

ALL PRESENTATION PER CUSTOMER REQUEST
 GRT,CNT,LDT,PIT RUN IN COMBINATION
 CALIPERS ORIENTED ON X-Y AXIS
 2.71 G/CC USED TO CALCULATE POROSITY
 ANNULAR & BOREHOLE VOLUME CALCULATED USING 5.5 PRODUCTION CASING
 PHIN IS CALIPER CORRECTED
 DETAIL IS PRESENTED FROM TD TO 2500'
 ANHYDRITE SECTION FROM 1990' TO 1950'
 SALT SECTION FROM 2490' TO 2320'

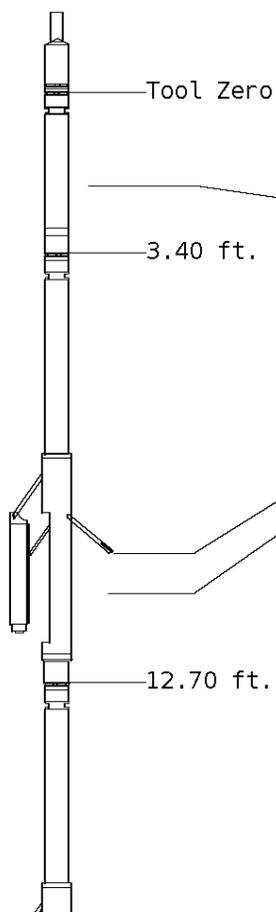
GRT; GRP,
 CNT; PHIN, CLCNIN
 LDT; PORL, LCORN, PECLN, LDENN, CLLDIN
 MLT; NOR.RF, INV.RF, MSCLPIN.
 PIT; ILD, ILM, SPU, SFLAEC, CIRD

OPERATORS;
 R. FRANKLIN

J. OFFEINGBU

Tool String Schematic

Total Tool Length - 53.57 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-013

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	51.57

Tool: CNT-AA **Length:** 9.30 ft. **O.D.** 4.36 in.

Compensated Neutron A Pad on NDT-A

Sonde ID :NDT-BD-123

Source ID :N-1045

Pad ID :CNP-AA-111-

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	44.17
PHIN	6.80	10.20	43.37

Tool: LDT-DF **Length:** 9.72 ft. **O.D.** 4.80 in.

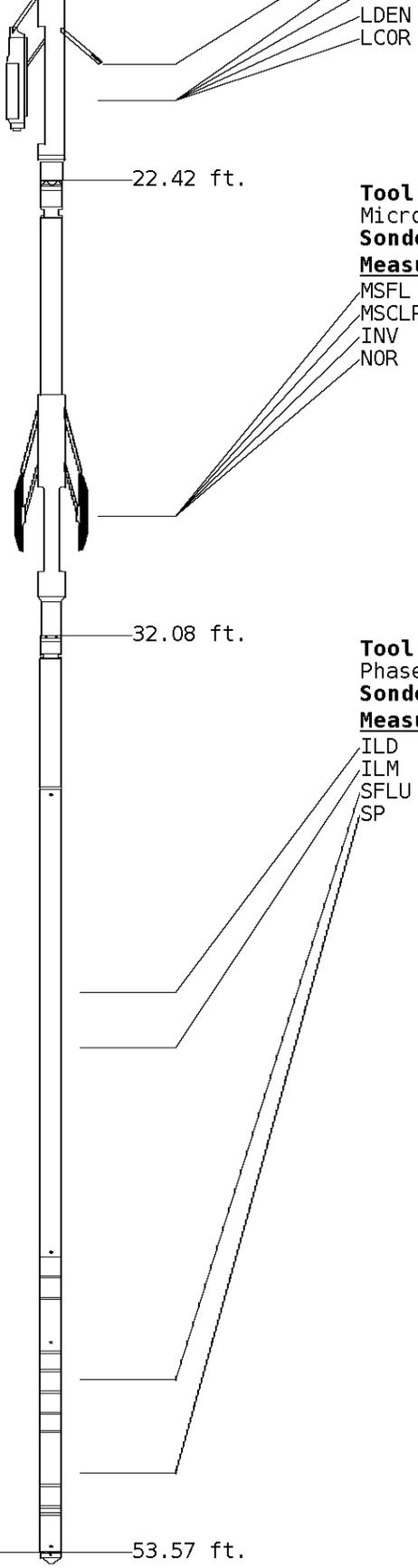
Litho Density D Pad on NDT-F

Sonde ID :NDT-AH-116

Source ID :2991GW

Pad ID :LDP-DA-067

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.42	19.12	34.45
PEL	7.42	20.12	33.45
PES	7.82	20.52	33.05



7.62	20.32	33.25
7.62	20.32	33.25

Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
 Micro Spherically Focused (IC)
Sonde ID :MST-DA-26

Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	30.02	23.55
MSCLP	7.60	30.02	23.55
INV	7.60	30.02	23.55
NOR	7.60	30.02	23.55

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-CA-077

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	41.00	12.56
ILM	10.10	42.18	11.39
SFLU	17.49	49.57	4.00
SP	20.60	52.68	0.88

Well File: trip-crow-flax-a1-24-mar-31	Scale: 1:240	Format: COMSAT
Segment: V1.D1.S5 MN	Acquired: 2015-03/31 16:57 3.4.0-13477	
Reference: 0	Processed: 2015-03/31 18:22 3.4.0-13477	

CALIPER MICRO INCHES (IN)	
16	26
6	16

BIT SIZE INCHES (IN)

NORHAL
OHNN

6	16
NEUTRON (Y) CALIPER INCHES (IN)	
16	26
6	16

0	40
INVERSE OHMM	
0	40

DENSITY (X) CALIPER INCHES (IN)	
16	26
6	16



DENSITY CORRECTION G/CC	
-0.75	0.25

TENSION LBS	
10000	0



SHALLOW FOCUSED RESISTIVITY OHMM	
0.2	2000.0

PE CROSS-SECTION BARN/ELECTRON	
0	20

SPONTANEOUS POTENTIAL mV	
→ ← 20	



DEEP INDUCTION OHMM	
0.2	2000.0

DENSITY POROSITY (2.71g/cc) PERCENT	
70	30
30	-10
-10	-50

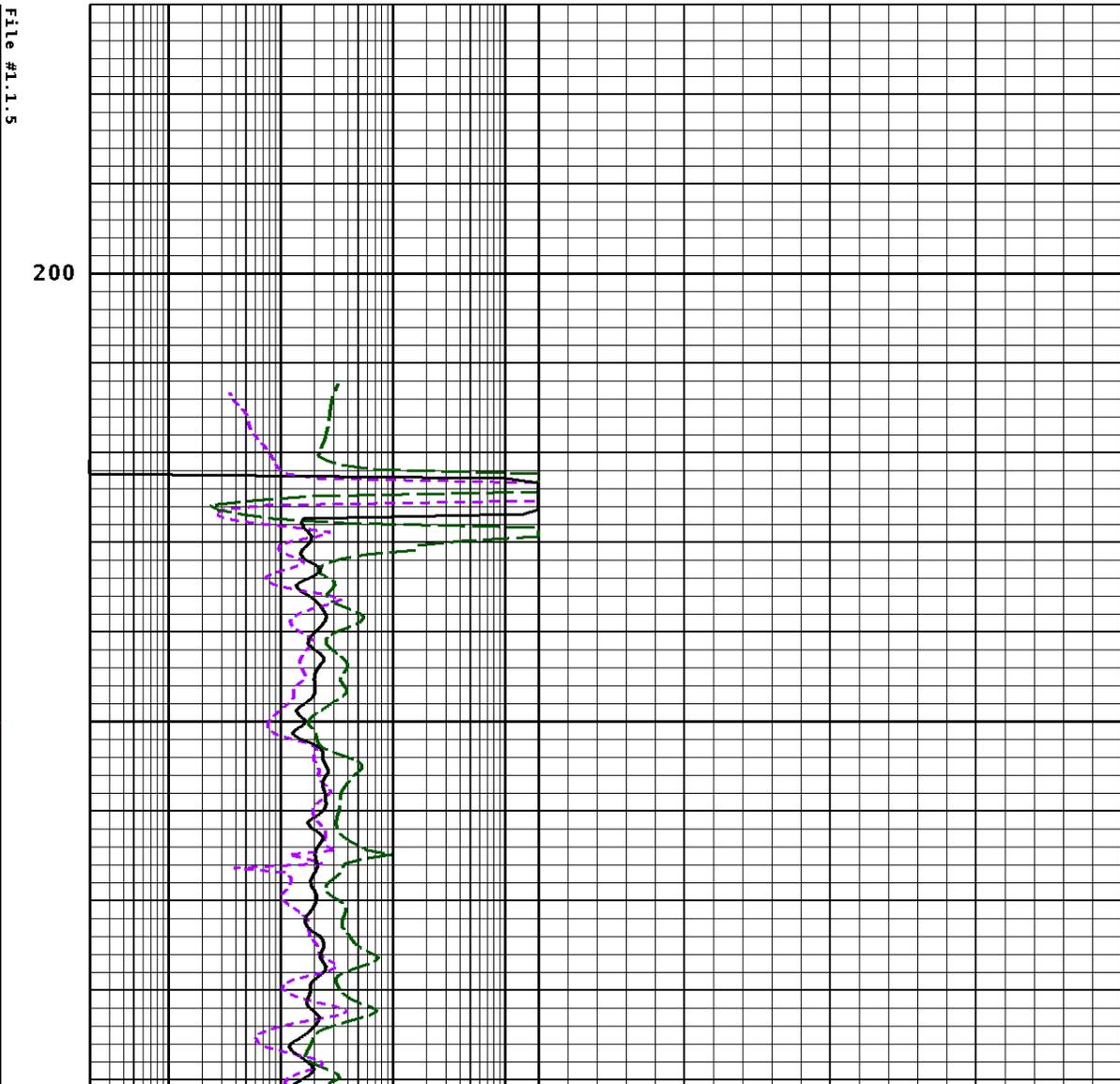
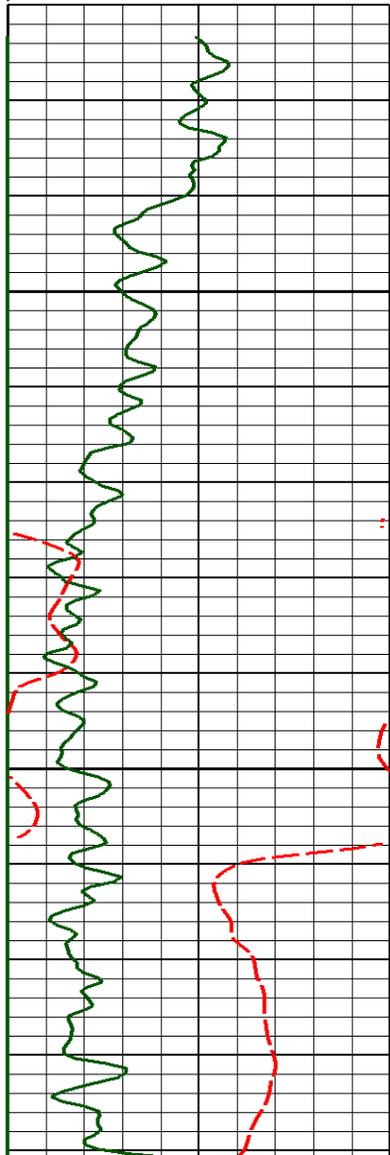
GAMMA RAY API UNITS	
150	300
0	150



