Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1075015

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 # 34110
Name: Caerus Kansas LLC
Address 1: 600 17TH ST, STE 1600 N
Address 2:
City: DENVER State: CO Zip: 80202 + __ __ __ __
Contact Person: Amy Lay
Phone: (303) 565-4600
CONTRACTOR: License # 34233
Name: Maverick Drilling LLC
Wellsite Geologist: Jeff Lawler
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 #:

11/25/2011	11/25/2011	12/3/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23718-00-00
Spot Description:
NW SE SW SE Sec. 33 Twp. 24 S. R. 14 ☐ East ☑ West
346 Feet from ☐ North / ☑ South Line of Section
1808 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Stafford
Lease Name: Getty Well #: 33-34
Field Name:
Producing Formation: N/A
Elevation: Ground: 1971 Kelly Bushing: 1979
Total Vertical Depth: 4320 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 262 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: 0 ppm Fluid volume: 240 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Paul's Oilfield Services
Lease Name: James Trust #2A License #: 31085
Quarter NW Sec. 21 Twp. 23 S. R. 16 ☐ East ☑ West
County: Pawnee Permit #: 28849

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: 02/23/2012
☑ **Confidential Release Date:** 02/22/2014
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 02/24/2012

[redacted] 1075015

Operator Name: Caerus Kansas LLC Lease Name: Getty Well #: 33-34

Sec. 33 Twp. 24 S. R. 14 ☐ East ☑ West County: Stafford

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Dual Induction, Microlog, Porosity, Sonic

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Stone Corral	875	
Heebner	3500	
Kinderhook	4063	
Arbuckle	4263	

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	24	262	Common 3%	200	2% Gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	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: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Scale 1:240 Imperial

Well Name:	GETTY 33-34		
Surface Location:	NW SE SW SE 33-24S-14W		
Bottom Location:			
API:	15-185-23718		
License Number:	34110		
Spud Date:	11/25/2011	Time:	3:34 PM
Region:	STAFFORD		
Drilling Completed:	2/2/2011	Time:	5:50 PM
Surface Coordinates:	346' FSL & 1808' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	1970.00ft		
K.B. Elevation:	1979.00ft		
Logged Interval:	0.00ft	To:	0.00ft
Total Depth:	0.00ft		
Formation:			
Drilling Fluid Type:	CHEMICAL/FRESH WATER GEL		

OPERATOR

Company:	CAERUS KANSAS LLC		
Address:	P. O. BOX 1378 HAYS, KS 67601		
Contact Geologist:	BRIAN KARLIN		
Contact Phone Nbr:	(785) 623-3290		
Well Name:	GETTY 33-34		
Location:	NW SE SW SE 33-24S-14W	API:	15-185-23718
Pool:		Field:	UNNAMED
State:	KANSAS	Country:	USA

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:	-98.8634250	Latitude:	37.9136140
N/S Co-ord:	346' FSL		
E/W Co-ord:	1808' FEL		

LOGGED BY

Company:	SOLUTION CONSULTING		
Address:	108 W 35TH HAYS, KS 67601		
Phone Nbr:	(785) 259-3737		
Logged By:	Geologist	Name:	JEFF LAWLER

CONTRACTOR

Contractor:	MAVERIC DRILLING LLC
Rig #:	108
Rig Type:	MUD ROTARY

Spud Date:	11/25/2011	Time:	3:34 PM
TD Date:	2/2/2011	Time:	5:50 PM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	1979.00ft	Ground Elevation:	1970.00ft
K.B. to Ground:	9.00ft		

NOTES

LKC ' H '

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC

P.O.Box 1378
Hays Ks.67601

ATTN: Jeff Lawler

33-24s-143w Stafford Ks

Getty #33-34

Job Ticket: 44083 **DST#: 1**

Test Start: 2011.11.29 @ 09:08:12

GENERAL INFORMATION:

Formation: **LKC H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:01:57
Time Test Ended: 16:04:57

Test Type: Conventional Bottom Hole (Initial)
Tester: Gary Pevoteaux
Unit No: 56

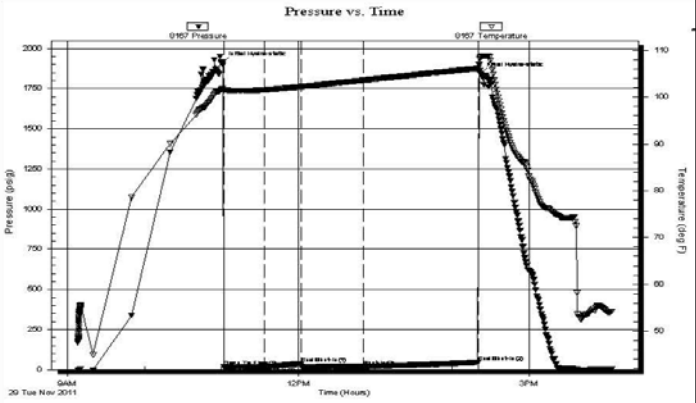
Interval: 3818.00 ft (KB) To 3845.00 ft (KB) (TVD)
Total Depth: 3845.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1979.00 ft (KB)
1970.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8167 **Inside**
Press@RunDepth: 20.38 psig @ 3819.00 ft (KB)
Start Date: 2011.11.29 End Date: 2011.11.29
Start Time: 09:08:13 End Time: 16:04:57

Capacity: 8000.00 psig
Last Calib.: 2011.11.29
Time On Btm: 2011.11.29 @ 11:00:12
Time Off Btm: 2011.11.29 @ 14:22:12

TEST COMMENT: IF:Weak blow . 3/4" decreasing.
ISI:No blow .
FF:Weak blow . 1/2" decreasing.
FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1910.39	101.60	Initial Hydro-static
2	16.69	101.36	Open To Flow (1)
34	19.03	101.51	Shut-In(1)
62	38.53	102.22	End Shut-In(1)
63	19.83	102.22	Open To Flow (2)
111	20.38	103.59	Shut-In(2)
200	46.64	106.07	End Shut-In(2)
202	1844.68	108.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 2%o 98%m Clean oil @ tool top	0.14

Gas Rates

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

Trilobite Testing, Inc Ref. No: 44083 Printed: 2011.11.29 @ 19:36:01

DST #2 MISSISSIPPIAN

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC

P.O.Box 1378
Hays Ks.67601

ATTN: Jeff Lawler

33-24s-143w Stafford Ks

Getty #33-34

Job Ticket: 44084 **DST#: 2**

Test Start: 2011.11.30 @ 14:40:45

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:24:30
Time Test Ended: 22:57:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Gary Pevoteaux
Unit No: 56

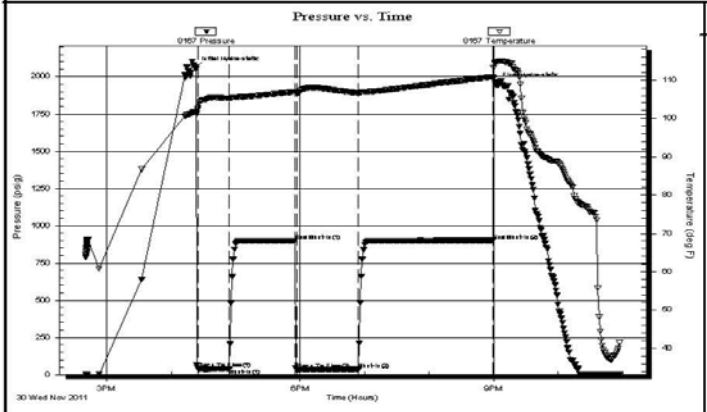
Interval: 4058.00 ft (KB) To 4102.00 ft (KB) (TVD)
Total Depth: 4102.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1979.00 ft (KB)
1970.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8167 **Inside**
Press@RunDepth: 37.08 psig @ 4059.00 ft (KB)
Start Date: 2011.11.30 End Date: 2011.11.30
Start Time: 14:40:46 End Time: 22:57:00

Capacity: 8000.00 psig
Last Calib.: 2011.11.30
Time On Btm: 2011.11.30 @ 16:22:00
Time Off Btm: 2011.11.30 @ 21:01:15

TEST COMMENT: IF:Strong blow . B.O.B. in 2 secs. GTS in 8 mins.(see gas flow report)
ISI:No blow .
FF:Strong blow . (see gas flow report)
FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.79	101.66	Initial Hydro-static
3	43.30	102.28	Open To Flow (1)
33	40.58	105.25	Shut-In(1)
94	900.89	106.97	End Shut-In(1)
95	33.34	106.82	Open To Flow (2)
153	37.08	106.69	Shut-In(2)
277	901.17	110.79	End Shut-In(2)
280	1949.38	114.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drlg.mud	0.56

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	2.50	114.00
Last Gas Rate	0.50	5.00	130.87
Max. Gas Rate	0.50	5.50	134.24

DST #3 VIOLA

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC

P.O.Box 1378
Hays Ks.67601

ATTN: Jeff Lawler

33-24s-143w Stafford Ks

Getty #33-34

Job Ticket: 44085 **DST#: 3**

Test Start: 2011.12.01 @ 12:53:40

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:33:40
Time Test Ended: 20:17:40

Test Type: Conventional Bottom Hole (Reset)
Tester: Gary Pevoteaux
Unit No: 56

Interval: 4183.00 ft (KB) To 4217.00 ft (KB) (TVD)
Total Depth: 4217.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

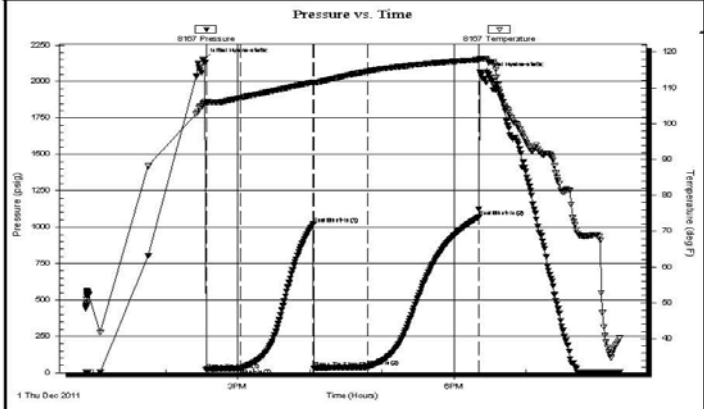
Reference Elevations: 1979.00 ft (KB)
1970.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8167 **Inside**

Press@RunDepth: 40.04 psig @ 4184.00 ft (KB)
Start Date: 2011.12.01 End Date: 2011.12.01
Start Time: 12:53:41 End Time: 20:17:40

Capacity: 8000.00 psig
Last Calib.: 2011.12.01
Time On Btm: 2011.12.01 @ 14:31:25
Time Off Btm: 2011.12.01 @ 18:22:25

TEST COMMENT: IF:Weak to fair blow . 1 - 4 1/2".
ISI:No blow .
FF:Weak blow . Increase to 3 1/2".
FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.80	105.57	Initial Hydro-static
3	21.64	105.87	Open To Flow (1)
31	32.46	107.20	Shut-In(1)
92	1021.94	111.63	End Shut-In(1)
92	28.40	111.45	Open To Flow (2)
137	40.04	114.62	Shut-In(2)
229	1067.87	117.86	End Shut-In(2)
231	2056.31	118.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	SOCM <1%o 98+%m	0.63
0.00	20 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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

Trilobite Testing, Inc Ref. No: 44085 Printed: 2011.12.01 @ 20:57:46

ROCK TYPES

Cht
Cht vari
Lmst fw7>
shale, gry
Carbon Sh
Shcol

ACCESSORIES

STRINGER
Chert
green shale
red shale

OTHER SYMBOLS

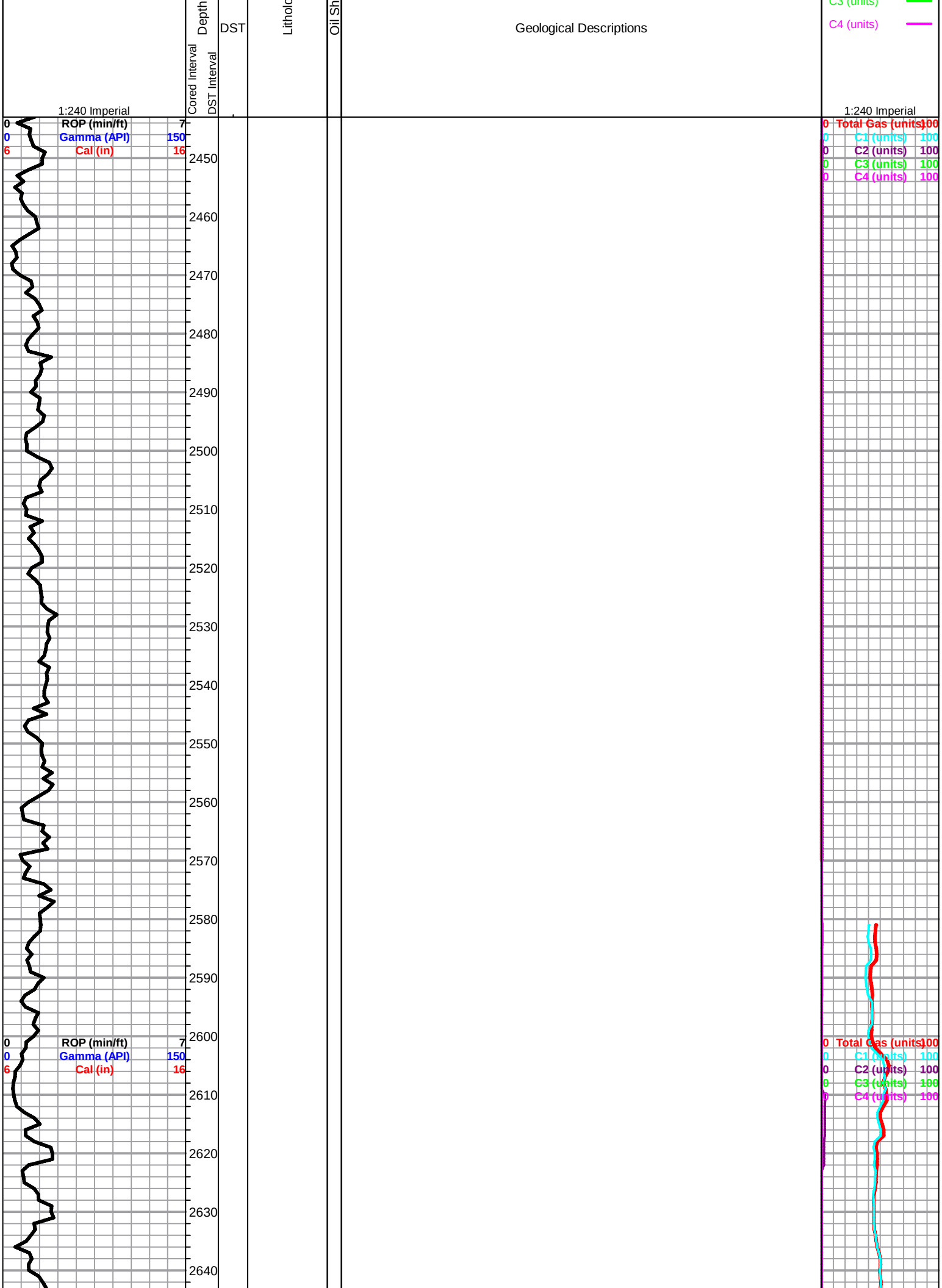
DST
DST Int
DST alt
Core

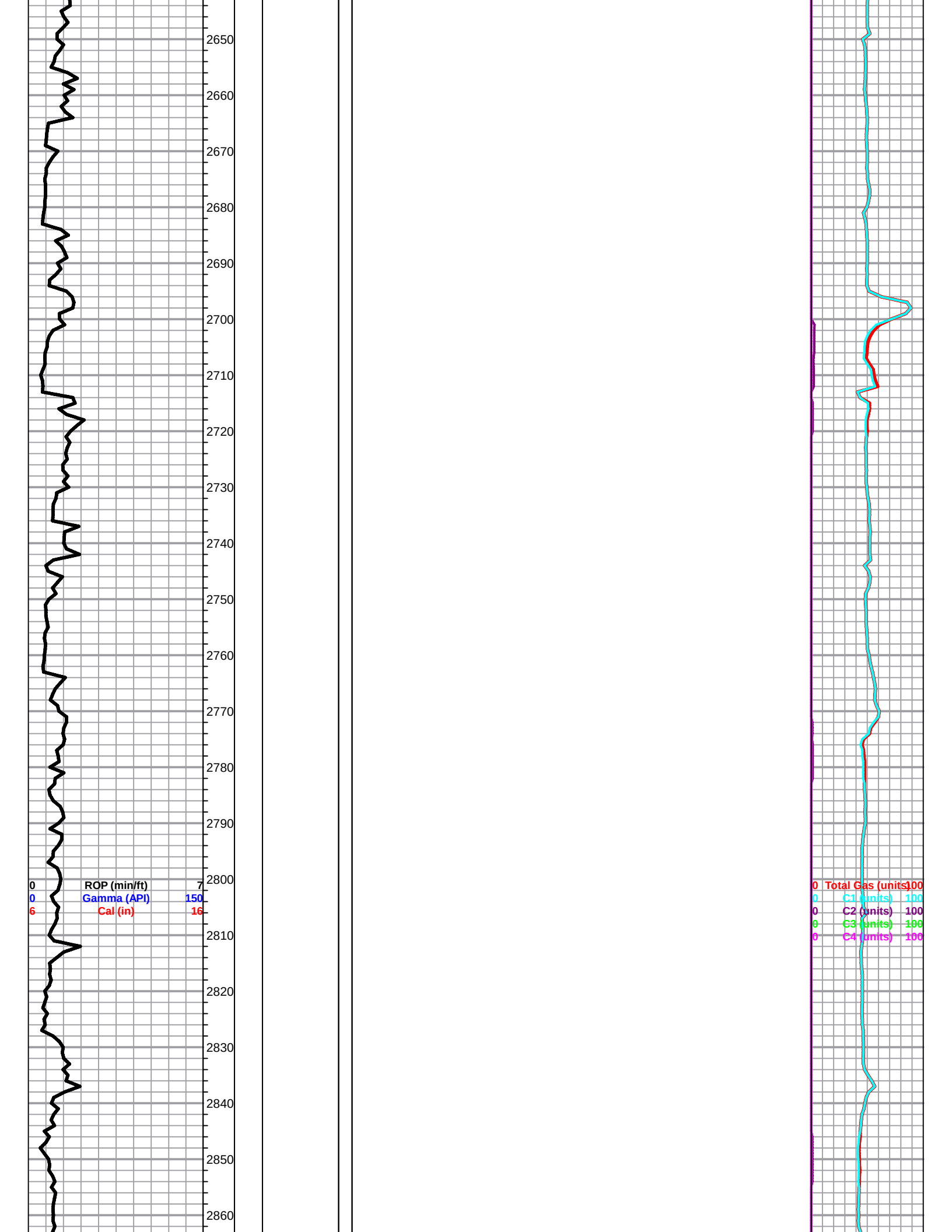
Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #1
ROP (min/ft)
Gamma (API)
Cal (in)

Intervals

TG, C1 - C5
Total Gas (units)
C1 (units)
C2 (units)


Depth
Cored Interval
DST Interval
DST
Lithology
Oil Sh
Geological Descriptions
C3 (units)
C4 (units)
1:240 Imperial
0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
2450
2460
2470
2480
2490
2500
2510
2520
2530
2540
2550
2560
2570
2580
2590
2600
2610
2620
2630
2640


2650
2660
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2720
2730
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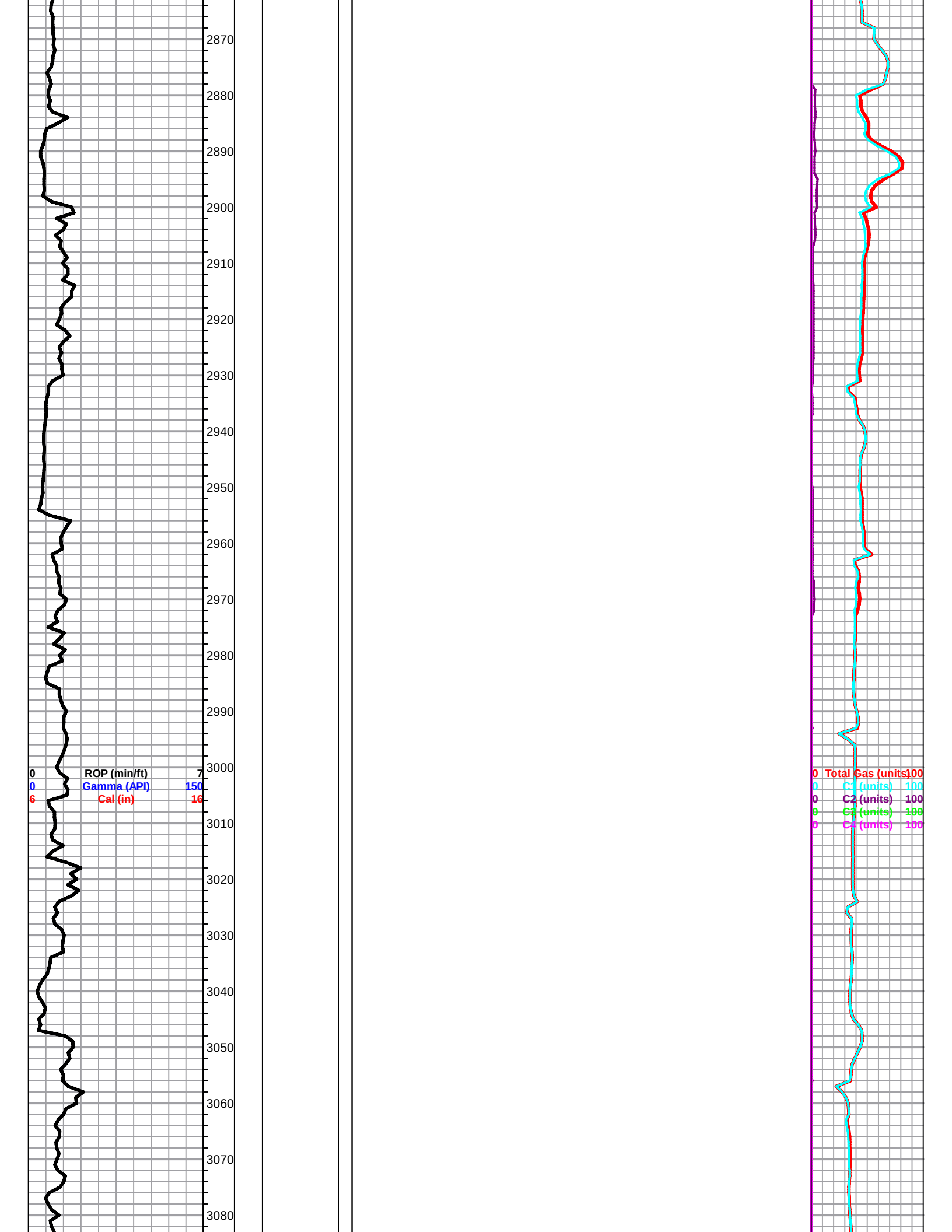
2750
2760
2770
2780
2790
2800
2810
2820
2830
2840
2850
2860
0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100


2870
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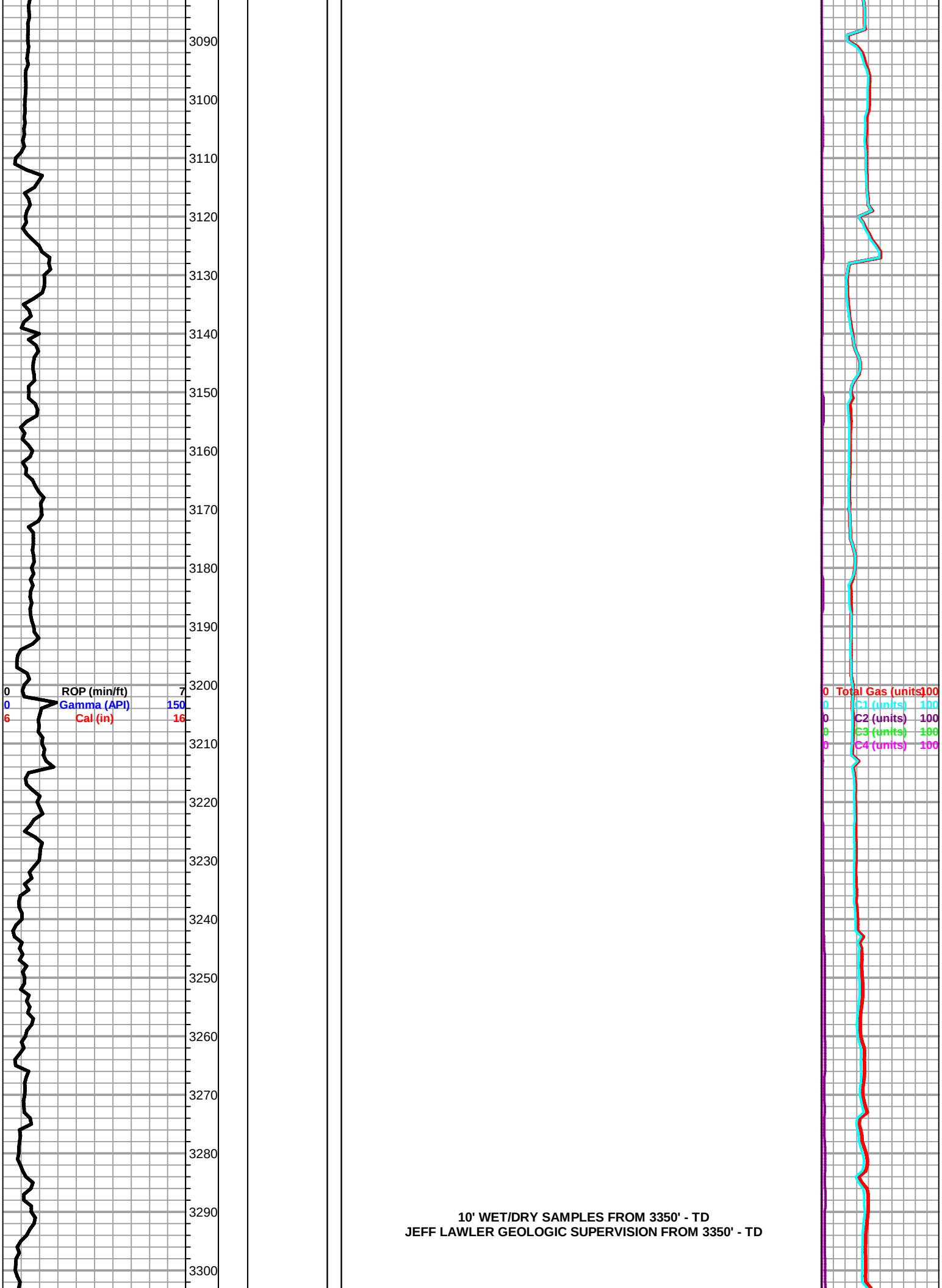
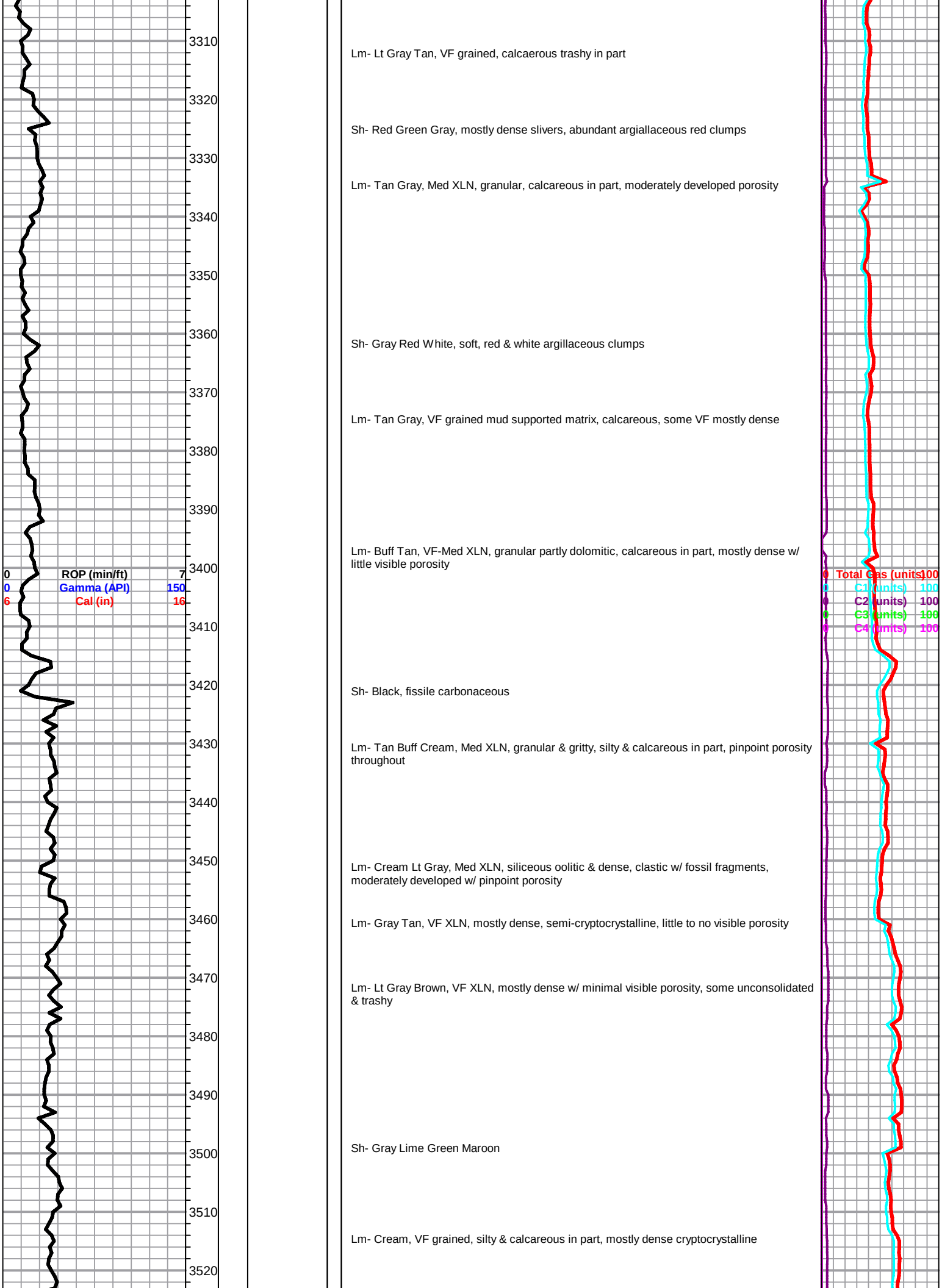
2990
3000
3010
3020
3030
3040
3050
3060
3070
3080
0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100



10' WET/DRY SAMPLES FROM 3350' - TD
JEFF LAWLER GEOLOGIC SUPERVISION FROM 3350' - TD


0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16
3310
3320
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3380
3390
3400
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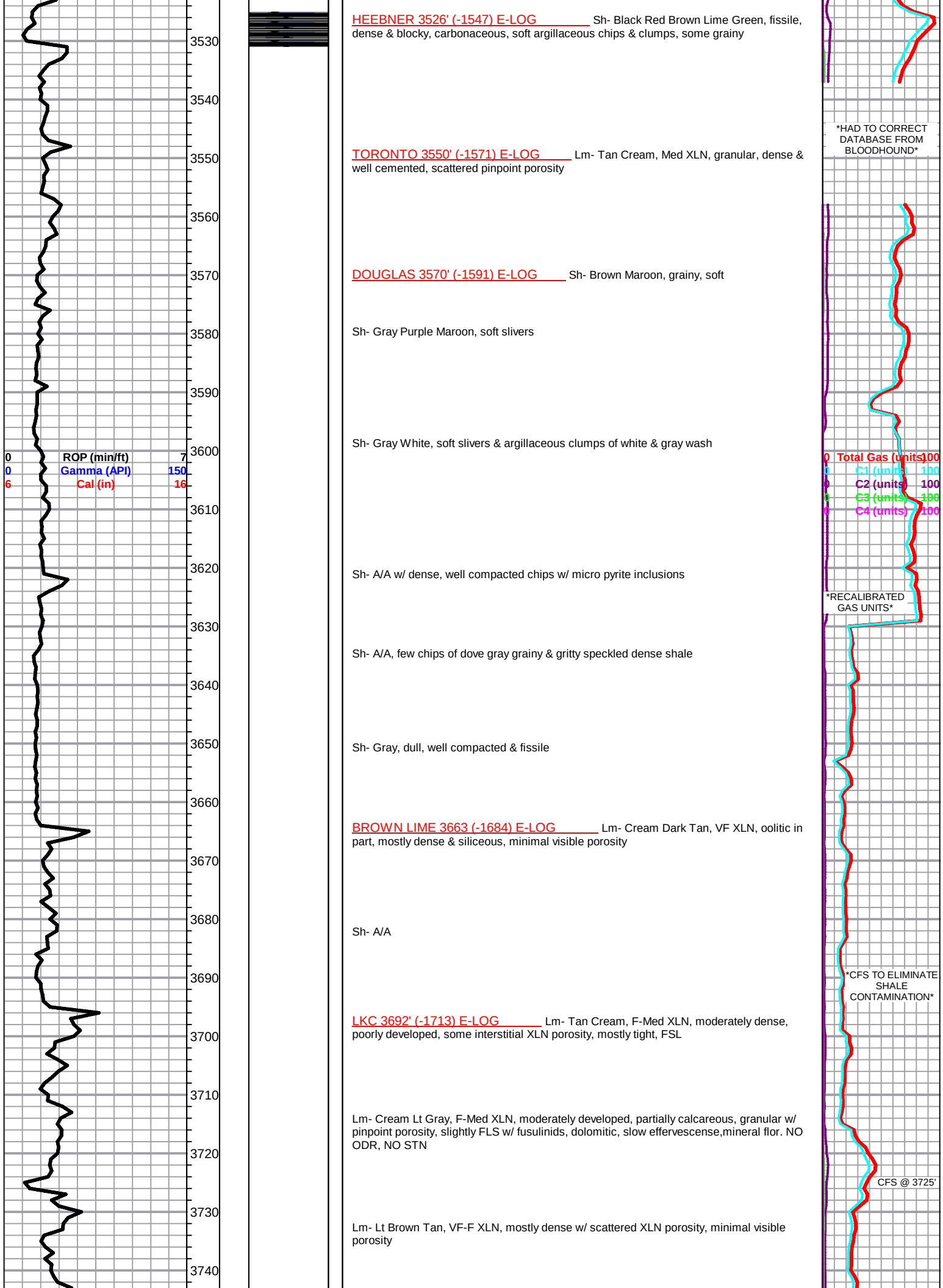
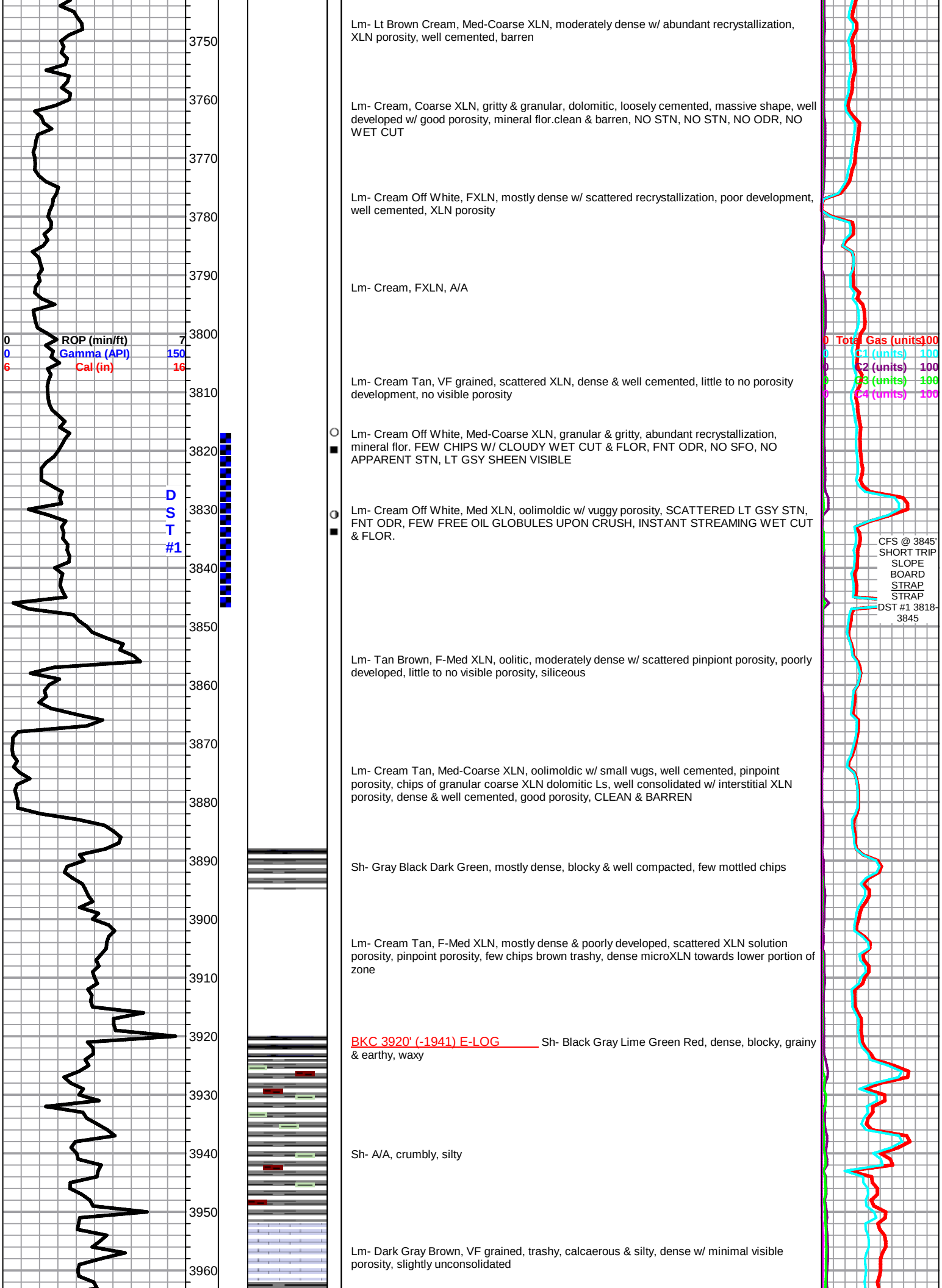
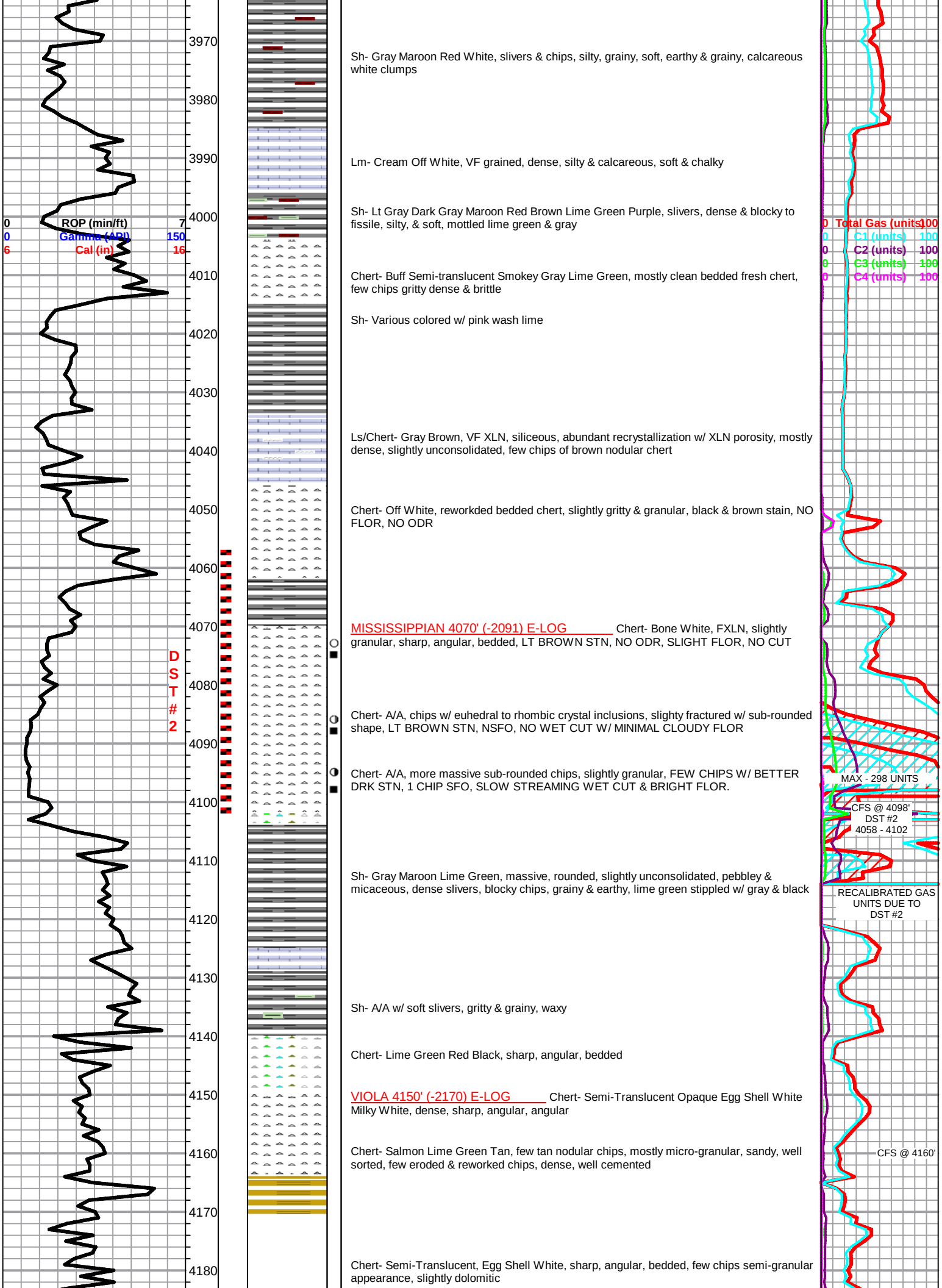
3420
3430
3440
3450
3460
3470
3480
3490
3500
3510
3520
Lm- Lt Gray Tan, VF grained, calcaerous trashy in part
Sh- Red Green Gray, mostly dense slivers, abundant argiallaceous red clumps
Lm- Tan Gray, Med XLN, granular, calcareous in part, moderately developed porosity
Sh- Gray Red White, soft, red & white argillaceous clumps
Lm- Tan Gray, VF grained mud supported matrix, calcareous, some VF mostly dense
Lm- Buff Tan, VF-Med XLN, granular partly dolomitic, calcareous in part, mostly dense w/ little visible porosity
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
Sh- Black, fissile carbonaceous
Lm- Tan Buff Cream, Med XLN, granular & gritty, silty & calcareous in part, pinpoint porosity throughout
Lm- Cream Lt Gray, Med XLN, siliceous oolitic & dense, clastic w/ fossil fragments, moderately developed w/ pinpoint porosity
Lm- Gray Tan, VF XLN, mostly dense, semi-cryptocrystalline, little to no visible porosity
Lm- Lt Gray Brown, VF XLN, mostly dense w/ minimal visible porosity, some unconsolidated & trashy
Sh- Gray Lime Green Maroon
Lm- Cream, VF grained, silty & calcareous in part, mostly dense cryptocrystalline


