

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Charter Energy, Inc.
Well Name	TRUMP 1
Doc ID	1435004

All Electric Logs Run

CDN
DIL
Micro
Sonic

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

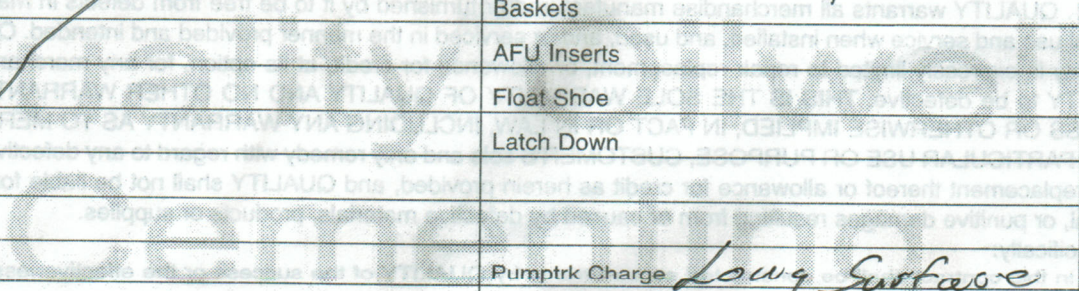
Home Office P.O. Box 32 Russell, KS 67665

No. 1157

Cell 785-324-1041

Date	12-8-18	Sec.	1	Twp.	20	Range	14	County	Barton	State	Ks	On Location		Finish	7:15 PM
Lease	Trump			Well No.	1			Location	Bond Rd + K-96 Hwy - 25, 1/8 W, 1 3/4 S to 156 Hwy						
Contractor	Rougl #2			Owner	Cross 156 Hwy - S/Into, E to well										
Type Job	Surface			To Quality Oilwell Cementing, 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	12 1/4"		T.D.	810'		Charge To	Charter Energy								
Csg.	8 5/8"		Depth	810'		Street									
Tbg. Size			Depth			City	State								
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	42'		Shoe Joint	42'		Cement Amount Ordered	425 60/40 4% CC 2% Gel 1/2 Flo-seal								
Meas Line			Displace	50 BLS											
EQUIPMENT															
Pumptrk	16	No.	Cementer	Tony		Common	255								
			Helper			Poz. Mix	170								
Bulktrk	21	No.	Driver	Jack		Gel	9								
Bulktrk	p.u.	No.	Driver	Rick		Calcium	30 19								
JOB SERVICES & REMARKS															
Remarks:	Cement did Circulate														
Rat Hole	Flowseal 225#														
Mouse Hole	Kol-Seal														
Centralizers	Mud CLR 48														
Baskets	CFL-117 or CD110 CAF 38														
D/V or Port Collar	Sand														
	Handling 453														
	Mileage														
FLOAT EQUIPMENT															
	Guide Shoe Rubber plug														
	Centralizer Baffle plate														
	Baskets														
	AFU Inserts														
	Float Shoe														
	Latch Down														
	Pumptrk Charge Lowy Surface														
	Mileage 15 (min)														
	Tax														
	Discount														
	Total Charge														
X Signature	Cai Z. Jamen														

Thanks





Services, Inc.

CHARGE TO: Charter Energy

ADDRESS

CITY, STATE, ZIP CODE

TICKET 27438

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Ness City</u>	<u>#1</u>	<u>Trump</u>	<u>Barton</u>	<u>Ks</u>		<u>12-15-18</u>	
2. <u>Ness City</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
	<u>0,1</u>	<u>Royal Drilling</u>	<u>Rig #2</u>	<u>CS</u>	<u>Location</u>		
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
4.	WELL PROJECT NO.	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					Trk # 111	600	mi				5.00	3000.00
578					Rump Charge - long string	5	EA				1300.00	6500.00
290					D-Kir	2	EA				42.00	84.00
281					Mudflush	500	YAR				1.50	750.00
421					Liquid kel	2	BAR				25.00	50.00
422					Controlizers	8	EA				7.00	56.00
406					Lozen Down Plug & Back	1	EA				250.00	250.00
402					Insert floor shoe/Photo	1	EA				325.00	325.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO

WE UNDERSTOOD AND MET YOUR NEEDS? YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

SWIFT OPERATOR David Edgerston

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

The customer hereby acknowledges receipt of the materials and services listed on this ticket

APPROVAL Thank You!

TOTAL 8408.34

CUSTOMER

Charter Energy #1

WELL NO.

#1

LEASE

Trump

JOB TYPE

Long String

TICKET NO.

27438

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							On location
								5 1/2 x 14# csg
								Rtd - 3600'
								TOTAL Pipe - 3594'
								Centralizers - 1, 3, 5, 7, 9, 11, 13, 15
	1315							Start Running Csg
	1440							Circ on Bottom
	1500	2.5	8			0		Plug Rat hole - 30 sks
		2.5	6			0		Plug Mouse hole 20 sks
		5.5	12			300		Pump mudflush - 500 gal
		5.5	20			300		Pump Kee spacer
	1515	5.5	30			300		Pump cmr - 125 sks @ 5.5 rpm
								Drop plug - Wash P & L
	1530	6.5	0			200		Start Disp
	1540	5	87			800/1500		land plug - lift psi - 800
								land psi - 1500
								Release Psi - Dry
								JOB Complete
								Thanks
								Dennis Zach & Kirby



DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252
Great Bend KS 67530 +0252

ATTN: Jim Musgrove

Trump #1

1-20S-14W Barton,KS

Start Date: 2018.12.12 @ 23:00:00

End Date: 2018.12.13 @ 07:02:45

Job Ticket #: 64771 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.12.17 @ 14:17:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy
 PO Box 252
 Great Bend KS 67530 +0252
 ATTN: Jim Musgrove

1-20S-14W Barton,KS
Trump #1
 Job Ticket: 64771 **DST#: 1**
 Test Start: 2018.12.12 @ 23:00:00

GENERAL INFORMATION:

Formation: **LKC 'A-F'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:17:15
 Time Test Ended: 07:02:45
 Interval: **3210.00 ft (KB) To 3290.00 ft (KB) (TVD)**
 Total Depth: 3290.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 1876.00 ft (KB)
 1868.00 ft (CF)
 KB to GR/CF: 8.00 ft

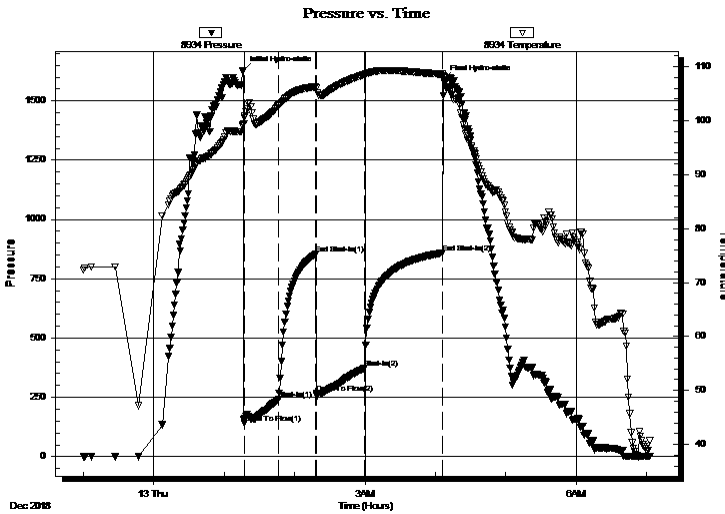
Serial #: 8934

Inside

Press@RunDepth: 372.92 psig @ 3277.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.12.12 End Date: 2018.12.13 Last Calib.: 2018.12.13
 Start Time: 23:00:15 End Time: 07:02:45 Time On Btm: 2018.12.13 @ 01:16:15
 Time Off Btm: 2018.12.13 @ 04:07:15

TEST COMMENT: 30-IF-BOB 50 seconds; Built to 560"
 30-ISI-GTS 5 mins; Bled off in 10 mins; BOB 5 mins after bled off; Built to 23"
 45-FF-BOB in 1&1/2 mins; GTSTSM in 25 mins; Built to 450"
 60-FSI-BOB in 3 mins; Built to 146"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.01	99.25	Initial Hydro-static
1	140.69	100.50	Open To Flow (1)
30	241.23	102.80	Shut-In(1)
62	852.94	106.26	End Shut-In(1)
63	266.60	106.06	Open To Flow (2)
104	372.92	108.58	Shut-In(2)
170	858.71	108.60	End Shut-In(2)
171	1590.15	108.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
375.00	GMCO 20%G 10%M 70%O	5.32
600.00	GMCO 40%G 10%M 50%O	8.51

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy
 PO Box 252
 Great Bend KS 67530 +0252
 ATTN: Jim Musgrove

1-20S-14W Barton,KS
Trump #1
 Job Ticket: 64771 **DST#: 1**
 Test Start: 2018.12.12 @ 23:00:00

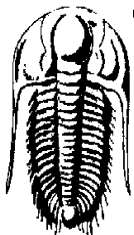
Tool Information

Drill Pipe:	Length: 3200.00 ft	Diameter: 3.82 inches	Volume: 45.36 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 45.36 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3210.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3182.00	
Shut In Tool	5.00			3187.00	
Hydraulic tool	5.00			3192.00	
Jars	5.00			3197.00	
Safety Joint	3.00			3200.00	
Packer	5.00			3205.00	29.00 Bottom Of Top Packer
Packer	5.00			3210.00	
Stubb	1.00			3211.00	
Perforations	1.00			3212.00	
Change Over Sub	1.00			3213.00	
Drill Pipe	63.00			3276.00	
Change Over Sub	1.00			3277.00	
Recorder	0.00	8934	Inside	3277.00	
Recorder	0.00	8368	Outside	3277.00	
Perforations	10.00			3287.00	
Bullnose	3.00			3290.00	80.00 Bottom Packers & Anchor
Total Tool Length:	109.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

1-20S-14W Barton,KS

PO Box 252
Great Bend KS 67530 +0252

Trump #1

Job Ticket: 64771

DST#: 1

ATTN: Jim Musgrove

Test Start: 2018.12.12 @ 23:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
375.00	GMCO 20%G 10%M 70%O	5.316
600.00	GMCO 40%G 10%M 50%O	8.505

Total Length: 975.00 ft

Total Volume: 13.821 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

Serial #: 8934

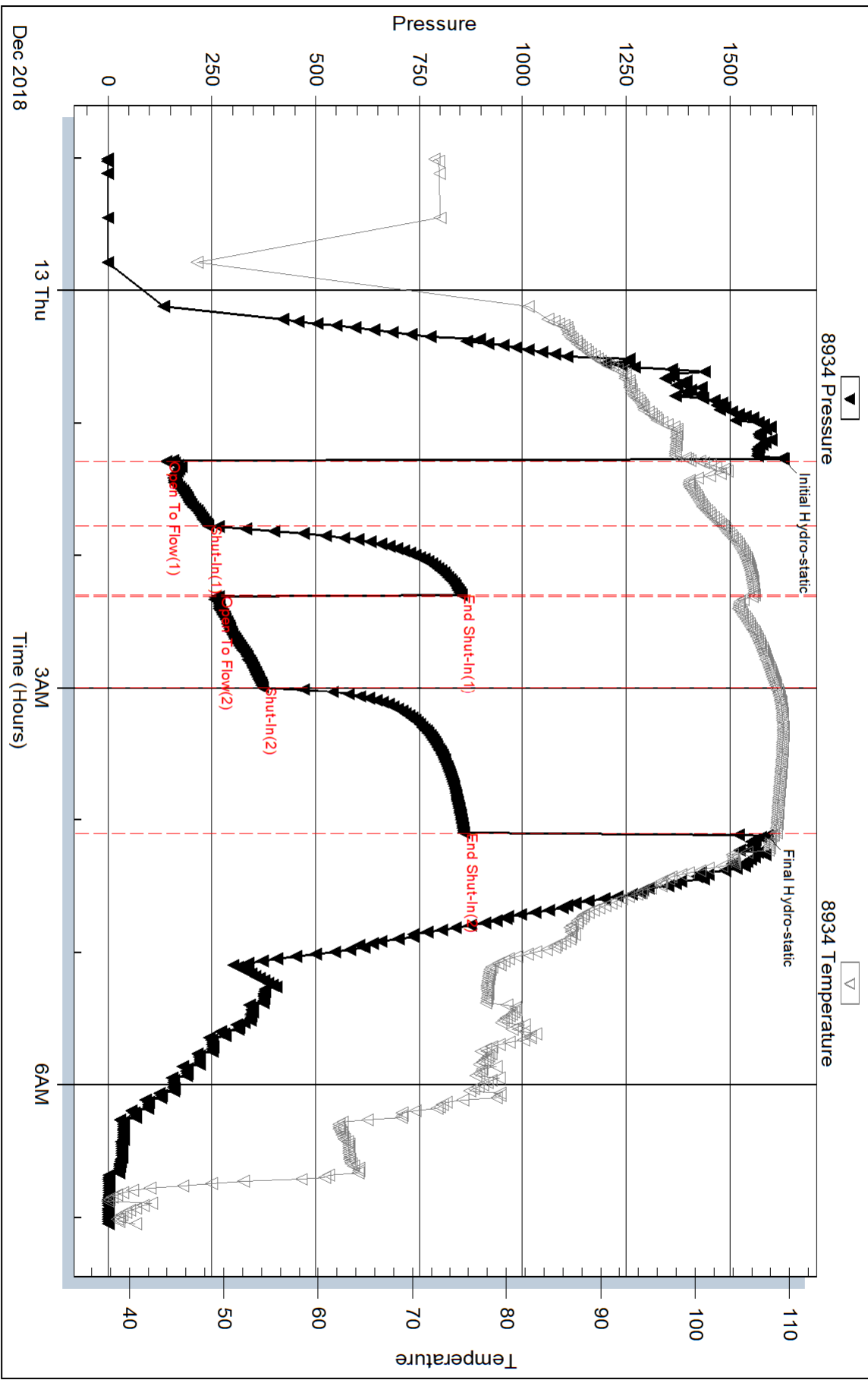
Inside

Charter Energy

Trump #1

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64771

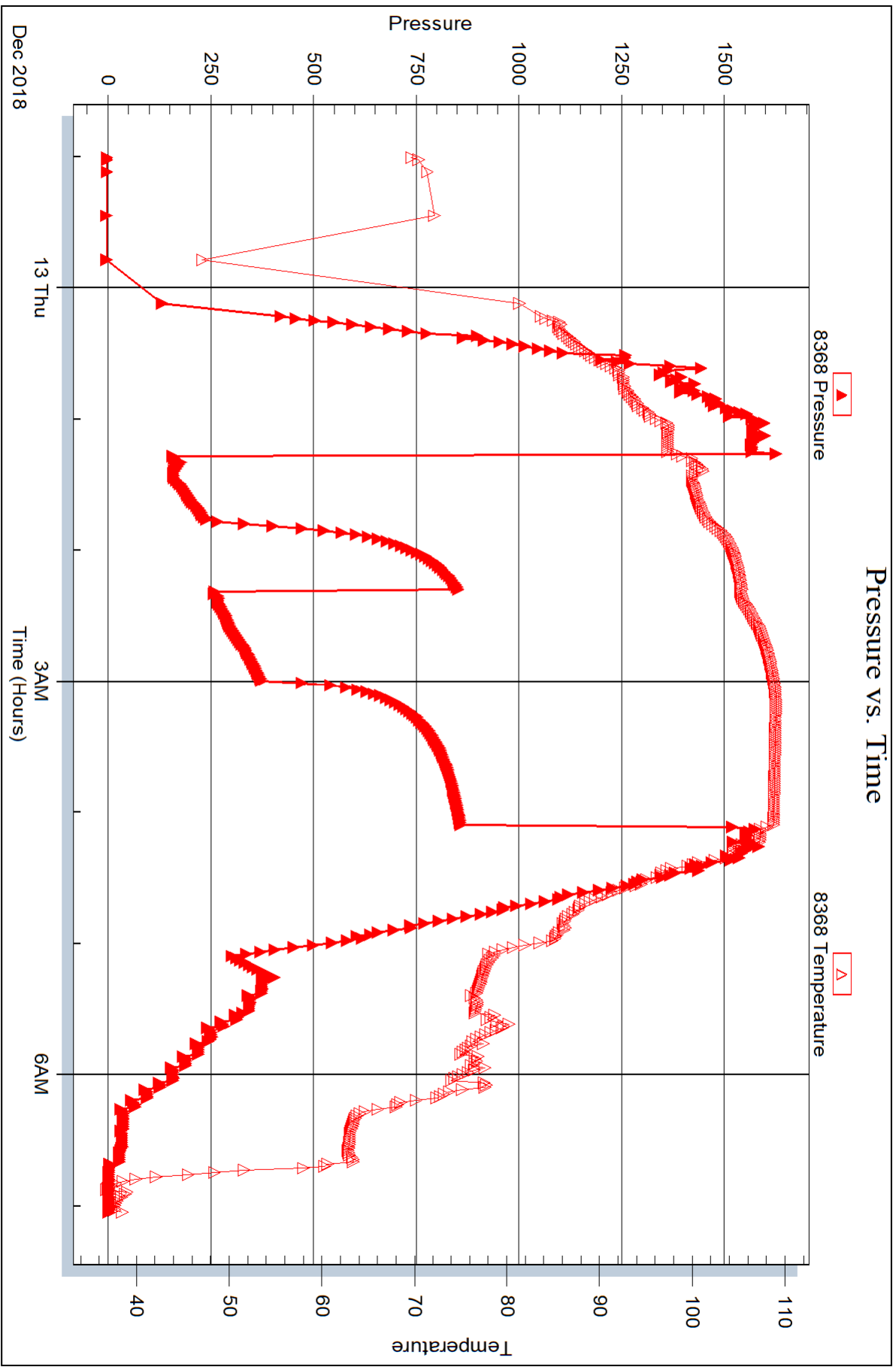
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Serial #: 8368

Outside Charter Energy

Trump #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252
Great Bend KS 67530 +0252

ATTN: Jim Musgrove

Trump #1

1-20S-14W Barton,KS

Start Date: 2018.12.13 @ 17:49:00

End Date: 2018.12.14 @ 00:27:30

Job Ticket #: 64772 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.12.17 @ 14:17:07

Charter Energy
1-20S-14W Barton,KS
Trump #1
DST # 2
LKC-H-K
2018.12.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

1-20S-14W Barton,KS

PO Box 252
Great Bend KS 67530 +0252

Trump #1

Job Ticket: 64772

DST#: 2

ATTN: Jim Musgrove

Test Start: 2018.12.13 @ 17:49:00

Tool Information

Drill Pipe:	Length: 3328.00 ft	Diameter: 3.82 inches	Volume: 47.18 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	56000.00 lb
			<u>Total Volume: 47.18 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3338.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	78.00 ft				
Tool Length:	107.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3310.00	
Shut In Tool	5.00			3315.00	
Hydraulic tool	5.00			3320.00	
Jars	5.00			3325.00	
Safety Joint	3.00			3328.00	
Packer	5.00			3333.00	29.00 Bottom Of Top Packer
Packer	5.00			3338.00	
Stubb	1.00			3339.00	
Perforations	1.00			3340.00	
Change Over Sub	1.00			3341.00	
Drill Pipe	63.00			3404.00	
Change Over Sub	1.00			3405.00	
Recorder	0.00	8934	Inside	3405.00	
Recorder	0.00	8368	Outside	3405.00	
Perforations	8.00			3413.00	
Bullnose	3.00			3416.00	78.00 Bottom Packers & Anchor
Total Tool Length:	107.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

1-20S-14W Barton,KS

PO Box 252
Great Bend KS 67530 +0252

Trump #1

Job Ticket: 64772

DST#: 2

ATTN: Jim Musgrove

Test Start: 2018.12.13 @ 17:49:00

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:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	OCM 10%O 90%M	0.354

Total Length: 25.00 ft Total Volume: 0.354 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

Serial #: 8934

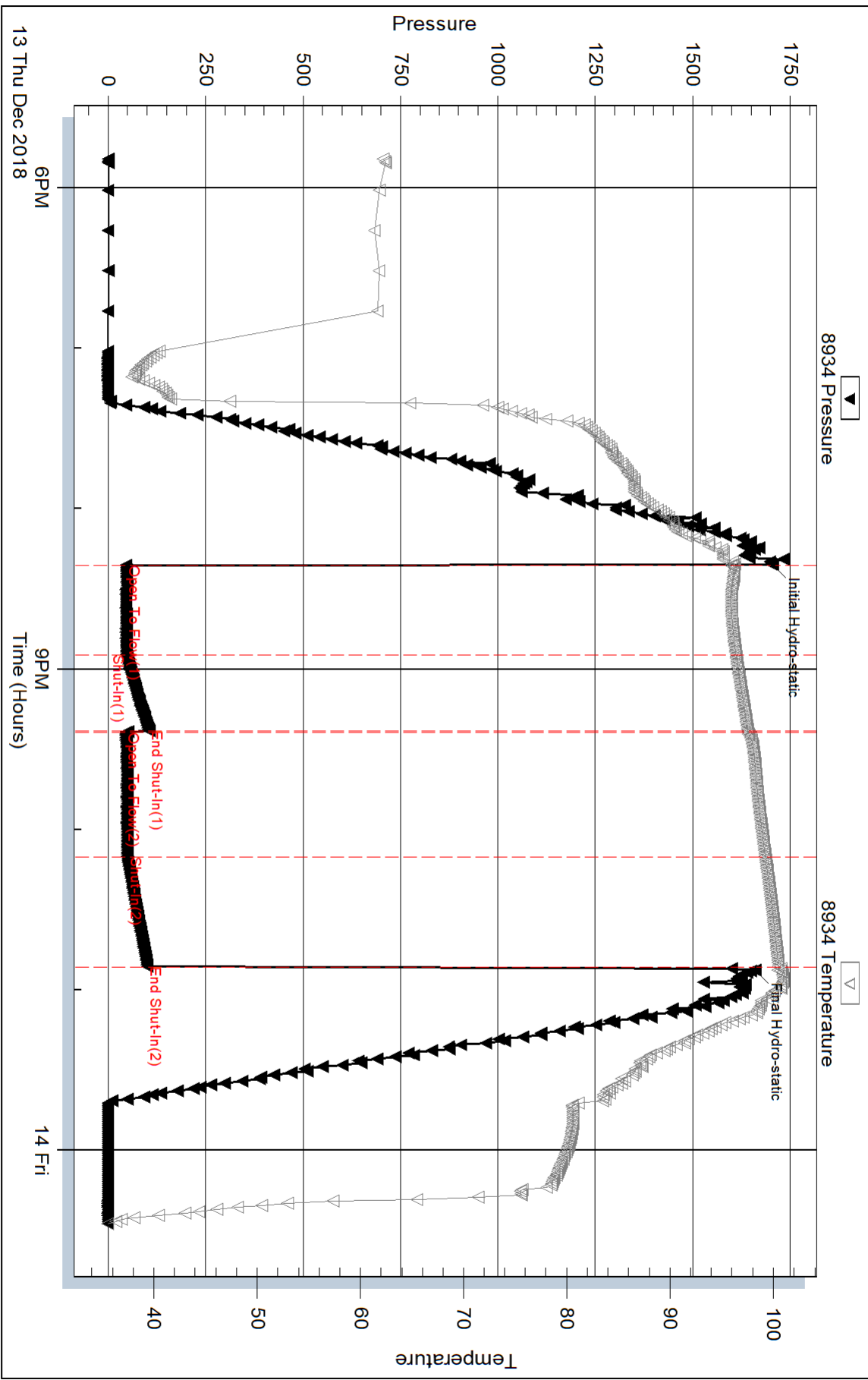
Inside

Charter Energy

Trump #1

DST Test Number: 2

Pressure vs. Time

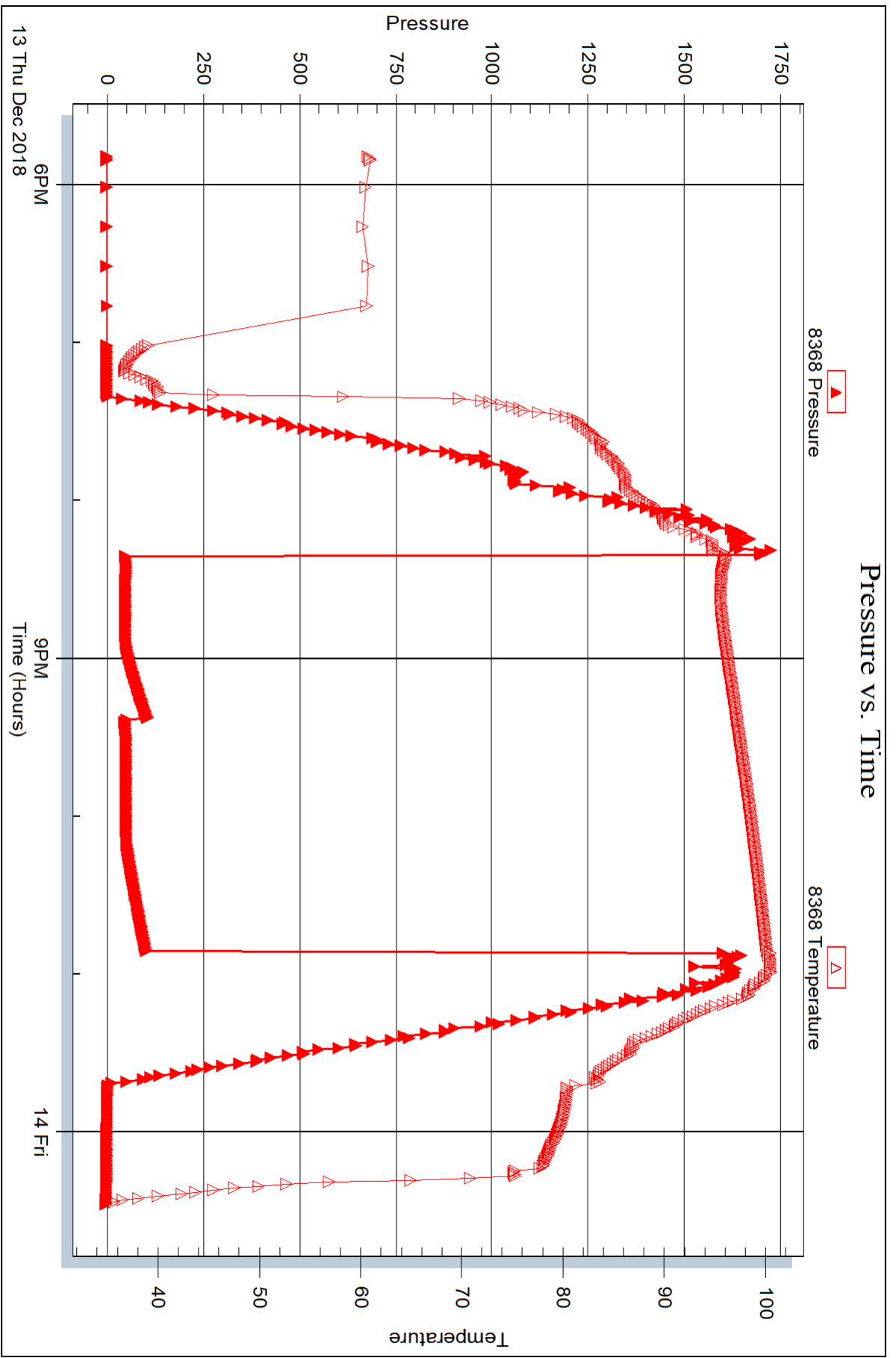


Serial #: 8368

Outside Charter Energy

Trump #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64772

Printed: 2018.12.17 @ 14:17:08



DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252
Great Bend KS 67530 +0252

ATTN: Jim Musgrove

Trump #1

1-20S-14W Barton,KS

Start Date: 2018.12.14 @ 13:30:15

End Date: 2018.12.14 @ 20:15:30

Job Ticket #: 64773 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.12.17 @ 14:12:11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy
 PO Box 252
 Great Bend KS 67530 +0252
 ATTN: Jim Musgrove

1-20S-14W Barton,KS
Trump #1
 Job Ticket: 64773 **DST#: 3**
 Test Start: 2018.12.14 @ 13:30:15

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:36:15
 Tester: Spencer J. Staab
 Time Test Ended: 20:15:30
 Unit No: 84
 Interval: **3440.00 ft (KB) To 3535.00 ft (KB) (TVD)**
 Reference Elevations: 1876.00 ft (KB)
 Total Depth: 3535.00 ft (KB) (TVD)
 1868.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

