

Schlumberger

GEOFRAME
PROCESSED
INTERPRETATION

BestDT* sonicVision Processing

2690m - 2980m (1/200)

*A Mark of Schlumberger

Using the following logs: sonicVision

COMPANY: ESSO Australia Pty. Ltd.
WELL: HLA A5B
FIELD: Halibut
RIG: ISDL 453
STATE: Victoria
COUNTRY: Australia
Date Logged: 09-May-07
Date Processed: 09-May-07

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

Field Recording:	Location:	Software Version: 12C0-302	Engineer: Borjas/Pattarakorn
Office Recording:	ICS Center:	Baseline: GF 4.3 DC2	Log Analyst: A. Datey

Mud and Borehole Measurements:			
Rm @ Measured Temperature: 0.1089ohm.m@ 22degC		Bitsize: 8.5in	
Rmf @ Measured Temperature:0.0878ohm.m@ 21.5degC		Type Fluid in Hole:	KCI/PHPA/Glycol
Rmc @ Measured Temperature0.219ohm.m @ 22.2degC		Mud Density: 1.1743g/cm3	

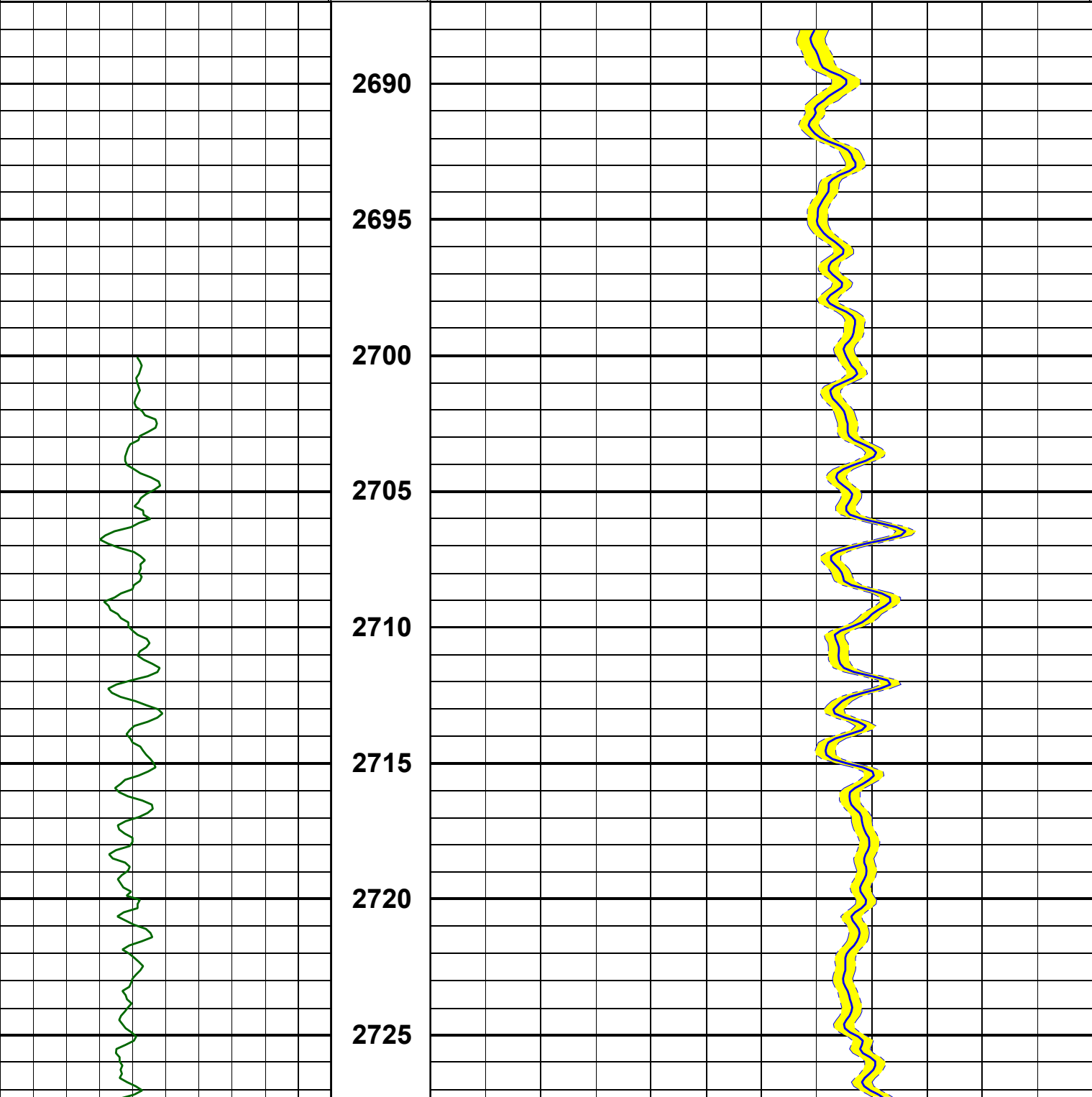
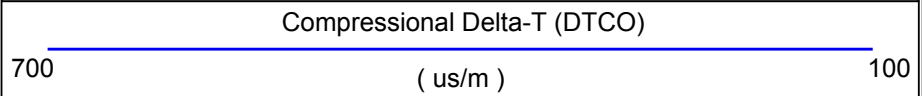
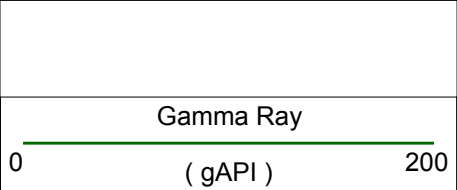
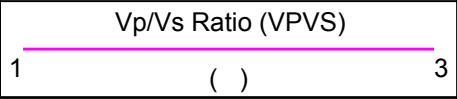
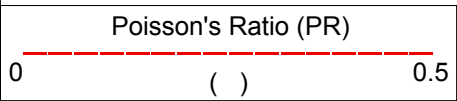
Remarks:

