

				MICROLOG GAMMA RAY	
COMPANY WELL FIELD COUNTY STATE LOCATION				UNION VALLEY PETROLEUM CORP. HARPER 1-17 CALDWELL SUMNER KANSAS 353' FSL & 336' FWL SW/SW	
SEC 17	TWP 35S	RGE 3W	Other Services		
Latitude Longitude API Number			35-191-22839		
Permanent Datum GROUND LEVEL, Elevation 1141 feet Log Measured From KB, 13.00 feet above Permanent Datum Drilling Measured From KB			Elevations: KB 1154.00 DF 1153.00 GL 1141.00		
Date	29-JAN-2022				
Run Number	ONE				
Service Order	S406-220128-122				
Depth Driller	4975.00		feet		
Depth Logger	4978.00		feet		
First Reading	4977.00		feet		
Last Reading	2800.00		feet		
Casing Driller	394.00		feet		
Casing Logger	394.00		feet		
Bit Size	7.875		inches		
Hole Fluid Type	GEL/CHEM				
Density / Viscosity	9.10	lb/USg	52.00	sec/qt	
PH / Fluid Loss	9.50		8.80	ml/30Min	
Sample Source	FLOWLINE				
Rm @ Measured Temp	1.34 @ 65.0		ohm-m		
Rmf @ Measured Temp	0.97 @ 65.0		ohm-m		
Rmc @ Measured Temp	1.63 @ 65.0		ohm-m		
Source Rmf / Rmc	CALC		CALC		
Rm @ BHT	0.69 @125.0		ohm-m		
Time Since Circulation	5 HOURS				
Max Recorded Temp	125.00		deg F		
Equipment / Base	406		ALVAR		
Recorded By	JOHN WELLS				
Witnessed By	DUSTIN JOHNSON				
RIG	DUKE #7				

BOREHOLE RECORD					Last Edited: 29-JAN-2022 00:05
Bit Size inches		Depth From feet		Depth To feet	
12.250		0.00		394.00	
7.875		394.00		4975.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
Surface	8.625	0.00	394.00	24.00	

REMARKS
-No SP Presented Due to Electrial Interference.
-Logging Software Version 21.15
-Tools Ran:CBH, MTA, SHA, MCG, MML, MDN, MPD, SKJ, MSS, MFE, MAI
-Hardware:
MDN: Dual Bowspring
MAI: 0.5 Inch Standoff
Holefinder
-2.71 Limestone Matrix Used for Calculating Porosity
-Borehole Size and Rugosity Can Affect Log Quality

Borehole Size and Rugosity Can Affect Log Quality

-Scales and Intervals Presented as Per Customer's Request

-Hole Volumes Calculated From TD to Surface Casing Shoe Using X.X Production Casing

Hole Volume: 1810 Cubic Ft.

Annular Volume: 1060 Cubic Ft.

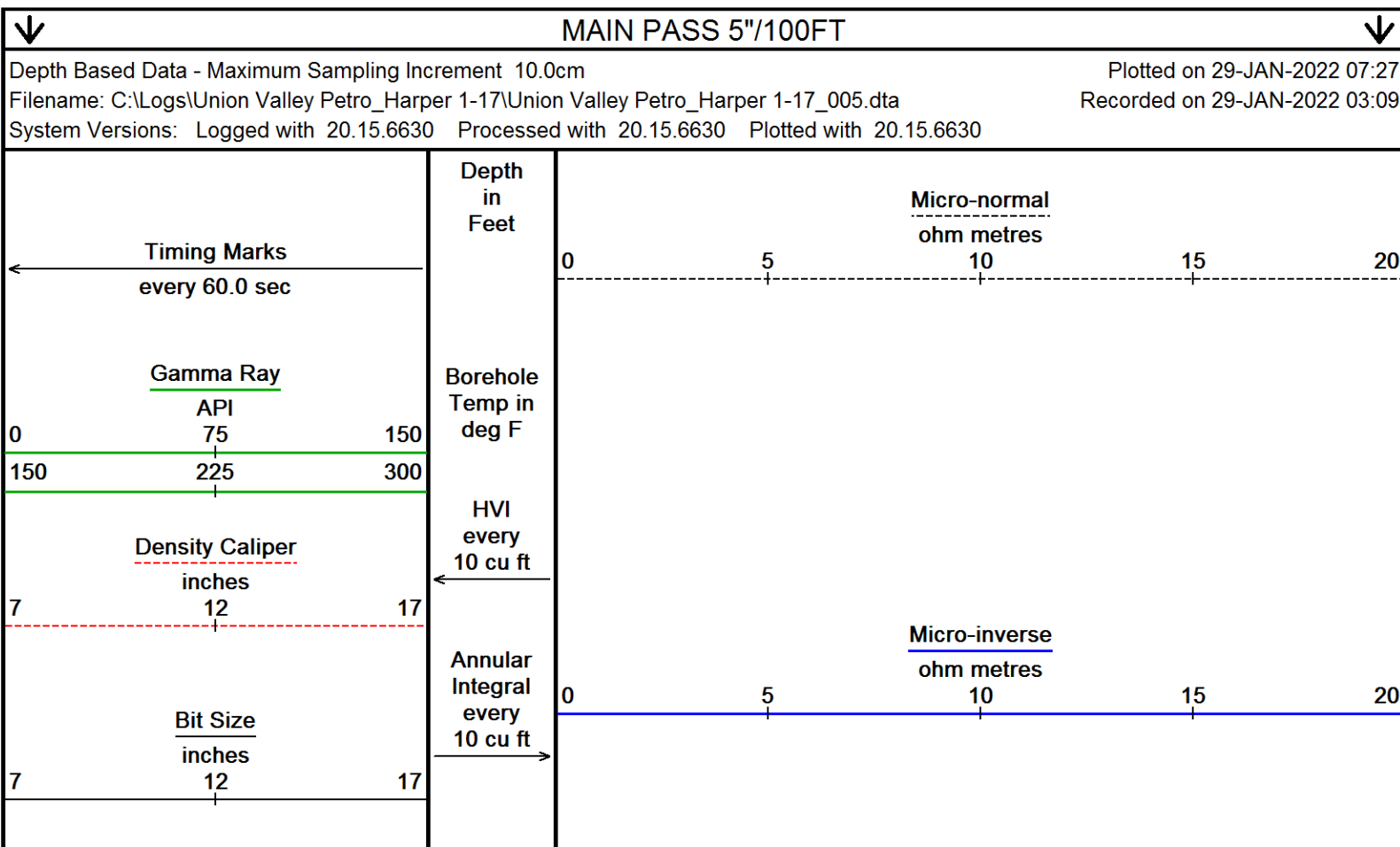
-Recon Petrotechnology Thanks You for Opportunity to Log This Well.

-Any Questions or Comments, Please Call: 1-682-628-4841

-For Service Please Call Logging Engineer: John Wells 620-309-0900

In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.