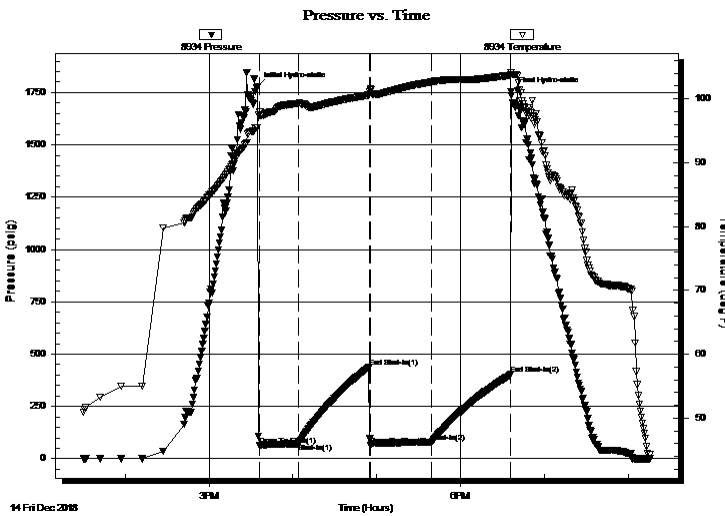
Serial #: 8934

Inside

Press@RunDepth: 78.73 psig @ 3507.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.12.14 End Date: 2018.12.14 Last Calib.: 2018.12.14
 Start Time: 13:30:15 End Time: 20:15:30 Time On Btm: 2018.12.14 @ 15:34:30
 Time Off Btm: 2018.12.14 @ 18:36:00

TEST COMMENT: 30-IF-BOB 40 secs; Built to 220"
 45-ISI-Bled off in 5 mins; No Return
 45-FF-BOB instantaneously; built to 195"
 60-FSI-Bled off in 3 mins; No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1776.43	95.54	Initial Hydro-static
2	62.48	97.99	Open To Flow (1)
30	72.38	99.31	Shut-In(1)
80	437.50	100.60	End Shut-In(1)
81	63.43	101.59	Open To Flow (2)
125	78.73	102.65	Shut-In(2)
182	404.51	103.70	End Shut-In(2)
182	1754.94	104.14	Final Hydro-static

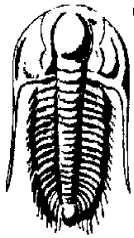
Recovery

Length (ft)	Description	Volume (bbl)
80.00	Mud w/oil spots 100%M	1.13
0.00	950' GIP 100%G	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy
 PO Box 252
 Great Bend KS 67530 +0252
 ATTN: Jim Musgrove

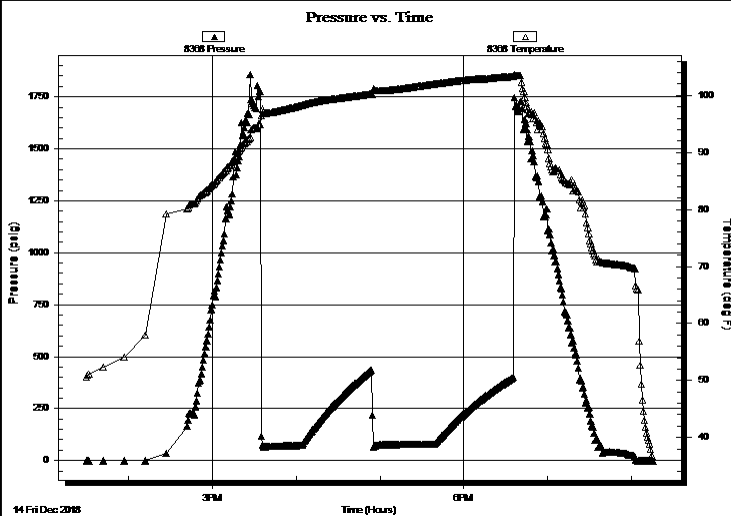
1-20S-14W Barton,KS
Trump #1
 Job Ticket: 64773 **DST#: 3**
 Test Start: 2018.12.14 @ 13:30:15

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:36:15 Tester: Spencer J. Staab
 Time Test Ended: 20:15:30 Unit No: 84
 Interval: **3440.00 ft (KB) To 3535.00 ft (KB) (TVD)** Reference Elevations: 1876.00 ft (KB)
 Total Depth: 3535.00 ft (KB) (TVD) 1868.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8368 Outside
 Press@RunDepth: psig @ 3507.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.12.14 End Date: 2018.12.14 Last Calib.: 2018.12.14
 Start Time: 13:30:15 End Time: 20:15:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-BOB 40 secs; Built to 220"
 45-ISI-Bled off in 5 mins; No Return
 45-FF-BOB instantaneously; built to 195"
 60-FSI-Bled off in 3 mins; No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Mud w/oil spots 100%M	1.13
0.00	950' GIP 100%G	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

1-20S-14W Barton,KS

PO Box 252
Great Bend KS 67530 +0252

Trump #1

Job Ticket: 64773

DST#: 3

ATTN: Jim Musgrove

Test Start: 2018.12.14 @ 13:30:15

Tool Information

Drill Pipe:	Length: 3423.00 ft	Diameter: 3.82 inches	Volume: 48.52 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 48.52 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3440.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	124.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3412.00	
Shut In Tool	5.00			3417.00	
Hydraulic tool	5.00			3422.00	
Jars	5.00			3427.00	
Safety Joint	3.00			3430.00	
Packer	5.00			3435.00	29.00 Bottom Of Top Packer
Packer	5.00			3440.00	
Stubb	1.00			3441.00	
Perforations	1.00			3442.00	
Change Over Sub	1.00			3443.00	
Drill Pipe	63.00			3506.00	
Change Over Sub	1.00			3507.00	
Recorder	0.00	8934	Inside	3507.00	
Recorder	0.00	8368	Outside	3507.00	
Perforations	25.00			3532.00	
Bullnose	3.00			3535.00	95.00 Bottom Packers & Anchor
Total Tool Length:	124.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

1-20S-14W Barton,KS

PO Box 252
Great Bend KS 67530 +0252

Trump #1

Job Ticket: 64773

DST#: 3

ATTN: Jim Musgrove

Test Start: 2018.12.14 @ 13:30:15

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:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	Mud w /oil spots 100%M	1.134
0.00	950' GIP 100%G	0.000

Total Length: 80.00 ft

Total Volume: 1.134 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

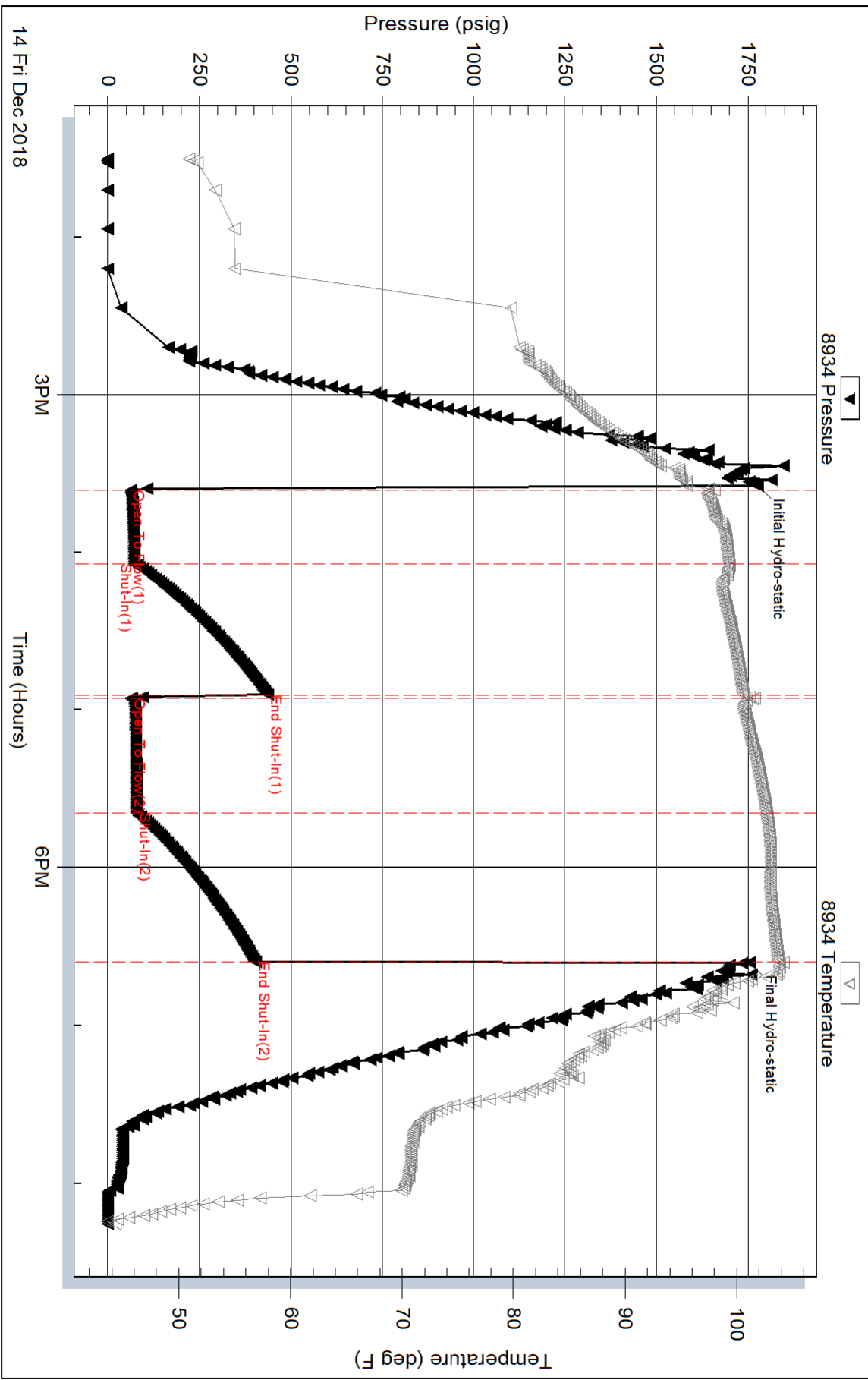
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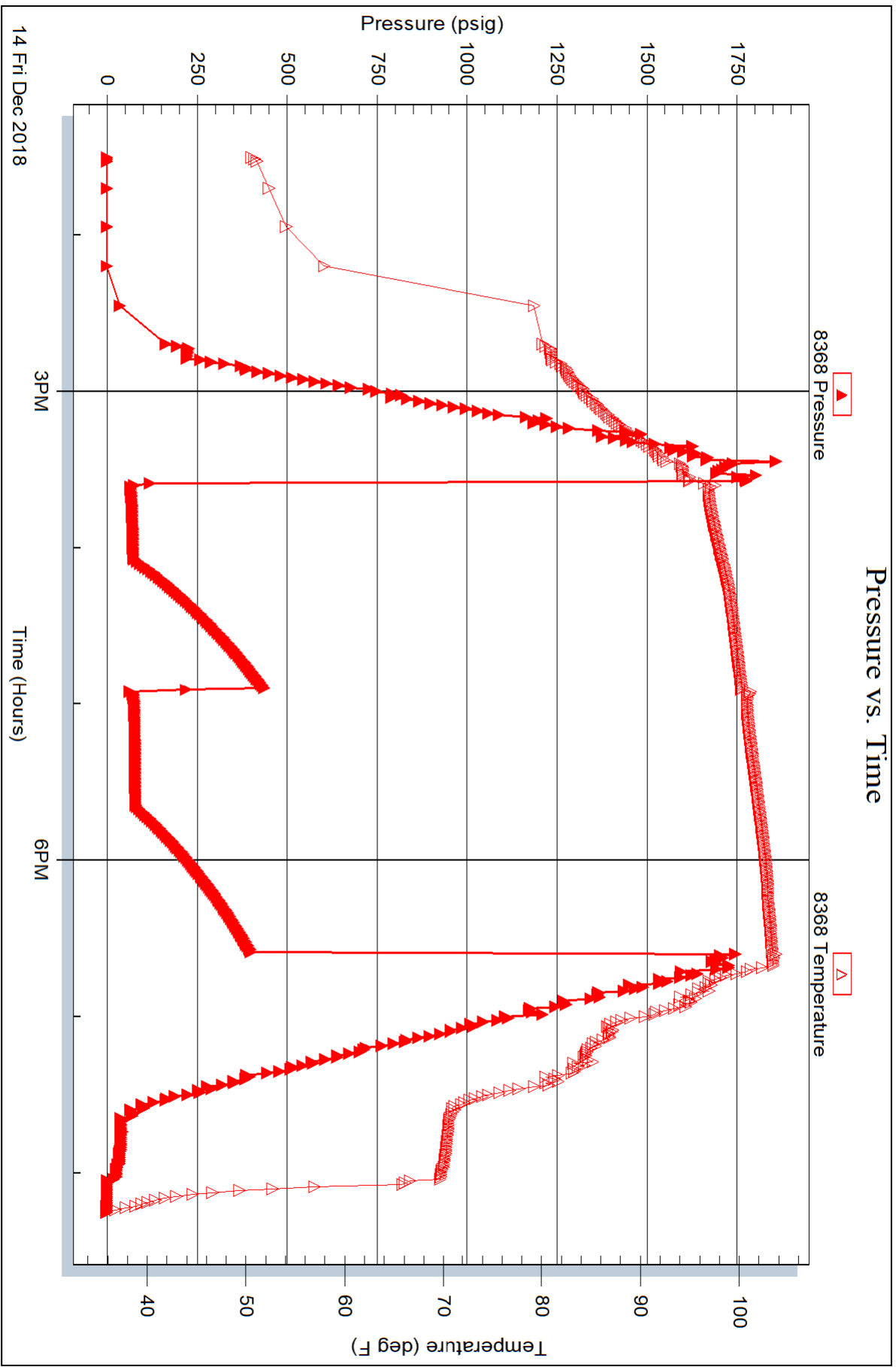
Laboratory Name:

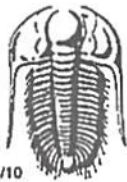
Laboratory Location:

Recovery Comments: 1#LCM

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64771

Well Name & No. Trump #1 Test No. 1 Date 12/12/2018
 Company Charter Energy Elevation 1876 KB 1868 GL
 Address PO Box 8252 Great Bend KS 67530 + 0252
 Co. Rep / Geo. Jim Musgrove Rig Royal #2
 Location: Sec. 1 Twp 20s Rge. 14w Co. Barton State Ks

Interval Tested 3210' - 3290' Zone Tested LKC 'A-7'
 Anchor Length 80' Drill Pipe Run 3200' Mud Wt. 8.7
 Top Packer Depth 3205' Drill Collars Run — Vis 65
 Bottom Packer Depth 3210' Wt. Pipe Run — WL 7.2
 Total Depth 3290' Chlorides 6500 ppm System LCM 2#

Blow Description 17- BOB 50 secs Built to 560"
151- 175 in 5 min; Bled off in 10 min Built to 23" BOB 5 min
77- BOB in 1:20; 175 7 min; Built to 450"
451- BOB in 3 min; Built to 146"

Rec	Feet of	%gas	%oil	%water	%mud
<u>375'</u>	<u>YMCO</u>	<u>20</u>	<u>70</u>	<u>10</u>	<u>—</u>
<u>600'</u>	<u>YMCO</u>	<u>40</u>	<u>50</u>	<u>10</u>	<u>—</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

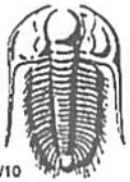
Rec Total 975 BHT 108° Gravity 34° API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 1628 Test 1050 T-On Location 22:40
 (B) First Initial Flow 140 Jars _____ T-Started 2:30
 (C) First Final Flow 241 Safety Joint _____ T-Open 01:17 12/13/2018
 (D) Initial Shut-In 852 Circ Sub _____ T-Pulled 04:02
 (E) Second Initial Flow 266 Hourly Standby _____ T-Out 07:03
 (F) Second Final Flow 372 Mileage 132R7 132 Comments Stayed 3 nights in Travel Lodge
 (G) Final Shut-In 858 Sampler _____ EM Tool _____
 (H) Final Hydrostatic 1590 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1182
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 60
 Sub Total 1182 MP/DST Disc't _____

Approved By _____ Our Representative Spencer J. Stueb
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-1056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64772

Well Name & No. Trump #1 Test No. 2 Date 12/13/2018
 Company Charter Energy Elevation 1876 KB 1868 GL
 Address PO BOX 252 Great Bend KS 67530-0252
 Co. Rep / Geo. Jim Musgrove Rig Royal #2
 Location: Sec. 1 Twp 20s Rge. 14w Co. Barton State KS

Interval Tested 3335' - 3416' Zone Tested LHC 'A-A'
 Anchor Length 78' Drill Pipe Run 3328' Mud Wt. 8.7
 Top Packer Depth 3333' Drill Collars Run - Vis 66
 Bottom Packer Depth 3338' Wt. Pipe Run - WL 7.2
 Total Depth 3416' Chlorides 7300 ppm System LCM 1#

Blow Description 77-Weak; Built to 3 1/2"
75D- No Return
77-Weak; Built to 3 3/4"
75D- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>25'</u>	<u>CCM</u>		<u>10%</u>		<u>90%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25' BHT 100° Gravity - API RW - @ - °F Chlorides - ppm

- (A) Initial Hydrostatic 1704
- (B) First Initial Flow 45
- (C) First Final Flow 48
- (D) Initial Shut-In 105
- (E) Second Initial Flow 45
- (F) Second Final Flow 49
- (G) Final Shut-In 100
- (H) Final Hydrostatic 1659

Initial Open 30
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 45

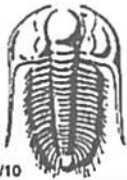
- Test 1050
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 13227 132
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

T-On Location 17:30
 T-Started 17:49
 T-Open 20:21
 T-Pulled 22:51
 T-Out 00:26 12/14/2018

Comments _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1182

Approved By _____ Our Representative Spencer J. Smith Thobis!
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-0086



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64773

Well Name & No. Trump #1 Test No. 3 Date 12/14/2018
 Company Charter Energy Elevation 1876' KB 1868' GL
 Address PO BOX 252 Great Bend KS 67530-0252
 Co. Rep / Geo. Jim Musgrave Rig Royal #2
 Location: Sec. 1 Twp 20s Rge. 14w Co. Barton State Ks

Interval Tested 3440' - 3535' Zone Tested Arbuckle
 Anchor Length 95' Drill Pipe Run 3423' Mud Wt. 8.7
 Top Packer Depth 3435' Drill Collars Run — Vis 56
 Bottom Packer Depth 3440' Wt. Pipe Run — WL 7.6
 Total Depth 3535' Chlorides 8000 ppm System LCM 1#

Blow Description 17-BOB 40 sec; Built to 20"
1st - 5 min to bleed off; No Return

77-BOB instantaneously; Built to 19.5"

78- No Return; Bled off in 3 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>80'</u>	<u>Mud w/ oil spots</u>			<u>100</u>	
<u>95'</u>	<u>JAP</u>	<u>100</u>			

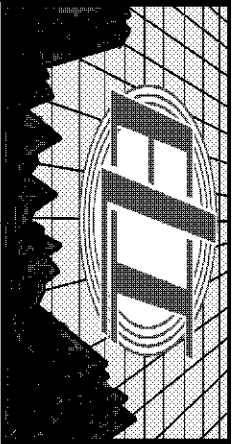
Rec Total 80' BHT 103° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1776 Test 1050 T-On Location 13:07
 (B) First Initial Flow 62 Jars — T-Started 13:30
 (C) First Final Flow 72 Safety Joint — T-Open 15:34
 (D) Initial Shut-In 437 Circ Sub — T-Pulled 18:35
 (E) Second Initial Flow 63 Hourly Standby — T-Out 20:14
 (F) Second Final Flow 78 Mileage 13227 132 Comments loaded after test
 (G) Final Shut-In 404 Sampler —
 (H) Final Hydrostatic 1754 Straddle — EM Tool —

Initial Open 30 Shale Packer — Ruined Shale Packer —
 Initial Shut-In 45 Extra Packer — Ruined Packer —
 Final Flow 45 Extra Recorder — Extra Copies —
 Final Shut-In 60 Day Standby — Sub Total 0
 Accessibility — Total 1182
 Sub Total 1182 MP/DST Disc't —

Approved By _____ Our Representative James J. Stahl Thanks!
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-0056



**DUAL
INDUCTION
LOG**

Company CHARTER ENERGY, INC.
Well TRUMP #1
Field
County BARTON State KANSAS

Location: API #: 15-009-26242-0000
2275' FSL & 1932' FEL
SW - NE - NW - SE
SEC 1 TWP 20S RGE 14W
Permanent Datum GROUND LEVEL Elevation 1868
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Elevation
K.B. 1873
D.F. 1871
G.L. 1868

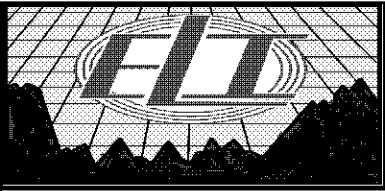
Date	12/15/18
Run Number	ONE
Depth Driller	3600
Depth Logger	3602
Bottom Logged Interval	3600
Top Log Interval	00
Casing Driller	8 5/8" @ 8'10'
Casing Logger	808'
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	8.7/56
PH / Fluid Loss	9.0/7.6
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.45 @ 55F
Rmt @ Meas. Temp	.33 @ 55F
Rmc @ Meas. Temp	.54 @ 55F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.22 @ 112F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	112F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	JIM MUSGROVE

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
GREAT BEND, KS. - 1 MILE SOUTHWEST ON HWY 156 TO RD. 30 - SOUTH PAST
FENCE - EAST INTO

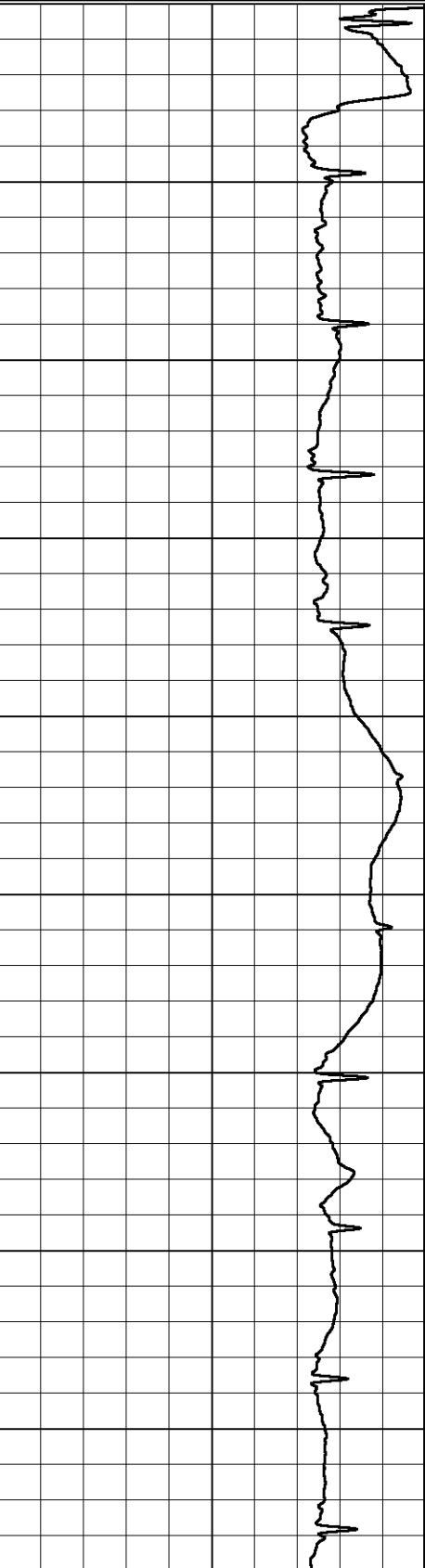
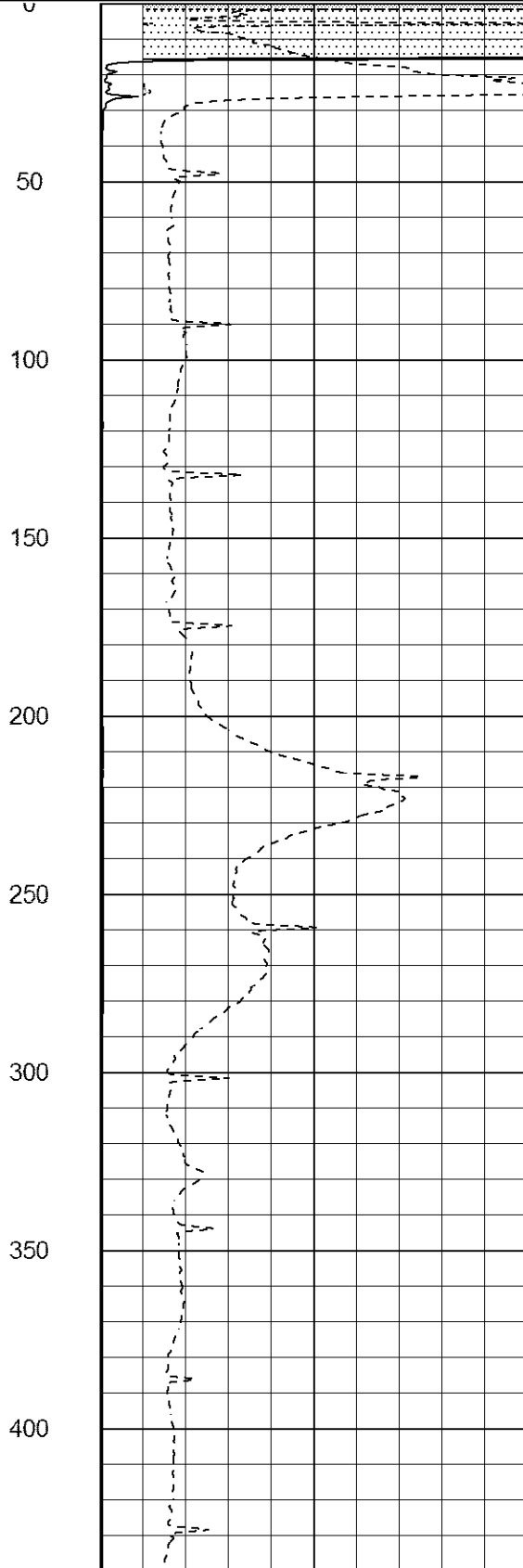
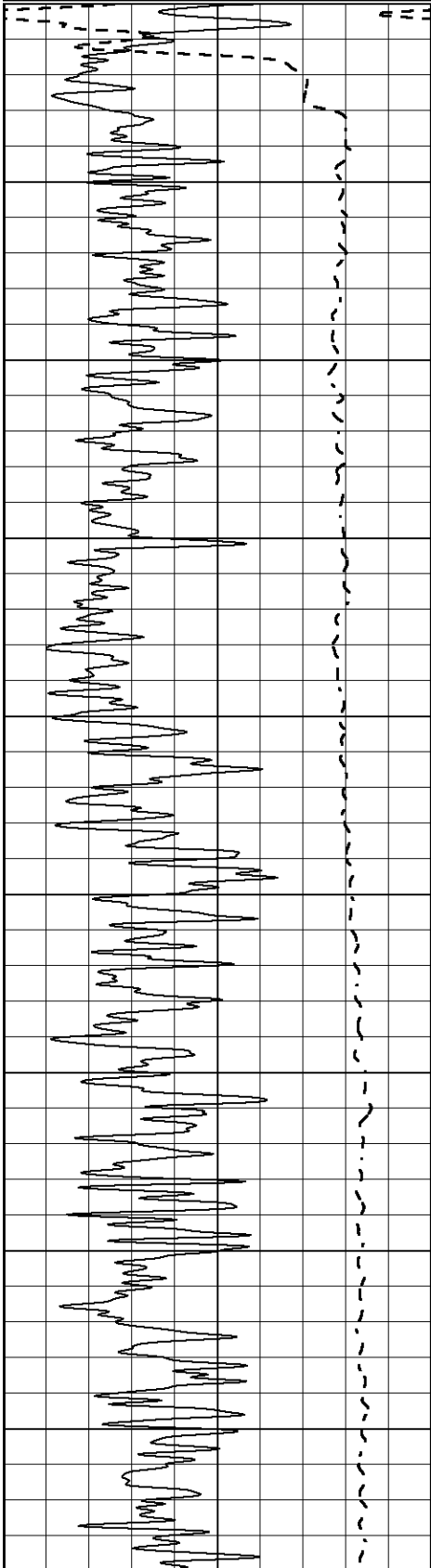


