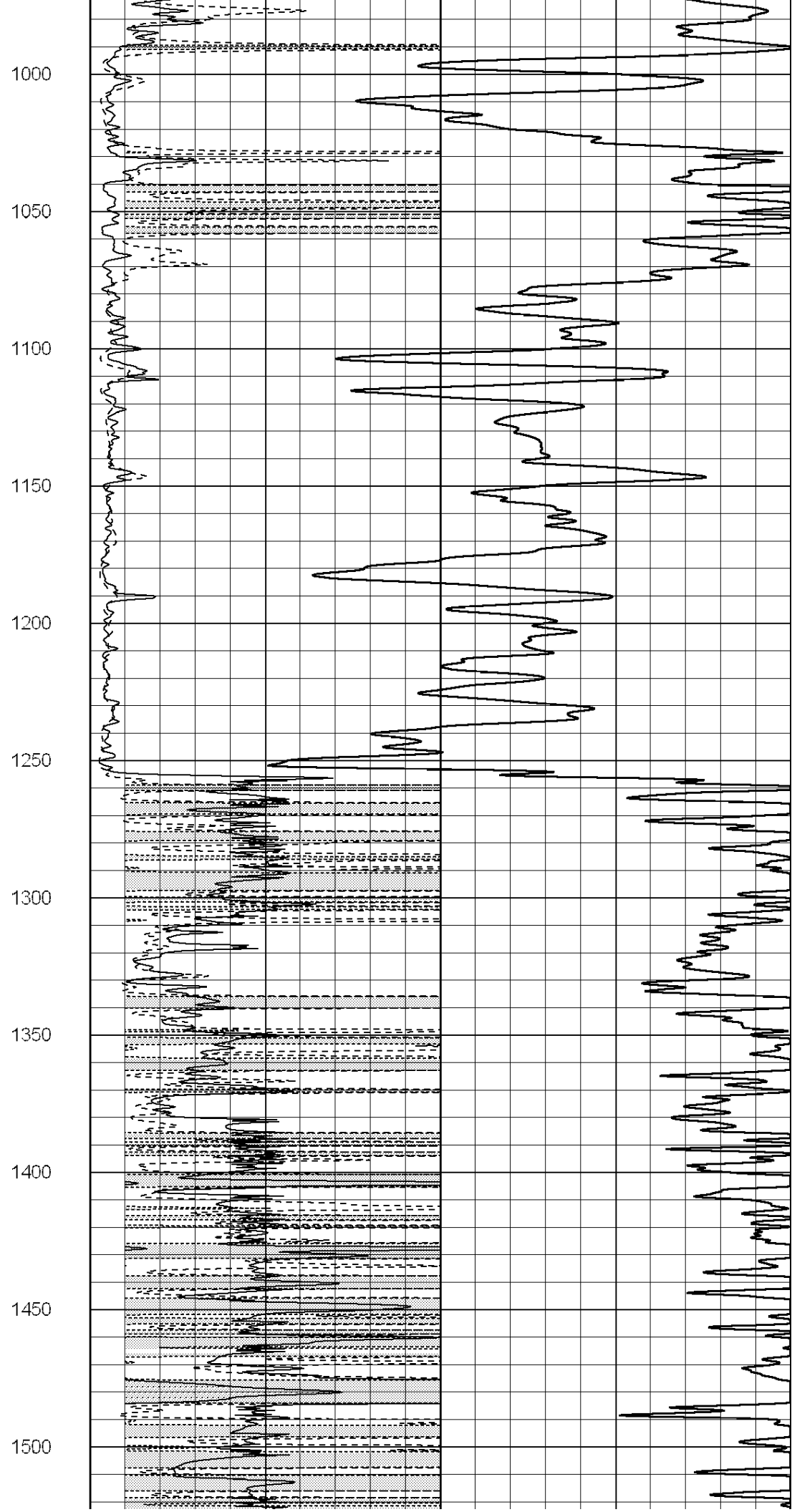
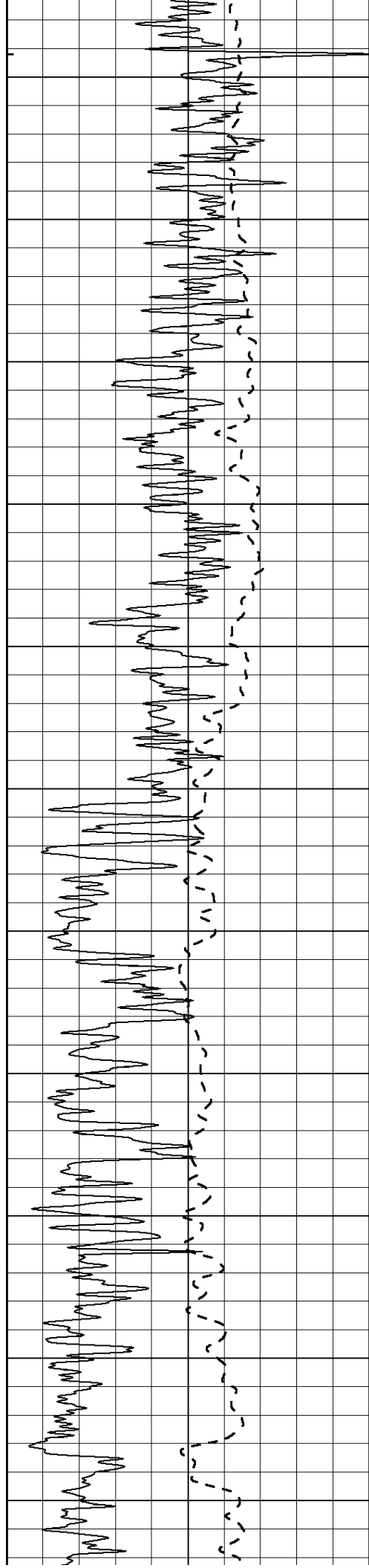
800

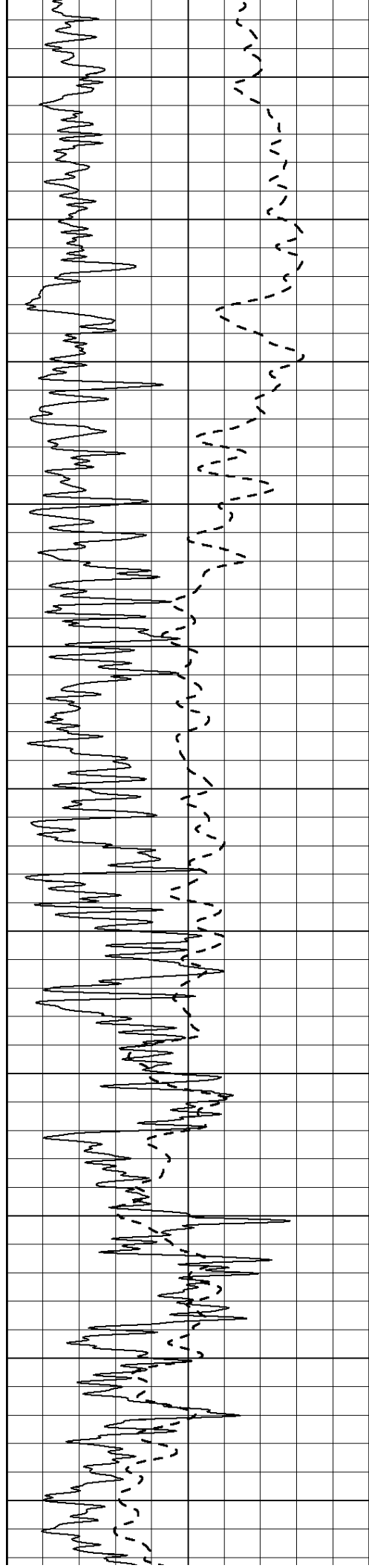
850

900

950







1550

1600

1650

1700

1750

1800

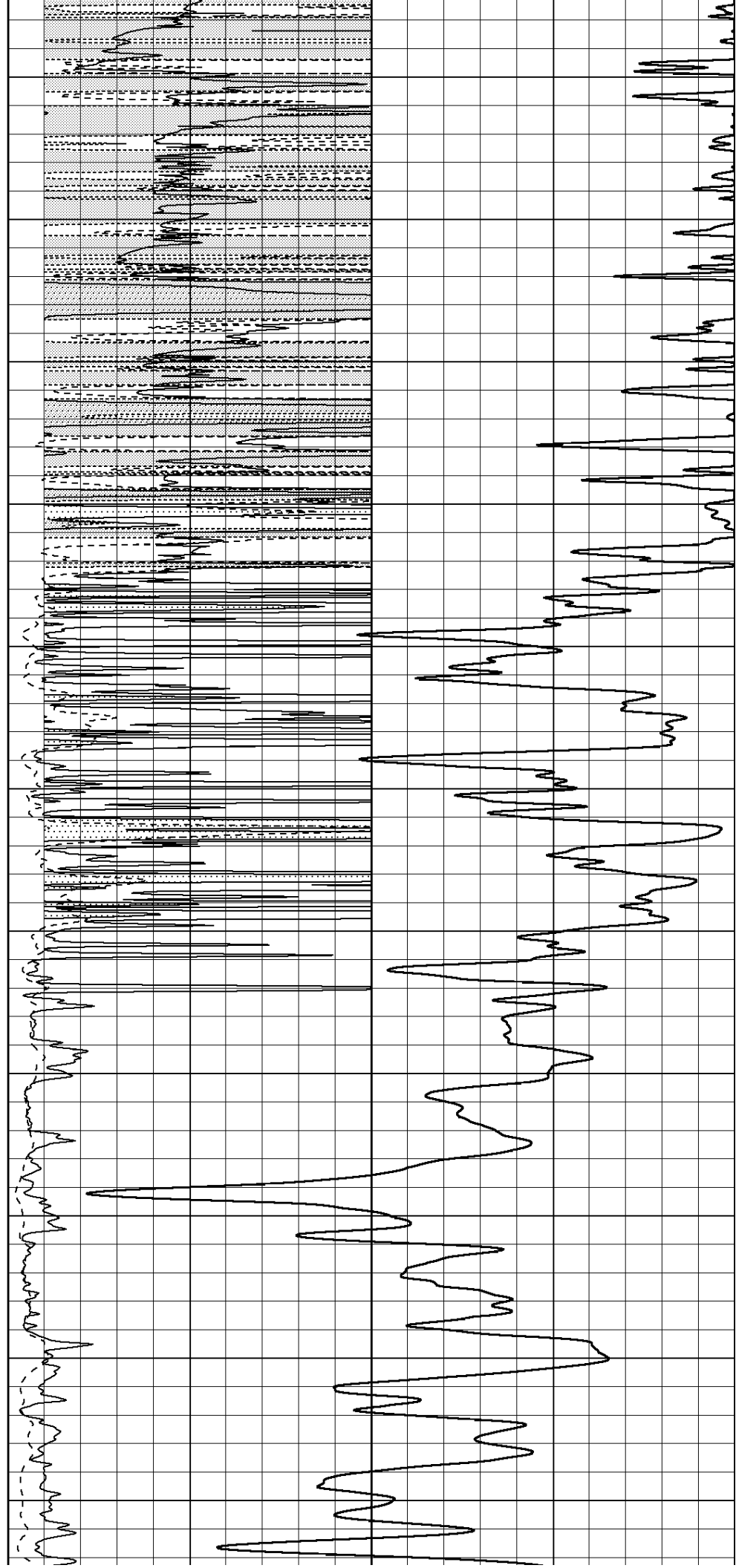
1850

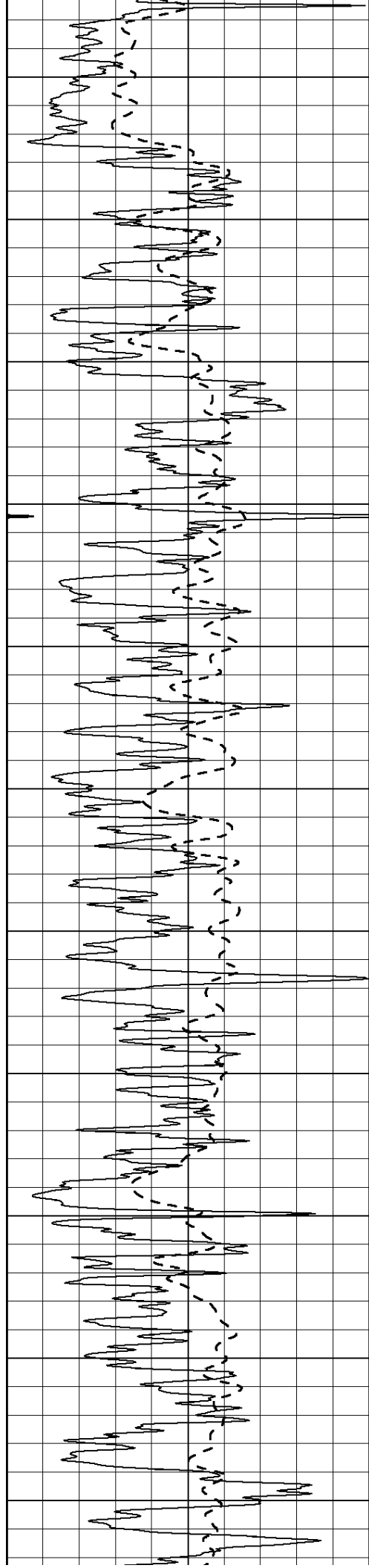
1900

1950

2000

2050





2100

2150

2200

2250

2300

2350

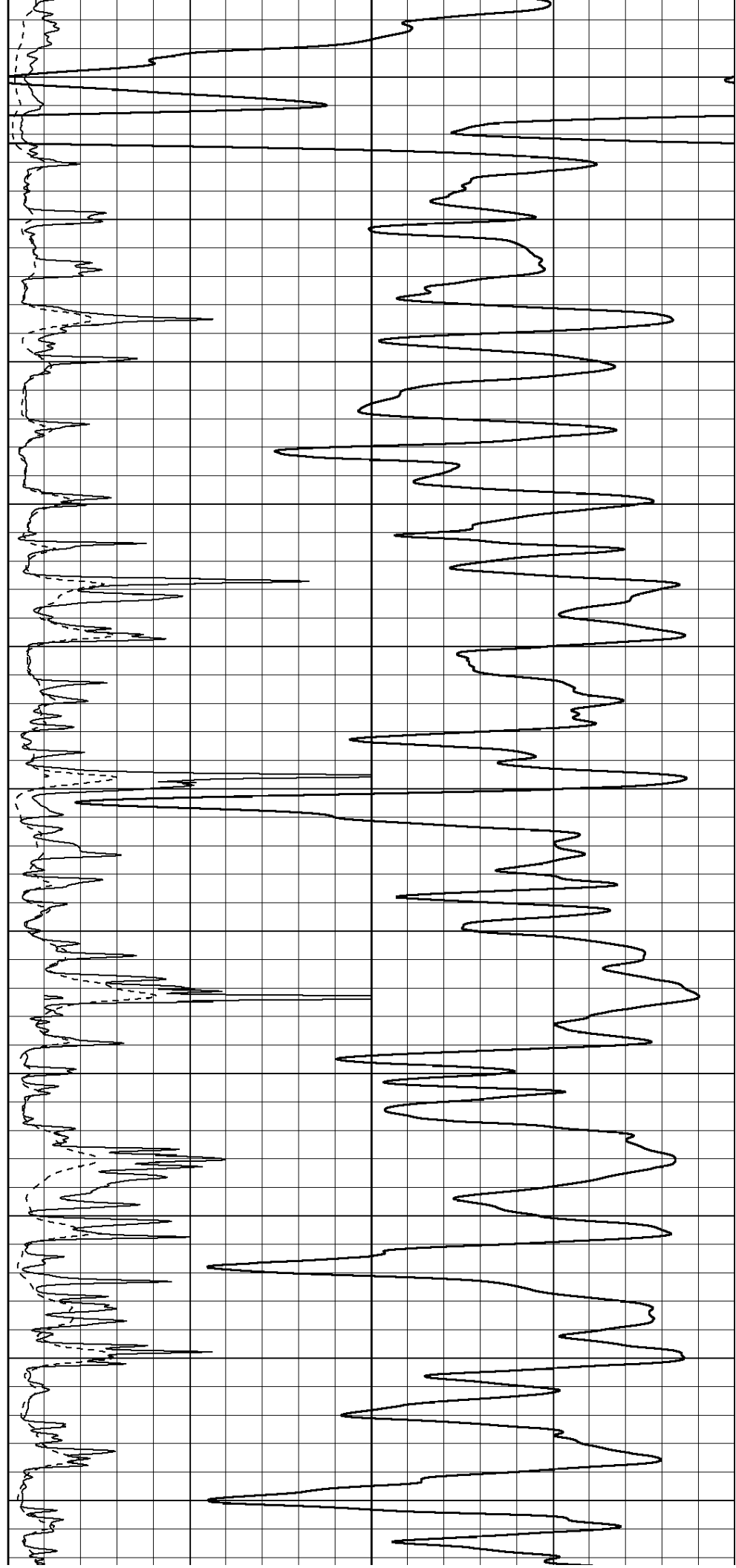
2400

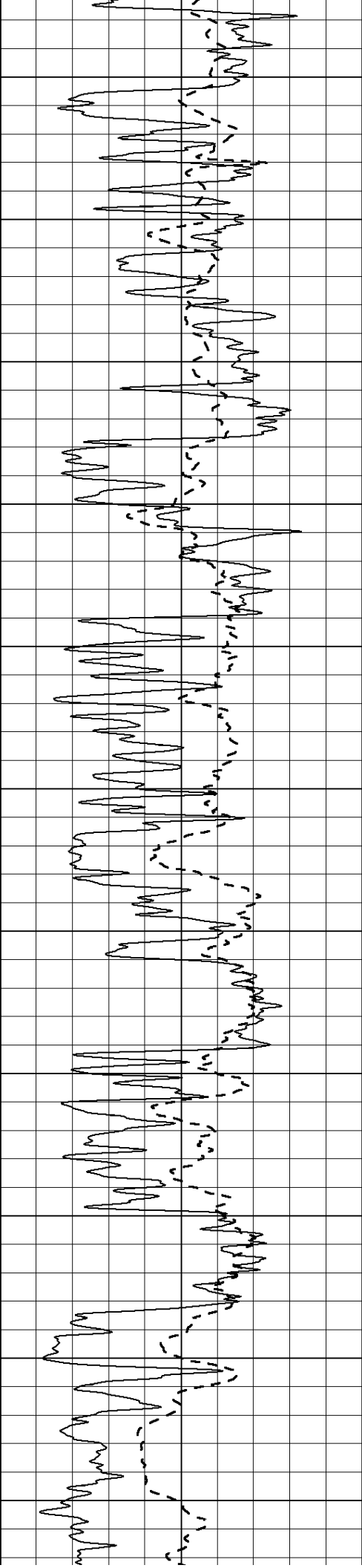
2450

2500

2550

2600





2650

2700

2750

2800

2850

2900

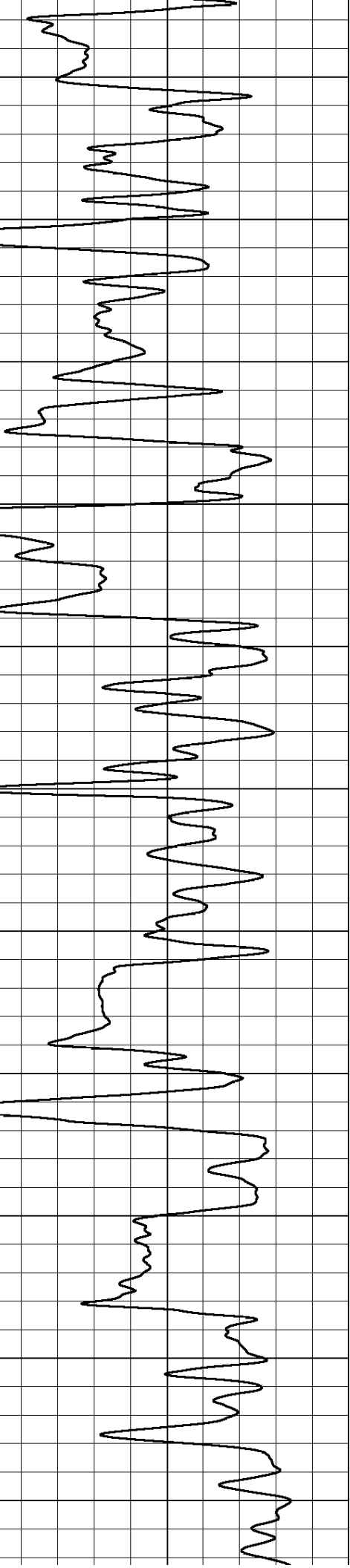
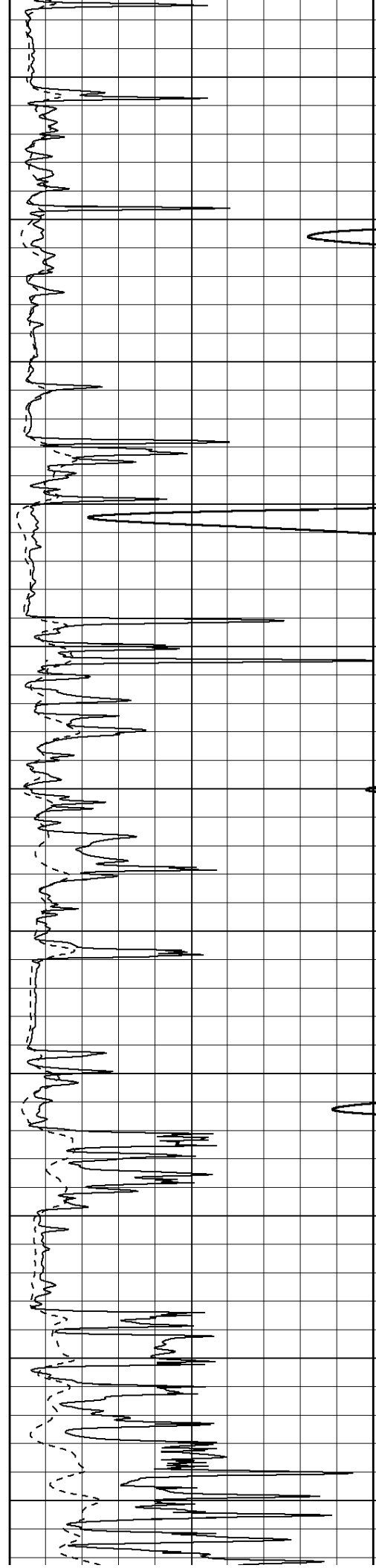
2950

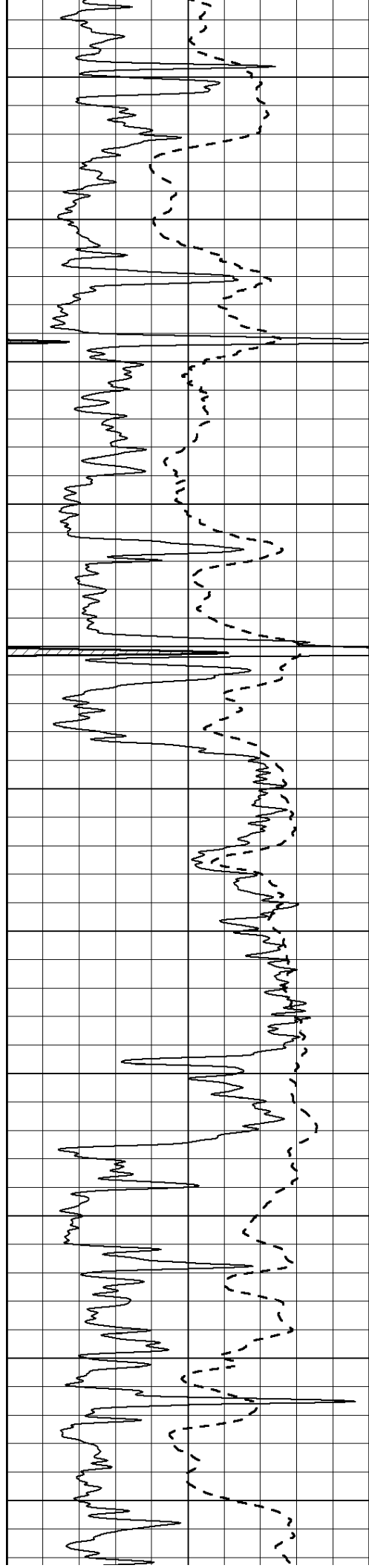
3000

3050

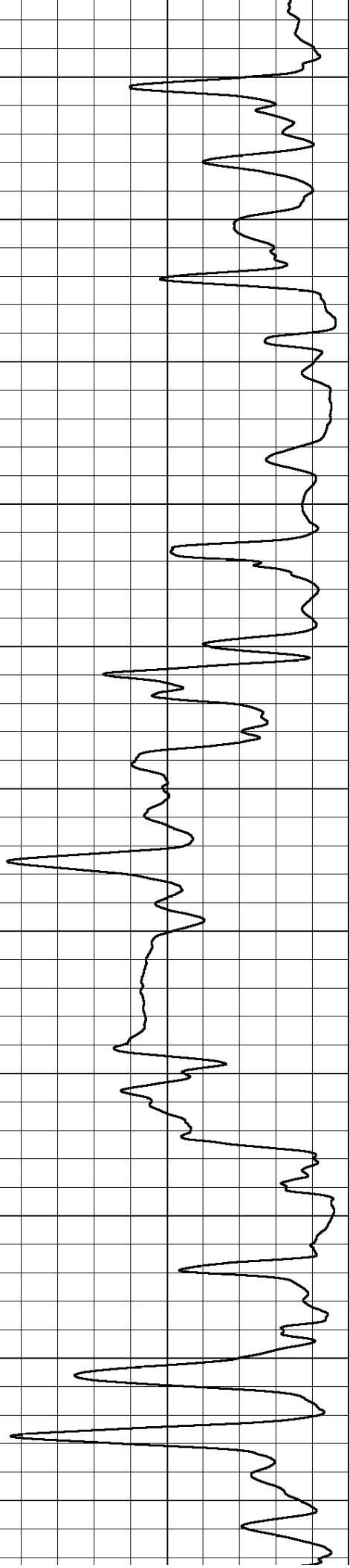
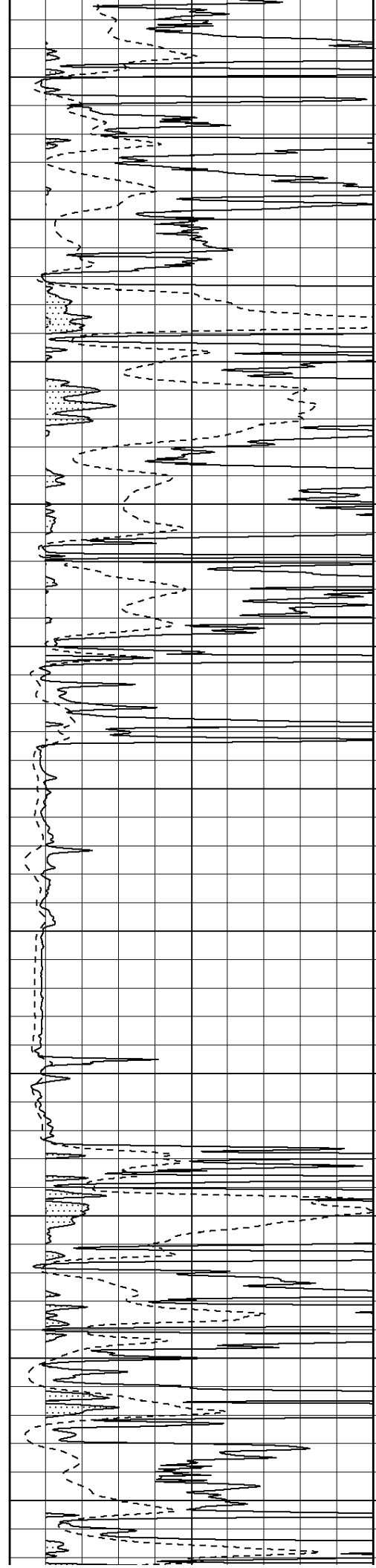
3100

