REC'D OCT 14 2011

Schlumberger

Company: **OXY US LA BASIN**

CONFIDENTIAL

Well: **DOM-001**
Field: **Dominguez**
County: **Los Angeles** State: **California**

County: Los Angeles
Field: Dominguez
Location: SURFACE LAMBERT COORDIN
Well: DOM-001
Company: OXY US LA BASIN

DUAL OIL BASED MUD IMAGER
GAMMA RAY TIE IN
FIELD PRINT

LOCATION

SURFACE LAMBERT COORDINATES
N: 4 0622 754.8
E: 4 214 067.32

Elev.: K.B. 194.09 ft
G.L. 168.97 ft
D.F. 194.09 ft

Permanent Datum: GROUND LEVEL — Elev.: 186.97 ft
Log Measured From: DERRICK FLOOR — 7.03 ft above Perm. Datum
Drilling Measured From: DERRICK FLOOR

API Serial No.	Section	Township	Range
037-27124	33	3S	13W

Logging Date			22-Jan-2011								
Run Number			TWO								
Depth Driller			12885 ft								
Schlumberger Depth			12898 ft								
Bottom Log Interval			12886 ft								
Top Log Interval			11115 ft								
Casing Driller Size @ Depth			7.000 in	@	11103 ft		@				
Casing Schlumberger			11115 ft								
Bit Size			6.000 in								
Type Fluid In Hole			SYNTHETIC BASED MUD								
MUD	Density	Viscosity	13.5 lbm/gal	52 s							
MUD	Fluid Loss	PH	3.7 cm3								
MUD	Source Of Sample		N/A								
RM @ Measured Temperature				@			@				
RMF @ Measured Temperature				@			@				
RMC @ Measured Temperature				@			@				
Source RMF	RMC		N/A	N/A							
RM @ MRT	RMF @ MRT		@ 305	@ 305		@		@			
Maximum Recorded Temperatures			301 degF	305	299						
Circulation Stopped	Time		20-Jan-2011	19:00							
Logger On Bottom	Time		22-Jan-2011	6:45							
Unit Number	Location		2363	BAKERSFIELD							
Recorded By			JARROD LONG								
Witnessed By			SCOTT PRIOR								

			Run 1		Run 2	
Logging Date						
Run Number						
Depth Driller						
Schlumberger Depth						
Bottom Log Interval						
Top Log Interval						
Casing Driller Size @ Depth					@	
Casing Schlumberger						
Bit Size						
Type Fluid In Hole						
MUD	Density	Viscosity				
MUD	Fluid Loss	PH				
MUD	Source Of Sample					
RM @ Measured Temperature					@	
RMF @ Measured Temperature					@	
RMC @ Measured Temperature					@	
Source RMF	RMC					
RM @ MRT	RMF @ MRT		@		@	
Maximum Recorded Temperatures						
Circulation Stopped	Time					
Logger On Bottom	Time					
Unit Number	Location					
Recorded By						
Witnessed By						

DEPTH SUMMARY LISTING

Date Created: 22-JAN-2011 3:05:41

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-48A SUS
Serial Number:	5905	Serial Number:	1377	Serial Number:	7131
Calibration Date:	02-DEC-2010	Calibration Date:	06-JAN-2011	Length:	19900 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	625	Conveyance Method:	Wireline
Calibration Cable Type:	7-48A SUS	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-5	Calibration RMS:	7		
Wheel Correction 2:	-5	Calibration Peak Error:	14		

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	PLATFORM EXPRESS
Reference Log Run Number:	TWO
Reference Log Date:	31-DEC-2010
Subsequent Trip Down Log Correction:	

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES FOLLOWED.
2. IDW USED AS PRIMARY DEPTH REFERENCE, Z-CHART USED AS SECONDARY.
3.
4.
5.
6.

DISCLAIMER
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OTHER SERVICES1	OTHER SERVICES2
OS1: PEX	OS1:
OS2: ECS-HNGS	OS2:
OS3: XPT-UBI	OS3:
OS4: MSCT	OS4:
OS5: USIT	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
SUBSEQUENT TRIP TO WELL	
LOG CORRELATED TO PLATFORM EXPRESS	
DATED 31-DEC-2010 BY SCHLUMBERGER	

45DEG OFFSET RAN BETWEEN OBMIS

OBM RAN WITH 20 PAD PRESSURE

MATRIX: SANDSTONE DENSITY: 2.65 G/CC

TOTAL CHLORIDES = 41000 PPM

MAX TEMP = 301 DEGF AT 12898 FT FROM HSTS

PAD THREE ON OBMI 2 NOT FUNCTIONAL

RIG: H&P 236

CREW: H.BOJORQUEZ. A.PENA, J.CORONADO

THANK YOU FOR USING SCHLUMBERGER!

RUN 1		RUN 2	
SERVICE ORDER #:	AUYB-00233	SERVICE ORDER #:	
PROGRAM VERSION:	19C0-187	PROGRAM VERSION:	
FLUID LEVEL:		FLUID LEVEL:	

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

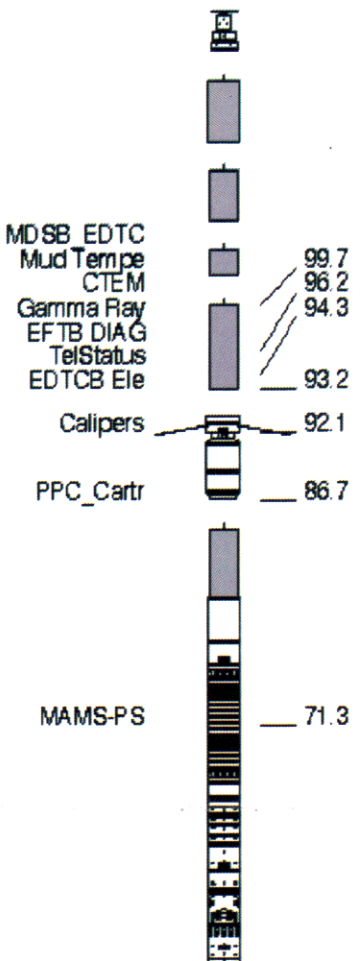
EQUIPMENT DESCRIPTION

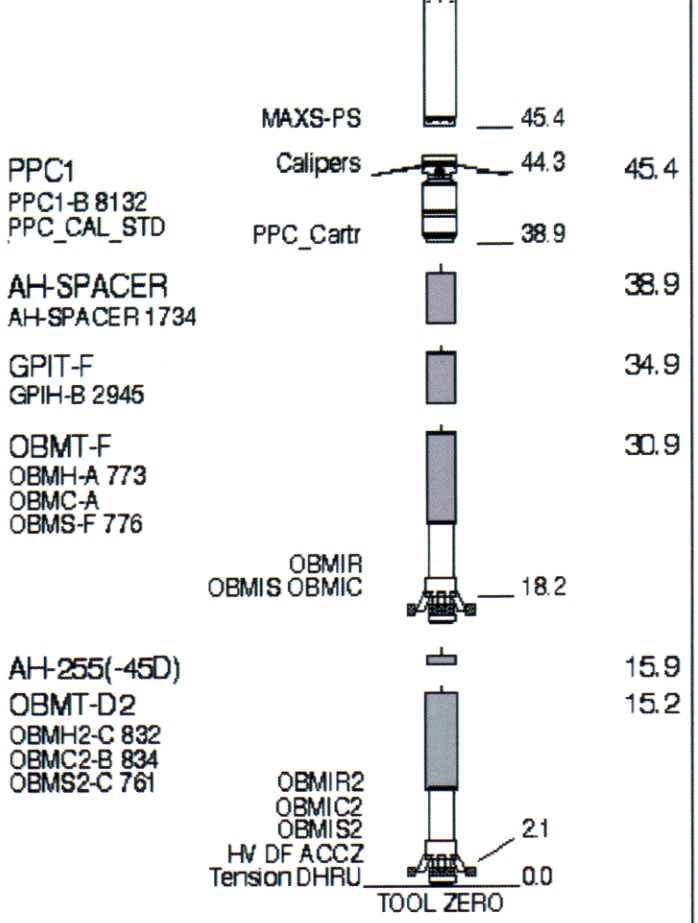
RUN 1 | RUN 2

SURFACE EQUIPMENT

WITM (EDTS)-A

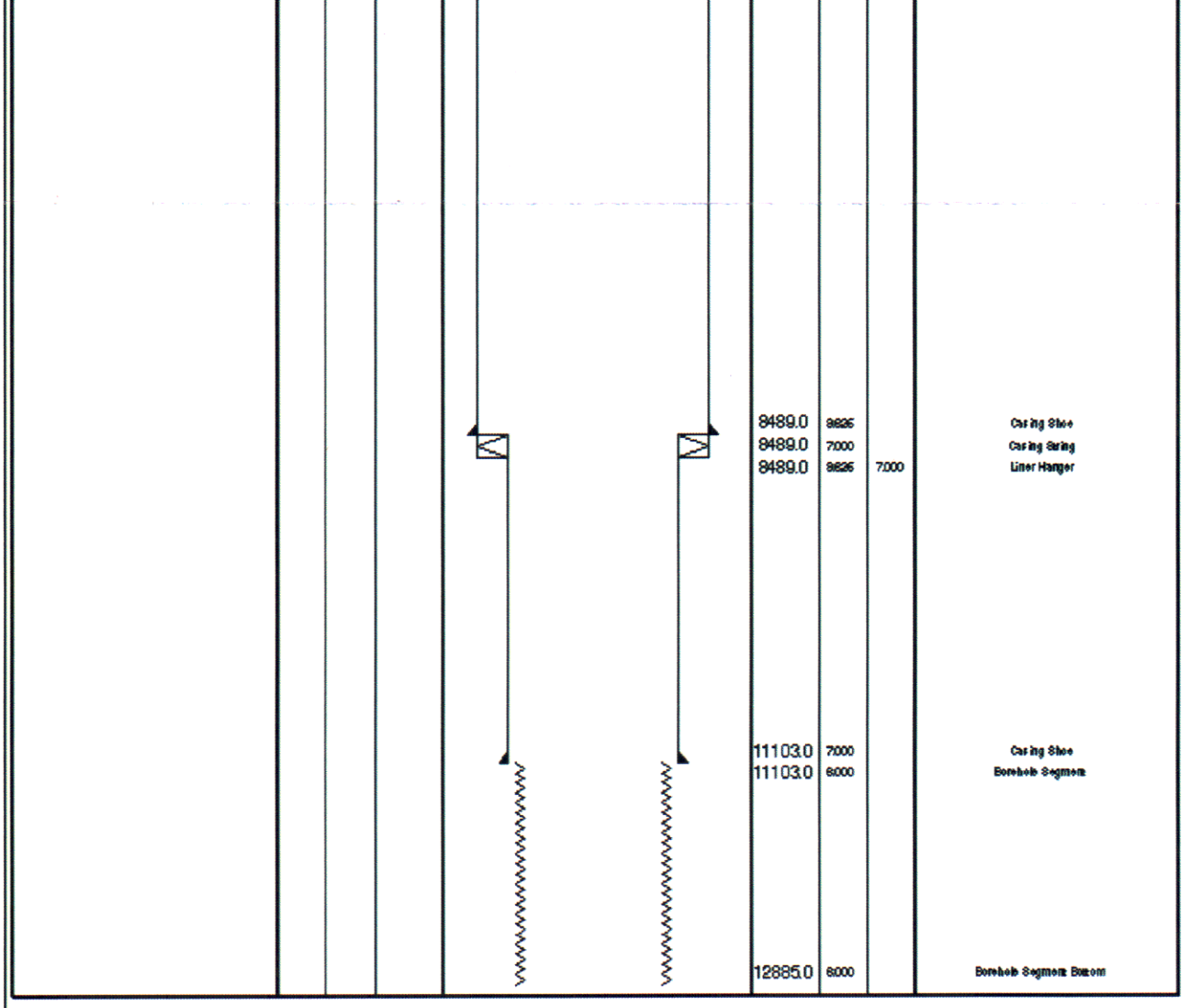
DOWNHOLE EQUIPMENT





MAXIMUM STRING DIAMETER 5.80 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Production String	(in) OD	(in) ID	(ft) MD	Well Schematic	(ft) MD	(in) OD	(in) ID	Casing String
					0.0	9625		Casing String



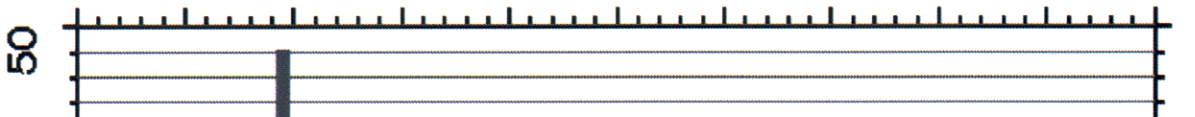
ALL DEPTHS ARE
DRILLERS DEPTHS

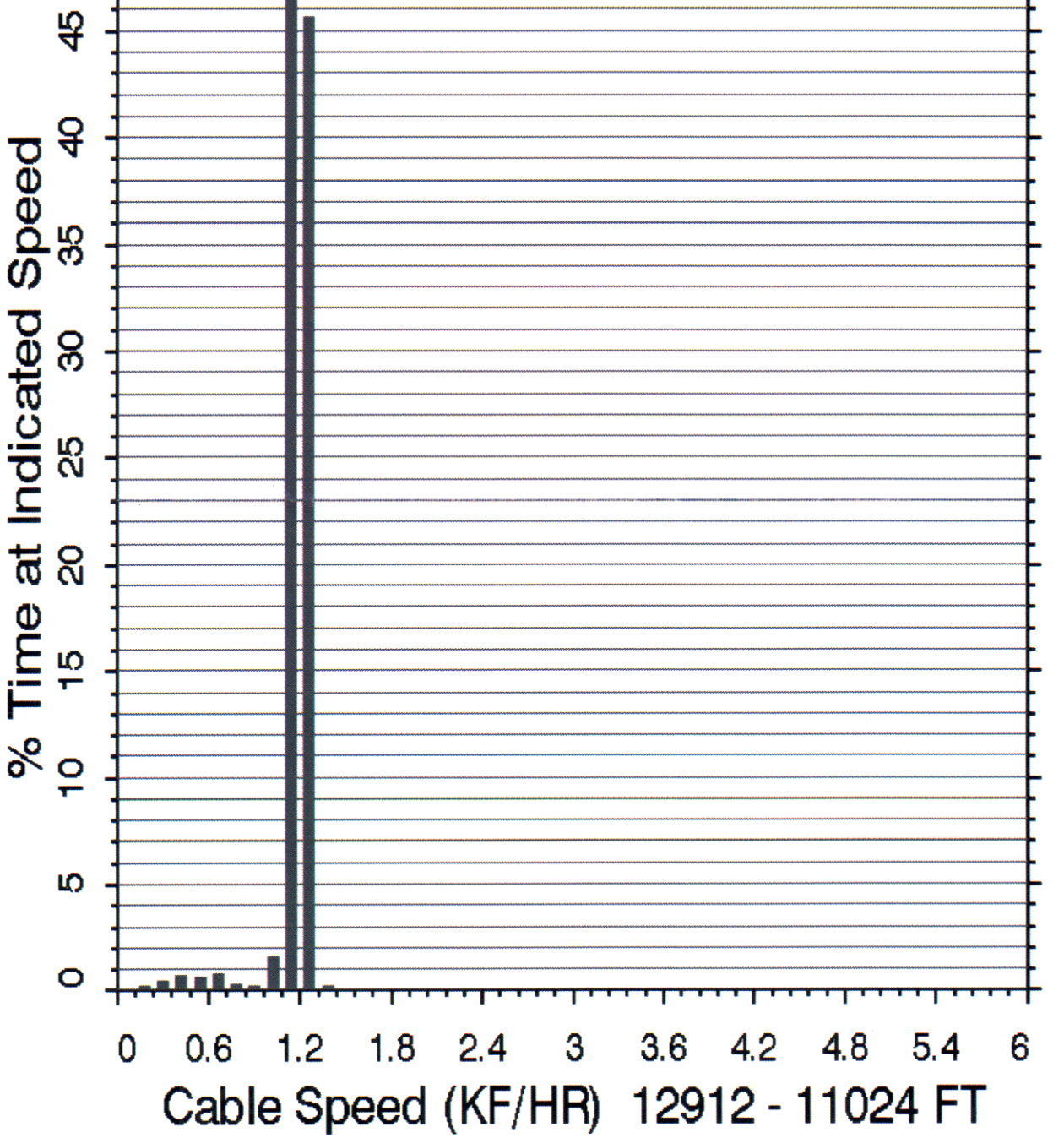
Schlumberger

CABLE SPEED HISTOGRAM

MAXIS Field Log

Sequence # 045 (Jan 22 07:30:54 2011)





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JOB EVENTS SUMMARY

MAXIS Field Log

Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (FT)	File
Circulation Stopped	20-Jan-2011 19:00			
Before Calibration Completed	21-Jan-2011 20:39			

Descent 1: AITM/HILTD/ECS/ECC-B/HNGC-B/HNGS-BA/EDTCB/LEHQT

Descent 1: AITH/HTEID/ECS/ECS-B/ECS-B/ECS-B/EDTCB/EEEQT

Begin Descent	21-Jan-2011 20:40				
Log Pass (down)	21-Jan-2011 20:43	001:42	97.5 - 12809.5	AIT_TLD_MCFL_CNL_016LDP	
Log Pass (up)	21-Jan-2011 22:43	000:18	12900.0 - 12546.2	AIT_TLD_MCFL_CNL_020LUP	
Log Pass (up)	21-Jan-2011 23:09	000:16	12847.5 - 12398.5	AIT_TLD_MCFL_CNL_022LUP	
Log Pass (up)	21-Jan-2011 23:37	000:60	12562.5 - 10795.5	TLD_MCFL_CNL_ECS_023LUP	
Log Pass (up)	22-Jan-2011 0:43	000:10	11542.5 - 11267.0	TLD_MCFL_CNL_ECS_024LUP	
Before Calibration Completed	22-Jan-2011 3:55				

Descent 2: OBMT-D2/OBMT-F/GPIT-F/PPC1/MAXS/MAPC/PPC2/EDTCB

Begin Descent	22-Jan-2011 4:00			
Log Pass (up)	22-Jan-2011 5:45	001:45	12912.0 - 11023.0	OBMI_IS_CAL_MAXS_045LUP
Log Pass (up)	22-Jan-2011 7:35	000:23	11438.0 - 11045.0	OBMI_IS_CAL_MAXS_046LUP

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OBMI ONE FIELD IMAGE

MAXIS Field Log

Company: OXY US LA BASIN **Well: DOM-001**

Input DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

Output DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT

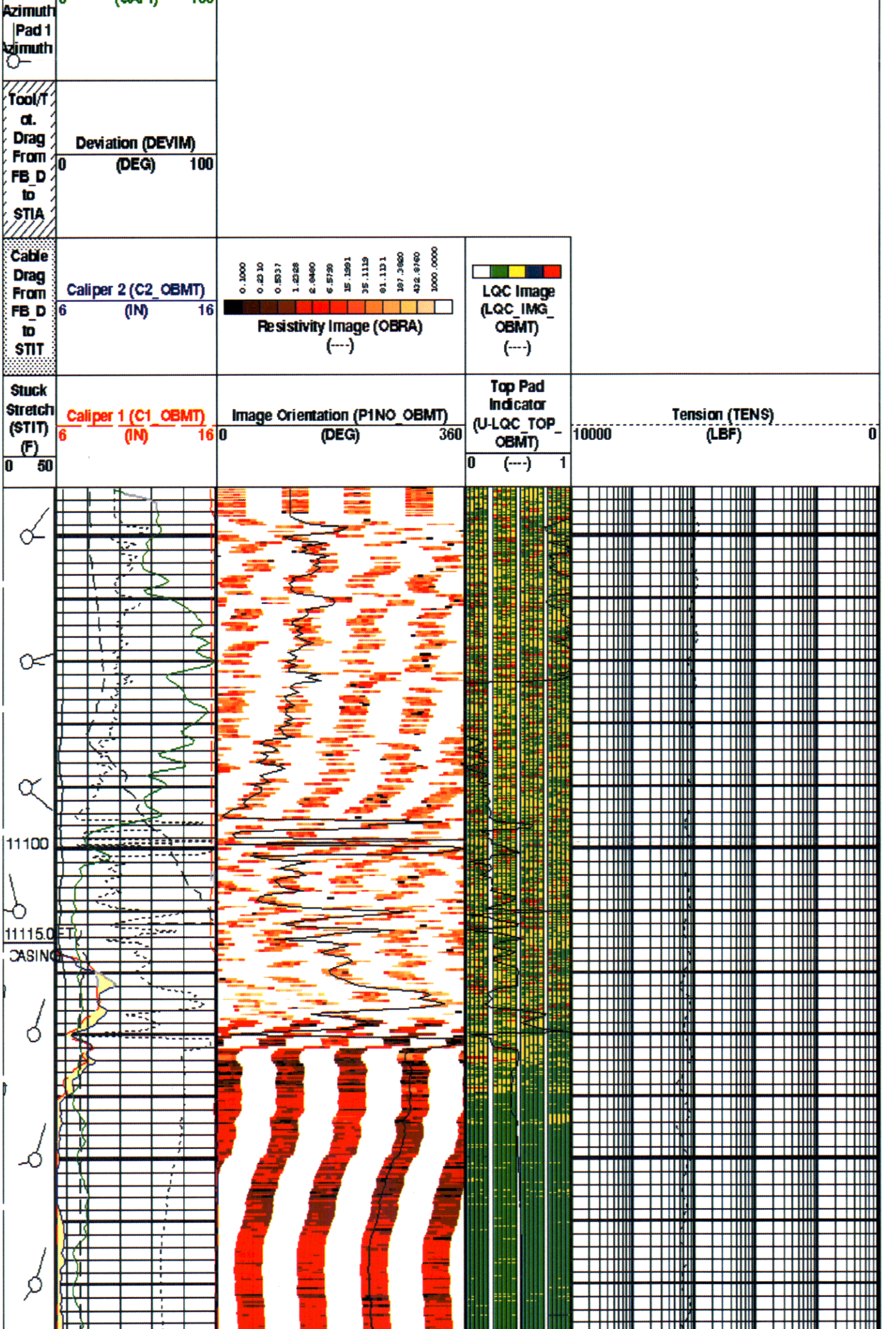
OP System Version: 19C0-187

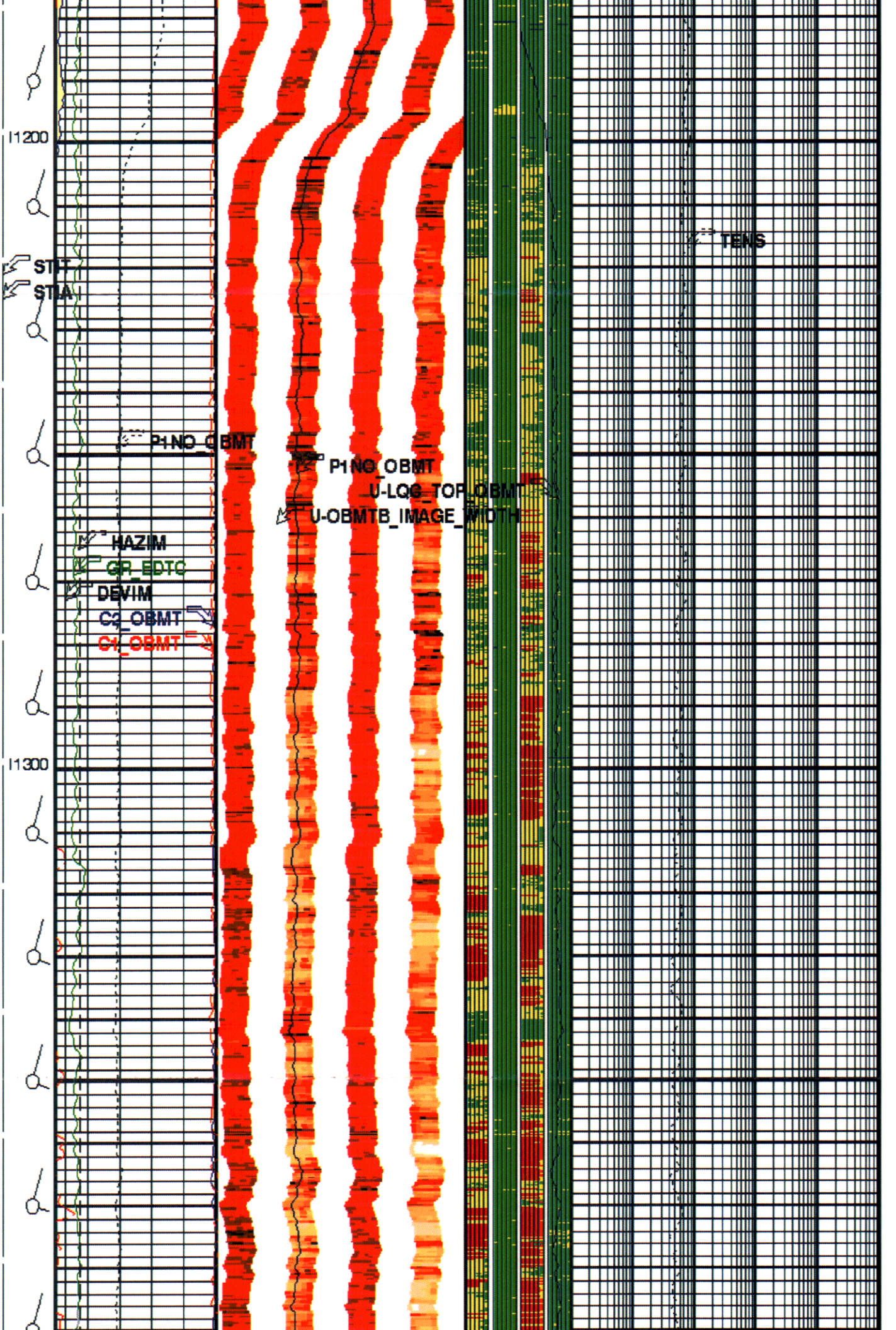
OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

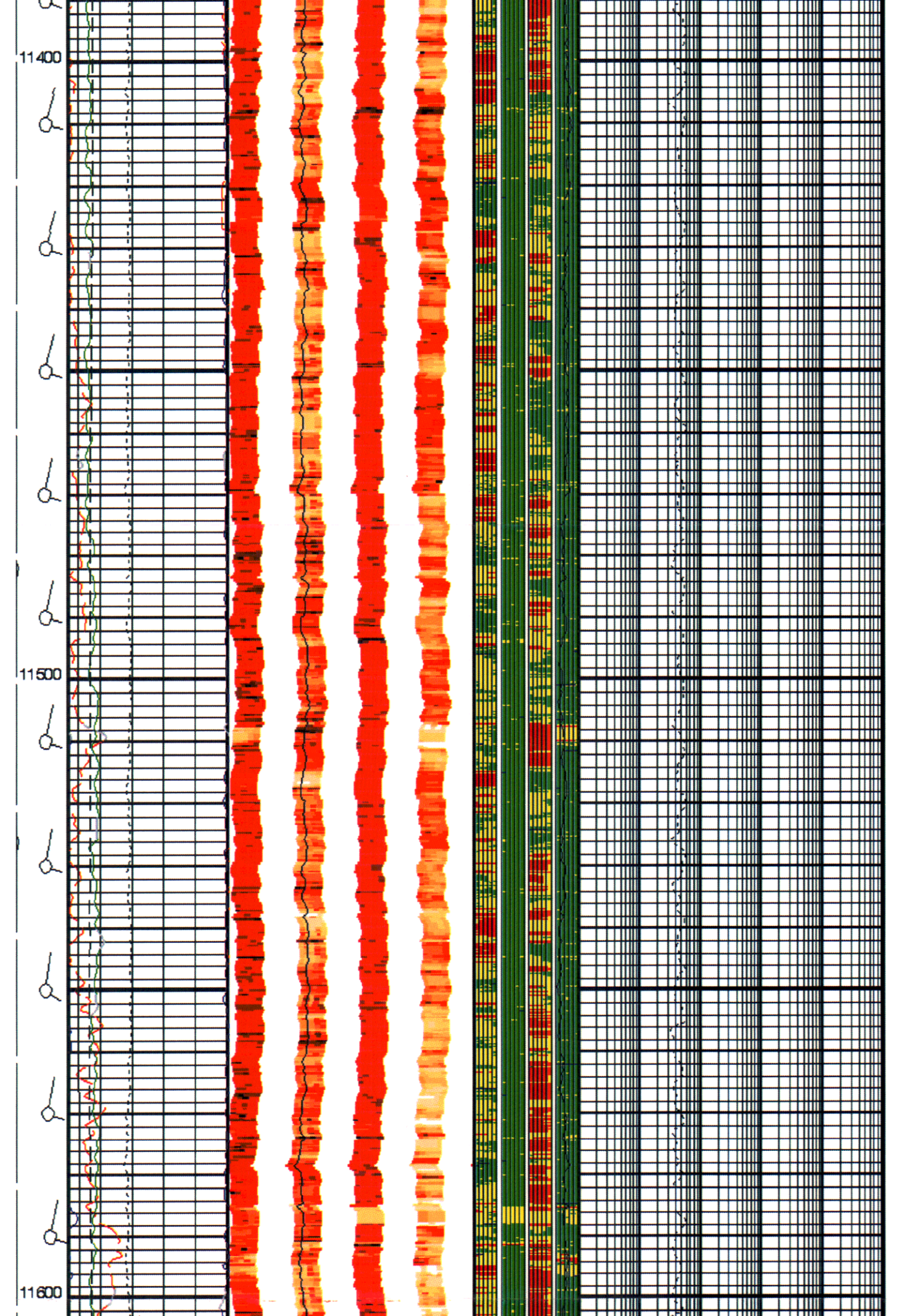
PIP SUMMARY

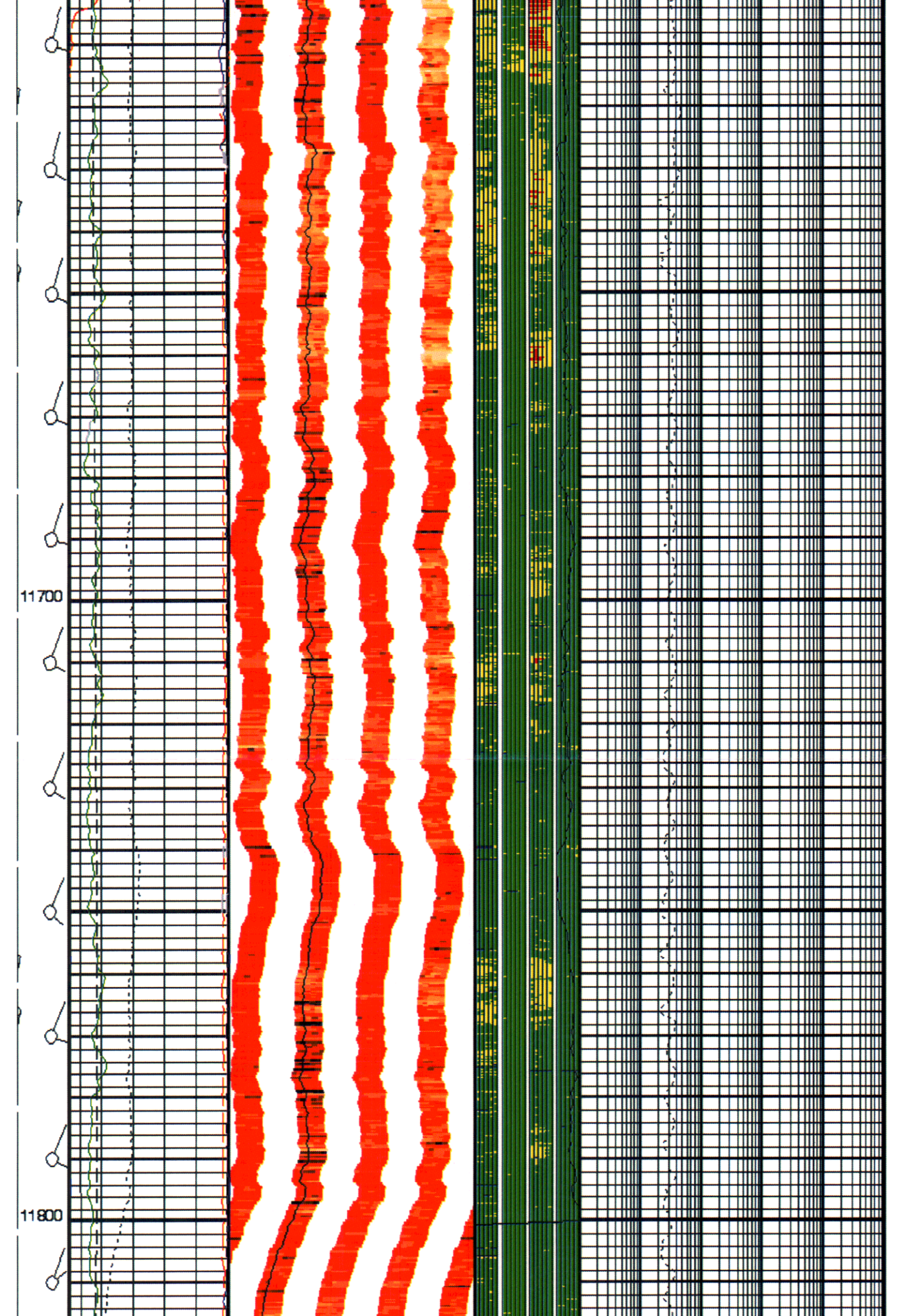
Time Mark Every 60 S

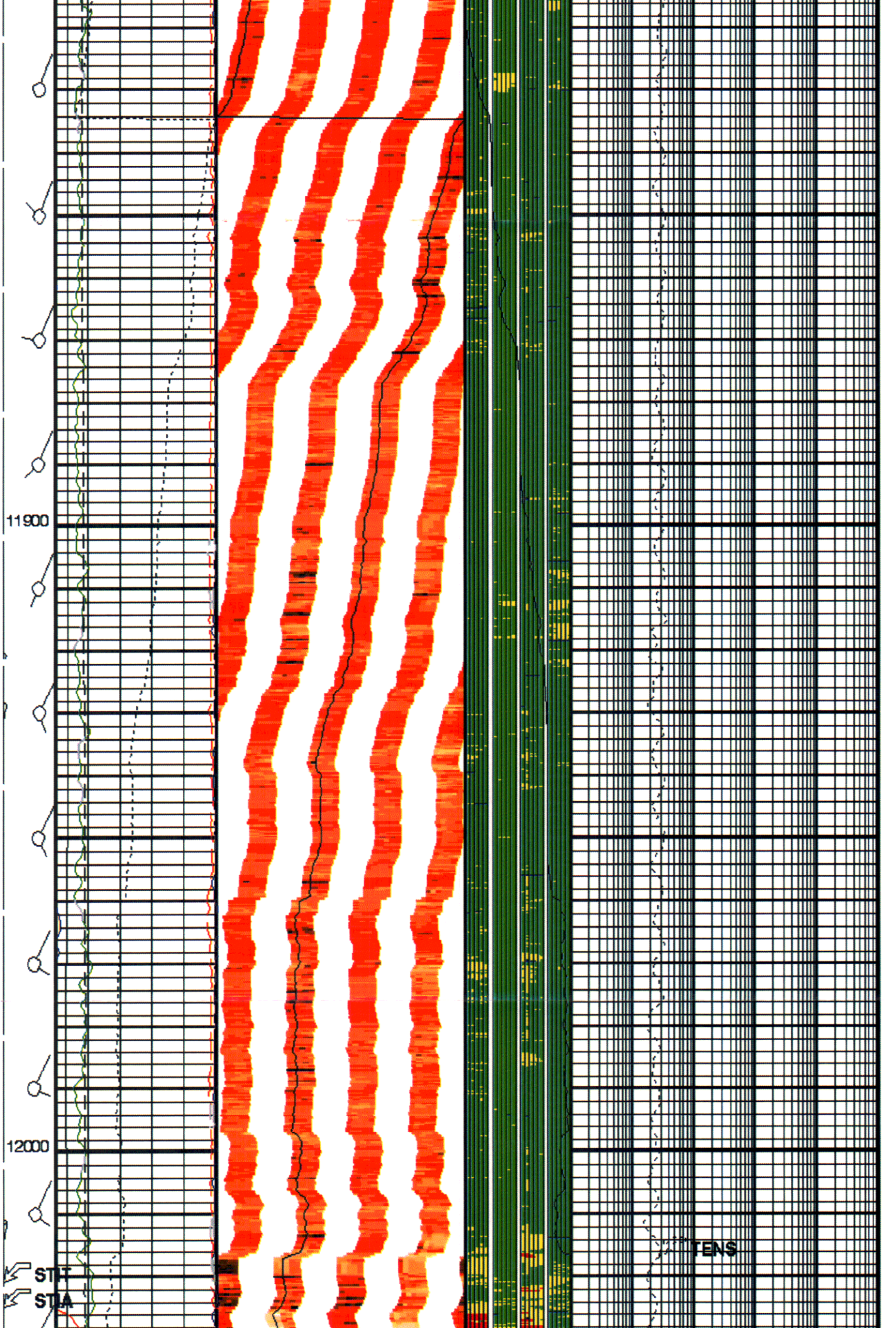
	Pad One Azimuth (P1NO_OBMT) -40 (DEG) 360
	Hole Azimuth (HAZIM) -40 (DEG) 360
BHDrift (BHDrif θ) (DEG) 0 10	Gamma Ray (GR_EDTC) 0 (GAPI) 150
Hole	

