



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1195424
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: _____

1195424

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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Form	ACO1 - Well Completion
Operator	Becker Oil Corporation
Well Name	Gleason 2
Doc ID	1195424

Tops

Name	Top	Datum
Cedar Hills SS	898	(+1471)
Stone Corral Anhy.	1433	(+936)
Krider	2424	(-55)
Heebner	3877	(-1508)
Lansing	3969	(-1600)
Base Kansas City	4318	(-1949)
Marmaton	4327	(-1958)
Ft. Scott	4472	(-2103)
Cherokee Shale	4497	(-2128)
Base Penn. Ls.	4518	(-2149)

Form	ACO1 - Well Completion
Operator	Becker Oil Corporation
Well Name	Gleason 2
Doc ID	1195424

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
surface	12.25	8.625	24	332	Class A	200	2% gel, 3% cc
production	7.875	5.5	15.5	4575	ASC	150	5# KC/sx,
production	7.875	5.5	15.5	4375	ASC	150	.14% defoam,
production	7.875	5.5	15.5	4375	ASC	150	.35% FL-160

ALLIED OIL & GAS SERVICES, LLC 061045

Federal Tax I.D. # 20-3651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Mt Bend K.

DATE: <u>2-11-13</u>	SEC. <u>32</u>	TWP. <u>23</u>	RANGE <u>21</u>	CALLED OUT <u>12:00 PM</u>	ON LOCATION <u>4:00 PM</u>	JOB START <u>6:00 PM</u>	JOB FINISH <u>7:00 PM</u>
LEASE <u>Gleason</u>	WELL # <u>2</u>		LOCATION <u>Houston S in D.E 4 E.</u>		COUNTY <u>Harris</u>	STATE <u>K</u>	
OLD OR <u>NEW</u> (Circle one)			<u>1 S. 1/2 W. N1 S</u>				

CONTRACTOR Perdell OWNER Same

TYPE OF JOB Production

HOLE SIZE <u>7 7/8</u>	T.D. <u>4575'</u>	CEMENT
CASING SIZE <u>5 1/2</u>	DEPTH <u>4577'</u>	AMOUNT ORDERED <u>50 lb Asc. 10% Salt, 2%</u>
TUBING SIZE	DEPTH	<u>1/2 Gal. 6% Hesperal, 14% Reframer, 35%</u>
DRILL PIPE	DEPTH	<u>FL-1100, 5" K-1100, 500 gal DV-1100</u>
TOOL	DEPTH	
PRES. MAX <u>1700 #</u>	MINIMUM	COMMON <u>30 @ 17.90 537.00</u>
MEAS. LINE	SHOE JOINT <u>14'</u>	POZMIX <u>20 @ 9.35 187.00</u>
CEMENT LEFT IN CSG. <u>14'</u>		GEL <u>2 @ 23.40 46.80</u>
PERFS.		CHLORIDE @
DISPLACEMENT <u>108.8</u>		ASC <u>150 @ 20.90 3135.00</u>

EQUIPMENT		
PUMP TRUCK # <u>366</u>	CEMENTER <u>Wayne Damm</u>	<u>Kal Seal 750 @ 9.80 735.00</u>
BULK TRUCK # <u>571-112</u>	HELPER <u>Kevin Gady</u>	<u>FL-160 45 @ 18.90 850.50</u>
BULK TRUCK #	DRIVER <u>Andy Fimple</u>	<u>OF 19 @ 9.80 186.20</u>
BULK TRUCK #	DRIVER	<u>DV-1100 500 @ 11.27 635.00</u>
		HANDLING <u>246.28 @ 2.48 610.71</u>
		MILEAGE <u>10.63 x 25 x 2.60 691.98</u>
		TOTAL <u>7614.35</u>

REMARKS:
Ran 4577' of 5 1/2" cas. Bore circulation
Pumped 500 gal H₂O based DV-1100 500 gal
H₂O. Mixed 150 gal Asc. Washed line
clean. Released plug. Displaced with
H₂O. based plug at 1700 # Released
and float held
Plugged hole 2 3/4" @ 6740 450 gal
manhole 2 3/4" @ 6740 450 gal

CHARGE TO: Recher Oil
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE	
DEPTH OF JOB <u>4577'</u>	
PUMP TRUCK CHARGE	<u>2558.15</u>
EXTRA FOOTAGE	@
MILEAGE <u>Hum 25</u>	@ 7.70 <u>192.50</u>
MANIFOLD <u>Lvm 25</u>	@ 4.40 <u>110.00</u>
<u>Head Rent</u>	@ 275.00 <u>275.00</u>
<u>High Connection</u>	@ 600.00 <u>600.00</u>
	TOTAL <u>3736.25</u>

PLUG & FLOAT EQUIPMENT	
<u>5 1/2" - 1" Basket</u>	<u>159.40 159.40</u>
<u>Excess Plug</u>	@ 339.30 <u>339.30</u>
<u>Latex Plug</u>	@ 398.75 <u>398.75</u>
<u>4- Centralizer</u>	@ 28.40 <u>113.60</u>
<u>9- Turbo Centralizer</u>	@ 48.30 <u>434.70</u>
<u>Portellan</u>	@ 490.40 <u>490.40</u>
	TOTAL <u>6350.15</u>

To: Allied Oil & Gas Services, 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 Doug Brown
SIGNATURE X Doug Brown

SALES TAX (If Any) _____
TOTAL CHARGES 17,700.75
2,951.10
DISCOUNT _____ IF PAID IN 30 DAYS
14,749.60

ALLIED OIL & GAS SERVICES, LLC 061040

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Hoot Bend K

DATE <u>12-3-13</u>	SEC. <u>32</u>	TWP. <u>23</u>	RANGE <u>21</u>	CALLED OUT _____	ON LOCATION <u>2:00 AM</u>	JOB START <u>2:40 AM</u>	JOB FINISH <u>3:30 AM</u>
LEASE <u>Reason</u>		WELL # <u>2</u>		LOCATION <u>Hoot Bend Sta D.E. 3 E, 1 S,</u>		COUNTY <u>Hodgeman</u>	STATE <u>Ks</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<u>3/4w, N/into</u>			

CONTRACTOR Parbrell 1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 335

CASING SIZE 8 5/8 DEPTH 332

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15

PERFS. _____

DISPLACEMENT 20

OWNER Same

CEMENT AMOUNT ORDERED 200 cc Class A

3% cc 2% gel

EQUIPMENT

PUMP TRUCK CEMENTER Kevin Dehman

316 HELPER Kevin Weinfurter

BULK TRUCK

871-112 DRIVER Marilyn Spangenberg

BULK TRUCK

_____ DRIVER _____

COMMON	<u>200</u>	@	<u>17.90</u>	<u>3,580.00</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>23.40</u>	<u>93.60</u>
CHLORIDE	<u>564</u>	@	<u>.80</u>	<u>451.20</u>
ASC		@		
HANDLING	<u>216.66</u>	@	<u>2.48</u>	<u>537.81</u>
MILEAGE	<u>9.88 x 25 x</u>		<u>2.60</u>	<u>642.30</u>
				TOTAL <u>5,304.81</u>

REMARKS:
Rent 332 1 of 8 5/8 in. Batch Circulation.
Pumped 5 hole H₂O. Mixed 200 cc class A
3% cc, 2% gel. Deployed with H₂O.

Cement Aid Circulate

1 truck

CHARGE TO: Becher Oil Corp

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>332'</u>	
PUMP TRUCK CHARGE	<u>1512.35</u>
EXTRA FOOTAGE	@ _____
MILEAGE <u>Hum 25</u>	@ <u>7.70</u> <u>192.50</u>
MANIFOLD	@ _____
<u>Hum 25</u>	@ <u>4.40</u> <u>110.00</u>
TOTAL <u>1,814.75</u>	

PLUG & FLOAT EQUIPMENT

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
TOTAL _____	

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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 Mike Kern

SIGNATURE X Mike Kern

SALES TAX (if Any) _____

TOTAL CHARGES	<u>7,119.06</u>
DISCOUNT	<u>1,850.95</u>
IF PAID IN 30 DAYS	
<u>5,268.10</u>	



Pioneer Energy Services

Dual Induction Log

15-083-21899-00-00

API No.

Company **Becker Oil Corporation**

Well **Gleason #2**

Field **Saw Log Creek**

County **Hodgeman State Kansas**

Location

1000' FSL & 335' FWL

Other Services
CNL/CDL

Sec: **32**

Twp: **23S**

Rge: **21W**

Elevation

Permanent Datum **Ground Level**

Kelly Bushing

Elevation 2359

Log Measured From **Kelly Bushing**

10 Ft. Above Perm. Datum

Drilling Measured **Frontkelly Bushing**

**K.B. 2369
D.F. 2359
G.L. 2359**

Date **12/10/2013**

Run Number **One**

Depth Driller **4575**

Depth Logger **4573**

Bottom Logged Interval **4572**

Top Log Interval **300**

Casing Driller **8.625 @ 332**

Casing Logger **329**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **6500**

Density / Viscosity **8.8 64**

pH / Fluid Loss **8.5 12.8**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.44 @ 58**

Rmf @ Meas. Temp **0.33 @ 58**

Rmc @ Meas. Temp **0.59 @ 58**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.21 @ 124**

Operating Rig Time **3 Hours**

Max Rec. Temp. F **124**

Equipment Number **91**

Location **Hays**

Recorded By **D. Schmidt**

Witnessed By **Clyde Becker**

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

Comments

Thank you for using Pioneer Energy Services

☐☐ 785.625.3858

Burdette,
4 West to 234 RD,
South to G RD, 2 3/4 West,
North Into

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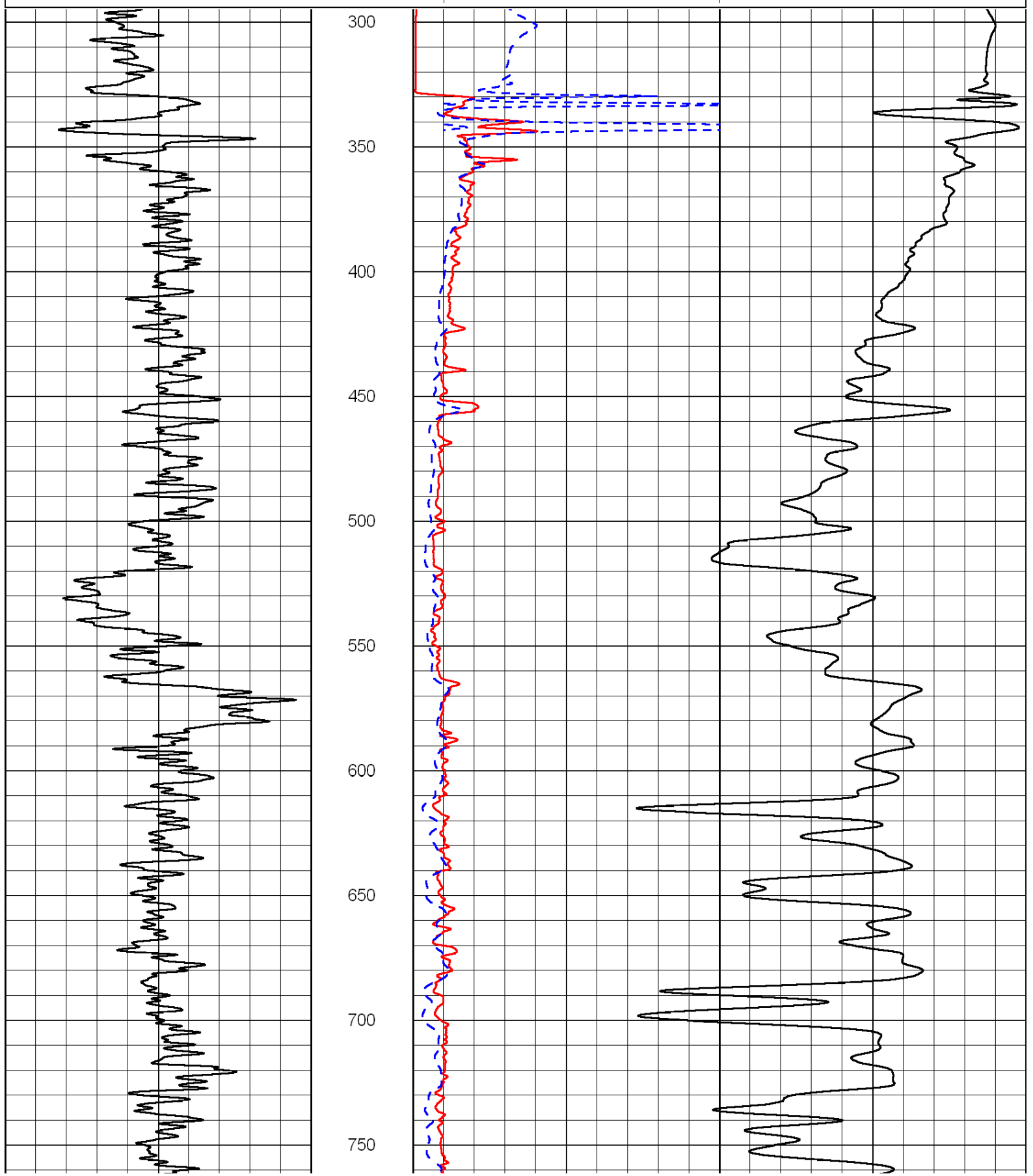
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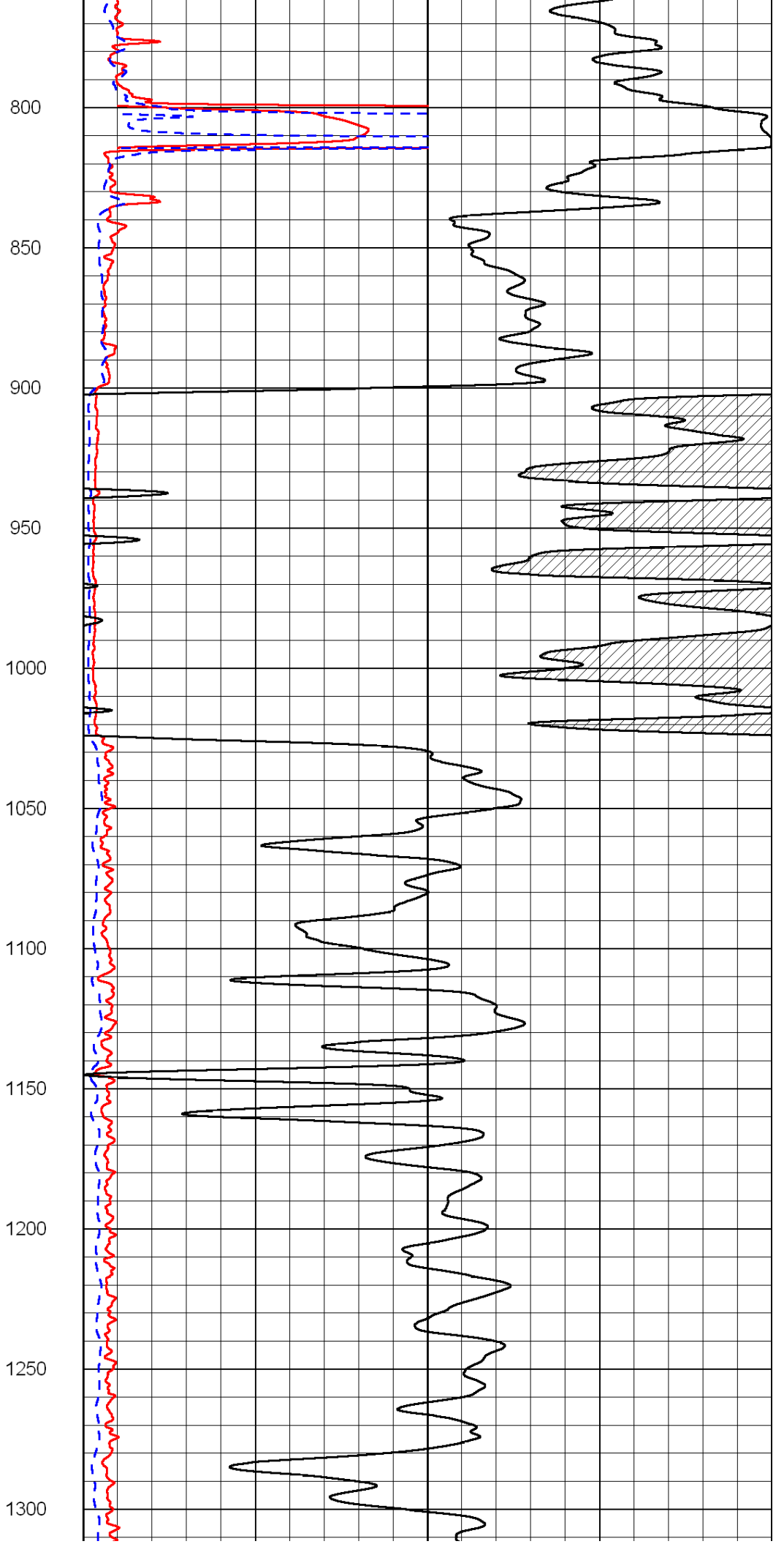
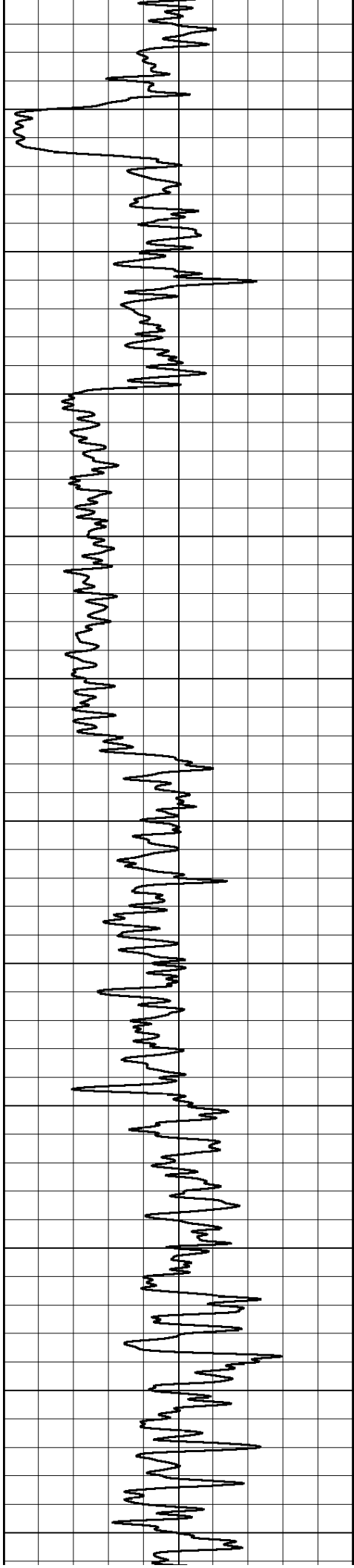
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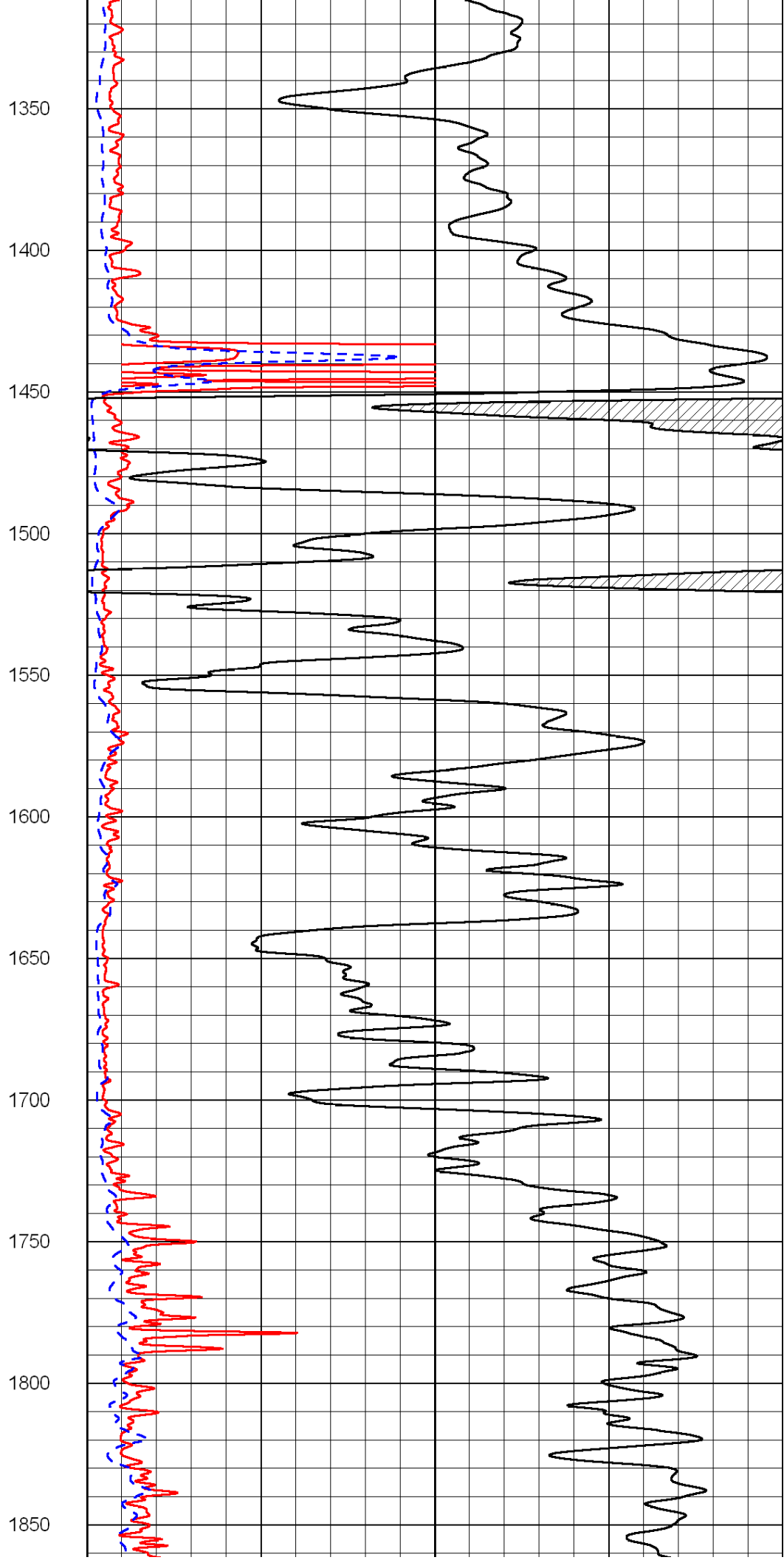
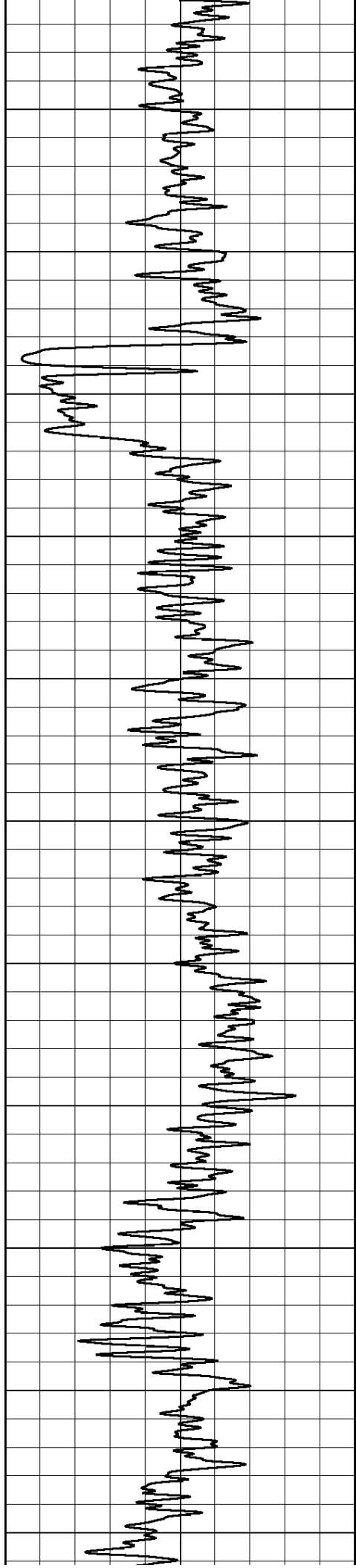
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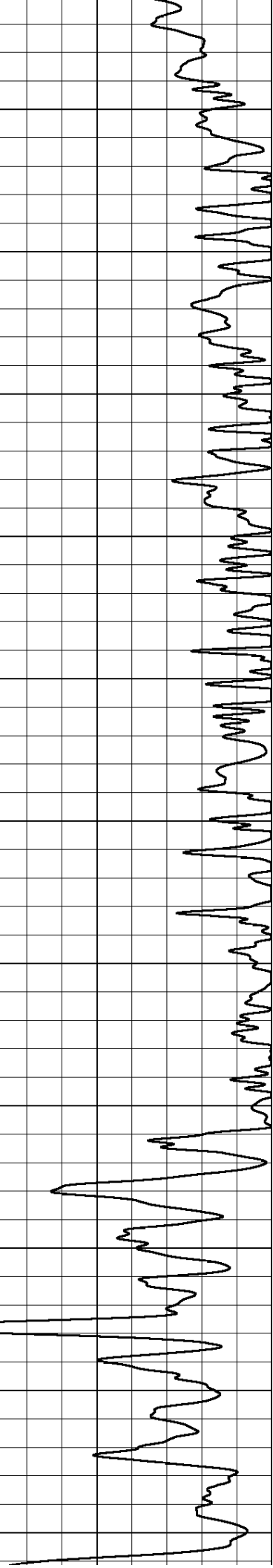
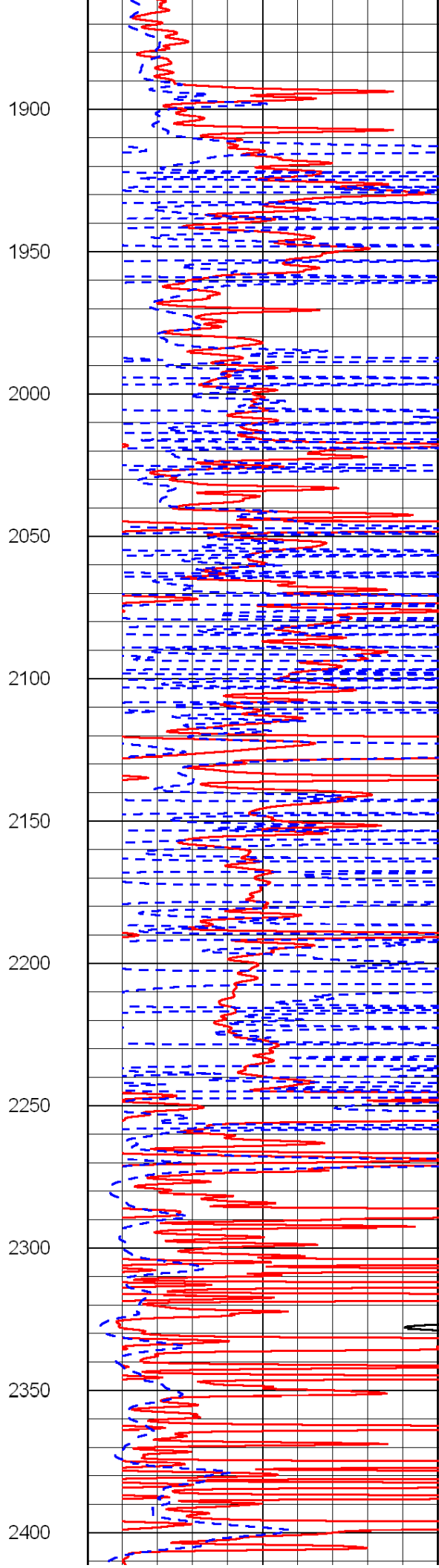
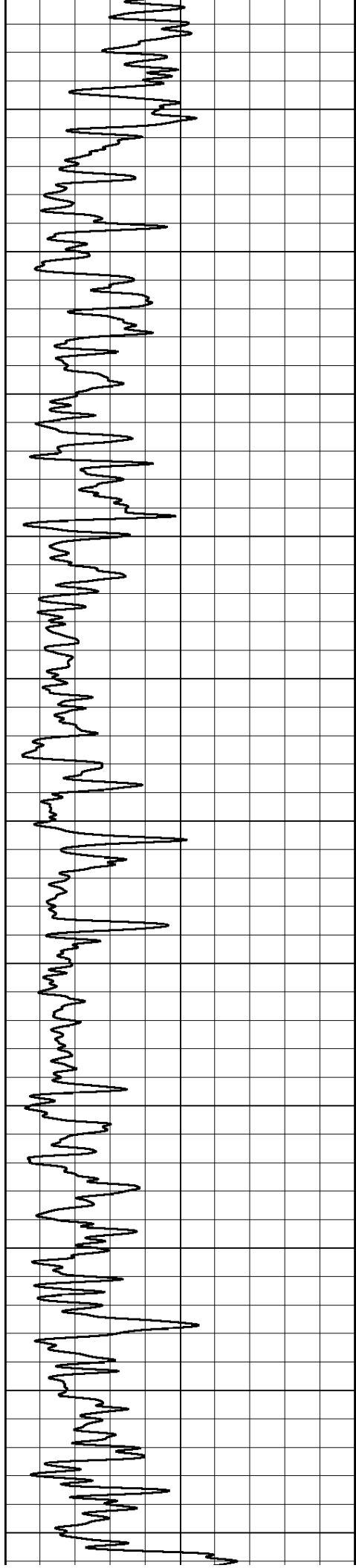
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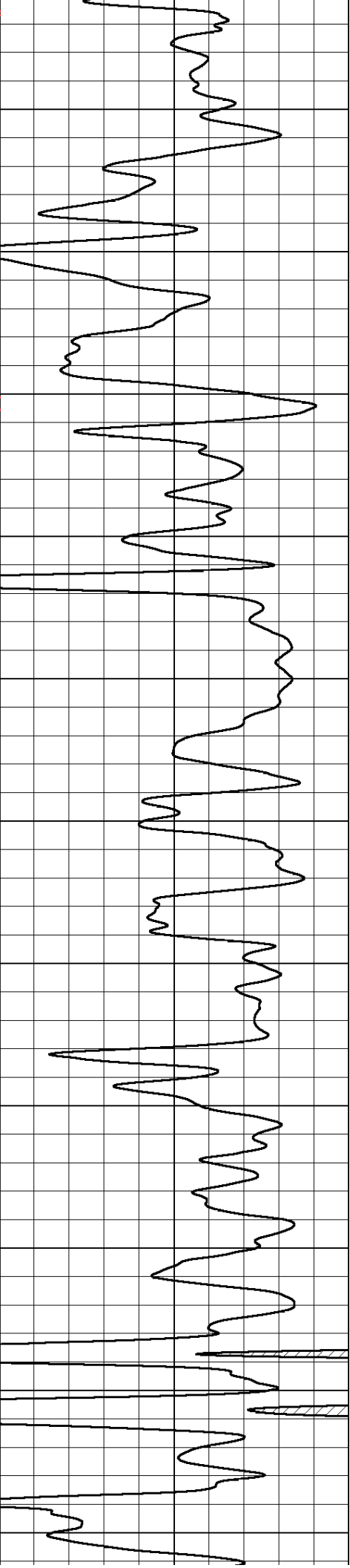
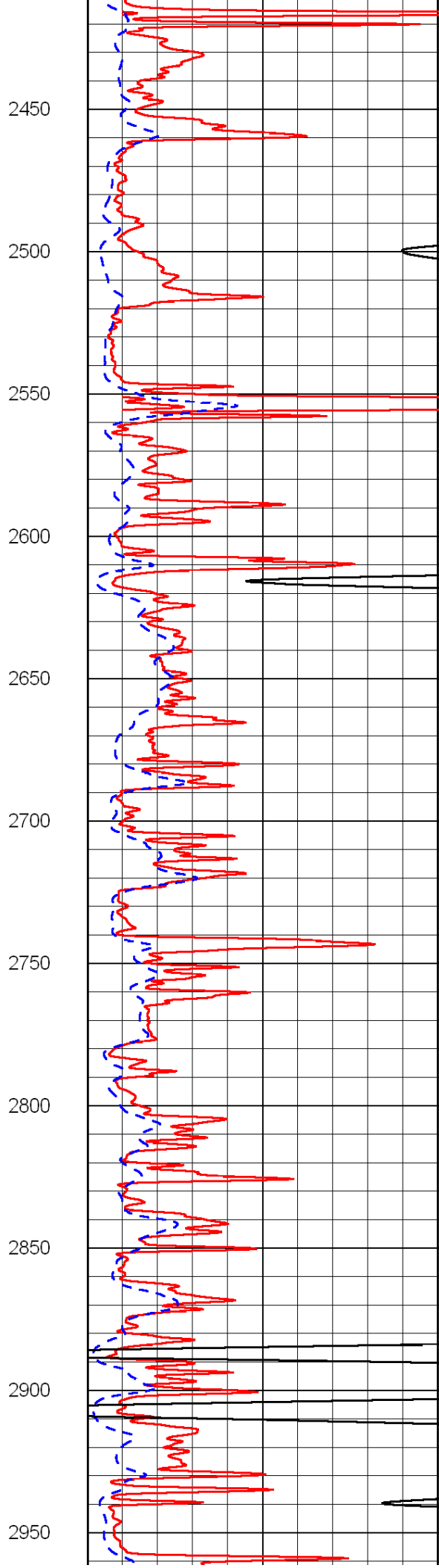
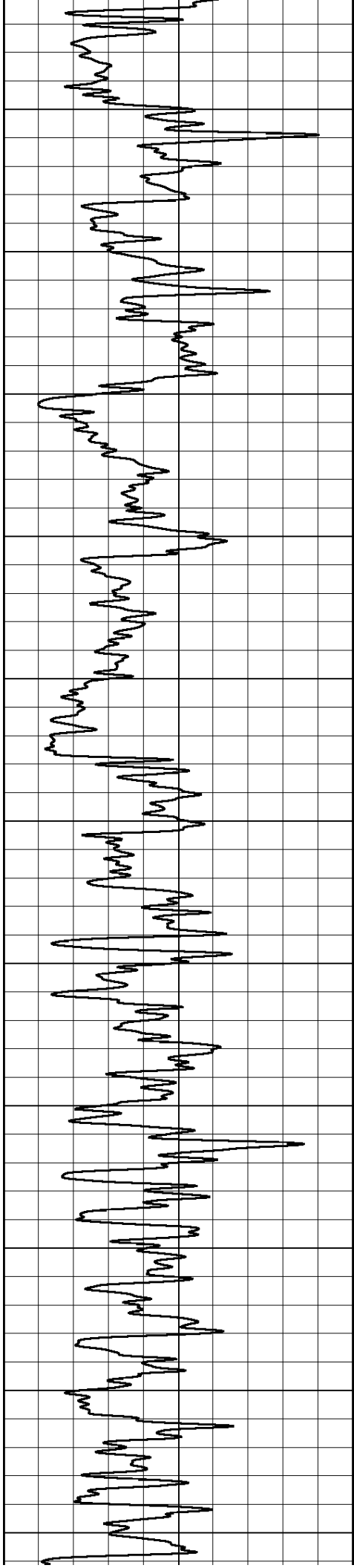
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50	(Ohm-m)	500
50 Deep Resistivity (Ohm-m) 500		

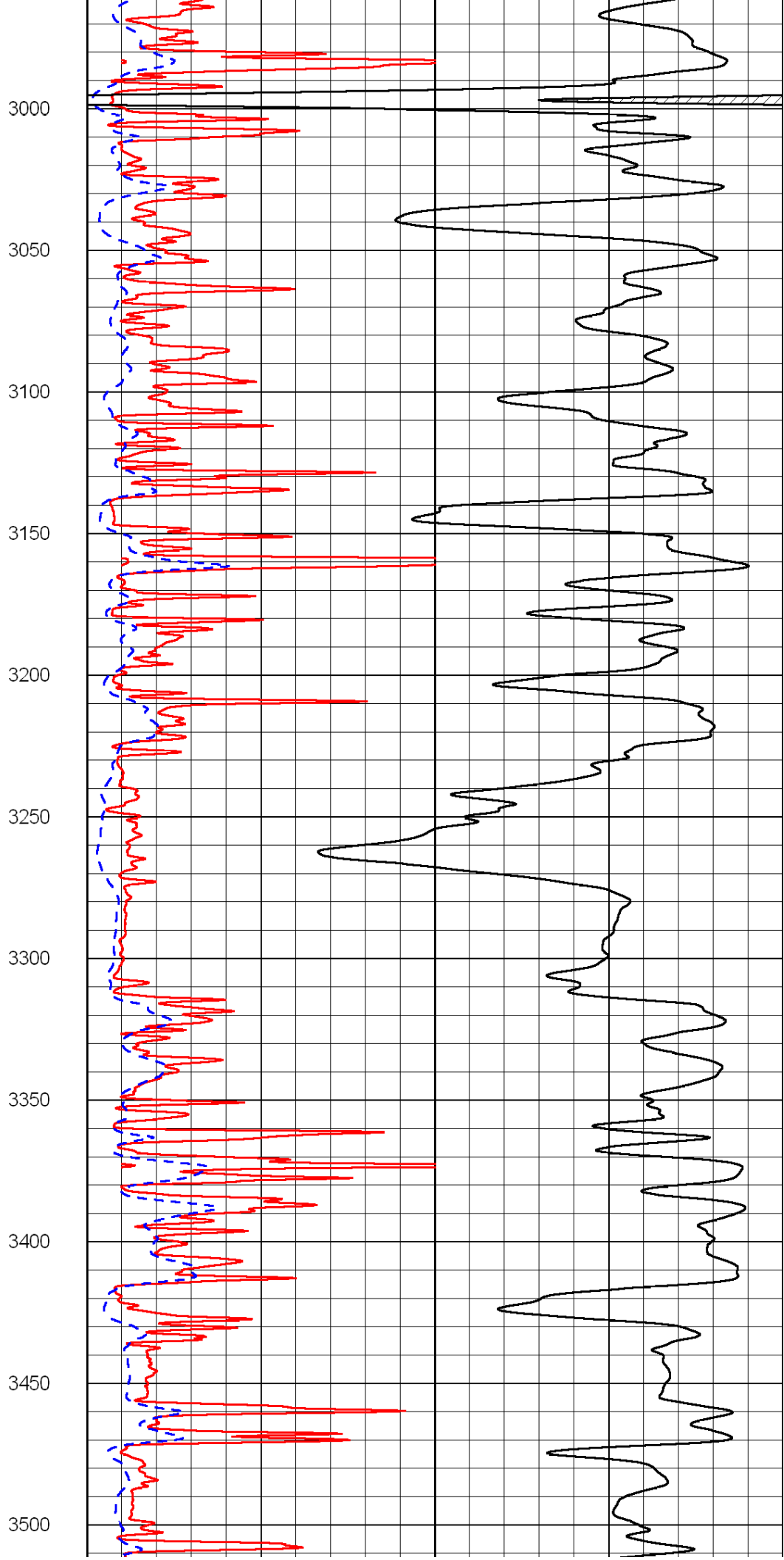
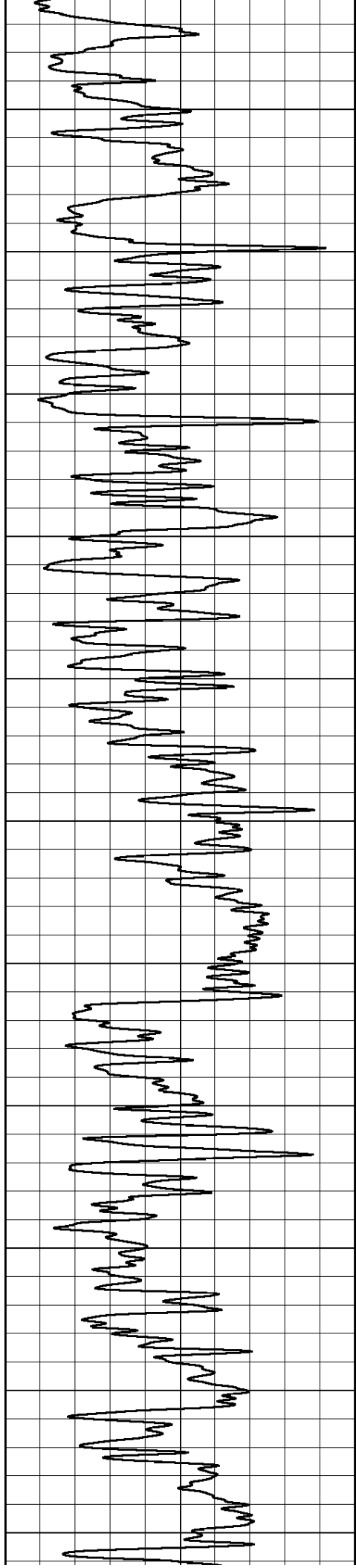


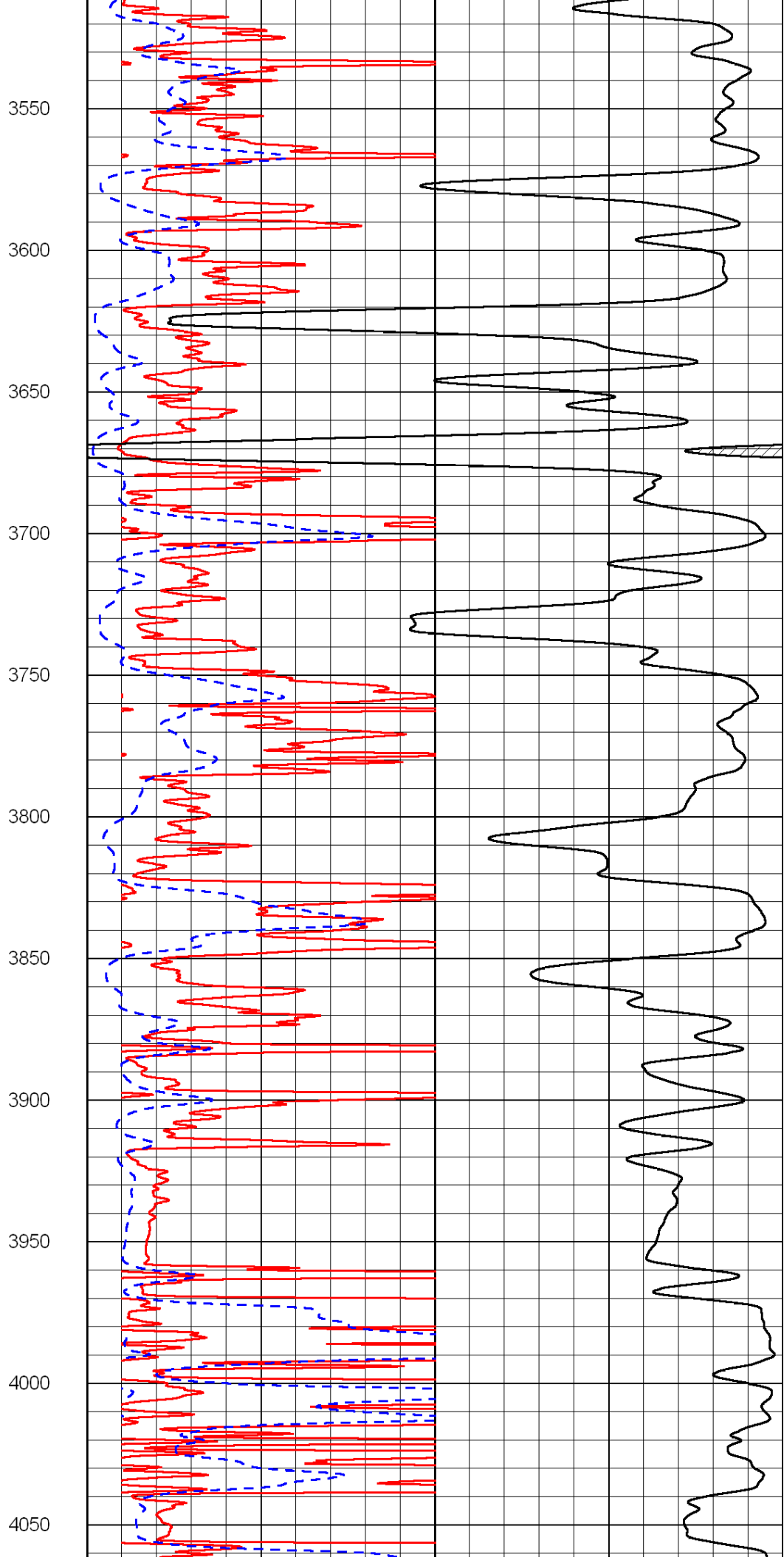
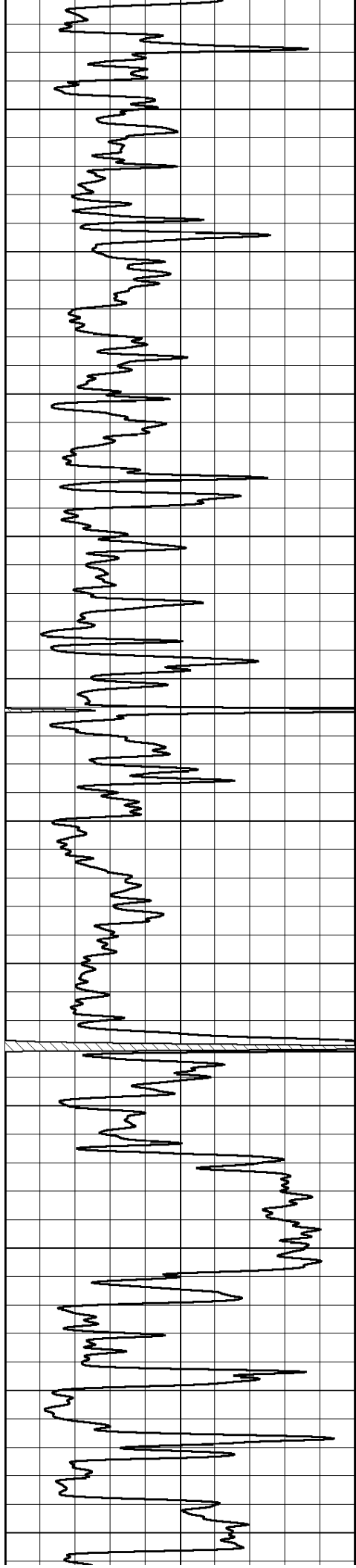


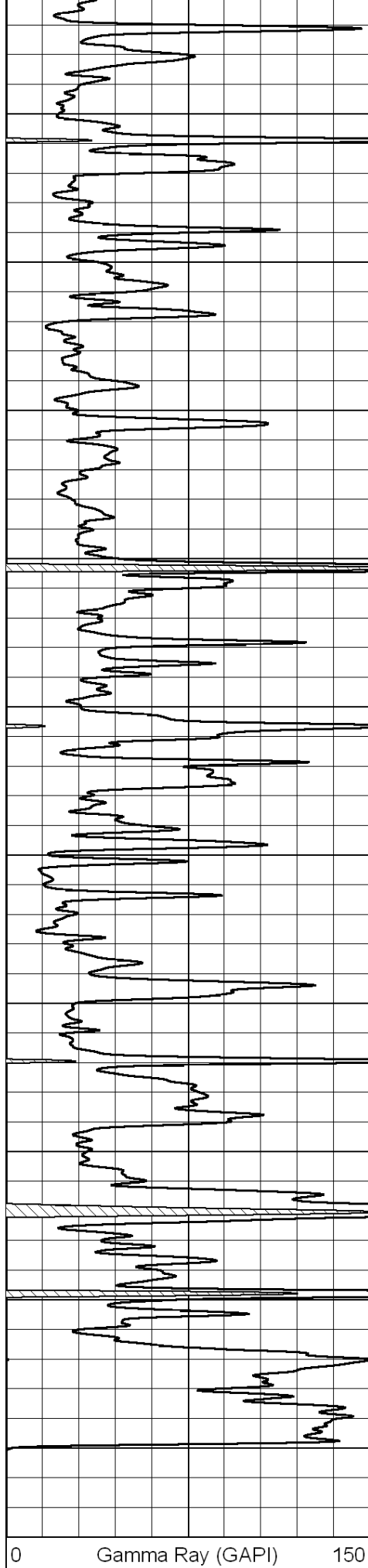




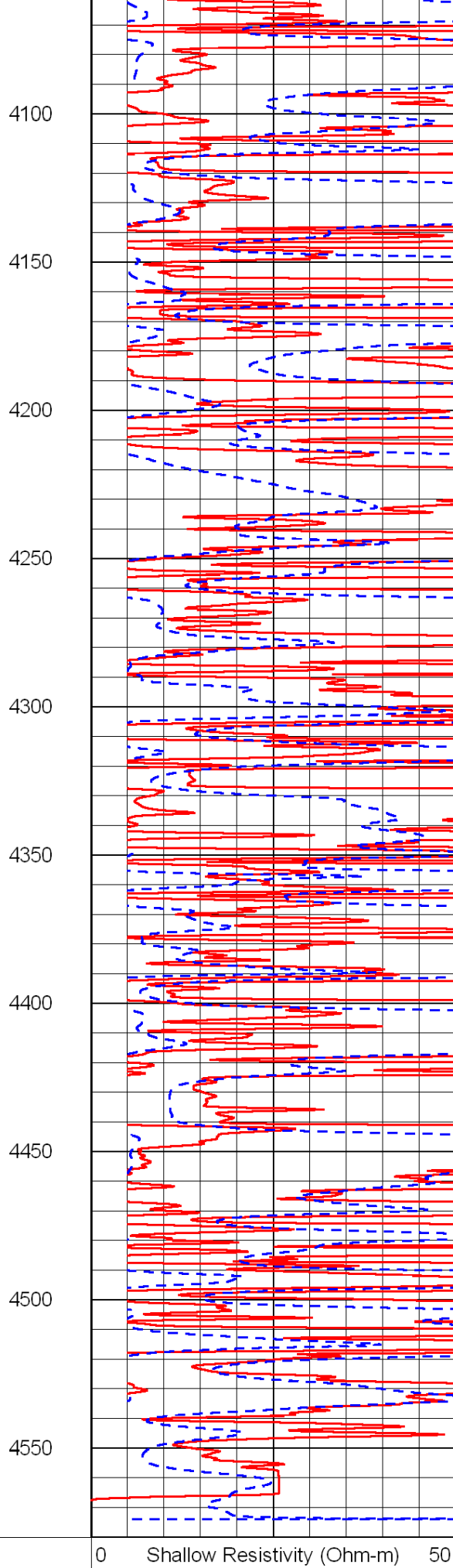








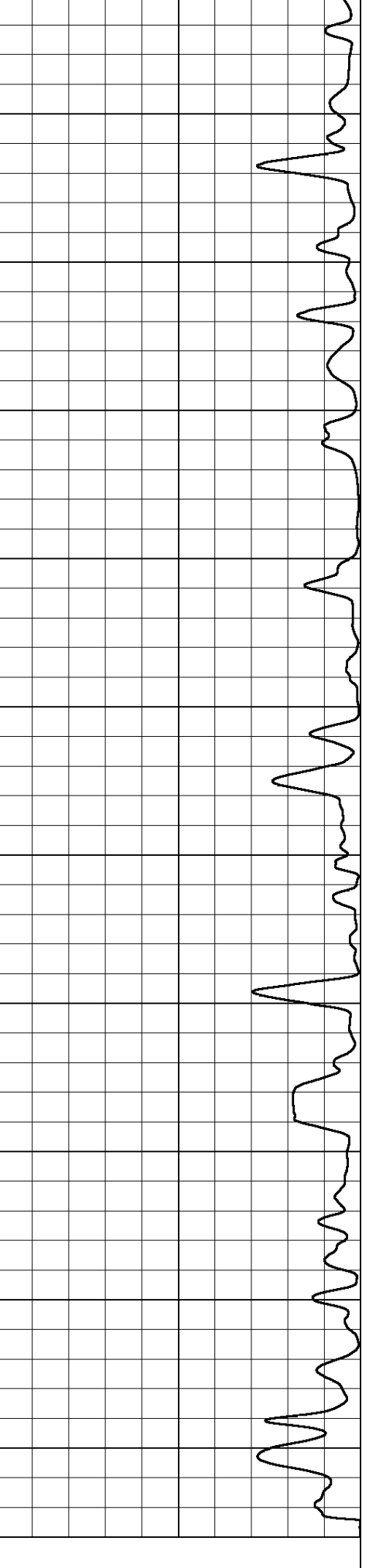
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0 Shallow Resistivity (Ohm-m) 50

0 Deep Resistivity (Ohm-m) 50

1000 Conductivity (mmho/m) 0

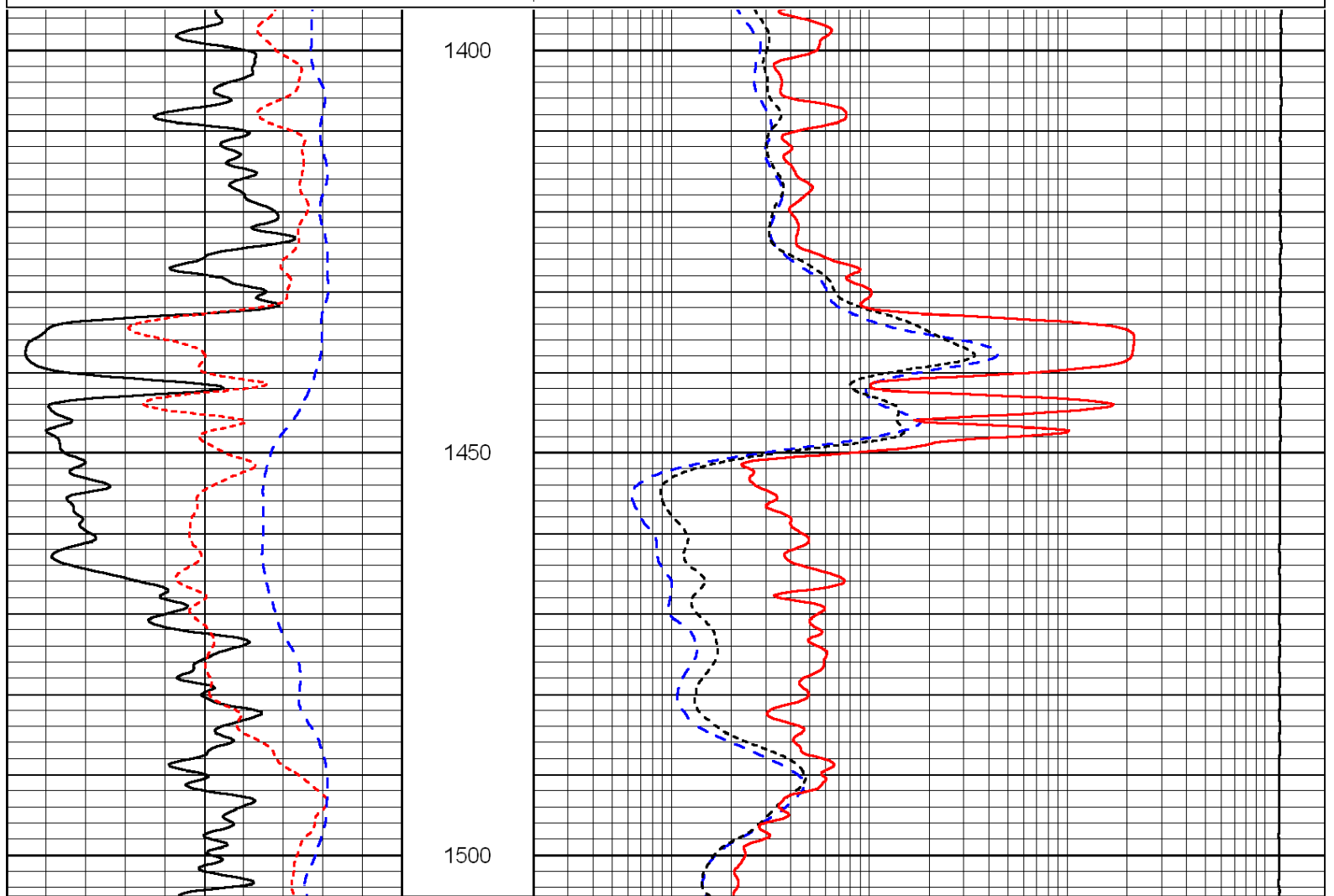


Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

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 Charted by: Depth in Feet scaled 1:240

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-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0



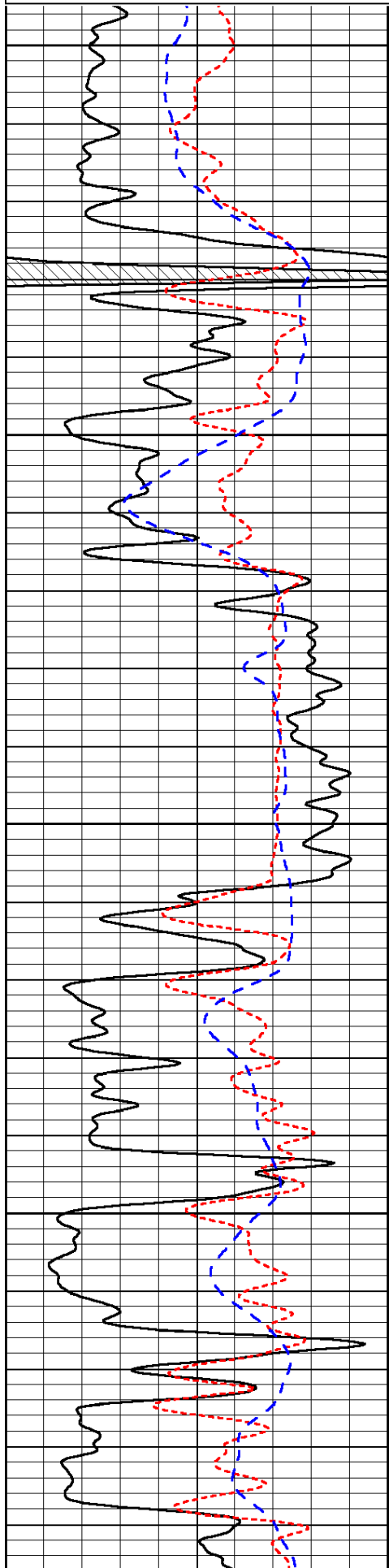
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-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0

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-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0

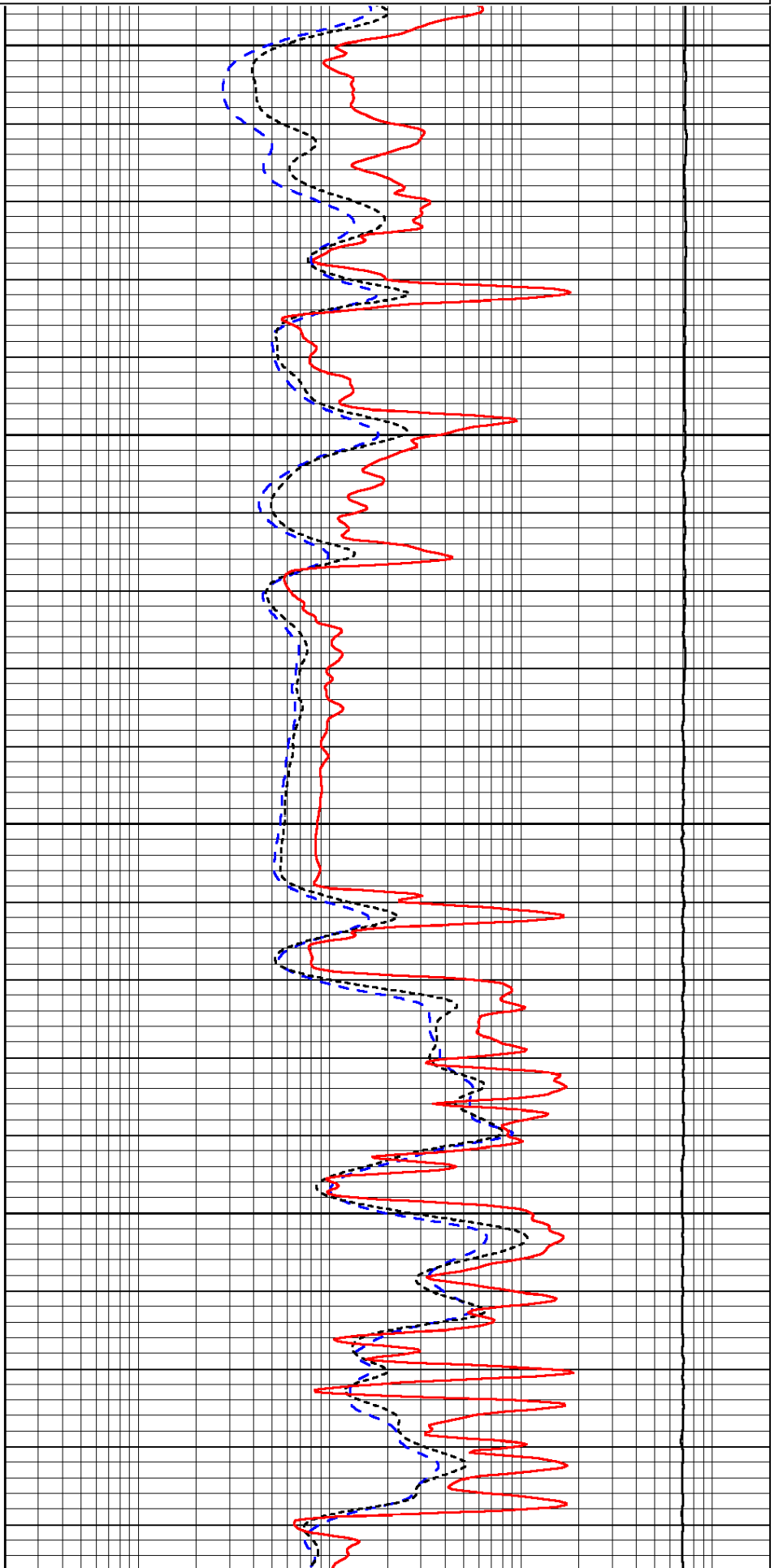


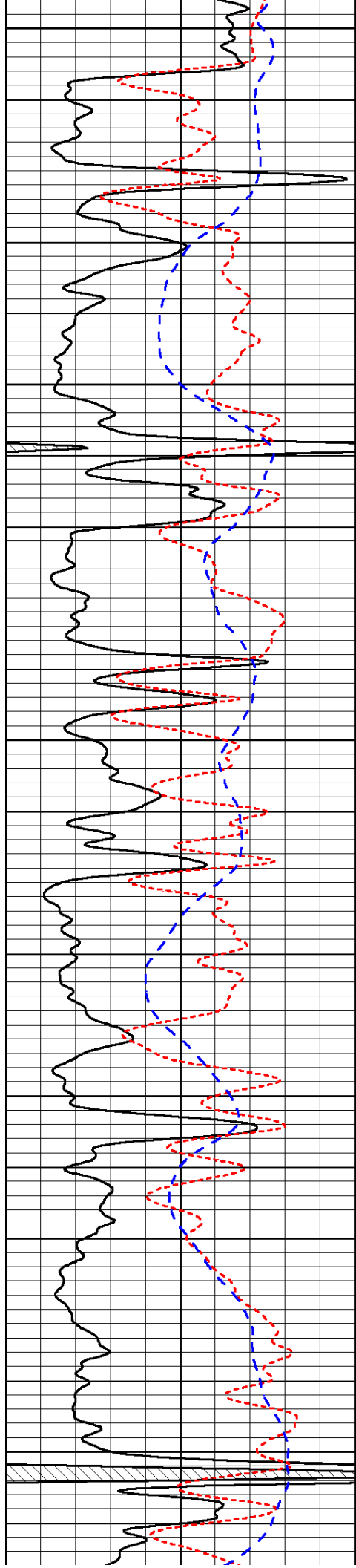
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3900

3950

4000





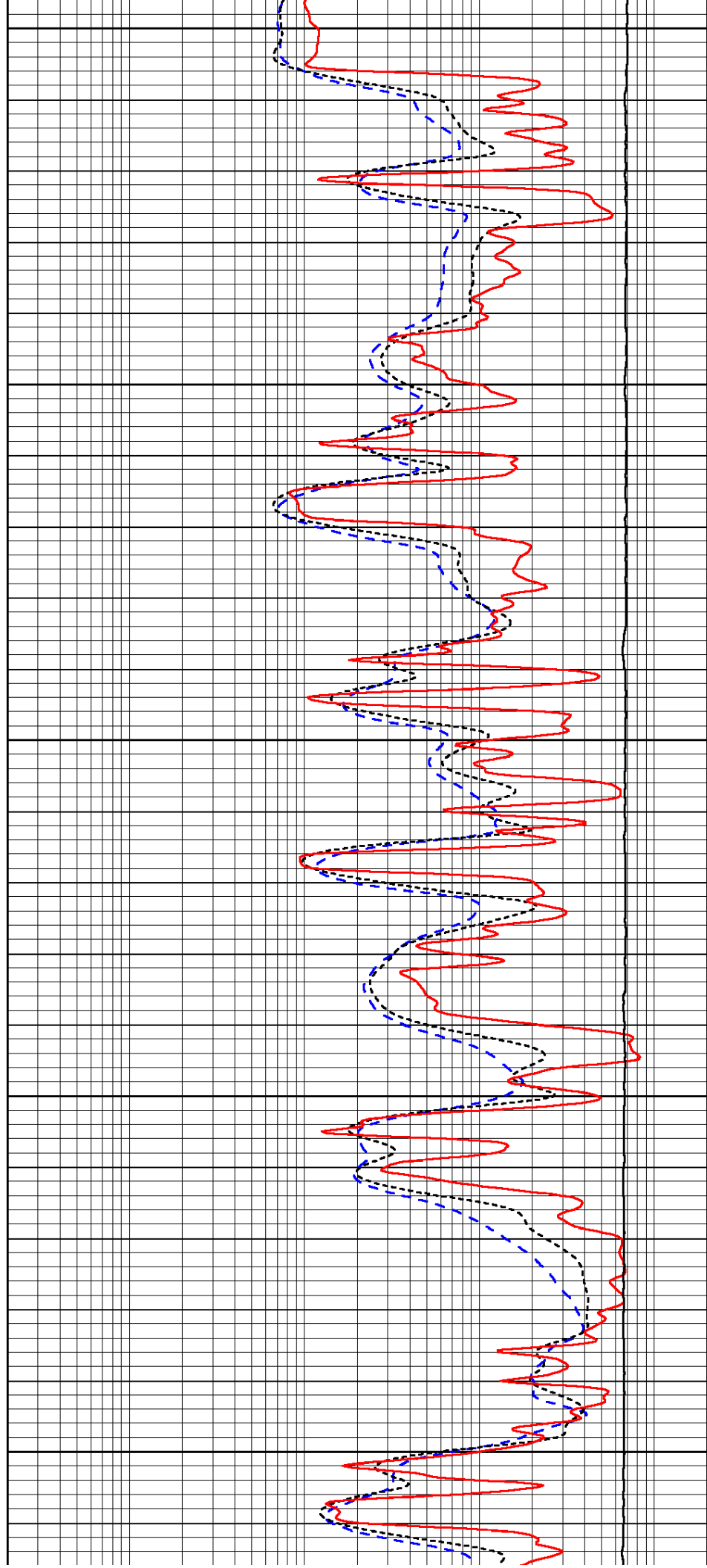
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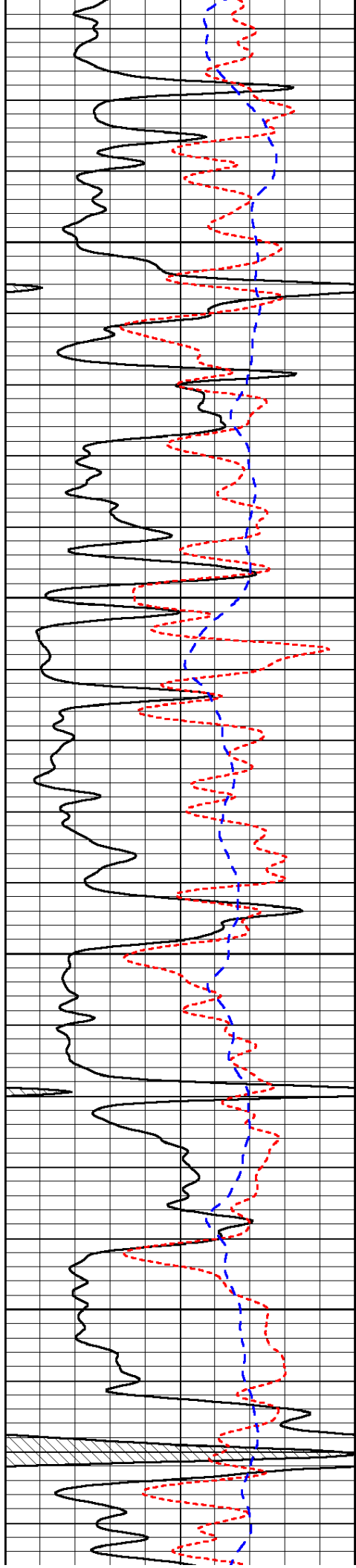
4100

4150

4200

4250



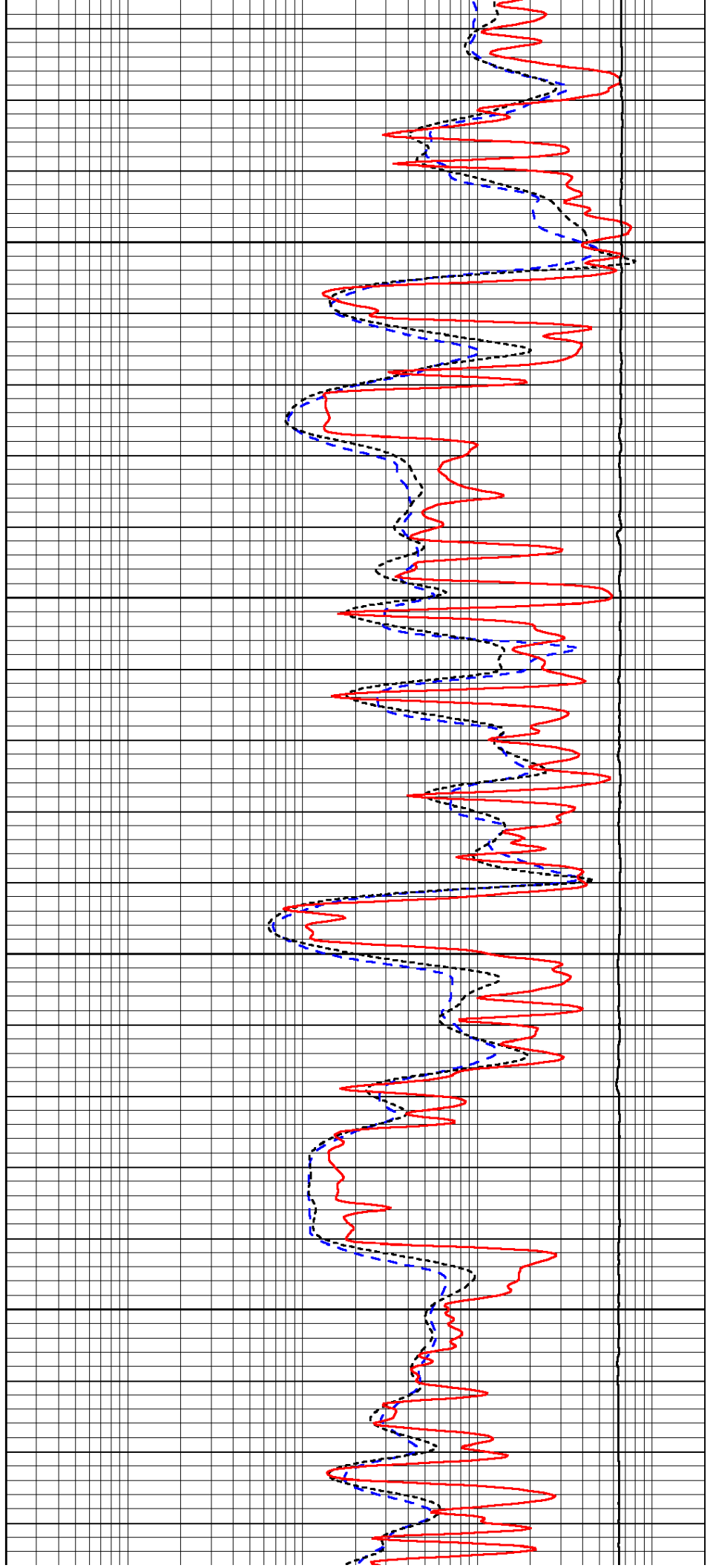


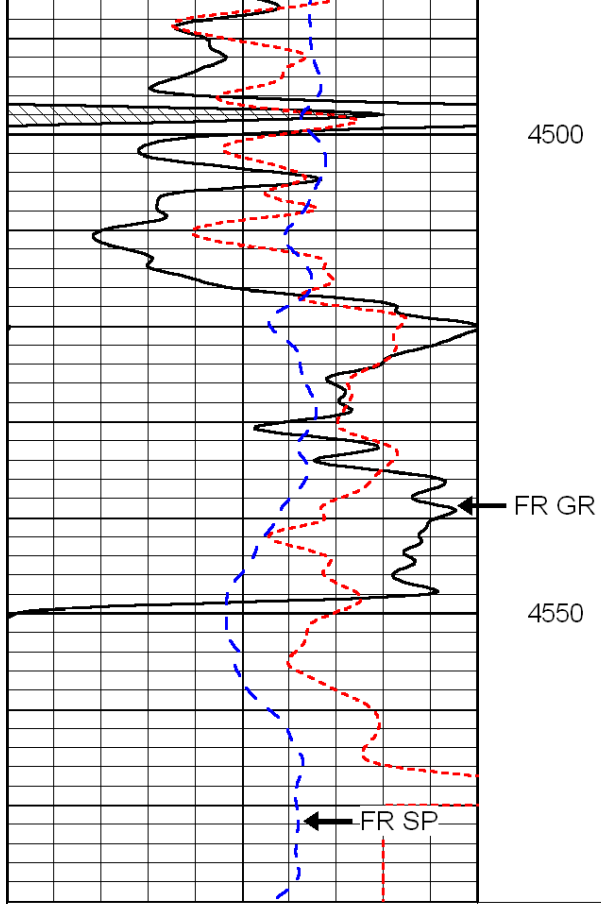
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4350

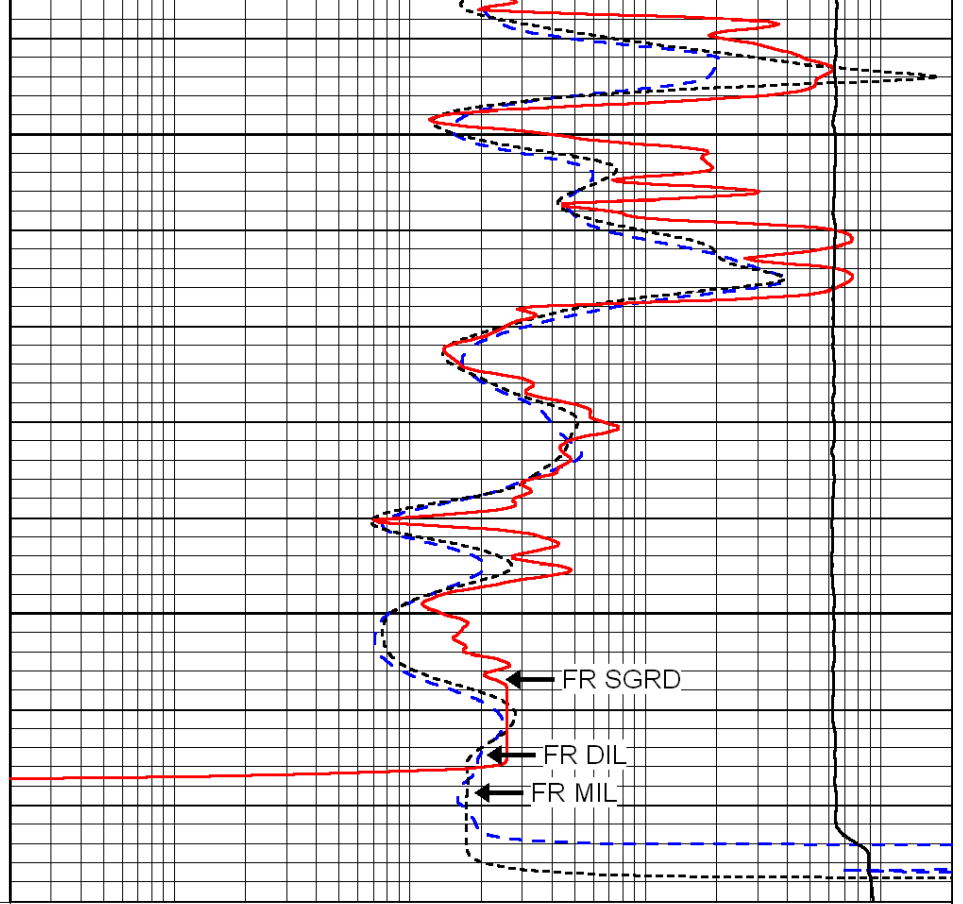
4400

4450






0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0

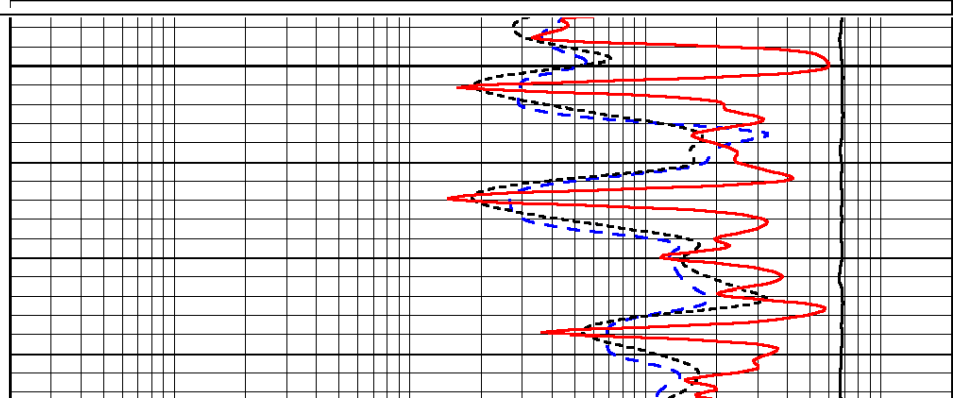
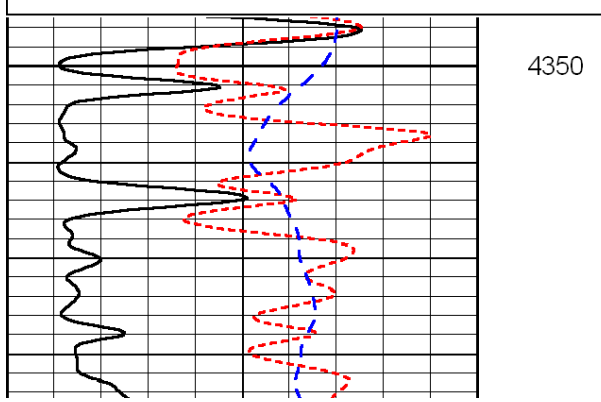


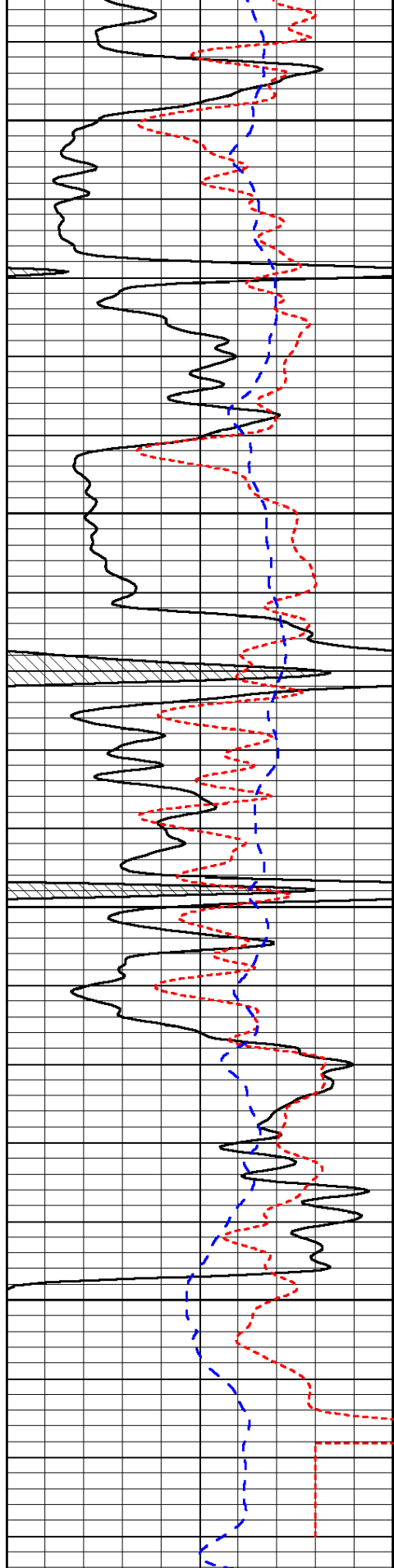
Repeat Section

Database File: becker_121013.db
 Dataset Pathname: stack/pass2.1
 Presentation Format: dil
 Dataset Creation: Tue Dec 10 23:13:12 2013 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

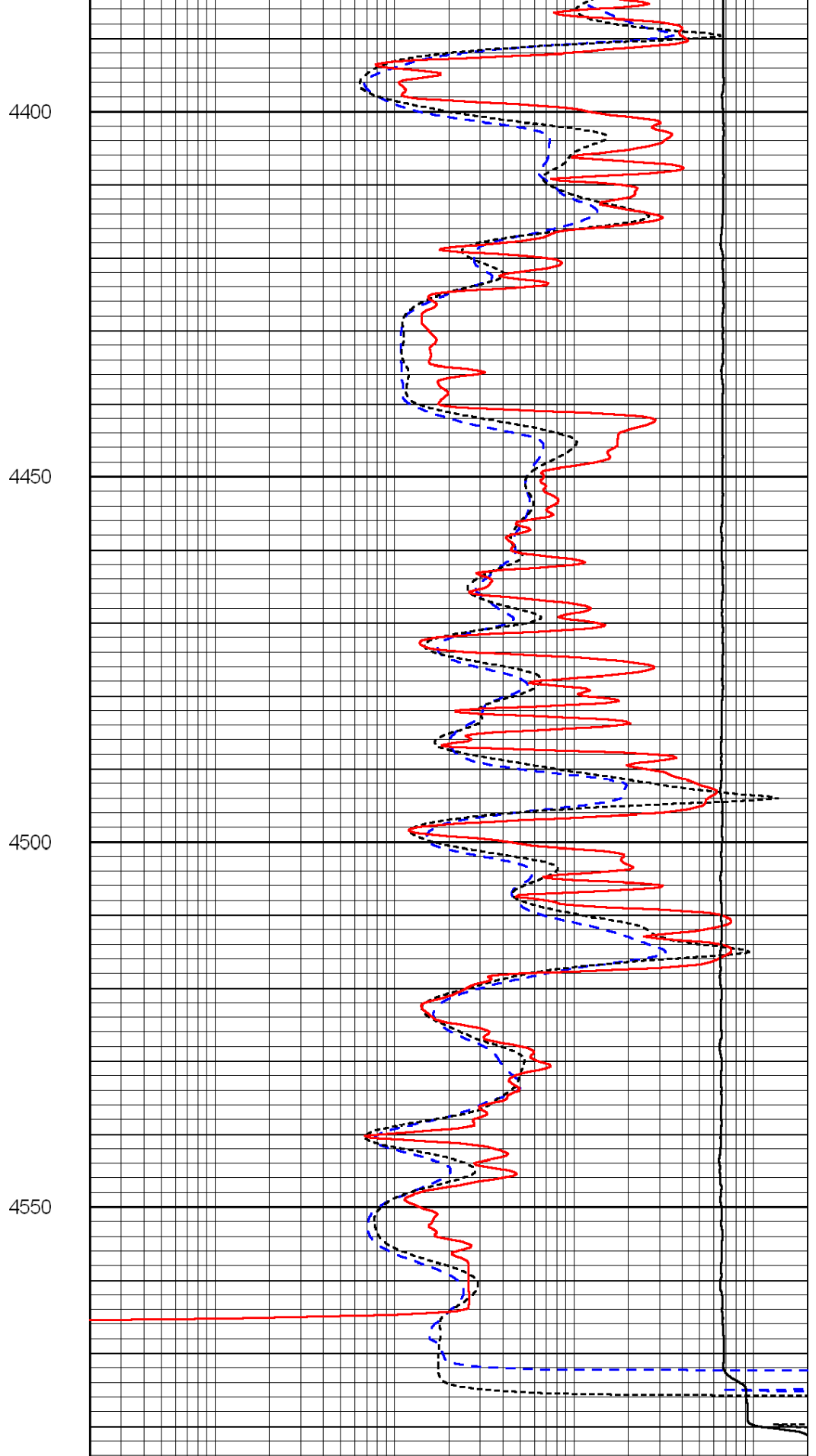
0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0





0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0

Calibration Report

Database File: becker_121013.db
 Dataset Pathname: stack/pass3.1
 Dataset Creation: Wed Dec 11 00:26:16 2013

Dual Induction Calibration Report

Serial-Model: PSI 75-M&W-75
 Surface Cal Performed:

Loop:	Readings		References		Results		
	Air	Loop	Air	Loop	m	b	
Deep	166.796	835.089	0.000	255.800	mmho/m	0.500	-42.250
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.335	-38.500

Compensated Density Calibration Report

Serial-Model: 90-119-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Thu Nov 21 12:42:15 2013
 Before Survey Verification Performed:
 After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5218.22	6353.28	cps
Aluminum	2.670	g/cc	981.76	4056.90	cps
Spine Angle = 74.97			Density/Spine Ratio = 0.529		
	Size		Reading		
Small Ring	6.00	in	0.72		
Large Ring	16.00	in	0.08		

Compensated Neutron Calibration Report

Serial Number: 27-PSI
 Tool Model: PSI

CALIBRATION

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.8500
Long Space	460.00 cps	1000.00 cps	2.6500

Gamma Ray Calibration Report

Serial Number: 89
 Tool Model: M&W
 Performed: Mon Oct 21 15:52:37 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0800 GAPI/cps



Pioneer Energy Services

Dual Compensated Porosity Log

15-083-21899-00-00

Company: Becker Oil Corporation
 Well: Gleason #2
 Field: Saw Log Creek
 County: Hodgeman State Kansas

Location

1000' FSL & 335' FWL

Other Services
DIL

Sec: 32 Twp: 23S Rge: 21W

Permanent Datum: Ground Level
 Log Measured From: Kelly Bushing 10 Ft. Above Perm. Datum
 Drilling Measured From: Kelly Bushing

Elevation
 K.B. 2369
 D.F. 2359
 G.L. 2359

Date: 12/10/2013

Run Number: One

Type Log: CNL / CDL

Depth Driller: 4575

Depth Logger: 4573

Bottom Logged Interval: 4552 - 2750

Top Logged Interval: 3850 - 2400

Type Fluid In Hole: Chemical

Salinity, PPM CL: 6500

Density: 8.8

Level: Full

Max. Rec. Temp. F: 124

Operating Rig Time: 3 Hours

Equipment -- Location: 91 Hays

Recorded By: D. Schmidt

Witnessed By: Clyde Becker

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt. 23#	From	To
One	12.25	0	332	8.625		0	332
Two	7.875	332	TD				

<<< Fold Here >>>

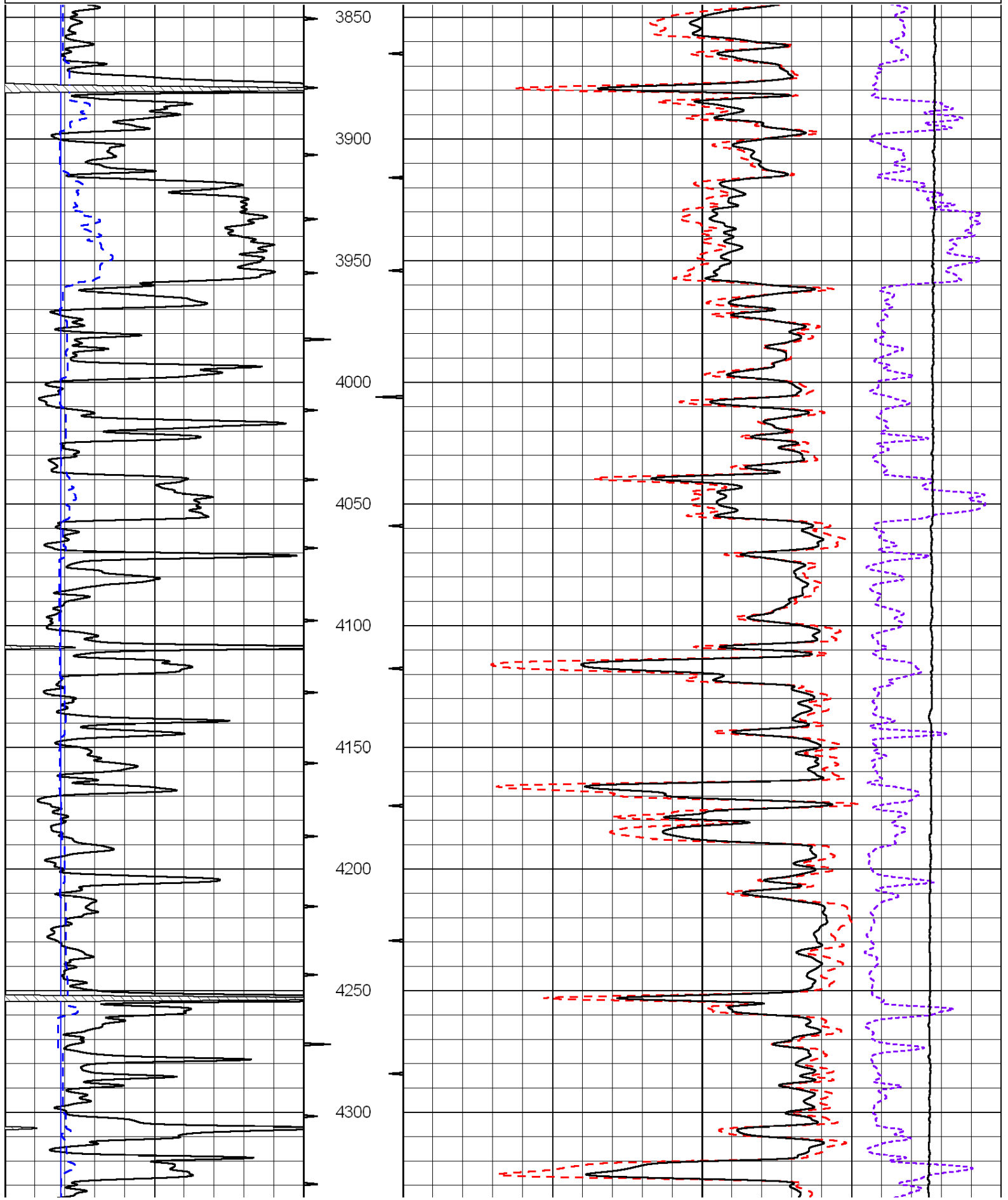
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

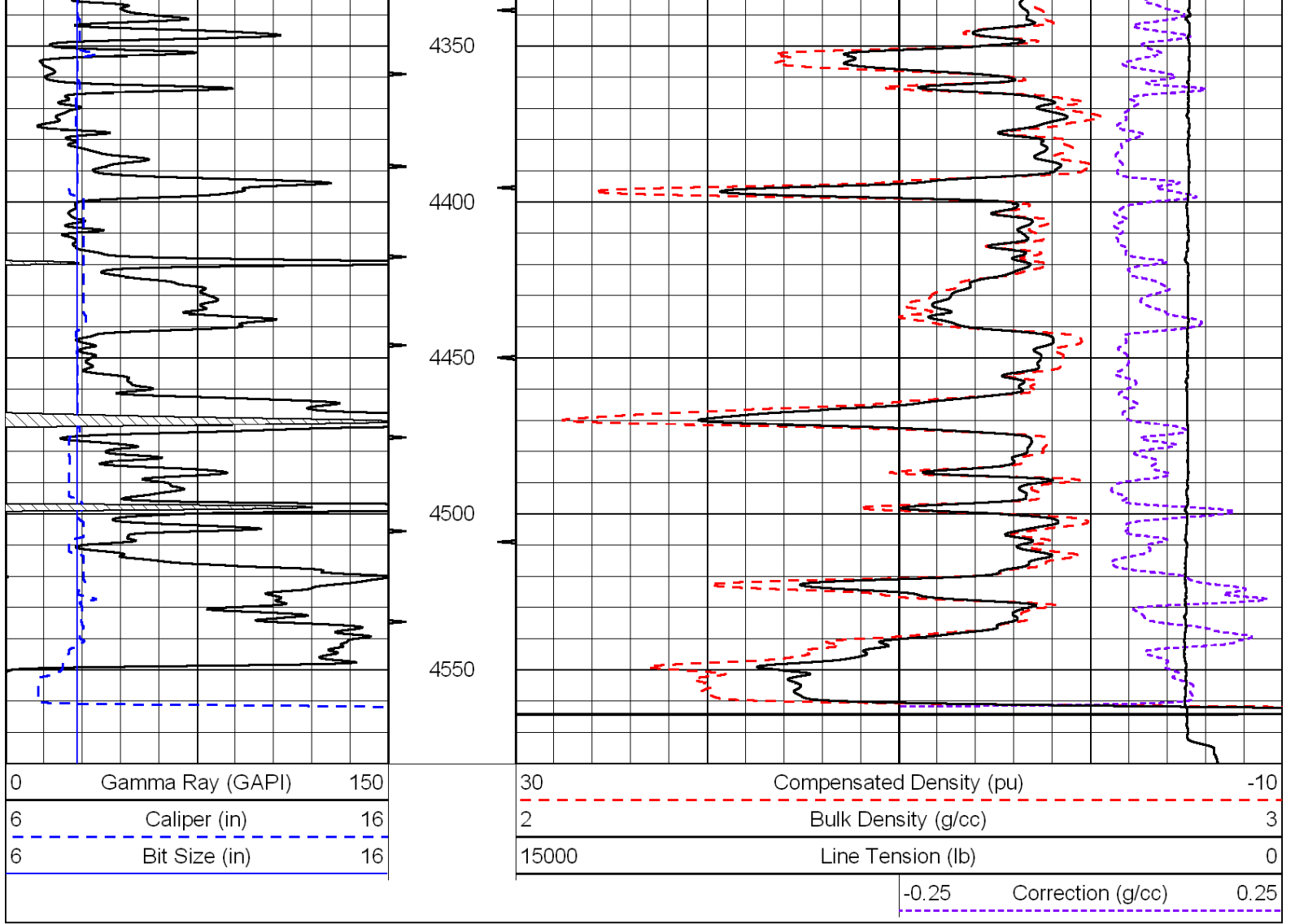
Comments

Thank you for using Pioneer Energy Services
 ☐☐ 785.625.3858
 Burdette,
 4 West to 234 RD,
 South to G RD, 2 3/4 West,
 North Into

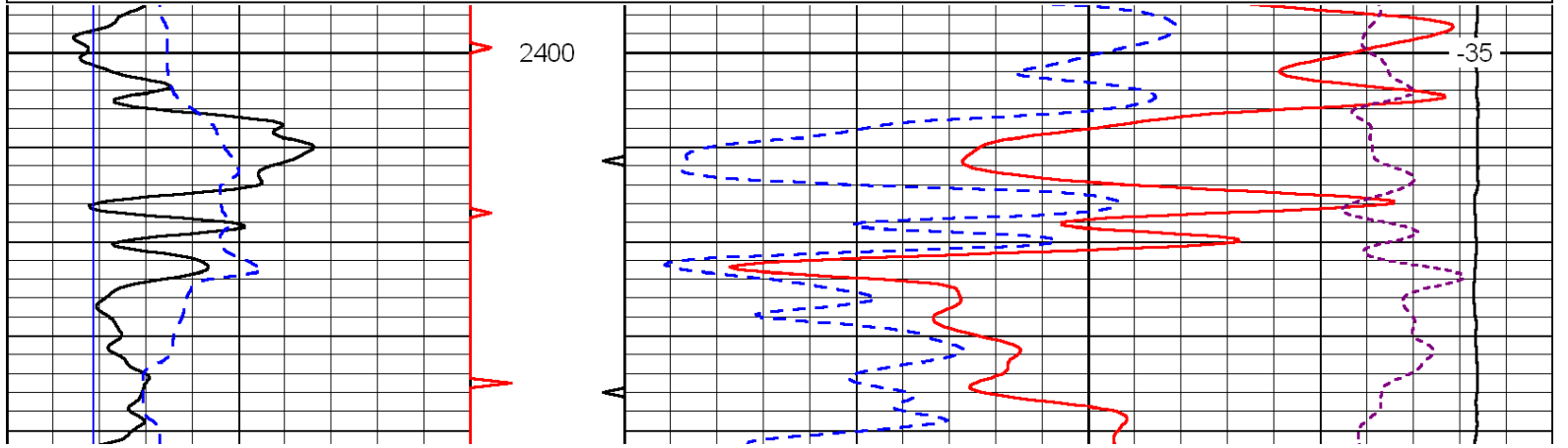
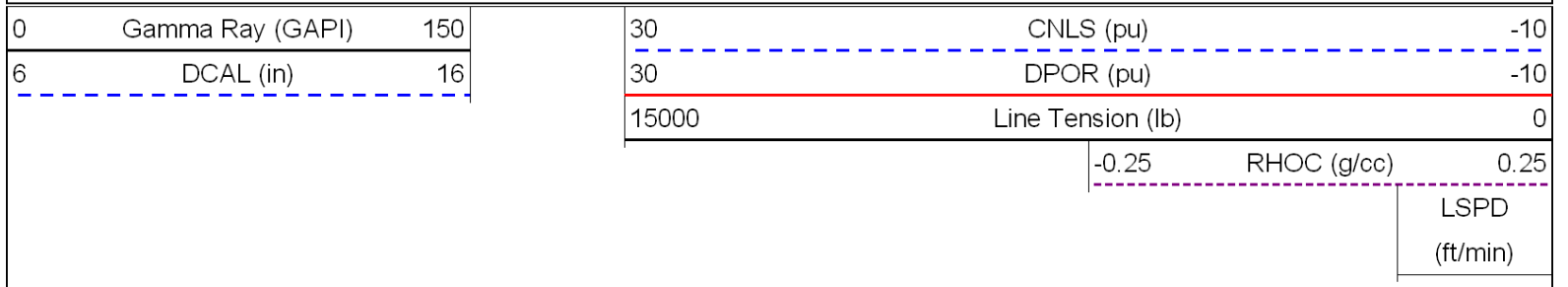
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
6	Bit Size (in)	16

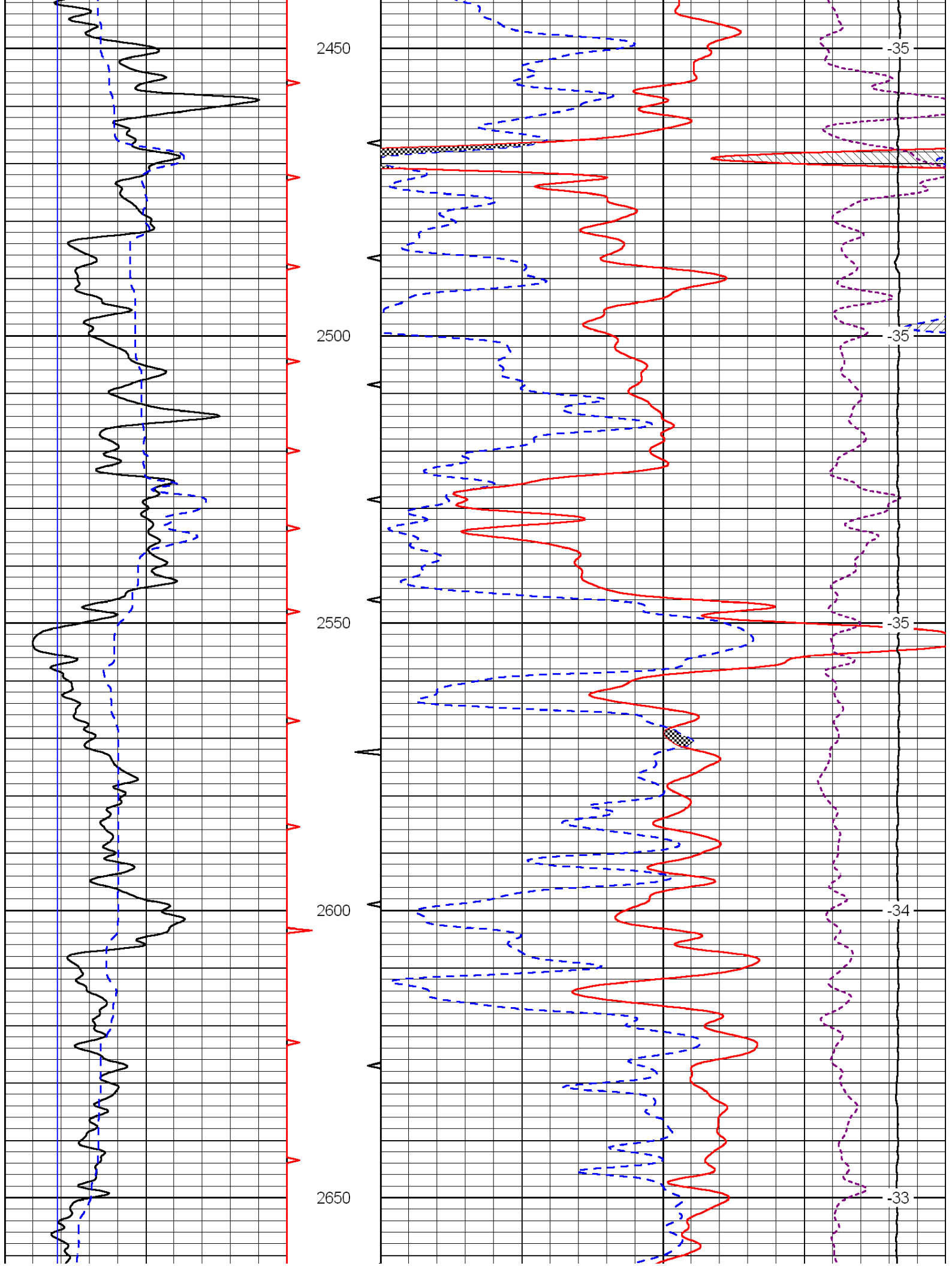
30	Compensated Density (pu)	-10	
2	Bulk Density (g/cc)	3	
15000	Line Tension (lb)	0	
	-0.25	Correction (g/cc)	0.25

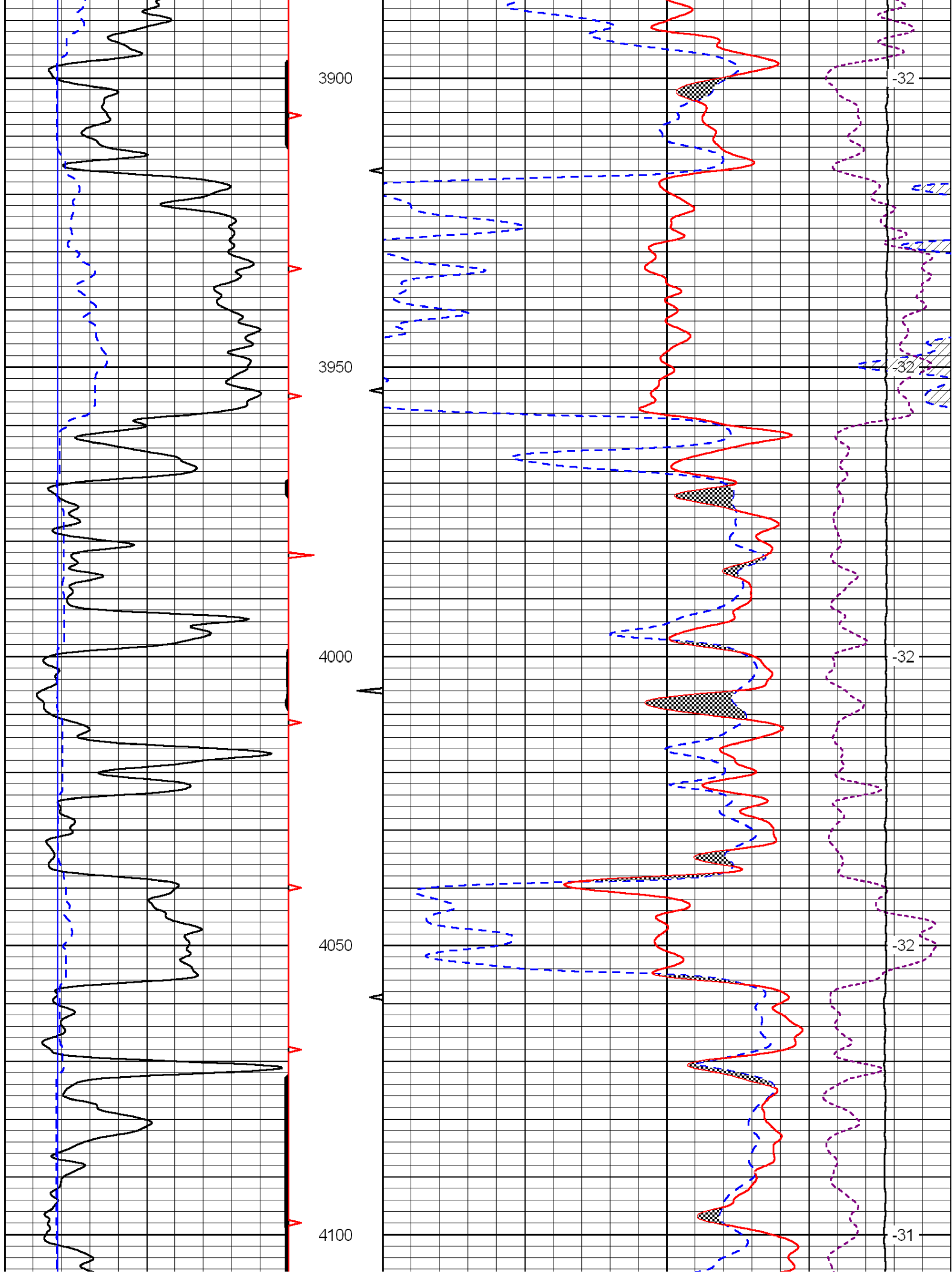


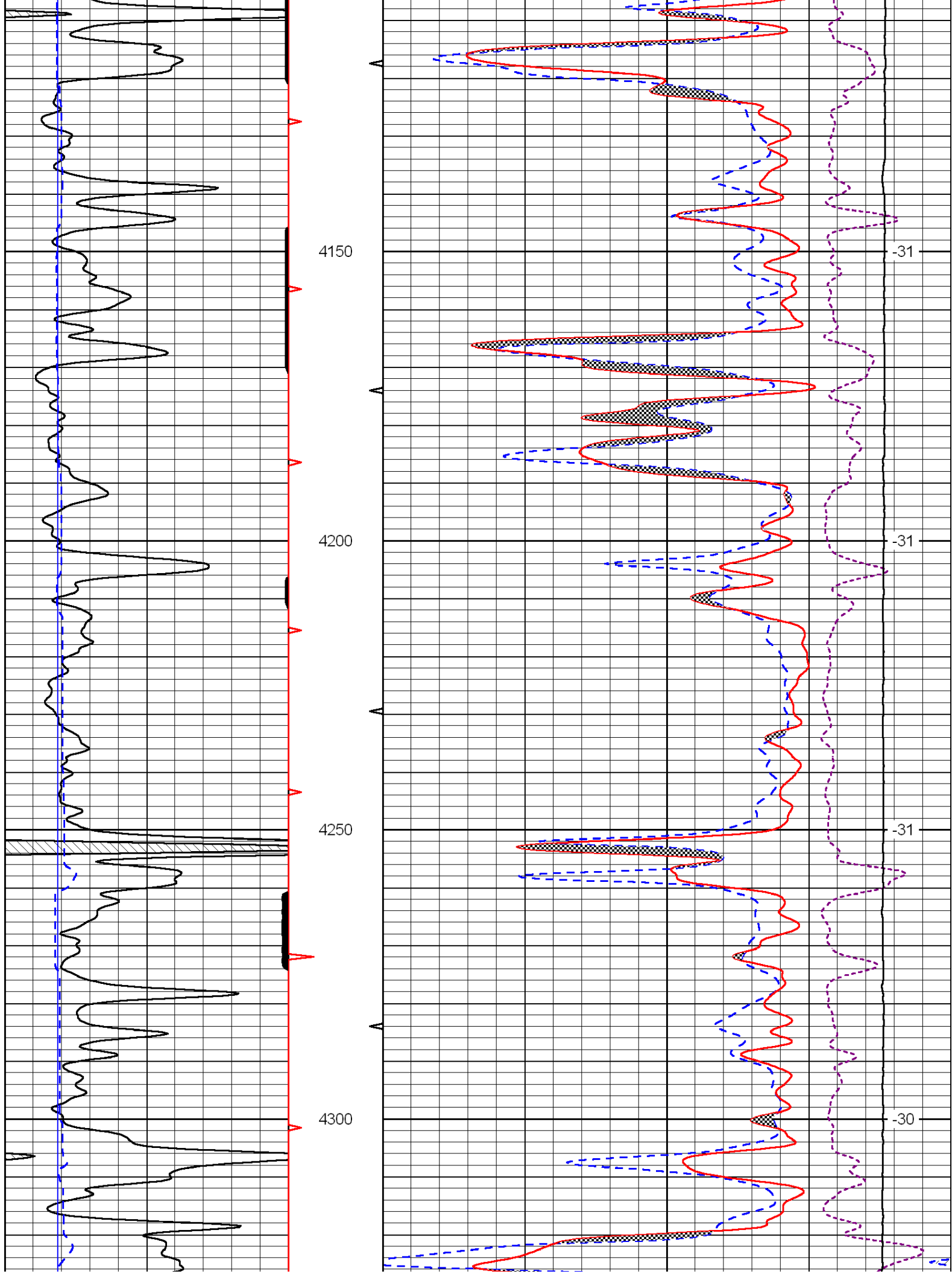


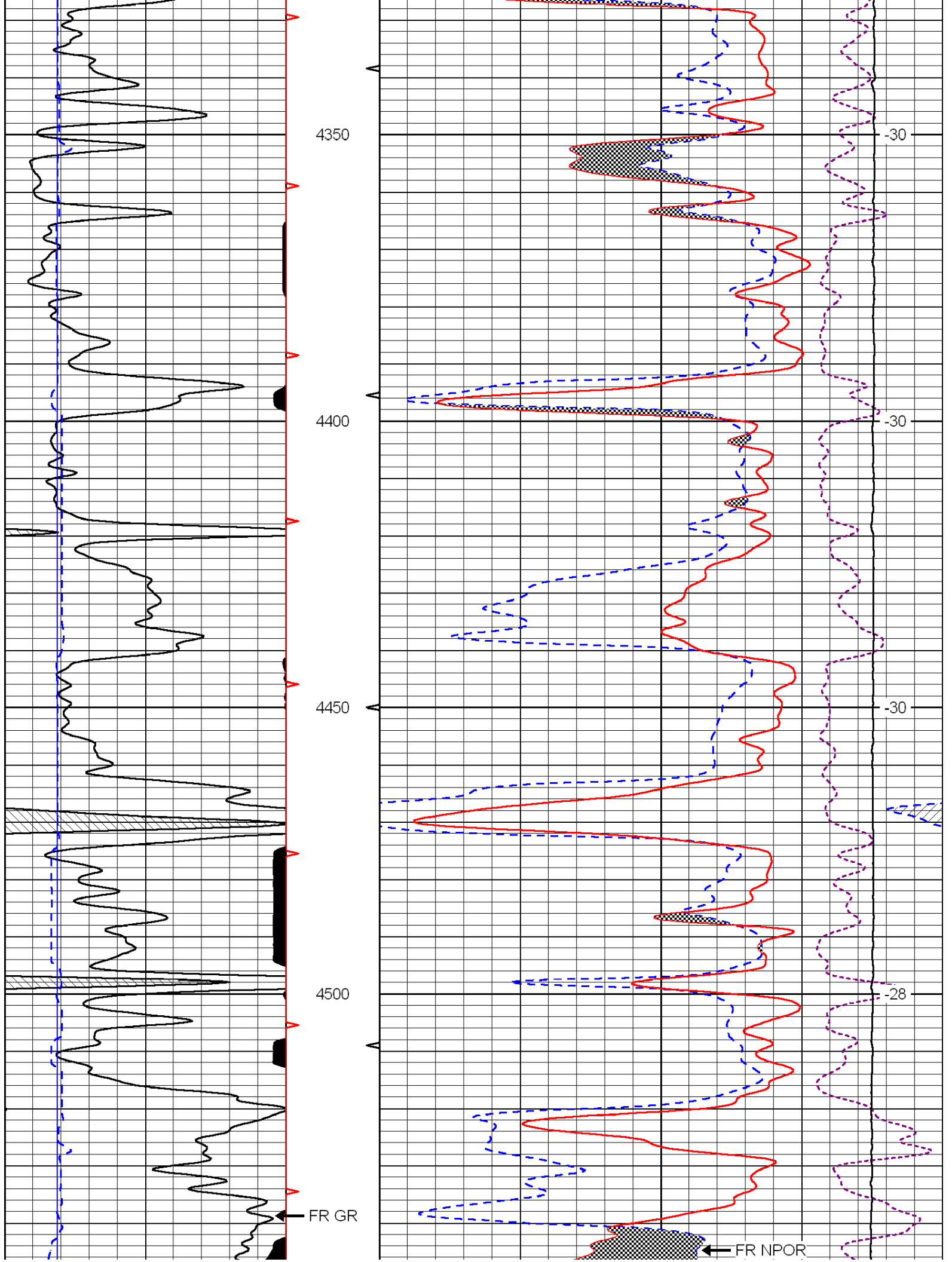
Database File: becker_121013.db
 Dataset Pathname: stack/pass3.1
 Presentation Format: cndlspec
 Dataset Creation: Wed Dec 11 00:26:16 2013
 Charted by: Depth in Feet scaled 1:240

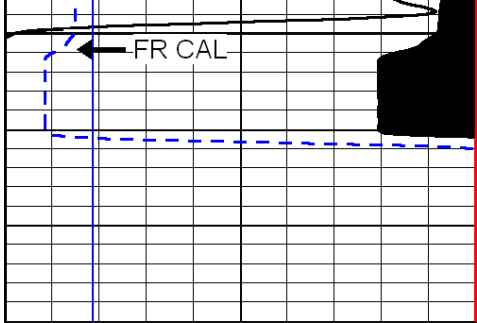




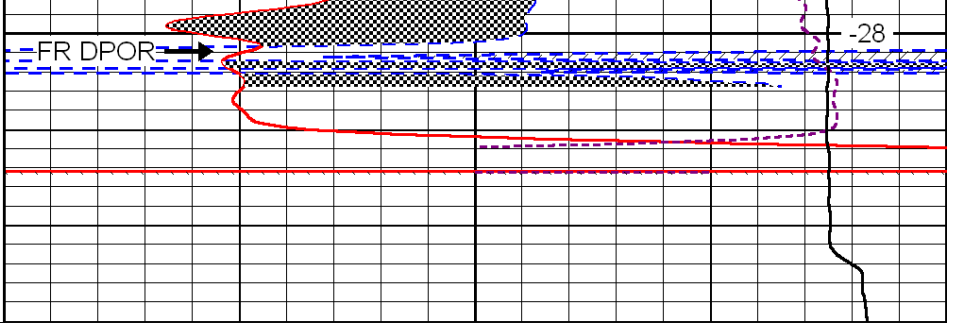








4550



-28

0 Gamma Ray (GAPI) 150

6 DCAL (in) 16

30 CNLS (pu) -10

30 DPOR (pu) -10

15000 Line Tension (lb) 0

-0.25 RHOC (g/cc) 0.25

LSPD
(ft/min)



Pioneer Energy Services

Repeat Section

Database File: becker_121013.db
 Dataset Pathname: stack/pass2.1
 Presentation Format: cndlspec
 Dataset Creation: Tue Dec 10 23:13:12 2013 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150

6 DCAL (in) 16

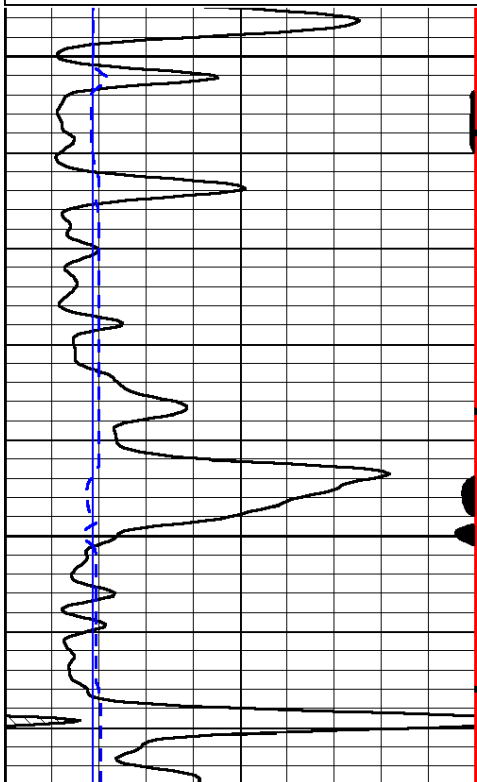
30 CNLS (pu) -10

30 DPOR (pu) -10

15000 Line Tension (lb) 0

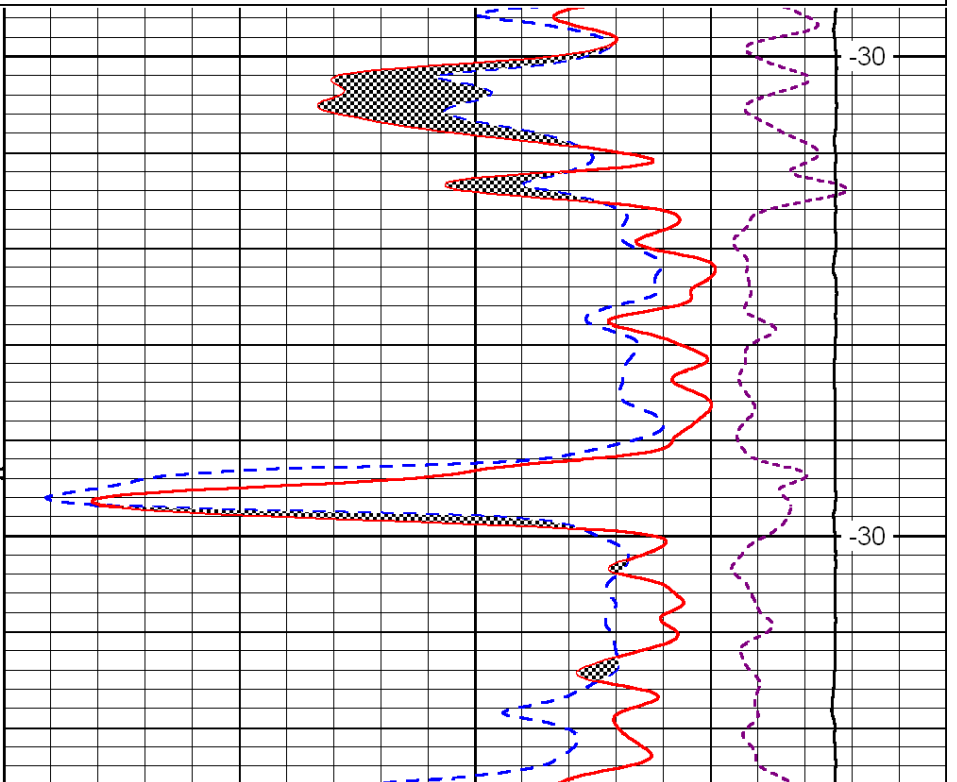
-0.25 RHOC (g/cc) 0.25

LSPD
(ft/min)



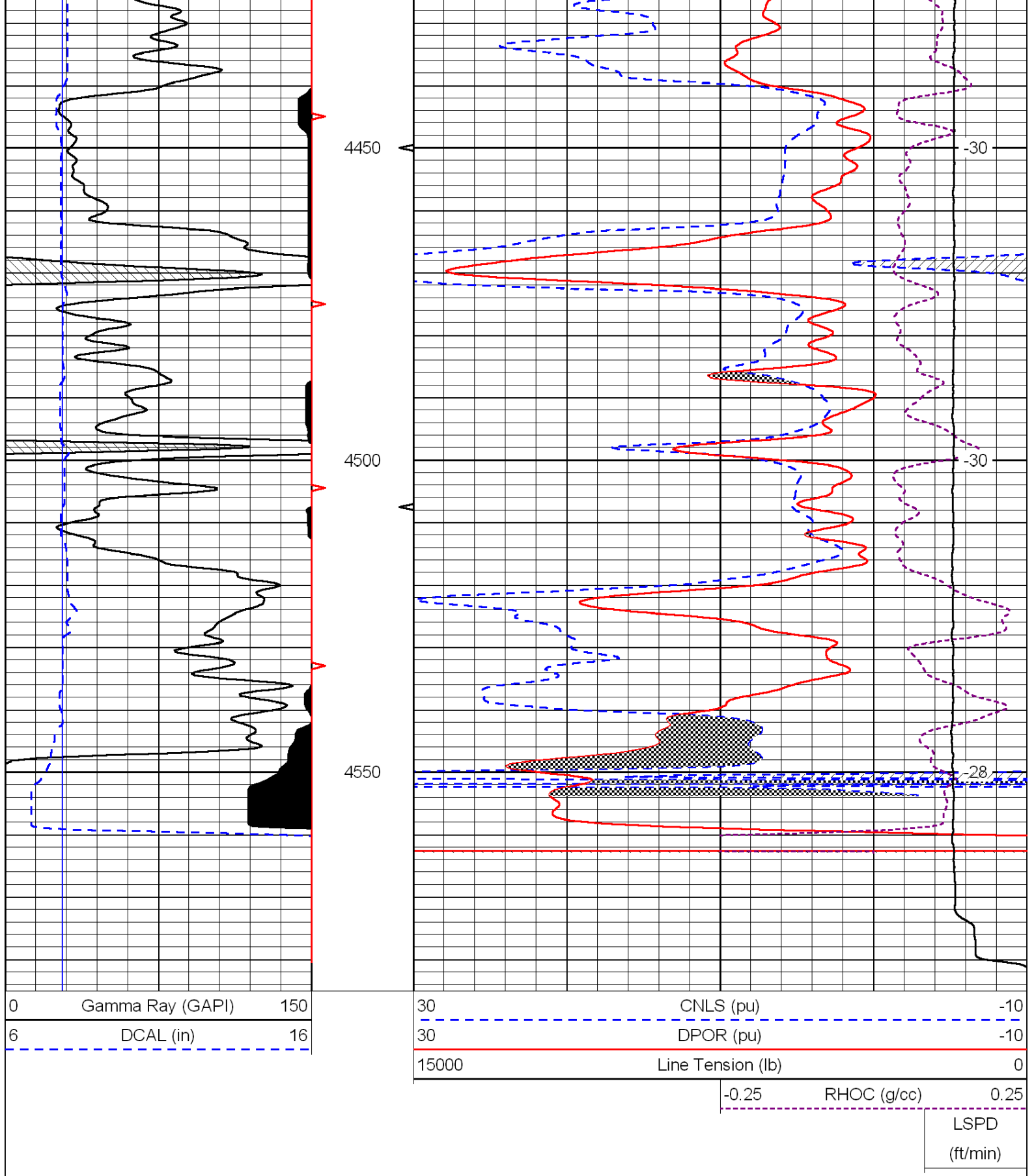
4350

4400



-30

-30



Calibration Report

Database File: becker_121013.db
 Dataset Pathname: stack/pass3.1
 Dataset Creation: Wed Dec 11 00:26:16 2013

Dual Induction Calibration Report

Serial-Model:

PSI 75-M&W-75

Serial Model:
Surface Cal Performed:

Loop:	Readings		References		Results		
	Air	Loop	Air	Loop	m	b	
Deep	166.796	835.089	0.000	255.800	mmho/m	0.500	-42.250
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.335	-38.500

Compensated Density Calibration Report

Serial-Model: 90-119-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Thu Nov 21 12:42:15 2013
 Before Survey Verification Performed:
 After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5218.22	6353.28	cps
Aluminum	2.670	g/cc	981.76	4056.90	cps
Spine Angle = 74.97			Density/Spine Ratio = 0.529		
	Size		Reading		
Small Ring	6.00	in	0.72		
Large Ring	16.00	in	0.08		

Compensated Neutron Calibration Report

Serial Number: 27-PSI
 Tool Model: PSI

CALIBRATION

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.8500
Long Space	460.00 cps	1000.00 cps	2.6500

Gamma Ray Calibration Report

Serial Number: 89
 Tool Model: M&W
 Performed: Mon Oct 21 15:52:37 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0800 GAPI/cps

CEMENT BOND LOG

Company BECKER OIL CORPORATION
 Well GLEASON #2
 Field SAW LOG CREEK
 County HODGEMAN State KANSAS

Company BECKER OIL CORPORATION
 Well GLEASON #2
 Field SAW LOG CREEK
 County HODGEMAN
 State KANSAS

Location 1000' FSL & 335' FWL
 SEC. 32 TWP. 23S RGE. 21W
 Permanent Datum GROUND LEVEL Elevation 2359
 Log Measured From KELLY BUSHING 10' AGL
 Drilling Measured From KELLY BUSHING
 Other Services Elevation
 K.B. 2369
 D.F.
 G.L. 2359

Date	12-18-2013
Run Number	ONE
Depth Driller	4575
Depth Logger	4555
Bottom Logged Interval	4554
Top Log Interval	3215
Open Hole Size	WATER
Type Fluid	
Density / Viscosity	
Max. Recorded Temp.	
Estimated Cement Top	3415
Time Well Ready	
Time Logger on Bottom	
Equipment Number	52
Location	GREAT BEND
Recorded By	LEE BRETZ
Witnessed By	MR. DOUG BROWN

Borehole Record			Tubing Record				
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625		0	332
Prot. String				
Production String	5.5		0	4572
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.

Comments

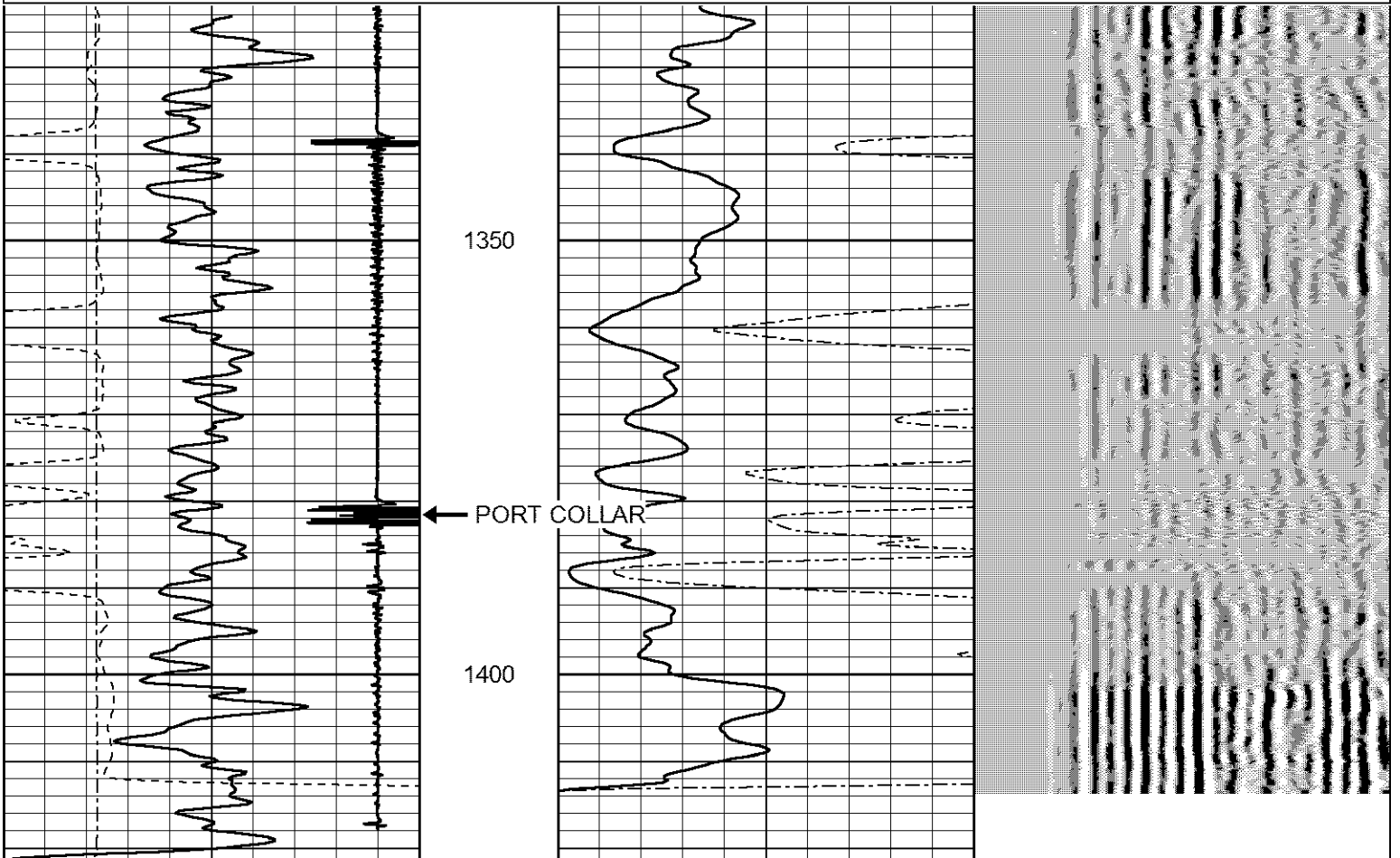
THANK YOU FOR USING LOG TECH OF KANSAS!
 (620)792-2167

DIRECTIONS
 BURDETT, KS
 5 WEST TO RD 233
 11 SOUTH TO RD G
 1 3/4 WEST NORTH INTO

CORRECTED -2' TO OPENHOLE LOG

Database File: gleason.db
 Dataset Pathname: pass5
 Presentation Format: cbl02
 Dataset Creation: Wed Dec 18 09:23:05 2013 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	0	Amplitude (mV)	100	200	VARIABLE DENSITY	1200
0	Gamma Ray (GAPI)	150	0	X5 Amplitude (mV)	20			
320	TT3 (usec)	120						
0	LTEN (lb)	2000						



9	Collar Locator	-1	0	Amplitude (mV)	100	200	VARIABLE DENSITY	1200
0	Gamma Ray (GAPI)	150	0	X5 Amplitude (mV)	20			
320	TT3 (usec)	120						
0	LTEN (lb)	2000						



MAIN PASS

Database File: gleason.db
 Dataset Pathname: pass4
 Presentation Format: cbl02
 Dataset Creation: Wed Dec 18 08:42:09 2013 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	0	Amplitude (mV)	100	200	VARIABLE DENSITY	1200
0	Gamma Ray (GAPI)	150	0	X5 Amplitude (mV)	20			
320	TT3 (usec)	120						
0	LTEN (lb)	2000						

0	Gamma Ray (GAPI)	150
320	TT3 (usec)	120
0	LTEN (lb)	2000

0 X5 Amplitude (mv) 20

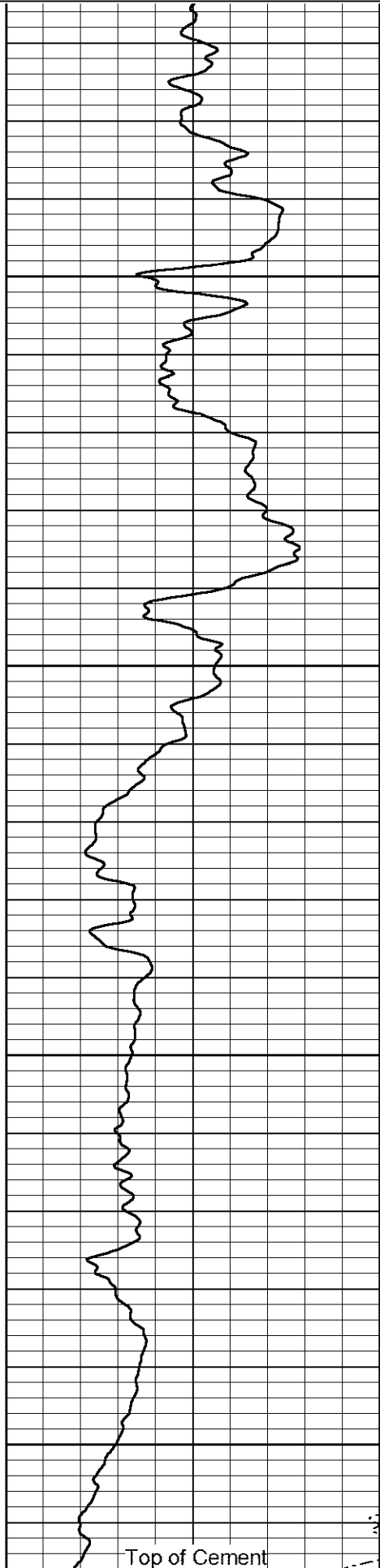


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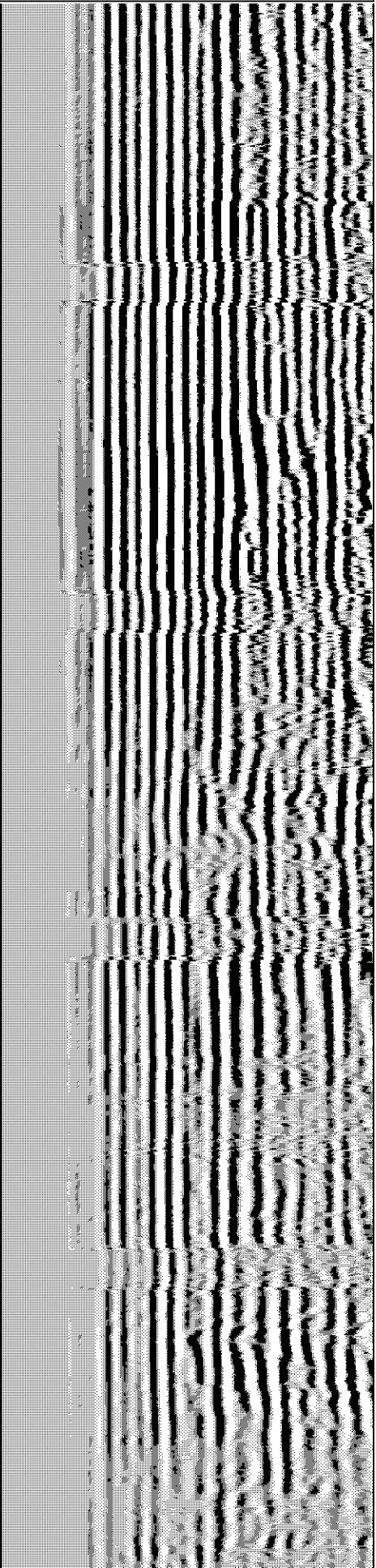
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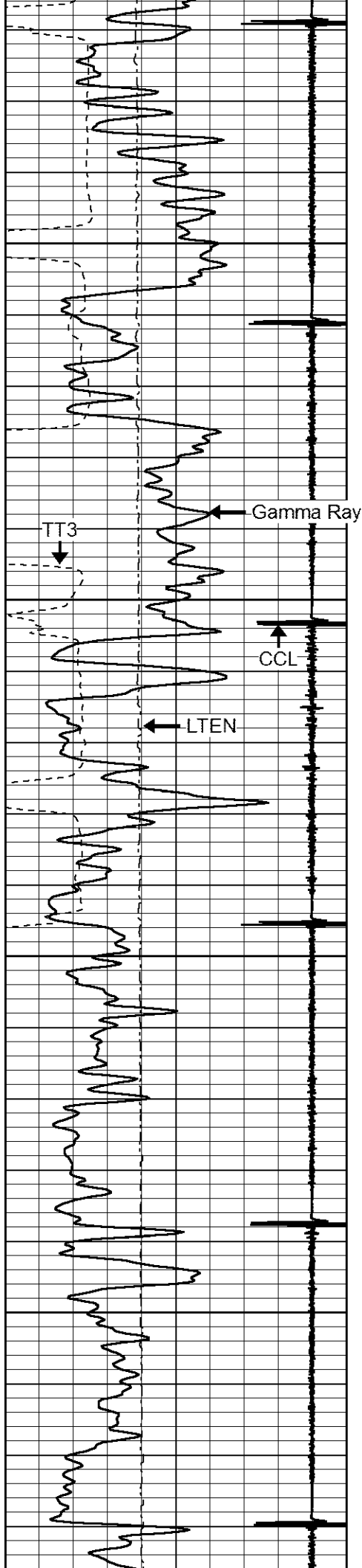
3350

3400



Top of Cement



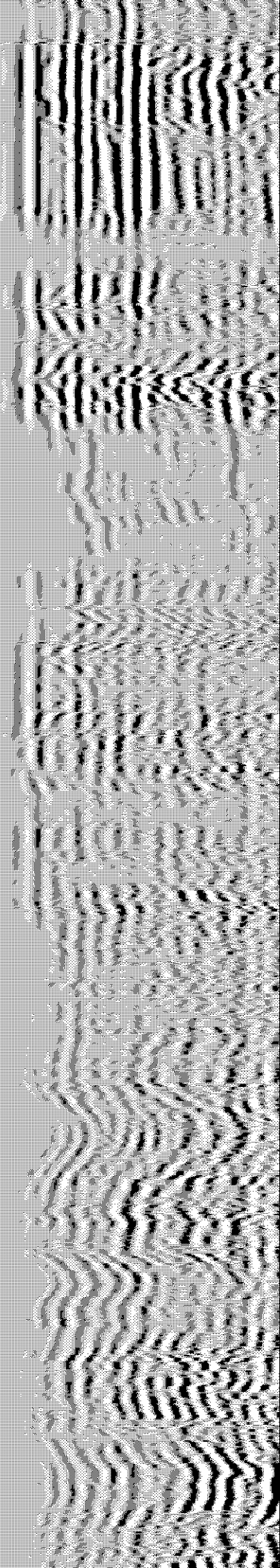
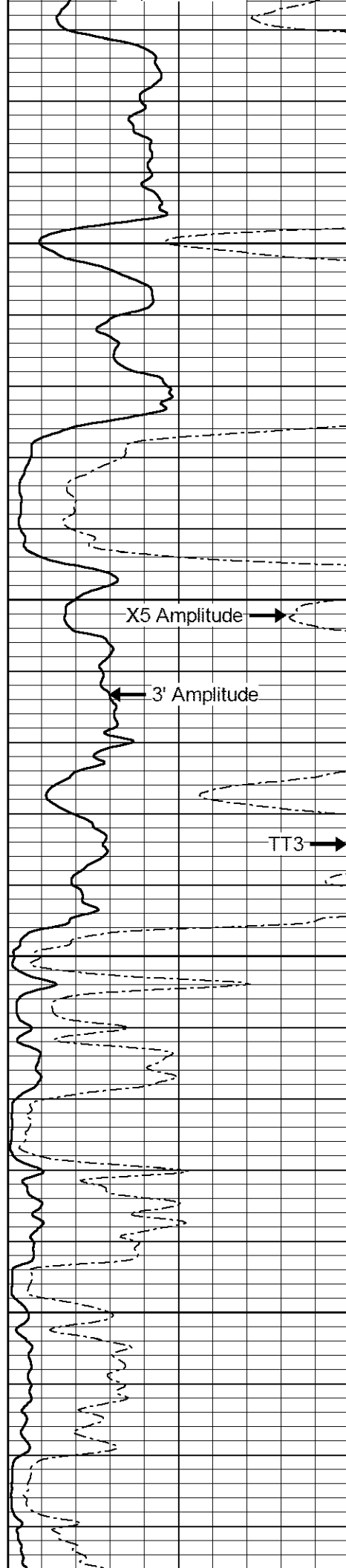


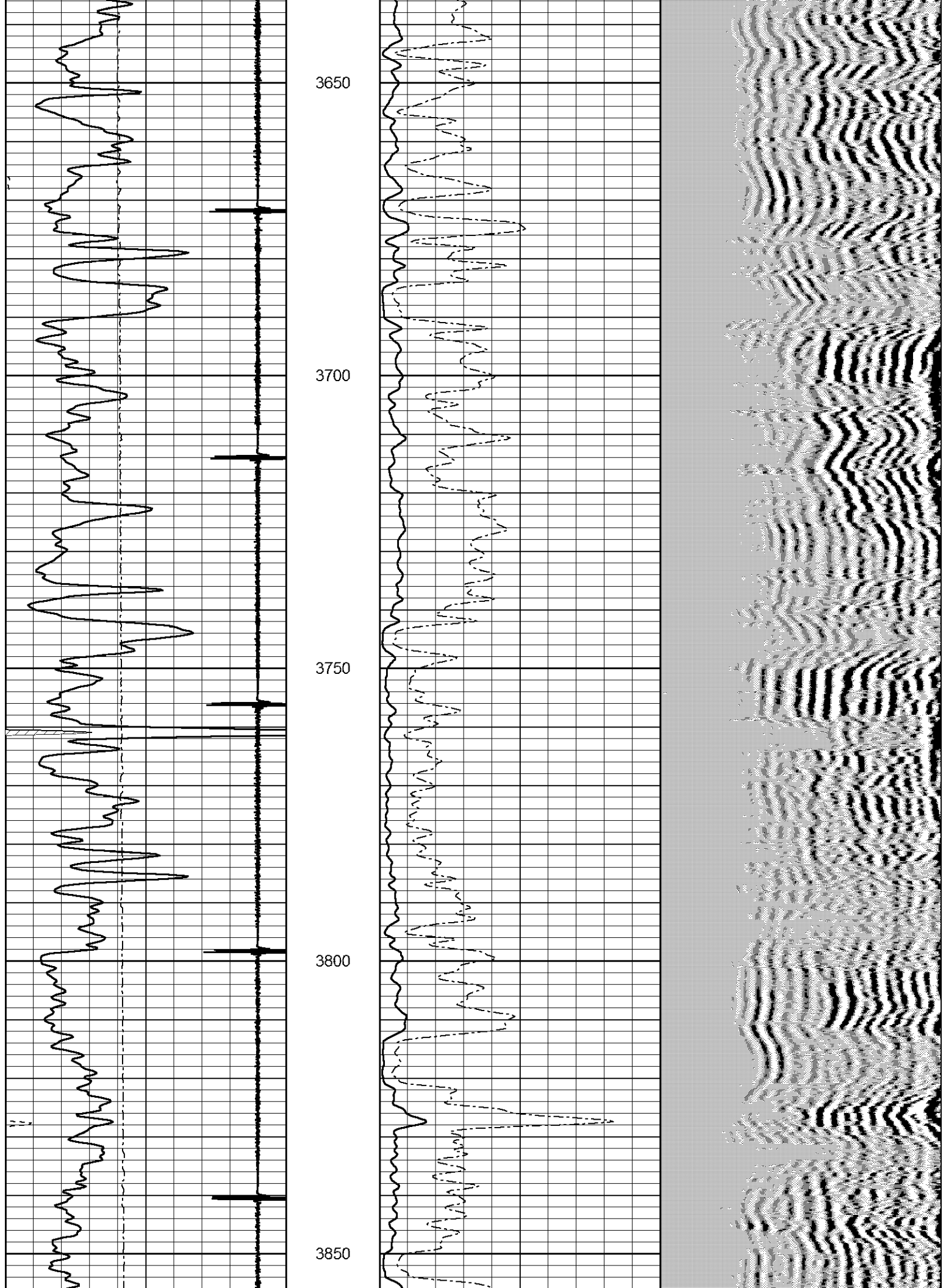
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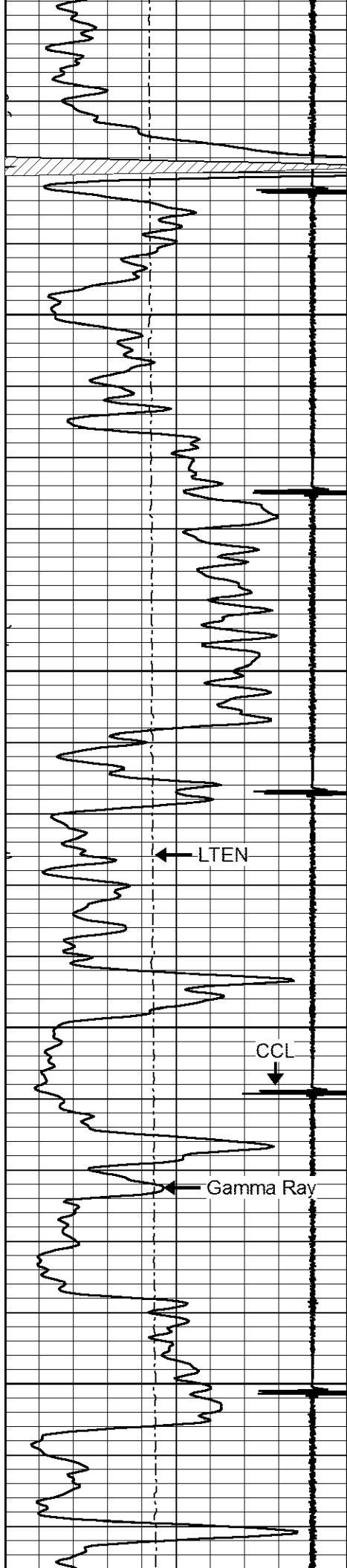
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3550

3600







3900

3950

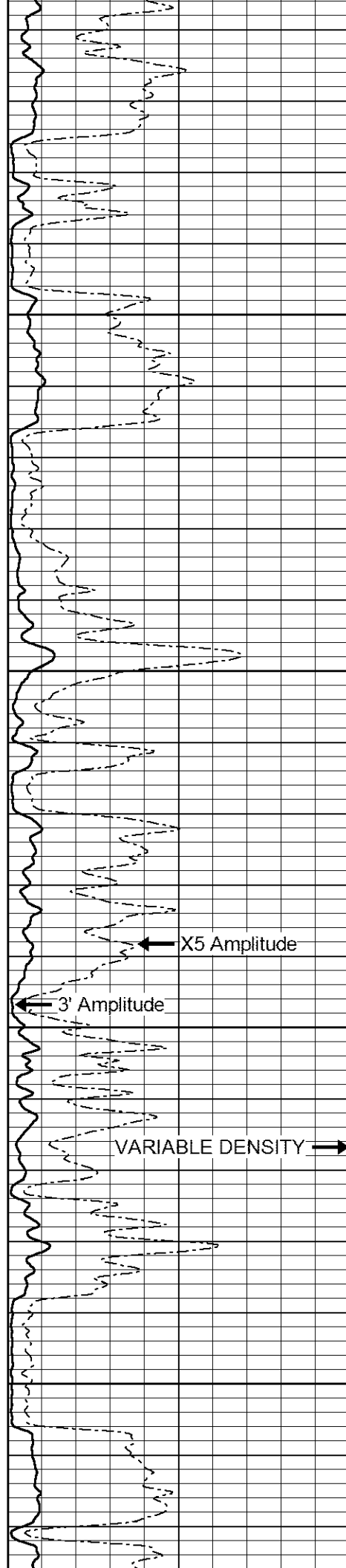
4000

4050

← LTEN

↓ CCL

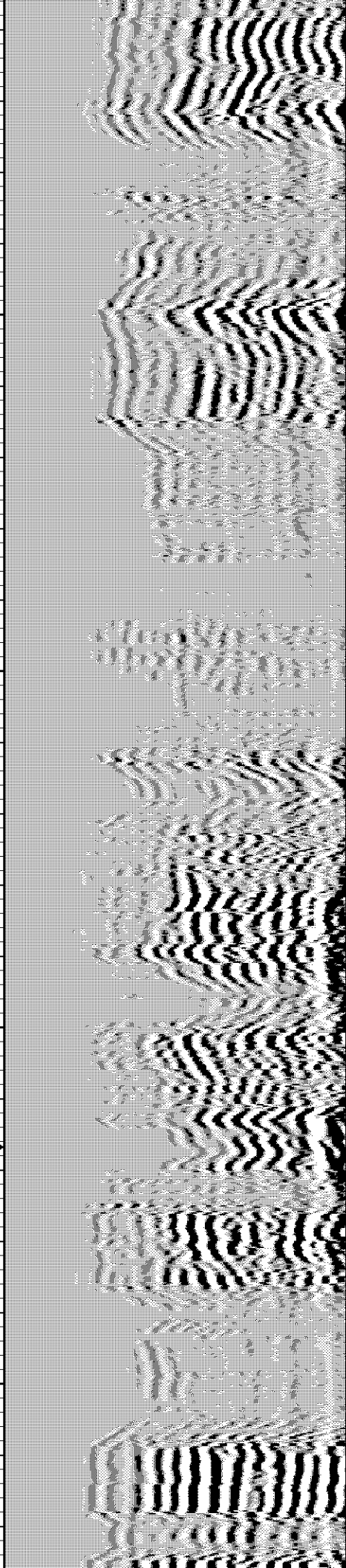
← Gamma Ray

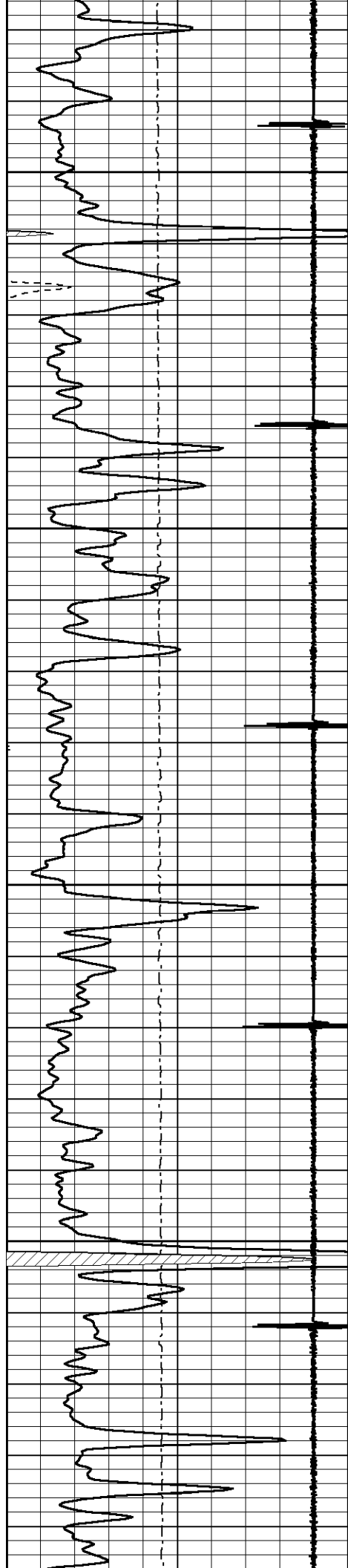


← X5 Amplitude

← 3' Amplitude

VARIABLE DENSITY →



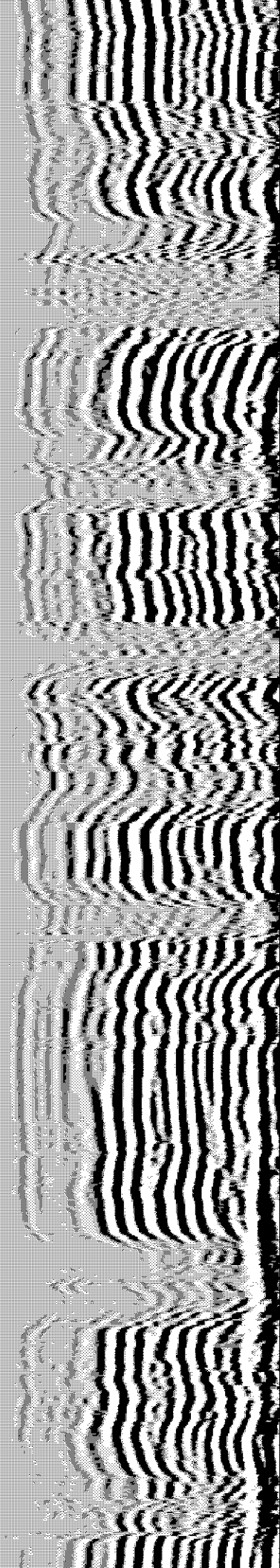
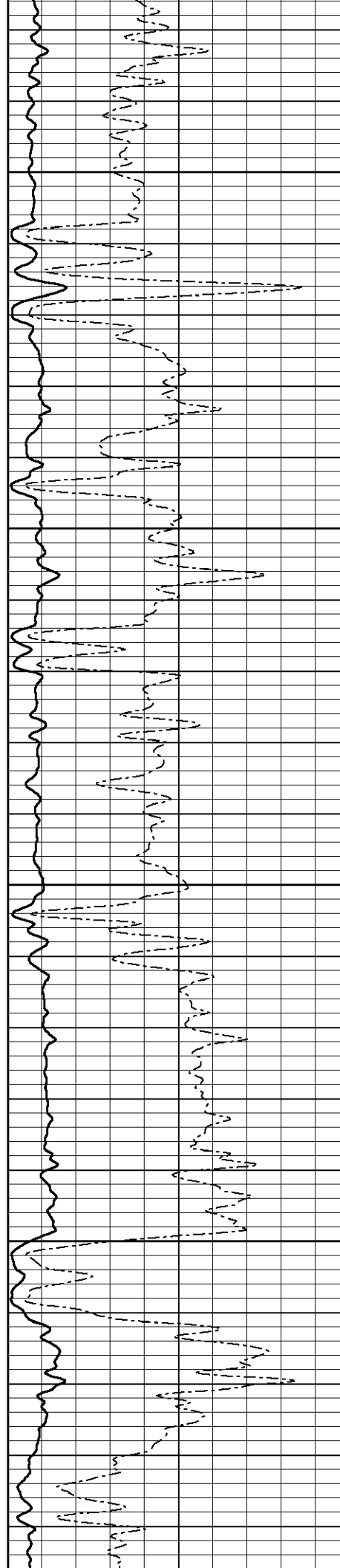


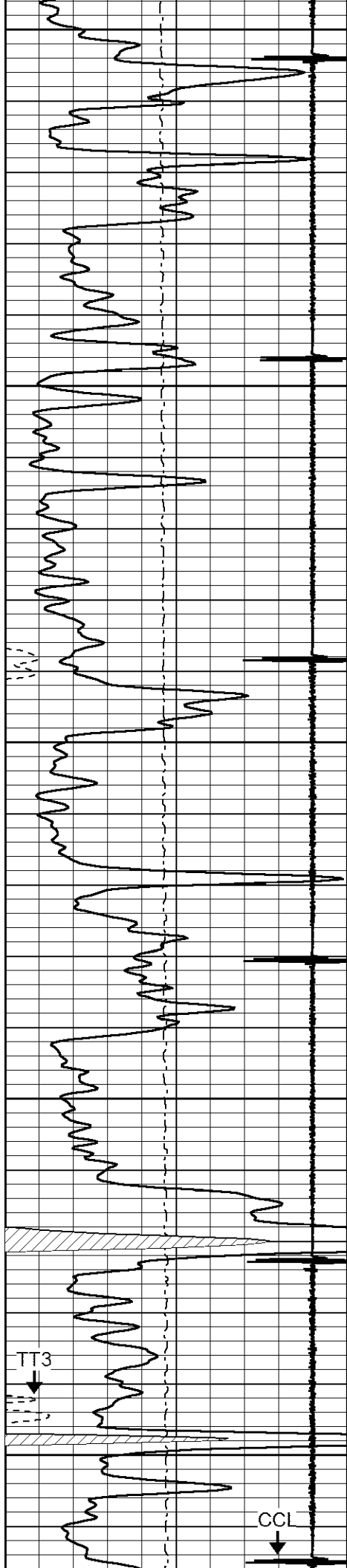
4100

4150

4200

4250





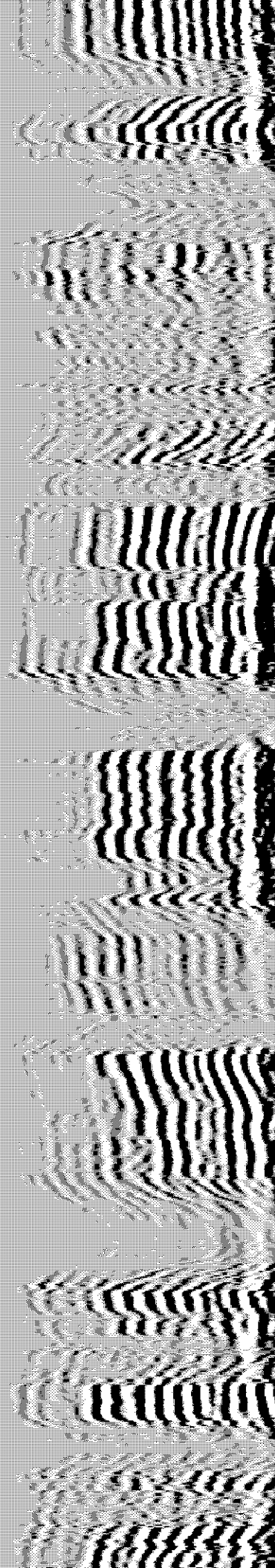
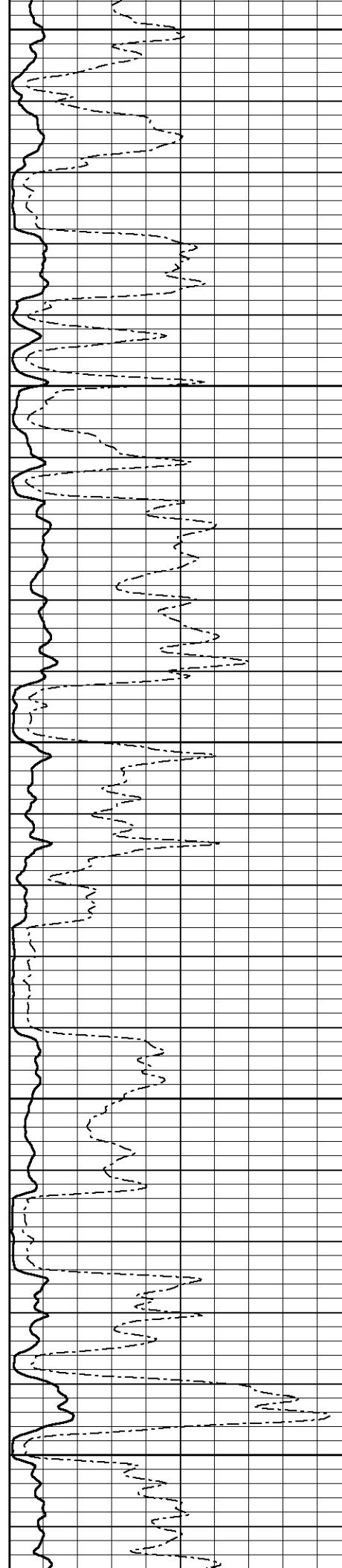
4300

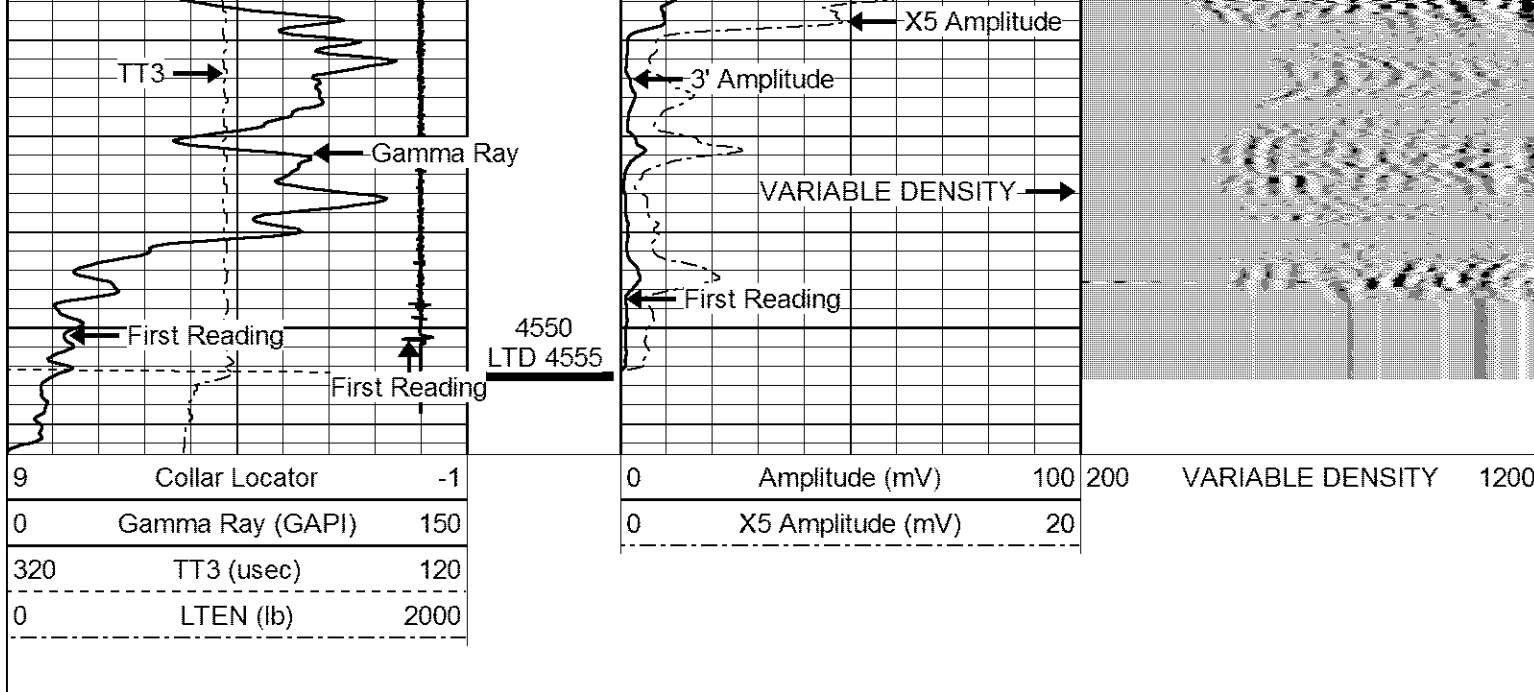
4350

4400

4450

4500

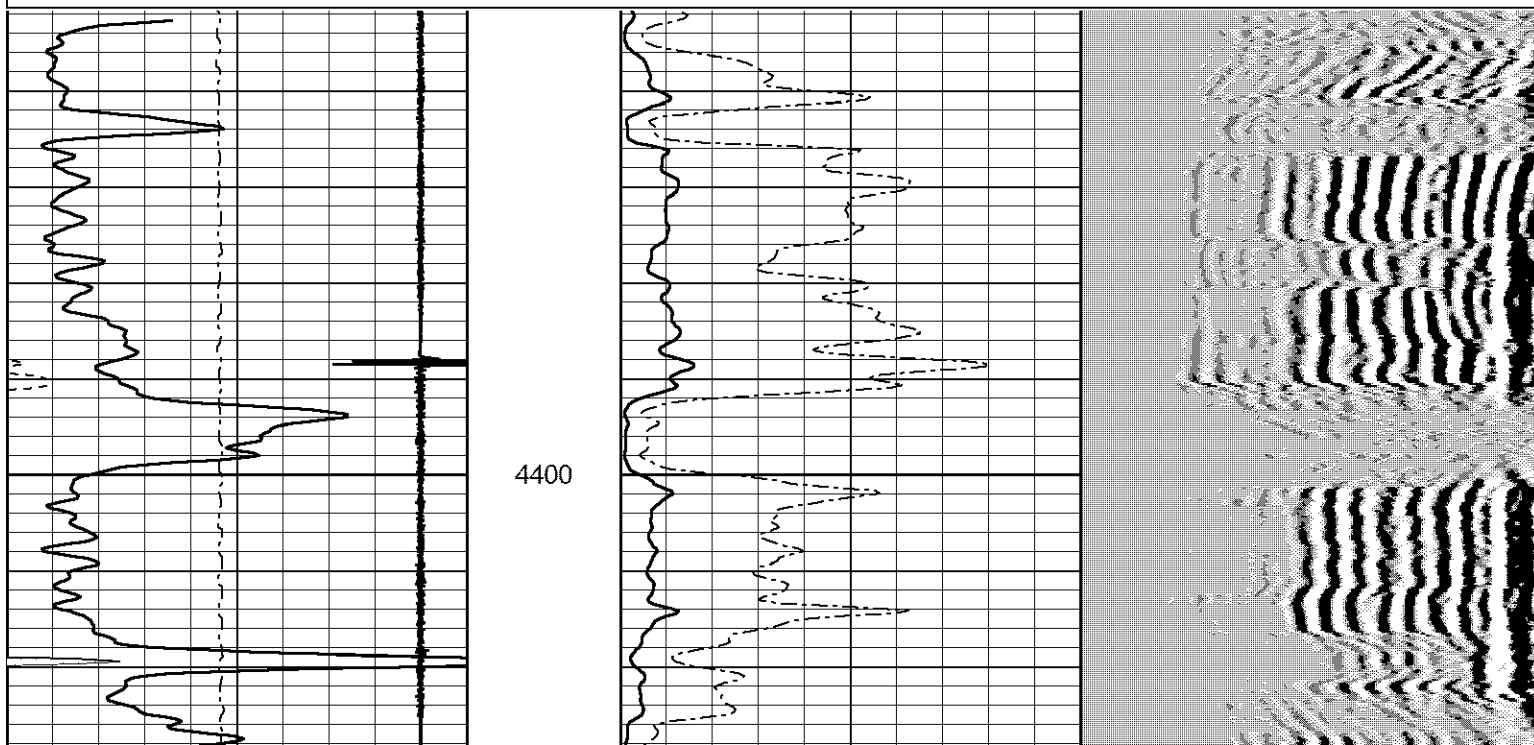
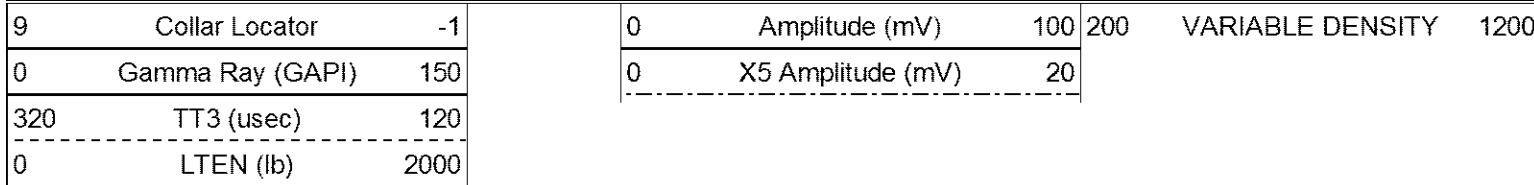




LOG-TECH
of Kansas Inc.
 GREAT BEND, KANSAS

REPEAT SECTION

Database File: gleason.db
 Dataset Pathname: pass3
 Presentation Format: cbl02
 Dataset Creation: Wed Dec 18 08:32:40 2013 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240



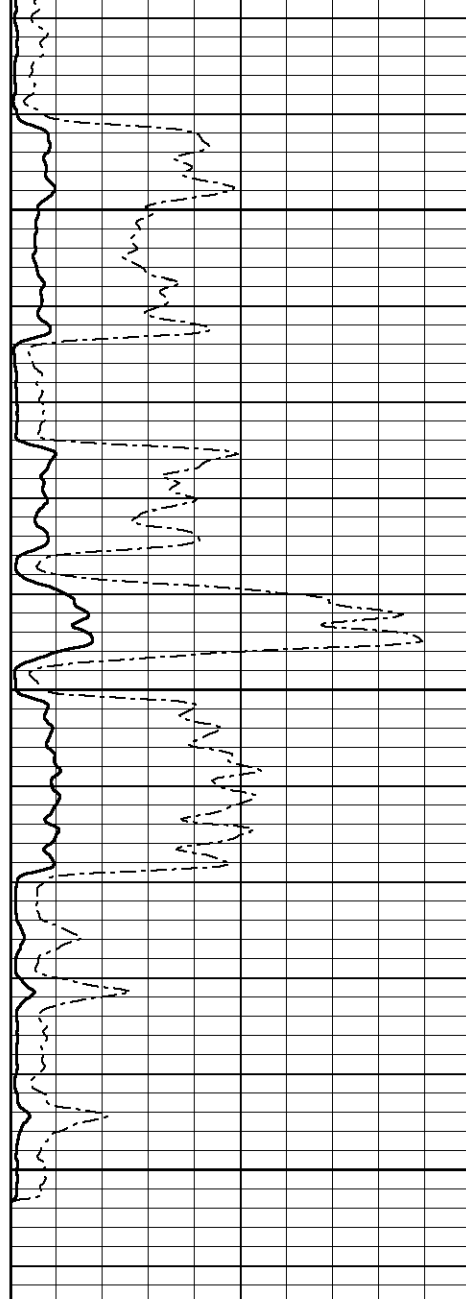


4450

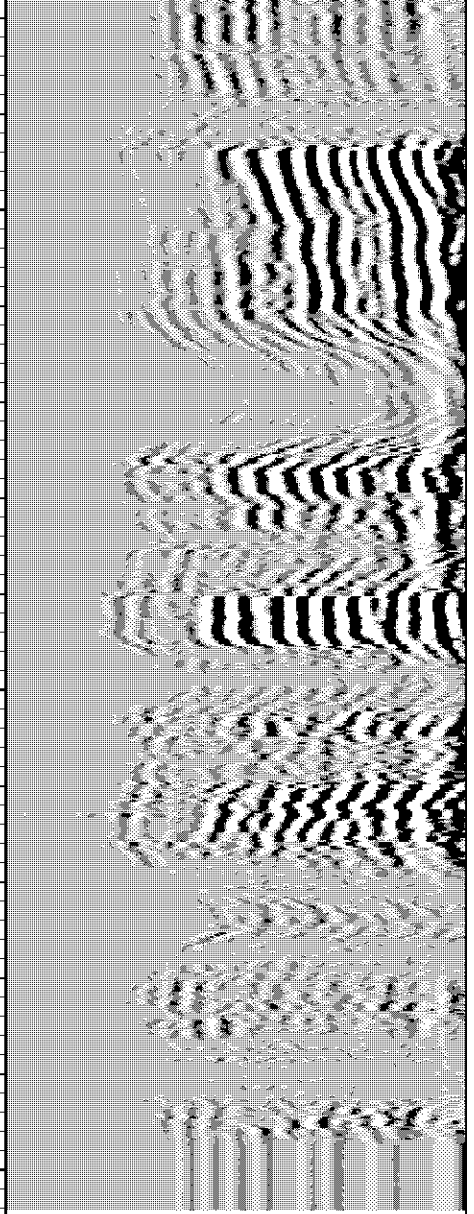
4500

4550

9	Collar Locator	-1
0	Gamma Ray (GAPI)	150
320	TT3 (usec)	120
0	LTEN (lb)	2000



0	Amplitude (mV)	100
0	X5 Amplitude (mV)	20



200 VARIABLE DENSITY 1200