



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1220569
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1220569

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

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

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

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

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Depe 1-12
Doc ID	1220569

All Electric Logs Run

Borehole Comp Sonic Log
Micro Log
Dual compensated Porosity Log
Dual Induction Log
Fracfinder

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Depe 1-12
Doc ID	1220569

Tops

Name	Top	Datum
Anhydrite	2642	354
Howard	3701	-705
Topeka	3762	-766
Heebner	3932	-936
Toronto	3961	-965
Lansing	3977	-981
Base Kc	4222	-1226
Pawnee	4298	-1302
Cherokee	4394	-1398
Mississippi	4518	-1522



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 270653

Invoice Date: 08/28/2014 Terms: 10/10/10,n/30

Page 1

CARMEN SCHMITT, INC.
P.O. BOX 47 (915 HARRISON)
GREAT BEND KS 57530
(620)793-5100

DEPE 1-12
47664
35-12-31
8-13-14
KS

Description	Hours	Unit Price	Total
CEMENT PUMP (SURFACE)	1.00	1150.00	1150.00
EQUIPMENT MILEAGE (ONE WAY)	25.00	5.25	131.25

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	175.00	18.5500	3246.25
1102	CALCIUM CHLORIDE (50#)	494.00	.9400	464.36
1118B	PREMIUM GEL / BENTONITE	329.00	.2700	88.83

Sublet Performed	Description	Total
9995-130	CEMENT EQUIPMENT DISCOUNT	-171.13
9996-130	CEMENT MATERIAL DISCOUNT	-379.95

Description	Hours	Unit Price	Total
693 MIN. BULK DELIVERY	1.00	430.00	430.00

18689.0112
710/43
Well file

Amount Due 5782.35 if paid after 09/07/2014

Parts:	3799.44	Freight:	.00	Tax:	244.49	AR	5204.10
Labor:	.00	Misc:	.00	Total:	5204.10		
Sublt:	-551.08	Supplies:	.00	Change:	.00		

Signed

Date

BARTLESVILLE, OK 918/338-0808 EL DORADO, KS 316/322-7022 EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-8822 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269 GILLETTE, WY 307/686-4914 CUSHING, OK 918/225-2650



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-9676

270653

TICKET NUMBER 47664
LOCATION Oakley, Mo.
FOREMAN Dawson

FIELD TICKET & TREATMENT REPORT
CEMENT

K.

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
8/13/14	1860	Depe 1-12	35	12	31	Thomas	
CUSTOMER Carmon Schmitt		Gem ETO Rd 30 N 2 m into		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				731	Cory		
CITY		STATE		693	Cody		
ZIP CODE							

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 260 CASING SIZE & WEIGHT 8 3/8, 23"
CASING DEPTH 260.04 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14 E SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
DISPLACEMENT 15.36 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Softly meeting Rig up on WW-8 Run casing Break Circulation with Big Pump Hookup to Pump Truck mix 175 SKS Com 3%CC 2%Gal washup Pump + Lines Displace with 15.36 hb water Shut in Big Down

Cement Did Circulate

Approx 5 hbL to Pit.

Thanks Dawson + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	\$1150.00	\$1150.00 ✓
5406	25	MILEAGE	\$5.25	\$131.25 ✓
5407	8.23	Ton Mileage Delivery (min)	\$1.25	\$430.00 ✓
11045	175 SKS	Class "A" Cement	\$18.55	\$3246.25 ✓
1102	494 *	Calcium Chloride	\$.94	\$464.36 ✓
1118B	329 *	Bentonite	\$.27	\$88.83 ✓
			SubTotal	\$5510.69
			Less 10%	\$551.07
			SubTotal	\$4959.62
			SALES TAX	244.49 ✓
			ESTIMATED TOTAL	5204.10 ✓

completed

[Signature]

AUTHORIZATION _____ TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
8/23/2014	26753

BILL TO
Carmen Schmitt, Inc. P. O. Box 47 915 Harrison Great Bend, KS 67530-0047

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-12	Depe	Thomas	WW Drilling #8	Oil	Development	LongString - Top...	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				100	Miles	6.00	600.00
579D	Pump Charge - Top To Bottom LongString				1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
290	D-Air				6	Gallon(s)	42.00	252.00T
402-5	5 1/2" Centralizer				12	Each	70.00	840.00T
403-5	5 1/2" Cement Basket				6	Each	300.00	1,800.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				200	Sacks	14.50	2,900.00T
330	Swift Multi-Density Standard (MIDCON II)				400	Sacks	18.50	7,400.00T
276	Flocele				150	Lb(s)	2.50	375.00T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				9	Sack(s)	35.00	315.00T
285	CFR-1				150	Lb(s)	4.50	675.00T
581D	Service Charge Cement				600	Sacks	2.00	1,200.00
583D	Drayage				3,005	Ton Miles	1.00	3,005.00
	Subtotal							23,087.00
	Sales Tax Thomas County						7.15%	1,164.16
	<p style="text-align: center;">18689.0112</p> <p style="text-align: center;">710/43</p> <p style="text-align: center;">Well File</p>							
We Appreciate Your Business!							Total	\$24,251.16



CHARGE TO: Carmen Schmitt
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET 26753

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Hayes, Ks
 2. Ness City, Ks
 3. _____
 4. _____

WELL/PROJECT NO. #1-12 LEASE Depo COUNTY/PARISH Thomas STATE KS CITY _____ DATE 8-23-14 OWNER S.M.C.

TICKET TYPE SERVICE SALES CONTRACTOR WYU #28 RIG NAME/NO. _____ SHIPPED VIA RT DELIVERED TO Location ORDER NO. _____

WELL TYPE oil WELL CATEGORY Development JOB PURPOSE Longstring (upto Btm) WELL PERMIT NO. _____ WELL LOCATION _____

INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 110	100		mi		6 ⁰⁰	600 ⁰⁰
579		1			Pump Charge (upto Bottom)	1		ea		2000 ⁰⁰	2000 ⁰⁰
221		1			KCL	2		gal		25 ⁰⁰	50 ⁰⁰
281		1			Mudflash	500		gal		1 ²⁵	625 ⁰⁰
290		1			D-Air	6		gal		42 ⁰⁰	252 ⁰⁰
402		1			Centralizers	12		ea	5 1/2"	70 ⁰⁰	840 ⁰⁰
403		1			Baskets	6		ea		300 ⁰⁰	1800 ⁰⁰
406		1			LD Plug & Bottle	1		ea		275 ⁰⁰	275 ⁰⁰
407		1			Insert Float Shoe w/ fill	1		ea		375 ⁰⁰	375 ⁰⁰
419		1			Rotating Head	1		ea		200 ⁰⁰	200 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

x Coity Hitchcock
 DATE SIGNED 8-23-14 TIME SIGNED 1650 A.M. P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL 1	7067 ⁰⁰
WE UNDERSTOOD AND MET YOUR NEEDS?				page 2	16670 ⁰⁰
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal	23087 ⁰⁰
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Thomas TAX 7.15%	1164 ¹⁶
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL	24,251 ¹⁶

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Nick Hoke APPROVAL _____

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 26753

CUSTOMER *Carman Schmitt* WELL *#1-12 Depe* DATE *8-23-14* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			U/M	U/M				
325		2				Standard Cement	200	sk			14 ⁵⁰	2900 ⁰⁰
330		2				SAND Cement	400	sk			18 ⁵⁰	7400 ⁰⁰
276		2				Flacile	150	#			2 ⁵⁰	375 ⁰⁰
283		2				Flacile Salt	1000	#			0 ⁰⁰	200 ⁰⁰
284		2				Culsaal	9	sk			35 ⁰⁰	315 ⁰⁰
285		2				CFR-1	150	#			4 ⁵⁰	675 ⁰⁰
581		2				SERVICE CHARGE					2 ⁰⁰	1200 ⁰⁰
583		2				MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES		1 ⁰⁰	3005 ⁰⁰
							20164	100	3005			

CONTINUATION TOTAL 16070⁰⁰

JOB LOG

SWIFT Services, Inc.

DATE 8-23-14 PAGE NO. 7

CUSTOMER Carmen Schmitt

WELL NO. # 1-12

LEASE Depe

JOB TYPE Top to Bottoms

TICKET NO. 26753

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1130							on loc W/F/E
								RTD 4610' LTD 4614'
								5 1/2" x 15.5' x 4597' x 14'
								Cent 5, 7, 9, 11, 13, 15, 17, 19, 21, 47, 77, 79
								Back: 1, 9, 12, 18, 46, 76
	1145							Start FE.
	1400							Break Circ
	1500	2	7					Plug RH 30 sks SMD
	1510	5	0			200		Start 50 gal Mud/Flush
		5	12/0			200		Start 20 bbl KCL flush
		5	20/0			200		Start 270 sks SMD @ 11 1/2
		5	165/0			200		Start 50 sks SMD @ 11 1/2
		5	23/0			200		Start 50 sks SMD @ 12 1/2
		5	21/0			200		Start 200 sks EA-2 cement
	1610		48			200		End Cement Wash P&H Drop L.D. Plug
	1620	6	0			200		Start Displacement
		5	78			700		Circ. Cement
	1640		109			1000 2000		Load Plug Release Pressure Float Hold
								Circ 50 sks to pit
								Thank you
								Nick, Dave K, Jared, & Craig



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Larry Nicholson

Depe #1-12

12-7s-32w Thomas,KS

Start Date: 2014.08.16 @ 20:57:00

End Date: 2014.08.17 @ 02:39:00

Job Ticket #: 58372 DST #: 1

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

Printed: 2014.08.22 @ 15:40:41



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58372

DST#: 1

ATTN: Larry Nicholson

Test Start: 2014.08.16 @ 20:57:00

GENERAL INFORMATION:

Formation: **Howard - Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:46:30

Time Test Ended: 02:39:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 3725.00 ft (KB) To 3766.00 ft (KB) (TVD)

Reference Elevations: 2996.00 ft (KB)

Total Depth: 3766.00 ft (KB) (TVD)

2991.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647 Outside

Press@RunDepth: 83.63 psig @ 3726.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.16

End Date:

2014.08.17

Last Calib.:

2014.08.17

Start Time: 20:57:01

End Time:

02:39:00

Time On Btm:

2014.08.16 @ 22:45:30

Time Off Btm:

2014.08.17 @ 01:19:30

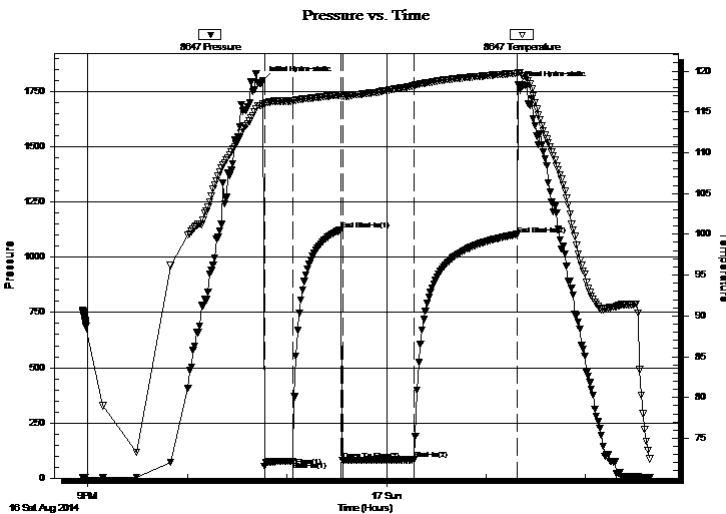
TEST COMMENT: 15 - IF - Opened w/ surface blow , built to 4 1/4"

30 - ISI - No Return

45 - FF - No Blow

60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1799.14	115.97	Initial Hydro-static
1	54.50	115.97	Open To Flow (1)
18	77.60	116.32	Shut-In(1)
47	1124.55	117.09	End Shut-In(1)
48	81.40	116.89	Open To Flow (2)
91	83.63	118.21	Shut-In(2)
153	1102.93	119.73	End Shut-In(2)
154	1779.15	119.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
132.00	100% mud w/ oil spot in tool	0.74

Gas Rates

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



DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas, KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58372

DST#: 1

ATTN: Larry Nicholson

Test Start: 2014.08.16 @ 20:57:00

GENERAL INFORMATION:

Formation: **Howard - Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:46:30
 Time Test Ended: 02:39:00
 Interval: **3725.00 ft (KB) To 3766.00 ft (KB) (TVD)**
 Total Depth: 3766.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Quintana
 Unit No: 48
 Reference Elevations: 2996.00 ft (KB)
 2991.00 ft (CF)
 KB to GR/CF: 5.00 ft

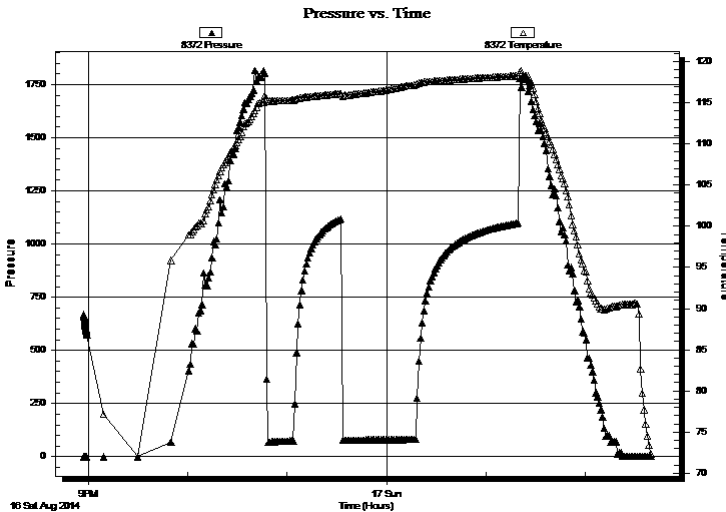
Serial #: 8372

Outside

Press@RunDepth: psig @ 3726.00 ft (KB)
 Start Date: 2014.08.16 End Date: 2014.08.17
 Start Time: 20:57:01 End Time: 02:40:00
 Capacity: 8000.00 psig
 Last Calib.: 2014.08.17
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15 - IF - Opened w/ surface blow , built to 4 1/4"
 30 - ISI - No Return
 45 - FF - No Blow
 60 - FSI - No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
132.00	100% mud w/ oil spot in tool	0.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58372

DST#: 1

ATTN: Larry Nicholson

Test Start: 2014.08.16 @ 20:57:00

Tool Information

Drill Pipe:	Length: 3582.00 ft	Diameter: 3.80 inches	Volume: 50.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.79 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 50.85 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	6.79 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3725.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3698.00	
Shut In Tool	5.00			3703.00	
Hydraulic tool	5.00			3708.00	
Jars	5.00			3713.00	
Safety Joint	3.00			3716.00	
Packer	5.00			3721.00	28.00 Bottom Of Top Packer
Packer	4.00			3725.00	
Stubb	1.00			3726.00	
Recorder	0.00	8647	Outside	3726.00	
Recorder	0.00	8372	Outside	3726.00	
Perforations	37.00			3763.00	
Bullnose	3.00			3766.00	41.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58372

DST#: 1

ATTN: Larry Nicholson

Test Start: 2014.08.16 @ 20:57:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
132.00	100% mud w / oil spot in tool	0.742

Total Length: 132.00 ft Total Volume: 0.742 bbl

Num Fluid Samples: 0

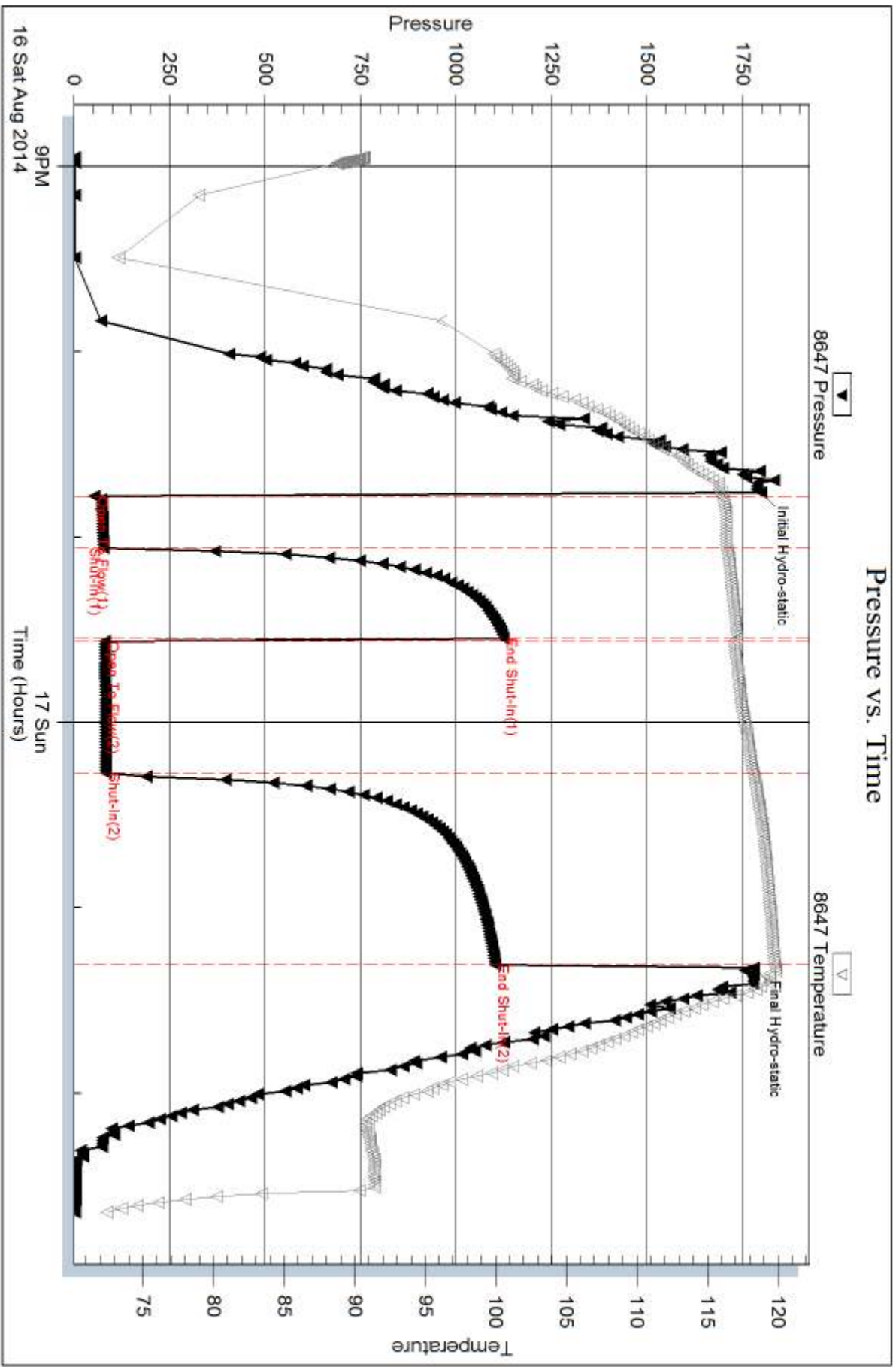
Num Gas Bombs: 0

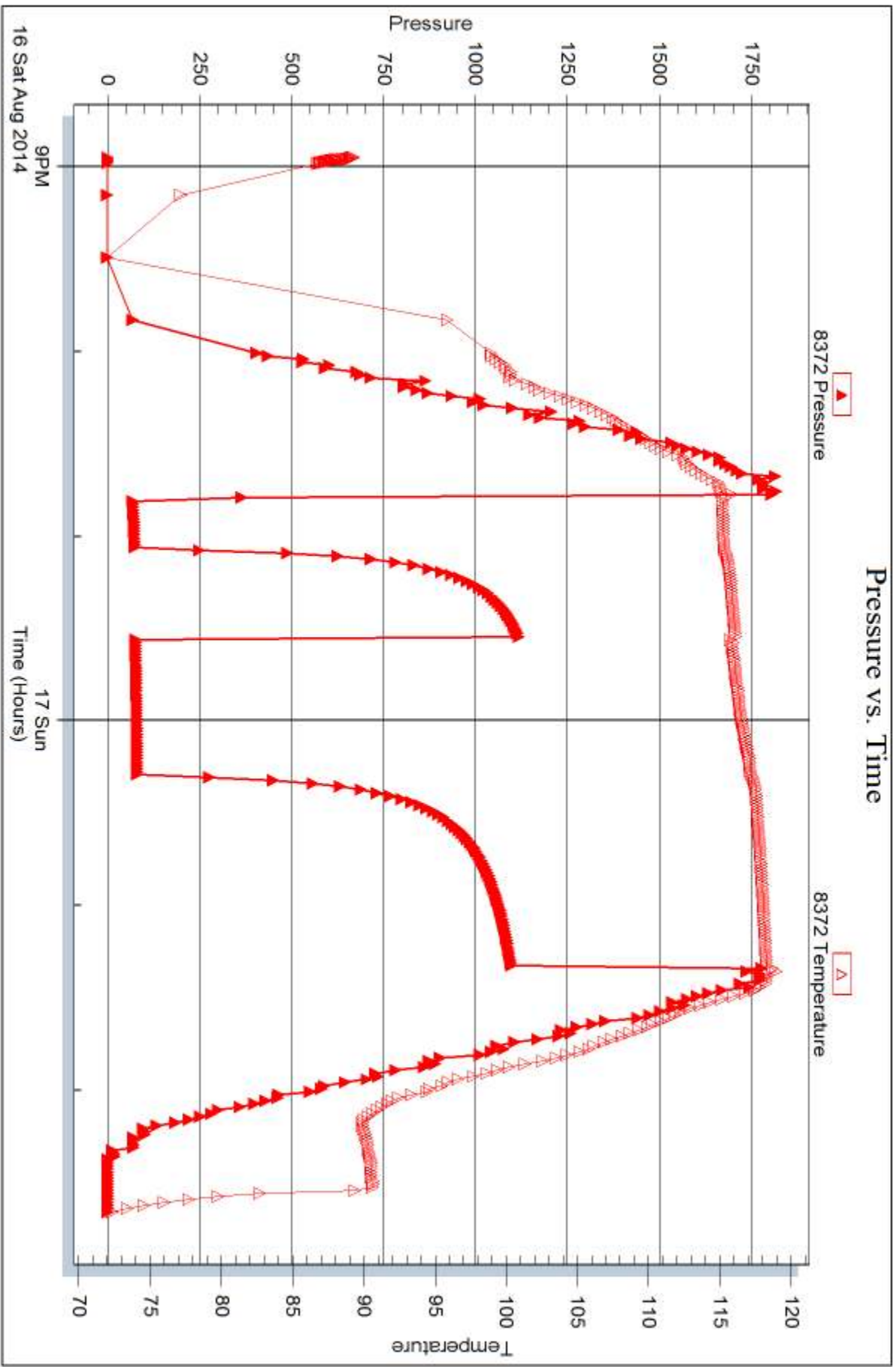
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Larry Nicholson

Depe #1-12

12-7s-32w Thomas,KS

Start Date: 2014.08.17 @ 15:56:00

End Date: 2014.08.17 @ 20:44:30

Job Ticket #: 58373 DST #: 2

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

Printed: 2014.08.22 @ 15:39:43



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58373

DST#: 2

ATTN: Larry Nicholson

Test Start: 2014.08.17 @ 15:56:00

GENERAL INFORMATION:

Formation: **No Specified Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:28:30

Time Test Ended: 20:44:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 3792.00 ft (KB) To 3889.00 ft (KB) (TVD)

Reference Elevations: 2996.00 ft (KB)

Total Depth: 3889.00 ft (KB) (TVD)

2991.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 446.84 psig @ 3793.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.17

End Date:

2014.08.17

Last Calib.:

2014.08.17

Start Time:

15:56:01

End Time:

20:44:30

Time On Btm:

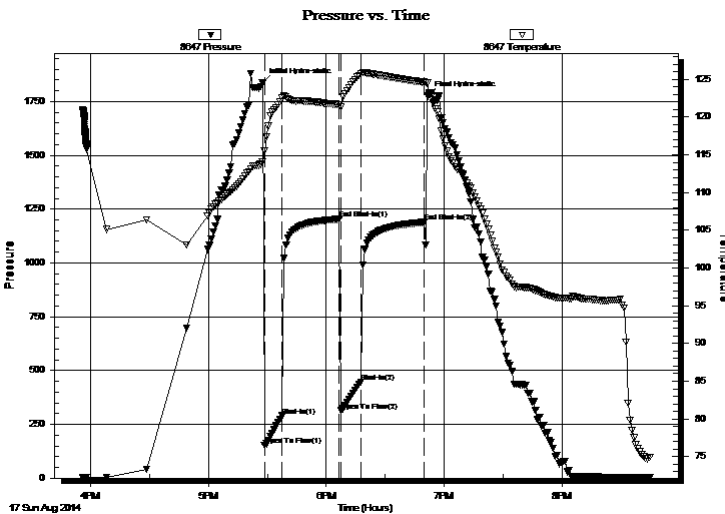
2014.08.17 @ 17:27:30

Time Off Btm:

2014.08.17 @ 18:51:30

TEST COMMENT: 10 - IF - Opened w/ surface blow , built to B.o.B in 2 min.
30 - ISI - No Return
10 - FF - Opened with surface blow , built to B.o.B in 2 min.
30 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1836.12	114.11	Initial Hydro-static
1	151.36	115.57	Open To Flow (1)
10	289.65	122.60	Shut-In(1)
39	1203.95	121.65	End Shut-In(1)
40	313.23	121.32	Open To Flow (2)
50	446.84	125.71	Shut-In(2)
82	1188.61	124.62	End Shut-In(2)
84	1775.20	124.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
439.00	MW w / oil spots 90%w , 10%m	5.05
189.00	WM w / oil spots 60%m, 40%w	2.65
315.00	100%m w / oil spots	4.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58373

DST#: 2

ATTN: Larry Nicholson

Test Start: 2014.08.17 @ 15:56:00

Tool Information

Drill Pipe:	Length: 3648.00 ft	Diameter: 3.80 inches	Volume: 51.17 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.79 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.79 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3792.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	97.00 ft			
Tool Length:	125.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3765.00	
Shut In Tool	5.00			3770.00	
Hydraulic tool	5.00		Inside	3775.00	
Jars	5.00			3780.00	
Safety Joint	3.00			3783.00	
Packer	5.00			3788.00	28.00 Bottom Of Top Packer
Packer	4.00			3792.00	
Stubb	1.00			3793.00	
Recorder	0.00	8647	Inside	3793.00	
Recorder	0.00	8372	Outside	3793.00	
Perforations	27.00			3820.00	
Change Over Sub	1.00			3821.00	
Drill Pipe	64.00			3885.00	
Change Over Sub	1.00			3886.00	
Bullnose	3.00			3889.00	97.00 Bottom Packers & Anchor

Total Tool Length: 125.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58373

DST#: 2

ATTN: Larry Nicholson

Test Start: 2014.08.17 @ 15:56:00

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:

38000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
439.00	MW w / oil spots 90%w , 10%m	5.049
189.00	WM w / oil spots 60%m, 40%w	2.651
315.00	100%m w / oil spots	4.419

Total Length: 943.00 ft Total Volume: 12.119 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

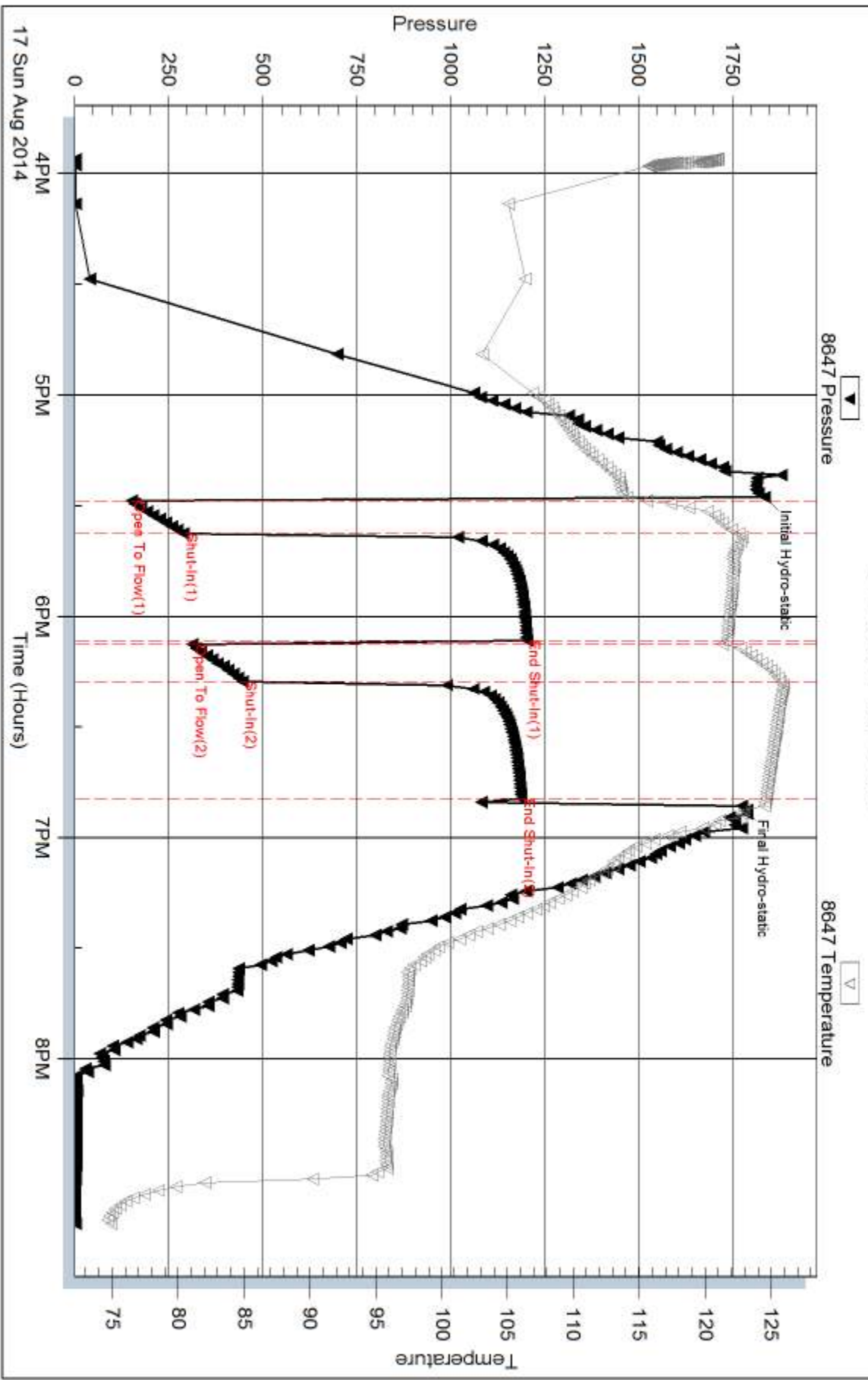
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Temp = 75.3 Water Resistance = .198

Pressure vs. Time

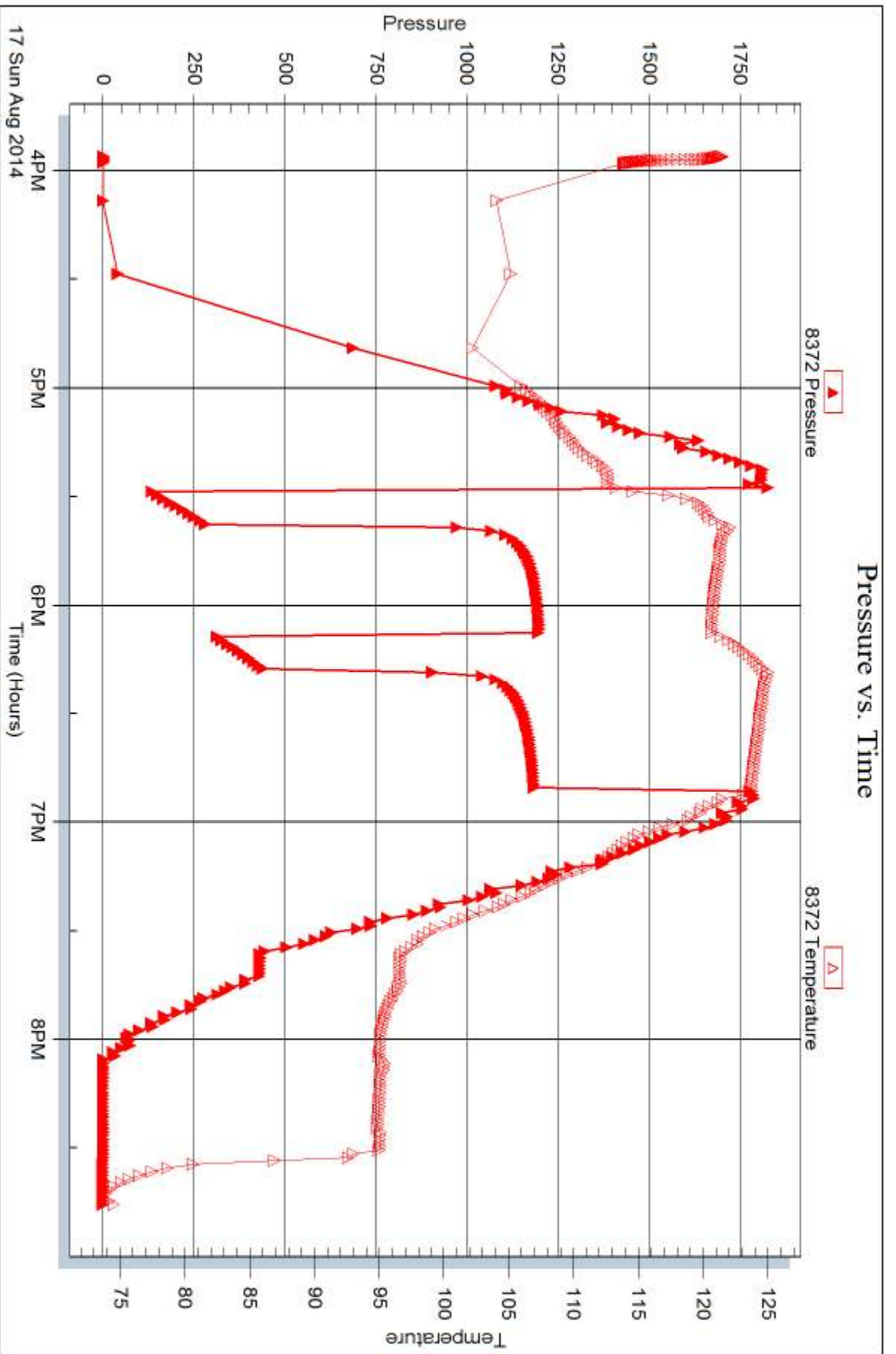


Serial #: 8372

Outside Carmen Schmitt, Inc.

Depe #1-12

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58373

Printed: 2014.08.22 @ 15:40:02



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Larry Nicholson

Depe #1-12

12-7s-32w Thomas,KS

Start Date: 2014.08.18 @ 09:45:00

End Date: 2014.08.18 @ 16:38:30

Job Ticket #: 58374 DST #: 3

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

Printed: 2014.08.22 @ 15:38:34



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58374

DST#: 3

ATTN: Larry Nicholson

Test Start: 2014.08.18 @ 09:45:00

GENERAL INFORMATION:

Formation: **Toronto & LKC 'A'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:11:30
 Time Test Ended: 16:38:30
 Interval: **3925.00 ft (KB) To 3986.00 ft (KB) (TVD)**
 Total Depth: 3986.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Quintana
 Unit No: 48
 Reference Elevations: 2996.00 ft (KB)
 2991.00 ft (CF)
 KB to GR/CF: 5.00 ft

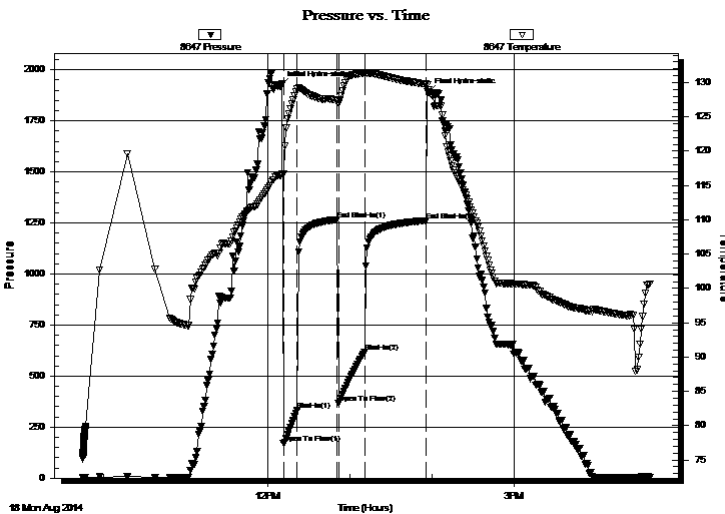
Serial #: 8647

Inside

Press@RunDepth: 618.78 psig @ 3926.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.18 End Date: 2014.08.18 Last Calib.: 2014.08.18
 Start Time: 09:45:01 End Time: 16:38:30 Time On Btm: 2014.08.18 @ 12:09:30
 Time Off Btm: 2014.08.18 @ 13:56:30

TEST COMMENT: 10 - IF- Opened w / surface blow , built to B.o.B in 2 min.
 30 - ISI - Return built to 1/2", died back to 1/4"
 20 - FF - Opened w / surface blow , built to B.o.B in 2 min.
 40 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1920.67	116.45	Initial Hydro-static
2	170.92	116.72	Open To Flow (1)
12	333.17	129.04	Shut-In(1)
41	1266.04	127.40	End Shut-In(1)
42	366.47	126.95	Open To Flow (2)
61	618.78	131.34	Shut-In(2)
106	1261.38	129.75	End Shut-In(2)
107	1890.49	129.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	OCM 80% m, 20% o	1.49
756.00	WOCM 57.5% w, 25% m, 17.5% o	10.60
189.00	WMCO 70% w, 20% o, 10% m	2.65
185.00	WMCO 70% o, 20% w, 10% m	2.60

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58374

DST#: 3

ATTN: Larry Nicholson

Test Start: 2014.08.18 @ 09:45:00

Tool Information

Drill Pipe:	Length: 3806.00 ft	Diameter: 3.80 inches	Volume: 53.39 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.79 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 53.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.79 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3925.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3898.00	
Shut In Tool	5.00			3903.00	
Hydraulic tool	5.00		Inside	3908.00	
Jars	5.00			3913.00	
Safety Joint	3.00			3916.00	
Packer	5.00			3921.00	28.00 Bottom Of Top Packer
Packer	4.00			3925.00	
Stubb	1.00			3926.00	
Recorder	0.00	8647	Inside	3926.00	
Recorder	0.00	8372	Outside	3926.00	
Perforations	23.00			3949.00	
Change Over Sub	1.00			3950.00	
Drill Pipe	32.00			3982.00	
Change Over Sub	1.00			3983.00	
Bullnose	3.00			3986.00	61.00 Bottom Packers & Anchor

Total Tool Length: 89.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58374

DST#: 3

ATTN: Larry Nicholson

Test Start: 2014.08.18 @ 09:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	OCM 80%m, 20%o	1.486
756.00	WOCM 57.5%w, 25%m, 17.5%o	10.605
189.00	WMCO 70%w, 20%o, 10%m	2.651
185.00	WMCO 70%o, 20%w, 10%m	2.595

Total Length: 1315.00 ft Total Volume: 17.337 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

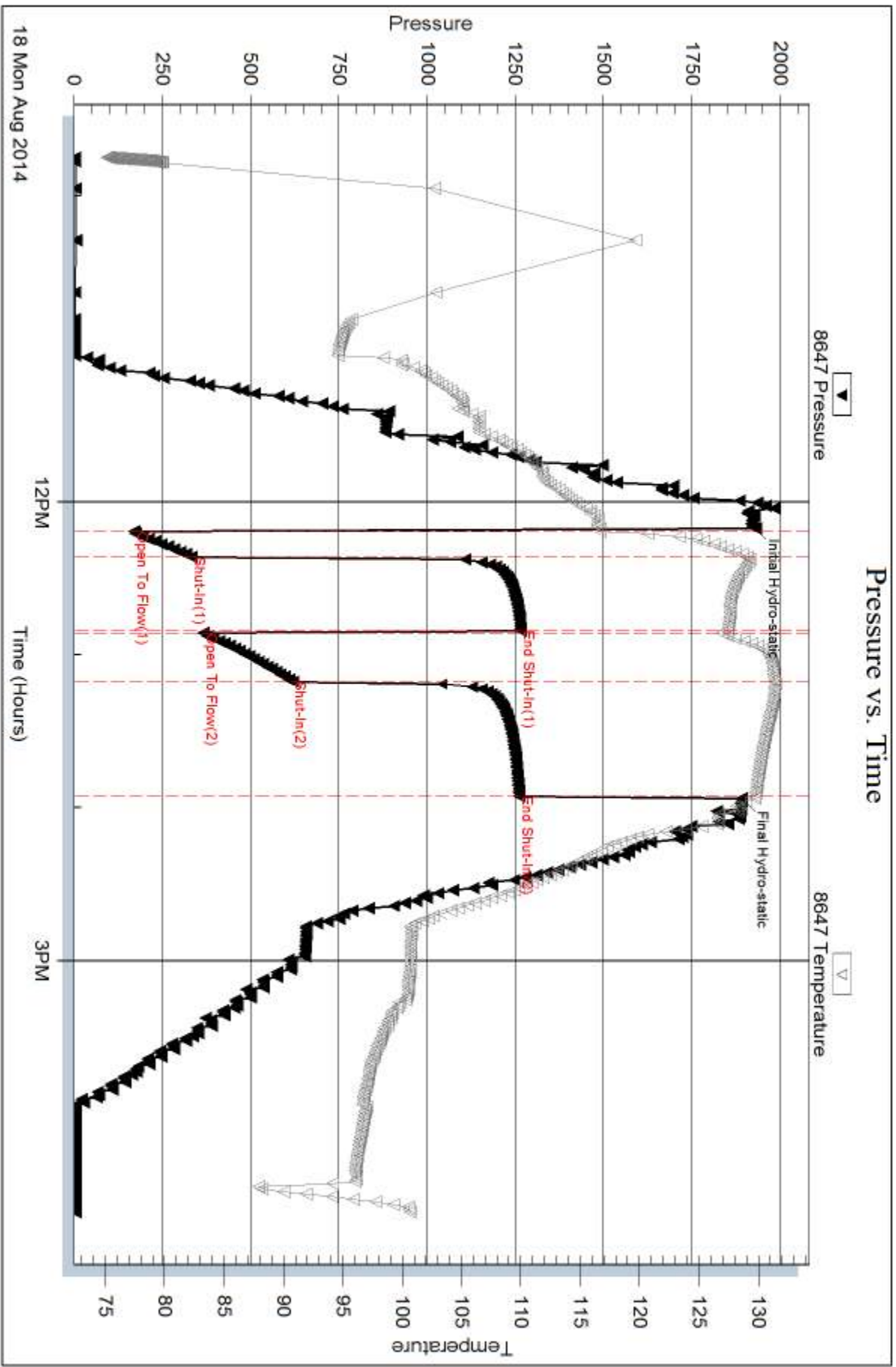
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .123 @99.6 Chlorides 48000ppm

Gravity 23 @ 98 corrected = 27

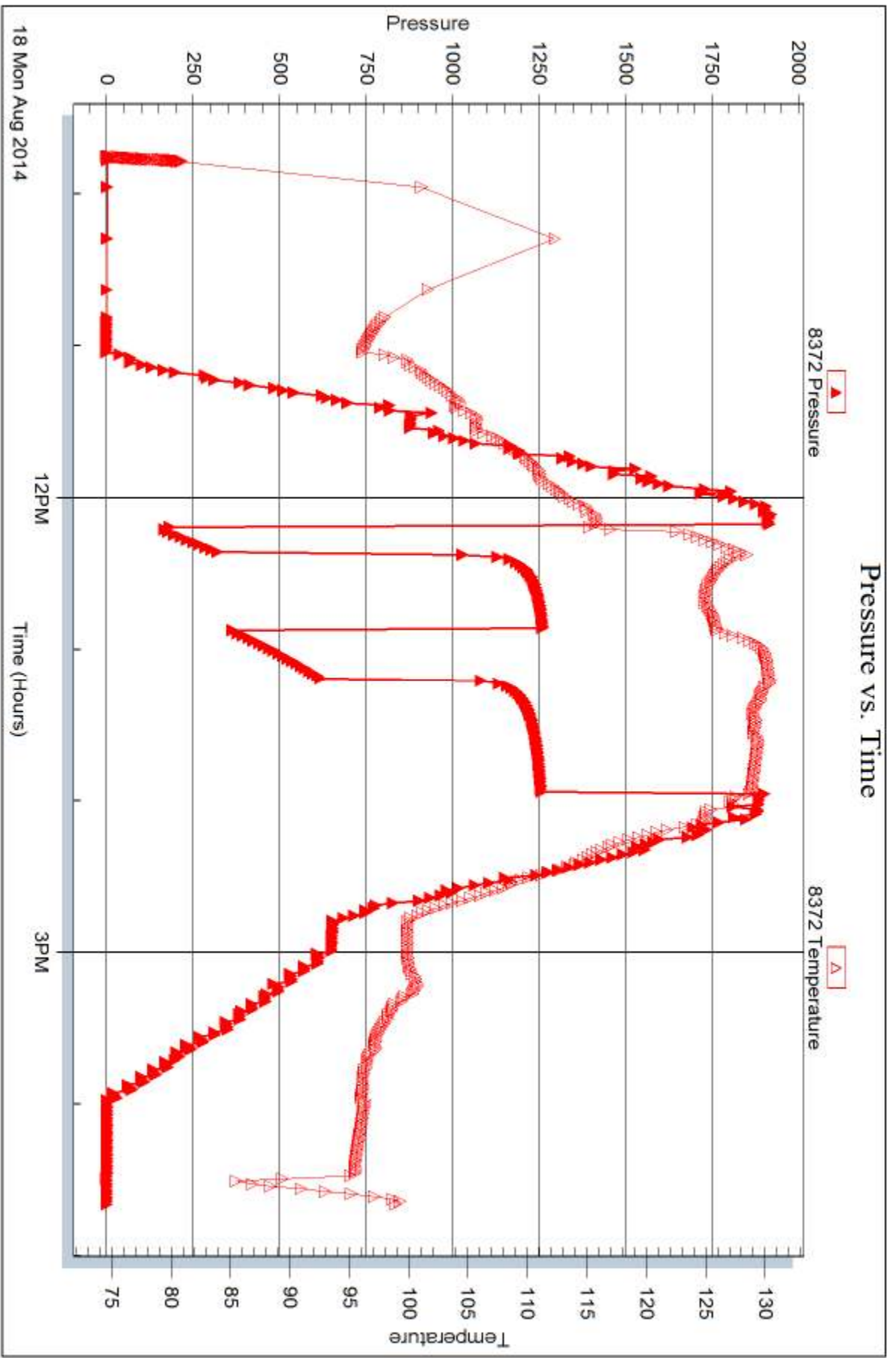


Serial #: 8372

Outside Carmen Schmitt, Inc.

Depe #1-12

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 58374

Printed: 2014.08.22 @ 15:39:11



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Larry Nicholson

Depe #1-12

12-7s-32w Thomas,KS

Start Date: 2014.08.19 @ 12:56:00

End Date: 2014.08.19 @ 20:23:00

Job Ticket #: 58375 DST #: 4

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

Printed: 2014.08.22 @ 15:37:34



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58375

DST#: 4

ATTN: Larry Nicholson

Test Start: 2014.08.19 @ 12:56:00

GENERAL INFORMATION:

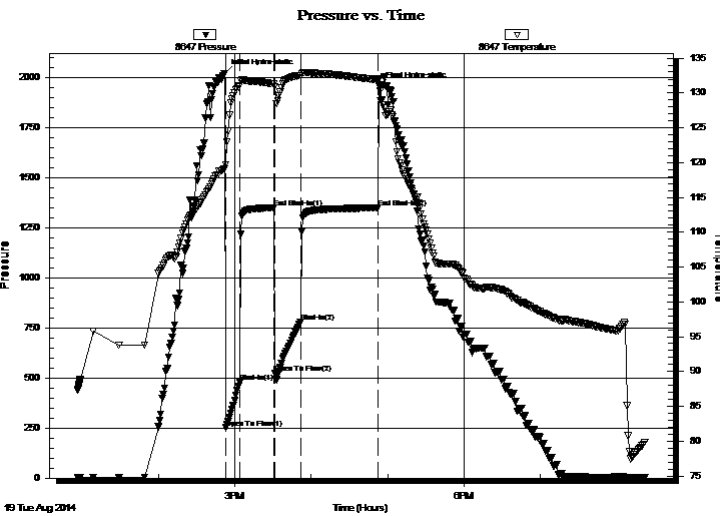
Formation: **LKC "H-J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 14:52:30 Tester: Brandon Quintana
 Time Test Ended: 20:23:00 Unit No: 48
 Interval: **4077.00 ft (KB) To 4164.00 ft (KB) (TVD)** Reference Elevations: 2996.00 ft (KB)
 Total Depth: 4164.00 ft (KB) (TVD) 2991.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 776.90 psig @ 4078.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.19 End Date: 2014.08.19 Last Calib.: 2014.08.19
 Start Time: 12:56:01 End Time: 20:23:00 Time On Btm: 2014.08.19 @ 14:51:30
 Time Off Btm: 2014.08.19 @ 16:53:30

TEST COMMENT: 10 - IF - B.o.B in 1 min. & a half
 30 - ISI - REturn built to 7 in. over the 30 min.
 20 - FF - B.o.B in 1 min. & a half
 60 - FSI - B.o.B in 6 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2019.03	119.14	Initial Hydro-static
1	250.94	119.66	Open To Flow (1)
12	476.65	131.01	Shut-In(1)
39	1348.97	131.27	End Shut-In(1)
40	523.50	130.87	Open To Flow (2)
60	776.90	132.49	Shut-In(2)
121	1348.07	131.90	End Shut-In(2)
122	1955.00	132.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	GWO 60%g, 30%o, 10%w	1.49
1134.00	GWMCO 41%o, 37%g, 12%m, 10%w	15.91
189.00	GOCM 60%m, 20%o, 20%g	2.65
174.00	GO 90%o, 10%g	2.44
0.00	693' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58375

DST#: 4

ATTN: Larry Nicholson

Test Start: 2014.08.19 @ 12:56:00

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:30

Time Test Ended: 20:23:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 4077.00 ft (KB) To 4164.00 ft (KB) (TVD)

Reference Elevations: 2996.00 ft (KB)

Total Depth: 4164.00 ft (KB) (TVD)

2991.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press@RunDepth: psig @ 4078.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.19

End Date:

2014.08.19

Last Calib.:

2014.08.19

Start Time: 12:56:01

End Time:

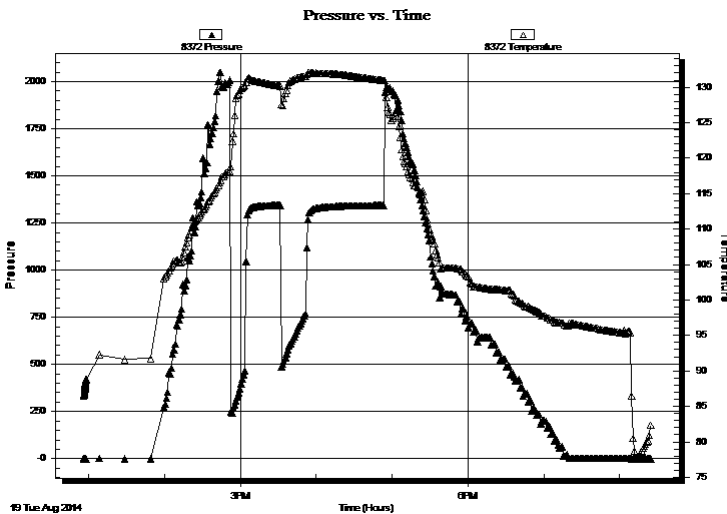
20:24:30

Time On Btm:

Time Off Btm:

TEST COMMENT:
10 - IF - B.o.B in 1 min. & a half
30 - ISI - REturn built to 7 in. over the 30 min.
20 - FF - B.o.B in 1 min. & a half
60 - FSI - B.o.B in 6 min.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
185.00	GWO 60%g, 30%o, 10%w	1.49
1134.00	GWMCO 41%o, 37%g, 12%m, 10%w	15.91
189.00	GOCM 60%m, 20%o, 20%g	2.65
174.00	GO 90%o, 10%g	2.44
0.00	693' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58375

DST#: 4

ATTN: Larry Nicholson

Test Start: 2014.08.19 @ 12:56:00

Tool Information

Drill Pipe:	Length: 3935.00 ft	Diameter: 3.80 inches	Volume: 55.20 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.79 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.79 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4077.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4050.00	
Shut In Tool	5.00			4055.00	
Hydraulic tool	5.00		Inside	4060.00	
Jars	5.00			4065.00	
Safety Joint	3.00			4068.00	
Packer	5.00			4073.00	28.00 Bottom Of Top Packer
Packer	4.00			4077.00	
Stubb	1.00			4078.00	
Recorder	0.00	8647	Inside	4078.00	
Recorder	0.00	8372	Outside	4078.00	
Perforations	17.00			4095.00	
Change Over Sub	1.00			4096.00	
Drill Pipe	64.00			4160.00	
Change Over Sub	1.00			4161.00	
Bullnose	3.00			4164.00	87.00 Bottom Packers & Anchor

Total Tool Length: 115.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 58375

DST#: 4

ATTN: Larry Nicholson

Test Start: 2014.08.19 @ 12:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

46 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	GWO 60%g, 30%o, 10%w	1.486
1134.00	GWMCO 41%o, 37%g, 12%m, 10%w	15.907
189.00	GOCM 60%m, 20%o, 20%g	2.651
174.00	GO 90%o, 10%g	2.441
0.00	693' GIP	0.000

Total Length: 1682.00 ft Total Volume: 22.485 bbl

Num Fluid Samples: 0

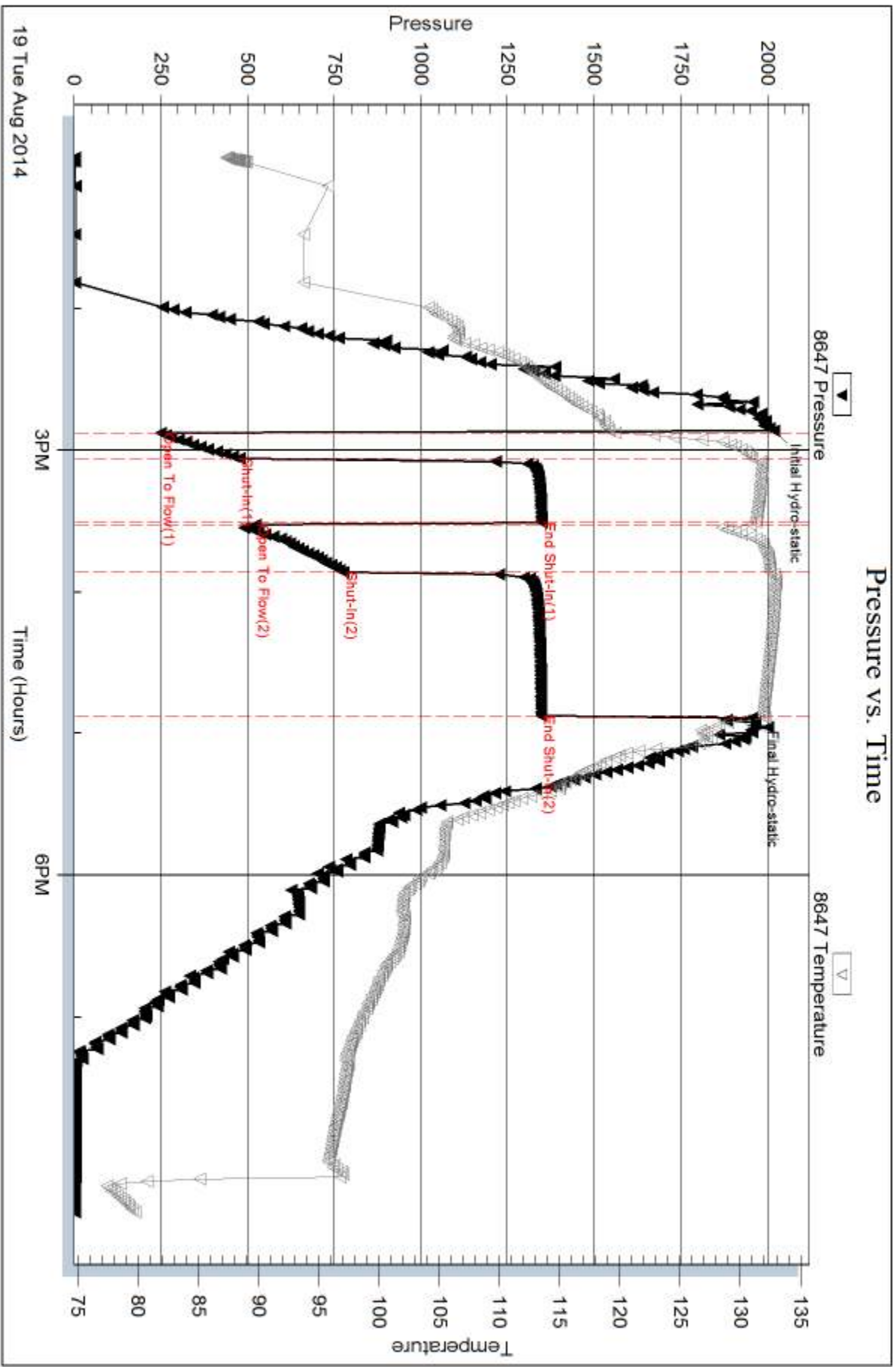
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 43 @ 95 corrected 46

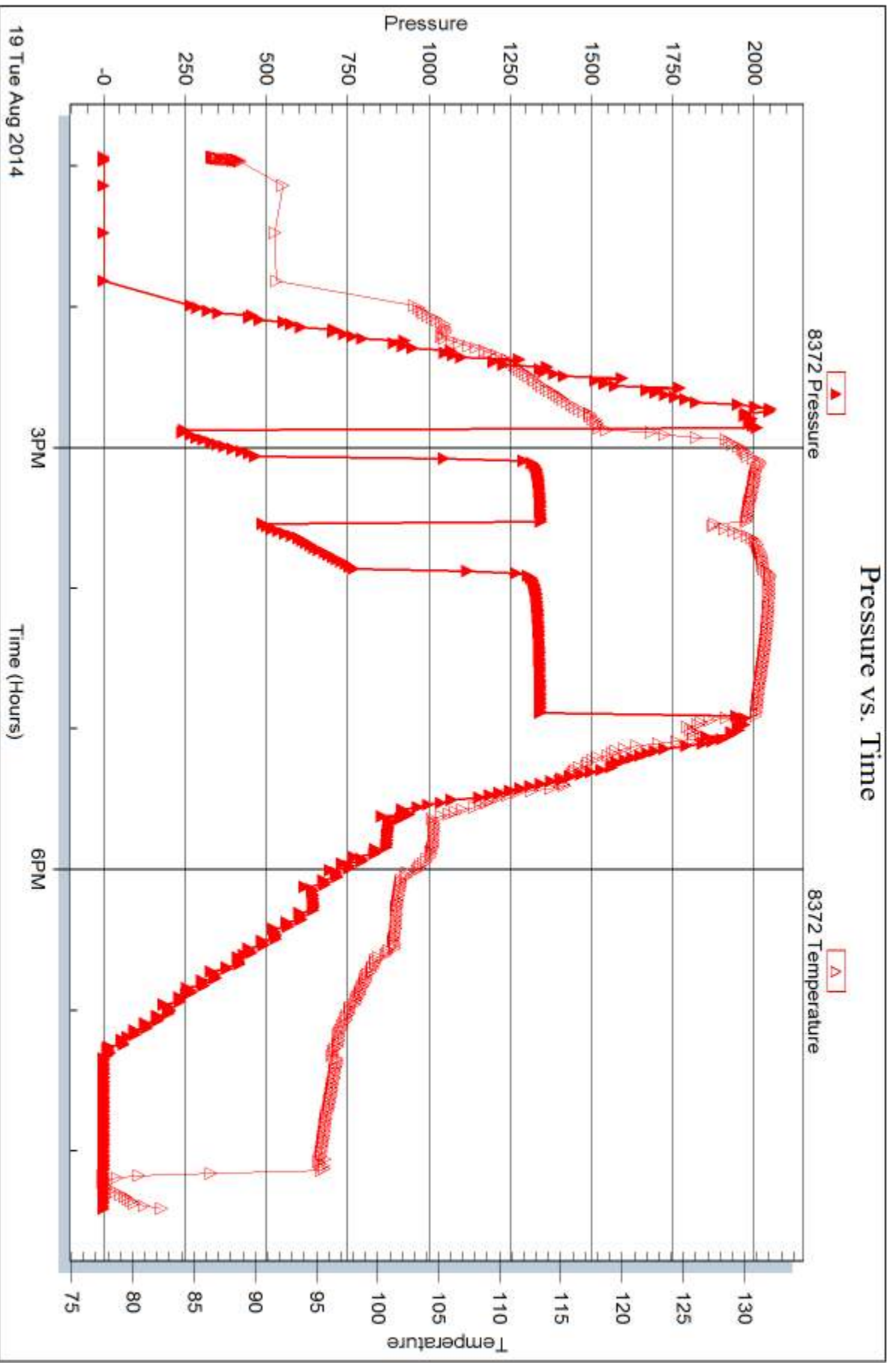


Serial #: 8372

Outside Carmen Schnitt, Inc.