0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
3530
3540
3550
3560
3570
3580
3590
3600
3610
3620
3630
3640
3650
3660
3670
3680
3690
3700
3710
3720
3730
3740
HEEBNER 3526' (-1547) E-LOG Sh- Black Red Brown Lime Green, fissile, dense & blocky, carbonaceous, soft argillaceous chips & clumps, some grainy
HAD TO CORRECT DATABASE FROM BLOODHOUND
TORONTO 3550' (-1571) E-LOG Lm- Tan Cream, Med XLN, granular, dense & well cemented, scattered pinpoint porosity
DOUGLAS 3570' (-1591) E-LOG Sh- Brown Maroon, grainy, soft
Sh- Gray Purple Maroon, soft slivers
Sh- Gray White, soft slivers & argillaceous clumps of white & gray wash
Sh- A/A w/ dense, well compacted chips w/ micro pyrite inclusions
RECALIBRATED GAS UNITS
Sh- A/A, few chips of dove gray grainy & gritty speckled dense shale
Sh- Gray, dull, well compacted & fissile
BROWN LIME 3663 (-1684) E-LOG Lm- Cream Dark Tan, VF XLN, oolitic in part, mostly dense & siliceous, minimal visible porosity
Sh- A/A
CFS TO ELIMINATE SHALE CONTAMINATION
LKC 3692' (-1713) E-LOG Lm- Tan Cream, F-Med XLN, moderately dense, poorly developed, some interstitial XLN porosity, mostly tight, FSL
Lm- Cream Lt Gray, F-Med XLN, moderately developed, partially calcareous, granular w/ pinpoint porosity, slightly FLS w/ fusulinids, dolomitic, slow effervescense,mineral flor. NO ODR, NO STN
CFS @ 3725'
Lm- Lt Brown Tan, VF-F XLN, mostly dense w/ scattered XLN porosity, minimal visible porosity


0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
3750
3760
3770
3780
3790
3800
3810
3820
3830
3840
3850
3860
3870
3880
3890
3900
3910
3920
3930
3940
3950
3960
DST #1
CFS @ 3845'
SHORT TRIP
SLOPE
BOARD
STRAP
STRAP
DST #1 3818-3845
Lm- Lt Brown Cream, Med-Coarse XLN, moderately dense w/ abundant recrystallization, XLN porosity, well cemented, barren
Lm- Cream, Coarse XLN, gritty & granular, dolomitic, loosely cemented, massive shape, well developed w/ good porosity, mineral flor.clean & barren, NO STN, NO STN, NO ODR, NO WET CUT
Lm- Cream Off White, FXLN, mostly dense w/ scattered recrystallization, poor development, well cemented, XLN porosity
Lm- Cream, FXLN, A/A
Lm- Cream Tan, VF grained, scattered XLN, dense & well cemented, little to no porosity development, no visible porosity
Lm- Cream Off White, Med-Coarse XLN, granular & gritty, abundant recrystallization, mineral flor. FEW CHIPS W/ CLOUDY WET CUT & FLOR, FNT ODR, NO SFO, NO APPARENT STN, LT GSY SHEEN VISIBLE
Lm- Cream Off White, Med XLN, oolimoldic w/ vuggy porosity, SCATTERED LT GSY STN, FNT ODR, FEW FREE OIL GLOBULES UPON CRUSH, INSTANT STREAMING WET CUT & FLOR.
Lm- Tan Brown, F-Med XLN, oolitic, moderately dense w/ scattered pinpiont porosity, poorly developed, little to no visible porosity, siliceous
Lm- Cream Tan, Med-Coarse XLN, oolimoldic w/ small vugs, well cemented, pinpoint porosity, chips of granular coarse XLN dolomitic Ls, well consolidated w/ interstitial XLN porosity, dense & well cemented, good porosity, CLEAN & BARREN
Sh- Gray Black Dark Green, mostly dense, blocky & well compacted, few mottled chips
Lm- Cream Tan, F-Med XLN, mostly dense & poorly developed, scattered XLN solution porosity, pinpoint porosity, few chips brown trashy, dense microXLN towards lower portion of zone
BKC 3920' (-1941) E-LOG
Sh- Black Gray Lime Green Red, dense, blocky, grainy & earthy, waxy
Sh- A/A, crumbly, silty
Lm- Dark Gray Brown, VF grained, trashy, calcaerous & silty, dense w/ minimal visible porosity, slightly unconsolidated



Sh- Gray Maroon Red White, slivers & chips, silty, grainy, soft, earthy & grainy, calcareous white clumps

Lm- Cream Off White, VF grained, dense, silty & calcareous, soft & chalky

Sh- Lt Gray Dark Gray Maroon Red Brown Lime Green Purple, slivers, dense & blocky to fissile, silty, & soft, mottled lime green & gray

Chert- Buff Semi-translucent Smokey Gray Lime Green, mostly clean bedded fresh chert, few chips gritty dense & brittle

Sh- Various colored w/ pink wash lime

Ls/Chert- Gray Brown, VF XLN, siliceous, abundant recrystallization w/ XLN porosity, mostly dense, slightly unconsolidated, few chips of brown nodular chert

Chert- Off White, reworkded bedded chert, slightly gritty & granular, black & brown stain, NO FLOR, NO ODR

MISSISSIPPIAN 4070' (-2091) E-LOG Chert- Bone White, FXLN, slightly granular, sharp, angular, bedded, LT BROWN STN, NO ODR, SLIGHT FLOR, NO CUT

Chert- A/A, chips w/ euhedral to rhombic crystal inclusions, slighty fractured w/ sub-rounded shape, LT BROWN STN, NSFO, NO WET CUT W/ MINIMAL CLOUDY FLOR

Chert- A/A, more massive sub-rounded chips, slightly granular, FEW CHIPS W/ BETTER DRK STN, 1 CHIP SFO, SLOW STREAMING WET CUT & BRIGHT FLOR.

Sh- Gray Maroon Lime Green, massive, rounded, slightly unconsolidated, pebbley & micaceous, dense slivers, blocky chips, grainy & earthy, lime green stippled w/ gray & black

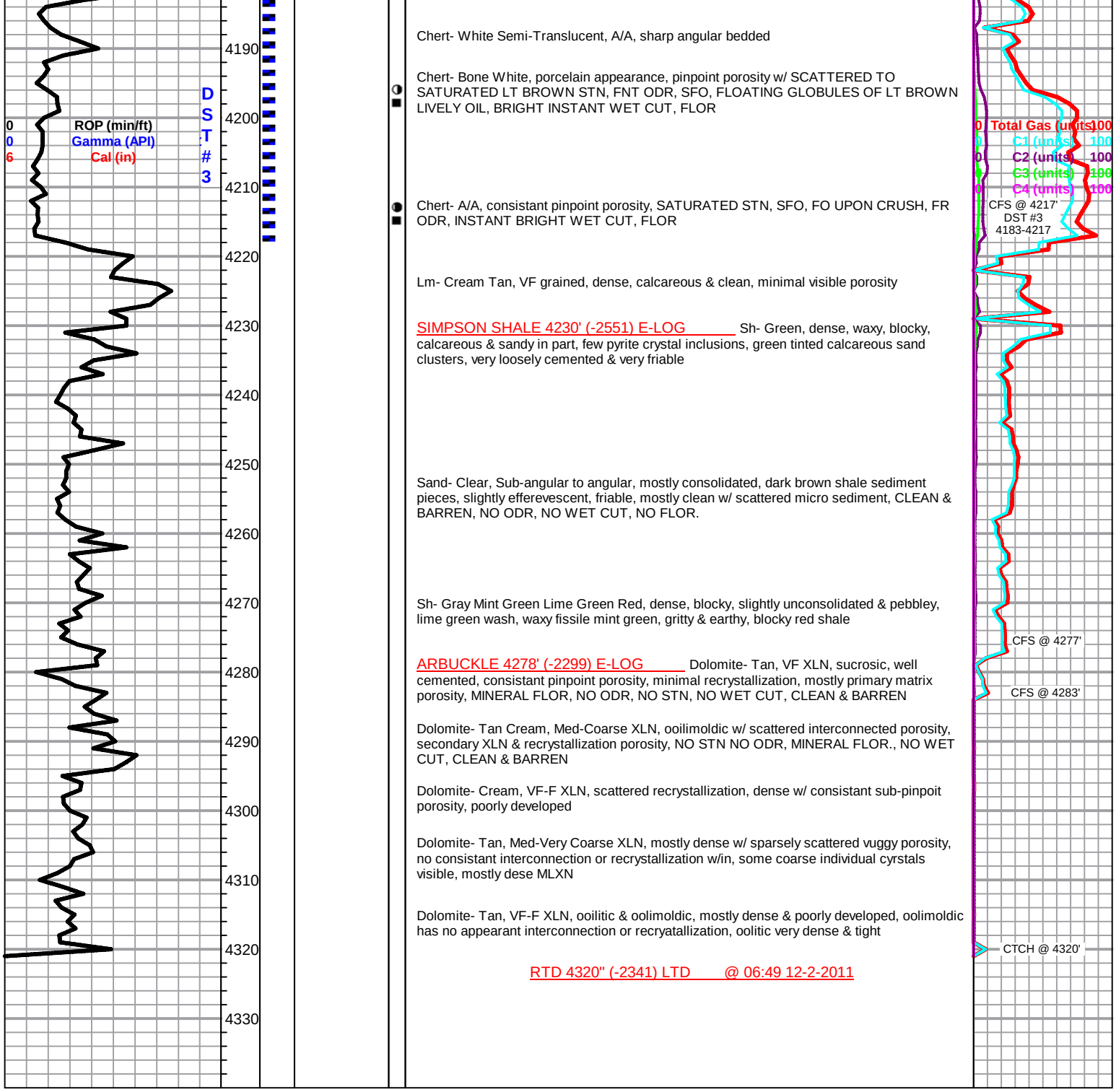
Sh- A/A w/ soft slivers, gritty & grainy, waxy

Chert- Lime Green Red Black, sharp, angular, bedded

VIOLA 4150' (-2170) E-LOG Chert- Semi-Translucent Opaque Egg Shell White Milky White, dense, sharp, angular, angular

Chert- Salmon Lime Green Tan, few tan nodular chips, mostly micro-granular, sandy, well sorted, few eroded & reworked chips, dense, well cemented

Chert- Semi-Translucent, Egg Shell White, sharp, angular, bedded, few chips semi-granular appearance, slightly dolomitic



Chert- White Semi-Translucent, A/A, sharp angular bedded

Chert- Bone White, porcelain appearance, pinpoint porosity w/ SCATTERED TO SATURATED LT BROWN STN, FNT ODR, SFO, FLOATING GLOBULES OF LT BROWN LIVELY OIL, BRIGHT INSTANT WET CUT, FLOR

Chert- A/A, consistant pinpoint porosity, SATURATED STN, SFO, FO UPON CRUSH, FR ODR, INSTANT BRIGHT WET CUT, FLOR

Lm- Cream Tan, VF grained, dense, calcareous & clean, minimal visible porosity

SIMPSON SHALE 4230' (-2551) E-LOG Sh- Green, dense, waxy, blocky, calcareous & sandy in part, few pyrite crystal inclusions, green tinted calcareous sand clusters, very loosely cemented & very friable

Sand- Clear, Sub-angular to angular, mostly consolidated, dark brown shale sediment pieces, slightly efferevescent, friable, mostly clean w/ scattered micro sediment, CLEAN & BARREN, NO ODR, NO WET CUT, NO FLOR.

Sh- Gray Mint Green Lime Green Red, dense, blocky, slightly unconsolidated & pebbley, lime green wash, waxy fissile mint green, gritty & earthy, blocky red shale

ARBUCKLE 4278' (-2299) E-LOG Dolomite- Tan, VF XLN, sucrosic, well cemented, consistant pinpoint porosity, minimal recrystallization, mostly primary matrix porosity, MINERAL FLOR, NO ODR, NO STN, NO WET CUT, CLEAN & BARREN

Dolomite- Tan Cream, Med-Coarse XLN, ooilimoldic w/ scattered interconnected porosity, secondary XLN & recrystallization porosity, NO STN NO ODR, MINERAL FLOR., NO WET CUT, CLEAN & BARREN

Dolomite- Cream, VF-F XLN, scattered recrystallization, dense w/ consistant sub-pinpoit porosity, poorly developed

Dolomite- Tan, Med-Very Coarse XLN, mostly dense w/ sparsely scattered vuggy porosity, no consistant interconnection or recrystallization w/in, some coarse individual cyrstals visible, mostly dese MLXN

Dolomite- Tan, VF-F XLN, ooilitic & oolimoldic, mostly dense & poorly developed, oolimoldic has no appearant interconnection or recryatallization, oolitic very dense & tight

RTD 4320" (-2341) LTD @ 06:49 12-2-2011

DRILL STEM TEST REPORT

Caerus Kansas LLC

P.O.Box 1378
Hays Ks.67601

ATTN: Jeff Lawler

33-24s-143w Stafford Ks

Getty #33-34

Job Ticket: 44086 **DST#: 4**

Test Start: 2011.12.02 @ 22:42:02

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:33:47
Time Test Ended: 08:24:17

Test Type: Conventional Straddle (Reset)
Tester: Gary Pevoteaux
Unit No: 56

Interval: 4210.00 ft (KB) To 4282.00 ft (KB) (TVD)
Total Depth: 4320.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

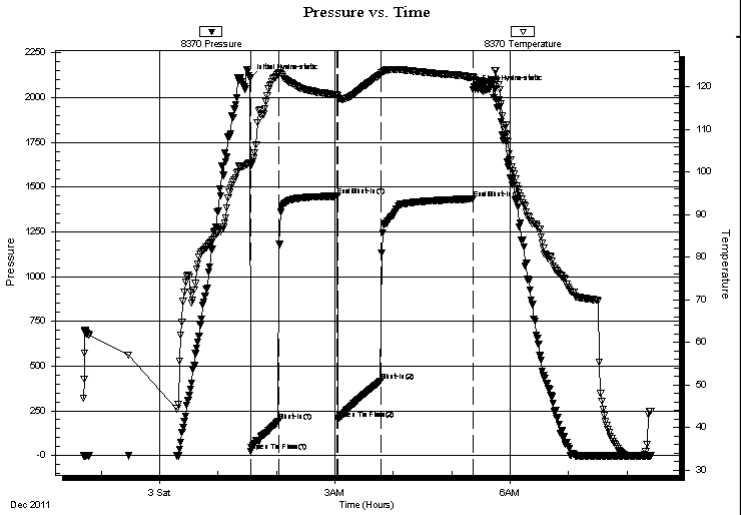
Reference Elevations: 1979.00 ft (KB)
1970.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8370 **Outside**

Press@RunDepth: 417.29 psig @ 4211.00 ft (KB)
Start Date: 2011.12.02 End Date: 2011.12.03
Start Time: 22:42:07 End Time: 08:24:17

Capacity: 8000.00 psig
Last Calib.: 2011.12.03
Time On Btm: 2011.12.03 @ 01:33:02
Time Off Btm: 2011.12.03 @ 05:24:17

TEST COMMENT: IF:Strong blow . B.O.B. in 11 mins.
ISI:No blow .
FF:Strong blow . B.O.B. in 12 mins.
FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.64	102.27	Initial Hydro-static
1	23.28	101.55	Open To Flow (1)
29	191.79	123.05	Shut-In(1)
90	1450.18	118.06	End Shut-In(1)
90	200.62	117.54	Open To Flow (2)
134	417.29	122.96	Shut-In(2)
229	1434.22	122.19	End Shut-In(2)
232	2048.19	121.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WM 35%w 65%m	1.68
250.00	MW 28%m 72%w	3.51
510.00	MW 8%m 92%w /Rw .38ohms@45deg	7.15

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Caerus Kansas LLC

P.O.Box 1378
Hays Ks.67601

ATTN: Jeff Lawler

33-24s-143w Stafford Ks

Getty #33-34

Job Ticket: 44086 **DST#: 4**

Test Start: 2011.12.02 @ 22:42:02

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:33:47
Time Test Ended: 08:24:17

Test Type: Conventional Straddle (Reset)
Tester: Gary Pevoteaux
Unit No: 56

Interval: 4210.00 ft (KB) To 4282.00 ft (KB) (TVD)
Total Depth: 4320.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

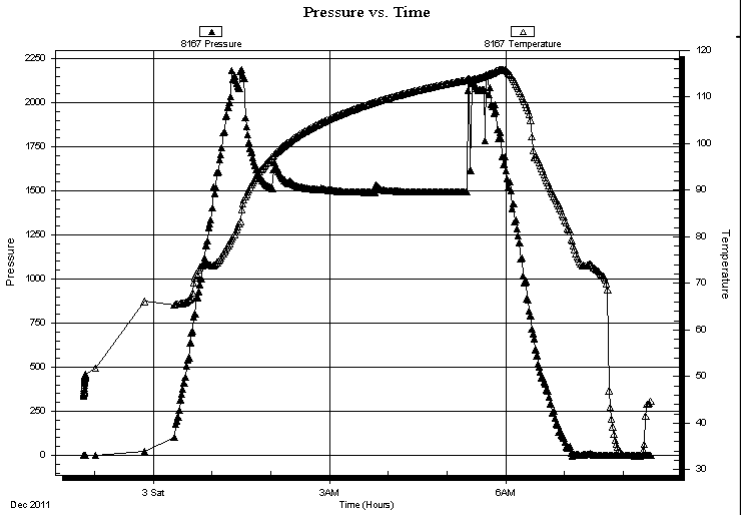
Reference Elevations: 1979.00 ft (KB)
1970.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8167 **Below (Straddle)**

Press@RunDepth: psig @ 4284.00 ft (KB)
Start Date: 2011.12.02 End Date: 2011.12.03
Start Time: 22:49:03 End Time: 08:28:17

Capacity: 8000.00 psig
Last Calib.: 2011.12.03
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:Strong blow . B.O.B. in 11 mins.
ISI:No blow .
FF:Strong blow . B.O.B. in 12 mins.
FSI:No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WM 35%w 65%m	1.68
250.00	MW 28%m 72%w	3.51
510.00	MW 8%m 92%w /Rw .38ohms@45deg	7.15

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

P.O.Box 1378
Hays Ks.67601

ATTN: Jeff Lawler

33-24s-143w Stafford Ks

Getty #33-34

Job Ticket: 44086 **DST#: 4**

Test Start: 2011.12.02 @ 22:42:02

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:	29000 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	10000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WM 35%w 65%m	1.683
250.00	MW 28%m 72%w	3.507
510.00	MW 8%m 92%w /Rw .38ohms@45deg	7.154

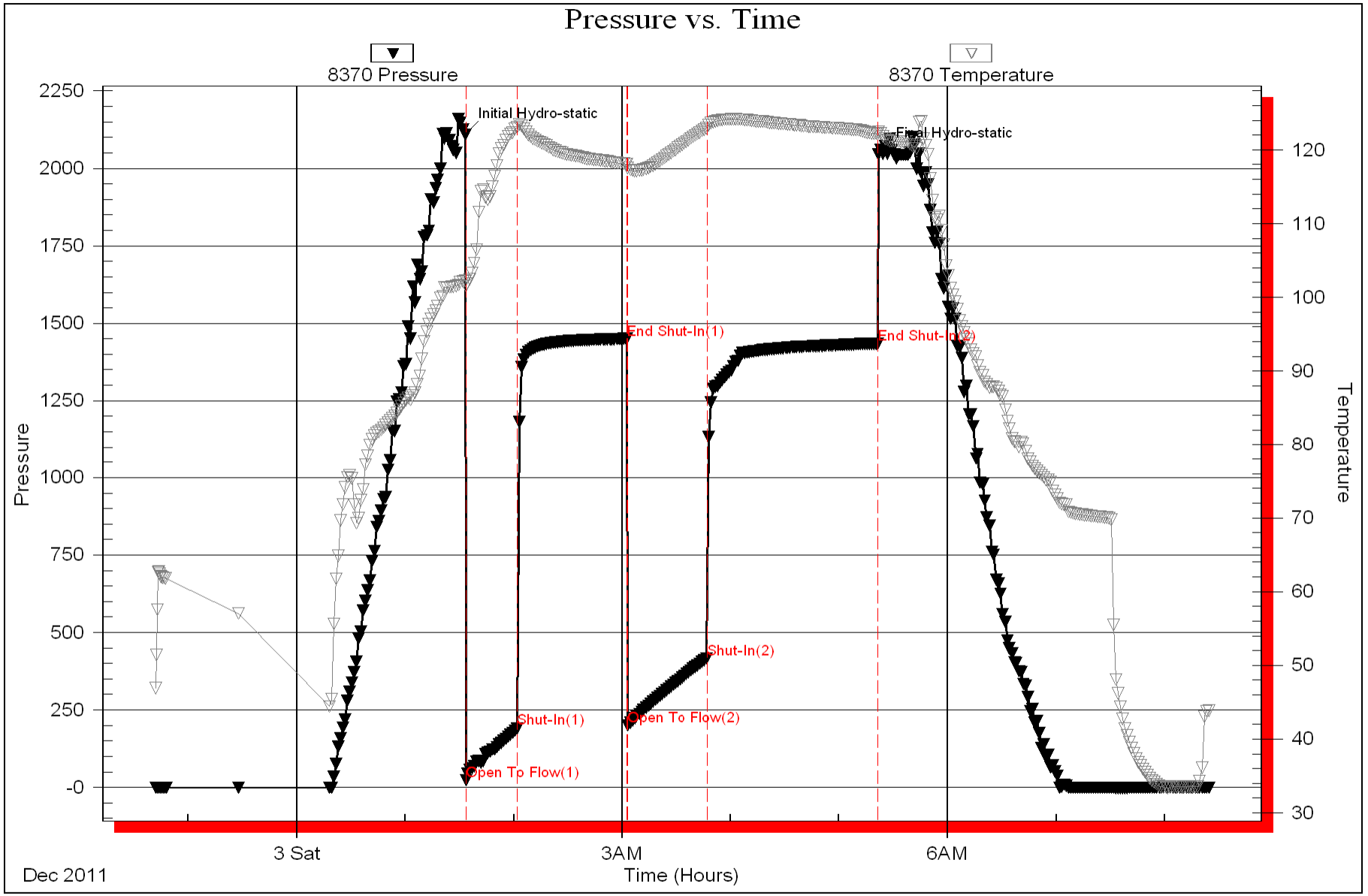
Total Length: 880.00 ft Total Volume: 12.344 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

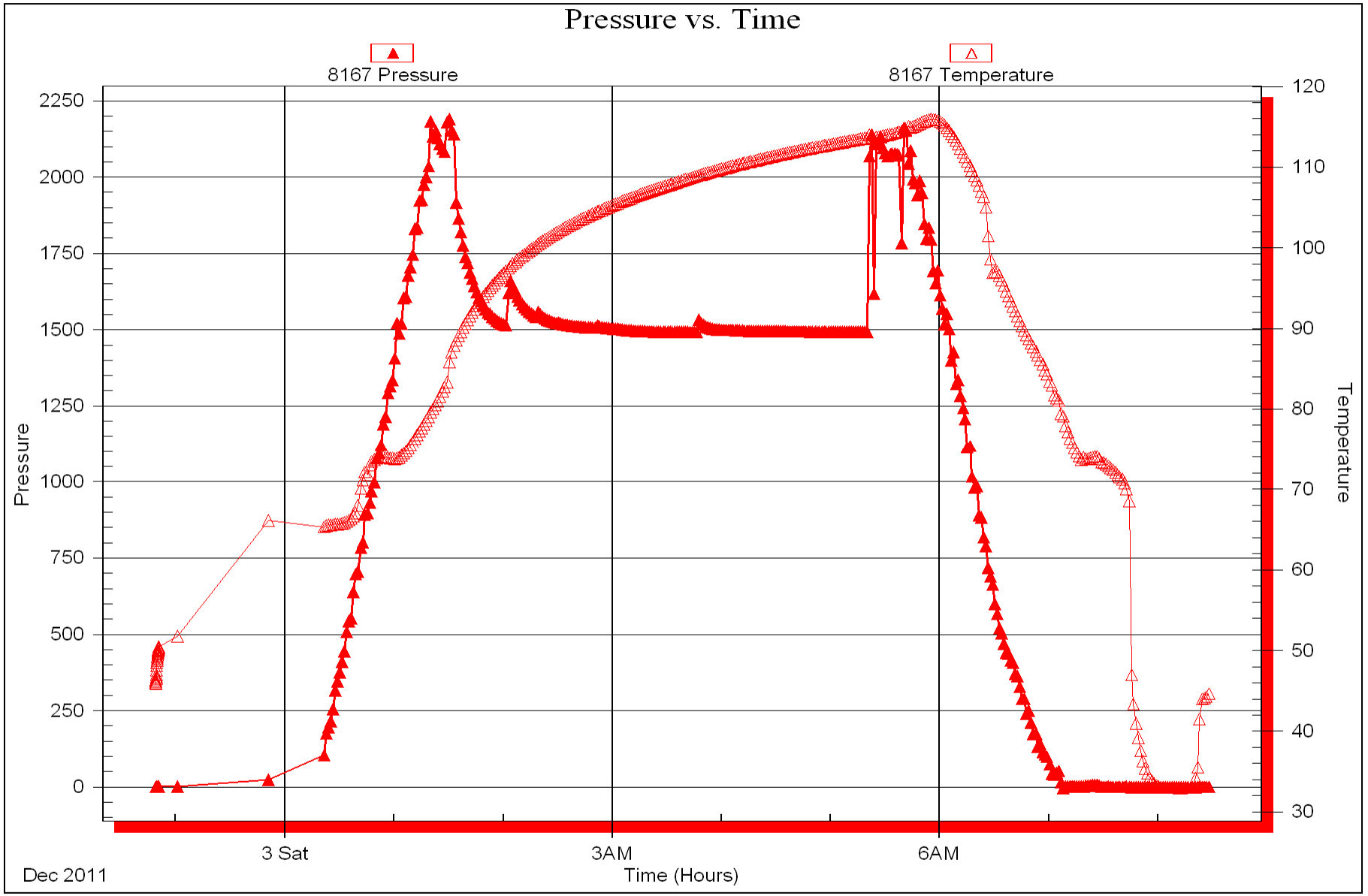
Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8370 **Outside** Caerus Kansas LLC Getty #33-34 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 44086 Printed: 2011.12.03 @ 09:04:30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8167 Temperature
2250
2000
1750
1500
1250
1000
750
500
250
0
Pressure
120
110
100
90
80
70
60
50
40
30
Temperature
3 Sat
3AM
6AM
Dec 2011
Time (Hours)

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

Kansas
Corporation Commission

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

February 23, 2012

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

Re: ACO1
API 15-185-23718-00-00
Getty 33-34
SE/4 Sec.33-24S-14W
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

SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company CAERUS KANSAS, LLC
Well GETTY #33-34
Field
County STAFFORD State KANSAS
Location: API # : 15-185-23718-0000
346' FNL & 1808' FEL
NW-SE-SW-SE
SEC 33 TWP 24S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1970
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
MEL/SON

Elevation
K.B. 1979
D.F. 1977
G.L. 1970

Company CAERUS KANSAS, LLC.
Well GETTY #33-34
Field
County STAFFORD
State KANSAS

Date	12/2/11		
Run Number	ONE		
Depth Driller	4320		
Depth Logger	4318		
Bottom Logged Interval	4316		
Top Log Interval	00		
Casing Driller	8 5/8" @ 262		
Casing Logger	261		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 10000 PPM	
Density / Viscosity	9.3/58		
pH / Fluid Loss	9.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.40 @ 67F		
Rmf @ Meas. Temp	.30 @ 67F		
Rmc @ Meas. Temp	.48 @ 67F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.22 @ 118F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	118F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JEFF LAWLER		

<<< Fold Here >>>

Comments

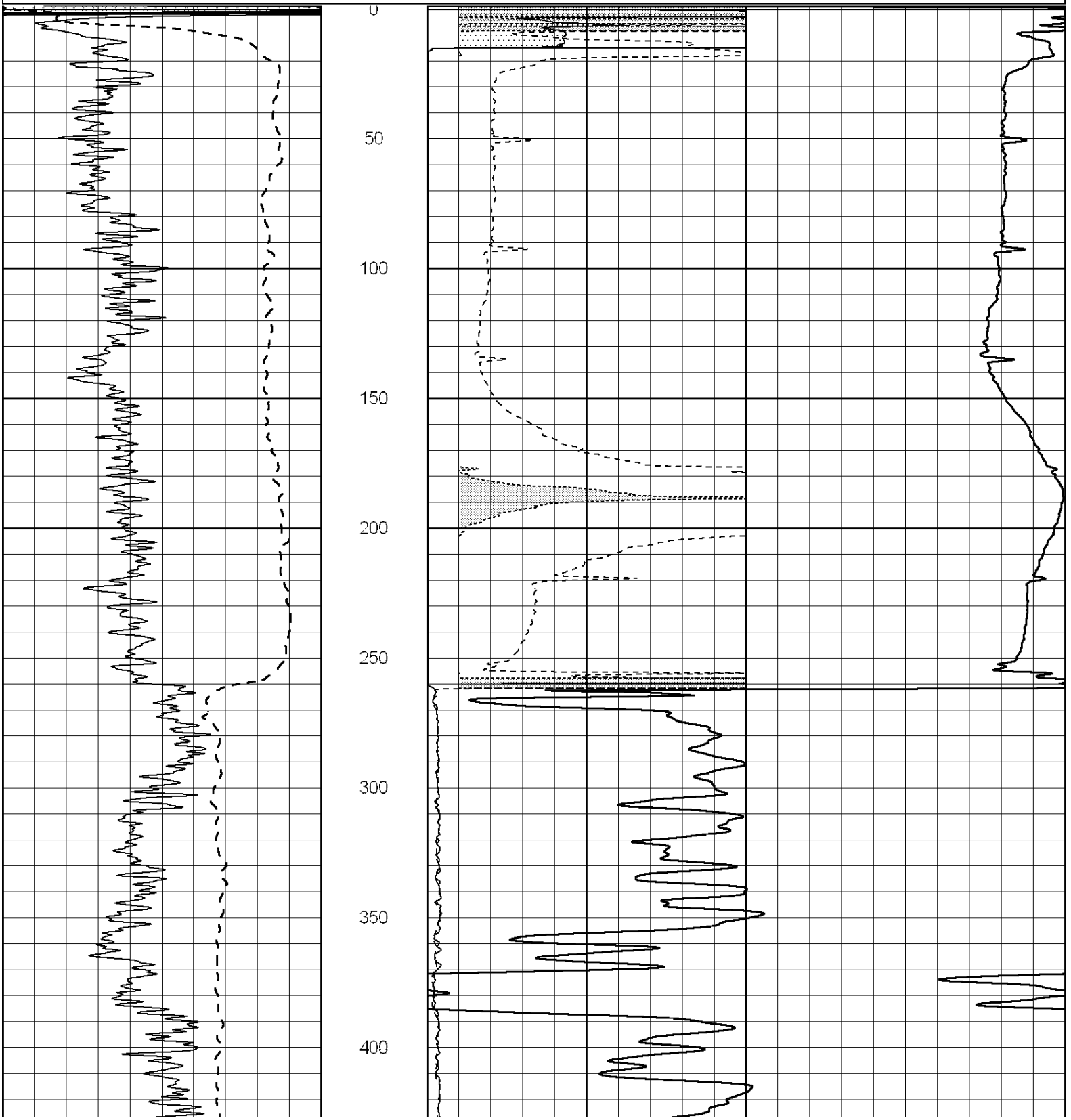
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
MACKSVILLE, KS - EAST 5 MILES TO RD 70 - 3 S. - 3/4 E. - N. INTO

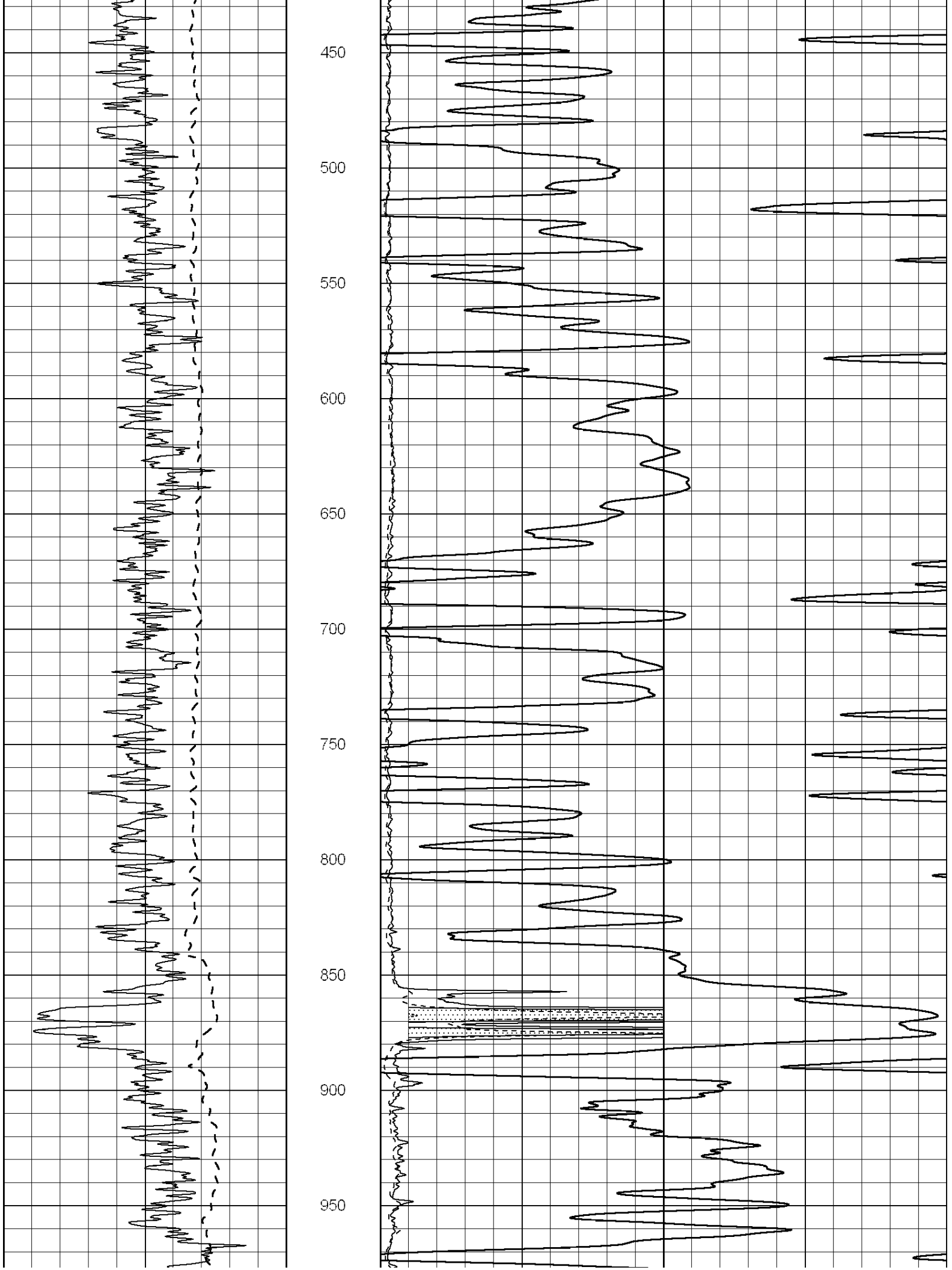
SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 008094ddn.db
Dataset Pathname: pass3.2
Presentation Format: _dil2
Dataset Creation: Fri Dec 02 13:54:59 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:600

