

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) (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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Blue Goose Drilling Company, Inc.
Well Name	HINEMAN FARMS 1
Doc ID	1424452

All Electric Logs Run

CPI
DIL
DUCP
MEL

SWIFT Services, Inc.

DATE
8-25-18

PAGE NO.

JOB LOG

CUSTOMER: *Blue Goose Dr/g* WELL NO.: *#1* LEASE: *Hineman* JOB TYPE: *Long String* TICKET NO.: *27387*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<i>1230</i>							<i>On location</i>
								<i>csg- 5 1/2 x 14 #</i>
								<i>Rtd - 4660</i>
								<i>set@ - 4506.48</i>
								<i>Centralizers - 110, 2, 4, 6, 109, 9, 58</i>
								<i>Baskets - 110, 57</i>
								<i>Port Collar - 57 @ 2085.08</i>
	<i>1245</i>							<i>Start Running Csg</i>
	<i>1500</i>							<i>Circ on Bottom</i>
	<i>1610</i>	<i>2.5</i>	<i>7</i>			<i>0</i>		<i>Plug rat hole - 30 sks cmr</i>
		<i>2.5</i>	<i>4.5</i>			<i>0</i>		<i>Plug mouse hole - 20 sks cmr</i>
	<i>1615</i>	<i>6</i>	<i>12</i>			<i>300</i>		<i>Pump mudflush - 500 gal</i>
	<i>1620</i>	<i>6</i>	<i>20</i>			<i>300</i>		<i>Pump key spacer</i>
	<i>1625</i>	<i>5</i>	<i>30</i>			<i>300</i>		<i>Pump cmr - 125 sks IA-2 @ 15.5 MG</i>
								<i>Drop plug - Wash P&L</i>
	<i>1640</i>		<i>0</i>			<i>0</i>		<i>Start Disp</i>
	<i>1700</i>		<i>110</i>			<i>750/1400</i>		<i>Land plug - Lift psi - 750</i>
								<i>Land psi 1400</i>
								<i>Release Psi -</i>
								<i>Job Complete</i>
								<i>Thanks</i>
								<i>David, Zach, Kirby</i>



Services, Inc.

CHARGE TO: Blue Goose Drilling Co Inc
ADDRESS
CITY, STATE, ZIP CODE

TICKET 27387

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <i>Ness Ks</i>	# 1	<i>Higeman Farms</i>	<i>Lane</i>	<i>Ks</i>		<i>8-25</i>	
2. <i>Ness City Ks</i>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Southernwind</i>	RIG NAME/NO. <i>Rig # 8</i>	SHIPPED VIA <i>AT</i>	DELIVERED TO <i>location</i>	ORDER NO.	WELL LOCATION
3.	WELL TYPE <i>B1</i>	WELL CATEGORY <i>development</i>	JOB PURPOSE <i>Long String</i>				
4.	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM	QTY.		
575						<i>30</i>			<i>mi</i>		
578					<i>Amp Charge - Long String</i>	<i>1</i>			<i>EA</i>	<i>1300</i>	<i>1300</i>
290					<i>D-Air</i>	<i>2</i>			<i>bar</i>	<i>42</i>	<i>84</i>
221					<i>Liquid Seal</i>	<i>2</i>			<i>bar</i>	<i>25</i>	<i>50</i>
281					<i>Mudflush</i>	<i>500</i>			<i>bar</i>	<i>1</i>	<i>750</i>
402					<i>Centralizer</i>	<i>7</i>			<i>EA</i>	<i>70</i>	<i>490</i>
403					<i>Cement Basket</i>	<i>2</i>			<i>EA</i>	<i>275</i>	<i>550</i>
404					<i>Port Bellar</i>	<i>1</i>			<i>EA</i>	<i>2500</i>	<i>2500</i>
406					<i>Latch Down Plug & Basket</i>	<i>1</i>			<i>EA</i>	<i>250</i>	<i>250</i>
407					<i>Invert Float Shoe w/ Auto Lin</i>	<i>1</i>			<i>EA</i>	<i>325</i>	<i>325</i>
419					<i>Rotating Head Rental</i>	<i>1</i>			<i>EA</i>	<i>200</i>	<i>200</i>

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

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
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	

CUSTOMER DID NOT WISH TO RESPOND

TOTAL *11594.30*

SWIFT OPERATOR *David Edgeron* APPROVAL _____

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

Thank You!

SWIFT



Services, Inc.

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



Invoice

DATE	INVOICE #
8/25/2018	27387

BILL TO
Blue Goose Drilling Co. Inc. PO Box 1413 Great Bend, KS 67530-1413

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Hineman Far...	Lane	Southwind Rig #8	Oil	Development	Long String	David E.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				30	Miles	5.00	150.00
578D-L	Pump Charge - Long String				1	Job	1,300.00	1,300.00
290	D-Air				2	Gallon(s)	42.00	84.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
402-5	5 1/2" Centralizer				7	Each	70.00	490.00T
403-5	5 1/2" Cement Basket				2	Each	275.00	550.00T
404-5	5 1/2" Port Collar				1	Each	2,500.00	2,500.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	325.00	325.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				175	Sacks	13.00	2,275.00T
284	Calseal				8	Sack(s)	35.00	280.00T
283	Salt				950	Lb(s)	0.20	190.00T
292	Halad 322				100	Lb(s)	8.00	800.00T
276	Flocele				44	Lb(s)	2.50	110.00T
581D	Service Charge Cement				175	Sacks	1.75	306.25
582D	Minimum Drayage Charge				1	Each	250.00	250.00
	Subtotal							10,860.25
	Sales Tax Lane County						7.50%	664.05
We Appreciate Your Business!							Total	\$11,524.30

JOB LOG

SWIFT Services, Inc.

DATE 16 AUG 18 PAGE NO. 1
TICKET NO. 31630

CUSTOMER Bluebase WELL NO. #1 LEASE Hineman JOB TYPE

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								165 sk Standard cement 2% gel 3% CC 8 5/8" x 23# joints 262.6' TD = 262
	1230							onloc TRR 114
	1250							Start 8 5/8" x 23# casing in well
	1400							circulate
	1410	3 1/2	40			200		mix STD 2p 3% 165# e 14.7 ppw
	1425							Displace flush w/ H2O
								→ cement to surface
	1430		15 1/4					Kickout shut in 8 5/8" wash truck Back up Job complete Thub blain, I hat & KAAC



CHARGE TO: Blue Goose
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 031630

SWIFT OPERATOR: ASCP

PAGE 1 OF 1

SERVICE LOCATIONS: 1000 City KS WELL/PROJECT NO. #1 LEASE Hireman COUNTY/PARISH Lone STATE KS CITY Bellevue DATE 16 Aug 18 OWNER
 TICKET TYPE SERVICE SALES CONTRACTOR SUTHERLAND RIG NAME/NO. B SHIPPED WET DELIVERED TO location ORDER NO.
 WELL TYPE 0.1 WELL CATEGORY Developments JOB PURPOSE concrete surface pipe WELL PERMIT NO.
 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					MILEAGE	25	mi			5.00	125.00
5765					Pump Charge	1	ea			875.00	875.00
325					Standard cement	165	sb			13.00	2145.00
279					Bentonite gel	3	dk			30.00	90.00
278					Calcium Chloride	7	ok			40.00	280.00
581					Splice charge	165	ck			1.75	288.75
582					Drayage (mil)	16160		1	ea	250.00	250.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X [Signature]
 DATE SIGNED _____ TIME SIGNED _____
 A.M. P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE
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			

PAGE TOTAL 4053.75
 TOTAL 4942.38

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 APPROVAL [Signature]
 Thank You!

SWIFT



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



Invoice

DATE	INVOICE #
8/16/2018	31630

BILL TO
Blue Goose Drilling Co. Inc. PO Box 1413 Great Bend, KS 67530-1413

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Hineman	Lane	Southwind Rig #8	Oil	Development	Cement Surface ...	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				25	Miles	5.00	125.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)				1	Job	875.00	875.00
325	Standard Cement				165	Sacks	13.00	2,145.00T
279	Bentonite Gel				3	Sack(s)	30.00	90.00T
278	Calcium Chloride				7	Sack(s)	40.00	280.00T
581D	Service Charge Cement				165	Sacks	1.75	288.75
582D	Minimum Drayage Charge				1	Each	250.00	250.00
	Subtotal							4,053.75
	Sales Tax Lane County						7.50%	188.63
We Appreciate Your Business!							Total	\$4,242.38

JOB LOG

SWIFT Services, Inc.

DATE 30 AUG 18 PAGE NO. 1
TICKET NO. 31640

CUSTOMER Blue Goose

WELL NO. #1

LEASE Fireman Farms

JOB TYPE

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								225 sk SMD cement w/ 1/4" Flocele + 5 1/2" PORT COLLAR - 2085'
	1320							on loc TRK 114
	1335					1000	1000	test to 1000 psi - held open port collar
	1355							inj rate 3 @ 350 psi
	1359	3 3	5			350 350		mix SMD cement @ 11.2 ppg circ fluid to surface
	1425	3	48			500		→ cement to surface ← (165 sk mixed 15 top bit)
	1442		7					Displace w/ 7 gal H ₂ O open port collar
						1000	1000	test to 1000 psi - held
								Run 5 joints
	1450		20					Reverse hole clean - 2 cement plugs -
	1500							wash up
	1530							back up job complete



CHARGE TO: Blue Goose
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET **031640**
 PAGE 1 OF 1

SERVICE LOCATIONS
 1. Area City KS WELL/PROJECT NO. #1 LEASE Hansen Farms COUNTY/PARISH Lane STATE KS CITY Alamogordo DATE 30 APR 18 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR WELL CATEGORY Development RIG NAME/NO. PRITZER SHIPPED YES DELIVERED TO Location ORDER NO.
 3. WELL TYPE Oil WELL PURPOSE Development CONCRETE PUMP COLLAR WELL PERMIT NO. WELL LOCATION
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	TRAFFIC	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF									
575					MILEAGE TRAFFIC		30	mi				5.00	150.00
576D					Pump Charge		1	ea		5 1/2	in	1300.00	1300.00
336					SMD cement		165	sk				16.25	2681.25
276					Flare		50	lb				2.50	125.00
290					D-air		1	gal				42.00	42.00
581					service charge		225	sk				1.75	393.75
583					Drayage		2230	lb		335.87	TM	0.85	285.47
104					Port collar opening tool Rental		5 1/2	in		1	ea	200.00	200.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X Paul M. [Signature] DATE SIGNED 4/30 TIME SIGNED A.M. P.M.

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 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 Paul M. APPROVAL [Signature]

PAGE TOTAL 5177.47 TOTAL 5177.47

Thank You!

SWIFT



Services, Inc.

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



Invoice

DATE	INVOICE #
8/30/2018	31640

BILL TO
Blue Goose Drilling Co. Inc. PO Box 1413 Great Bend, KS 67530-1413

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Hineman Far...	Lane	Fritzler Trucking	Oil	Development	Cement Port Collar	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				30	Miles	5.00	150.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars				1	Job	1,300.00	1,300.00
330	Swift Multi-Density Standard (MIDCON II)				165	Sacks	16.25	2,681.25T
276	Flocele				50	Lb(s)	2.50	125.00T
290	D-Air				1	Gallon(s)	42.00	42.00T
581D	Service Charge Cement				225	Sacks	1.75	393.75
583D	Drayage				335.85	Ton Miles	0.85	285.47
104	Port Collar Tool Rental				1	Each	200.00	200.00T
	Subtotal							5,177.47
	Sales Tax Lane County						7.50%	228.62
We Appreciate Your Business!							Total	\$5,406.09



DRILL STEM TEST REPORT

Prepared For: **Blue Goose Drilling Co Inc**

PO Box 1413
Great Bend KS 67530

ATTN: Ken Wallace

Hineman #1

16-18s-27w Lane,KS

Start Date: 2018.08.21 @ 22:27:43

End Date: 2018.08.22 @ 11:11:28

Job Ticket #: 57896 DST #: 1

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

Printed: 2018.08.28 @ 09:16:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Blue Goose Drilling Co Inc

16-18s-27w Lane, KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 57896

DST#: 1

ATTN: Ken Wallace

Test Start: 2018.08.21 @ 22:27:43

GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:13:43

Time Test Ended: 11:11:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: **4273.00 ft (KB) To 4313.00 ft (KB) (TVD)**

Reference Elevations: 2701.00 ft (KB)

Total Depth: 4313.00 ft (KB) (TVD)

2691.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8931

Inside

Press@RunDepth: 111.24 psig @ 4274.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.21

End Date:

2018.08.22

Last Calib.:

2018.08.22

Start Time: 22:27:48

End Time:

11:11:28

Time On Btm:

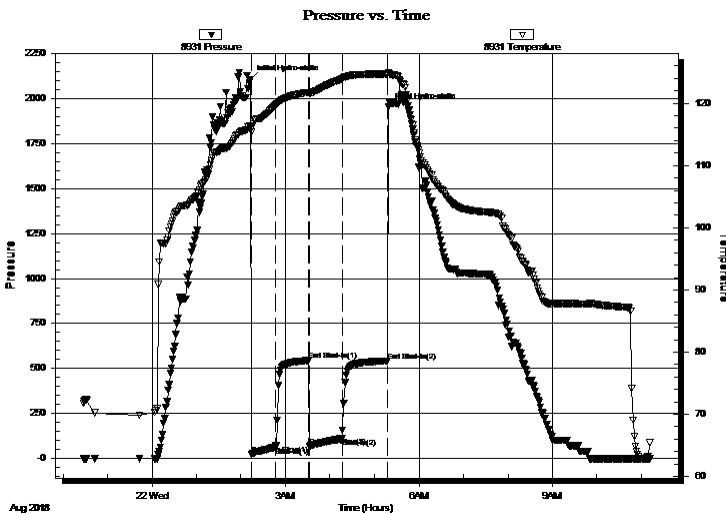
2018.08.22 @ 02:12:43

Time Off Btm:

2018.08.22 @ 05:18:43

TEST COMMENT: IF: Strong blow . B.O.B. in 17 mins.
IS: Weak blow . Built to 3/4". Decreased to 1/4".
FF: Strong blow . B.O.B. in 20 mins. Built to 20".
FS: Weak blow . Built to 3 3/4". Decreasing to 2 1/2".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2105.18	116.42	Initial Hydro-static
1	20.46	115.34	Open To Flow (1)
35	63.25	119.69	Shut-In(1)
79	543.19	121.75	End Shut-In(1)
80	65.86	121.64	Open To Flow (2)
124	111.24	123.93	Shut-In(2)
185	538.95	124.68	End Shut-In(2)
186	1952.27	124.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW slight oil 17% m 83% w	0.84
60.00	MCGO 85% m 10% g 5% o	0.84
20.00	OMCWG 60% o 25% m 10% w 5% g	0.28
100.00	O 100% o	1.40
0.00	480' GIP 100% g	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Blue Goose Drilling Co Inc

16-18s-27w Lane,KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 57896

DST#: 1

ATTN: Ken Wallace

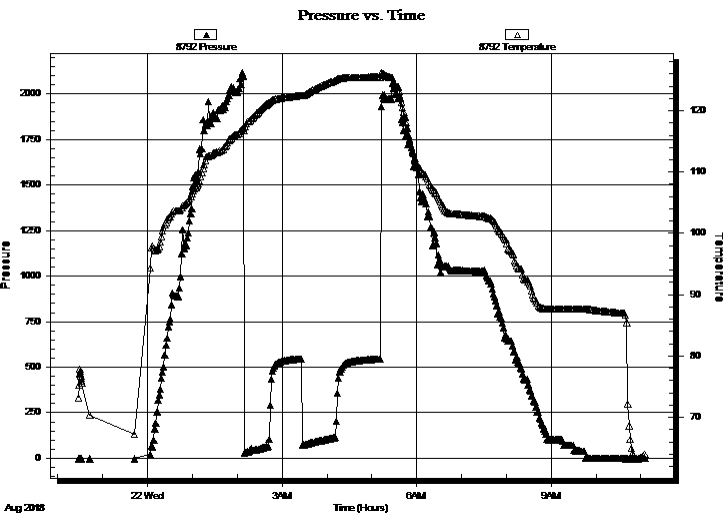
Test Start: 2018.08.21 @ 22:27:43

GENERAL INFORMATION:

Formation: **LKC L**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:13:43 Tester: Matt Smith
 Time Test Ended: 11:11:28 Unit No: 68
 Interval: **4273.00 ft (KB) To 4313.00 ft (KB) (TVD)** Reference Elevations: 2701.00 ft (KB)
 Total Depth: 4313.00 ft (KB) (TVD) 2691.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8792 Outside
 Press@RunDepth: psig @ 4274.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.08.21 End Date: 2018.08.22 Last Calib.: 2018.08.22
 Start Time: 22:27:49 End Time: 11:06:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 17 mins.
 IS: Weak blow . Built to 3/4". Decreased to 1/4".
 FF: Strong blow . B.O.B. in 20 mins. Built to 20".
 FS: Weak blow . Built to 3 3/4". Decreasing to 2 1/2".



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW slight oil 17% m 83% w	0.84
60.00	MCGO 85% m 10% g 5% o	0.84
20.00	OMCVG 60% o 25% m 10% w 5% g	0.28
100.00	O 100% o	1.40
0.00	480' GIP 100% g	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blue Goose Drilling Co Inc

16-18s-27w Lane,KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 57896

DST#: 1

ATTN: Ken Wallace

Test Start: 2018.08.21 @ 22:27:43

Tool Information

Drill Pipe:	Length: 4258.00 ft	Diameter: 3.80 inches	Volume: 59.73 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: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 59.73 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4273.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4246.00	
Shut In Tool	5.00			4251.00	
Hydraulic tool	5.00			4256.00	
Jars	5.00			4261.00	
Safety Joint	3.00			4264.00	
Packer	4.00			4268.00	28.00 Bottom Of Top Packer
Packer	5.00			4273.00	
Stubb	1.00			4274.00	
Recorder	0.00	8931	Inside	4274.00	
Recorder	0.00	8792	Outside	4274.00	
Perforations	2.00			4276.00	
Change Over Sub	1.00			4277.00	
Blank Spacing	31.00			4308.00	
Change Over Sub	1.00			4309.00	
Perforations	1.00			4310.00	
Bullnose	3.00			4313.00	40.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blue Goose Drilling Co Inc

16-18s-27w Lane,KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 57896

DST#: 1

ATTN: Ken Wallace

Test Start: 2018.08.21 @ 22:27:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

85000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: 2.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MCW slight oil 17%m 83%w	0.842
60.00	MCGO 85%m 10%g 5%o	0.842
20.00	OMCWG 60%o 25%m 10%w 5%g	0.281
100.00	O 100%o	1.403
0.00	480' GIP 100%g	0.000

Total Length: 140.00 ft Total Volume: 1.965 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: RW 61 degrees @ .12 = 85000

Gravity 36 @ 72 degrees

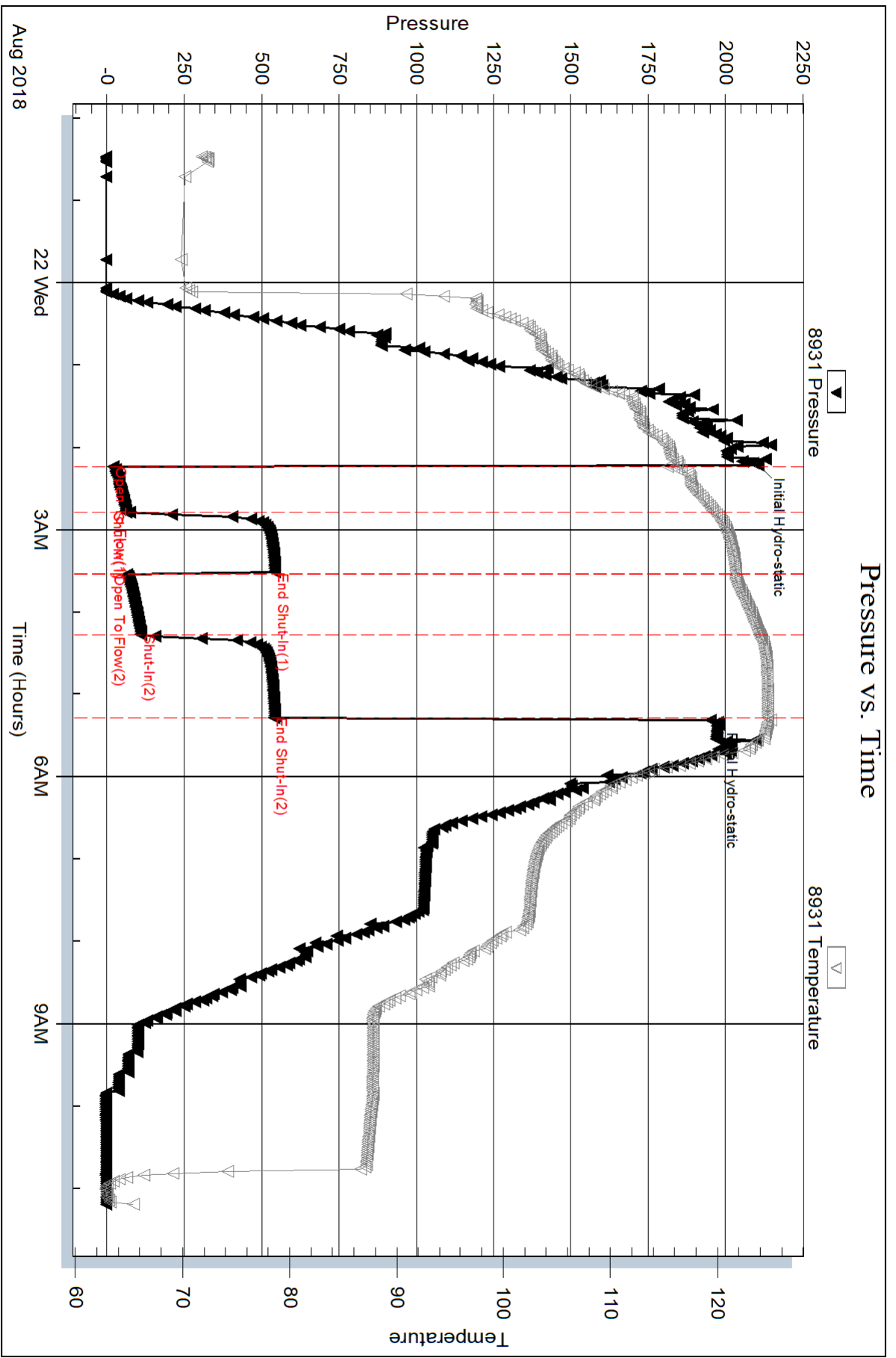
Serial #: 8931

Inside

Blue Goose Drilling Co Inc

Hineman #1

DST Test Number: 1

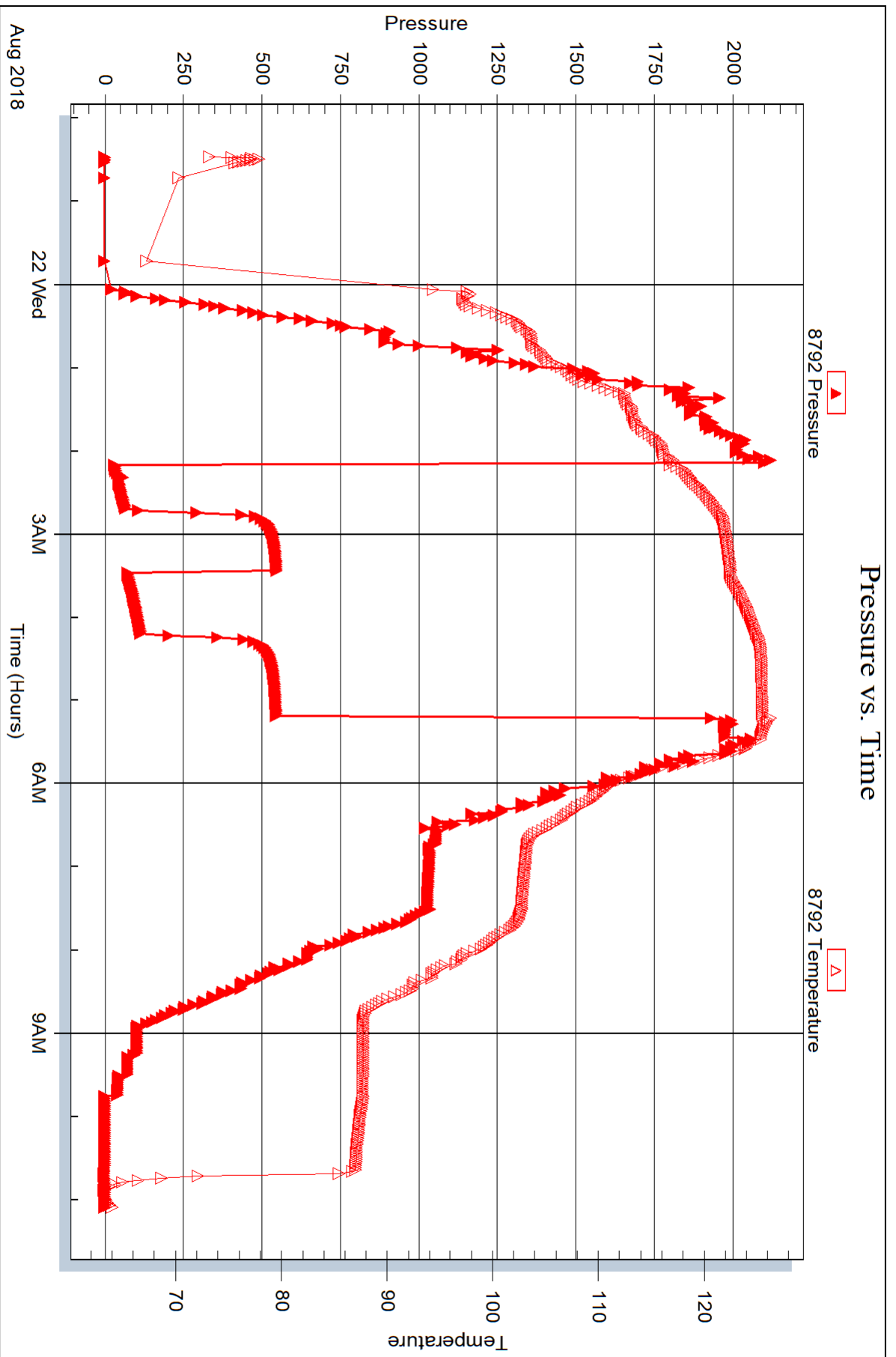


Serial #: 8792

Outside Blue Goose Drilling Co Inc

Hineman #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Blue Goose Drilling Co Inc**

PO Box 1413
Great Bend KS 67530

ATTN: Ken Wallace

Hineman #1

16-18s-27w Lane,KS

Start Date: 2018.08.23 @ 06:12:24

End Date: 2018.08.23 @ 15:06:24

Job Ticket #: 57897 DST #: 2

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

Printed: 2018.08.28 @ 09:16:01

Blue Goose Drilling Co Inc

16-18s-27w Lane,KS

Hineman #1

DST # 2

Marmaton - Pawnee

2018.08.23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Blue Goose Drilling Co Inc

16-18s-27w Lane, KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 57897

DST#: 2

ATTN: Ken Wallace

Test Start: 2018.08.23 @ 06:12:24

GENERAL INFORMATION:

Formation: **Marmaton - Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:10:24

Time Test Ended: 15:06:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: **4380.00 ft (KB) To 4464.00 ft (KB) (TVD)**

Reference Elevations: 2701.00 ft (KB)

Total Depth: 4313.00 ft (KB) (TVD)

2691.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8931

Inside

Press@RunDepth: 209.04 psig @ 4381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.23

End Date:

2018.08.23

Last Calib.:

2018.08.23

Start Time:

06:12:29

End Time:

15:06:24

Time On Btm:

2018.08.23 @ 09:08:54

Time Off Btm:

2018.08.23 @ 12:05:54

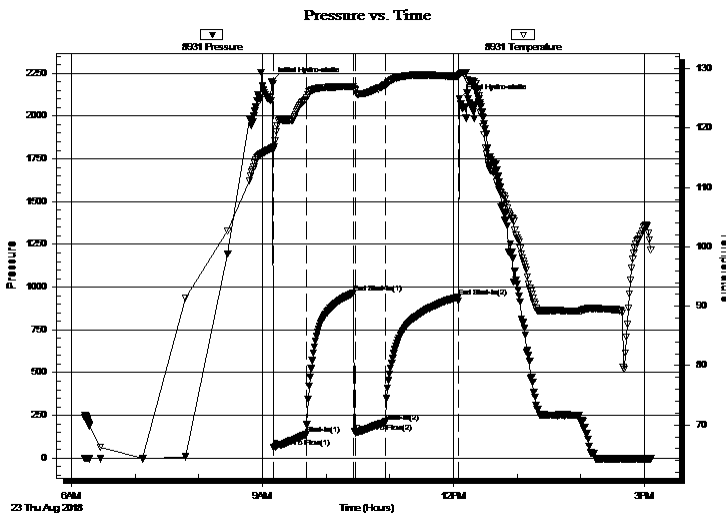
TEST COMMENT: IF: Strong blow . B.O.B. in 2 mins. Built to 139"

IS: Fair Blow . Built to 10"

FF: Strong blow . B.O.B. in 9 mins. 129"

FS: Strong blow . Built to 18" . G.T.S. in 23 mins of shut in

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.85	116.60	Initial Hydro-static
2	62.62	116.33	Open To Flow (1)
33	138.90	124.83	Shut-In(1)
78	966.84	126.94	End Shut-In(1)
79	150.37	126.51	Open To Flow (2)
107	209.04	127.25	Shut-In(2)
176	942.99	128.73	End Shut-In(2)
177	2100.43	128.98	Final Hydro-static

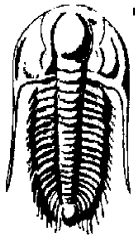
Recovery

Length (ft)	Description	Volume (bbl)
64.00	MCGO 35% m 35% o 30% g	0.90
64.00	GOCM 55% g 30% o 15% m	0.90
537.00	Clean oil 100% o	7.53
0.00	GTS	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blue Goose Drilling Co Inc

16-18s-27w Lane, KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 57897

DST#: 2

ATTN: Ken Wallace

Test Start: 2018.08.23 @ 06:12:24

GENERAL INFORMATION:

Formation: **Marmaton - Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:10:24

Time Test Ended: 15:06:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: **4380.00 ft (KB) To 4464.00 ft (KB) (TVD)**

Total Depth: 4313.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2701.00 ft (KB)

2691.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **8792** Outside

Press@RunDepth: psig @ 4381.00 ft (KB)

Start Date: 2018.08.23

End Date: 2018.08.23

Start Time: 06:12:44

End Time: 15:02:24

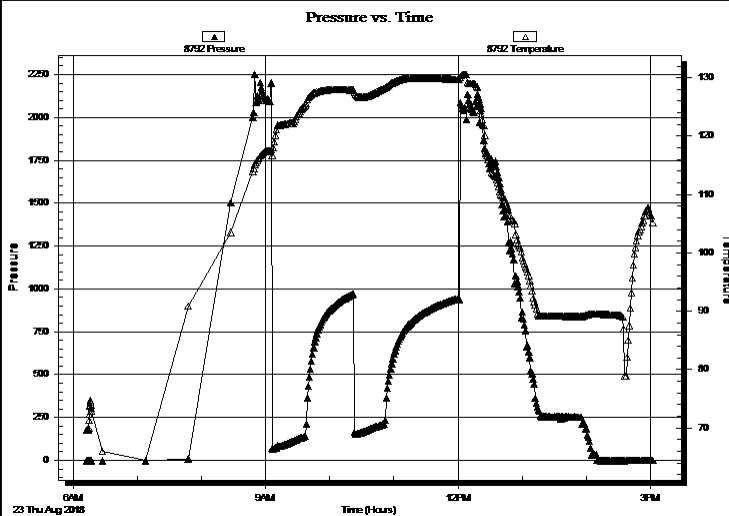
Capacity: 8000.00 psig

Last Calib.: 2018.08.23

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 2 mins. Built to 139"
IS: Fair Blow . Built to 10"
FF: Strong blow . B.O.B. in 9 mins. 129"
FS: Strong blow . Built to 18" . G.T.S. in 23 mins of shut in



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
64.00	MCGO 35%m 35%o 30%g	0.90
64.00	GOCM 55%g 30%o 15%m	0.90
537.00	Clean oil 100% o	7.53
0.00	GTS	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blue Goose Drilling Co Inc

16-18s-27w Lane,KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 57897

DST#: 2

ATTN: Ken Wallace

Test Start: 2018.08.23 @ 06:12:24

Tool Information

Drill Pipe:	Length: 4384.00 ft	Diameter: 3.80 inches	Volume: 61.50 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 61.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4380.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	112.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4353.00	
Shut In Tool	5.00			4358.00	
Hydraulic tool	5.00			4363.00	
Jars	5.00			4368.00	
Safety Joint	3.00			4371.00	
Packer	4.00			4375.00	28.00 Bottom Of Top Packer
Packer	5.00			4380.00	
Stubb	1.00			4381.00	
Recorder	0.00	8931	Inside	4381.00	
Recorder	0.00	8792	Outside	4381.00	
Perforations	2.00			4383.00	
Change Over Sub	1.00			4384.00	
Blank Spacing	64.00			4448.00	
Change Over Sub	1.00			4449.00	
Perforations	12.00			4461.00	
Bullnose	3.00			4464.00	84.00 Bottom Packers & Anchor
Total Tool Length:	112.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blue Goose Drilling Co Inc

16-18s-27w Lane,KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 57897

DST#: 2

ATTN: Ken Wallace

Test Start: 2018.08.23 @ 06:12:24

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:

2100 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: 2.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
64.00	MCGO 35% <i>m</i> 35% <i>o</i> 30% <i>g</i>	0.898
64.00	GOCM 55% <i>g</i> 30% <i>o</i> 15% <i>m</i>	0.898
537.00	Clean oil 100% <i>o</i>	7.533
0.00	GTS	0.000

Total Length: 665.00 ft Total Volume: 9.329 bbl

Num Fluid Samples: 0

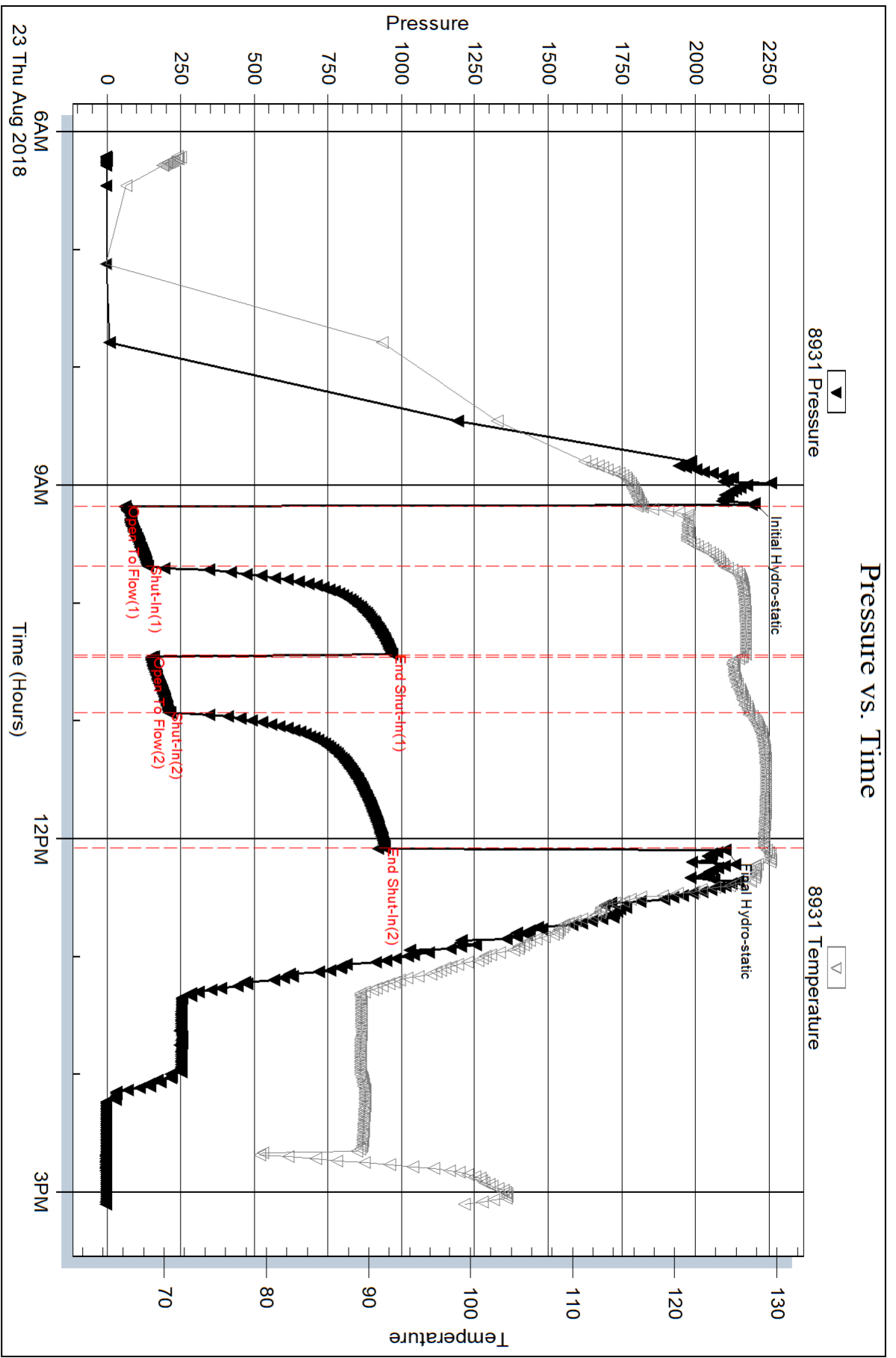
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 41 @ 88 degrees = 44

