



Tucker

ENERGY SERVICES

COMPOSITE LOG

Company CYCLONE PETROLEUM, INC. Well NEUWAY 14-3 Field BURTON NORTHEAST County HARVEY State KANSAS Country USA API No. 15-079-20701-0000		File No : TUL-56082 Company : CYCLONE PETROLEUM, INC. Well : NEUWAY 14-3 Field : BURTON NORTHEAST County : HARVEY State : KANSAS Country : USA API No : 15-079-20701-0000	
Location : 2250' FNL & 1308' FEL NW SW SE NE		LSD :	Sect : 14 Twp : 23 S Rge : 03 W
Permanent Datum:	GL	Elevations:	Services:
Drilling Measured From:	KB	KB 1456.00	CNT
Log Measured From:	KB	DF 1455.00	LDT
Above Permanent Datum:	8.00 Ft	GL 1448.00	XYT
Date	10-14-2013		
Run Number	1		
Depth--Driller	3390.0	Ft	
Depth--Logger	3393.0	Ft	
First Reading	3392.0	Ft	
Last Reading	308.0	Ft	
Casing--Driller	306.0	Ft	
Casing--Logger	308.0	Ft	
Bit Size	7.875	In	
Casing Size	8.625	In	
Hole Fluid Type	GEL / CHEMICAL		
Density	9.2 LBS/GAL		
Fluid Loss	6.8		
PH/Viscosity	10.0	68.0 SEC	
Sample Source	MEASURED		
RMF@Measured Temp.	1.700	@ 78 F	
RMF@Measured Temp	1.496	@ 78 F	
RMF@Measured Temp.	2.057	@ 78 F	
Source RMF/RMC	CALCULATED/CALCULATED		
RM@BHT	1.244	@ 109 F	
Time Circulation Stopped	10-14-2013 07:57		
Max Recorded Temp.	109	F	
Equipment/Base	TRUCK 126		
Recorded By	R. KING		
Witnessed By	J. BURK / E. FELTS		

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	3390.00	8.625	24.00	306.00	0.00

Run Number	1	
Date	10-14-2013	
Date/Time On Bottom	10-14-2013 08:15	
Depth to Fluid	0.0 Ft	
Salinity	900.000	
RMF@BHT	1.095 @ 109 F	
RMC@BHT	1.506 @ 109 F	

Run Number 1

Comments

ALL PRESENTATIONS AS PER CUSTOMER REQUEST.
 GRT, CNT, LDT, MST AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON X-Y AXIS.
 2.71 G/CC USED TO CALCULATE POROSITY.
 ANNULAR HOLE VOLUME CALCULATED USING 4.5" PRODUCTION CASING.
 DETAIL LOGGED FROM TD-2400', AS CLIENT REQUESTED.
 XYT LOGGED FROM TD-2400', AS CLIENT REQUESTED.

RIG; FOSSIL DRILLING RIG #2

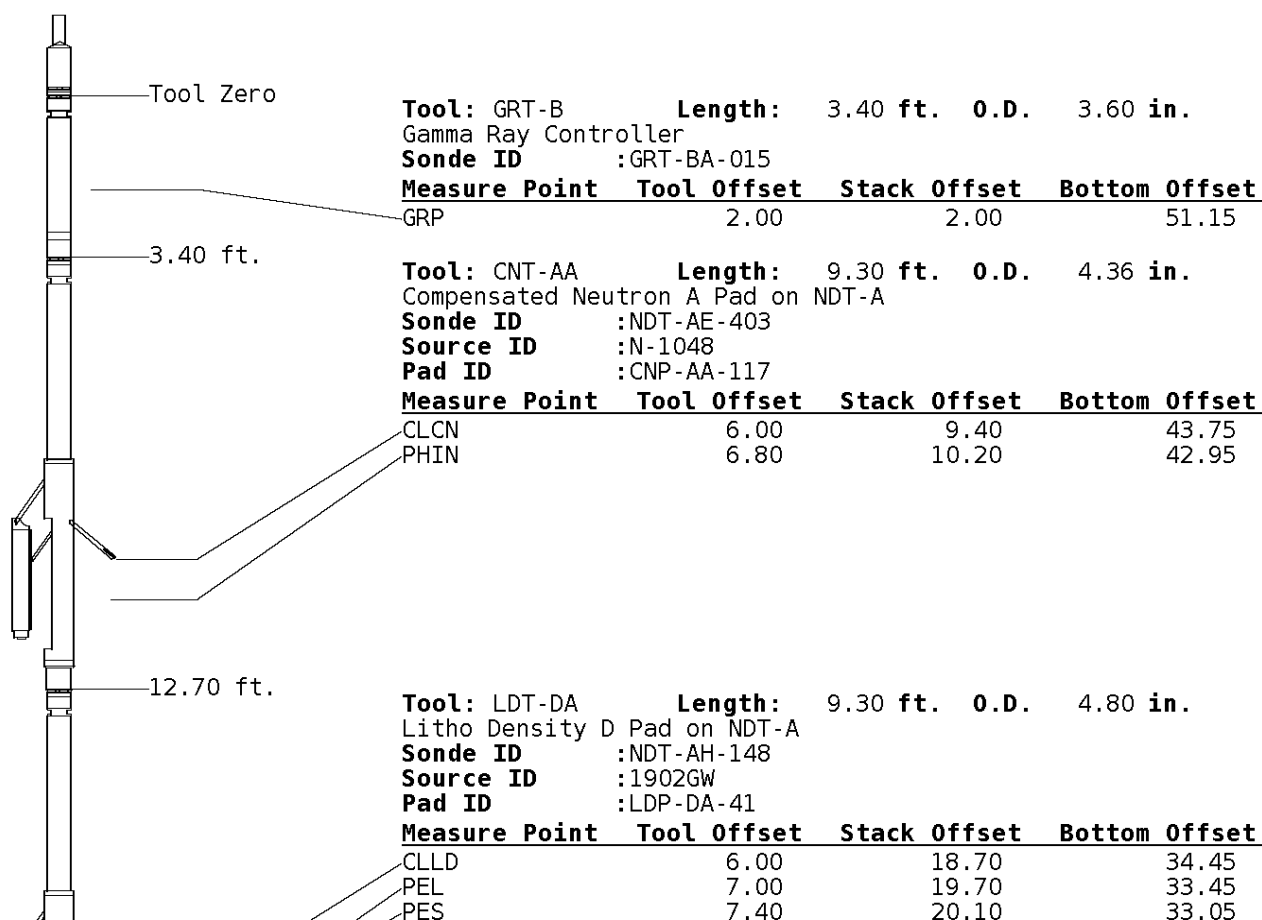
GRT: GRP
 CNT: PHIN, CLCNIN
 LDT: PORL, LCORN, LDENN, PECLN, CLLDIN
 MST: MSCLPIN, INV_RF, NOR_RF
 PIT: ILD, ILM, SFLAEC, SPU, CIRD

OPERATORS:

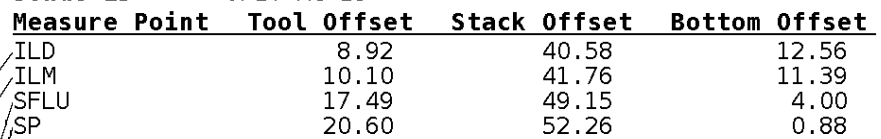
A. DJAHO
 D. HOPPER

Tool String Schematic

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



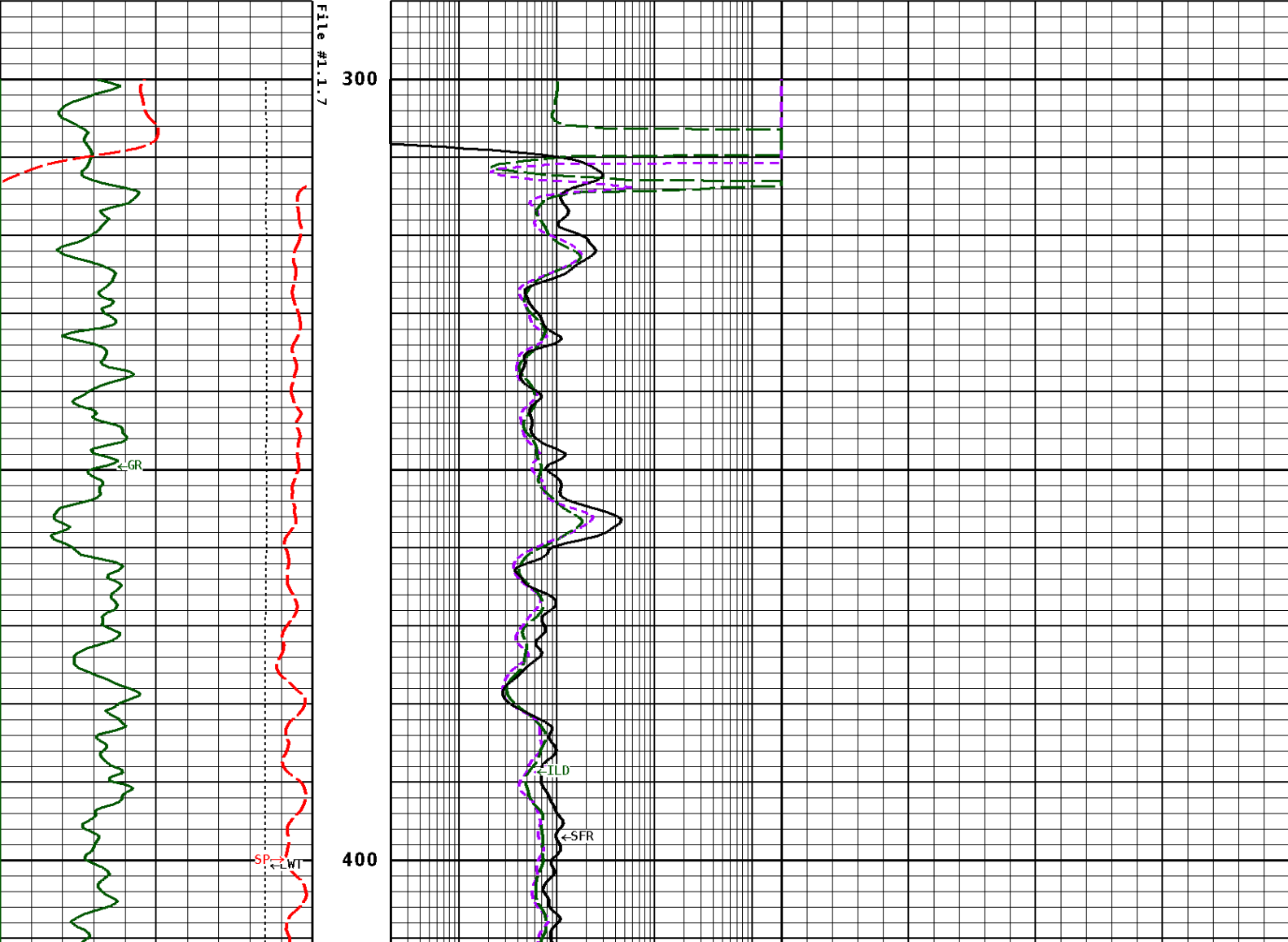
33.25
33.25

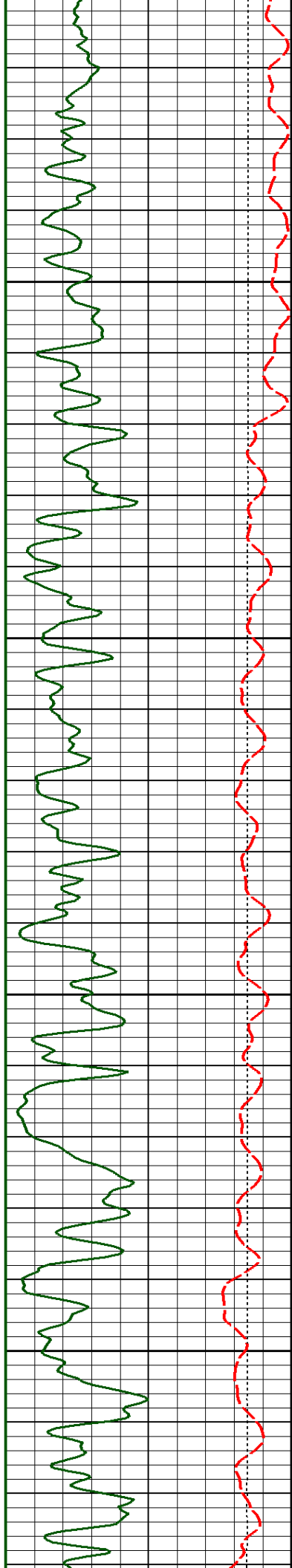


NORMAL
OHMM

6	16			0	20
NEUTRON (Y) CALIPER INCHES (IN)				INVERSE OHMM	
16	26			0	20
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 BARNs/ELECTRON	
10000	0		0.22000.0	0	20
SPONTANEOUS POTENTIAL mV		Volume Dolo/Shale	DEEP INDUCTION OHMM	DENSITY POROSITY (2.71g/cc) PERCENT	
→ ←30			0.22000.0	7030	30
				-10	-10
GAMMA RAY API UNITS		BHV AHV CU.FT	MEDIUM INDUCTION OHMM	NEUTRON POROSITY (LIMESTONE) PERCENT	
150	300		0.22000.0	30	-10
0	150				

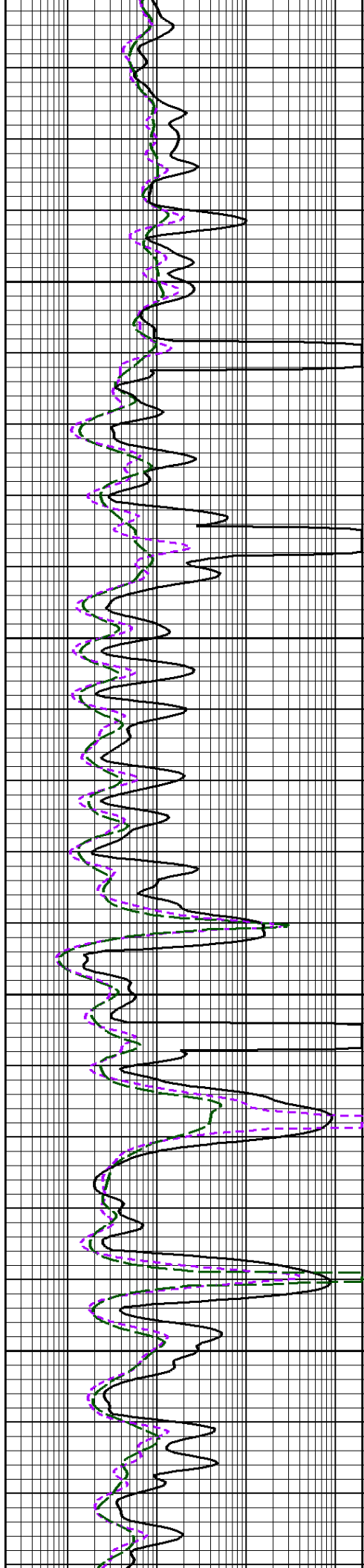
1:240 MAIN SECTION

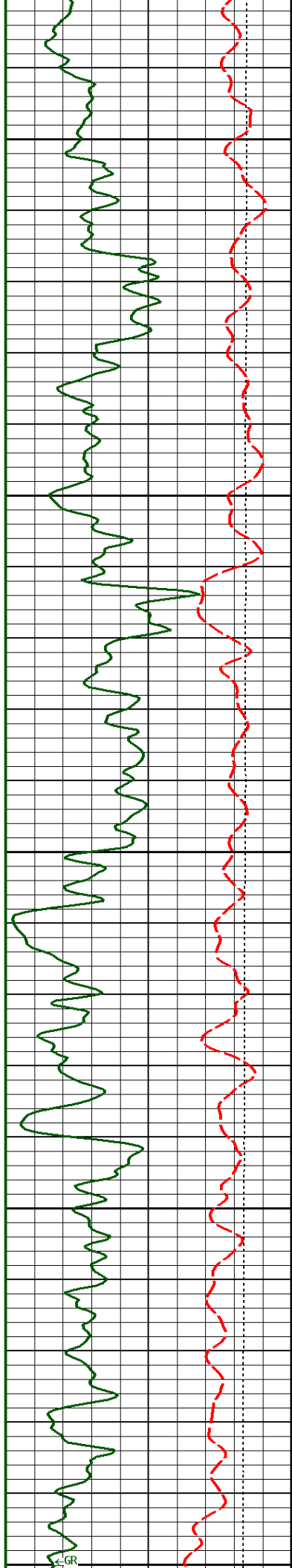




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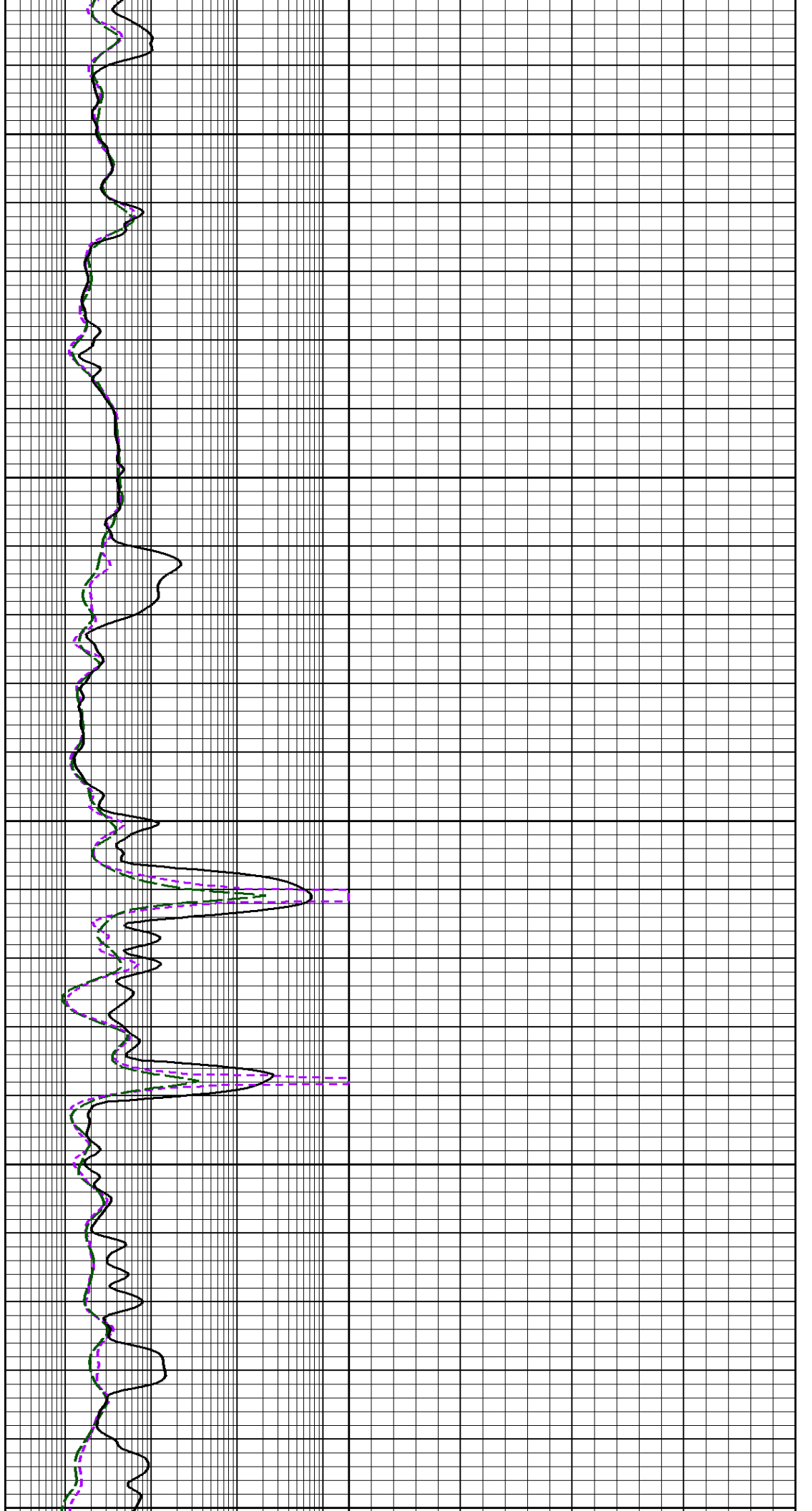
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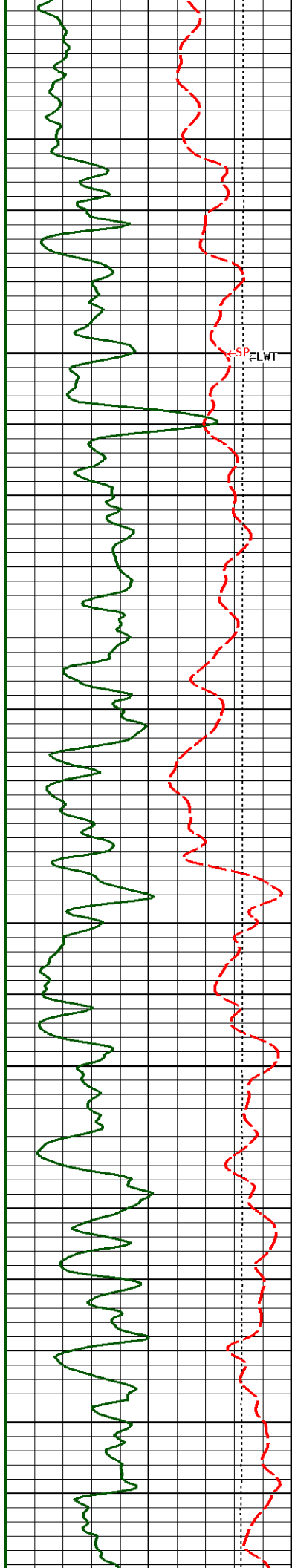