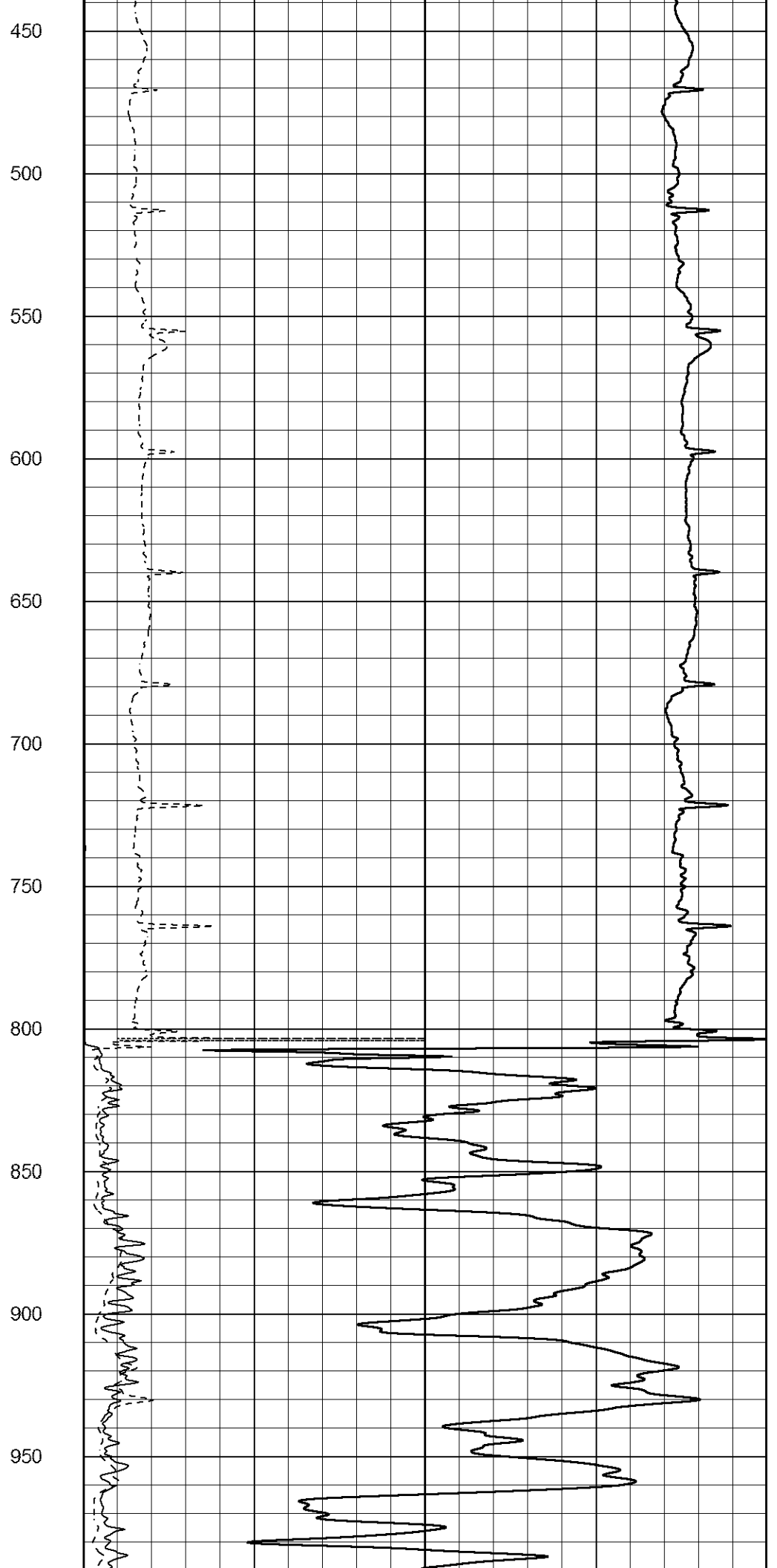
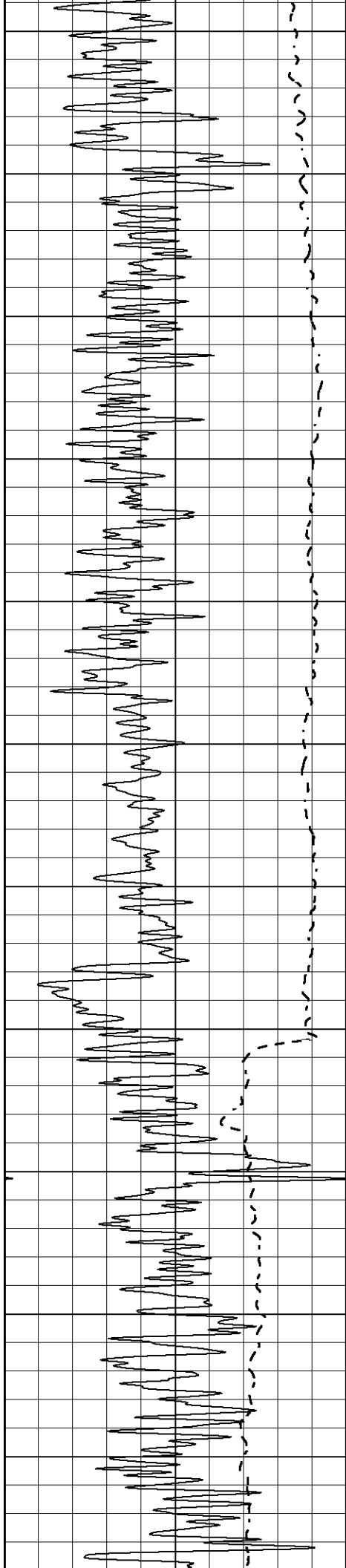
MAIN SECTION

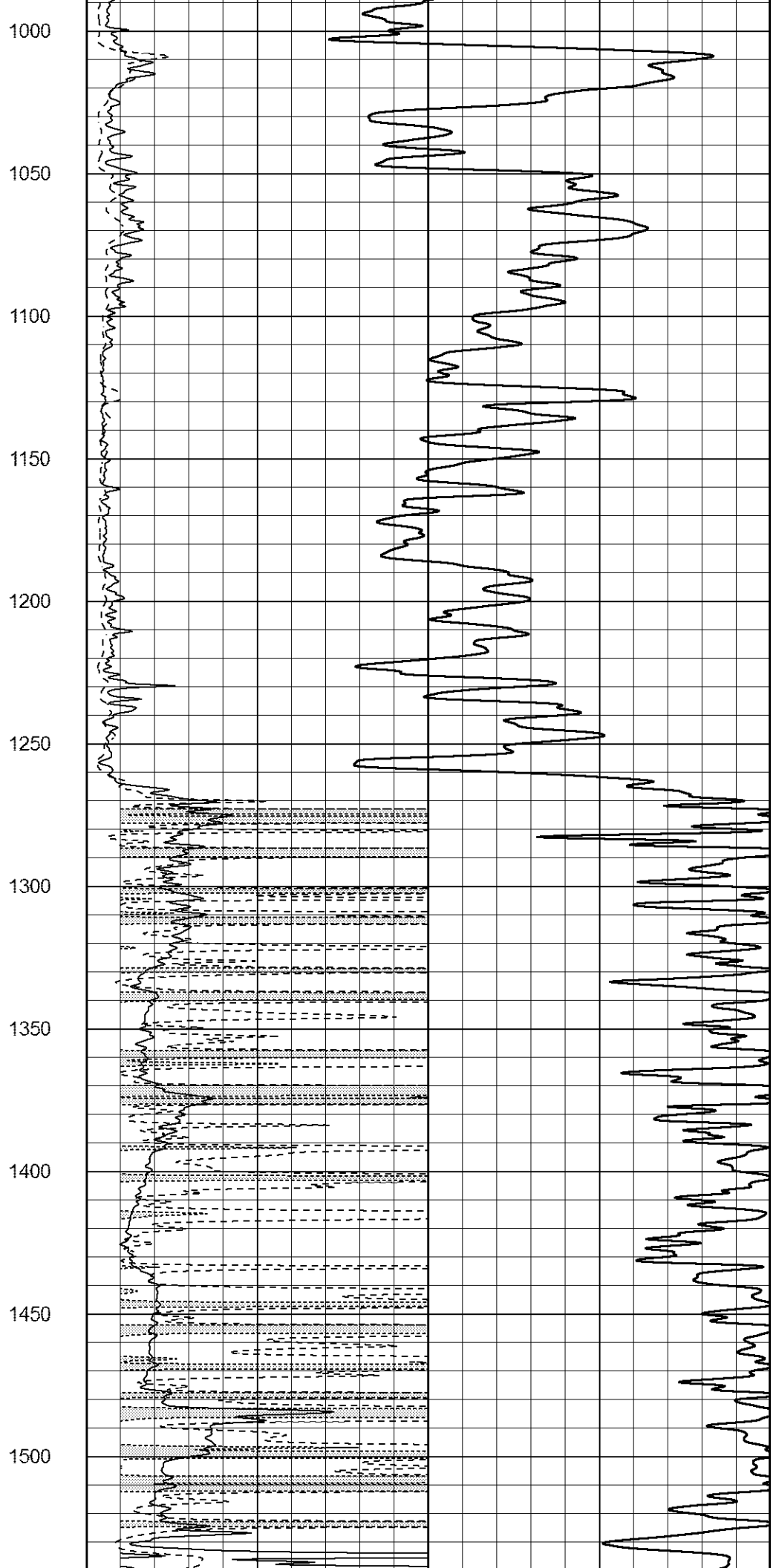
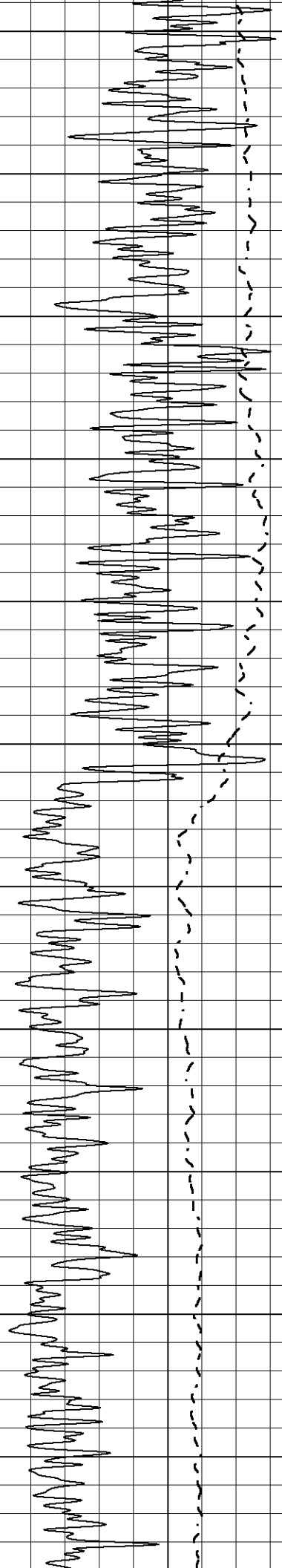
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 Dataset Creation Sat Dec 15 06:43:19 2018
 Charted by Depth in Feet scaled 1:600

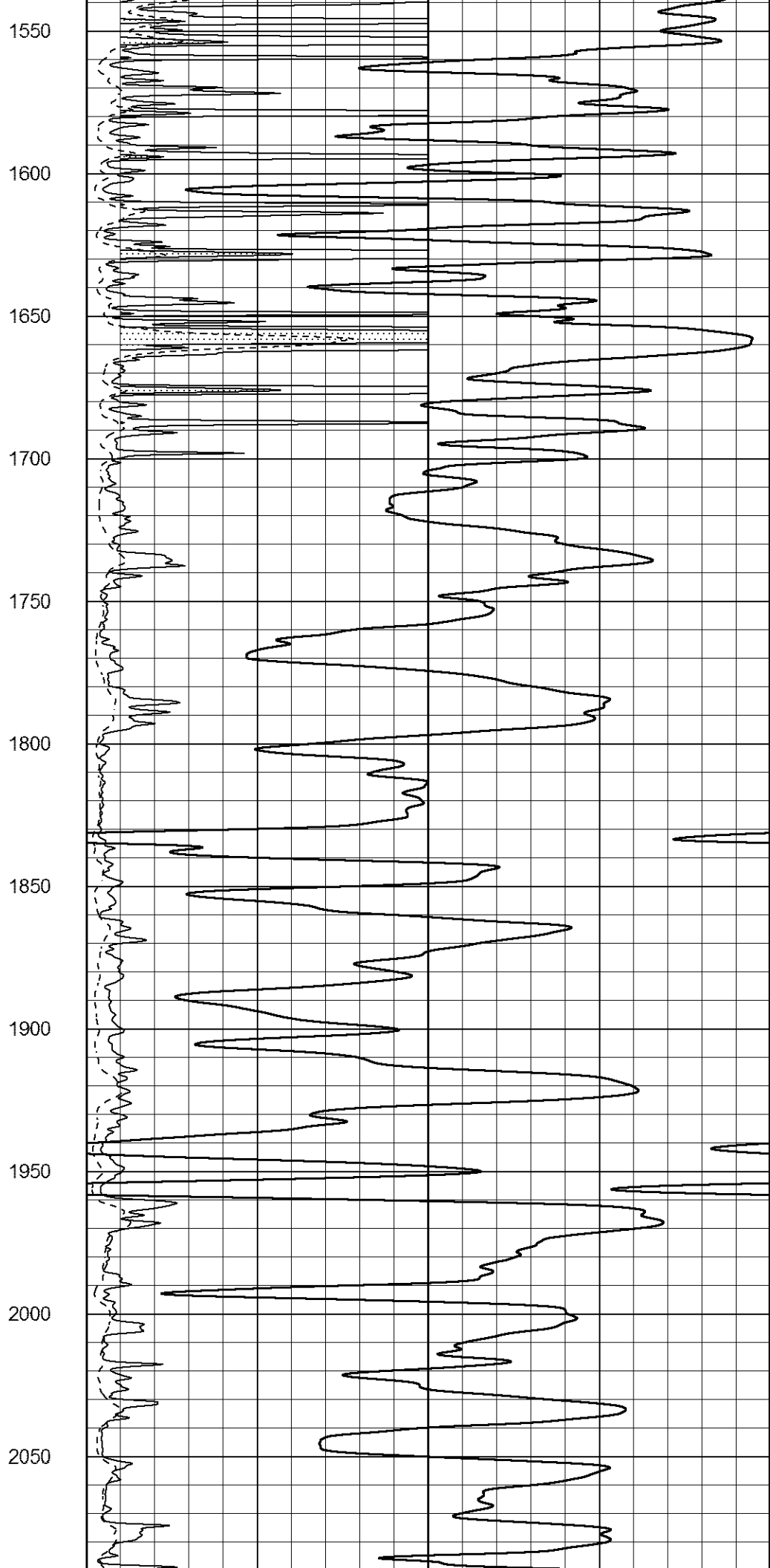
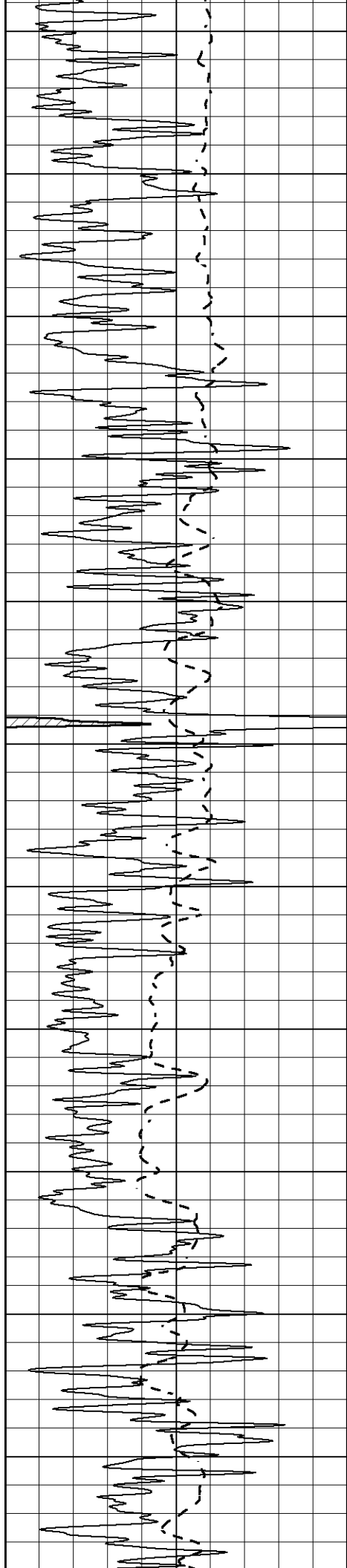
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 -100 SP (mV) 100

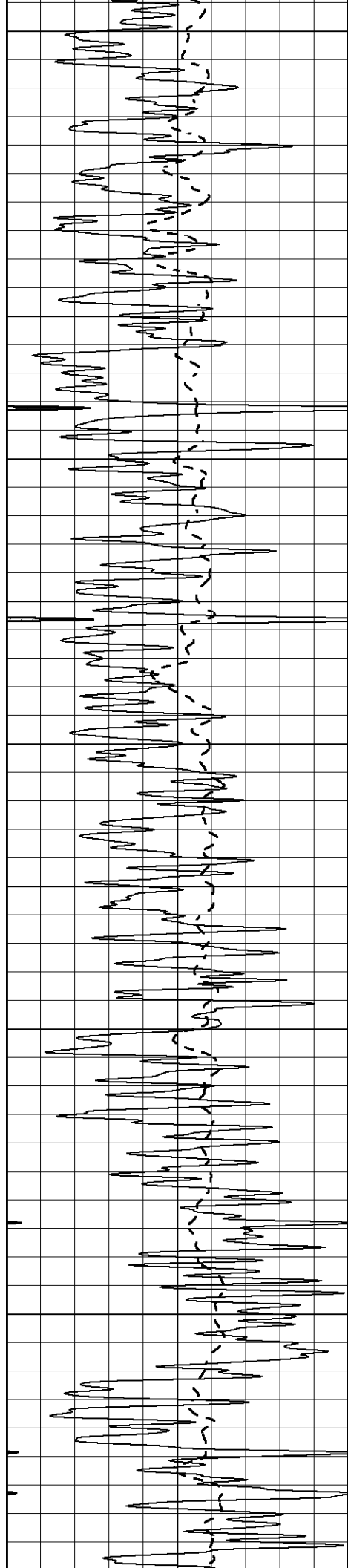
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 0 RLL3 (Ohm-m) 50
 0 Deep Induction (Ohm-m) 50
 50 RILD X10 (Ohm-m) 500
 50 RLL3 X10 (Ohm-m) 500











2100

2150

2200

2250

2300

2350

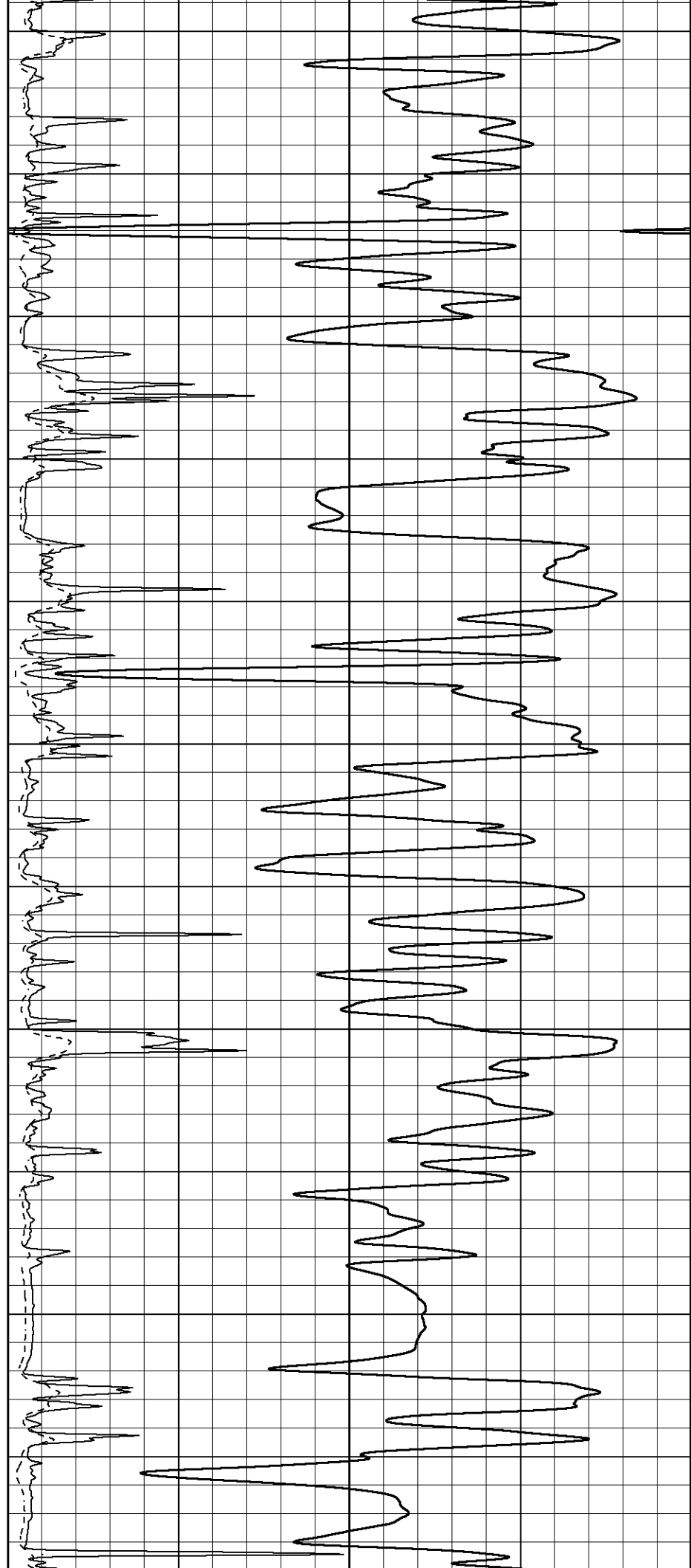
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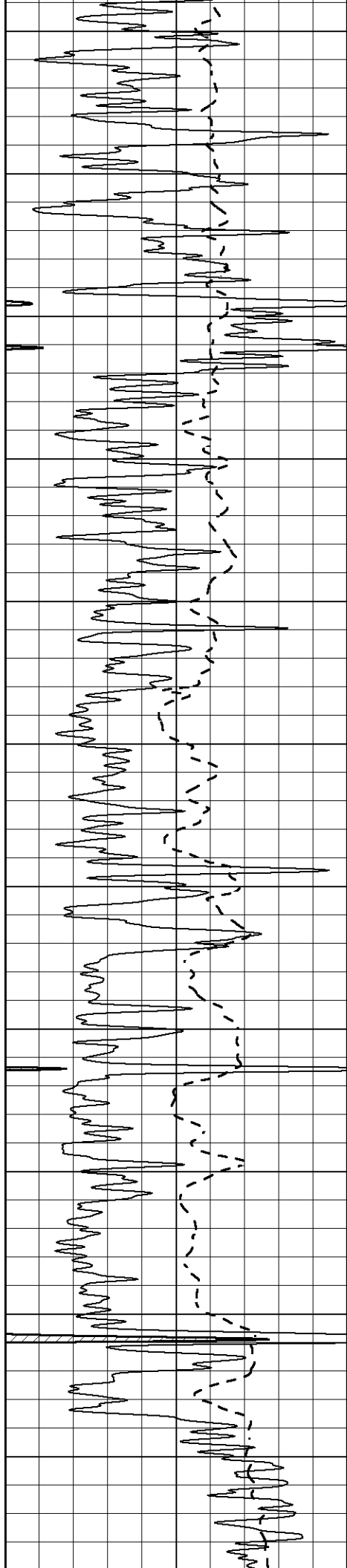
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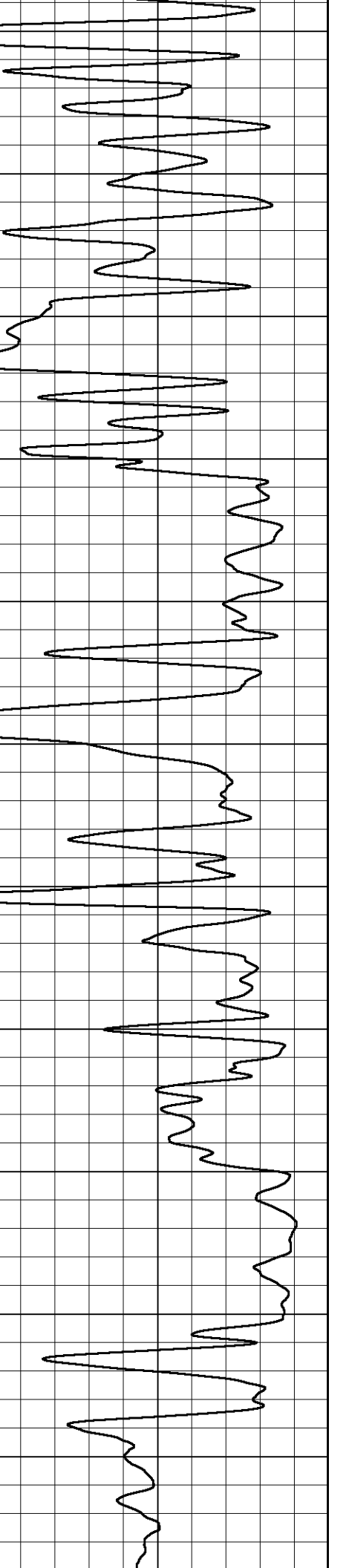
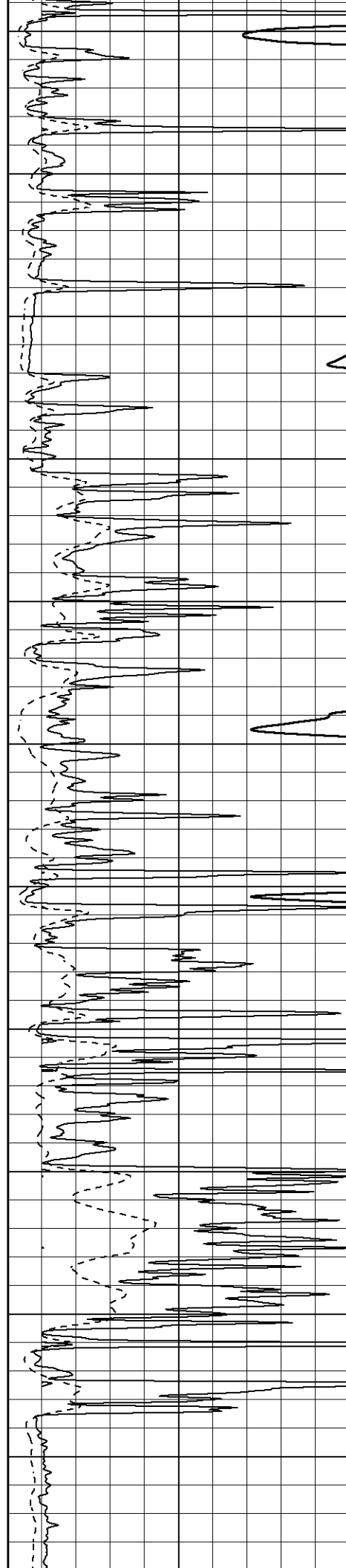
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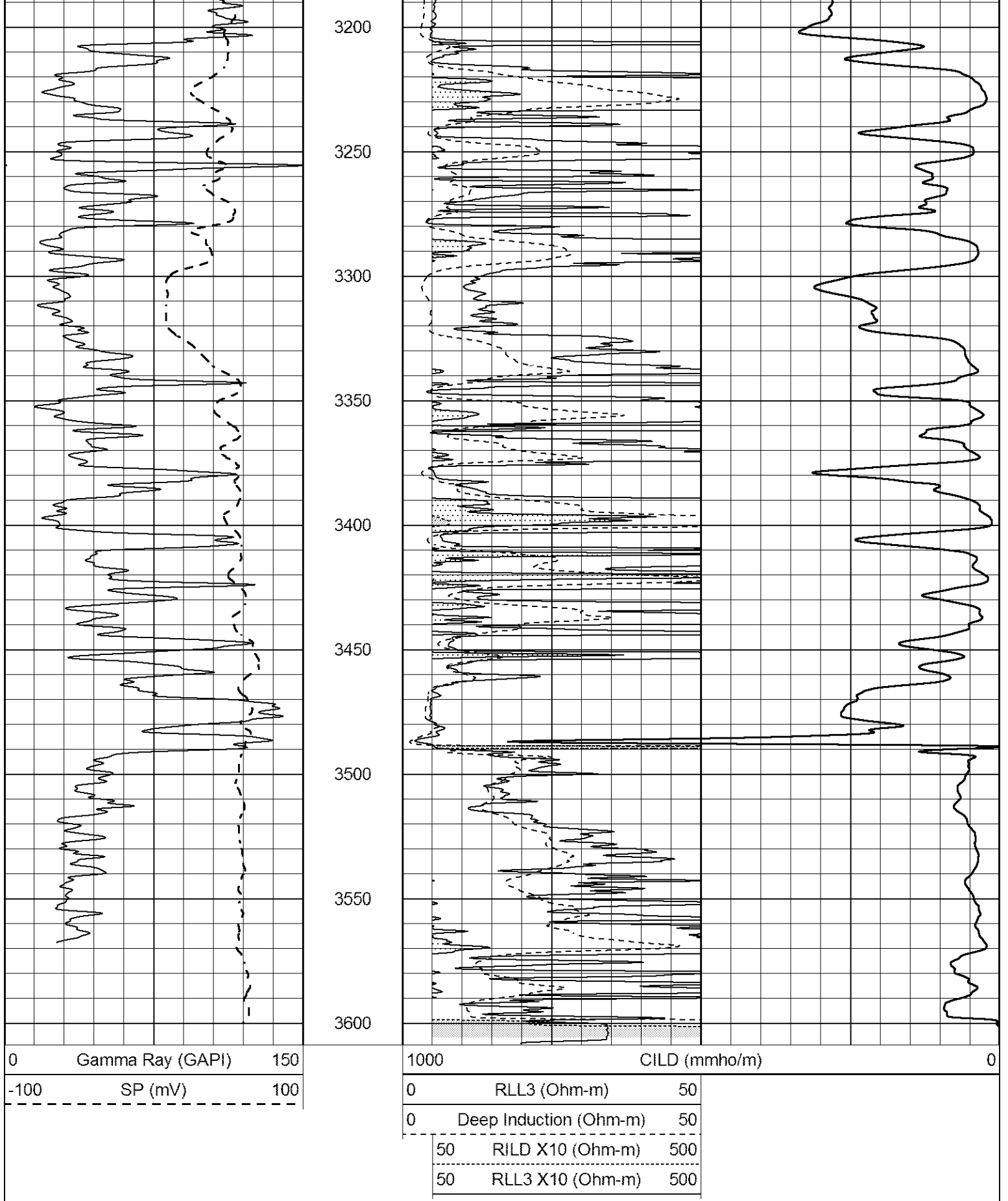
2600





