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

SONIC SCANNER
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		5:45						
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
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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	
THREE OMEZ RAN FOR CENTRALIZATION	

THREE CMEZ RAN FOR CENTRALIZATION
TWO PPC RAN FOR CENTRALIZATION
MSIP LOGGED IN STANDARD MODE FOR INTERMEDIATE FORMATION
MATRIX: SANDSTONE DENSITY: 2.65 G/CC
TOTAL CHLORIDES = 41 000 PPM
MAX TEMP = 301 DEGF AT 12894 FT FROM HSTS

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

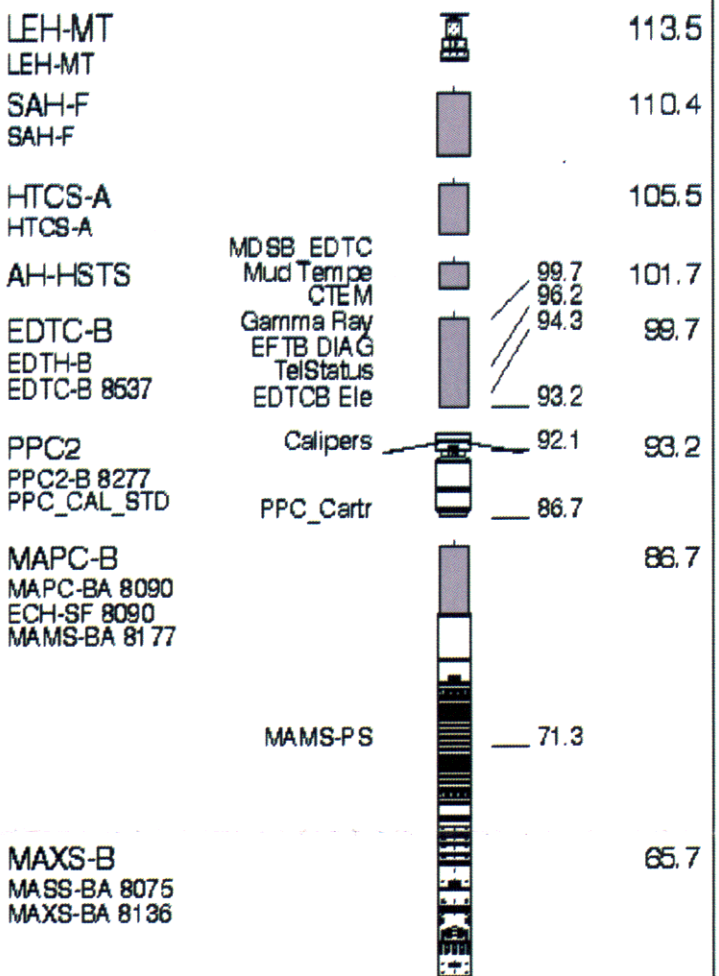
EQUIPMENT DESCRIPTION

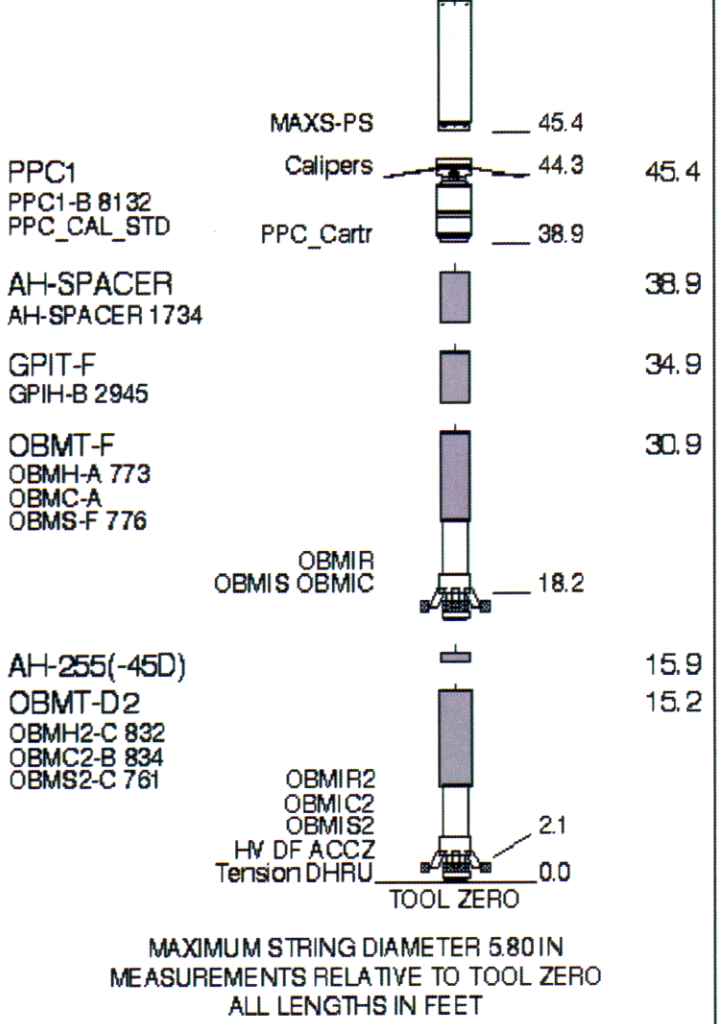
RUN 1 | RUN 2

SURFACE EQUIPMENT

WITM (EDTS)-A

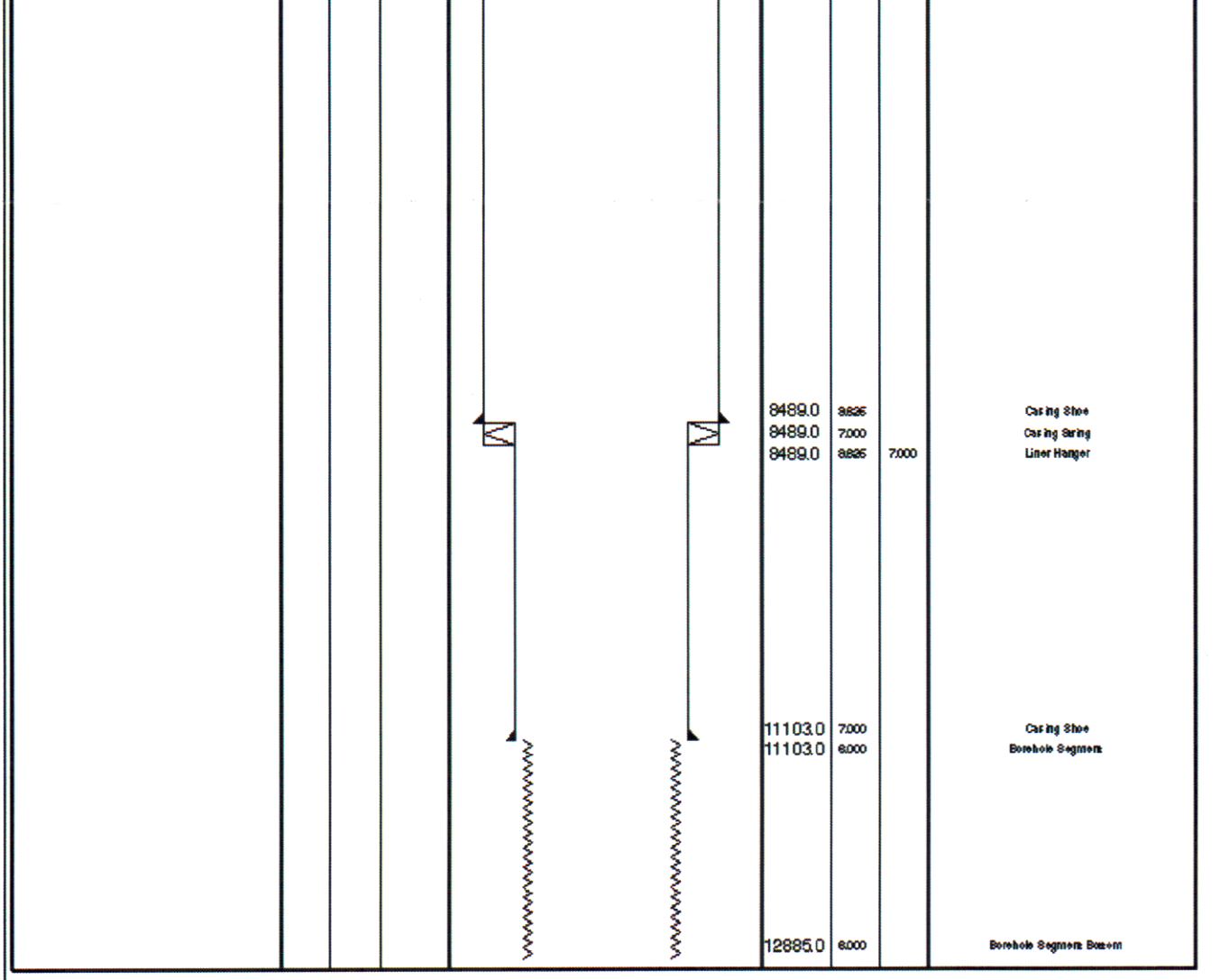
DOWNHOLE EQUIPMENT





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	9.625		Casing String



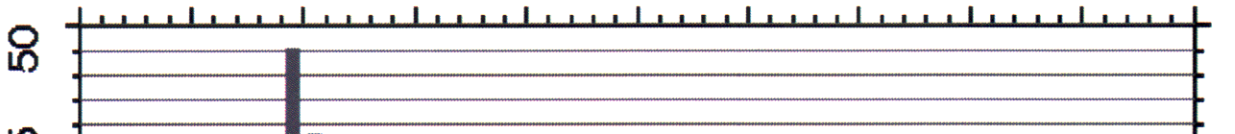
ALL DEPTHS ARE
DRILLERS DEPTHS

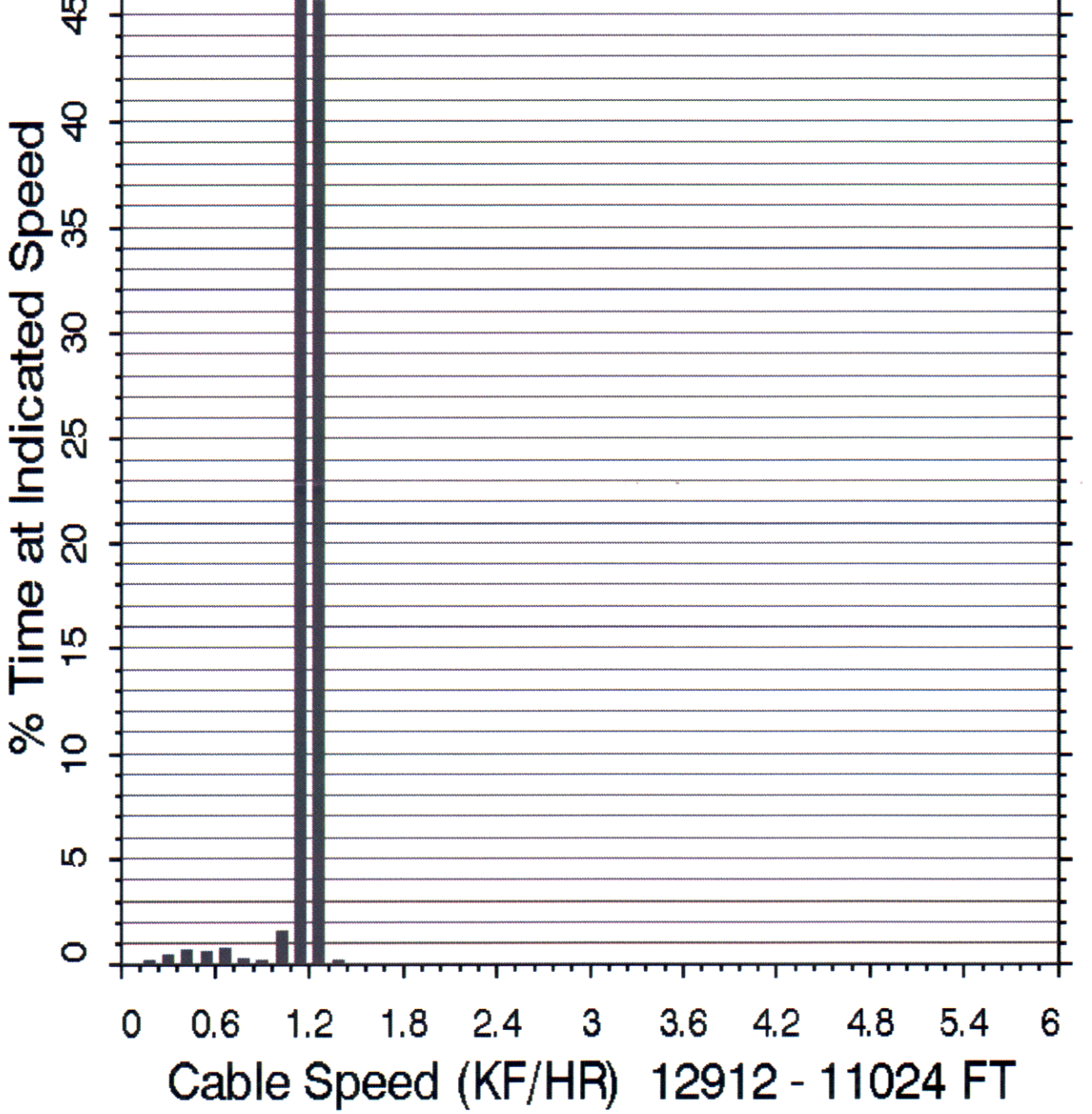
Schlumberger

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

Begin Descent	21-Jan-2011 20:40				
Log Pass (down)	21-Jan-2011 20:43	001:42	97.5 - 12809.5	AIT_TLD_MCFL_GNL_016LDP	
Log Pass (up)	21-Jan-2011 22:43	000:18	12900.0 - 12546.2	AIT_TLD_MCFL_GNL_020LUP	
Log Pass (up)	21-Jan-2011 23:09	000:16	12847.5 - 12398.5	AIT_TLD_MCFL_GNL_022LUP	
Log Pass (up)	21-Jan-2011 23:37	000:60	12562.5 - 10795.5	TLD_MCFL_GNL_ECS_023LUP	
Log Pass (up)	22-Jan-2011 0:43	000:10	11542.5 - 11267.0	TLD_MCFL_GNL_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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MAIN PASS SONIC
5" = 100'