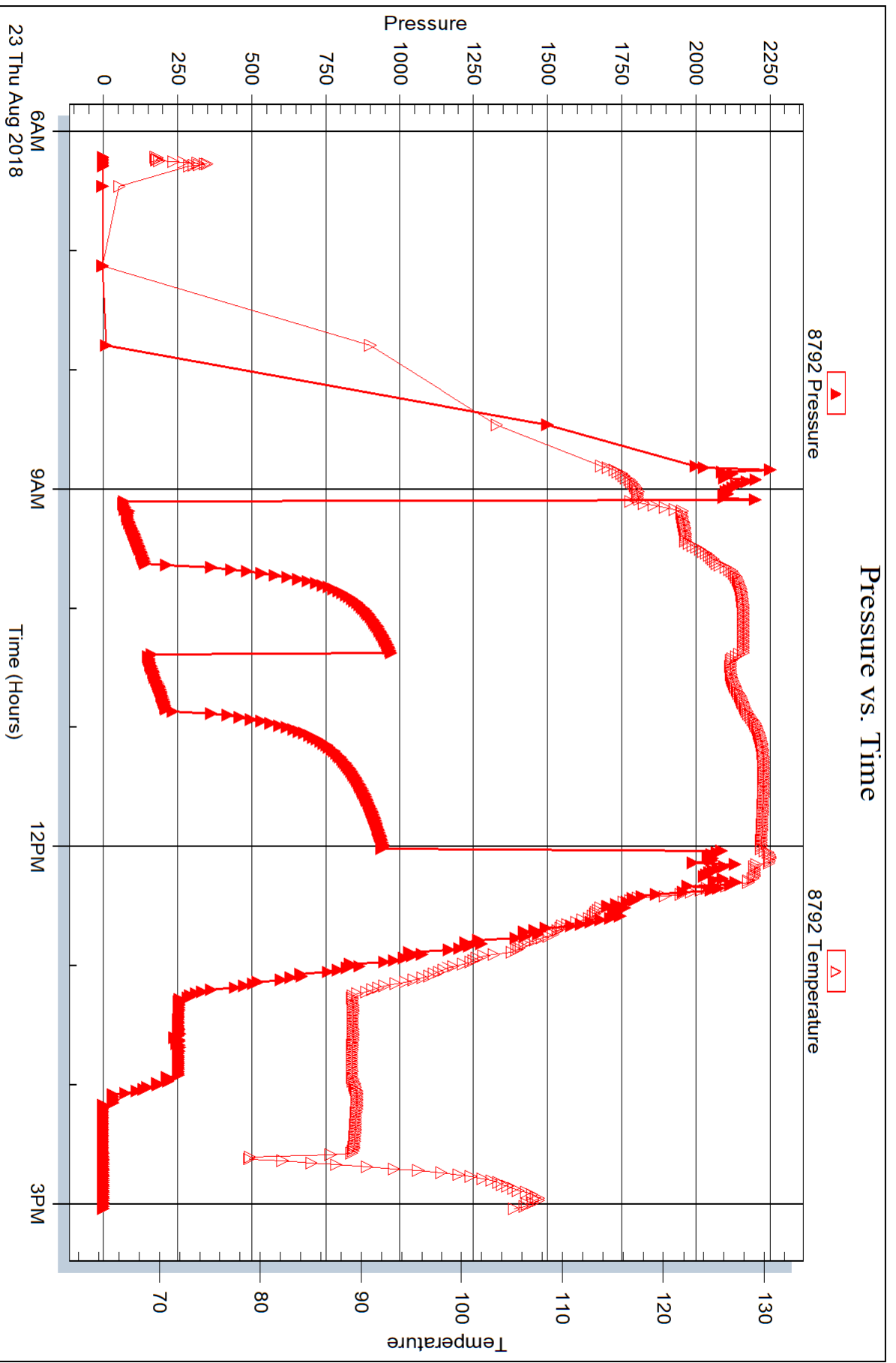


Serial #: 8792

Outside Blue Goose Drilling Co Inc

Hineman #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57897

Printed: 2018.08.28 @ 09:16:02



DRILL STEM TEST REPORT

Prepared For: **Blue Goose Drilling Co Inc**

PO Box 1413
Great Bend KS 67530

ATTN: Ken Wallace

Hineman #1

16-18s-27w Lane,KS

Start Date: 2018.08.24 @ 06:00:15

End Date: 2018.08.24 @ 12:32:30

Job Ticket #: 64347 DST #: 3

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

Printed: 2018.08.28 @ 09:15:00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blue Goose Drilling Co Inc

16-18s-27w Lane,KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 64347

DST#: 3

ATTN: Ken Wallace

Test Start: 2018.08.24 @ 06:00:15

GENERAL INFORMATION:

Formation: **Ft.Scott - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:33:45

Time Test Ended: 12:32:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4471.00 ft (KB) To 4578.00 ft (KB) (TVD)

Reference Elevations: 2701.00 ft (KB)

Total Depth: 4578.00 ft (KB) (TVD)

2691.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8647

Inside

Press@RunDepth: 31.76 psig @ 4573.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.24

End Date:

2018.08.24

Last Calib.:

2018.08.24

Start Time: 06:00:15

End Time:

12:32:30

Time On Btm:

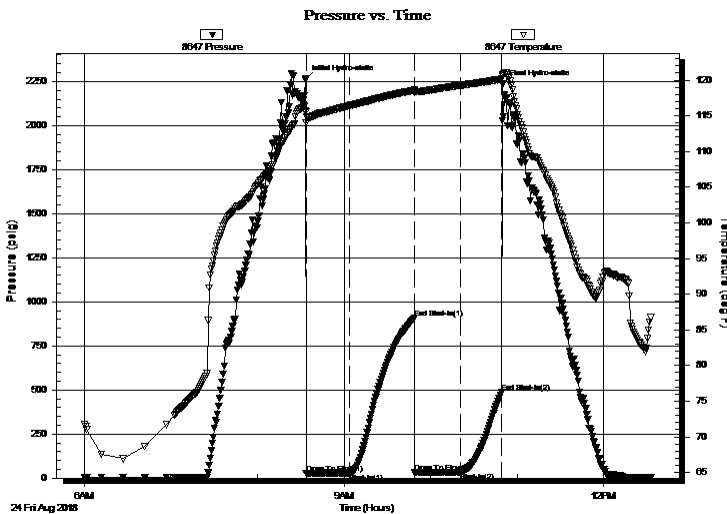
2018.08.24 @ 08:33:30

Time Off Btm:

2018.08.24 @ 10:50:00

TEST COMMENT: IF: Built to 1" blow
IS: No return blow
FF: No blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.92	115.58	Initial Hydro-static
1	27.72	114.07	Open To Flow (1)
31	29.12	116.44	Shut-In(1)
76	908.74	118.57	End Shut-In(1)
76	30.83	118.20	Open To Flow (2)
107	31.76	119.26	Shut-In(2)
136	485.51	120.12	End Shut-In(2)
137	2235.13	120.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100%m	0.21

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Blue Goose Drilling Co Inc

16-18s-27w Lane, KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 64347

DST#: 3

ATTN: Ken Wallace

Test Start: 2018.08.24 @ 06:00:15

GENERAL INFORMATION:

Formation: **Ft. Scott - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:33:45

Time Test Ended: 12:32:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: **4471.00 ft (KB) To 4578.00 ft (KB) (TVD)**

Total Depth: 4578.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2701.00 ft (KB)

2691.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8374 Outside

Press@RunDepth: psig @ 4573.00 ft (KB)

Start Date: 2018.08.24

End Date: 2018.08.24

Capacity: 8000.00 psig

Last Calib.: 2018.08.24

Start Time: 06:00:15

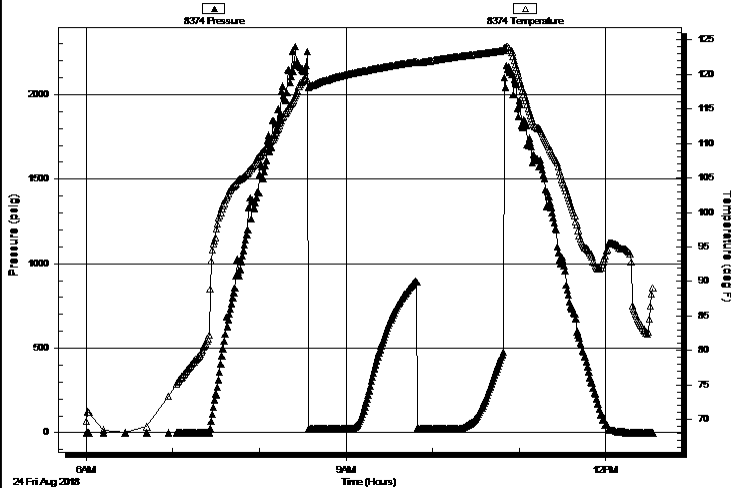
End Time: 12:32:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 1" blow
IS: No return blow
FF: No blow
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100%m	0.21

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blue Goose Drilling Co Inc

16-18s-27w Lane,KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 64347

DST#: 3

ATTN: Ken Wallace

Test Start: 2018.08.24 @ 06:00:15

Tool Information

Drill Pipe:	Length: 4449.00 ft	Diameter: 3.80 inches	Volume: 62.41 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4471.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	107.00 ft			
Tool Length:	135.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4444.00	
Shut In Tool	5.00			4449.00	
Hydraulic tool	5.00			4454.00	
Jars	5.00			4459.00	
Safety Joint	3.00			4462.00	
Packer	5.00			4467.00	28.00 Bottom Of Top Packer
Packer	4.00			4471.00	
Stubb	1.00			4472.00	
Perforations	4.00			4476.00	
Change Over Sub	1.00			4477.00	
Drill Pipe	95.00			4572.00	
Change Over Sub	1.00			4573.00	
Recorder	0.00	8647	Inside	4573.00	
Recorder	0.00	8374	Outside	4573.00	
Bullnose	5.00			4578.00	107.00 Bottom Packers & Anchor

Total Tool Length: 135.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blue Goose Drilling Co Inc

16-18s-27w Lane,KS

PO Box 1413
Great Bend KS 67530

Hineman #1

Job Ticket: 64347

DST#: 3

ATTN: Ken Wallace

Test Start: 2018.08.24 @ 06:00:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100%m	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8647

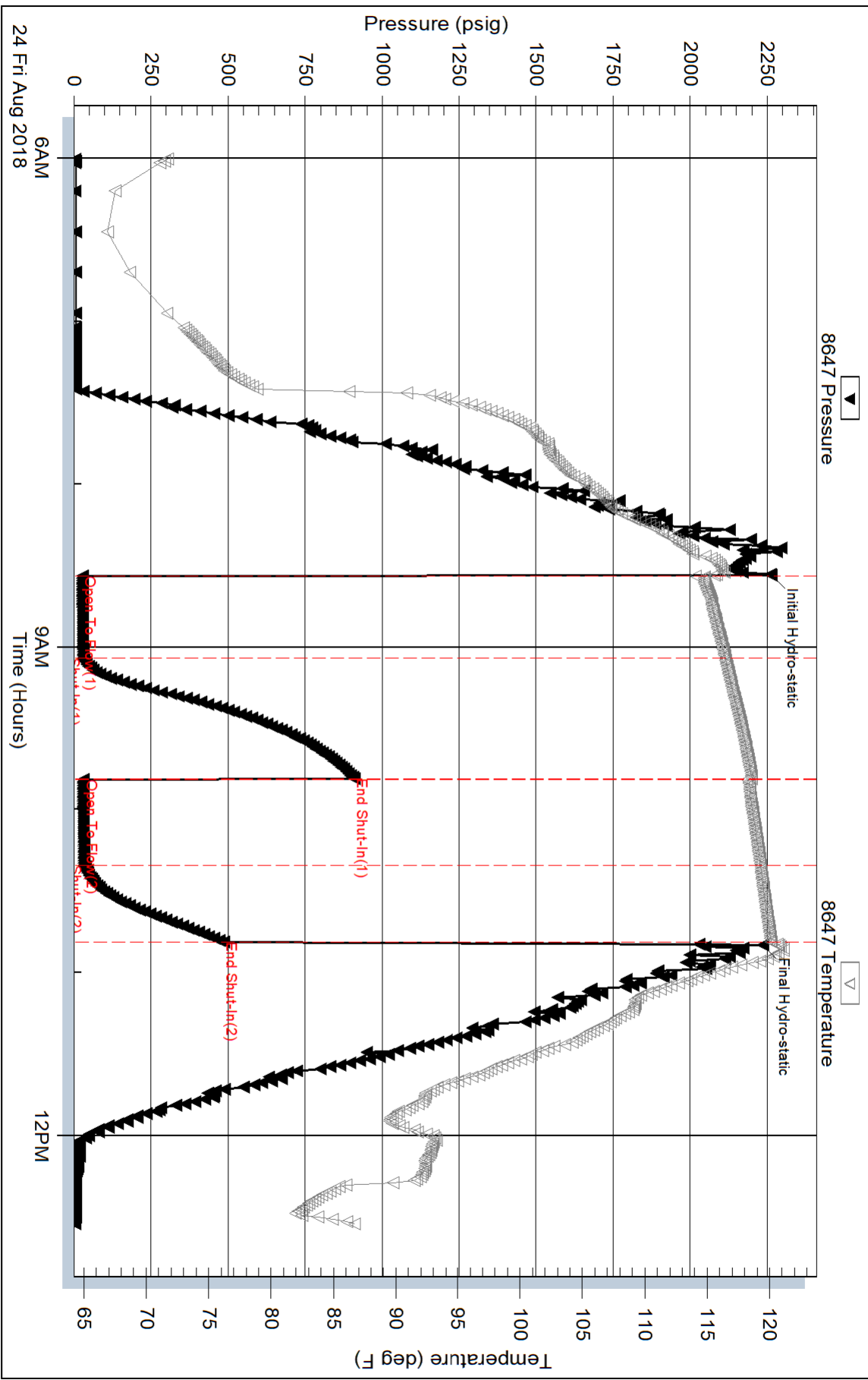
Inside

Blue Goose Drilling Co Inc

Hineran #1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64347

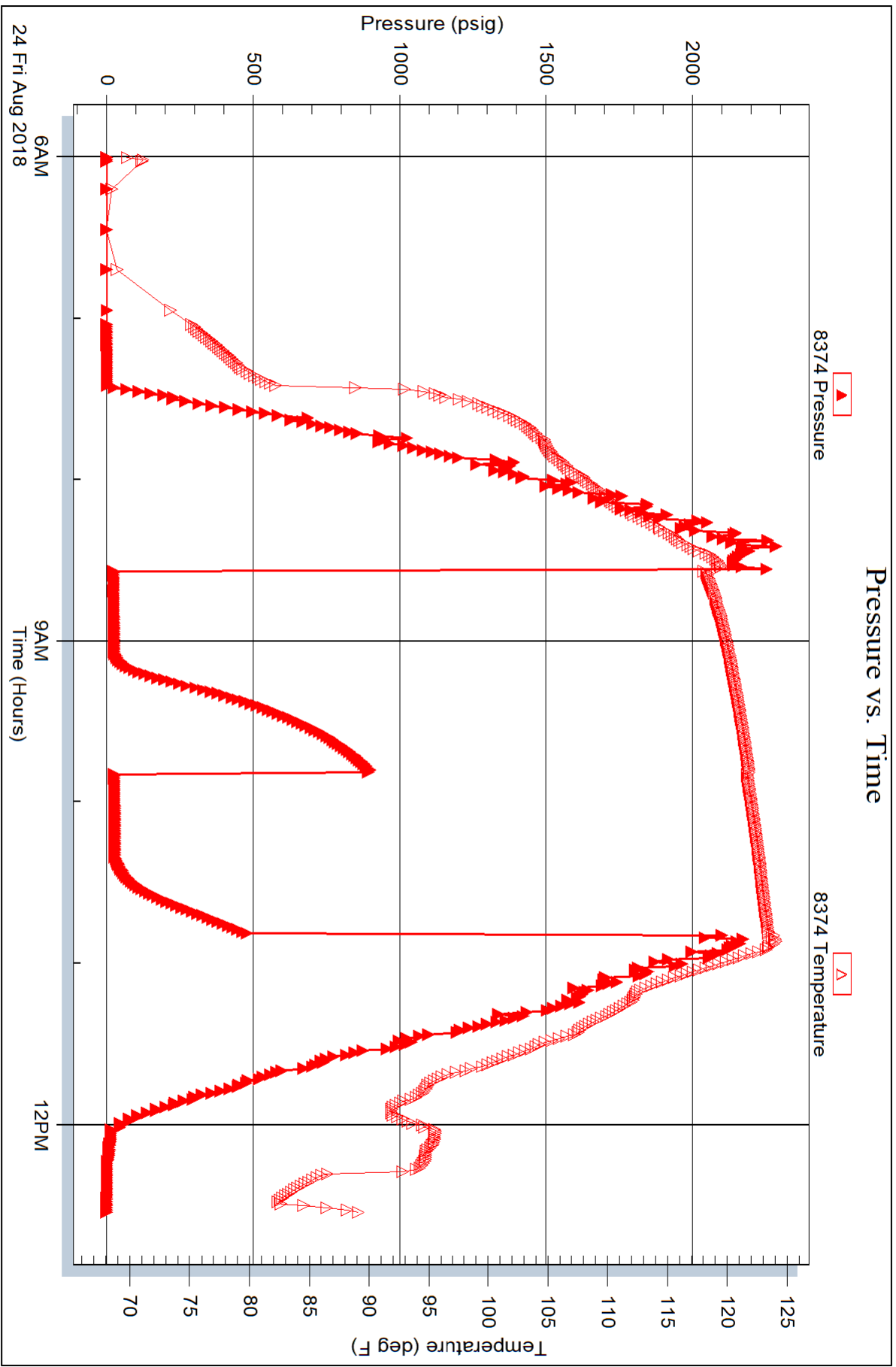
Printed: 2018.08.28 @ 09:15:01

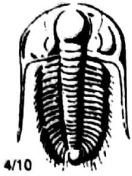
Serial #: 8374

Outside Blue Goose Drilling Co Inc

Hineman #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57896

Well Name & No. ~~Blue Goose~~ ~~1~~ Hinemann #1 Test No. 1 Date 8-21-18
 Company Blue Goose Drilling Company Inc. Elevation 2701 KB 2691 GL
 Address P.O. Box 1413 Great Bend, KS. 67530
 Co. Rep / Geo. Ken Wallace Rig Southwind #8
 Location: Sec. 16 Twp. 18S Rge. 27W Co. Lane State Ks.

Interval Tested 4273 - 4313 Zone Tested Lansing "L"
 Anchor Length 40' Drill Pipe Run 4,258 Mud Wt. 9.05
 Top Packer Depth 4268 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 4273 Wt. Pipe Run 0 WL 7.6
 Total Depth 4313 Chlorides 1,600 ppm System LCM 2⁺

Blow Description IF: Strong Blow. B.O.B. in 17 mins.
ISI: Weak blow. Built to 3/4". Decreased to 1/4".
FF: Strong blow. B.O.B. in 20 mins. Built to 20".
FST: Weak blow. Built to 3 3/4". Decreasing to 2 1/2".

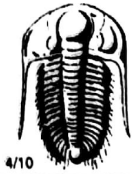
Rec	Feet of	%gas	%oil	%water	%mud
<u>480</u>	<u>G.I.P.</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>100</u>	<u>Oil</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>0</u>
<u>20</u>	<u>MCWGO</u>	<u>5</u>	<u>60</u>	<u>10</u>	<u>25</u>
<u>60</u>	<u>MCWOG</u>	<u>10</u>	<u>5</u>	<u>85</u>	<u>0</u>
<u>60</u>	<u>MCW slight oil</u>	<u>0</u>	<u>0</u>	<u>83</u>	<u>17</u>

Rec Total 240' slow BHT 115° Gravity 37 API RW 0.12 @ 61 °F Chlorides 85,000 ppm

(A) Initial Hydrostatic 2105 Test 1150 T-On Location 2210
 (B) First Initial Flow 20 Jars 250 T-Started 2227
 (C) First Final Flow 63 Safety Joint 75 T-Open 0213
 (D) Initial Shut-In 543 Circ Sub _____ T-Pulled 0515
 (E) Second Initial Flow 66 Hourly Standby 3hr 240 T-Out 1111
 (F) Second Final Flow 111 Mileage (689) 60 Comments clutch out on Rig
 (G) Final Shut-In 539 Sampler _____
 (H) Final Hydrostatic 1952 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 0
 Total 1775
 MP/DST Disc't _____

Approved By Ken Wallace Our Representative Matthew Smith

Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57897

Well Name & No. Hineman #1 Test No. 2 Date 8-23-18
 Company Blue Goose Drilling Company Inc. Elevation 2701 KB 2691 GL
 Address P.O. Box 1413 Great Bend, KS, 67530
 Co. Rep / Geo. Ken Wallace Rig Southwind 8
 Location: Sec. 16 Twp. 18s Rge. 27w Co. Lane State KS.

Interval Tested 4380 - 4464 Zone Tested MM/Pawnee
 Anchor Length 84' Drill Pipe Run 4384 Mud Wt. 9.2
 Top Packer Depth 4375' Drill Collars Run 0 Vis 55
 Bottom Packer Depth 4380' Wt. Pipe Run 0 WL 8.4
 Total Depth 4464' Chlorides 2,100 ppm System LCM 2"

Blow Description IF: Strong blow. B.O.B. in 2 mins. Built to 139".
ISI: Fair blow. Built to 10".
FF: Strong blow. B.O.B. in 9 mins. Built to 129".
FSD: Strong blow. Built to 18". G.T.S. in Shut In 23 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3,719</u>	<u>G.I.P.</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>537</u>	<u>Clean Oil</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>0</u>
<u>64</u>	<u>GOCM</u>	<u>55</u>	<u>30</u>	<u>0</u>	<u>15</u>
<u>64</u>	<u>MC60 MC60</u>	<u>30</u>	<u>35</u>	<u>0</u>	<u>35</u>
<u> </u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 4665' fluid BHT 116 Gravity 44 API RW N/A @ N/A °F Chlorides 2,100 ppm

(A) Initial Hydrostatic <u>2201</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0415</u>
(B) First Initial Flow <u>63</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0612</u>
(C) First Final Flow <u>139</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0910</u>
(D) Initial Shut-In <u>967</u>	<input checked="" type="checkbox"/> Circ Sub <u>50</u>	T-Pulled <u>1205</u>
(E) Second Initial Flow <u>150</u>	<input checked="" type="checkbox"/> Hourly Standby <u>N</u> 1hr <u>80</u>	T-Out <u>1506</u>
(F) Second Final Flow <u>209</u>	<input checked="" type="checkbox"/> Mileage <u>68</u> 60	Comments _____
(G) Final Shut-In <u>943</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2100</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60

Approved By Ken Wallace Our Representative Matthew Smith
 Sub Total 1665 Total 1665 MP/DST Disc't _____

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64347

Well Name & No. Haweman #1 Test No. 3 Date 8-24-18
 Company Blue Goose Drilling Co Elevation 2701 KB 2691 GL
 Address P.O. Box 1413 Great Bend KS 67530
 Co. Rep / Geo. Ken Wallace Rig Southwind 8
 Location: Sec. 16 Twp 18s Rge. 32w Co. Lane State KS

Interval Tested 4471-4578 Zone Tested FS/CK sd
 Anchor Length 107 Drill Pipe Run 4449 Mud Wt. 9.3
 Top Packer Depth 4465 Drill Collars Run Ø Vis 62
 Bottom Packer Depth 4471 Wt. Pipe Run Ø WL 8.8
 Total Depth 4578 Chlorides 3000 ppm System LCM 1
 Blow Description DF: Built to 1" Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 120 Gravity 1150 API RW 250 @ 75 ° F Chlorides 3000 ppm

(A) Initial Hydrostatic 2262 Test 1150 T-On Location 09:40
 (B) First Initial Flow 27 Jars 250 T-Started 06:00
 (C) First Final Flow 29 Safety Joint 75 T-Open 08:34
 (D) Initial Shut-In 908 Circ Sub NC T-Pulled 10:49
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 12:32
 (F) Second Final Flow 31 Mileage 60 RT 60 Comments _____
 (G) Final Shut-In 485 Sampler _____
 (H) Final Hydrostatic 2235 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 30

Sub Total 1535 MP/DST Disc't _____

Approved By Ken Wallace Our Representative Mike Roberts
 TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**CEMENT
BOND
LOG**

Company Blue Goose Drilling Co., INC.

Well Hineman Farms #1

Field Widcat
County Lane
State Kansas

Location: 330' FNL & 2310' FWL

Permanent Datum SEC 16 TWP 18S RGE 27W
Ground Level Elevation 2701'
Log Measured From KB 10' AGL
Drilling Measured From KB

Date 8-31-18

Run Number One
Depth Driller 4660'
Depth Logger 4469'
Bottom Logged Interval 4467'
Top Log Interval 3100'
Open Hole Size 7 7/8"
Type Fluid Water
Density / Viscosity
Max. Recorded Temp. 3346'
Estimated Cement Top 3346'
Time Well Ready ROA
Time Logger on Bottom 9:00 a.m.
Equipment Number T-968
Location Hays, KS
Recorded By Phoenix Jenkins
Witnessed By Mr. Busch Drielle

Other Services

Elevation
K.B. 2701'
D.F. 2700'
G.L. 2691'

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

Case Record	Size	Wd/Ft	Top	Bottom
Surface String	8.5/8"	23#	0	261'
Prot. String	5.5"		0	N/A
Production String				
Liner				

<<< Fold Here >>>

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

Comments

West of Ness City to Turkey Red Rd, 1 N to tank battery, West into location.

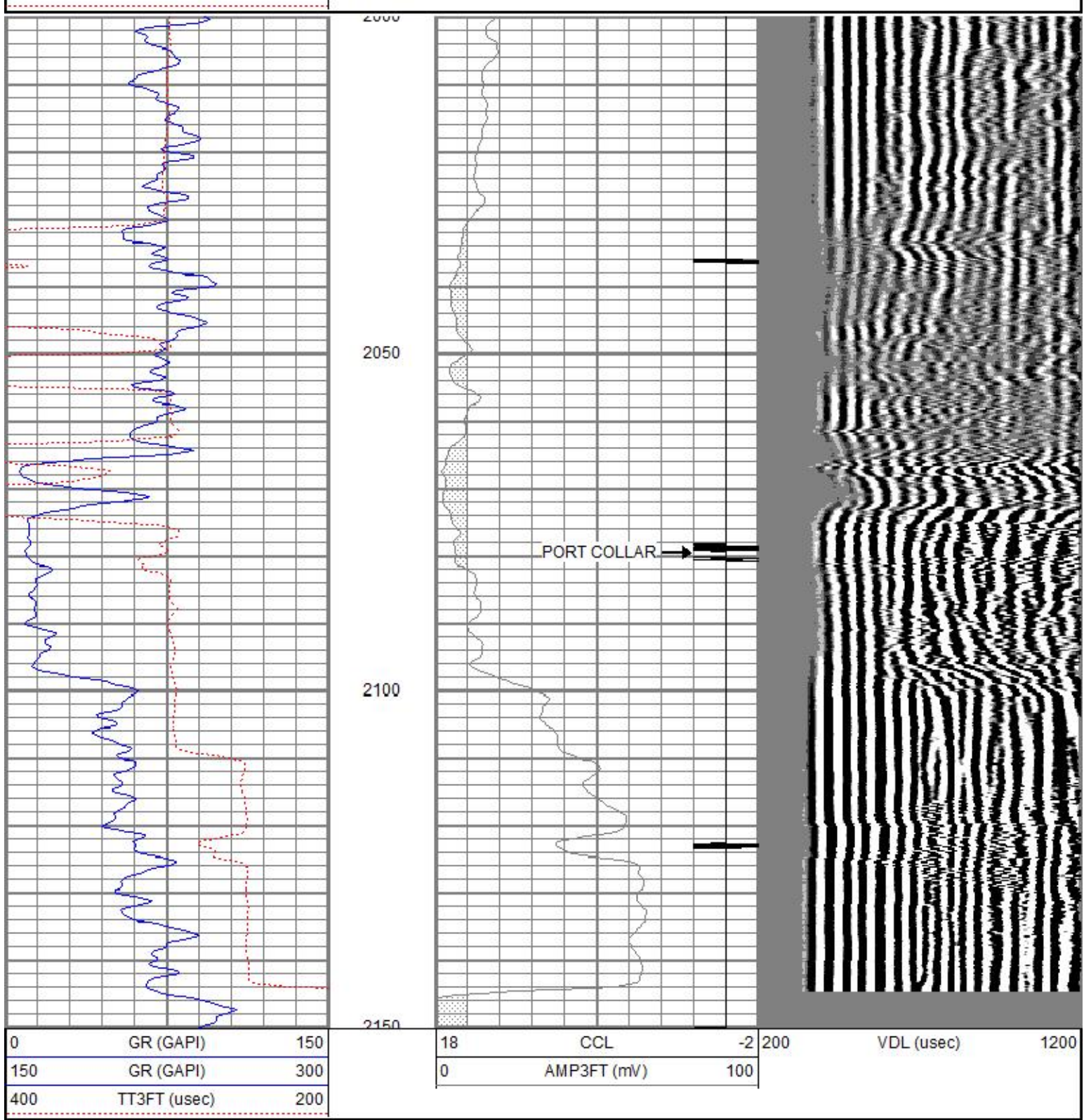
Thanks For Using Gemini Wireline, LLC
785-625-1182



MAIN PASS

Database File bghinemanfarms#1cbl.db
Dataset Pathname pass3.1depth
Presentation Format cbl
Dataset Creation Fri Aug 31 11:11:44 2018
Charted by Depth in Feet scaled 1:240

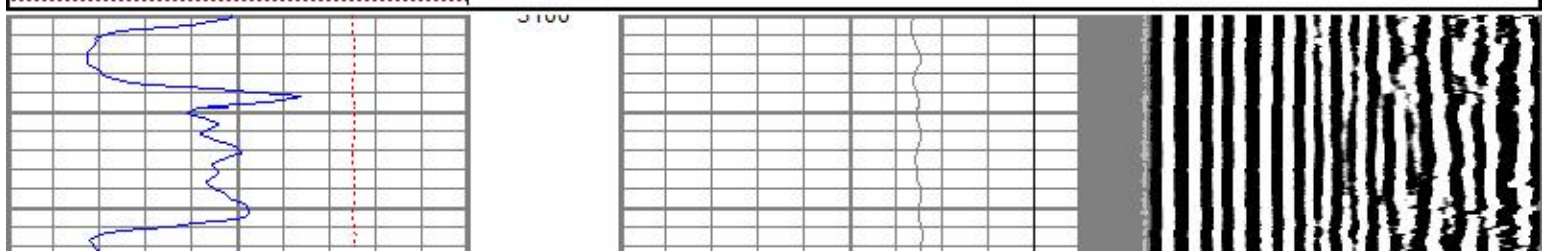
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150	GR (GAPI)	300	0	AMP3FT (mV)	100			
400	TT3FT (usec)	200						

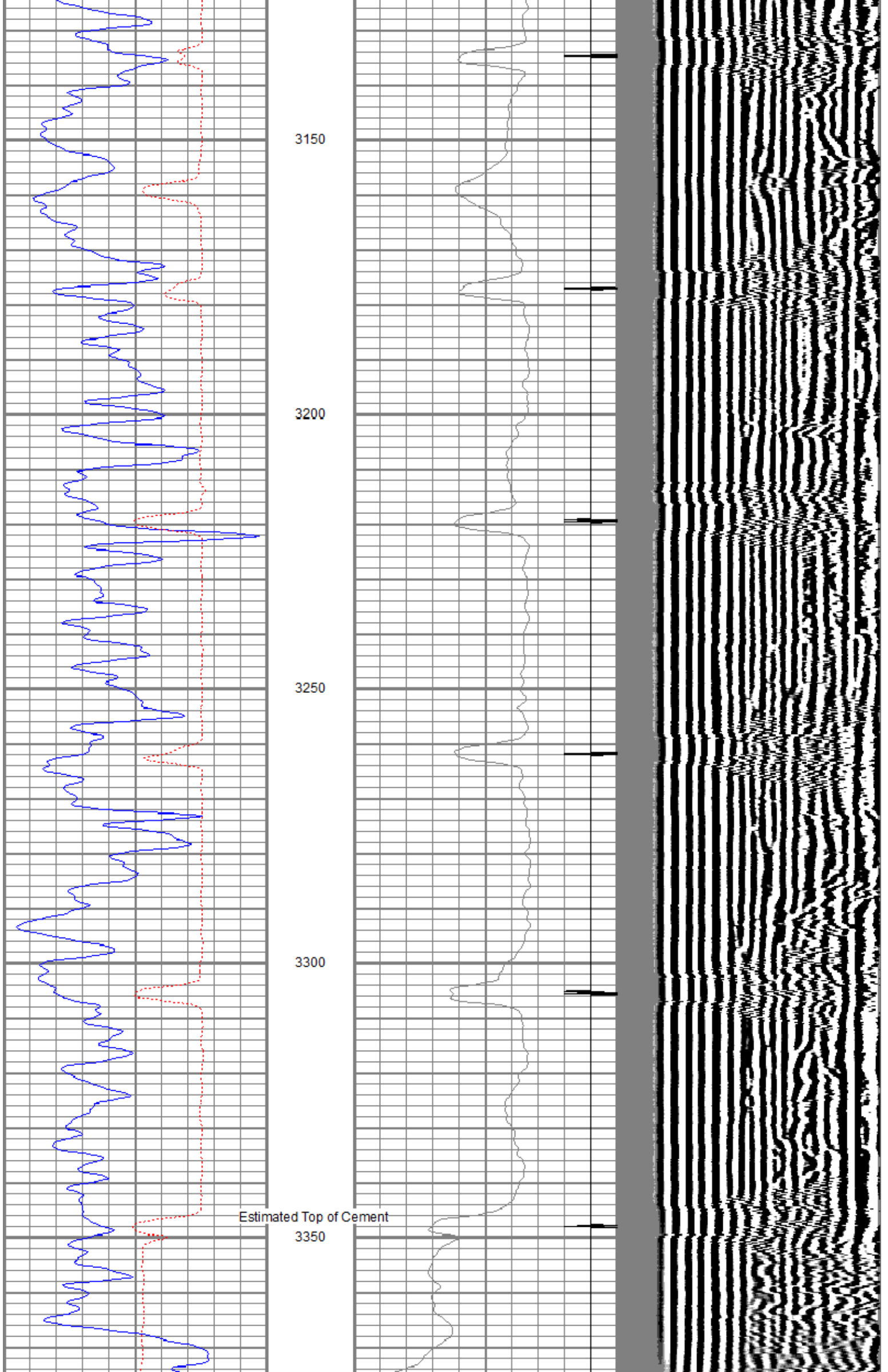


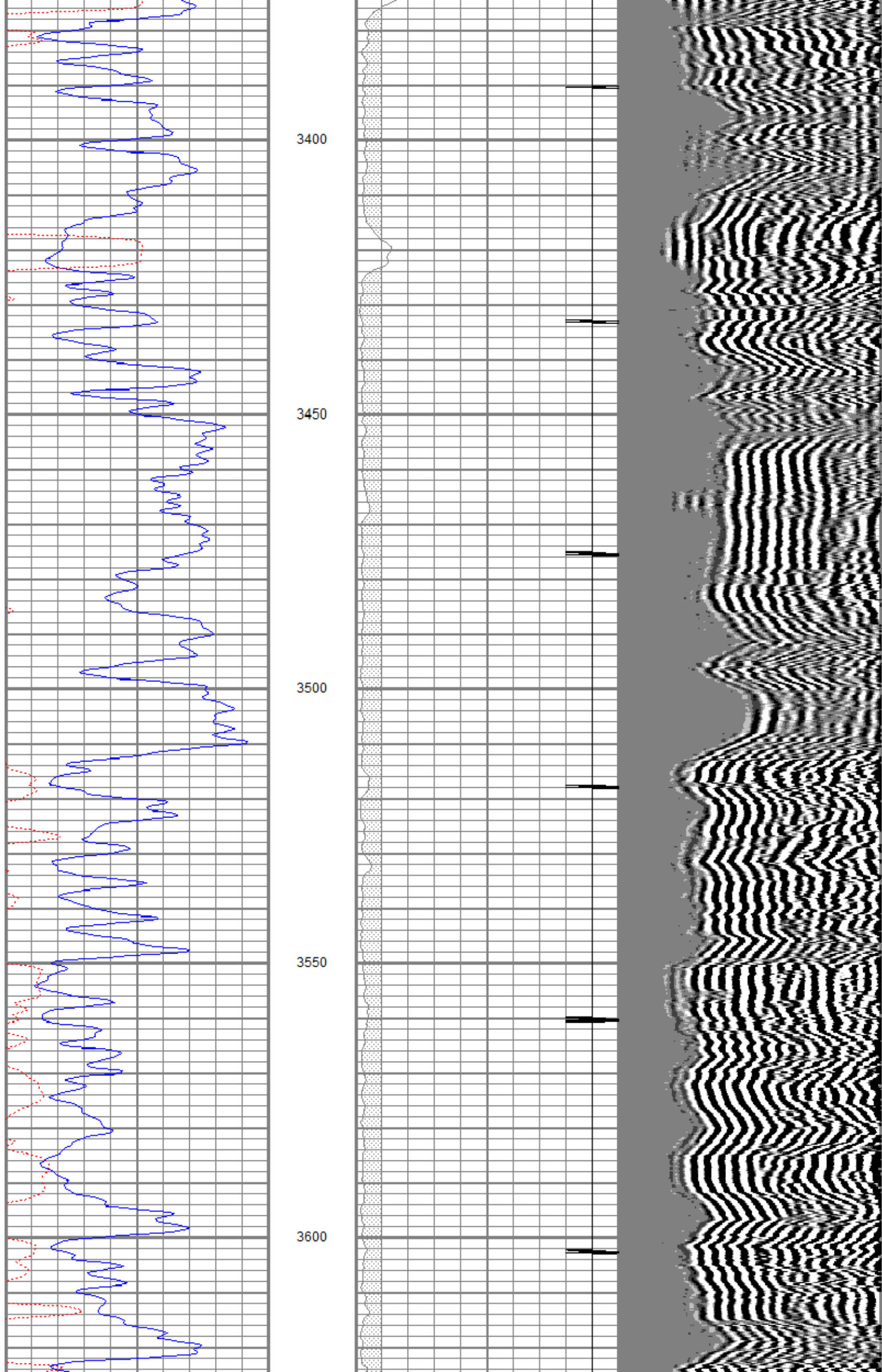
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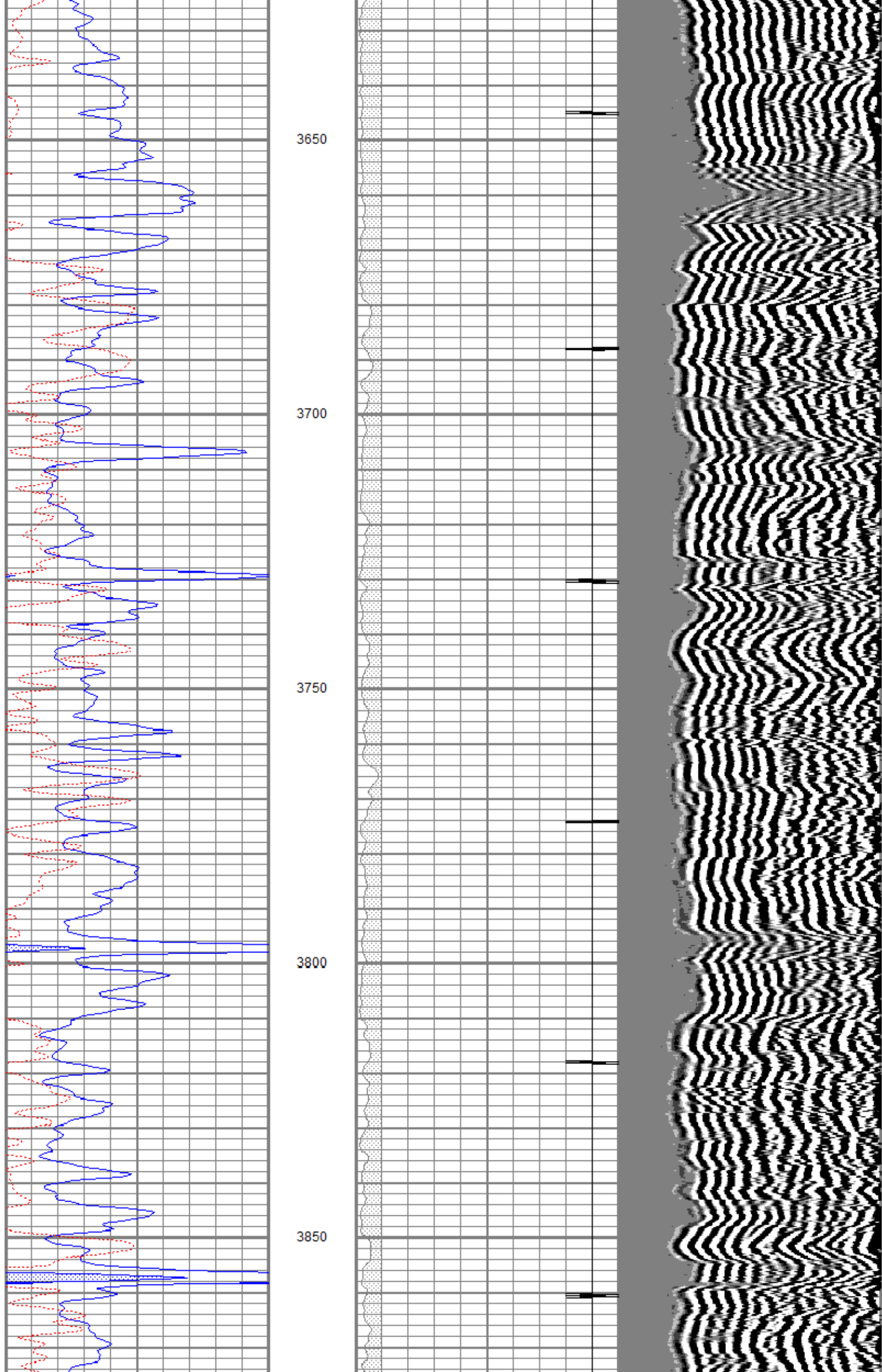
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 Presentation Format cbl
 Dataset Creation Fri Aug 31 11:11:44 2018
 Charted by Depth in Feet scaled 1:240