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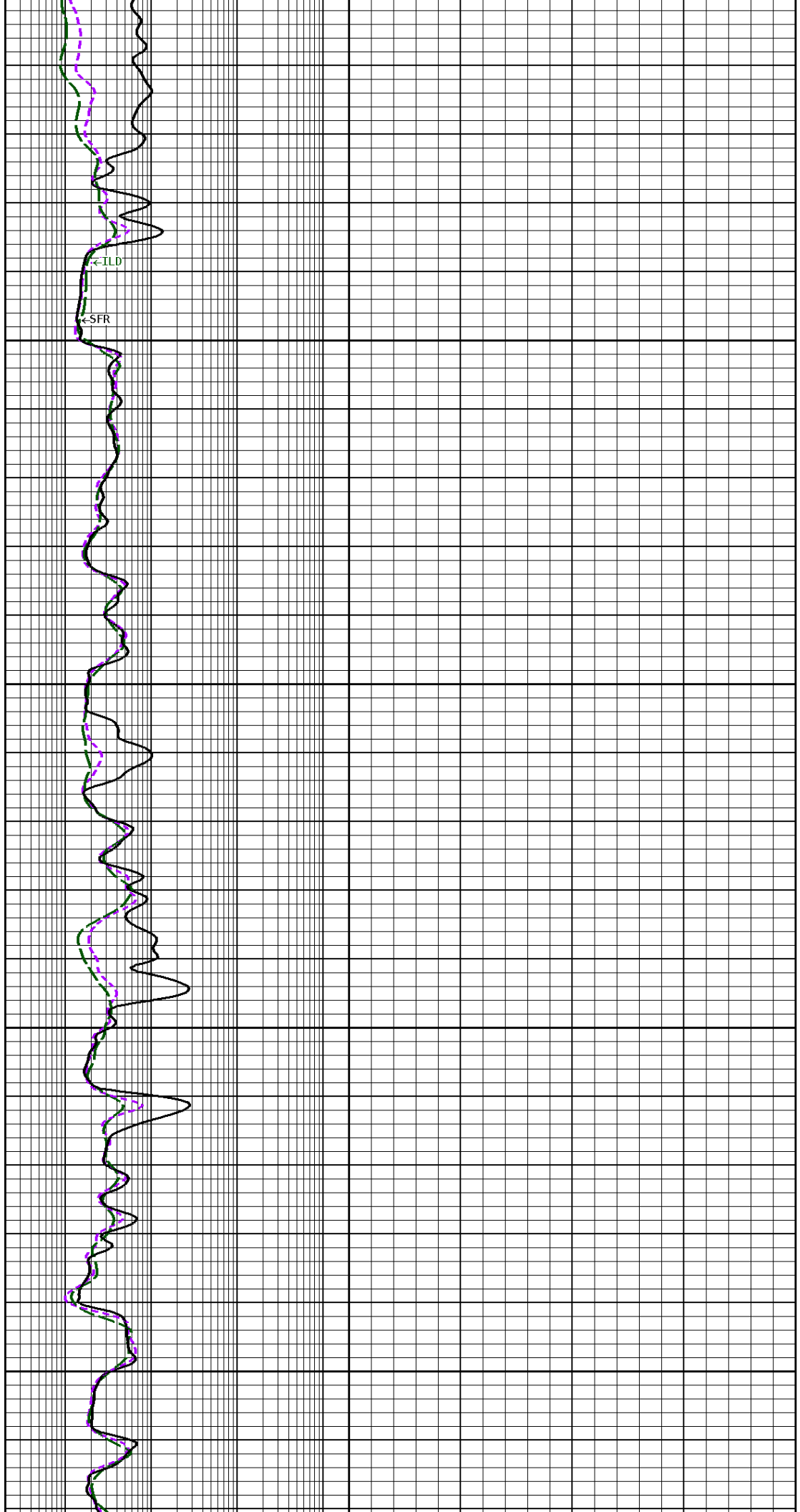
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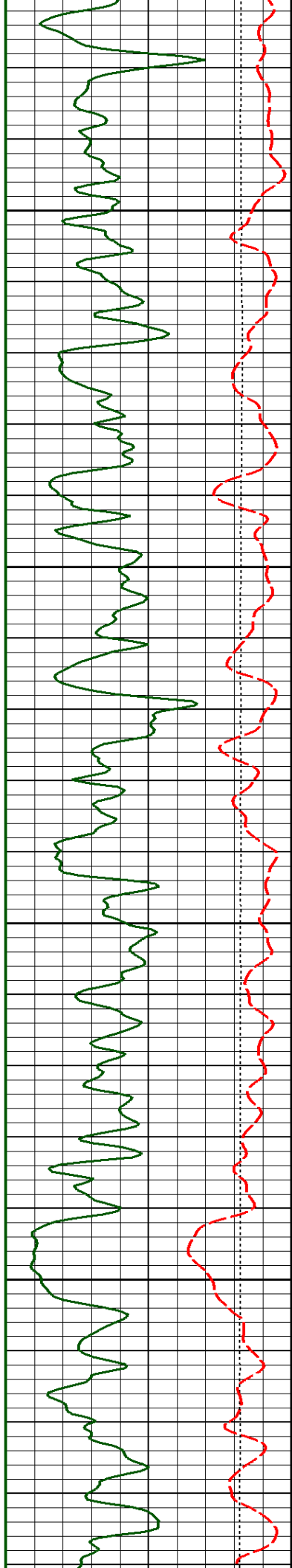




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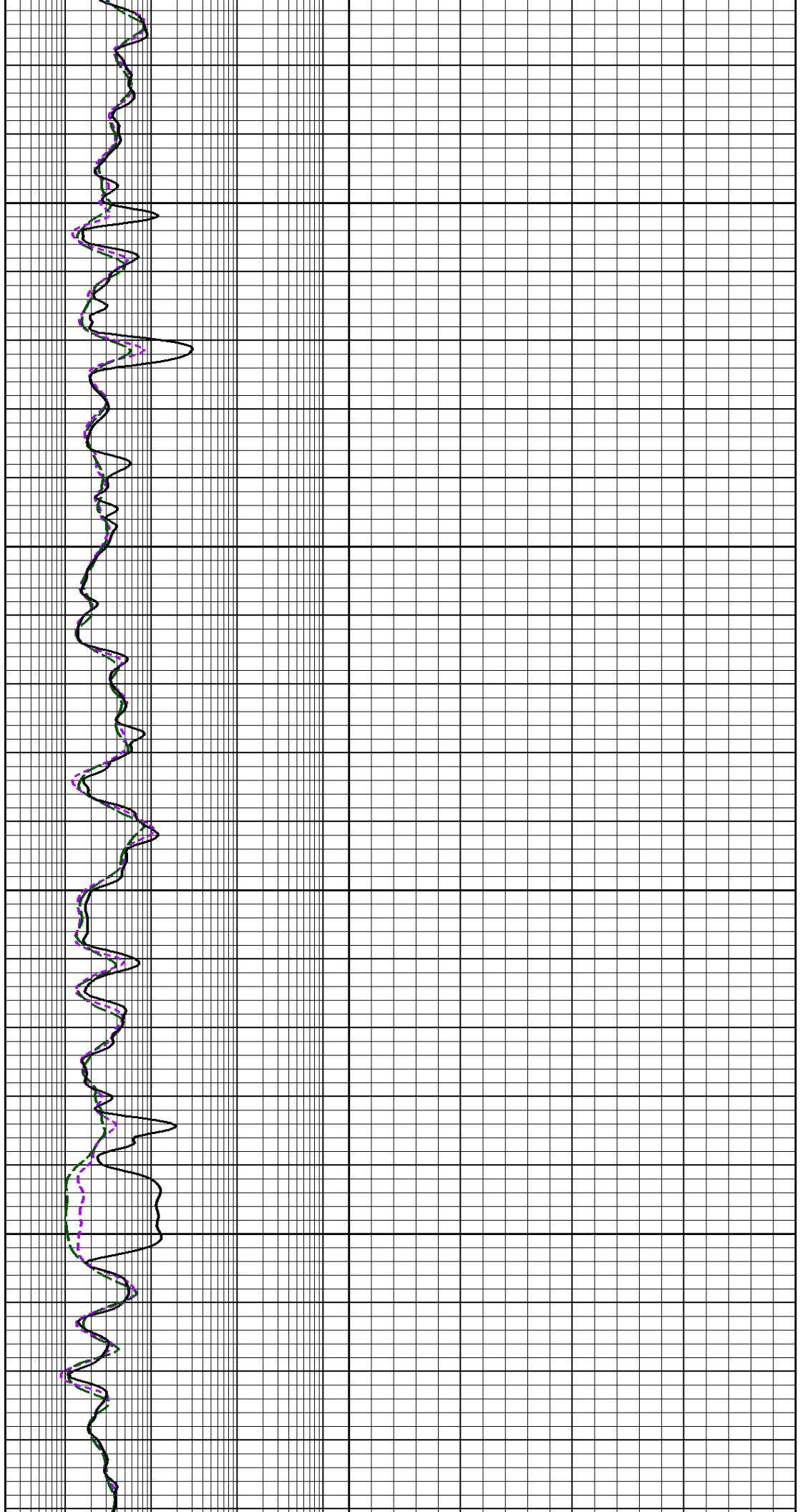
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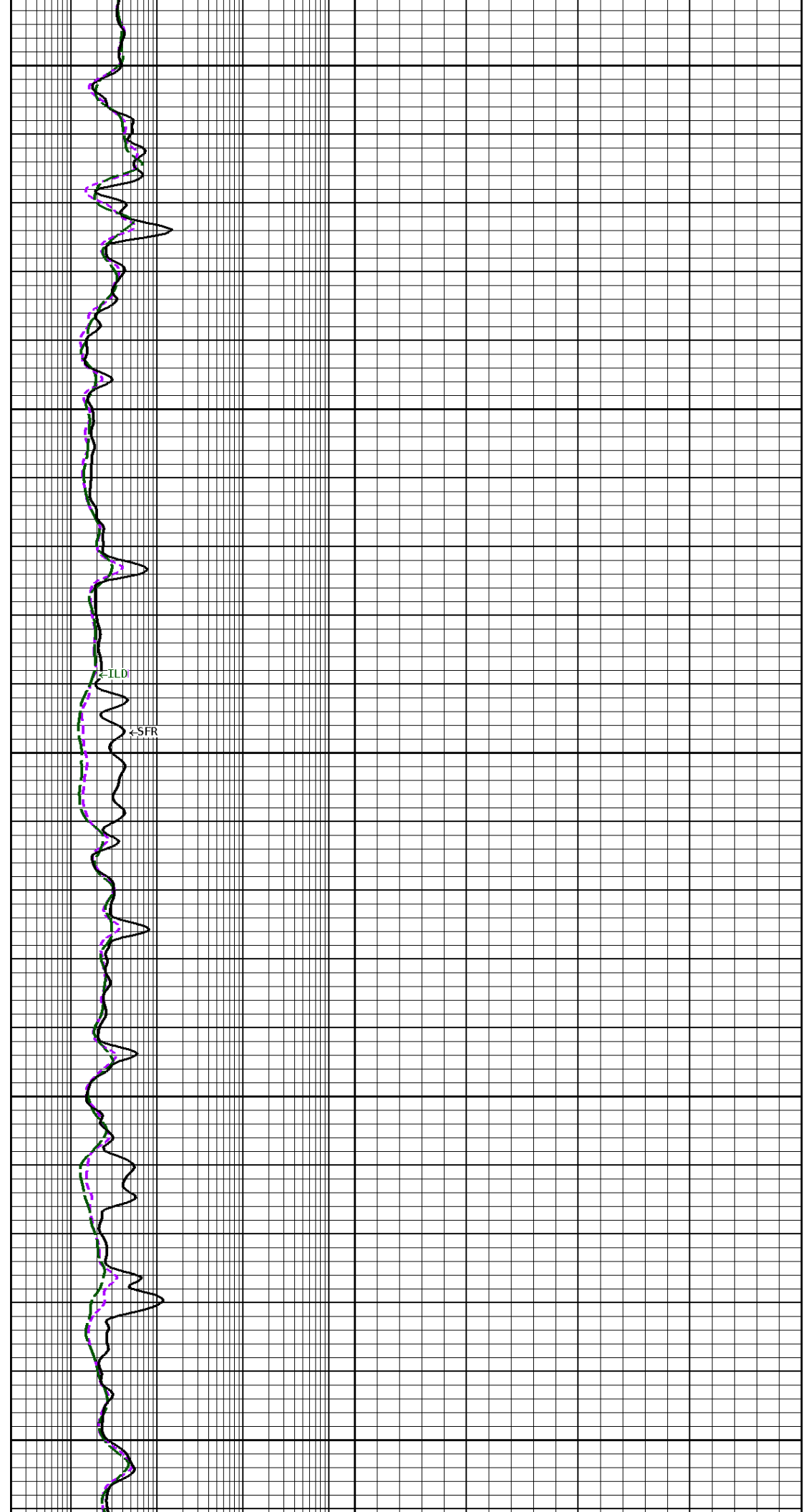
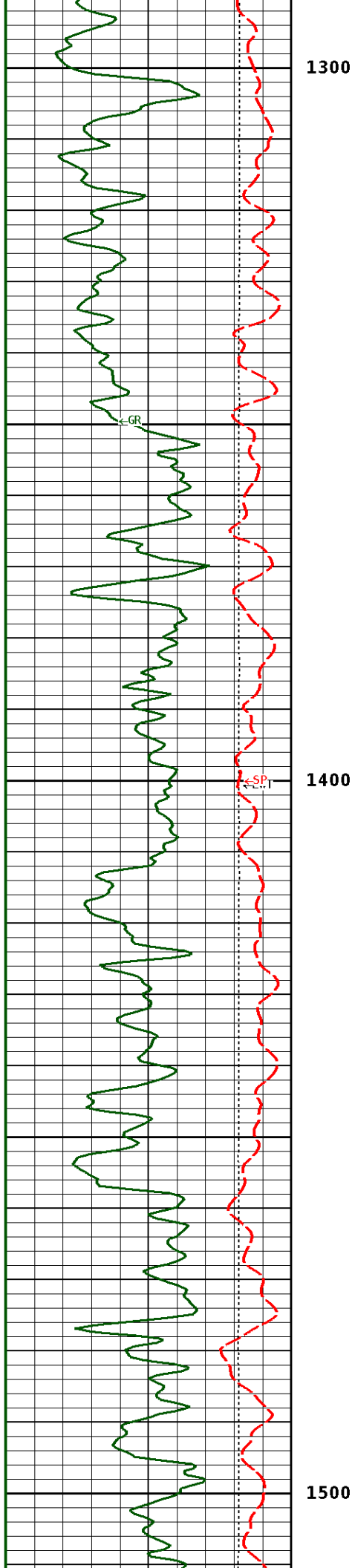


