

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

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

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

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



API #

15-015-24118-00-00

TICKET NUMBER 54352

LOCATION El Dorado, #5

FOREMAN Fuzz4

PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT
CEMENT**

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-5-18	5033	T. Wiebe 31-1 SWD	31	23	5	Butler
CUSTOMER Entravisco Energy LLC			El Dorado			
MAILING ADDRESS P.O. Box 578			7740 110th West 40			
CITY Dewey	STATE OKLA	ZIP CODE 74029	TRUCK #	DRIVER	TRUCK #	DRIVER
			603	Chance		Jeremy
			510	DJ		
			713	DJ		
			725	Fuzz4		

JOB TYPE Production HOLE SIZE 77/8 HOLE DEPTH 3100' CASING SIZE & WEIGHT 5"2 15.5#
 CASING DEPTH 2844' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 12.5-14.5 SLURRY VOL 104-24.5 WATER gal/sk 8.6-5.9 CEMENT LEFT in CASING 326'
 DISPLACEMENT 68.9 DISPLACEMENT PSI 800 MIX PSI _____ RATE 4.5 BBL/min

REMARKS: Safety meeting on C+G Dalg. Float Equipment @ Baskets 1-26-43
 59, Centralizers 2.5-15-25-40-65. Open and set packer shoe @ 1000'
 Pump 5 BBL water, 5 BBL Calcium chloride (1-sk), 5 BBL water, 10 BBL sodium
 metasilicate (2 sks), 5 BBL Dye water, mix 10 sks in RH. Mix 320 sks
 65/35 690gel 290cc 8* Kolseal/sk, 1/2* phenoseal/sk @ 12.5#. Tail with
 100 sks class A' 490gel, 290cc w/5* Kolseal/sk and 1/2* phenoseal/sk @
 14.5# wash pump and lines, Drop plug and displace 69"14 BBL. 800*
 List, Land plug @ 1300'. Float hold.
 cement did circulate approx 25 BBL to pit. TMMTS Fuzz4
+ crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0452	1	PUMP CHARGE	2300 ⁰⁰	2300 ⁰⁰
CE0002	20 miles	MILEAGE	7 ¹⁵	143 ⁰⁰
CE0711	2 each	Tow mileage Delivery (min)	660 ⁰⁰	1320 ⁰⁰
CC5970	100*	Sodium metasilicate	2 ⁵⁵	255 ⁰⁰
CC5825	330 sks	65/35 690gel	18 ⁷⁵	6187 ⁵⁰
CC5800A	100 sks	CLASS 'A'	20 ⁰⁰	2000 ⁰⁰
CC5325	238#	Calcium chloride	1 ²⁵	297 ⁵⁰
CC5965	376#	Bentonite	.30	112 ⁰⁰
CC6077	3140*	Kol-seal	.50	1570 ⁰⁰
CC6079	215#	Phenoseal	1 ³⁵	290 ²⁵
CP8254	1	5"2 Latchdown, Plus + Assy	400 ⁰⁰	400 ⁰⁰
CP8727	1	5"2 - Type A Packer shoe	2355 ⁰⁰	2355 ⁰⁰
CP8554	6	5"2 - Centralizers	81 ⁰⁰	486 ⁰⁰
CP8651	4	5"2 - Reciprocating Baskets	360 ⁰⁰	1440 ⁰⁰
		subtotal		19157 ⁰⁵
	AS PER BID	discount		6704 ⁹⁶
		subtotal		12452 ⁰⁹
		SALES TAX		
		ESTIMATED TOTAL		

Ravin 3737

AUTHORIZATION _____ TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

GEOLOGICAL REPORT

Entranco Energy, LLC

T. Wiebe #31-1 SWD

NW NE NE Section 31-123S-R5E

Butler County, Kansas

COMPLETED: 12-05-18

CONTRACTOR: C & G Drilling Company

SIZE OF HOLE: 7 1/8"

SURFACE PIPE: 8 5/8"

CEMENTED WITH: N/A

LONG STRING: 5 1/2"

CEMENTED WITH:

R.T.D. 3100'

LOGS: CNT LDT MLT PIT

MUD SYSTEM: Chemical

OTHER:

William M Stout
Geologist

W. M. Stout
11/20/18
2474-5-18

FORMATION TOPS

	1469 G.L.	1475 K.B.
Kansas City	2074-599	2071-596
Base Kansas City	2218-743	2215-740
Altamont	2338-863	2334-859
Cherokee	2422-947	2417-942
Mississippi	2474-999	2469-994
Mississippi Lime	2548-1073	2543-1068
Kinderhook	2583-1108	2579-1104
Viola	2692-1217	2688-1213
Simpson	2769-1294	2765-1290
Arbuckle	2828-1353	2824-1249
Total Depth	3100-1625	3098-1623

SAMPLE DESCRIPTIONS

Mississippi 2474' (-999)
2474' - 2494'
Chert - white, light brown, opaque to translucent, some weathered, light stain, fair odor, show free oil with gas bubbles, vugular and pin point porosity with fluorescence.

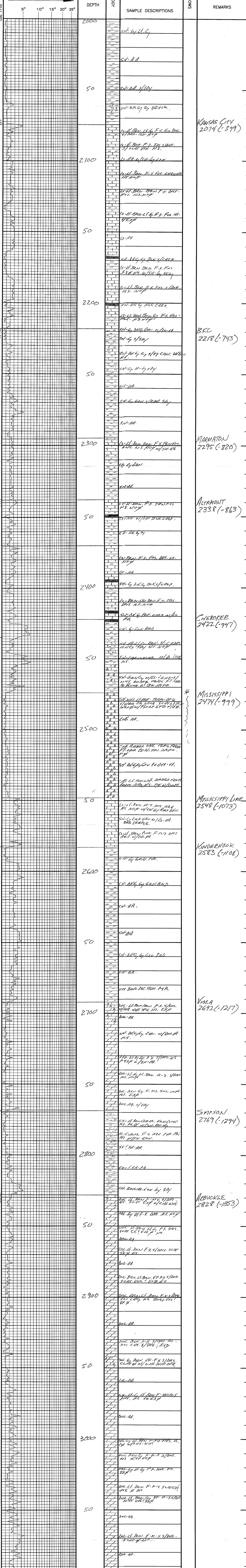
2495' - 2510'
Chert - white, light brown, amber, translucent to opaque, mostly fresh, faint odor, trace light stain, no show free oil, poor porosity with trace fluorescence.

CONCLUSIONS

The decision to was made to run 5 1/2 inch casing to the Arbuckle be completed as a salt water disposal well.

LEGEND

--	--	--	--	--	--	--	--	--





Tucker
ENERGY SERVICES

COMPOSITE LOG

Company ENTRANSCO ENERGY, LLC Well T. WIEBE #31-1 SWD Field HAZLETT County BUTLER State KS Country USA API No. 15-015-24118-00-00		File No : TUL-61373 Company : ENTRANSCO ENERGY, LLC Well : T. WIEBE #31-1 SWD Field : HAZLETT County : BUTLER State : KS Country : USA API No : 15-015-24118-00-00	
Location : 120' FNL & 540' FEL NW NE NE NE		LSD : Sect : 31 Twp : 23S Rge : 5E	
Permanent Datum: Drilling Measured From: Log Measured From: Above Permanent Datum:	GL KB KB 0.00 Ft	Elevations: KB 1475.00 DF 1474.00 GL 1469.00	Services: CNT LDT MLT
Date	12-04-2018		
Run Number	0		
Depth--Driller	3100.0	Ft	
Depth--Logger	3098.0	Ft	
First Reading	3097.0	Ft	
Last Reading	214.0	Ft	
Casing--Driller	214.0	Ft	
Casing--Logger	214.0	Ft	
Bit Size	7.875	In	
Casing Size	8.625	In	
Hole Fluid Type	WBM		
Density	9.5		
Fluid Loss	9.6		
PH/Viscosity	10.0	40.0	
Sample Source	MEASURED		
RMF@Measured Temp.	2.700	@ 70 F	
RMF@Measured Temp	2.300	@ 70 F	
RMF@Measured Temp.	3.110	@ 70 F	
Source RMF/RMC	CALCULATED	CALCULATED	
RM@BHT	1.910	@ 102 F	
Time Circulation Stopped	12-05-2018 8:00 pm		
Max Recorded Temp.	102	F	
Equipment/Base	TRK-126	TULSA	
Recorded By	B.BAILEY		
Witnessed By	G.GILBERT		

The customer is hereby warned that by providing the log data herein, T. E. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. E. S. does not guarantee or warrant either expressly or impliedly, the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by T. E. S. personnel. Any interpretation, conversion or recommendation is not part of the consideration for the agreement between the parties and is not part of any part of the charge by T. E. S. for its services. Any user of the log data is warned that said user is not entitled to rely on interpretations, conversions or recommendations as aforesaid.

Bitsize Intervals		Casing Strings			
Size (In)	Bottom (Ft)	Size (In)	Weight (Lbs)	Bottom (Ft)	Top (Ft)
7.875	3100.00	8.625	17.00	214.00	0.00

Run Number	0
Date	12-04-2018
Date/Time On Bottom	12-04-2018 11:30 pm
Depth to Fluid	0.0 Ft
Salinity	0.000
RMF@BHT	1.620 @ 102 F
RMC@BHT	2.190 @ 102 F

Run Number 0

Comments

ALL PRESENTATIONS AS PER CUSTOMER REQUEST.

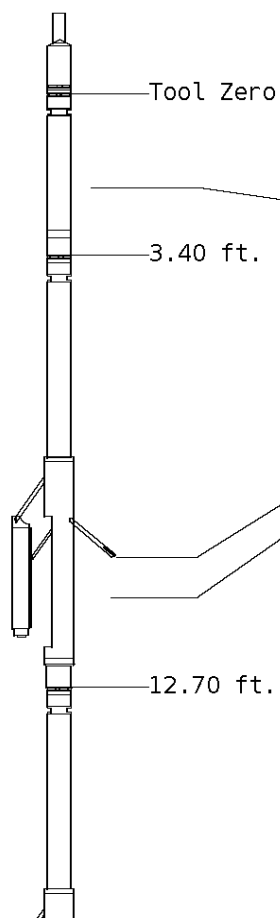
GRT, CNT, LDT, MLT, AND PIT RUN IN COMBINATION.
 2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.
 5.50" PRODUCTION CASING USED TO CALCULATE ANNULAR HOLE VOLUME.
 CALIPERS ORIENTED ON X-Y AXIS.
 PHIN IS CALIPER CORRECTED

GRT: GRP
 CNT: PHIN, PHINDOL, CLCNIN
 LDT: PORL, PORLDOL, LCORN, LDENN, PECLN, CLLDIN
 MLT: NOR_RF, INV_RF, MSCLPIN
 PIT: ILD, ILM, SFLAEC, SPU, CIRD

OPERATORS:
 R.NITZ
 B.BROWN

Tool String Schematic

Total Tool Length - 53.15 ft.
Maximum Outside diameter - 6.00 in.
Net Weight in Air - 943.00 lbs.



Tool: GRT-B **Length:** 3.40 ft. **O.D.** 3.60 in.
 Gamma Ray Controller

Sonde ID : GRT-BB-009

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	51.15

Tool: CNT-AA **Length:** 9.30 ft. **O.D.** 4.36 in.
 Compensated Neutron A Pad on NDT-A

Sonde ID : NDT-BB-123

Source ID : N-1045

Pad ID : CNP-AA-110

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	43.75
PHIN	6.80	10.20	42.95

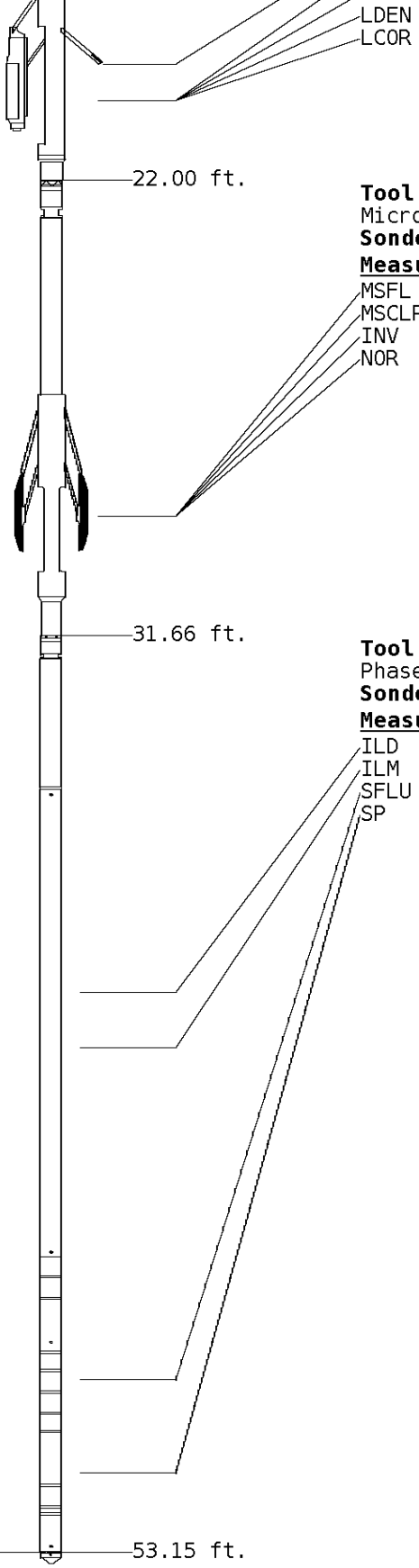
Tool: LDT-DA **Length:** 9.30 ft. **O.D.** 4.80 in.
 Litho Density D Pad on NDT-A

Sonde ID : PDT-G-426

Source ID : 2991GW

Pad ID : LDP-DA-075

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.00	18.70	34.45
PEL	7.00	19.70	33.45
PES	7.40	20.10	33.05



7.20 19.90 33.25
 7.20 19.90 33.25

Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
 Micro Spherically Focused (IC,D)
Sonde ID :MST-DA-28

Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	29.60	23.55
MSCLP	7.60	29.60	23.55
INV	7.60	29.60	23.55
NOR	7.60	29.60	23.55

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-AC-043

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	40.58	12.56
ILM	10.10	41.76	11.39
SFLU	17.49	49.15	4.00
SP	20.60	52.26	0.88

Well File: entransco t wiebe 31-1_swd_dec4_mst **Scale:** 1:240 **Format:** COMSAT
Segment: V1.D1.S4 mn **Acquired:** 2018-12/04 23:41 3.4.0-13756
Reference: 0 **Processed:** 2018-12/04 23:41 3.4.0-13756

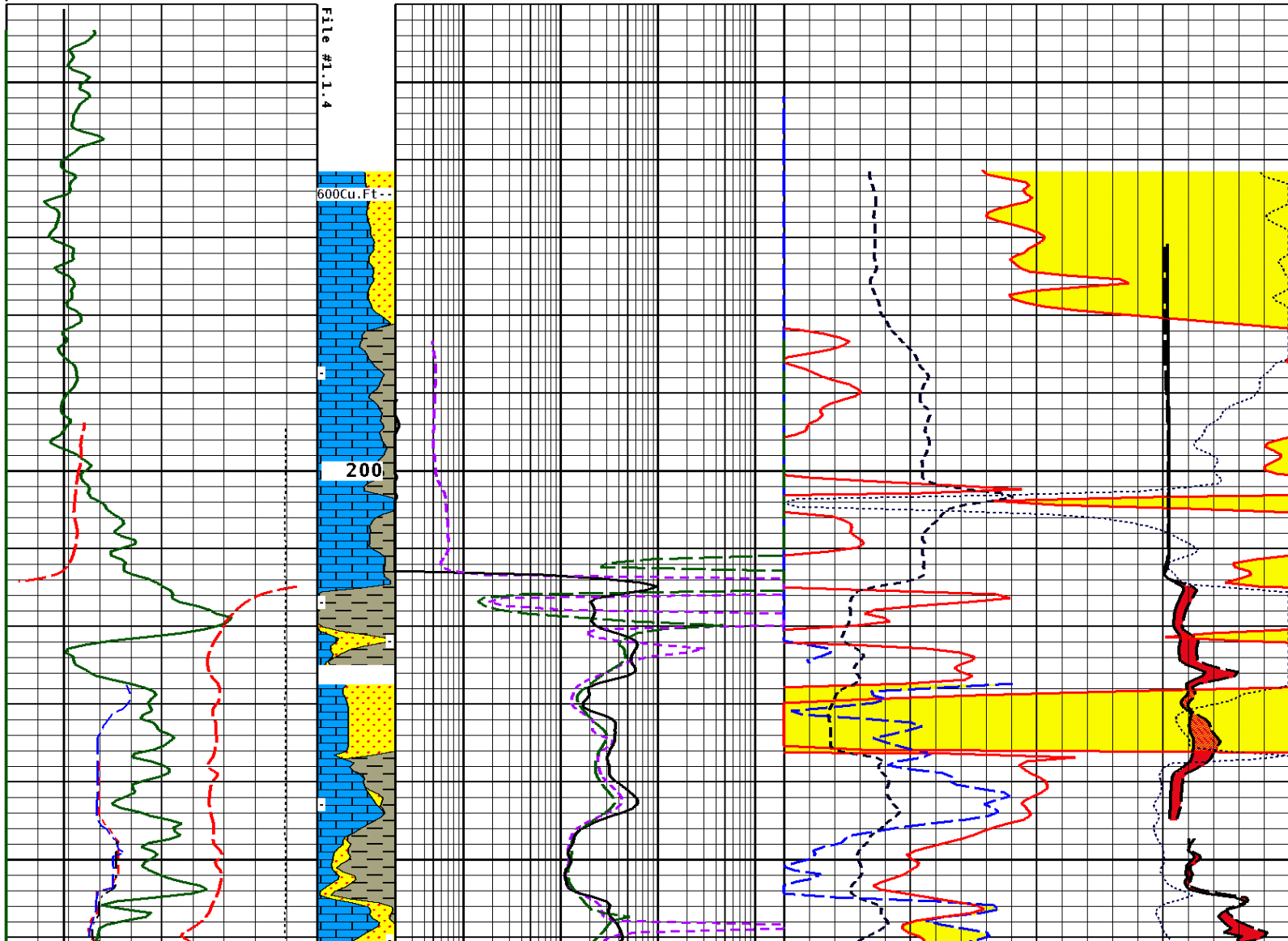
CALIPER MICRO INCHES (IN)	
16	26
6	16

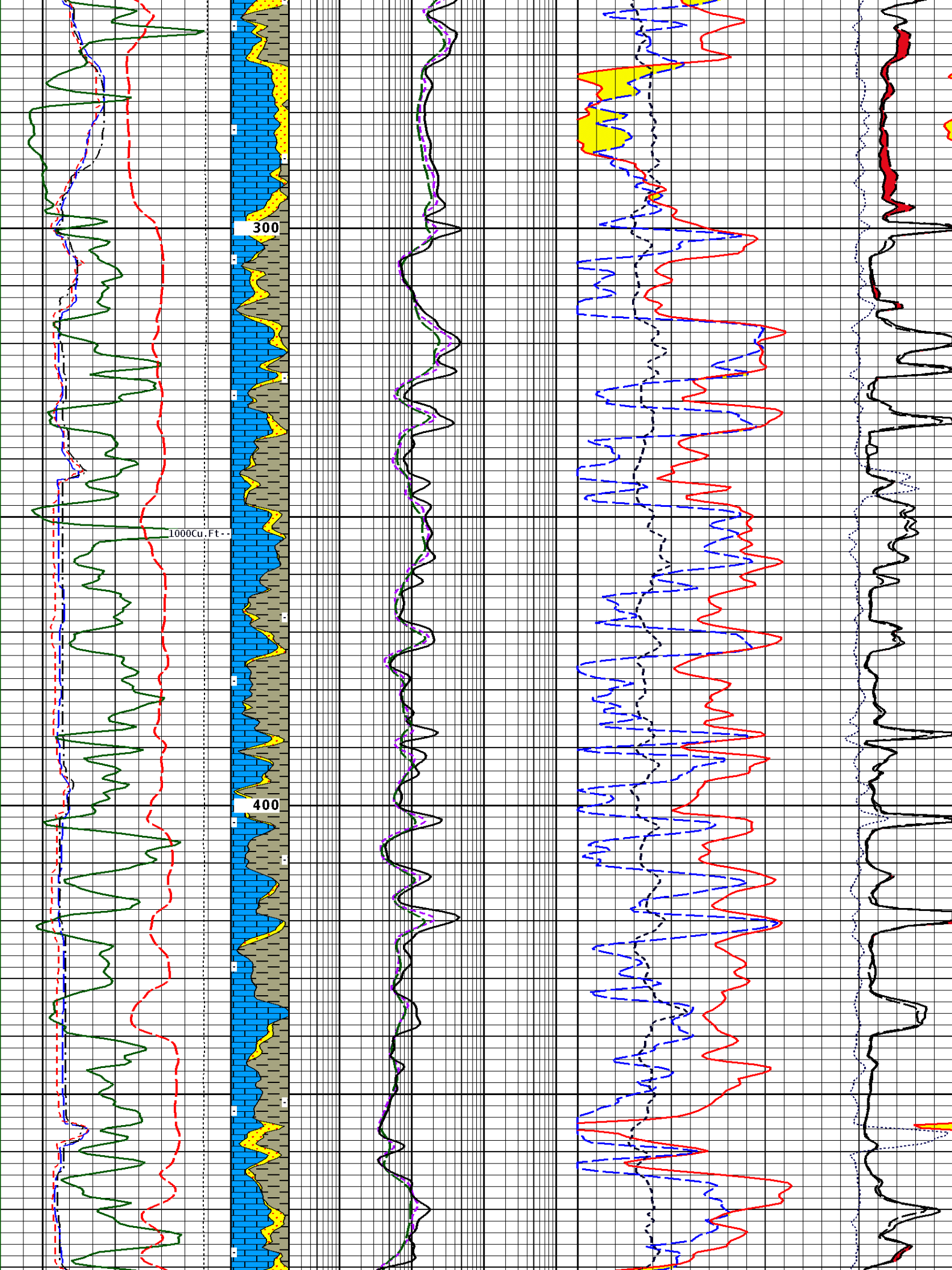
BIT SIZE INCHES (IN)

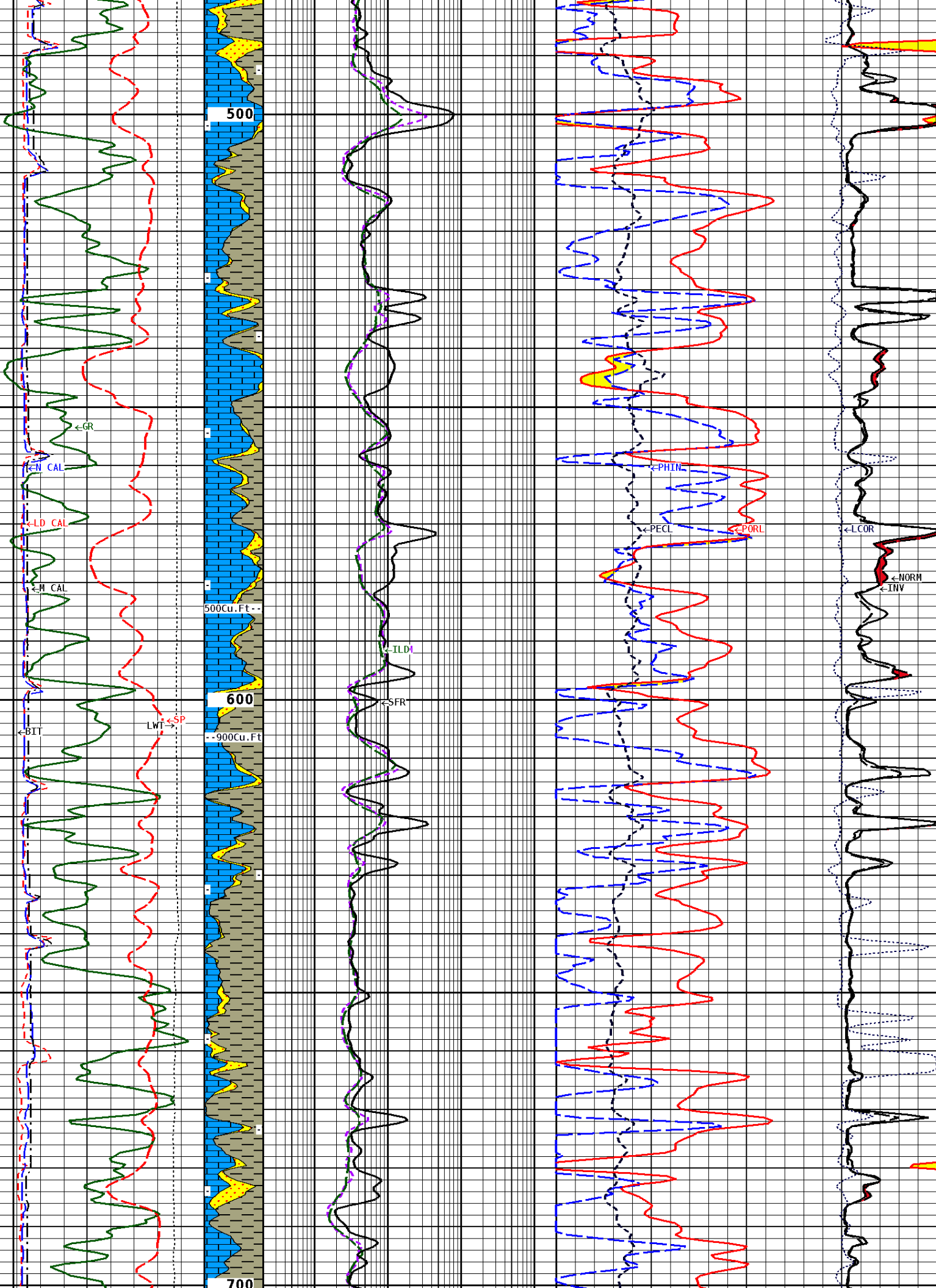
NORMAL OHNH

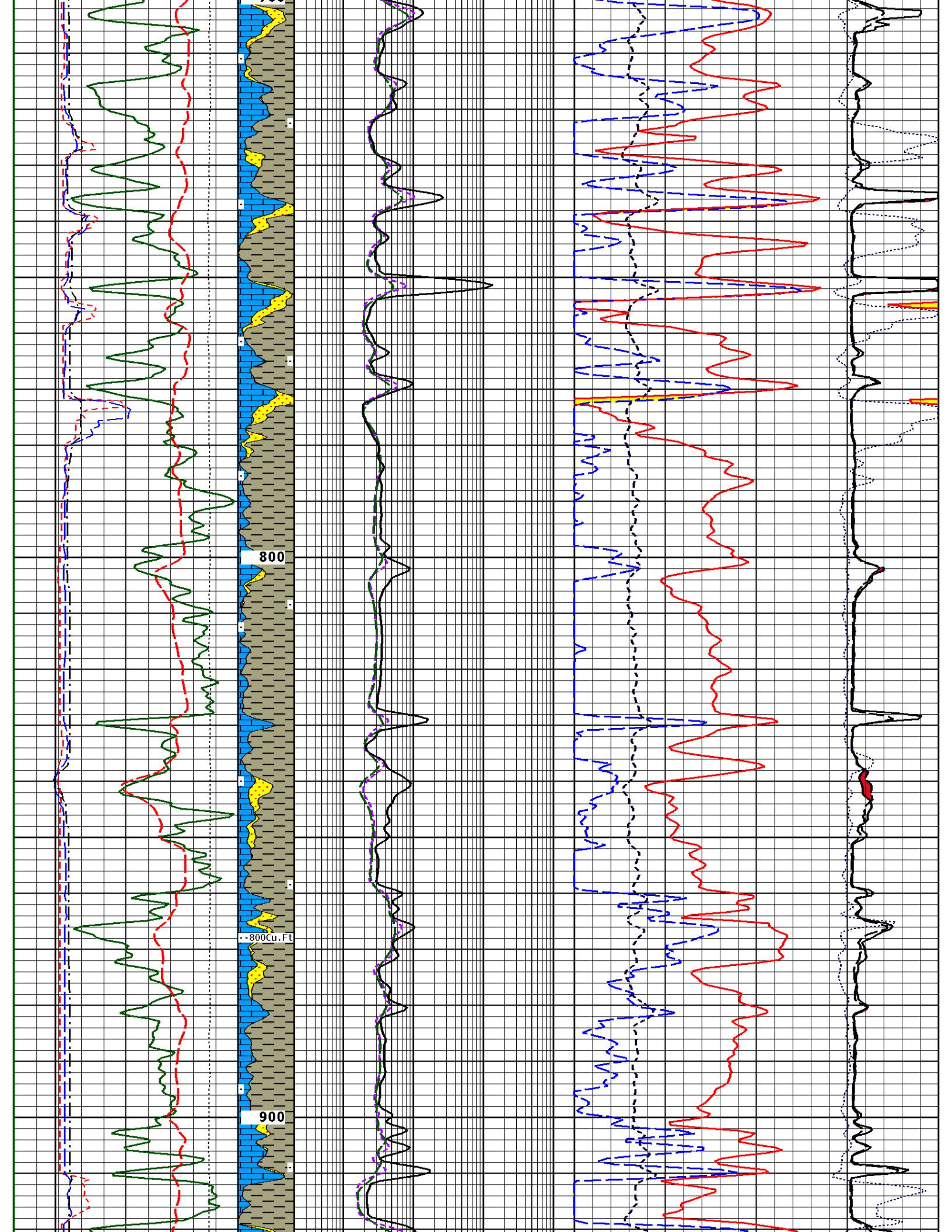
6	16				0	40
NEUTRON (Y) CALIPER INCHES (IN)					INVERSE OHMM	
16	26				0	40
6	16					
DENSITY (X) CALIPER INCHES (IN)		Volume Quartz		DENSITY CORRECTION G/CC		
16	26			-0.75	0.25	
6	16					
TENSION LBS		Volume Calcite	SHALLOW FOCUSED RESISTIVITY OHMM	PE CROSS-SECTION BARNES/ELECTRON		
10000	0		0.2	2000.0	0	20
SPONTANEOUS POTENTIAL mV		Volume Dolo/Shale	DEEP INDUCTION OHMM	DENSITY POROSITY (2.71g/cc) PERCENT		
→ ← 20			0.2	2000.0	70	30
					30	-10
					-10	-50
GAMMA RAY API UNITS		BHV AHV CU. FT	MEDIUM INDUCTION OHMM	NEUTRON POROSITY (LIMESTONE) PERCENT		
150	300		0.2	2000.0	30	-10
0	150					