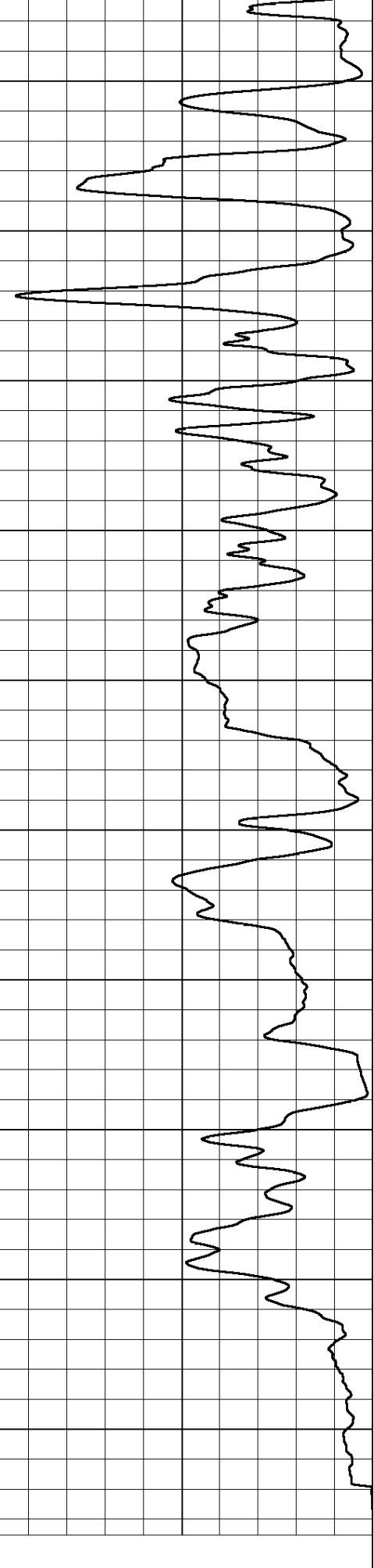
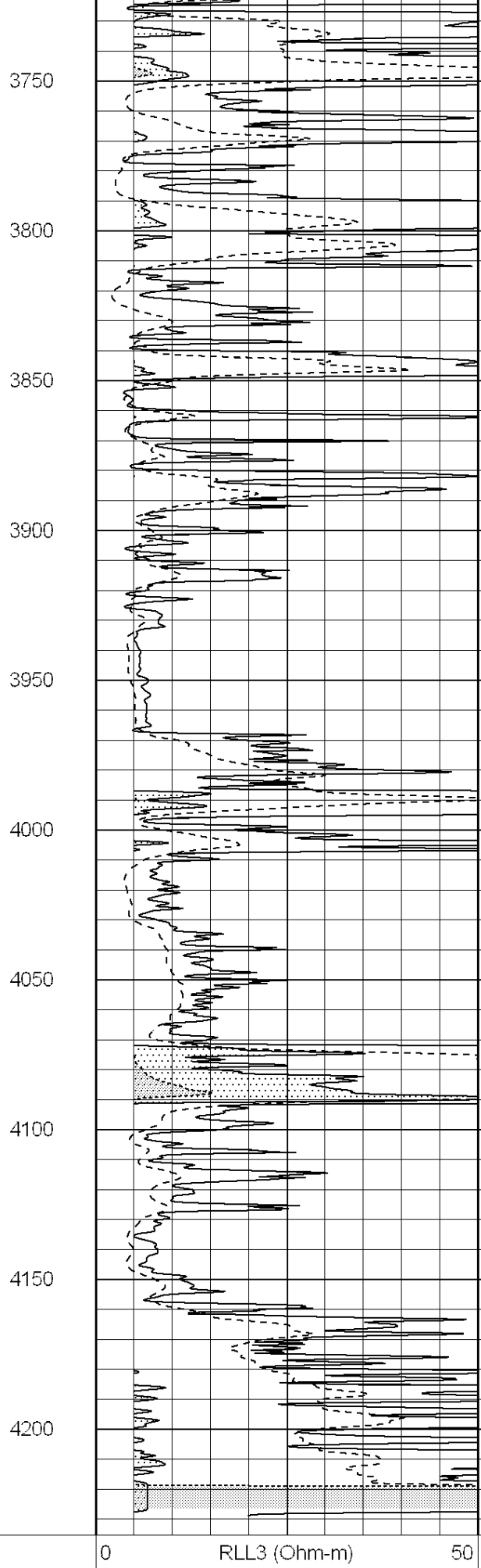
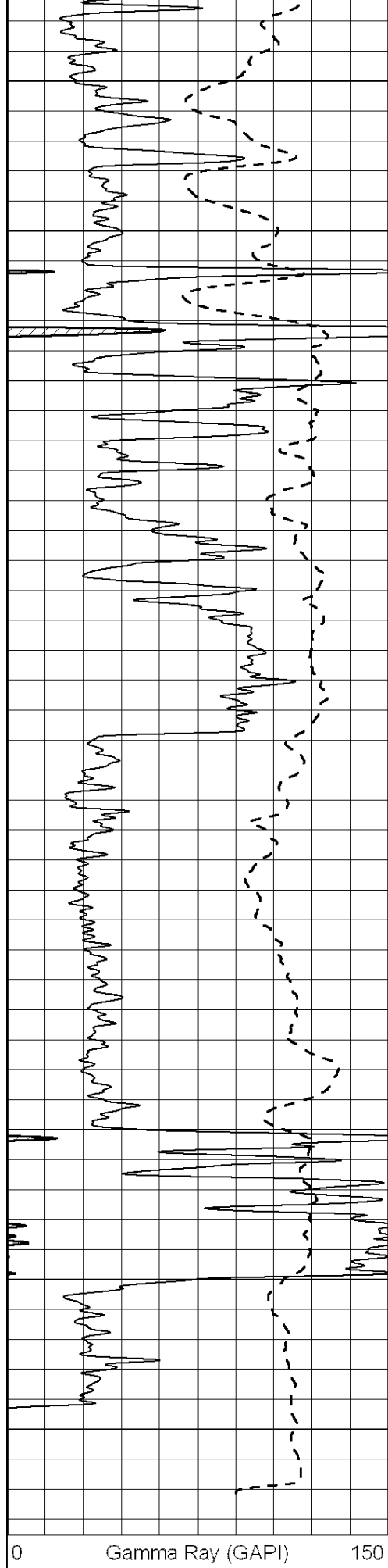
3150





3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700





0 Gamma Ray (GAPI) 150

0 RLL3 (Ohm-m) 50

0 Deep Induction (Ohm-m) 50

1000 CILD (mmho/m) 0

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



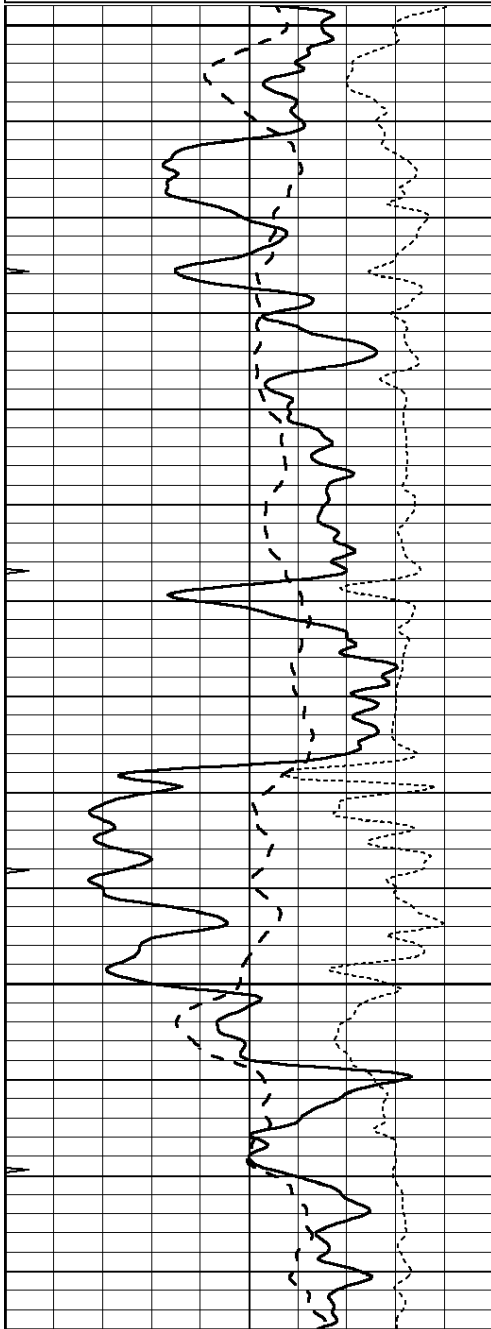
SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 008793ddn.db
 Dataset Pathname: pass3.A
 Presentation Format: dil
 Dataset Creation: Tue Jun 19 12:38:56 2012
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

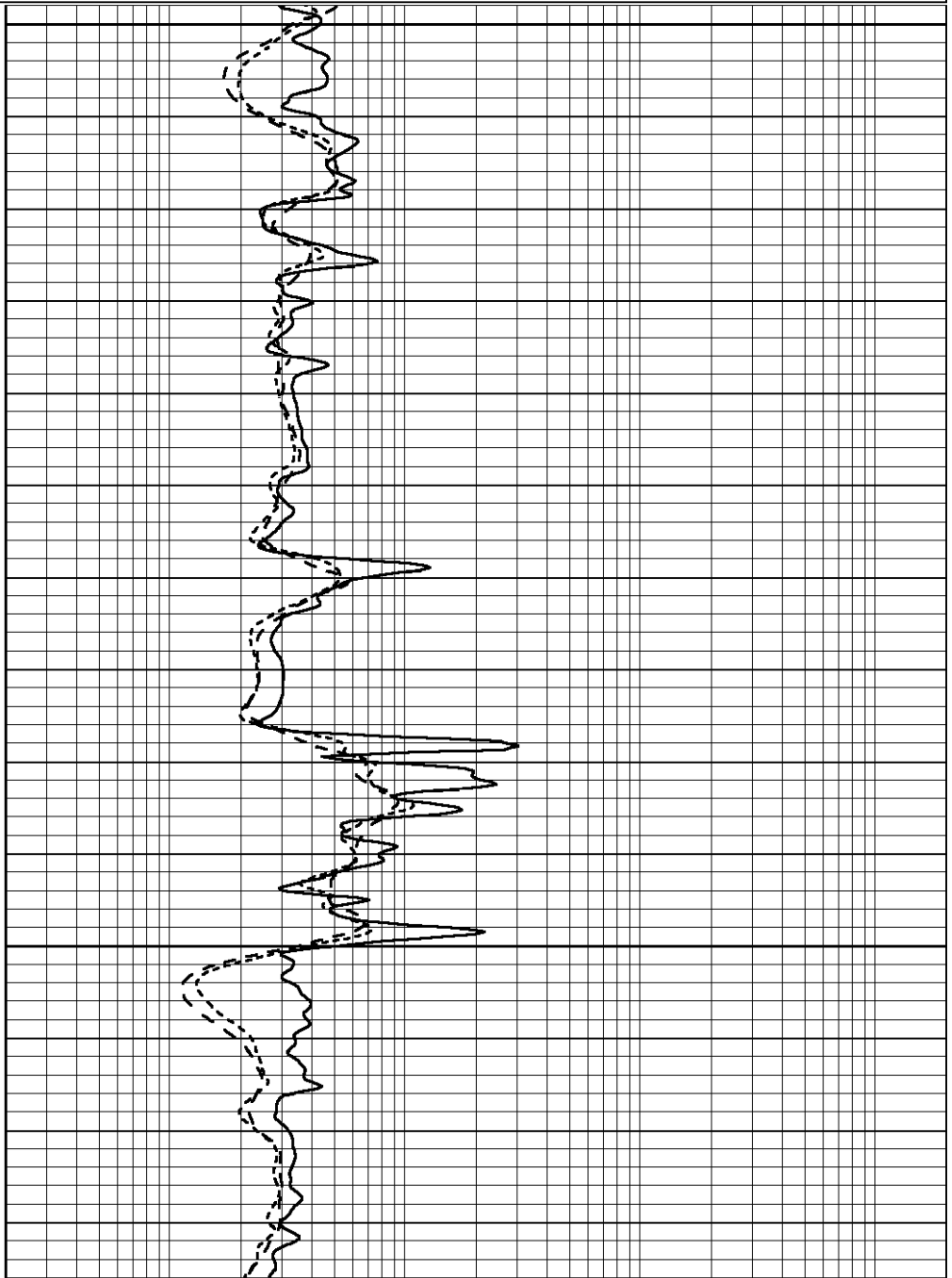
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