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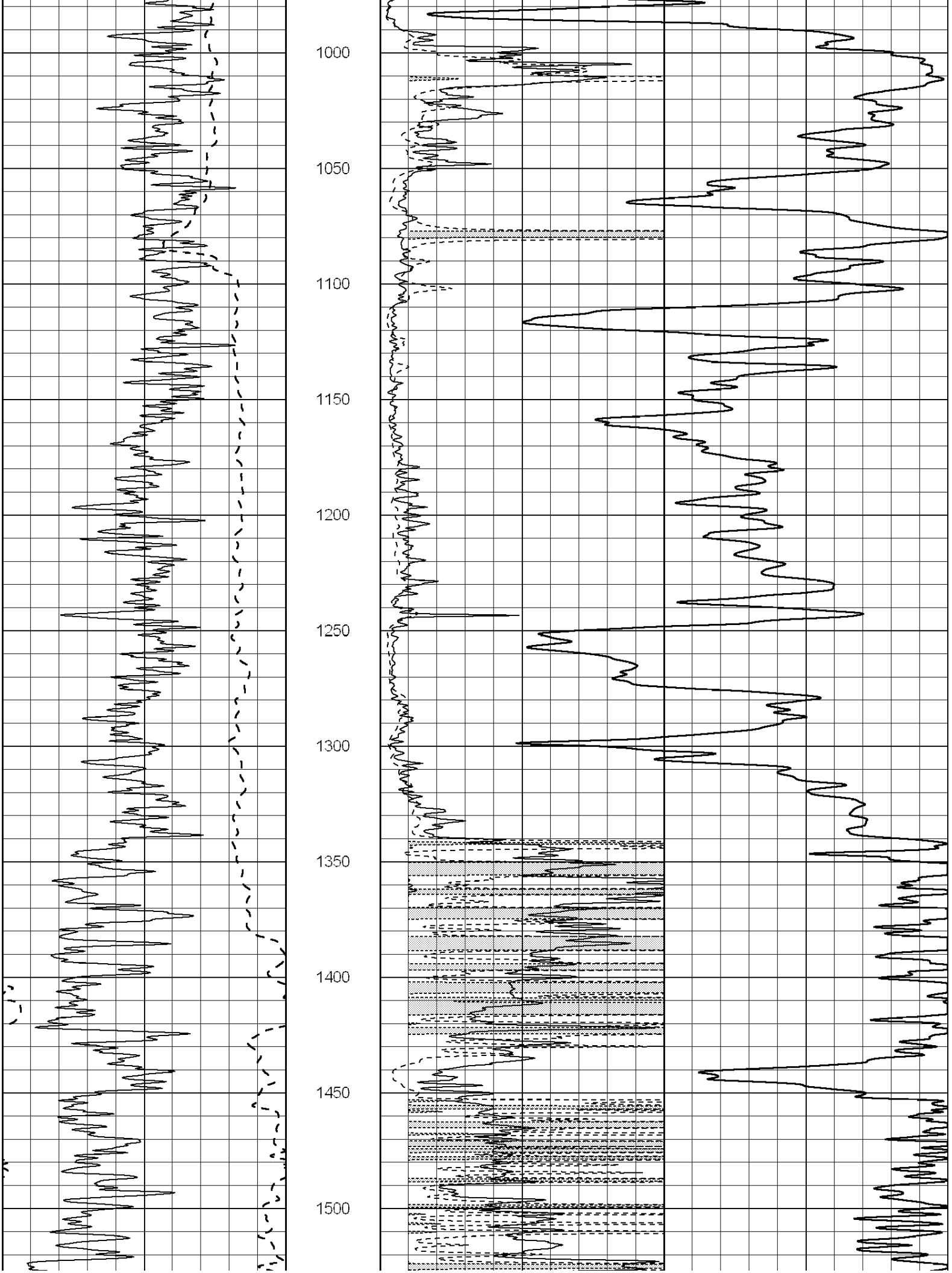
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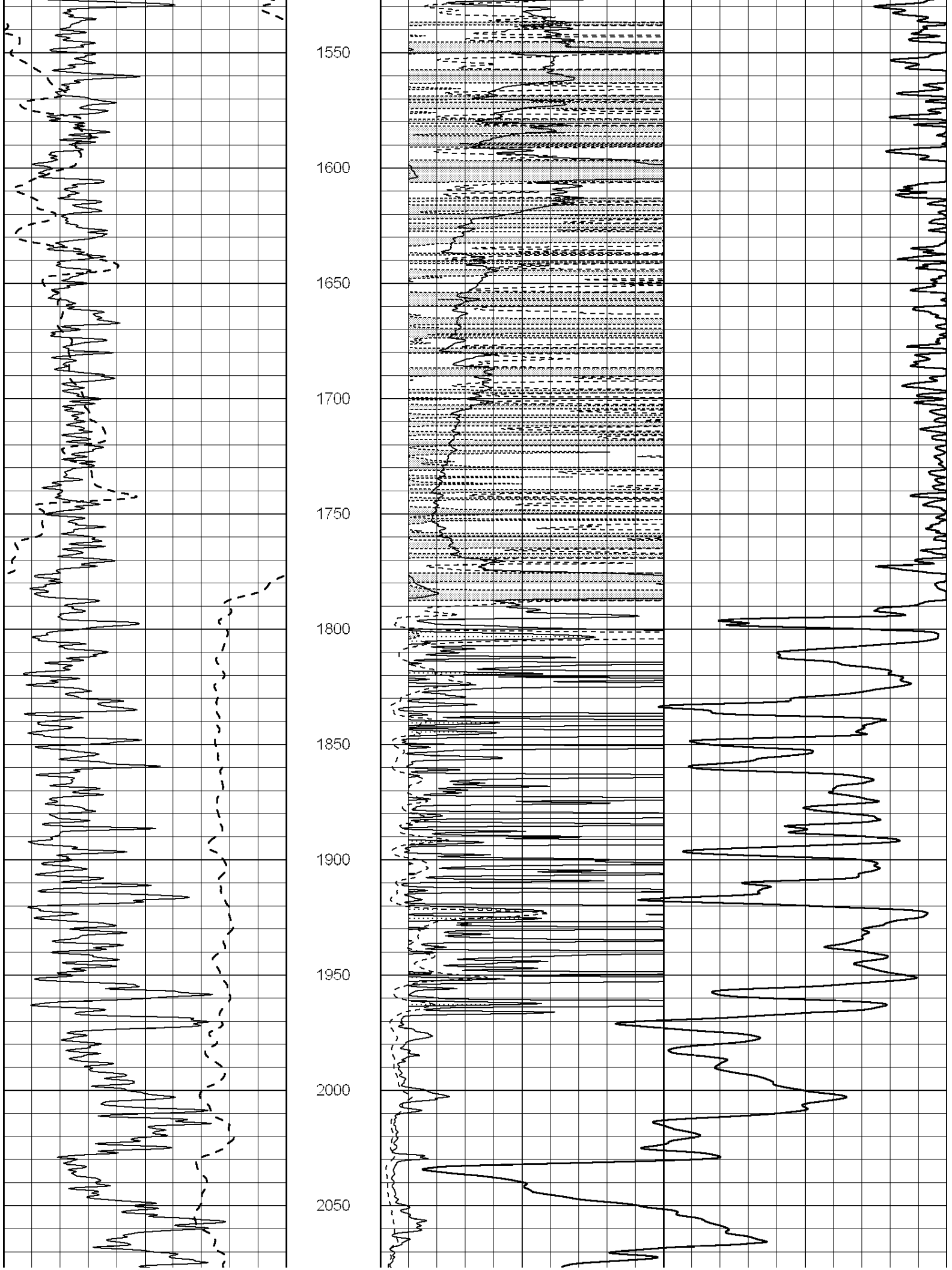
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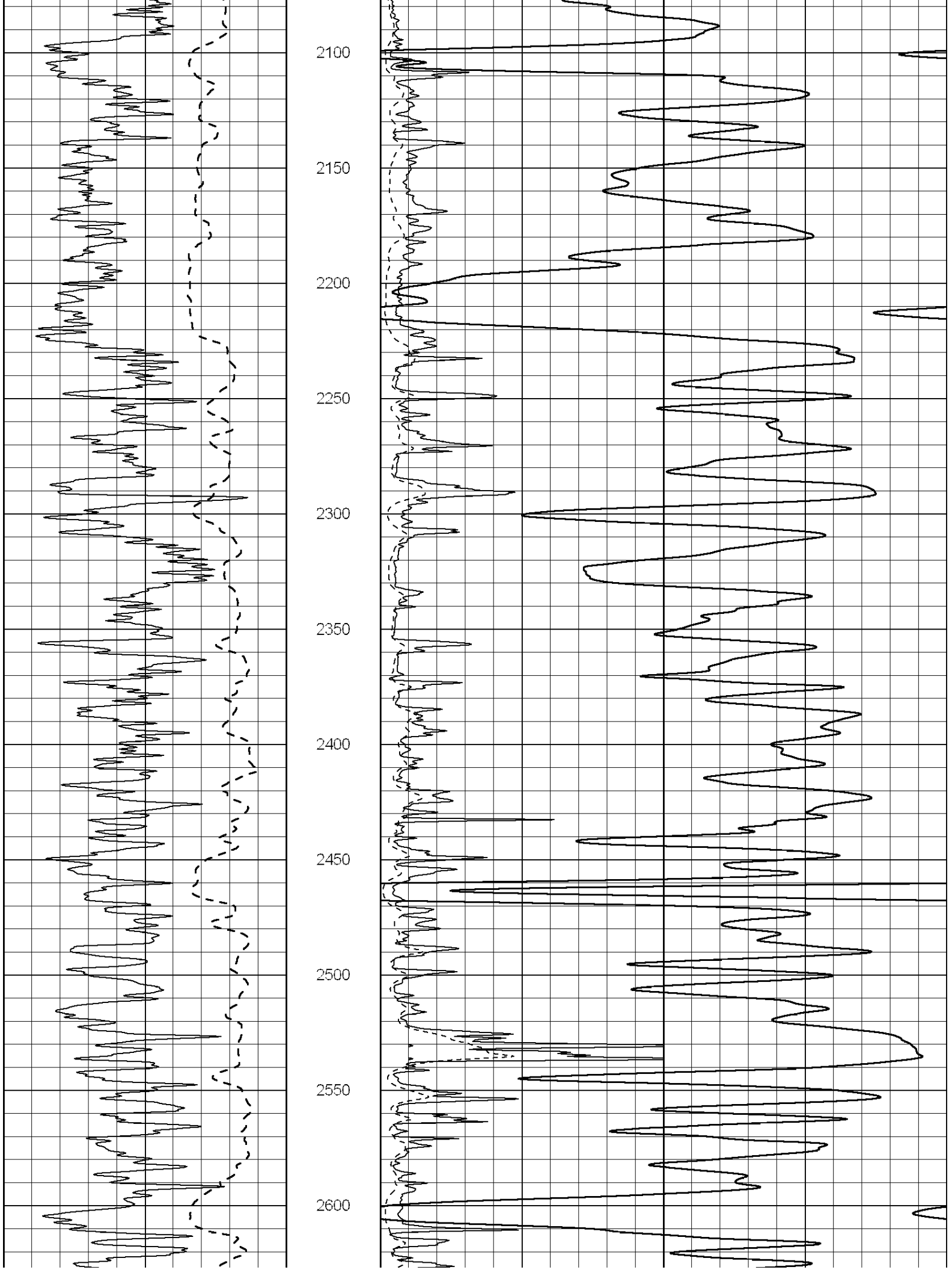
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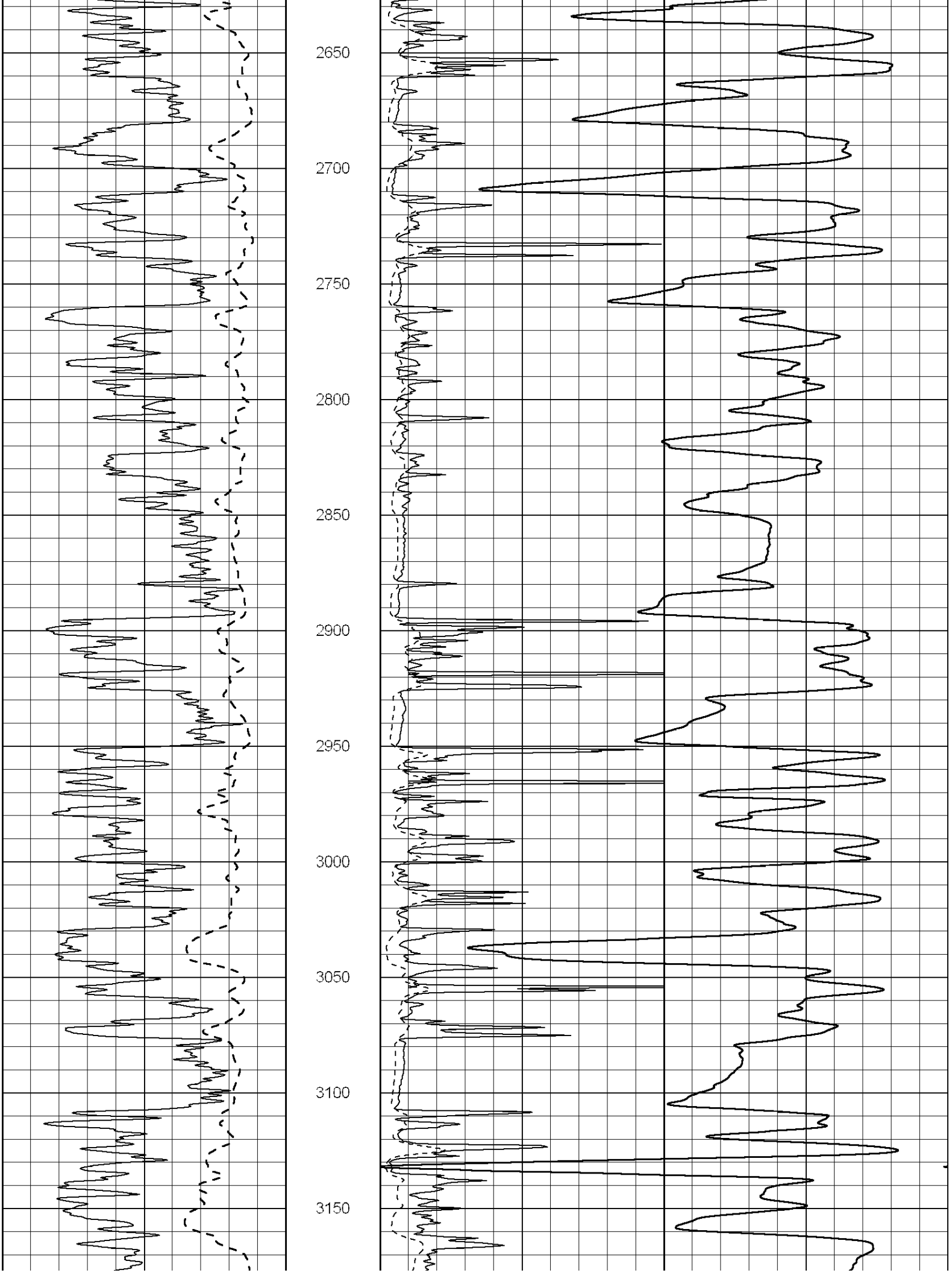
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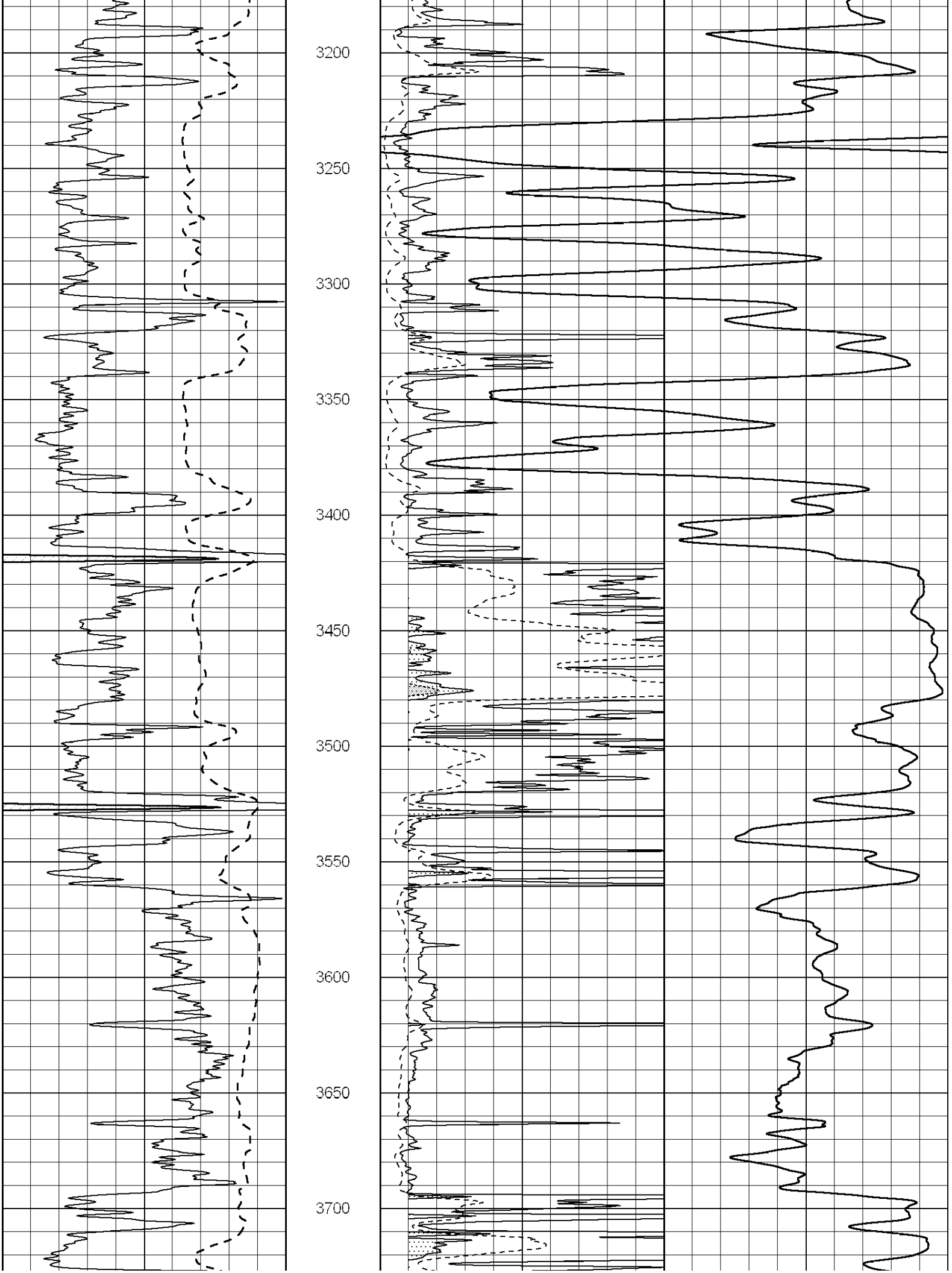
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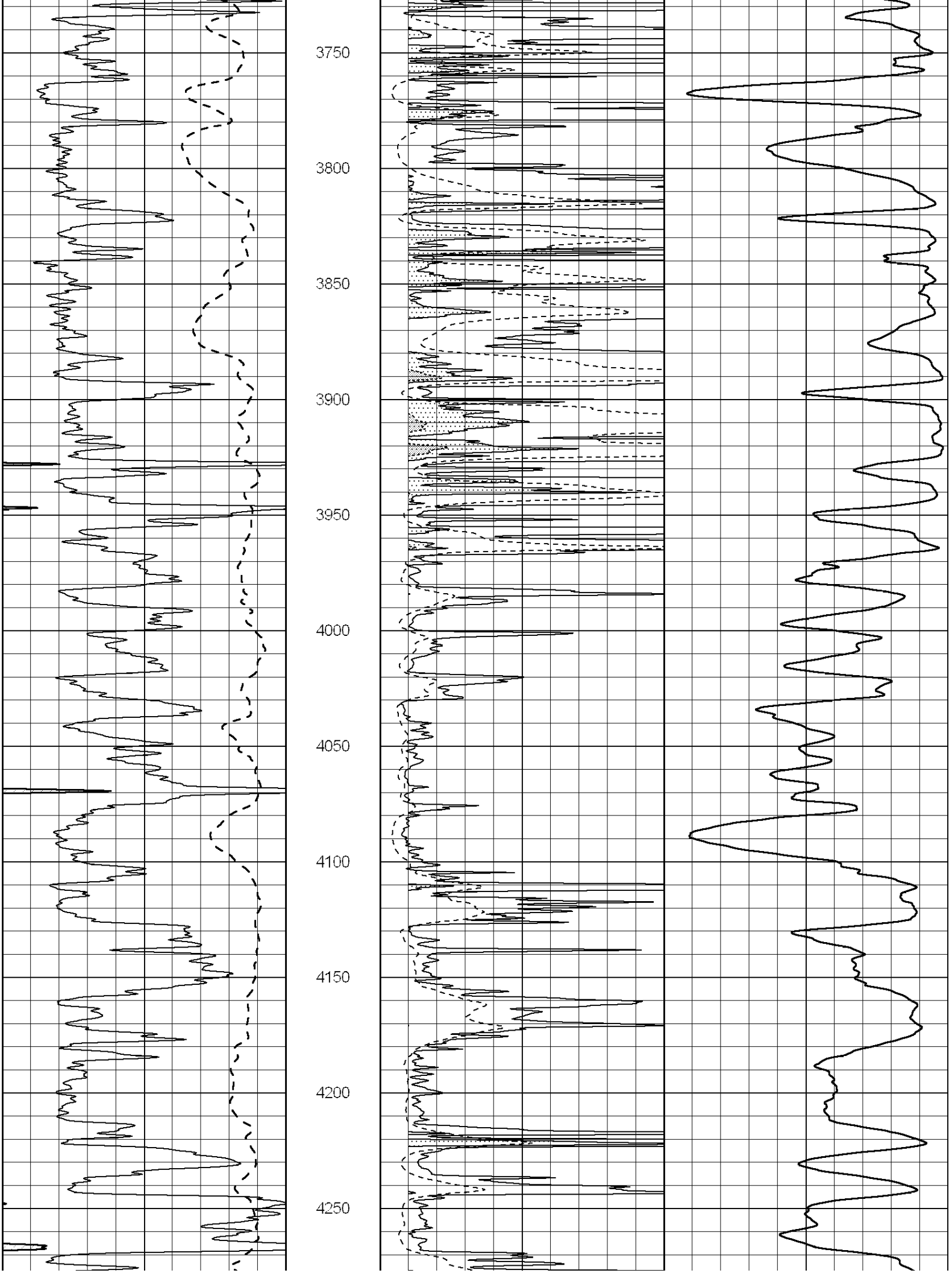
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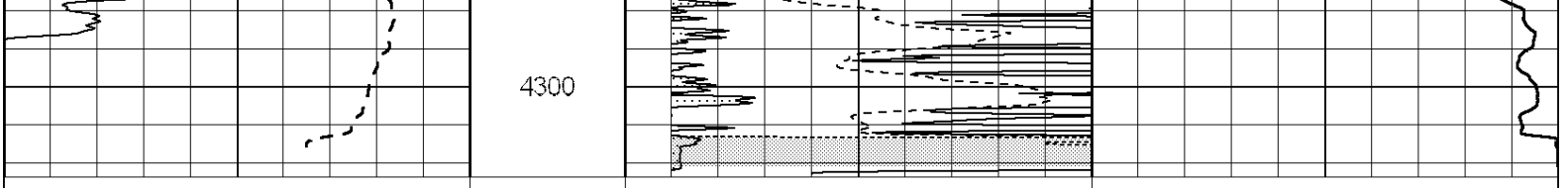

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-100	SP (mV)	100

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 WELL SERVICES

SUPERIOR
Hays,
Kansas

ANHYDRITE

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Presentation Format: _dil
Dataset Creation: Fri Dec 02 13:26:44 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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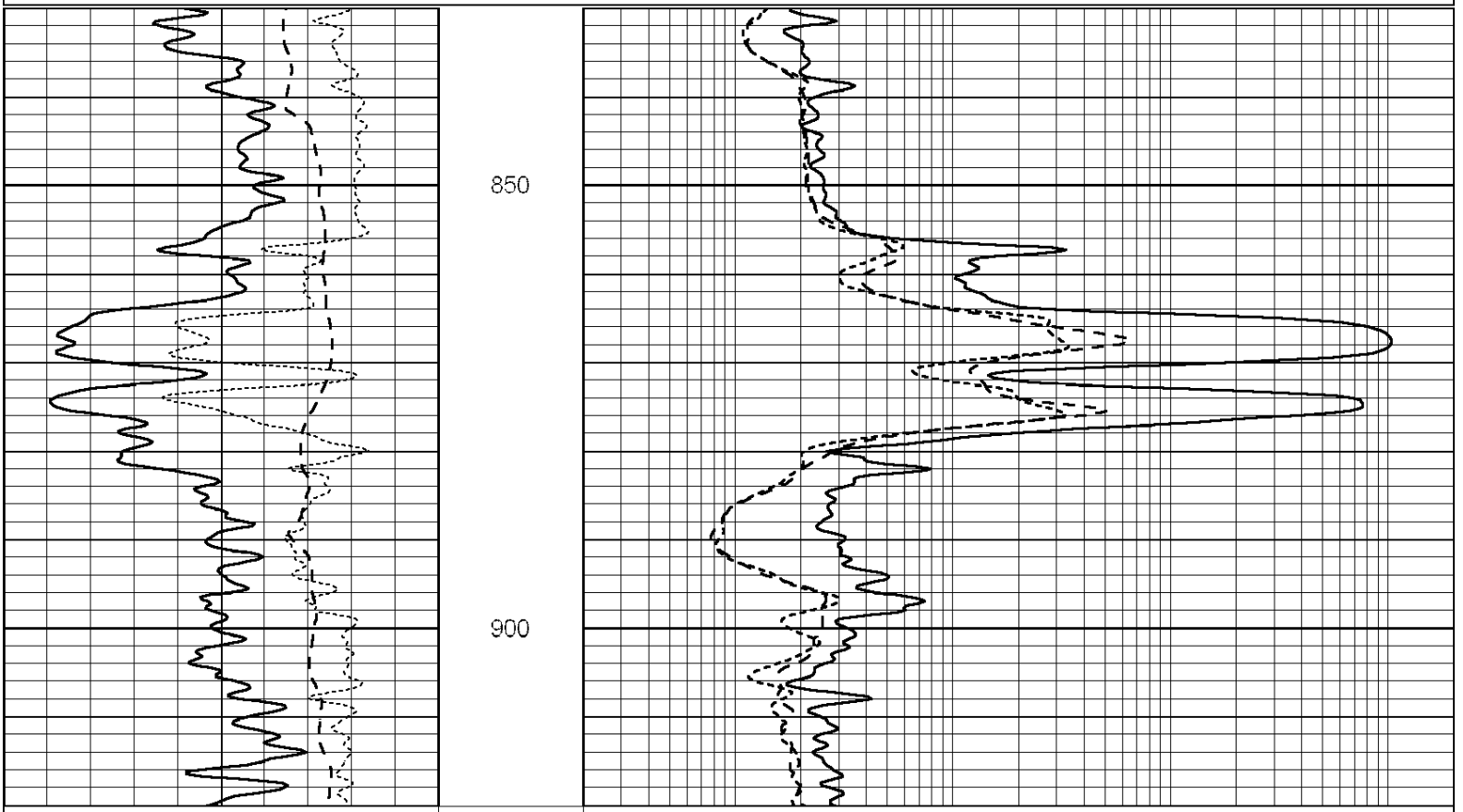

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-100	SP (mV)	100
-250	Rxo/Rt	50

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

SUPERIOR
Hays,
Kansas

MAIN SECTION

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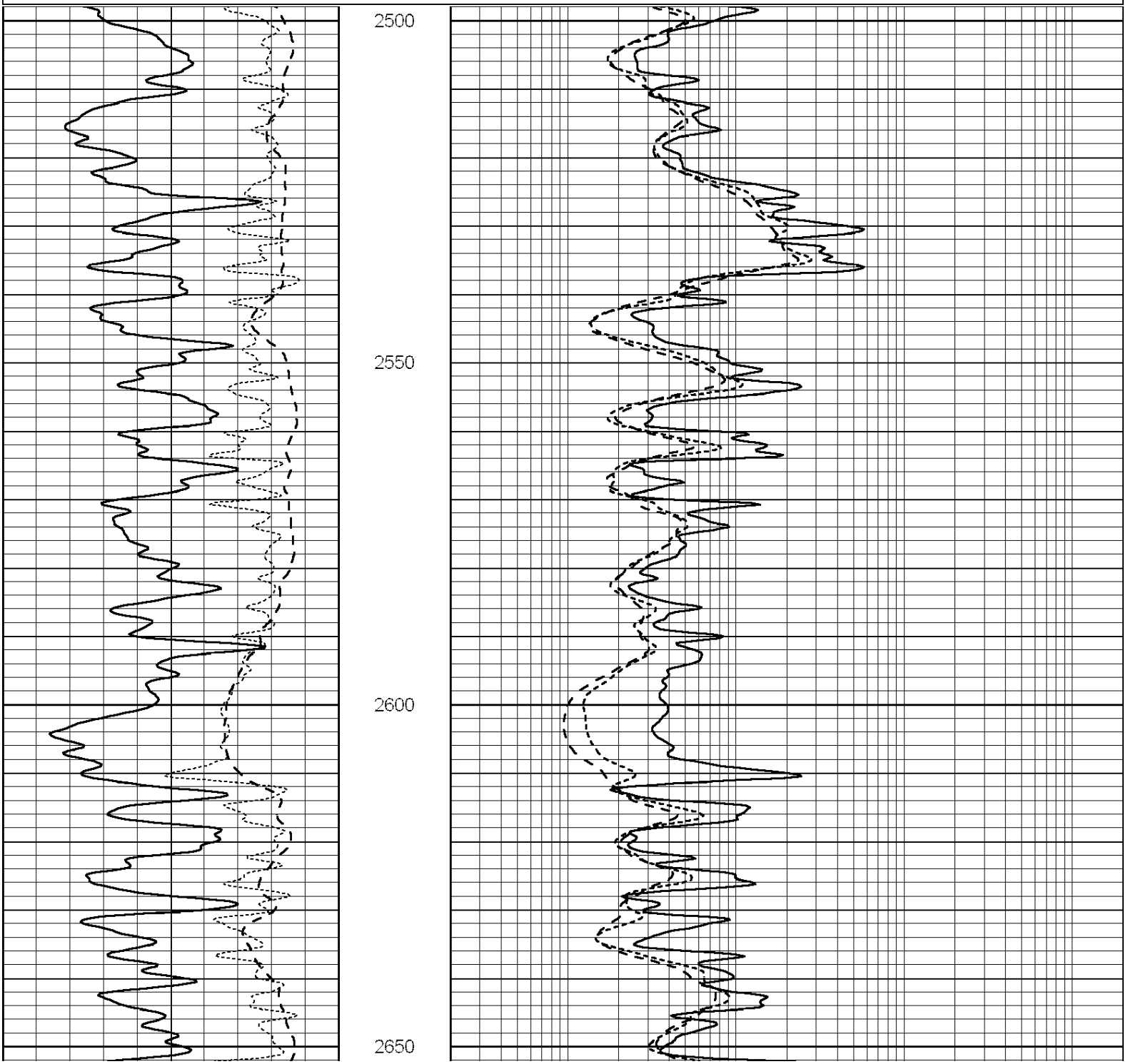

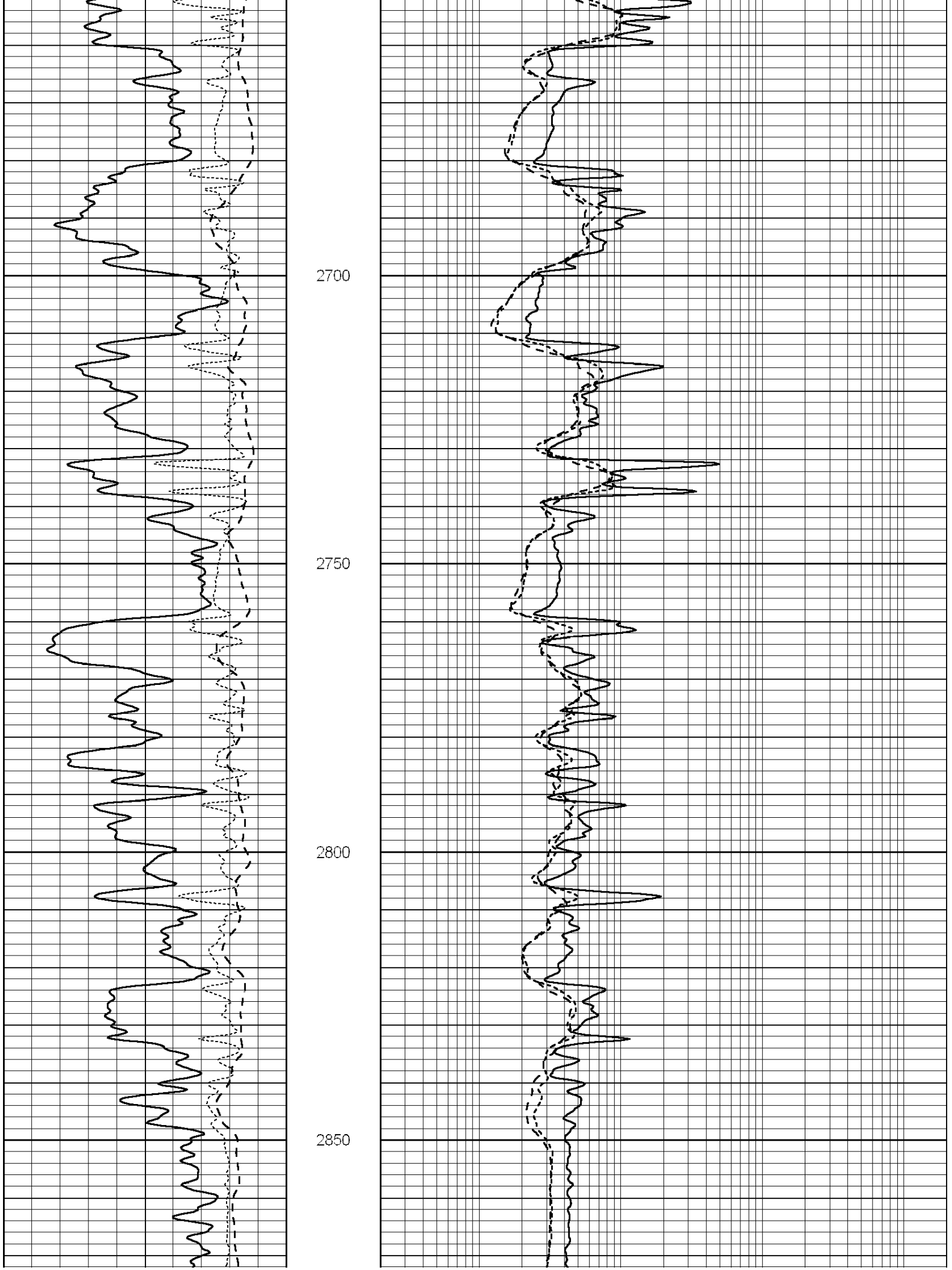
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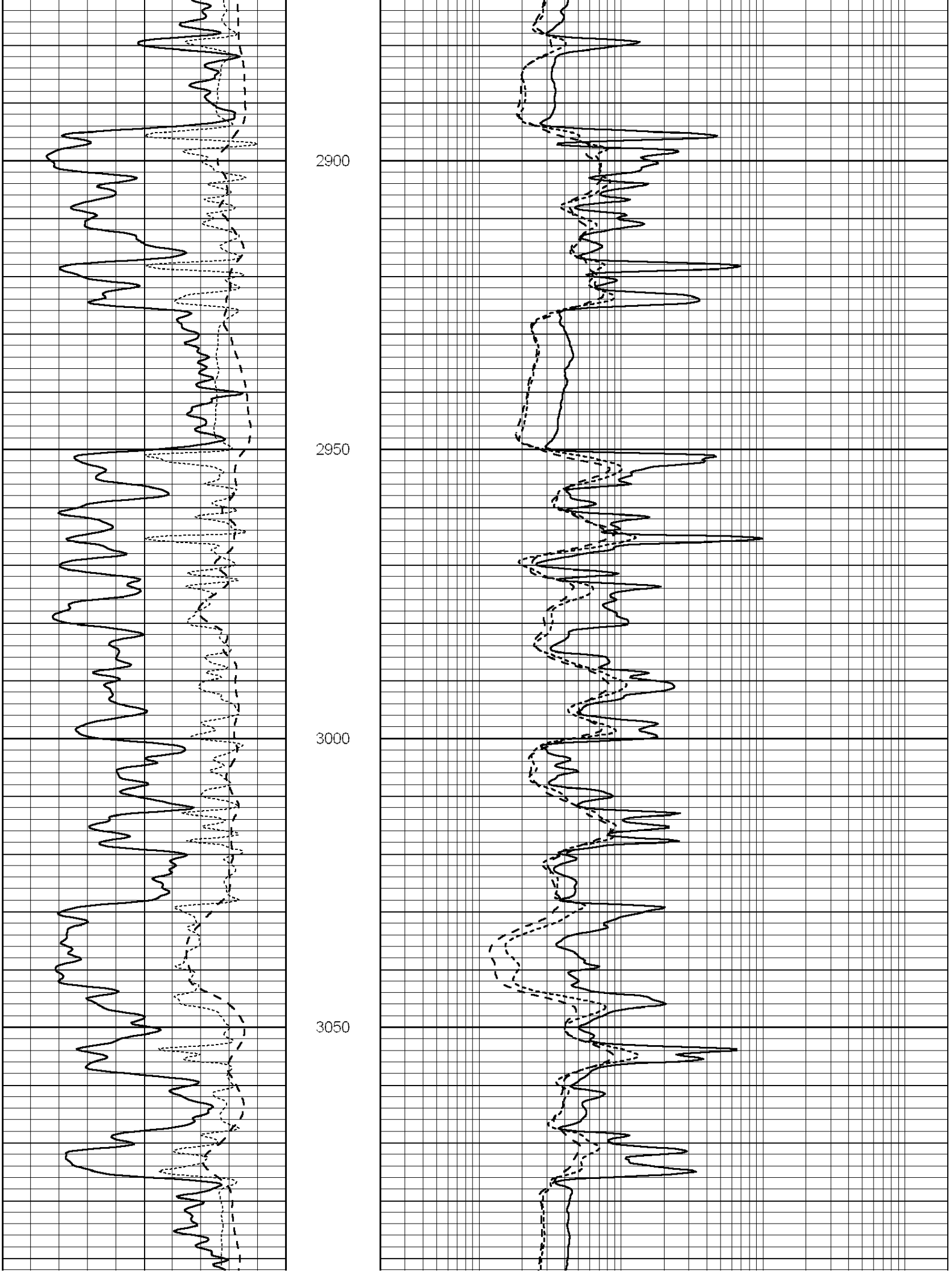
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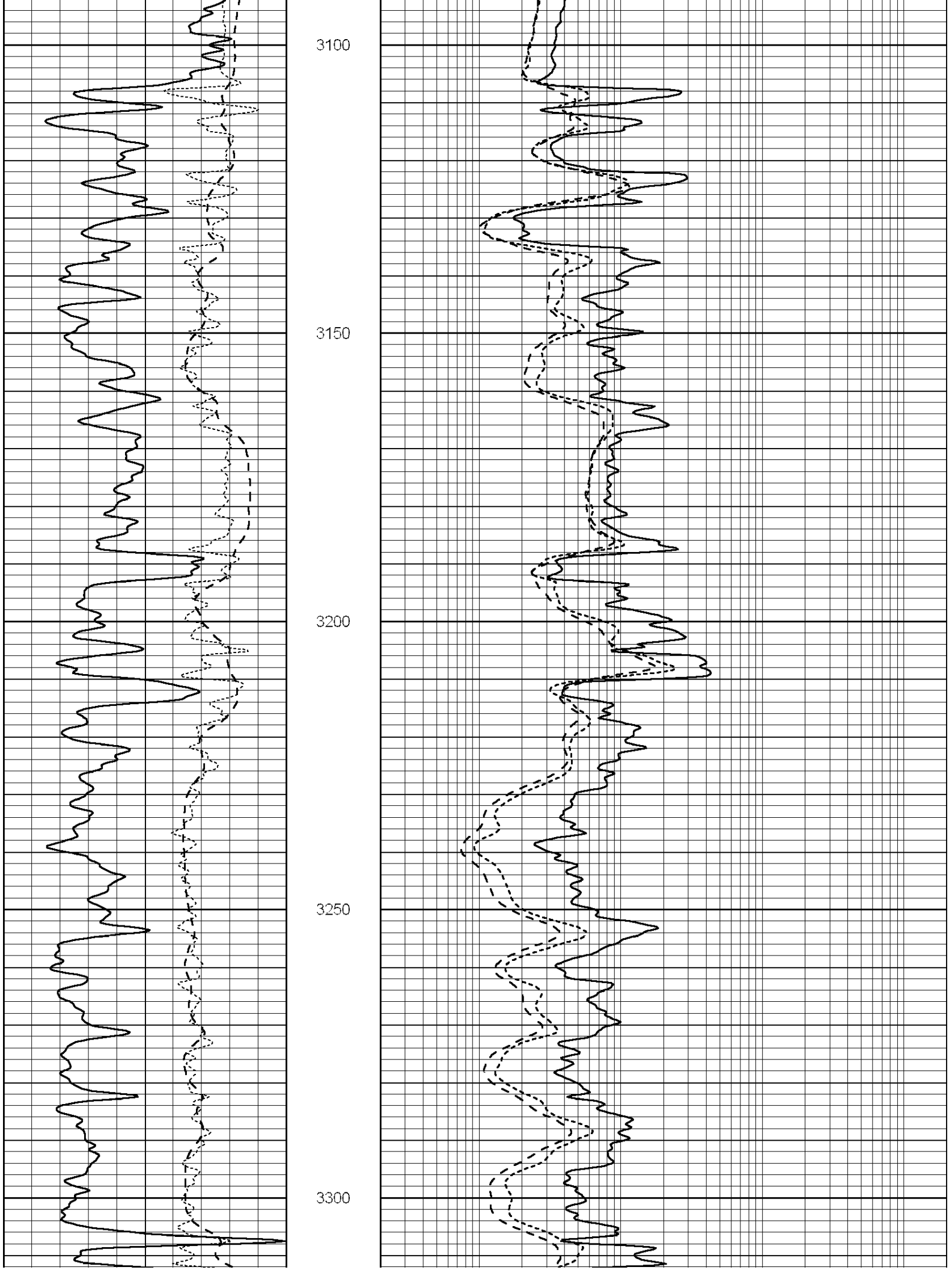
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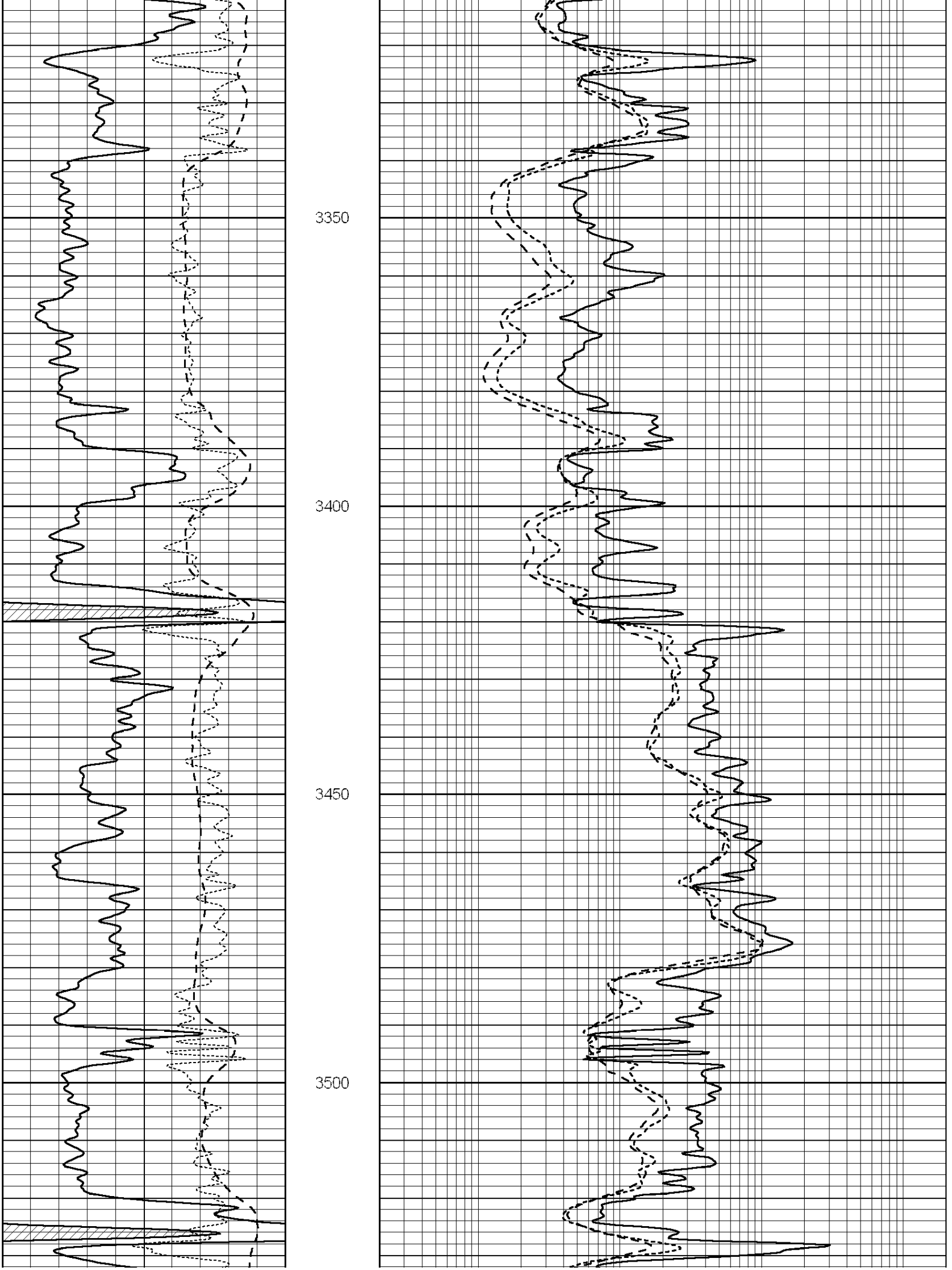
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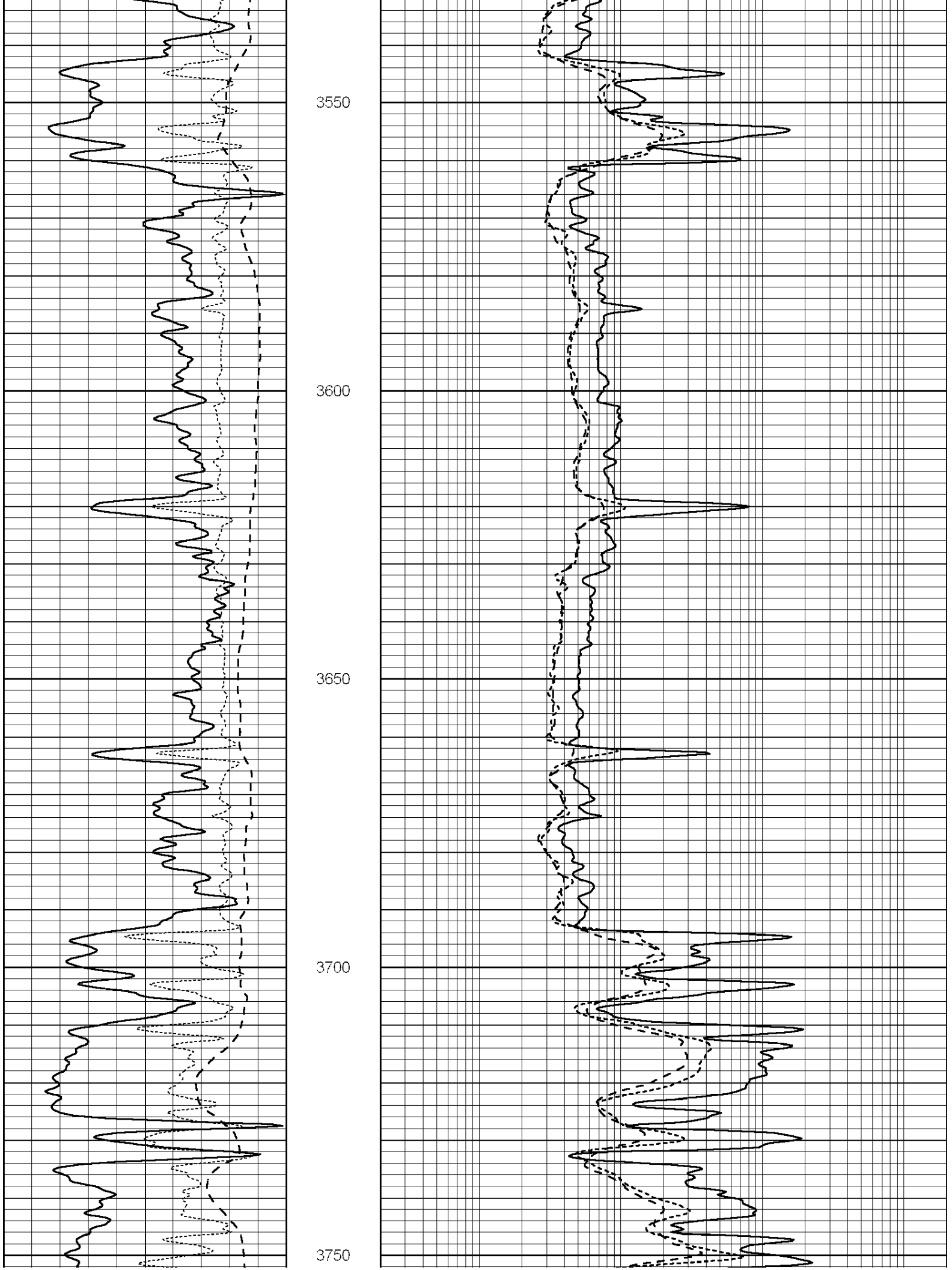
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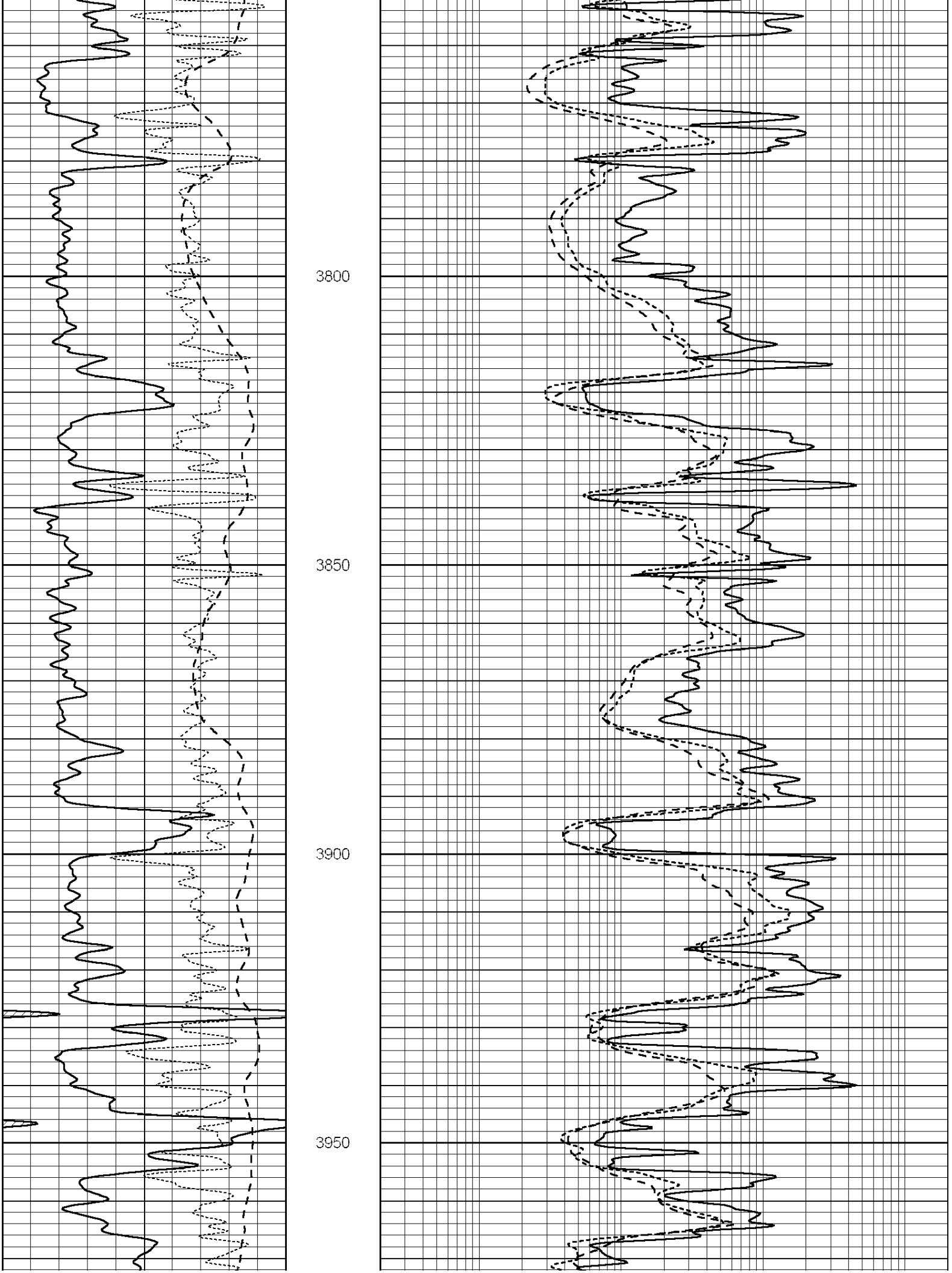
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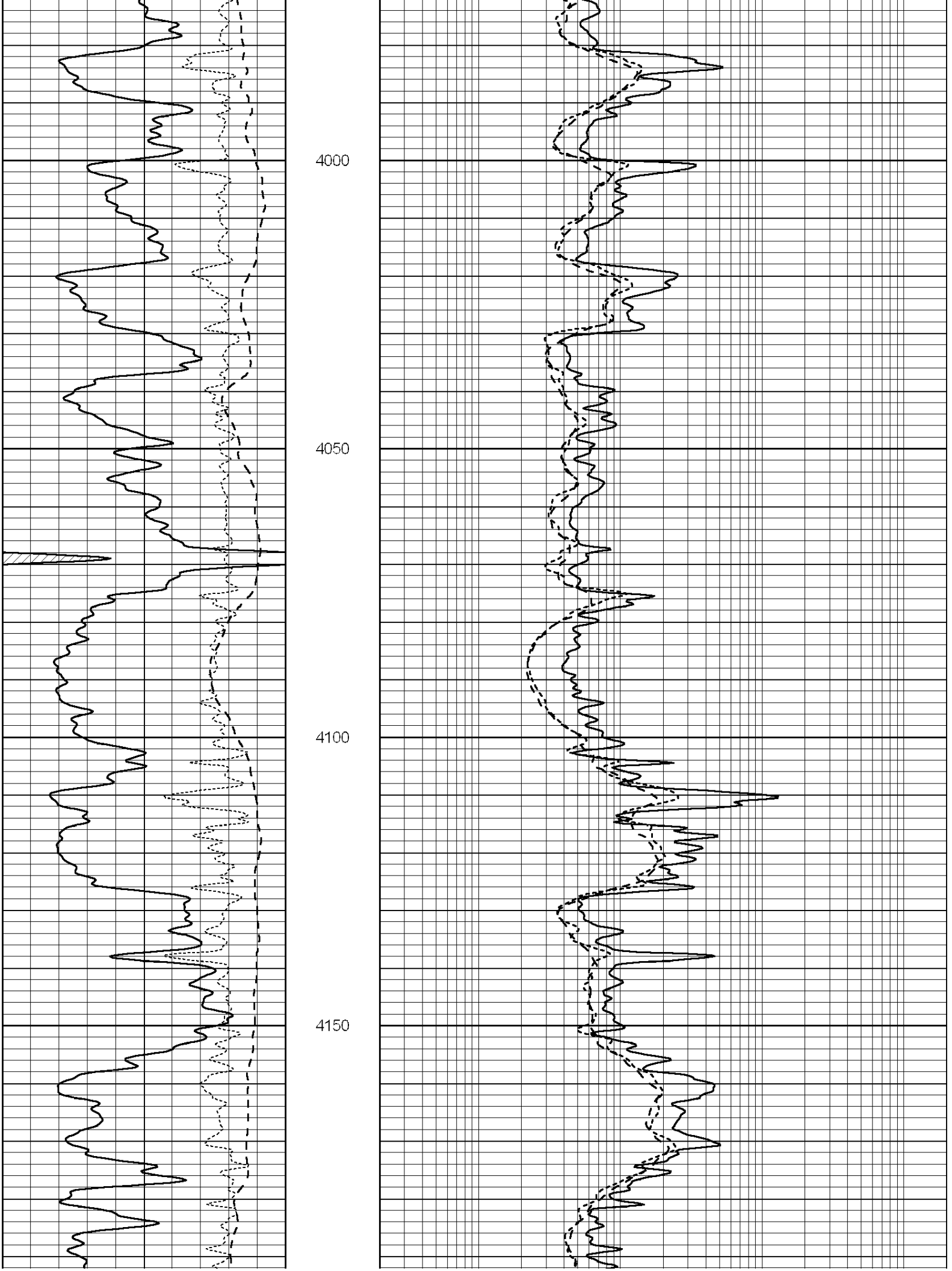
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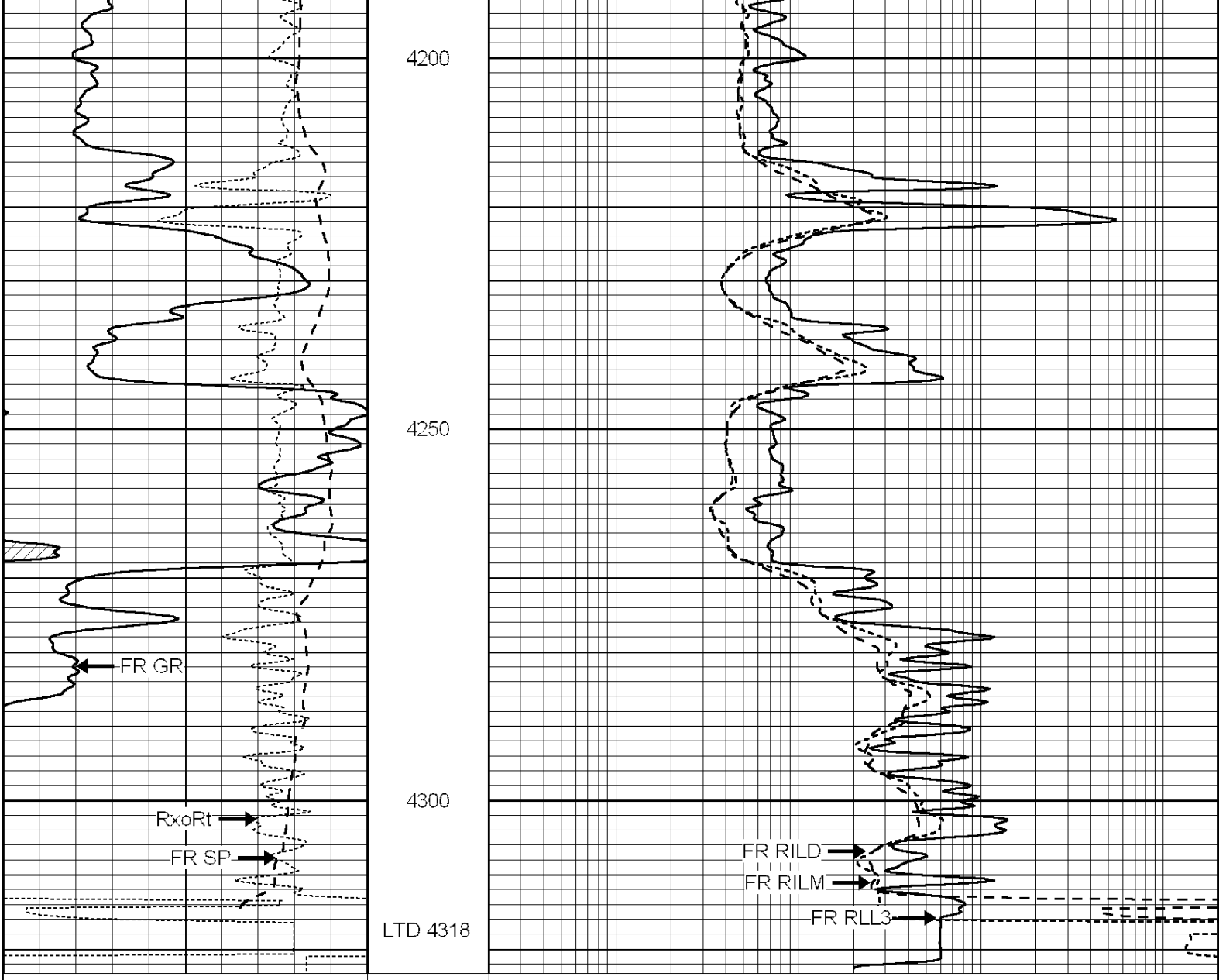