MEDIUM INDUCTION OHMM	
0.2	2000.0

NEUTRON POROSITY (LIMESTONE) PERCENT	
30	-10

1:240 MAIN SECTION

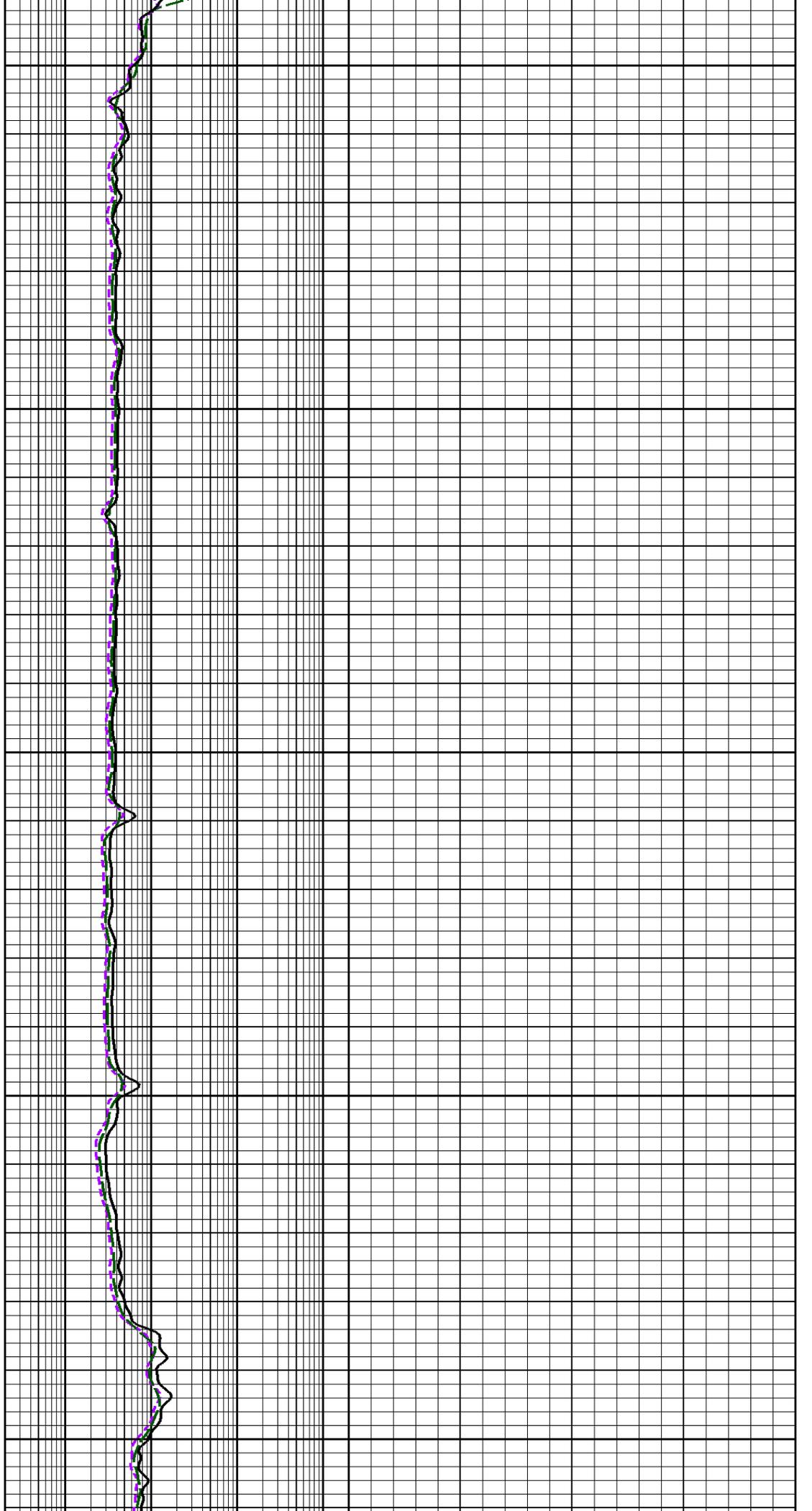


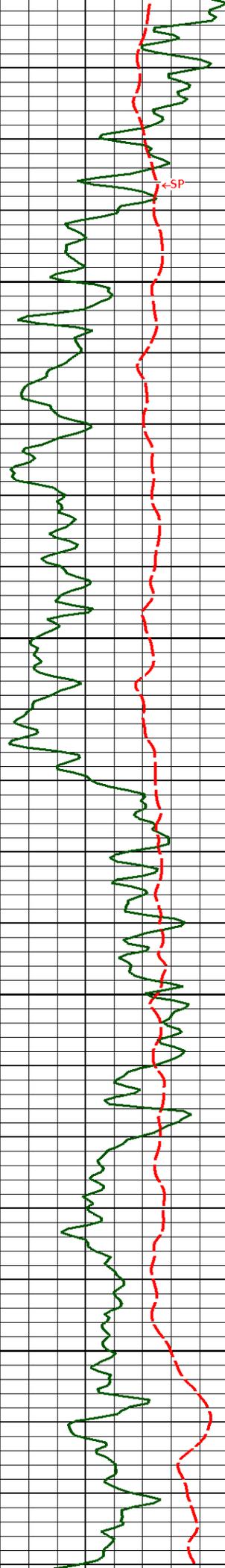


300

400

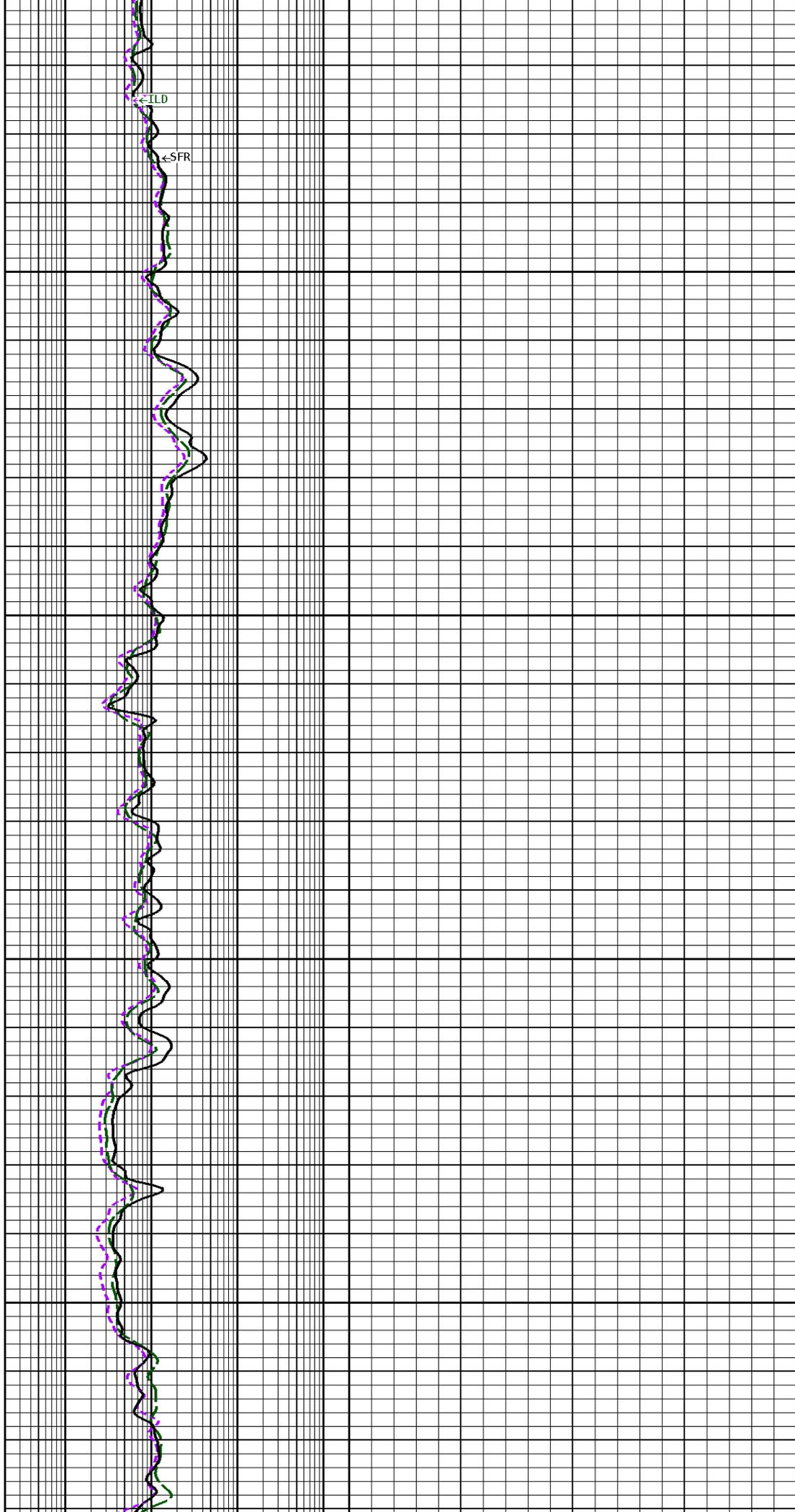
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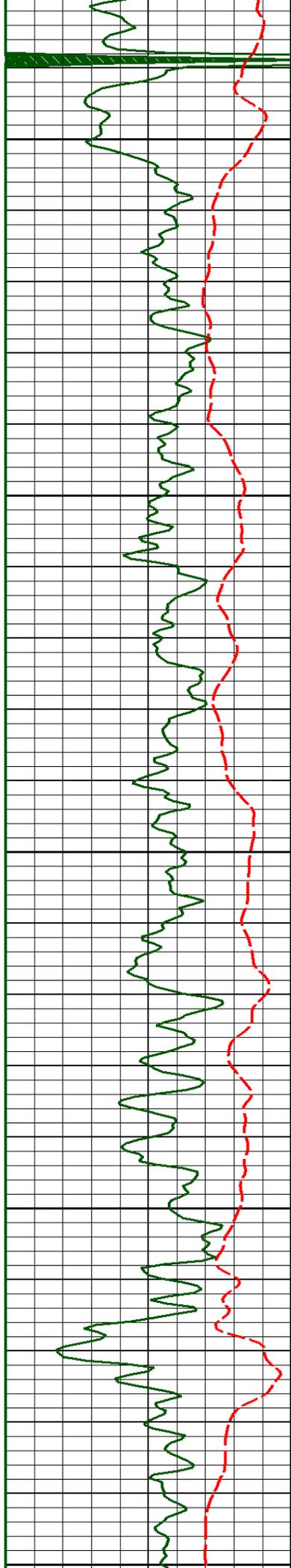
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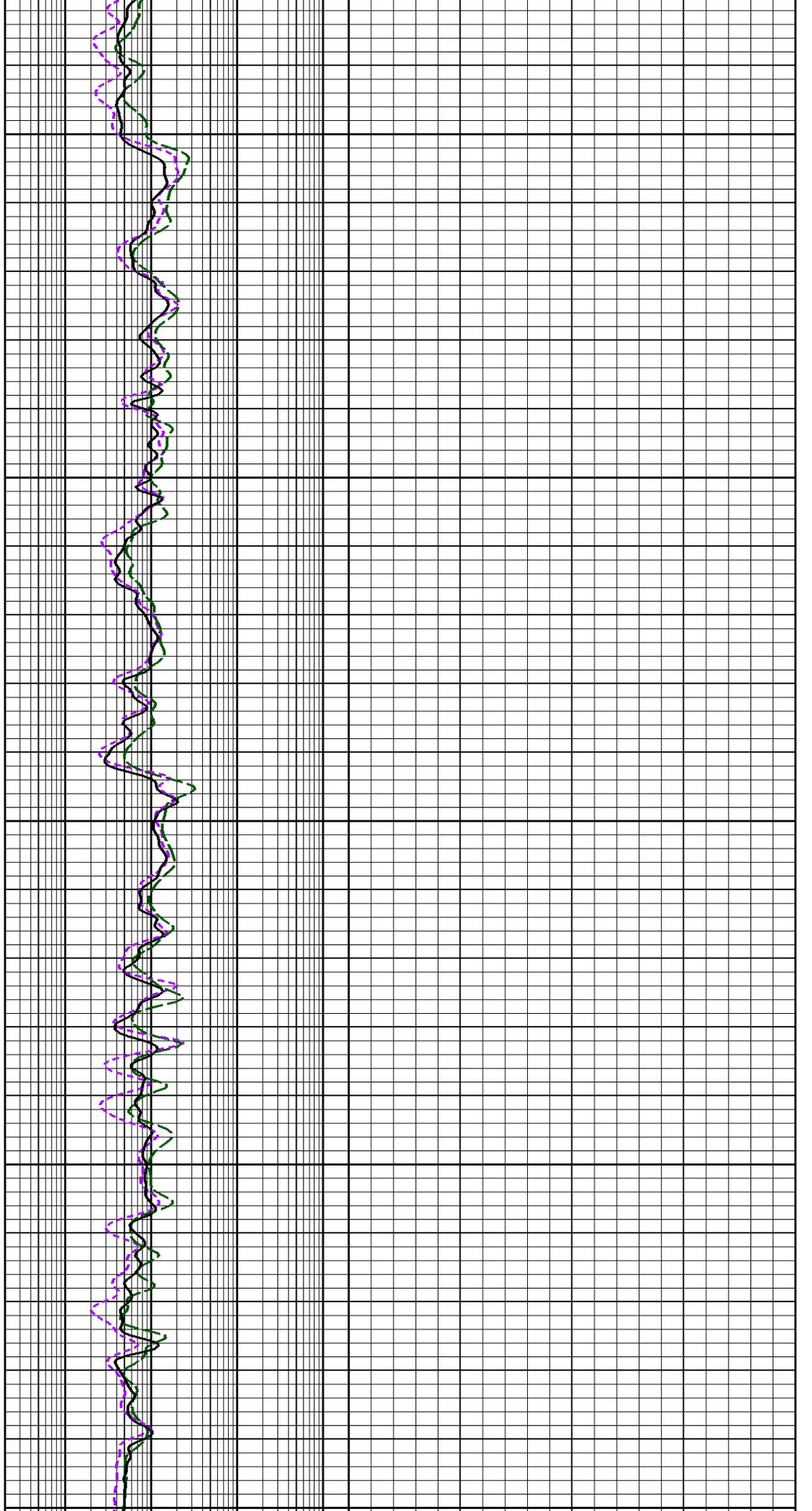
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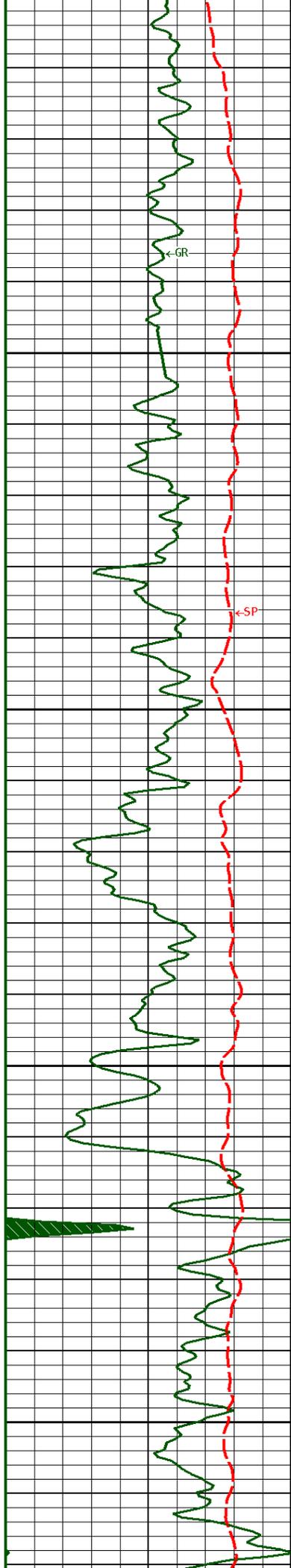
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800