 Powered by Weatherford tools, acquisition systems, and software



DST Uphole Tension
pounds
10000 0

Replay
Scale
1:240

2800

108°

2850

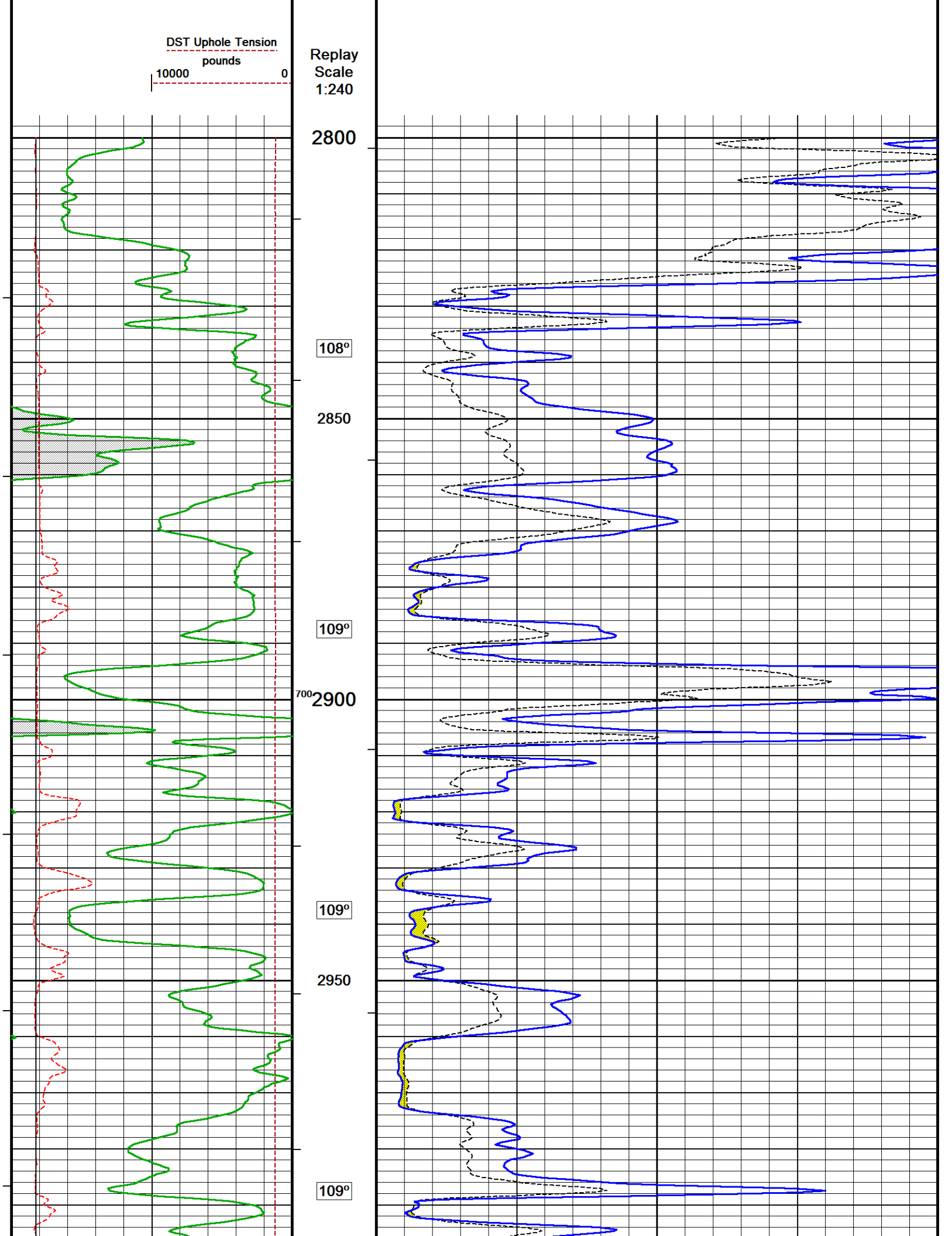
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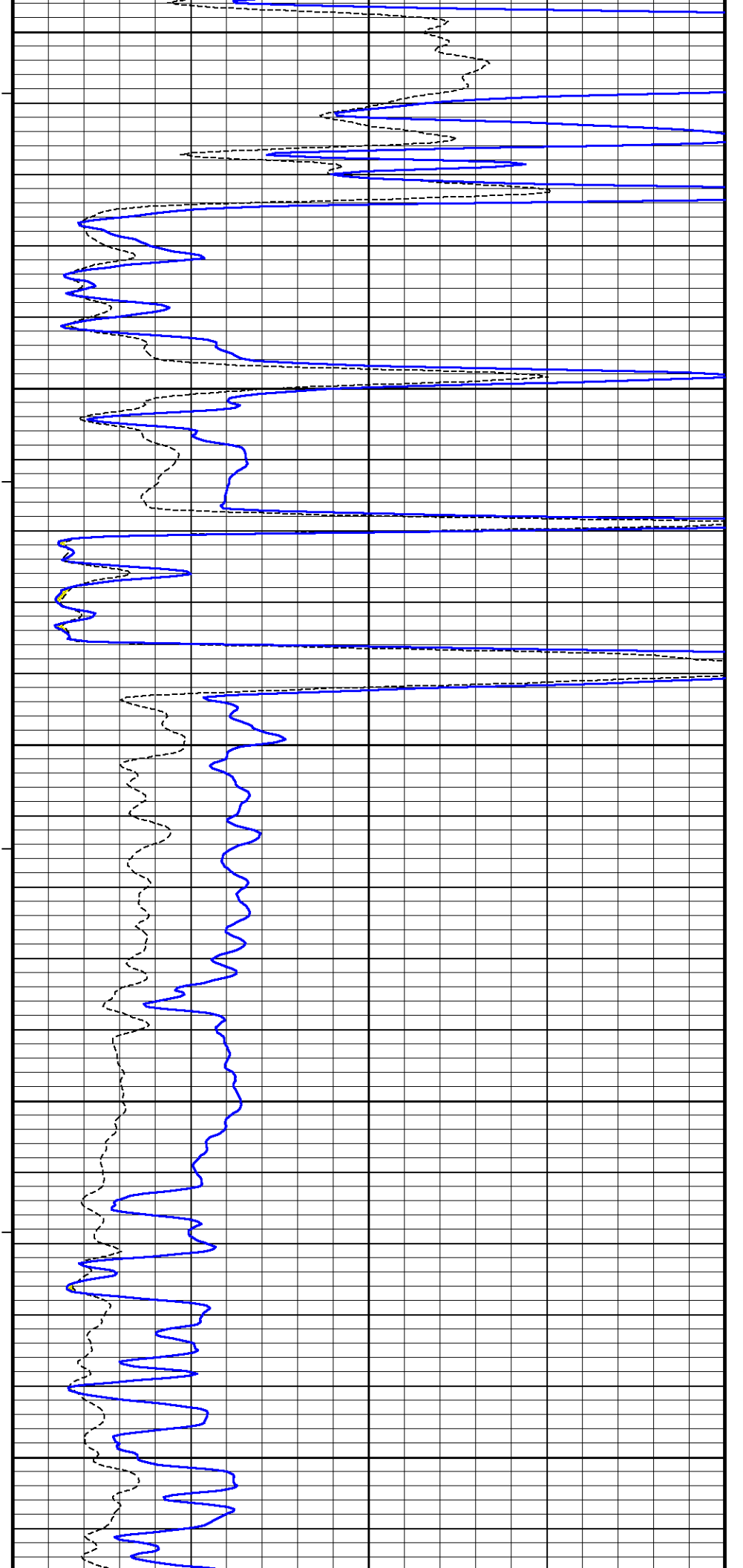
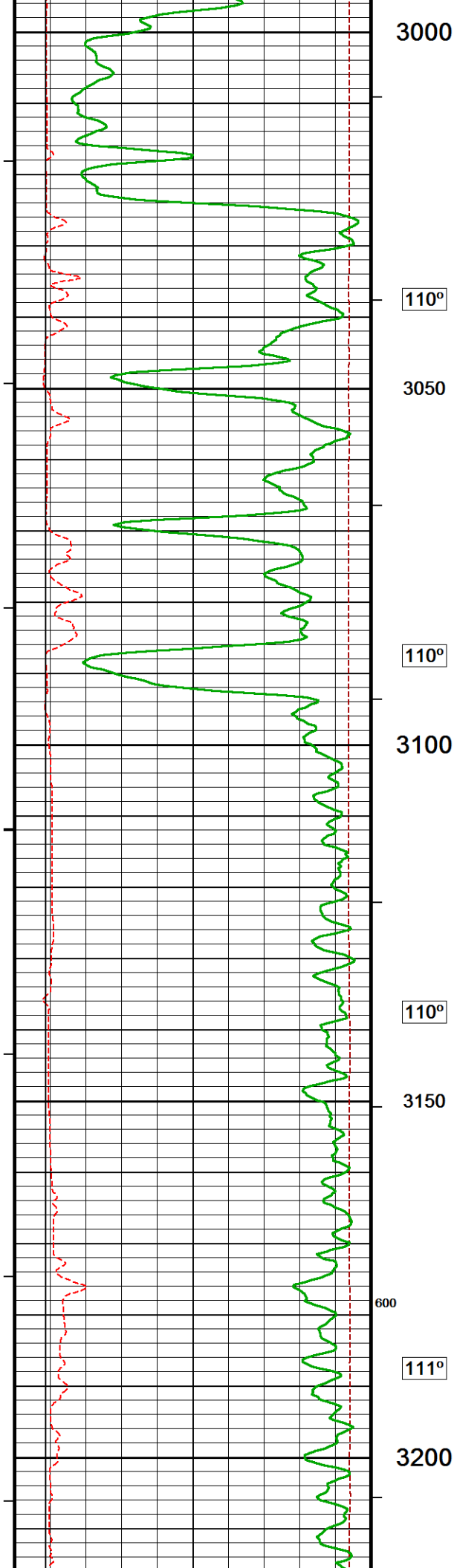
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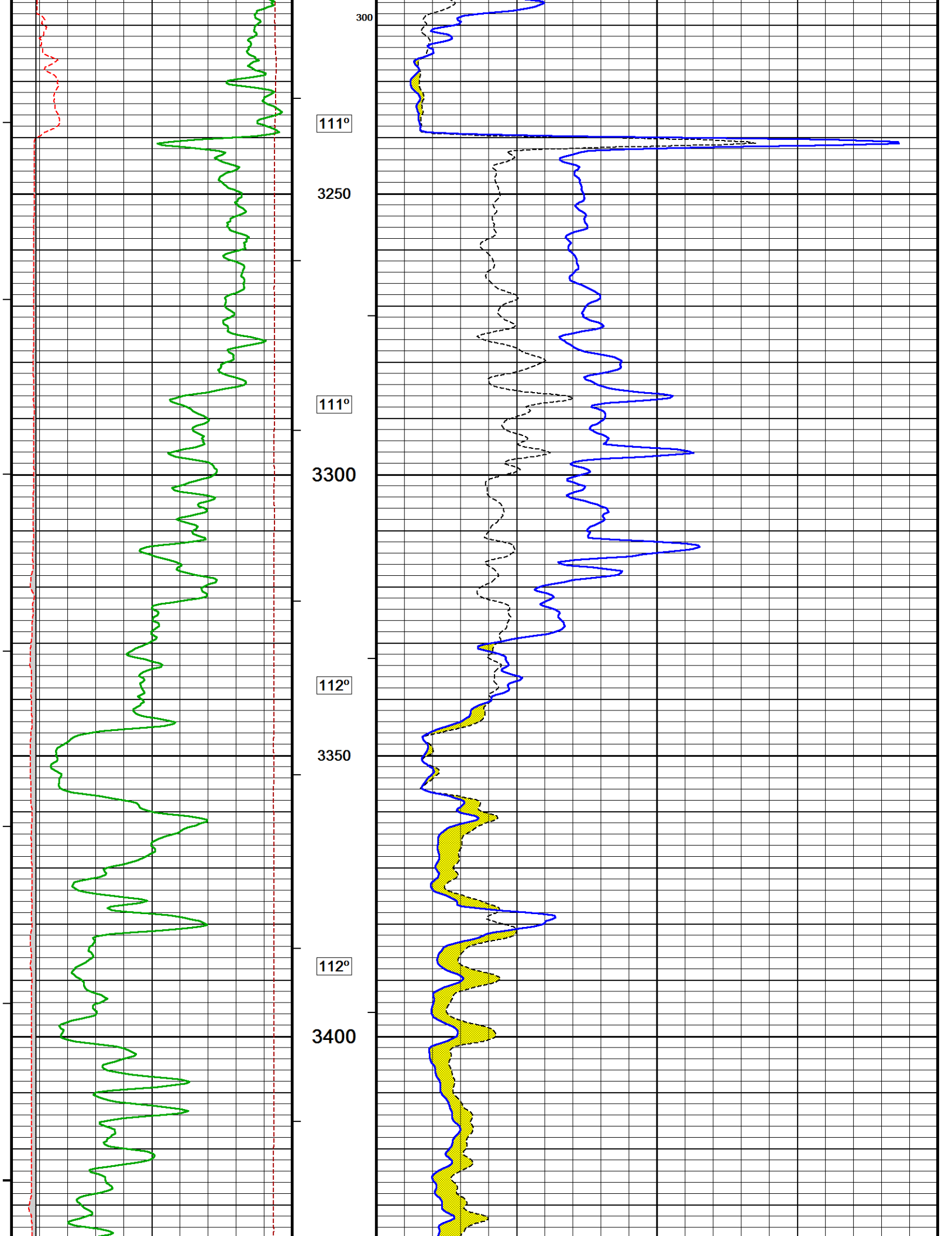