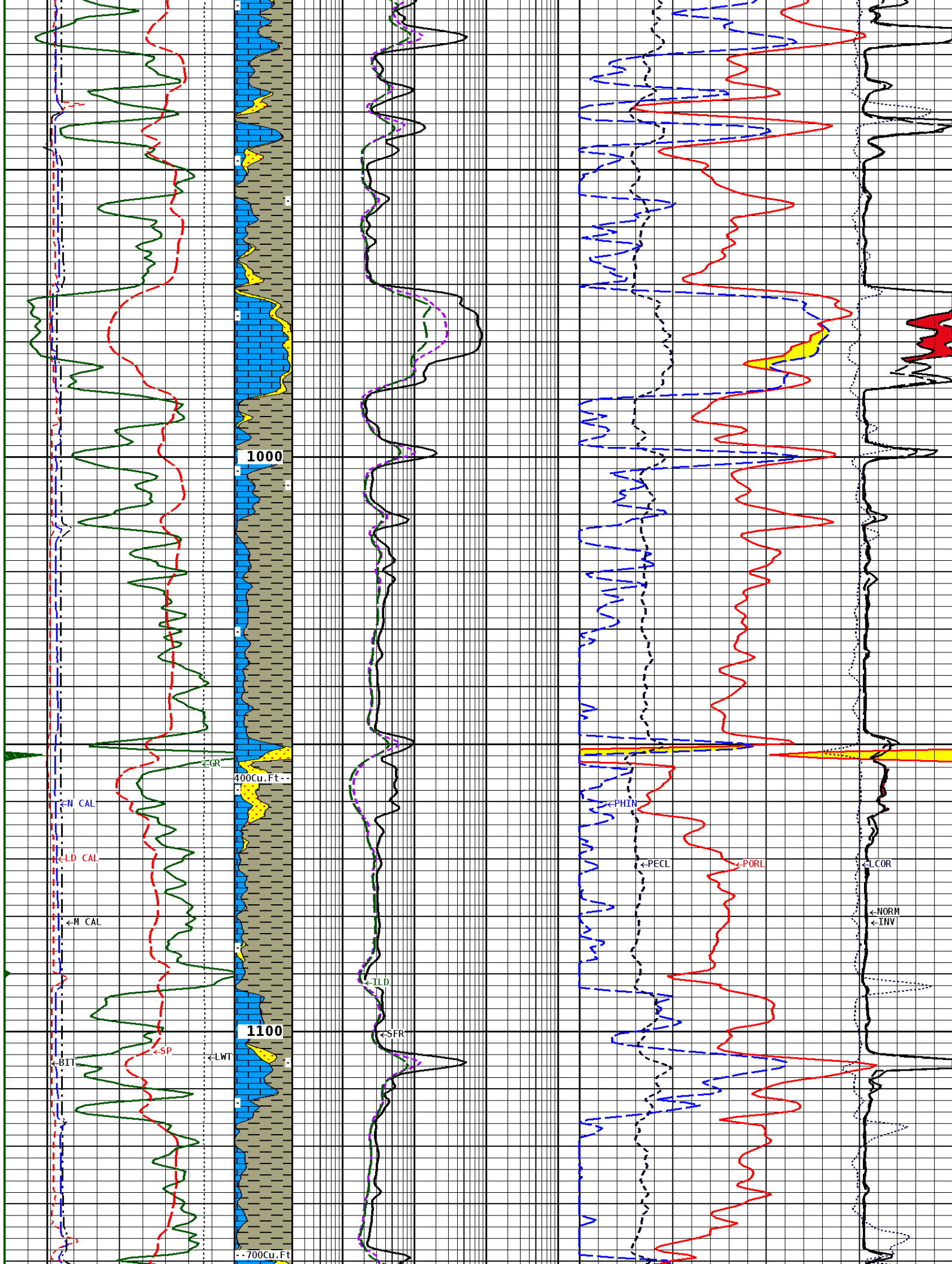
1:240 MAIN SECTION

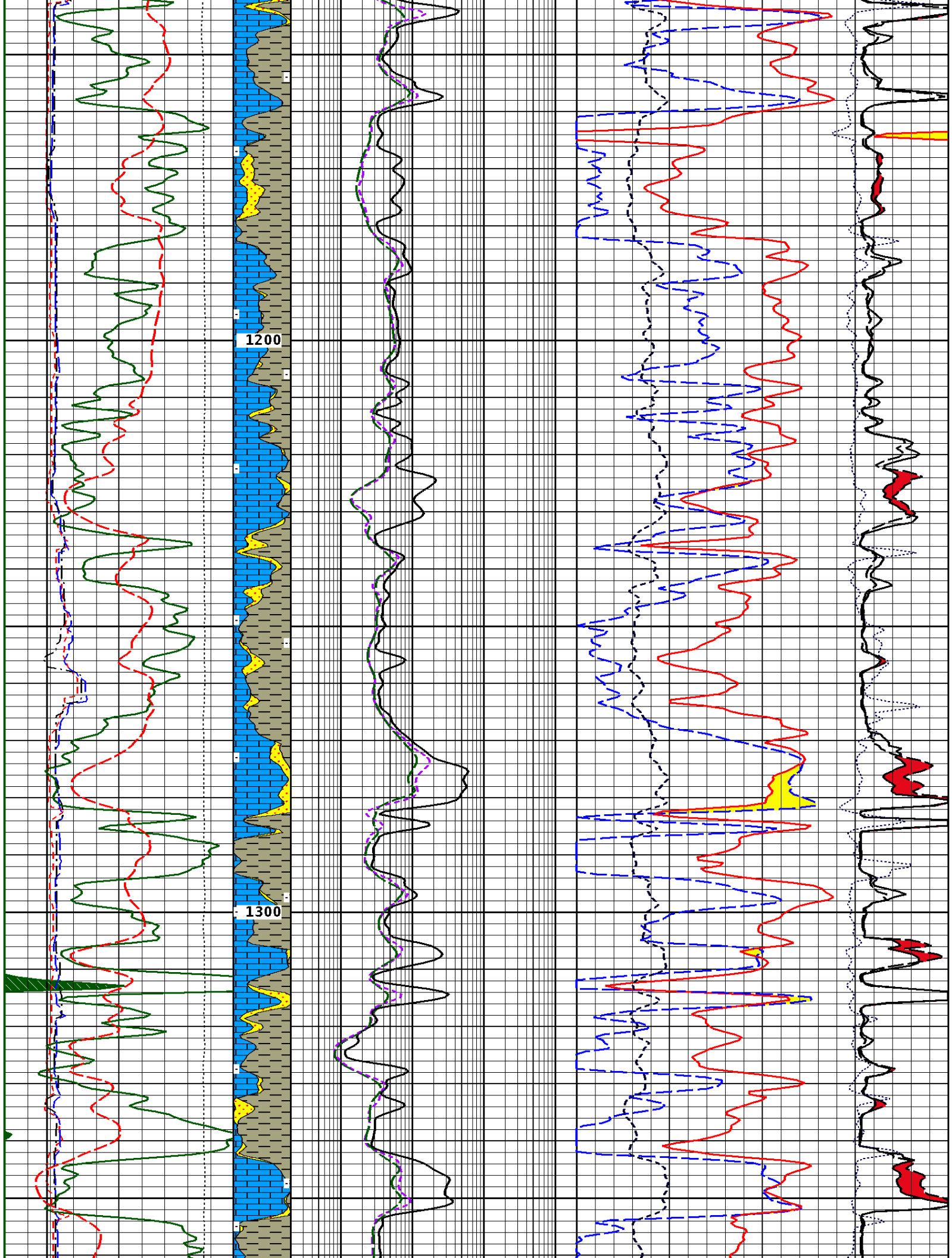


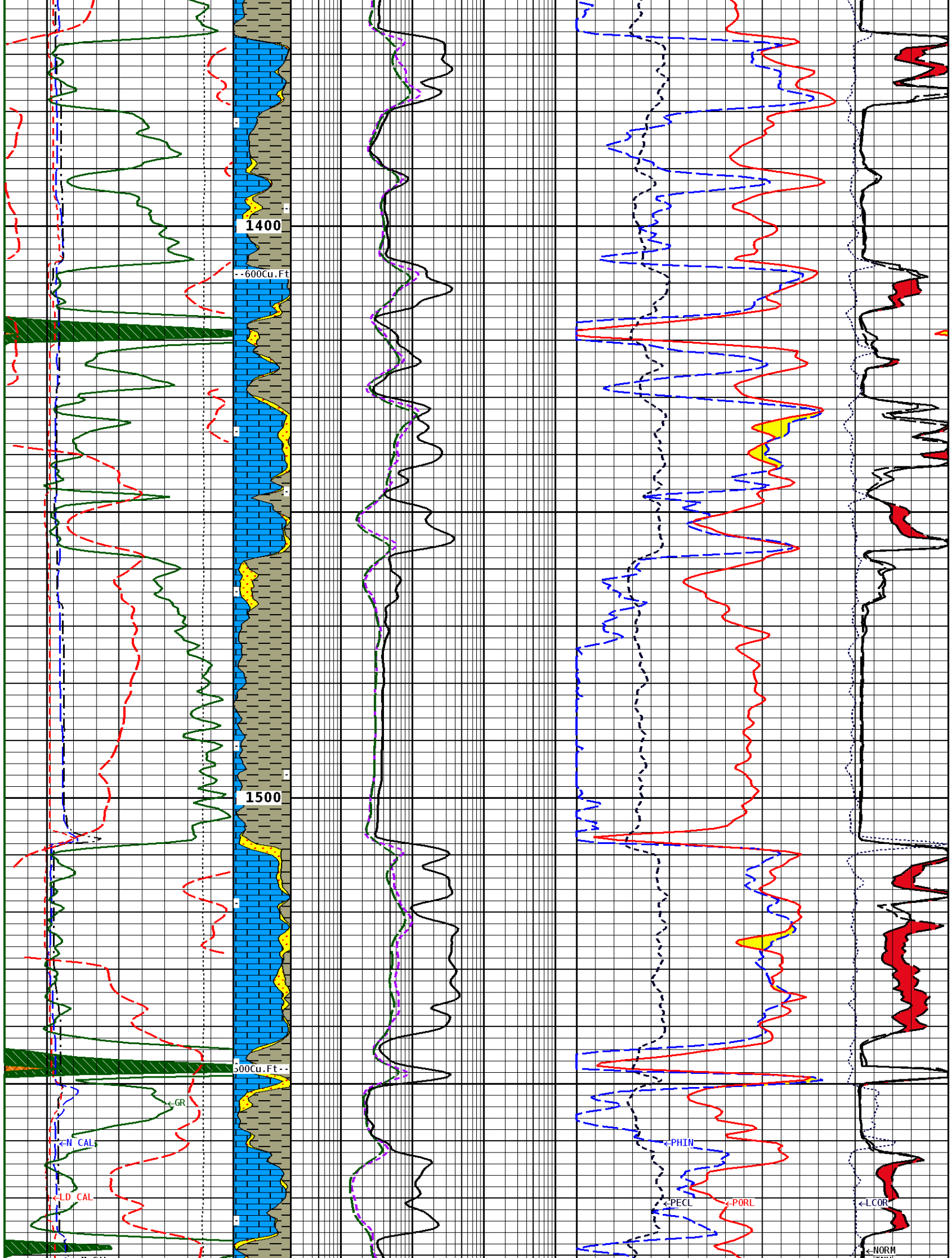


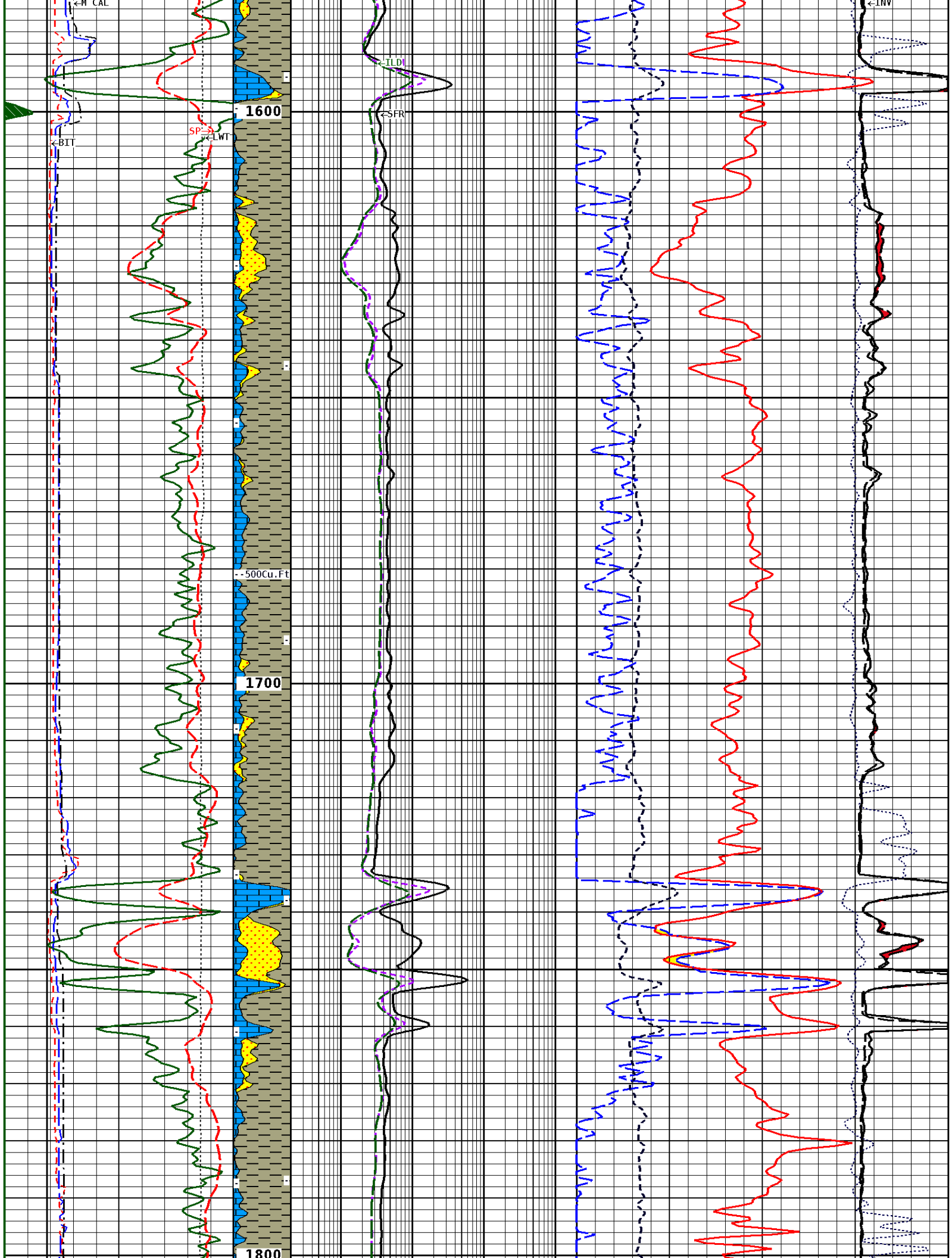


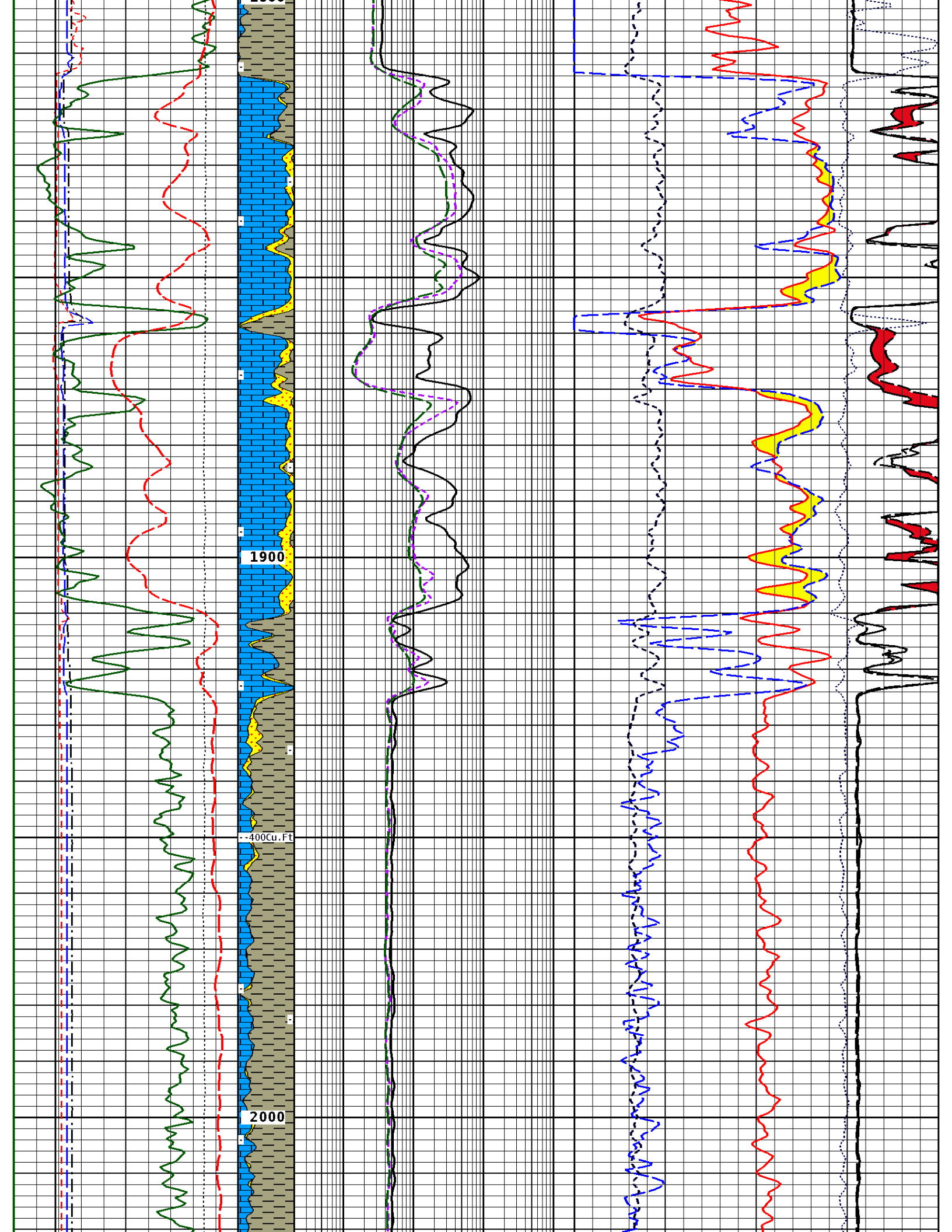


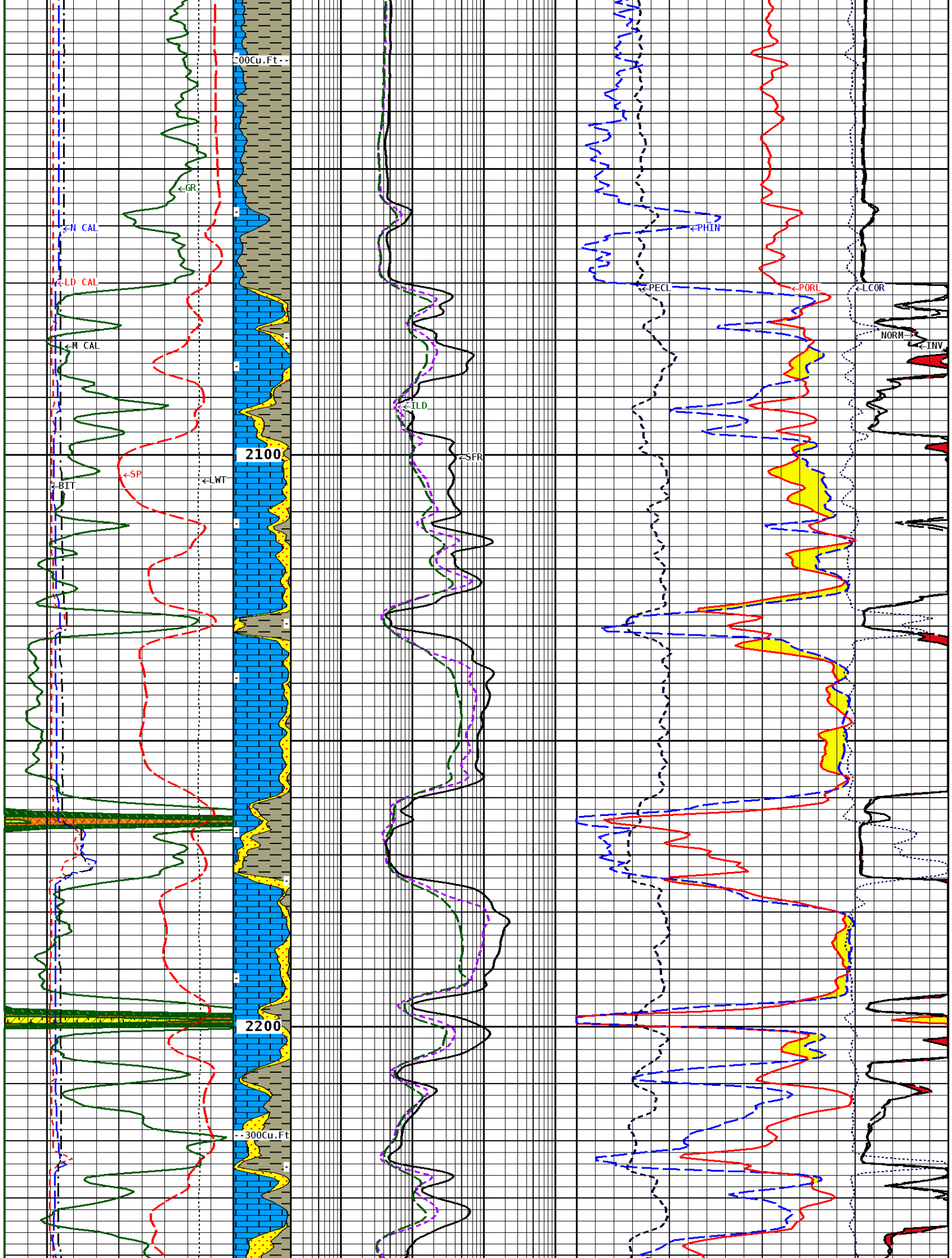


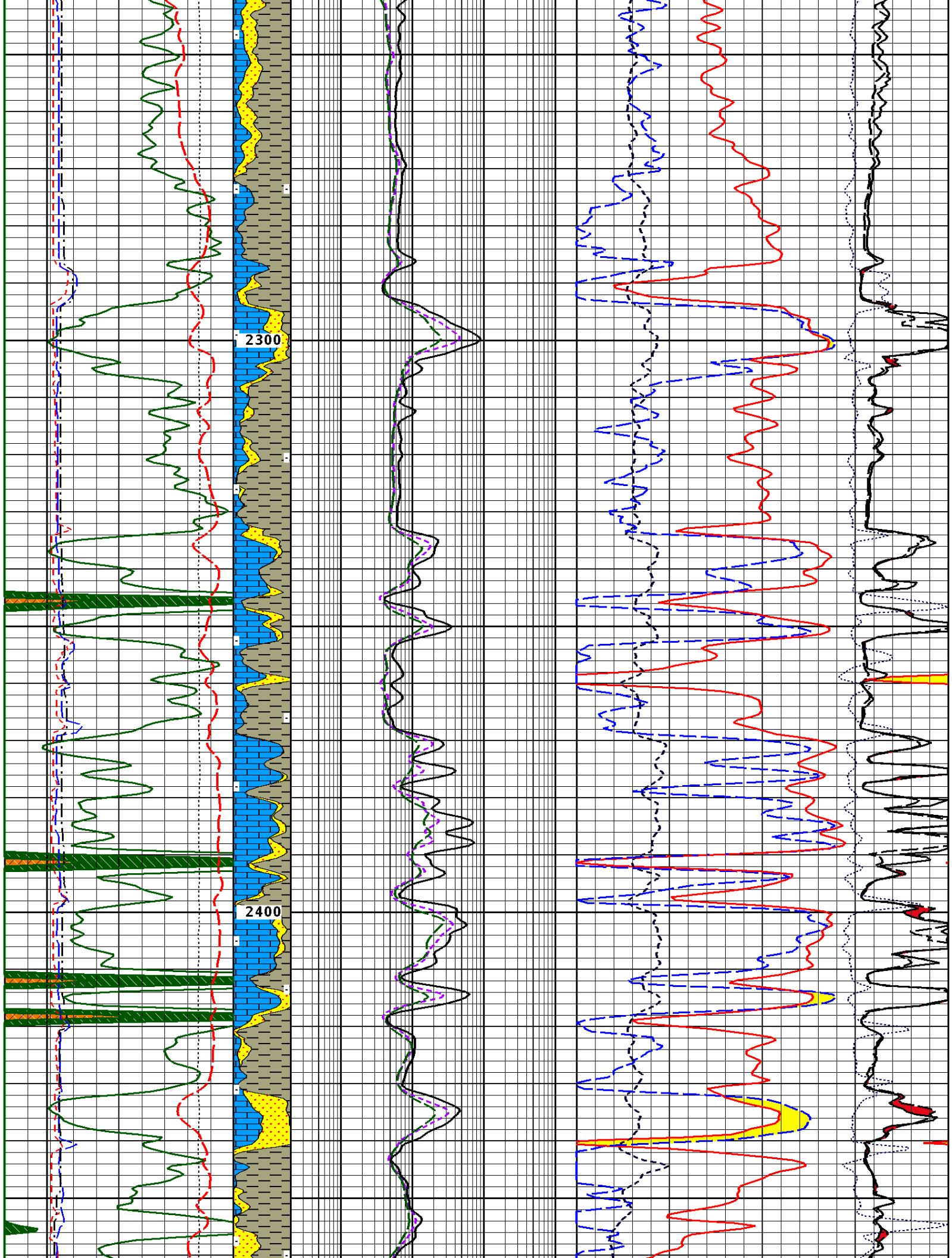


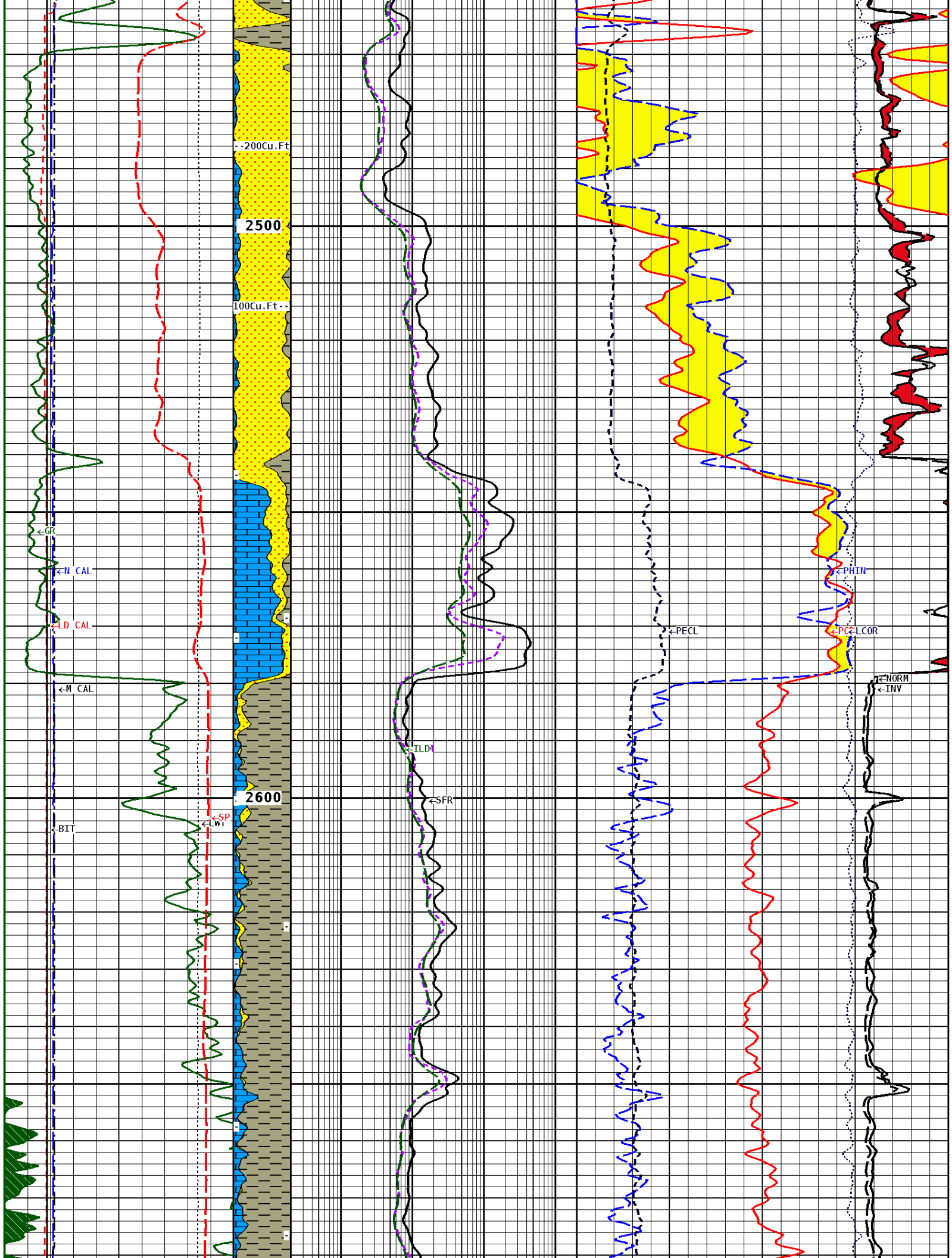


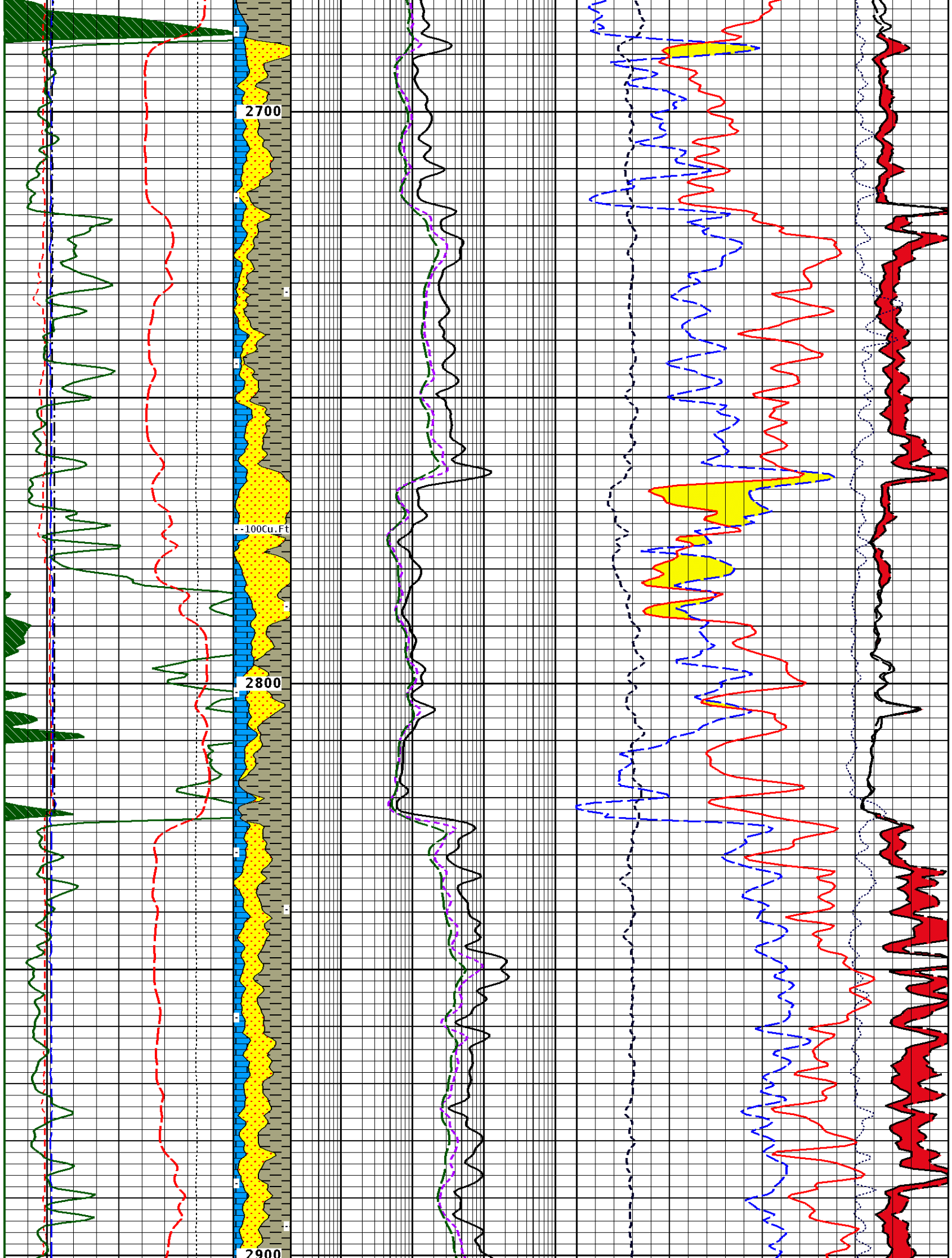


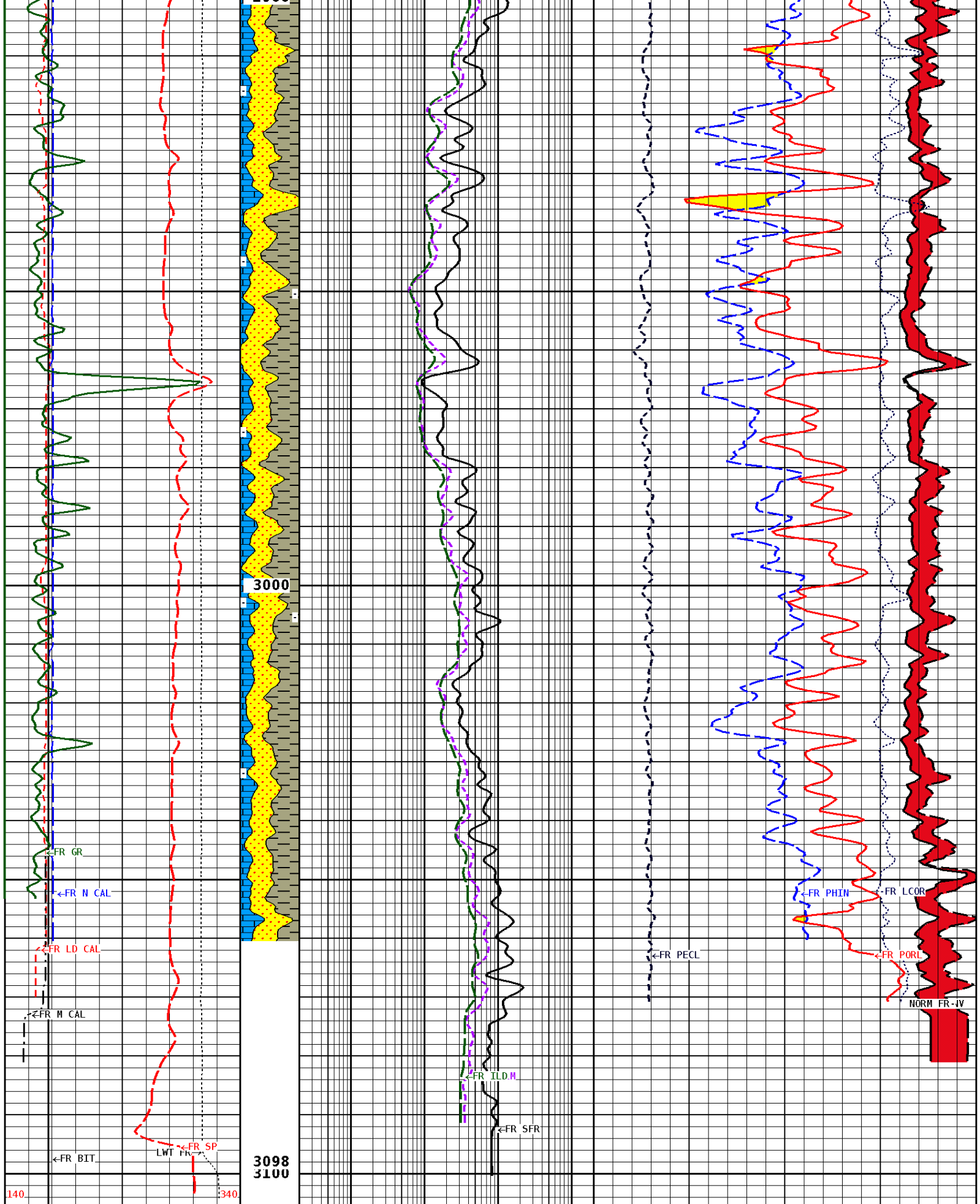












INCHES (IN)	16	26
6	16	16
BIT SIZE INCHES (IN)		
6	16	16
NEUTRON (Y) CALIPER INCHES (IN)		
16	26	26
6	16	16
DENSITY (X) CALIPER INCHES (IN)		
16	26	26
6	16	16
TENSION LBS		
10000	0	0
SPONTANEOUS POTENTIAL mV		
→ ← 20		
GAMMA RAY API UNITS		
150	300	150
0	150	150

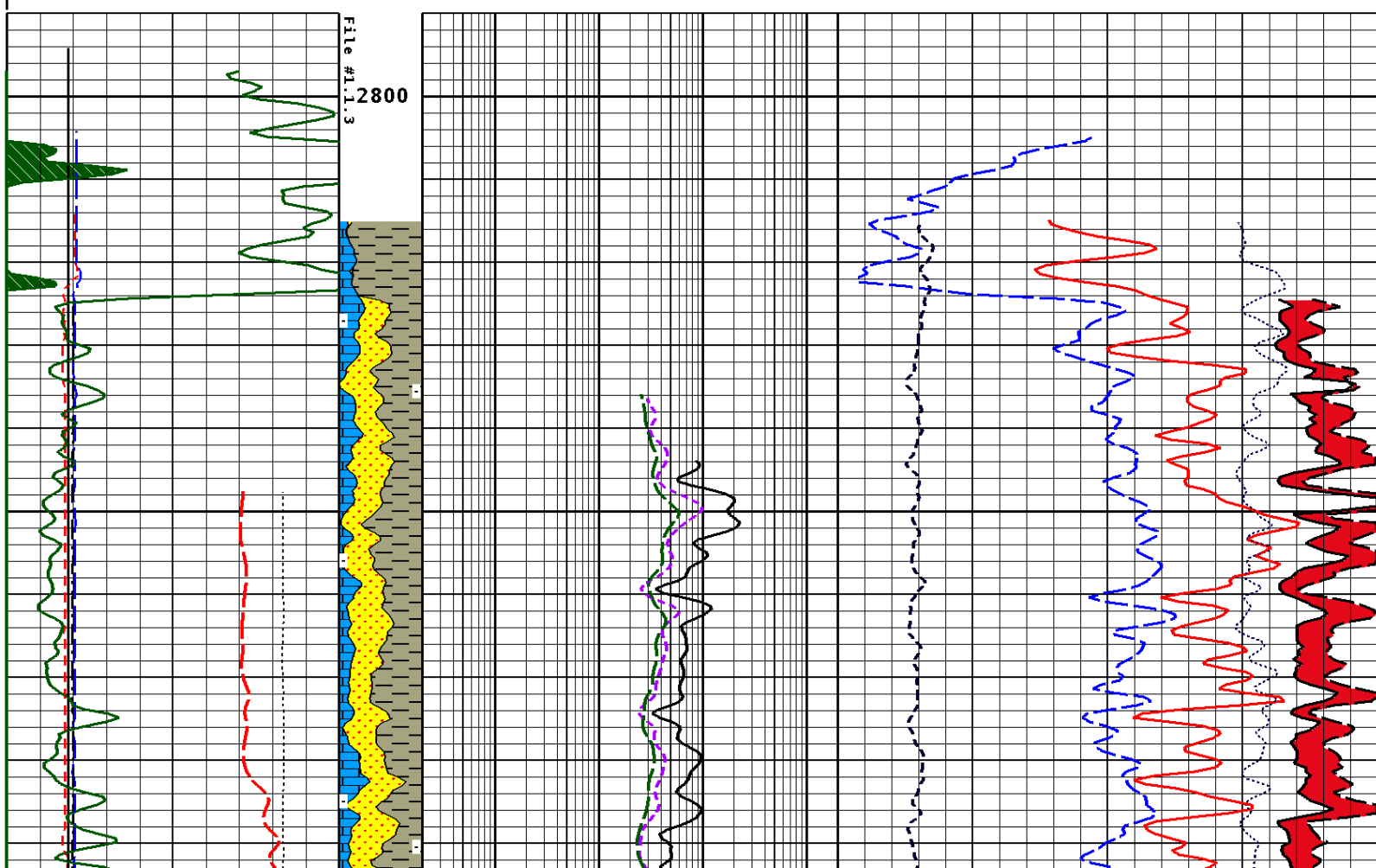
Volume Quartz	
Volume Calcite	
Volume Dolo/Shale	
BHV AHV CU.FT	

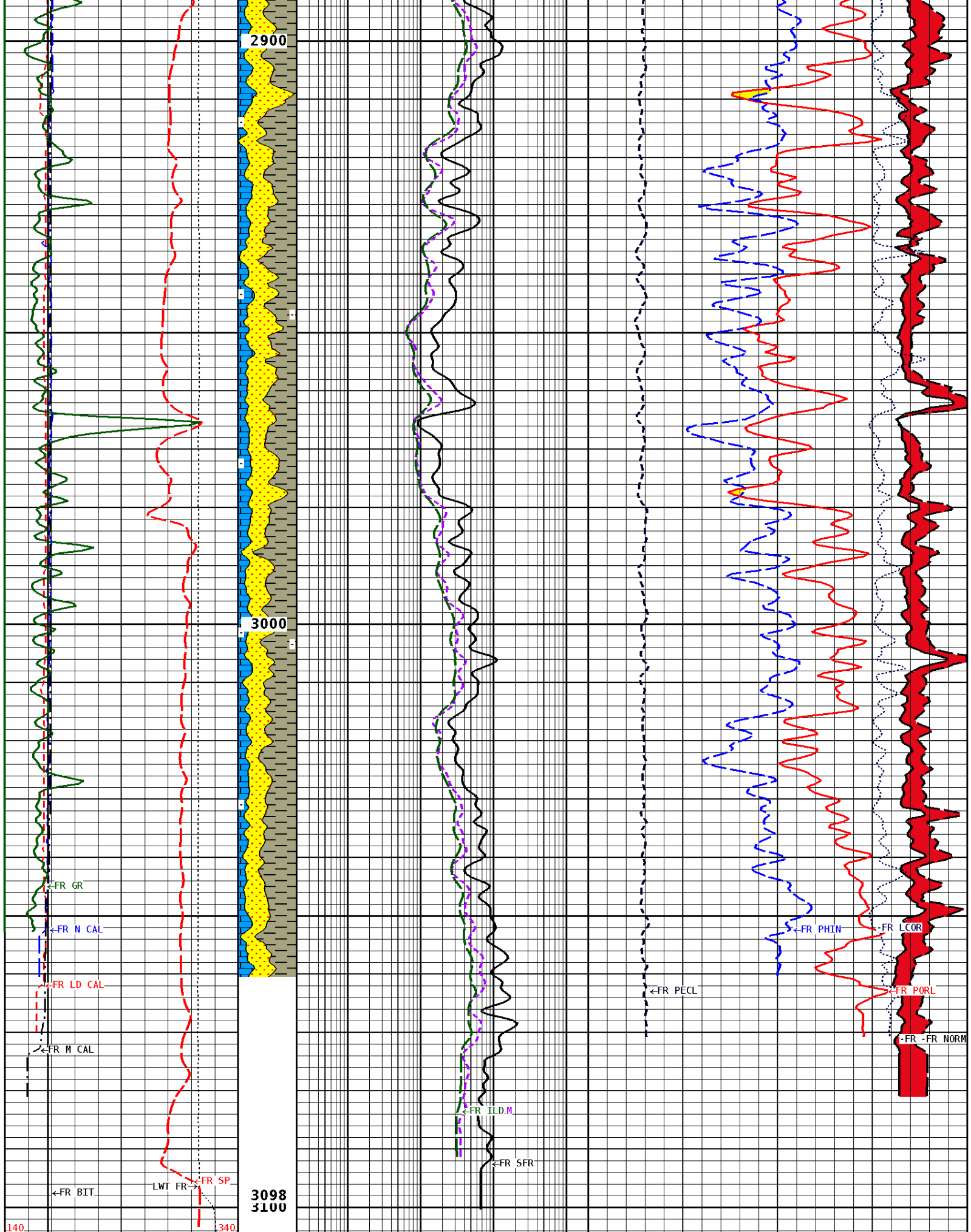
SHALLOW FOCUSED RESISTIVITY OHMM	
0.2	2000.0
DEEP INDUCTION OHMM	
0.2	2000.0
MEDIUM INDUCTION OHMM	
0.2	2000.0

DENSITY CORRECTION G/CC	
-0.75	0.25
PE CROSS-SECTION BARN/ELECTRON	
0	20
DENSITY POROSITY (2.71g/cc) PERCENT	
70	30
30	-10
-10	-50
NEUTRON POROSITY (LIMESTONE) PERCENT	
30	-10

NORMAL OHMM	
0	40
INVERSE OHMM	
0	40


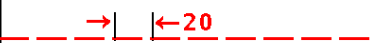
1:240 REPEAT SECTION





File #1.1.3

1:240 REPEAT SECTION

GAMMA RAY API UNITS 	BHV AHV CU. FT	MEDIUM INDUCTION OHMM 0.2 ----- 2000.0	NEUTRON POROSITY (LIMESTONE) PERCENT 30 ----- -10
SPONTANEOUS POTENTIAL mV 	Volume Dolo/Shale	DEEP INDUCTION OHMM 0.2 ----- 2000.0	DENSITY POROSITY (2.71g/cc) PERCENT 70 ----- 30 30 ----- -10 -10 ----- -50
TENSION LBS 10000 ----- 0	Volume Calcite	SHALLOW FOCUSED RESISTIVITY OHMM 0.2 ----- 2000.0	PE CROSS-SECTION BARNS/ELECTRON 0 ----- 20
DENSITY (X) CALIPER INCHES (IN) 16 ----- 26 6 ----- 16	Volume Quartz		DENSITY CORRECTION G/CC -0.75 ----- 0.25
NEUTRON (Y) CALIPER INCHES (IN) 16 ----- 26 6 ----- 16			INVERSE OHMM 0 ----- 40
BIT SIZE INCHES (IN) 6 ----- 16			NORMAL OHMM 0 ----- 40
CALIPER MICRO INCHES (IN) 16 ----- 26 6 ----- 16			

* Borehole Zone Factors *

Zone 1	99999.0 to	0.0 Feet
Matrix Density _____		2.71 g/cc
Fluid Density _____		1.00 g/cc
Formation Matrix _____		Limestone
Drill Bit Size _____		7.875 in
Casing Diameter _____		5.500 in
Casing Thickness _____		0.250 in
Casing Correction (PHI N) _____		Disable
Hole Substance _____		Fluid
BHT Depth _____	3100.000	ft
Borehole Temperature _____	102.0	degF
Temperature Gradient _____	1.00	DFHF
Resistivity Of Mud _____	2.700	ohmm
MSTNG Normal Correction _____	0.00	ohmm
MSTNG Inverse Correction _____	0.00	ohmm

* Calibration Summary *

Shop Calibration						
GRT-B						
Performed : 01-OCT-2018			Time : 10:33			
Sensor Suite : GR-GR5			ID : GRT-BB-009			
	Measured	Units	Calibrated	Units		
GR	Background	Jig	Jig	GRAPI		
	58	336	160			
Shop Calibration						
CNT-AA						
Performed : 01-OCT-2018			Time : 12:20			
Sensor Suite : CALI-BCN			ID : NDT-BB-123			
	Jig - Measured	Jig - Calibrated	Units			
CL # 1	Ring#1	Ring#2	Ring#1	Ring#2		
	9.6	14.5	6.0	12.0	IN.	
Shop Calibration						
CNP-AA-110						
Performed : 21-Nov-2018			Time : 10:04			
Sensor Suite : BHC NEUT			ID : CNP-AA-110			
Source ID : N-1045						
	Measured	Tank	Verification	Units		
N/F		Calibrated	Jig			
Porosity	3.7255	3.6893	3.6864			
	21.1	20.5	20.5	%		
Shop Calibration						
LDT-DA						
Performed : 11-MAR-2015			Time : 16:09			
Sensor Suite : CALI-LTH			ID : PDT-G-426			
	Jig - Measured	Jig - Calibrated	Units			
CL # 1	Ring#1	Ring#2	Ring#1	Ring#2		
	7.6	11.5	6.0	12.0	IN.	
Shop Calibration						
LDP-DA-075						
Performed : 21-Nov-2018			Time : 12:00			
Sensor Suite : BHCPELNG			ID : LDP-DA-075			
Source ID : 2991GW						
Short Space						
	BKGD	Al	Mg	Al+Fe	Units	
LSW1	51	937	1536	606	CPS	
LSW2	54	1136	1803	798	CPS	
LSW3	209	2578	4184	2179	CPS	
LSW4	253	2266	3286	1982	CPS	
LSW5	23	44	48	40	CPS	
LSW6	68	71	74	72	CPS	
LSW7	45	46	47	47	CPS	
LSW8	1	3	4	3	CPS	
QS	0.207	0.215	0.219	0.210		
PES			2.778	5.967		
SSDN		2.600	1.680		G/CC	
Long Space						
	BKGD	Al	Mg	Al+Fe	Units	
LLW1	84	993	4104	605	CPS	
LLW2	93	1907	7679	1363	CPS	
LLW3	352	3617	13956	3111	CPS	
LLW4	447	1715	5548	1556	CPS	
LLW5	51	59	106	59	CPS	
LLW6	143	140	130	140	CPS	
LLW7	91	90	85	90	CPS	
LLW8	3	6	14	5	CPS	
QL	0.222	0.220	0.210	0.219		
PEL			2.697	5.458		
LSDN		2.600	1.680		G/CC	
Shop Calibration						
