



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1077675
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: _____

1077675

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

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

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

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

April 03, 2012

Jack Renfro
Credo Petroleum Corporation
1801 BROADWAY # 900
DENVER, CO 80202-3858

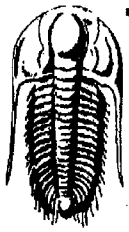
Re: ACO1
API 15-145-21666-00-00
SPRINGER TRUST 1-18
SE/4 Sec.18-20S-19W
Pawnee County, Kansas

Dear Production Department:

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

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

Respectfully,
Jack Renfro



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corporation

18-20s-19w-Pawnee

1801 Broadway
Suite 900
Denver, CO. 80202
ATTN: Bruce Ard

Springer Trust #1-18

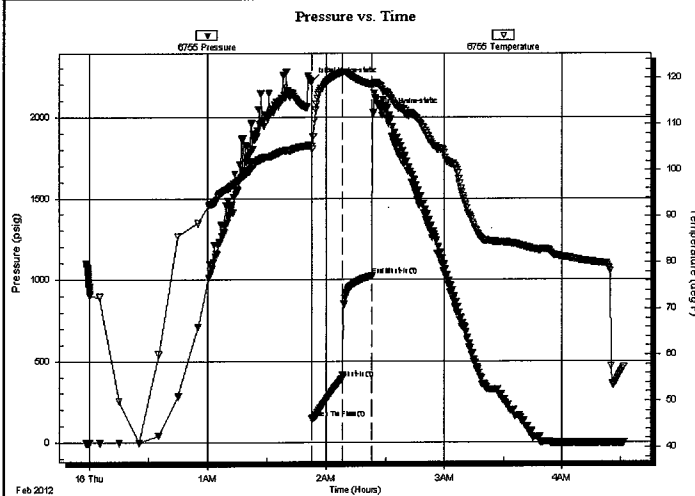
Job Ticket: 46430 **DST#: 1**
Test Start: 2012.02.15 @ 23:57:59

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 01:52:44
 Time Test Ended: 04:31:44
 Interval: **4217.00 ft (KB) To 4259.00 ft (KB) (TVD)**
 Total Depth: 4279.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 2213.00 ft (KB)
 2208.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6755 **Inside**
 Press@RunDepth: 391.71 psig @ 4254.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.15 End Date: 2012.02.16 Last Calib.: 2012.02.16
 Start Time: 23:58:01 End Time: 04:31:44 Time On Btm: 2012.02.16 @ 01:52:29
 Time Off Btm: 2012.02.16 @ 02:23:59

TEST COMMENT: IFP-Strong, BOB in 1 Min.
 ISI-Slight Surface Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2221.61	105.27	Initial Hydro-static
1	147.18	104.70	Open To Flow (1)
16	391.71	121.17	Shut-In(1)
31	1021.85	118.57	End Shut-In(1)
32	2032.11	118.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
750.00	Muddy Water-95%W-5%M	9.40

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corporation

18-20s-19w-Pawnee

1801 Broadway
Suite 900
Denver, CO. 80202
ATTN: Bruce Ard

Springer Trust #1-18

Job Ticket: 46430 **DST#: 1**

Test Start: 2012.02.15 @ 23:57:59

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:	37000 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.40 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7400.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
750.00	Muddy Water-95%W-5%M	9.400

Total Length: 750.00 ft Total Volume: 9.400 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

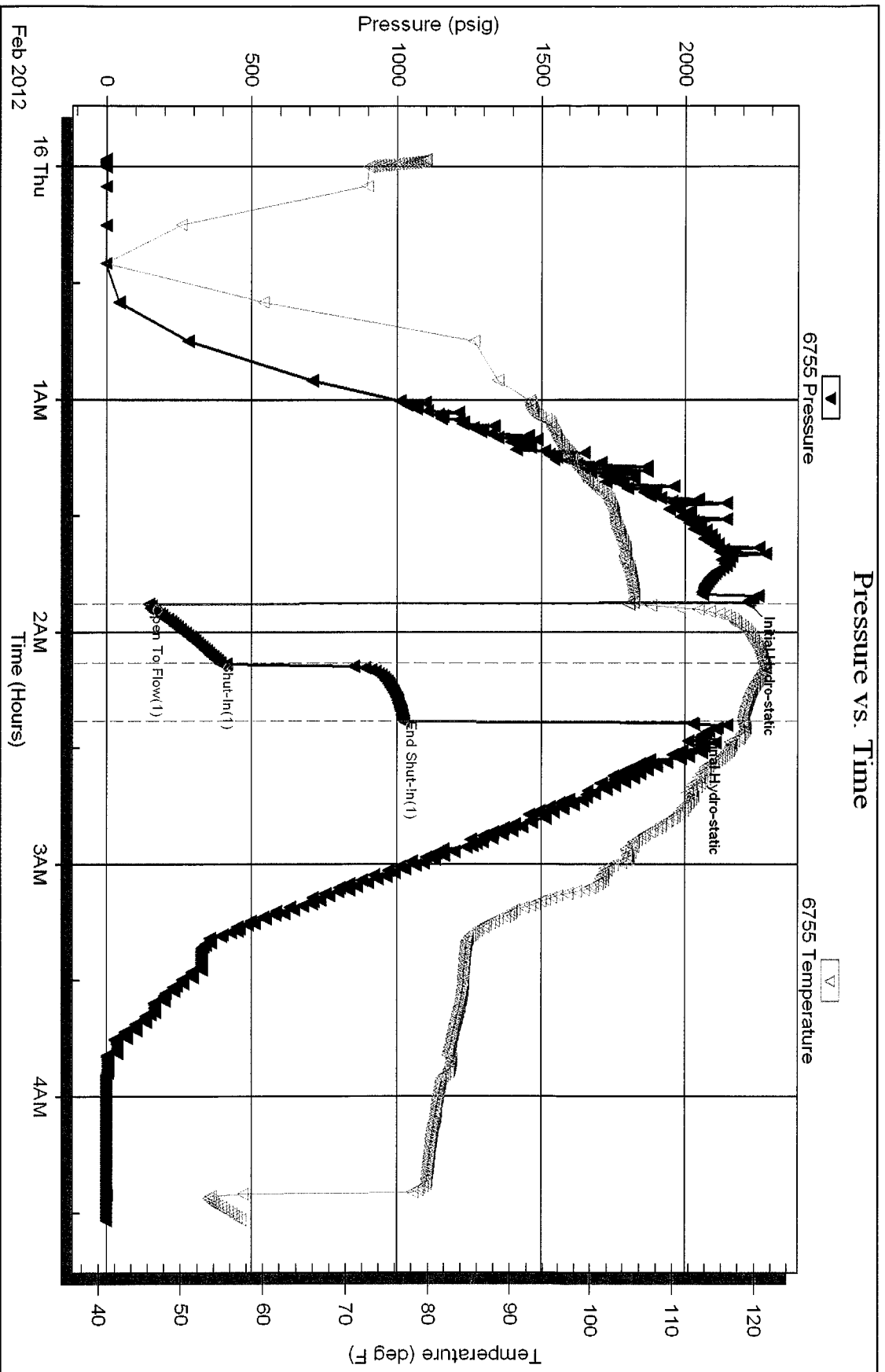
Serial #: 6755

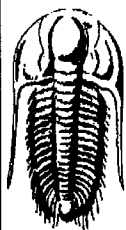
Inside

Ordo Petroleum Corporation

Springer Trust #1-18

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corporation

1801 Broadway
Suite 900
Denver, CO. 80202
ATTN: Bruce Ard

18-20s-19w-Pawnee

Springer Trust #1-18

Job Ticket: 46431 **DST#: 2**

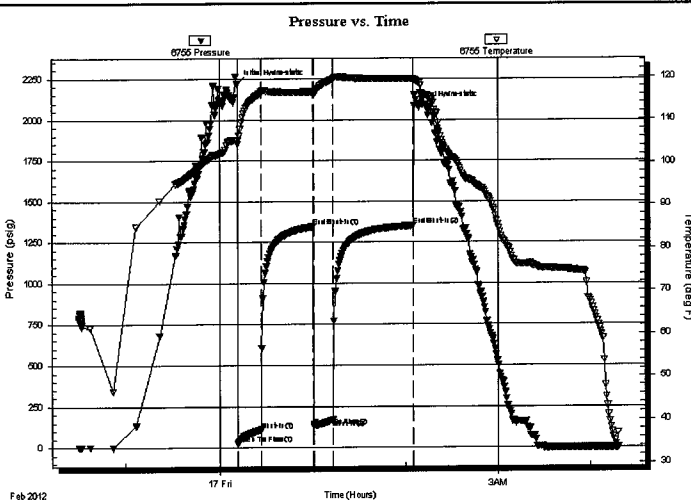
Test Start: 2012.02.16 @ 22:29:45

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 00:11:45
 Time Test Ended: 04:17:45
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Interval: **ft (KB) To ft (KB) (TVD)**
 Total Depth: 4342.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Reference Elevations: 2213.00 ft (KB)
 2208.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6755 Inside
 Press@RunDepth: 168.53 psig @ 4336.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.16 End Date: 2012.02.17 Last Calib.: 2012.02.17
 Start Time: 22:29:47 End Time: 04:17:45 Time On Btm: 2012.02.17 @ 00:11:30
 Time Off Btm: 2012.02.17 @ 02:05:30

TEST COMMENT: IFF-Strong Blow ,BOB in 7-1/2 Min.
 IS-Dead
 FFP-Good Blow ,BOB in 9 Min.
 FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2219.04	105.04	Initial Hydro-static
1	25.84	104.29	Open To Flow (1)
15	109.78	116.27	Shut-In(1)
49	1344.37	116.44	End Shut-In(1)
49	129.36	115.85	Open To Flow (2)
61	168.53	119.43	Shut-In(2)
114	1351.16	119.46	End Shut-In(2)
114	2083.47	119.25	Final Hydro-static

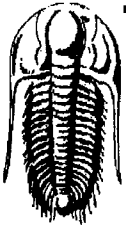
Recovery

Length (ft)	Description	Volume (bbl)
250.00	Muddy Water- 95%W-5%M	2.39

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corporation

18-20s-19w-Pawnee

1801 Broadway
Suite 900
Denver, CO. 80202
ATTN: Bruce Ard

Springer Trust #1-18

Job Ticket: 46431

DST#: 2

Test Start: 2012.02.16 @ 22:29:45

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:

30000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
250.00	Muddy Water- 95%W-5%M	2.386

Total Length: 250.00 ft

Total Volume: 2.386 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

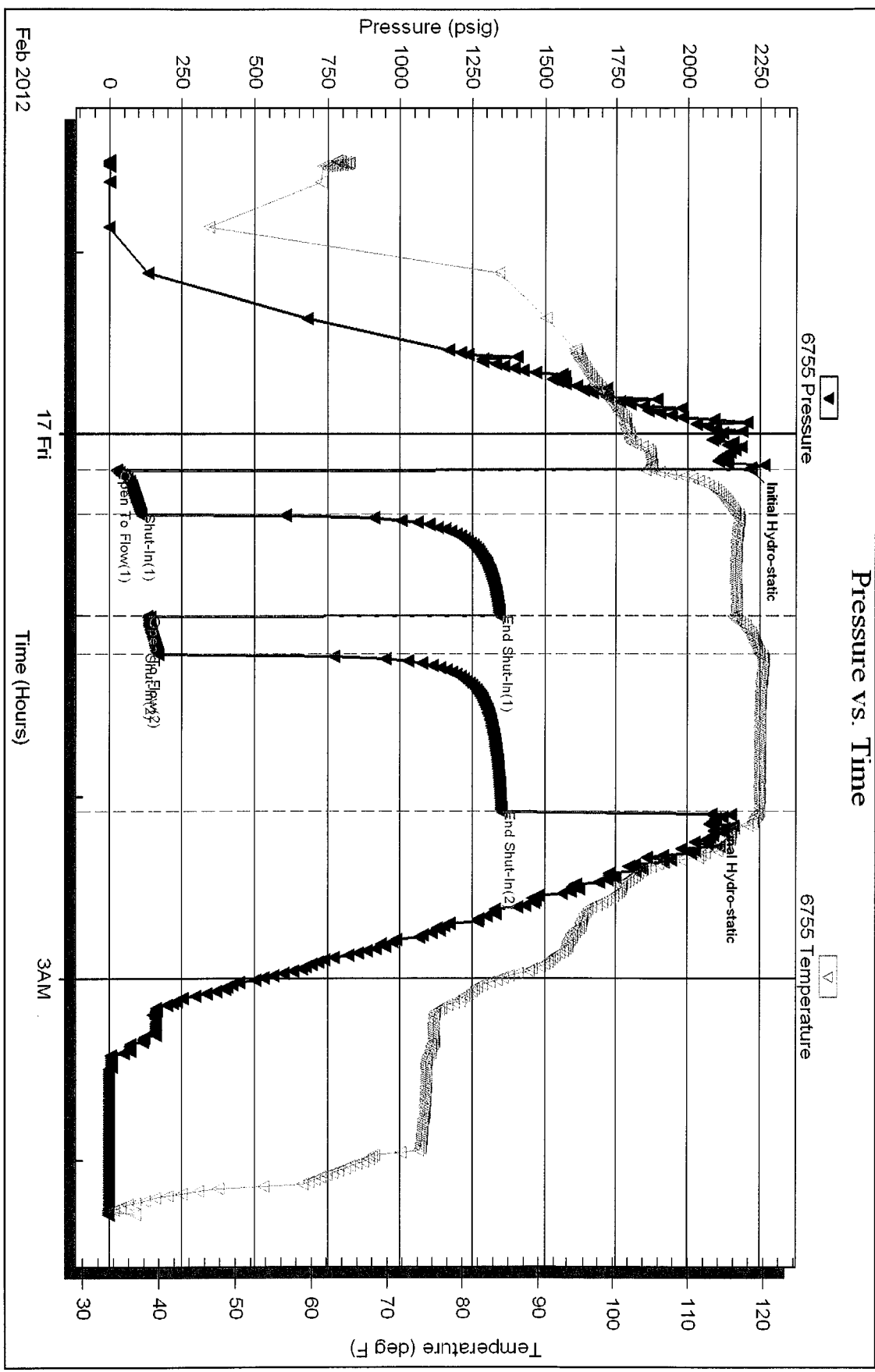
Inside

Crdo Petroleum Corporation

Springer Trust #1-18

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 46431

Printed: 2012.02.17 @ 09:16:47

ALLIED CEMENTING CO., LLC.

042435

Federal Tax I.D. # 20-5975604

REMIT TO PO. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Geotek, KS

DATE <u>2-17-12</u>	SEC <u>18</u>	TWP <u>R05</u>	RANGE <u>19W</u>	LOCATED OUT	ON LOCATION	JOB START 4:30	JOB FINISH 9:20 PM
<u>Springer</u> LEASE TRUST	WELL # <u>1-18</u>	LOCATION <u>Ass's center, South to house</u>		COUNTY <u>Reno</u>	STATE <u>Kansas</u>		
OLD OR NEW (Circle one)				CITY & ADJ. WEST 7/1/10 1/2 SOUTH			

CONTRACTOR Wm Polking Rig #10 OWNER Credo Petroleum
 TYPE OF JOB Rotary Pile
 HOLE SIZE 12 1/4 ID. 14 1/2
 CASING SIZE 6 5/8 DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT EQUIPMENT

PUMP TRUCK CEMENTER Dustin C
 # 338 HELPER Greg R
 BULK TRUCK
 # 341 DRIVER Tiffany H
 BULK TRUCK DRIVER

REMARKS:

Rig up
1st plug 1440 EX 505x
2nd plug 450 EX 605x
3rd plug 250 H 505x
4th plug 60 EX 605x
Post hole 305x
plug down 9:20pm
Rig Run

CHARGE TO: Credo Petroleum
 STREET _____
 CITY _____ STATE _____ ZIP _____

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

PRINTED NAME X MARY MILK
 SIGNATURE X [Signature]

Thank You!!