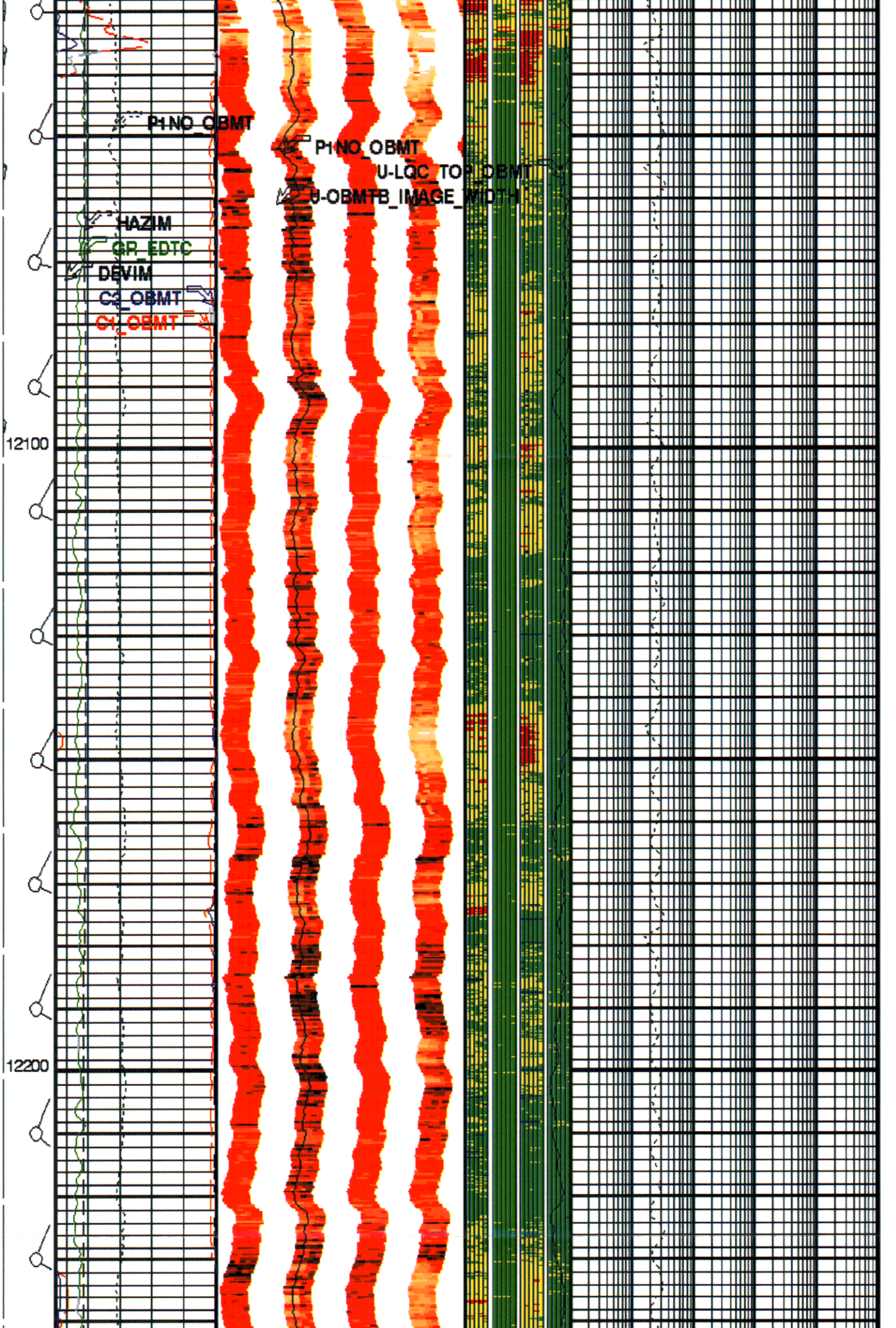

Azimuth
Pad 1
Azimuth
Tool/T
ot.
Drag
From
FB_D
to
STIA
Deviation (DEVIM)
0 (DEG) 100
Cable
Drag
From
FB_D
to
STIT
Caliper 2 (C2_OBMT)
6 (IN) 16
0.1000
0.2310
0.5337
1.2328
2.8480
6.5739
15.1891
35.1119
81.1131
187.3620
432.8760
1000.0000
Resistivity Image (OBRA)
(---)
LQC Image
(LQC_IMG_
OBMT)
(---)
Stuck
Stretch
(STIT)
(F)
0 50
Caliper 1 (C1_OBMT)
6 (IN) 16
Image Orientation (P1NO_OBMT)
0 (DEG) 360
Top Pad
Indicator
(U-LQC_TOP_
OBMT)
0 (---) 1
Tension (TENS)
10000 (LBF) 0
11100
11115.0
CASING

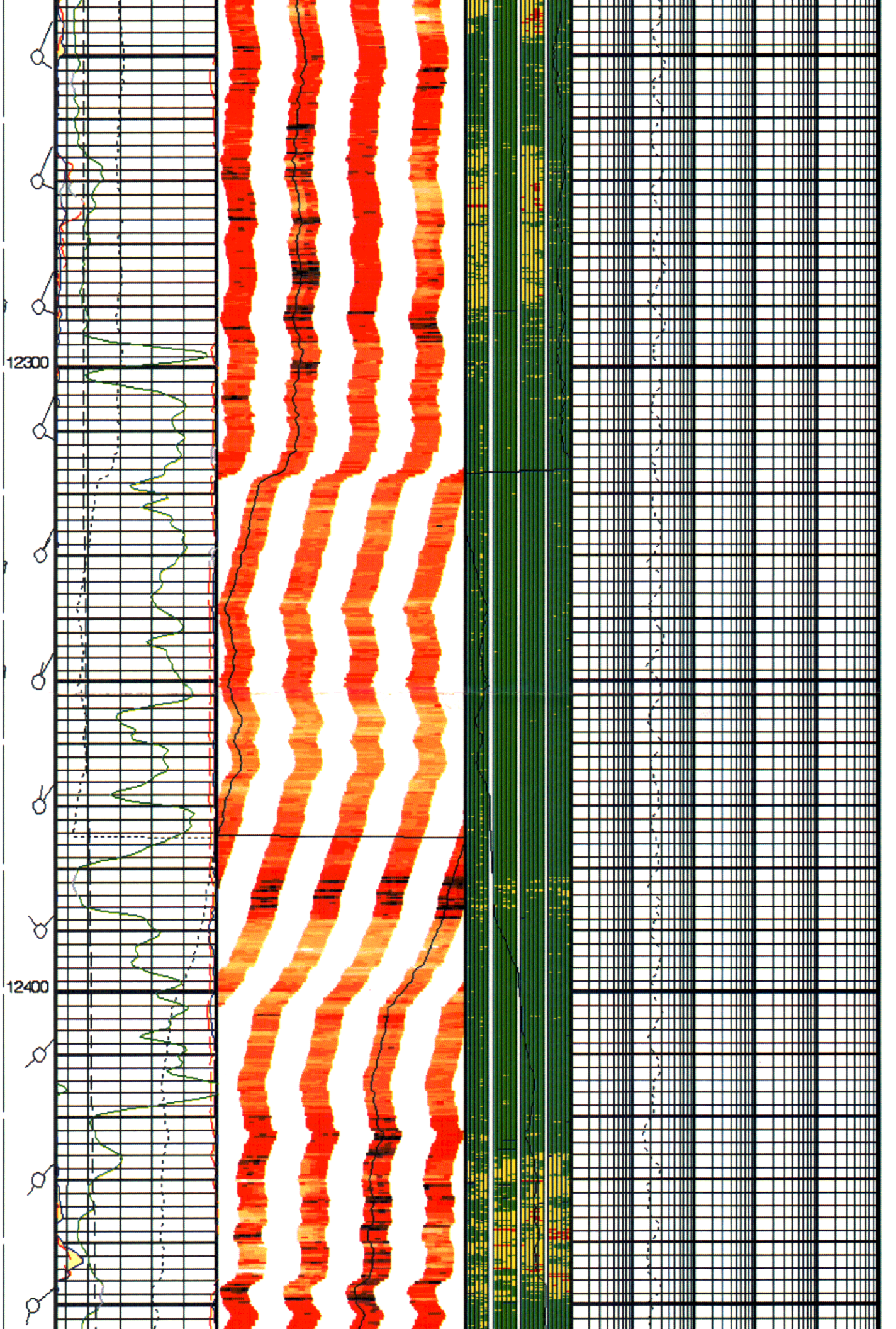

11200
11300
STIT
STIA
TENS
P1NO_OBMT
P1NO_OBMT
U-LQG_TOP_OBMT
U-OBMTB_IMAGE_WIDTH
HAZIM
GR_EDTC
DEVIM
C2_OBMT
C1_OBMT

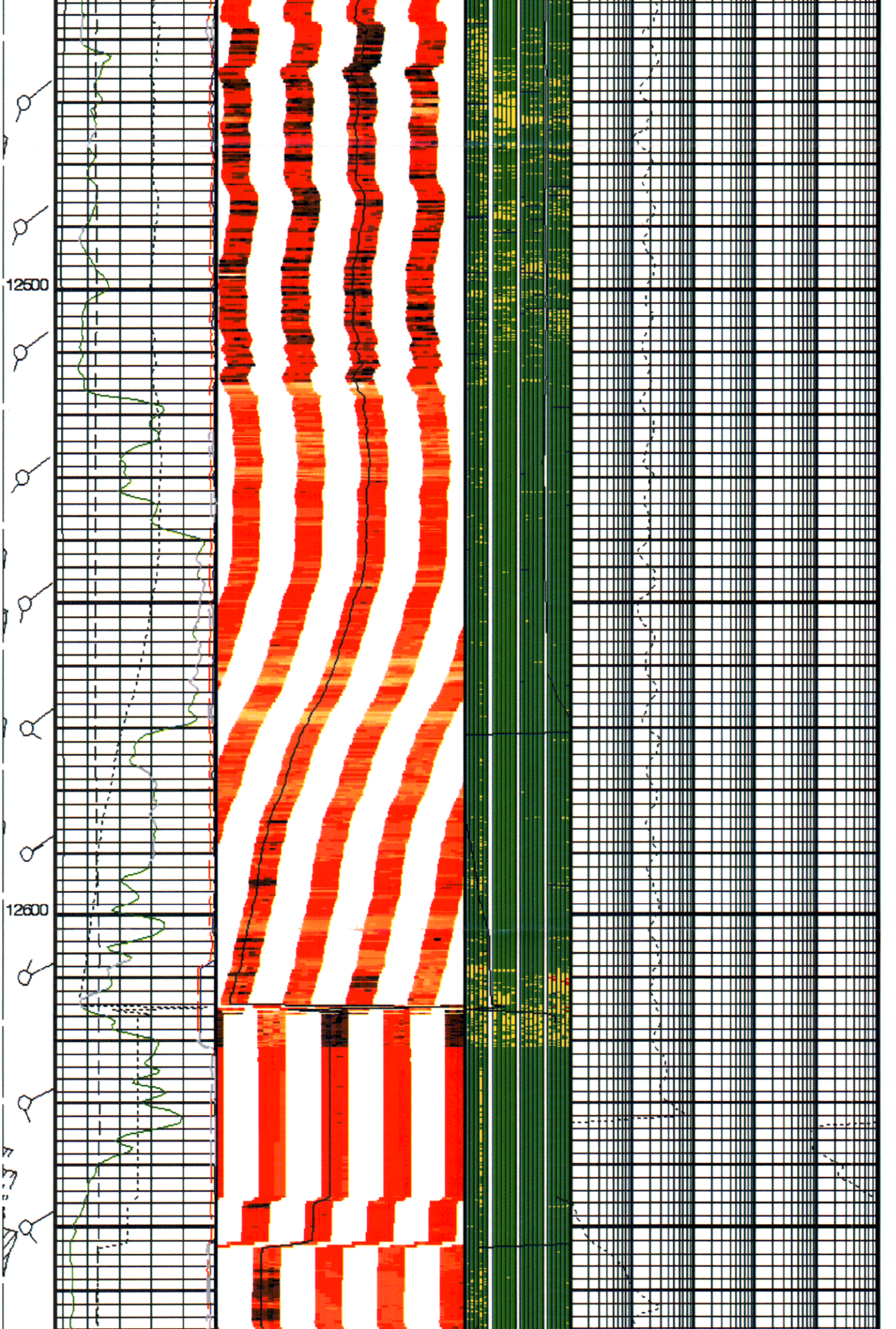

11400
11500
11600

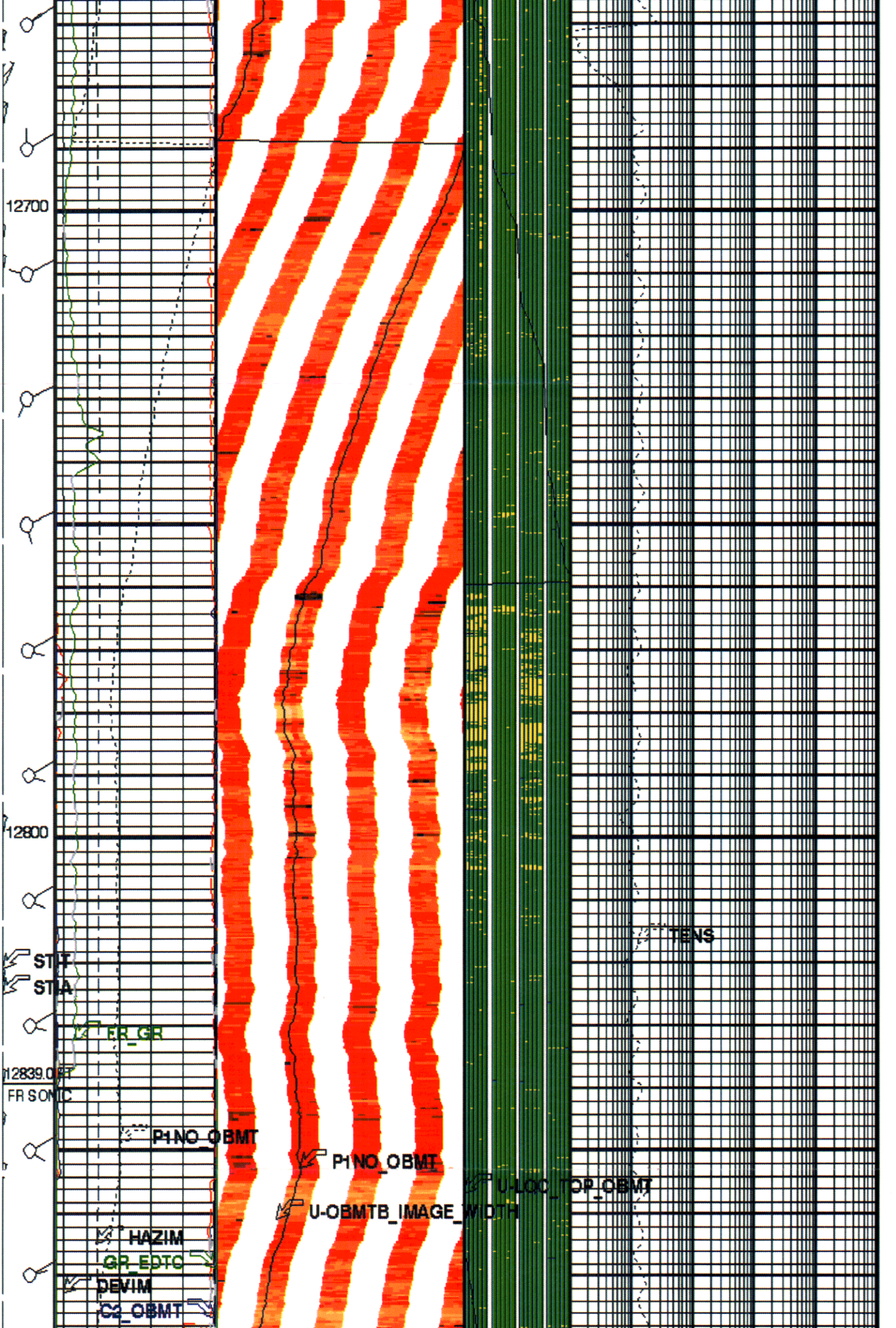

11700
11800

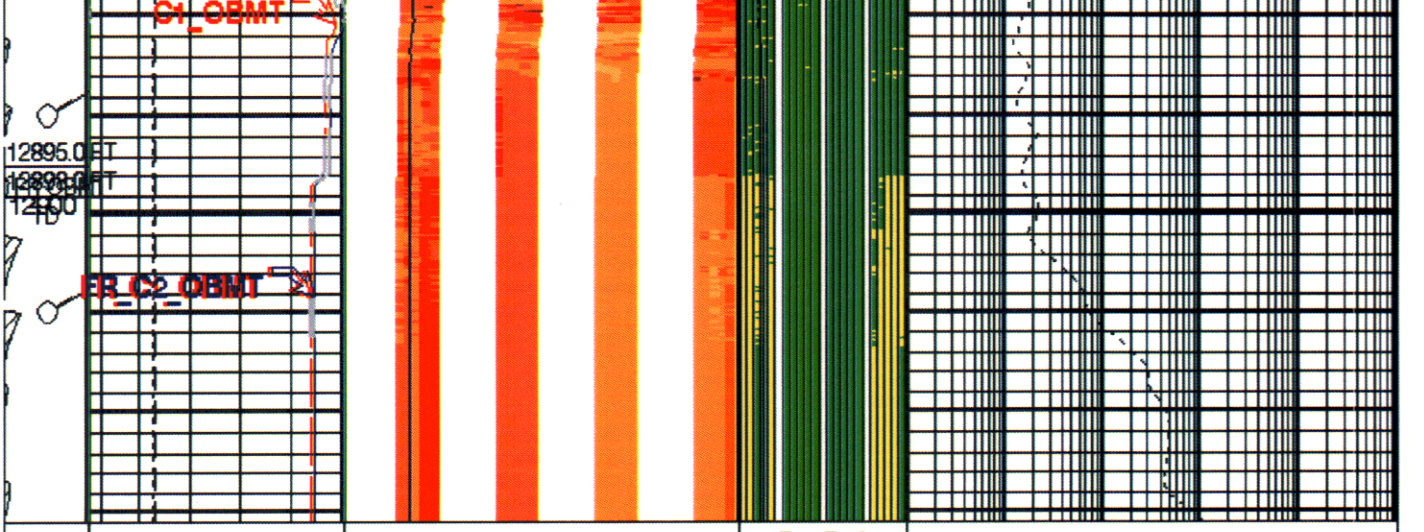

11900
12000
STIT
STIA
TENS


P1NO_OBMT
P1NO_OBMT
U-LQC_TOP_OBMT
U-OBMTB_IMAGE_WIDTH
HAZIM
GR_EDTC
DEVIM
C2_OBMT
C1_OBMT
12100
12200


12300
12400


12500
12600


12700
12800
STIT
STIA
FR_GR
12839.0FT
FR SONIC
P1NO_OBMT
P1NO_OBMT
U-LOC_TOP_OBMT
U-OBMTB_IMAGE_WIDTH
HAZIM
GR_EDTC
DEVIM
C2_OBMT
TENS



Stuck Stretch (STIT) (F) 0 50	Caliper 1 (C1_OBMT) 6 (IN) 16	Image Orientation (P1NO_OBMT) 0 (DEG) 360	Top Pad Indicator (U-LQC_TOP_OBMT) 0 (---) 1	Tension (TENS) 10000 (LBF) 0
Cable Drag From FB_D to STIT	Caliper 2 (C2_OBMT) 6 (IN) 16	0.1000 0.2230 0.5537 1.2328 2.8490 6.5799 15.1991 35.1119 81.1131 187.3680 432.9760 1000.0000 Resistivity Image (OBRA) (---)	LQC Image (LQC_IMG_OBMT) (---)	
Tool/Tot. Drag From FB_D to STIA	Deviation (DEVIM) 0 (DEG) 100			
BHDrift (BHDrift) (DEG) 0 10 Hole Azimuth Pad 1 Azimuth	Gamma Ray (GR_EDTC) 0 (GAPI) 150			
	Hole Azimuth (HAZIM) -40 (DEG) 360			
	Pad One Azimuth (P1NO_OBMT) -40 (DEG) 360			

PIP SUMMARY

Time Mark Every 60 S

*** Flag Track ***

GREEN = OK YELLOW = POOR SIGNAL BLUE = SATURATION RED = LIFT_OFF

left to right:

Pad A buttons 1 to 5

Pad B buttons 1 to 5

Pad C buttons 1 to 5

Pad D buttons 1 to 5

OBMI Image.

Image with no processing applied

! Resistive (White) to Conductive (Black) !

Format: OBMTB_BS_WRAP_BY_P1NO Vertical Scale: 5" per 100' Graphics File Created: 22-Jan-2011 08:11

OP System Version: 19C0-187

OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

Parameters

DLIS Name	Description	Value	
	OBMT-F: Slim Thru-wired Oil Base Mud Formation Imager Tool F		
OBFR	OBMT Frame Rate	1800_FPH	
OBKF	OBMT K Factor	8	M
OBSM	Downhole Injection Switched Mode	ON	
ODCLA	OBMT Downhole Algorithm	MAX2_AUTO	
OIAE	Pad A Enable	YES	
OIBE	Pad B Enable	YES	
OICE	Pad C Enable	YES	
OICLM	Injection Control Loop Mode	DOWNHOLE_AUTO	
OIDE	Pad D Enable	YES	
OIMAX	Injection Maximum Voltage	334	V
OIVA	Injection Amplitude PAD A (Manual Selection)	0	V
OIVB	Injection Amplitude PAD B (Manual Selection)	0	V
OIVC	Injection Amplitude PAD C (Manual Selection)	0	V
OIVD	Injection Amplitude PAD D (Manual Selection)	0	V
OPGA	Electronic Gain PAD A (Manual Selection)	0_dB	
OPGB	Electronic Gain PAD B (Manual Selection)	0_dB	
OPGC	Electronic Gain PAD C (Manual Selection)	0_dB	
OPGD	Electronic Gain PAD D (Manual Selection)	0_dB	
OZLA	OBMT Pad A Leakage Impedance	1600	KOHM
OZLB	OBMT Pad B Leakage Impedance	1600	KOHM
OZLC	OBMT Pad C Leakage Impedance	1600	KOHM
OZLD	OBMT Pad D Leakage Impedance	1600	KOHM
SOFF	OBMT Standoff Fin Size	0	IN
	GPIT-F: General Purpose Inclinometer		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	12.5935	DEG
	MAPC-B: Multimode Array Sonic Power Cartridge		
BS	Bit Size	6.000	IN
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT
TIVD	TVD of Tie-in Point	0	FT
	STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	12885.00	FT
TDL	Total Depth - Logger	12894.00	FT
	System and Miscellaneous		
DO	Depth Offset for Playback	19.0	FT
PP	Playback Processing	OFF	

Input DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

Output DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11

Schlumberger

OBMI TWO FIELD IMAGE

MAXIS Field Log

Company: OXY US LA BASIN | Well: DOM-001

Input DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

Output DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT

OP System Version: 19C0-187

OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

PIP SUMMARY

Time Mark Every 60 S

Pad One Azimuth (P1NO_OBMT_2)
-40 (DEG) 360

Hole Azimuth (HAZIM)
-40 (DEG) 360

BHDrift (BHDrift) (DEG)
0 10

Hole Azimuth
Pad 1 Azimuth

Gamma Ray (GR_EDTC)
0 (GAPI) 150

Tool/Tot. Drag From FB_D_2 to STIA

Deviation (DEVIM)
0 (DEG) 100

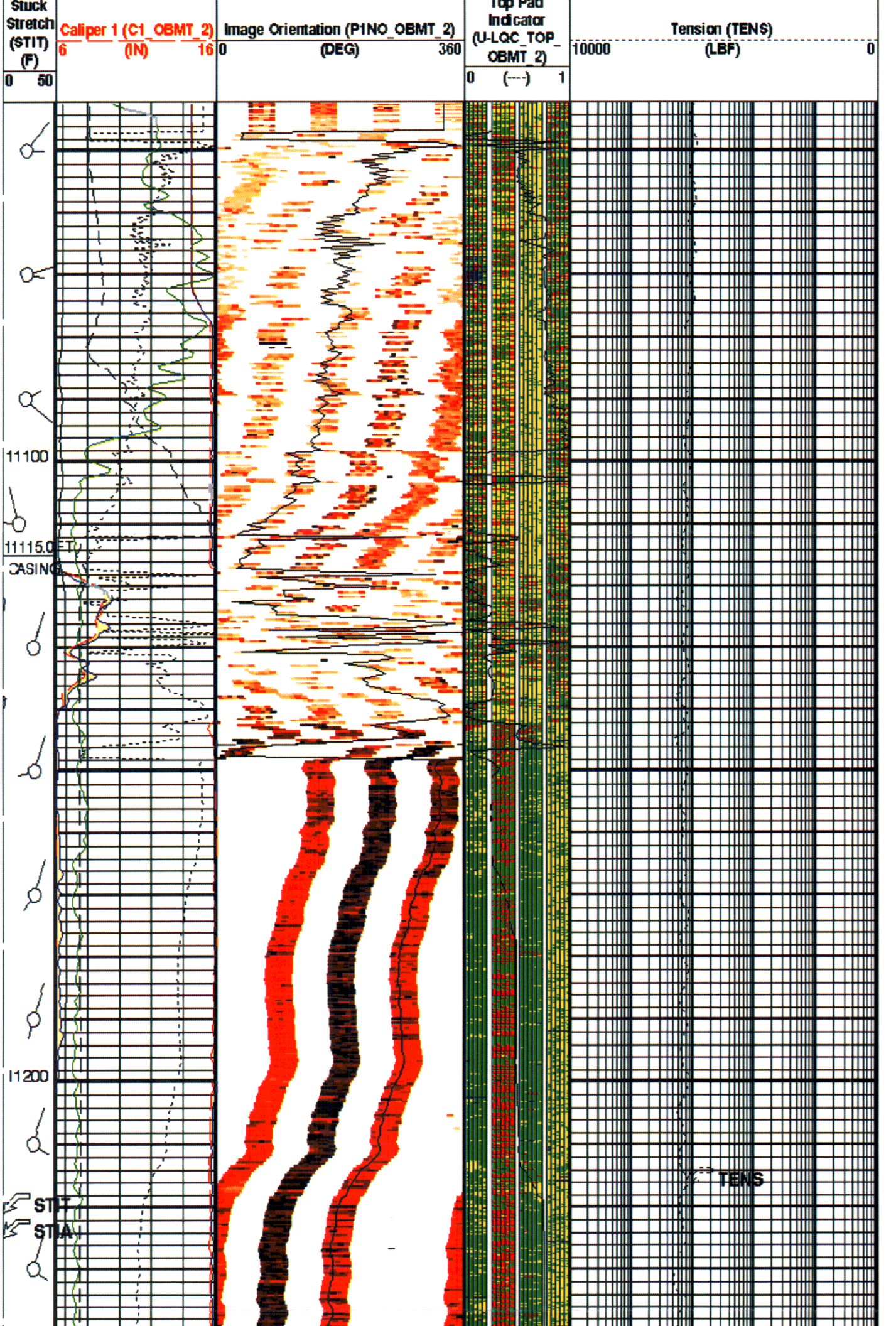
Cable Drag From FB_D_2 to STIT

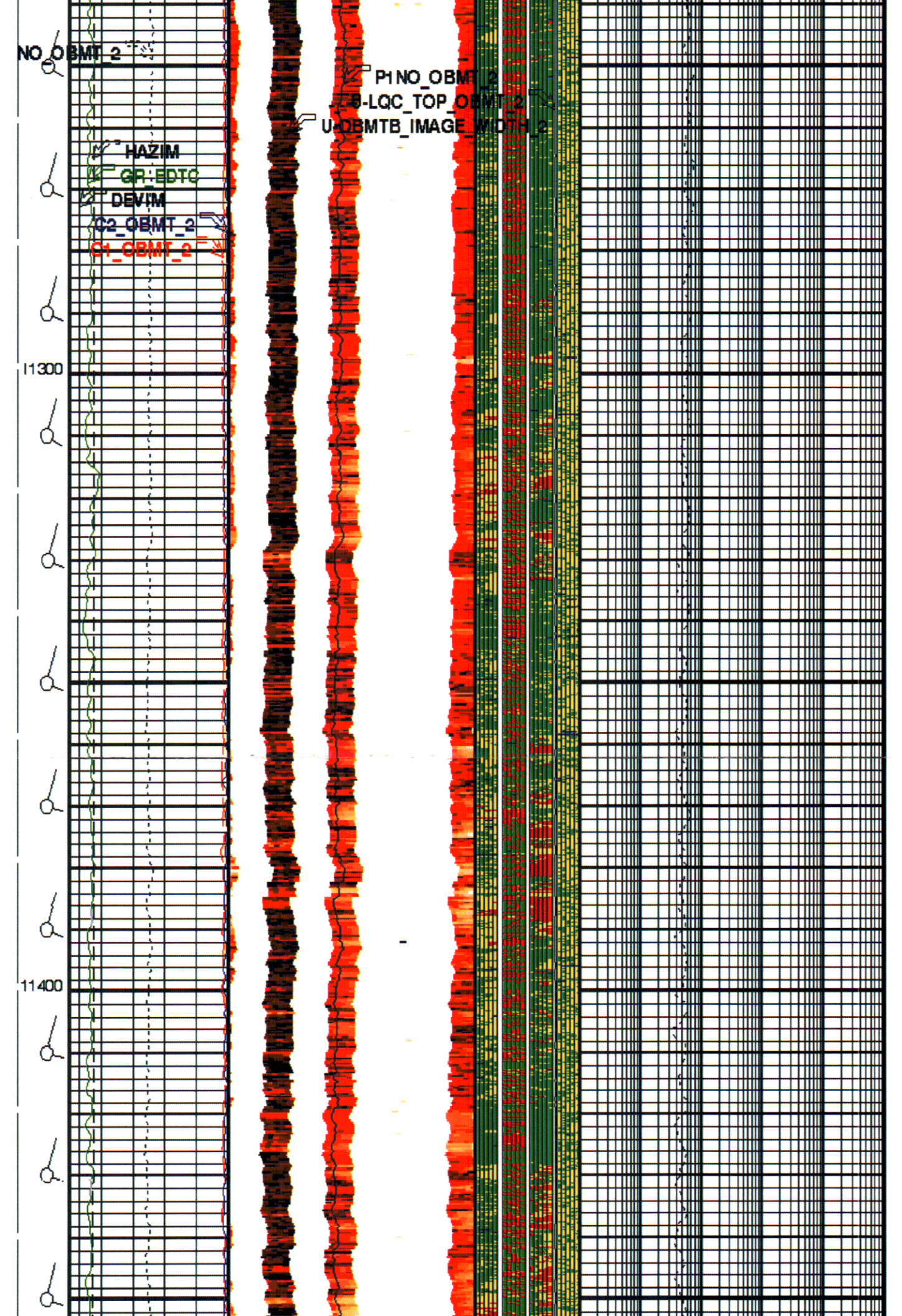
Caliper 2 (C2_OBMT_2)
6 (IN) 16

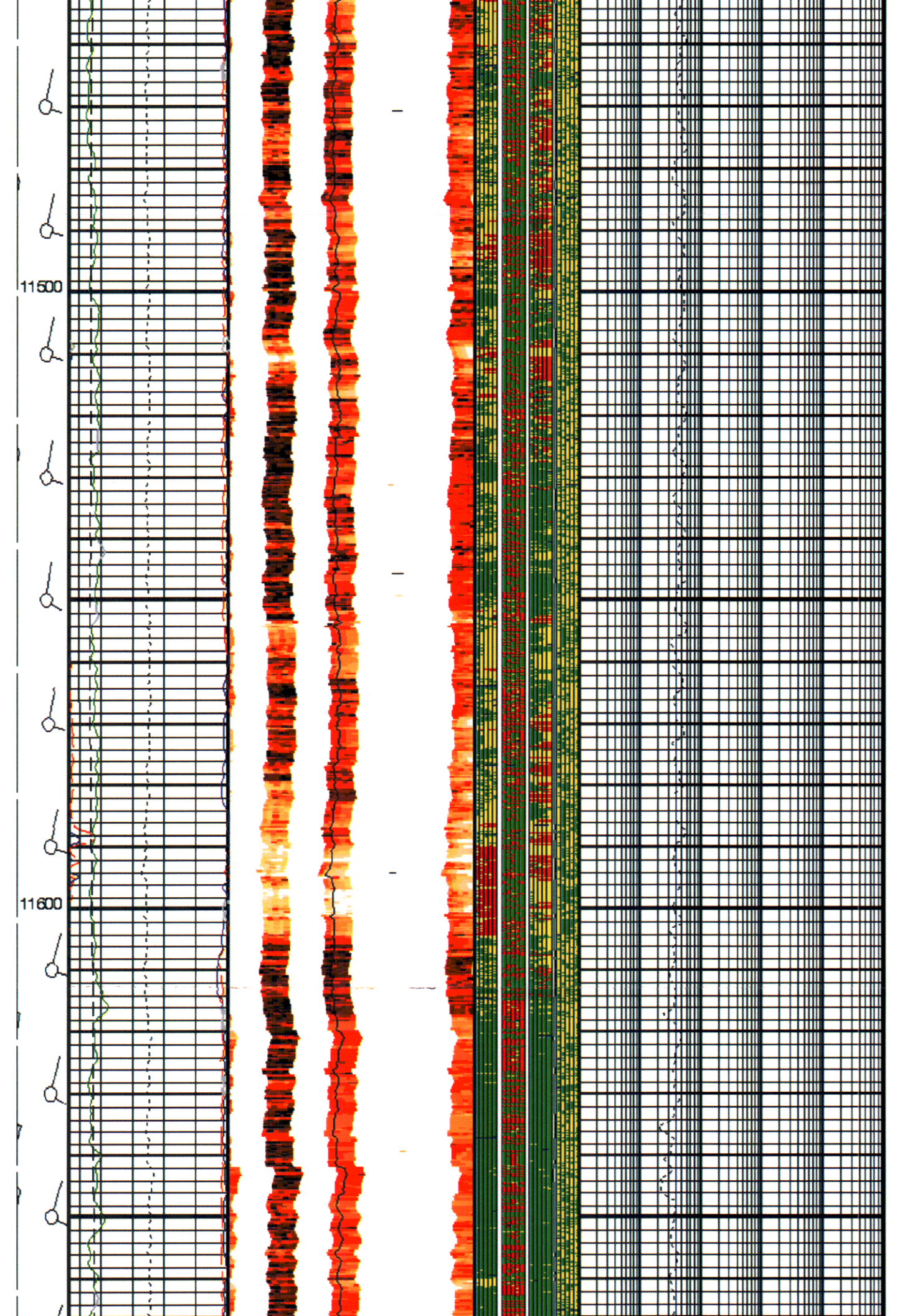
0.1000 0.2510 0.5537 1.2528 2.8480 6.5730 15.1591 35.1119 81.1131 187.3680 432.8760 1000.0000