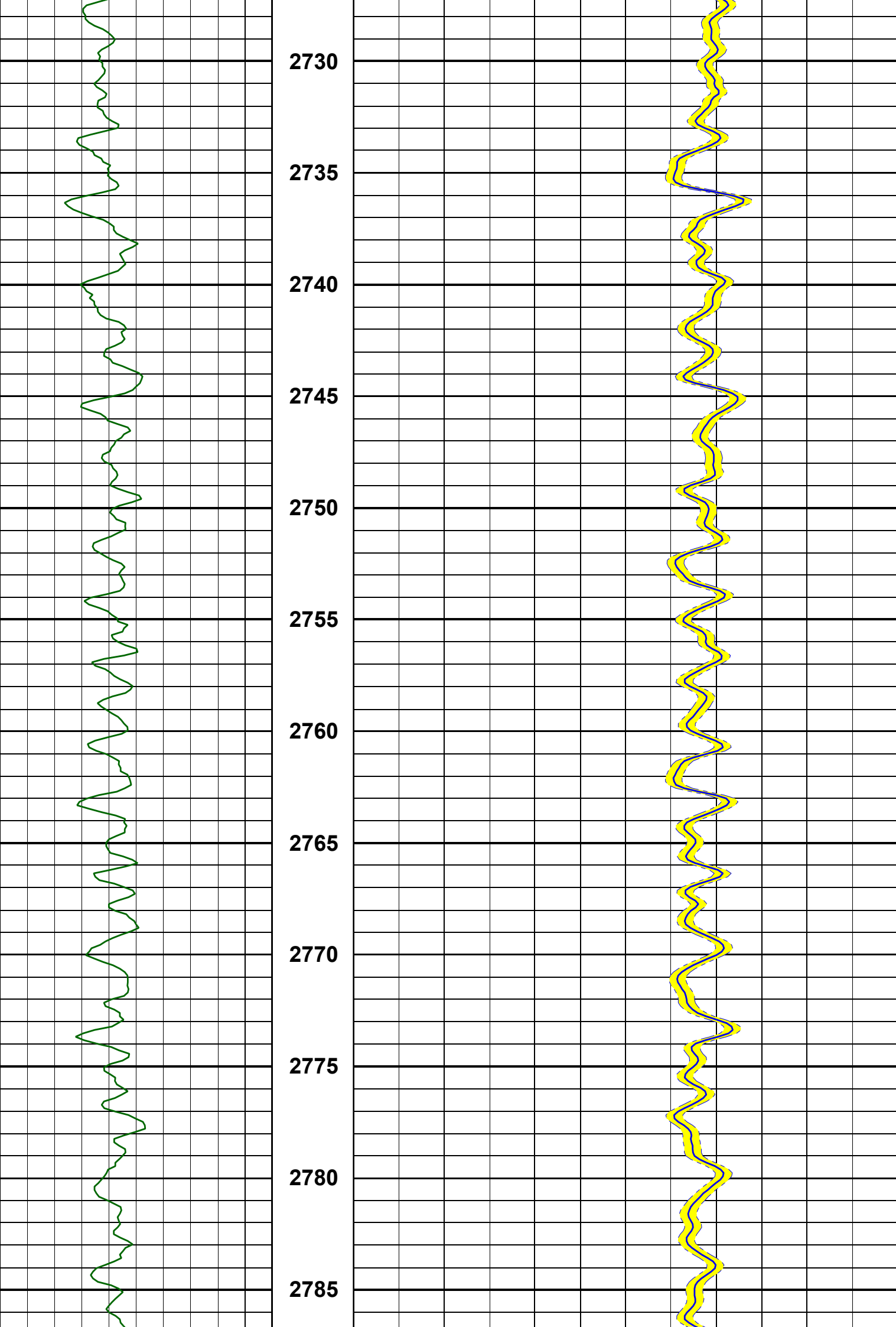
DT Compressional processed using 10KHz-16KHz filter and a 720 level median residual filter.

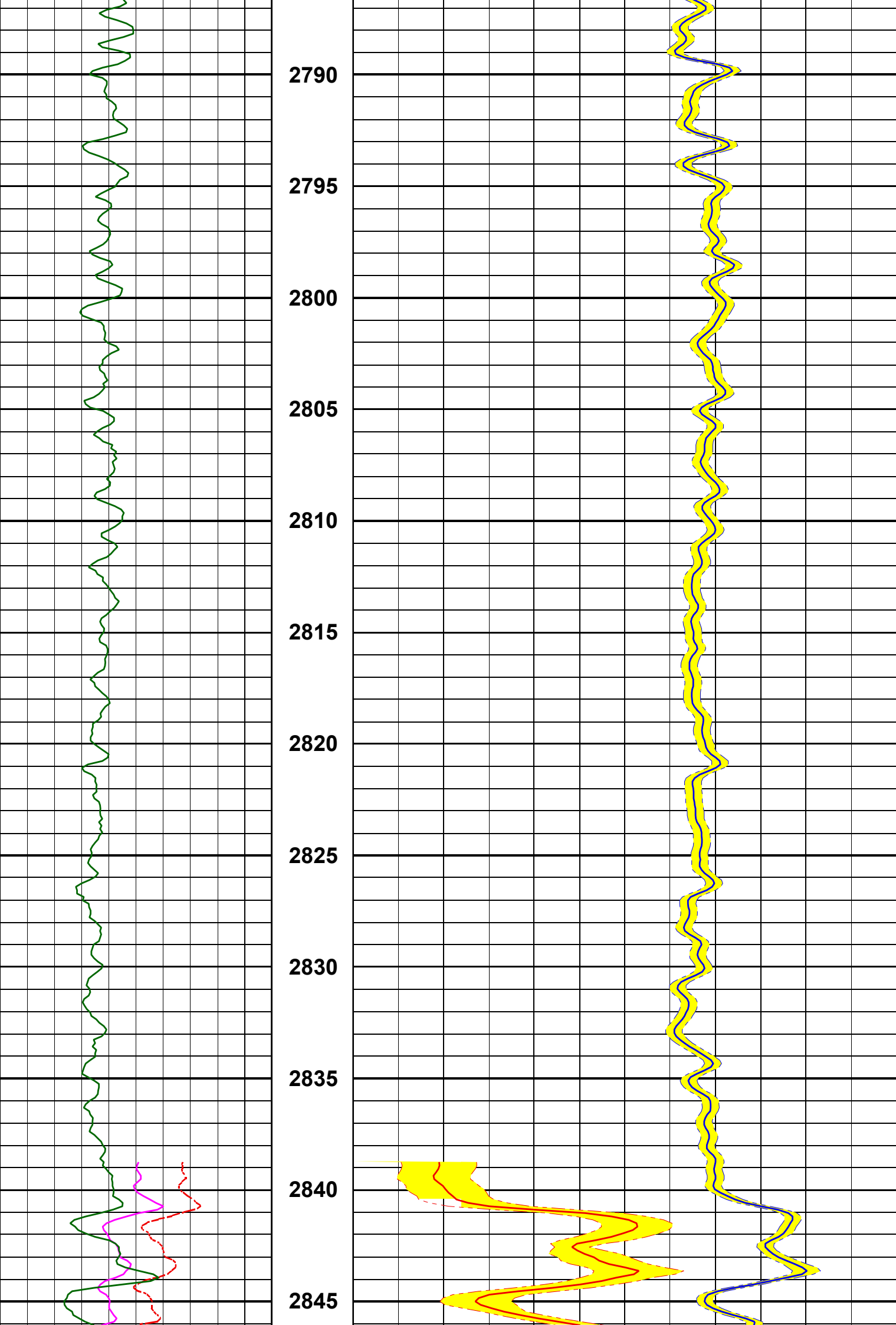
DT Shear processed using 5KHz-11KHz filter.