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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

SUPERIOR WELL SERVICES

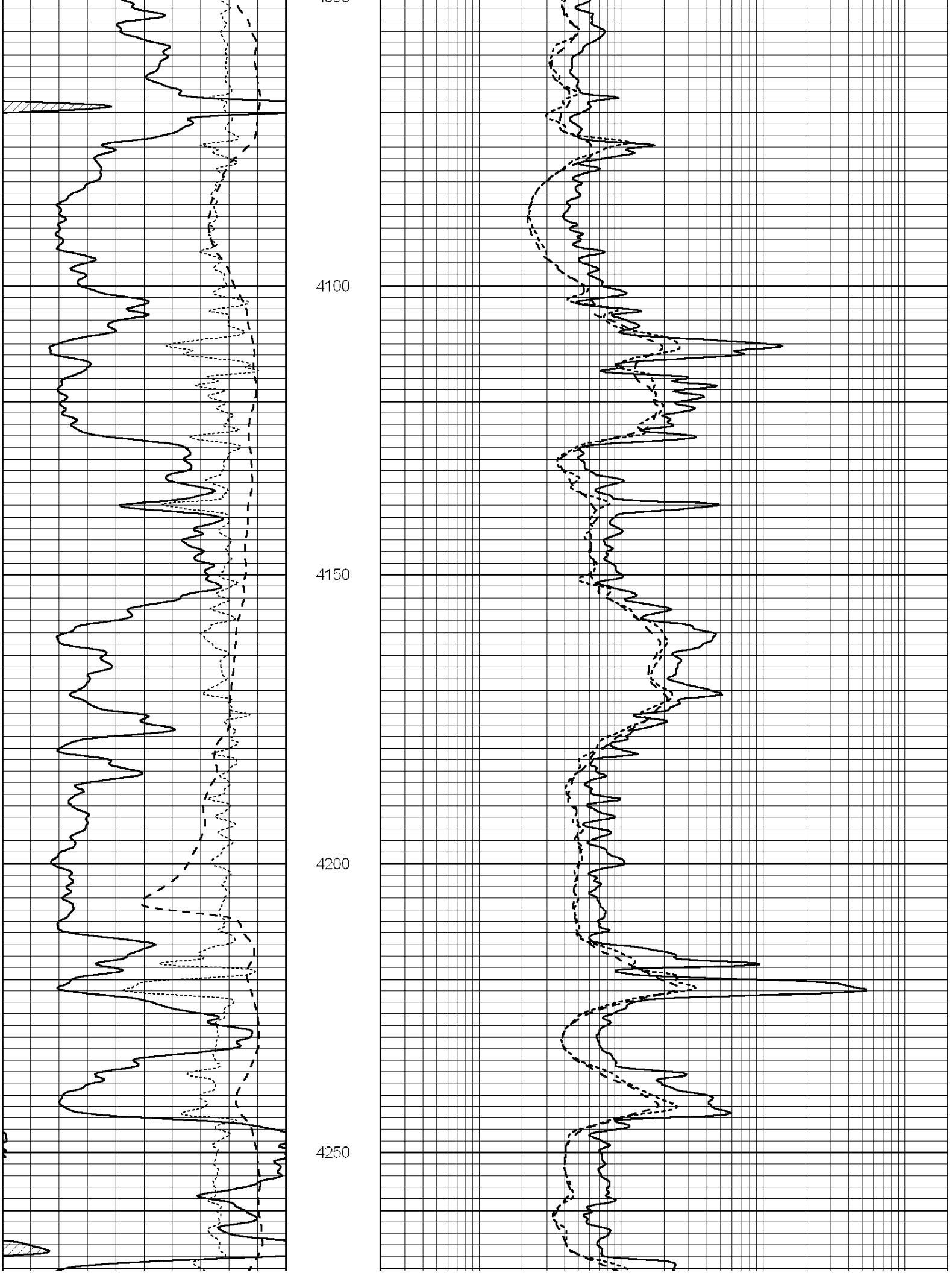
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File:	008094ddn.db
Dataset Pathname:	pass2.1
Presentation Format:	_dil
Dataset Creation:	Fri Dec 02 12:24:50 2011 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

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

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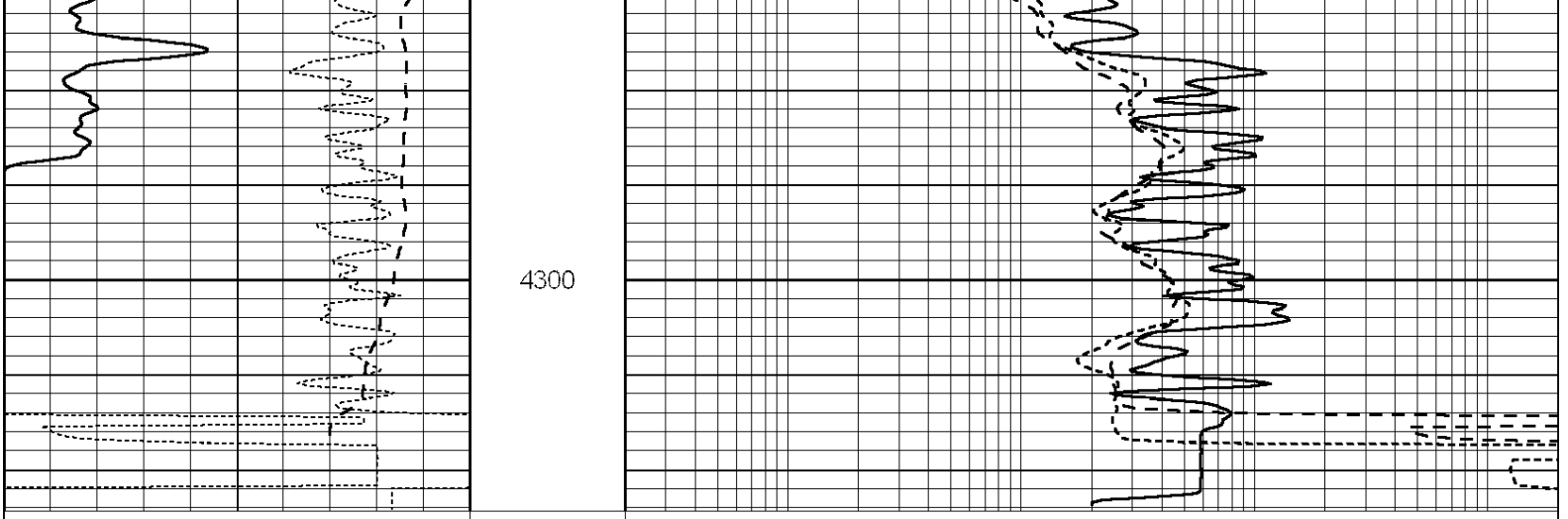

Calibration Report

Database File: 008094ddn.db
Dataset Pathname: pass3.1
Dataset Creation: Fri Dec 02 13:07:21 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Wed Jul 30 06:14:24 2008
Downhole Cal Performed:	Mon Jul 28 12:02:56 2008
After Survey Verification Performed:	Mon Jul 28 12:02:56 2008

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	8.759
Medium	0.039	0.728	V	0.000	464.000	mmho/m	673.322	-26.058
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

Compensated Density Calibration Report

Serial-Model:	GEAR4-GEARHART
Source / Verifier:	143 / 143
Master Calibration Performed:	Sat Jul 16 17:35:04 2011

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1015.91	497.51	cps
Aluminum	2.570	g/cc	227.67	350.20	cps

Spine Angle = 76.79 Density/Spine Ratio = 0.560

	Size		Reading	
Small Ring	8.00	in	2.24	V
Large Ring	14.00	in	4.38	V

Compensated Neutron Calibration Report

Serial Number:	6I
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:	#8	
Tool Model:	OPEN	
Performed:	Mon Jun 13 16:56:43 2011	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps
Sensitivity:	0.8371	GAPI/cps

SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

MICRO LOG

Company CAERUS KANSAS, LLC
Well GETTY #33-34
Field
County STAFFORD State KANSAS
Location: API # : 15-185-23718-0000
346' FNL & 1808' FEL
NW-SE-SW-SE
SEC 33 TWP 24S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1970
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
DIL/SON

Elevation
K.B. 1979
D.F. 1977
G.L. 1970

Company	CAERUS KANSAS, LLC.		
Well	GETTY #33-34		
Field			
County	STAFFORD		
State	KANSAS		

Date	12/2/11		
Run Number	TWO		
Depth Driller	4320		
Depth Logger	4318		
Bottom Logged Interval	4300		
Top Log Interval	2500		
Casing Driller	8 5/8" @ 262		
Casing Logger	261		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 10000 PPM	
Density / Viscosity	9.3/58		
pH / Fluid Loss	9.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.40 @ 67F		
Rmf @ Meas. Temp	.30 @ 67F		
Rmc @ Meas. Temp	.48 @ 67F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.22 @ 118F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	118F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JEFF LAWLER		

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Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
MACKSVILLE, KS - EAST 5 MILES TO RD 70 - 3 S. - 3/4 E. - N. INTO

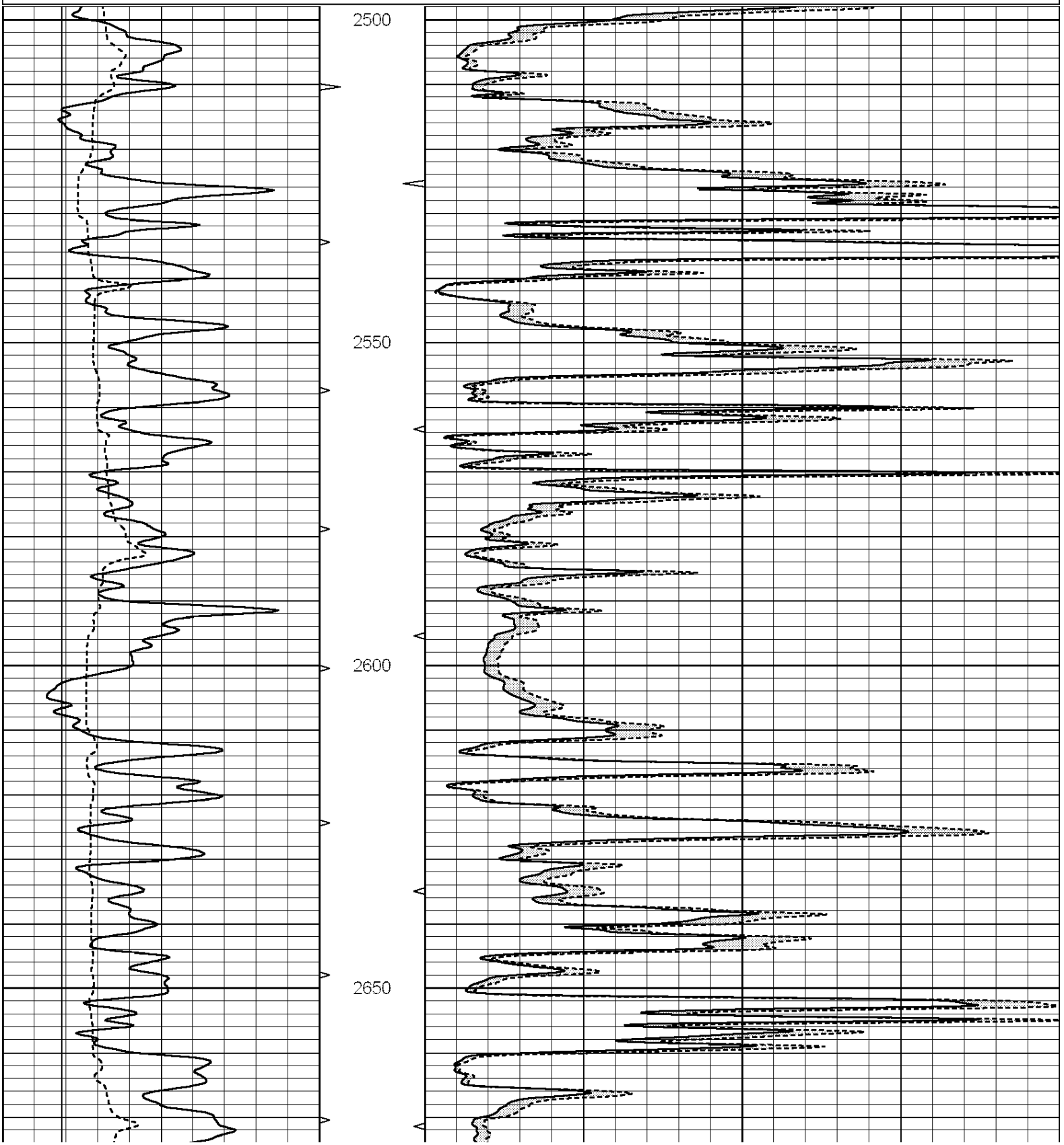
SUPERIOR WELL SERVICES

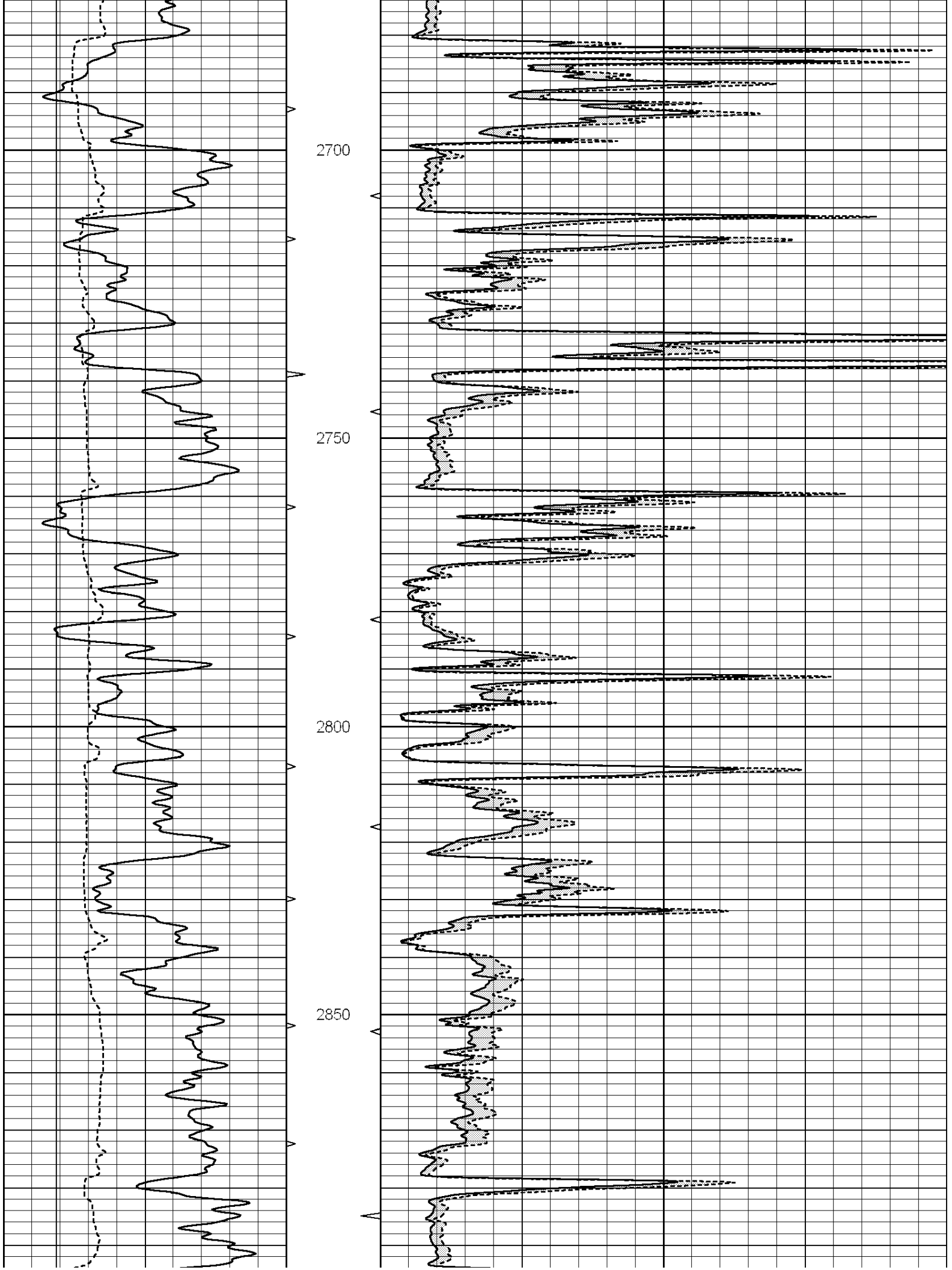
SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File:	008094ddn.db
Dataset Pathname:	pass7.1
Presentation Format:	_micro
Dataset Creation:	Fri Dec 02 16:02:21 2011 by Calc Open-Cased 090629
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	MEL2.0 (Ohm-m) 40
		TBHV			
		0 (ft3) 10			