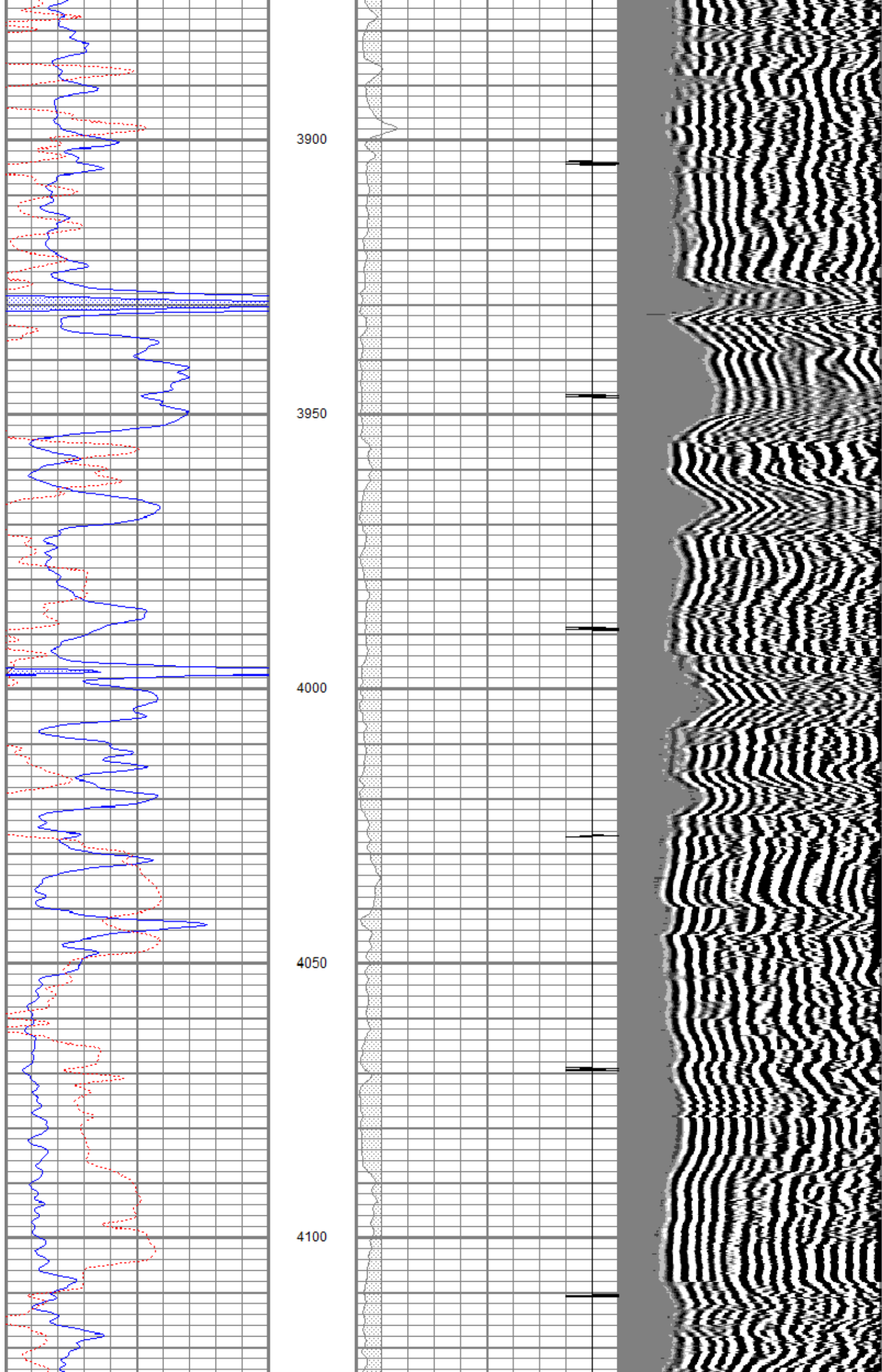
0	GR (GAPI)	150	18	CCL	-2	200	VDL (uSec)	1200
150	GR (GAPI)	300	0	AMP3FT (mV)	100			
400	TT3FT (uSec)	200						

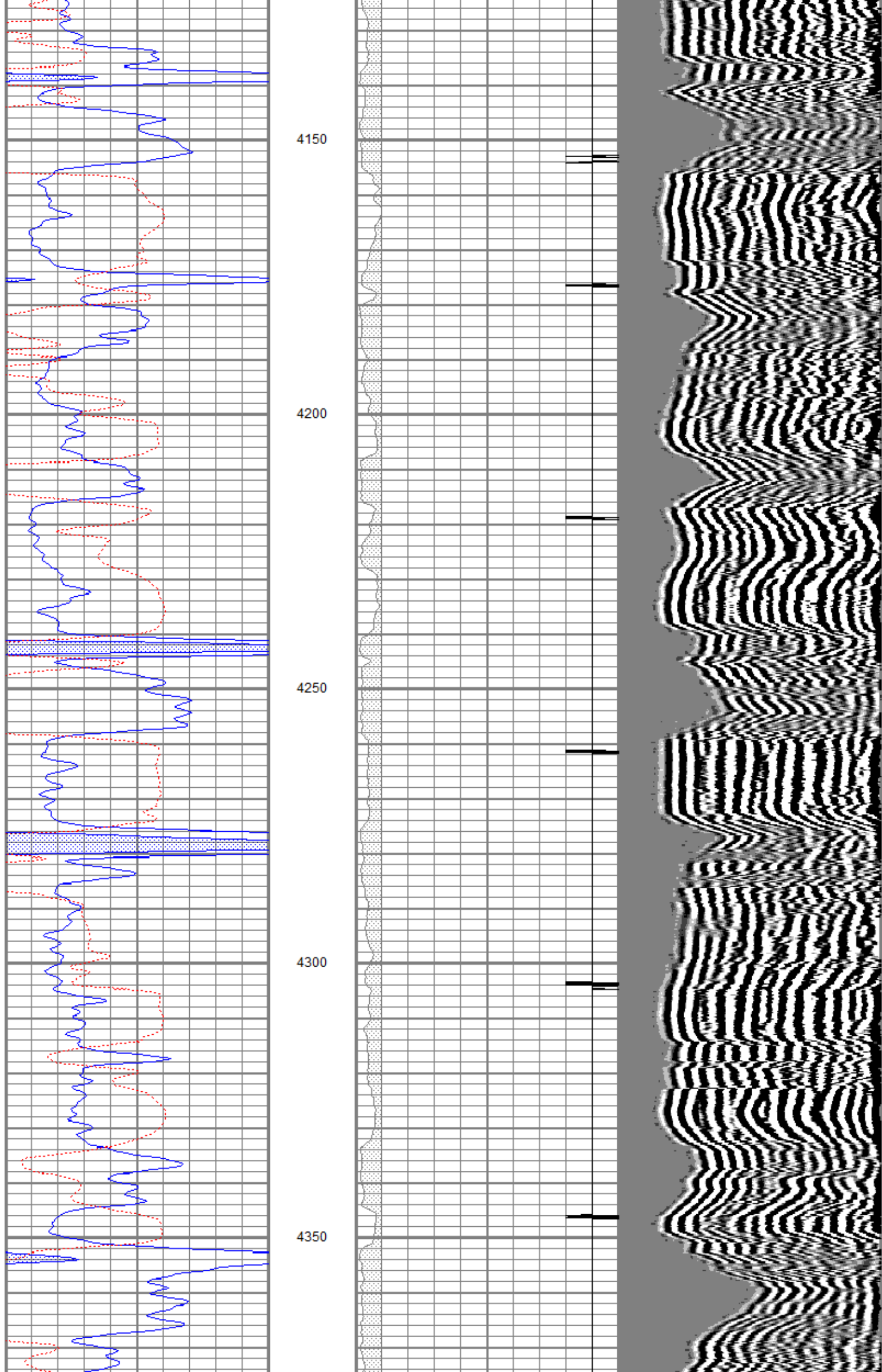


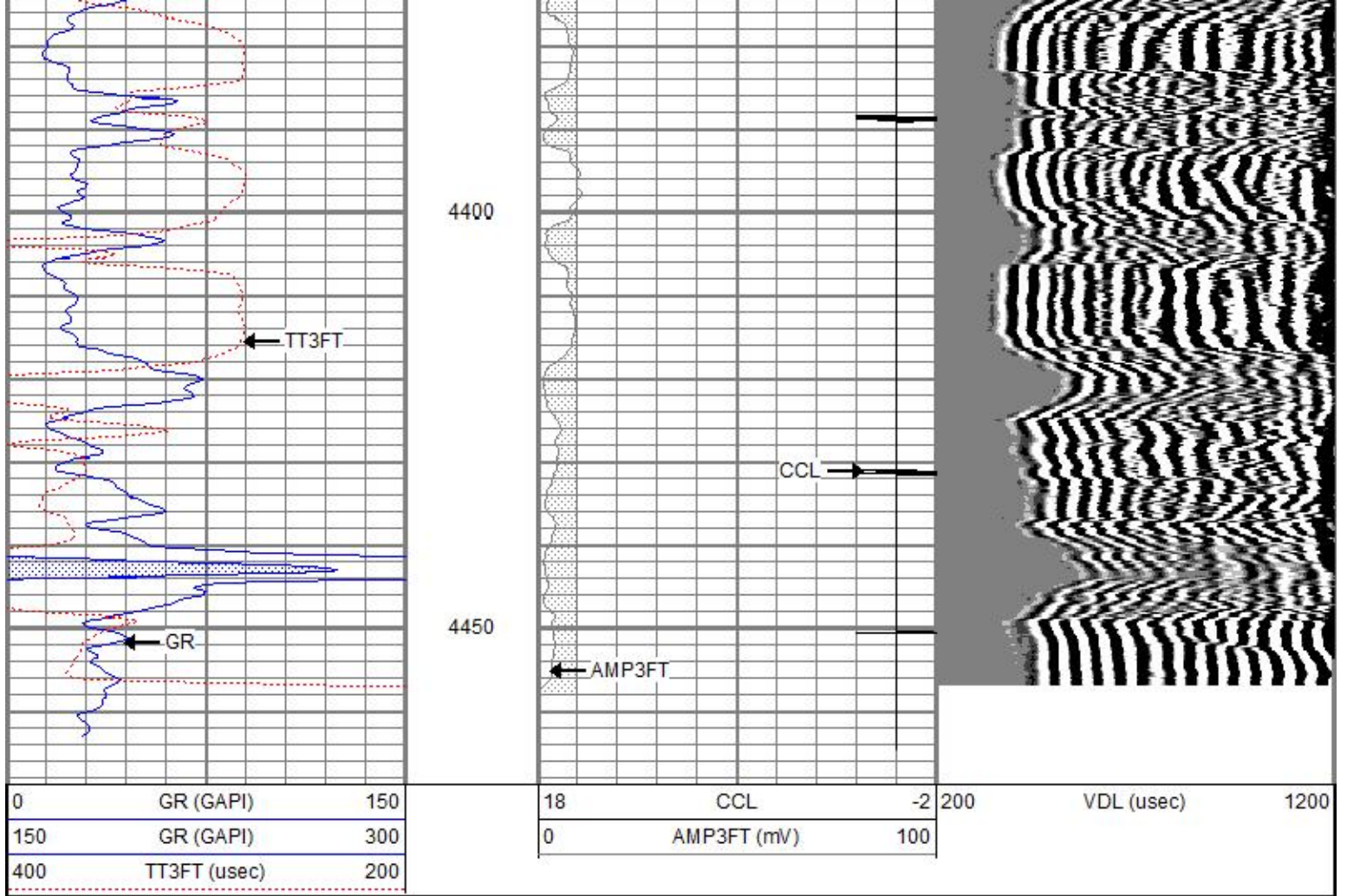








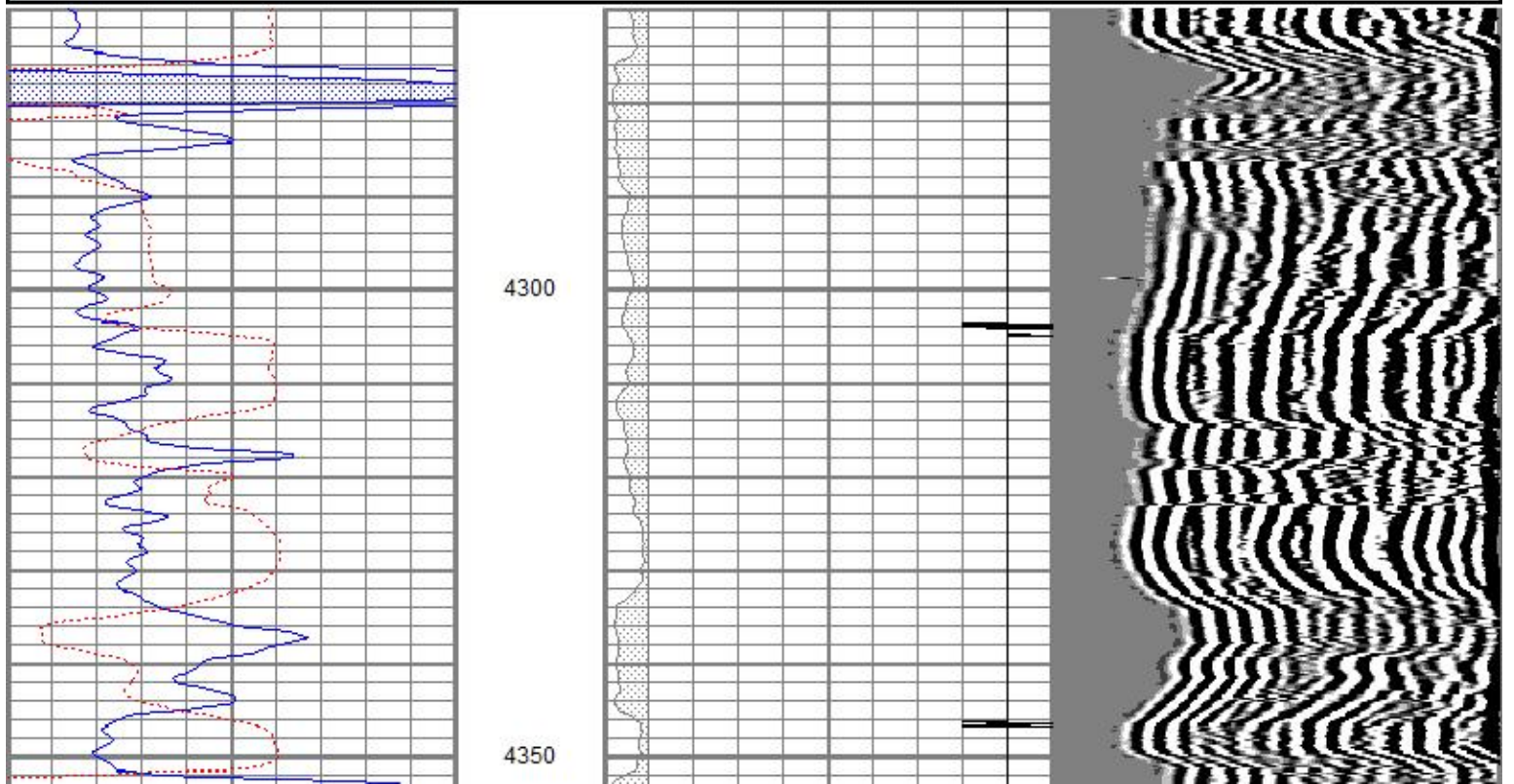


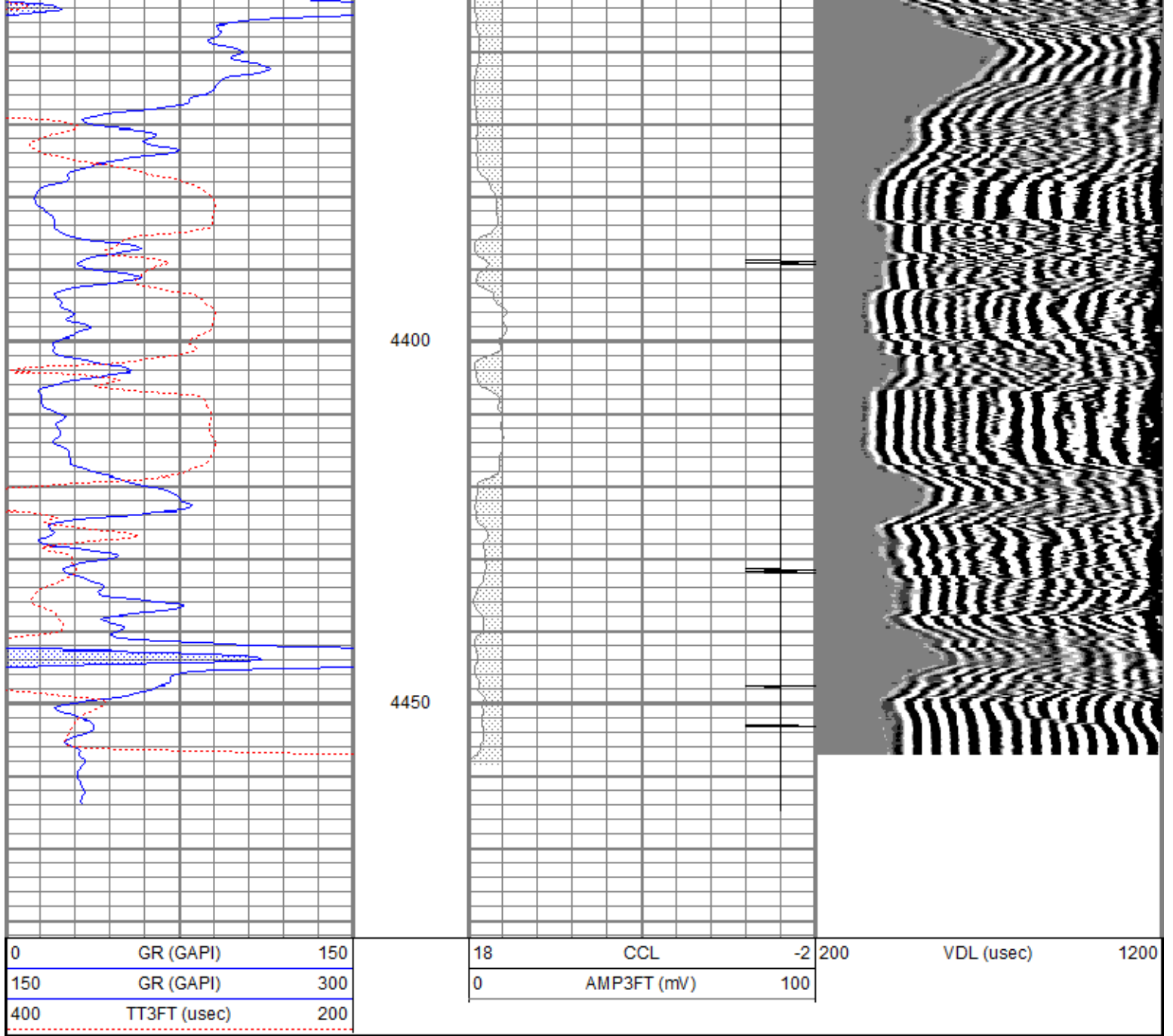


REPEAT PASS

Database File bghinemanfarms#1cbl.db
 Dataset Pathname pass1
 Presentation Format cbl
 Dataset Creation Fri Aug 31 08:54:14 2018
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	18	CCL	-2	200	VDL (usec)	1200
150	GR (GAPI)	300	0	AMP3FT (mV)	100			
400	TT3FT (usec)	200						





Calibration Report

Database File bghinemanfarms#1cbl.db
 Dataset Pathname pass2
 Dataset Creation Fri Aug 31 09:06:05 2018

Gamma Ray Calibration Report

Serial Number: 080224
 Tool Model: Probe1
 Performed: Wed Nov 22 15:15:53 2017

Calibrator Value: 200.0 GAPI

Background Reading: 15.0 cps
 Calibrator Reading: 222.7 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 061007
 Tool Model: DigitalCBL

Calibration Casing Diameter: 5.500 in
 Calibration Depth: 2362.032 ft

Master Calibration, performed Fri Aug 31 08:47:00 2018:

Raw (v)		Calibrated (mv)		Results	
Zero	Cal	Zero	Cal	Gain	Offset

3'	0.006	0.780	1.000	71.921	91.618	0.430
CAL						
5'	0.006	0.719	1.000	71.921	99.549	0.378
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

Air Zero Calibration, performed Wed Nov 22 14:44:16 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
CENT	16.54		CENT-rub	0.33	1.75	0.80
WVF5FT	11.69		Probedig-DigitalCBL (061007)	8.77	2.75	92.00
WVF3FT	11.69		2 3/4 Bond Tool			
CENT	7.44		CENT-275 2 3/4" Centralizer	2.94	2.75	10.00
CCL	3.67		CCL-Probe (080224)	1.42	2.75	20.00
GR	2.30		GR-Probe1 (080224)	3.08	2.75	40.00

Dataset: bghinemanfarms#1cbl.db: field/well/run1/pass2
Total length: 16.54 ft
Total weight: 162.80 lb
O.D.: 2.75 in



PIONEER
Pioneer Energy Services

**MICRORESISTIVITY
LOG**

Company **BLUE GOOSE DRILLING CO., INC.**
Well **HINEMAN FARMS #1**
Field **WILDCAT**
County **LANE** State **KANSAS**

Location: API #: 15-101-22609-00-00
NE NE NW
330' FNL & 2310' FWL
SEC 16 TWP 18S RGE 27W
Permanent Datum **GROUND LEVEL Elevation 2691'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**
Other Services
**CNL/CDL
DIL**
Elevation
K.B. 2701'
D.F. N/A
G.L. 2691'

Date	8/25/2018
Run Number	TWO
Depth Driller	4660'
Depth Logger	4662'
Bottom Logged Interval	4661'
Top Log Interval	3600'
Casing Driller	8.625" @ 261'
Casing Logger	259'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	3100
Density / Viscosity	9.2 74
pH / Fluid Loss	10.0 8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.70 @ 67
Rmt @ Meas. Temp	0.53 @ 67
Rmc @ Meas. Temp	0.95 @ 67
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.38 @ 123
Operating Rig Time	4 HOURS
Max Rec. Temp. F	123
Equipment Number	91
Location	HAYS
Recorded By	D. SCHMIDT
Witnessed By	KEN WALLACE

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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.

DIGHTON,
6 EAST TO TURKEY RED RD, 1 NORTH TO TB,
WEST INTO

Log Measured From: **KELLY BUSHING** 10 Ft. Above Permanent Datum

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

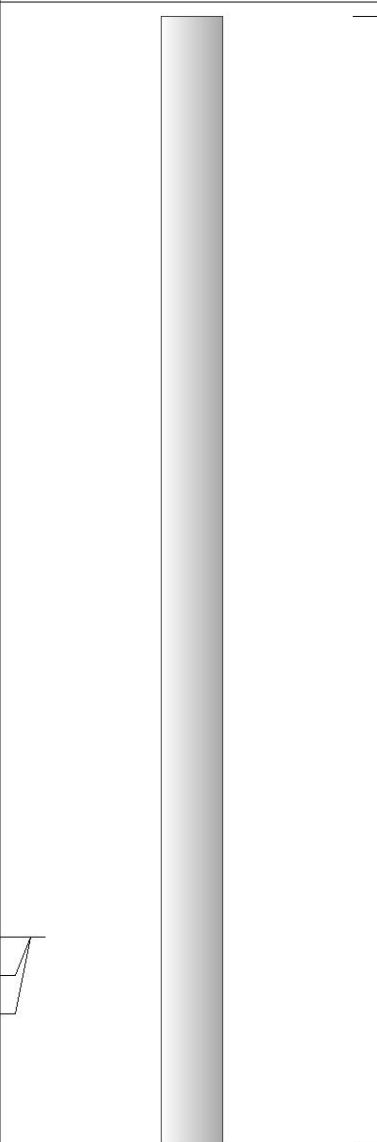
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: KEN WALLACE
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

Database C:\ProgramData\Warrior\Data\bluegoose_hineman farms 1.db
 Dataset field/well/STACK/pass3.3/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	337	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	4660	123	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
MCAL MI MN	1.00 1.00 1.00		ML-Armadillo (ARM001) Pengo Mandrel & Armadillo ML Electronics (2014)	5.50	3.50	100.00

Dataset: bluegoose_hineman farms 1.db: field/well/MEL/pass2
 Total length: 5.50 ft
 Total weight: 100.00 lb
 O.D.: 3.50 in

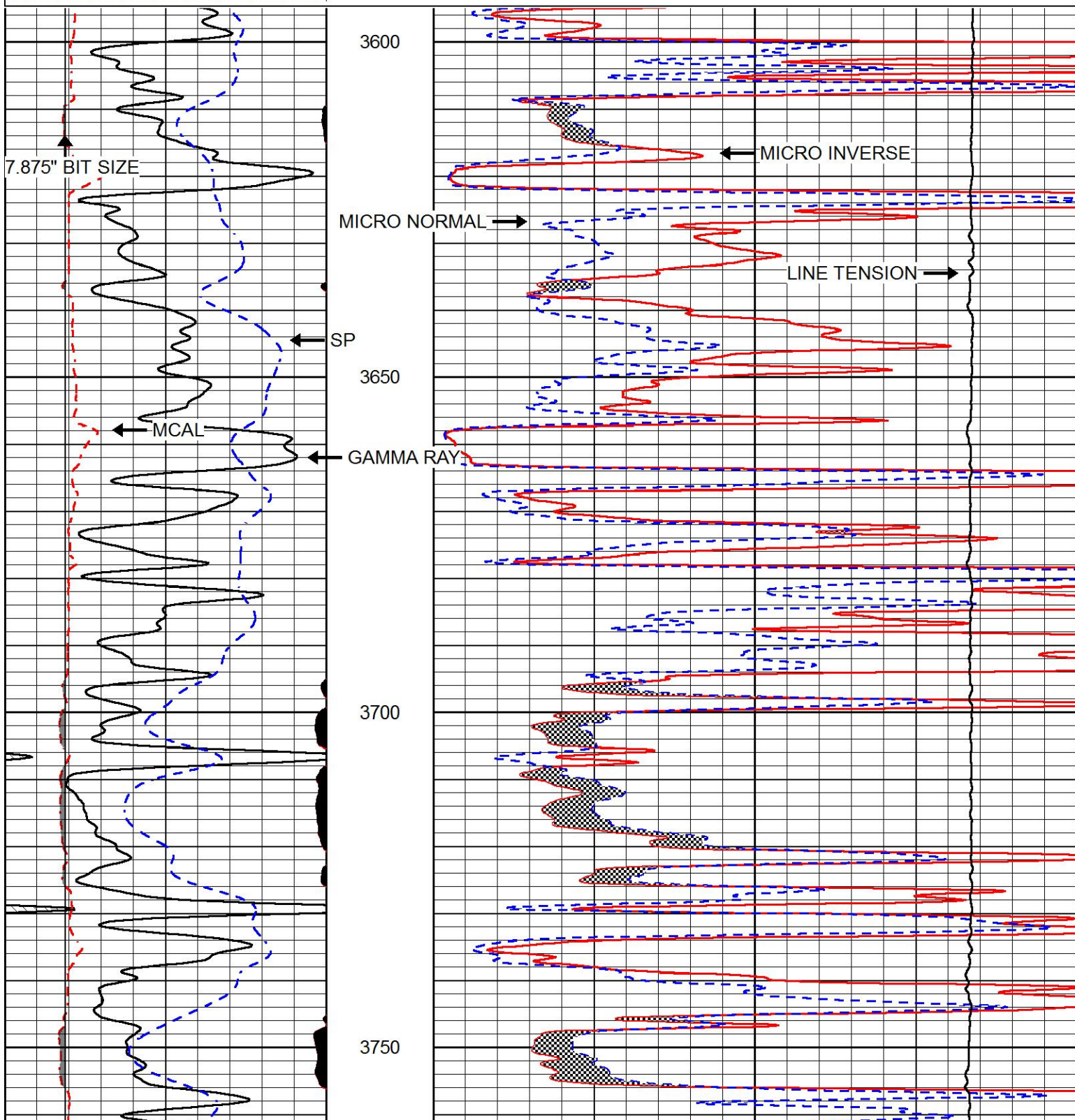


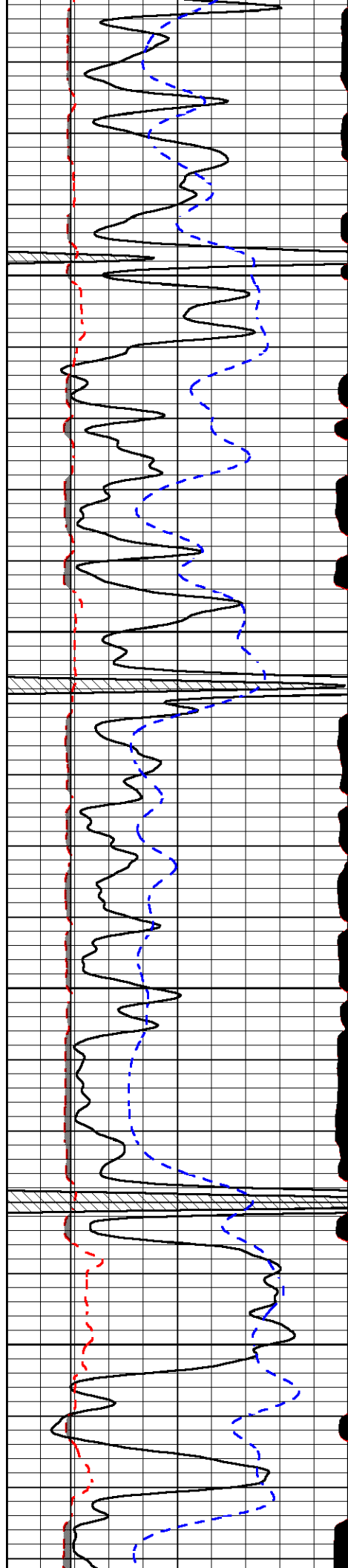
MAIN PASS

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 Dataset Pathname STACK/pass4.1
 Presentation Format micro
 Dataset Creation Sat Aug 25 01:54:11 2018
 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