2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150



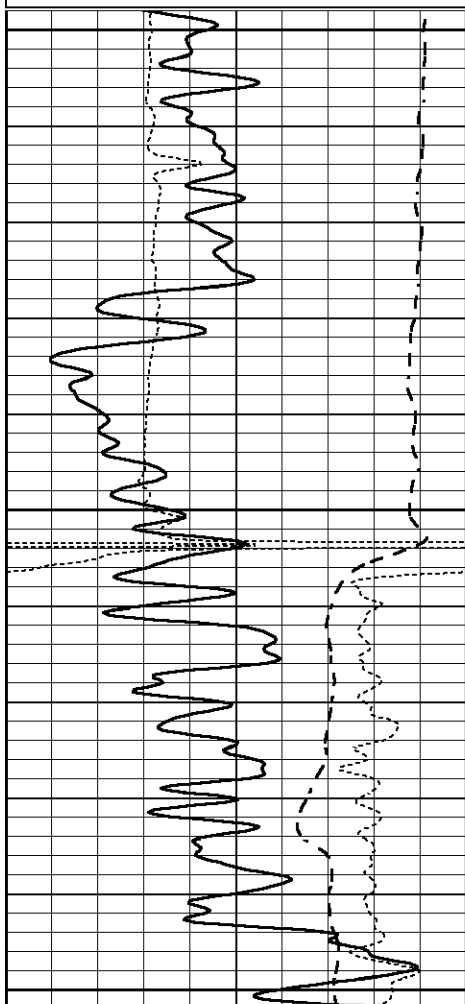


ANHYDRITE

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 Charted by Depth in Feet scaled 1:240

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

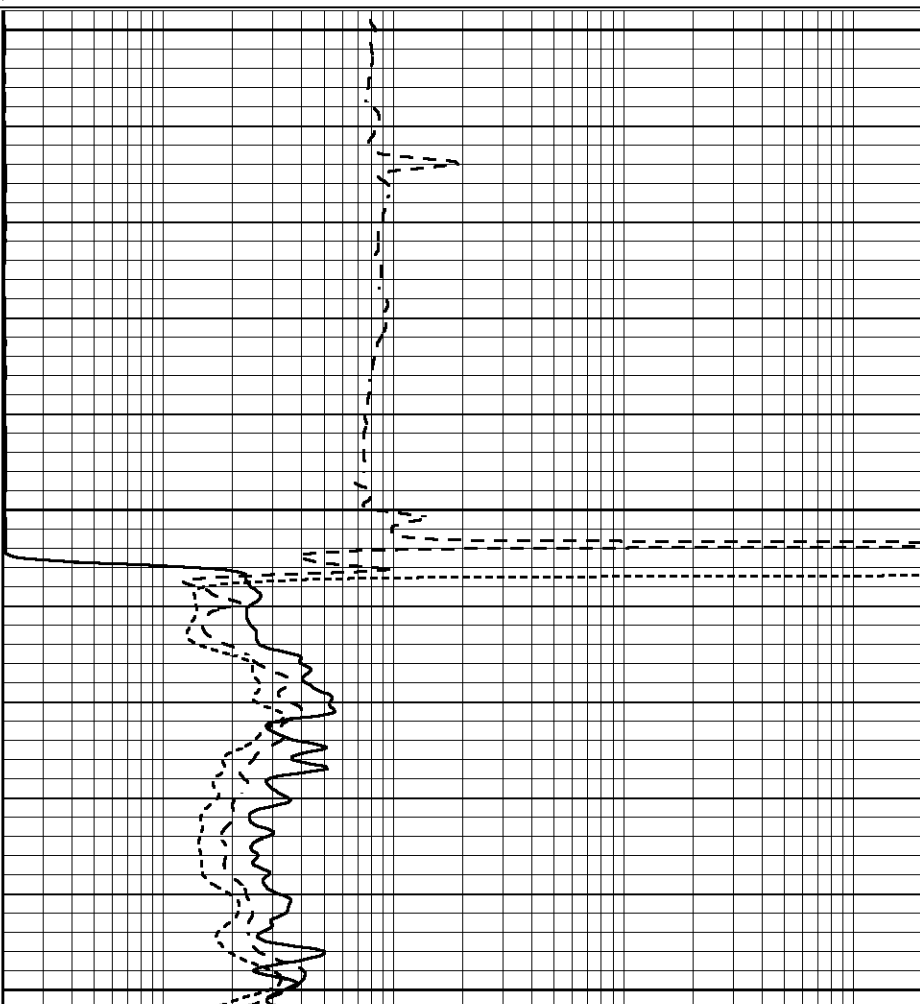
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



750

800

850



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

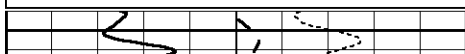


MAIN SECTION

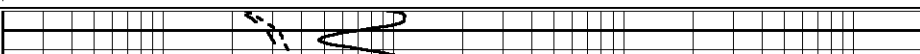
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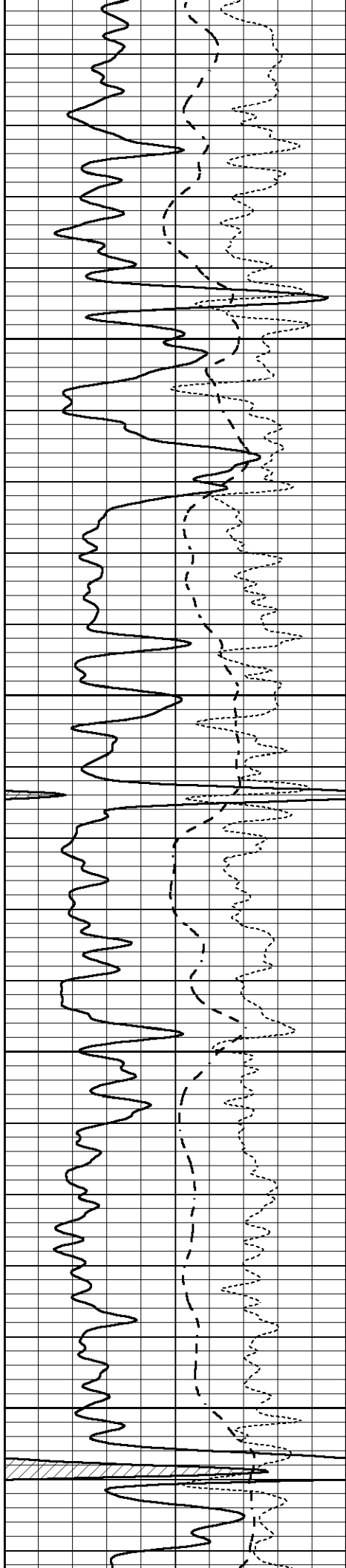
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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



2900



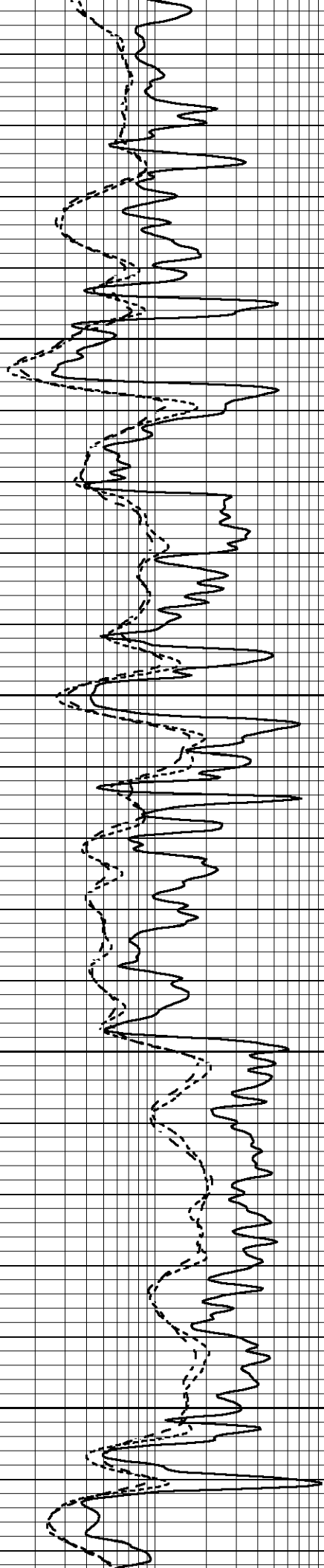


2950

3000

3050

3100

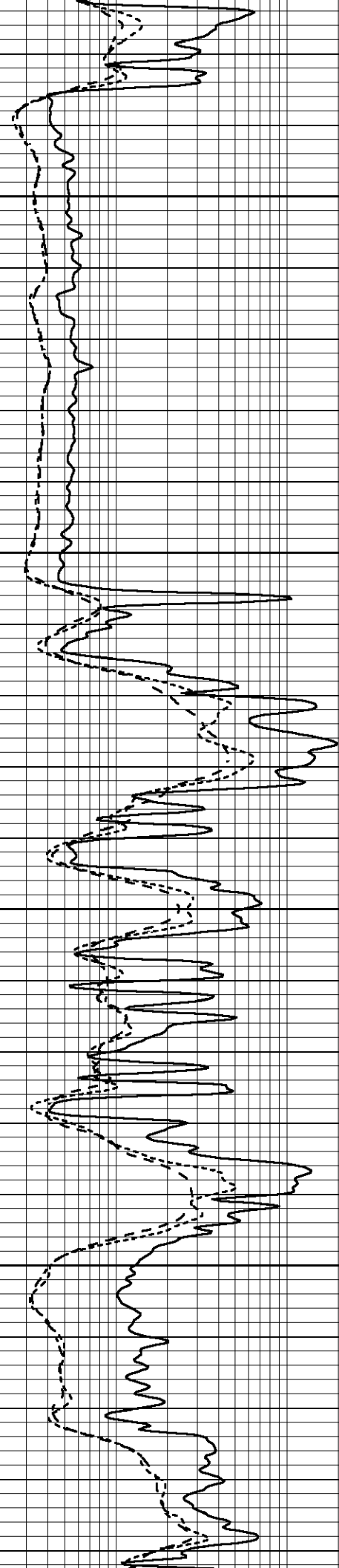
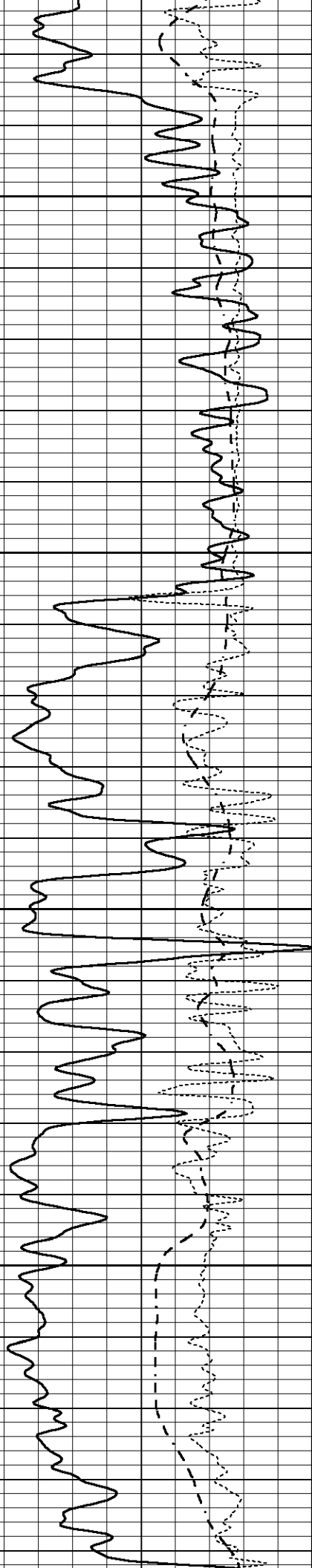


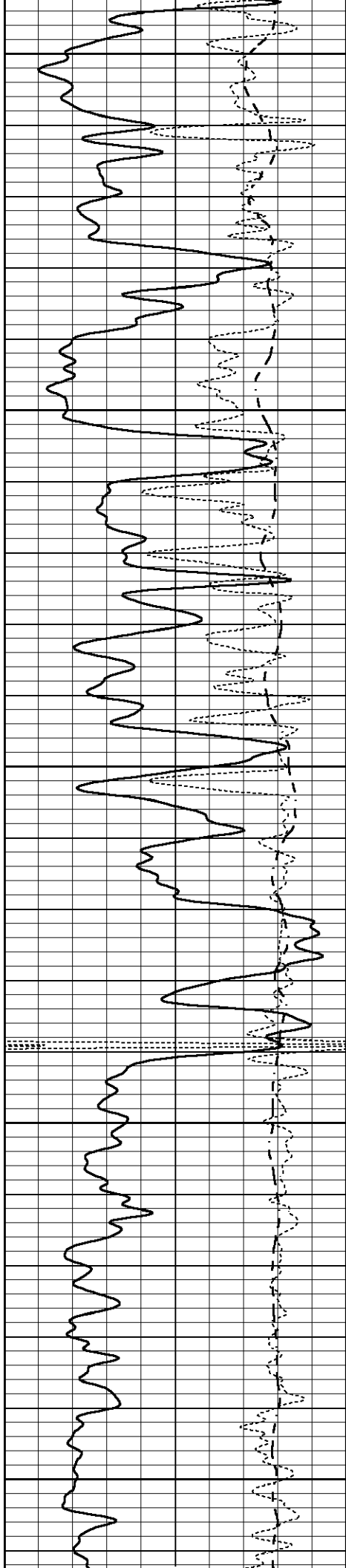
3150

3200

3250

3300





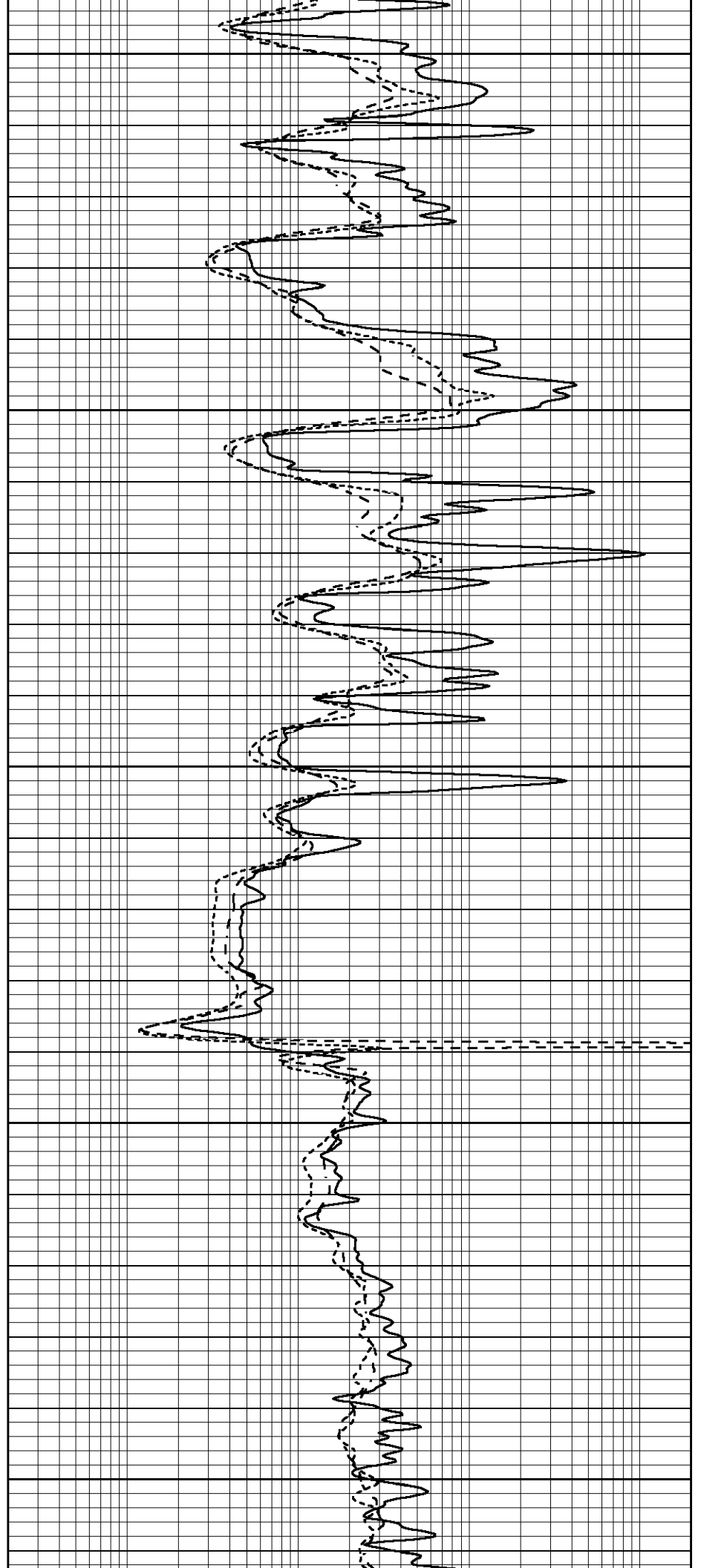
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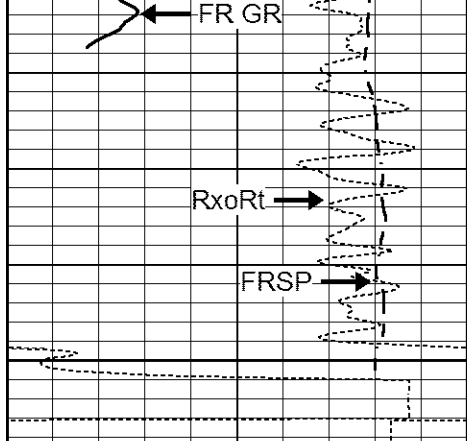
3400

3450

3500

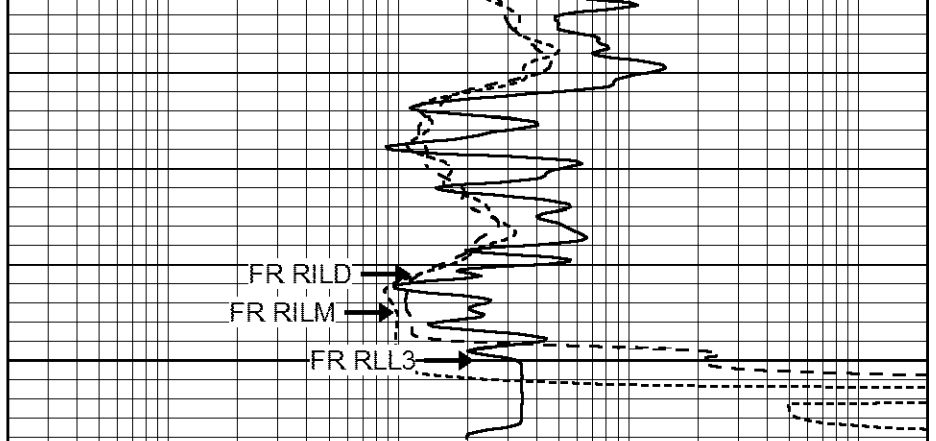
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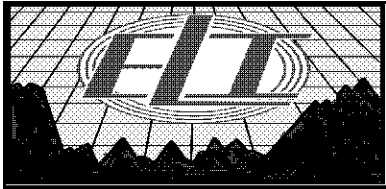


3600
LTD 3602

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

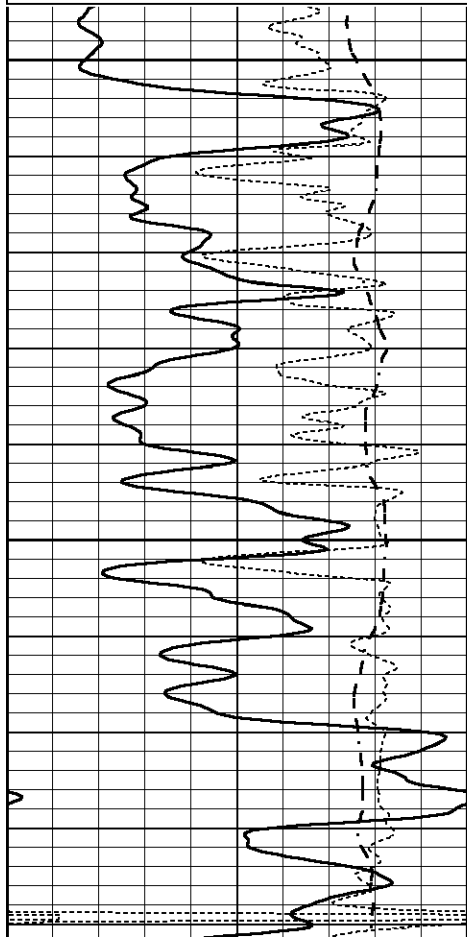


REPEAT SECTION

Database File 3430ddn8.db
 Dataset Pathname pass2.1
 Presentation Format _dil
 Dataset Creation Sat Dec 15 05:51:32 2018
 Charted by Depth in Feet scaled 1:240

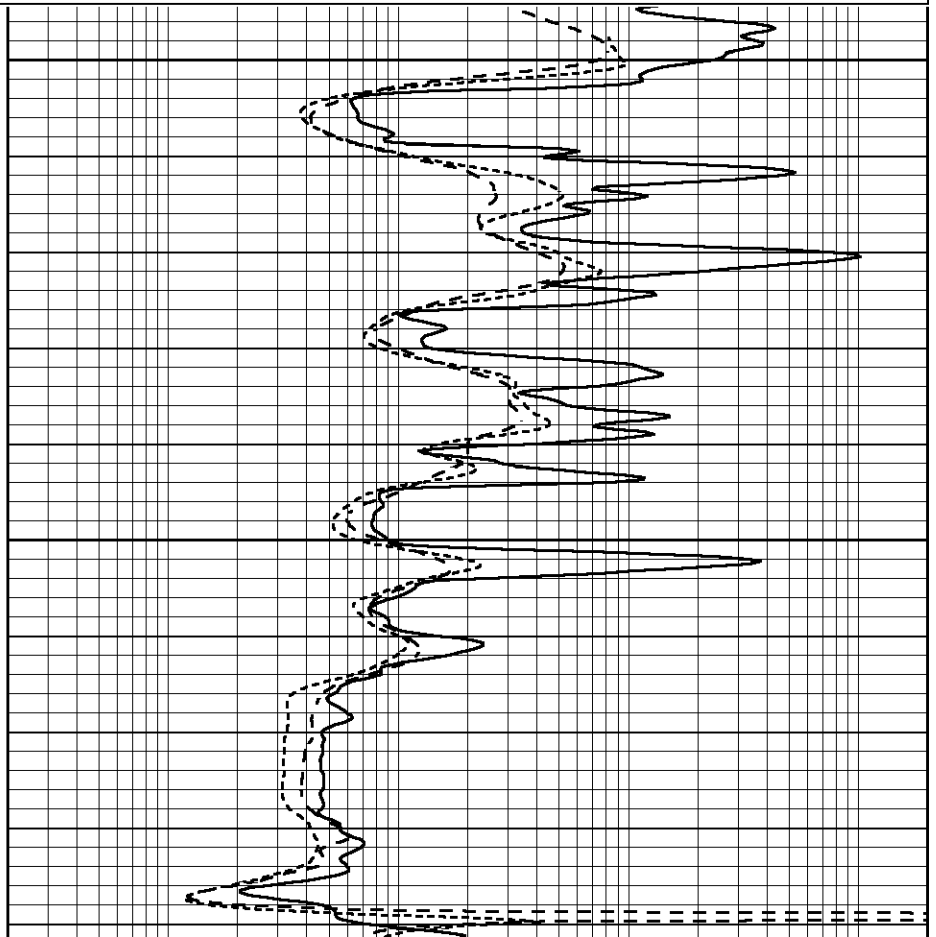
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

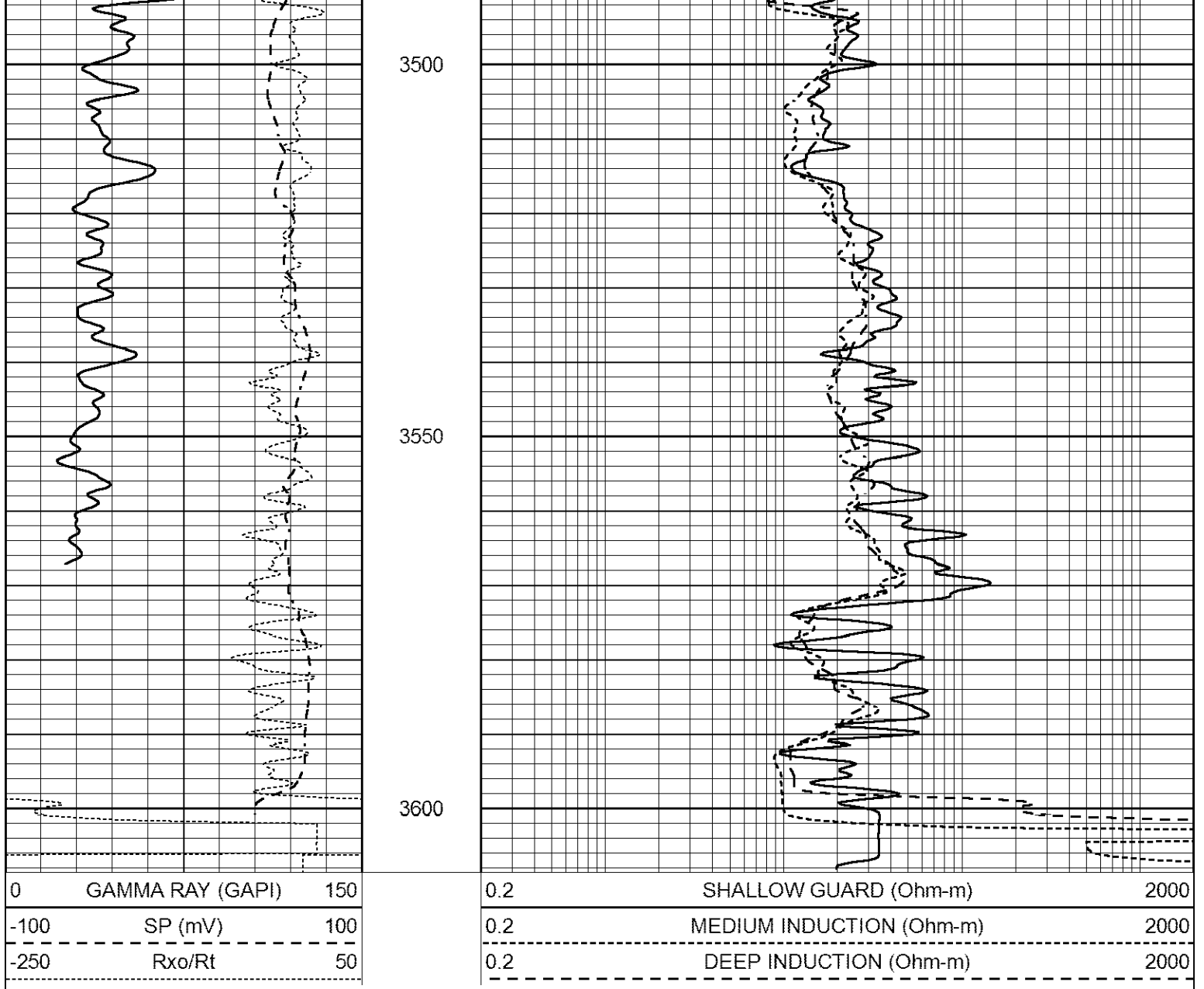
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



3400

3450





Calibration Report

Database File 3430ddn8.db
 Dataset Pathname pass3.1
 Dataset Creation Sat Dec 15 05:54:41 2018

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Mon May 22 14:23:32 2017
 Downhole Cal Performed: Thu Mar 12 09:29:20 2015
 After Survey Verification Performed: Thu Mar 12 09:29:20 2015