Resistivity Image (OBRA_2)
(---)

LQC Image (LQC_IMG_OBMT_2)
(---)


Stuck Stretch (STIT) (F)
0 50
Caliper 1 (C1_OBMT_2)
6 (IN) 16
Image Orientation (P1NO_OBMT_2)
0 (DEG) 360
Top Pad Indicator (U-LQC_TOP_OBMT_2)
0 (---) 1
Tension (TENS)
10000 (LBF) 0
11100
11115.0 FT
CASING
11200
STIT
STIA
TENS


NO_OBMT_2
PI NO_OBMT_2
B-LQC_TOP_OBMT_2
U-OBMTB_IMAGE_WIDTH_2
HAZIM
GR:EDTC
DEVIM
C2_OBMT_2
C1_OBMT_2
11300
11400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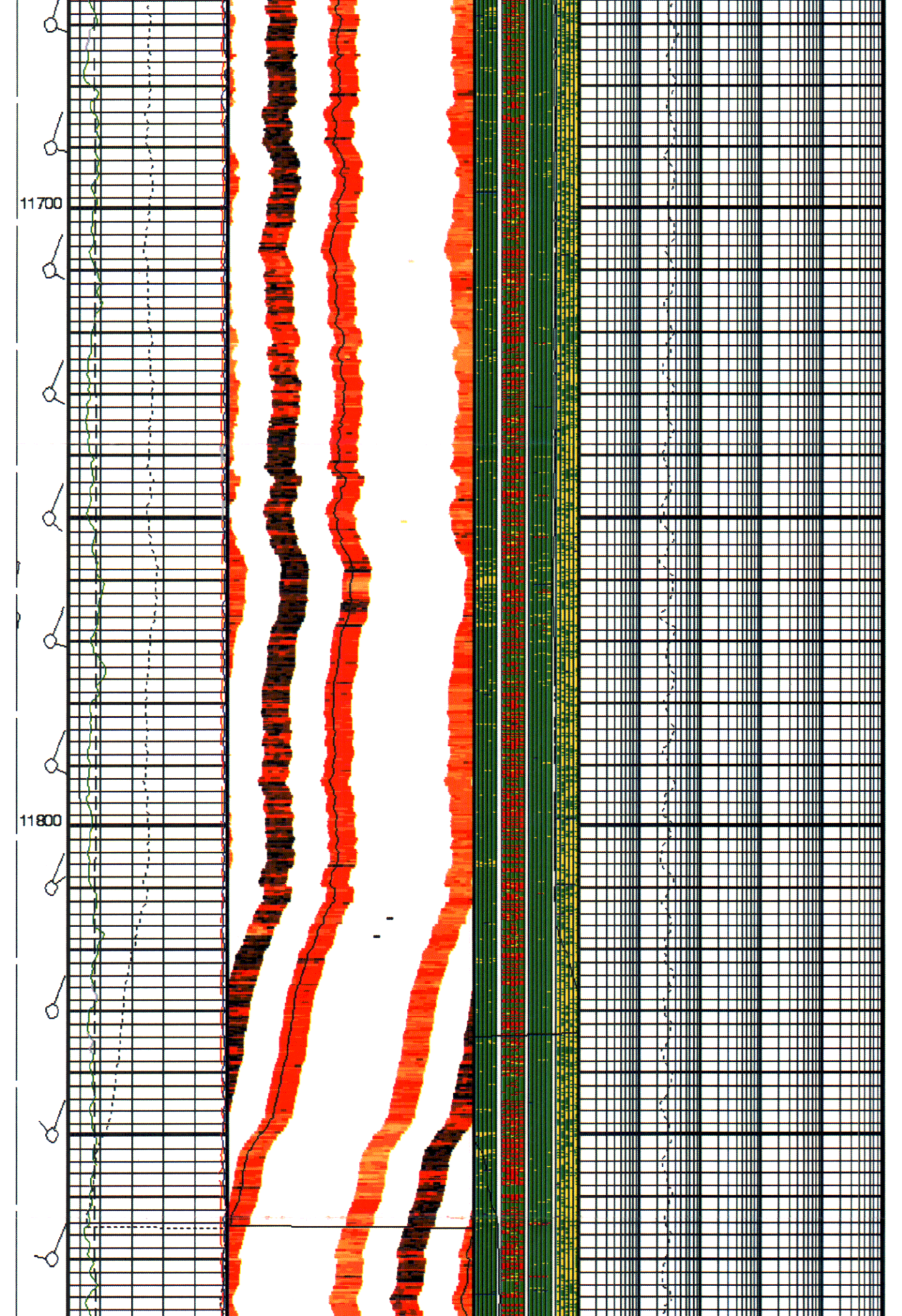
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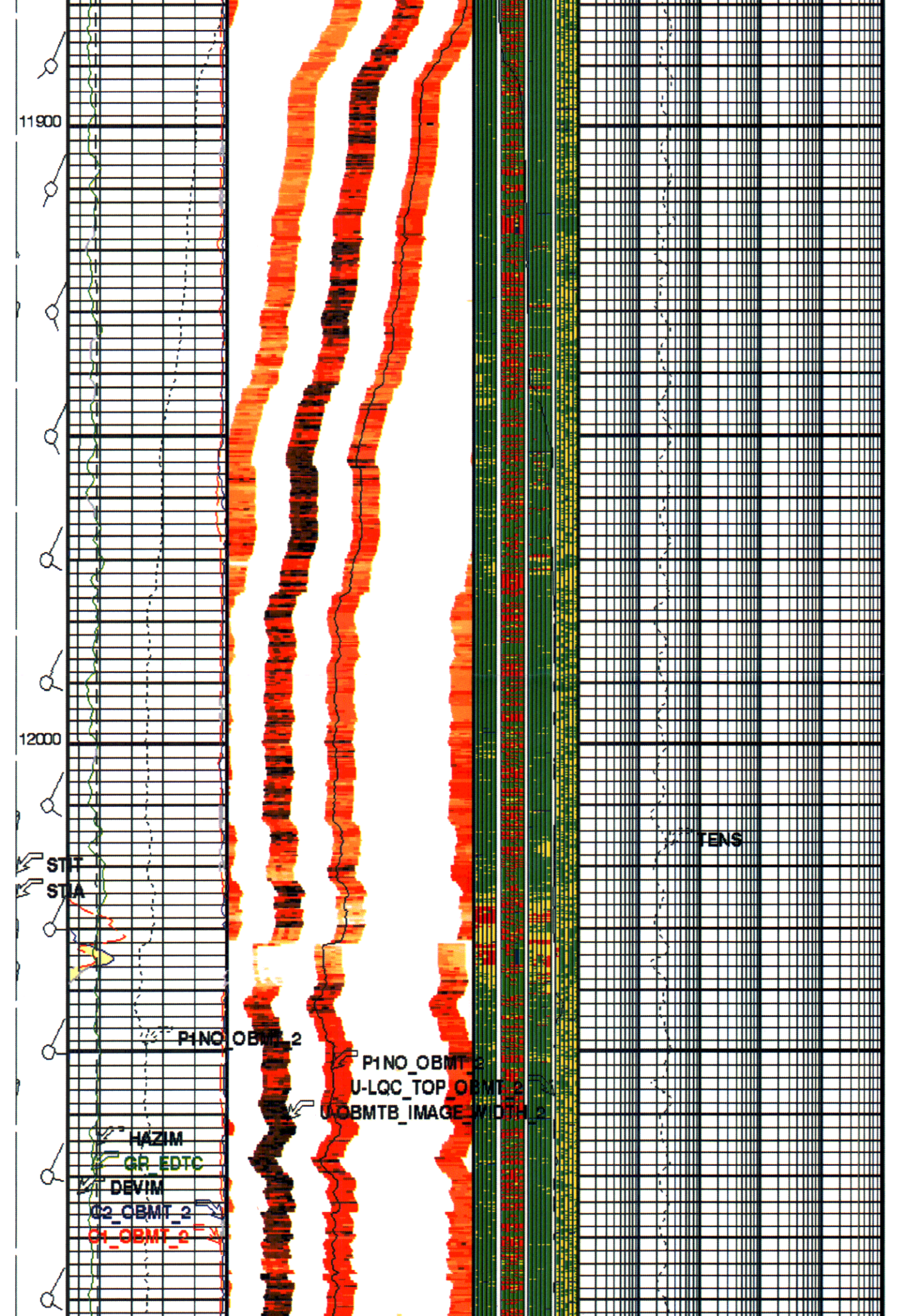
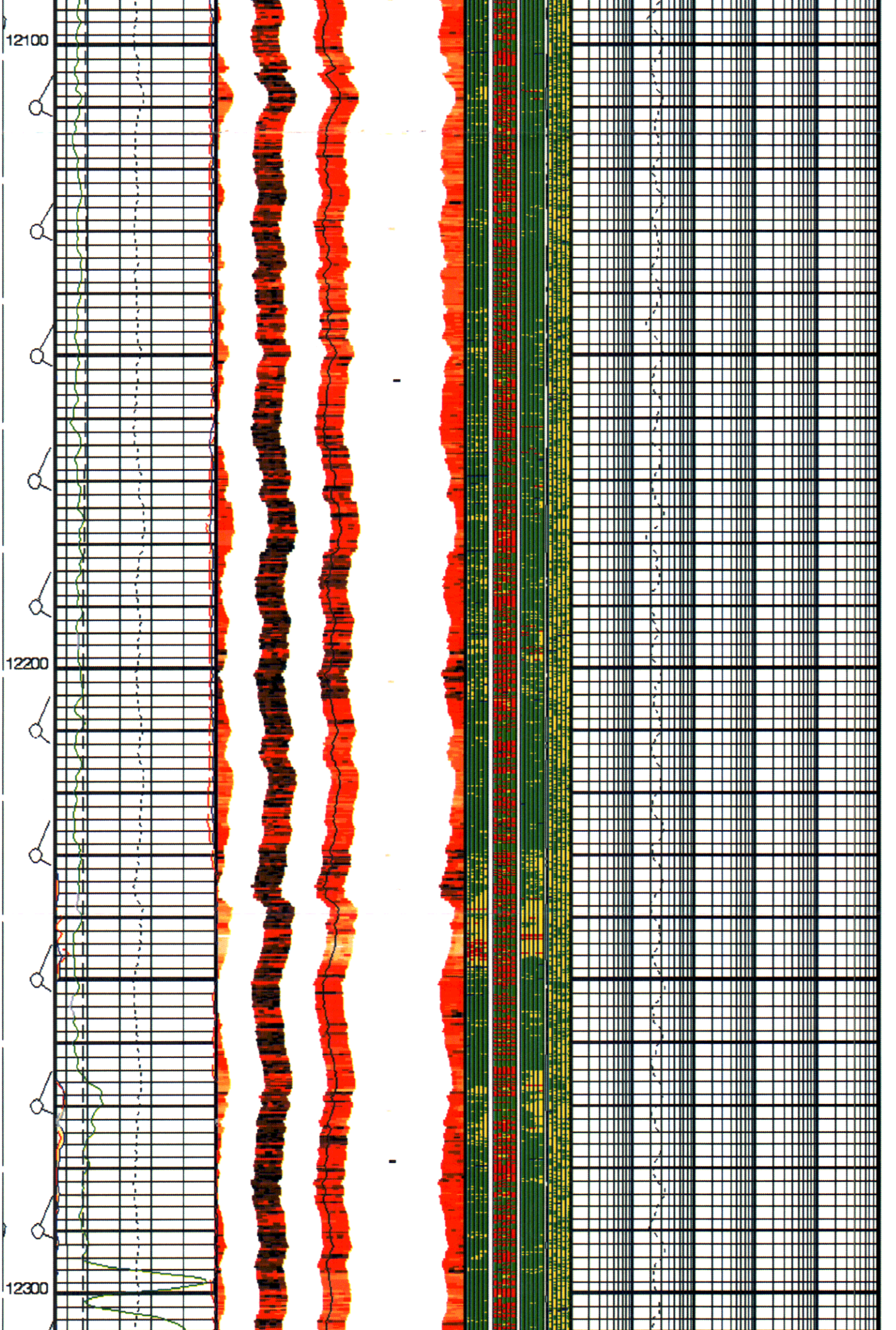

11900
12000
STIT
STIA
TENS
P1NO_OBMT_2
P1NO_OBMT_2
U-LQC_TOP_OBMT_2
U-OBMTB_IMAGE_WIDTH_2
HAZIM
GR_EDTC
DEVIM
C2_OBMT_2
C1_OBMT_2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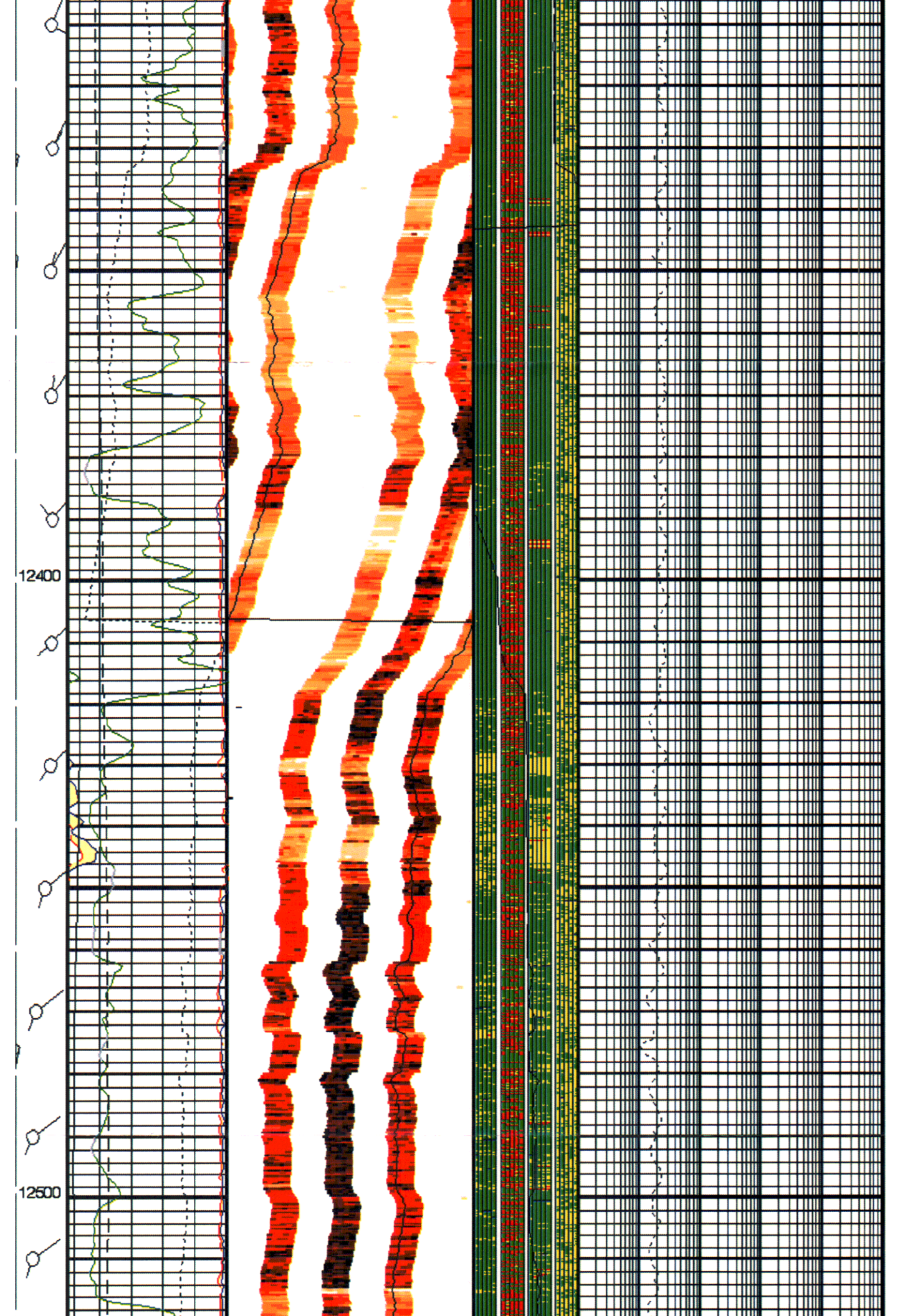
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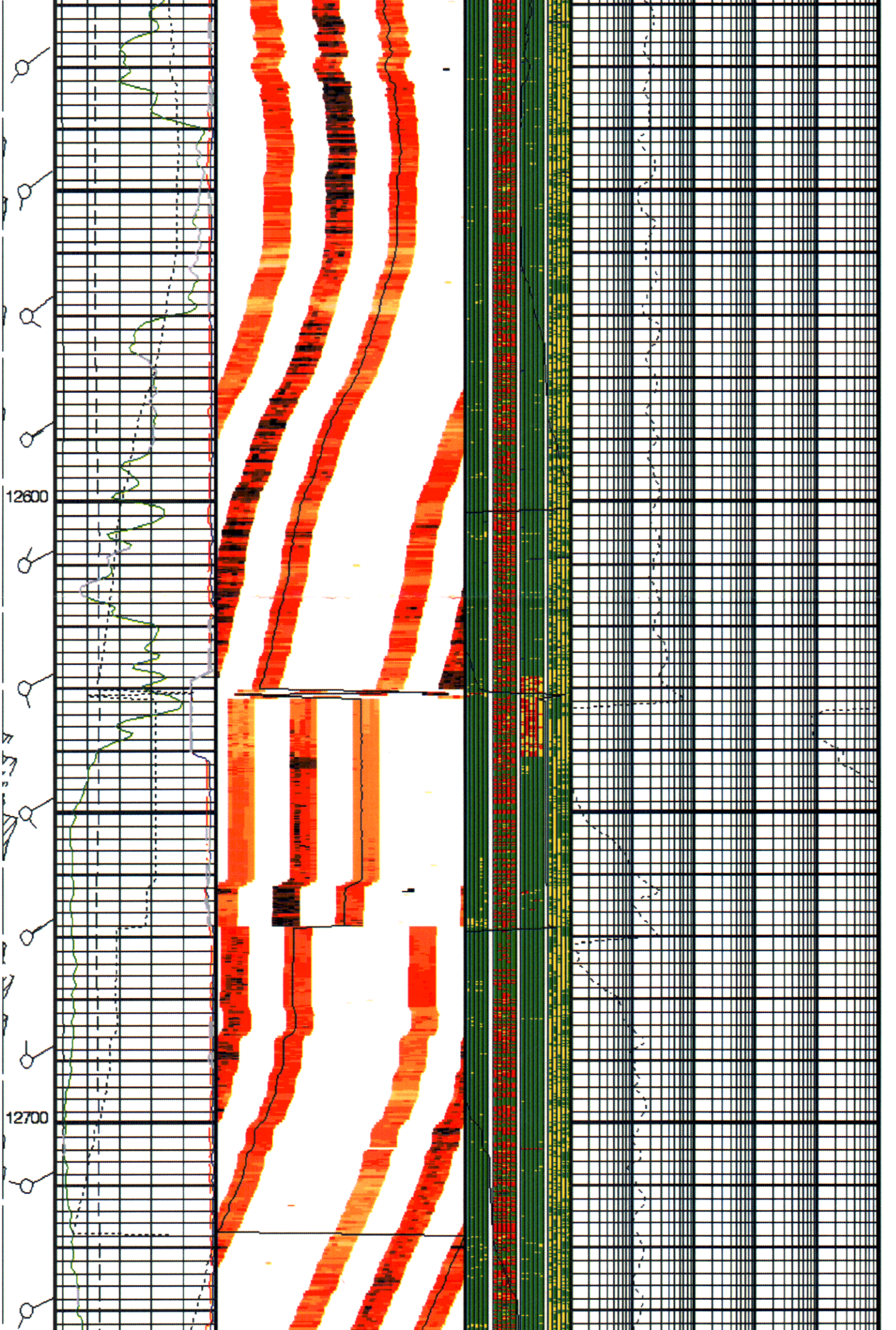
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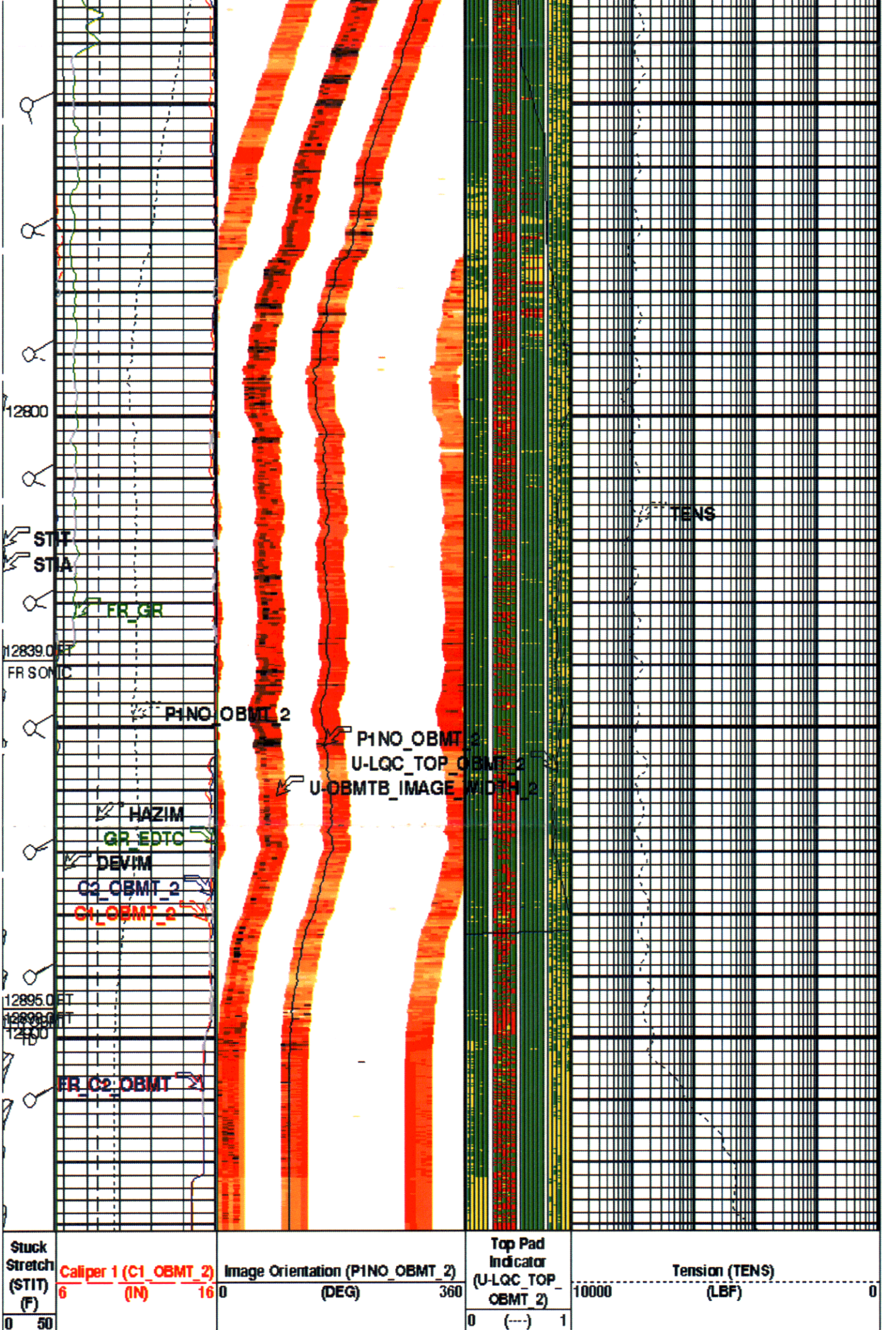
12800
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FR_GR
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FR SONIC
P1NO_OBMT_2
P1NO_OBMT_2
U-LQC_TOP_OBMT_2
U-OBMTB_IMAGE_WIDTH_2
HAZIM
GR_EDTC
DEVIM
C2_OBMT_2
C1_OBMT_2
12895.0FT
12900
TD
FR_C2_OBMT_2
TENS
Stuck Stretch (STIT) (F)
0 50
Caliper 1 (C1_OBMT_2)
6 (IN) 16
Image Orientation (P1NO_OBMT_2)
0 (DEG) 360
Top Pad Indicator (U-LQC_TOP_OBMT_2)
0 (---) 1
Tension (TENS)
10000 (LBF) 0

Cable Drag From FB_D_2 to STIT	Caliper 2 (C2_OBMT_2) 6 (IN) 16	0.1000 0.2310 0.5337 1.2326 2.8460 6.5730 15.1891 35.1119 81.1131 187.3680 432.8760 1000.0000 Resistivity Image (OBRA_2) (---)	LQC Image (LQC_IMG_OBMT_2) (---)
Tool/Tot. Drag From FB_D_2 to STIA	Deviation (DEVIM) 0 (DEG) 100		
BHDrift (BHDrift) (DEG) 0 10 Hole Azimuth Pad 1 Azimuth	Gamma Ray (GR_EDTC) 0 (GAPI) 150		
	Hole Azimuth (HAZIM) -40 (DEG) 360		
	Pad One Azimuth (P1NO_OBMT_2) -40 (DEG) 360		

PIP SUMMARY

Time Mark Every 60 S

*** Flag Track ***

GREEN = OK YELLOW = POOR SIGNAL BLUE = SATURATION RED = LIFT_OFF

left to right:

Pad A buttons 1 to 5

Pad B buttons 1 to 5

Pad C buttons 1 to 5

Pad D buttons 1 to 5

OBMI Image.

Image with no processing applied

! Resistive (White) to Conductive (Black) !

Format: OBMTB2_BS_WRAP_BY_P1NO Vertical Scale: 5" per 100' Graphics File Created: 22-Jan-2011 08:11

OP System Version: 19C0-187

OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

Parameters

DLIS Name	Description	Value
	OBMT-D2: Oil Base Mud Formation Imager Tool D	
OBFR_2	OBMT2 Frame Rate	1800 FPH

OBKF_2	OBMT K Factor	8	M
OBSM_2	Downhole Injection Switched Mode	ON	
ODCLA_2	OBMT2 Downhole Algorithm	MAX2_AUTO	
OIAE_2	Pad A Enable	YES	
OIBE_2	Pad B Enable	YES	
OICE_2	Pad C Enable	YES	
OICLM_2	Injection Control Loop Mode	DOWNHOLE_AUTO	
OIDE_2	Pad D Enable	YES	
OIMAX_2	Injection Maximum Voltage	334	V
OIVA_2	Injection Amplitude PAD A (Manual Selection)	0	V
OIVB_2	Injection Amplitude PAD B (Manual Selection)	0	V
OIVC_2	Injection Amplitude PAD C (Manual Selection)	0	V
OIVD_2	Injection Amplitude PAD D (Manual Selection)	0	V
OPGA_2	Electronic Gain PAD A (Manual Selection)	0_dB	
OPGB_2	Electronic Gain PAD B (Manual Selection)	0_dB	
OPGC_2	Electronic Gain PAD C (Manual Selection)	0_dB	
OPGD_2	Electronic Gain PAD D (Manual Selection)	0_dB	
OZLA_2	OBMT2 Pad A Leakage Impedance	1600	KOHM
OZLB_2	OBMT2 Pad B Leakage Impedance	1600	KOHM
OZLC_2	OBMT2 Pad C Leakage Impedance	1600	KOHM
OZLD_2	OBMT2 Pad D Leakage Impedance	1600	KOHM
OBMT-F: Slim Thru-wired Oil Base Mud Formation Imager Tool F			
SOFF	OBMT Standoff Fin Size	0	IN
GPIT-F: General Purpose Inclinometer			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	12.5935	DEG
MAPC-B: Multimode Array Sonic Power Cartridge			
BS	Bit Size	6.000	IN
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT
TIVD	TVD of Tie-in Point	0	FT
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	12885.00	FT
TDL	Total Depth - Logger	12894.00	FT
System and Miscellaneous			
DO	Depth Offset for Playback	19.0	FT
PP	Playback Processing	OFF	

Input DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

Output DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11

Schlumberger

Log Quality Control

MAXIS Field Log

Company: OXY US LA BASIN

Well: DOM-001

Input DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

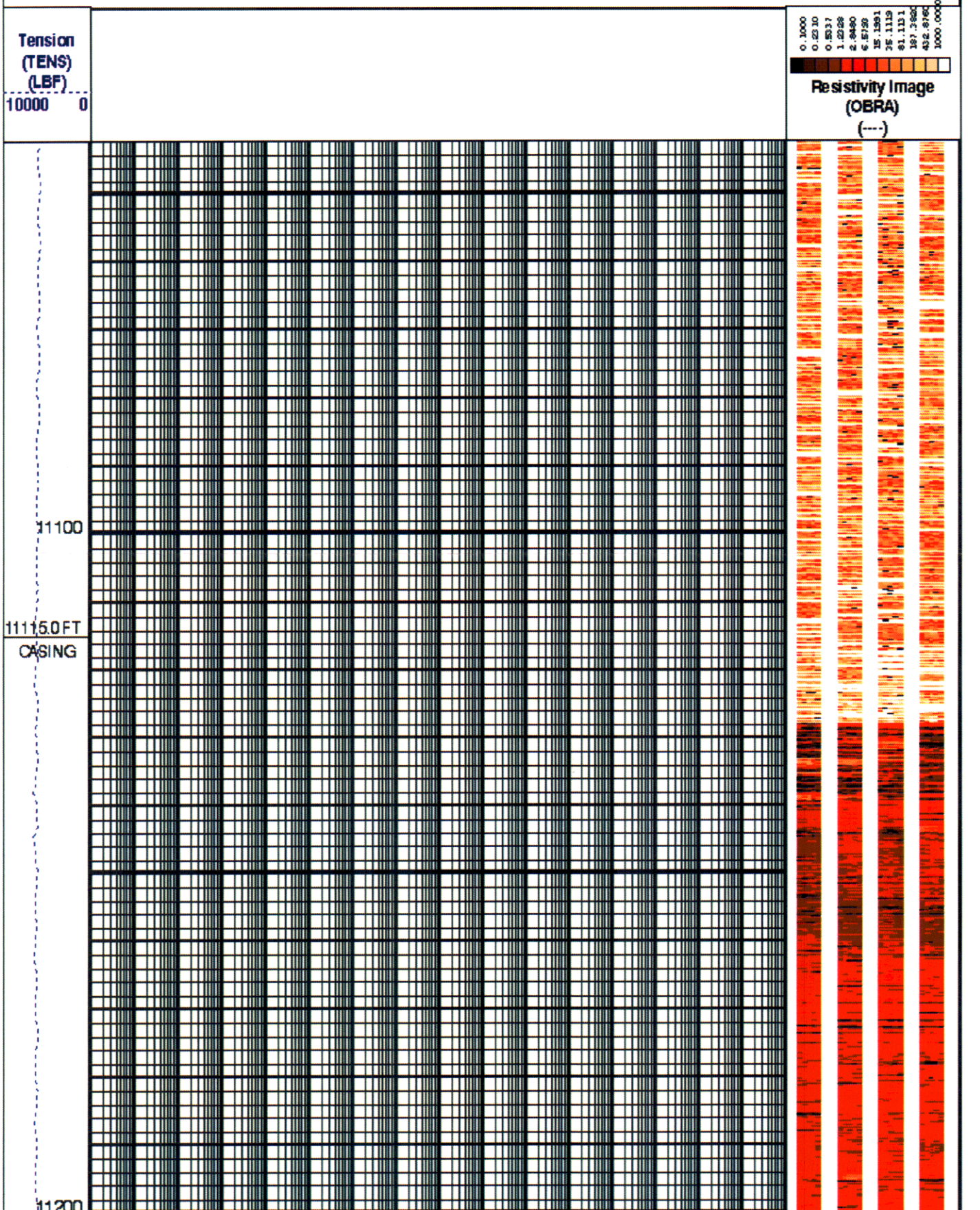
Output DLIS Files

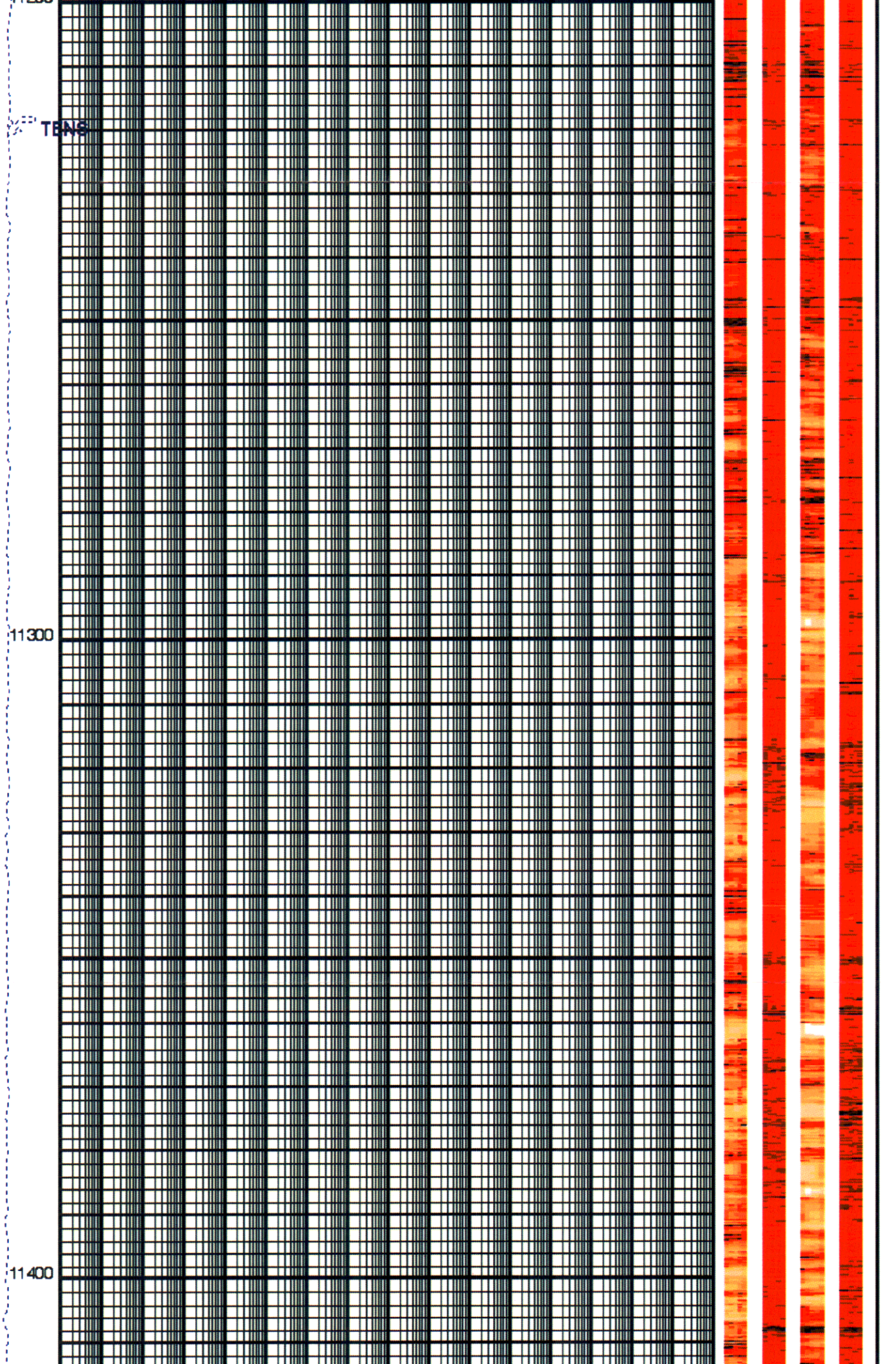
DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT

CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT

OP System Version: 19C0-187

OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187




TENS
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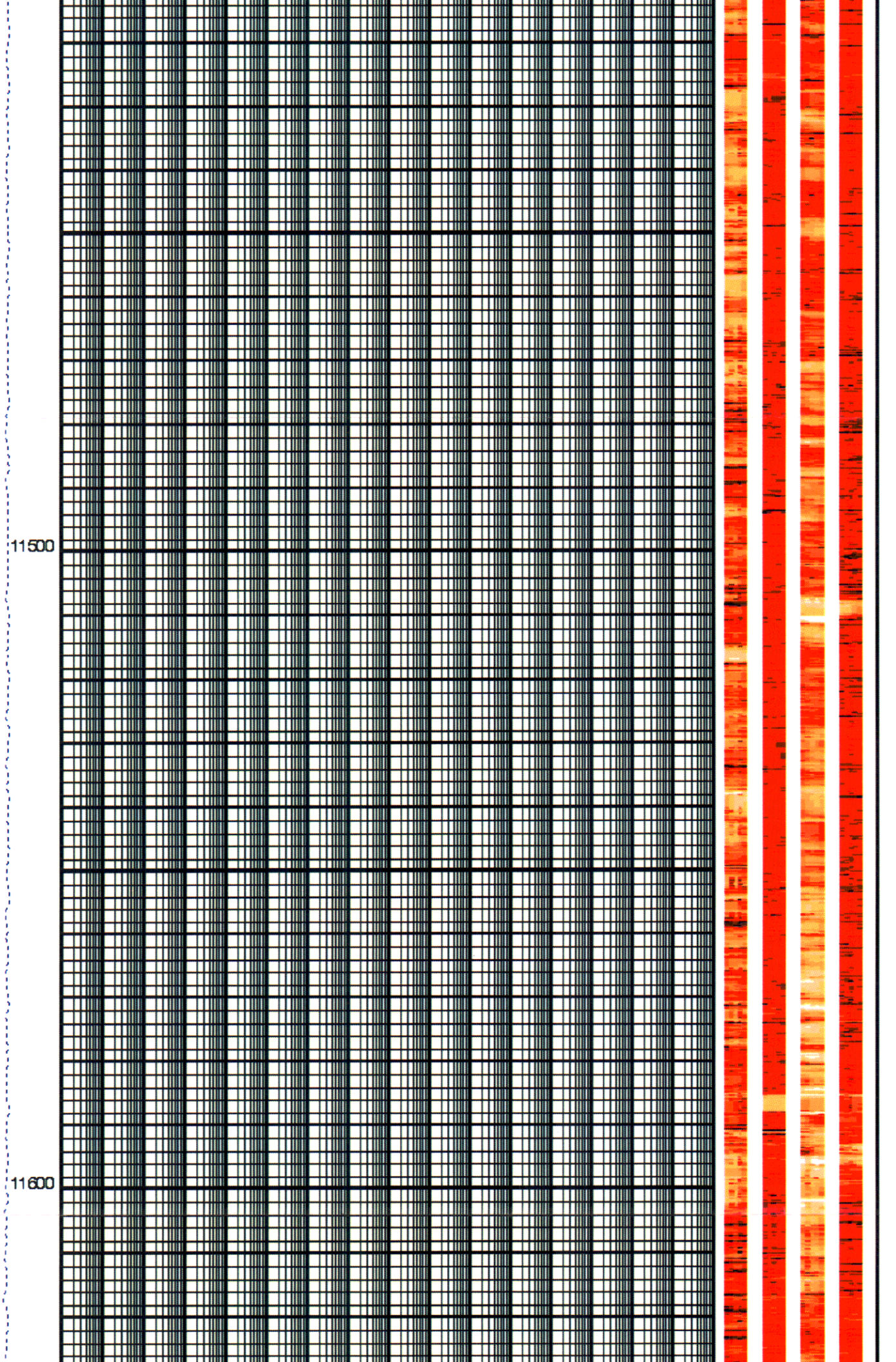
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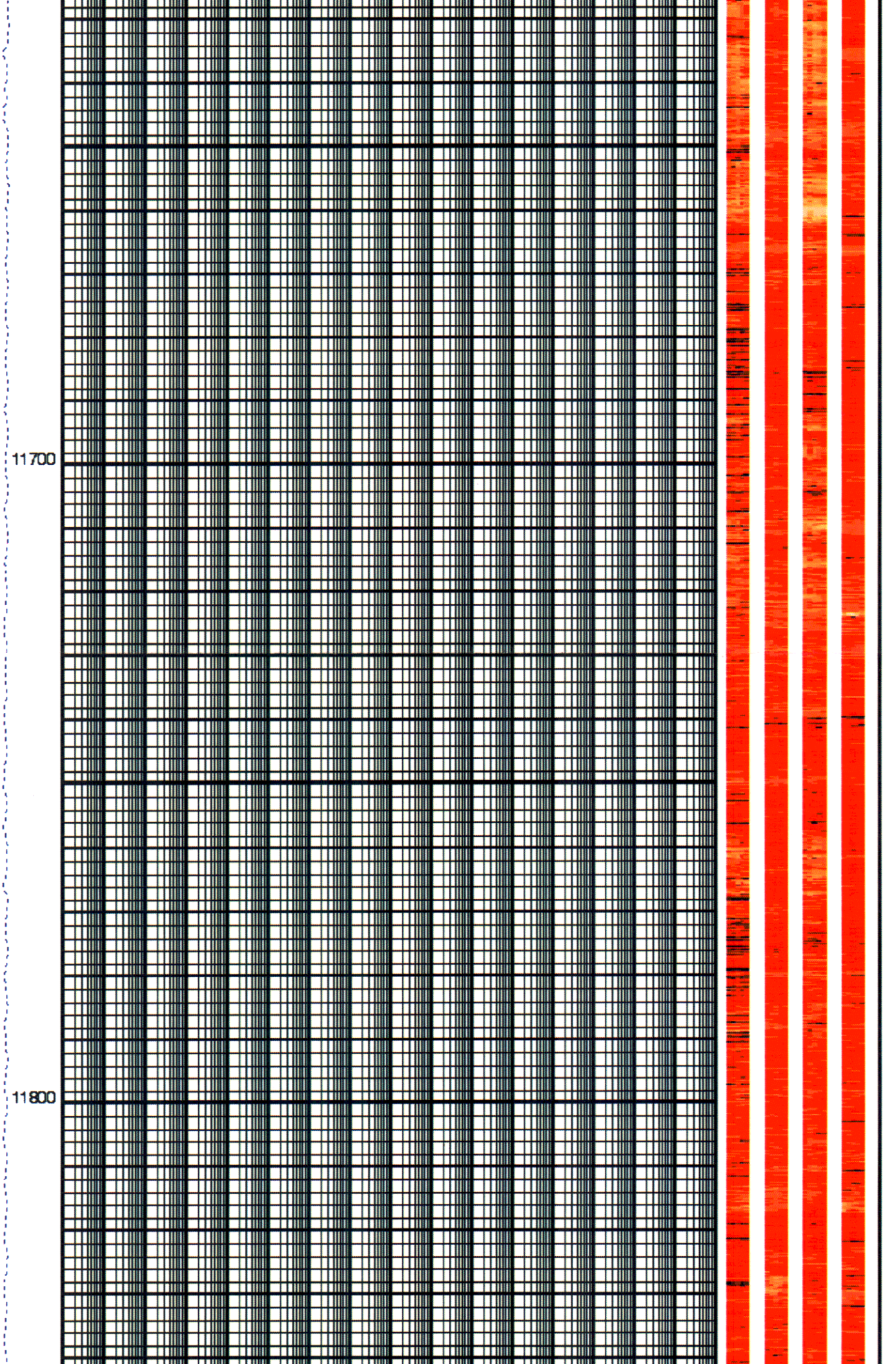
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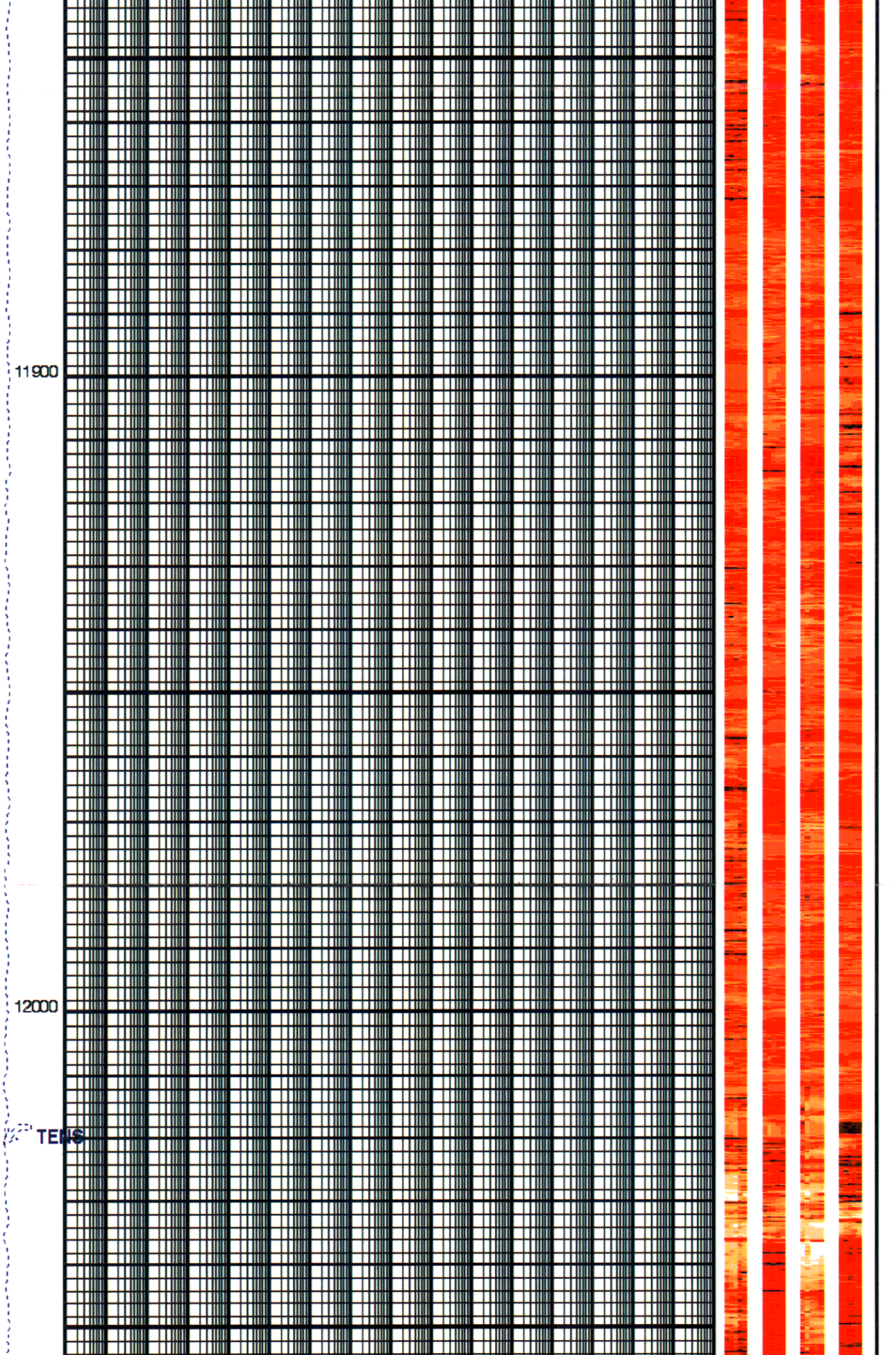
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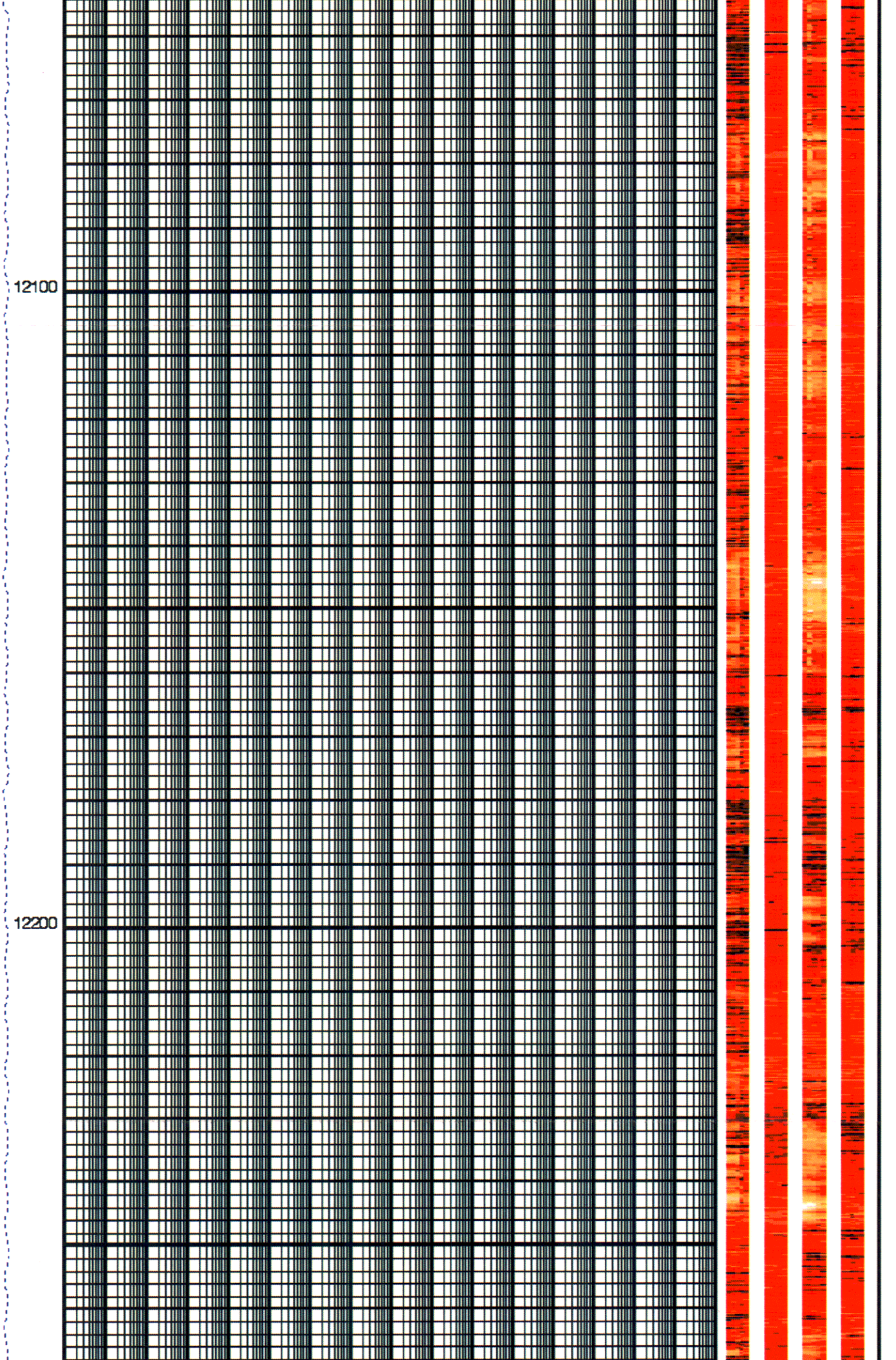
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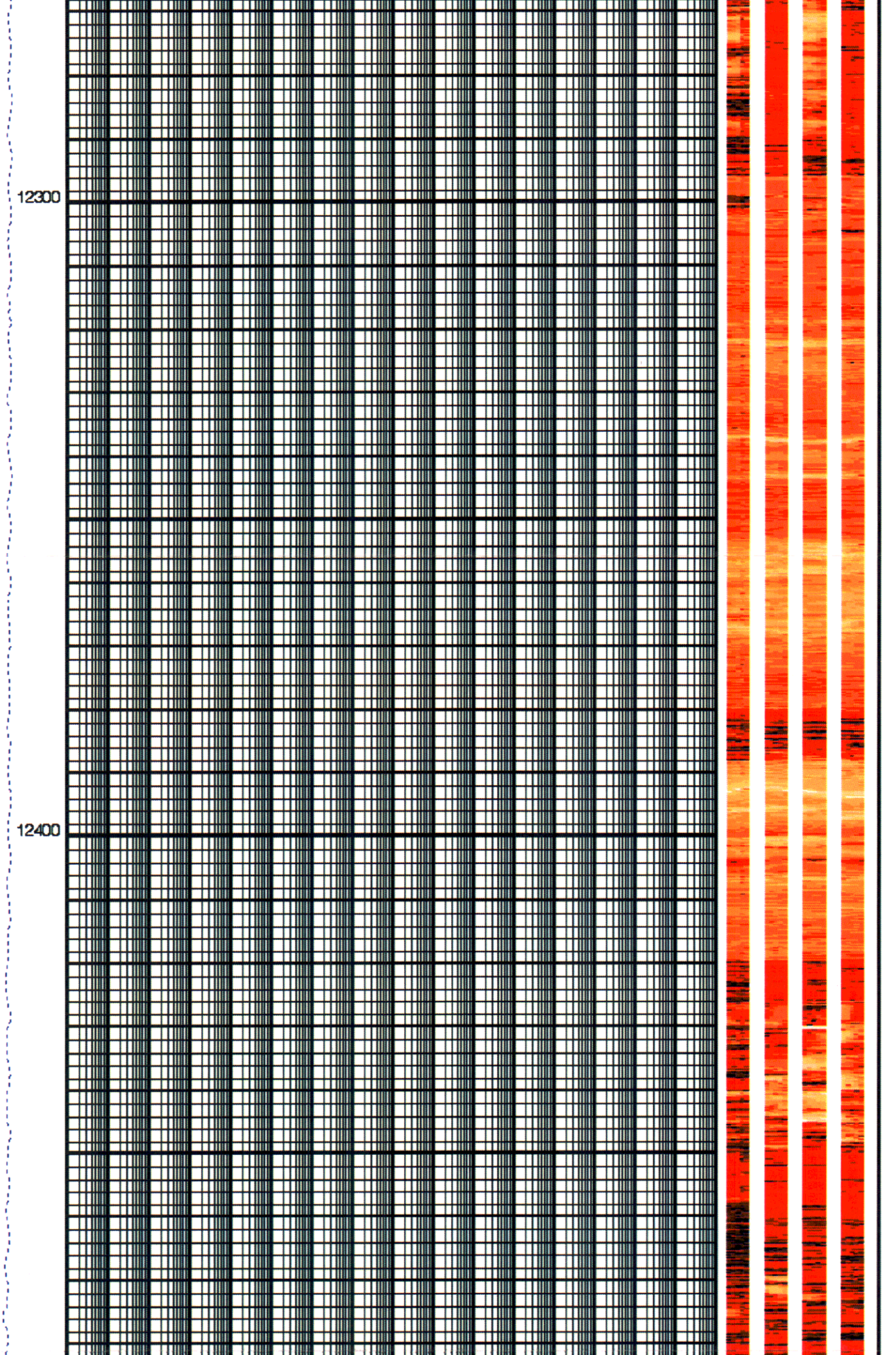
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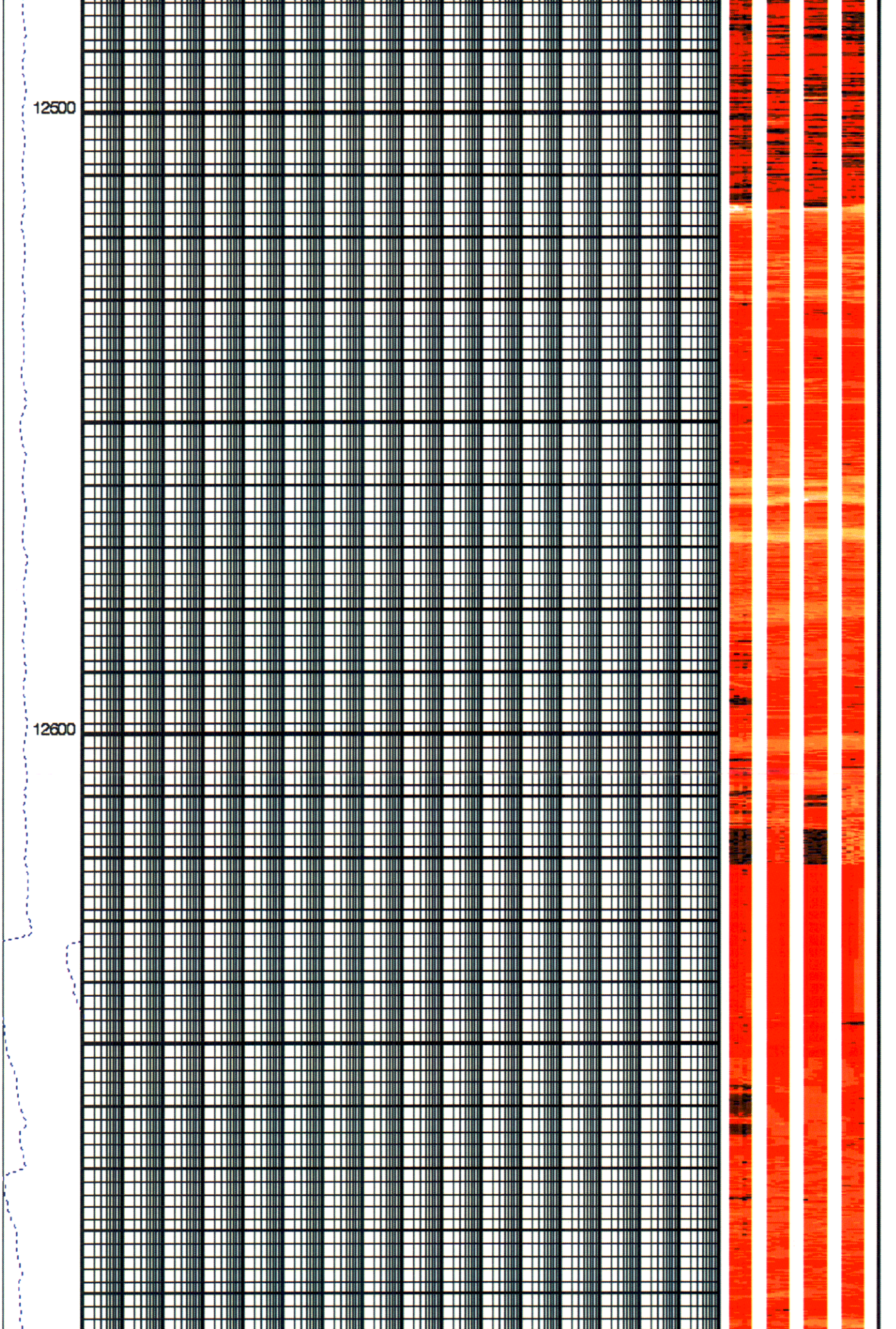
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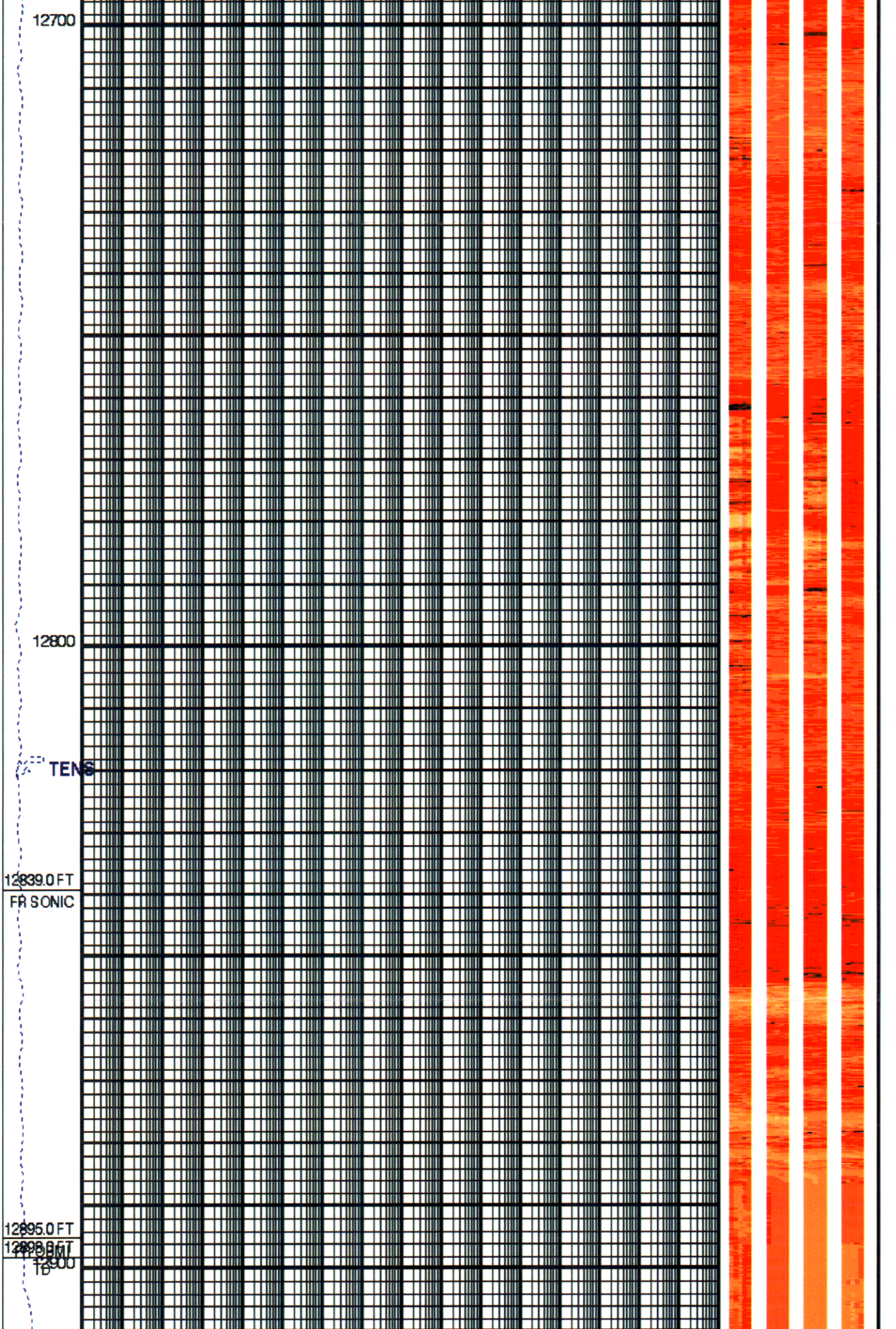
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12800
TENS
12839.0 FT
FR SONIC
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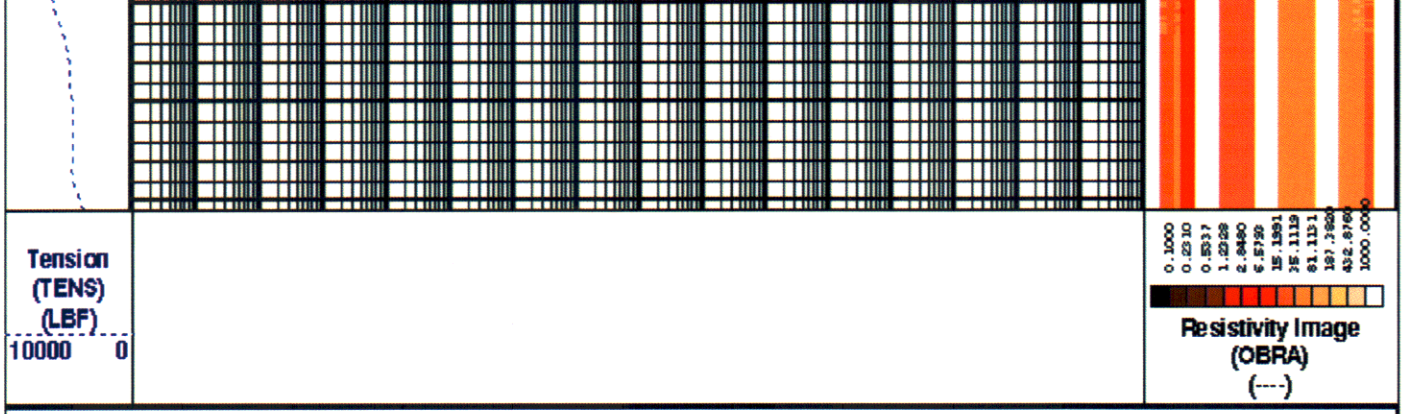
12900
TD



OBMI Image.

Image with no processing applied

! Resistive (White) to Conductive (Black) !