CEMENT	AMOUNT ORDERED	<u>230</u>	<u>60% class 4</u>
	<u>407 P02</u>	<u>4 1/2 gal</u>	<u>12 Flt-50al</u>
COMMON	<u>138</u>	@ <u>16.25</u>	<u>2242.50</u>
POZMIX	<u>92</u>	@ <u>8.50</u>	<u>782.00</u>
GEL	<u>8</u>	@ <u>21.25</u>	<u>170.00</u>
CHLORIDE		@	
ASC		@	
	<u>Flt50al</u>	<u>58</u>	@ <u>2.70</u> <u>156.60</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>245</u>	@	<u>2.25</u> <u>540.00</u>
MILEAGE	<u>240 X 50 X .11</u>	@	<u>1320.00</u>
TOTAL			<u>5211.10</u>

SERVICE	DEPTH OF JOB	<u>1440</u>	
	PUMP TRUCK CHARGE	<u>1250.00</u>	
	EXTRA FOOTAGE		@
	MILEAGE	<u>400</u>	@ <u>7.00</u> <u>2800.00</u>
	MANIFOLD	<u>400</u>	@ <u>4.00</u> <u>1600.00</u>
			@
			@
			@
			@
			@
			@
TOTAL			<u>1800.00</u>

PUMP & FLOAT EQUIPMENT		@	
		@	
		@	
		@	
		@	
		@	
TOTAL			

SALES TAX (If Any) _____
 TOTAL CHARGES 7011.10
508.25 1963.20
 DISCOUNT _____
5047.80 IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 042431

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Crescent Bendles

DATE <u>2-10-12</u>	SEC. <u>18</u>	TWP. <u>20S</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION	JOB START <u>9:45am</u>	JOB FINISH <u>1:15pm</u>
LEASE <u>Springer Trust</u>		WELL # <u>1-18</u>		LOCATION <u>Rush Center South to X Rd</u>		COUNTY <u>Pawnee</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)				<u>8 west to rd 310 15 west into</u>			

CONTRACTOR WWT Rgt #10 OWNER Cresco Petroleum

TYPE OF JOB Surface CEMENT AMOUNT ORDERED 170 sz Com 39ozc 2%gel

HOLE SIZE 12 1/4 T.D. 223
CASING SIZE 8 5/8 23# DEPTH 223

TUBING SIZE _____ DEPTH _____
DRILL PIPE 4 1/2 DEPTH _____

TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15ft
PERFS. _____
DISPLACEMENT freshwater

EQUIPMENT

PUMP TRUCK CEMENTER Bob R.
398 HELPER Vince P

BULK TRUCK DRIVER Kevin W.
482-188

BULK TRUCK DRIVER _____

HANDLING 179 @ 2.25 402.75
MILEAGE 179 x 50 x .11 984.50

REMARKS: Pipe on bottom break Circulation with Org mud
via 170sz com 39ozc 2%gel
Displace with 13.25 bbl Fresh water and
shut in.
Cement Old Circulate

COMMON 170 @ 16.25 2,762.50
POZMIX @ _____
GEL 3 @ 21.25 63.75
CHLORIDE 6 @ 58.20 349.20
ASC @ _____

TOTAL 4,562.60

SERVICE

DEPTH OF JOB 223
PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @ _____
MILEAGE HUM 50 @ 7.00 350.00
MANIFOLD @ _____
HUM 50 @ 4.00 200.00

TOTAL 1675.00

PLUG & FLOAT EQUIPMENT

SALES TAX (If Any) _____

TOTAL CHARGES 6,237.60
50% DISC 1,707.80

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Justin Hamlin

SIGNATURE [Signature] 4529.80

CHARGE TO: Cresco Petroleum

STREET _____

CITY _____ STATE _____ ZIP _____

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



Dual Compensated
Porosity Log

DIGITAL LOG (785) 625-3858

API No. 15-145-21666-00-00

Company Credo Petroleum Corporation
Well Springer Trust #1-18
Field Wildcat
County Pawnee State Kansas

Location W2 E2 SE
1320' FSL / 990' FEL

Sec: 18 Twp: 20S Rge: 19W

Other Services
DIL

Permanent Datum Ground Level Elevation 2208
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2213
D.F. G.L. 2208

Date 2/17/2012

Run Number One

Type Log CNL / CDL

Depth Driller 4400

Depth Logger 4401

Bottom Logged Interval 4380

Top Logged Interval 3300

Type Fluid In Hole Chemical

Salinity, PPM CL 9200

Density 9.5

Level Full

Max. Rec. Temp. F 120

Operating Rig Time 3 Hours

Equipment -- Location 15 Hays

Recorded By R. Barnhart

Witnessed By Bruce Ard

Borehole Record				Casing Record			
Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	223	8.625	23#	00	223
Two	7.875	223	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

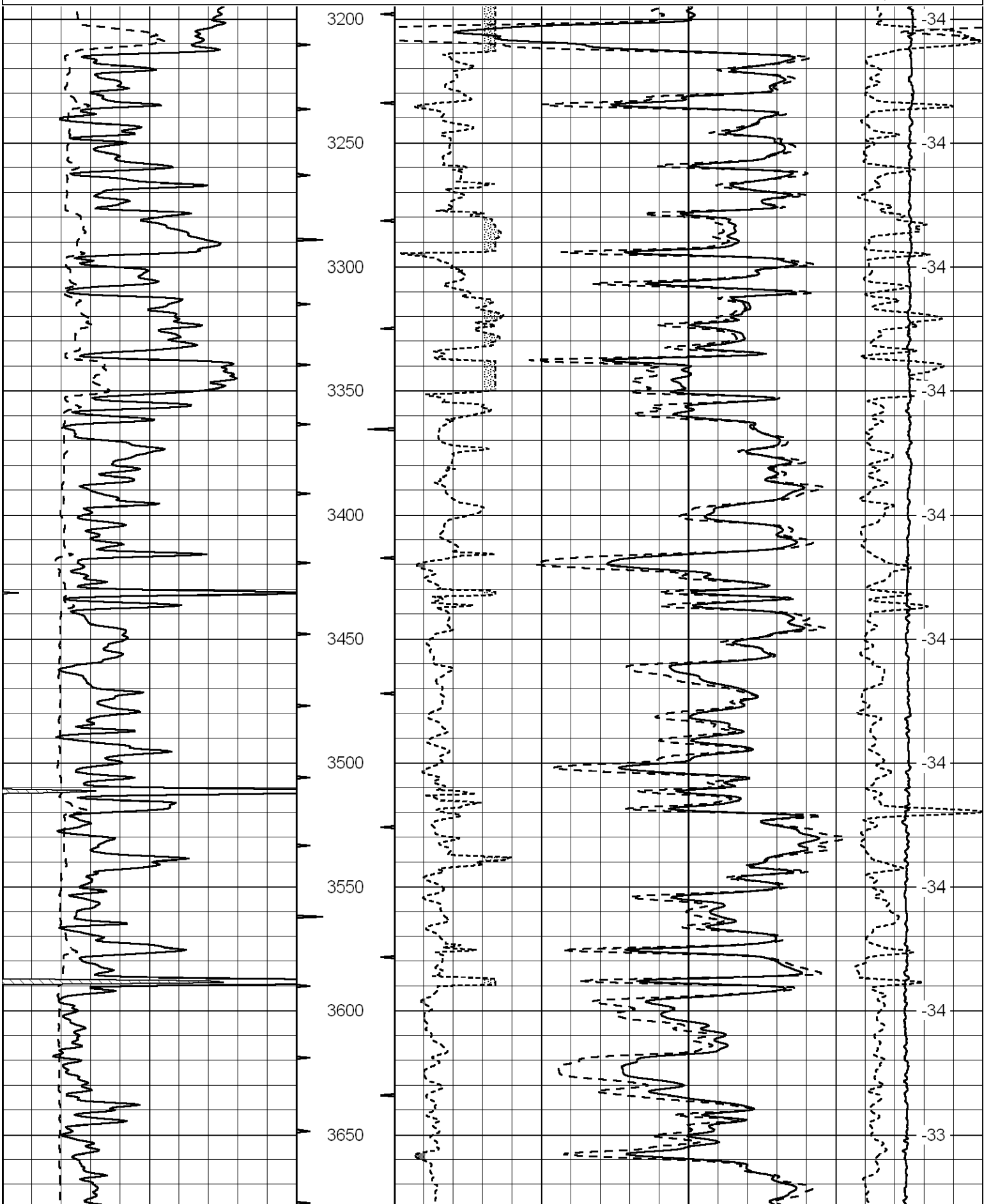
Thank you for using Log-Tech, Inc.
(785) 625-3858

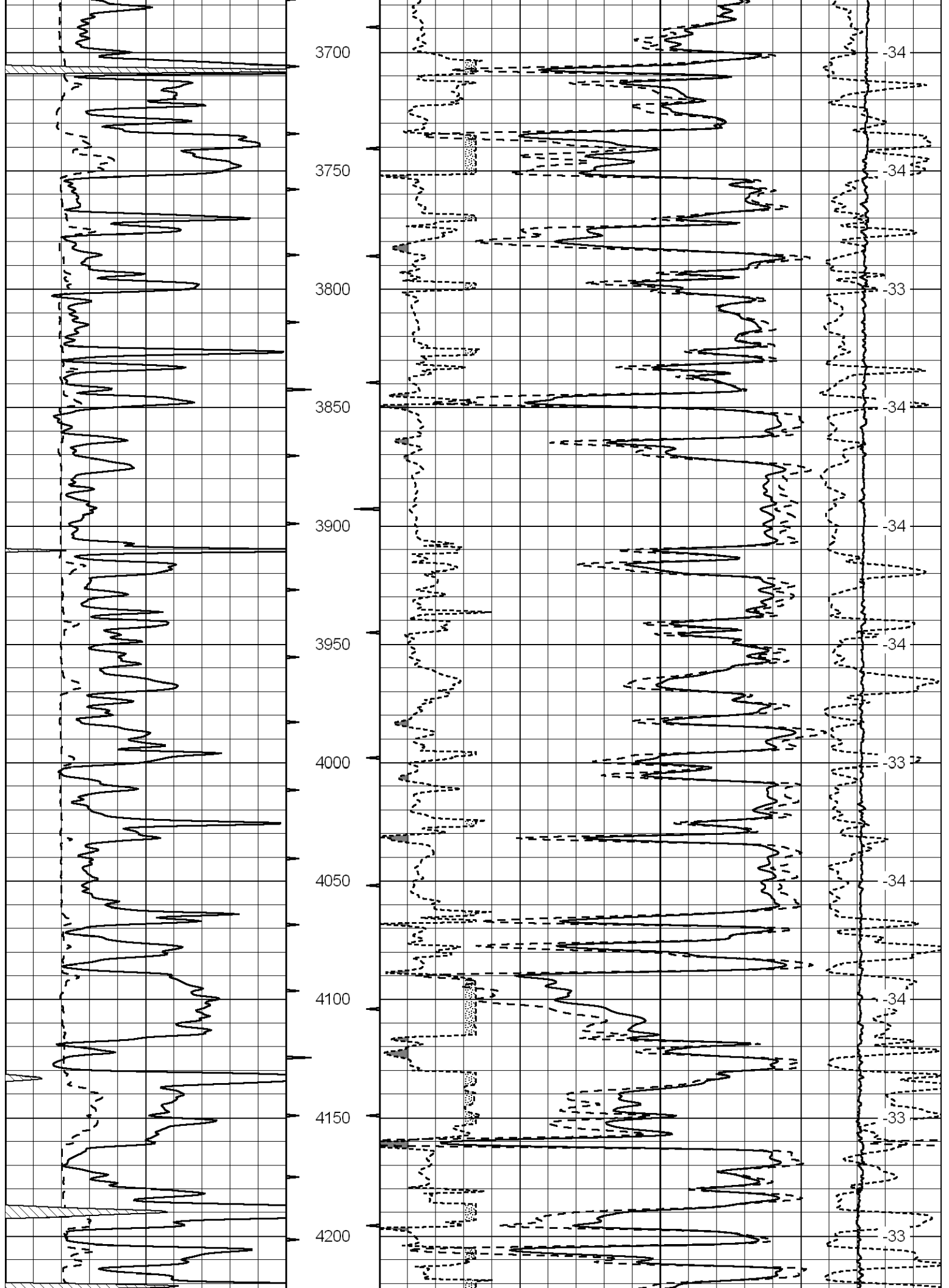
Rush Center, KS:
S to Co. Line, S to X Rd,
8W, 1/2S, W into

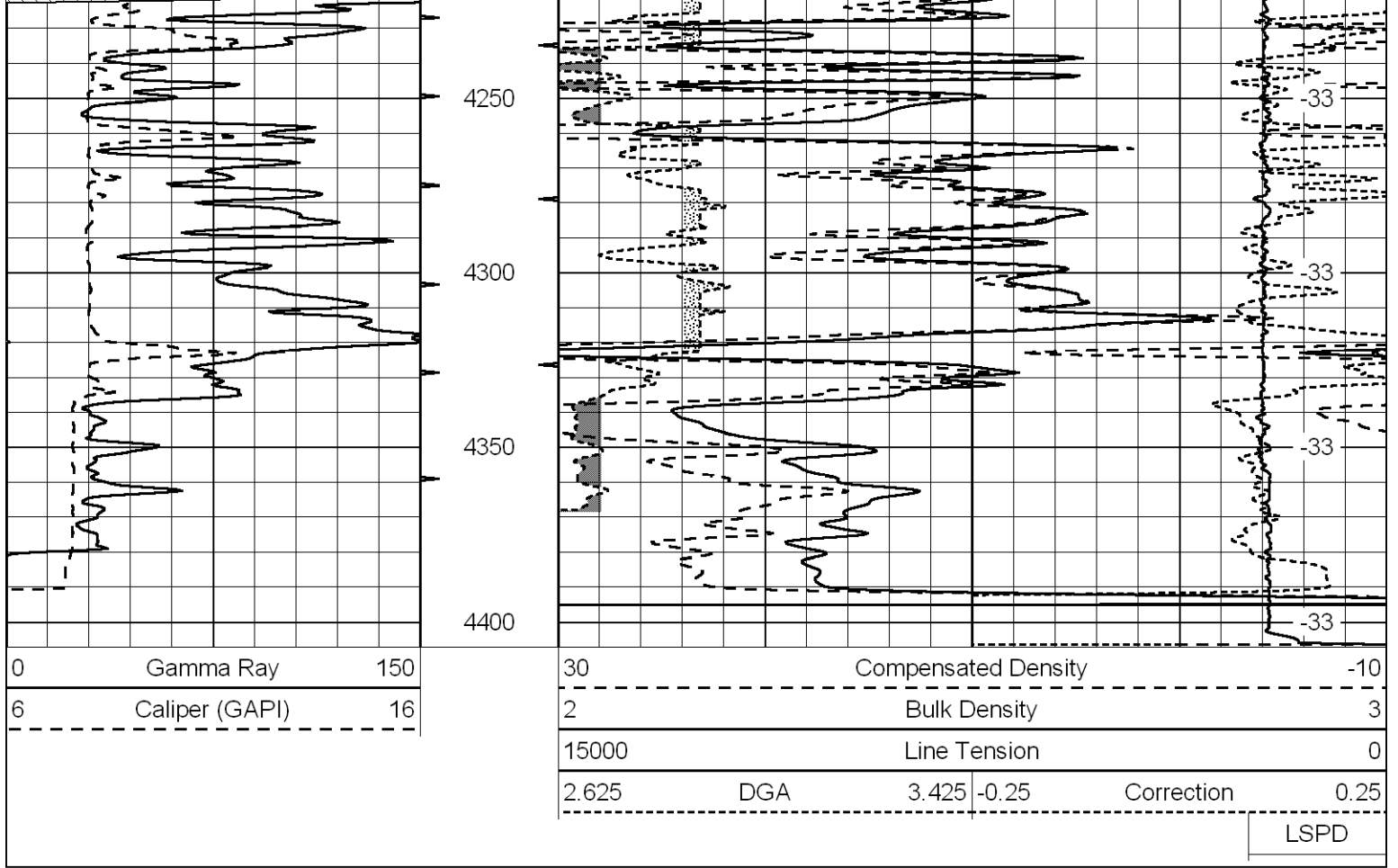
Database File: credohd.db
Dataset Pathname: dil/cremain
Presentation Format: cdl
Dataset Creation: Fri Feb 17 13:04:01 2012
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

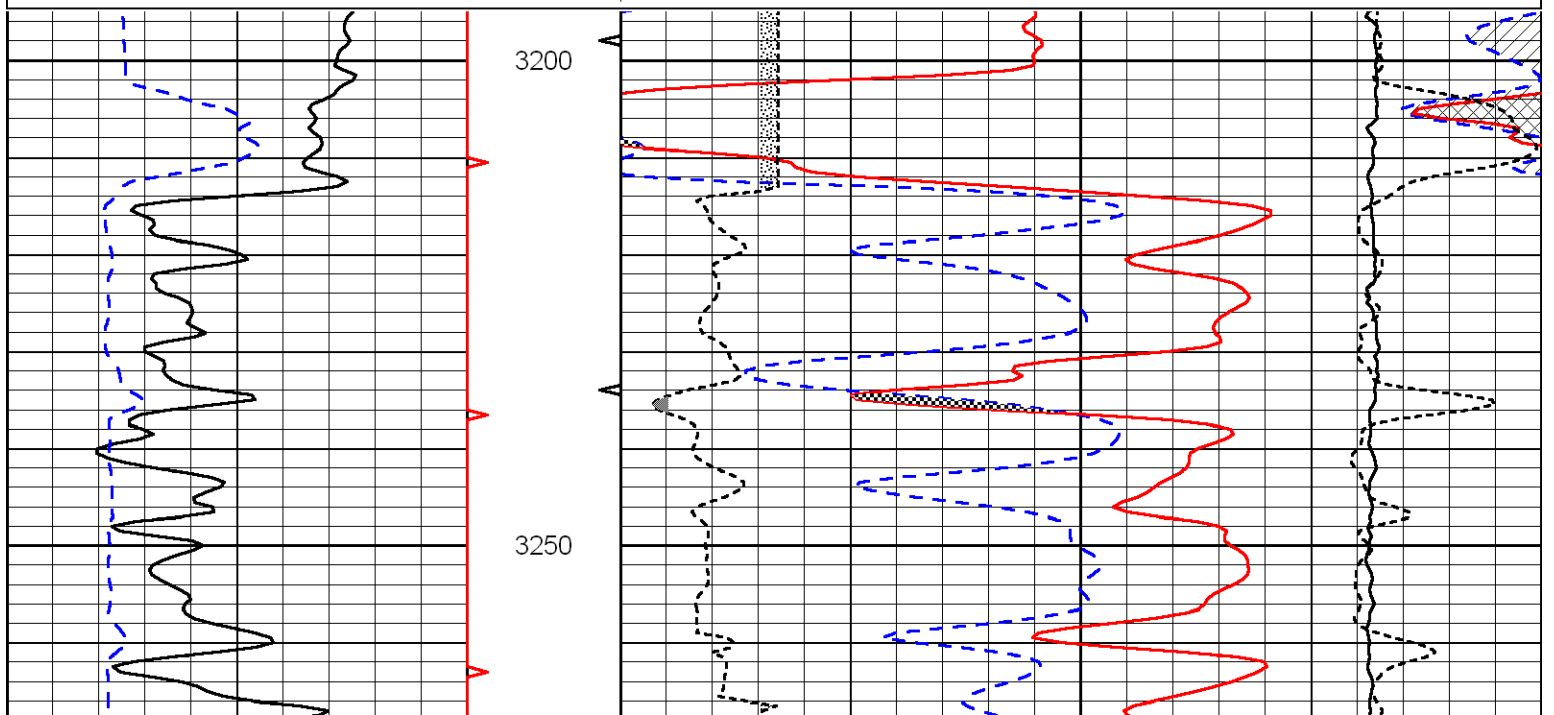
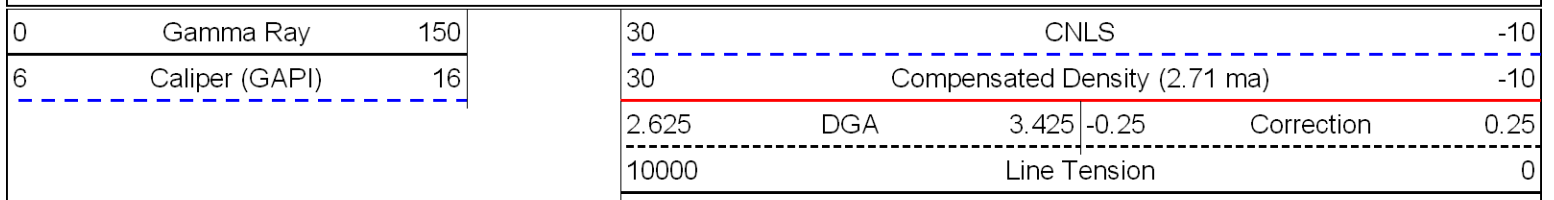
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