MST-DA						
Performed : 21-NOV-2018			Time : 12:15			
Sensor Suite : CALI-MSN			ID : MST-DA-28			
	Jig - Measured	Jig - Calibrated	Units			
CL # 1	Ring#1	Ring#2	Ring#1	Ring#2		
	7.3	11.6	6.0	12.0	IN.	
Shop Calibration						
MSTDA-NI						
Performed : 21-Nov-2018			Time : 12:16			
Sensor Suite : MSTDA-NI			ID : MST-DA-28			
	Measured	Internal	Calibrated	Units		
INV-V	Zero	Reference	Zero	Reference	Units	
	220.0	30274.6	0.00	1546.00	MV	

NOR-V	158.0	30096.2	0.00	1546.00	MV
IN-C	153.5	30427.6	0.00	15.46	UA
INV-R				32.34	OHMM
NOR-R				55.11	OHMM

**Shop Calibration
PIT-CA**

Performed : 11-SEP-2018 Time : 11:27
 Sensor Suite : P-IND-T ID : PIT-AC-043

Medium

	Measured		Calibrated		Units
	R	X	R	X	
Air	131492	129685	0.0	0.0	MMHOS
Zero	131066	131062	-18.1	59.6	MMHOS
Reference	244915	244454	4981.9	5059.6	MMHOS
Loop	130404	210498	3515.7	3611.2	MMHOS
Sonde Error			-0.5	-1.7	MMHOS
Cond			4981.9	5059.6	MMHOS

Deep

	Measured		Calibrated		Units
	R	X	R	X	
Air	131939	129230	0.0	-0.0	MMHOS
Zero	131079	131067	-15.6	35.3	MMHOS
Reference	220620	224092	1984.4	2035.3	MMHOS
Loop	129308	206166	1595.4	1712.8	MMHOS
Sonde Error			-0.6	-7.8	MMHOS
Cond			1984.4	2035.3	MMHOS

Temperature

	Measured		Calibrated		Units
	Low	High	Low	High	
	16980.0	56920.0	70.0	350.0	DEGF

Performed : 11-SEP-2018 Time : 11:18
 Sensor Suite : SFL ID : PIT-AC-043

Internal

	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
Im	32805.1	49015.6	0.0	7028.0	uA
Ib	32766.6	49693.1	0.0	1750.0	mA
MOM1	32710.5	56307.5	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

Performed : 11-SEP-2018 Time : 11:16
 Sensor Suite : P-SP ID : PIT-AC-043

Internal

	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
	32774.5	58935.9	0.0	1000.0	mV



Company: ENTRANSCO ENERGY, LLC
 Well: T. WIEBE #31-1 SWD
 Location: 120' FNL & 540' FEL
 Logged: 12-04-2018
 K.B. Elev: 1475.0 Ft



**CEMENT BOND LOG
WITH GAMMA RAY**

Company **ENTRANSCO ENERGY, LLC**
 Well **T.WIEBE #31-1 SWD**
 Field **HAZLETT**
 County **BUTLER** State **KS**

Comp. ENTRANSCO ENERGY, LLC
 Well T.WIEBE #31-1 SWD
 Field HAZLETT
 Co. BUTLER
 State KS

Location: 120' FNL & 540' FEL
 NWNENE NE
 SEC 31 TWP 23S RGE 5E
 Permanent Datum GL Elevation 1475'
 Log Measured From KB 6' Above Perm. Datum
 Drilling Measured From KB
 Other Services
 NEU
 MAST TRAILER
 Elevation
 K.B. 1475'
 D.F. 1474'
 G.L. 1469'

Date of Service	12/17/2018			
Run Number	ONE			
Depth Driller or PBTD	3100'			
Depth Logger	2829'			
Bottom Log Interval	2822'			
Top Log Interval	00'			
Open Hole Size	7.875"			
Type Fluid	WATER			
Fluid Level	FULL			
Fluid Density	N/A			
Max. Recorded Temperature	102 DEG/F			
Max. Wellhead Pressure	00 PSI			
Wellhead Connection	FLOWTEE			
Estimated Cement Top	180'			
Unit Number	106			
Wireline Size	.288			
Location	HAYS, KS			
Recorded By	K.PFANNENSTIEL			
Witnessed By	R.GILBERT			
Tubing Record	Size	WFt	Top	Bottom
Surface Casing	8.625"		00'	214'
Production Casing	5.5"	15.5 #	00'	TD
Liner 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.
 NEWTON KS
 1ST STREET EAST TO PURITY SPRINGS RD
 2 SOUTH, WEST TO WEST SIDE OF TANKS SOUTH INTO

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: K.PFANNENSTIEL Operator: M.HISS Operator: Operator:	080554	

Log Variables

DatabaseC:\ProgramData\Warrior\Data\transco_t_wiebe#31_1swd_cbl_grn.db
Dataset field/well/cbl1/pass4/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 101	CASEOD in 5.5	CASETHCK in 0	CASEWGHT lb/ft 15.5	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08
NPORSEL Limestone	NPORSHIFT 0	PERFS 0	PPT usec 0	SRFTEMP degF 57	TDEPTH ft 2600		

Variable Description


BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude

MINATTN : Minimum Attenuation
NPORSEL : Neutron Porosity Curve Select
NPORSHIFT : NPORSHIFT
PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
WVFS8	16.36		PROBE-RBT-DIGITAL-RBL-D (080554) Probe 2 3/4" Radii Bond-Digital	8.75	2.75	100.00
WVFS7	16.36					
WVFS6	16.36					
WVFS5	16.36					
WVFS4	16.36					
WVFS3	16.36					
WVFS2	16.36					
WVFS1	16.36					
WVFCAL	16.36					
WVF3FT	16.36					
WVF5FT	15.36					
HEADVOLT	12.17	Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00	
CCL	8.39					

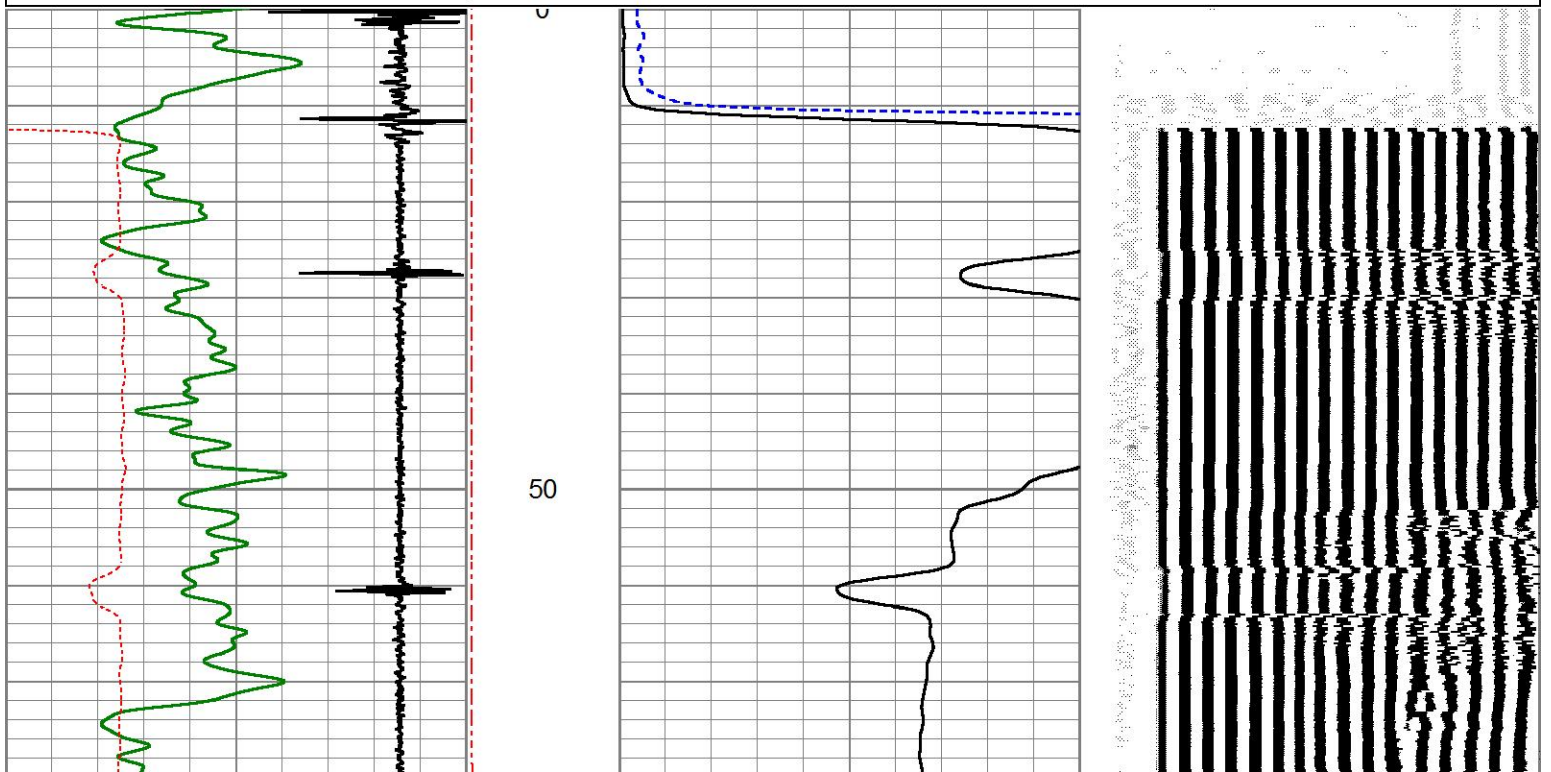
GR	7.05		GR_CCL-2 3/4" Probe (111032)	4.54	2.75	50.00
			NEU-PRNEU (ProbeNEU1)	4.75	1.88	
NEU	1.08					