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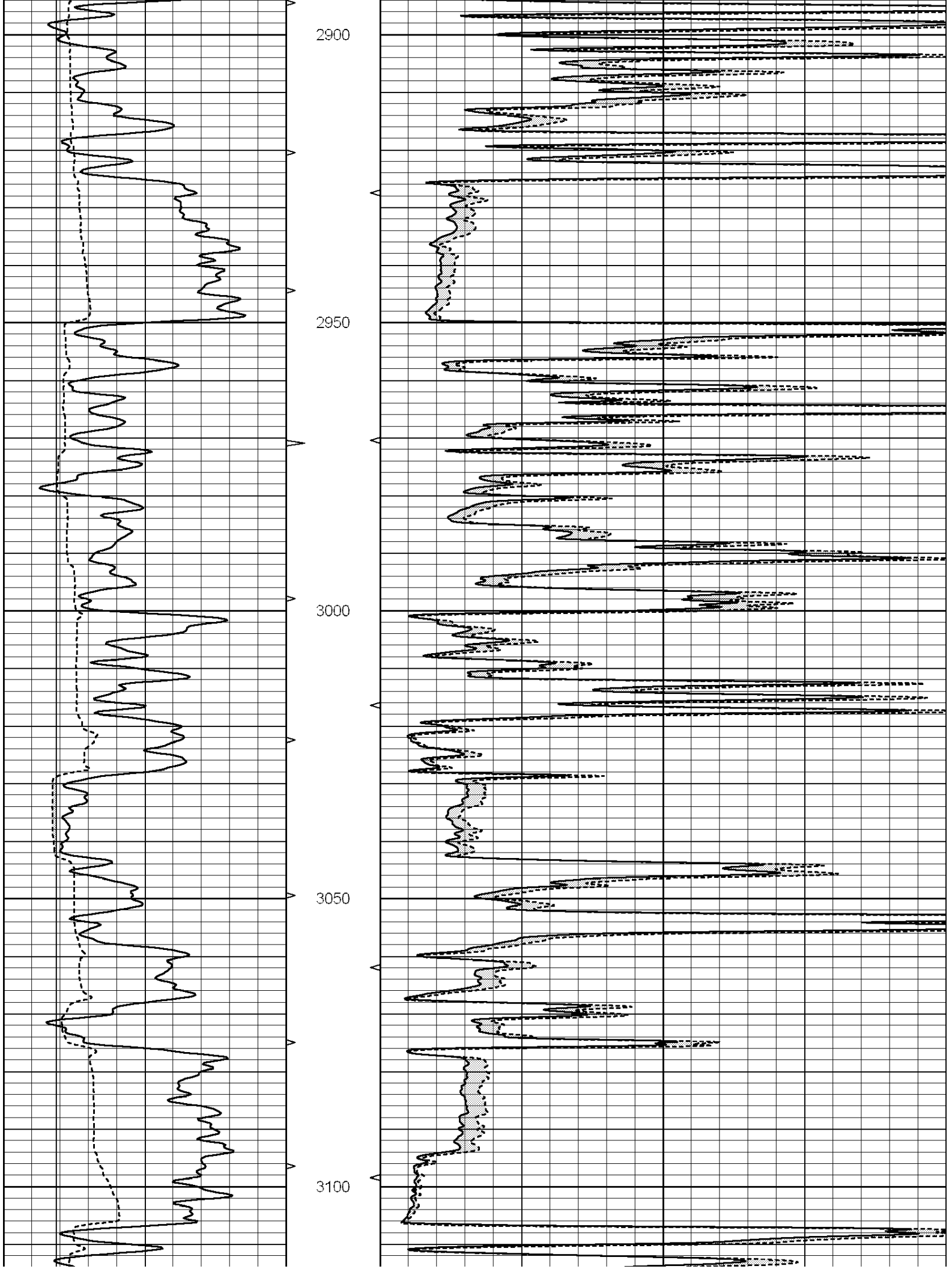
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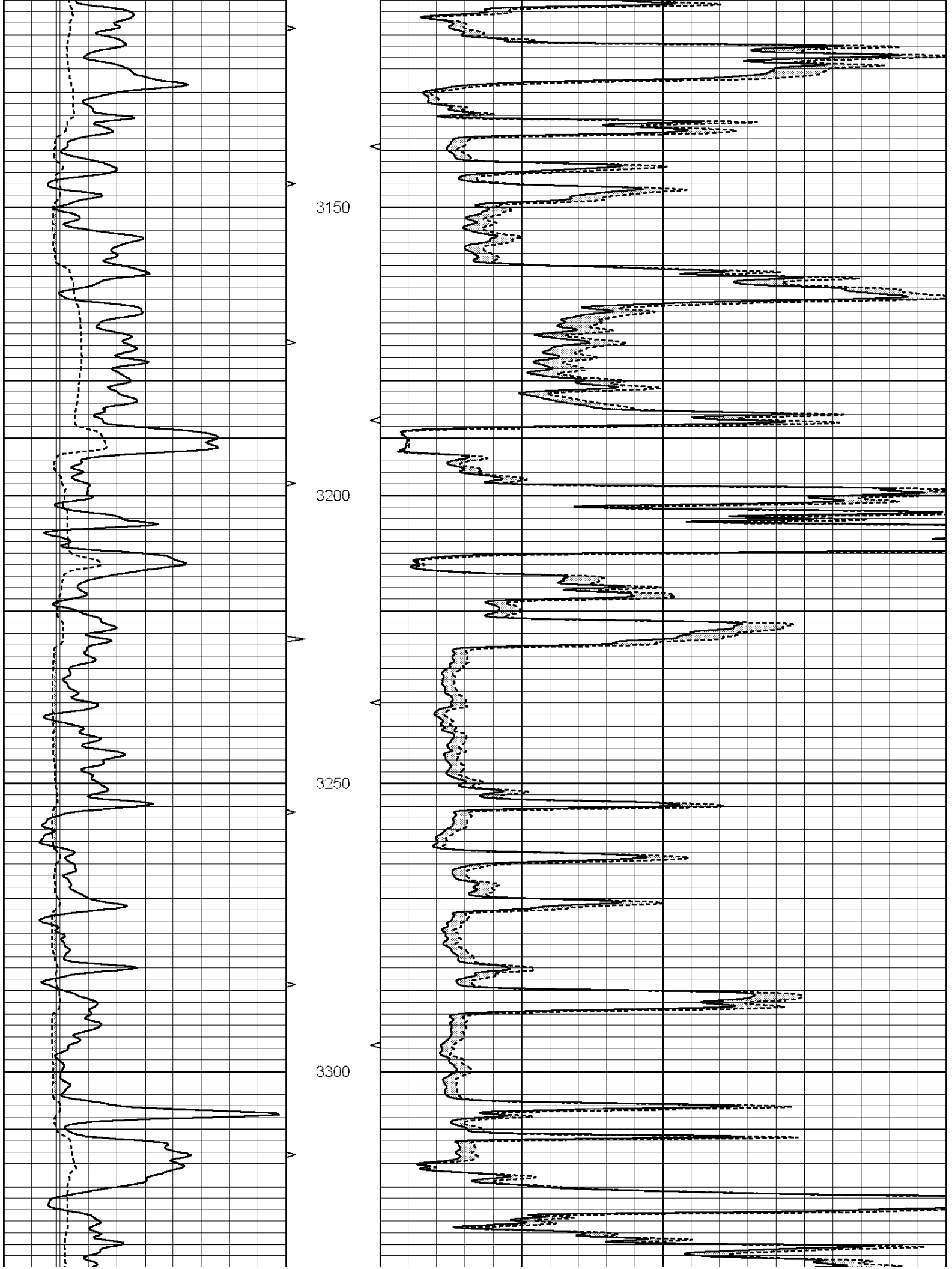
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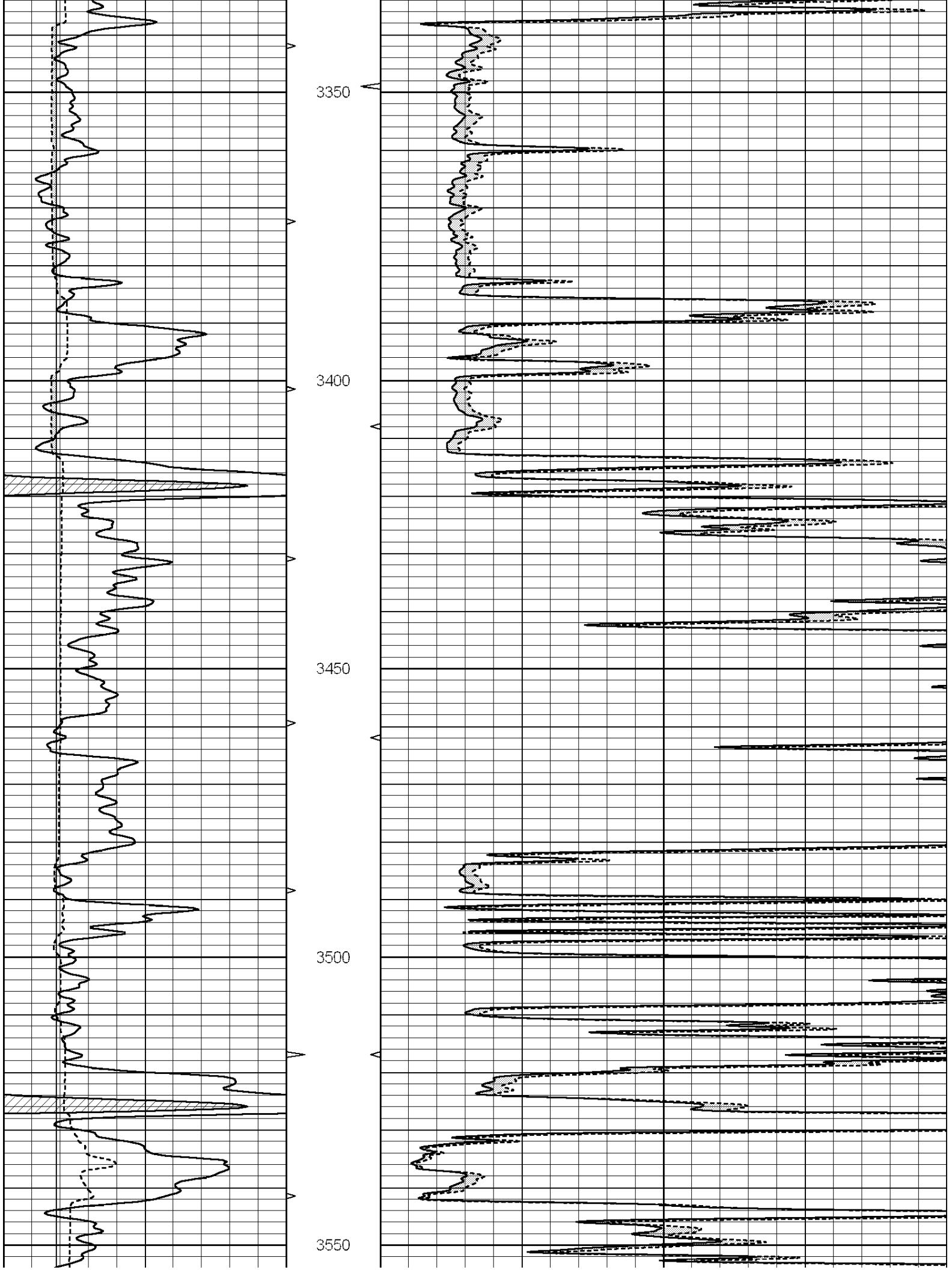
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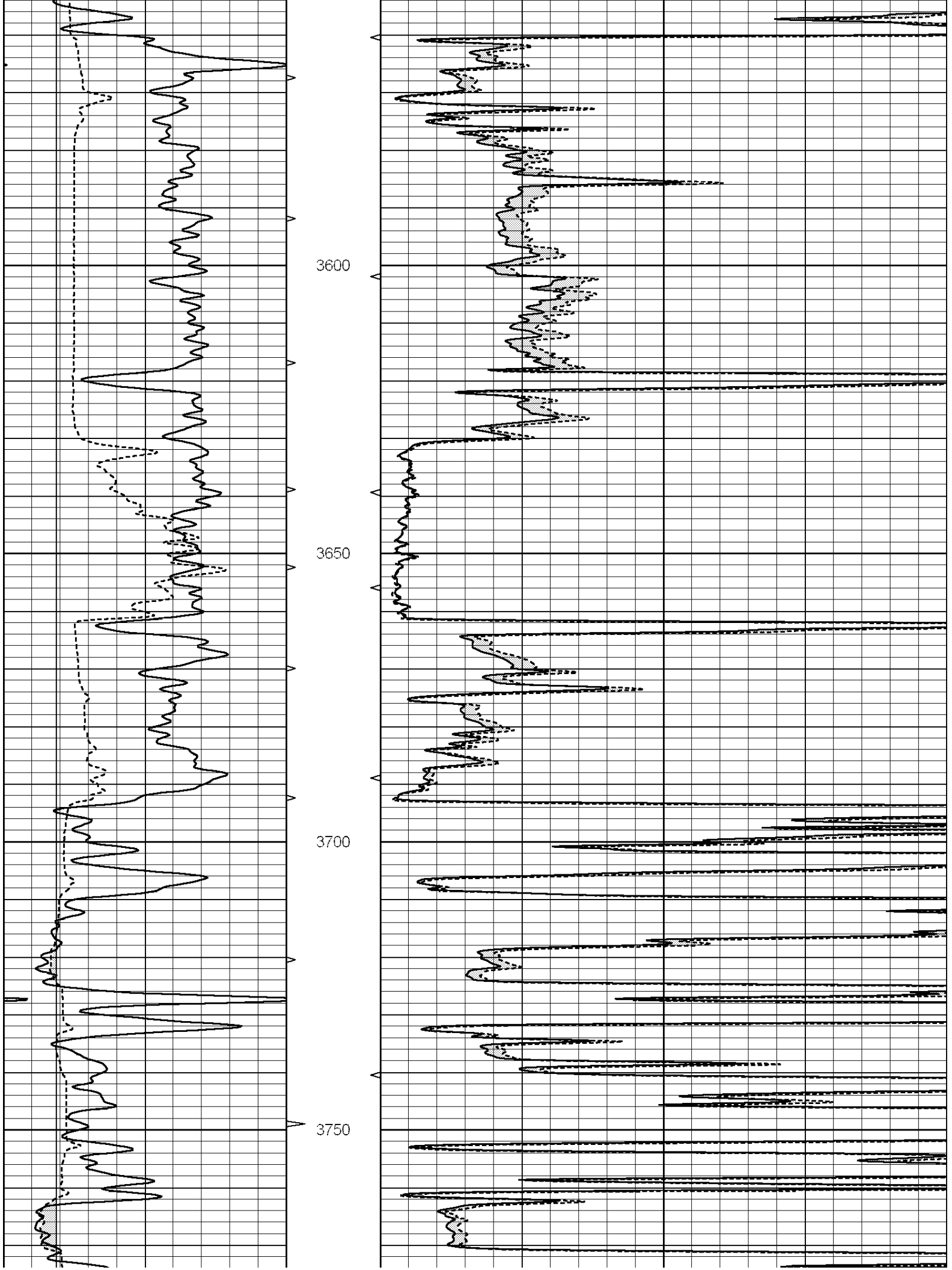
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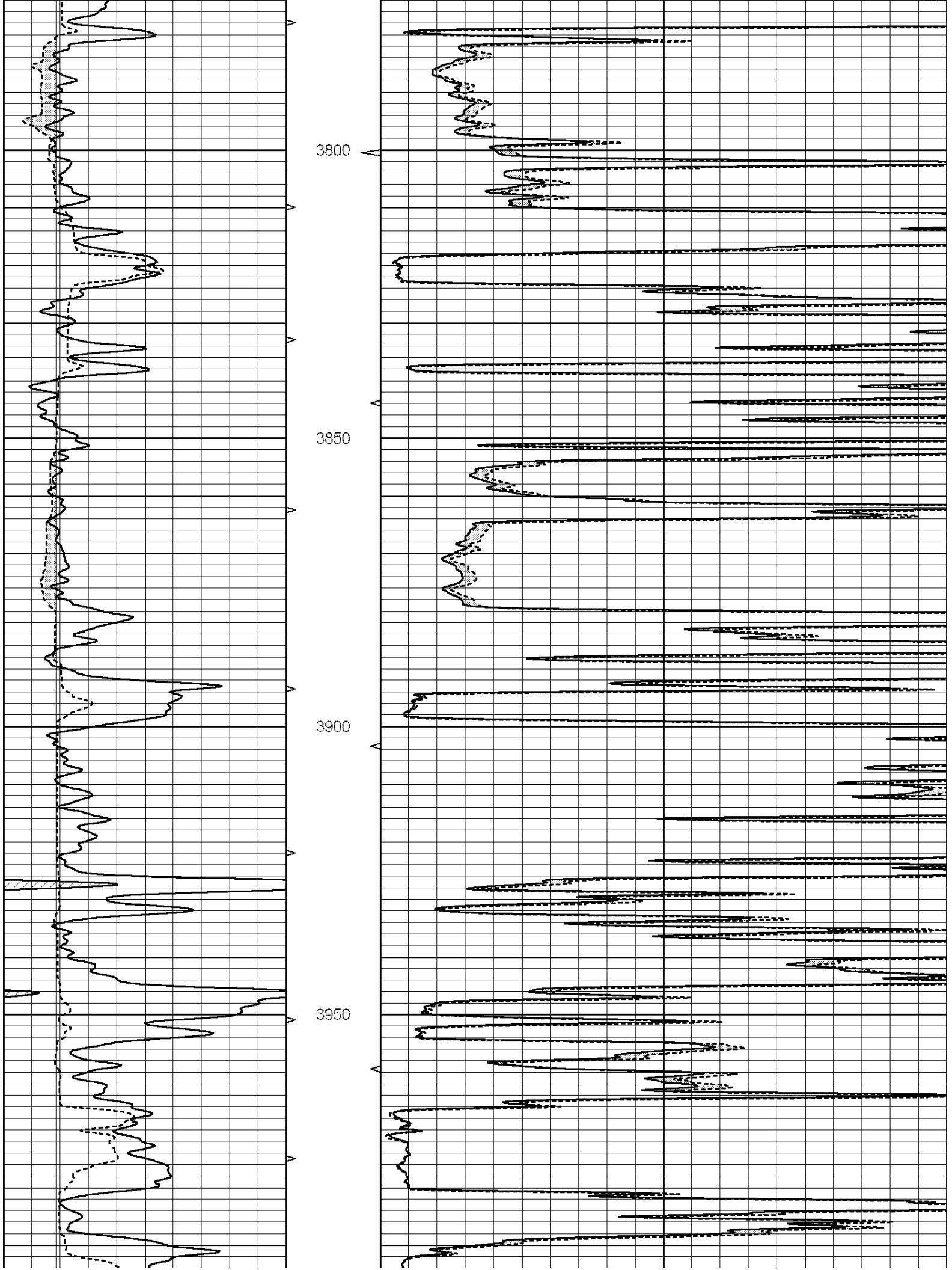
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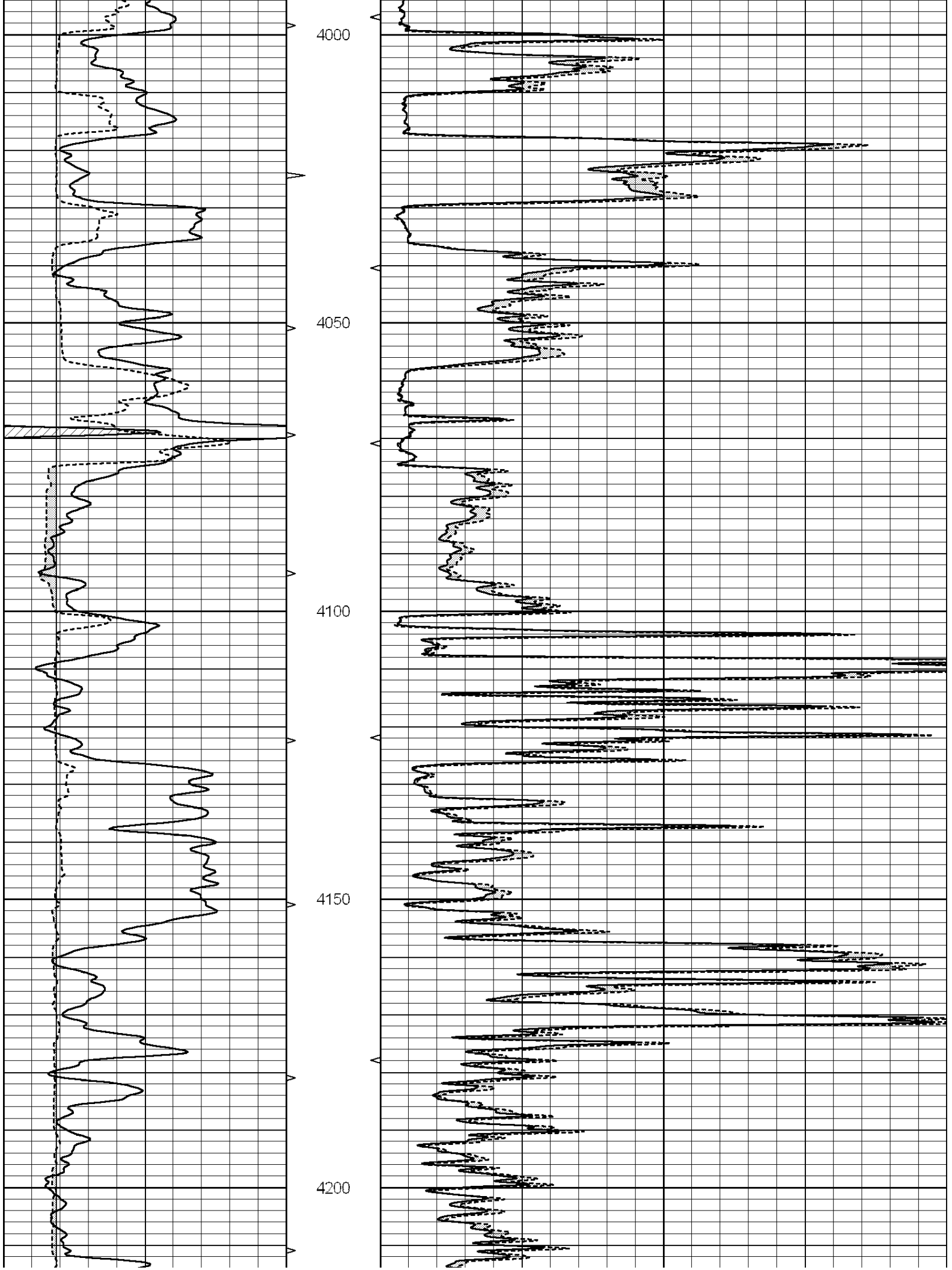
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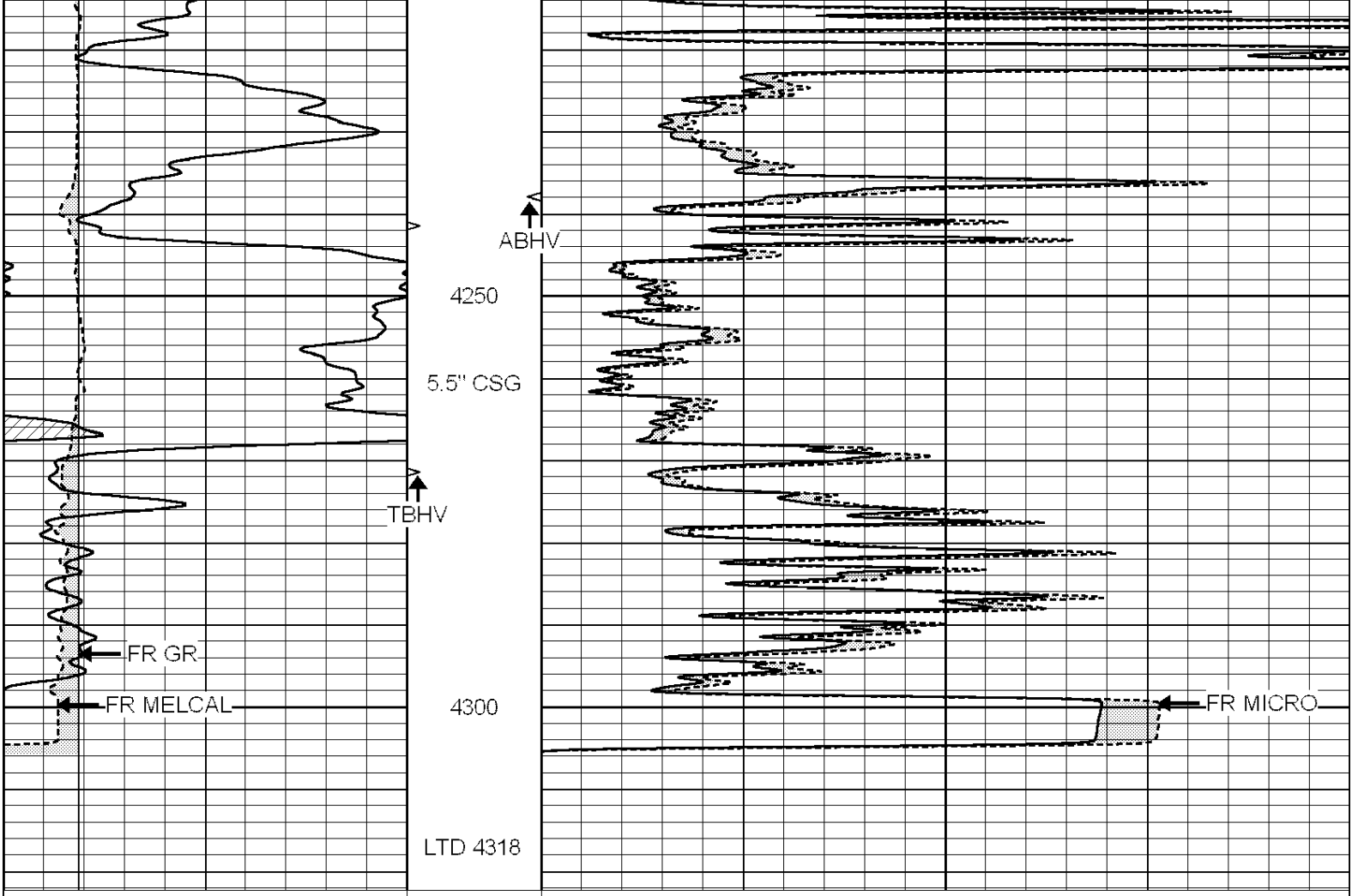


0	GAMMA RAY (GAPI) 150	ABHV		0	MEL1.5 (Ohm-m) 40
6	CALIPER (in) 16	10 (ft3) 0		0	MEL2.0 (Ohm-m) 40
		TBHV			
		0 (ft3) 10			

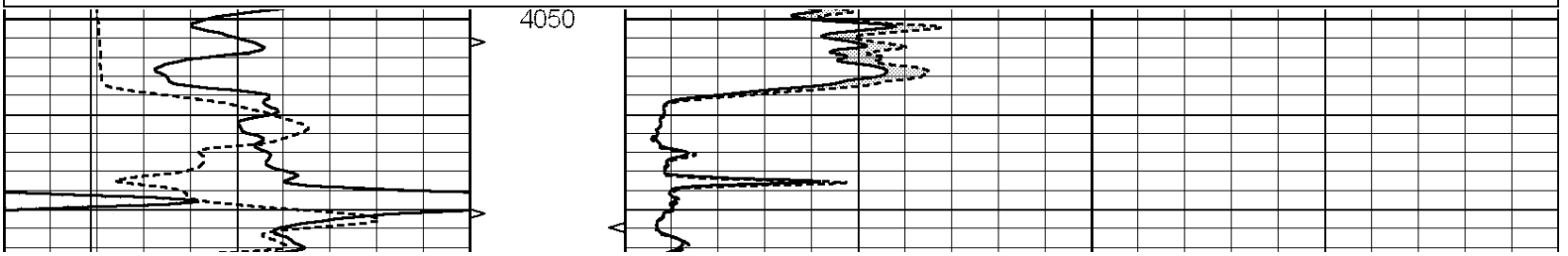
SUPERIOR WELL SERVICES

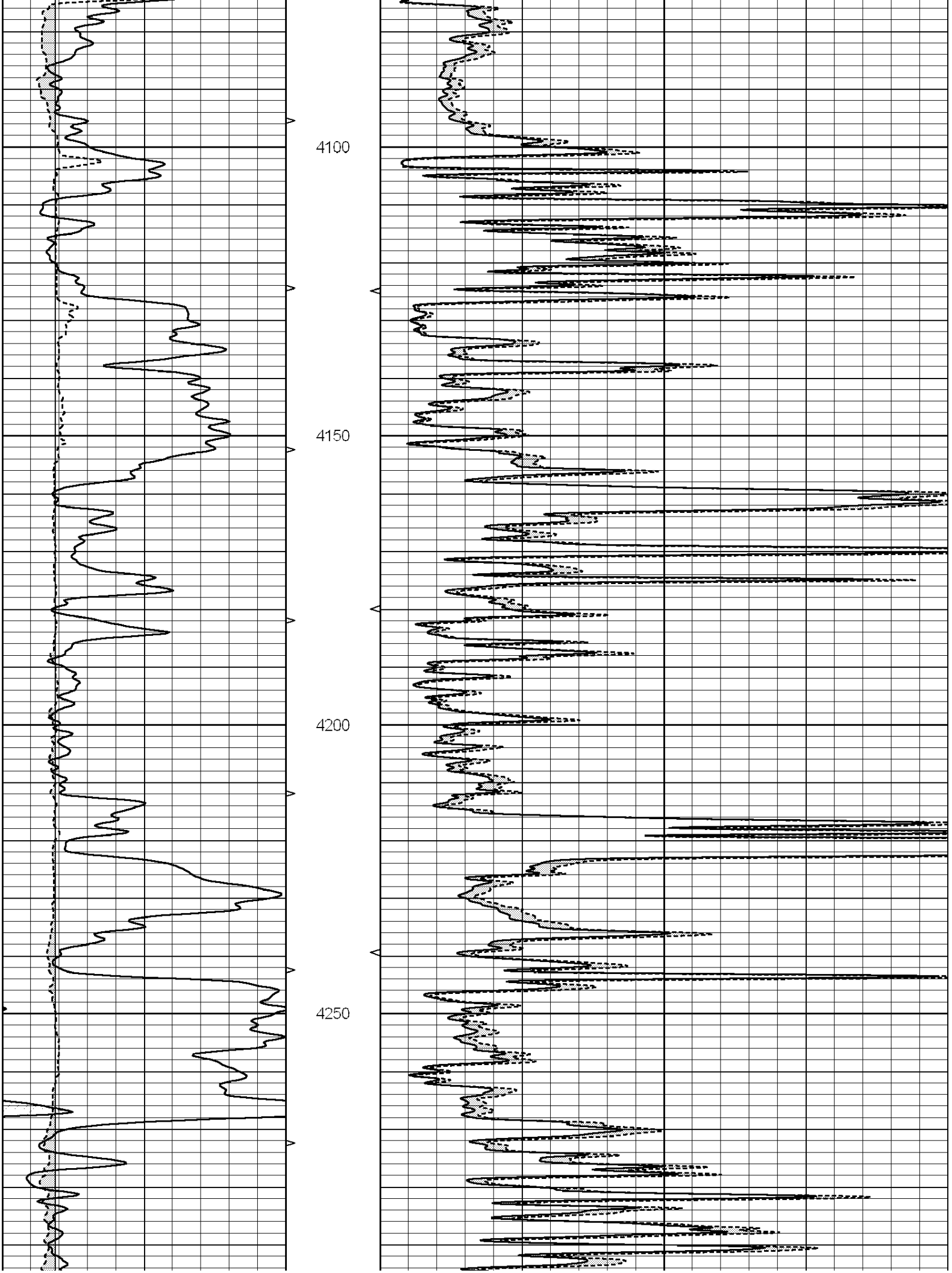
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File:	008094ddn.db
Dataset Pathname:	pass6.1
Presentation Format:	_micro
Dataset Creation:	Fri Dec 02 15:27:38 2011 by Calc Open-Cased 090629
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	MEL2.0 (Ohm-m) 40
		TBHV			
		0 (ft3) 10			

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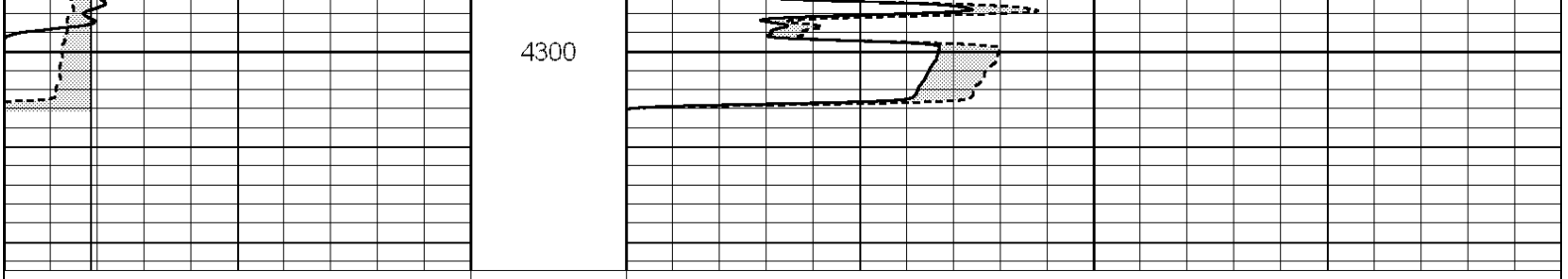

0	GAMMA RAY (GAPI) 150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in) 16	10 (ft3) 0	0	MEL2.0 (Ohm-m)	40
		TBHV			
		0 (ft3) 10			

Calibration Report

Database File: 008094ddn.db
Dataset Pathname: pass7.1
Dataset Creation: Fri Dec 02 16:02:21 2011 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number:	MICRO6	
Tool Model:	PROBE	
Performed:	Sun Nov 20 13:54:16 2011	
Caliper Calibration:	Gain=5.211	Offset=-0.060
	Low Cal	High Cal
References	8.000	14.000
Readings	1.178	2.330
1.5" Calibration:	Gain=30.075	Offset=-0.150
	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	1.196
2" Calibration:	Gain=87.041	Offset=-1.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.006	0.913

Gamma Ray Calibration Report

Serial Number:	#8	
Tool Model:	OPEN	
Performed:	Mon Jun 13 16:56:43 2011	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps
Sensitivity:	0.8371	GAPI/cps

SUPERIOR
Hays,
Kansas

COMPENSATED DENSITY/NEUTRON LOG

Company CAERUS KANSAS, LLC.
Well GETTY #33-34
Field
County STAFFORD
State KANSAS

Company CAERUS KANSAS, LLC

Well GETTY #33-34

Field

County STAFFORD State KANSAS

Location: API # : 15-185-23718-0000
346' FNL & 1808' FEL
NW-SE-SW-SE
SEC 33 TWP 24S RGE 14W

Other Services
DIL
MEL/SON

Permanent Datum GROUND LEVEL Elevation 1970
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1979
D.F. 1977
G.L. 1970

Date	12/2/11		
Run Number	ONE		
Depth Driller	4320		
Depth Logger	4318		
Bottom Logged Interval	4294		
Top Log Interval	2500		
Casing Driller	8 5/8" @ 262		
Casing Logger	261		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 10000 PPM	
Density / Viscosity	9.3/58		
pH / Fluid Loss	9.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.40 @ 67F		
Rmf @ Meas. Temp	.30 @ 67F		
Rmc @ Meas. Temp	.48 @ 67F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.22 @ 118F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	118F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JEFF LAWLER		

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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

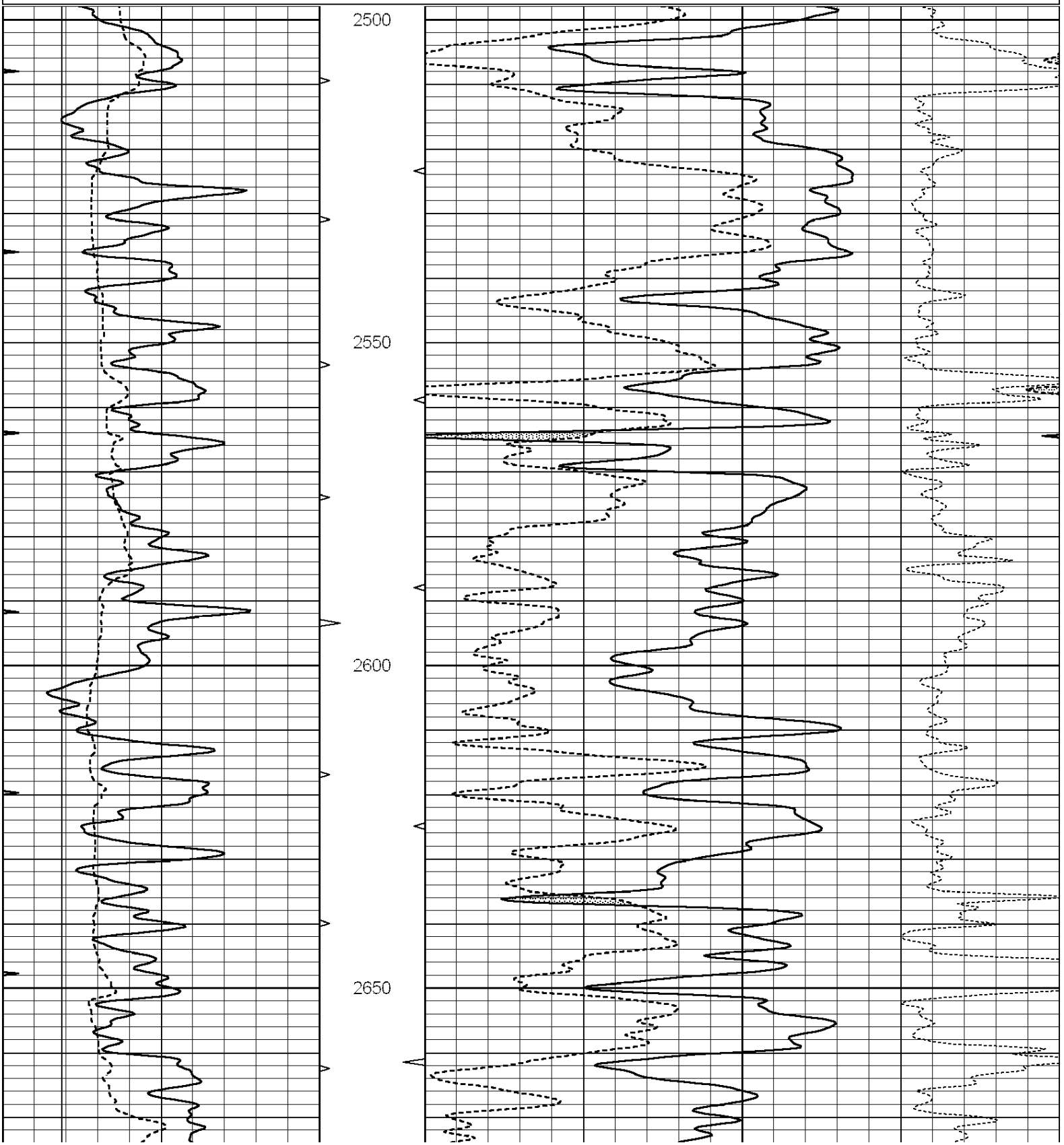
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
MACKSVILLE, KS - EAST 5 MILES TO RD 70 - 3 S. - 3/4 E. - N. INTO

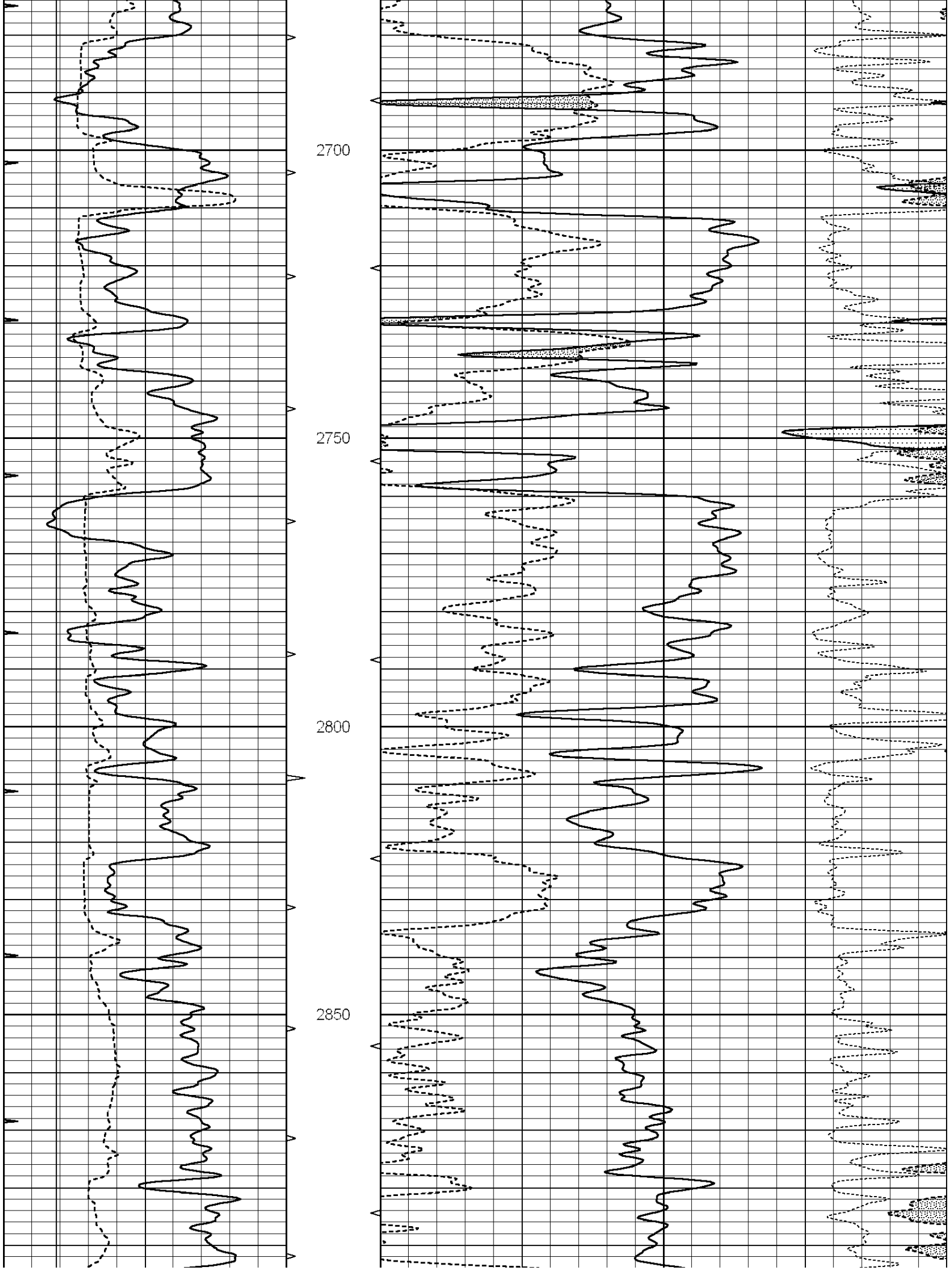
MAIN SECTION

SUPERIOR
Hays,
Kansas

Database File:	008094ddn.db
Dataset Pathname:	pass3.1
Presentation Format:	_den_neu
Dataset Creation:	Fri Dec 02 13:07:21 2011 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