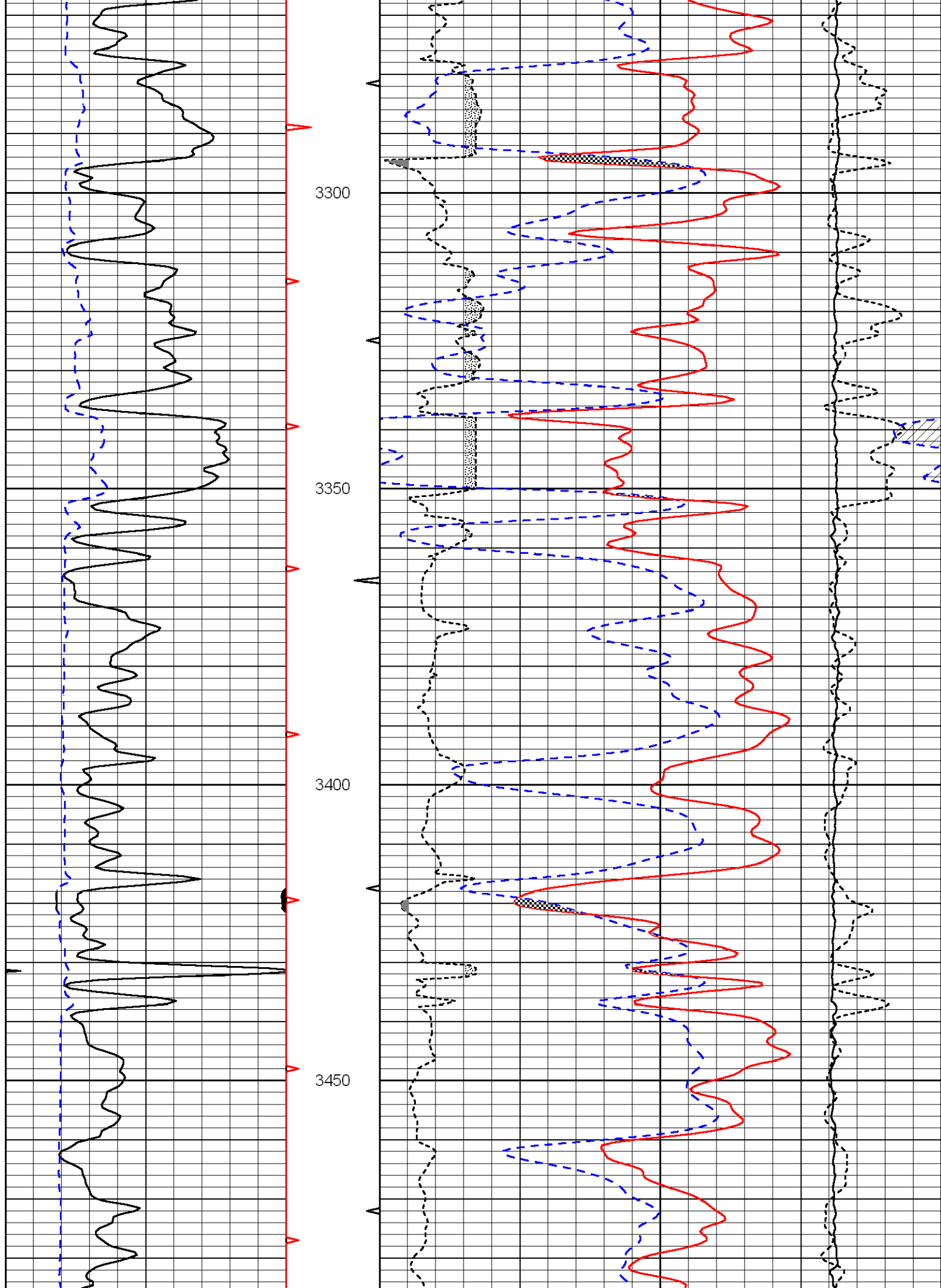


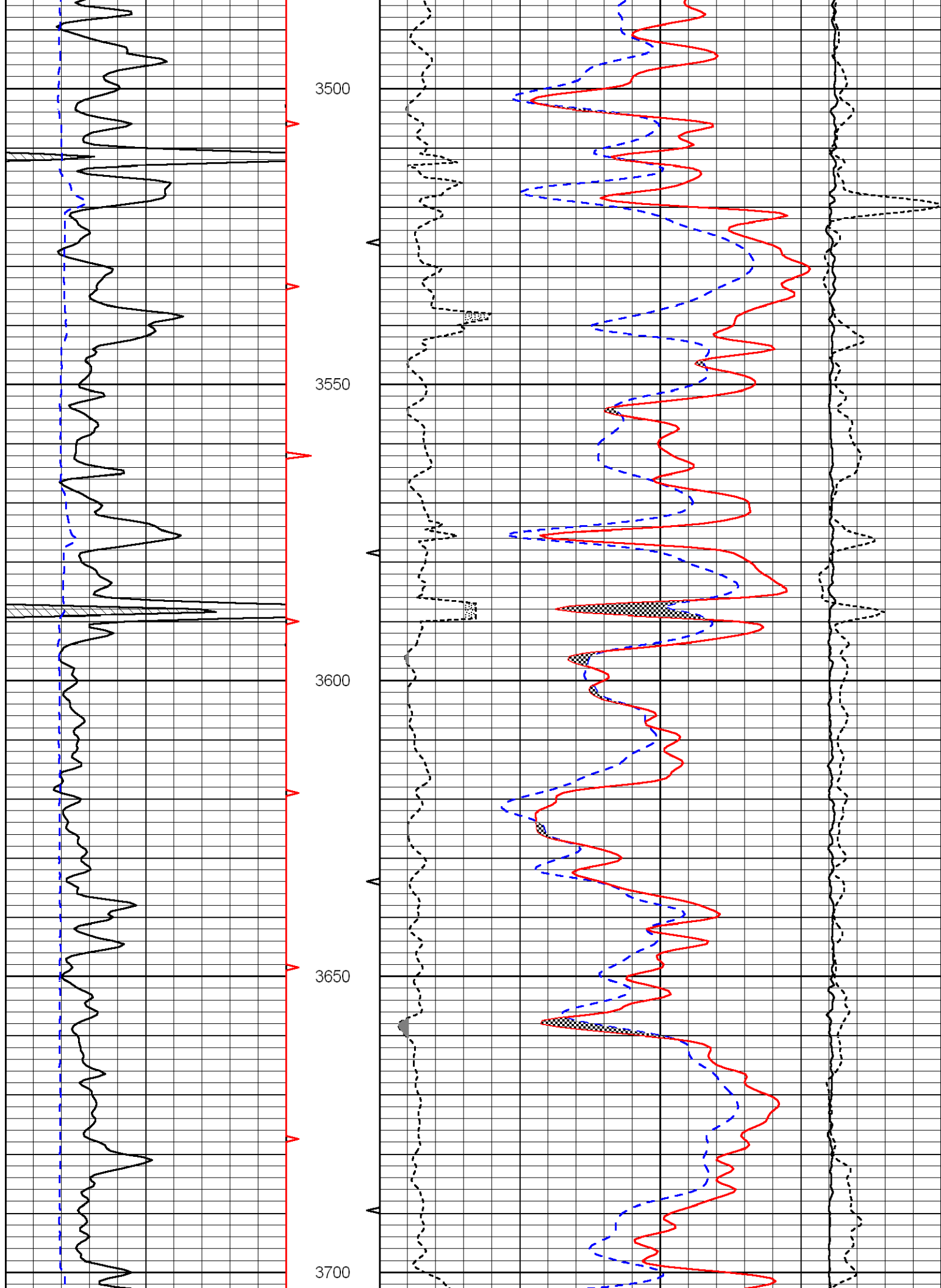


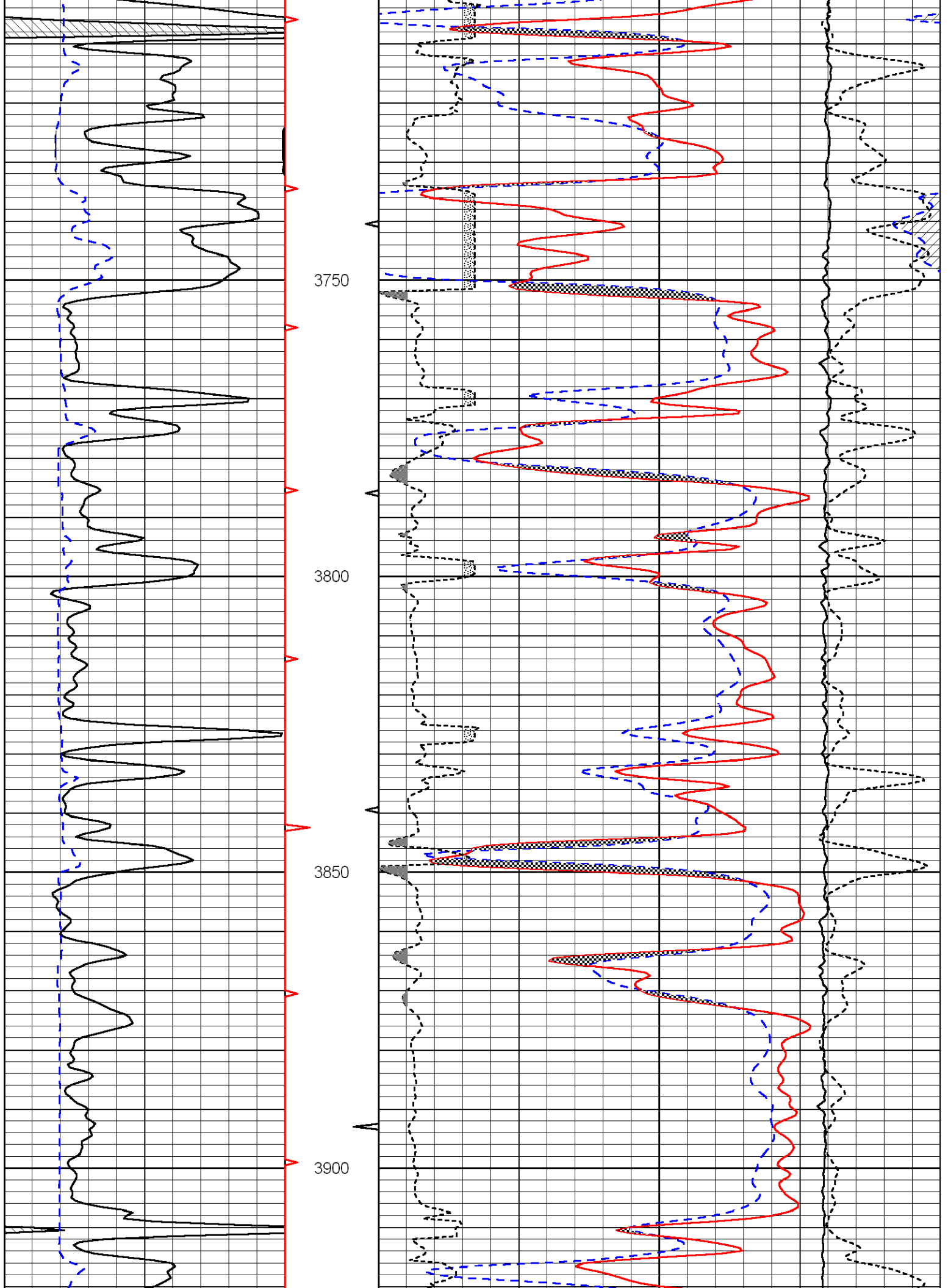


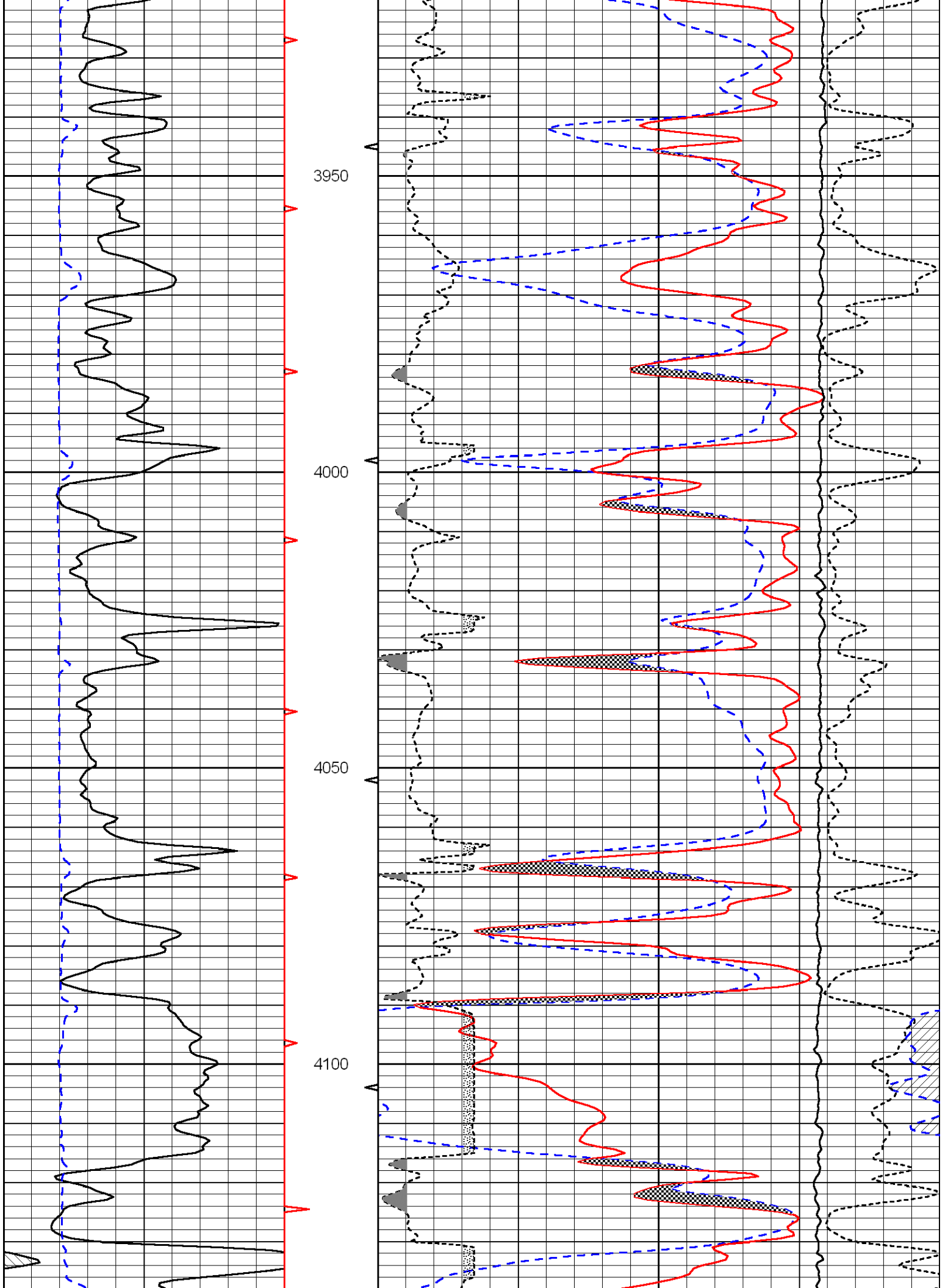
Database File: credohd.db
 Dataset Pathname: dil/cremain
 Presentation Format: cndlspec
 Dataset Creation: Fri Feb 17 13:04:01 2012
 Charted by: Depth in Feet scaled 1:240