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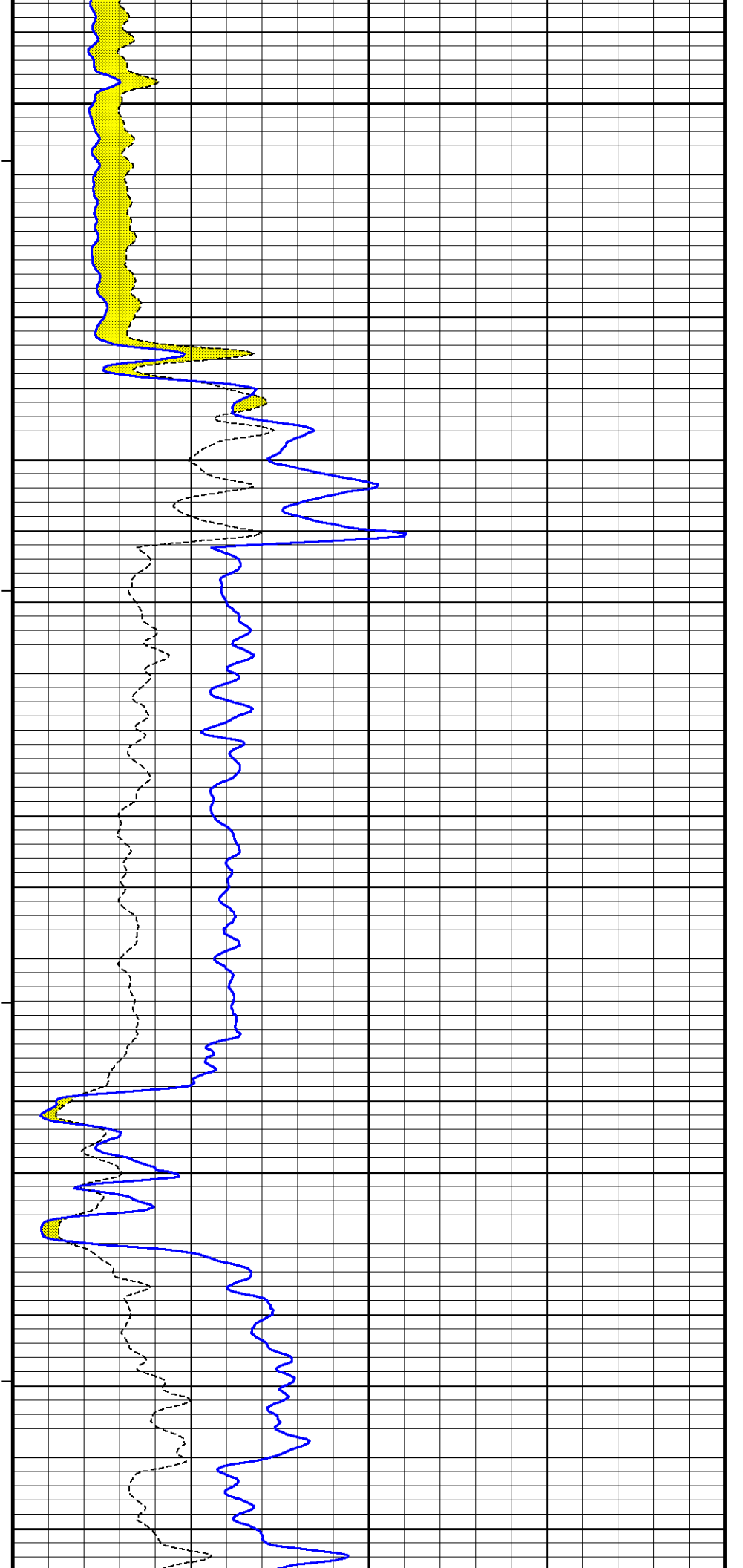
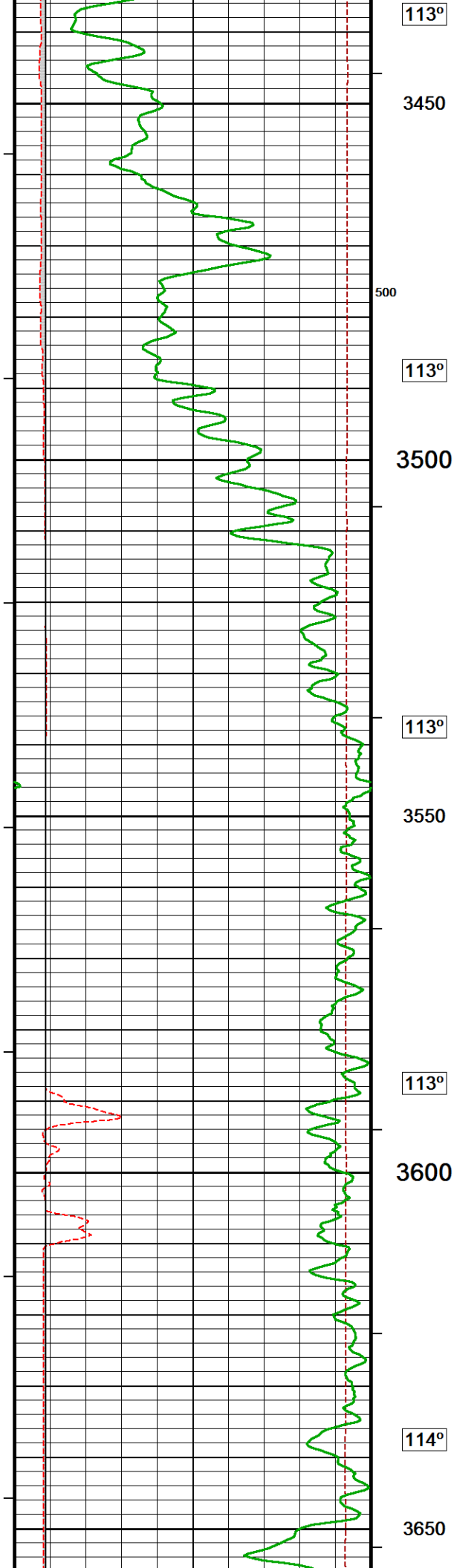
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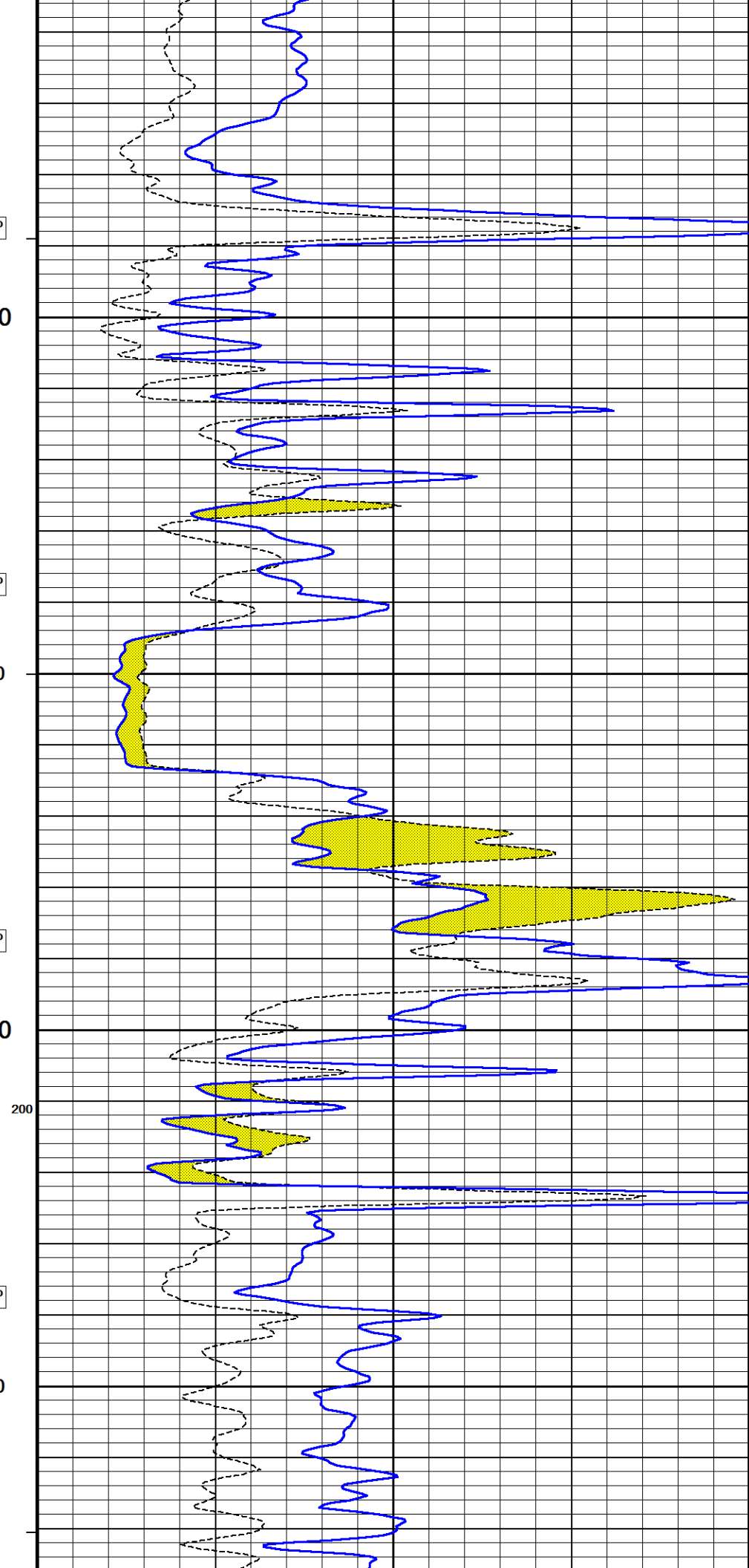
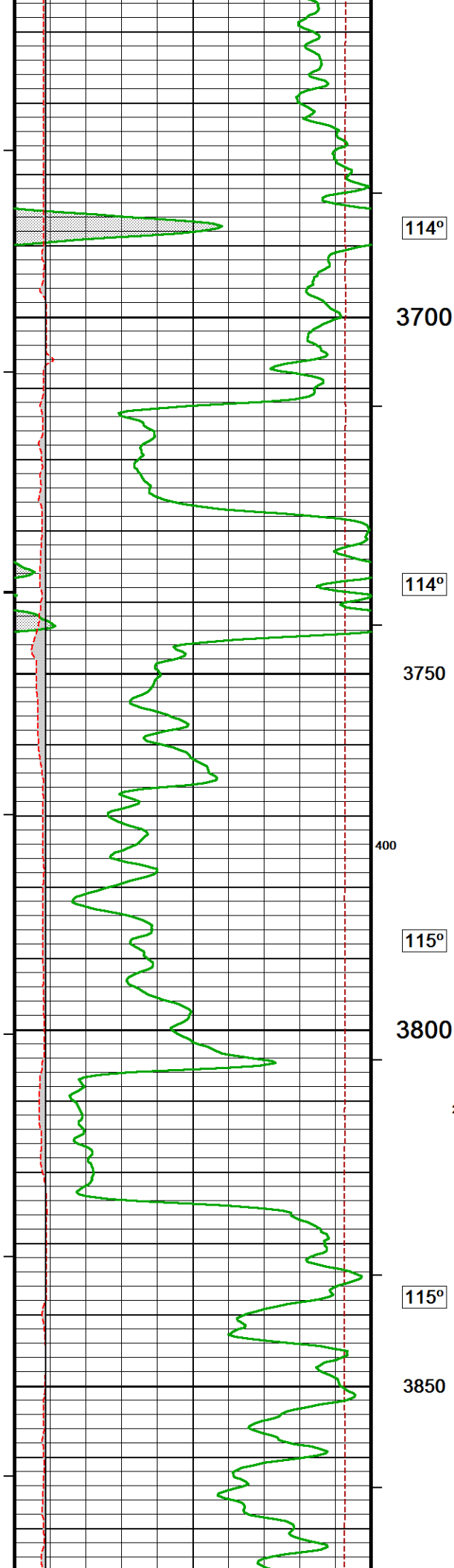
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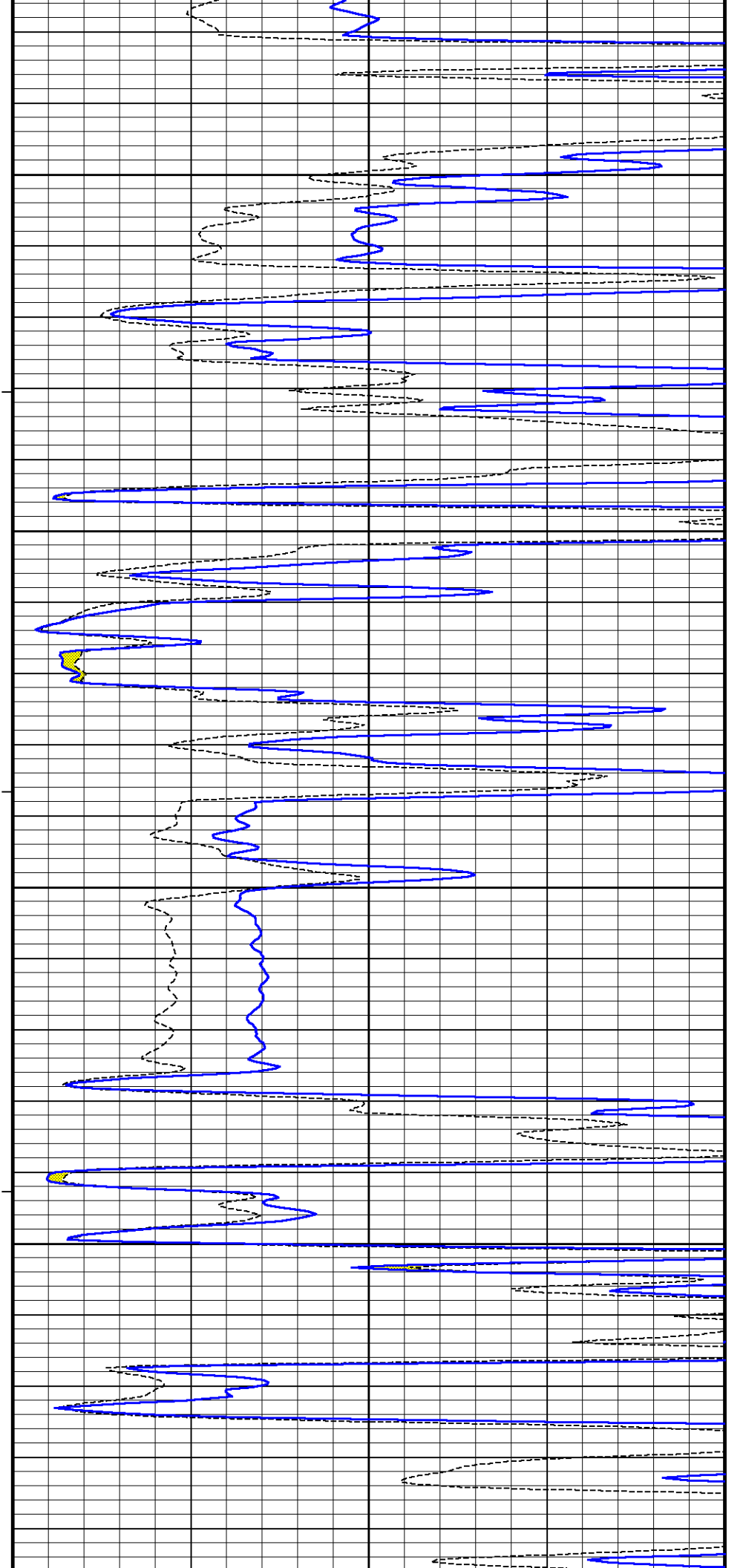
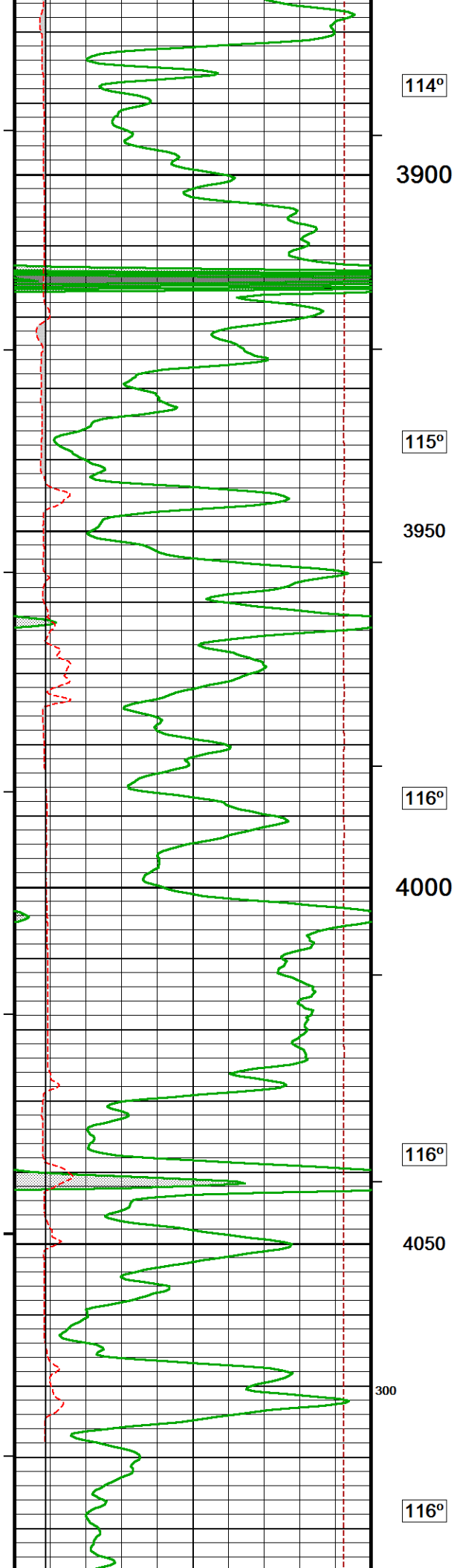