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

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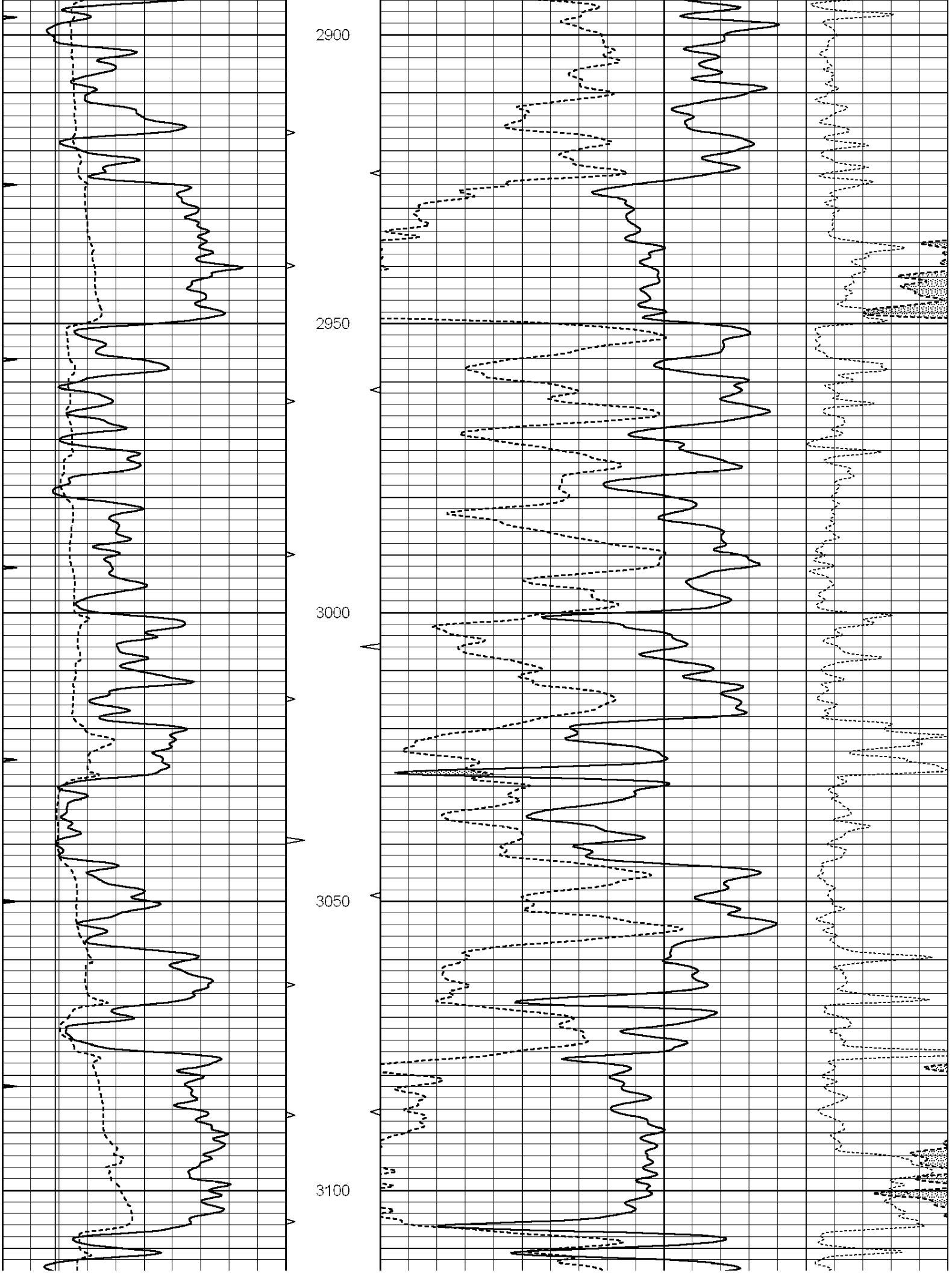
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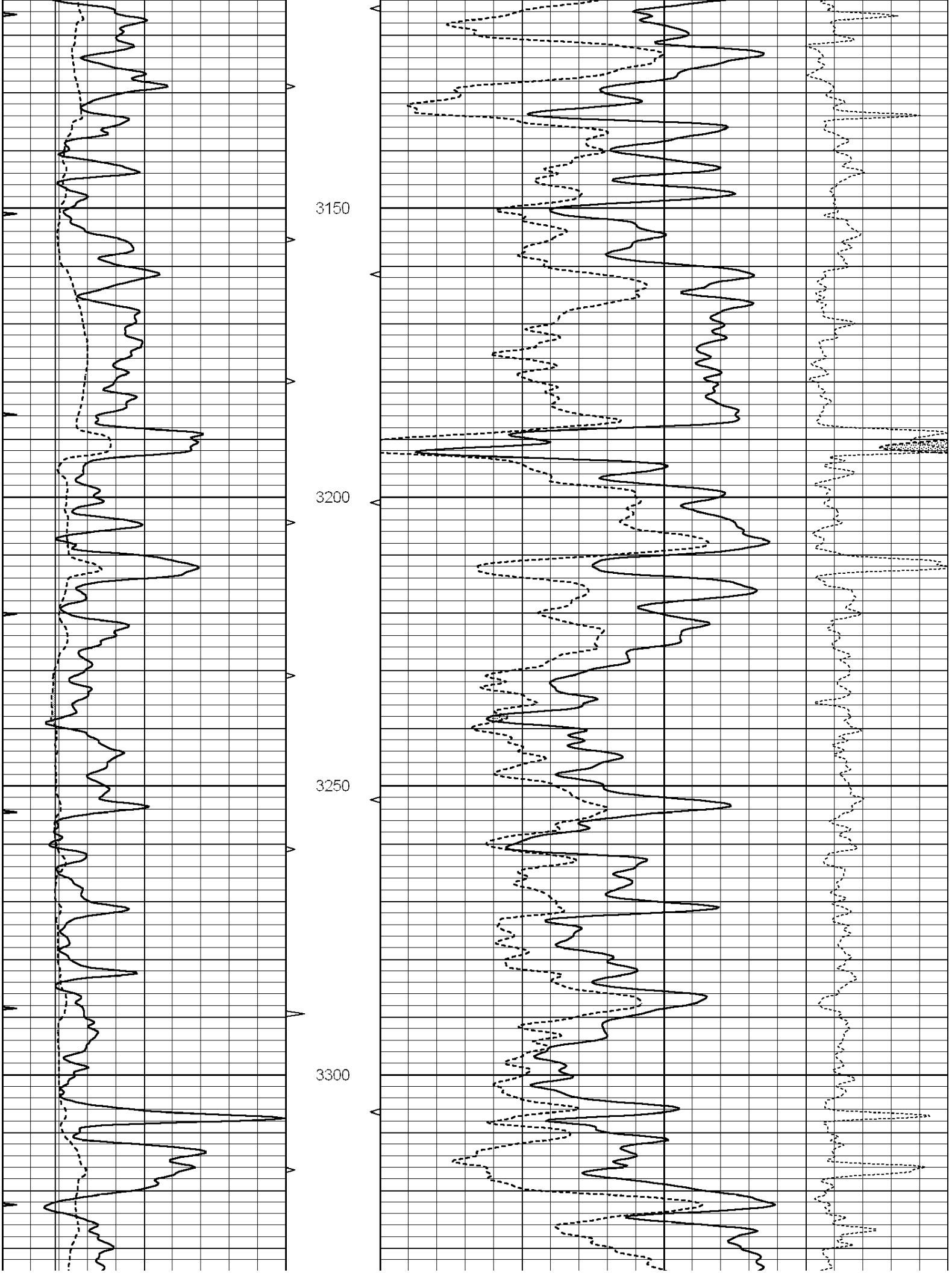
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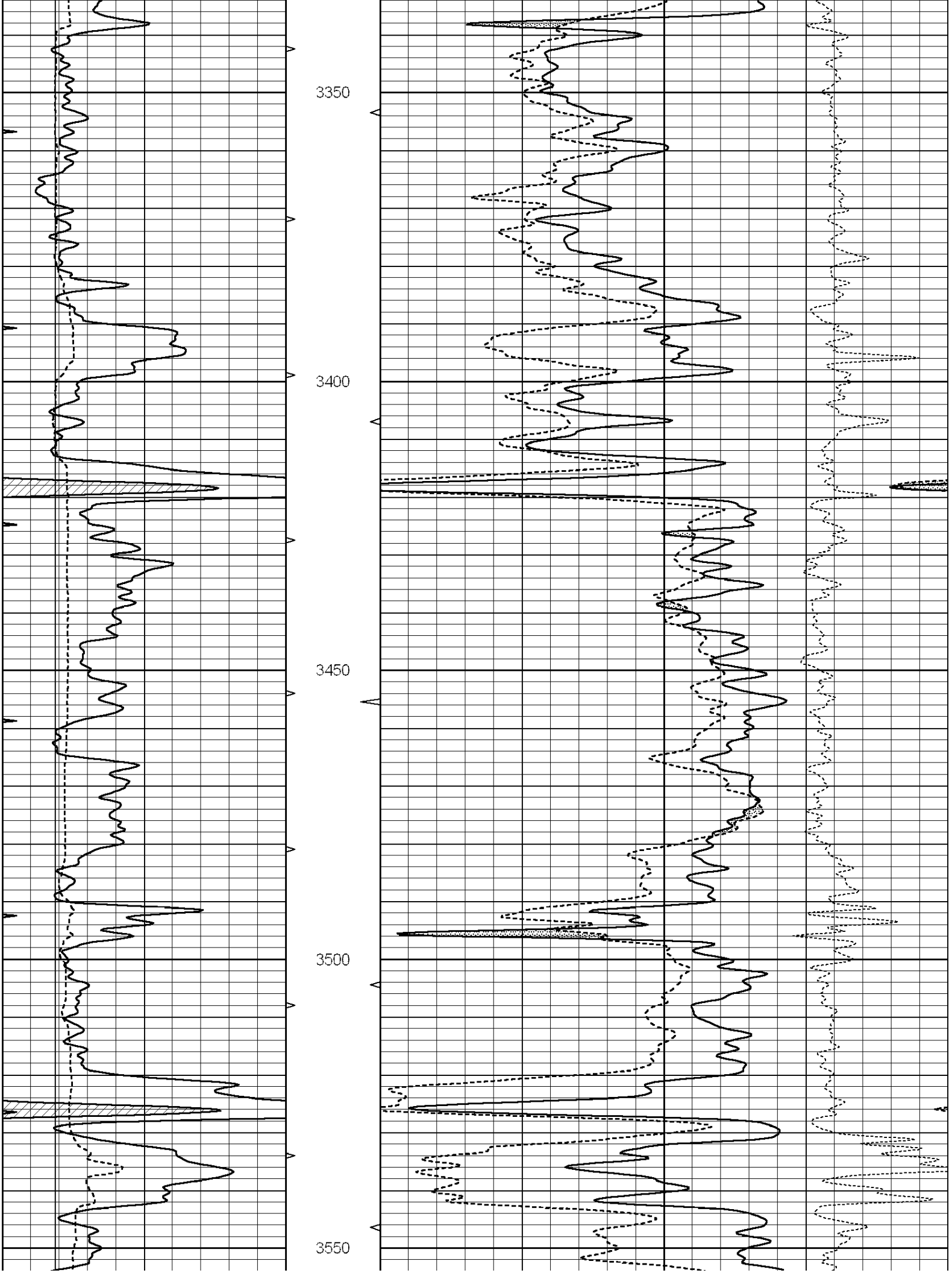
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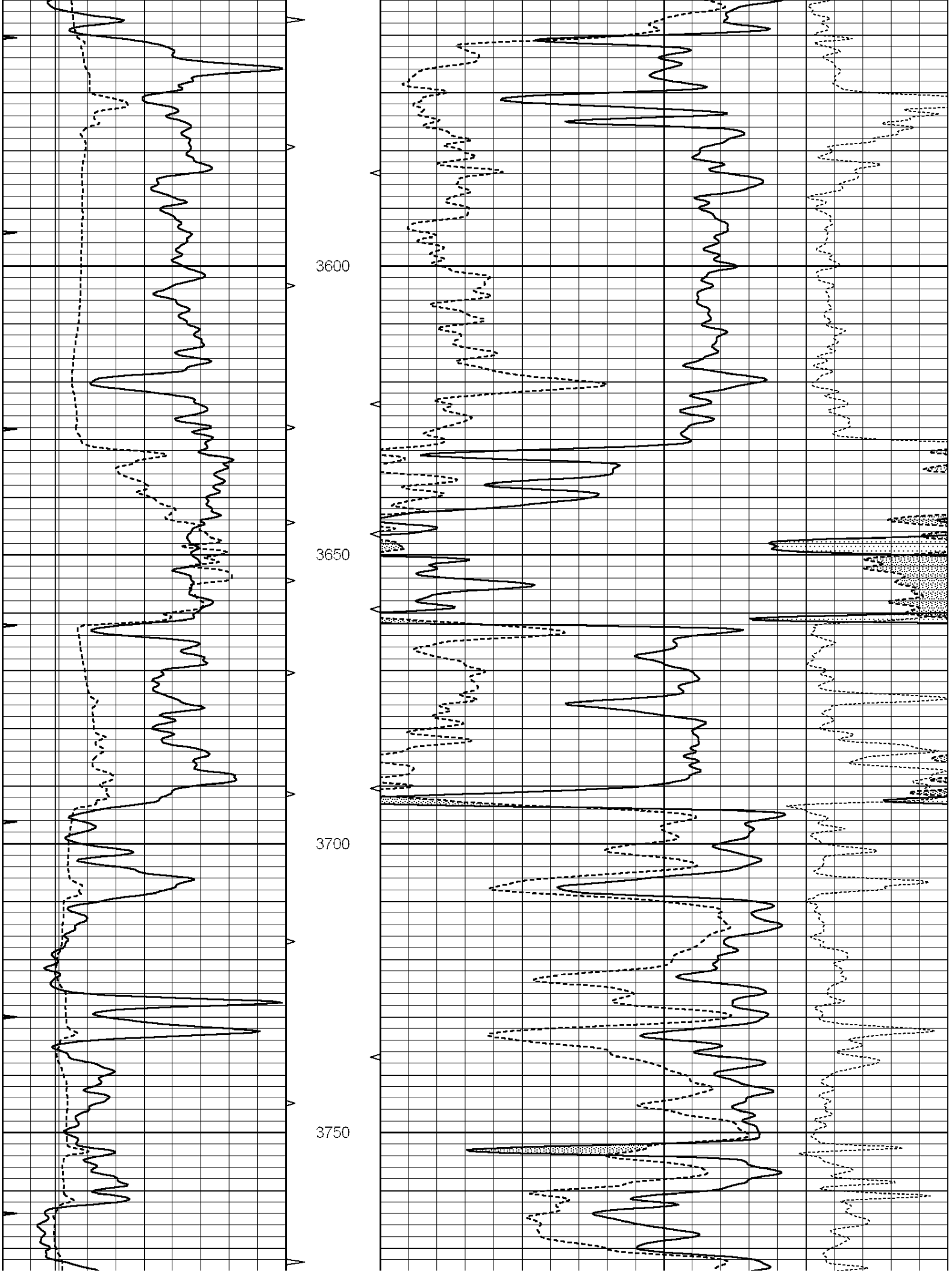
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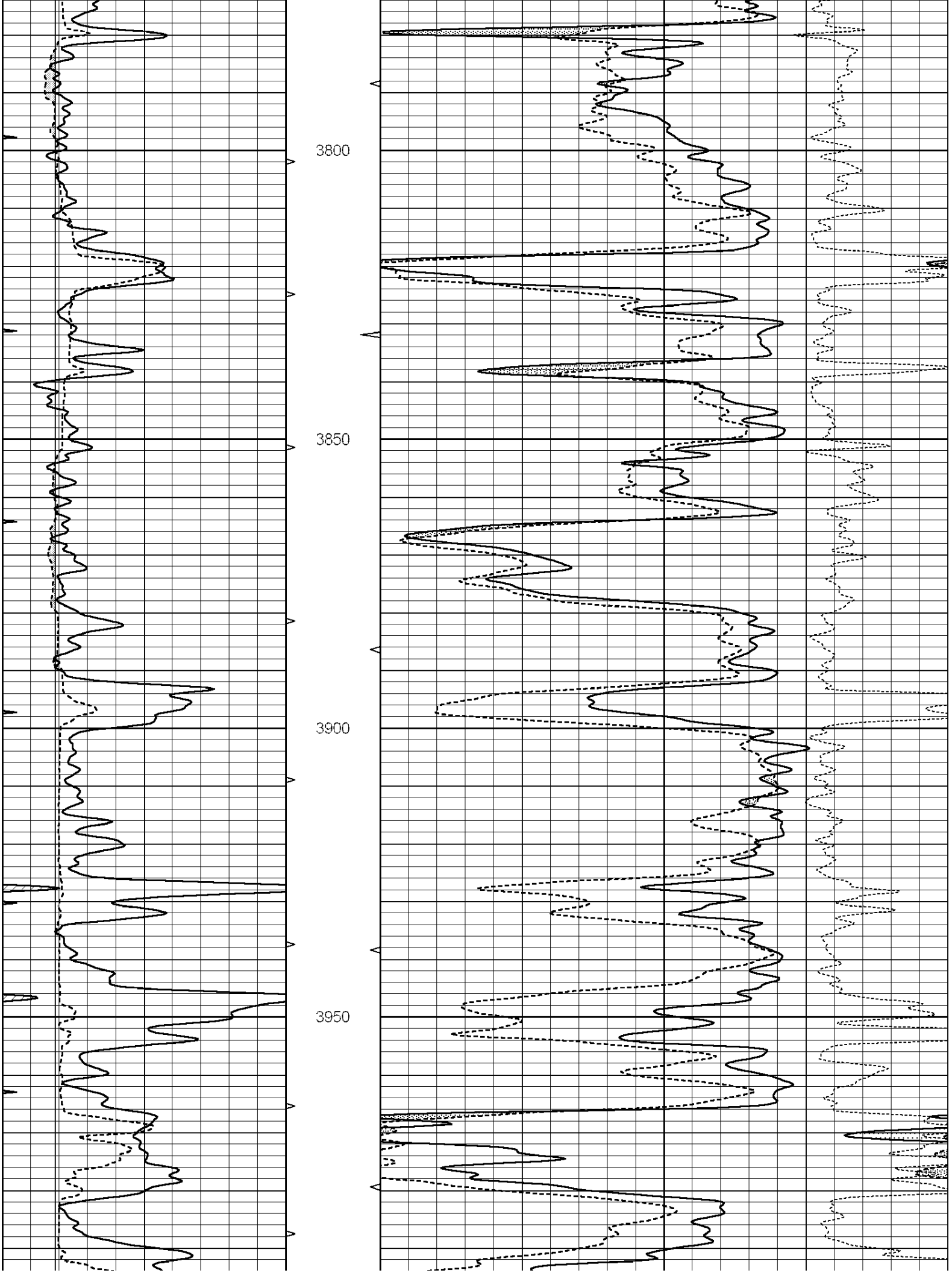
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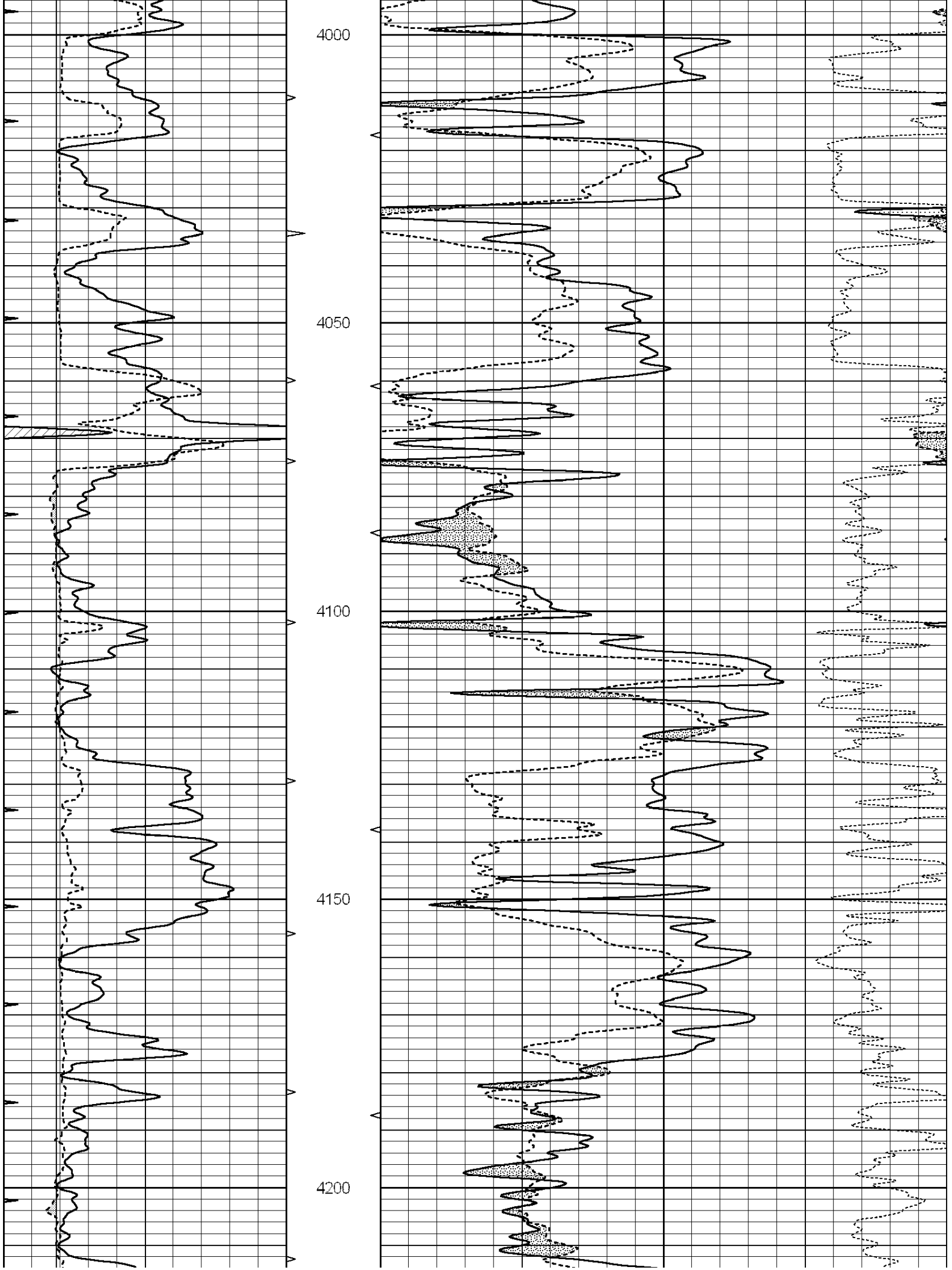
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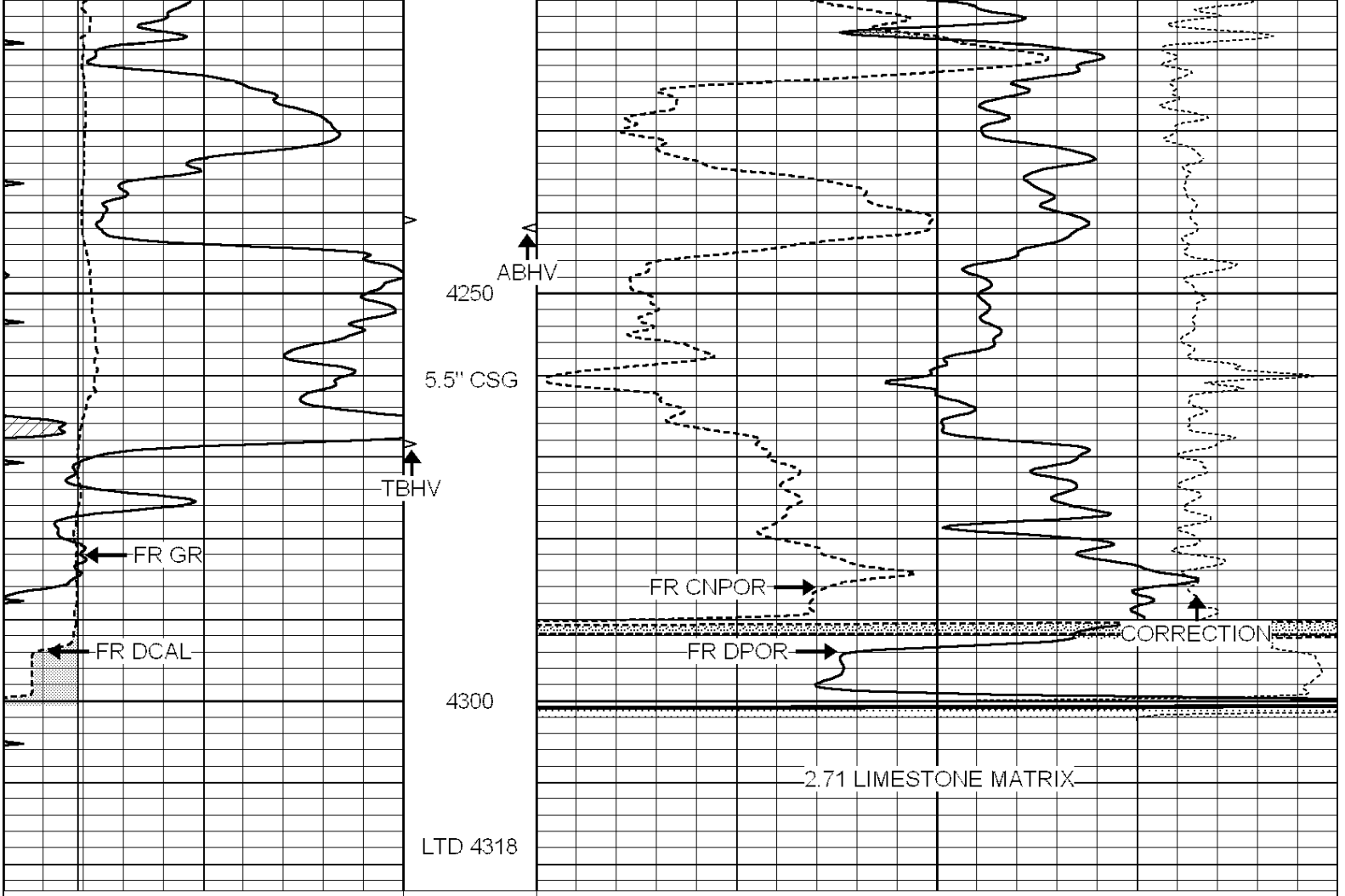


0	GAMMA RAY (GAPI)	150	AVTX		30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX			-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10			

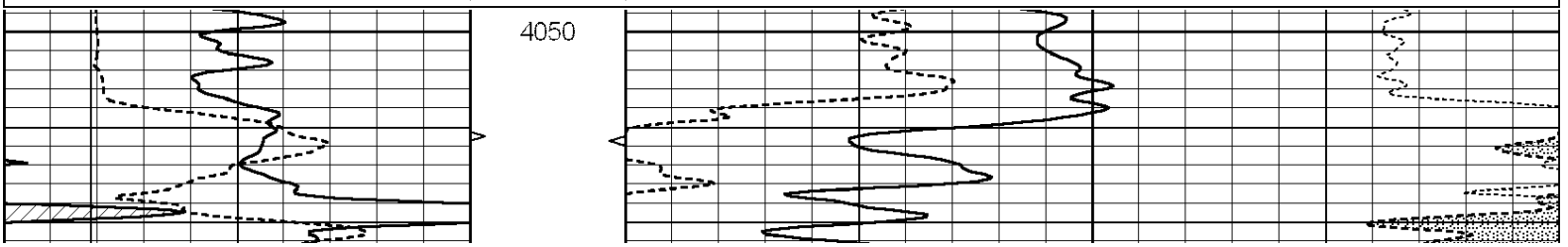
SUPERIOR WELL SERVICES

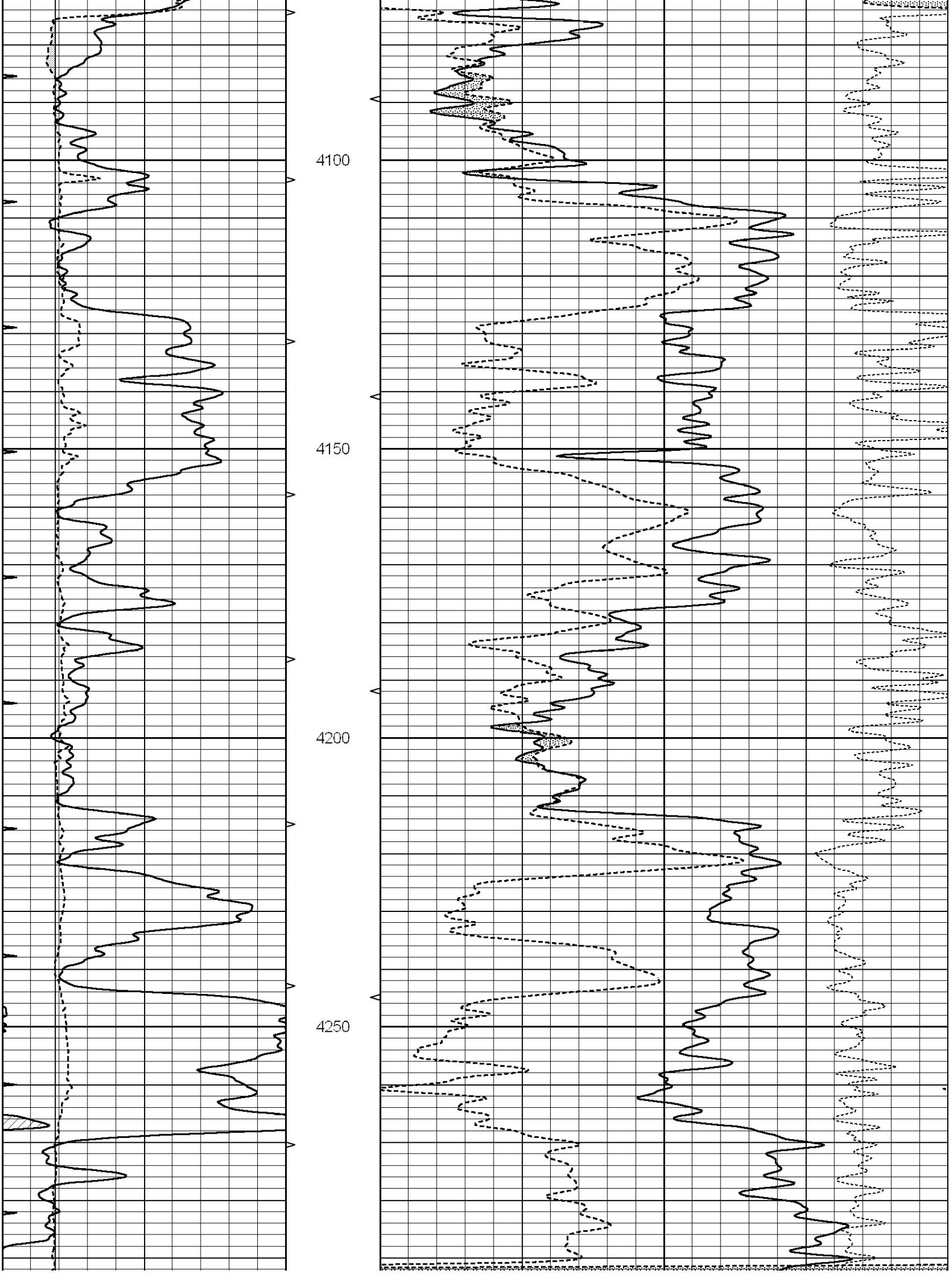
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File:	008094ddn.db
Dataset Pathname:	pass2.1
Presentation Format:	_den_neu
Dataset Creation:	Fri Dec 02 12:24:50 2011 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

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

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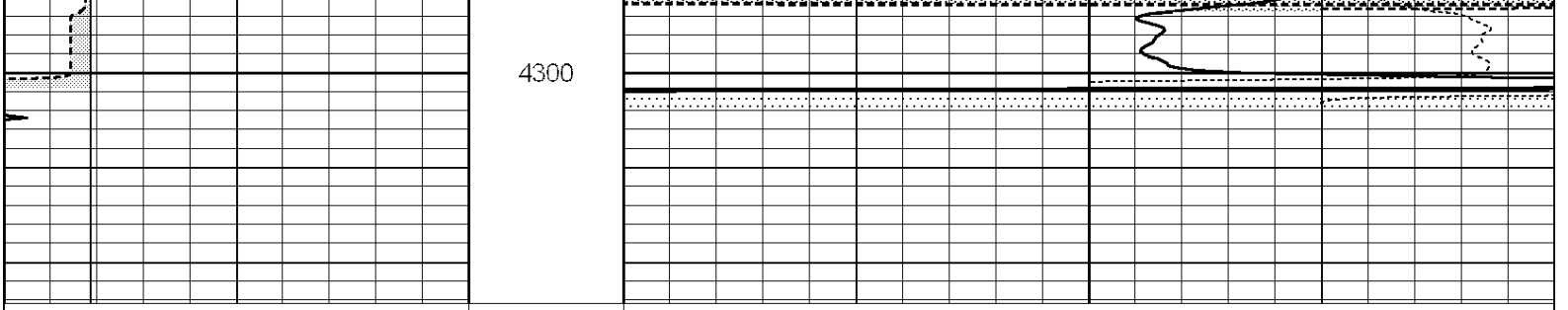


0	GAMMA RAY (GAPI) 150	AVTX		30	COMPENSATED DENSITY (pu) -10
6	CALIPER (in) 16	10 (ft3) 0		30	COMPENSATED NEUTRON (pu) -10
0	MINMK 20	BVTX			-0.25 CORRECTION (g/cc) 0.25
		0 (ft3) 10			

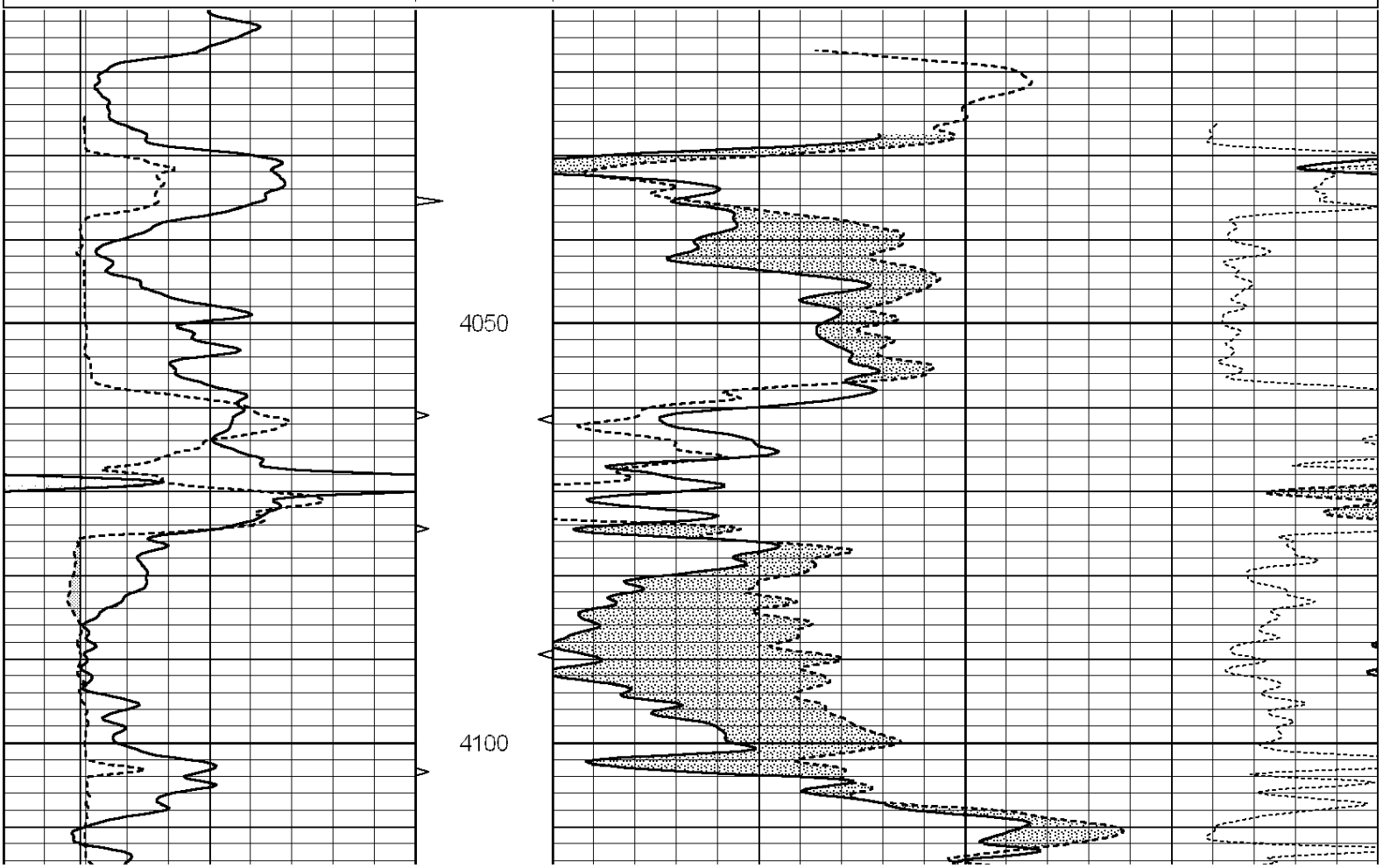
SUPERIOR WELL SERVICES

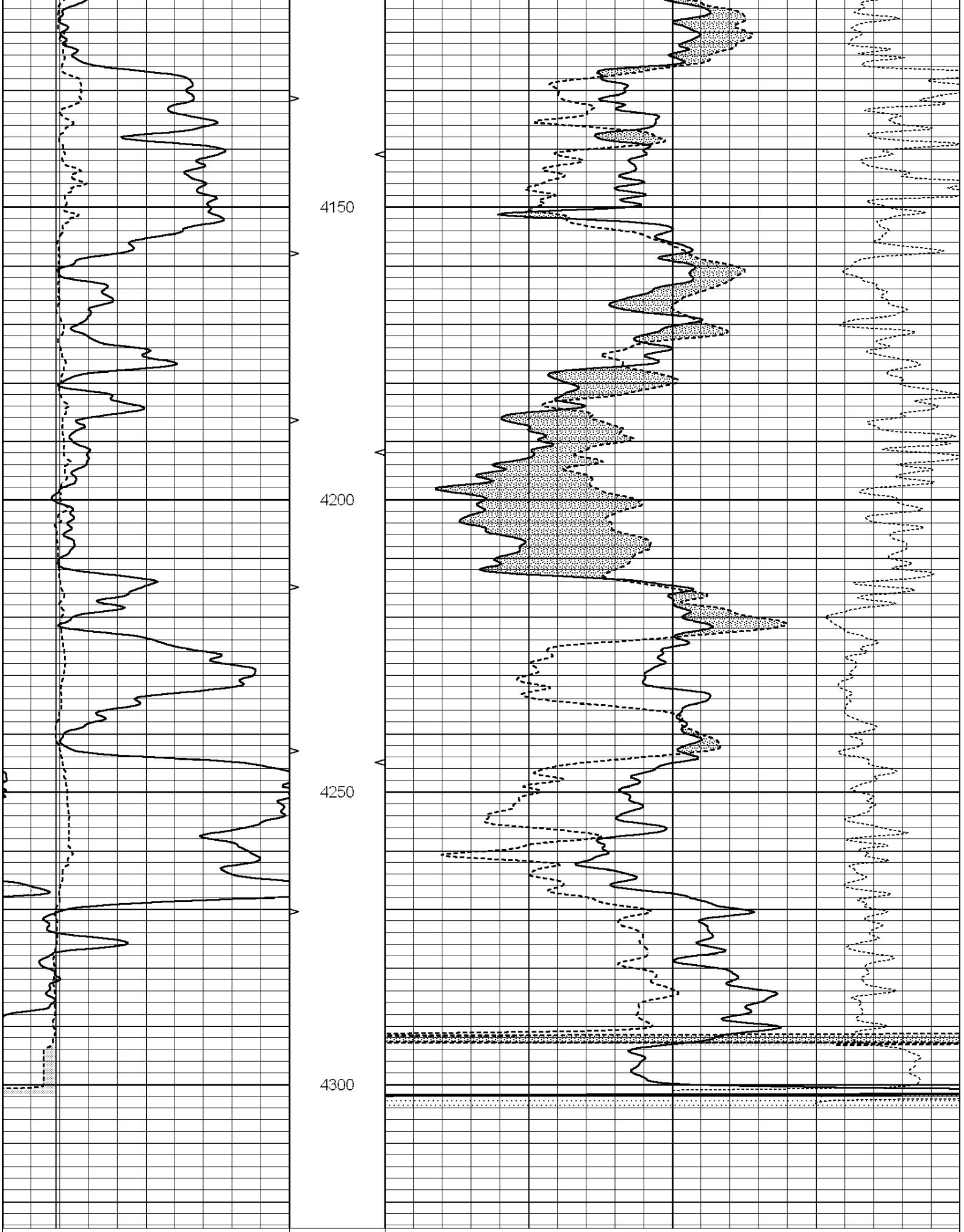
SUPERIOR
Hays,
Kansas

2.81 DOLOMITE MATRIX

Database File: 008094ddn.db
Dataset Pathname: pass2.1.1
Presentation Format: _den_neu
Dataset Creation: Fri Dec 02 12:03:42 2011
Charted by: Depth in Feet scaled 1:240

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




4150
4200
4250
4300
0
GAMMA RAY (GAPI)
150
AVTX
30
COMPENSATED DENSITY (pu)
-10
6
CALIPER (in)
16
10
(ft3)
0
30
COMPENSATED NEUTRON (pu)
-10

BVTX
0 (ft3) 10

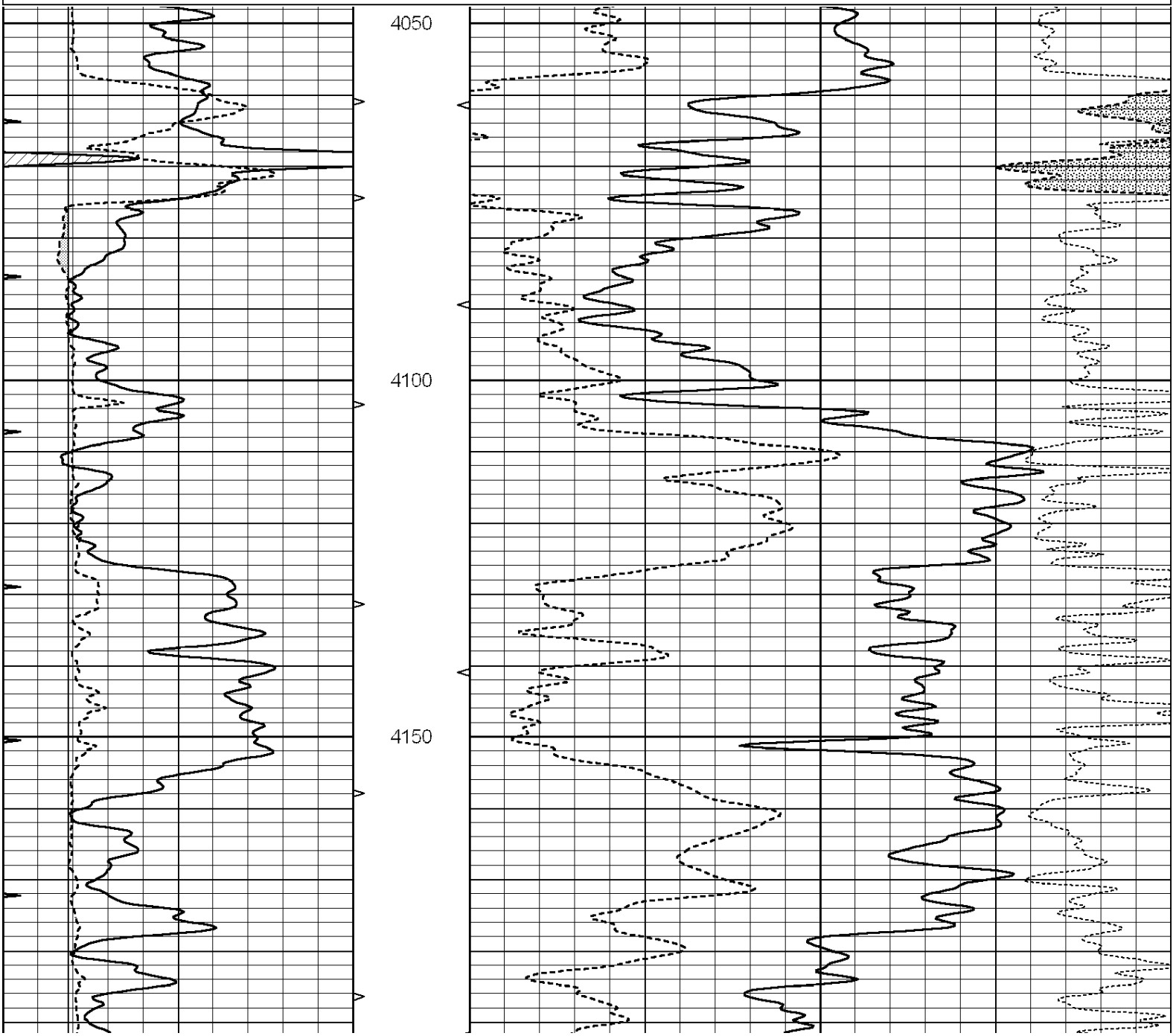
-0.25 CORRECTION (g/cc) 0.25

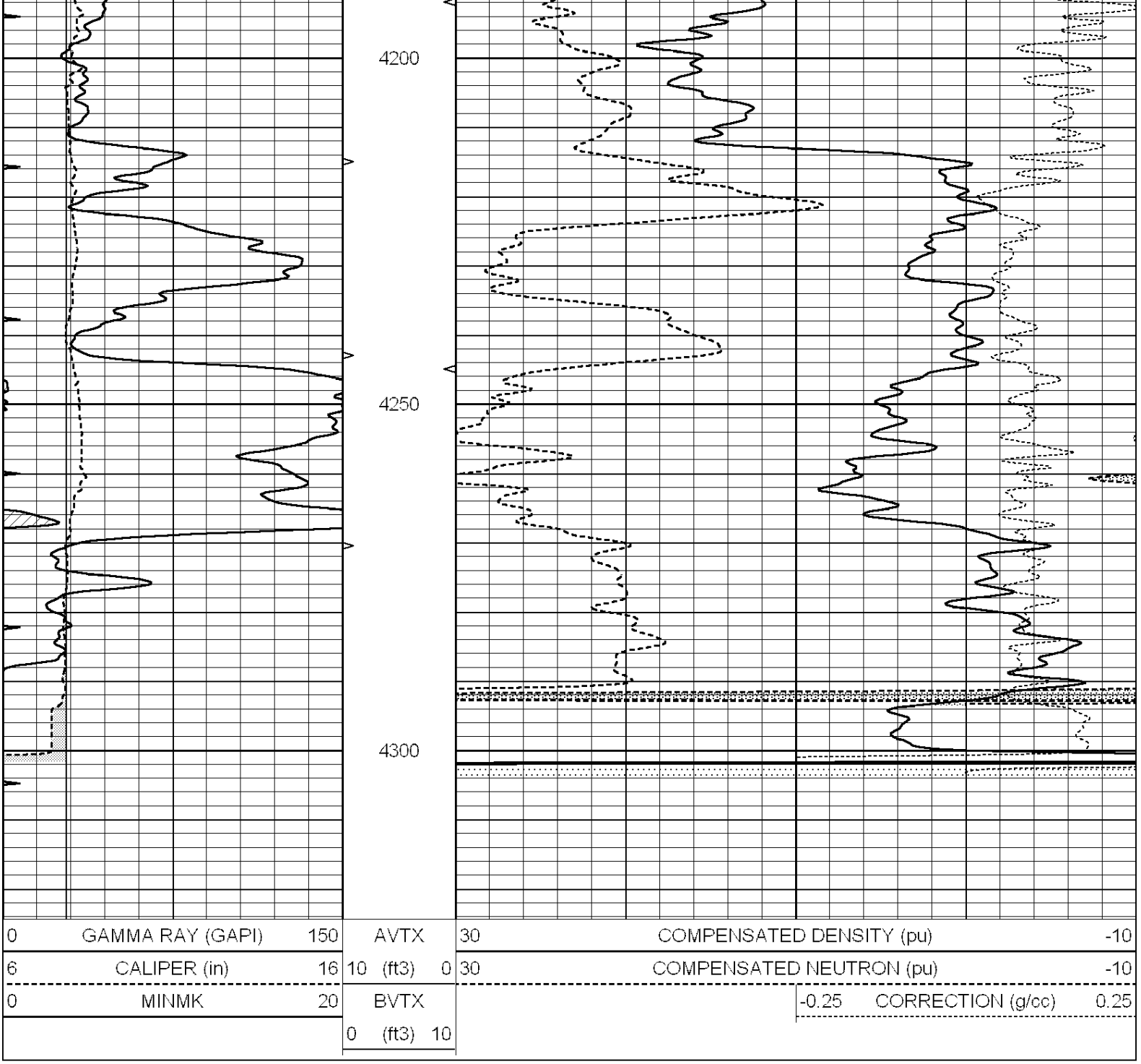
SUPERIOR
Hays,
Kansas

2.65 SANDSTONE MATRIX

Database File:	008094ddn.db
Dataset Pathname:	pass2.2
Presentation Format:	_den_neu
Dataset Creation:	Fri Dec 02 12:39:27 2011 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

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





Calibration Report

Database File: 008094ddn.db
Dataset Pathname: pass3.1
Dataset Creation: Fri Dec 02 13:07:21 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Wed Jul 30 06:14:24 2008
Downhole Cal Performed:	Mon Jul 28 12:02:56 2008
After Survey Verification Performed:	Mon Jul 28 12:02:56 2008

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	8.759
Medium	0.039	0.728	V	0.000	464.000	mmho/m	673.322	-26.058

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		

Compensated Density Calibration Report

Serial-Model: GEAR4-GEARHART
Source / Verifier: 143 / 143
Master Calibration Performed: Sat Jul 16 17:35:04 2011

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1015.91	497.51	cps
Aluminum	2.570	g/cc	227.67	350.20	cps

Spine Angle = 76.79 Density/Spine Ratio = 0.560

	Size		Reading	
Small Ring	8.00	in	2.24	V
Large Ring	14.00	in	4.38	V

Compensated Neutron Calibration Report

Serial Number: 6I
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: #8
Tool Model: OPEN
Performed: Mon Jun 13 16:56:43 2011

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading:	175.0	cps
Sensitivity:	0.8371	GAPI/cps

SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

SONIC LOG

Company CAERUS KANSAS, LLC
Well GETTY #33-34
Field
County STAFFORD State KANSAS
Location: API # : 15-185-23718-0000
346' FNL & 1808' FEL
NW-SE-SW-SE
SEC 33 TWP 24S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1970
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
DIL/MEL

Elevation
K.B. 1979
D.F. 1977
G.L. 1970

Company	CAERUS KANSAS, LLC.		
Well	GETTY #33-34		
Field			
County	STAFFORD		
State	KANSAS		
Date	12/2/11		
Run Number	TWO		
Depth Driller	4320		
Depth Logger	4318		
Bottom Logged Interval	4308		
Top Log Interval	250		
Casing Driller	8 5/8" @ 262		
Casing Logger	261		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 10000 PPM	
Density / Viscosity	9.3/58		
pH / Fluid Loss	9.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.40 @ 67F		
Rmf @ Meas. Temp	.30 @ 67F		
Rmc @ Meas. Temp	.48 @ 67F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.22 @ 118F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	118F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JEFF LAWLER		