Depe #1-12

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 58375

Printed: 2014.08.22 @ 15:37:59



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Larry Nicholson

Depe #1-12

12-7s-32w Thomas,KS

Start Date: 2014.08.20 @ 18:07:00

End Date: 2014.08.20 @ 23:22:00

Job Ticket #: 60751 DST #: 5

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

Printed: 2014.08.22 @ 15:36:44



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 60751

DST#: 5

ATTN: Larry Nicholson

Test Start: 2014.08.20 @ 18:07:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:02:30

Time Test Ended: 23:22:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 4257.00 ft (KB) To 4354.00 ft (KB) (TVD)

Reference Elevations: 2996.00 ft (KB)

Total Depth: 4354.00 ft (KB) (TVD)

2991.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 29.36 psig @ 4258.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.20

End Date:

2014.08.20

Last Calib.:

2014.08.20

Start Time: 18:07:01

End Time:

23:22:00

Time On Btm:

2014.08.20 @ 20:01:30

Time Off Btm:

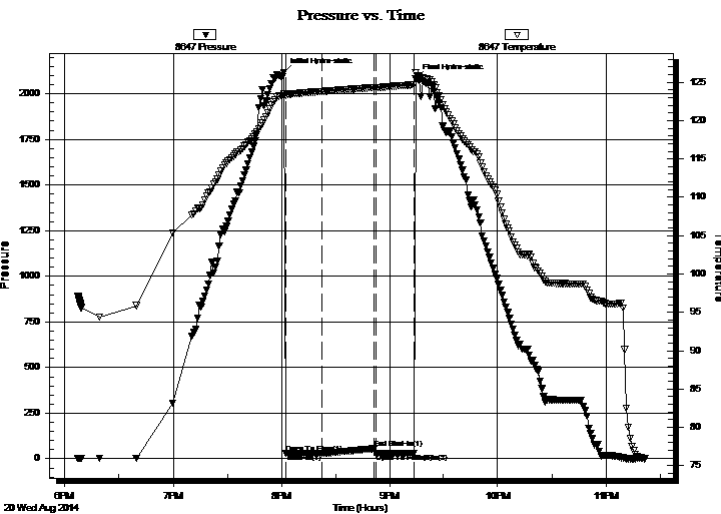
2014.08.20 @ 21:14:30

TEST COMMENT: 20 - IF - Opened w/ surface blow , built to 1/4"

30 - ISI - No Return

20- FF- No Blow

--



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2116.98	123.45	Initial Hydro-static
1	30.69	123.21	Open To Flow (1)
21	29.36	123.79	Shut-In(1)
50	55.47	124.32	End Shut-In(1)
51	31.56	124.31	Open To Flow (2)
72	31.50	124.67	Shut-In(2)
73	2080.86	126.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% m w / oil spots in tool	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 60751

DST#: 5

ATTN: Larry Nicholson

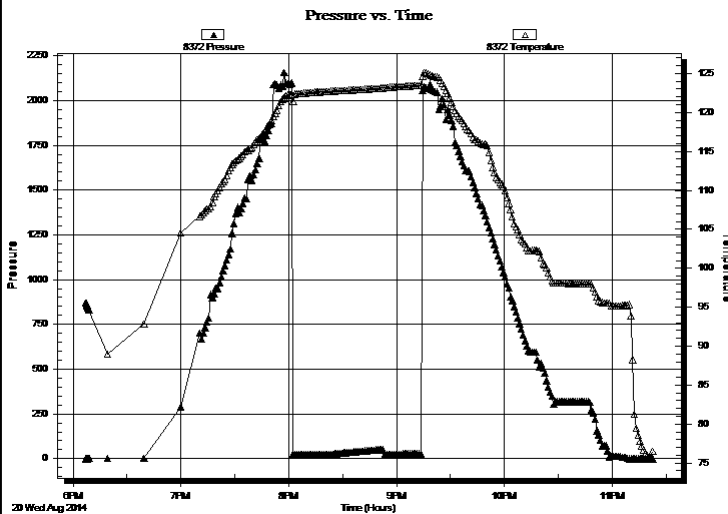
Test Start: 2014.08.20 @ 18:07:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 20:02:30
 Tester: Brandon Quintana
 Time Test Ended: 23:22:00
 Unit No: 48
 Interval: **4257.00 ft (KB) To 4354.00 ft (KB) (TVD)**
 Reference Elevations: 2996.00 ft (KB)
 Total Depth: 4354.00 ft (KB) (TVD)
 2991.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8372 Outside
 Press@RunDepth: psig @ 4258.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.20 End Date: 2014.08.20 Last Calib.: 2014.08.20
 Start Time: 18:07:01 End Time: 23:23:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 20 - IF - Opened w/ surface blow , built to 1/4"
 30 - ISI - No Return
 20- FF- No Blow
 --



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% m w / oil spots in tool	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 60751

DST#: 5

ATTN: Larry Nicholson

Test Start: 2014.08.20 @ 18:07:00

Tool Information

Drill Pipe:	Length: 4124.00 ft	Diameter: 3.80 inches	Volume: 57.85 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.79 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.79 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4257.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	97.00 ft			
Tool Length:	125.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			4230.00	
Shut In Tool	5.00			4235.00	
Hydraulic tool	5.00		Inside	4240.00	
Jars	5.00			4245.00	
Safety Joint	3.00			4248.00	
Packer	5.00			4253.00	28.00 Bottom Of Top Packer
Packer	4.00			4257.00	
Stubb	1.00			4258.00	
Recorder	0.00	8647	Inside	4258.00	
Recorder	0.00	8372	Outside	4258.00	
Perforations	27.00			4285.00	
Change Over Sub	1.00			4286.00	
Drill Pipe	64.00			4350.00	
Change Over Sub	1.00			4351.00	
Bullnose	3.00			4354.00	97.00 Bottom Packers & Anchor

Total Tool Length: 125.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 60751

DST#: 5

ATTN: Larry Nicholson

Test Start: 2014.08.20 @ 18:07:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% m w / oil spots in tool	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

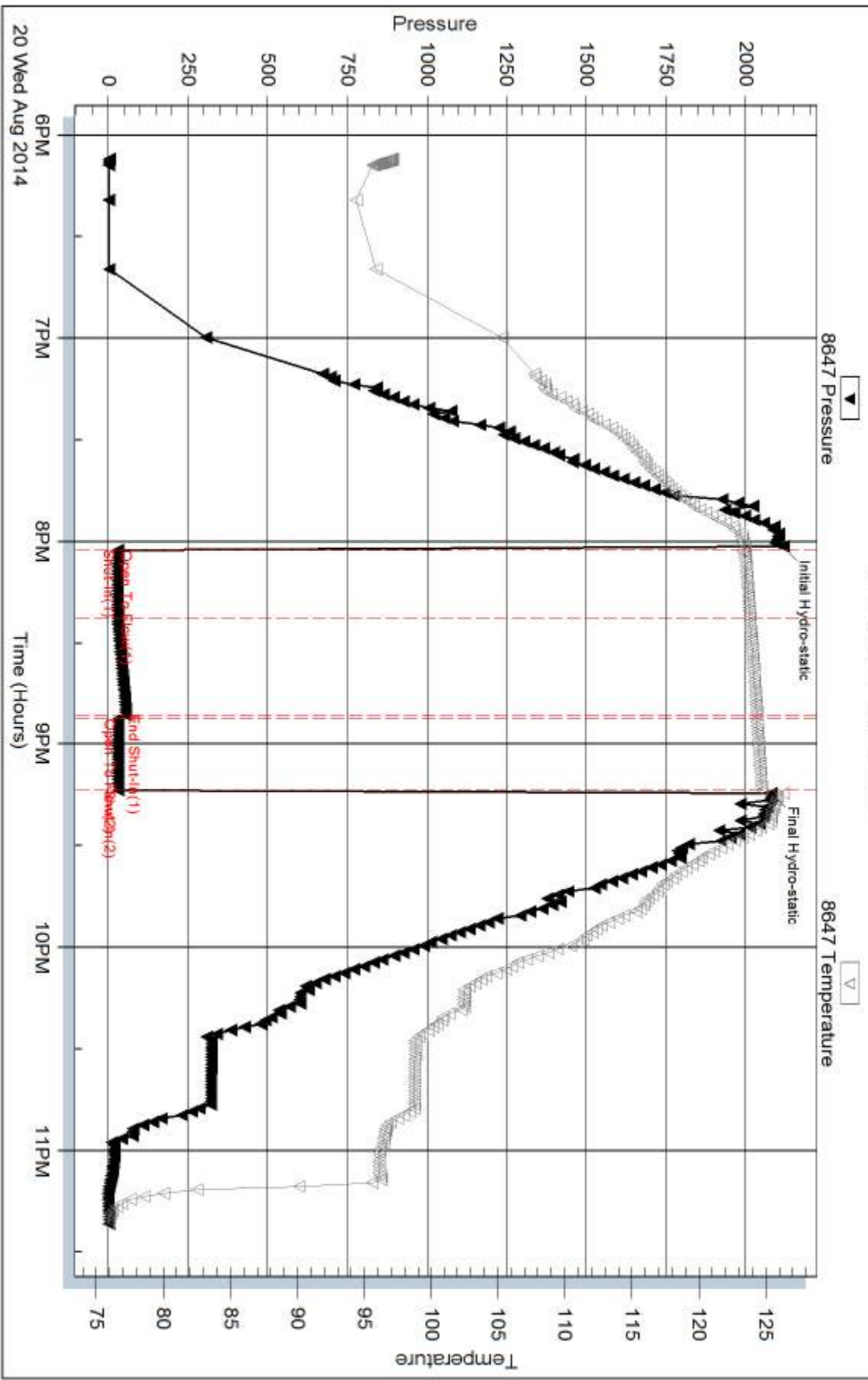
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

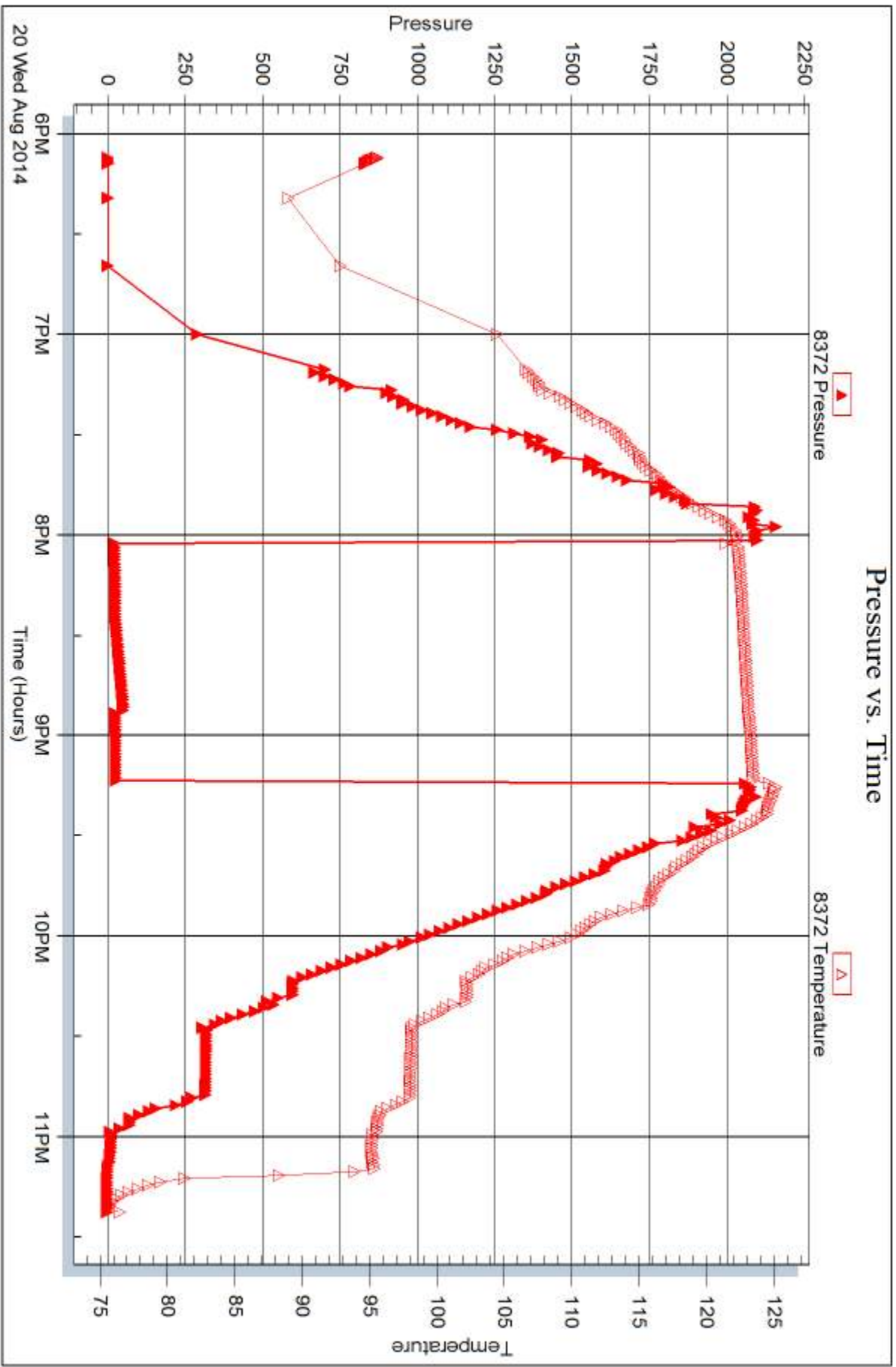


Serial #: 8372

Outside Carmen Schmitt, Inc.

Depe #1-12

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 60751

Printed: 2014.08.22 @ 15:36:59



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Larry Nicholson

Depe #1-12

12-7s-32w Thomas,KS

Start Date: 2014.08.21 @ 09:45:00

End Date: 2014.08.21 @ 16:21:30

Job Ticket #: 60752 DST #: 6

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

Printed: 2014.08.22 @ 15:35:43



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 60752

DST#: 6

ATTN: Larry Nicholson

Test Start: 2014.08.21 @ 09:45:00

GENERAL INFORMATION:

Formation: **Ft Scott & Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:41:30

Time Test Ended: 16:21:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 4356.00 ft (KB) To 4431.00 ft (KB) (TVD)

Reference Elevations: 2996.00 ft (KB)

Total Depth: 4431.00 ft (KB) (TVD)

2991.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 161.57 psig @ 4357.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.21

End Date: 2014.08.21

Last Calib.: 2014.08.21

Start Time: 09:45:01

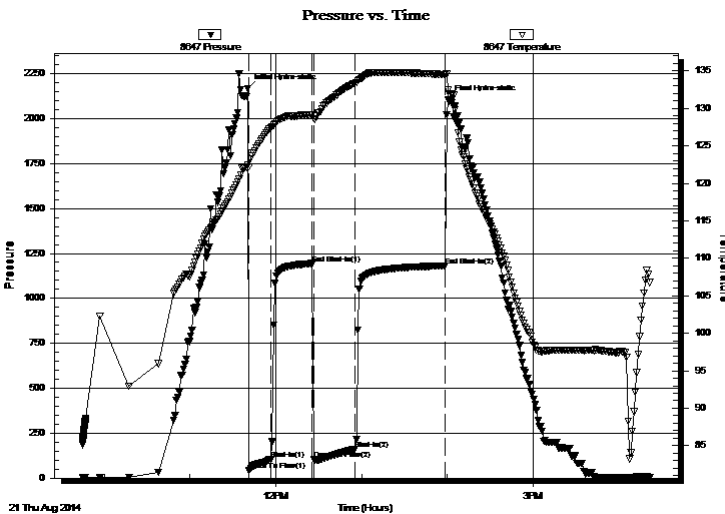
End Time: 16:21:30

Time On Btm: 2014.08.21 @ 11:40:30

Time Off Btm: 2014.08.21 @ 14:00:30

TEST COMMENT: 15 - IF - Opened w/ surface blow , built to B.o.B in 7 min.
30 - ISI - Return built to 3" in 30 min.
30 - FF - Opened w/ surface blow , built to B.o.B in 7 min.
60 - FSI - Return built to B.o.B in the 60 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2165.67	122.47	Initial Hydro-static
1	43.75	122.24	Open To Flow (1)
16	102.66	127.45	Shut-In(1)
45	1194.19	129.20	End Shut-In(1)
46	105.90	128.63	Open To Flow (2)
75	161.57	133.36	Shut-In(2)
138	1181.33	134.51	End Shut-In(2)
140	2104.17	132.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
173.00	GMCO 47%o, 27%g, 26%m	1.32
148.00	100%CO	2.08
0.00	630' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 60752

DST#: 6

ATTN: Larry Nicholson

Test Start: 2014.08.21 @ 09:45:00

Tool Information

Drill Pipe:	Length: 4220.00 ft	Diameter: 3.80 inches	Volume: 59.20 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.79 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.79 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4356.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4329.00	
Shut In Tool	5.00			4334.00	
Hydraulic tool	5.00		Inside	4339.00	
Jars	5.00			4344.00	
Safety Joint	3.00			4347.00	
Packer	5.00			4352.00	28.00 Bottom Of Top Packer
Packer	4.00			4356.00	
Stubb	1.00			4357.00	
Recorder	0.00	8647	Inside	4357.00	
Recorder	0.00	8372	Outside	4357.00	
Perforations	37.00			4394.00	
Change Over Sub	1.00			4395.00	
Drill Pipe	32.00			4427.00	
Change Over Sub	1.00			4428.00	
Bullnose	3.00			4431.00	75.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 60752

DST#: 6

ATTN: Larry Nicholson

Test Start: 2014.08.21 @ 09:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
173.00	GMCO 47%o, 27%g, 26%m	1.317
148.00	100%CO	2.076
0.00	630' GIP	0.000

Total Length: 321.00 ft Total Volume: 3.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

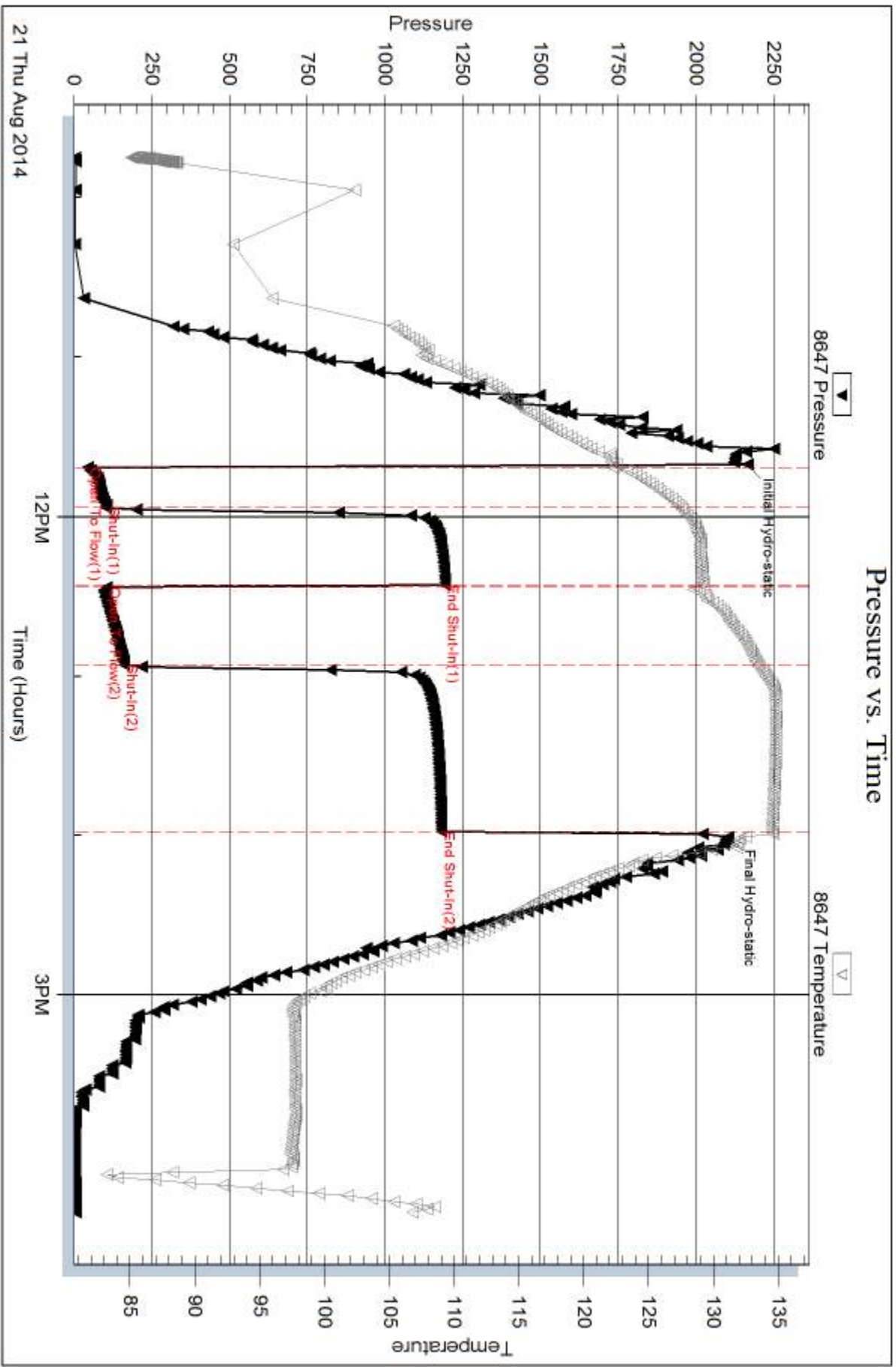
Serial #:

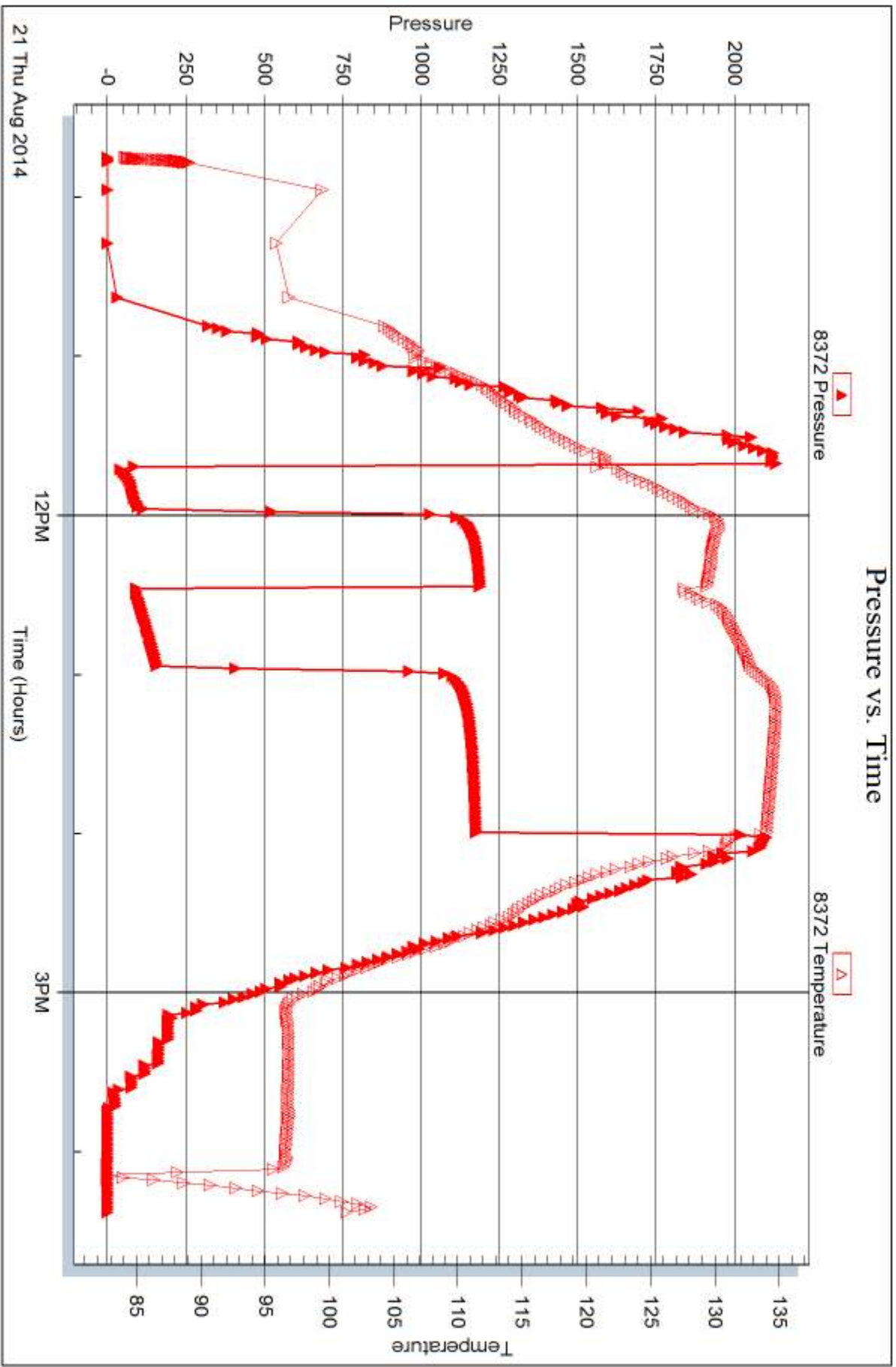
Laboratory Name:

Laboratory Location:

Recovery Comments: **Gravity 35 @ 100 Corrected = 39

**GIP = 630







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Larry Nicholson

Depe #1-12

12-7s-32w Thomas,KS

Start Date: 2014.08.22 @ 01:21:00

End Date: 2014.08.22 @ 07:39:30

Job Ticket #: 60753 DST #: 7

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

Printed: 2014.08.22 @ 15:34:37

Carmen Schmitt, Inc.
12-7s-32w Thomas,KS
Depe #1-12
DST # 7
Lower Cherokee
2014.08.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 60753

DST#: 7

ATTN: Larry Nicholson

Test Start: 2014.08.22 @ 01:21:00

GENERAL INFORMATION:

Formation: **Lower Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:39:30
 Time Test Ended: 07:39:30
 Interval: **4434.00 ft (KB) To 4489.00 ft (KB) (TVD)**
 Total Depth: 4489.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Quintana
 Unit No: 48
 Reference Elevations: 2996.00 ft (KB)
 2991.00 ft (CF)
 KB to GR/CF: 5.00 ft

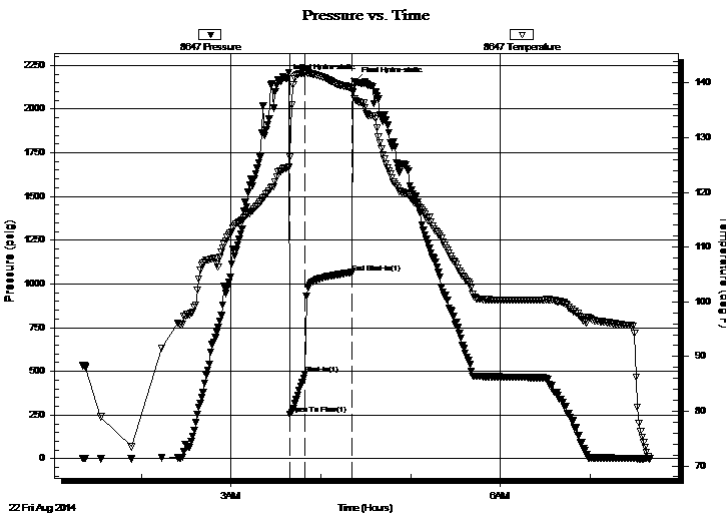
Serial #: 8647

Inside

Press@RunDepth: 484.30 psig @ 4435.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.22 End Date: 2014.08.22 Last Calib.: 2014.08.22
 Start Time: 01:21:01 End Time: 07:39:30 Time On Btm: 2014.08.22 @ 03:37:30
 Time Off Btm: 2014.08.22 @ 04:22:30

TEST COMMENT: 10 - IF - Opened w/ surface blow , built to B.o.B in 1 min.
 30 - ISI - Return built to 1 1/2" in 15 min.
 Not Ran - FF
 Not Ran - FSI

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.79	124.46	Initial Hydro-static
2	253.82	126.44	Open To Flow (1)
12	484.30	141.80	Shut-In(1)
43	1065.37	139.13	End Shut-In(1)
45	2155.79	137.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
689.00	MW 90%w , 10%m w / oil spots in tool	8.56
262.00	WM 72%m, 28%w w / oil spots	3.68

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 60753

DST#: 7

ATTN: Larry Nicholson

Test Start: 2014.08.22 @ 01:21:00

GENERAL INFORMATION:

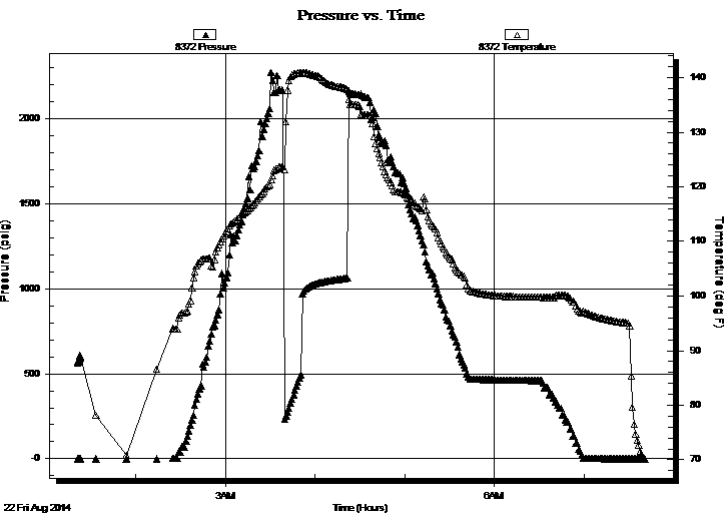
Formation: **Lower Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:39:30
 Time Test Ended: 07:39:30
 Interval: **4434.00 ft (KB) To 4489.00 ft (KB) (TVD)**
 Total Depth: 4489.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Quintana
 Unit No: 48
 Reference Elevations: 2996.00 ft (KB)
 2991.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8372

Outside

Press@RunDepth: psig @ 4435.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.22 End Date: 2014.08.22 Last Calib.: 2014.08.22
 Start Time: 01:21:01 End Time: 07:41:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10 - IF - Opened w/ surface blow , built to B.o.B in 1 min.
 30 - ISI - Return built to 1 1/2" in 15 min.
 Not Ran - FF
 Not Ran - FSI



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
689.00	MW 90%w , 10%m w / oil spots in tool	8.56
262.00	WM 72%m, 28%w w / oil spots	3.68

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 60753

DST#: 7

ATTN: Larry Nicholson

Test Start: 2014.08.22 @ 01:21:00

Tool Information

Drill Pipe:	Length: 4316.00 ft	Diameter: 3.80 inches	Volume: 60.54 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.79 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.79 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4434.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4407.00	
Shut In Tool	5.00			4412.00	
Hydraulic tool	5.00		Inside	4417.00	
Jars	5.00			4422.00	
Safety Joint	3.00			4425.00	
Packer	5.00			4430.00	28.00 Bottom Of Top Packer
Packer	4.00			4434.00	
Stubb	1.00			4435.00	
Recorder	0.00	8647	Inside	4435.00	
Recorder	0.00	8372	Outside	4435.00	
Perforations	17.00			4452.00	
Change Over Sub	1.00			4453.00	
Drill Pipe	32.00			4485.00	
Change Over Sub	1.00			4486.00	
Bullnose	3.00			4489.00	55.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

PO Box 47
Great Bend, KS 67530

Depe #1-12

Job Ticket: 60753

DST#: 7

ATTN: Larry Nicholson

Test Start: 2014.08.22 @ 01:21:00

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:

52000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
689.00	MW 90%w , 10%m w / oil spots in tool	8.555
262.00	WM 72%m, 28%w w / oil spots	3.675

Total Length: 951.00 ft Total Volume: 12.230 bbl

Num Fluid Samples: 0

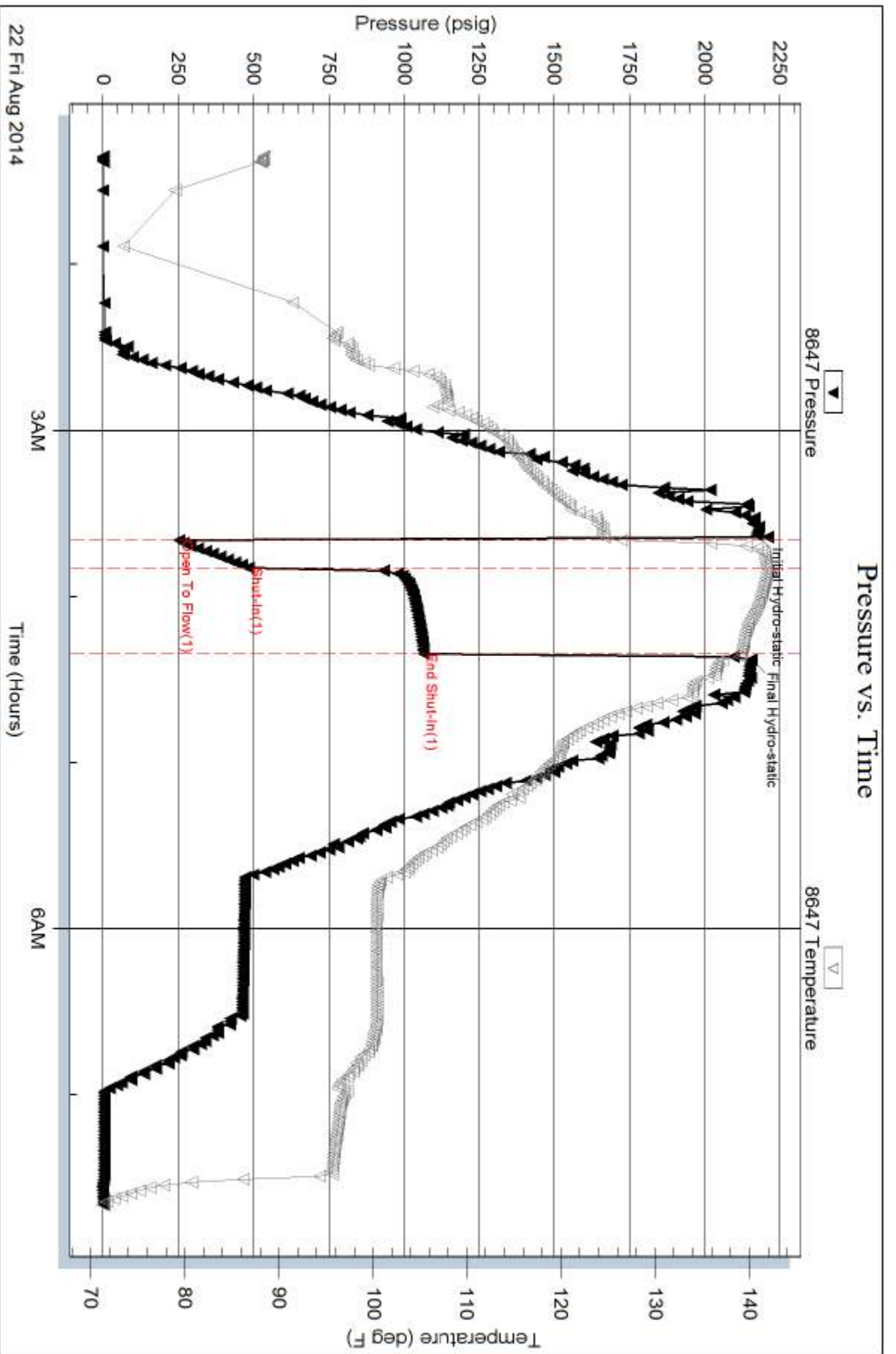
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .186 @ 64.3F chlorides 52000ppm

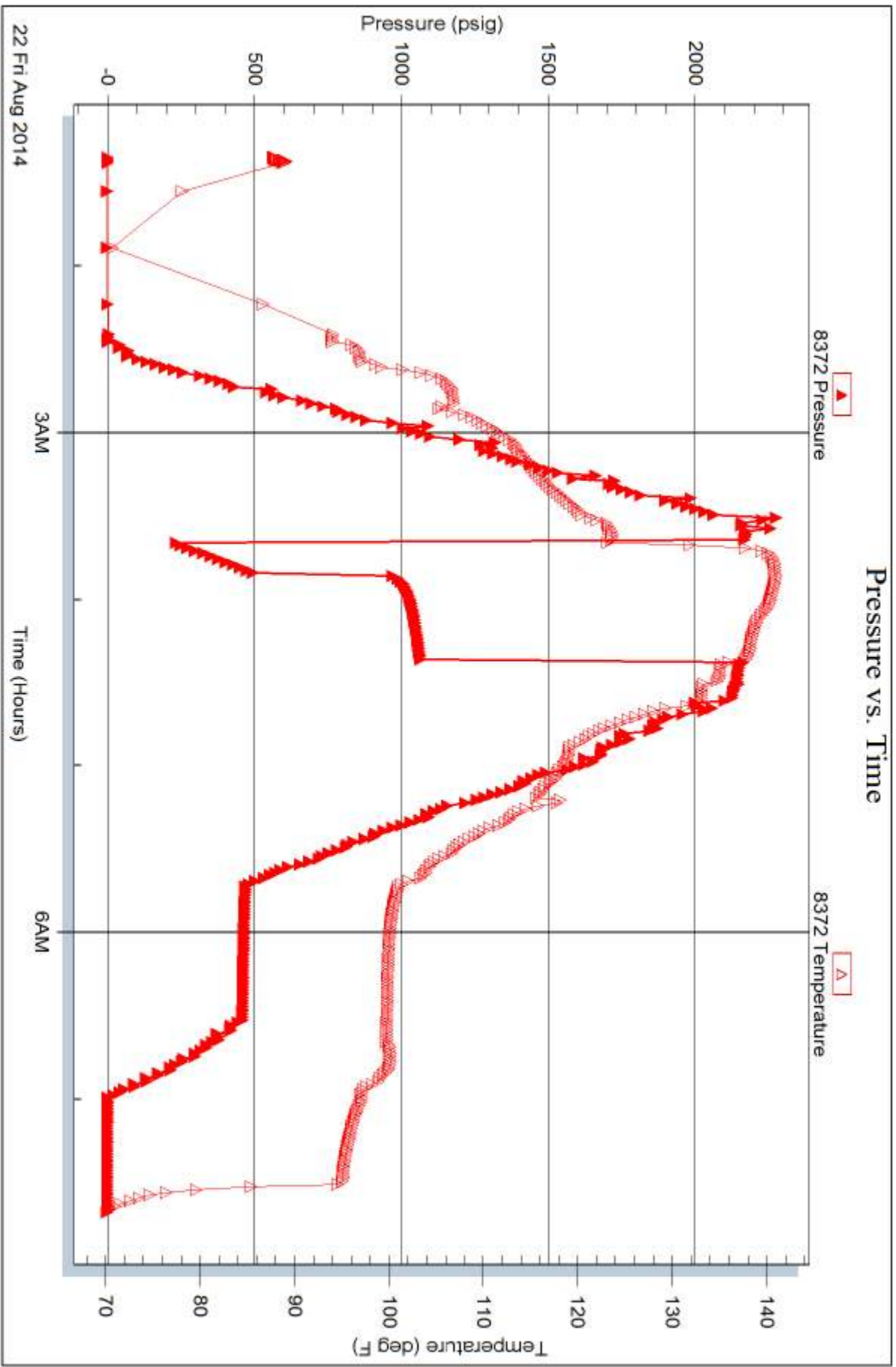


Serial #: 8372

Outside Carmen Schnitt, Inc.

Depe #1-12

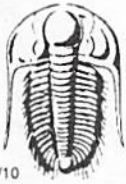
DST Test Number: 7



Trilobite Testing, Inc

Ref. No: 60753

Printed: 2014.08.22 @ 15:34:42



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58372

Well Name & No. Depe #1-12 Test No. 1 Date 8-16-14
 Company Carmen Schmitt, Inc. Elevation 2996 KB 2991 GL
 Address P.O. Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Larry Nicholson Rig WW #8
 Location: Sec. 12 Twp. 7S Rge. 32W Co. Thomas State KS

Interval Tested 3725 - 3766 Zone Tested Howard/Topeka
 Anchor Length 41' Drill Pipe Run 3582 Mud Wt. 8.8
 Top Packer Depth 3720 Drill Collars Run 121.79 Vis 48
 Bottom Packer Depth 3725 Wt. Pipe Run - WL 6.4
 Total Depth 3766 Chlorides 1000 ppm System LCM 1

Blow Description IF-Opened w/ surface blow, built to 4 1/4"
ISI- No Return
FF- No Blow
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>132</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 132 BHT 119 Gravity API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 1799 Test 1150 T-On Location 7:55 PM
 (B) First Initial Flow 54 Jars 250 T-Started 8:57 PM
 (C) First Final Flow 77 Safety Joint 75 T-Open 10:48 PM
 (D) Initial Shut-In 1124 Circ Sub _____ T-Pulled 1:18 AM
 (E) Second Initial Flow 81 Hourly Standby _____ T-Out 2:45 AM
 (F) Second Final Flow 83 Mileage 80 R.T. 124 Comments _____
 (G) Final Shut-In 1102 Sampler _____
 (H) Final Hydrostatic 1779 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 15 Day Standby _____ Sub Total 0
 Initial Shut-In 30 Accessibility _____ Total 1849.00
 Final Flow 45 Sub Total 1849.00 MP/DST Disc't _____
 Final Shut-In 60

Approved By L. Nichol Our Representative Bud Oit
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58373

Well Name & No. Depe #1-12 Test No. 2 Date 8-17-14
 Company Carmen Schmitt, Inc. Elevation 2996 KB 2991 GL
 Address P.O. Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Larry Nicholson Rig WW #8
 Location: Sec. 12 Twp. 7S Rge. 32W Co. Thomas State KS

Interval Tested 3784-3881 (3792-3887) Zone Tested DST #2 - No Specified Zone
 Anchor Length 3785 97' 3882 ⇒ 7' down Drill Pipe Run 3640 Mud Wt. 9.1
 Top Packer Depth 3779 Drill Collars Run 121.79 Vis 49
 Bottom Packer Depth 3784 Wt. Pipe Run — WL 7.2
 Total Depth 3881 Chlorides 1500 ppm System LCM 1
 Blow Description IF- Opened w/ surface blow, built to B.O.B in 2 min
ISI- No Return
FF- Opened w/ surface blow, built to B.O.B in 2 min.
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>26315</u>	<u>Mud w/ oil spots</u>			<u>100</u>	
<u>189</u>	<u>WM w/ oil spots</u>			<u>40</u>	<u>60</u>
<u>439</u>	<u>MW w/ oil spots</u>			<u>90</u>	<u>10</u>

Rec Total 943 BHT 124 Gravity _____ API RW .198 @ 75.3 °F Chlorides 38,000 ppm

(A) Initial Hydrostatic <u>1836</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>3:07 PM</u>
(B) First Initial Flow <u>151</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>3:56 PM</u>
(C) First Final Flow <u>289</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:28 PM</u>
(D) Initial Shut-In <u>1203</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>6:48 PM</u>
(E) Second Initial Flow <u>313</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>8:46 PM</u>
(F) Second Final Flow <u>446</u>	<input checked="" type="checkbox"/> Mileage <u>80 R.T. 124</u>	Comments _____
(G) Final Shut-In <u>1188</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1775</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>10</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>10</u>	<input type="checkbox"/> Day Standby _____	Total <u>1849.00</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1849</u>	

Approved By _____

Our Representative Bud O't

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58374

Well Name & No. Depe #1-12 Test No. 3 Date 8-18-14
 Company Carmen Schmitt, Inc. Elevation 2996 KB 2991 GL
 Address P.O. Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Larry Nicholson Rig WW #8
 Location: Sec. 12 Twp. 7S Rge. 32W Co. Thomas State KS

Interval Tested 3925 - 3986 Zone Tested Toronto + LKC 'A'
 Anchor Length 61' Drill Pipe Run 3806 Mud Wt. 9.1
 Top Packer Depth 3920 Drill Collars Run 121.79 Vis 55
 Bottom Packer Depth 3925 Wt. Pipe Run — WL 6.4
 Total Depth 3986 Chlorides 2400 ppm System LCM 1
 Blow Description DF - Opened w/ surface blow, built to B.O.B in 2min.
ISI - Return built to '1/2", died back to '1/4"
FF - Opened w/ surface blow, built to B.O.B in 2min.
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
189	OCM		20		80
756	WOCM		17.5	57.5	25
189	WMCO		20	70	10
185	WMCO		70	20	10

Rec Total 1319 BHT 129 Gravity 27 API RW .123 @ 99.6 °F Chlorides 48,000 ppm
 Test 1150 T-On Location 8:35 AM
 Jars 250 T-Started ~~12:24 PM~~ 9:45 AM
 Safety Joint 75 T-Open 12:24 PM
 Circ Sub _____ T-Pulled 2:04 PM
 Hourly Standby _____ T-Out 4:53 PM
 Mileage 80 R.T 124 Comments _____
 Sampler _____
 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1849.00
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1849

Approved By [Signature]

Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58375

Well Name & No. Depe #1-12 Test No. 4 Date 8-19-14
 Company Carmen Schmitt, Inc. Elevation 2996 KB 2991 GL
 Address P.O. Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Larry Nicholson Rig WW #8
 Location: Sec. 12 Twp. 7S Rge. 32W Co. Thomas State KS

Interval Tested 4077-4164 Zone Tested LKC "H-J"
 Anchor Length 87' Drill Pipe Run 3935 Mud Wt. 9.1
 Top Packer Depth 4072 Drill Collars Run 121.79 Vis SS
 Bottom Packer Depth 4077 Wt. Pipe Run — WL 6.4
 Total Depth 4164 Chlorides 2400 ppm System LCM 1

Blow Description IF- B.o.B in 1min. + a half
ISI- Return built to Tin. over the 30 min.
FF- B.o.B in 1min. + a half
FSI- B.o.B in 6 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>174</u>	<u>GO</u>	<u>10</u>	<u>90</u>		
<u>189</u>	<u>GOCM</u>	<u>20</u>	<u>20</u>		<u>60</u>
<u>1134</u>	<u>GWDM GWMCO</u>	<u>37</u>	<u>41</u>	<u>16</u>	<u>12</u>
<u>185</u>	<u>GWO</u>	<u>60</u>	<u>30</u>	<u>10</u>	
<u>-693</u>	<u>GIP</u>	<u>100</u>			

Rec Total 1682 BHT 131 Gravity 46 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2019 Test 1250 T-On Location 12:05 PM
 (B) First Initial Flow 250 Jars 250 T-Started 12:56 PM
 (C) First Final Flow 476 Safety Joint 75 T-Open 2:52 PM
 (D) Initial Shut-In 1348 Circ Sub — T-Pulled 4:52 PM
 (E) Second Initial Flow 523 Hourly Standby — T-Out 8:25 PM
 (F) Second Final Flow 776 Mileage 80 R.T. 124 Comments —
 (G) Final Shut-In 1348 Sampler —
 (H) Final Hydrostatic 1955 Straddle — Ruined Shale Packer —
 Shale Packer 250 Ruined Packer —
 Extra Packer — Extra Copies —
 Initial Open 10 Extra Recorder — Sub Total 0
 Initial Shut-In 30 Day Standby — Total 1949.00
 Final Flow 20 Accessibility — MP/DST Disc't —
 Final Shut-In 60 Sub Total 1949

Approved By [Signature] Our Representative Bud Ot

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **60751**

Well Name & No. Depe #1-12 Test No. 5 Date 8-20-14
 Company Carmen Schmitt, Inc. Elevation 2996 KB 2991 GL
 Address P.O. Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Larry Nicholson Rig WW #8
 Location: Sec. 12 Twp. 7S Rge. 32W Co. Thomas State KS

Interval Tested 4257 - 4354 Zone Tested Pawnee
 Anchor Length 97' Drill Pipe Run 4124 Mud Wt. 9.2
 Top Packer Depth 4252 Drill Collars Run 121.79 Vis 56
 Bottom Packer Depth 4257 Wt. Pipe Run — WL 6.4
 Total Depth 4354 Chlorides 2200 ppm System LCM 1
 Blow Description IF- Opened w/ surface blow, built to 1/4"
ISI- No Return
FF- No Blow
FSI- Not Ran

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud w/ oil spots in tool</u>			<u>100</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 5 BHT 124 Gravity 1250 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2116 Test 1250 T-On Location 5:00 PM
 (B) First Initial Flow 30 Jars 250 T-Started 6:07 PM
 (C) First Final Flow 29 Safety Joint 75 T-Open 8:02 PM
 (D) Initial Shut-In 55 Circ Sub — T-Pulled 9:12 PM
 (E) Second Initial Flow 31 Hourly Standby — T-Out 11:23 PM
 (F) Second Final Flow — Mileage 80 R.T. 124 Comments —
 (G) Final Shut-In — Sampler —
 (H) Final Hydrostatic 2080 Straddle —
 Shale Packer 250 Ruined Shale Packer —
 Extra Packer — Ruined Packer —
 Extra Recorder — Extra Copies —
 Day Standby — Sub Total 0
 Accessibility — Total 1949.00
 Sub Total 1949.00 MP/DST Disc't —

Initial Open 20
 Initial Shut-In 30
 Final Flow 26
 Final Shut-In —
 Approved [Signature] Our Representative Bud Oitz

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60752

Well Name & No. Depe #1-12 Test No. 6 Date 8-21-14
 Company Carmen Schmitt, Inc. Elevation 2996 KB 2991 GL
 Address P.O. Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Larry Nicholson Rig WW #8
 Location: Sec. 12 Twp. 7s Rge. 32W Co. Thomas State KS

Interval Tested 4356-4431 Zone Tested DST #6 ~~No Specified Zone Ft Scott + Cherokee~~
 Anchor Length 75' Drill Pipe Run 4220 Mud Wt. 9.2
 Top Packer Depth 4351 Drill Collars Run 121.79 Vis 56
 Bottom Packer Depth 4356 Wt. Pipe Run — WL 6.4
 Total Depth 4431 Chlorides 2200 ppm System LCM 1

Blow Description IF - Opened w/ surface blow, built to B.o.B in 7 min.
ISI - Return built to 3" over 30 min.
FF - Opened w/ surface blow, built to B.o.B in 7 min.
FSI - Return built to B.o.B over the 60 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>148</u>	<u>CO</u>		<u>100%</u>		
<u>173</u>	<u>GMCO</u>	<u>27%</u>	<u>47%</u>		<u>26%</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>630</u>	<u>GIP</u>	<u>100%</u>			
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total 321 BHT 134 Gravity 39 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 2165 Test 1250 T-On Location 9:20 AM
 (B) First Initial Flow 43 Jars 250 T-Started 9:45 AM
 (C) First Final Flow 102 Safety Joint 75 T-Open 11:42 AM
 (D) Initial Shut-In 1194 Circ Sub T-Pulled 1:57 PM
 (E) Second Initial Flow 105 Hourly Standby T-Out 4:23 PM
 (F) Second Final Flow 161 Mileage 80 R.T. 124 Comments
 (G) Final Shut-In 1181 Sampler
 (H) Final Hydrostatic 2104 Straddle
 Shale Packer 250 Ruined Shale Packer
 Extra Packer Ruined Packer
 Extra Recorder Extra Copies
 Initial Open 15 Day Standby Sub Total 0
 Initial Shut-In 30 Accessibility Total 1949.00
 Final Flow 30 Sub Total 1949 MP/DST Disc't
 Final Shut-In 100

Approved By Our Representative Bud Pitt

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60753

Well Name & No. Depe # 1-12 Test No. 7 Date 8-22-14
 Company Carmen Schmitt, Inc. Elevation 2996 KB 2991 GL
 Address P.O. Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Larry Nicholson Rig WW #8
 Location: Sec. 12 Twp. 7S Rge. 32W Co. Thomas State KS

Interval Tested 4434-4489 Zone Tested Lower Cherokee
 Anchor Length 55 Drill Pipe Run 4316 Mud Wt. 9.2
 Top Packer Depth 4429 Drill Collars Run 121.79 Vis 54
 Bottom Packer Depth 4434 Wt. Pipe Run — WL 6.4
 Total Depth 4489 Chlorides 2000 ppm System LCM 1
 Blow Description IF- Opened w/ surface blow, built to B.o.B in 1 min
ISI- Return built to 1 1/2" in 15 min.

Rec	Feet of	w/	%gas	%oil	%water	%mud
<u>262</u>	<u>WM</u>	<u>w/ oil spots</u>		<u>28</u>	<u>72</u>	
<u>689</u>	<u>MW</u>	<u>w/ oil spots in tool</u>		<u>90</u>	<u>10</u>	

Rec Total 951 BHT 139 Gravity — API RW .186 @ 64.3 °F Chlorides 52,000 ppm

(A) Initial Hydrostatic <u>2173</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:45 AM</u>
(B) First Initial Flow <u>253</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1:21 AM</u>
(C) First Final Flow <u>484</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:39 AM</u>
(D) Initial Shut-In <u>1065</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>4:19 AM</u>
(E) Second Initial Flow <u>—</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>7:41 AM</u>
(F) Second Final Flow <u>—</u>	<input checked="" type="checkbox"/> Mileage <u>80 R.T. 124</u>	Comments <u>—</u>
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>2155</u>	<input type="checkbox"/> Straddle <u>—</u>	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Open <u>10</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Flow <u>—</u>	<input type="checkbox"/> Day Standby <u>—</u>	Sub Total <u>0</u>
Final Shut-In <u>—</u>	<input type="checkbox"/> Accessibility <u>—</u>	Total <u>1949.00</u>
	Sub Total <u>1949</u>	MP/DST Disc't <u>—</u>

Approved By [Signature] Our Representative Burd Pitt

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Pioneer Energy Services

Dual Induction Log

15-193-20,930-00-00

API No.