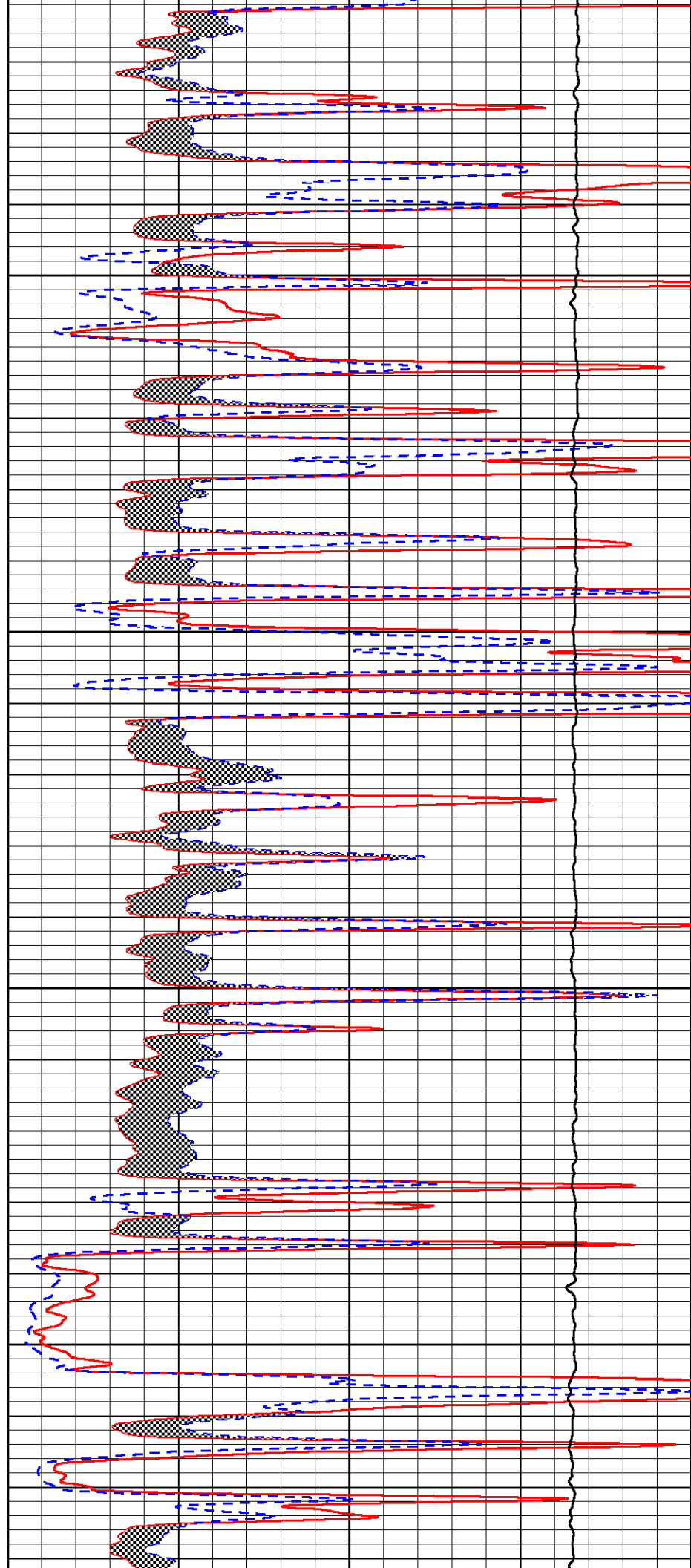


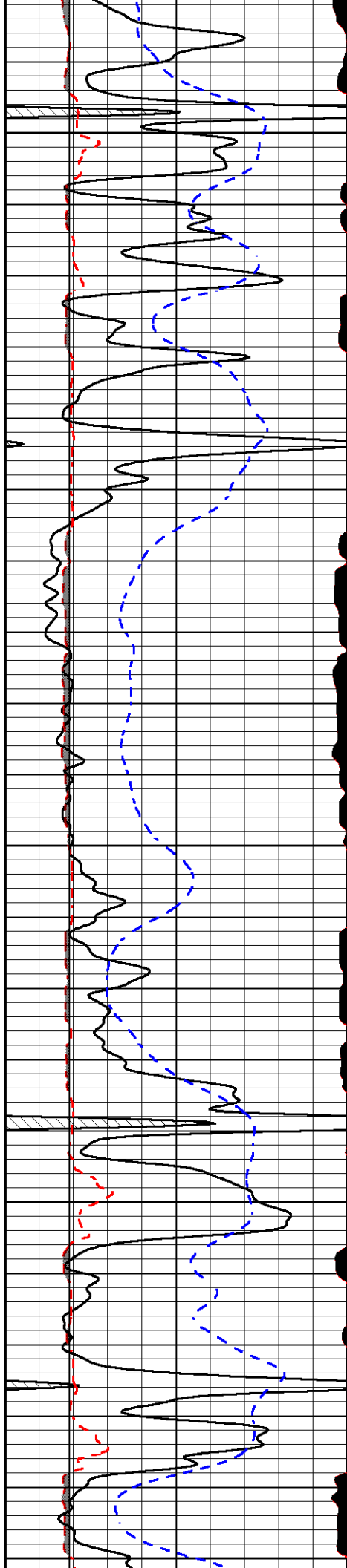
3800

3850

3900

3950





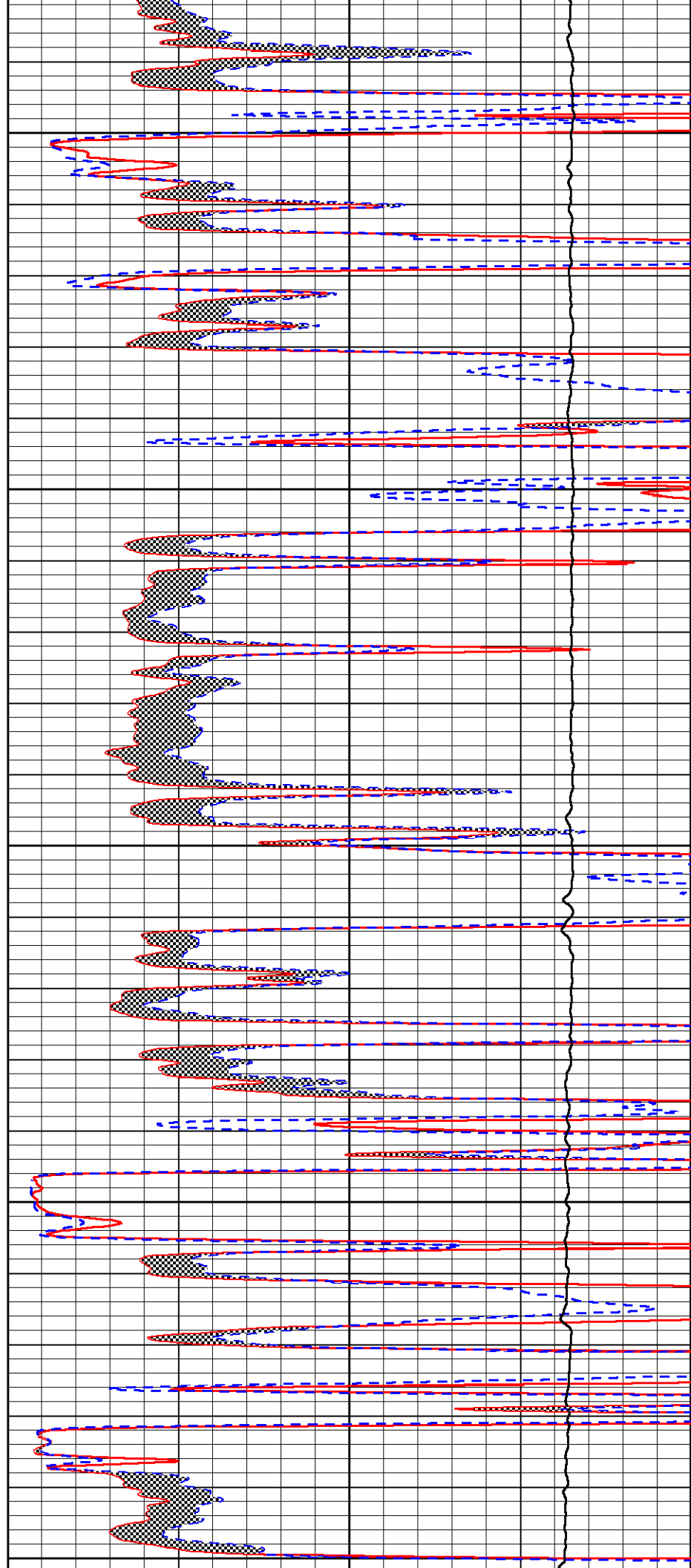
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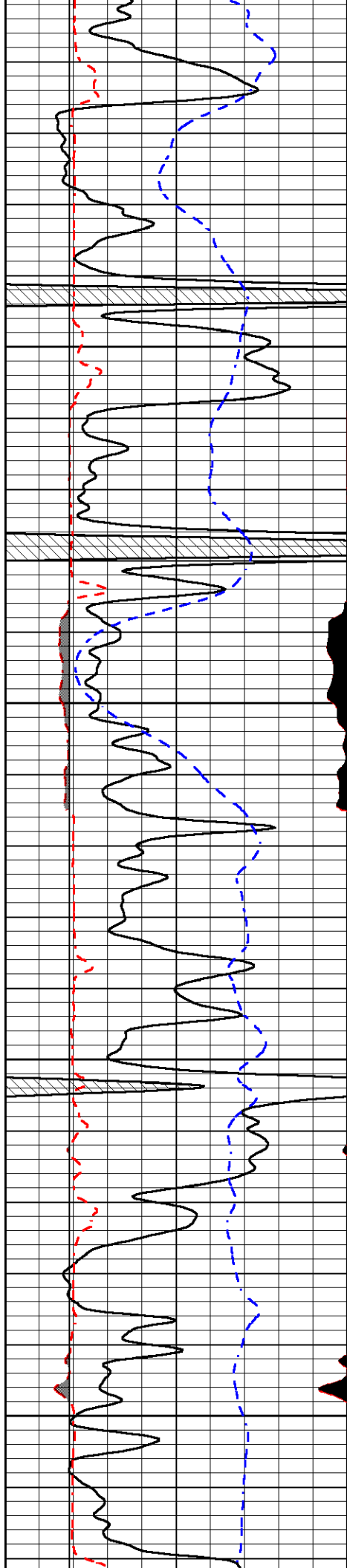
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4100

4150

4200



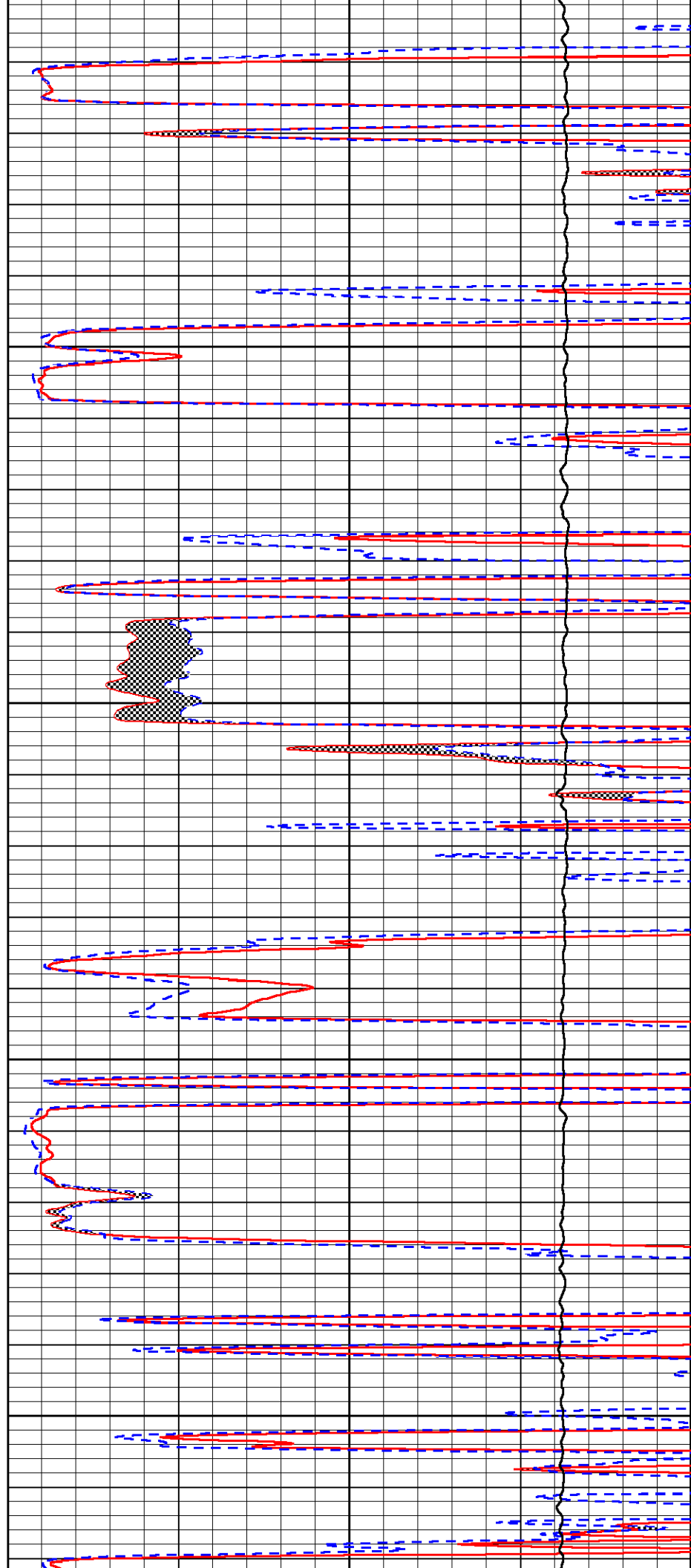


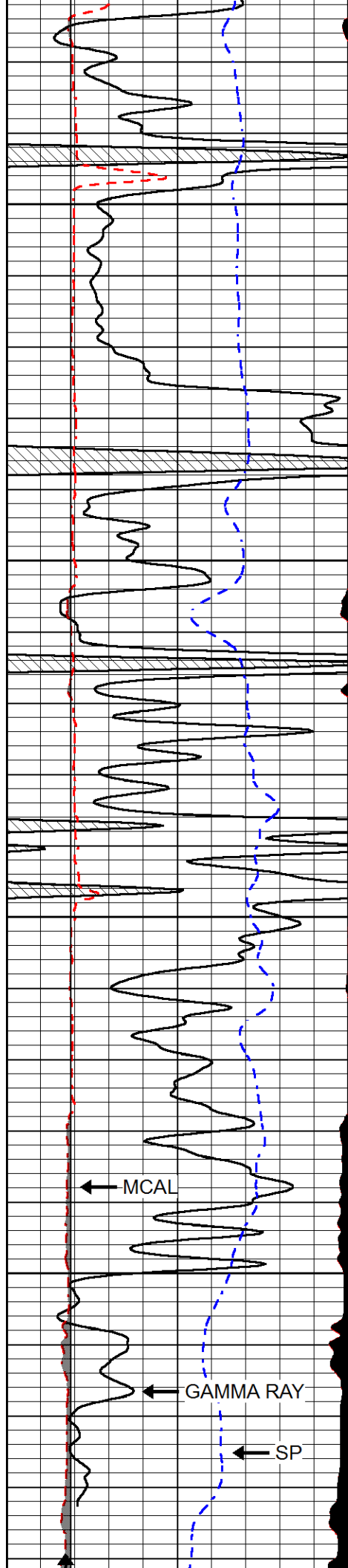
4250

4300

4350

4400





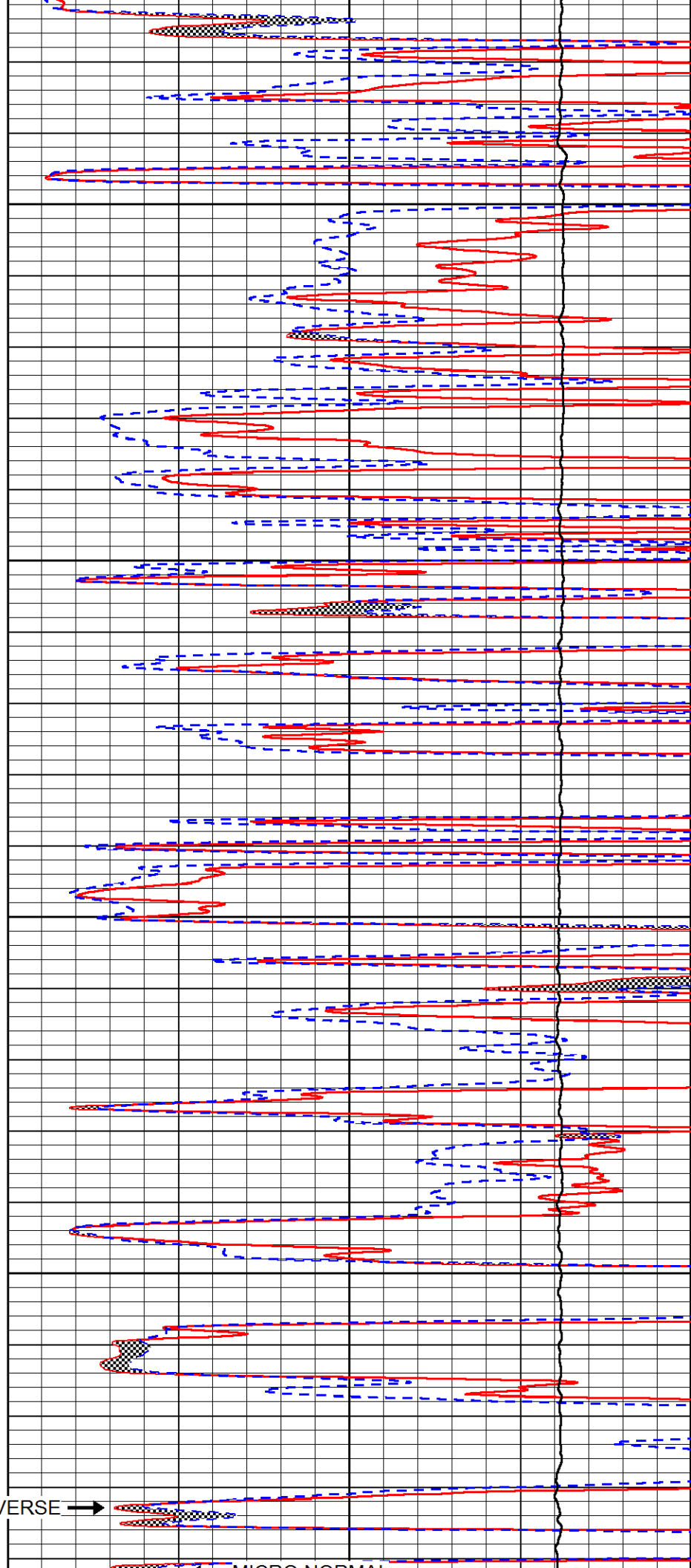
4450

4500

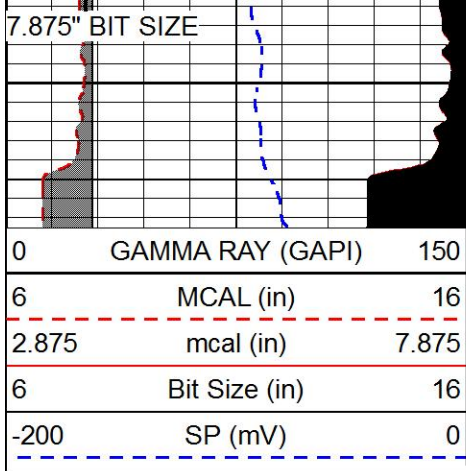
4550

4600

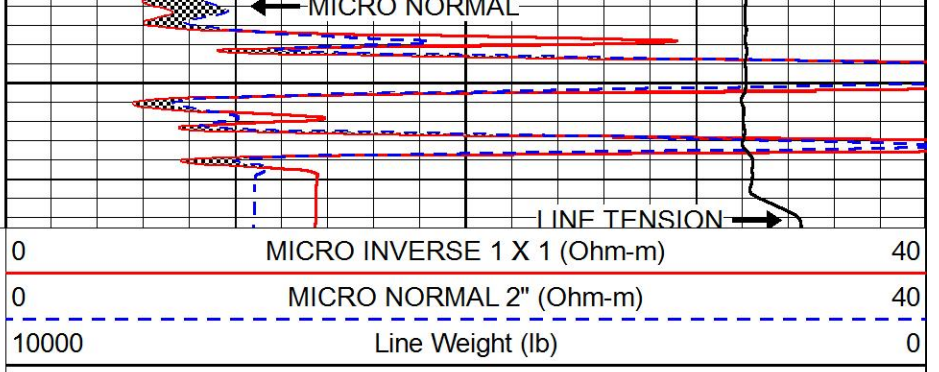
MICRO INVERSE →



MICRO NORMAL

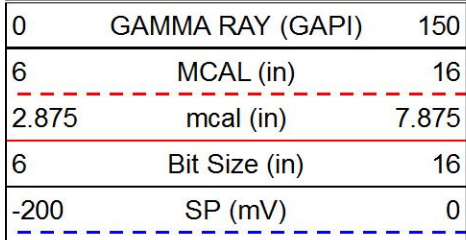


4650



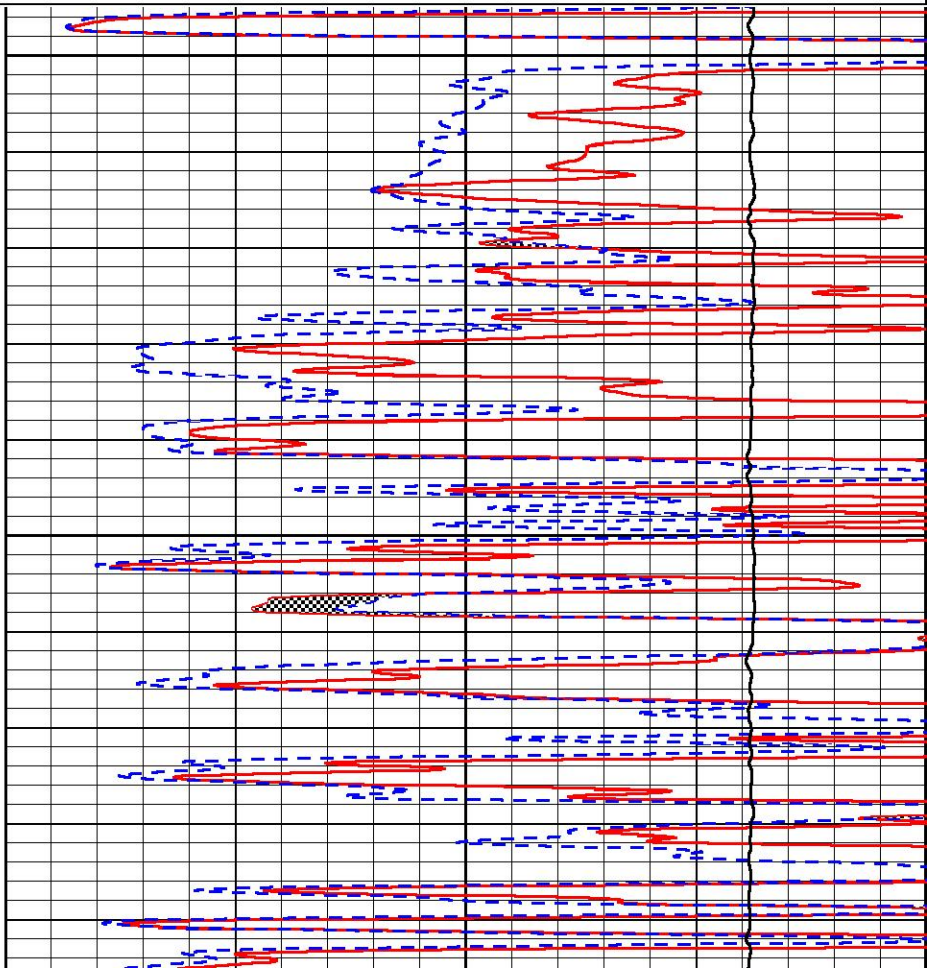
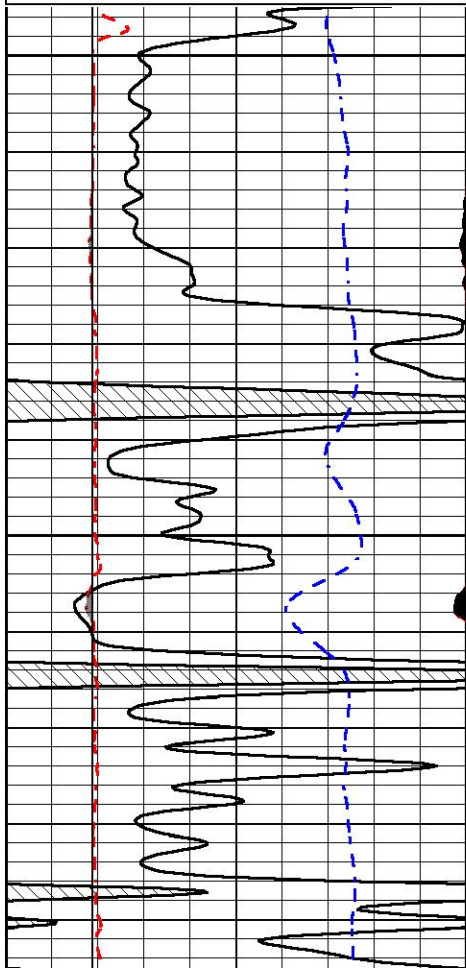
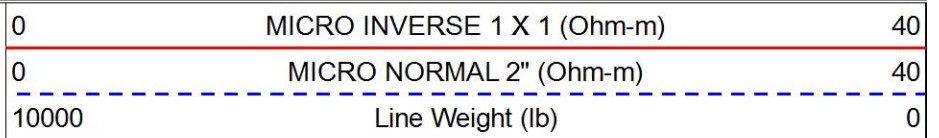
REPEAT SECTION

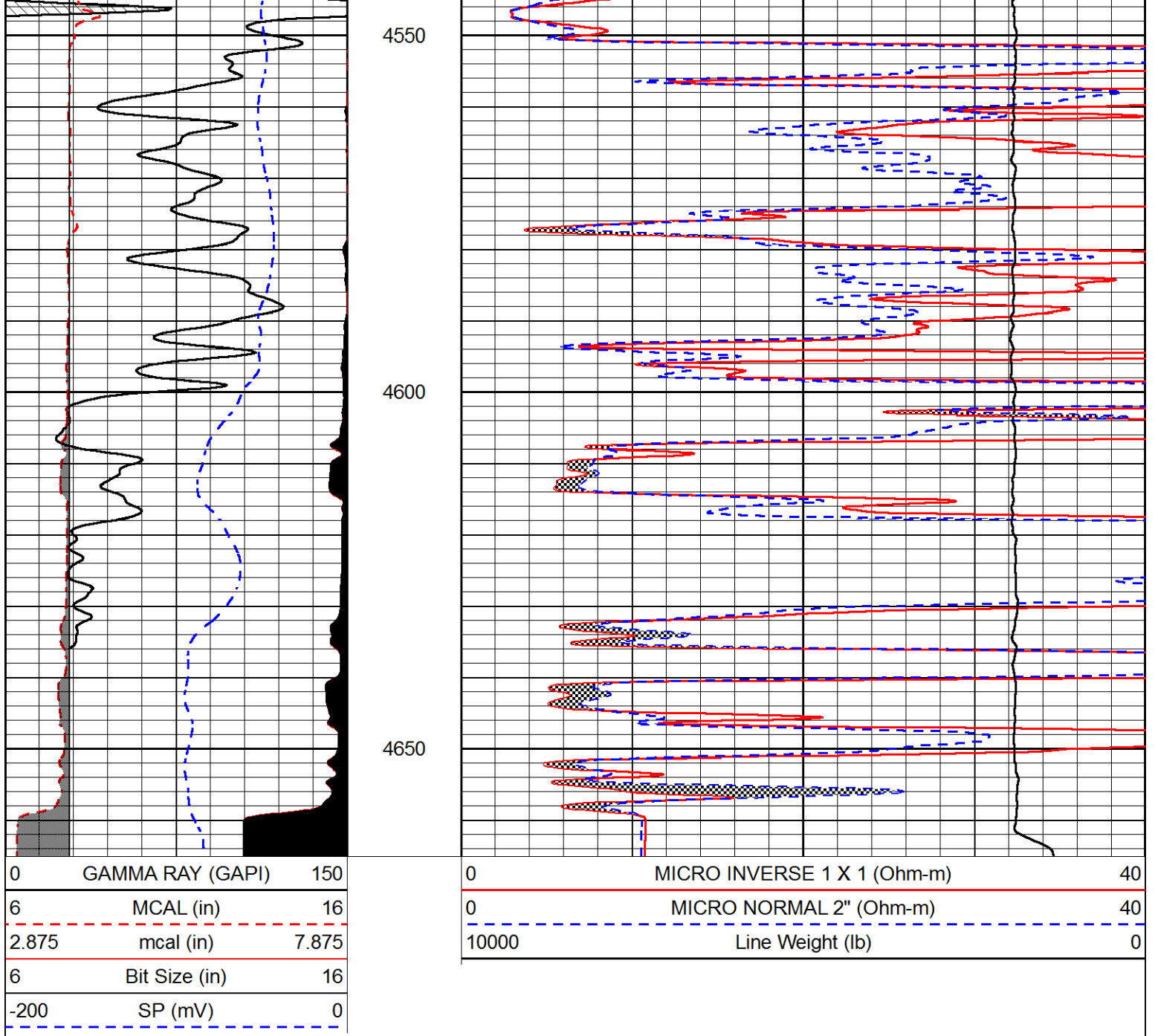
Database File bluegoose_hineman farms 1.db
 Dataset Pathname STACK/pass2.3
 Presentation Format micro
 Dataset Creation Sat Aug 25 00:57:37 2018
 Charted by Depth in Feet scaled 1:240



4450

4500





Calibration Report

Database File bluegoose_hineman farms 1.db
 Dataset Pathname STACK/pass3.3
 Dataset Creation Sat Aug 25 00:54:25 2018

Dual Induction Calibration Report

Serial-Model: 967 (HT)-PSI HIGH TEMP
 Calibration Performed: Fri Aug 24 11:15:17 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop	mmho/m	Gain	Offset
Deep	167.000	835.000	0.000	255.800	mmho/m	0.565	-16.500
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.390	-39.250

Compensated Density Calibration Report

Serial-Model:
Source / Verifier:
Master Calibration Performed:

797-152-M&W
16955B / 2ci
Tue May 01 13:38:28 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4933.40	5500.86	cps
Aluminum	2.660	g/cc	928.80	3521.29	cps
Spine Angle = 75.04			Density/Spine Ratio = 0.524		
	Size		Reading		
Small Ring	5.00	in	1.09		
Large Ring	15.00	in	1.03		

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: FRI AUG 24 10:30:30 2018

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: Fri Aug 24 11:16:10 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps

Calibration Report

Database File bluegoose_hineman farms 1.db
Dataset Pathname MEL/pass2
Dataset Creation Sat Aug 25 02:32:18 2018

Microlog Calibration Report

Serial-Model: ARM001-Armadillo
Performed: Fri Jul 14 14:07:44 2017

	Readings			References			Results	
	Zero	Cal	V	Zero	Cal		m	b
Normal	0.0127	0.6730	V	0.0000	10.0000	Ohm-m	25.5000	-2.4000
Inverse	0.0029	0.8729	V	0.0000	10.0000	Ohm-m	22.0000	-1.5000
Caliper	1.1319	8.2966	V	6.0000	19.0000	in	3.0000	1.2750



PIONEER

Pioneer Energy Services

Company	BLUE GOOSE DRILLING CO., INC.
Well	HINEMAN FARMS #1
Field	WILDCAT
County	LANE
State	KANSAS



DUAL COMP POROSITY LOG

Pioneer Energy Services

Company **BLUE GOOSE DRILLING CO., INC.**
 Well **HINEMAN FARMS #1**
 Field **WILDCAT**
 County **LANE** State **KANSAS**

Company **BLUE GOOSE DRILLING CO., INC.**
 Well **HINEMAN FARMS #1**
 Field **WILDCAT**
 County **LANE**
 State **KANSAS**

Location: **API #: 15-101-22609-00-00**
NE NE NW
330' FNL & 2310' FWL
SEC 16 TWP 18S RGE 27W
 Permanent Datum **GROUND LEVEL Elevation 2691'**
 Log Measured From **KELLY BUSHING**
 Drilling Measured From **KELLY BUSHING**
 Other Services **DIL/MEL**
 Elevation **K.B. 2701'**
D.F. N/A
G.L. 2691'

Date	8/25/2018						
Run Number	ONE						
Type Log	CNL/CDL						
Depth Driller	4660'						
Depth Logger	4662'						
Bottom Logged Interval	4641'						
Top Logged Interval	3600'						
Type Fluid In Hole	CHEMICAL						
Salinity, PPM CL	3100						
Density	9.2						
Level	FULL						
Max. Rec. Temp. F	123						
Operating Rig Time	4 HOURS						
Equipment -- Location	91 HAYS						
Recorded By	D. SCHMIDT						
Witnessed By	KEN WALLACE						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	261'	8.625"	23#	0'	261'
TWO	7.875"	261'		TD			
Casing Record							

<<< 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.

DIGHTON,
 6 EAST TO TURKEY RED RD, 1 NORTH TO TB,
 WEST INTO

Log Measured From: **KELLY BUSHING** 10 Ft. Above Permanent Datum

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

<p>Your Pioneer Energy Services Crew</p> <p>Engineer: D. SCHMIDT Operator: Operator: Operator:</p>	<p>This Log Record Was Witnessed By</p> <p>Primary Witness: KEN WALLACE Secondary Witness: Secondary Witness: Secondary Witness:</p>
--	--

Log Variables

Database C:\ProgramData\Warrior\Data\bluegoose_hineman farms 1.db
 Dataset field/well/STACK/pass3.3/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	337	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	4660	123	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	29.90 29.15		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	20.85 20.83 20.35		CDL-M&W (797-152)	8.50	4.00	250.00
RLL3F RLL3	15.80 15.80					
CILD	8.00		DIL-PSI HIGH TEMP (967 (HT))	18.50	3.50	220.00

CILM 4.70

SP 0.20

Dataset: bluegoose_hineman farms 1.db: field/well/STACK/pass3.3
 Total length: 35.50 ft
 Total weight: 620.00 lb
 O.D.: 4.00 in



MAIN PASS

Database File bluegoose_hineman farms 1.db
 Dataset Pathname STACK/pass3.1
 Presentation Format cdl
 Dataset Creation Sat Aug 25 01:24:44 2018
 Charted by Depth in Feet scaled 1:600

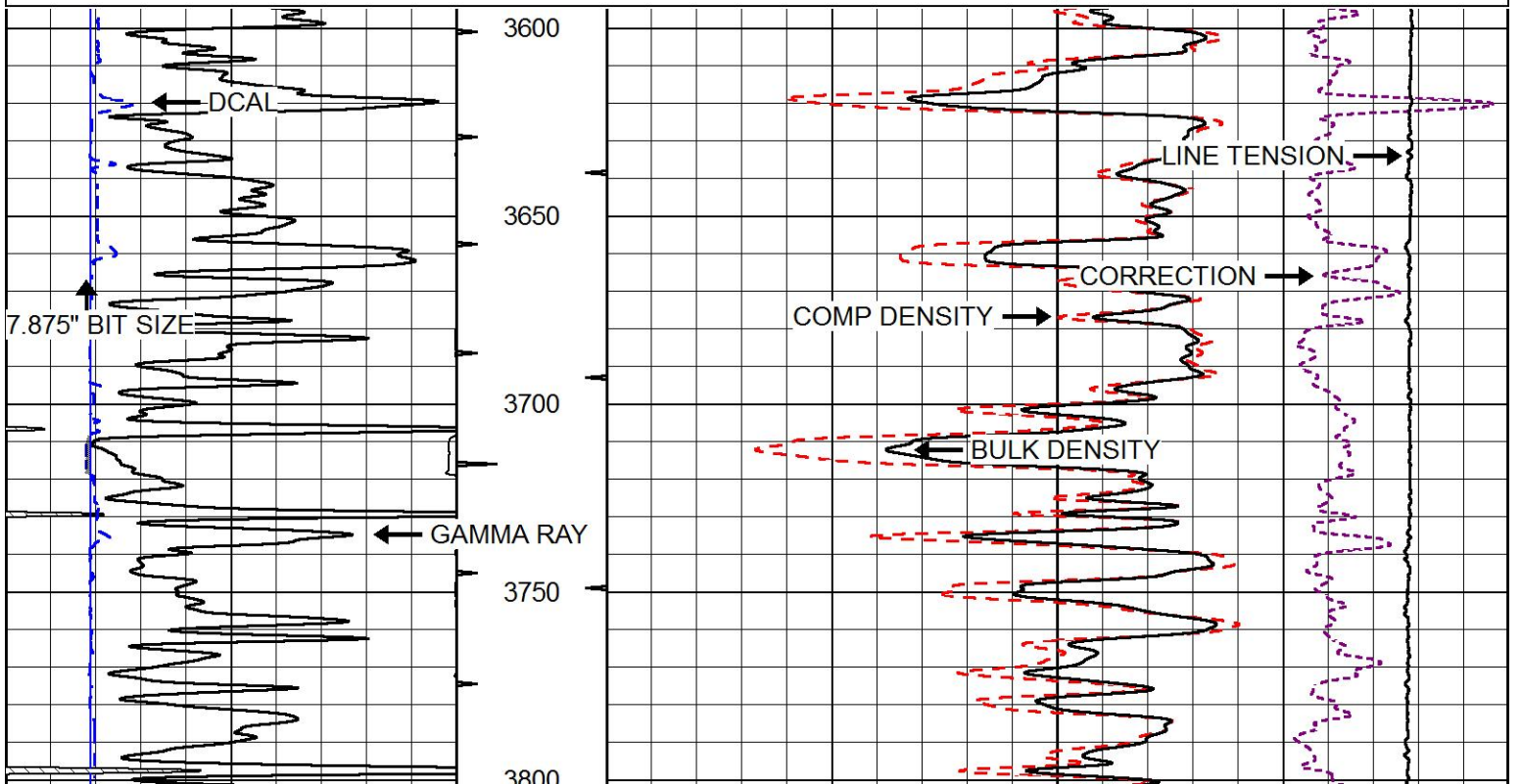
0	GAMMA RAY (GAPI)	150
6	DCAL (in)	16

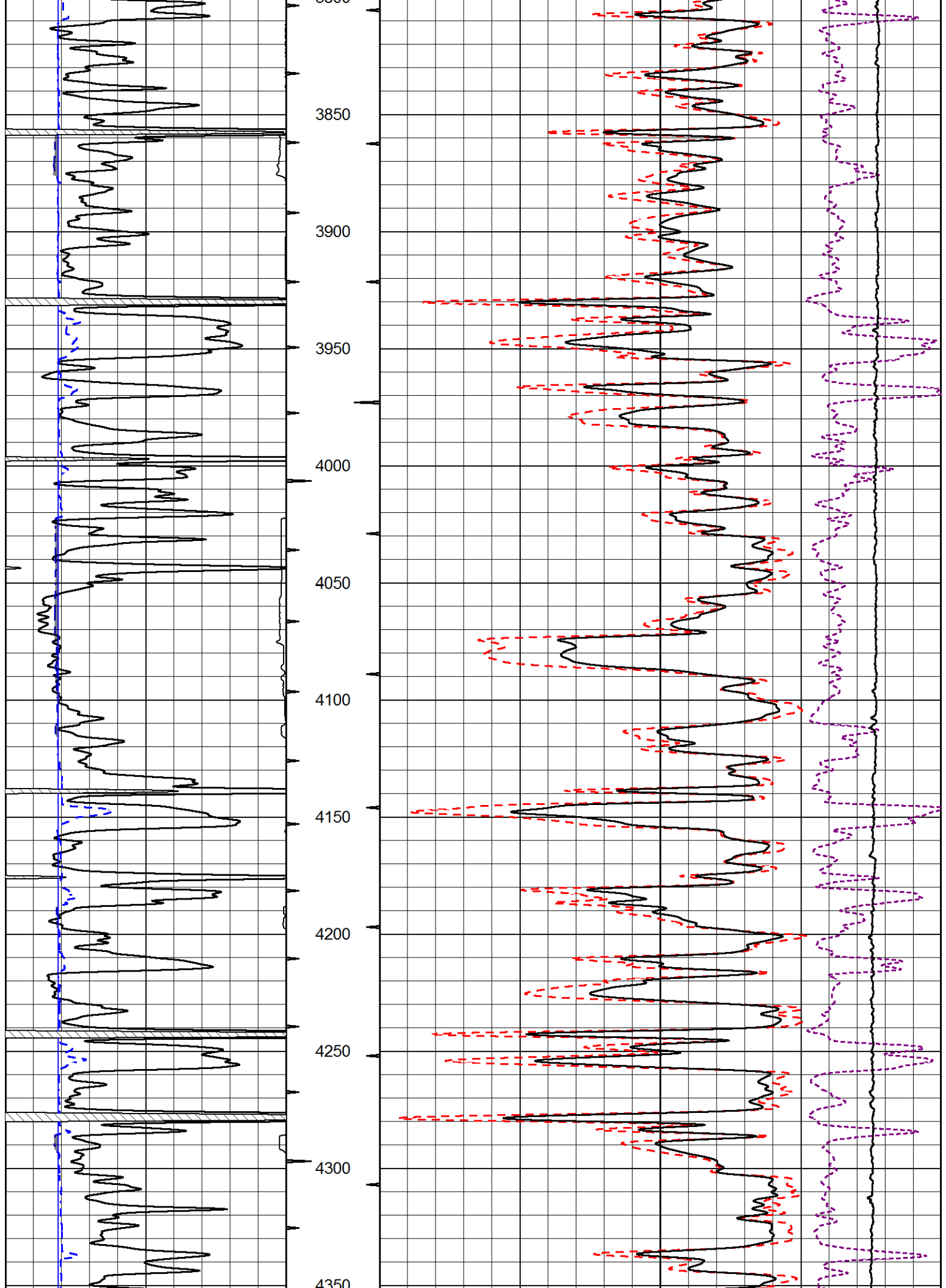
COMPENSATED DENSITY (2.71 MA)	
30	(pu) -10