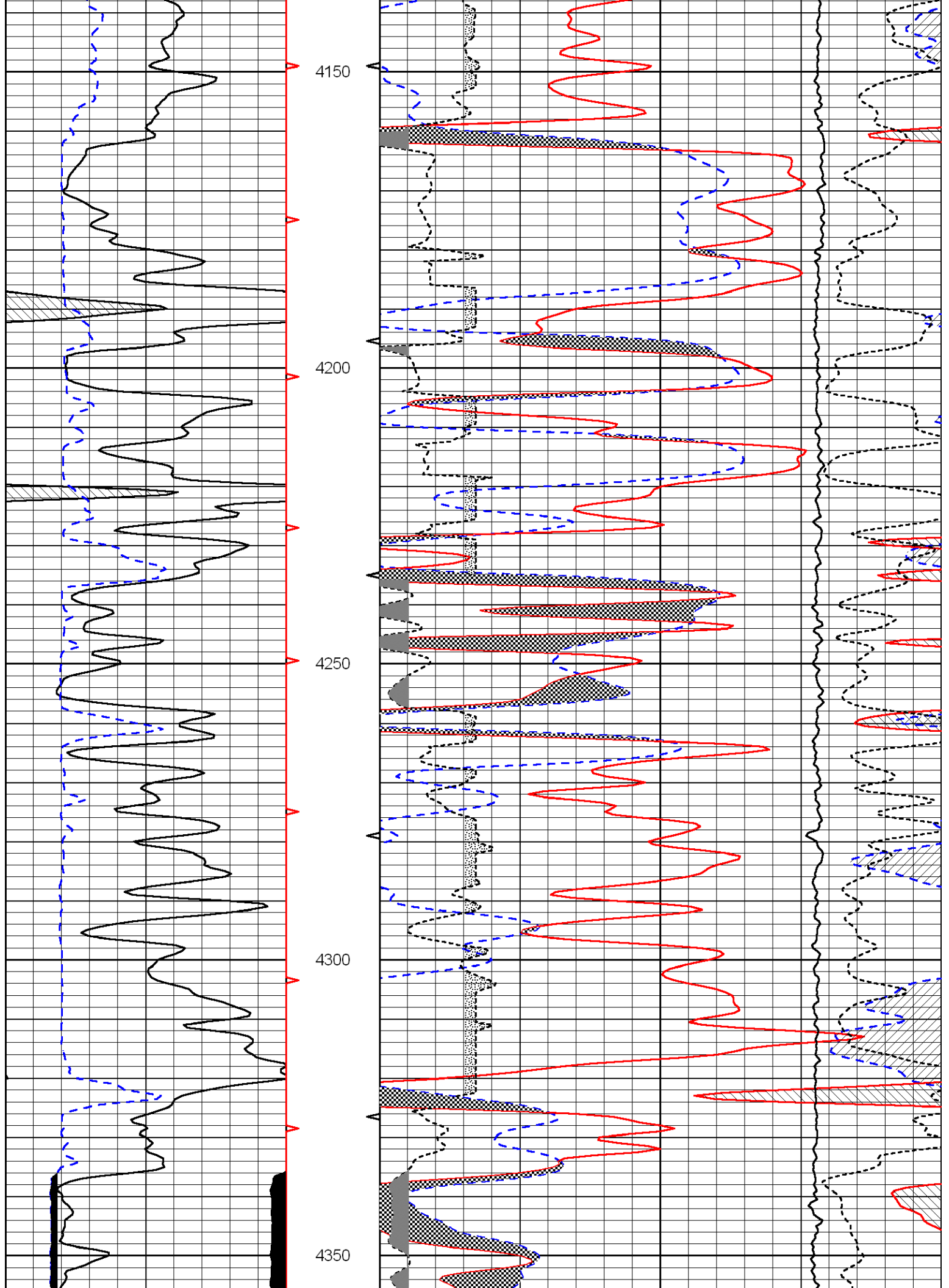


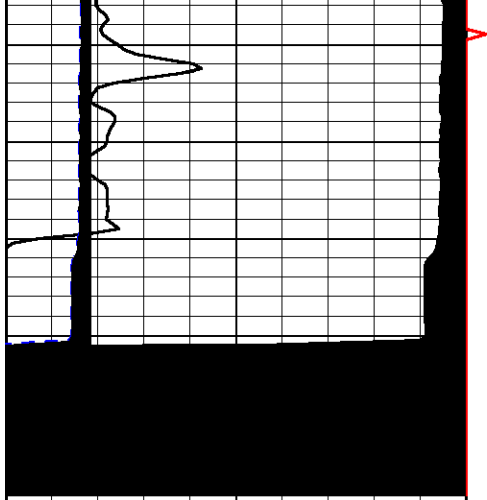




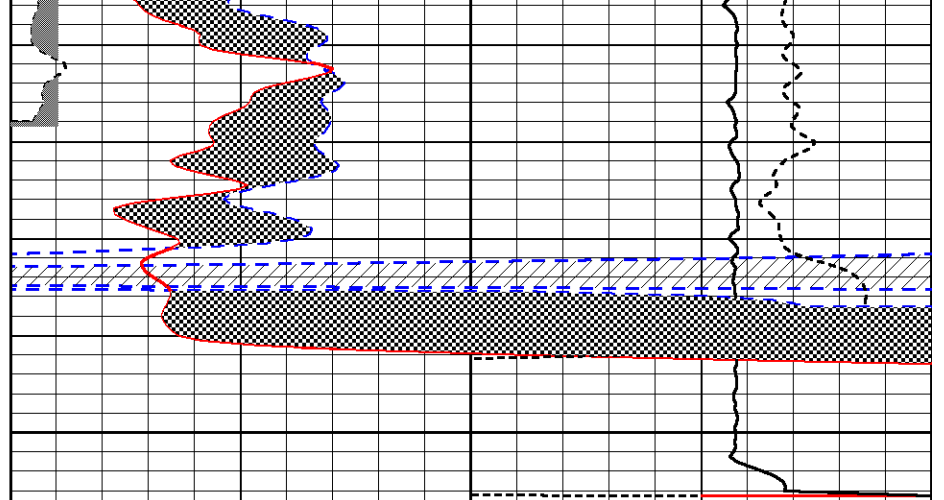








4400



0	Gamma Ray	150
6	Caliper (GAPI)	16

30	CNLS		-10
30	Compensated Density (2.71 ma)		-10
2.625	DGA	3.425	-0.25 Correction 0.25
10000	Line Tension		0



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.	15-145-21666-00-00	
Company	Credo Petroleum Corporation	
Well	Springer Trust #1-18	
Field	Wildcat	
County	Pawnee	State Kansas
Location	W2 E2 SE 1320' FSL / 990' FEL	
Sec: 18	Twp: 20S	Rge: 19W
Other Services	CNL / CDL	

Permanent Datum	Ground Level	Elevation 2208
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	K.B. 2213 D.F. 2208 G.L. 2208
Date	2/17/2012	
Run Number	One	
Depth Driller	4400	
Depth Logger	4401	
Bottom Logged Interval	4400	
Top Log Interval	200	
Casing Driller	8.625 @ 223	
Casing Logger	222	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	9200	
Density / Viscosity	9.5	77
pH / Fluid Loss	8.0	11.2
Source of Sample	Flowline	
Rm @ Meas. Temp	1.50 @	60
Rmf @ Meas. Temp	1.13 @	60
Rmc @ Meas. Temp	2.03 @	60
Source of Rmf / Rmc	Charts	
Rm @ BHT	0.75 @	120
Operating Rig Time	3 Hours	
Max Rec. Temp. F	120	
Equipment Number	15	
Location	Hays	
Recorded By	R. Barnhart	
Witnessed By	Bruce Ard	

<<< 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 Log-Tech, Inc.
 (785) 625-3858
 Rush Center, KS:
 S to Co. Line, S to X Rd,
 8W, 1/2S, W into

Database File: credohd.db
 Dataset Pathname: dil/cremain
 Presentation Format: dil2in
 Dataset Creation: Fri Feb 17 13:04:01 2012
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
-200	SP	0

0	Shallow Resistivity	50
0	Deep Resistivity	50

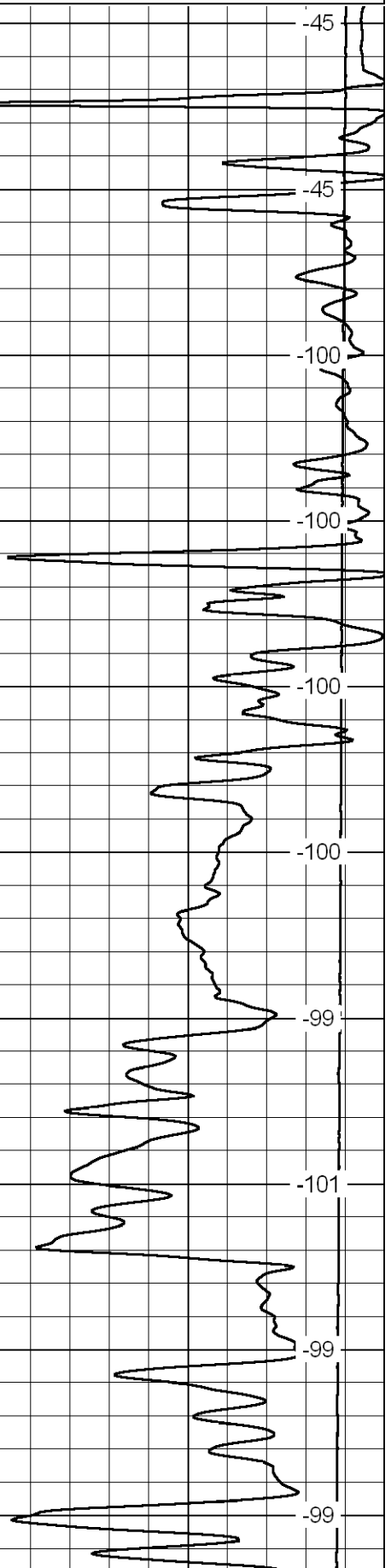
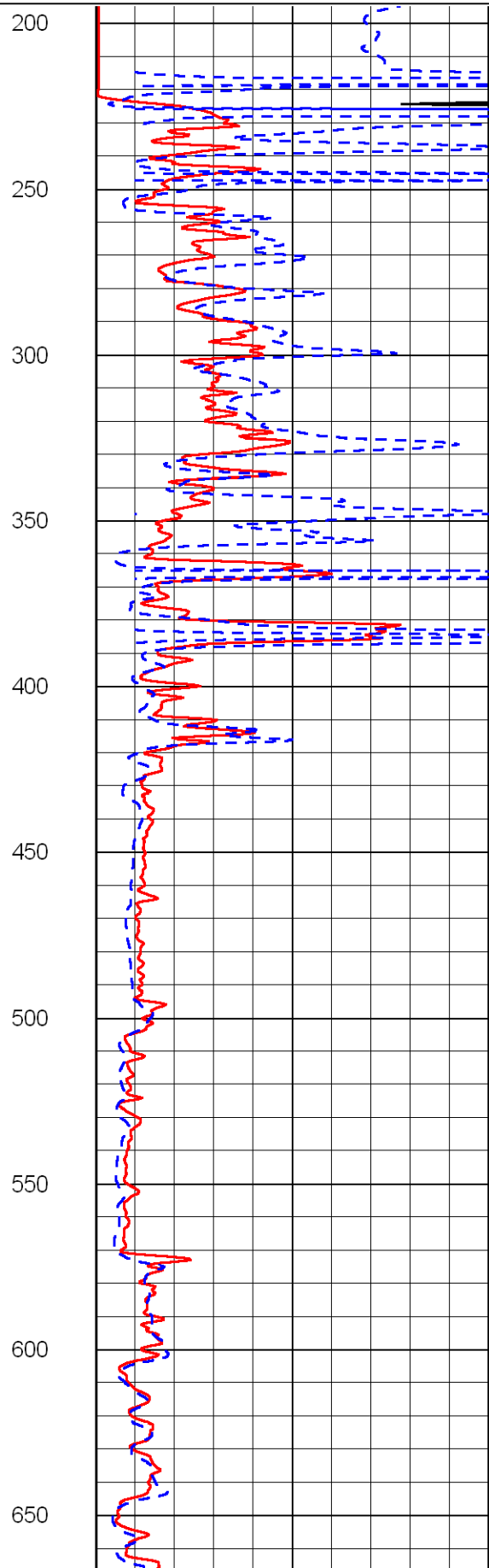
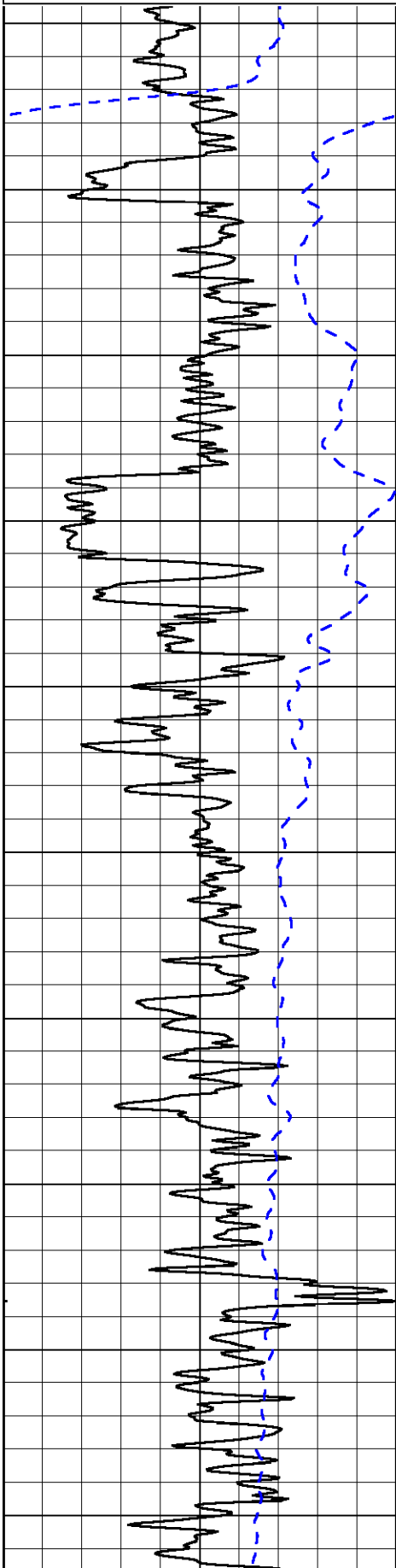
LSPD