Company **Carmen Schmitt, Inc.**

Well **Depe #1-12**

Field **Wildcat**

County **Thomas** State

Kansas

Location
SE SW NE NW
1212' FNL & 1663' FWL

Other Services
CNL/CDL
MEL/BHCS

Sec: 12 Twp: 7S Rge: 32W

Permanent Datum Ground Level Elevation 2991
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2996
D.F.
G.L. 2991

Date 8/22/2014

Run Number One

Depth Driller 4610

Depth Logger 4614

Bottom Logged Interval 4613

Top Log Interval 250

Casing Driller 8.625 @ 260

Casing Logger 260

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3000

Density / Viscosity 9.2 53

pH / Fluid Loss 11.0 6.4

Source of Sample Flowline

Rm @ Meas. Temp 0.70 @ 84

Rmf @ Meas. Temp 0.53 @ 84

Rmc @ Meas. Temp 0.95 @ 84

Source of Rmf / Rmc Charts

Rm @ BHT 0.48 @ 122

Operating Rig Time 5 Hours

Max Rec. Temp. F 122

Equipment Number 15

Location Hays

Recorded By D.Kerr

Witnessed By Larry Nicholson

<<< 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 Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858

Oakley KS North on HWY 83 to HWY 24,
 4 NorthEast to 30 RD, 1 North, East and North Into

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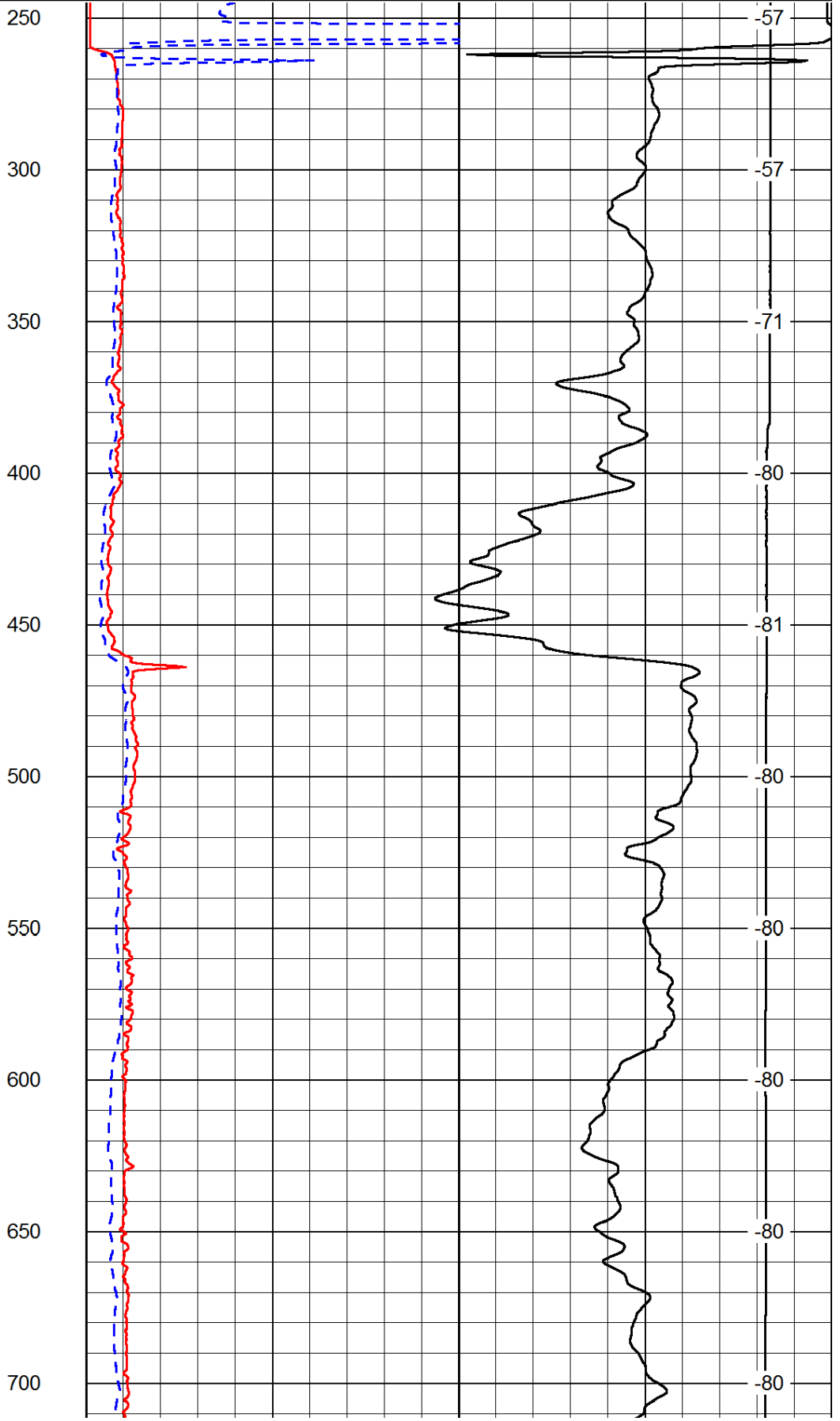
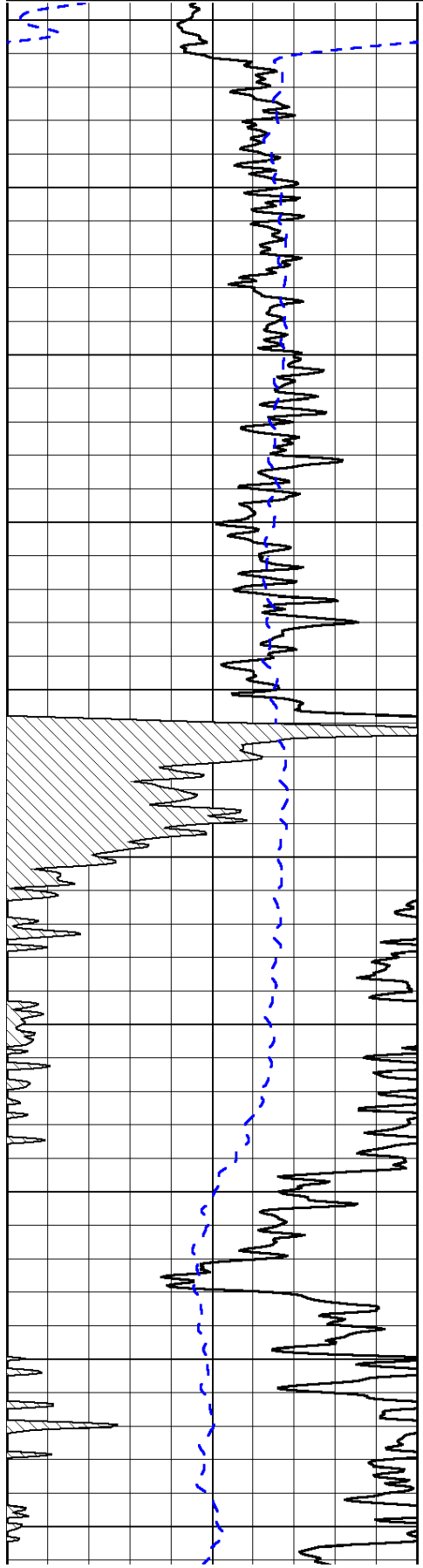
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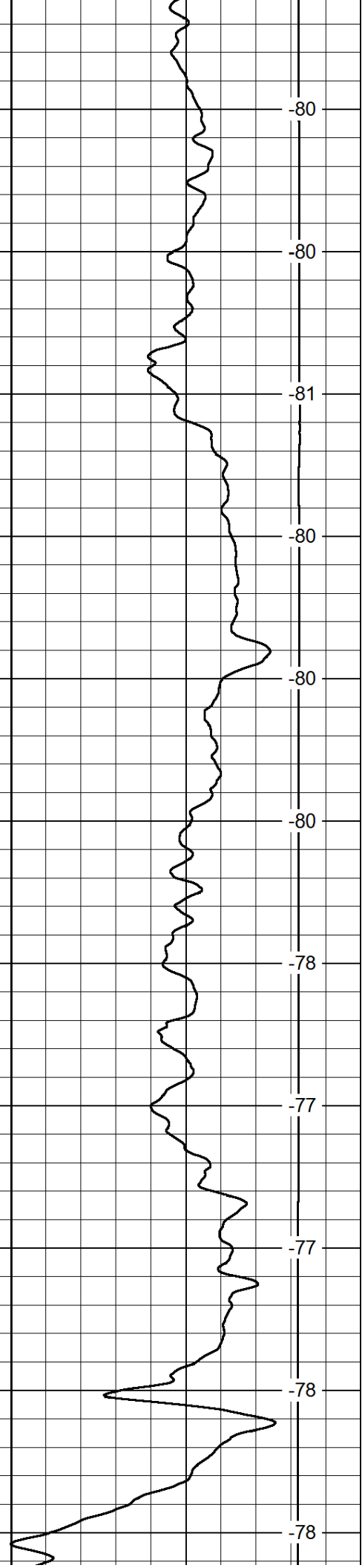
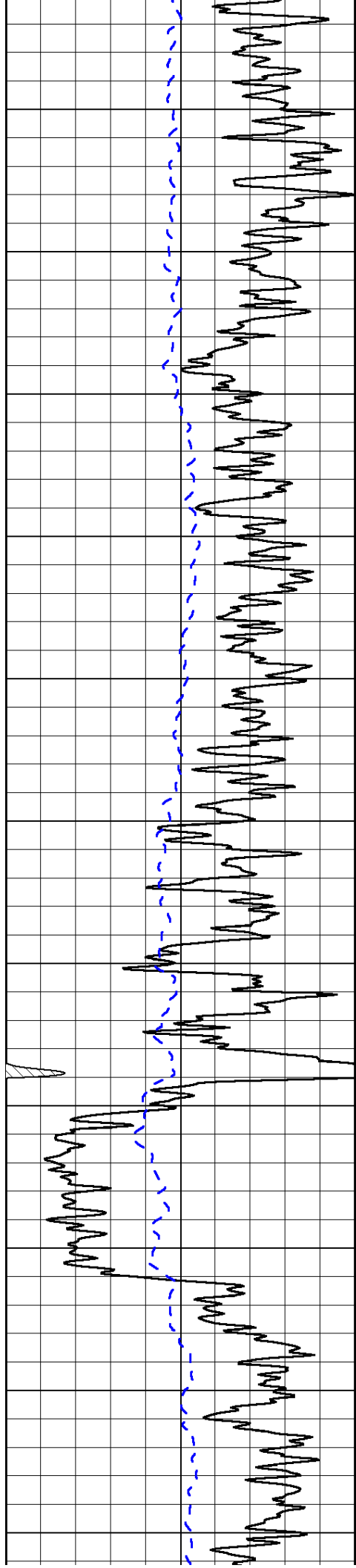
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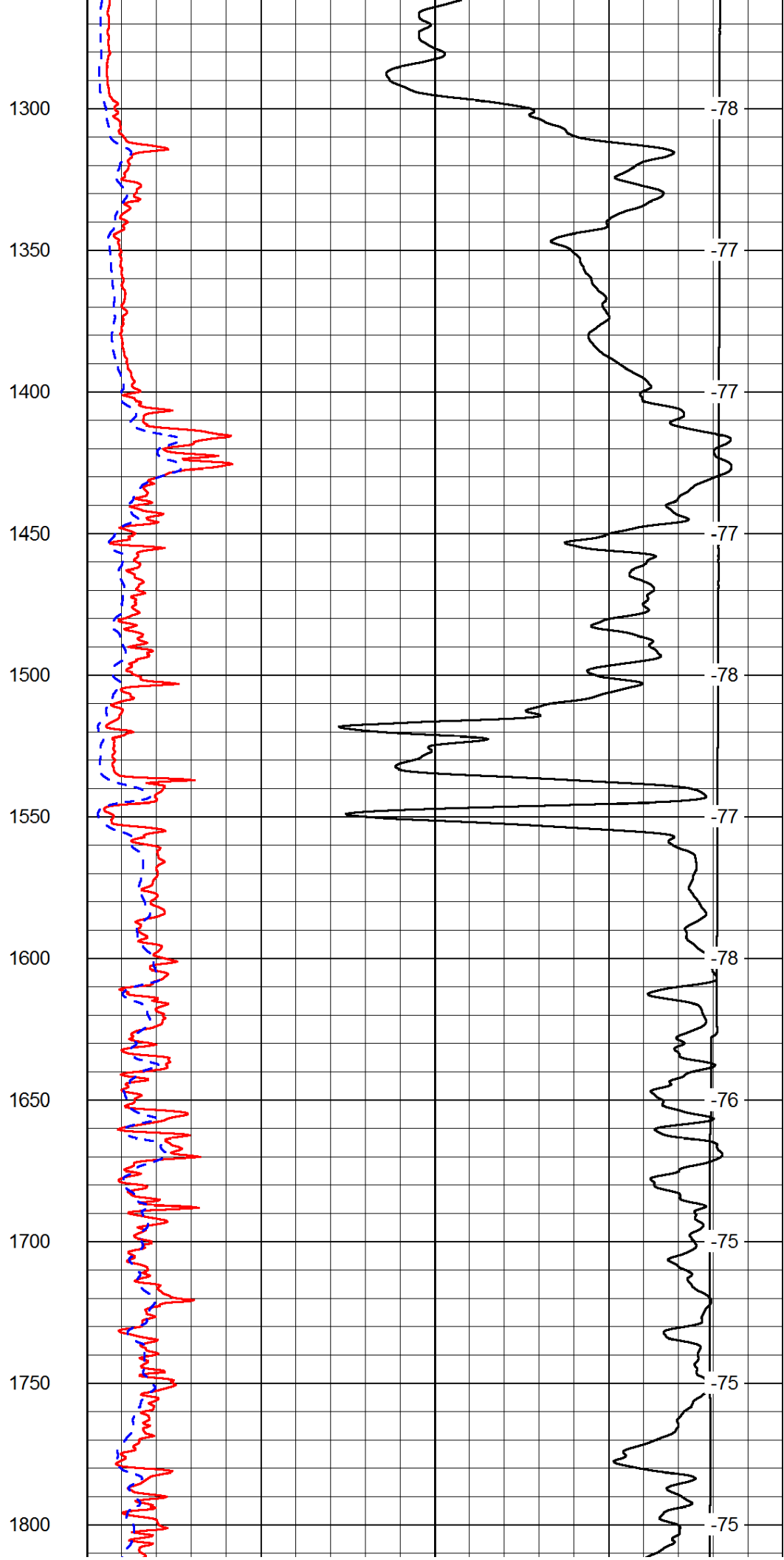
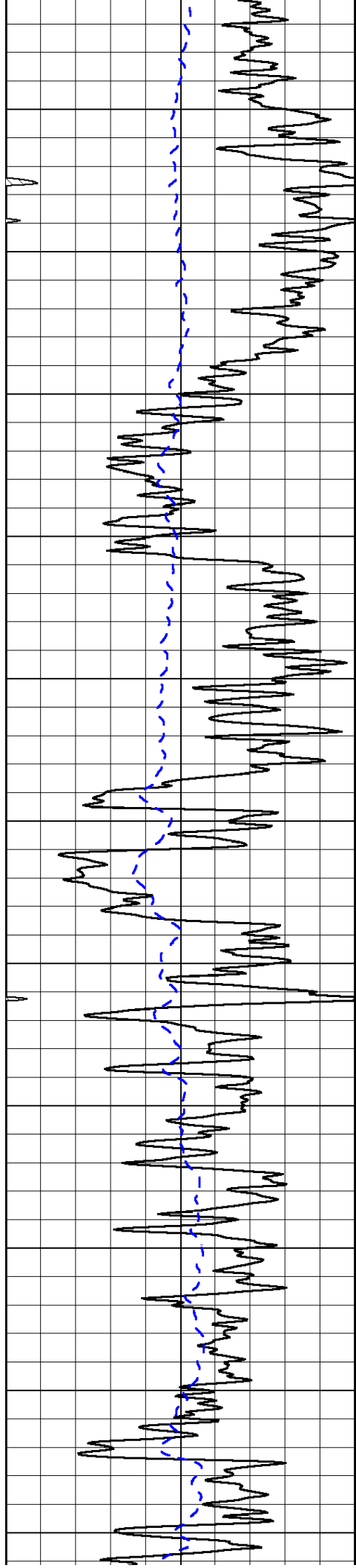
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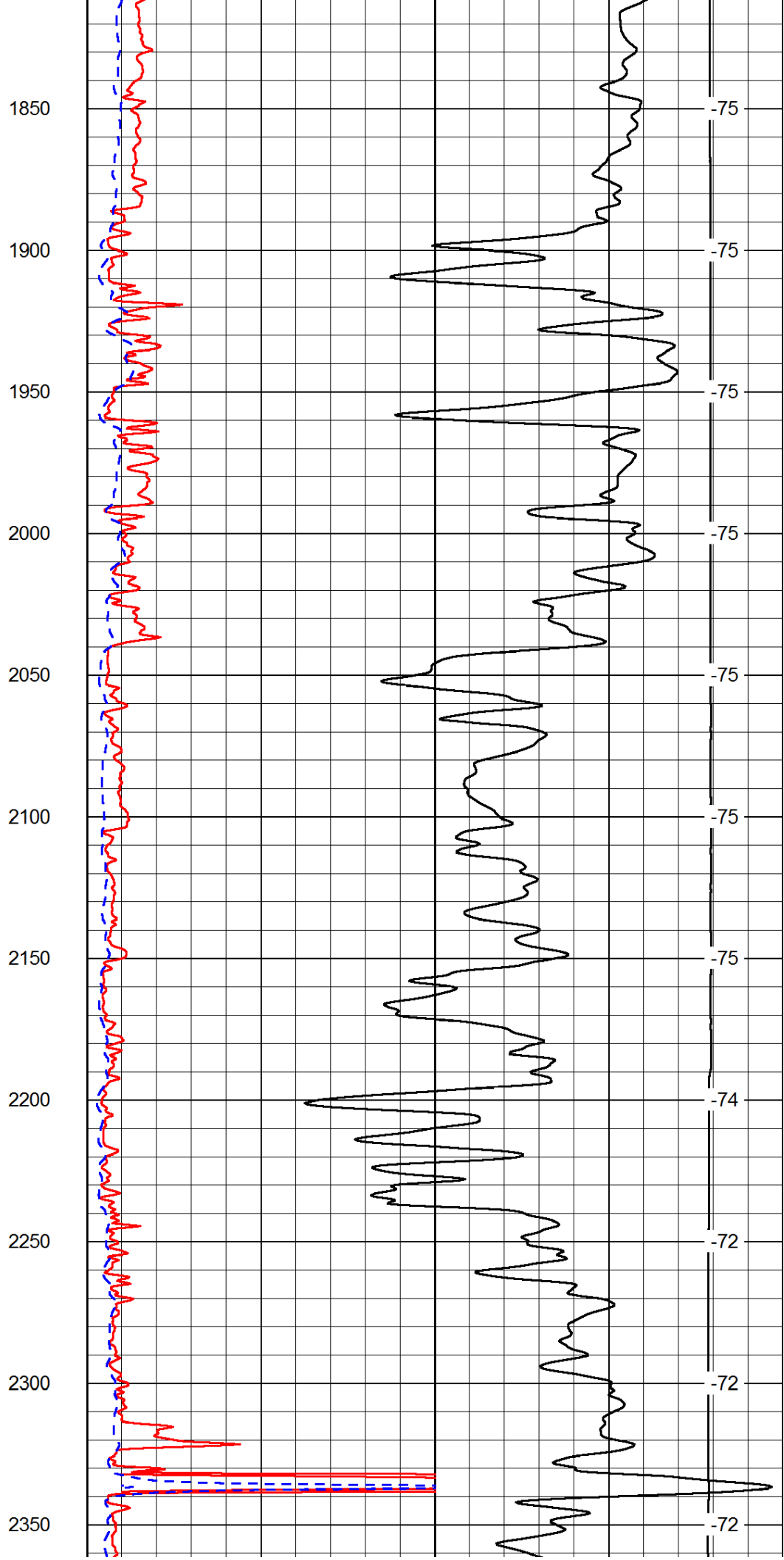
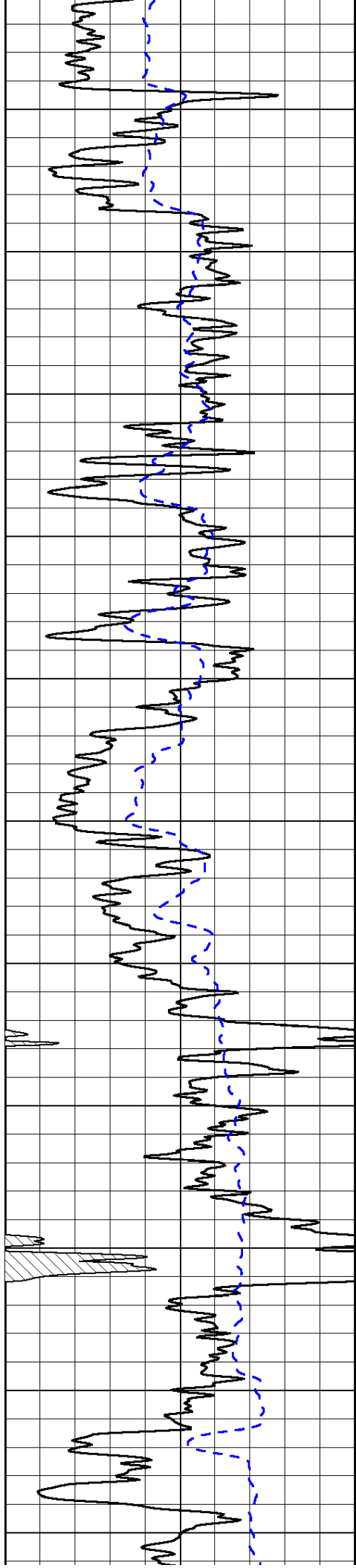
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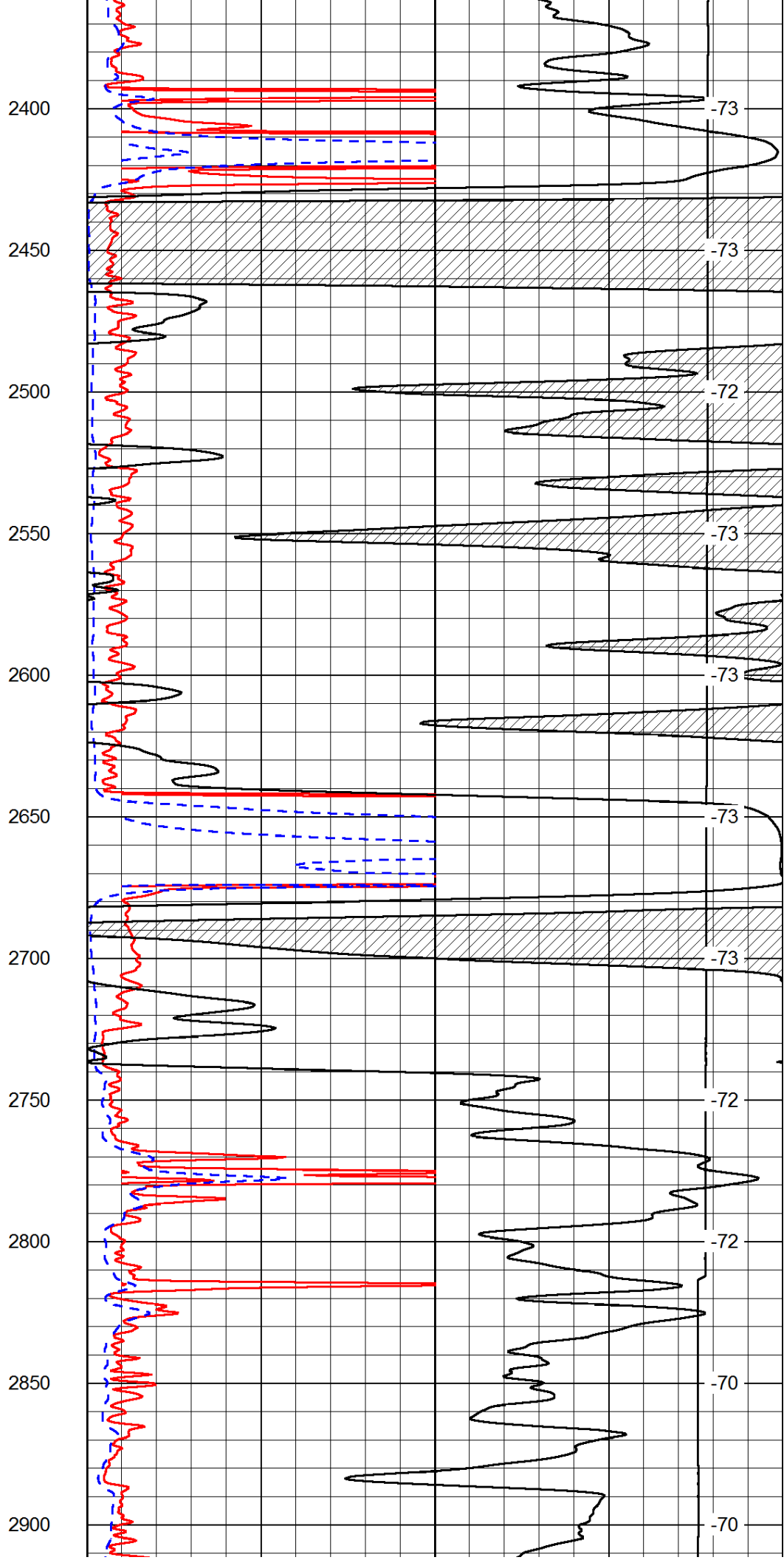
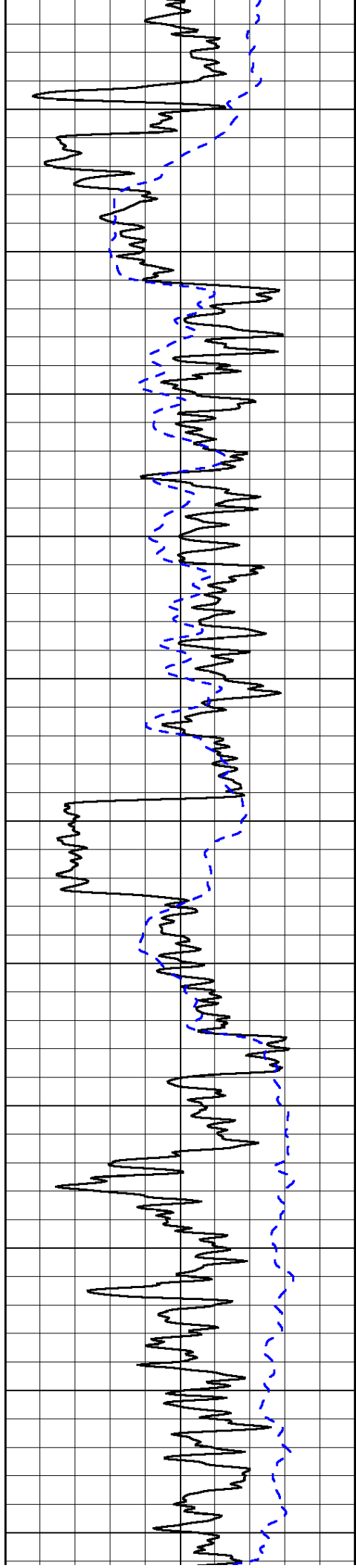
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50	Deep Resistivity	500

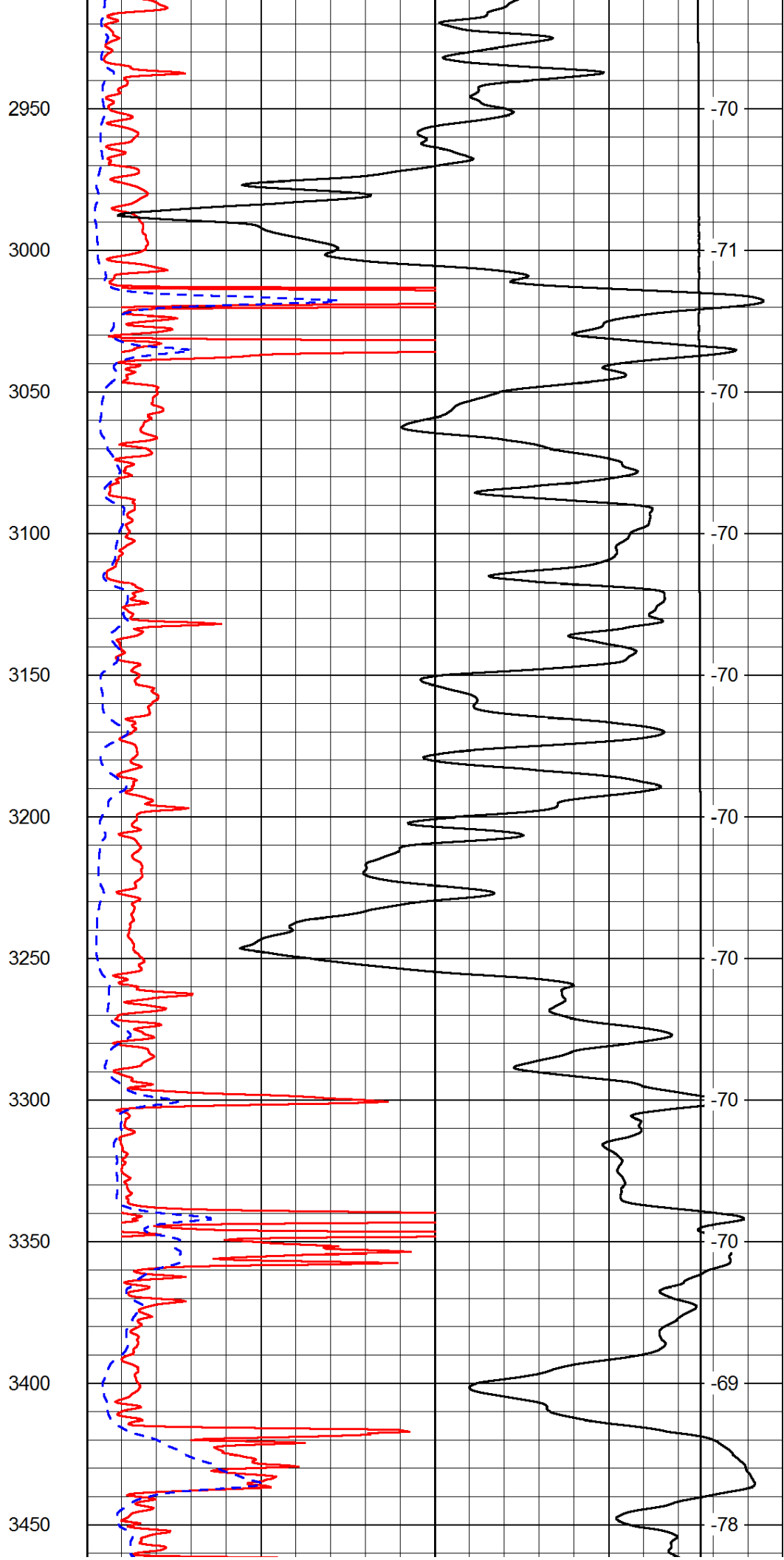
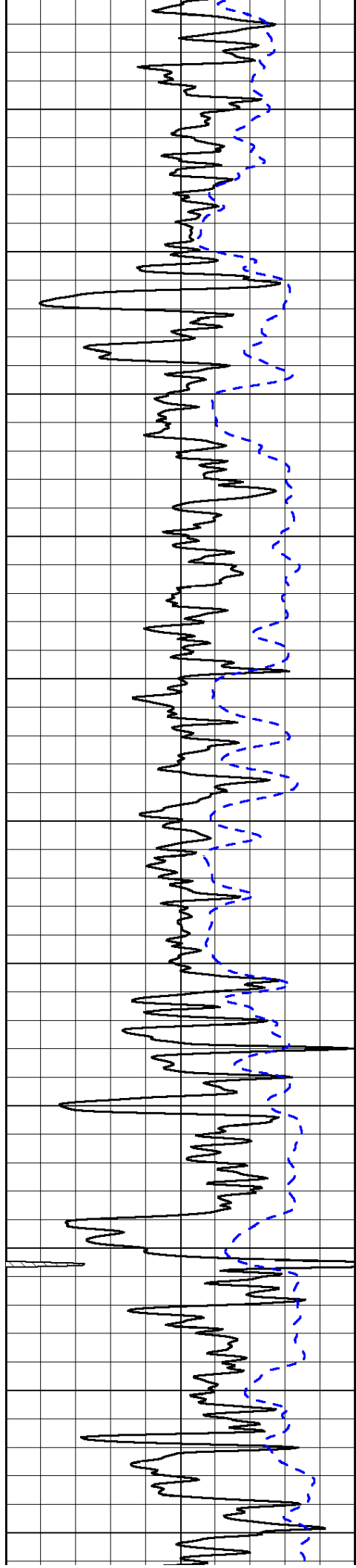


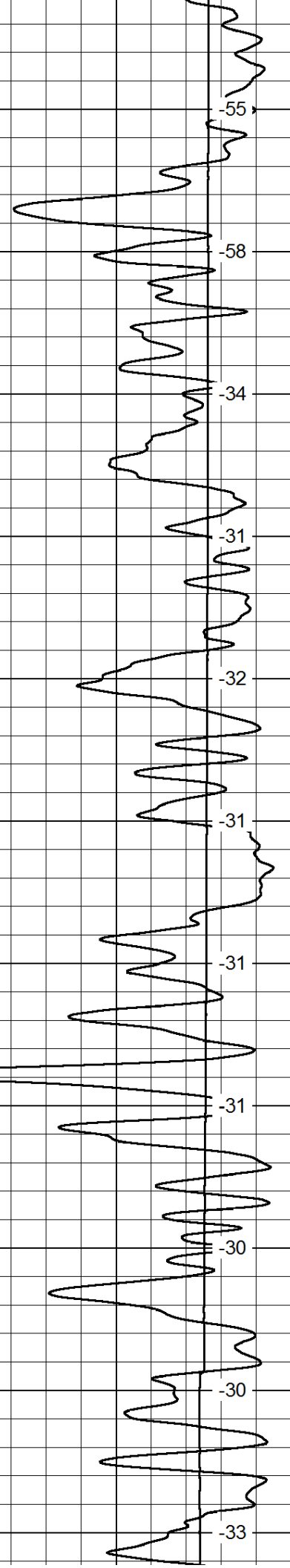
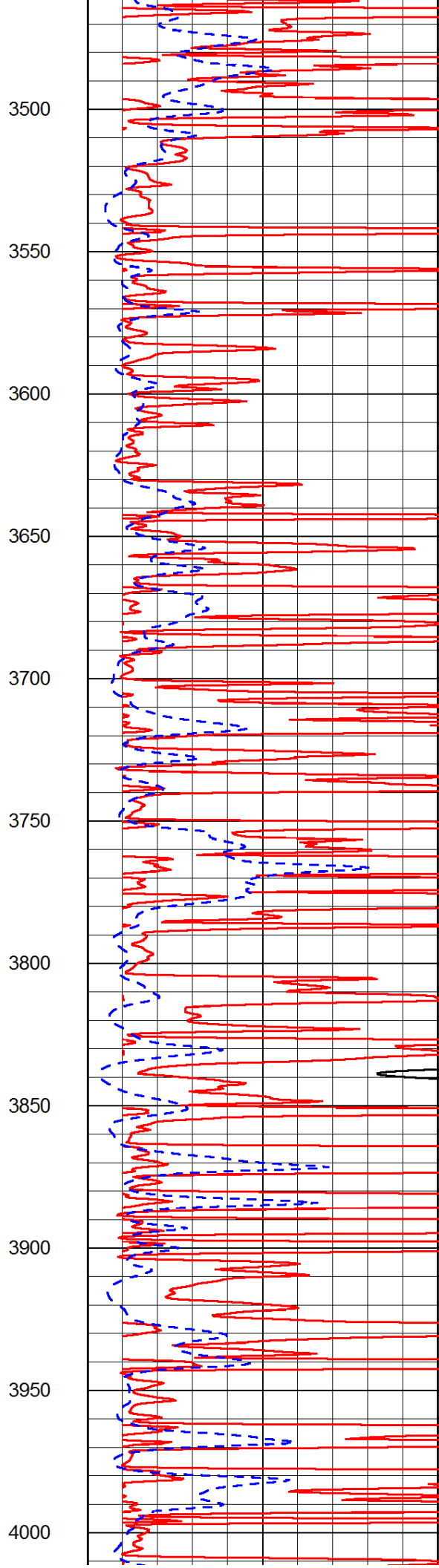
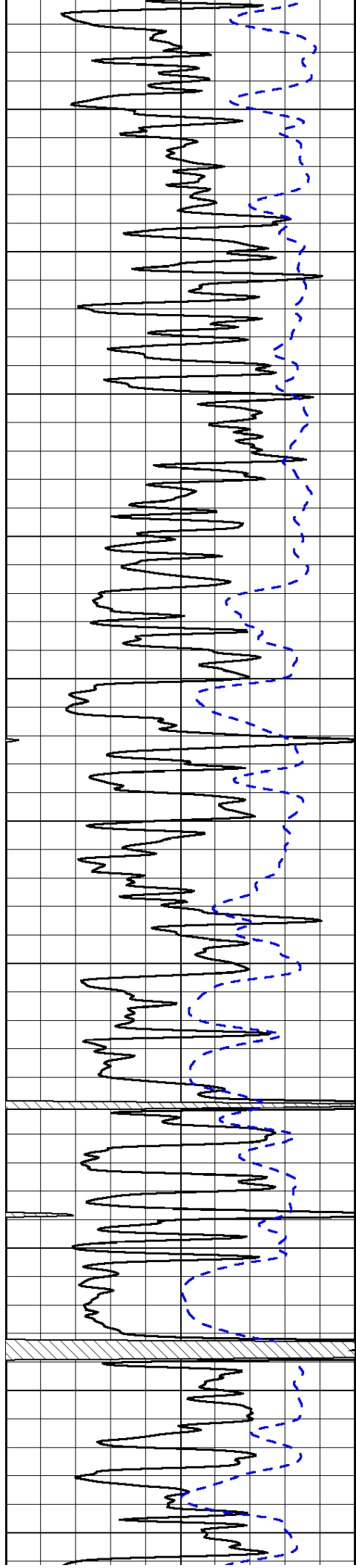


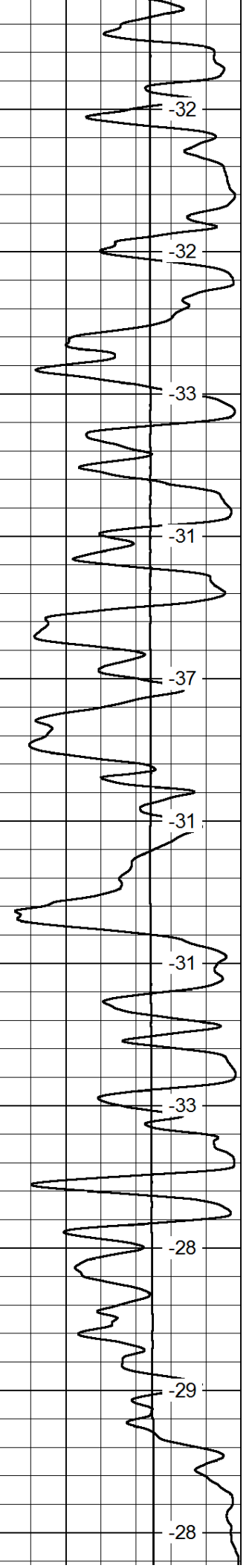
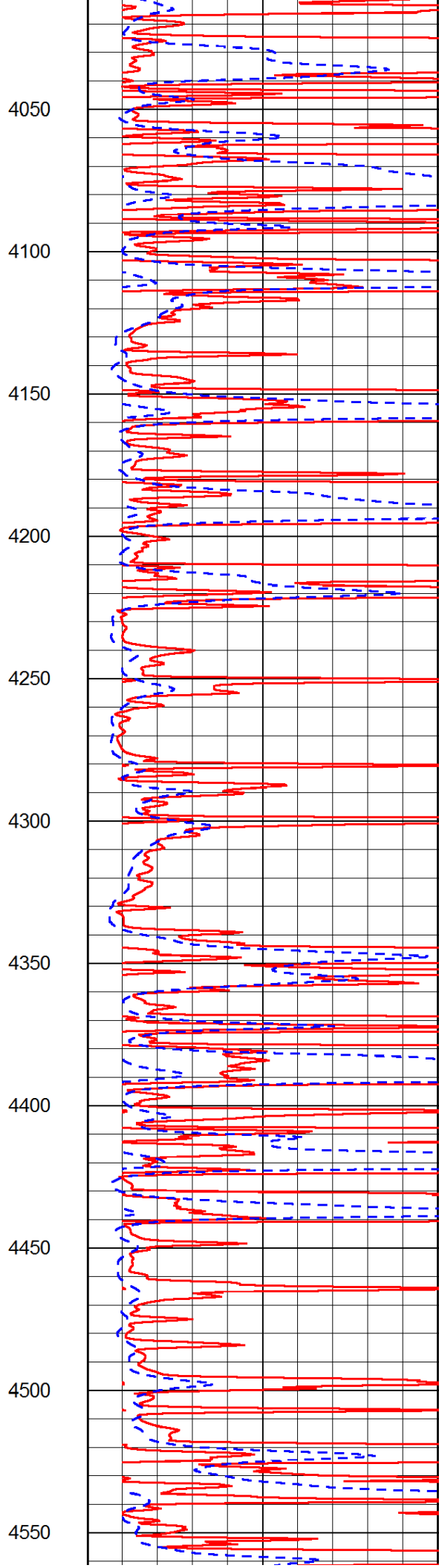
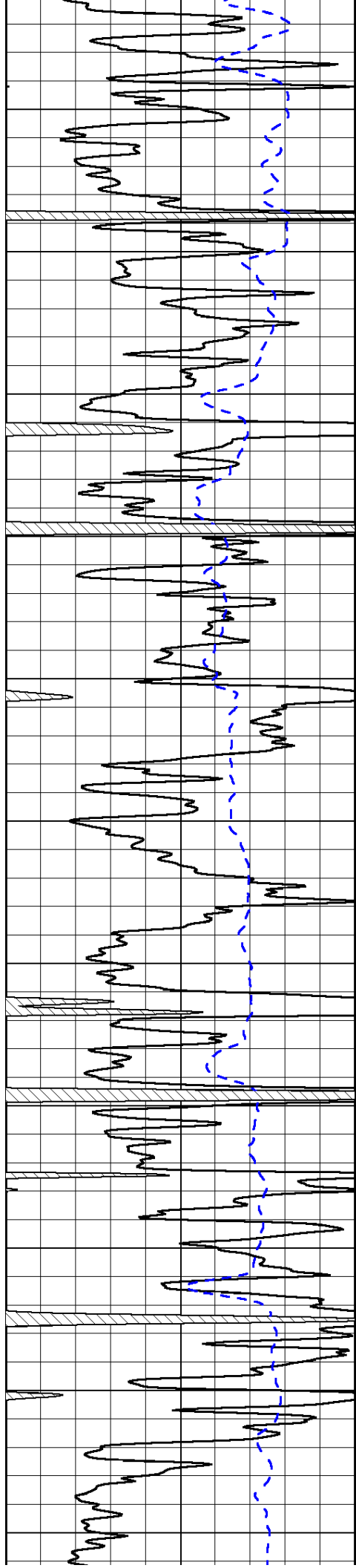


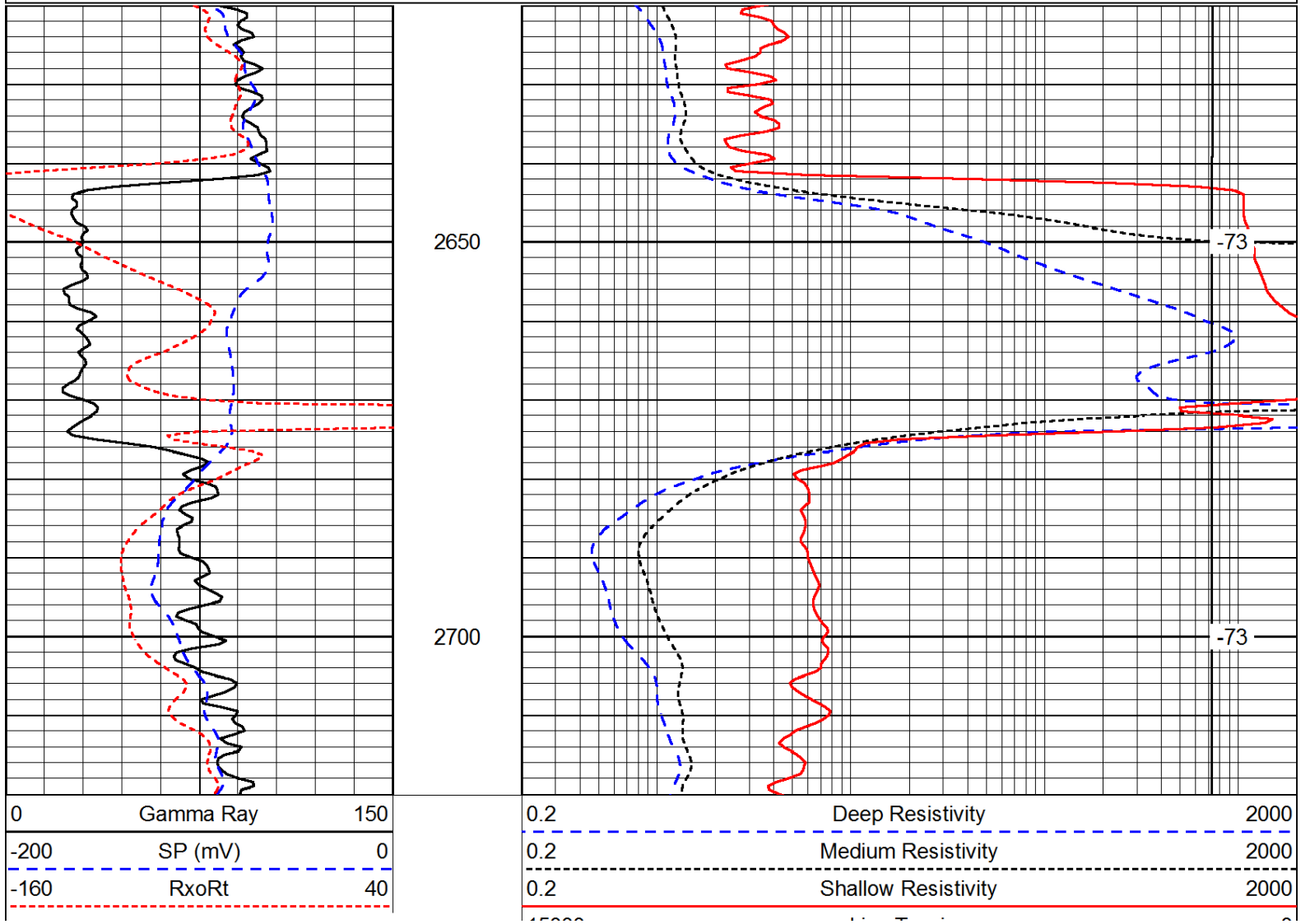
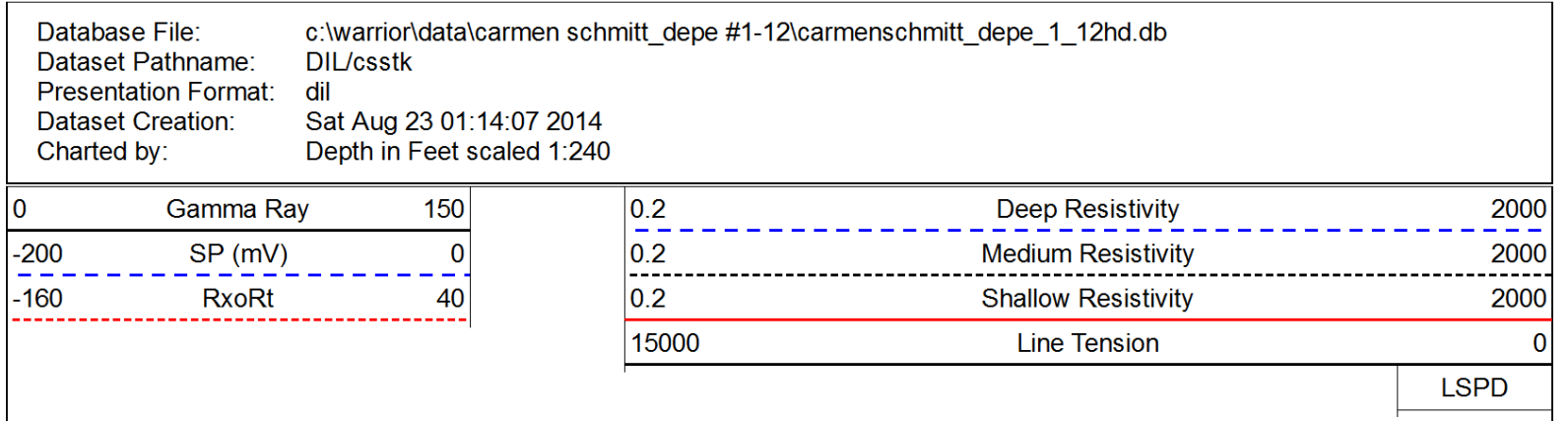
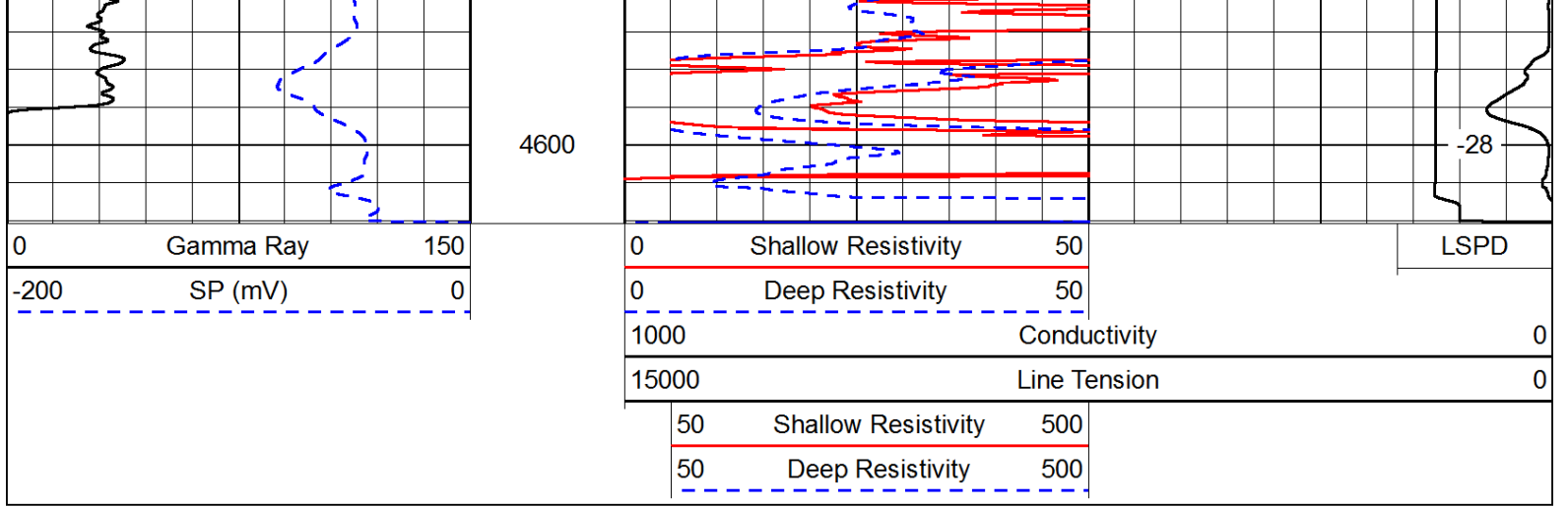








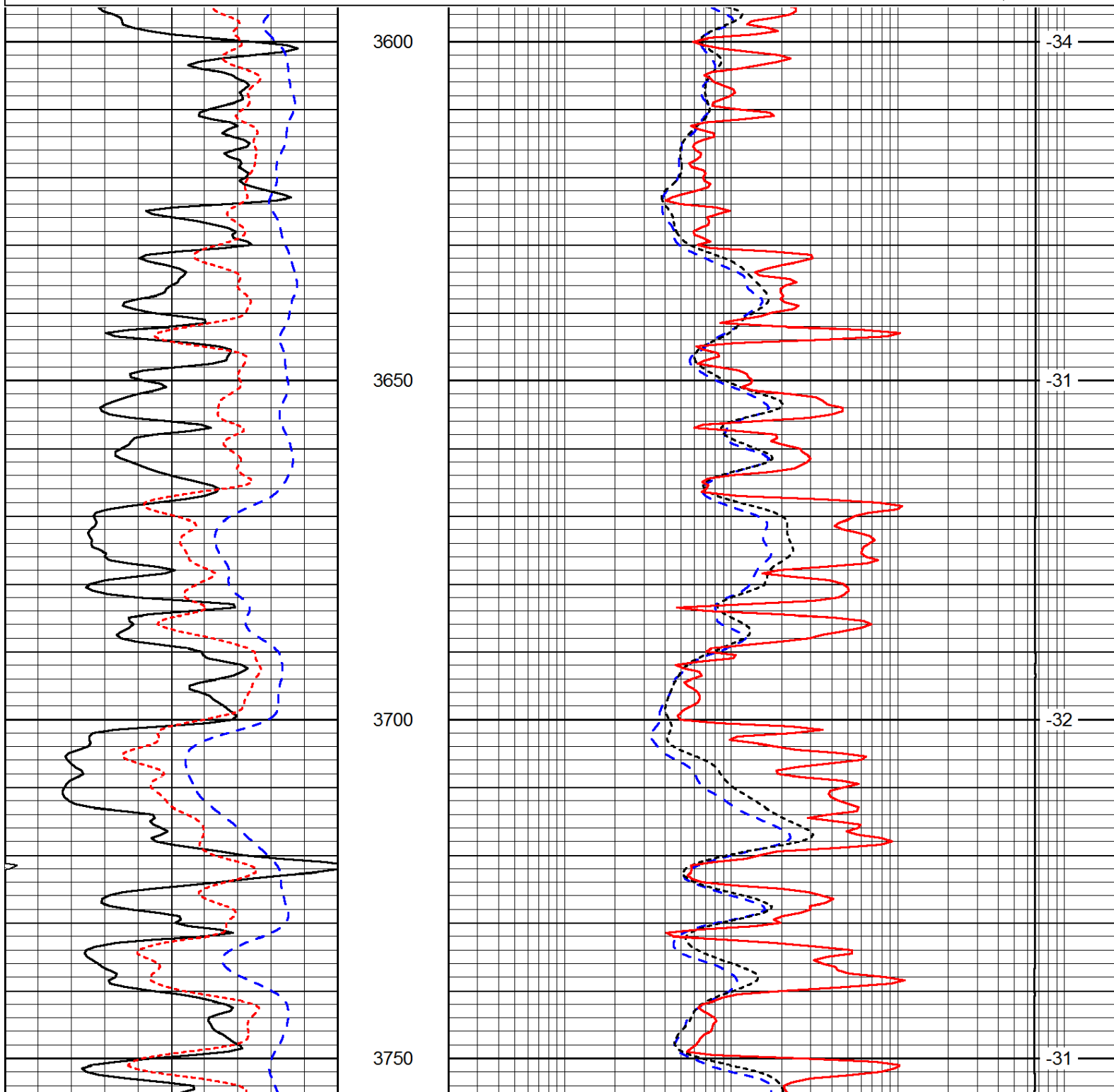


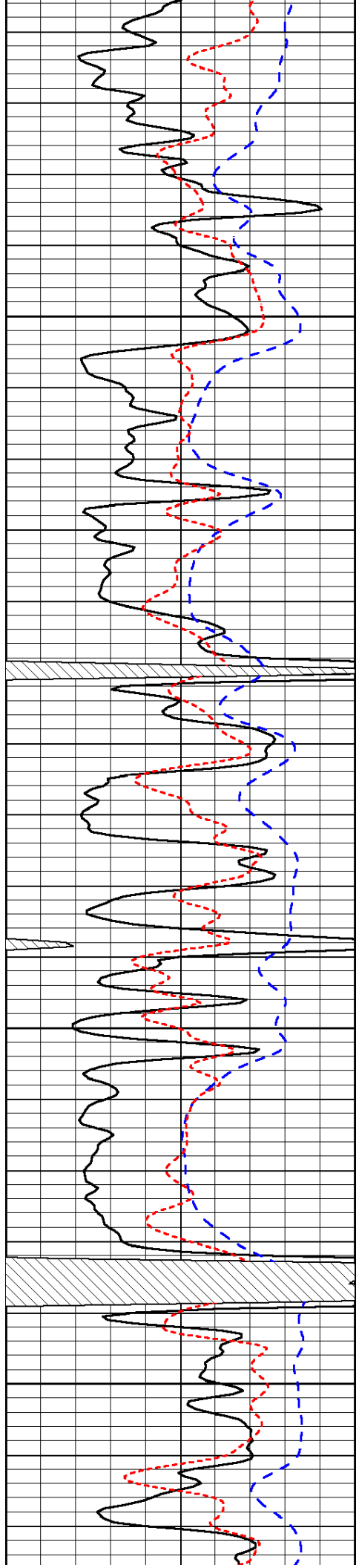


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 Dataset Pathname: DIL/csstk
 Presentation Format: dil
 Dataset Creation: Sat Aug 23 01:14:07 2014
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0



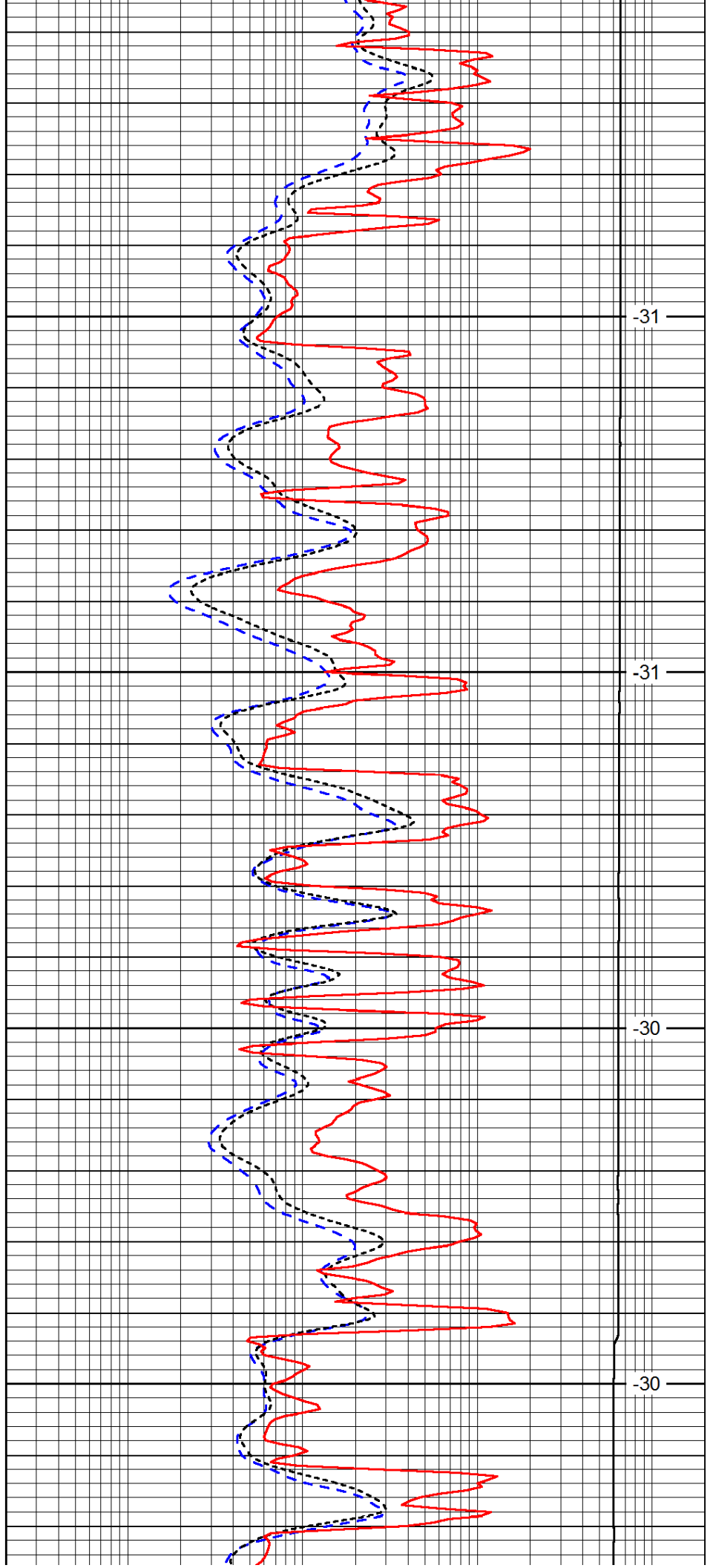


3800

3850

3900

3950

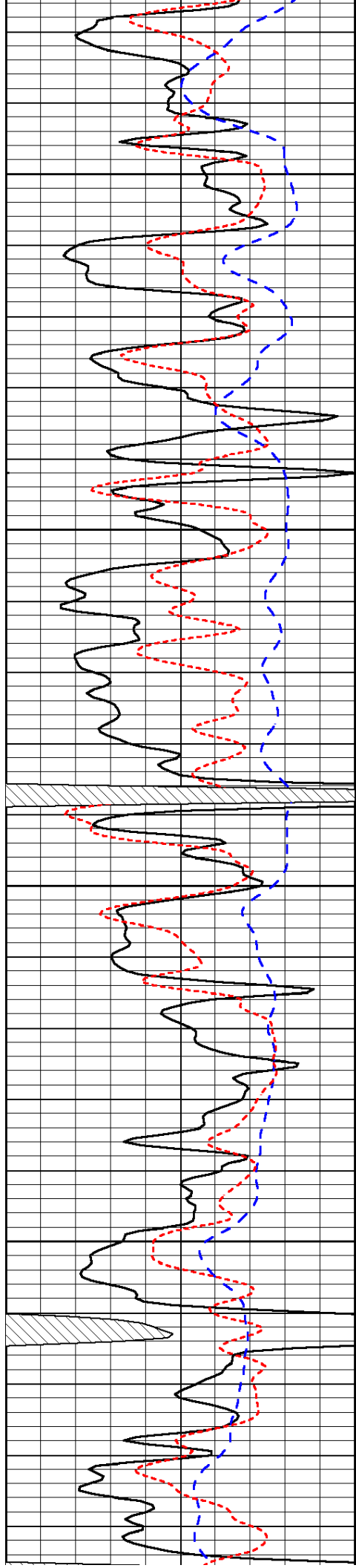


-31

-31

-30

-30

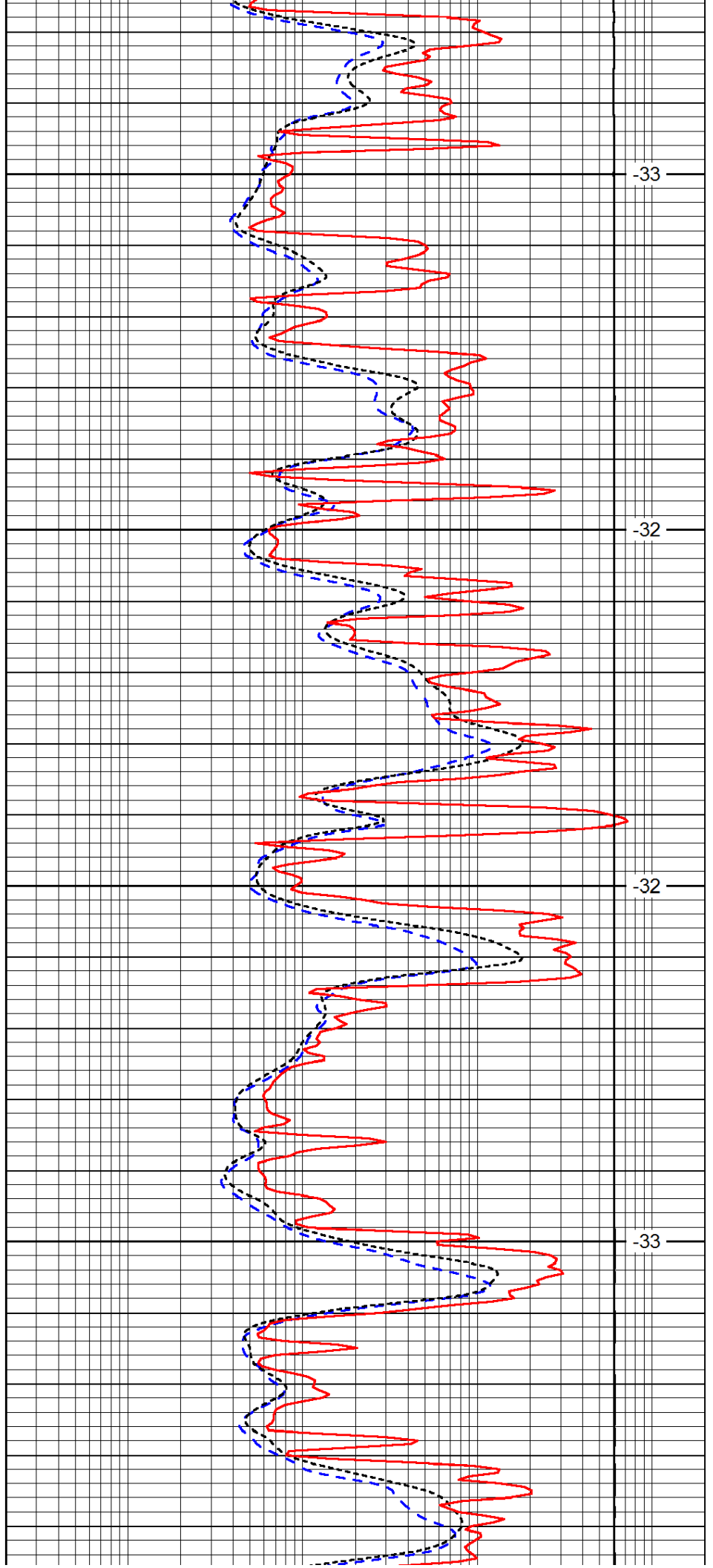


4000

4050

4100

4150

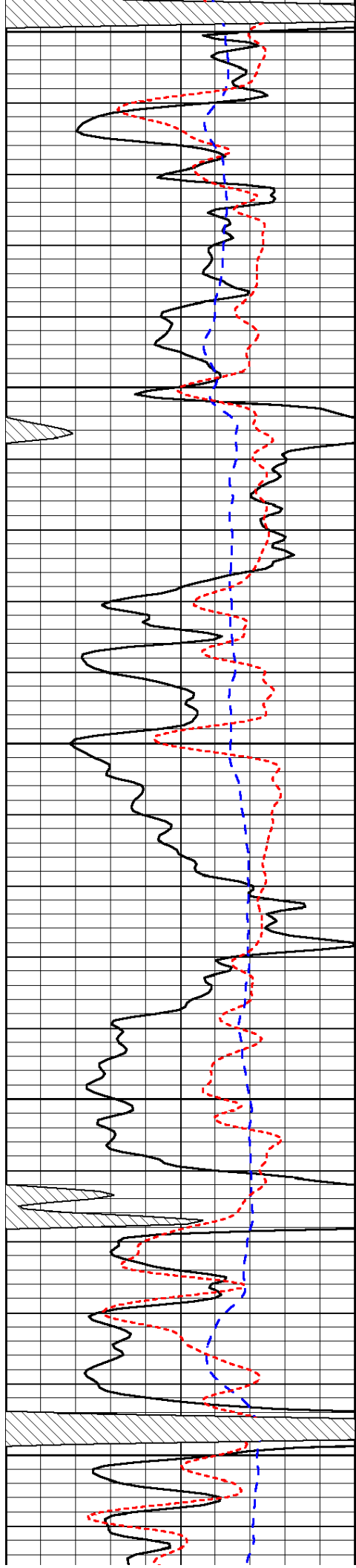


-33

-32

-32

-33



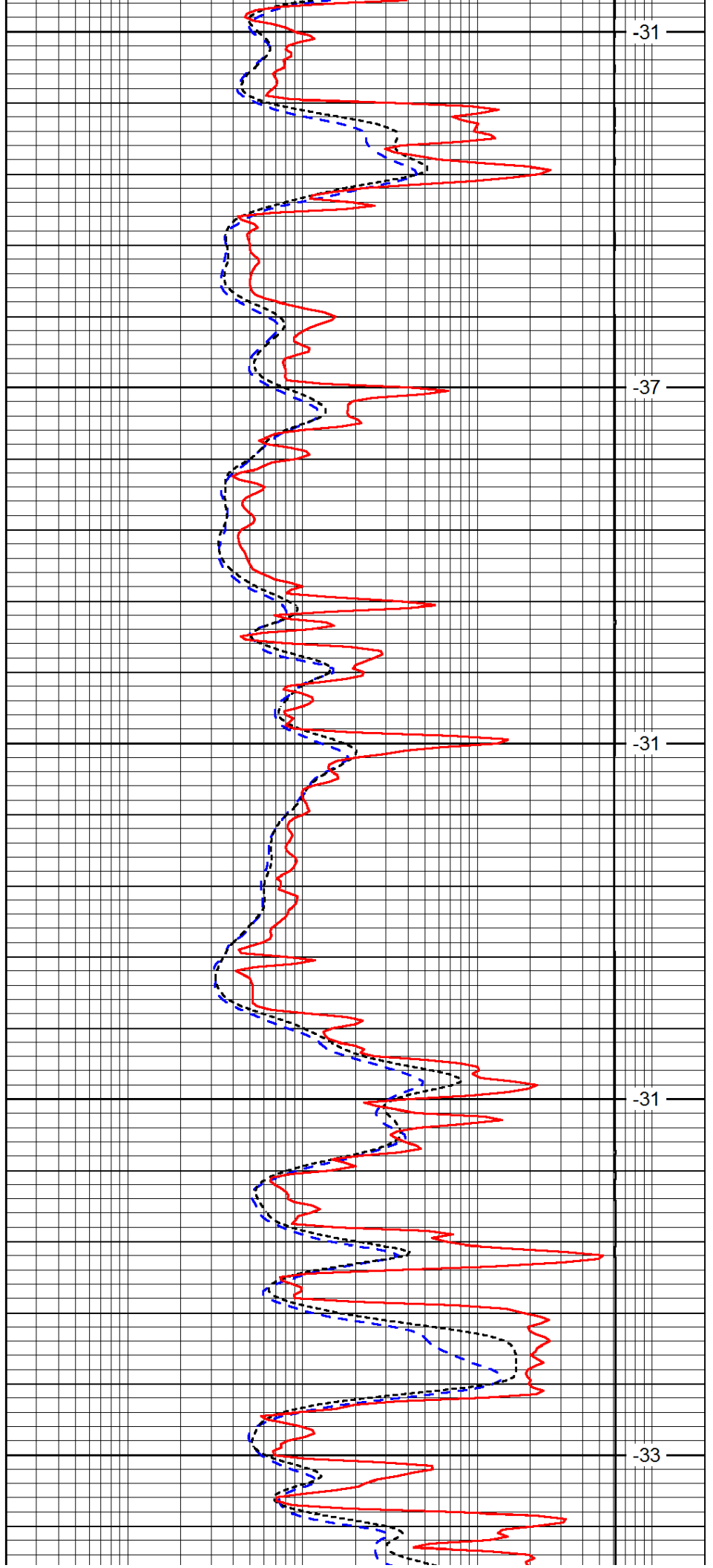
4200

4250

4300

4350

4400



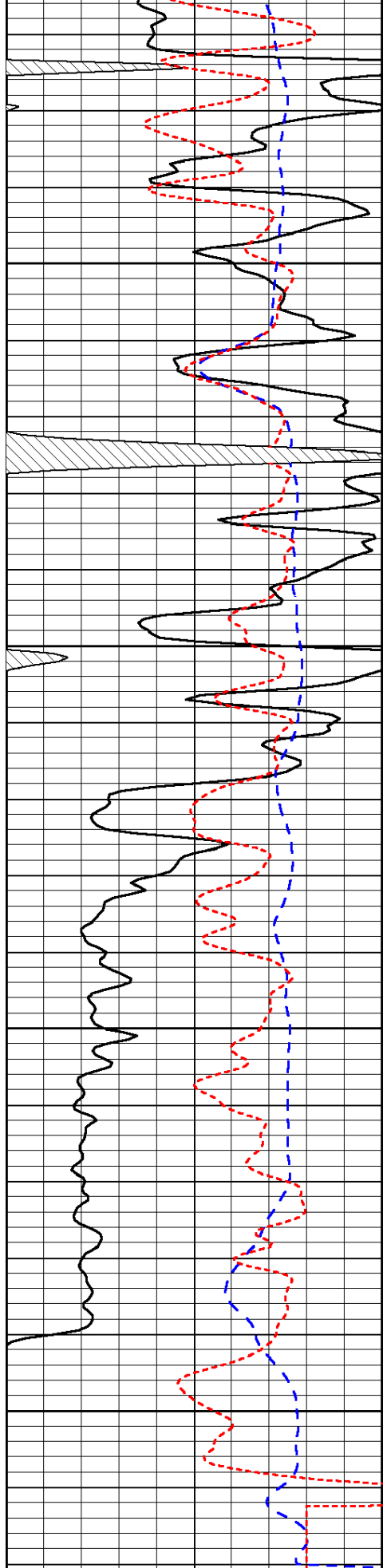
-31

-37

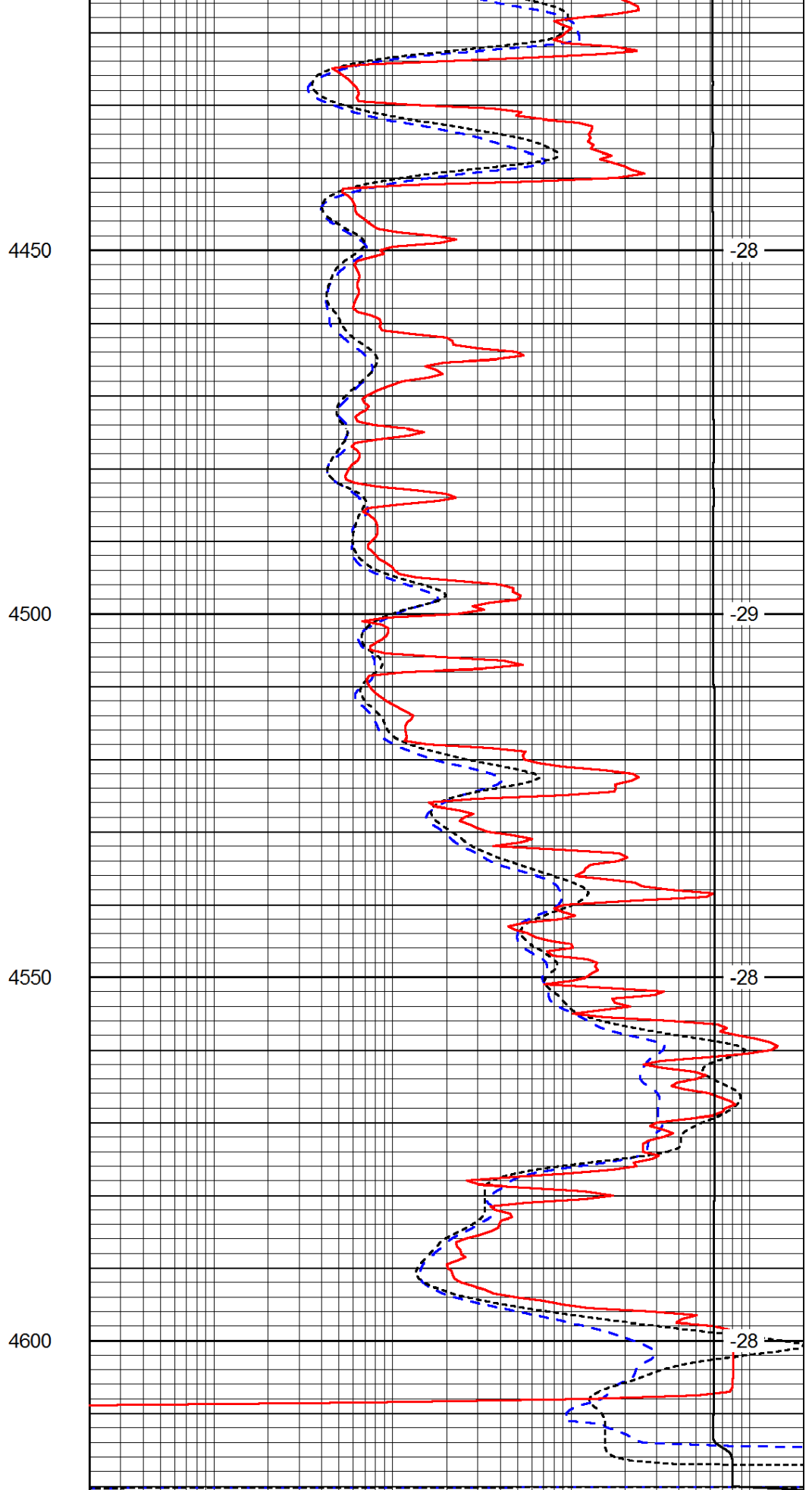
-31

-31

-33



0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000

15000

Line Tension

0

LSPD



Pioneer Energy Services

Dual Compensated Porosity Log

15-193-20,930-00-00

API No.