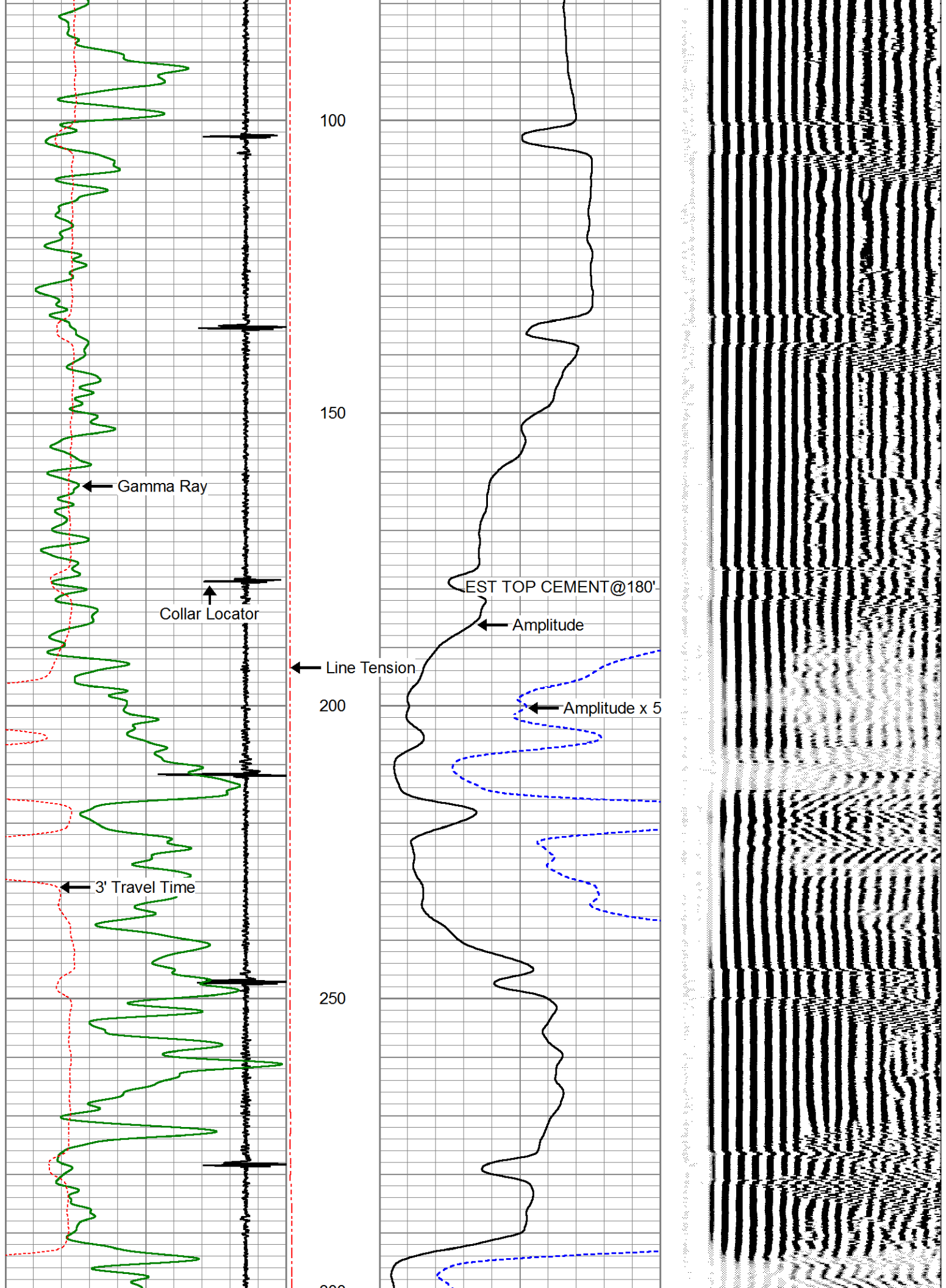
Dataset: entransco_t_wiebe#31_1swd_cbl_grn.db: field/well/cbl1/pass4
 Total length: 24.83 ft
 Total weight: 182.00 lb
 O.D.: 2.75 in

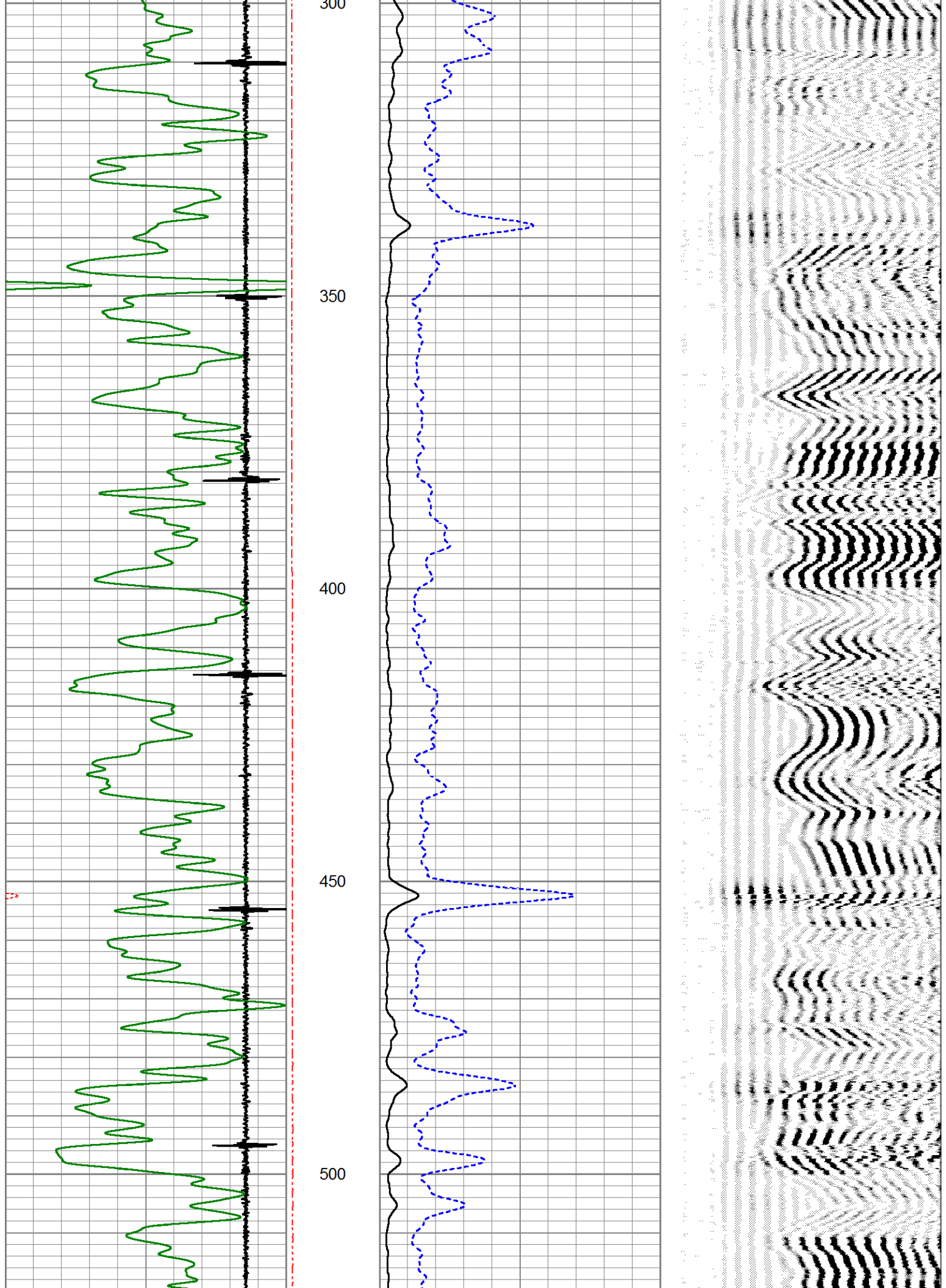
	<h1>MAIN LOG</h1>
	<h2>ZERO PSI APPLIED AT SURFACE</h2>

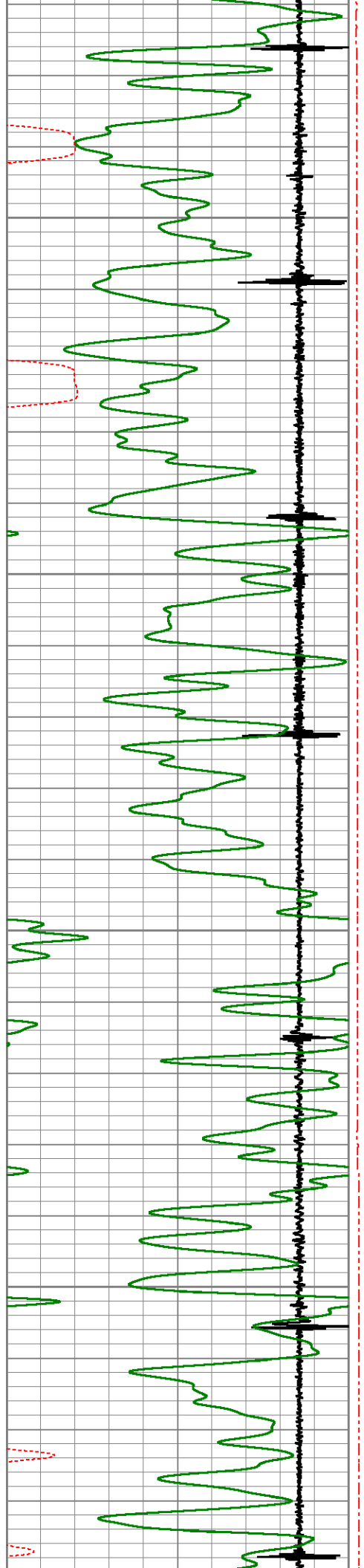
Database File: entransco_t_wiebe#31_1swd_cbl_grn.db
 Dataset Pathname: cbl1/pass4
 Presentation Format: pinr_cbl
 Dataset Creation: Mon Dec 17 17:00:28 2018
 Charted by: Depth in Feet scaled 1:240

-6	Collar Locator	1	Line Tension	0	Amplitude (mV)	100	200	Variable Density (usec)	1200
0	Gamma Ray	150	(lb2000)						
280	3' Travel Time (usec)	180							







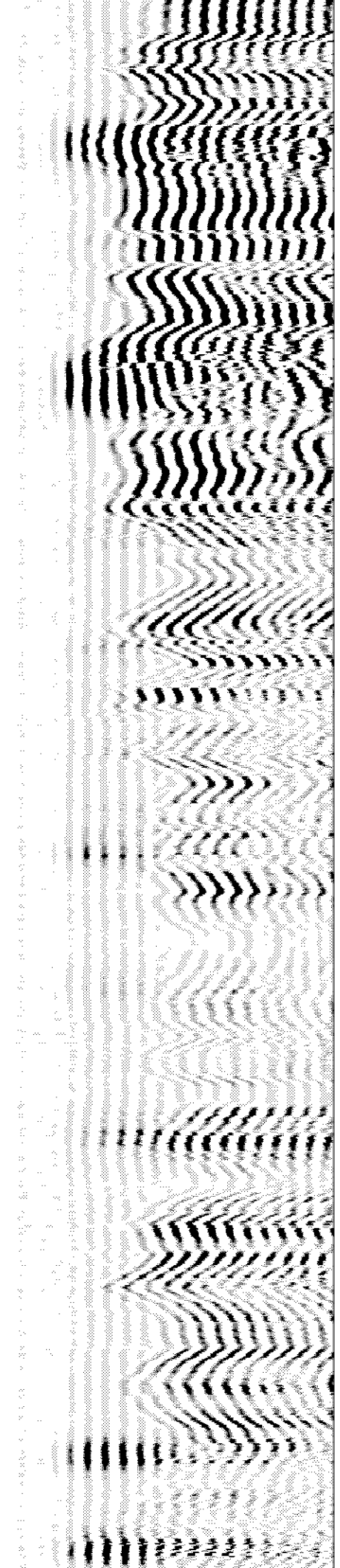
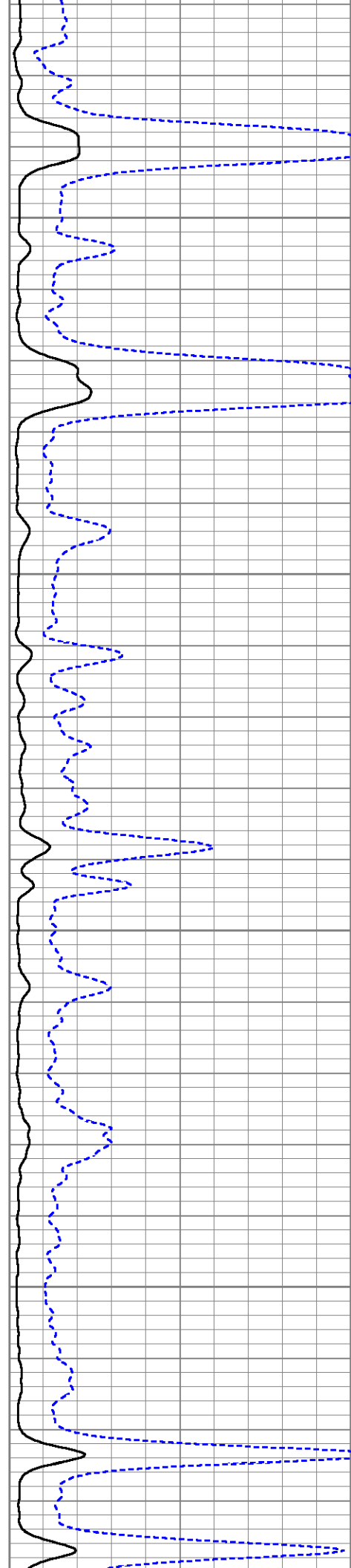


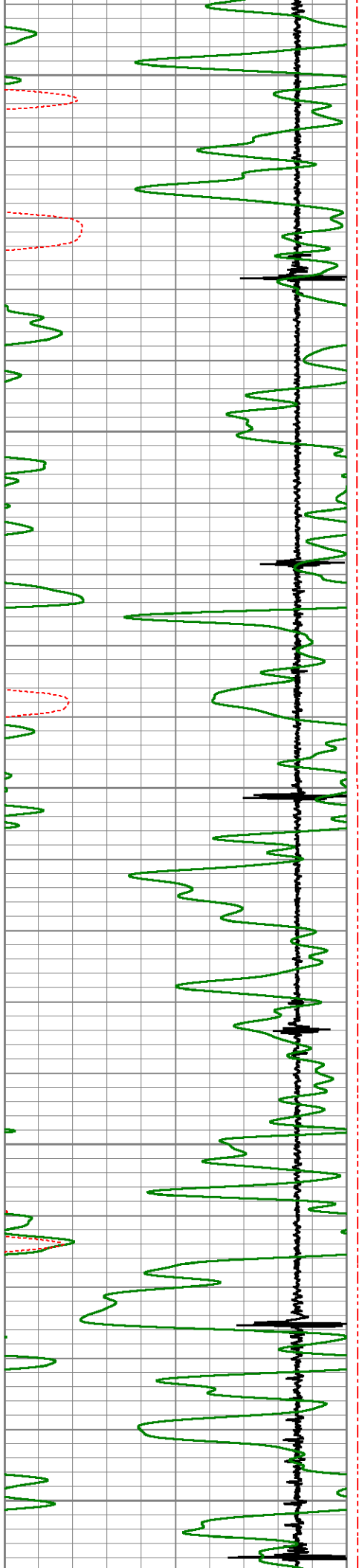
550

600

650

700





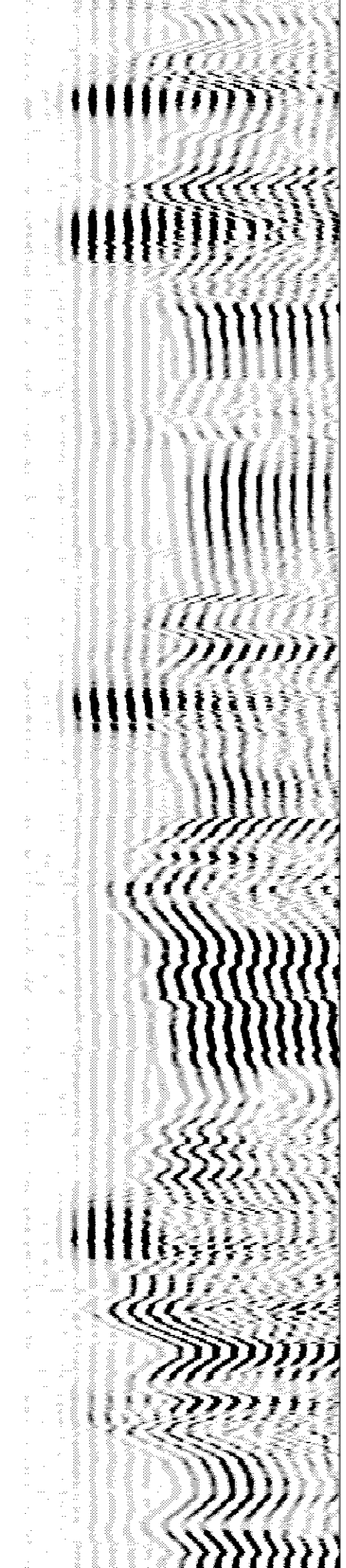
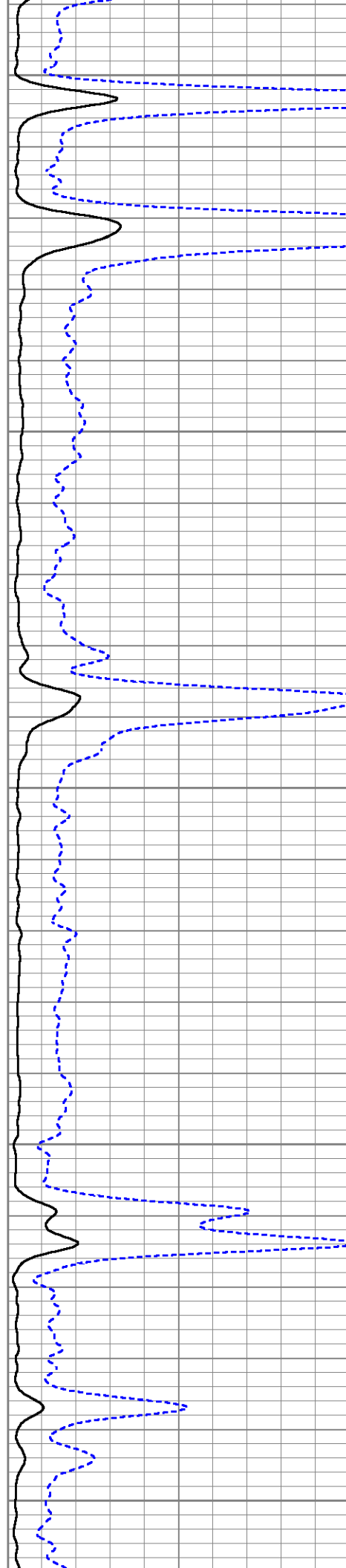
750

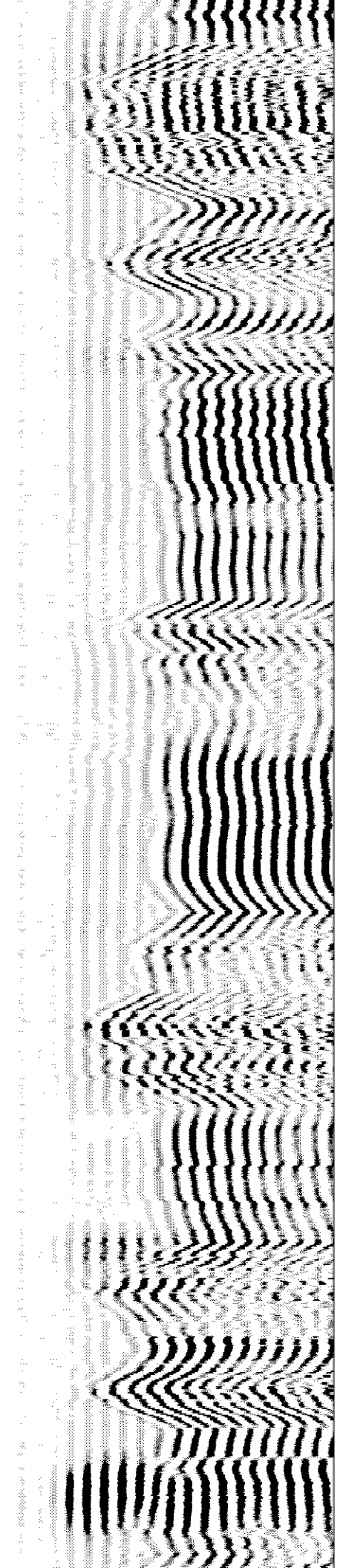
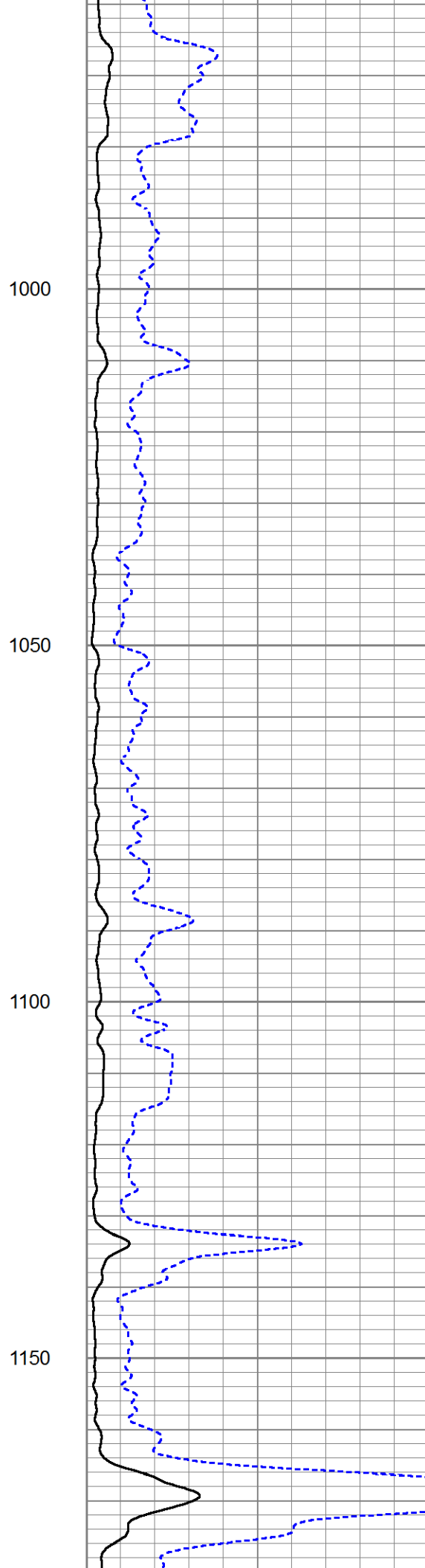
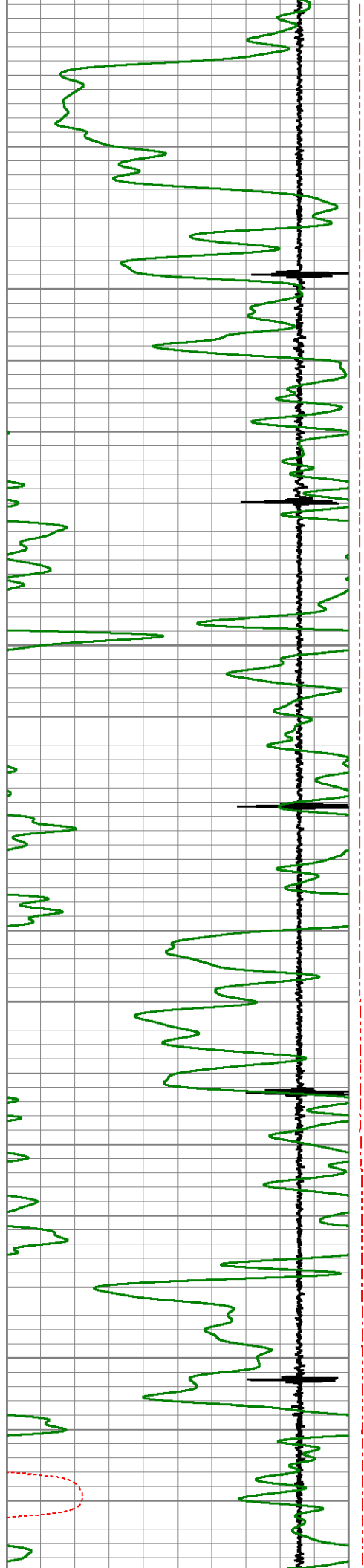
800

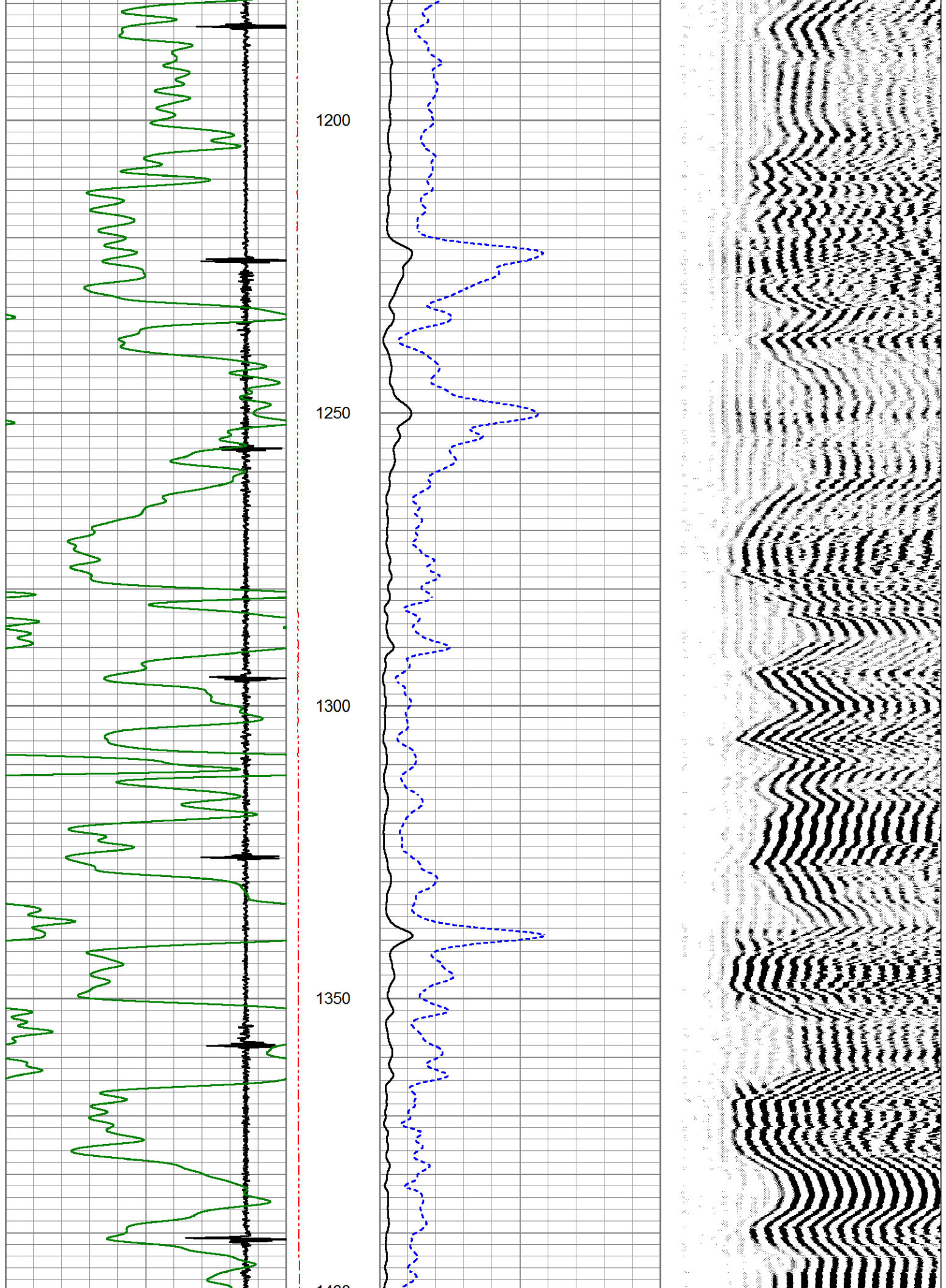
850

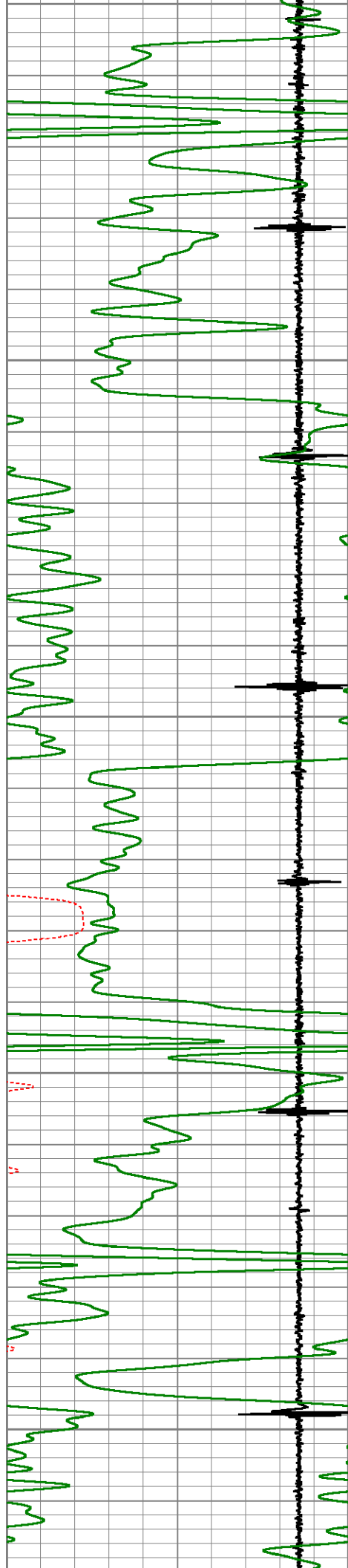
900

950









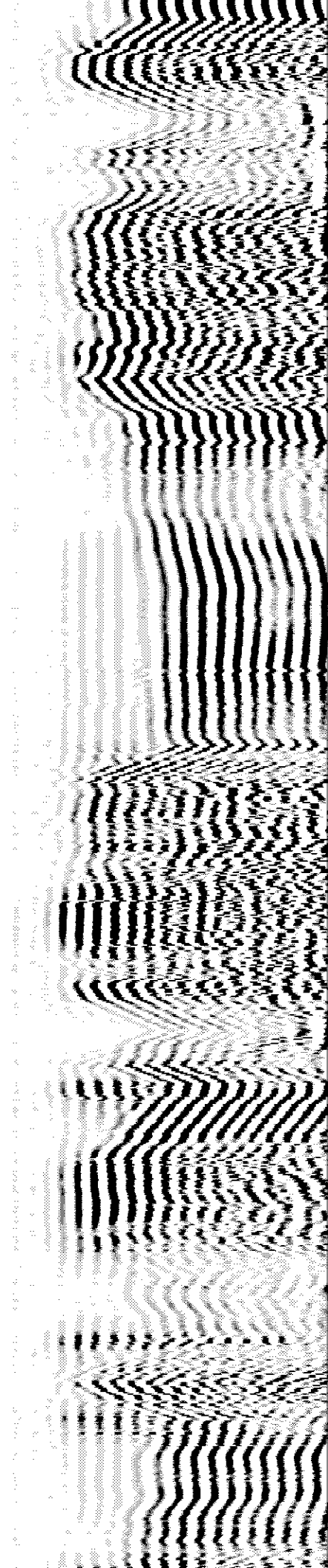
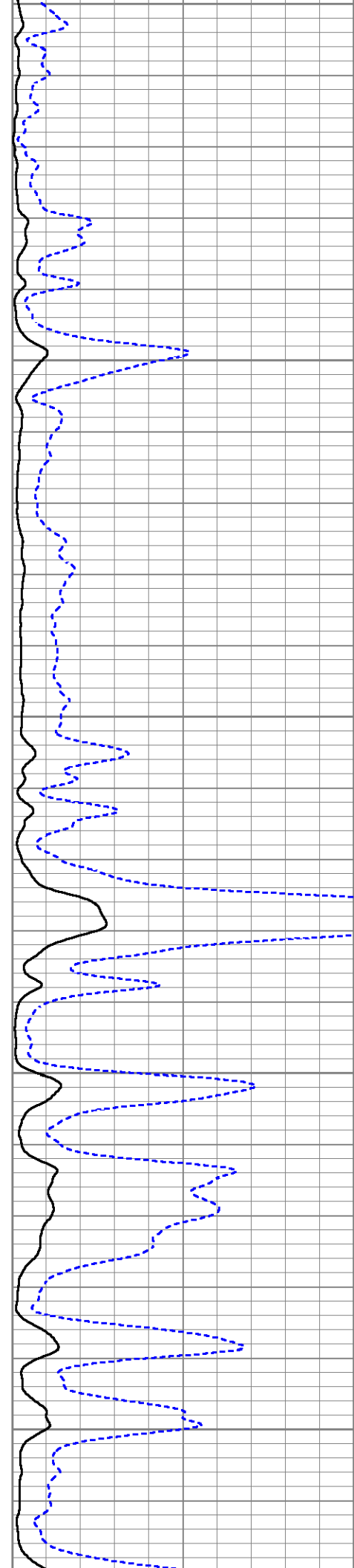
1400