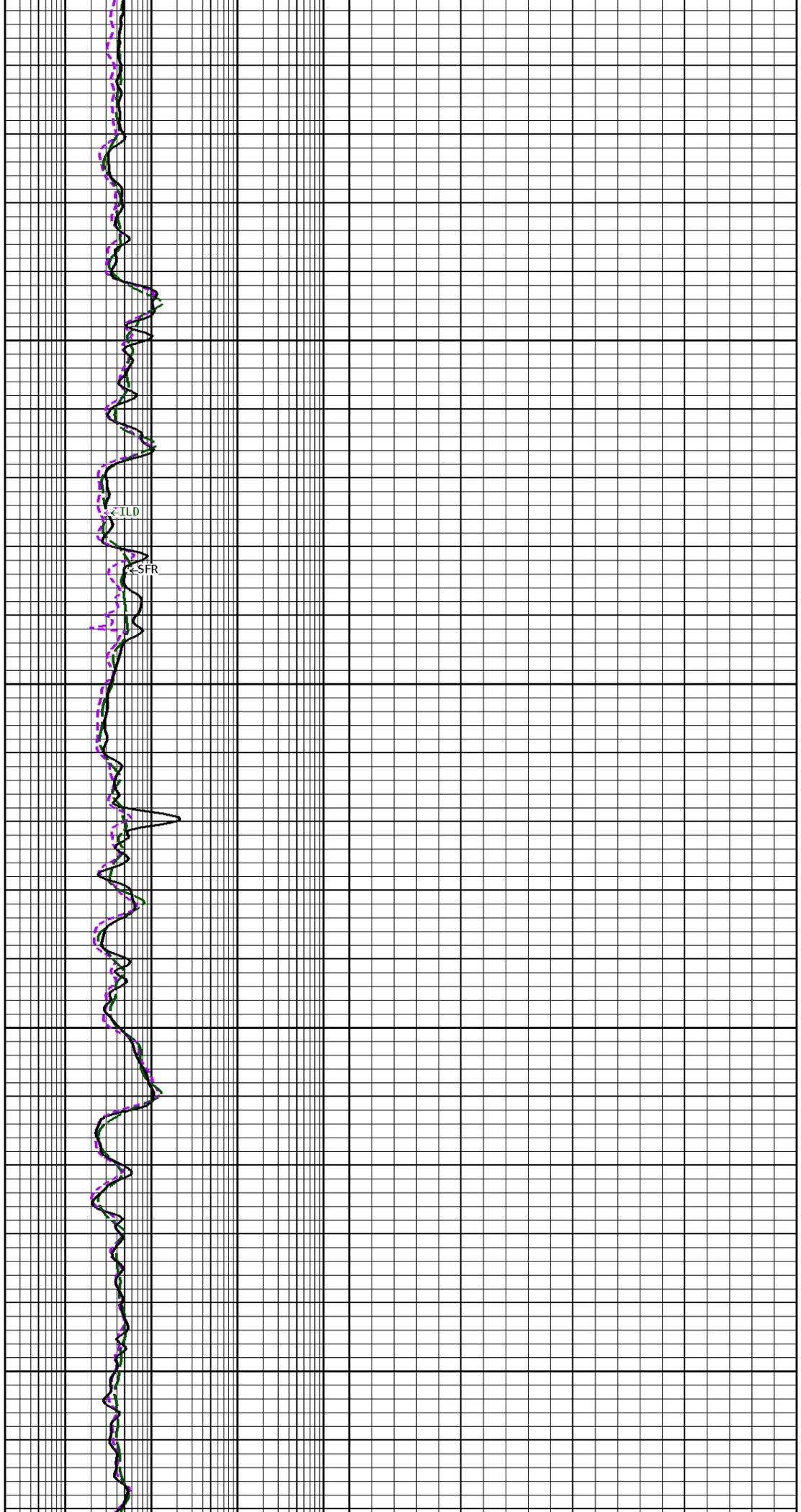
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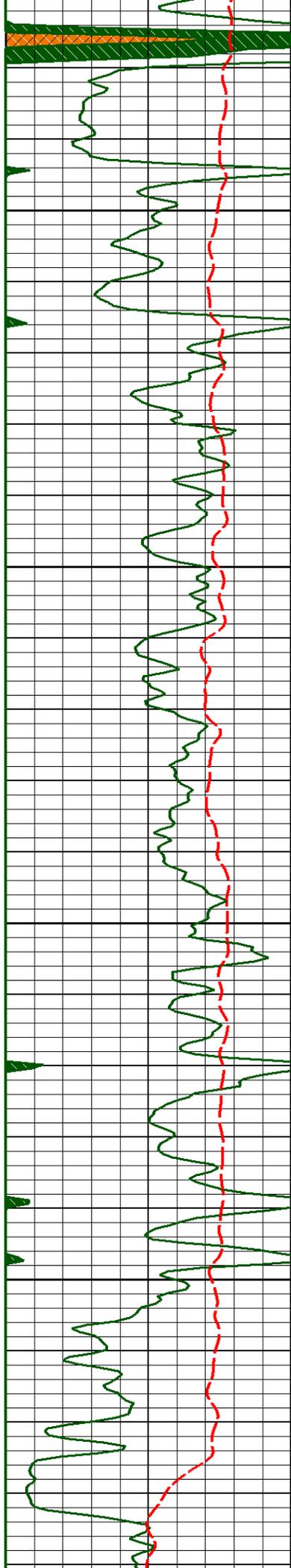




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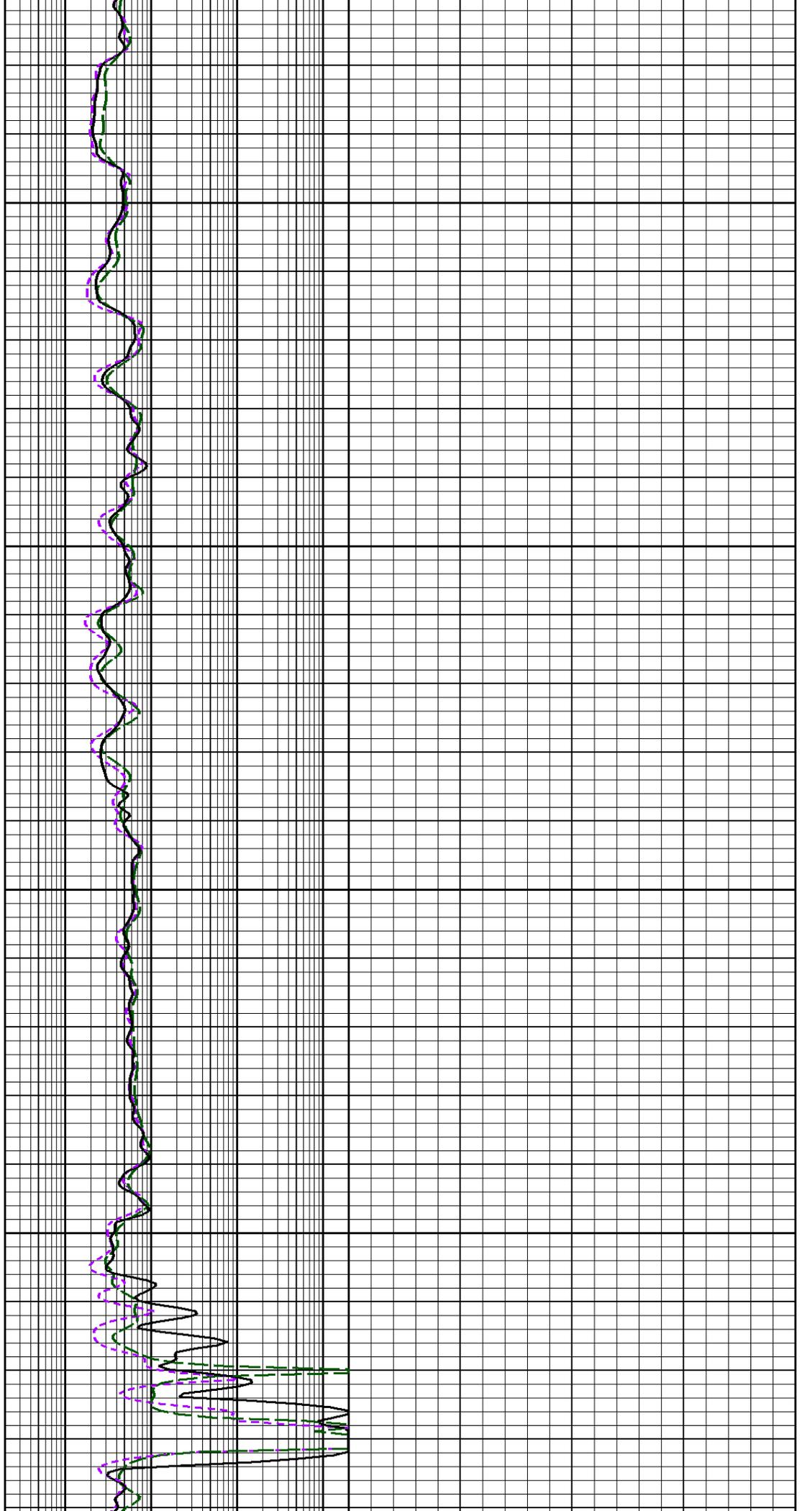
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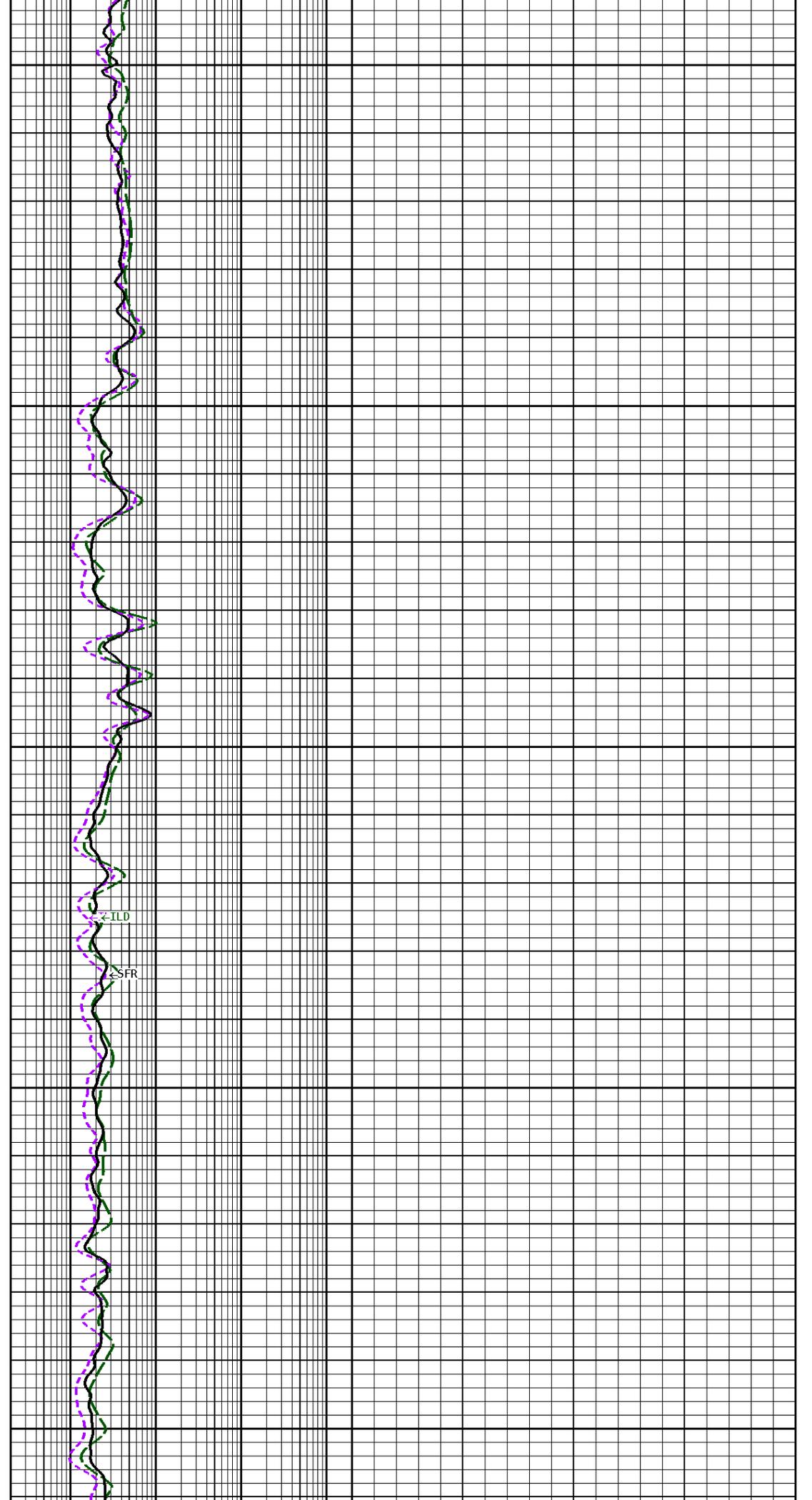
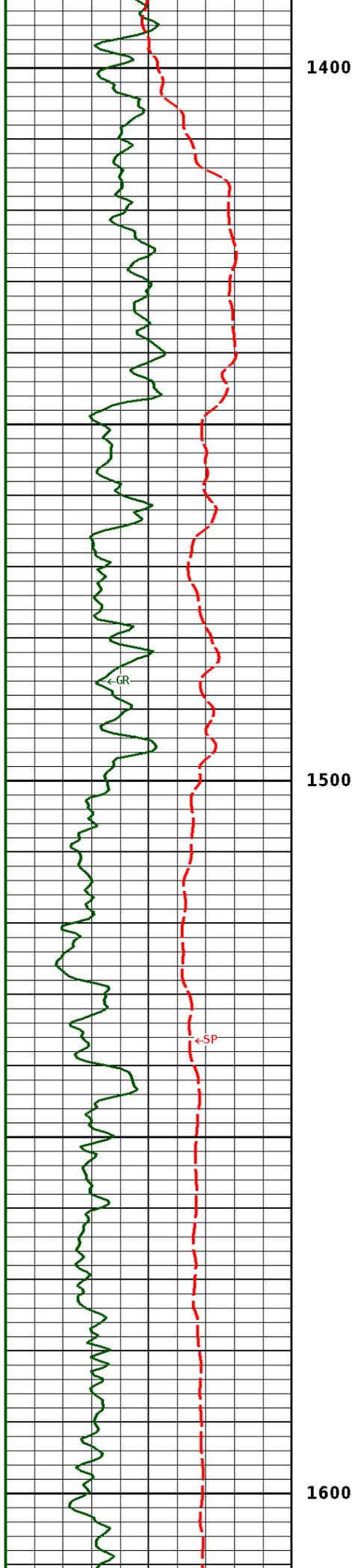