Company **Carmen Schmitt, Inc.**
 Well **Depe #1-12**
 Field **Wildcat**
 County **Thomas** State **Kansas**

Location **SE SW NE NW
 1212' FNL & 1663' FWL**
 Sec: **12** Twp: **7S** Rge: **32W**

Other Services
 DIL
 MEL/BHCS

Permanent Datum **Ground Level** Elevation **2991**
 Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 2996
 D.F.
 G.L. 2991

Date	8/22/2014	
Run Number	One	
Type Log	CNL / CDL	
Depth Driller	4610	
Depth Logger	4614	
Bottom Logged Interval	4593	
Top Logged Interval	3600	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	3000	
Density Level	9.2	
Level	Full	
Max. Rec. Temp. F	122	
Operating Rig Time	5 Hours	
Equipment -- Location	15 Hays	
Recorded By	D Kerr	
Witnessed By	Larry Nicholson	

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	260	8.625	24#	00	260
2	7.875	260	4610				

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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.

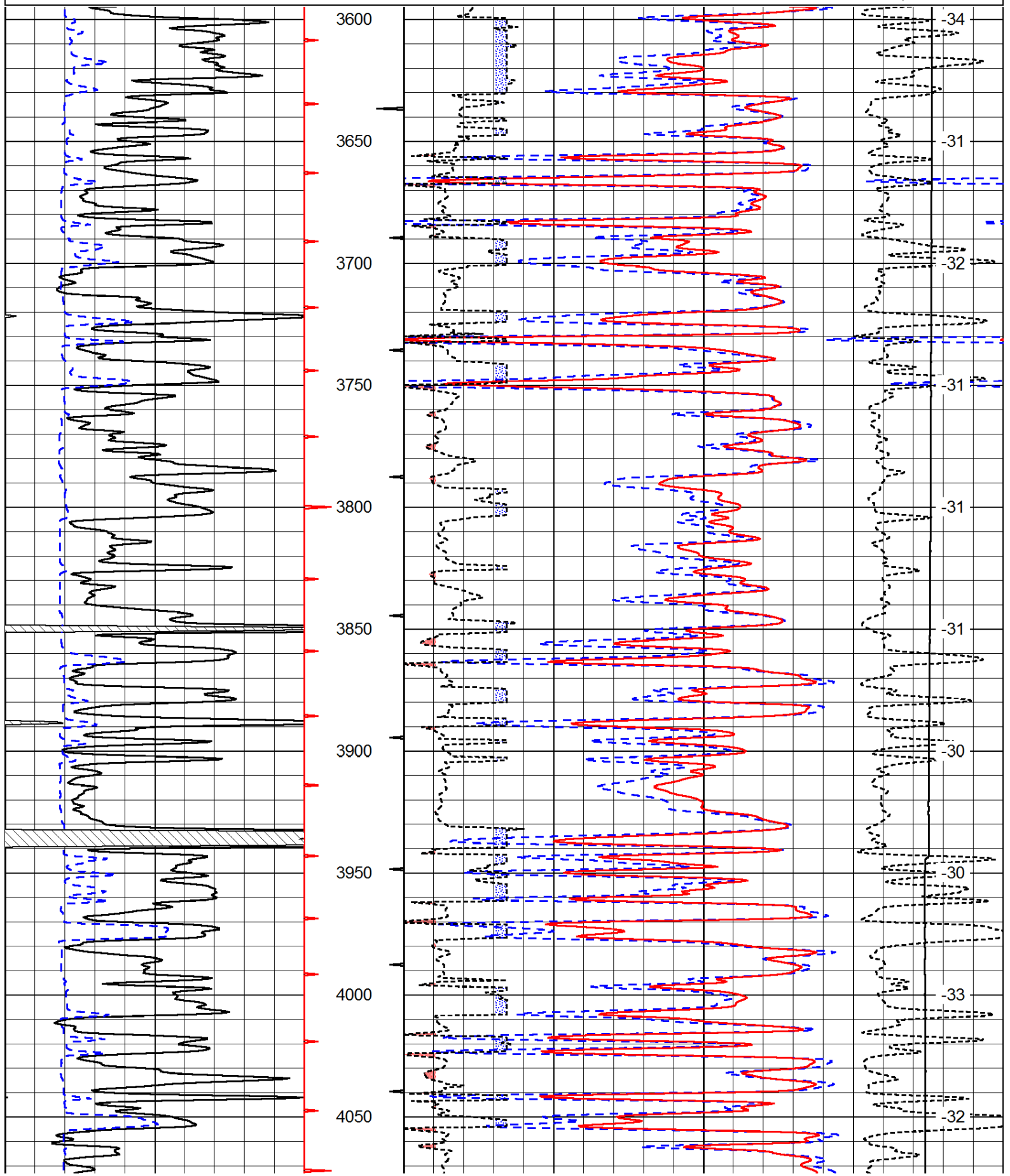
Comments

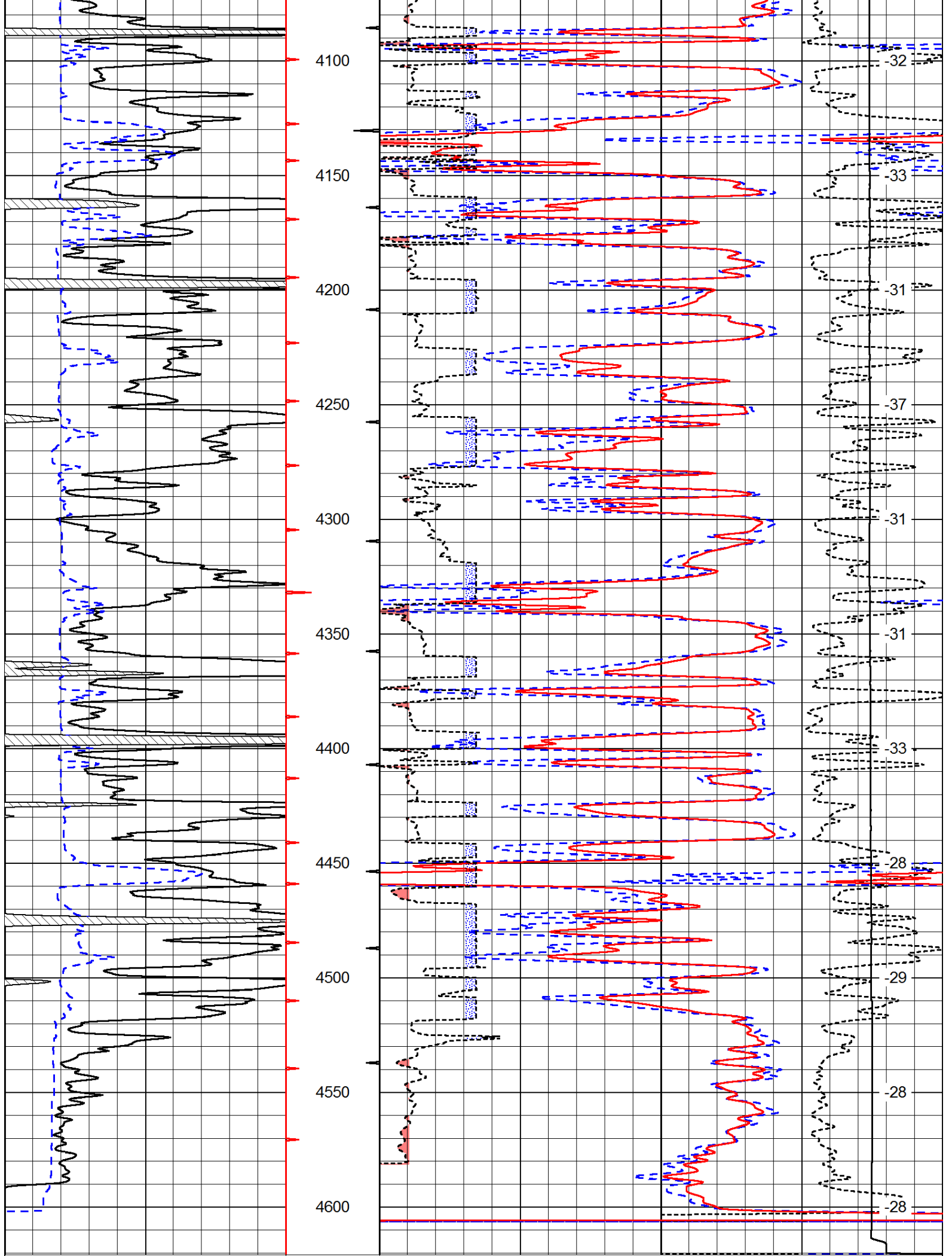
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 785 625 3858

Oakley KS North on HWY 83 to HWY 24,
 4 NorthEast to 30 RD, 1 North, East and North Into

0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			





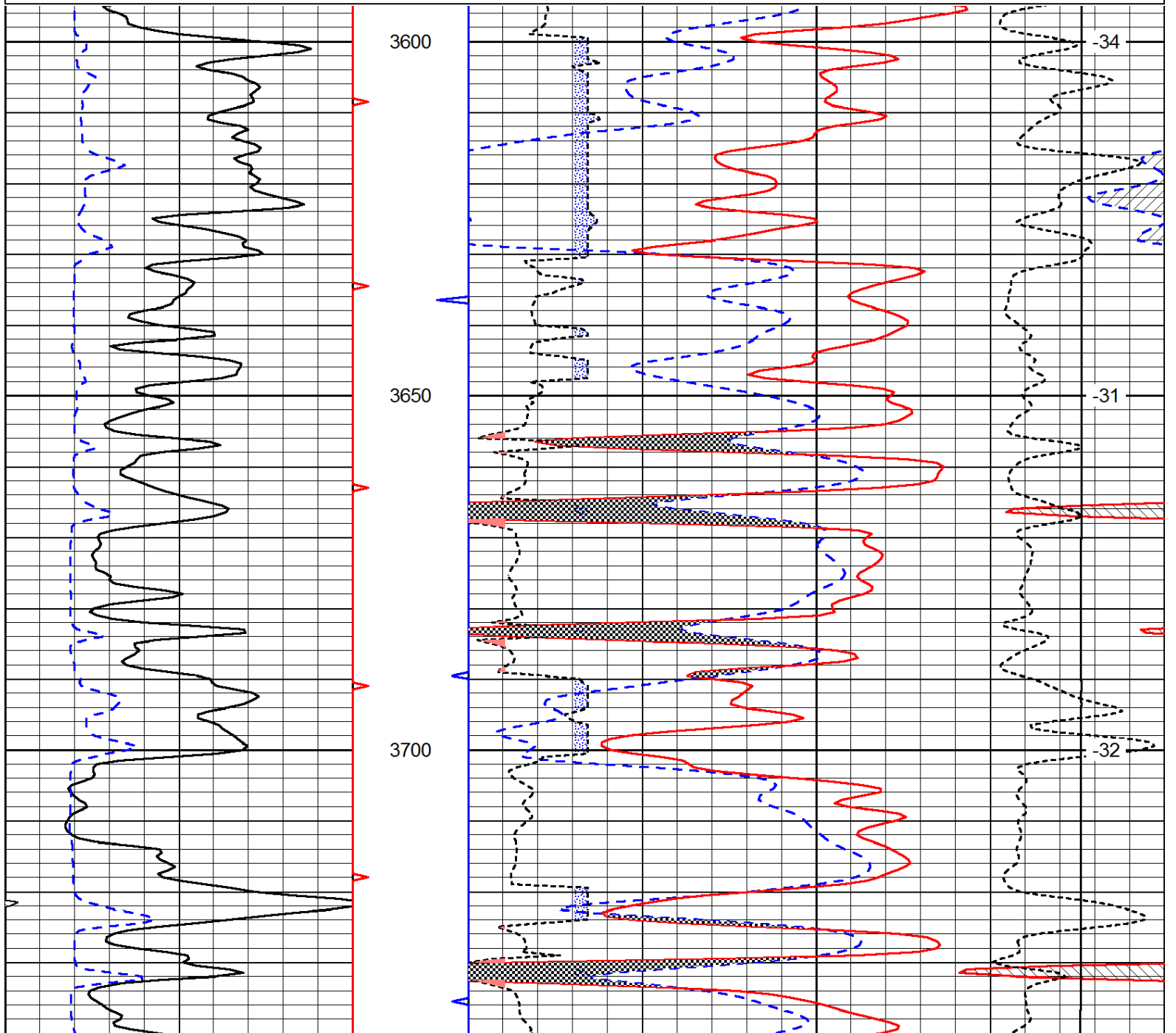
0	Gamma Ray	150
6	Caliper (GAPI)	16

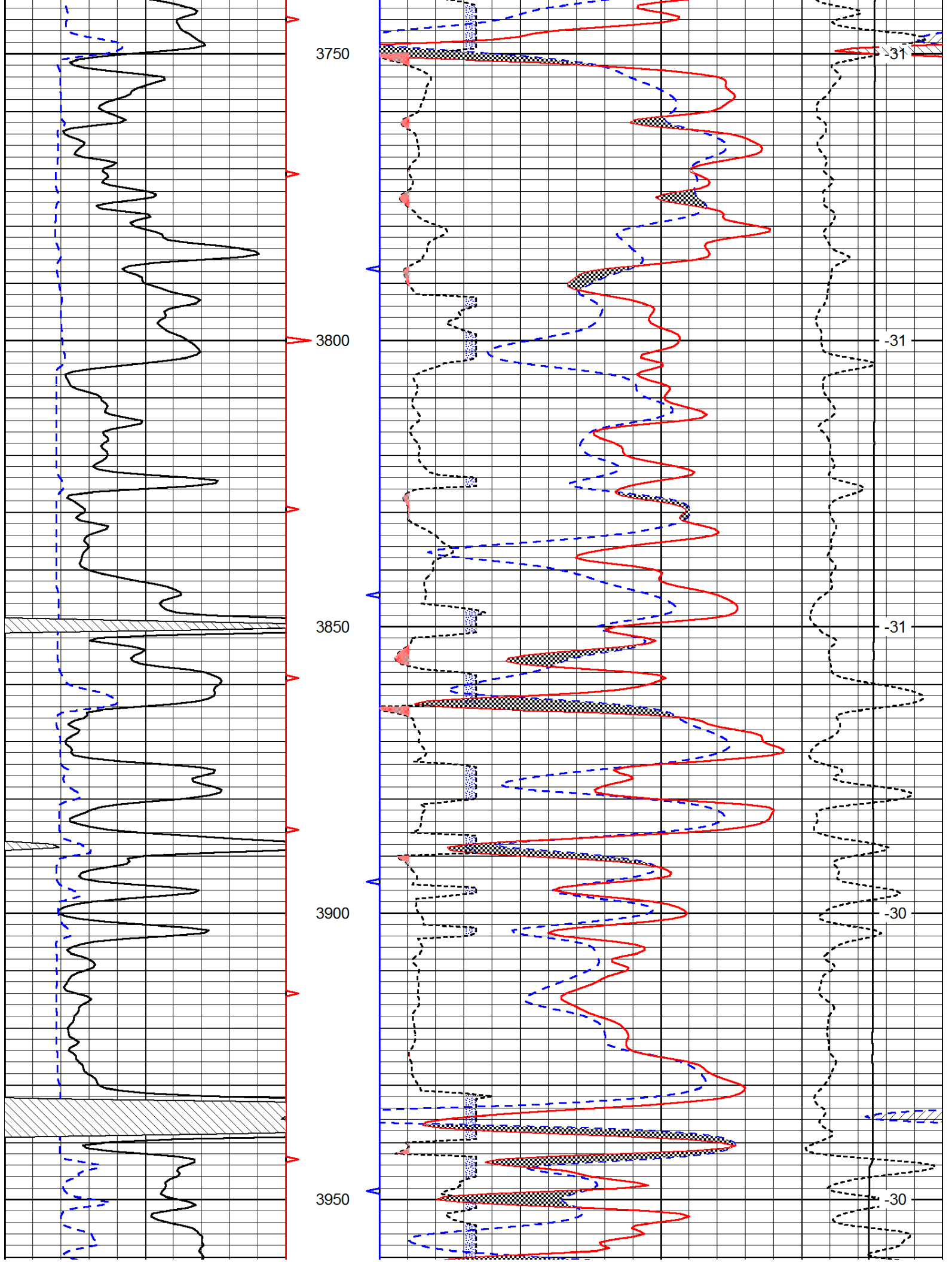
30	Compensated Density			-10
2	Bulk Density			3
15000	Line Tension			0
2.625	DGA	3.425	-0.25	Correction 0.25
				LSPD

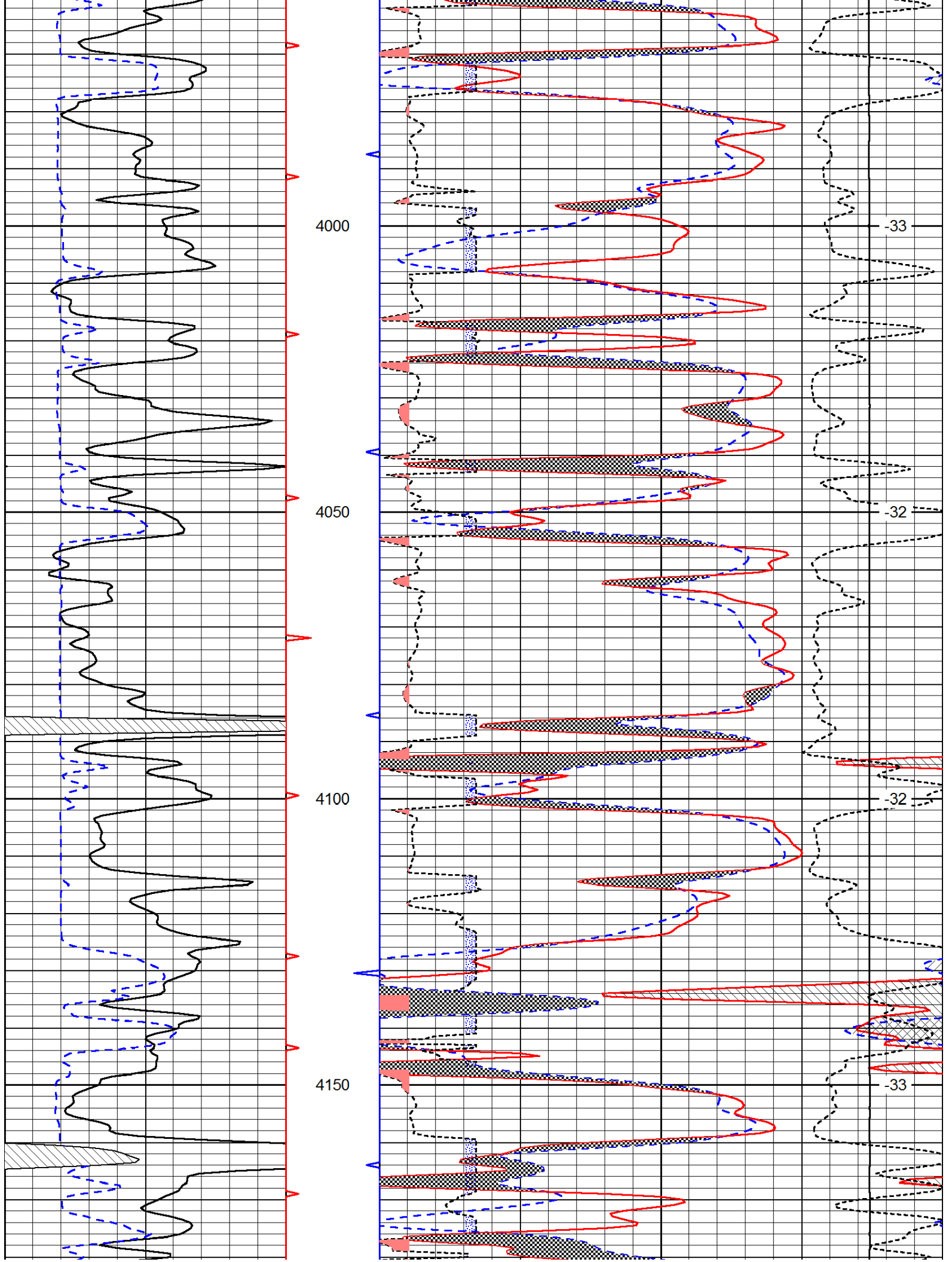
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 Dataset Pathname: DIL/csstk
 Presentation Format: cndlspec
 Dataset Creation: Sat Aug 23 01:14:07 2014
 Charted by: Depth in Feet scaled 1:240

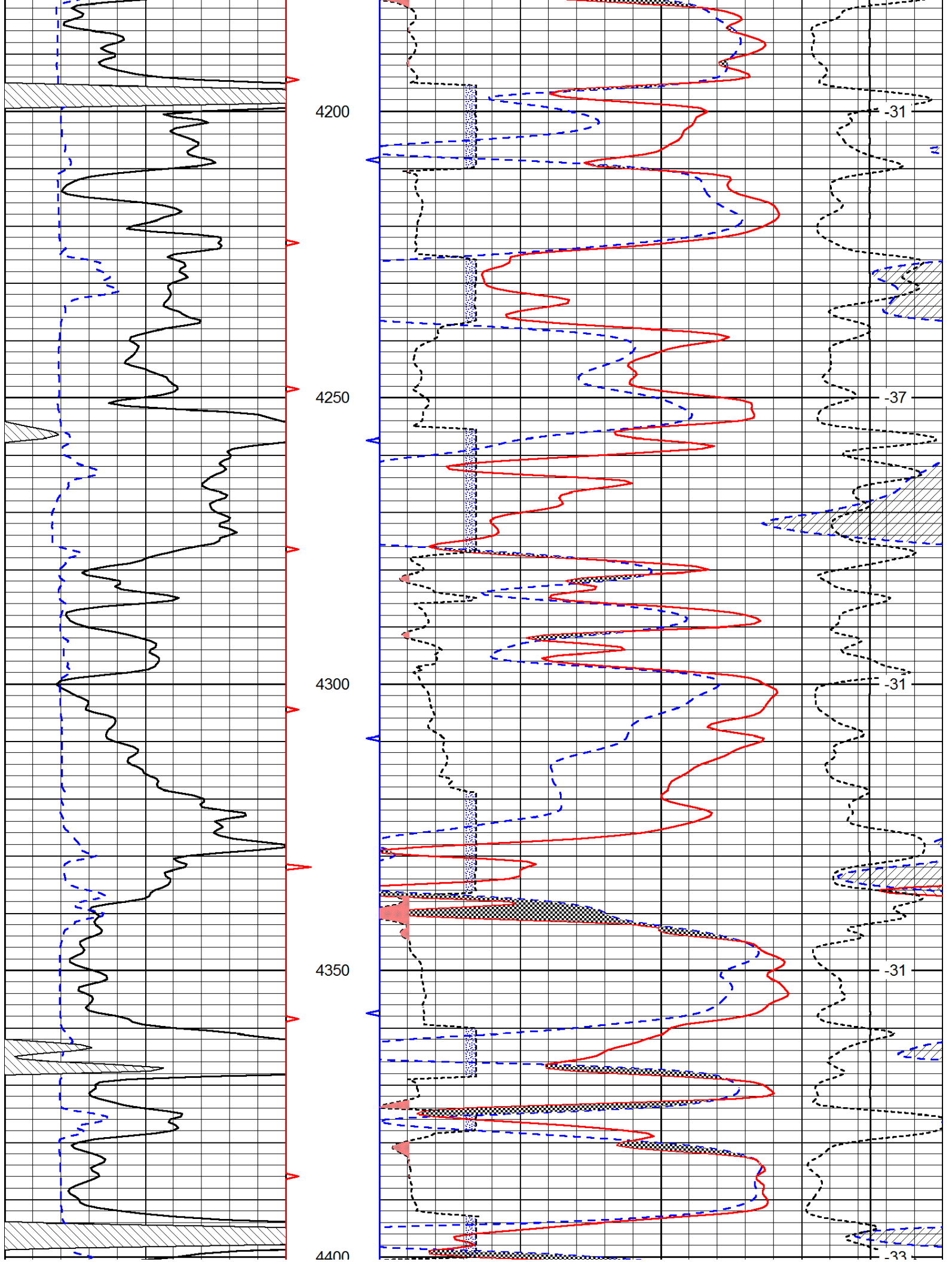
0	Gamma Ray	150
6	Caliper (GAPI)	16

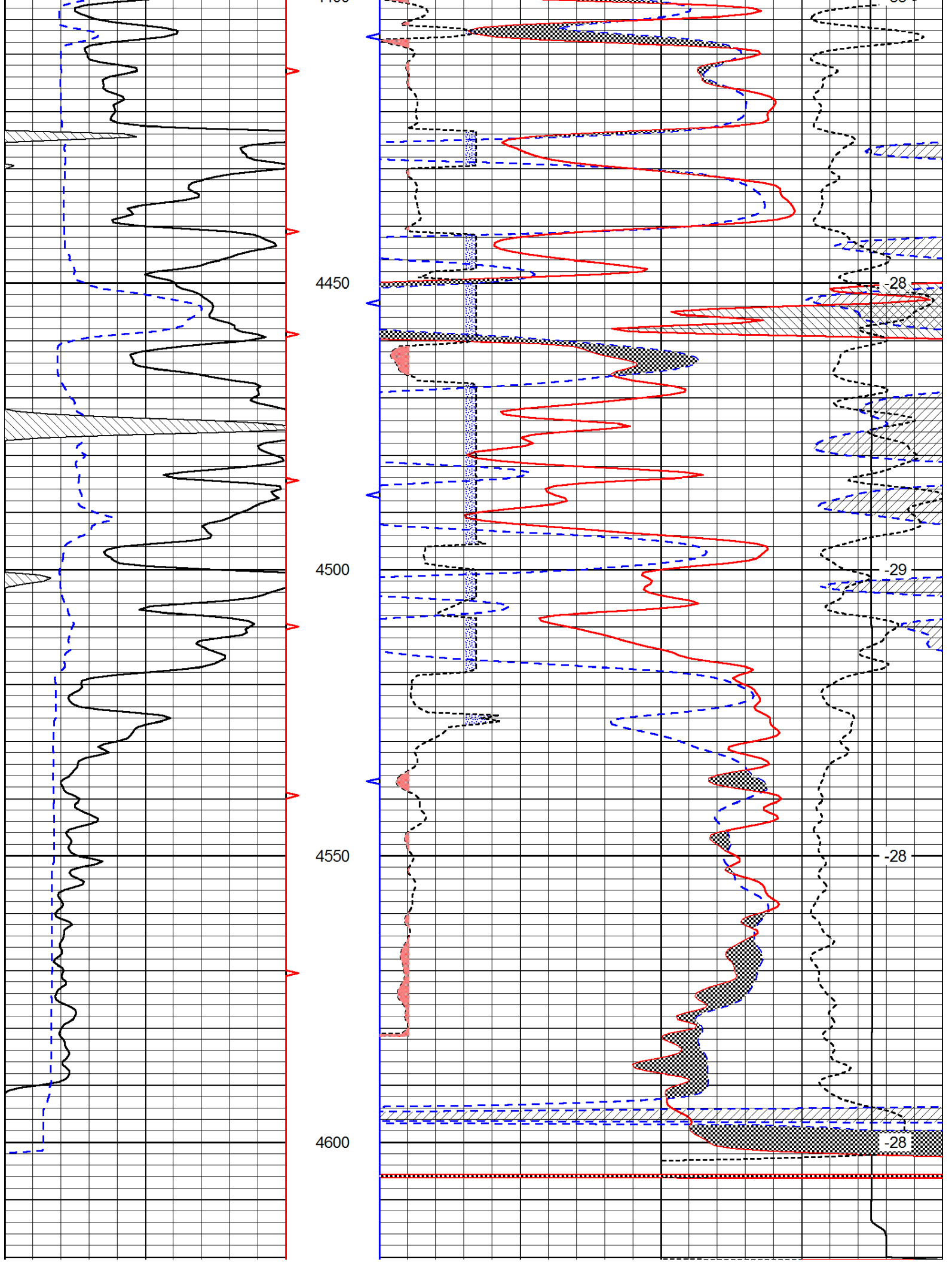
30	Compensated Neutron (Limestone)			-10
30	Compensated Density (Limestone)			-10
2.625	DGA	3.425	-0.25	Correction 0.25
15000	Line Tension			0
				LSPD











0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Neutron (Limestone)			-10	
30	Compensated Density (Limestone)			-10	
2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension			0	
				LSPD	



Pioneer Energy Services

Microresistivity Log

15-193-20,930-00-00

API No.

Company **Carmen Schmitt, Inc.**

Well **Depe #1-12**

Field **Wildcat**

County **Thomas** State

Kansas

Location

SE SW NE NW
1212' FNL & 1663' FWL

Other Services
CNL/CDL
DIL/BHCS

Sec: 12 Twp: 7S Rge: 32W

Permanent Datum Ground Level Elevation 2991
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2996
D.F. 2991
G.L. 2991

Date 8/22/2014

Run Number Two

Depth Driller 4610

Depth Logger 4614

Bottom Logged Interval 4613

Top Log Interval 3600

Casing Driller 8.625 @ 260

Casing Logger 260

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3000

Density / Viscosity 9.2 53

pH / Fluid Loss 11.0 6.4

Source of Sample Flowline

Rm @ Meas. Temp 0.70 @ 84

Rmf @ Meas. Temp 0.53 @ 84

Rmc @ Meas. Temp 0.95 @ 84

Source of Rmf / Rmc Charts

Rm @ BHT 0.48 @ 122

Operating Rig Time 5 Hours

Max Rec. Temp. F 122

Equipment Number 15

Location Hays

Recorded By D.Kerr

Witnessed By Larry Nicholson

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Comments

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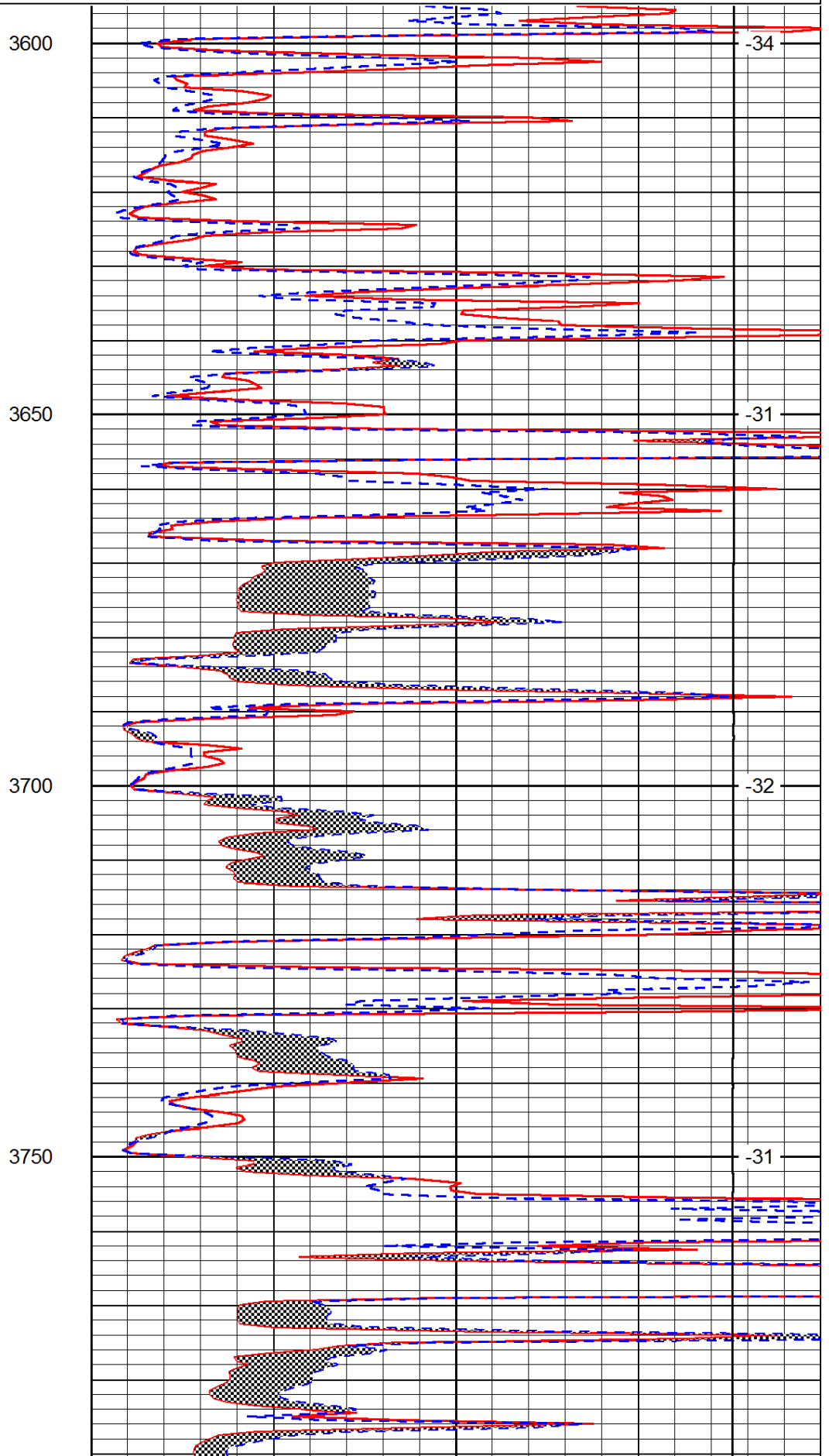
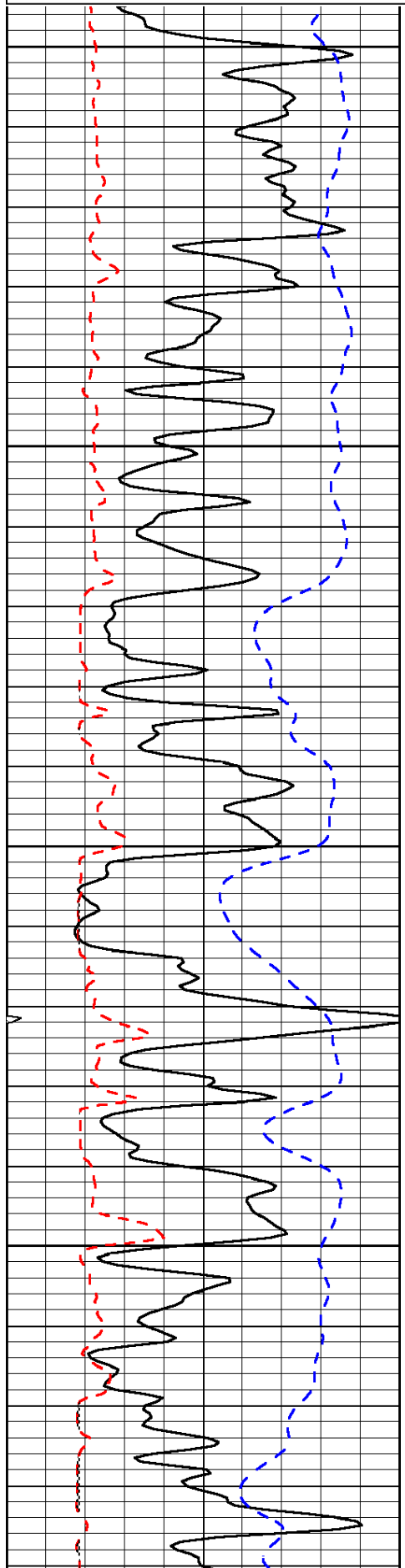
Oakley KS North on HWY 83 to HWY 24,
4 NorthEast to 30 RD, 1 North, East and North Into

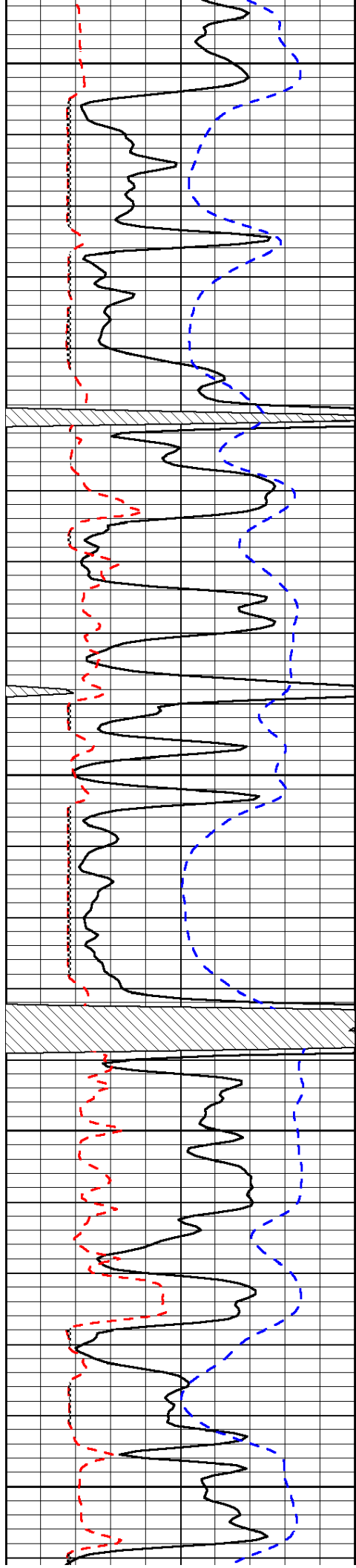
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Dataset Pathname: DIL/csstk
Presentation Format: micro
Dataset Creation: Sat Aug 23 01:14:07 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD





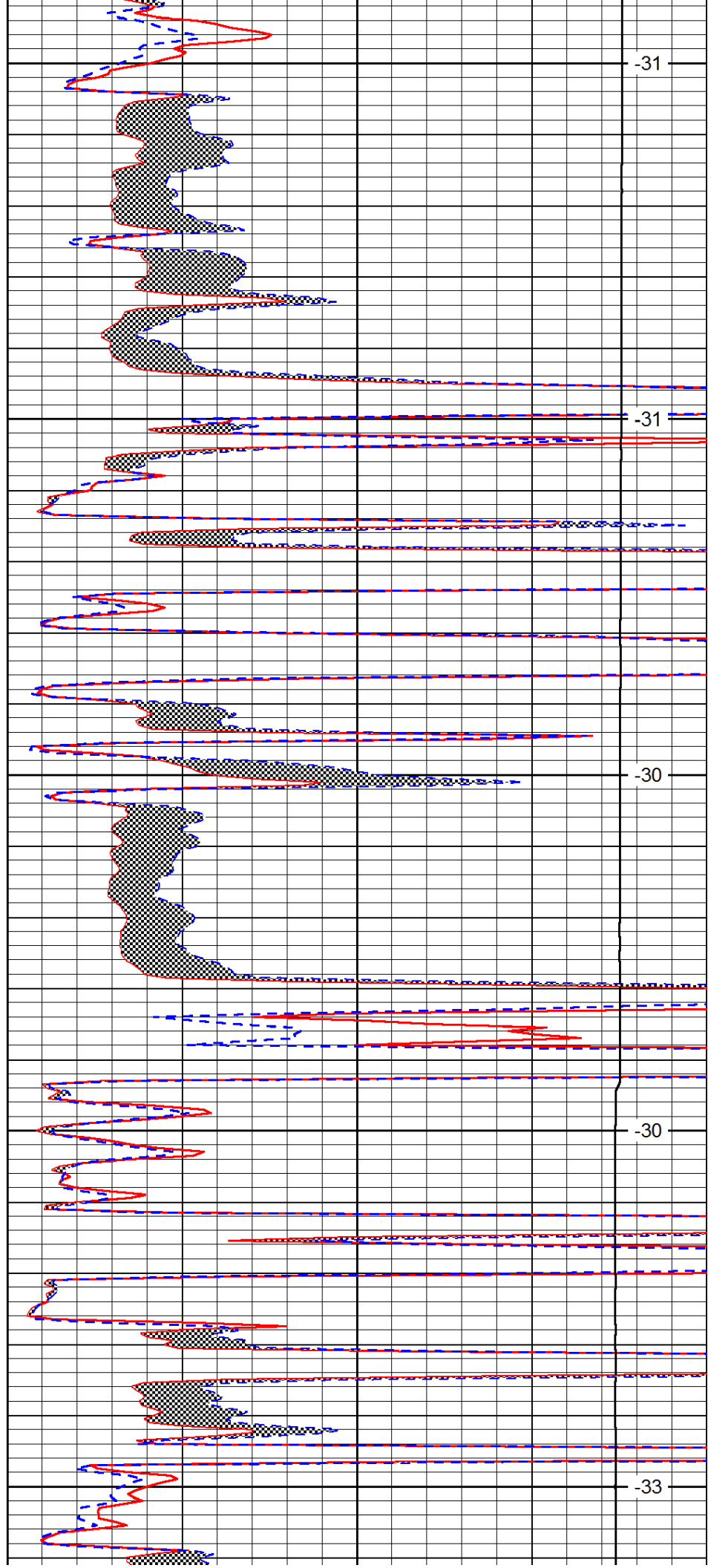
3800

3850

3900

3950

4000



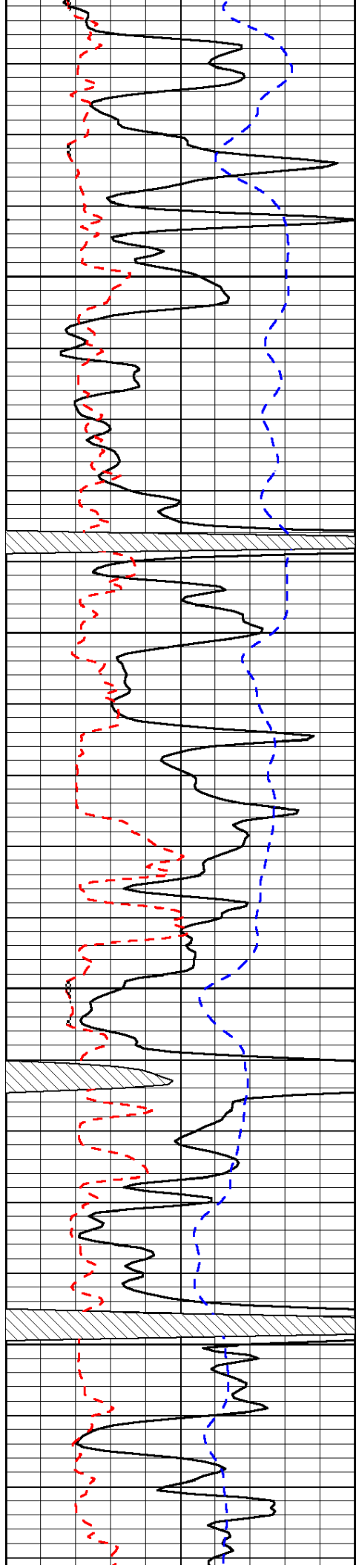
-31

-31

-30

-30

-33

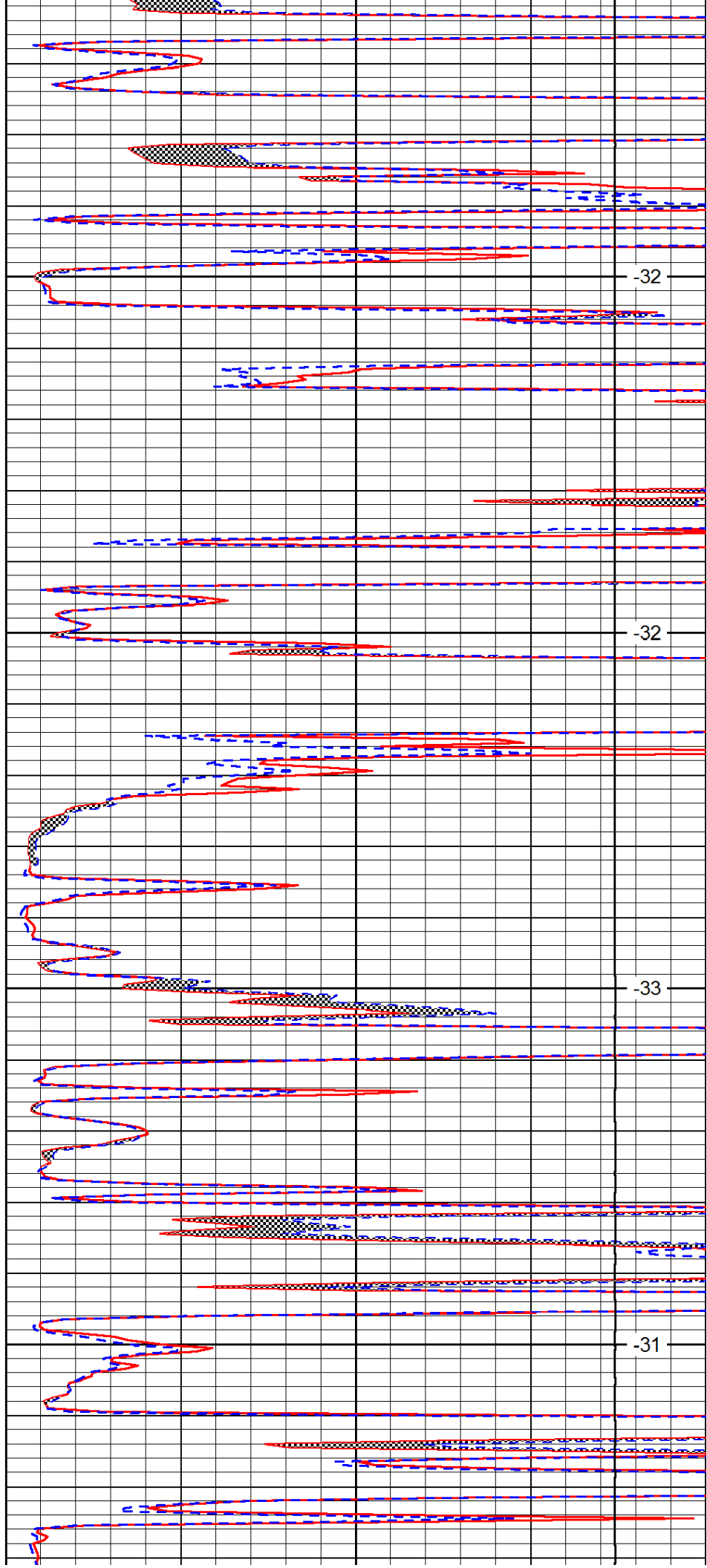


4050

4100

4150

4200

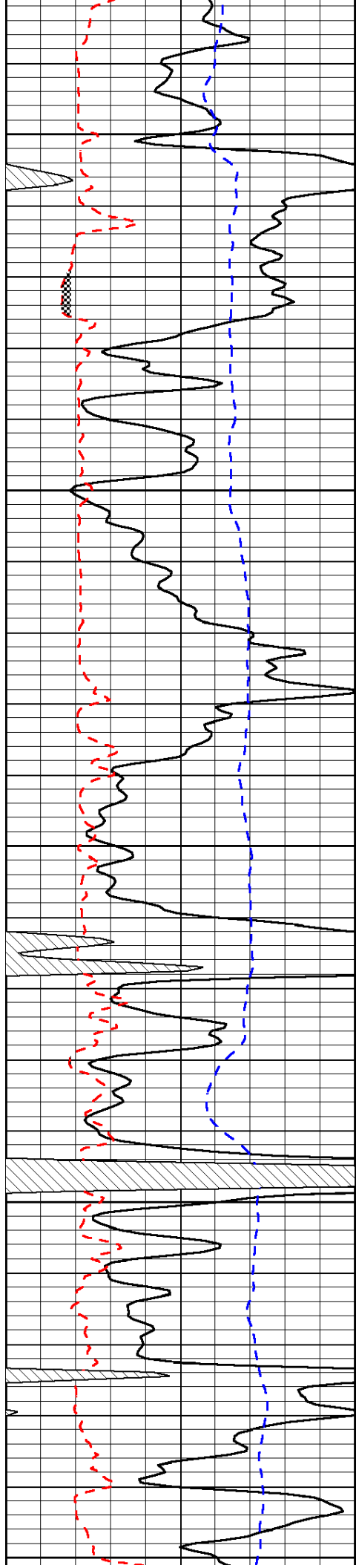


-32

-32

-33

-31



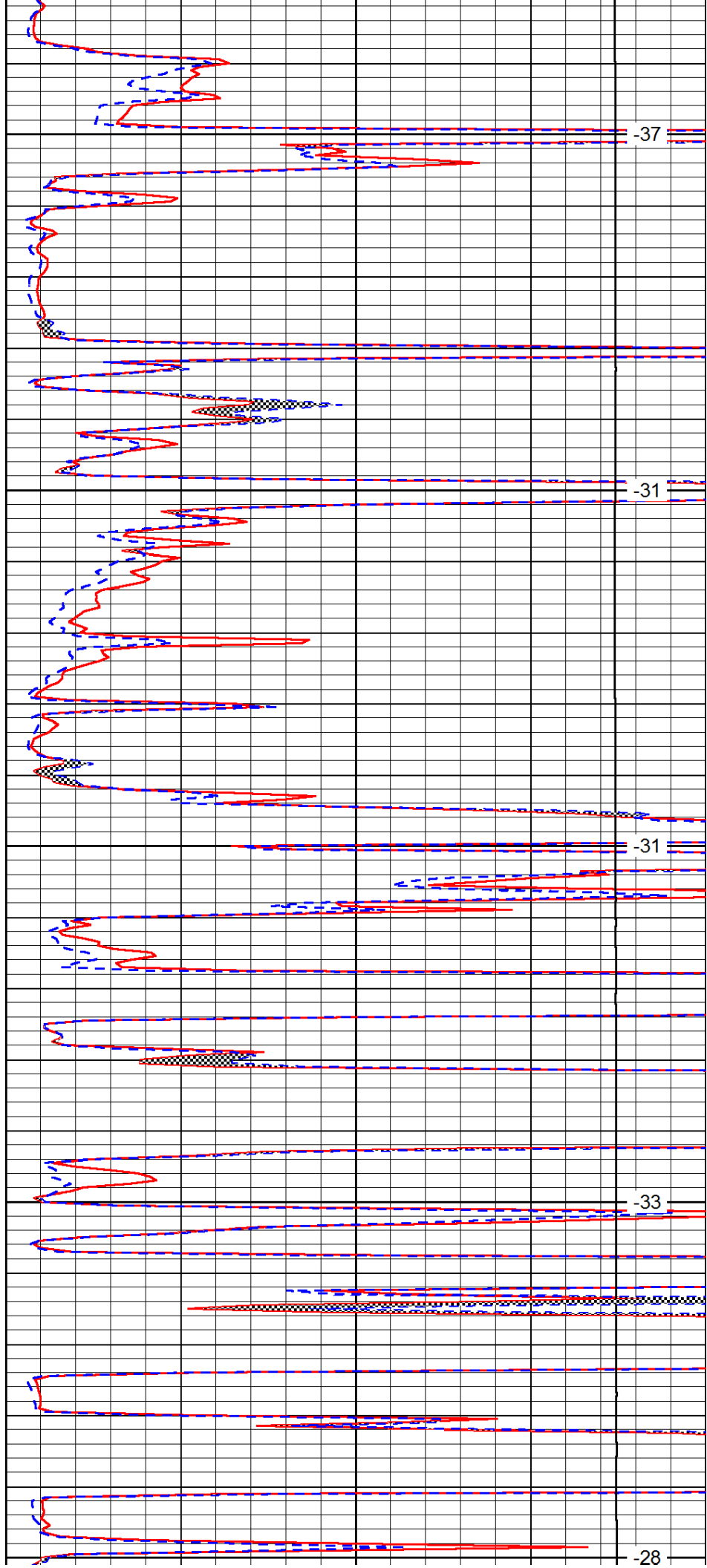
4250

4300

4350

4400

4450



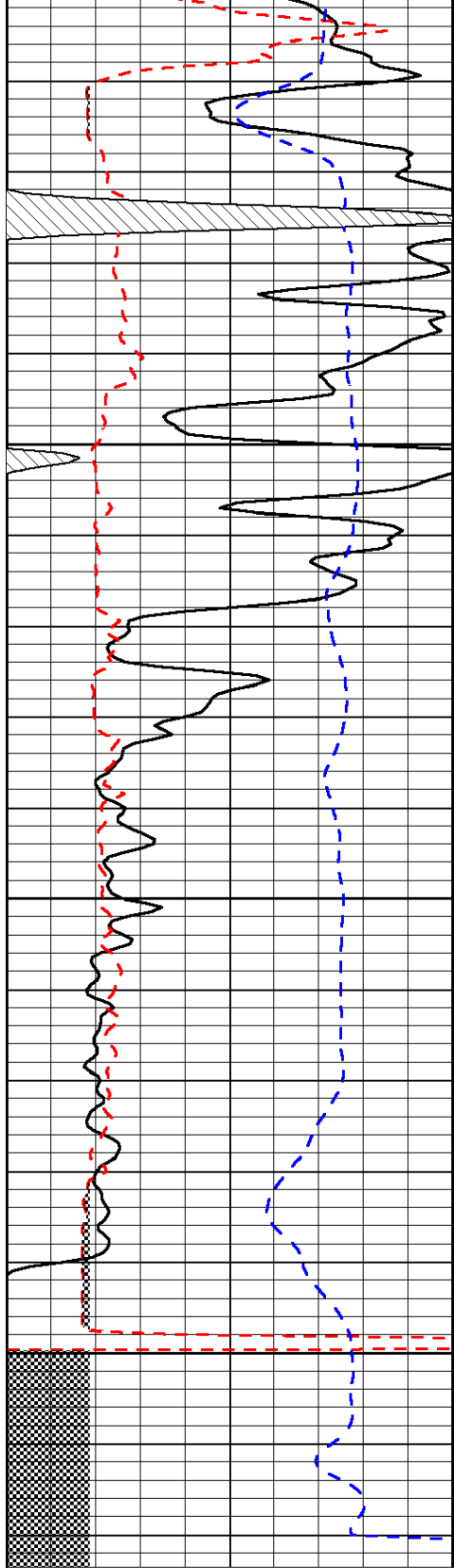
-37

-31

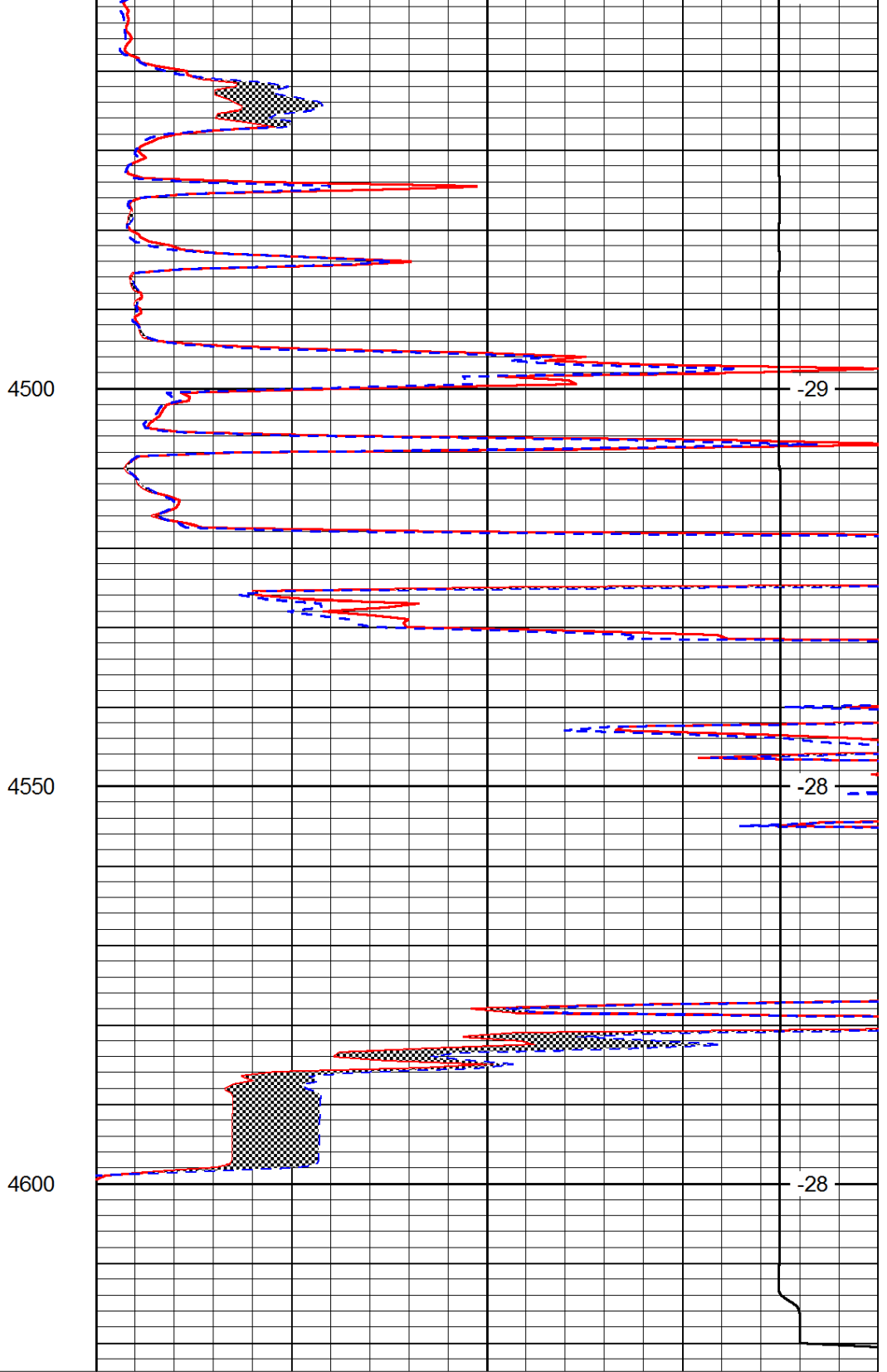
-31

-33

-28



0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0



0	Micro Inverse 1 X 1	40
0	Micro Normal 2''	40
15000	Line Weight	0

LSPD



Pioneer Energy Services

Borehole Compensated Sonic Log

15-193-20,930-00-00

API No.