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

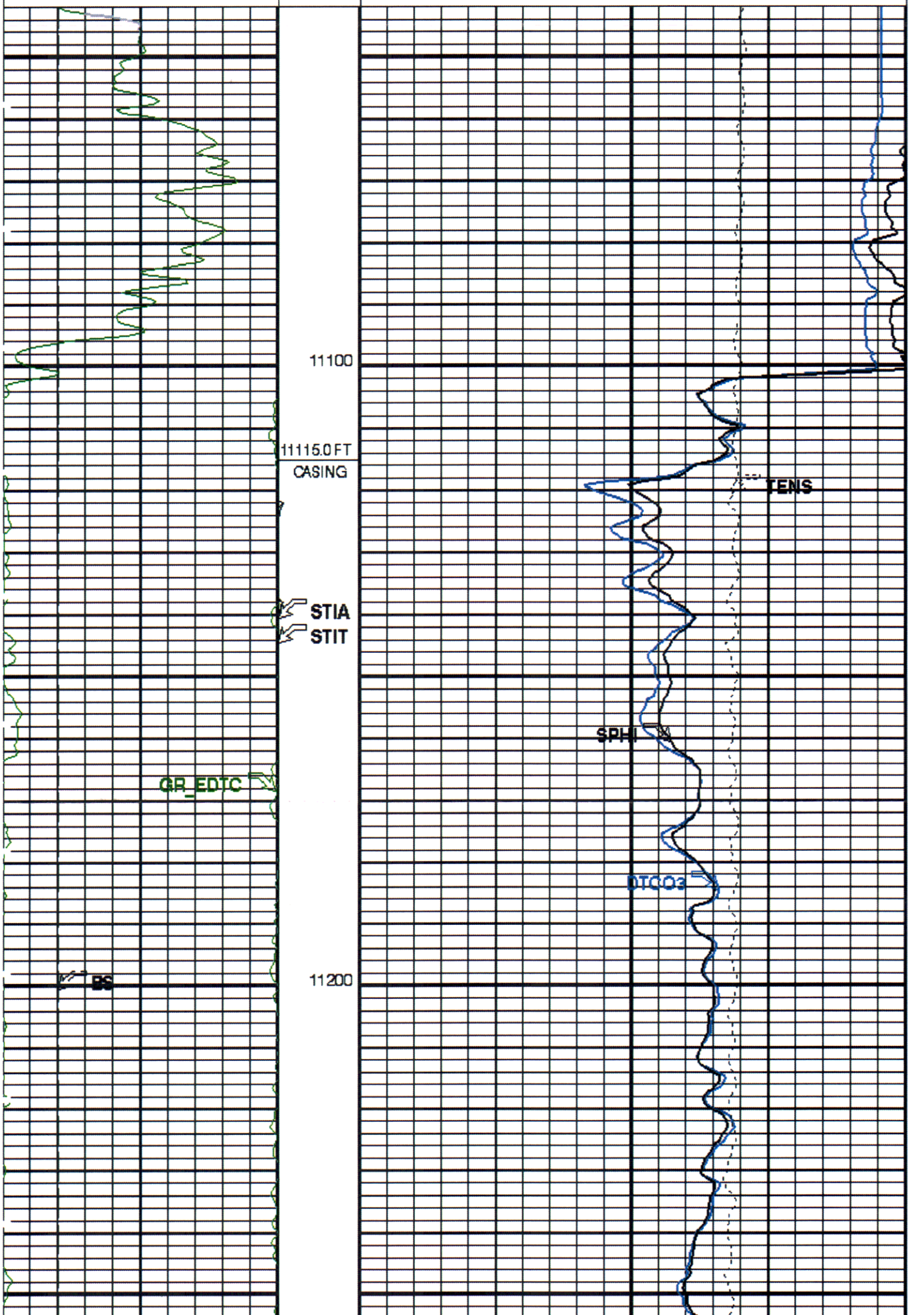
OP System Version: 19C0-187

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

	Tool/Tot. Drag From D3T to STIA	Tension (TENS) 10000 (LBF) 0
Gamma Ray (GR_EDTC) 20 (GAPI) 170	Cable Drag From STIA to STIT	Sonic Porosity (SPHI) 0.6 (V/V) 0
Bit Size (BS) 4 (IN) 14	Stuck Stretch (STIT) 0 (F) 50	Delta-T (DTCO3) 150 (US/F) 50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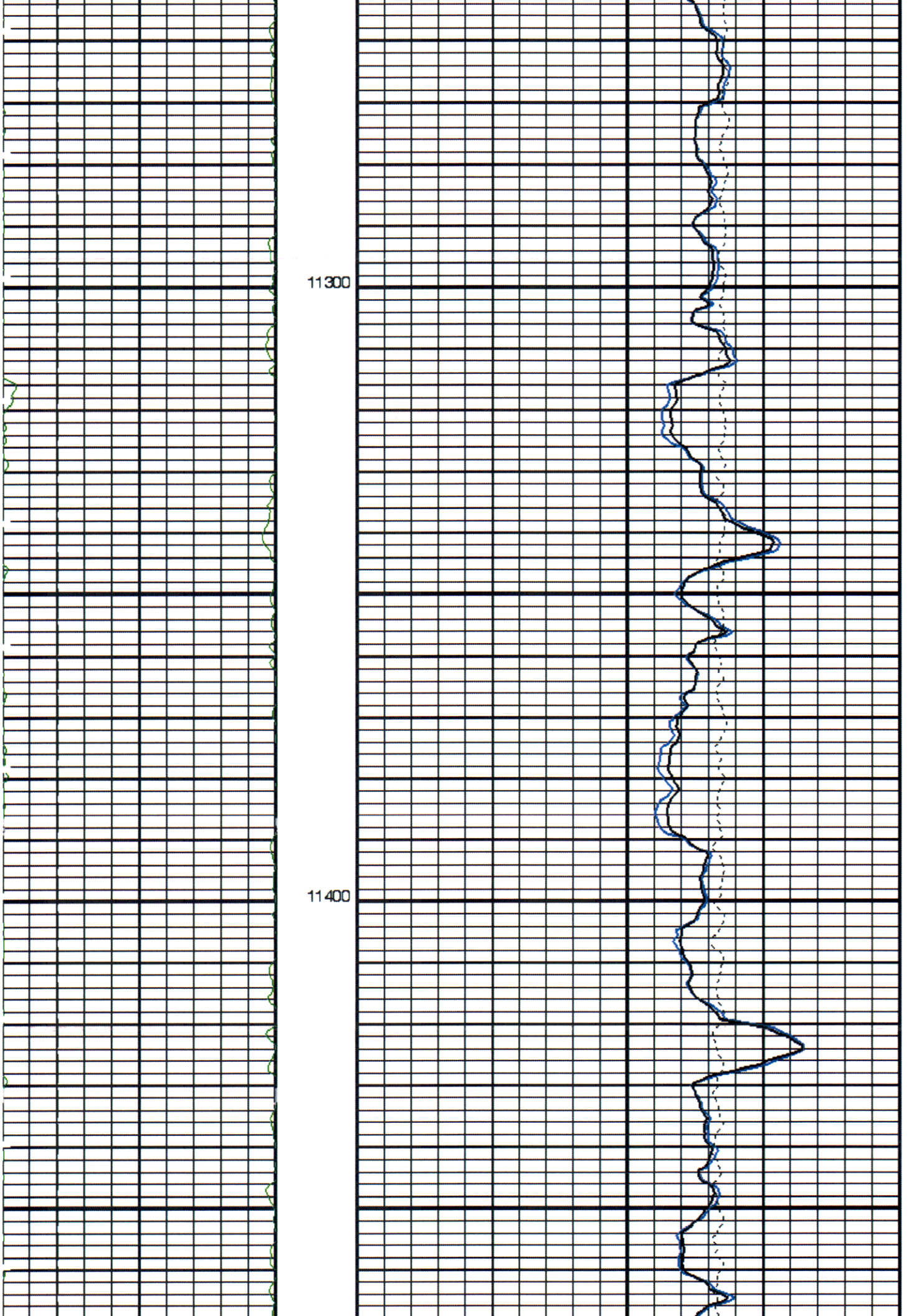
11115.0 FT
CASING
TENS
STIA
STIT
SPHI
GR_EDTC
DTCO3
BS
11200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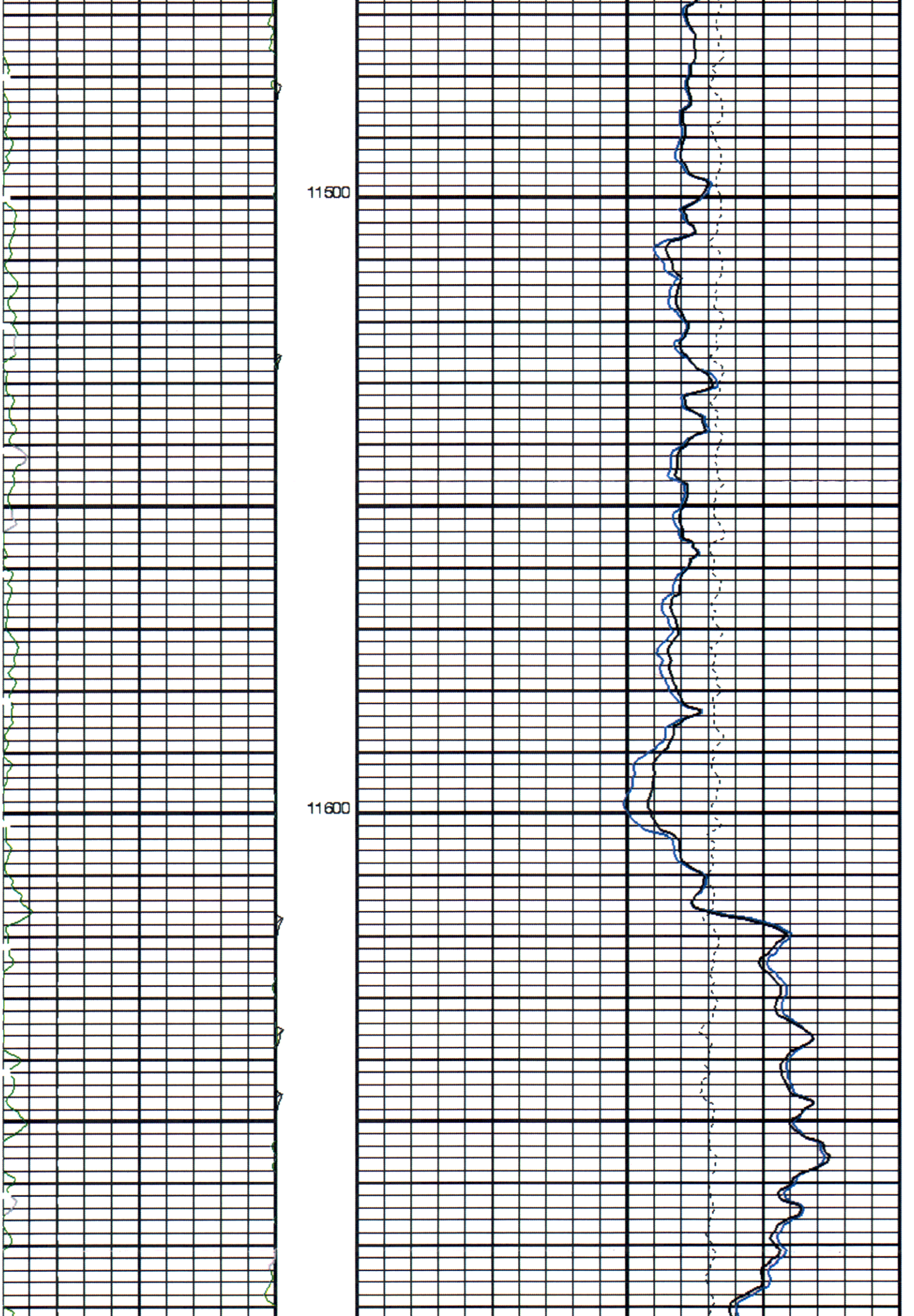
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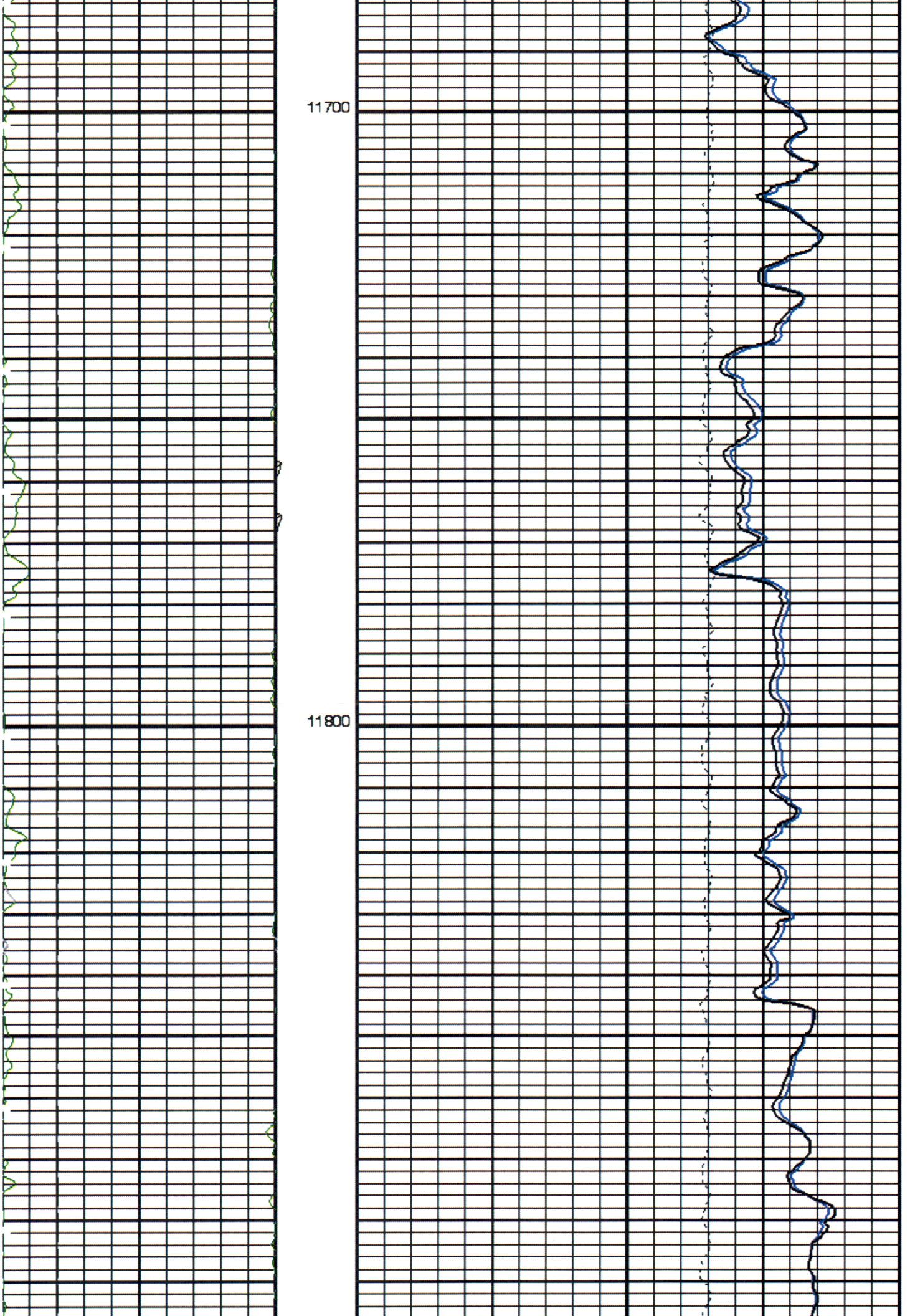
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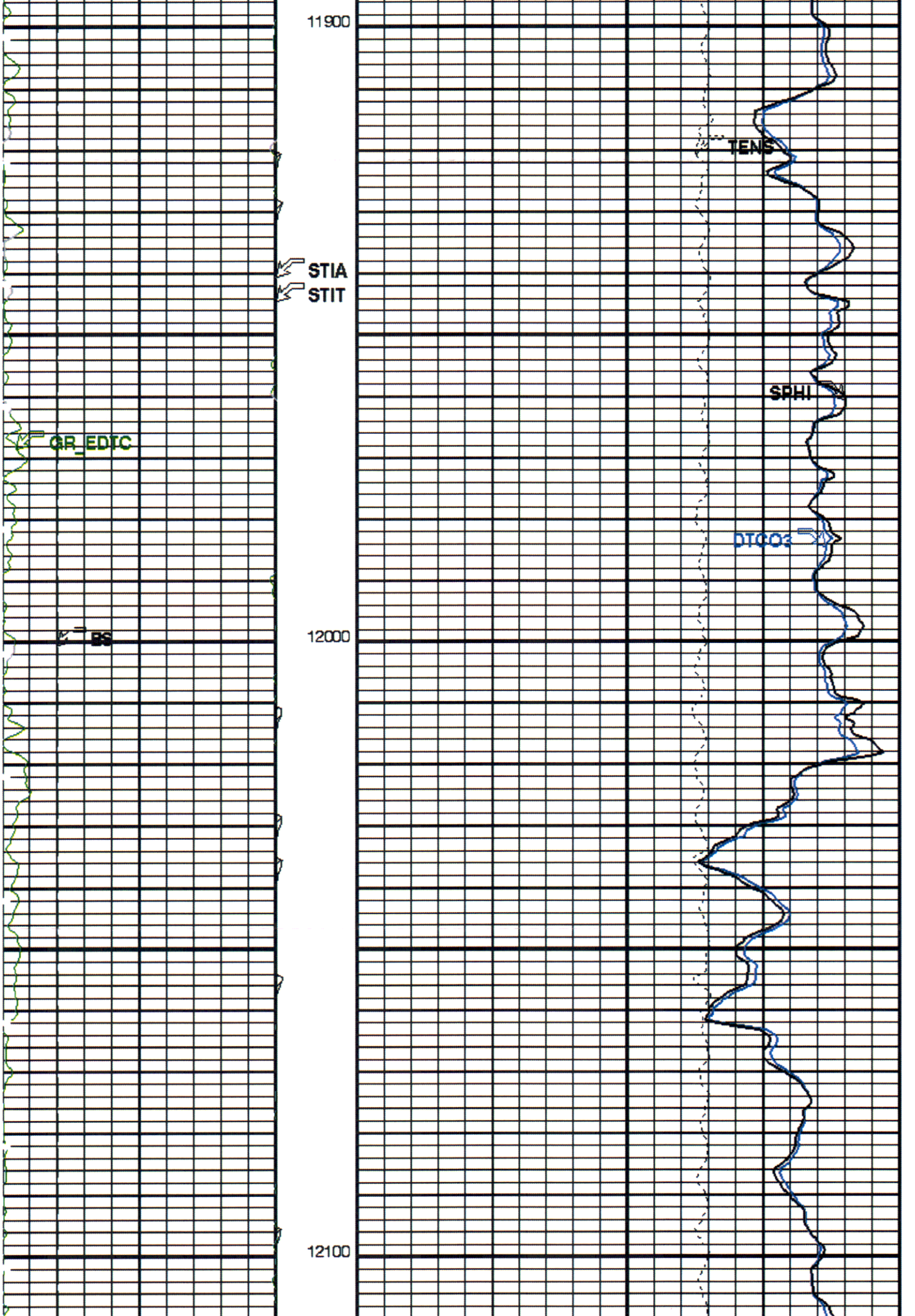
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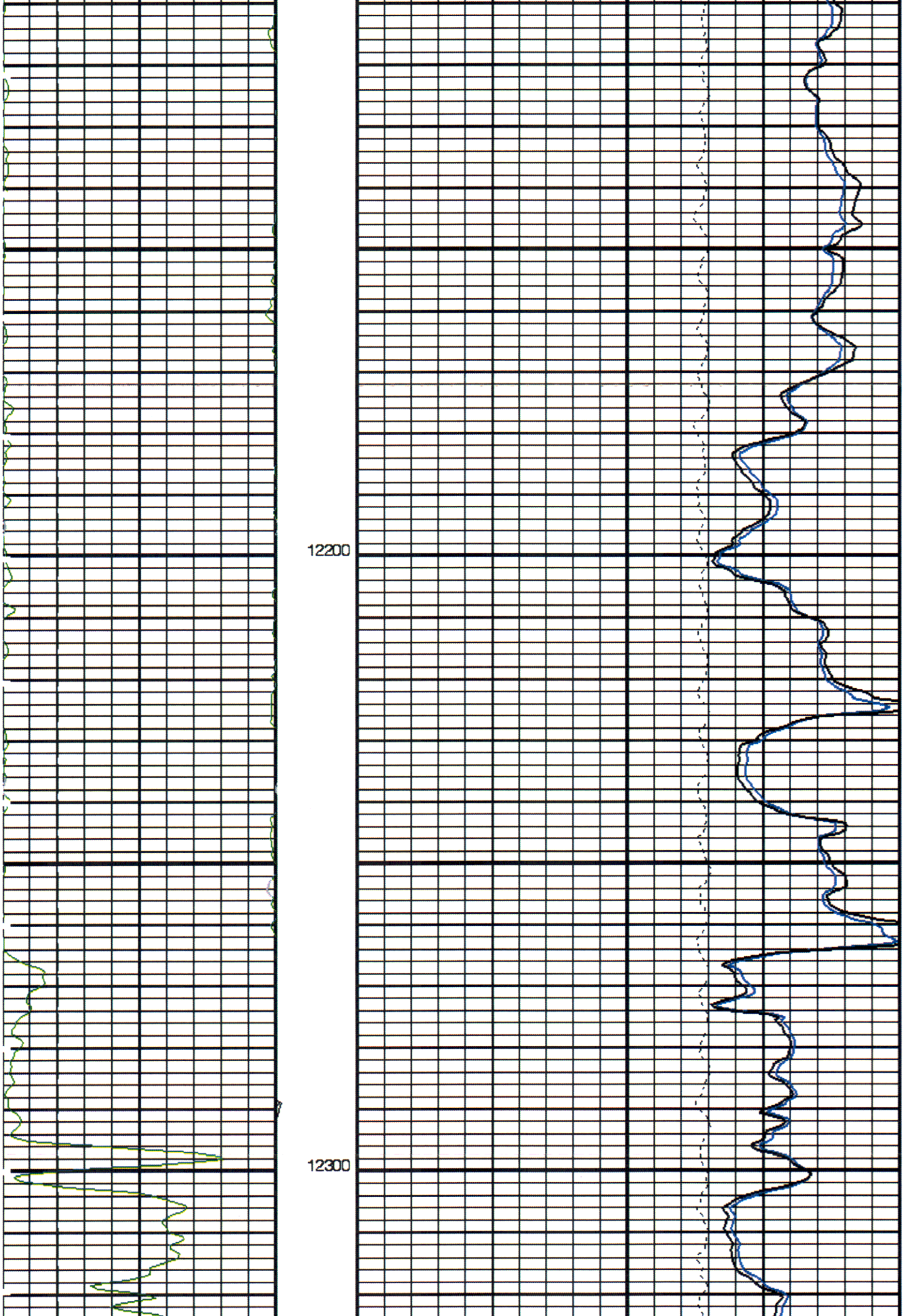
TENS
STIA
STIT
SPHI
GR_EDTC
DTCO3
BS
12000
12100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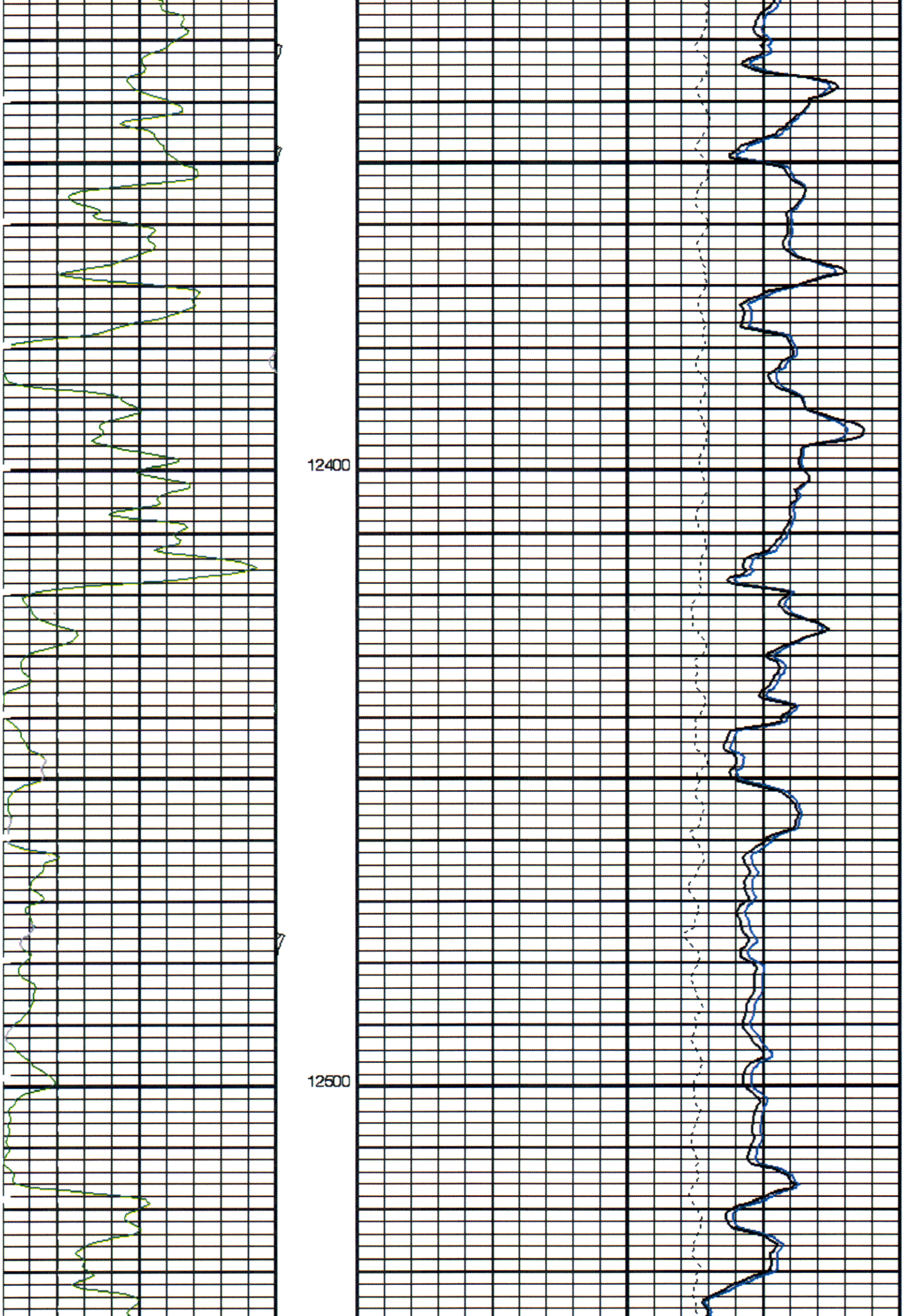
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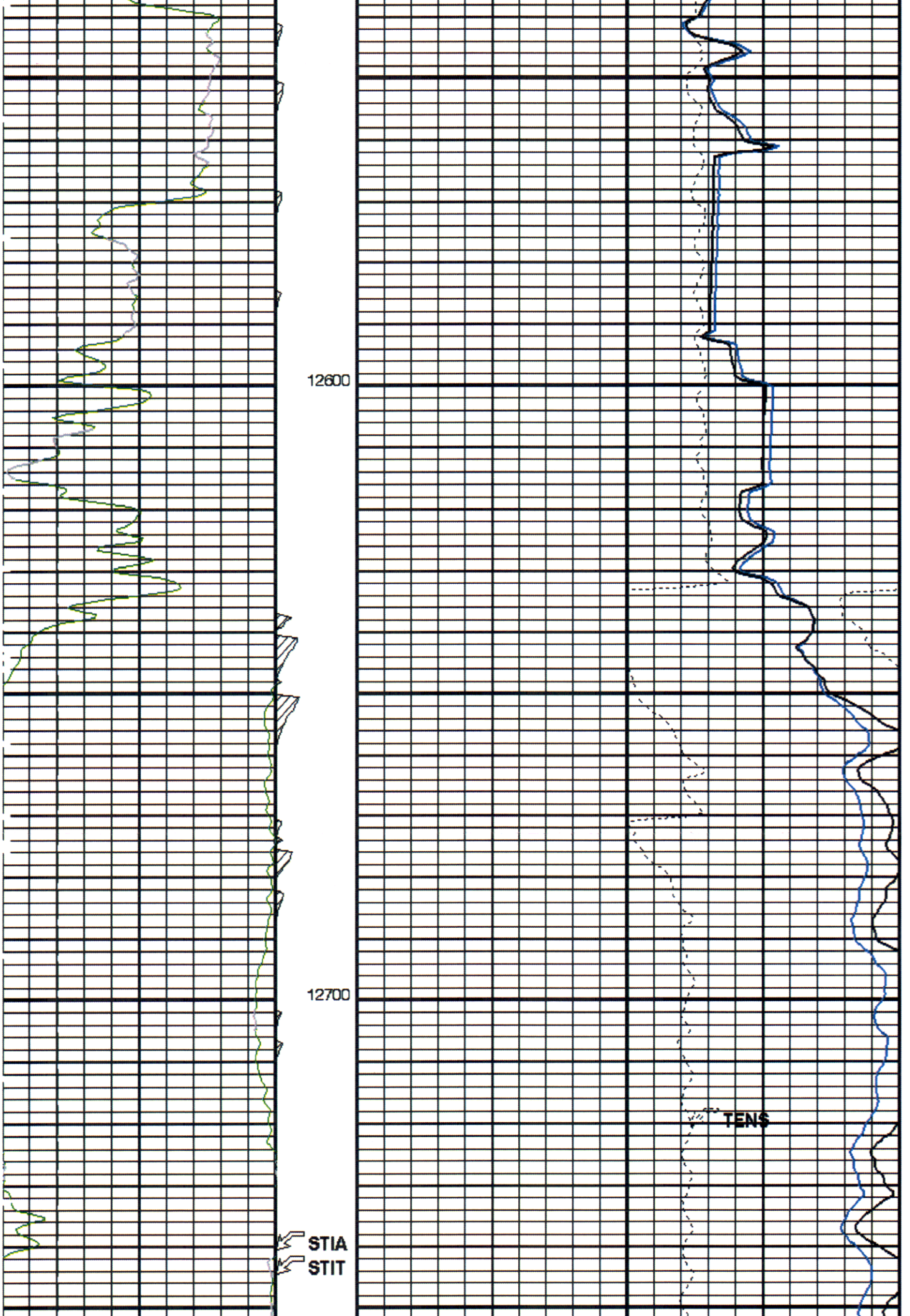
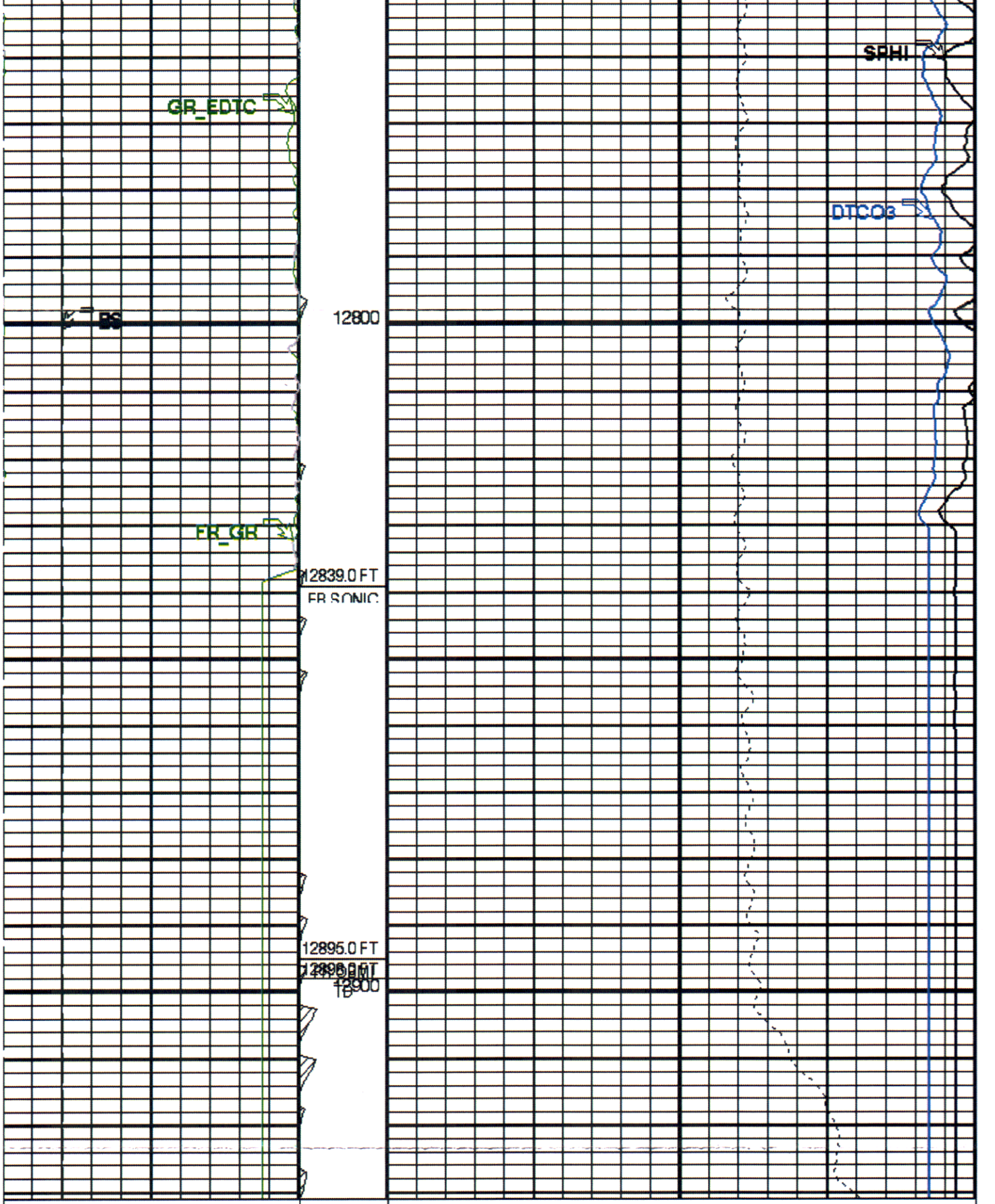

12600
12700
TENS
STIA
STIT



Bit Size (BS)	Stuck Stretch (STIT)	Delta-T (DTCO3)
4 (IN) 14	0 (F) 50	150 (US/F) 50
Gamma Ray (GR_EDTC)	**Cable Drag From STIA to STIT**	**Sonic Porosity (SPHI)**
20 (GAPI) 170		0.6 (V/V) 0

Tool/Tot. Drag From D3T to STIA		Tension (TENS) 10000 (LBF) 0

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MAPC-B: Multimode Array Sonic Power Cartridge		
BHS	Borehole Status	OPEN	
BS	Bit Size	6.000	IN
CDTS	C-Delta-T Shale	100	US/F
DCRMVL	DC Offset Removal Option	DC_MULTIPLE	
DLHS	Hole Diameter Source for SOBS Channel	AUTO	
DTF	Delta-T Fluid	221.6	US/F
DTM	Delta-T Matrix	56	US/F
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
	EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	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
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
	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		
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	32.00	LB/F
DO	Depth Offset for Playback	19.0	FT
PP	Playback Processing	OFF	

Format: SONI 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

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

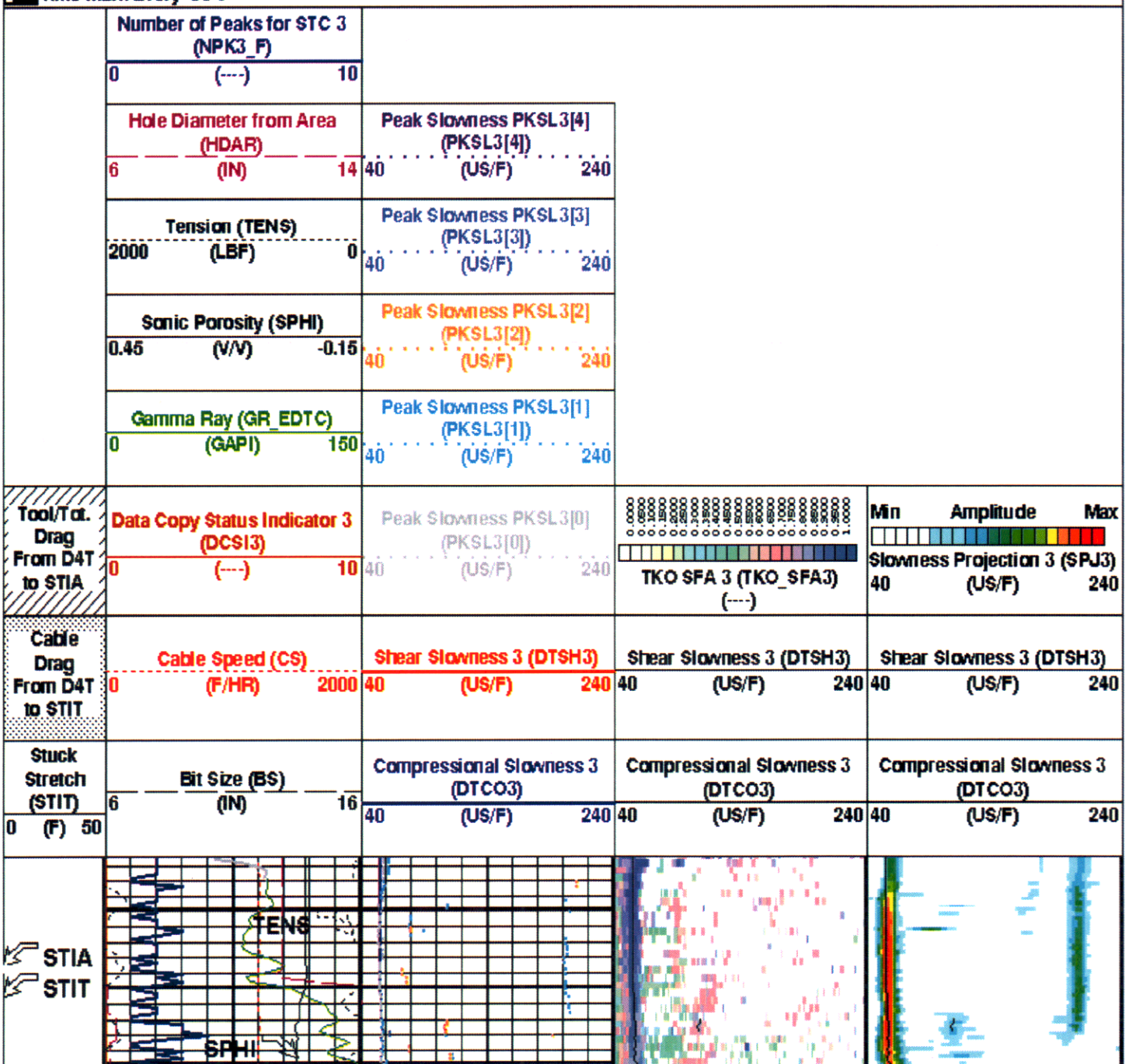
DEFAULT	OBMI_IS_CAL_MAXS_049PUP	FN:87	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
CLIENT	OBMI_IS_CAL_MAXS_049PUC	FN:88	CUSTOMER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT
RTB	OBMI_IS_CAL_MAXS_049PUP	FN:89	PRODUCER	22-Jan-2011 08:11	12931.0 FT	11042.0 FT