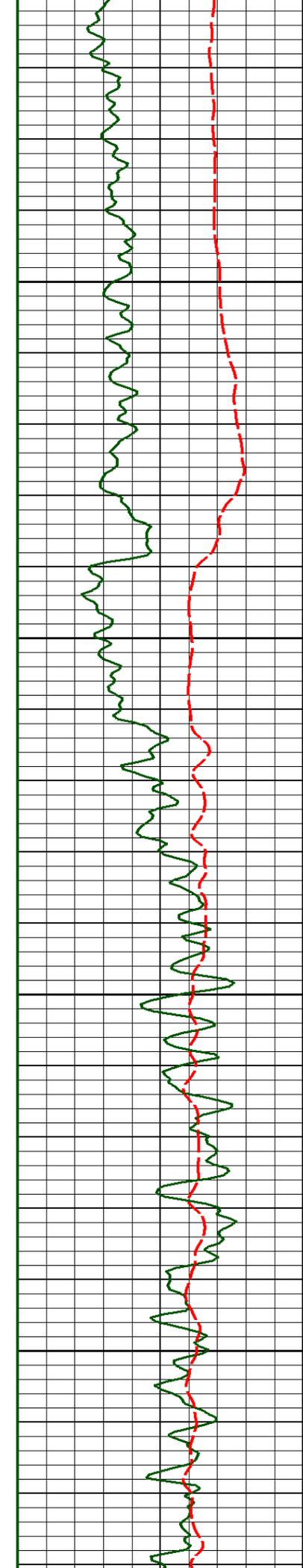


1200

1300

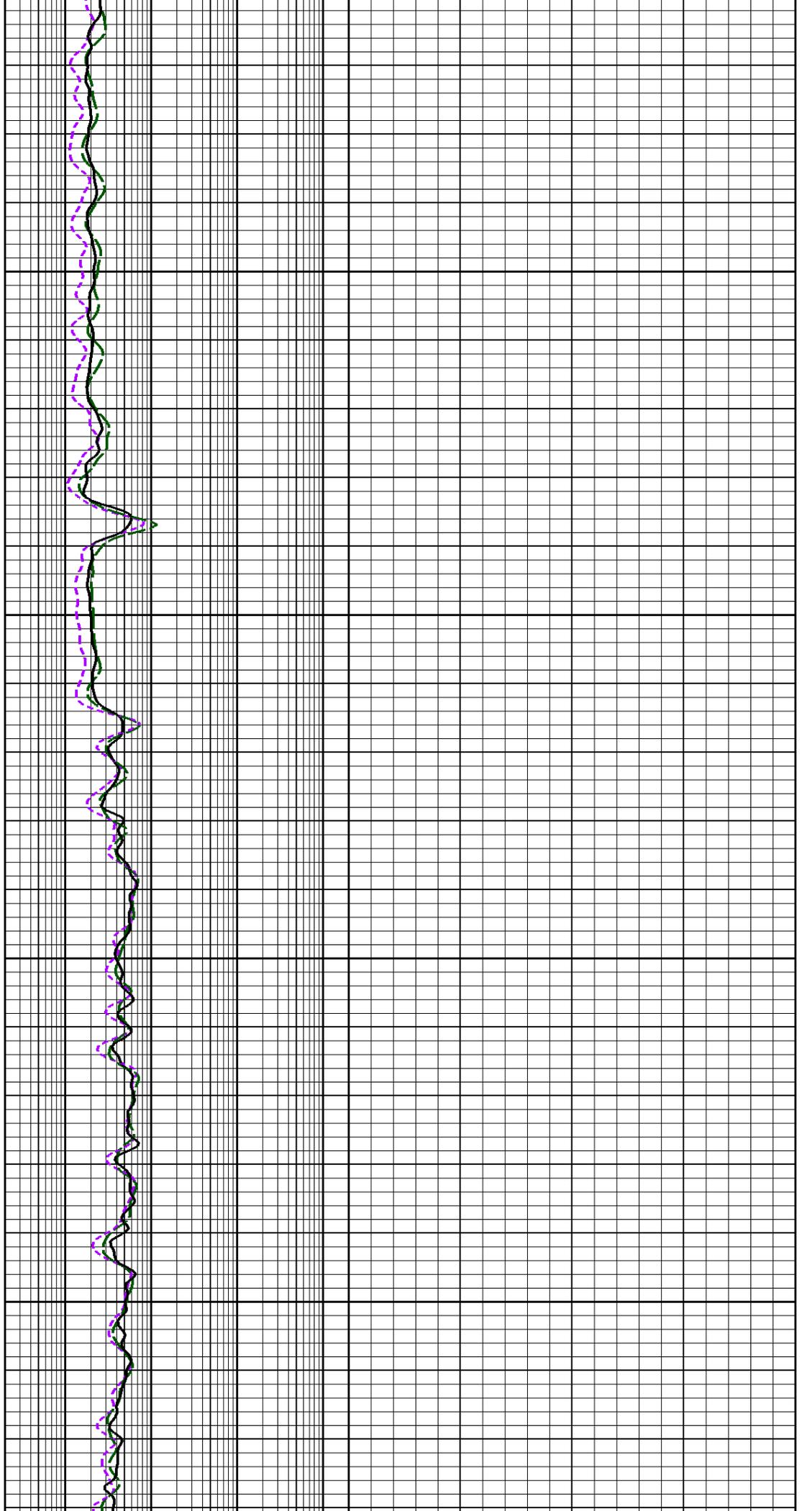


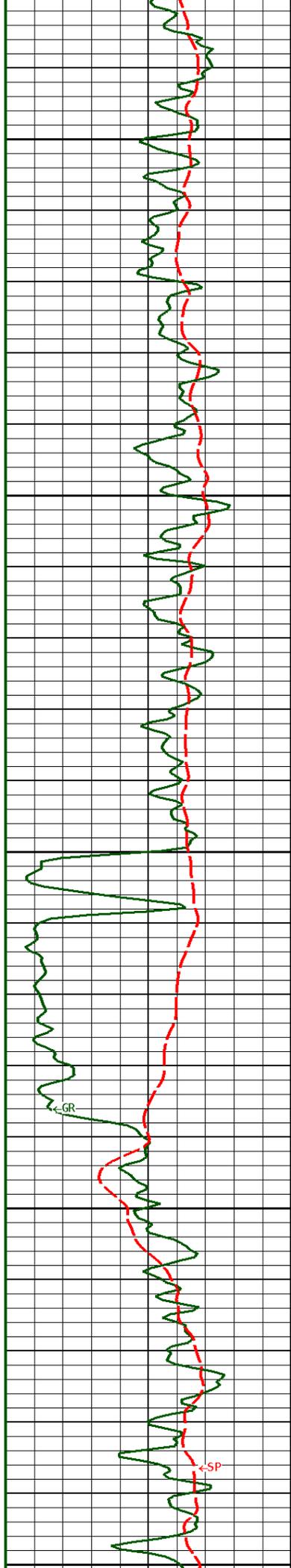




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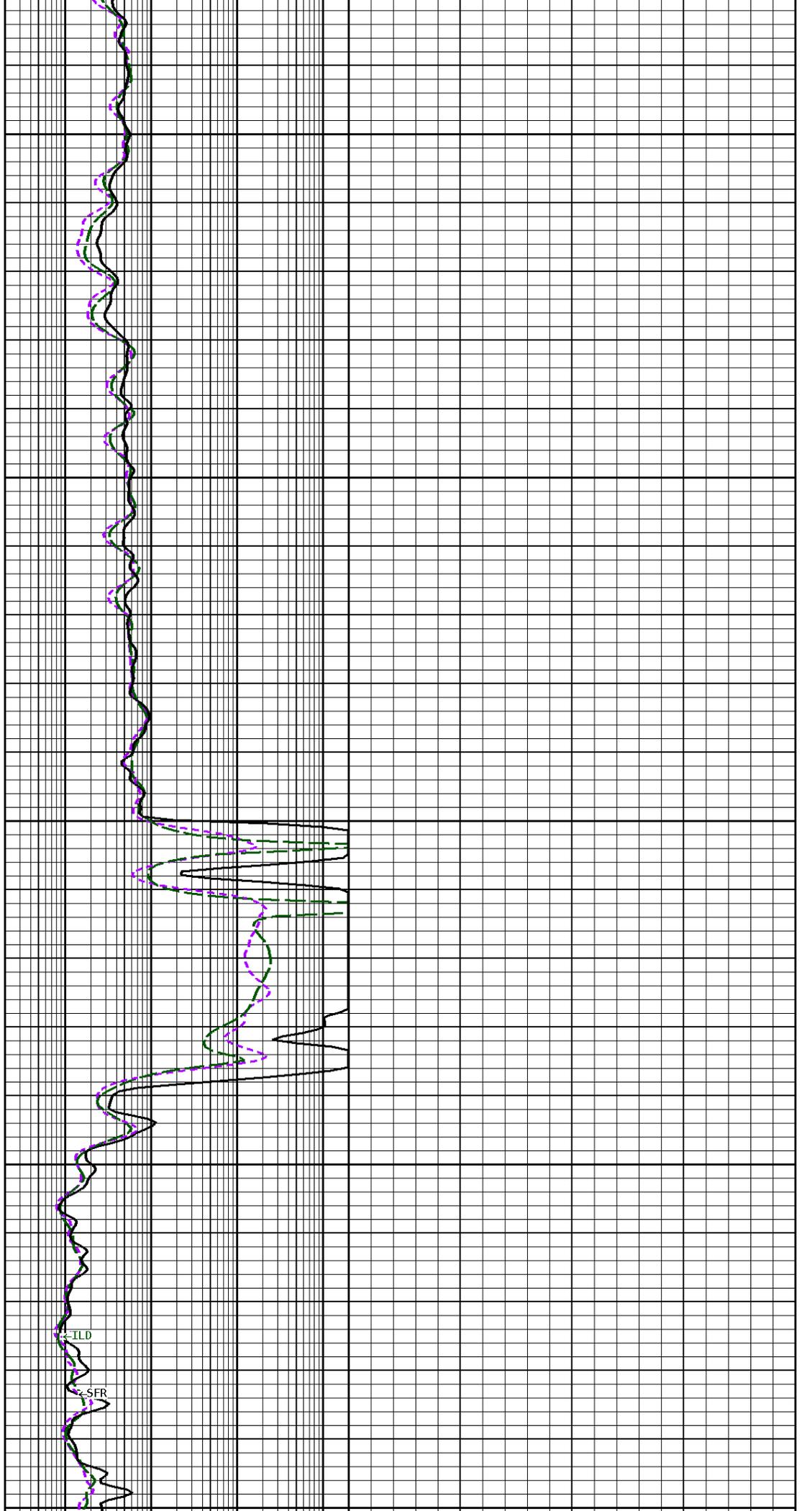
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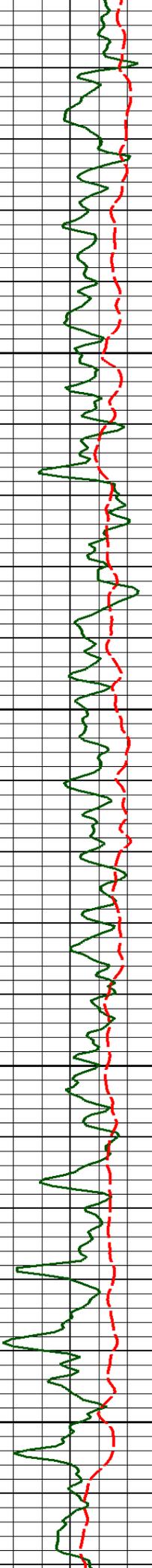
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2000