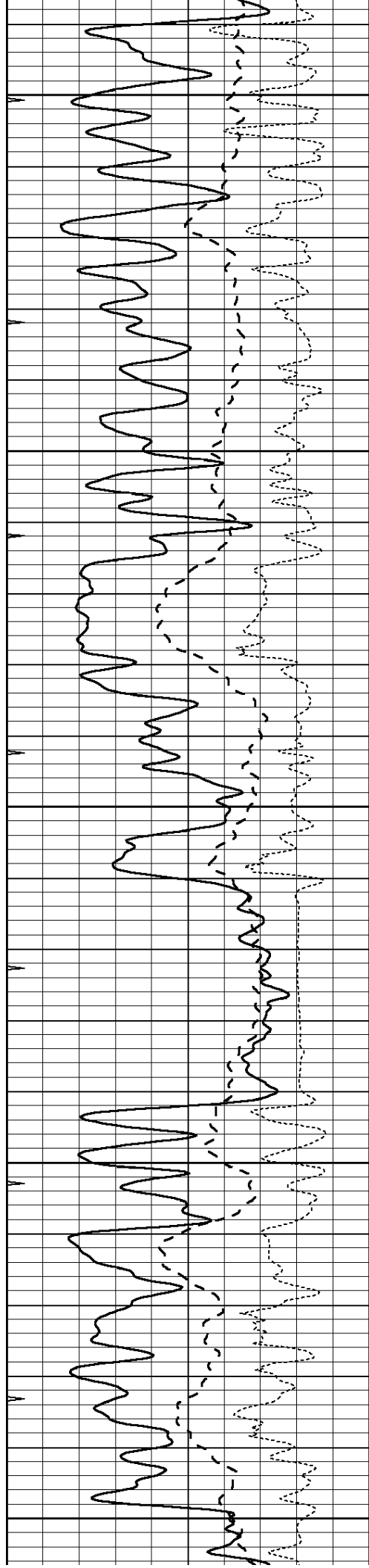


2700

2750

2800





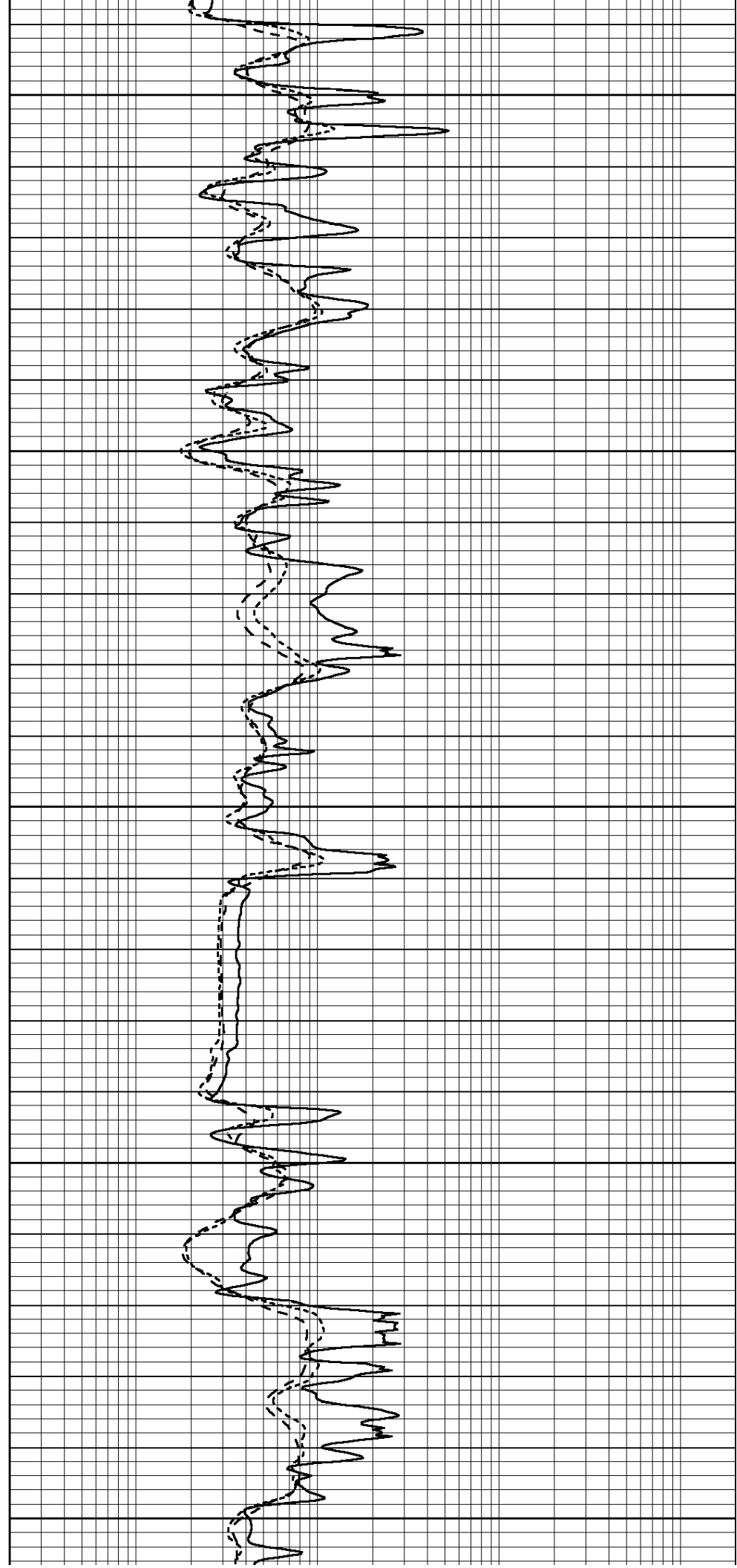
2850

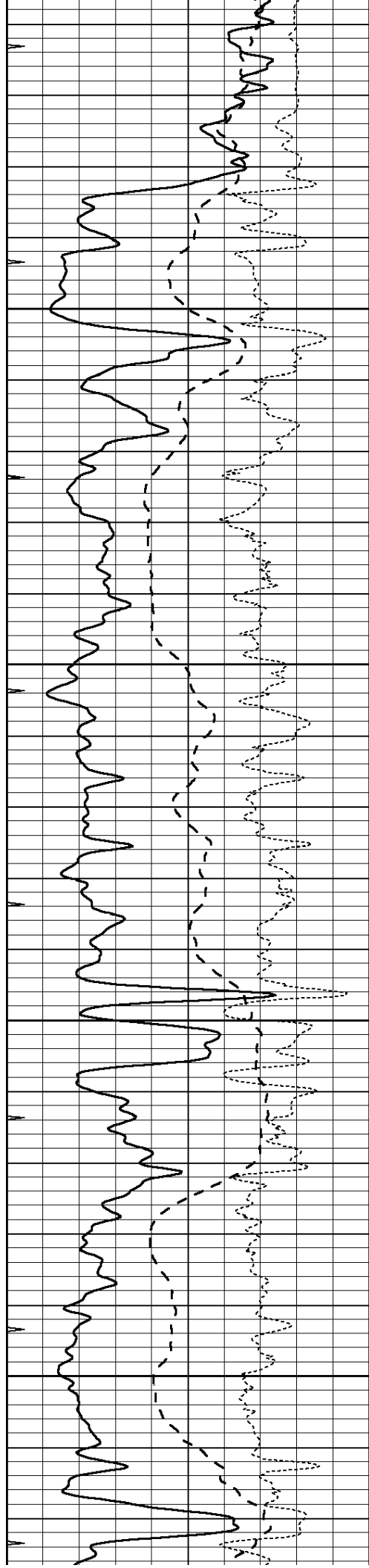
2900

2950

3000

3050



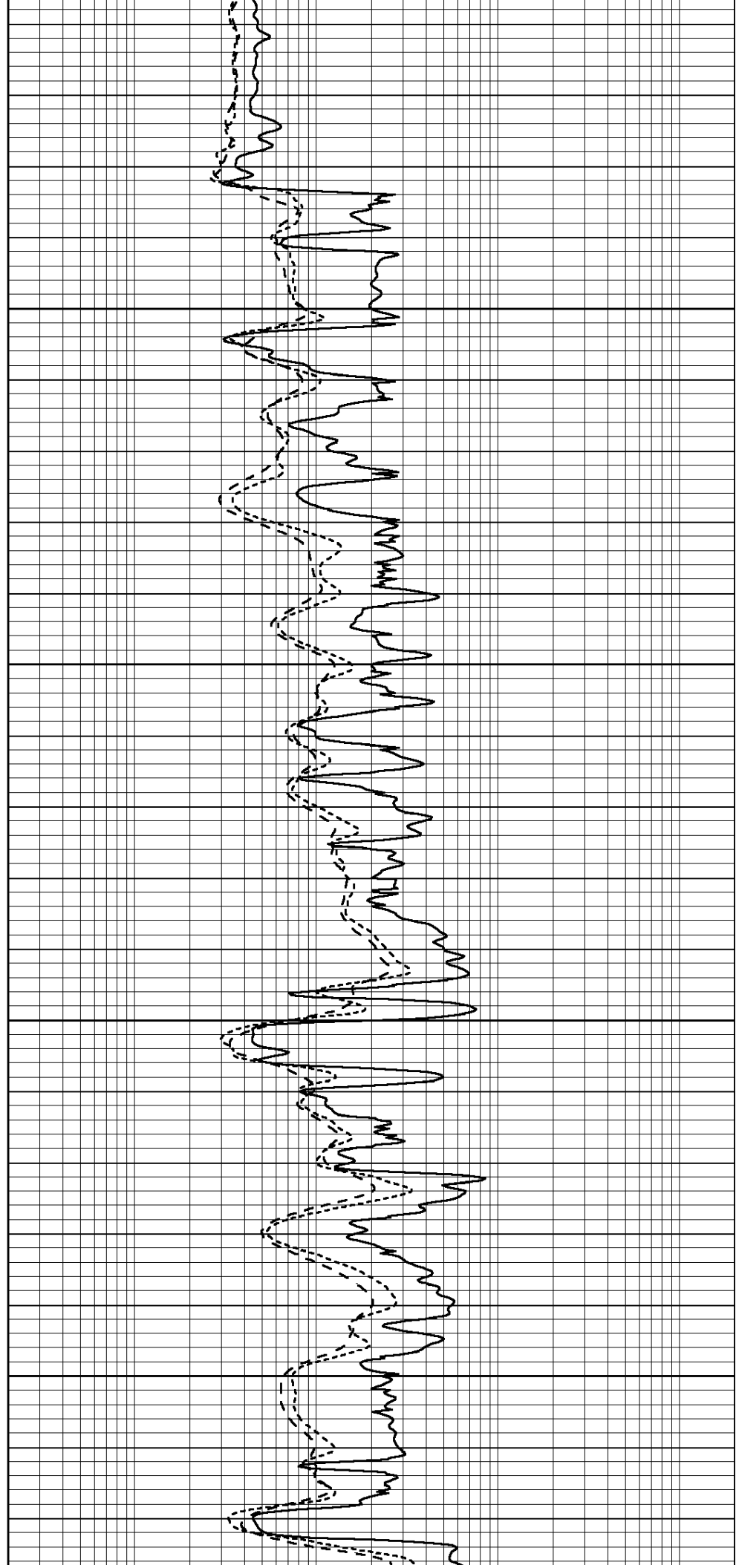


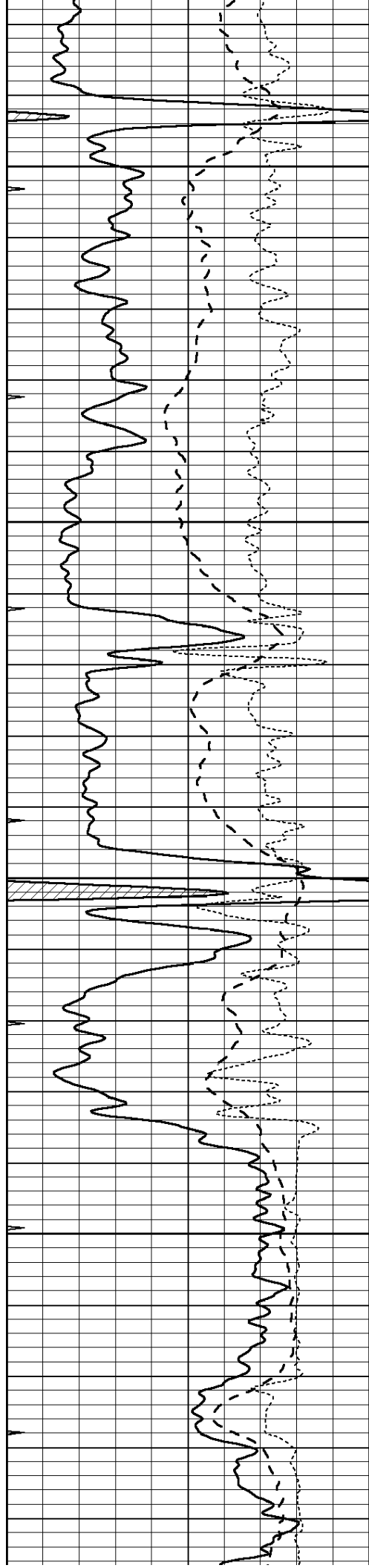
3100

3150

3200

3250



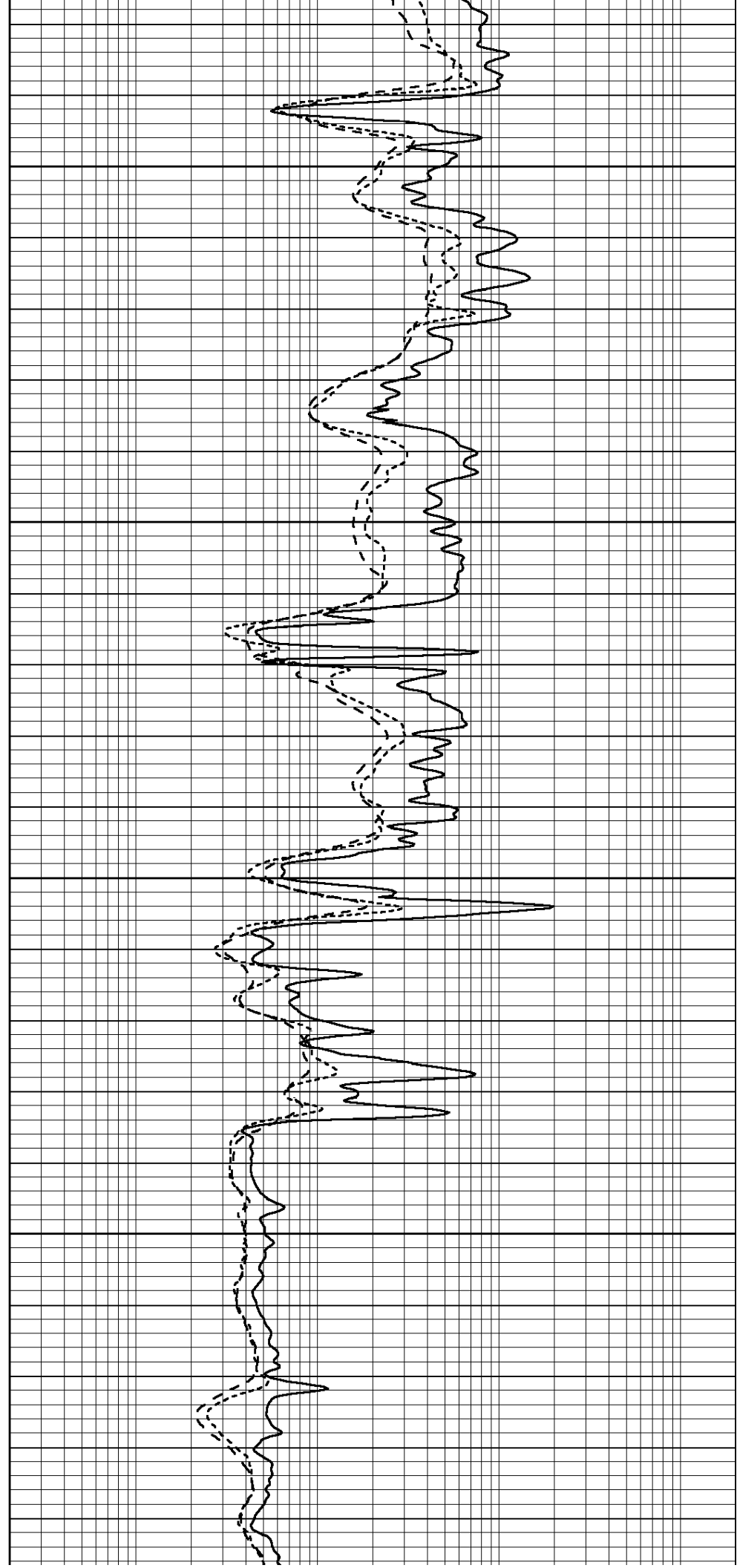


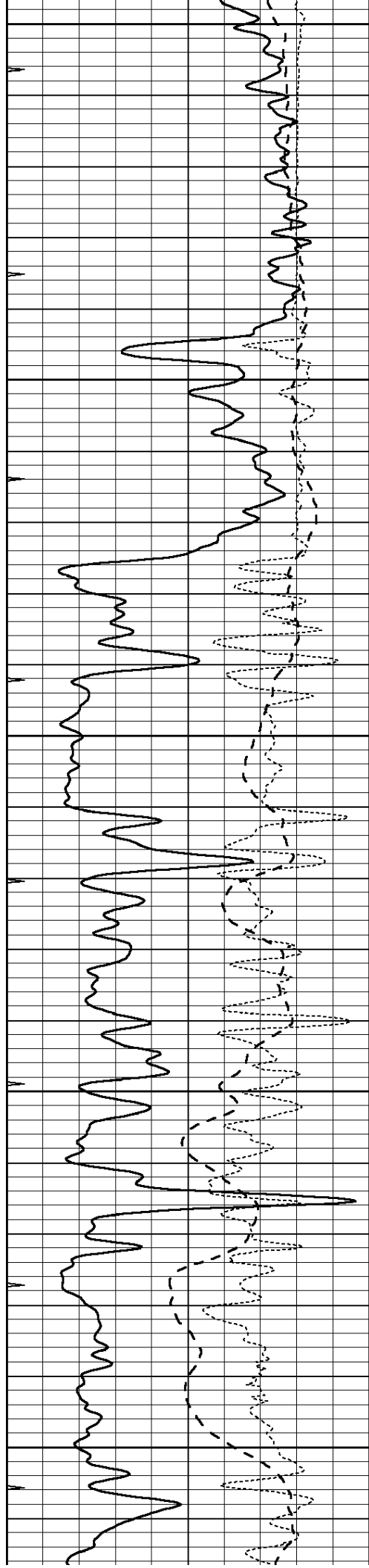
3300

3350

3400

3450





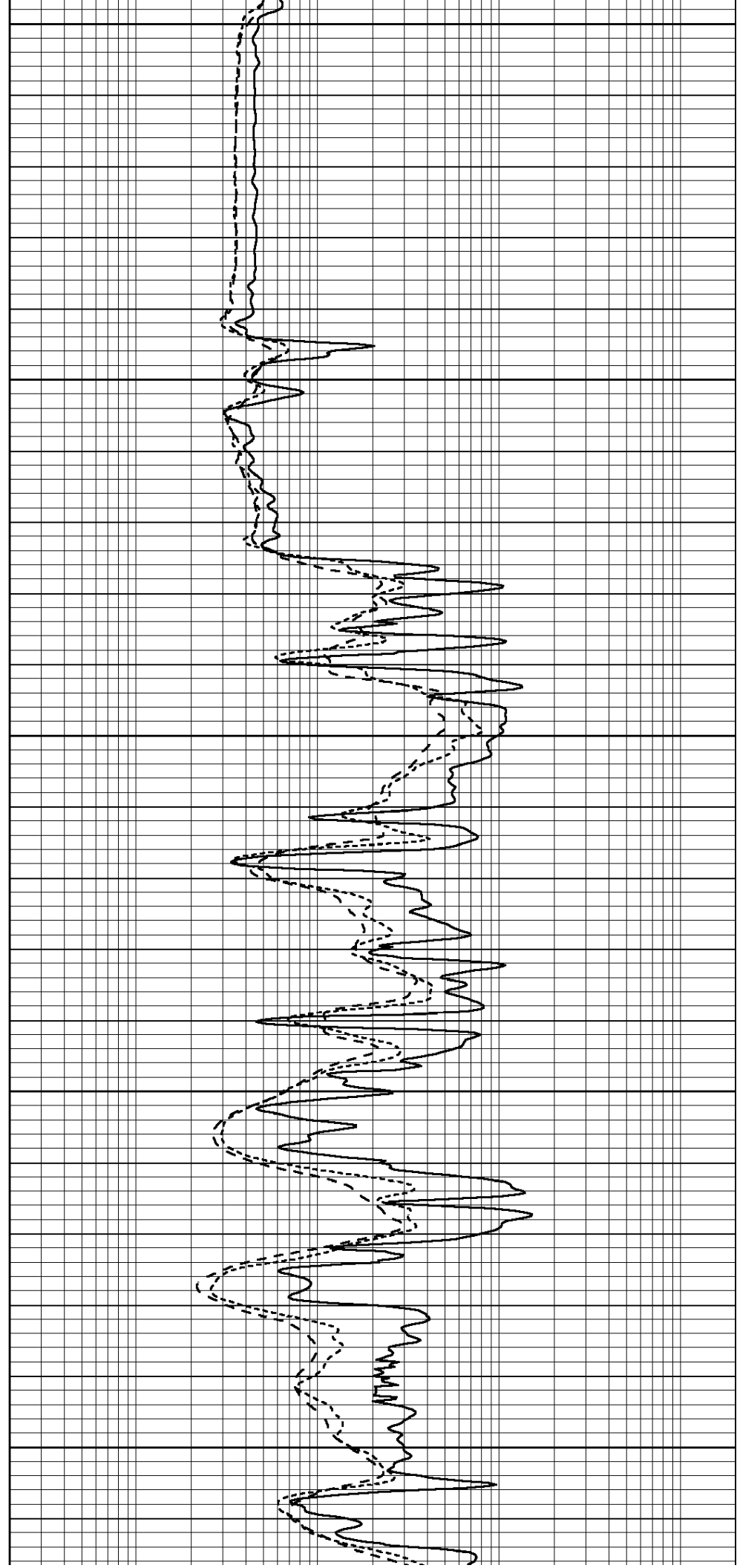
3500

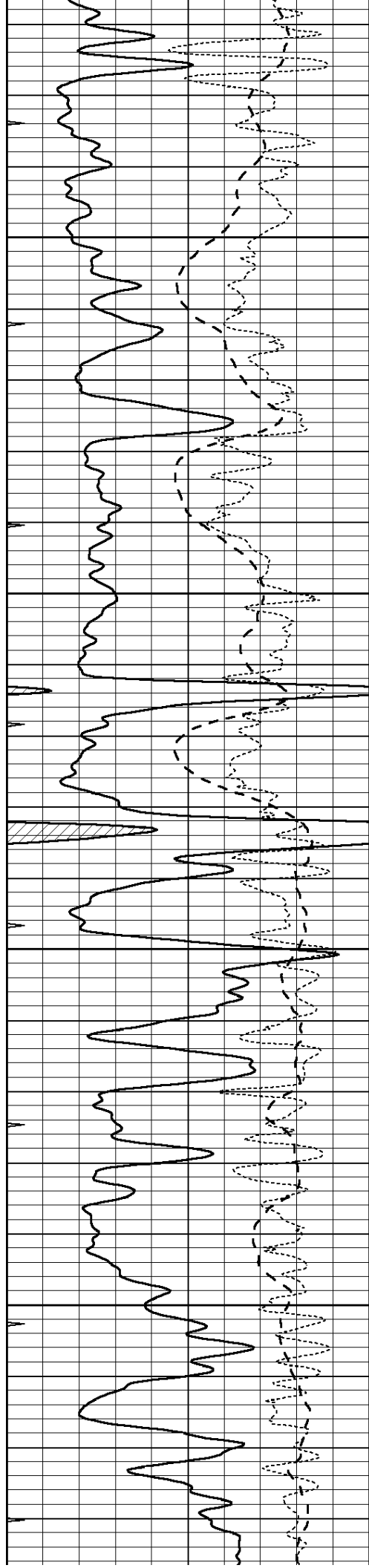
3550

3600

3650

3700



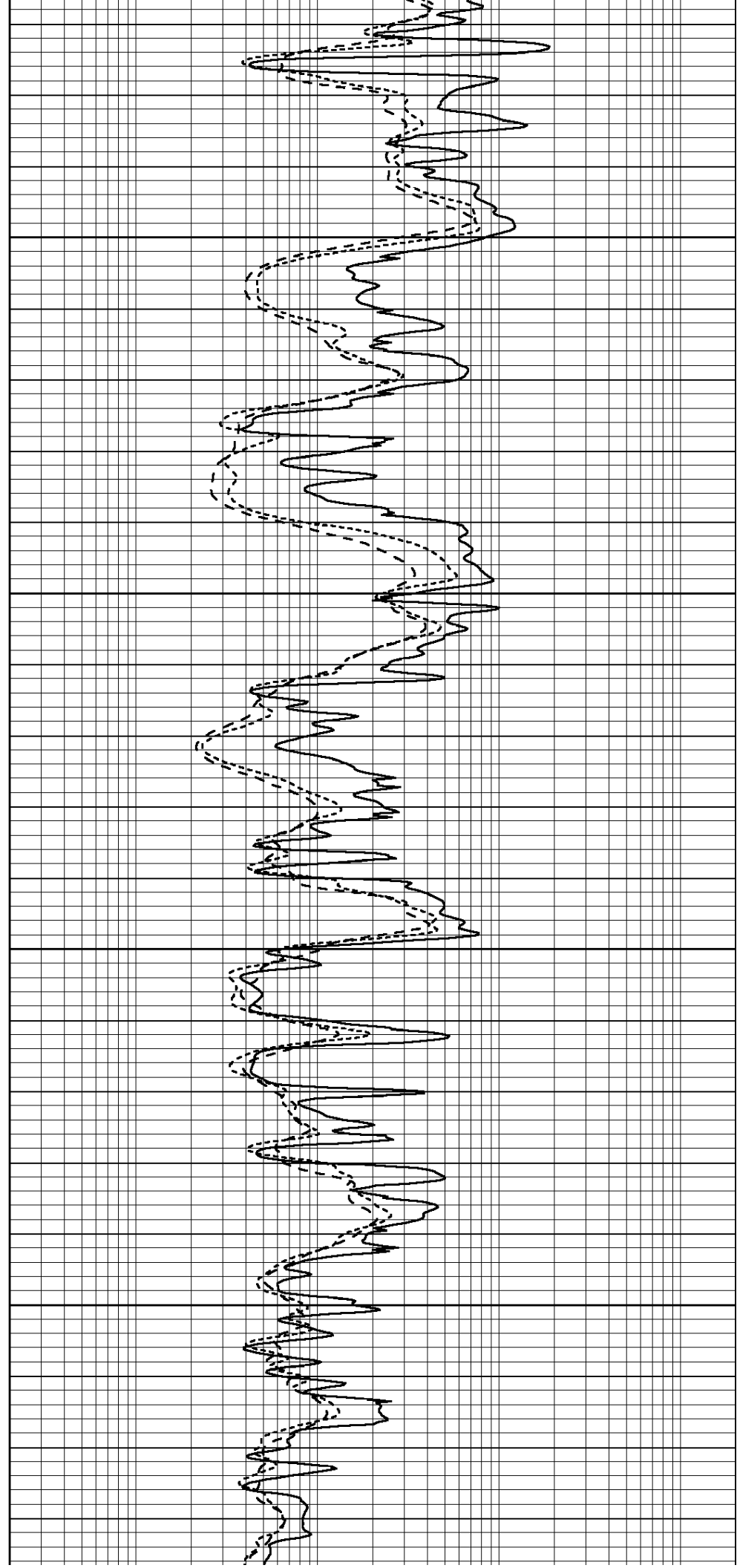


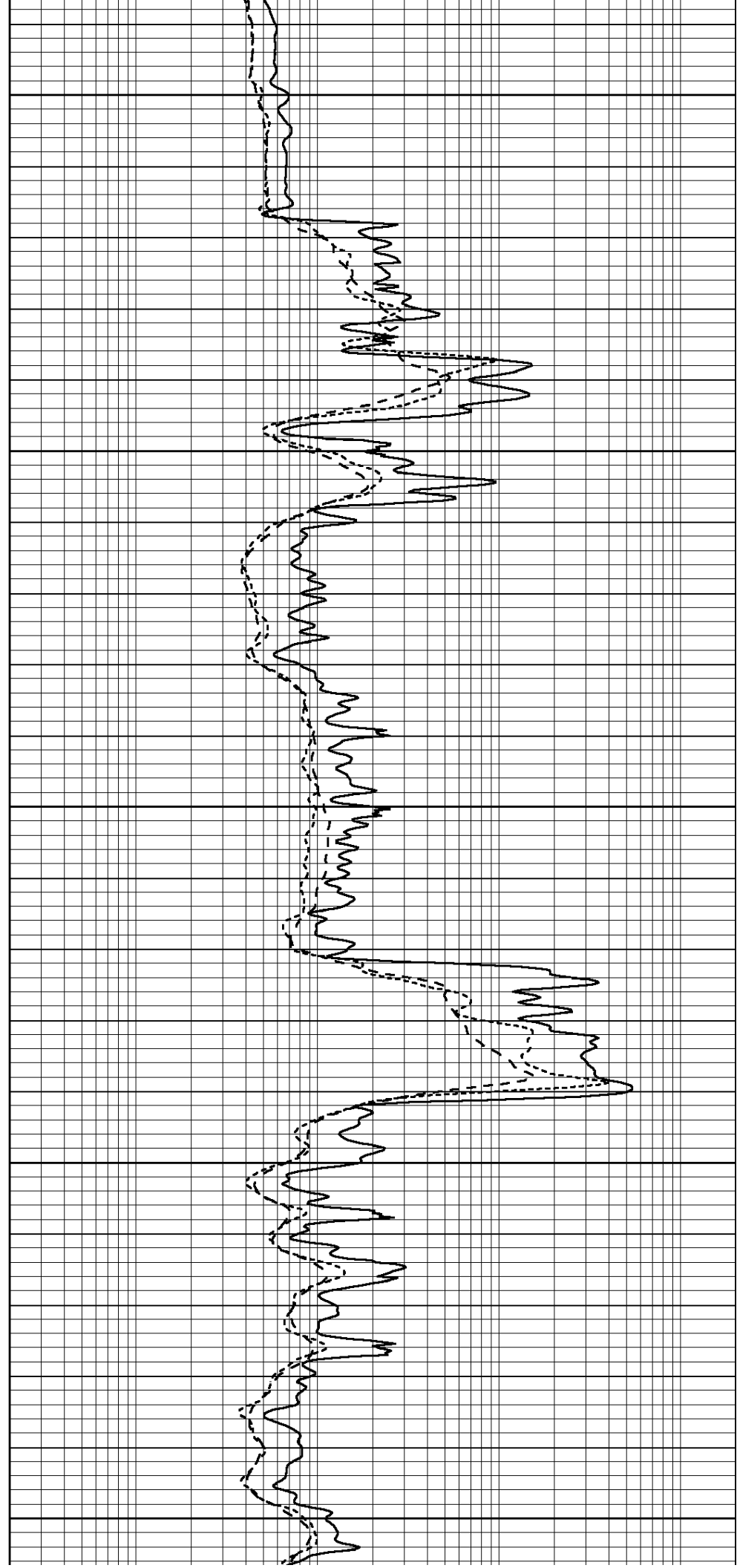
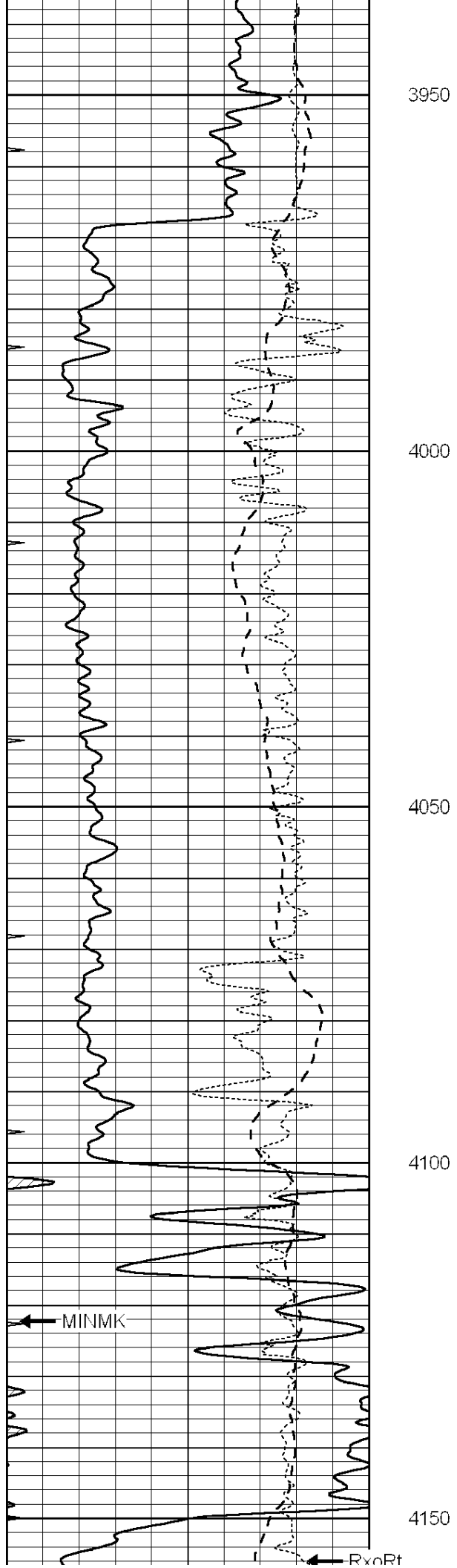
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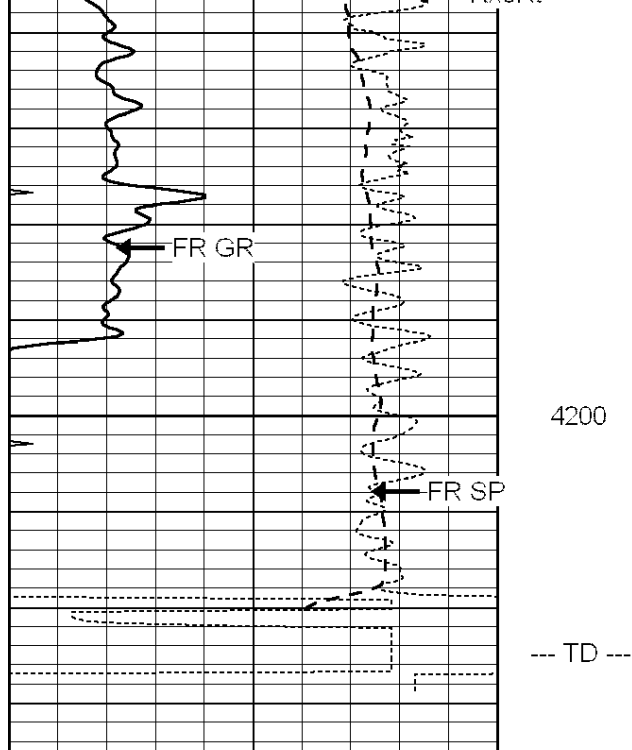
3800

3850

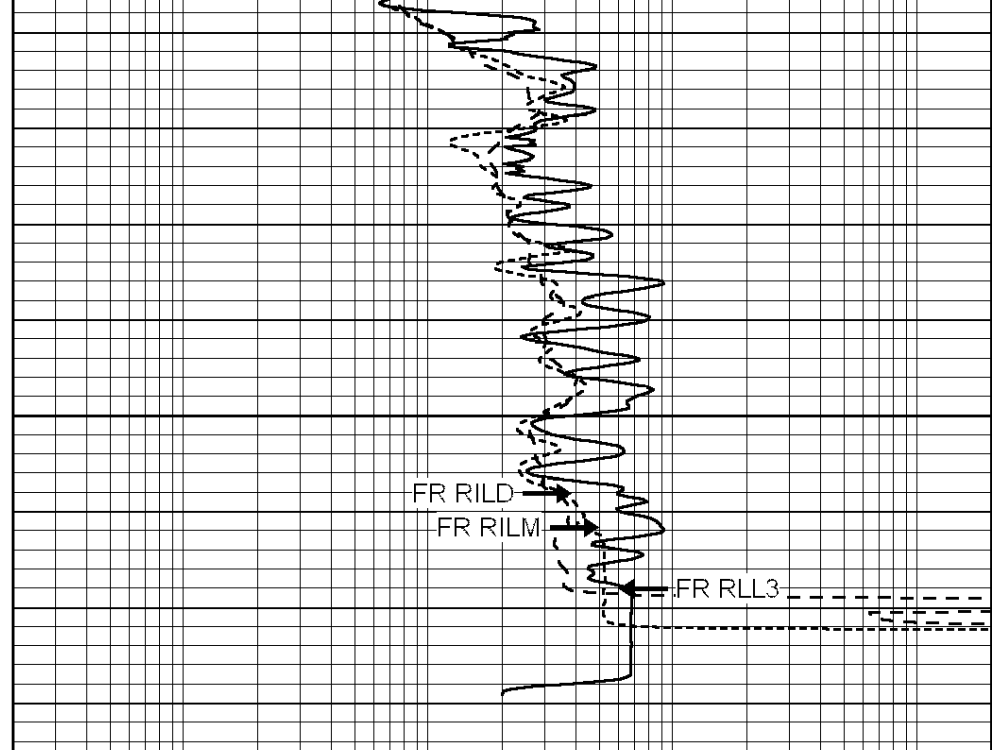
3900







0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20



0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



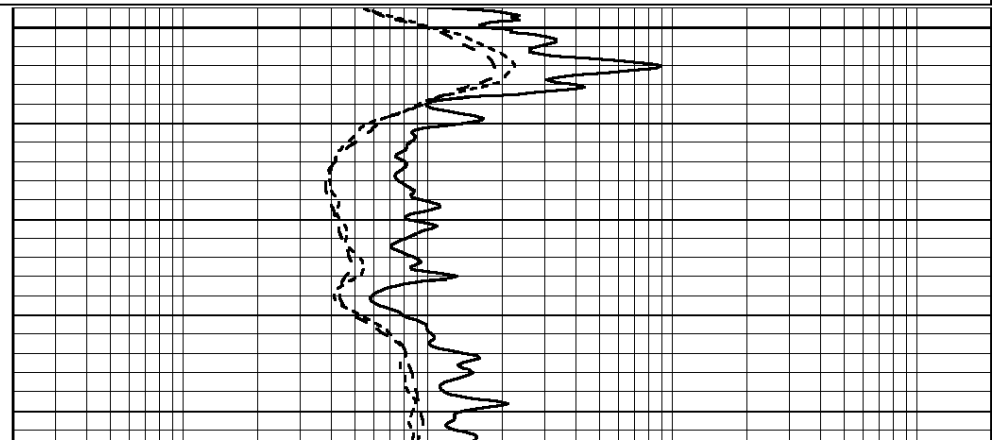
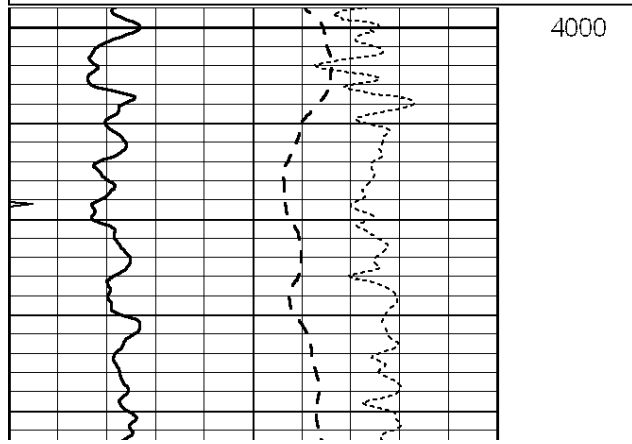
SUPERIOR
Hays,
Kansas