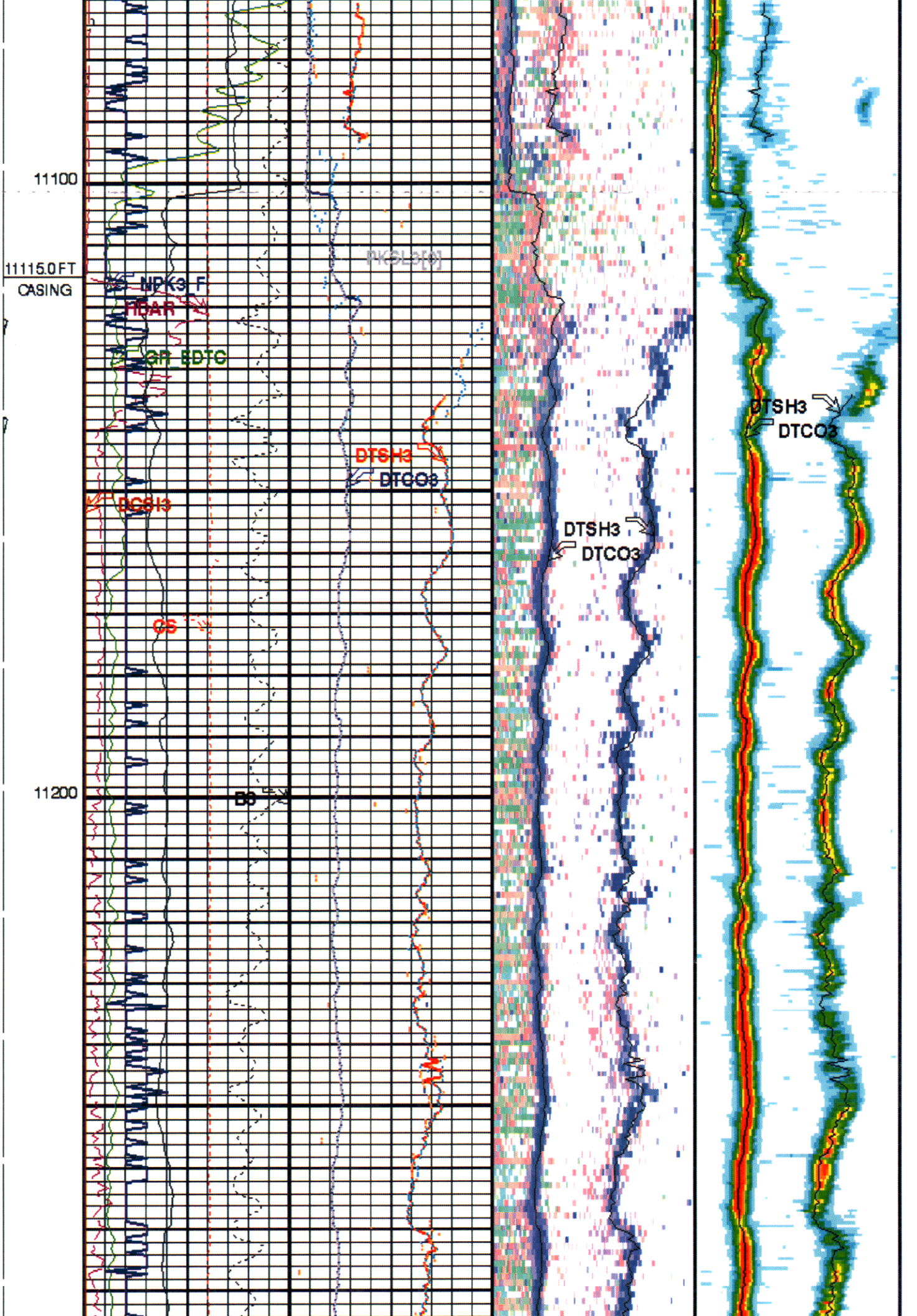
OP System Version: 19C0-187

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

PIP SUMMARY

Time Mark Every 60 S

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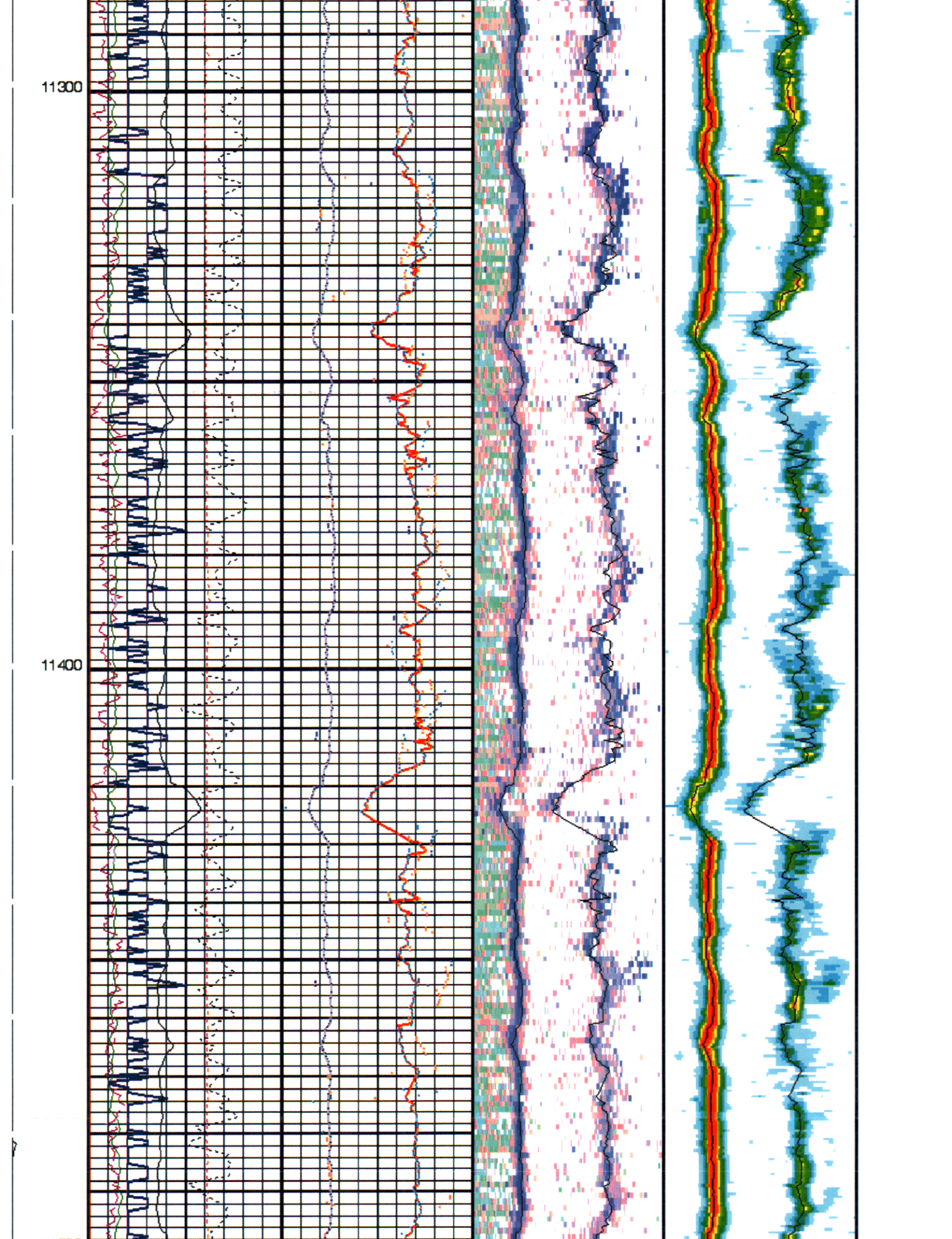
CASING
NPK3_F
RDAR
GR_EDTC
DTSH3
DTCO3
DCSH3
CS
11200
BO
DTSH3
DTCO3
DTSH3
DTCO3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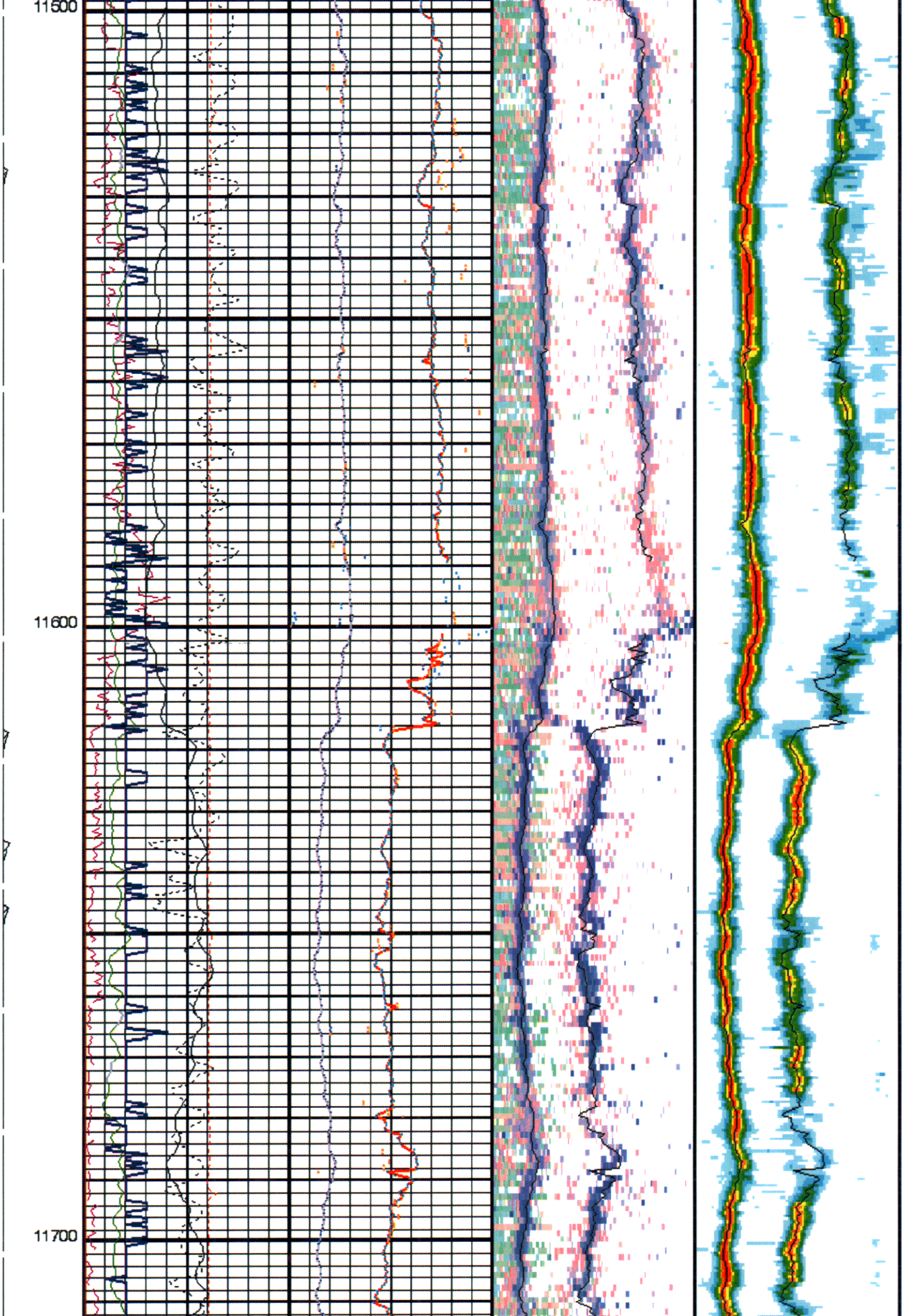
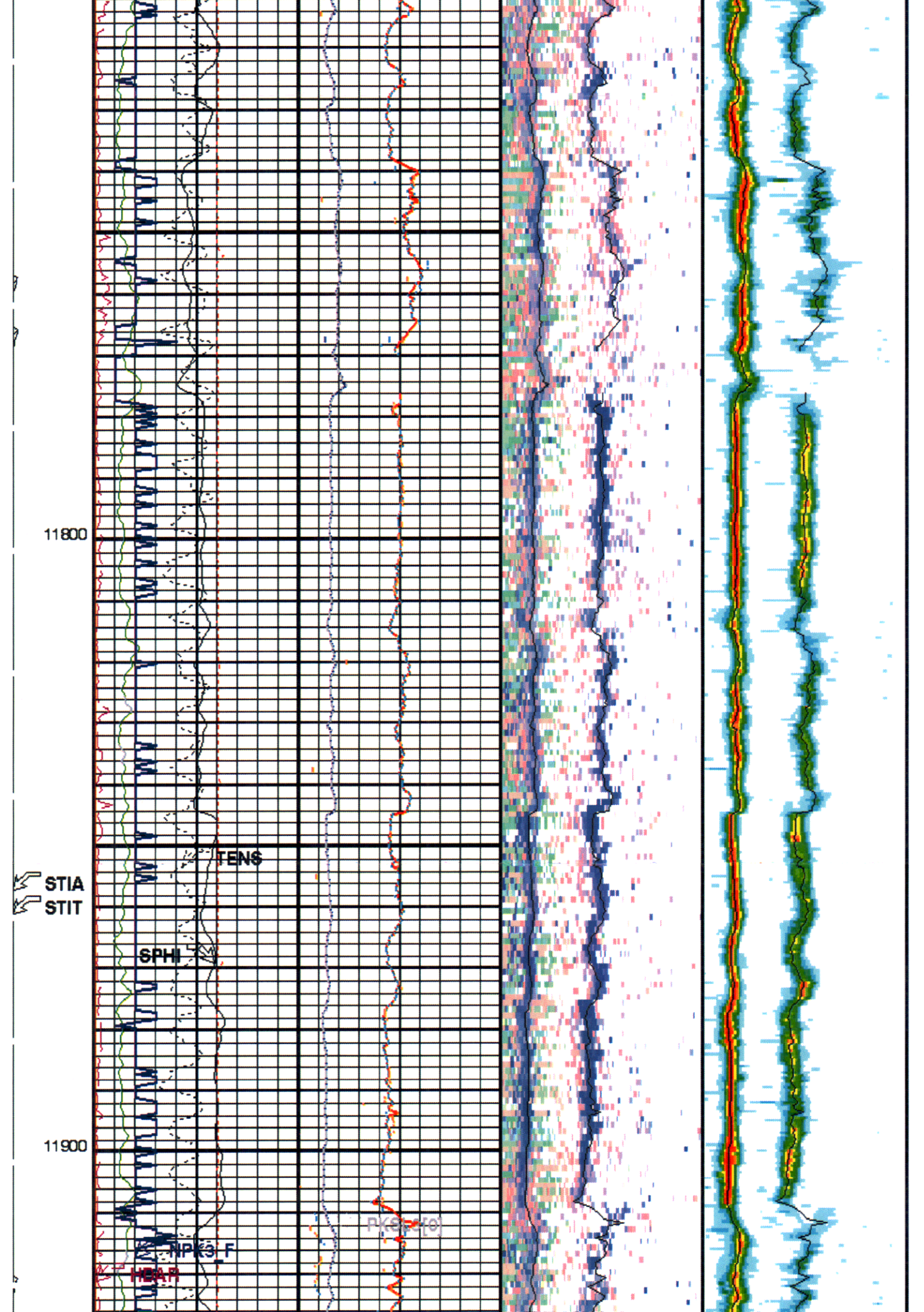


RECD OCT 14 2011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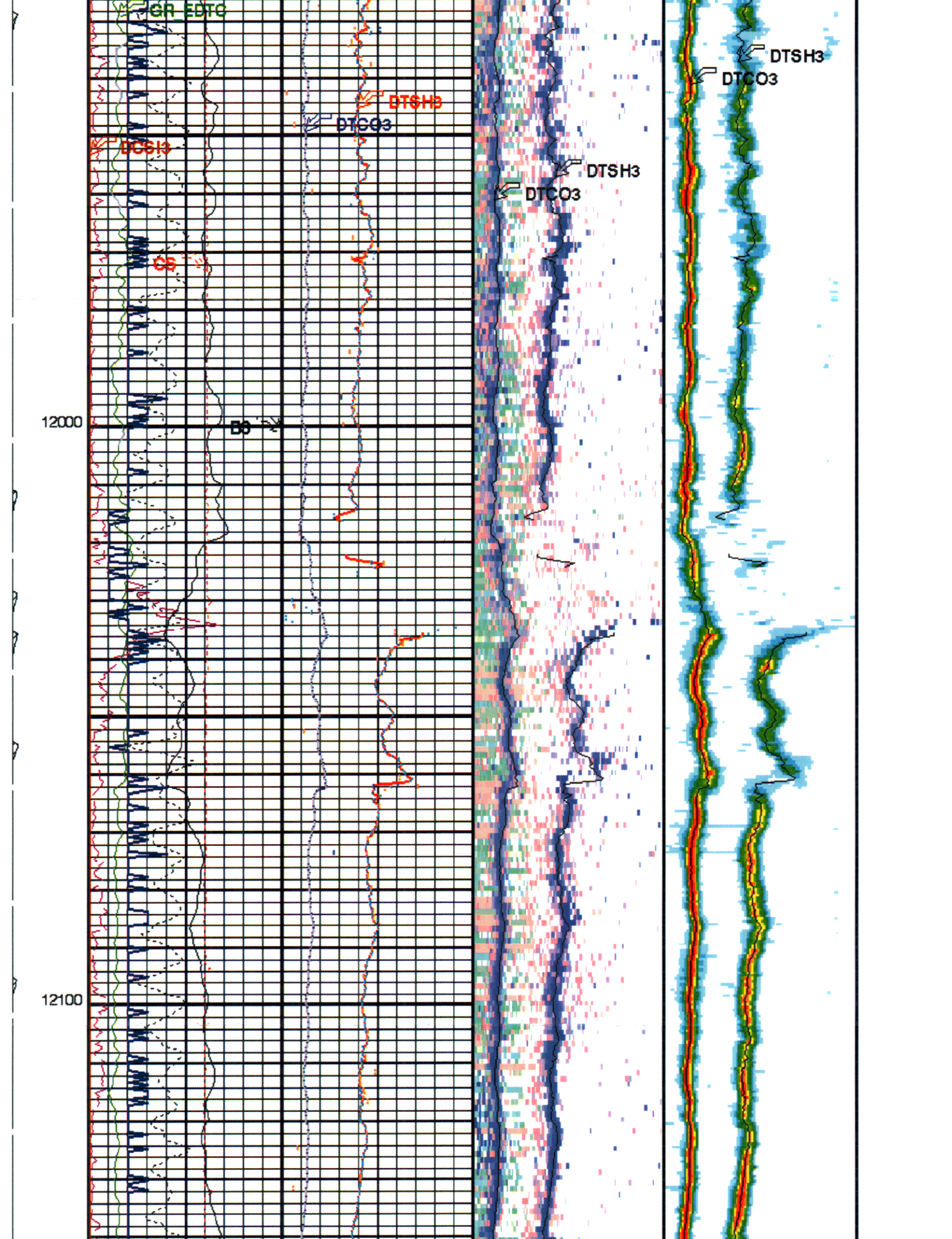
TENS
STIA
STIT
SPHI
11900
NPHI3_F
HCAL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DTCO3
DCSI3
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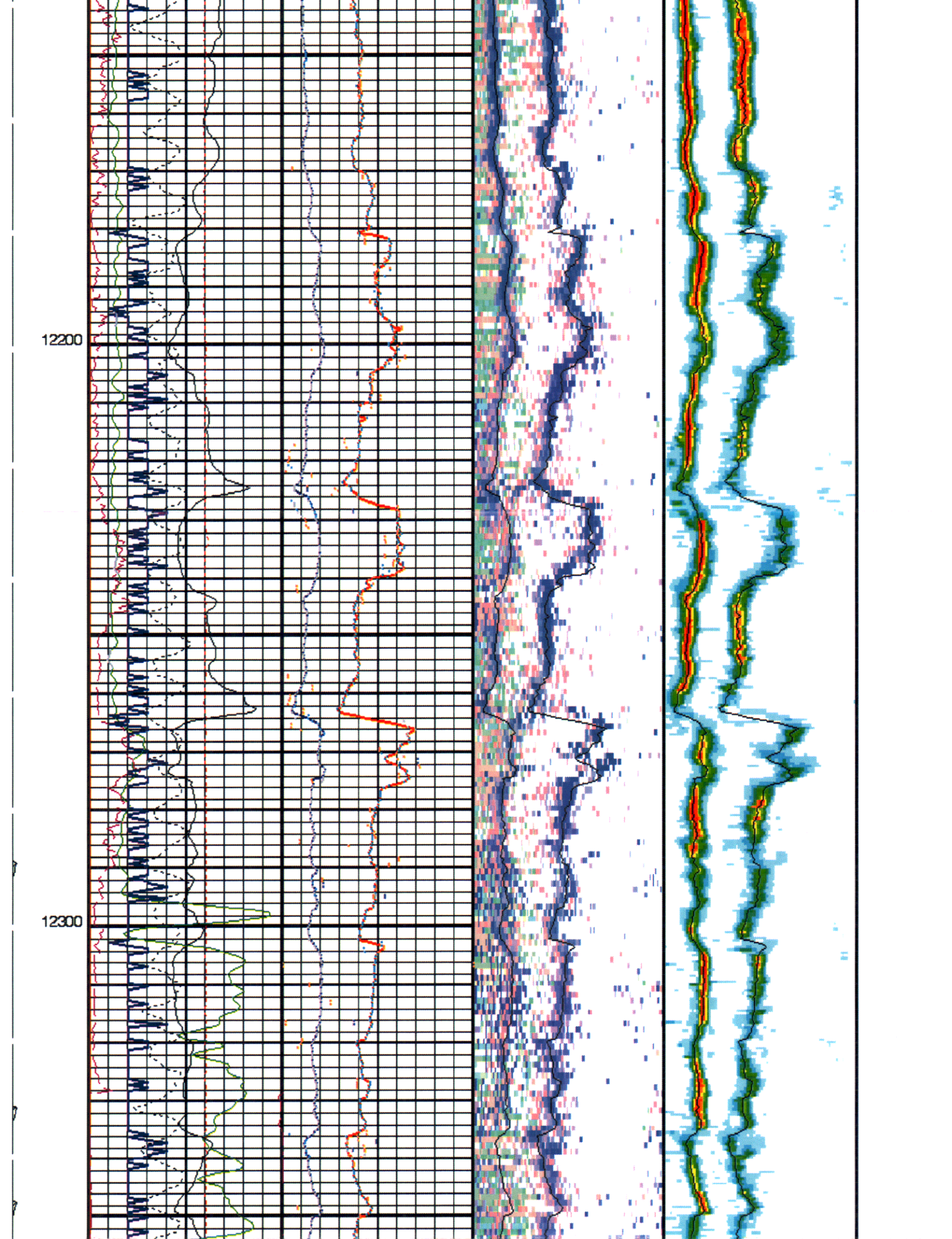
DTCO3
DTSH3
DTCO3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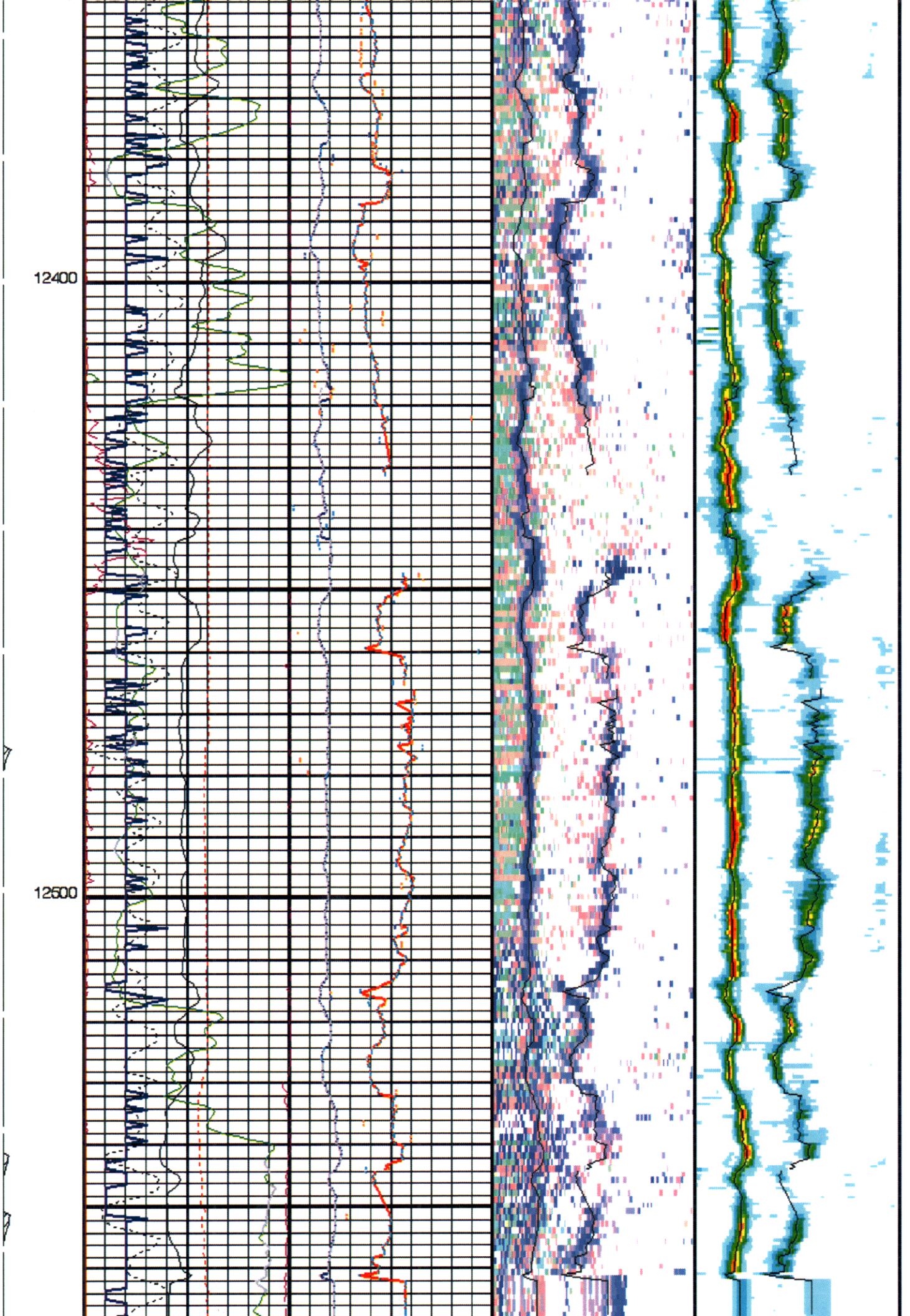
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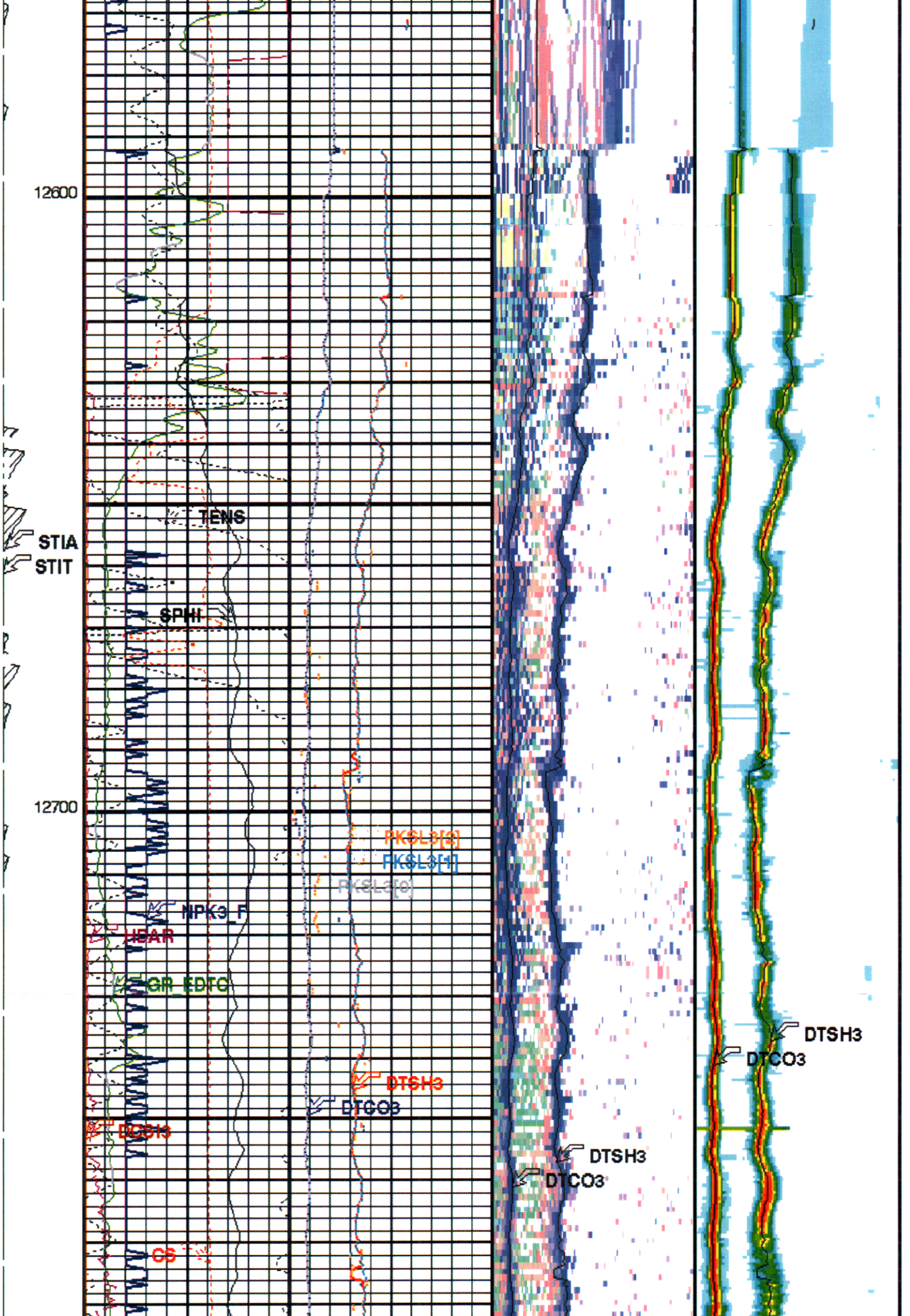
12600
TENS
STIA
STIT
SPHI
12700
PKSL3[2]
PKSL3[1]
PKSL3[0]
NPK3_F
HEAR
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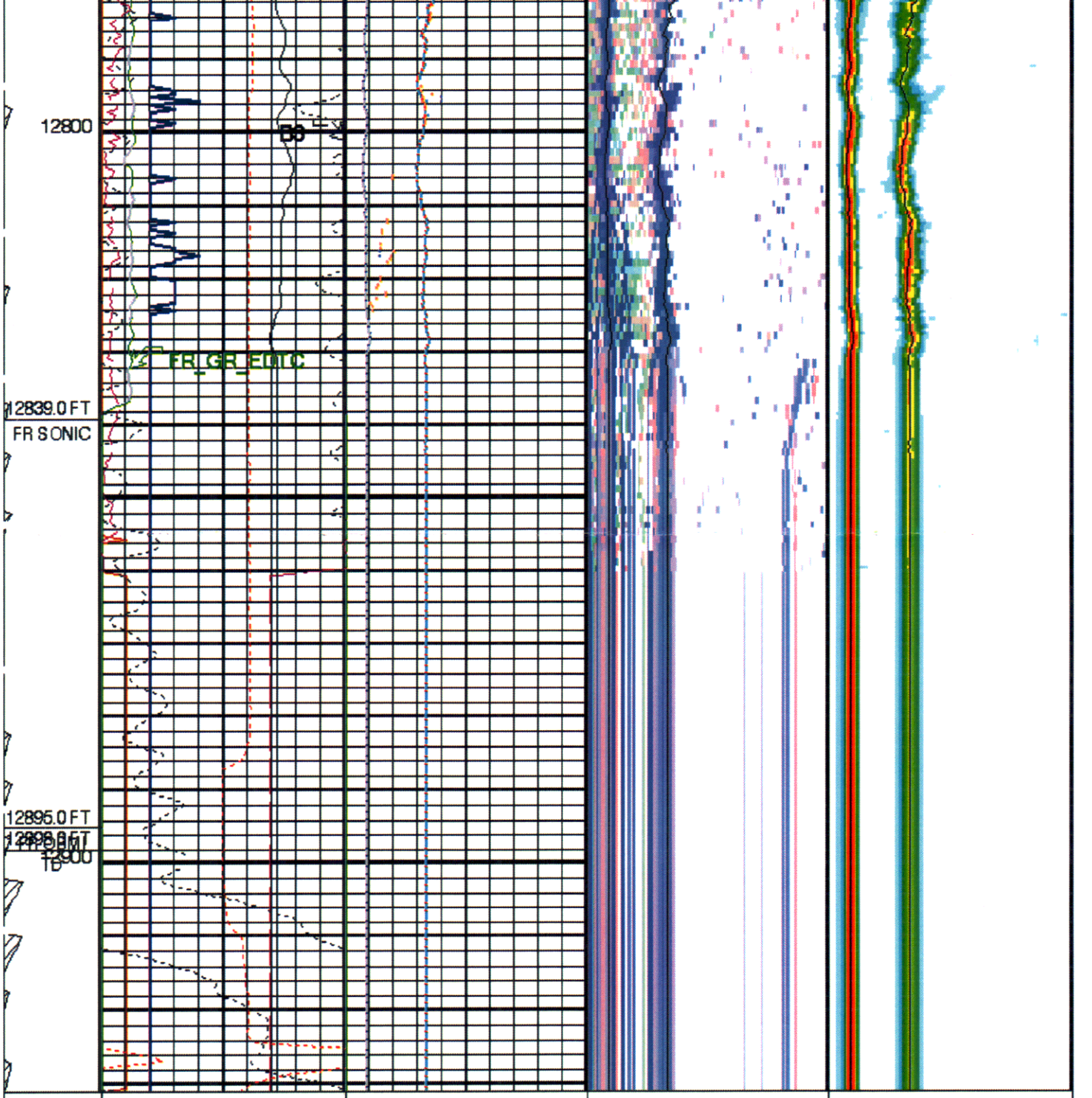
DTCO3
CS
DTSH3
DTCO3



