

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	BLAESI 9-6
Doc ID	1374083

Tops

Name	Top	Datum
Anhydrite	2750	1033
Base	2778	1005
Heebner	4109	-326
Lansing	4171	-388
Stark	4436	-653
BKC	4518	-735
Marmaton	4568	-785
Pawnee	4674	-891
Fort Scott	4720	-937
Cherokee	4736	-953
Morrow	4976	-1193
Morrow Sand	4994	-1211
Miss	5180	-1397
RTD	5200	-1417
LTD	5200	-1419

Summary of Changes

Lease Name and Number: BLAESI 9-6

API/Permit #: 15-199-20444-00-00

Doc ID: 1374083

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	09/13/2017	11/27/2017
Date of First or Resumed Production or SWD or Enhr		10/06/2017
Method Of Completion - Perf	No	Yes
Perf_perf1bottom		5002
Perf_perf1top		4994
Perf_shots1		4
Producing Method Pumping	No	Yes
Production Interval #1		4994
Production Interval #3		5002



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1366895
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016

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Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

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New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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NE NW SE SW

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(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

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County: _____

Lease Name: _____ Well #: _____

Field Name: _____

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Elevation: Ground: _____ Kelly Bushing: _____

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If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

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(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____



CHARGE TO: **AMERICAN WARRIOR INC**

ADDRESS:

CITY, STATE, ZIP CODE:

TICKET 30344

PAGE 1 OF 2

SERVICE LOCATIONS: 1. **NESS CITY, KS**

WELL/PROJECT NO.: **9-6** LEASE: **BLAEST** COUNTY/PARISH: **WALLACE** STATE: **Ks** CITY: DATE: **8-11-17** OWNER: **SAME**

TICKET TYPE: SERVICE SALES CONTRACTOR: **DISCOVERY DRILG # 1** RIG NAME/NO.: SHIPPED VIA: **CT** DELIVERED TO: **LOCATION** ORDER NO.:

WELL TYPE: **Oil** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **5 1/2" LONGSTRING** WELL PERMIT NO.: WELL LOCATION: **SW / SHARON SPRINGS, KS**

REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 112	150		ME		5.00	750.00
578		1			PUMP CHARGE - LONGSTRING	1	JOB		5192 FT	1250.00	1250.00
221		1			LEONDO KCL	2		GAL		25.00	50.00
281		1			MUD FLUSH	500		GAL		1.25	625.00
402		1			CENTRALIZERS	8		EA	5 1/2"	60.00	480.00
403		1			CEMENT BASKETS	2		EA		250.00	500.00
404		1			PORT COLLAR	1		EA	2729 FT	2500.00	2500.00
406		1			LATCH DOWN PLUG - BAFFLE	1		EA		225.00	225.00
407		1			INSERT FLOAT SHOE w/ AUTO FILL	1		EA		300.00	300.00

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 *[Signature]*
 DATE SIGNED: **8-11-17** TIME SIGNED: **2200**
 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	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#1	6680.00
WE UNDERSTOOD AND MET YOUR NEEDS?				#2	5834.13
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					12514.13
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				<i>Wallace</i>	584.25
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	13098.38
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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

SWIFT OPERATOR: **WAYNE WILSON** APPROVAL:

Thank You!



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

TICKET CONTINUATION

TICKET No. 30344

CUSTOMER AMERICAN WARRIOR INC. WELL BIGGEST 9-6 DATE 8-11-17 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT		
		LOC	ACCT	DF										
325		1				STANDARD CEMENT	EA-2	200	SKS		12.25	2450.00		
276		1				FLOCELE		50	UBS		2.25	112.50		
283		1				SALT		1000	UBS		.20	200.00		
284		1				CALSEAL		9	SKS	900	UBS	30.00	270.00	
292		1				HALD-322		150	UBS		8.00	1200.00		
290		1				D-ADR		3	GAL		42.00	126.00		
581		1				SERVICE CHARGE				CUBIC FEET	200	1.50	300.00	
583		1				MILEAGE CHARGE	TOTAL WEIGHT	20900	LOADED MILES	150	TON MILES	1567.50	.75	1175.63

CONTINUATION TOTAL 5834.13

JOB LOG

SWIFT Services, Inc.

DATE
8-11-17

PAGE NO.
1

CUSTOMER **AMERICAN WARRIOR INC** WELL NO. **9-6** LEASE **BLAEST** JOB TYPE **5 1/2" LONGSTRING** TICKET NO. **30344**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2200							ON LOCATION
	2315							START 5 1/2" CASING IN WELL
								TD-5200 SET = 5192' TP-5192 5 1/2" #15.5 ST-24' CENTRALIZERS-1,3,5,7,9,11,13,58 CMT BSRS-1,59 PORT COLLAR = 2729' TOP JT #59
	0115							DROP BALL - CIRCULATE
	0140	6	12		✓		400	PUMP 500 GAL MUDFLUSH
	0142	6	20		✓		400	PUMP 200 BBLs KCL FLUSH
	0155		7-5					PLUG RH (30SKS) MH (20SKS)
	0205	4 1/2	40		✓		200	MAX CEMENT 150 SKS EA2 = 15.1 PPG
	0215							WASH OUT PUMP - LINES
	0215							RELEASE CATCH DOWN PLUG
	0225	7	0		✓			DISPLACE PLUG
		7	120				700	
	0242	5	123				1500	PLUG DOWN - PSE UP CATCH IN PLUG
	0245							OK RELEASE PSE - HELD
								WASH TRUCK
	0400							JOB COMPLETE

THANK YOU
WAYNE, PRESTON, KERRY



CHARGE TO: American Warrior
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 30760

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Ness City KS WELL/PROJECT NO. # 9-6 LEASE Blacsi COUNTY/PARISH Wallace STATE KS CITY Sharon Springs DATE 9-7-17 OWNER Same
 2. TICKET TYPE SERVICE SALES CONTRACTOR Co Tools RIG NAME/NO. # 1 SHIPPED VIA CT DELIVERED TO Location ORDER NO.
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement 5 1/2" Port Collar WELL PERMIT NO. WELL LOCATION Sharon Springs - 9w, 8g, W into
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE			150	m.	5 ⁰⁰	750 ⁰⁰
576 D		1			Pump Charge - Port Collar			1	job	1250 ⁰⁰	1250 ⁰⁰
330		1			SMD Cement			325	skts	15 ⁷⁵	5118 ⁷⁵
276		1			Flocek		1/4	75	lbs	2 ²⁵	168 ²⁵
290		1			D-Air			3	gal	42 ⁰⁰	126 ⁰⁰
288		1			Sand (20/40)			2	skts	22 ⁰⁰	44 ⁰⁰
105		1			Port Collar Tool Rental		5 1/2	1	in job	275 ⁰⁰	275 ⁰⁰
581		1			Service Charge Cement			325	skts	1 ⁵⁰	487 ⁵⁰
583		1			Drayage			32325	lbs	2424 ⁷⁵	1818 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
 DATE SIGNED 9-7-17 TIME SIGNED 1300 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	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				10,038 ⁰⁰
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

TAX 6.5% 372.61
 TOTAL 10410.61

JOB LOG

SWIFT Services, Inc.

DATE 9-7-17 PAGE NO. 1

CUSTOMER American Warrior WELL NO. # 9-6 LEASE Blassi JOB TYPE Port Cellar TICKET NO. # 30760

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							on location 2 3/8 x 5 1/2"
								RBP - 2866' P.C. - 2730'
	0915	4 1/2	70	✓		300		Load Hole
	0930	∅	∅	✓		1000		Test Plug *Hold*
	0940	∅	10 1/2	✓		100		Spot 2 sks sand let fall
	1040							Open P.C.
	1050	3 1/2	5	✓		500		Injection Rate
	1055	3 1/2	180	✓		500		mix 325 sks SMD 1/4" flo @ 11.2 ppg circulate Cement to Pit *10 sks*
	1150	3 1/2	10	✓		700		Close Displace Cement
	1200	∅	∅	✓		1000		Close P.C. *Hold*
								Run 5 JTs
	1215	2 1/2	40	✓		300		Reverse cement/sand clean Latch onto Plug
								wash up trucks
	1300							Job Complete

Thank You
Dave Preston Isaac



CHARGE TO: American Warrior

ADDRESS

CITY, STATE, ZIP CODE

TICKET 30571

PAGE 1 OF 1

SERVICE LOCATIONS 1. Wichita KS WELL/PROJECT NO. 9-6 LEASE Blaesi COUNTY/PARISH Wallace STATE KS CITY Sharon Springs DATE 3 AUG 17 OWNER

2. TICKET TYPE SERVICE SALES CONTRACTOR Discovery RIG NAME/NO. 1 SHIPPED VIA CT DELIVERED TO location ORDER NO.

3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement surface pipe WELL PERMIT NO. WELL LOCATION 6-15-41

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	150	mi			5.00	750.00
5765		1			Pump Charge	1	ea			800.00	800.00
325		1			Standard cement	225	sk			12.125	2756.25
279		1			Bentonite gel	2	%	4	sk	25.00	100.00
278		1			Calcium Chloride	3	%	500	10sk	40.00	400.00
290		1			D-AIR	1	gal			42.00	42.00
581		1			service charge	225	sk			1.50	337.50
		1			Drayage	22050	lb	1654	TM	0.75	12405

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X
DATE SIGNED TIME SIGNED A.M. P.M. 1:00

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				6426.25
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Wallace TAX 214.39
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL 16640.64
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

JOB LOG

SWIFT Services, Inc.

DATE 3 AUG 17 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 9-6 LEASE Blaesi JOB TYPE cement surface pipe TICKET NO. 30571

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								225 sk standard cement 2%gd 3%cc 8 5/8" x 23# casing 9 joints 366'
	1330							on loc TRK 114
	1453							start 8 5/8" x 23# casing in well
	1540							circulate well
	1555	4	57			+	100	mix STD 2% 3% 225 sk @ 14.7 ppg
	1612	3					100	Displace w/ H ₂ O → cement to surface ←
	1615	3	22				100	Plug down shot in 8 5/8"
	1625							wash truck Rack up 225 sk mixed 15 top it
	1700							job complete Thanks Blaine, Flint & Isaac



American Warrior, Inc.

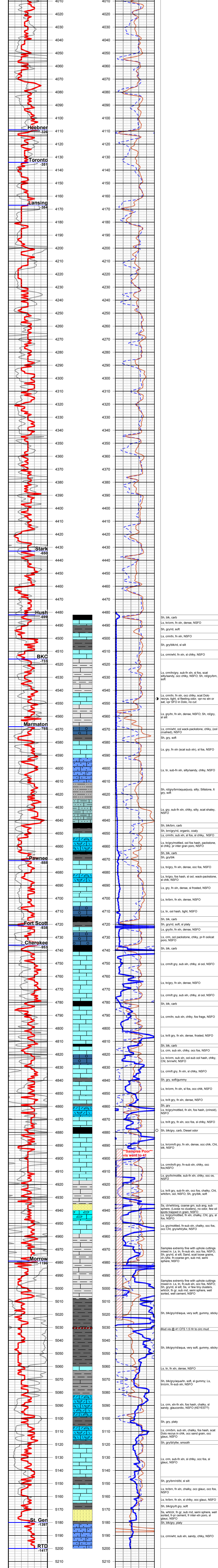
Luke Thompson - Geologist
 3118 Cummings Rd
 Garden City, KS 67846
 (785) 493-1254 cell
 (620) 275-5067 office

WELL Blaesi #9-6	API # 15-199-20444-00-00	LOCATION: Wallace County, KS 335' FSL & 1800' FEL 6-15s-41w	Elevation KB: 3783' GL: 3775' Measurements from KB
----------------------------	------------------------------------	--	--

Lithology Key 		Curve Data: Left Column: ROP (min/foot) Gamma Ray Right Column: Gas (units) Density Porosity Neutron Porosity	Geologist: Luke Thompson (American Warrior, Inc.) Drilling Contractor: Discovery Rig #1 Samples from: 4500' - RTD Drilling time from: 4000' - TD Geological Supervision from: 4500' - TD Correlating Log: Blaesi #4-6 (6-15s-41w) Surface Casing: 366' 8 5/8" 23# Production Casing: 5193' 5 1/2" 15.5# RTD: 5200' LTD: 5202'
--------------------------	--	---	--

Formation	Top	Log	Datum	Top	Sample	Datum	Correlating Well	Structural Comparison
Heebner	4109	-326		4109	-326		+2	
Toronto	4136	-353		4134	-351		-1	
Lansing	4171	-388		4167	-384		-3	
Stark	4436	-653		4433	-650		-1	
Hush	4482	-699		4482	-699		-1	
BKC	4518	-735		4516	-733		-3	
Marmaton	4568	-785		4568	-785		-3	
Pawnee	4674	-891		4671	-888		-12	
Fort Scott	4720	-937		4721	-938		-13	
Cherokee	4736	-953		4736	-953		-15	
Morrow	4976	-1193		4979	-1196		-25	
Morrow Sand	4994	-1211		Not Called			-25	
St. Gen	5180	-1397		5180	-1397		-41	

Status: Oil



****Samples Poor**
 vis went to 41**

Sh, blk, carb
 Ls, tn/crm, fn xln, dense, NSFO
 Sh, gry/rd, soft
 Ls, crm/tn, fn xln, NSFO
 Sh, gry/blk/rd, sl silt
 Ls, crm/wht, fn xln, sl chiky, NSFO
 Ls, crm/tn/gry, sub-fn xln, sl fos, scat silty/sandy, occ chky, NSFO; Sh, rd/gry/brn, soft
 Ls, crm/tn, fn xln, occ chiky, scat Dolo recrys, light, sl fleeting odor, vpr-no stn or sat, vpr SFO in Dolo, no cut
 Ls, gry/tn, fn xln, dense, NSFO; Sh, rd/gry, sl silt
 Ls, crm/wht, ool wack-packstone, chiky, (ool crushed), NSFO
 Sh, gry, soft
 Ls, gry, fn xln (scat sub xln), sl fos, NSFO
 Ls, tn, sub-fn xln, silty/sandy, chiky, NSFO
 Sh, rd/gry/brn/aqua/purp, silty; Siltstone, lt gry, soft
 Ls, gry, sub-fn xln, chiky, silty, scat shaley, NSFO
 Sh, blk/brn, carb
 Sh, brn/gry/rd, organic, coaly
 Ls, crm/tn, sub xln, sl fos, sl chiky, NSFO
 Ls, tn/gry/mottled, ool fos hash, packstone, sl chiky, pr inter gran poro, NSFO
 Sh, blk, carb
 Sh, gry/blk
 Ls, tn/gry, fn xln, dense, occ fos, NSFO
 Ls, tn/gry, fos hash, sl ool, wack-packstone, sl chik, NSFO
 Ls, gry, fn xln, dense, sl frosted, NSFO
 Ls, tn/brn, fn xln, dense, NSFO
 Ls, tn, ool hash, light, NSFO
 Sh, blk, carb
 Sh, gry/rd, soft, sl platy
 Ls, gry/tn, fn xln, dense, NSFO
 Ls, crm, ool packstone, chiky, pr-fr oolicat poro, NSFO
 Sh, blk, carb
 Ls, crm/lt gry, sub xln, chiky, sl ool, NSFO
 Ls, tn/gry, fn xln, dense, NSFO
 Ls, crm/lt gry, sub xln, chiky, sl ool, NSFO
 Sh, blk, carb
 Ls, crm/tn, sub xln, chiky, fos frags, NSFO
 Ls, tn/lt gry, fn xln, dense, frosted, NSFO
 Sh, blk, carb
 Ls, crm, sub xln, chiky, occ fos, NSFO
 Ls, tn/crm, sub xln, ool-sub ool hash, chiky, Cht, brn/wht, NSFO
 Ls, crm/lt gry, fn xln, sl chiky, NSFO
 Sh, gry, soft/gummy
 Ls, tn/crm, fn xln, sl fos, occ chik, NSFO
 Ls, tn/lt gry, fn xln, dense, NSFO
 Sh, gry
 Ls, tn/gry/mottled, fn xln, fos hash, (crinoid), NSFO
 Ls, tn/lt gry, fn xln, occ fos, sl chiky, NSFO
 Sh, blk/gry, carb, Diesel odor
 Ls, tn/crm/lt gry, fn xln, dense, occ chik, Cht, blk, NSFO
 Ls, crm/tn/lt gry, fn-sub xln, chiky, occ fos, NSFO
 Ls, tn/gry/tn/mottle, sub-fn xln, chiky, occ os, NSFO
 Ls, tn/lt gry, sub-fn xln, occ fos, chalky, Cht, wht/brn, ool, NSFO; Sh, gry/blk, soft
 Ss, clr/wht/org, coarse grn, sub ang, sub sphere, (Loose no clusters), no odor, few oil spots trapped in grain, NSFO
 Ls, tn/gry/mottled, fn xln, chalky, Cht, gry, sl fos, NSFO
 Ls, gry/mottled, fn-sub xln, chalky, occ fos, occ Cht, gry/wht/yllw, NSFO
 Samples extremely fine with uphole cuttings mixed in. Ls, tn, fn-sub xln, occ fos, NSFO; Sh, gry/rd, sl silt; Sand, scat loose grains, clr/yllw, fn-coarse grn, sub rnd, semi sphere, NSFO
 Samples extremely fine with uphole cuttings mixed in. Ls, tn, fn-sub xln, occ fos, NSFO; Sh, gry/rd, sl silt; Ss, v few tiny clusters, wht/cir, fn gr, sub rnd, semi sphere, well sorted, well cement, fr inter-xln poro, sl glauc, NSFO
 Sh, blk/gry, platy
 Ls, crm/wht, sub xln, sandy, chiky, NSFO
 Mud vis @ 41 CFS 1.5 Hr to circ mud
 Sh, blk/gry/rd/aqua, very soft, gummy, sticky
 Ls, tn, fn xln, dense, NSFO
 Sh, blk/gry/aqua/tn, soft, sl gummy; Ls, tn/crm, fn-sub xln, NSFO
 Ls, crm, xln-fn xln, fos hash, chalky, sl sandy, glauconitic, NSFO (KEYES??)
 Sh, gry, platy
 Ls, crm/brn, sub xln, chalky, fos hash, scat Dolo recrys in chik, occ sand grain, occ glauc, NSFO
 Sh, gry/blk/yllw, smooth
 Ls, crm, sub-fn xln, sl chiky, occ fos, sl glauc, NSFO
 Sh, gry/brn/rd/bl, sl silt
 Ls, tn/brn, fn xln, chalky, occ glauc, occ fos, NSFO
 Ls, tn/brn, fn xln, sl chiky, occ glauc, NSFO
 Ss, wht/cir, fn gr, sub rnd, semi sphere, well sorted, fr-cement, fr inter-xln poro, sl glauc, NSFO
 Sh, blk/gry, platy
 Ls, crm/wht, sub xln, sandy, chiky, NSFO

Geological Report

American Warrior, Inc.

Blaesi #9-6

335' FSL & 1800' FEL

Sec 6, T15s, R41w

Wallace County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Blaesi #9-6
335' FSL & 1800' FEL
Sec. 6, T15s, R41w
Wallace County, Kansas
API # 15-199-20444-00-00

Drilling Contractor: Discovery Drilling Rig #1

Geologist: Luke Thompson

Spud Date: August 3, 2017

Completion Date: August 11, 2017

Elevation 3775' G.L.
3783' K.B.

Directions: From the North side of Sharon Springs, KS at the intersection of Hwy. 40 & Hwy. 27. – Now go 8.8 miles West on Hwy. 40 – Now go 7.7 miles South on Rd. Wa S-9 to Field Rd. – Now go approx. 0.3 mile West on Field Rd. (trail) to ingress stake N into at existing lease Rd.

Casing: 366' 8 5/8" #23 Surface Casing
5193' 5 1/2" #15.5 Production Casing

Samples: 4500' to RTD 10' Wet & Dry

Drilling Time: 4000' to RTD

Electric Logs: Pioneer Energy Services "D. Schmidt"
Stack Micro

Drillstem Tests: no tests

Problems: none encountered

Formation Tops

Blaesi #9-6

Sec. 6, T15s, R41w

335' FSL & 1800' FEL

Anhydrite	2750' +1033
Base	2778' +1005
Heebner	4109' -326
Lansing	4171' -388
Stark	4436' -653
BKC	4518' -735
Marmaton	4568' -785
Pawnee	4674' -891
Fort Scott	4720' -937
Cherokee	4736' -953
Morrow	4976' -1193
Morrow Sand	4994' -1211
Miss	5180' -1397
RTD	5200' -1417
LTD	5202' -1419

Sample Zone Descriptions

Morrow Sand (4995', -1212): No DST

Samples very fine and poor due to low mud viscosity, with many up-hole cuttings included. Sandstone (very few clusters), white/clear, fine grained, sub-round, semi-spherical, well sorted, well cement, fair to good inter-crystalline porosity, no odor, no show of free oil. Gas 450 units hotwire.

Structural Comparison

	American Warrior, Inc. Blaesi #9-6 Sec. 6, T15s, R41w 335' FSL & 1800' FEL		American Warrior, Inc. Blaesi #4-6 Sec. 6, T15s, R41w 335' FSL & 1112' FEL		Quinque Operating Co. Great Bend Trust #1 Sec. 7, T15s, R41w 335' FNL & 1760' FEL
Formation					
Heebner	4109' -326	2	4108' -328	+1	4106' -327
Lansing	4171' -388	-3	4165' -385	-1	4166' -387
Stark	4436' -653	-1	4432' -652	+2	4434' -655
BKC	4518' -735	-3	4512' -732	0	4514' -735
Marmaton	4568' -785	-3	4562' -782	0	4564' -785
Pawnee	4674' -891	-12	4659' -879	-1	4669' -890
Fort Scott	4720' -937	-13	4704' -924	0	4716' -937
Cherokee	4736' -953	-15	4718' -938	0	4732' -953
Morrow	4976' -1193	-25	4948' -1168	-2	4970' -1191
Morrow Sd	4994' -1211	-25	4966' -1186	-4	4986' -1207
Miss	5180' -1397	-41	5136' -1356	-54	5122' -1343

Summary

The location for the Blaesi #9-6 well was found via 3-D seismic survey. The new well ran structurally as expected. No drill stem tests were conducted. After all the gathered data had been examined, the decision was made to run 5 ½" production casing to further evaluate the Blaesi #9-6 well.

Perforations

Primary: Morrow (4994' – 5002') not tested

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.



DUAL INDUCTION LOG

Company AMERICAN WARRIOR, INC.
 Well BLAESI #9-6
 Field UNKNOWN
 County WALLACE
 State KANSAS

Company AMERICAN WARRIOR, INC.
 Well BLAESI #9-6
 Field UNKNOWN
 County WALLACE
 State KANSAS

Location: API #: 15-199-20444-00-00
 335' FSL & 1800' FEL
 SEC 6 TWP 15S RGE 41W
 Permanent Datum GROUND LEVEL Elevation 3775'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services
 CNL/CDL
 MEL
 Elevation
 K.B. 3783'
 D.F. N/A
 G.L. 3775'

Date	8/11/2017
Run Number	ONE
Depth Driller	5200'
Depth Logger	5202'
Bottom Logged Interval	5201'
Top Log Interval	350'
Casing Driller	8.625" @ 366'
Casing Logger	364'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	5000
Density / Viscosity	9.4 58
pH / Fluid Loss	9.5 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.60 @ 80
Rmt @ Meas. Temp	0.45 @ 80
Rmc @ Meas. Temp	0.81 @ 80
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.38 @ 128
Operating Rig Time	4 HOURS
Max Rec. Temp. F	128
Equipment Number	91
Location	HAYS
Recorded By	D. SCHMIDT
Witnessed By	LUKE THOMPSON

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

SHARON SPRINGS,
 9 WEST TO 9 RD, 8 SOUTH,
 WEST AND NORTH TO LOCATION

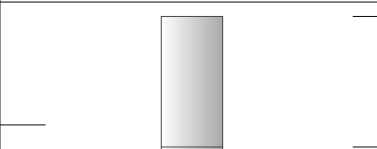
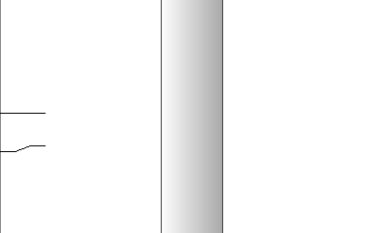
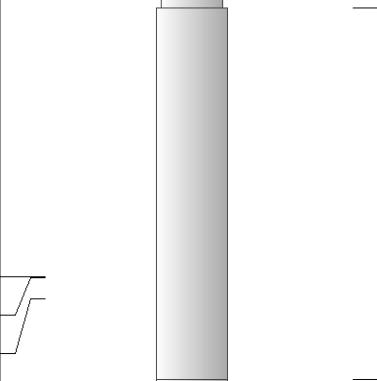
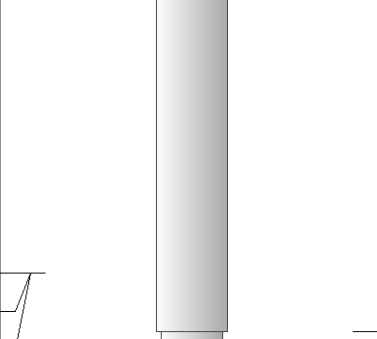
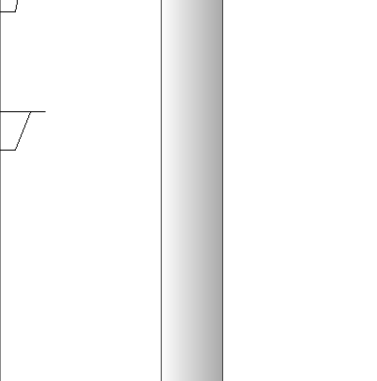
Log Measured From: KELLY BUSHING 8 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew Engineer: D. SCHMIDT Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: LUKE THOMPSON Secondary Witness: Secondary Witness: Secondary Witness:
--	--

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	500	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	5202	128	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (90-1031)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

			DIL-M&W (PSI 91)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					
Dataset:			american warrior_blaesi_9-6.db: field/well/STKML/pass3.7			
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Total weight:			685.00 lb			
O.D.:			4.00 in			

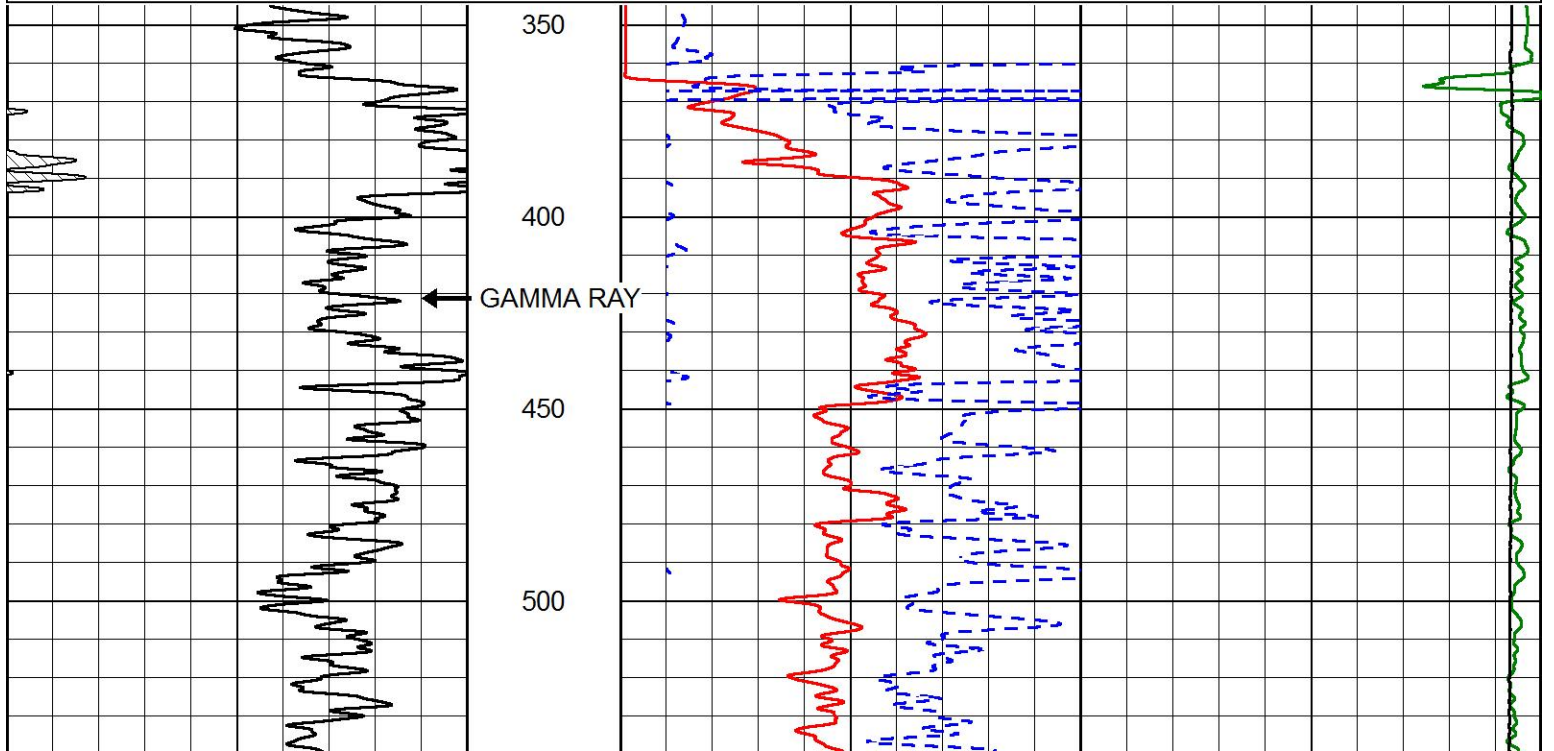


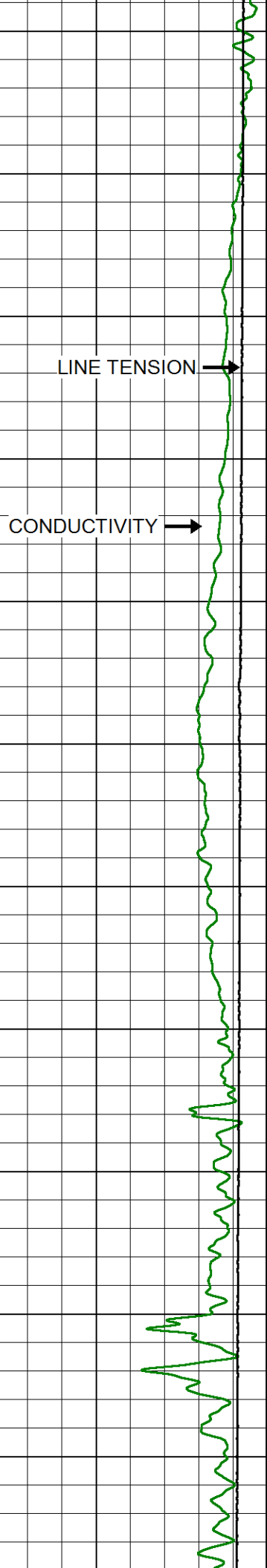
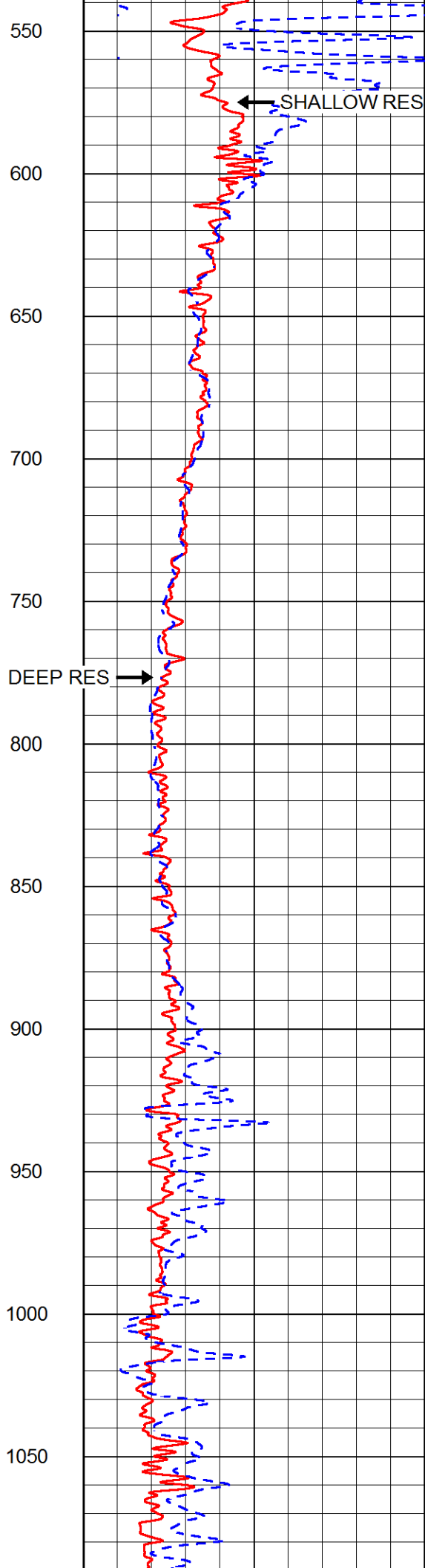
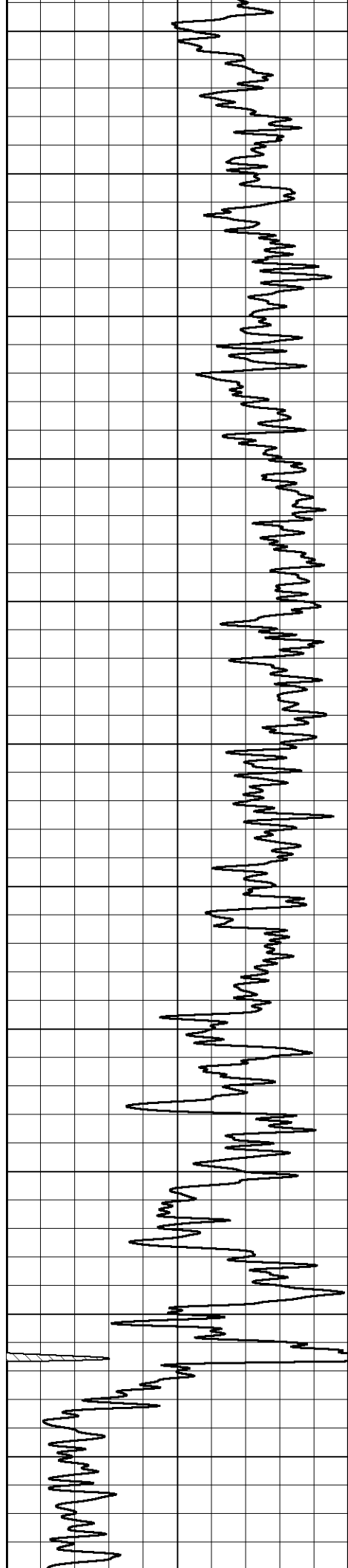
PIONEER
Pioneer Energy Services

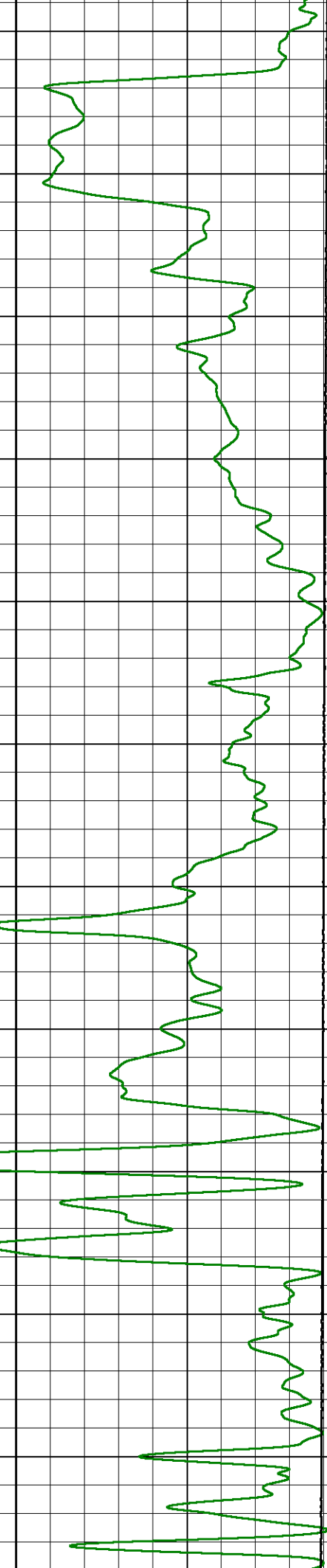
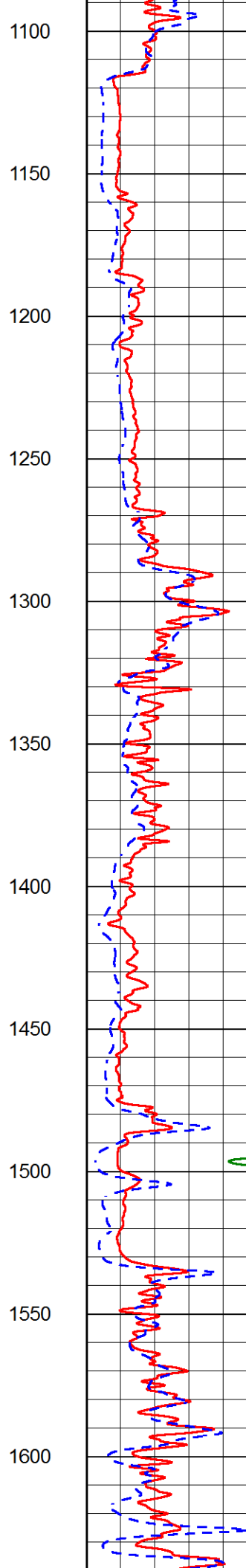
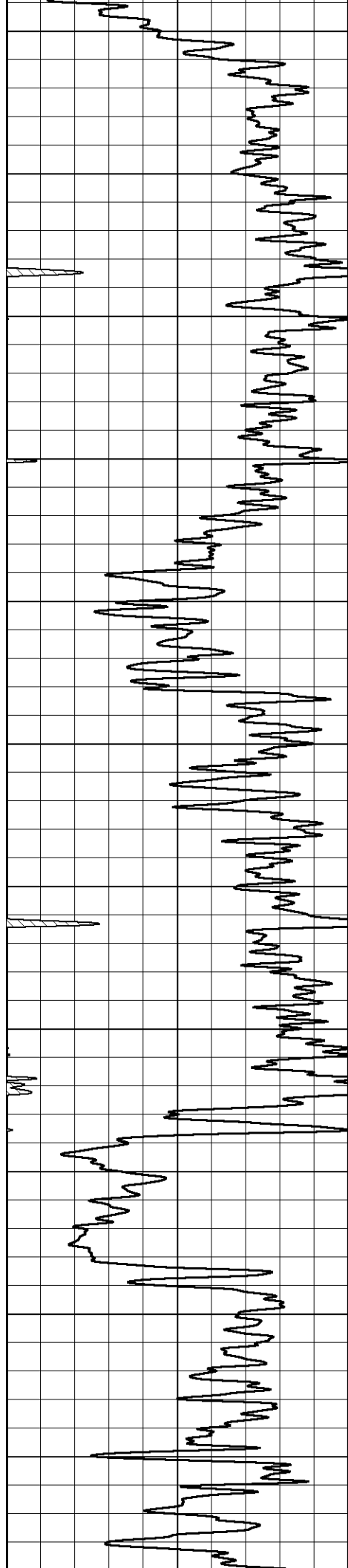
MAIN PASS

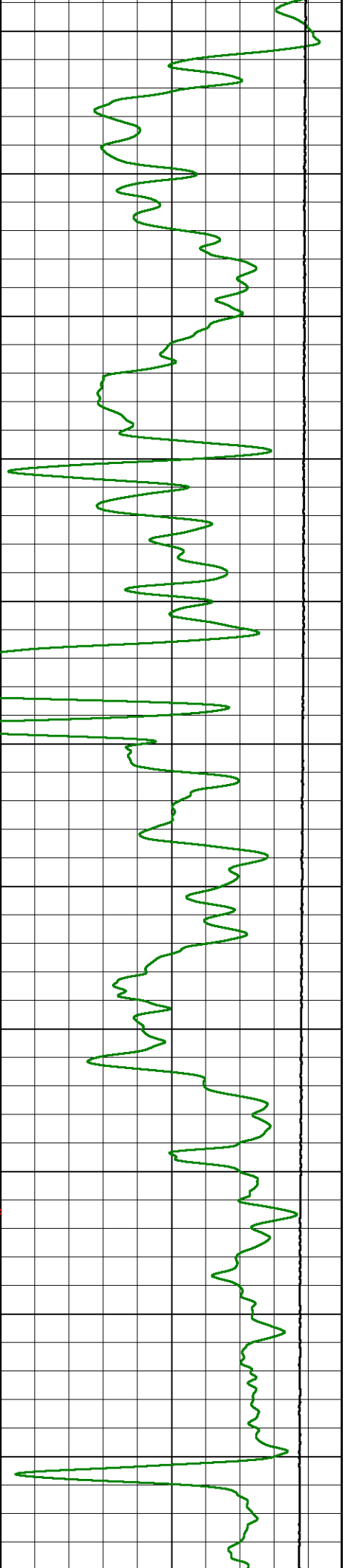
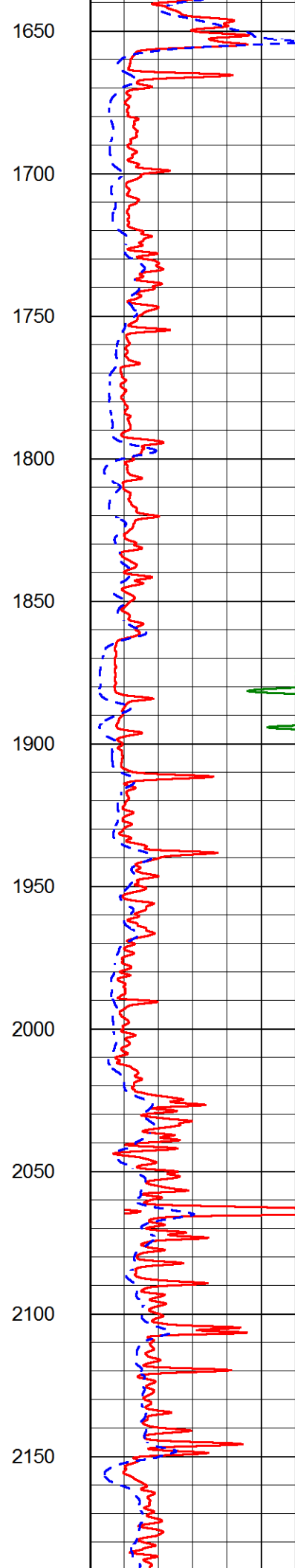
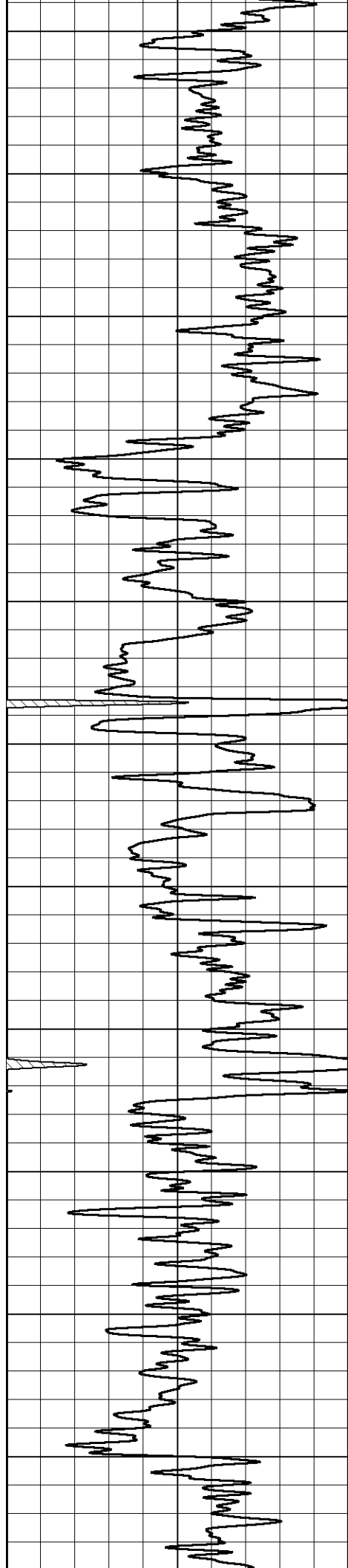
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Charted by	Depth in Feet scaled 1:600

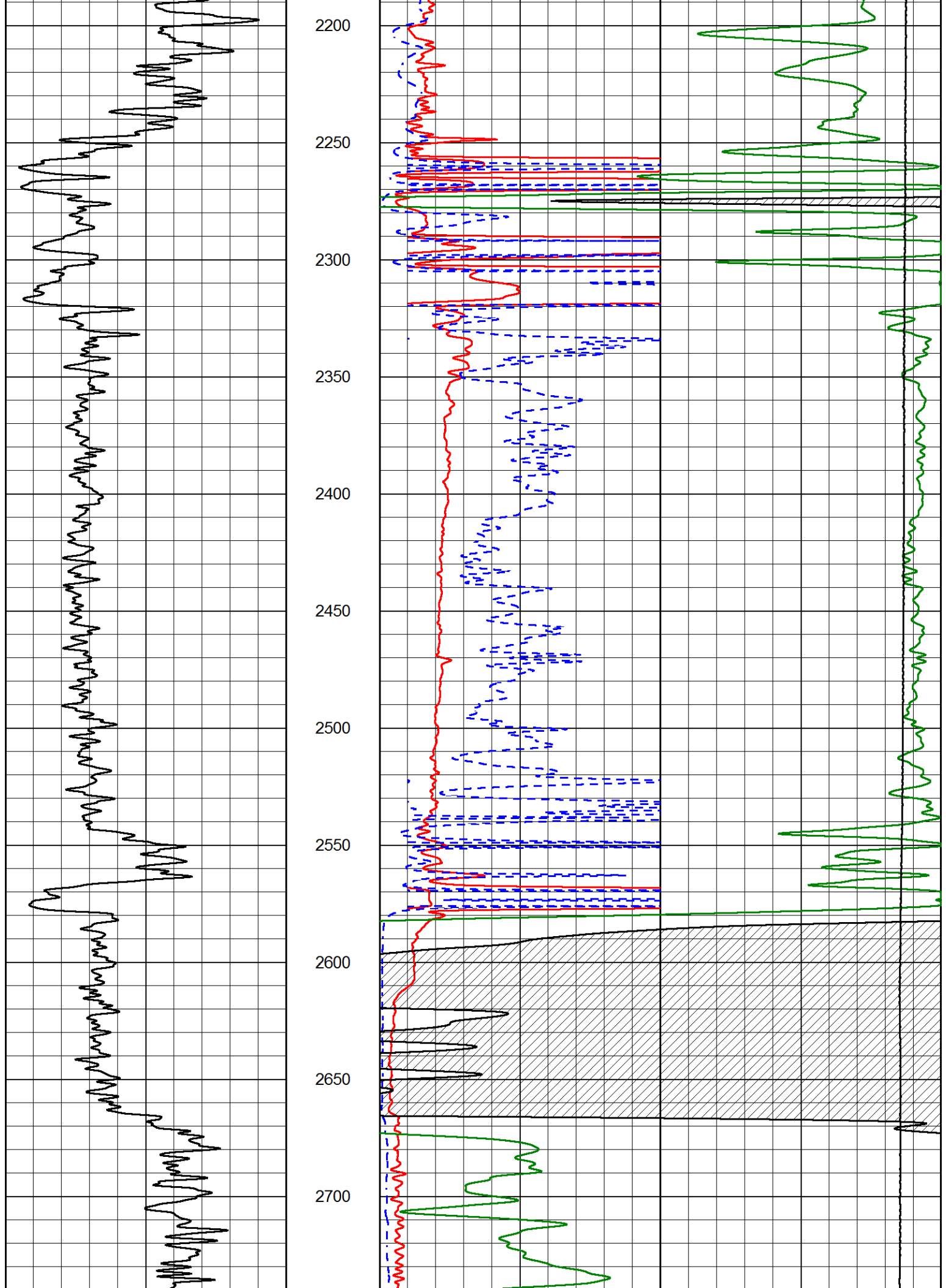
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			50	(Ohm-m)	500
			50	Deep Resistivity (Ohm-m)	500

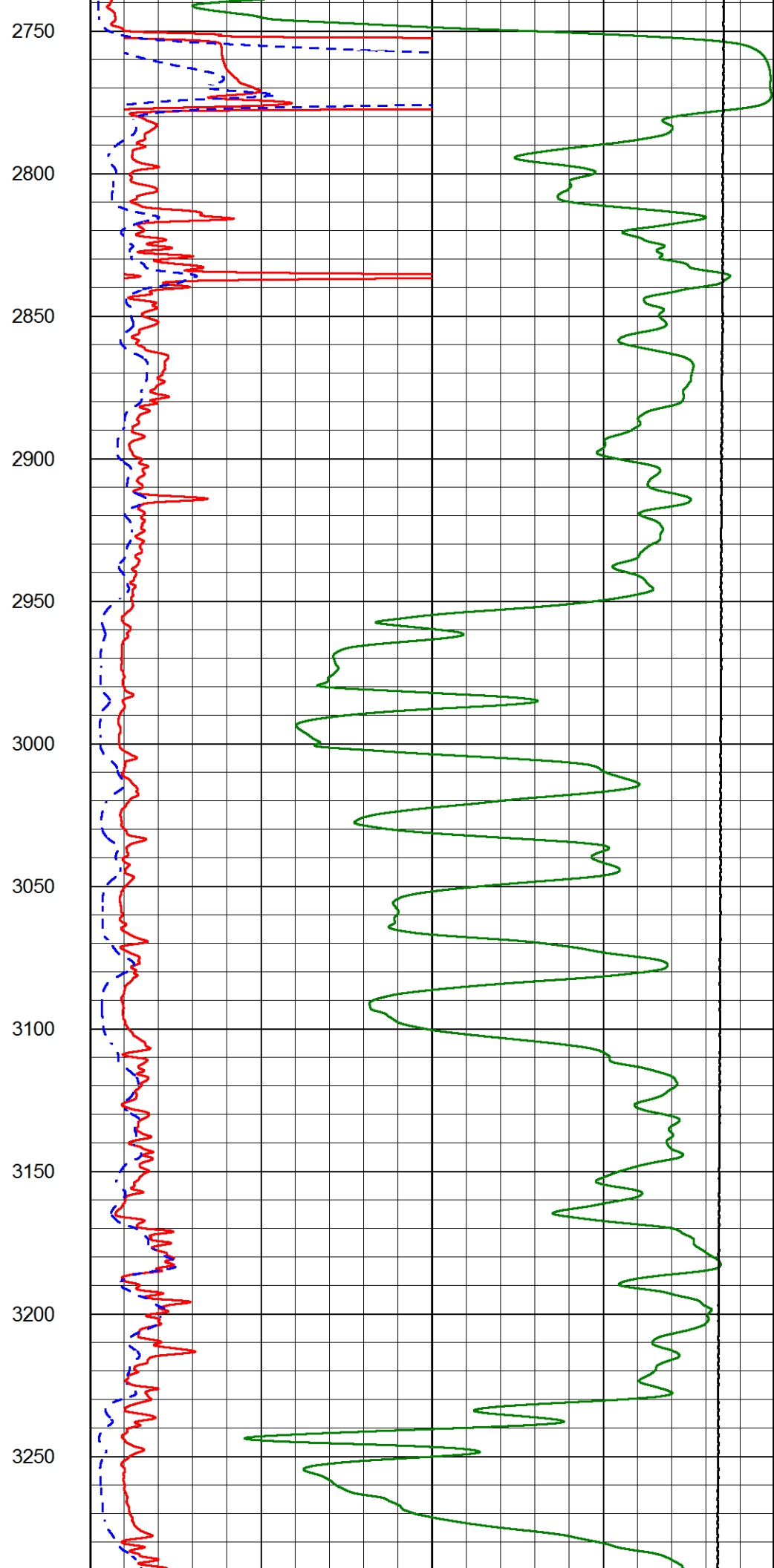
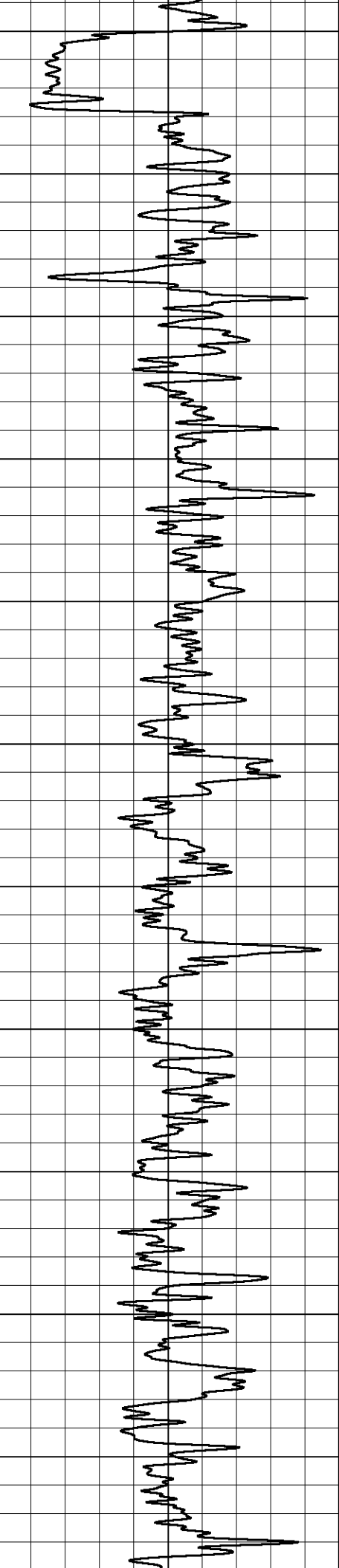


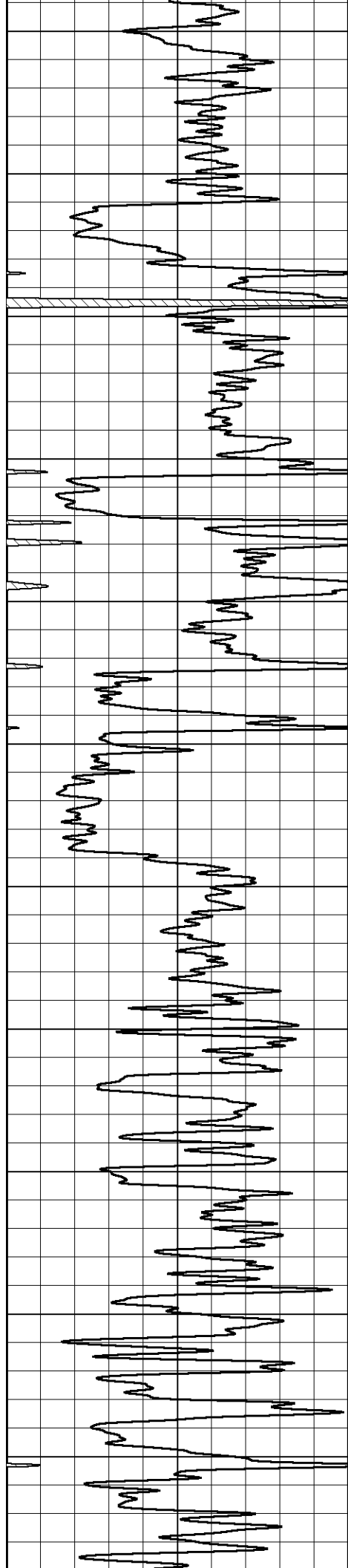




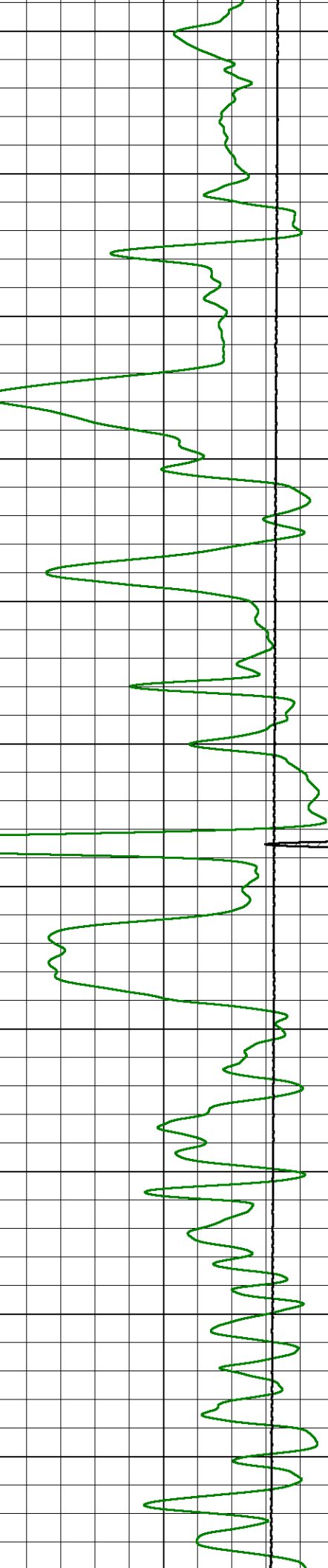
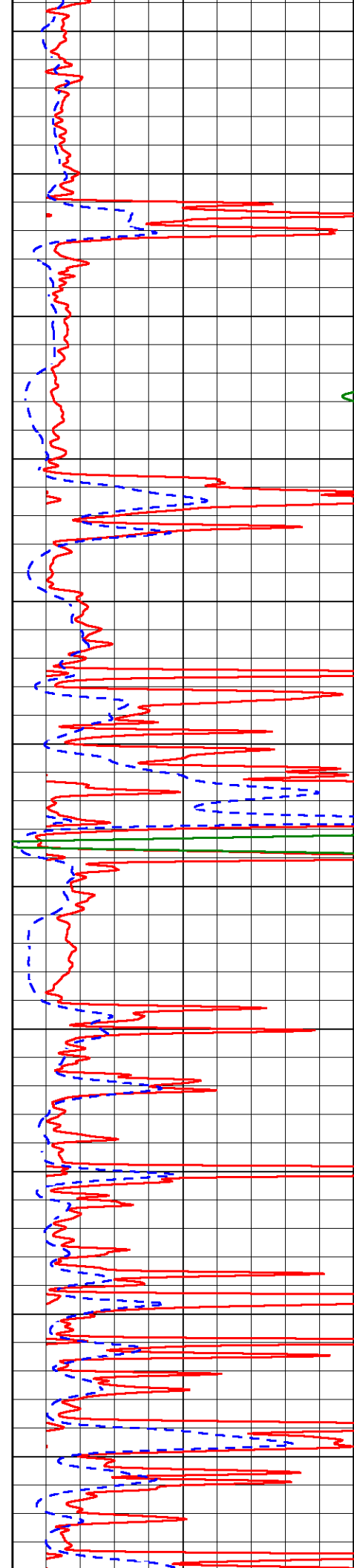


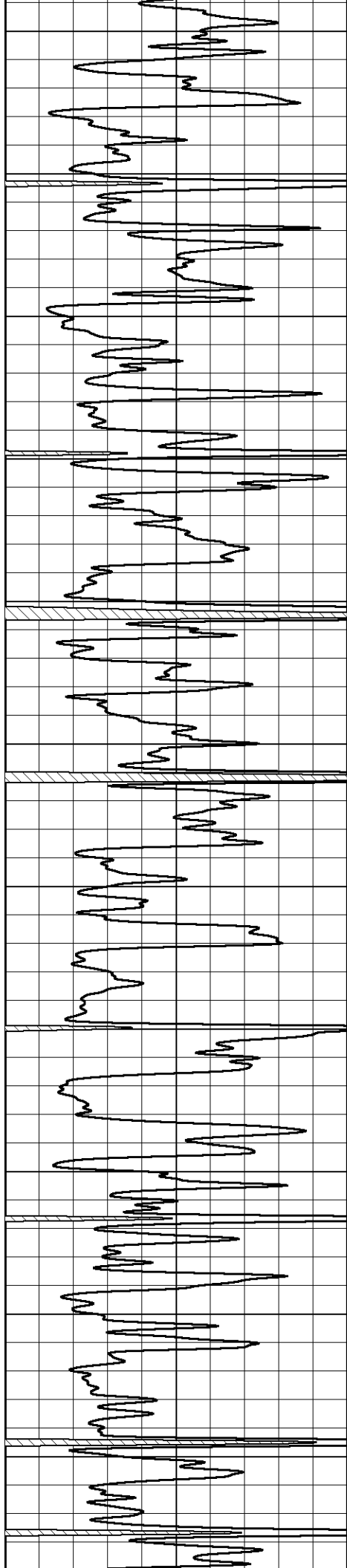




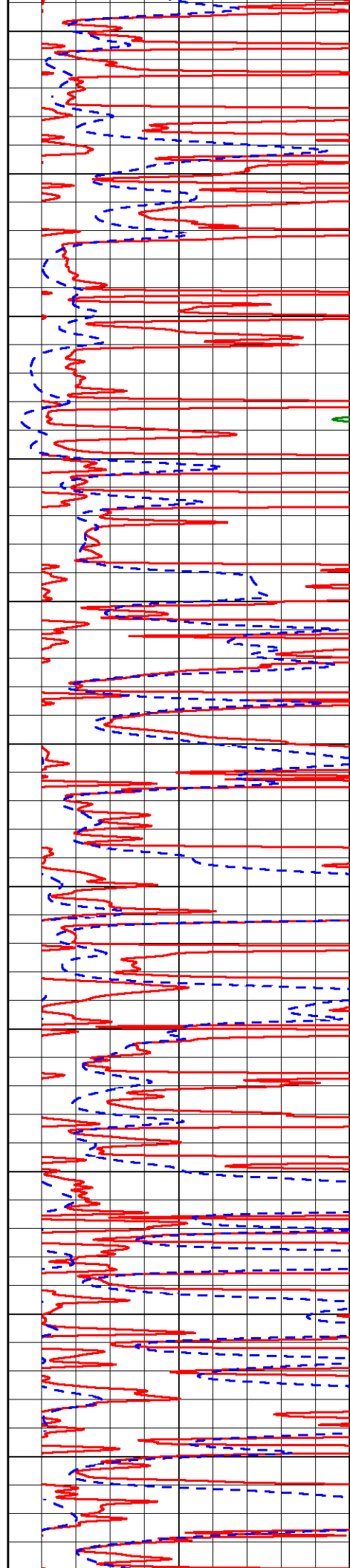


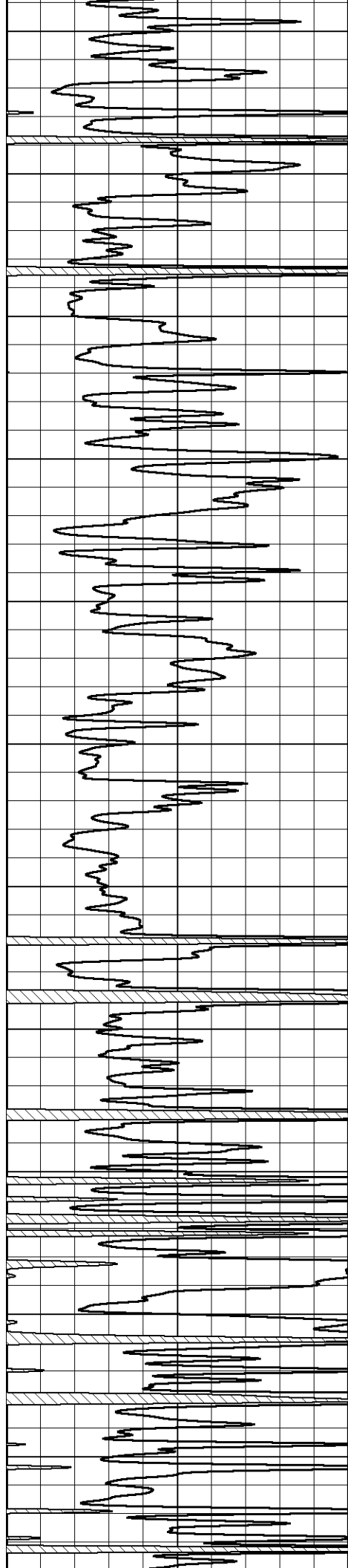
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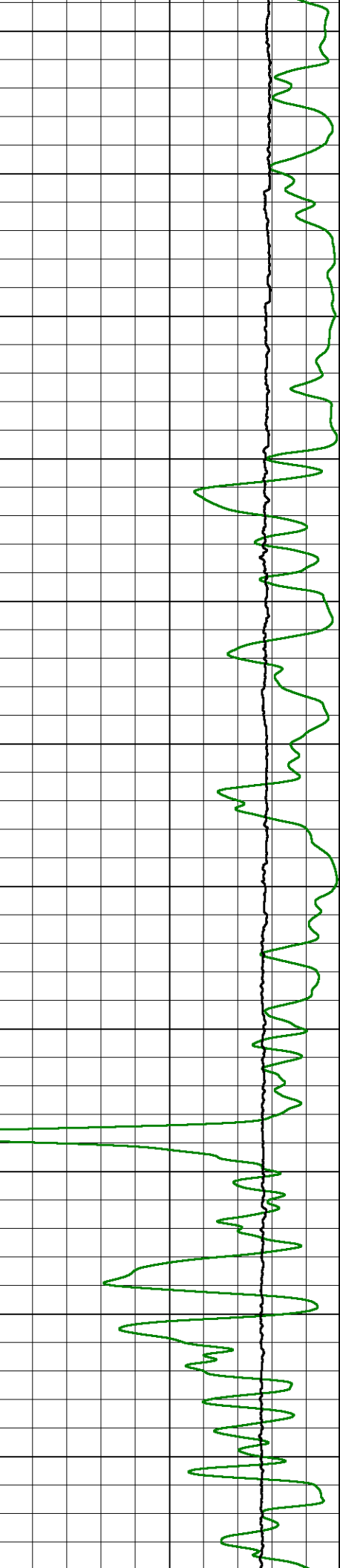
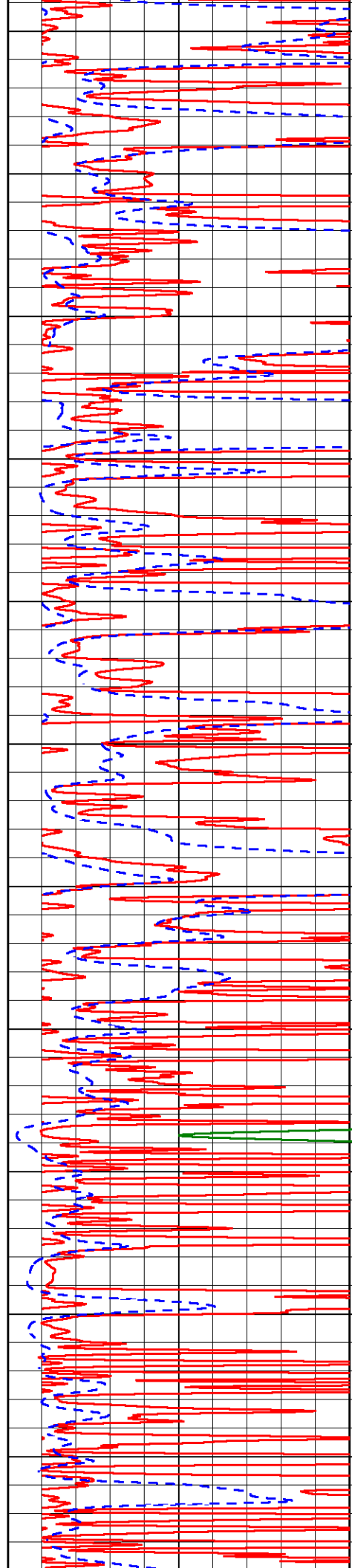


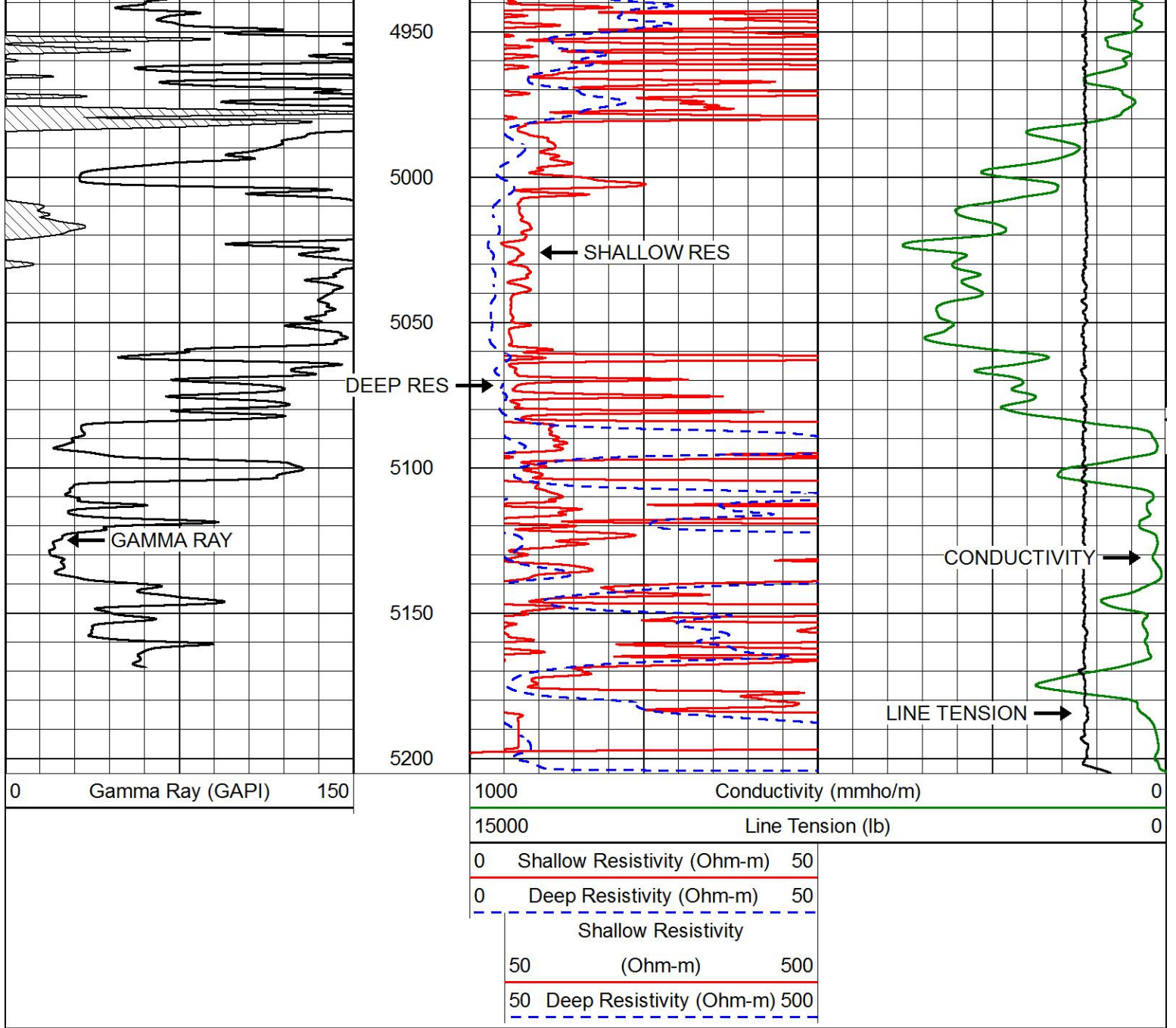
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4850
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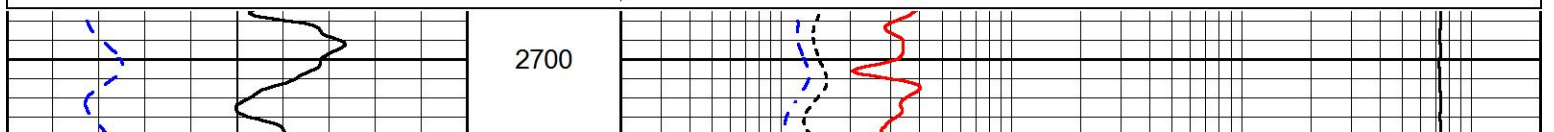


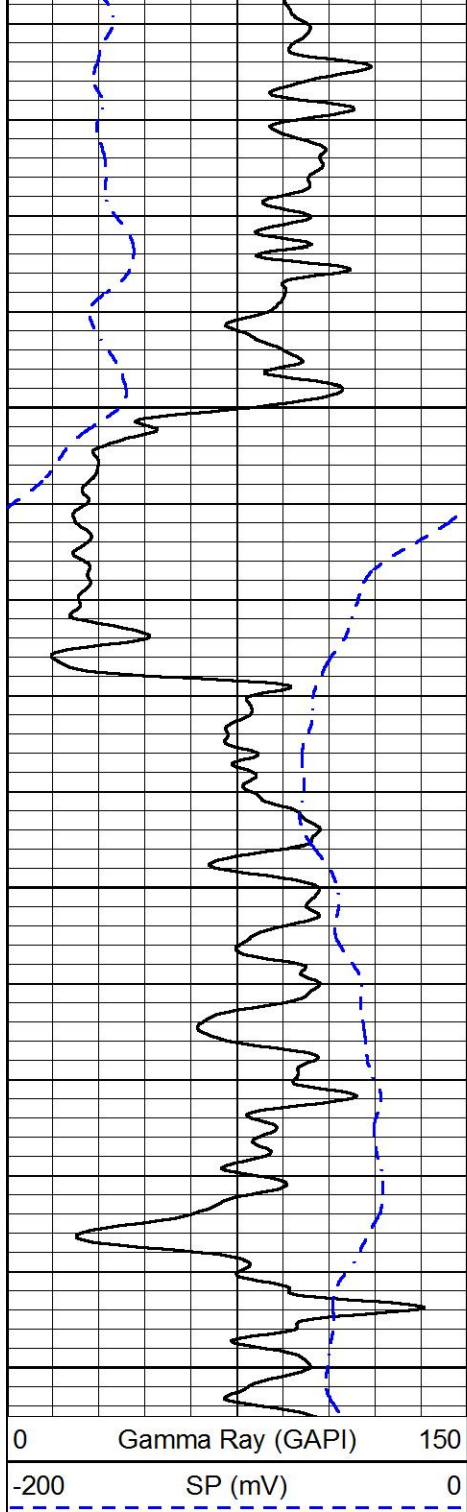


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10000	Line Tension (lb)	0

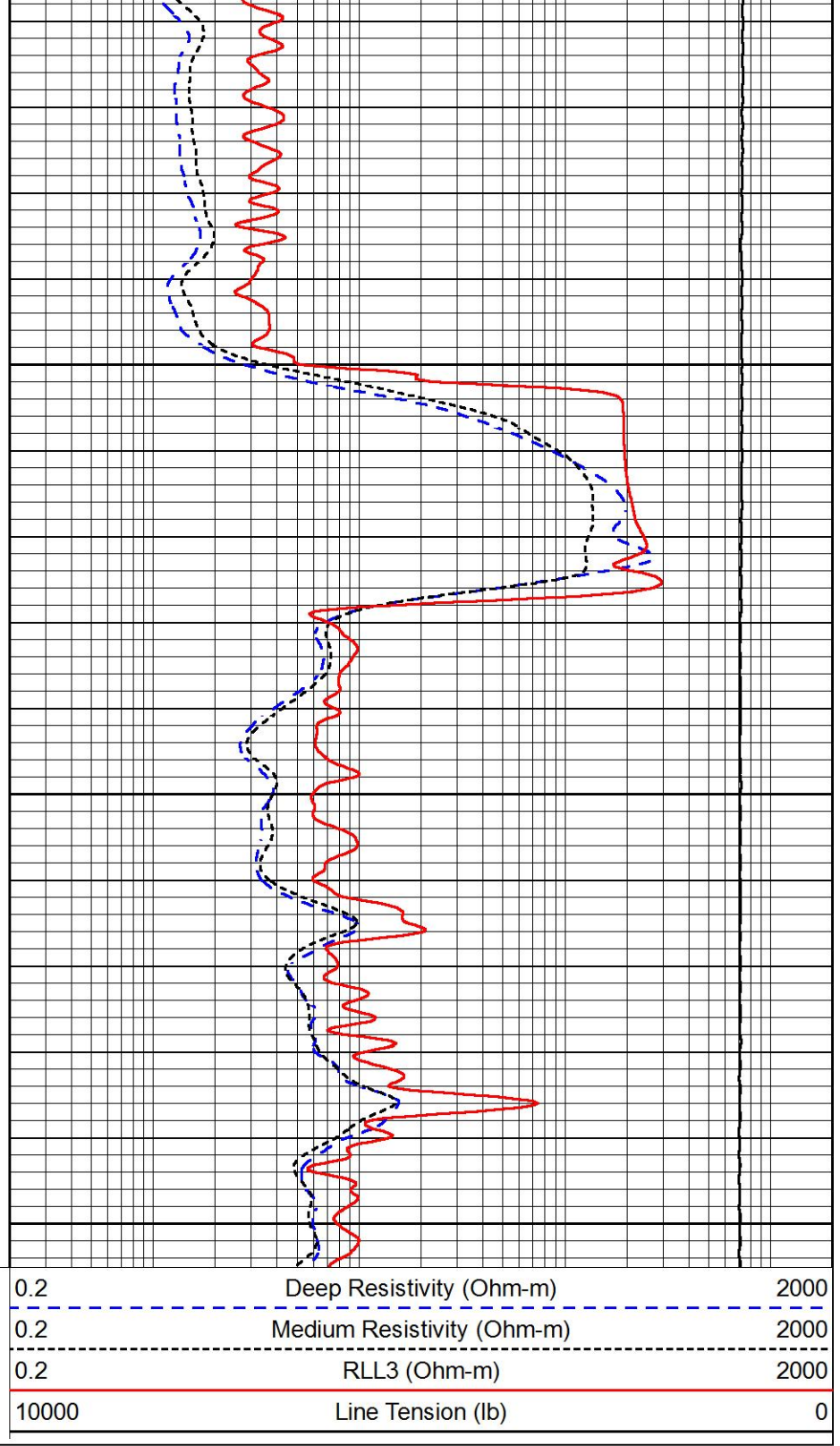




2750

2800

2850



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
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10000	Line Tension (lb)	0



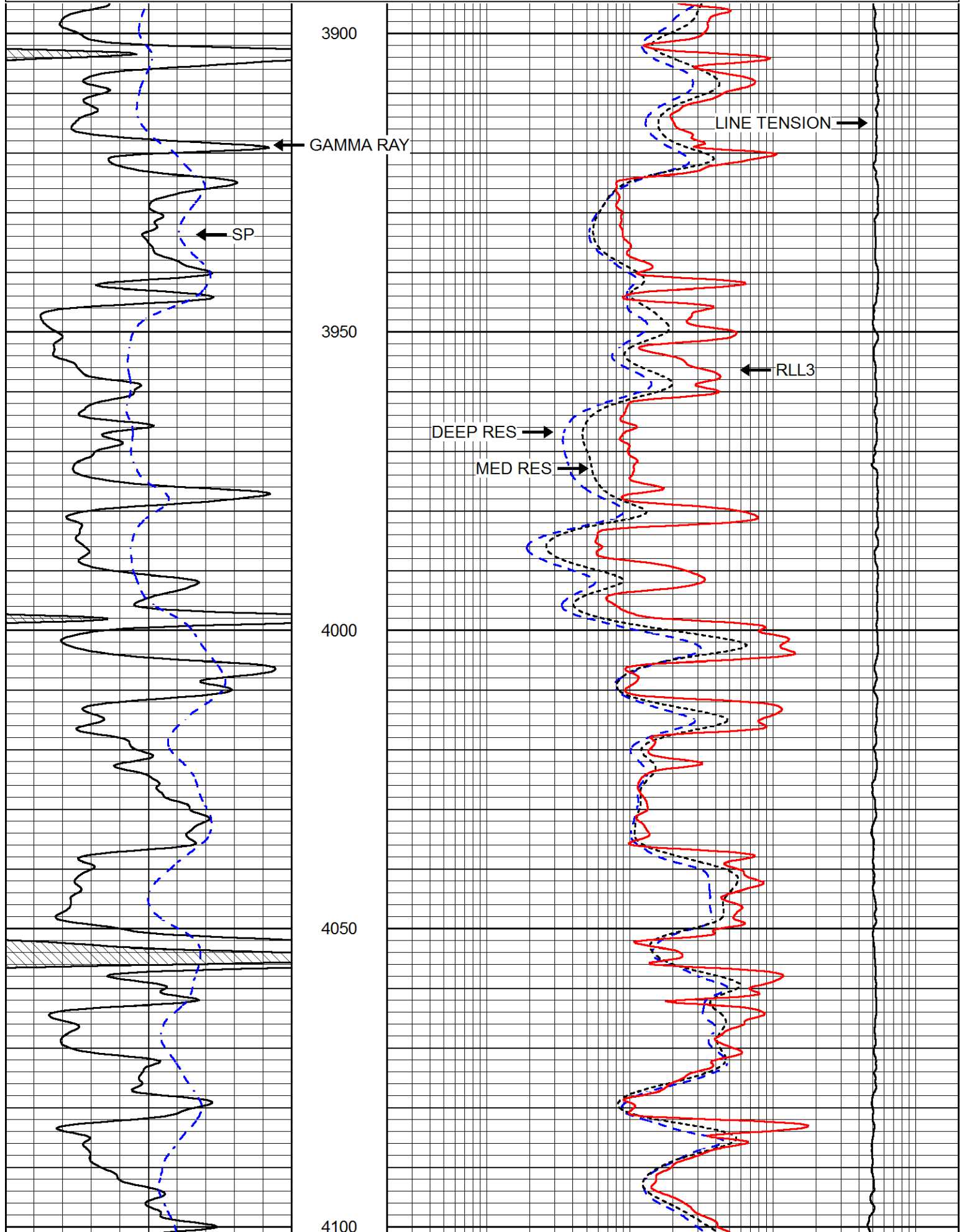
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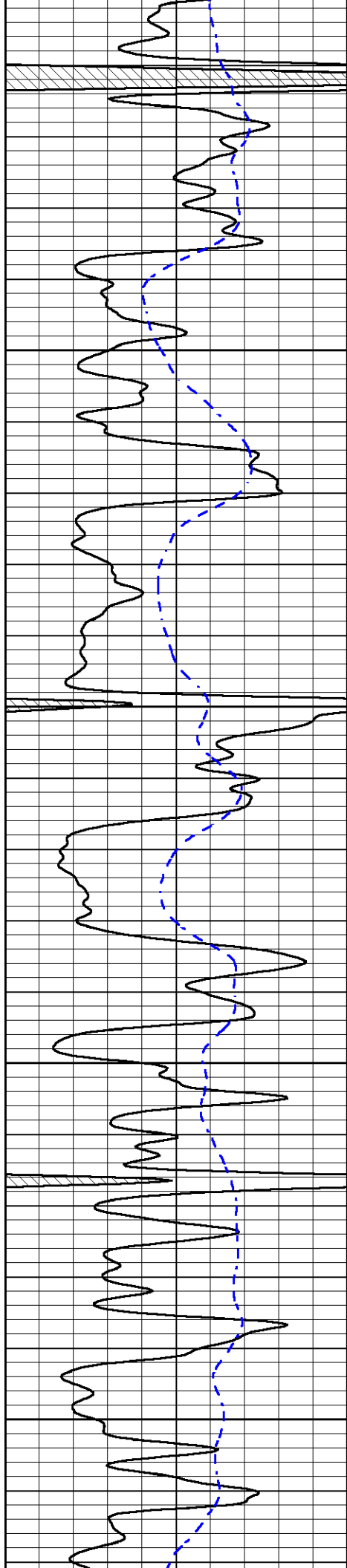
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-200	SP (mV)	0
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000

200 SP (mv) 0

0.2 Medium Resistivity (Ohm-m) 2000
 0.2 RLL3 (Ohm-m) 2000
 10000 Line Tension (lb) 0



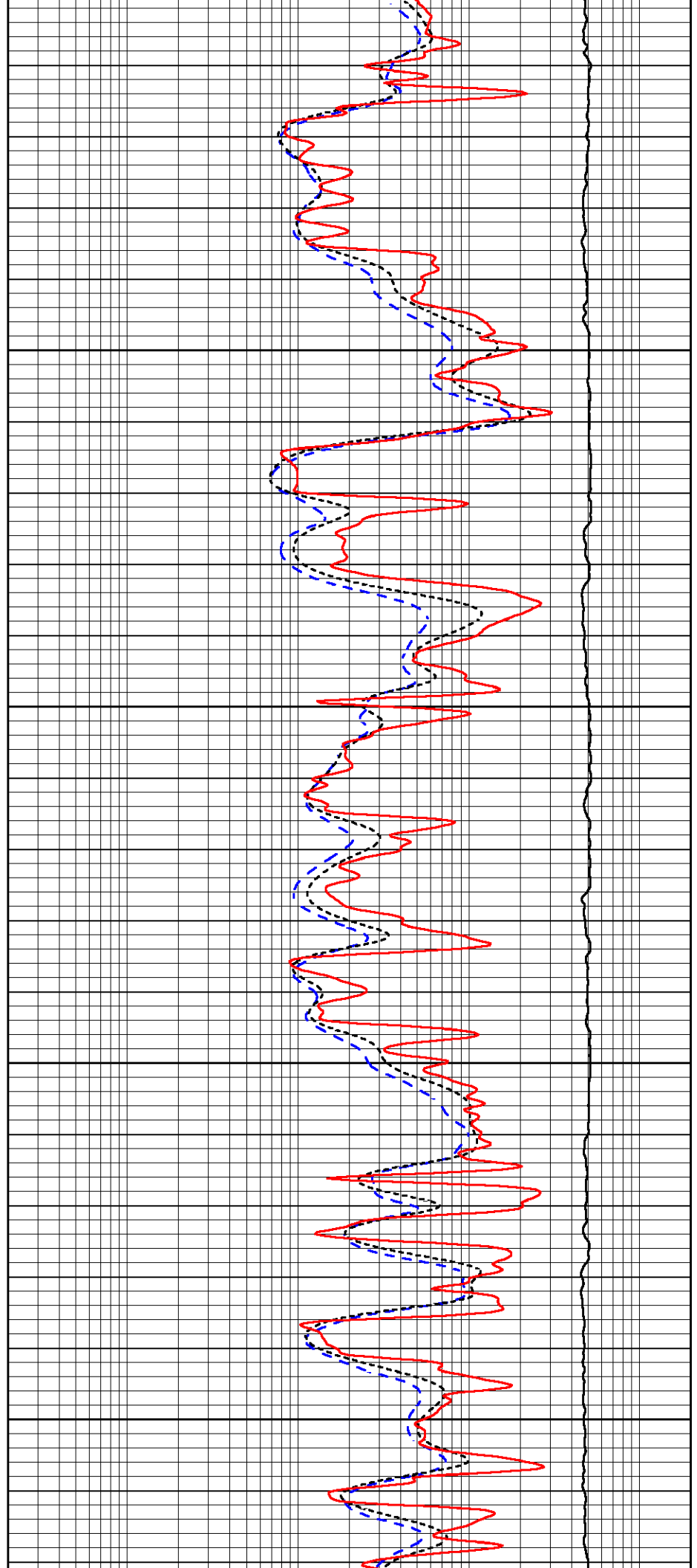


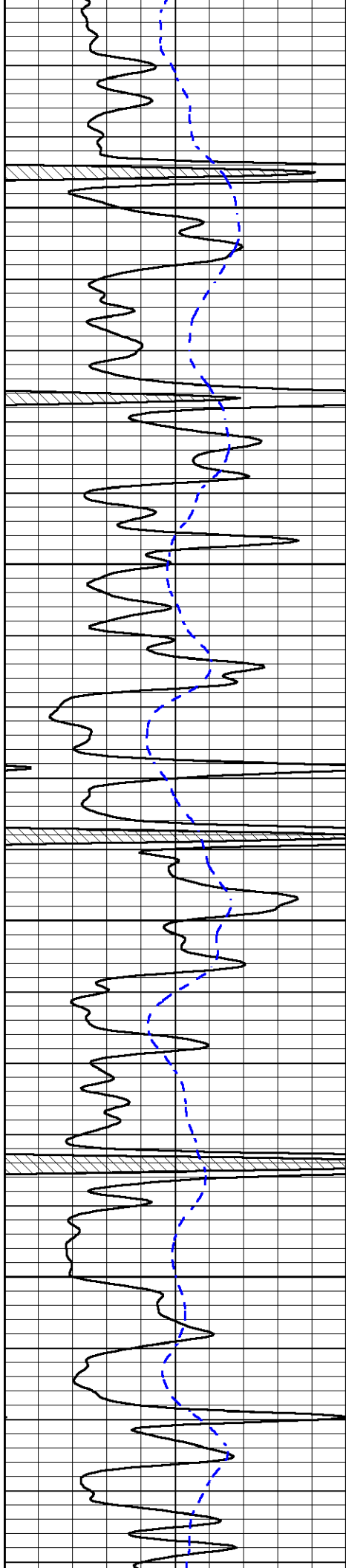
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4200

4250

4300



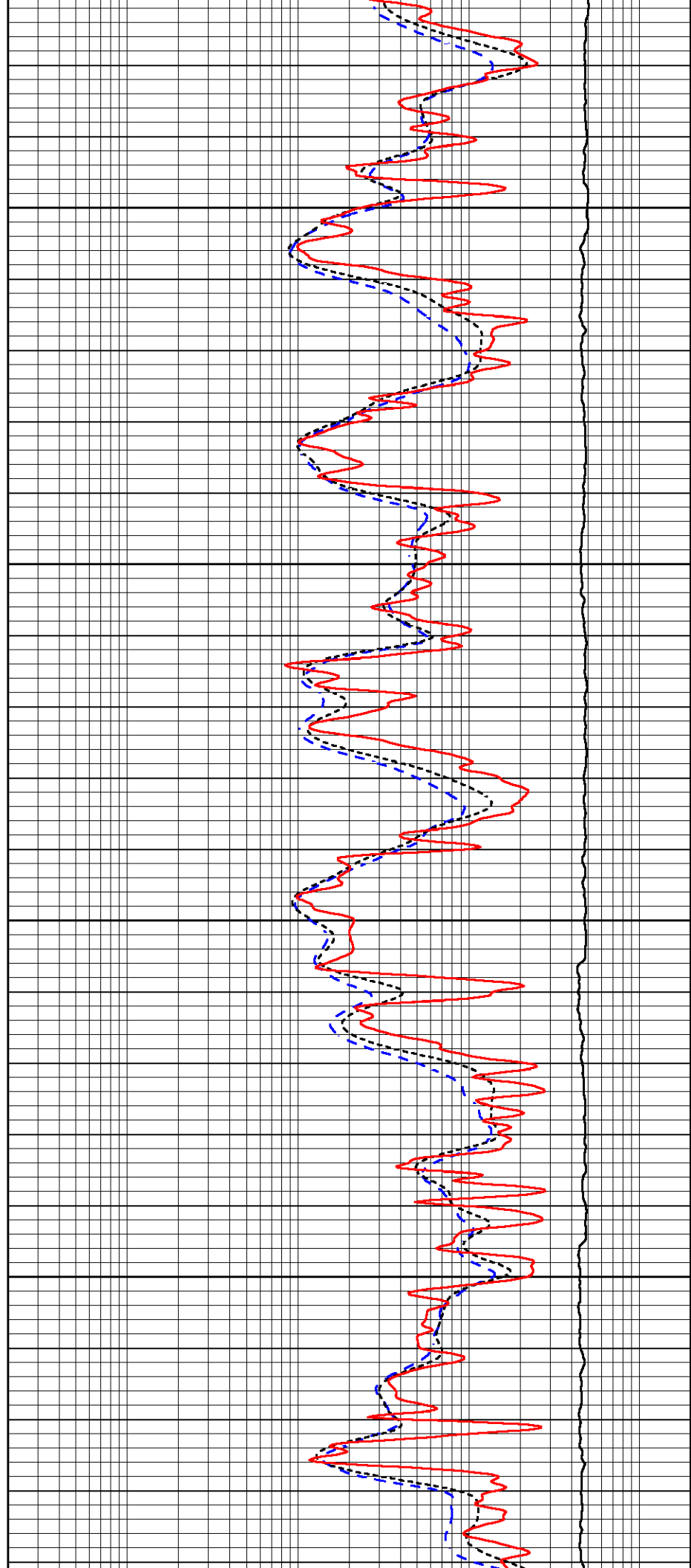


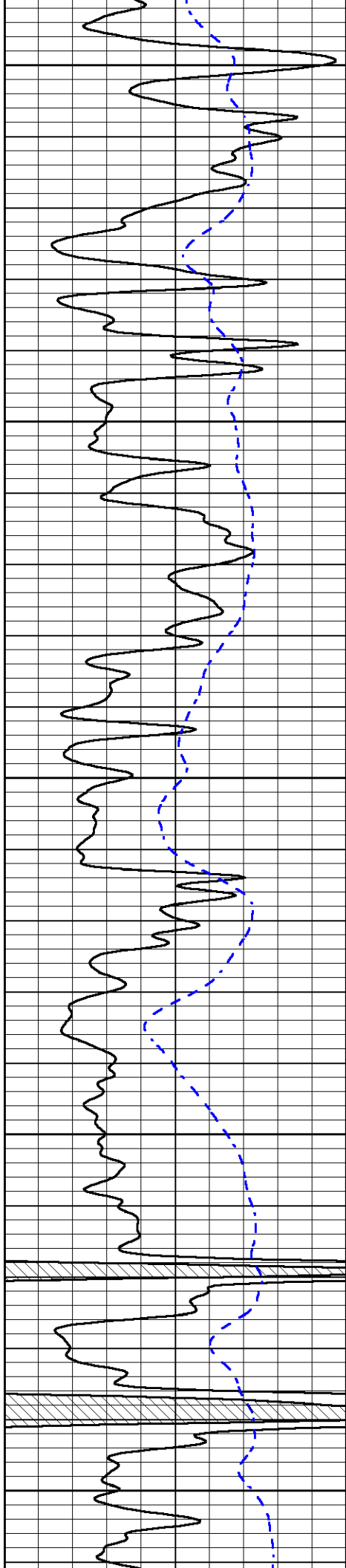
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4400

4450

4500





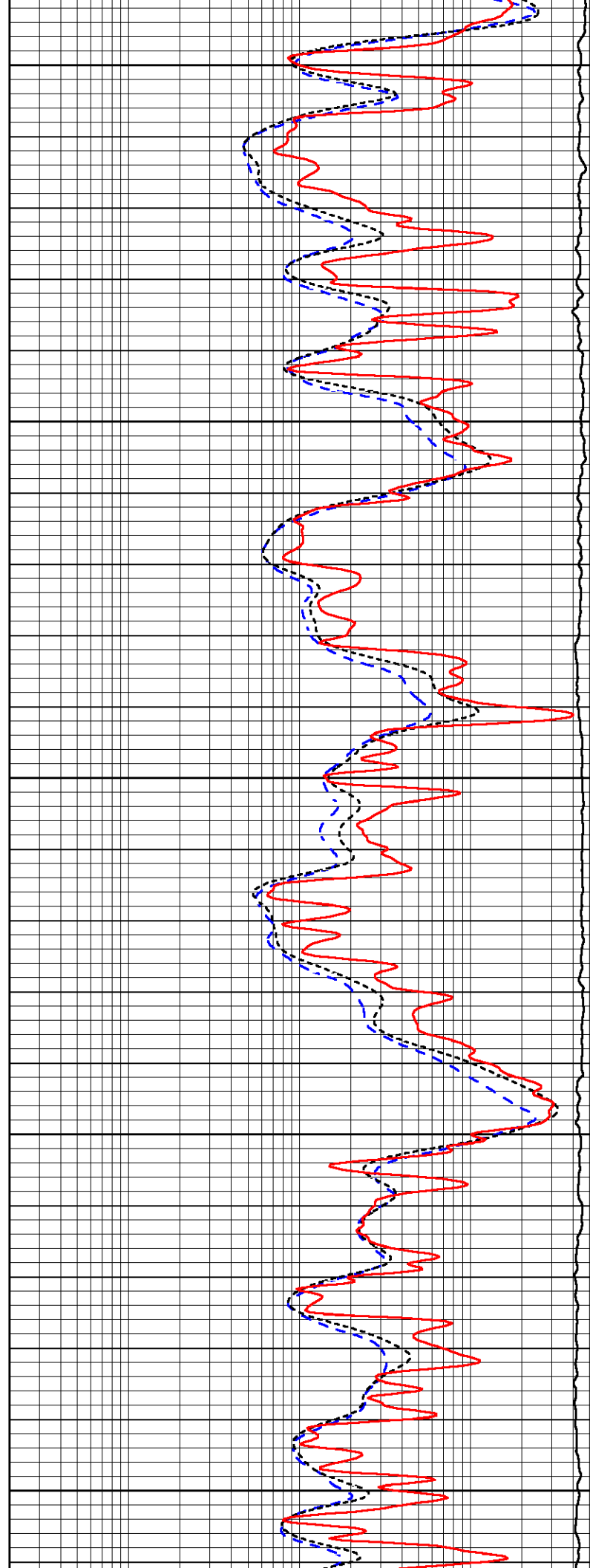
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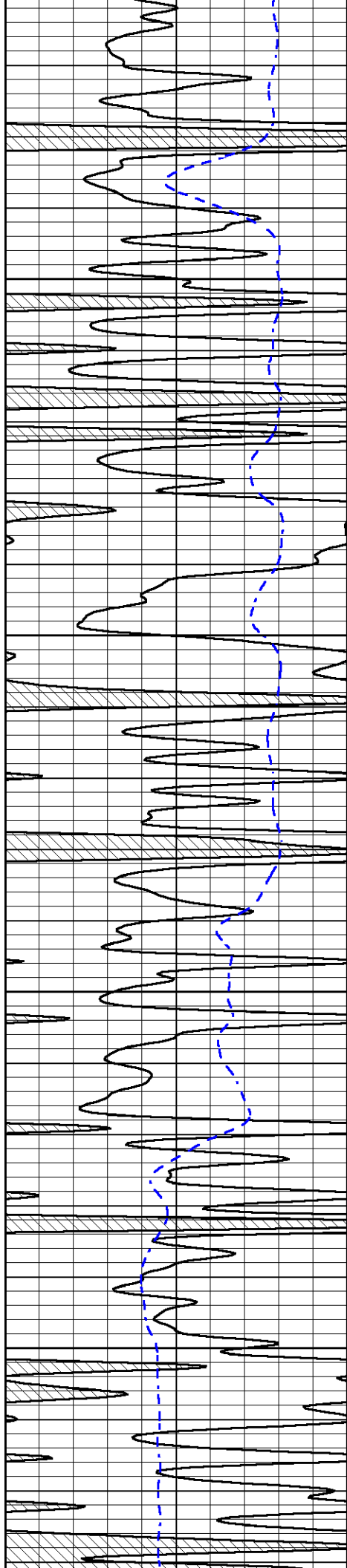
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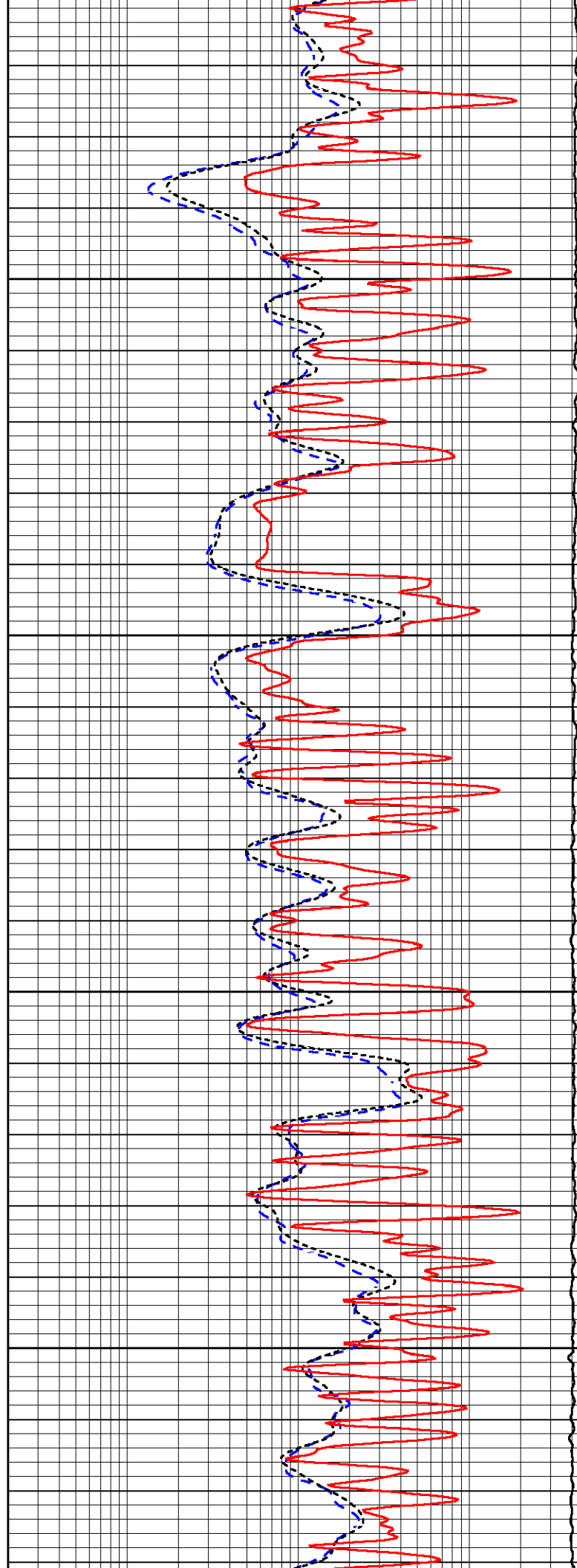


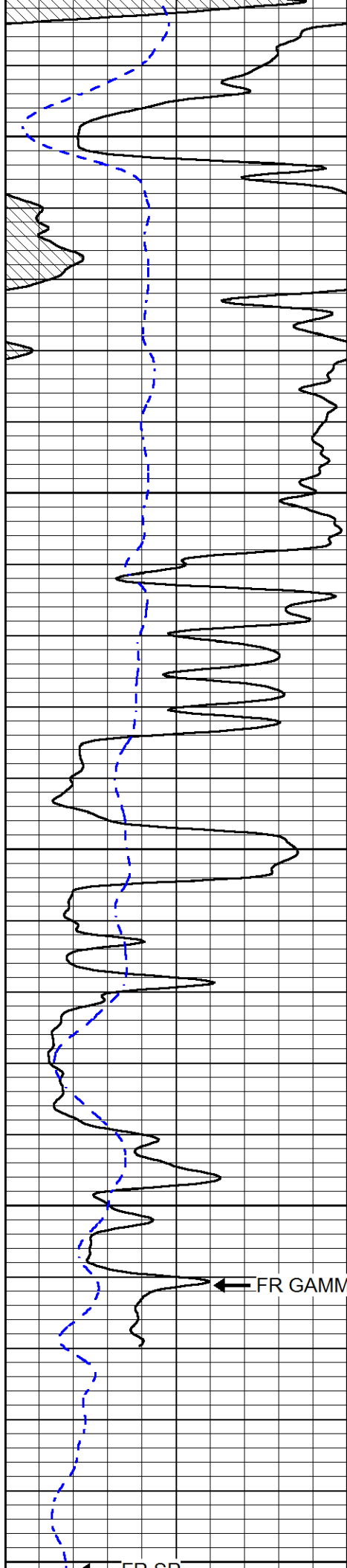
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4950





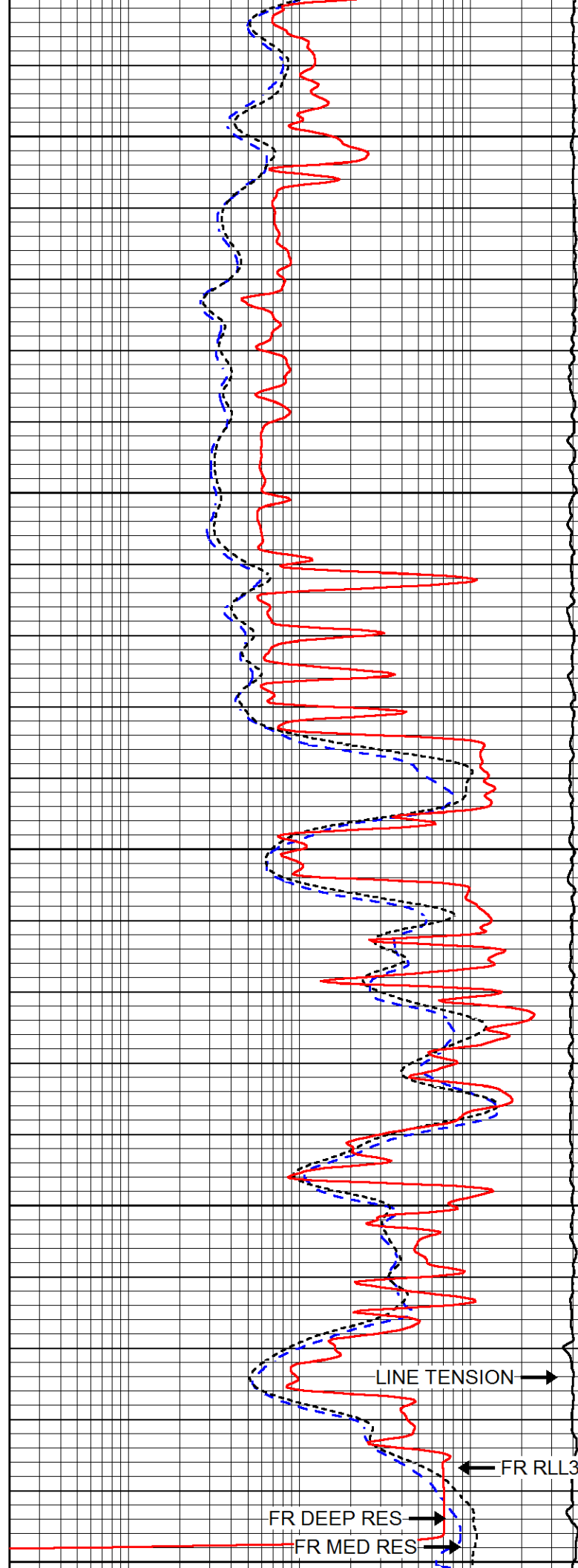
5000

5050

5100

5150

5200



0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

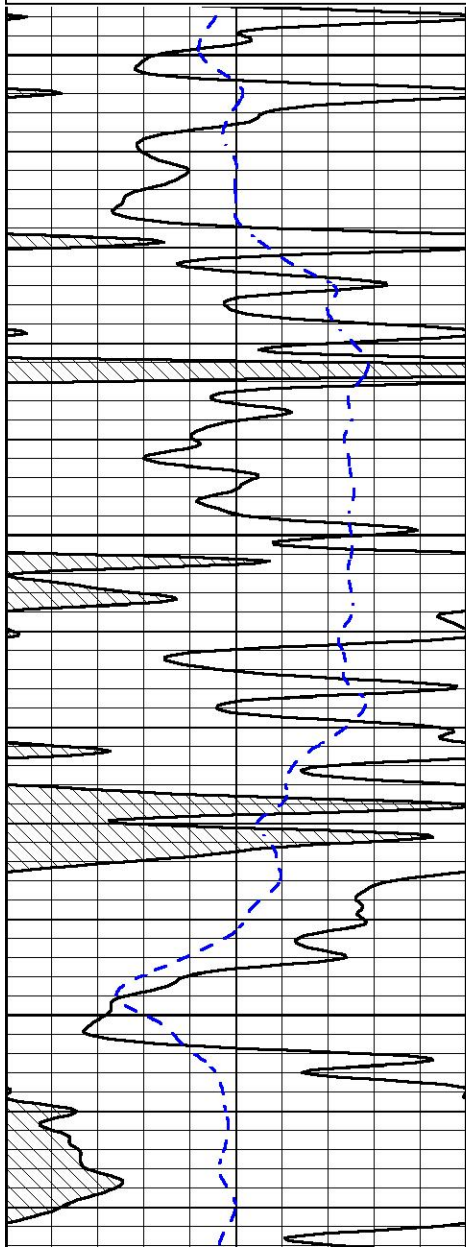


REPEAT SECTION

Database File american_warrior_blaesi_9-6.db
 Dataset Pathname STKML/pass2.1
 Presentation Format dil
 Dataset Creation Fri Aug 11 13:26:14 2017
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

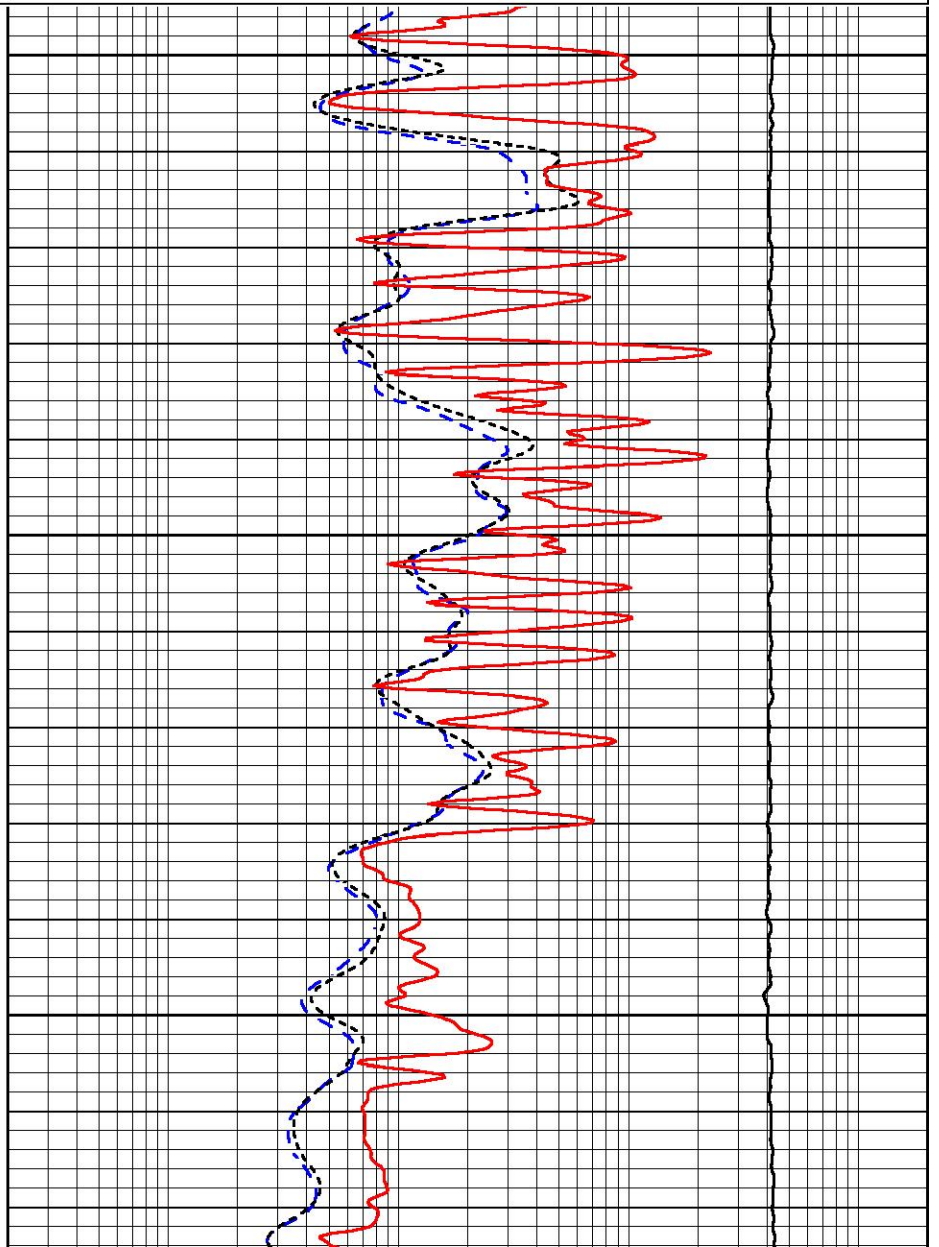
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

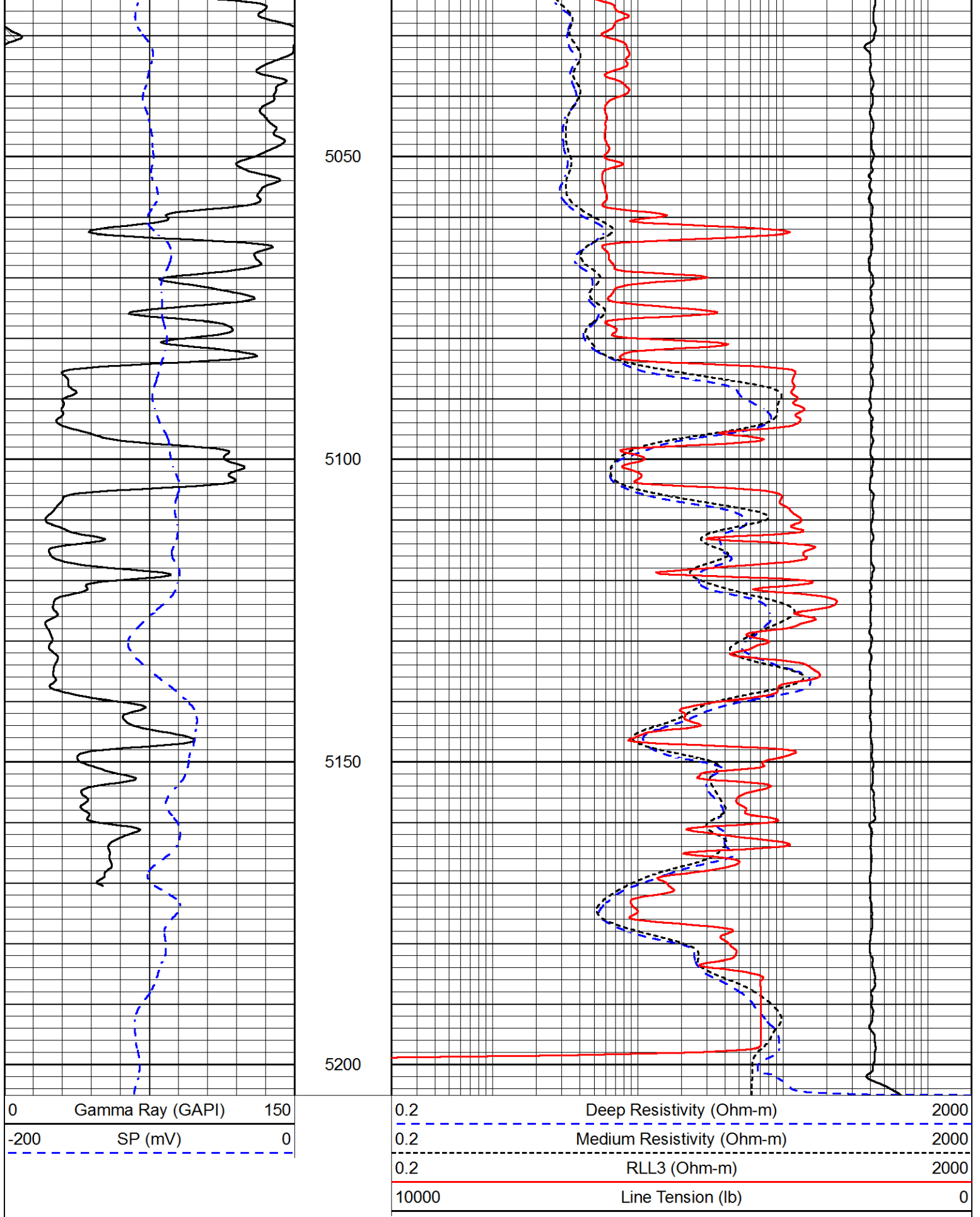


4900

4950

5000





Calibration Report

Database File american warrior_blaesi_9-6.db
 Dataset Pathname STKML/pass3.7
 Dataset Creation Fri Aug 11 12:48:38 2017

Dual Induction Calibration Report

Serial-Model: PSI 91-M&W
 Calibration Performed: Thu Aug 10 08:41:25 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.430	-32.000
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.360	-31.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Fri Aug 11 11:41:38 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	21500.0000	-0.6000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	26000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.3300

Compensated Density Calibration Report

Serial-Model: 90-1031-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Wed Aug 02 00:28:57 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4903.44	6153.79	cps
Aluminum	2.685	g/cc	934.50	4021.31	cps
Spine Angle = 75.61			Density/Spine Ratio = 0.543		
	Size		Reading		
Small Ring	8.00	in	1.84		
Large Ring	22.00	in	1.46		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: Tues Aug 1 10:30:30 2017

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89
 Tool Model: M&W

Calibration Performed:	Wed Aug 02 00:29:15 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps



PIONEER

Pioneer Energy Services

Company	AMERIAN WARRIOR, INC.
Well	BLAESI #9-6
Field	UNKNOWN
County	WALLACE
State	KANSAS



DUAL COMP POROSITY LOG

Pioneer Energy Services

Company **AMERICAN WARRIOR, INC.**
 Well **BLAESI #9-6**
 Field **UNKNOWN**
 County **WALLACE** State **KANSAS**

Company **AMERICAN WARRIOR, INC.**
 Well **BLAESI #9-6**
 Field **UNKNOWN**
 County **WALLACE**
 State **KANSAS**

Location: **335' FSL & 1800' FEL**
 SEC 6 TWP 15S RGE 41W
 Permanent Datum **GROUND LEVEL Elevation 3775'**
 Log Measured From **KELLY BUSHING**
 Drilling Measured From **KELLY BUSHING**
 Other Services **DIL/MEL**
 Elevation **3783'**
 D.F. **N/A**
 G.L. **3775'**

Date	8/11/2017
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	5200'
Depth Logger	5202'
Bottom Logged Interval	5173'
Top Logged Interval	3900'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	5000
Density	9.4
Level	FULL
Max. Rec. Temp. F	128
Operating Rig Time	4 HOURS
Equipment -- Location	91 HAYS
Recorded By	D. SCHMIDT
Witnessed By	LUKE THOMPSON

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	366'	8.625"	23#	0'	366'
TWO	7.875"	366'	TD				

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

SHARON SPRINGS,
 9 WEST TO 9 RD, 8 SOUTH,
 WEST AND NORTH TO LOCATION

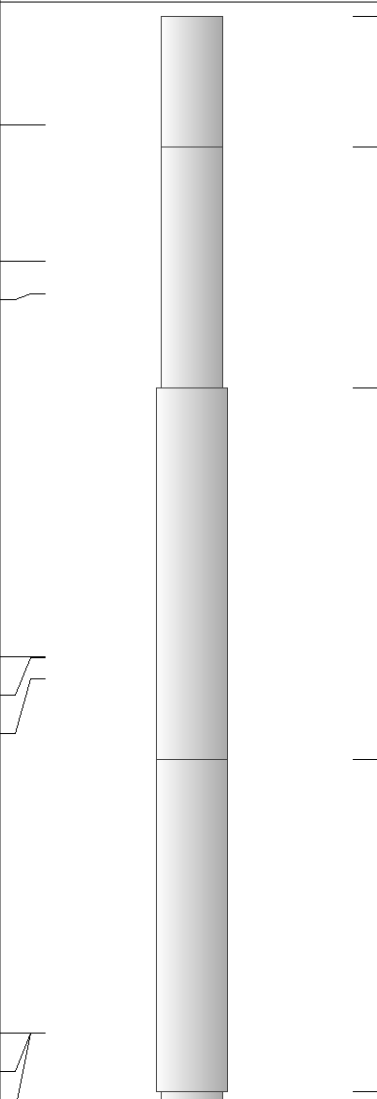
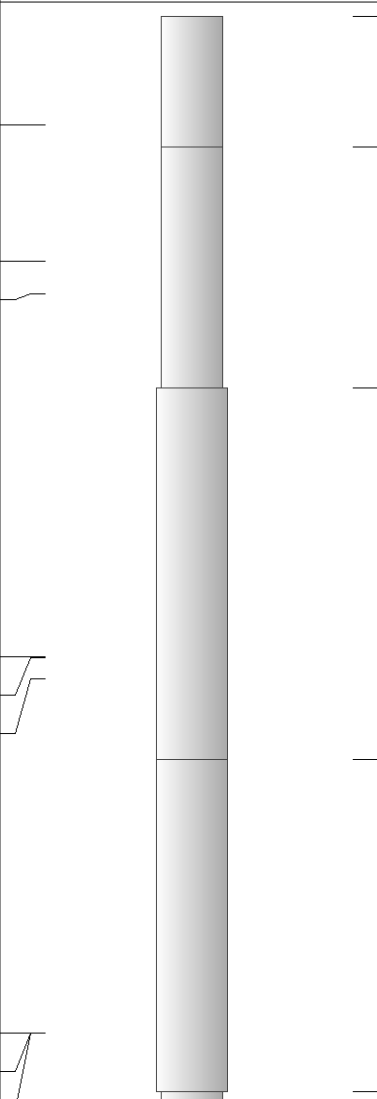
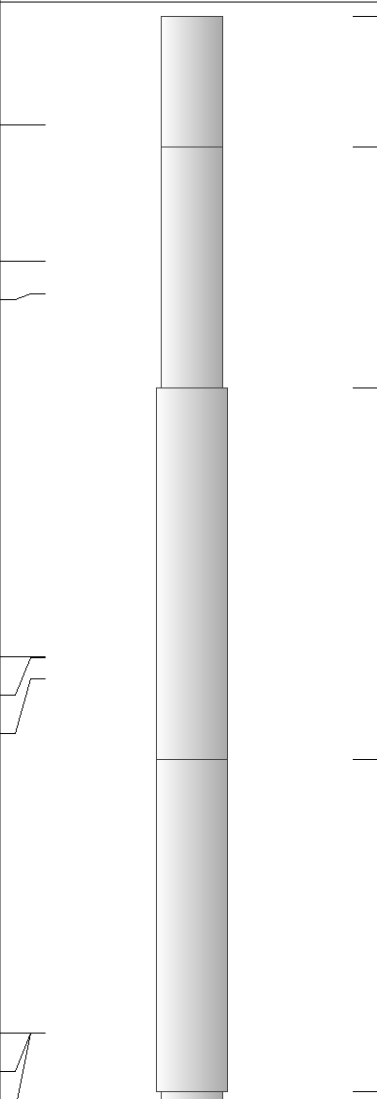
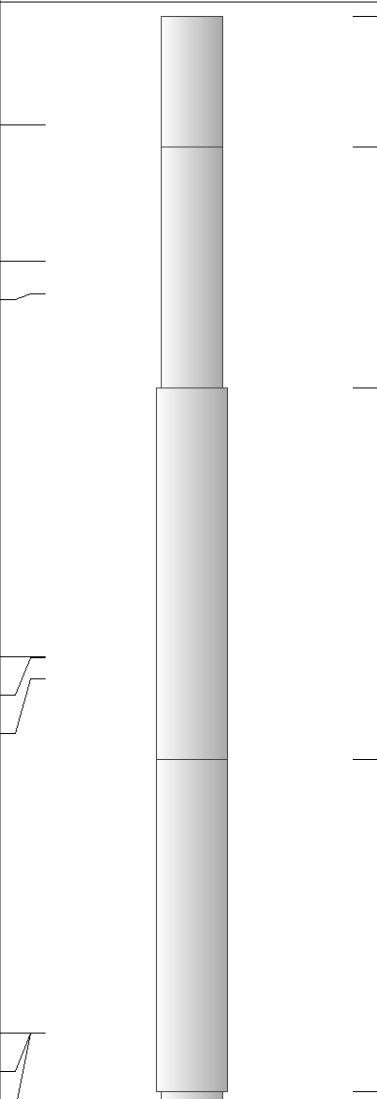
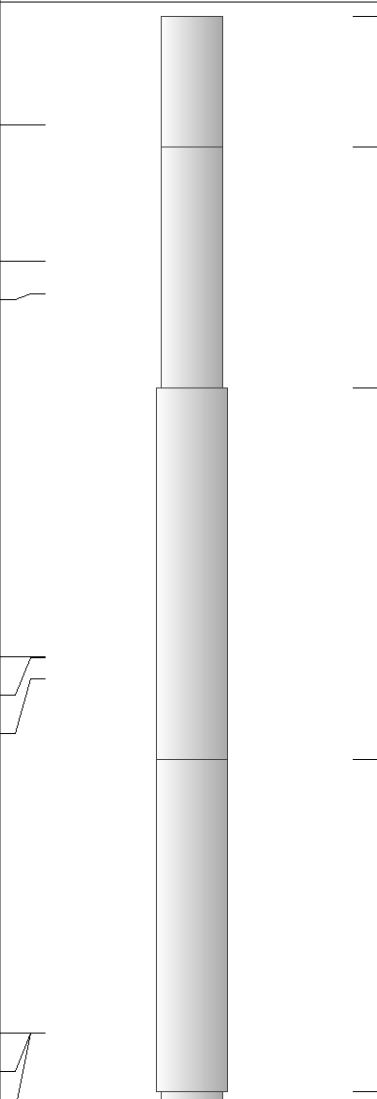
Log Measured From: **KELLY BUSHING** 8 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: LUKE THOMPSON
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	500	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	5202	128	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (90-1031)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

CILD 8.00

CILM 4.70

SP 0.20

DIL-M&W (PSI 91)

18.50

3.50

220.00

Dataset: american warrior_blaesi_9-6.db: field/well/STKML/pass3.7
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

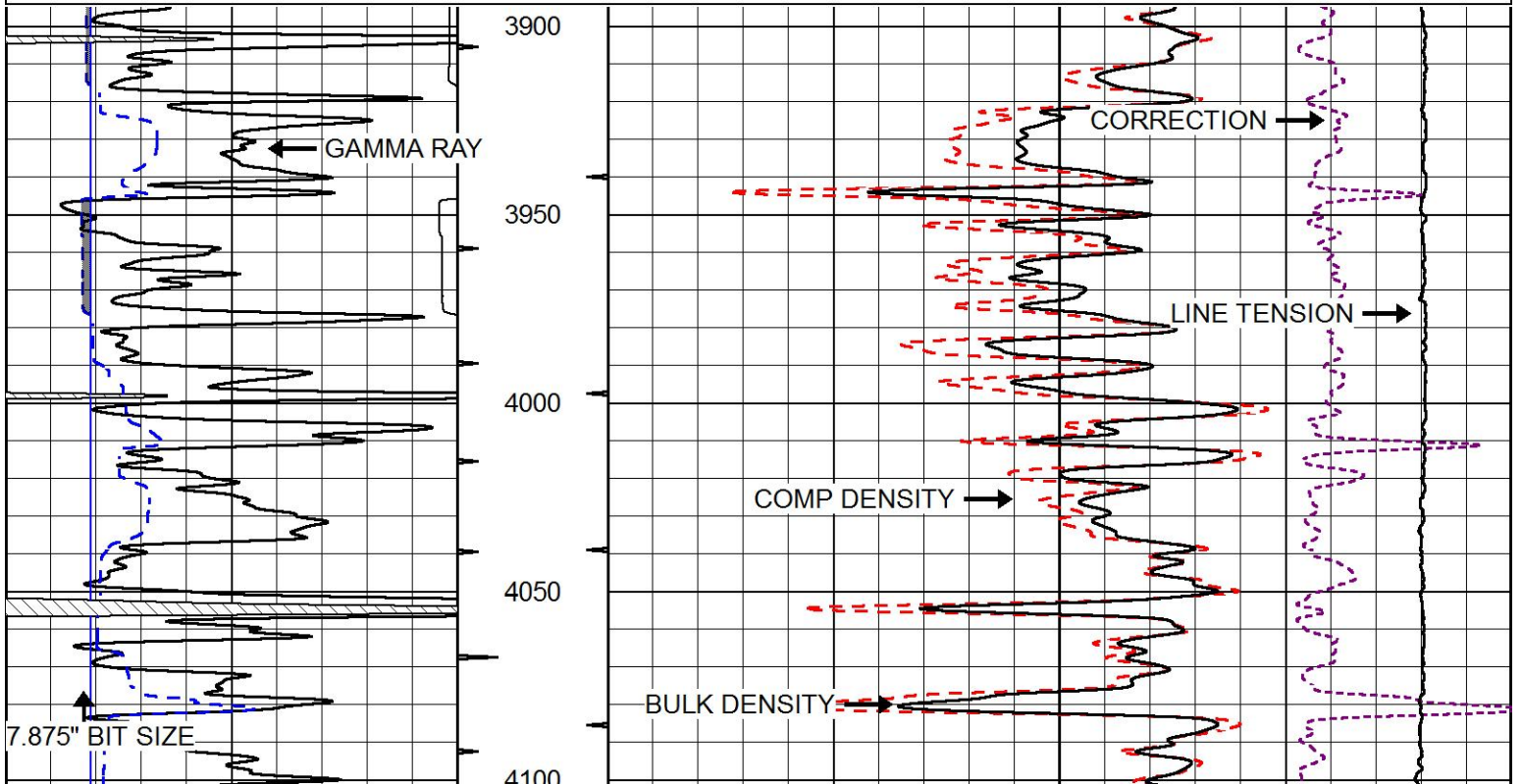


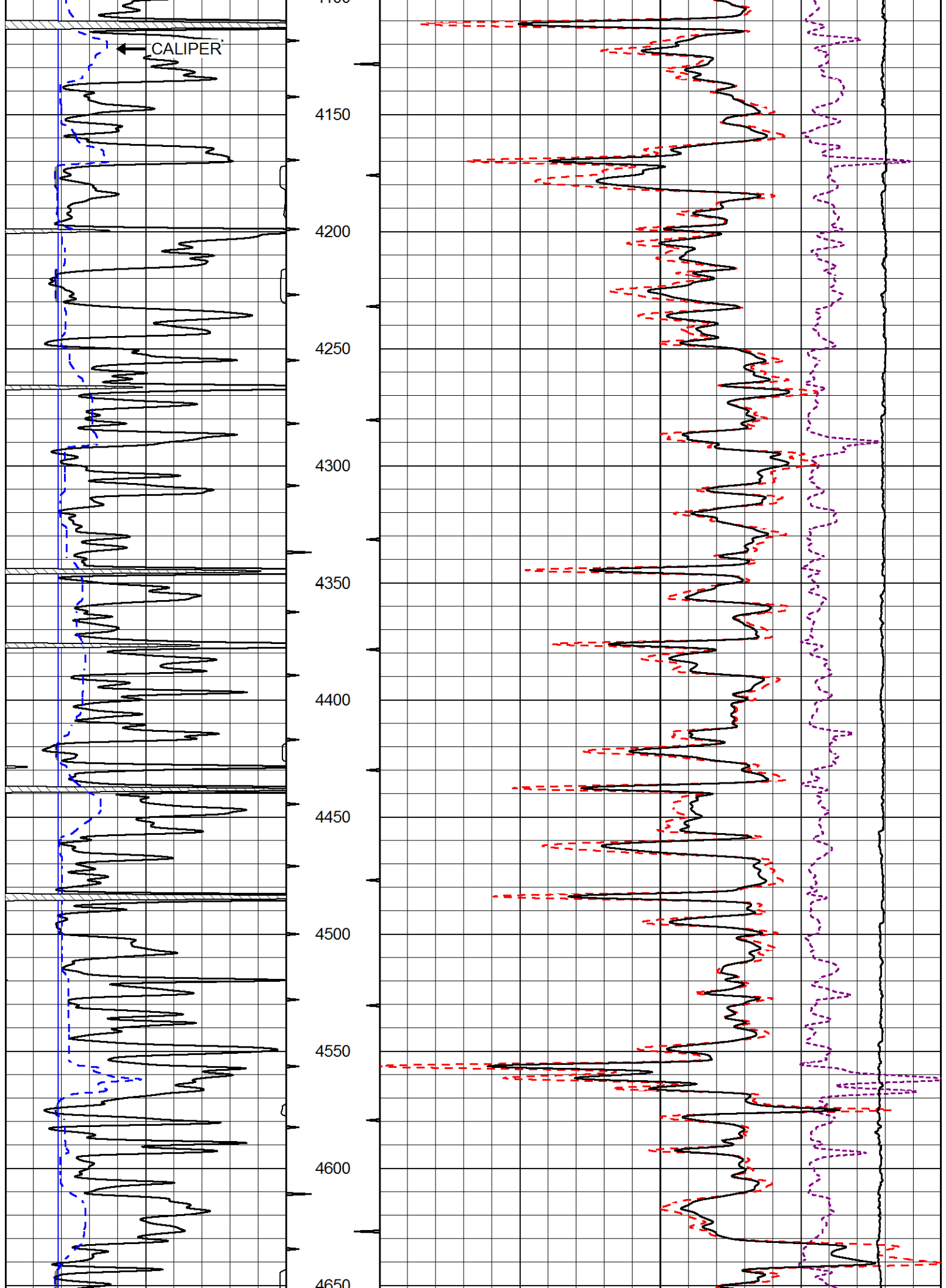
MAIN PASS

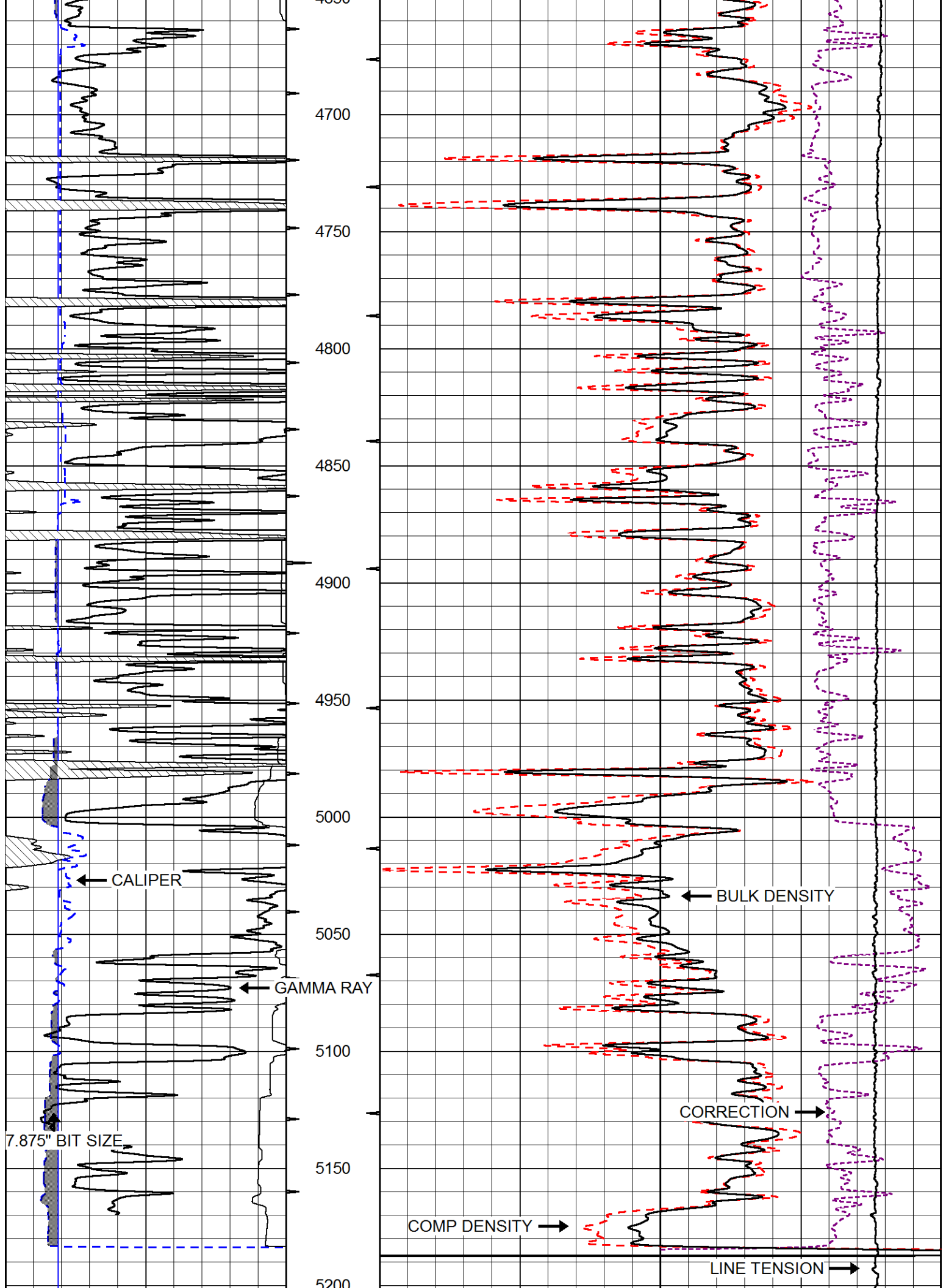
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 Dataset Pathname: STKML/pass3.1
 Presentation Format: cdl
 Dataset Creation: Fri Aug 11 13:20:09 2017
 Charted by: Depth in Feet scaled 1:600

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

Compensated Density (2.71 MA)	
30	(pu) -10
Bulk Density (g/cc)	
2	3
Line Tension (lb)	
15000	0
Correction (g/cc)	
-0.25	0.25







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

Compensated Density (2.71 MA)		
30	(pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
	-0.25 Correction (g/cc)	0.25

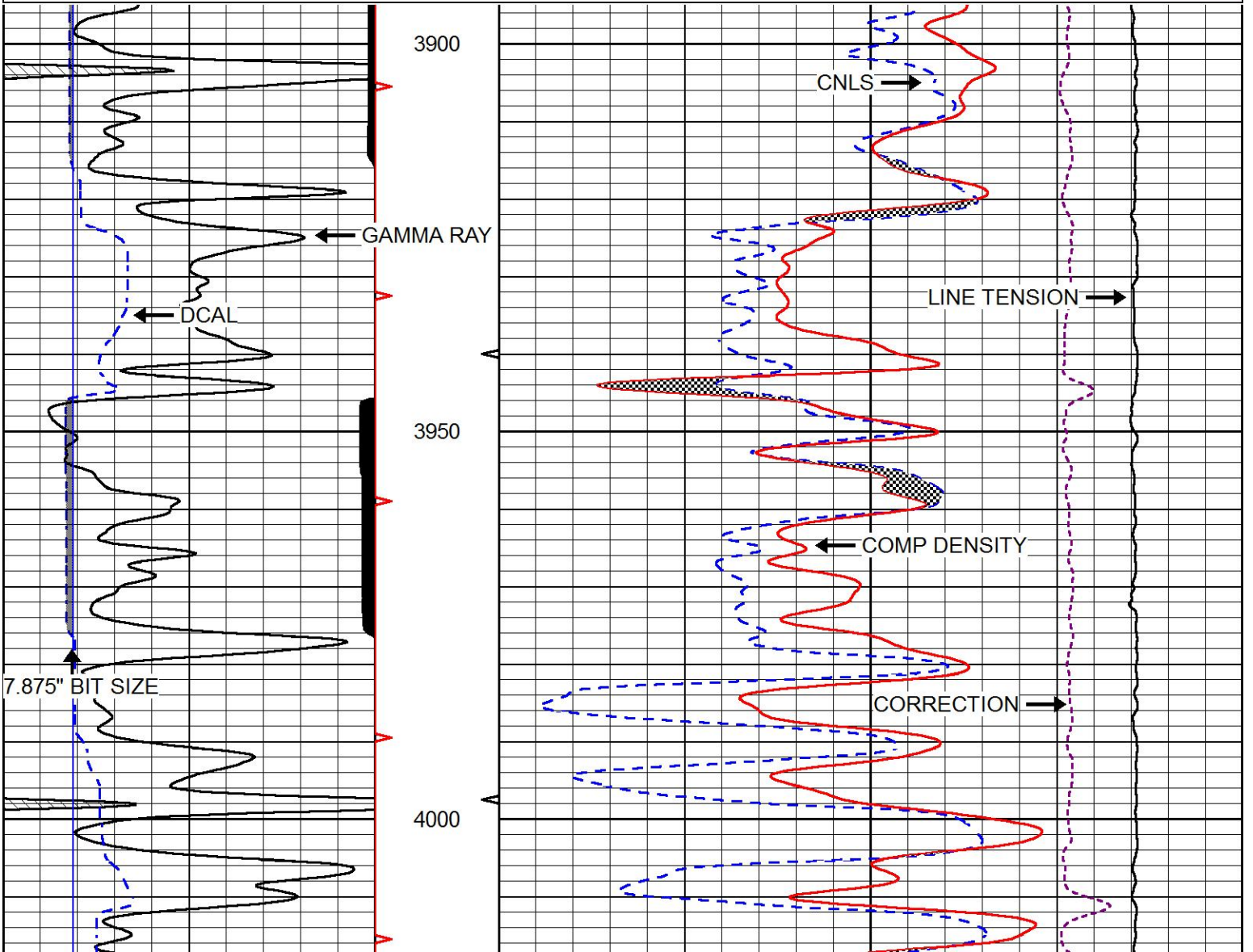


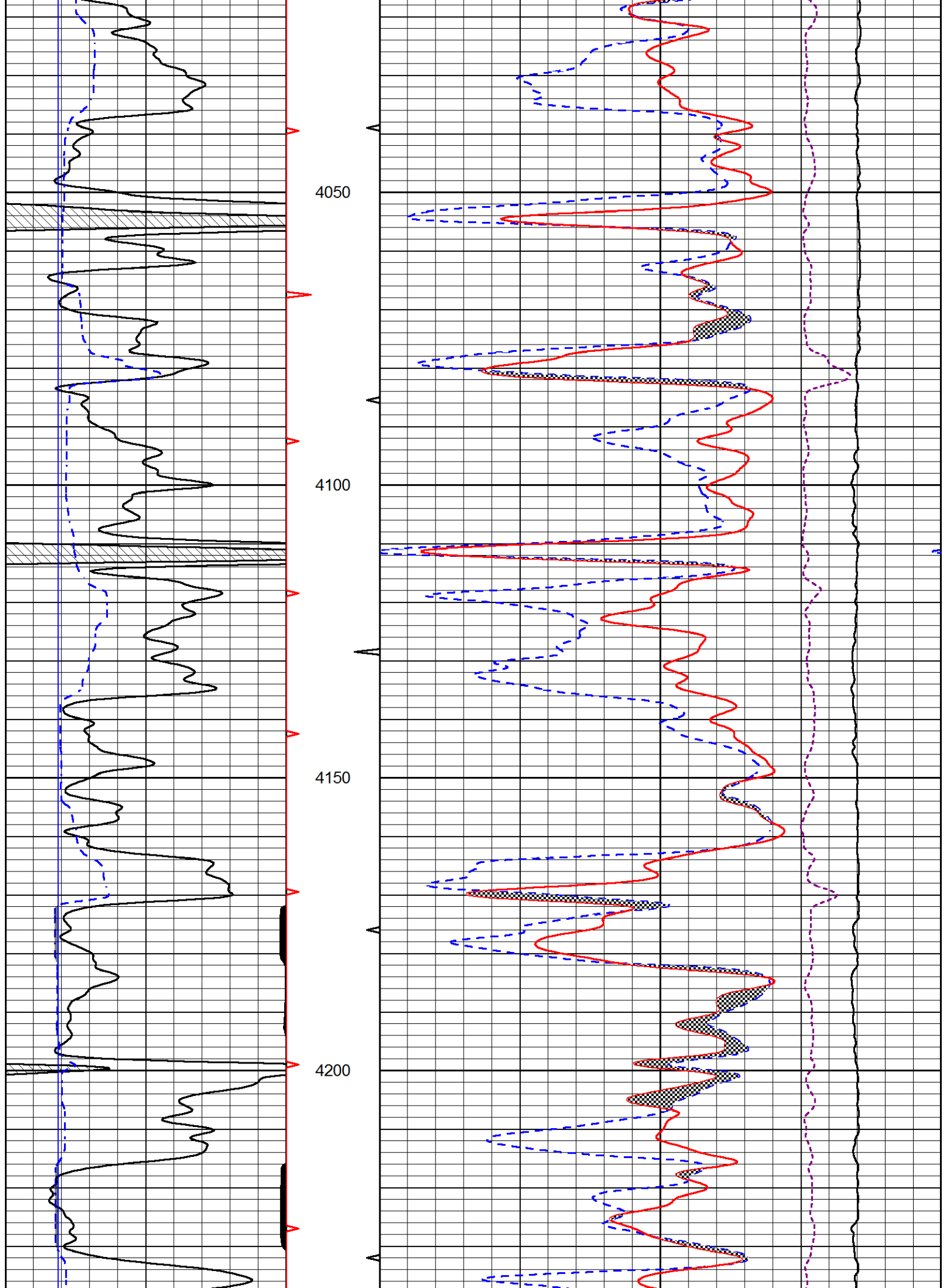
MAIN PASS

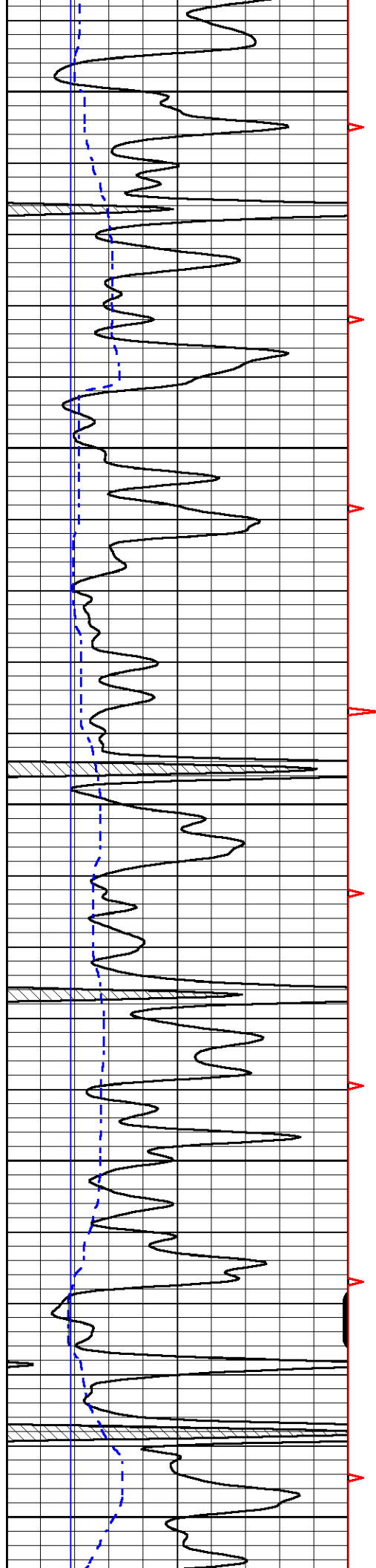
Database File: american_warrior_blaesi_9-6.db
 Dataset Pathname: STKML/pass3.1
 Presentation Format: cndlspec
 Dataset Creation: Fri Aug 11 13:20:09 2017
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	DCAL (in)	16

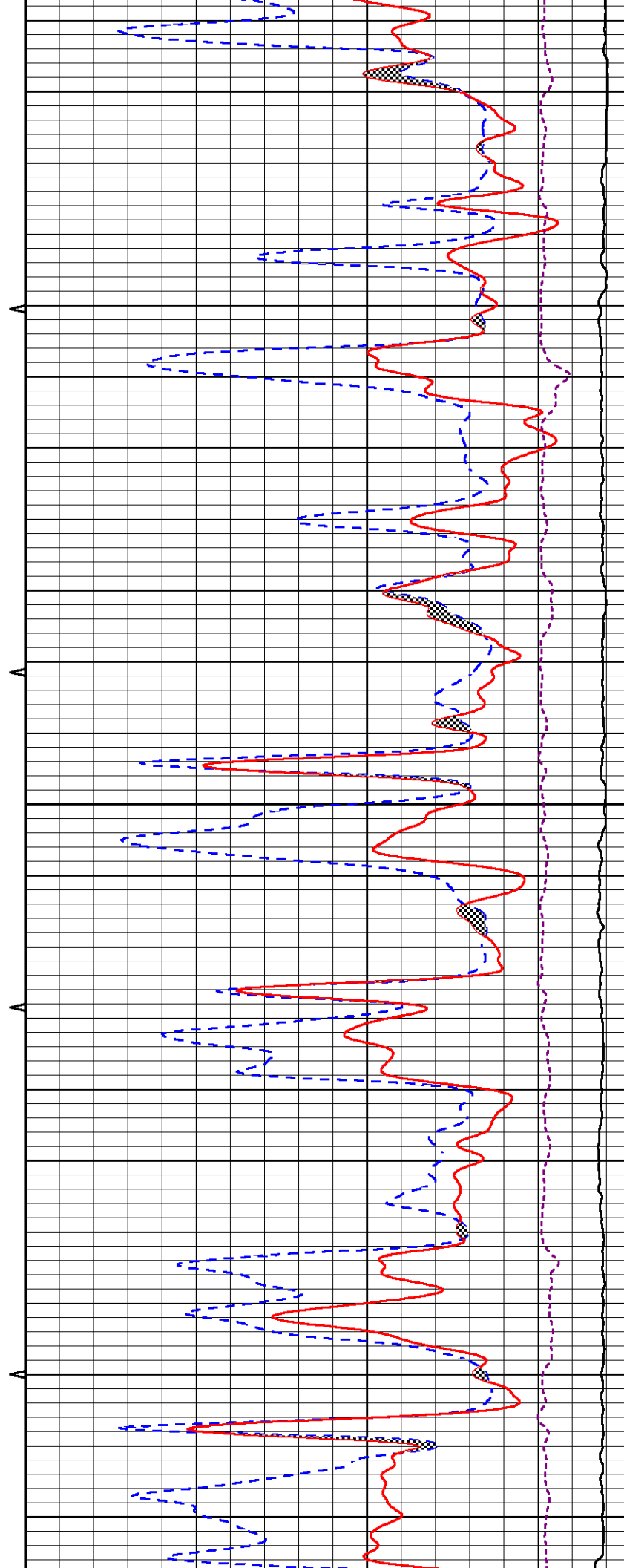
30	CNLS (pu)	-10
30	Compensated Density 2.71 g/cc (pu)	-10
10000	Line Tension (lb)	0
	-0.75 Correction (g/cc)	0.75

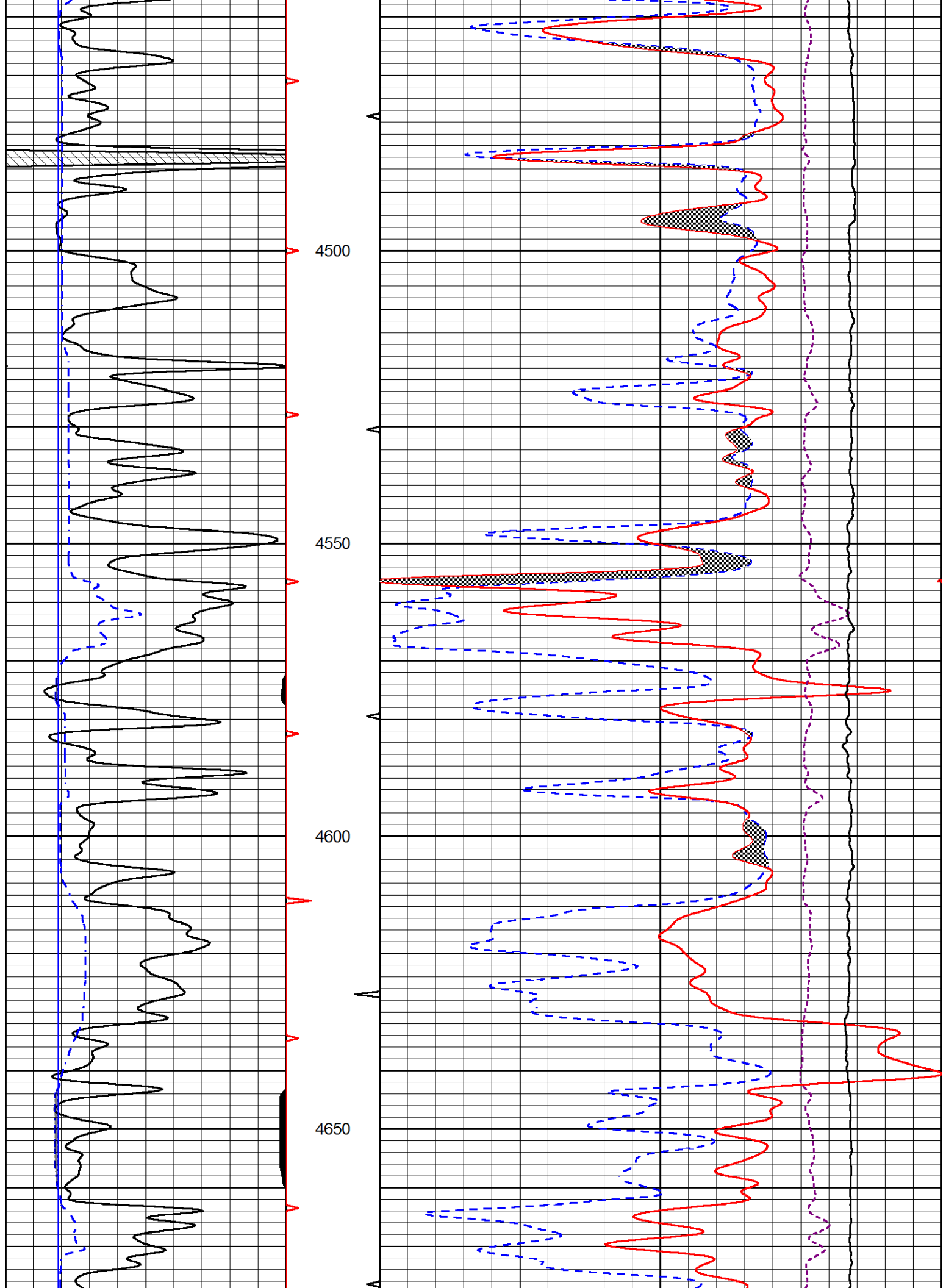


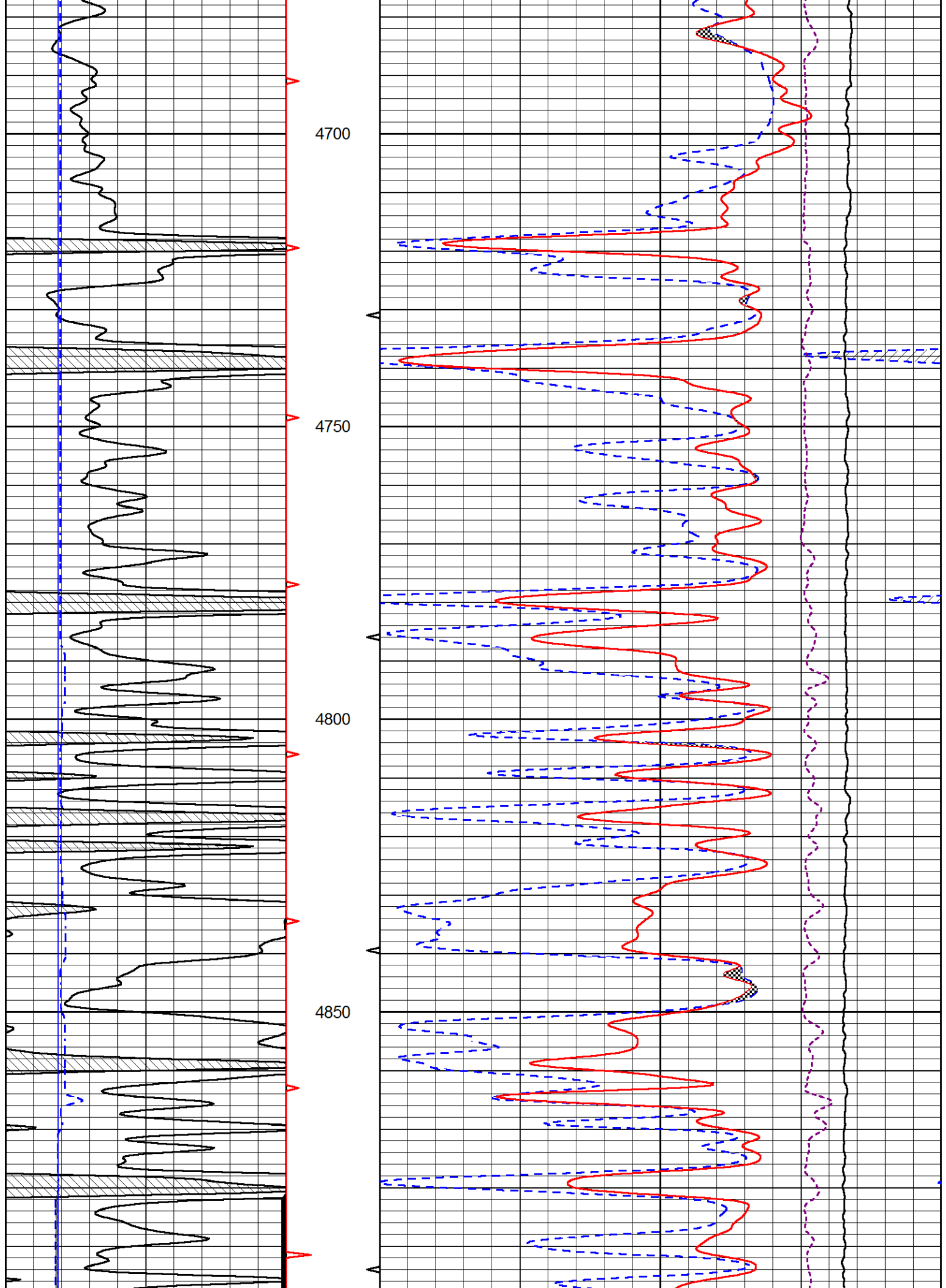


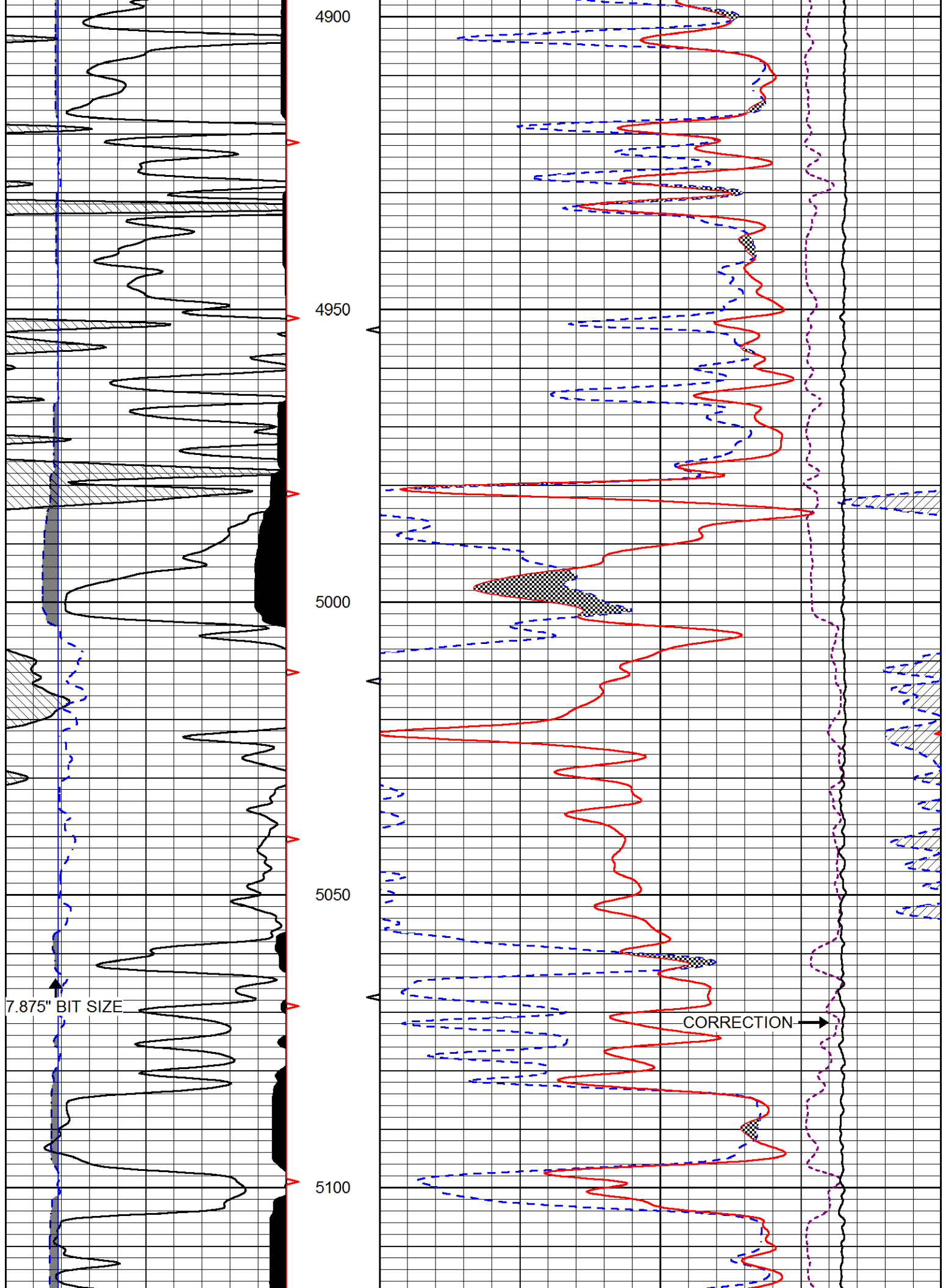


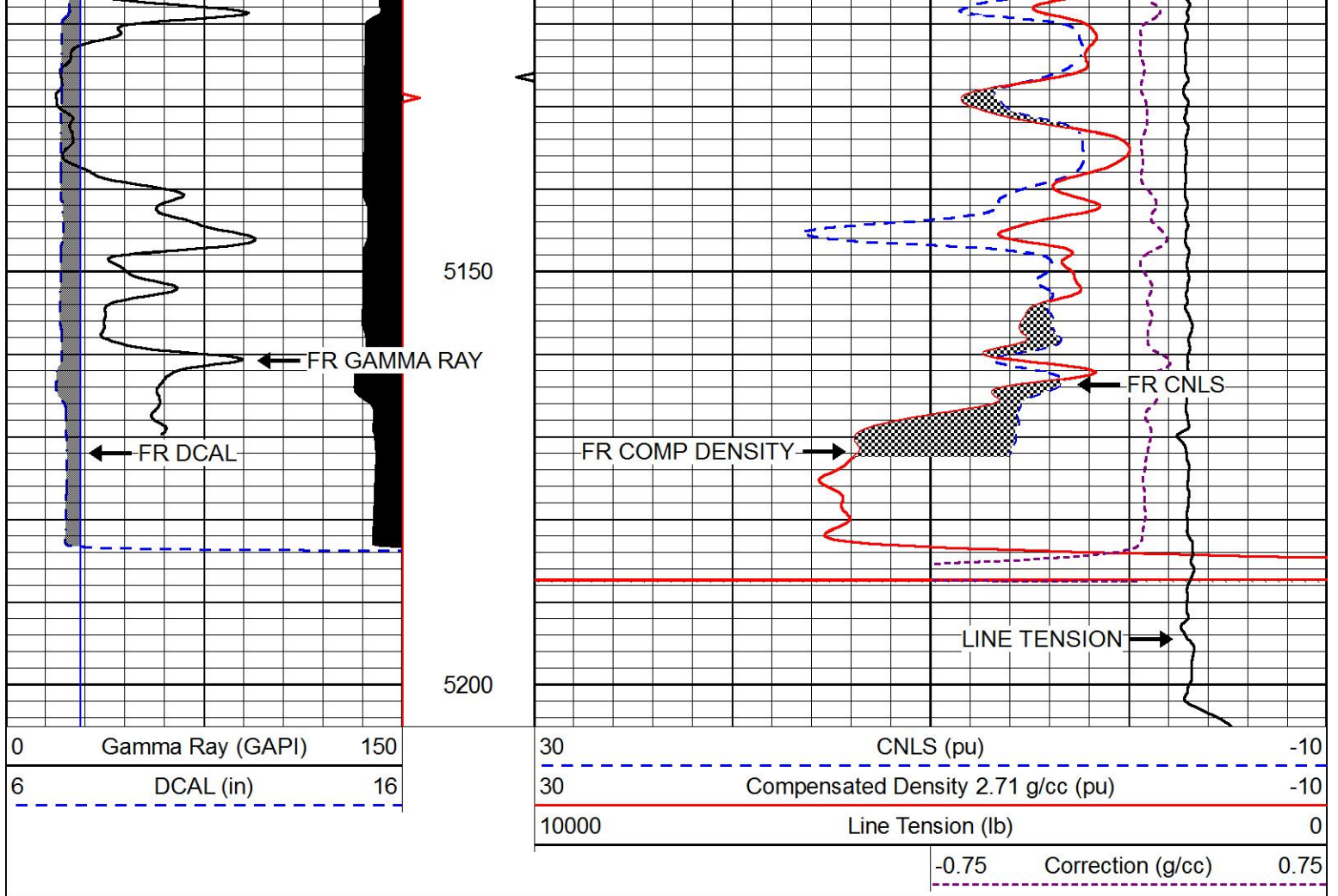
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4400
4450





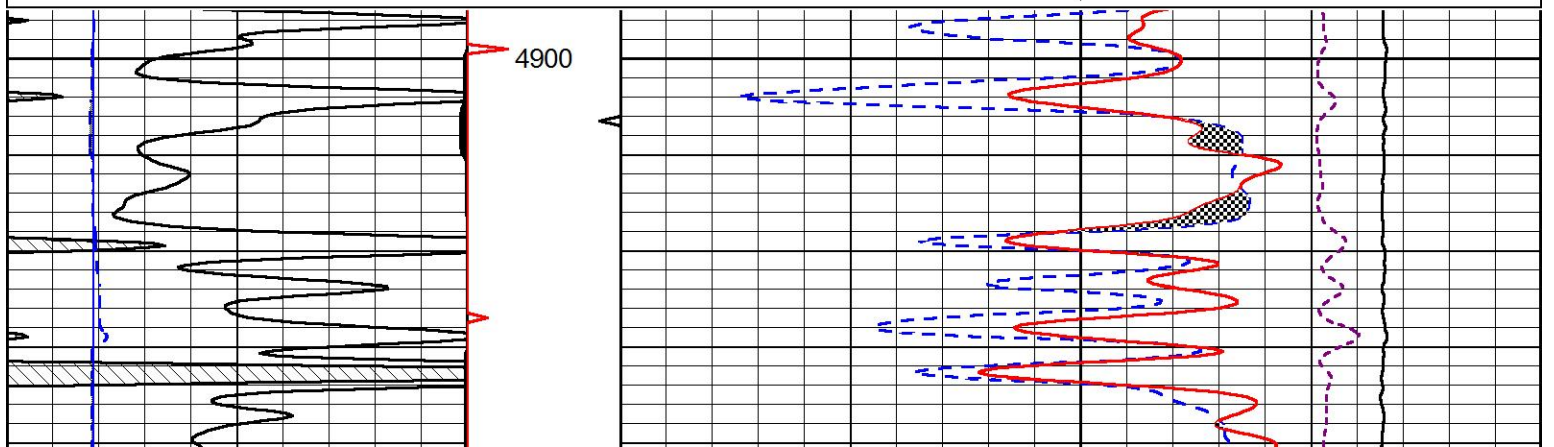
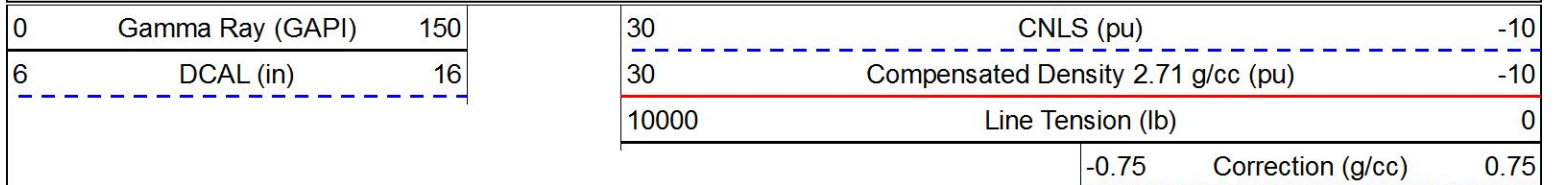


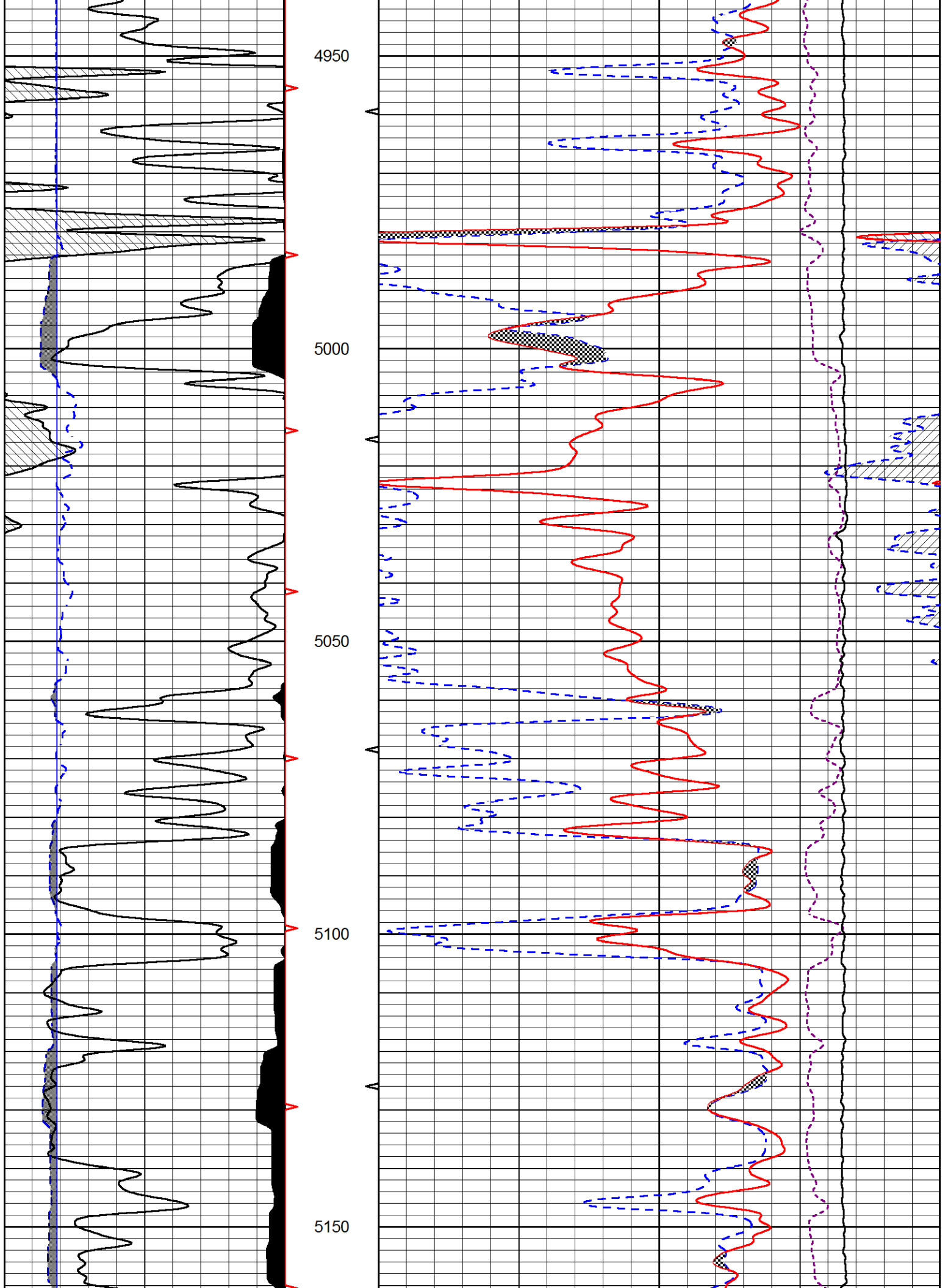


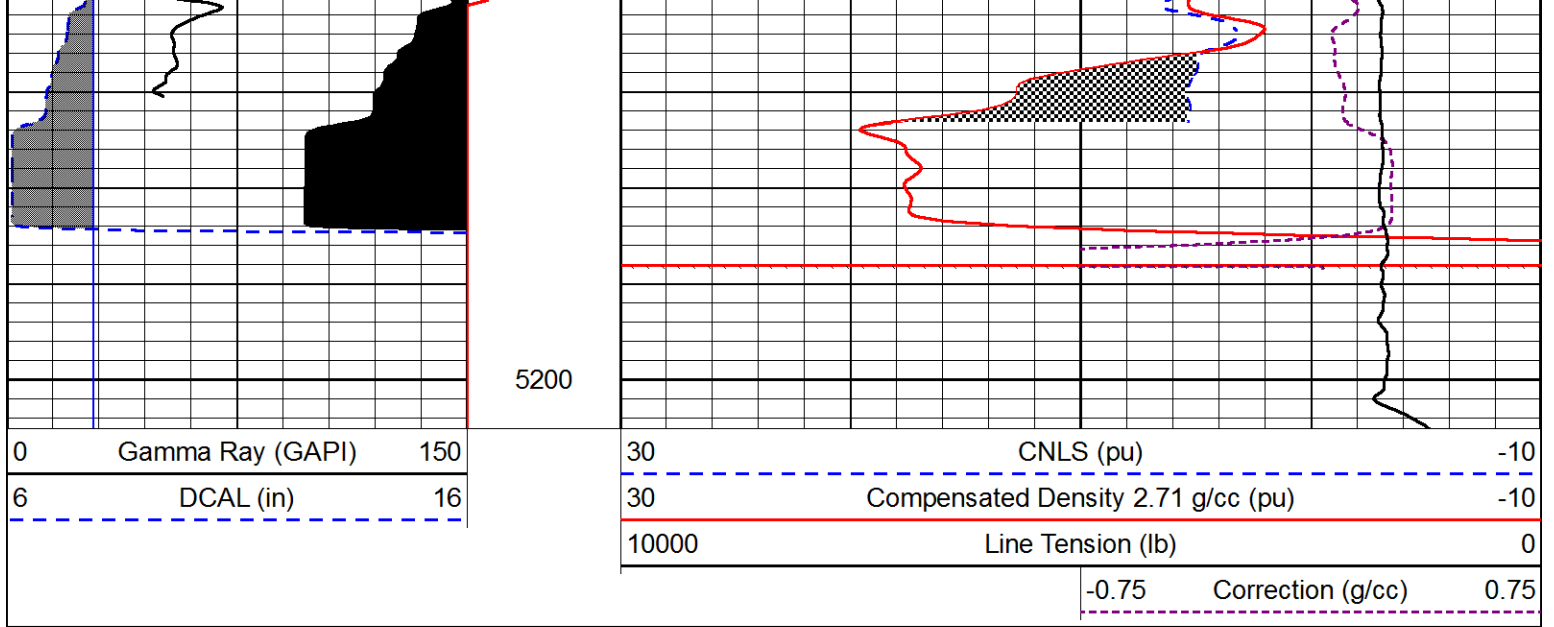


REPEAT SECTION

Database File american_warrior_blaesi_9-6.db
 Dataset Pathname STKML/pass2.1
 Presentation Format cndlspec
 Dataset Creation Fri Aug 11 13:26:14 2017
 Charted by Depth in Feet scaled 1:240







Calibration Report

Database File american_warrior_blaesi_9-6.db
 Dataset Pathname STKML/pass3.7
 Dataset Creation Fri Aug 11 12:48:38 2017

Dual Induction Calibration Report

Serial-Model: PSI 91-M&W
 Calibration Performed: Thu Aug 10 08:41:25 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.430	-32.000
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.360	-31.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Fri Aug 11 11:41:38 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	21500.0000	-0.6000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	26000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.3300

Compensated Density Calibration Report

Serial-Model: 90-1031-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Wed Aug 02 00:28:57 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4903.44	6153.79	cps

Aluminum 2.685 g/cc 934.50 4021.31 cps

Spine Angle = 75.61

Density/Spine Ratio = 0.543

	Size		Reading
Small Ring	8.00	in	1.84
Large Ring	22.00	in	1.46

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: Tues Aug 1 10:30:30 2017

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89
 Tool Model: M&W
 Calibration Performed: Wed Aug 02 00:29:15 2017

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps



PIONEER
 Pioneer Energy Services

Company AMERICAN WARRIOR, INC.
 Well BLAESI #9-6
 Field UNKNOWN
 County WALLACE
 State KANSAS



MICRORESISTIVITY LOG

Company: AMERICAN WARRIOR, INC.
 Well: BLAESI #9-6
 Field: UNKNOWN
 County: WALLACE
 State: KANSAS

Company: AMERICAN WARRIOR, INC.
 Well: BLAESI #9-6
 Field: UNKNOWN
 County: WALLACE
 State: KANSAS

Location: 335' FSL & 1800' FEL
 SEC 6 TWP 15S RGE 41W
 Permanent Datum: GROUND LEVEL Elevation 3775'
 Log Measured From: KELLY BUSHING
 Drilling Measured From: KELLY BUSHING
 Other Services: CNL/CDL DIL
 Elevation: K.B. 3783', D.F. N/A, G.L. 3775'

Date	8/11/2017
Run Number	ONE
Depth Driller	5200'
Depth Logger	5202'
Bottom Logged Interval	5201'
Top Log Interval	3900'
Casing Driller	8.625" @ 366'
Casing Logger	364'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	5000
Density / Viscosity	9.4 58
pH / Fluid Loss	9.5 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.60 @ 80
Rmt @ Meas. Temp	0.45 @ 80
Rmc @ Meas. Temp	0.81 @ 80
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.38 @ 128
Operating Rig Time	4 HOURS
Max Rec. Temp. F	128
Equipment Number	91
Location	HAYS
Recorded By	D. SCHMIDT
Witnessed By	LUKE THOMPSON

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

SHARON SPRINGS,
 9 WEST TO 9 RD, 8 SOUTH,
 WEST AND NORTH TO LOCATION

Log Measured From: KELLY BUSHING 8 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew Engineer: D. SCHMIDT Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: LUKE THOMPSON Secondary Witness: Secondary Witness: Secondary Witness:
--	--

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	500	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	5202	128	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (90-1031)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

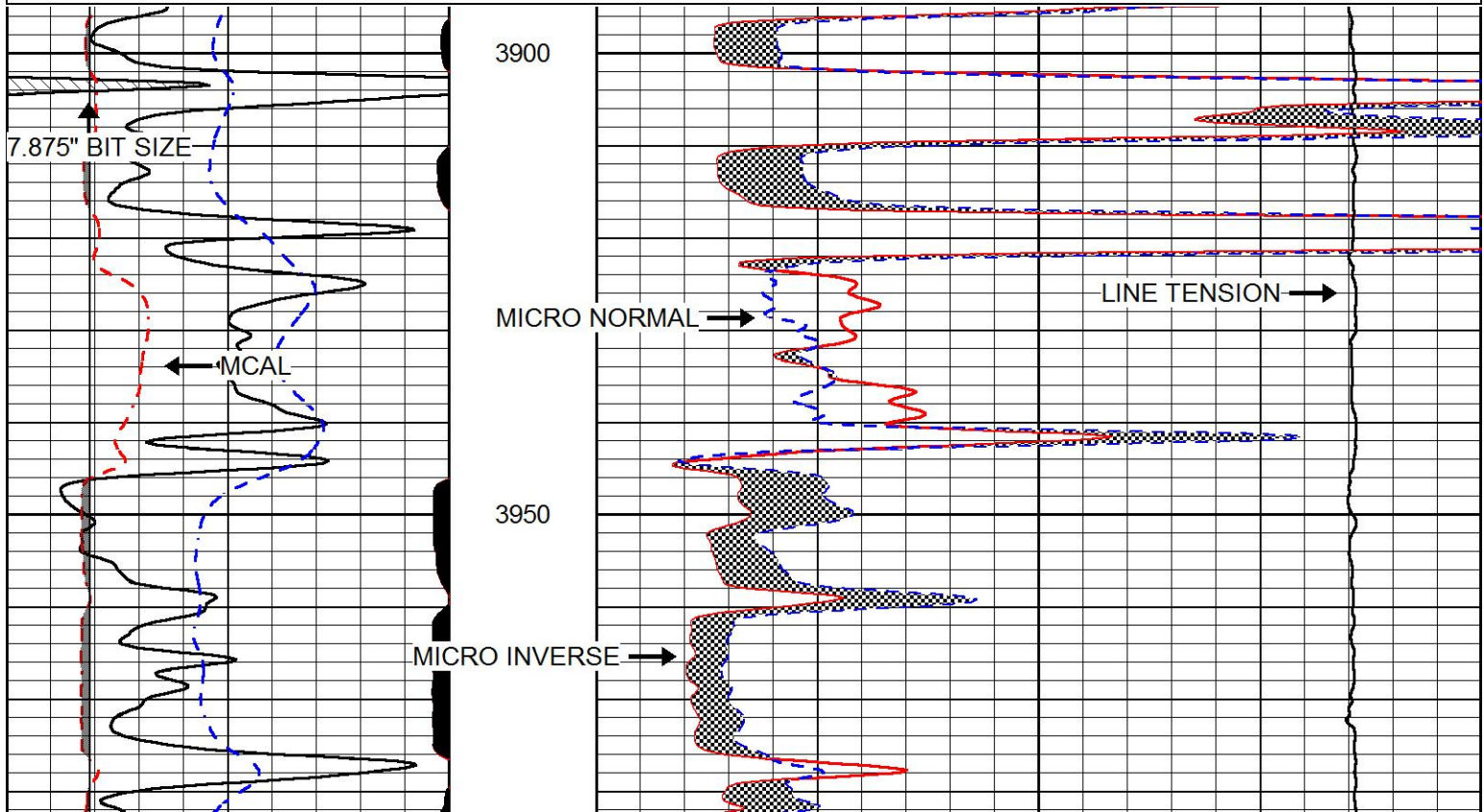
			DIL-M&W (PSI 91)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					
Dataset:			american warrior_blaesi_9-6.db: field/well/STKML/pass3.7			
Total length:			43.08 ft			
Total weight:			685.00 lb			
O.D.:			4.00 in			

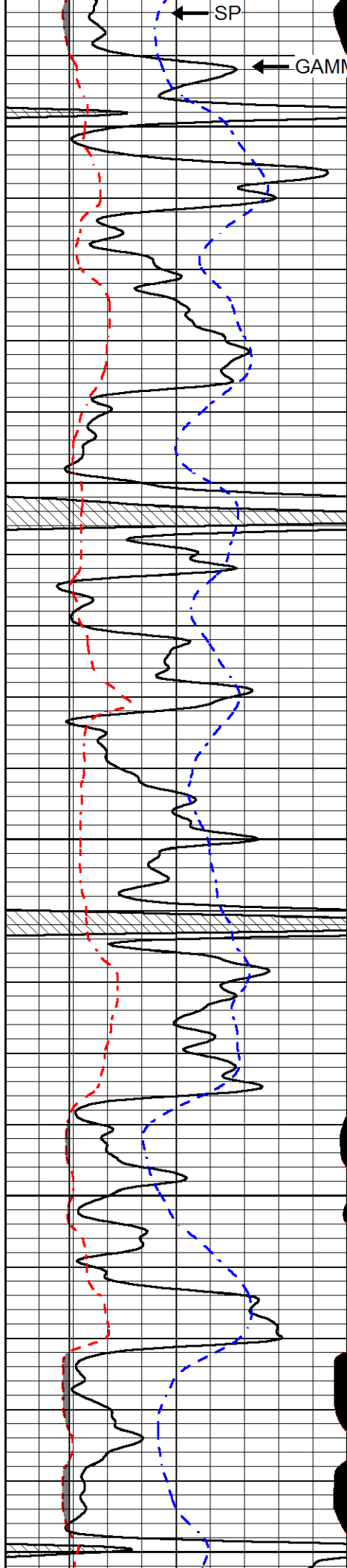


MAIN PASS

Database File	american warrior_blaesi_9-6.db
Dataset Pathname	STKML/pass3.1
Presentation Format	micro
Dataset Creation	Fri Aug 11 13:20:09 2017
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0	Micro Inverse 1 X 1 (Ohm-m)	40
6	MCAL (in)	16	0	Micro Normal 2" (Ohm-m)	40
2.875	mc (in)	7.875	10000	Line Weight (lb)	0
6	Bit Size (in)	16			
-200	SP (mV)	0			





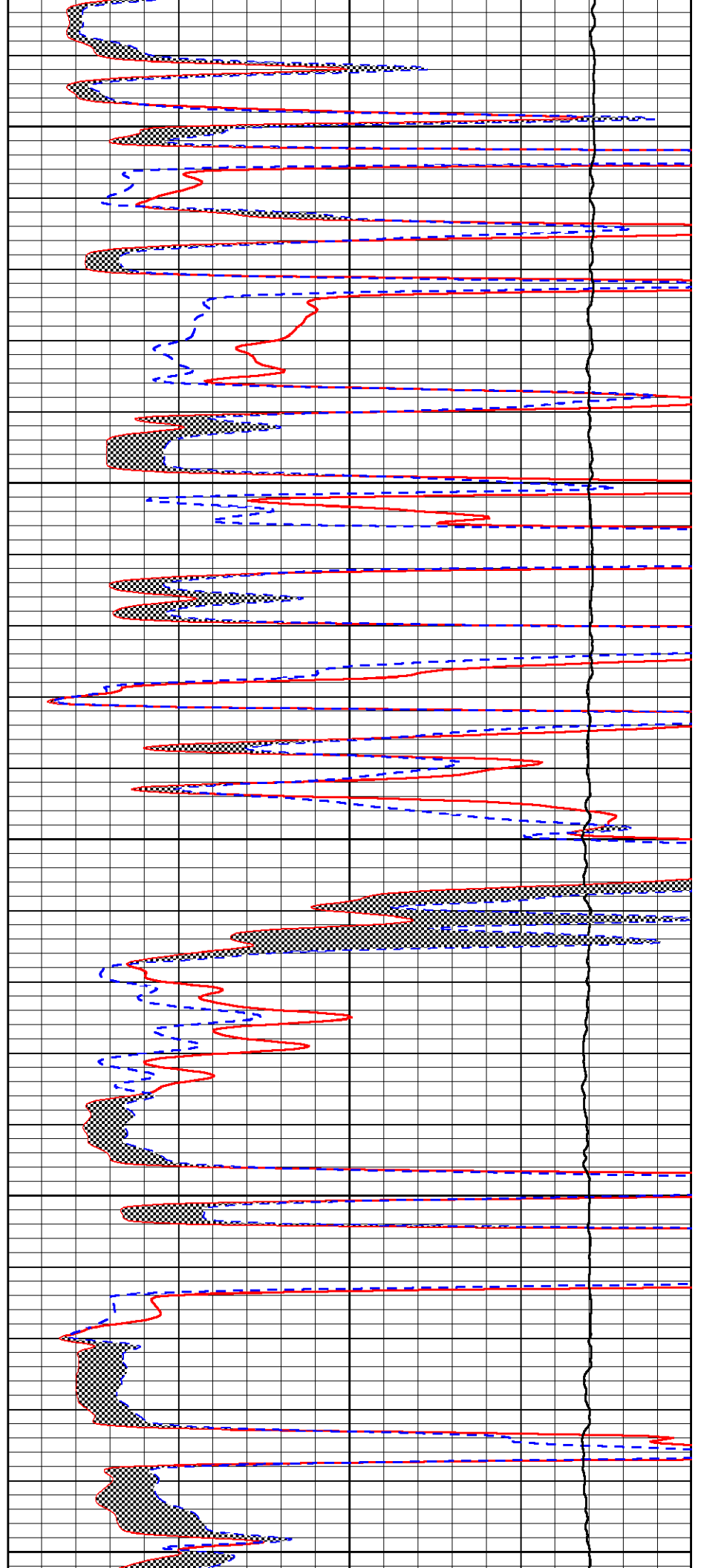
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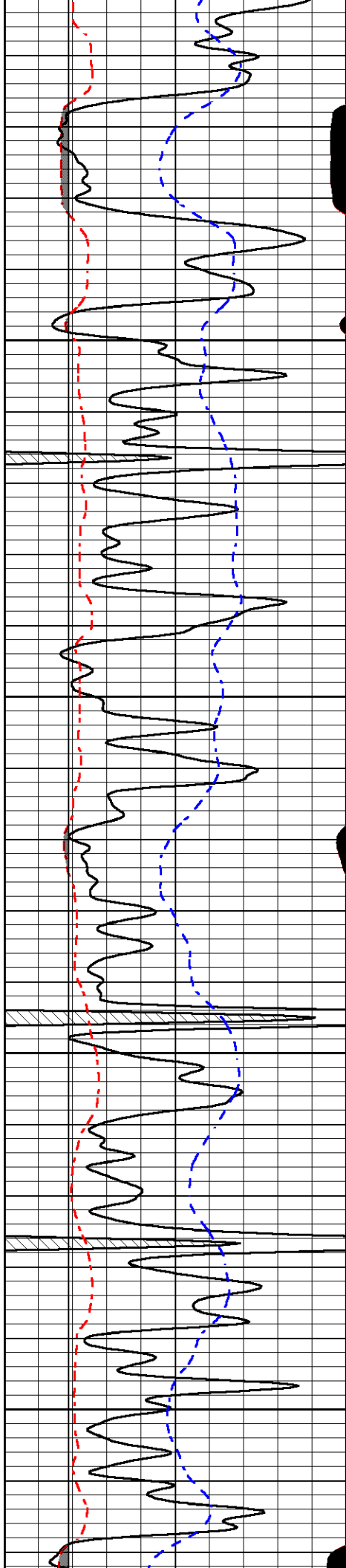
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4100

4150

4200



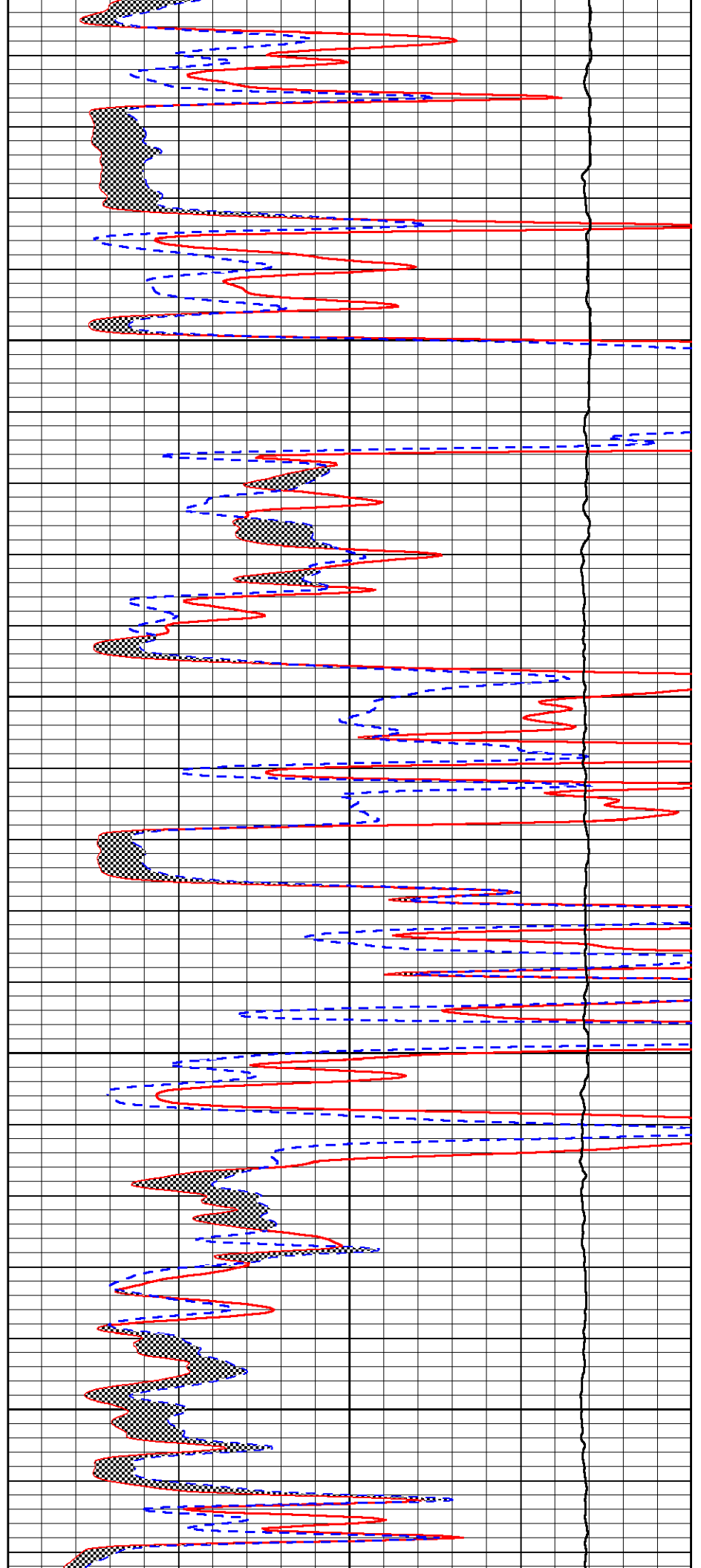


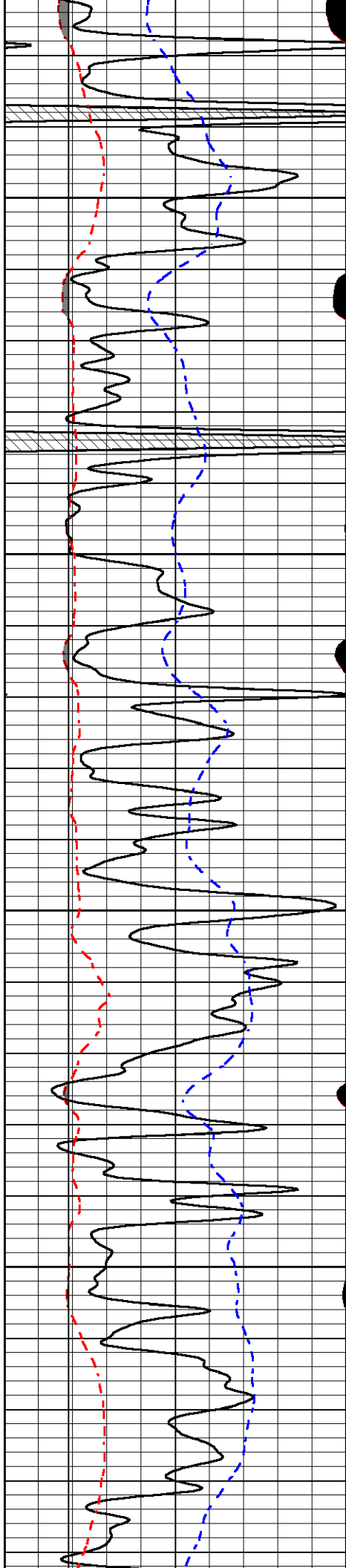
4250

4300

4350

4400



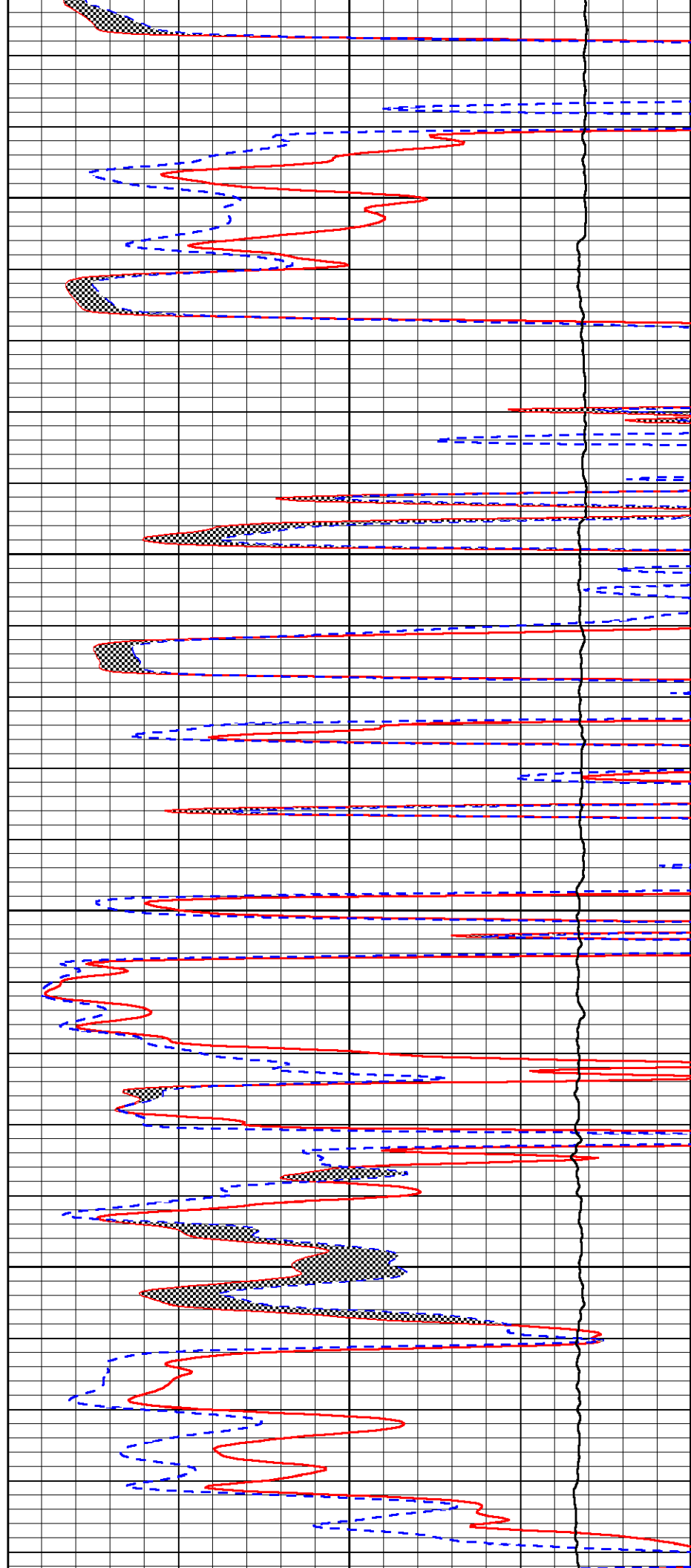


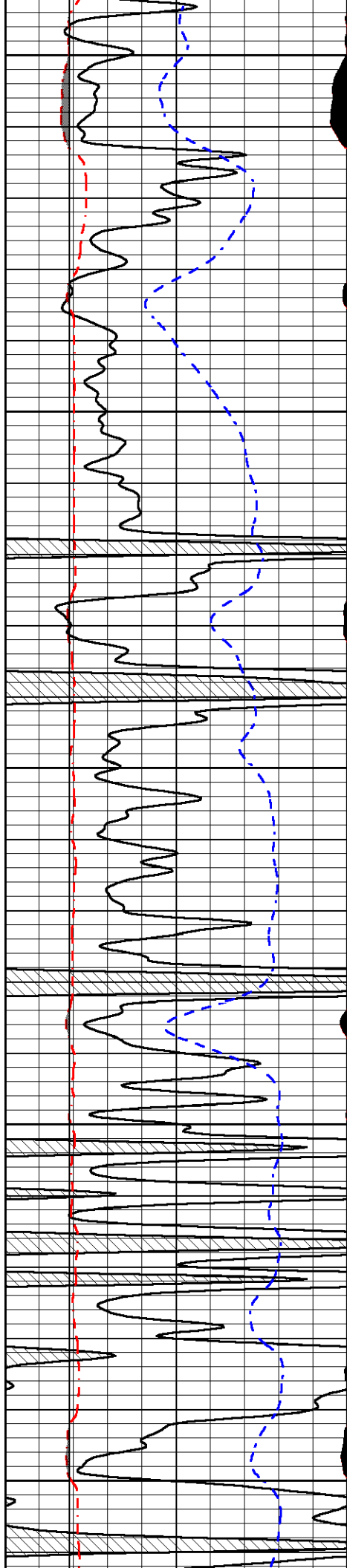
4450

4500

4550

4600





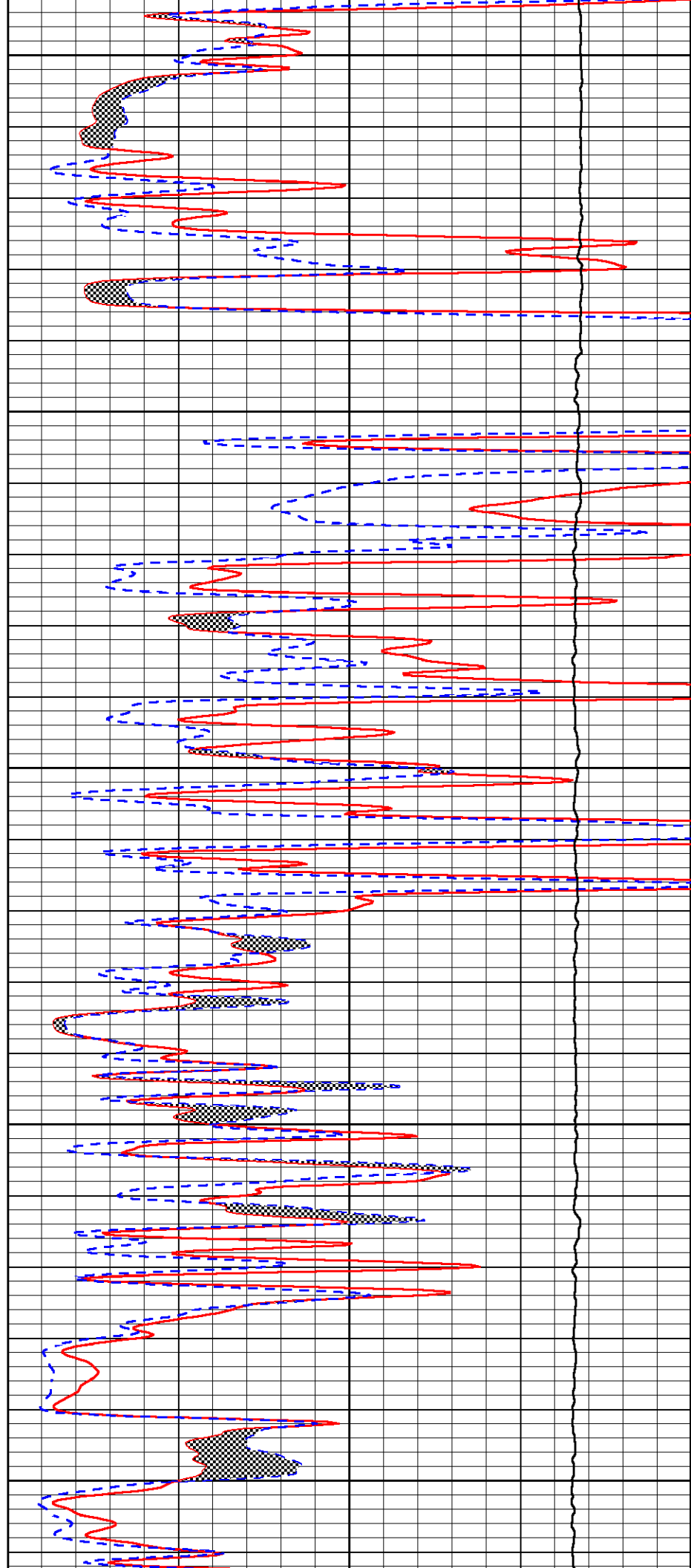
4650

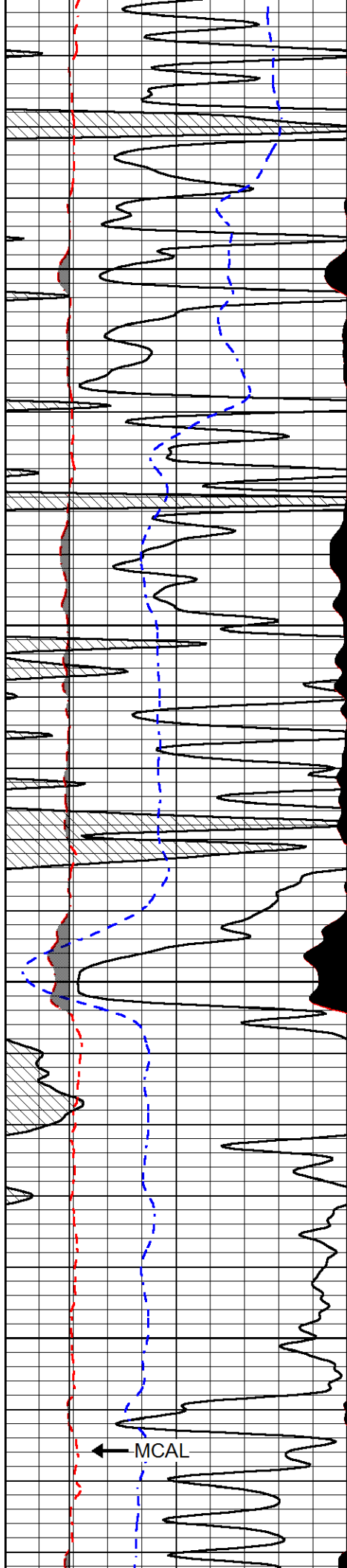
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4750

4800

4850





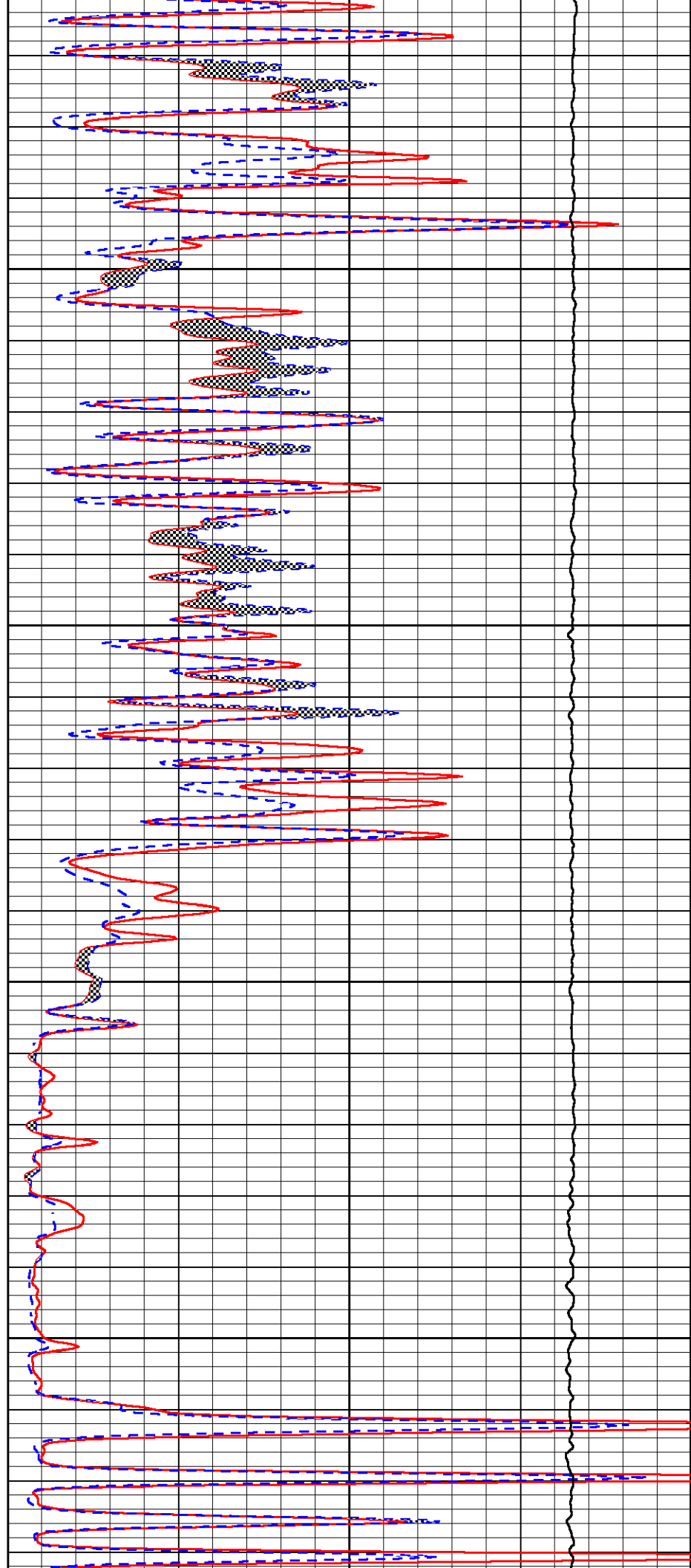
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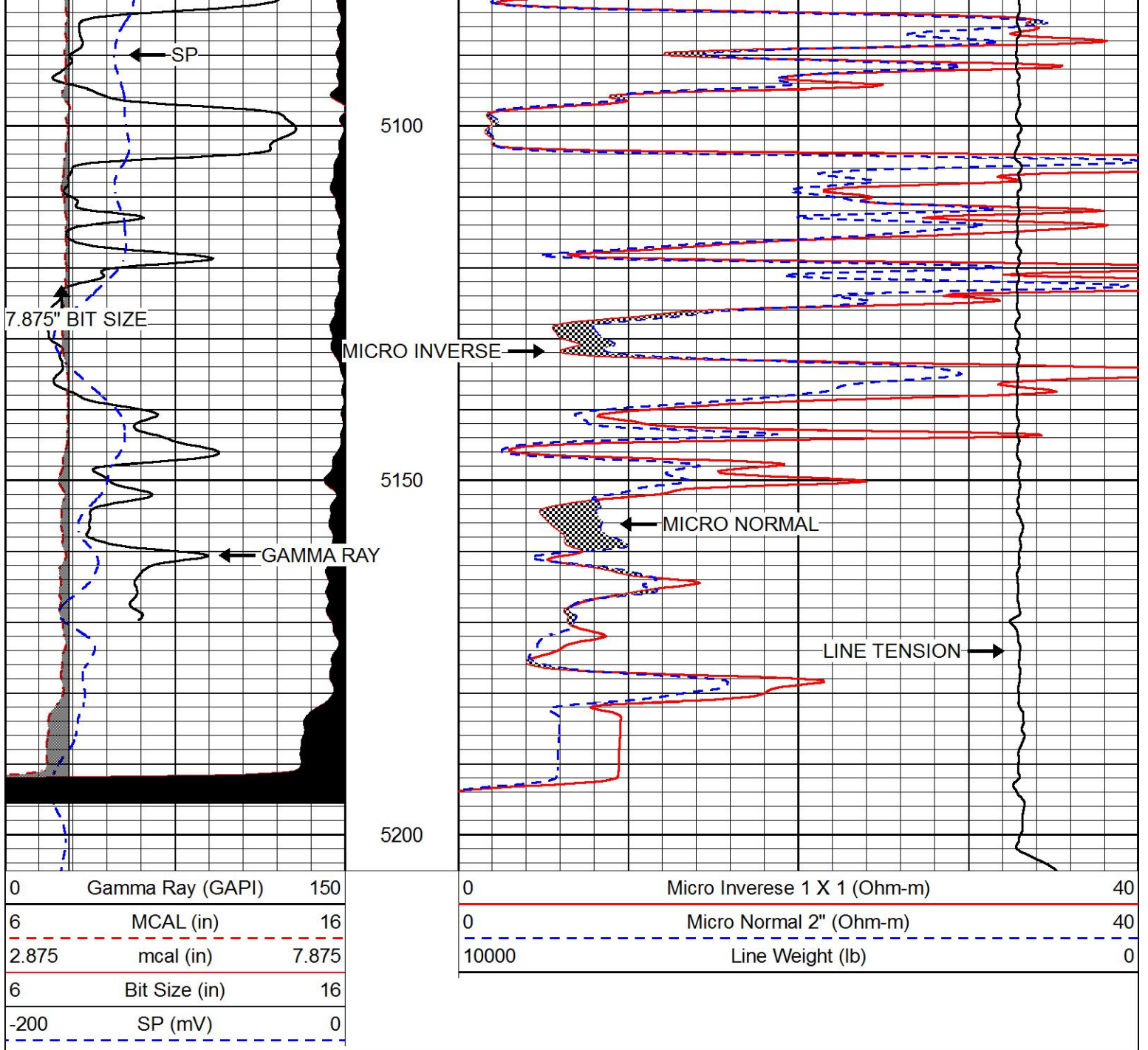
4950

5000

5050

← MCAL



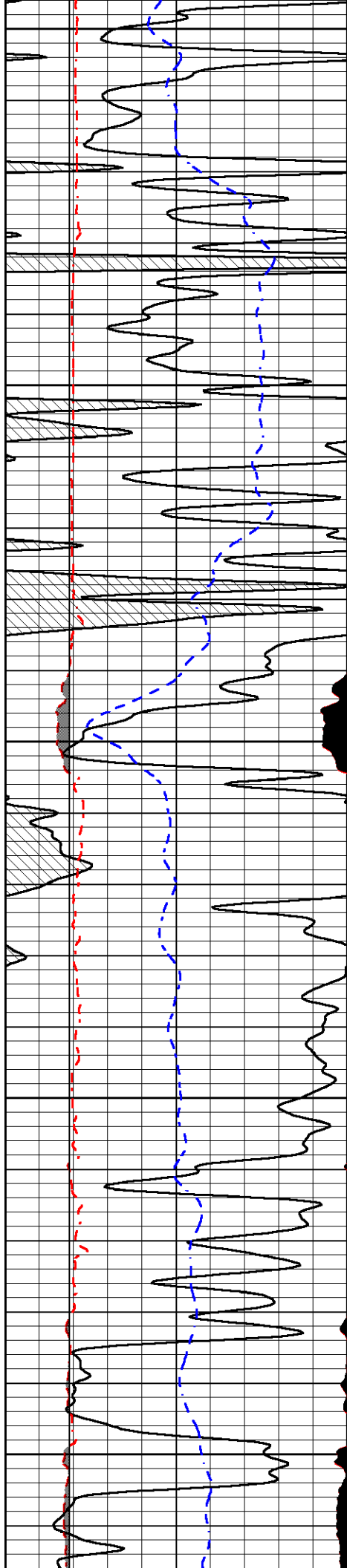


REPEAT SECTION

Database File american_warrior_blaesi_9-6.db
 Dataset Pathname STKML/pass2.1
 Presentation Format micro
 Dataset Creation Fri Aug 11 13:26:14 2017
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcAl (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



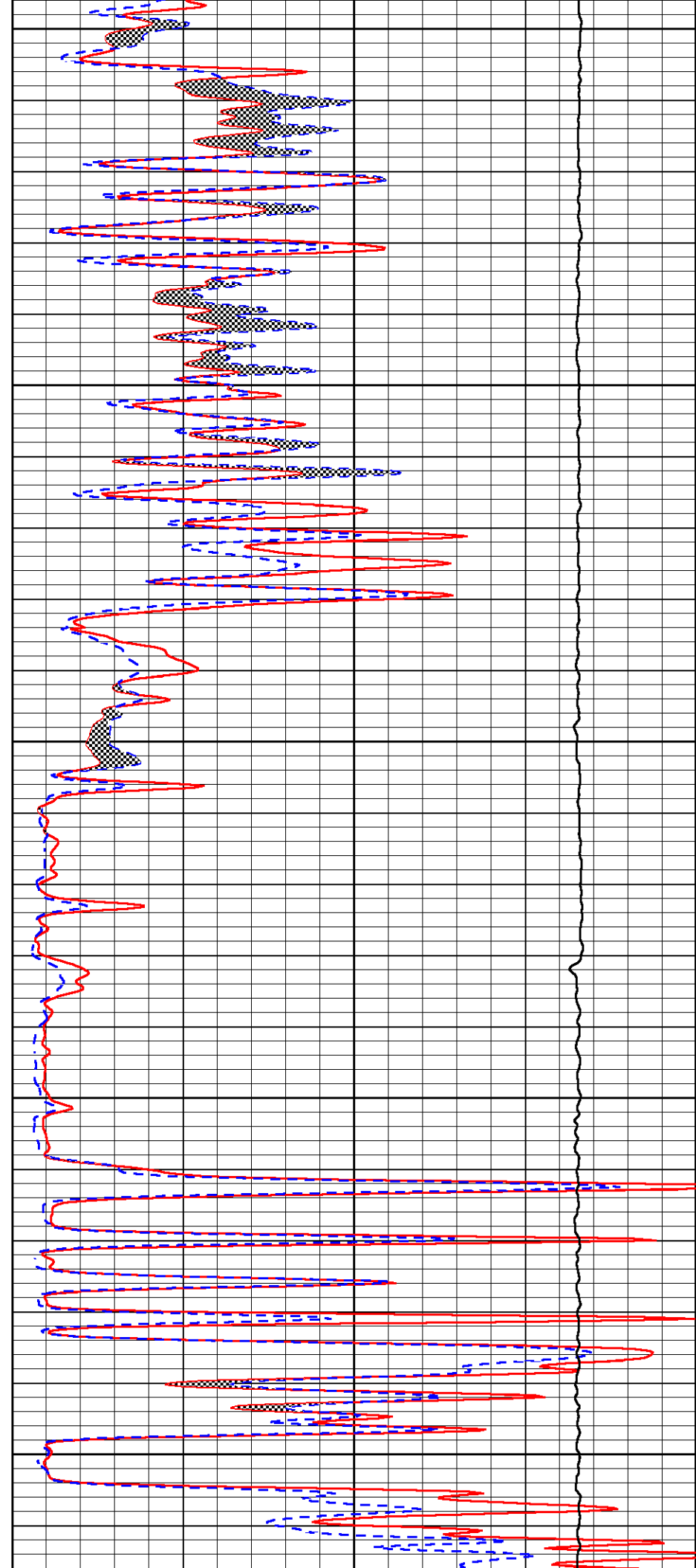
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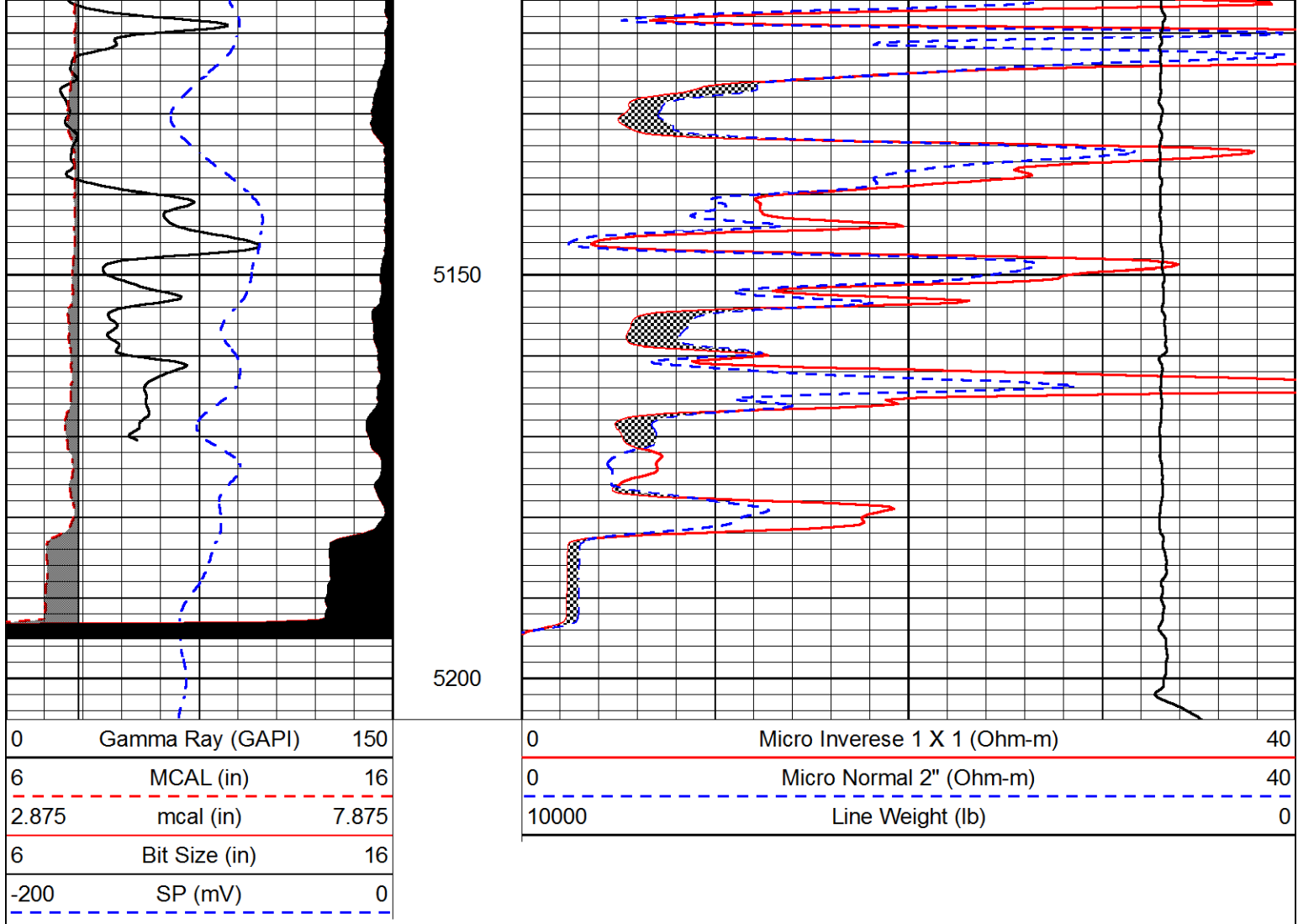
4950

5000

5050

5100





Calibration Report

Database File american_warrior_blaesi_9-6.db
 Dataset Pathname STKML/pass3.7
 Dataset Creation Fri Aug 11 12:48:38 2017

Dual Induction Calibration Report

Serial-Model: PSI 91-M&W
 Calibration Performed: Thu Aug 10 08:41:25 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.430	-32.000
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.360	-31.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Fri Aug 11 11:41:38 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	21500.0000	-0.6000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	26000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	97.3300

Compensated Density Calibration Report

Serial-Model: 90-1031-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Wed Aug 02 00:28:57 2017

Master Calibration

	<u>Density</u>		<u>Far Detector</u>	<u>Near Detector</u>	
Magnesium	1.755	g/cc	4903.44	6153.79	cps
Aluminum	2.685	g/cc	934.50	4021.31	cps
	Spine Angle = 75.61			Density/Spine Ratio = 0.543	
	<u>Size</u>		<u>Reading</u>		
Small Ring	8.00	in	1.84		
Large Ring	22.00	in	1.46		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: Tues Aug 1 10:30:30 2017

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89
 Tool Model: M&W
 Calibration Performed: Wed Aug 02 00:29:15 2017

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps



PIONEER
 Pioneer Energy Services

Company AMERIAN WARRIOR, INC.
 Well BLAESI #9-6
 Field UNKNOWN
 County WALLACE
 State KANSAS