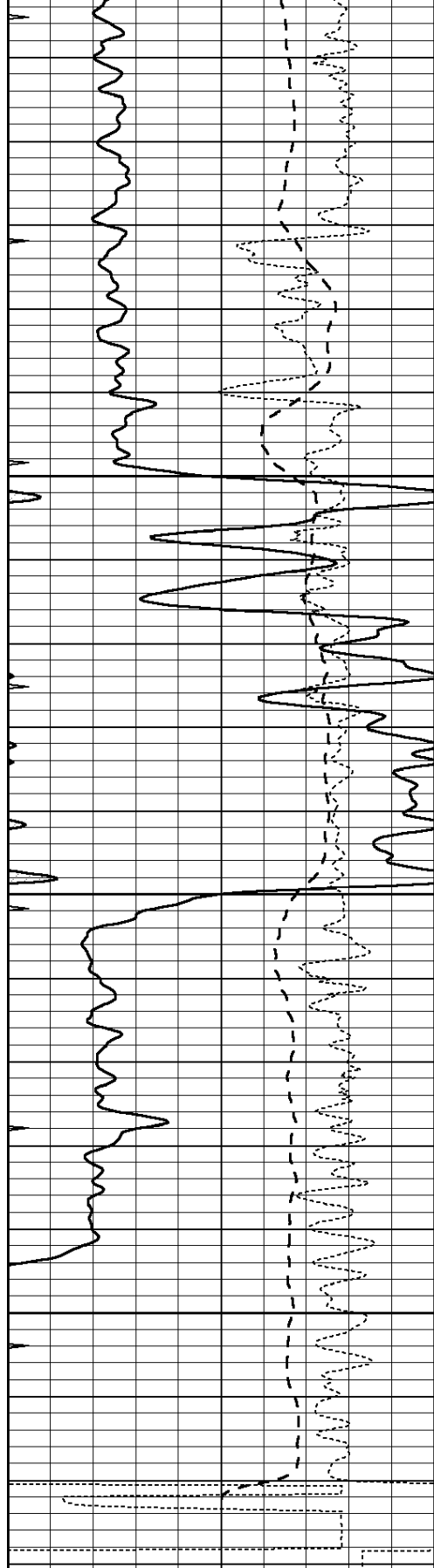
REPEAT SECTION

Database File: 008793ddn.db
 Dataset Pathname: pass2.A
 Presentation Format: dil
 Dataset Creation: Tue Jun 19 11:24:40 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000





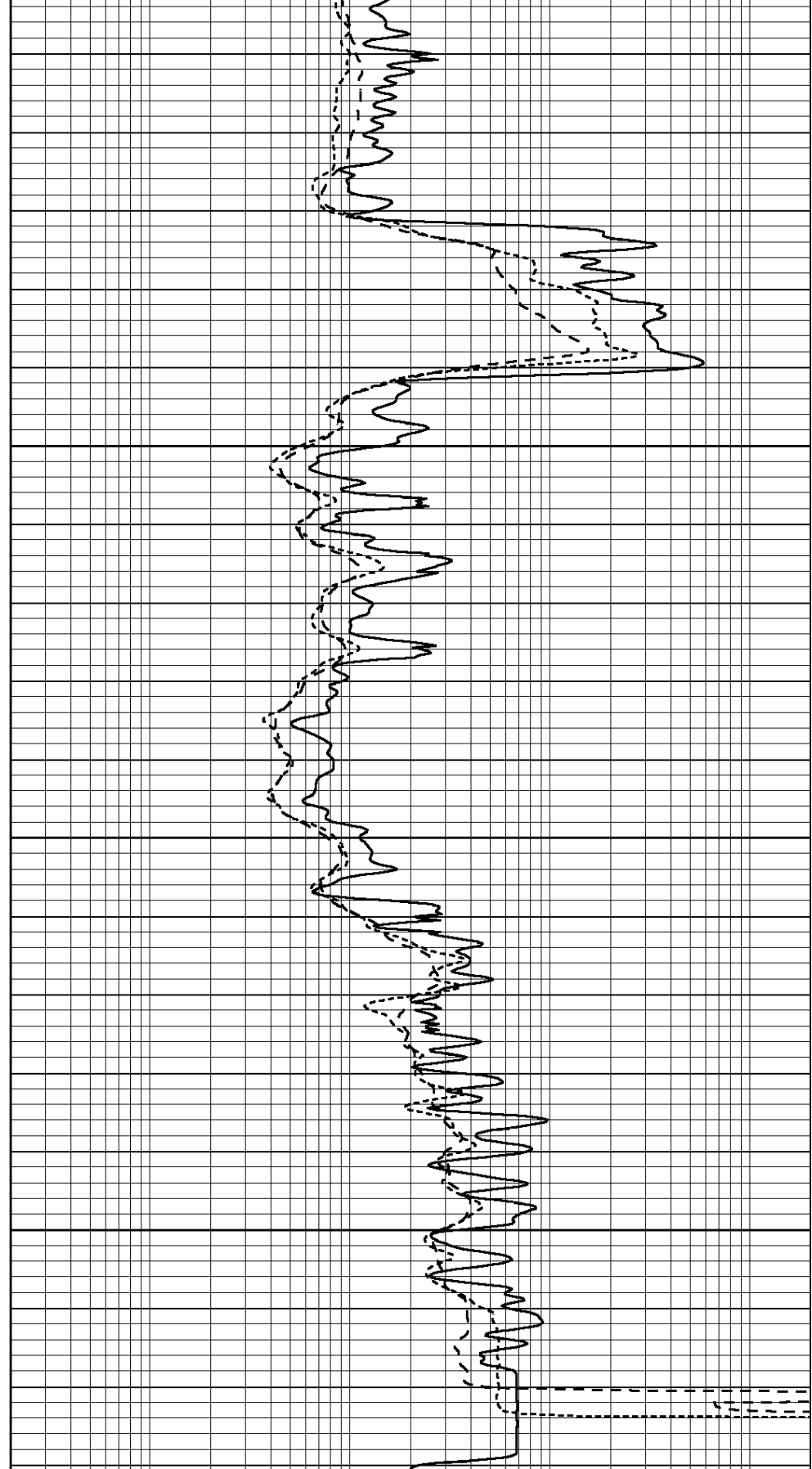
4050

4100

4150

4200

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20



0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

Calibration Report

Database File: 008793ddn.db
 Dataset Pathname: pass3.A
 Dataset Creation: Tue Jun 19 12:38:56 2012

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
 Surface Cal Performed: Tue Jun 19 11:00:36 2012
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Fri Jun 01 07:32:39 2012

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	540.000	-12.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	540.000	-14.000
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		3970.000	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		

Compensated Density Calibration Report

Serial-Model: GEAR2-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Mon Jun 18 08:01:40 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1203.63	642.89	cps
Aluminum	2.590	g/cc	267.51	439.63	cps
Spine Angle = 75.82			Density/Spine Ratio = 0.567		
	Size		Reading		
Small Ring	8.00	in	4.50	V	
Large Ring	14.00	in	6.90	V	

Compensated Neutron Calibration Report

Serial Number: NILE 21

Serial Number:
Tool Model:

NOE_Z1
G

CALIBRATION

Detector	Readings	Target	Normalization
Short Space	1.00 cps	1.00 cps	1.0000
Long Space	1.00 cps	1.00 cps	1.0000

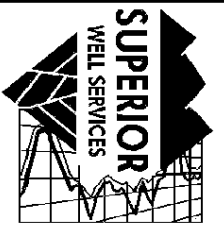
Gamma Ray Calibration Report

Serial Number: GR5
Tool Model: OPEN
Performed: Tue Jun 19 11:05:56 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.7500 GAPI/cps



**SUPERIOR
Hays,
Kansas**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company CAERUS KANSAS, LLC.
Well HARRISON #36-23
Field CLINE SOUTH
County STAFFORD State KANSAS

Company CAERUS KANSAS, LLC.
Well HARRISON #36-23
Field CLINE SOUTH
County STAFFORD
State KANSAS

Location: API #: 15-185-23756
2310' FSL & 2310' FWL
SEC 36 TWP 24S RGE 13W
Permanent Datum GROUND LEVEL Elevation 1909
Log Measured From KELLY BUSHING 15' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DIL
SONIC/MEL
Elevation
K.B. 1924
D.F.
G.L. 1909

Date	6-19-12
Run Number	ONE
Depth Driller	4225
Depth Logger	4220
Bottom Logged Interval	4196
Top Log Interval	2700
Casing Driller	764
Casing Logger	764
Bit Size	7.875
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2 / 52
pH / Fluid Loss	10.5 / 10.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.70 @ 84F
Rmf @ Meas. Temp	0.53 @ 84F
Rmc @ Meas. Temp	0.84 @ 84F
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.500 @ 117F
Time Circulation Stopped	3 HOURS
Time Logger on Bottom	10:45 A.M.
Maximum Recorded Temperature	117F
Equipment Number	860
Location	HAYS, KS.
Recorded By	RUPP
Witnessed By	ROGER FISHER

<<< 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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: ST. JOHN, S TO JCT. OF #281 & #50, 3E TO 30TH ST., 3S, 1/2W, N INTO.

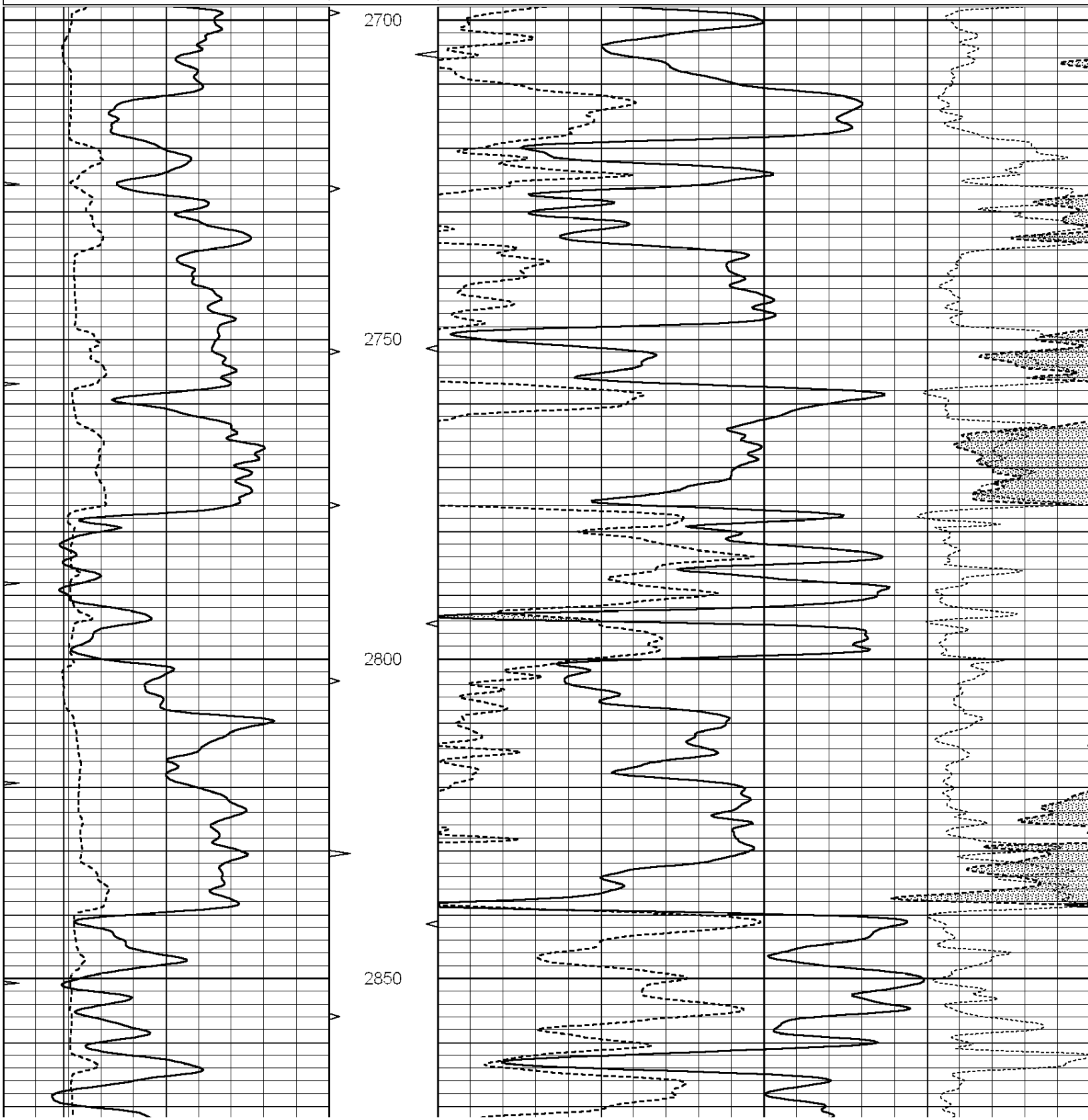


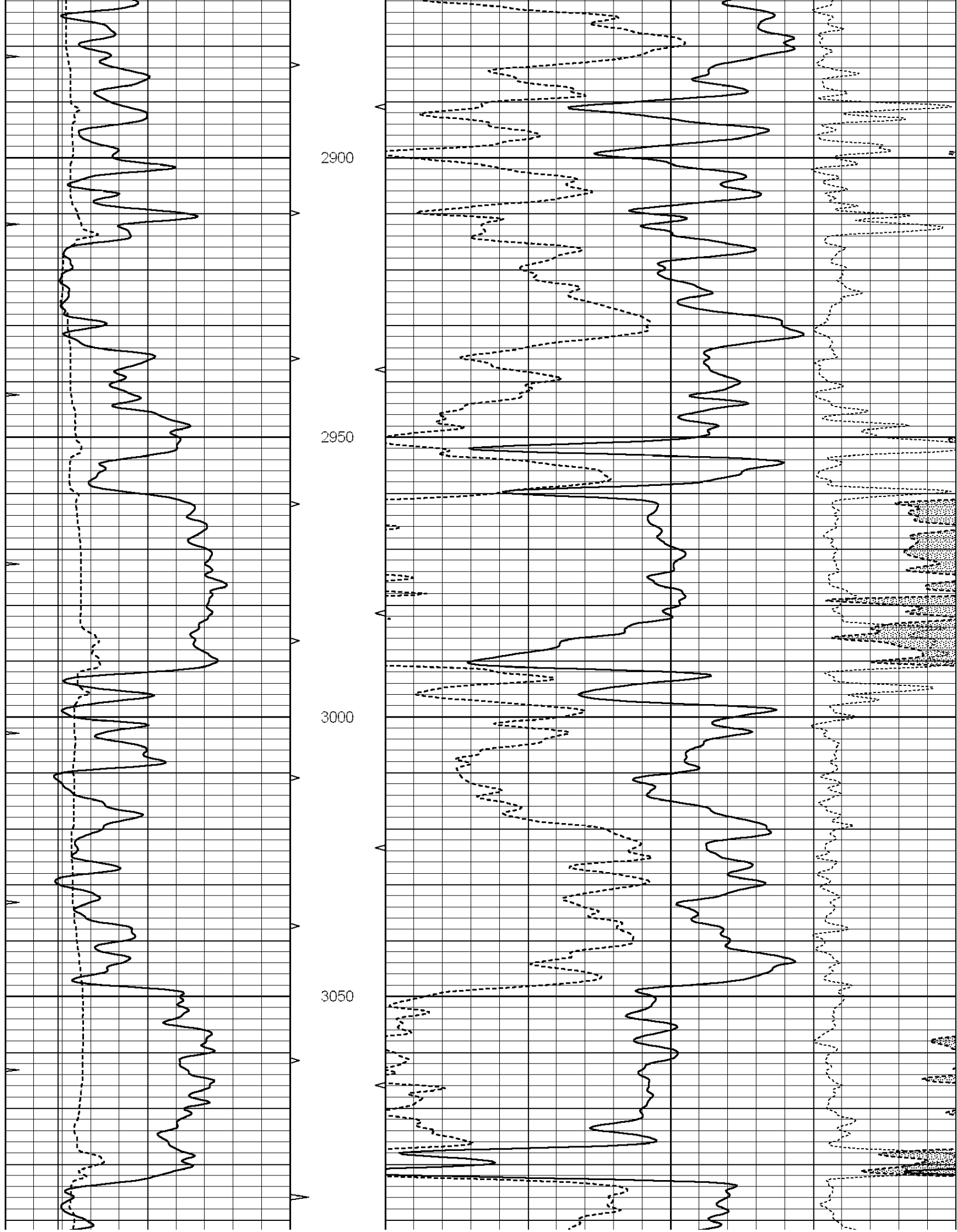
**SUPERIOR
Hays,
Kansas**

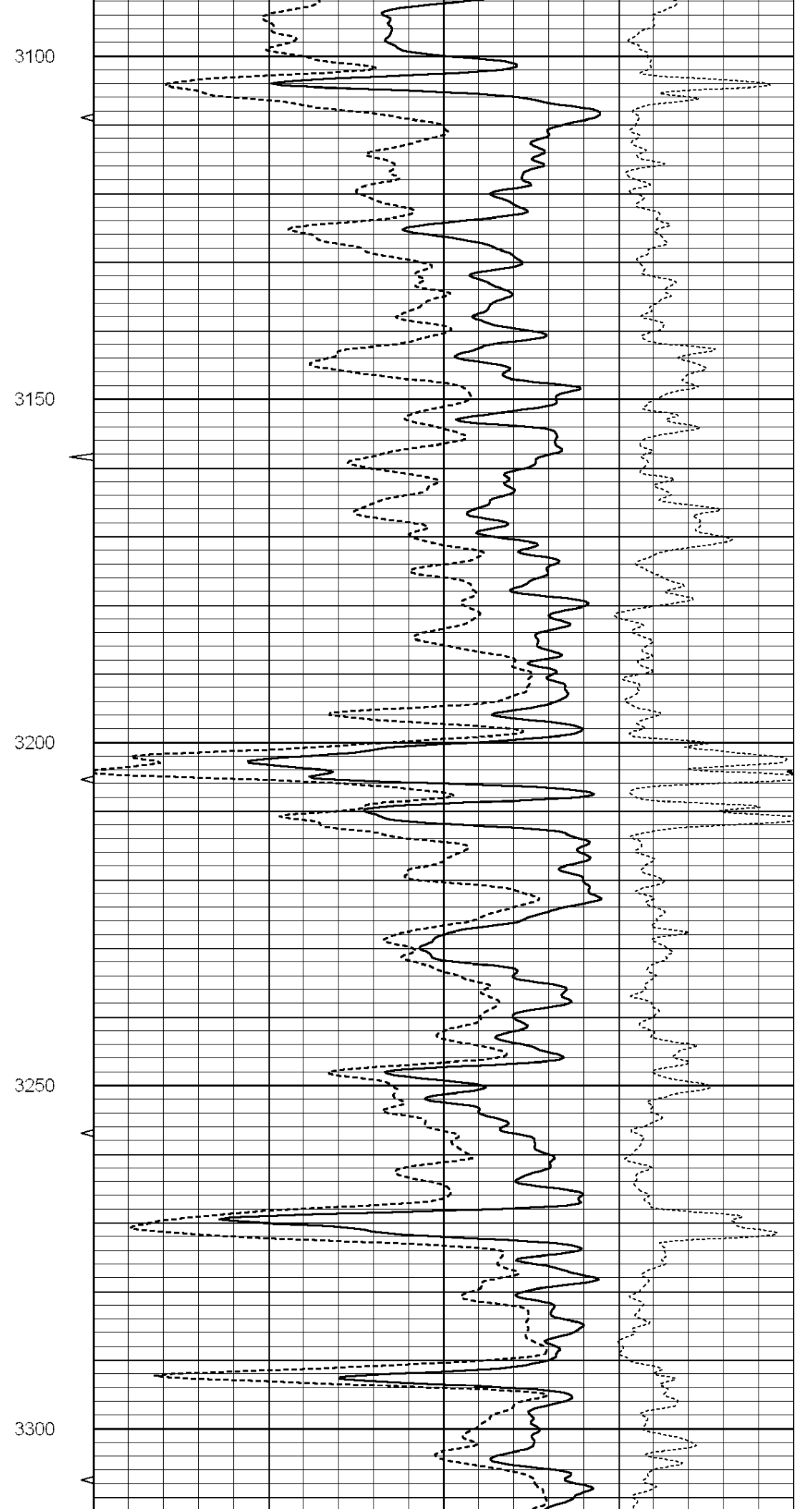
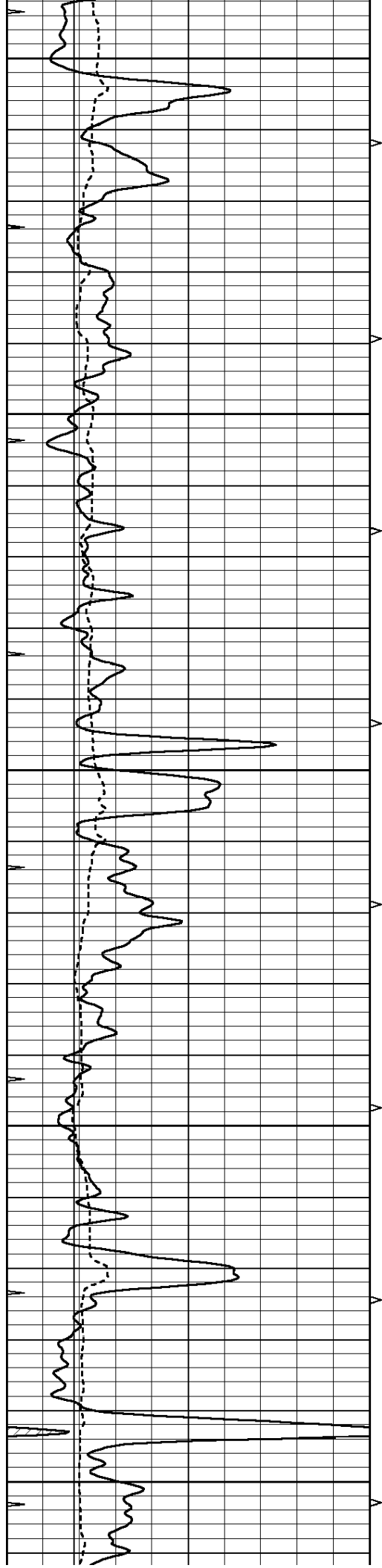
MAIN SECTION

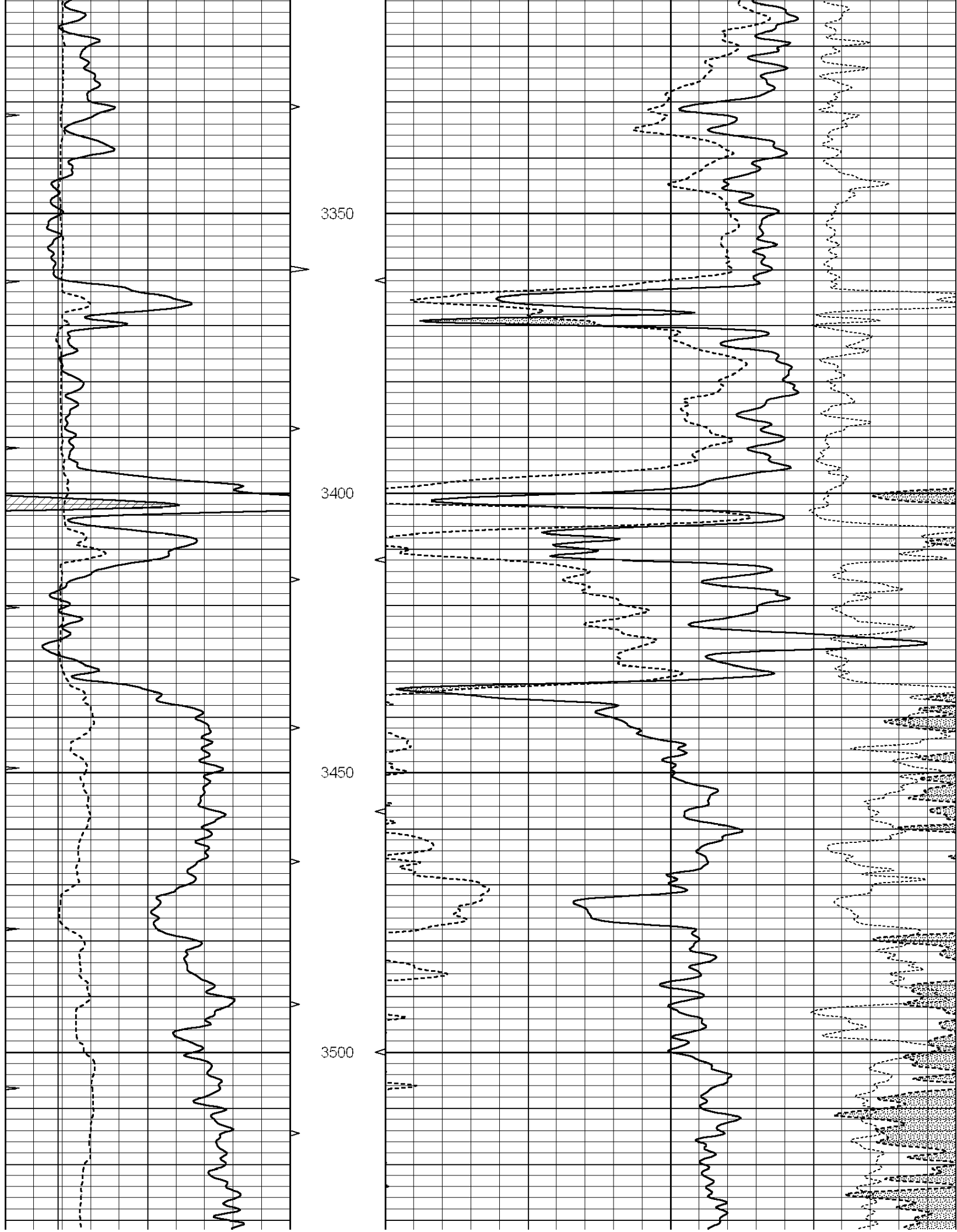
Database File: 008793ddn.db
 Dataset Pathname: pass3.A
 Presentation Format: den_neu
 Dataset Creation: Tue Jun 19 12:38:56 2012
 Charted by: Depth in Feet scaled 1:240