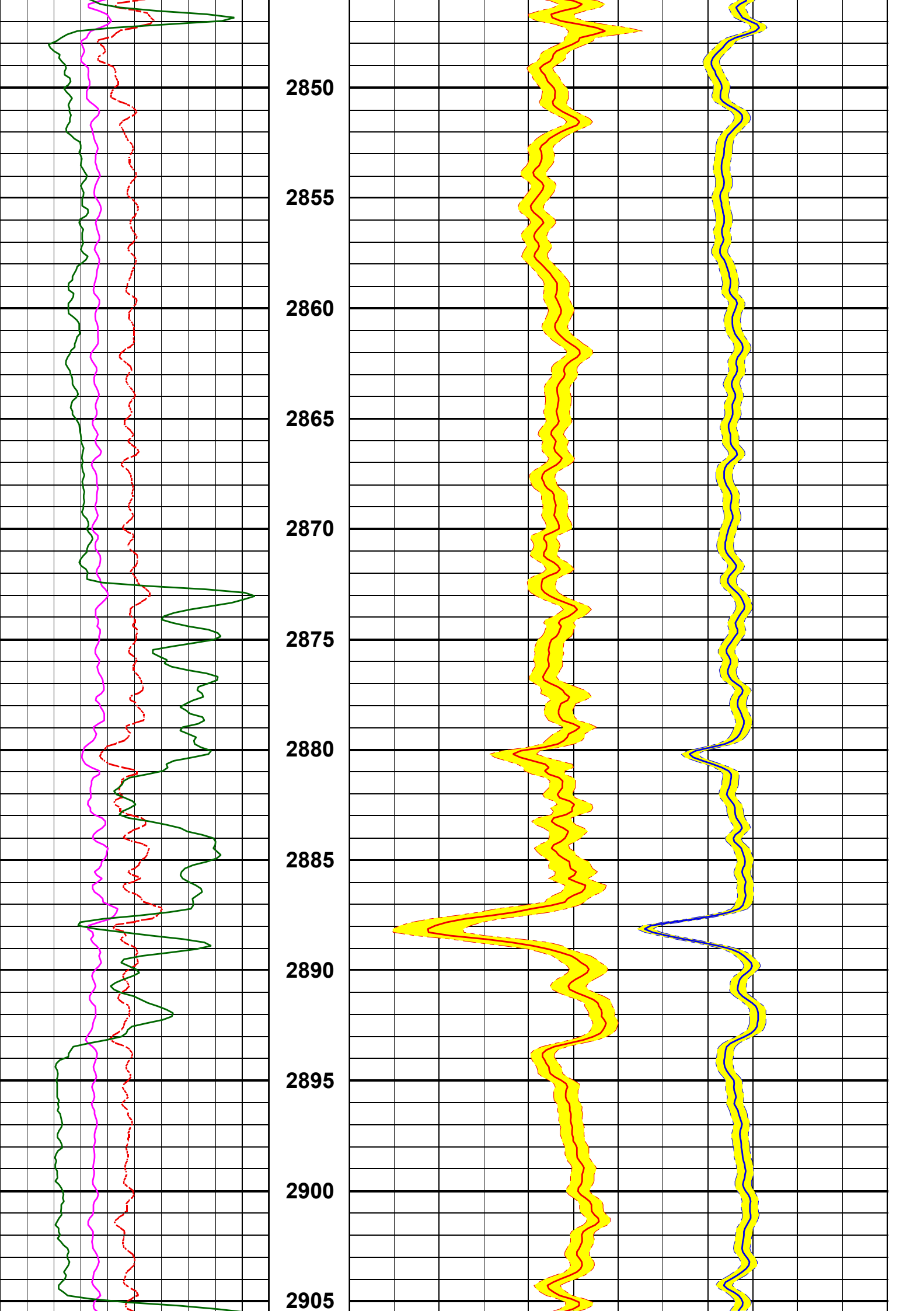
See bottom of the QC Log for more parameters.