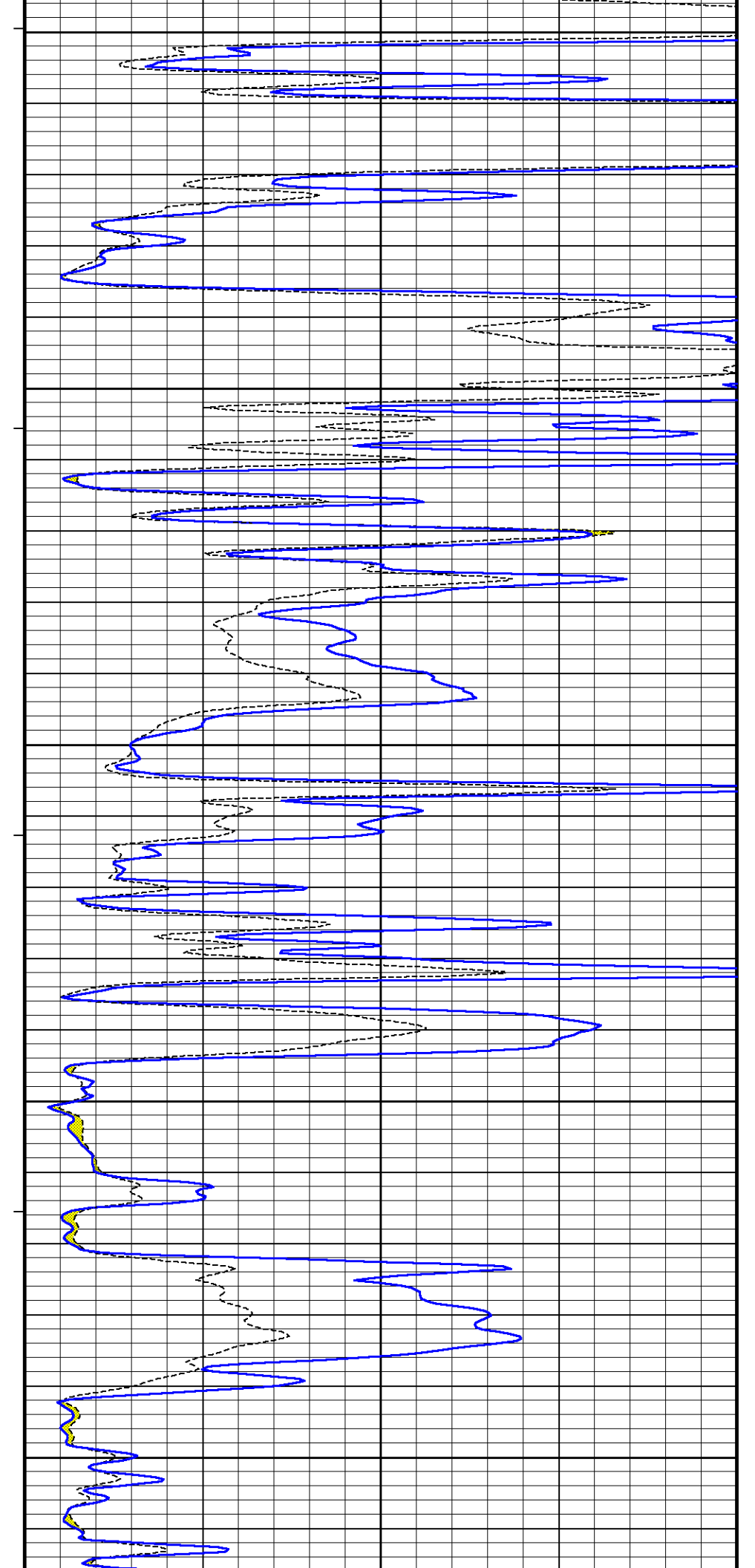
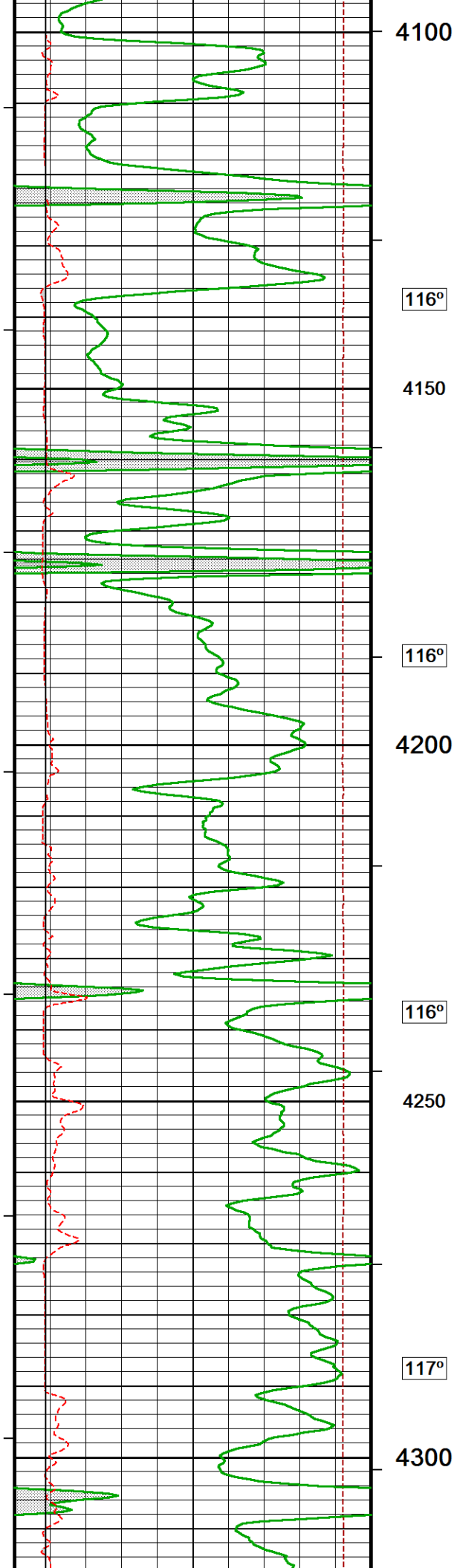