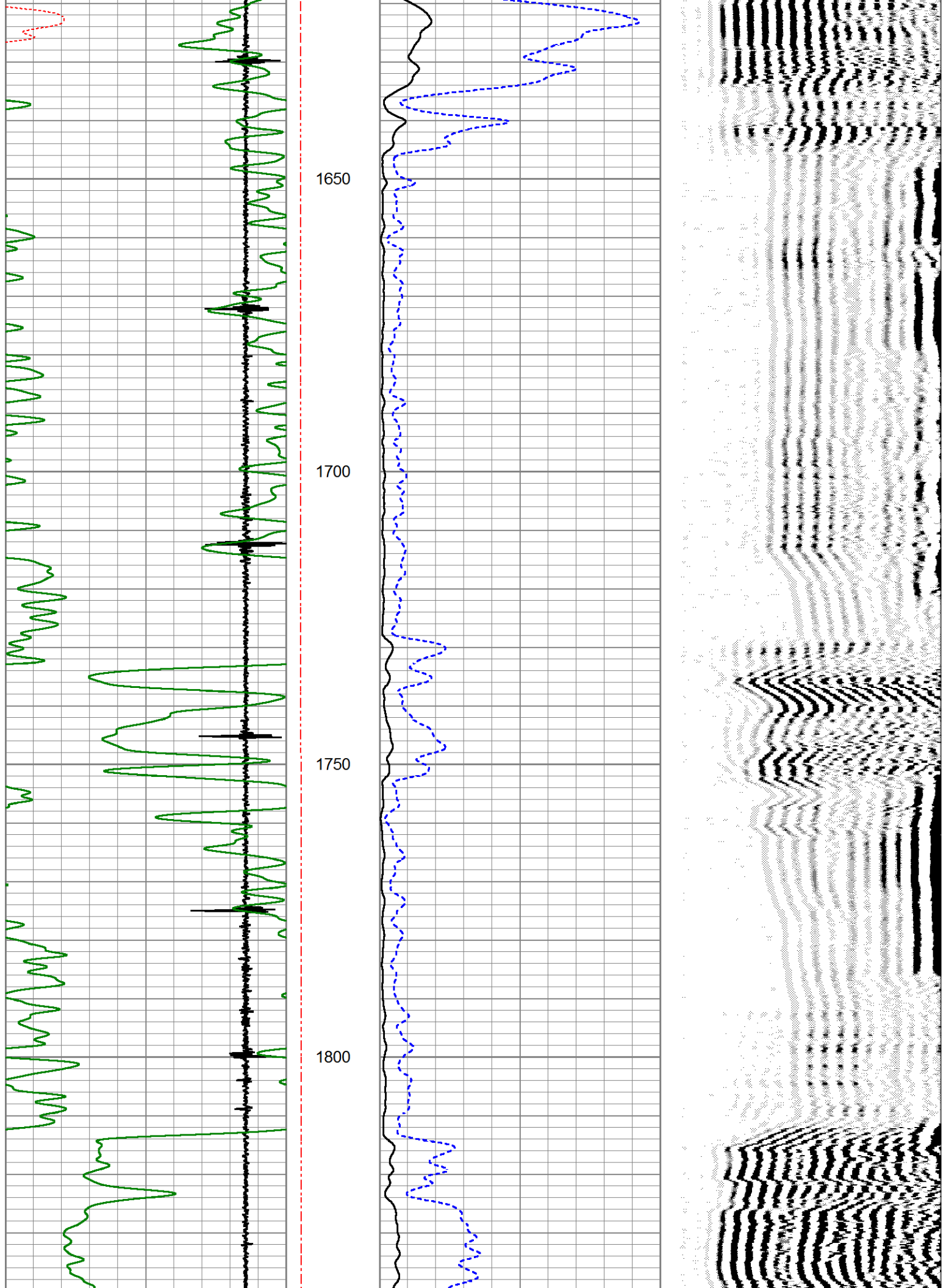
1450

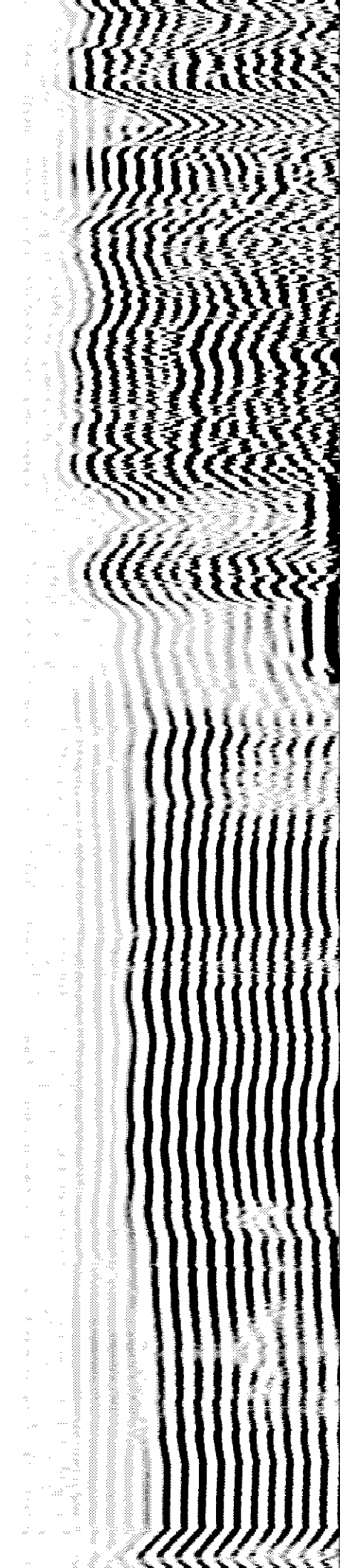
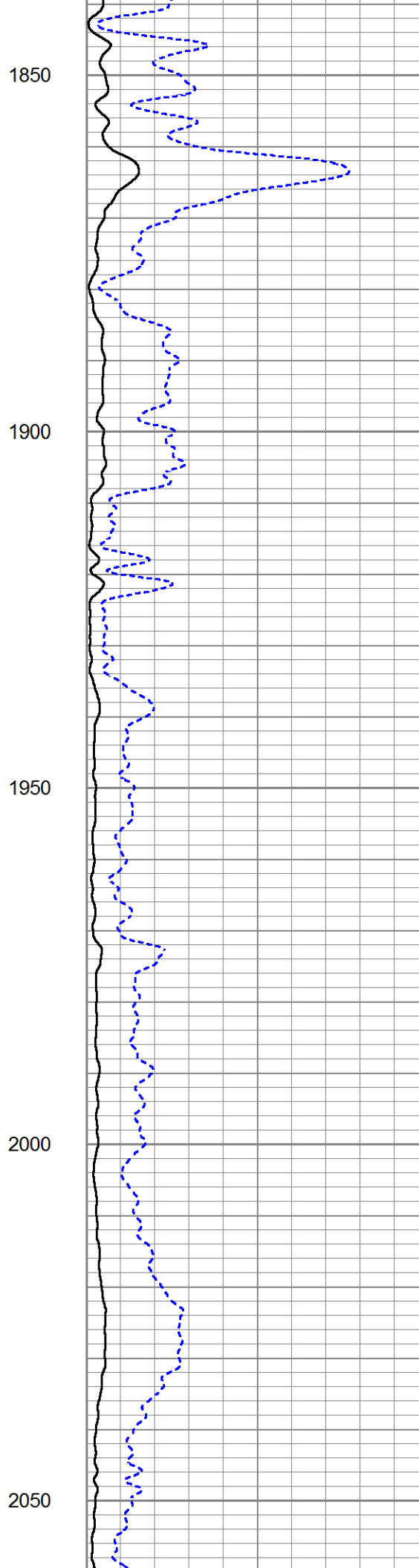
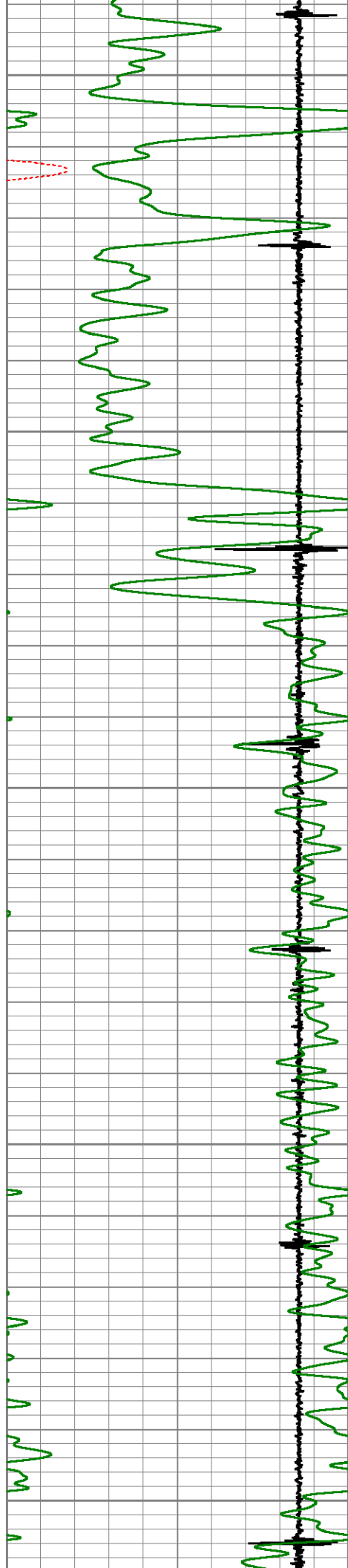
1500

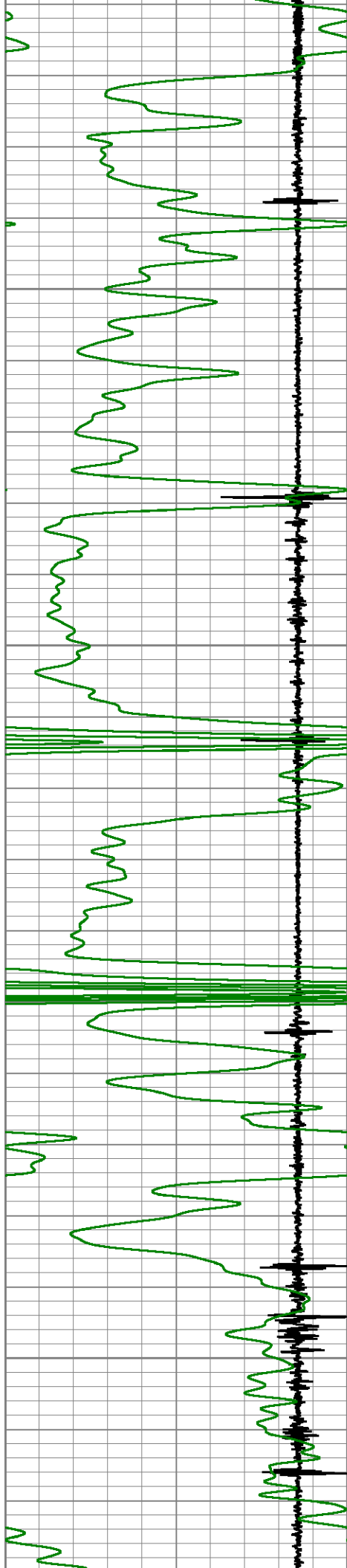
1550

1600







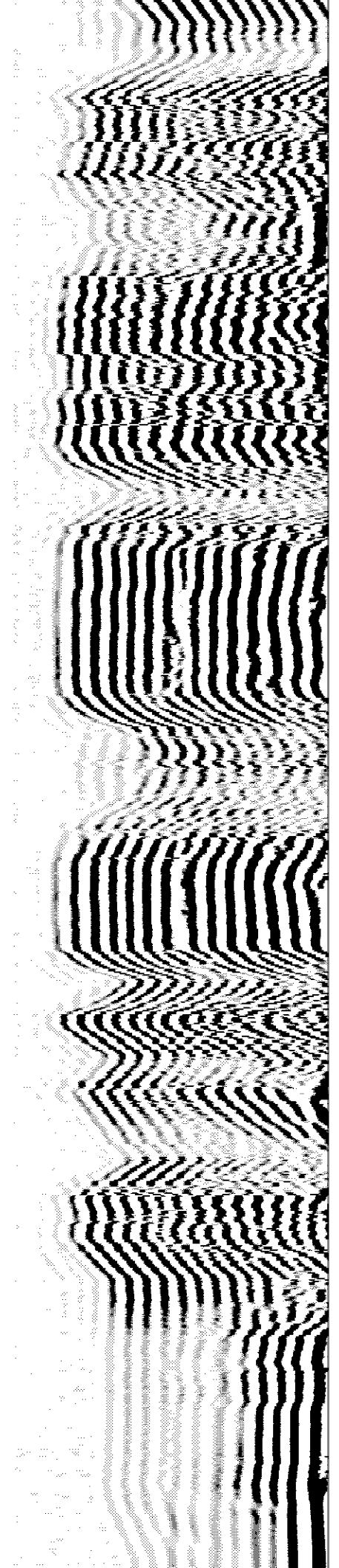
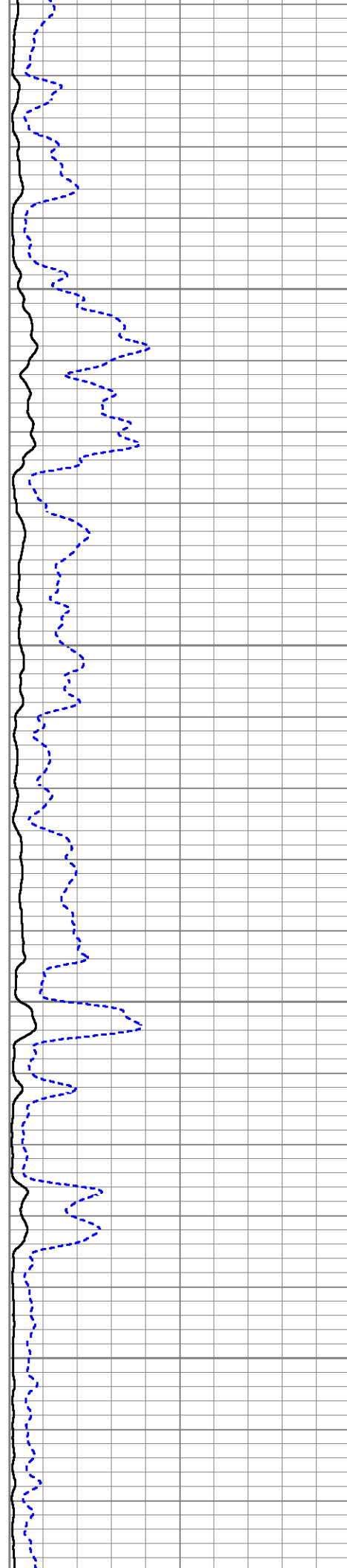


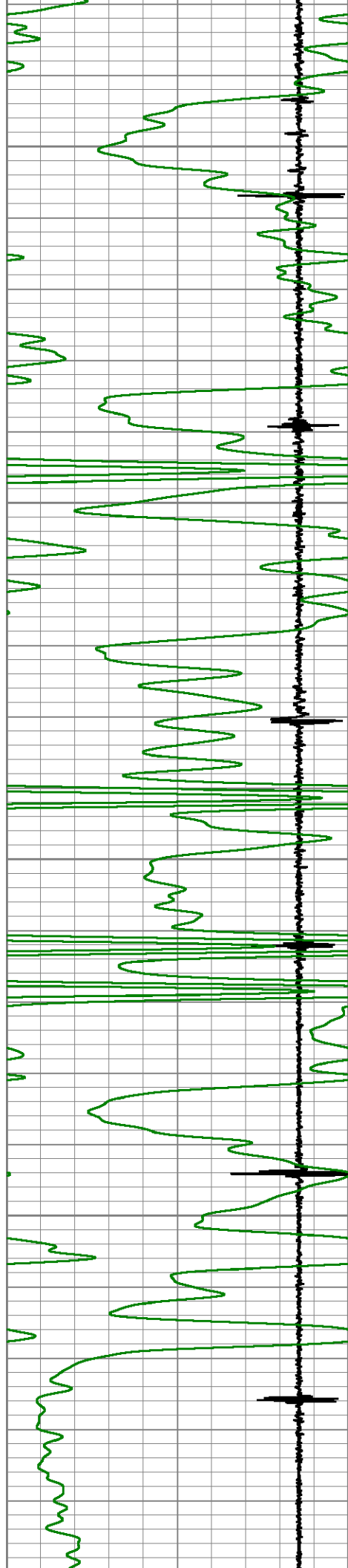
2100

2150

2200

2250





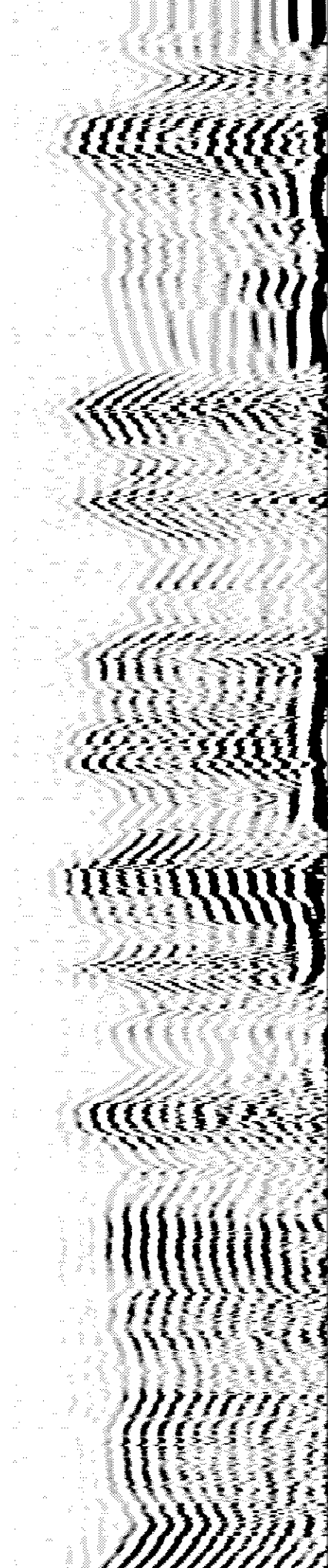
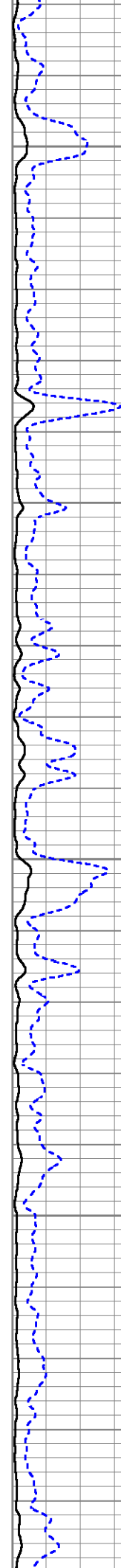
2300

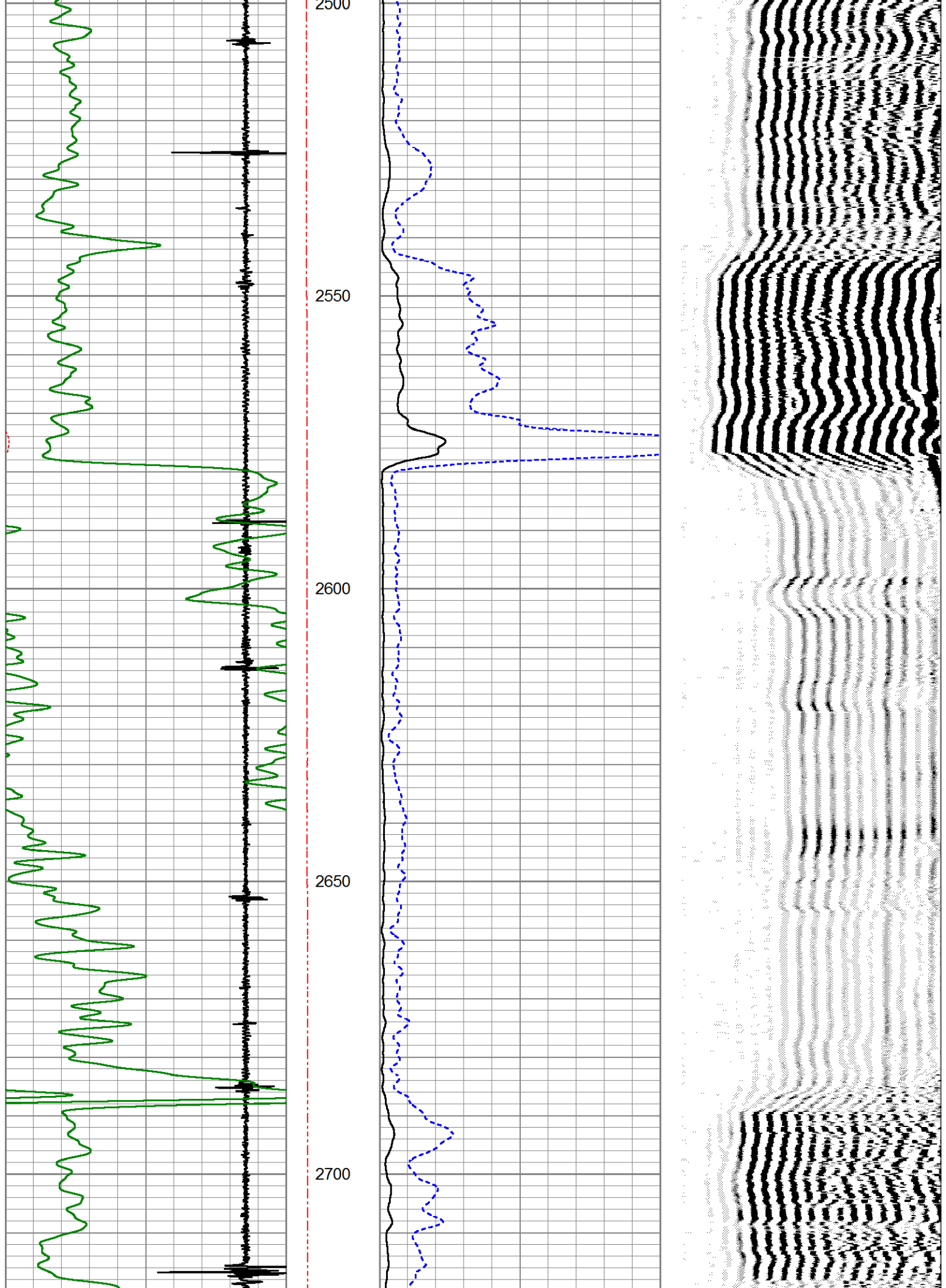
2350

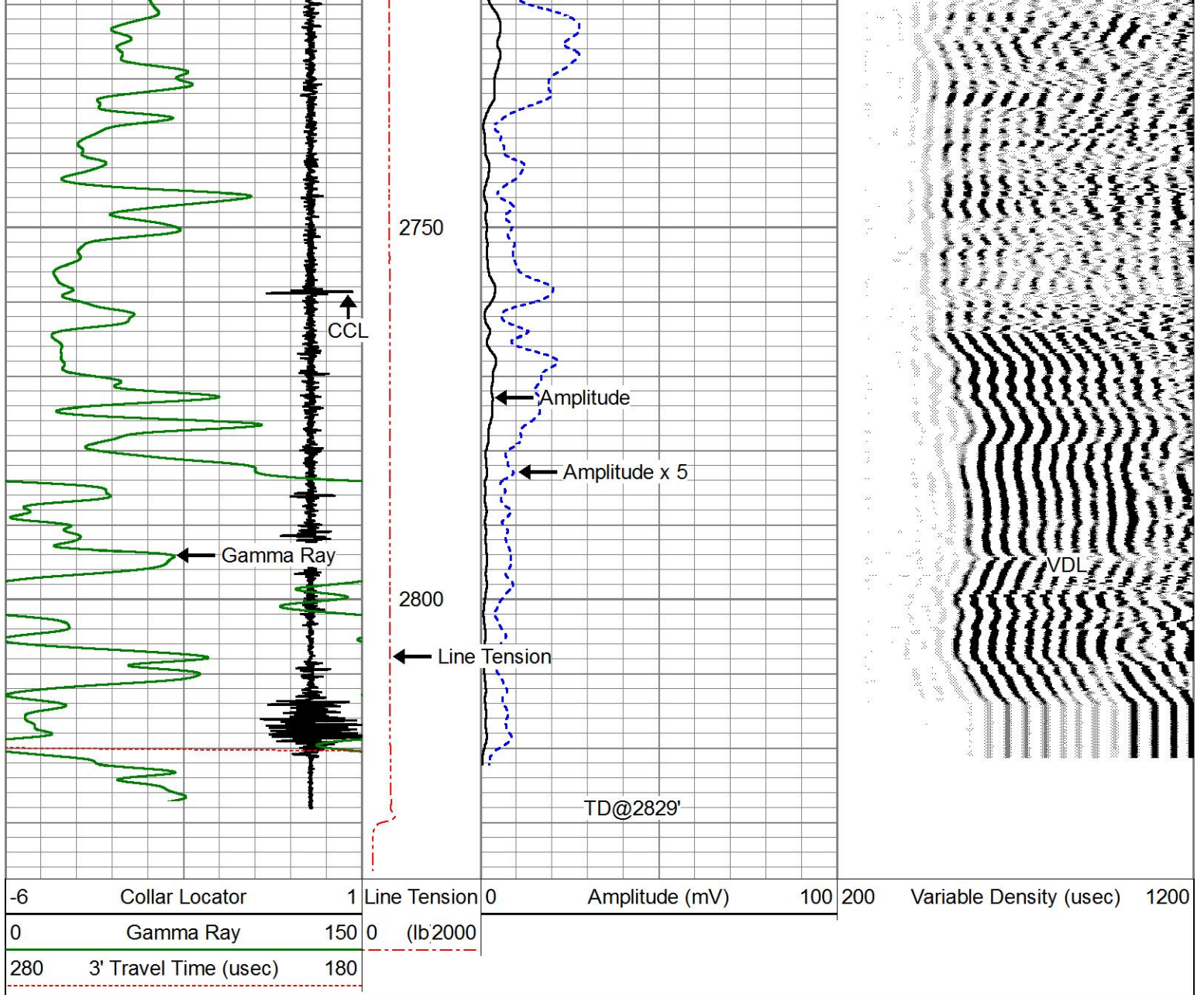
2400

2450

2500







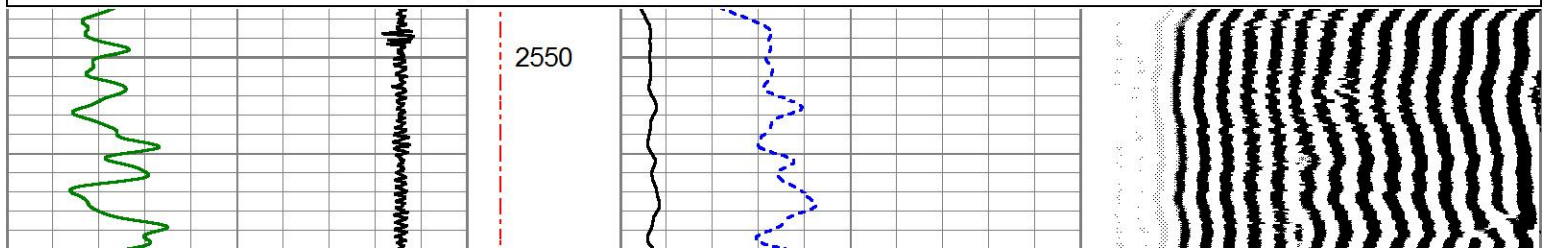
PIONEER
Pioneer Energy Services

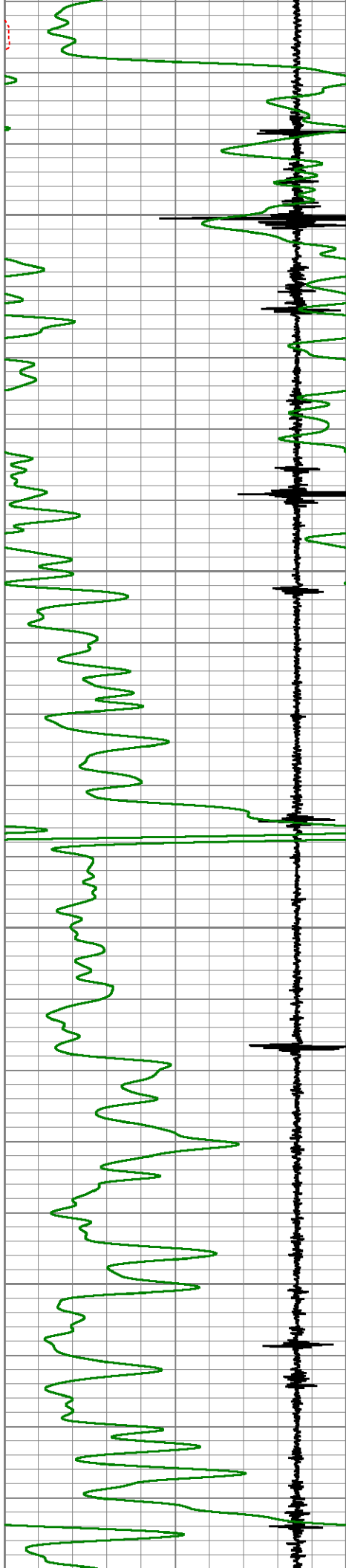
REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Database File entransco_t_wiebe#31_1swd_cbl_grn.db
 Dataset Pathname cbl1/pass2
 Presentation Format pinr_cbl
 Dataset Creation Mon Dec 17 16:51:06 2018
 Charted by Depth in Feet scaled 1:240