Format: OBMTB_RESISTIVITY_LQC Vertical Scale: 5" per 100' Graphics File Created: 22-Jan-2011 08:11

OP System Version: 19C0-187

OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

Parameters

DLIS Name	Description	Value	
	OBMT-F: Slim Thru-wired Oil Base Mud Formation Imager Tool F		
OBFR	OBMT Frame Rate	1800_FPH	
OBKF	OBMT K Factor	8	M
OBSM	Downhole Injection Switched Mode	ON	
ODCLA	OBMT Downhole Algorithm	MAX2_AUTO	
OIAE	Pad A Enable	YES	
OIBE	Pad B Enable	YES	
OICE	Pad C Enable	YES	
OICLM	Injection Control Loop Mode	DOWNHOLE_AUTO	
OIDE	Pad D Enable	YES	
OIMAX	Injection Maximum Voltage	334	V
OIVA	Injection Amplitude PAD A (Manual Selection)	0	V
OIVB	Injection Amplitude PAD B (Manual Selection)	0	V
OIVC	Injection Amplitude PAD C (Manual Selection)	0	V
OIVD	Injection Amplitude PAD D (Manual Selection)	0	V
OPGA	Electronic Gain PAD A (Manual Selection)	0_dB	
OPGB	Electronic Gain PAD B (Manual Selection)	0_dB	
OPGC	Electronic Gain PAD C (Manual Selection)	0_dB	
OPGD	Electronic Gain PAD D (Manual Selection)	0_dB	
OZLA	OBMT Pad A Leakage Impedance	1600	KOHM
OZLB	OBMT Pad B Leakage Impedance	1600	KOHM
OZLC	OBMT Pad C Leakage Impedance	1600	KOHM
OZLD	OBMT Pad D Leakage Impedance	1600	KOHM
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT
TIVD	TVD of Tie-in Point	0	FT
	System and Miscellaneous		
DO	Depth Offset for Playback	19.0	FT
PP	Playback Processing	OFF	

Input DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

Output DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11

RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11		

Company: OXY US LA BASIN | Well: DOM-001

Input DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

Output DLIS Files

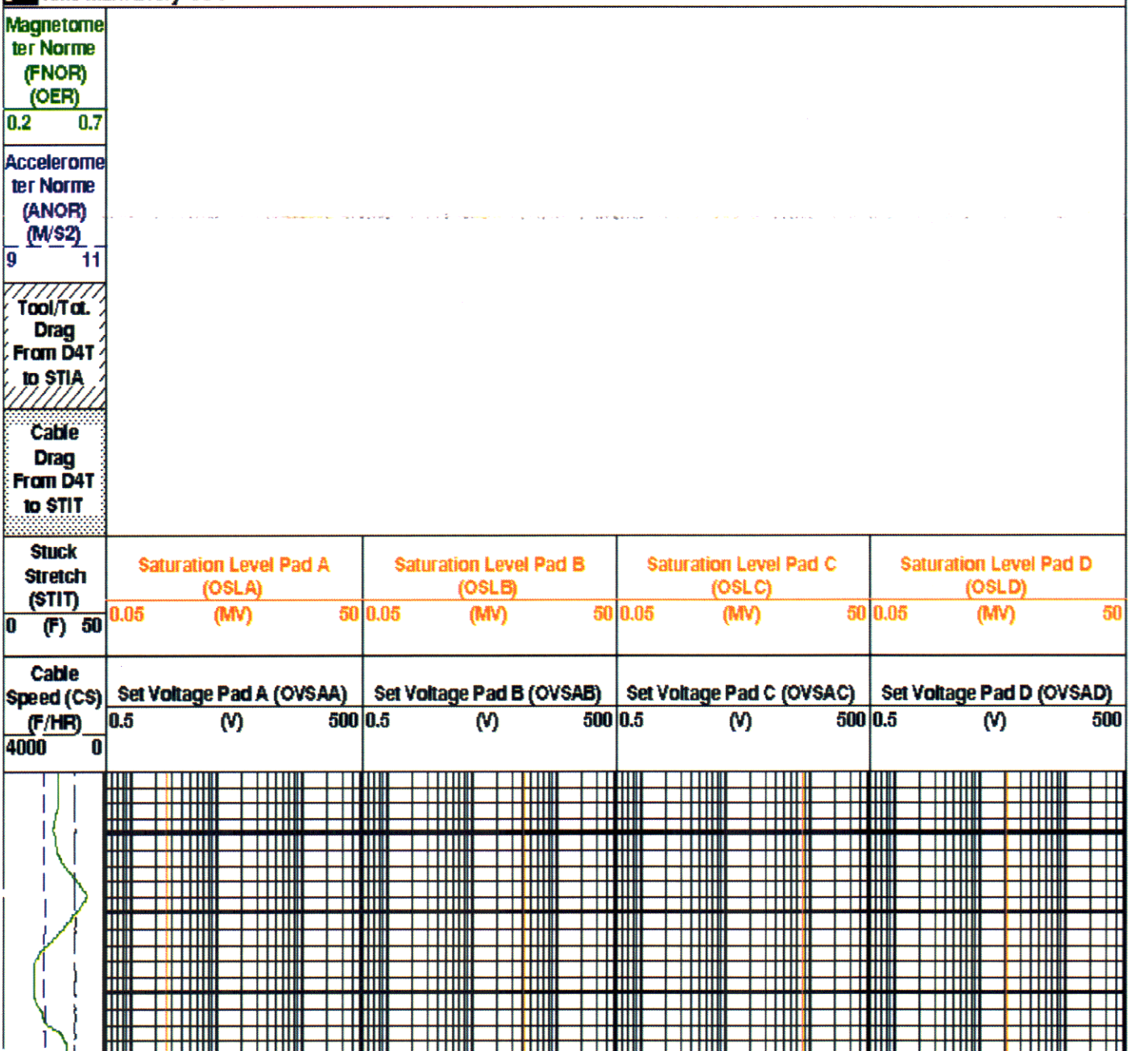
DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT

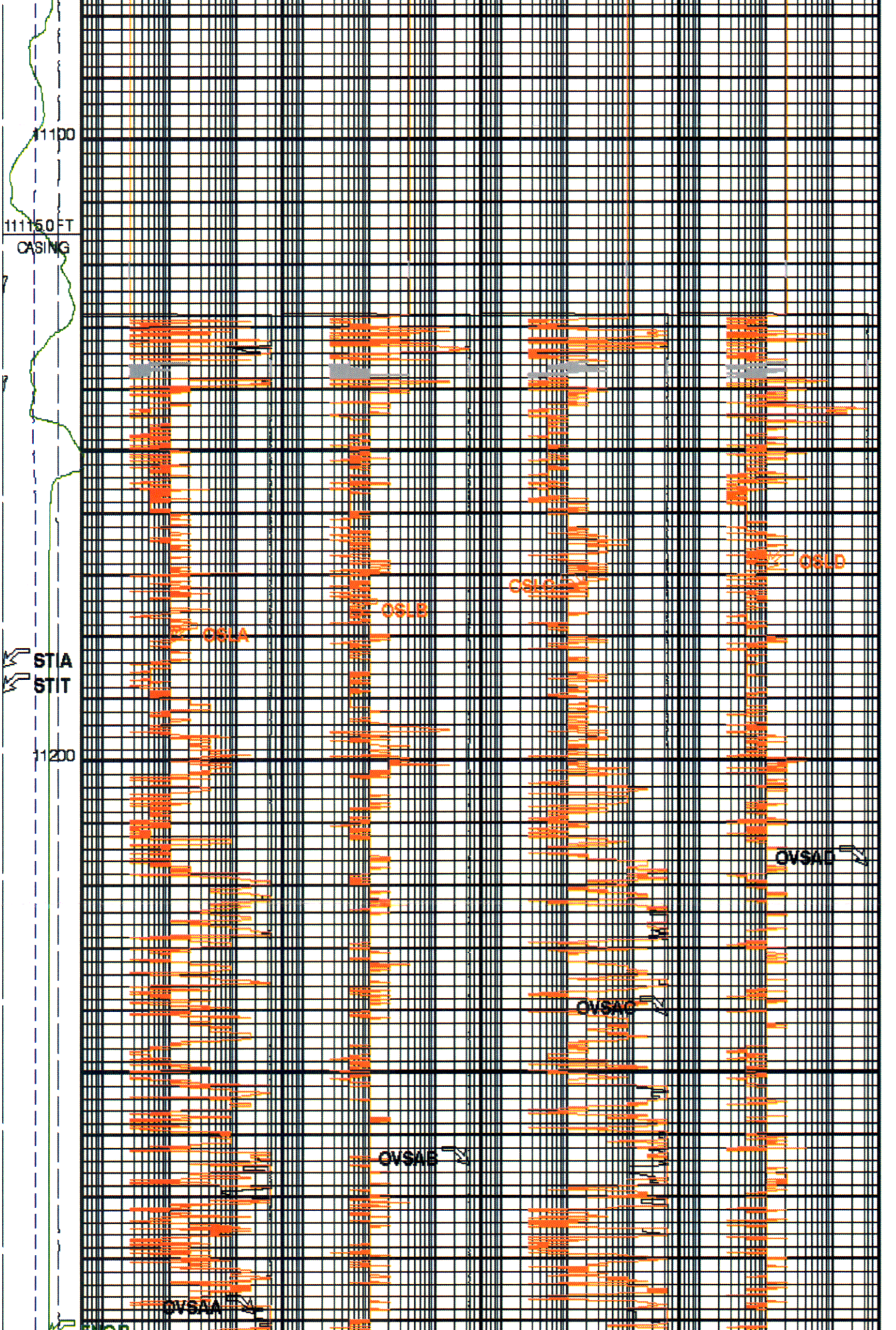
OP System Version: 19C0-187

OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

PIP SUMMARY

Time Mark Every 60 S

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11115.0 FT
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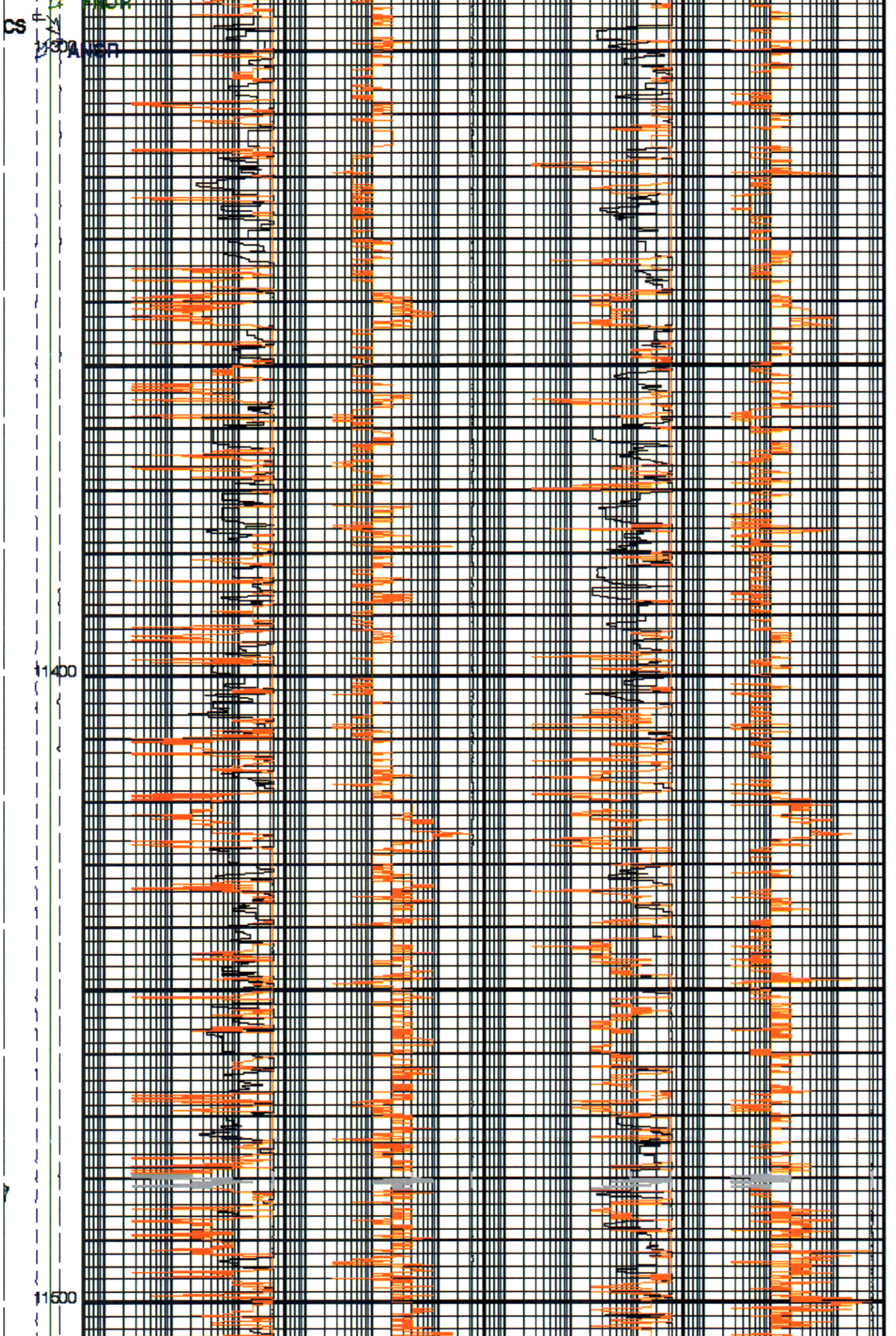
OSLB
OSLC
OSLD
STIA
STIT
11200
OVSAD
OVSAC
OVSAB
OVSAA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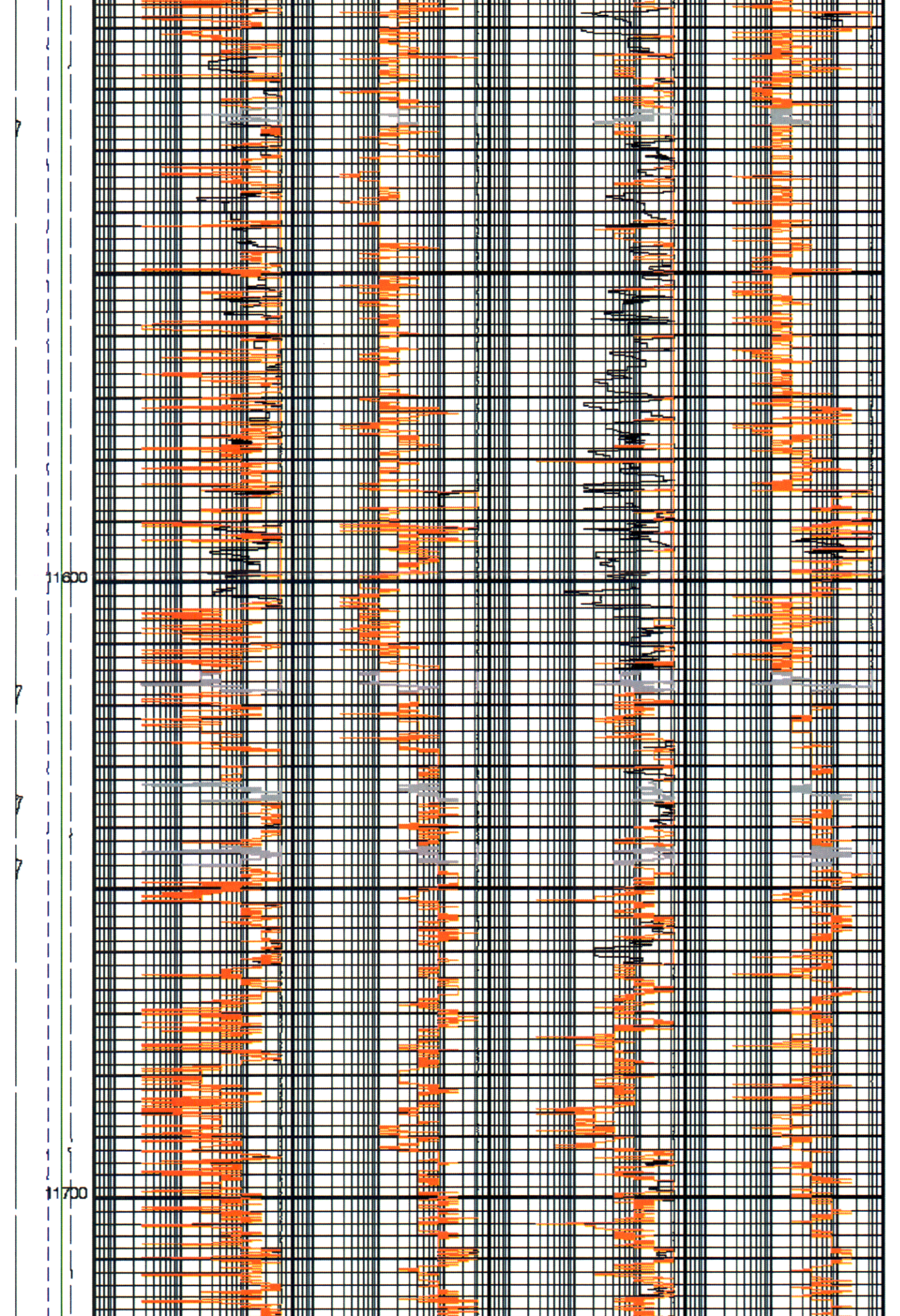
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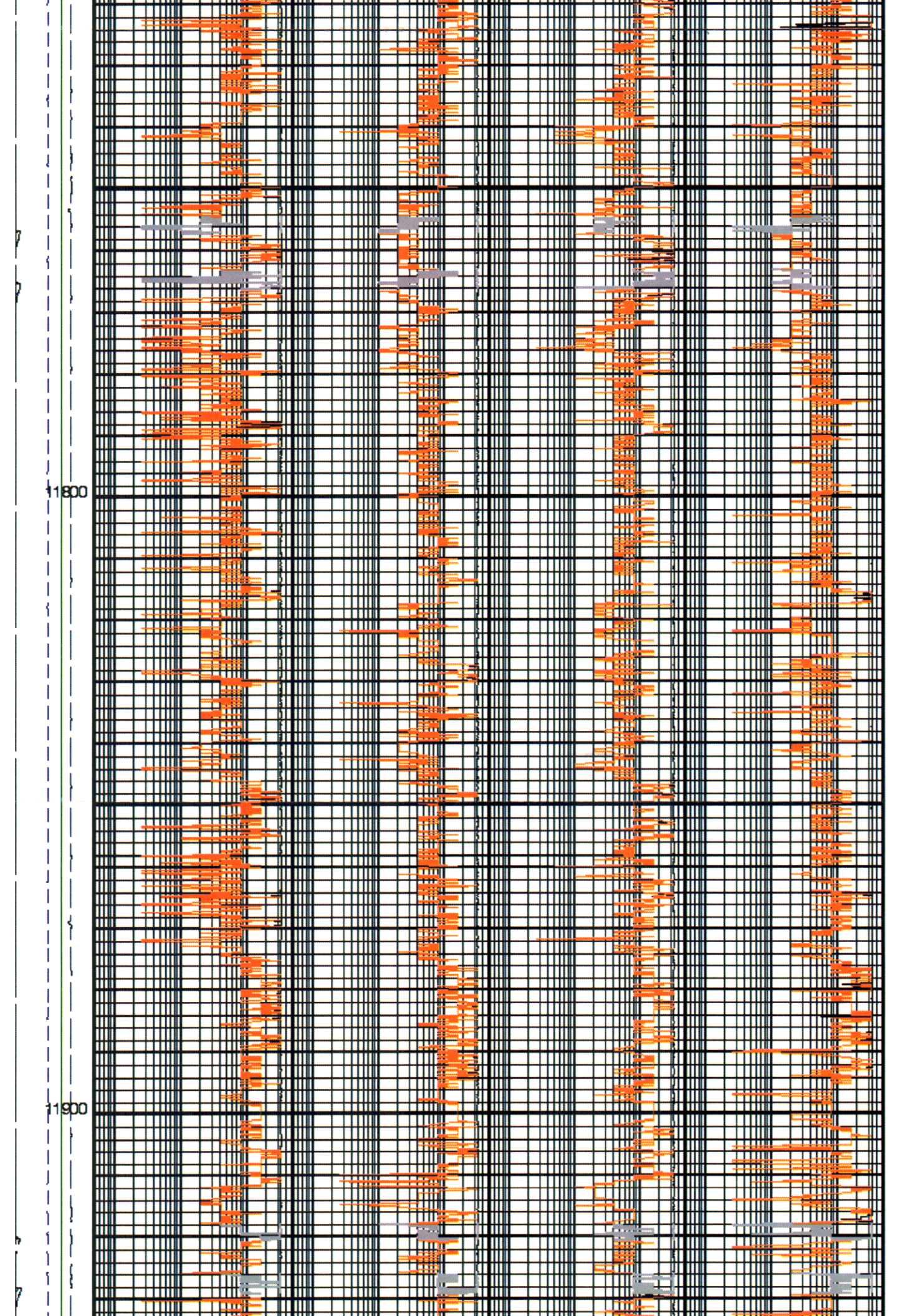
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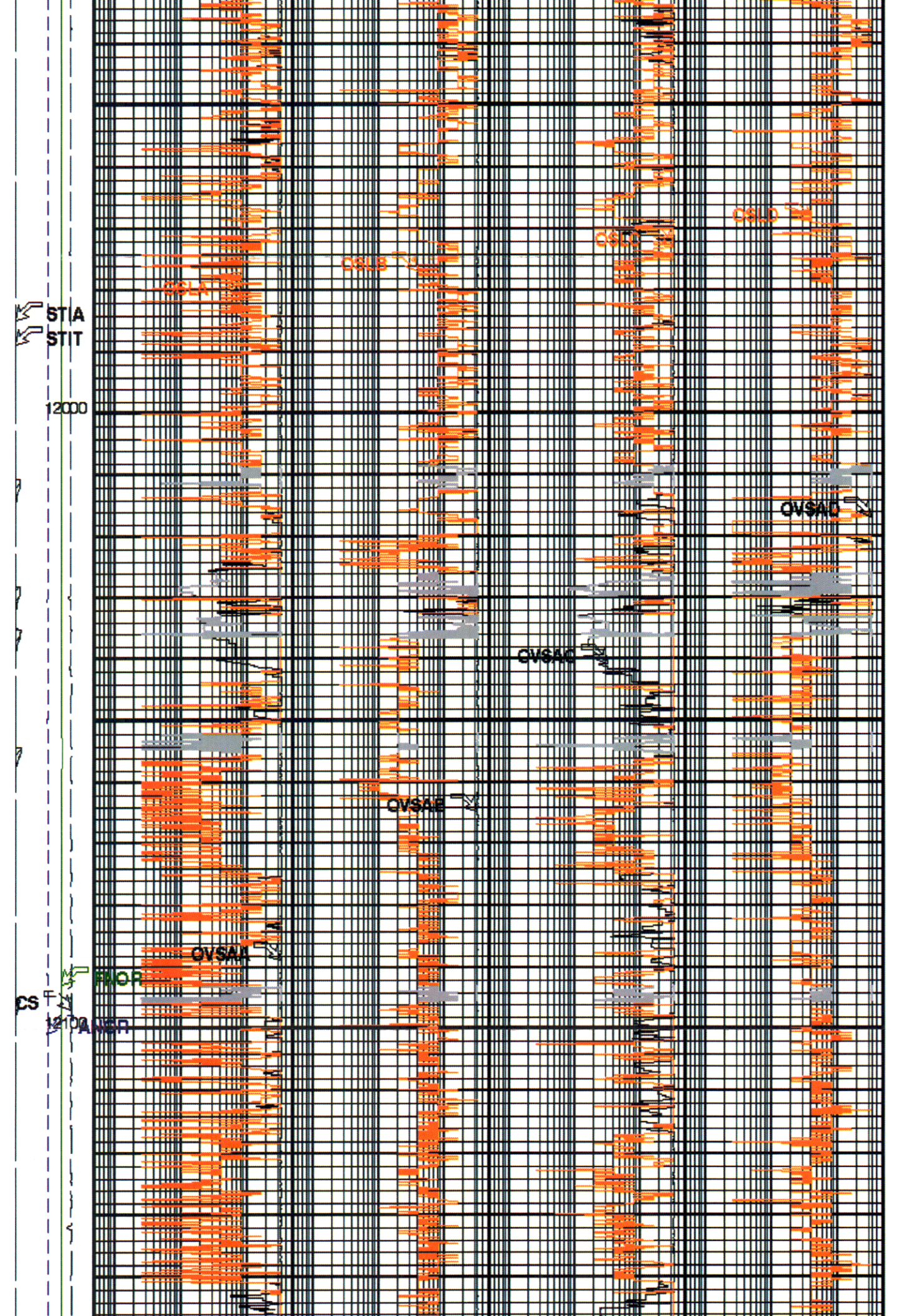
STIA
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OSLD
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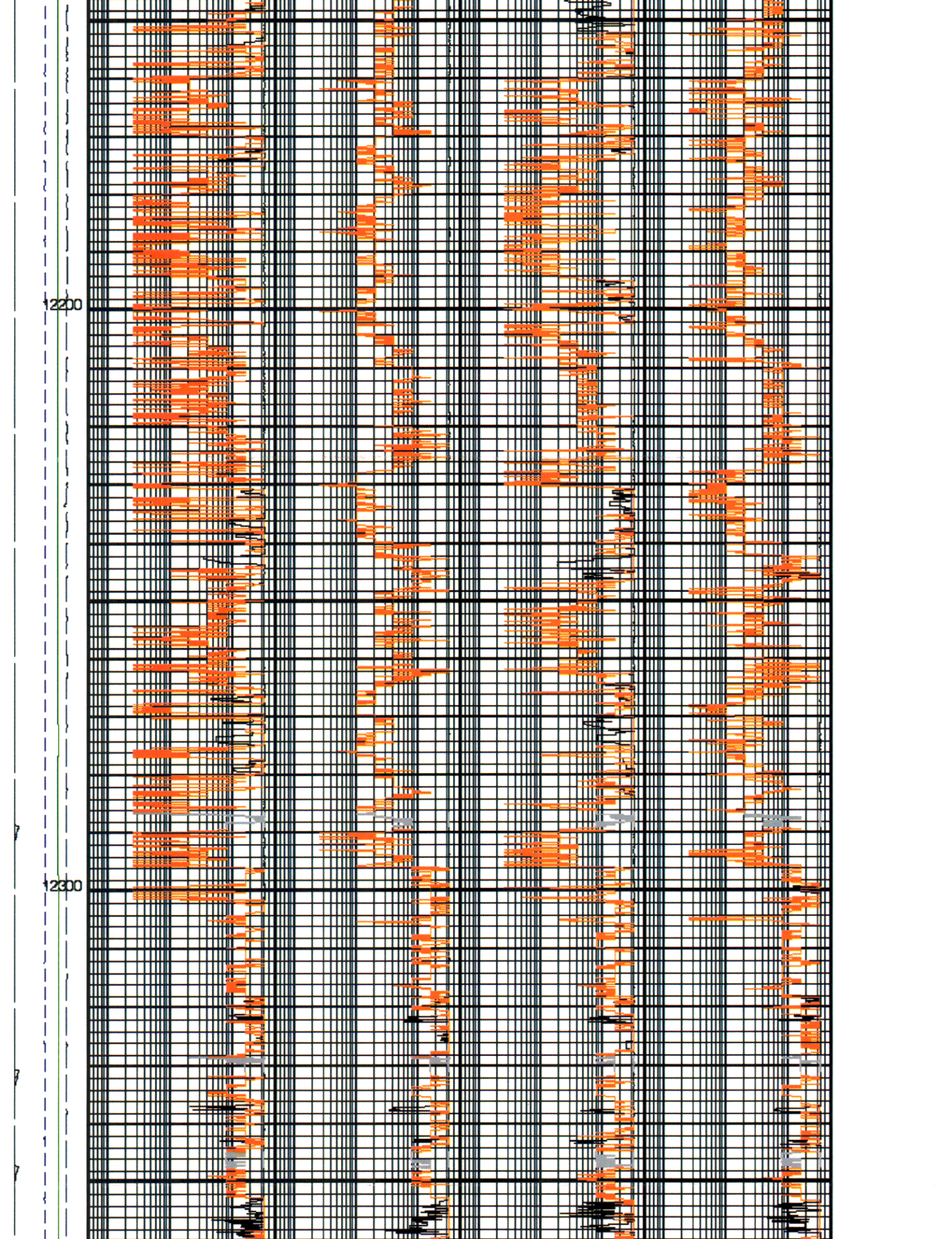
OVSAA
FMOR
CS
12100
AMSR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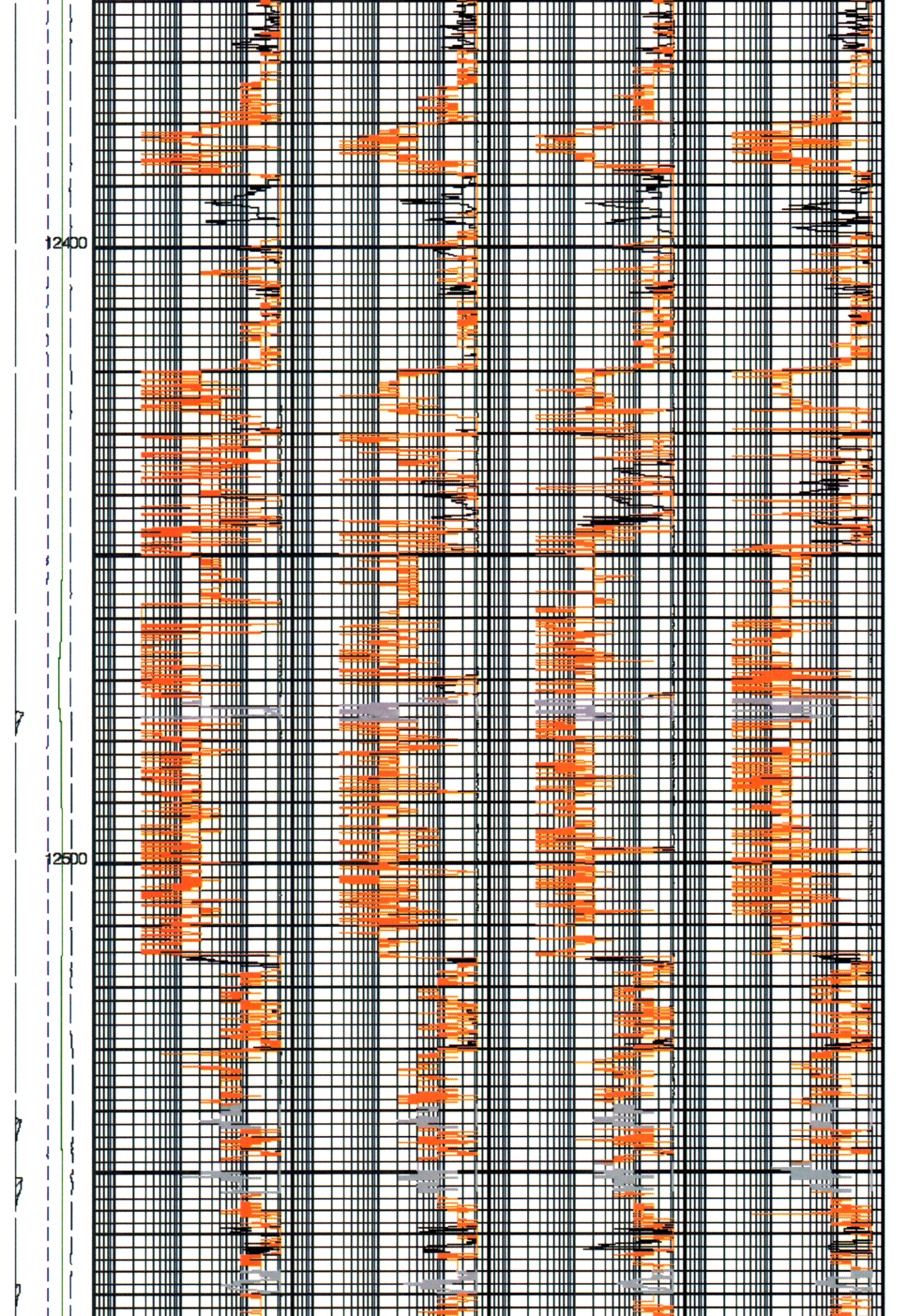
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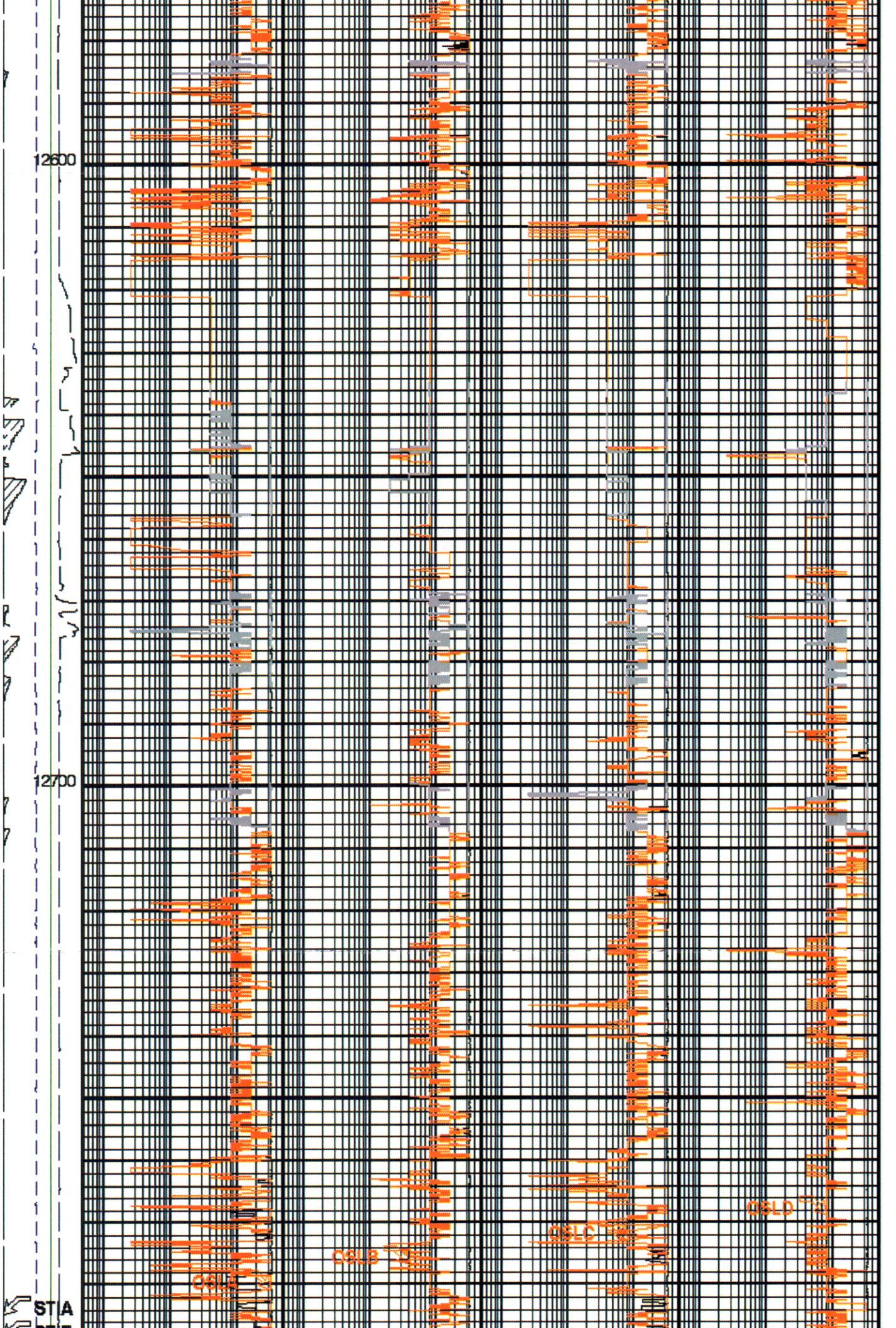
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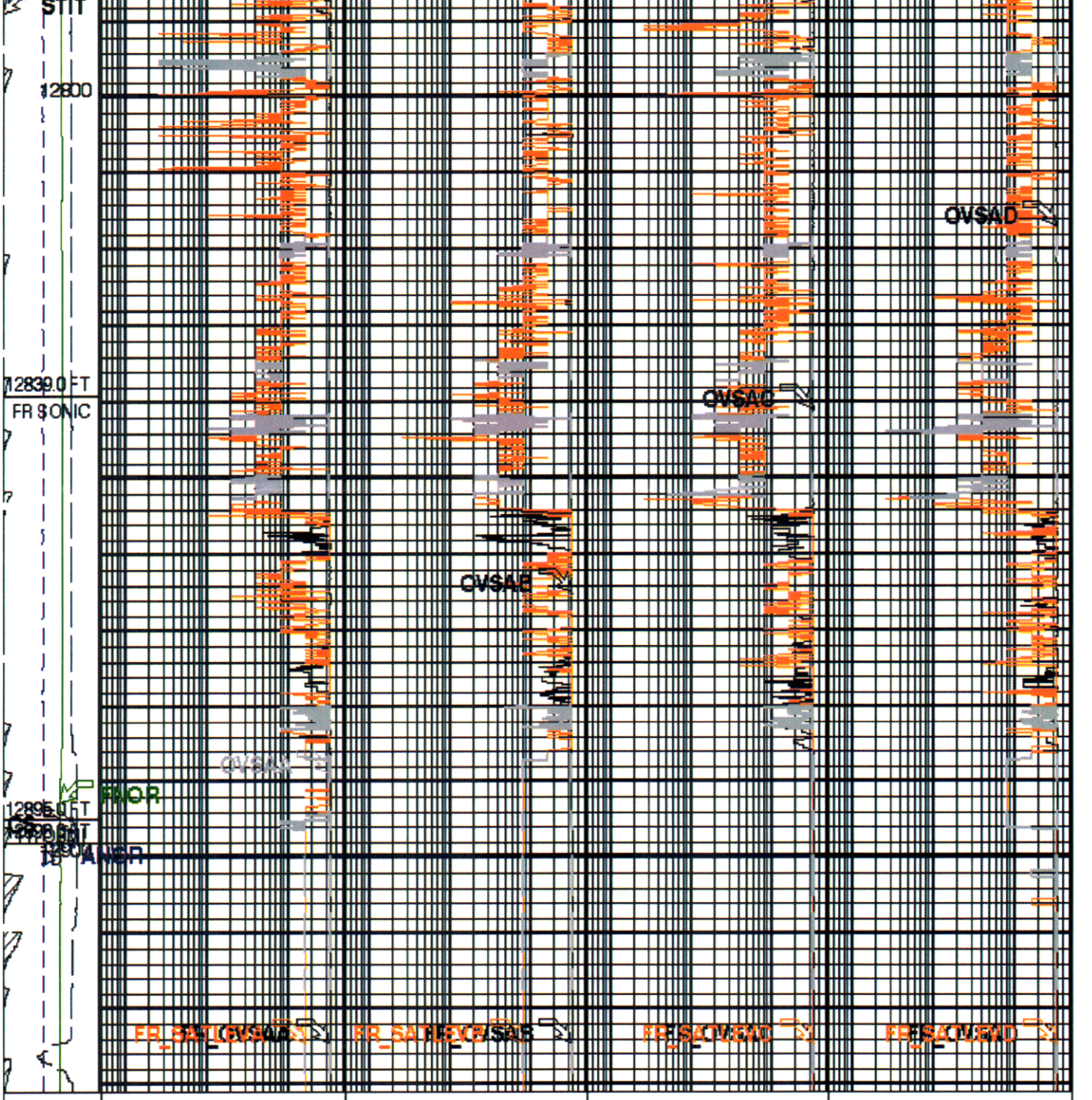
12700
OSLD
OSLC
OSLB
OSLC
ST A