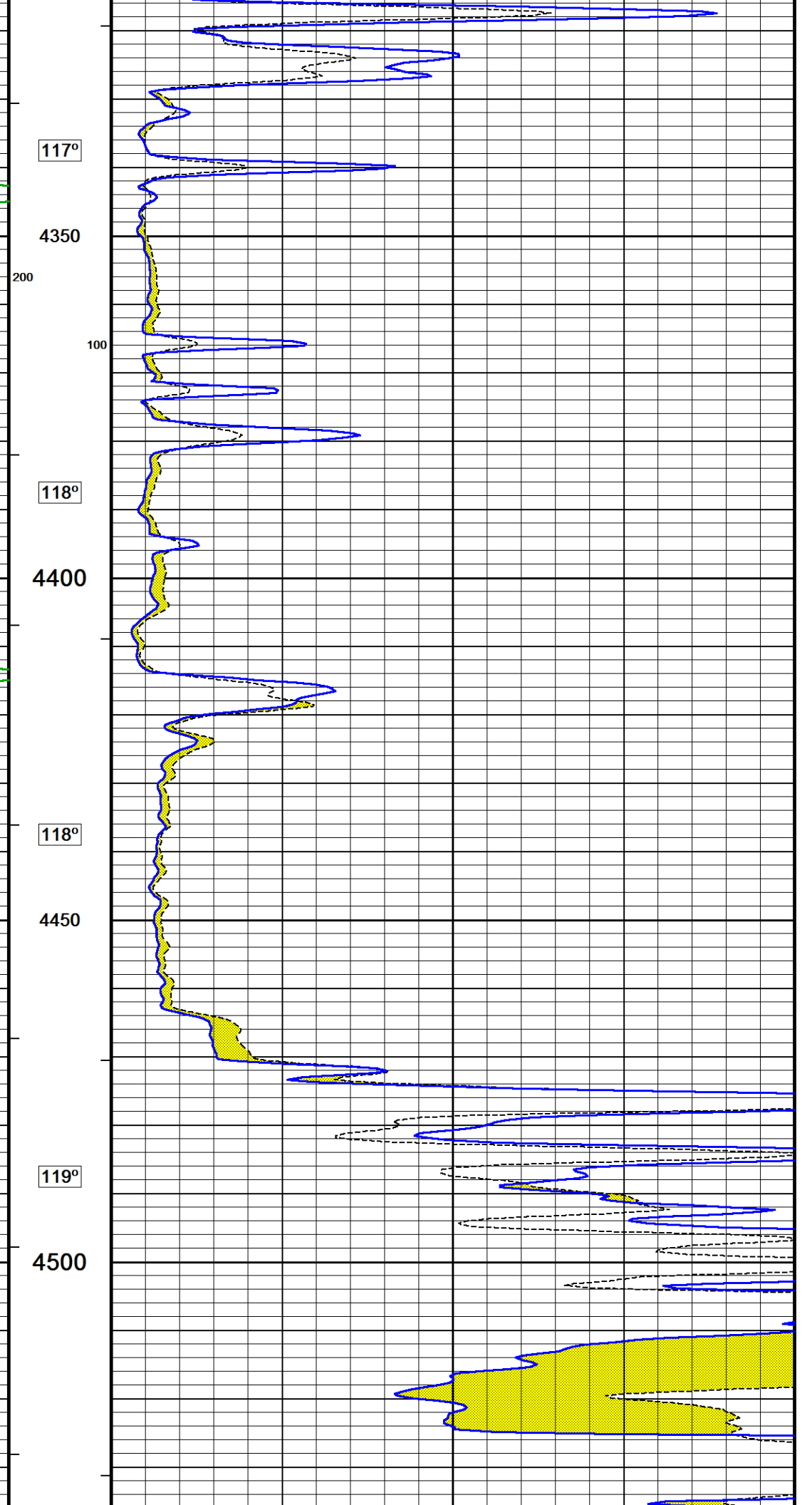
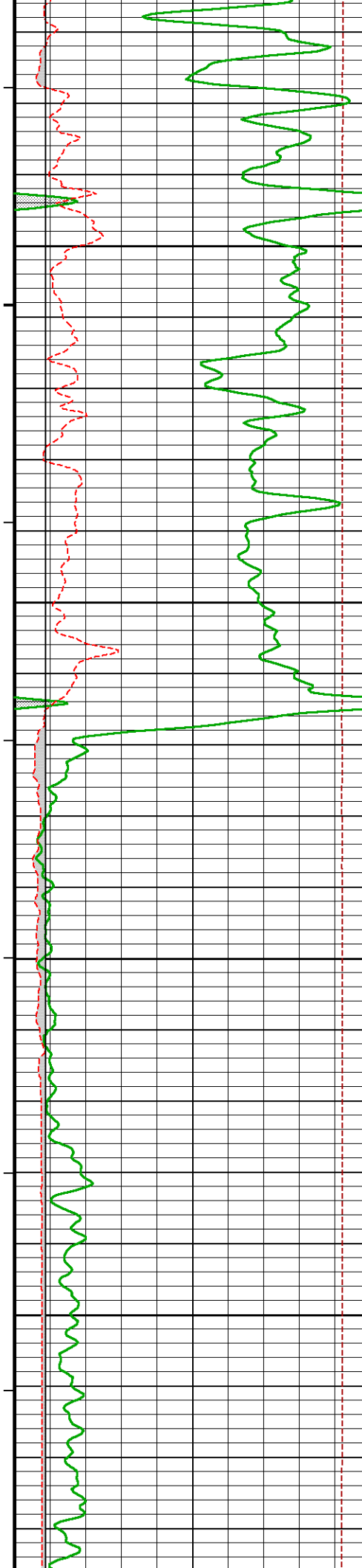