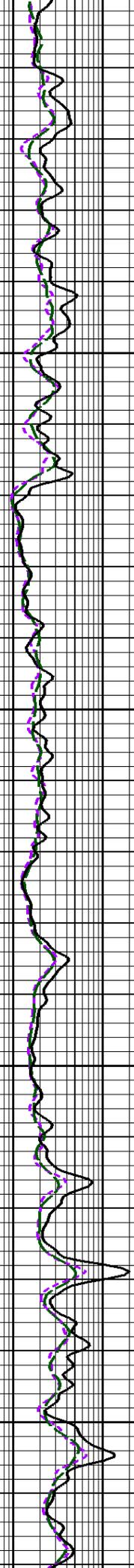
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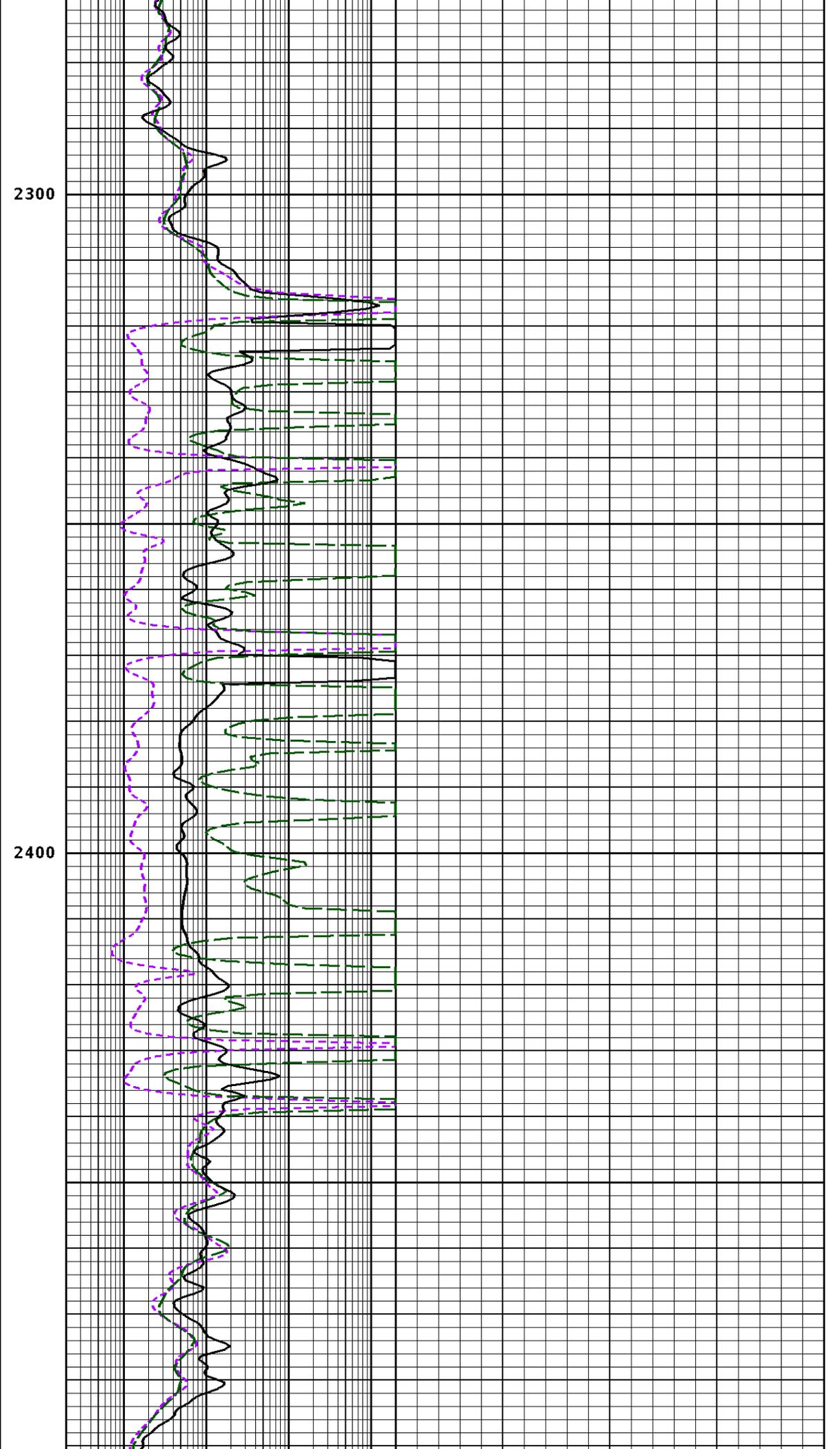
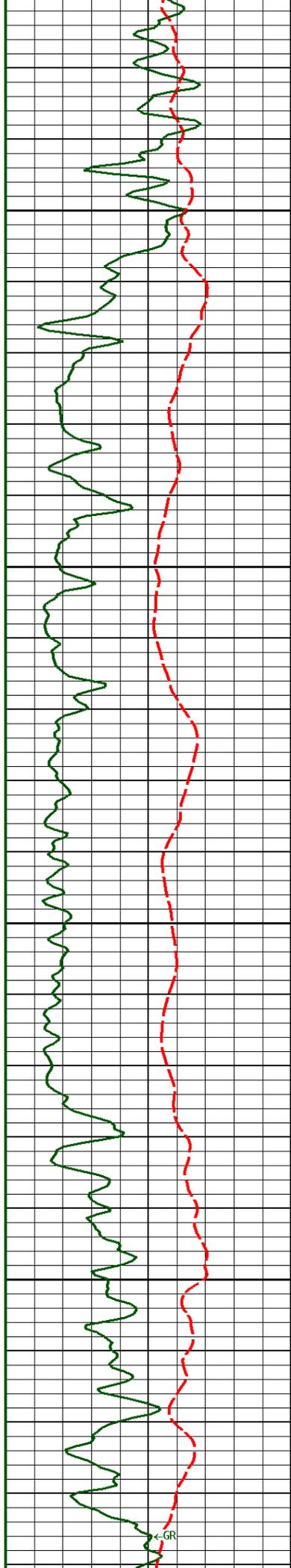
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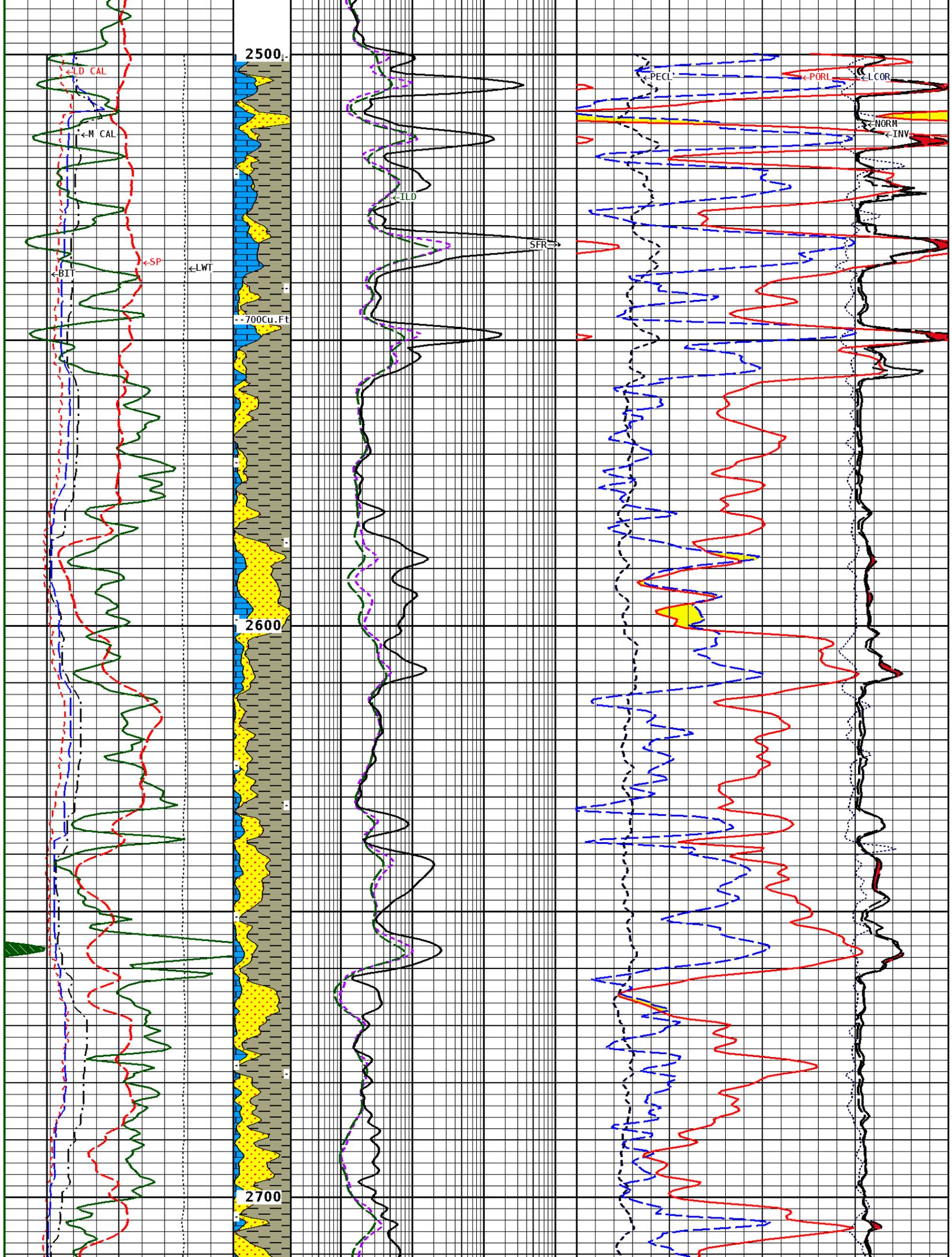


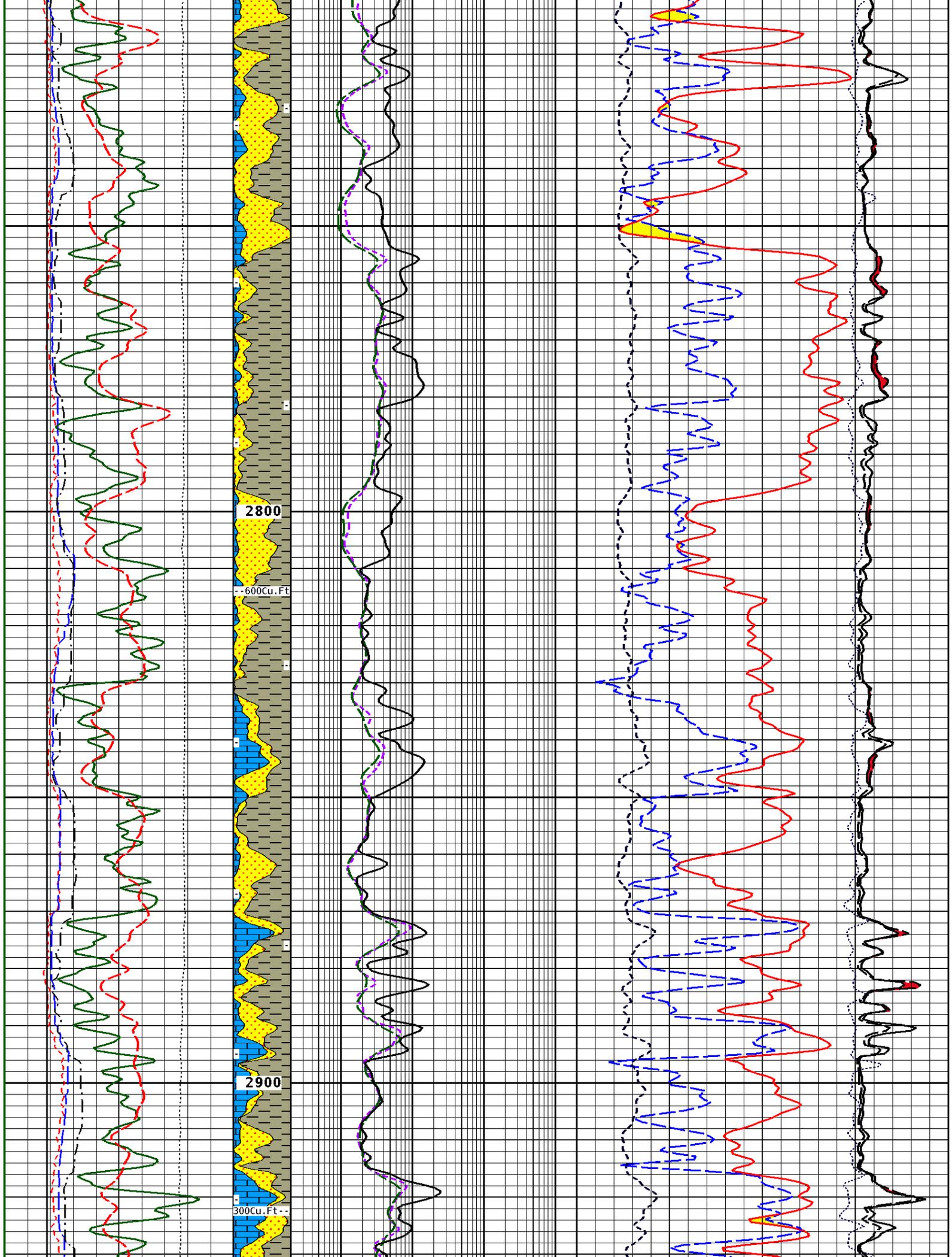
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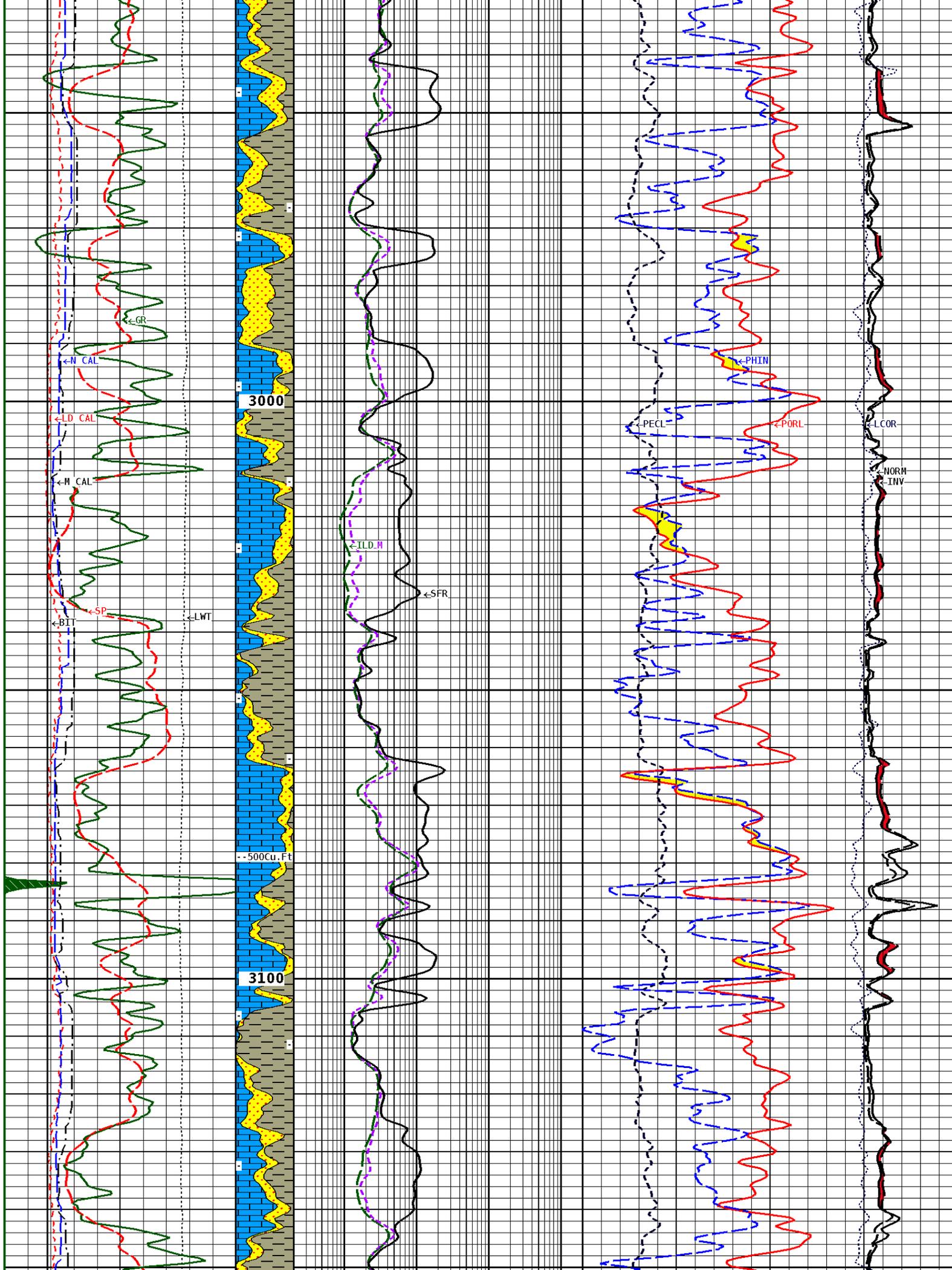
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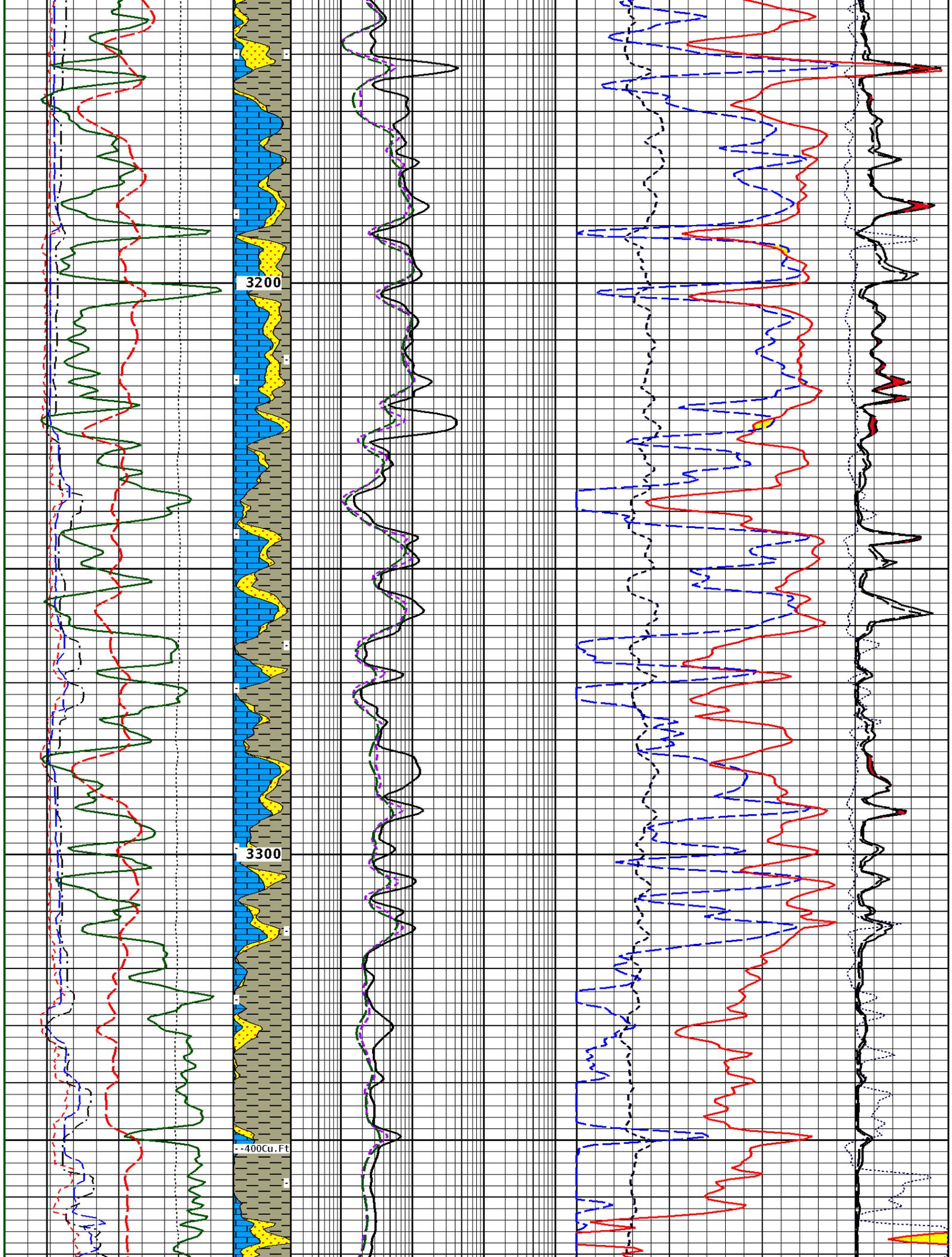