Cable Speed (CS) (F/HR)	Set Voltage Pad A (OVSAA)	Set Voltage Pad B (OVSAB)	Set Voltage Pad C (OVSAC)	Set Voltage Pad D (OVSAD)
4000 0	0.5 (V) 500	0.5 (V) 500	0.5 (V) 500	0.5 (V) 500
Stuck Stretch (STIT)	Saturation Level Pad A (OSLA)	Saturation Level Pad B (OSLB)	Saturation Level Pad C (OSLC)	Saturation Level Pad D (OSLD)
0 (F) 50	0.05 (MV) 50	0.05 (MV) 50	0.05 (MV) 50	0.05 (MV) 50
Cable Drag From D4T to STIT				
Tool/Tot. Drag From D4T to STIA				
Accelerometer Norme (ANOR)				

(ANOR)
(M/S2)
9 11

Magnetometer Norme (FNOR) (OER)
0.2 0.7

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	OBMT-F: Slim Thru-wired Oil Base Mud Formation Imager Tool F		
ODCLA	OBMT Downhole Algorithm	MAX2_AUTO	
OIAE	Pad A Enable	YES	
OIBE	Pad B Enable	YES	
OICE	Pad C Enable	YES	
OICLM	Injection Control Loop Mode	DOWNHOLE_AUTO	
OIDE	Pad D Enable	YES	
OIMAX	Injection Maximum Voltage	334	V
OIVA	Injection Amplitude PAD A (Manual Selection)	0	V
OIVB	Injection Amplitude PAD B (Manual Selection)	0	V
OIVC	Injection Amplitude PAD C (Manual Selection)	0	V
OIVD	Injection Amplitude PAD D (Manual Selection)	0	V
OPGA	Electronic Gain PAD A (Manual Selection)	0_dB	
OPGB	Electronic Gain PAD B (Manual Selection)	0_dB	
OPGC	Electronic Gain PAD C (Manual Selection)	0_dB	
OPGD	Electronic Gain PAD D (Manual Selection)	0_dB	
	GPIT-F: General Purpose Inclinometer		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	12.5935	DEG
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT
TIVD	TVD of Tie-in Point	0	FT
	STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	12885.00	FT
TDL	Total Depth - Logger	12894.00	FT
	System and Miscellaneous		
DO	Depth Offset for Playback	19.0	FT
PP	Playback Processing	OFF	

Format: OBMTB_TEVAL Vertical Scale: 5" per 100' Graphics File Created: 22-Jan-2011 08:11

OP System Version: 19C0-187

OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

Input DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

Output DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11

Input DLIS Files

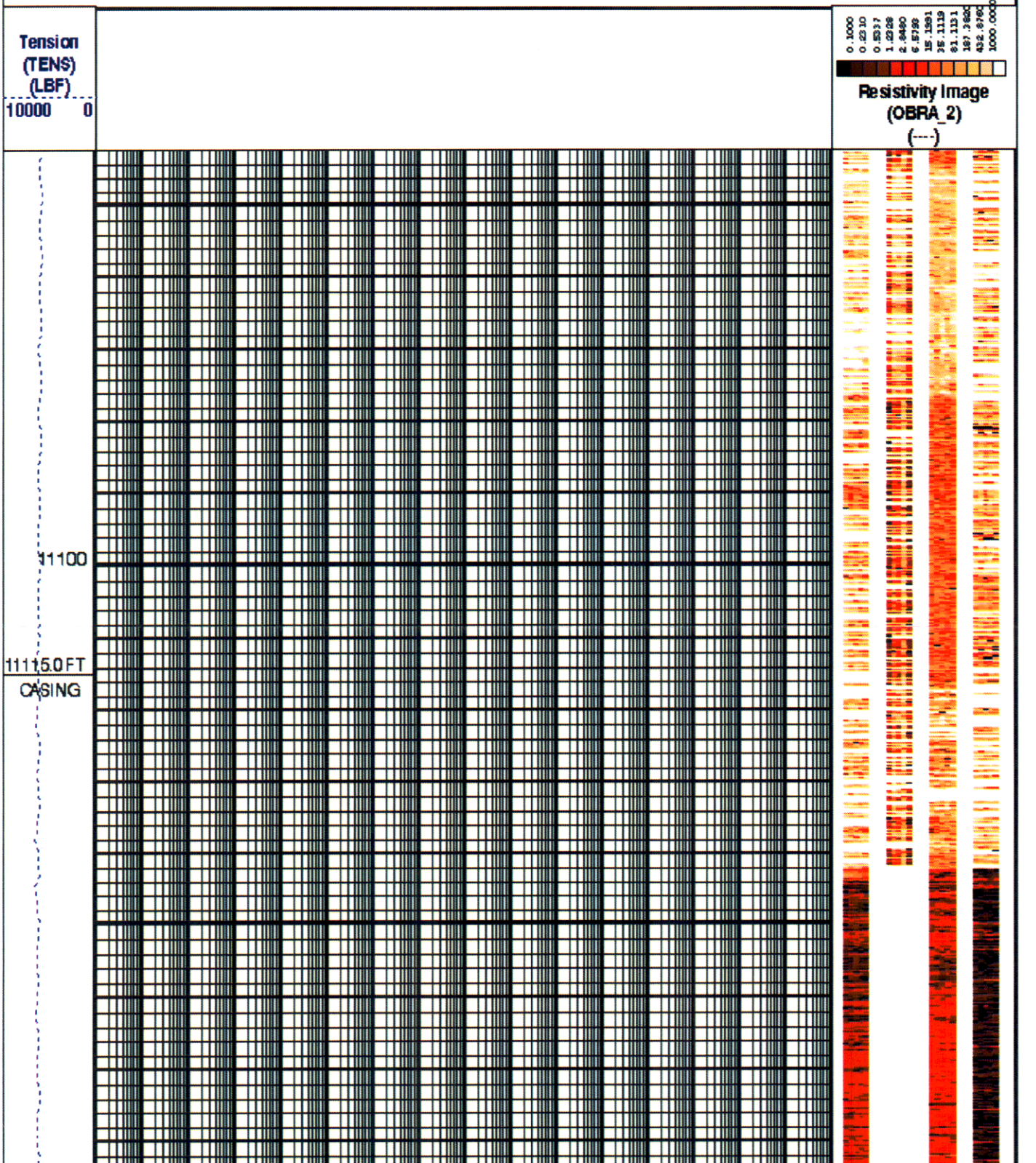
DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

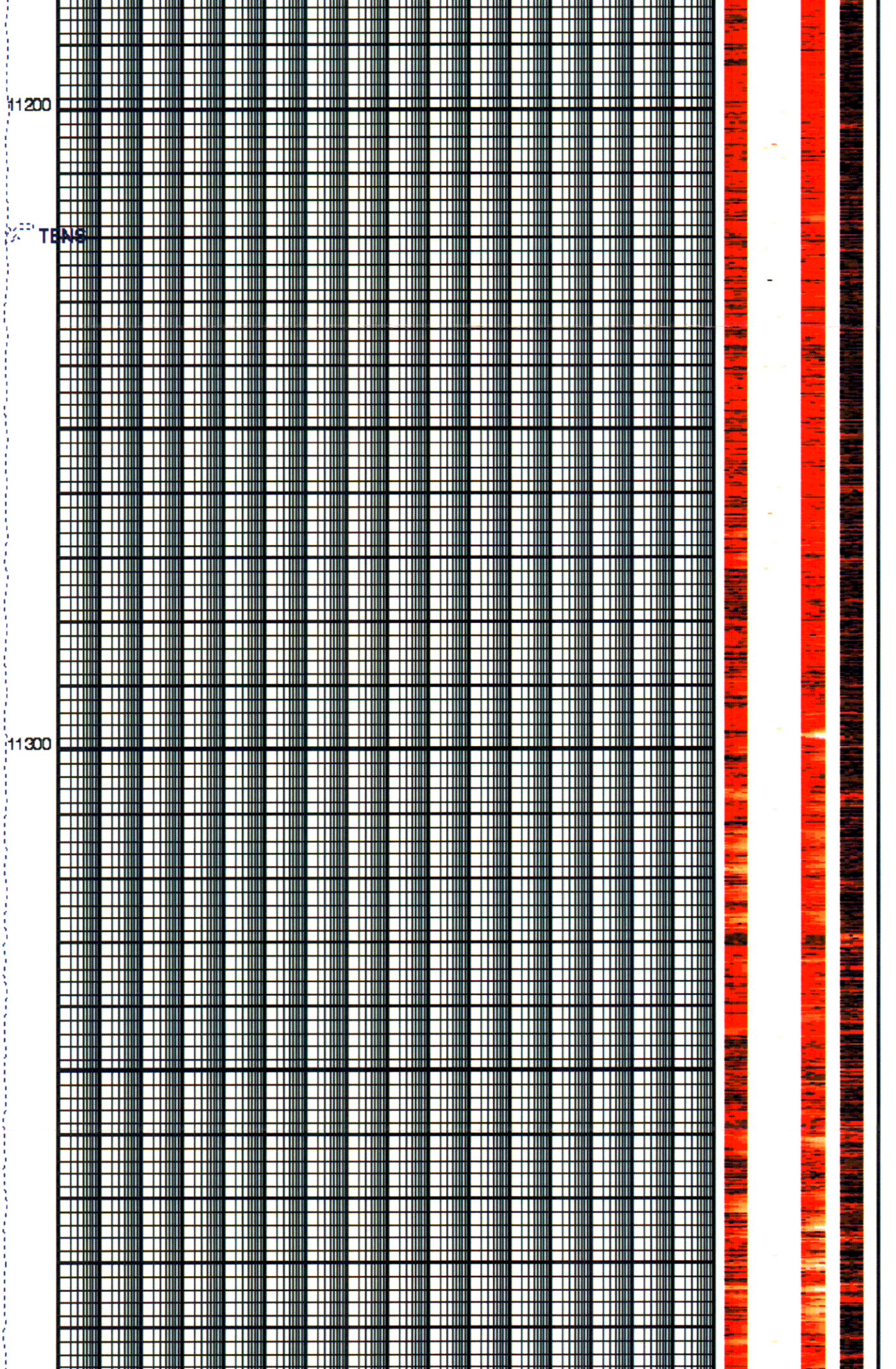
Output DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT

OP System Version: 19C0-187

OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

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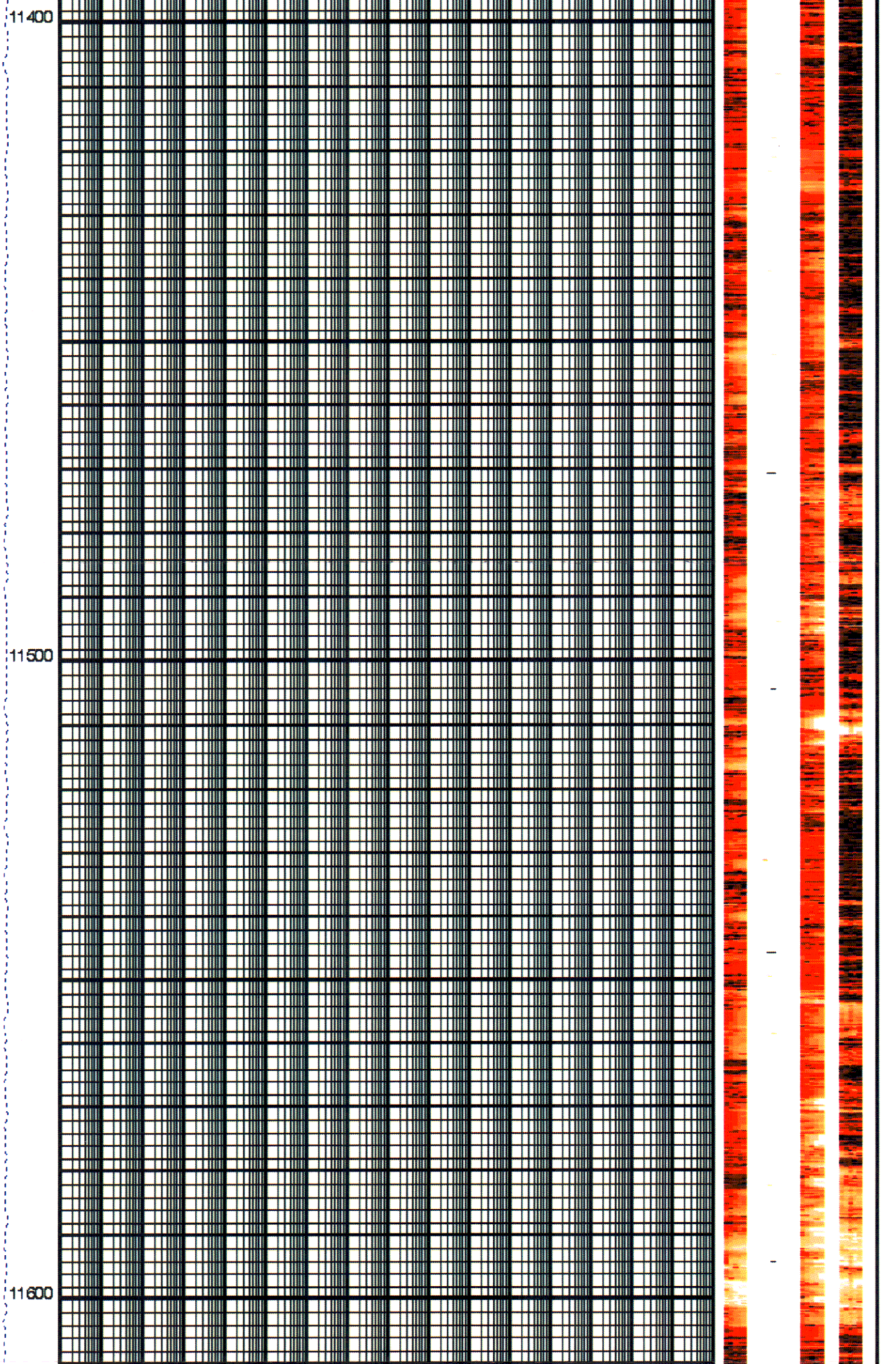
TENS
11300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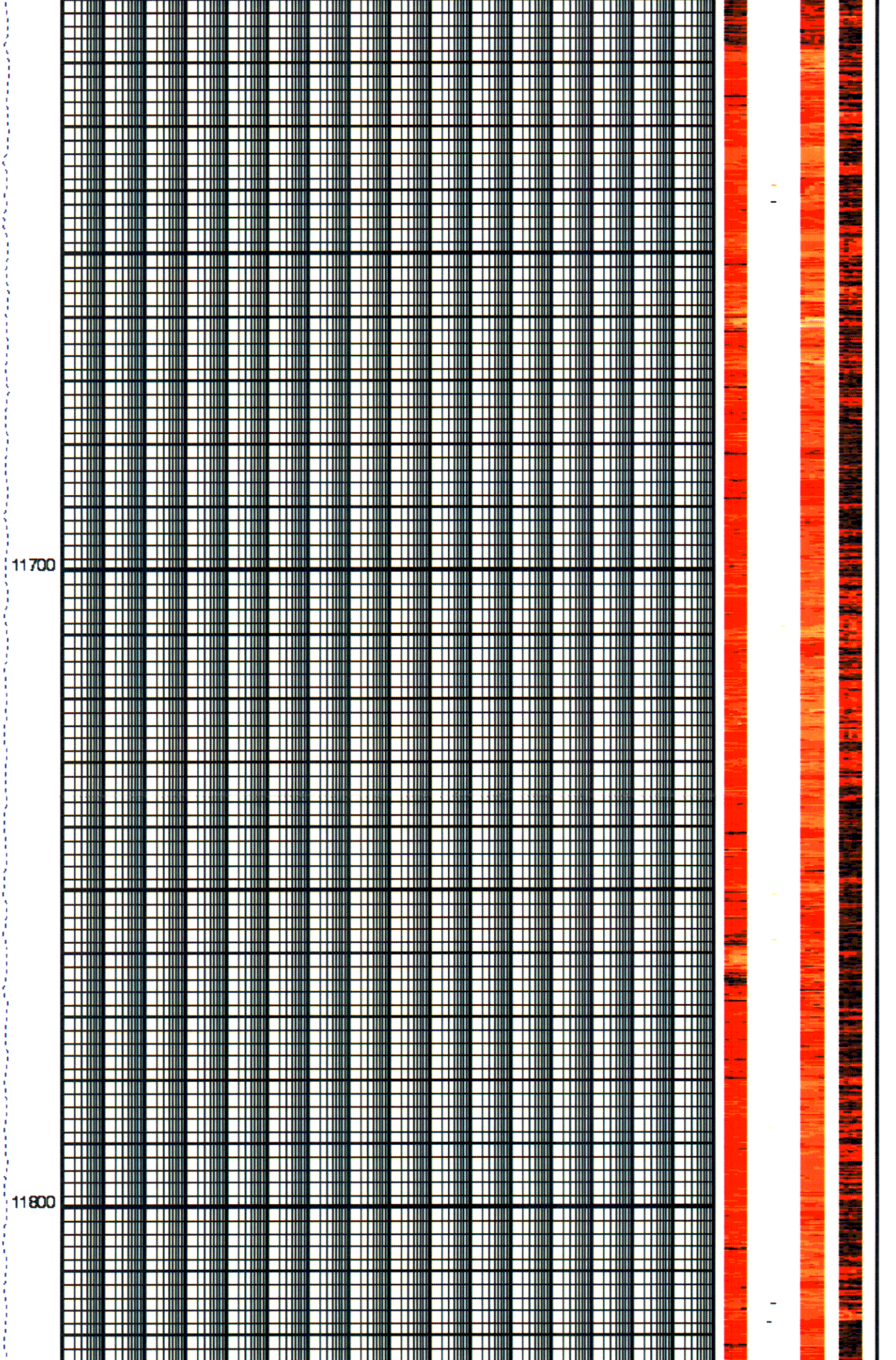
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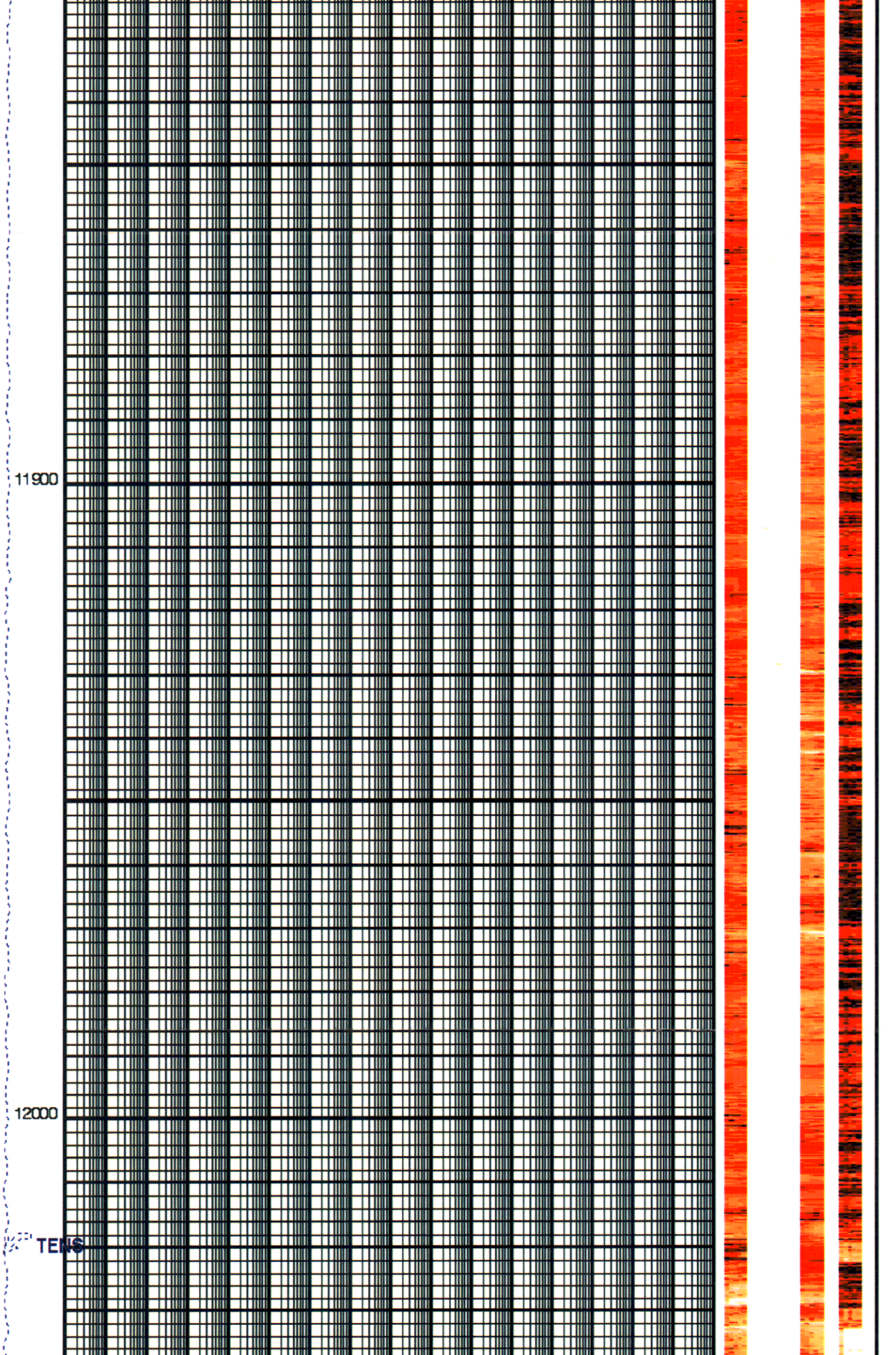
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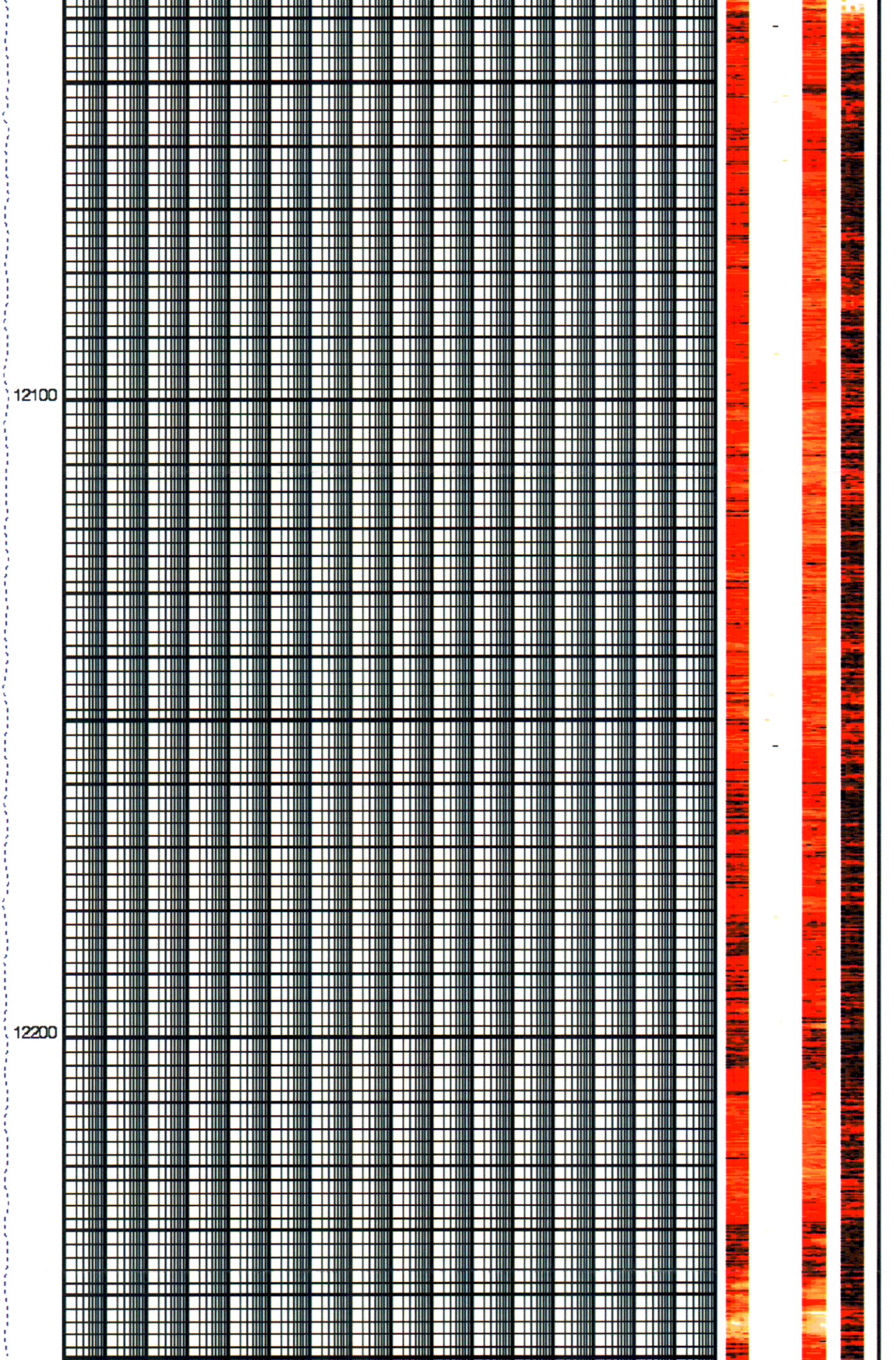
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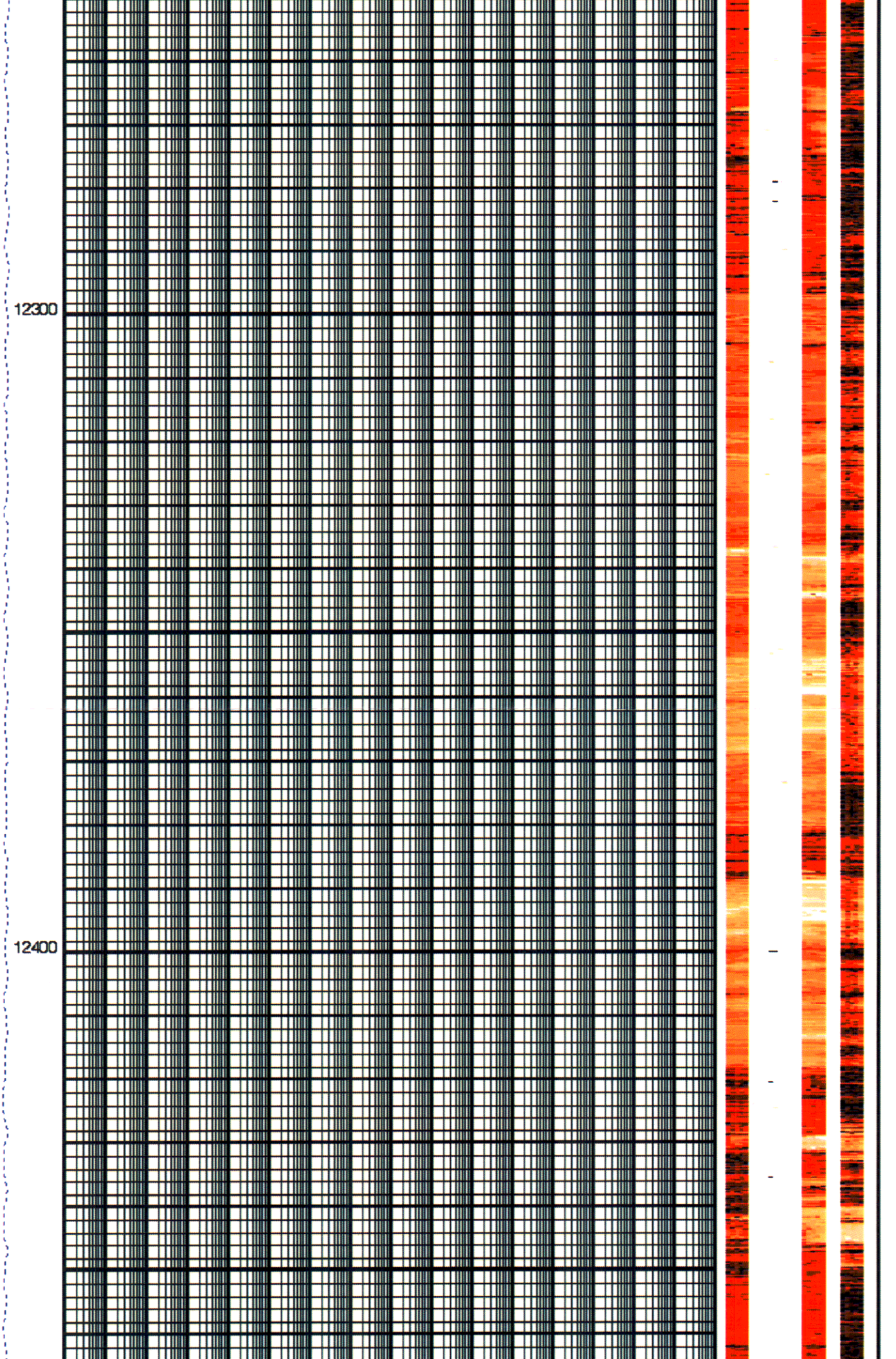
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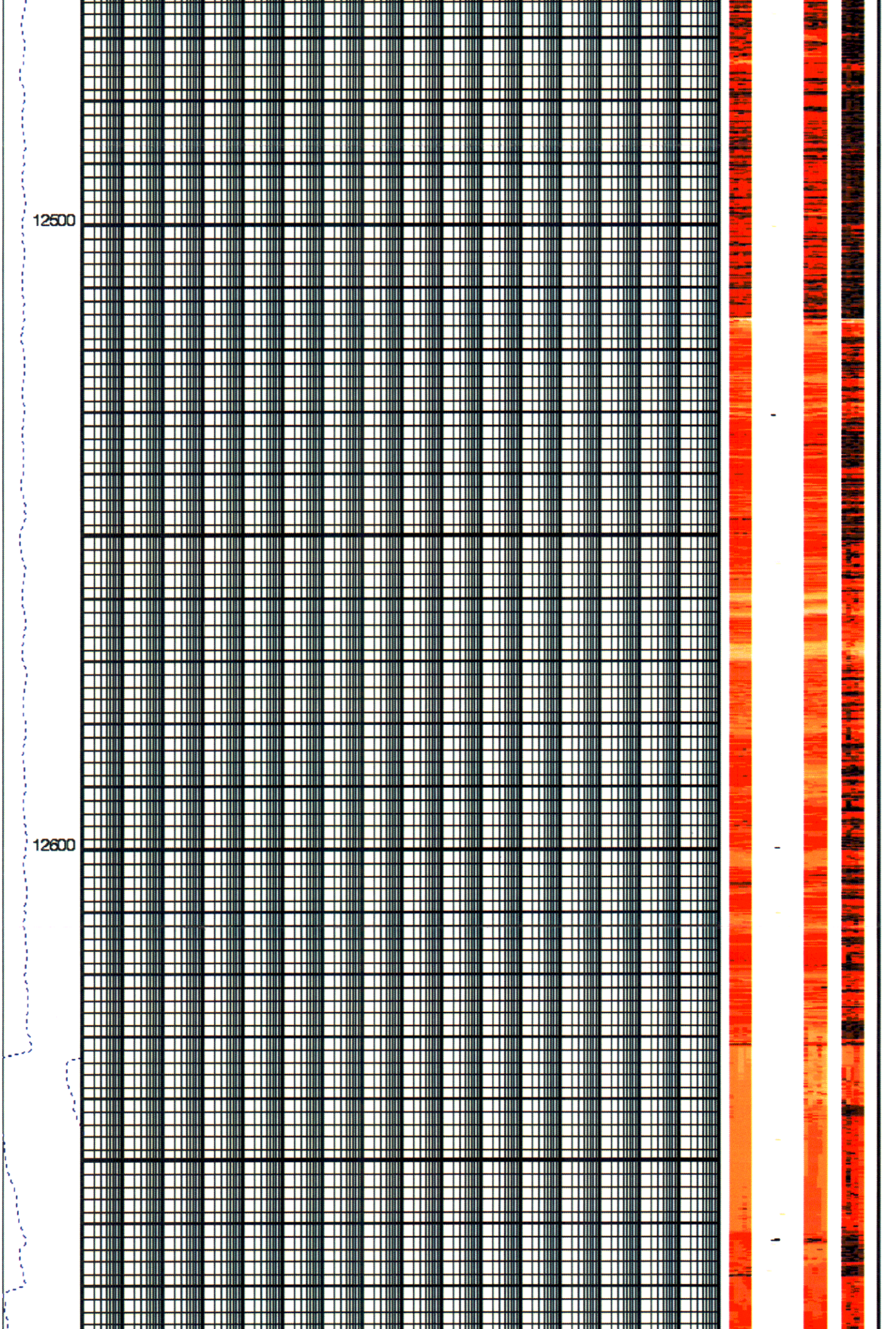
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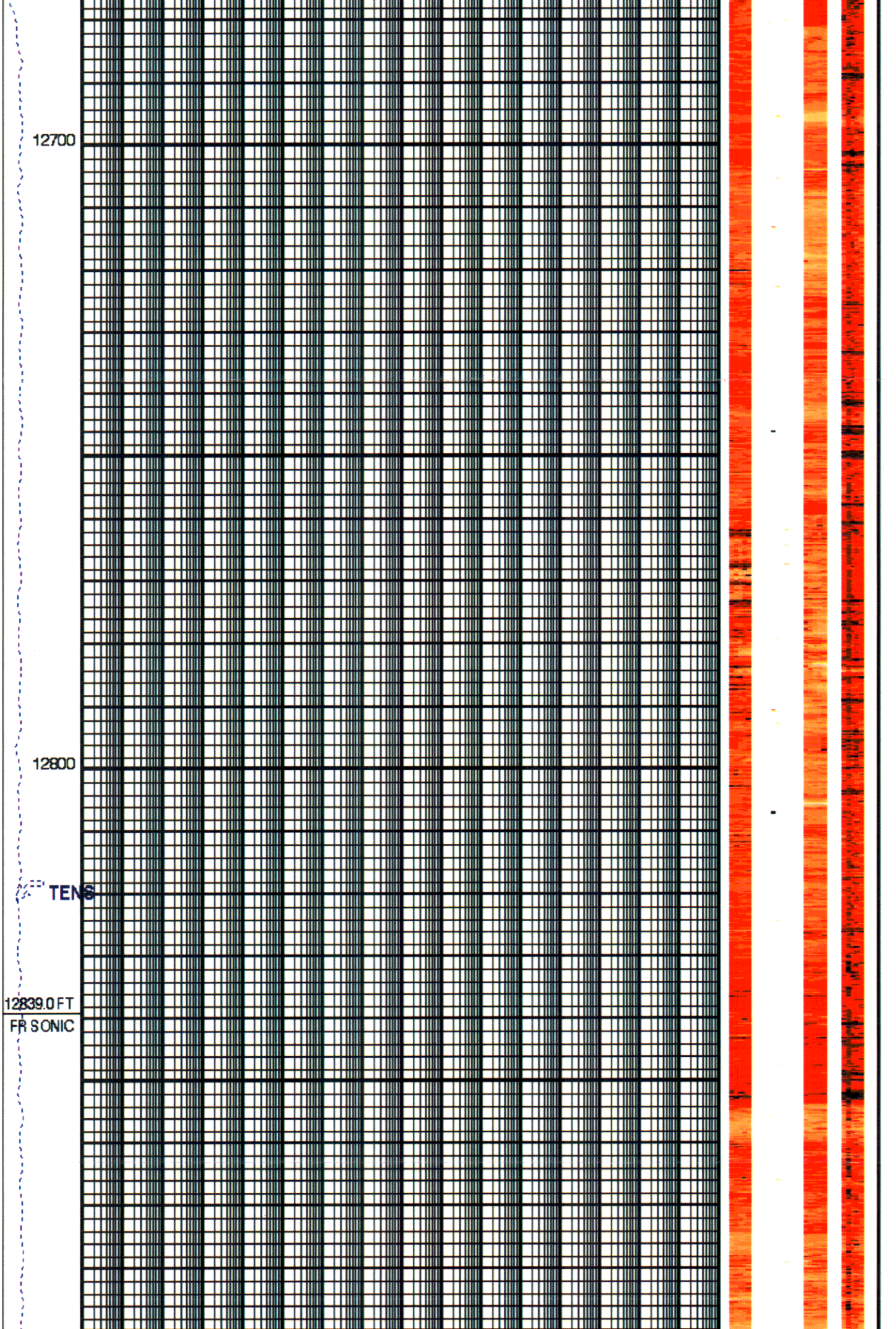
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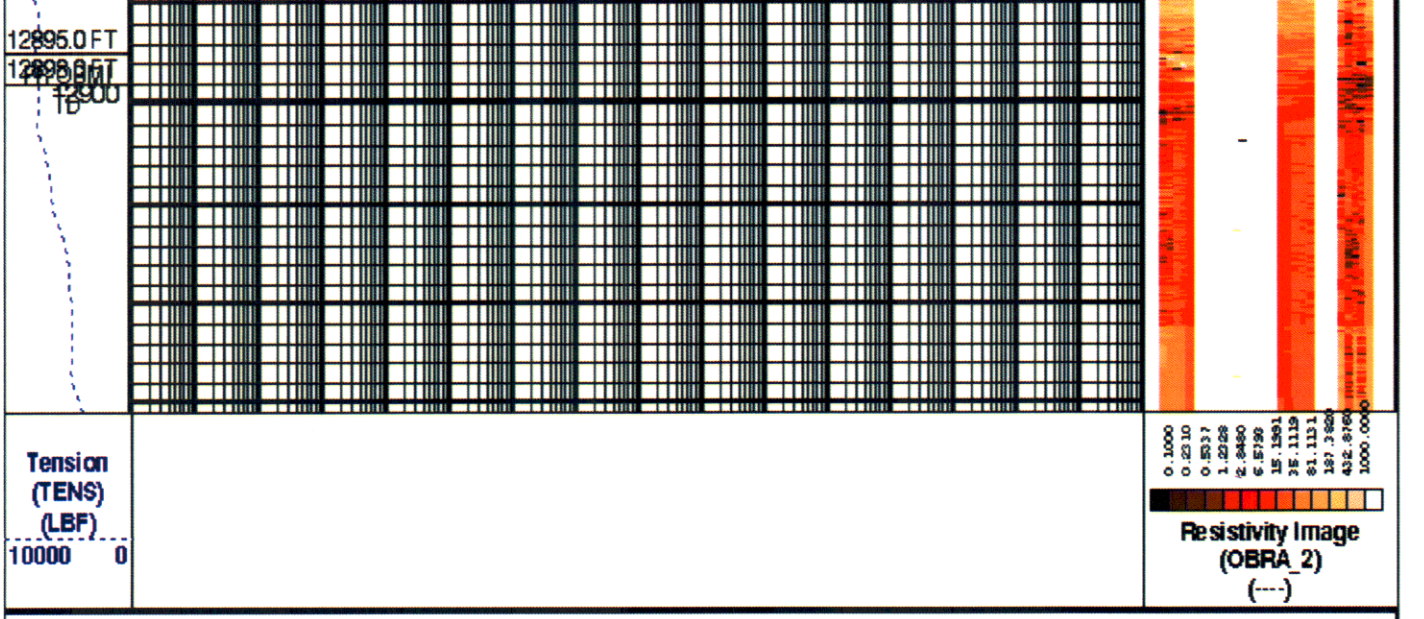
12800
TENS
12839.0 FT
FR SONIC