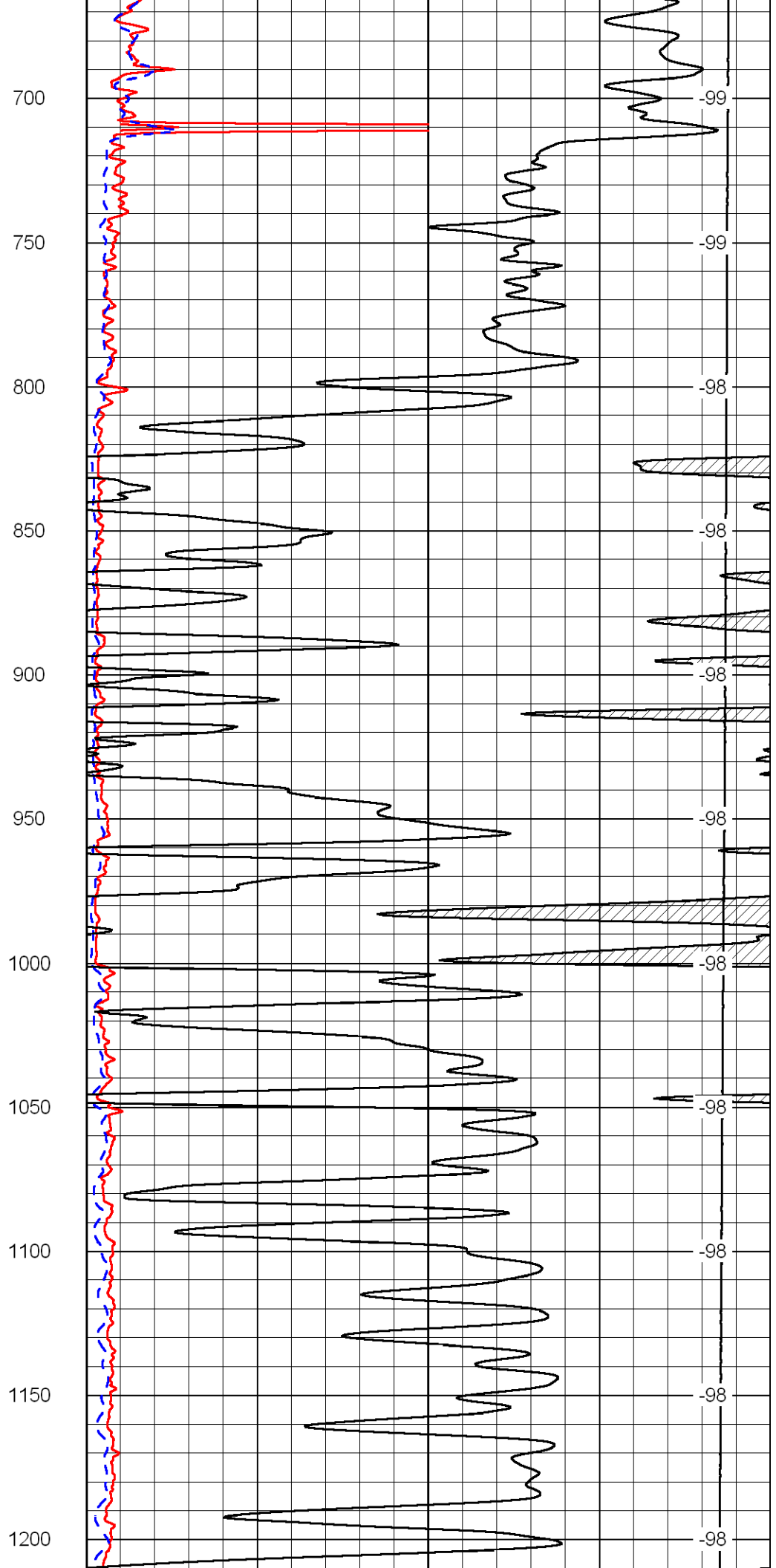
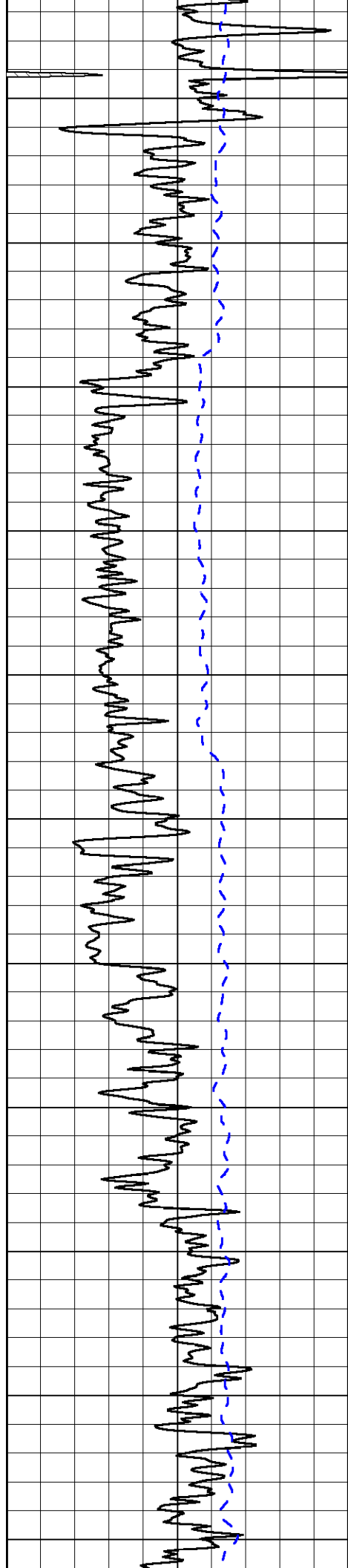
1000	Conductivity	0
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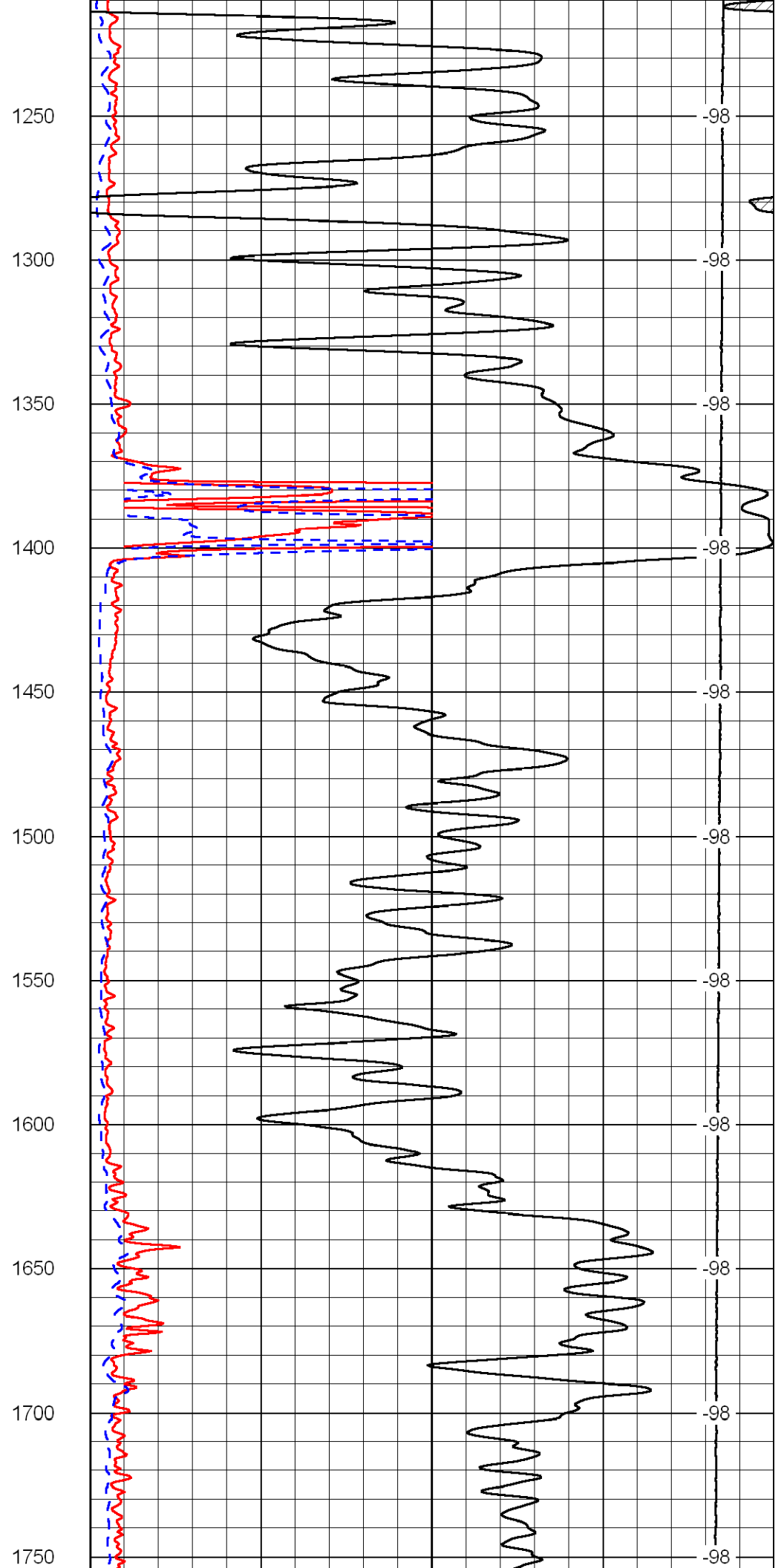
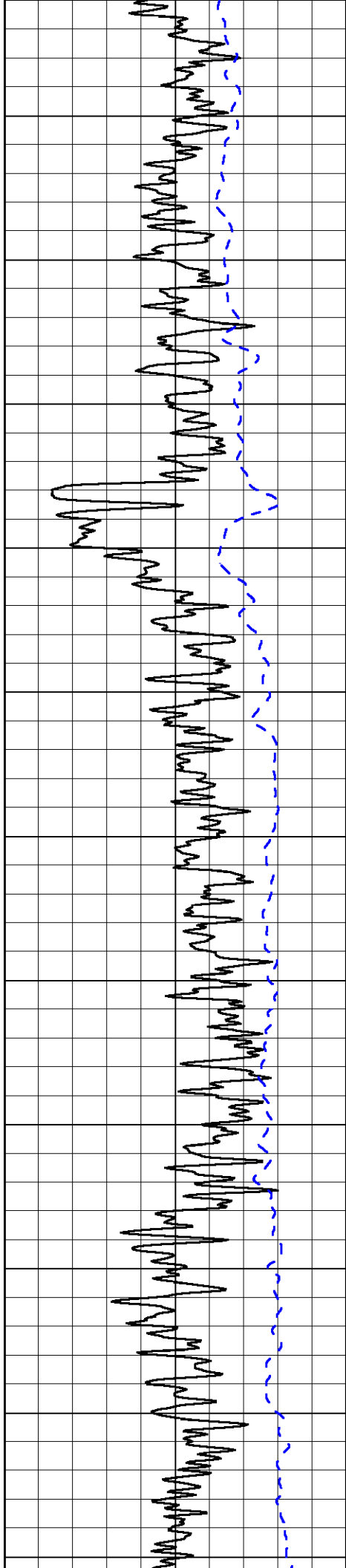
15000	Line Tension	0
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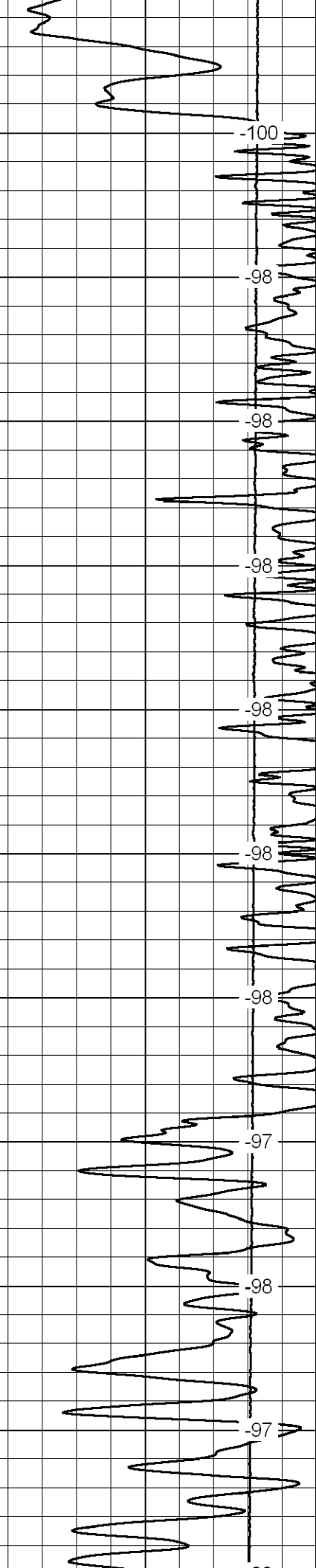
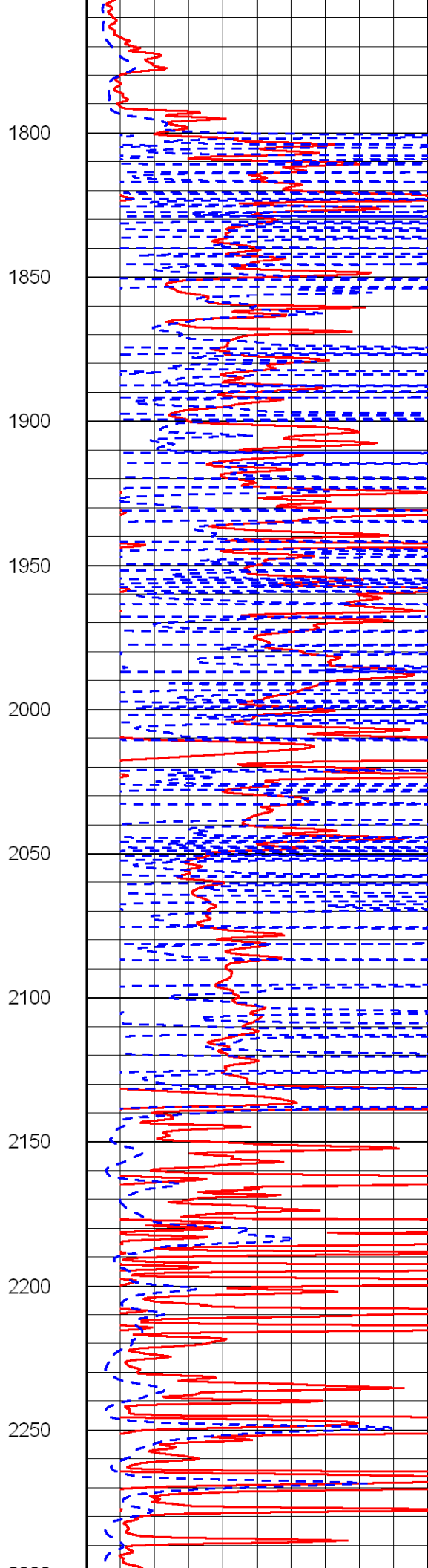
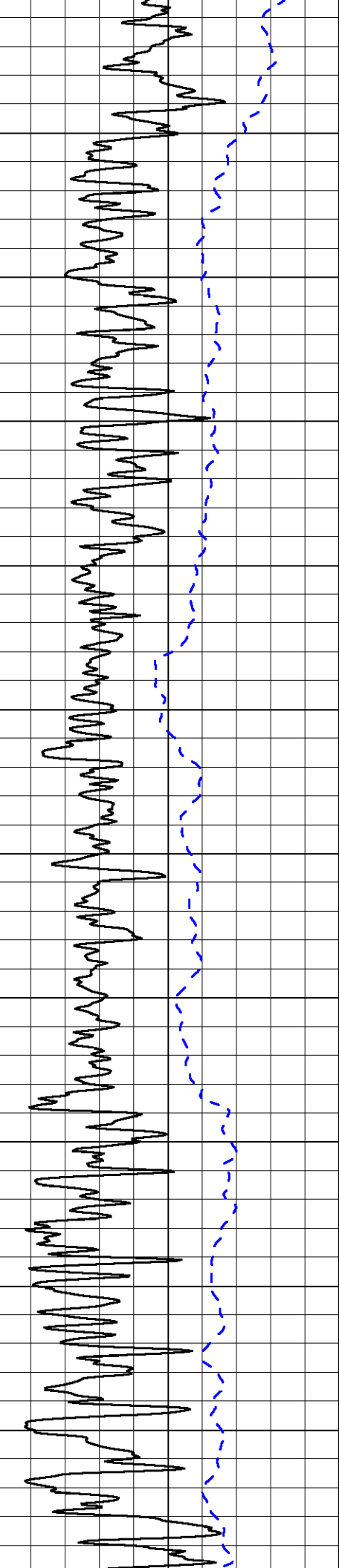
50	Shallow Resistivity	500
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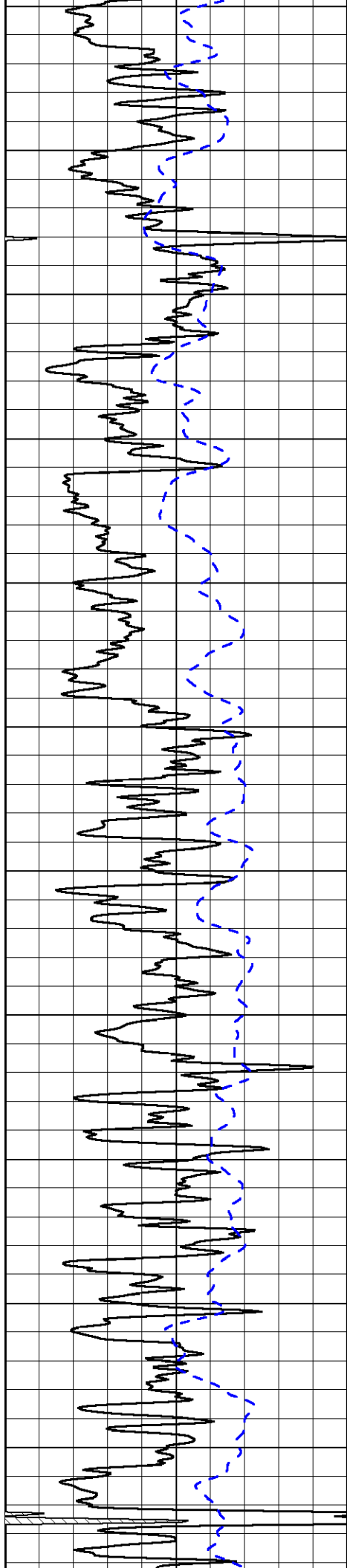
50	Deep Resistivity	500
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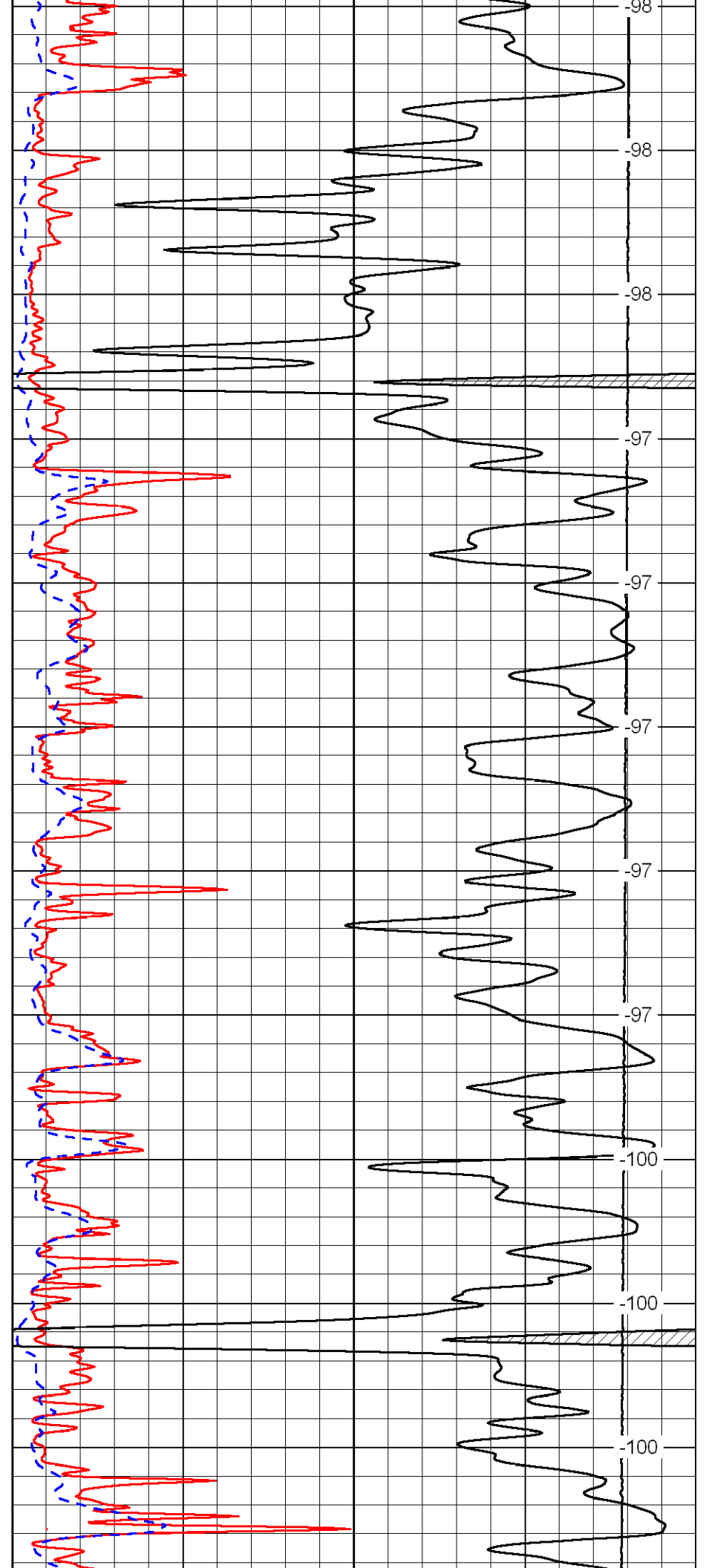