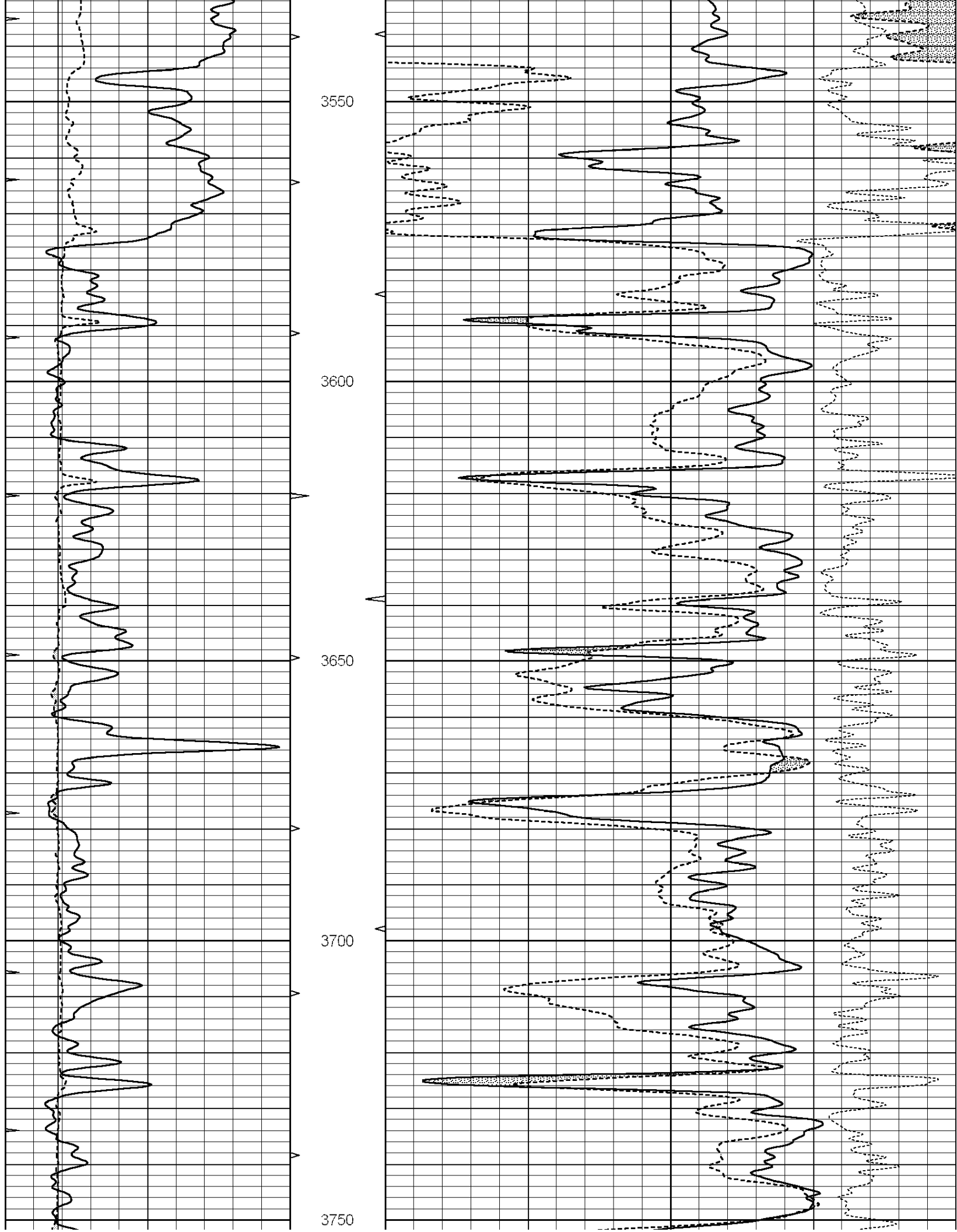
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		

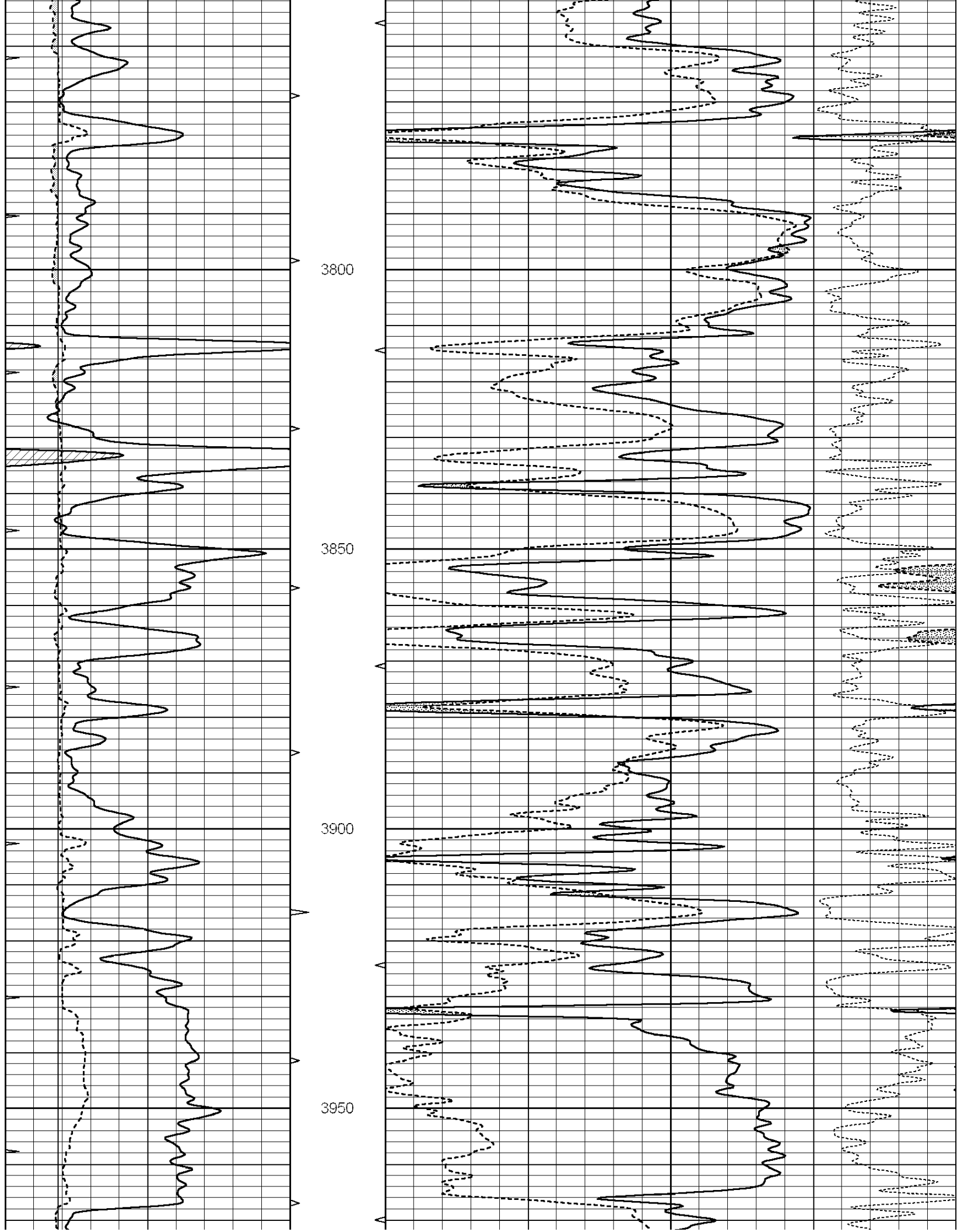


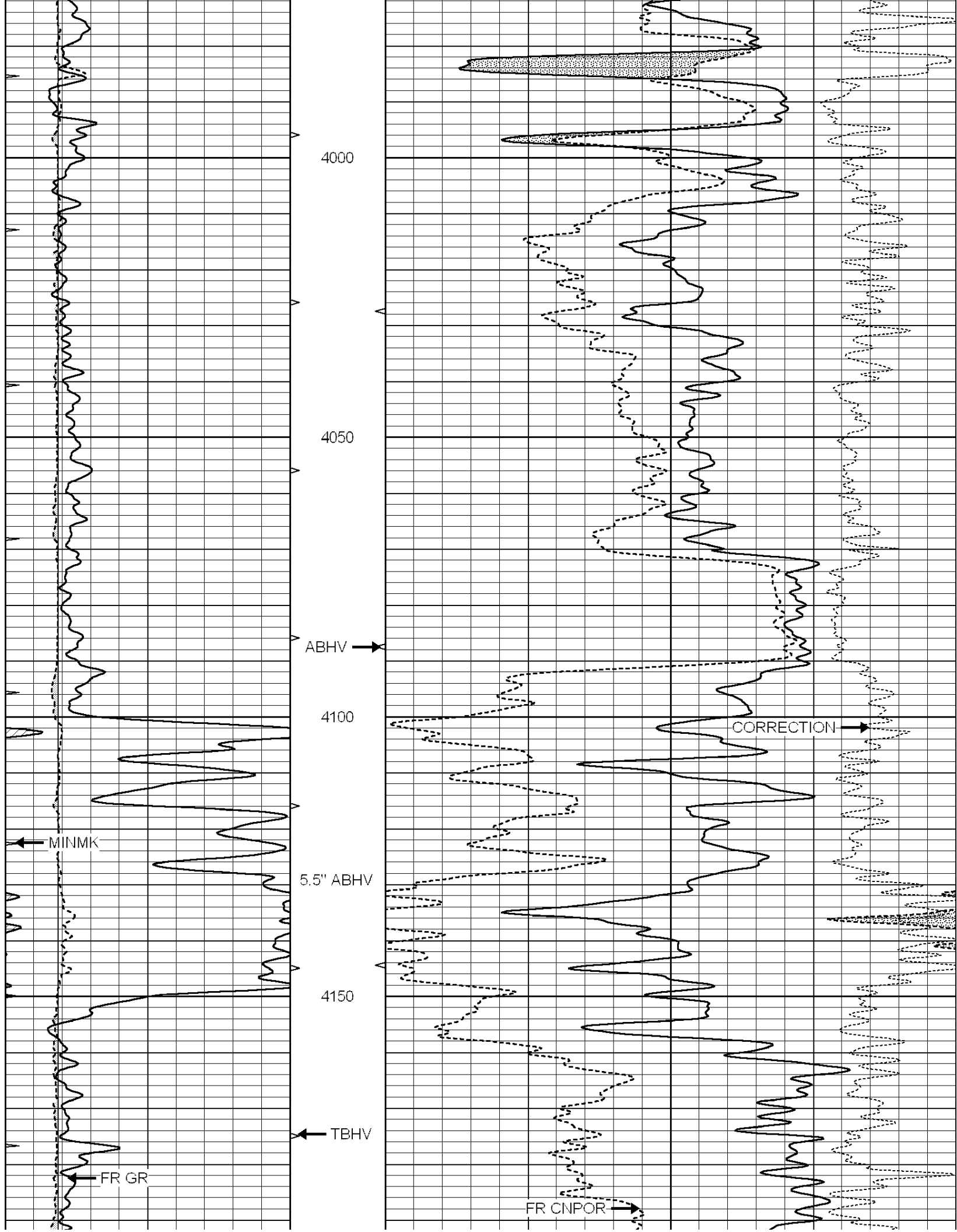


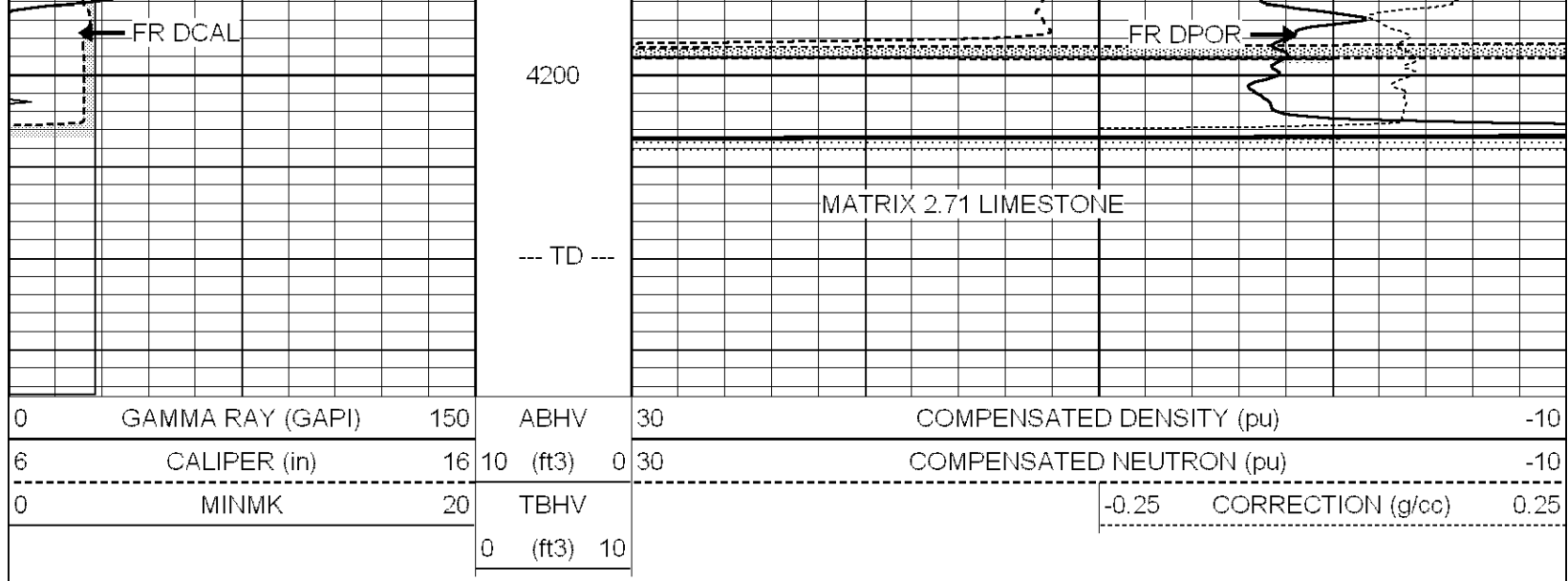










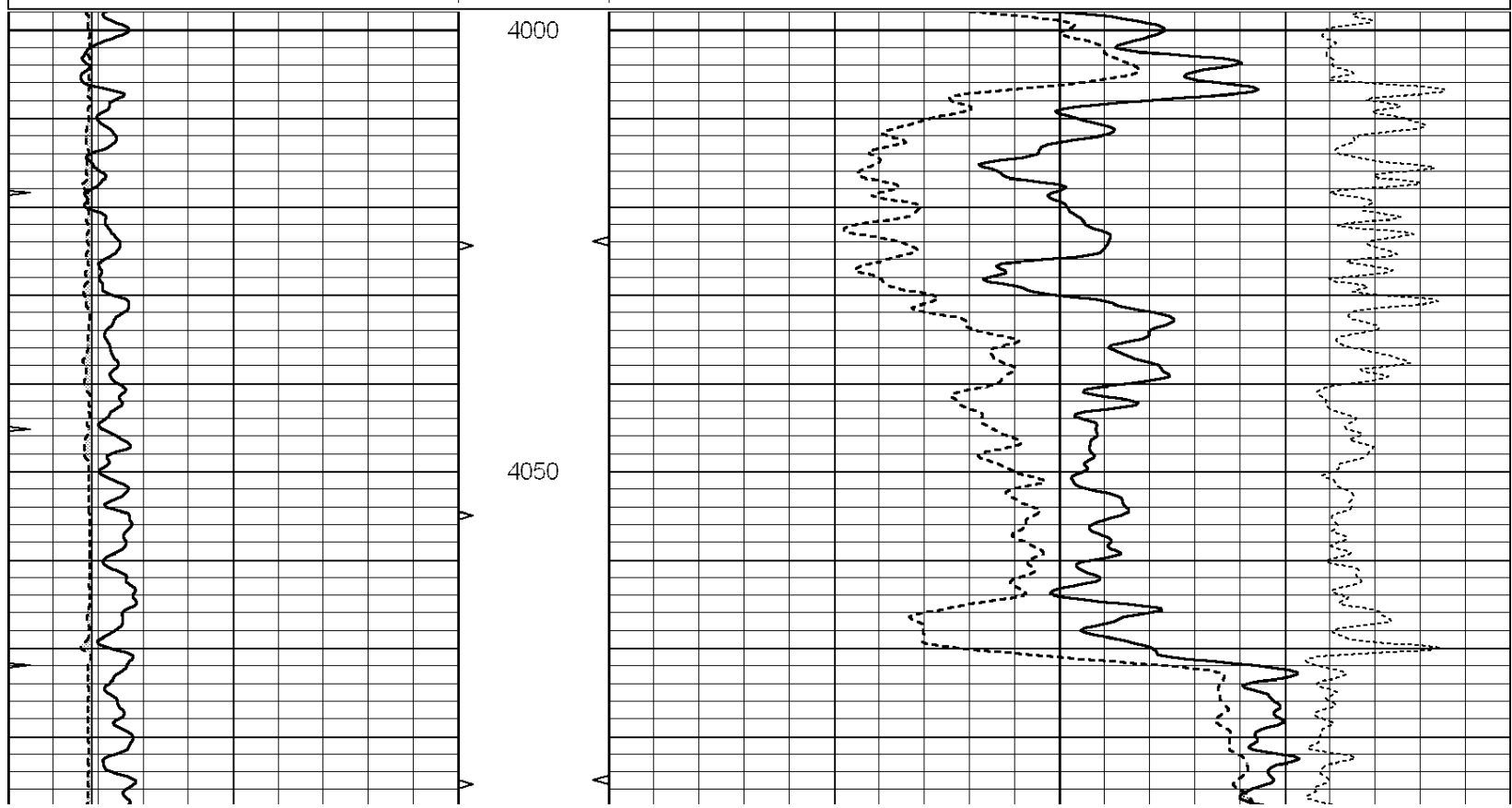


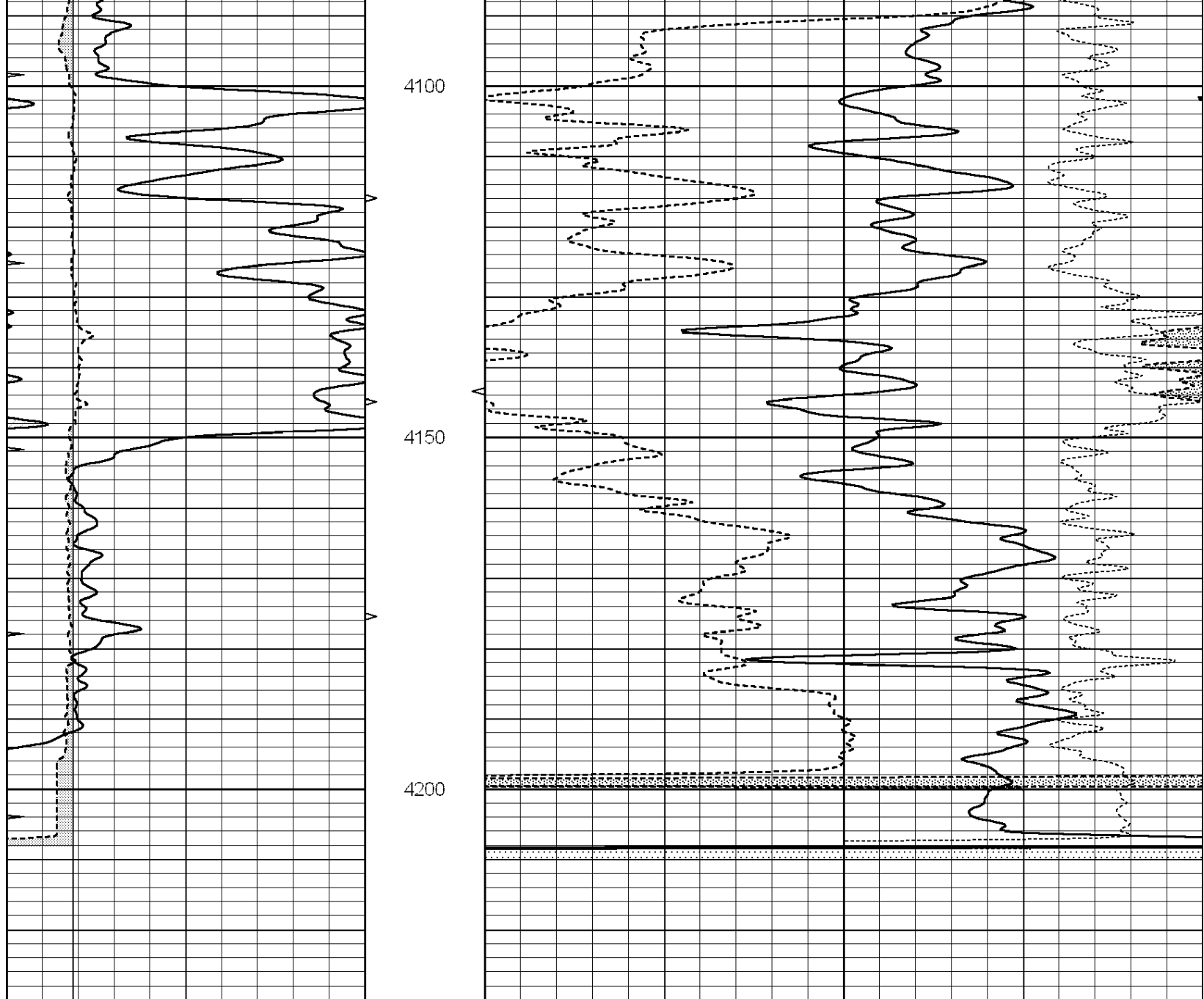
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 008793ddn.db
 Dataset Pathname: pass2.A
 Presentation Format: den_neu
 Dataset Creation: Tue Jun 19 11:24:40 2012 by Calc Open-Cased 090629
 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 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		





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		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		



SUPERIOR
Hays,
Kansas

DOLOMITE MATRIX 2.87

Database File: 008793ddn.db
 Dataset Pathname: pass2.D
 Presentation Format: den_neu
 Dataset Creation: Tue Jun 19 11:31:24 2012 by Calc Open-Cased 090629
 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 30	COMPENSATED NEUTRON (pu)	-10

MINMK

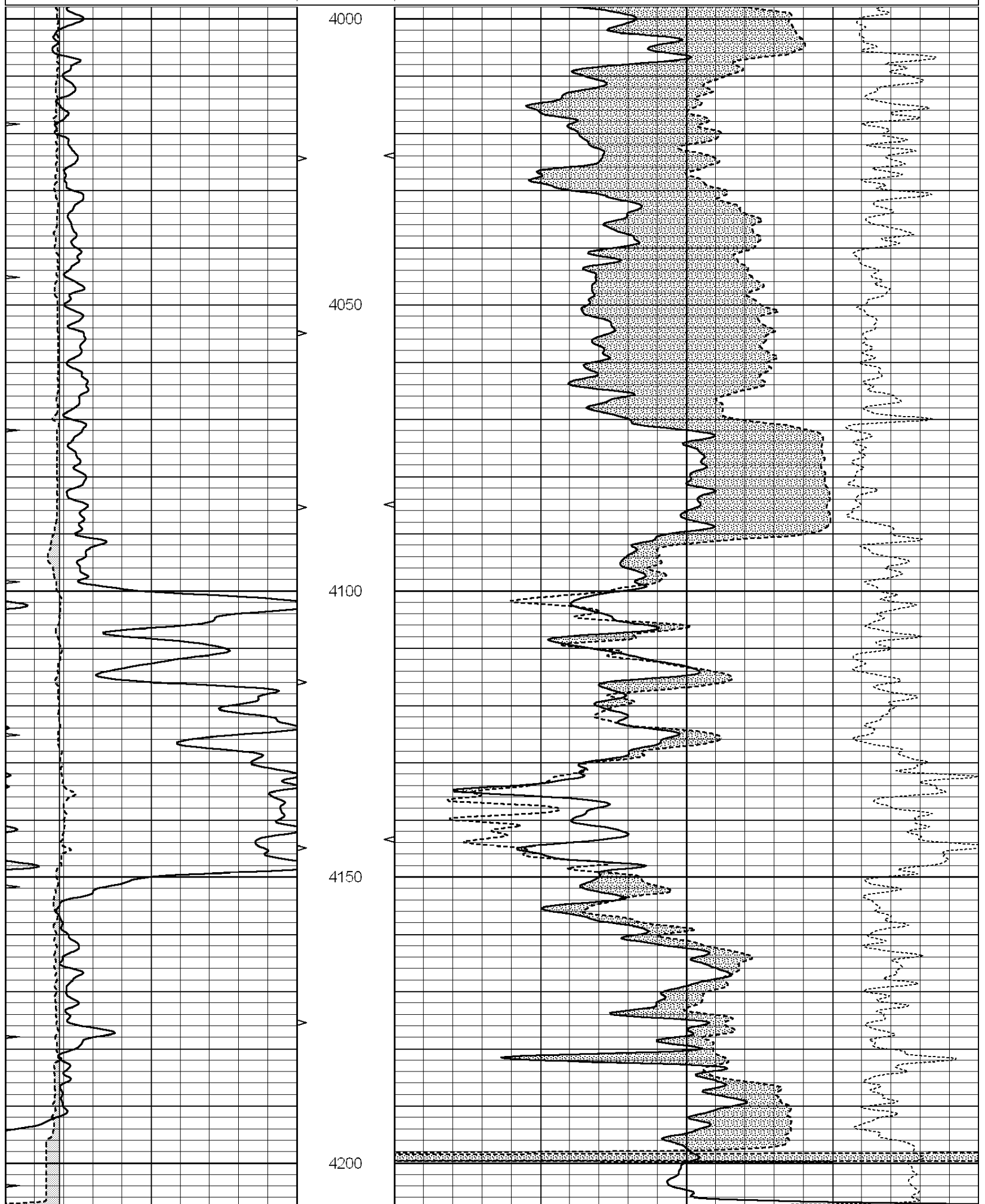
20

TBHV

-0.25 CORRECTION (g/cc)

0.25

0 (ft3) 10



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			-0.25	CORRECTION (g/cc)		0.25	
			0 (ft3)	10						

Calibration Report

Database File: 008793ddn.db
 Dataset Pathname: pass3.A
 Dataset Creation: Tue Jun 19 12:38:56 2012

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
 Surface Cal Performed: Tue Jun 19 11:00:36 2012
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Fri Jun 01 07:32:39 2012

Surface Calibration

Loop:	Readings			V	References			Results	
	Air	Loop			Air	Loop		m	b
Deep	-0.014	0.629			0.000	400.000	mmho/m	540.000	-12.000
Medium	0.039	0.728			0.000	464.000	mmho/m	540.000	-14.000
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			mmho/m	References			Results	
	Zero	Cal			Zero	Cal		m'	b'
Deep	0.000	0.000			14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000			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			3970.000	mmho-m		

After Survey Verification

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

Compensated Density Calibration Report

Serial-Model: GEAR2-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Mon Jun 18 08:01:40 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1203.63	642.89	cps
Aluminum	2.590	g/cc	267.51	439.63	cps
Spine Angle = 75.82			Density/Spine Ratio = 0.567		
	Size		Reading		
Small Ring	8.00	in	4.50	V	
Large Ring	14.00	in	6.90	V	

Compensated Neutron Calibration Report

Serial Number: NUE_2I
Tool Model: G

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	1.00	cps	1.00	cps	1.0000
Long Space	1.00	cps	1.00	cps	1.0000

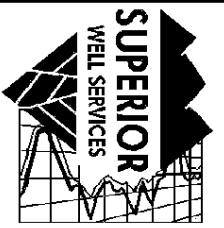
Gamma Ray Calibration Report

Serial Number: GR5
Tool Model: OPEN
Performed: Tue Jun 19 11:05:56 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.7500 GAPI/cps



**SUPERIOR
Hays,
Kansas**

**SONIC
LOG**

Company CAERUS KANSAS, LLC.
Well HARRISON #36-23
Field CLINE SOUTH
County STAFFORD State KANSAS

Company CAERUS KANSAS, LLC.
Well HARRISON #36-23
Field CLINE SOUTH
County STAFFORD
State KANSAS

Location: API #: 15-185-23756
2310' FSL & 2310' FWL
SEC 36 TWP 24S RGE 13W
Permanent Datum GROUND LEVEL Elevation 1909
Log Measured From KELLY BUSHING 15' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL/MEL
Elevation
K.B. 1924
D.F.
G.L. 1909

Date	6-19-12
Run Number	TW0
Depth Driller	4225
Depth Logger	4220
Bottom Logged Interval	4212
Top Log Interval	750
Casing Driller	764
Casing Logger	764
Bit Size	7.875
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2 / 52
pH / Fluid Loss	10.5 / 10.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.70 @ 84F
Rmf @ Meas. Temp	0.53 @ 84F
Rmc @ Meas. Temp	0.84 @ 84F
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.500 @ 117F
Time Circulation Stopped	3 HOURS
Time Logger on Bottom	10:45 A.M.
Maximum Recorded Temperature	117F
Equipment Number	860
Location	HAYS, KS.
Recorded By	RUPP
Witnessed By	ROGER FISHER

<<< 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

SUPERIOR WELL SERVICES
 785-628-6395
THANK YOU FOR YOUR BUSINESS
 DIRECTIONS: ST. JOHN, S TO JCT. OF #281 & #50, 3E TO 30TH ST., 3S, 1/2W, N INTO.