Stuck Stretch (STIT) 0 (F) 50	Bit Size (BS) 6 (IN) 16	Compressional Slowness 3 (DTCO3) 40 (US/F) 240	Compressional Slowness 3 (DTCO3) 40 (US/F) 240	Compressional Slowness 3 (DTCO3) 40 (US/F) 240
Cable Drag From D4T to STIT	Cable Speed (CS) 0 (F/HR) 2000	Shear Slowness 3 (DTSH3) 40 (US/F) 240	Shear Slowness 3 (DTSH3) 40 (US/F) 240	Shear Slowness 3 (DTSH3) 40 (US/F) 240
Tool/Tot. Drag From D4T to STIA	Data Copy Status Indicator 3 (DCSI3) 0 (----) 10	Peak Slowness PKSL3[0] (PKSL3[0]) 40 (US/F) 240	TKO SFA 3 (TKO_SFA3) (----)	Min Amplitude Max Slowness Projection 3 (SPJ3) 40 (US/F) 240
	Gamma Ray (GR_EDTC) 0 (GAPI) 150	Peak Slowness PKSL3[1] (PKSL3[1]) 40 (US/F) 240		
	Sonic Porosity (SPHI)	Peak Slowness PKSL3[2]		

0.45 (V/V) -0.15	(PKSL3[2]) 40 (US/F) 240
Tension (TENS) 2000 (LBF) 0	Peak Slowness PKSL3[3] (PKSL3[3]) 40 (US/F) 240
Hole Diameter from Area (HDAR) 6 (IN) 14	Peak Slowness PKSL3[4] (PKSL3[4]) 40 (US/F) 240
Number of Peaks for STC 3 (NPK3_F) 0 (----) 10	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MAPC-B: Multimode Array Sonic Power Cartridge		
BHS	Borehole Status	OPEN	
BS	Bit Size	6.000	IN
CDTS	C-Delta-T Shale	100	US/F
DCRMVL	DC Offset Removal Option	DC_MULTIPLE	
DLHS	Hole Diameter Source for SOBS Channel	AUTO	
DTF	Delta-T Fluid	221.6	US/F
DTM	Delta-T Matrix	56	US/F
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
U_SLL3_MAST	MAST DSTC Slowness Lower Limit 3	40	US/F
U_SUL3_MAST	MAST DSTC Slowness Upper Limit 3	280	US/F
	EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	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
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
FCD	Future Casing (Outer) Diameter	4.5	IN
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
	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		
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	32.00	LB/F
DO	Depth Offset for Playback	19.0	FT
PP	Playback Processing	OFF	
TD	Total Depth	12898	FT

Format: MAST_TKO_SFA_LQC_MF 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	

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	11042.2 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

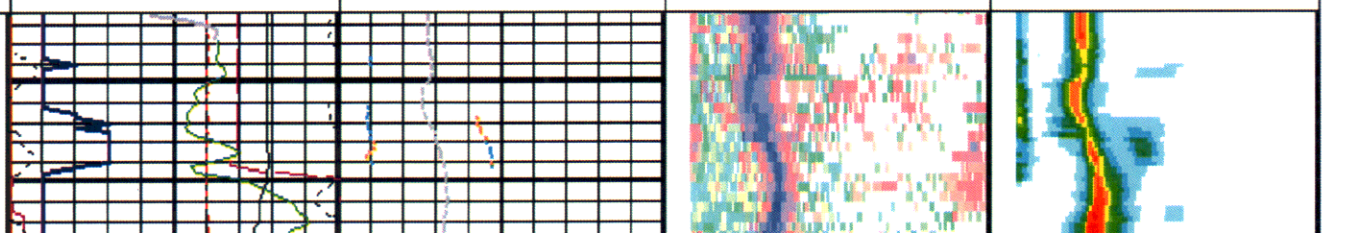
Time Mark Every 60 S

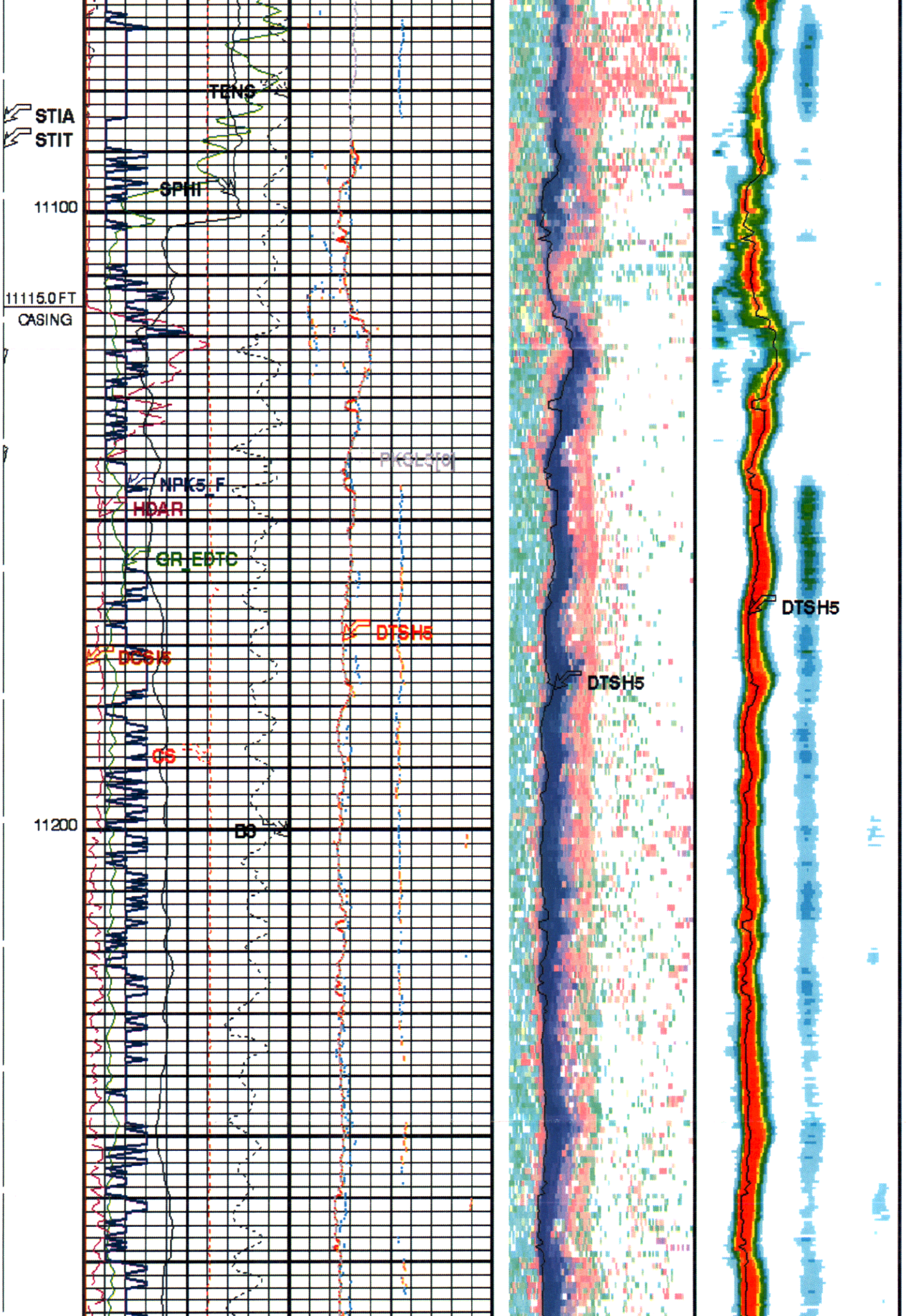
	Number of Peaks for STC 5 (NPK5_F) 0 (----) 10		
	Hole Diameter from Area (HDAR) 6 (IN) 14		
	Tension (TENS) 2000 (LBF) 0	Peak Slowness PKSL5[4] (PKSL5[4]) 40 (US/F) 540	
	Sonic Porosity (SPHI) 0.45 (V/V) -0.15	Peak Slowness PKSL5[3] (PKSL5[3]) 40 (US/F) 540	
	Gamma Ray (GR_EDTC) 0 (GAPI) 150	Peak Slowness PKSL5[2] (PKSL5[2]) 40 (US/F) 540	
Tool/Tot. Drag From D4T to STIA	Data Copy Status Indicator 5 (DCSI5) 0 (----) 10	Peak Slowness PKSL5[1] (PKSL5[1]) 40 (US/F) 540	
Cable Drag From D4T to STIT	Cable Speed (CS) 0 (F/HR) 2000	Peak Slowness PKSL5[0] (PKSL5[0]) 40 (US/F) 540	TKO SFA 5 (TKO_SFA5) (----)
Stuck Stretch (STIT) 0 (F) 50	Bit Size (BS) 6 (IN) 16	Shear Slowness 5 (DTSH5) 40 (US/F) 540	Shear Slowness 5 (DTSH5) 40 (US/F) 540

Min Amplitude Max

Slowness Projection 5 (SPJ5) 40 (US/F) 540

Shear Slowness 5 (DTSH5) 40 (US/F) 540

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SPHI
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HDAR
GR_EDTC
DTSH5
DCSI5
CS
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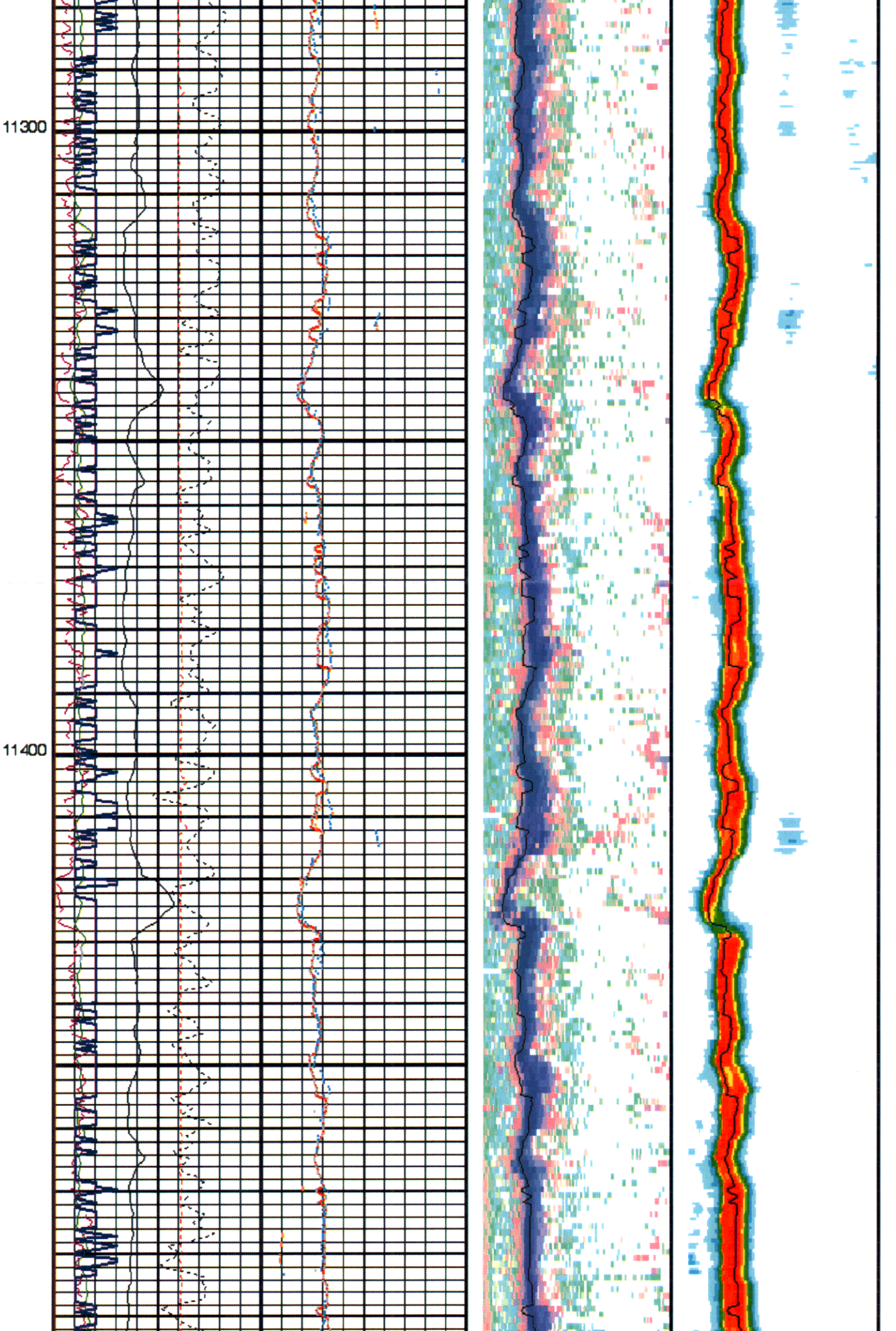
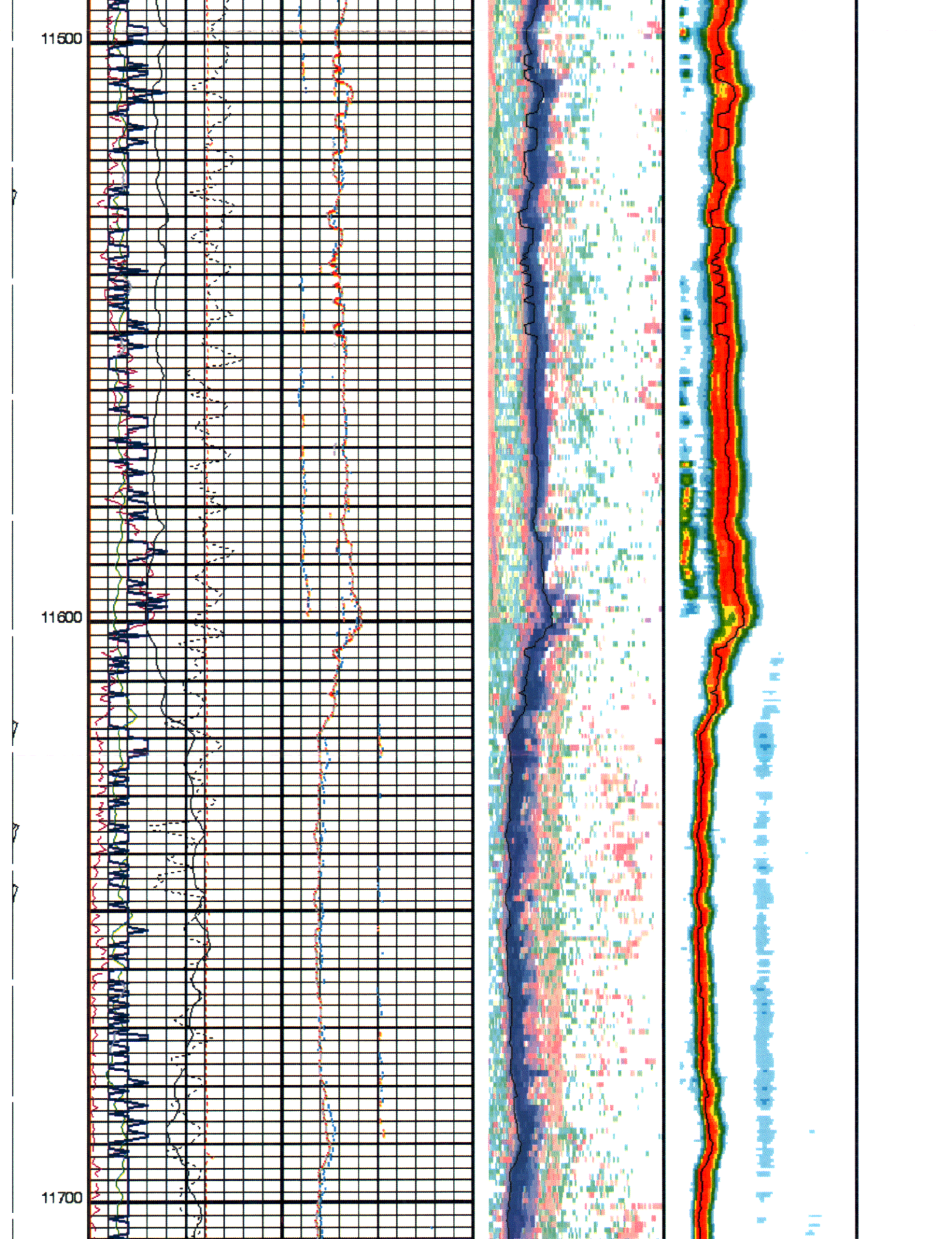
BS
DTSH5
DTSH5