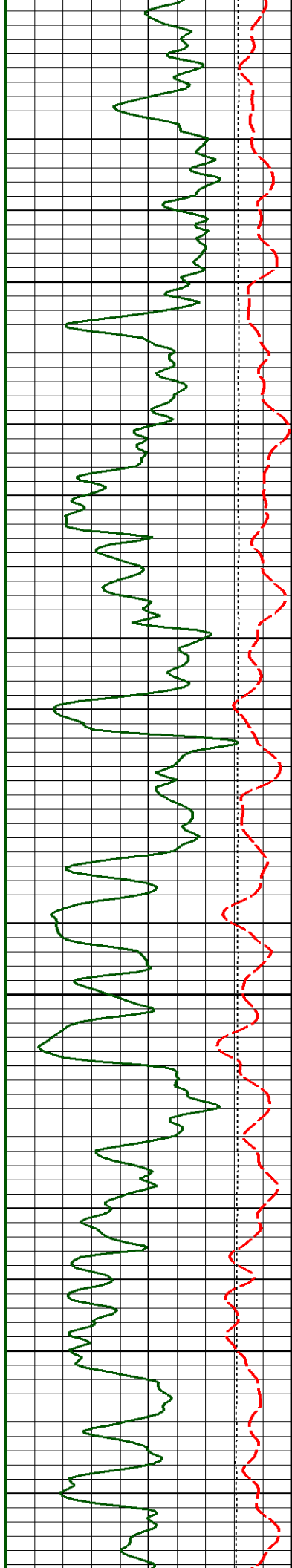


1100

1200

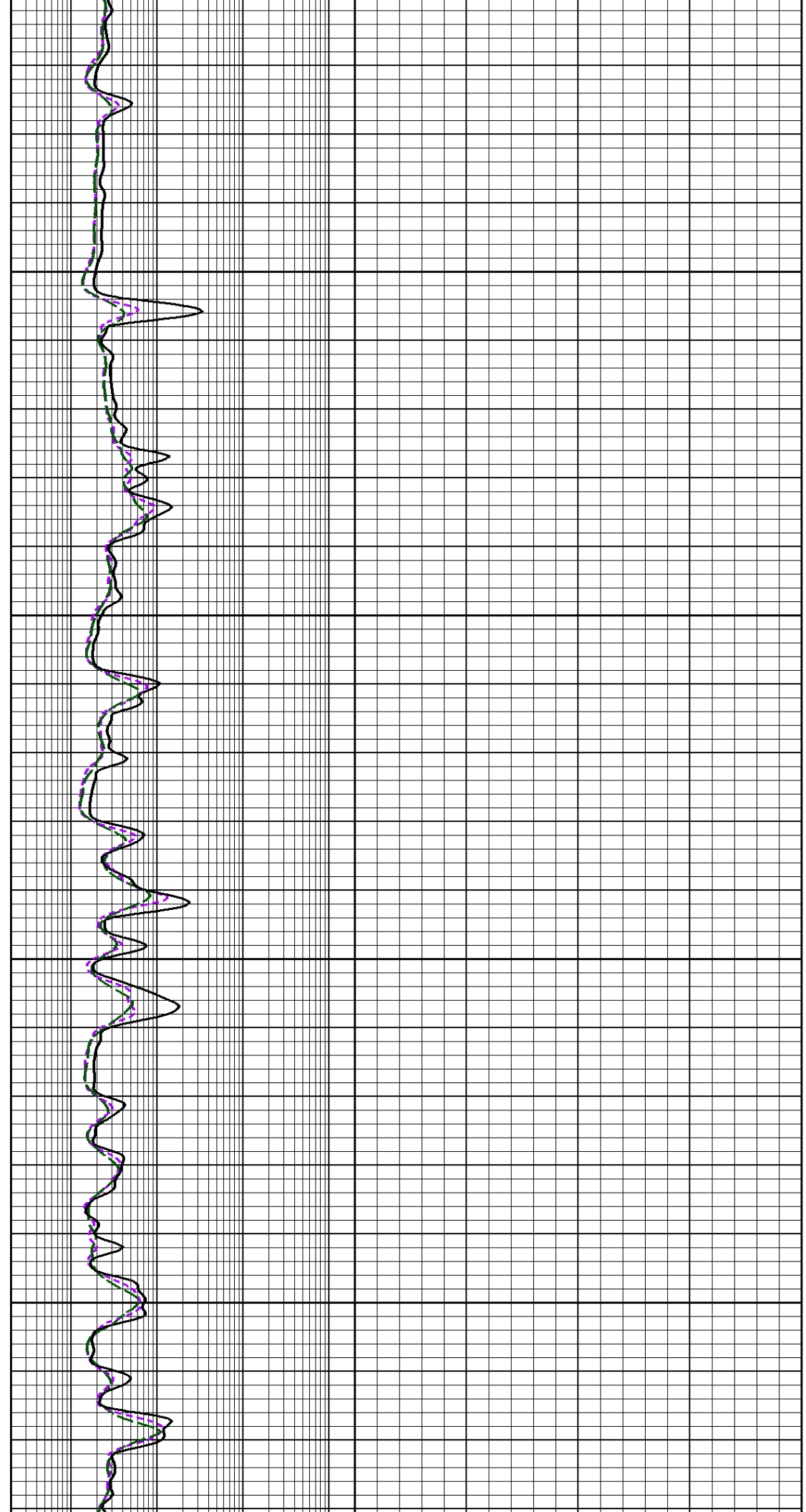


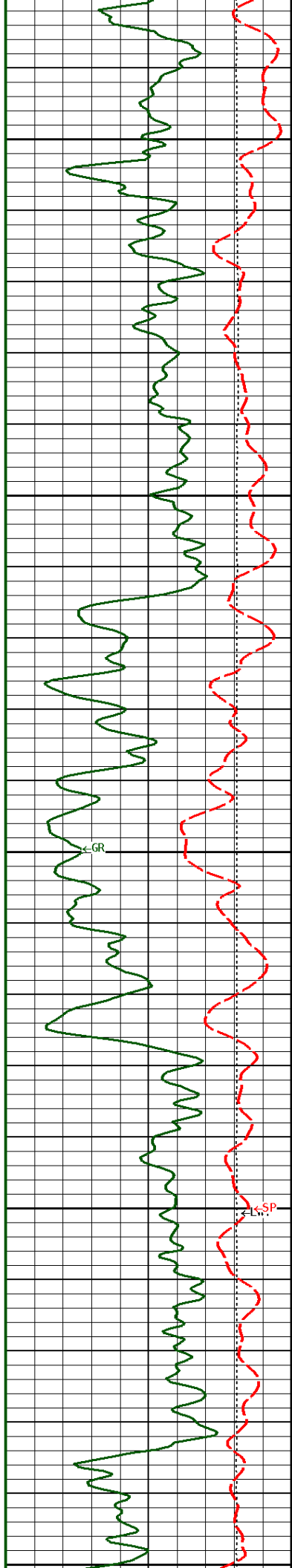




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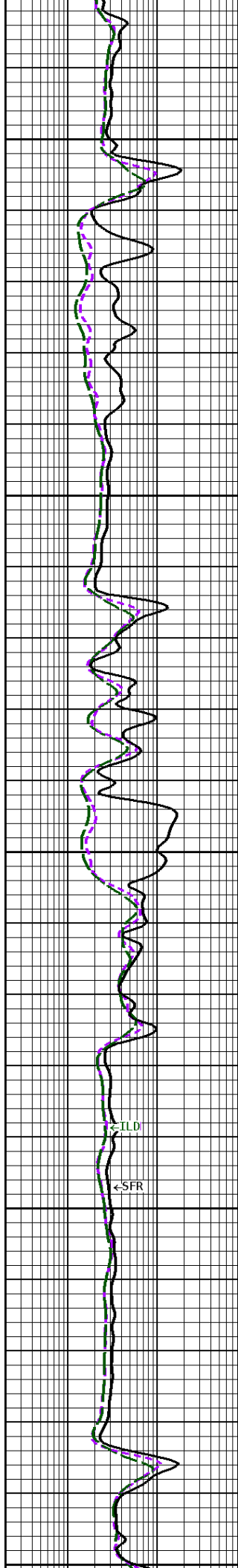
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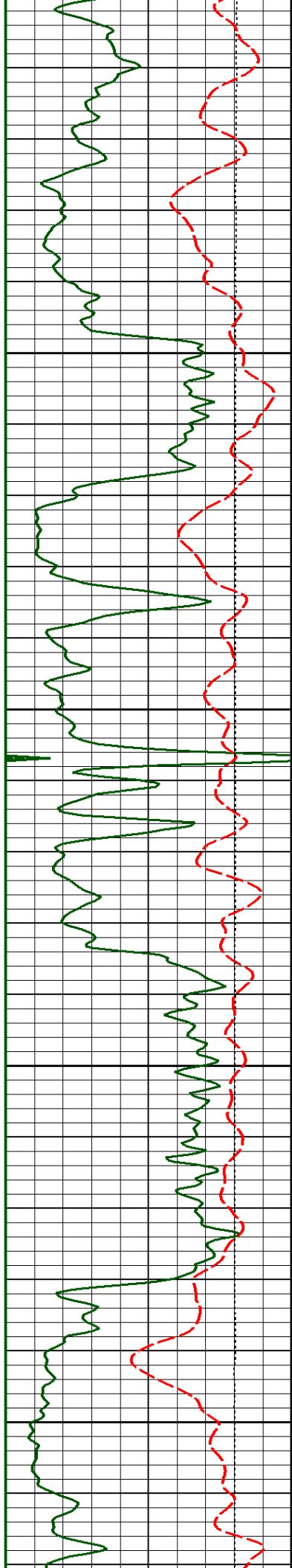
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1900