Company **Carmen Schmitt, Inc.**
 Well **Depe #1-12**
 Field **Wildcat**
 County **Thomas** State **Kansas**

Location **SE SW NE NW
1212' FNL & 1663' FWL**
 Sec: **12** Twp: **7S** Rge: **32W**

Other Services
CNL/CDL
MEL/DIL

Permanent Datum **Ground Level** Elevation **2991**
 Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
K.B. 2996
D.F. G.L. 2991

Date	8/22/2014	
Run Number	Two	
Type Log	BHC Sonic	
Depth Driller	4610	
Depth Logger	4614	
Bottom Logged Interval	4603	
Top Logged Interval	250	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	3000	
Density	9.2	
Level	Full	
Max. Rec. Temp. F	122	
Operating Rig Time	5 Hours	
Equipment -- Location	15 Hays	
Recorded By	D Kerr	
Witnessed By	Larry Nicholson	

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	260	8.625	24#	00	260
2	7.875	260	4610				

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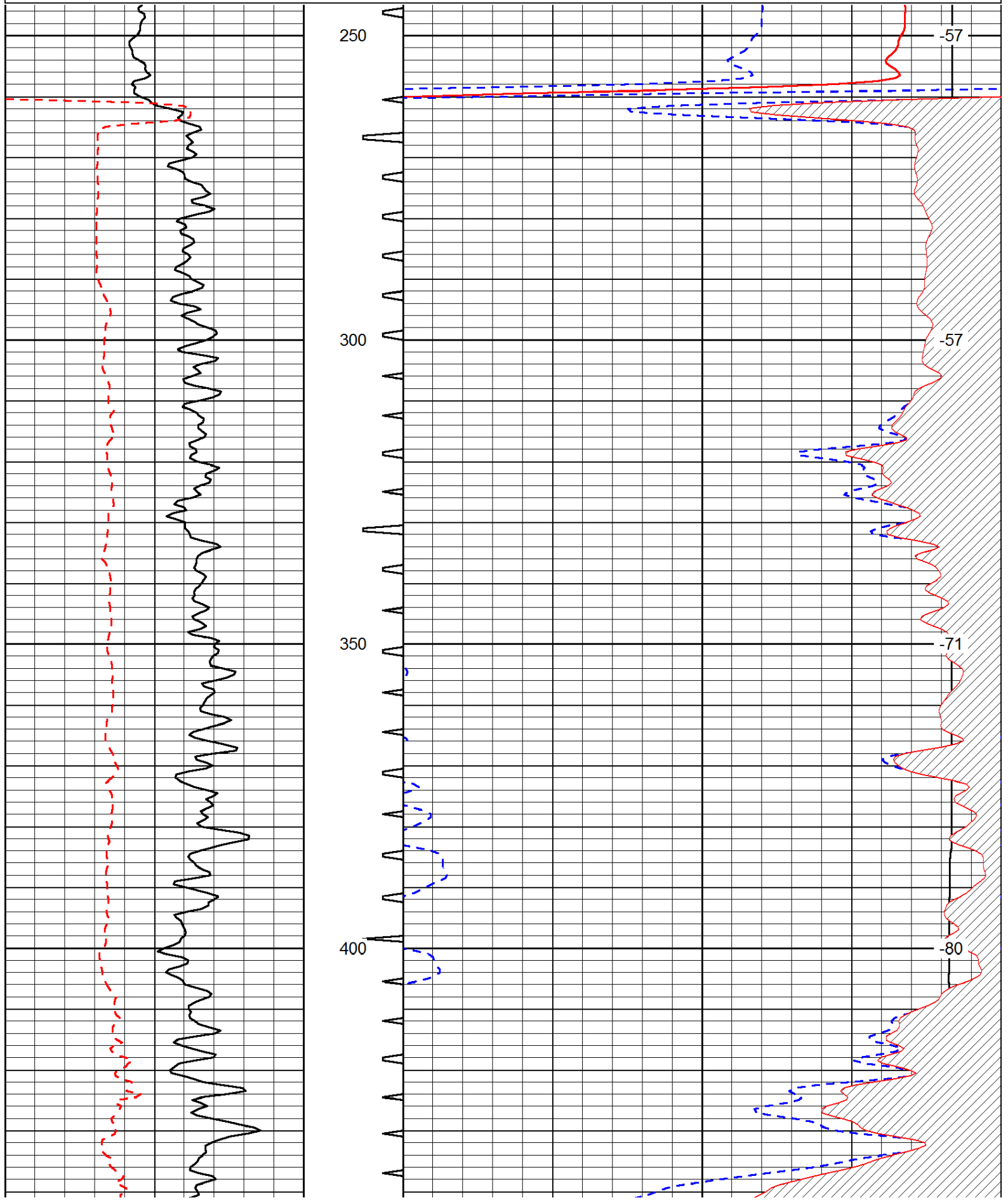
Comments

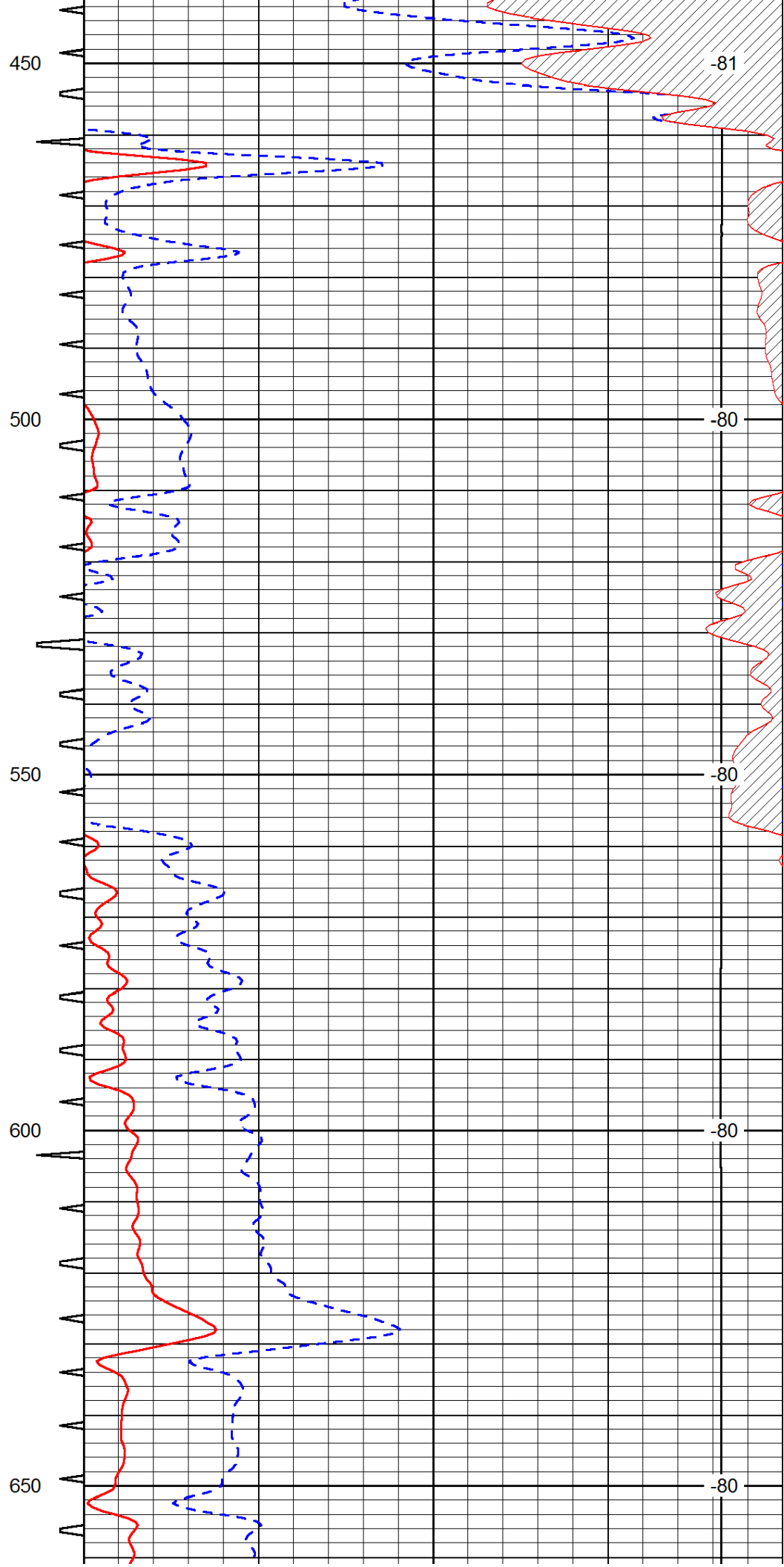
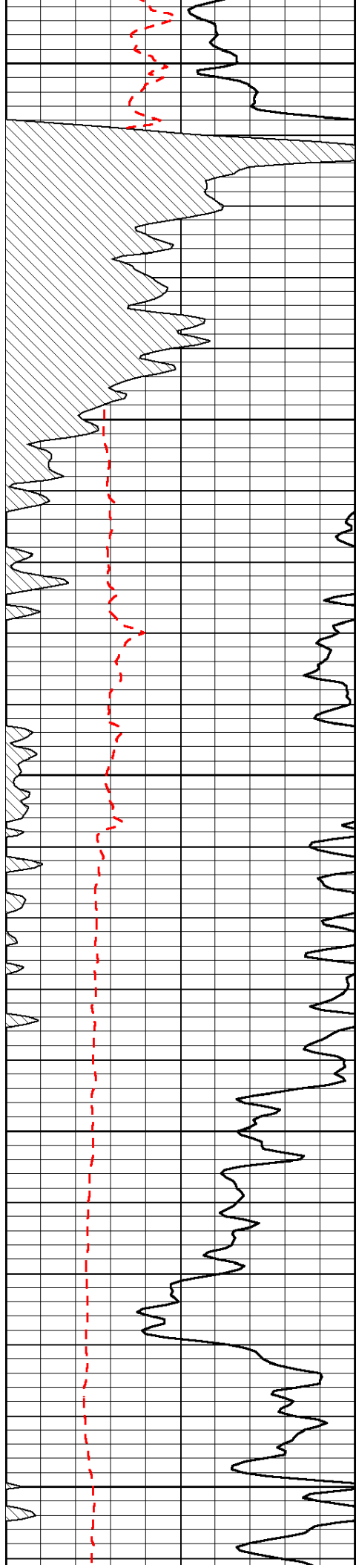
Thank you for using Pioneer Energy Services
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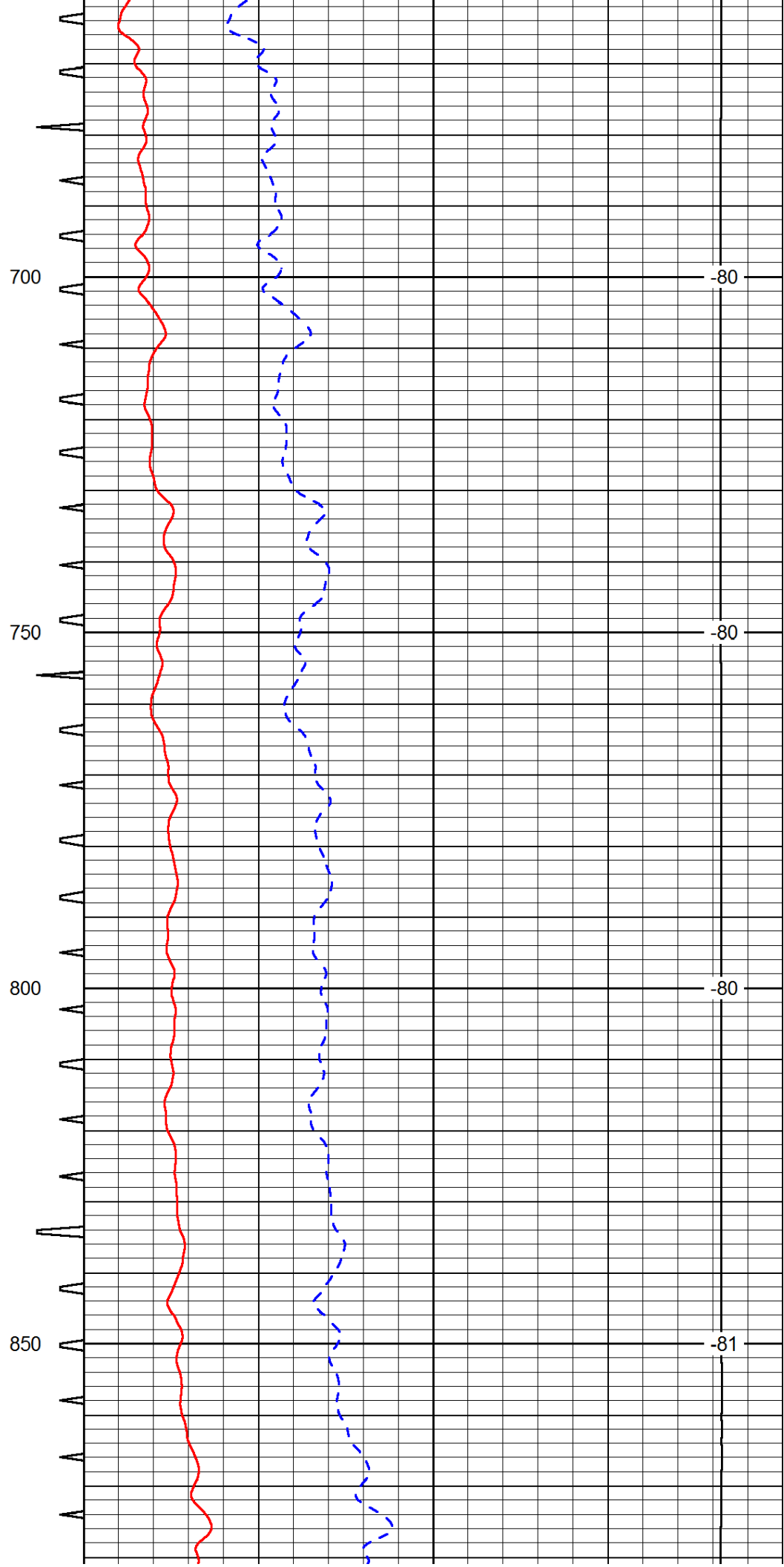
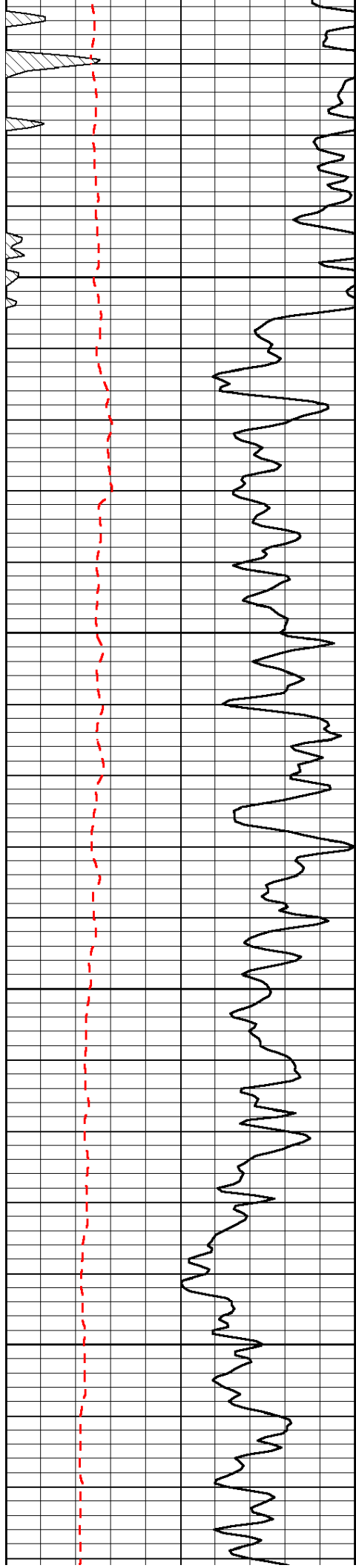
Oakley KS North on HWY 83 to HWY 24,
 4 NorthEast to 30 RD, 1 North, East and North Into

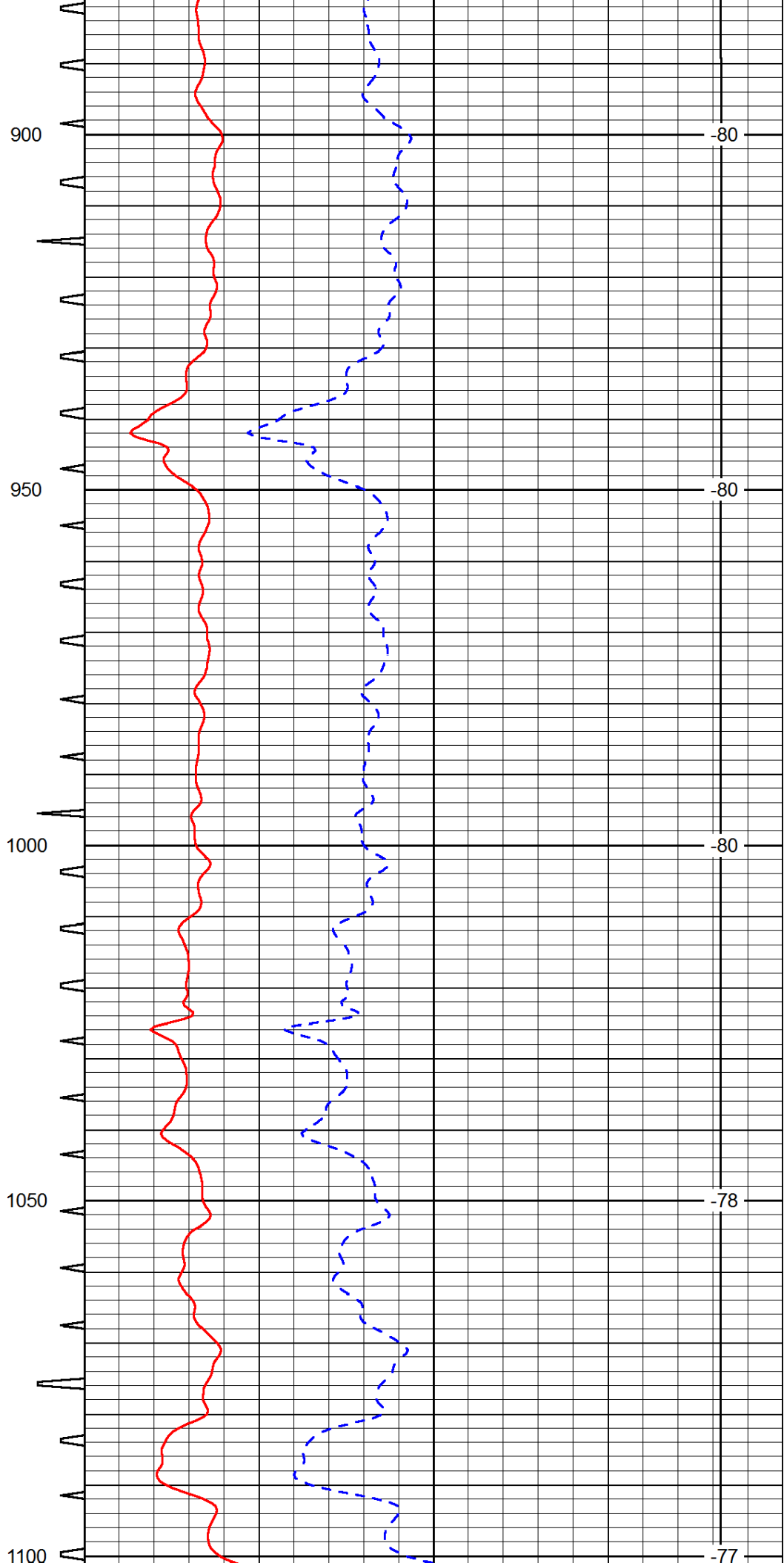
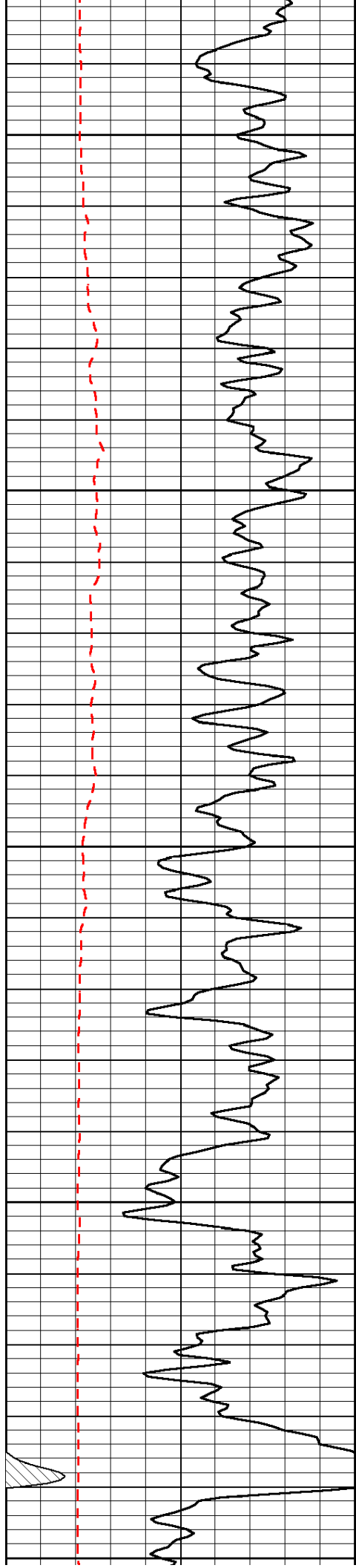
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150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

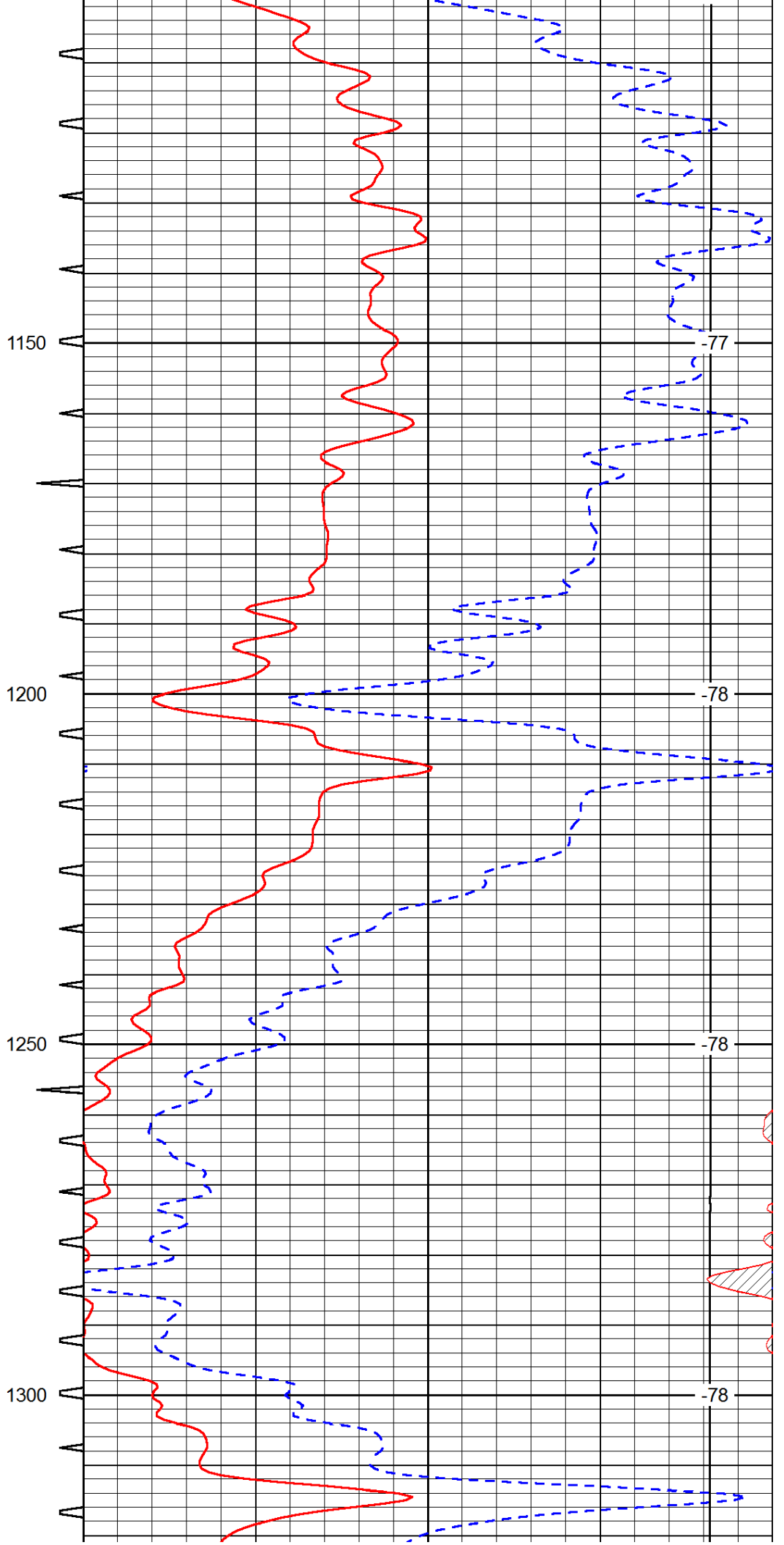
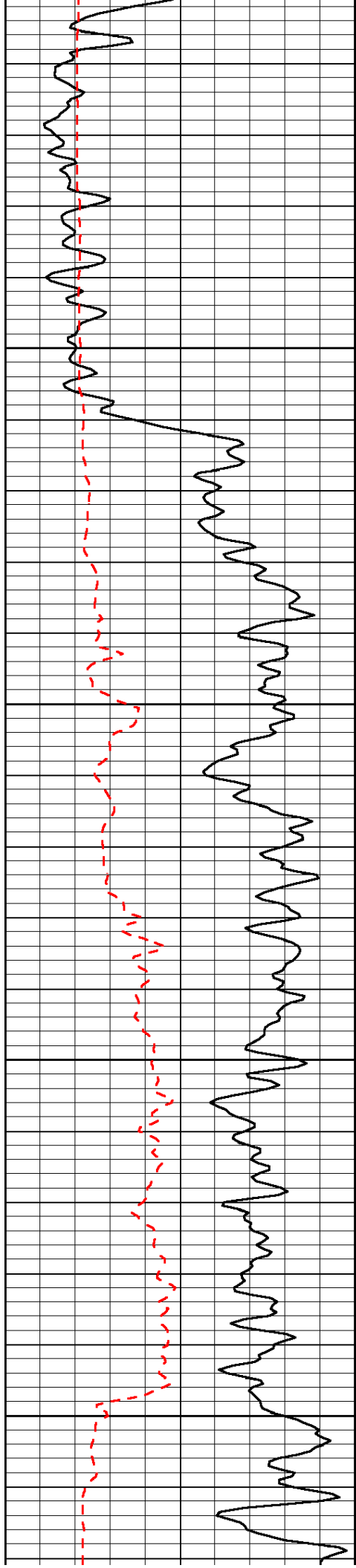
LSPD

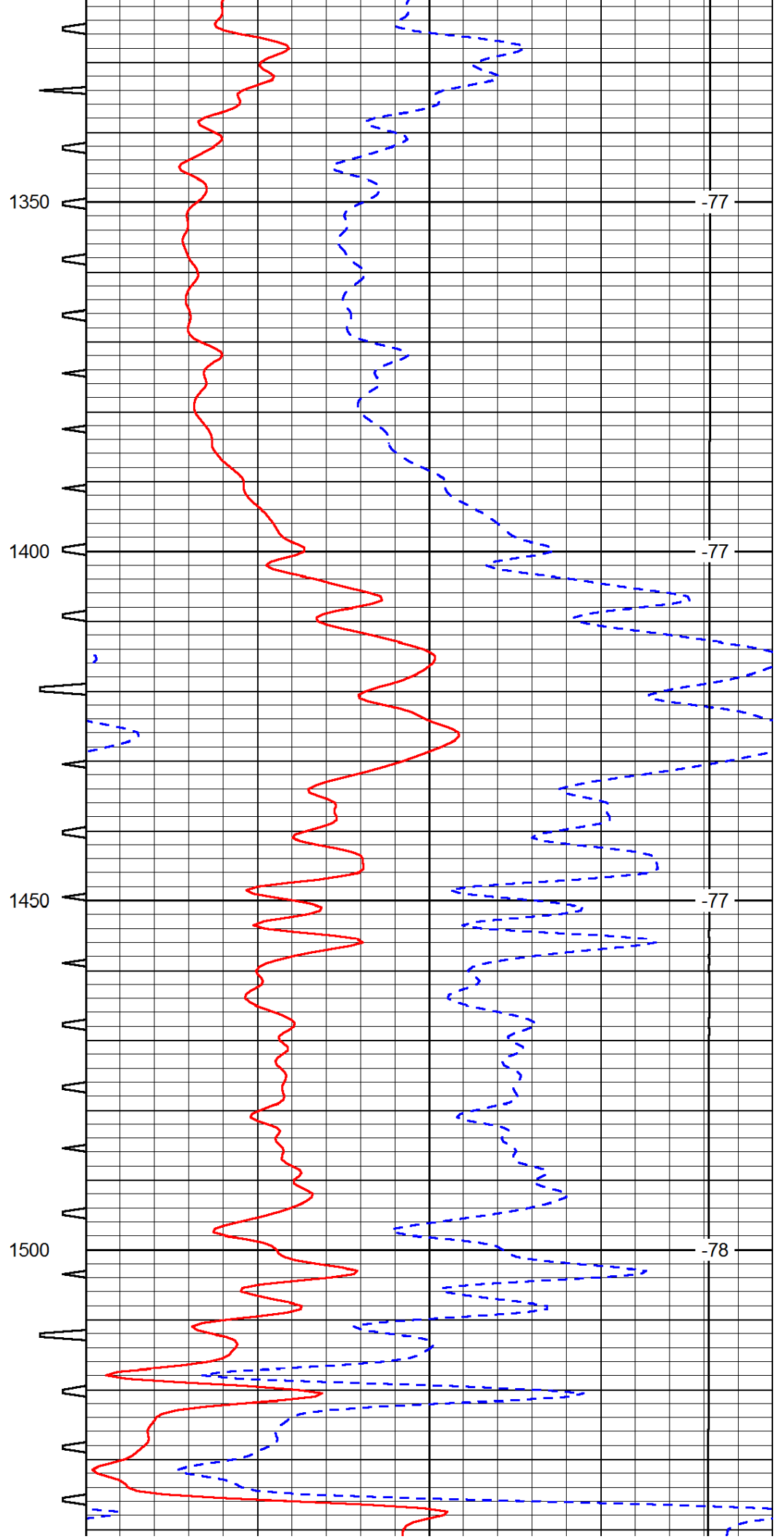
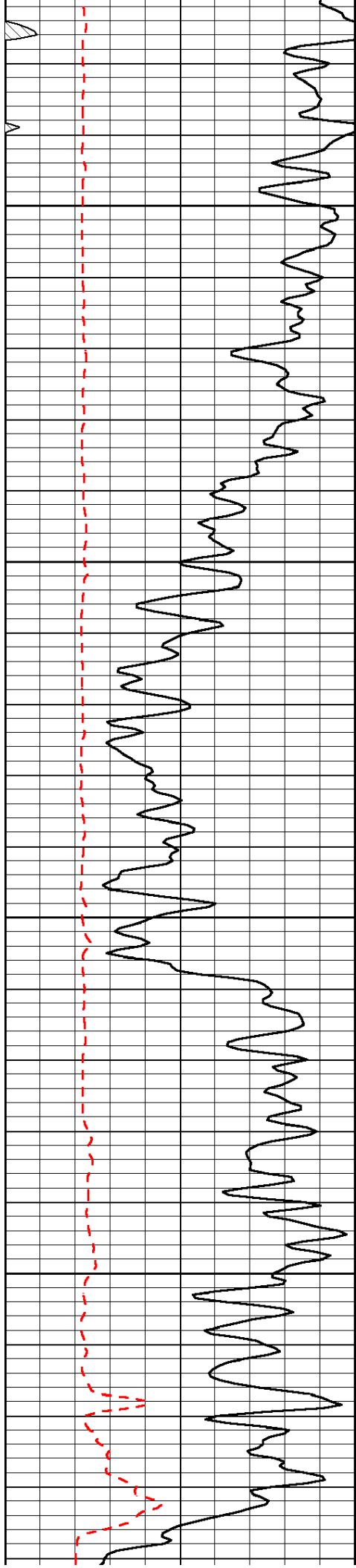


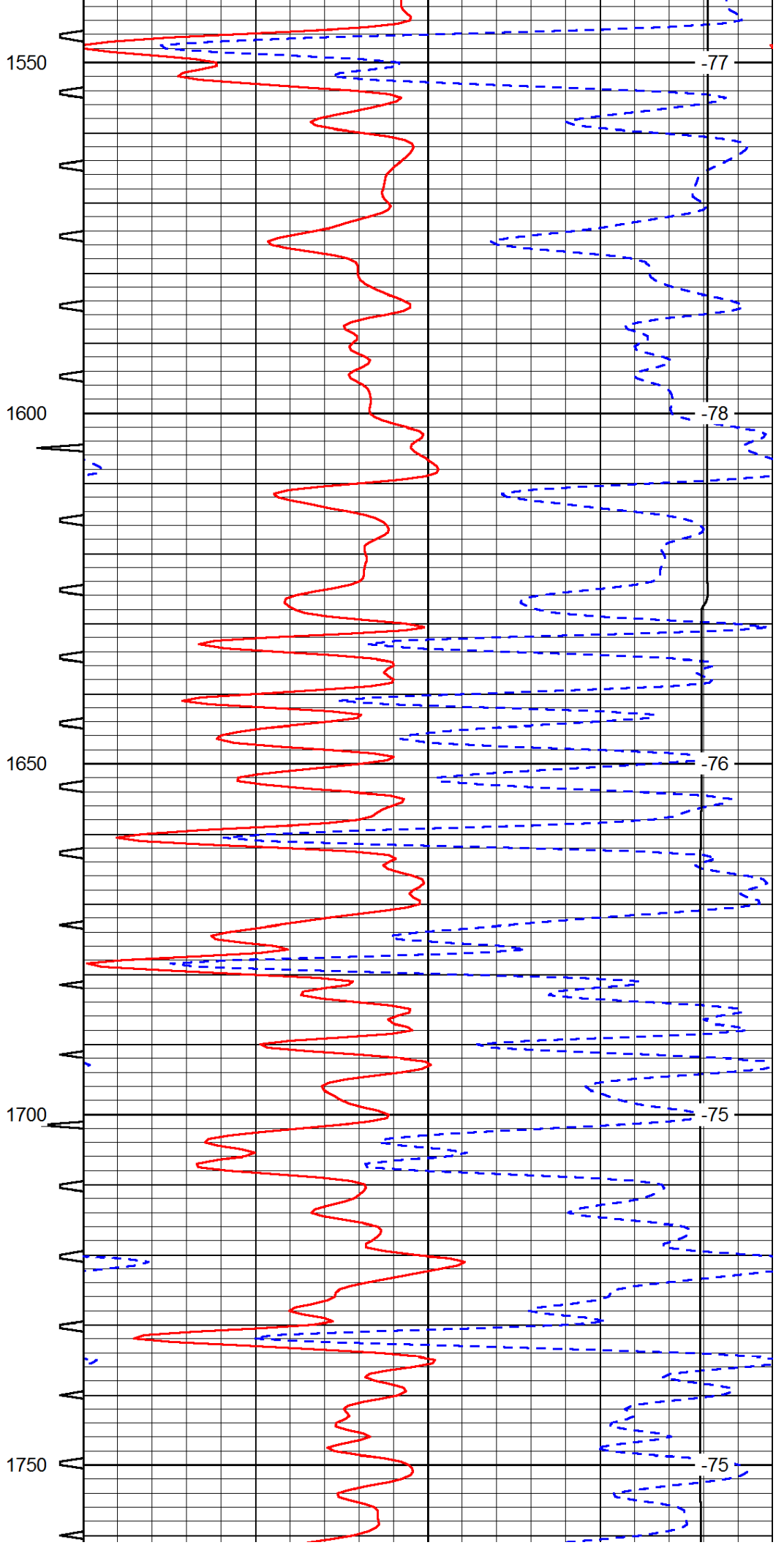
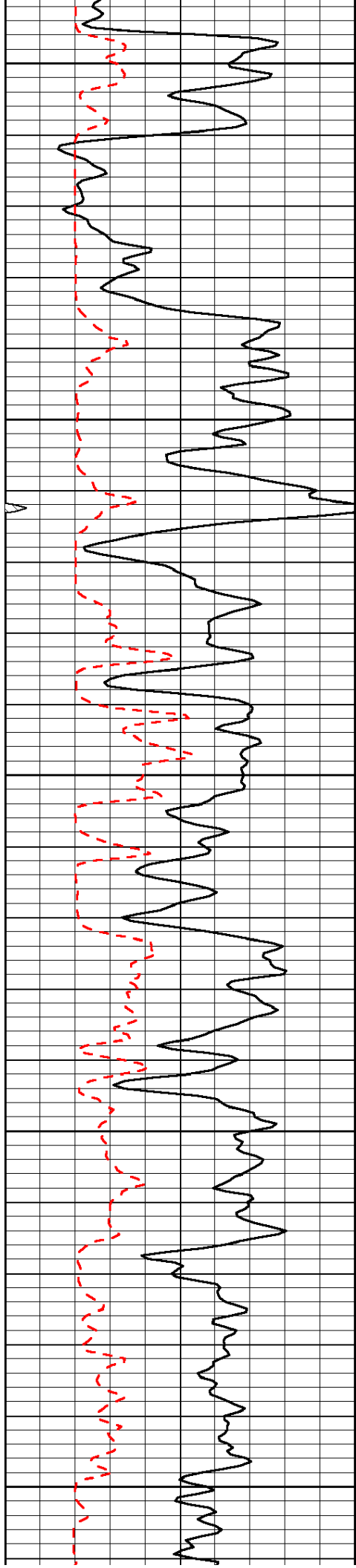


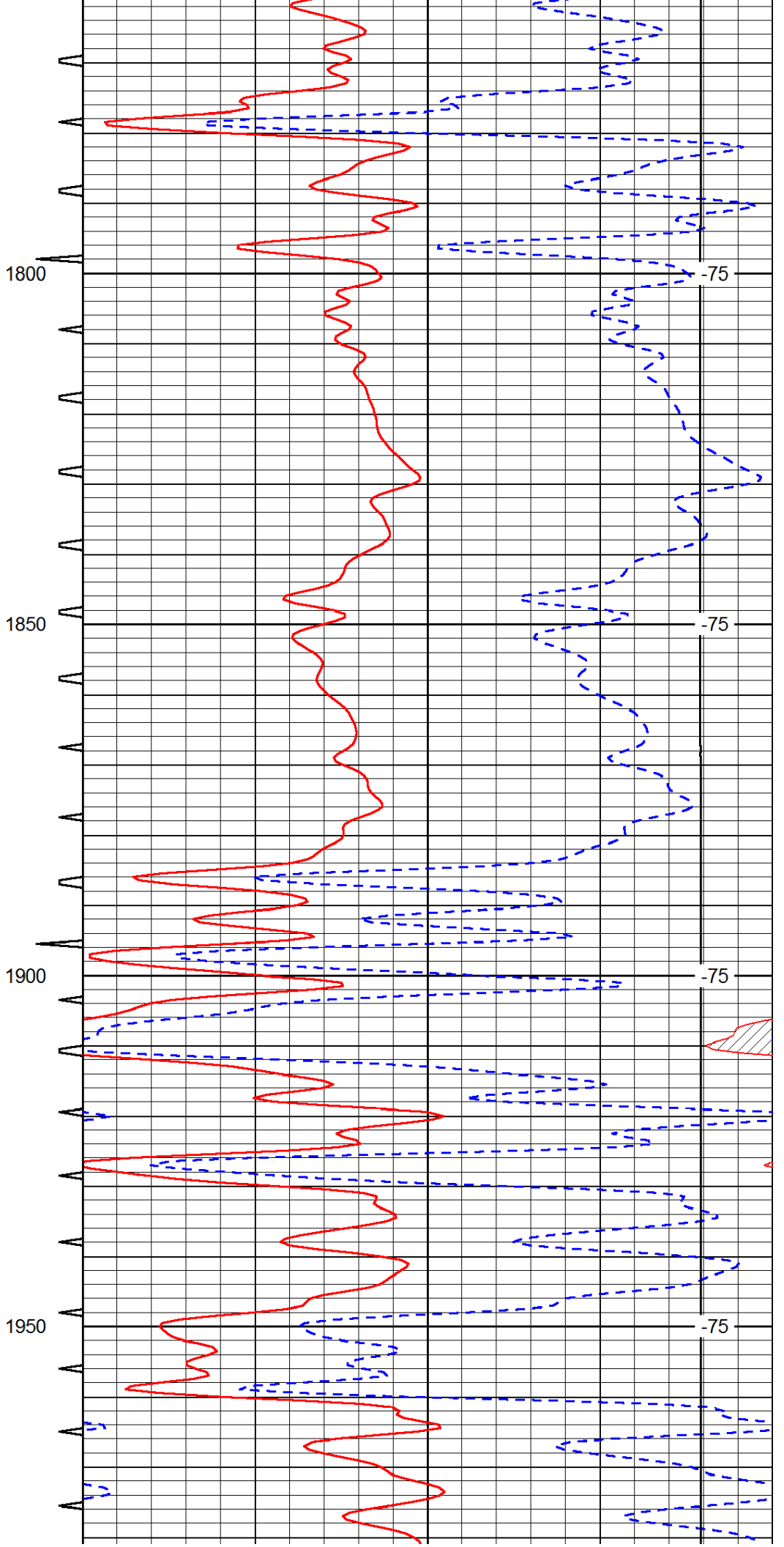
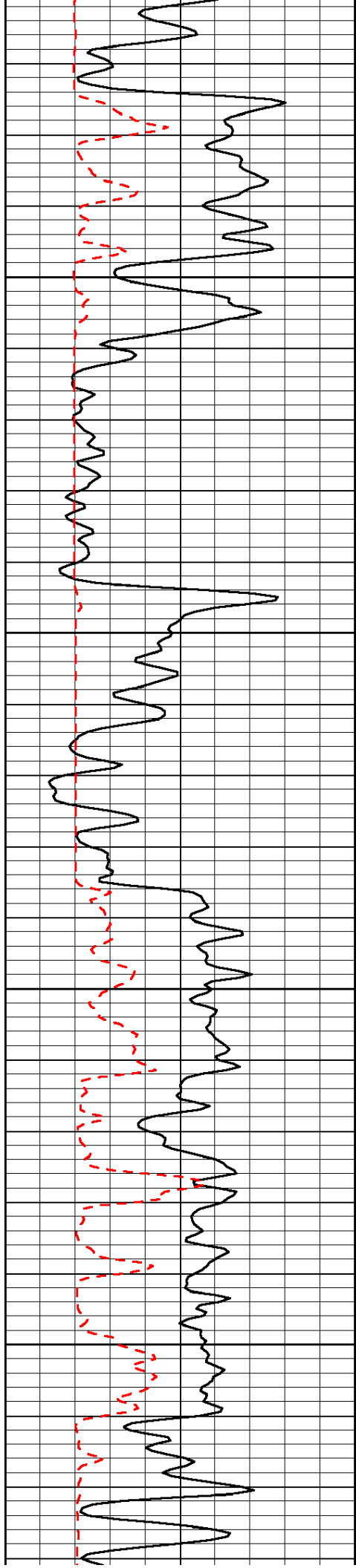


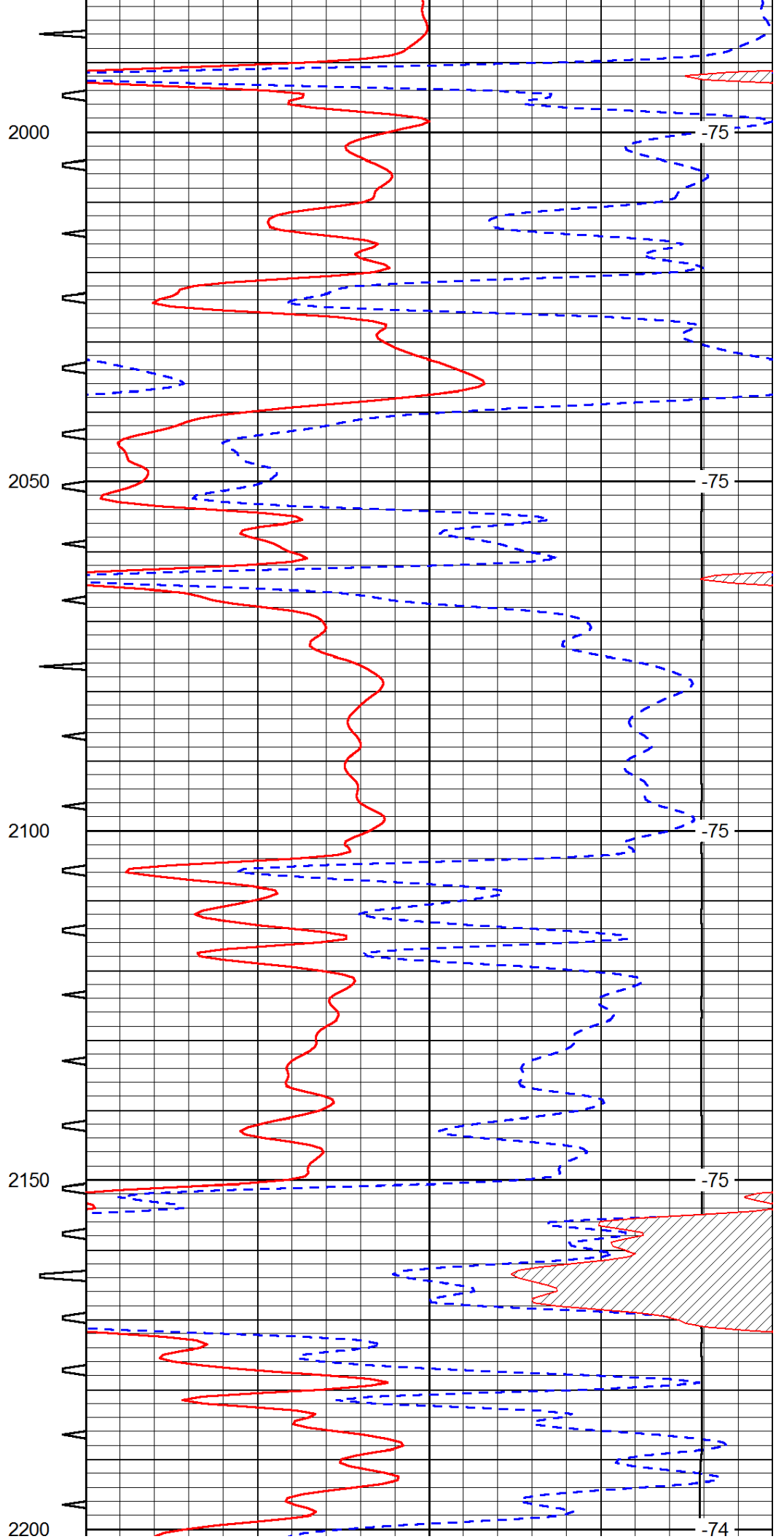
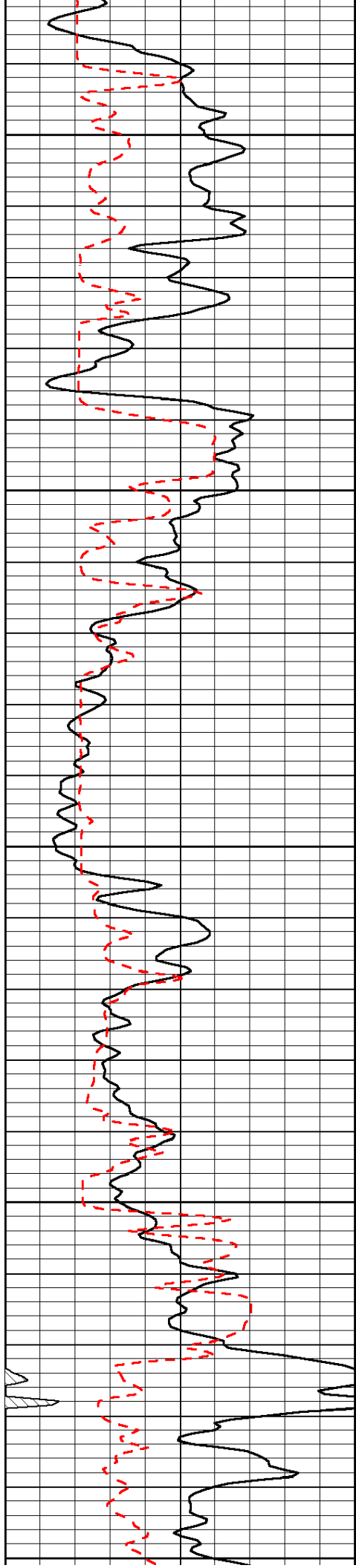


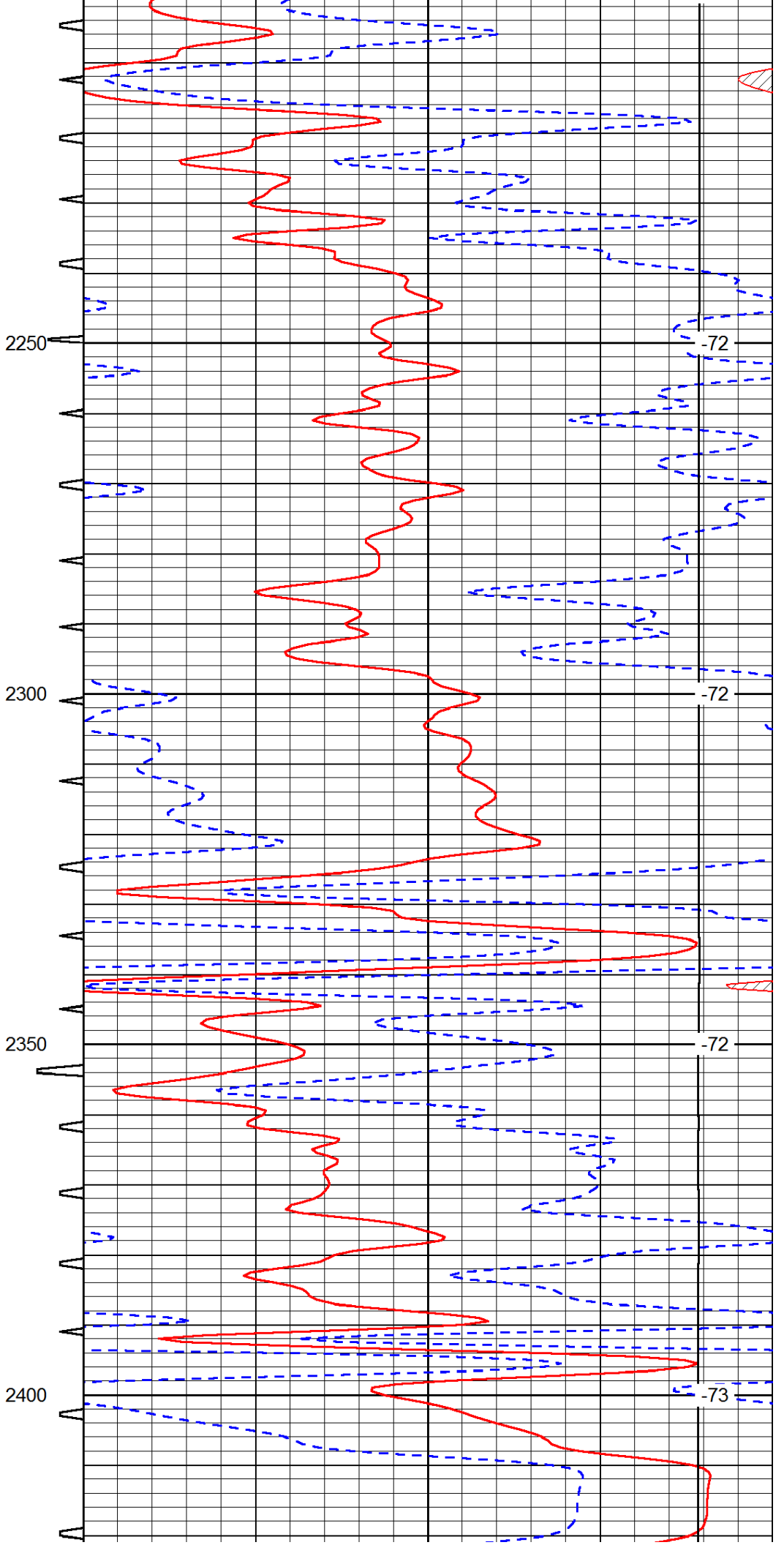
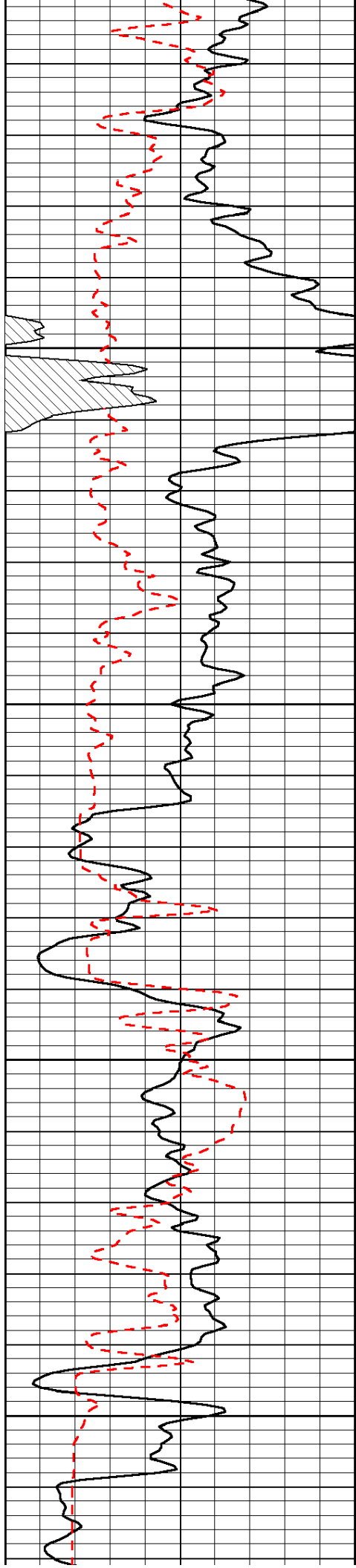