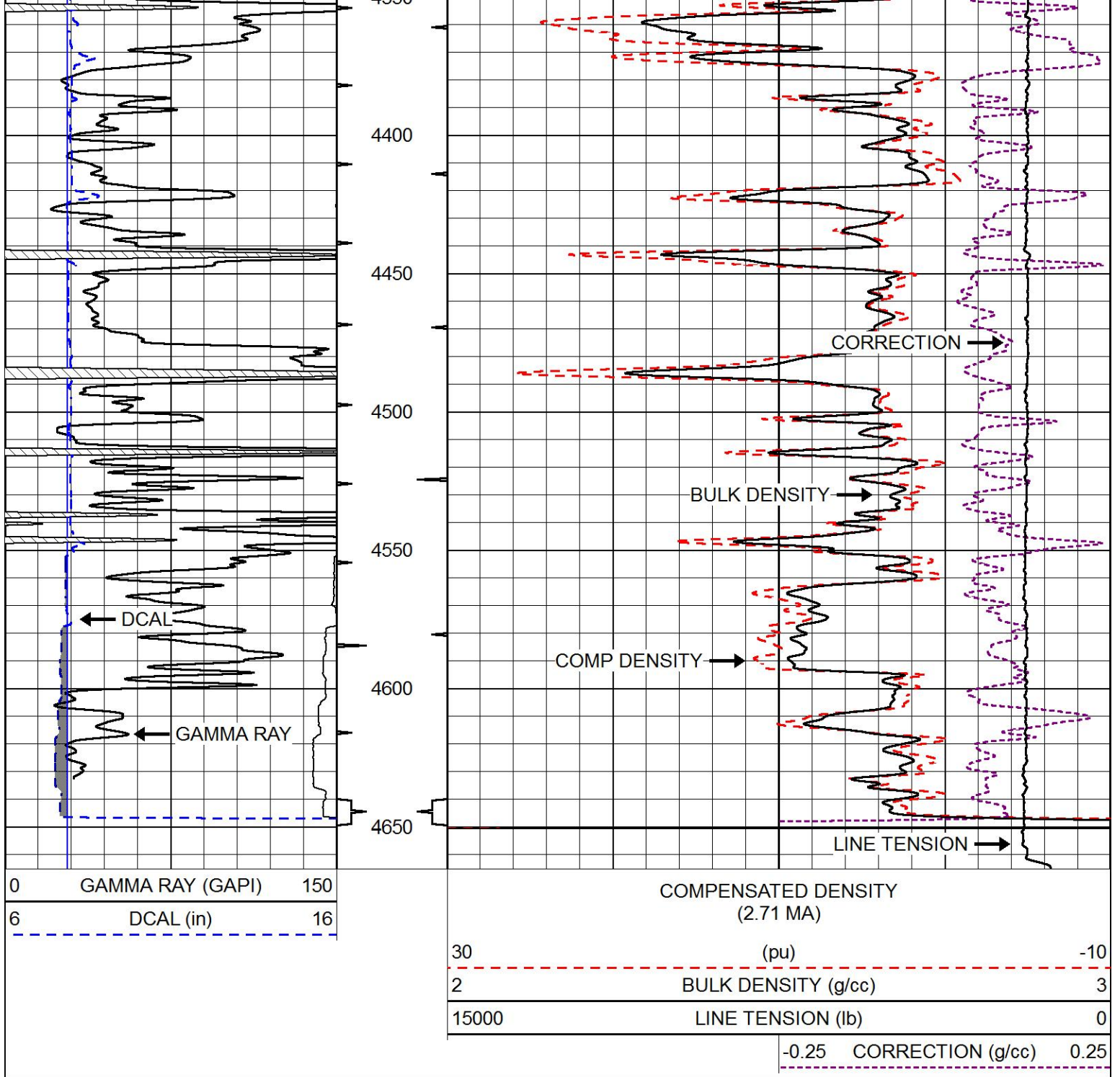
2	BULK DENSITY (g/cc) 3

15000	LINE TENSION (lb) 0

-0.25	CORRECTION (g/cc) 0.25

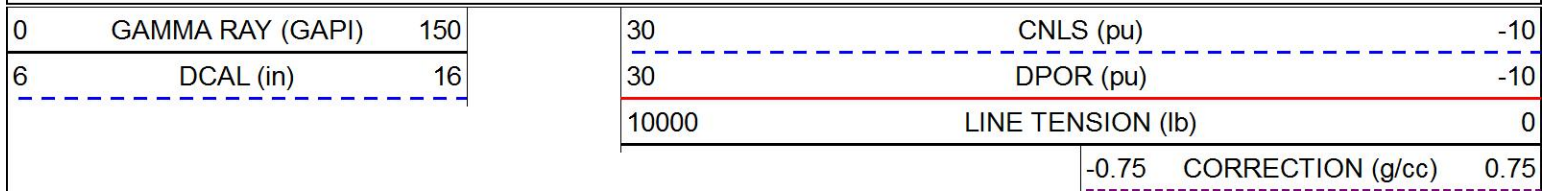


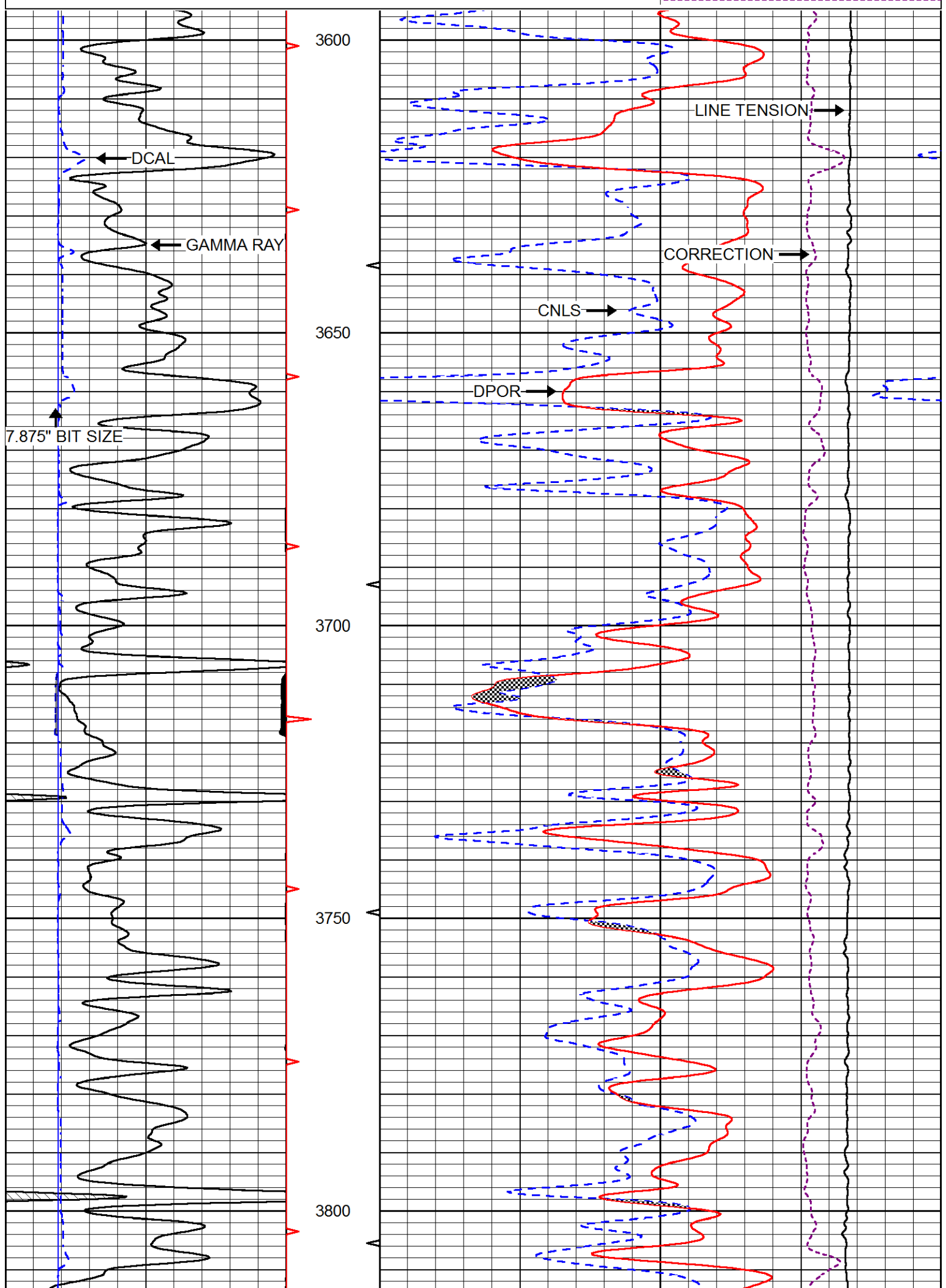


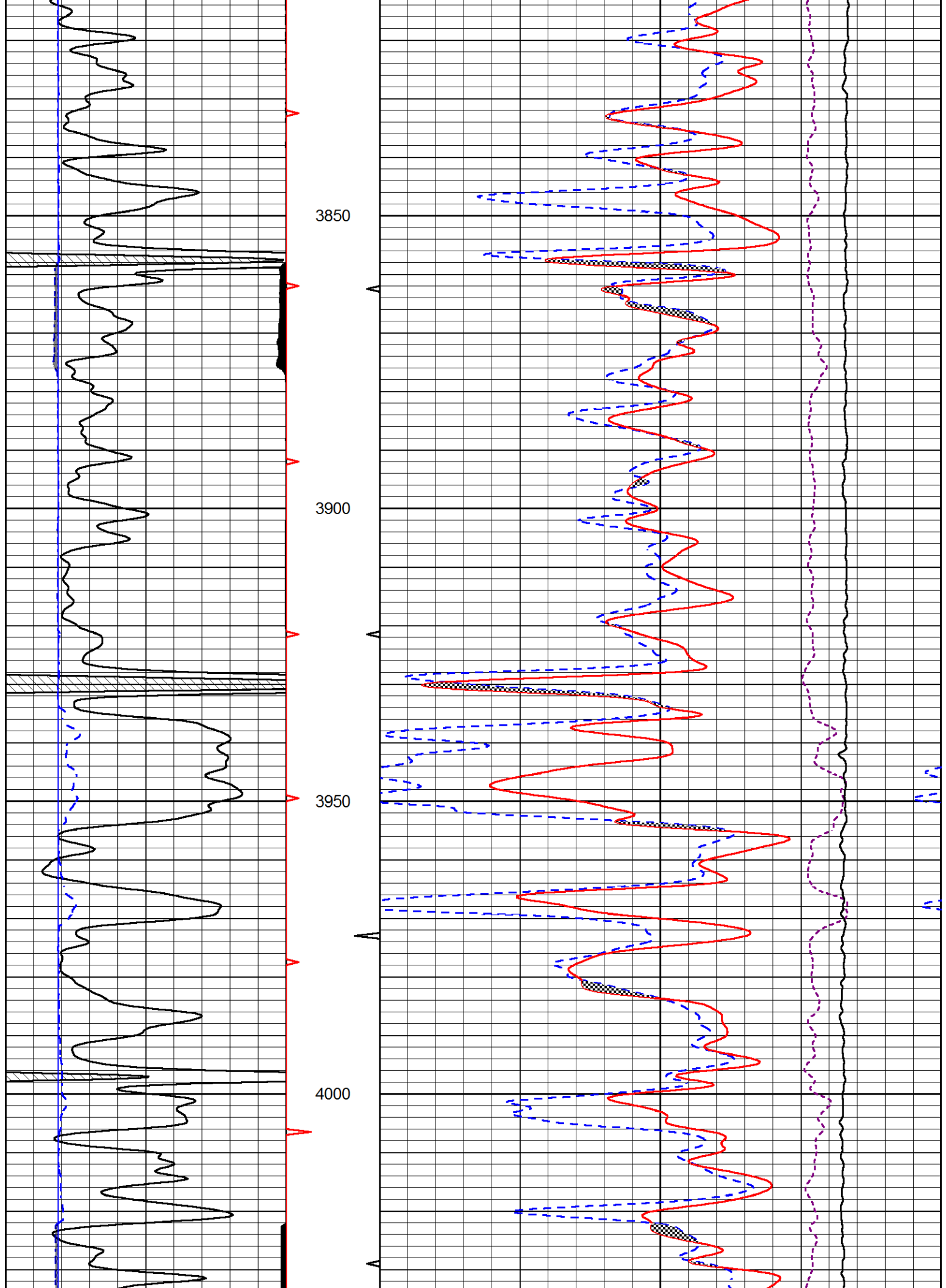


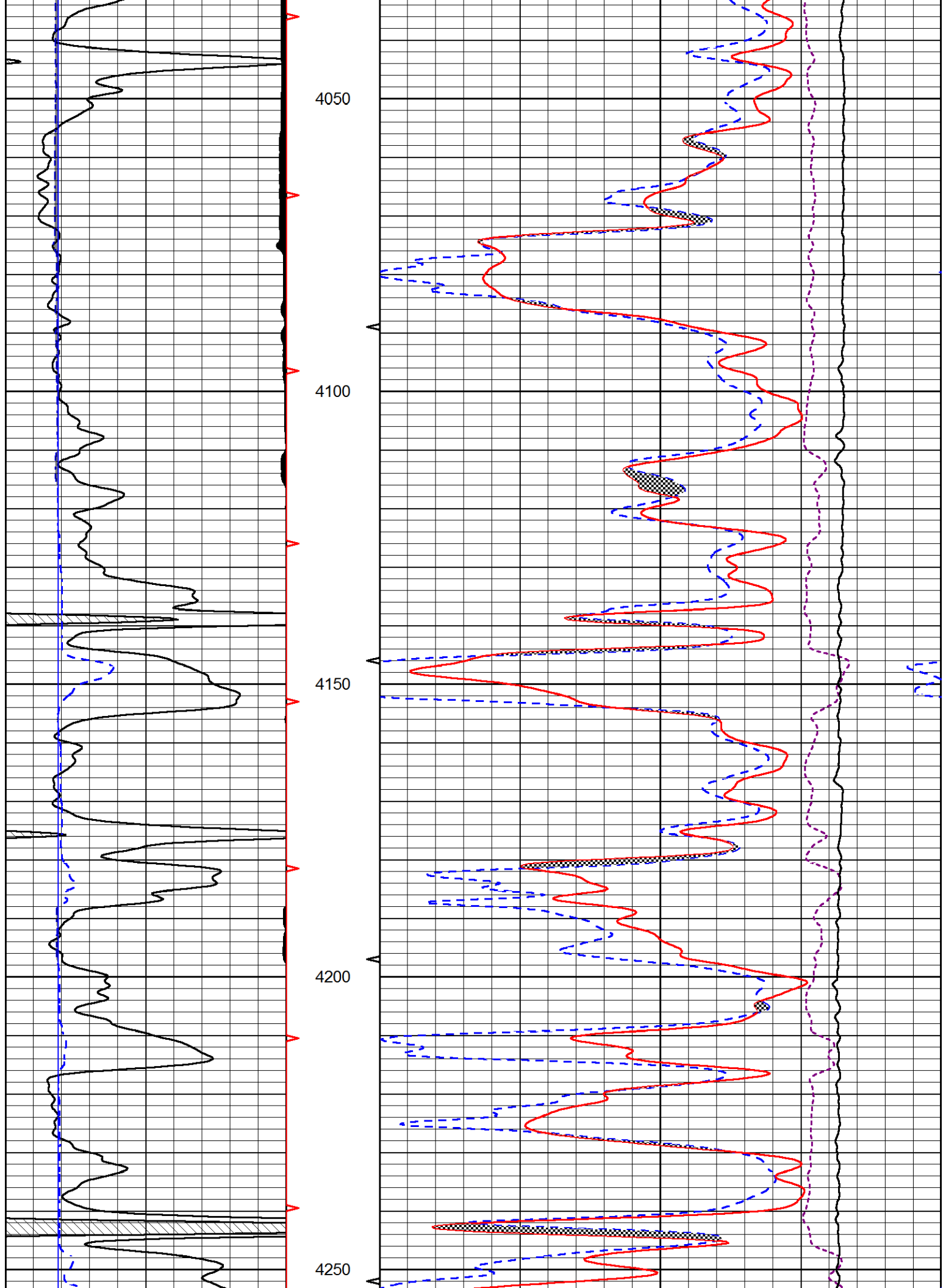
MAIN PASS

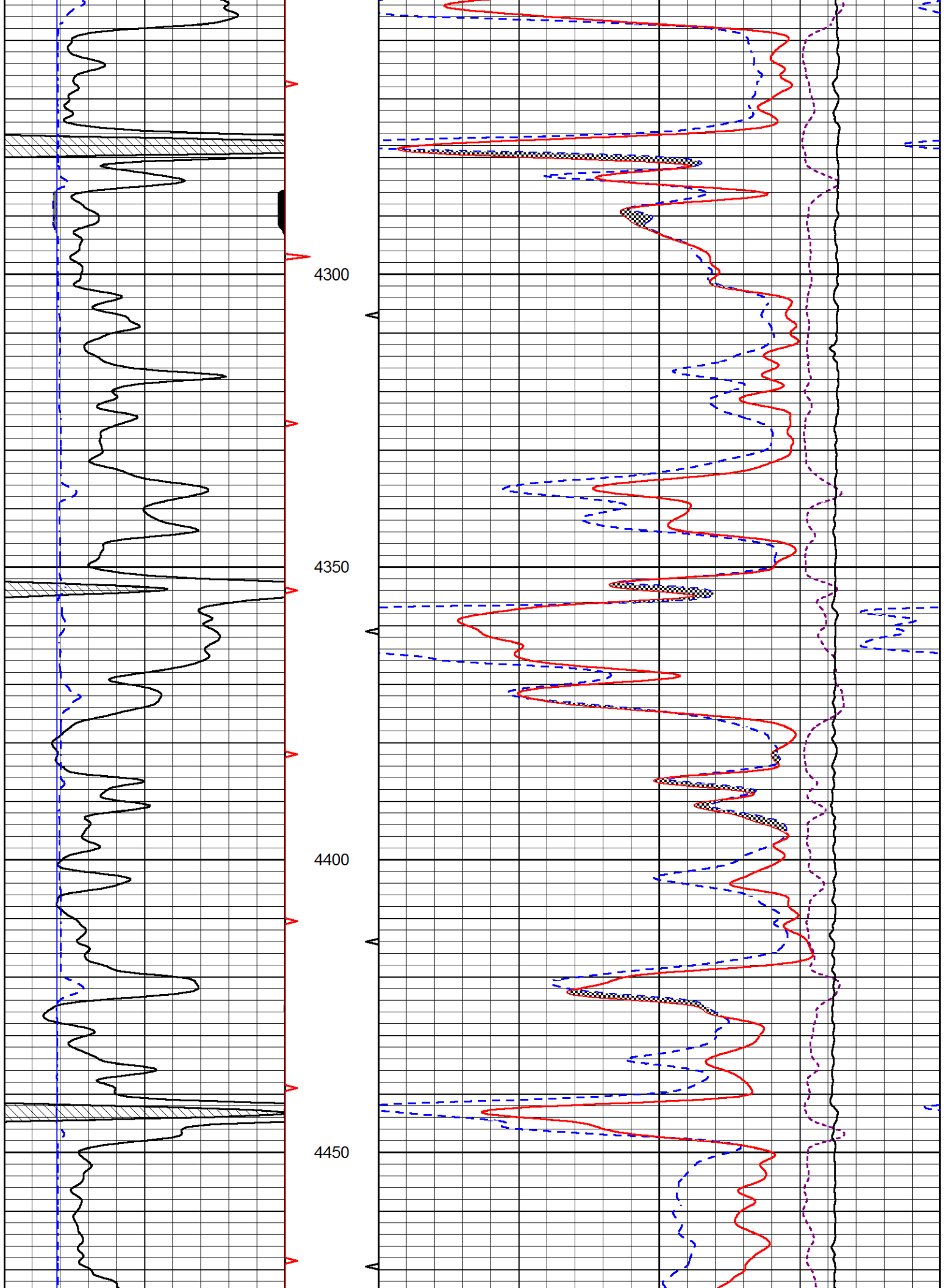
Database File bluegoose_hineman farms 1.db
 Dataset Pathname STACK/pass3.1
 Presentation Format cndlspec
 Dataset Creation Sat Aug 25 01:24:44 2018
 Charted by Depth in Feet scaled 1:240

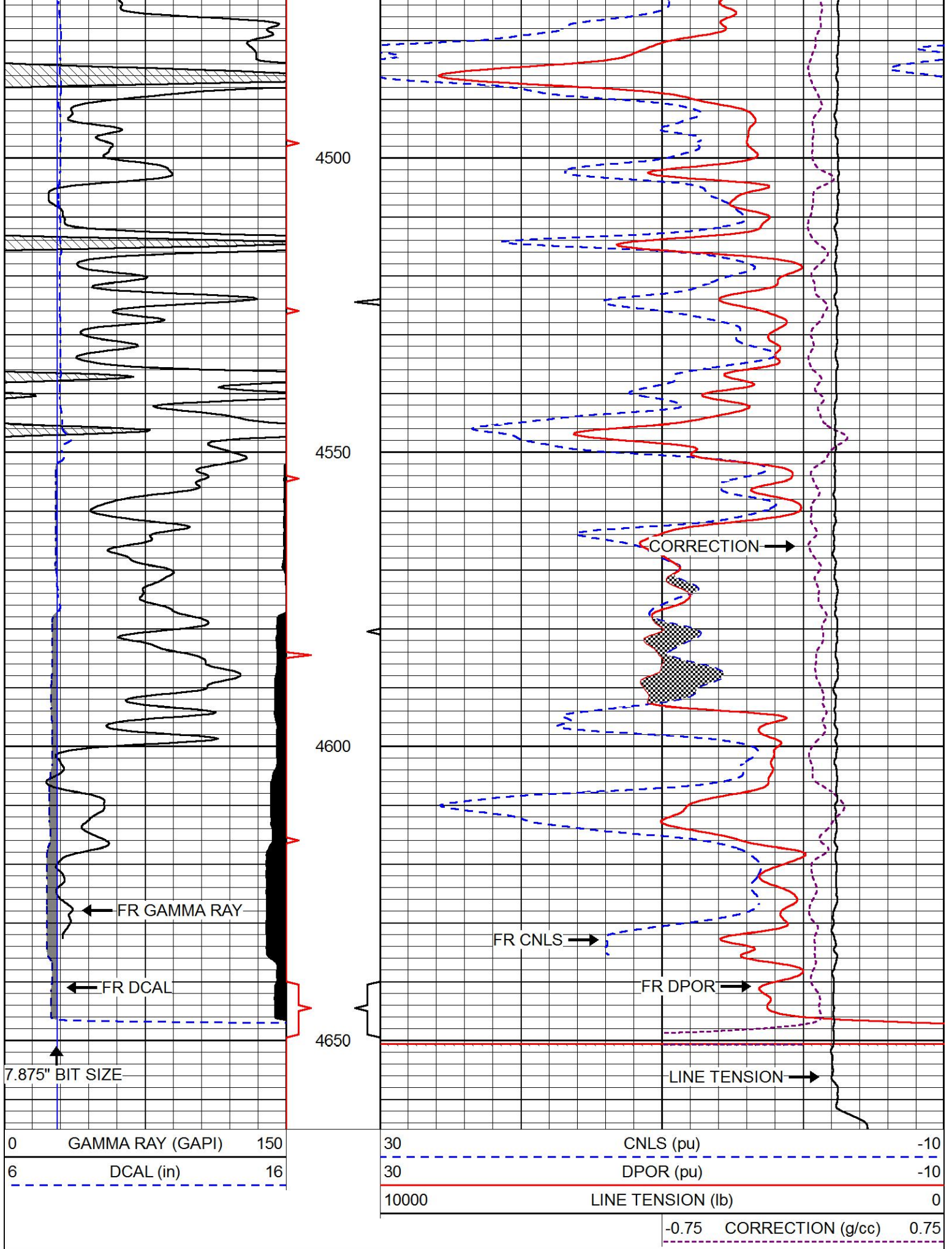










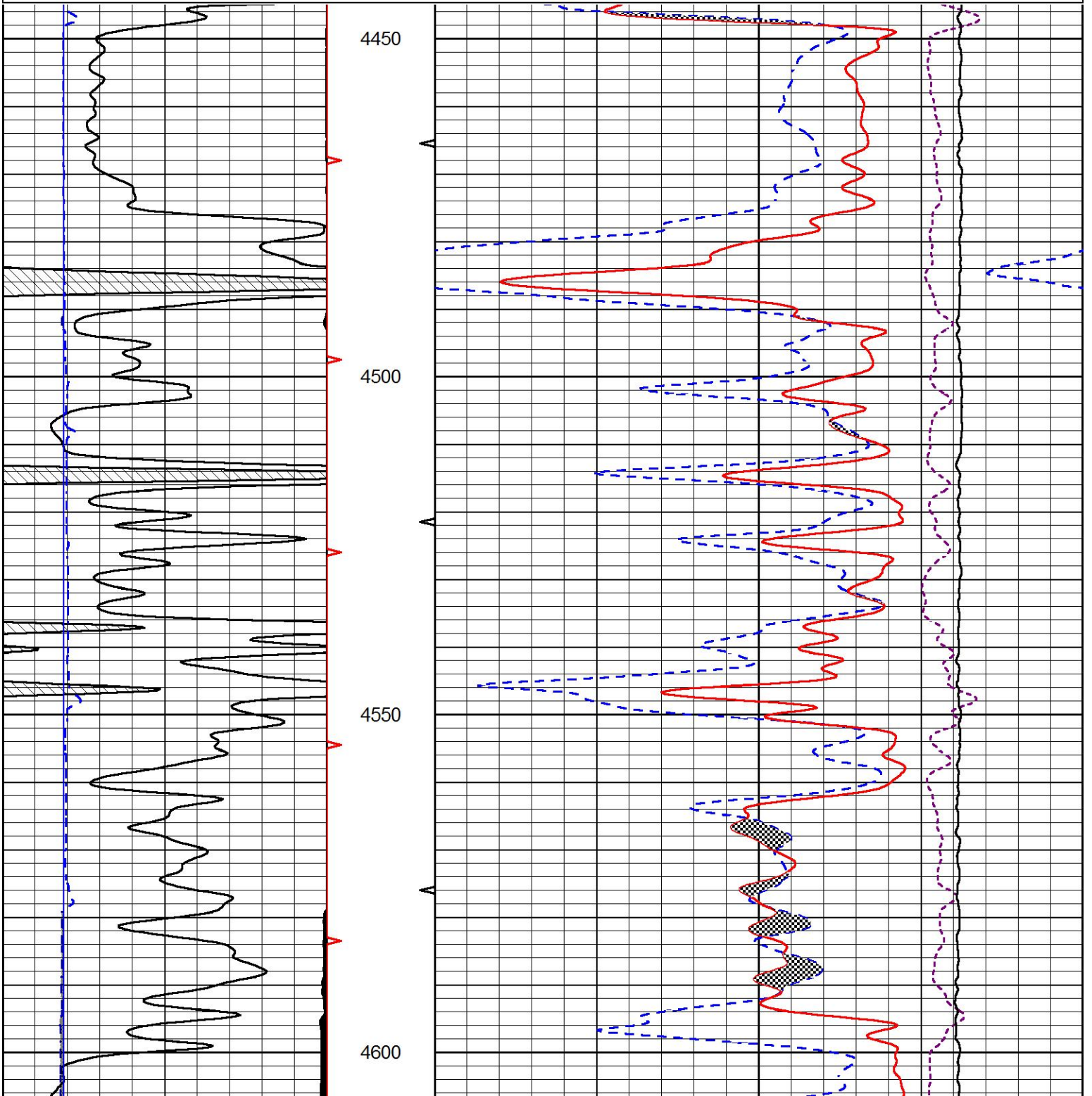


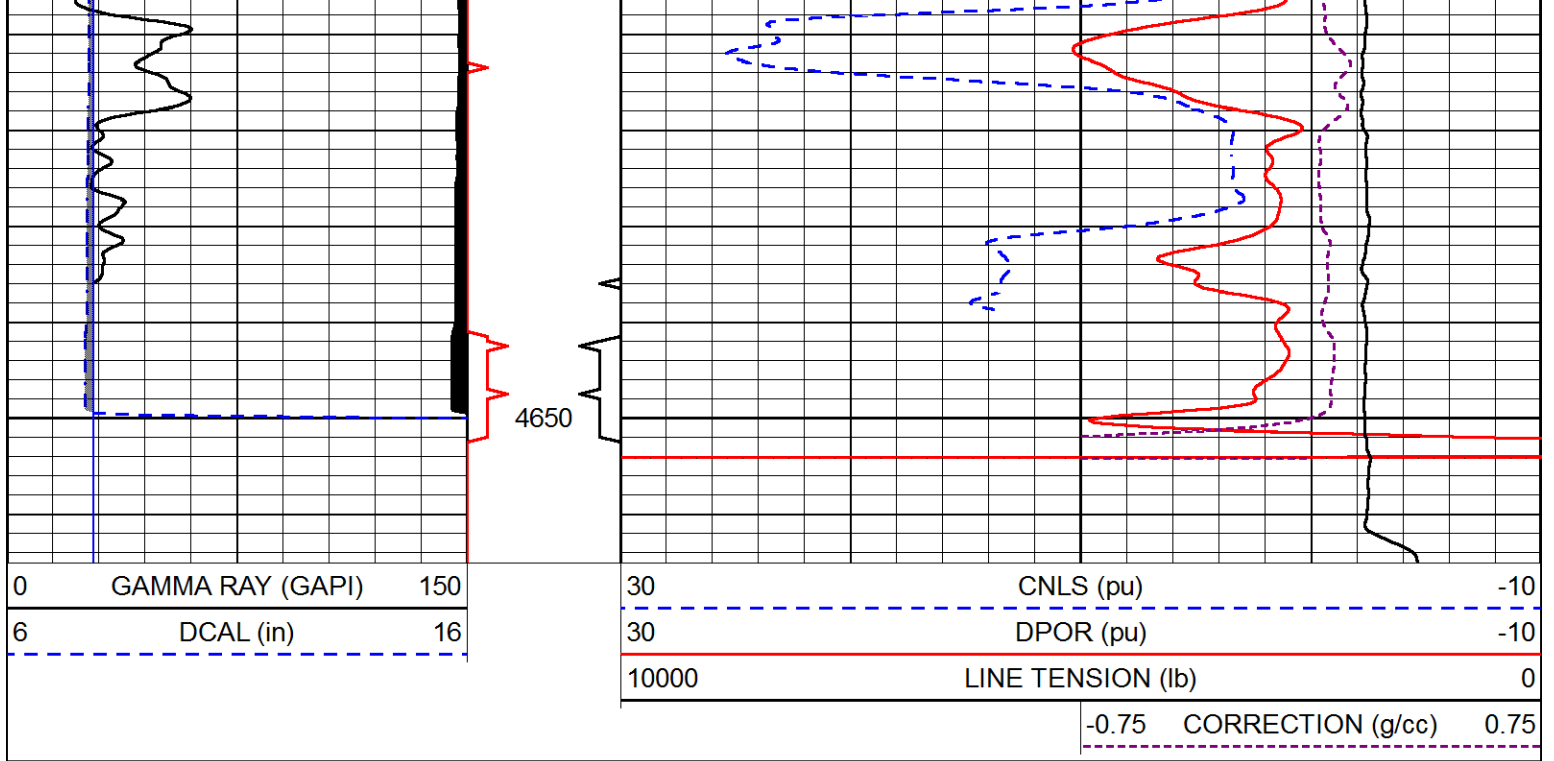
REPEAT SECTION

Database File bluegoose_hineman farms 1.db
 Dataset Pathname STACK/pass2.3
 Presentation Format cndlspec
 Dataset Creation Sat Aug 25 00:57:37 2018
 Charted by Depth in Feet scaled 1:240

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

30	CNLS (pu)	-10
30	DPOR (pu)	-10
10000	LINE TENSION (lb)	0
-0.75	CORRECTION (g/cc)	0.75





Calibration Report

Database File bluegoose_hineman farms 1.db
 Dataset Pathname STACK/pass3.3
 Dataset Creation Sat Aug 25 00:54:25 2018

Dual Induction Calibration Report

Serial-Model: 967 (HT)-PSI HIGH TEMP
 Calibration Performed: Fri Aug 24 11:15:17 2018

Loop:	Readings		References		Results		
	Air	Loop	Air	Loop	Gain	Offset	
Deep	167.000	835.000	0.000	255.800	mmho/m	0.565	-16.500
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.390	-39.250

Compensated Density Calibration Report

Serial-Model: 797-152-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Tue May 01 13:38:28 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4933.40	5500.86	cps
Aluminum	2.660	g/cc	928.80	3521.29	cps
Spine Angle = 75.04			Density/Spine Ratio = 0.524		
	Size		Reading		
Small Ring	5.00	in	1.09		
Large Ring	15.00	in	1.03		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: FRI AUG 24 10:30:30 2018

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: Fri Aug 24 11:16:10 2018

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 BLUE GOOSE DRILLING CO., INC.
 Well HINEMAN FARMS #1
 Field WILDCAT
 County LANE
 State KANSAS



PIONEER
Pioneer Energy Services

**DUAL INDUCTION
LOG**

Company **BLUE GOOSE DRILLING CO., INC.**
Well **HINEMAN FARMS #1**
Field **WILDCAT**
County **LANE** State **KANSAS**

Location: API #: 15-101-22609-00-00
NE NE NW
330' FNL & 2310' FWL
SEC 16 TWP 18S RGE 27W
Permanent Datum **GROUND LEVEL Elevation 2691'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Other Services
**CNL/CDL
MEL**

Elevation
K.B. 2701'
D.F. N/A
G.L. 2691'

Date	8/25/2018
Run Number	ONE
Depth Driller	4660'
Depth Logger	4662'
Bottom Logged Interval	4661'
Top Log Interval	250'
Casing Driller	8.625" @ 261'
Casing Logger	259'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	3100
Density / Viscosity	9.2 74
pH / Fluid Loss	10.0 8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.70 @ 67
Rmt @ Meas. Temp	0.53 @ 67
Rmc @ Meas. Temp	0.95 @ 67
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.38 @ 123
Operating Rig Time	4 HOURS
Max Rec. Temp. F	123
Equipment Number	91
Location	HAYS
Recorded By	D. SCHMIDT
Witnessed By	KEN WALLACE

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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.