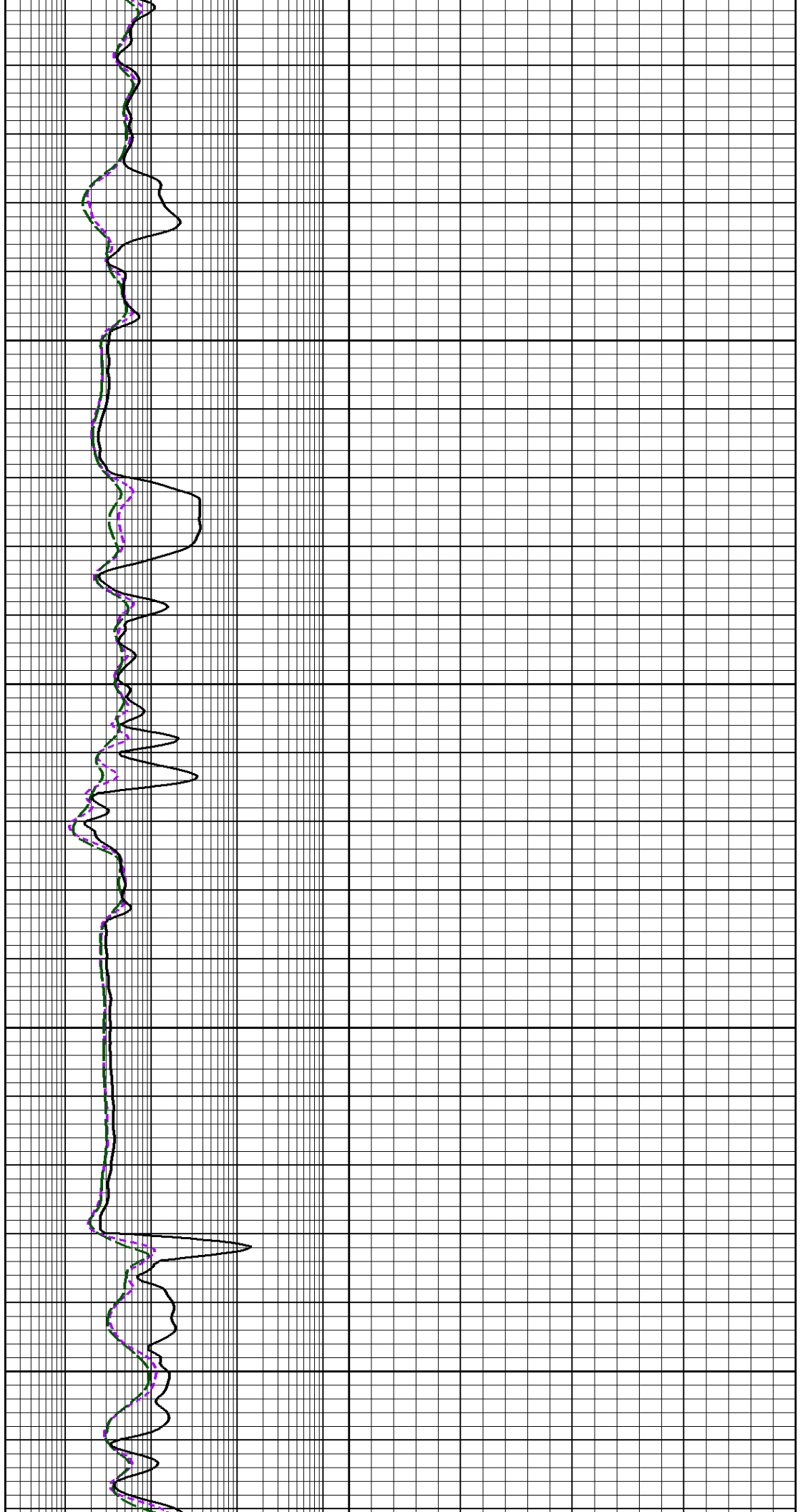
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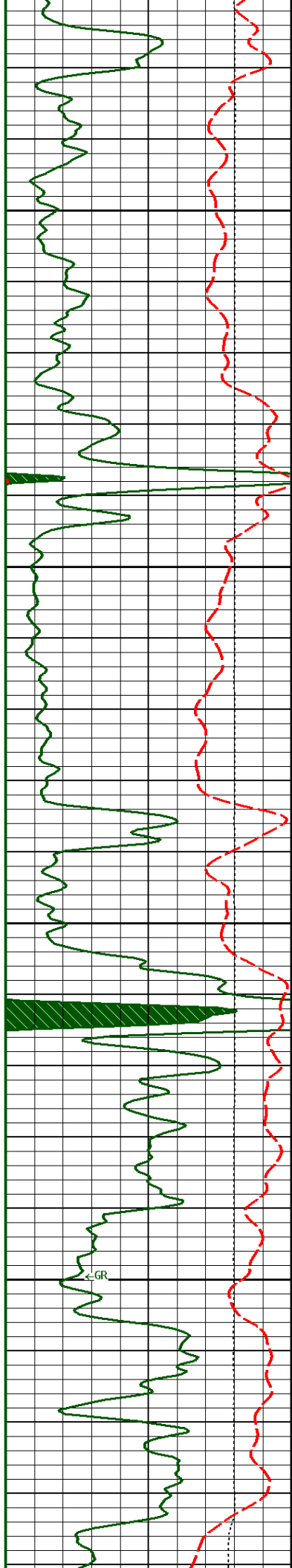
←SFR



2000

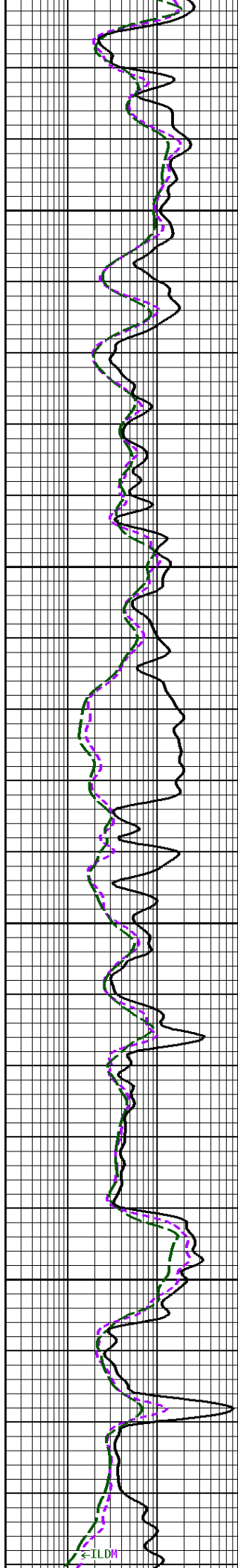
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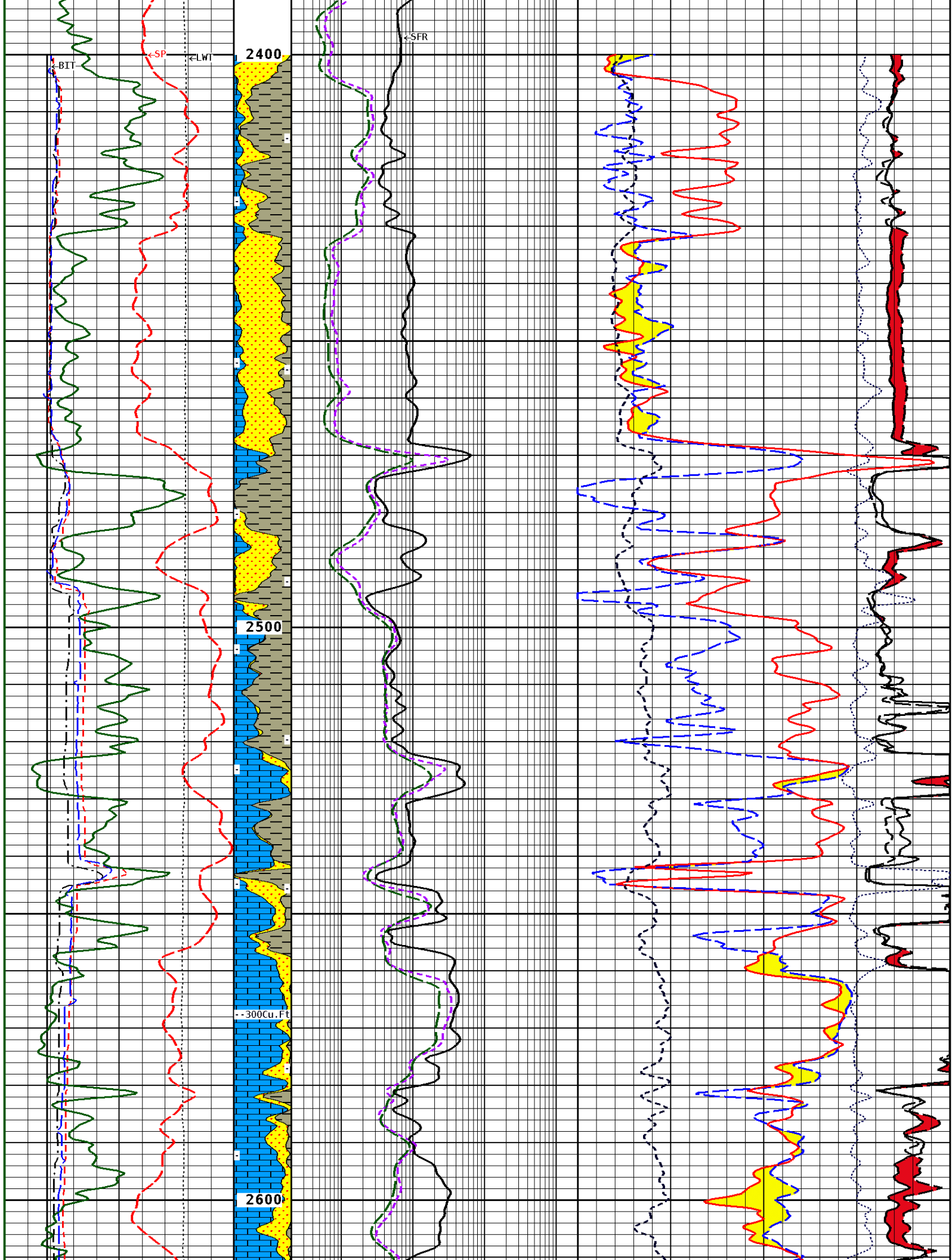