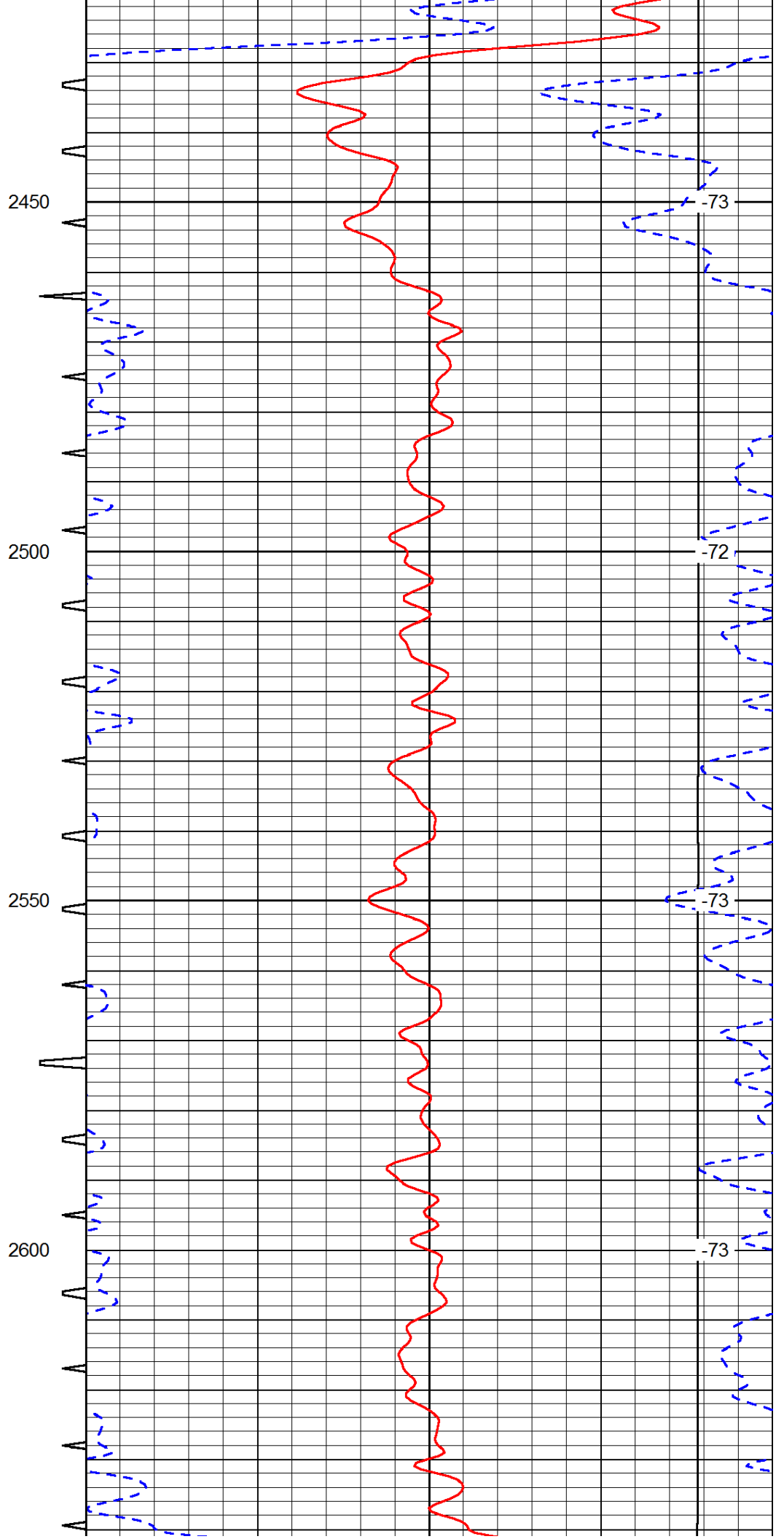
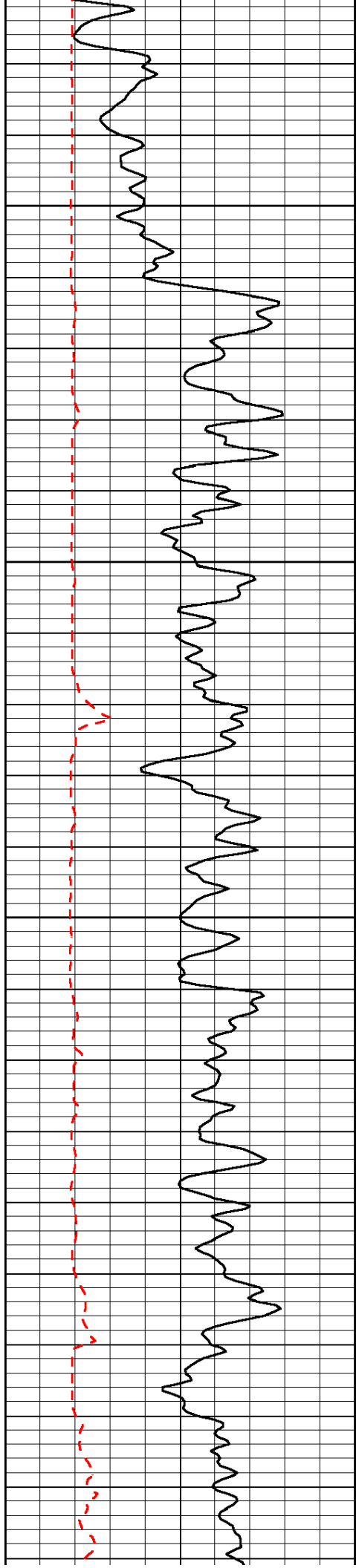


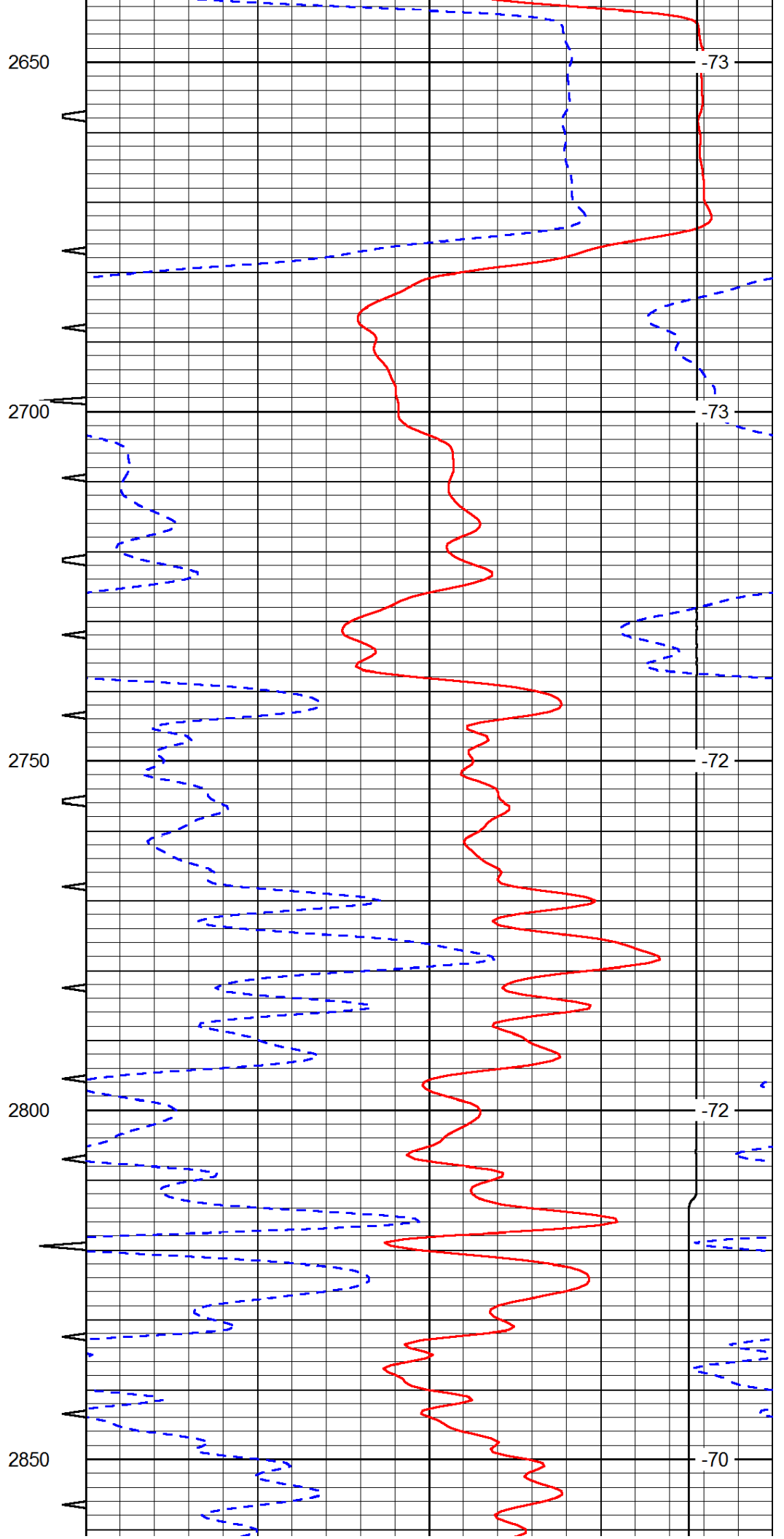
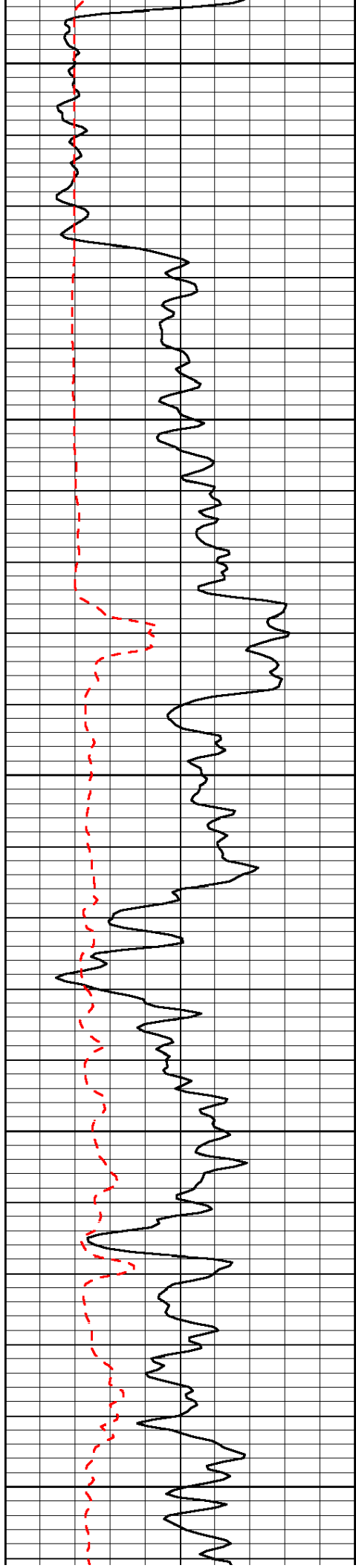


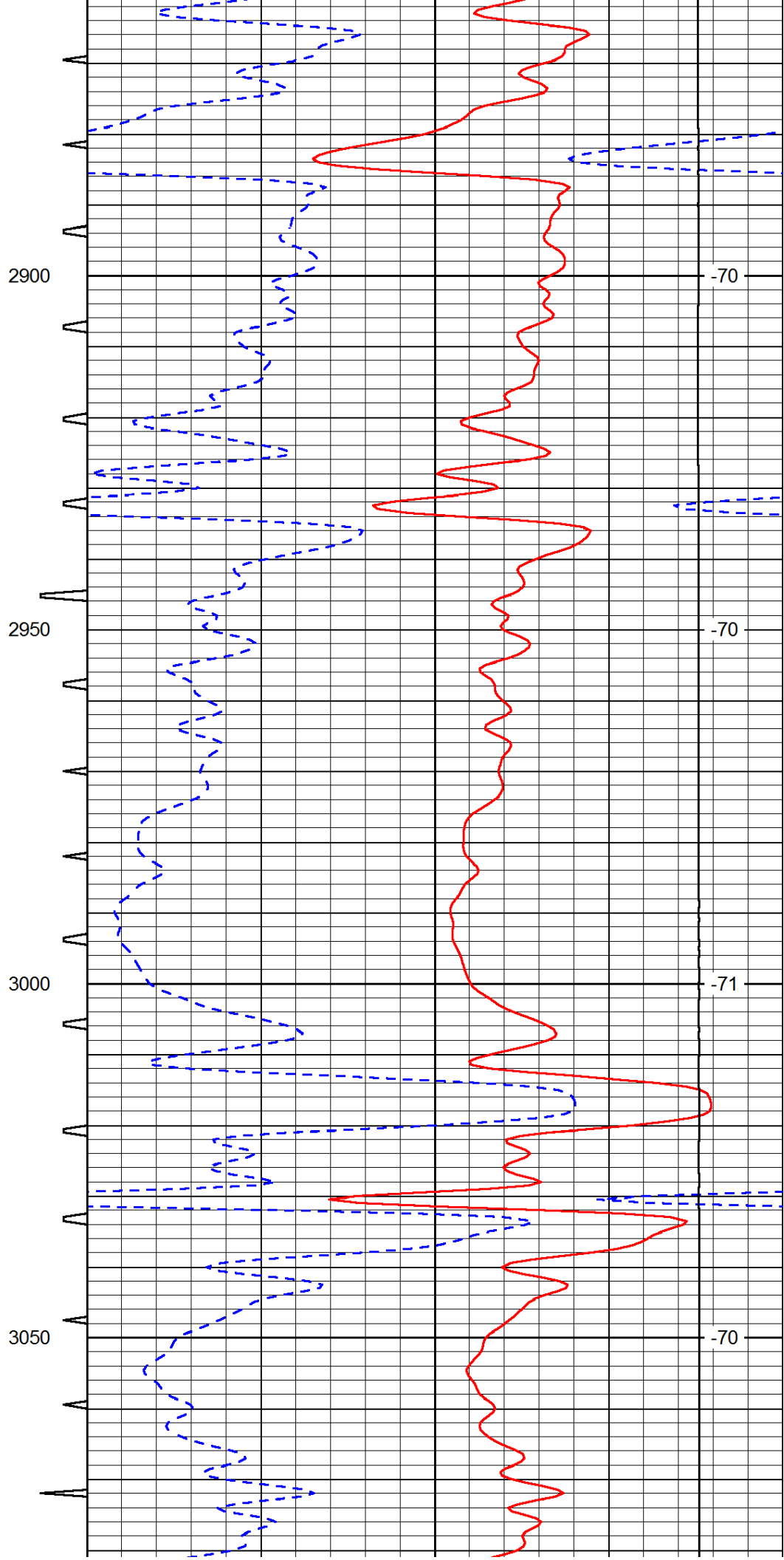
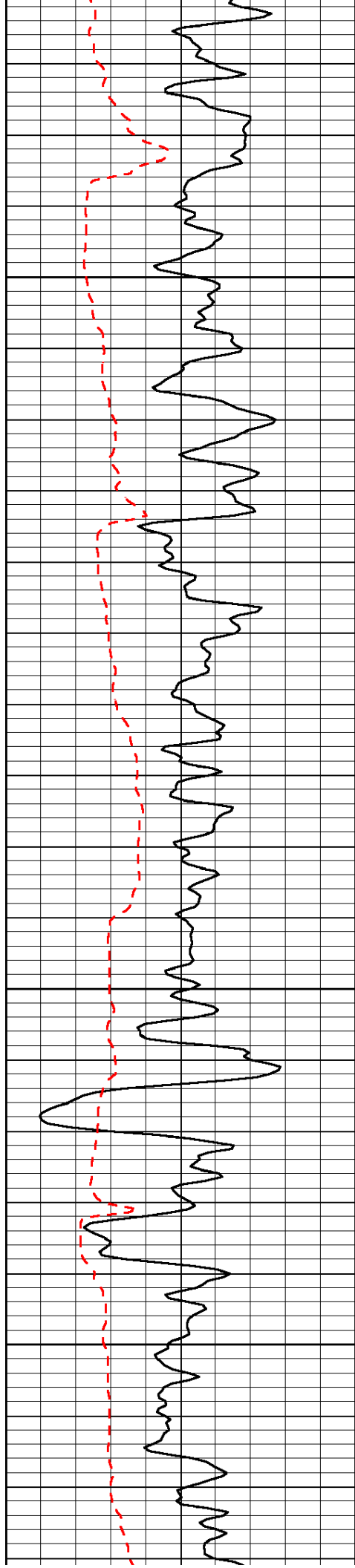


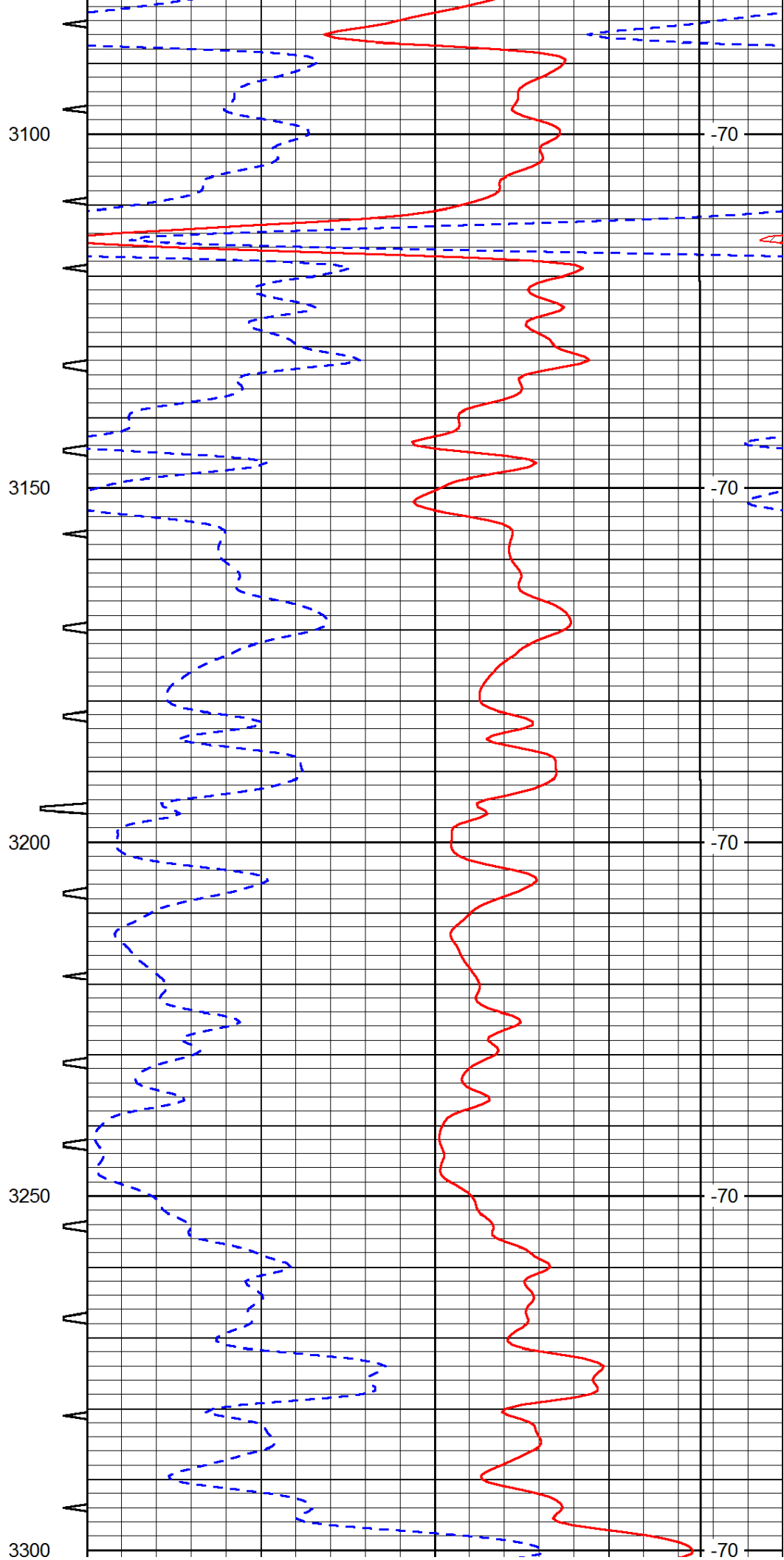
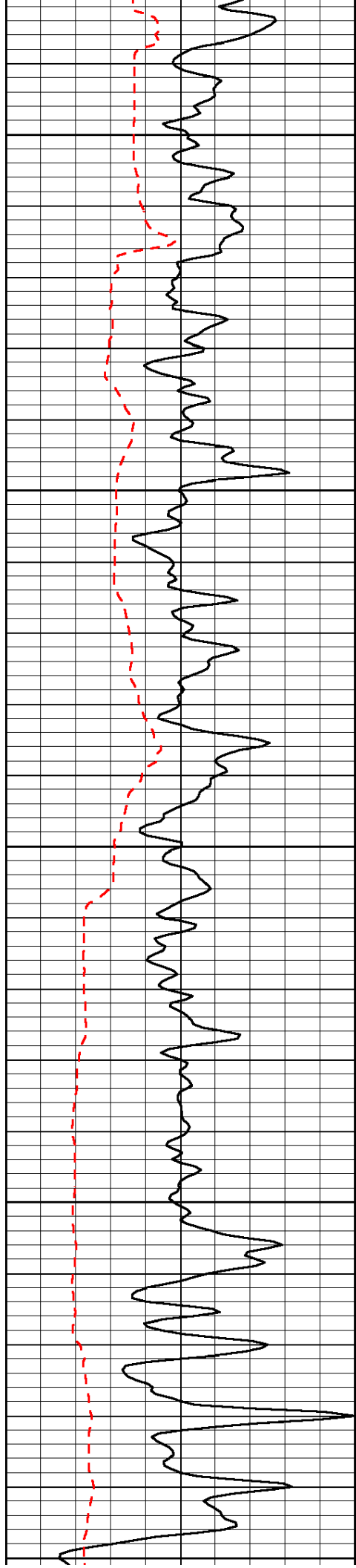


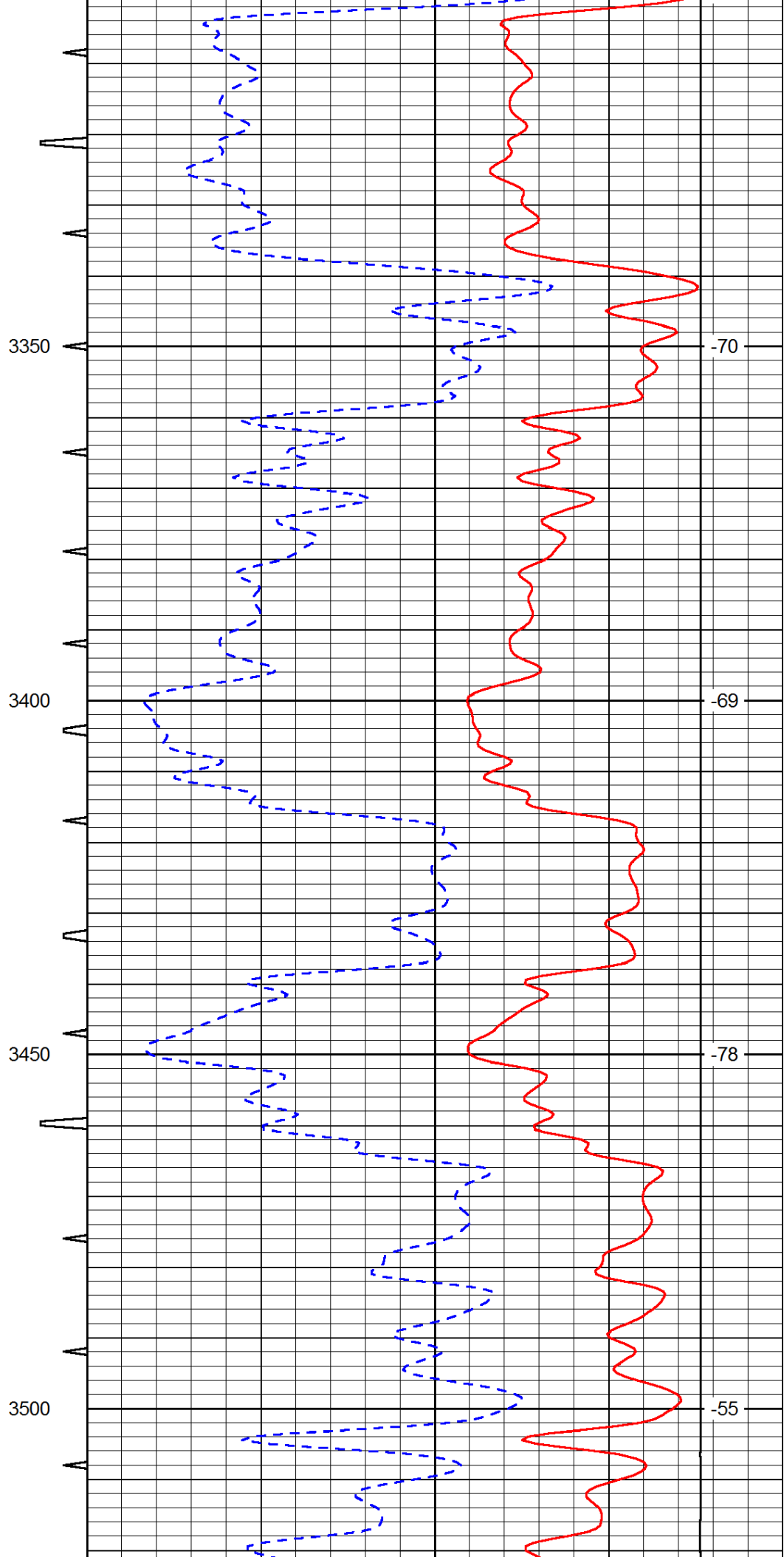
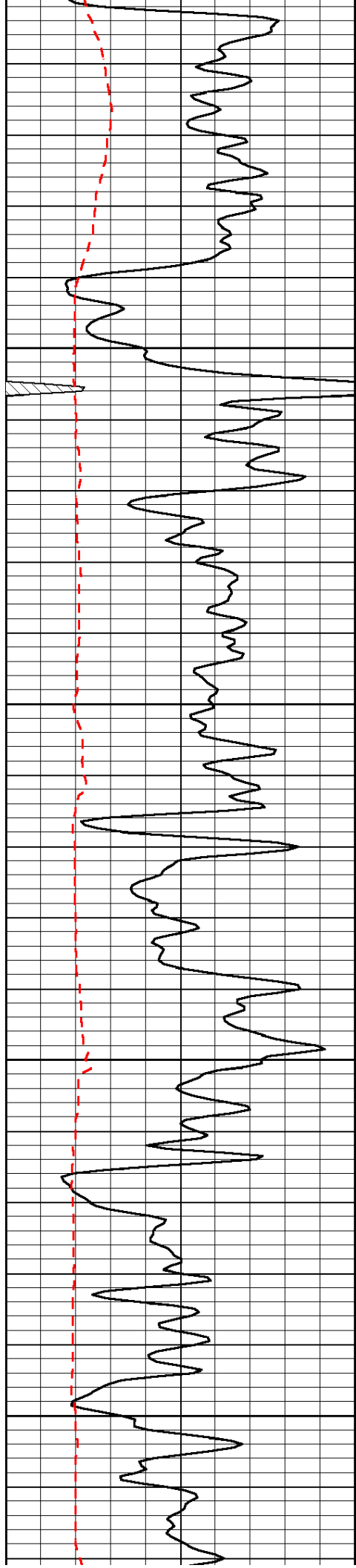


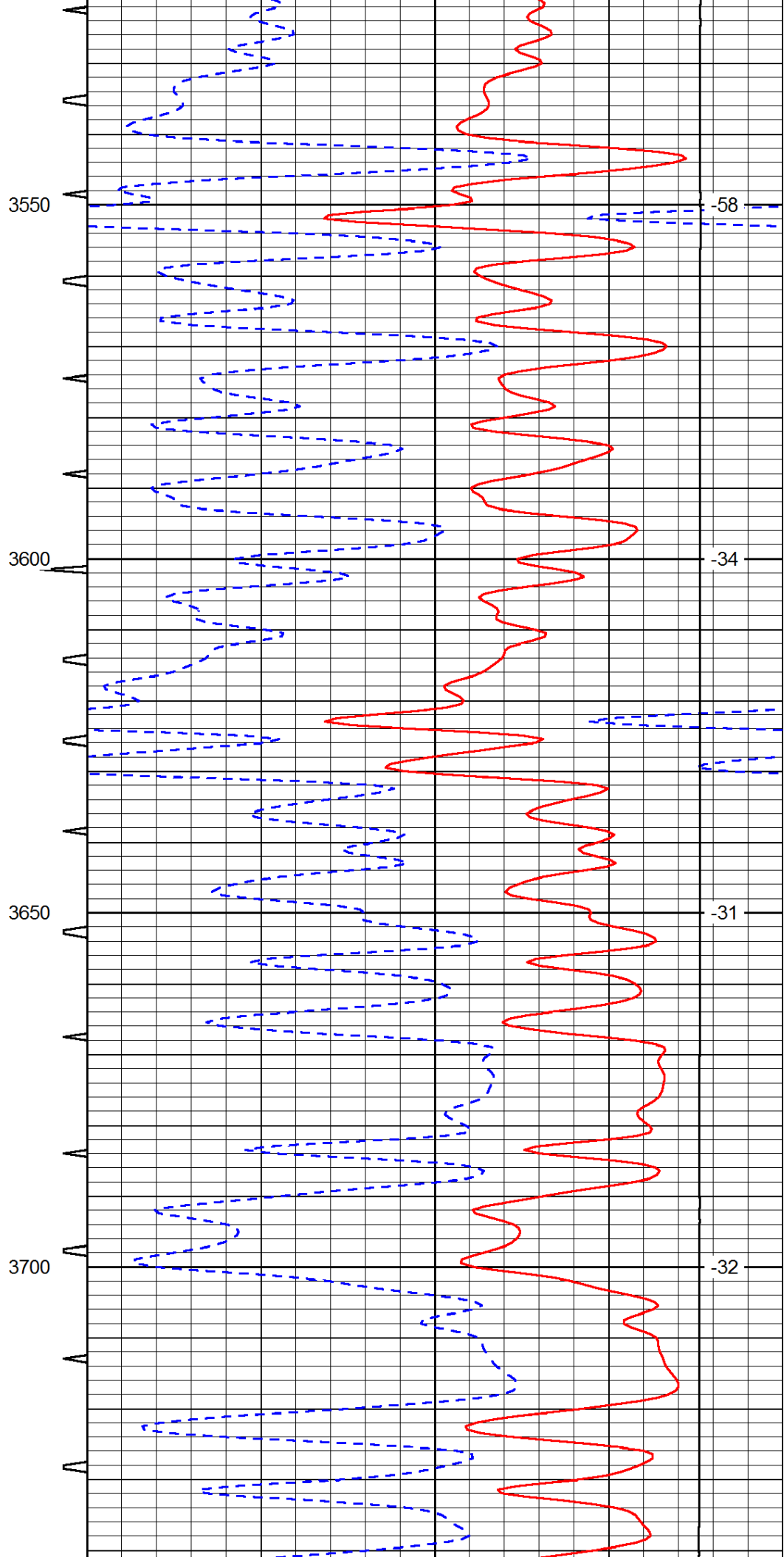
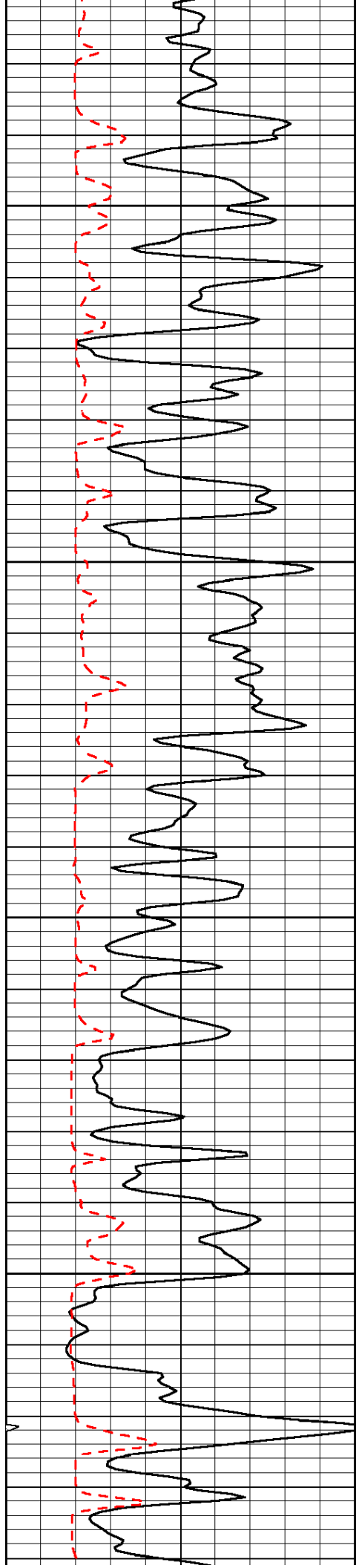


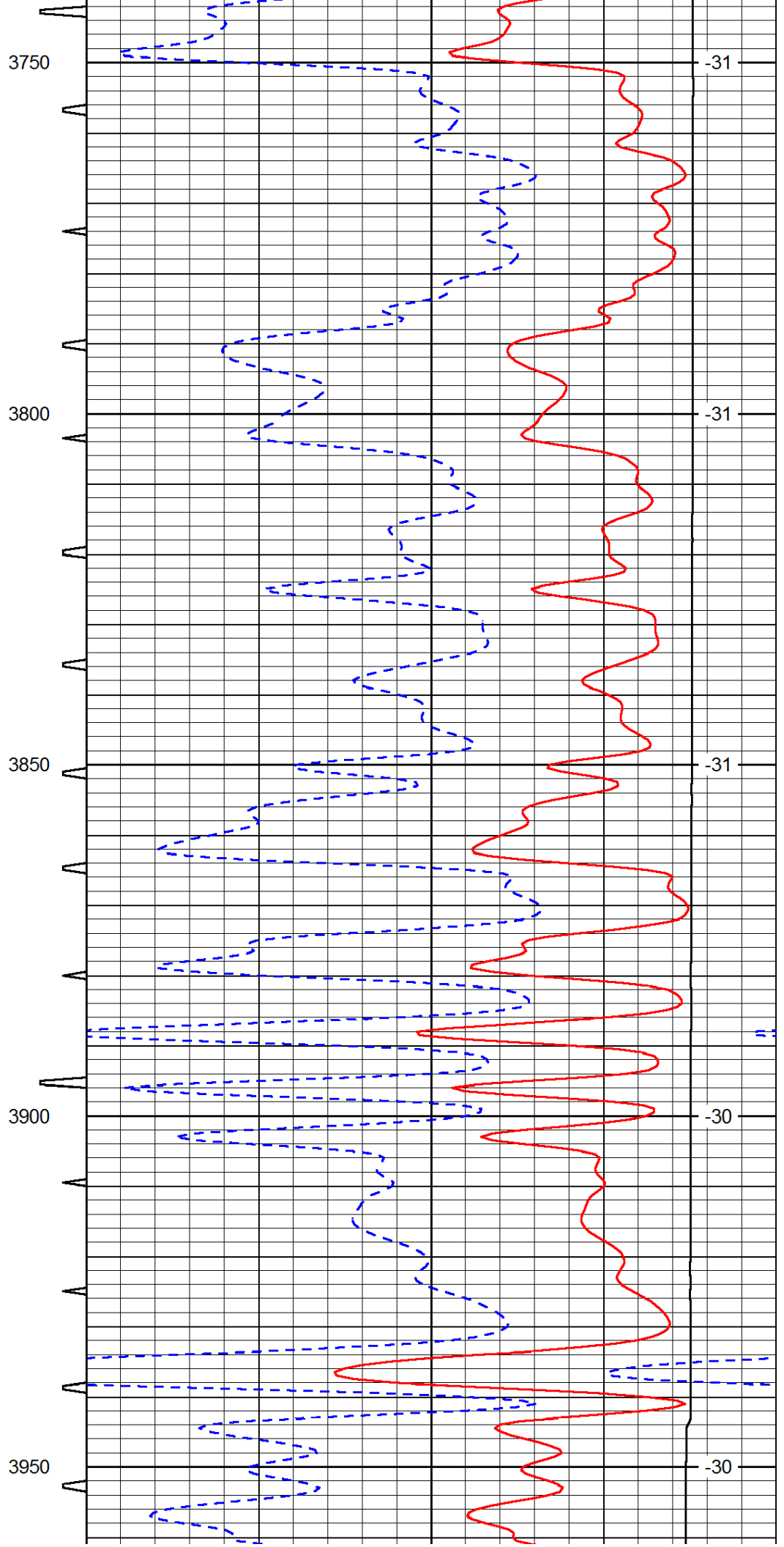
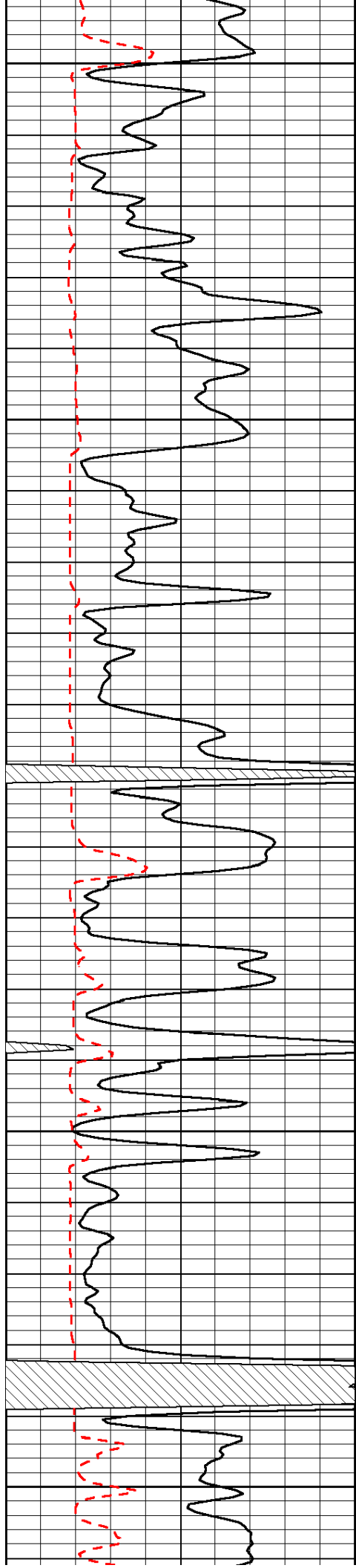


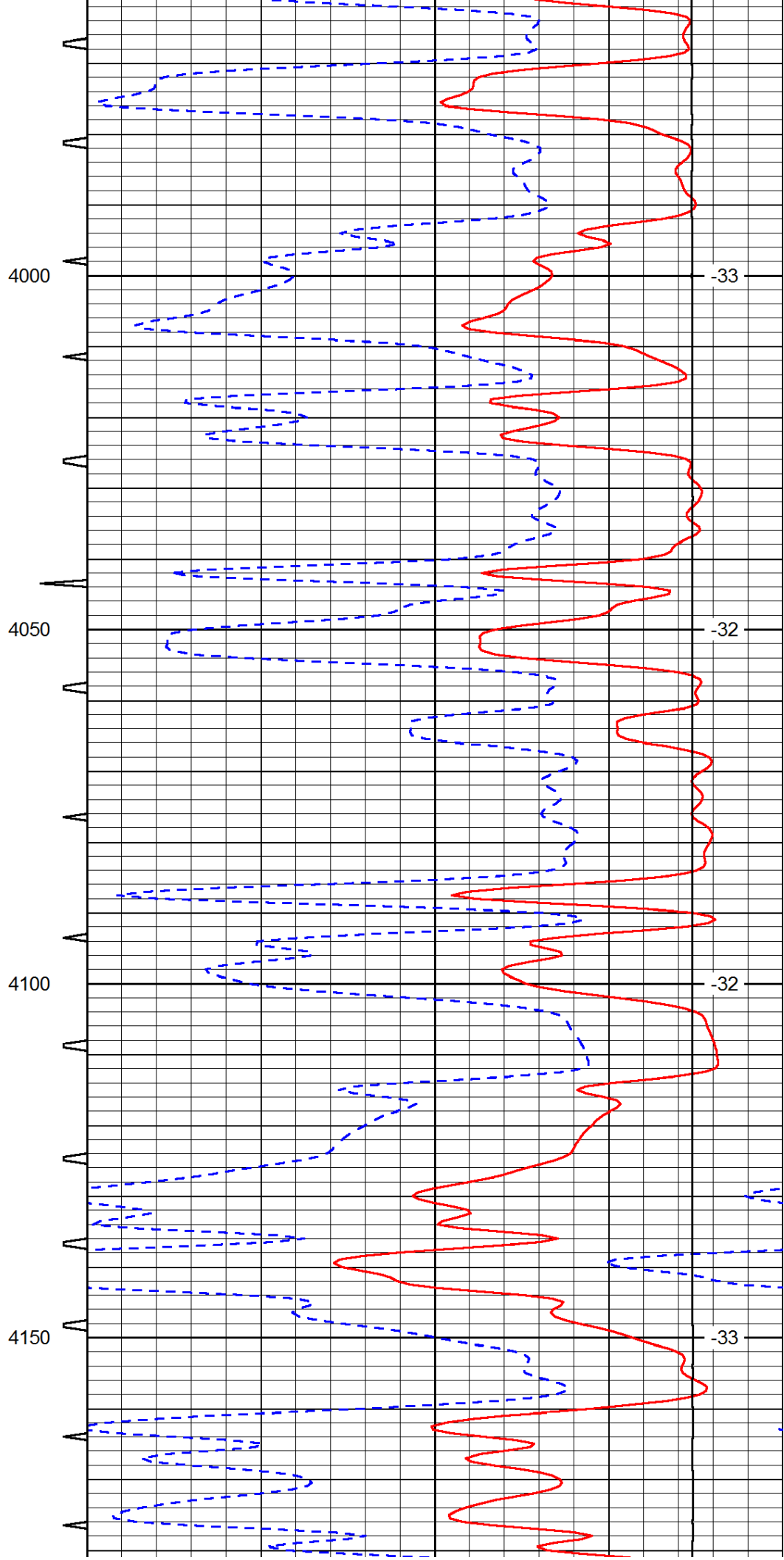
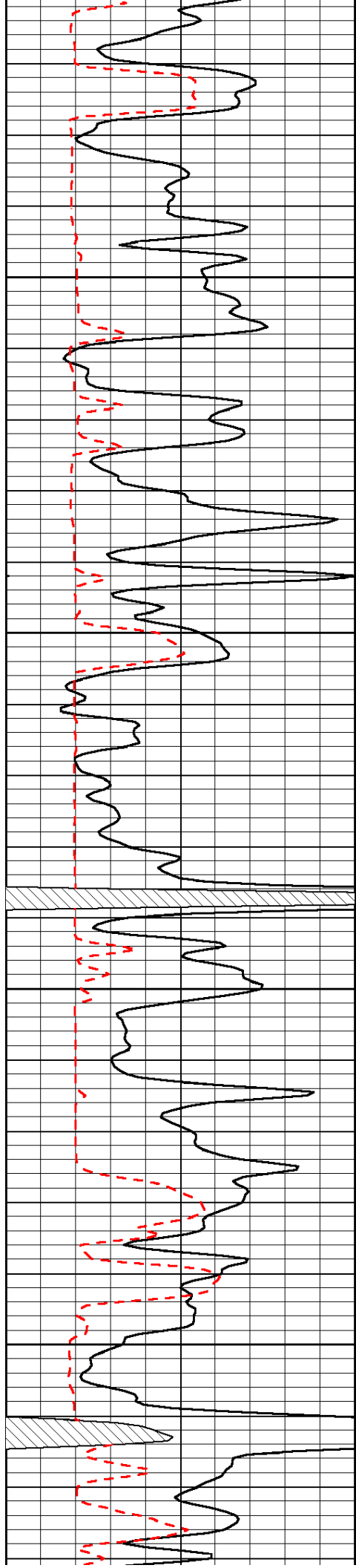


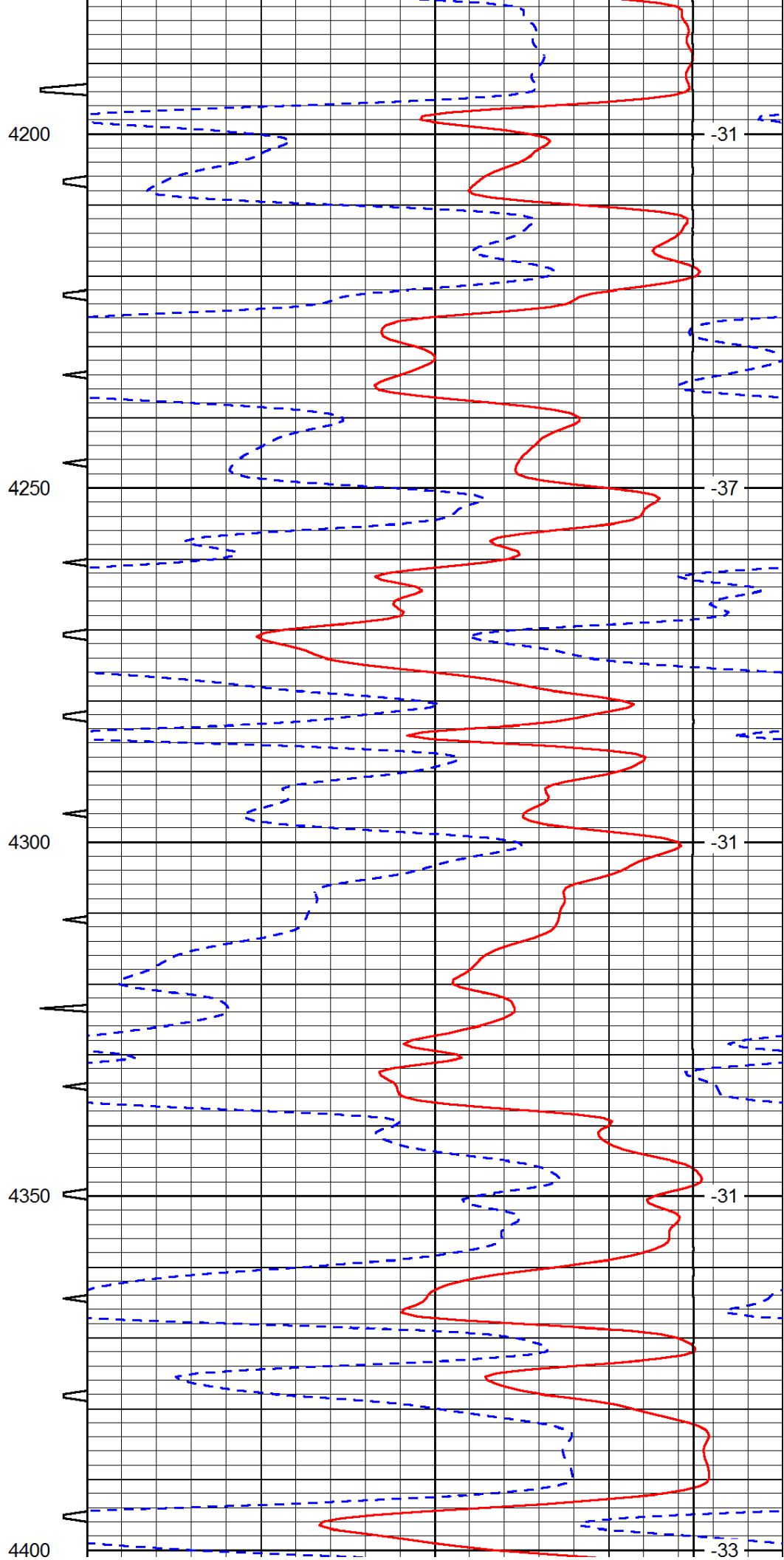
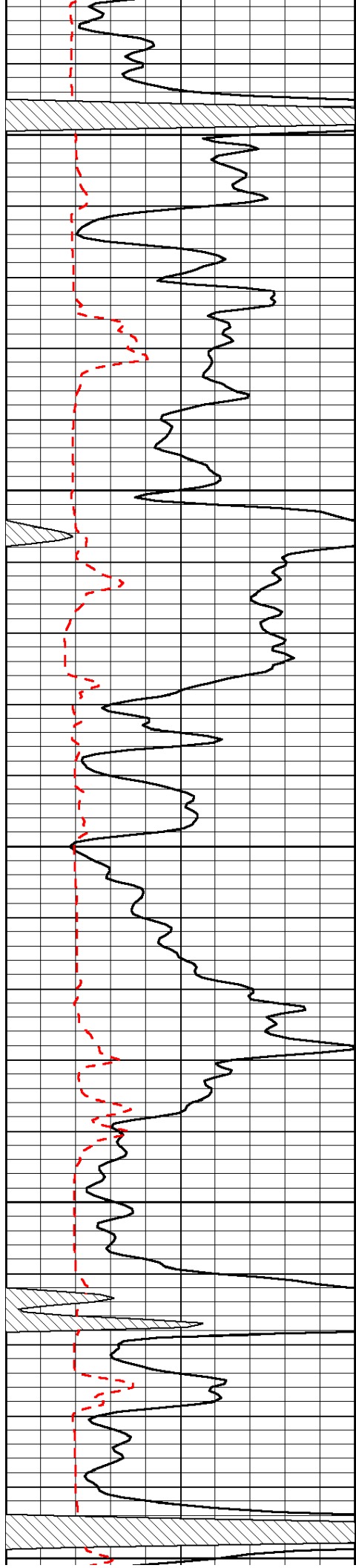


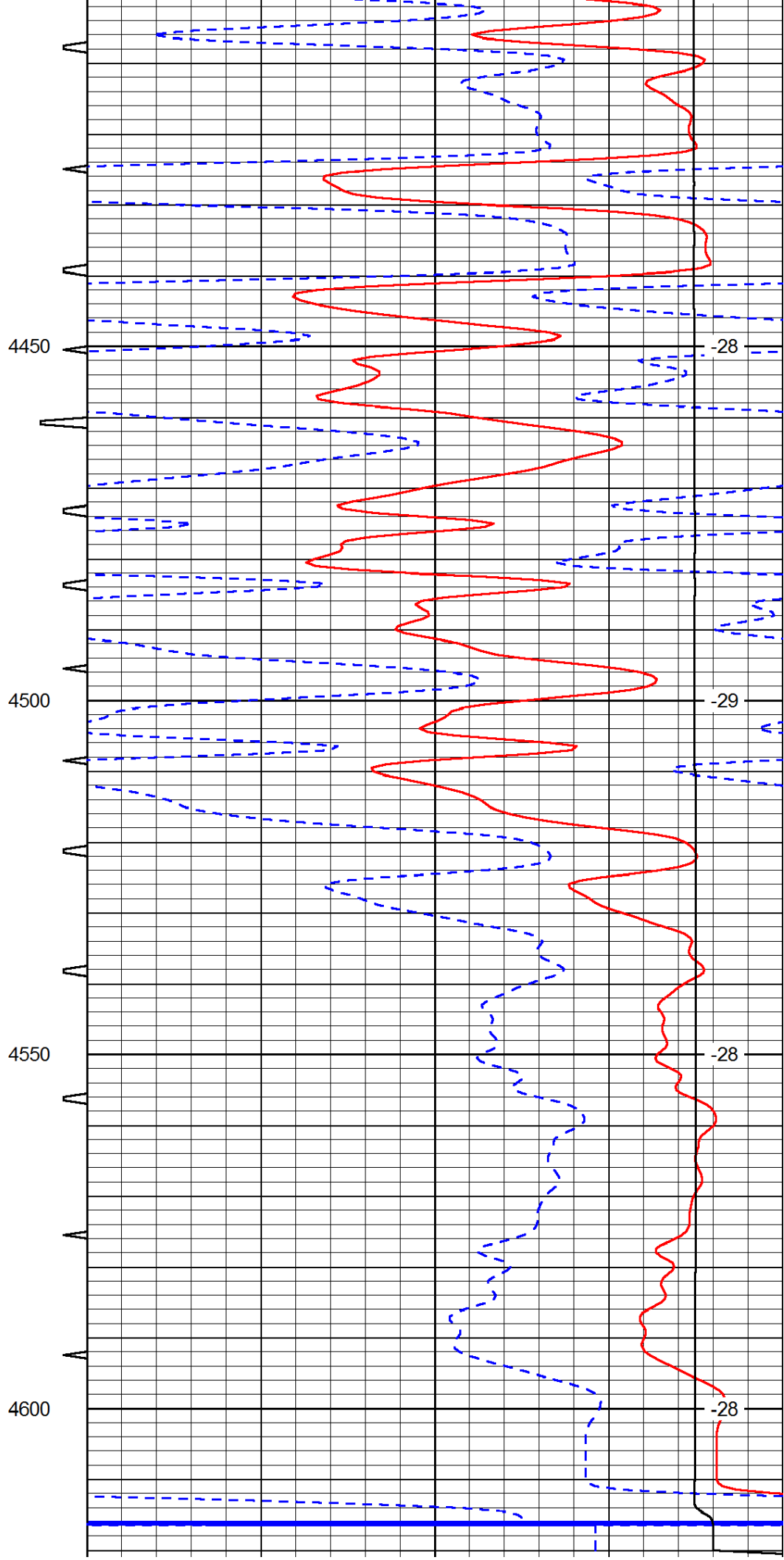
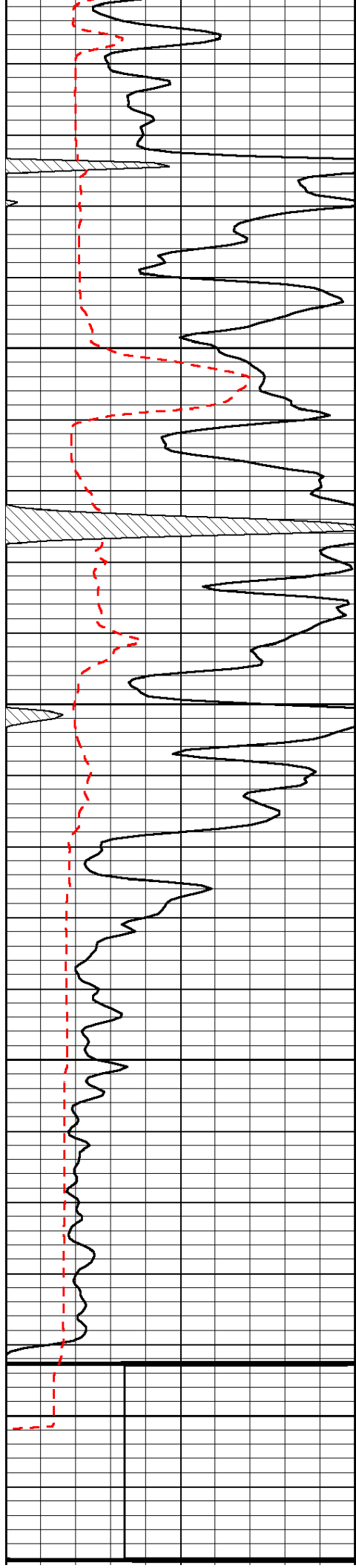












0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40	
150	Gamma Ray	300	5	0	30	SPOR	-10
6	Caliper (GAPI)	16			15000	LTEN (lb)	0
							LSPD



Pioneer Energy Services

Fracfinder

15-193-20,930-00-00

API No.

Company Carmen Schmitt, Inc.