<<< Fold Here >>>

Comments

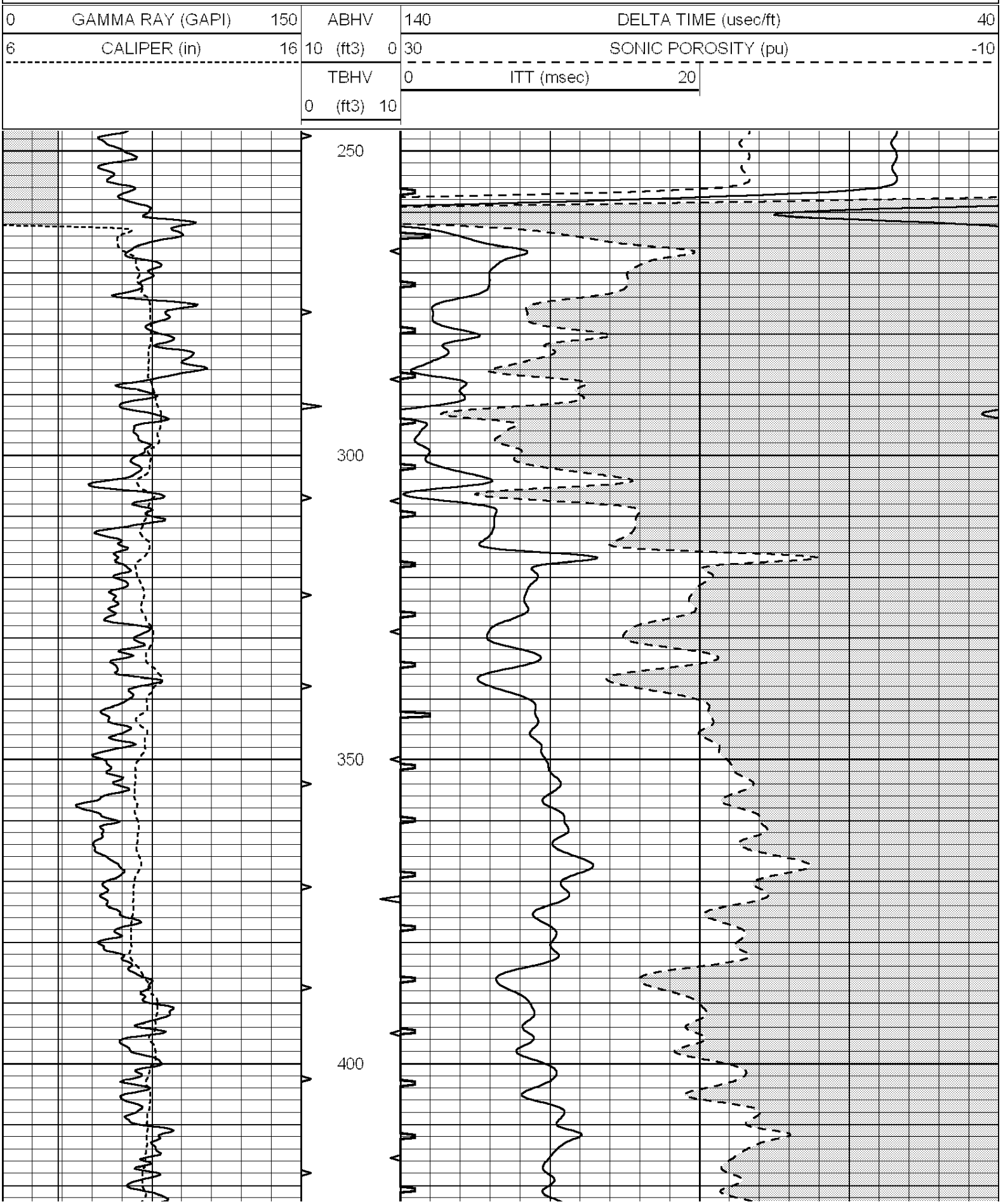
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
MACKSVILLE, KS - EAST 5 MILES TO RD 70 - 3 S. - 3/4 E. - N. INTO

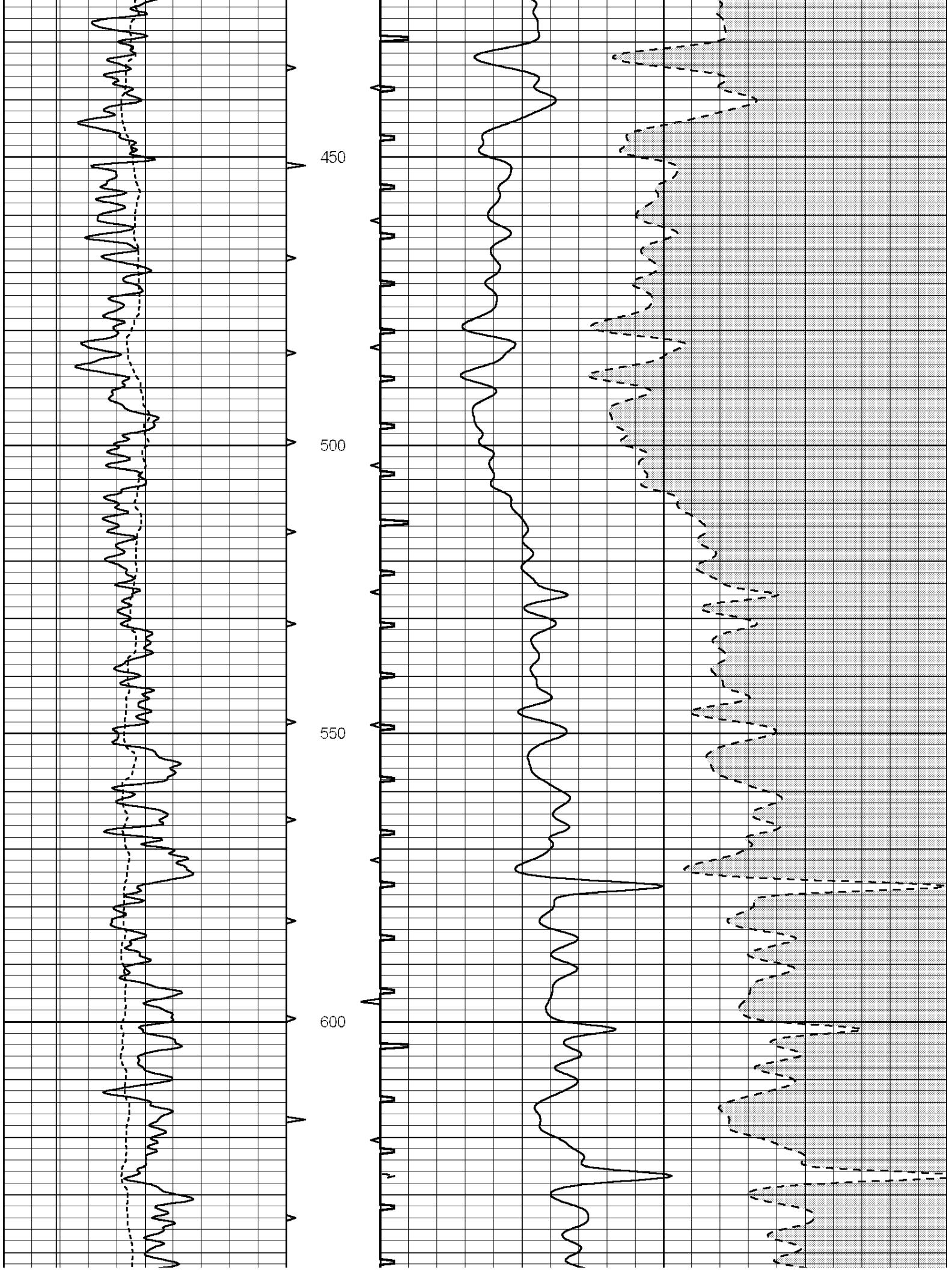
SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 008094ddn.db
Dataset Pathname: pass7.2
Presentation Format: _slt
Dataset Creation: Fri Dec 02 16:43:04 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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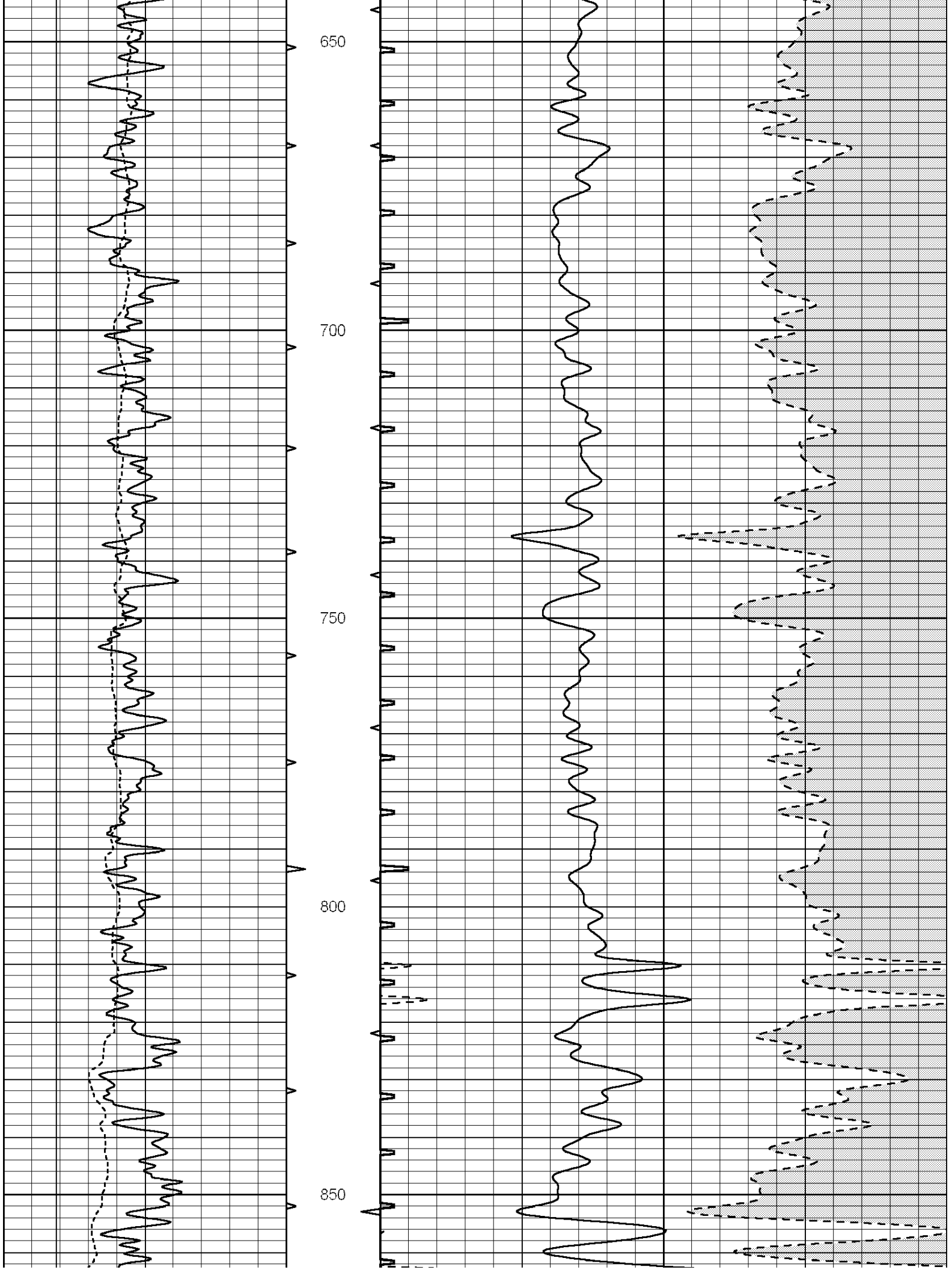
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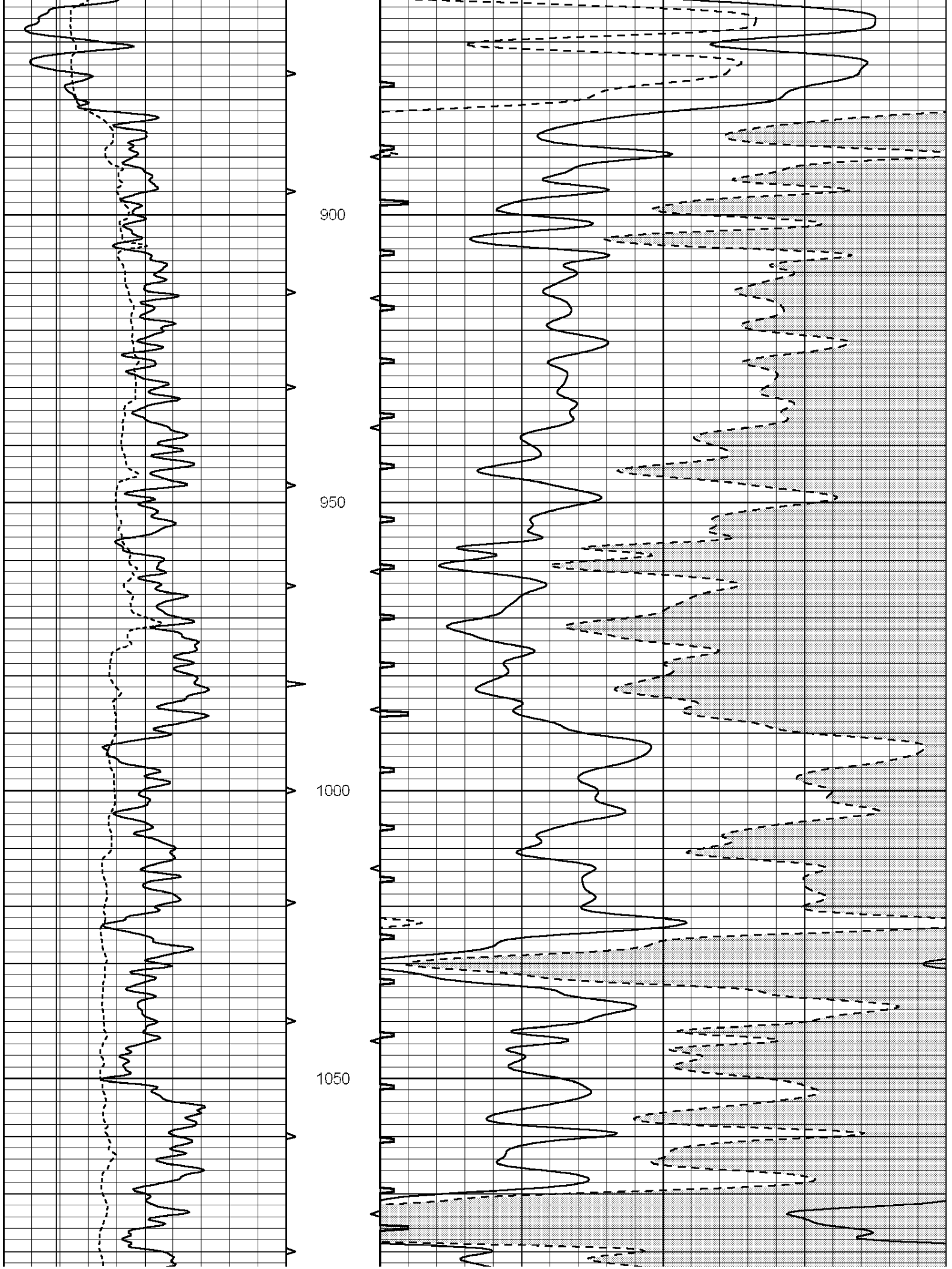
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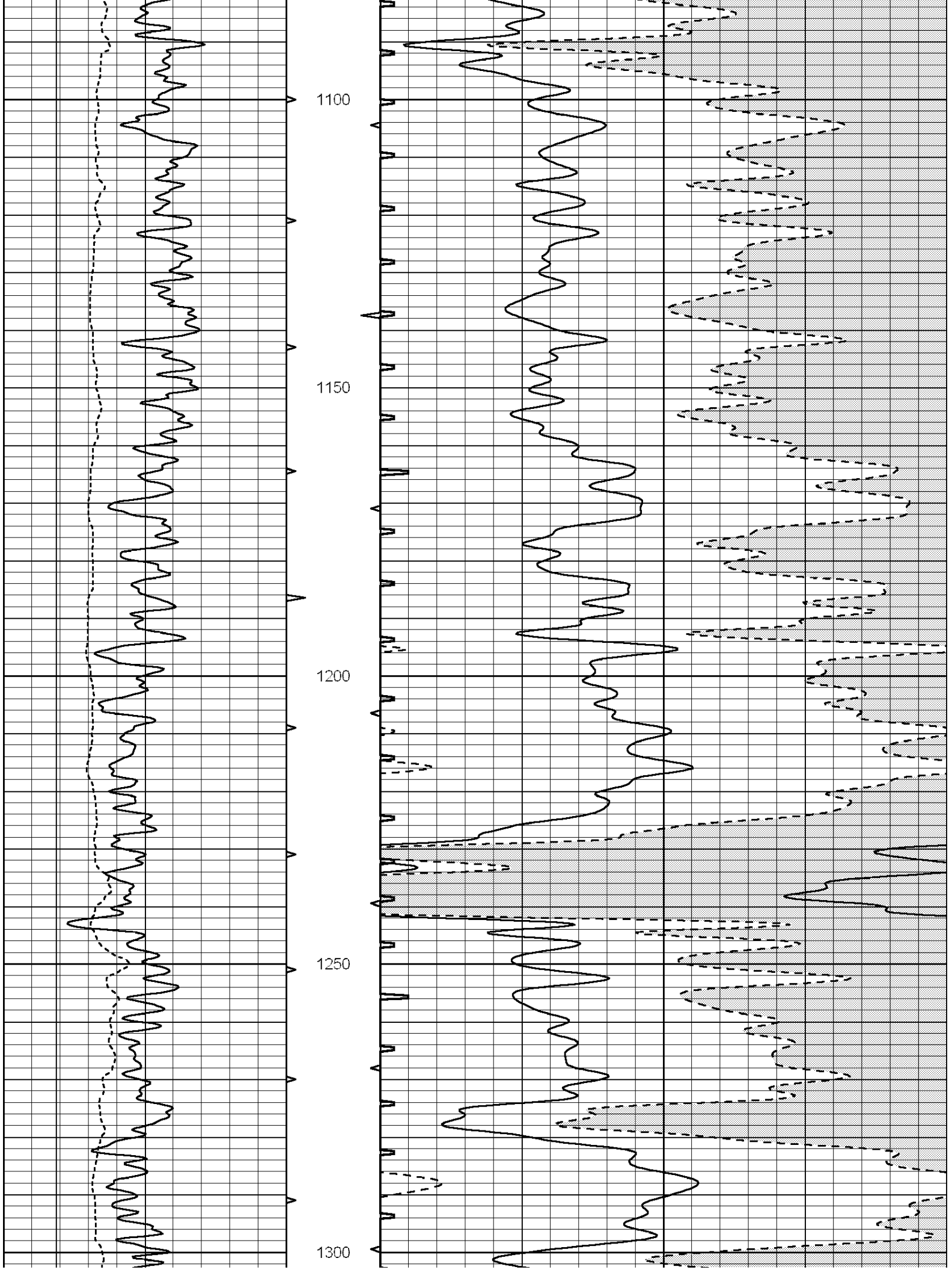
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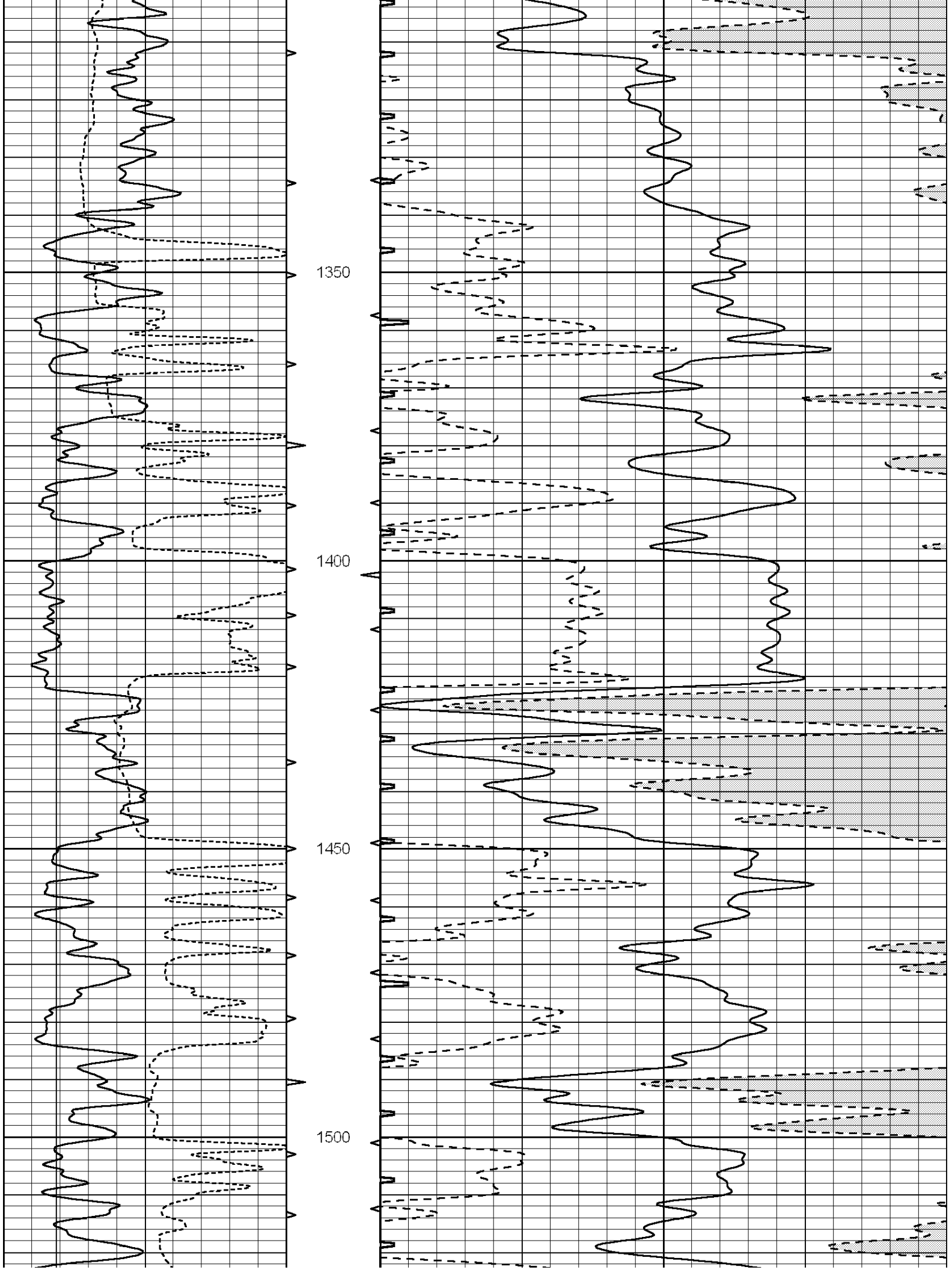
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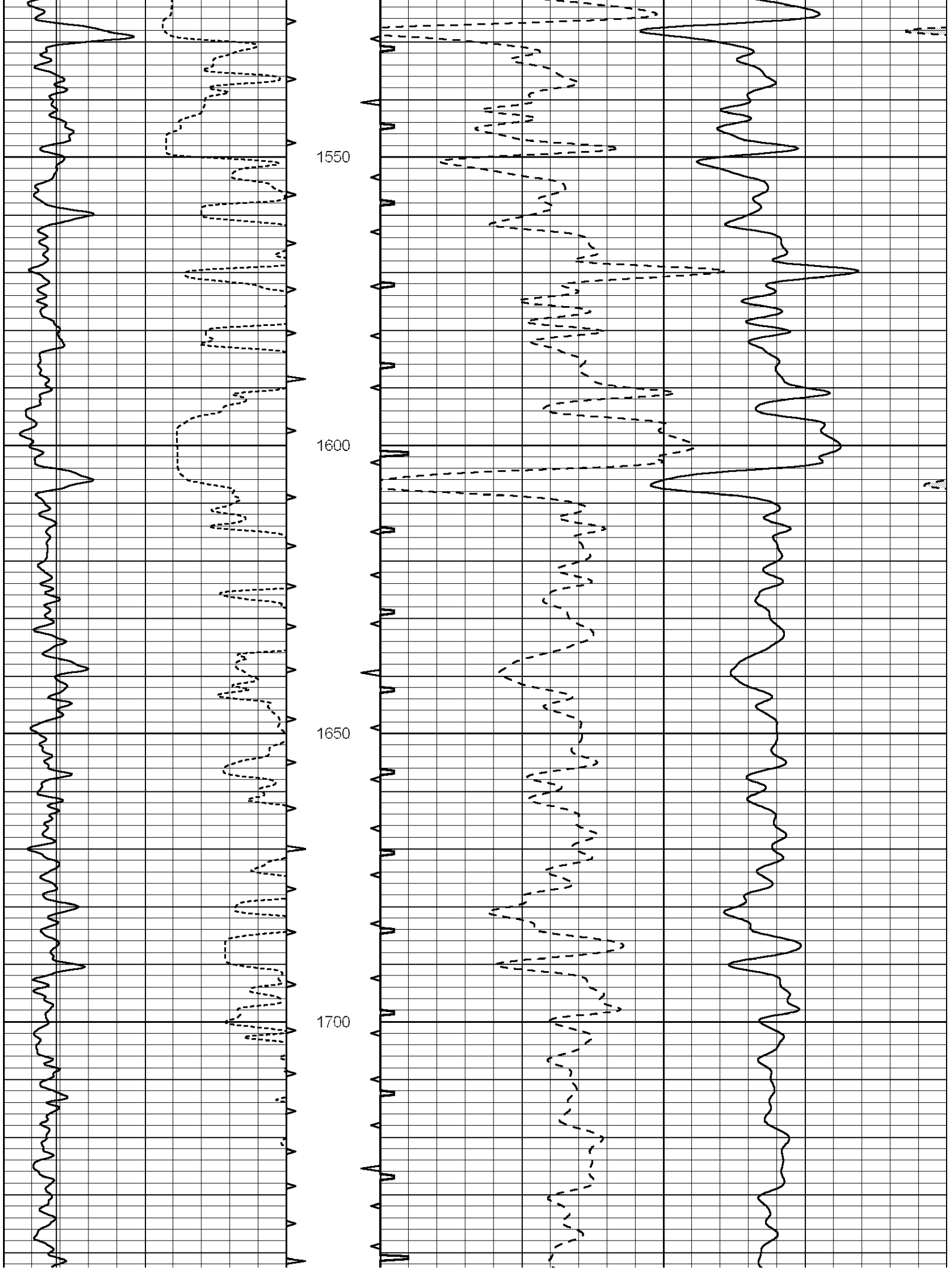
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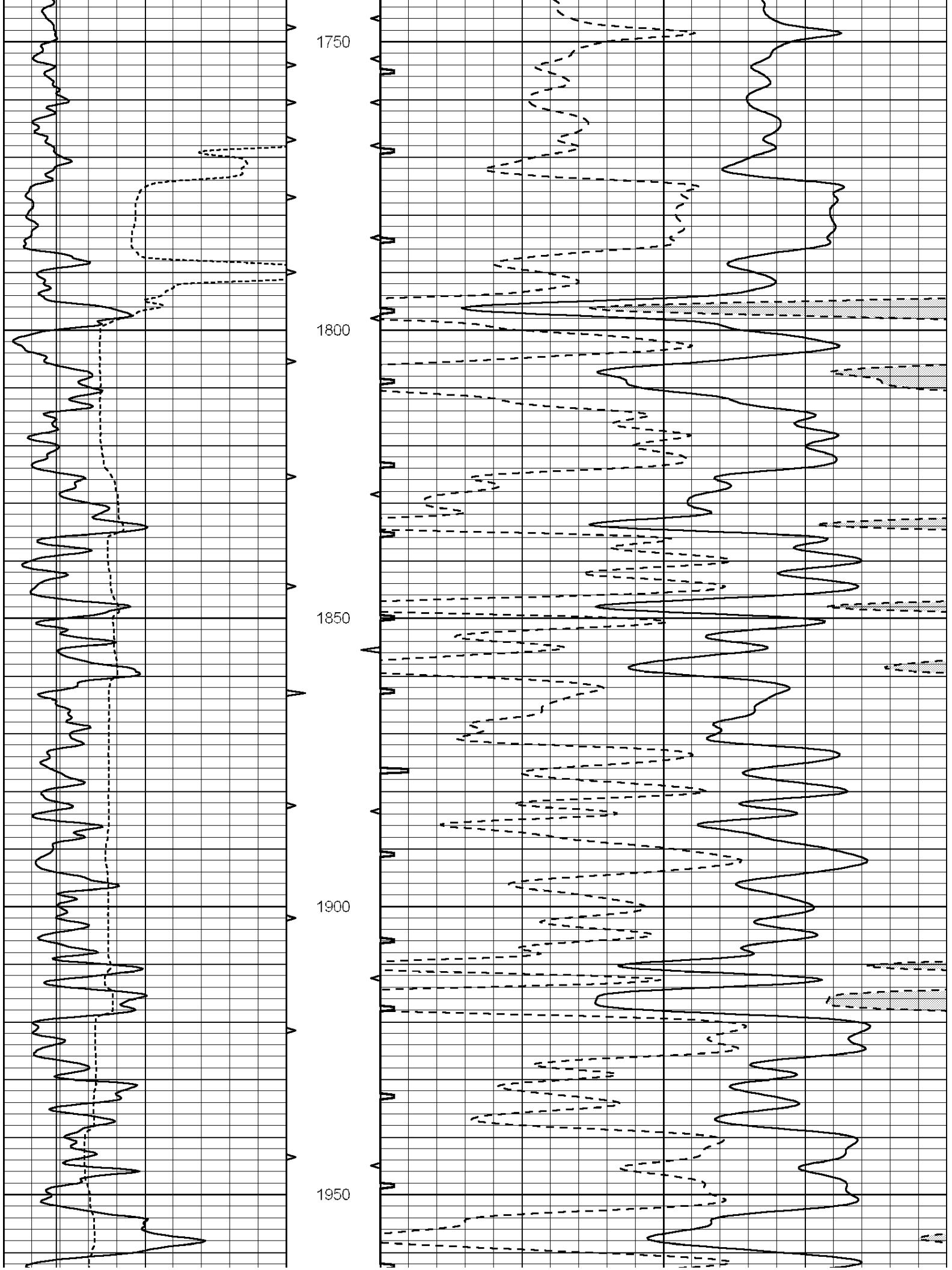
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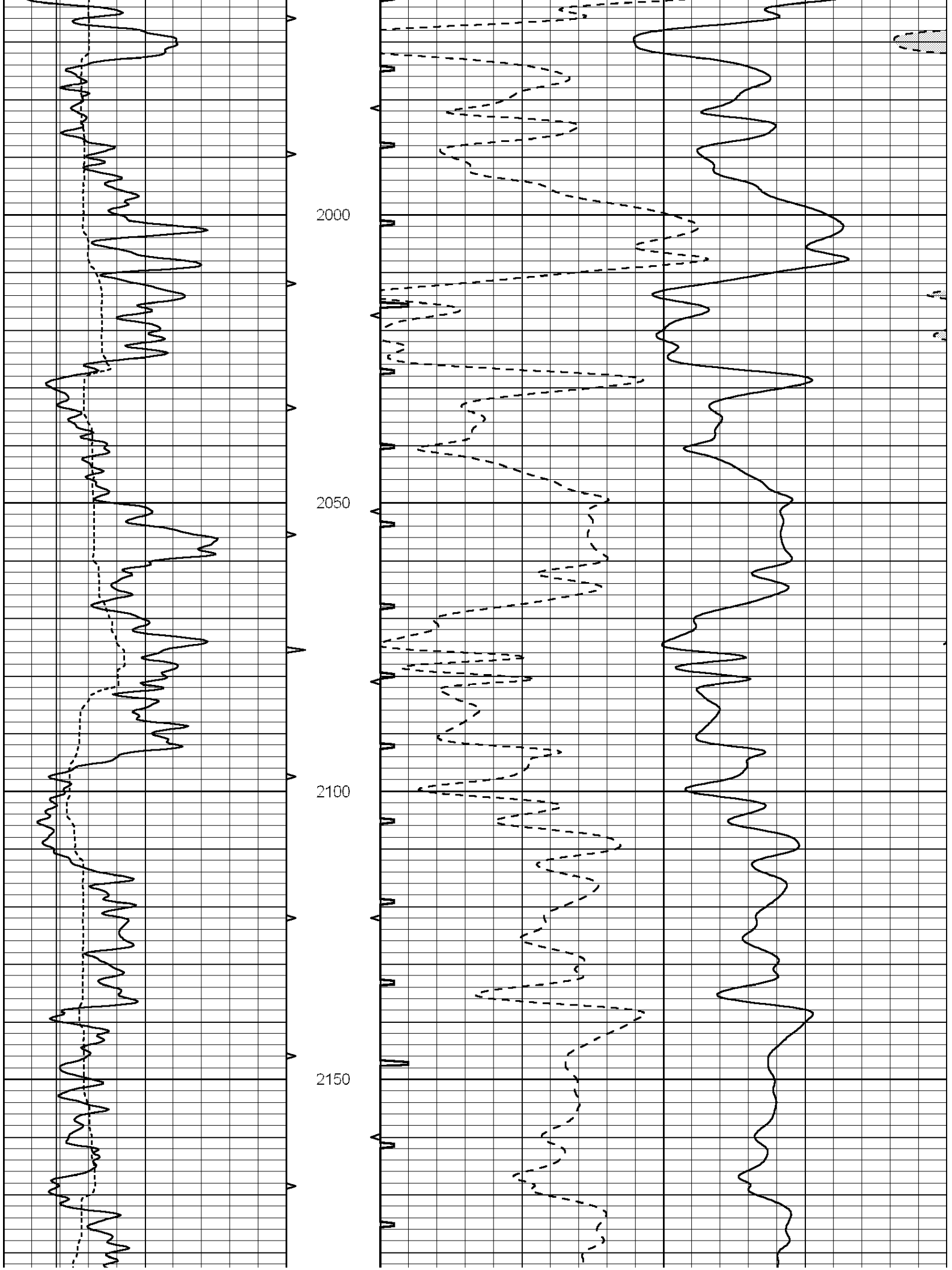
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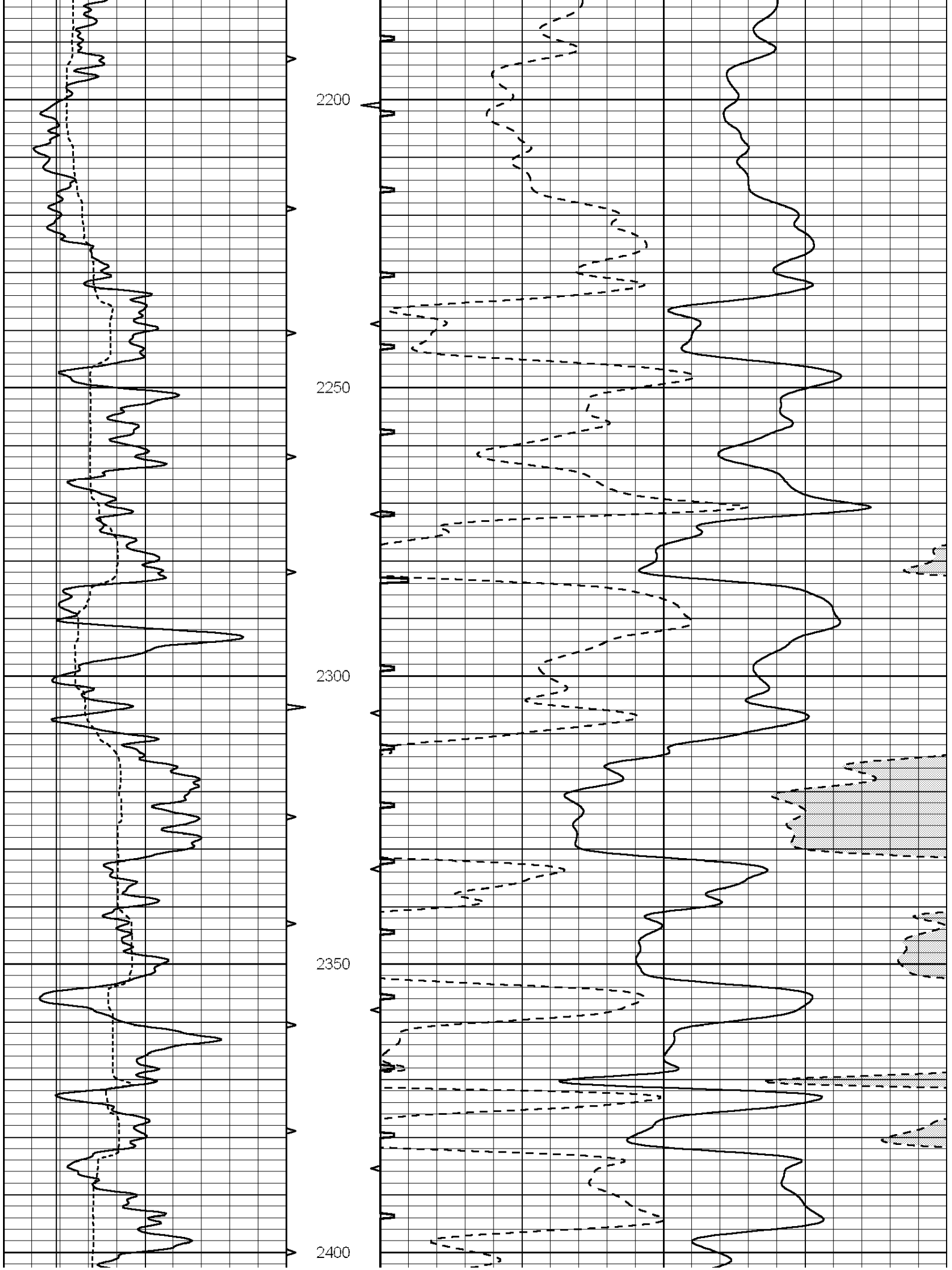
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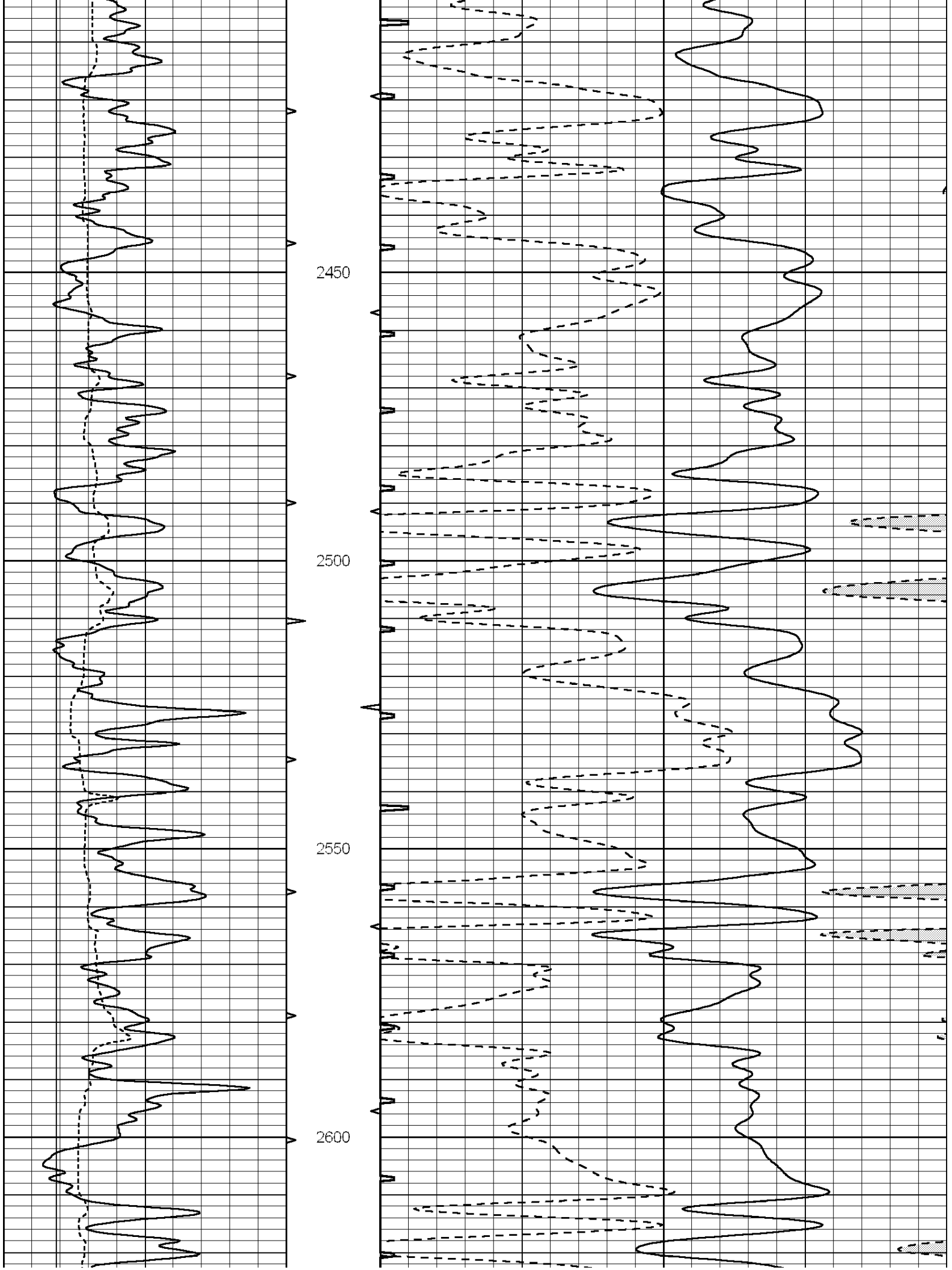
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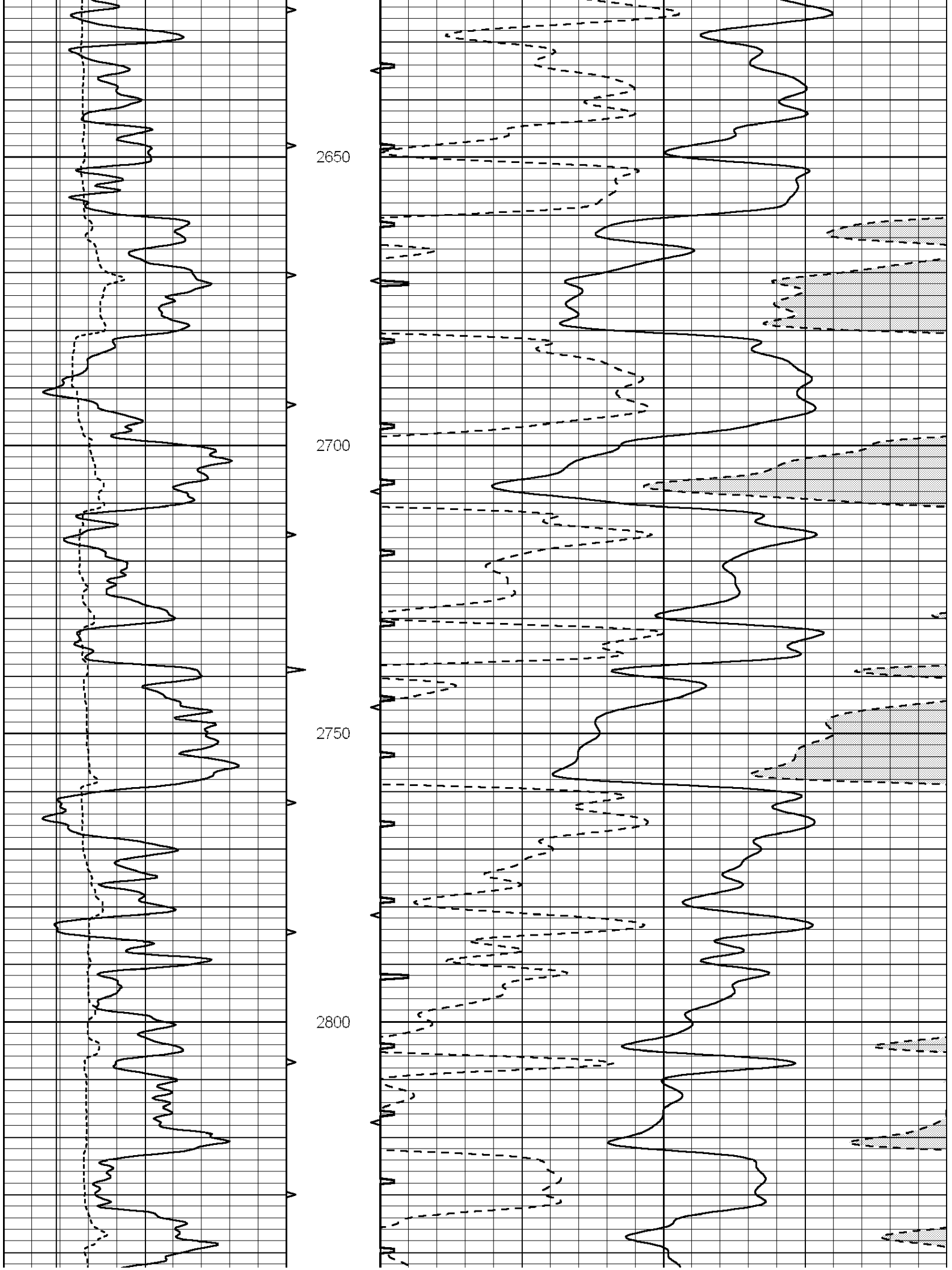
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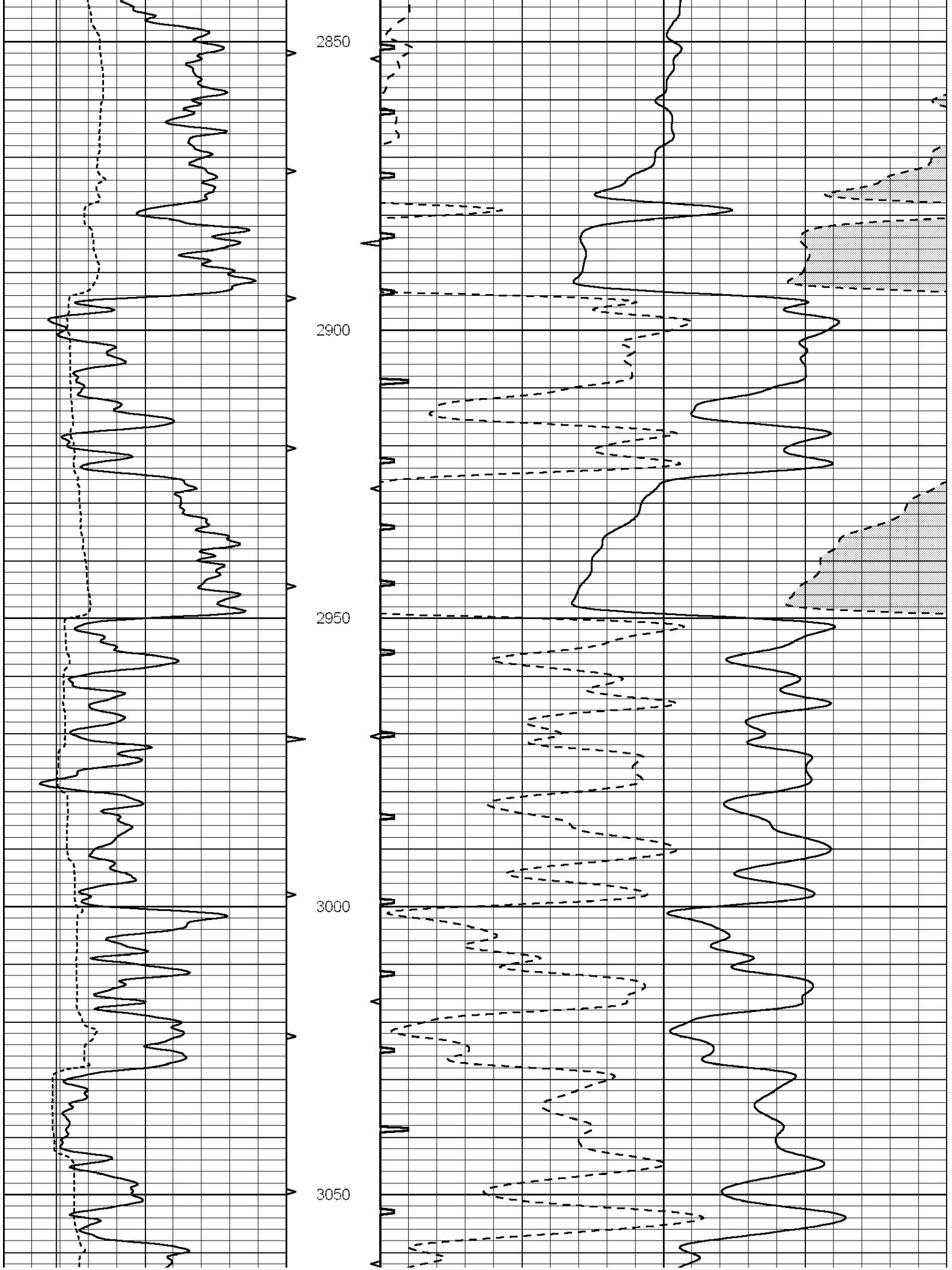
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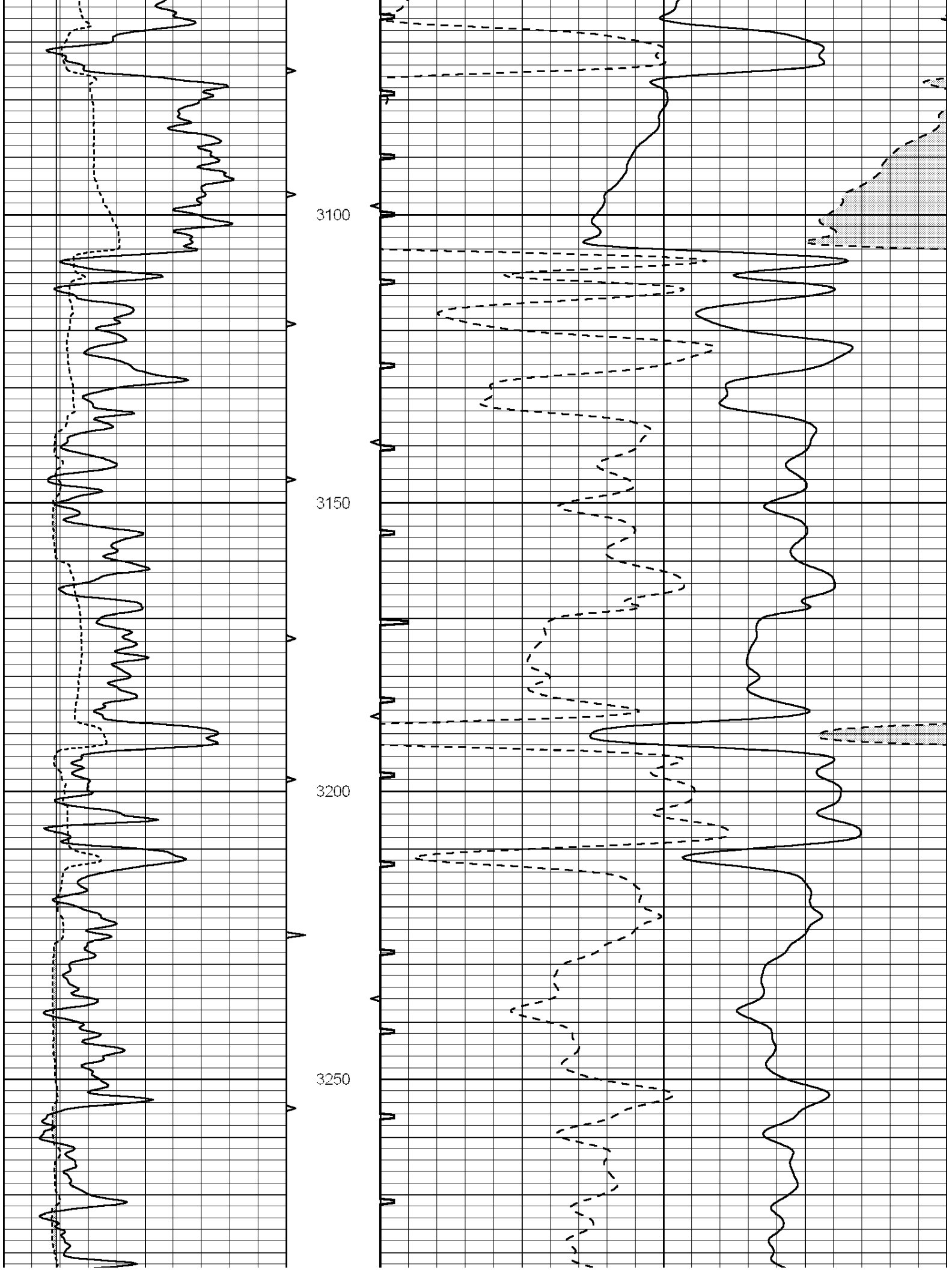
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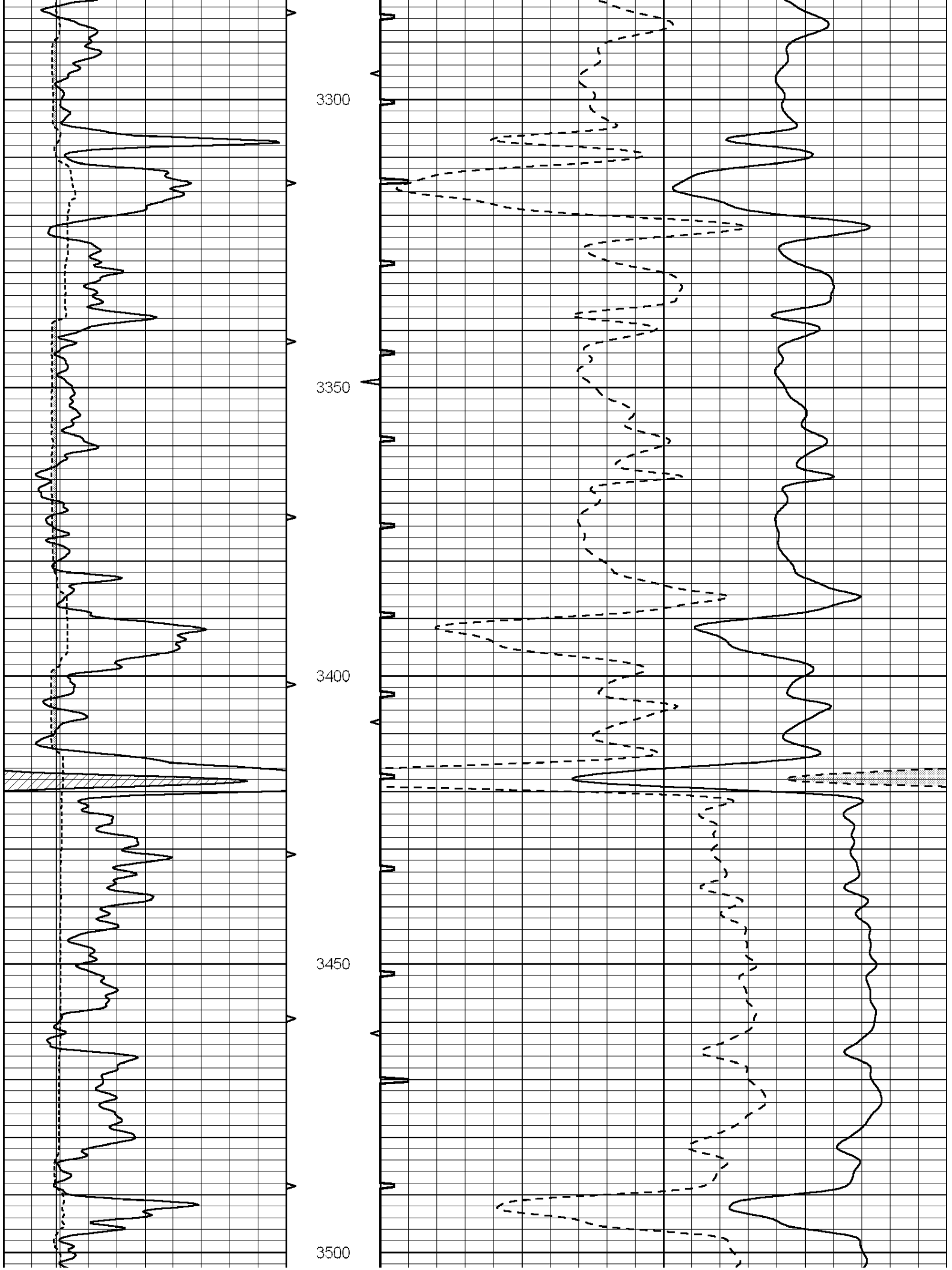
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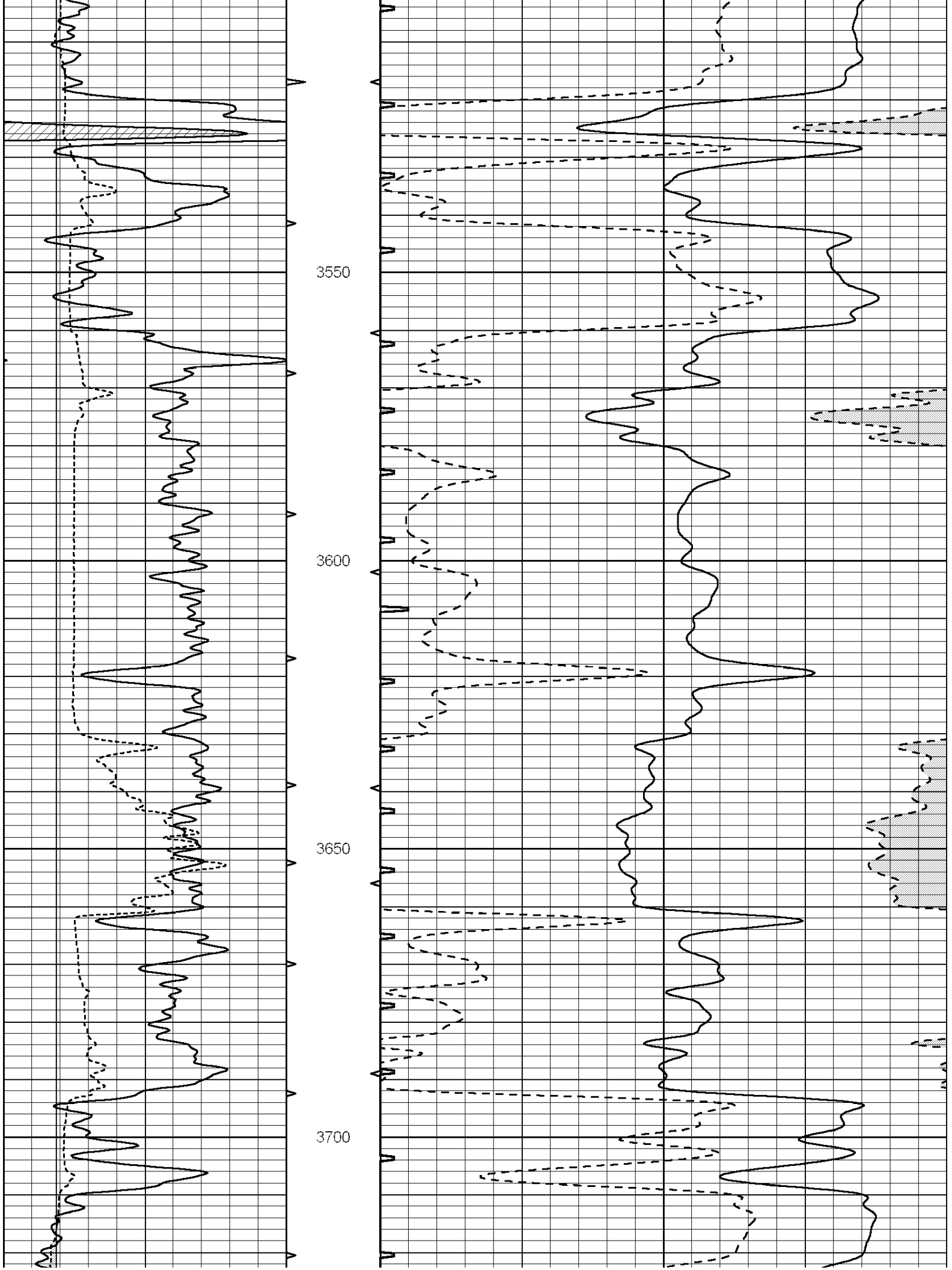
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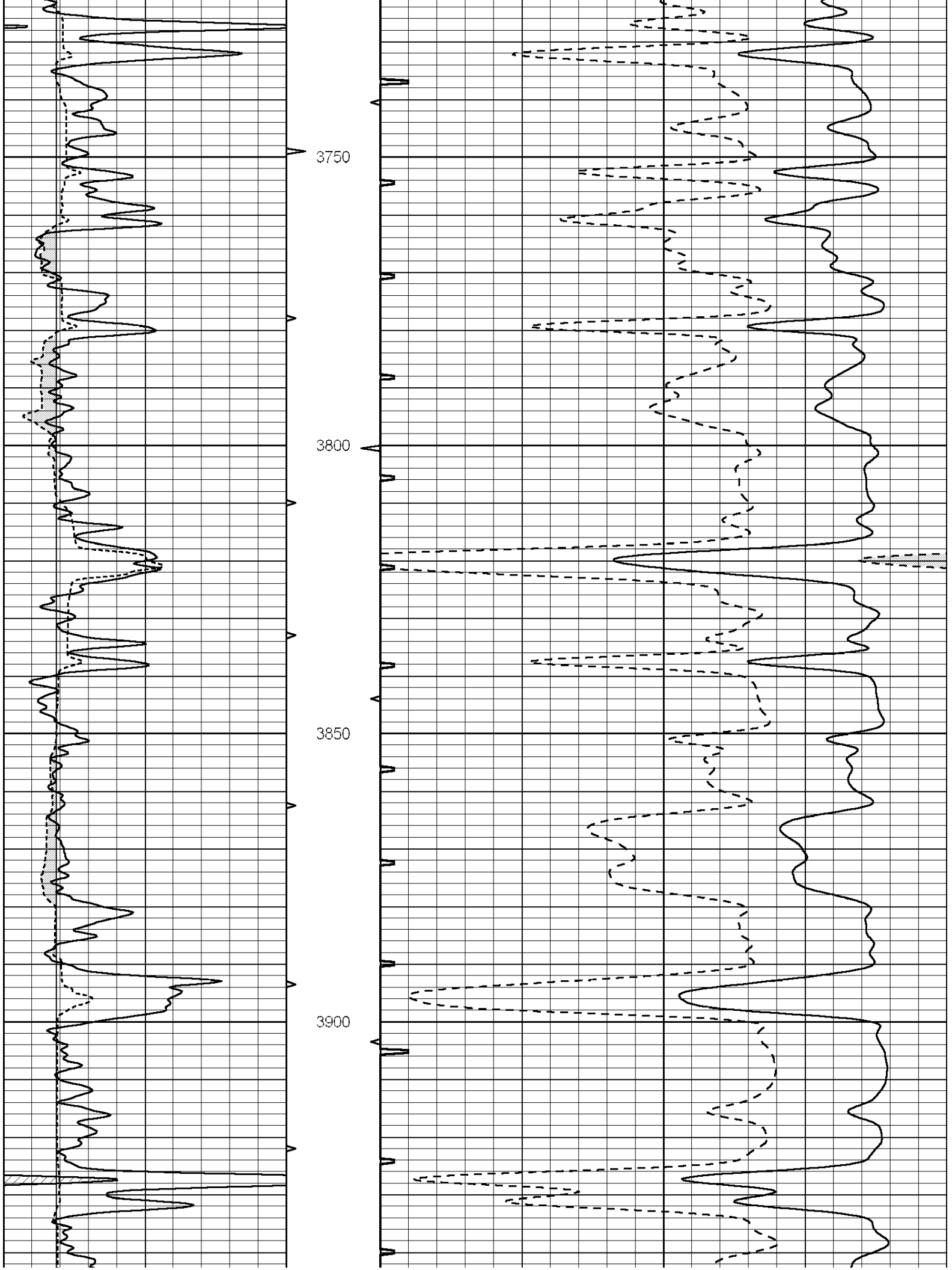
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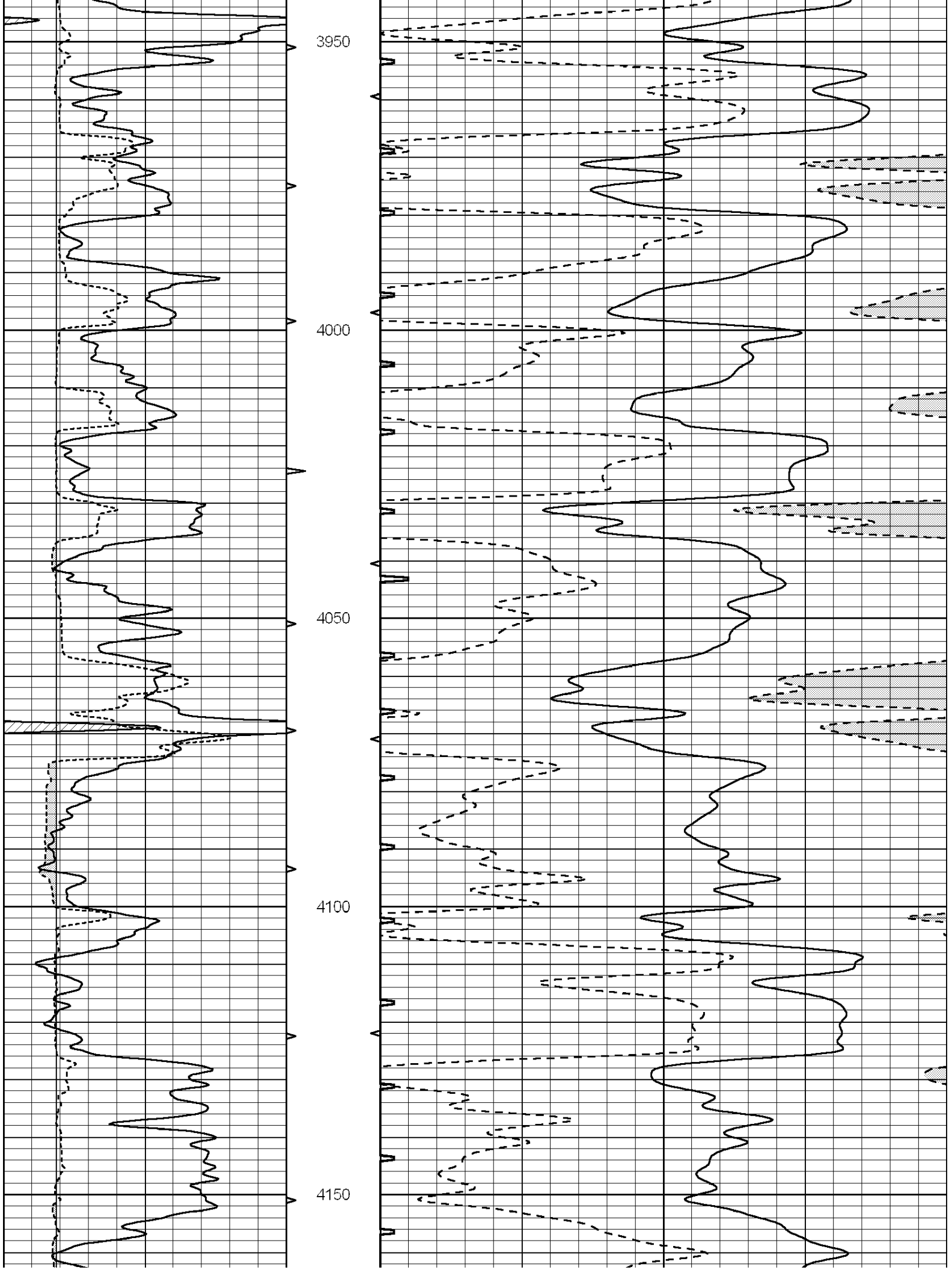
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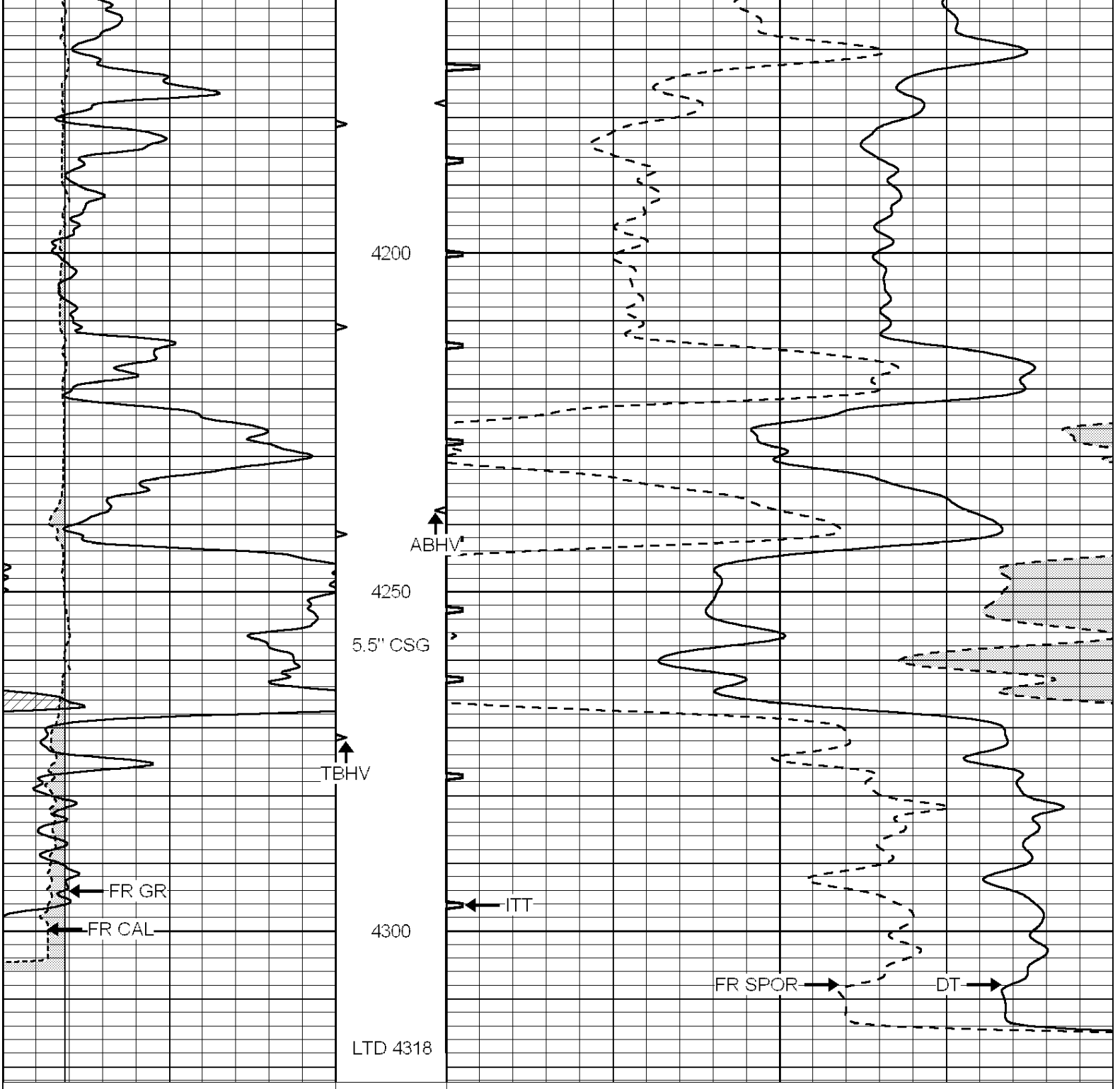