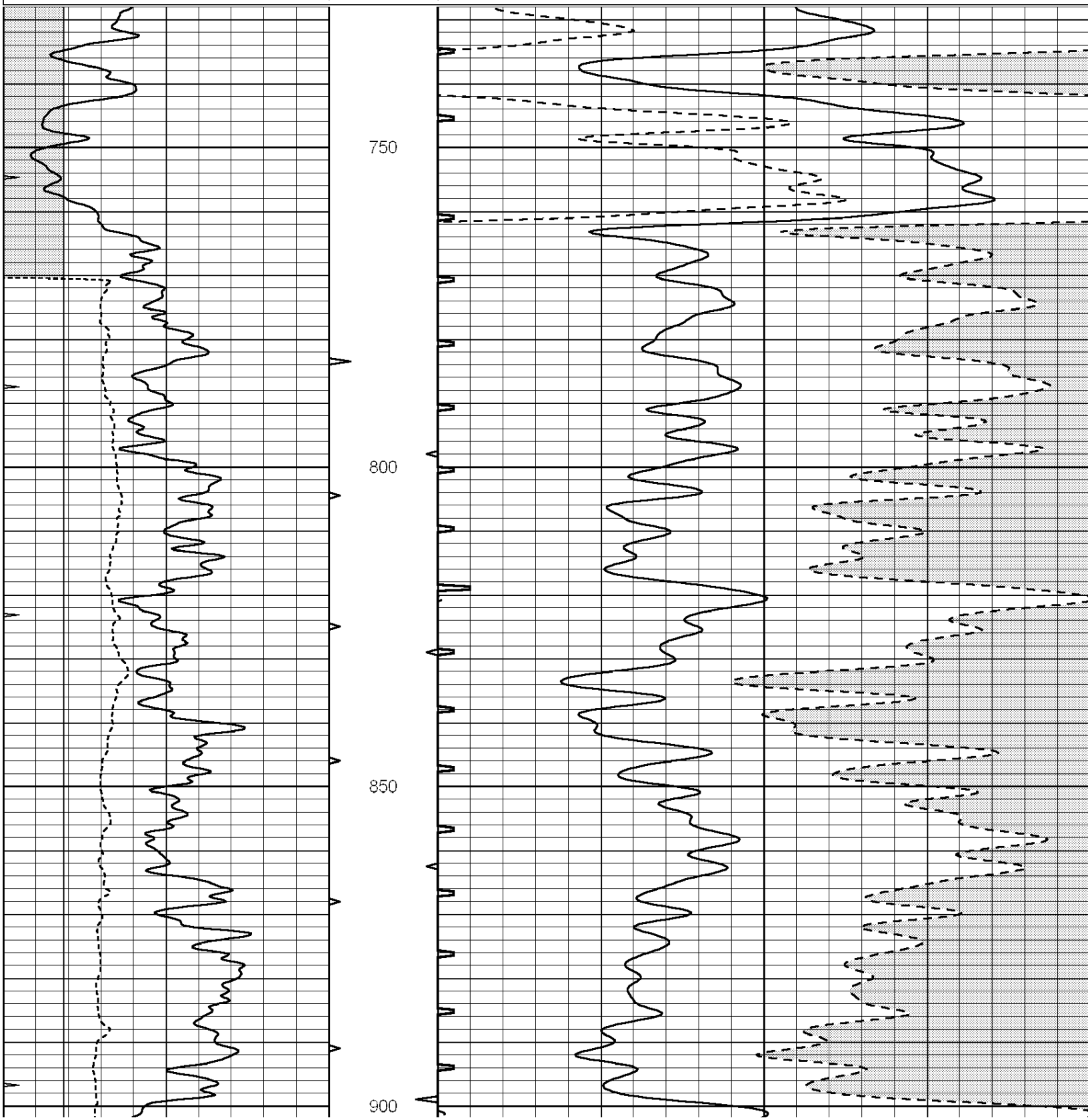


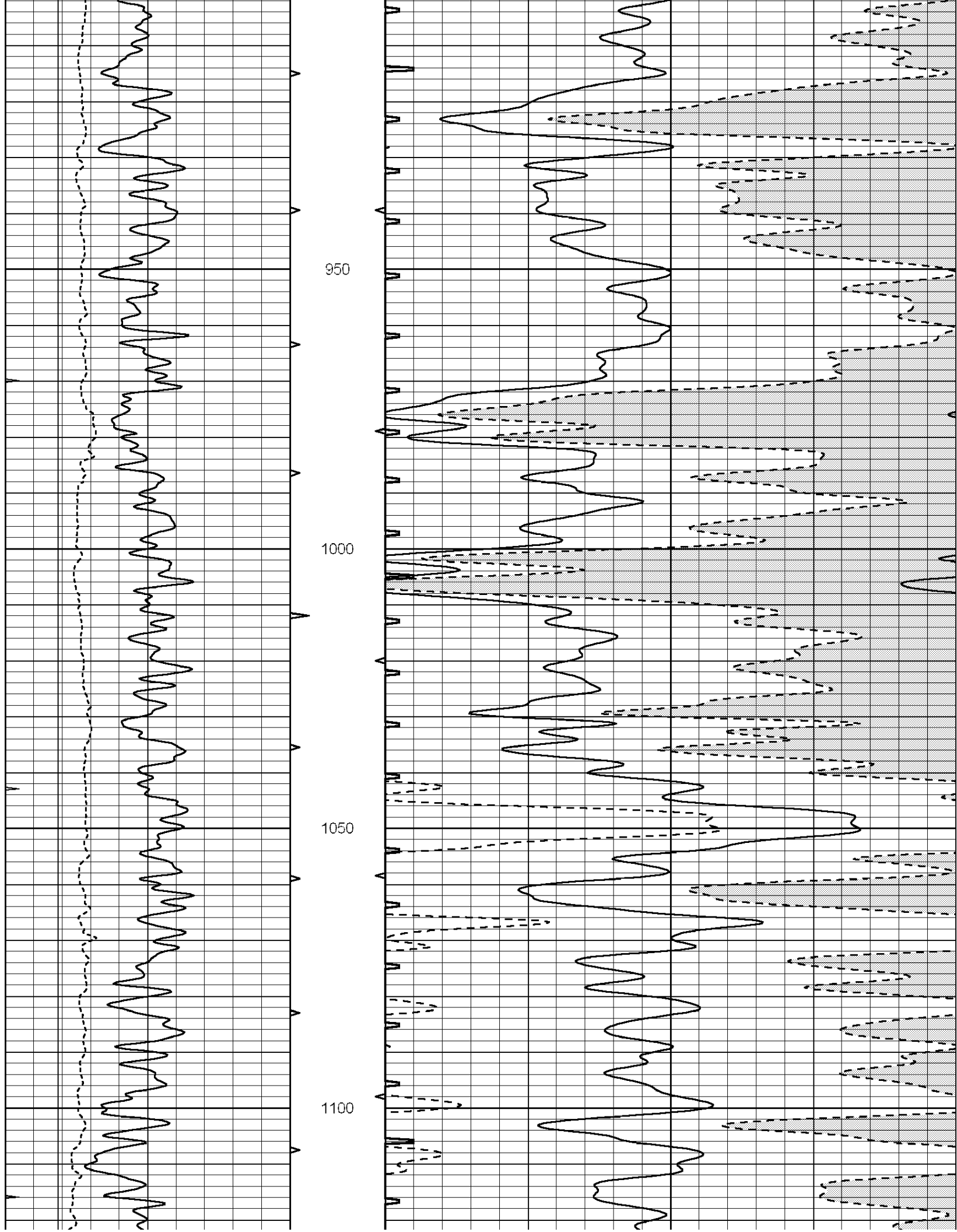
**SUPERIOR
Hays,
Kansas**

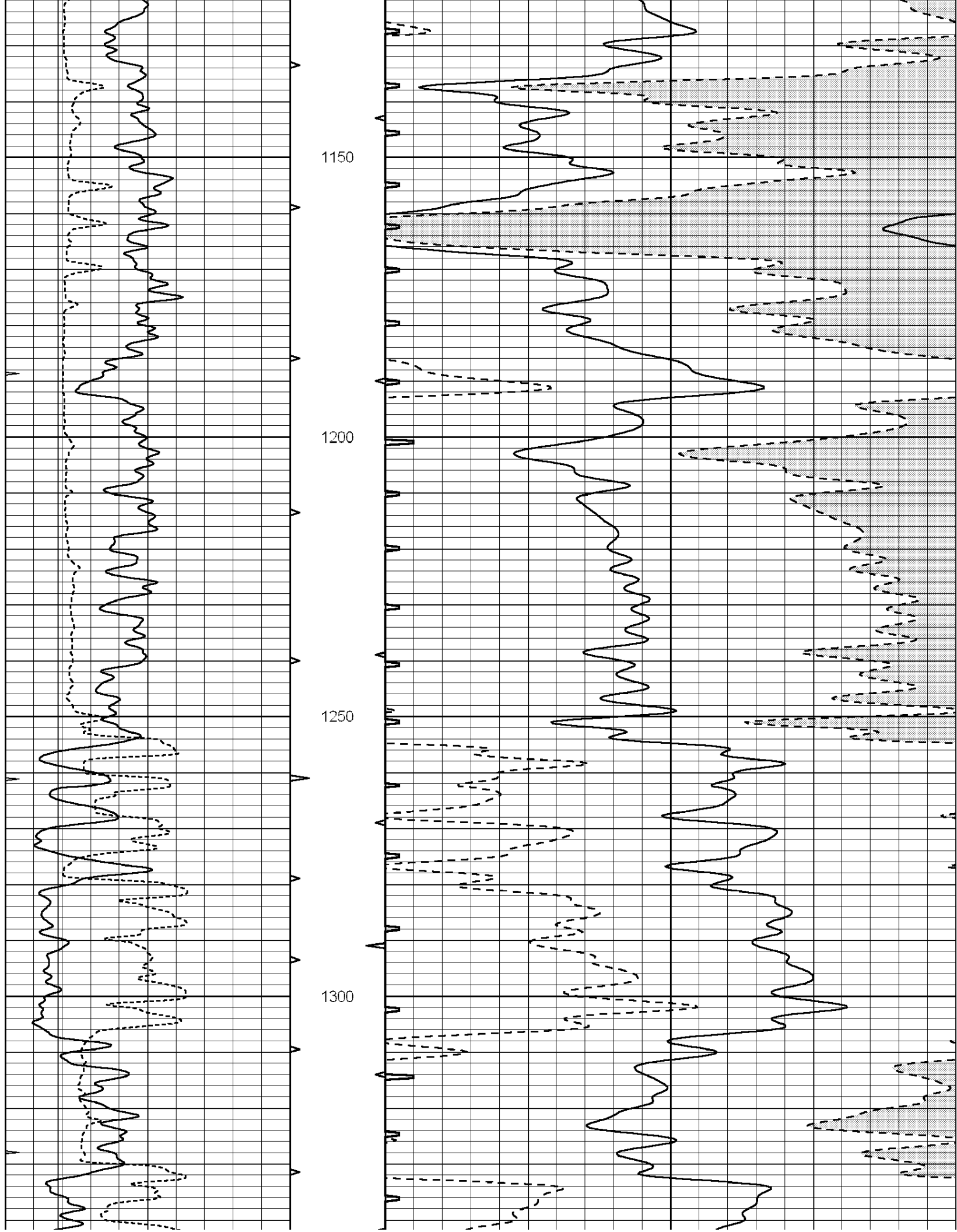
MAIN SECTION

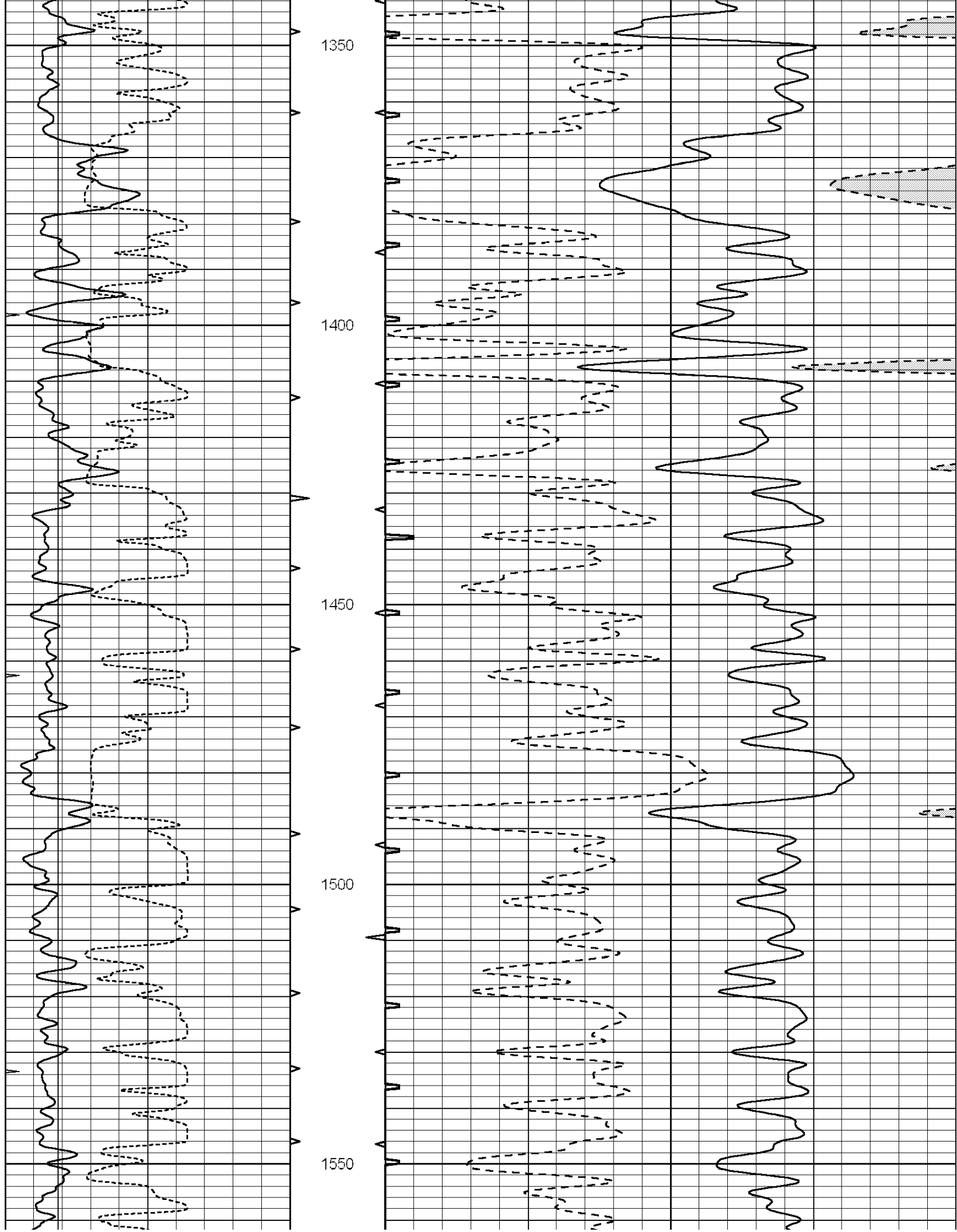
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 Charted by: Depth in Feet scaled 1:240

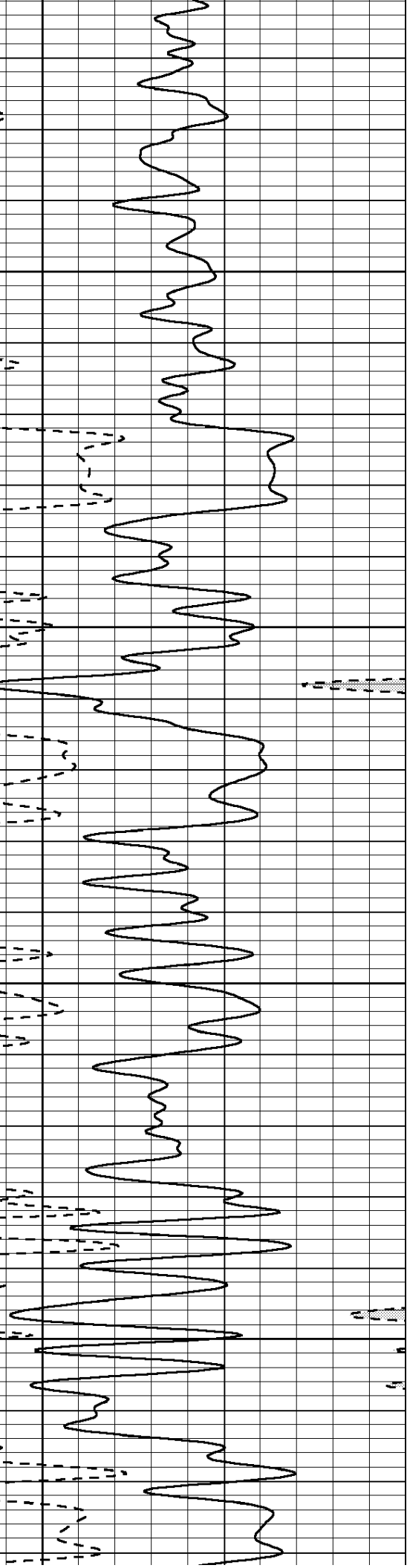
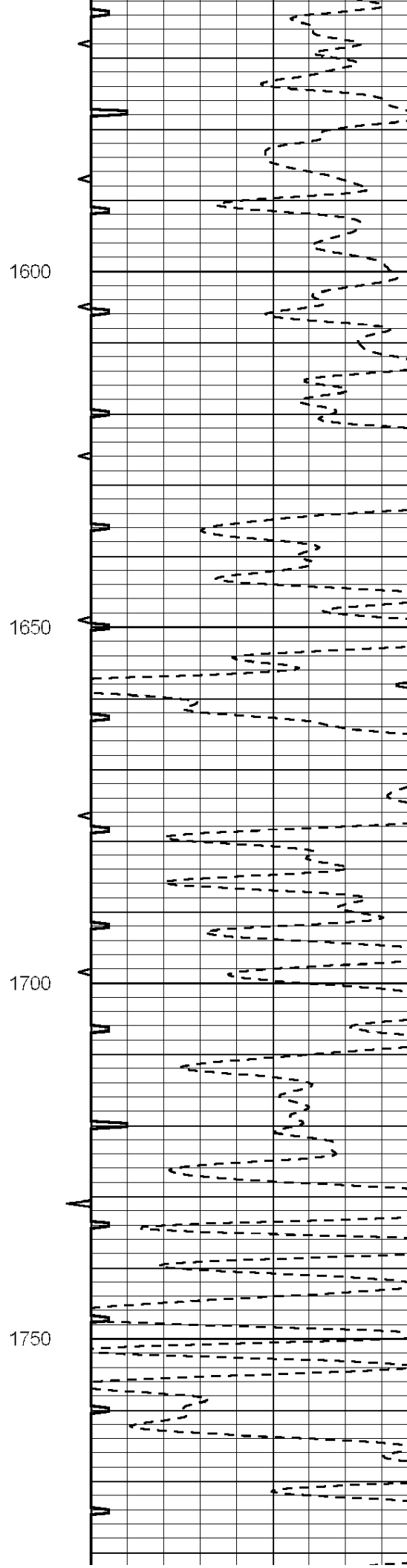
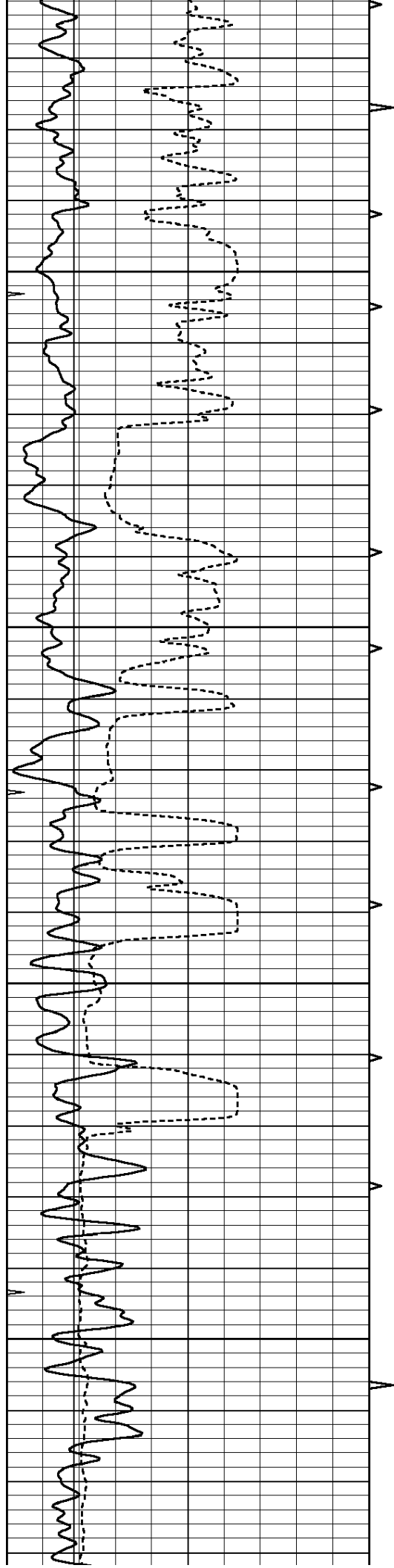
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6	MELCAL (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			