**DIGHTON,
6 EAST TO TURKEY RED RD, 1 NORTH TO TB,
WEST INTO**

Log Measured From: KELLY BUSHING 10 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: KEN WALLACE
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

Database C:\ProgramData\Warrior\Data\bluegoose_hineman farms 1.db
 Dataset field/well/STACK/pass3.3/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	337	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	4660	123	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	29.90 29.15		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	20.85 20.83 20.35		CDL-M&W (797-152)	8.50	4.00	250.00
RLL3F RLL3	15.80 15.80					
CILD	8.00		DIL-PSI HIGH TEMP (967 (HT))	18.50	3.50	220.00

CILM 4.70

SP 0.20

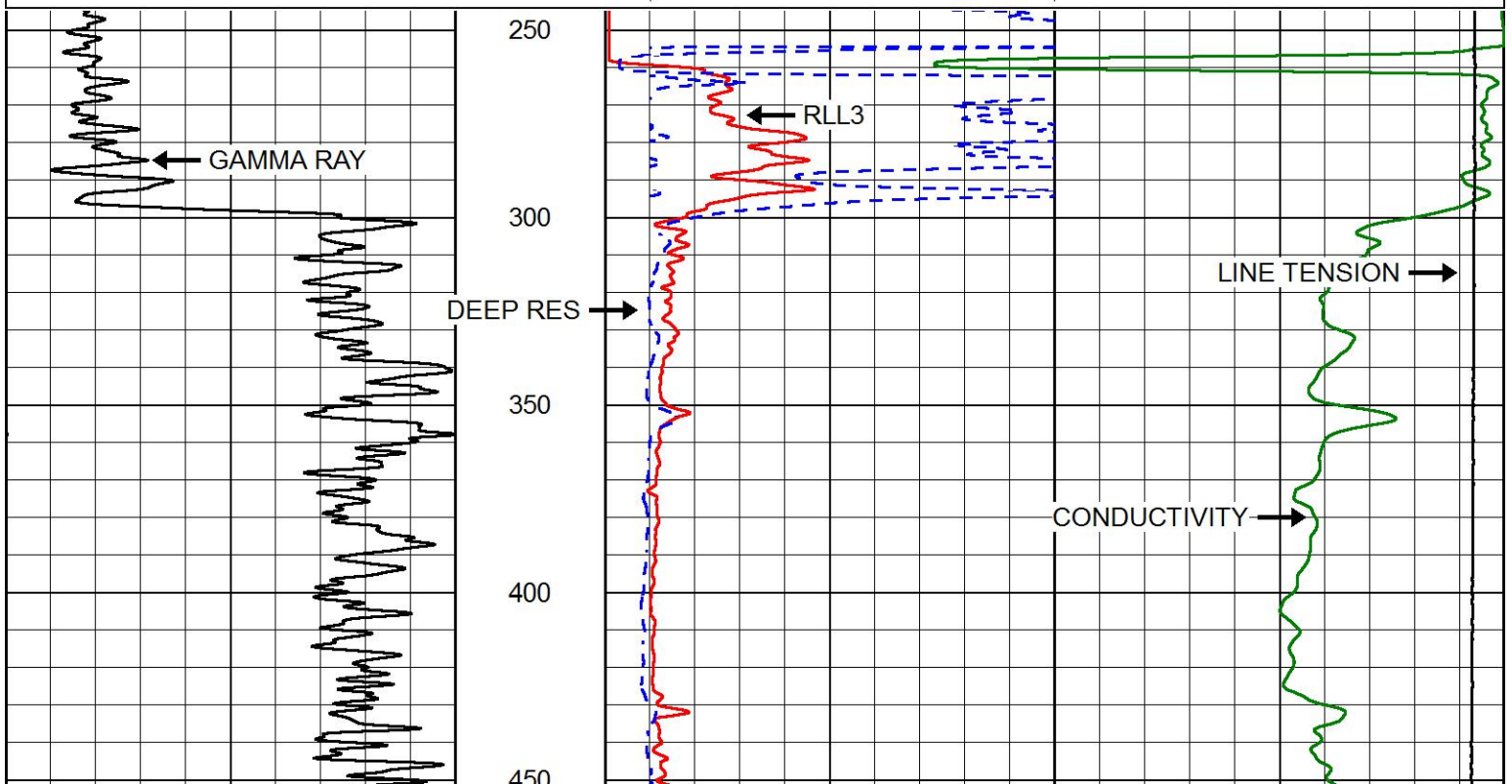
Dataset: bluegoose_hineman farms 1.db: field/well/STACK/pass3.3
 Total length: 35.50 ft
 Total weight: 620.00 lb
 O.D.: 4.00 in

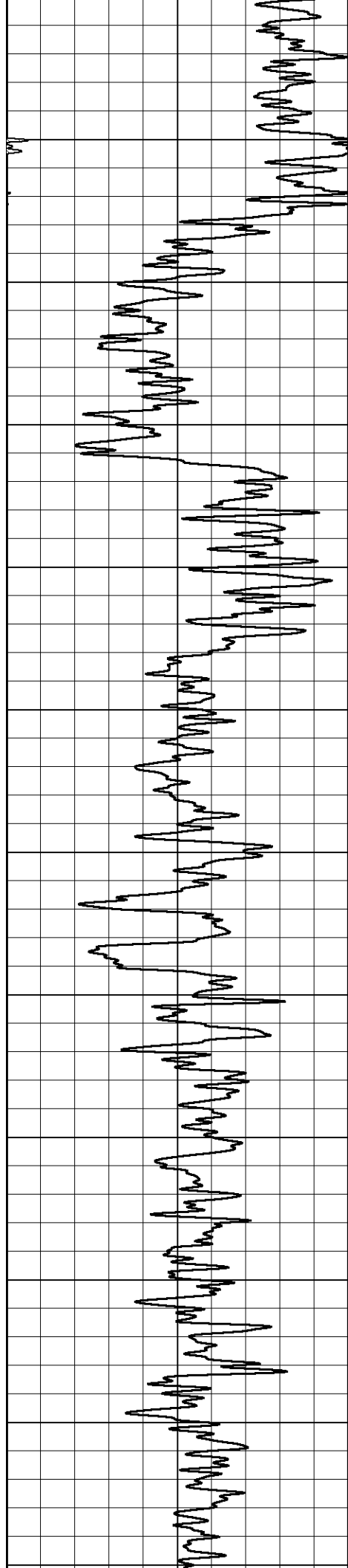


MAIN PASS

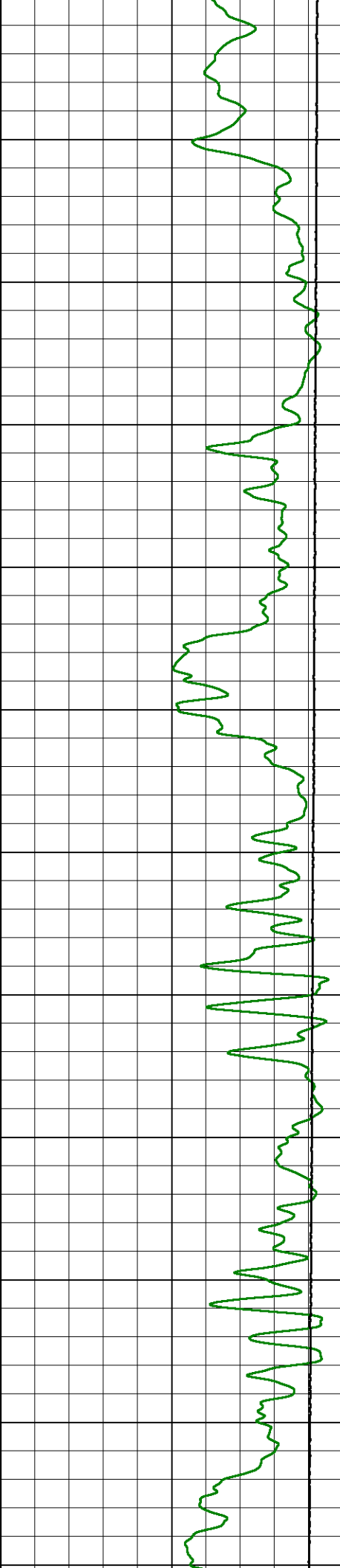
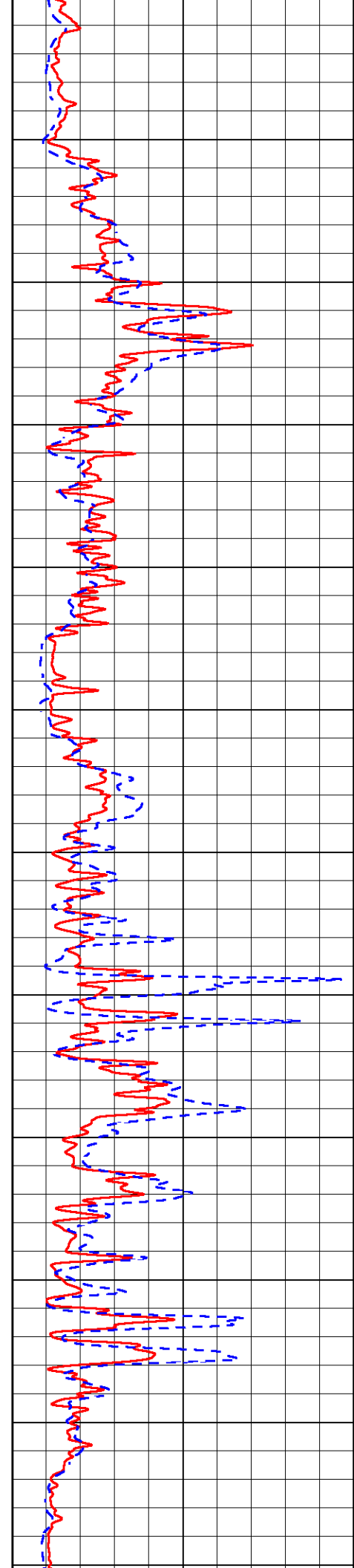
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 Presentation Format dil2in
 Dataset Creation Sat Aug 25 01:54:11 2018
 Charted by Depth in Feet scaled 1:600

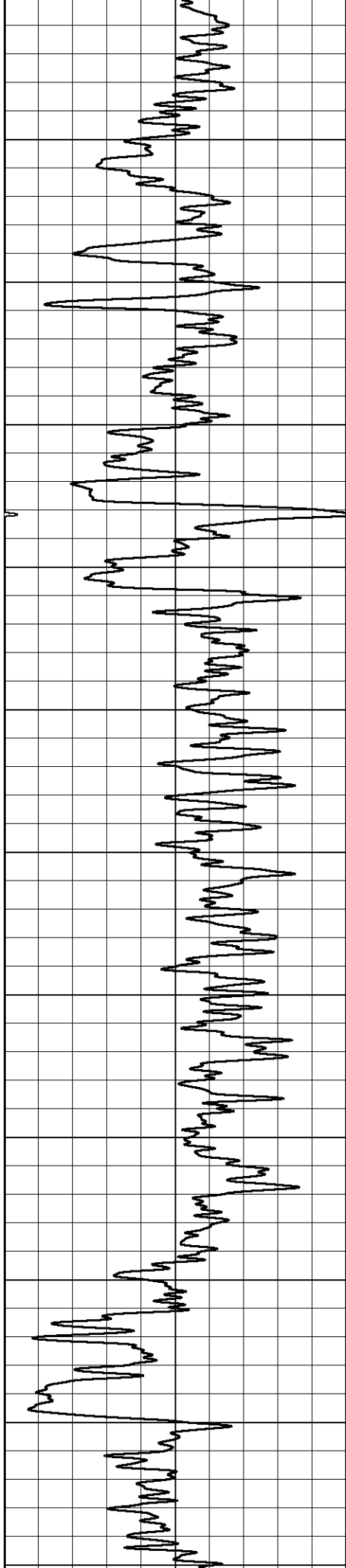
GAMMA RAY (GAPI) 0 150	1000 CONDUCTIVITY (mmho/m) 0
	15000 Line Tension (lb) 0
	0 RLL3 (Ohm-m) 50
	0 DEEP RESISTIVITY (Ohm-m) 50
	50 RLL3 (Ohm-m) 500
	50 Deep Resistivity (Ohm-m) 500



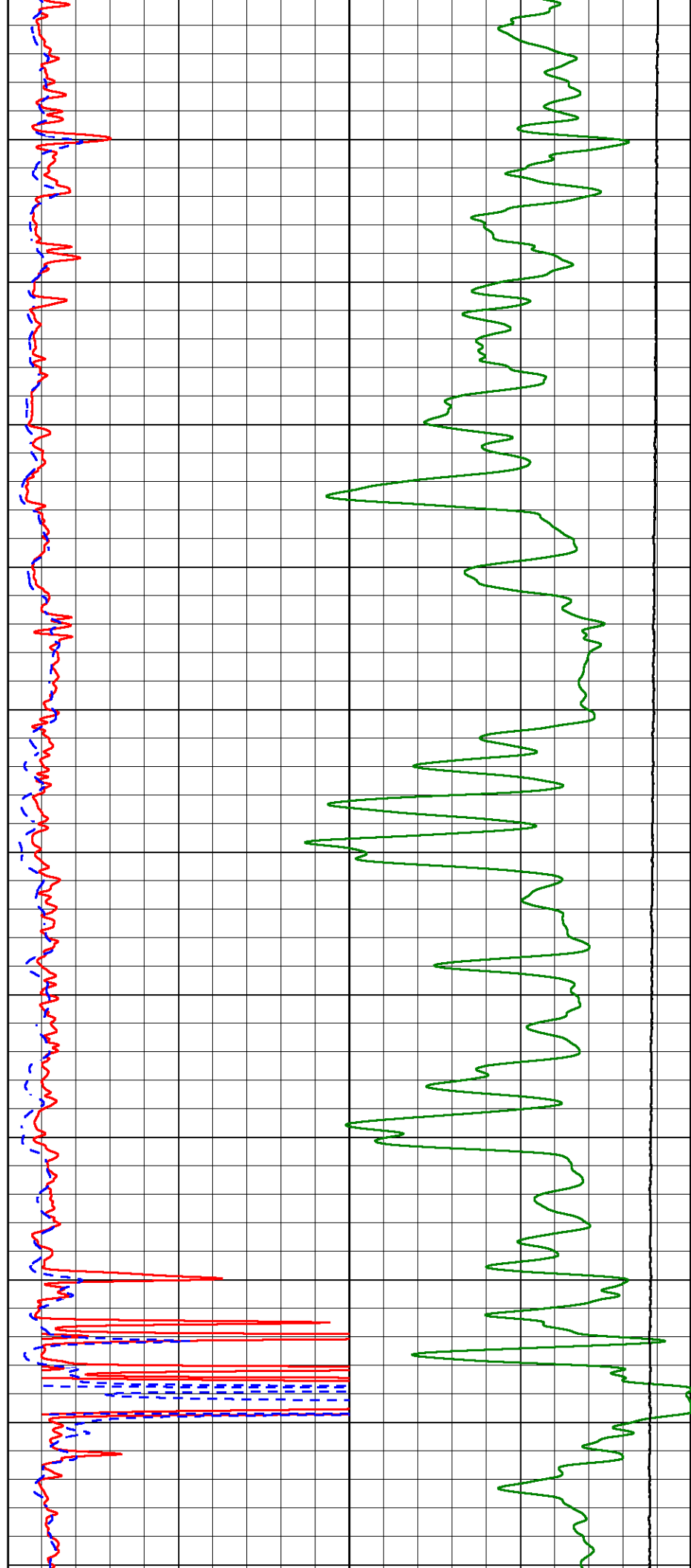


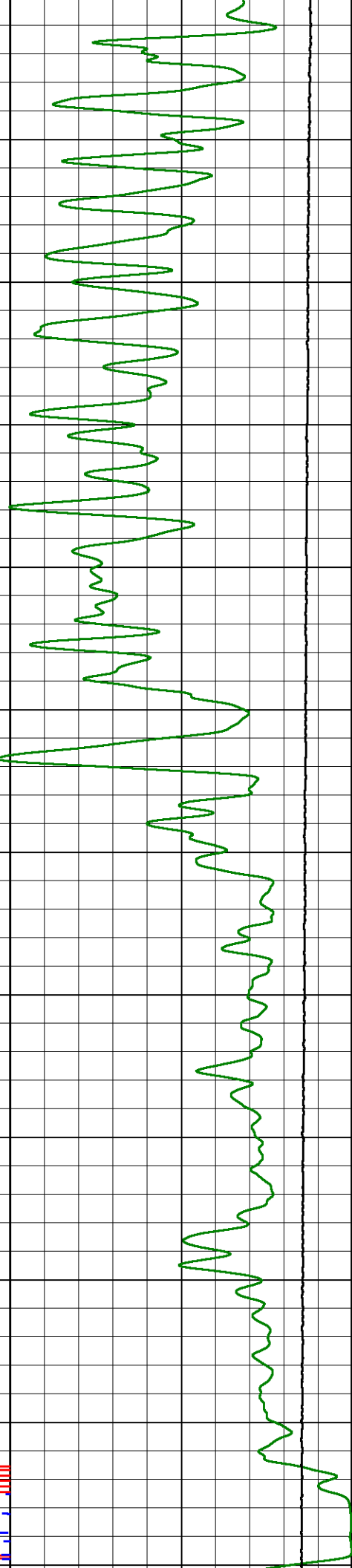
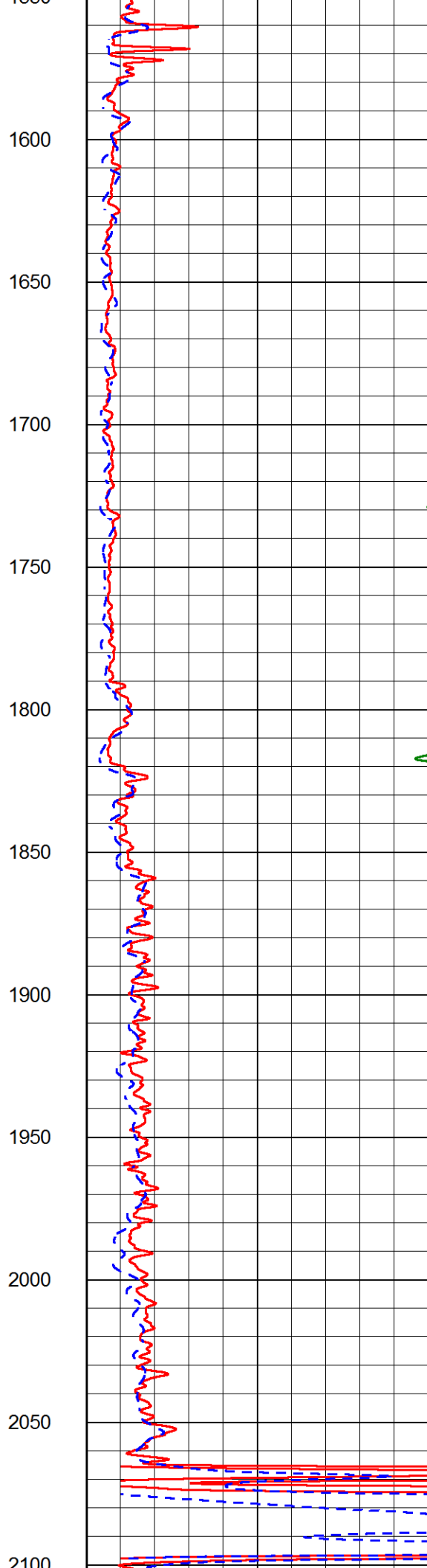
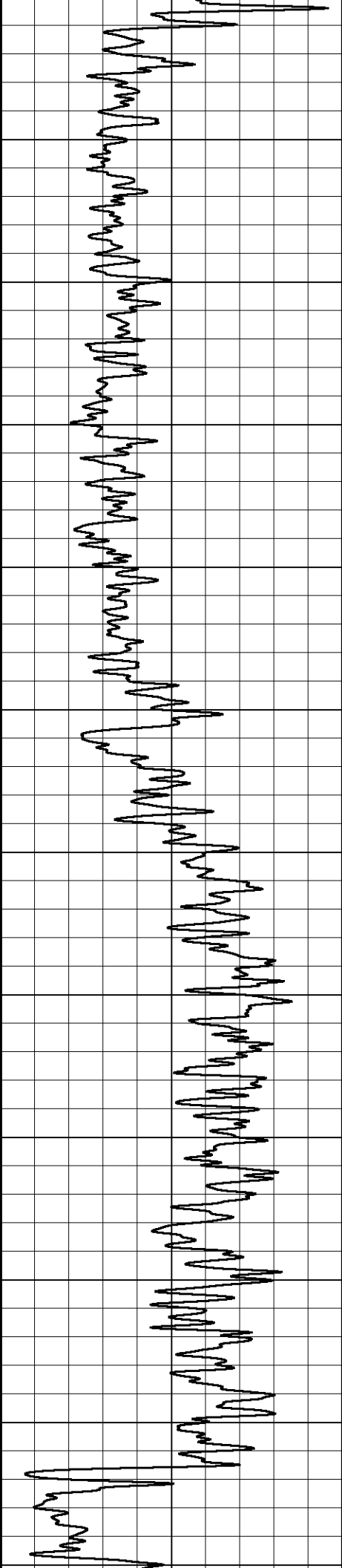
100
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750
800
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900
950
1000

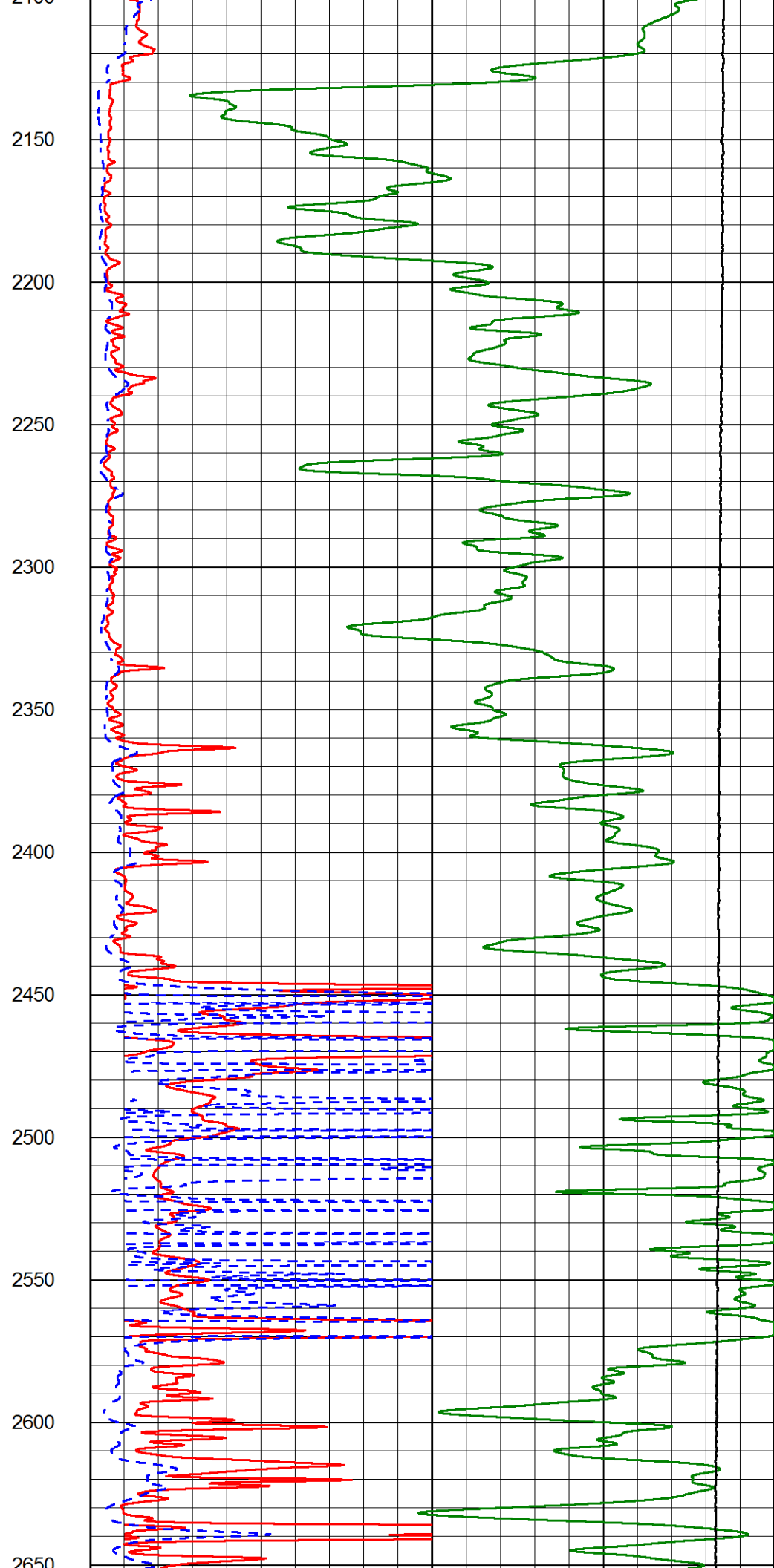
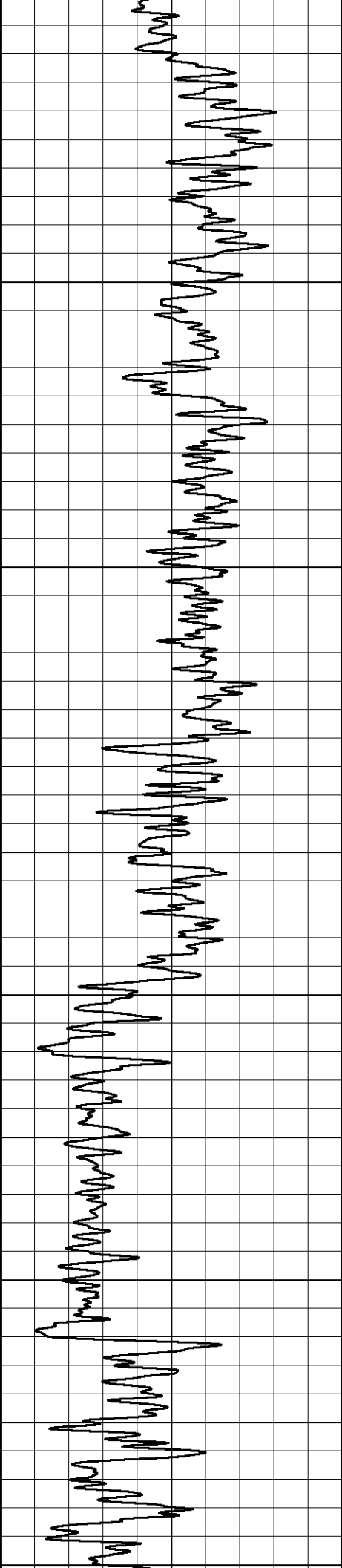


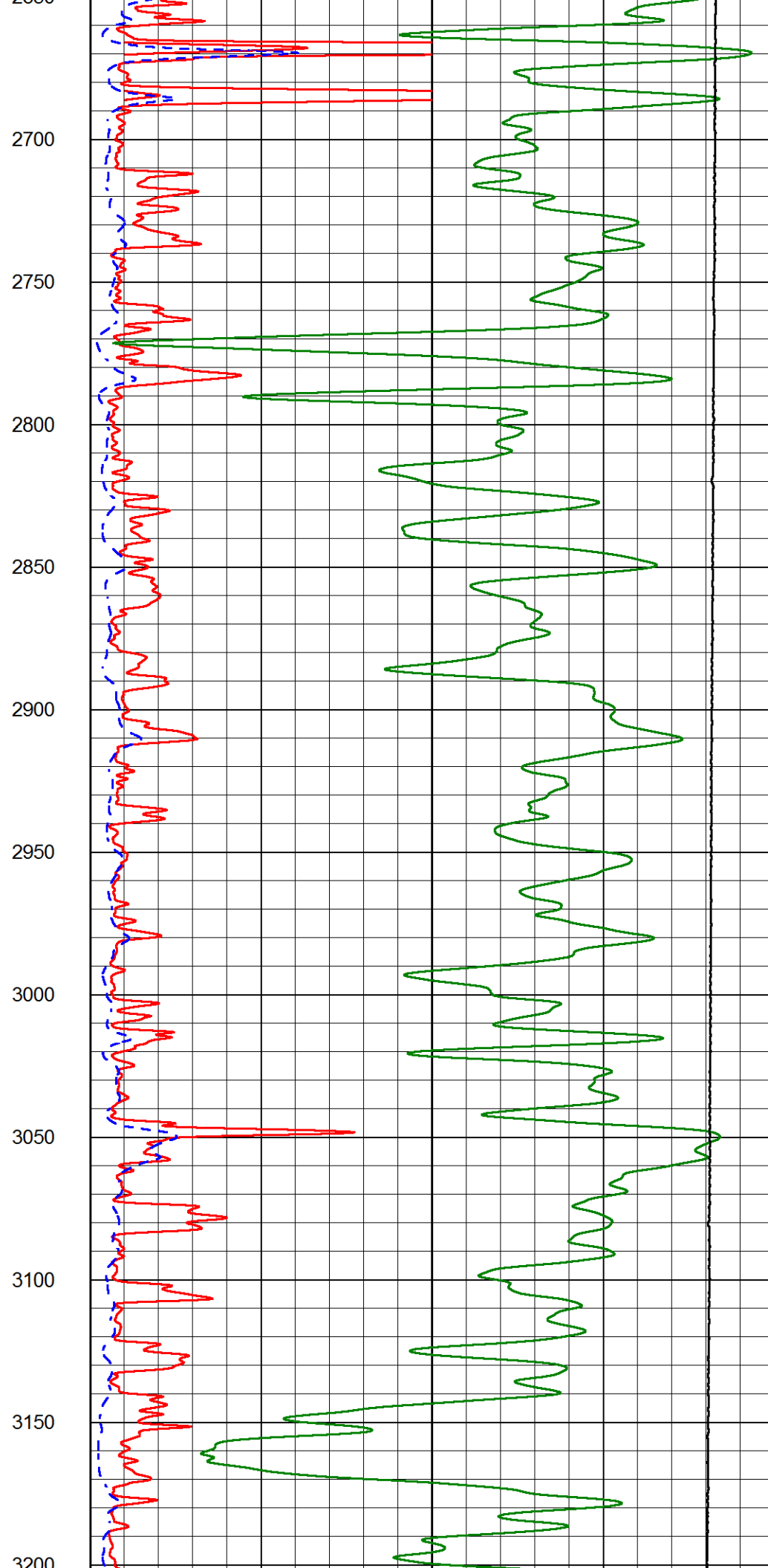
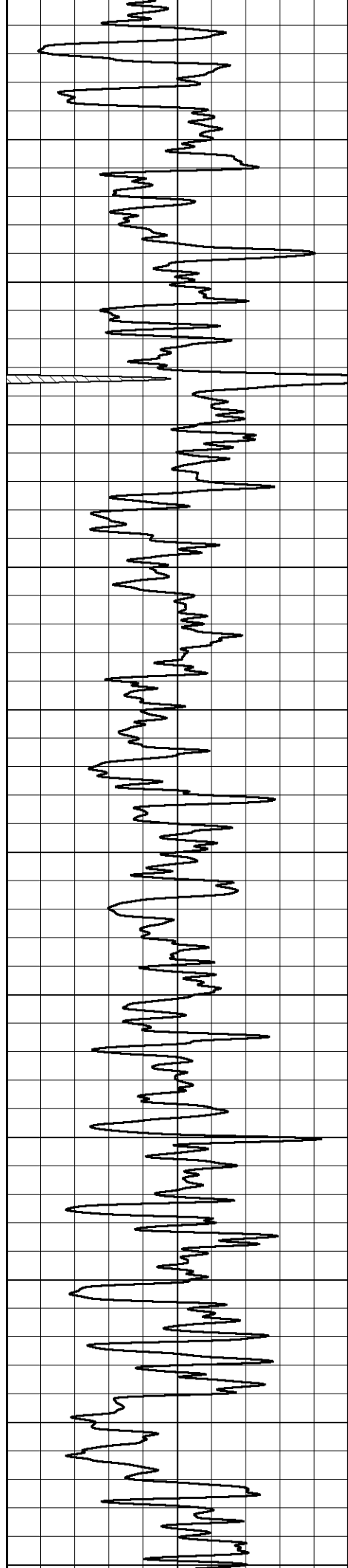


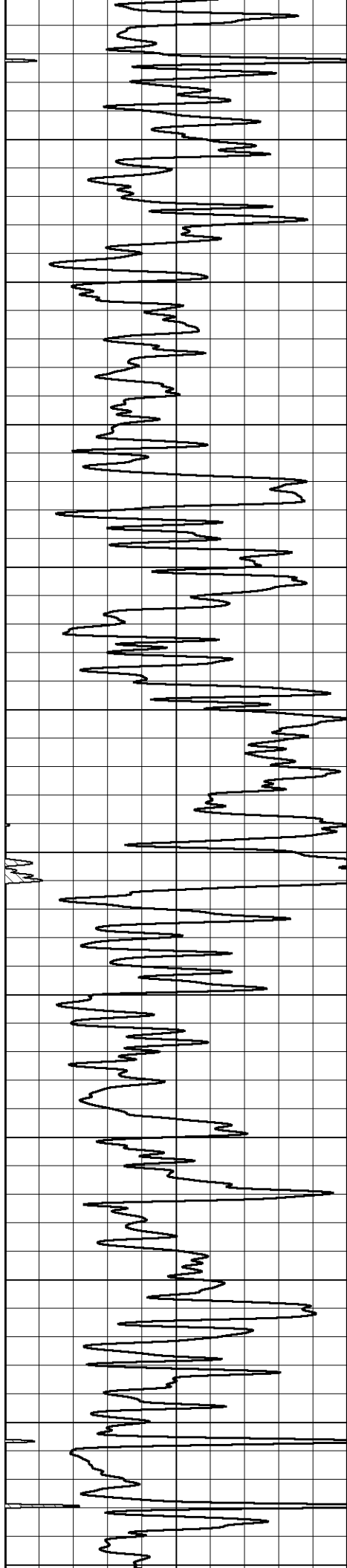
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
1550



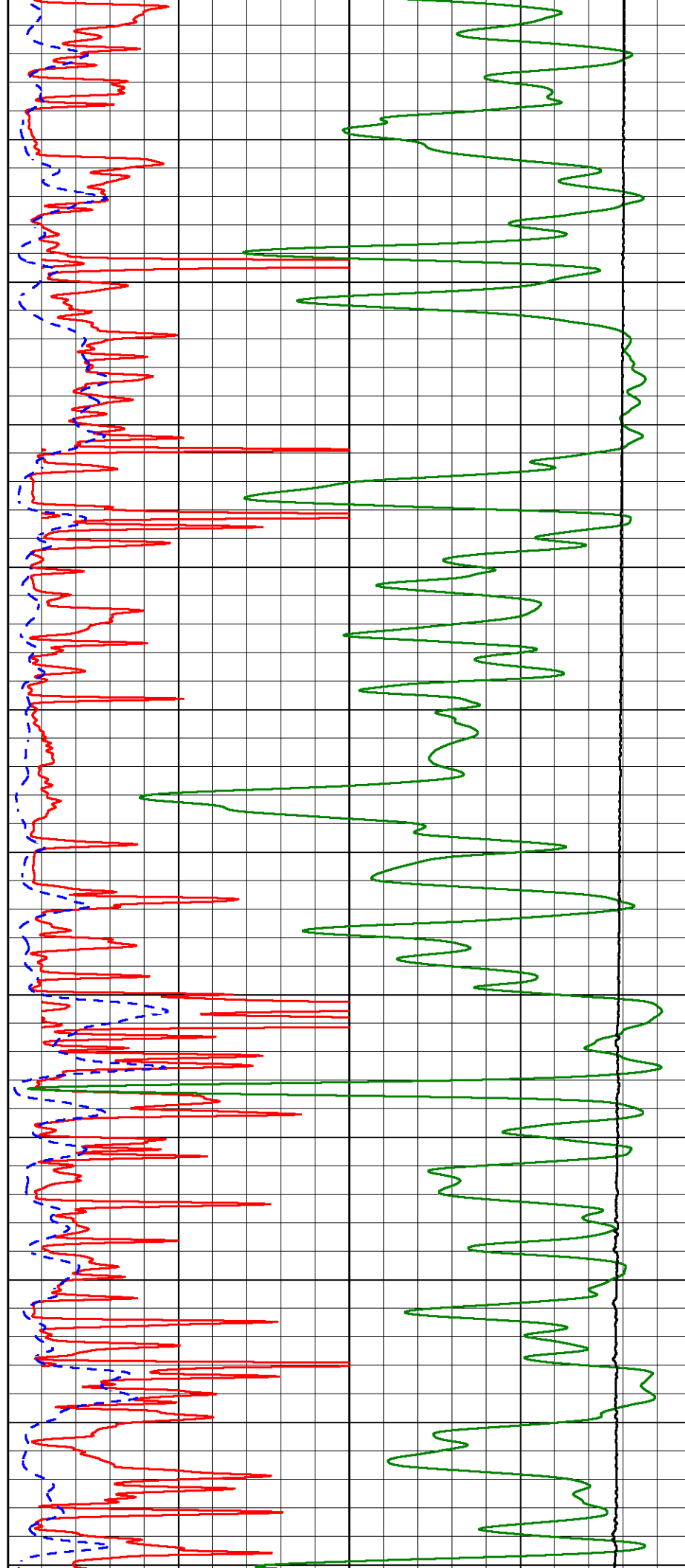


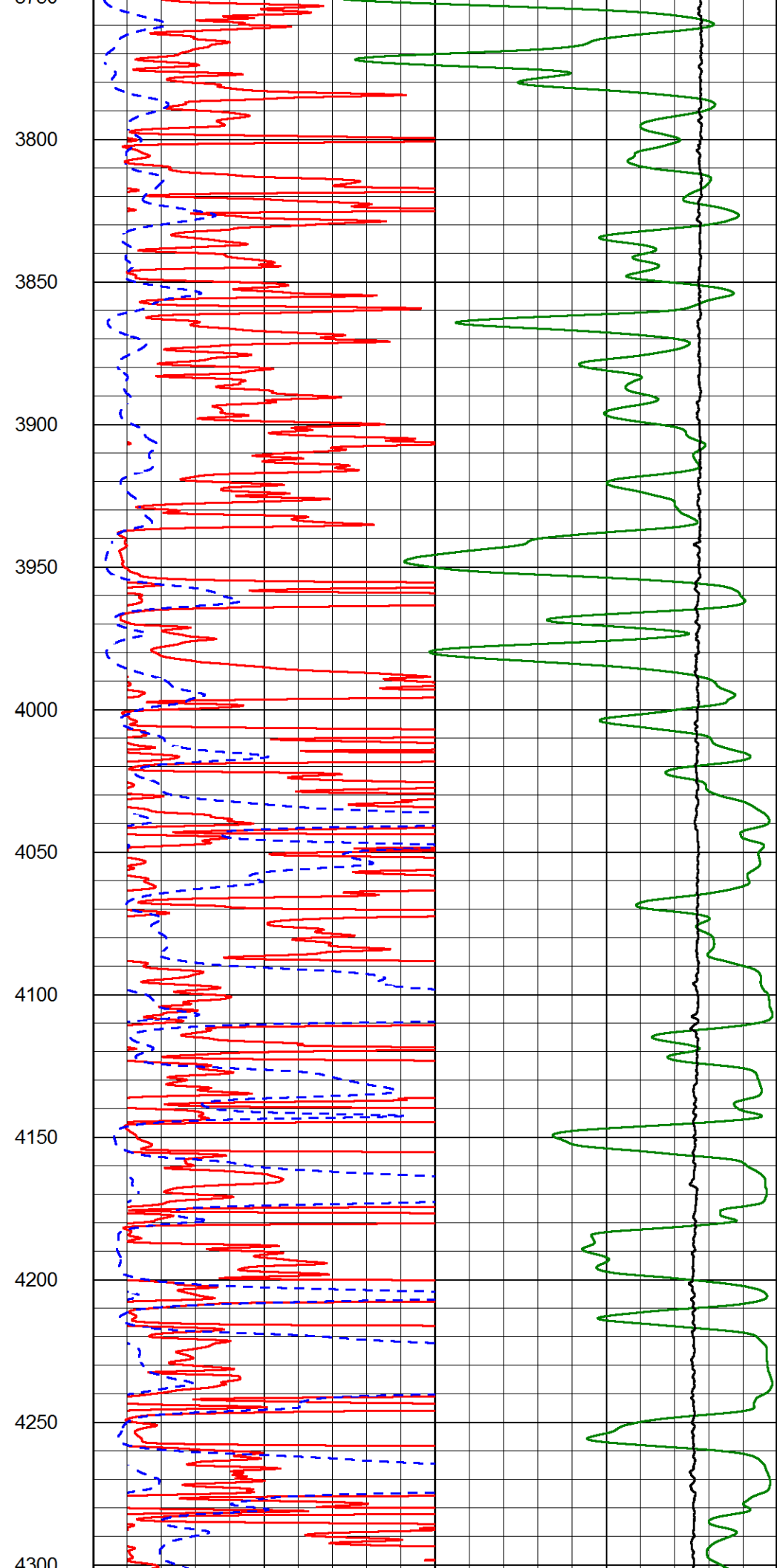
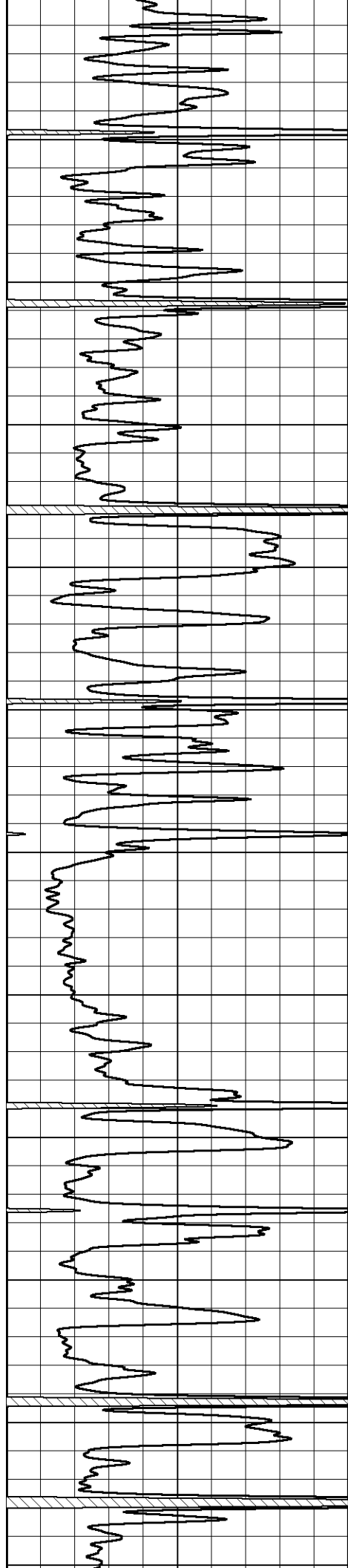