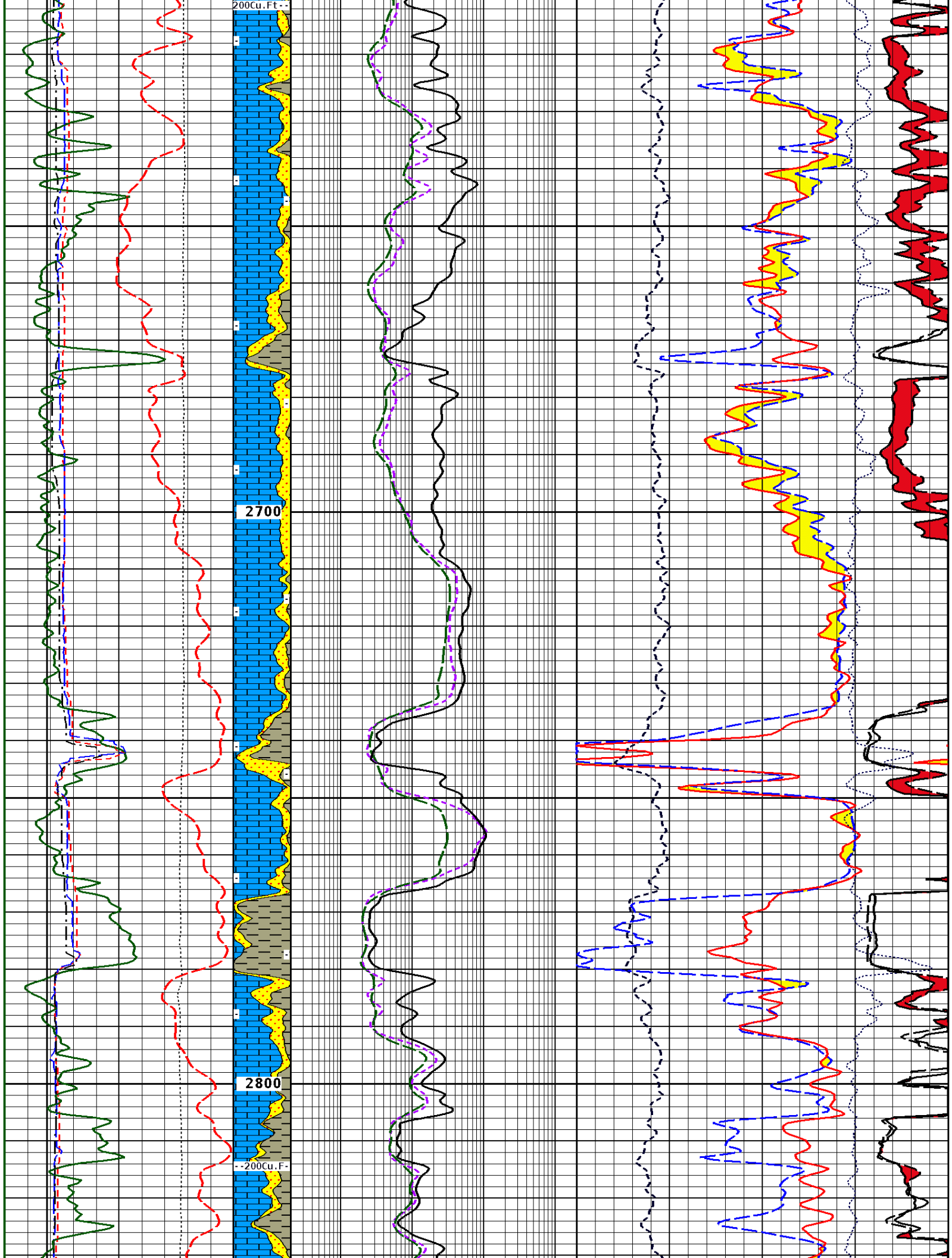


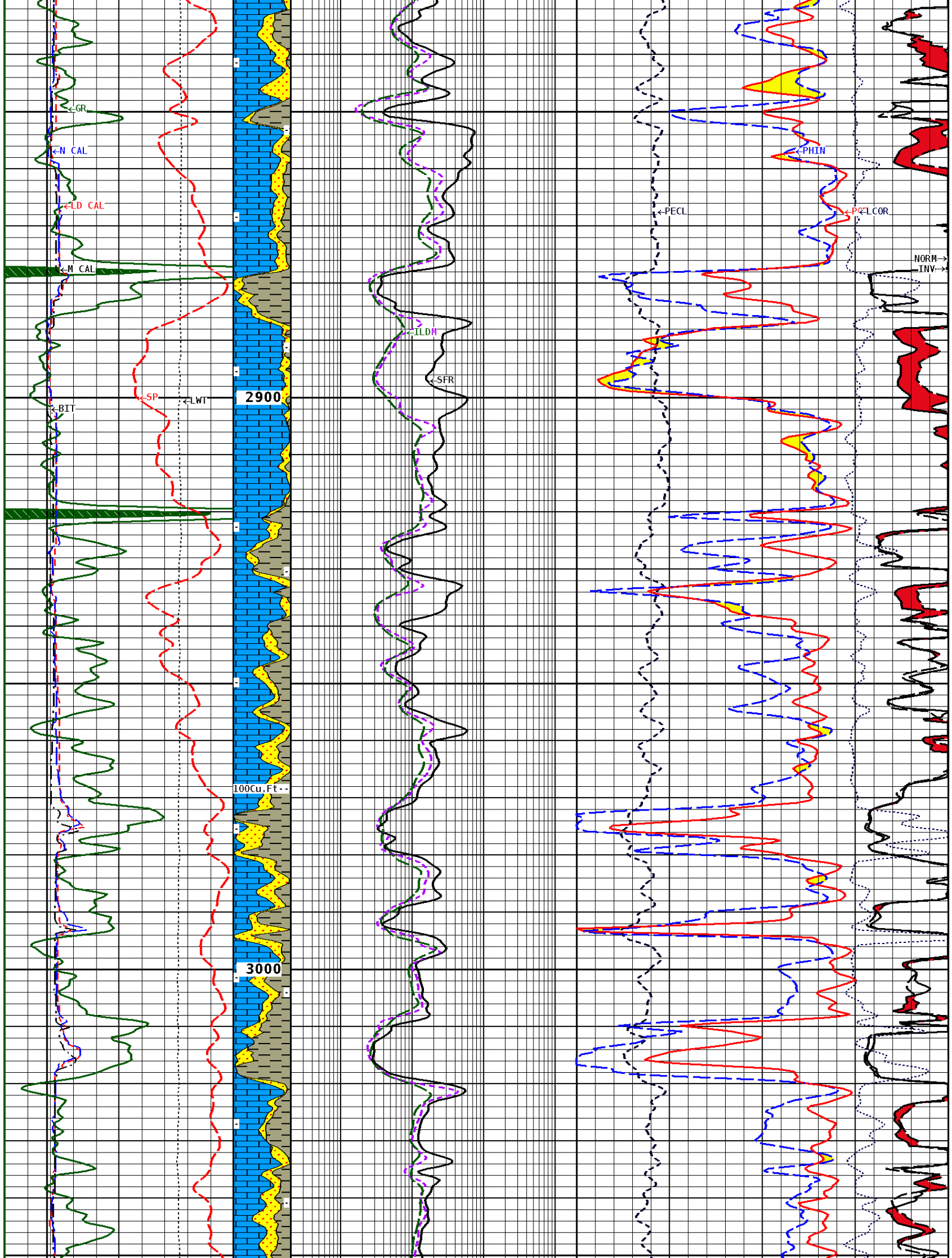
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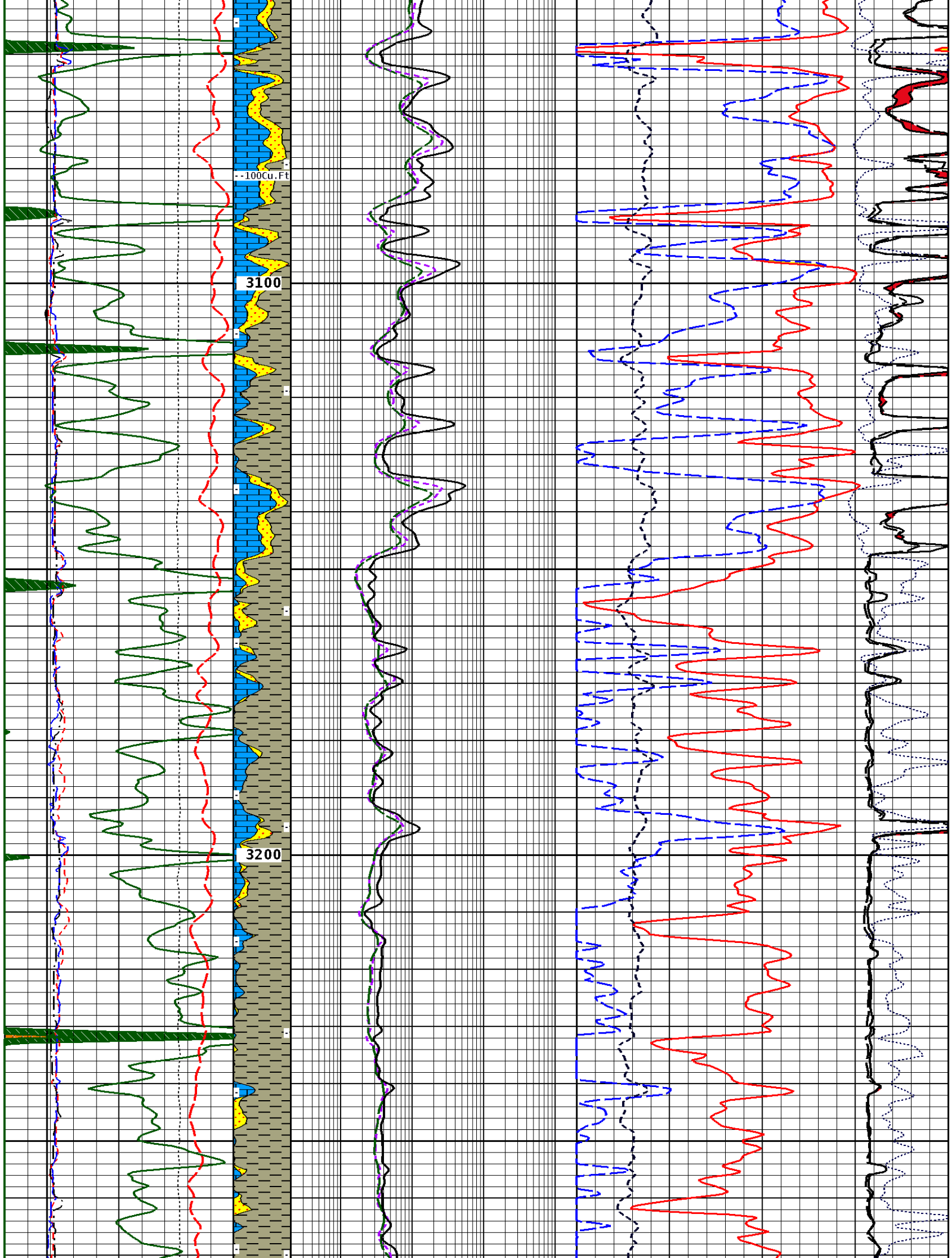
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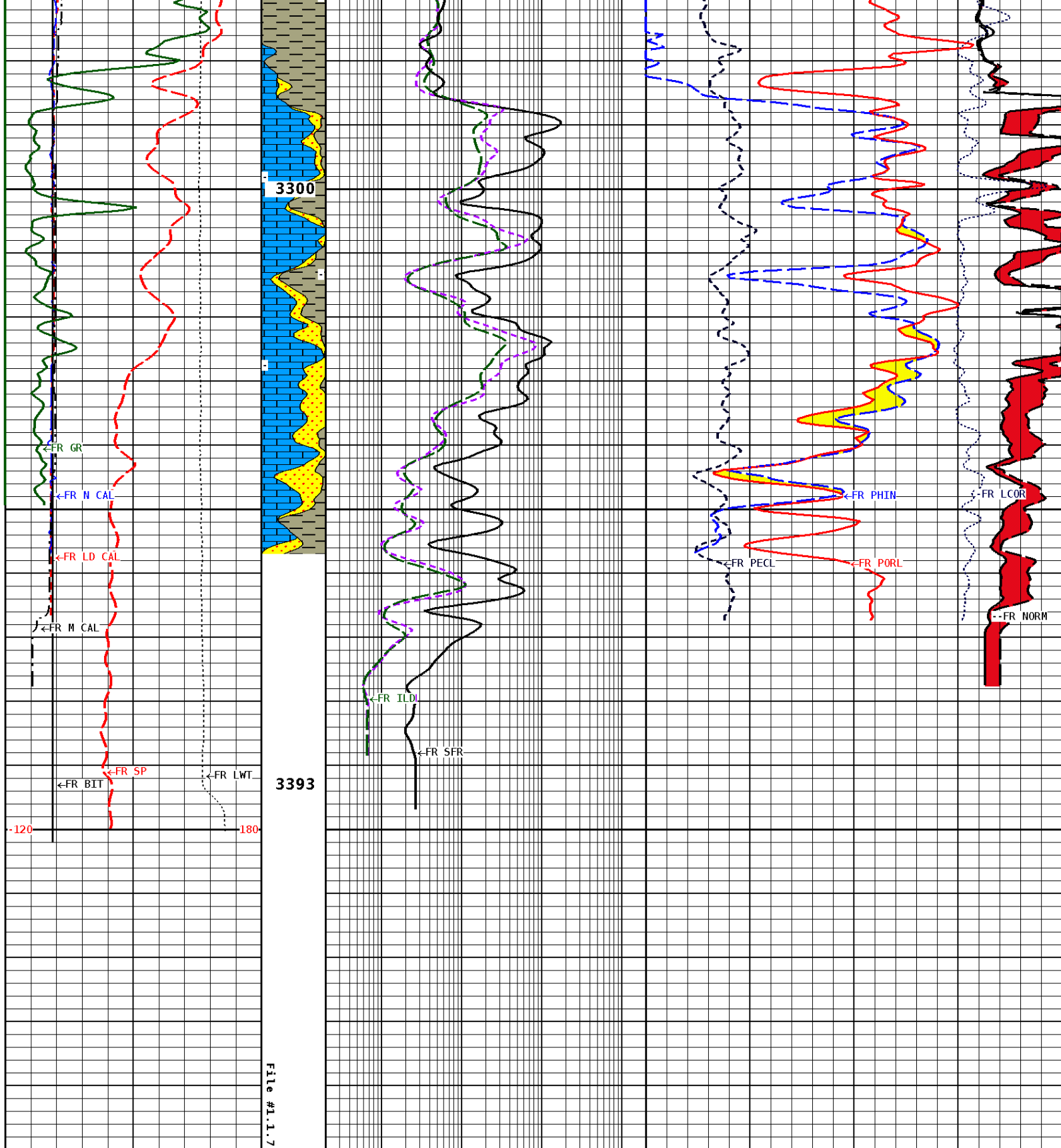