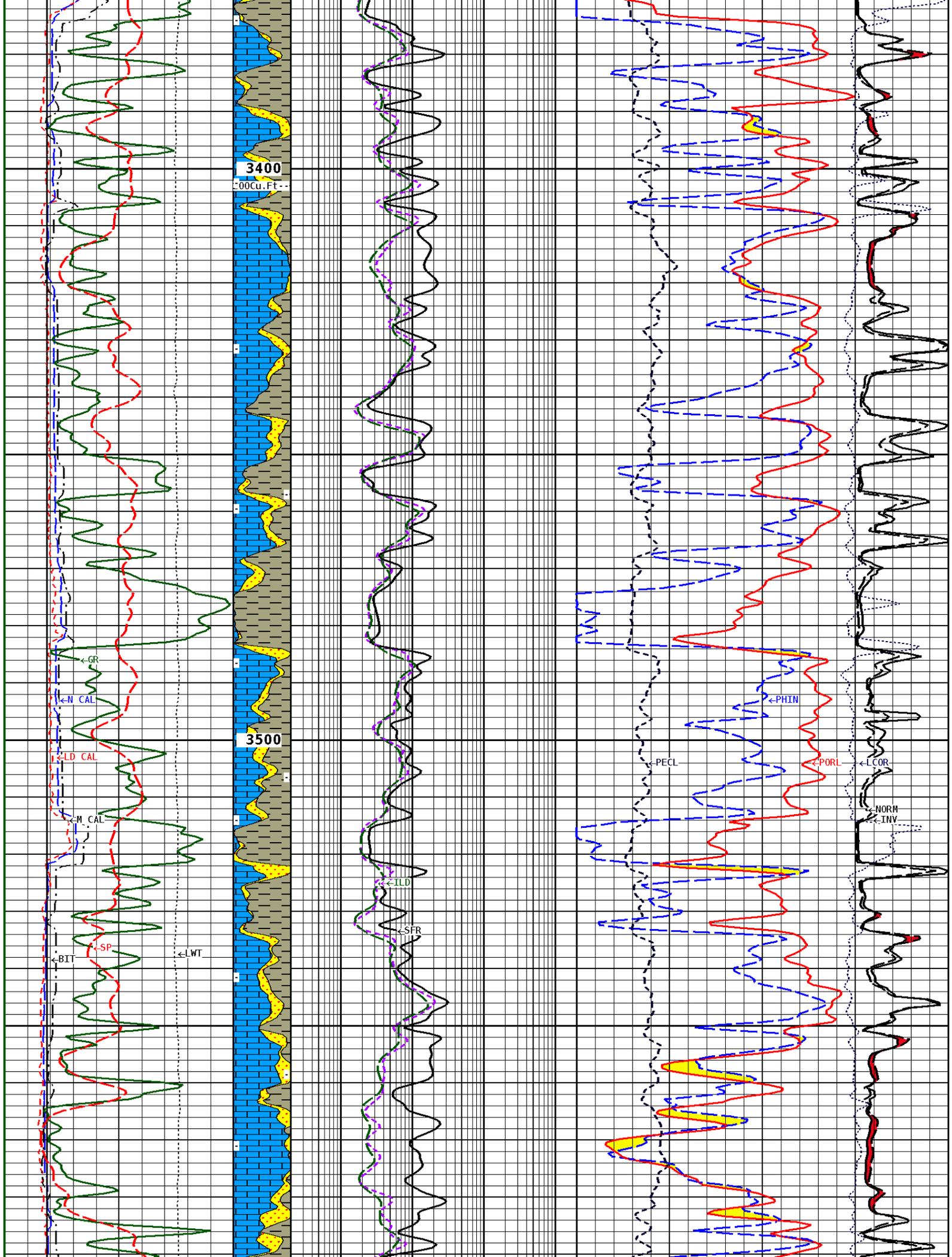


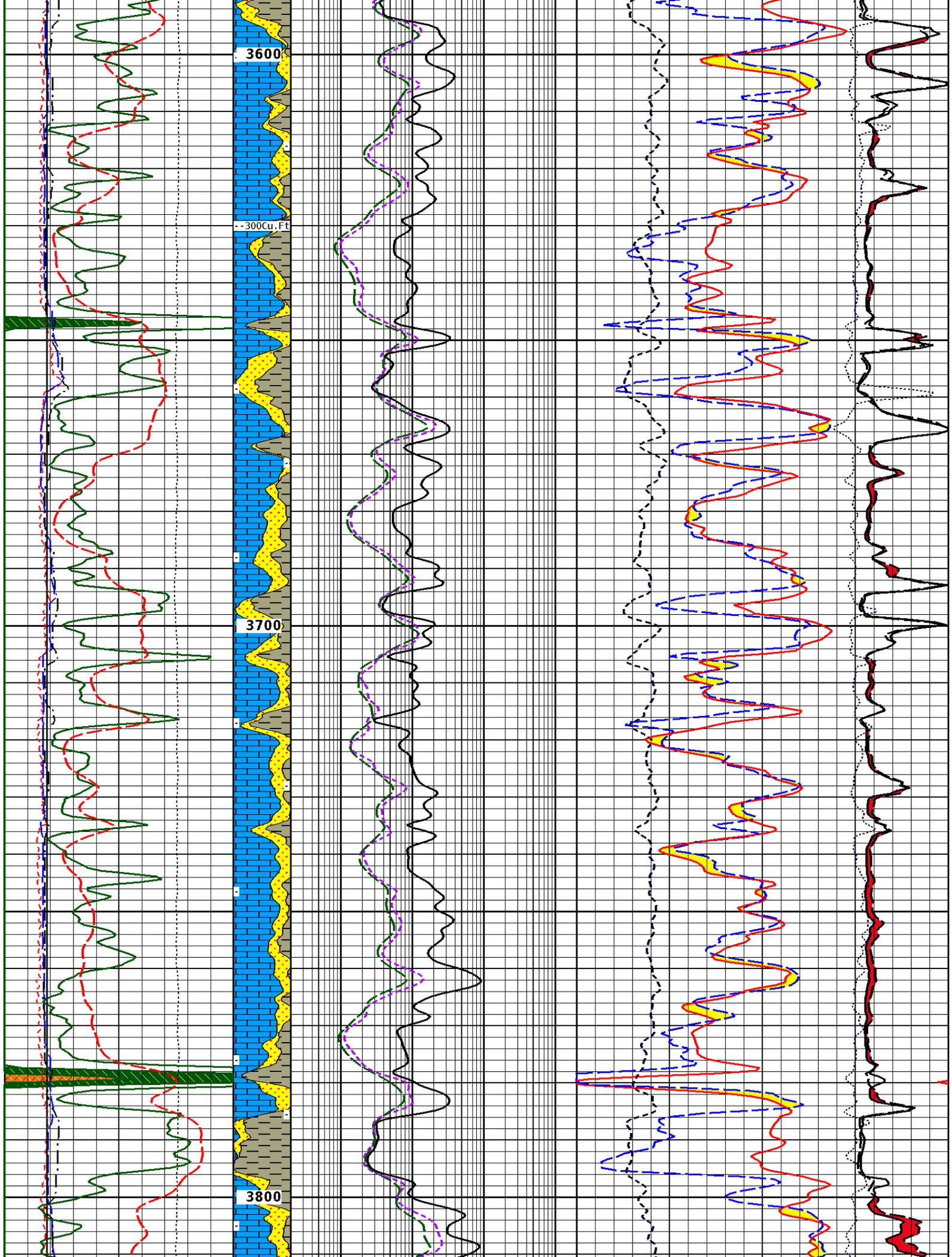


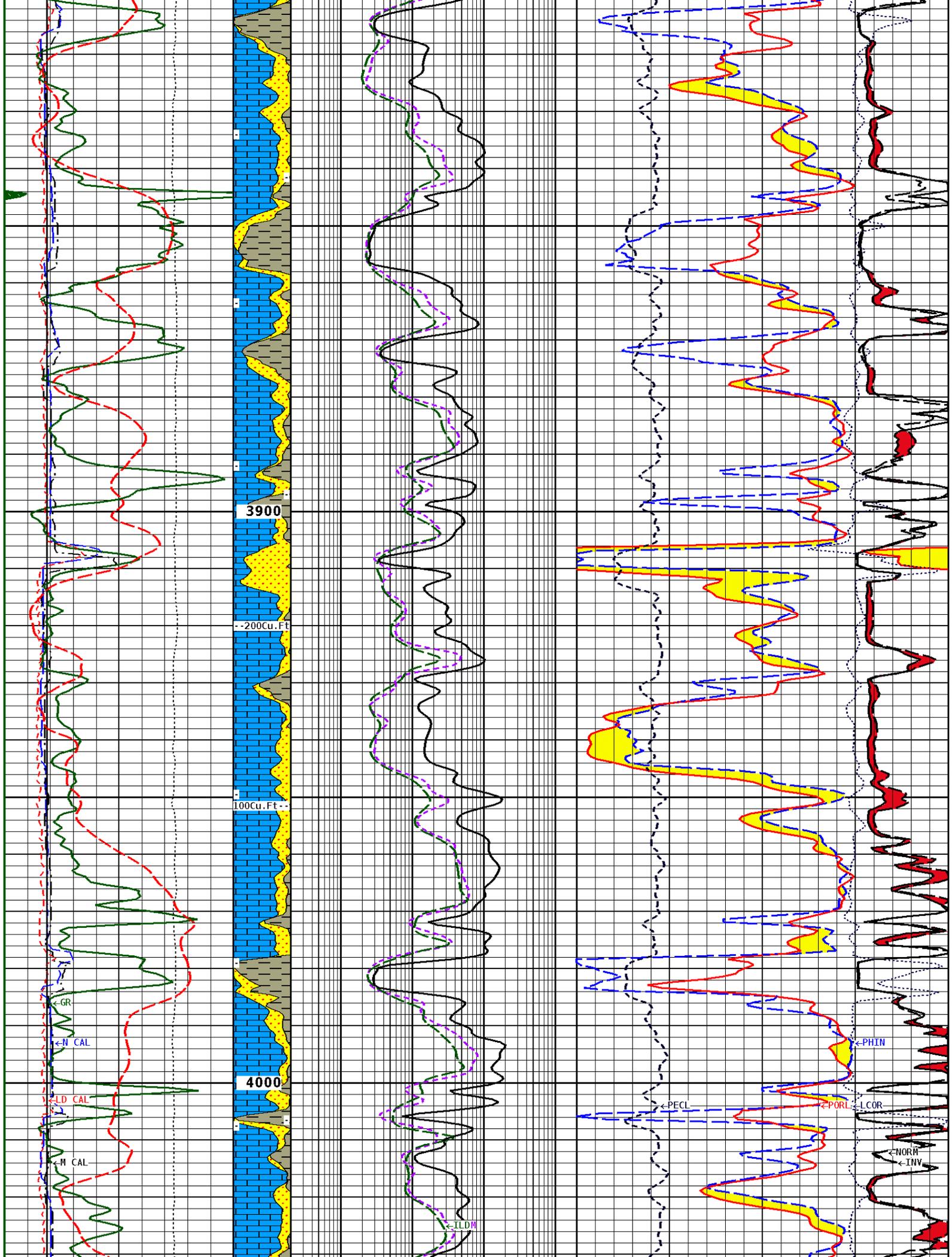


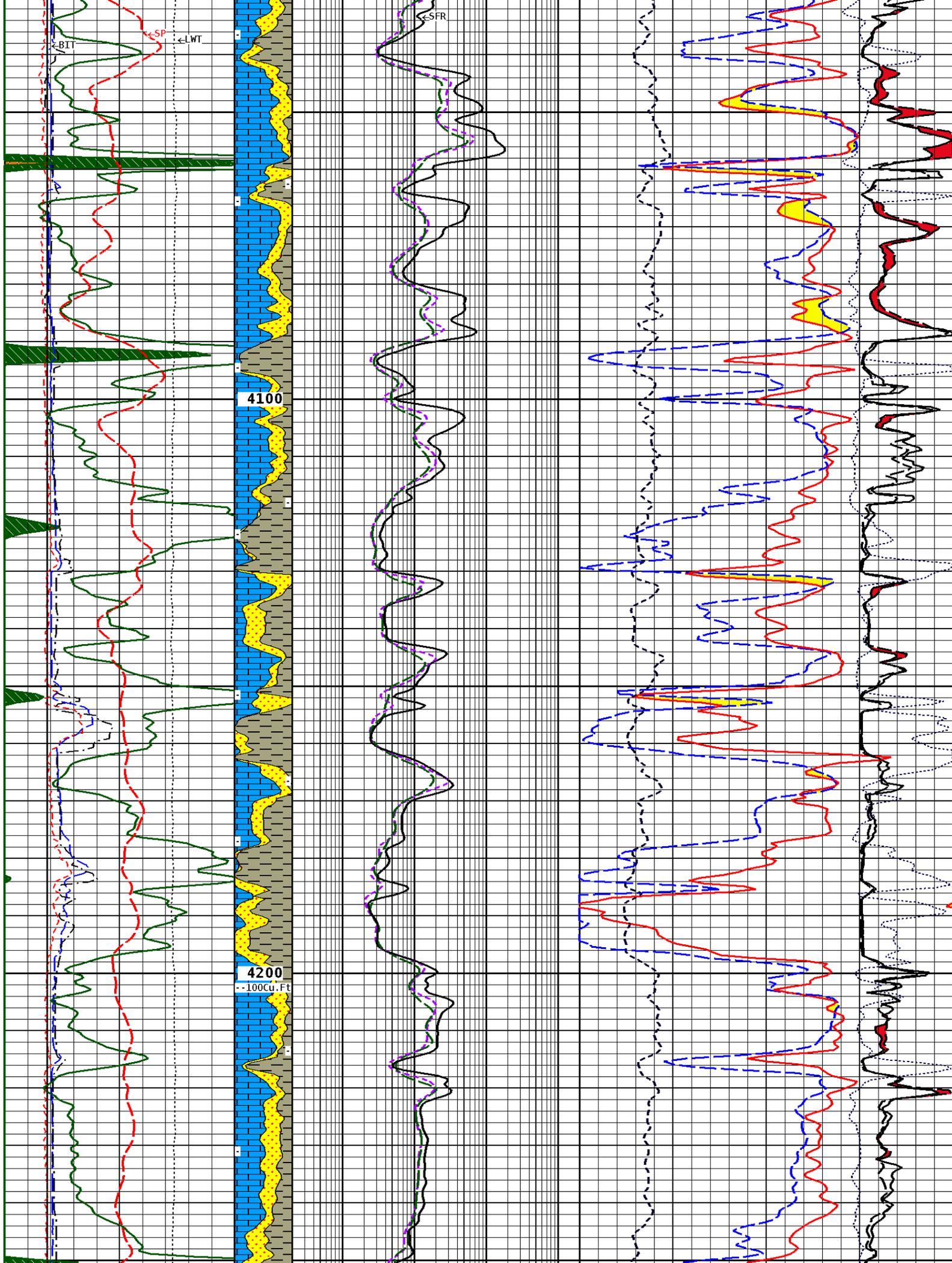


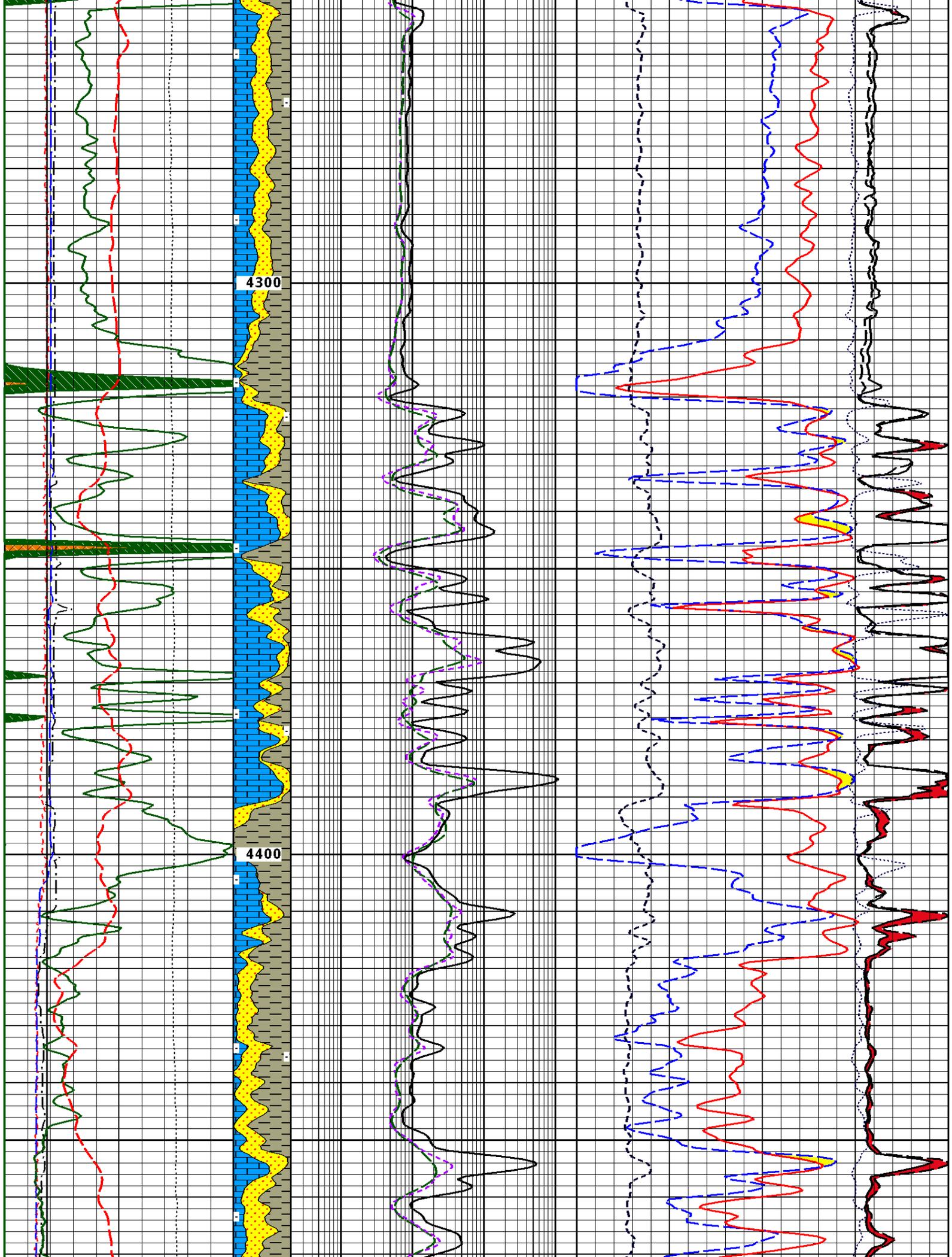


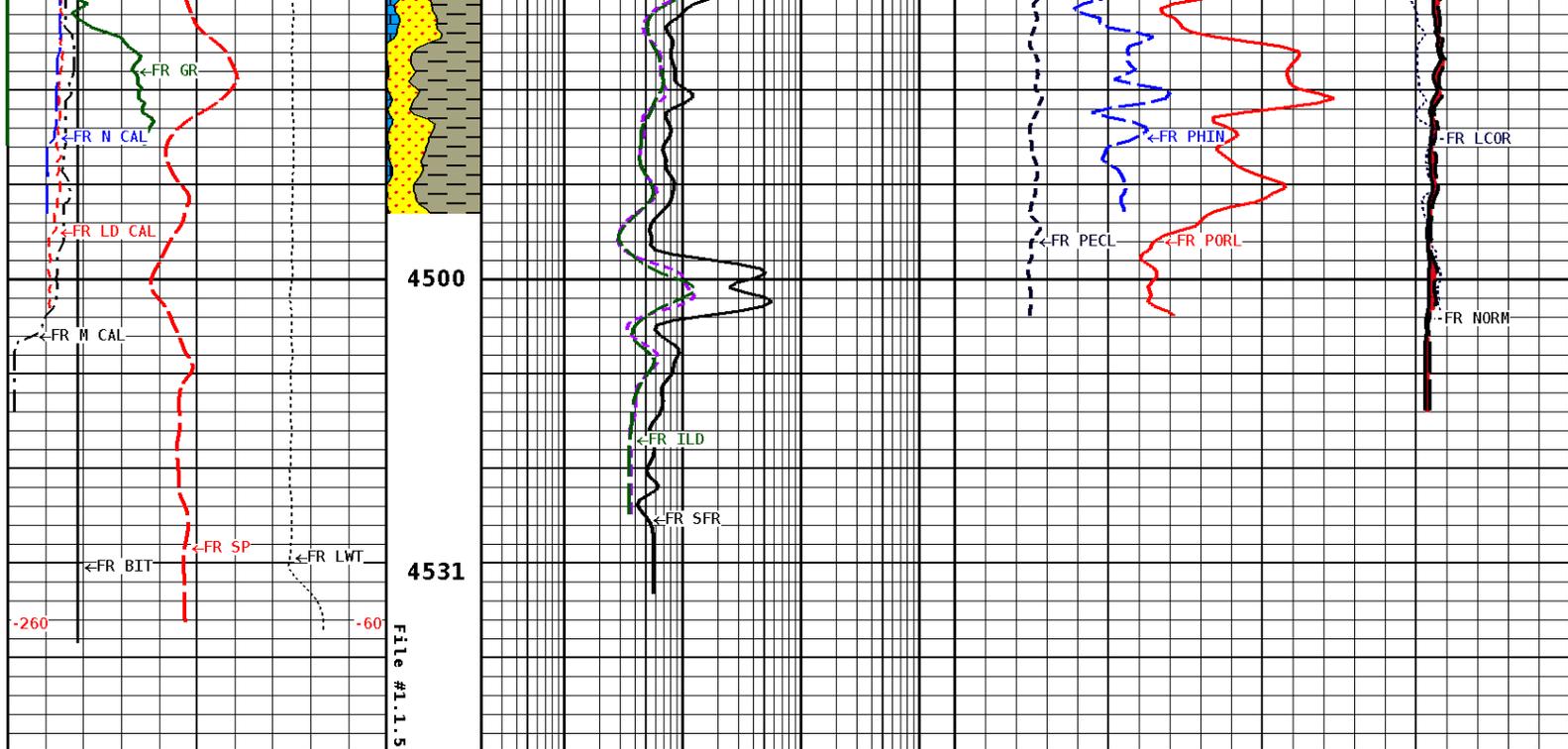












1:240 MAIN SECTION

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

* Borehole Zone Factors *

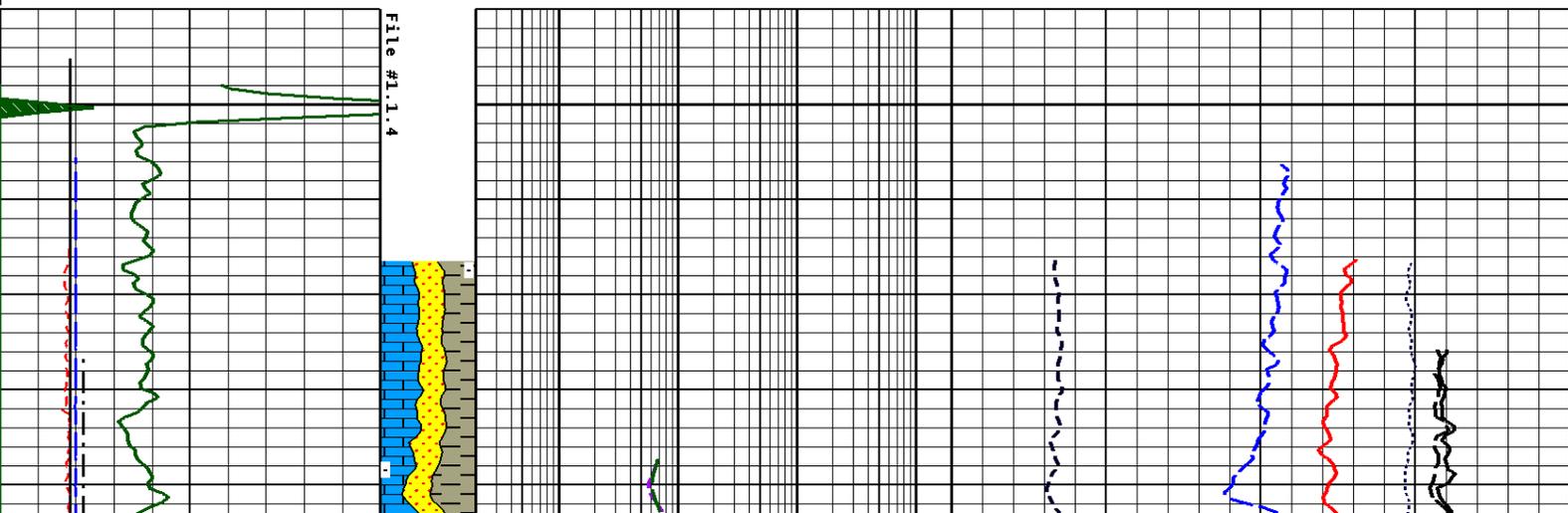
Zone 1 99999.0 to 0.0 Feet			
Matrix Density	_____	2.71	g/cc
Fluid Density	_____	1.00	g/cc

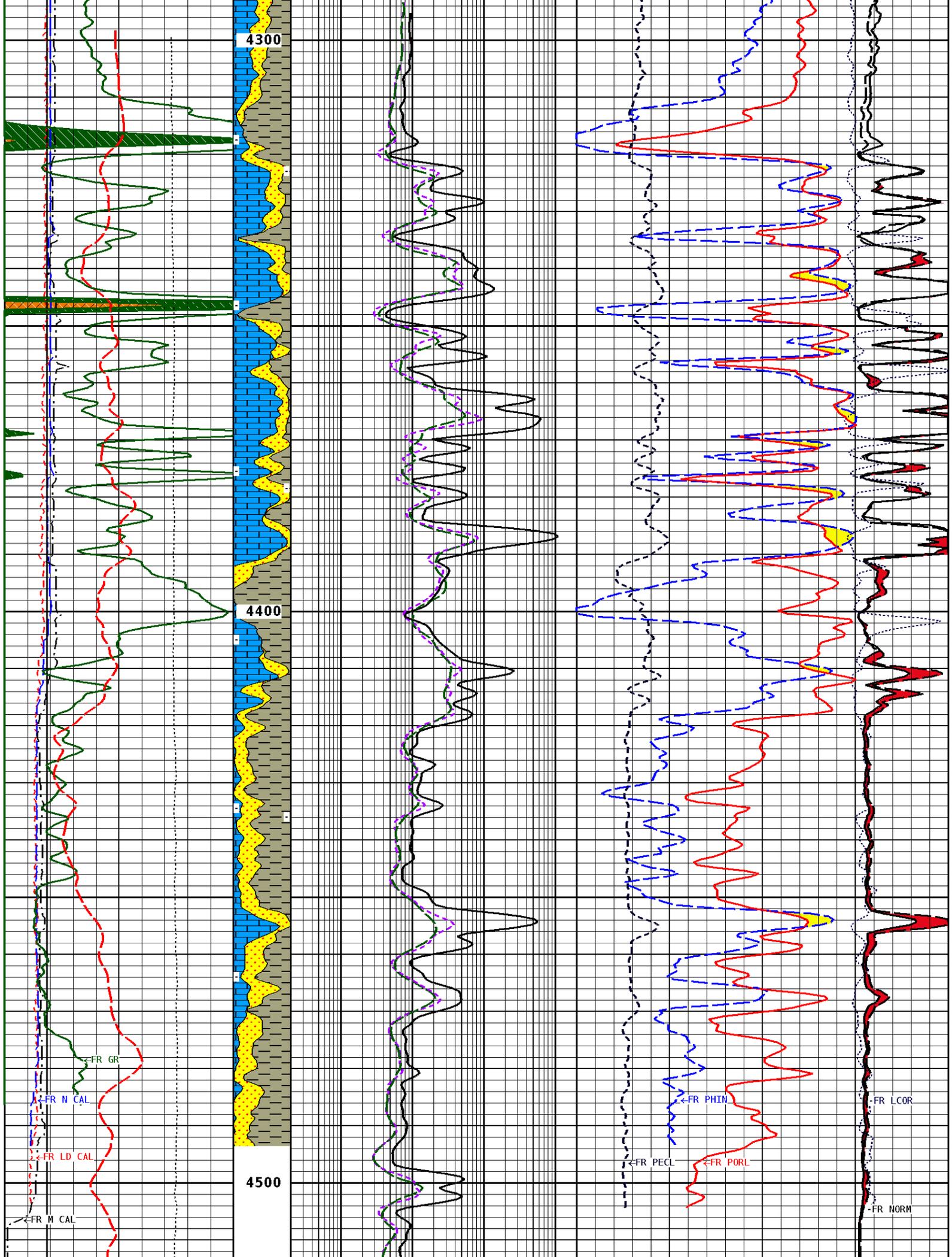
Formation Matrix	Limestone
Drill Bit Size	7.875 in
Casing Diameter	5.500 in
Casing Thickness	0.250 in
Casing Correction (PHI N)	Disable
Hole Substance	Fluid
BHT Depth	4531.000 ft
Borehole Temperature	120.0 degF
Temperature Gradient	1.00 DFHF
Resistivity Of Mud	0.800 ohm/m
MSTNG Normal Correction	-1.00 ohm/m
MSTNG Inverse Correction	0.00 ohm/m

Well File: trip-crow-flax-a1-24-mar-31 Scale: 1:240 Format: COMSAT
 Segment: V1.D1.S4 RP Acquired: 2015-03/31 16:43 3.4.0-13477
 Reference: 0 Processed: 2015-03/31 18:22 3.4.0-13477

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

1:240 REPEAT SECTION





4300

4400

4500

←FR GR

←FR N CAL

←FR LD CAL

←FR M CAL

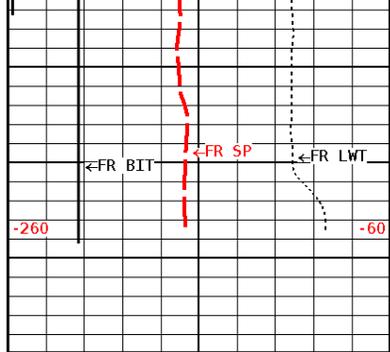
←FR PHIN

←FR PECL

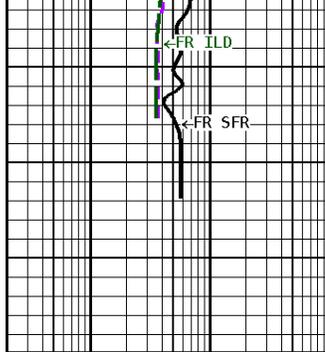
←FR PORL

←FR LCOR

←FR NORM



4531
File #1.1.4



1:240 REPEAT SECTION

GAMMA RAY API UNITS 150 0 300 150	BHV AHV CU. FT 0.2 2000.0	MEDIUM INDUCTION OHMM 0.2 2000.0	NEUTRON POROSITY (LIMESTONE) PERCENT 30 -10
SPONTANEOUS POTENTIAL mV → ← 20	Volume Dolo/Shale 	DEEP INDUCTION OHMM 0.2 2000.0	DENSITY POROSITY (2.71g/cc) PERCENT 70 30 -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	4531.000	ft
Borehole Temperature	120.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	0.800	ohm/m