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop	V	Air	Loop	mmho/m	m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197

Internal:	Zero			Cal			Results	
	Zero	Cal	V	Zero	Cal	mmho/m	m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration			Readings		References		Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification			Readings		Targets		Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Compensated Neutron Calibration Report

Serial Number: 080621PMC
Tool Model: NABORS

PRE-SURVEY VERIFICATION

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

POST-SURVEY VERIFICATION

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

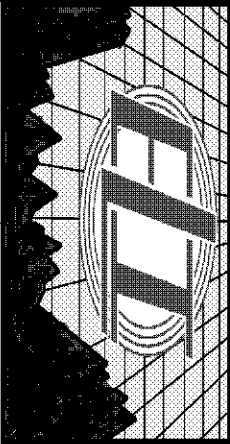
Gamma Ray Calibration Report

Serial Number: 7
Tool Model: Probe1
Performed: Wed Dec 05 01:26:33 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.4300 GAPI/cps



MICRO LOG

Company CHARTER ENERGY, INC.
 Well TRUMP #1
 Field
 County BARTON State KANSAS

Location: API #: 15-009-26242-0000
 2275' FSL & 1932' FEL
 SW - NE - NW - SE
 SEC 1 TWP 20S RGE 14W
 Permanent Datum GROUND LEVEL Elevation 1868
 Log Measured From KELLY BUSHING 5' A.G.L.
 Drilling Measured From KELLY BUSHING
 Other Services CDL/CNL DIL/SON
 Elevation K.B. 1873 D.F. 1871 G.L. 1868

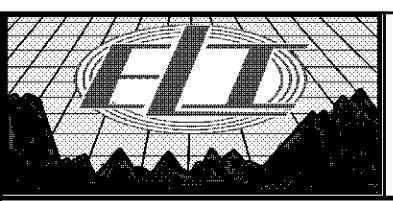
Date	12/15/18
Run Number	TWO
Depth Driller	3600
Depth Logger	3602
Bottom Logged Interval	3584
Top Log Interval	2900
Casing Driller	8 5/8" @ 8'10"
Casing Logger	808'
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	8.7/56
PH / Fluid Loss	9.0/7.6
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.45 @ 55F
Rmt @ Meas. Temp	.33 @ 55F
Rmc @ Meas. Temp	.54 @ 55F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.22 @ 112F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	112F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	JIM MUSGROVE

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Comments

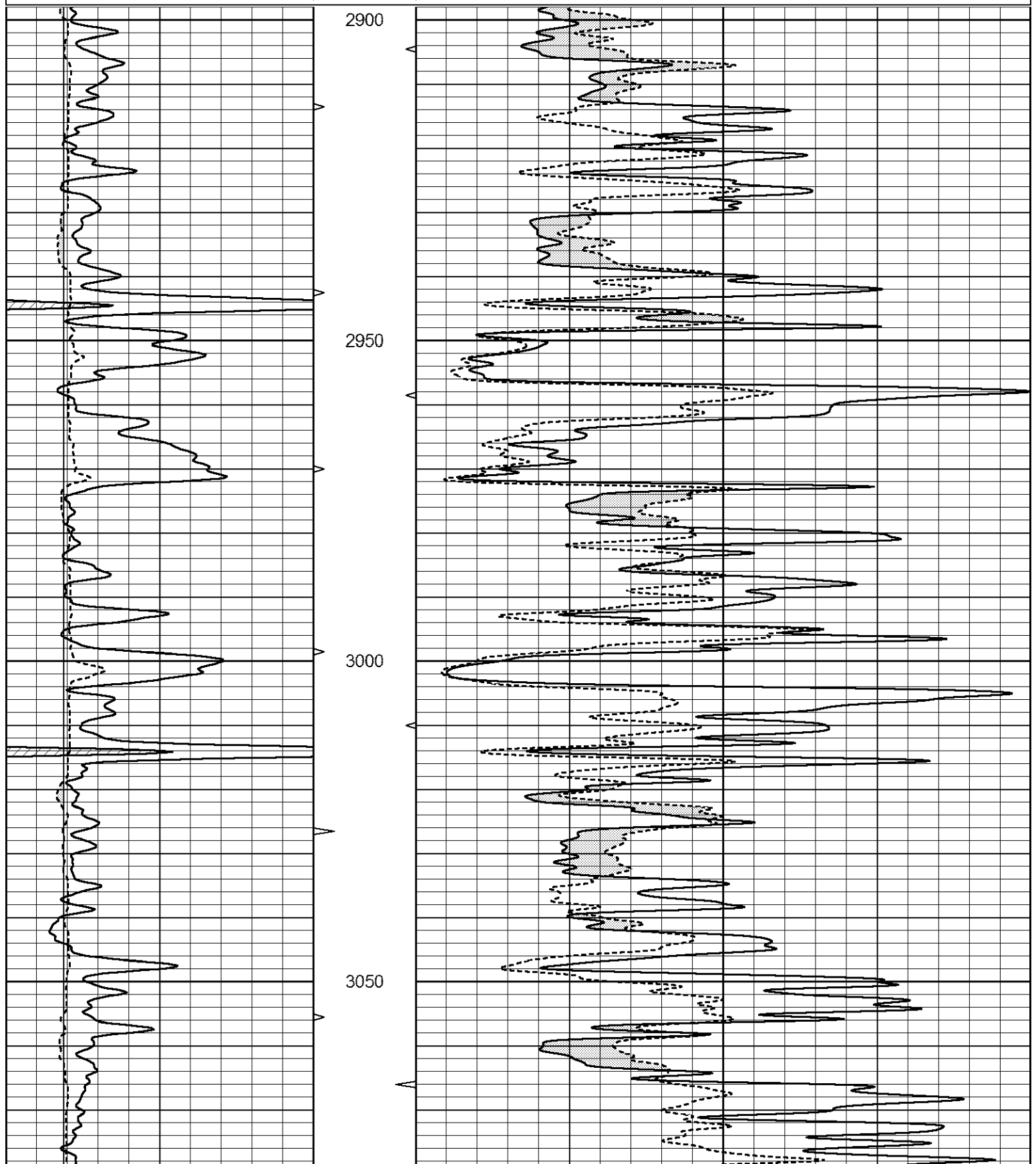
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
 DIRECTIONS
 GREAT BEND, KS. - 1 MILE SOUTHWEST ON HWY 156 TO RD. 30 - SOUTH PAST
 FENCE - EAST INTO

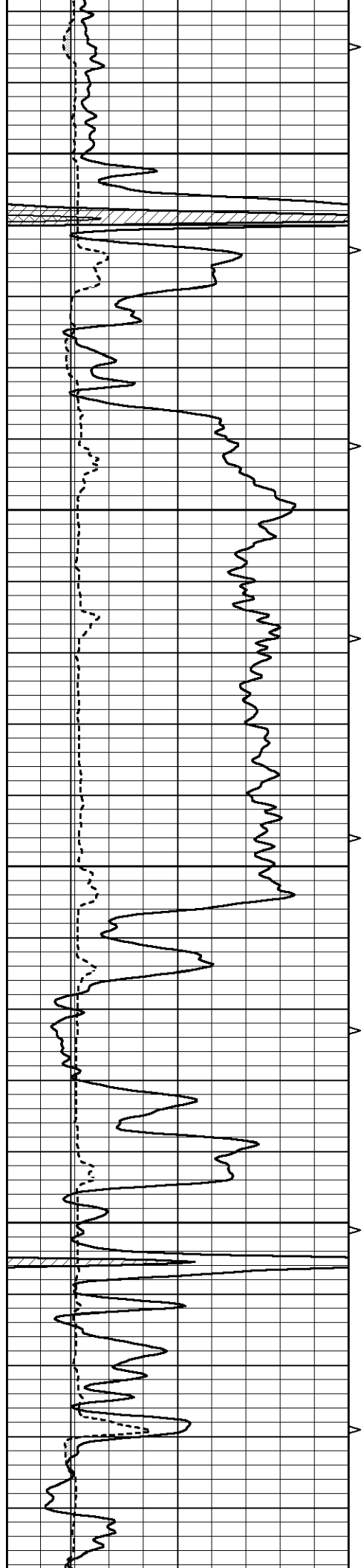


MAIN SECTION

Database File 3430ddn8.db
 Dataset Pathname pass6.1
 Presentation Format _micro
 Dataset Creation Sat Dec 15 07:32:28 2018
 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		



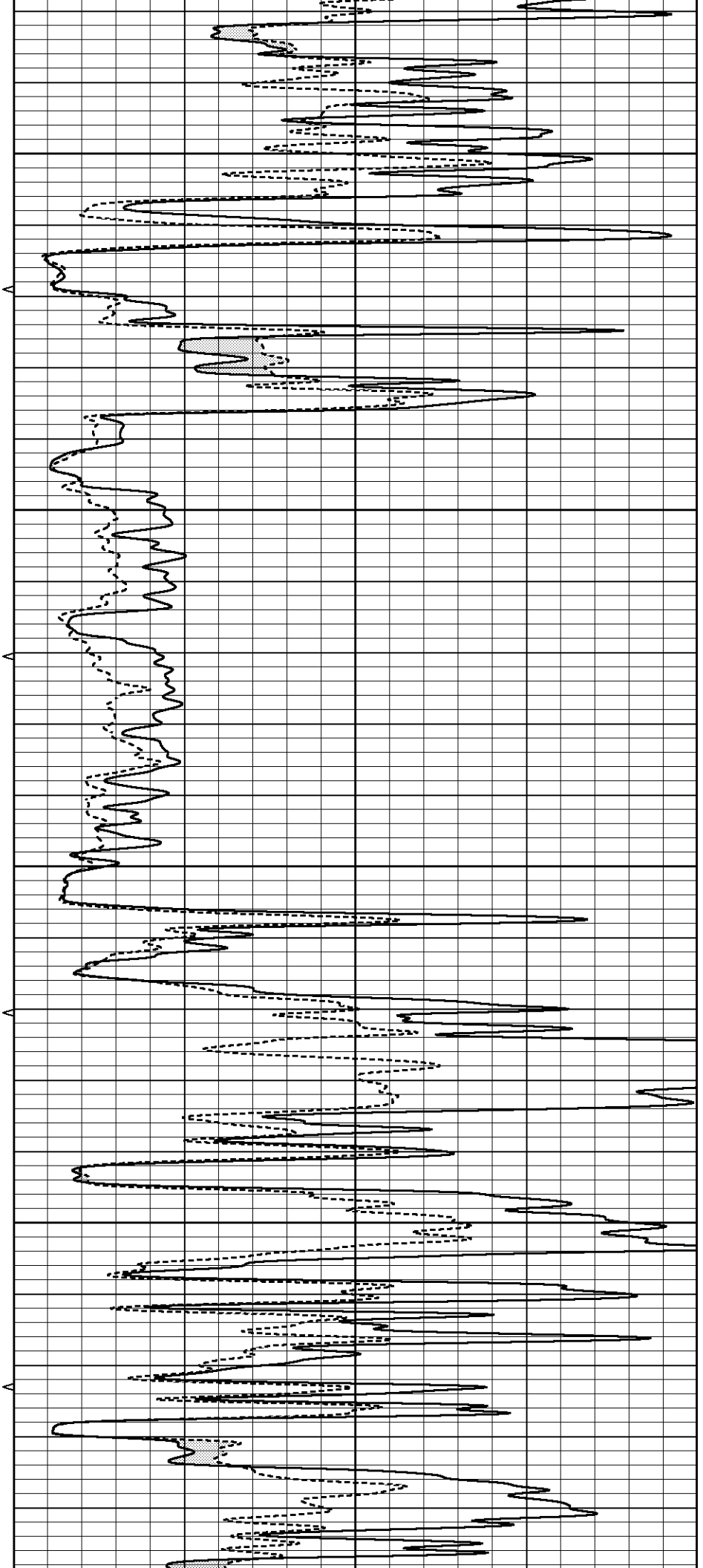


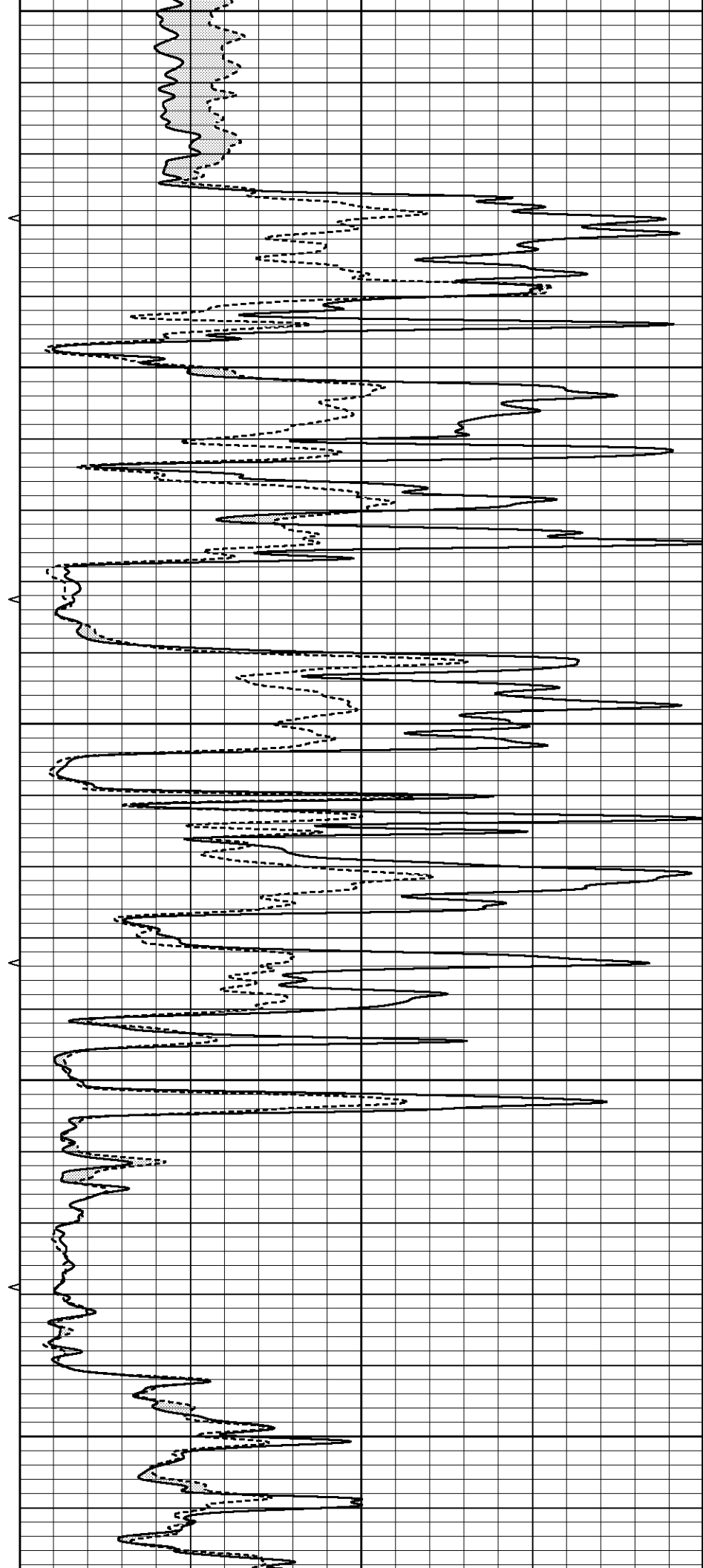
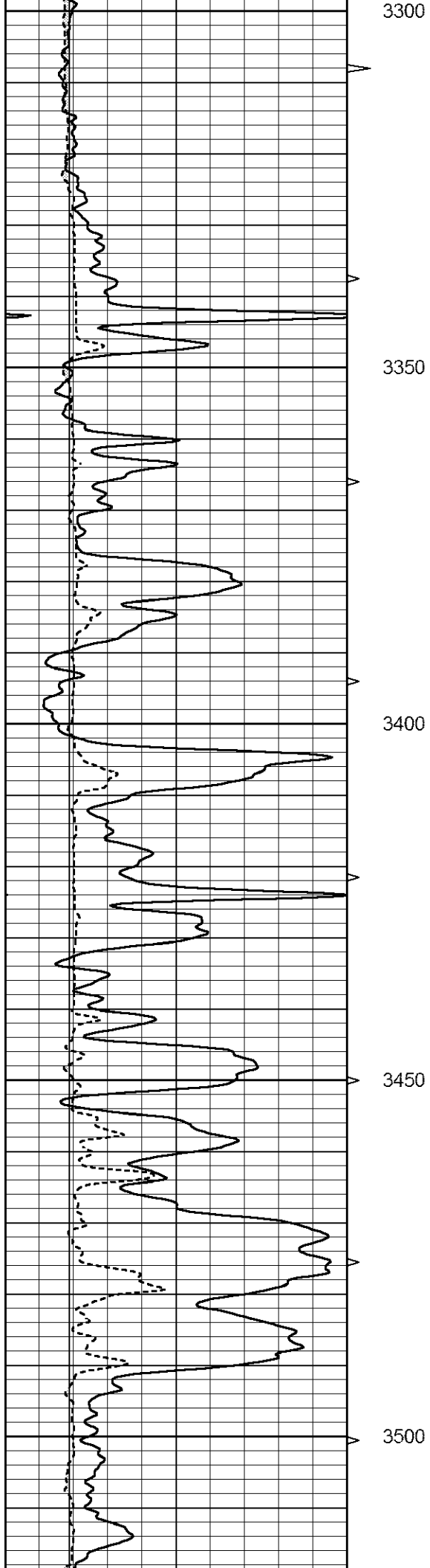
3100

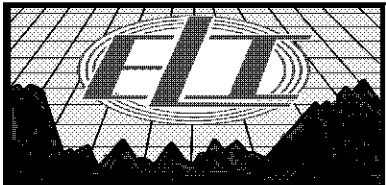
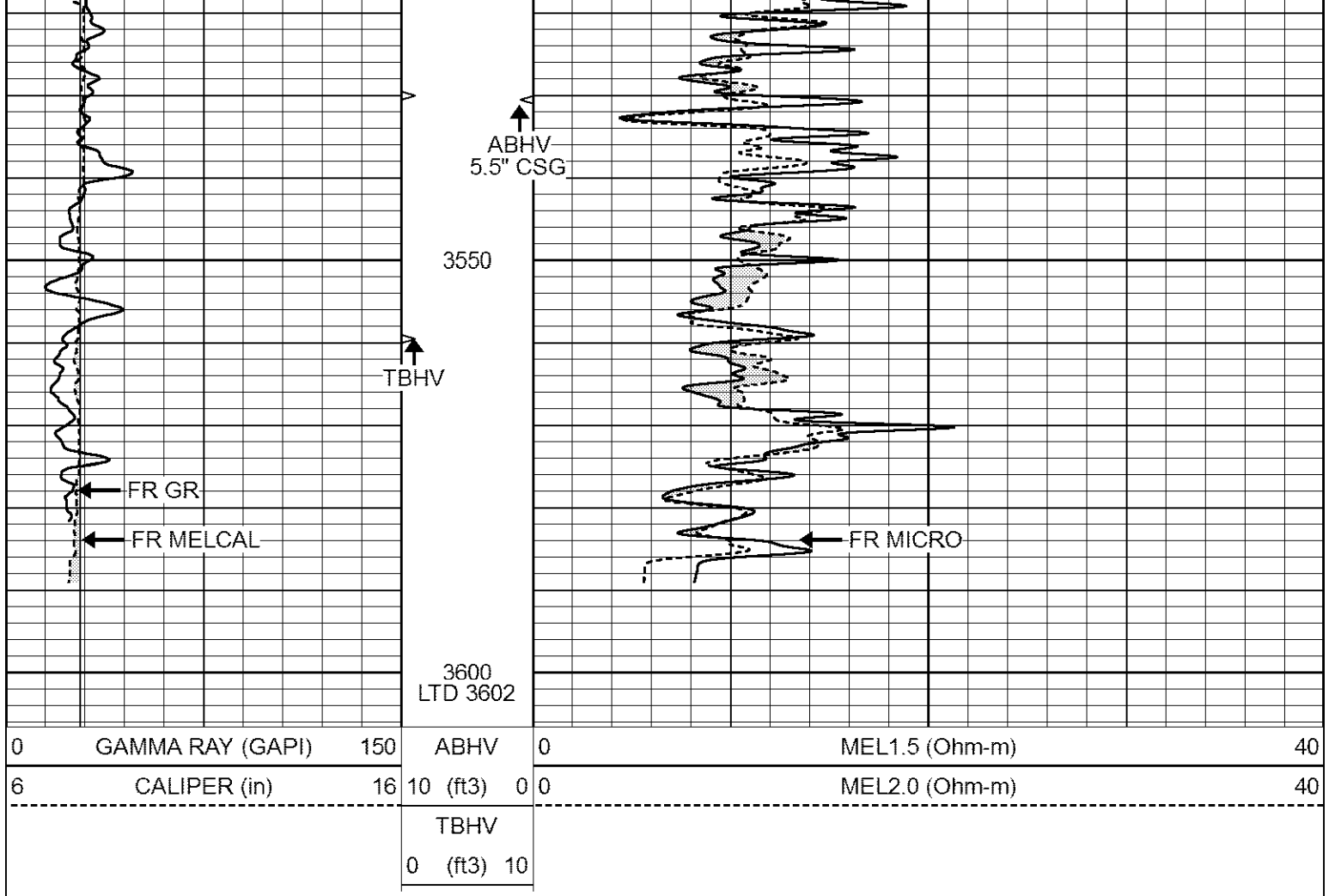
3150

3200

3250



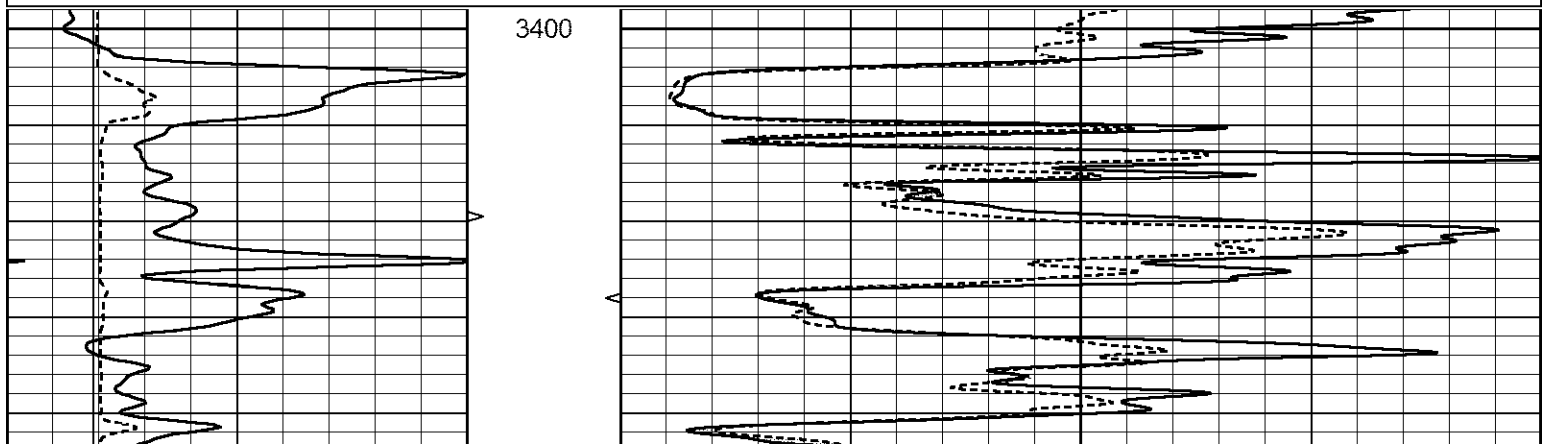


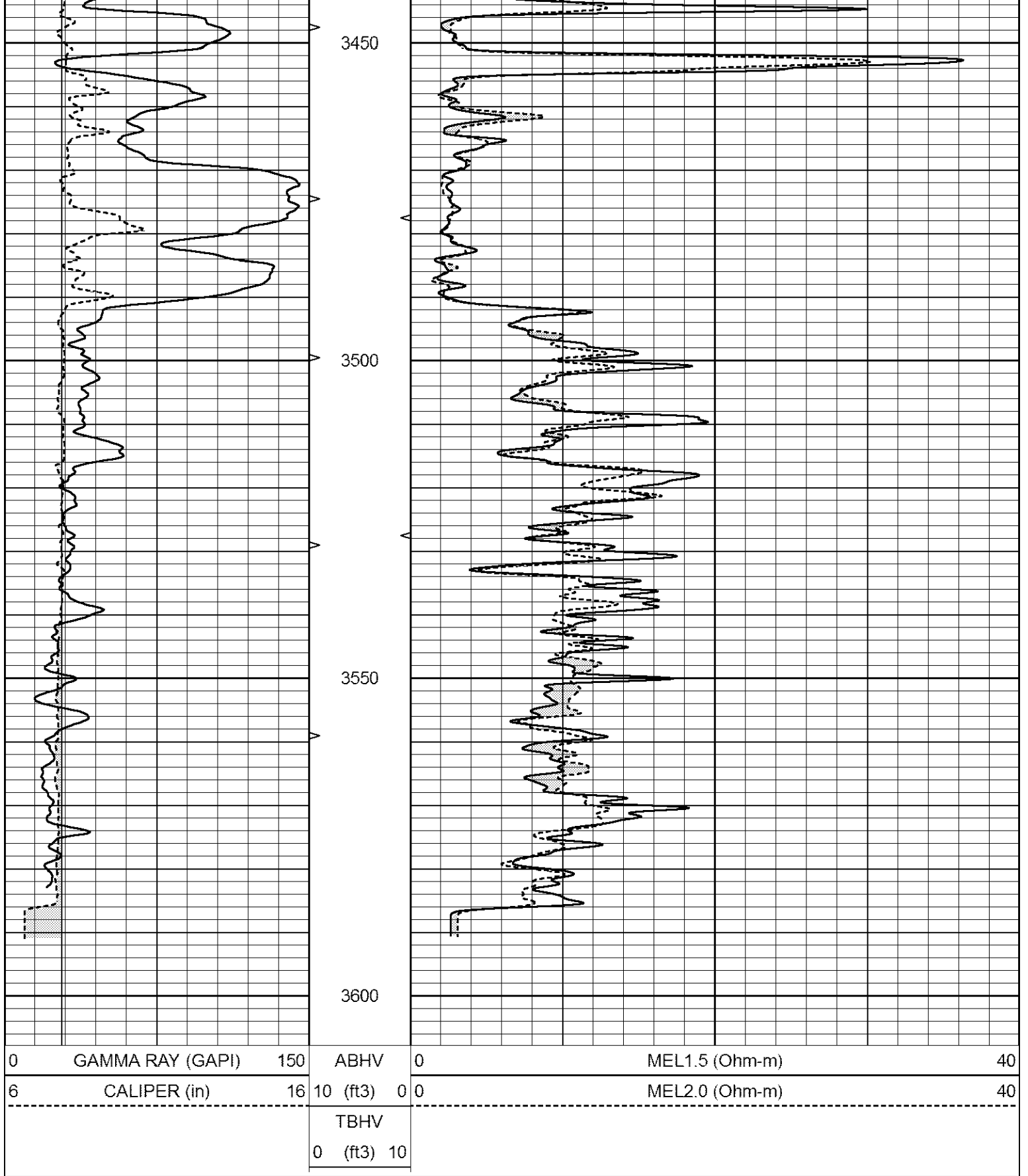


REPEAT SECTION

Database File 3430ddn8.db
 Dataset Pathname pass5.1
 Presentation Format _micro
 Dataset Creation Sat Dec 15 07:23:02 2018
 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			





Calibration Report

Database File 3430ddn8.db
 Dataset Pathname pass5.1
 Dataset Creation Sat Dec 15 07:23:02 2018

MICRO_USR Calibration Report

Serial Number: 070911
 Tool Model: Probel

Tool Model:
Performed:

ProbeL
Thu Dec 13 22:45:34 2018

Caliper Calibration:

Gain=3.755 Offset=2.950

References
Readings

Low Cal High Cal
8.000 14.000
1.451 3.049

1.5" Calibration:

Gain=37.000 Offset=0.000

References
Readings

Low Cal High Cal
0.000 20.000
0.004 0.843

2" Calibration:

Gain=75.000 Offset=-1.650

References
Readings

Low Cal High Cal
0.000 20.000
0.021 0.810

Microlog Calibration Report

Serial-Model:
Performed:

070911-ProbeL
Sat Apr 11 01:13:01 2015

Readings

References

Results

Zero

Cal

Zero

Cal

m

b

Normal
Inverse
Caliper

0.0002 0.4836
0.0018 0.6297
0.0000 1.0000

V
V
V

0.0000 10.0000
0.0000 10.0000
0.0000 1.0000

Ohm-m
Ohm-m
in

20.6908 -0.0051
15.9263 -0.0282
1.0000 0.0000

Gamma Ray Calibration Report

Serial Number:
Tool Model:
Performed:

7
Probe1
Wed Dec 05 01:26:33 2018

Calibrator Value:

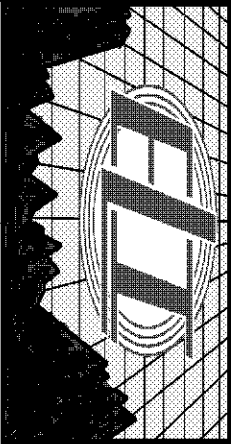
1.0 GAPI

Background Reading:
Calibrator Reading:

0.0 cps
1.0 cps

Sensitivity:

0.2400 GAPI/cps



**COMPENSATED
DENSITY/NEUTRON
LOG**

Company **CHARTER ENERGY, INC.**
 Well **TRUMP #1**
 Field
 County **BARTON** State **KANSAS**

Location: **API # : 15-009-26242-0000**
2275' FSL & 1932' FEL
SW - NE - NW - SE
 SEC 1 TWP 20S RGE 14W
 Permanent Datum **GROUND LEVEL Elevation : 1868**
 Log Measured From **KELLY BUSHING 5' A.G.L**
 Drilling Measured From **KELLY BUSHING**

Other Services
**DILMEL
 SONIC**
 Elevation
 K.B. 1873
 D.F. 1871
 G.L. 1868

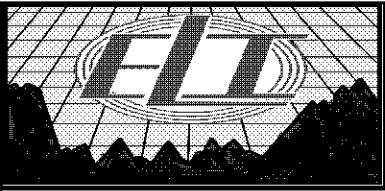
Date	12/15/18
Run Number	ONE
Depth Driller	3600
Depth Logger	3602
Bottom Logged Interval	3578
Top Log Interval	2900
Casing Driller	8 5/8" @ 8'10"
Casing Logger	808'
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	8.7/56
PH / Fluid Loss	9.0/7.6
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.45 @ 55F
Rmt @ Meas. Temp	.33 @ 55F
Rmc @ Meas. Temp	.54 @ 55F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.22 @ 112F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	112F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	JIM MUSGROVE

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

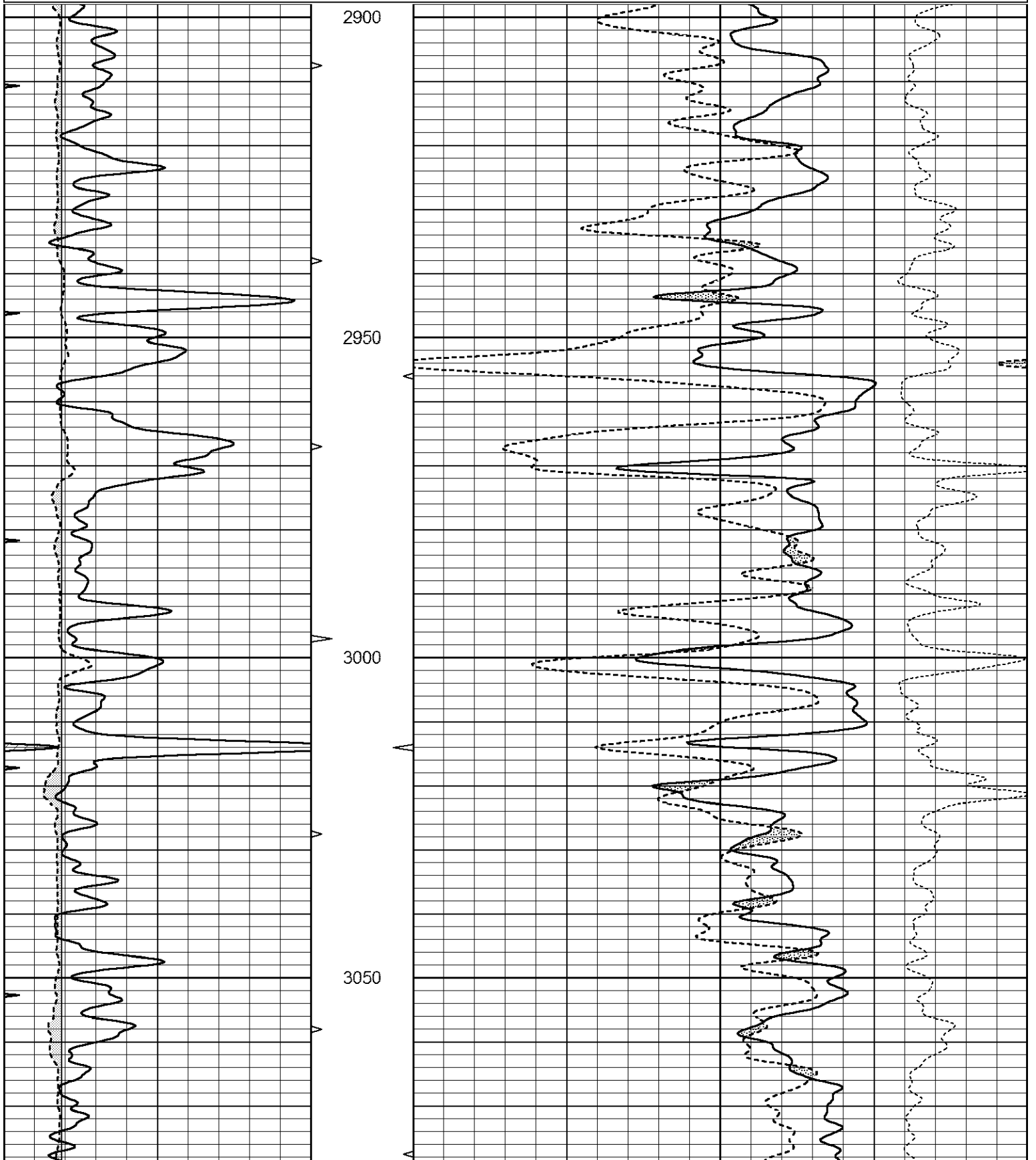
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
 DIRECTIONS
 GREAT BEND, KS. - 1 MILE SOUTHWEST ON HWY 156 TO RD. 30 - SOUTH PAST
 FENCE - EAST INTO

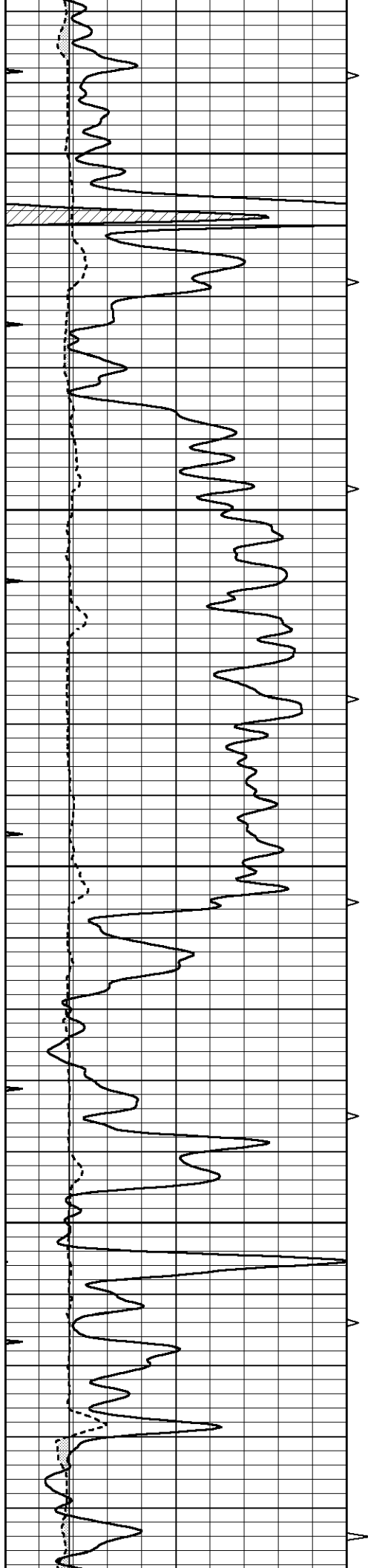


MAIN SECTION

Database File 3430ddn8.db
 Dataset Pathname pass3.1
 Presentation Format _den_neu
 Dataset Creation Sat Dec 15 05:54:41 2018
 Charted by Depth in Feet scaled 1:240

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



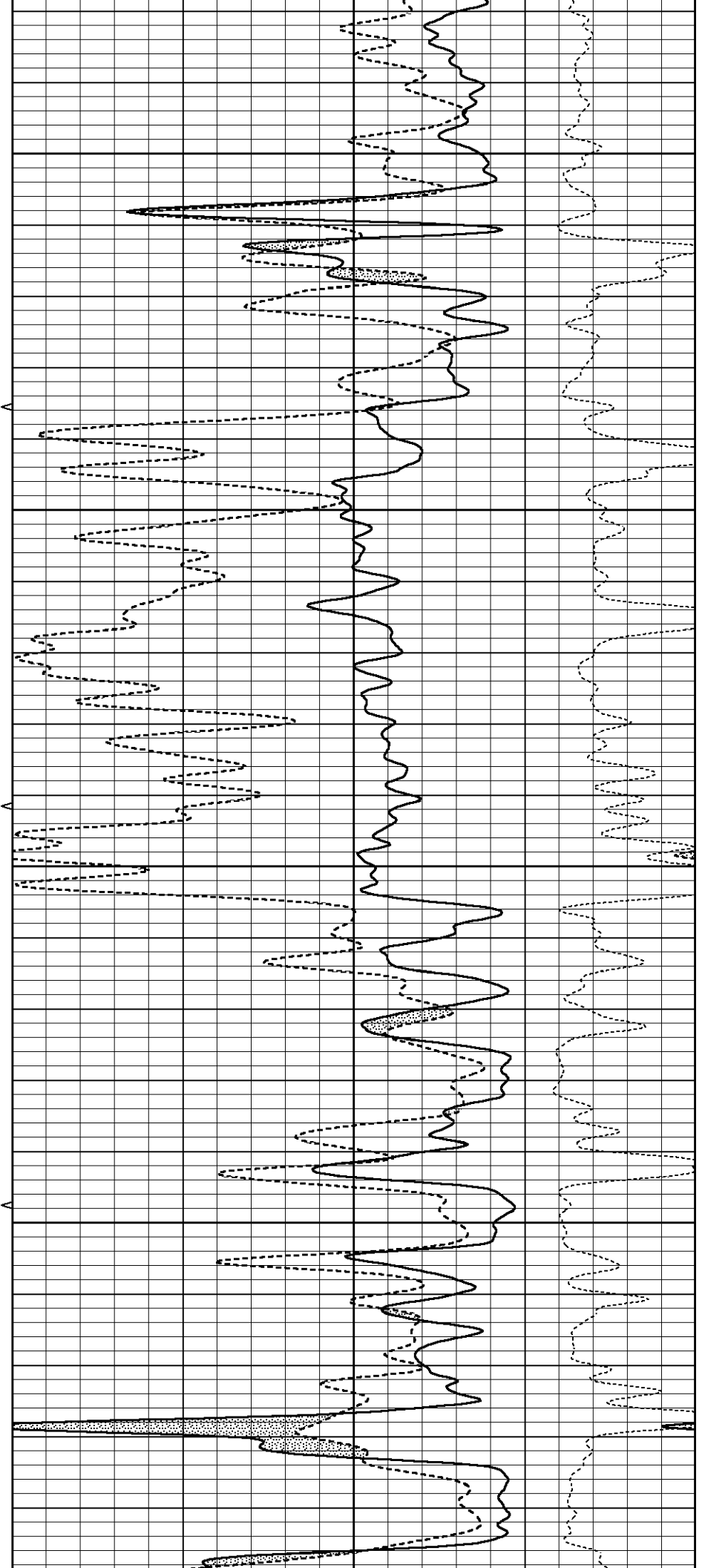


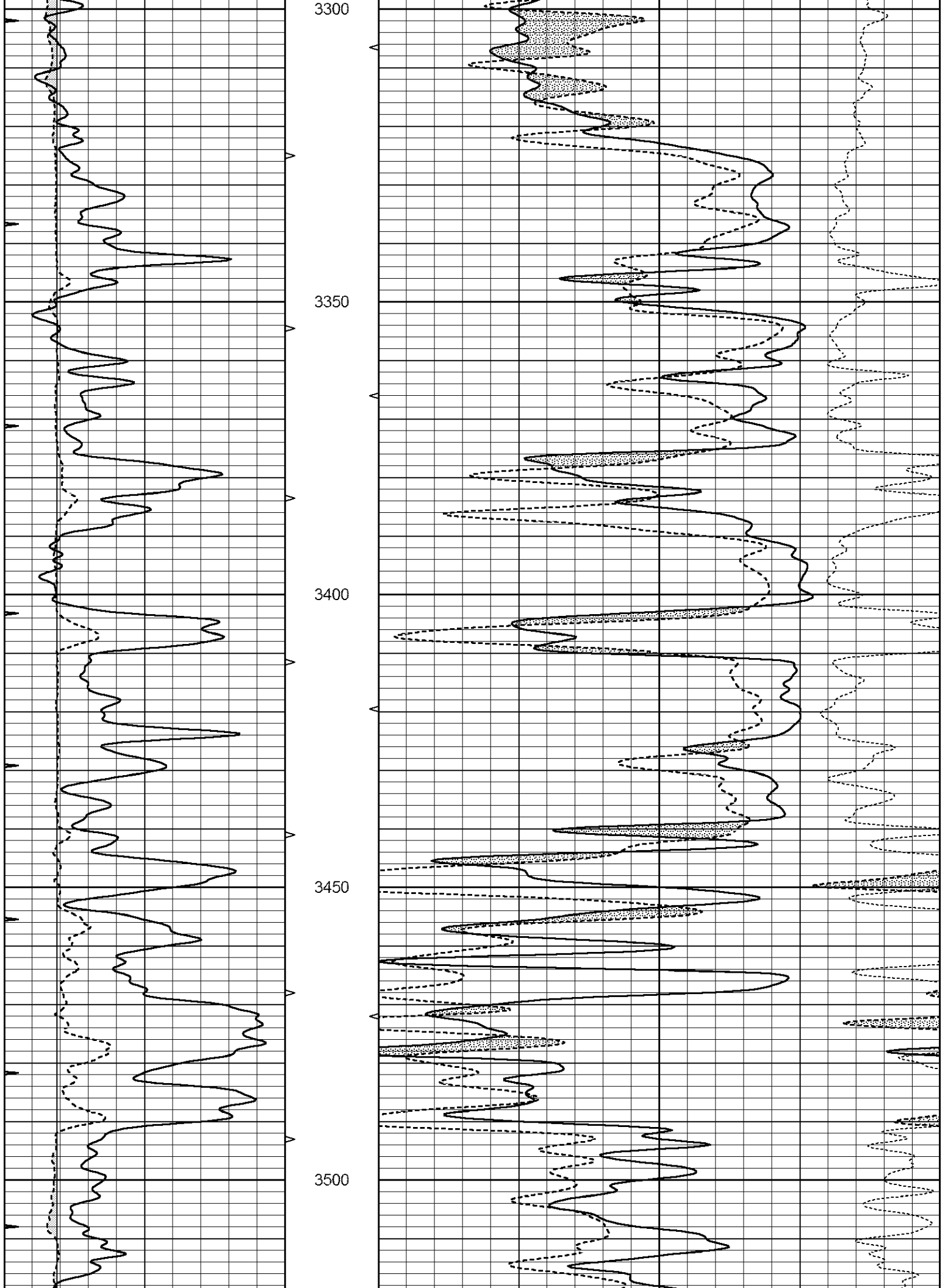
3100

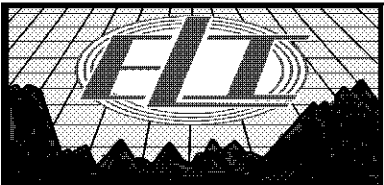
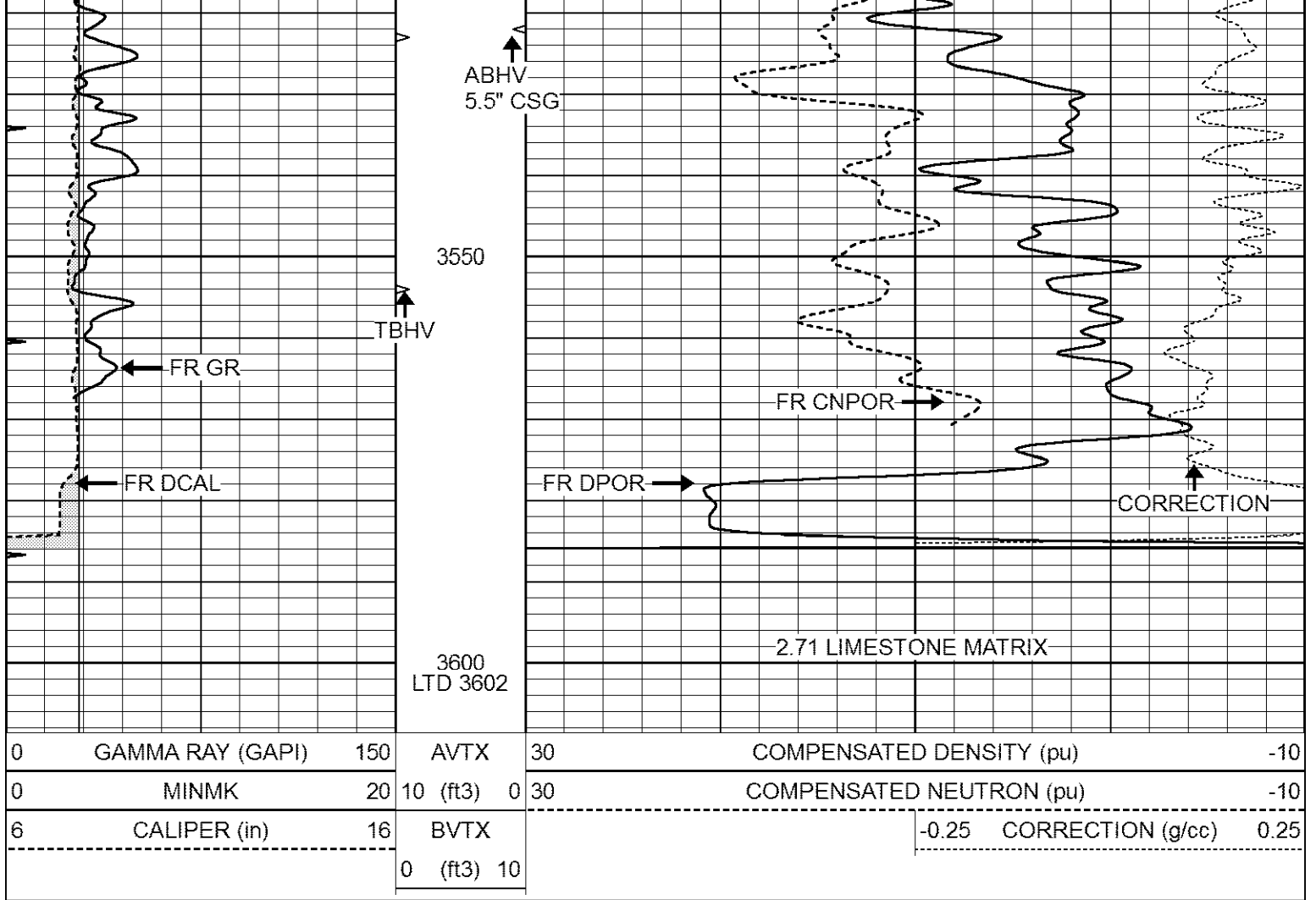
3150

3200

3250



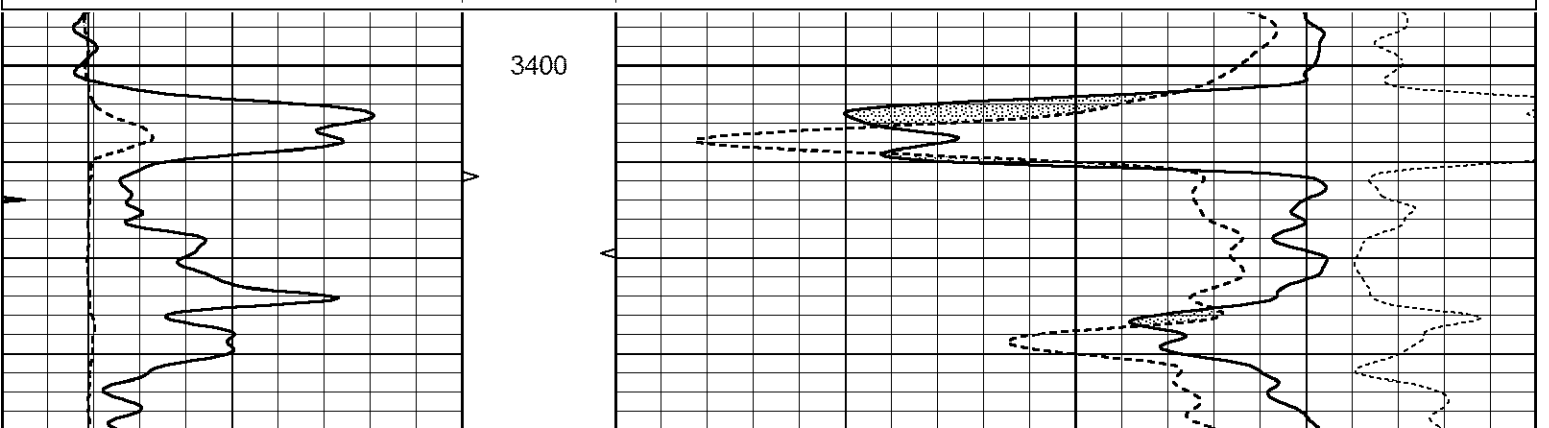


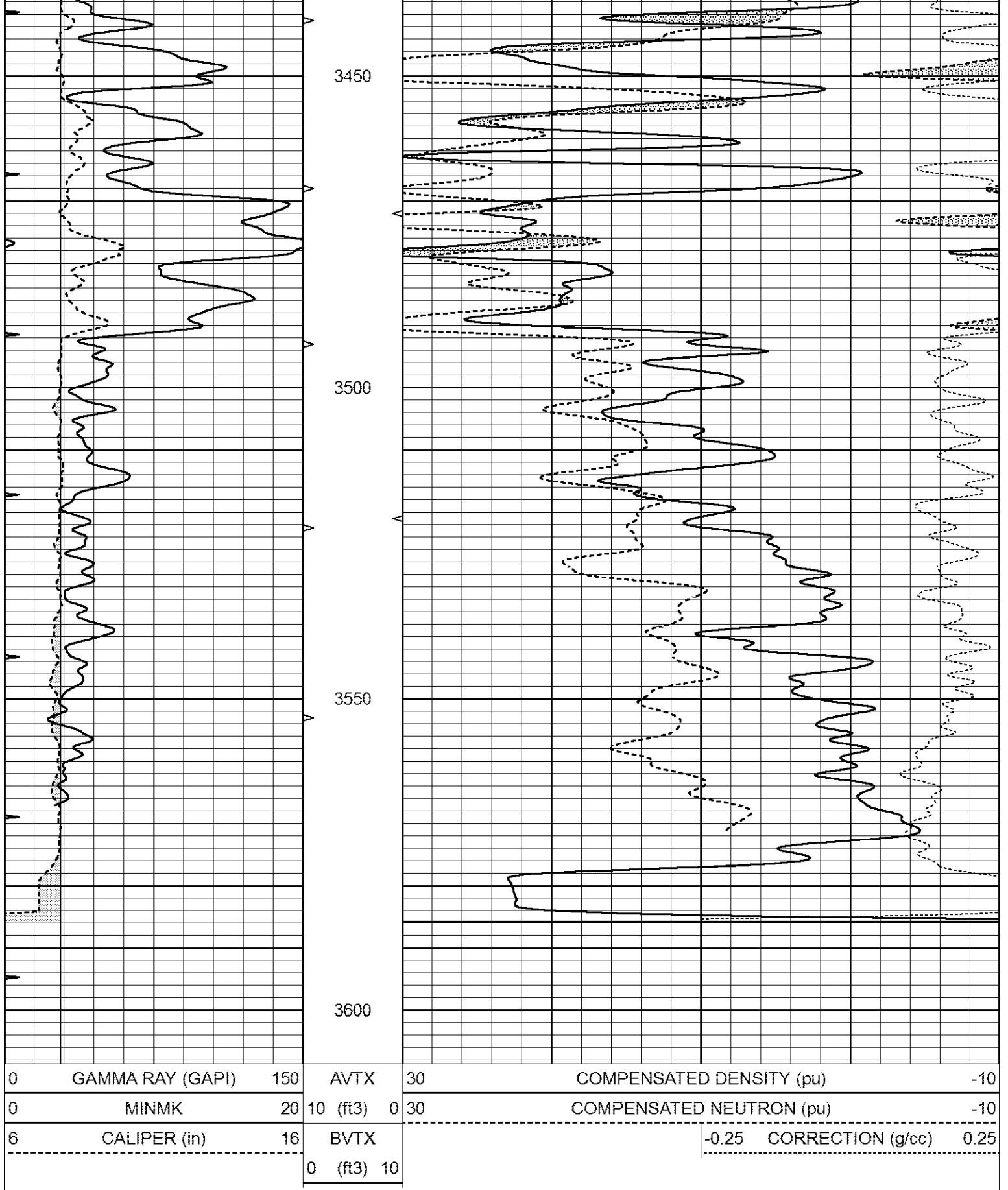


REPEAT SECTION

Database File 3430ddn8.db
 Dataset Pathname pass2.1
 Presentation Format _den_neu
 Dataset Creation Sat Dec 15 05:51:32 2018
 Charted by Depth in Feet scaled 1:240

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





Calibration Report

Database File 3430ddn8.db
 Dataset Pathname pass3.1
 Dataset Creation Sat Dec 15 05:54:41 2018

Serial-Model:
 Surface Cal Performed:
 Downhole Cal Performed:
 After Survey Verification Performed:

FW1410-55-Probe
 Mon May 22 14:23:32 2017
 Thu Mar 12 09:29:20 2015
 Thu Mar 12 09:29:20 2015

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop	V	Air	Loop	mmho/m	m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Compensated Neutron Calibration Report

Serial Number: 080621PMC
 Tool Model: NABORS

PRE-SURVEY VERIFICATION

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

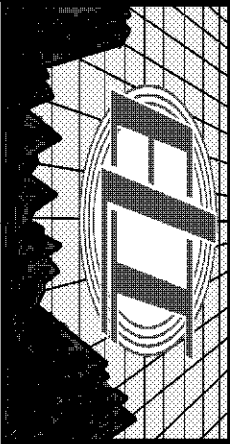
POST-SURVEY VERIFICATION

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

Gamma Ray Calibration Report

Serial Number: 7
 Tool Model: Probe1
 Performed: Wed Dec 05 01:26:33 2018
 Calibrator Value: 1.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4300	GAPI/cps



SONIC LOG

Company CHARTER ENERGY, INC.