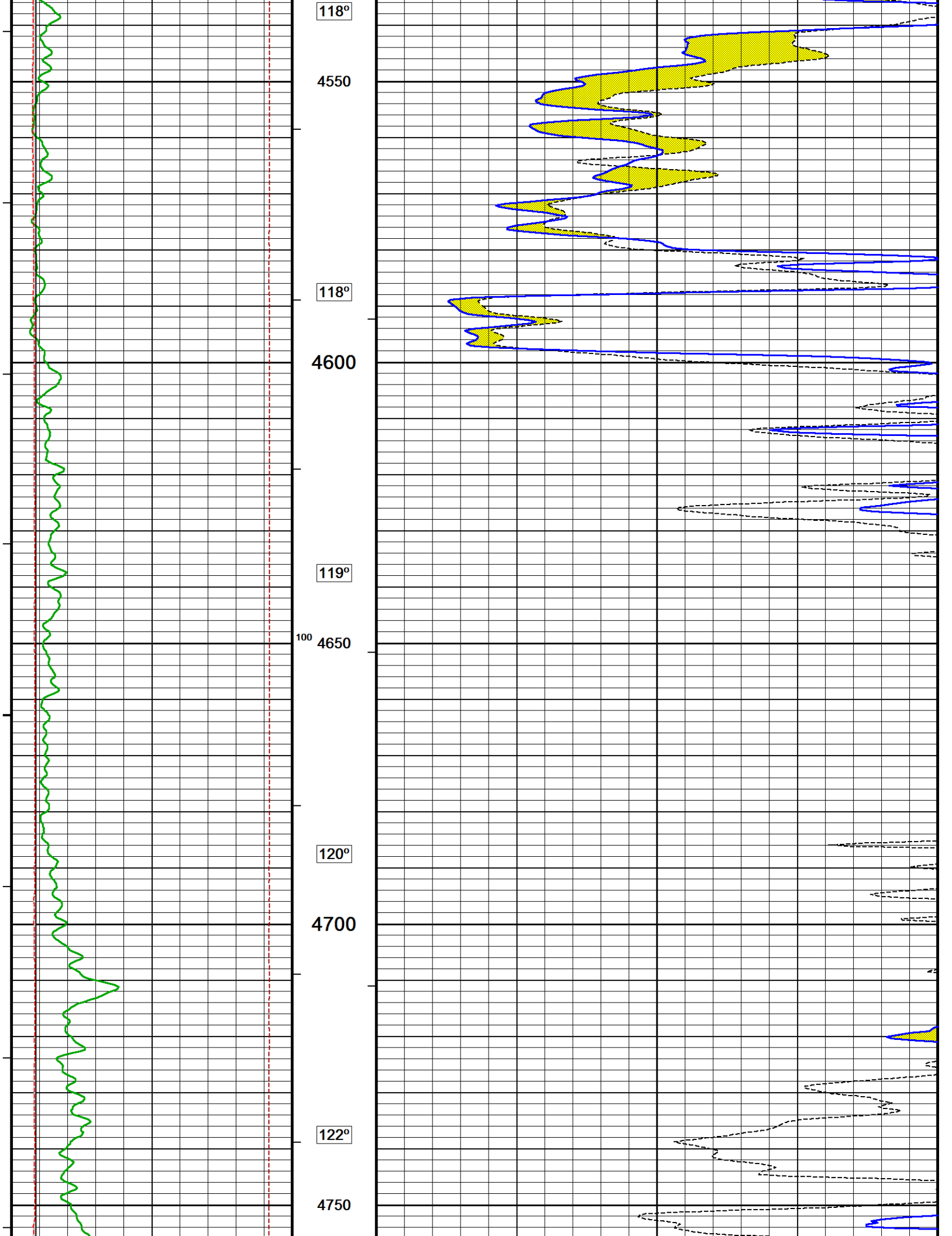


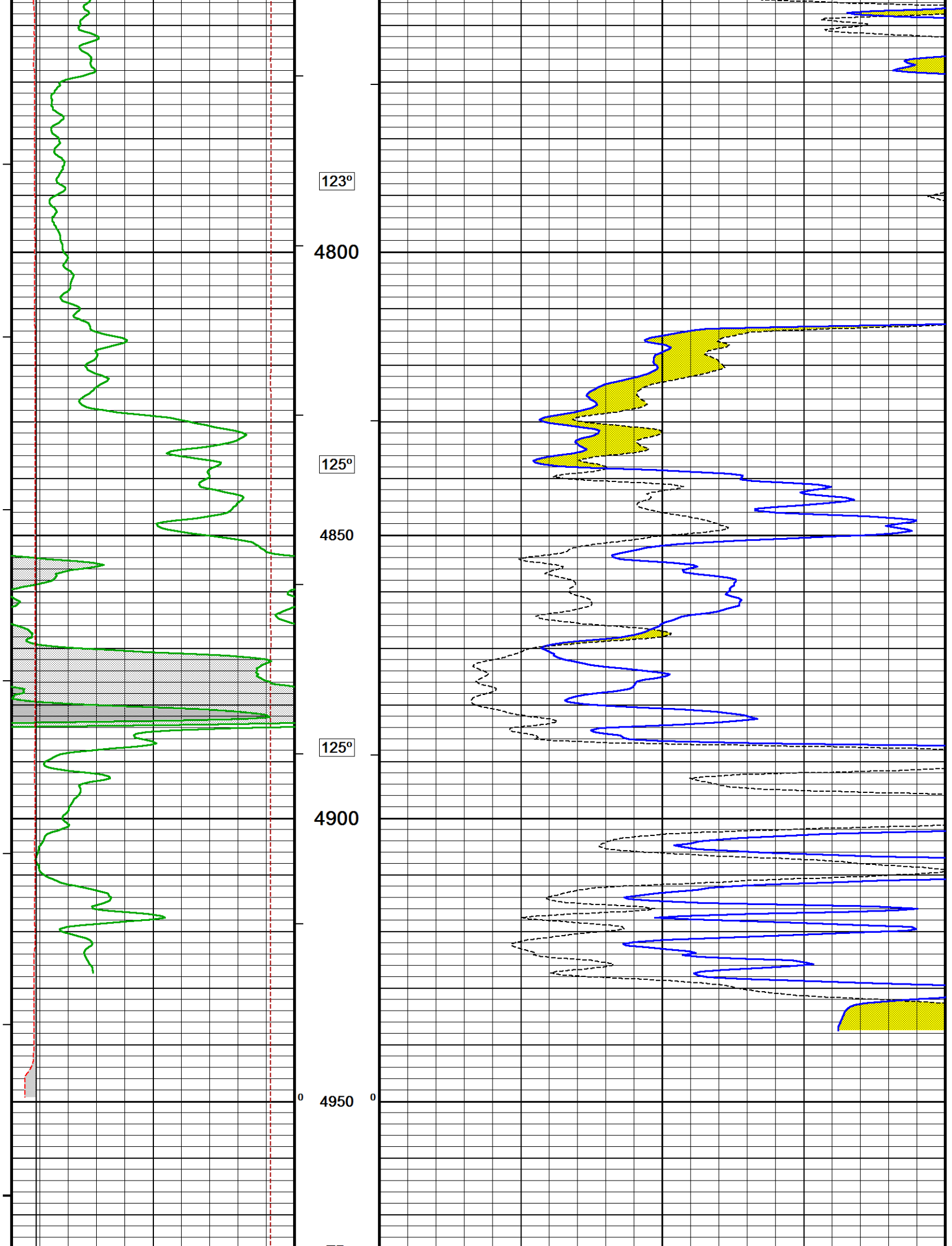


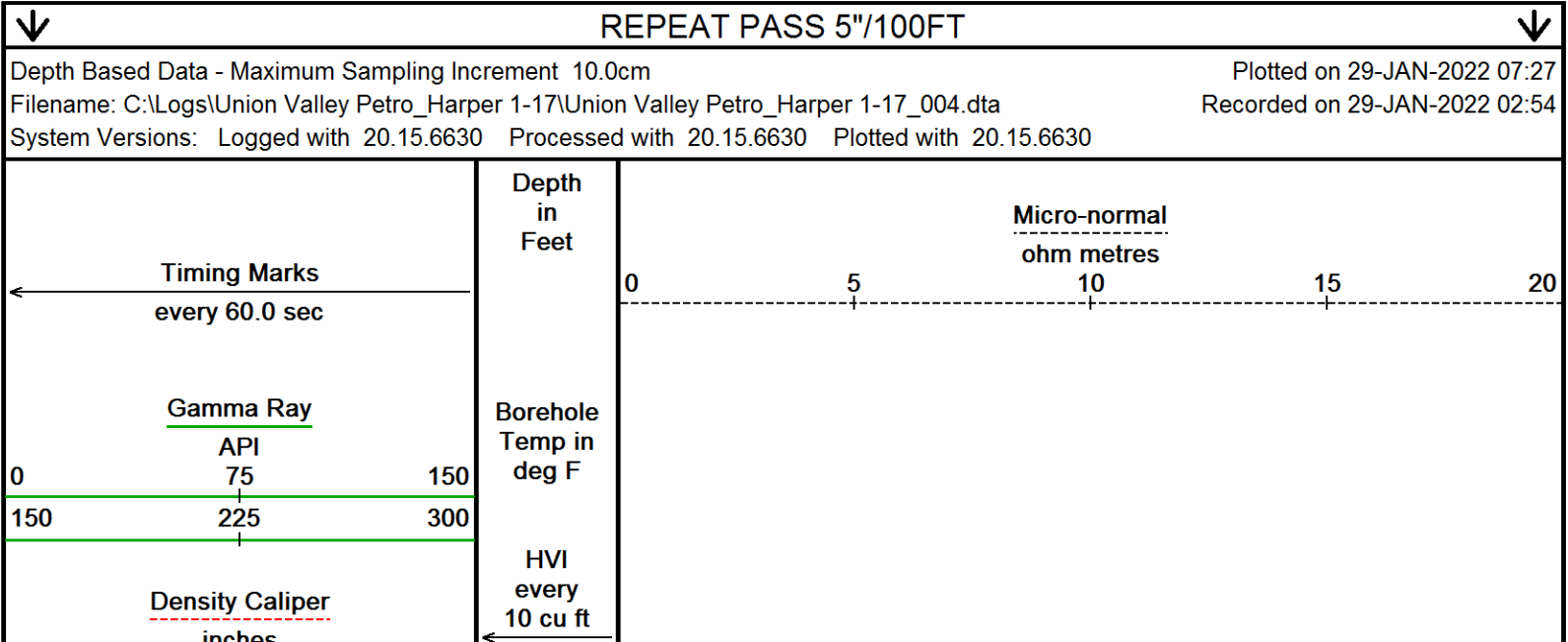
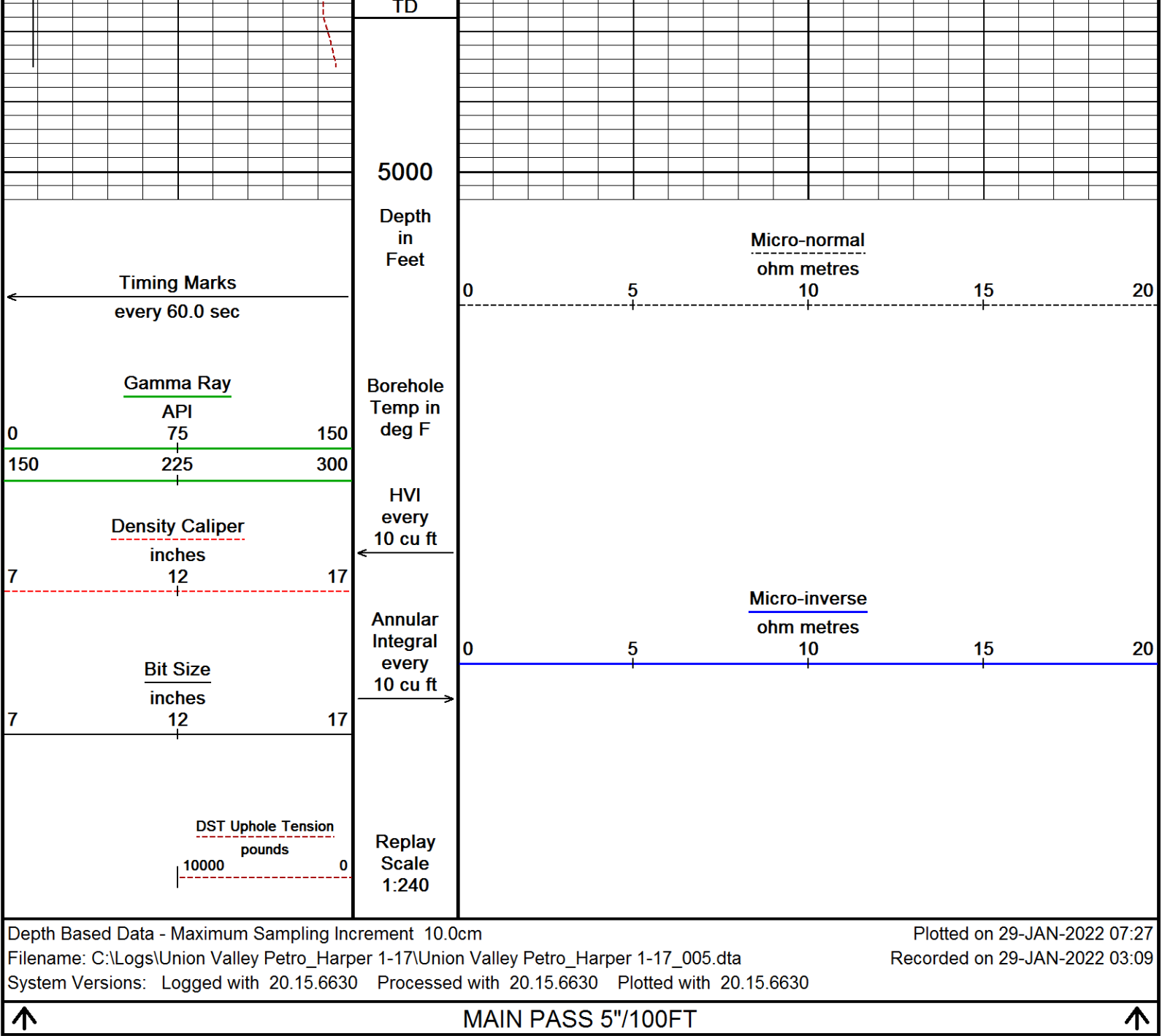