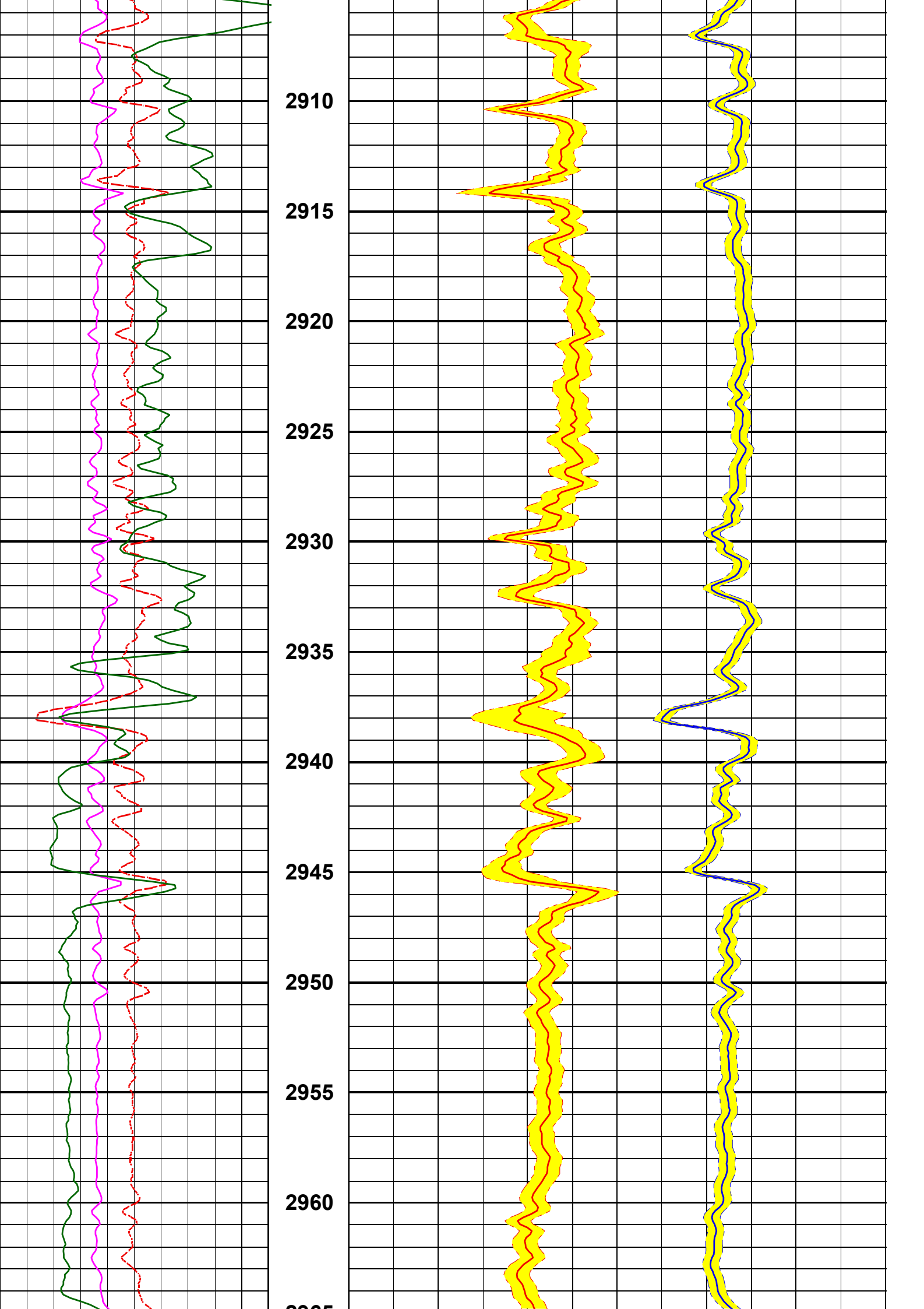
Processing Results

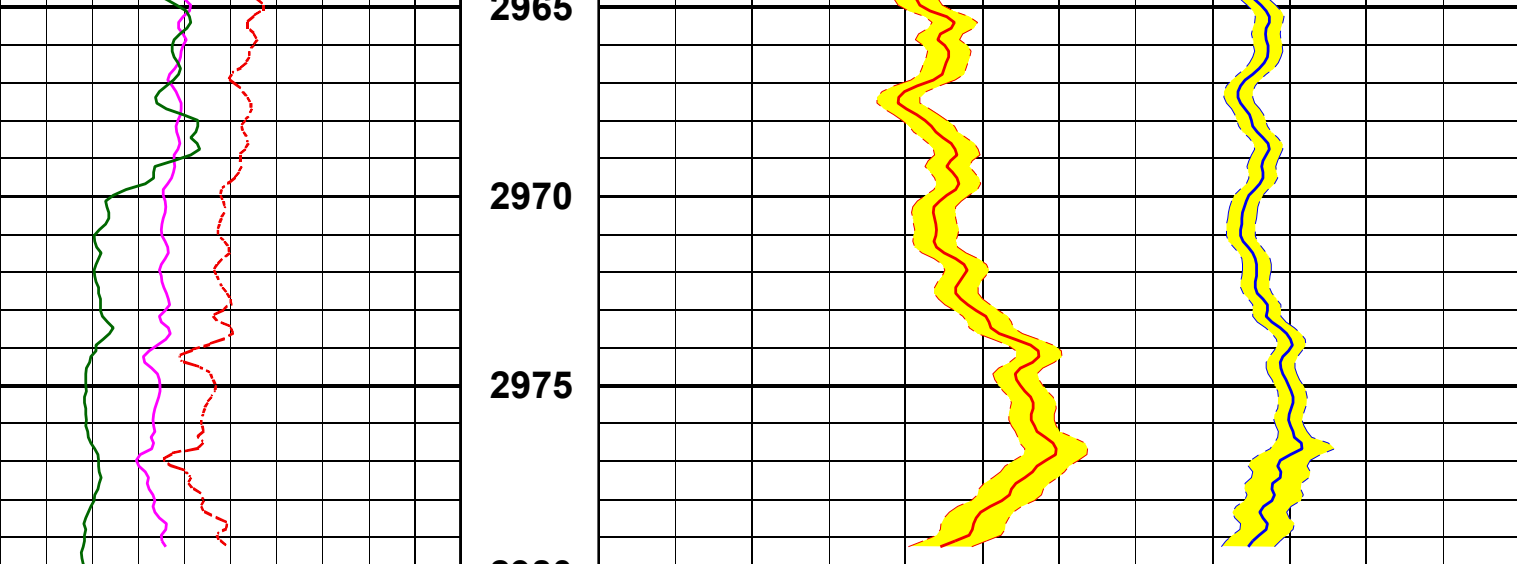






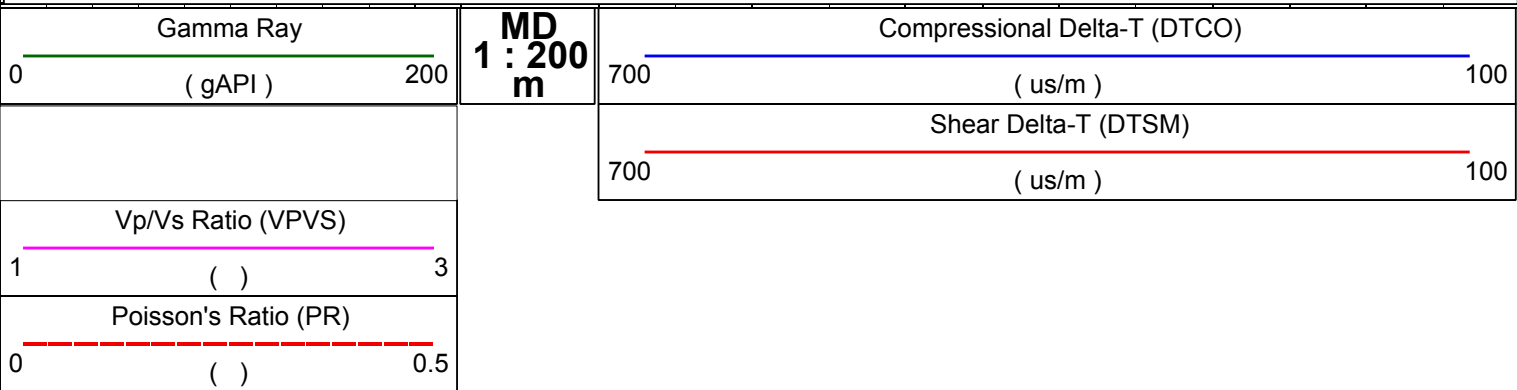






--- Finalization Result ---

1 MPS Compressional	Receiver	Absent levels=	19
1 MPS Compressional	Transmitter	Absent levels=	14
2 MPS Compressional	Receiver	Absent levels=	1912
2 MPS Compressional	Transmitter	Absent levels=	1908
1 MPS Shear	Receiver	Absent levels=	1911
1 MPS Shear	Transmitter	Absent levels=	1908
2 MPS Shear	Receiver	Absent levels=	1009
2 MPS Shear	Transmitter	Absent levels=	1097
1 MPS Compressional	DDBHC	Absent levels=	19 *Selected*
2 MPS Compressional	DDBHC	Absent levels=	1931
1 MPS Shear	DDBHC	Absent levels=	1931
2 MPS Shear	DDBHC	Absent levels=	1009 *Selected*