RECD OCT 14 2011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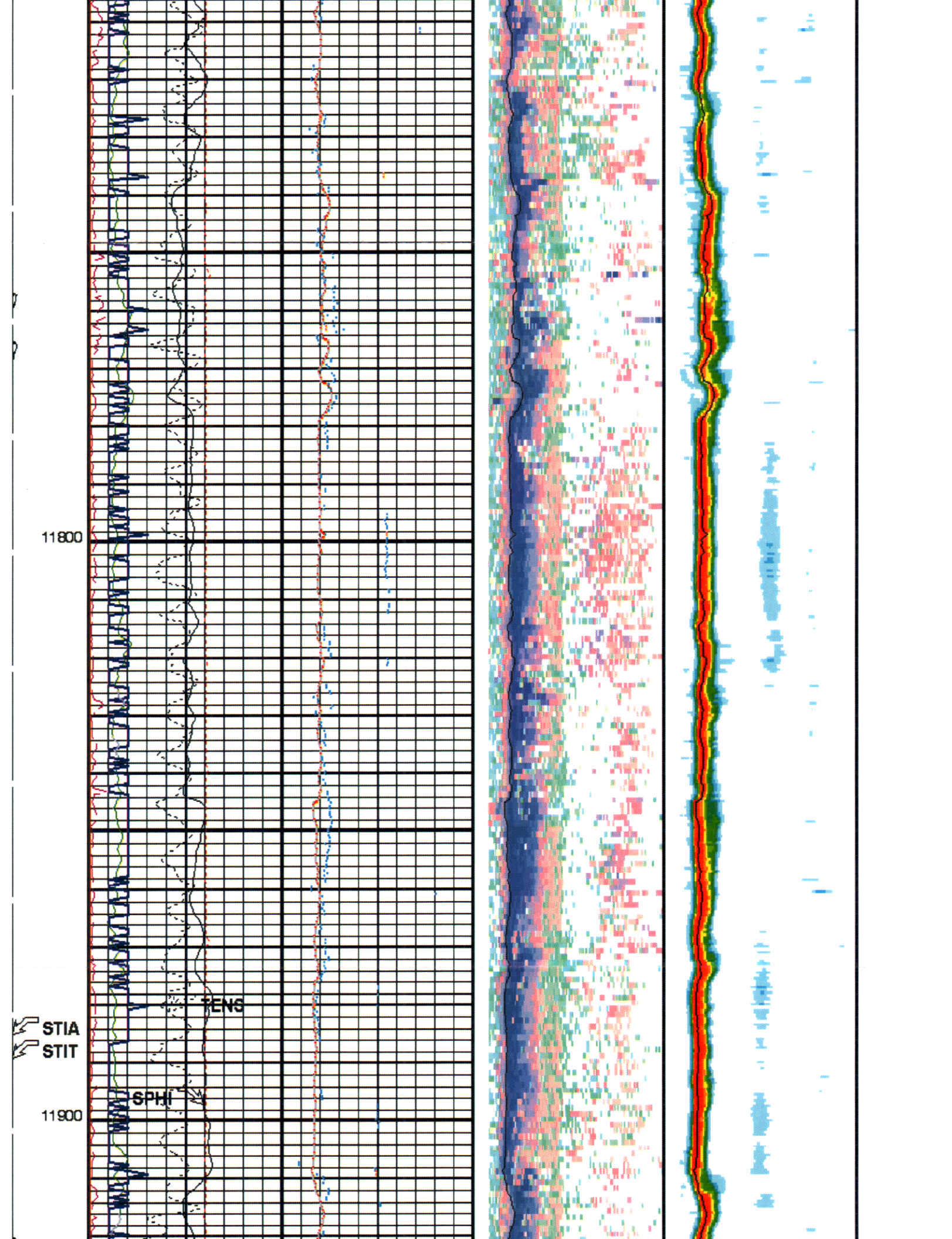
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STIT
SPHI
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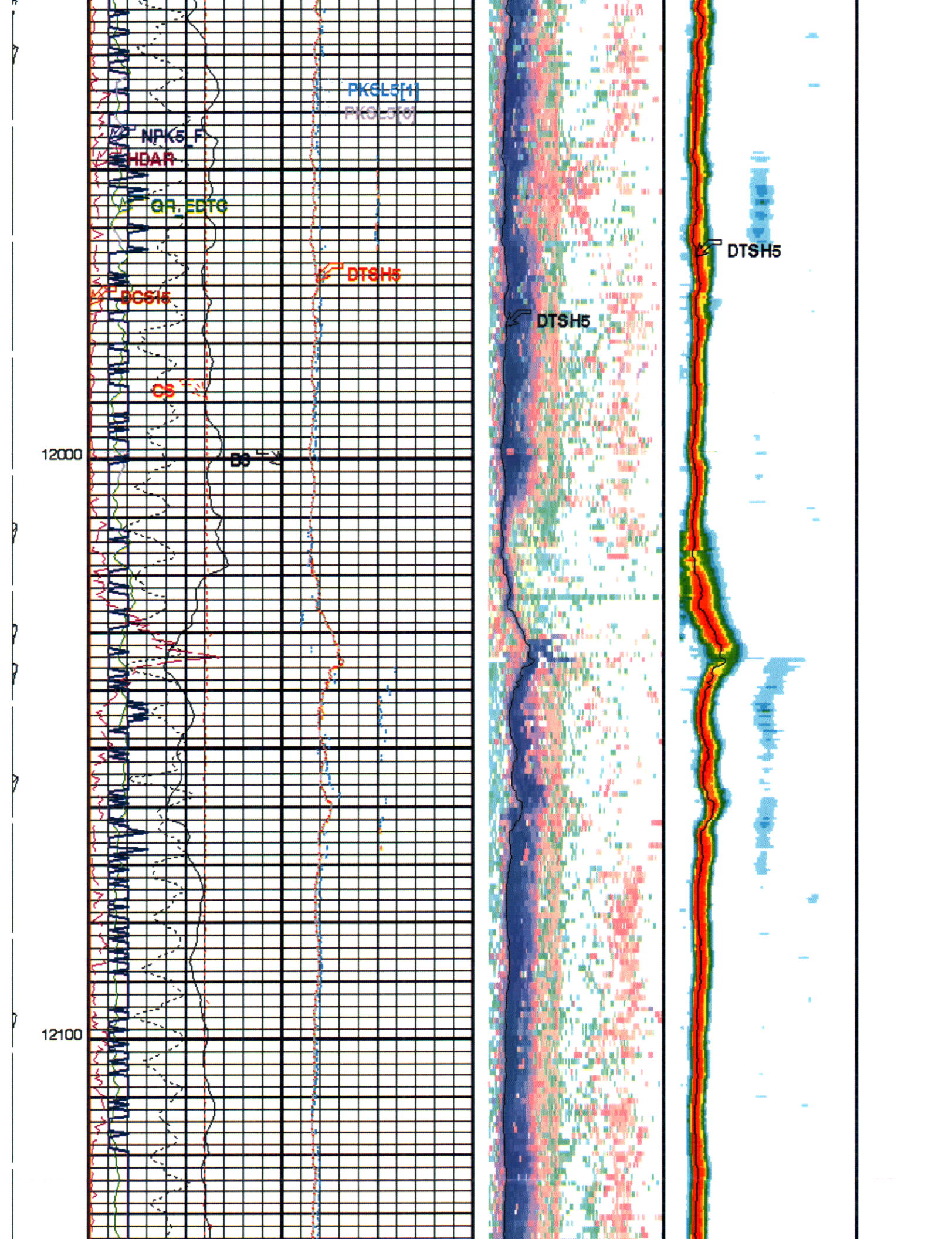
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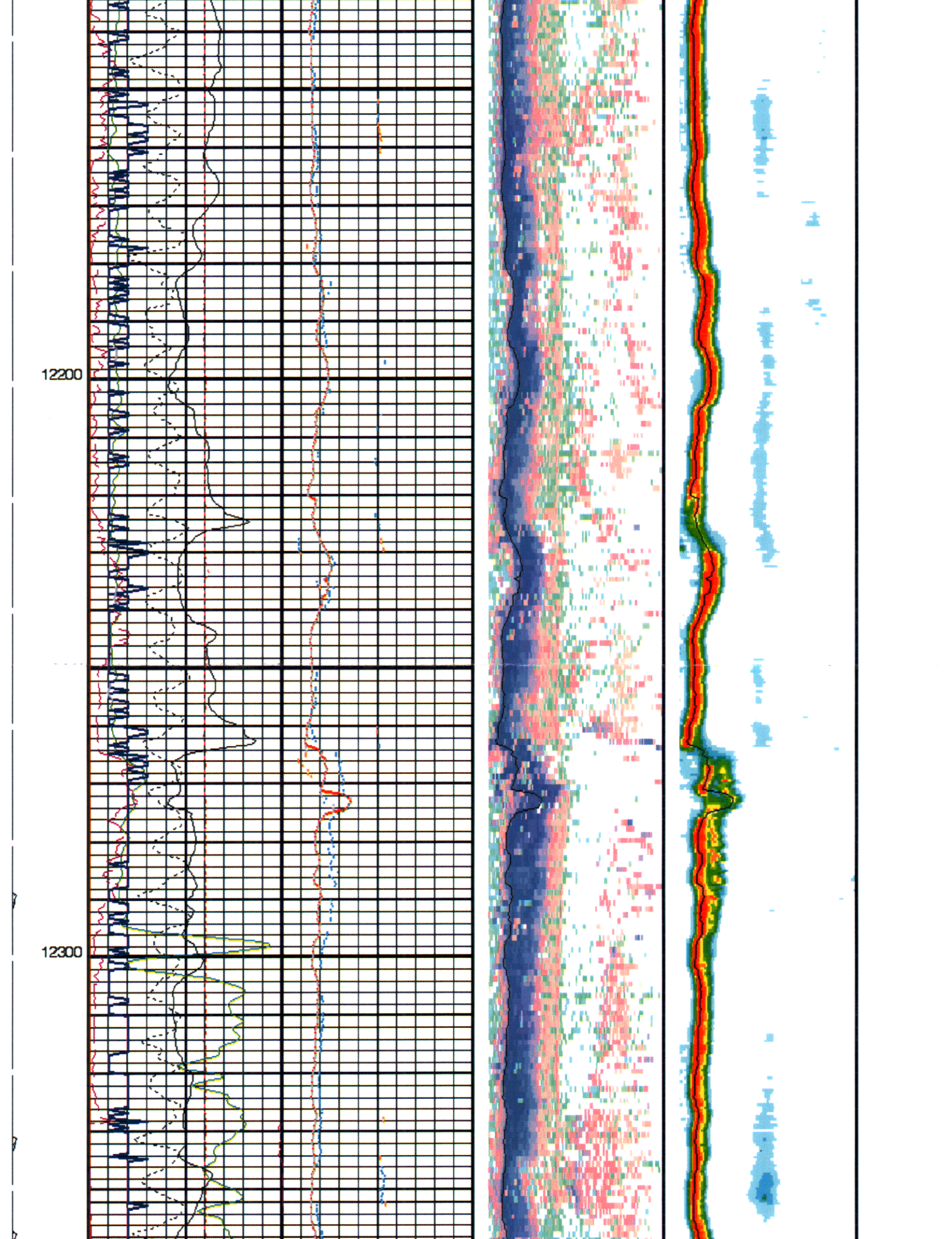
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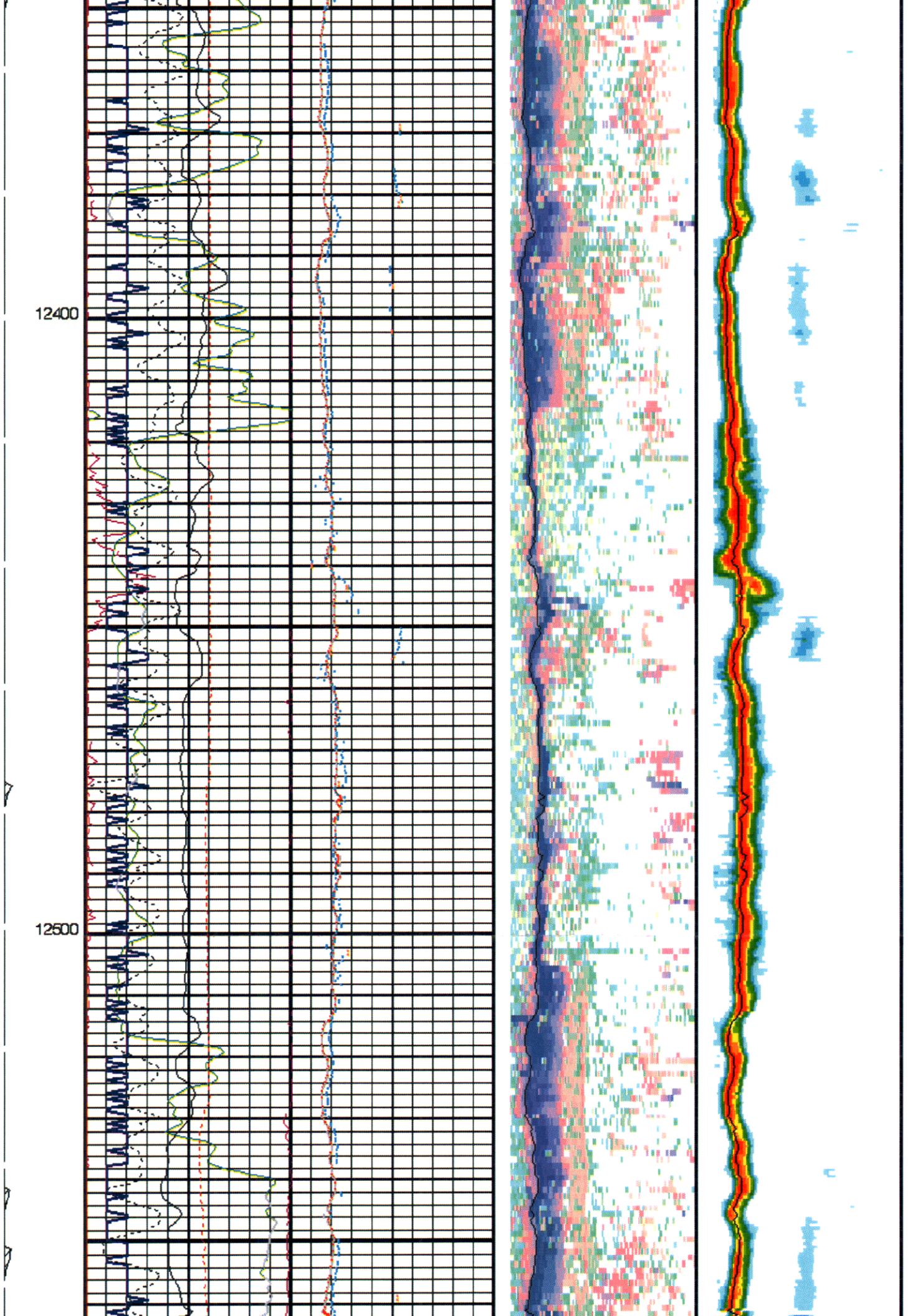

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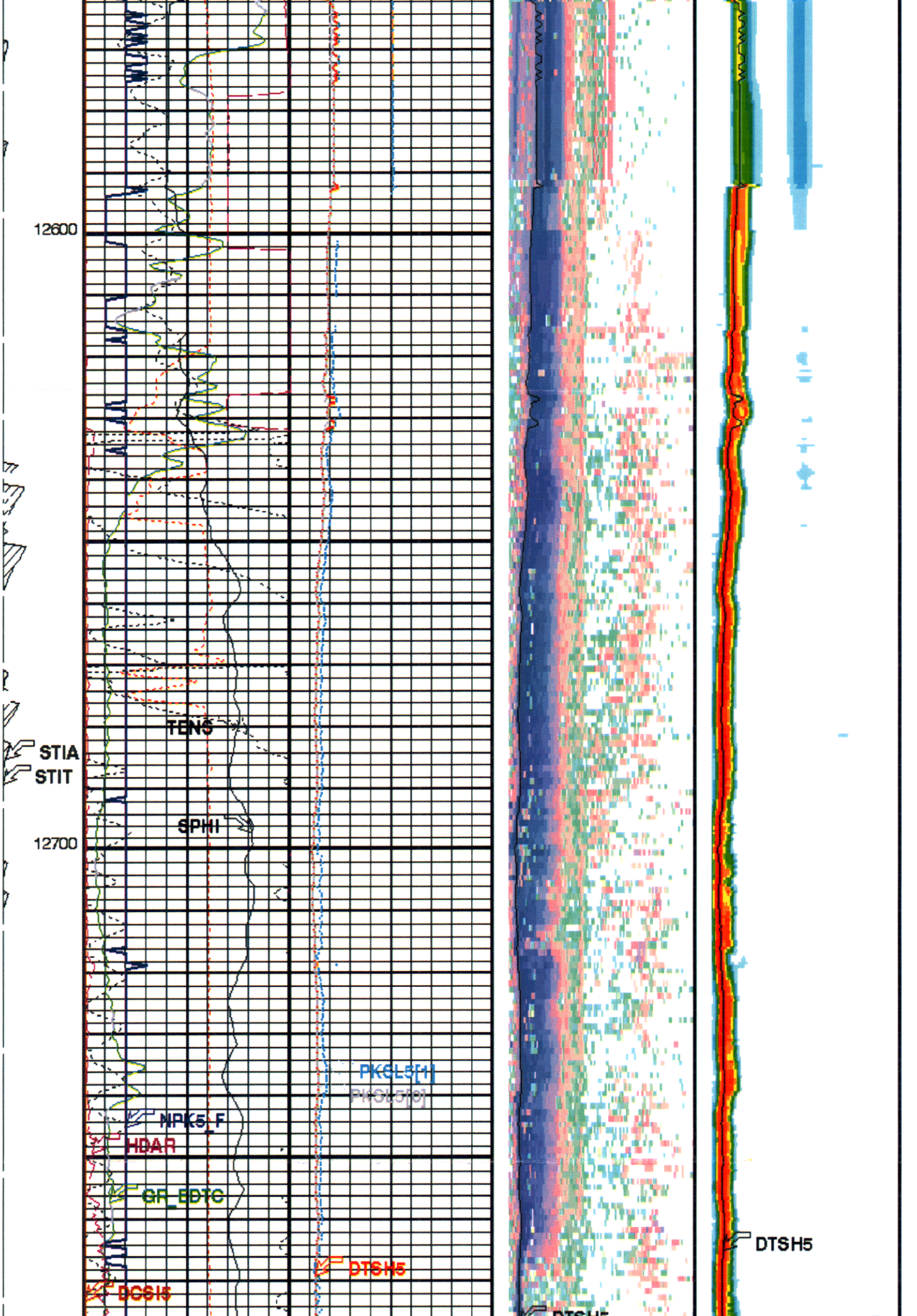
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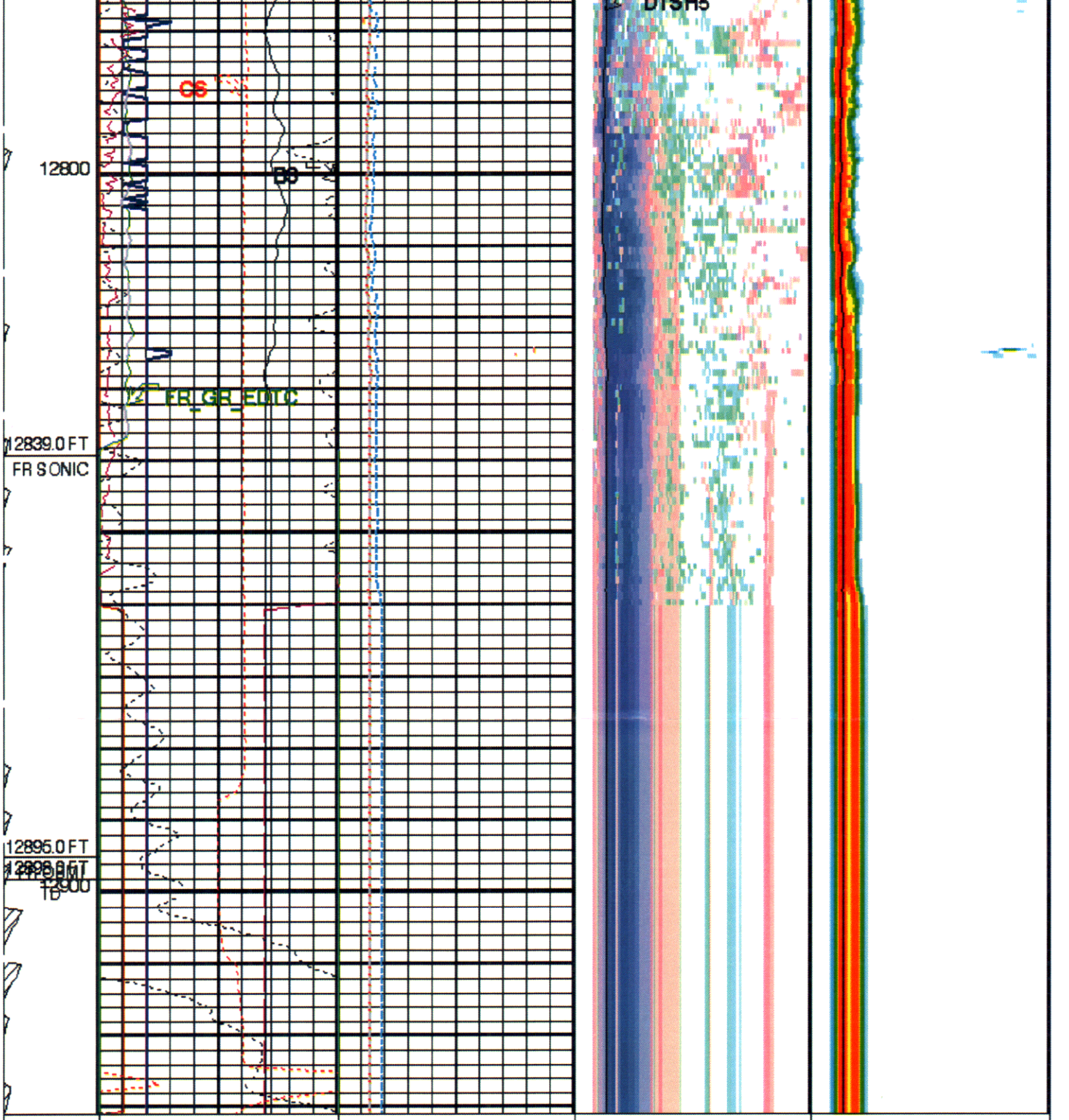
GR_EDTC
DTSH5
DCSI5
DTSH5



Stuck Stretch (STIT) 0 (F) 50	Bit Size (BS) 6 (IN) 16	Shear Slowness 5 (DTSH5) 40 (US/F) 540	Shear Slowness 5 (DTSH5) 40 (US/F) 540	Shear Slowness 5 (DTSH5) 40 (US/F) 540
Cable Drag From D4T to STIT	Cable Speed (CS) 0 (F/HR) 2000	Peak Slowness PKSL5[0] (PKSL5[0]) 40 (US/F) 540	TKO SFA 5 (TKO_SFA5) (---)	Min Amplitude Max Slowness Projection 5 (SPJ5) 40 (US/F) 540
Tool/Tot. Drag From D4T to STIA	Data Copy Status Indicator 5 (DCSI5) 0 (---) 10	Peak Slowness PKSL5[1] (PKSL5[1]) 40 (US/F) 540		
	Gamma Ray (GR_EDTC) 0 (GAPI) 150	Peak Slowness PKSL5[2] (PKSL5[2]) 40 (US/F) 540		

Sonic Porosity (SPHI) 0.45 (V/V) -0.15	Peak Slowness PKSL5[3] (PKSL5[3]) 40 (US/F) 540
Tension (TENS) 2000 (LBF) 0	Peak Slowness PKSL5[4] (PKSL5[4]) 40 (US/F) 540
Hole Diameter from Area (HDAR) 6 (IN) 14	
Number of Peaks for STC 5 (NPK5_F) 0 (----) 10	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MAPC-B: Multimode Array Sonic Power Cartridge		
BHS	Borehole Status	OPEN	
BS	Bit Size	6.000	IN
CDTS	C-Delta-T Shale	100	US/F
DCRMVL	DC Offset Removal Option	DC_MULTIPLE	
DLHS	Hole Diameter Source for SOBS Channel	AUTO	
DTF	Delta-T Fluid	221.6	US/F
DTM	Delta-T Matrix	56	US/F
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
U_SLL5_MAST	MAST DSTC Slowness Lower Limit 5	80	US/F
U_SUL5_MAST	MAST DSTC Slowness Upper Limit 5	540	US/F
	EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	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
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
FCD	Future Casing (Outer) Diameter	4.5	IN
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
	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		
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	32.00	LB/F
DO	Depth Offset for Playback	19.0	FT
PP	Playback Processing	OFF	
TD	Total Depth	12898	FT

Format: MAST_TKO_SFA_LQC_XD 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	

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

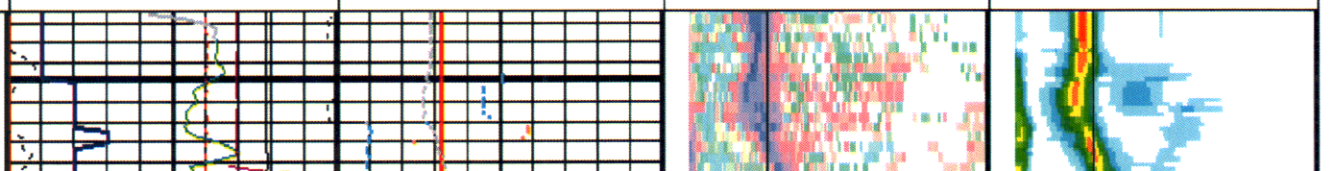
PIP SUMMARY

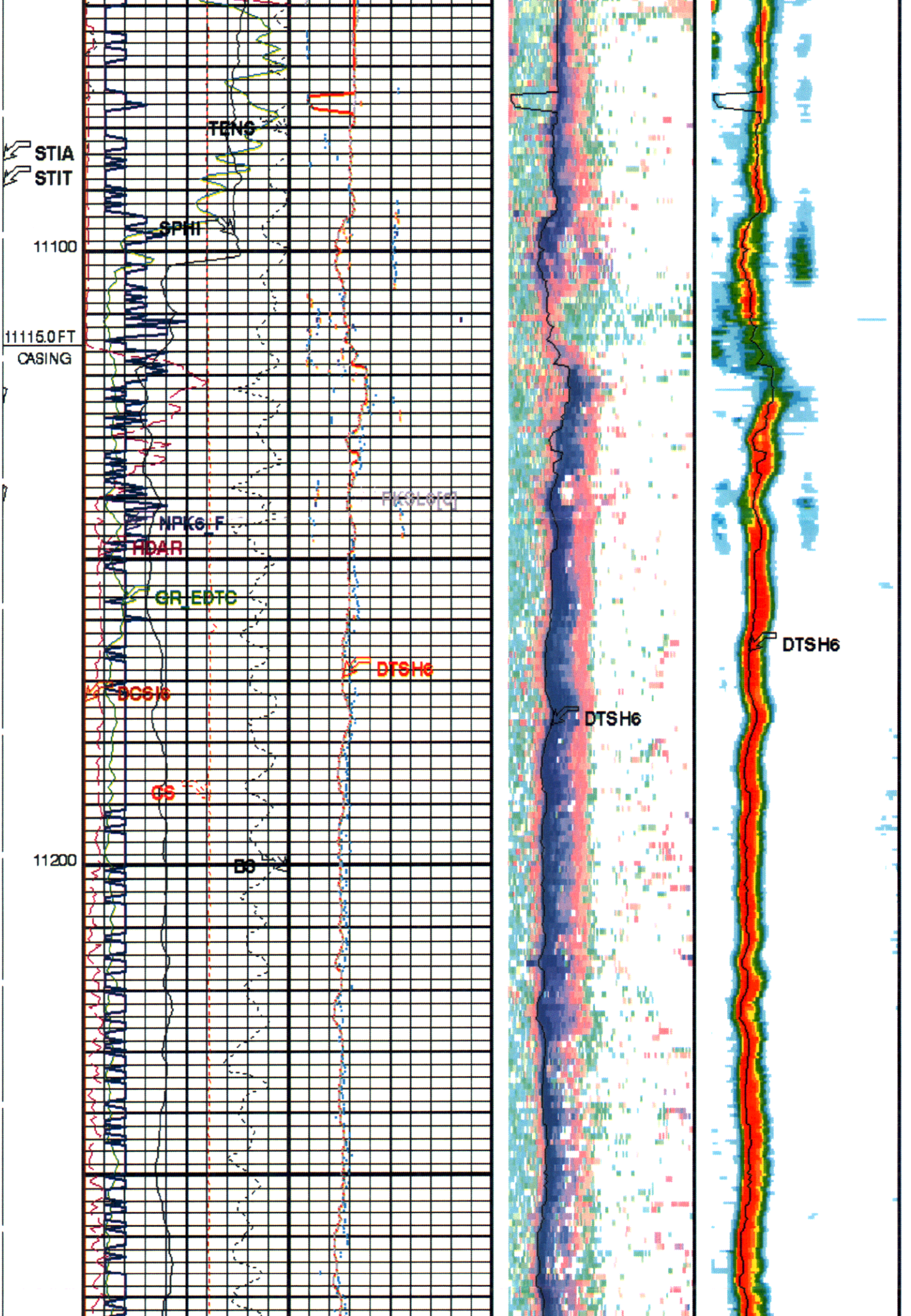
Time Mark Every 60 S

	Number of Peaks for STC 6 (NPK6_F) 0 (----) 10		
	Hole Diameter from Area (HDAR) 6 (IN) 14		
	Tension (TENS) 2000 (LBF) 0	Peak Slowness PKSL6[4] (PKSL6[4]) 40 (US/F) 540	
	Sonic Porosity (SPHI) 0.45 (V/V) -0.15	Peak Slowness PKSL6[3] (PKSL6[3]) 40 (US/F) 540	
	Gamma Ray (GR_EDTC) 0 (GAPI) 150	Peak Slowness PKSL6[2] (PKSL6[2]) 40 (US/F) 540	
Tool/Tot. Drag From D4T to STIA	Data Copy Status Indicator 6 (DCSI6) 0 (----) 10	Peak Slowness PKSL6[1] (PKSL6[1]) 40 (US/F) 540	
Cable Drag From D4T to STIT	Cable Speed (CS) 0 (F/HR) 2000	Peak Slowness PKSL6[0] (PKSL6[0]) 40 (US/F) 540	TKO SFA 6 (TKO_SFA6) (----)
Stuck Stretch (STIT) 0 (F) 50	Bit Size (BS) 6 (IN) 16	Shear Slowness 6 (DTSH6) 40 (US/F) 540	Shear Slowness 6 (DTSH6) 40 (US/F) 540