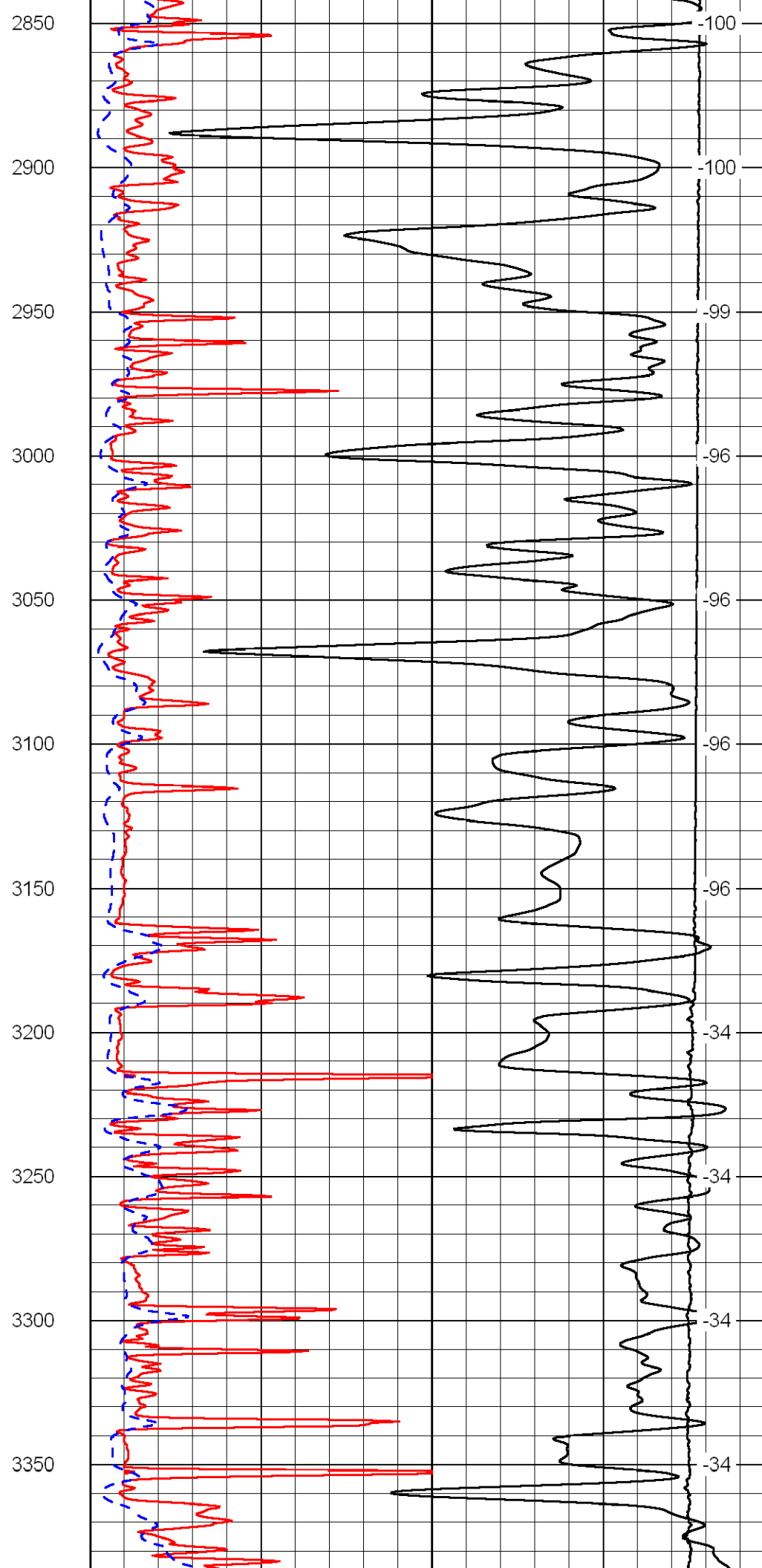
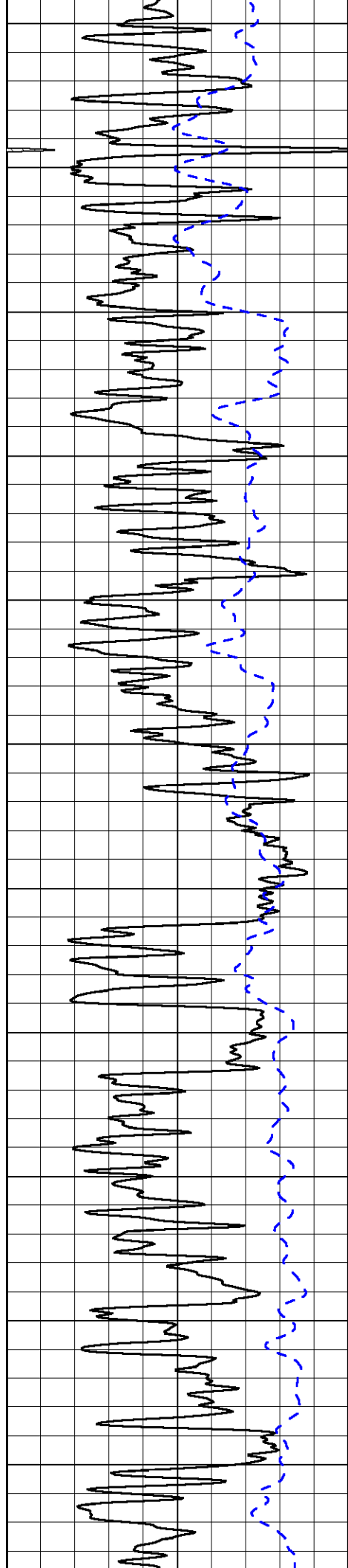


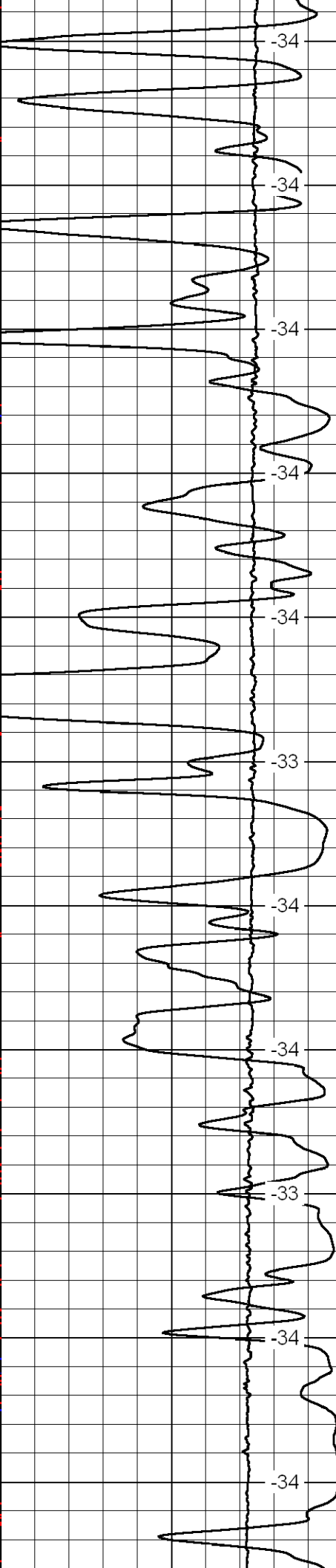
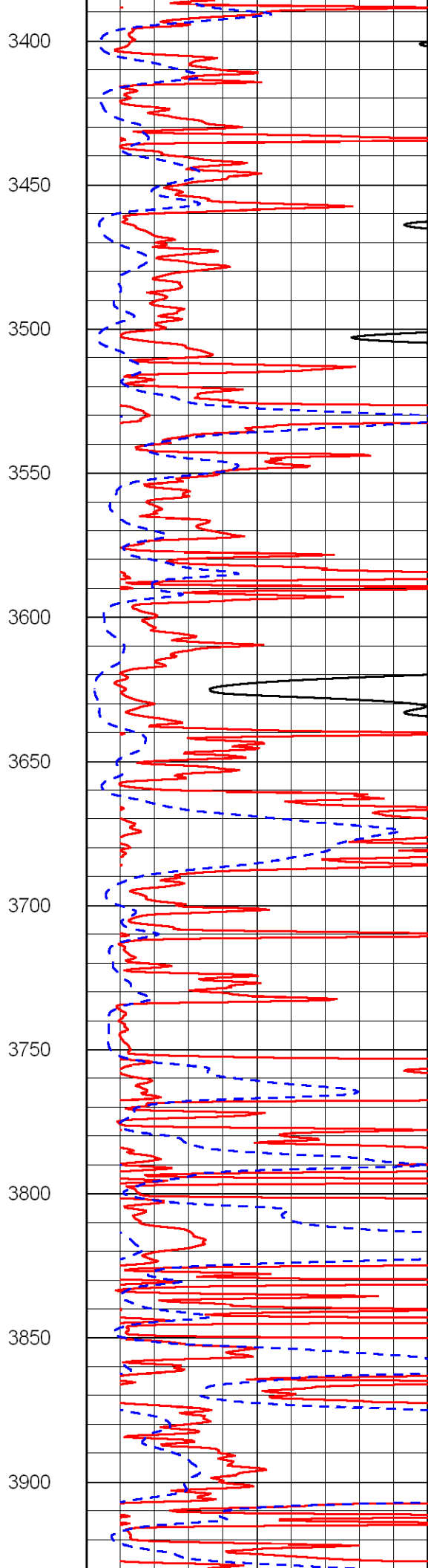
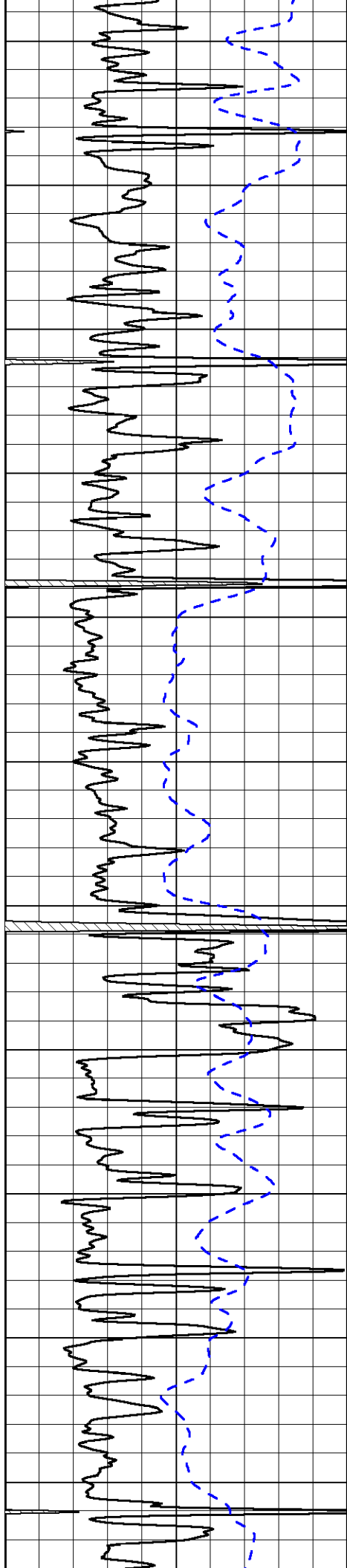


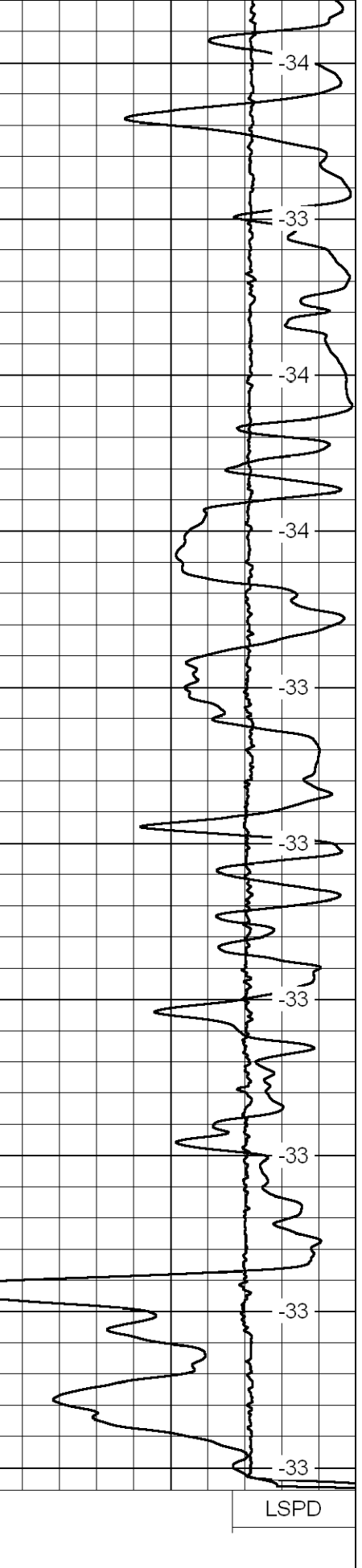
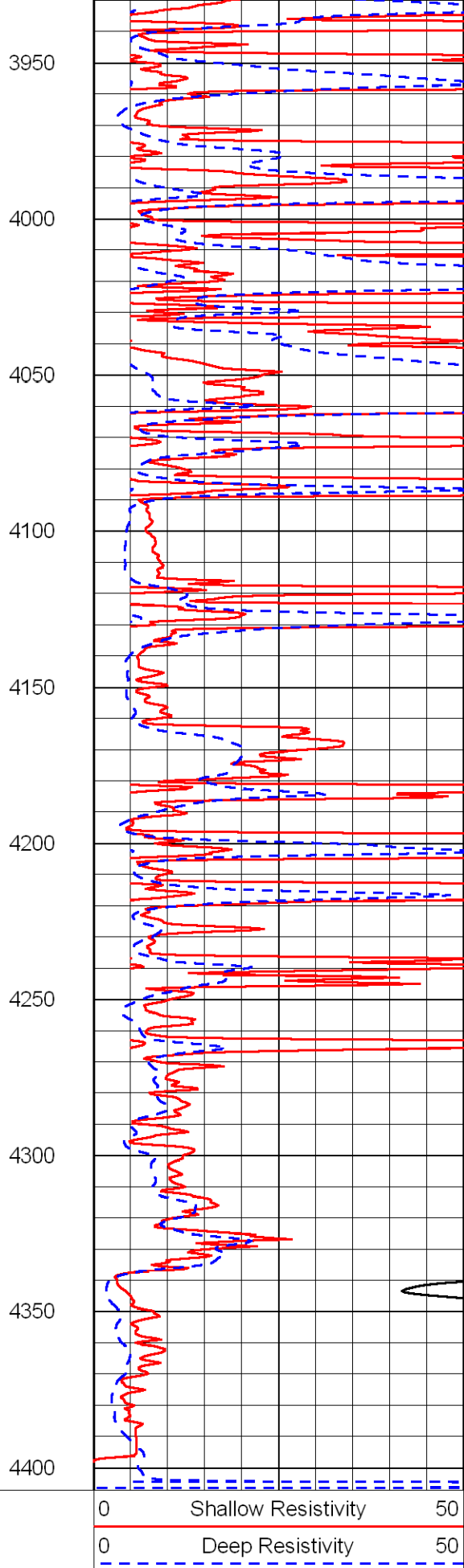
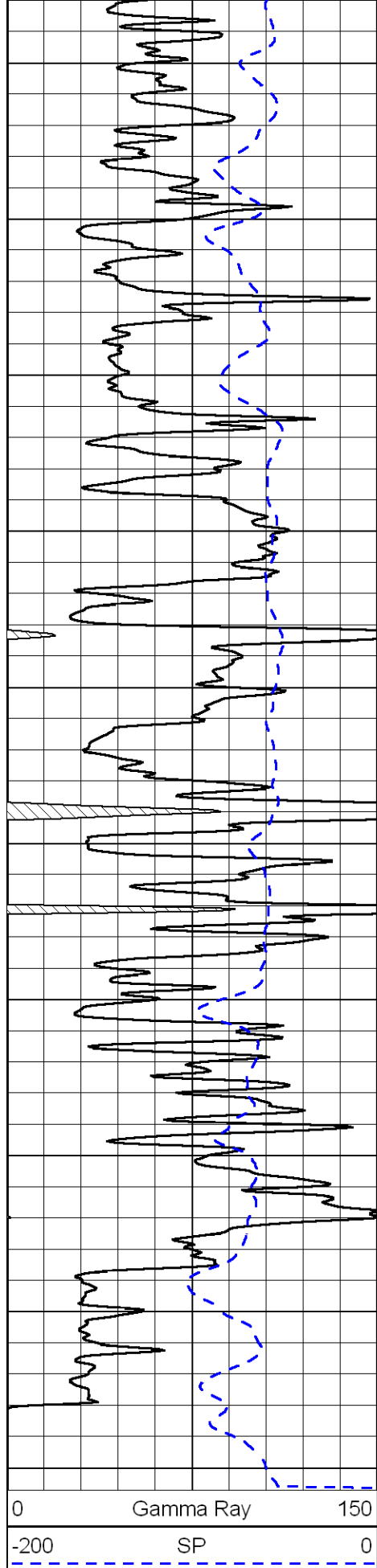
2300
2350
2400
2450
2500
2550
2600
2650
2700
2750
2800



-98
-98
-98
-97
-97
-97
-97
-97
-100
-100
-100







0 150

-200 0

0 50

0 50

1000 Conductivity 0

15000 Line Tension 0

50 Shallow Resistivity 500

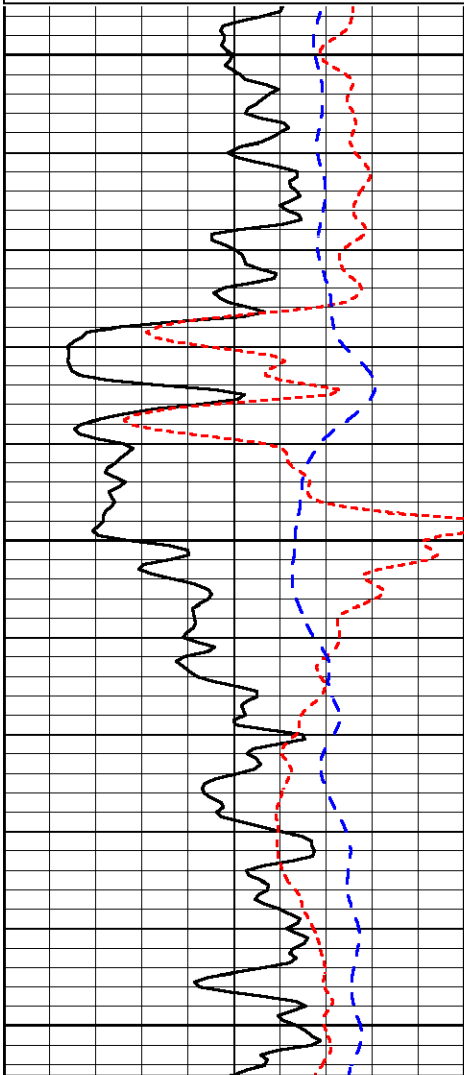
50 Deep Resistivity 500

Database File: credohd.db
 Dataset Pathname: dil/cremain
 Presentation Format: dil
 Dataset Creation: Fri Feb 17 13:04:01 2012
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