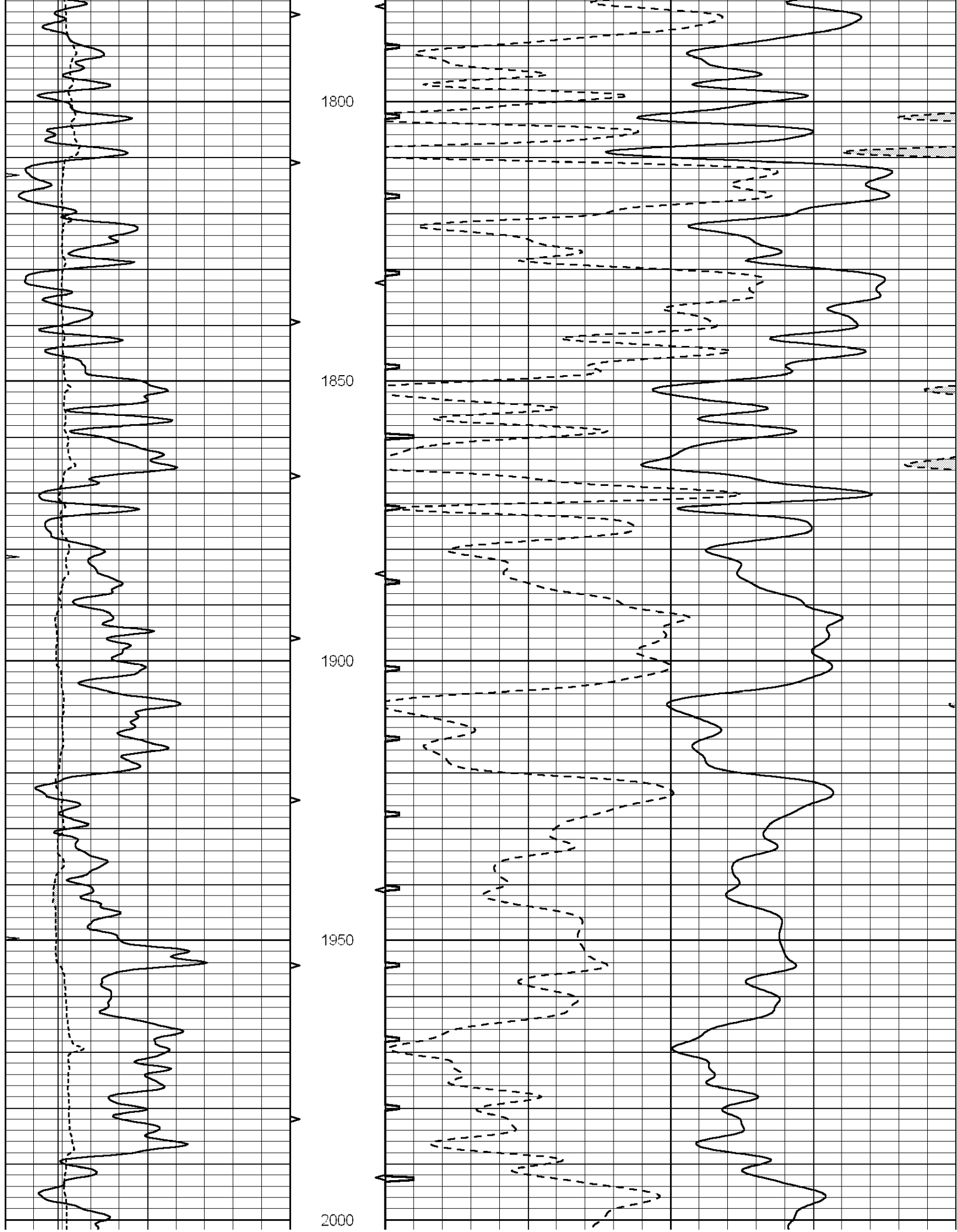


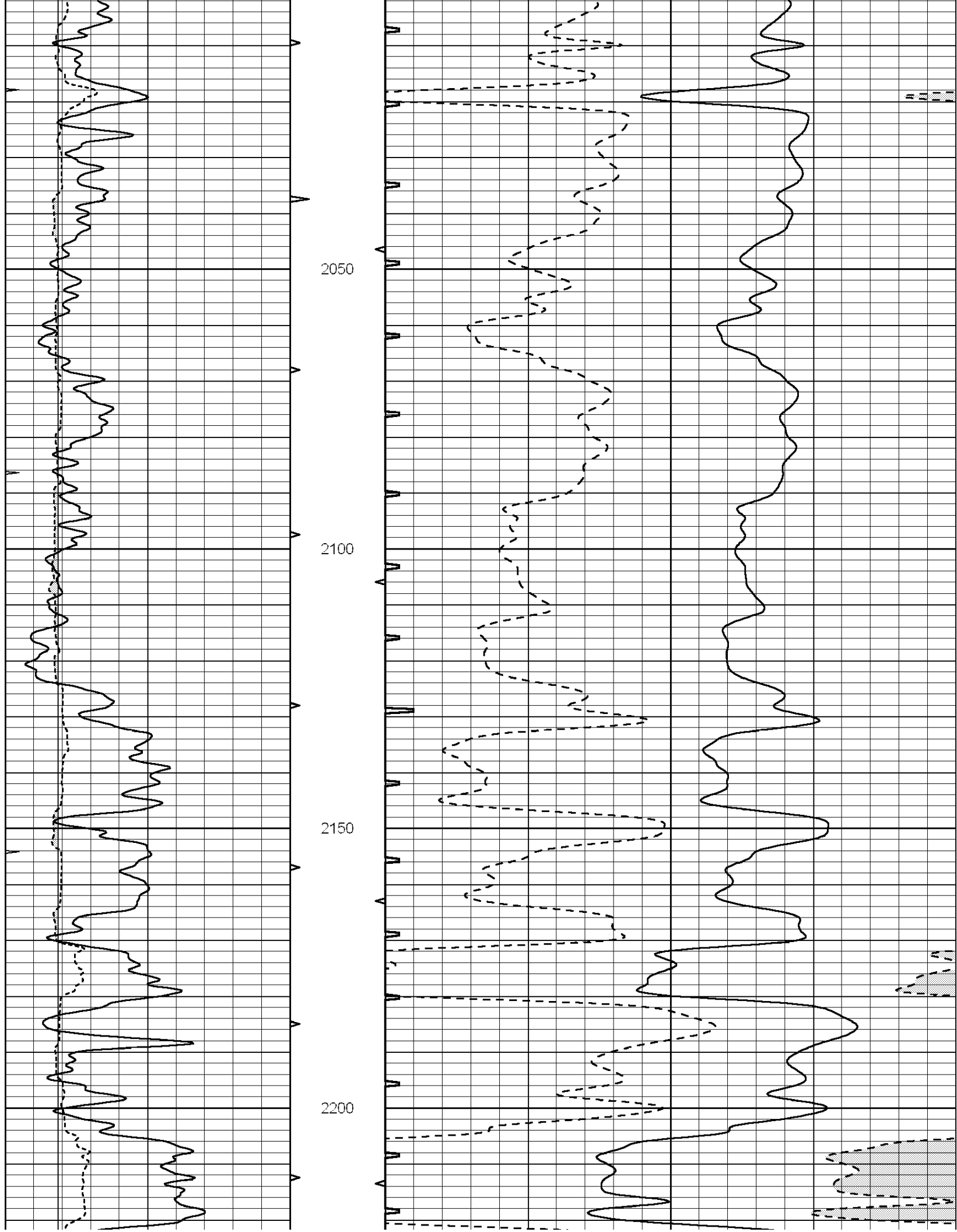




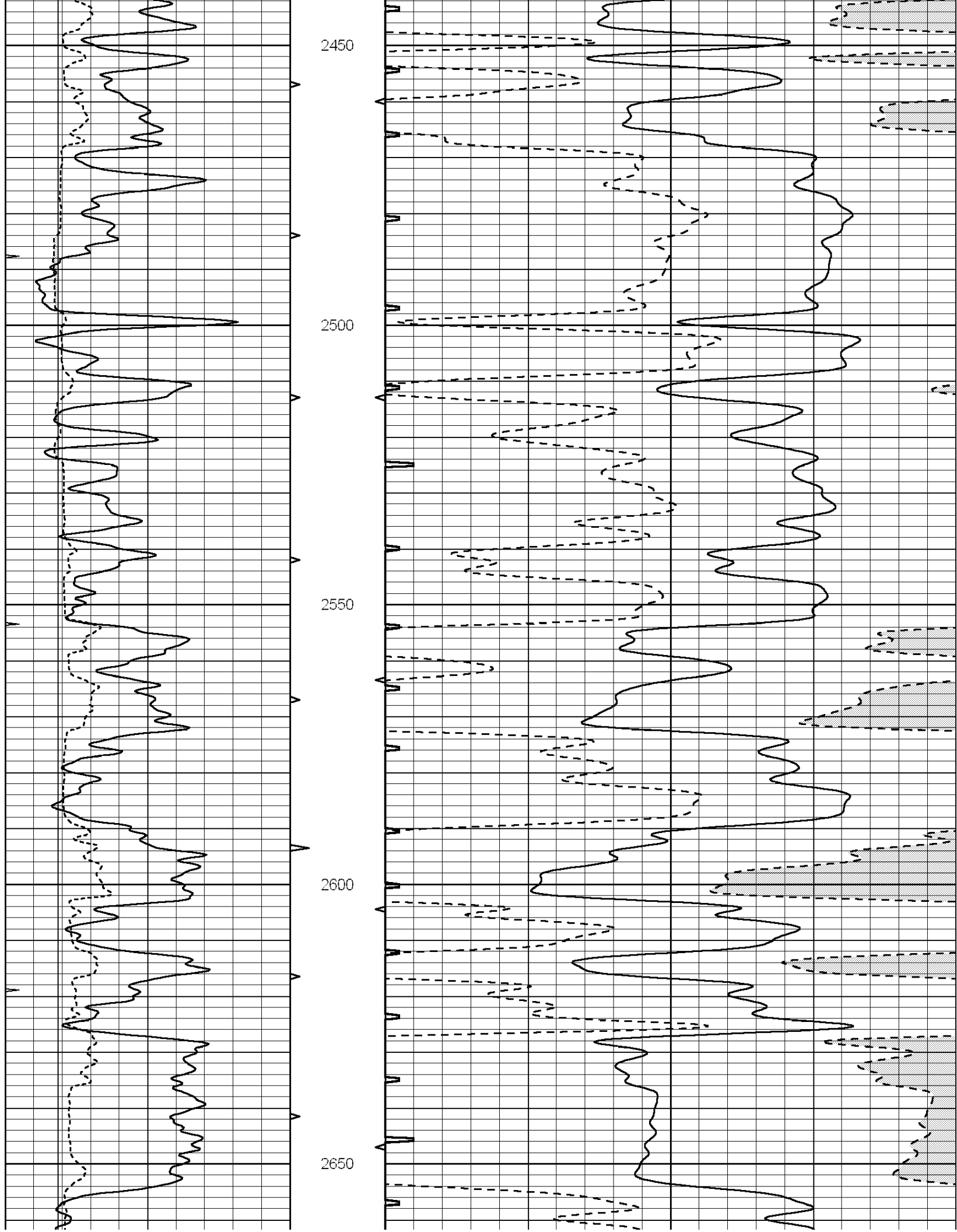


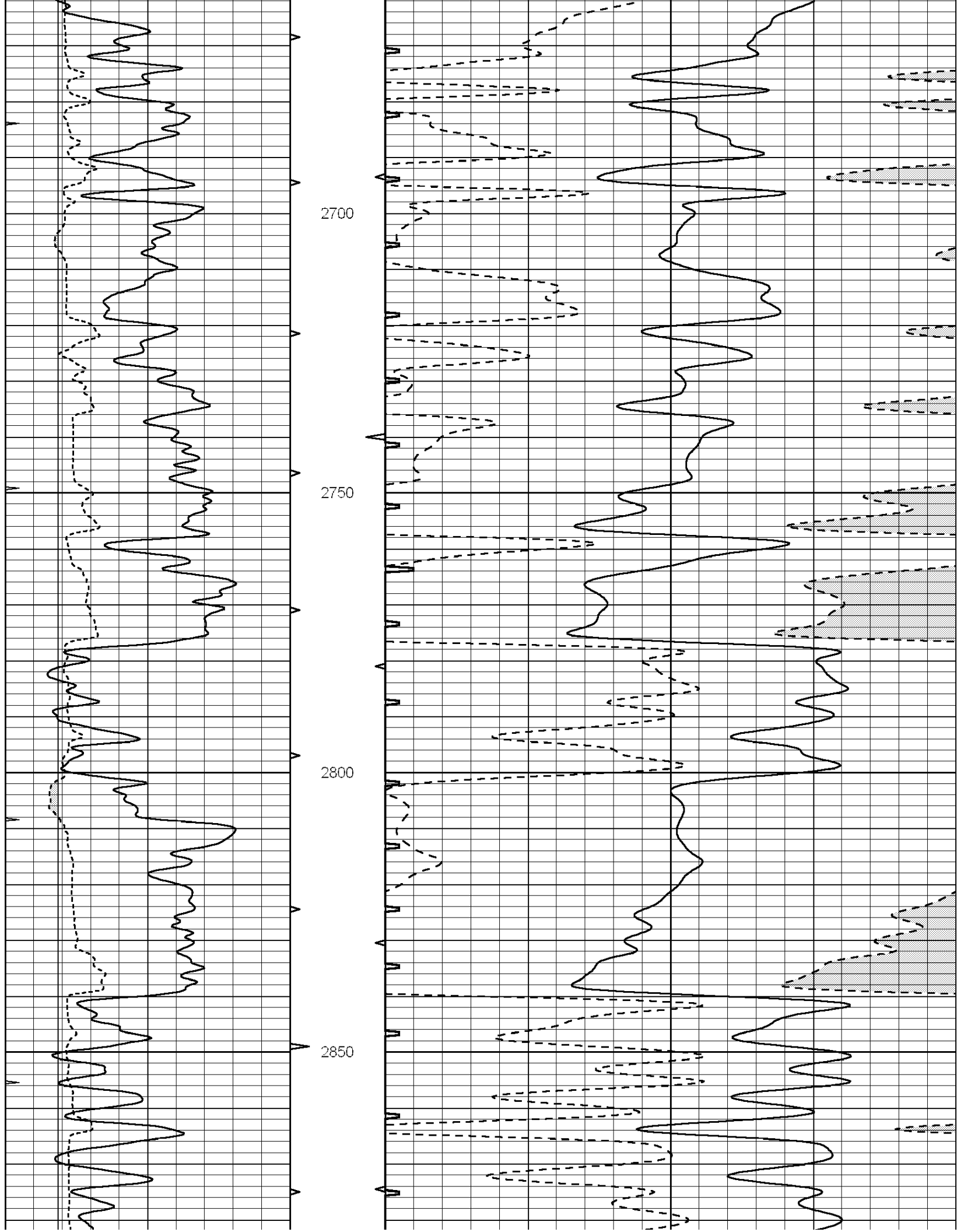


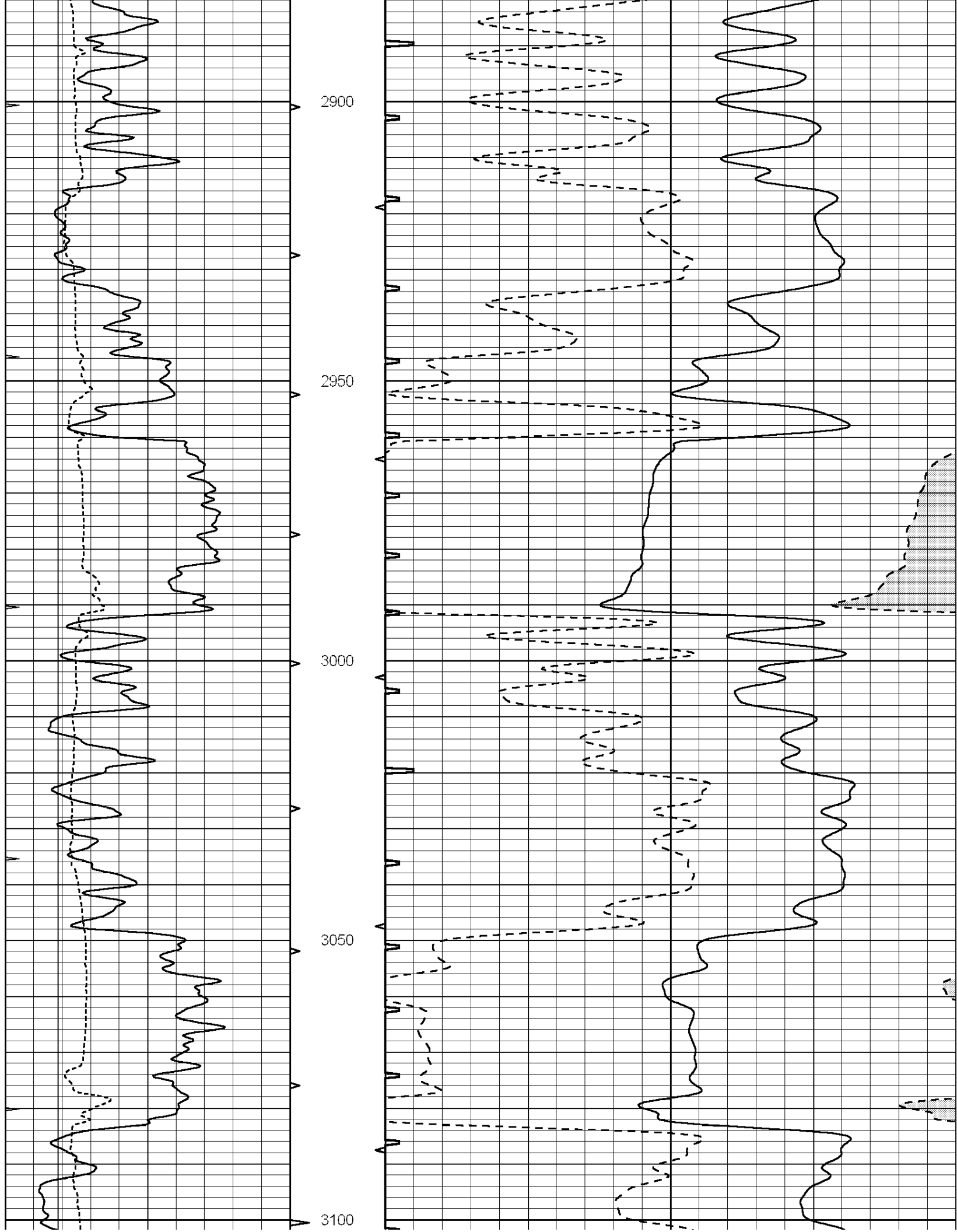


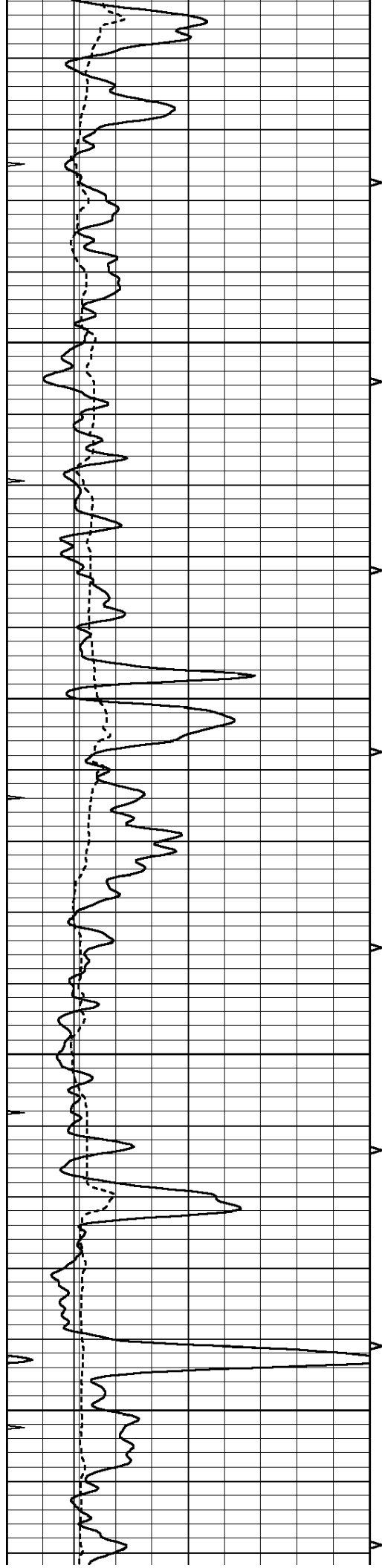










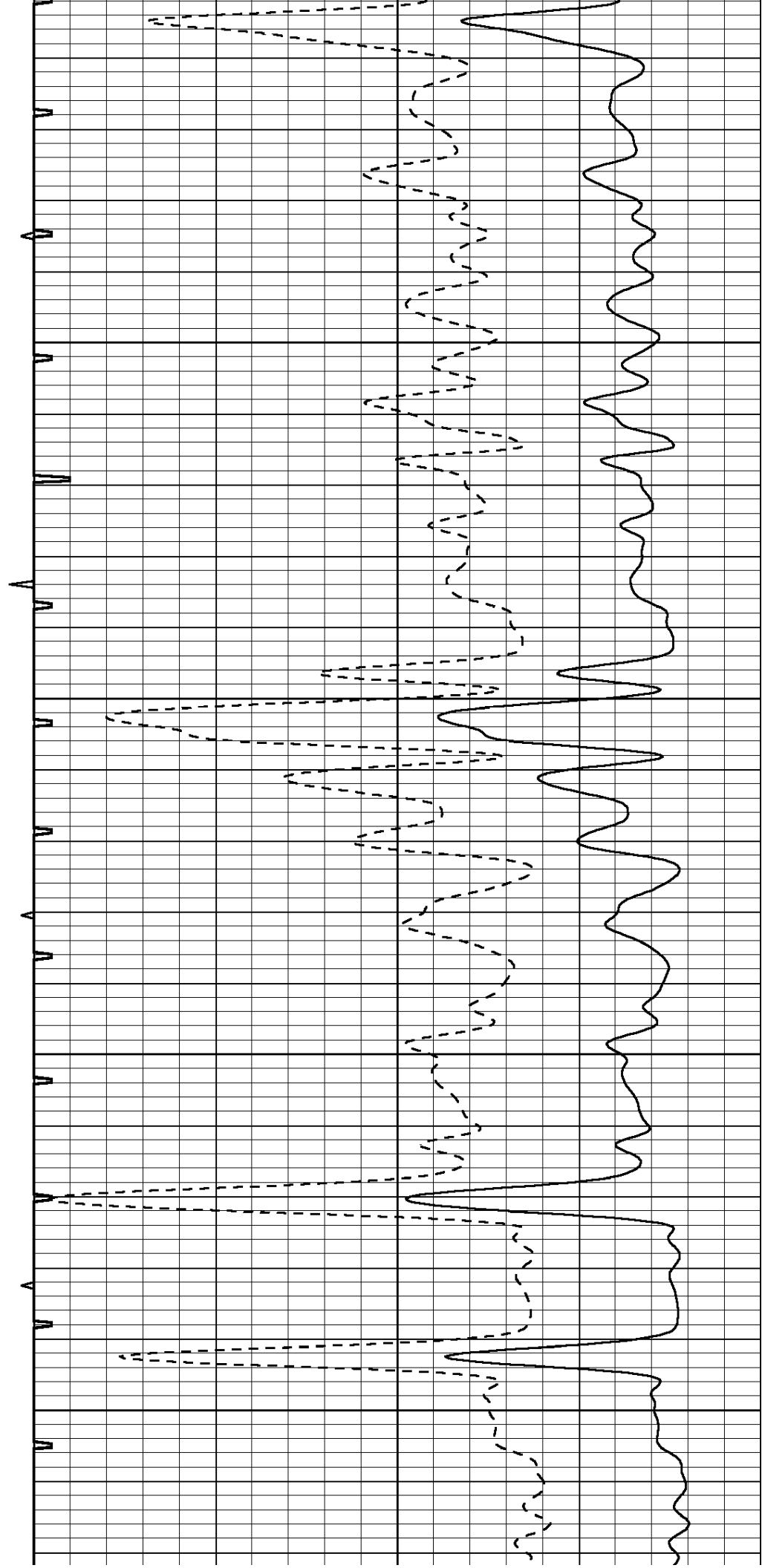


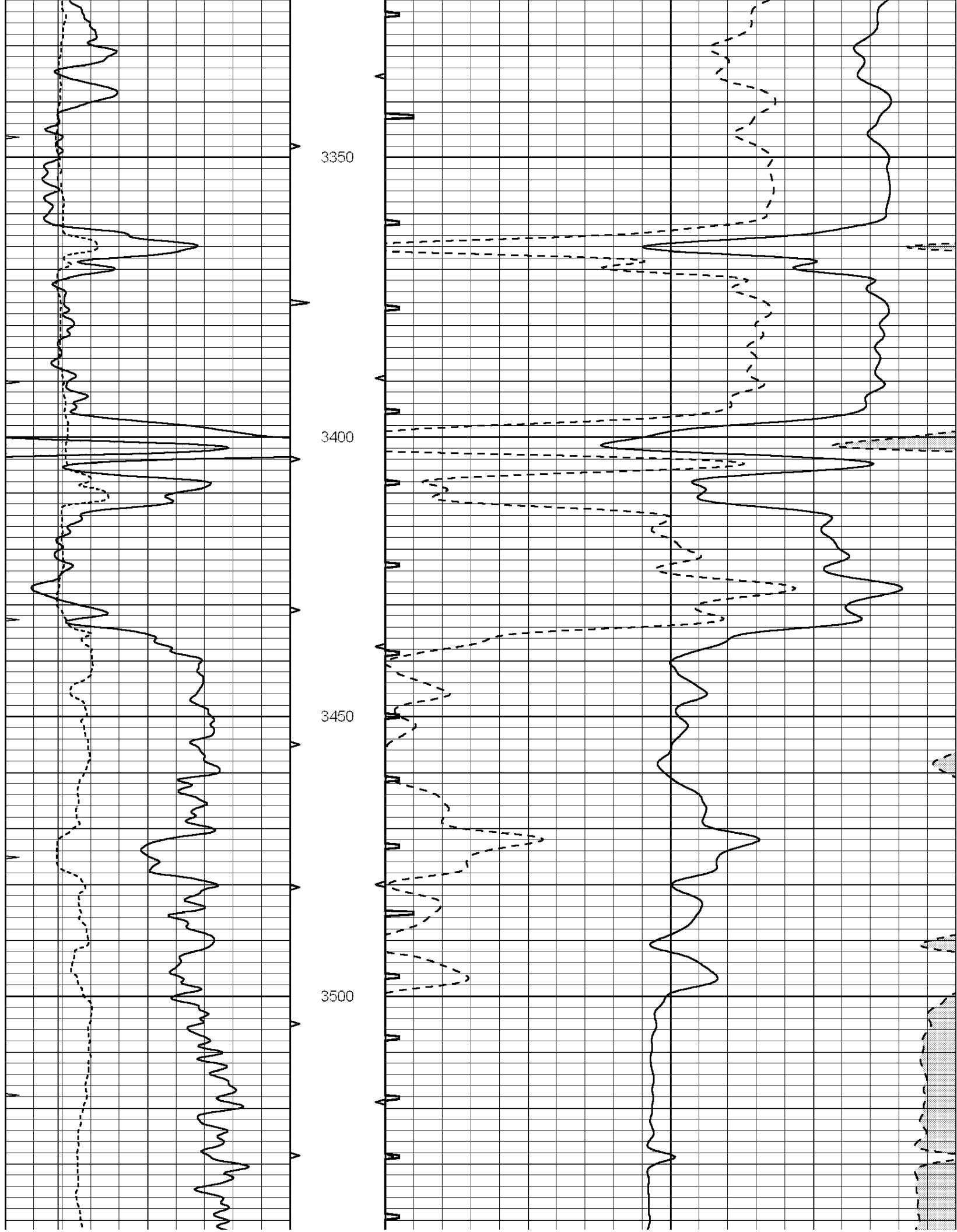
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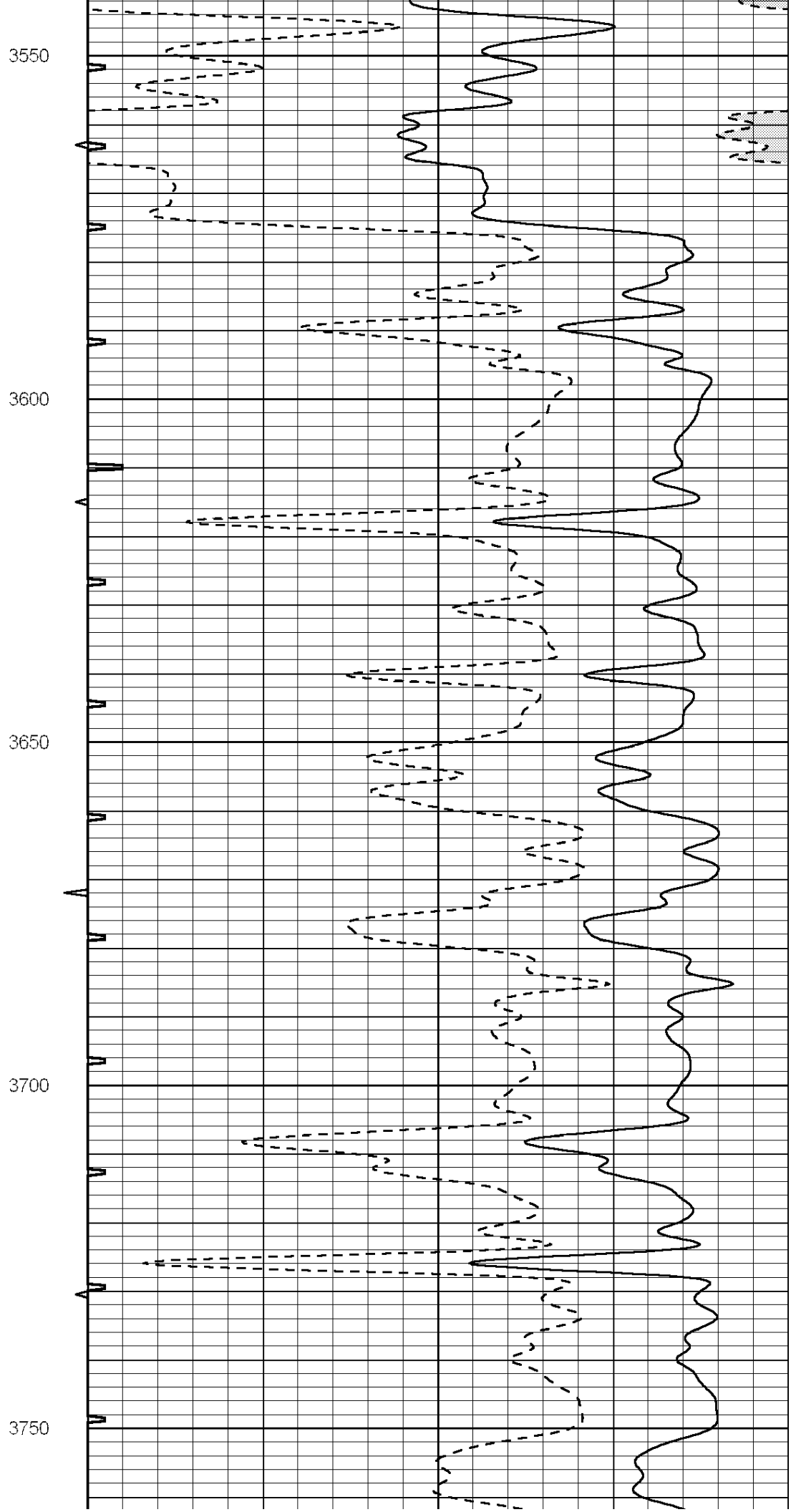
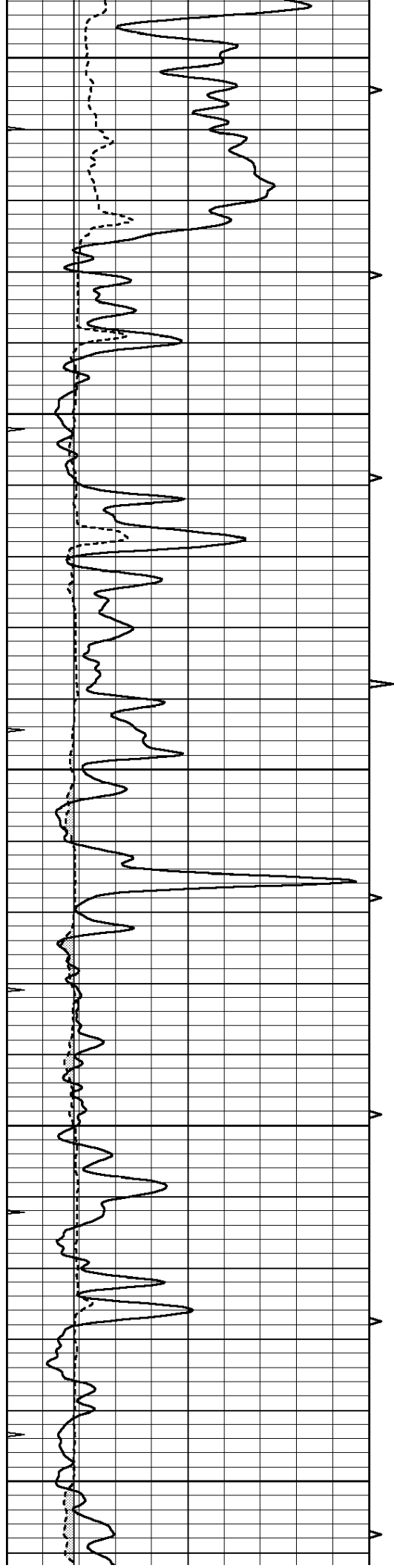
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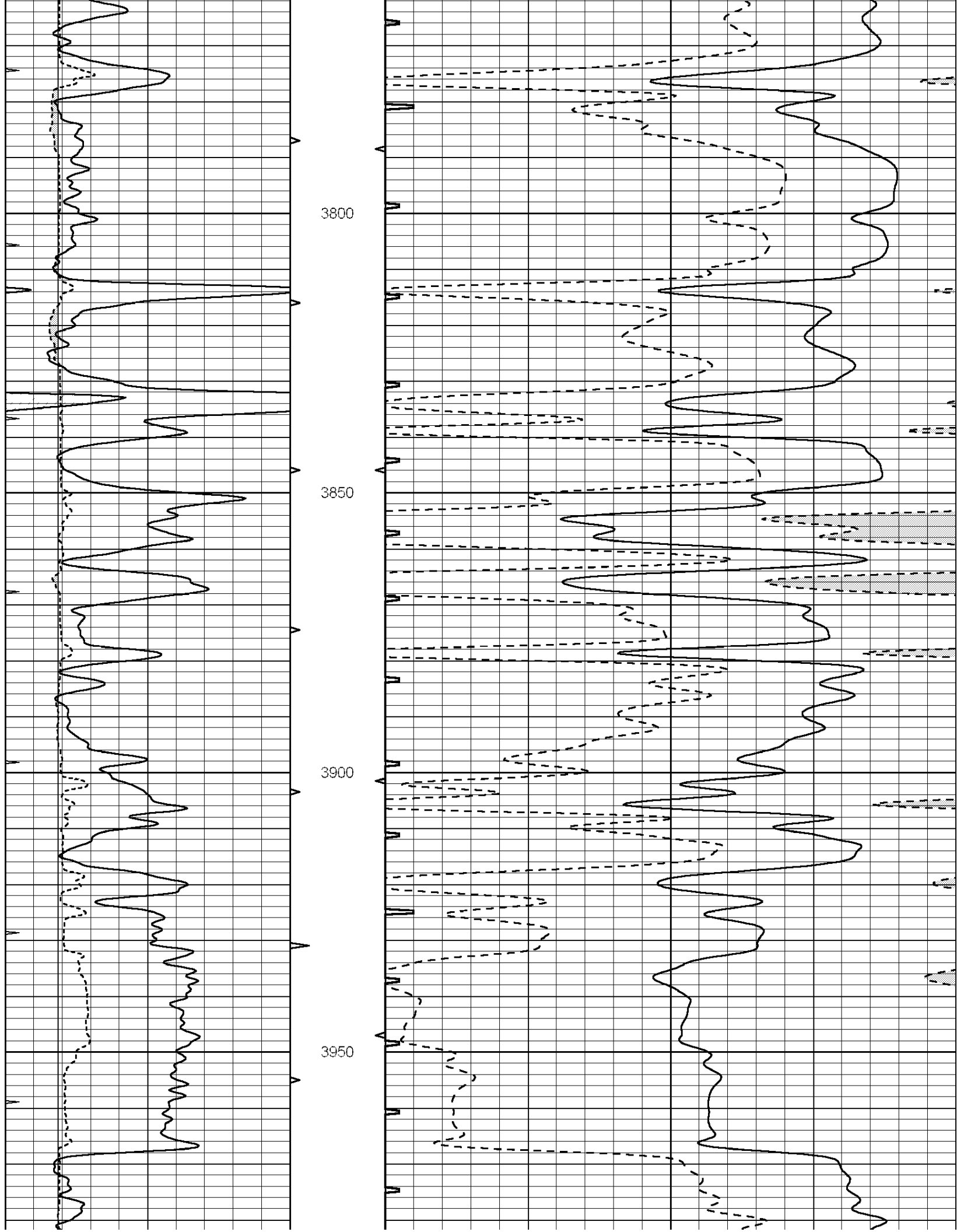
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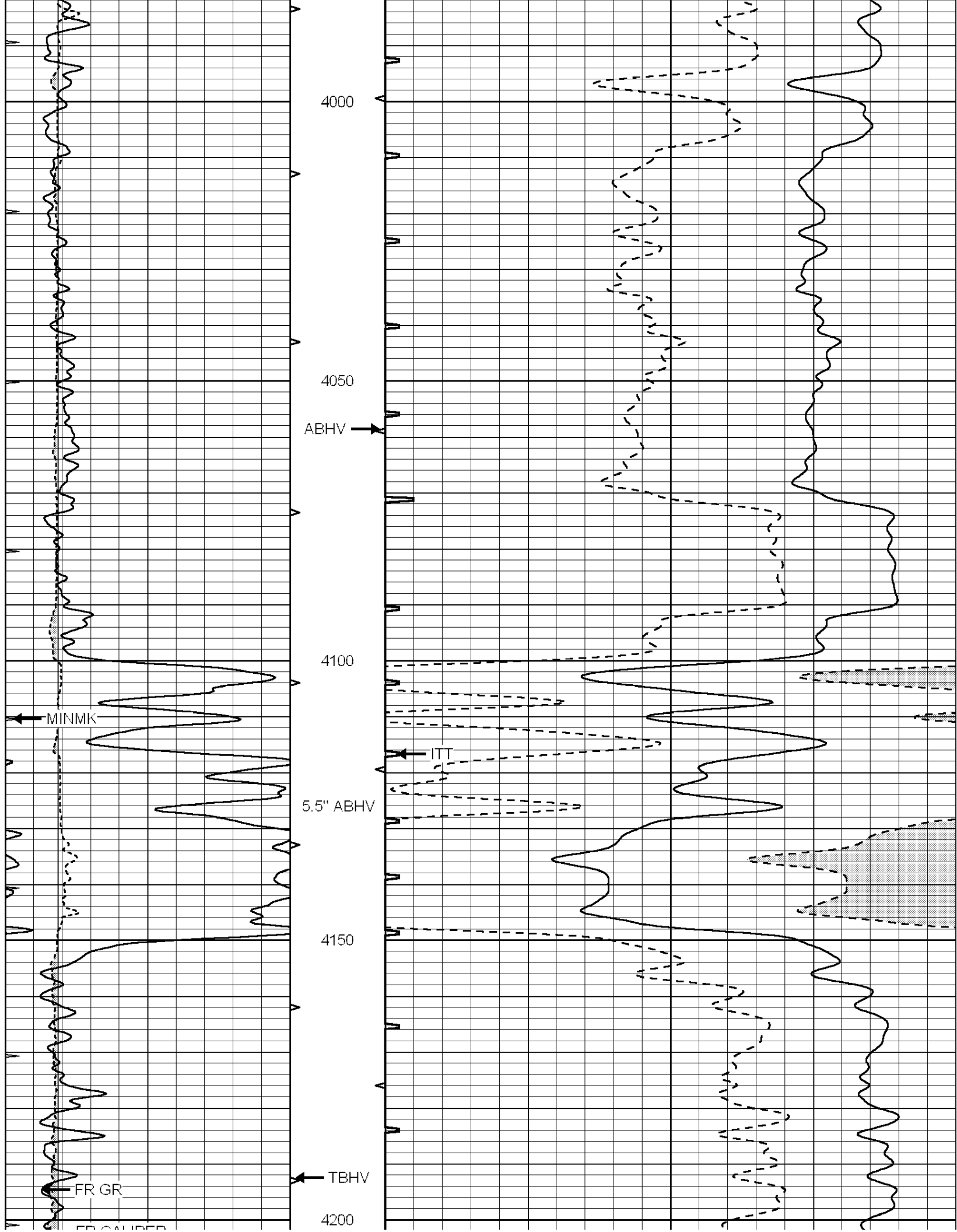
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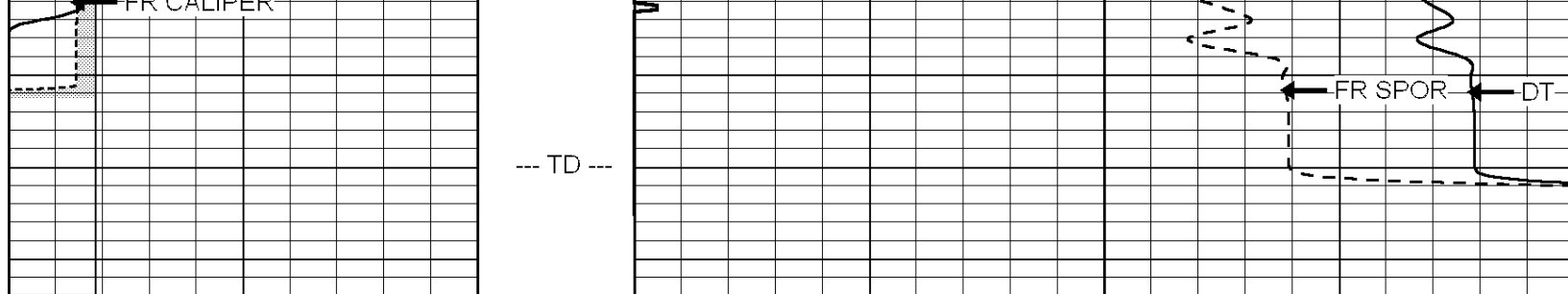












0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	MELCAL (in)	16	10 (ft3)	0 30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3)	10		

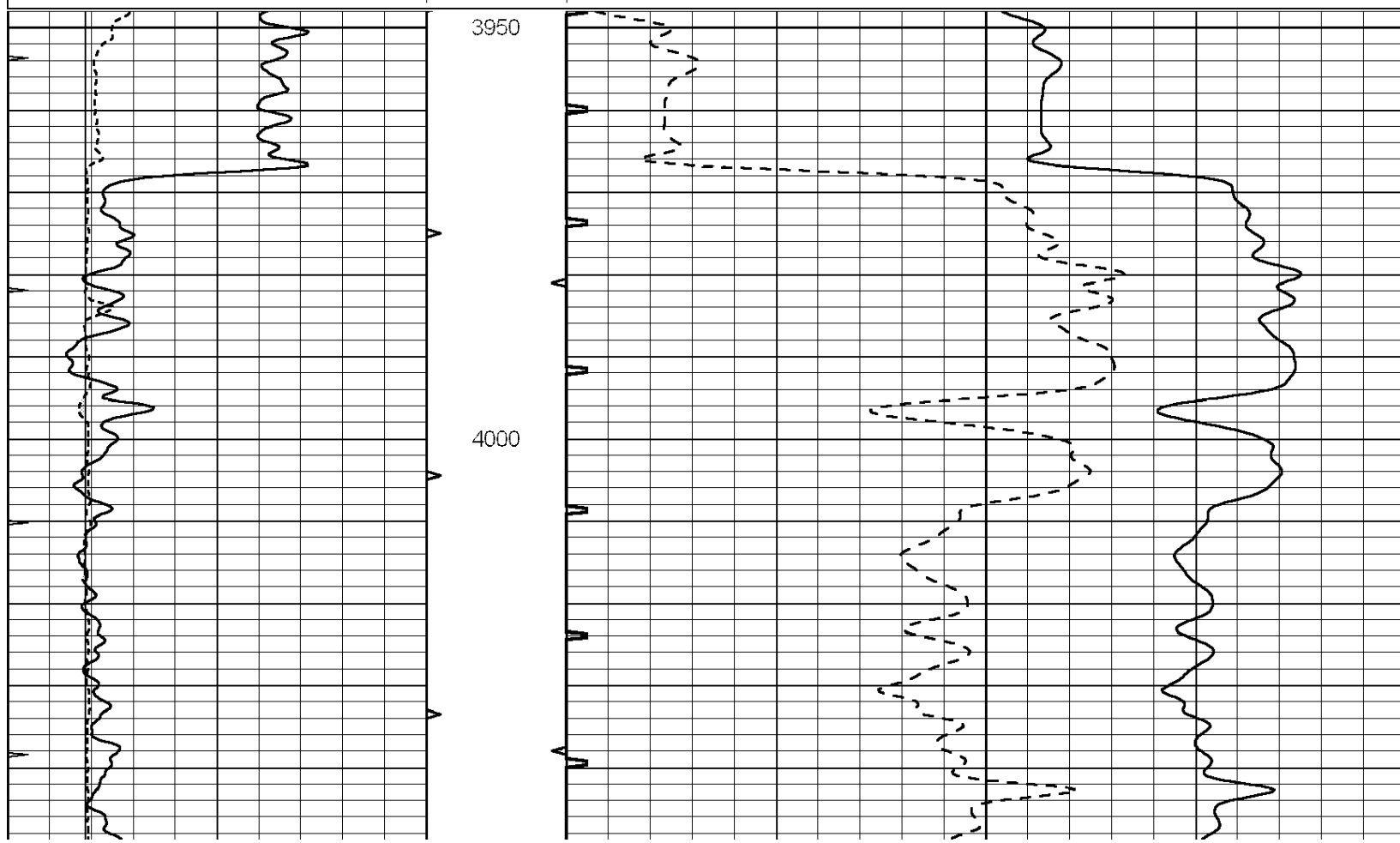


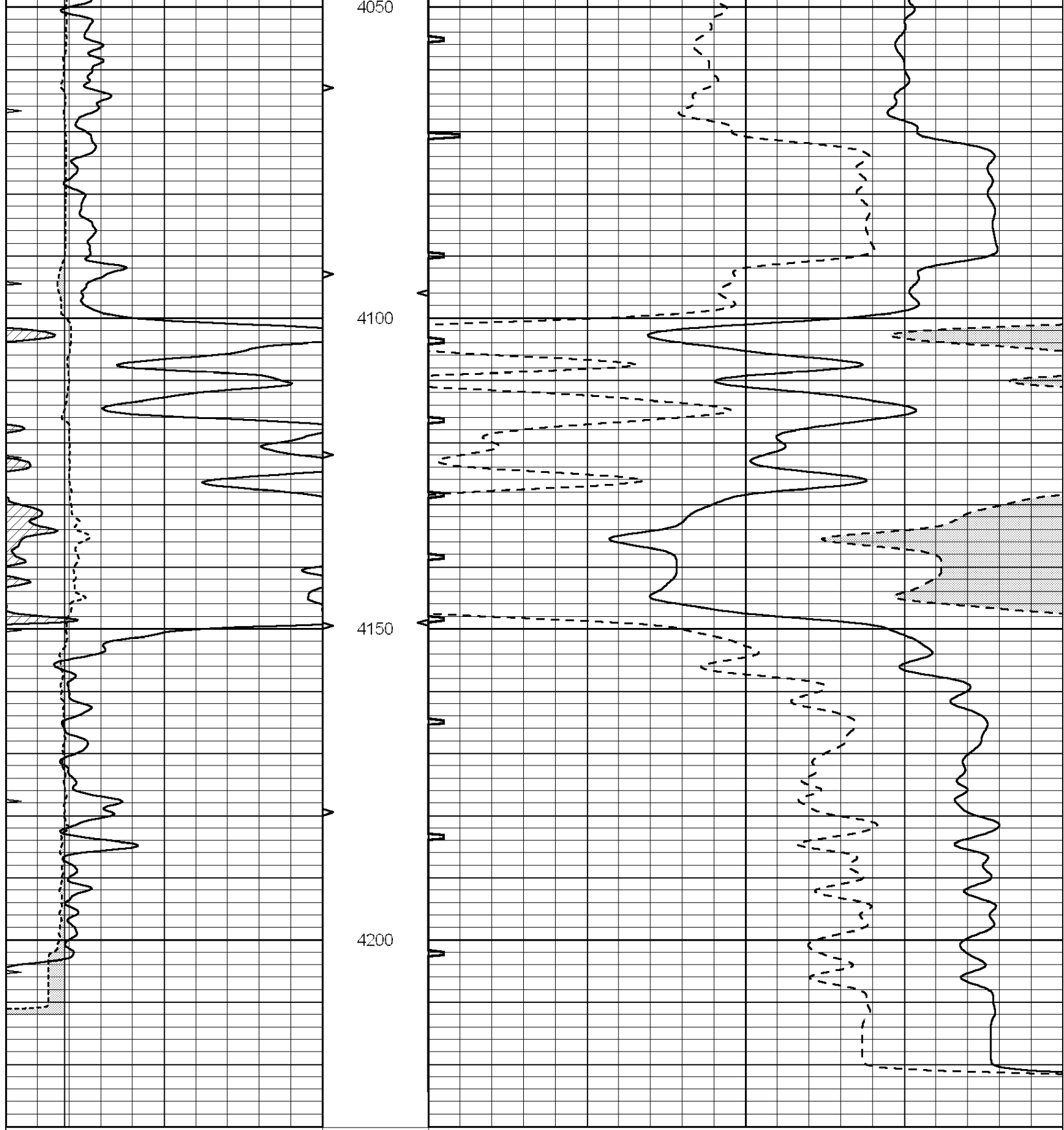
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 008793ddn.db
 Dataset Pathname: pass4
 Presentation Format: slt
 Dataset Creation: Tue Jun 19 13:21:00 2012 by Log Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	MELCAL (in)	16	10 (ft3)	0 30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3)	10		





0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	MELCAL (in)	16	10 (ft3)	0 30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3)	10		

QUALITY WELL SERVICE, INC.

5557

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410
Office / Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	6-19-12	Sec.	36	Twp.	24	Range	13	County	STAFFORD	State	K.S.	On Location	8 pm	Finish	1:15 PM
Lease	HARRISON			Well No.	36-23			Location	281-50 Hwy 35 2 1/2 EAST						
Contractor	NINNESCAH				Owner	CAEYUS KANSAS LLC									
Type Job	P+A Plug				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.										
Hole Size	17 1/4			T.D.	4150 4225										
Csg.				Depth	Charge To CAEYUS KANSAS LLC										
Tbg. Size				Depth	Street 600 17th ST STE 1600 N										
Tool				Depth	City DENVER				State CO 80202						
Cement Left in Csg.				Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.										
Meas Line				Displace	Cement Amount Ordered 200 SKS 60 140 4%										
EQUIPMENT					1/4 C.F.										
Pumptrk	6	No.	RICK			Common 120									
Bulktrk	17	No.	DETRICK			Poz. Mix 80									
Bulktrk		No.				Gel. 7									
Pickup		No.	DARON			Calcium									
JOB SERVICES & REMARKS					Hulls										
Rat Hole					Salt										
Mouse Hole					Flowseal 50										
Centralizers					Kol-Seal										
Baskets					Mud CLR 48										
D/V or Port Collar					CFL-117 or CD110 CAF 38										