Compressional Processing QC

SpcRC
0 (Hz) 40000

SpcRS

STPrjR

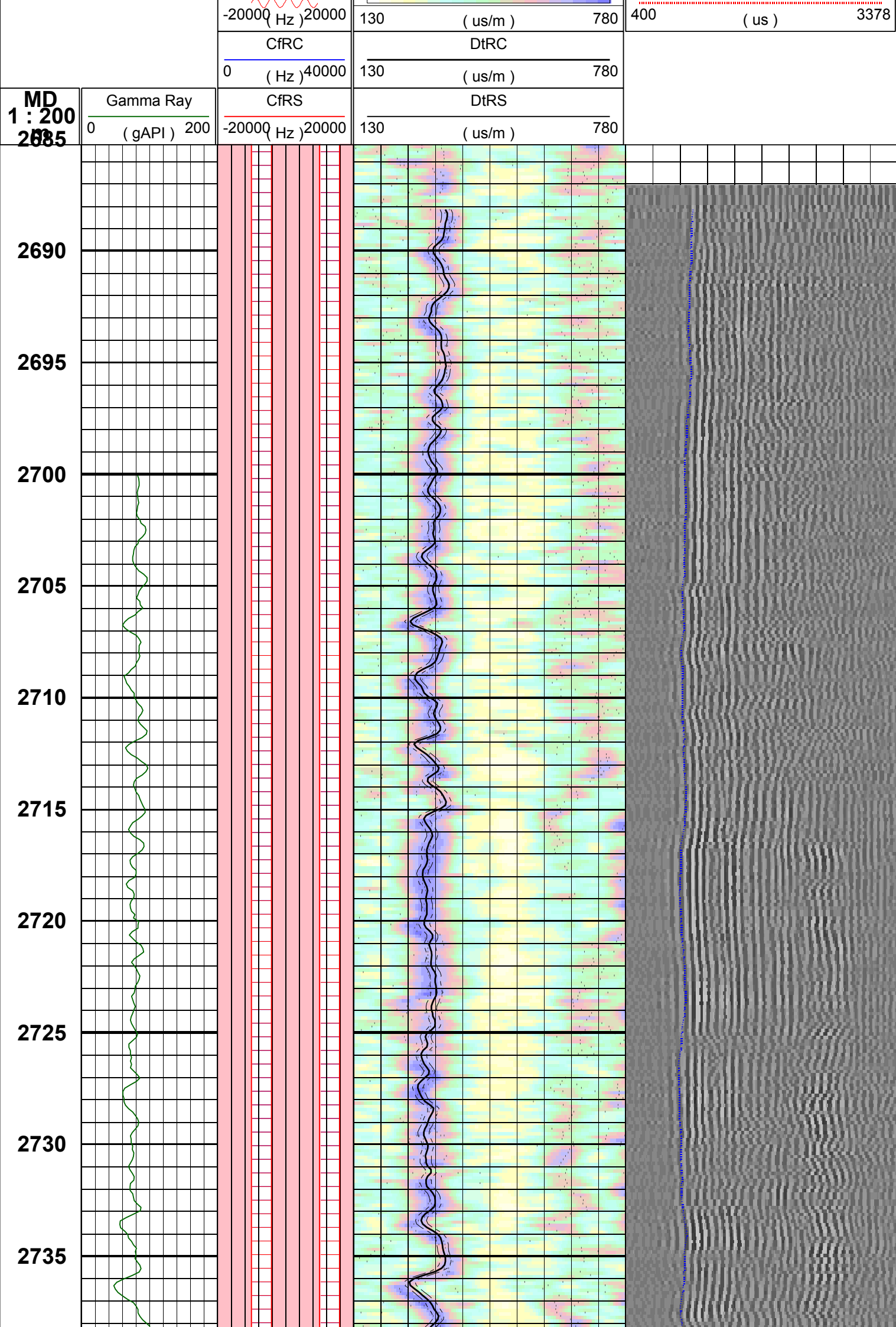
WF VDL

400 (us) 3378

TICS

400 (us) 3378

TISS



2740

2745

2750

2755

2760

2765

2770

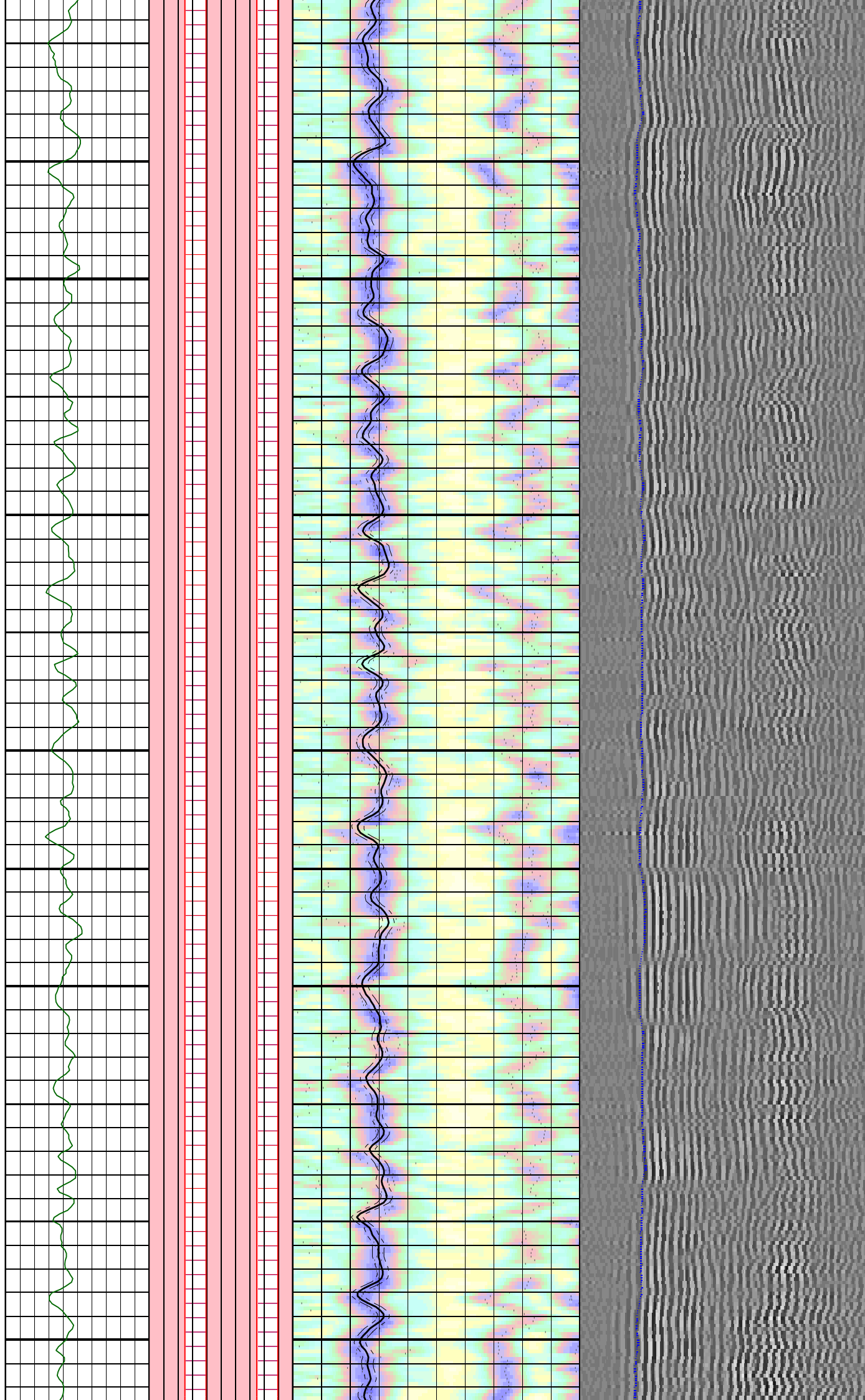
2775

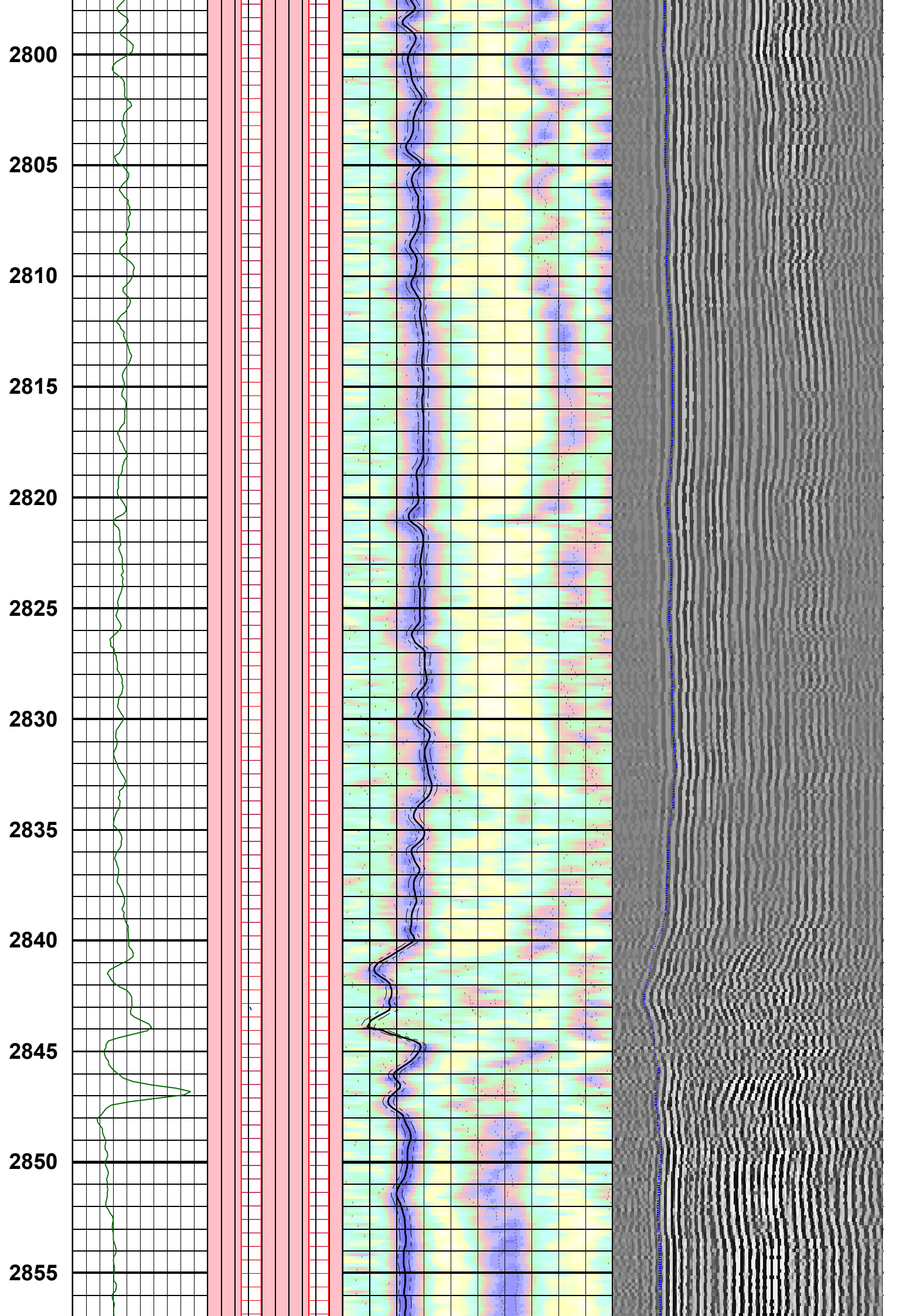
2780

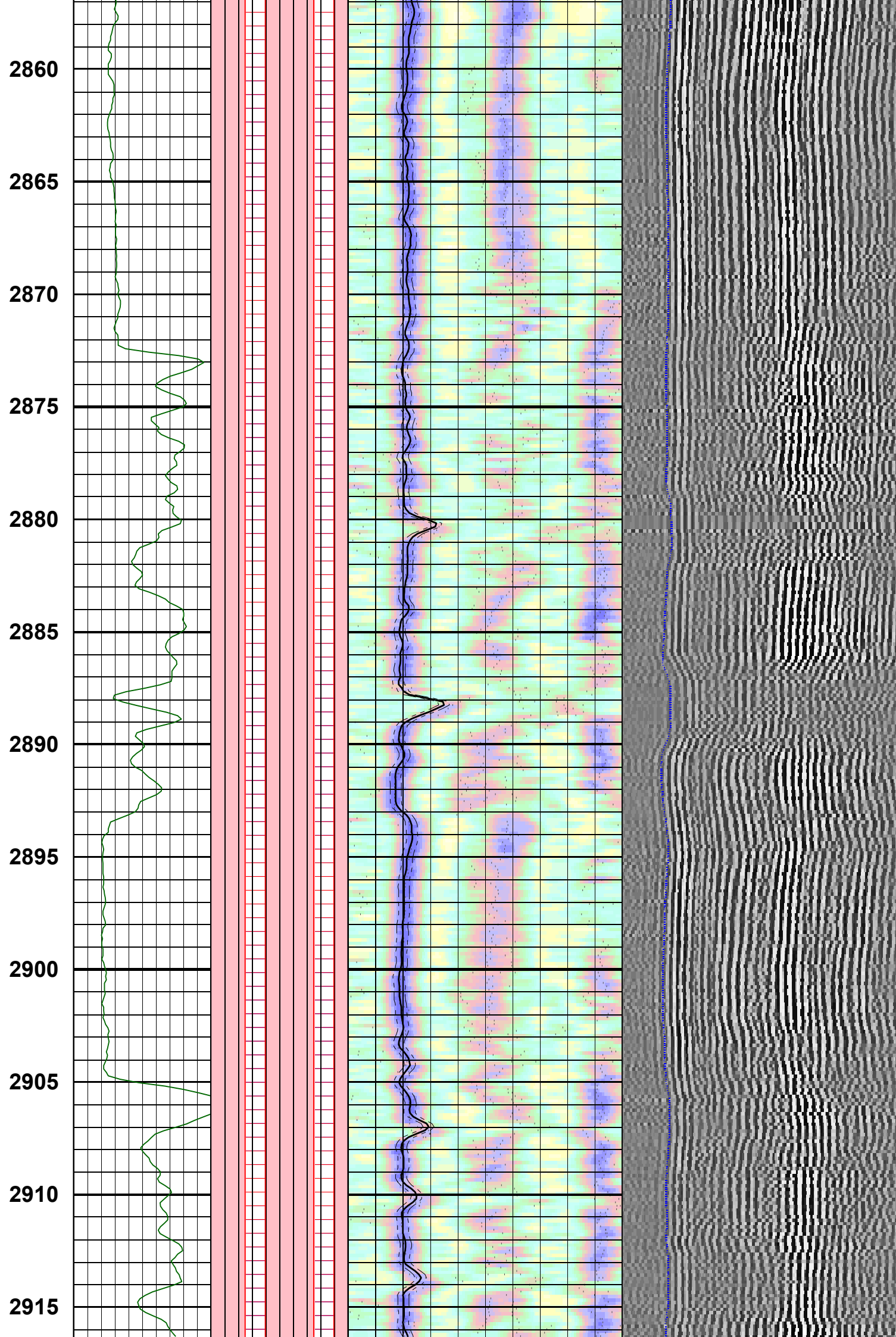
2785

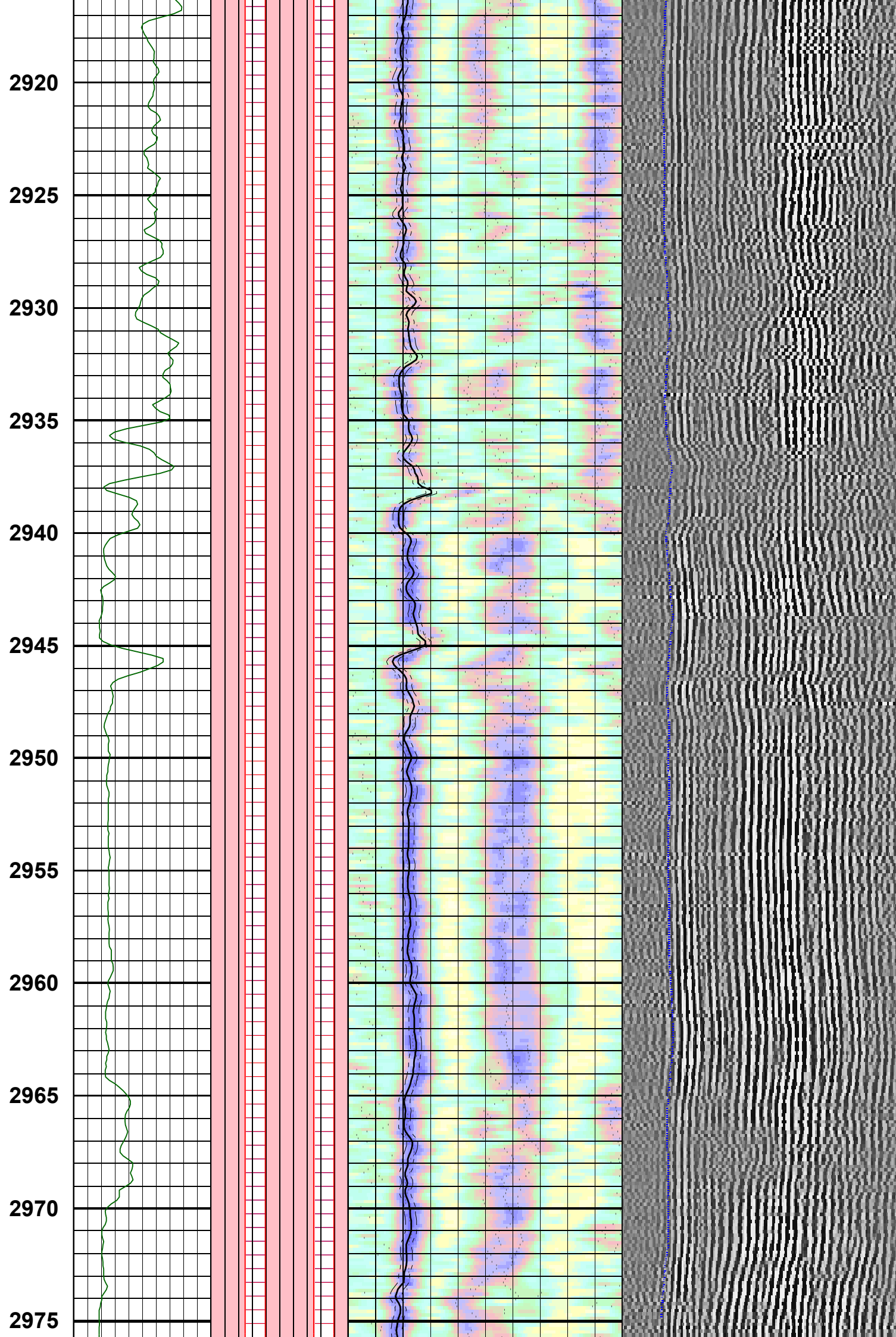
2790

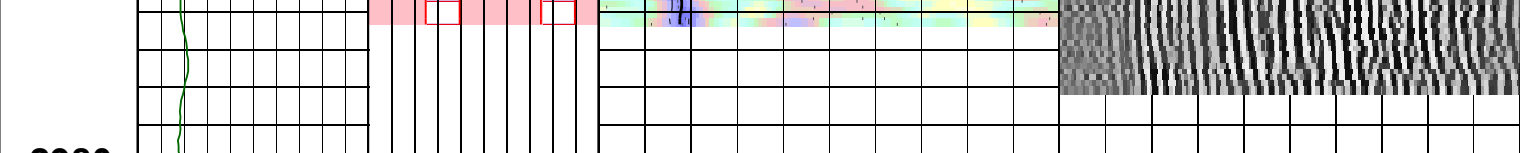
2795





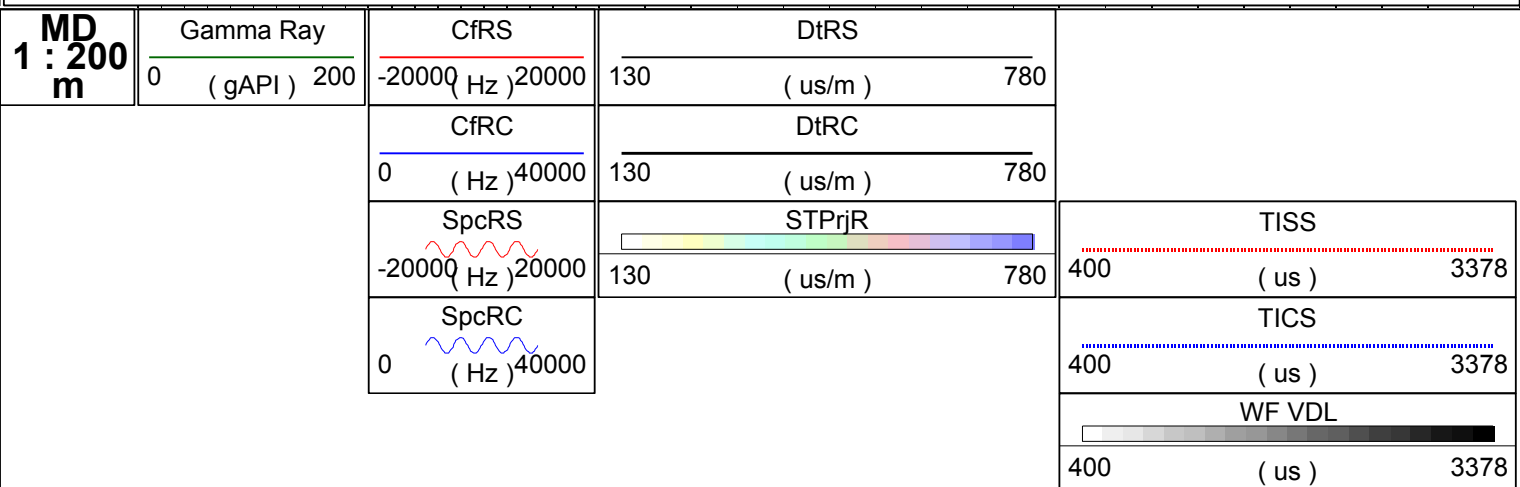




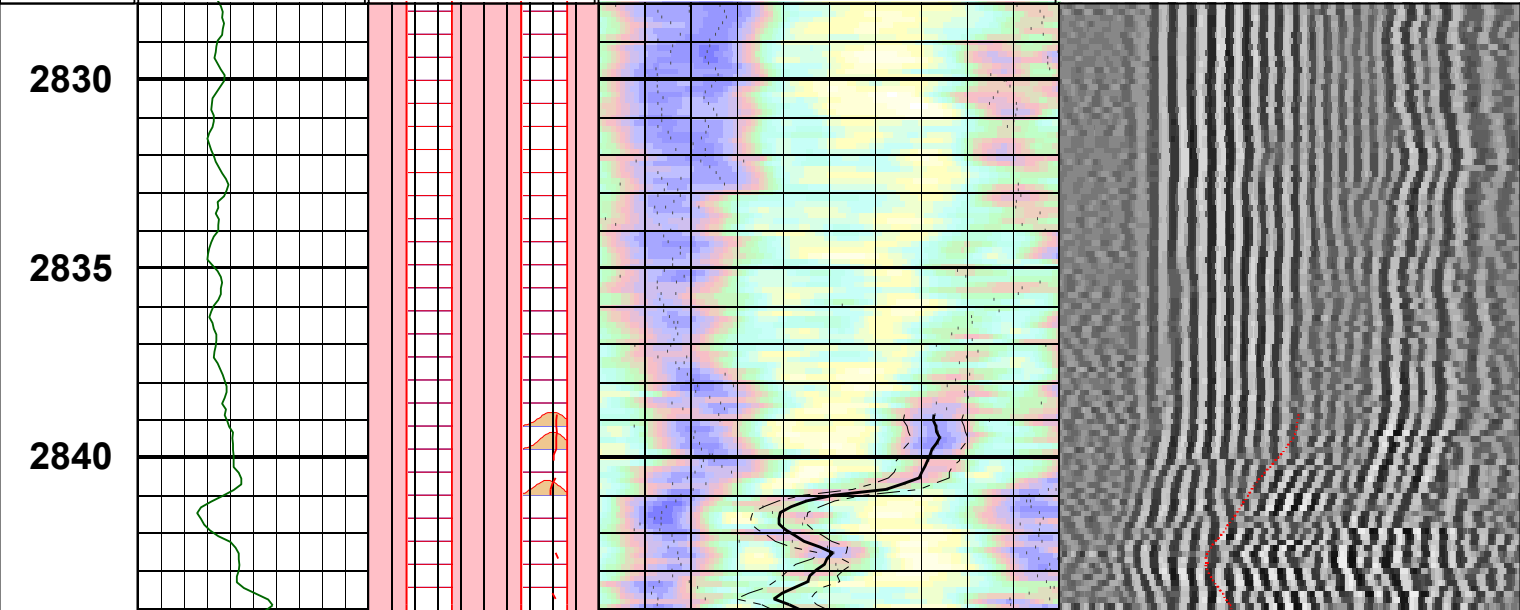