GAMMA RAY API UNITS 150 0 300 150	BHV AHV CU.FT	MEDIUM INDUCTION OHMM 0.2 2000.0 30	NEUTRON POROSITY (LIMESTONE) PERCENT 30 -10
SPONTANEOUS POTENTIAL mV 150 180	Volume Dolo/Shale	DEEP INDUCTION OHMM 0.2 2000.0	DENSITY POROSITY (2.71g/cc) PERCENT 70 30

		0.2	2000.0	30	-10	-50
TENSION LBS		Volume Calcite	SHALLOW FOCUSED RESISTIVITY OHMM		PE CROSS-SECTION BARNs/ELECTRON	
100000			0.2	2000.0	0	20
DENSITY (X) CALIPER INCHES (IN)		Volume Quartz			DENSITY CORRECTION G/CC	
166					-0.750.25	
NEUTRON (Y) CALIPER INCHES (IN)						INVERSE OHMM
166						020
BIT SIZE INCHES (IN)						NORMAL OHMM
6						020
CALIPER MICRO INCHES (IN)						
166						

* 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	4.500	in	
Casing Thickness	0.250	in	
Casing Correction (PHI N)	Disable		
Hole Substance	Fluid		
BHT Depth	3393.000	ft	
Borehole Temperature	109.0	degF	
Temperature Gradient	1.00	DFHF	
Resistivity Of Mud	1.700	ohm/m	
MSTNG Normal Correction	0.00	ohm/m	
MSTNG Inverse Correction	1.50	ohm/m	

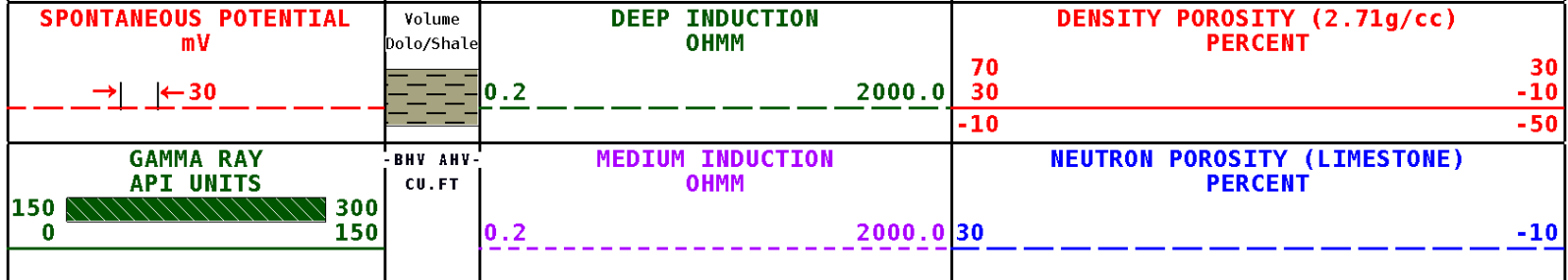
Well File: CYCLONE NEUWAY14-3 OCT14-MSTK	Scale: 1:240	Format: COMSAT
Segment: V1.D1.S8 REPEAT-RP0	Acquired: 2013-10/14 08:15 3.3.0-12292	
Reference: 0	Processed: 2013-10/14 10:08 3.3.0-12292	

CALIPER MICRO INCHES (IN)							
16	26						
6	16						

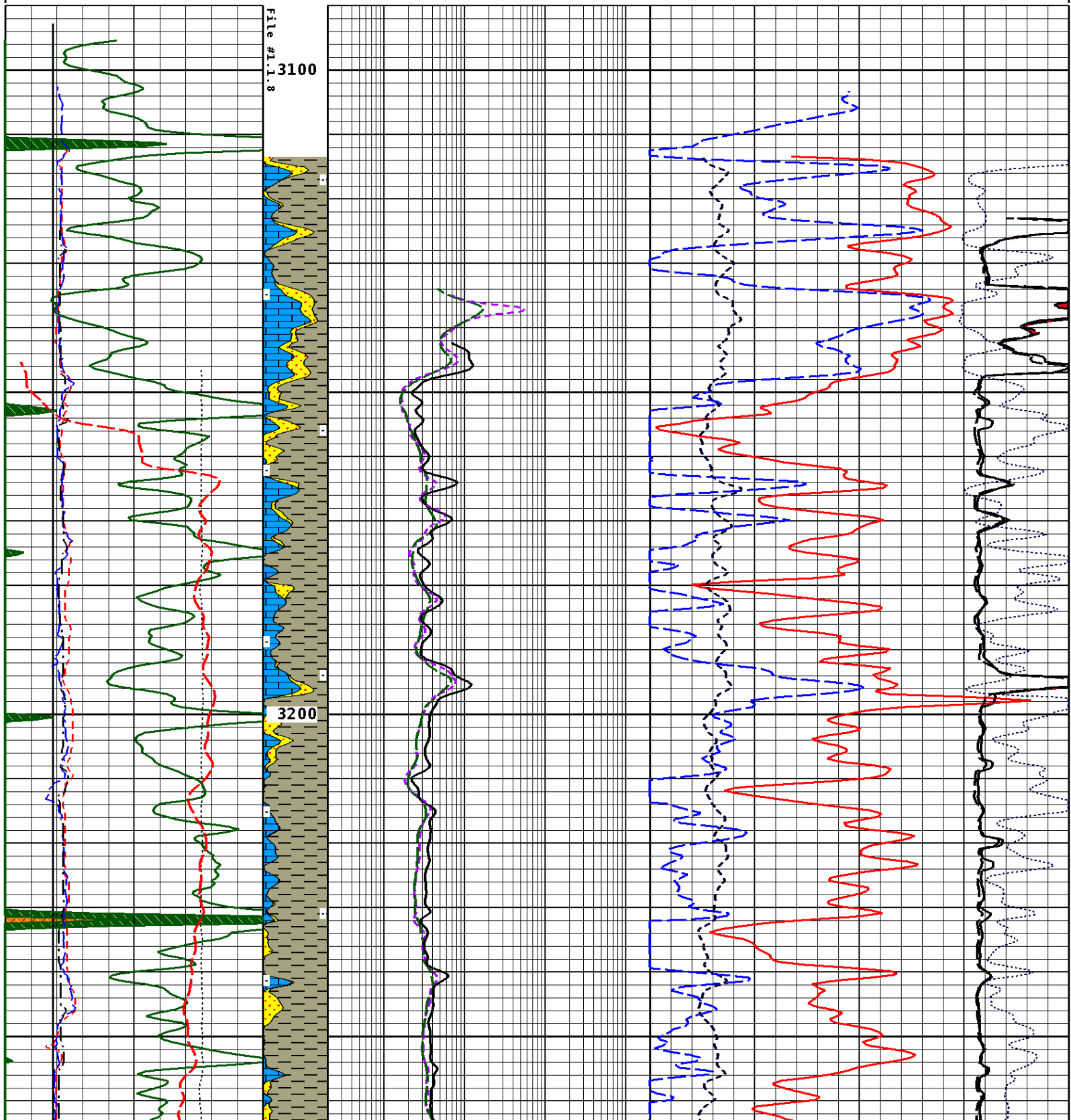
BIT SIZE INCHES (IN)						NORMAL OHMM	
6	16					0 20	