1st plug 4150' 50 SKS					Sand										
60/140 40%					Handling 207										
					Mileage 20										
2nd 1790' 50 SKS					FLOAT EQUIPMENT										
					Guide Shoe										
3rd 240' 30 SKS					Centralizer										
					Baskets										
4th 60' 20 SKS					AFU Inserts										
					Float Shoe										
5th Rat 30 SKS					Latch Down										
6th MOUSE 20 SKS															
					Pumptrk Charge Rotary Plug										
					Mileage 20										
					Tax										
					Discount										
					Total Charge										
X Signature Richard R. Ransom															

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

5483

Home Office 324 Simpson St., Pratt, KS 67124

~~Todd's Cell 620-388-5422~~

Office / Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date <i>6-8-12</i>	Sec. <i>36</i>	Twp. <i>24</i>	Range <i>13</i>	County <i>Stafford</i>	State <i>Ks</i>	On Location	Finish <i>1:15</i>
Lease <i>Harrison</i>	Well No. <i>36-23</i>		Location <i>281 + 50 3 South 2 1/2 East Ninto</i>				
Contractor <i>Ninnescah Drilling</i>				Owner			
Type Job <i>Surface.</i>				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <i>12 1/4</i>	T.D. <i>770</i>			Charge To <i>Caerus Kansas LLC</i>			
Csg. <i>8 5/8</i>	Depth <i>765</i>			Street			
Tbg. Size	Depth			City			
Tool	Depth			State			
Cement Left in Csg. <i>20'</i>	Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line	Displace <i>47.6</i>			Cement Amount Ordered <i>4005x Common 2% Gel</i>			
EQUIPMENT				<i>3% cc 1/4 c.f. 11/8sd 375sx.</i>			
Pumptrk <i>8</i> No. <i>David</i>				Common <i>375</i>			
Bulktrk <i>7</i> No. <i>Mike</i>				Poz. Mix			
Bulktrk No.				Gel. <i>6</i>			
Pickup No.				Calcium <i>13</i>			
JOB SERVICES & REMARKS				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal <i>93.75</i>			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
				Sand			
<i>Ran 18 jts 8 5/8 csg.</i>				Handling <i>394</i>			
				Mileage <i>20</i>			
<i>Est. circulation with mud pump.</i>				FLOAT EQUIPMENT			
				Guide Shoe			
<i>Mix and pumped 375 sx Common</i>				Centralizer			
<i>2% Gel 3% cc. Displaced with</i>				Baskets			
<i>47.6 lbs #70. Shut in 300psi.</i>				AFU Inserts			
				Float Shoe			
				Latch Down			
<i>Cement did circulate to surface</i>				<i>8 5/8 Wooden Plug</i>			
				Pumptrk Charge <i>Surface.</i>			
				Mileage <i>20</i>			
				Tax			
				Discount			
X Signature <i>Richard A. Brady</i>				Total Charge			

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 12, 2012

Amy Lay
Caerus Kansas LLC
600 17TH ST, STE 1600 N
DENVER, CO 80202

Re: ACO1
API 15-185-23756-00-00
Harrison 36-23
SW/4 Sec.36-24S-13W
Stafford County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Amy Lay