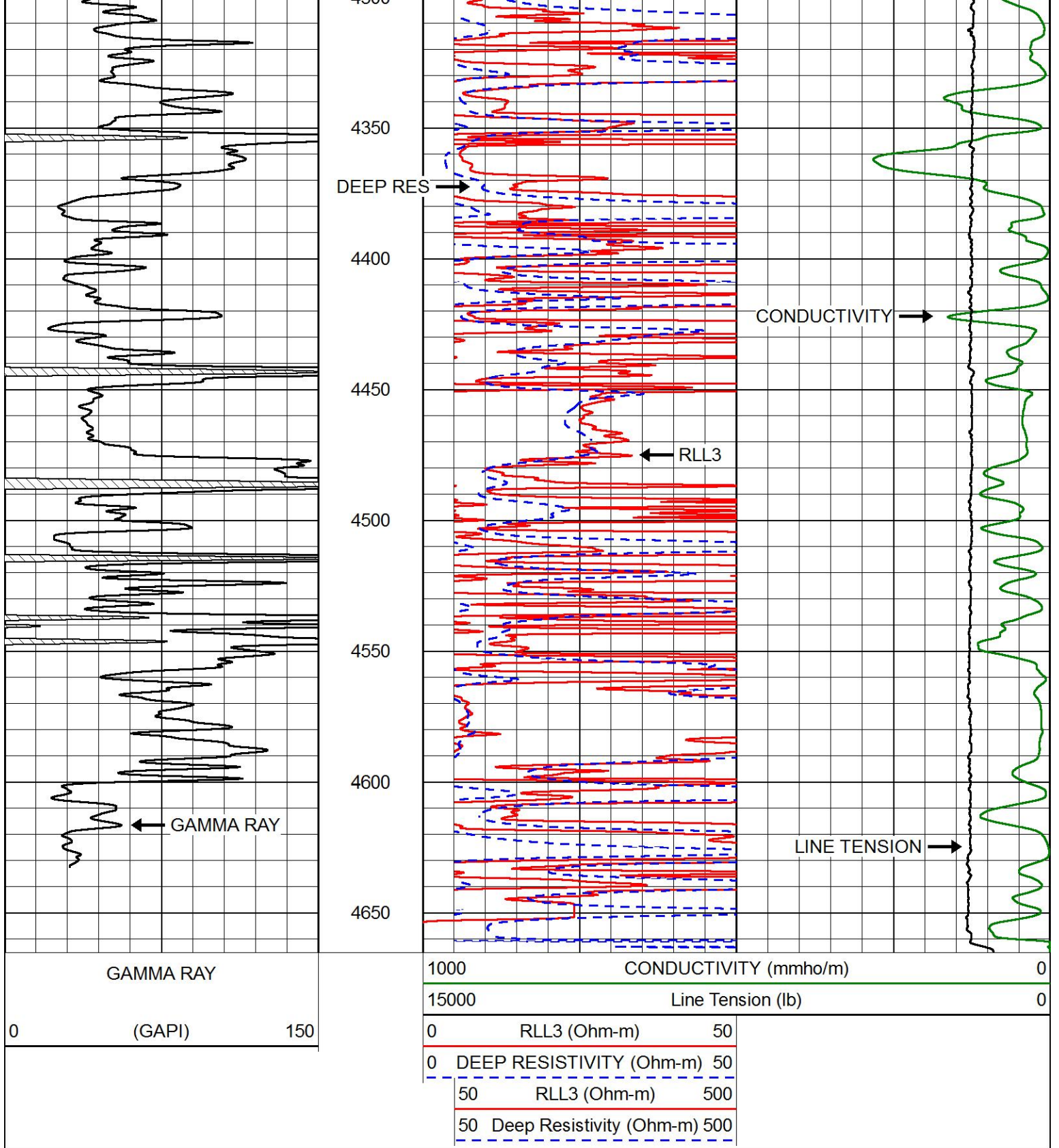




3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750





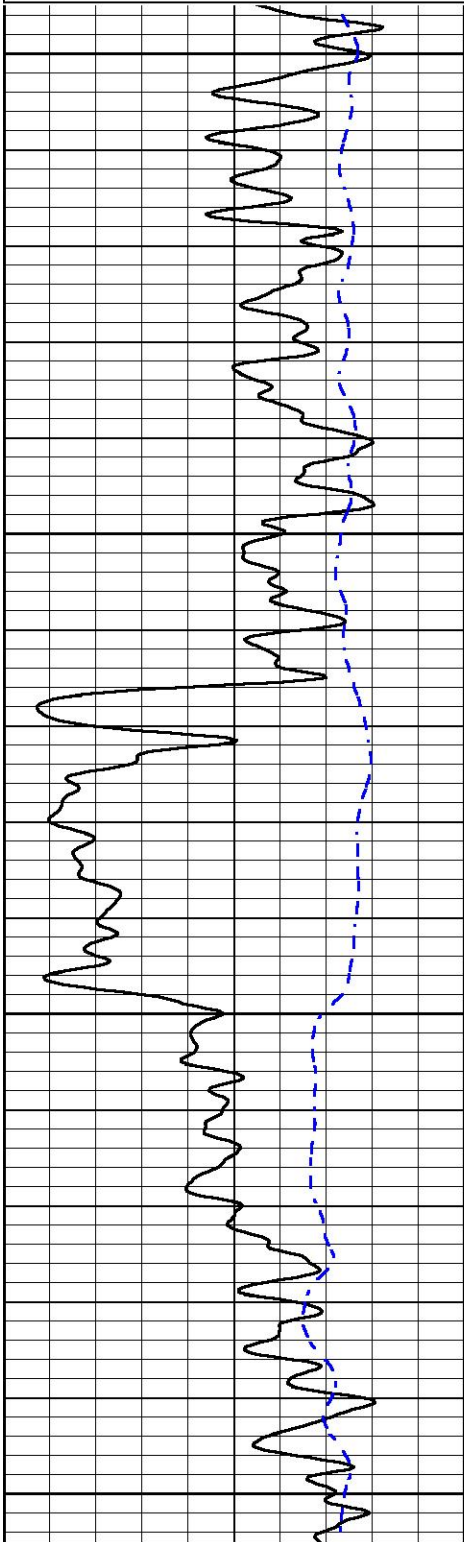


MAIN PASS

Database File bluegoose_hineman farms 1.db
 Dataset Pathname STACK/pass4.1
 Presentation Format dil
 Dataset Creation Sat Aug 25 01:54:11 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
10000	LINE TENSION (lb)	0

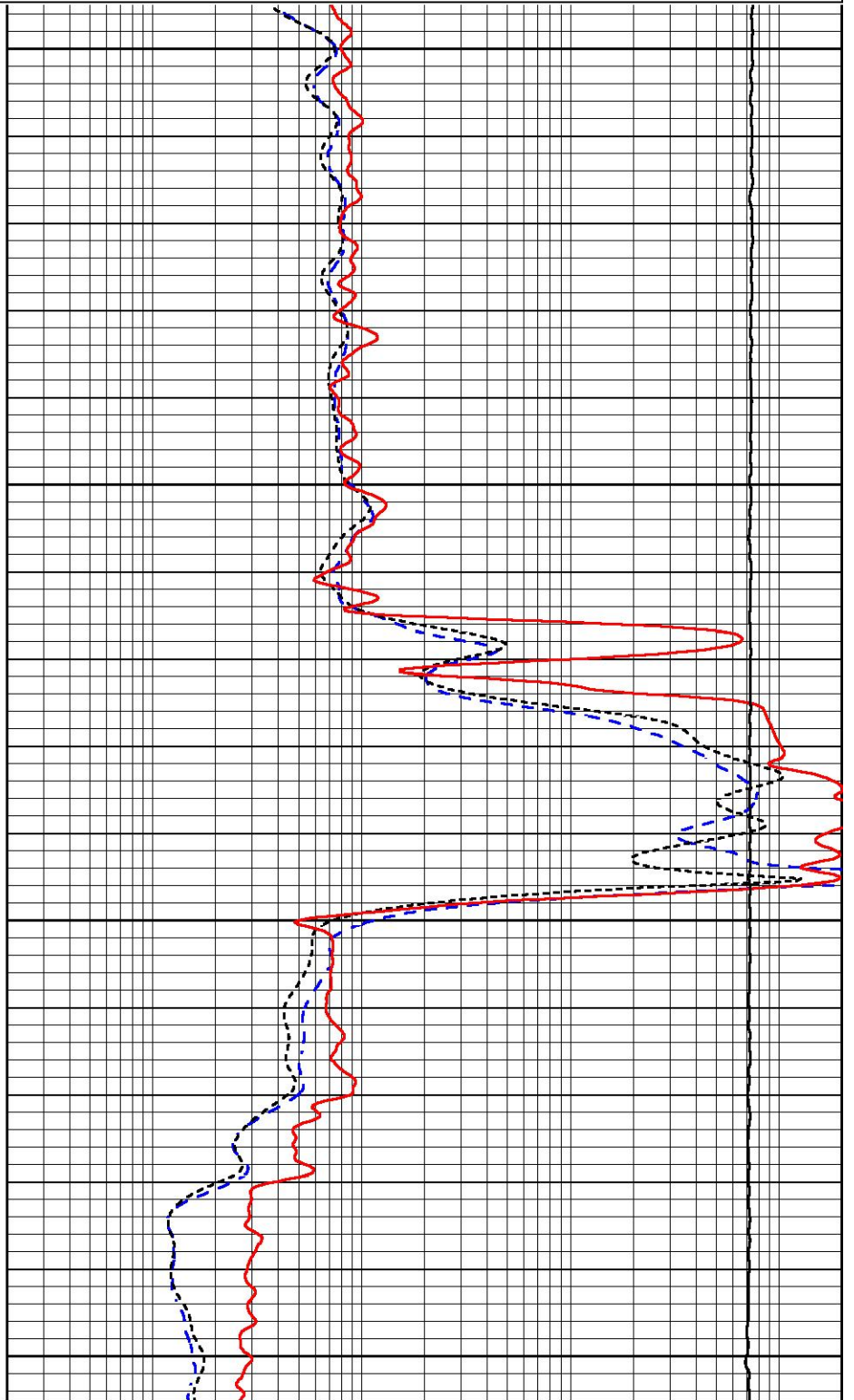


2000

2050

2100

2150



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

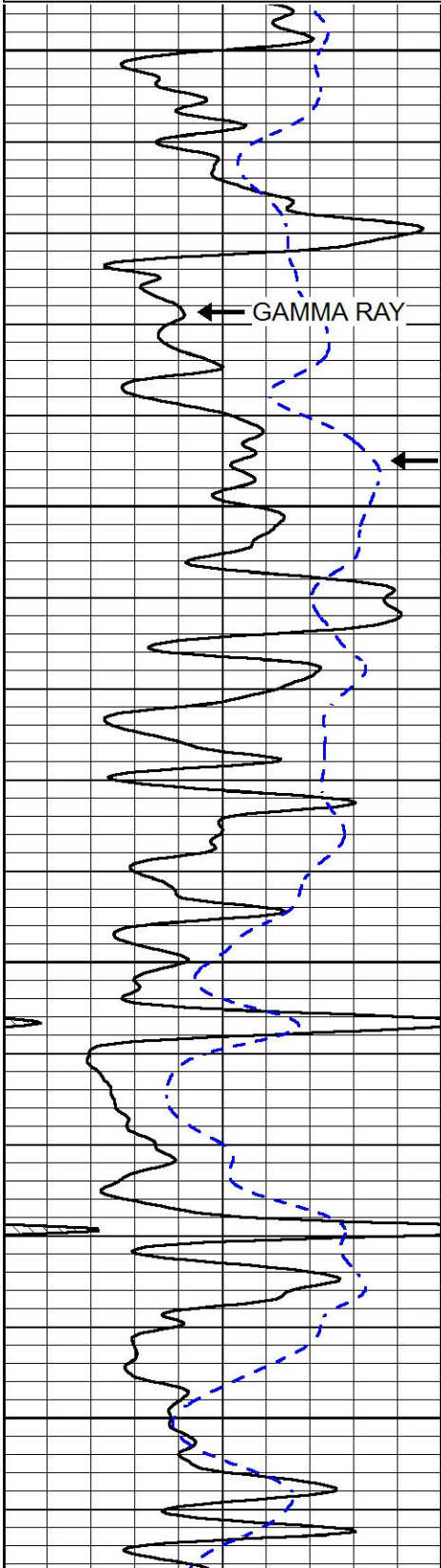


MAIN PASS

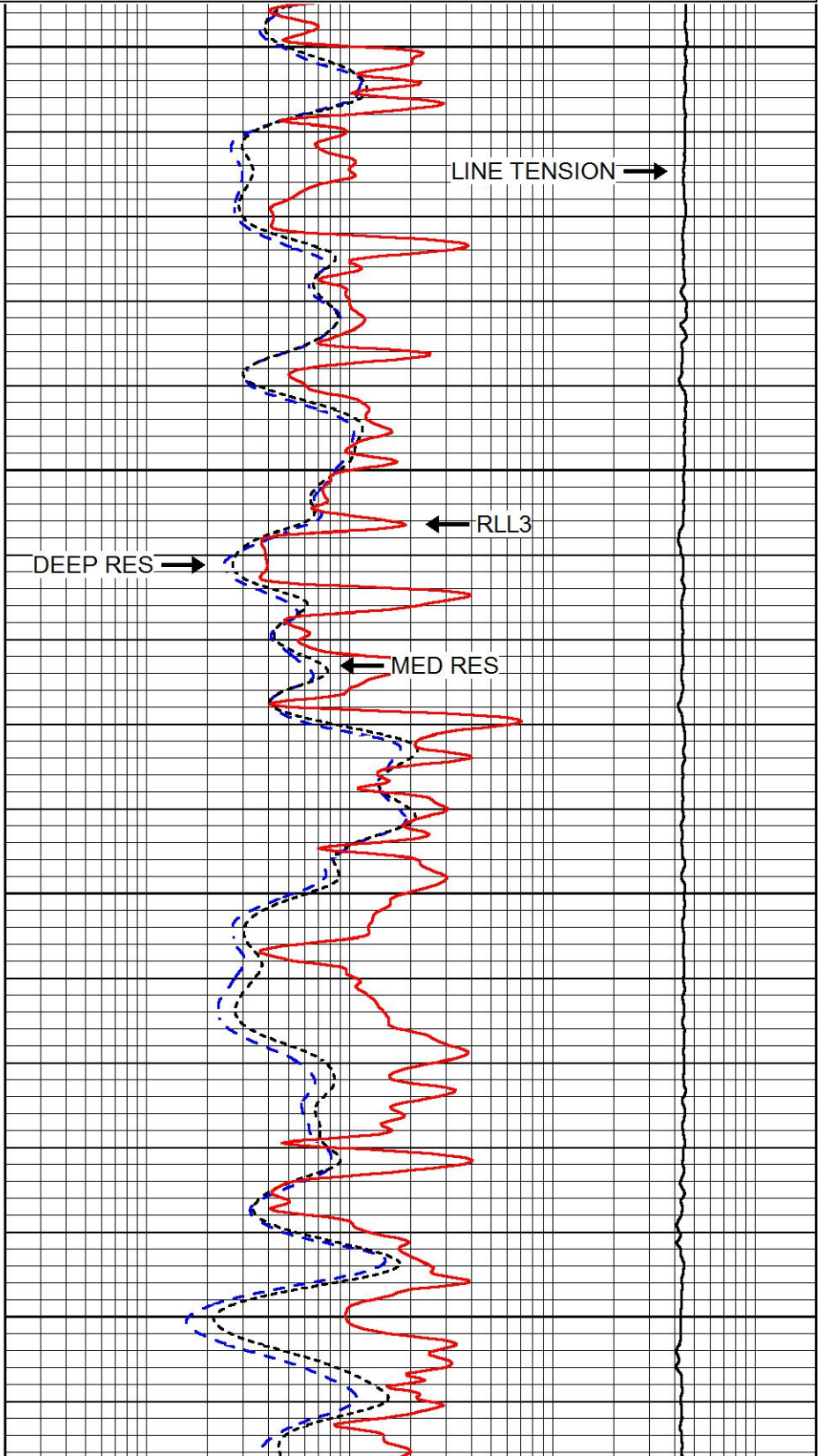
Database File bluegoose_hineman farms 1.db
 Dataset Pathname STACK/pass3.1
 Presentation Format dil
 Dataset Creation Sat Aug 25 01:24:44 2018
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

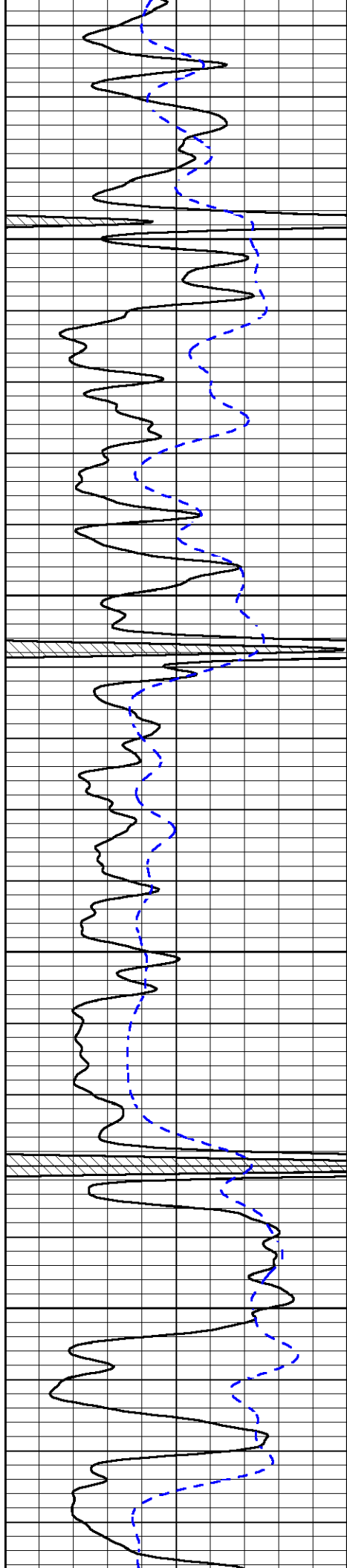
0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	LINE TENSION (lb)	0



3600
3650
3700
3750



LINE TENSION →
← RLL3
← MED RES
← DEEP RES

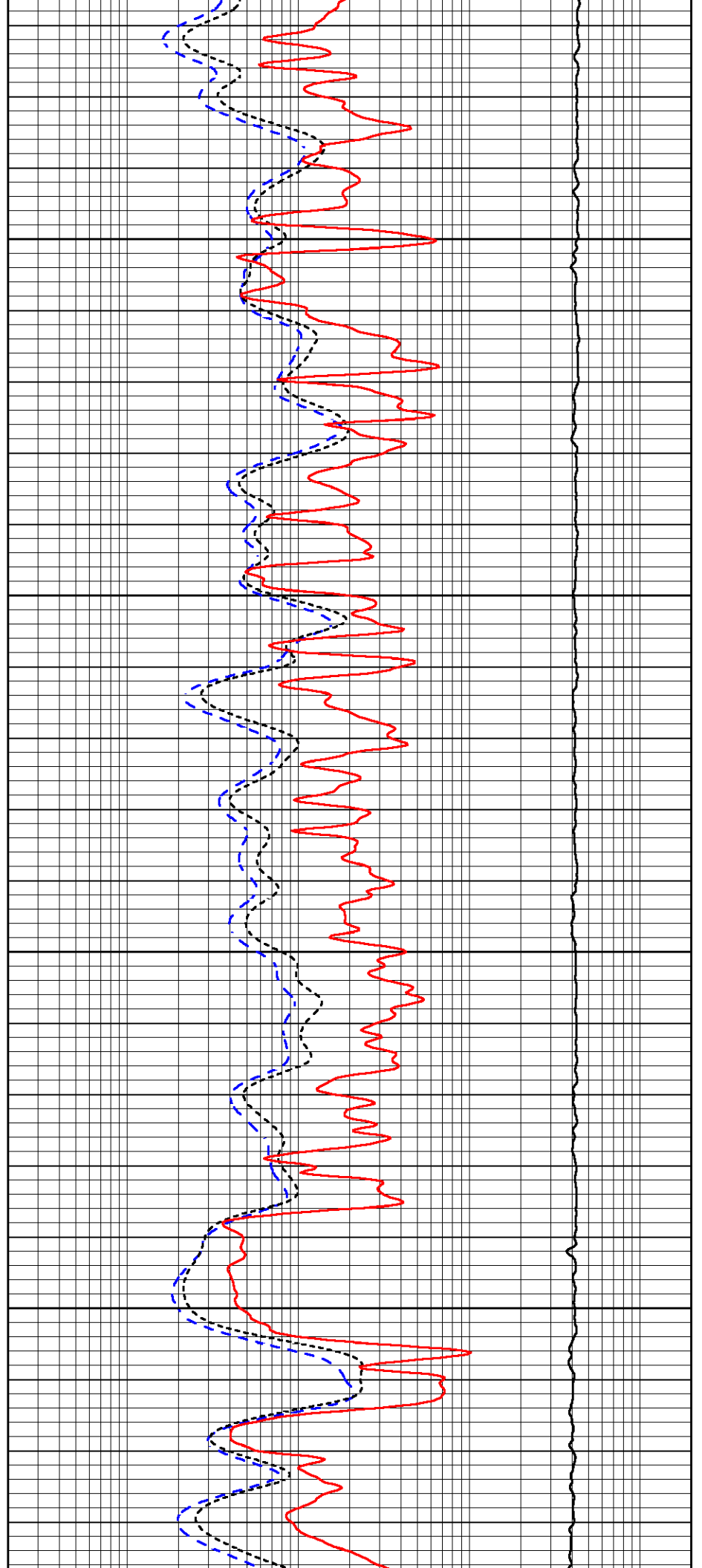


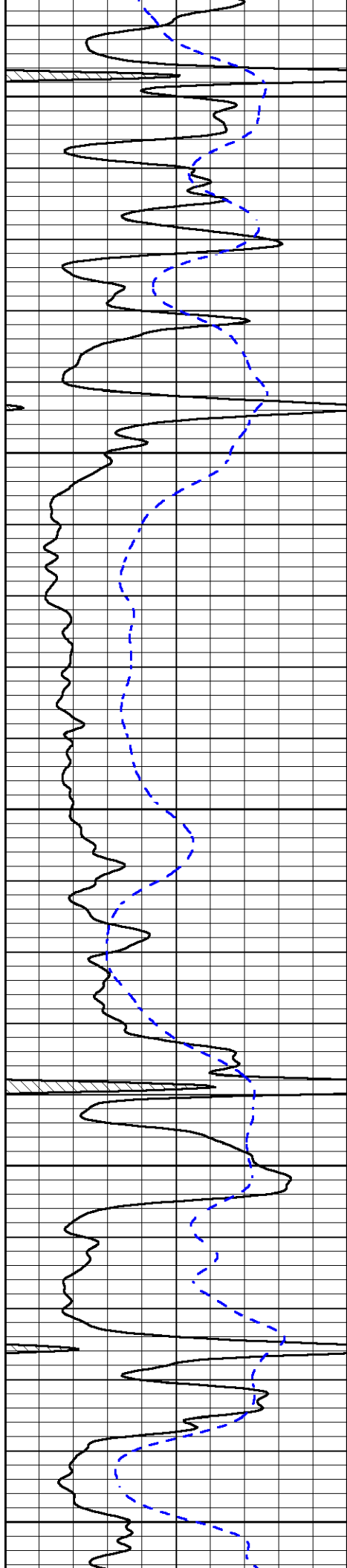
3800

3850

3900

3950





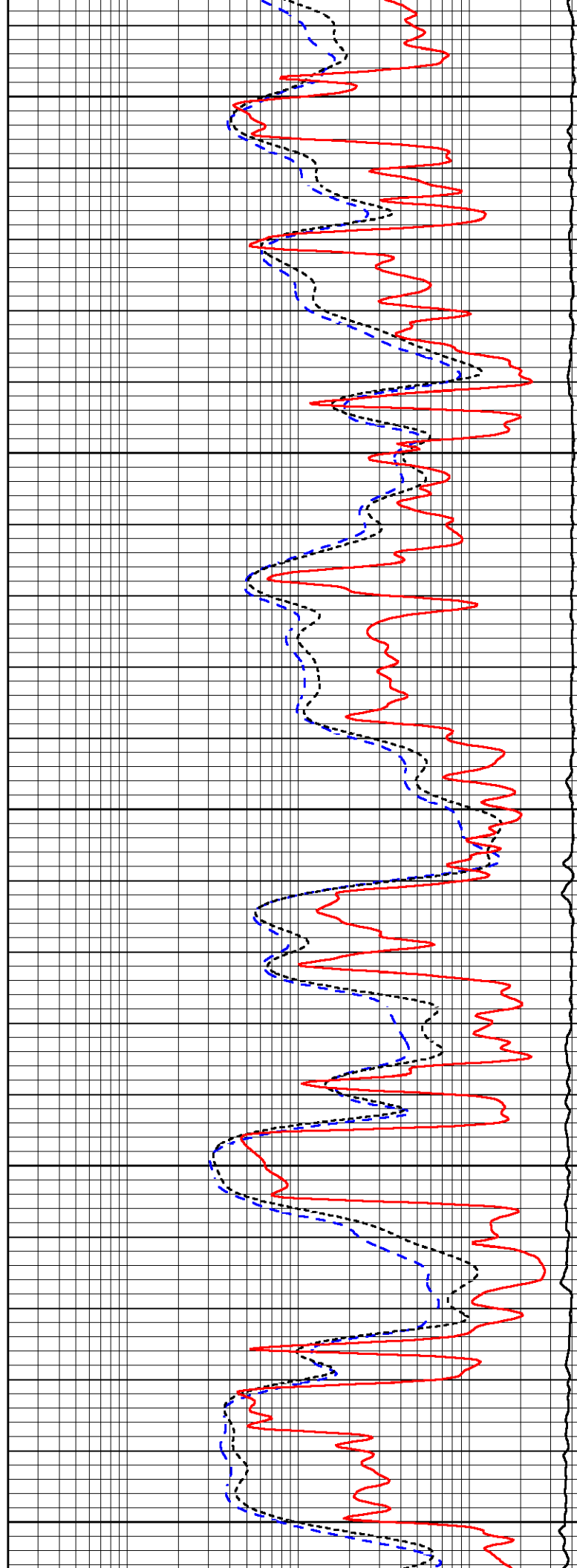
4000

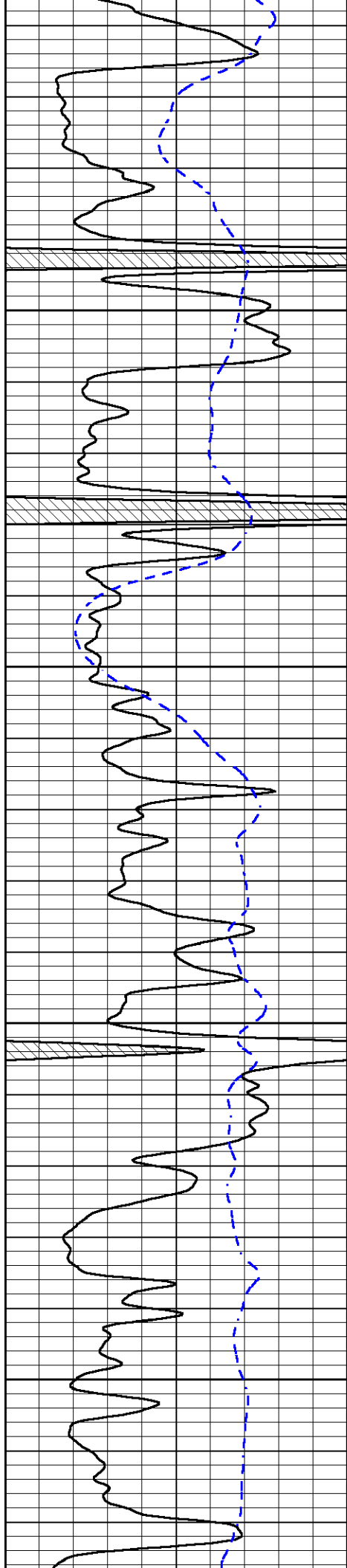
4050

4100

4150

4200



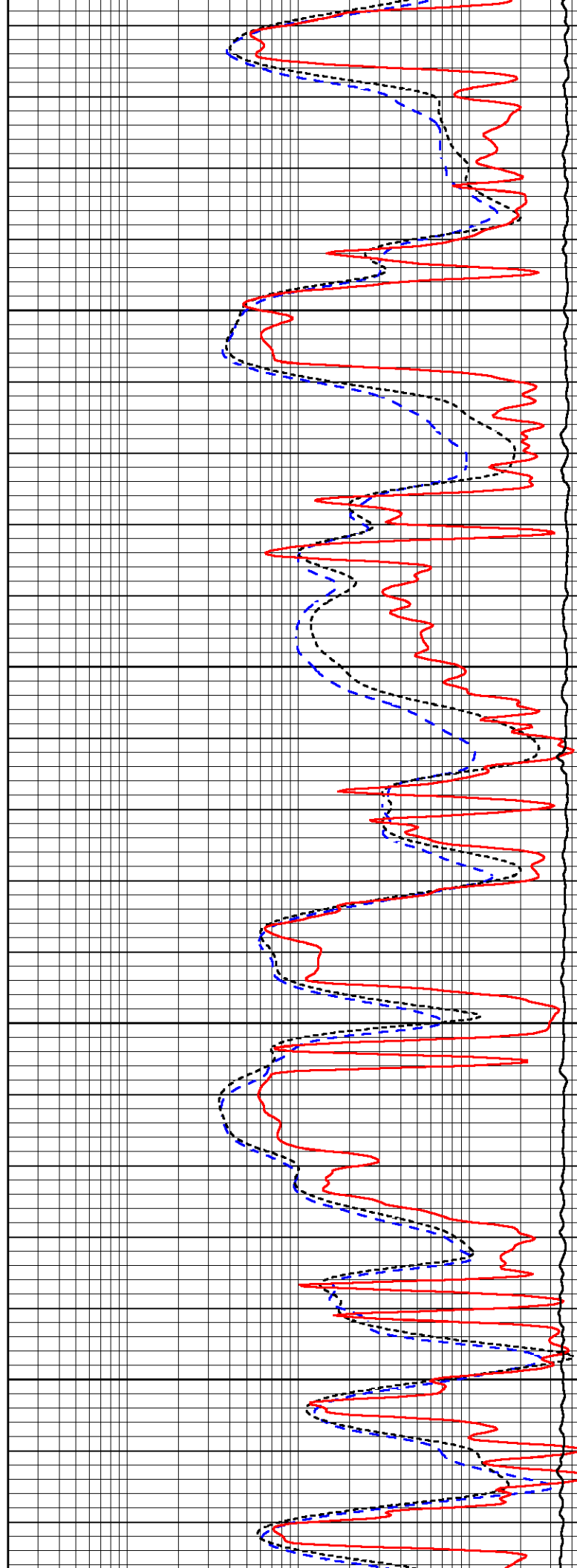


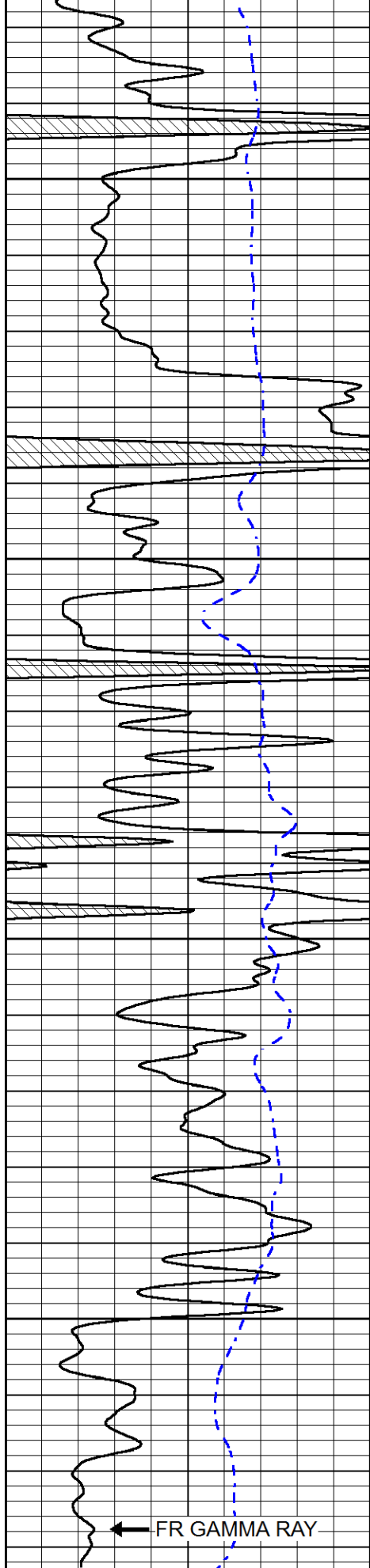
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4300

4350

4400



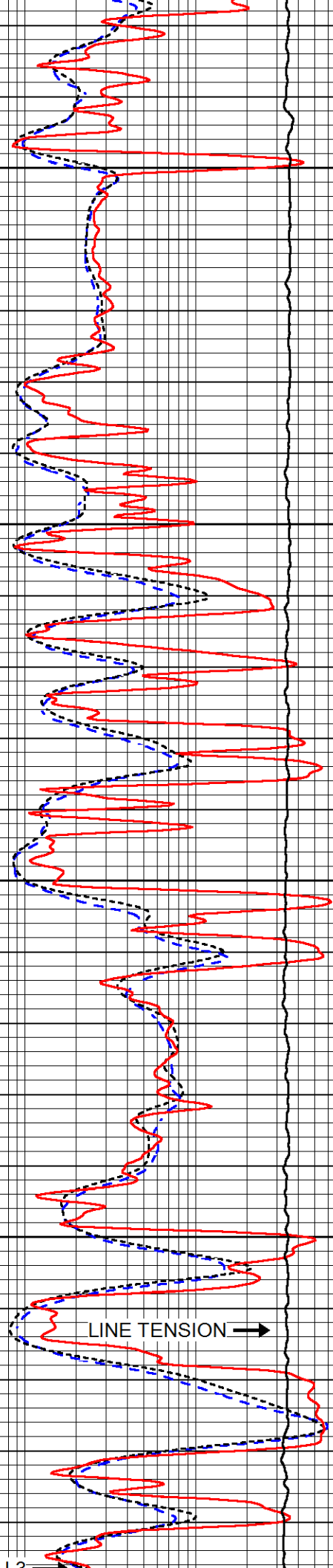


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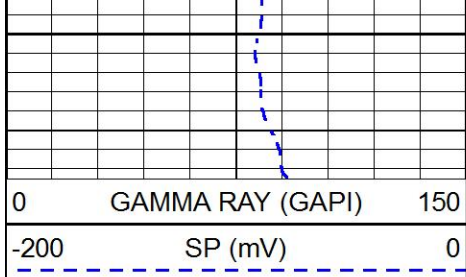
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4550