-6	Collar Locator	1	Line Tension	0	Amplitude (mV)	100	200	Variable Density (usec)	1200
0	Gamma Ray	150	0	(lb2000)					
280	3' Travel Time (usec)	180							



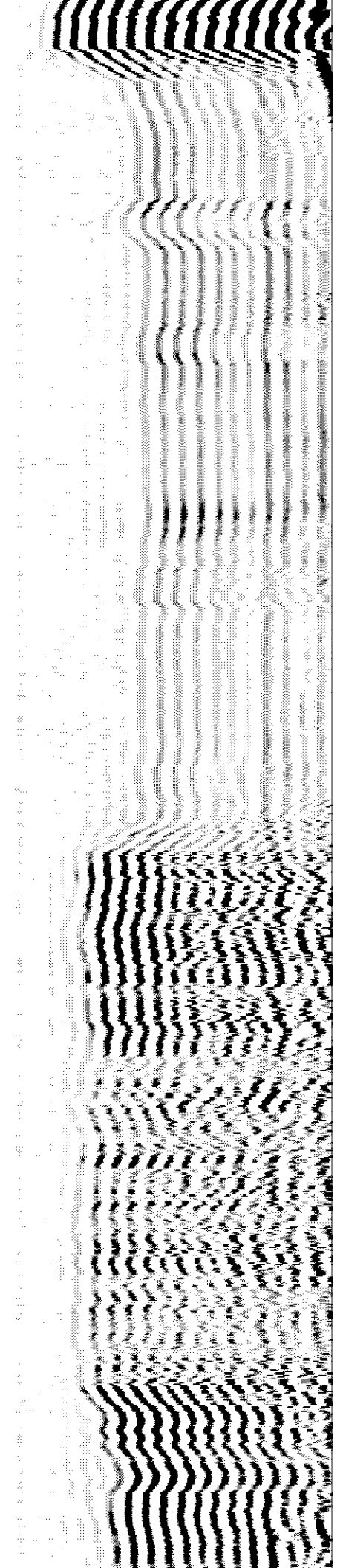
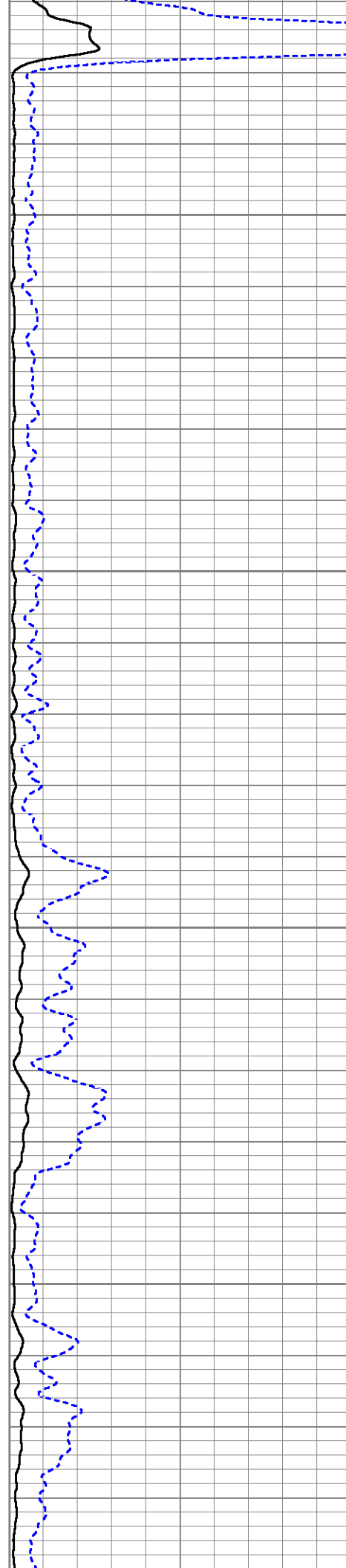


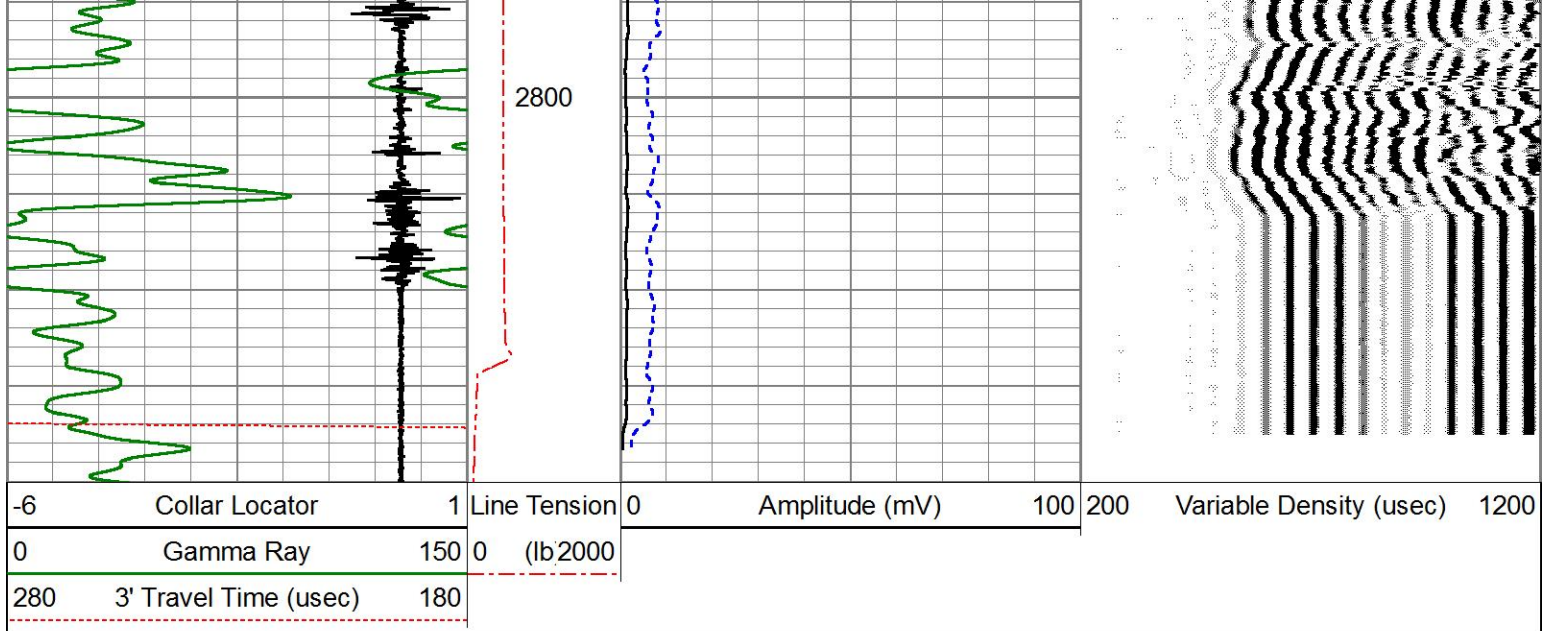
2600

2650

2700

2750





	MAIN LOG
--	----------

Calibration Report

Database File entransco_t_wiebe#31_1swd_cbl_grn.db
 Dataset Pathname cbl1/pass4
 Dataset Creation Mon Dec 17 17:00:28 2018

Neutron Calibration Report

Serial Number: ProbeNEU1
 Tool Model: PRNEU
 Performed: (Not Performed)

Calibrator Value: 1 NAPI
 Calibrator Reading: 1 cps
 Sensitivity: 1 NAPI/cps

Gamma Ray Calibration Report

Serial Number: 111032
 Tool Model: 2 3/4" Probe
 Performed: Tue Apr 03 09:45:00 2018

Calibrator Value: 1.0

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.1000 /cps

Segmented Cement Bond Log Calibration Report

Serial Number: 080554
 Tool Model: RBL-D

Calibration Casing Diameter: 5.500 in
 Calibration Depth: -3063.729 ft

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	1.573	0.700	71.921	45.376	0.559
CAL	0.003	1.926				
5'	0.003	1.464	0.700	71.921	48.747	0.567
SUM						
S1	0.041	1.465	0.000	100.000	70.188	-2.859
S2	0.017	1.444	0.000	100.000	70.049	-1.156
S3	0.016	1.504	0.000	100.000	67.224	-1.082
S4	0.017	1.589	0.000	100.000	63.609	-1.083
S5	0.027	1.661	0.000	100.000	61.202	-1.627
S6	0.026	1.700	0.000	100.000	59.723	-1.559
S7	0.015	1.660	0.000	100.000	60.800	-0.899
S8	0.014	1.518	0.000	100.000	66.497	-0.960

Air Zero Calibration, performed Mon Dec 17 16:35:41 2018:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.005		0.000			-0.002
5'	0.009		0.000			-0.006
SUM						
S1	0.009		0.000			0.031
S2	0.004		0.000			0.013
S3	0.005		0.000			0.011
S4	0.007		0.000			0.010
S5	0.007		0.000			0.019
S6	0.006		0.000			0.020
S7	0.012		0.000			0.002
S8	0.006		0.000			0.008



PIONEER
Pioneer Energy Services

Company ENTRANSCO ENERGY, LLC
 Well T.WIEBE #31-1 SWD
 Field HAZLETT
 County BUTLER
 State KS



**GAMMA RAY
NEUTRON
LOG**

Company ENTRANSCO ENERGY, LLC
Well T.WIEBE #31-1 SWD
Field HAZLETT
County BUTLER
State KS

Comp. ENTRANSCO ENERGY, LLC
Well T.WIEBE #31-1 SWD
Field HAZLETT
Co. BUTLER
State KS

Location: 120' FNL & 540' FEL
 120' FNL & 540' FEL
 NWNENE NE
 SEC 31 TWP 23S RGE 5E
Permanent Datum GL
Log Measured From KB
Drilling Measured From KB
Elevation 1475'
Above Perm. Datum
Other Services
 CBL
 MAST TRAILER
Elevation
 K.B. 1475'
 D.F. 1474'
 G.L. 1469'

Date of Service	12/17/2018			
Run Number	ONE			
Depth Driller or PBTD	3100'			
Depth Logger	2829'			
Bottom Log Interval	2827'			
Top Log Interval	00'			
Open Hole Size	7.875"			
Type Fluid	WATER			
Fluid Level	FULL			
Fluid Density	N/A			
Max. Recorded Temperature	102 DEG/F			
Max. Wellhead Pressure	00 PSI			
Wellhead Connection	FLOWTEE			
Estimated Cement Top	180'			
Unit Number	106			
Wireline Size	.288			
Location	HAYS, KS			
Recorded By	K.PFANNENSTIEL			
Witnessed By	R.GILBERT			
Tubing Record	Size	WFt	Top	Bottom
Surface Casing	8.625"	23#	00'	214'
Production Casing	5.5"	15.5 #	00'	TD
Liner 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.
 NEWTON KS
 1ST STREET EAST TO PURITY SPRINGS RD
 2 SOUTH, WEST TO WEST SIDE OF TANKS SOUTH INTO

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: K.PFANNENSTIEL Operator: M.HISS Operator: Operator:	080554	

Log Variables

DatabaseC:\ProgramData\Warrior\Data\transco_t_wiebe#31_1swd_cbl_grn.db
Dataset field/well/cbl1/pass4/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 101	CASEOD in 5.5	CASETHCK in 0	CASEWGHT lb/ft 15.5	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08
NPORSEL Limestone	NPORSHIFT 0	PERFS 0	PPT usec 0	SRFTEMP degF 57	TDEPTH ft 2600		

Variable Description


BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude

MINATTN : Minimum Attenuation
NPORSEL : Neutron Porosity Curve Select
NPORSHIFT : NPORSHIFT
PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
WVFS8	16.36		PROBE-RBT-DIGITAL-RBL-D (080554) Probe 2 3/4" Radii Bond-Digital	8.75	2.75	100.00
WVFS7	16.36					
WVFS6	16.36					
WVFS5	16.36					
WVFS4	16.36					
WVFS3	16.36					
WVFS2	16.36					
WVFS1	16.36					
WVFCAL	16.36					
WVF3FT	16.36					
WVF5FT	15.36					
HEADVOLT	12.17	Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00	
CCL	8.39					

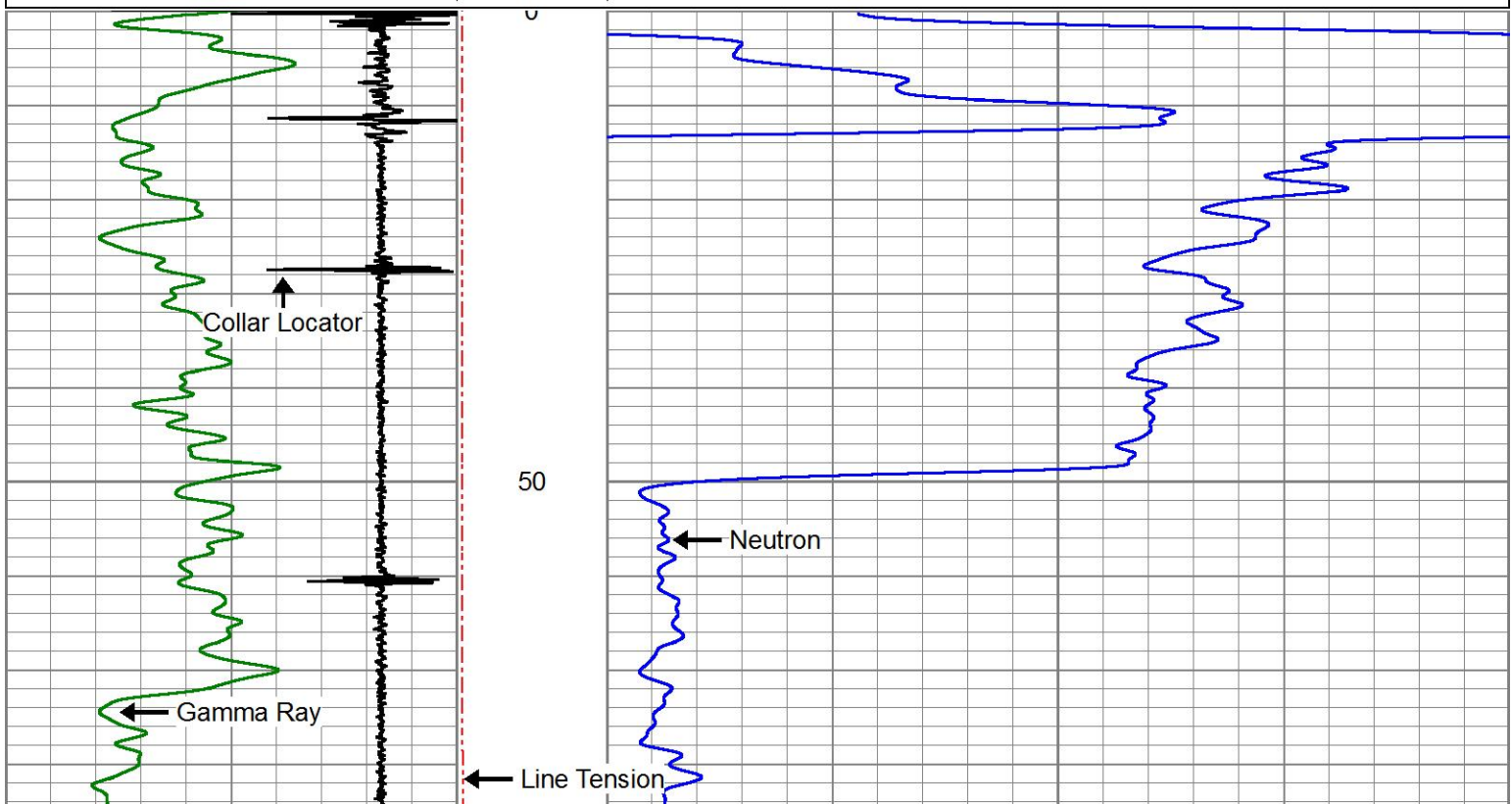
GR	7.05		GR_CCL-2 3/4" Probe (111032)	4.54	2.75	50.00
			NEU-PRNEU (ProbeNEU1)	4.75	1.88	
NEU	1.08					

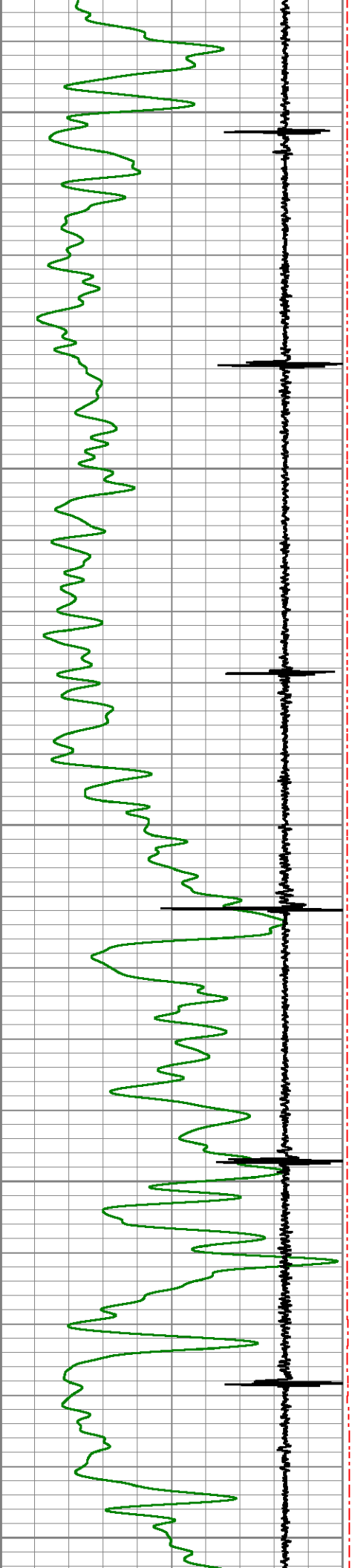
Dataset:	entransco_t_wiebe#31_1swd_cbl_grn.db: field/well/cbl1/pass4
Total length:	24.83 ft
Total weight:	182.00 lb
O.D.:	2.75 in

	<h1>MAIN LOG</h1>
	<h2>ZERO PSI APPLIED AT SURFACE</h2>

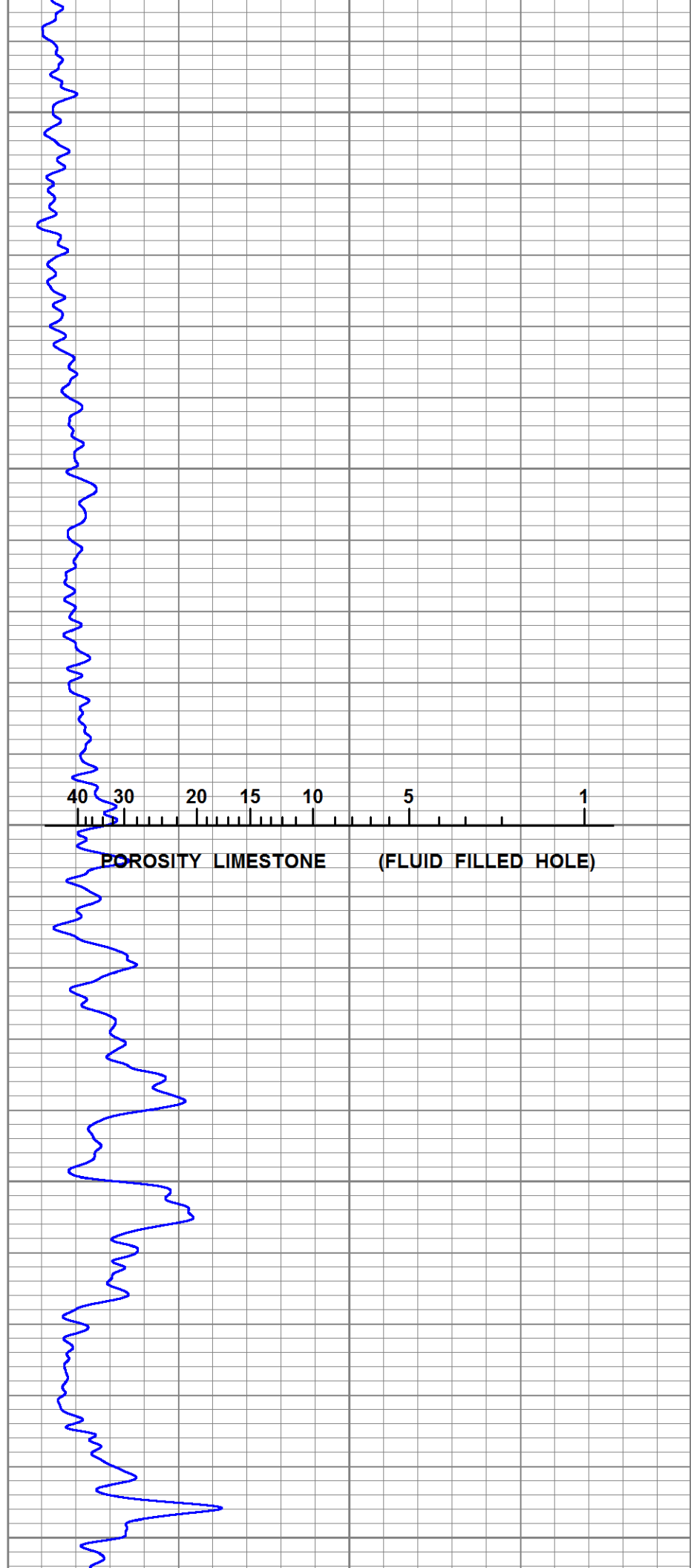
Database File	entransco_t_wiebe#31_1swd_cbl_grn.db
Dataset Pathname	cbl1/pass4
Presentation Format	PINR_G~4
Dataset Creation	Mon Dec 17 17:00:28 2018
Charted by	Depth in Feet scaled 1:240

0	GR	150	LTEN	30	NEU (NAPI)	350
-5	CCL	1	0	(lb2000)		

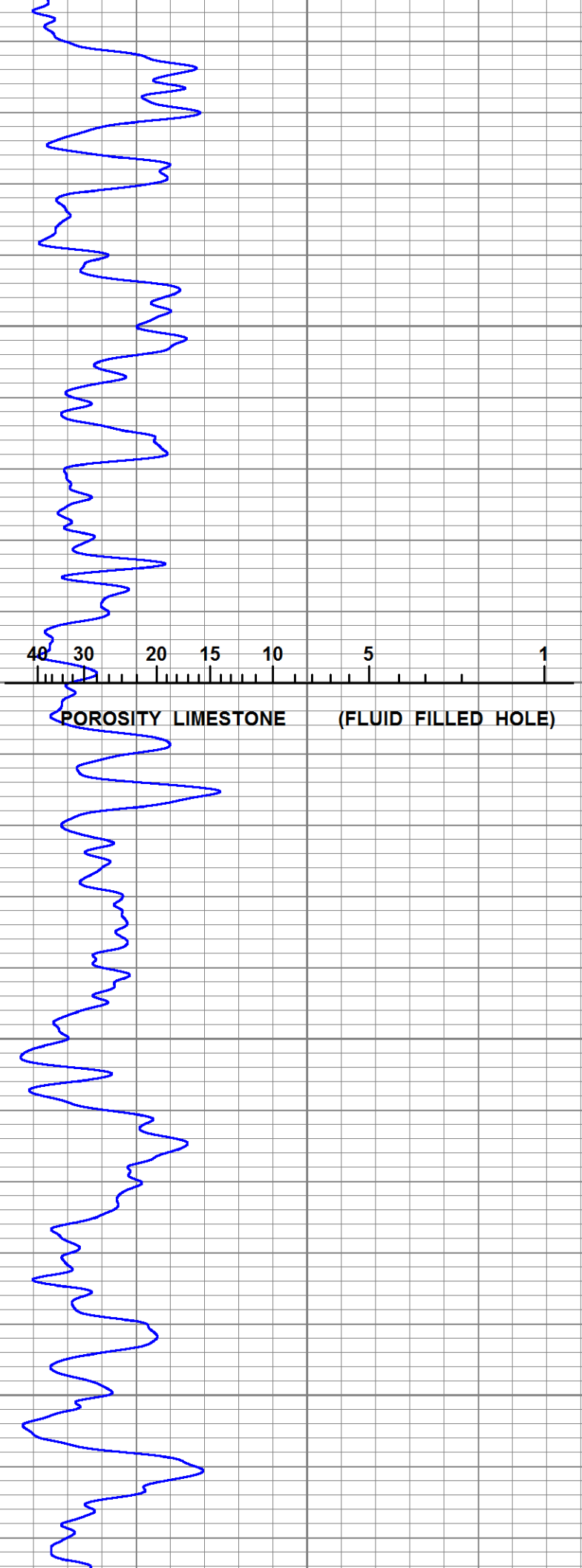
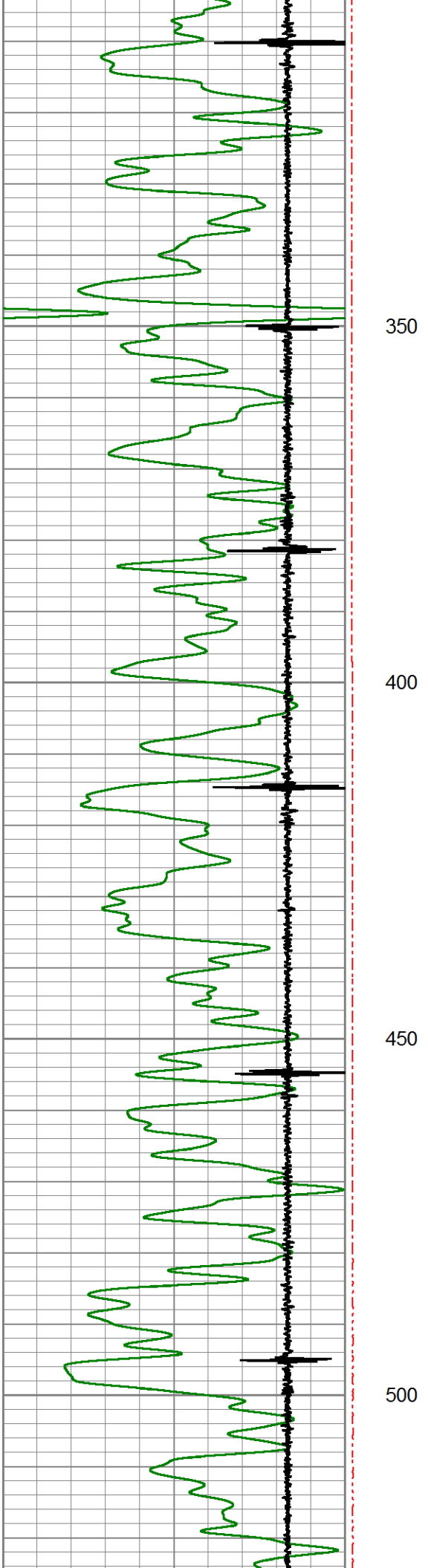


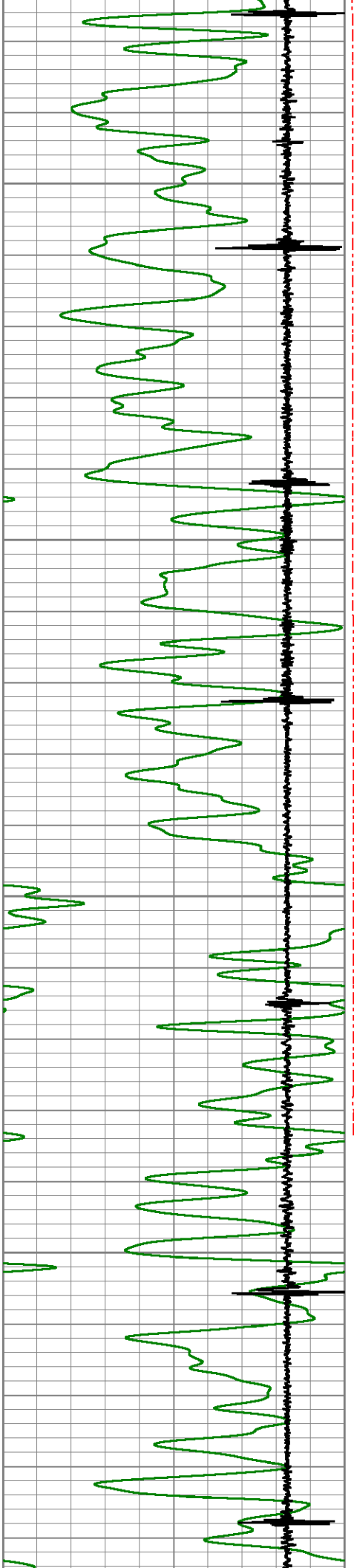


100
150
200
250
300



40 30 20 15 10 5 1
POROSITY LIMESTONE (FLUID FILLED HOLE)