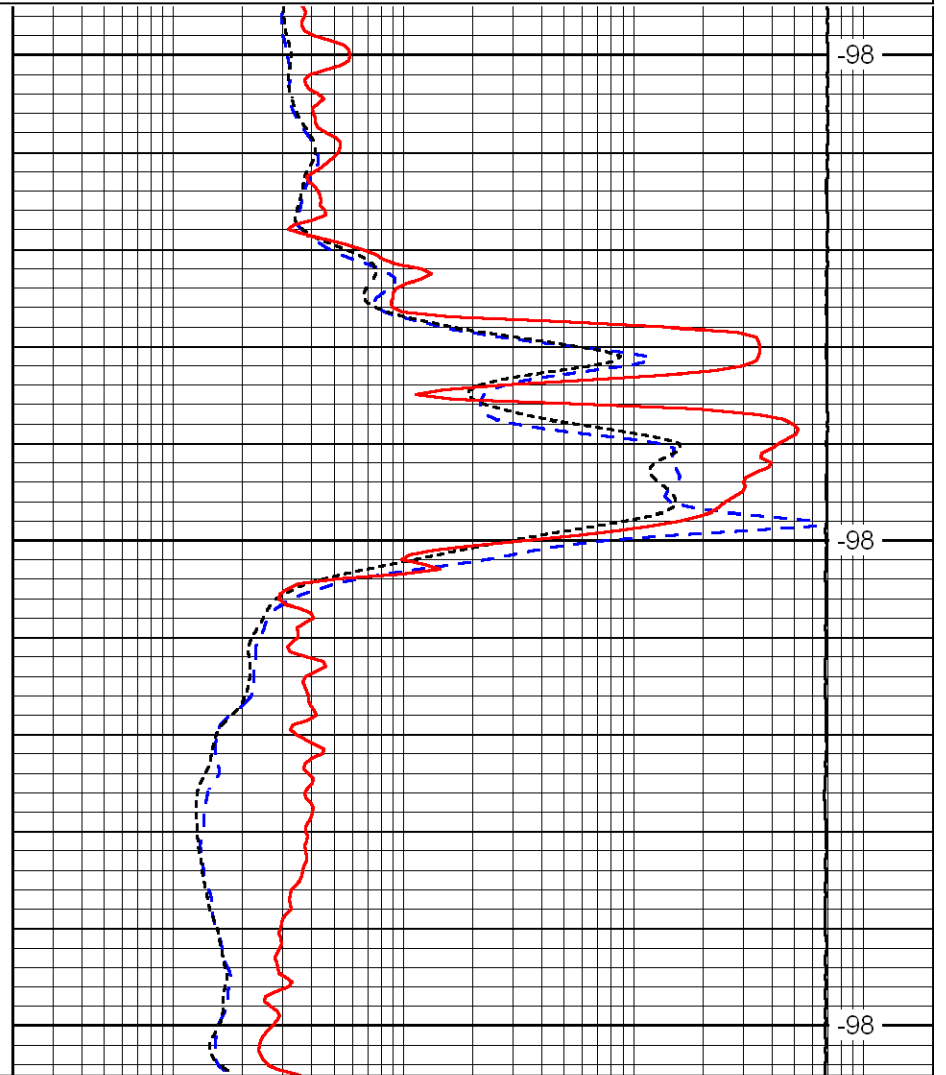


1350

1400

1450

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0



-98

-98

-98

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

Database File: credohd.db
 Dataset Pathname: dil/cremain
 Presentation Format: dil
 Dataset Creation: Fri Feb 17 13:04:01 2012
 Charted by: Depth in Feet scaled 1:240

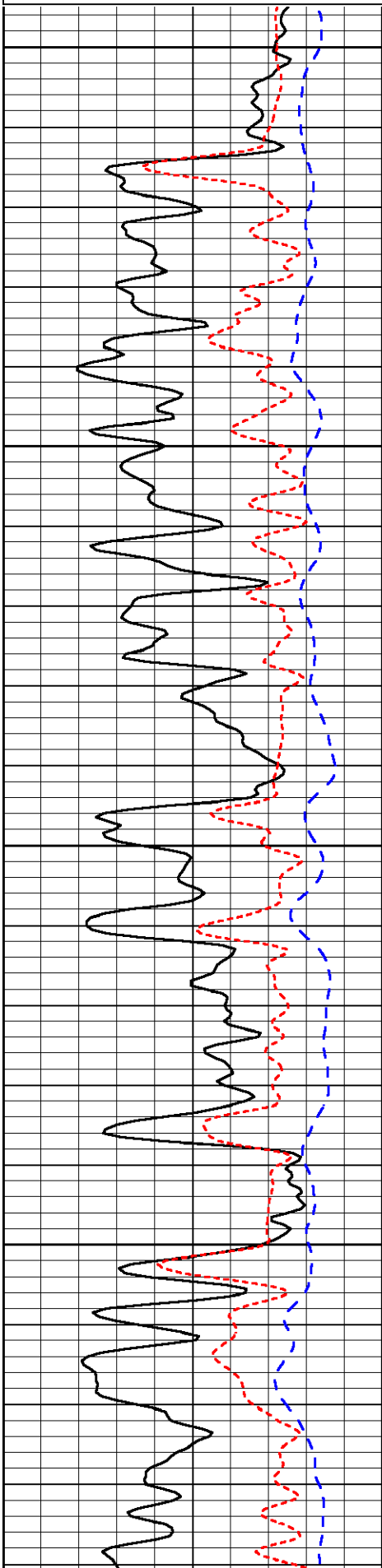
0	Gamma Ray	150
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0.2	Deep Resistivity	2000
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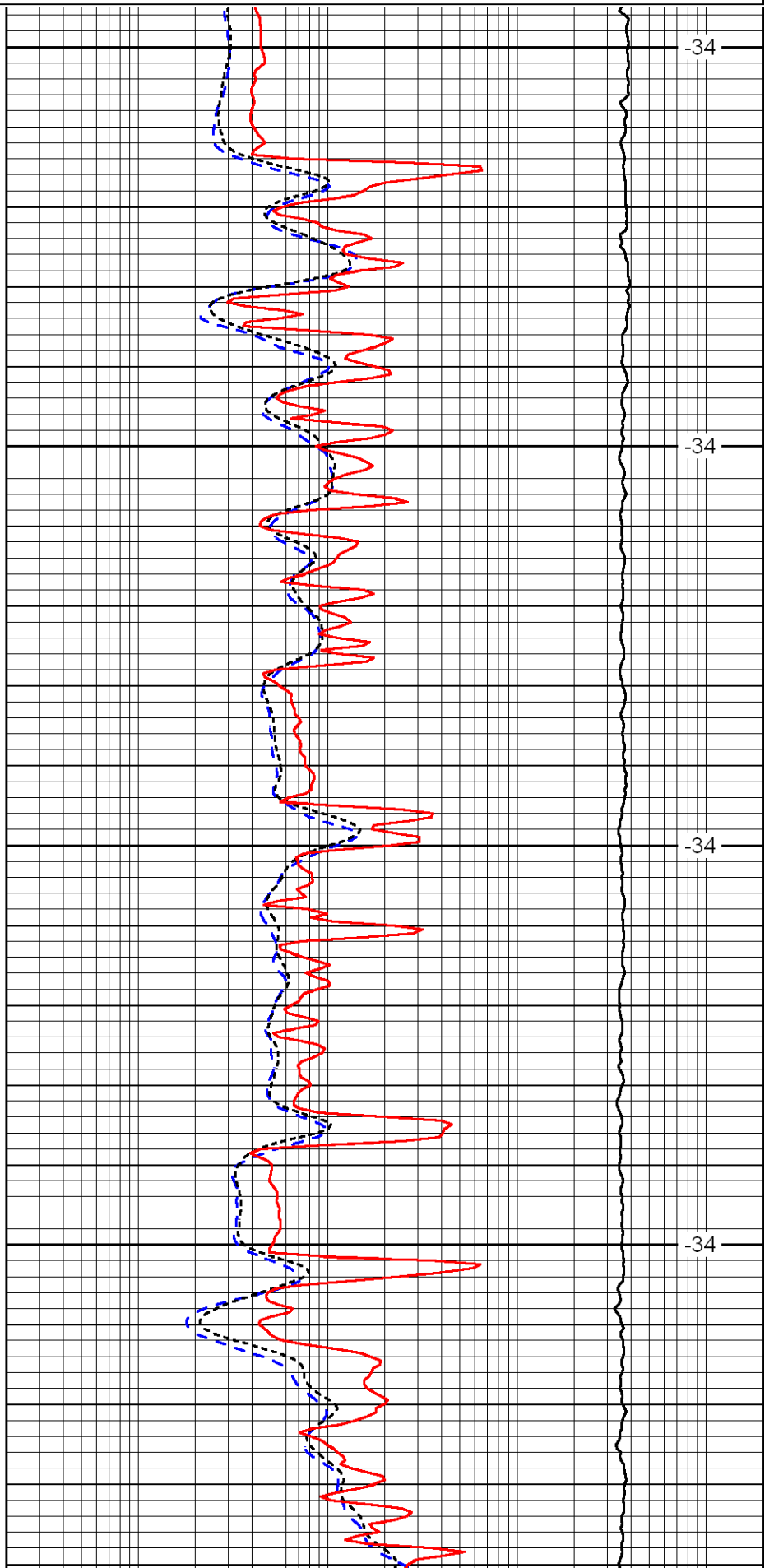
-160	RXO/RT	40
-200	SP	0