Min Amplitude Max — Slowness Projection 6 (SPJ6) 40 (US/F) 540

Shear Slowness 6 (DTSH6) 40 (US/F) 540

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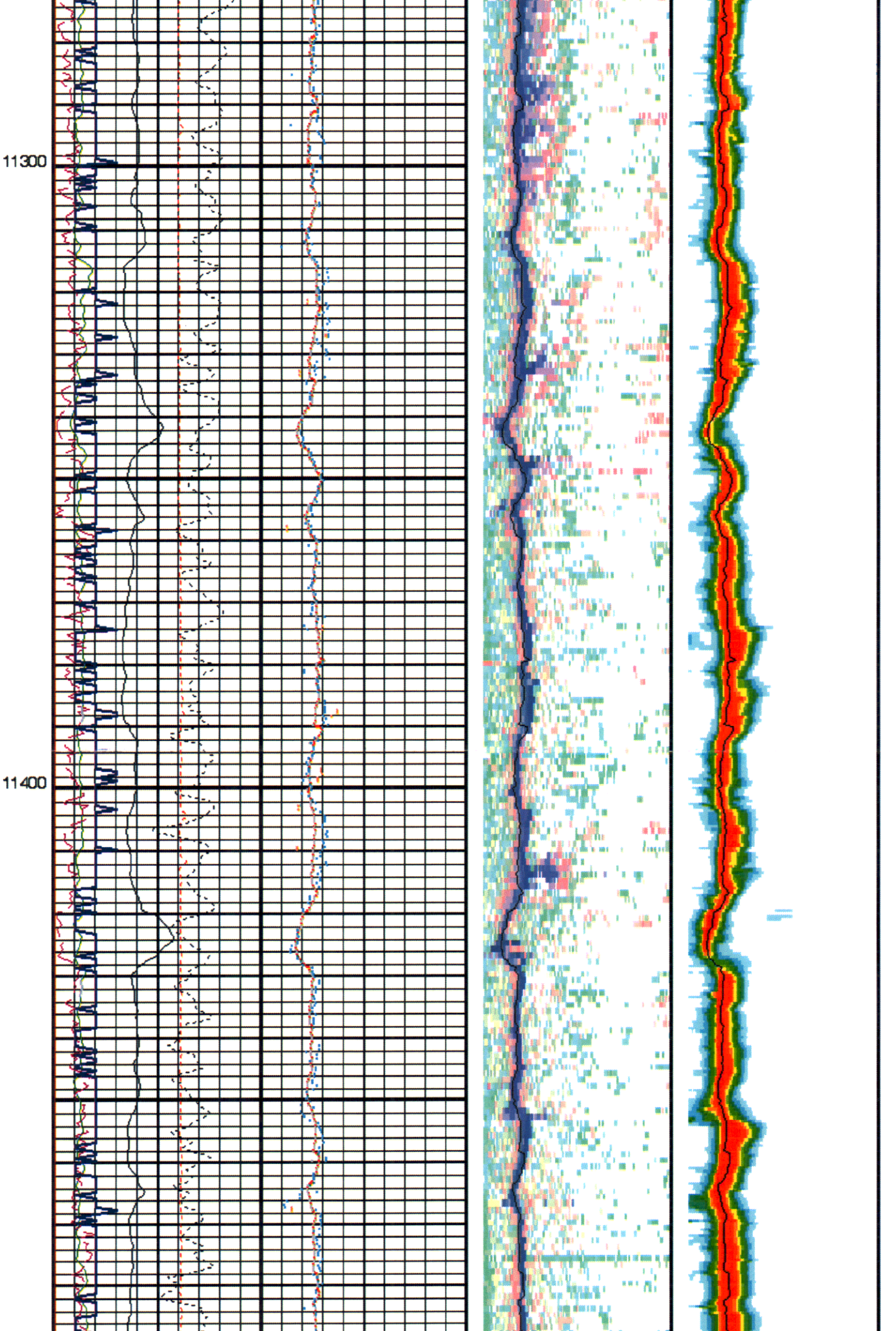
DTSH6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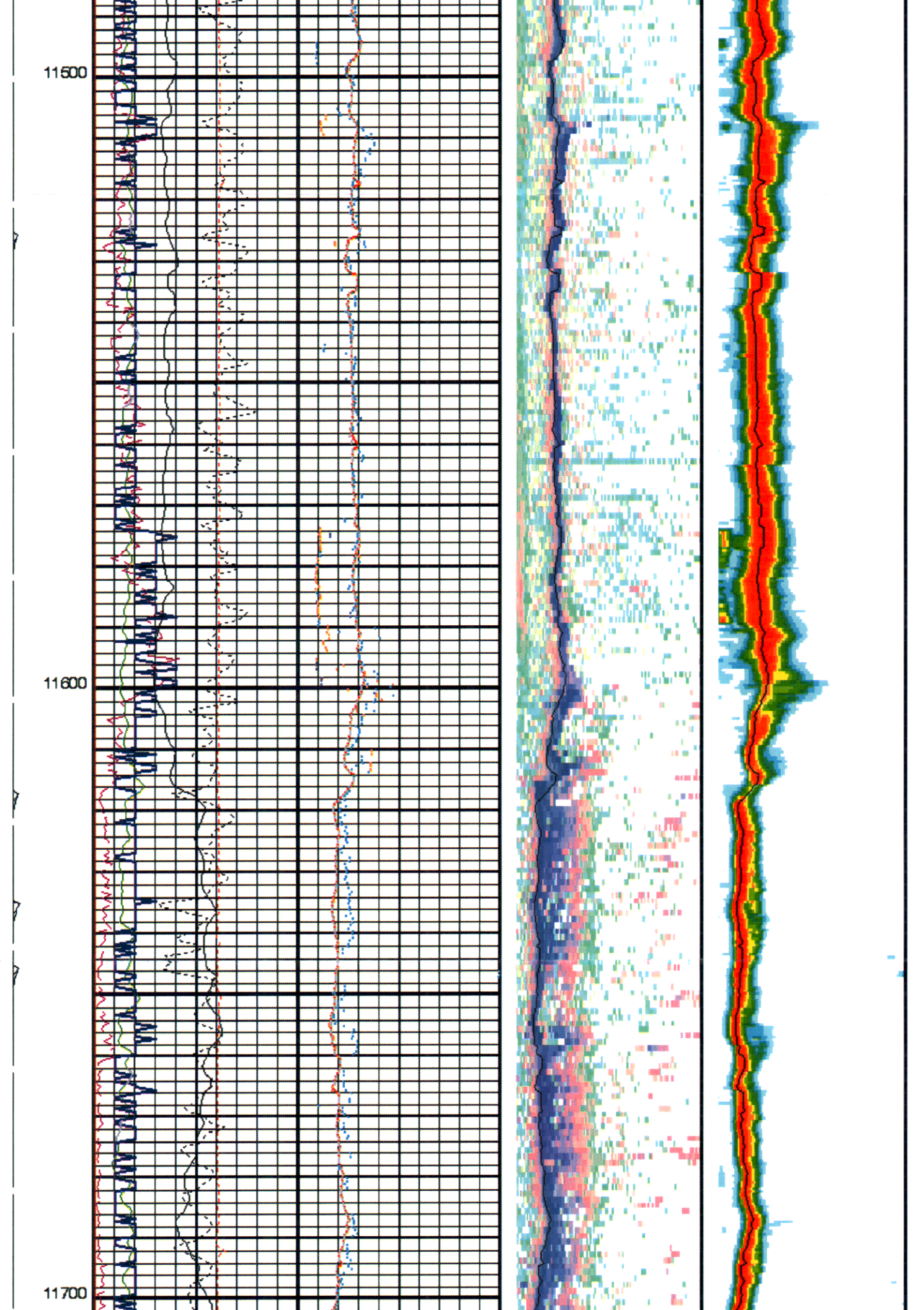

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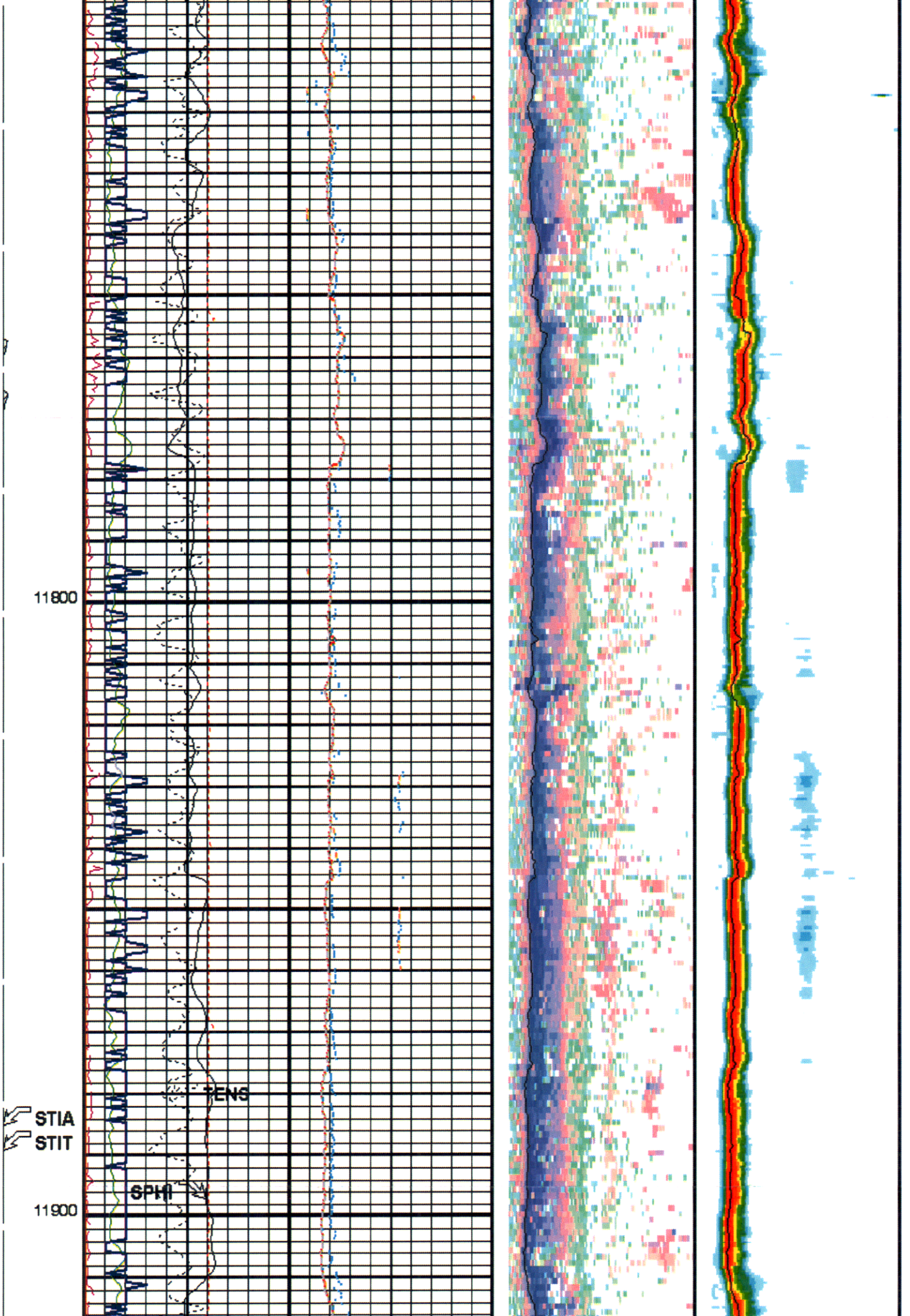
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STIT
SPHI
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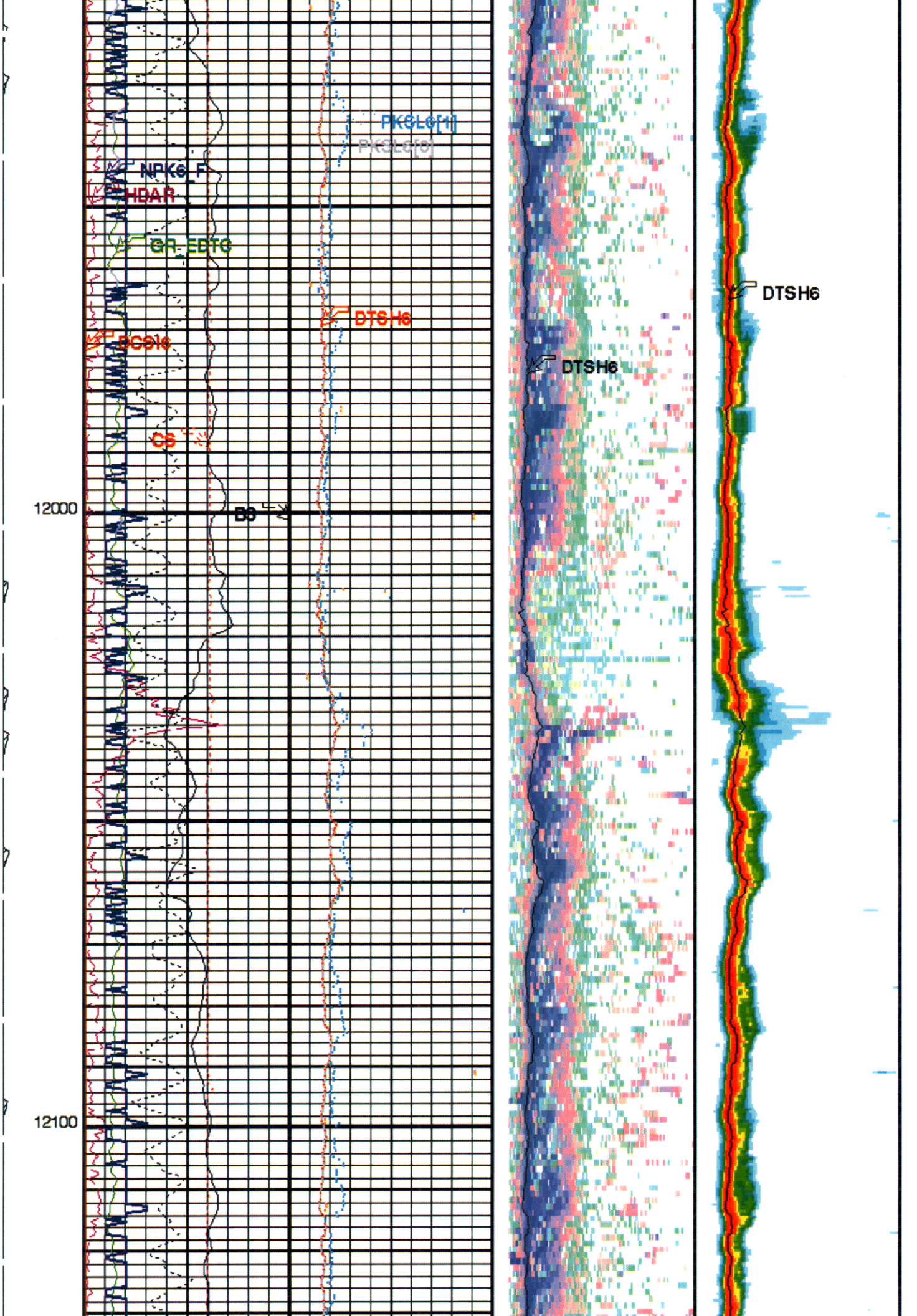
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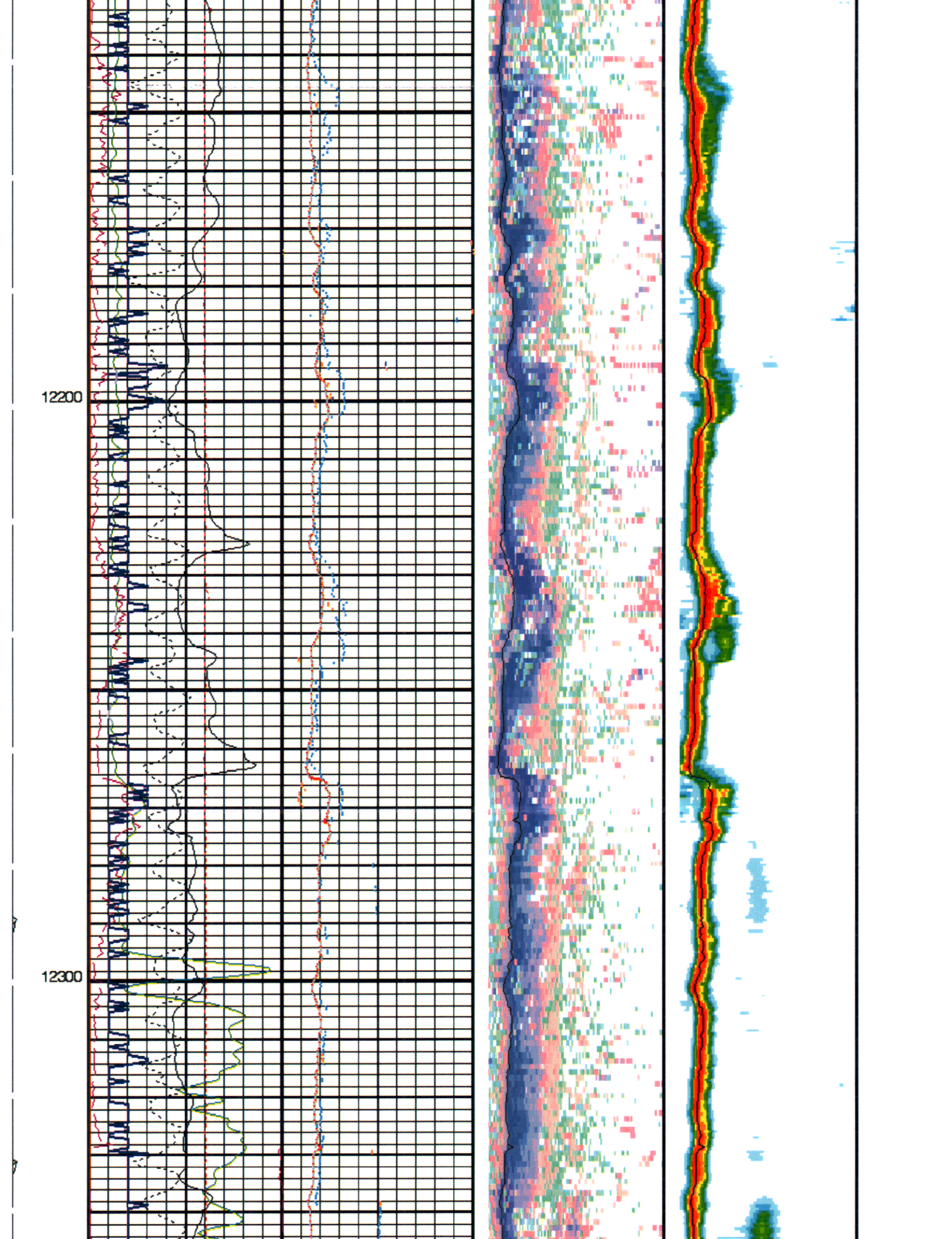
DTSH6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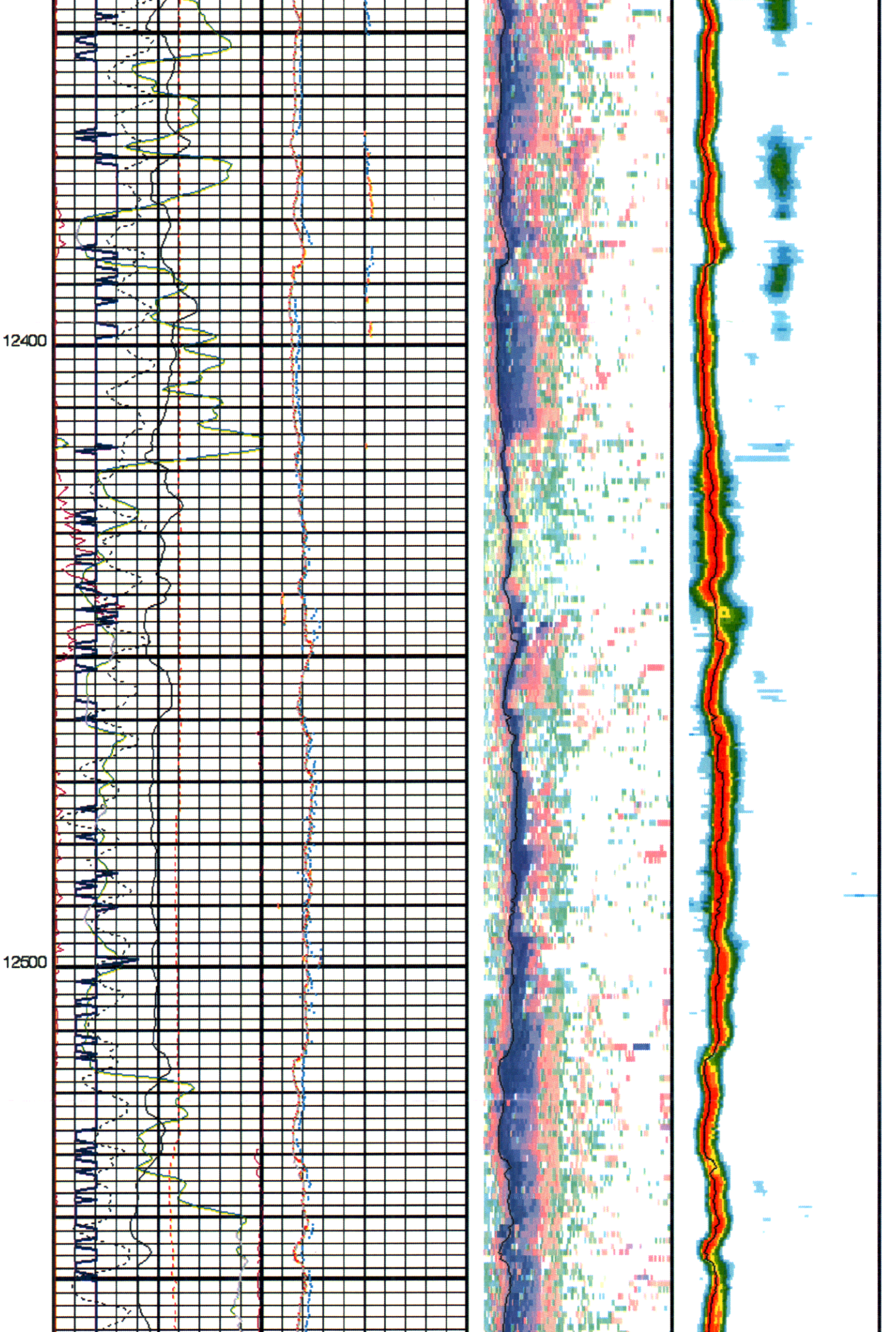
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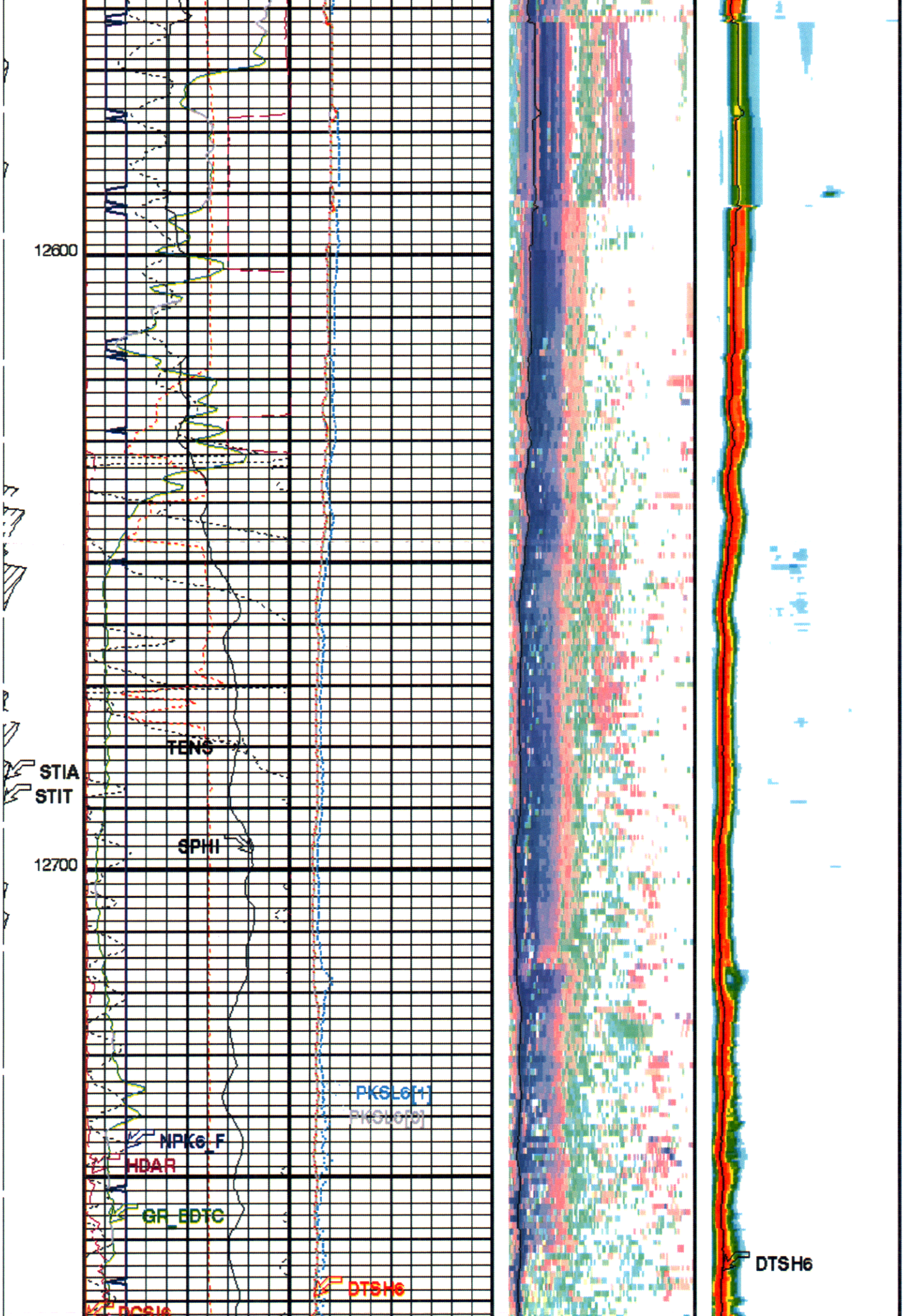
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PKSL6[2]
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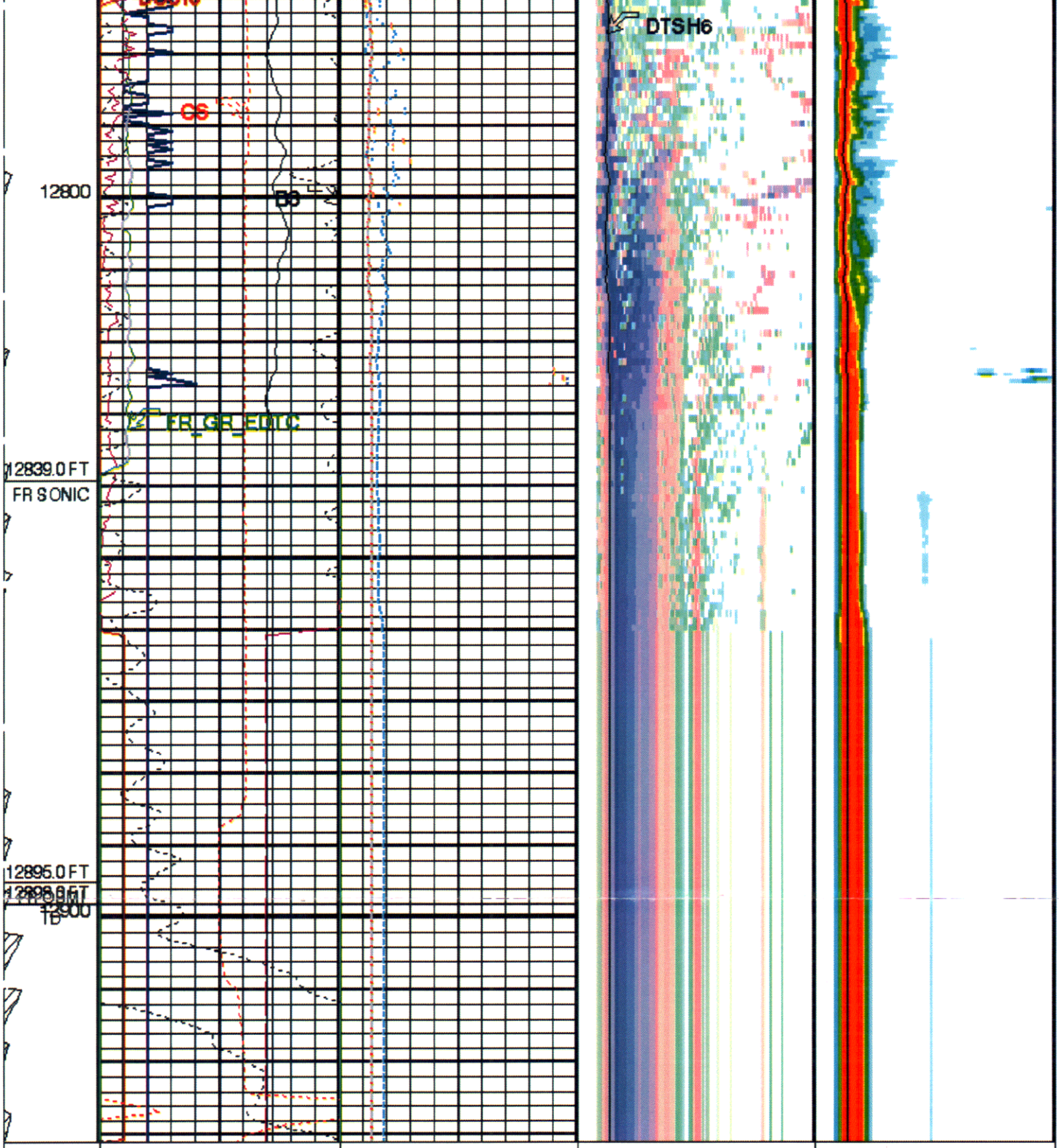
HDAR
GR_BDTC
DTSH6
DTSH6



Stuck Stretch (STIT) 0 (F) 50	Bit Size (BS) 6 (IN) 16	Shear Slowness 6 (DTSH6) 40 (US/F) 540	Shear Slowness 6 (DTSH6) 40 (US/F) 540	Shear Slowness 6 (DTSH6) 40 (US/F) 540
Cable Drag From D4T to STIT	Cable Speed (CS) 0 (F/HR) 2000	Peak Slowness PKSL6[0] (PKSL6[0]) 40 (US/F) 540	TKO SFA 6 (TKO_SFA6) (----)	Min Amplitude Max Slowness Projection 6 (SPJ6) 40 (US/F) 540
Tool/Tot. Drag From D4T to STIA	Data Copy Status Indicator 6 (DCSI6) 0 (----) 10	Peak Slowness PKSL6[1] (PKSL6[1]) 40 (US/F) 540		
	Gamma Ray (GR_EDTC) 0 (GAPI) 150	Peak Slowness PKSL6[2] (PKSL6[2])		

40 (US/F) 540	
Sonic Porosity (SPHI) 0.45 (V/V) -0.15	Peak Slowness PKSL6[3] (PKSL6[3]) 40 (US/F) 540
Tension (TENS) 2000 (LBF) 0	Peak Slowness PKSL6[4] (PKSL6[4]) 40 (US/F) 540
Hole Diameter from Area (HDAR) 6 (IN) 14	
Number of Peaks for STC 6 (NPK6_F) 0 (----) 10	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MAPC-B: Multimode Array Sonic Power Cartridge		
BHS	Borehole Status	OPEN	
BS	Bit Size	6.000	IN
CDTS	C-Delta-T Shale	100	US/F
DCRMVL	DC Offset Removal Option	DC_MULTIPLE	
DLHS	Hole Diameter Source for SOBS Channel	AUTO	
DTF	Delta-T Fluid	221.6	US/F
DTM	Delta-T Matrix	56	US/F
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
U_SLL6_MAST	MAST DSTC Slowness Lower Limit 6	80	US/F
U_SUL6_MAST	MAST DSTC Slowness Upper Limit 6	540	US/F
	EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	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
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
FCD	Future Casing (Outer) Diameter	4.5	IN
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
	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		
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	32.00	LB/F
DO	Depth Offset for Playback	19.0	FT
PP	Playback Processing	OFF	
TD	Total Depth	12898	FT

Format: MAST_TKO_SFA_LQC_YD 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

RECD OCT 14 2011

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

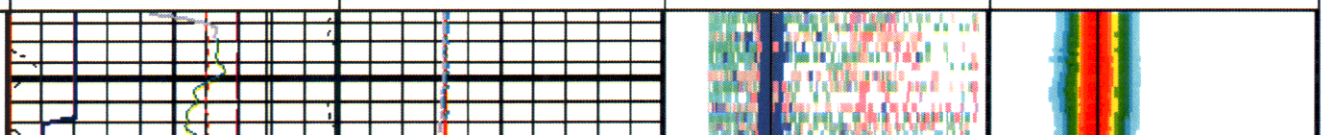
OP System Version: 19C0-187

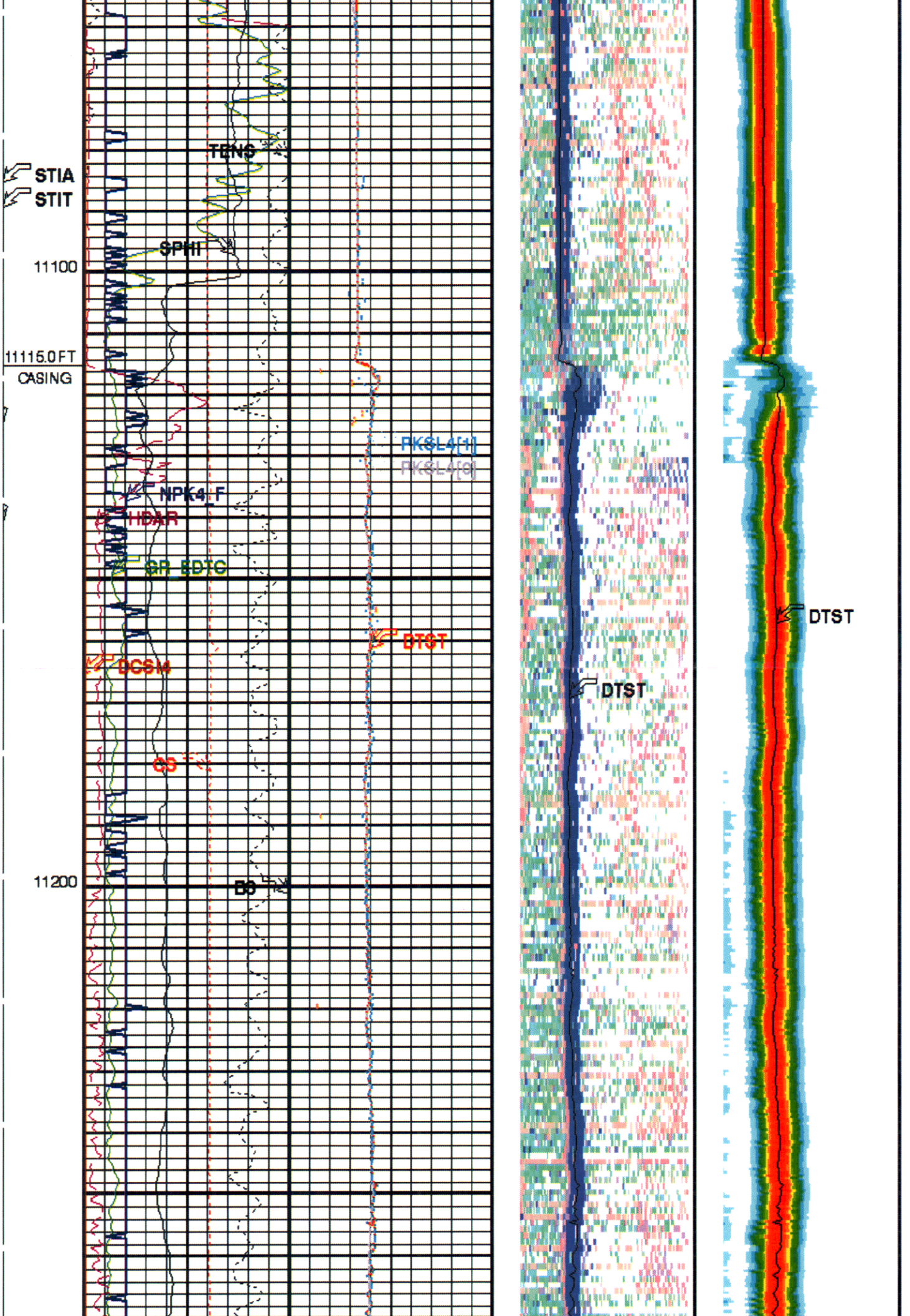
OBMT-D2	19C0-187	OBMT-F	19C0-187
GPIT-F	19C0-187	PPC1	19C0-187
MAXS-B	19C0-187	MAPC-B	19C0-187
PPC2	19C0-187	EDTC-B	19C0-187

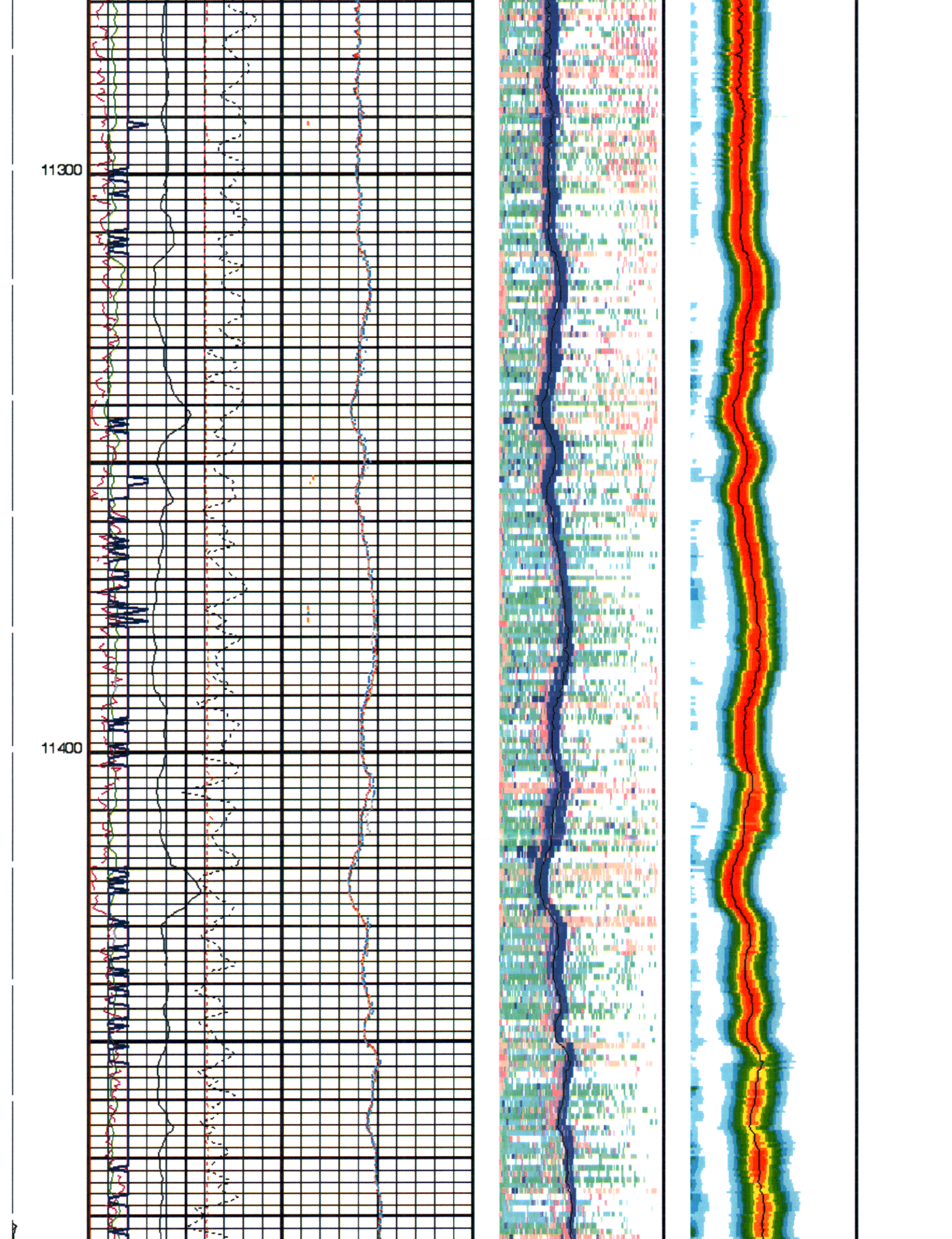
PIP SUMMARY

Time Mark Every 60 S

	Number of Peaks for STC 4 (NPK4_F) 0 (----) 10			
	Hole Diameter from Area (HDAR) 6 (IN) 14			
	Tension (TENS) 2000 (LBF) 0	Peak Slowness PKSL4[4] (PKSL4[4]) 100 (US/F) 700		
	Sonic Porosity (SPHI) 0.45 (V/V) -0.15	Peak Slowness PKSL4[3] (PKSL4[3]) 100 (US/F) 700		
	Gamma Ray (GR_EDTC) 0 (GAPI) 150	Peak Slowness PKSL4[2] (PKSL4[2]) 100 (US/F) 700		
Tool/Tot. Drag From D4T to STIA	Data Copy Status Indicator 4 (DCSI4) 0 (----) 10	Peak Slowness PKSL4[1] (PKSL4[1]) 100 (US/F) 700		
Cable Drag From D4T to STIT	Cable Speed (CS) 0 (F/HR) 2000	Peak Slowness PKSL4[0] (PKSL4[0]) 100 (US/F) 700	TKO SFA 4 (TKO_SFA4) (----)	Min Amplitude Max; Stoneley Slowness Projection (SPJ4) 100 (US/F) 700
Stuck Stretch (STIT) 0 (F) 50	Bit Size (BS) 6 (IN) 16	Stoneley Slowness (DTST) 100 (US/F) 700	Stoneley Slowness (DTST) 100 (US/F) 700	Stoneley Slowness (DTST) 100 (US/F) 700




TENS
STIA
STIT
SPHI
11100
11115.0 FT
CASING
PKSL4[1]
PKSL4[0]
NPK4_F
HDAR
GR_EDTC
DTST
DCSM
DTST
CS
11200
BO
DTST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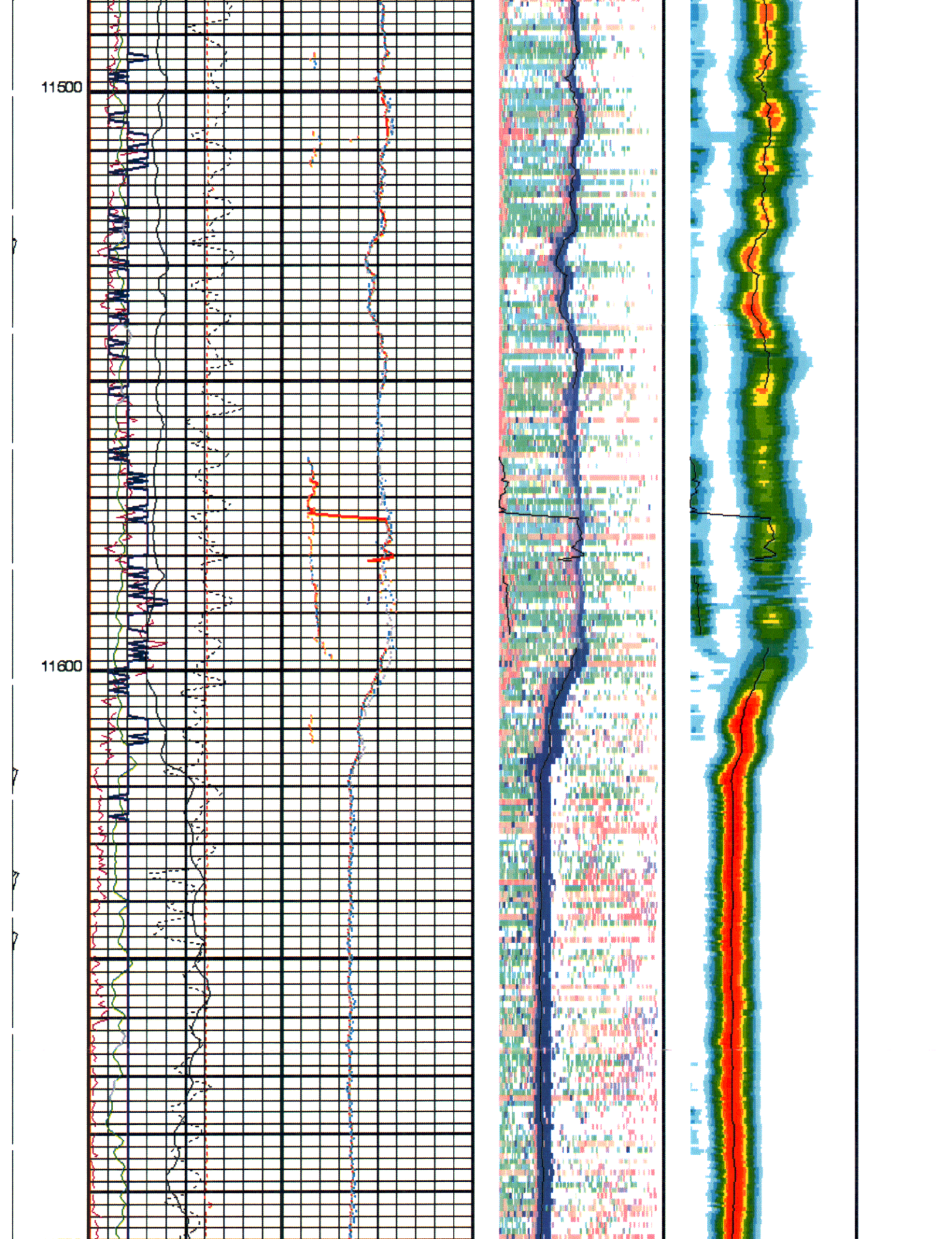
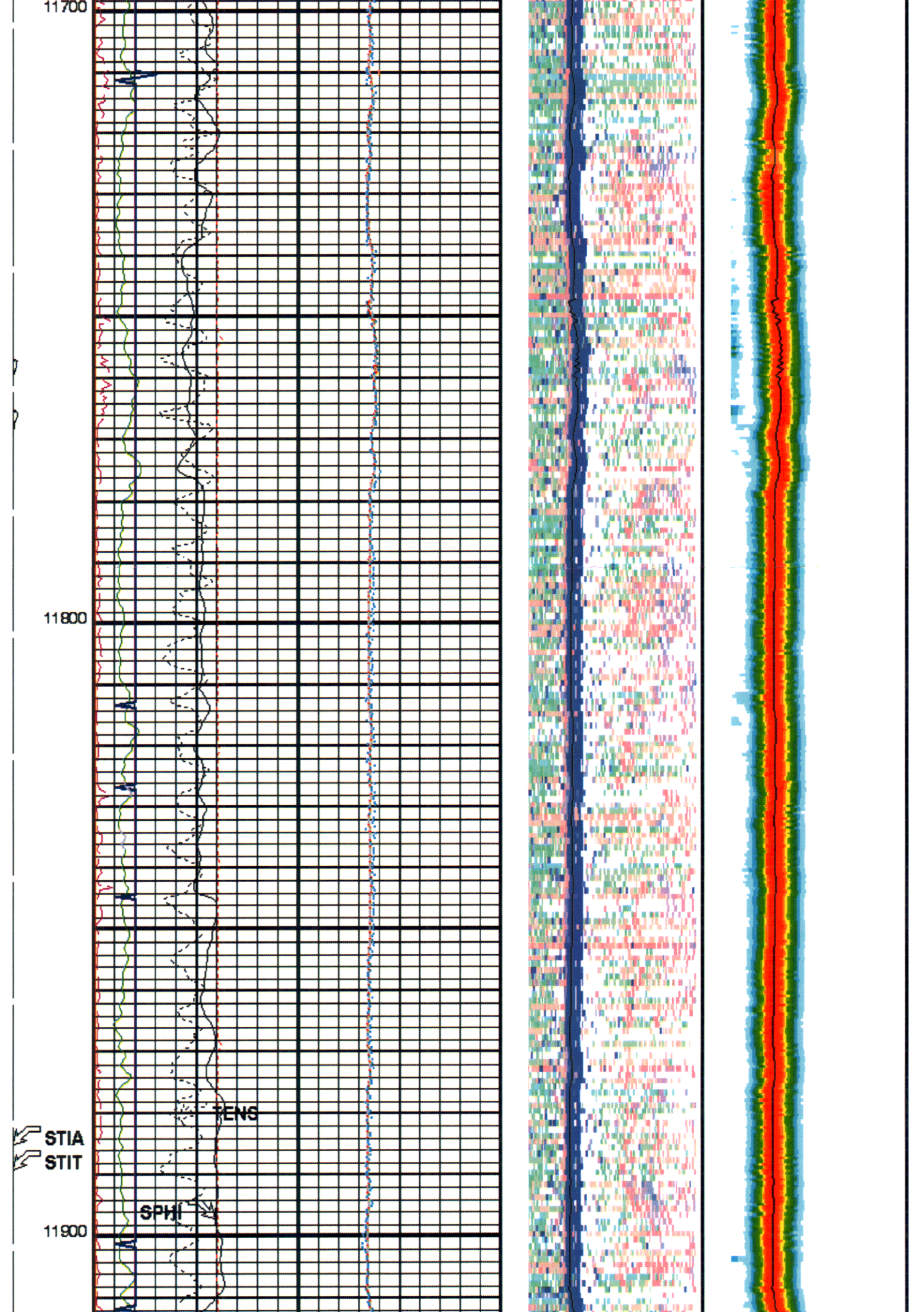
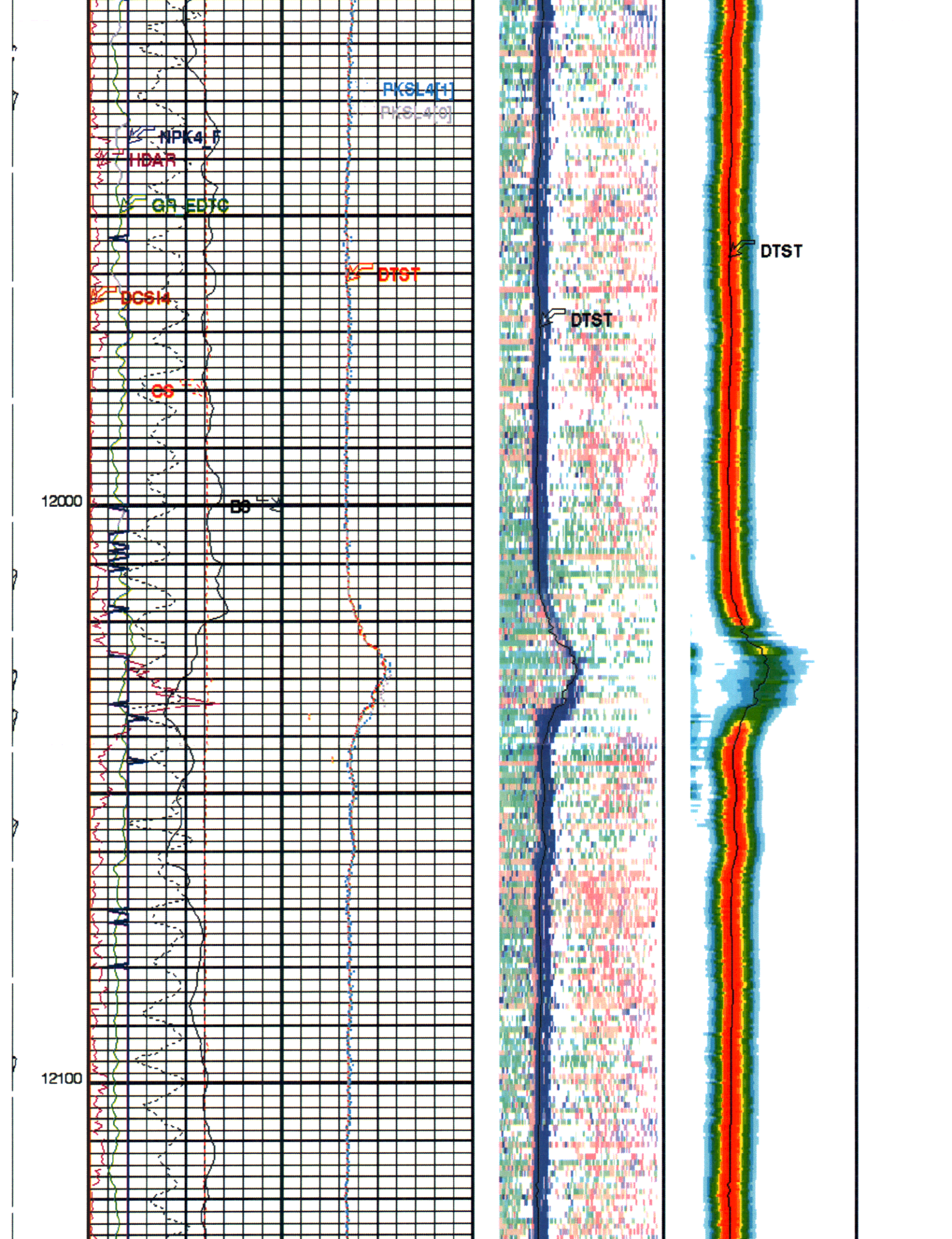
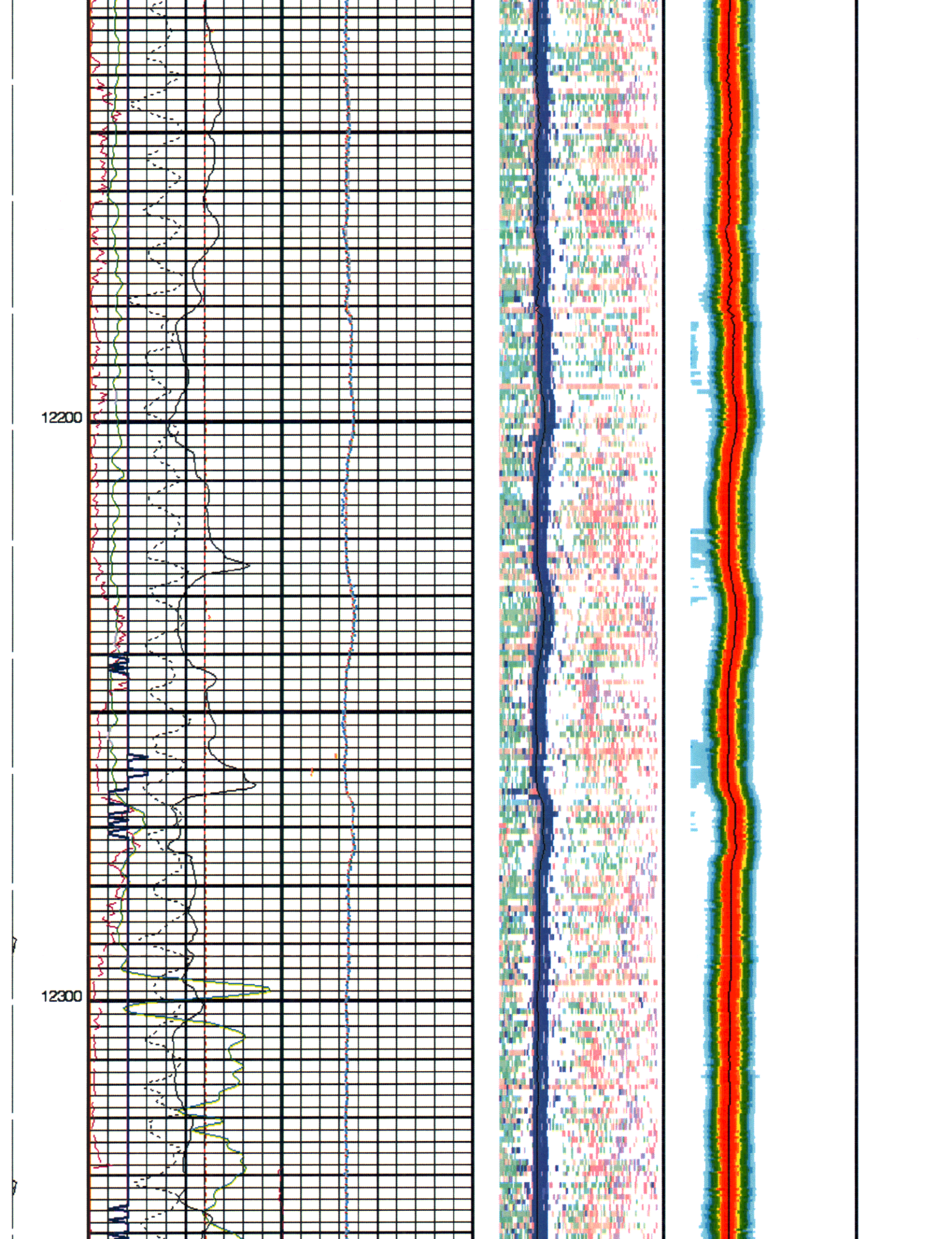
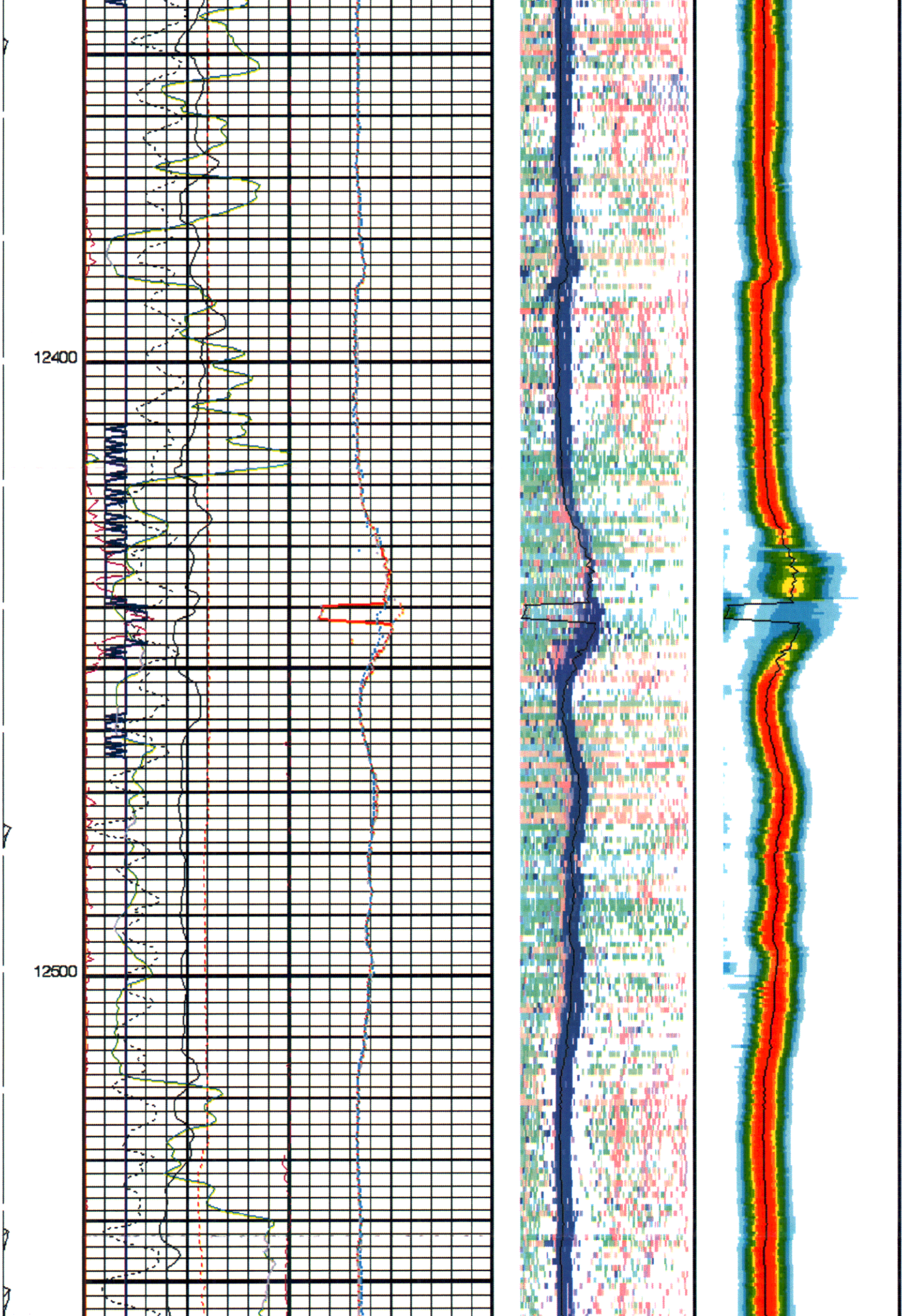
11400