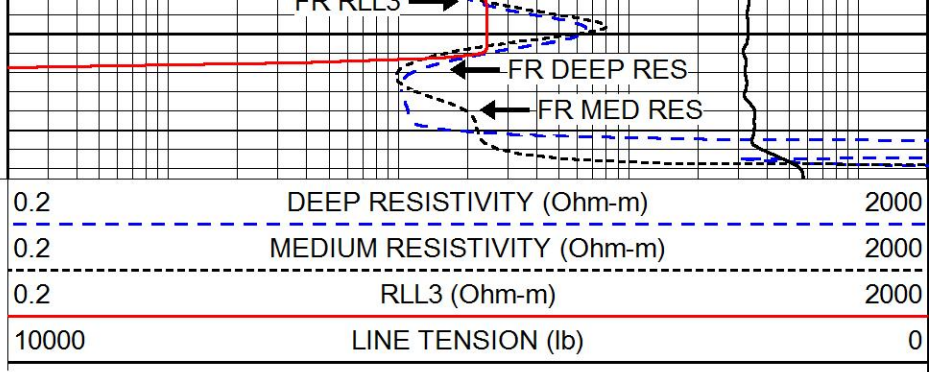
4600



FR DU 2

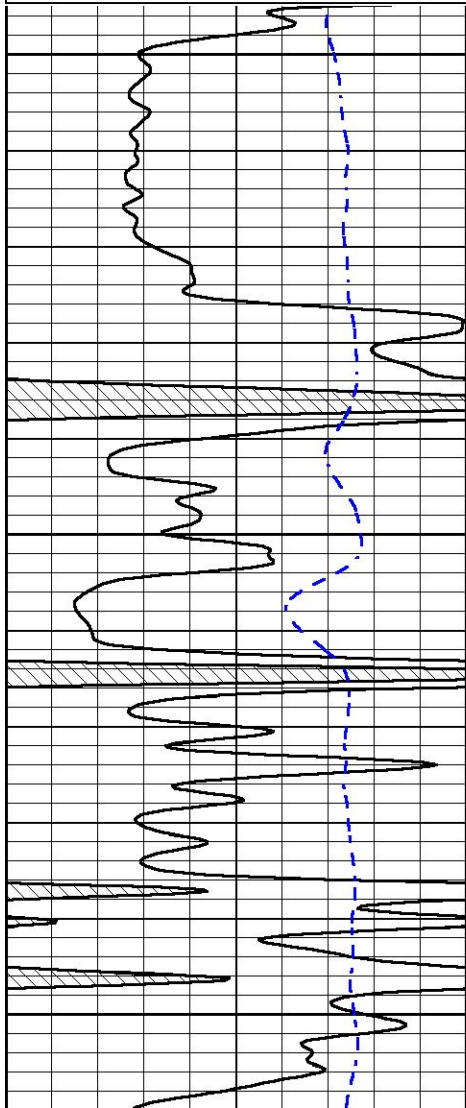
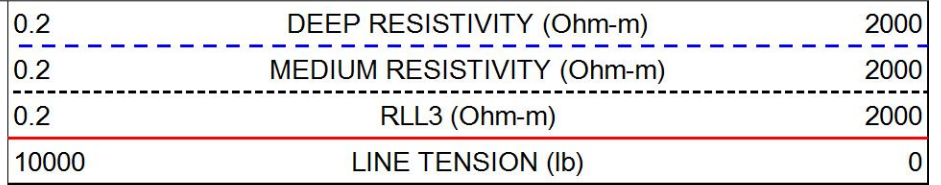
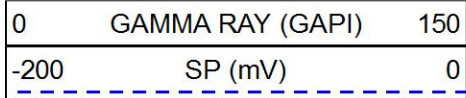


4650



REPEAT SECTION

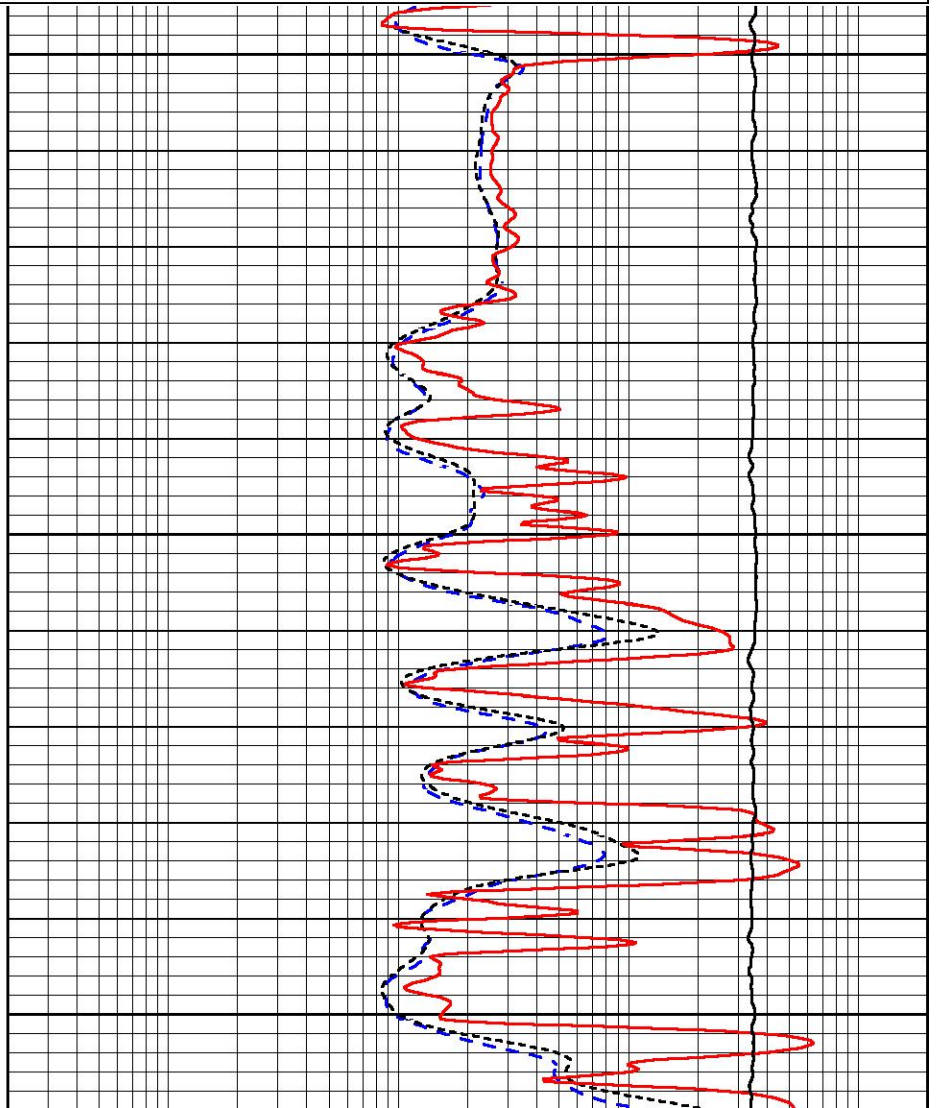
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 Presentation Format dil
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 Charted by Depth in Feet scaled 1:240

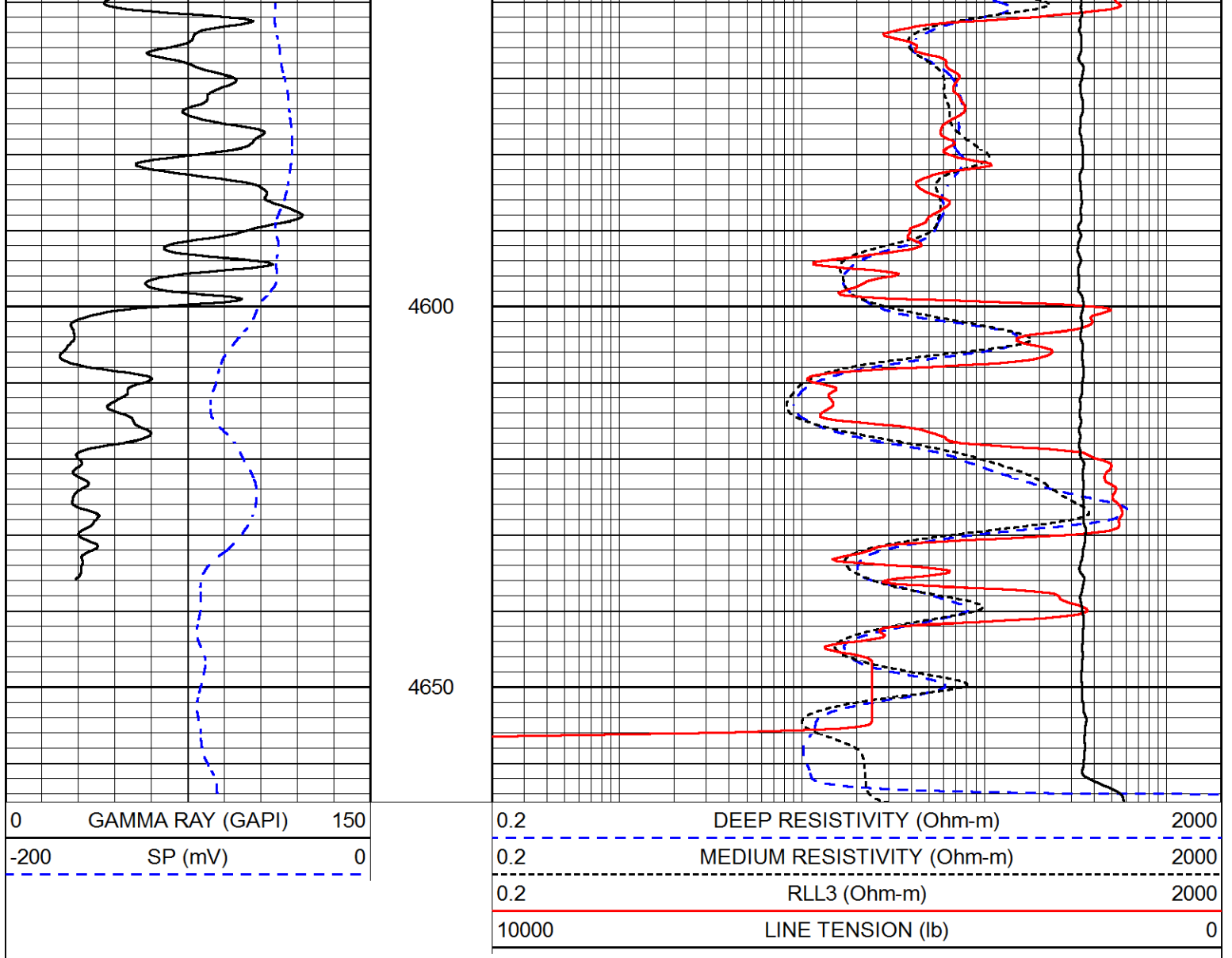


4450

4500

4550





Calibration Report

Database File bluegoose_hineman farms 1.db
Dataset Pathname STACK/pass3.3
Dataset Creation Sat Aug 25 00:54:25 2018

Dual Induction Calibration Report

Serial-Model: 967 (HT)-PSI HIGH TEMP
Calibration Performed: Fri Aug 24 11:15:17 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop	mmho/m	Gain	Offset
Deep	167.000	835.000	0.000	255.800	mmho/m	0.565	-16.500
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.390	-39.250

Compensated Density Calibration Report

Serial-Model: 797-152-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Tue May 01 13:38:28 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4933.40	5500.86	cps
Aluminum	2.660	g/cc	928.80	3521.29	cps
Spine Angle = 75.04			Density/Spine Ratio = 0.524		
	Size		Reading		
Small Ring	5.00	in	1.09		
Large Ring	15.00	in	1.03		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: FRI AUG 24 10:30:30 2018

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: Fri Aug 24 11:16:10 2018

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 BLUE GOOSE DRILLING CO., INC.
 Well HINEMAN FARMS #1
 Field WILDCAT
 County LANE
 State KANSAS



**Computer Processed
Interpretation**

Company BLUE GOOSE DRILLING CO., INC
Well HINEMAN FARMS #1
Field WILDCAT
County LANE
State KANSAS

Company BLUE GOOSE DRILLING CO., INC.
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Field WILDCAT
County LANE State KANSAS

Location: API #: 15-101-22609-00-00
330' FNL & 2310' FWL
SEC 16 TWP 18S RGE 27W
Permanent Datum GROUND LEVEL Elevation 2691'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING
Other Services
DIL/CNL/CDL
MEL
Elevation
K.B. 2701'
D.F. N/A
G.L. 2691'

Date Recorded	8/25/2018
Depth Logger	4662'
	Curve Definitions
SW	Water Saturation
SXO	Water Saturation In The Flushed Zone
VCL	Volume Of Clay
PHIE	Density - Neutron Crossplot Shale Corrected
BVW	Bulk Volume Water
BVWSXO	Bulk Volume Water In Flushed Zone
DCAL	Caliper
SPC	SP Corrected For Baseline
DGA	Apparent Grain Density
Payflag	If: PHIE> 2, VCL< 40, SPC> -10, SW< 50 & DCAL< 11
Recorded By	D. SCHMIDT
Witnessed By	KEN WALLACE
Analysis By	DAN SCHMIDT

<<< 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.

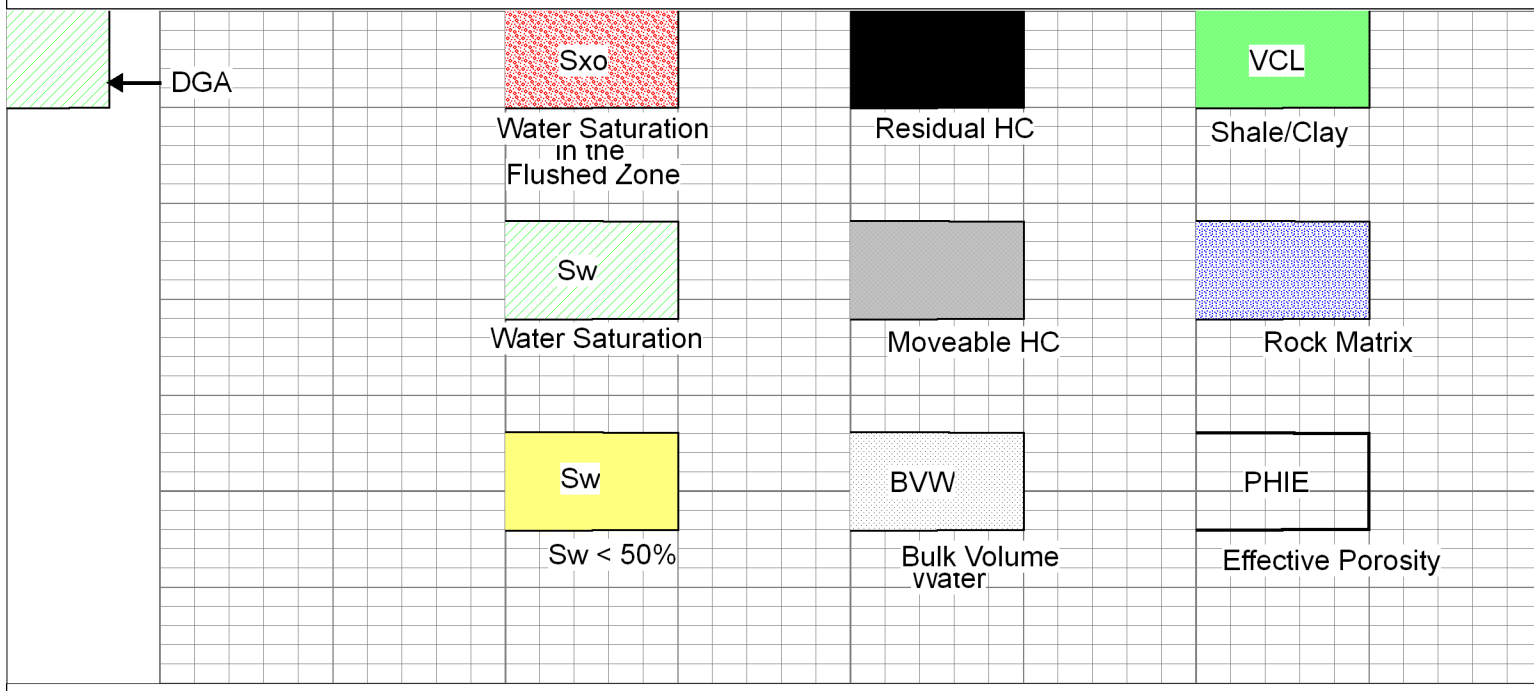
DIGHTON,
6 EAST TO TURKEY RED RD, 1 NORTH TO TB,
WEST INTO

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

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

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

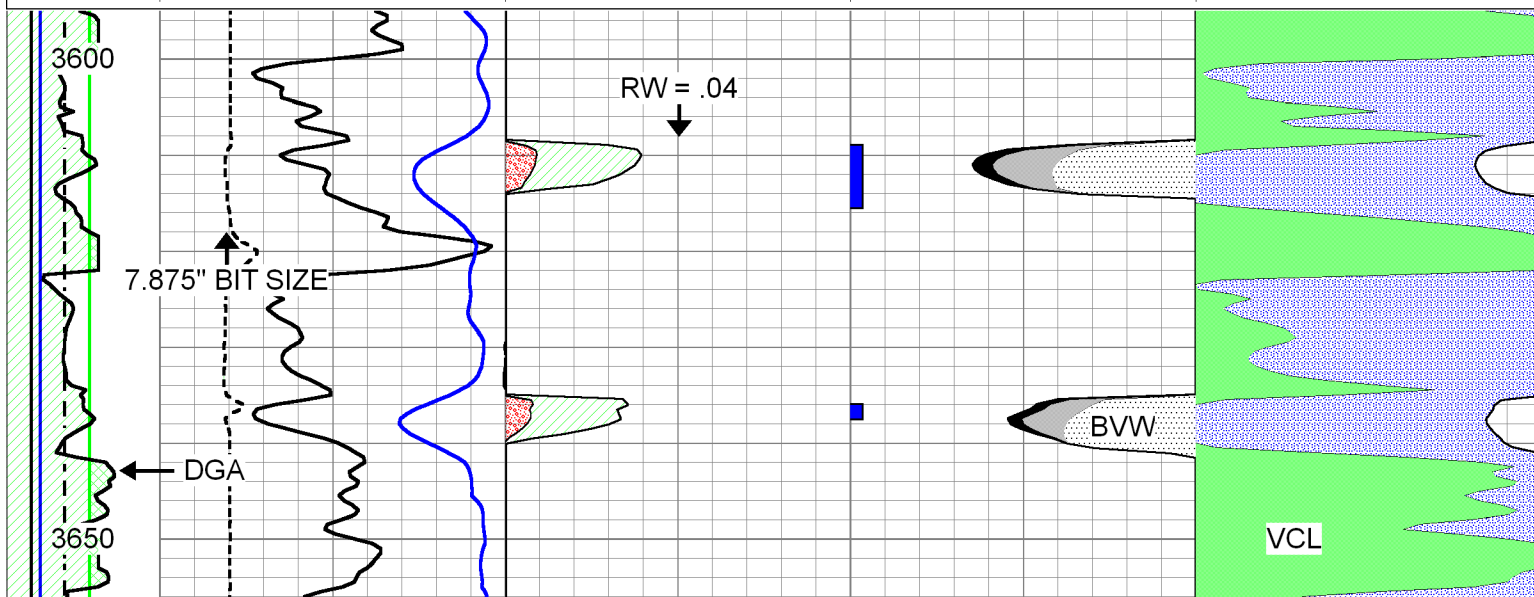
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 Presentation Format 2wxplt
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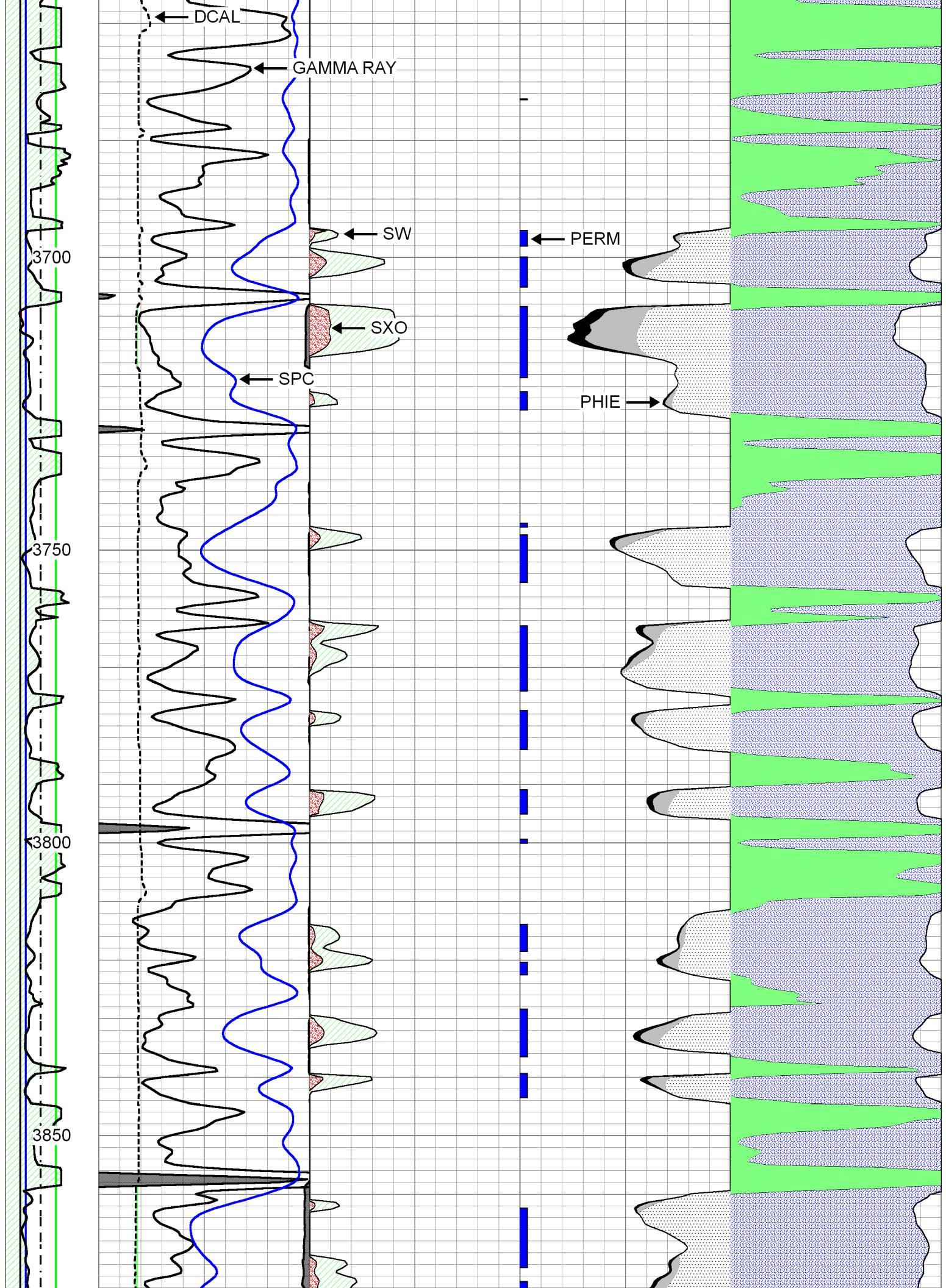


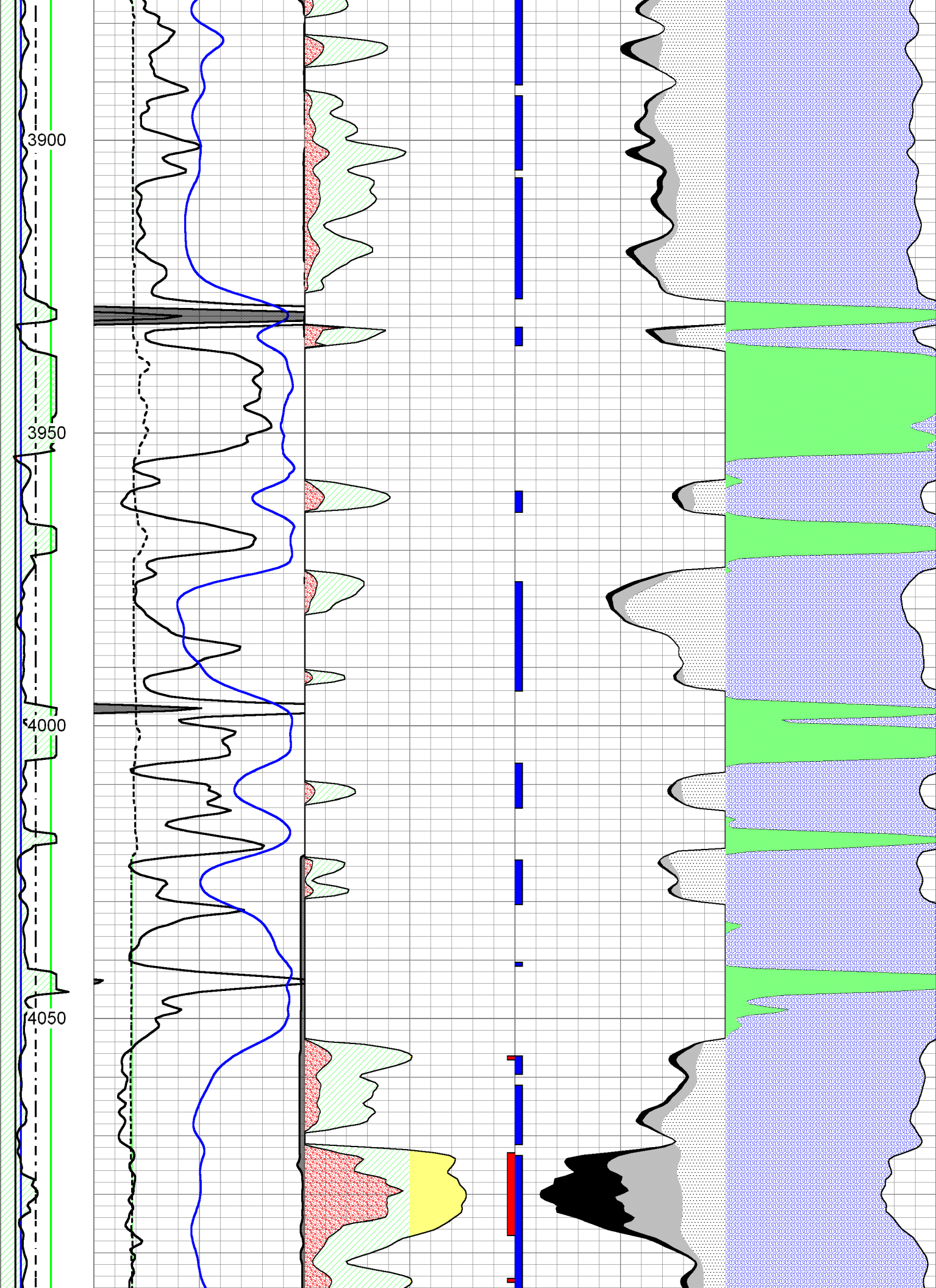
CPI

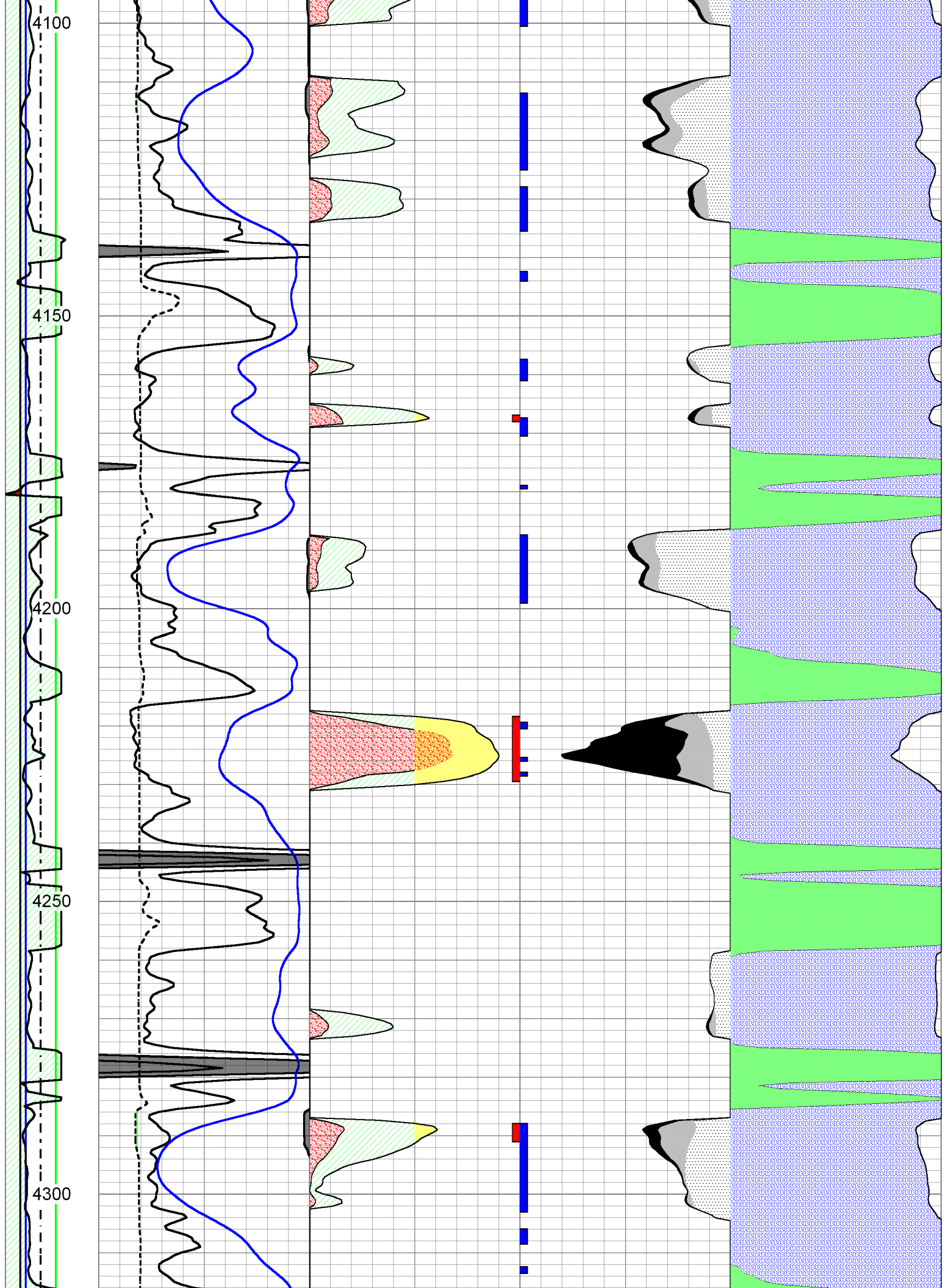
Database File blue_goose_hineman farms 1.db
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 Presentation Format calc
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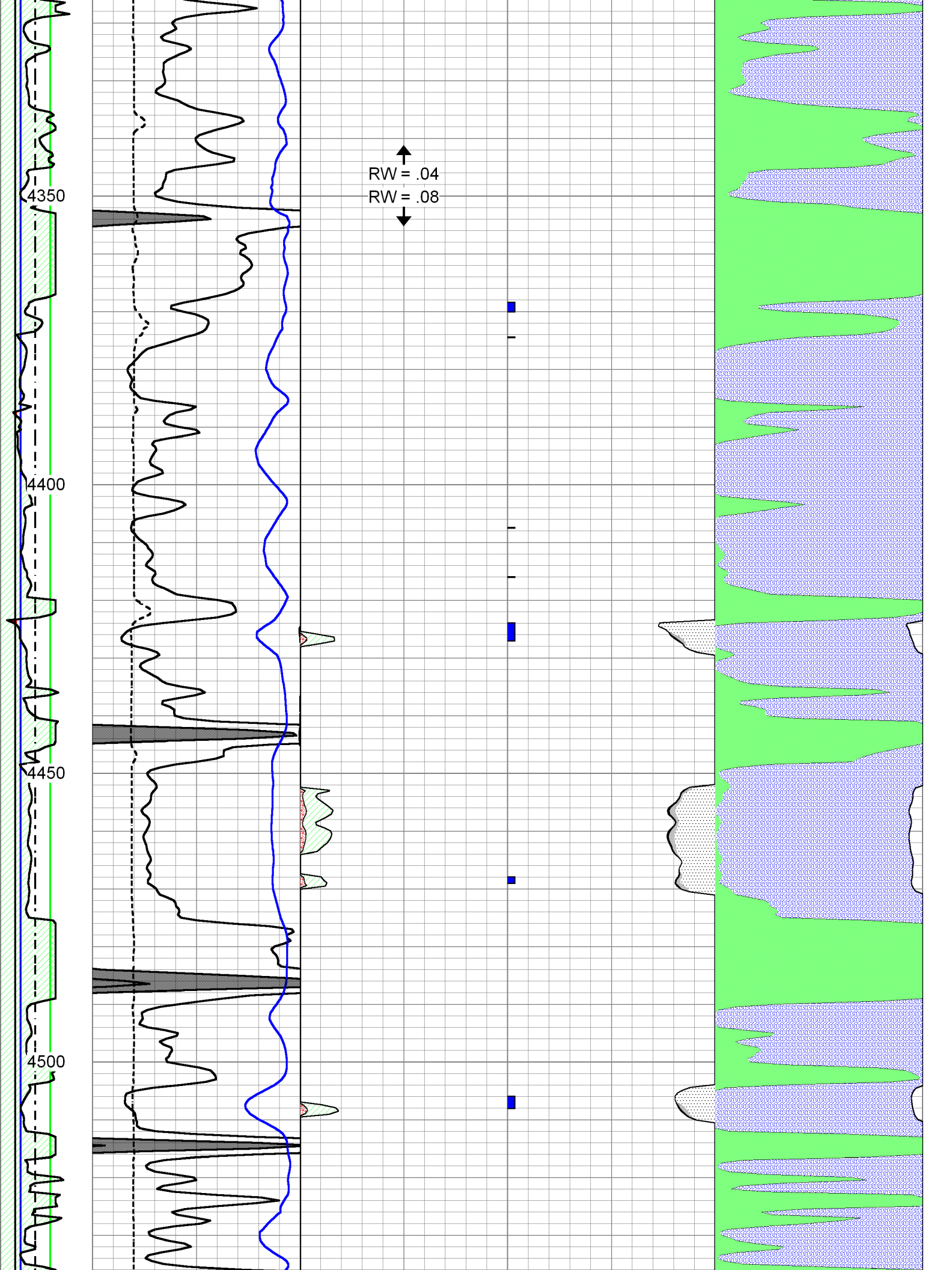
DGA	Gamma Ray	1	SW	0	0.3	PHIE	0	0	VCL	1
(g/cc)	(GAPI)	150	PAYFLAG	0	0.3	BVW	0	1	PHIE	0
2.6 3.1	DCAL (in)	16	1	SXO	0	0	PERM	30		
	-150 SPC	0			0.3	BVWSXO	0			

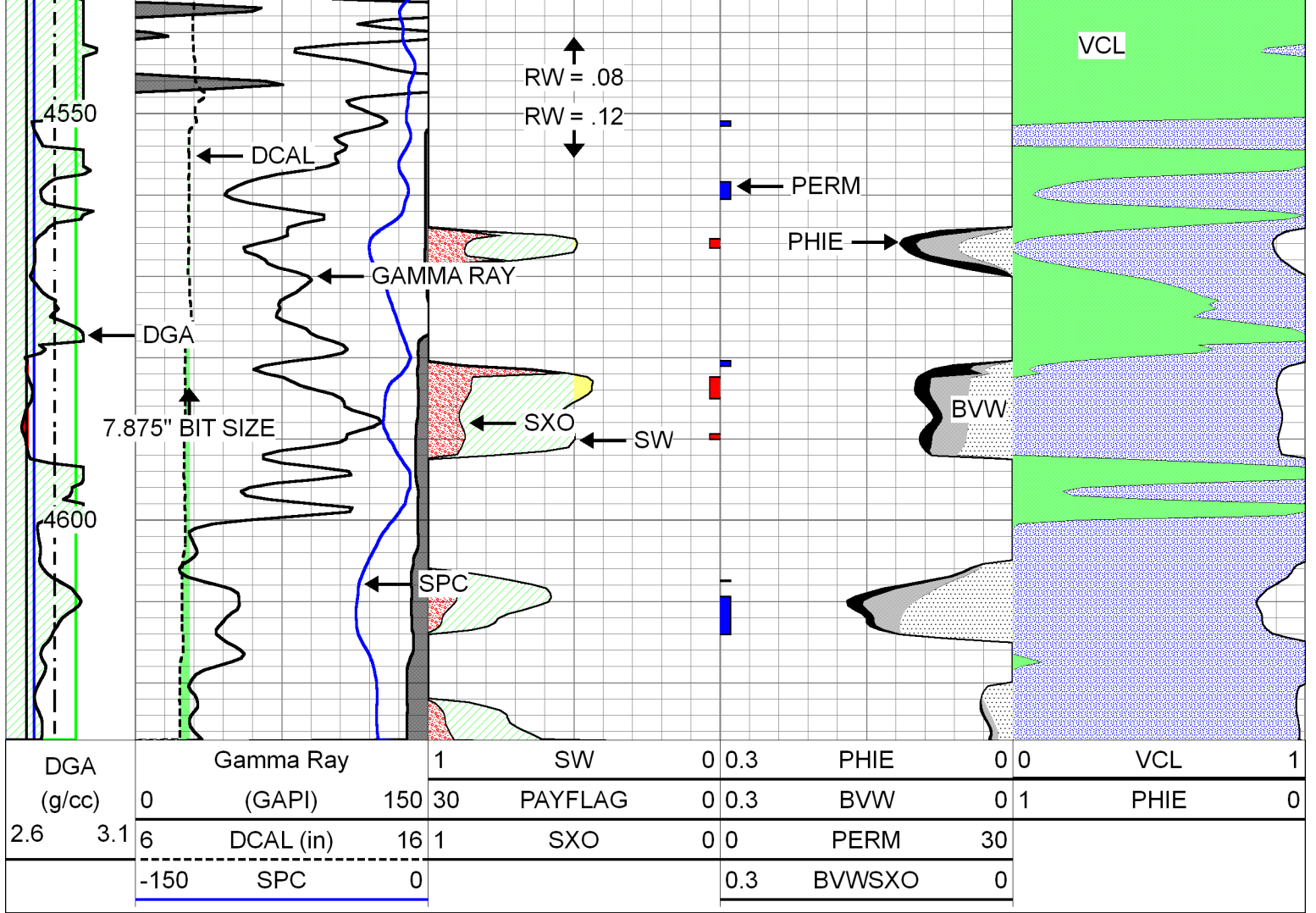












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