OBMI Image.

Image with no processing applied

! Resistive (White) to Conductive (Black) !

Format: OBMTB2_RESISTIVITY_LQC Vertical Scale: 5" per 100' Graphics File Created: 22-Jan-2011 08:11

OP System Version: 19C0-187

OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

Parameters

DLIS Name	Description	Value	
OBMT-D2: Oil Base Mud Formation Imager Tool D			
OBFR_2	OBMT2 Frame Rate	1800_FPH	
OBKF_2	OBMT K Factor	8	M
OBSM_2	Downhole Injection Switched Mode	ON	
ODCLA_2	OBMT2 Downhole Algorithm	MAX2_AUTO	
OIAE_2	Pad A Enable	YES	
OIBE_2	Pad B Enable	YES	
OICE_2	Pad C Enable	YES	
OICLM_2	Injection Control Loop Mode	DOWNHOLE_AUTO	
OIDE_2	Pad D Enable	YES	
OIMAX_2	Injection Maximum Voltage	334	V
OIVA_2	Injection Amplitude PAD A (Manual Selection)	0	V
OIVB_2	Injection Amplitude PAD B (Manual Selection)	0	V
OIVC_2	Injection Amplitude PAD C (Manual Selection)	0	V
OIVD_2	Injection Amplitude PAD D (Manual Selection)	0	V
OPGA_2	Electronic Gain PAD A (Manual Selection)	0_dB	
OPGB_2	Electronic Gain PAD B (Manual Selection)	0_dB	
OPGC_2	Electronic Gain PAD C (Manual Selection)	0_dB	
OPGD_2	Electronic Gain PAD D (Manual Selection)	0_dB	
OZLA_2	OBMT2 Pad A Leakage Impedance	1600	KOHM
OZLB_2	OBMT2 Pad B Leakage Impedance	1600	KOHM
OZLC_2	OBMT2 Pad C Leakage Impedance	1600	KOHM
OZLD_2	OBMT2 Pad D Leakage Impedance	1600	KOHM
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT
TIVD	TVD of Tie-in Point	0	FT
System and Miscellaneous			
DO	Depth Offset for Playback	19.0	FT
PP	Playback Processing	OFF	

Input DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

Output DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11

Company: OXY US LA BASIN

Well: DOM-001

Input DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

Output DLIS Files

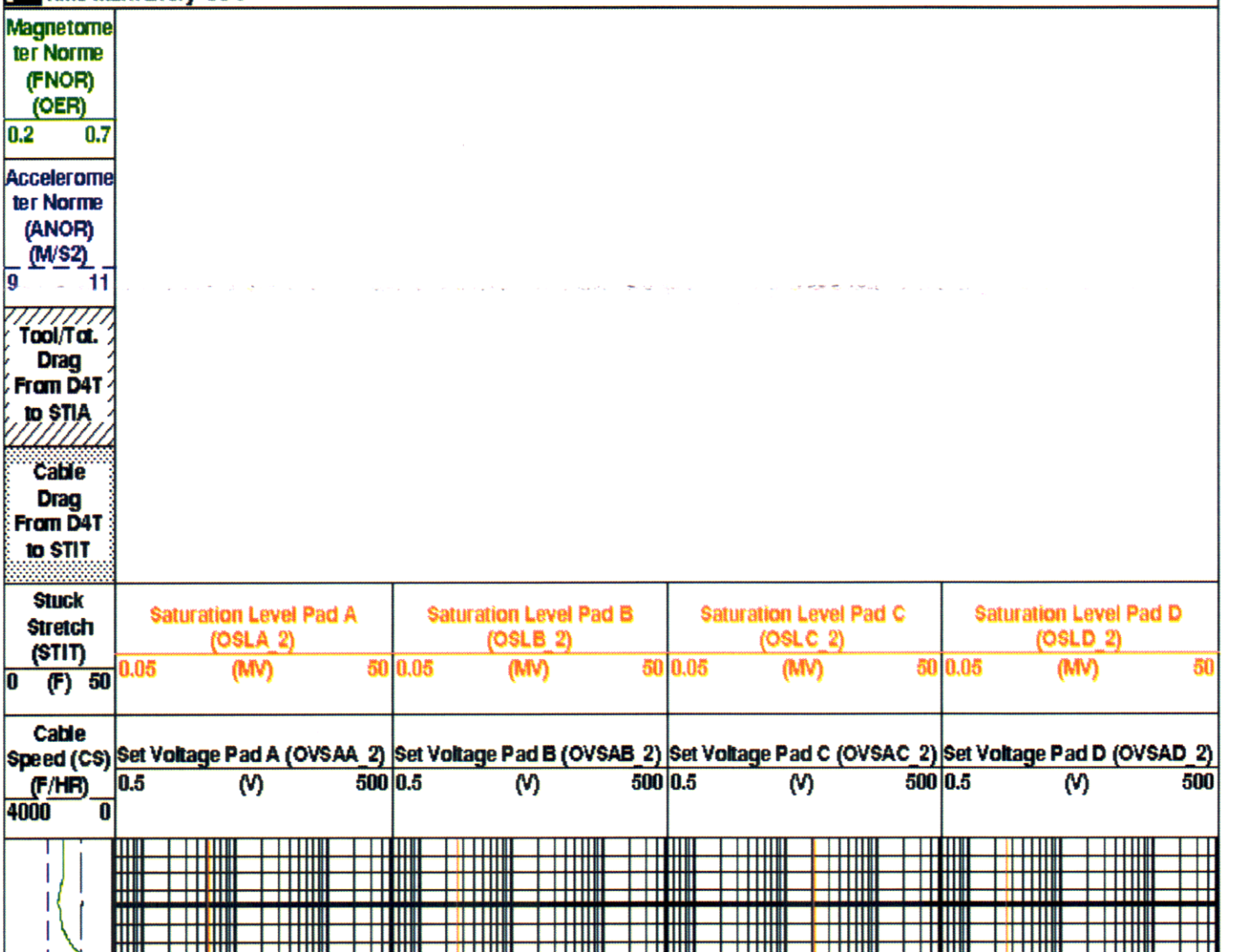
DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT

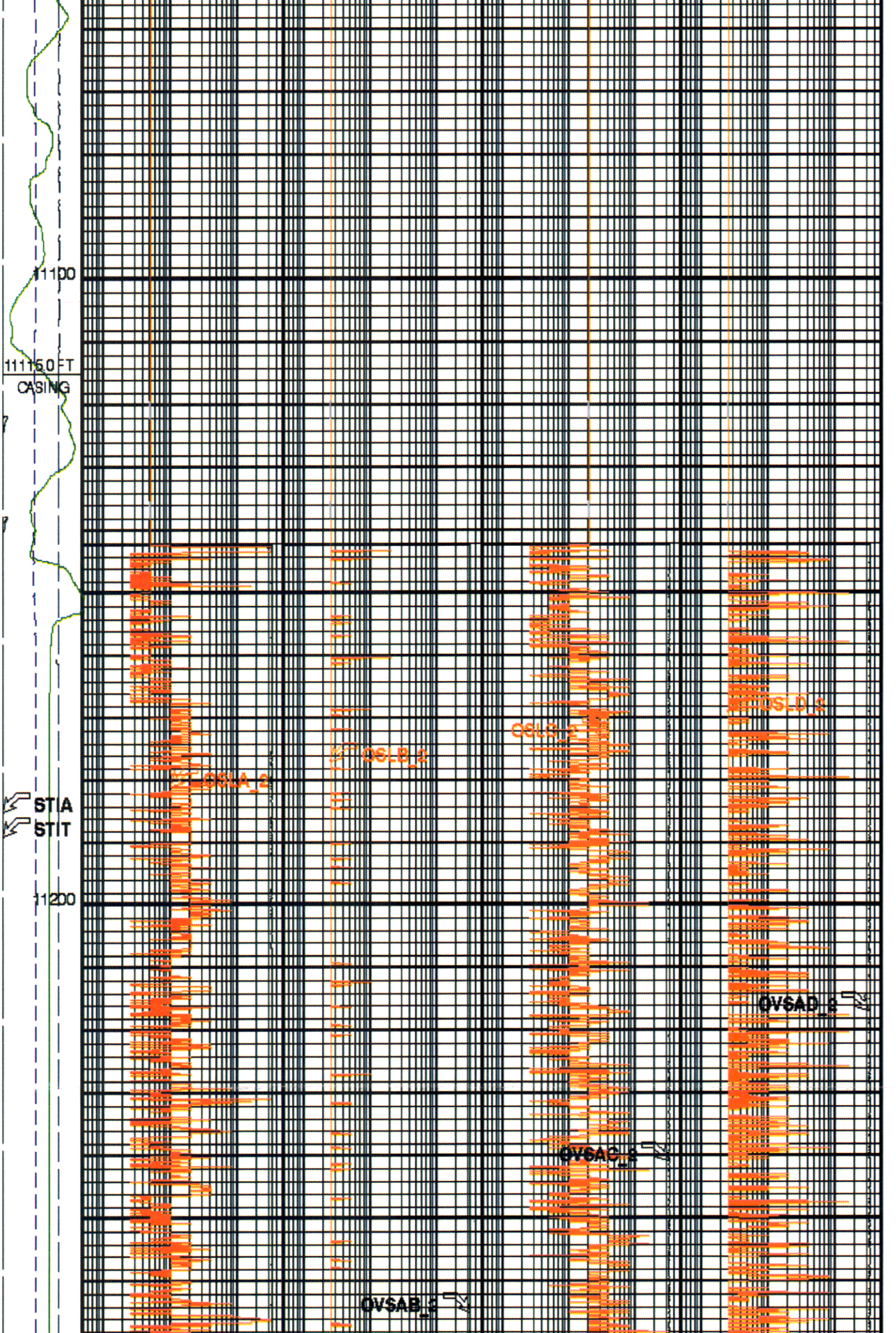
OP System Version: 19C0-187

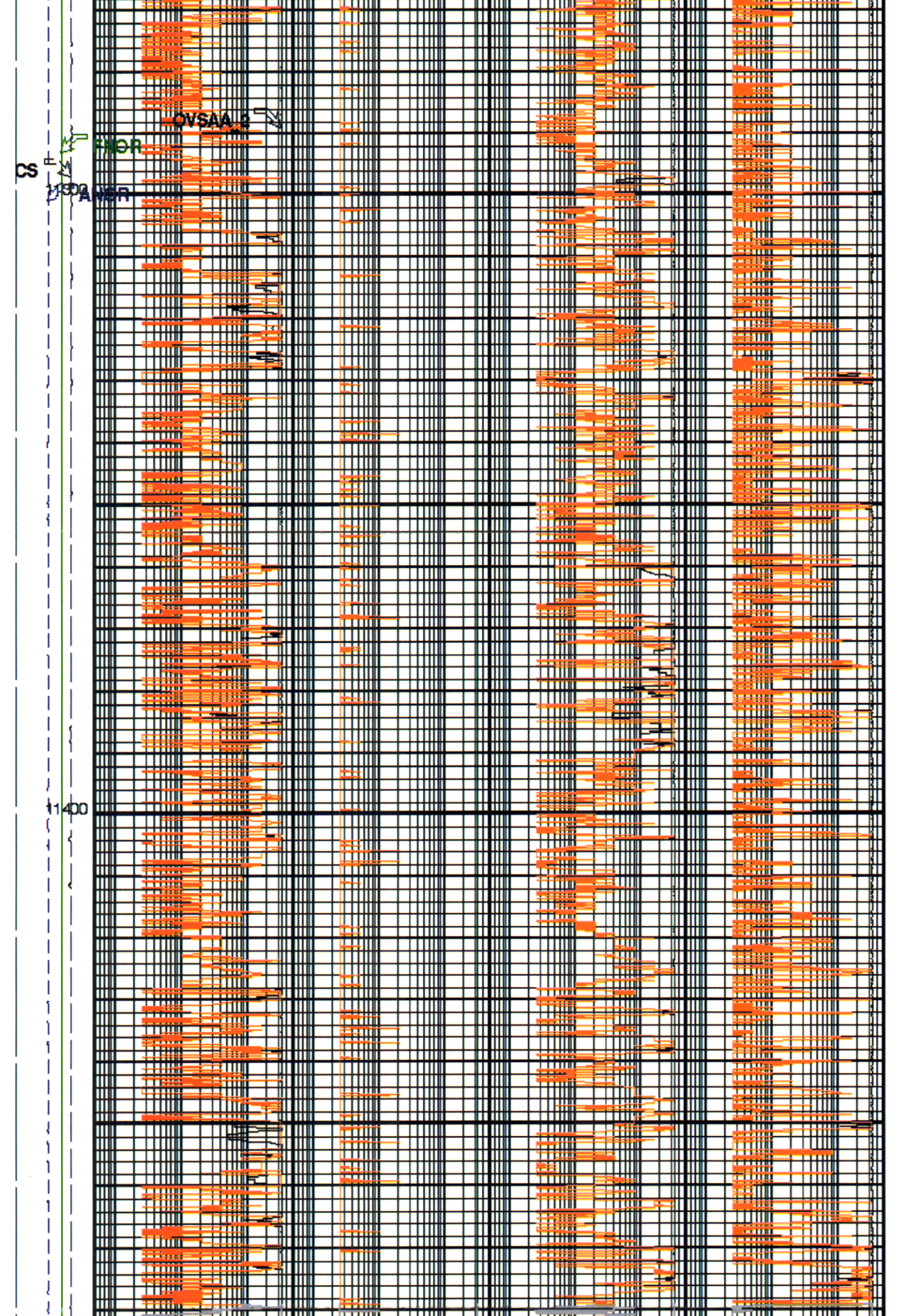
OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

PIP SUMMARY

Time Mark Every 60 S




11100
11115.0 FT
CASING
STIA
STIT
11200
OSLA_2
OSLB_2
OSLC_2
OSLD_2
OVSAD_2
OVSAC_2
OVSAB_2


OVSAA_2
FNOR
CS
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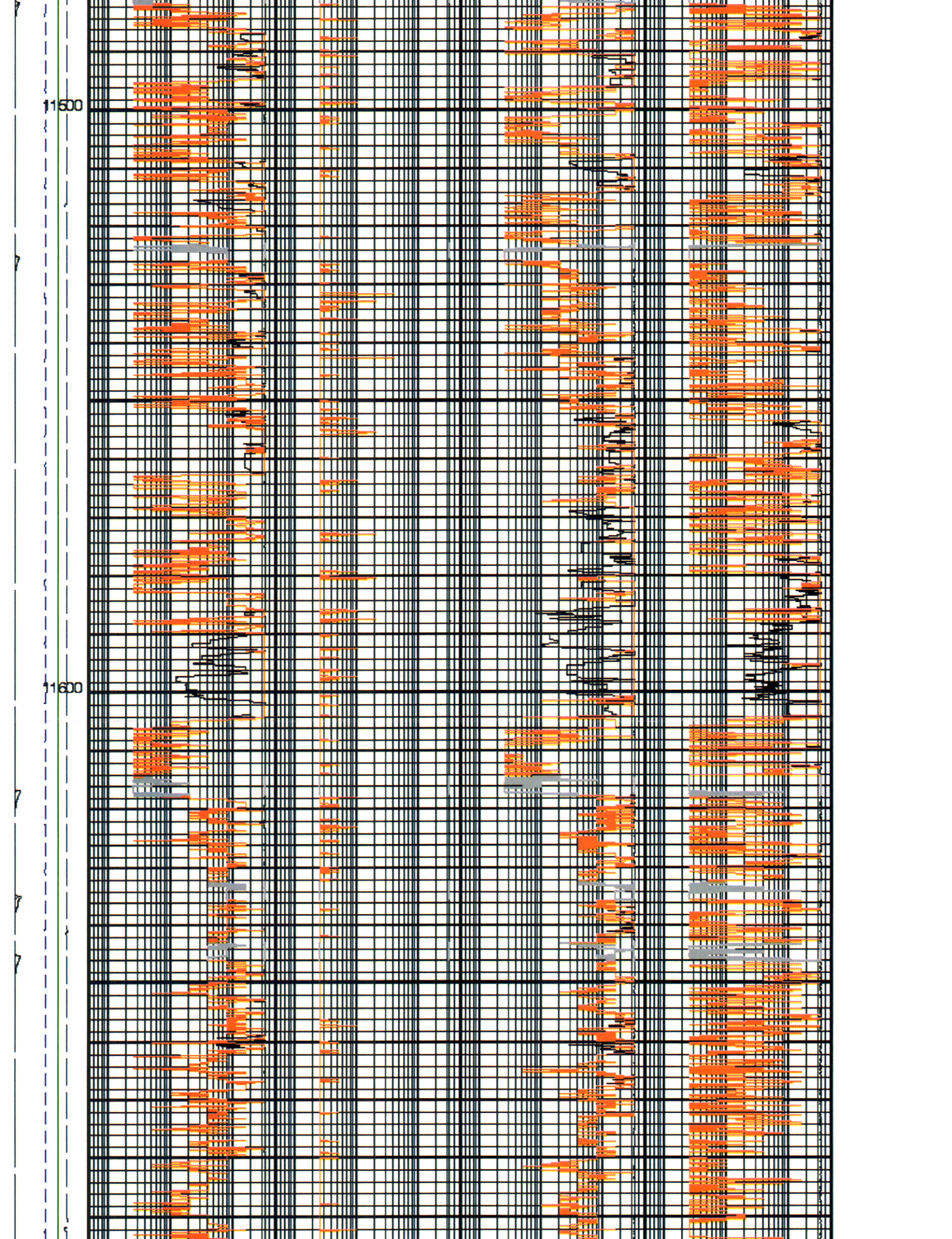
ANER
11400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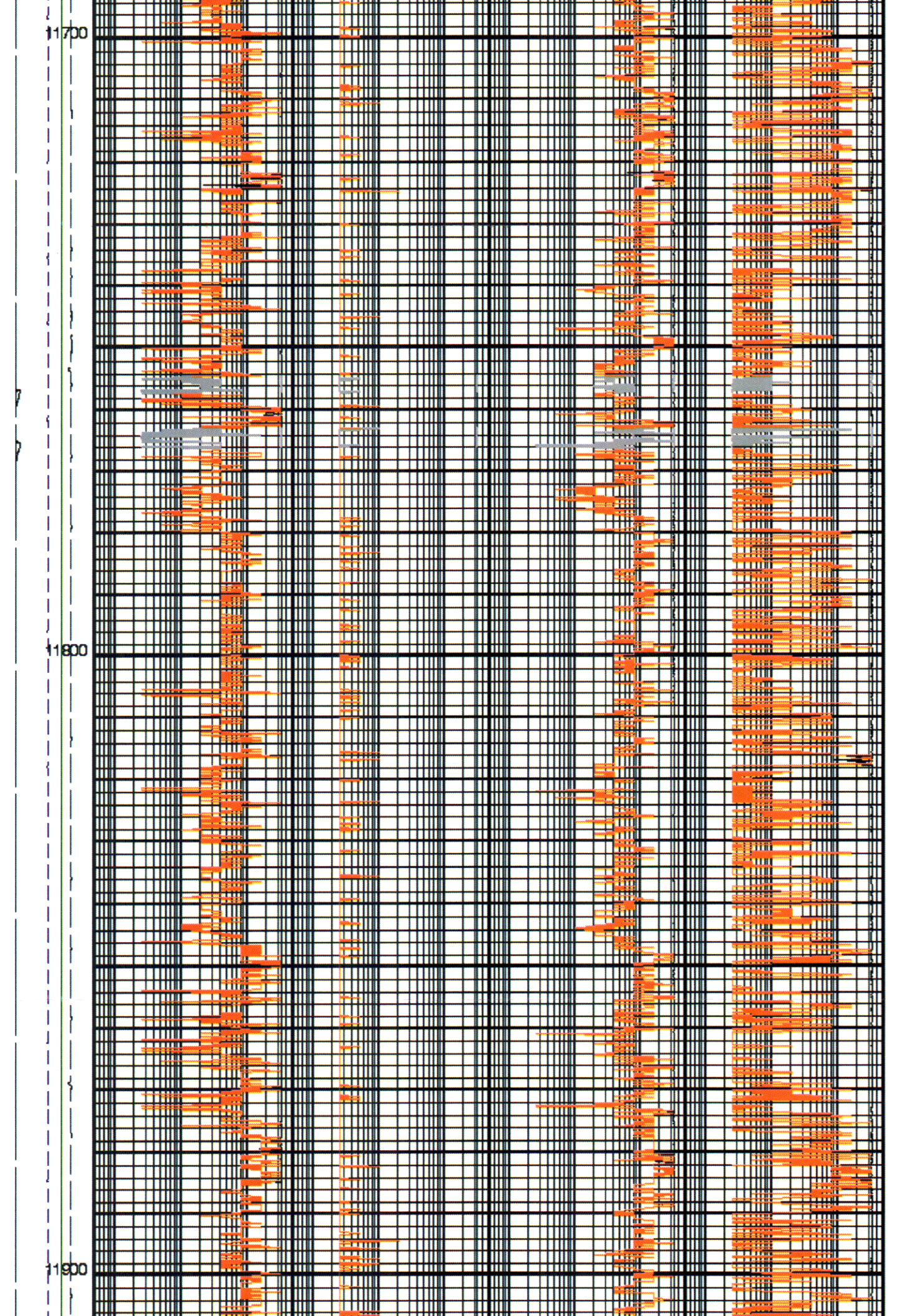
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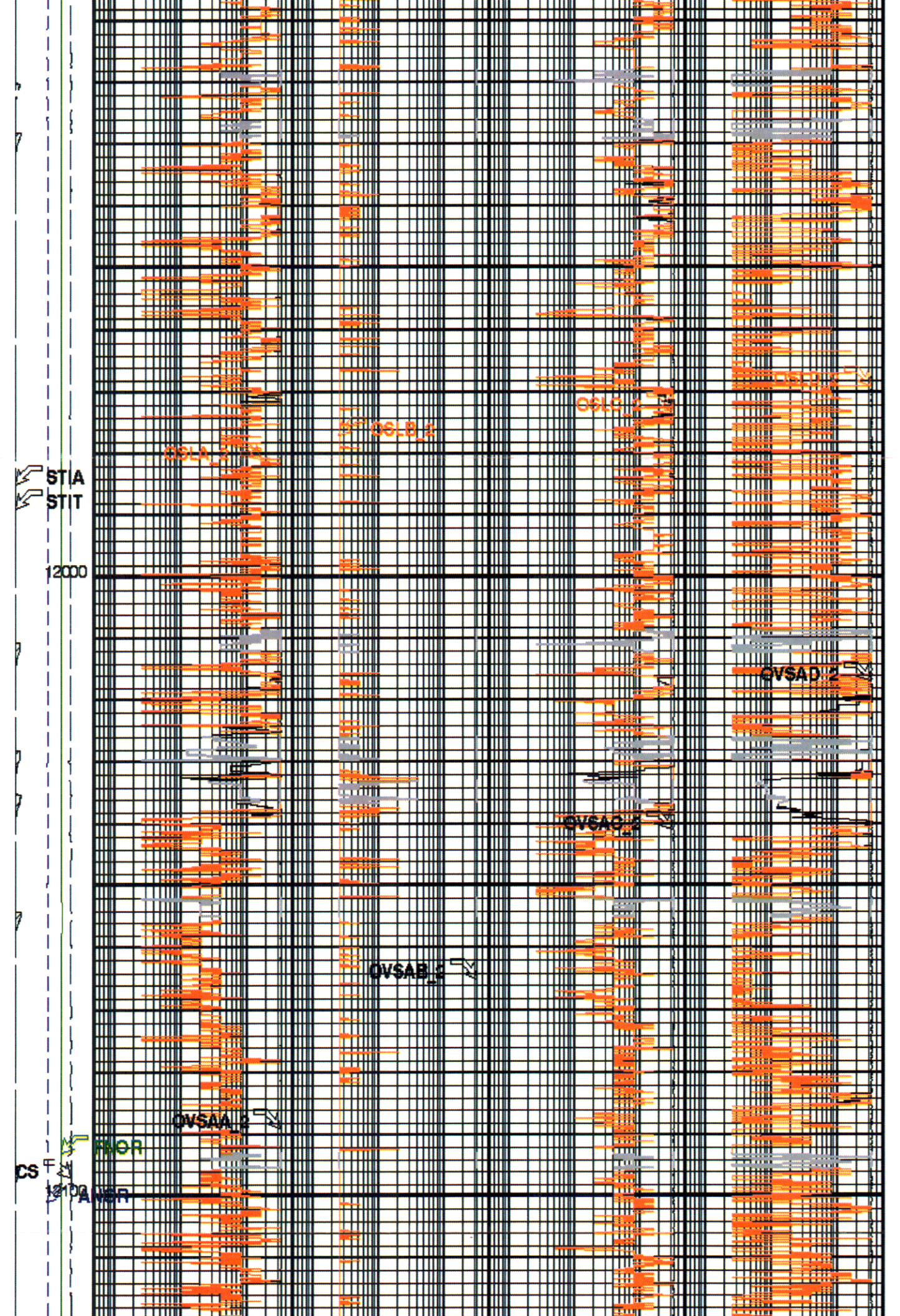
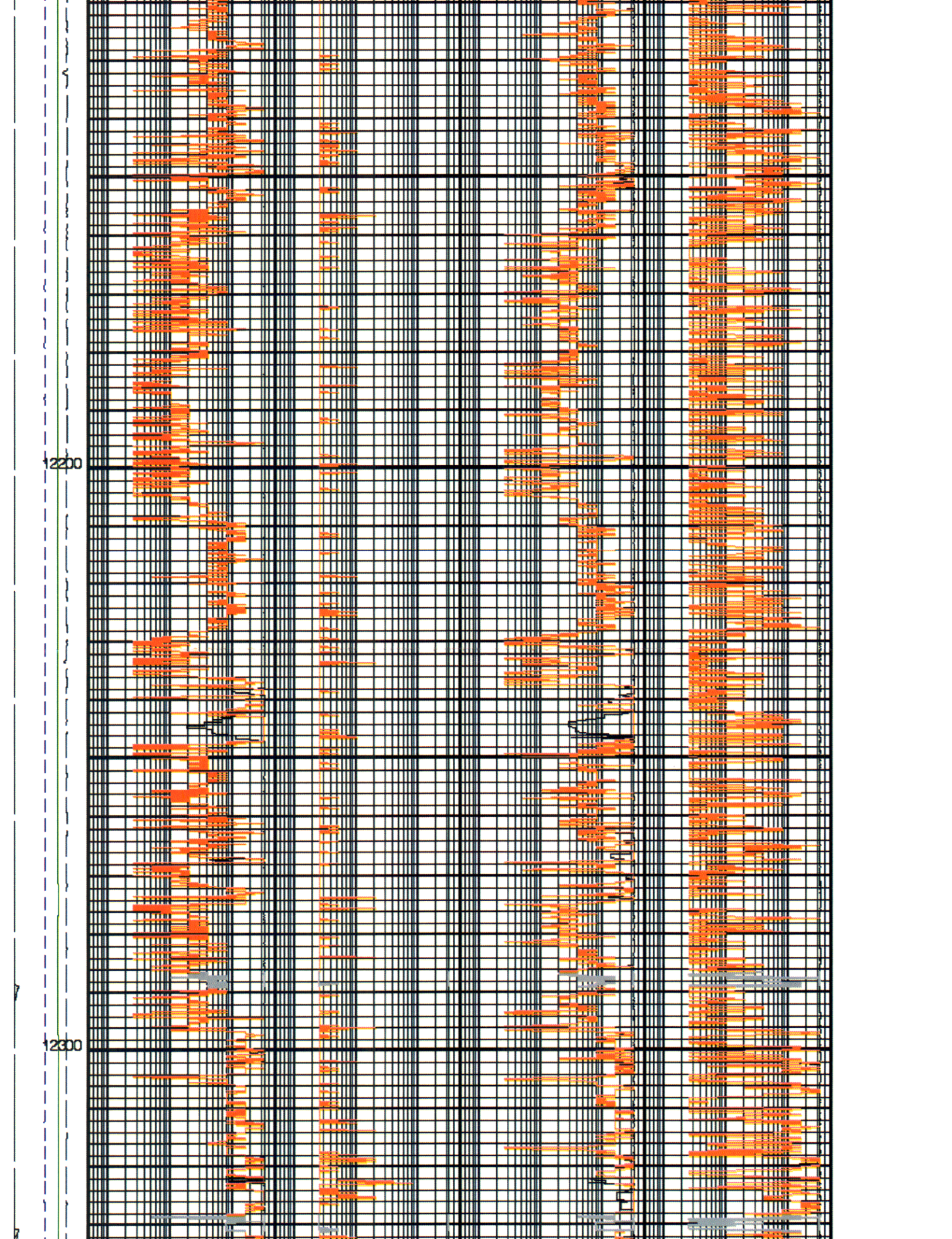