MSTNG Normal Correction	-1.00	ohm/m
MSTNG Inverse Correction	0.00	ohm/m

*** Calibration Summary ***

Shop Calibration GRT-B						
Performed : 10-NOV-2014			Time : 17:59			
Sensor Suite : GR-GR5			ID : GRT-BB-013			
	Measured	Units	Calibrated	Units		
GR	Background	Jig	Jig			
	62	380	175	GRAPI		
Shop Calibration CNT-AA						
Performed : 13-MAR-2015			Time : 10:02			
Sensor Suite : CALI-BCN			ID : NDT-BD-123			
	Jig - Measured		Jig - Calibrated	Units		
	Ring#1	Ring#2	Ring#1	Ring#2		
CL # 1	9.5	14.5	6.0	12.0	IN.	
Shop Calibration LDT-DF						
Performed : 23-Mar-2015			Time : 10:31			
Sensor Suite : BHC NEUT			ID : CNP-AA-111-			
Source ID : N-1045						
	Tank	Verification	Units			
	Measured	Calibrated	Jig			
N/F	3.5807	3.6893	3.6877			
Porosity	18.9	20.5	20.5	%		
Shop Calibration LDT-DF						
Performed : 23-MAR-2015			Time : 13:00			
Sensor Suite : CALI-LTH			ID : NDT-AH-116			
	Jig - Measured		Jig - Calibrated	Units		
	Ring#1	Ring#2	Ring#1	Ring#2		
CL # 1	8.0	13.0	6.0	12.0	IN.	
Shop Calibration LDT-DF						
Performed : 23-Mar-2015			Time : 13:37			
Sensor Suite : BHCPENLNG			ID : LDP-DA-067			
Source ID : 2991GW						
Short Space						
	BKGD	Al	Mg	Al+Fe	Units	
LSW1	61	1081	1742	708	CPS	
LSW2	64	1226	1949	904	CPS	
LSW3	236	2799	4522	2413	CPS	
LSW4	292	2518	3660	2247	CPS	
LSW5	39	65	72	63	CPS	
LSW6	65	70	69	70	CPS	
LSW7	49	51	50	50	CPS	
LSW8	10	11	13	12	CPS	
QS	0.141	0.164	0.160	0.161		
PES			2.778	5.967		
SSDN		2.600	1.680		G/CC	
Long Space						
	BKGD	Al	Mg	Al+Fe	Units	
LLW1	88	1216	5028	742	CPS	
LLW2	99	2069	8175	1532	CPS	
LLW3	369	3771	14472	3270	CPS	
LLW4	471	1795	5771	1625	CPS	
LLW5	51	61	111	59	CPS	
LLW6	156	153	144	155	CPS	
LLW7	98	97	94	98	CPS	
LLW8	3	6	16	5	CPS	
QL	0.231	0.221	0.214	0.223		
PEL			2.697	5.458		
LSDN		2.600	1.680		G/CC	
Shop Calibration MST-DA						