Well Depe #1-12

Field Wildcat

County Thomas

State Kansas

Location

SE SW NE NW
1212' FNL & 1663' FWL

Other Services
MEL/DIL
CNL/CDL

Sec: 12 Twp: 7S Rge: 32W

Permanent Datum Ground Level Elevation 2991

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Elevation
K.B. 2996
D.F.
G.L. 2991

Date 8/22/2014

Run Number Two

Type Log BHC Sonic

Depth Driller 4610

Depth Logger 4614

Bottom Logged Interval 4601

Top Logged Interval 3600

Type Fluid In Hole Chemical

Salinity, PPM CL 3000

Density 9.2

Level Full

Max. Rec. Temp. F 122

Operating Rig Time 5 Hours

Equipment -- Location 15 Hays

Recorded By D.Kerr

Witnessed By Larry Nicholson

Borehole Record

Casing Record

Run No	Bit	From	To	Size	Wgt. #	From	To
One	12.25	0	260	8.625	23#	0	260
Two	7.875	260	TD				

<<< 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

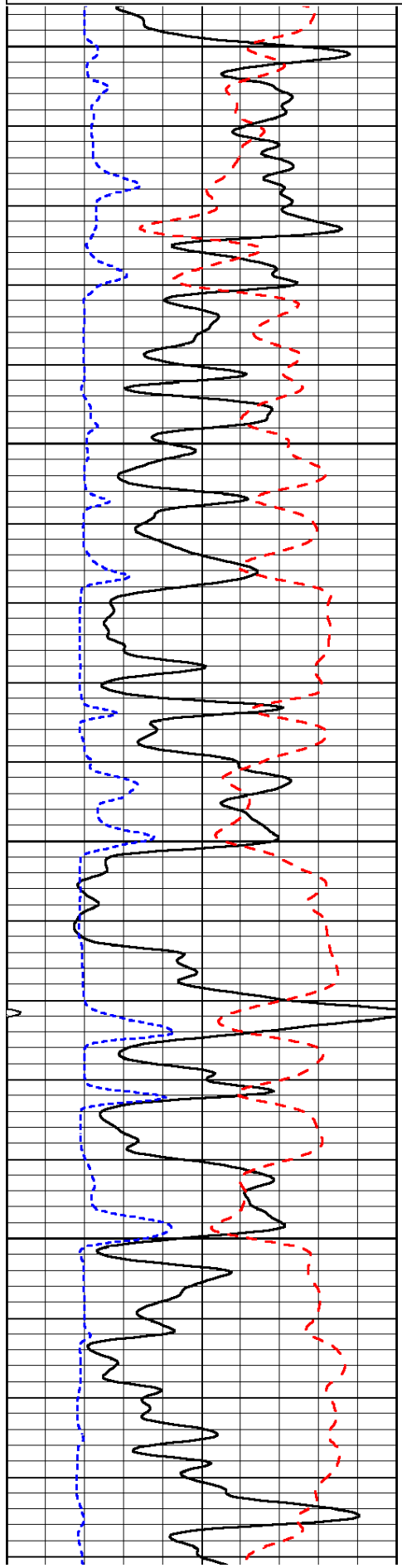
Thank you for using Pioneer Energy Services
785.625.3858

Oakley KS North on HWY 83 to HWY 24,
4 NorthEast to 30 RD, 1 North, East and North Into

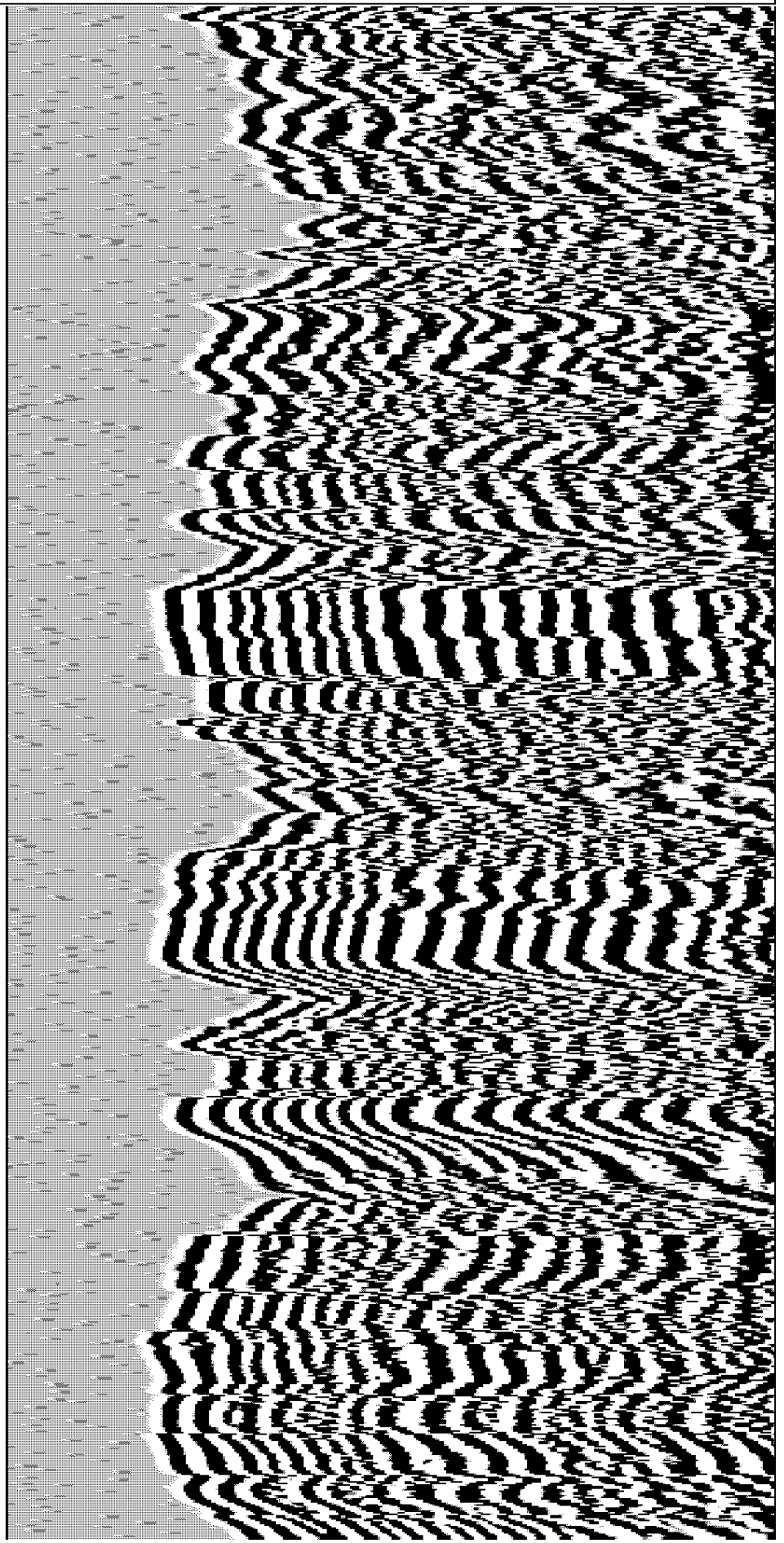
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 Presentation Format: fracfind
 Dataset Creation: Sat Aug 23 00:53:30 2014 by Calc 0
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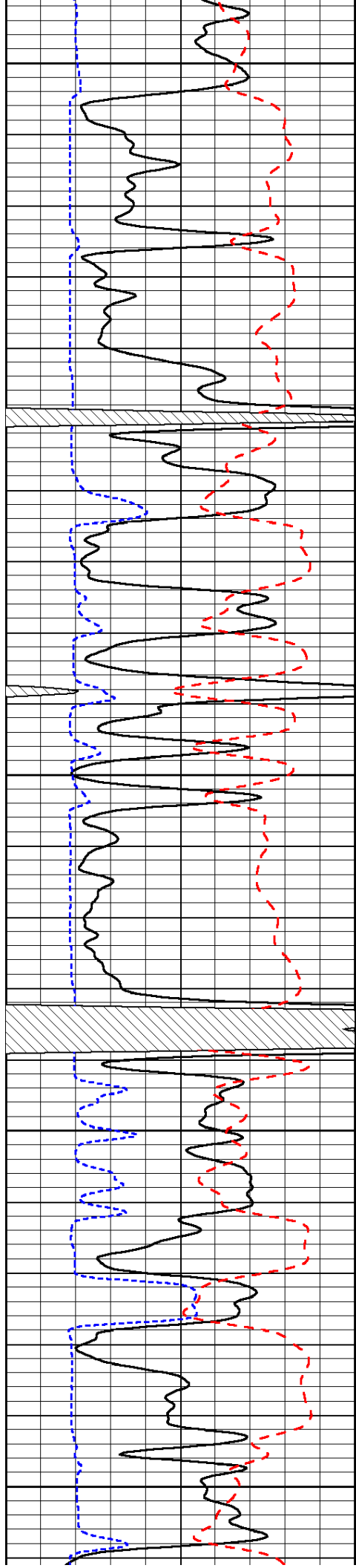
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
140	Delta Time (usec/ft)	40

200 WWF3 1200



3600
3650
3700
3750





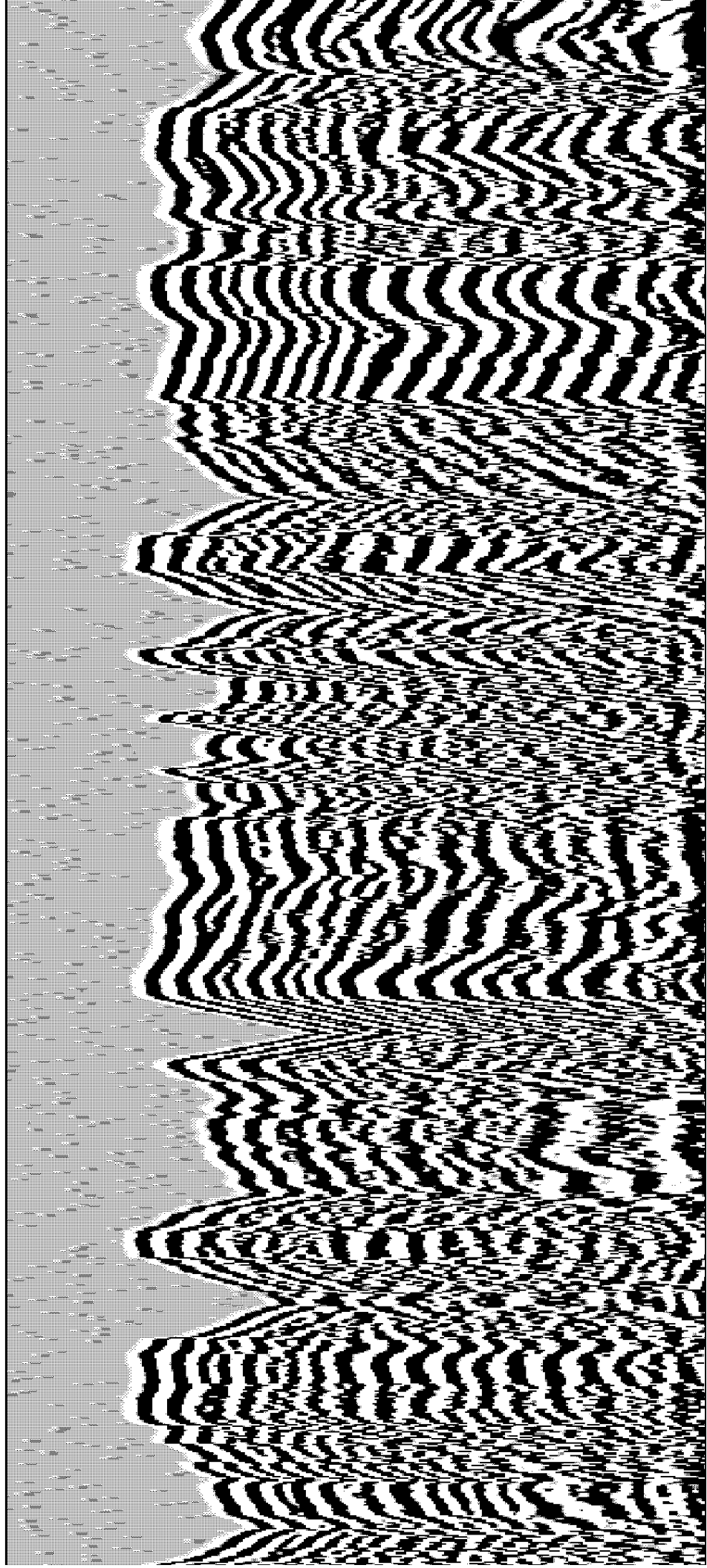
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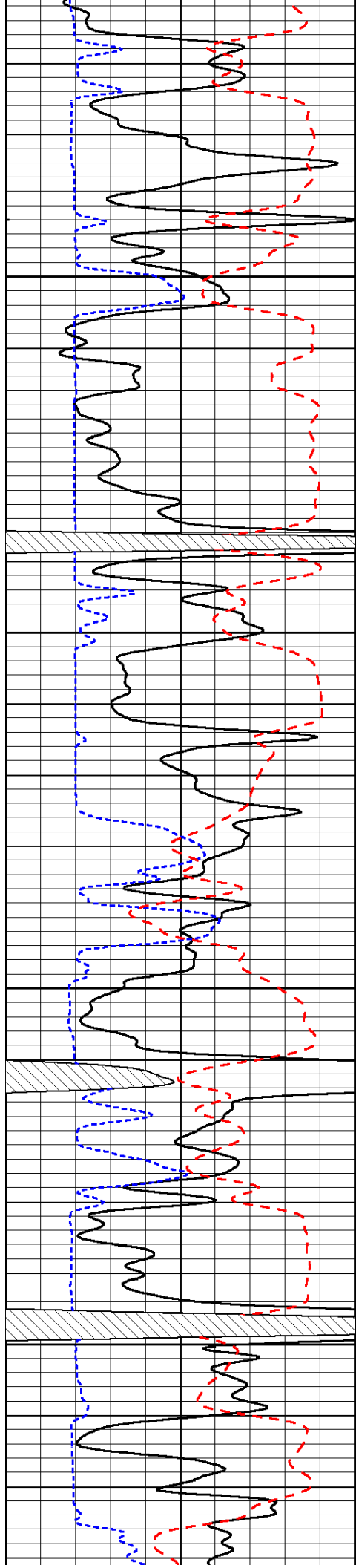
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3900

3950

4000



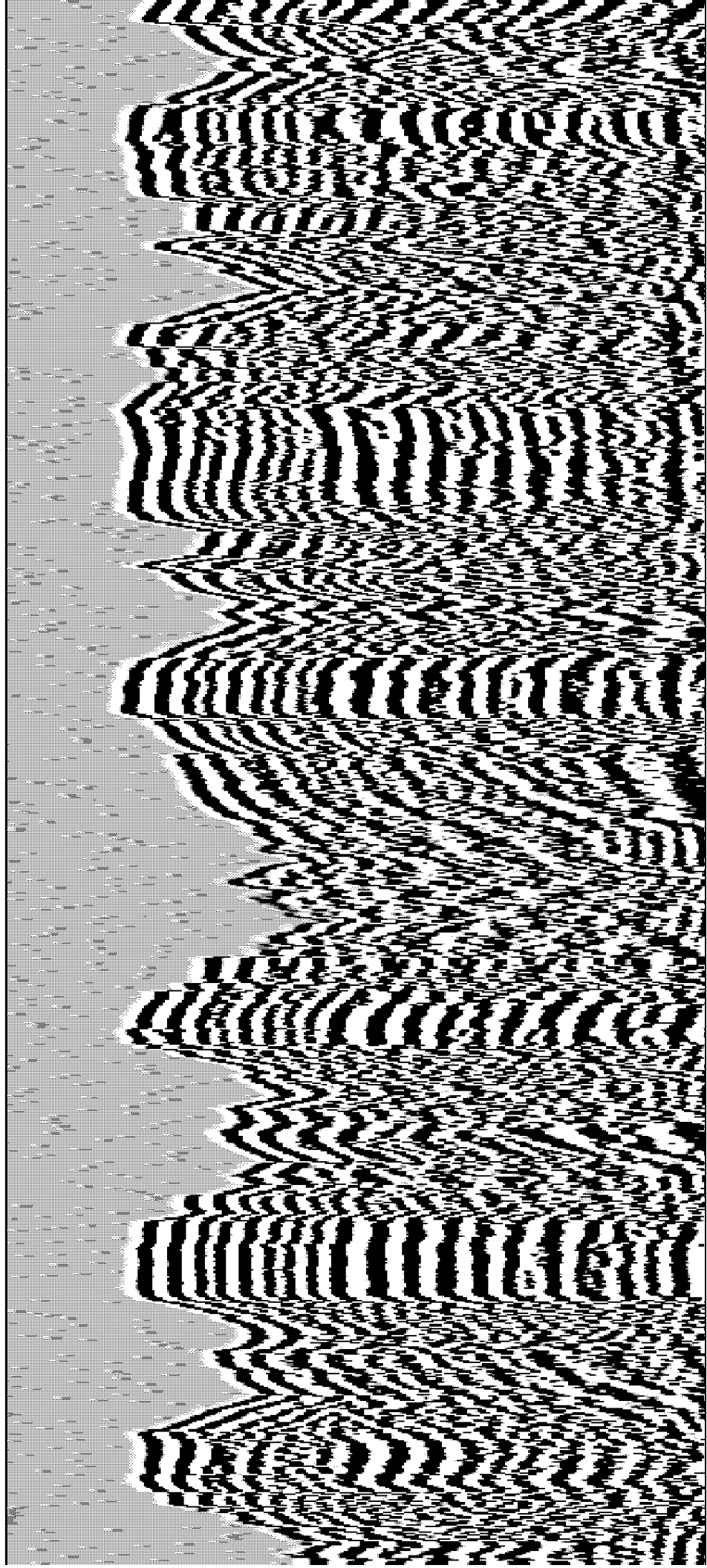


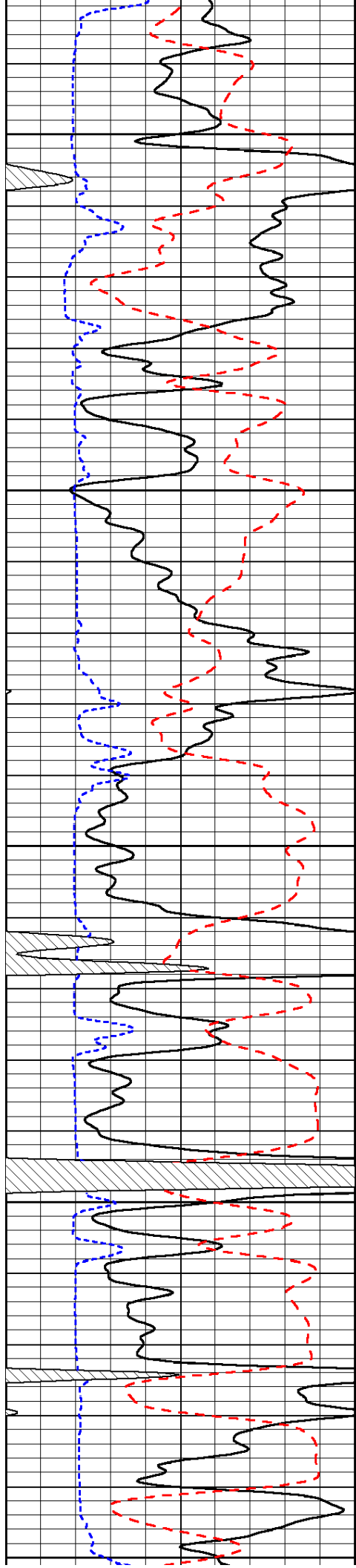
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4100

4150

4200





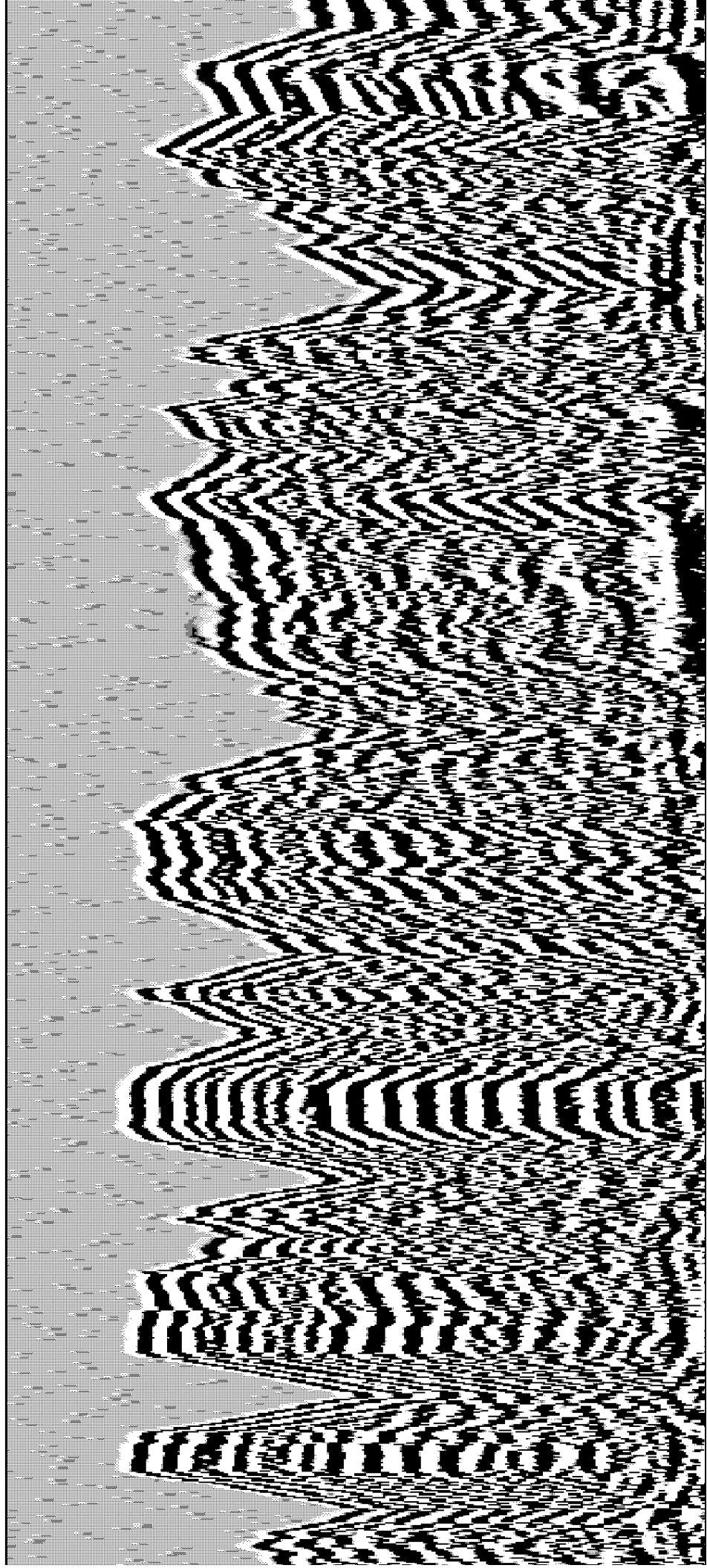
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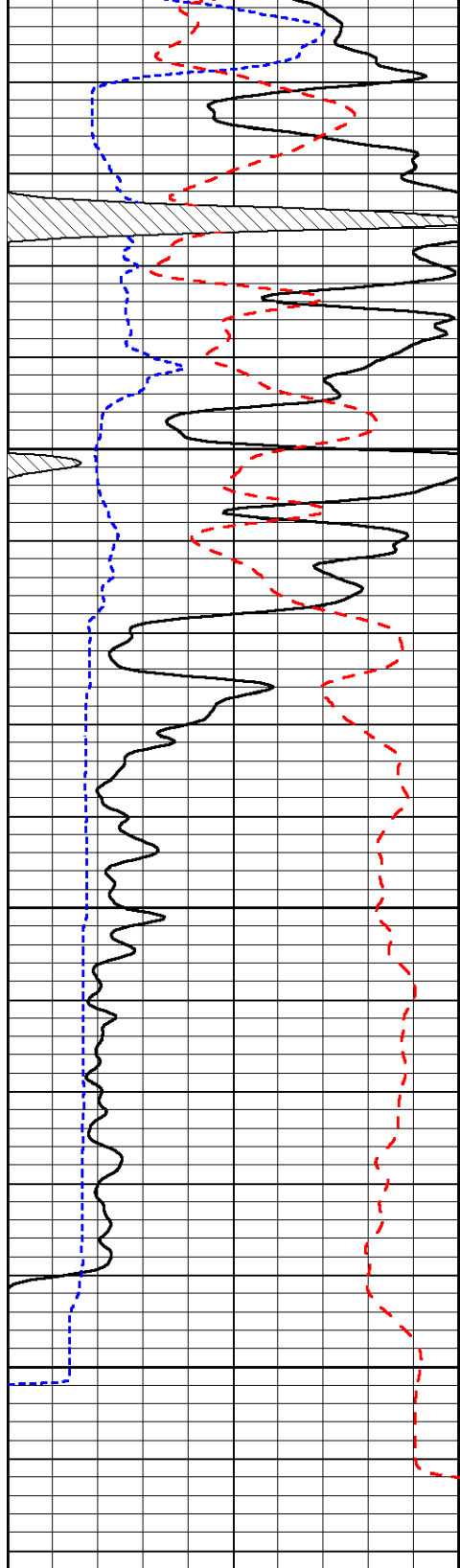
4300

4350

4400

4450

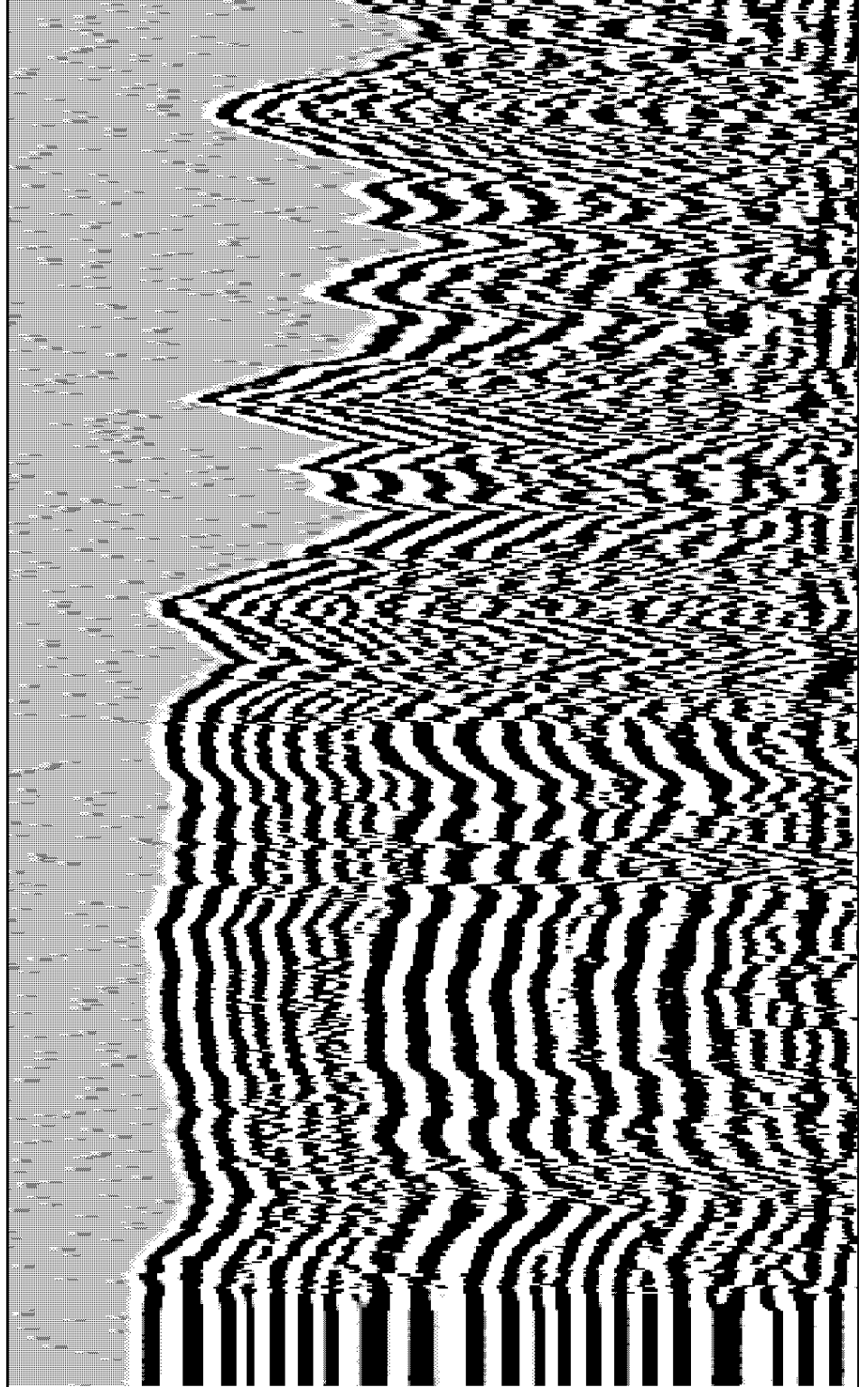




4500

4550

4600



200

WWF3

1200

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
140	Delta Time (usec/ft)	40

CEMENT BOND LOG

Company **CARMEN SCHMITT, INC.**
 Well **DEPE # 1-12**
 Field **WILDCAT**
 County **THOMAS** State **KANSAS**

Company **CARMEN SCHMITT, INC.**
 Well **DEPE # 1-12**
 Field **WILDCAT**
 County **THOMAS**
 State **KANSAS**

Location **1212' FNL & 1663' FWL**
 SEC. **12** TWP. **7S** RGE. **32W**
 Permanent Datum **GROUND LEVEL Elevation 2991**
 Log Measured From **KELLY BUSHING 5' AGL**
 Drilling Measured From **KELLY BUSHING**
 Other Services **PERFS**
 Elevation **K.B. 2996**
D.F. G.L. 2991

Date	9-2-2014
Run Number	ONE
Depth Driller	4610
Depth Logger	4580
Bottom Logged Interval	4579
Top Log Interval	30
Open Hole Size	
Type Fluid	WATER
Density / Viscosity	
Max. Recorded Temp.	
Estimated Cement Top	450
Time Well Ready	
Time Logger on Bottom	
Equipment Number	#53
Location	GREAT BEND
Recorded By	LANCE GREGG
Witnessed By	MR. HITSCHMANN

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record							
Surface String		Size 8.625		Wgt/Ft #23		Top 0	Bottom 260
Prot. String							
Production String		5.5		#15.5		0	4590
Liner							

<<< 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.

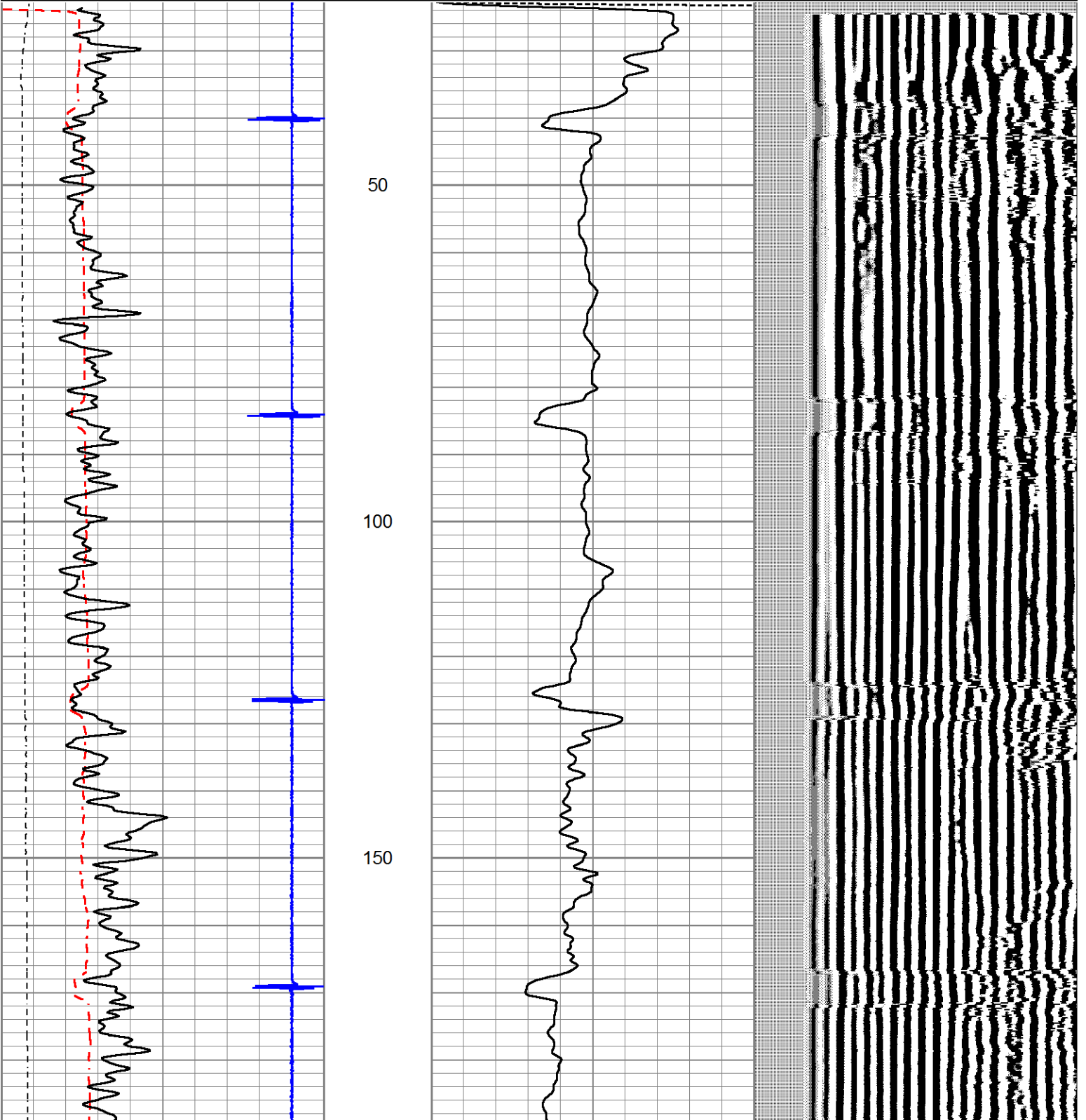
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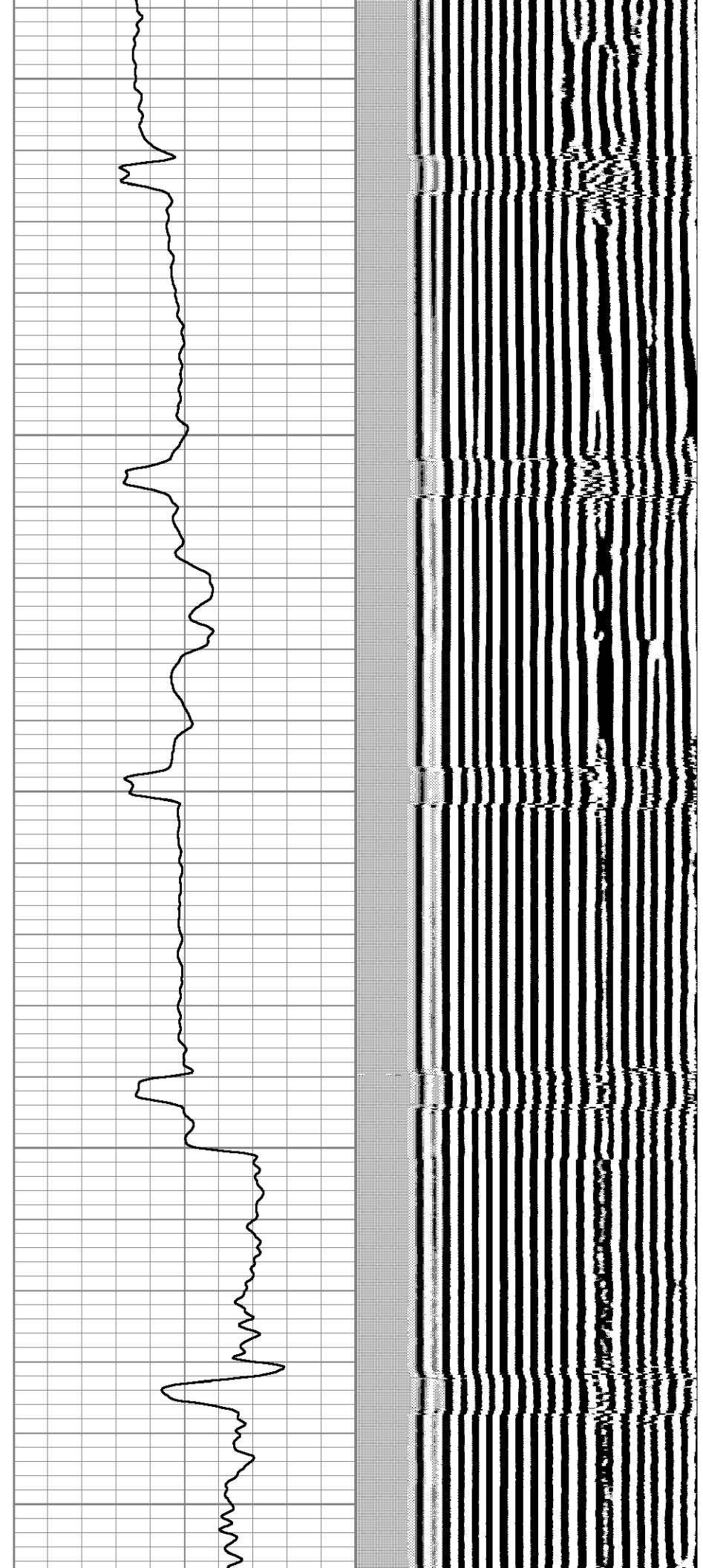
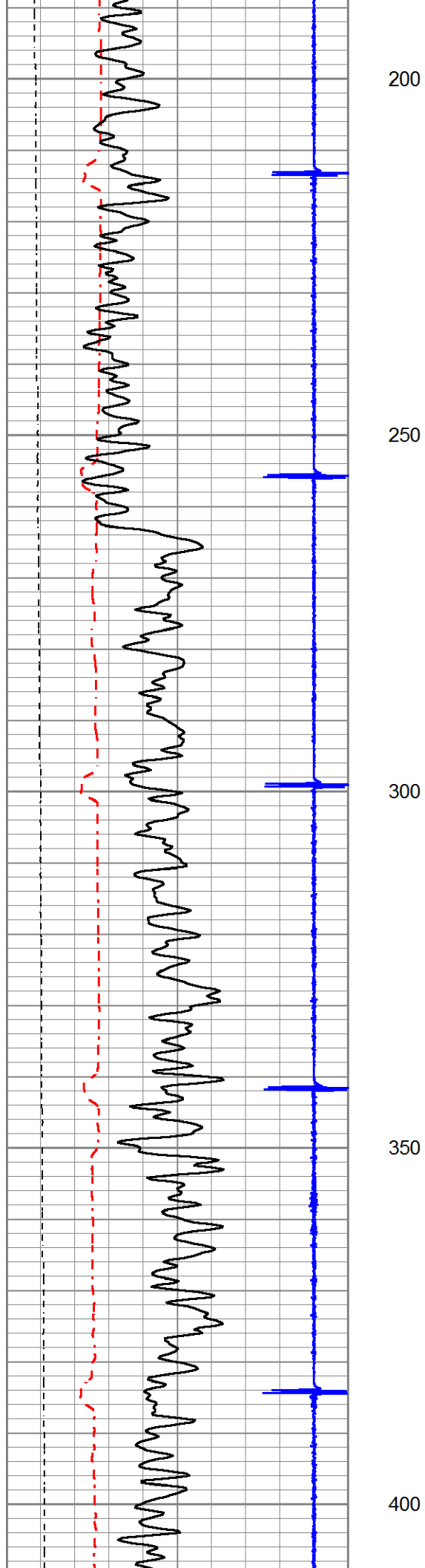
THANK YOU FOR USING LOG TECH OF KANSAS

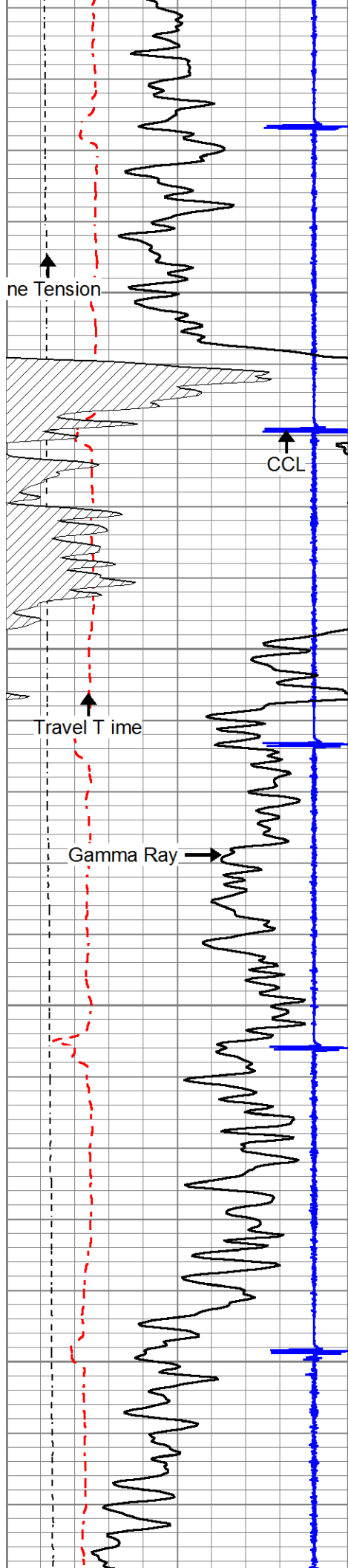
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 Dataset Pathname pass2
 Presentation Format scbl_dr
 Dataset Creation Tue Sep 02 11:24:08 2014
 Charted by Depth in Feet scaled 1:240

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-9	Collar Locator	1
0	LTEN (lb)	1500
0	Gamma Ray (GAPI)	150
150	Gamma Ray (GAPI)	300
300	Gamma Ray (GAPI)	450

0 Amplitude (mV) 100 200 VDL 1200







450

Top of Cement

CCL

X5 Amplified Amplitude

500

VDL

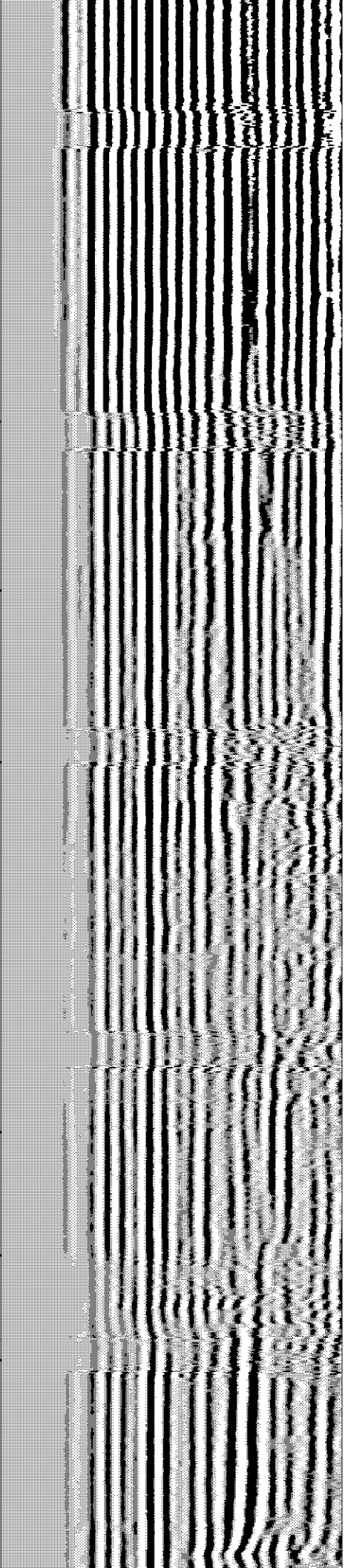
Travel Time

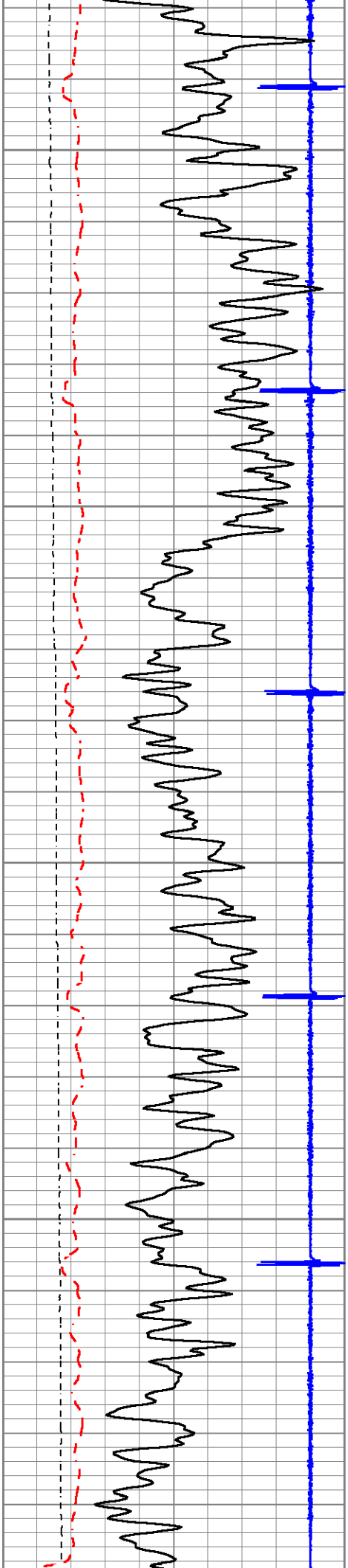
Amplitude

Gamma Ray

550

600



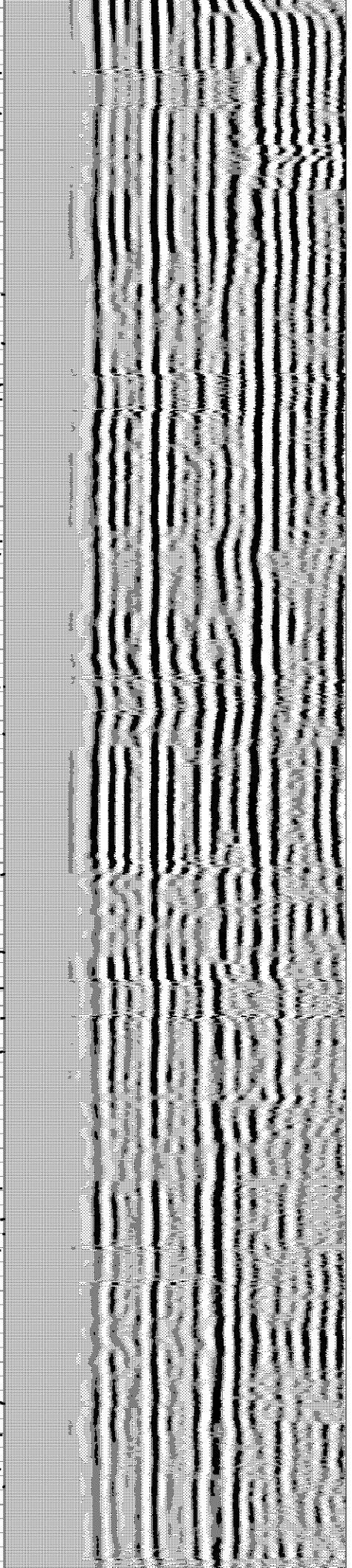
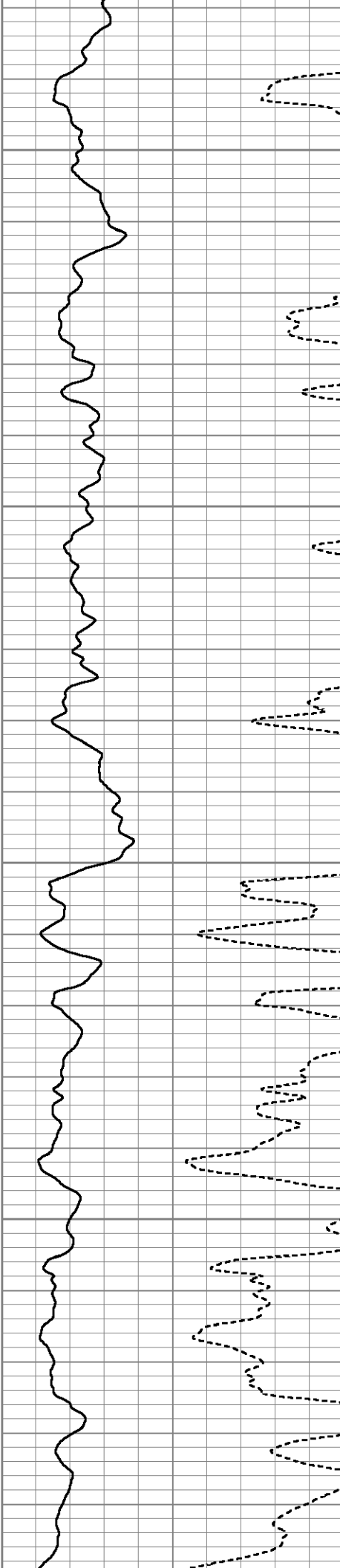


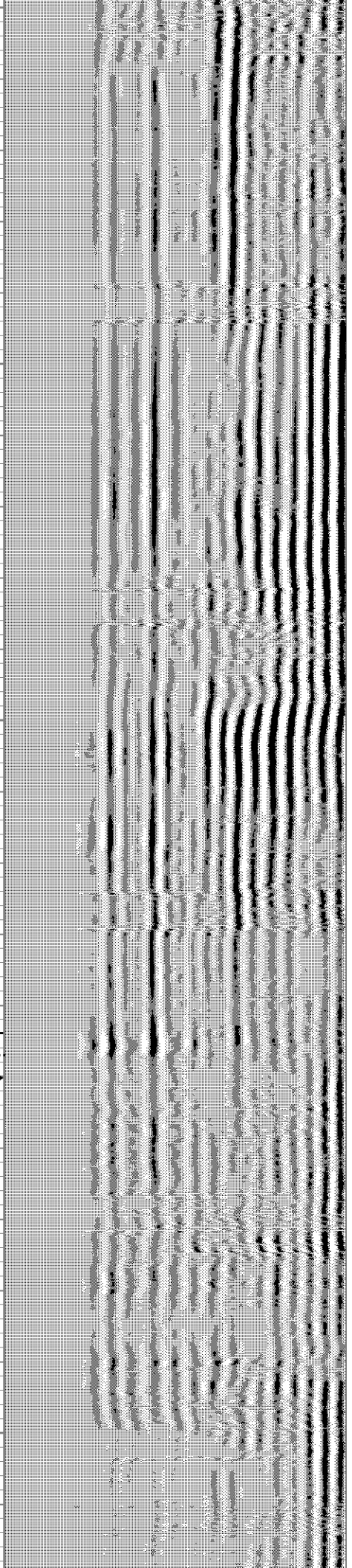
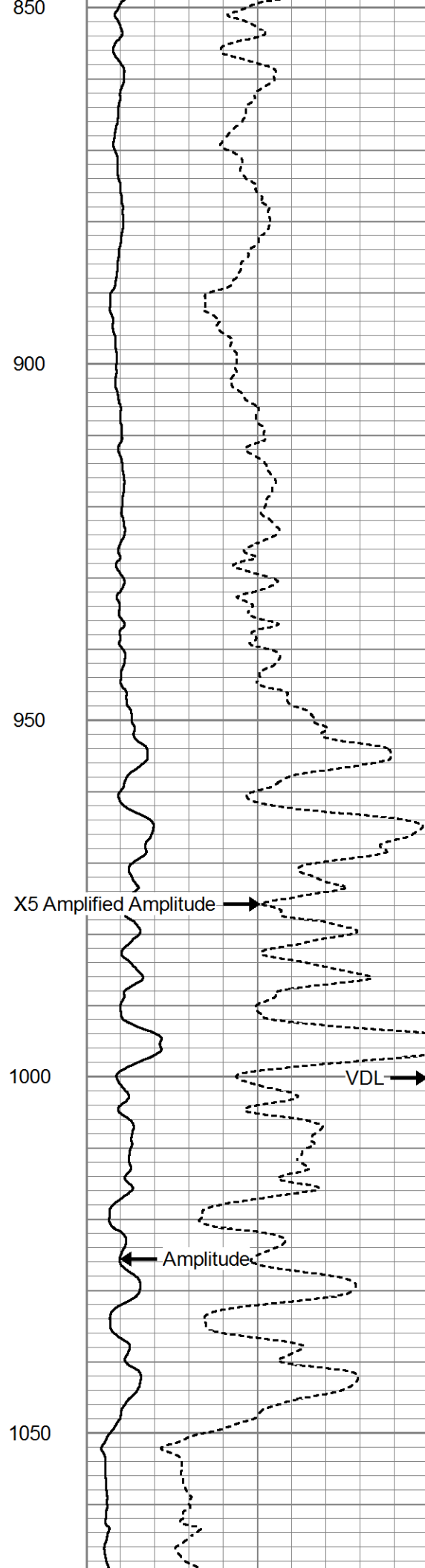
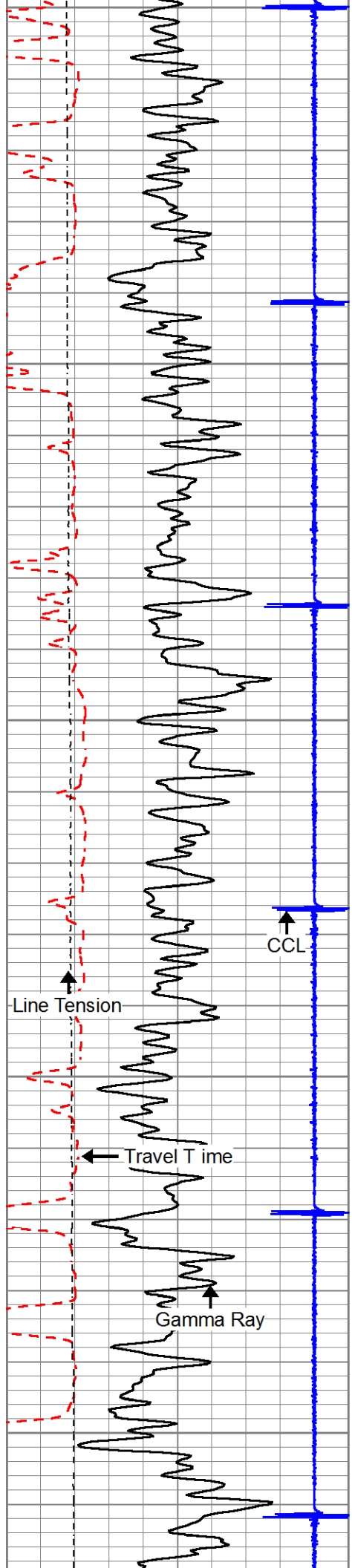
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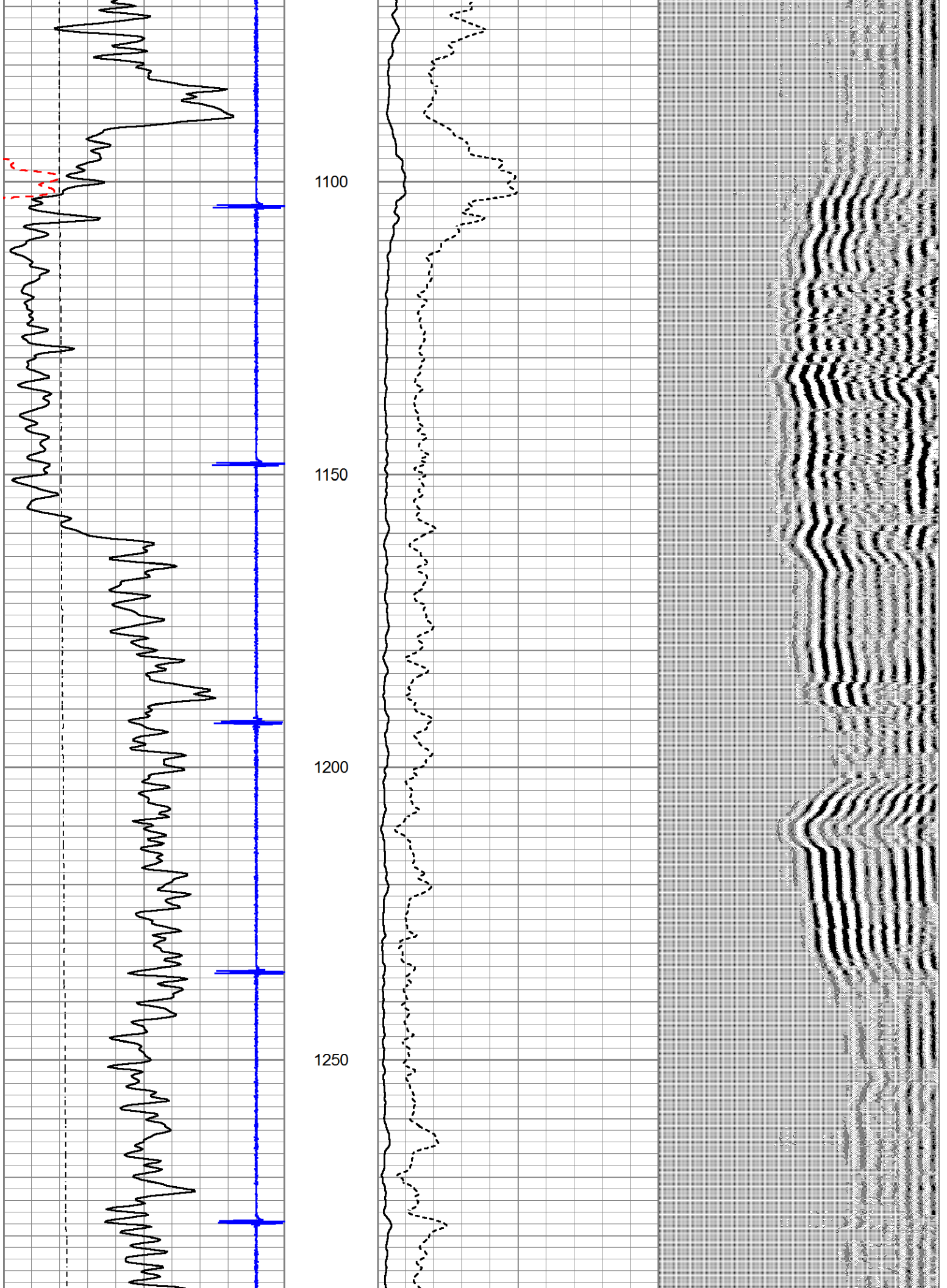
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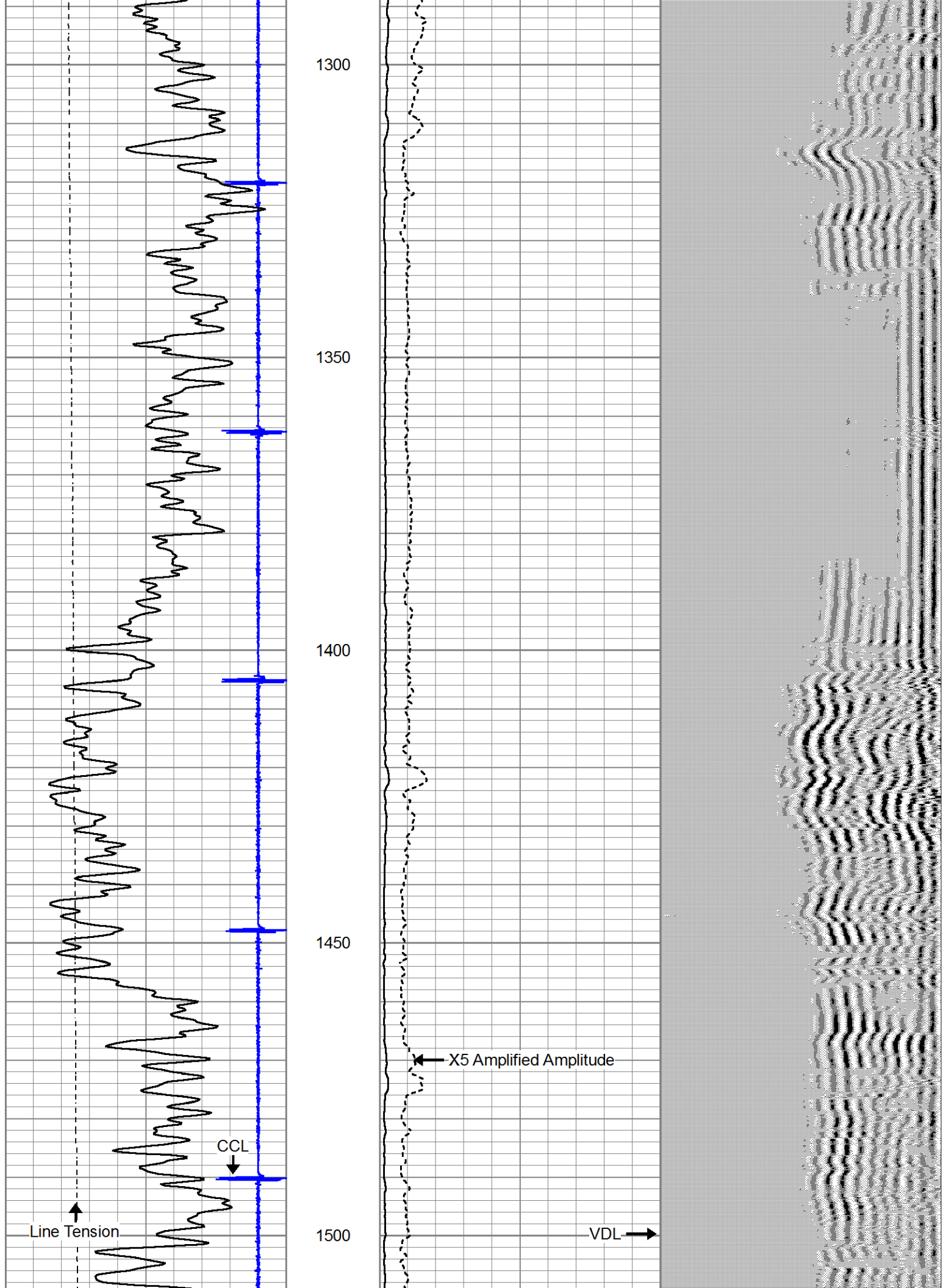
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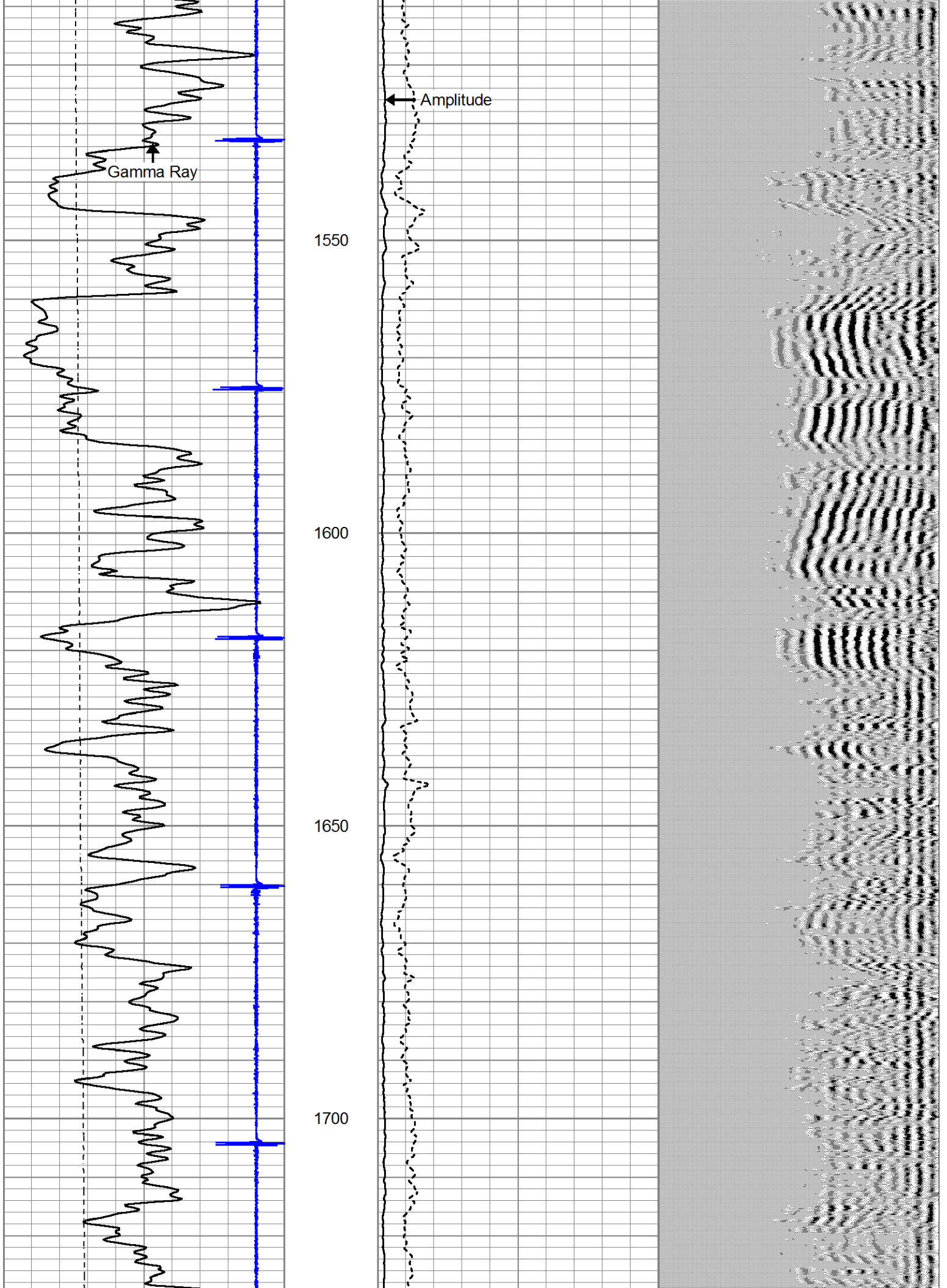
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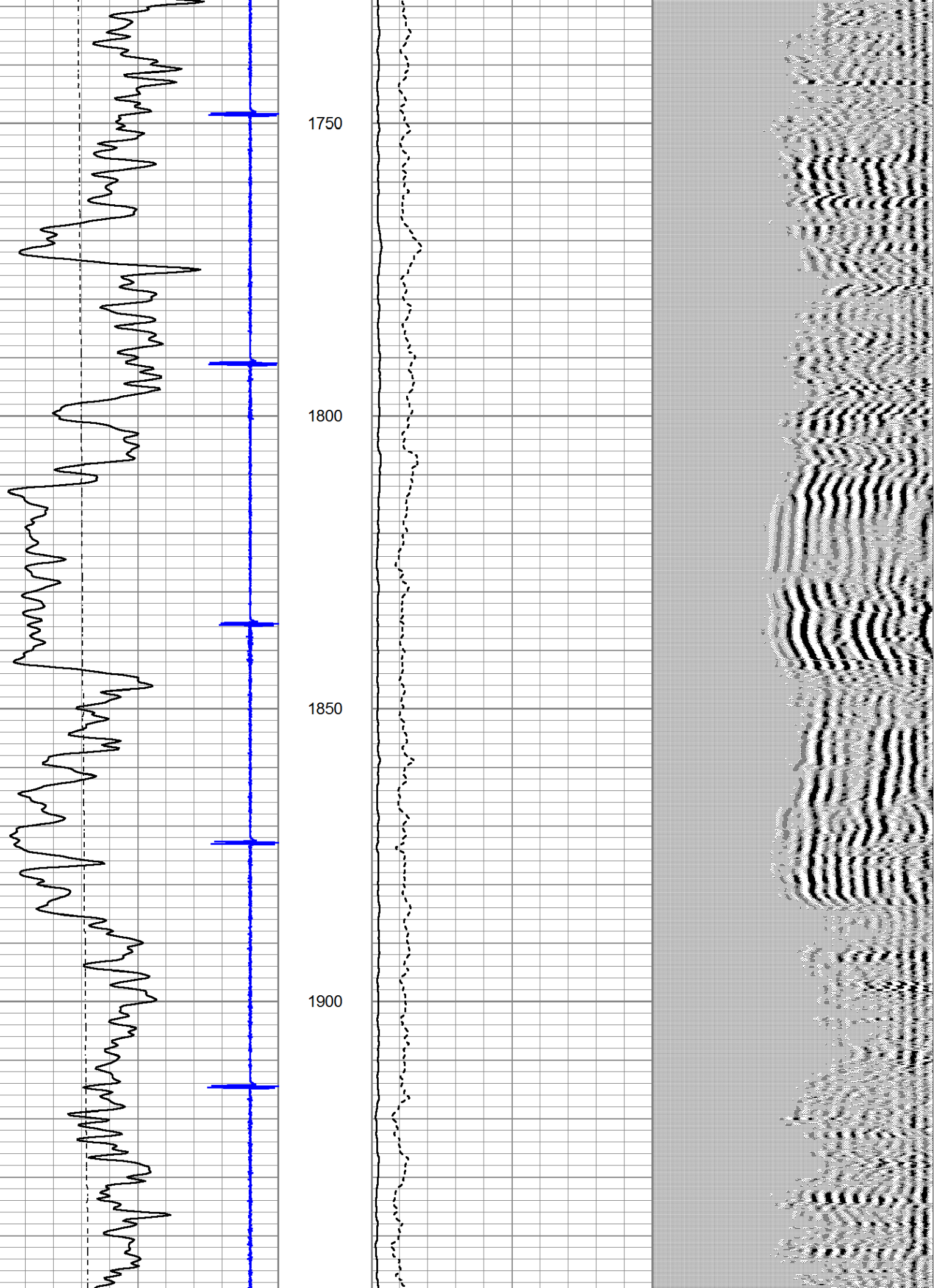