OSLC_2
OSLB_2
OSLA_2
STIA
STIT
12000
OVSAD_2
OVSAC_2
OVSAB_2
OVSAA_2
FNOR
CS
12100
ANSR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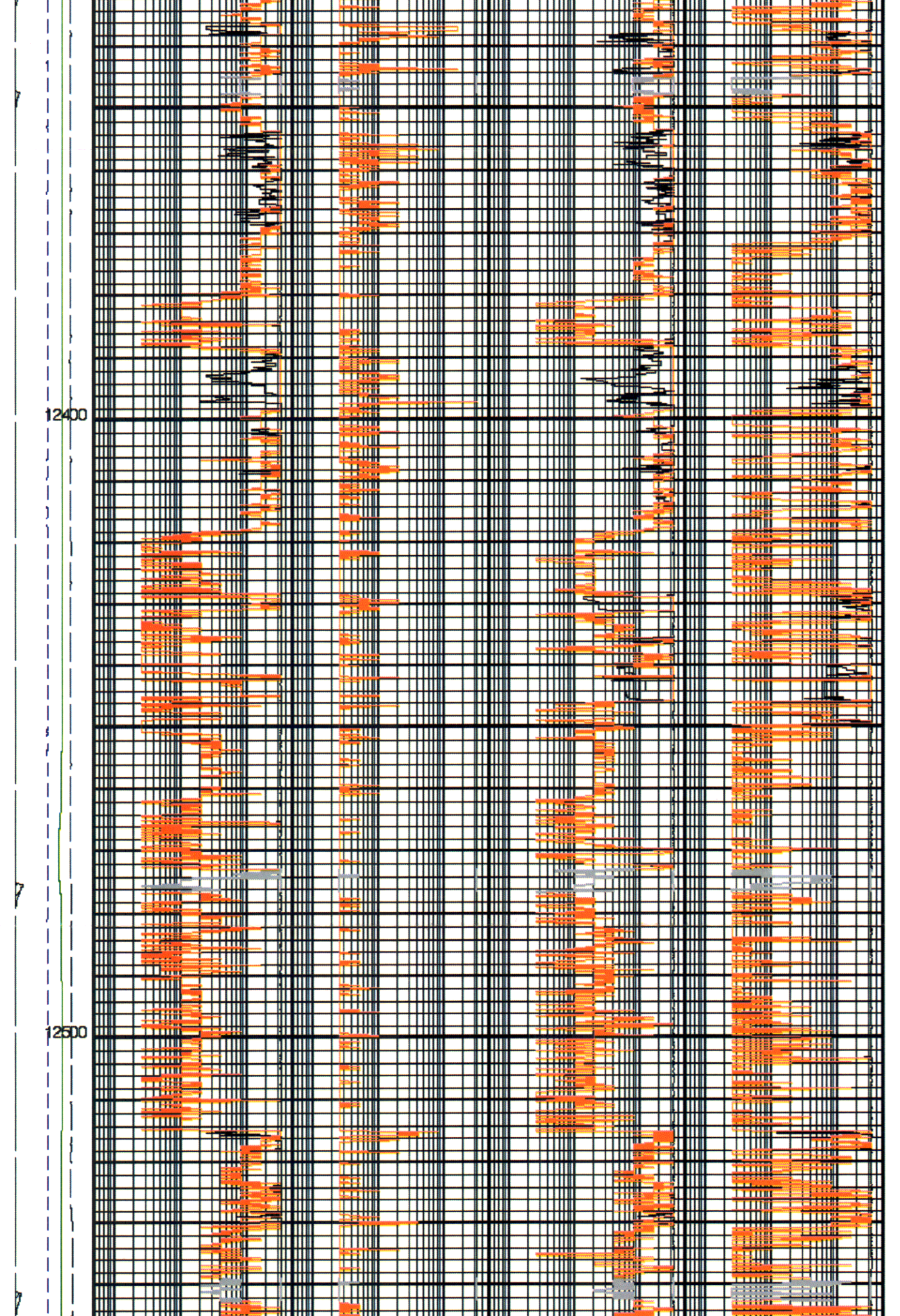
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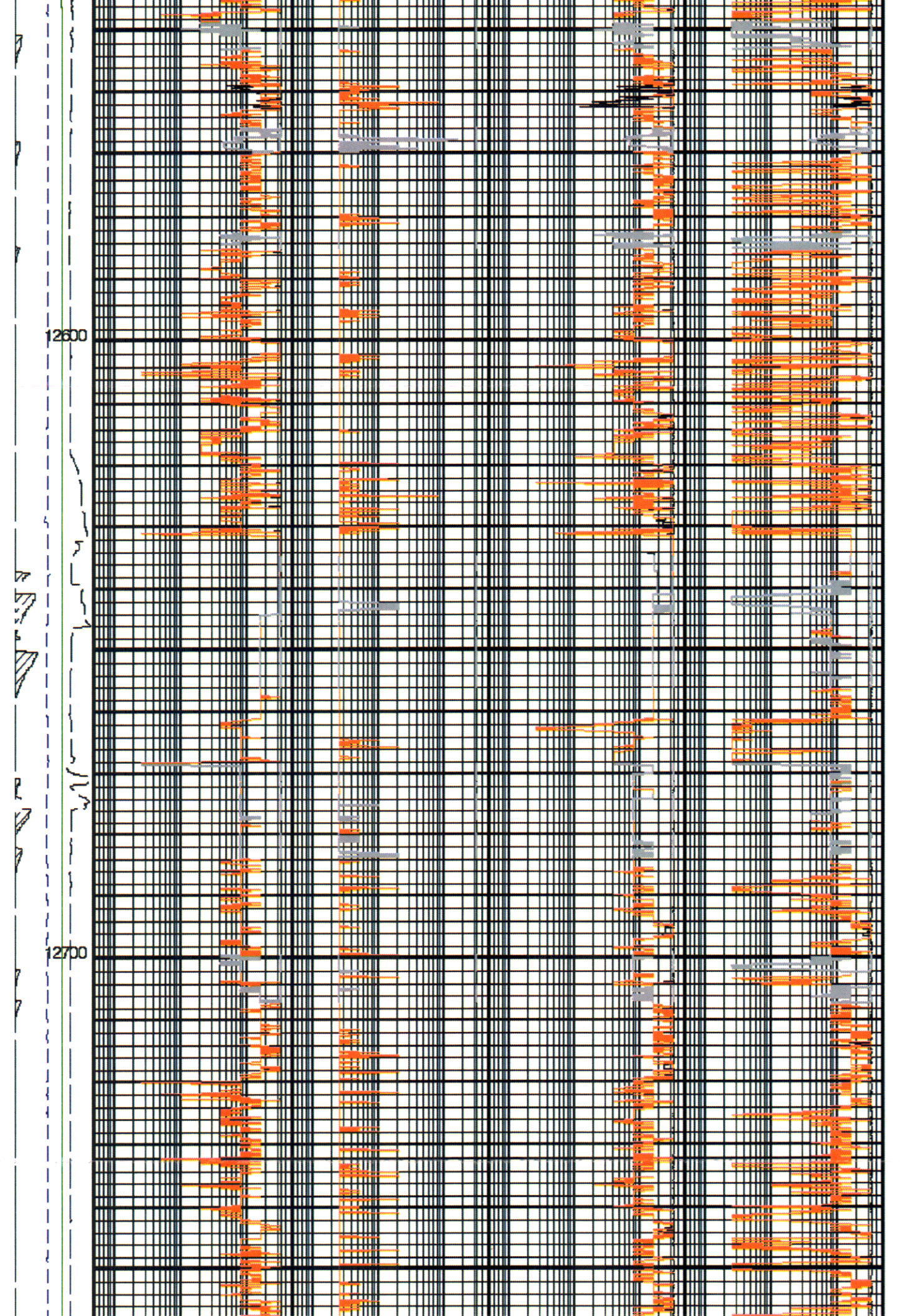
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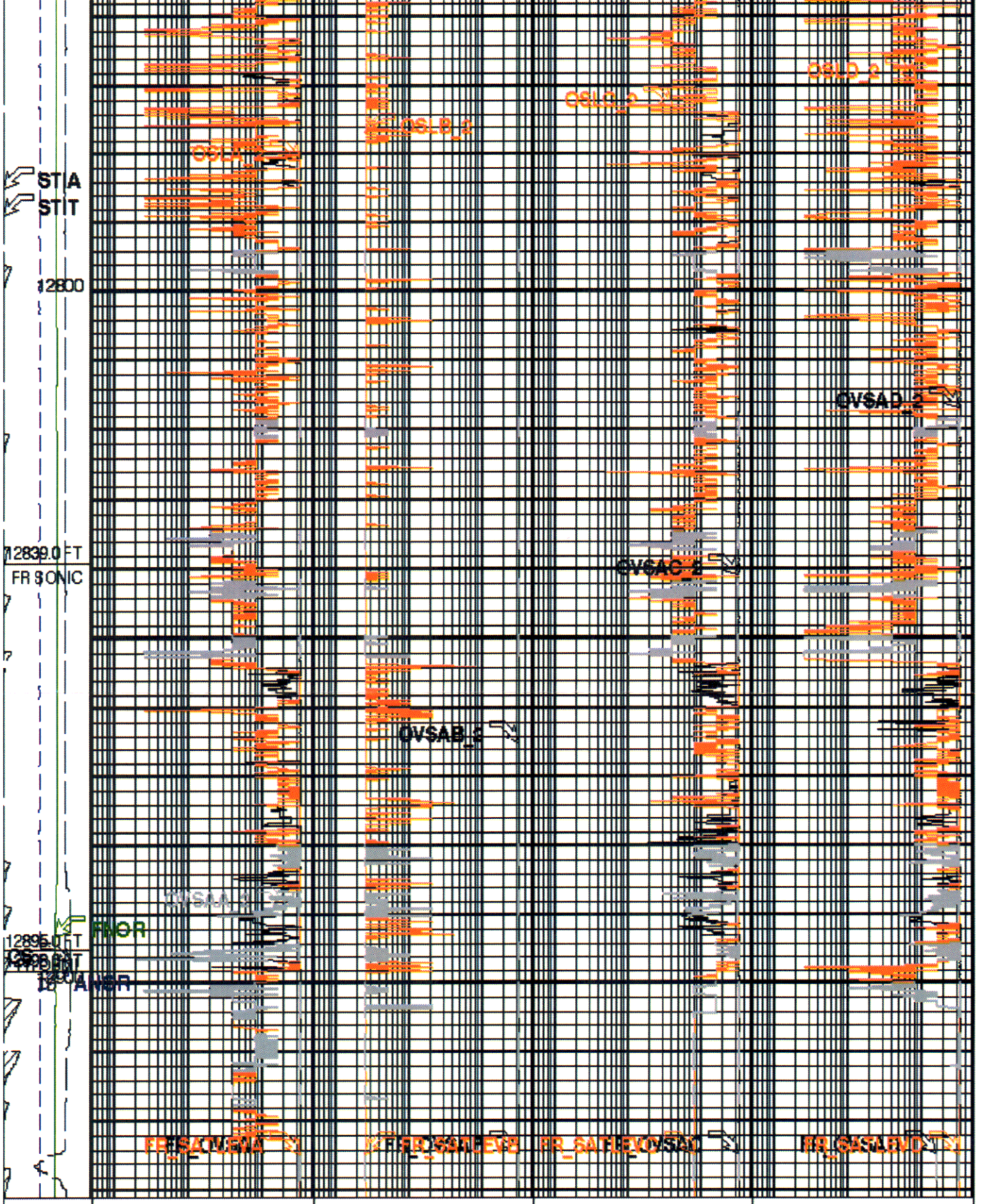


Cable Speed (CS) (F/HR) 4000 0	Set Voltage Pad A (OVSAA_2) 0.5 (V) 500	Set Voltage Pad B (OVSAB_2) 0.5 (V) 500	Set Voltage Pad C (OVSAC_2) 0.5 (V) 500	Set Voltage Pad D (OVSAD_2) 0.5 (V) 500
Stuck Stretch (STIT) 0 (F) 50	Saturation Level Pad A (OSLA_2) 0.05 (MV) 50	Saturation Level Pad B (OSLB_2) 0.05 (MV) 50	Saturation Level Pad C (OSLC_2) 0.05 (MV) 50	Saturation Level Pad D (OSLD_2) 0.05 (MV) 50
Cable Drag From D4T				

to STIT

Tool/Tot. Drag From D4T to STIA

Accelerometer Norme (ANOR) (M/S2)
9 11

Magnetometer Norme (FNOR) (OER)
0.2 0.7

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	OBMT-D2: Oil Base Mud Formation Imager Tool D		
ODCLA_2	OBMT2 Downhole Algorithm	MAX2_AUTO	
OIAE_2	Pad A Enable	YES	
OIBE_2	Pad B Enable	YES	
OICE_2	Pad C Enable	YES	
OICLM_2	Injection Control Loop Mode	DOWNHOLE_AUTO	
OIDE_2	Pad D Enable	YES	
OIMAX_2	Injection Maximum Voltage	334	V
OIVA_2	Injection Amplitude PAD A (Manual Selection)	0	V
OIVB_2	Injection Amplitude PAD B (Manual Selection)	0	V
OIVC_2	Injection Amplitude PAD C (Manual Selection)	0	V
OIVD_2	Injection Amplitude PAD D (Manual Selection)	0	V
OPGA_2	Electronic Gain PAD A (Manual Selection)	0_dB	
OPGB_2	Electronic Gain PAD B (Manual Selection)	0_dB	
OPGC_2	Electronic Gain PAD C (Manual Selection)	0_dB	
OPGD_2	Electronic Gain PAD D (Manual Selection)	0_dB	
	GPIT-F: General Purpose Inclinometer		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	12.5935	DEG
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT
TIVD	TVD of Tie-in Point	0	FT
	STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	12885.00	FT
TDL	Total Depth - Logger	12894.00	FT
	System and Miscellaneous		
DO	Depth Offset for Playback	19.0	FT
PP	Playback Processing	OFF	

Format: OBMTB2_TEVAL Vertical Scale: 5" per 100' Graphics File Created: 22-Jan-2011 08:11

OP System Version: 19C0-187

OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

Input DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_045LUP	FN:77	PRODUCER	22-Jan-2011 05:45	12912.0 FT	11023.0 FT

Output DLIS Files

DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11

Schlumberger

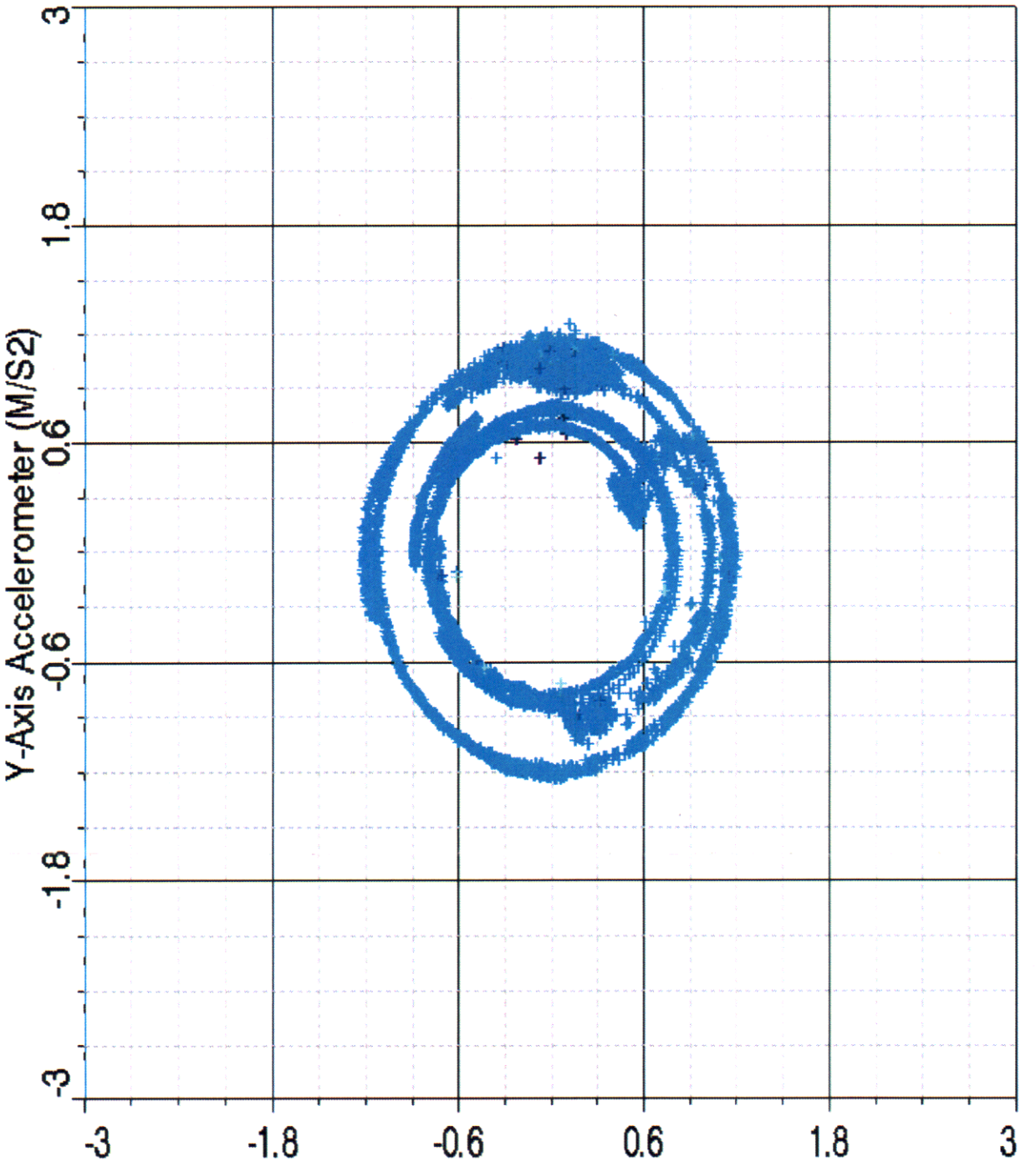
PLOTS

MAXIS Field Log

Index: 12931.0 - 11042.1 FT

Z-Axis Accelerometer (M/S2)

9. 11.



X-Axis Accelerometer (M/S2)

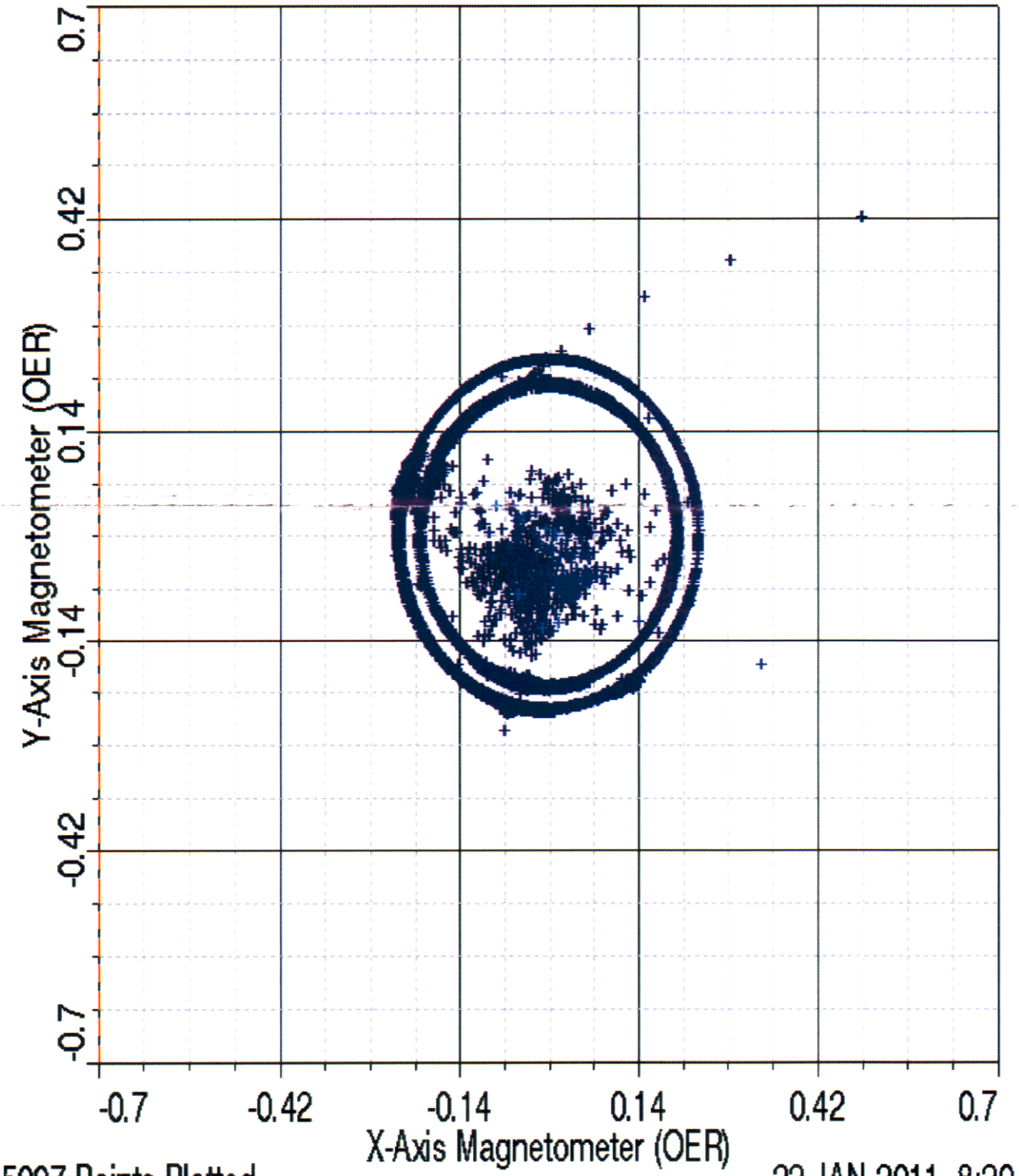
15112 Points Plotted

22-JAN-2011 8:20

Z-Axis Magnetometer (OER)

Index: 12931.0 - 11042.1 FT

-0.7 0.7



15097 Points Plotted

22-JAN-2011 8:20

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Oil Base Mud Formation Imager Tool D Wellsite Calibration - Caliper Calibration							
Before: 15-Jan-2011 12:30							
Caliper 1 Small Jig	8.000	N/A	9.028	N/A	N/A	N/A	IN
Caliper 2 Small Jig	8.000	N/A	8.944	N/A	N/A	N/A	IN
Caliper 1 Large Jig	12.00	N/A	13.15	N/A	N/A	N/A	IN
Caliper 2 Large Jig	12.00	N/A	13.02	N/A	N/A	N/A	IN
Slim Thru-wired Oil Base Mud Formation Imager Tool F Wellsite Calibration - Caliper Calibration							
Before: 15-Jan-2011 12:32							
Caliper 1 Small Jig	8.000	N/A	8.646	N/A	N/A	N/A	IN
Caliper 2 Small Jig	8.000	N/A	8.365	N/A	N/A	N/A	IN
Caliper 1 Large Jig	12.00	N/A	12.80	N/A	N/A	N/A	IN
Caliper 2 Large Jig	12.00	N/A	12.59	N/A	N/A	N/A	IN
Powered Positioning Device/Caliper 1 Wellsite Calibration - PPC1 Caliper Calibration							
Before: 15-Jan-2011 12:34							
PPC1 Radius 1 Raw Small Radius	3.500	N/A	4.670	N/A	N/A	0.5000	IN
PPC1 Radius 1 Raw Large Radius	8.000	N/A	9.212	N/A	N/A	0.5000	IN
PPC1 Radius 2 Raw Small Radius	3.500	N/A	3.322	N/A	N/A	0.5000	IN
PPC1 Radius 2 Raw Large Radius	8.000	N/A	7.874	N/A	N/A	0.5000	IN
PPC1 Radius 3 Raw Small Radius	3.500	N/A	4.481	N/A	N/A	0.5000	IN
PPC1 Radius 3 Raw Large Radius	8.000	N/A	8.970	N/A	N/A	0.5000	IN
PPC1 Radius 4 Raw Small Radius	3.500	N/A	3.374	N/A	N/A	0.5000	IN
PPC1 Radius 4 Raw Large Radius	8.000	N/A	7.927	N/A	N/A	0.5000	IN
Multimode Array Sonic Power Cartridge Master Calibration - SSCF Sensor Sensitivity Correction Factor							
Master: 27-Nov-2010 18:28							
SSCF Minimum	1.000	0.9272	–	–	–	–	---
SSCF Maximum	1.000	1.074	–	–	–	–	---
Multimode Array Sonic Power Cartridge Master Calibration - SSCR Sensor Sensitivity Correction Factor LF to HF Ratio							
Master: 27-Nov-2010 18:28							
SSCR Minimum	1.000	0.9406	–	–	–	–	---
SSCR Maximum	1.000	1.097	–	–	–	–	---
Multimode Array Sonic Power Cartridge Master Calibration - STDF Sensor Time Delay Factor							
Master: 27-Nov-2010 18:28							
STDF Minimum	0	-0.8820	–	–	–	–	US
STDF Maximum	0	1.133	–	–	–	–	US
Powered Positioning Device/Caliper 2 Wellsite Calibration - PPC2 Caliper Calibration							
Before: 15-Jan-2011 12:36							
PPC2 Radius 1 Raw Small Radius	3.500	N/A	4.000	N/A	N/A	0.5000	IN
PPC2 Radius 1 Raw Large Radius	8.000	N/A	8.319	N/A	N/A	0.5000	IN
PPC2 Radius 2 Raw Small Radius	3.500	N/A	3.510	N/A	N/A	0.5000	IN
PPC2 Radius 2 Raw Large Radius	8.000	N/A	8.095	N/A	N/A	0.5000	IN
PPC2 Radius 3 Raw Small Radius	3.500	N/A	4.250	N/A	N/A	0.5000	IN
PPC2 Radius 3 Raw Large Radius	8.000	N/A	8.674	N/A	N/A	0.5000	IN
PPC2 Radius 4 Raw Small Radius	3.500	N/A	3.674	N/A	N/A	0.5000	IN
PPC2 Radius 4 Raw Large Radius	8.000	N/A	8.070	N/A	N/A	0.5000	IN
Enhanced DTS Cartridge Wellsite Calibration - EDTC Accelerometer Calibration							
Before: 22-Jan-2011 3:55							
EDTC Z-Axis Acceleration	32.19	N/A	32.07	N/A	N/A	N/A	F/S2
Enhanced DTS Cartridge Wellsite Calibration - Detector Calibration							
Before: 15-Jan-2011 12:47							
Gamma Ray (Jig - Bkg)	152.5	N/A	152.5	N/A	N/A	13.86	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Oil Base Mud Formation Imager Tool D / Equipment Identification

Primary Equipment:

Oil Base Mud Formation Imager Sonde	OBMS - C	761
Oil Base Mud Formation Imager Cartridge	OBMC - B	834

Auxiliary Equipment:

Oil Base Mud Formation Imager Housing	OBMH - C	832

Oil Base Mud Formation Imager Tool D Wellsite Calibration

Caliper Calibration

Phase	Caliper 1 Small Jig IN	Value	Phase	Caliper 2 Small Jig IN	Value
Before		9.028	Before		8.944
6.800 (Minimum)	8.000 (Nominal) 9.200 (Maximum)		6.800 (Minimum)	8.000 (Nominal) 9.200 (Maximum)	
Phase	**Caliper 1 Large Jig IN**	**Value**	**Phase**	**Caliper 2 Large Jig IN**	**Value**
Before		13.15	Before		13.02
10.20 (Minimum)	12.00 (Nominal) 13.80 (Maximum)		10.20 (Minimum)	12.00 (Nominal) 13.80 (Maximum)	

Before: 15-Jan-2011 12:30

Slim Thru-wired Oil Base Mud Formation Imager Tool F / Equipment Identification

Primary Equipment:		
Slim Thru-wired Oil Base Mud Formation I	OBMS - F	776
Oil Base Mud Formation Imager Cartridge	OBMC - A	
Auxiliary Equipment:		
Oil Base Mud Formation Imager Housing	OBMH - A	773

Slim Thru-wired Oil Base Mud Formation Imager Tool F Wellsite Calibration

Caliper Calibration

Phase	Caliper 1 Small Jig IN	Value	Phase	Caliper 2 Small Jig IN	Value
Before		8.646	Before		8.365
6.800 (Minimum)	8.000 (Nominal) 9.200 (Maximum)		6.800 (Minimum)	8.000 (Nominal) 9.200 (Maximum)	
Phase	**Caliper 1 Large Jig IN**	**Value**	**Phase**	**Caliper 2 Large Jig IN**	**Value**
Before		12.80	Before		12.59
10.20 (Minimum)	12.00 (Nominal) 13.80 (Maximum)		10.20 (Minimum)	12.00 (Nominal) 13.80 (Maximum)	

Before: 15-Jan-2011 12:32

General Purpose Inclinometer / Equipment Identification

Primary Equipment:		
GPIT Cartridge - F	GPIC - F	790
Auxiliary Equipment:		
GPIT Housing - F	GPIH - B	2945

Powered Positioning Device/Caliper 1 / Equipment Identification

Primary Equipment:		
PPC Powered Positioning Device/Caliper	PPC1 - B	8132
PPC1 Caliper Standard	PPC_ -	
Auxiliary Equipment:		

Powered Positioning Device/Caliper 1 Wellsite Calibration

PPC1 Caliper Calibration

Phase	PPC1 Radius 1 Raw Small Radius IN	Value	Phase	PPC1 Radius 1 Raw Large Radius IN	Value
Before		4.670	Before		9.212
1.200 (Minimum)	3.500 (Nominal) 5.600 (Maximum)		6.100 (Minimum)	8.000 (Nominal) 9.700 (Maximum)	
Phase	**PPC1 Radius 2 Raw Small Radius IN**	**Value**	**Phase**	**PPC1 Radius 2 Raw Large Radius IN**	**Value**
Before		3.322	Before		7.874
1.200	3.500 5.600		6.100	8.000 9.700	

Phase	PPC1 Radius 3 Raw Small Radius IN	Value	Phase	PPC1 Radius 3 Raw Large Radius IN	Value
Before		4.481	Before		8.970
	1.200 (Minimum) 3.500 (Nominal) 5.600 (Maximum)			6.100 (Minimum) 8.000 (Nominal) 9.700 (Maximum)	
Phase	PPC1 Radius 4 Raw Small Radius IN	Value	Phase	PPC1 Radius 4 Raw Large Radius IN	Value
Before		3.374	Before		7.927
	1.200 (Minimum) 3.500 (Nominal) 5.600 (Maximum)			6.100 (Minimum) 8.000 (Nominal) 9.700 (Maximum)	

Before: 15-Jan-2011 12:34

Multimode Array Sonic Power Cartridge / Equipment Identification

Primary Equipment:

Multimode Array Sonic Minimum Service So	MAMS - BA	8177
Multimode Array Sonic Control Cartridge	MAPC - BA	8090

Auxiliary Equipment:

Electronics Cartridge Housing	ECH - SF	8090

Multimode Array Sonic Power Cartridge Master Calibration

SSCF Sensor Sensitivity Correction Factor

Phase	SSCF Minimum ---	Value	Phase	SSCF Maximum ---	Value
Master		0.9272	Master		1.074
	0.5000 (Minimum) 1.000 (Nominal) 1.700 (Maximum)			0.5000 (Minimum) 1.000 (Nominal) 1.700 (Maximum)	

Master: 27-Nov-2010 18:28

Multimode Array Sonic Power Cartridge Master Calibration

SSCR Sensor Sensitivity Correction Factor LF to HF Ratio

Phase	SSCR Minimum ---	Value	Phase	SSCR Maximum ---	Value
Master		0.9406	Master		1.097
	0.9000 (Minimum) 1.000 (Nominal) 1.700 (Maximum)			0.9000 (Minimum) 1.000 (Nominal) 1.700 (Maximum)	

Master: 27-Nov-2010 18:28

Multimode Array Sonic Power Cartridge Master Calibration

STDF Sensor Time Delay Factor

Phase	STDF Minimum US	Value	Phase	STDF Maximum US	Value
Master		-0.8820	Master		1.133
	-2.000 (Minimum) 0 (Nominal) 2.000 (Maximum)			-2.000 (Minimum) 0 (Nominal) 2.000 (Maximum)	

Master: 27-Nov-2010 18:28

Powered Positioning Device/Caliper 2 / Equipment Identification

Primary Equipment:

PPC Powered Positioning Device/Caliper	PPC2 - B	8277
PPC2 Caliper Standard	PPC_ -	

Auxiliary Equipment:

Powered Positioning Device/Caliper 2 Wellsite Calibration

PPC2 Caliper Calibration

Phase	PPC2 Radius 1 Raw Small Radius IN	Value	Phase	PPC2 Radius 1 Raw Large Radius IN	Value
Before		4.000	Before		8.319
	1.200 (Minimum) 3.500 (Nominal) 5.600 (Maximum)			6.100 (Minimum) 8.000 (Nominal) 9.700 (Maximum)	
Phase	PPC2 Radius 2 Raw Small Radius IN	Value	Phase	PPC2 Radius 2 Raw Large Radius IN	Value
Before		3.510	Before		8.095
	1.200 (Minimum) 3.500 (Nominal) 5.600 (Maximum)			6.100 (Minimum) 8.000 (Nominal) 9.700 (Maximum)	

Phase	PPC2 Radius 3 Raw Small Radius IN	Value	Phase	PPC2 Radius 3 Raw Large Radius IN	Value
Before		4.250	Before		8.674
	1.200 (Minimum) 3.500 (Nominal) 5.600 (Maximum)			6.100 (Minimum) 8.000 (Nominal) 9.700 (Maximum)	
Phase	PPC2 Radius 4 Raw Small Radius IN	Value	Phase	PPC2 Radius 4 Raw Large Radius IN	Value
Before		3.674	Before		8.070
	1.200 (Minimum) 3.500 (Nominal) 5.600 (Maximum)			6.100 (Minimum) 8.000 (Nominal) 9.700 (Maximum)	

Before: 15-Jan-2011 12:36

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector	EDTG - A/B	
Enhanced DTS Cartridge	EDTC - B	8537

Auxiliary Equipment:

EDTC Housing	EDTH - B

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration F/S2	Value
Before		32.07
	31.53 (Minimum) 32.19 (Nominal) 32.84 (Maximum)	

Before: 22-Jan-2011 3:55

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		52.32	Before		152.5	Before		165.0
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			138.6 (Minimum) 152.5 (Nominal) 166.3 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)	

Before: 15-Jan-2011 12:47

Company: OXY US LA BASIN

Schlumberger

Well: DOM-001
Field: Dominguez
County: Los Angeles
State: California

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