Performed : 12-FEB-2015			Time : 09:56			
Sensor Suite : CALI-MSN			ID : MST-DA-26			
	Jig - Measured		Jig - Calibrated	Units		
	Ring#1	Ring#2	Ring#1	Ring#2		
CL # 1	7.1	11.2	6.0	12.0	IN.	
Shop Calibration MST-DA						
Performed : 12-FEB-2015			Time : 10:03			
Sensor Suite : MSTDA-NI			ID : MST-DA-26			
	Internal	Units	Calibrated	Units		
	Zero	Reference	Zero	Reference		
INV-V	87.0	29241.9	0.00	1546.00	MV	

NOR-V	160.8	30370.9	0.00	1546.00	MV
IN-C	154.0	57456.8	0.00	15.46	UA
INV-R				32.34	OHMM
NOR-R				55.11	OHMM

**Shop Calibration
PIT-CA**

Performed : 24-Mar-2015 Time : 11:02
 Sensor Suite : P-IND-T ID : PIT-CA-077

Medium

	Measured		Calibrated		Units
	R	X	R	X	
Air	130243	130741	0.8	0.3	MMHOS
Zero	131072	131068	30.3	8.4	MMHOS
Reference	257821	259322	5030.3	5008.4	MMHOS
Loop	128533	196385	2492.5	2626.9	MMHOS
Sonde Error			-7.6	-2.3	MMHOS
Cond			5030.3	5008.4	MMHOS

Deep

	Measured		Calibrated		Units
	R	X	R	X	
Air	130070	130211	0.2	-0.6	MMHOS
Zero	131067	131075	17.0	9.4	MMHOS
Reference	237116	238580	2017.0	2009.4	MMHOS
Loop	128063	208111	1411.5	1486.5	MMHOS
Sonde Error			-8.6	-4.2	MMHOS
Cond			2017.0	2009.4	MMHOS

Temperature

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

Performed : 24-Mar-2015 Time : 10:34
 Sensor Suite : SFL ID : PIT-CA-077

Internal

	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
Im	32799.2	48936.6	0.0	7028.0	uA
Ib	32772.8	49385.3	0.0	1750.0	mA
MOM1	32803.0	57404.7	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

Performed : 24-Mar-2015 Time : 10:32
 Sensor Suite : P-SP ID : PIT-CA-077

Internal

	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
	32767.0	58956.3	0.0	1000.0	mV



Company: TRIPLE CROWN OPERATING LLC.
 Well: FLAX #A1-24
 Location: 330' FSL & 330' FEL
 Logged: 03-31-2015
 K.B. Elev: 2526.0 Ft