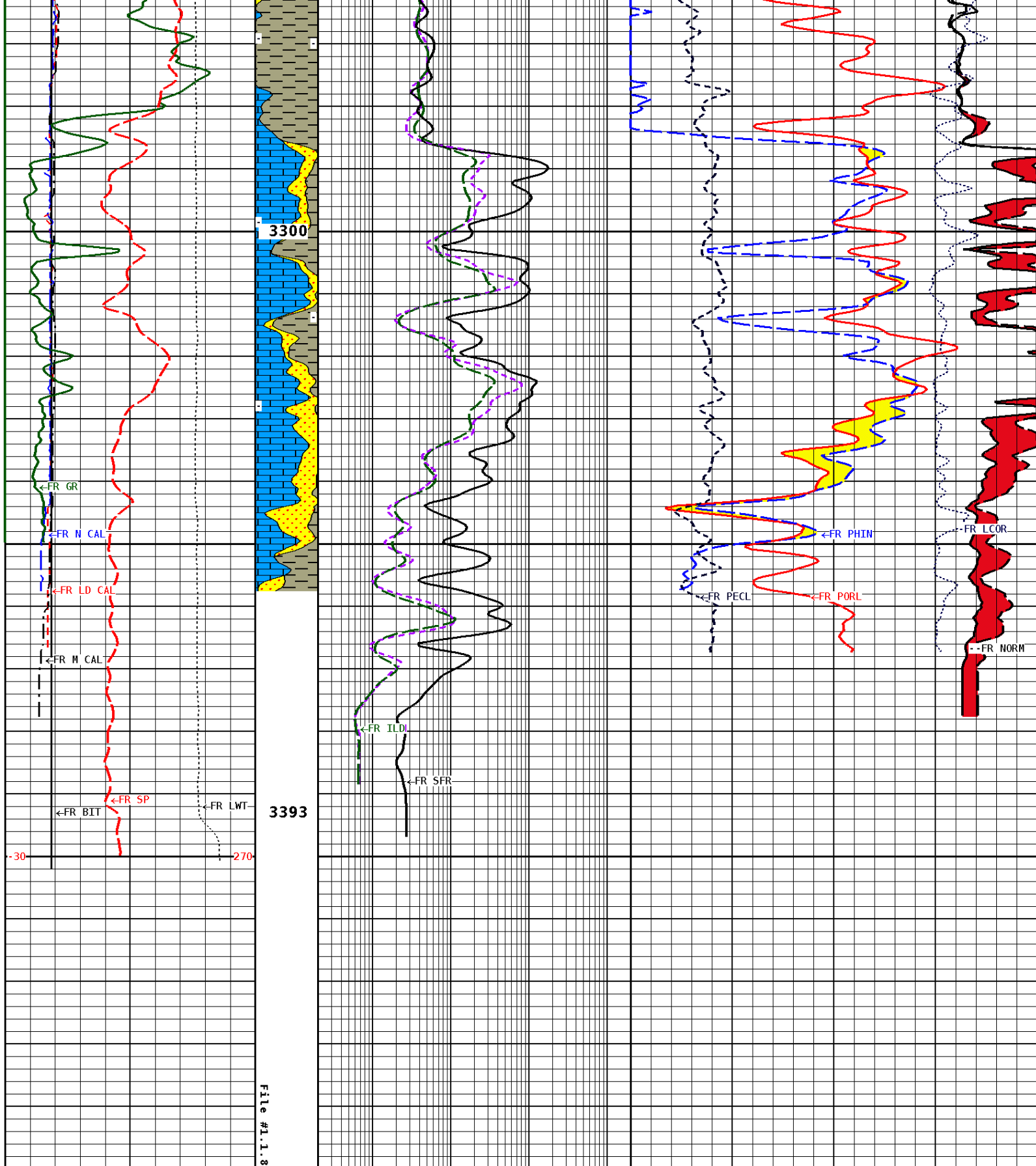
NEUTRON (Y) CALIPER INCHES (IN)						INVERSE OHMM	
16	26					0 20	
6	16					-----	

DENSITY (X) CALIPER INCHES (IN)		Volume Quartz	DENSITY CORRECTION G/CC				
16	26						
6	16		-0.75 0.25				
-----			-----				
TENSION LBS		Volume Calcite	SHALLOW FOCUSED RESISTIVITY OHMM		PE CROSS-SECTION BARNs/ELECTRON		
10000	0		0.2	2000.0	0	20	
-----					-----		



1:240 REPEAT SECTION





1:240 REPEAT 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	x 1	DEEP INDUCTION	DENSITY POROSITY (2.71g/cc)

SPONTANEOUS POTENTIAL mV	Dolo/Shale	DEEP INDUCTION OHMM	DENSITY POROSITY (2.71g/cc) PERCENT
→ ← 30		0.2 2000.0	70 30 -10 -50
TENSION LBS	Volume Calcite	SHALLOW FOCUSED RESISTIVITY OHMM	PE CROSS-SECTION BARNs/ELECTRON
10000 0		0.2 2000.0 0	20
DENSITY (X) CALIPER INCHES (IN)	Volume Quartz		DENSITY CORRECTION G/CC
16 26 6 16			-0.75 0.25
NEUTRON (Y) CALIPER INCHES (IN)			INVERSE OHMM
16 26 6 16			0 20
BIT SIZE INCHES (IN)			NORMAL OHMM
6 16			0 20
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	4.500	in
Casing Thickness	0.250	in
Casing Correction (PHI N)	Disable	
Hole Substance	Fluid	
BHT Depth	3393.000	ft
Borehole Temperature	109.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	1.700	ohm/m
MSTNG Normal Correction	0.00	ohm/m
MSTNG Inverse Correction	1.50	ohm/m

*** Calibration Summary ***

Shop Calibration GRT-B					
Performed : 29-APR-2010			Time : 15:43		
Sensor Suite : GR-GR5			ID : GRT-BA-015		
	Measured	Units	Calibrated	Units	
GR	Background Jig		Jig		
	54 409	CPS	175	GRAPI	
Shop Calibration CNT-AA					
Performed : 10-OCT-2013			Time : 11:32		
Sensor Suite : CALI-BCN			ID : NDT-AE-403		
	Jig - Measured		Jig - Calibrated	Units	
	Ring#1 Ring#2		Ring#1 Ring#2		
CL # 1	8.2 13.0		6.0 12.0	IN.	
Shop Calibration CNP-AA					
Performed : 24-Sep-2013			Time : 11:48		
Sensor Suite : BHC NEUT			ID : CNP-AA-117		
Source ID : N-1048					
	Tank		Verification	Units	
	Measured Calibrated		Jig		
N/F	3.7384 3.6893		3.6840		
Porosity	21.3 20.5		20.4	%	

Shop Calibration LDT-DA					
Performed : 10-Oct-2013			Time : 11:35		
Sensor Suite : CALI-LTH			ID : NDT-AH-148		
CL # 1	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
	7.9	12.1	6.0	12.0	IN.
Performed : 24-Sep-2013			Time : 12:49		
Sensor Suite : BHCPELNG			ID : LDP-DA-41		
Source ID : 1902GW					
Short Space					
	BKGD	Al	Mg	Al+Fe	Units
LSW1	70	967	1571	632	CPS
LSW2	74	1160	1864	827	CPS
LSW3	278	2734	4407	2335	CPS
LSW4	347	2431	3522	2154	CPS
LSW5	32	53	59	51	CPS
LSW6	89	95	94	94	CPS
LSW7	57	63	61	62	CPS
LSW8	2	4	5	4	CPS
QS	0.217	0.201	0.211	0.206	
PES			2.778	5.967	
SSDN		2.600	1.680		G/CC
Long Space					
	BKGD	Al	Mg	Al+Fe	Units
LLW1	104	1081	4424	664	CPS
LLW2	114	2005	8044	1436	CPS
LLW3	430	3838	14617	3311	CPS
LLW4	559	1861	5787	1688	CPS
LLW5	65	74	125	72	CPS
LLW6	178	171	163	174	CPS
LLW7	117	112	107	114	CPS
LLW8	5	8	18	7	CPS
QL	0.208	0.207	0.207	0.211	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC

Shop Calibration MST-DA					
Performed : 10-JAN-2013			Time : 12:05		
Sensor Suite : CALI-MSN			ID : MST-DA-057		
CL # 1	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
	6.4	12.4	6.0	12.0	IN.
Performed : 10-JAN-2013			Time : 12:14		
Sensor Suite : MSTDA-NI			ID : MST-DA-057		
Internal					
	Measured		Calibrated		
	Zero	Reference	Zero	Reference	Units
INV-V	284.1	30430.4	0.00	1536.00	MV
NOR-V	164.9	30366.5	0.00	1636.00	MV
IN-C	161.5	30667.2	0.00	15.46	UA
INV-R				32.14	OHMM
NOR-R				58.31	OHMM

Shop Calibration PIT-CA					
Performed : 10-JUL-2013			Time : 10:51		
Sensor Suite : P-IND-T			ID : PIT-AC-13		
Medium					
	Measured		Calibrated		
	R	X	R	X	Units
Air	136385	125013	0.5	1.7	MMHOS
Zero	131064	131068	-36.9	58.8	MMHOS
Reference	251311	249780	4963.1	5058.8	MMHOS
Loop	135355	211355	3594.4	3681.1	MMHOS
Sonde Error			-12.4	-382.2	MMHOS
Cond			4963.1	5058.8	MMHOS
Deep					
	Measured		Calibrated		
	R	X	R	X	Units
Air	133090	127396	0.3	0.8	MMHOS
Zero	131080	131068	25.0	12.5	MMHOS
Reference	235849	236118	2025.0	2012.5	MMHOS

Loop	131319	217315	1678.4	1746.5	MMHOS
Sonde Error			5.6	-121.6	MMHOS
Cond			2025.0	2012.5	MMHOS
Temperature					
	Measured		Calibrated		
	Low	High	Low	High	Units
	16980.0	56920.0	70.0	350.0	DEGF
Performed : 10-JUL-2013			Time : 16:55		
Sensor Suite : SFL			ID : PIT-AC-13		
Internal					
	Measured		Calibrated		
	Zero	Reference	Zero	Reference	Units
Im	32767.2	49495.0	0.0	7028.0	uA
Ib	32772.6	49574.9	0.0	1750.0	mA
MOM1	32776.6	60690.5	0.0	175.0	mV
Equivalent SFL				43.97	OHMM
Performed : 10-JUL-2013			Time : 16:55		
Sensor Suite : P-SP			ID : PIT-AC-13		
Internal					
	Measured		Calibrated		
	Zero	Reference	Zero	Reference	Units
	32769.4	58920.1	0.0	1000.0	mV



Company: CYCLONE PETROLEUM, INC.
 Well: NEUWAY 14-3
 Location: 2250' FNL & 1308' FEL
 Logged: 10-14-2013
 K.B. Elev: 1456.0 Ft