0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

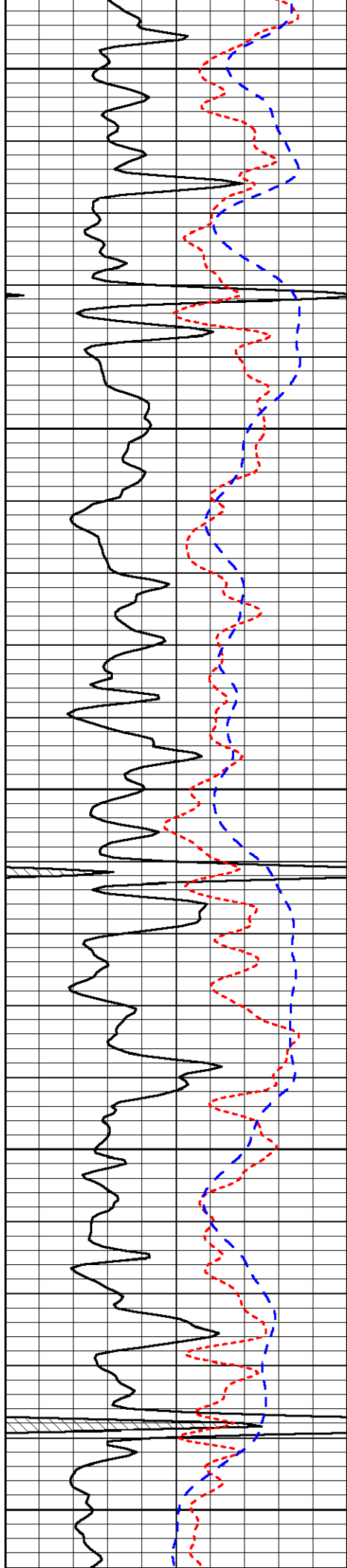
LSPD



3200
3250
3300
3350



-34
-34
-34
-34



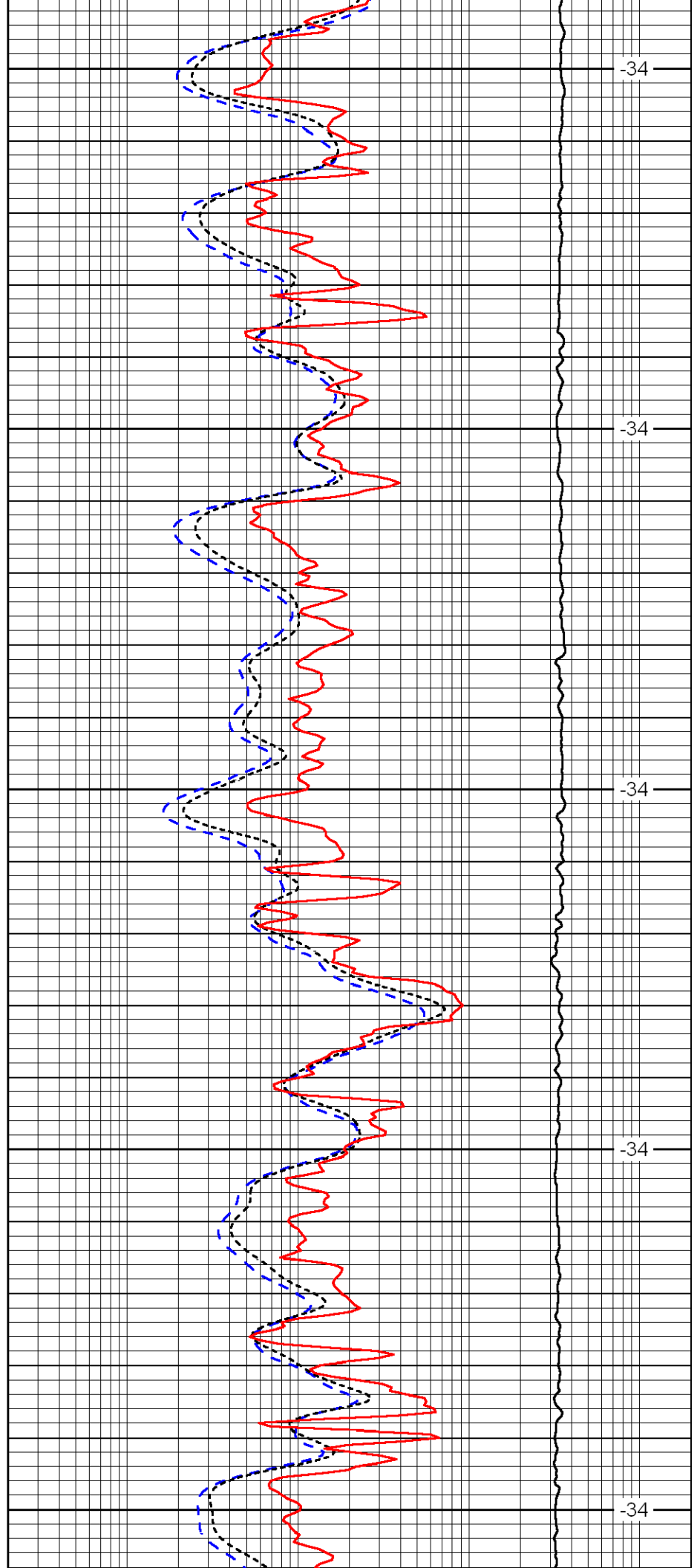
3400

3450

3500

3550

3600



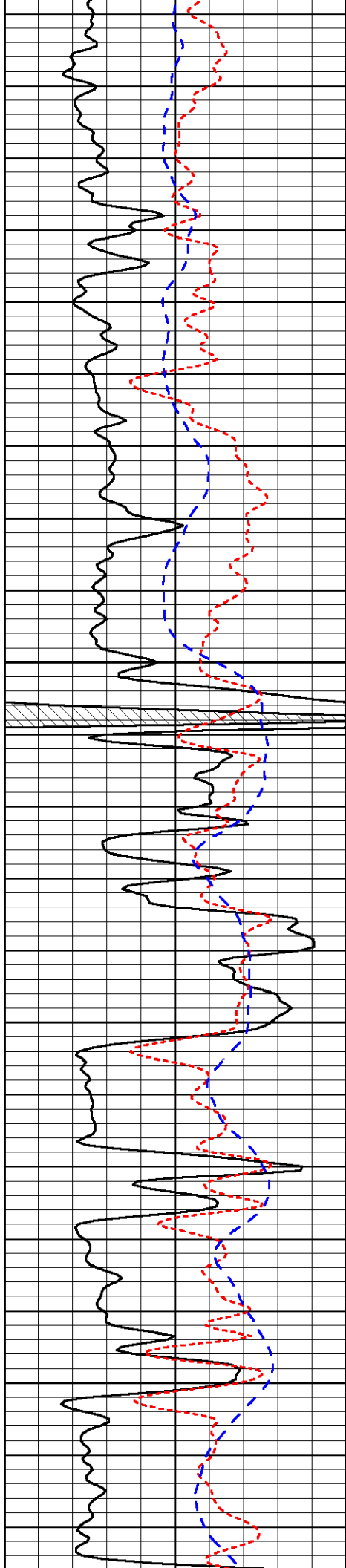
-34

-34

-34

-34

-34

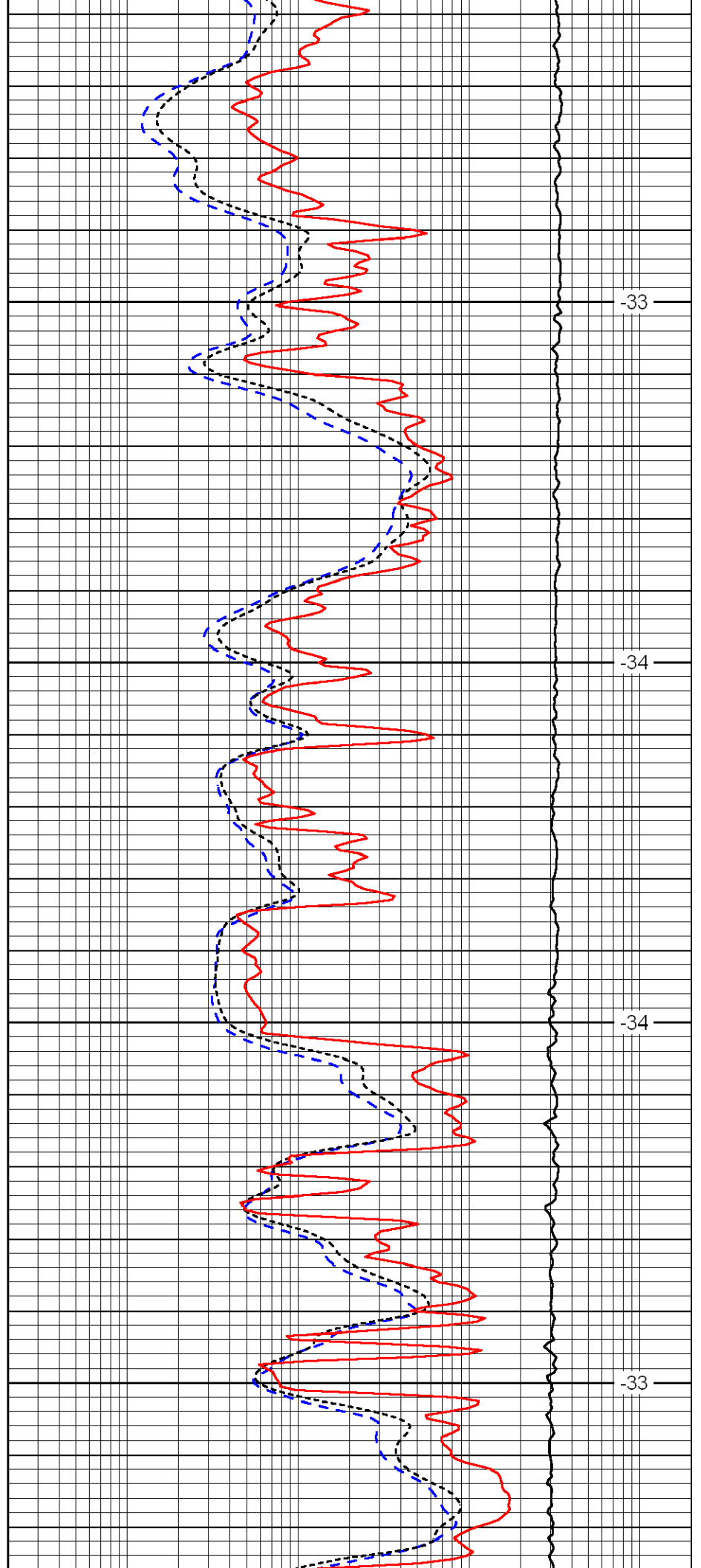


3650

3700

3750

3800

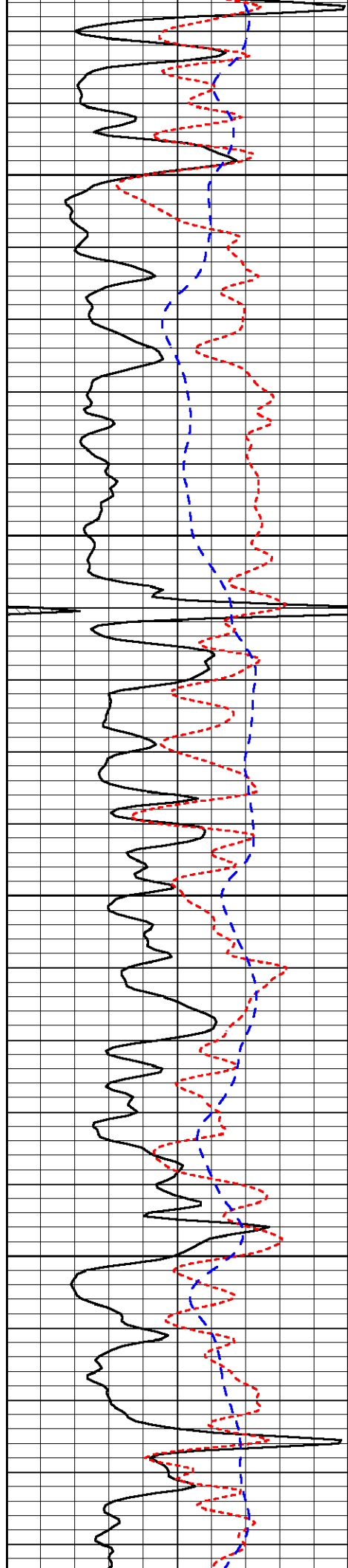


-33

-34

-34

-33

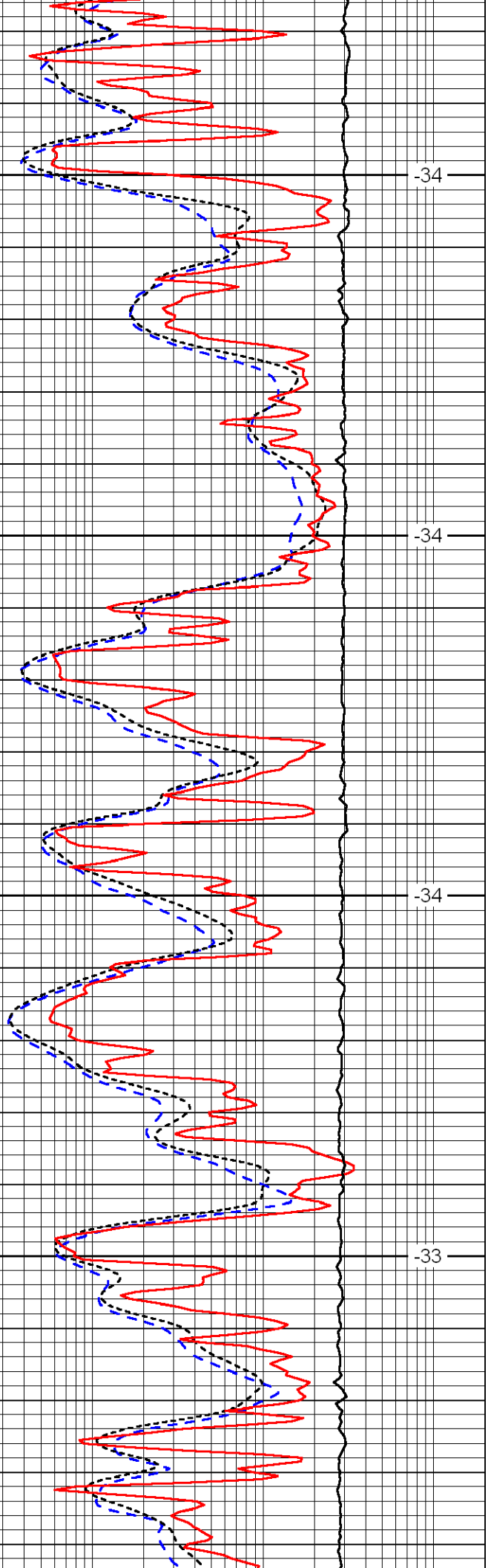


3850

3900

3950

4000

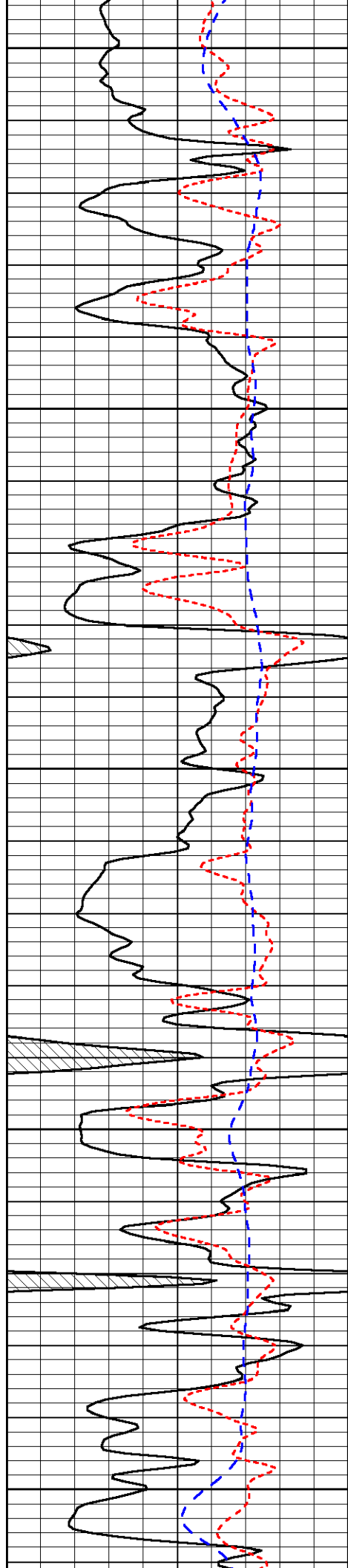


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-33



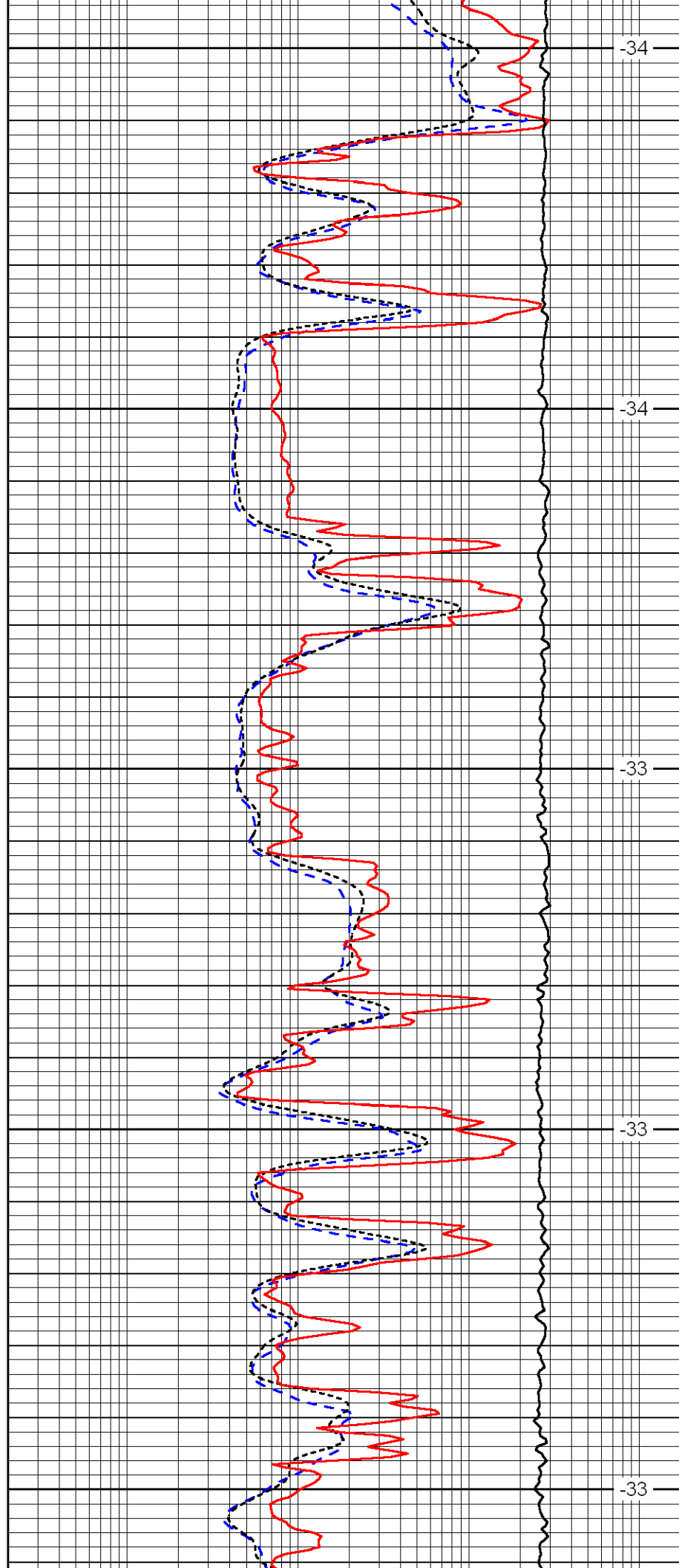
4050

4100

4150

4200

4250



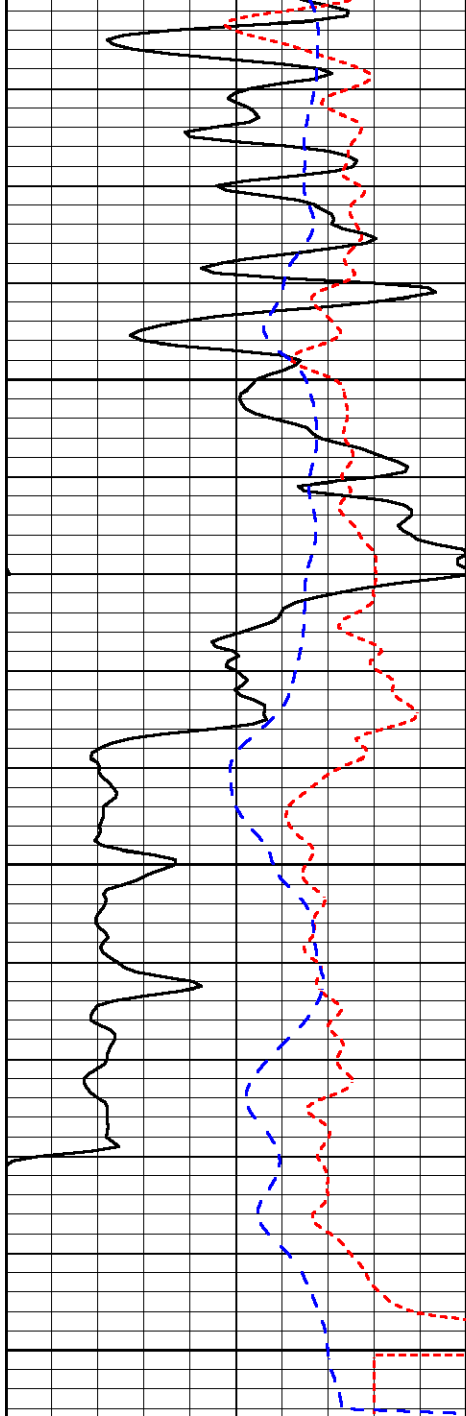
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-34

-33

-33

-33

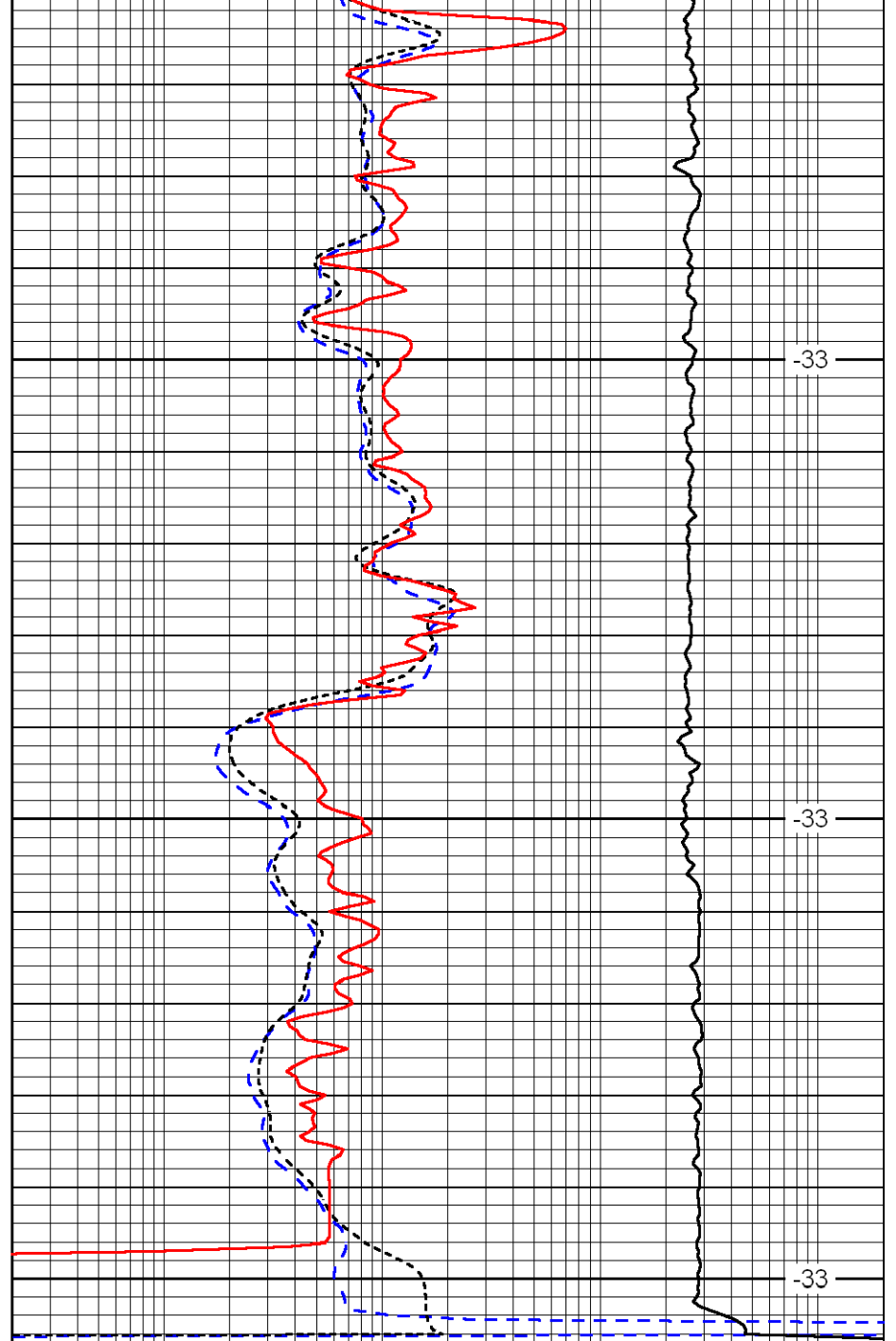


4300

4350

4400

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0



-33

-33

-33

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD