

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

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

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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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BASICSM
ENERGY SERVICES
 PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
 P.O. Box 8613
 Pratt, Kansas 67124
 Phone 620-672-1201

FIELD SERVICE TICKET
 1718 16298 A

DATE _____ TICKET NO. _____

DATE OF JOB: <u>4-20-18</u> DISTRICT		NEW WELL <input type="checkbox"/> OLD WELL <input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER: <u>R & B OIL & GAS, INC.</u>		LEASE: <u>GOETZ "A"</u>				WELL NO. <u>1</u>			
ADDRESS		COUNTY: <u>KINGMAN</u>		STATE: <u>Ks.</u>					
CITY		STATE		SERVICE CREW: <u>Lesley McBRAD MARQUEZ</u>					
AUTHORIZED BY		JOB TYPE: <u>Z42 8 5/8 S.P.</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>4-19-18</u>	DATE	AM	TIME
<u>51077</u>	<u>1.5</u>								<u>8:00</u>
<u>21010</u>	<u>1.5</u>								<u>10:00</u>
									<u>12:30</u>
									<u>1:00</u>
									<u>1:30</u>
									MILES FROM STATION TO WELL

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: DUSTY DIX
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 POT	SK	175		2,100.00
CC 106	CEIL FLAKE	lb	44		168.80
CC 109	CALCIUM CHLORIDE	lb	453		475.65
F 100	PICKUP MILEAGE	MI	35		157.50
F 101	HEAVY EQUIPMENT MILEAGE	MI	70		525.00
F 113	ROLL DELIVERY CHARGE	TRM	264		660.63
CF 220	DEPTH CHARGE 0-500'	HR	1.4		1,000.00
CF 240	BLENDING MIXING CHARGE	SK	175		245.00
S 003	SERVICE SUPERVISOR	EA	1		175.00

SUB TOTAL 5,501.58

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<u>3,135.96</u>

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: DUSTY DIX
 FIELD SERVICE ORDER NO. _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

BASIC

energy services, L.P.

TREATMENT REPORT

Customer R&B OIL PAHS	Lease No.	Date 4-17-2018
Lease GOETZ "A"	Well # 1	
Field Order # 110298	Station PRATT, KS.	Casing 5 7/8" TD
Type Job 8 5/8" S.P.	Depth 245'	County KINGMAN
	Formation	State KS
		Legal Description B-305-9W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft	CMT-	Acid-	RATE	PRESS	ISIP	
5 7/8" x 24"				175 SK 60/40 POZ			5 Min.	
Depth 245'	Depth	From	To	Pre Pad @ 1.21 CU FT	Max			
Volume 15.5 BBL	Volume	From	To	Pad	Min		10 Min.	
Max Press 500	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection S.V.	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 225'	Packer Depth	From	To	Flush 14.3 BBL	Gas Volume		Total Load	

Customer Representative: JUSTIN Station Manager: J.W. Treater: K. LESLEY

Service Units	46531	71686	86779	19889	21010
Driver Names	LESLEY	MCGRAW	MARQUEZ		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
10:00 PM					ON LOCATION - SAFETY MEETING
10:54 PM					RUN IN ITS-8 5/8" x 24" CSG.
12:15 AM	4-20-18				PSG. ON BOTTOM
12:30 AM	150		5	5	HOOK UP TO CSG / BREAK CIRC. W/ RIG
12:33 AM	100		38	5	H30 AHEAD
12:40 AM	0		0	5	MIX 175 SKS 60/40 POZ @ 14.8 PPG
12:43 AM	125		10	3	START DISPLACEMENT
12:45 AM	150		14.3	2	SLOW RATE
					CMT @ DESIRED DEPTH
					CIRC THRU JOB
					CIRC. 15 BBL TO PIT
					JOB COMPLETE,
					THANKS -
					KEVEN / LESLEY

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY R & B Oil and Gas, Inc.

LEASE Goetz 'A' #1

FIELD Spivey-Grabs

LOCATION 1090' FNL & 660' FEL

SEC 18 TWSP 30S RGE 9W

COUNTY Kingman STATE Kansas

CONTRACTOR WW Drilling Rig #4

SPUD 4-19-2018 COMP 4-25-2018

RTD 4200 LTD 4201

MUD UP 2845 TYPE MUD Chemical

SAMPLES SAVED FROM 2460 TO RTD

DRILLING TIME KEPT FROM 2450 TO RTD

SAMPLES EXAMINED FROM 2460 TO RTD

GEOLOGICAL SUPERVISION FROM 2300 to RTD

GEOLOGIST ON WELL Tim Pierce

ELEVATIONS

KB 1700'

DF _____

GL 1705'

Measurements Are All
From Kelly Bushing

CASING

CONDUCTOR _____

SURFACE 8-5/8" at 245'

PRODUCTION None

ELECTRICAL SURVEYS

DIL / DuCP

Pioneer Energy Svcs.

FORMATION TOPS

ELECTRIC LOG

SAMPLE

Onaga Sh. 2490 (-784)

Topoka LS 3050 (-1344)

Heebner Sh. 3372 (-1762)

Lansing 3628 (-2018)

Stark Sh. 4030 (-2420)

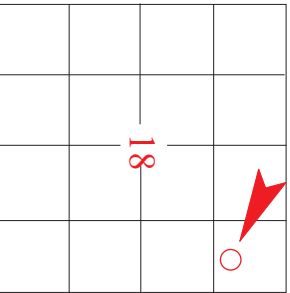
2495 (-790)

3051 (-1346)

3460 (-1755)

3691 (-1986)

4057 (-2352)

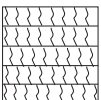


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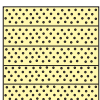
REMARKS Due to negative drill stem results this well was plugged and abandoned on 4-25-2018

Timothy G. Pierce

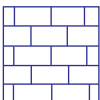
LEGEND



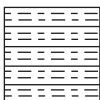
Anhydrite



Sandstone



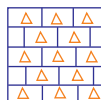
Limestone



Shale



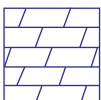
Carb Sh



Cherty LS



Chert



Dolomite

DRILLING TIME IN
MINUTES PER FOOT

Rate of Penetration Decreases



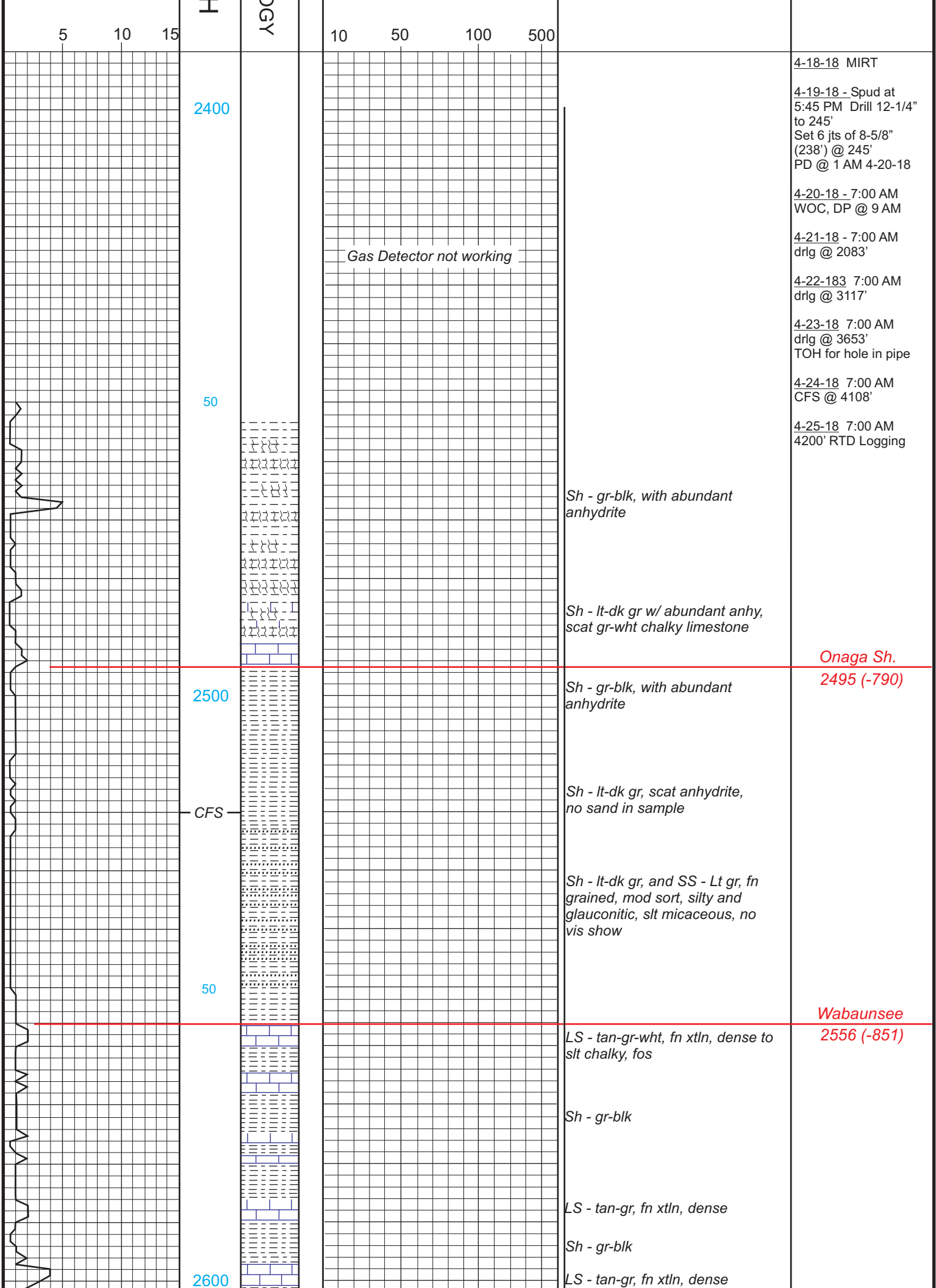
DEPTH

LITHOLOG

GAS SCALE

SAMPLE DESCRIPTION

REMARKS



4-18-18 MIRT
 4-19-18 - Spud at 5:45 PM Drill 12-1/4" to 245' Set 6 jts of 8-5/8" (238') @ 245' PD @ 1 AM 4-20-18
 4-20-18 - 7:00 AM WOC, DP @ 9 AM
 4-21-18 - 7:00 AM drlg @ 2083'
 4-22-18 7:00 AM drlg @ 3117'
 4-23-18 7:00 AM drlg @ 3653' TOH for hole in pipe
 4-24-18 7:00 AM CFS @ 4108'
 4-25-18 7:00 AM 4200' RTD Logging

Gas Detector not working

Sh - gr-blk, with abundant anhydrite

Sh - lt-dk gr w/ abundant anhy, scat gr-wht chalky limestone

Onaga Sh.
 2495 (-790)

Sh - gr-blk, with abundant anhydrite

Sh - lt-dk gr, scat anhydrite, no sand in sample

Sh - lt-dk gr, and SS - Lt gr, fn grained, mod sort, silty and glauconitic, slt micaceous, no vis show

Wabaunsee
 2556 (-851)

LS - tan-gr-wht, fn xtln, dense to slt chalky, fos

Sh - gr-blk

LS - tan-gr, fn xtln, dense

Sh - gr-blk

LS - tan-gr, fn xtln, dense

2400

50

2500

CFS

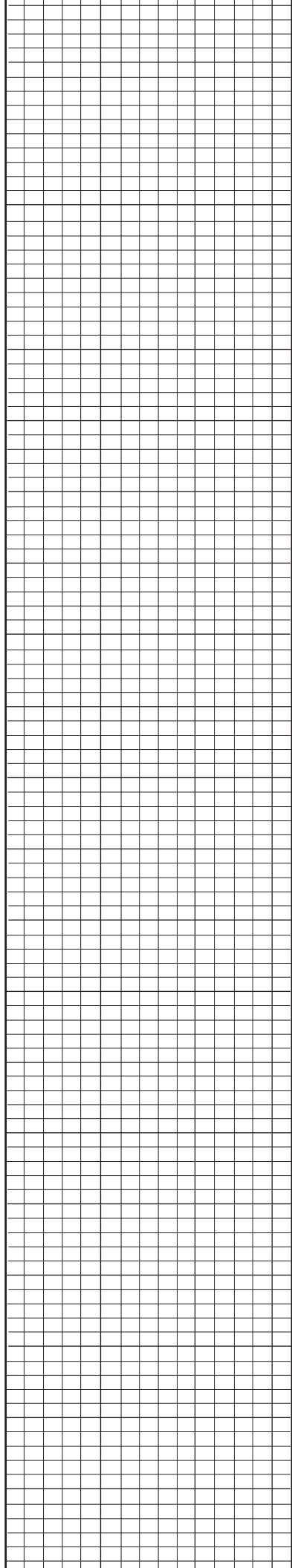
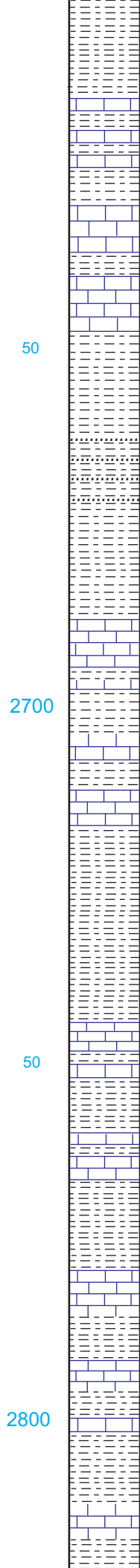
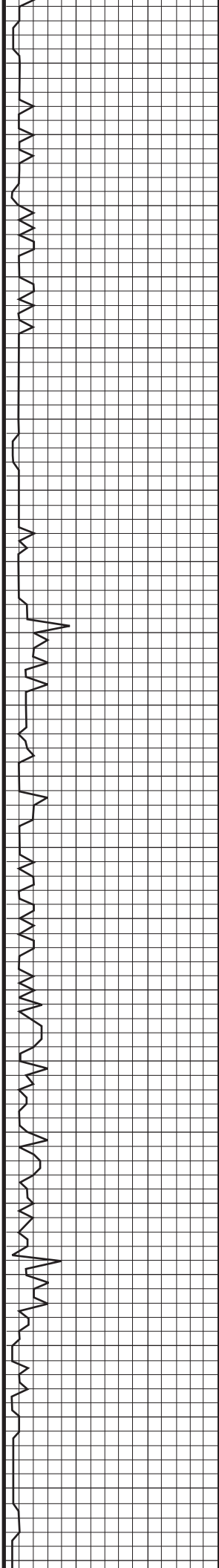
50

2600

5 10 15

10 50 100 500

H
 GY



Sh - lt-dk gr

LS - tan-brn, fn xtl, dense and
Sh - gr

Sh - lt gr

LS - tan-brn-gr, fn xtl, dense

LS - gr-tan, fn xtl, dense to chalky

50

Sh - lt gr

Sh - gr-blk, silty in part, w/ scat
gr fn grained, silty sand

Sh - lt-dk gr

LS - tan-gr, fn xtl, dense

2700

Sh - gr

LS - gr-tan, dense

Sh - lt-dk gr

LS - tan-gr, fn xtl, dense

50

Sh - gr and red, w' scat ss - gr, fn
grained, tightly cem to silty, no
vis por

Sh - lt-dk gr

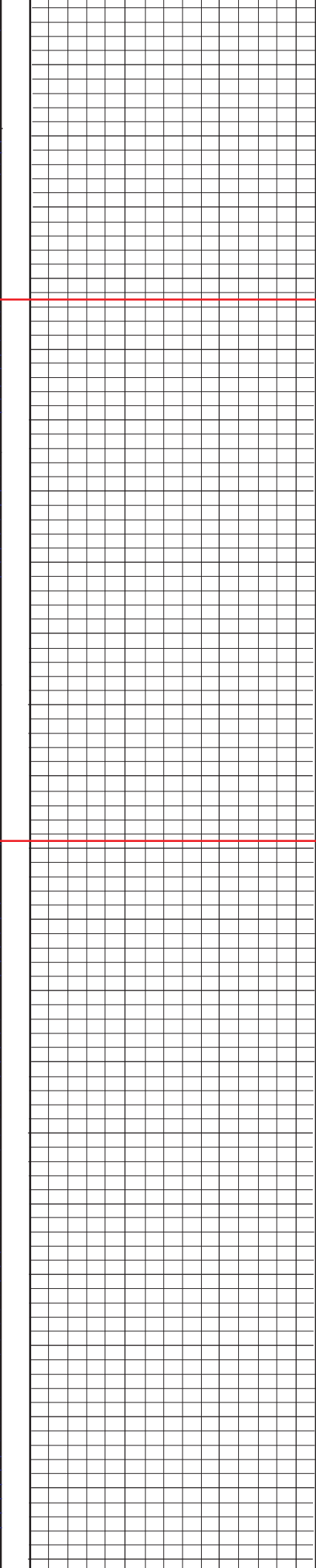
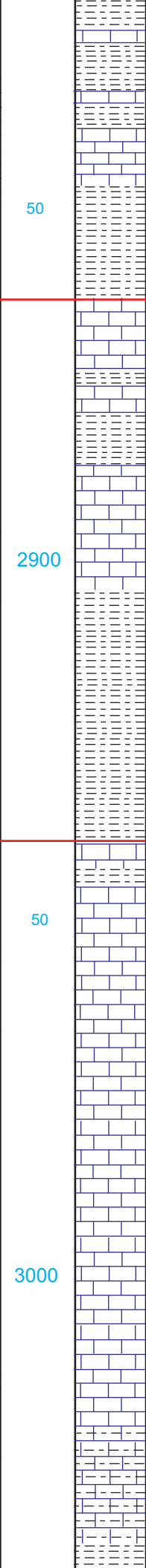
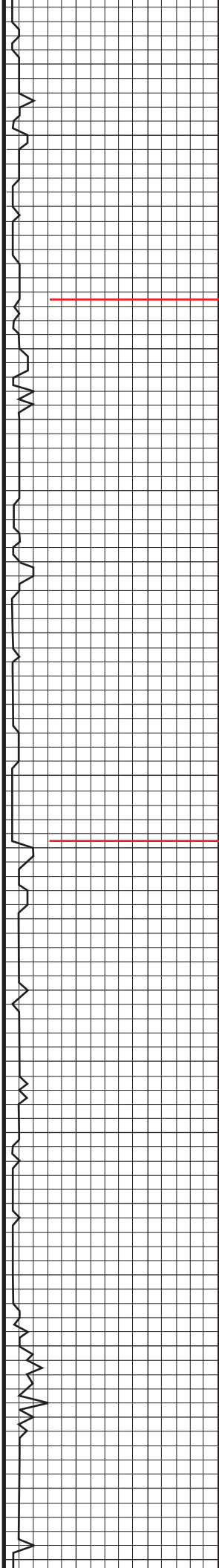
LS - lt gr, fn xtl, dense

Sh - gr

LS - tan-gr, fn xtl, dense

2800

Sh - gr



LS - tan-wht-lt gr, fn xtln, dense
 LS - tan-crm-wht, fn xtln, scat fair vug to fos cast por, slt chalky, no show
 LS - lt gr-wht, fn xtln, dense
 LS - tan-wht, fn xtln, dense to slt chalky

Burlingame LS
 2863 (-1158)

LS - gr-tan, fn xtln, fos, dense
 Sh - gr-blk
 LS - tan-gr, fn xtln, no vis por
 Sh - gr-blk
 Sh - gr-blk

Howard LS
 2939 (-1234)

LS - tan-lt gr, fn xtln, slt chalky to vslt pinpoint por, no show
 LS - tan-dk gr, dense
 LS - tan-gr, no vis por, abundant shale cavings
 LS - gr-tan, mostly shale cavings
 Sh - gr

50

2900

50

3000

Sh - gr

Topeka LS
3051 (-1346)

50

Vis 60
Wt. 8.7

LS - brn-tan-lt gr, fn xtlh, dense

3100

LS - tan-wht, fos in part, fair-gd
pinpoint por, no show

50

LS - lt gr-tan, fn xtlh, dense

3200

LS - tan-wht, fn xtlh, f-gd int xtlh
por

50

LS - tan-wht, fn xtlh, fos, gd vug
por, no show

Work on rig
Pull 10 stands
Displace Mud

3300

50

Vis 75
Wt. 8.6
LCM 2#

3400

Vis 48
Wt. 9.0

50

10 50 100 500

LS - tan-wht, fn xtln, chalky

LS - gr-tan-wht, fn xtln, dense,
scat poor por

LS - lt gr-tan, fn xtln, chalky to
dense, scat vug to fos cast por

LS - tan-lt gr, fn and med xtln,
scat gd vug por

LS - lt gr-tan, fn xtln, dense to slt
chalky, scat vug and fos cast por

LS - gr-brn, dense, scat chalk,
scat poor vug por

Sh - gr-blk carb

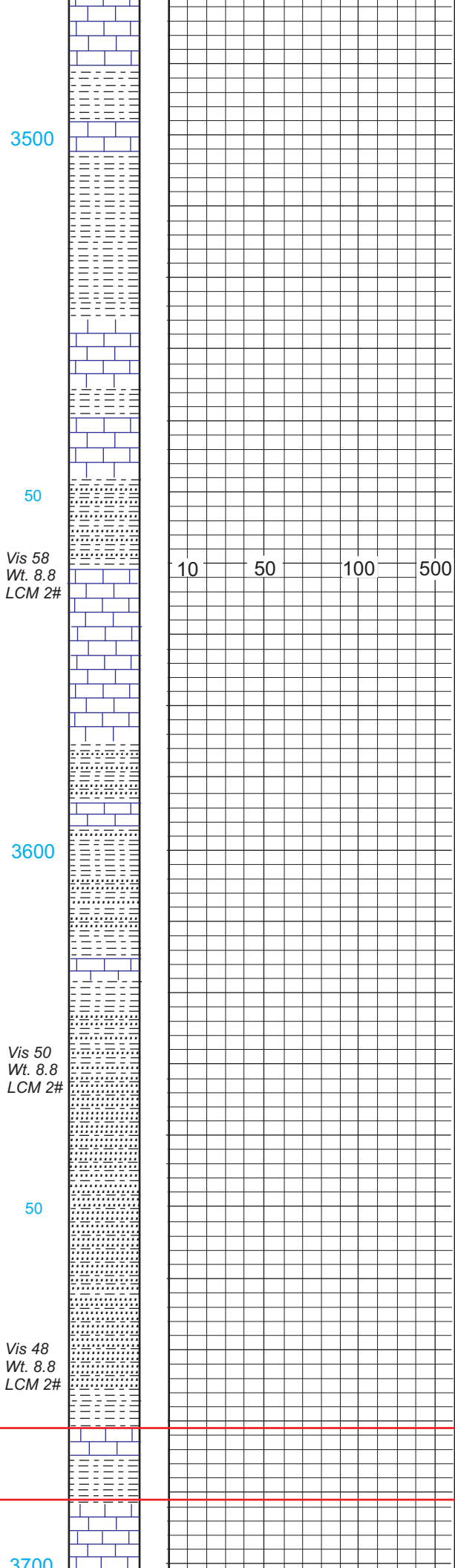
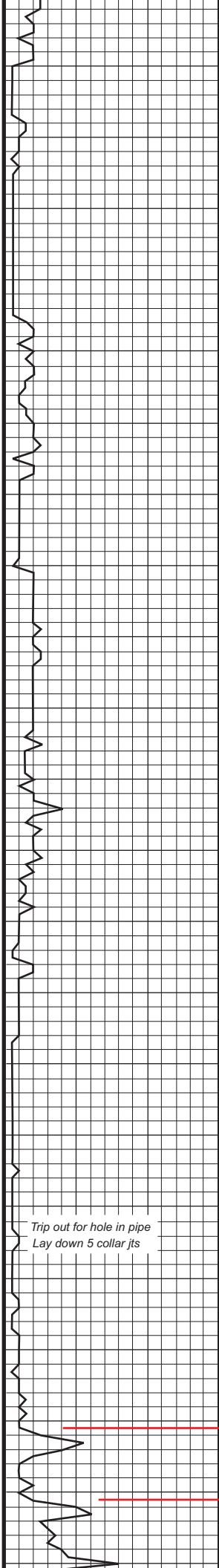
LS - tan-brn, fn xtln, dense

Sh - blk carb

LS - tan-brn, fn xtln, dense

Sh - lt gr-dk gr

Heebner Sh.
3460 (-1755)



LS - brn-gr-wht, fn xtl, dense

Sh - gr-blk

LS - lt gr-brn, fn xtl, dense

Sh - lt-dk gr-blk

LS - lt gr-tan, fn xtl, dense

Sh - gr-blk

LS - tan-gr, fn xtl, slt fos, dense

Sh - lt gr, silty w/ lt gr silty sand, micaceous

LS - gr-tan, fn xtl and fos, slt pyritic, dense

Sh - lt-dk gr, silty in part

LS - brn-gr, dense

Sh - lt-dk gr, w/ SS - gr-wht, fn grained, micaceous, silty

Sh - lt-dk gr, silty in part

SS - lt gr, fn grained, well sort, slt mica, semi-friable, no show

SS - lt gr-wht, fn-vfn grained, slt mica, semi-friable to tightly cem, no show

Sh - lt-dk gr

LS - brn-gr, fn xtl, dense

Sh - gr-blk

LS - gr-tan-crm, fn xtl, scat fair vug por, no show

Brown Lime
3681 (-1976)

Lansing
3691 (-1986)

3500

50

Vis 58
Wt. 8.8
LCM 2#

3600

Vis 50
Wt. 8.8
LCM 2#

50

Vis 48
Wt. 8.8
LCM 2#

3700

Trip out for hole in pipe
Lay down 5 collar jts

Vis 48
Wt. 8.9
LCM 2#

50

3800

Vis 48
Wt. 9.0
LCM 2#

50

Vis 47
Wt. 9.0
LCM 2#

3900

10 50 100 500

LS - lt gr-tan, fn xtln to slt chalky, scat p-fair vug por

LS - gr-tan-wht, fn xtln, dense to slt chalky

LS - lt-dk gr to wht and brown, fn xtln, dense to slt chalky

LS - lt-dk gr, brown, fn xtln, dense to chalky

LS - dk-lt gr, and wht, dense to chalky

LS - gr-tan, fn xtln, dense, scat chalk

LS - gr-tan, fn xtln, dense

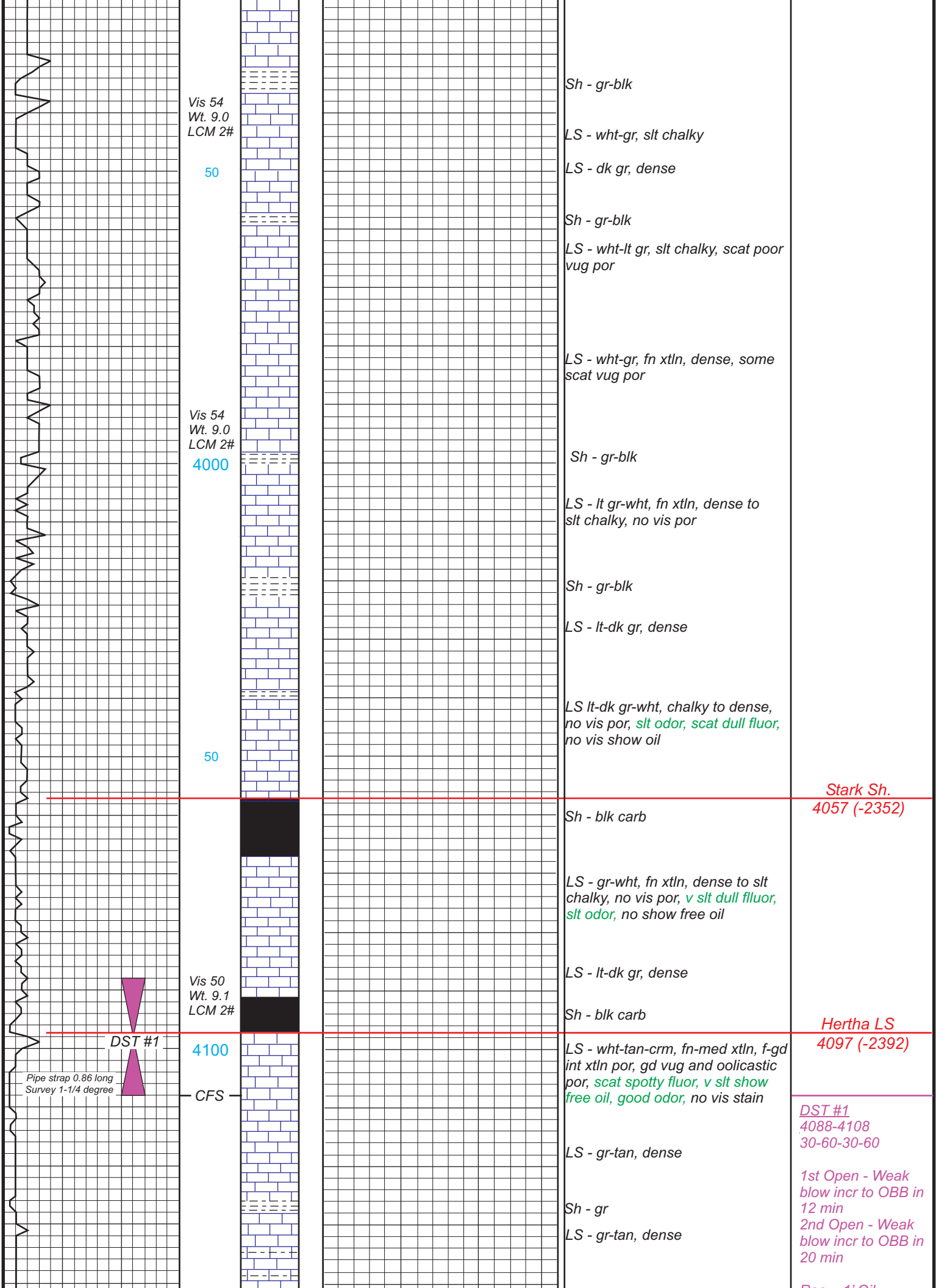
LS - dk-lt gr-tan, fn xtln, dense

LS - dk gr-brn, fn xtln, dense

LS - dk-lt gr and tan, fn xtln dense to slt chalky

Sh - gr-blk

LS - tan-gr, fn xtln, dense



Vis 54
Wt. 9.0
LCM 2#

50

Sh - gr-blk

LS - wht-gr, slt chalky

LS - dk gr, dense

Sh - gr-blk

LS - wht-lt gr, slt chalky, scat poor
vug por

LS - wht-gr, fn xtl, dense, some
scat vug por

Vis 54
Wt. 9.0
LCM 2#

4000

Sh - gr-blk

LS - lt gr-wht, fn xtl, dense to
slt chalky, no vis por

Sh - gr-blk

LS - lt-dk gr, dense

LS lt-dk gr-wht, chalky to dense,
no vis por, *slt odor, scat dull fluor,*
no vis show oil

50

Stark Sh.
4057 (-2352)

Sh - blk carb

LS - gr-wht, fn xtl, dense to slt
chalky, no vis por, *v slt dull fluor,*
slt odor, no show free oil

LS - lt-dk gr, dense

Vis 50
Wt. 9.1
LCM 2#

4100

Sh - blk carb

Hertha LS
4097 (-2392)

LS - wht-tan-crm, fn-med xtl, f-gd
int xtl por, gd vug and oolitic
por, *scat spotty fluor, v slt show*
free oil, good odor, no vis stain

LS - gr-tan, dense

DST #1
4088-4108
30-60-30-60

Sh - gr

LS - gr-tan, dense

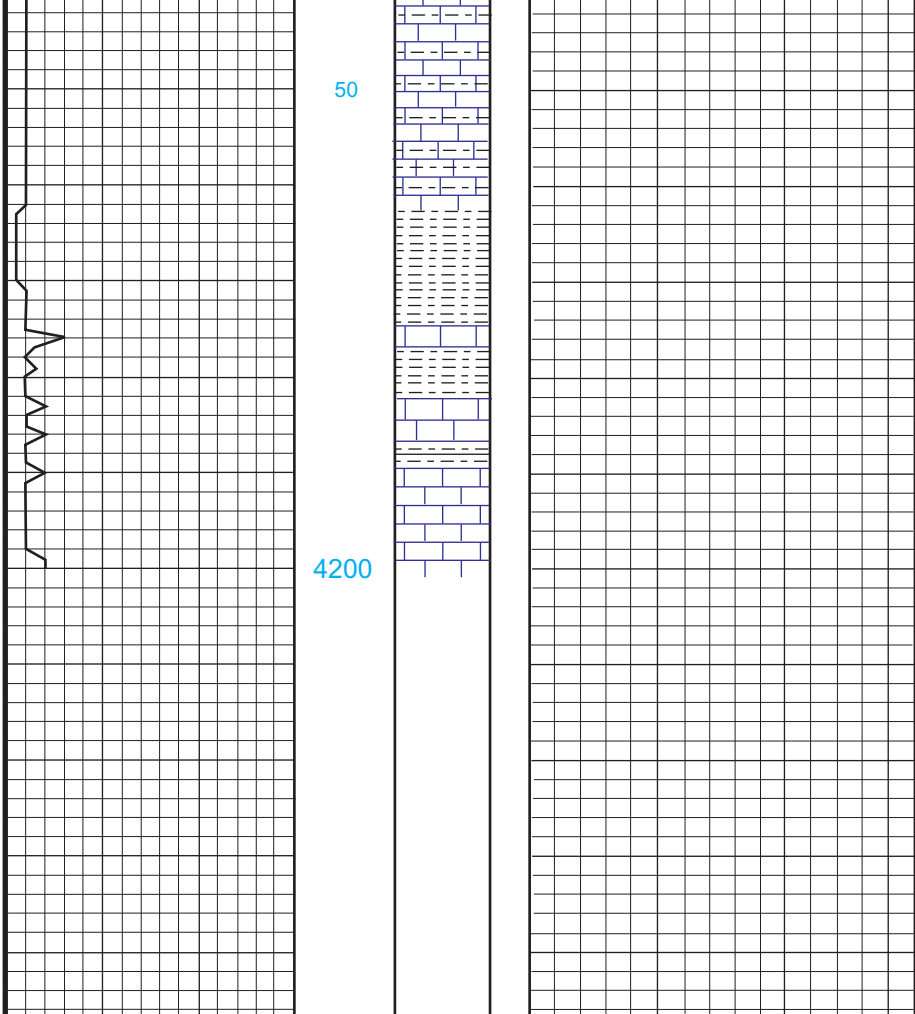
*1st Open - Weak
blow incr to OBB in
12 min
2nd Open - Weak
blow incr to OBB in
20 min*

Pipe strap 0.86 long
Survey 1-1/4 degree

DST #1

CFS

Page 1 of 1



LS - lt-dk gr-tan, dense, with sh gr-blk

Sh - gr-blk

LS - gr-tan, fn xtln, dense

Sh - blk-gr

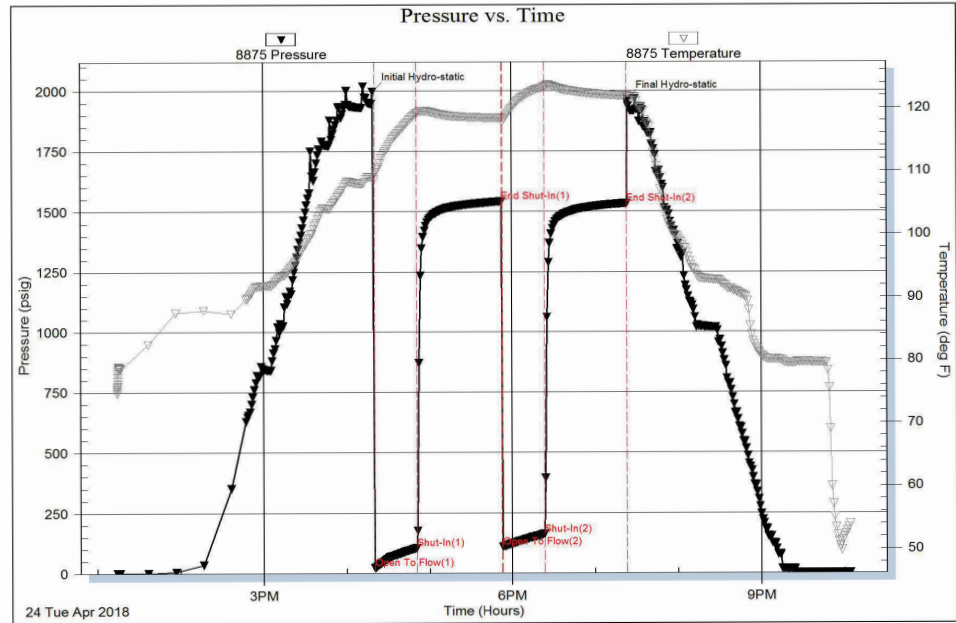
Sh - blk-gr

LS - gr-tan-wht, fn xtln, dense

Rec. - 1' Oil
63' SOCMW
252' Wtr

IFP: 23-106#
FFP: 110-163#
SIP: 1542-1534#
HP: 1998-1964#
BHT: 122 deg

Serial #: 8875 Inside R&B Oil & Gas Goetz A-1 DST Test Number: 1

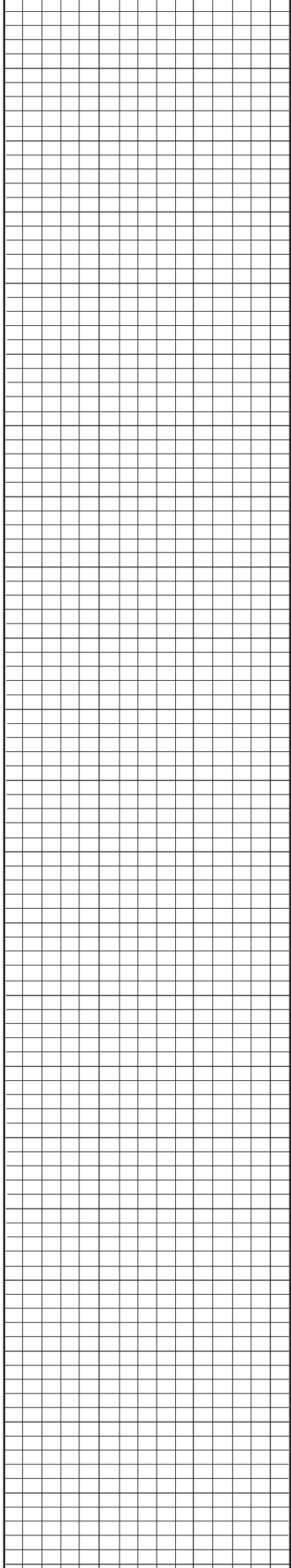
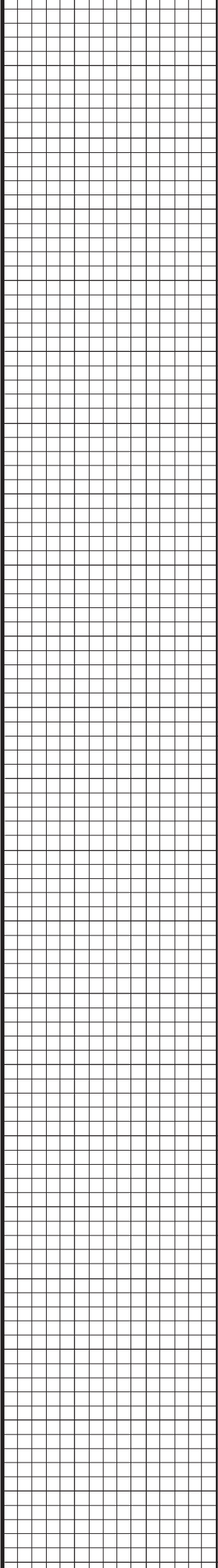


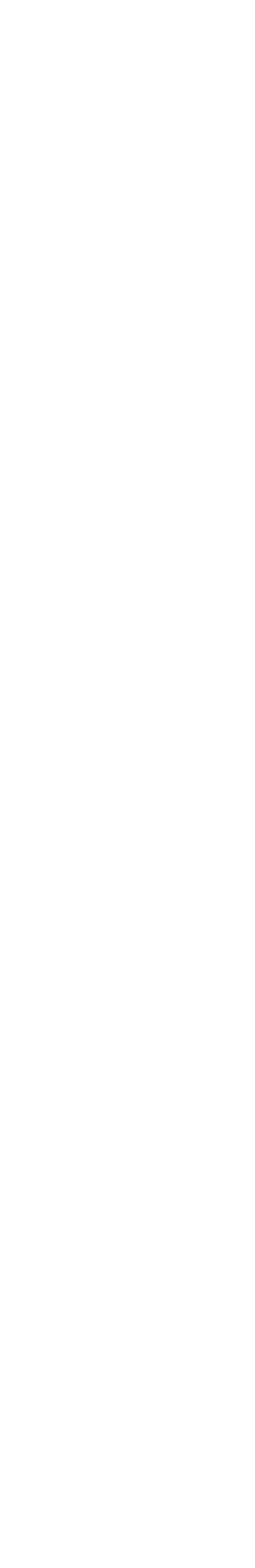
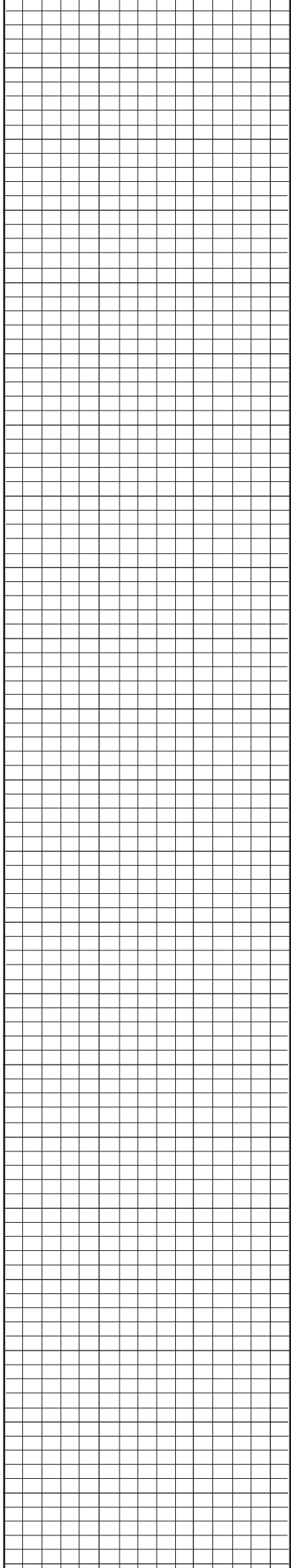
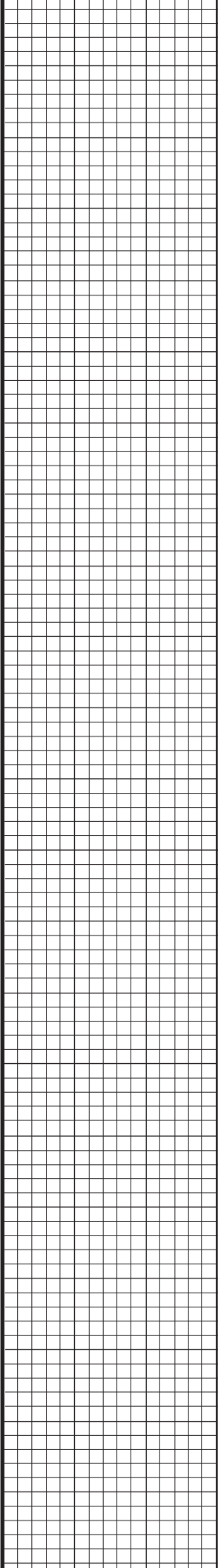
DST #1
4088-4108
30-60-30-60

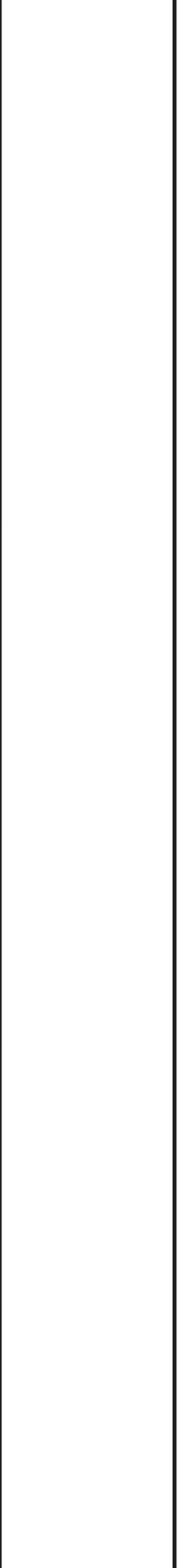
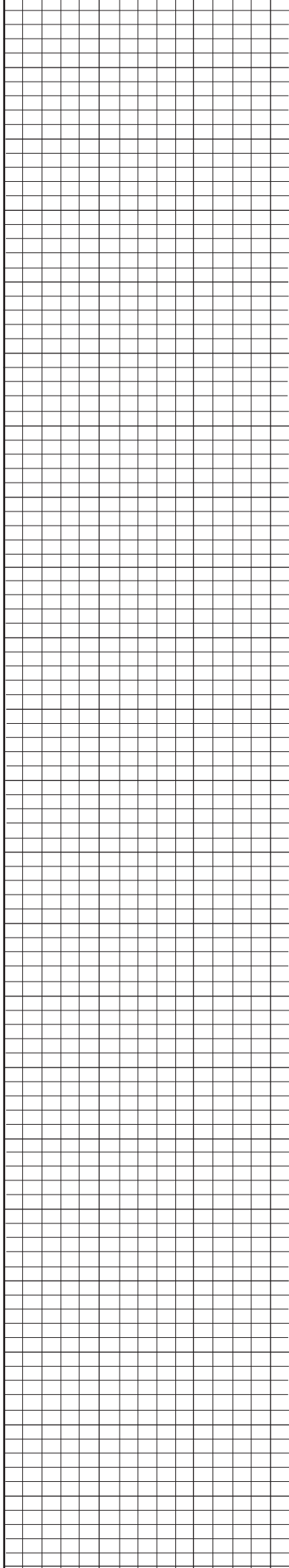
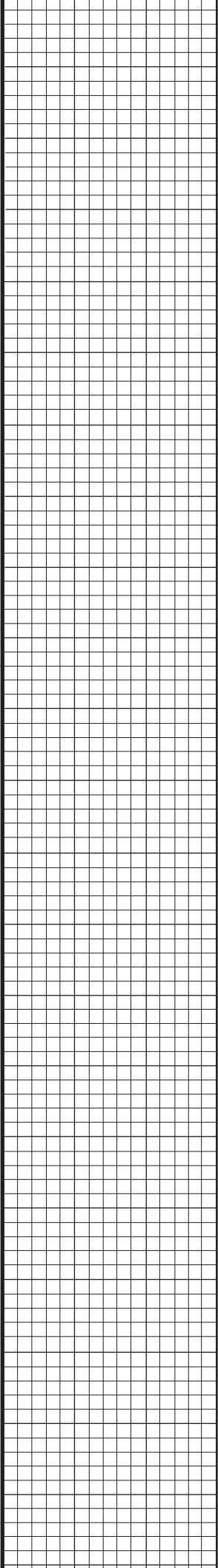
1st Open - Weak blow incr to OBB in 12 min
2nd Open - Weak blow incr to OBB in 20 min

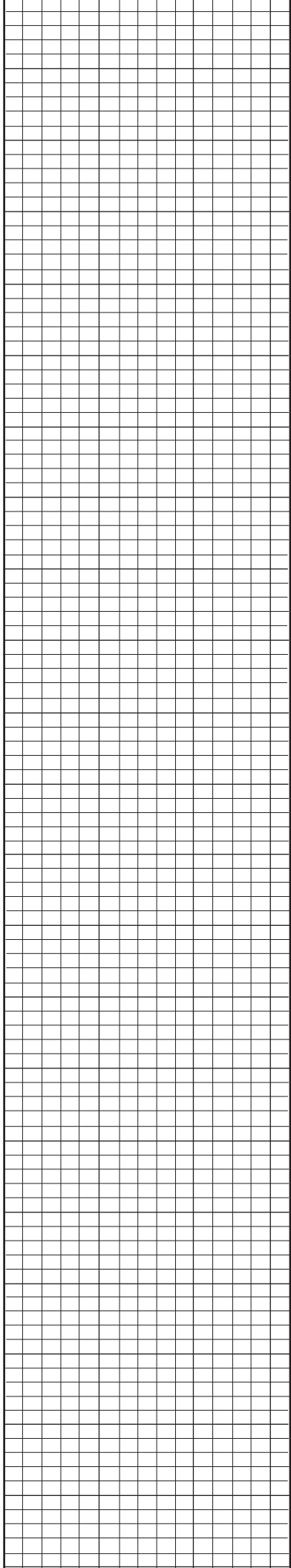
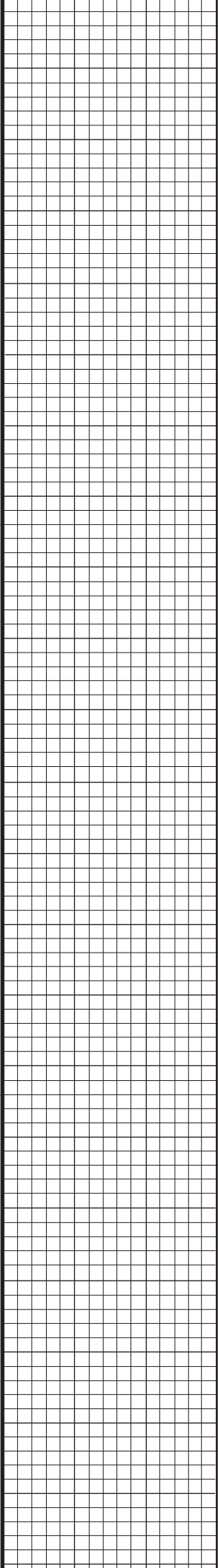
Rec. - 1' Oil
63' SOCMW
252' Wtr

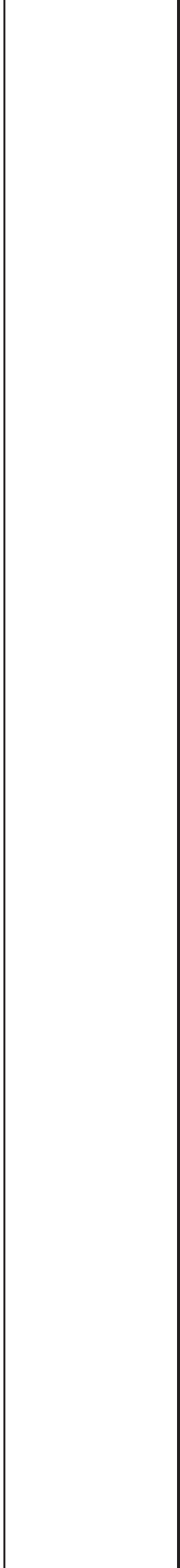
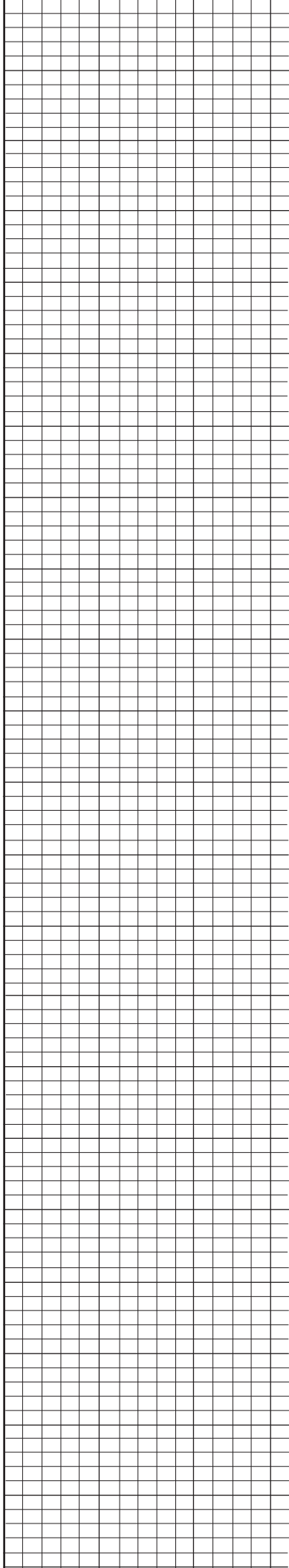
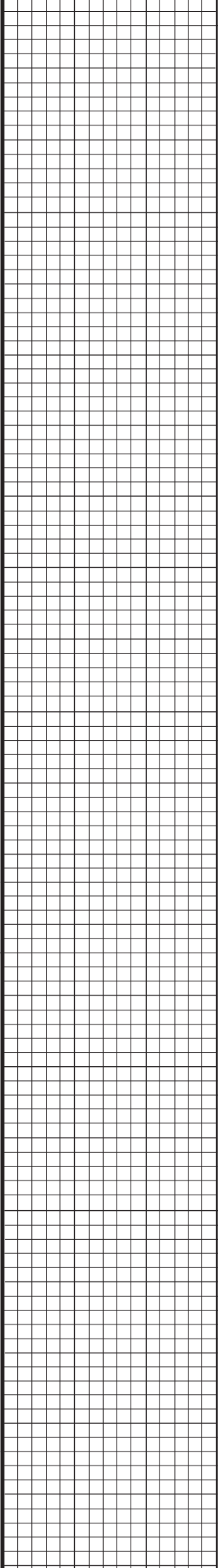
IFP: 23-106#
FFP: 110-163#
SIP: 1542-1534#
HP: 1998-1964#
BHT: 122 deg

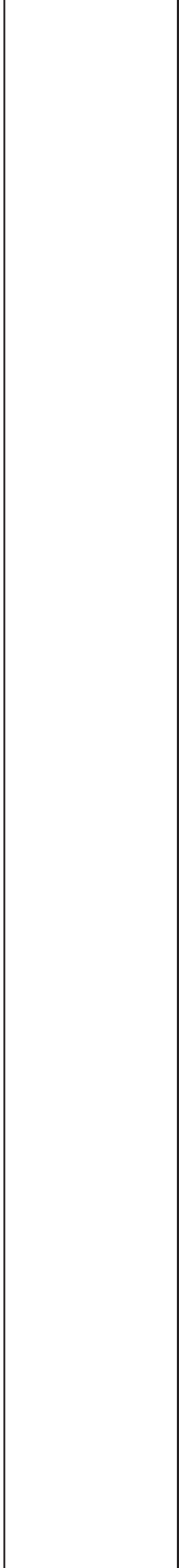
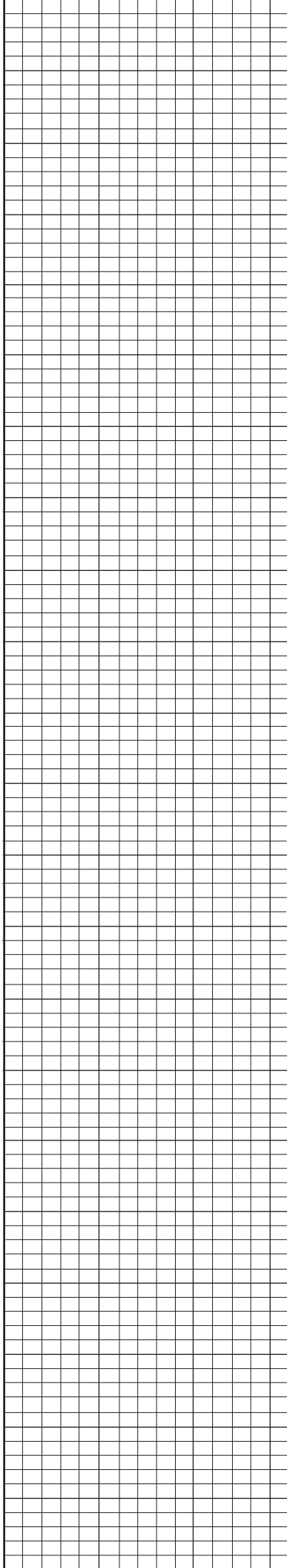
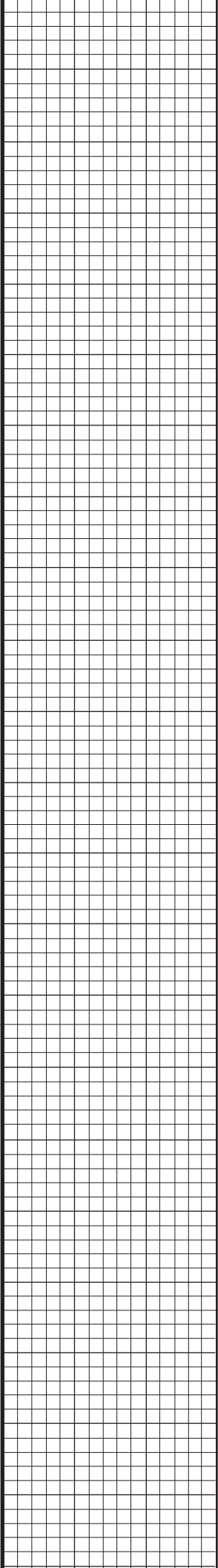


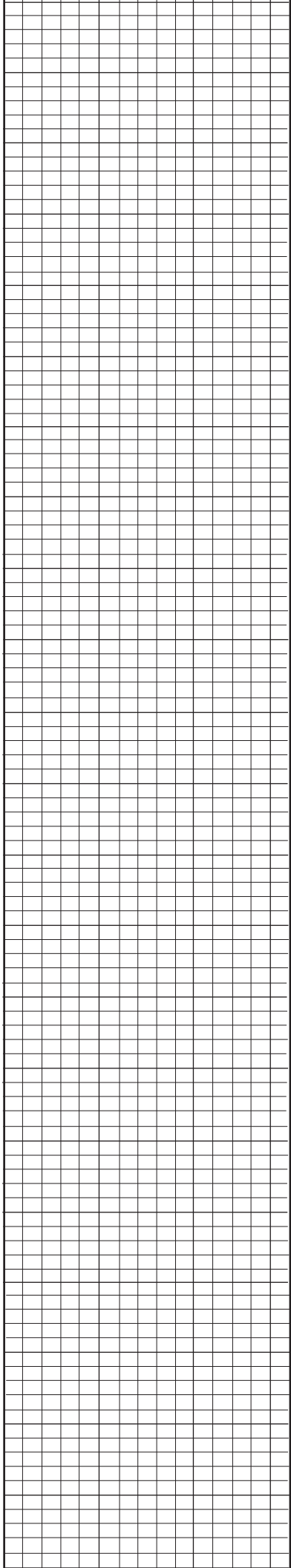
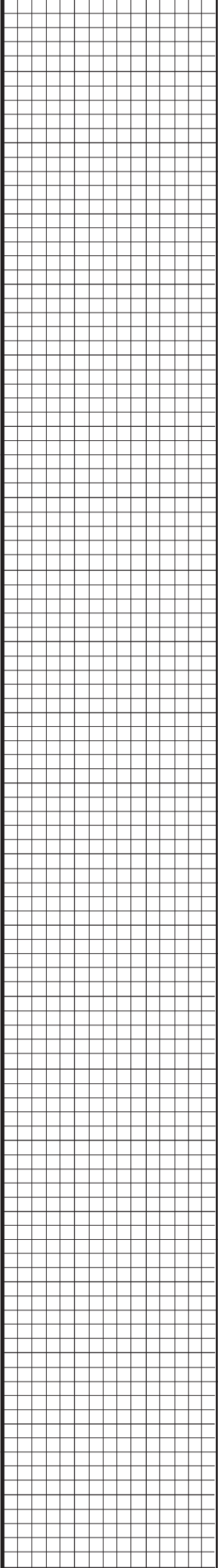


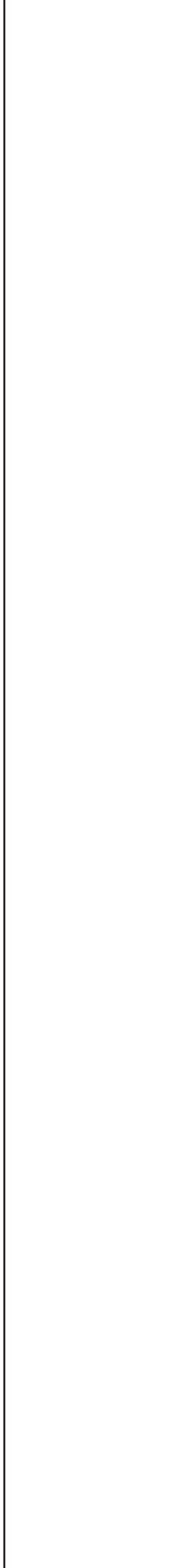
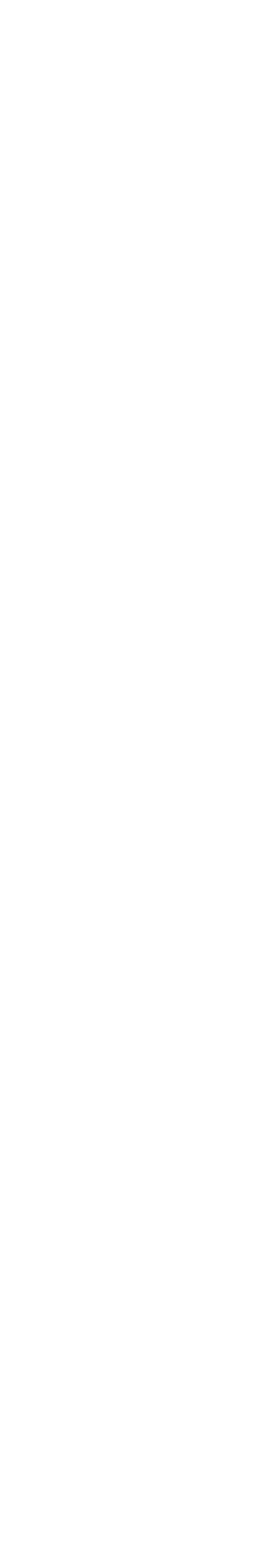
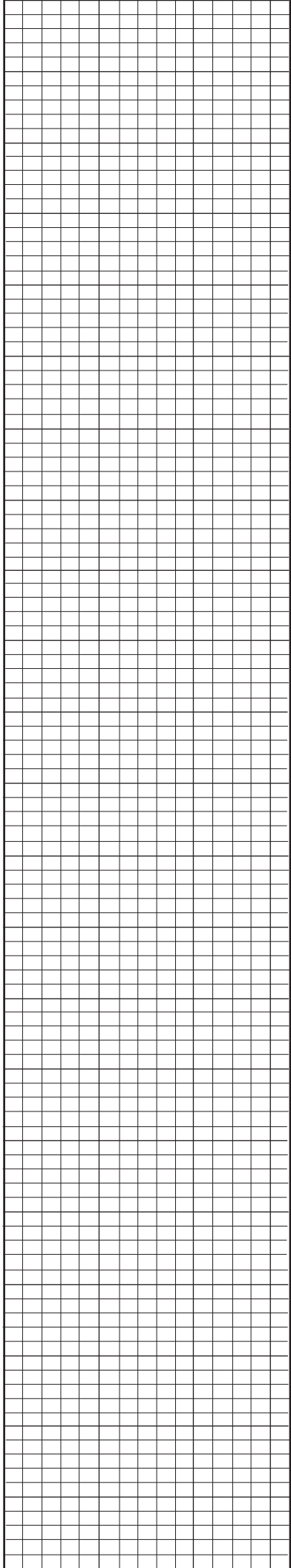
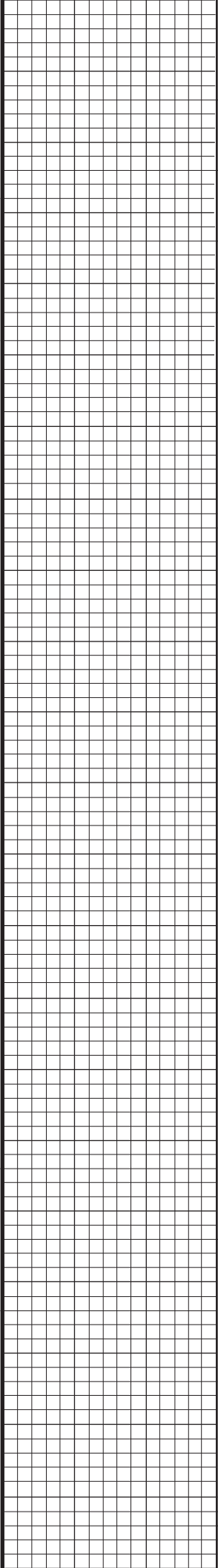


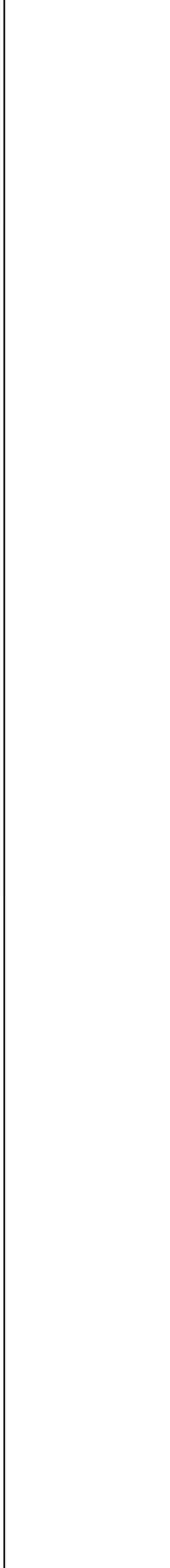
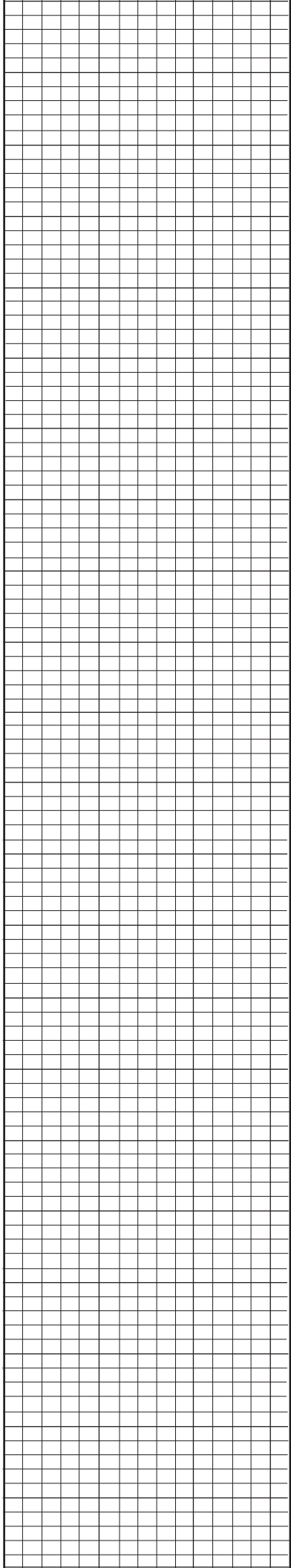
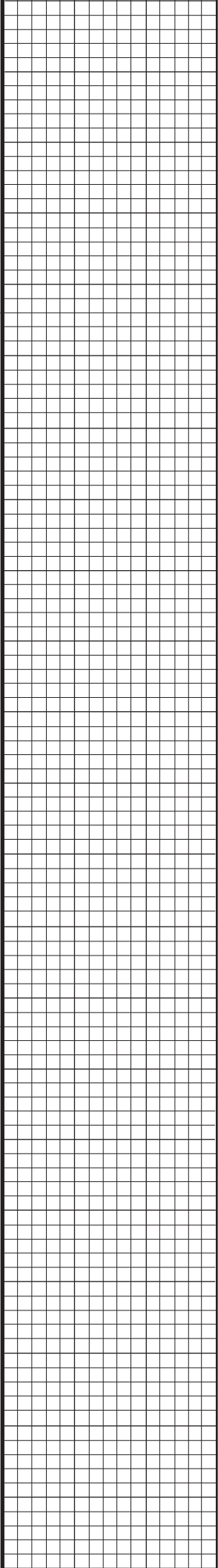


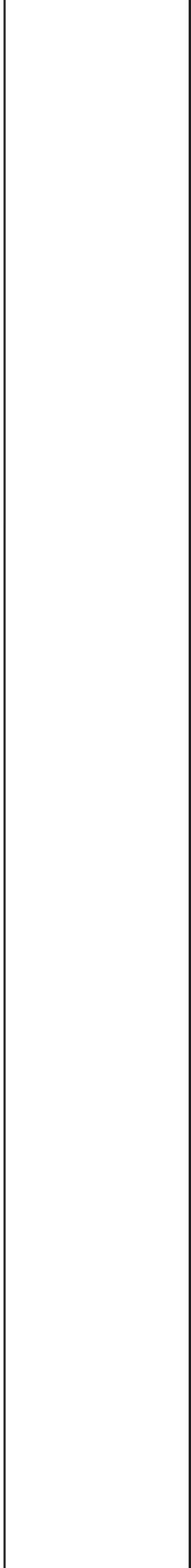
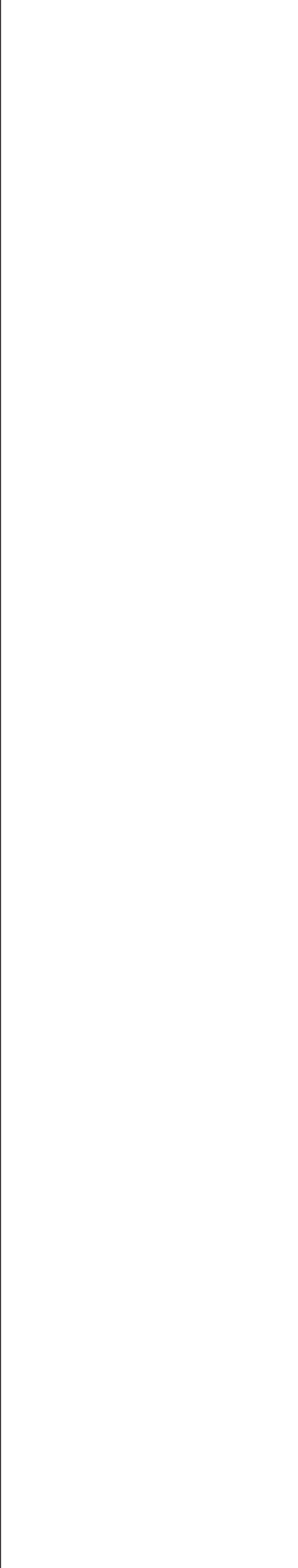
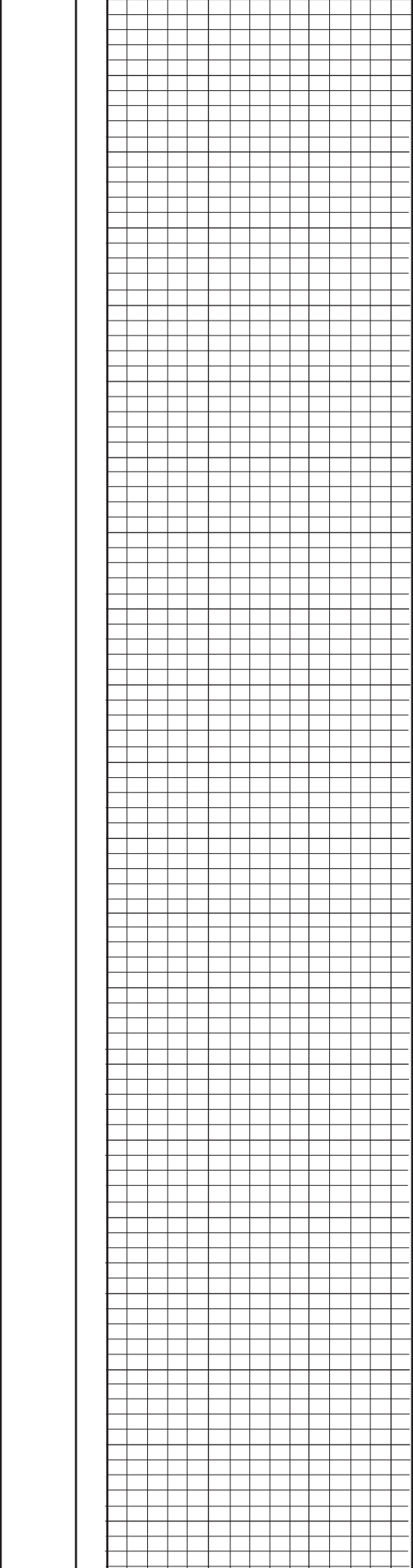
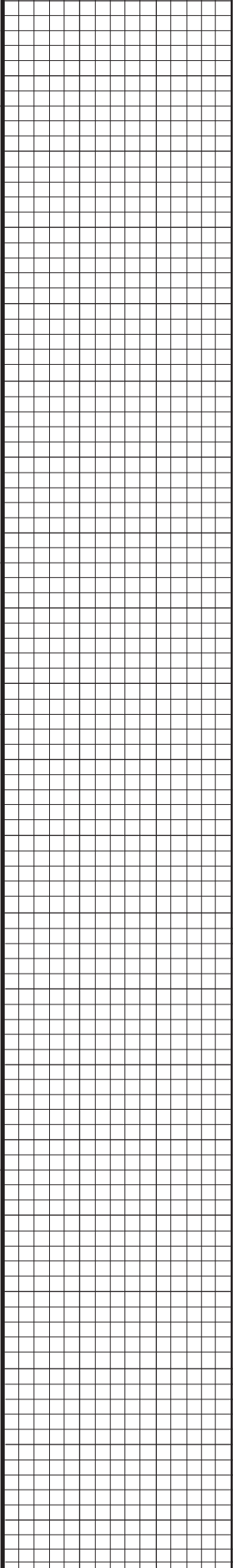














DUAL COMP POROSITY LOG

Pioneer Energy Services

Company R & B OIL & GAS, INC.
Well GOETZ A #1
Field SIVEY-GRABS
County KINGMAN **State** KANSAS

Company R & B OIL & GAS, INC.
Well GOETZ A #1
Field SIVEY-GRABS
County KINGMAN
State KANSAS

Location: API #: 15-095-22321-00-00
 1090' FNL & 660' FEL
 SEC 18 TWP 30S RGE 9W
 Permanent Datum: GROUND LEVEL Elevation 1700'
 Log Measured From: KELLY BUSHING
 Drilling Measured From: KELLY BUSHING
 Other Services: DIL
 Elevation: K.B. 1705', D.F. N/A, G.L. 1700'

Date	4/25/2018
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	4200'
Depth Logger	4201'
Bottom Logged Interval	4200'
Top Logged Interval	2400'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	5000
Density	9.1
Level	FULL
Max. Rec. Temp. F	118 DEG/F
Operating Rig Time	2 HOURS
Equipment -- Location	108 HAYS
Recorded By	IAN MABB
Witnessed By	TIM PIERCE

Run No.	Bit	Borehole Record			Casing Record		
		From	To	Size	Wgt.	From	To
ONE	12.25"	0	245'	8.625"	23#	0	245'
TWO	7.875"	245'		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.
 ZENDA, KS. 3 MILES WEST , 1/4 SOUTH, WEST INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: IAN MABB
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By


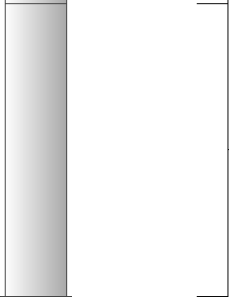
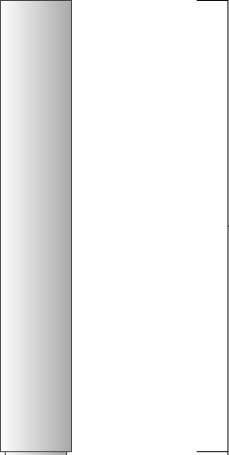

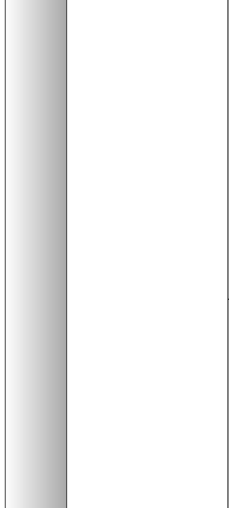
Primary Witness: TIM PIERCE
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\&b_goetz_a_1.db
Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	100	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	4	4	-160	56	Off	4201

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	29.90 29.15		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	20.85 20.83 20.35		CDL-M&W (168-986)	8.50	4.00	250.00
RLL3 RLL3F	15.80 15.79					
CILD	8.00		DIL-M&W (PSI 978)	18.50	3.50	220.00

CILM 4.70

SP 0.20

Dataset: r&b_goetz_a_1.db: field/well/stack/pass3.1
 Total length: 35.50 ft
 Total weight: 620.00 lb
 O.D.: 4.00 in

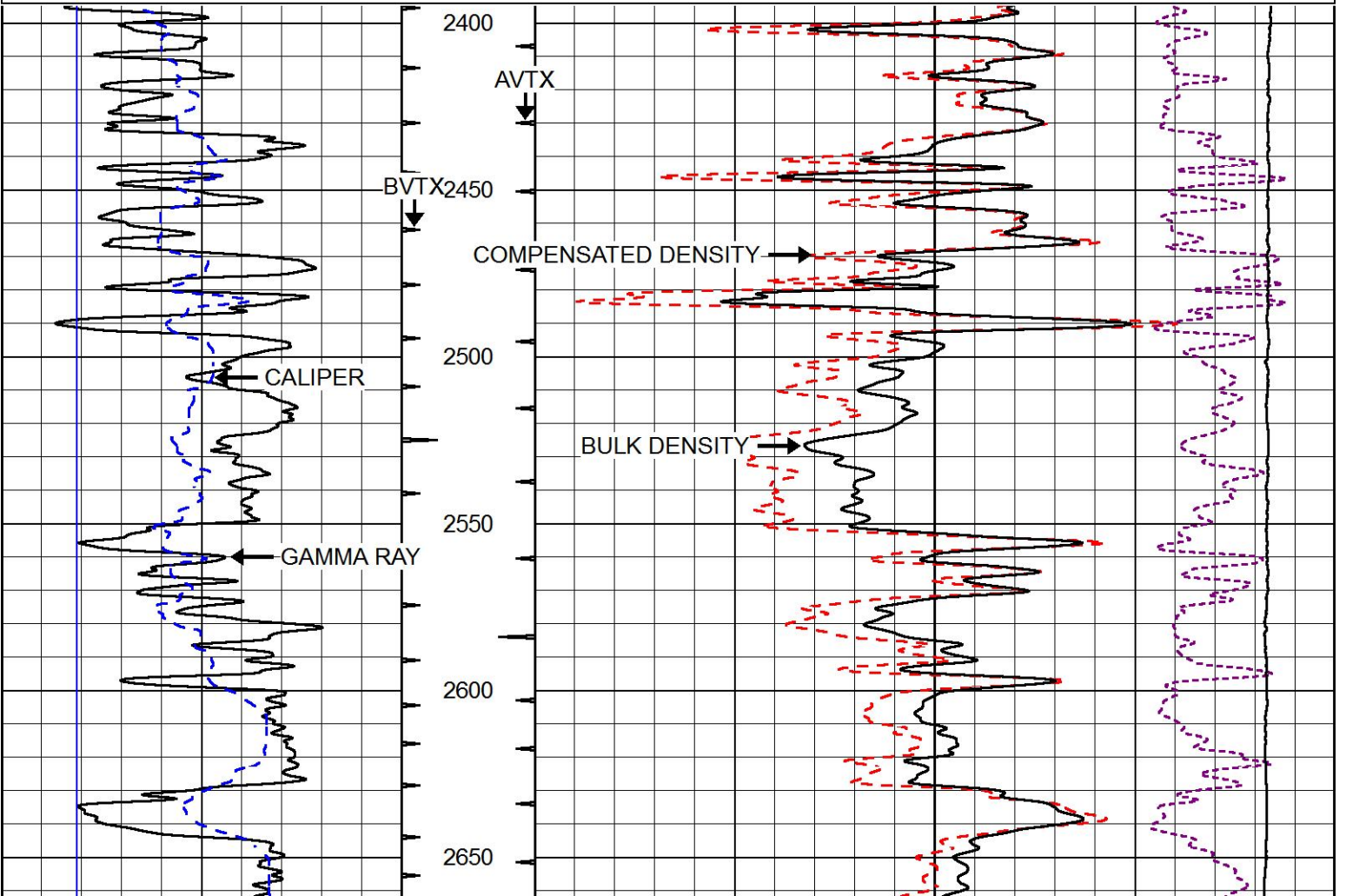


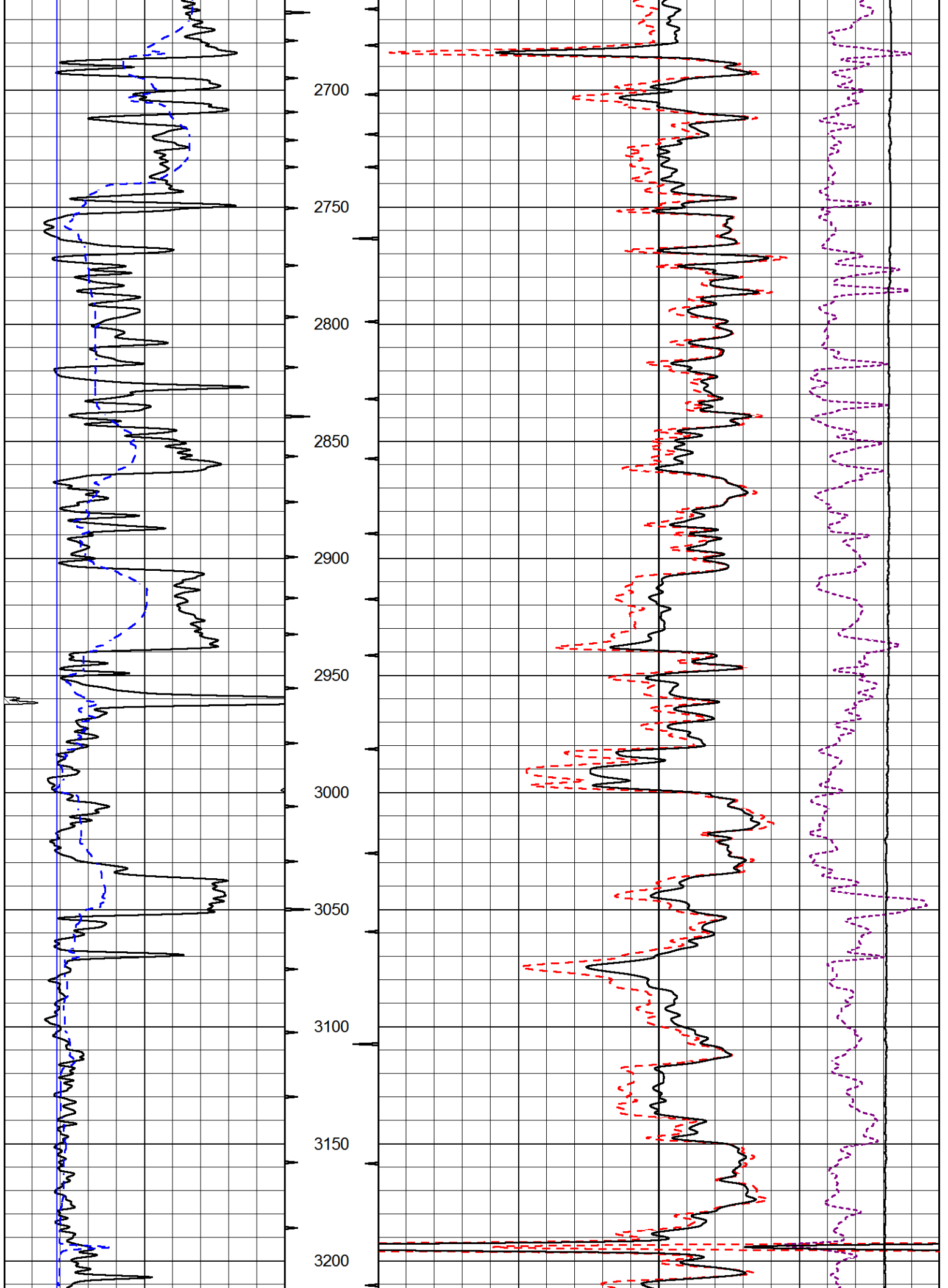
MAIN SECTION

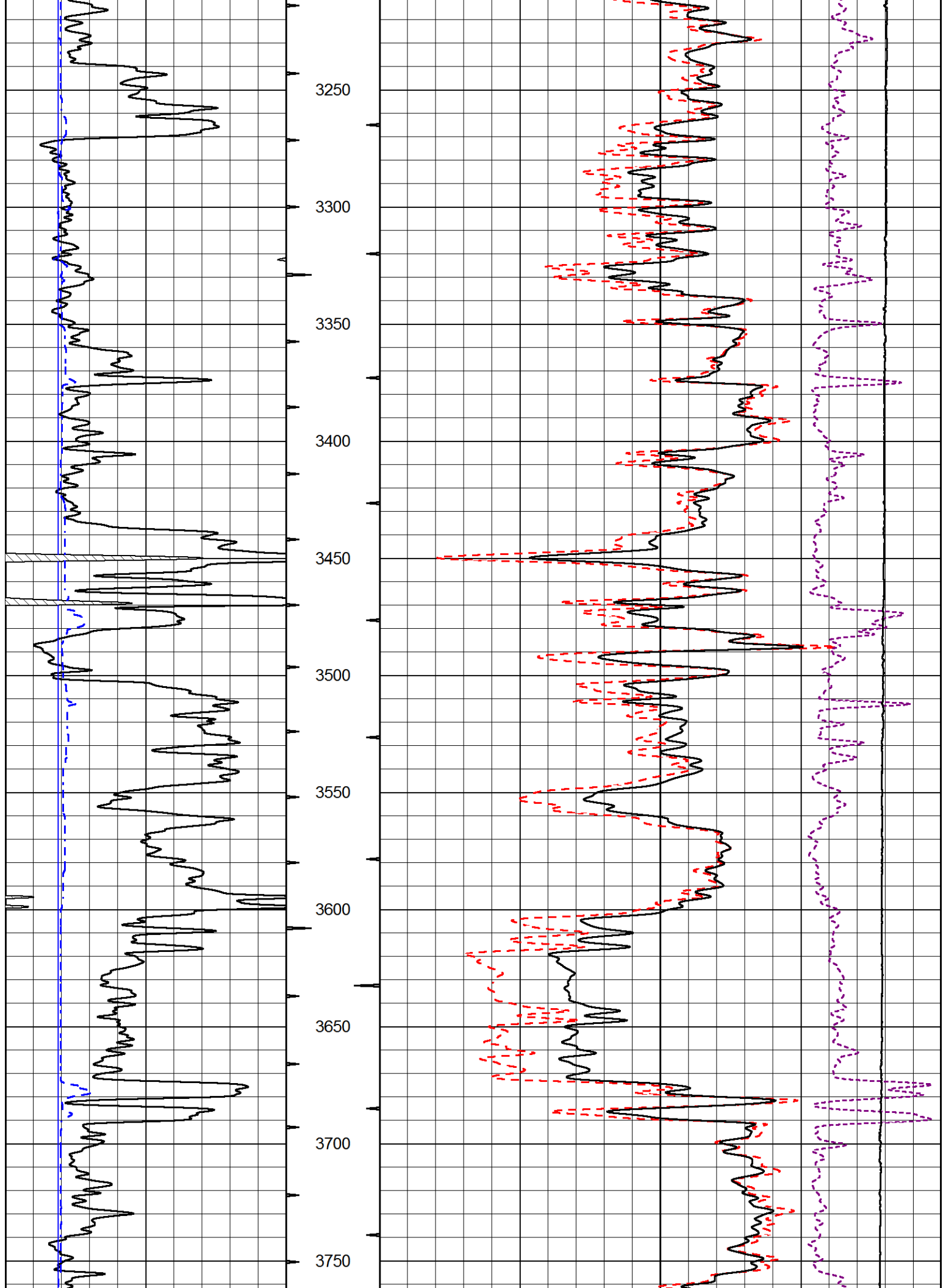
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 Dataset Pathname stack/pass3.1
 Presentation Format cdl
 Dataset Creation Wed Apr 25 09:17:17 2018
 Charted by Depth in Feet scaled 1:600

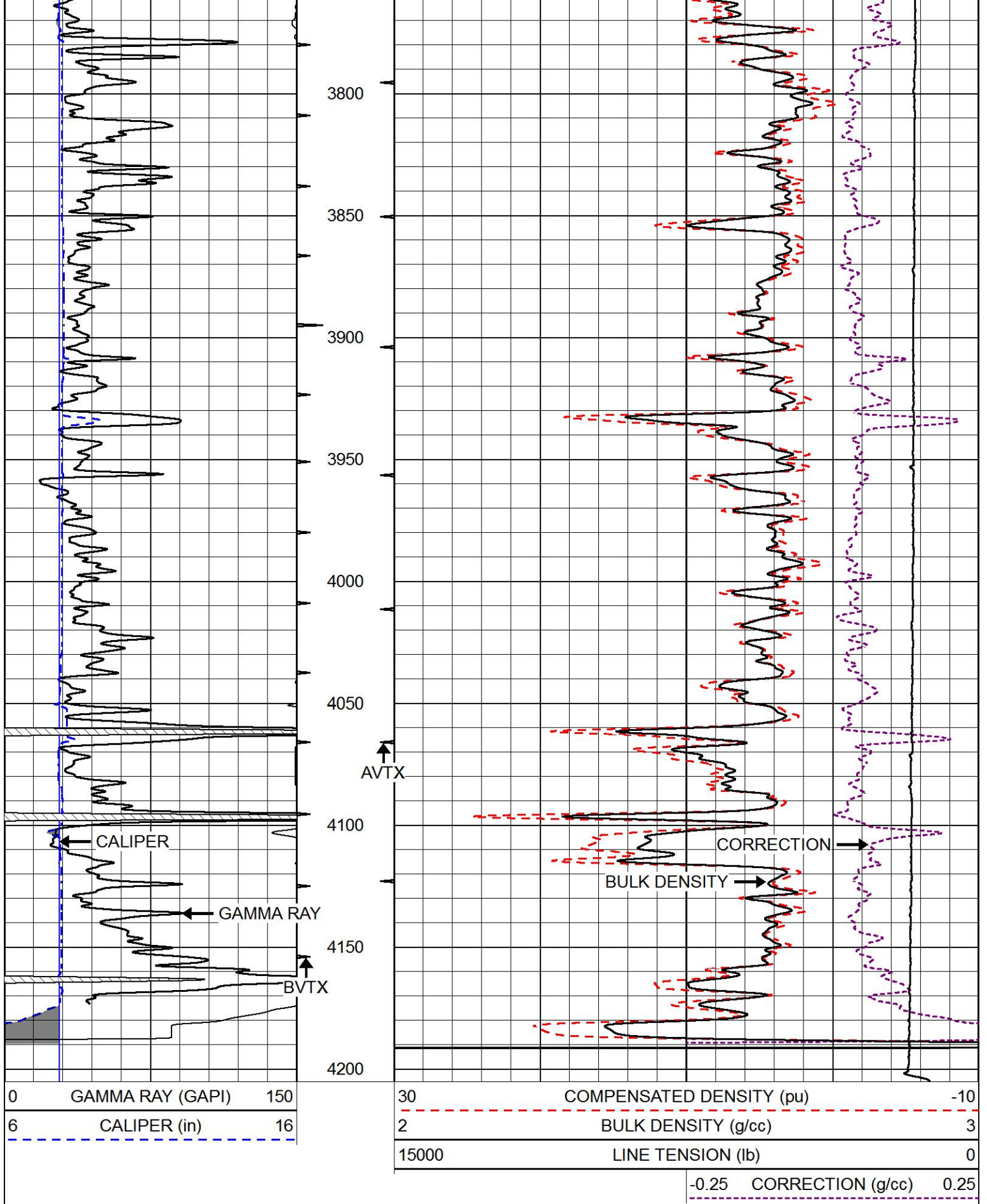
0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16

30	COMPENSATED DENSITY (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25









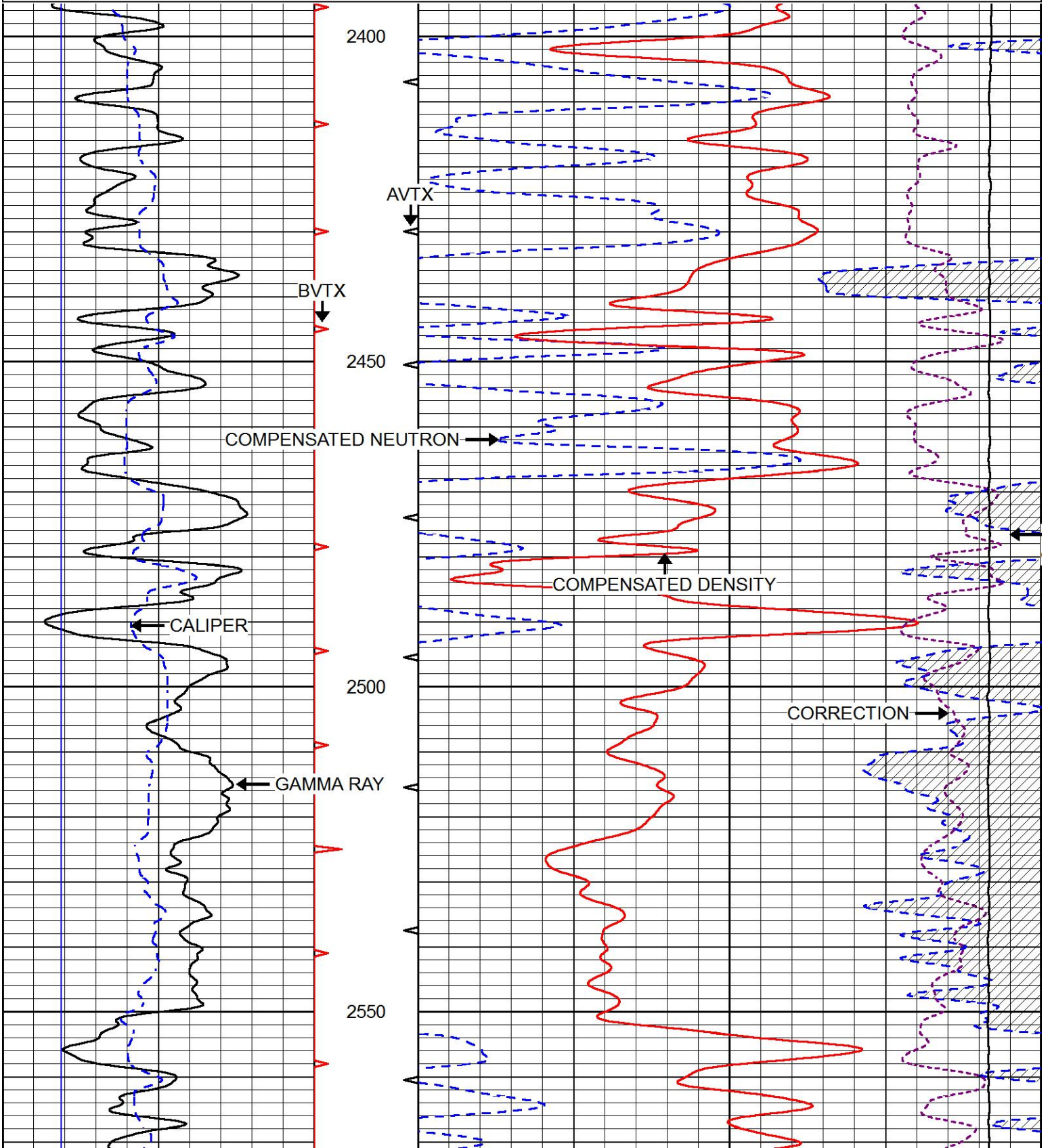
MAIN SECTION

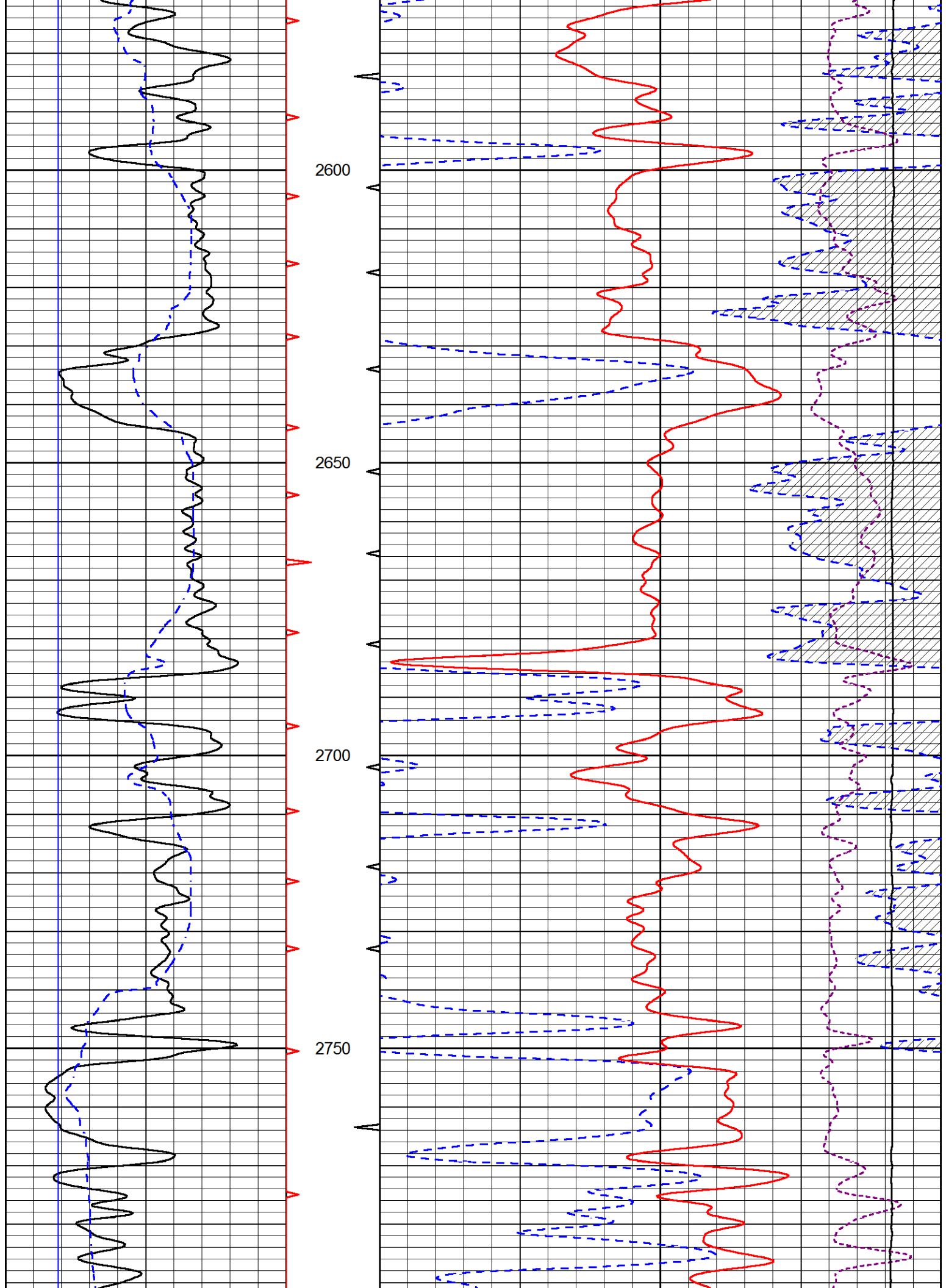
Database File r&b_goetz_a_1.db
 Dataset Pathname stack/pass3.1
 Presentation Format cndlspec
 Dataset Creation Wed Apr 25 09:17:17 2018
 Charted by Depth in Feet scaled 1:240

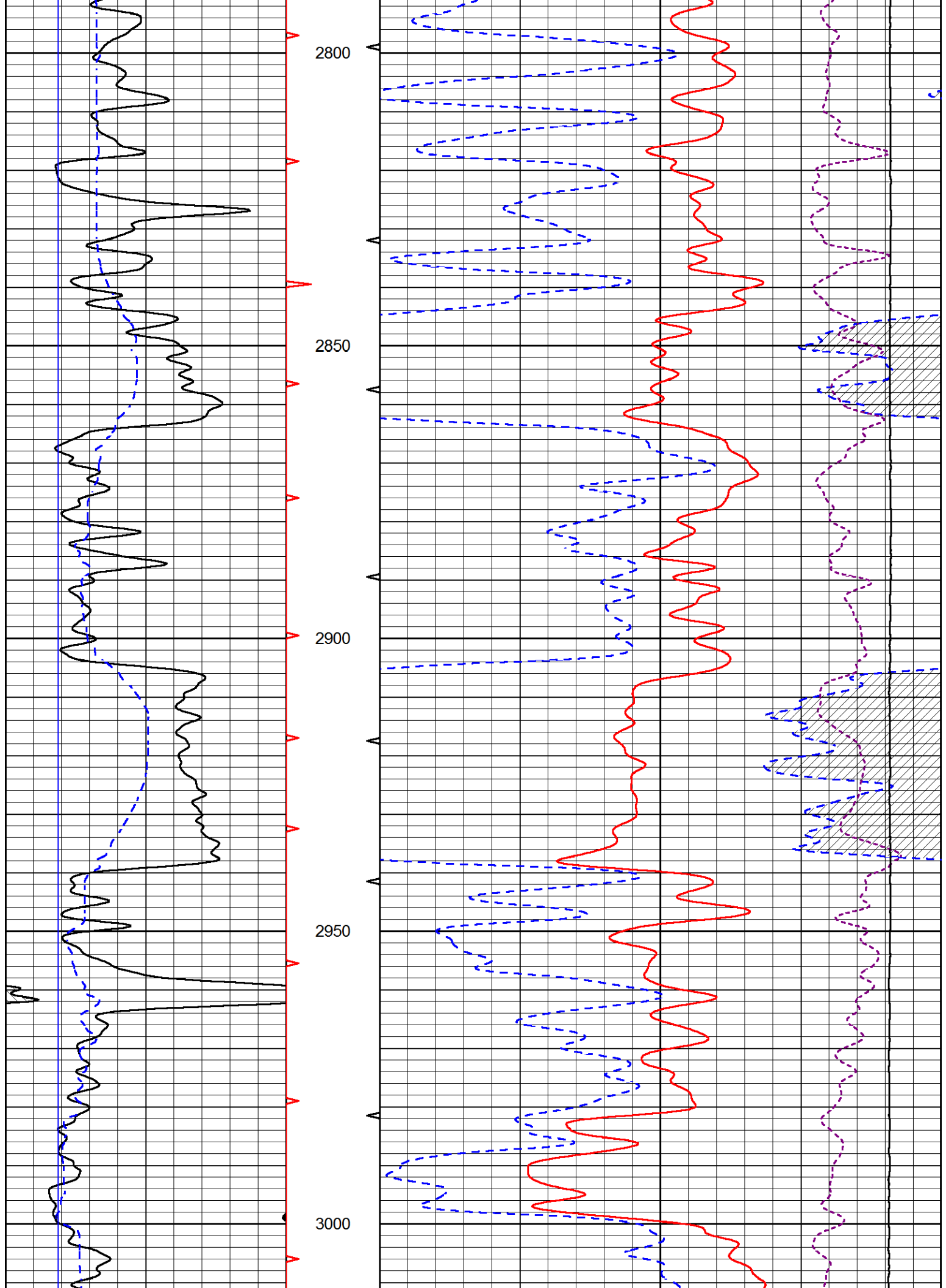
0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

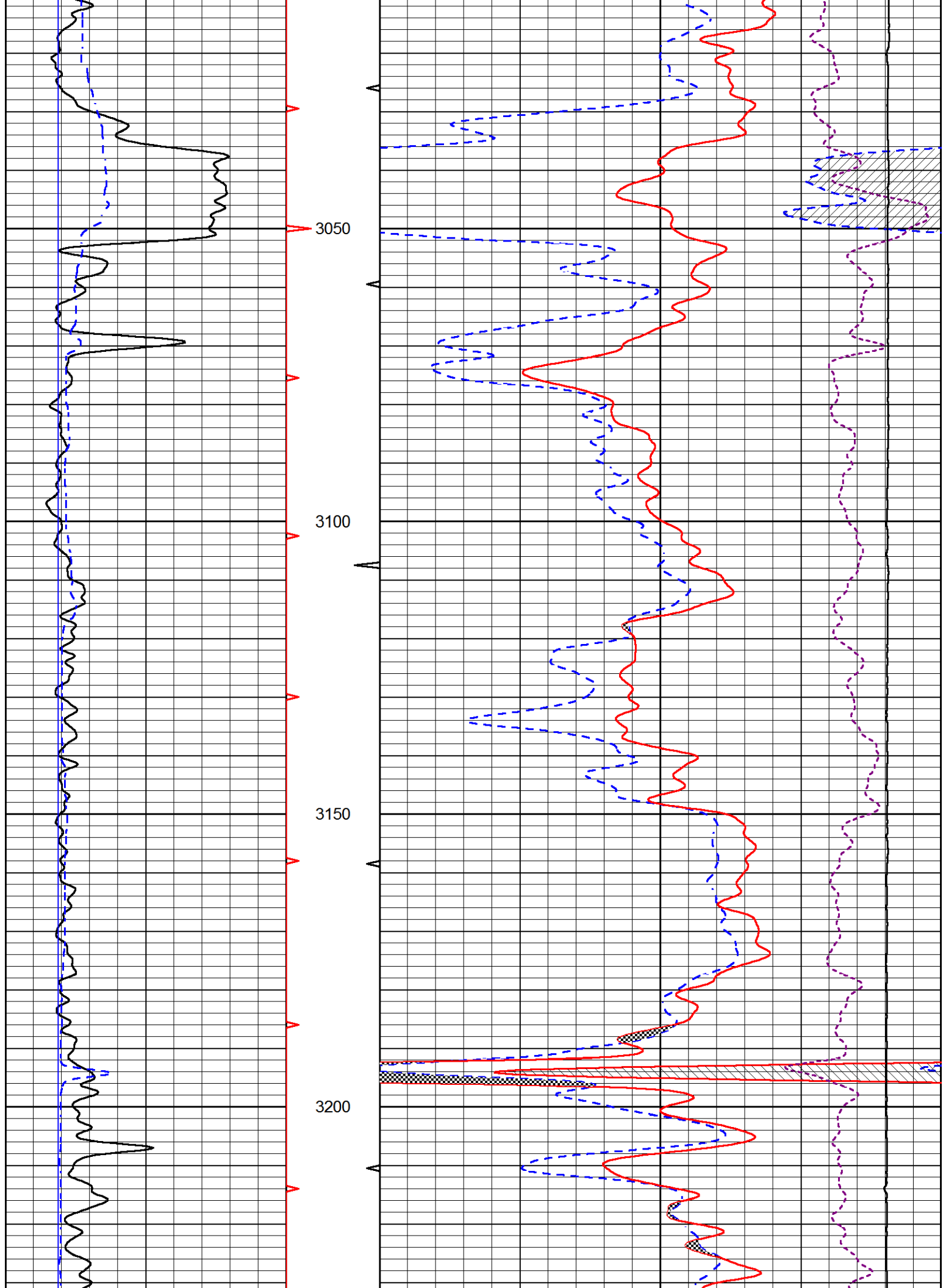
30	CNLS (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0

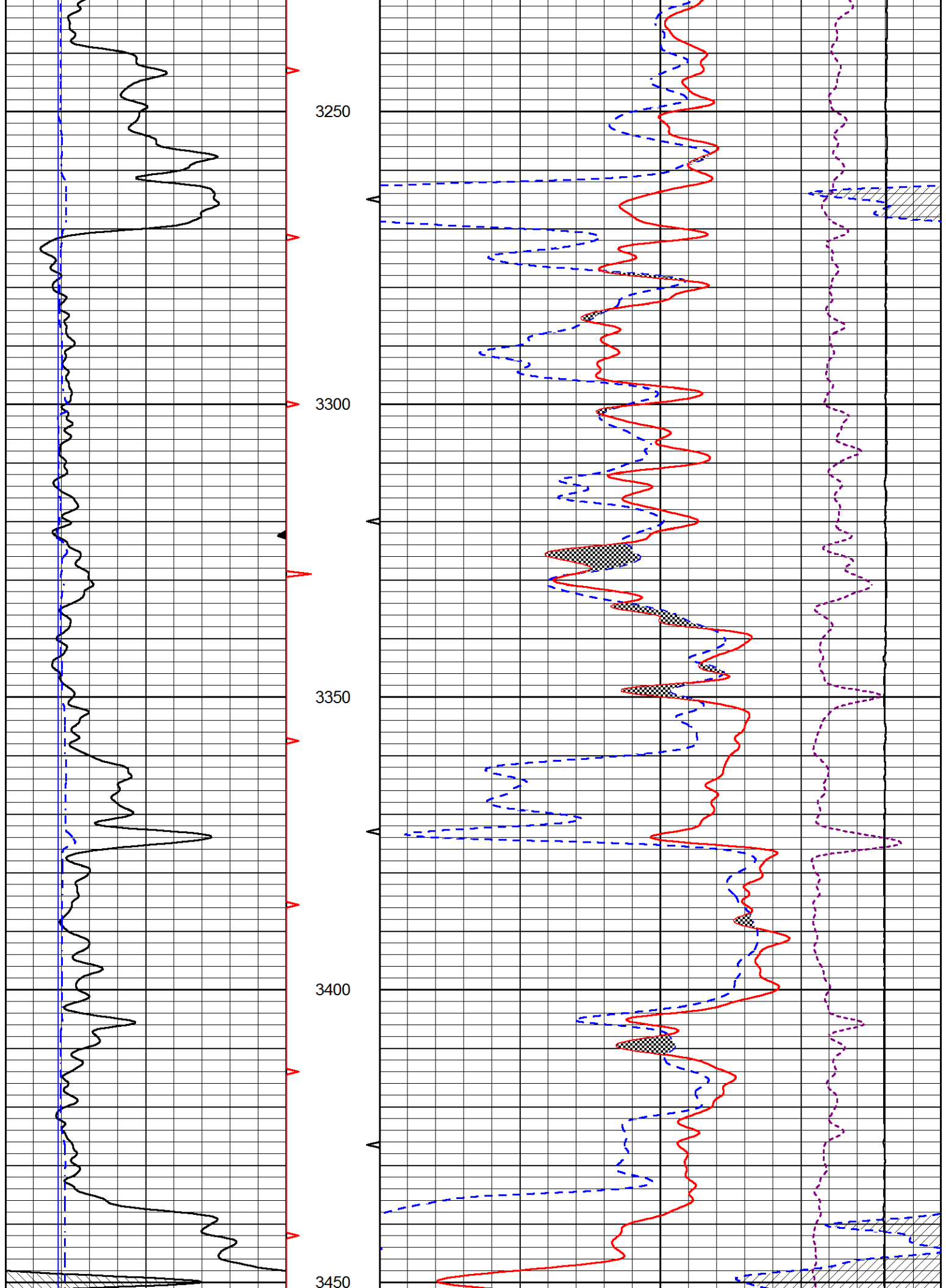
-0.25 CORRECTION (g/cc) 0.25

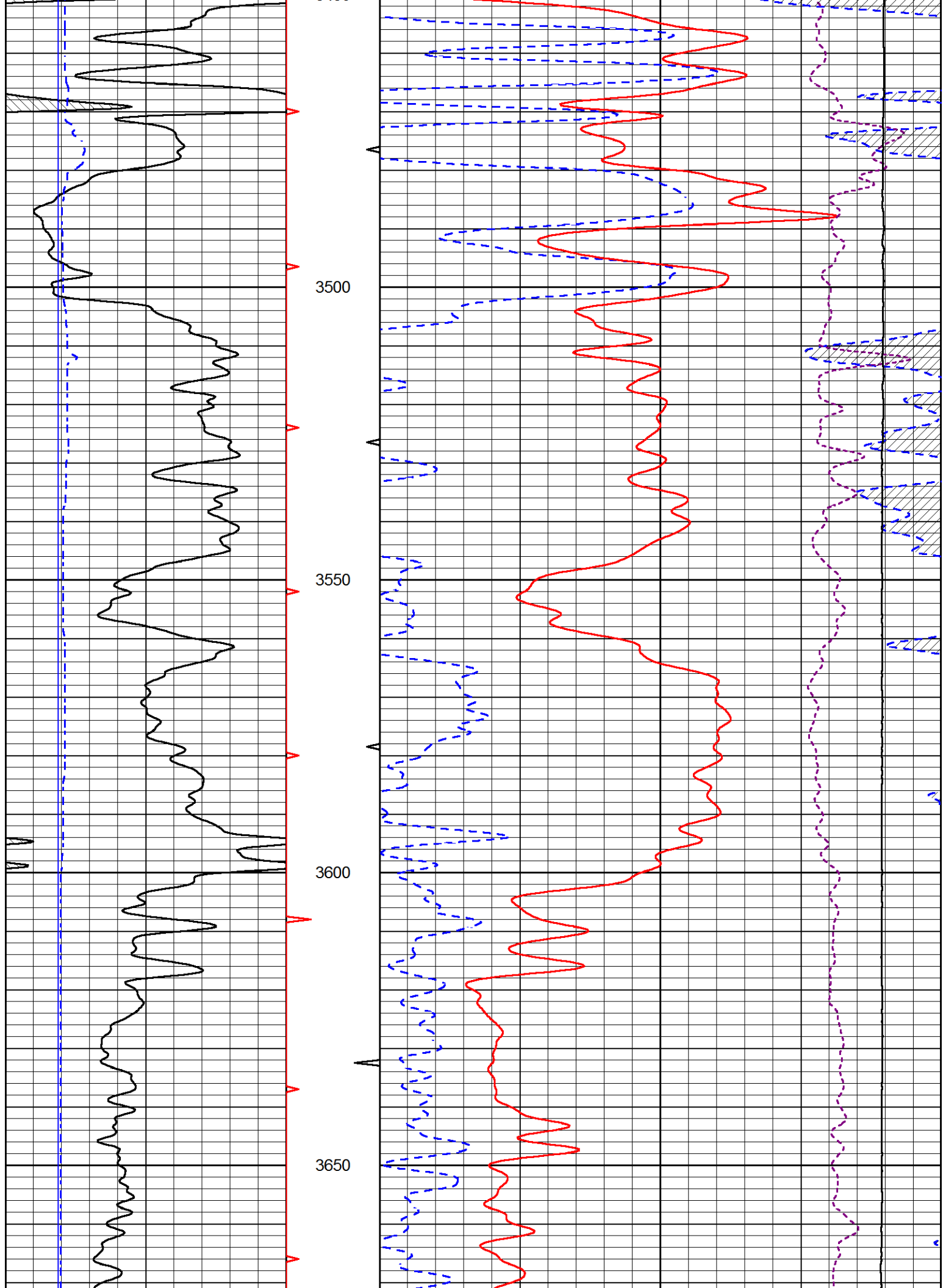


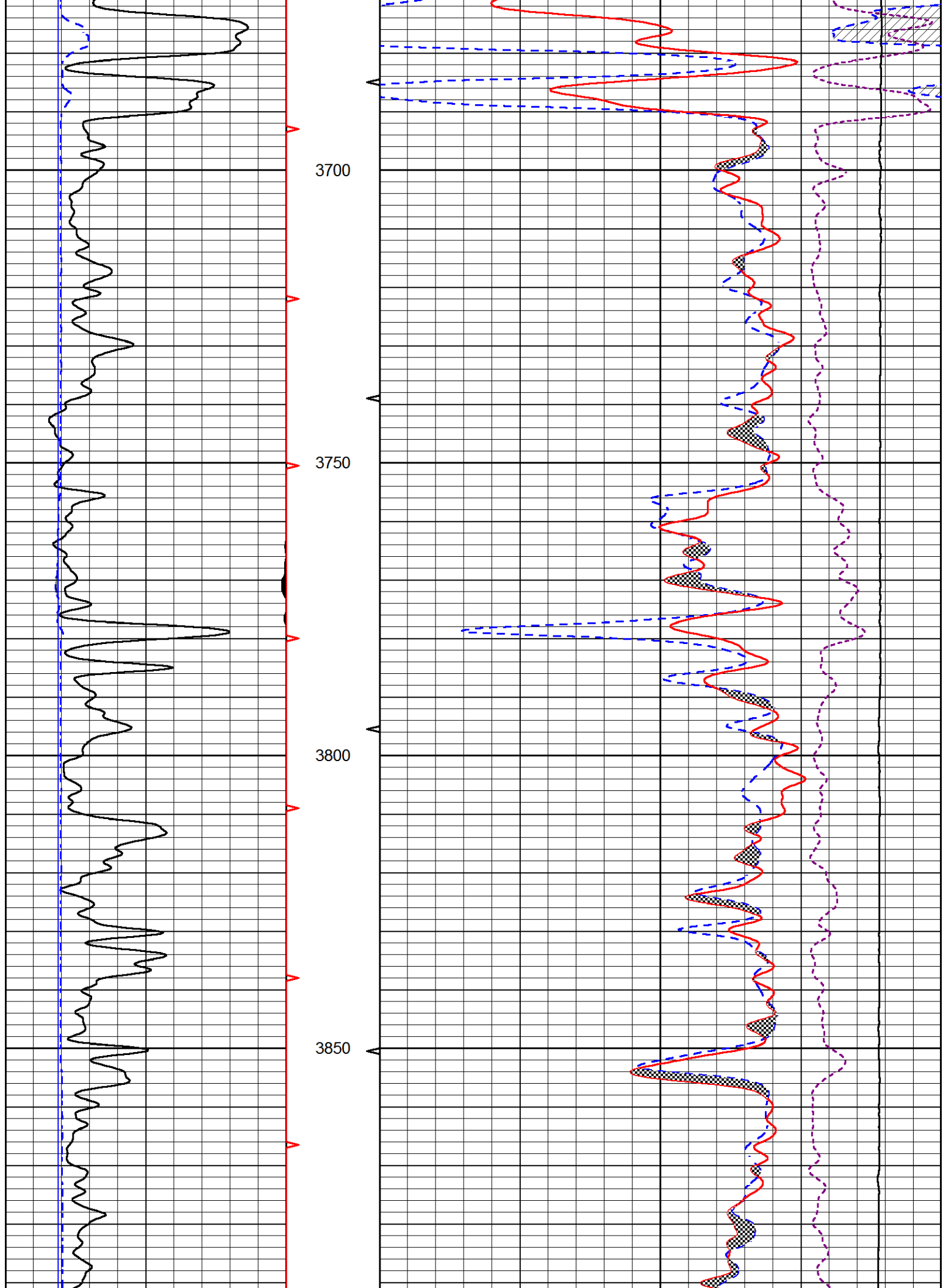


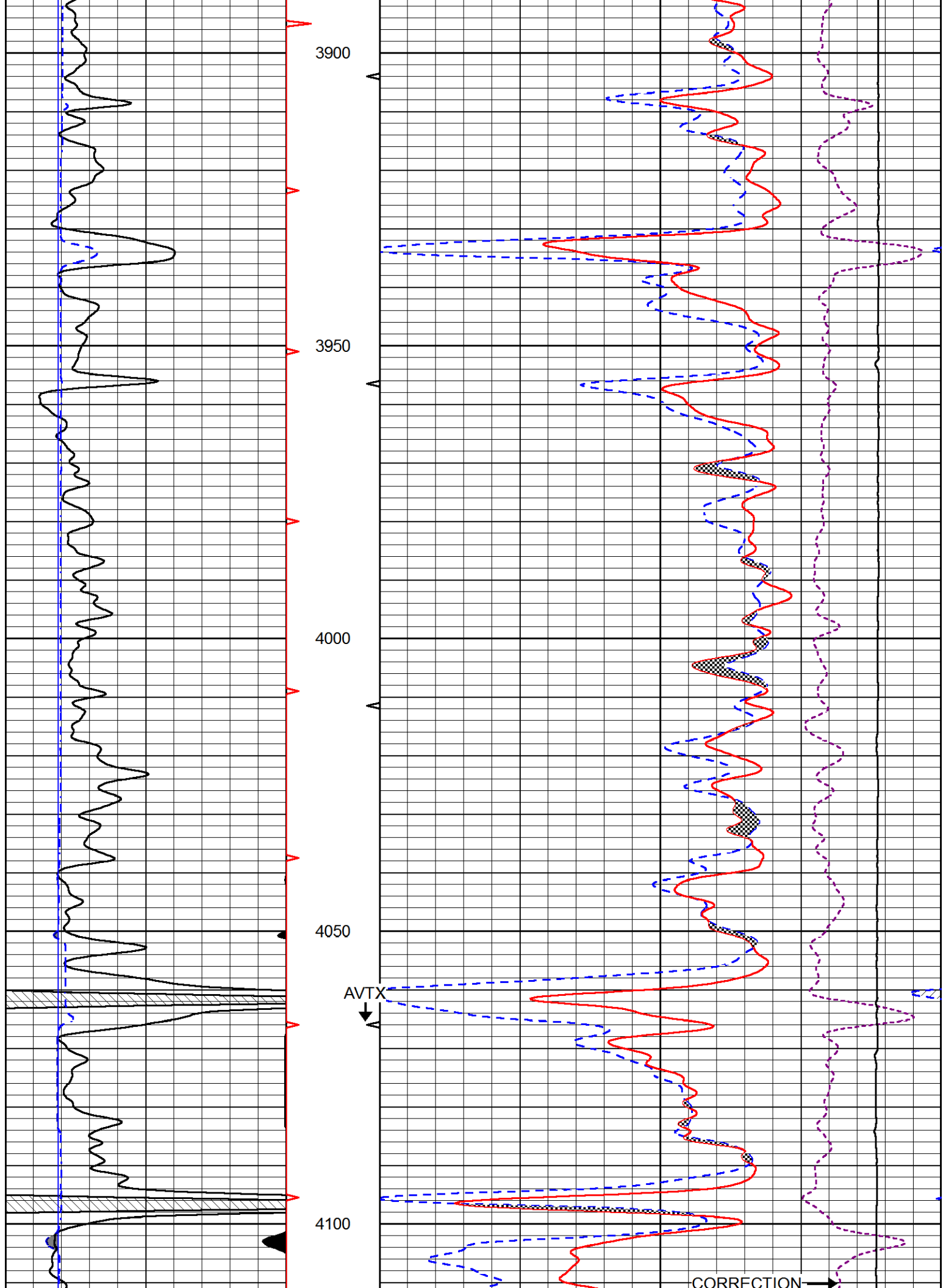


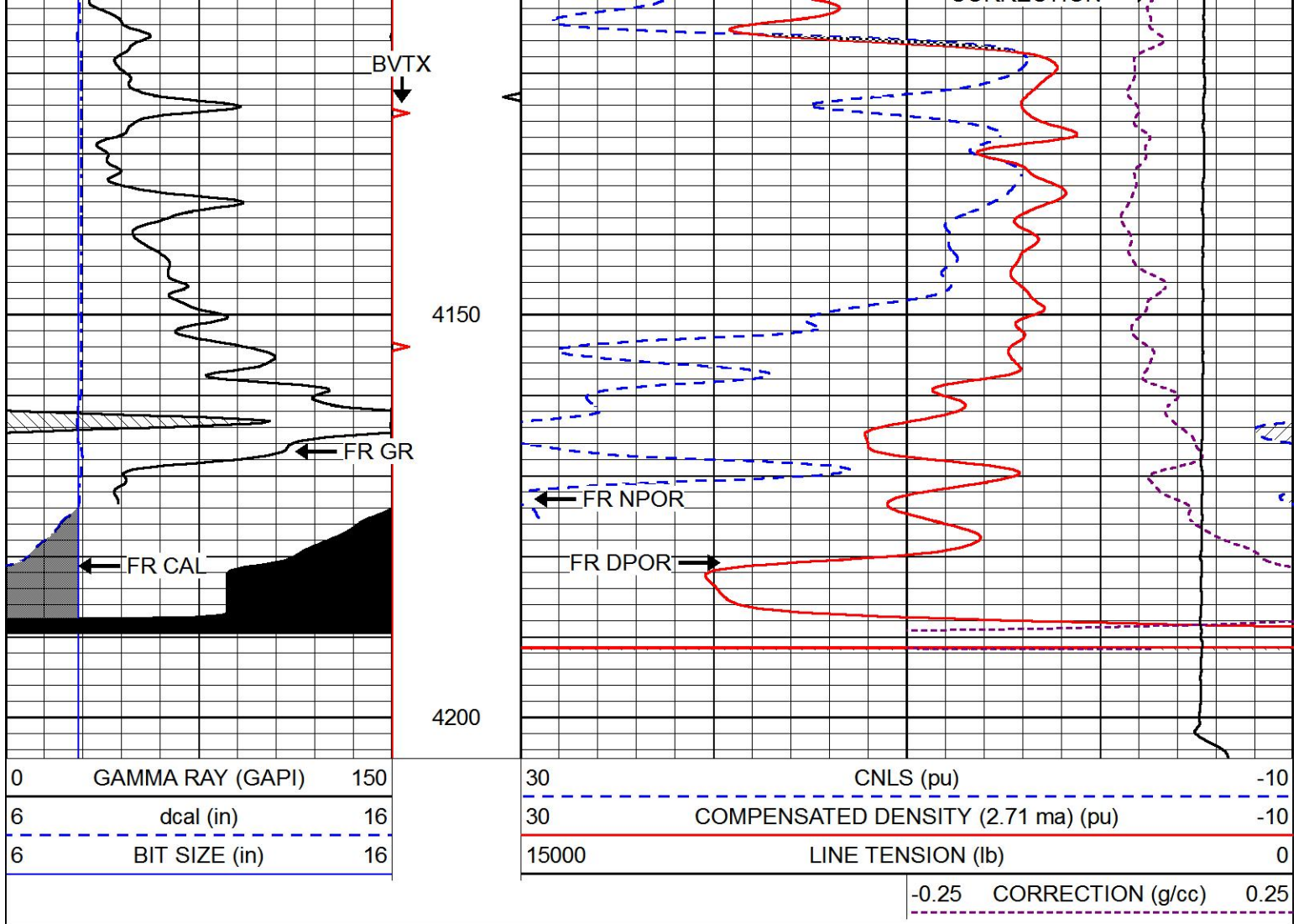






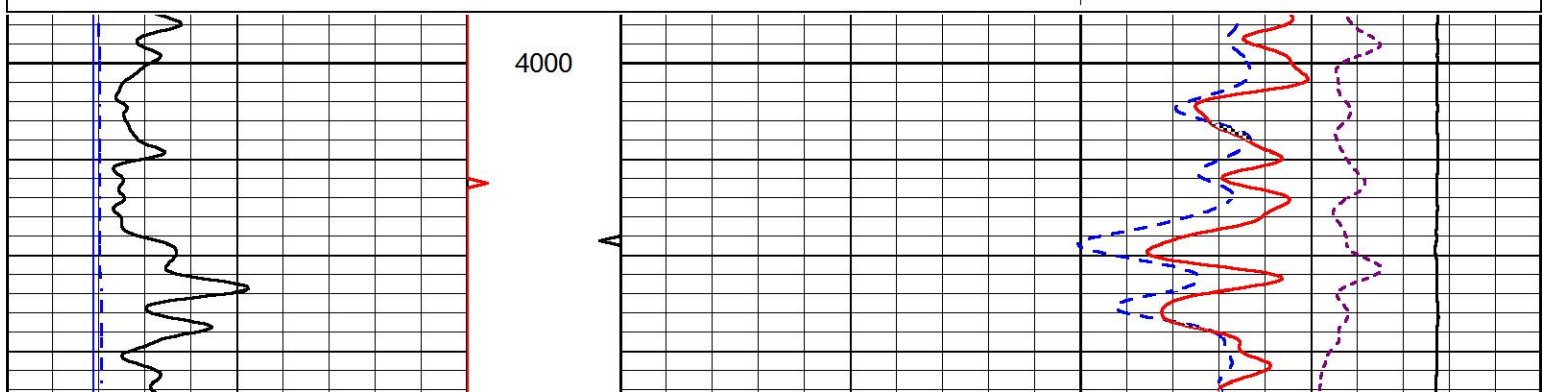
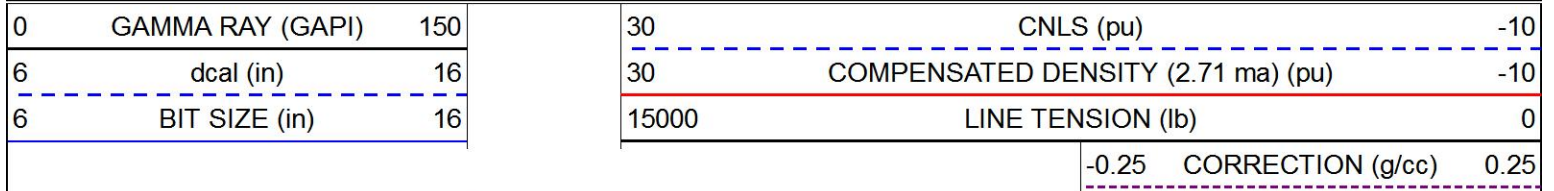


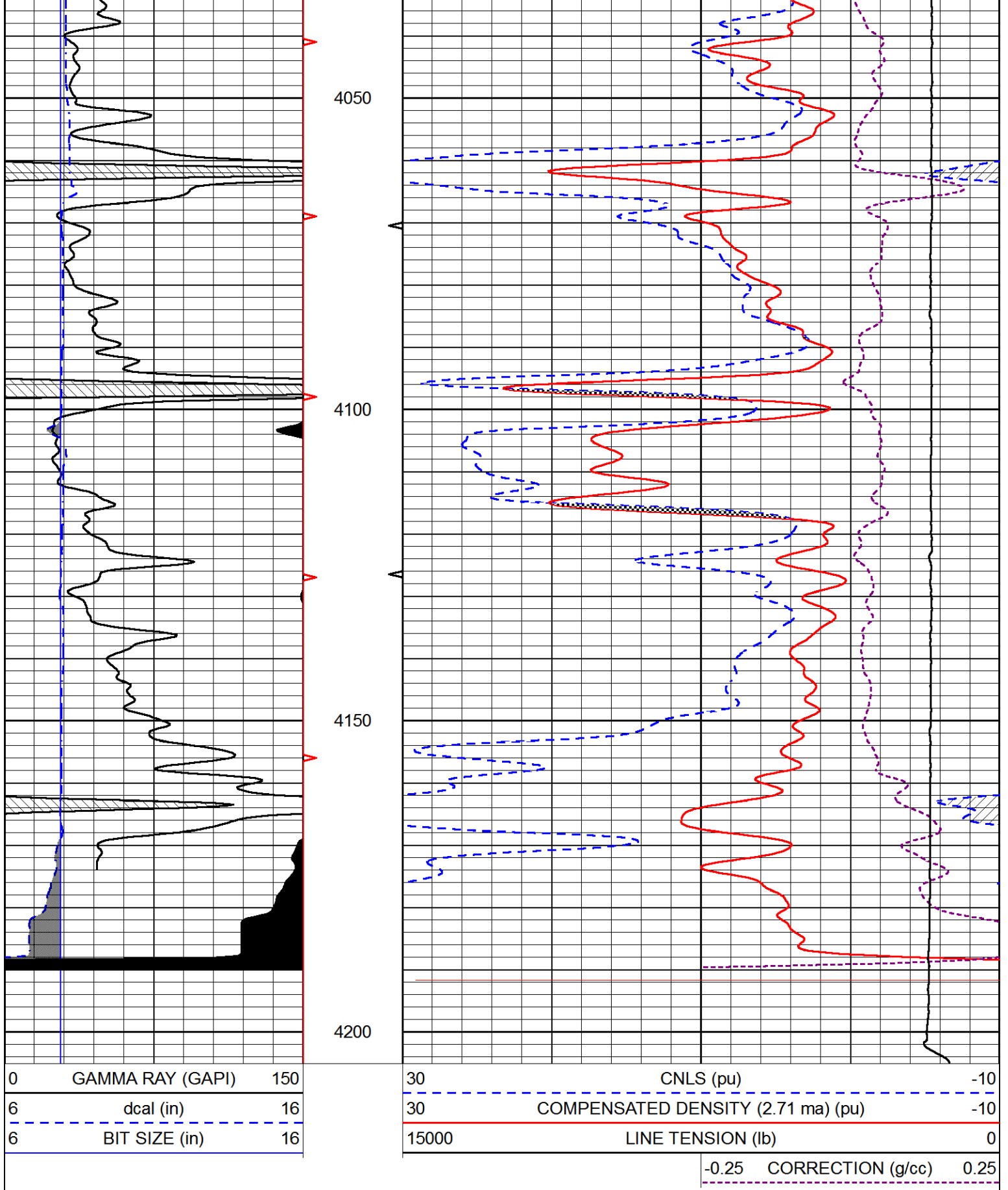





REPEAT SECTION

Database File: r&b_goetz_a_1.db
 Dataset Pathname: stack/pass2.1
 Presentation Format: cndlspec
 Dataset Creation: Wed Apr 25 08:36:16 2018
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File r&b_goetz_a_1.db
 Dataset Pathname stack/pass3.1
 Dataset Creation Wed Apr 25 09:17:17 2018

Serial-Model:
Calibration Performed:

PSI 978-M&W
Sun Feb 04 11:50:02 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.570	-40.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.400	-37.000

Compensated Density Calibration Report

Serial-Model: 168-986-M&W
Source / Verifier: /
Master Calibration Performed: Tue Apr 11 17:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.523		
	Size		Reading		
Small Ring	4.00	in	1.00		
Large Ring	14.00	in	1.20		

Compensated Neutron Calibration Report

Serial Number: tk10-MW
Tool Model: M&W
Calibration Performed: Wed Nov 16 11:21:36 2016

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-M&W
Tool Model: M&W
Calibration Performed: Tue Apr 11 17:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps



PIONEER

Company R & B OIL & GAS, INC.
Well GOETZ A #1
Field SIVEY-GRABS
County KINGMAN

Pioneer Energy Services

State

KANSAS



DUAL INDUCTION LOG

Pioneer Energy Services

Company **R & B OIL & GAS, INC.**
 Well **GOETZ A #1**
 Field **SIVEY-GRABS**
 County **KINGMAN** State **KANSAS**

Company **R & B OIL & GAS, INC.**
 Well **GOETZ A #1**
 Field **SIVEY-GRABS**
 County **KINGMAN**
 State **KANSAS**

Location: **API # : 15-095-22321-00-00**
1090' FNL & 660' FEL
SEC 18 TWP 30S RGE 9W
 Permanent Datum **GROUND LEVEL Elevation 1700'**
 Log Measured From **KELLY BUSHING**
 Drilling Measured From **KELLY BUSHING**
 Other Services **CDL/CNL**
 Elevation **K.B. 1705'**
D.F. N/A
G.L. 1700'

Date	4/25/2018
Run Number	ONE
Depth Driller	4200'
Depth Logger	4201'
Bottom Logged Interval	4200'
Top Log Interval	200'
Casing Driller	8.625" @ 245'
Casing Logger	245'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	5000
Density / Viscosity	9.1 50
pH / Fluid Loss	11.0 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.45 @ 50
Rmt @ Meas. Temp	0.34 @ 50
Rmc @ Meas. Temp	0.61 @ 50
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.19 @ 118
Operating Rig Time	2 HOURS
Max Rec. Temp. F	118 DEGF
Equipment Number	108
Location	HAYS
Recorded By	IAN MABB
Witnessed By	TIM PIERCE

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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.
 ZENDA, KS. 3 MILES WEST , 1/4 SOUTH, WEST INTO

Log Measured From: **KELLY BUSHING** 5 Ft. Above Permanent Datum

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


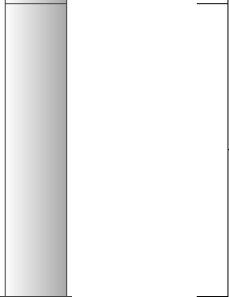
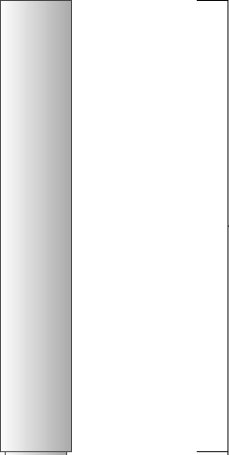

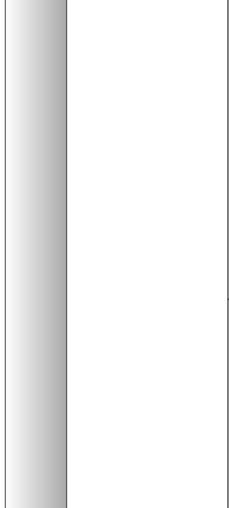
Your Pioneer Energy Services Crew Engineer: IAN MABB Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: TIM PIERCE Secondary Witness: Secondary Witness: Secondary Witness:
---	--

Log Variables

DatabaseC:\ProgramData\Warrior\Data\&b_goetz_a_1.db
Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

A 1	BOREID in 7.875	BOTTEMP degF 100	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	M 2	MATRXDEN g/cc 2.71
NPORSEL Limestone	PERFS 0	SNDERR mmho/m 4	SNDERRM mmho/m 4	SPSHIFT mV -160	SRFTEMP degF 56	SZCOR Off	TDEPTH ft 4201

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	29.90 29.15		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	20.85 20.83 20.35		CDL-M&W (168-986)	8.50	4.00	250.00
RLL3 RLL3F	15.80 15.79					
CILD	8.00		DIL-M&W (PSI 978)	18.50	3.50	220.00

CILM 4.70

SP 0.20

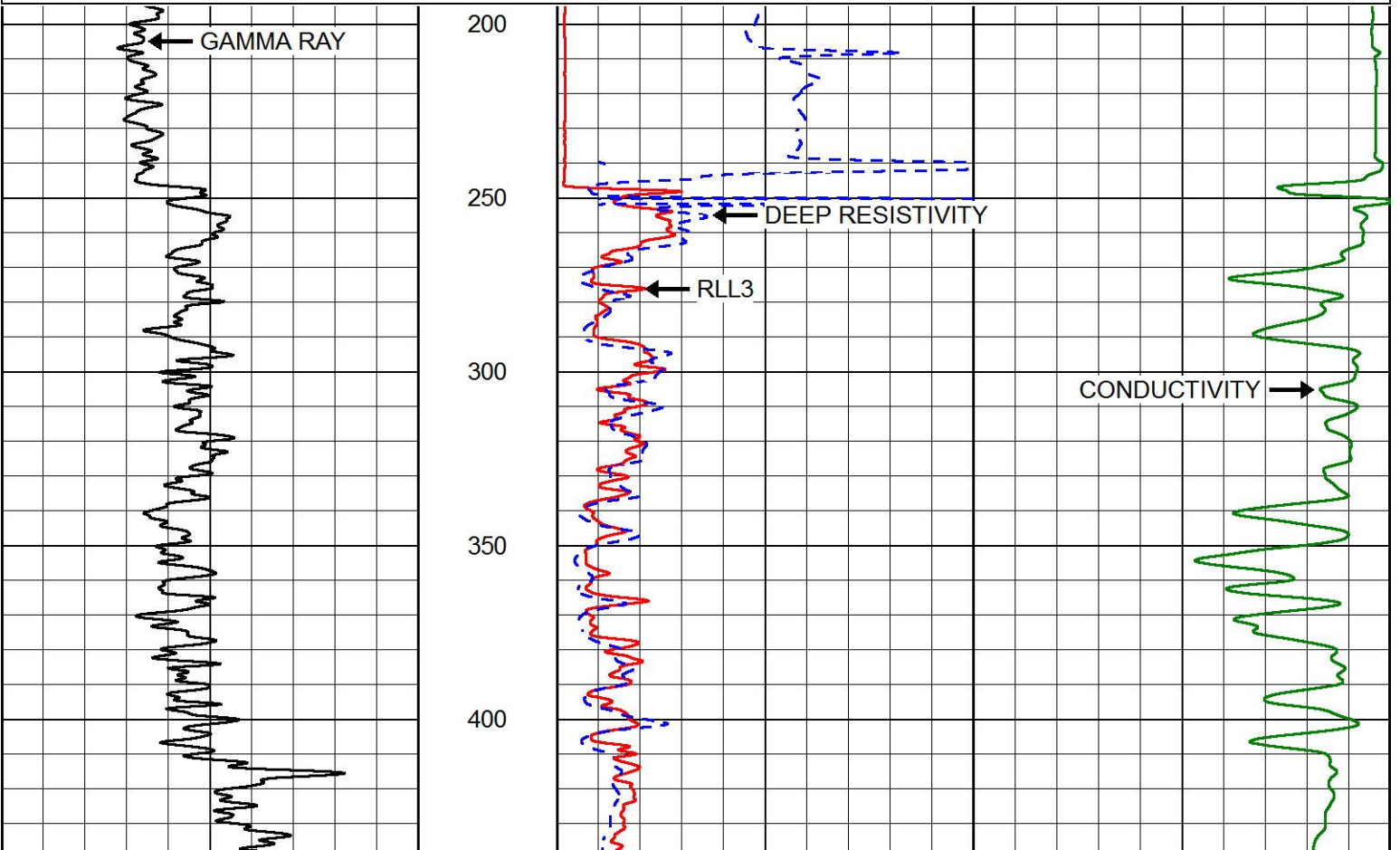
Dataset: r&b_goetz_a_1.db: field/well/stack/pass3.1
 Total length: 35.50 ft
 Total weight: 620.00 lb
 O.D.: 4.00 in

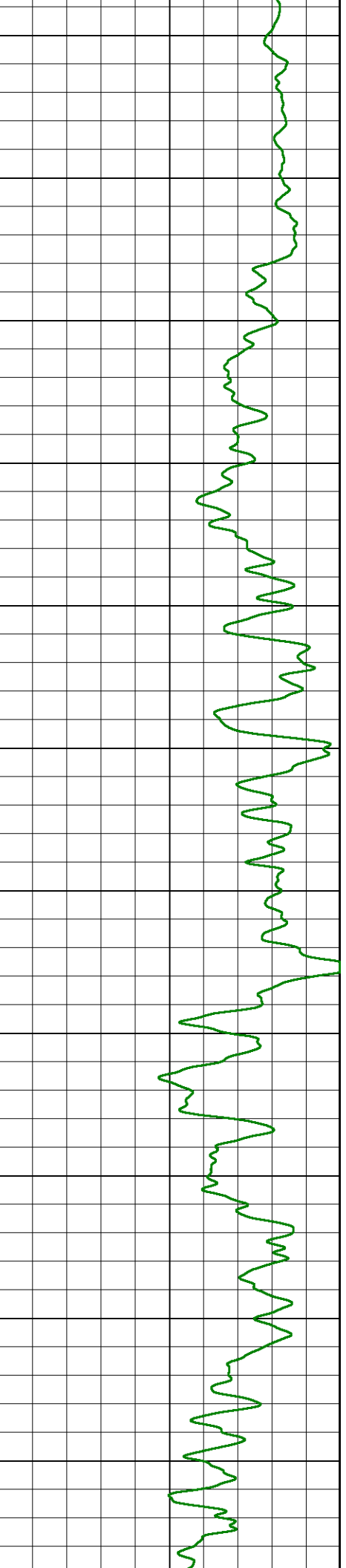
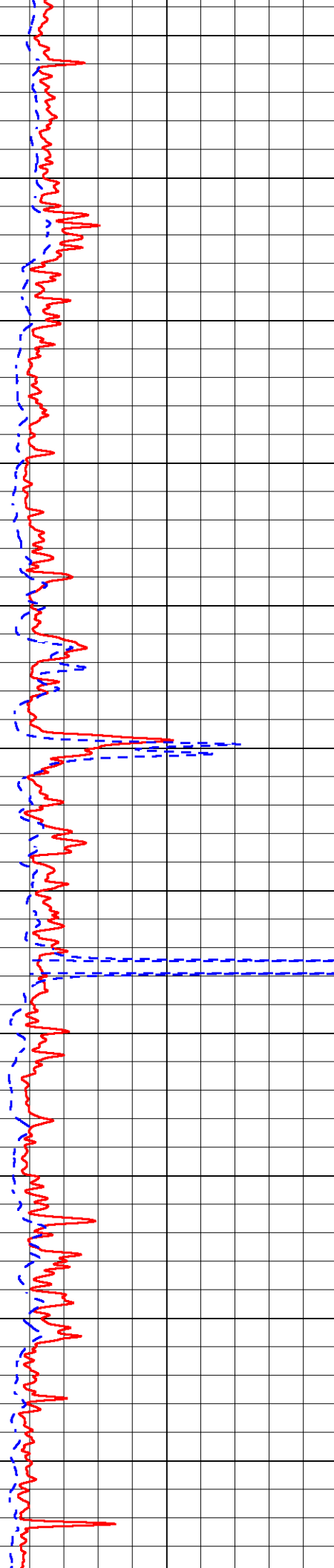
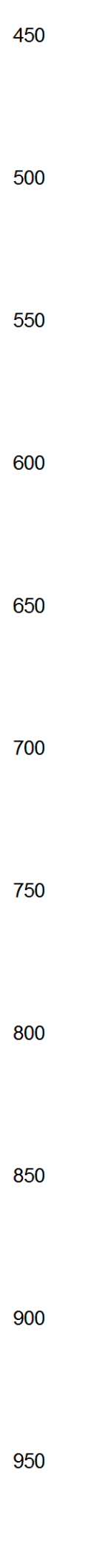
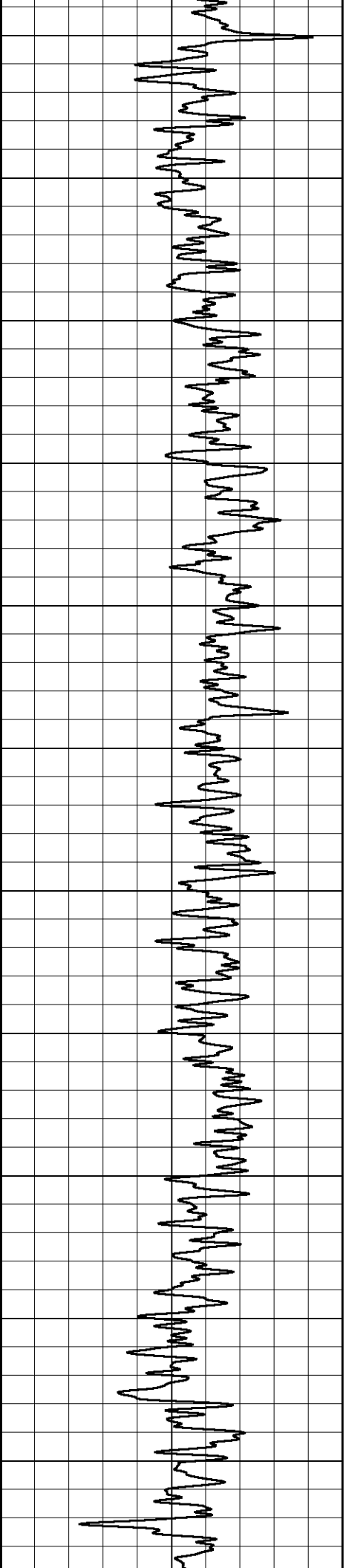


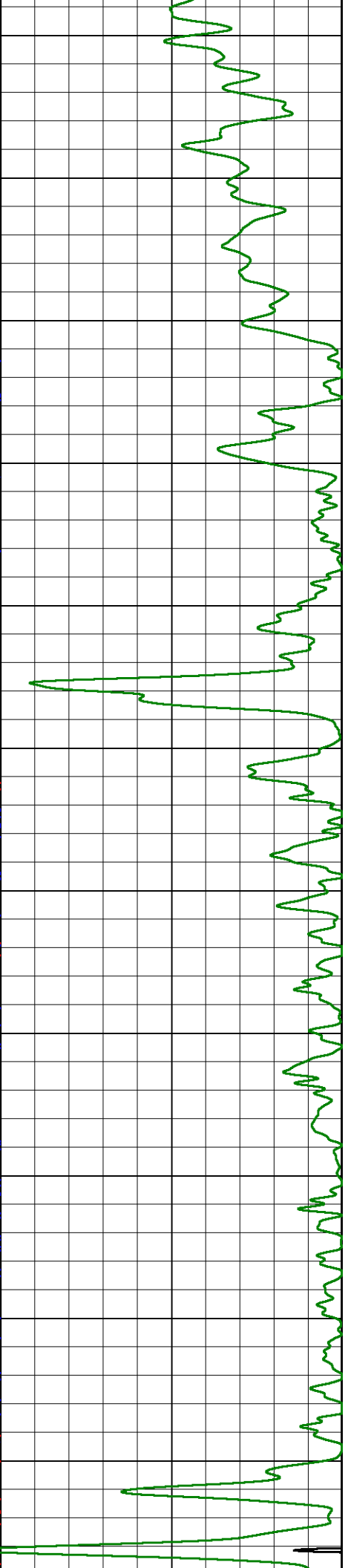
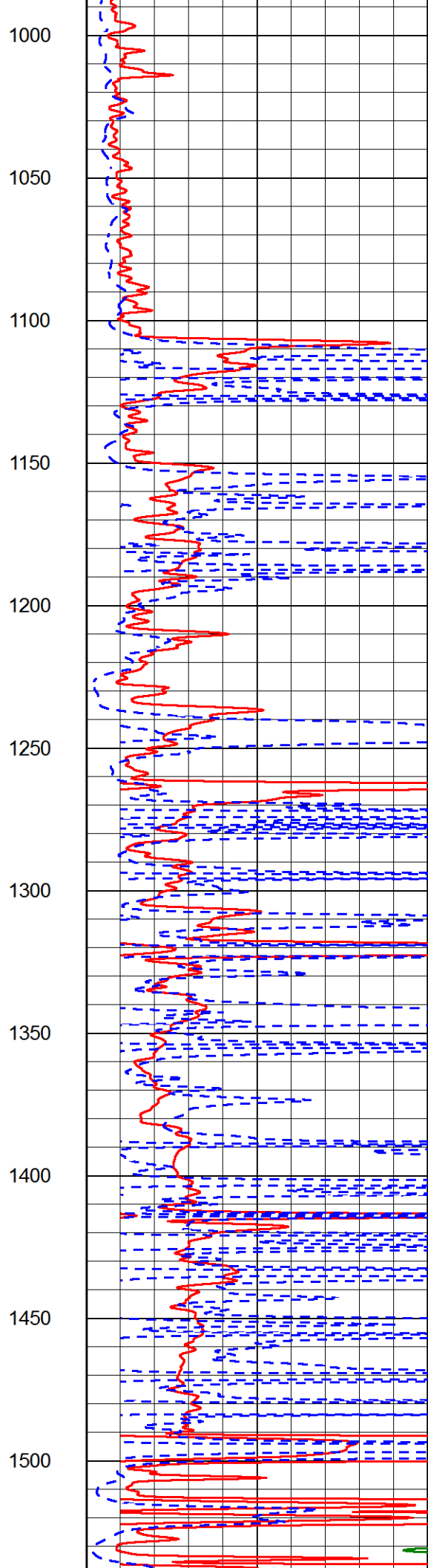
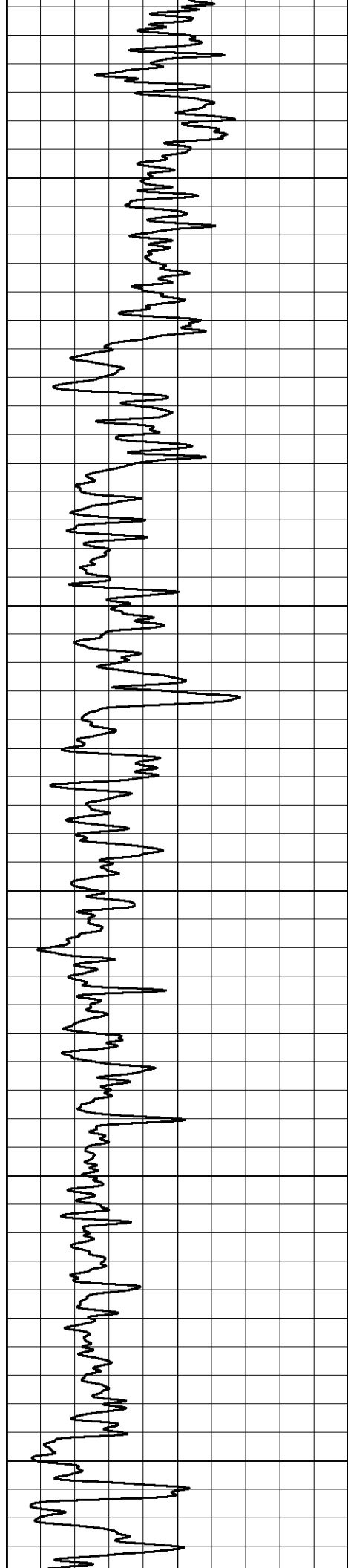
MAIN SECTION

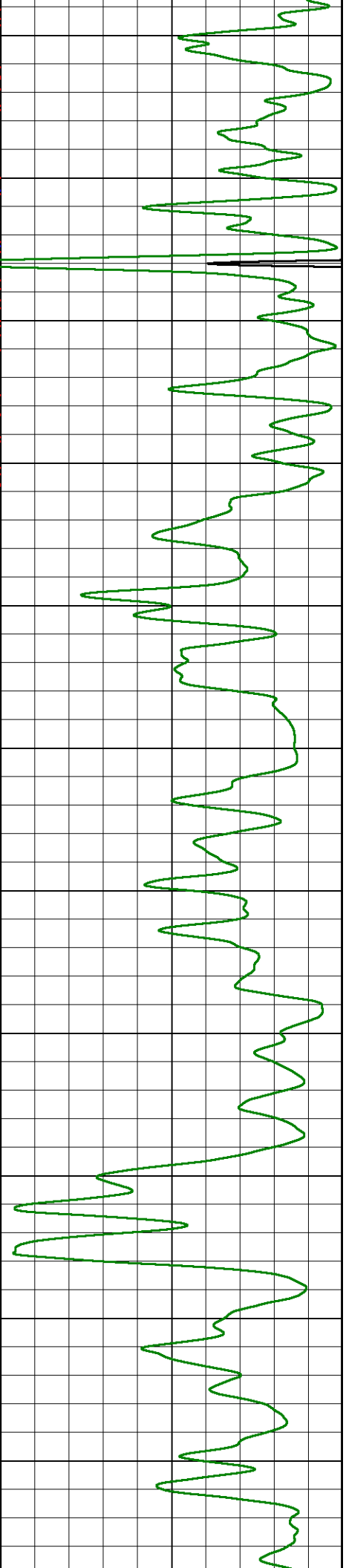
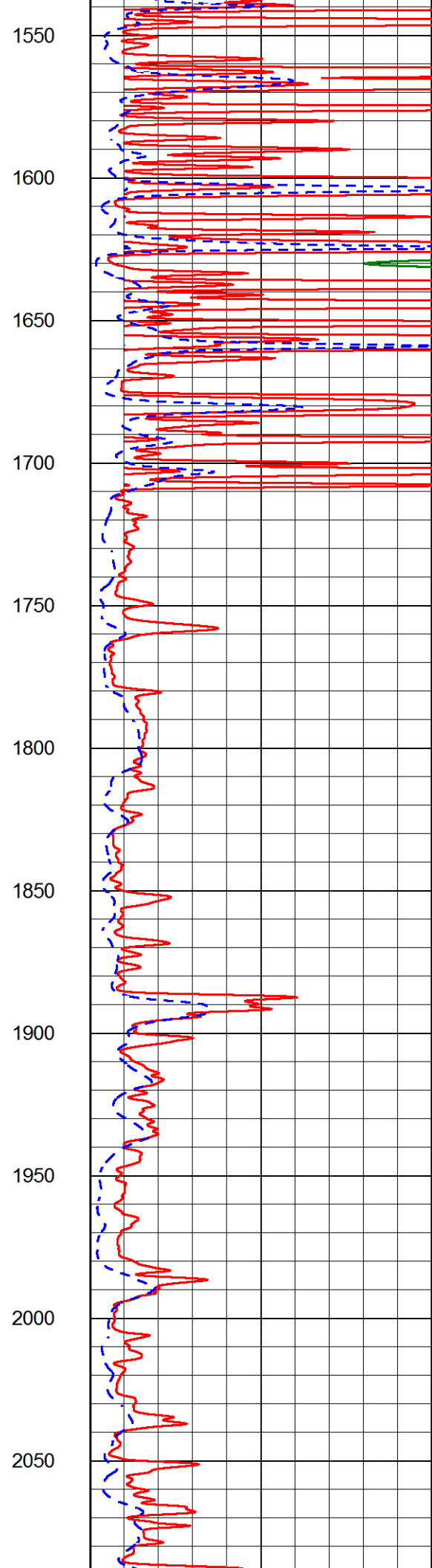
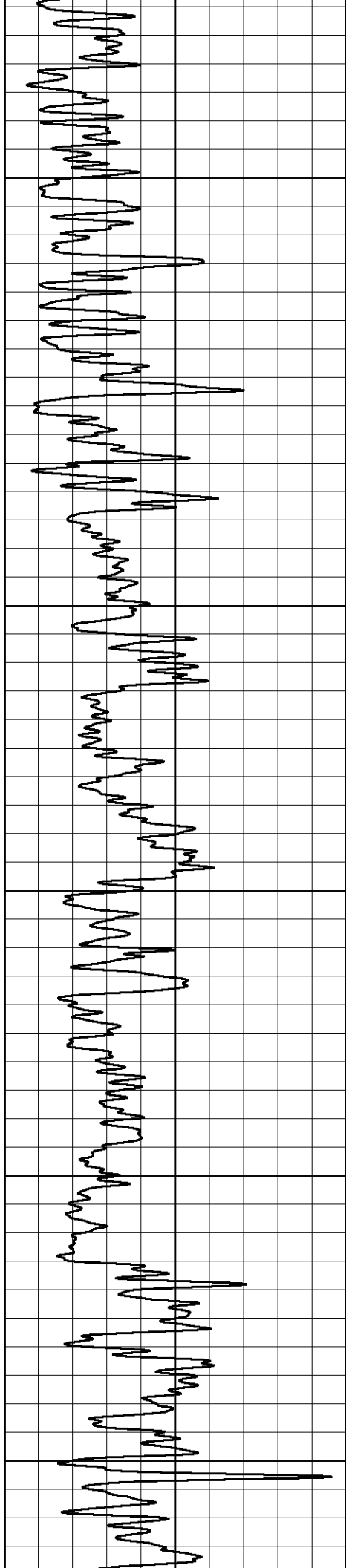
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 Dataset Pathname stack/pass3.1
 Presentation Format dil2in
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 Charted by Depth in Feet scaled 1:600

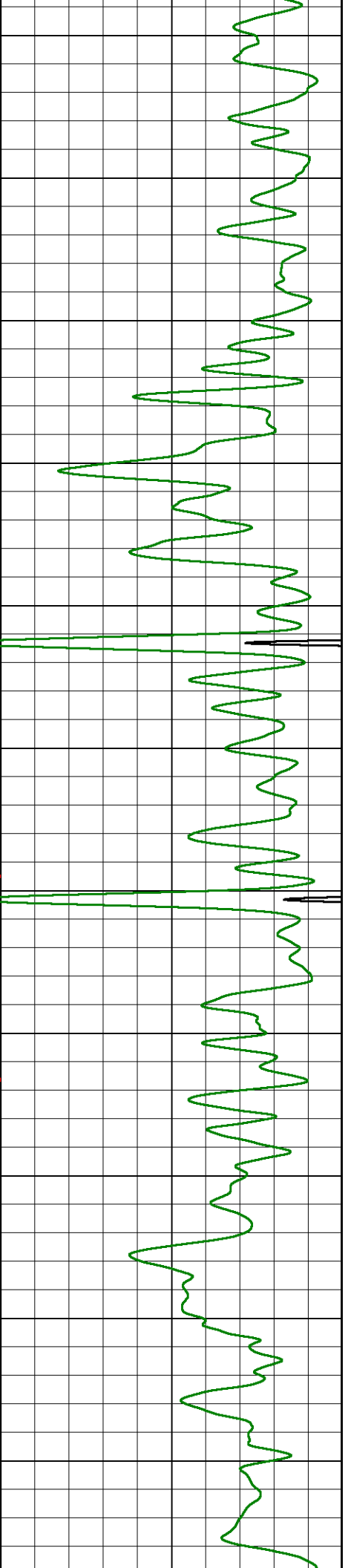
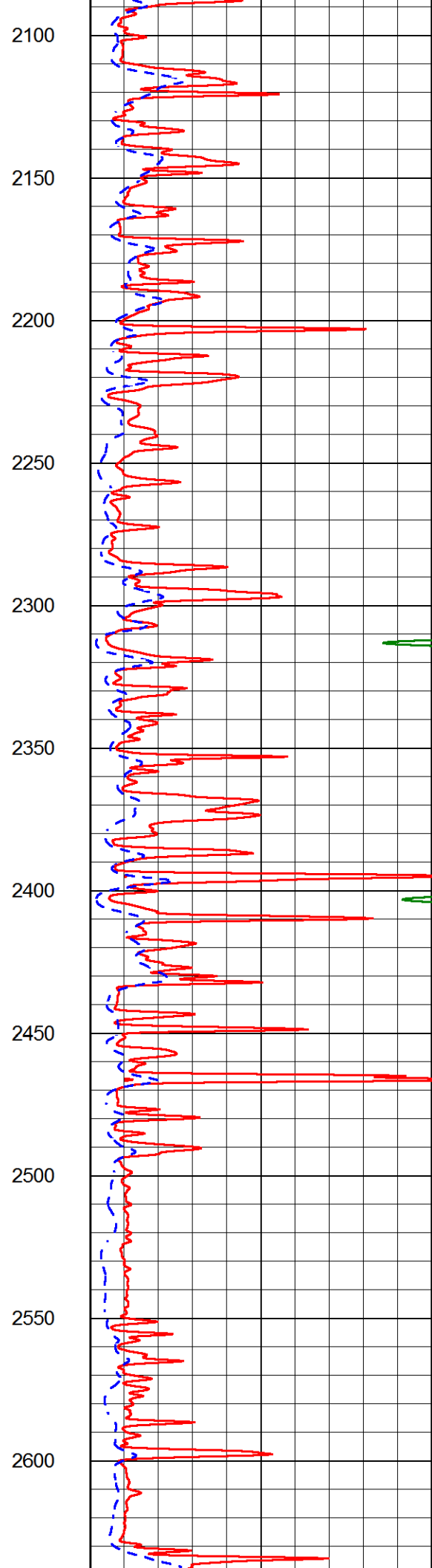
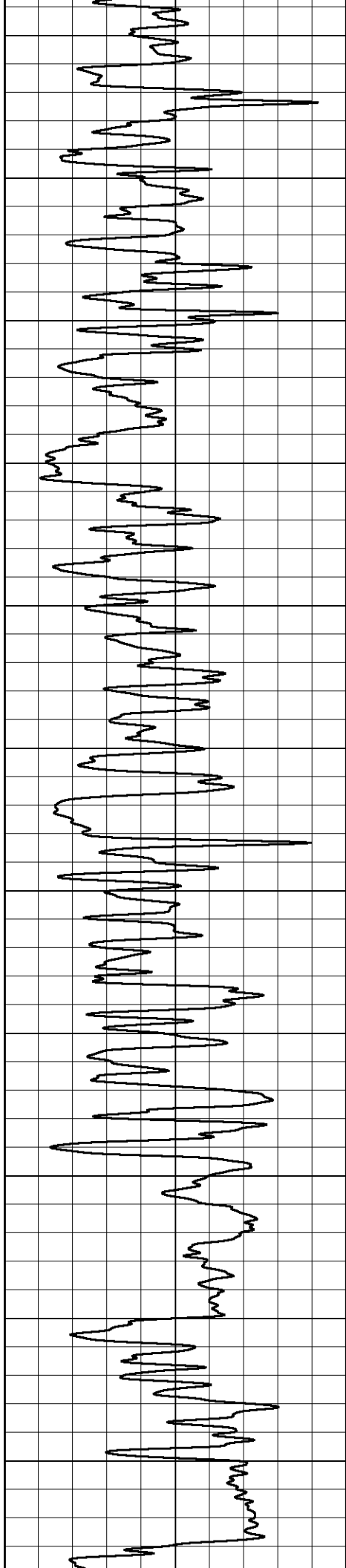
0	GAMMA RAY (GAPI)	150	2000	CONDUCTIVITY (mmho/m)	0
			0	RLL3 (Ohm-m)	50
			0	DEEP RESISTIVITY (Ohm-m)	50
			50	RLL3 (Ohm-m)	500
				DEEP RESISTIVITY	
			50	(Ohm-m)	500

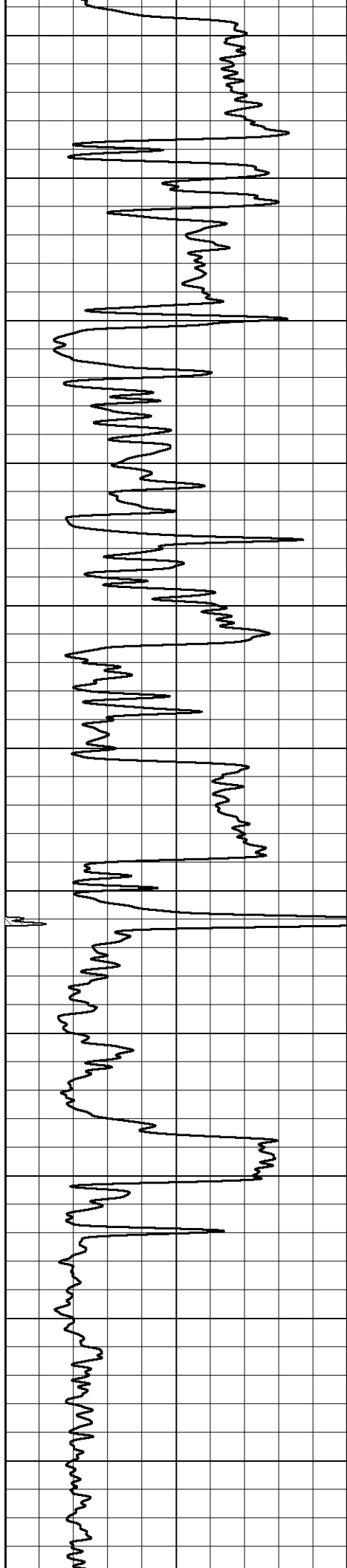












2650

2700

2750

2800

2850

2900

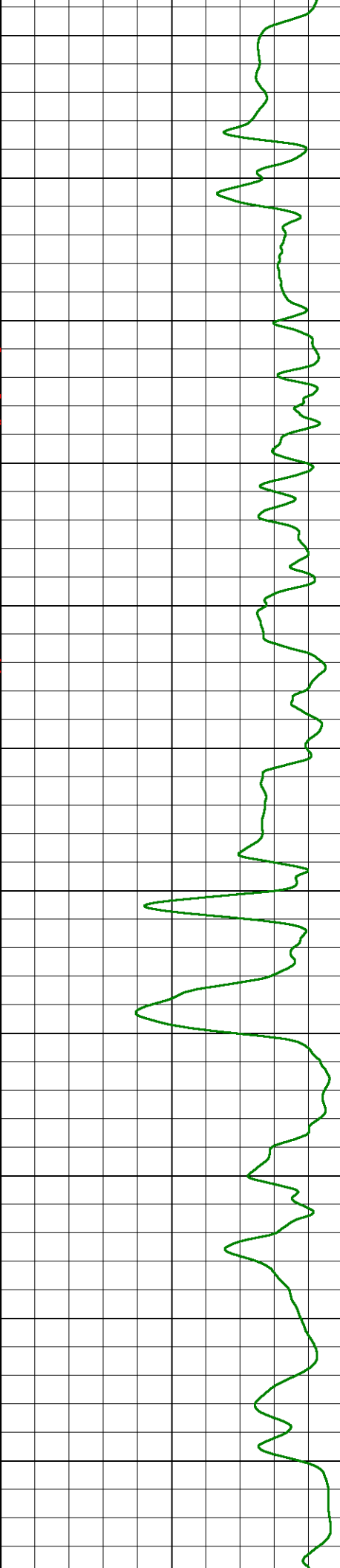
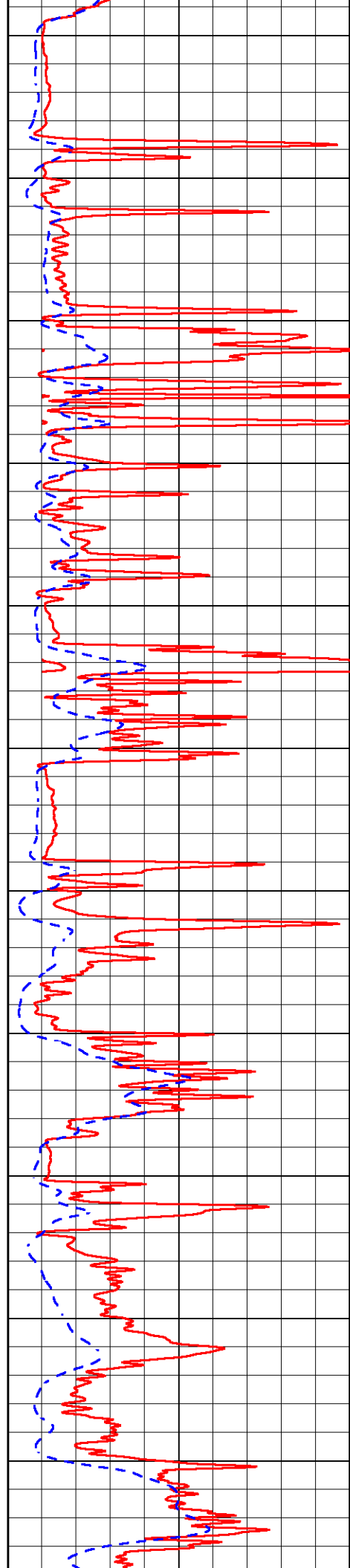
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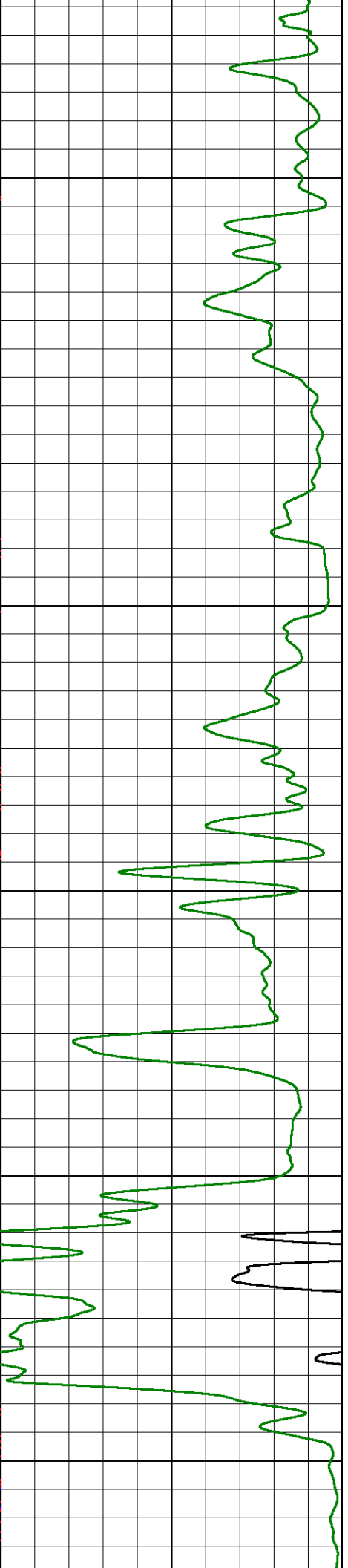
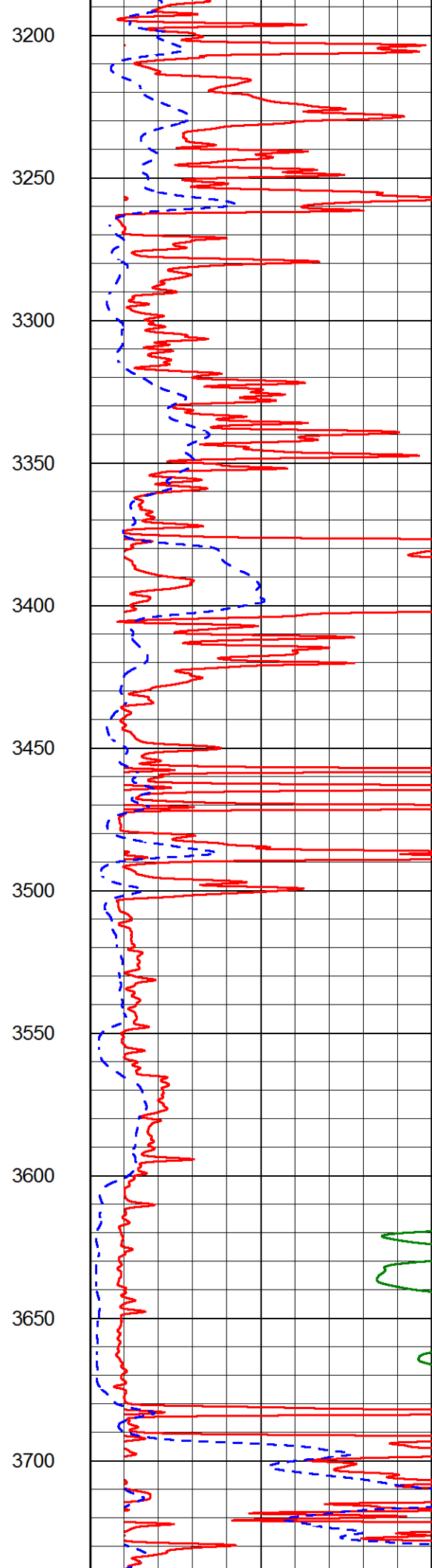
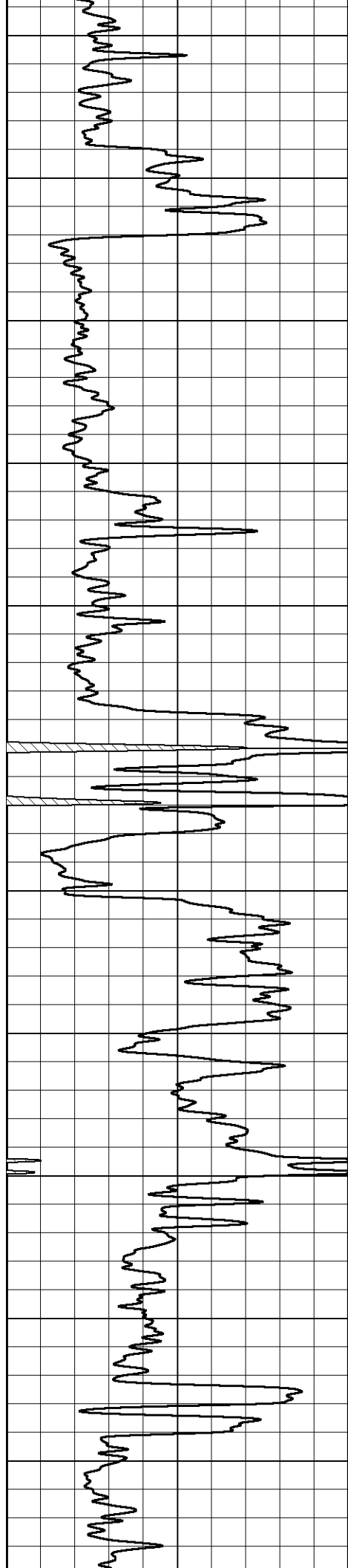
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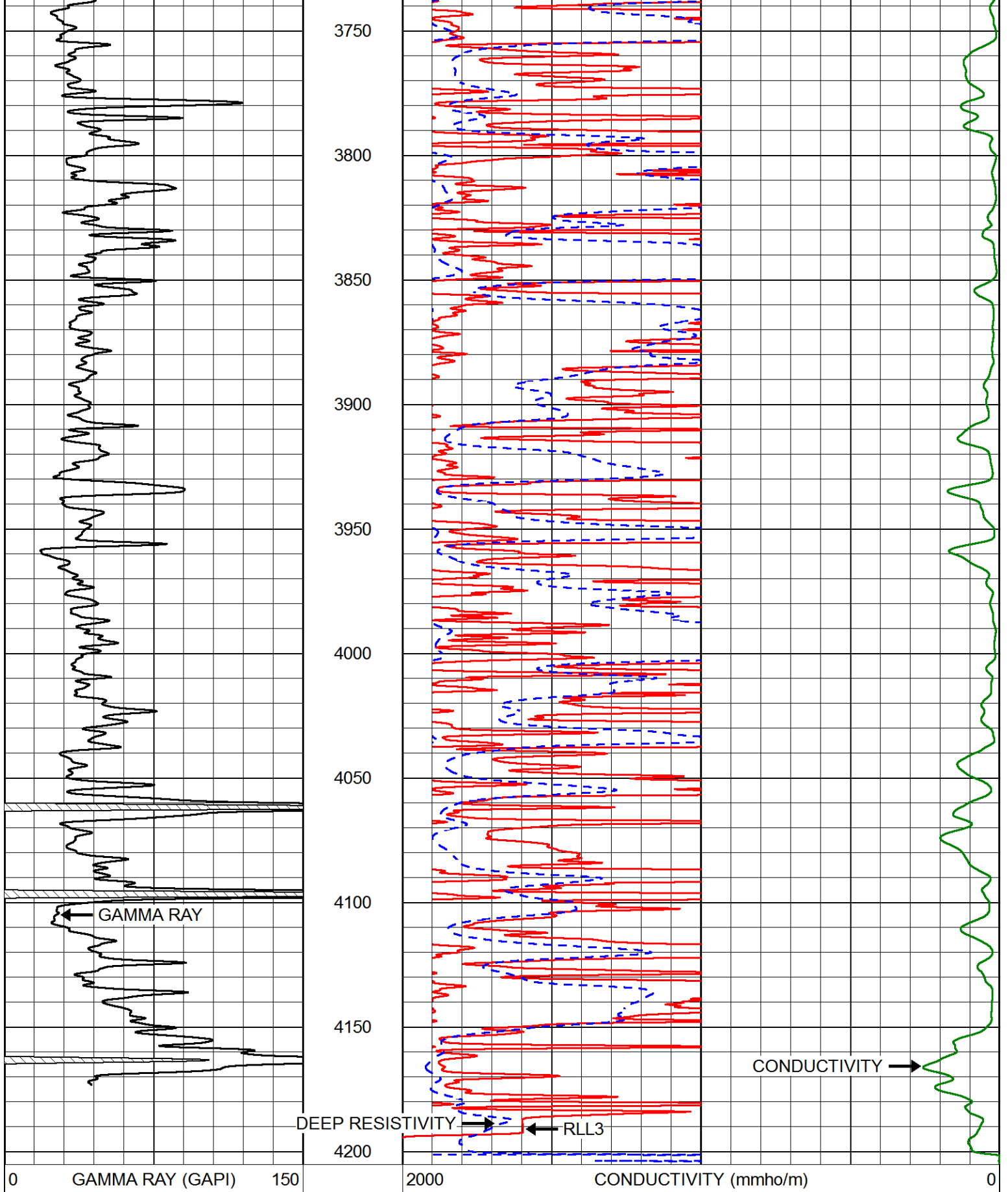
3050

3100

3150







0 GAMMA RAY (GAPI) 150

2000 CONDUCTIVITY (mmho/m) 0

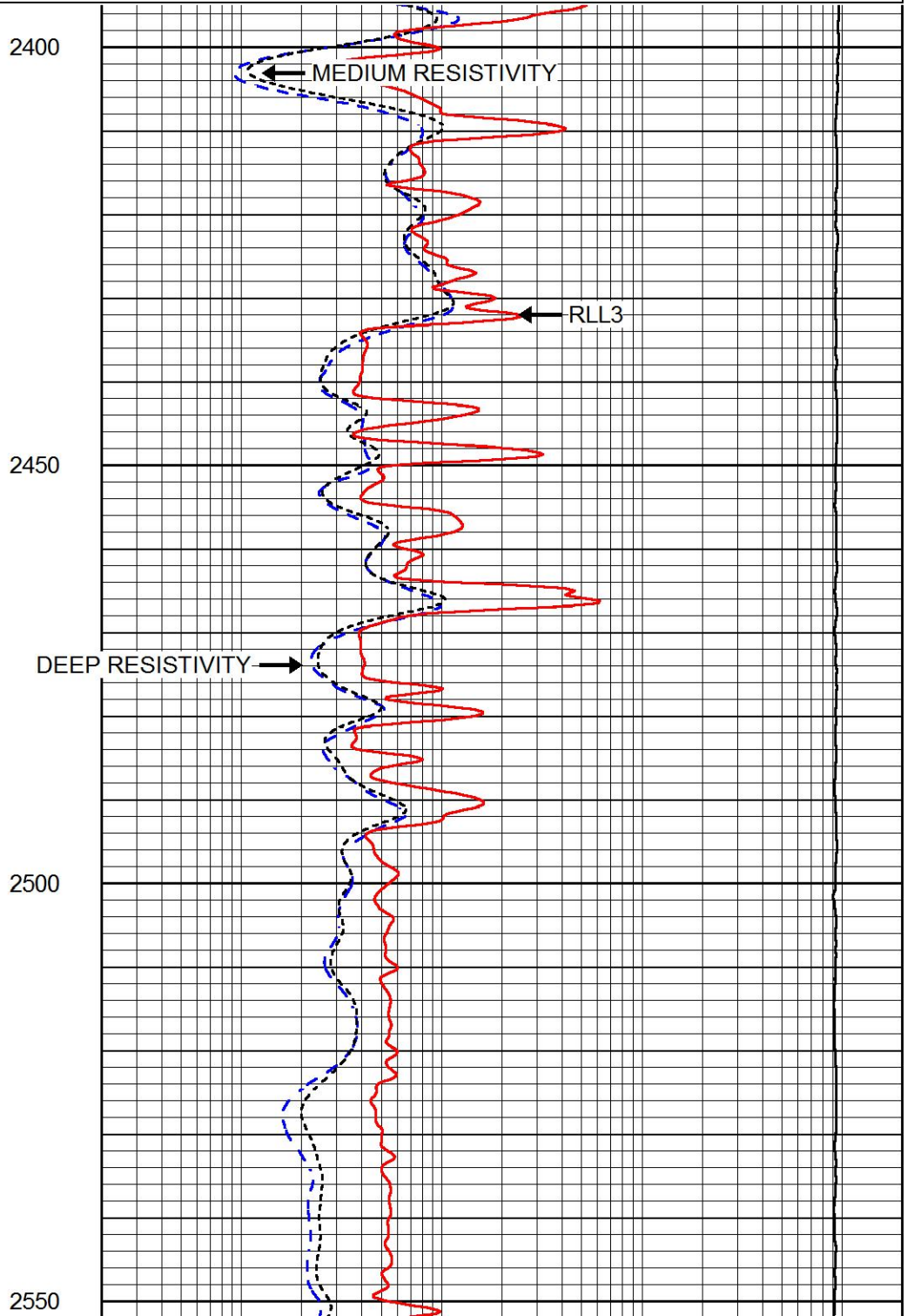
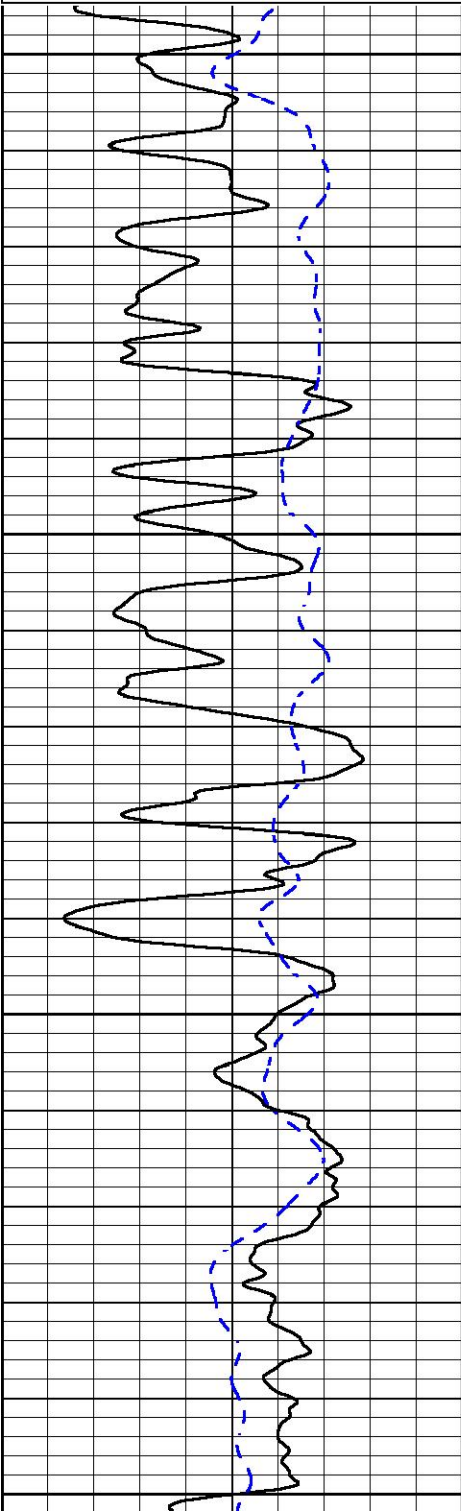
0	RLL3 (Ohm-m)	50
0	DEEP RESISTIVITY (Ohm-m)	50
50	RLL3 (Ohm-m)	500
	DEEP RESISTIVITY	
50	(Ohm-m)	500

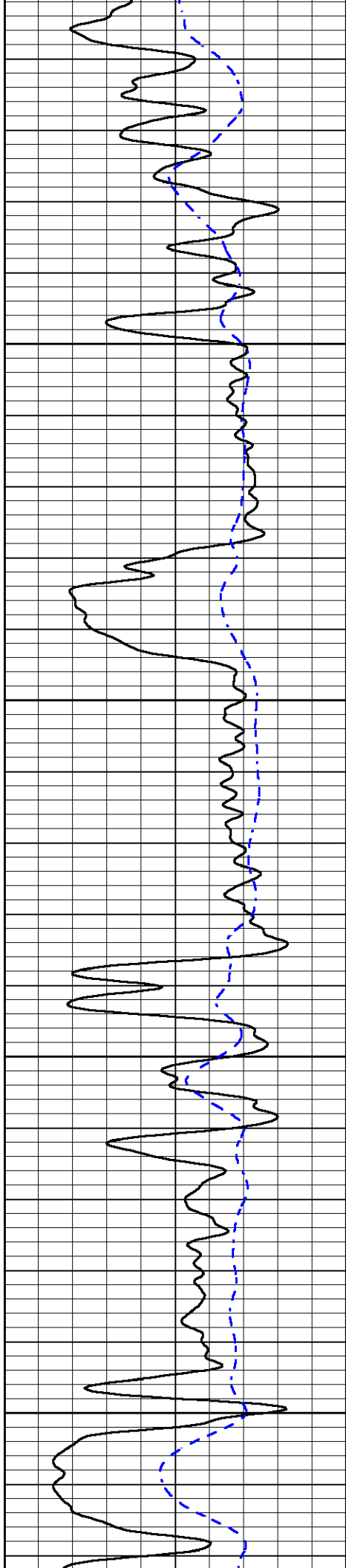
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 Dataset Pathname stack/pass3.1
 Presentation Format dil
 Dataset Creation Wed Apr 25 09:17:17 2018
 Charted by Depth in Feet scaled 1:240

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
15000	LINE TENSION (lb)	0



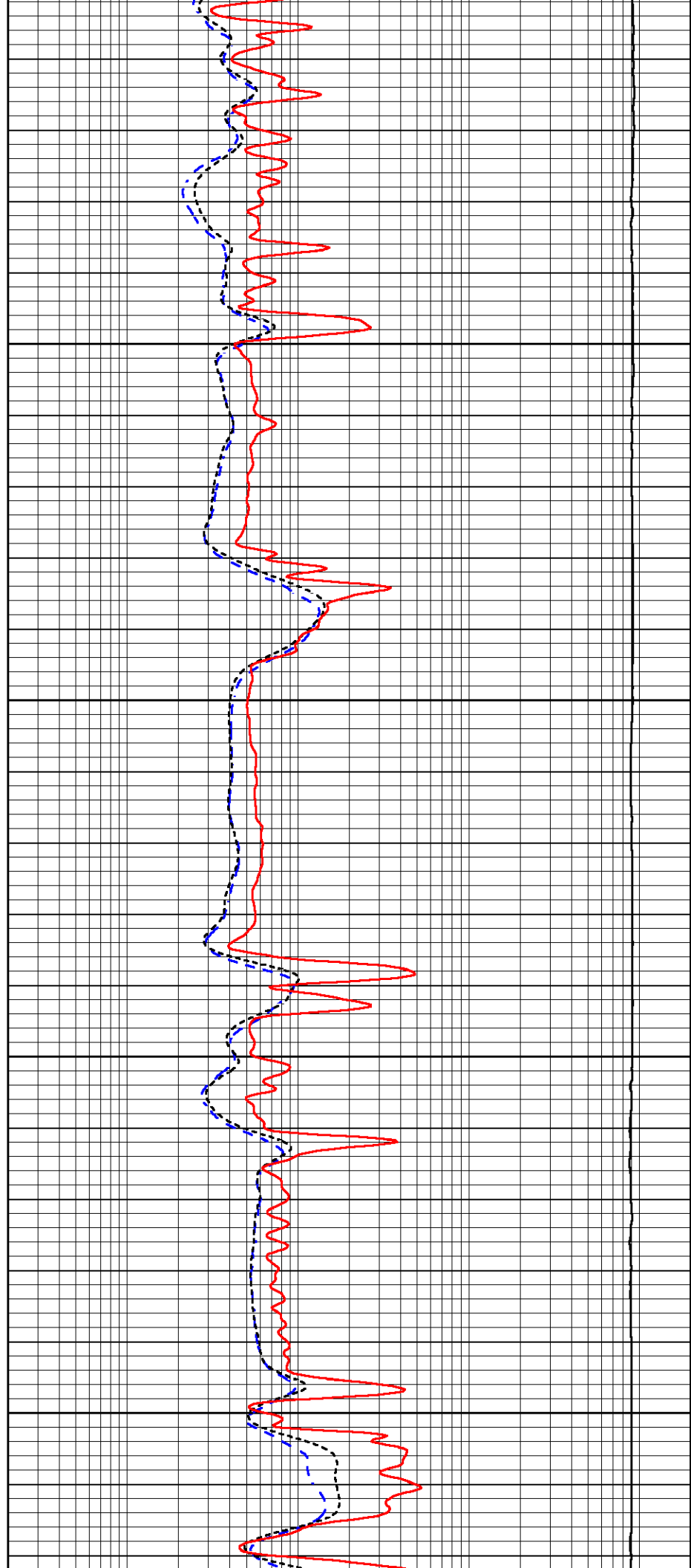


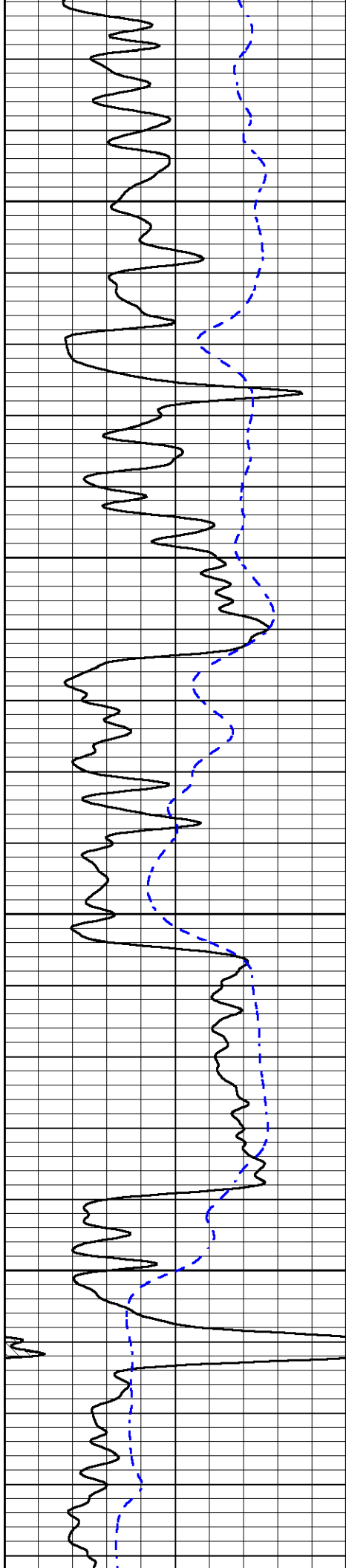
2600

2650

2700

2750



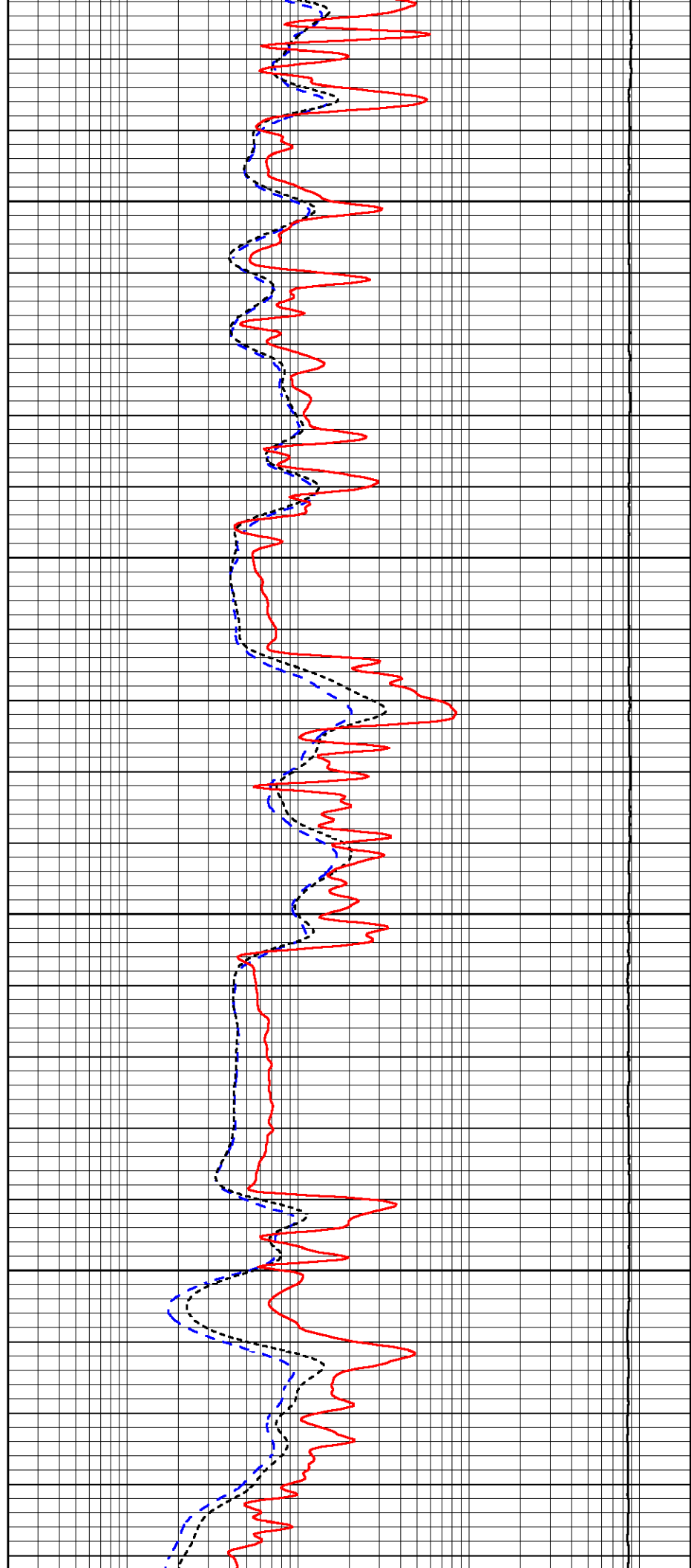


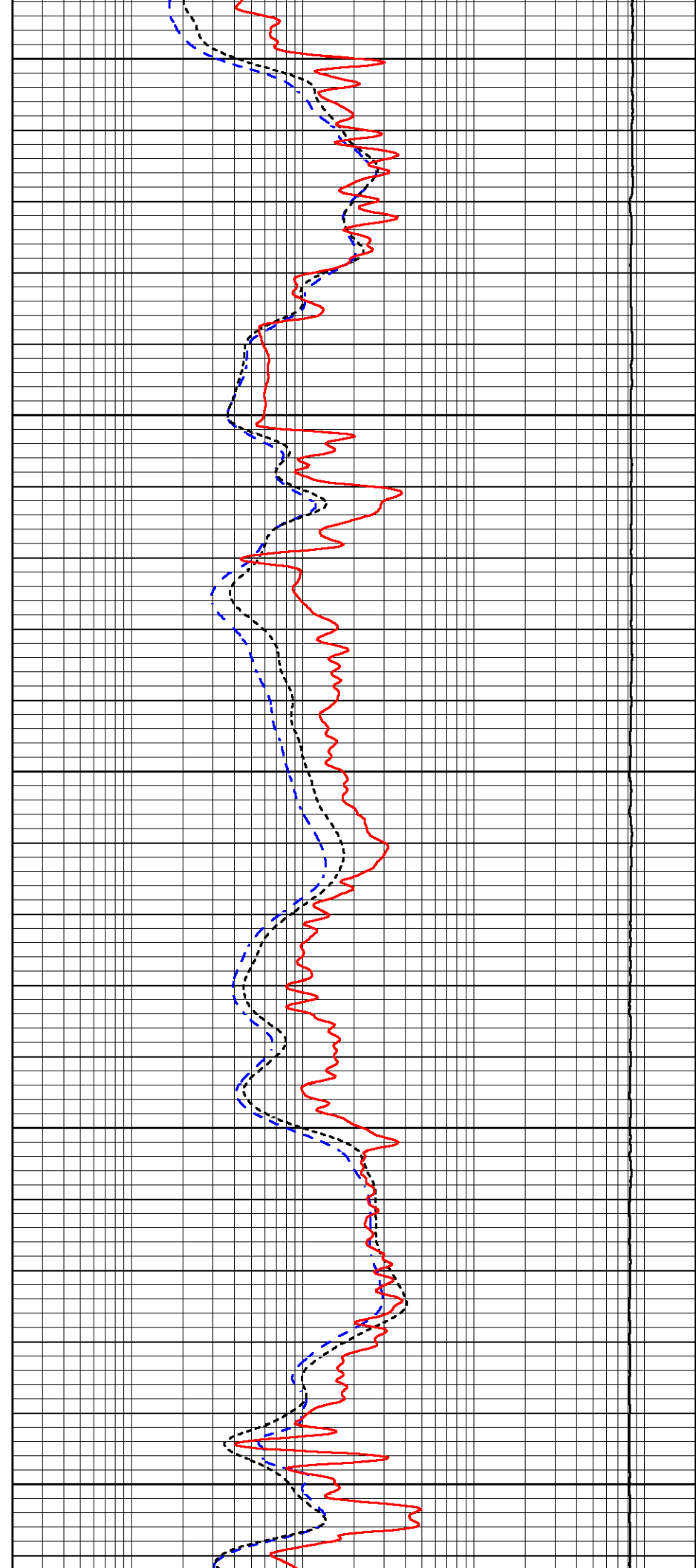
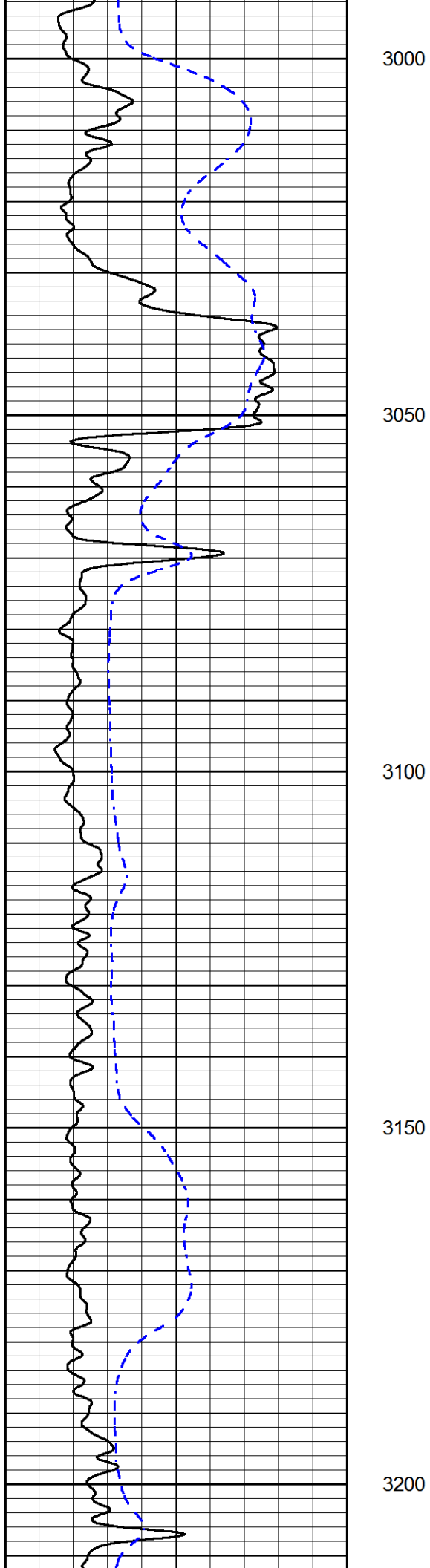
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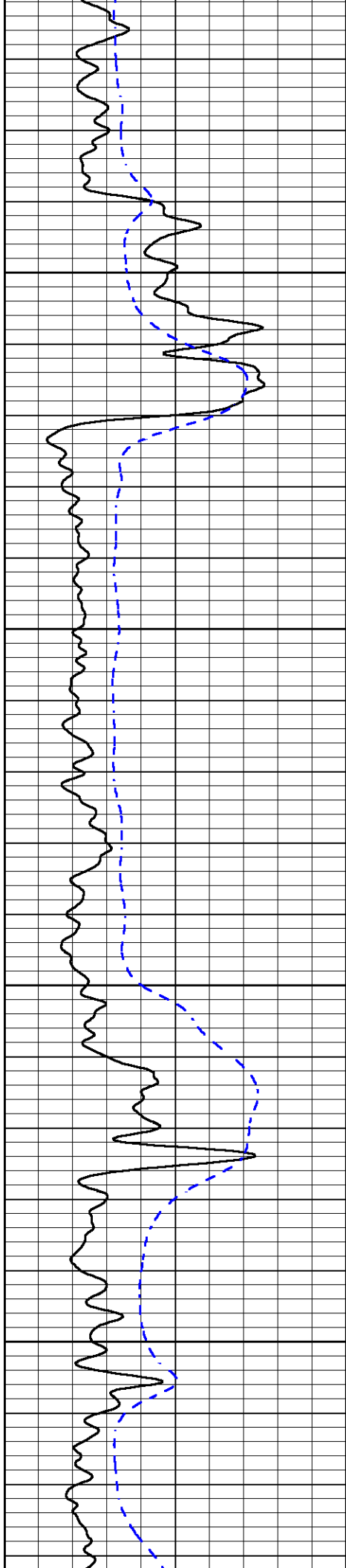
2850

2900

2950





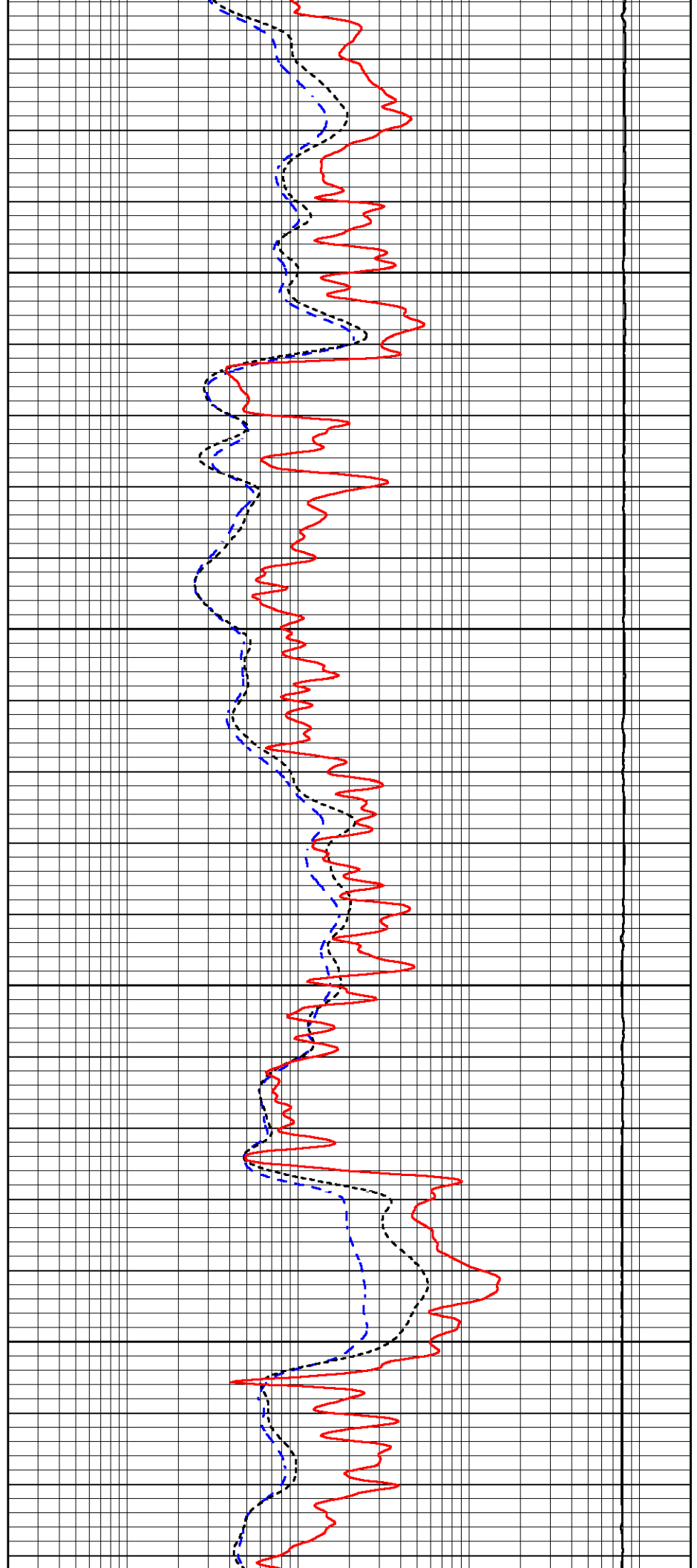


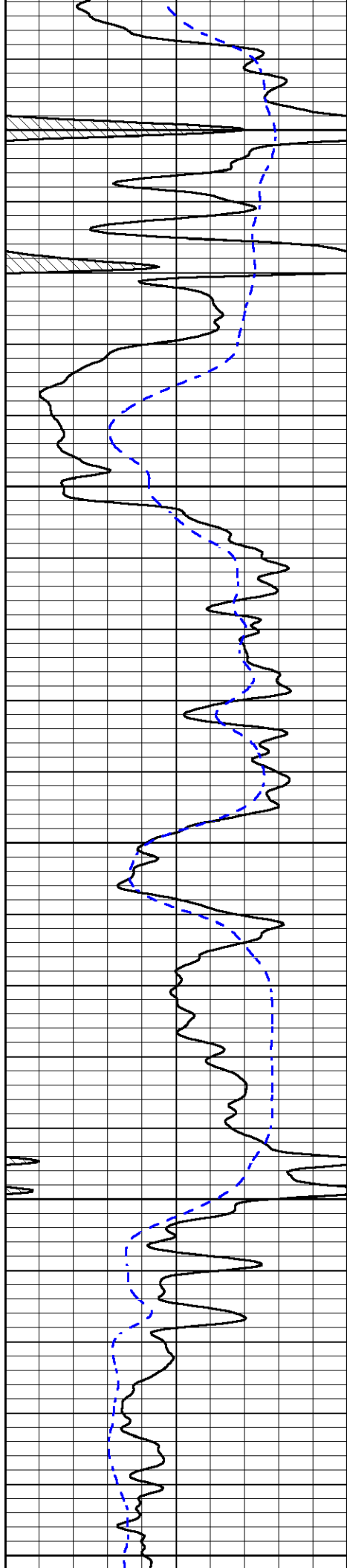
3250

3300

3350

3400





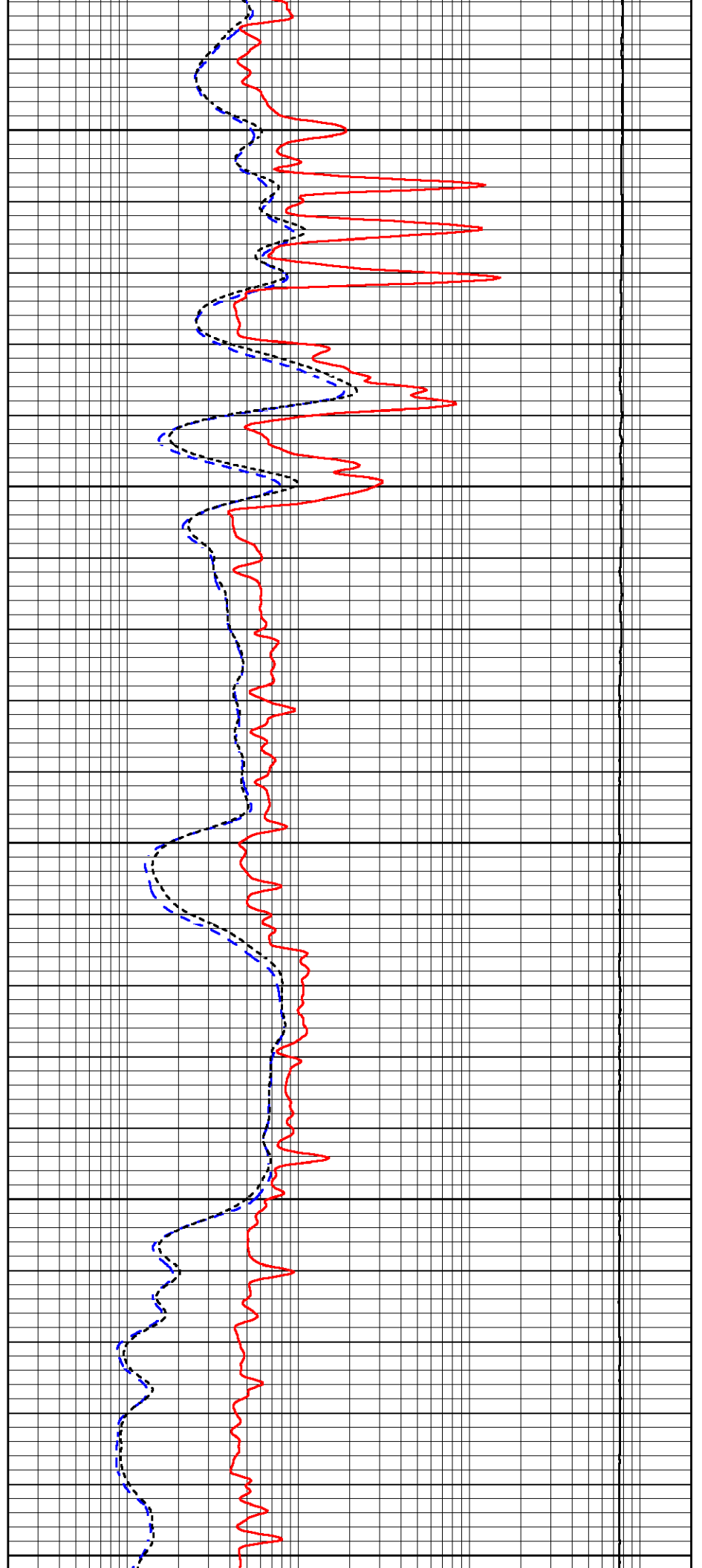
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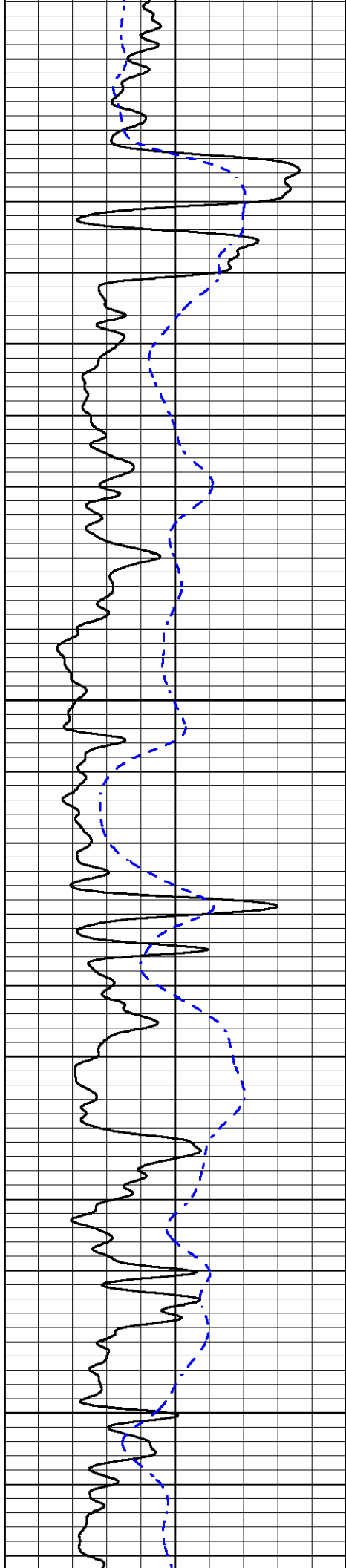
3500

3550

3600

3650



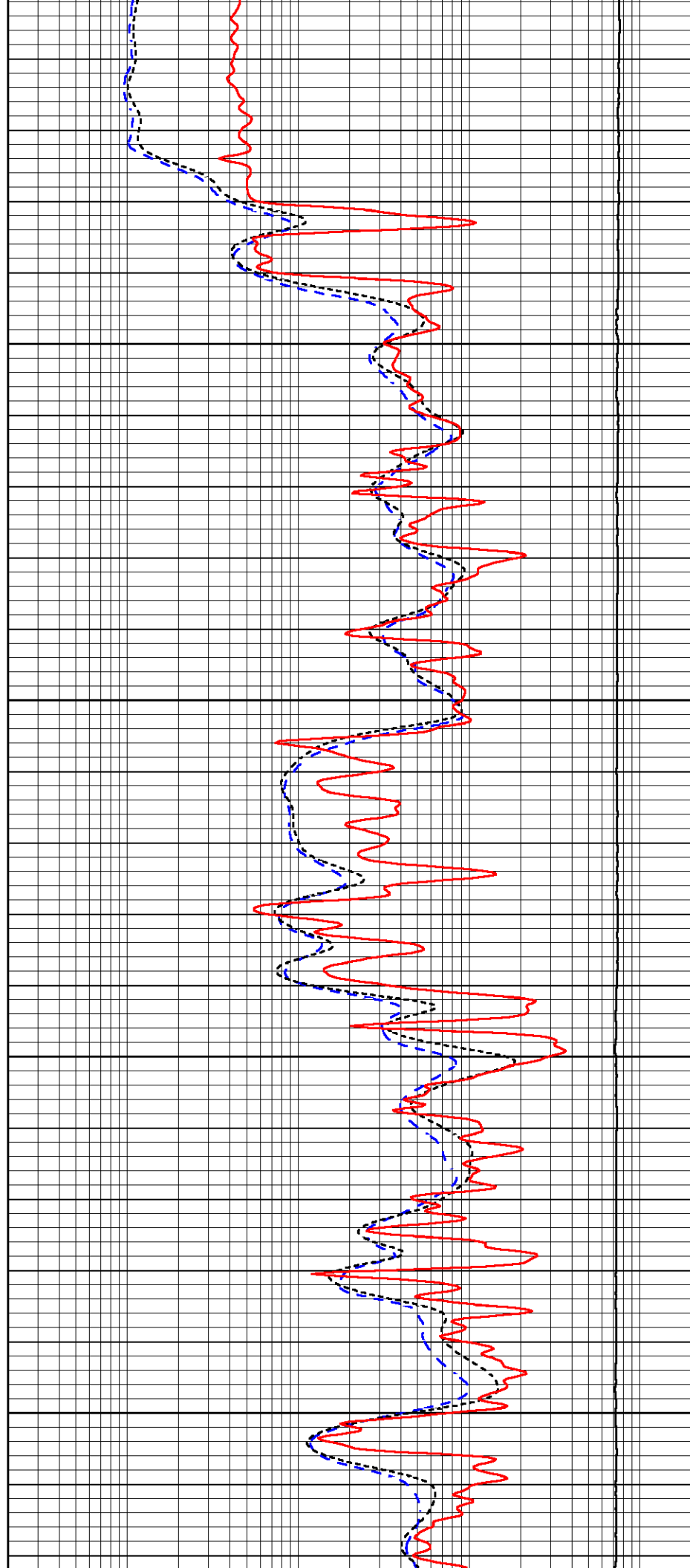


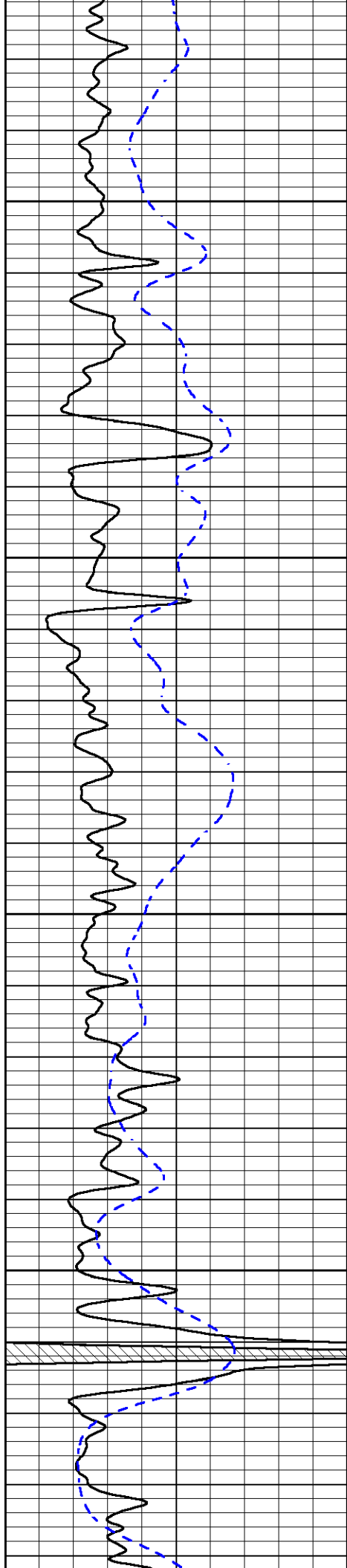
3700

3750

3800

3850



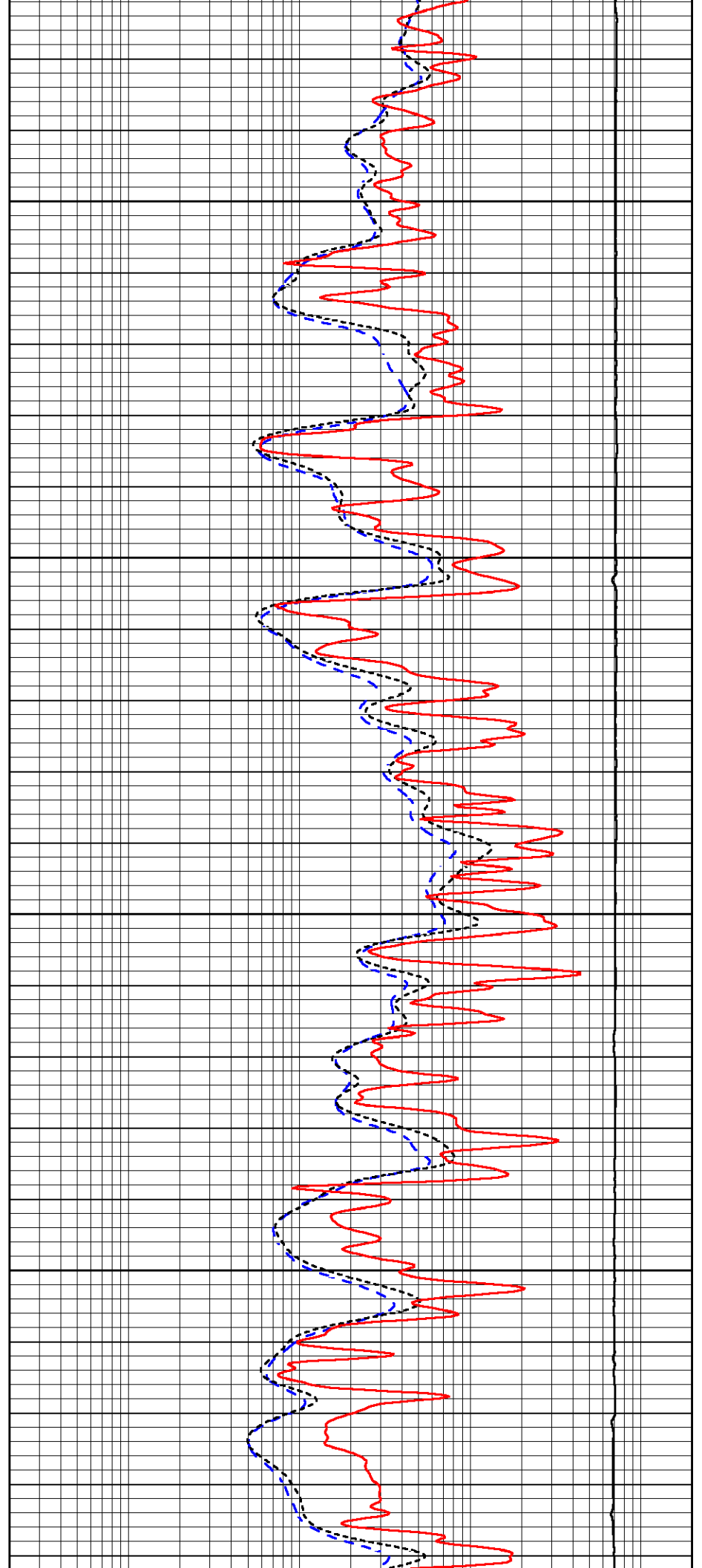


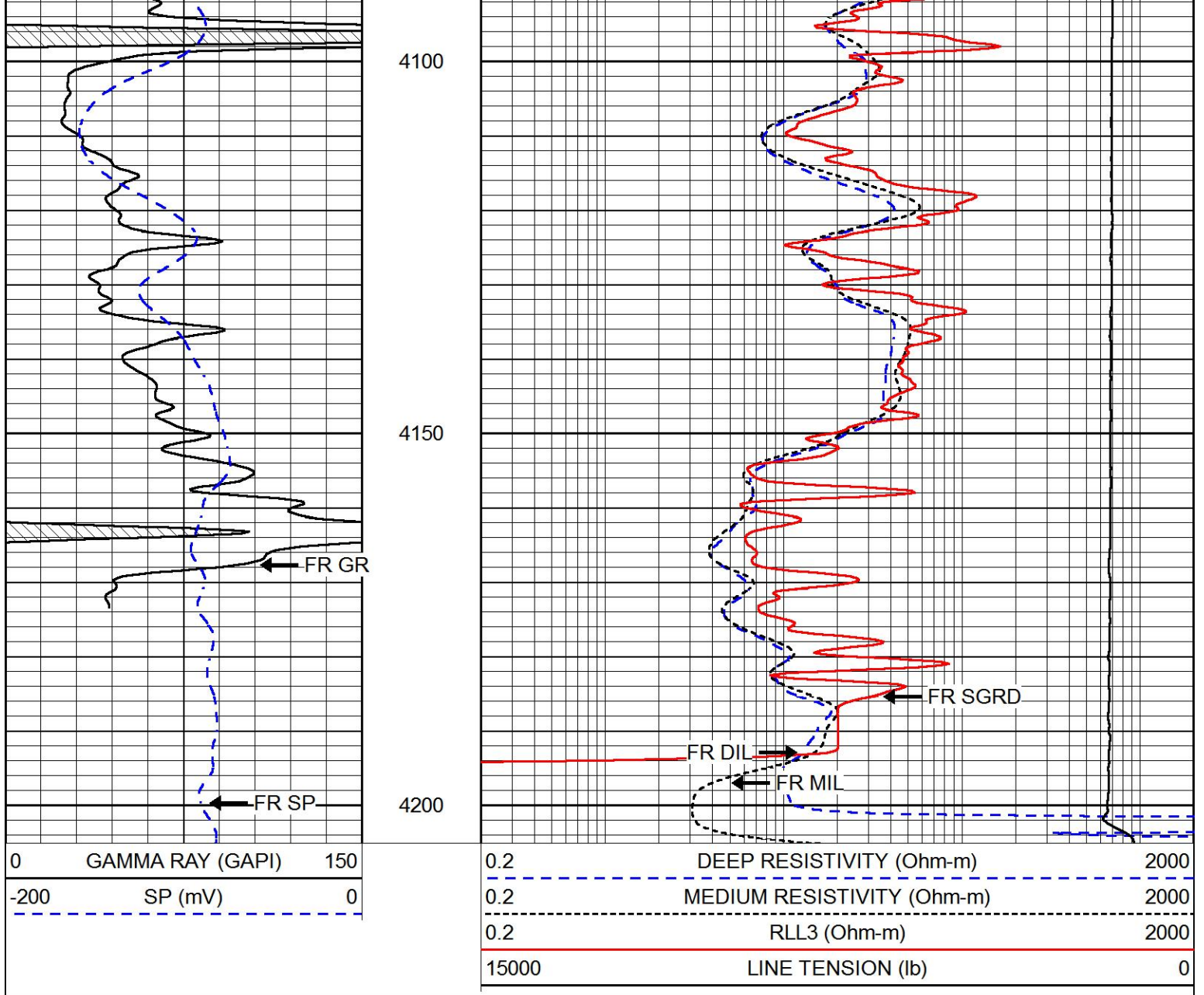
3900

3950

4000

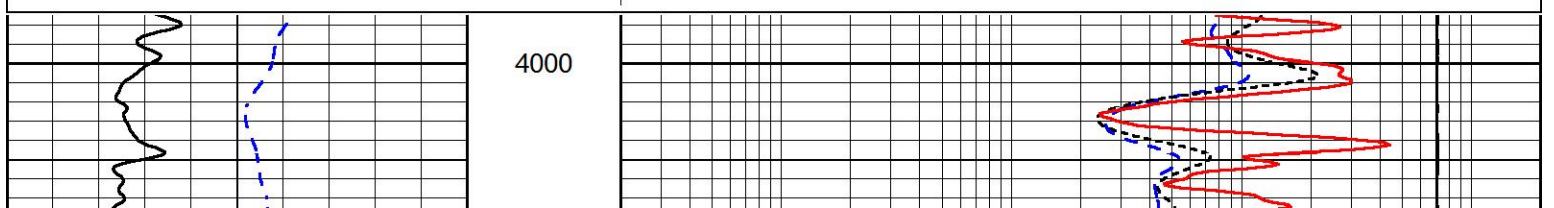
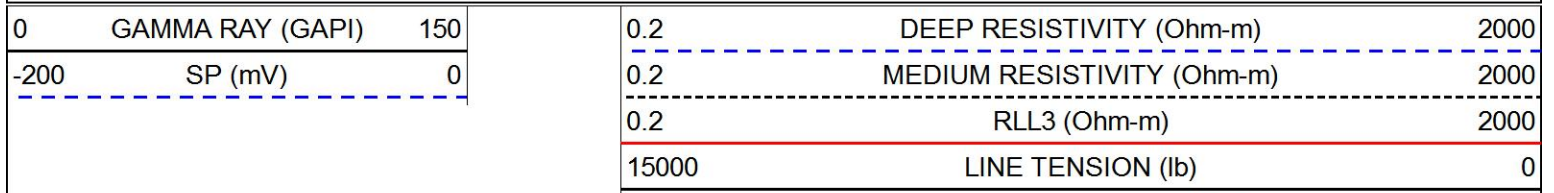
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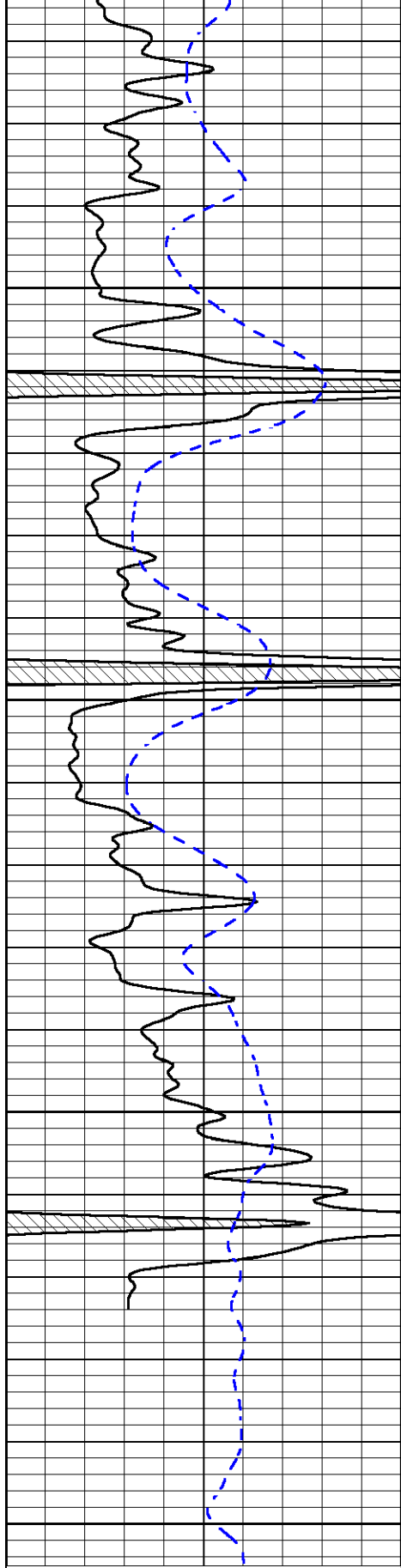




REPEAT SECTION

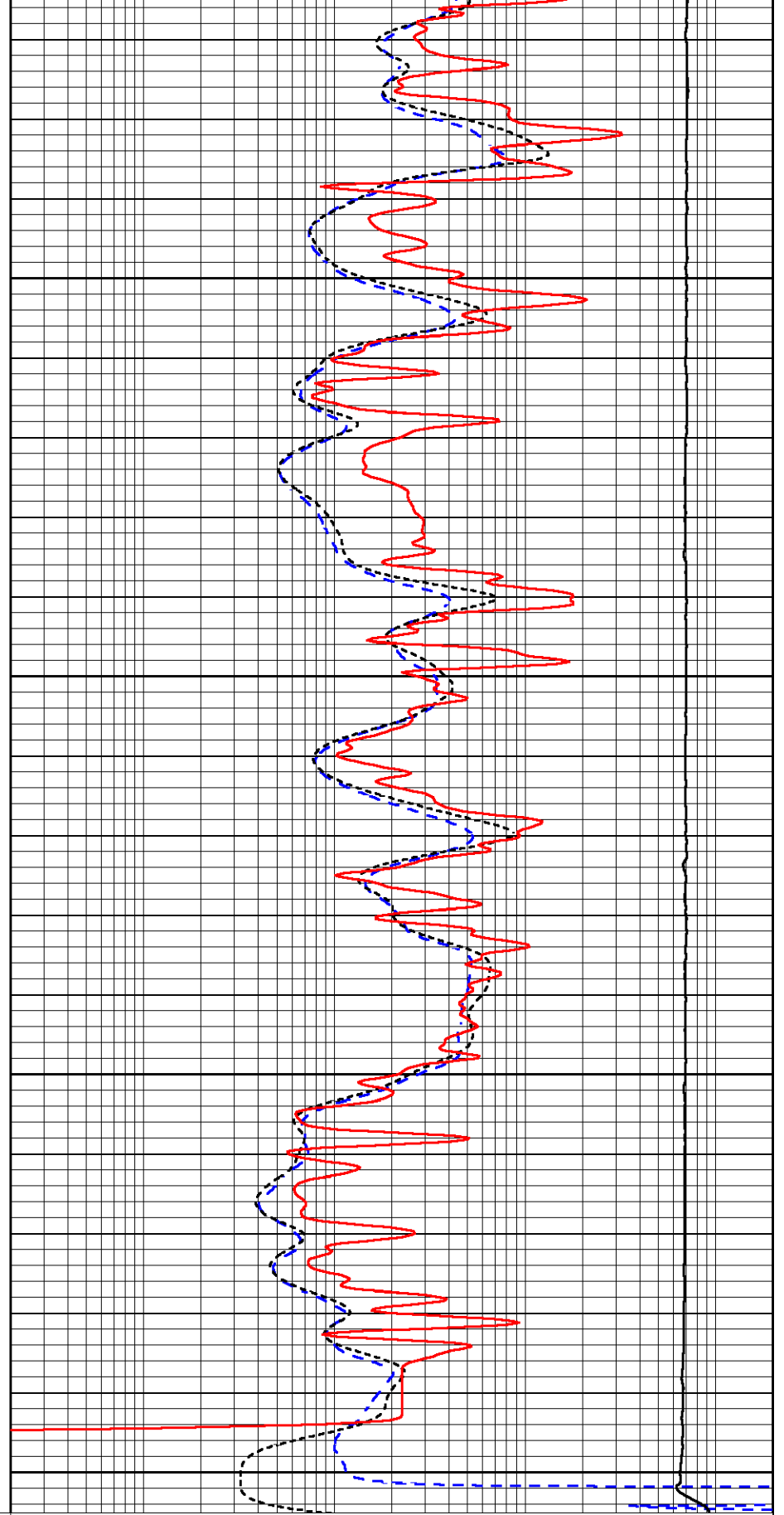
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 Dataset Pathname stack/pass2.1
 Presentation Format dil
 Dataset Creation Wed Apr 25 08:36:16 2018
 Charted by Depth in Feet scaled 1:240





4050
4100
4150
4200

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
15000 LINE TENSION (lb) 0

Database File r&b_goetz_a_1.db
 Dataset Pathname stack/pass3.1
 Dataset Creation Wed Apr 25 09:17:17 2018

Dual Induction Calibration Report

Serial-Model: PSI 978-M&W
 Calibration Performed: Sun Feb 04 11:50:02 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.570	-40.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.400	-37.000

Compensated Density Calibration Report

Serial-Model: 168-986-M&W
 Source / Verifier: /
 Master Calibration Performed: Tue Apr 11 17:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.523		
	Size		Reading		
Small Ring	4.00	in	1.00		
Large Ring	14.00	in	1.20		

Compensated Neutron Calibration Report

Serial Number: tk10-MW
 Tool Model: M&W
 Calibration Performed: Wed Nov 16 11:21:36 2016

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-M&W
 Tool Model: M&W
 Calibration Performed: Tue Apr 11 17:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps



PIONEER

Pioneer Energy Services

Company	R & B OIL & GAS, INC.
Well	GOETZ A #1
Field	SIVEY-GRABS
County	KINGMAN
State	KANSAS



DRILL STEM TEST REPORT

Prepared For: **R&B Oil & Gas**

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

Goetz A #1

18-30S-9W Kingman,KS

Start Date: 2018.04.24 @ 13:14:09

End Date: 2018.04.24 @ 22:04:11

Job Ticket #: 59859 DST #: 1

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

Printed: 2018.04.25 @ 10:09:24

R&B Oil & Gas 18-30S-9W Kingman,KS Goetz A #1 DST # 1 KC 2018.04.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

R&B Oil & Gas

18-30S-9W Kingman, KS

PO Box 195
Attica, KS 67009

Goetz A #1

Job Ticket: 59859

DST#: 1

ATTN: Tim Pierce

Test Start: 2018.04.24 @ 13:14:09

GENERAL INFORMATION:

Formation: **KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:20:11

Time Test Ended: 22:04:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 4088.00 ft (KB) To 4108.00 ft (KB) (TVD)

Reference Elevations: 1705.00 ft (KB)

Total Depth: 4108.00 ft (KB) (TVD)

1700.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8875

Inside

Press@RunDepth: 162.64 psig @ 4089.00 ft (KB)

Capacity: psig

Start Date: 2018.04.24

End Date: 2018.04.24

Last Calib.: 2018.04.24

Start Time: 13:14:10

End Time: 22:04:11

Time On Btm: 2018.04.24 @ 16:19:11

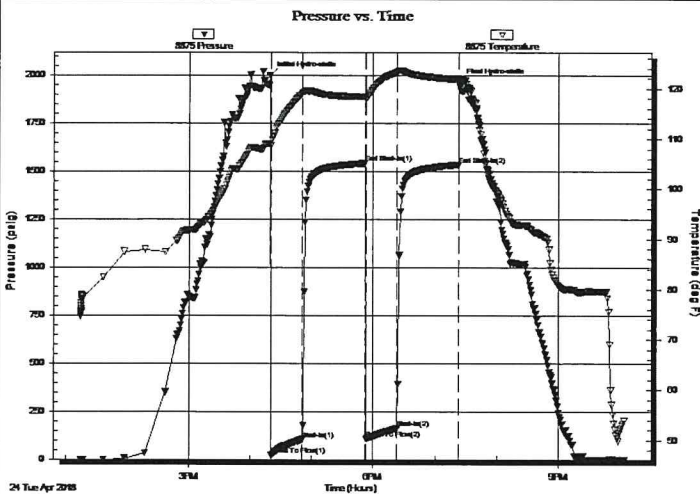
Time Off Btm: 2018.04.24 @ 19:23:41

TEST COMMENT: IF; Fair Blow, BOB in 12 minutes, Built to 24 1/2"

IS: No Blow Back

FF: Fair Blow, BOB in 20 minutes, Built to 17"

FS: No Blow Back



PRESSURE SUMMARY

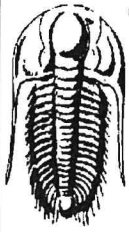
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1997.66	109.06	Initial Hydro-static
1	23.43	108.63	Open To Flow (1)
32	105.66	119.15	Shut-In(1)
94	1542.02	118.36	End Shut-In(1)
94	110.12	117.89	Open To Flow (2)
124	162.64	123.34	Shut-In(2)
184	1534.31	121.88	End Shut-In(2)
185	1964.22	121.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	Water	2.44
63.00	SOMCW -1%O 30%M +69%W	0.88
1.00	Oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

R&B Oil & Gas

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

18-30S-9W Kingman, KS

Goetz A #1

Job Ticket: 59859

DST#: 1

Test Start: 2018.04.24 @ 13:14:09

GENERAL INFORMATION:

Formation: **KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:20:11

Time Test Ended: 22:04:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 4088.00 ft (KB) To 4108.00 ft (KB) (TVD)

Reference Elevations: 1705.00 ft (KB)

Total Depth: 4108.00 ft (KB) (TVD)

1700.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6749

Outside

Press@RunDepth: psig @ 4089.00 ft (KB)

Capacity: psig

Start Date: 2018.04.24

End Date: 2018.04.24

Last Calib.: 2018.04.24

Start Time: 13:14:29

End Time: 22:04:30

Time On Btm:

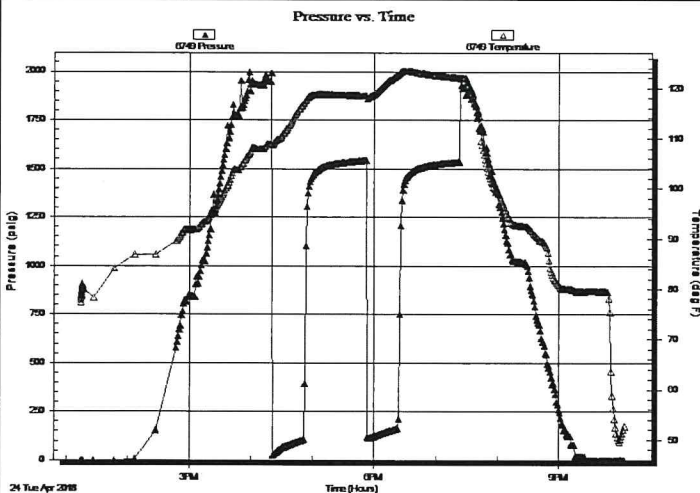
Time Off Btm:

TEST COMMENT: IF; Fair Blow, BOB in 12 minutes, Built to 24 1/2"

ISI: No Blow Back

FF: Fair Blow, BOB in 20 minutes, Built to 17"

FSI: No Blow Back



PRESSURE SUMMARY

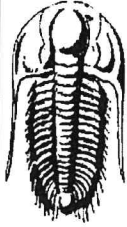
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
252.00	Water	2.44
63.00	SOMCW -1%O 30%M +69%W	0.88
1.00	Oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

R&B Oil & Gas

18-30S-9W Kingman,KS

PO Box 195
Attica, KS 67009

Goetz A #1

Job Ticket: 59859

DST#: 1

ATTN: Tim Pierce

Test Start: 2018.04.24 @ 13:14:09

Tool Information

Drill Pipe:	Length: 3978.00 ft	Diameter: 3.80 inches	Volume: 55.80 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.39 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4088.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4074.00	
Hydraulic tool	5.00			4079.00	
Packer	5.00			4084.00	19.00 Bottom Of Top Packer
Packer	4.00			4088.00	
Stubb	1.00			4089.00	
Recorder	0.00	8875	Inside	4089.00	
Recorder	0.00	6749	Outside	4089.00	
Perforations	16.00			4105.00	
Bullnose	3.00			4108.00	20.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

R&B Oil & Gas

18-30S-9W Kingman, KS

PO Box 195
Attica, KS 67009

Goetz A #1

Job Ticket: 59859

DST#: 1

ATTN: Tim Pierce

Test Start: 2018.04.24 @ 13:14:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	Water	2.442
63.00	SOMCW - 1%O 30%M +69%W	0.884
1.00	Oil	0.014

Total Length: 316.00 ft

Total Volume: 3.340 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .2 @ 45 degrees

Serial #: 8875

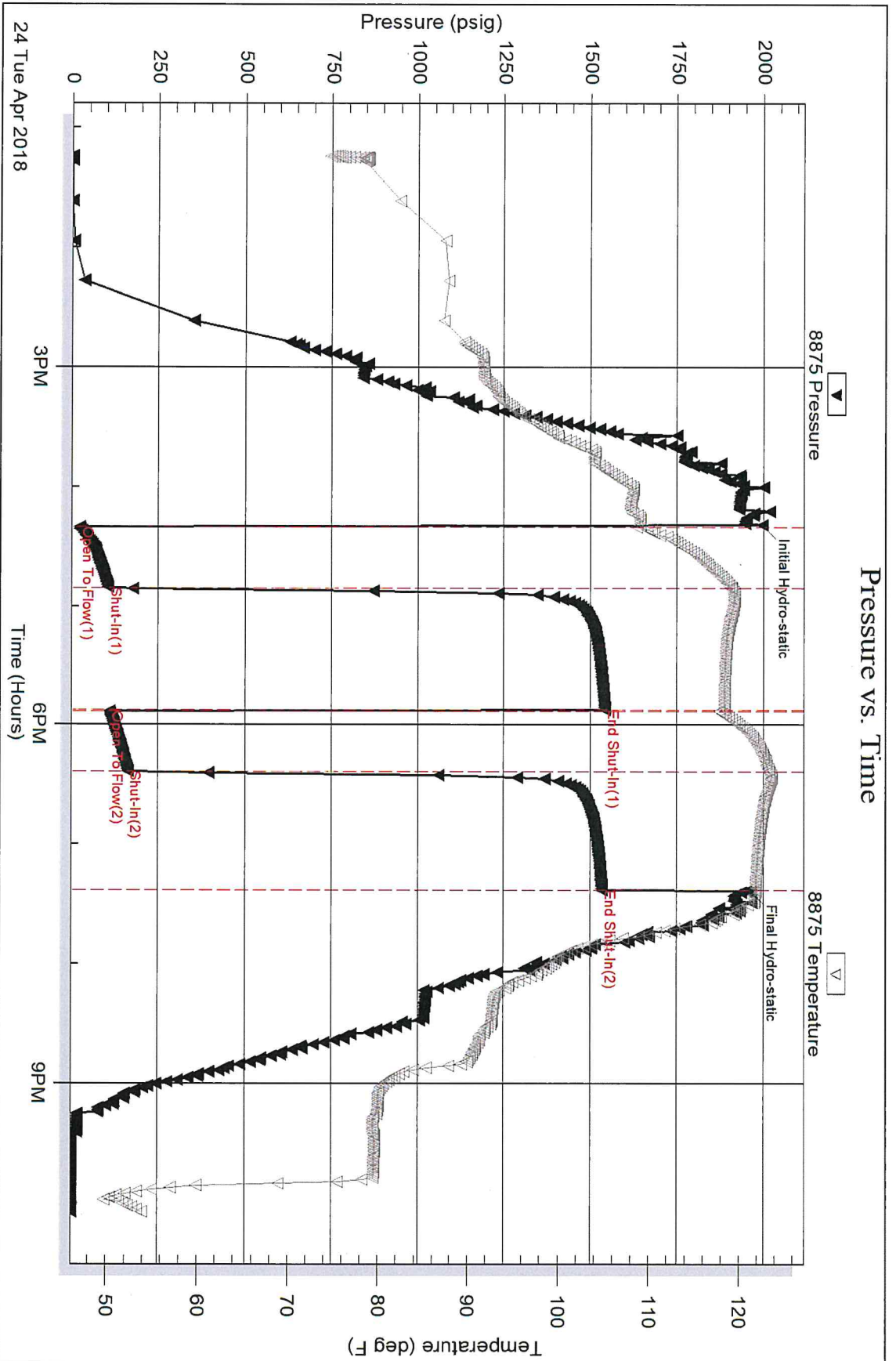
Inside

R&B Oil & Gas

Goetz A #1

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 59859

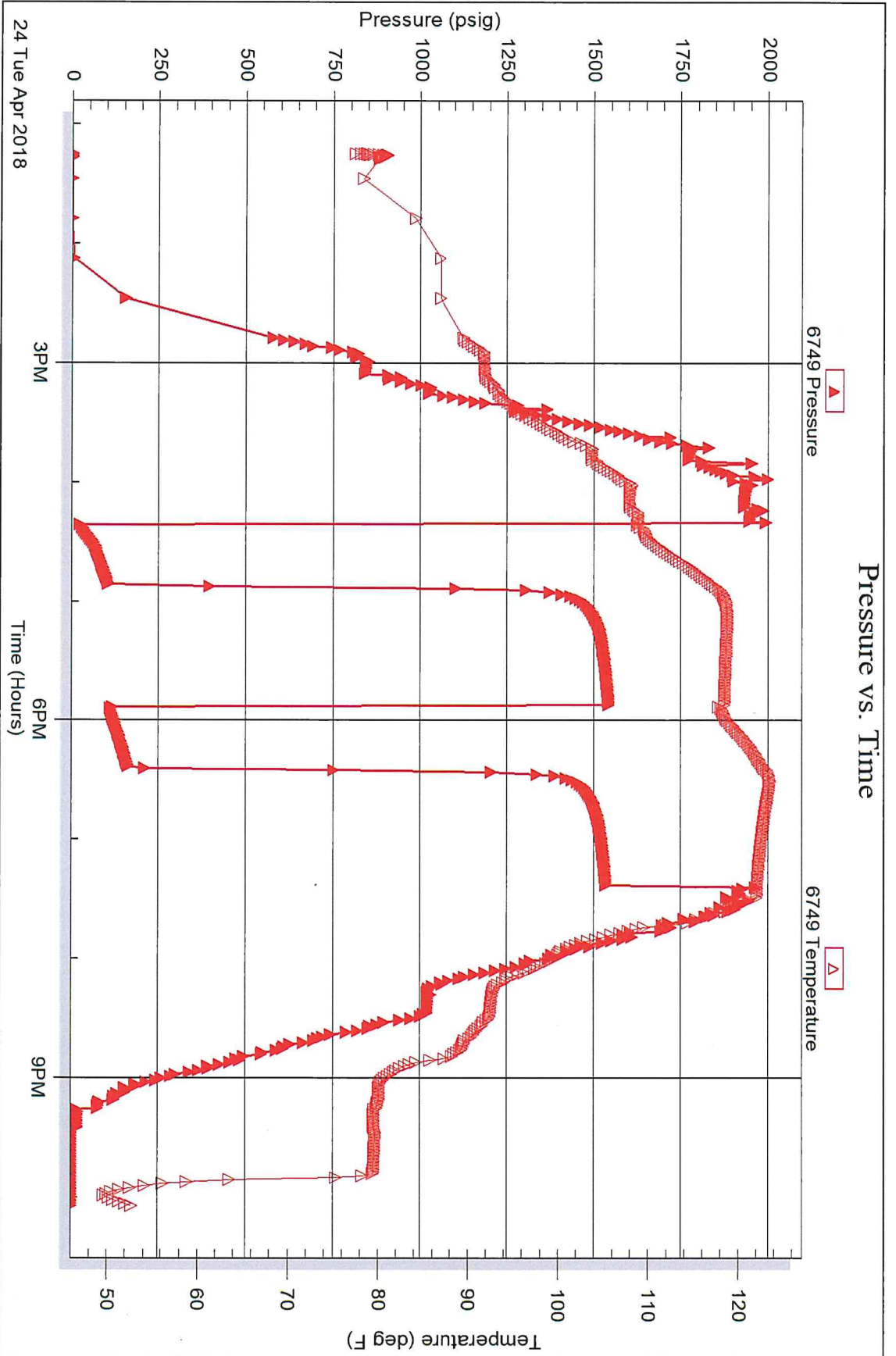
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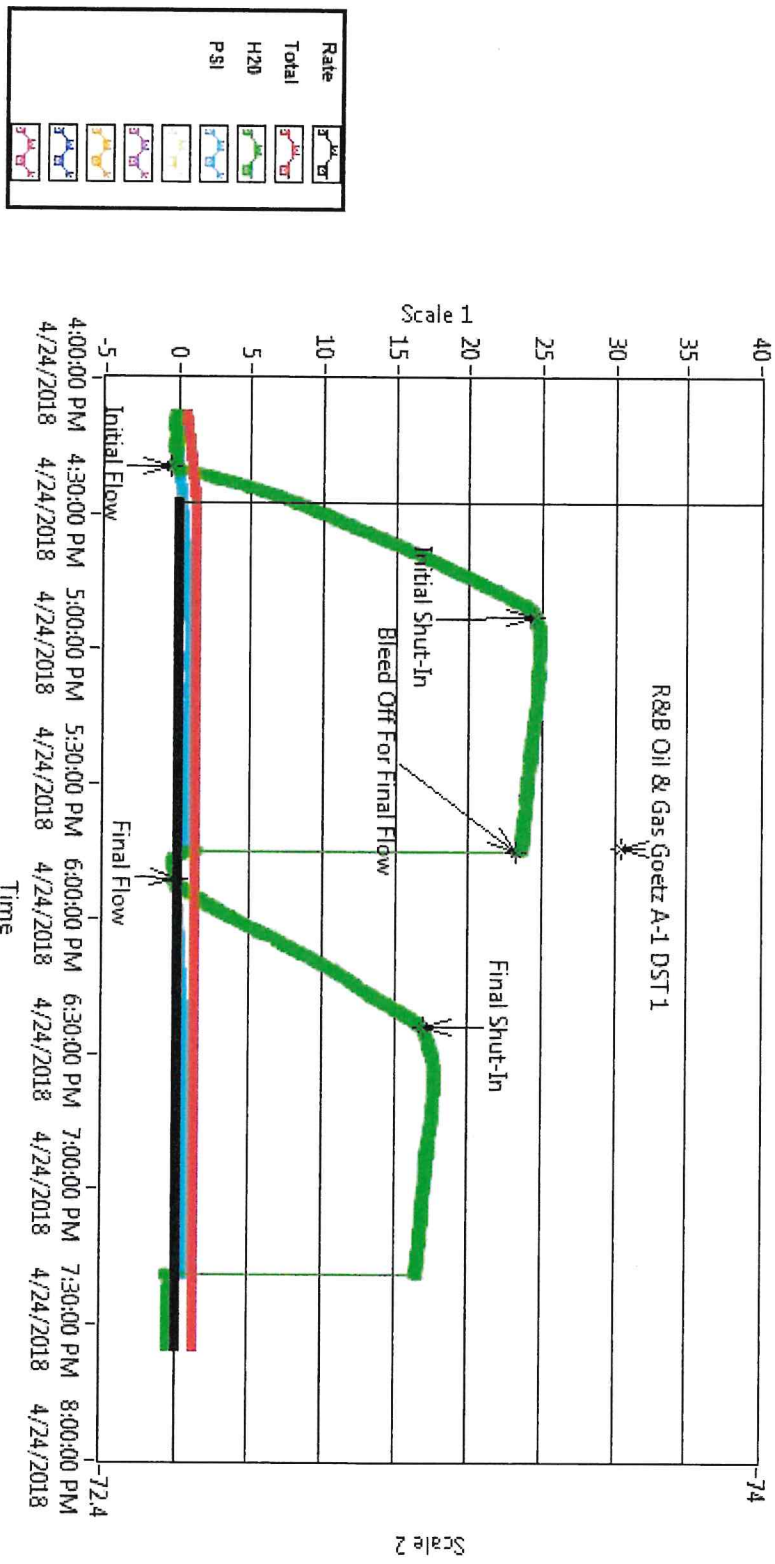
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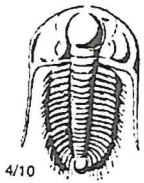
Outside R&B Oil & Gas

Goetz A #1

DST Test Number: 1







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59859

Well Name & No. Goetz A-1 Test No. 1 Date 04/24/18
 Company R+B Oil & Gas Elevation 1705 KB 1700 GL
 Address PO Box 195 Atira, KS 67009
 Co. Rep / Geo. Tim Pierce Rig WW 4
 Location: Sec. 18 Twp. 30S Rge. 9W Co. Kingman State KS

Interval Tested 4088 - 4108 Zone Tested KC
 Anchor Length 20 Drill Pipe Run 3978 Mud Wt. 9.1
 Top Packer Depth 4083 Drill Collars Run 120 Vis 50
 Bottom Packer Depth 4088 Wt. Pipe Run 0 WL 8.8
 Total Depth 4108 Chlorides 5000 ppm System LCM 2

Blow Description IF: Fair Blow, BOB in 12 minutes, Built to 24 1/2 inches
IS: NO BLOW BACK

FF: Fair Blow, BOB in 20 minutes, Built to 17 inches
FS: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Oil</u>				
<u>63</u>	<u>SOMCW</u>				
<u>252</u>	<u>Water</u>	<u>-1</u>	<u>+69</u>	<u>30</u>	
<u>316</u>	<u>BHT 122</u>				

Gravity N/C API RW .2 @ 45 °F Chlorides 6000 ppm

- (A) Initial Hydrostatic 1998
- (B) First Initial Flow 23
- (C) First Final Flow 106
- (D) Initial Shut-In 1542
- (E) Second Initial Flow 110
- (F) Second Final Flow 163
- (G) Final Shut-In 1534
- (H) Final Hydrostatic 1464

- Test 1150
 - Jars
 - Safety Joint
 - Circ Sub
 - Hourly Standby
 - Mileage 90 90
 - Sampler
 - Straddle
 - Shale Packer
 - Extra Packer
 - Extra Recorder
 - Day Standby
 - Accessibility
 - Sub Total 1240
- T-On Location 11:30
 T-Started 13:14
 T-Open 16:20
 T-Pulled 19:22
 T-Out 22:04
 Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1240
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Initial Flow 30
 Initial Shut-In 60

Approved By Tim Pierce

Our Representative _____

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