Well TRUMP #1

Field

County BARTON

State KANSAS

Location: API #: 15-009-26242-0000

2275' FSL & 1932' FEL
SW - NE - NW - SE

SEC 1 TWP 20S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1868
Log Measured From KELLY BUSHING 5' A.G.L
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
DIL/MEL

Elevation

K.B. 1873
D.F. 1871
G.L. 1868

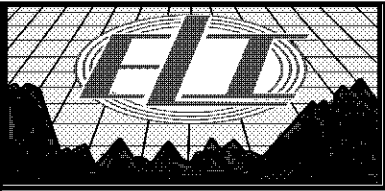
Date	12/15/18
Run Number	TWO
Depth Driller	3600
Depth Logger	3602
Bottom Logged Interval	3592
Top Log Interval	800
Casing Driller	8 5/8" @ 8'10"
Casing Logger	808'
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	8.7/56
PH / Fluid Loss	9.0/7.6
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.45 @ 55F
Rmt @ Meas. Temp	.33 @ 55F
Rmc @ Meas. Temp	.54 @ 55F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.22 @ 112F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	112F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	JIM MUSGROVE

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Comments

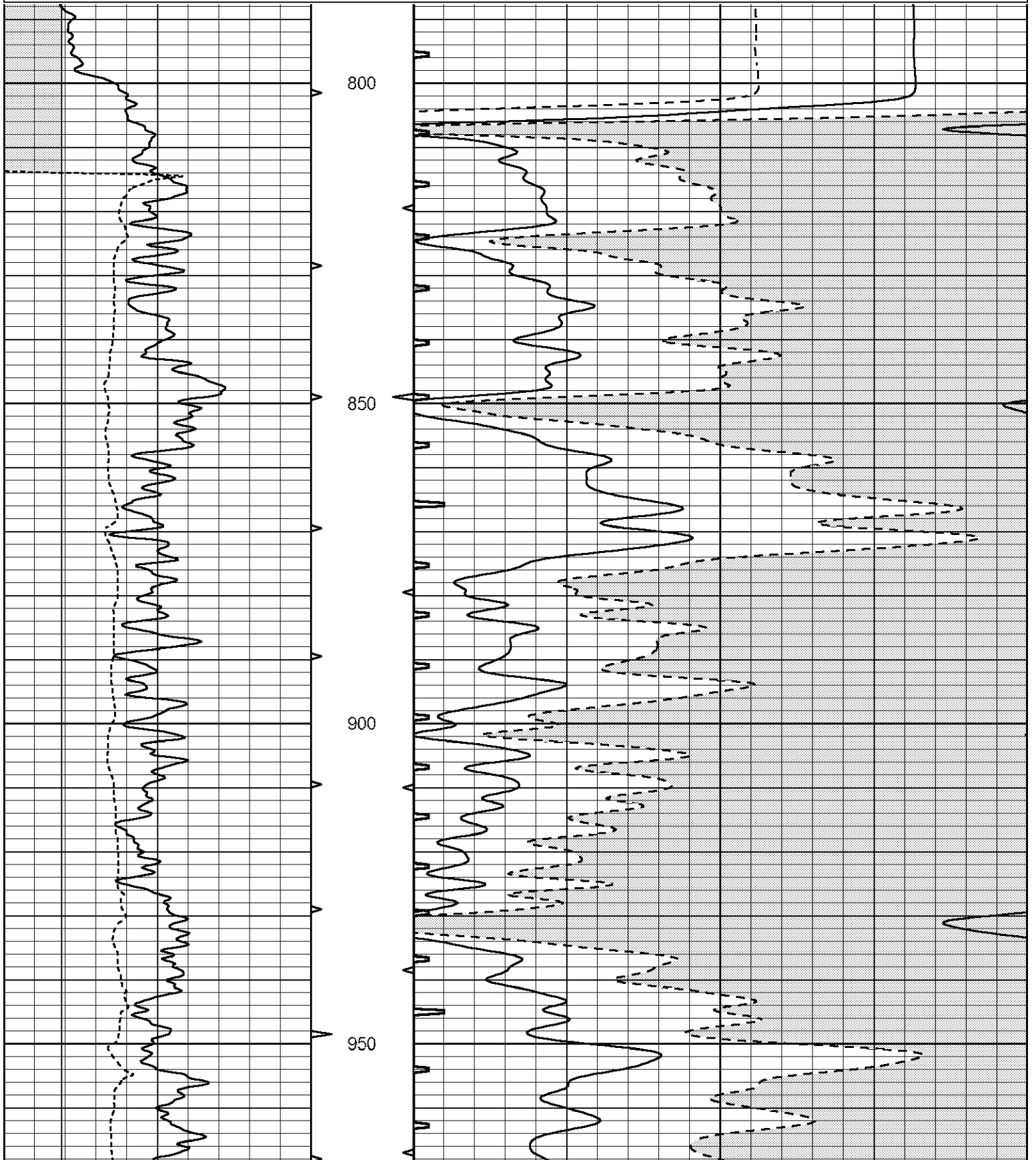
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
GREAT BEND, KS. - 1 MILE SOUTHWEST ON HWY 156 TO RD. 30 - SOUTH PAST
FENCE - EAST INTO

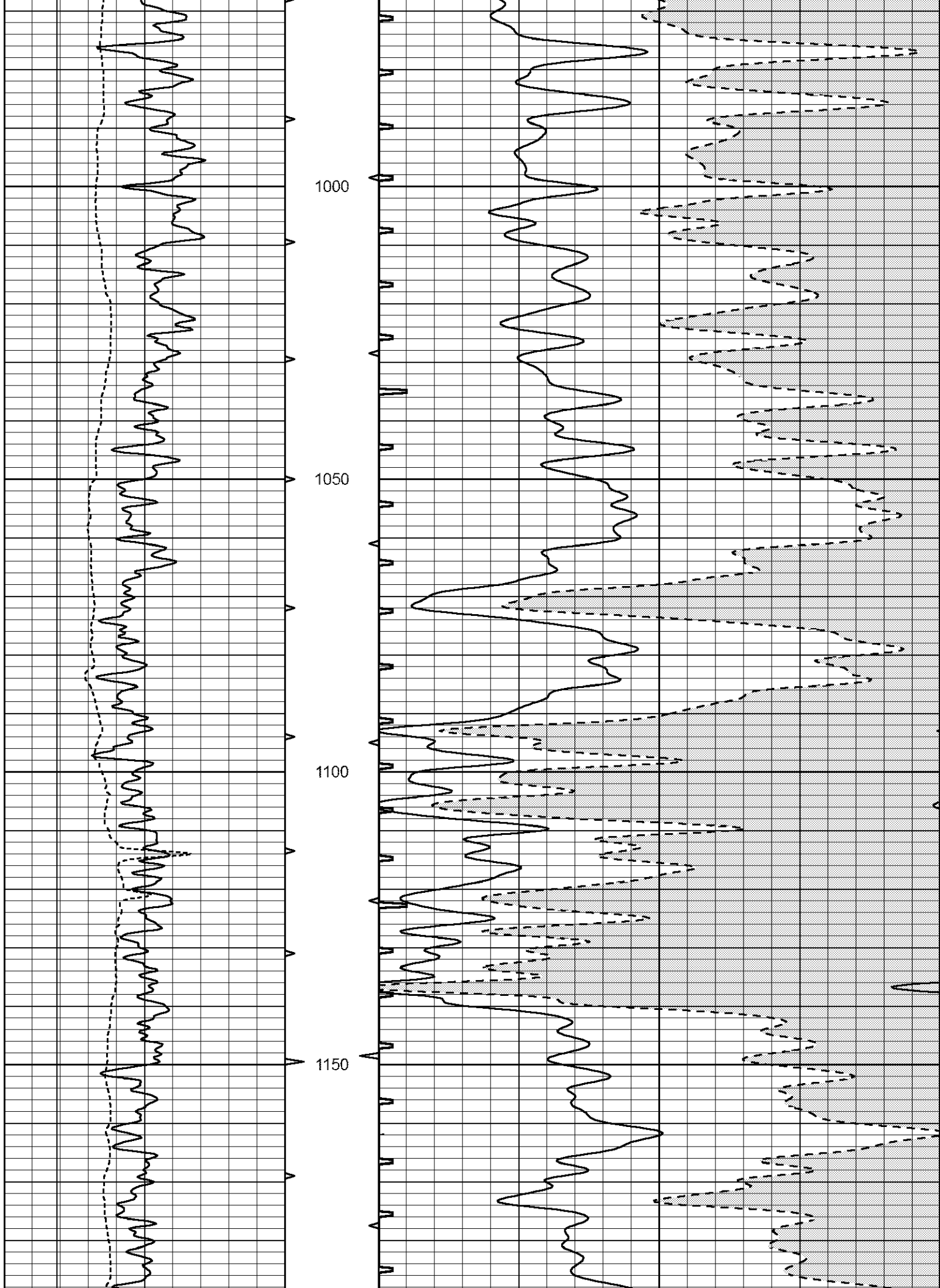


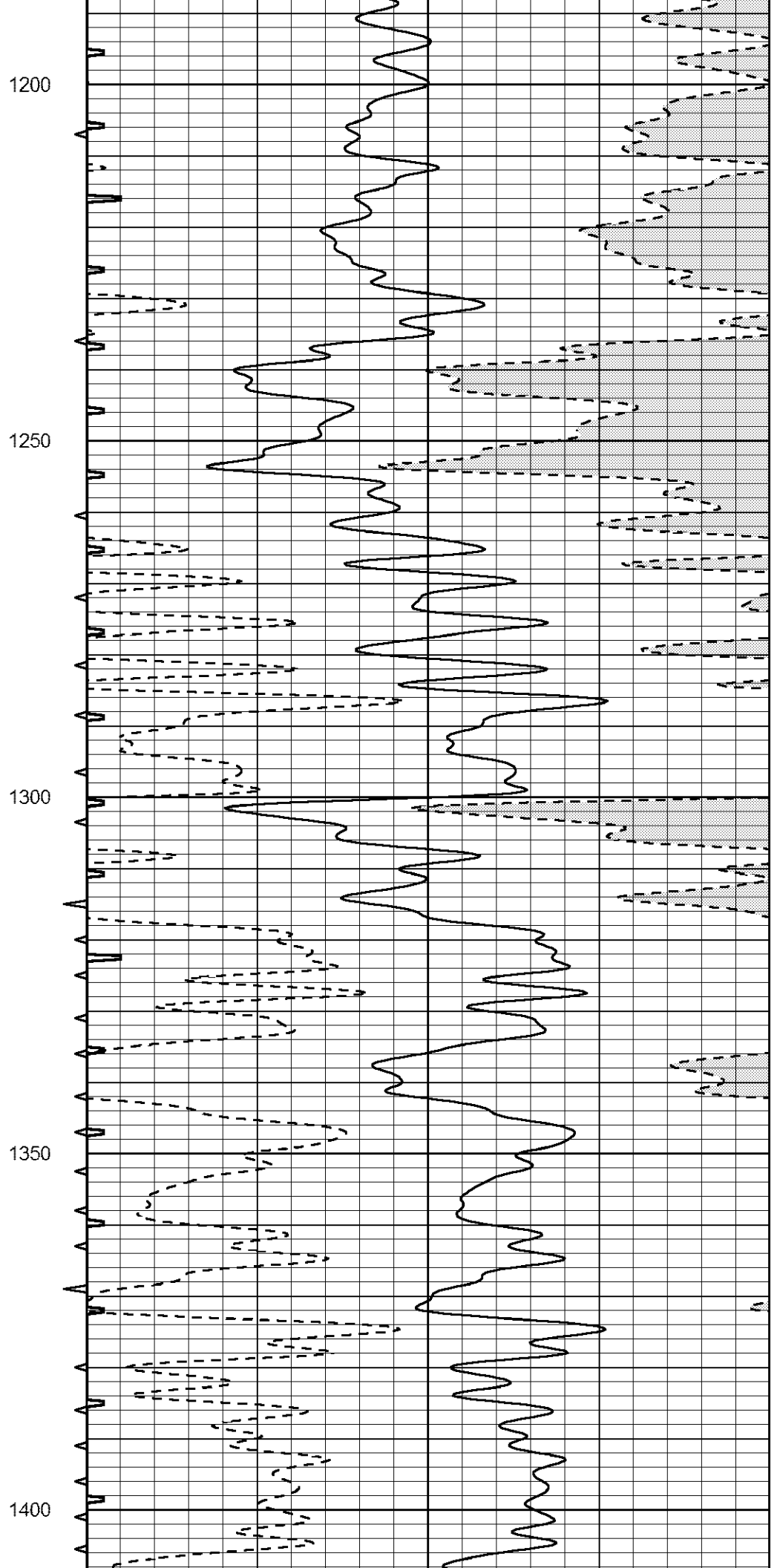
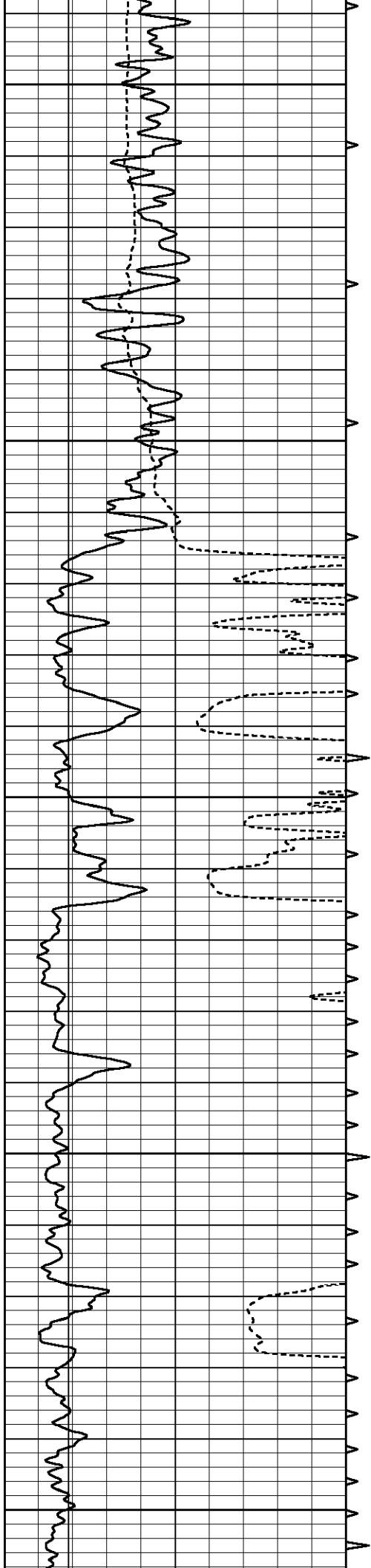
MAIN SECTION

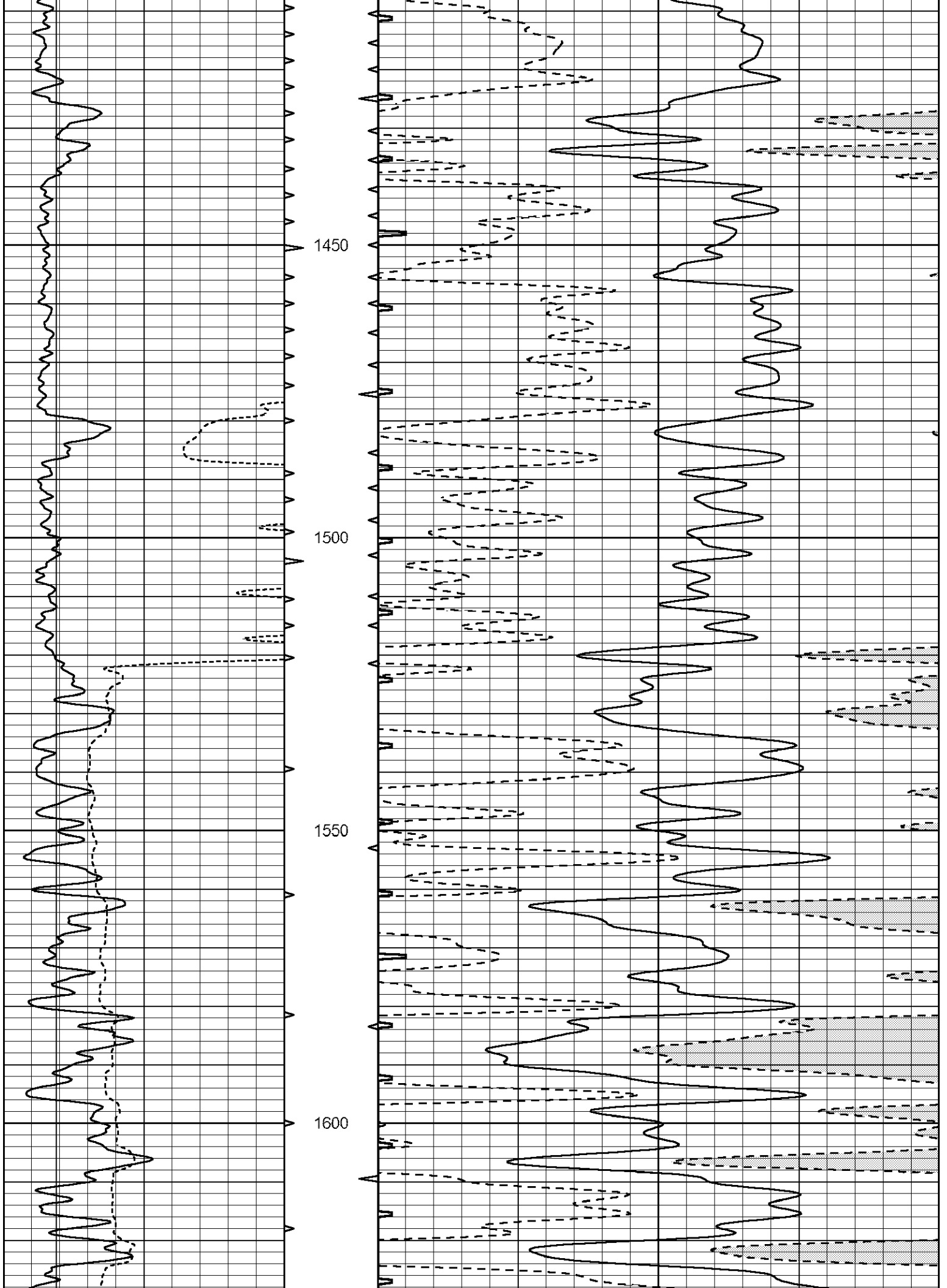
Database File 3430ddn8.db
 Dataset Pathname pass6
 Presentation Format _slt
 Dataset Creation Sat Dec 15 07:11:33 2018
 Charted by Depth in Feet scaled 1:240

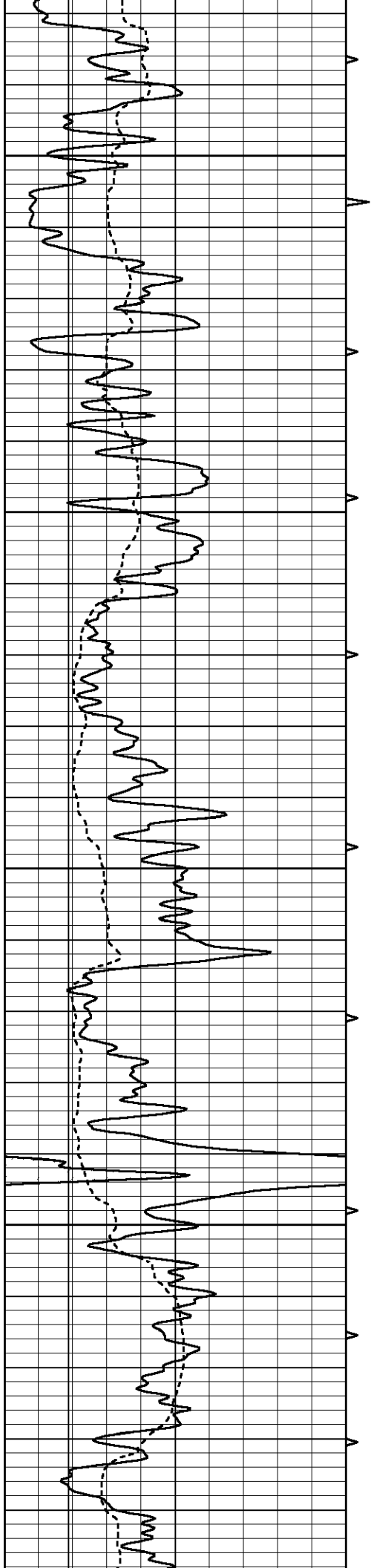
0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40	
6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)	-10
			0	ITT (msec)	20		
			0 (ft3)	10			