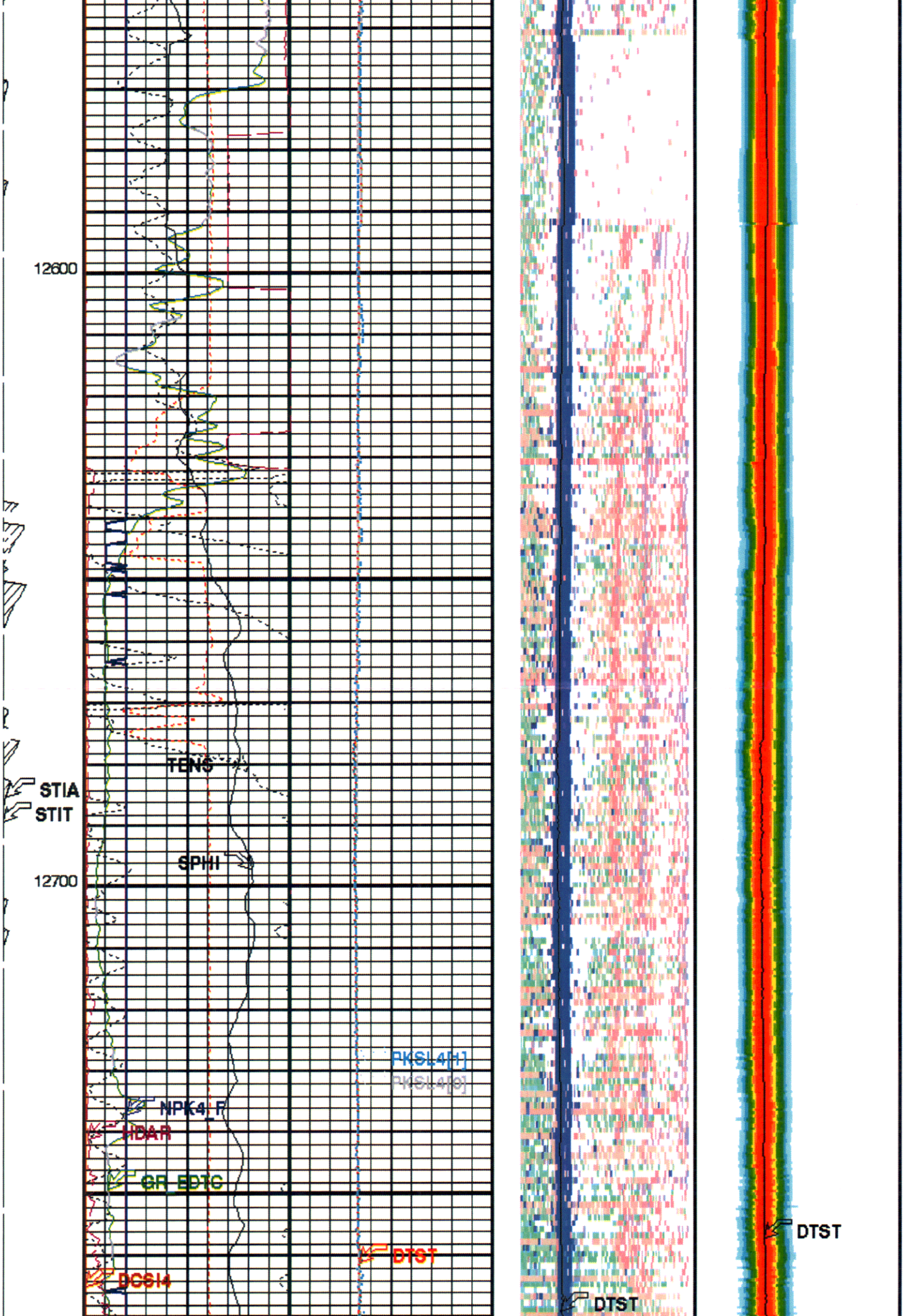

11500
11600

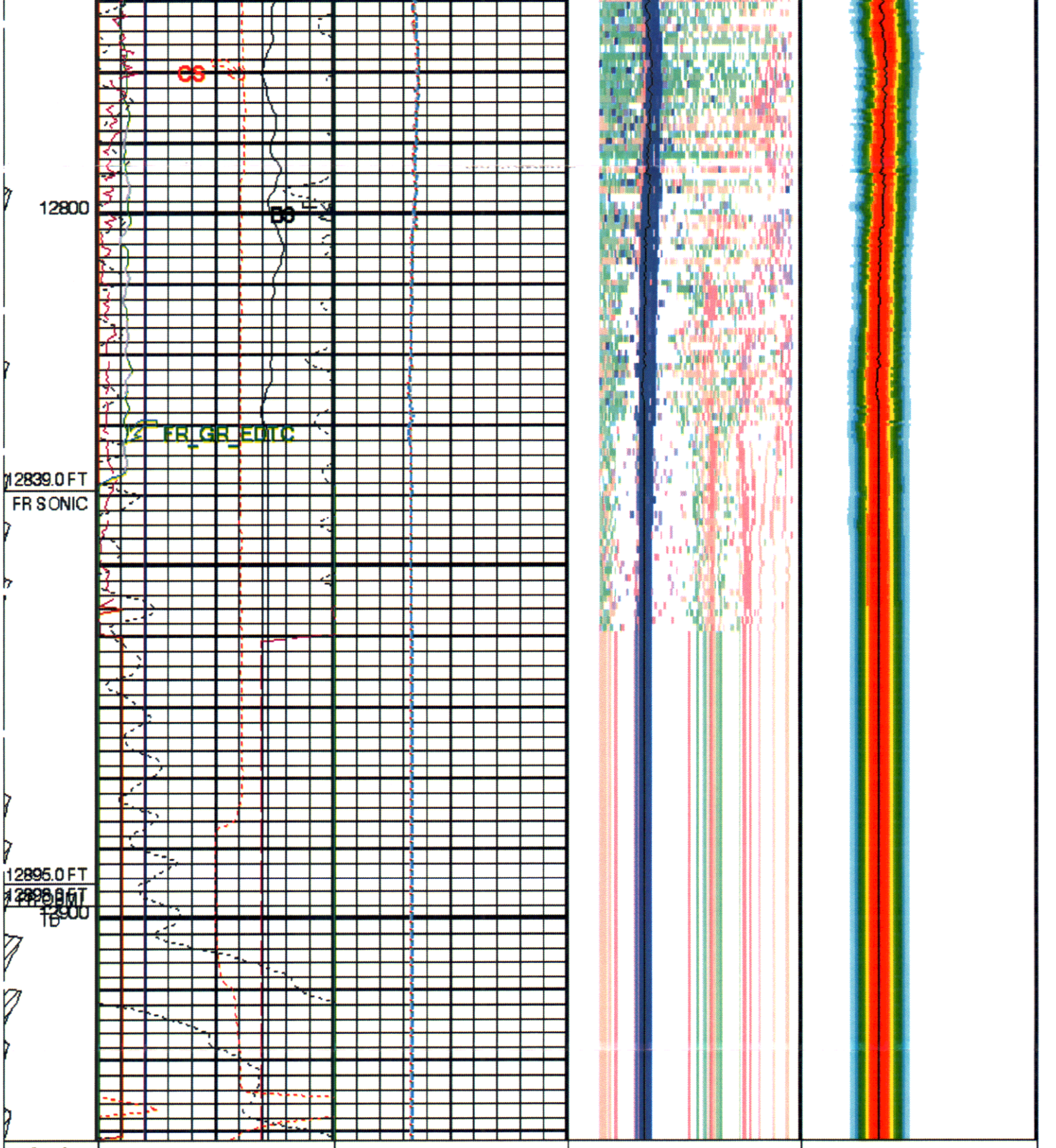

11700
11800
11900
TENS
STIA
STIT
SPHI


PKSL4[1]
PKSL4[0]
NPK4_F
HDAR
GR_EDTC
DTST
DCSI4
CS
BS
12000
12100
DTST
DTST


12200
12300


12400
12500


12600
TENS
STIA
STIT
SPHI
12700
PKSL4[1]
PKSL4[6]
NPK4_F
HDAR
GR_EDTC
DTST
DCSI4
DTST
DTST



Stuck Stretch (STIT) 0 (F) 50	Bit Size (BS) 6 (IN) 16	Stoneley Slowness (DTST) 100 (US/F) 700	Stoneley Slowness (DTST) 100 (US/F) 700	Stoneley Slowness (DTST) 100 (US/F) 700
Cable Drag From D4T to STIT	Cable Speed (CS) 0 (F/HR) 2000	Peak Slowness PKSL4[0] (PKSL4[0]) 100 (US/F) 700	TKO SFA 4 (TKO_SFA4) (---)	Min Amplitude Max Stoneley Slowness Projection (SPJ4) 100 (US/F) 700
Tool/Tot. Drag From D4T to STIA	Data Copy Status Indicator 4 (DCSI4) 0 (---) 10	Peak Slowness PKSL4[1] (PKSL4[1]) 100 (US/F) 700		
	Gamma Ray (GR_EDTC)	Peak Slowness PKSL4[2]		

REC

Gamma Ray (GAPI) 0 (GAPI) 150	(PKSL4[2]) 100 (US/F) 700
Sonic Porosity (SPHI) 0.45 (V/V) -0.15	Peak Slowness PKSL4[3] (PKSL4[3]) 100 (US/F) 700
Tension (TENS) 2000 (LBF) 0	Peak Slowness PKSL4[4] (PKSL4[4]) 100 (US/F) 700
Hole Diameter from Area (HDAR) 6 (IN) 14	
Number of Peaks for STC 4 (NPK4_F) 0 (----) 10	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MAPC-B: Multimode Array Sonic Power Cartridge		
BHS	Borehole Status	OPEN	
BS	Bit Size	6.000	IN
CDTS	C-Delta-T Shale	100	US/F
DCRMVL	DC Offset Removal Option	DC_MULTIPLE	
DLHS	Hole Diameter Source for SOBS Channel	AUTO	
DTF	Delta-T Fluid	221.6	US/F
DTM	Delta-T Matrix	56	US/F
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
U_SLL4_MAST	MAST DSTC Slowness Lower Limit 4	180	US/F
U_SUL4_MAST	MAST DSTC Slowness Upper Limit 4	680	US/F
	EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	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
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
FCD	Future Casing (Outer) Diameter	4.5	IN
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
	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		
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	32.00	LB/F
DO	Depth Offset for Playback	19.0	FT
PP	Playback Processing	OFF	
TD	Total Depth	12898	FT

Format: MAST_TKO_SFA_LQC_Stoneley 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

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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

MAST Parameters

[MAST_PARAM_049.PDS 22-Jan-2011 08:11]

Product Class:
Standard

Environment Information

FORM_TYPE	Intermediate
VSLO_COMP	No
MUDT	Oil Based Mud
DTF	221.600 US/F
BH_STAT	Open Hole
BDIAM	6.000 IN
CSIZ	7.000 IN
BS	6.000 IN
DLHS	AUTO
CWEI	32.000 LB/F
DFD	13.500 LB/G
ZCMT	6.800 MRAY
VDL_MODE	-

Data Channel Identification

MEASURE_NUMBER	#01	#02	#03	#04	#05	#06
DATAID_WFA	WMUM	WMLM	WMFM	WMFL	W90C	W00C
DATAID_WFA_MONO	WMUM_M	WMLM_M	WMFM_M	WMFL_M	W90C_M	W00C_M
DATAID_WFA_DIN	-	-	-	-	W90C_000	W00C_000
DATAID_WFA_DIOF	-	-	-	-	W90C_090	W00C_090
MEASURE_NAME	Monopole Upper	Monopole Lower	Monopole Far	Stoneley	X Dipole	Y Dipole

Measurement

MEASURE_TYPE	Monopole Near	Monopole Near	Monopole Far	Stoneley	Dipole	Dipole
TXSEL	MU	ML	MF	MF	XD	YD
WFSEL	mp_mf_d	mp_mf_d	mp_mf_d	mp_lf_d	dp_cd_d	dp_cd_d
TXWFTYPE	No Deconv	No Deconv	No Deconv	No Deconv	No Deconv	No Deconv
TXCONV	3 us	3 us	3 us	3 us	20 us	20 us
TX_WF_FREQ	Medium	Medium	Medium	Low	Chirp	Chirp
TX_WF_CATEG	Normal	Normal	Normal	Normal	Chirp Down	Chirp Down
TX_AMP	75 %	75 %	100 %	100 %	100 %	100 %
SAMINT	10 us	10 us	10 us	40 us	40 us	40 us
DIGTIME	2550.0 US	2550.0 US	5110.0 US	20440.0 US	30480.0 US	30480.0 US
DIGDEL	0.0 US	0.0 US	0.0 US	0.0 US	0.0 US	0.0 US
DIGDT	0.0 US/F	0.0 US/F	0.0 US/F	0.0 US/F	0.0 US/F	0.0 US/F
GNINT	2550.0 US	2550.0 US	5110.0 US	20440.0 US	30480.0 US	30480.0 US
ELTSEL	-	-	-	-	-	-
NWF	52	52	52	52	104	104
GAINSEL	-	-	-	-	-	-
COMPCTL	MZIP A	MZIP A	MZIP A	MZIP D	MZIP D	MZIP D
AUX_ACQ	All	All	All	All	All	All
MODALCTL	Downhole	Surface	Surface	Downhole	Downhole	Downhole
MODALENE	Allow	Disallow	Disallow	Allow	Allow	Allow
AUTOFREQ	Disallow	Disallow	Disallow	Disallow	Disallow	Disallow
SCORCTL	Allow	Allow	Allow	Allow	Allow	Allow

Measurement:DWFn_SPEC

DWF1_SPEC	WFA1/7/1
DWF1_MONO_SPEC	WFA1_MONO/7/0
DWF2_SPEC	WFA2/7/1
DWF2_MONO_SPEC	WFA2_MONO/7/0
DWF3_SPEC	WFA3/7/1
DWF3_MONO_SPEC	WFA3_MONO/7/0
DWF4_SPEC	WFA4/7/1
DWF4_MONO_SPEC	WFA4_MONO/7/0
DWF5_SPEC	WFA5/7/1
DWF5_DIIN_SPEC	WFA5_DIIN/7/0
DWF6_SPEC	WFA6/7/1

DWF6_DIIN_SPEC	WFA6_DIIN/7/0					
DWF7_SPEC	-					
DWF8_SPEC	-					
Arrival Time Detection (ATD)						
NMSGA	-	-	-	-	-	-
NMXGA	-	-	-	-	-	-
SGDTA	-	-	-	-	-	-
SGCLA	-	-	-	-	-	-
FMDTTSELA	First Break	First Break	First Break	-	-	-
DSTC and Tracking						
STCIN	Monopole	Monopole	Monopole	Monopole	Dipole Inline	Dipole Inline
TLLA	200 US	200 US	550 US	2440 US	920 US	1000 US
TULA	2440 US	2440 US	5110 US	15840 US	17360 US	18200 US
SLLA	40 US/F	40 US/F	40 US/F	180 US/F	80 US/F	80 US/F
SULA	280 US/F	280 US/F	280 US/F	680 US/F	540 US/F	540 US/F
TWIA	300 US	300 US	300 US	1880 US	1480 US	1480 US
TSTA	100 US	100 US	100 US	440 US	360 US	360 US
SSTA	2 US/F	2 US/F	2 US/F	4 US/F	4 US/F	4 US/F
SBWA	1440 US	1440 US	2840 US	9280 US	11400 US	12000 US
SBOA	320 US	320 US	320 US	1880 US	5480 US	5480 US
TWIDA	1080 US	1080 US	2130 US	6960 US	8550 US	9000 US
SWIDA	20 US/F	20 US/F	20 US/F	60 US/F	60 US/F	60 US/F
XFLA	5000.0 HZ	5000.0 HZ	5000.0 HZ	1000.0 HZ	1000.0 HZ	1000.0 HZ
XFHA	16000.0 HZ	16000.0 HZ	16000.0 HZ	2000.0 HZ	3000.0 HZ	3000.0 HZ
FIL_LENGA	49	49	49	91	47	47
SEMTHRA	0.3	0.3	0.3	0.3	0.3	0.3
VPVSA	2.0	2.0	2.0	2.0	2.0	2.0
TRACKMD	PS	PS	PS	Stoneley	Dipole	Dipole
STCAL	Full Array	Full Array	Full Array	Full Array	Full Array	Full Array
NRSA	5	5	5	5	5	5
DTCO_SELECT	MF	MF	MF	MF	MF	MF
DTSH_SELECT	XD	XD	XD	XD	XD	XD
TKOCTL	Disallow	Disallow	Allow	Allow	Allow	Allow
TKO_DECIM	12 inch					
TKOMCCTL	-	-	-	Disallow	Disallow	Disallow
MC_RHO	2.0 G/C3					
MC_RHO_OPT	RHOB					
STCTRCTL	BOTH					
Common Parameters						
AZIM_SELECT	P1AZ					
AZIM_PROC_SWITCH	ON					

MAST Parameter Descriptions

Environment Information	
LISNAME	Description
FORM_TYPE	Formation Type
VSLO_COMP	Very Slow Compressional
MUDT	Mud Type
DTF	Delta-T Fluid
BH_STAT	Borehole Status
BDIAM	Borehole Diameter
CSIZ	Current Casing Size
BS	Bit Size
DLHS	Hole Diameter Source for SOBS Channel
CWEI	Casing Weight
DFD	Drilling Fluid Density
ZCMT	Acoustic Impedance of Cement
VDL_MODE	DCBL/VDL Mode for Cement Evaluation
Data Channel Identification	
DATAID_WFA	MSIP-L Waveform Data ID in Horizon Naming Convention for WFAn
DATAID_WFA_MONO	MSIP-L Waveform Data ID in Horizon Naming Convention for WFAn_MONO
DATAID_WFA_DIN	MSIP-L Waveform Data ID in Horizon Naming Convention for WFAn_DIN
DATAID_WFA_DIOF	MSIP-L Waveform Data ID in Horizon Naming Convention for WFAn_DIOF
MEASURE_NAME	Measurement Names
Measurement	
MEASURE_TYPE	Measurement Types

MEASURE_TYPE	Measurement Types
TXSEL	Transmitter Drive Selection
WFSEL	Transmitter Drive Waveform Selection
TXWFTYPE	Transmitter Drive Waveform Type
TXCONV	Transmitter Drive Conversion Rate
TX_WF_FREQ	Transmitter Drive Waveform Frequency
TX_WF_CATEG	Transmitter Drive Waveform Category
TX_AMP	Transmitter Amplitude Factor
SAMINT	Waveform Sampling Interval
DIGTIME	Waveform Digitizing Time
DIGDEL	Waveform Digitizing Delay
DIGDT	Waveform Digitizing Delta-T
GNINT	Waveform Gain Interval
ELTSEL	Receiver Sensor Element Selection
NWF	Number of Waveforms
GAINSEL	Sensor Gain Selection
COMPCTL	Data Compression Control
AUX_ACQ	Aux Acquisition Mode
MODALCTL	Modal Computation Control
MODALENE	Downhole Modal Energy Computation Option
AUTOFREQ	Automatic Frequency Selection
SCORCTL	Sensor Correction Control

Measurement:DWFn_SPEC

DWF1_SPEC	Channel/Station/Azimuth for VDL (DWF1) of Measurement 1
DWF1_MONO_SPEC	Display Waveform 1 Monopole Input Channel Specification
DWF2_SPEC	Channel/Station/Azimuth for VDL (DWF2) of Measurement 2
DWF2_MONO_SPEC	Display Waveform 2 Monopole Input Channel Specification
DWF3_SPEC	Channel/Station/Azimuth for VDL (DWF3) of Measurement 3
DWF3_MONO_SPEC	Display Waveform 3 Monopole Input Channel Specification
DWF4_SPEC	Channel/Station/Azimuth for VDL (DWF4) of Measurement 4
DWF4_MONO_SPEC	Display Waveform 4 Monopole Input Channel Specification
DWF5_SPEC	Channel/Station/Azimuth for VDL (DWF5) of Measurement 5
DWF5_DIIN_SPEC	Display Waveform 5 Dipole Inline Channel Specification
DWF6_SPEC	Channel/Station/Azimuth for VDL (DWF6) of Measurement 6
DWF6_DIIN_SPEC	Display Waveform 6 Dipole Inline Input Channel Specification
DWF7_SPEC	Channel/Station/Azimuth for VDL (DWF7) of Measurement 7
DWF8_SPEC	Channel/Station/Azimuth for VDL (DWF8) of Measurement 8

Arrival Time Detection (ATD)

NMSGA	Near Minimum Sliding Gate Array
NMXGA	Near Maximum Sliding Gate Array
SGDTA	Sliding Gate Delta-T Array
SGCLA	Sliding Gate Closing Delta-T Array
FMDTTSELA	First Motion Detection Transit Time Selection

DSTC and Tracking

STCIN	STC Input Channel Name
TLLA	Time Lower Limit
TULA	Time Upper Limit
SLLA	Slowness Lower Limit
SULA	Slowness Upper Limit
TWIA	Integration Time Window
TSTA	Time Step
SSTA	Slowness Step
SBWA	Search Band Width
SBOA	Search Band Offset
TWIDA	Peak Mask Time Width
SWIDA	Peak Mask Slowness Width
XFLA	Filter Low Cutoff
XFHA	Filter High Cutoff
FIL_LENGA	Filter Length Array
SEMTHRA	STC Semblance Threshold
VPVSA	Sonic Vp / Vs Ratio
TRACKMD	MAST Tracking Mode
STCAL	STC Algorithm
NRSA	Number of Receivers in Sub-Array
DTCO_SELECT	Delta-T Compressional Selection for Finalization
DTSH_SELECT	Delta-T Shear Selection for Finalization
TKOCTL	TKO Computation Control (ACQ)
TKO_DECIM	TKO Decimation Depth Interval
TKOMCCTL	TKO Homogeneous Isotropic Model Curve Computation Control

MC_RHO	Homogeneous Isotropic Model Curve Model Formation Bulk Density
MC_RHO_OPT	Homogeneous Isotropic Model Curve Model Formation Bulk Density Option
STCTRCTL	STC and Tracking Control

Common Parameters

AZIM_SELECT	Azimuth Reference Selection
AZIM_PROC_SWITCH	MAST Azimuth Process Switch

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	1.200 (Minimum) / 3.500 (Nominal) / 5.600 (Maximum)	4.670	Before	6.100 (Minimum) / 8.000 (Nominal) / 9.700 (Maximum)	9.212
Phase	PPC1 Radius 2 Raw Small Radius IN	Value	Phase	PPC1 Radius 2 Raw Large Radius IN	Value
Before	1.200 (Minimum) / 3.500 (Nominal) / 5.600 (Maximum)	3.322	Before	6.100 (Minimum) / 8.000 (Nominal) / 9.700 (Maximum)	7.874
Phase	PPC1 Radius 3 Raw Small Radius IN	Value	Phase	PPC1 Radius 3 Raw Large Radius IN	Value
Before	1.200 (Minimum) / 3.500 (Nominal) / 5.600 (Maximum)	4.481	Before	6.100 (Minimum) / 8.000 (Nominal) / 9.700 (Maximum)	8.970
Phase	PPC1 Radius 4 Raw Small Radius IN	Value	Phase	PPC1 Radius 4 Raw Large Radius IN	Value
Before	1.200 (Minimum) / 3.500 (Nominal) / 5.600 (Maximum)	3.374	Before	6.100 (Minimum) / 8.000 (Nominal) / 9.700 (Maximum)	7.927

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	0.5000 (Minimum) / 1.000 (Nominal) / 1.700 (Maximum)	0.9272	Master	0.5000 (Minimum) / 1.000 (Nominal) / 1.700 (Maximum)	1.074

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	0.9000 (Minimum) / 1.000 (Nominal) / 1.700 (Maximum)	0.9406	Master	0.9000 (Minimum) / 1.000 (Nominal) / 1.700 (Maximum)	1.097

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	-2.000 (Minimum) / 0 (Nominal) / 2.000 (Maximum)	-0.8820	Master	-2.000 (Minimum) / 0 (Nominal) / 2.000 (Maximum)	1.133

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	1.200 (Minimum) / 3.500 (Nominal) / 5.600 (Maximum)	4.000	Before	6.100 (Minimum) / 8.000 (Nominal) / 9.700 (Maximum)	8.319
Phase	PPC2 Radius 2 Raw Small Radius IN	Value	Phase	PPC2 Radius 2 Raw Large Radius IN	Value
Before	1.200 (Minimum) / 3.500 (Nominal) / 5.600 (Maximum)	3.510	Before	6.100 (Minimum) / 8.000 (Nominal) / 9.700 (Maximum)	8.095
Phase	PPC2 Radius 3 Raw Small Radius IN	Value	Phase	PPC2 Radius 3 Raw Large Radius IN	Value
Before	1.200 (Minimum) / 3.500 (Nominal) / 5.600 (Maximum)	4.250	Before	6.100 (Minimum) / 8.000 (Nominal) / 9.700 (Maximum)	8.674
Phase	PPC2 Radius 4 Raw Small Radius IN	Value	Phase	PPC2 Radius 4 Raw Large Radius IN	Value
Before	1.200 (Minimum) / 3.500 (Nominal) / 5.600 (Maximum)	3.674	Before	6.100 (Minimum) / 8.000 (Nominal) / 9.700 (Maximum)	8.070

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	31.53 (Minimum) / 32.19 (Nominal) / 32.84 (Maximum)	32.07

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	0 (Minimum) / 30.00 (Nominal) / 120.0 (Maximum)	52.32	Before	138.6 (Minimum) / 152.5 (Nominal) / 166.3 (Maximum)	152.5	Before	150.0 (Minimum) / 165.0 (Nominal) / 180.0 (Maximum)	165.0

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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