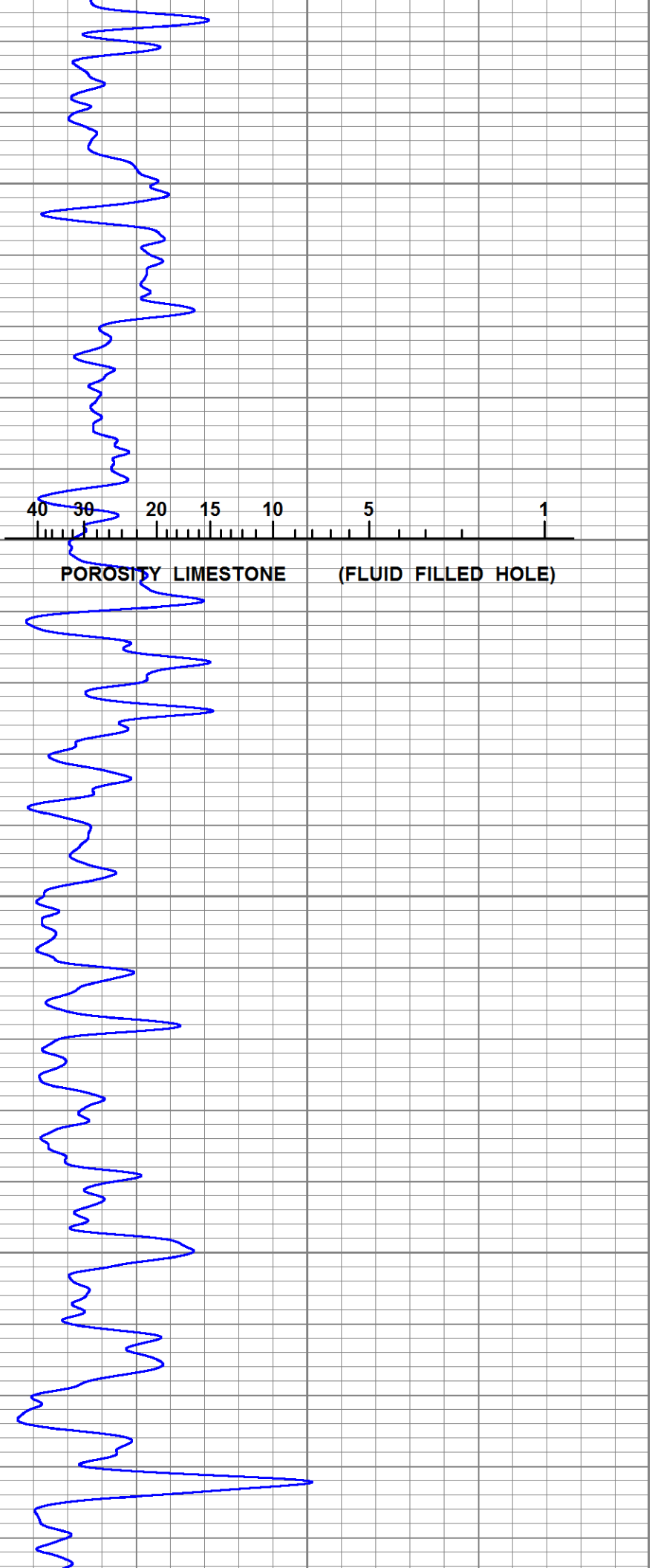


550

600

650

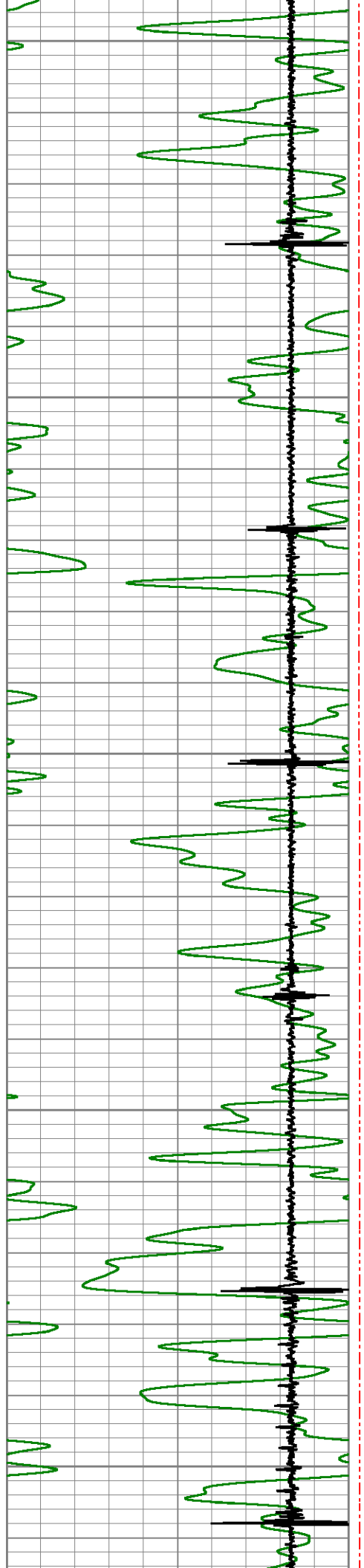
700



40 30 20 15 10 5 1

POROSITY LIMESTONE

(FLUID FILLED HOLE)



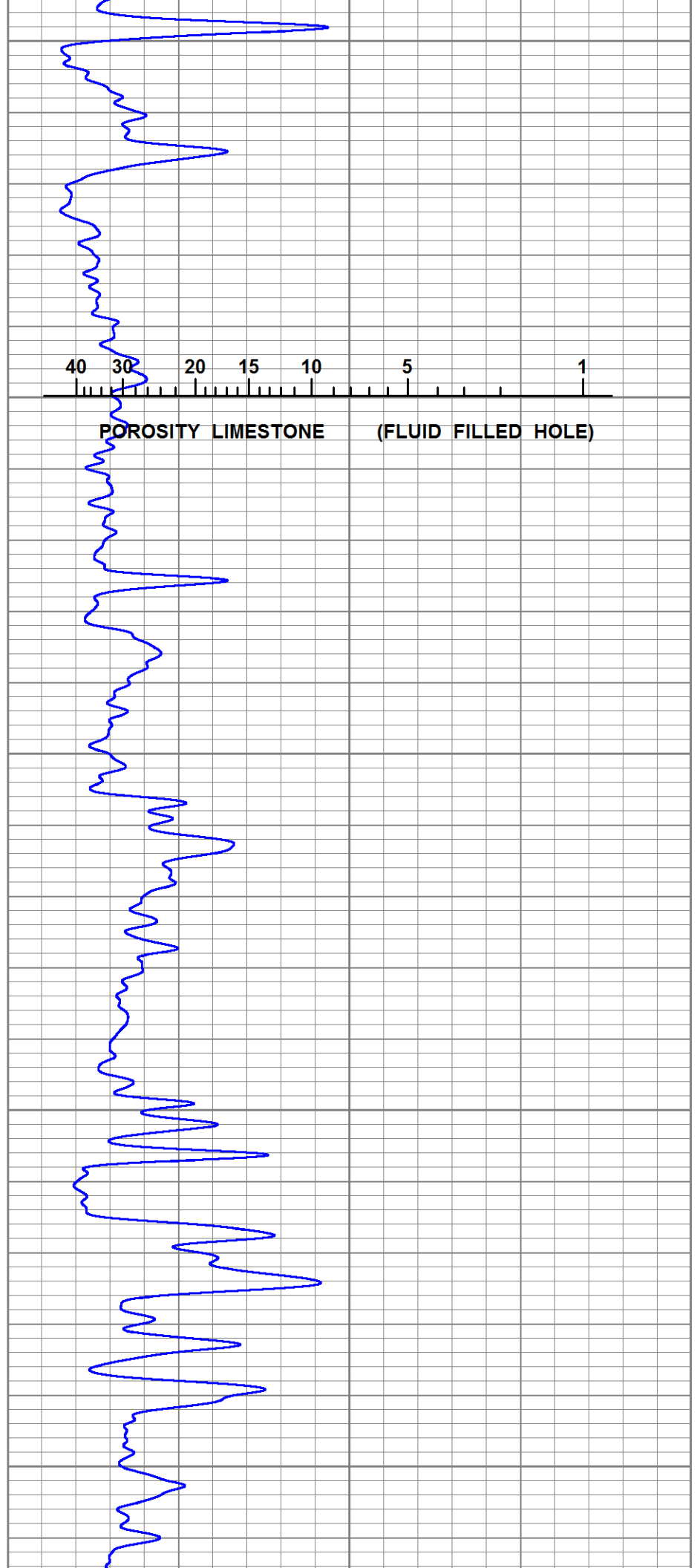
750

800

850

900

950



40 30 20 15 10 5 1

POROSITY LIMESTONE

(FLUID FILLED HOLE)

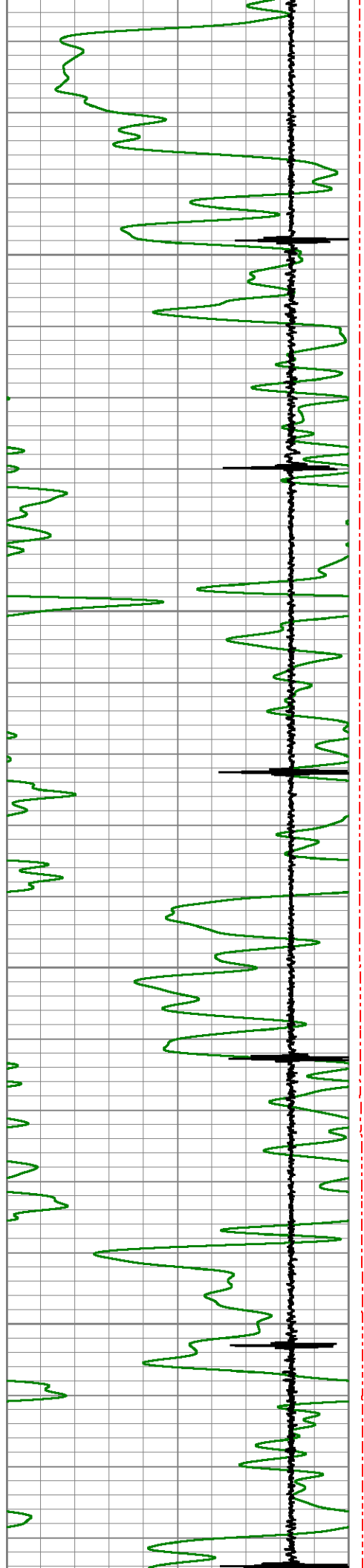
750

800

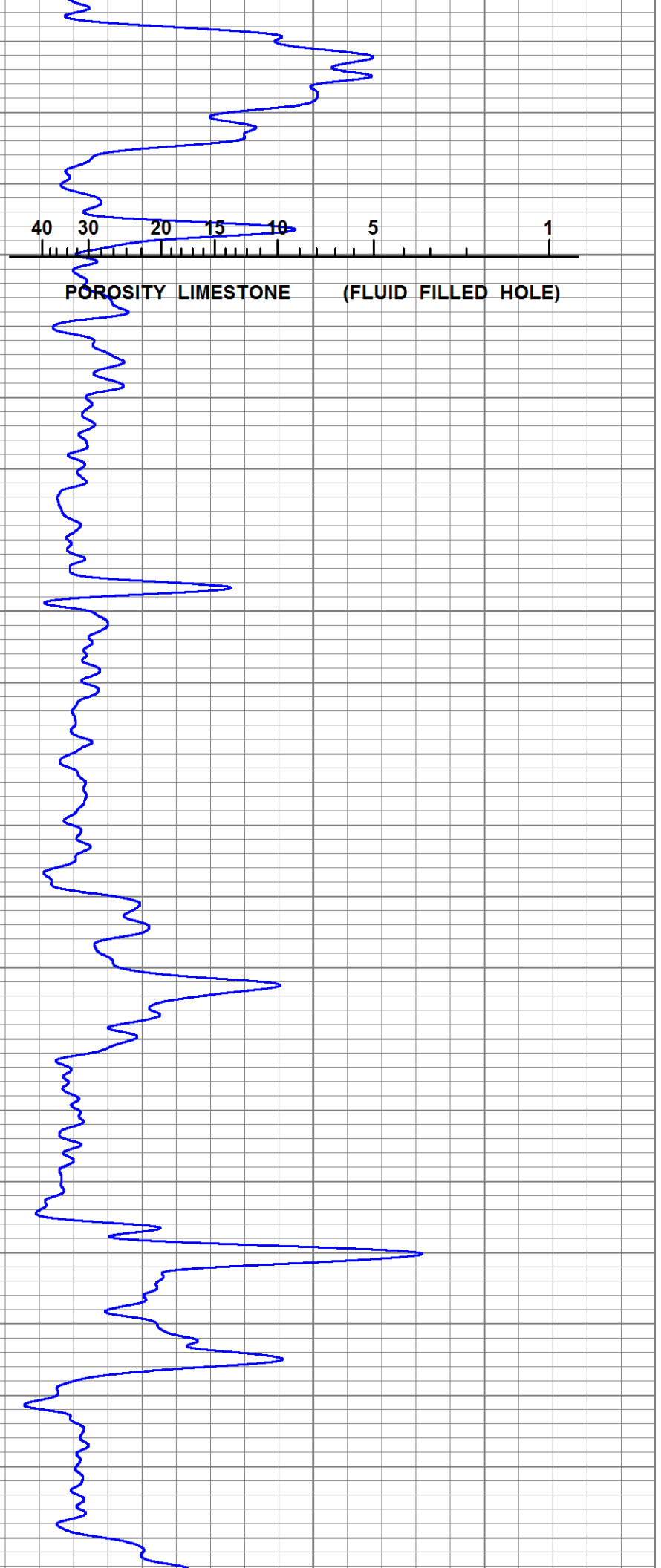
850

900

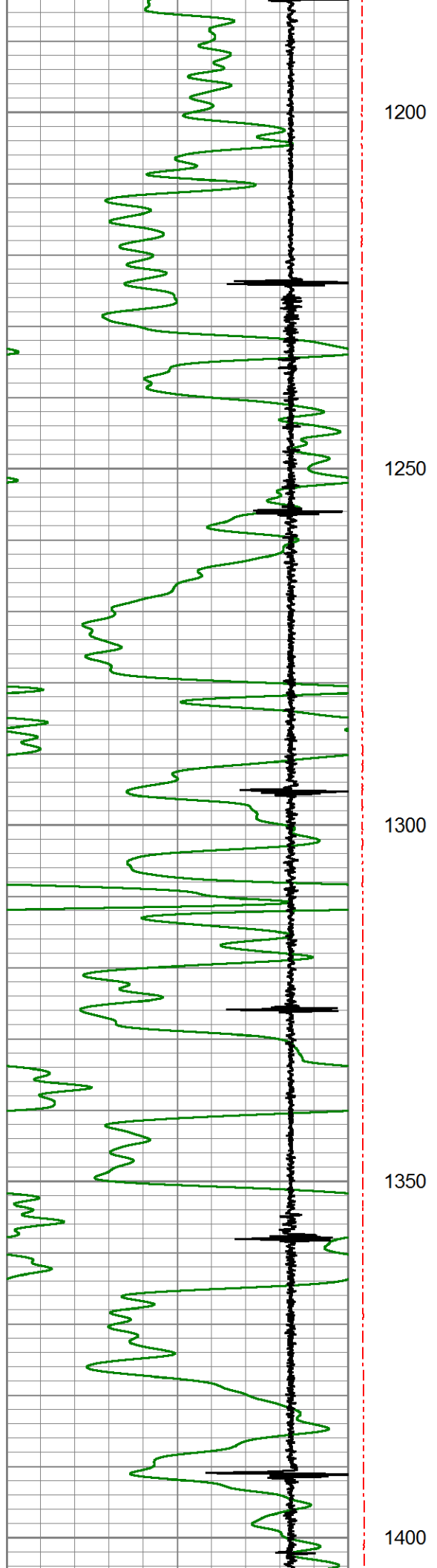
950



1000
1050
1100
1150



40 30 20 15 10 5 1
POROSITY LIMESTONE (FLUID FILLED HOLE)



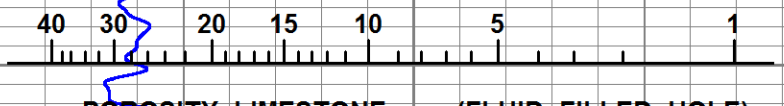
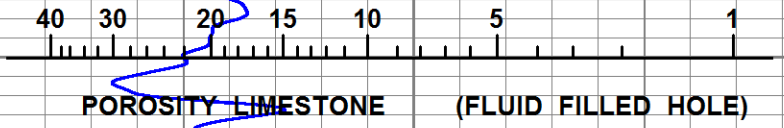
1200

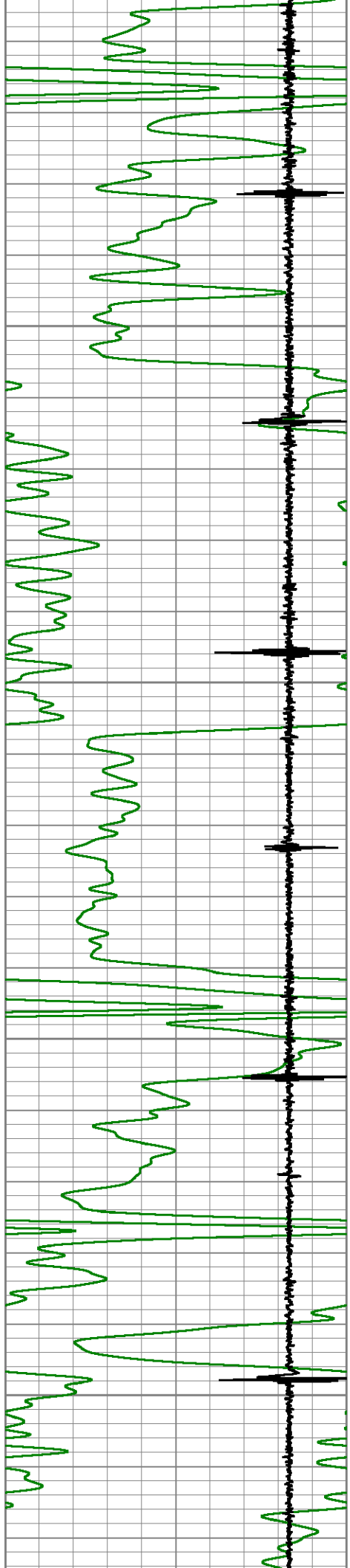
1250

1300

1350

1400





1450

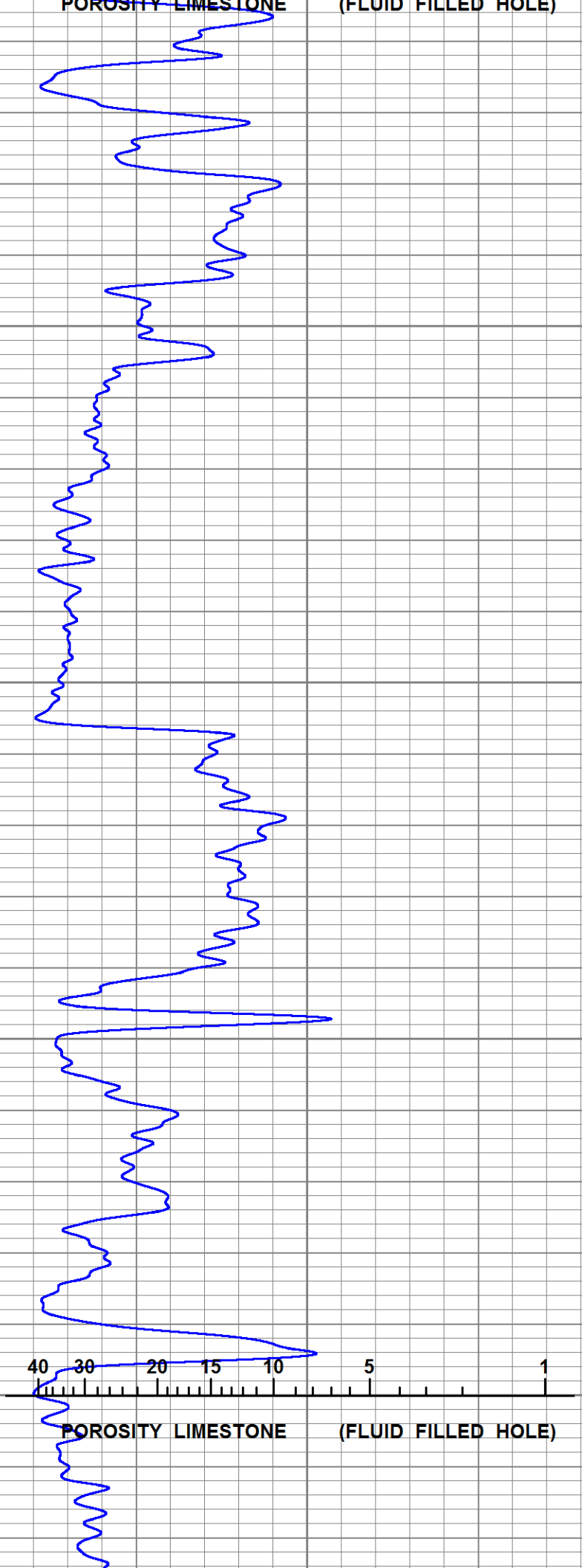
1500

1550

1600

POROSITY LIMESTONE

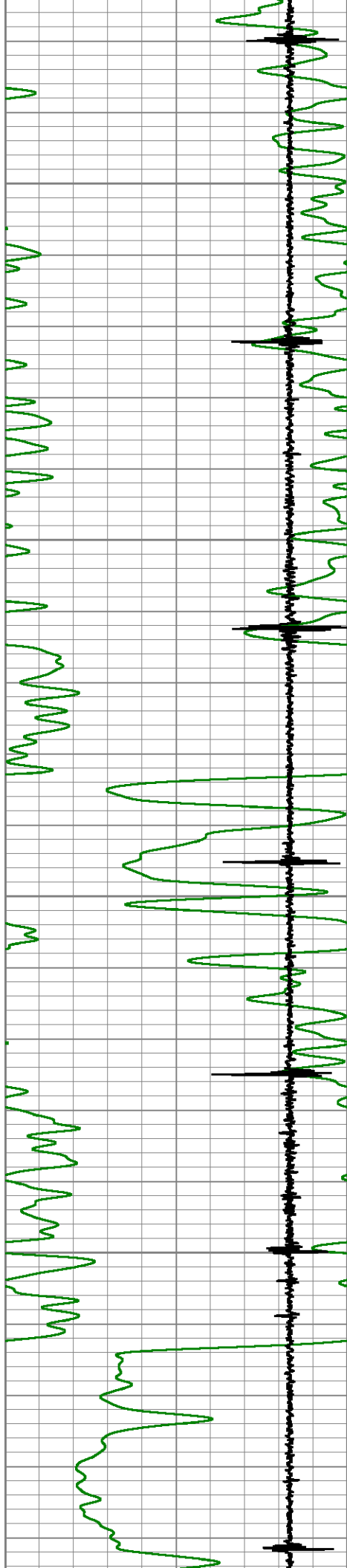
(FLUID FILLED HOLE)



40 30 20 15 10 5 1

POROSITY LIMESTONE

(FLUID FILLED HOLE)

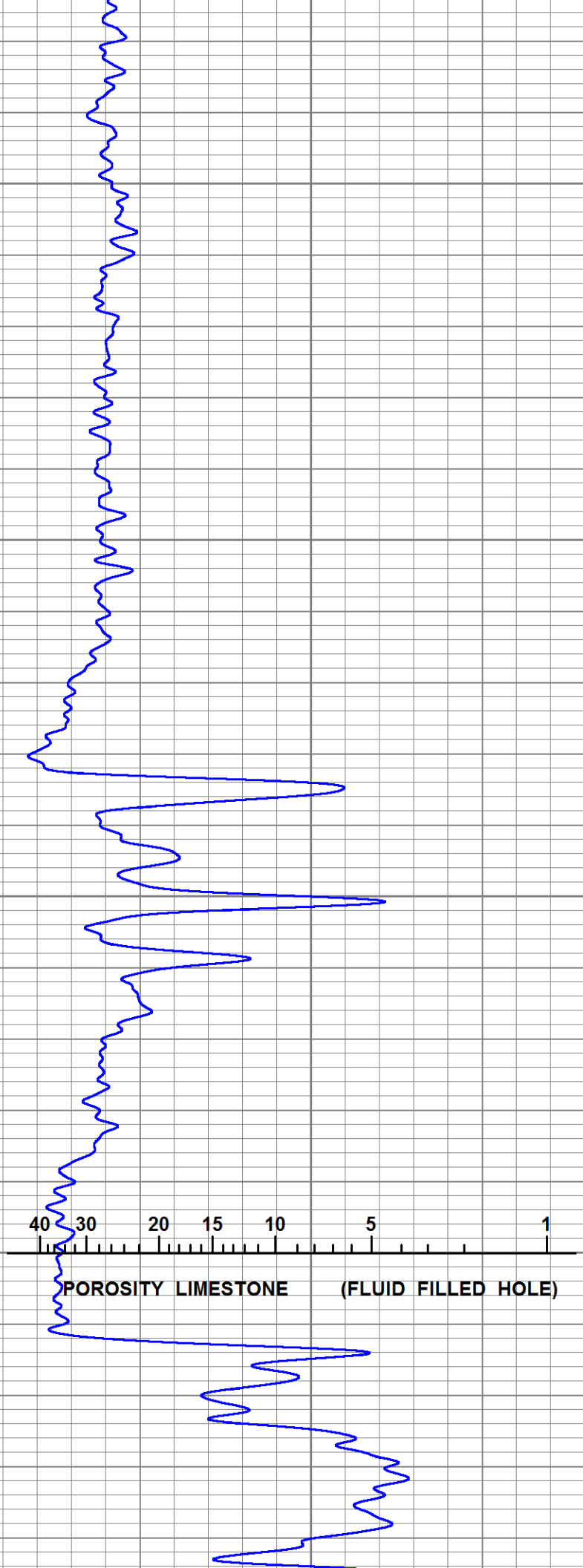


1650

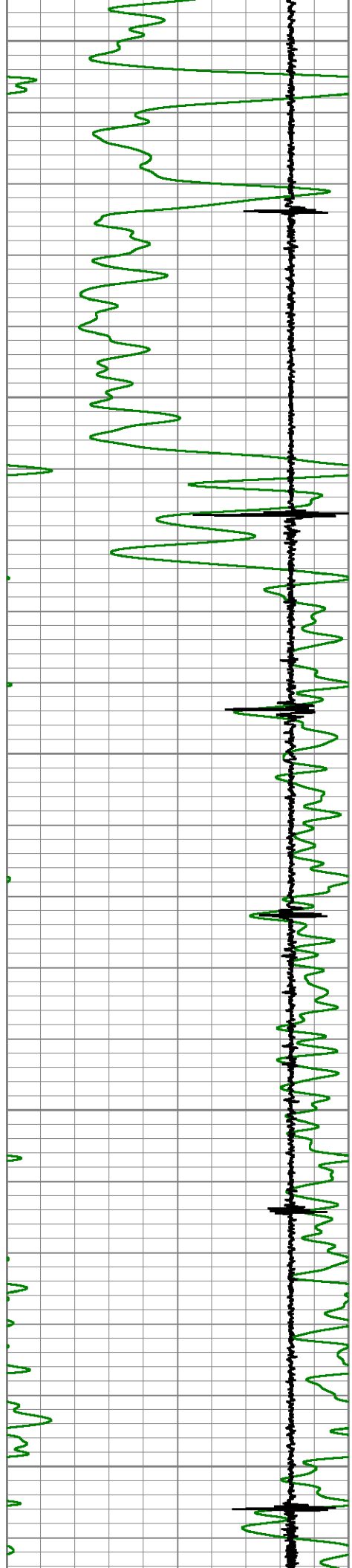
1700

1750

1800



40 30 20 15 10 5 1
POROSITY LIMESTONE (FLUID FILLED HOLE)