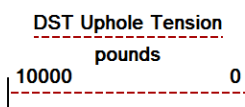
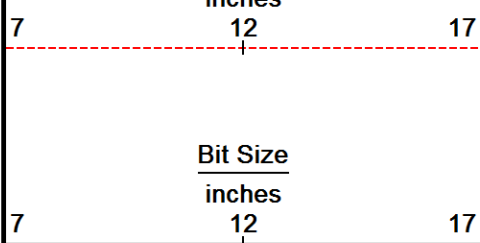






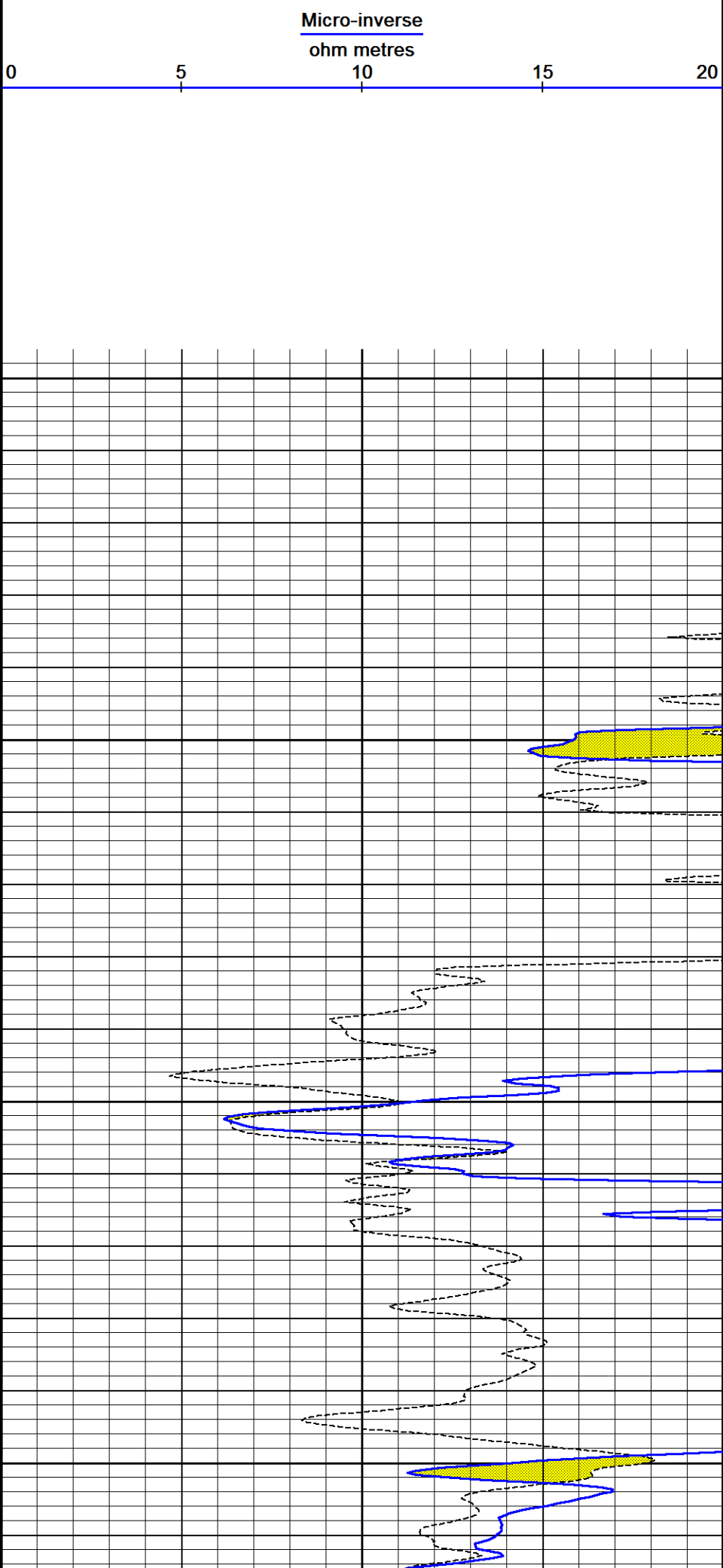


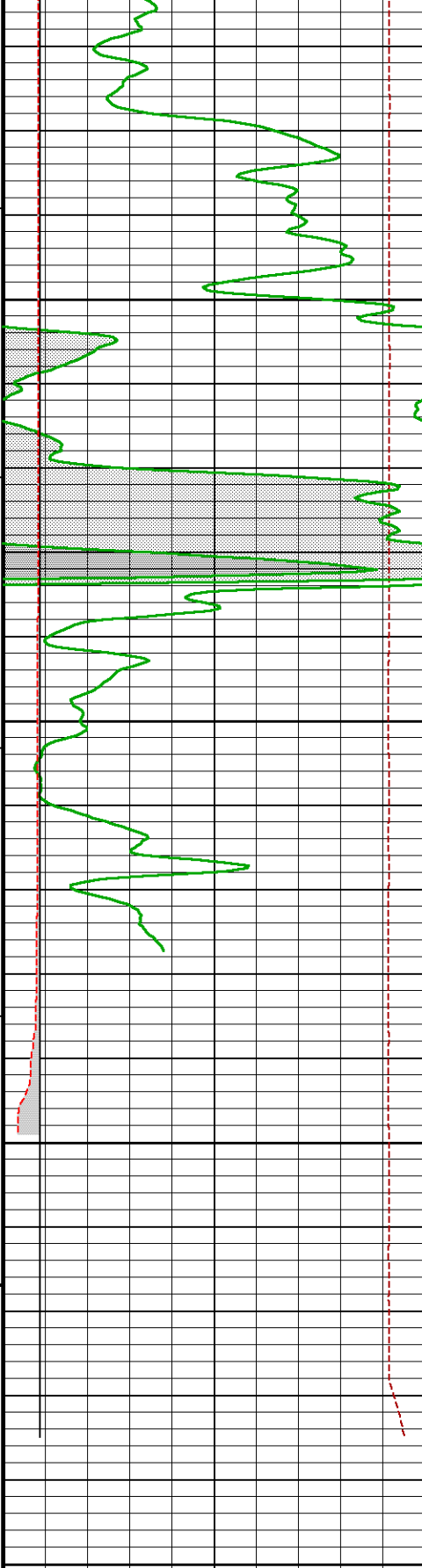




Annular
Integral
every
10 cu ft

Replay
Scale
1:240





123°

4850

124°

4900

4950

TD

5000
Depth
in
Feet

Timing Marks
every 60.0 sec

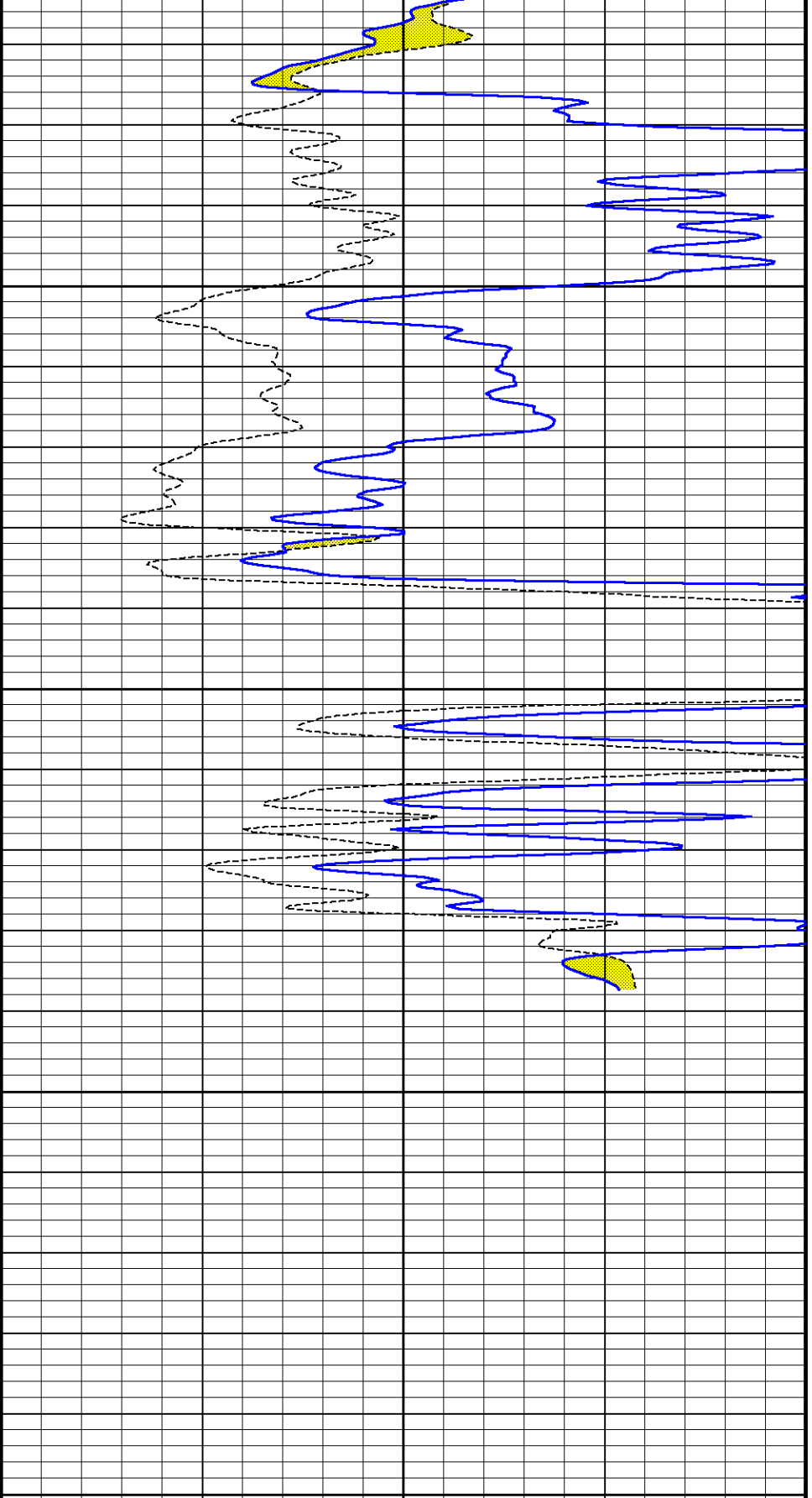
Gamma Ray

API

75

150

Borehole
Temp in
deg F



Micro-normal
ohm metres

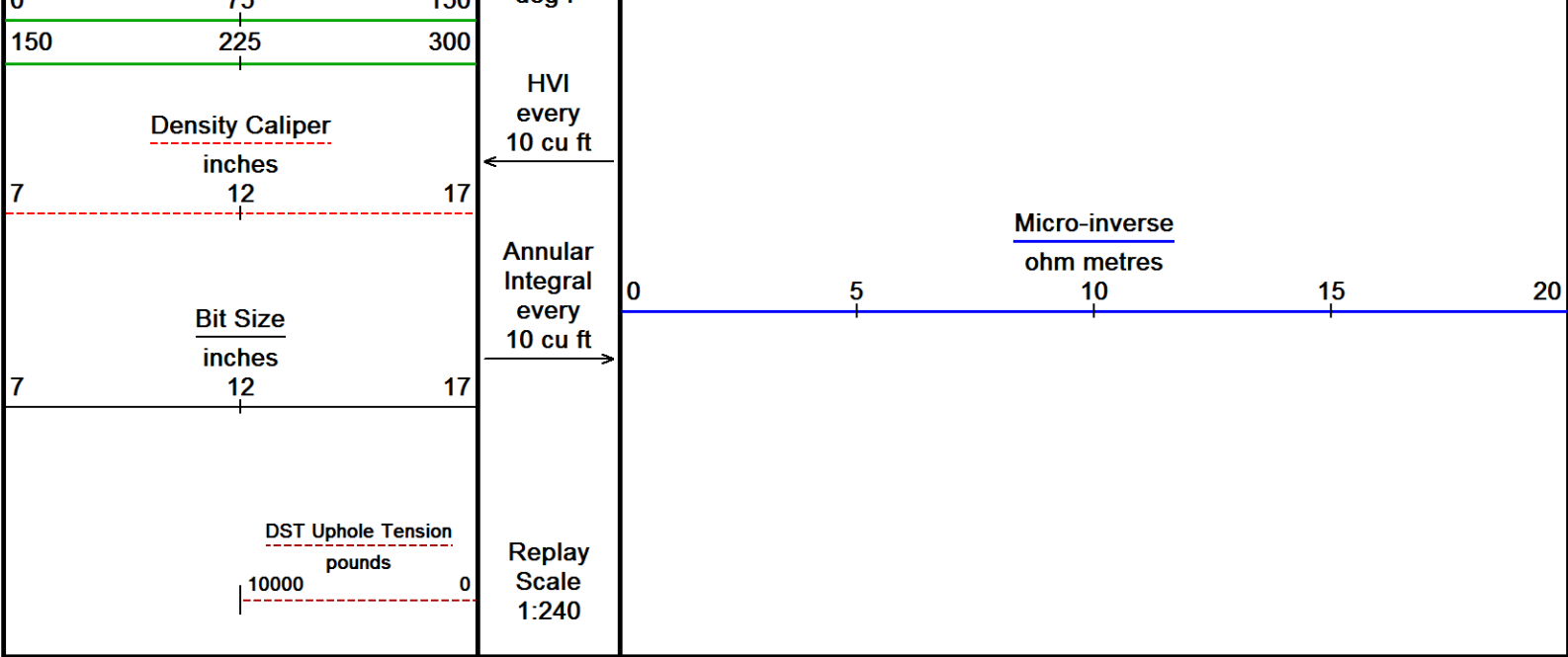
0

5

10

15

20



Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Logs\Union Valley Petro_Harper 1-17\Union Valley Petro_Harper 1-17_004.dta
System Versions: Logged with 20.15.6630 Processed with 20.15.6630 Plotted with 20.15.6630

↑ REPEAT PASS 5"/100FT ↑

BEFORE SURVEY CALIBRATION

C:\Logs\Union Valley Petro_Harper 1-17\Union Valley Petro_Harper 1-17_005.dta

General Constants All 000			Last Edited on 29-JAN-2022,02:51	
General Parameters				
Mud Resistivity	1.340	ohm-metres		
Mud Resistivity Temperature	65.000	degrees F		
Water Level	0.000	feet		
Borehole Fluid Processing	Wet Hole			
Hole/Annular Volume and Differential Caliper Parameters				
HVOL Method	Single Caliper			
HVOL Caliper 1	Density Caliper			
HVOL Caliper 2	N/A			
Annular Volume Diameter	5.500	inches		
Caliper for Differential Caliper	None			
Rwa Parameters				
Porosity used	Limestone Density Por.			
Resistivity used	Array Ind. Four Res Rt			
RWA Constant A	0.620			
RWA Constant M	2.150			
SW/APOR Tool Source	0.000			

Down-hole Tension Calibration SMS 0			Field Calibration on 22-JAN-2022 00:07
Reading No	Measured	Calibrated (lbs)	
1	-nan(ind)	0.00	
2	-nan(ind)	630.00	

SP Calibration MCG-E.A 574			Field Calibration on 21-JAN-2022,22:53
	Measured	Calibrated (mV)	
Reference 1	-1605.3	-1500.0	
Reference 2	1604.4	1500.0	

High Resolution Temperature Calibration MCG-E.A 574			Field Calibration on 21-JAN-2022,22:54
	Measured	Calibrated(Deg F)	
Lower	0.00	0.00	
Upper	0.00	0.00	

Pre-filter Length

11

Gamma Calibration MCG-E.A 574			Field Calibration on 04-JAN-2022 15:47
	Measured	Calibrated (API)	
Background	68	46	
Calibrator (Gross)	856	580	
Calibrator (Net)	788	534	

Gamma Calibration Tolerances MCG-E.A 574		
Ratio	1.476	1.40 1.475 1.55 Counts/API

Gamma Constants MCG-E.A 574			Last Edited on 29-JAN-2022,00:01
Gamma Calibrator Number	GRCC-225		
GRC-M Calibrator Jig in Use?	NO		
Inactive Background Jig in Use?	NO		
Mud Density	1.09	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Potassium Equivalence	Chloride		
K Mud Concentration	0.00	%	

Caliper Calibration MMR-A 32			Base Calibration on 08-JAN-2022 12:17
			Field Calibration on 29-JAN-2022,00:02
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	14594	5.96	
2	17962	7.96	
3	21333	9.86	
4	25479	11.92	
5	0	0.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	7.95	7.96	

Caliper Calibration Tolerances MMR-A 32		
Short Arm Field Cal.	7.95	7.76 7.96 8.16 in

Micro-Resistivity Caliper Constants MMR-A 32				
Sonde Configuration		Resistivity Mode		
Micro Laterolog Calibration MMR-A 32			Base Calibration on 31-DEC-1999 00:00	
			Field Check on 31-DEC-1999 00:00	
Base Calibration	Resistor 1 (ohm)		Resistor 2 (ohm)	
	0.0		0.0	
	Measured		Calibrated (ohm-m)	
	Ref 1	Ref 2	Ref 1	Ref 2
	0.0	0.0	0.0	0.0
Base Check (ohm-m)		Field Check (ohm-m)		
0.0		0.0		

Micro Laterolog Constants MMR-A 32			Last Edited on 13-MAY-2021,11:30
Pad Type	6 in Solid Nylon B23059		
Standoff Offset	0.0000	inches	
Micro Laterolog K Factor	0.0128		
Micro Laterolog Rm K Factor	N/A		
Mudcake Thickness Correction Constants			
Mud Cake Source	Constant Value		
Mud Cake Thickness	0.4000	inches	
Mud Cake Thickness Caliper	N/A		
Mud Cake Resistivity	0.1500	ohm-m	

Mud Cake Resistivity	0.1000	ohm-in
Mud Cake Resistivity Temp.	68.00	Deg F
Mud Cake Resistivity Source	Constant Value	
Temp. for Rmc Corr.	N/A	

Micro Normal and Micro Inverse Calibration MMR-A 32

Base Calibration on 08-JAN-2022 11:50
Field Check on 08-JAN-2022 11:52

	Resistor 1 (ohm)	Resistor 2 (ohm)
Base Calibration	10.0	50.0
	Measured	Calibrated (ohm-m)
Micro Normal	9.9 49.5	5.1100 25.5500
Micro Inverse	10.0 49.2	3.3800 16.9000
Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	94.0	94.0
Micro Inverse	62.7	62.7

Micro Normal & Micro Inverse Calibration Tolerance MMR-A 32

Micro Normal Res. 1	9.9		ohm	Micro Normal Res. 2	49.5		ohm
Micro Inverse Res. 1	10.0		ohm	Micro Inverse Res. 2	49.2		ohm
Micro Normal Base Check	94.0		ohm-m				
Micro Inverse Base Check	62.7		ohm-m				
Micro Normal Field Check	94.0		ohm-m				
Micro Inverse Field Check	62.7		ohm-m				

Micro Normal and Micro Inverse Constants MMR-A 32

Last Edited on 29-JAN-2022,00:02

Pad Type 8-12 in Soft Rubber Inflatable 006-9011-159
Micro Normal K Factor 0.5110
Micro Inverse K Factor 0.3380
Standoff Offset 0.5000 inches

Neutron Calibration MDN-C.A 462

Base Calibration on 24-JAN-2022,12:38

Base Calibration				
	Measured	Calibrated (cps)		
	Near Far	Near Far		
Ratio	3008 92	3714 110		
	32.666	33.764		
Field Calibrator at Base		Calibrated (cps)		
Ratio		2317 3421		
		0.677		
Field Check		Calibrated (cps)		
Ratio				

Neutron Calibration Tolerances MDN-C.A 462

Ratio	32.666	
Base Check	0.677	
Field Check	0.000	

Neutron Constants MDN-C.A 462

Last Edited on 29-JAN-2022,02:38

Neutron Source Id P58130B
Neutron Jig Number NJ5224
Air Hole Processing Legacy
Caliper Source for Processing Density Caliper
Stand-off 0.00 inches
Mud Density 1.00 gm/cc
Limestone Sigma 7.10 cu

Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	Constant Value	
Temperature	20.00	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

Sonic Constants MSS-C.K 376

Last Edited on 05-JAN-2022,01:52

Maximum Boundary Contrast	70.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec
Hunt-Raymer Constant	83.13	micro-sec/ft

Sonde Mode	Compensated
Hole Type	Open Hole

Sonde Parameters						
	Measured	Calibrated				
Offset		0.0000				
Free Pipe	N/A	N/A				
Peak Amplitude Source		N/A				
Waveform	Start Time (micro-sec)	Width (micro-sec)	Pre Gain	Start Gain	Discriminator (mV)	
3'	N/A	N/A	N/A	N/A	N/A	
4'	N/A	N/A	N/A	N/A	N/A	
5'	N/A	N/A	N/A	N/A	N/A	
6'	N/A	N/A	N/A	N/A	N/A	

Processed Fixed Gate Parameters				
Waveform Used For Processing	N/A			
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	Depth (ft)	
N/A	N/A	N/A	0.00	
N/A	N/A	N/A	0.00	
N/A	N/A	N/A	0.00	
N/A	N/A	N/A	0.00	
N/A	N/A	N/A	0.00	

Full Waveform Parameters			
Use 3' Waveform to derive TR	N/A		
Use 4' Waveform to derive TR	N/A		
Use 5' Waveform to derive TR	N/A		
Use 6' Waveform to derive TR	N/A		
3' Waveform Discriminator Level	N/A	mV	
4' Waveform Discriminator Level	N/A	mV	
5' Waveform Discriminator Level	N/A	mV	
6' Waveform Discriminator Level	N/A	mV	
Waveform Discriminator Filter	N/A		
Semblance Window Width	N/A	micro-sec	
Semblance Processing Enabled	N/A		
Tracking Boxes Enabled In Processing	N/A		