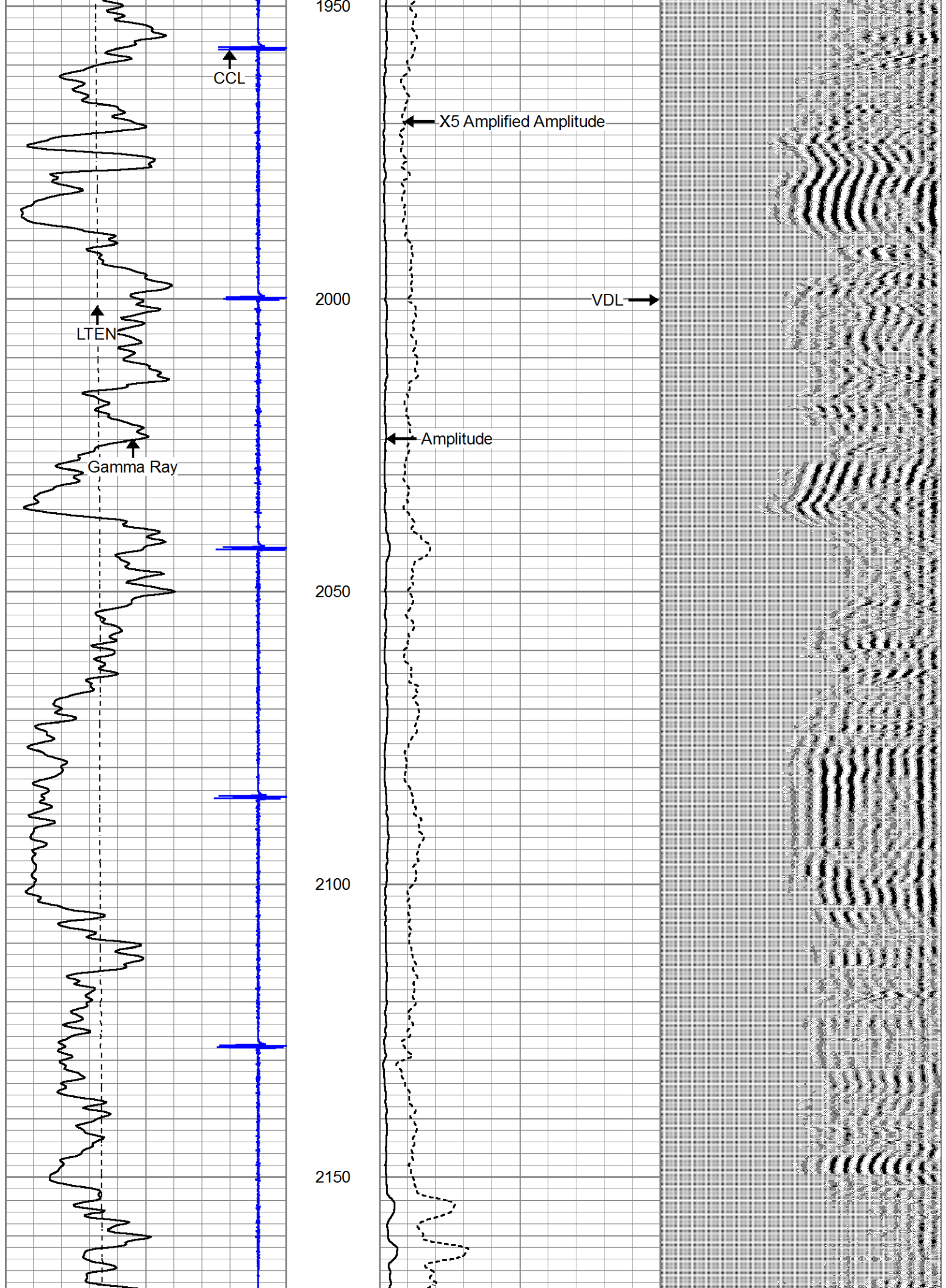


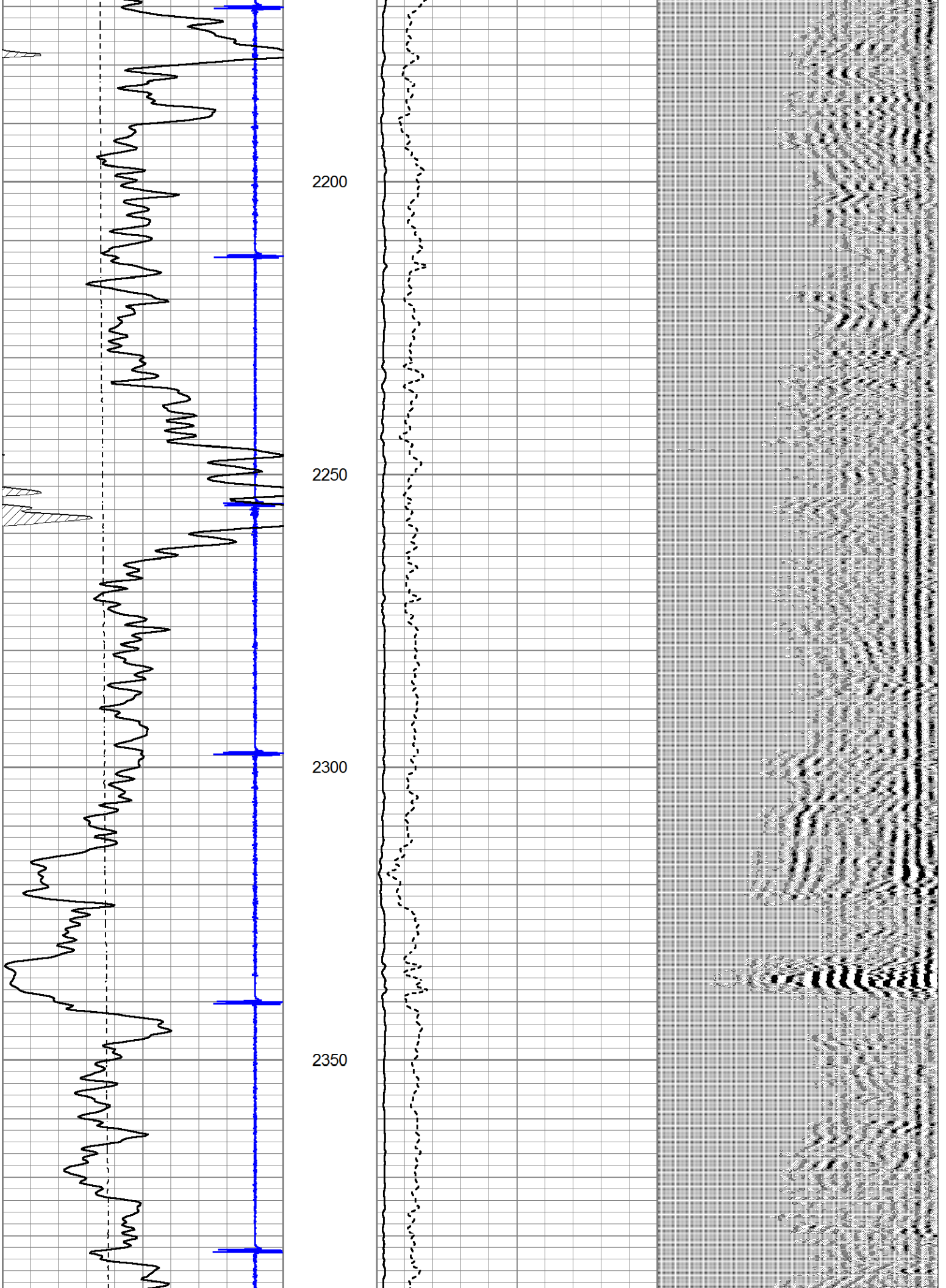


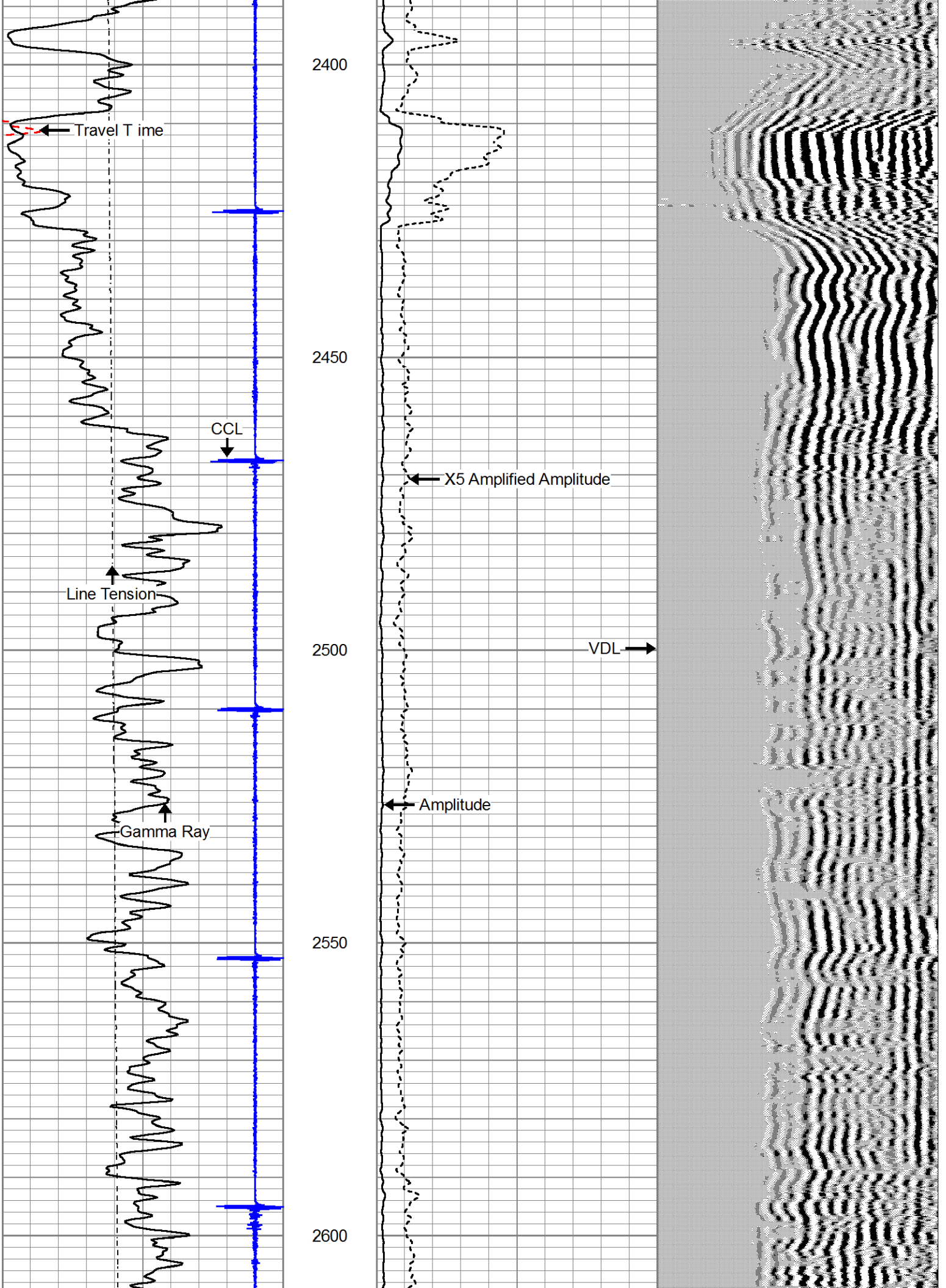


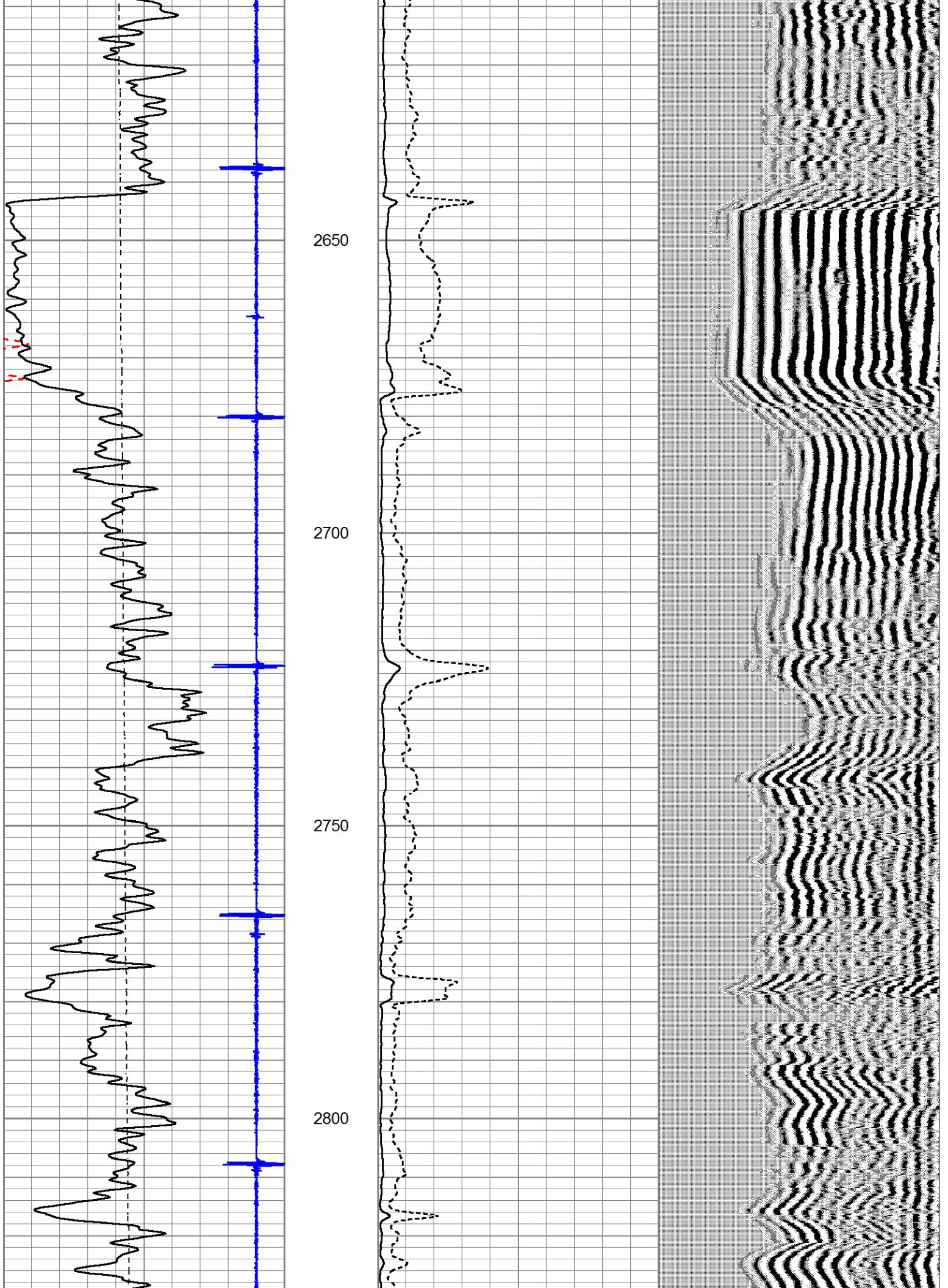


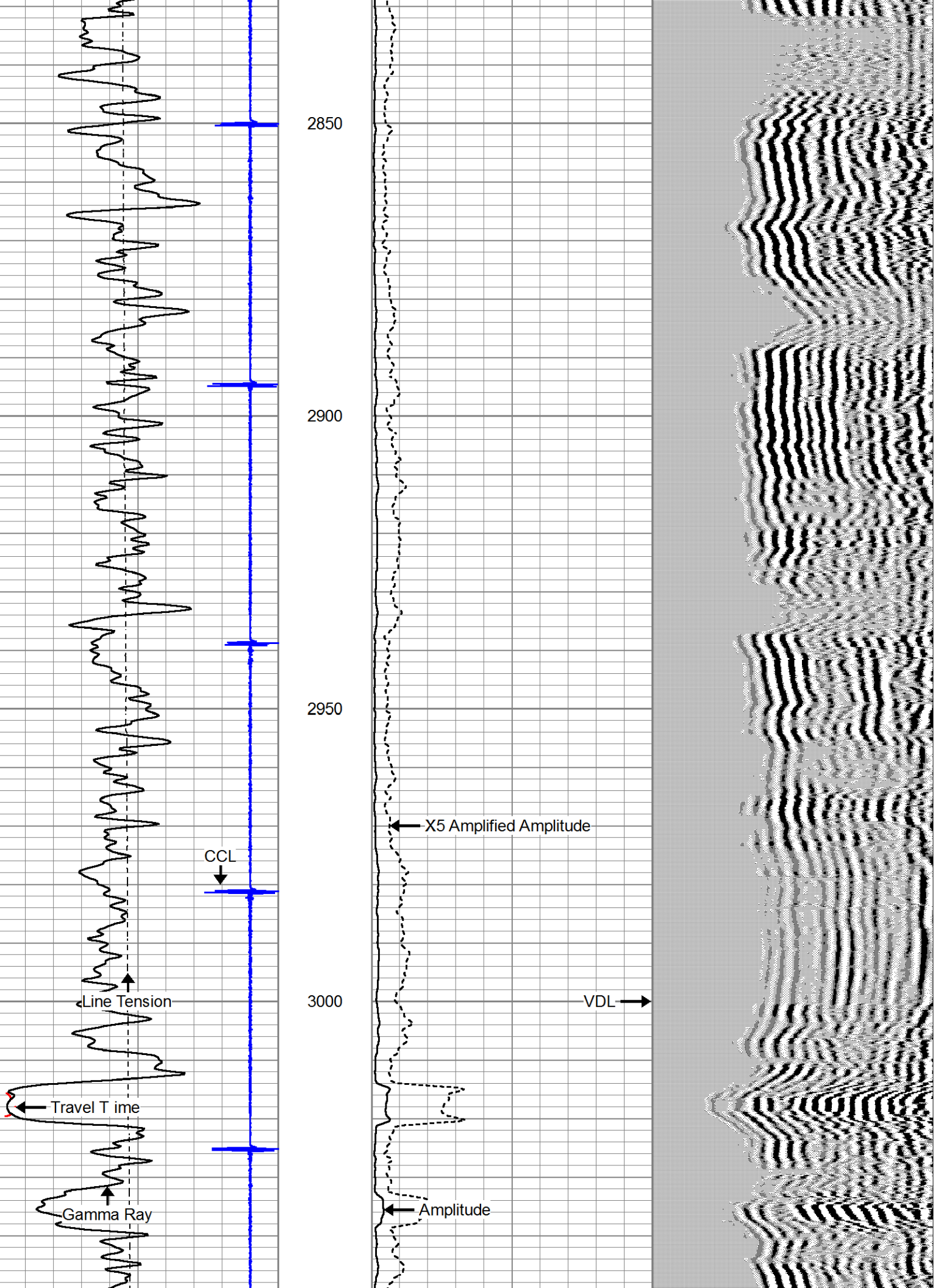


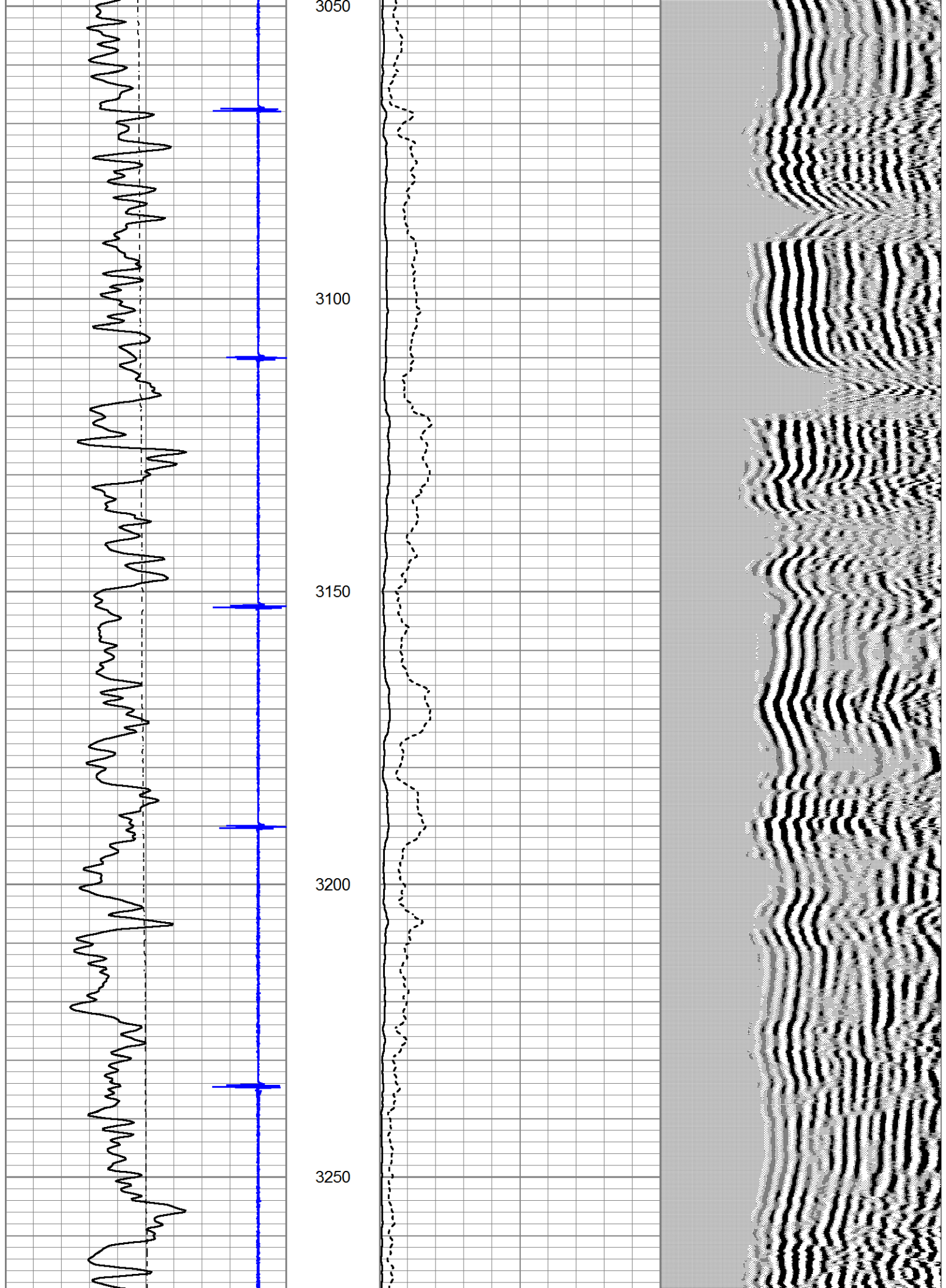


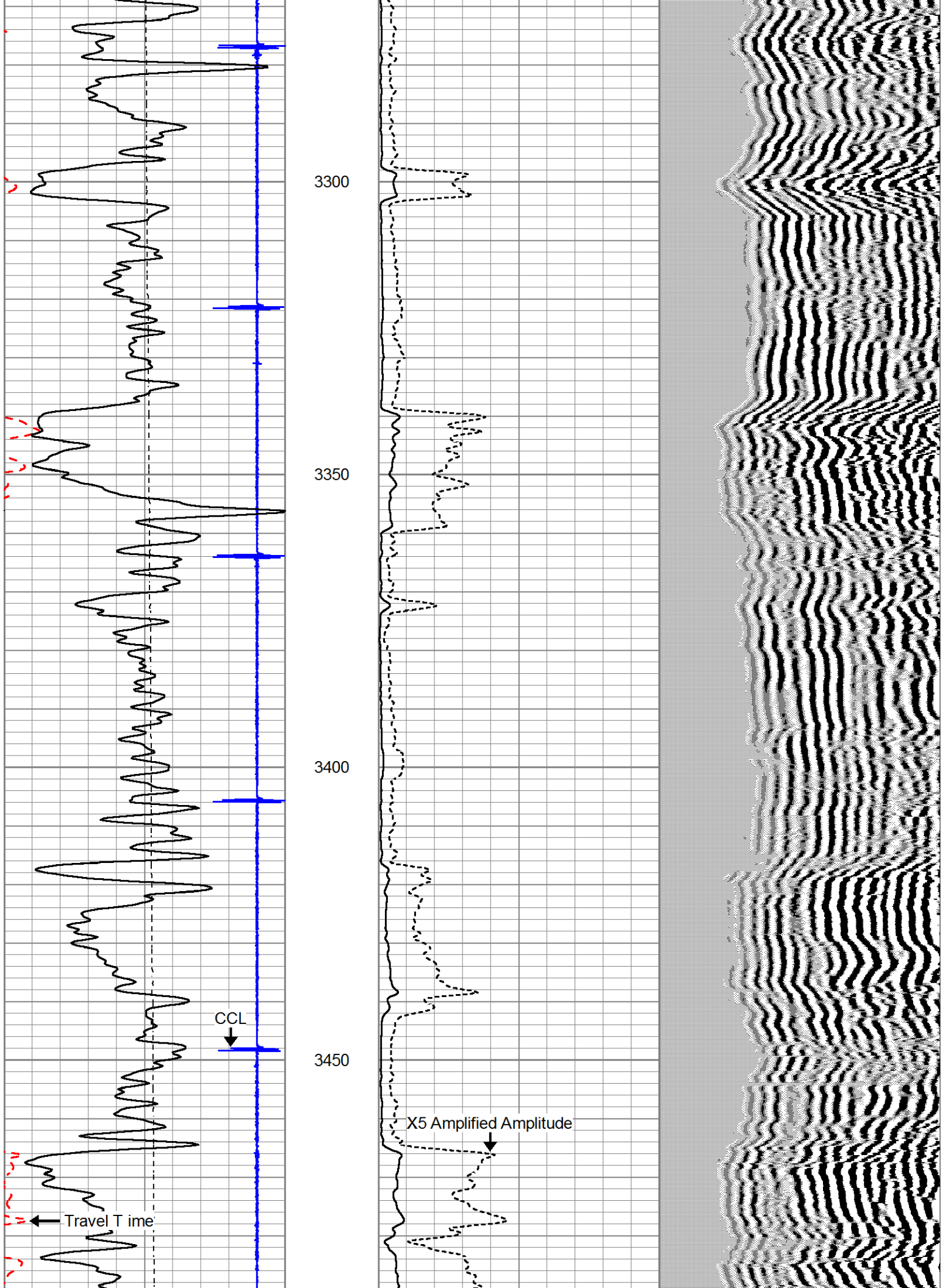


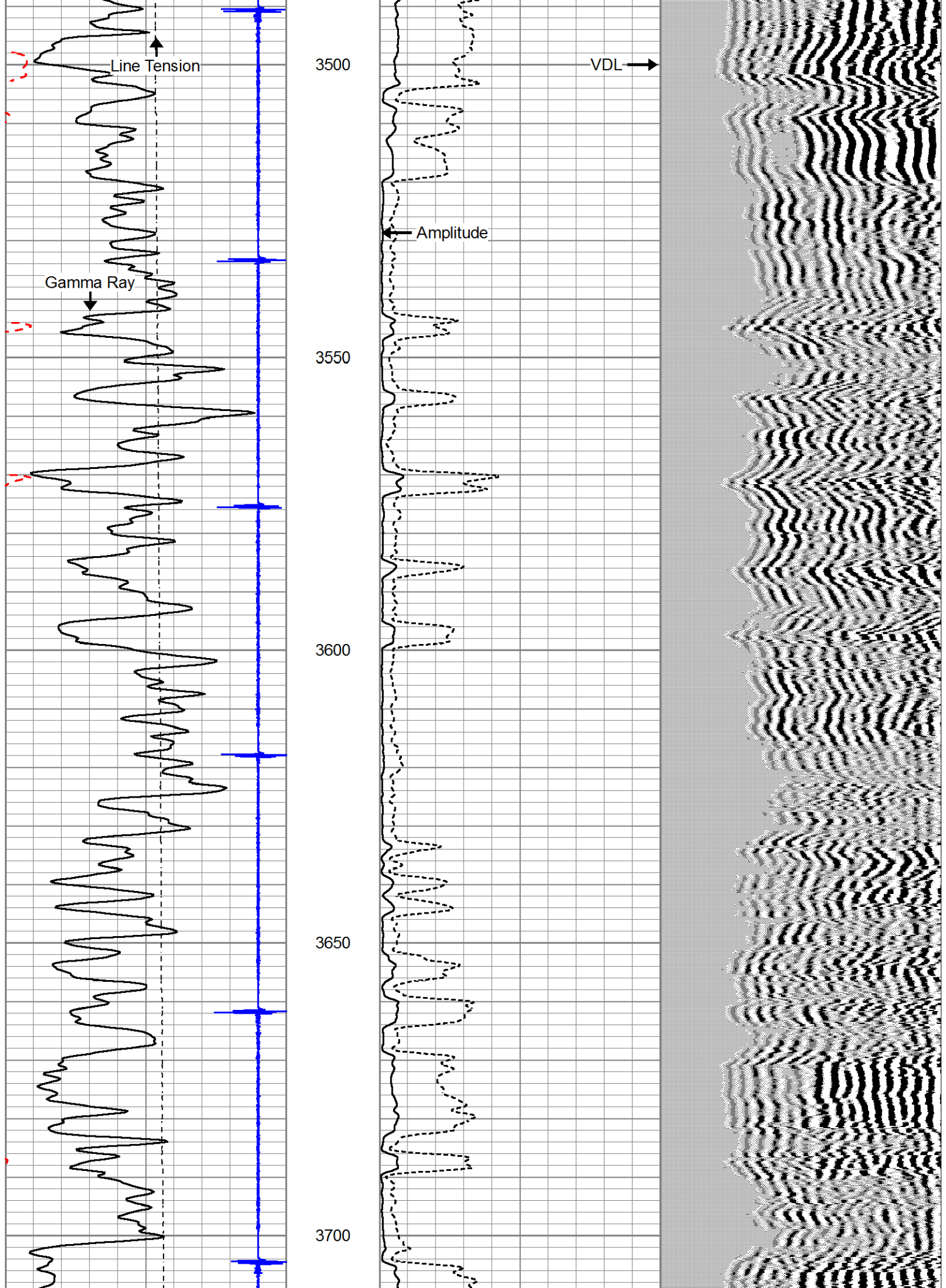


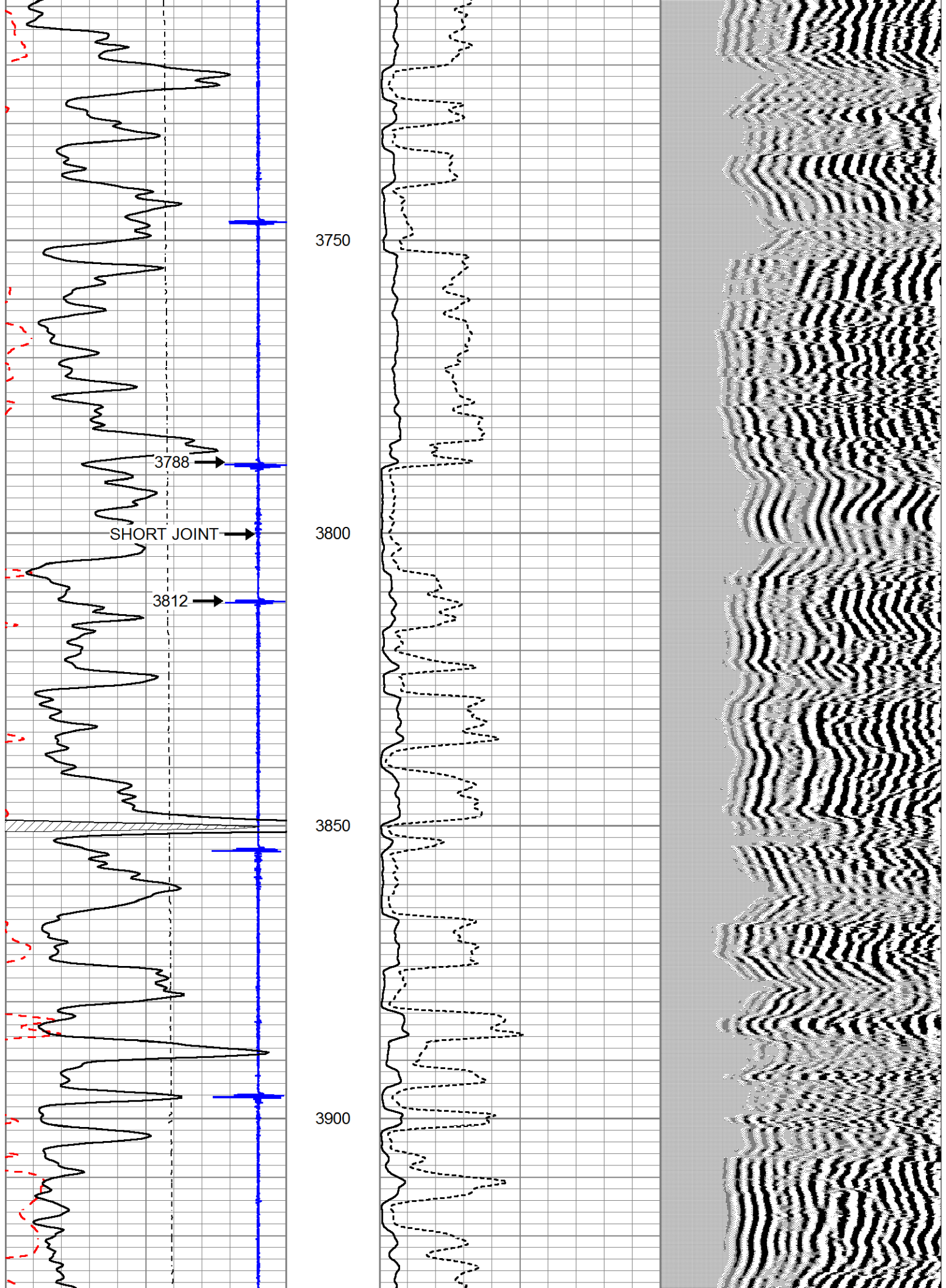


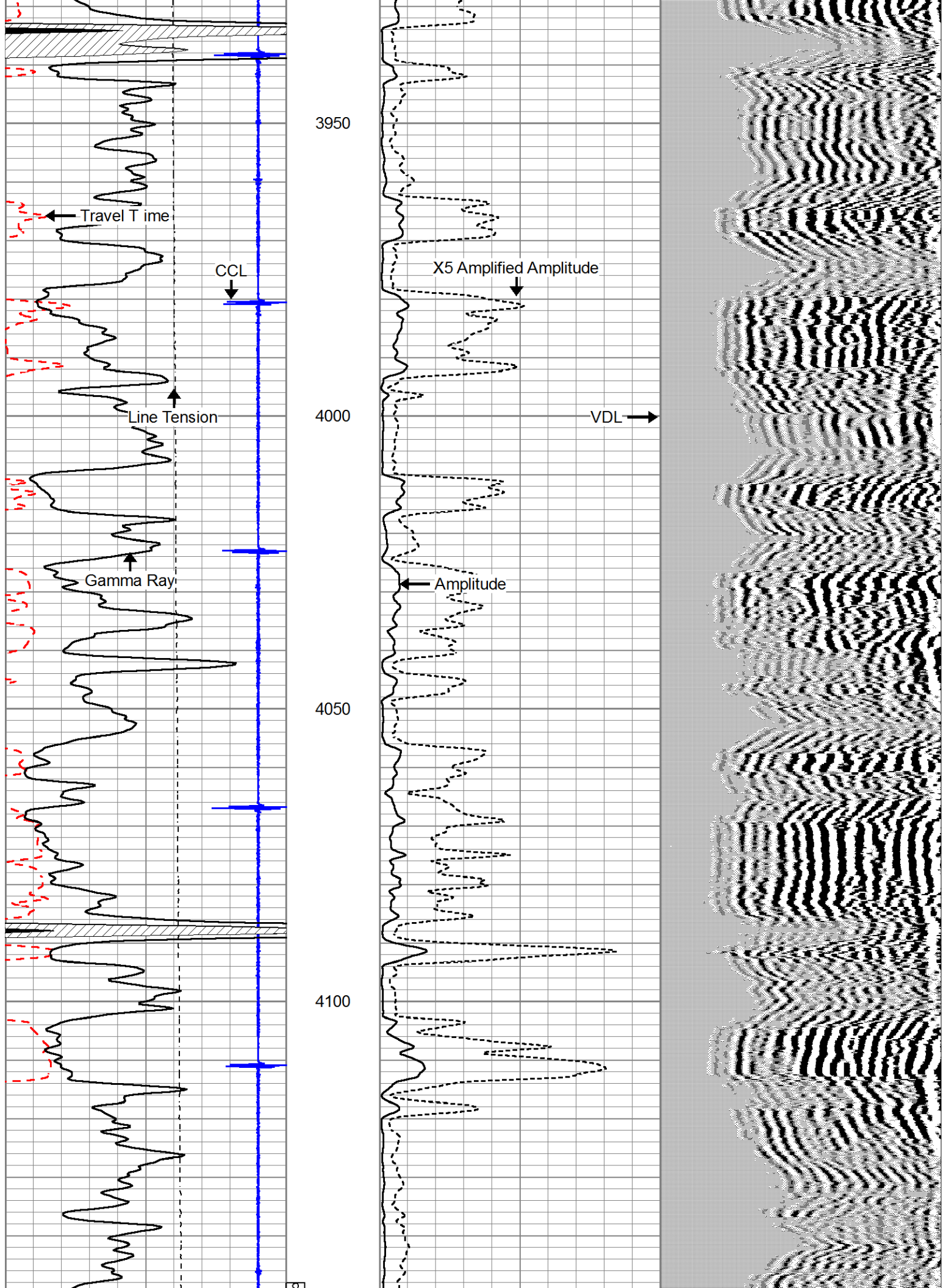


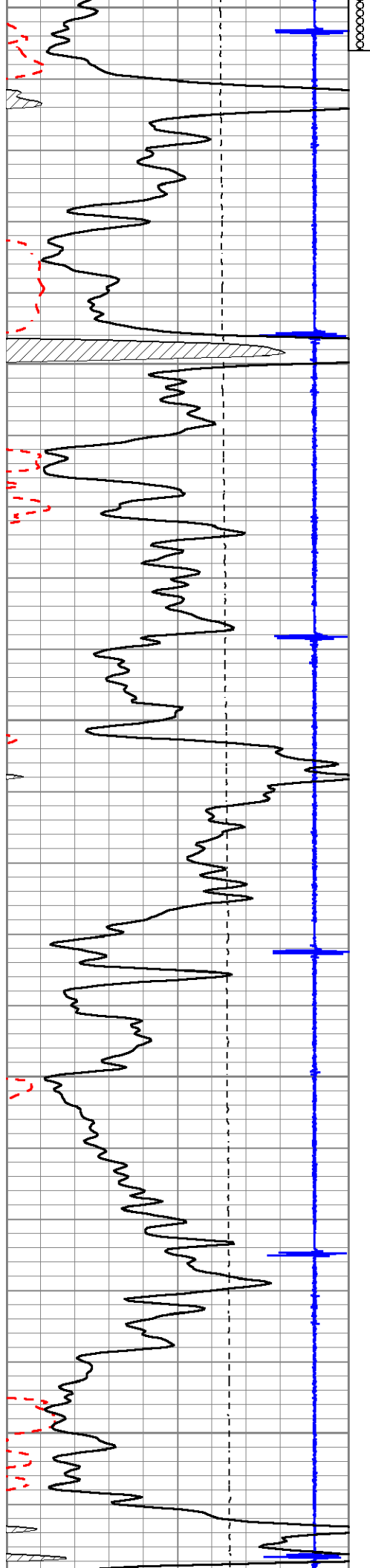




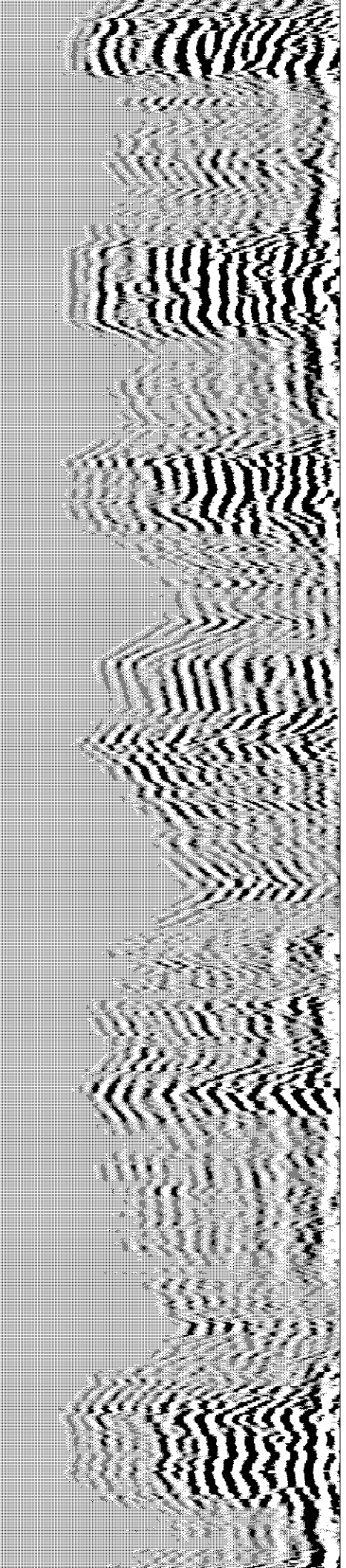
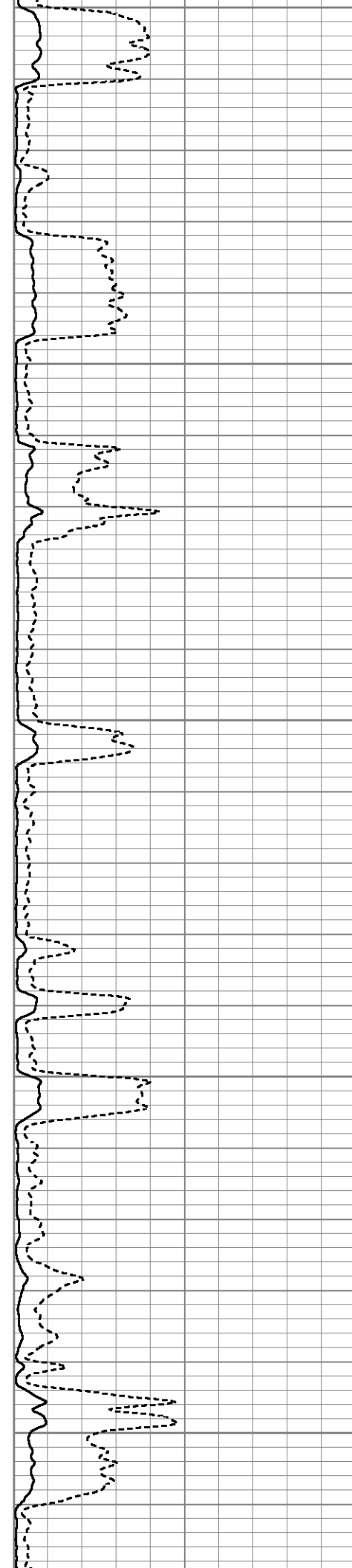


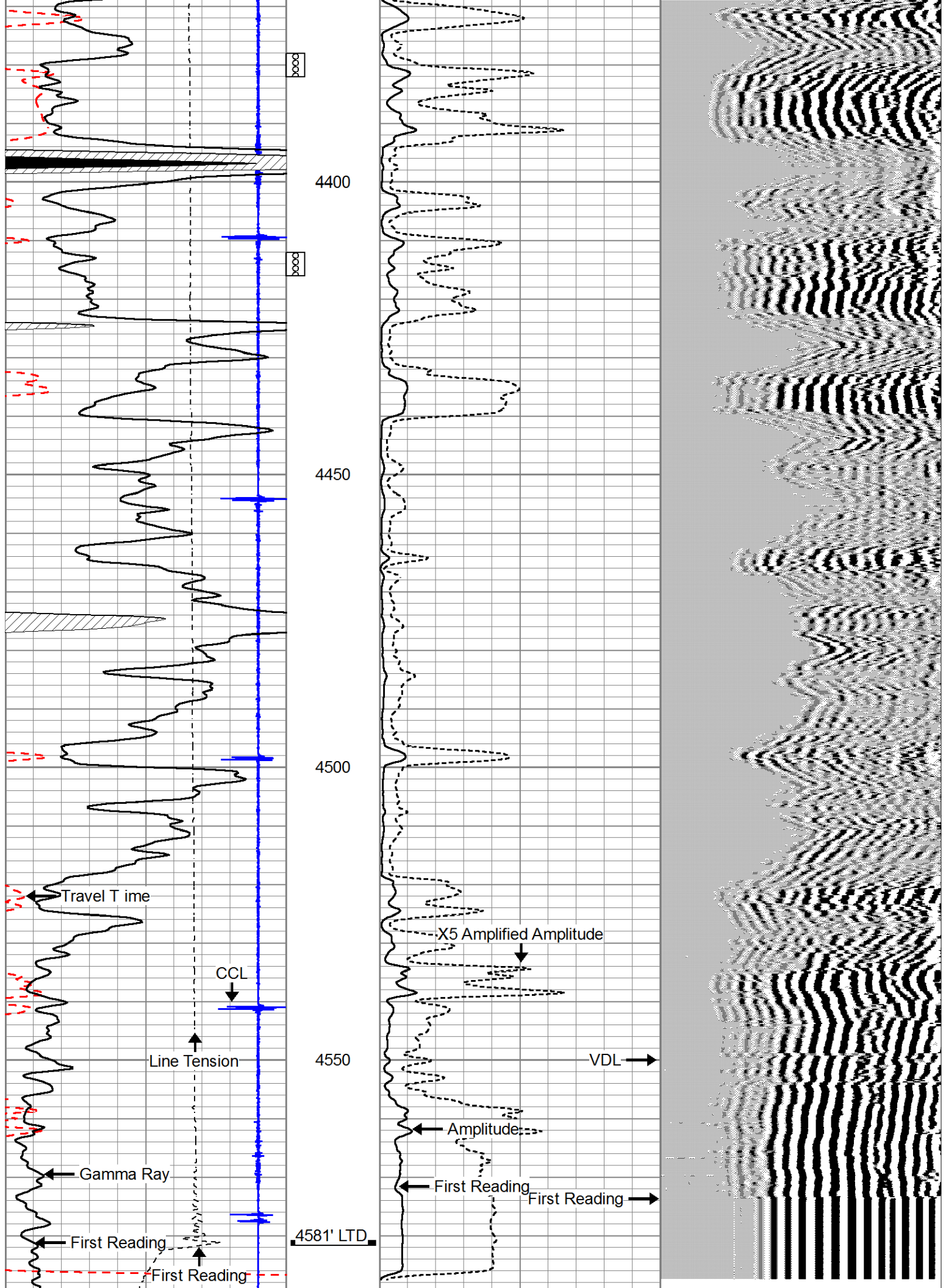






4150
4200
4250
4300
4350





320	Travel Time (usec)	120
-9	Collar Locator	1
0	LTEN (lb)	1500
0	Gamma Ray (GAPI)	150
150	Gamma Ray (GAPI)	300
300	Gamma Ray (GAPI)	450

0	Amplitude (mV)	100	200	VDL	1200
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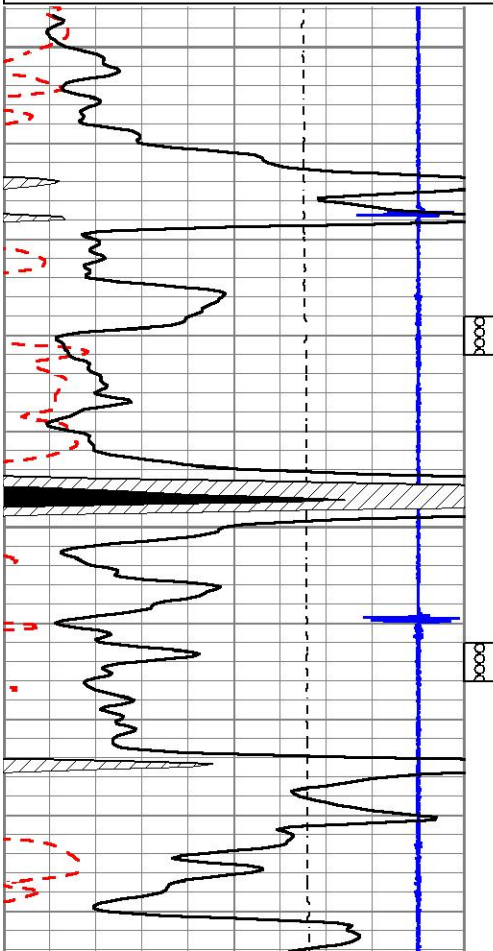


REPEAT SECTION

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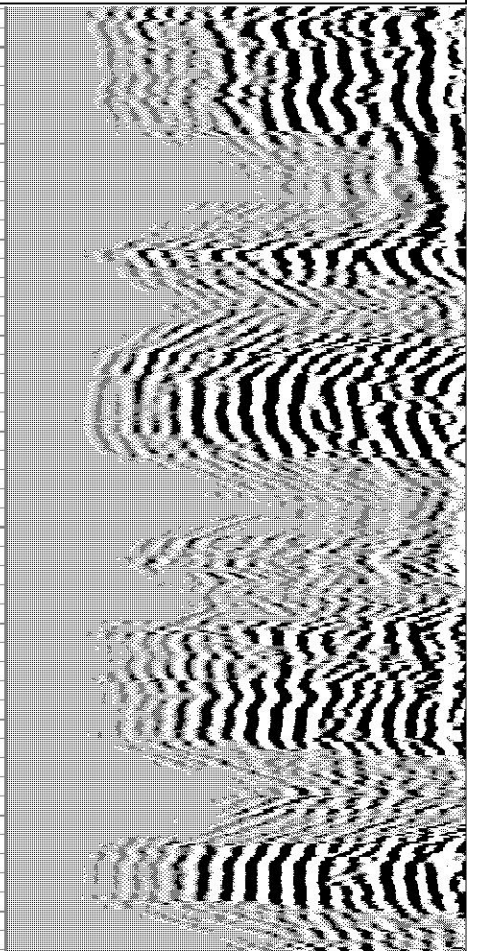
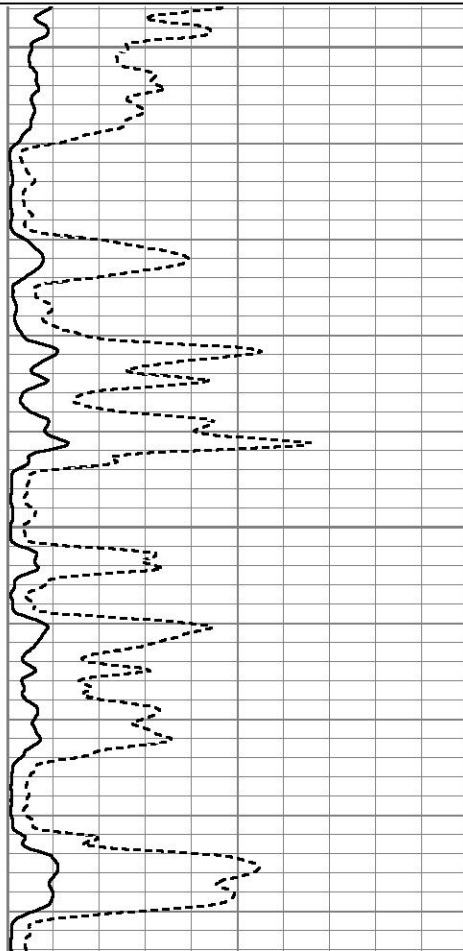
320	Travel Time (usec)	120
-9	Collar Locator	1
0	LTEN (lb)	1500
0	Gamma Ray (GAPI)	150
150	Gamma Ray (GAPI)	300
300	Gamma Ray (GAPI)	450

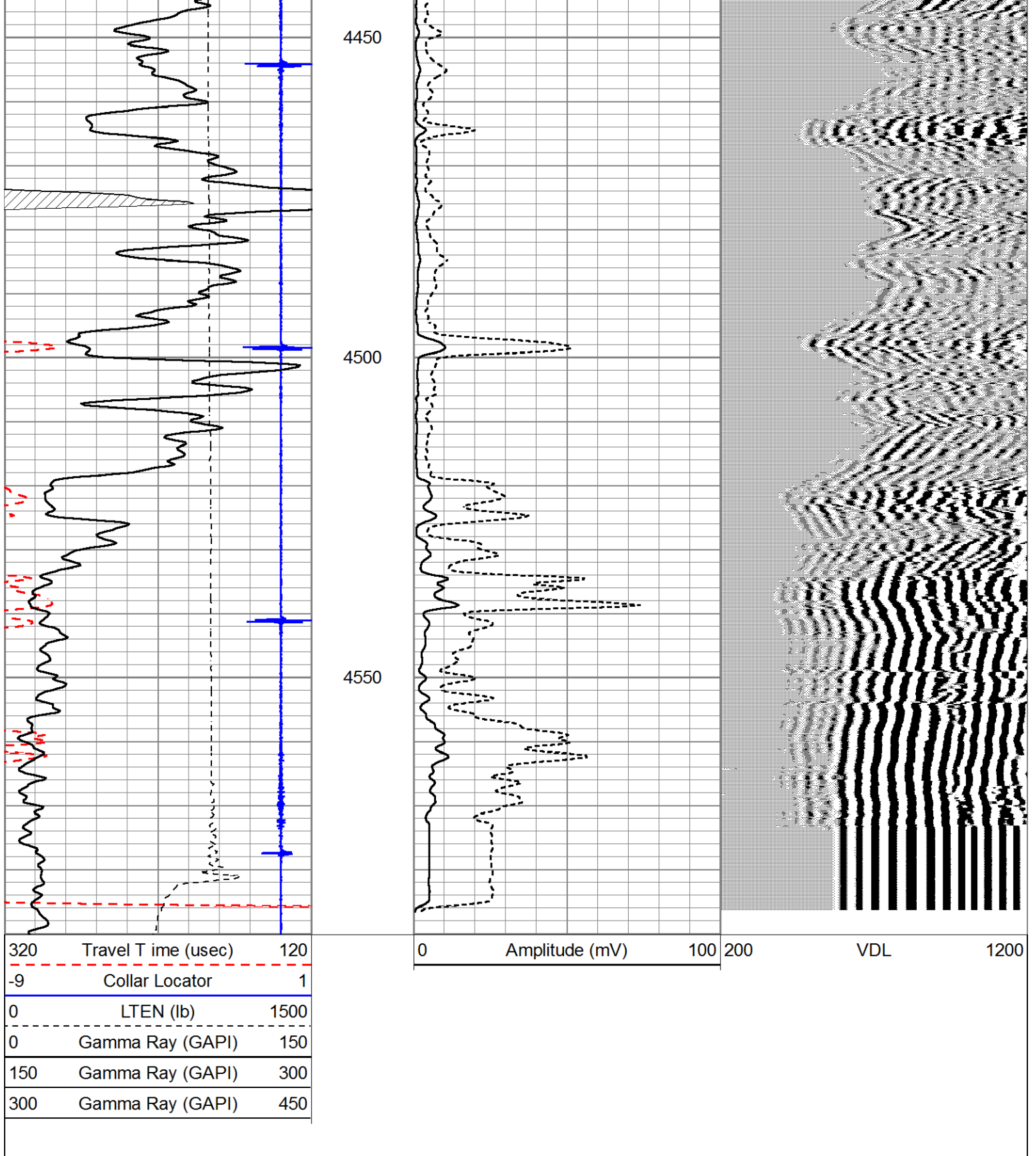
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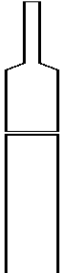


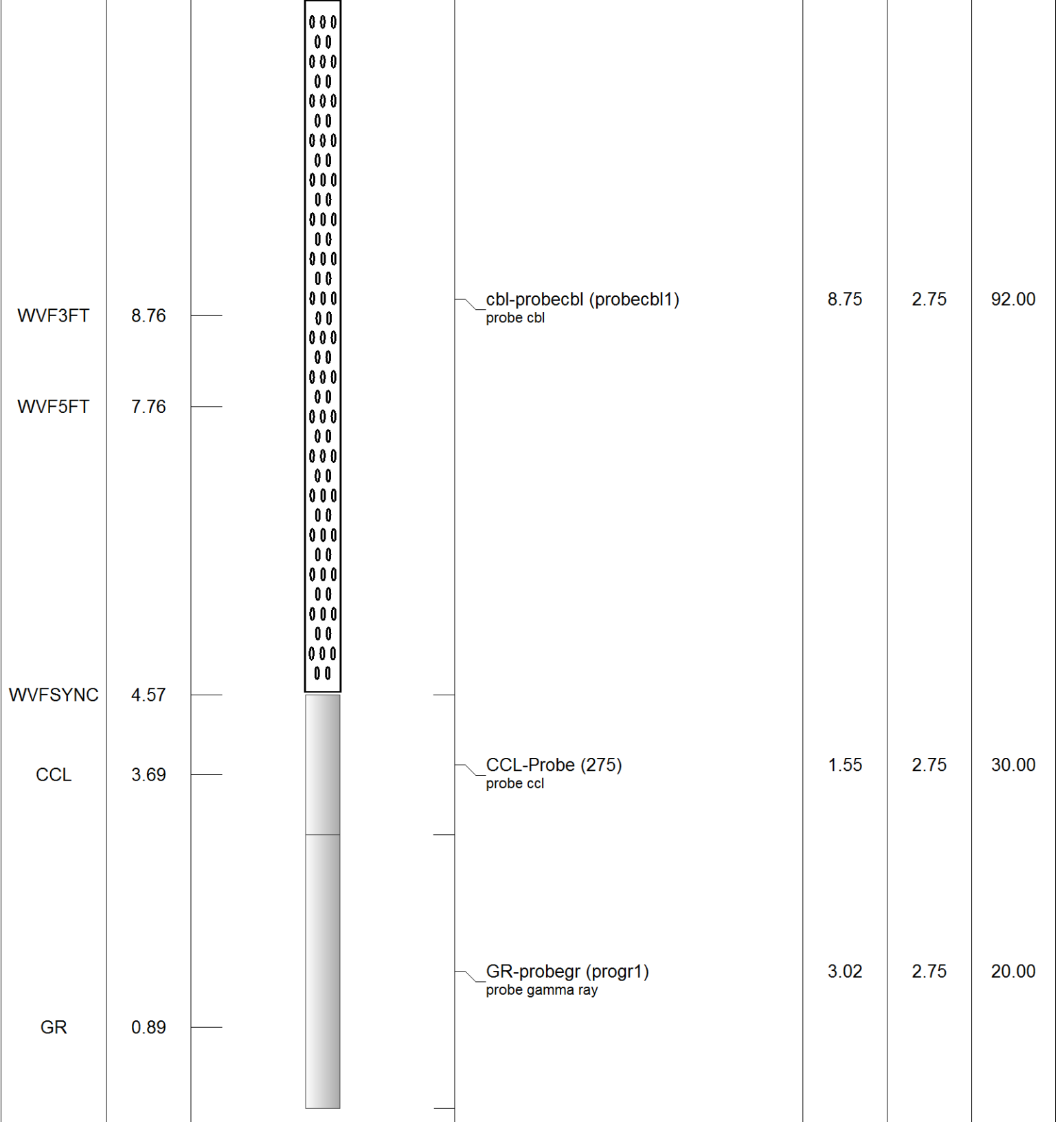
4350

4400





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-STNDRD Standard Cable Head	1.00	1.69	10.00



Dataset: depe1.db: field/well/run1/pass2
 Total length: 14.32 ft
 Total weight: 152.00 lb
 O.D.: 2.75 in