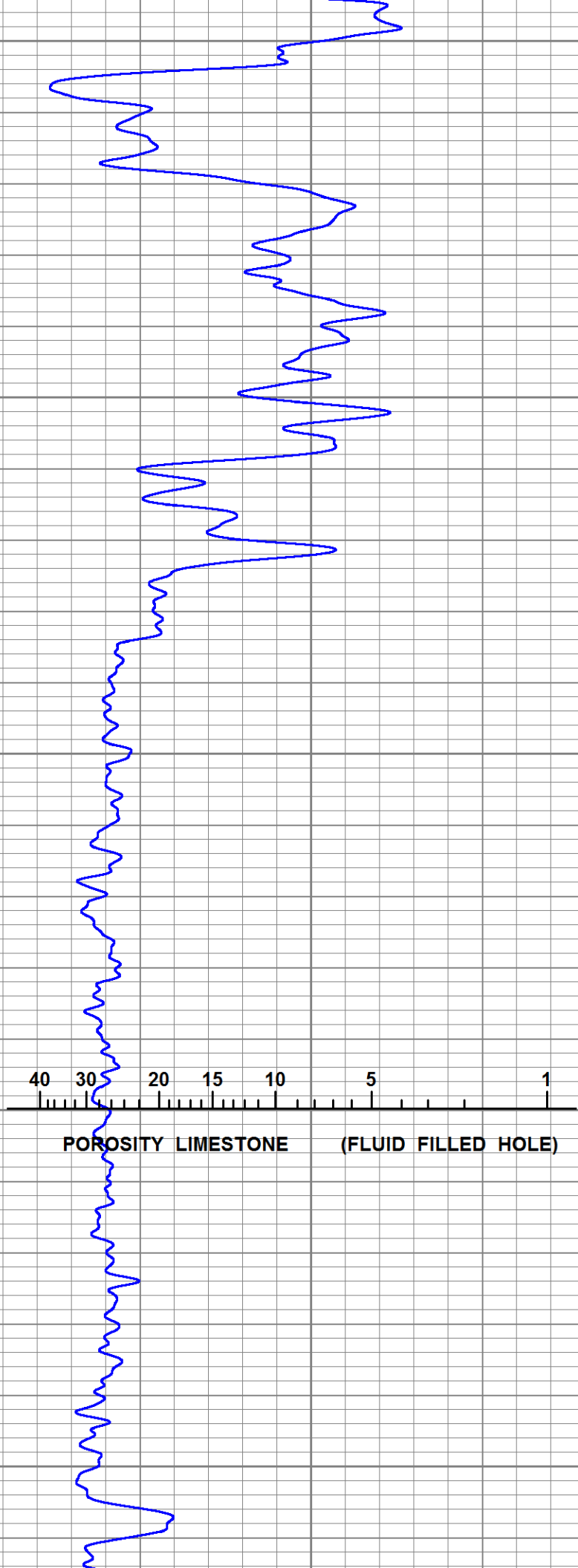
1850

1900

1950

2000

2050



40

30

20

15

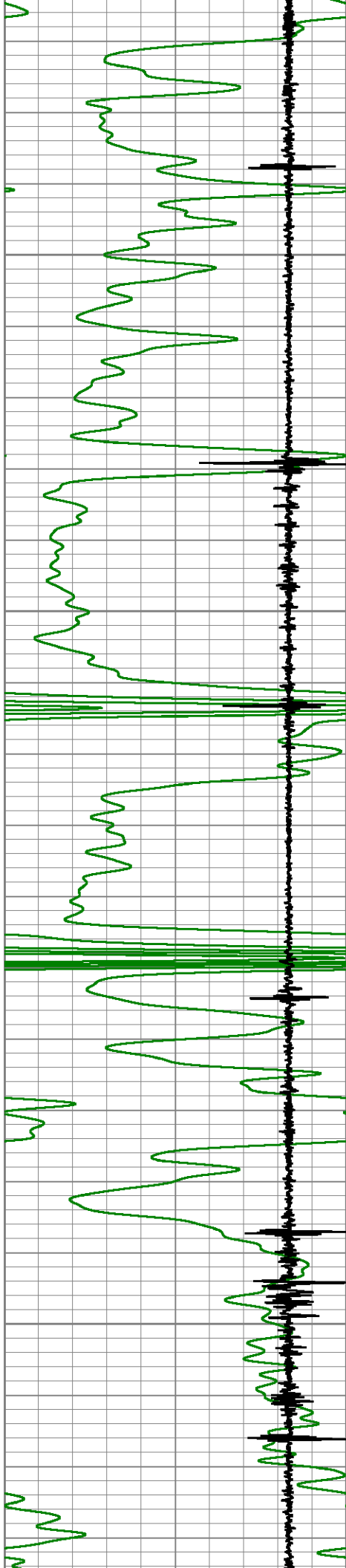
10

5

1

POROSITY LIMESTONE

(FLUID FILLED HOLE)

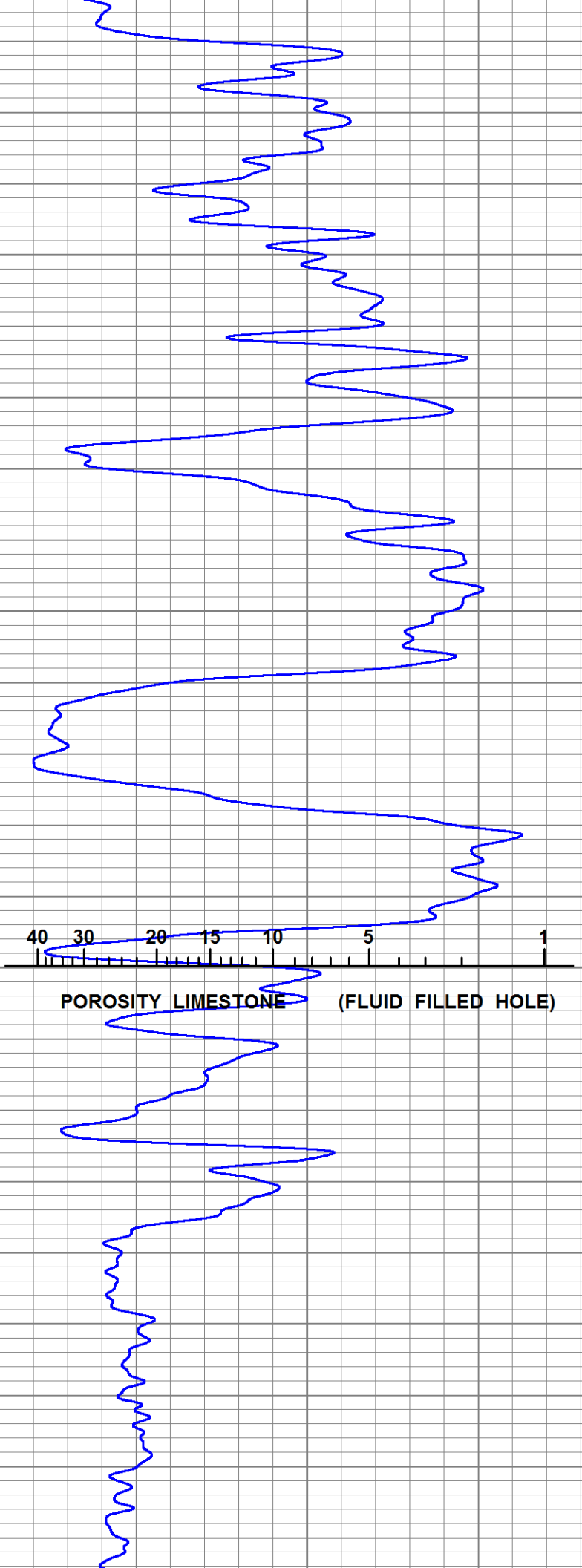


2100

2150

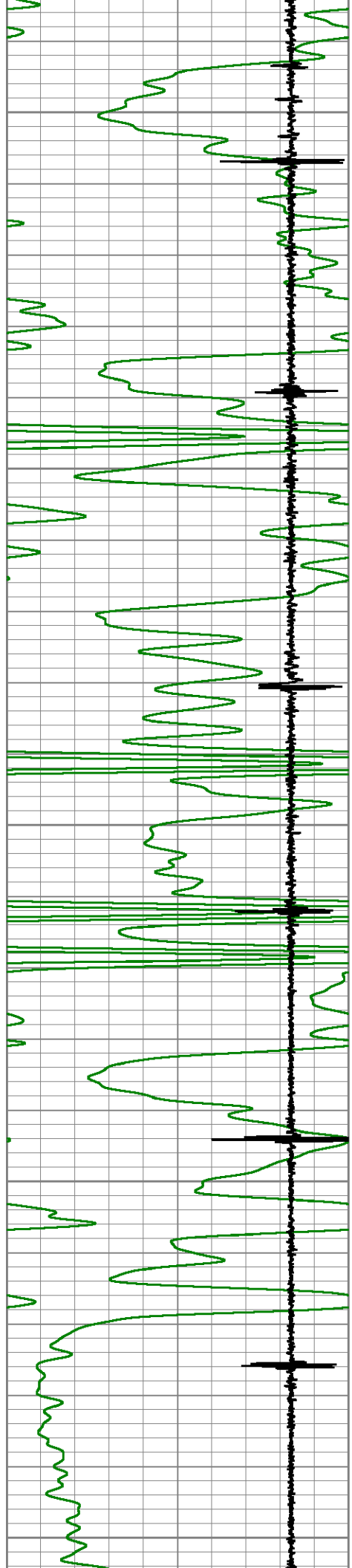
2200

2250



40 30 20 15 10 5 1

POROSITY LIMESTONE (FLUID FILLED HOLE)



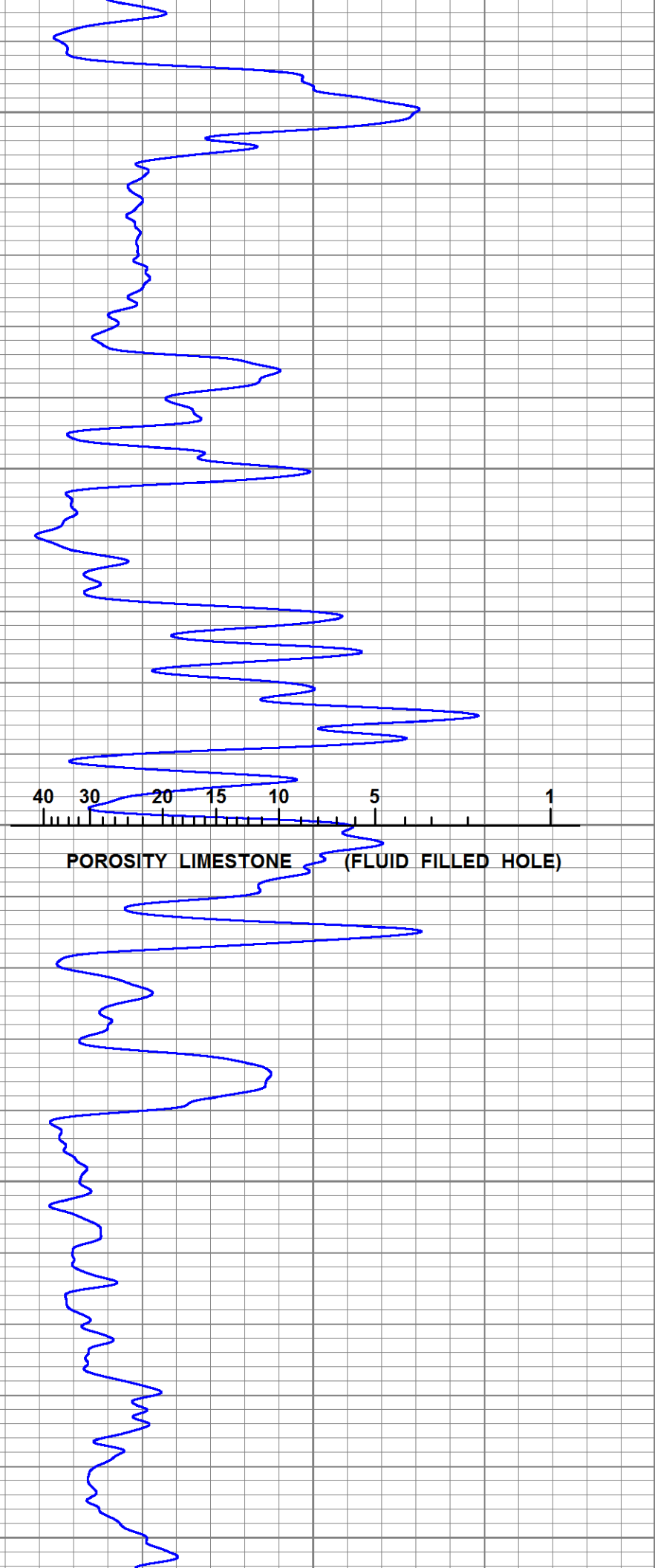
2300

2350

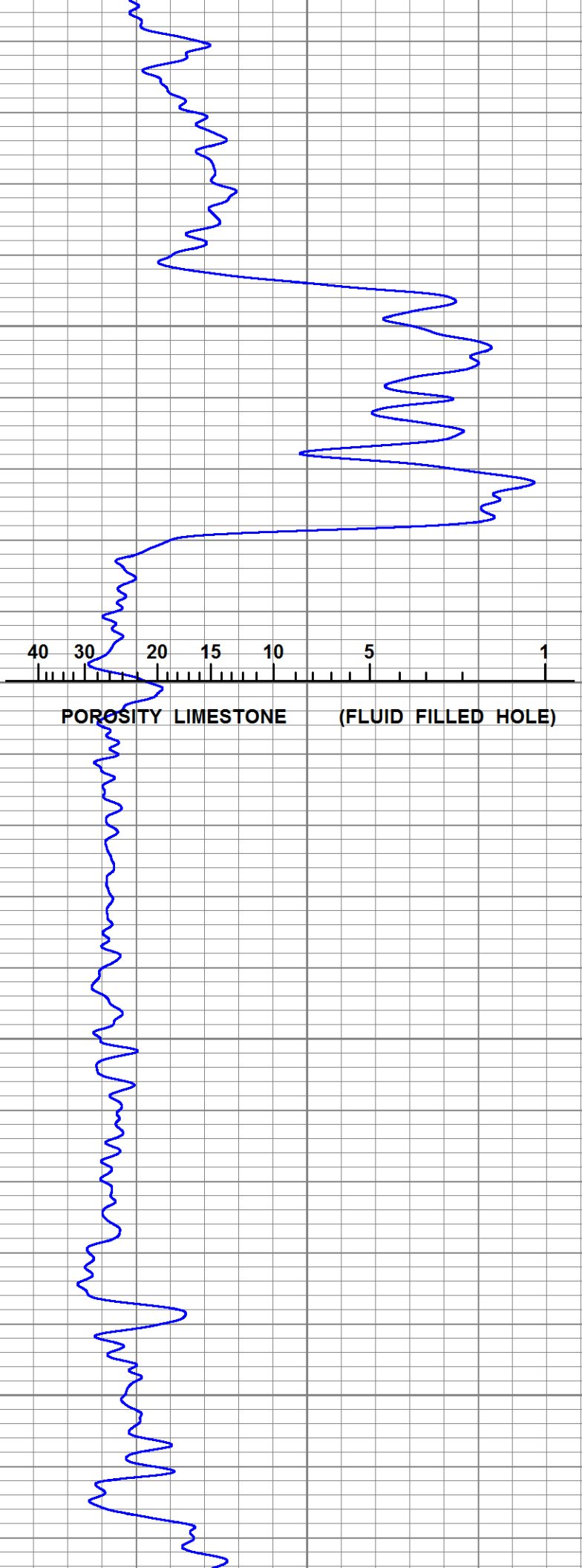
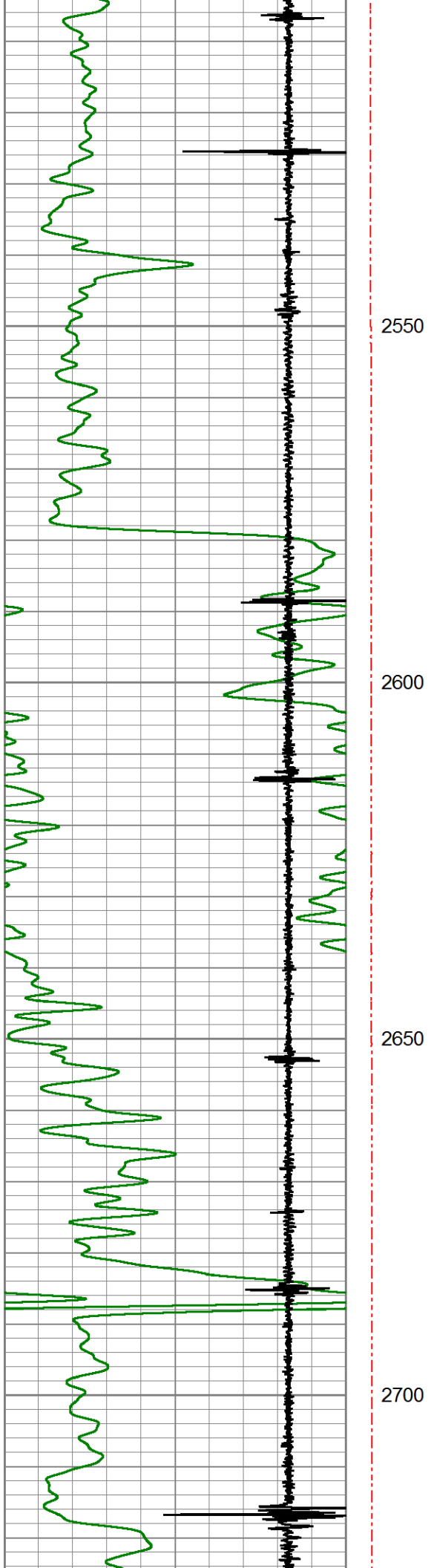
2400

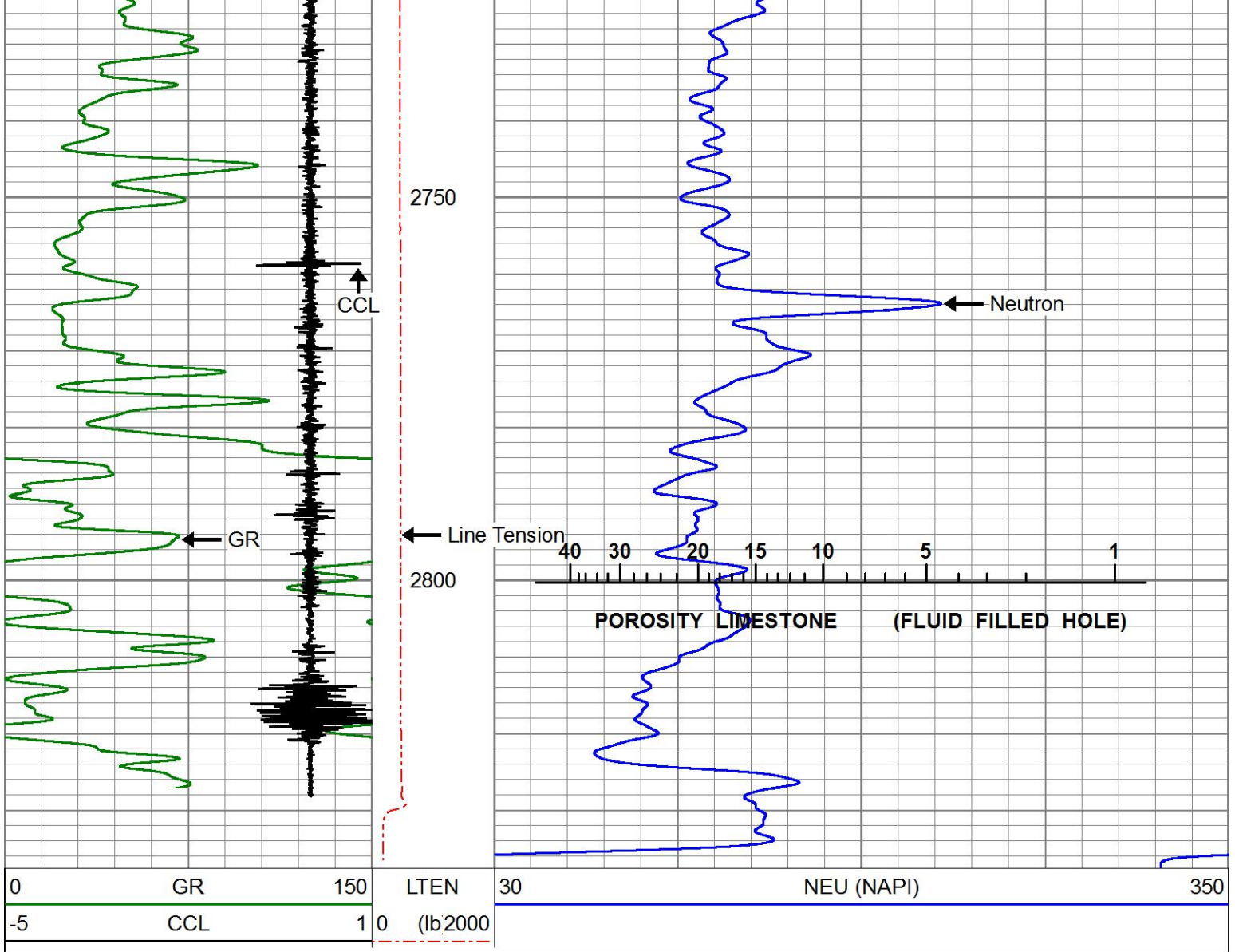
2450

2500



40 30 20 15 10 5 1
POROSITY LIMESTONE (FLUID FILLED HOLE)





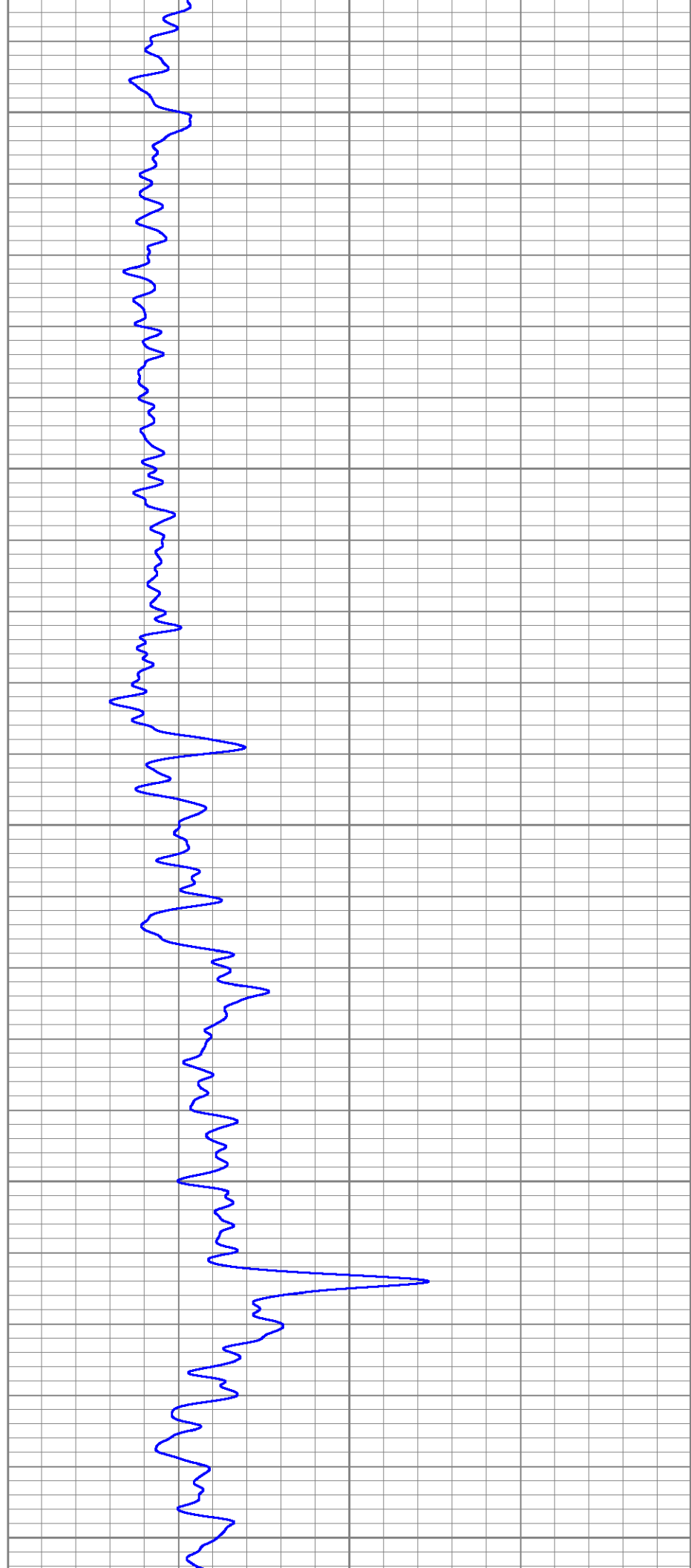
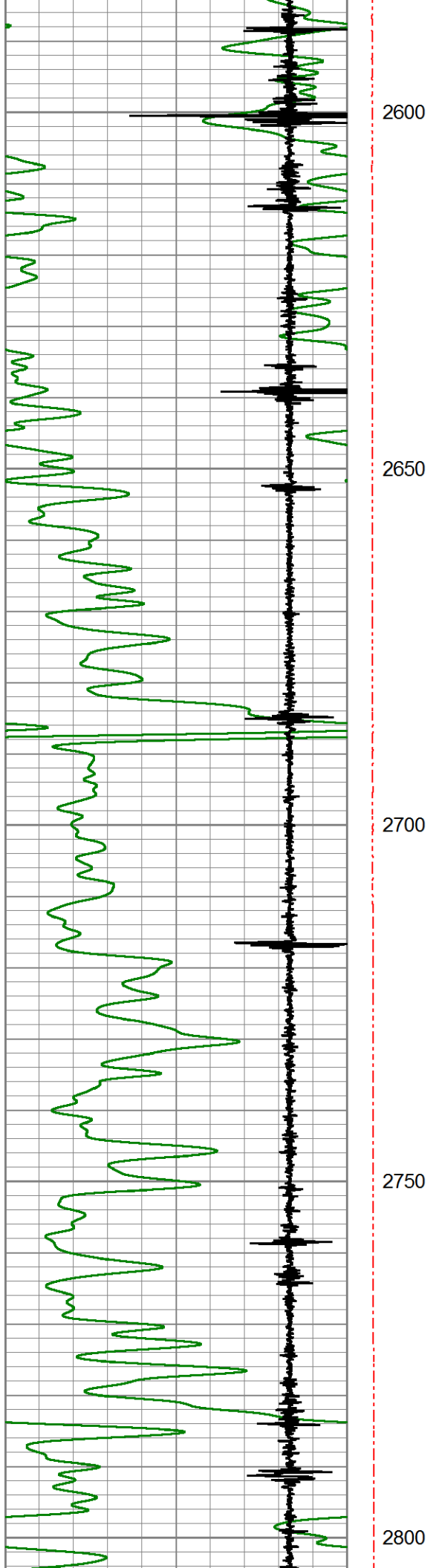
REPEAT SECTION

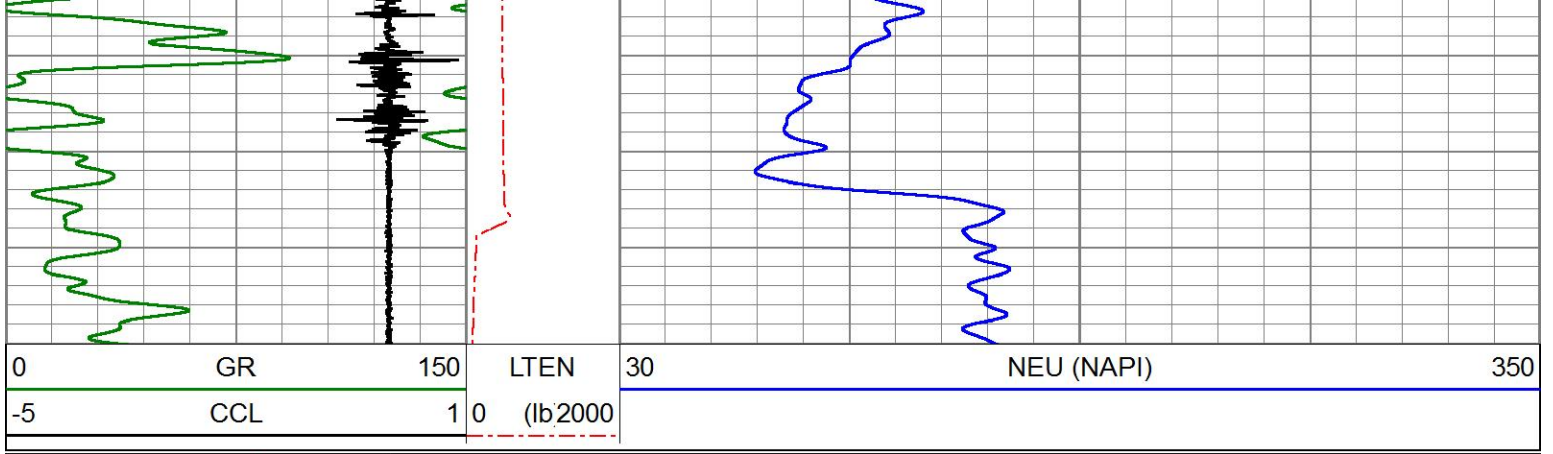
ZERO PSI APPLIED AT SURFACE

Database File entransco_t_wiebe#31_1swd_cbl_grn.db
 Dataset Pathname cbl1/pass2
 Presentation Format PINR_G~4
 Dataset Creation Mon Dec 17 16:51:06 2018
 Charted by Depth in Feet scaled 1:240

0	GR	150	LTEN	30	NEU (NAPI)	350
-5	CCL	1	0	(lb2000)		







MAIN LOG

Calibration Report

Database File entransco_t_wiebe#31_1swd_cbl_grn.db
 Dataset Pathname cbl1/pass4
 Dataset Creation Mon Dec 17 17:00:28 2018

Neutron Calibration Report

Serial Number: ProbeNEU1
 Tool Model: PRNEU
 Performed: (Not Performed)

Calibrator Value: 1 NAPI
 Calibrator Reading: 1 cps
 Sensitivity: 1 NAPI/cps

Gamma Ray Calibration Report

Serial Number: 111032
 Tool Model: 2 3/4" Probe
 Performed: Tue Apr 03 09:45:00 2018

Calibrator Value: 1.0

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.1000 /cps

Segmented Cement Bond Log Calibration Report

Serial Number: 080554
 Tool Model: RBL-D

Calibration Casing Diameter: 5.500 in
 Calibration Depth: -3063.729 ft

Master Calibration, performed Mon Dec 17 09:17:12 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
2'	0.003	1.573	0.700	71.921	15.376	0.559

3'	0.003	1.973	0.700	71.921	45.376	0.539
CAL	0.003	1.926				
5'	0.003	1.464	0.700	71.921	48.747	0.567
SUM						
S1	0.041	1.465	0.000	100.000	70.188	-2.859
S2	0.017	1.444	0.000	100.000	70.049	-1.156
S3	0.016	1.504	0.000	100.000	67.224	-1.082
S4	0.017	1.589	0.000	100.000	63.609	-1.083
S5	0.027	1.661	0.000	100.000	61.202	-1.627
S6	0.026	1.700	0.000	100.000	59.723	-1.559
S7	0.015	1.660	0.000	100.000	60.800	-0.899
S8	0.014	1.518	0.000	100.000	66.497	-0.960

Air Zero Calibration, performed Mon Dec 17 16:35:41 2018:

	Raw (v)		Calibrated (v)		Results
	Zero		Zero		Offset
3'	0.005		0.000		-0.002
5'	0.009		0.000		-0.006
SUM					
S1	0.009		0.000		0.031
S2	0.004		0.000		0.013
S3	0.005		0.000		0.011
S4	0.007		0.000		0.010
S5	0.007		0.000		0.019
S6	0.006		0.000		0.020
S7	0.012		0.000		0.002
S8	0.006		0.000		0.008



Company ENTRANSCO ENERGY, LLC
Well T.WIEBE #31-1 SWD
Field HAZLETT
County BUTLER
State KS