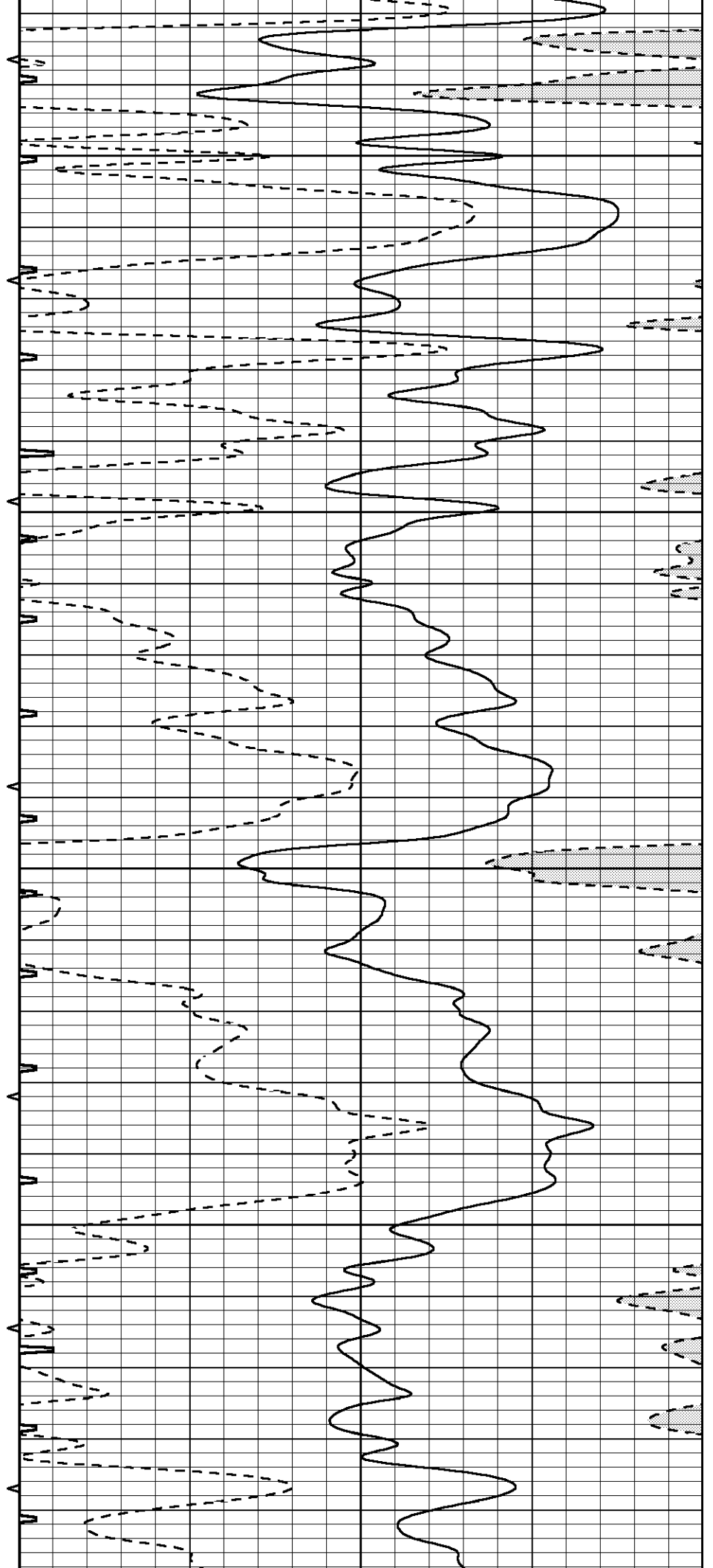


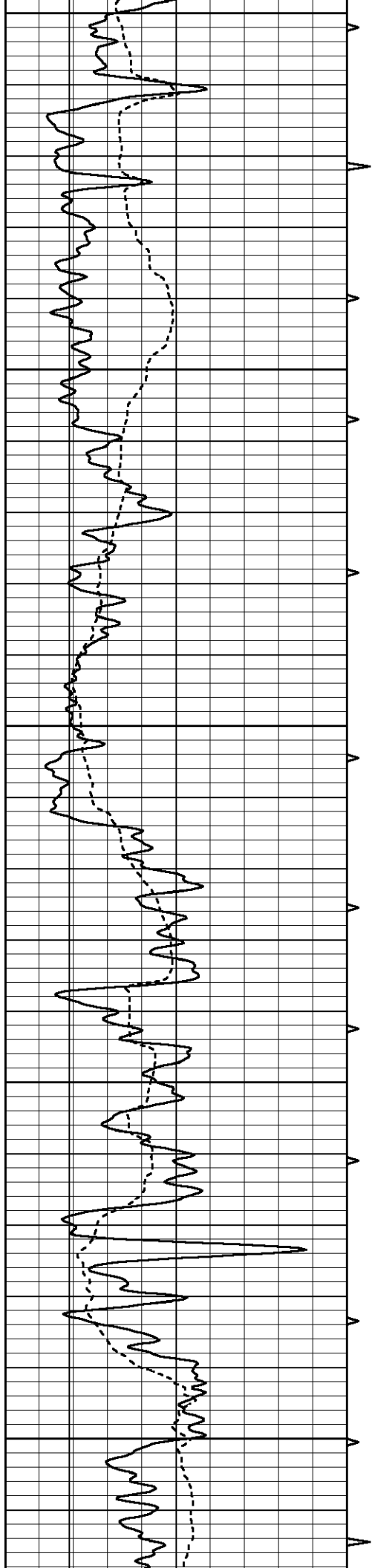
1650

1700

1750

1800





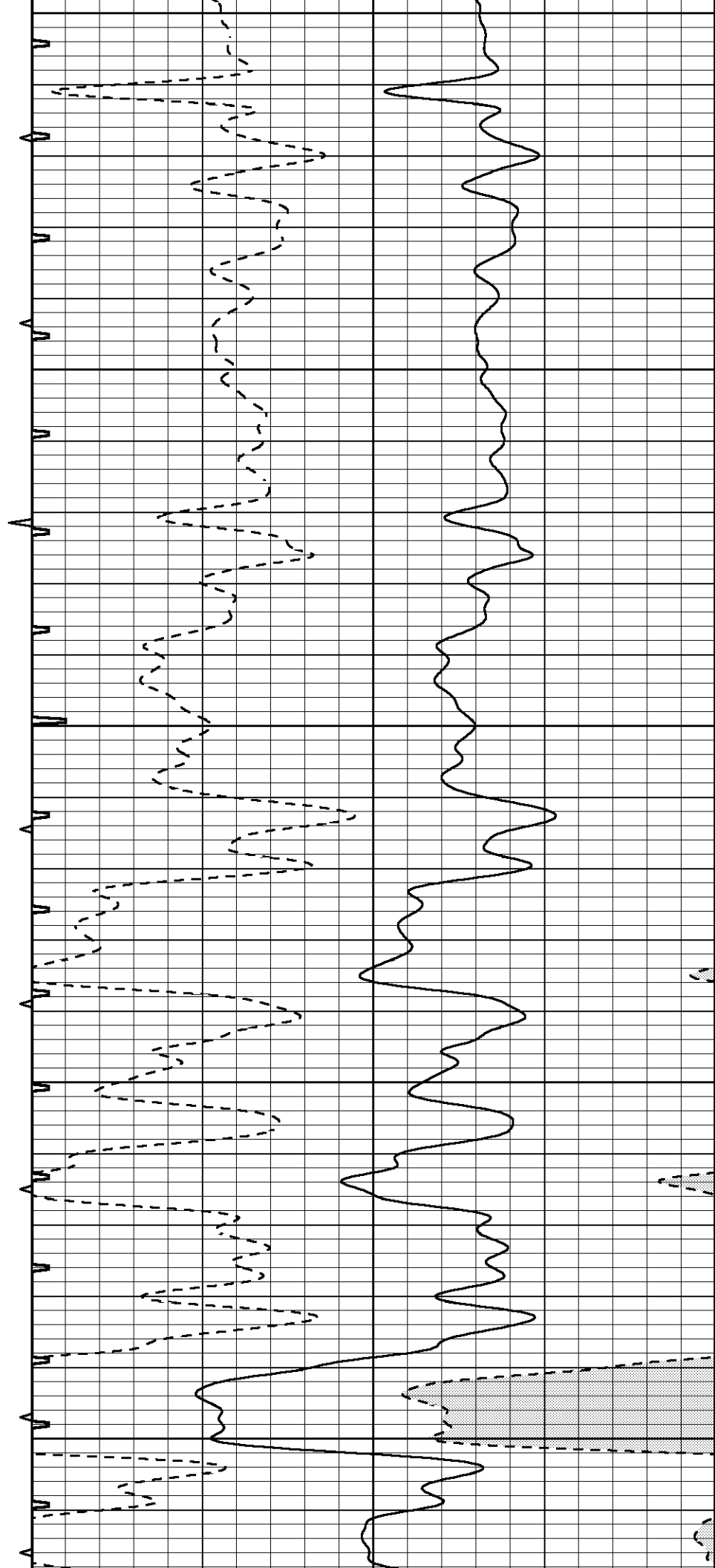
1850

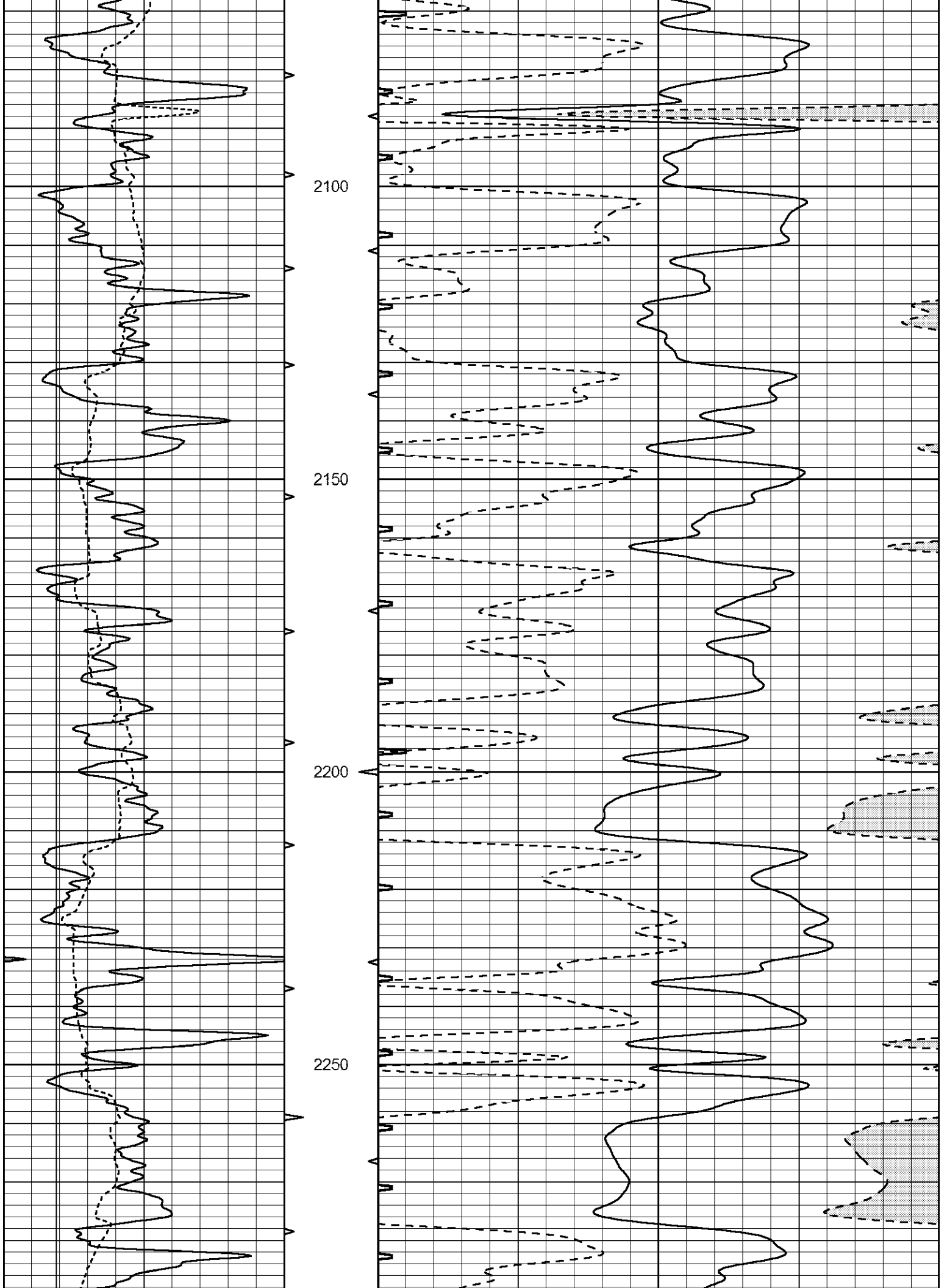
1900

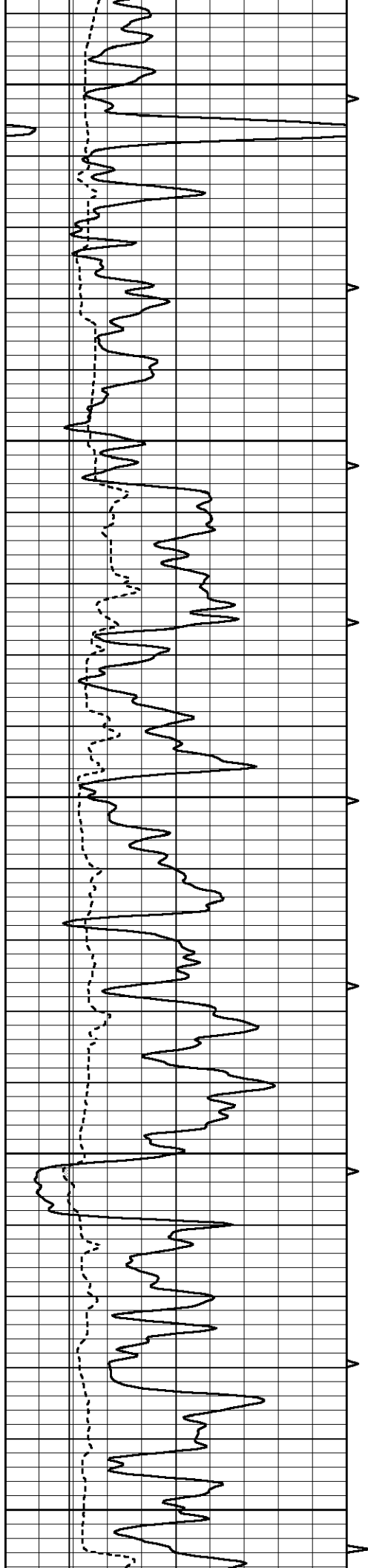
1950

2000

2050







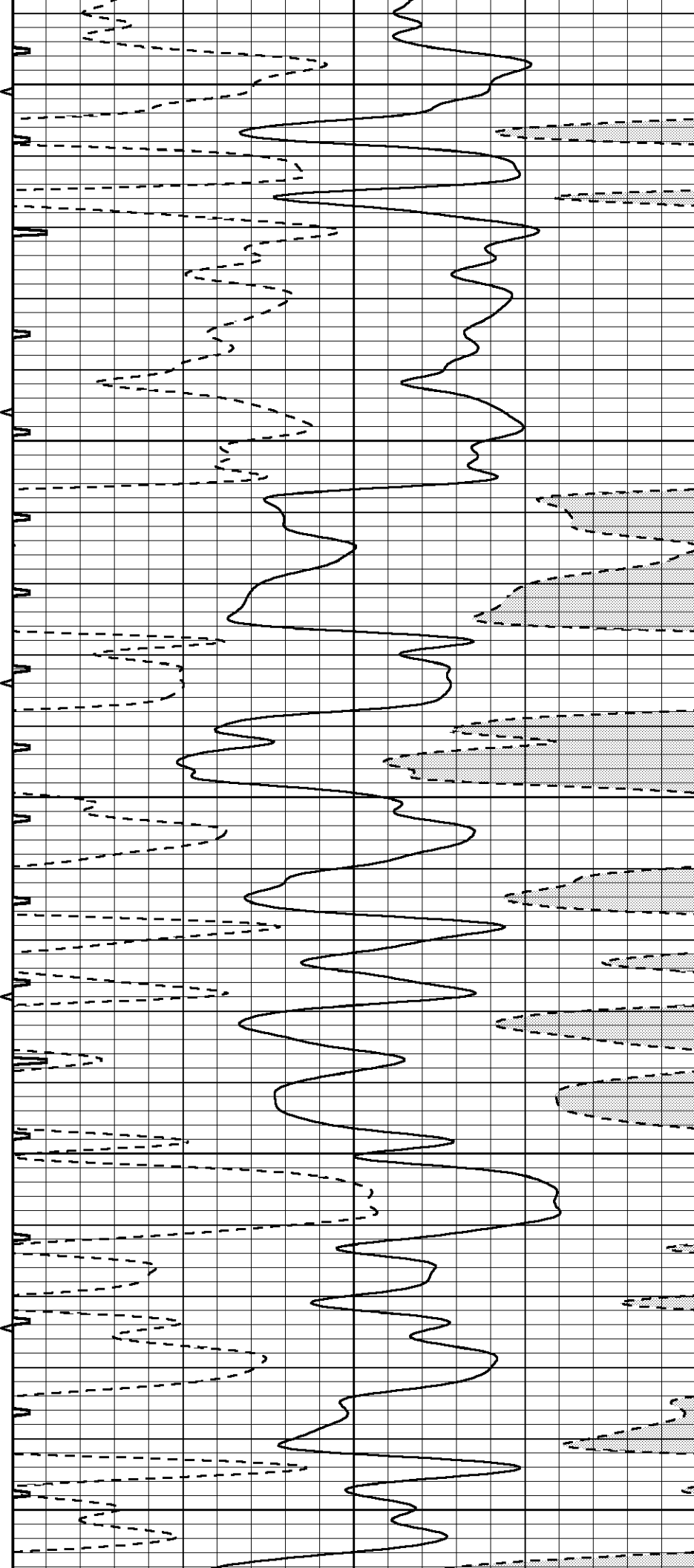
2300

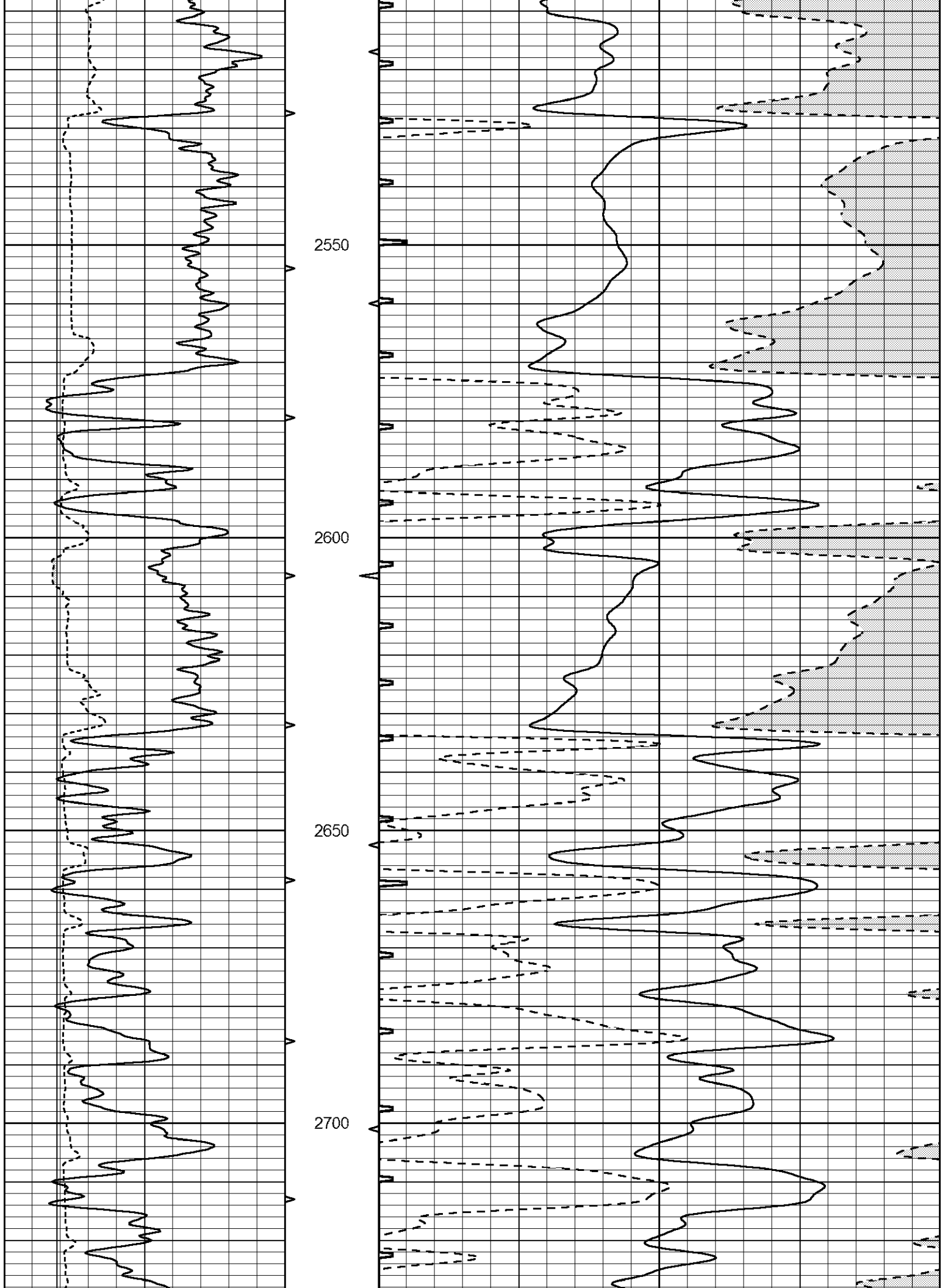
2350

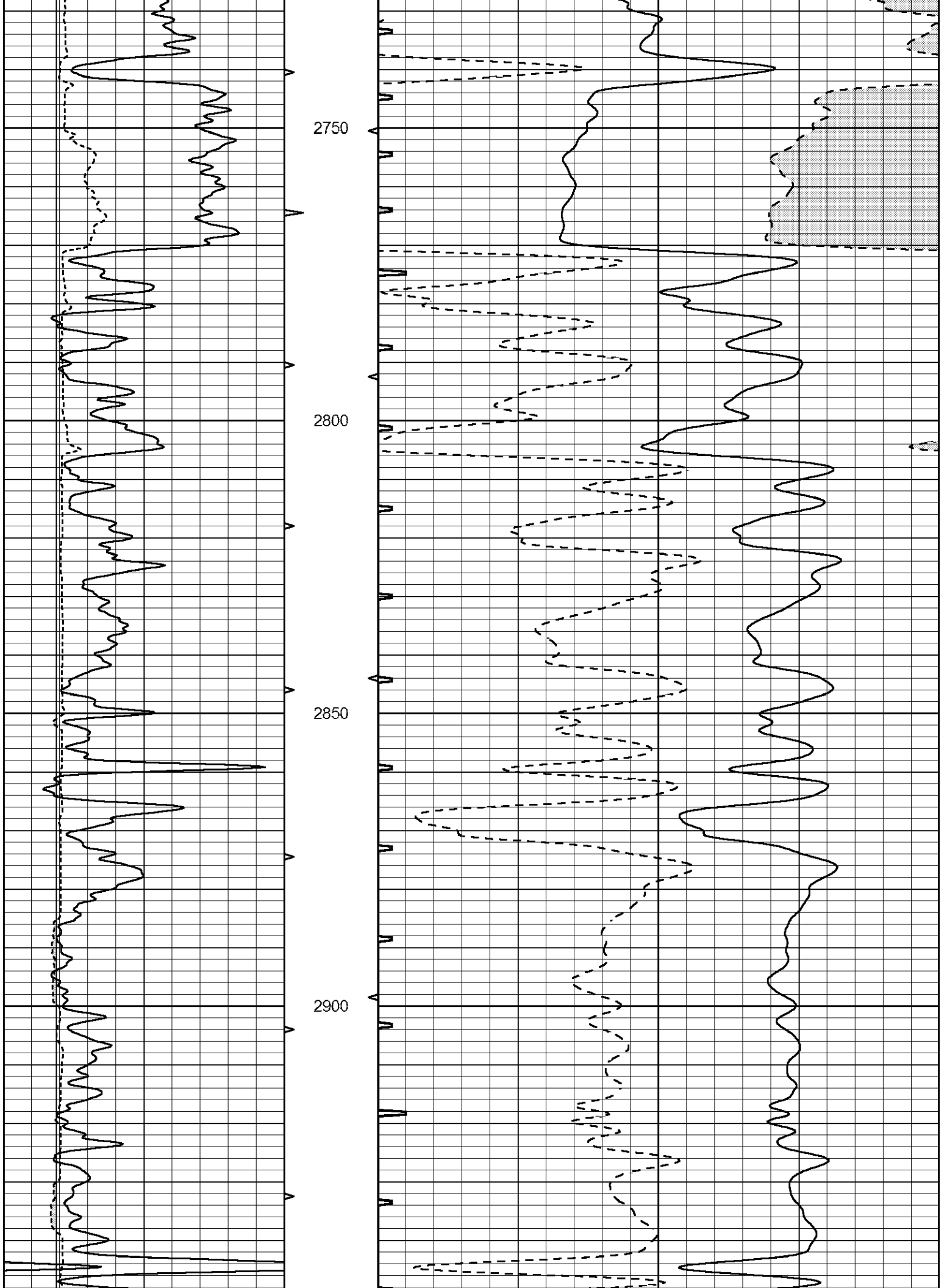
2400

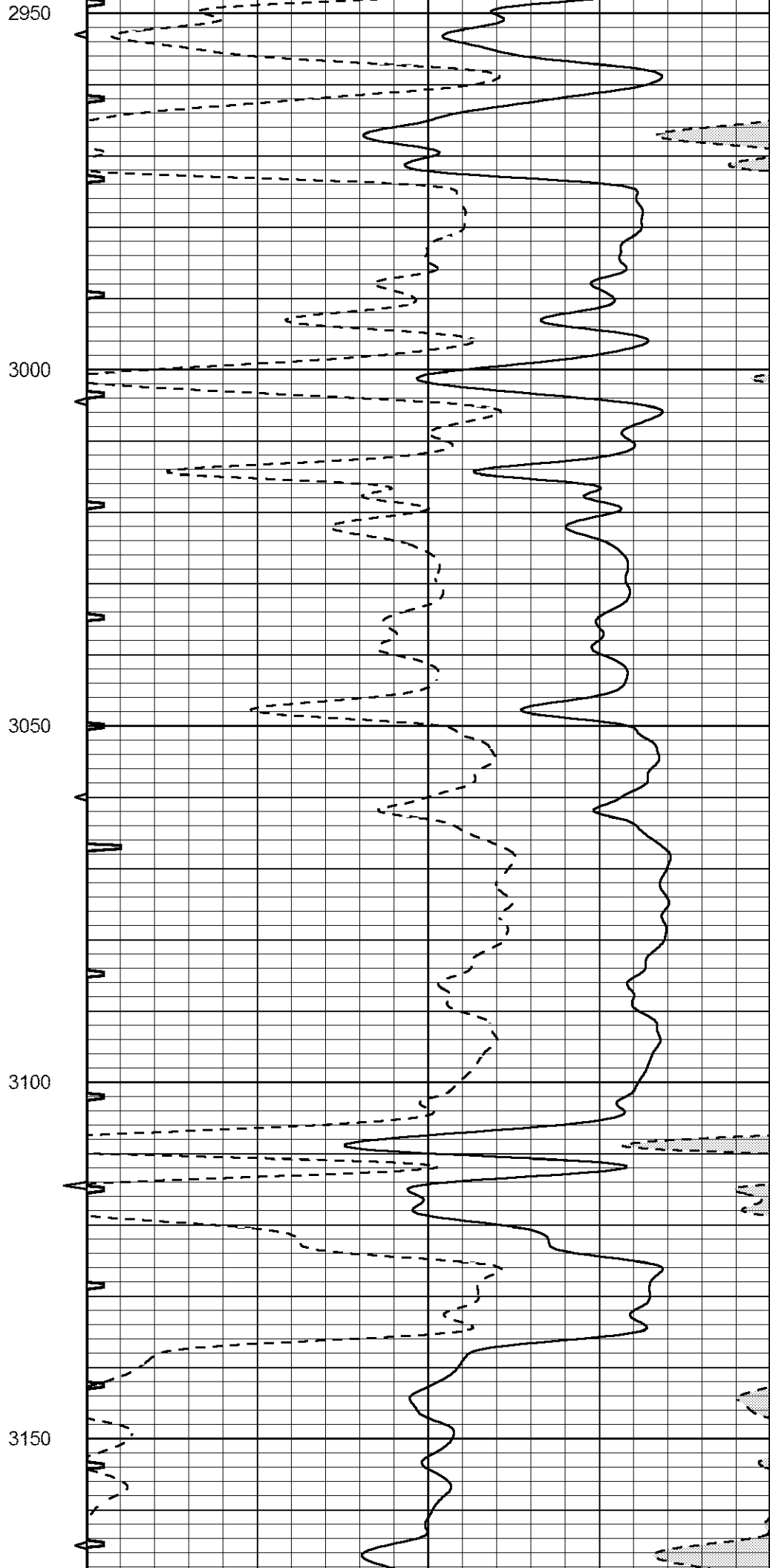
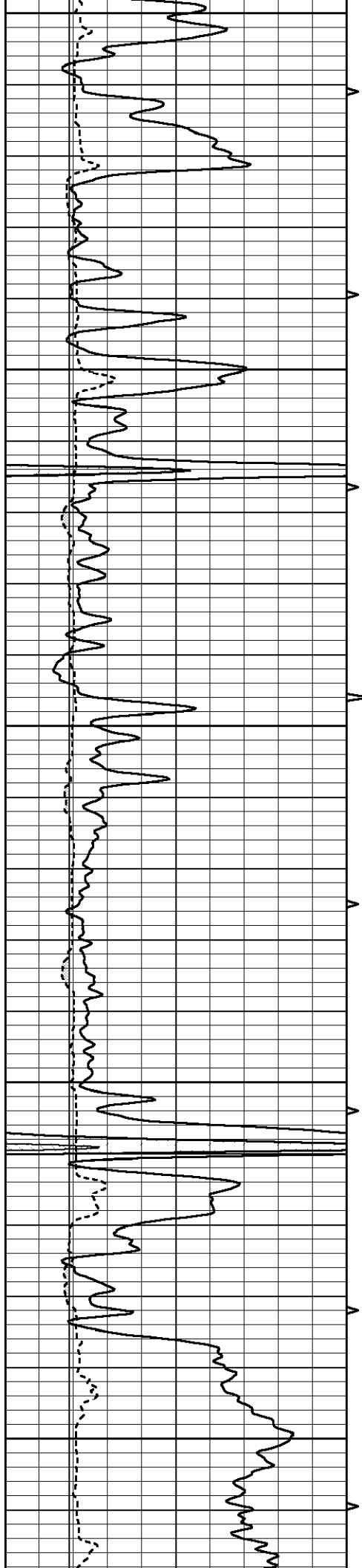
2450

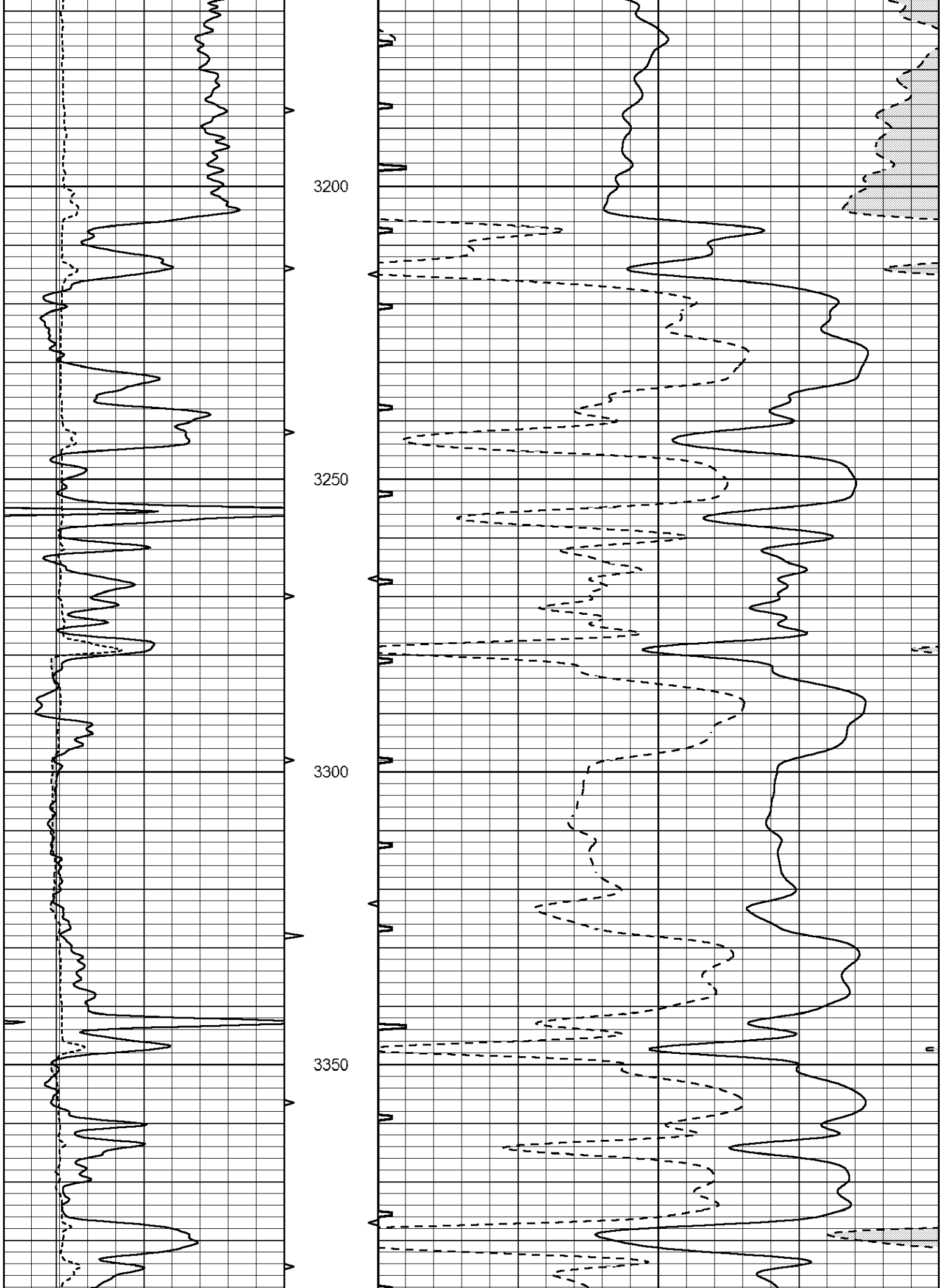
2500











3400

3450

3500

3550

TBHV

3600
LTD 3602

FR GR

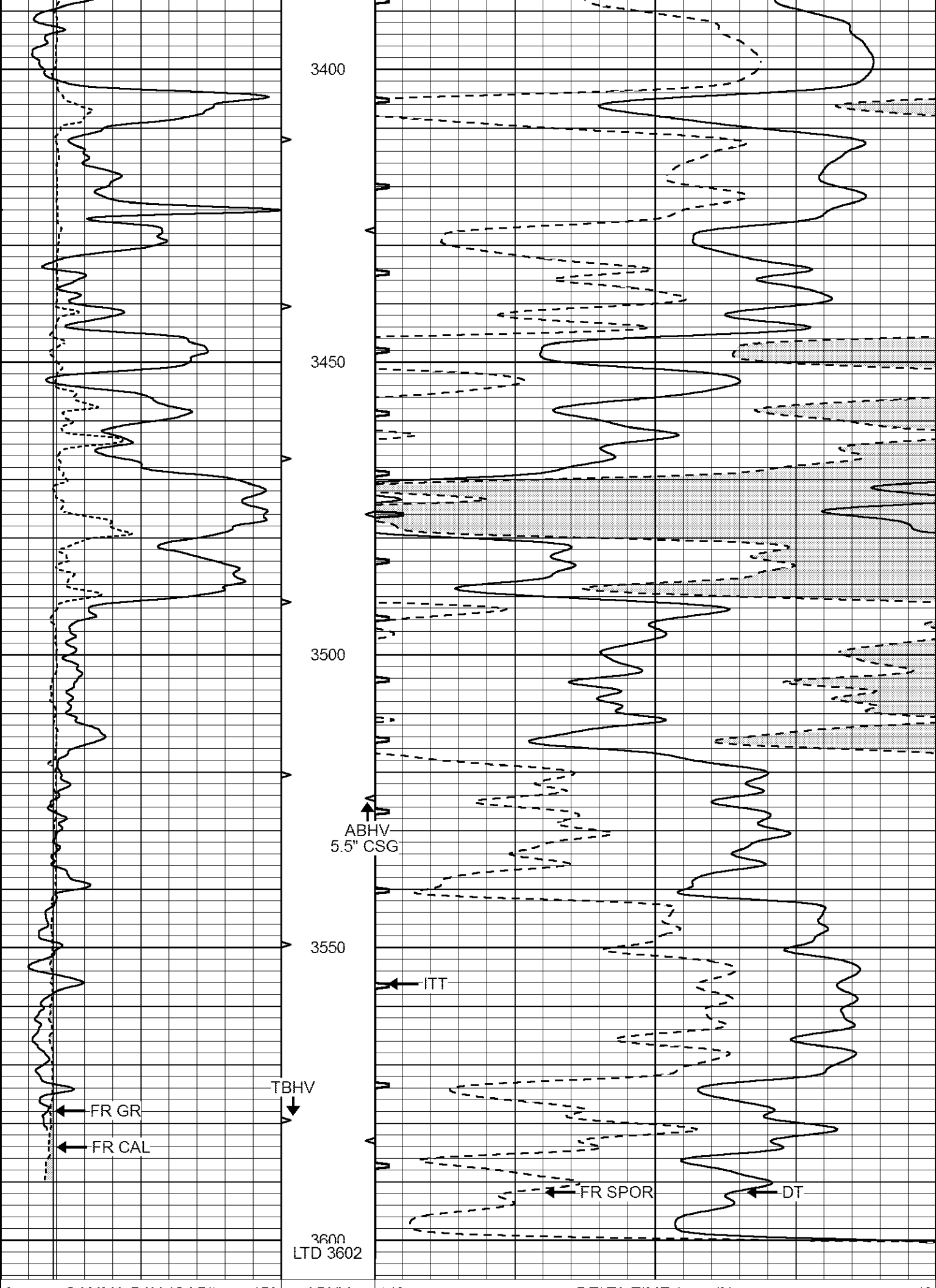
FR CAL

ABHV
5.5" CSG

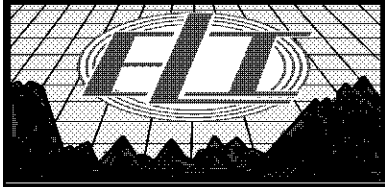
ITT

FR SPOR

DT



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			



REPEAT SECTION

Database File 3430ddn8.db
 Dataset Pathname pass5.1
 Presentation Format _slt
 Dataset Creation Sat Dec 15 07:23:02 2018
 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			