FE Calibration MFE-C.A 396

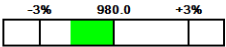
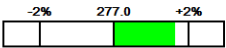
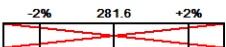
Base Calibration on 13-AUG-2021,18:56

	Resistor 1 (ohm)	Resistor 2 (ohm)
	0.0	1000.0
Base Calibration		

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	962.7	126.8
Base Check		281.6
Field Check		

FE Calibration Tolerances MFE-C.A 396

Reference 2	962.7		ohm
Base Check	281.6		ohm-m
Field Check	0.0		ohm-m

FE Constants MFE-C.A 396

Last Edited on 22-JAN-2022,02:02

Running Mode	No Sleeve
MFE K Factor	0.1268
Borehole Correction Constants	
Sonde Position	0.5 inches
Hole Size Source	Bit Size
Hole Size Constant Value	2.25 inches
Rm Source	Global Value: Constant Temperature
Temp. for Rm Corr.	N/A

Induction Calibration MAI-C.A 446

Factory Loop Calibration 12-MAR-2012,07:36

Field Check on 01-SEP-2021,18:49

Factory Loop Calibration

High Conductivity Reference Resistor	3.3 ohm
Low Conductivity Reference Resistor	333.3 ohm

Array	Measured Signal (unitless)		Reference Conductivity (mmho/m)		Calibration	
	Low	High	Low	High	Gain	Offset
1 (near)	16.4	445.8	9.3	966.2	0.000	0.0
2	6.0	367.6	7.6	821.4	0.000	0.0
3	3.3	249.2	5.2	566.0	0.000	0.0
4 (far)	1.6	129.1	2.6	279.2	0.000	0.0
Array Temperature	74.1	Deg F				

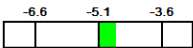
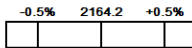
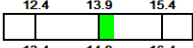
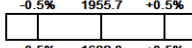
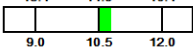
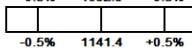
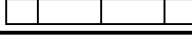
Tool Checks 24-JAN-2022,12:20

Array	Factory Reference (mmho/m)		Before Survey (mmho/m)		
	Low	High	Low	High	
1 (near)	-5.1	2164.2	-4.6	2164.1	
2	13.9	1955.7	14.3	1955.5	
3	14.9	1692.8	15.2	1692.6	
4 (far)	10.5	1141.4	10.8	1141.4	
Array Temperature	103.2		80.9	Deg F	

Tool Zero Corrections

Array		
1 (near)	0.0	mmho/m
2	0.0	mmho/m
3	0.0	mmho/m
4 (far)	0.0	mmho/m

Induction Check Tolerances MAI-C.A 446

Low Array 1	-4.6		mmho/m	High Array 1	2164.1		mmho/m
Low Array 2	14.3		mmho/m	High Array 2	1955.5		mmho/m
Low Array 3	15.2		mmho/m	High Array 3	1692.6		mmho/m
Low Array 4	10.8		mmho/m	High Array 4	1141.4		mmho/m

Induction Constants MAI-C.A 446

Last Edited on 29-JAN-2022,02:51

Induction Model		RtAP-WBM	
Borehole Correction Constants			
Tool Centred		No	
Hole Size Source		Density Caliper	
Hole Size Constant Value		N/A	inches
Stand-off Type		Fins	
Stand-off		0.50	inches
Number of Fins on Stand-off		6.0000	
Stand-off Fin Angle		60.00	degrees
Stand-off Fin Width		0.7500	inches
Rm Source	Global Value: Constant Temperature		
Temp. for Rm Corr.		N/A	
Borehole Correction Method		Default	
Squasher Start		0.0020	mhos/metre
Squasher Offset		N/A	mhos/metre
Borehole Normalisation			
DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000
Calibration Site Corrections			
Channel 1		0.00	mmhos/metre
Channel 2		0.00	mmhos/metre
Channel 3		0.00	mmhos/metre
Channel 4		0.00	mmhos/metre
Symmetrised Receiver Gains			
Receiver 1		1.00	
Receiver 2		1.00	
Receiver 3		1.00	
Receiver 4		1.00	
Apparent Porosity and Water Saturation Constants			
Archie Constant (A)		1.00	
Cementation Exponent (M)		2.00	
Saturation Exponent (N)		2.00	
Saturation of Water for Apor		100.00	percent
Resistivity of Water for Apor and Sw		0.05	ohm-m
Resistivity of Mud Filtrate for Sw		0.00	ohm-m
Source for Rt		0.00	
Source for Rxo		0.00	

High Resolution Temperature Calibration MAI-C.A 446			Field Calibration on 12-MAR-2012,07:34
	Measured	Calibrated(Deg F)	
Lower	10.00	50.00	
Upper	100.00	212.00	

High Resolution Temperature Constants MAI-C.A 446		Last Edited on 28-NOV-2021,12:39
Pre-filter Length	11	

Photo Density Calibration MPD-C.J 380			Base Calibration on 04-JAN-2022 14:51 Field Check on 24-JAN-2022,12:49	
Density Calibration				
Base Calibration		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Background	942	1031		
Reference 1	51780	24064	59553	30910
Reference 2	20988	2147	25010	2543
Field Check at Base				
	942.1	1030.7		
Field Check				

934.2 1034.1

PE Calibration

Base Calibration

	WS	Measured WH	Ratio	Calibrated Ratio
Background	167	843		
Reference 1	21068	51620	0.412	0.371
Reference 2	5964	20883	0.289	0.273

Field Check at Base

166.8 842.5

Field Check

168.4 830.9

Photo Density Calibration Tolerances MPD-C.J 380

Near Density Ratio	2.54	-5% 2.52 +5%
PE Calibration	0.115	0.089 0.110 0.131

Far Density Ratio	20.63	-5% 21.00 +5%
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Near Den. Field Check	934.2	-3% 942.1 +3%
PE WS Field Check	168.4	-6% 166.8 +6%

Far Den. Field Check	1034.1	-3% 1030.7 +3%
PE WH Field Check	830.9	-6% 842.5 +6%

Density Constants MPD-C.J 380

Last Edited on 29-JAN-2022,00:03

Density Source Id	H79951B	
Nylon Calibrator Number	DNC-E662	
Aluminium Calibrator Number	DAC-D687	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.09	gm/cc
Mud Density Type	Non-Barite	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Precision Enhanced Density Processing	Not Applied	
Matrix Density (gm/cc)	Depth (ft)	
2.71	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

Caliper Calibration MPD-C.J 380

Base Calibration on 04-JAN-2022 15:08

Field Calibration on 04-JAN-2022 15:10

Base Calibration	Measured	Calibrator Size (in)
Reading No		
1	16803	4.01
2	25320	5.96
3	34064	7.96
4	42221	9.86
5	51519	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.99	7.96

Caliper Calibration Tolerances MPD-C.J 380

Long Arm Field Cal.	7.99	7.56 7.96 8.36 in
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DOWNHOLE EQUIPMENT

C:\Logs\Union Valley Petro_Harper 1-17\Union Valley Petro_Harper 1-17_005.dta

Cablehead, 11 pin
CBH-CA 226 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

11C-11B Compact Tool Adaptor
MTA-K.B 304 LG: 1.53 ft WT: 13.2 lb OD: 2.240 in

Compact Swivel Head Adaptor
SHA-J.B 574 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Comms Gamma
MCG-E.A 574 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-Resistivity
MMR-A 32 LG: 8.59 ft WT: 81.6 lb OD: 4.882 in

Compact Neutron
MDN-C.A 462 LG: 5.04 ft WT: 50.7 lb OD: 2.240 in

Compact Density/Caliper
MPD-C.J 380 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

Compact Knuckle Joint
SKJ-E.B 557 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

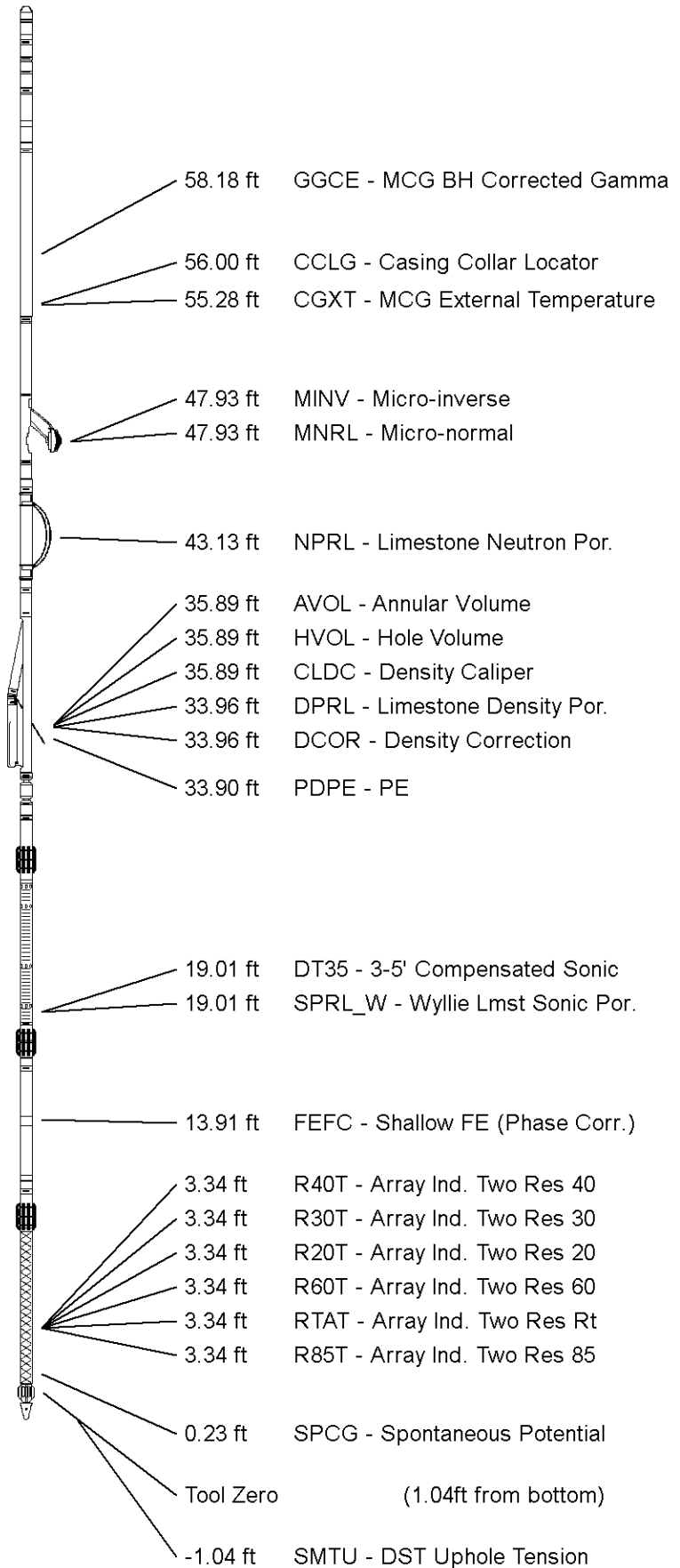
Compact Sonic
MSS-C.K 376 LG: 12.52 ft WT: 72.8 lb OD: 2.244 in

Compact Focussed Electric
MFE-C.A 396 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Induction
MAI-C.A 446 LG: 10.81 ft WT: 48.5 lb OD: 2.240 in

Pressure Bung + Hole Finder
HFS 3 LG: 0.91 ft WT: 6.6 lb OD: 2.240 in

Total Length: 70.59 ft Weight: 546.7 lb



All measurements relative to tool zero.

COMPANY
WELL

UNION VALLEY PETROLEUM CORP.
HARPER 1-17

FIELD	CALDWELL
PROVINCE/COUNTY	SUMNER
COUNTRY/STATE	KANSAS

Elevation Kelly Bushing	1154.00	feet	Last Reading	2800.00	feet
Elevation Drill Floor	1153.00	feet	First Reading	4977.00	feet
Elevation Ground Level	1141.00	feet	Depth Driller	4975.00	feet
			Depth Logger	4978.00	feet



MICROLOG
GAMMA RAY