SUPERIOR WELL SERVICES

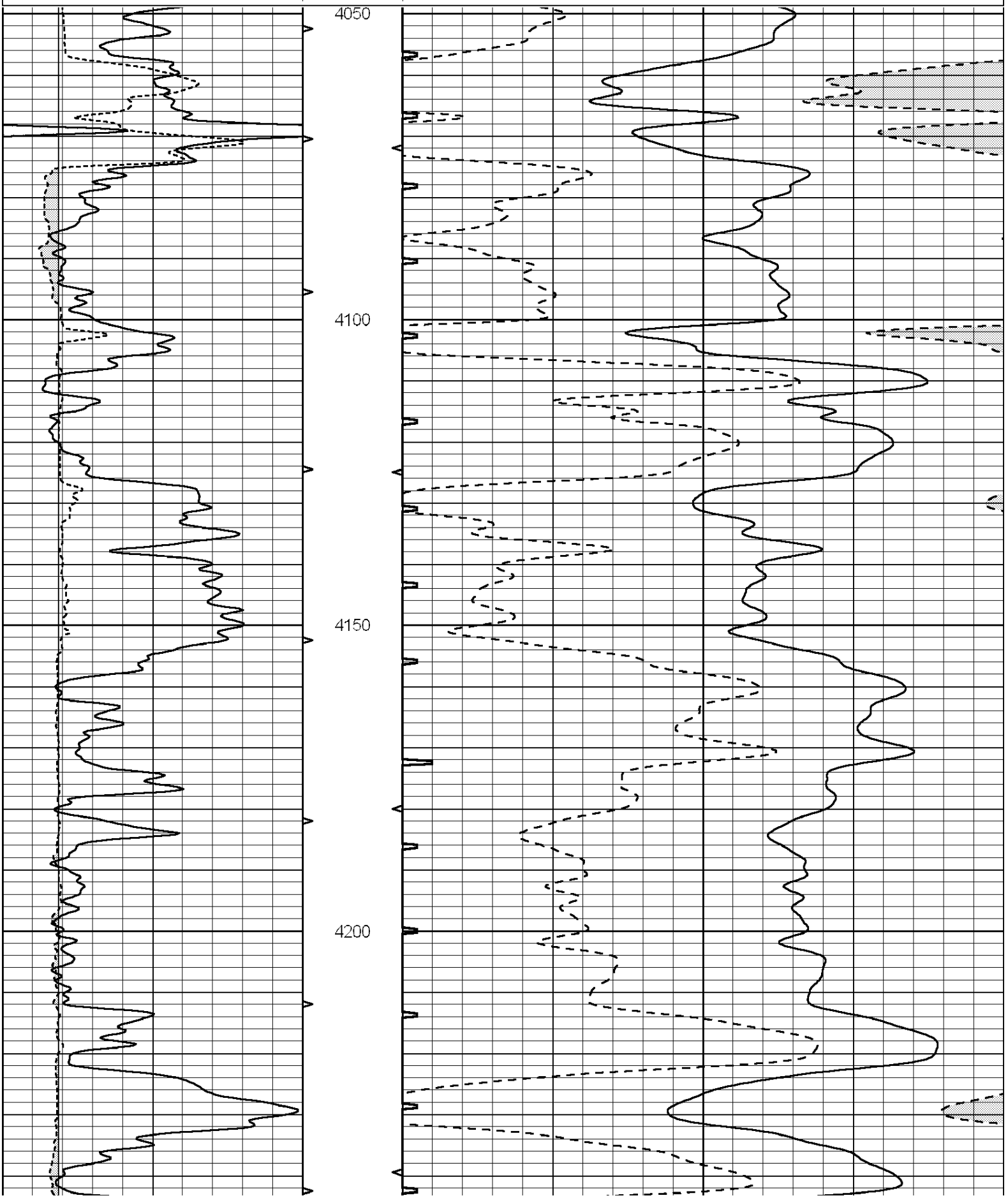
SUPERIOR
Hays,
Kansas

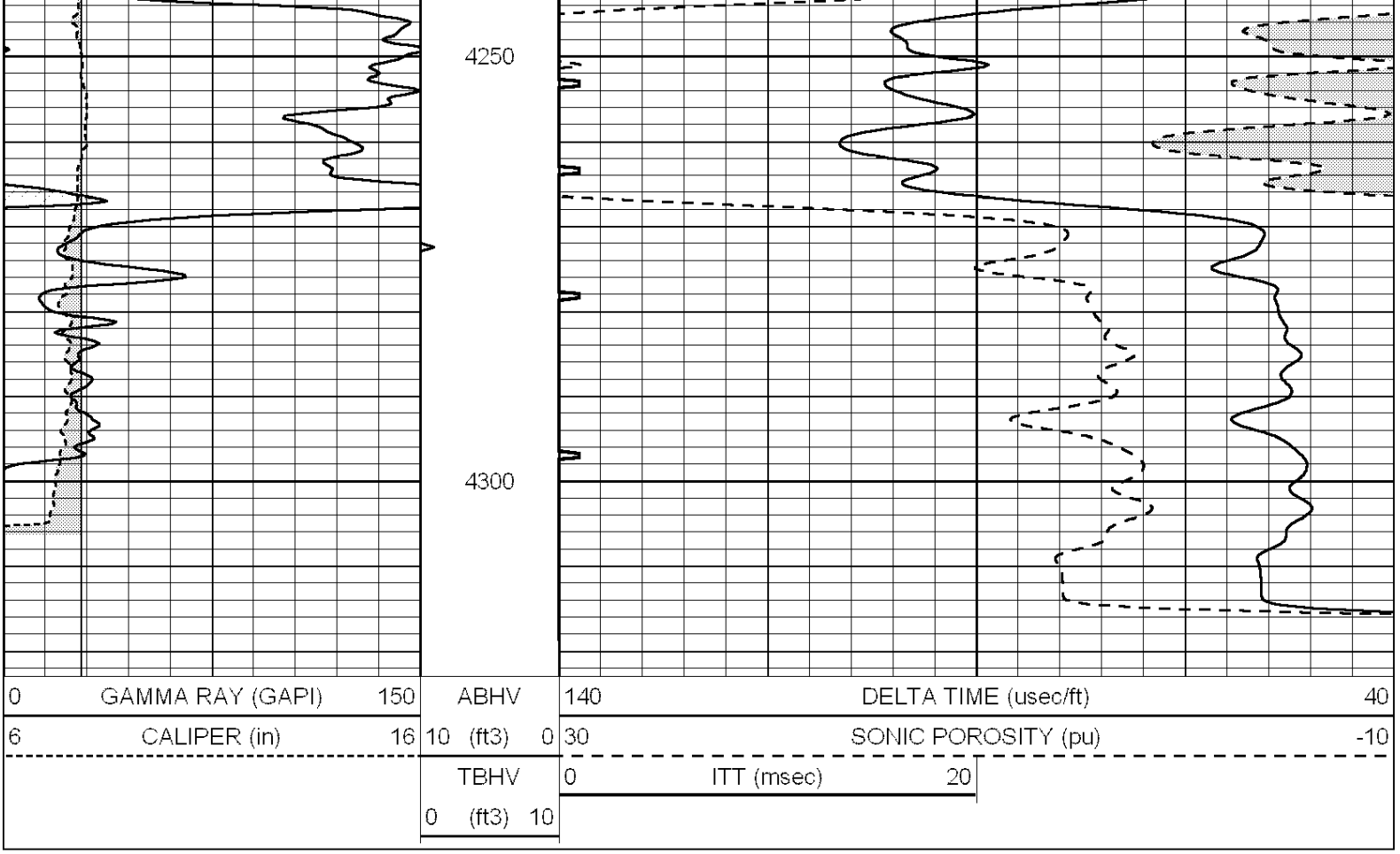
REPEAT SECTION

Database File:	008094ddn.db
Dataset Pathname:	pass6.1
Presentation Format:	_slt
Dataset Creation:	Fri Dec 02 15:27:38 2011 by Calc Open-Cased 090629

Charted by: Depth in Feet scaled 1:240

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




4250
4300
0 GAMMA RAY (GAPI) 150
6 CALIPER (in) 16
ABHV
10 (ft3) 0
TBHV
0 (ft3) 10
140 DELTA TIME (usec/ft) 40
30 SONIC POROSITY (pu) -10
0 ITT (msec) 20

Notice: Fill out COMPLETELY and return to Conservation Division at the address below within 60 days from plugging date.

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

WELL PLUGGING RECORD
K.A.R. 82-3-117

Form CP-4
March 2009
Type or Print on this Form
Form must be Signed
All blanks must be Filled

OPERATOR: License #: 34110
Name: Caerus Kansas LLC
Address 1: P O Box 1378
Address 2:
City: Hays State: KS Zip: 67601 + ____
Contact Person: Brian Karlin
Phone: (785) 623-3290
Type of Well: *(Check one)* ☐ Oil Well ☐ Gas Well ☐ OG ☑ D&A ☐ Cathodic
☐ Water Supply Well ☐ Other: ☐ SWD Permit #:
☐ ENHR Permit #: ☐ Gas Storage Permit #:
Is ACO-1 filed? ☐ Yes ☑ No If not, is well log attached? ☐ Yes ☑ No
Producing Formation(s): List All *(If needed attach another sheet)*
Depth to Top: Bottom: T.D.
Depth to Top: Bottom: T.D.
Depth to Top: Bottom: T.D.

API No. 15 - 185-23718
Spot Description:
NW SE SW SE Sec. 33 Twp. 24 S. R. 14 ☐ East ☑ West
346 Feet from ☐ North / ☑ South Line of Section
1,808 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
County: Stafford
Lease Name: Getty Well #: 33-34
Date Well Completed: 12/3/2011
The plugging proposal was approved on: 12/2/2011 *(Date)*
by: Richard Lacy - KCC Dodge City *(KCC District Agent's Name)*
Plugging Commenced: 12/3/2011
Plugging Completed: 12/3/2011

Show depth and thickness of all water, oil and gas formations.

Oil, Gas or Water Records		*Casing Record (Surface, Conductor & Production)*			
Formation	Content	Casing	Size	Setting Depth	Pulled Out
		Surface	8 5/8"	262'	None

Describe in detail the manner in which the well is plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same depth placed from (bottom), to (top) for each plug set.

1st plug - 4250' - 50 sxs, 2nd plug - 880' - 50 sxs, 3rd plug - 290' - 50 sxs, 4th plug - 60' - 20 sxs, 30 sxs in the Rat Hole, and 20 sxs in the Mouse Hole. Cement Material was a total of 220 sxs of 60/40 POZ Mix 4% Gel. Cement was provided by Allied Cementing Company, LLC Ticket # 42308

Plugging Contractor License #: 34233 Name: Maverick Drilling LLC
Address 1: 100 S. Main Suite 440 Address 2:
City: Wichita State: KS Zip: 67202 + ____
Phone: (316) 262-6700
Name of Party Responsible for Plugging Fees: Caerus Kansas LLC
State of Colorado County, Denver , ss.
Amy Lay *(Print Name)* ☑ Employee of Operator or ☐ Operator on above-described well,
being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained, and the log of the above-described well is as filed, and the same are true and correct, so help me God.
Signature: A. Lay

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

ALLIED CEMENTING CO., LLC. 037312

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Great Bend

DATE 11-25-11	SEC. 33	TWP. 24	RANGE 14 W	CALLED OUT	ON LOCATION	JOB START 8:15 PM	JOB FINISH 8:45 PM
LEASE Getty	WELL# 33-34	LOCATION Bx-es Blacktop 3 South				COUNTY Stafford	STATE KS
OLD OR (NEW) (Circle one)		1 East North Into					

CONTRACTOR Maverick 108 OWNER Cox Rub Kansas LLC

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 266

CASING SIZE 8 5/8 24# DEPTH 266

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 16 BBLS Fresh water

EQUIPMENT

PUMP TRUCK CEMENTER Shane
366 HELPER Dustin

BULK TRUCK
#482/188 DRIVER John

BULK TRUCK
DRIVER

CEMENT

AMOUNT ORDERED 200 class A + 3% cc + 2% Gel

COMMON	200	@ 16.25	3250.00
POZMIX		@	
GEL	4	@ 21.25	85.00
CHLORIDE	7	@ 58.20	407.40
ASC		@	
HANDLING	211	@ 2.25	474.75
MILEAGE	211 X 20 X .11		464.20
		TOTAL	4681.35

REMARKS:

Pipe on Bottom Break Circulation with Rig mud
Mix 200 SX class A + 3% cc + 2% Gel
Displace 16 BBLS Fresh water
Shut in
Cement did circulate
Washup Rig Down

SERVICE

DEPTH OF JOB	266		
PUMP TRUCK CHARGE			1125.00
EXTRA FOOTAGE		@	
MILEAGE	Hum 20	@ 7.00	140.00
MANIFOLD		@	
	Hum 20	@ 4.00	80.00
		@	
		TOTAL	1345.00

CHARGE TO: Cox Rub Kansas LLC

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	@	
	TOTAL	

To Allied Cementing Co., 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.

SALES TAX (If Any) 35

TOTAL CHARGES 6026.35

DISCOUNT 50% 20% 1410.53 IF PAID IN 30 DAYS

4615.82

PRINTED NAME Jeremy Stuckey

SIGNATURE

ALLIED CEMENTING CO., LLC. 042308

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Great Bend Ks

DATE 12-3-11	SEC. 33	TWP. 24	RANGE 14 W	CALLED OUT	ON LOCATION	JOB START 500pm	JOB FINISH 600pm
LEASE Geiger	WELL # 33-34		LOCATION			COUNTY Stafford	STATE Ks
OLD OR NEW (Circle one)							

CONTRACTOR

TYPE OF JOB

HOLE SIZE 7 7/8 T.D. 4320

CASING SIZE 8 5/8 DEPTH 266

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 4250

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. all

PERFS.

DISPLACEMENT Fresh water / mud

EQUIPMENT

PUMP TRUCK CEMENTER

366 HELPER

BULK TRUCK

341 DRIVER

BULK TRUCK

DRIVER

REMARKS:

1st plug at 4250' mix 40sx

2nd plug at 860' mix 40sx

3rd plug at 290' mix 40sx

4th plug at 60' mix 20sx

RH

CHARGE TO: Casino Kansas LLC

STREET

CITY STATE ZIP

OWNER

CEMENT

AMOUNT ORDERED 220 sx Common 4% gel

		@	
COMMON	132	@	
POZMIX	88	@	
GEL	8	@	
CHLORIDE		@	
ASC		@	
HANDLING		@	
MILEAGE			

TOTAL

SERVICE

DEPTH OF JOB 4250

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

To Allied Cementing Co., 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.

PRINTED NAME Jeremy Stuckey

SIGNATURE

Thank you!