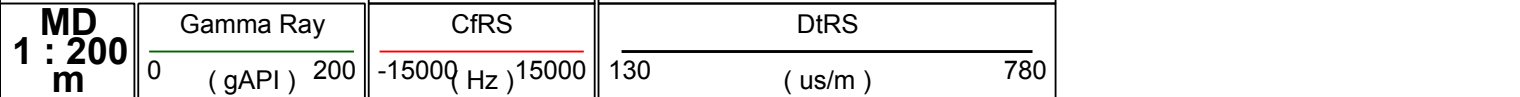
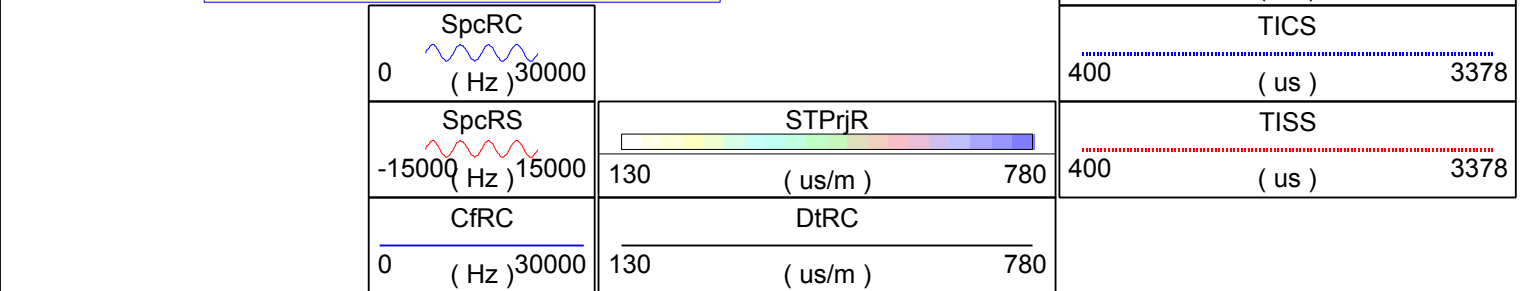


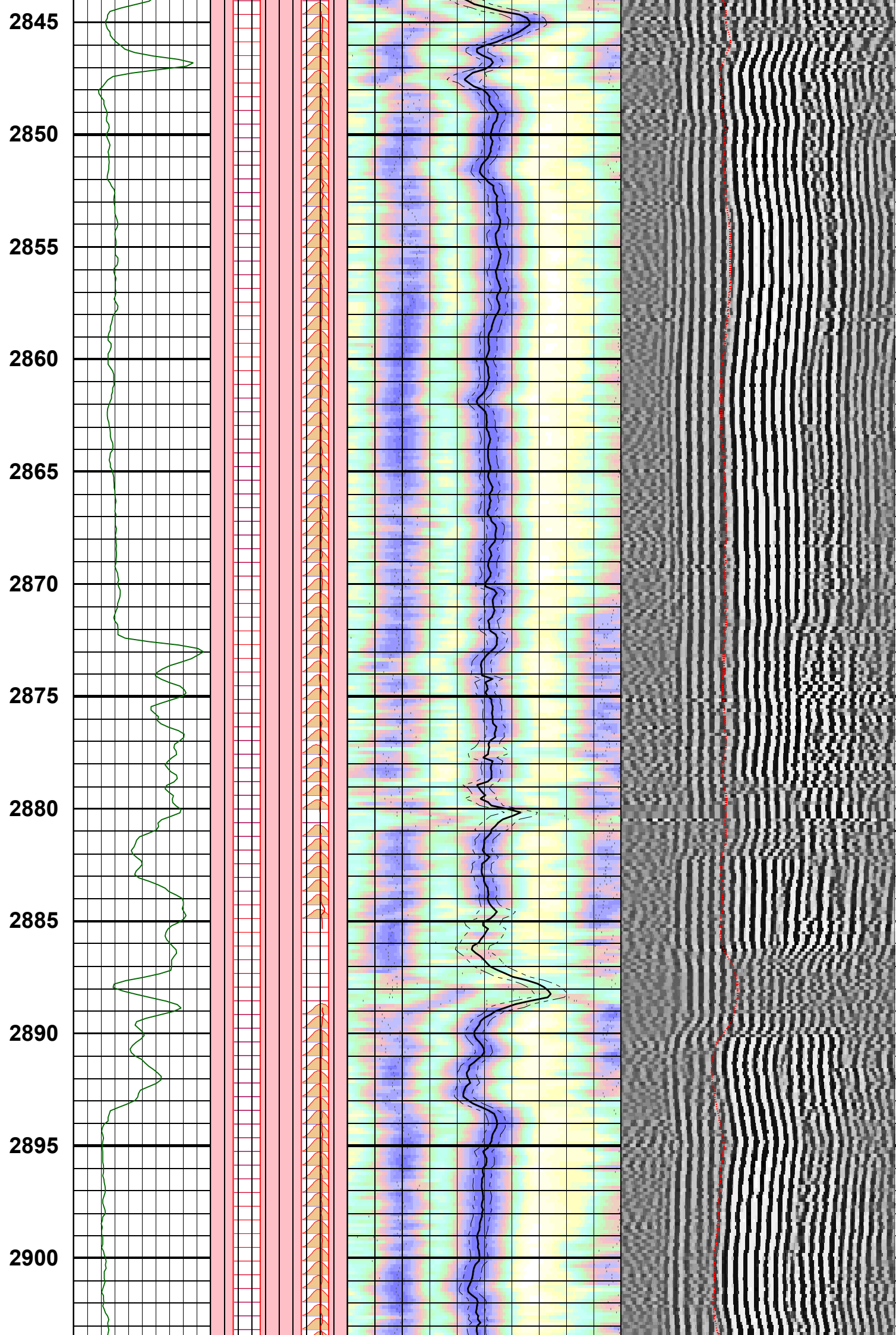
Customized Process: Start Depth (2979.34 m), Stop Depth (2685.26 m), Logging Mode (ISONIC - MPS_WIDE)
Noise Cut Filtering(Yes - Median Residual, WS 720), Casing Cut Filtering(No)
WF_FLG(1 1 1 1), MUD_TYPE(WBM), DTMUD(606.955), STCAL(Full Array)
TRSPAC(3.00228), RRSPAC(0 0.2032 0.4064 0.6096)
Hole Diameter (no input)
Zoning Guide (DTBC@Run_3;1 (2656.64 - 2976.37 m))
Tracking Guide (no input)

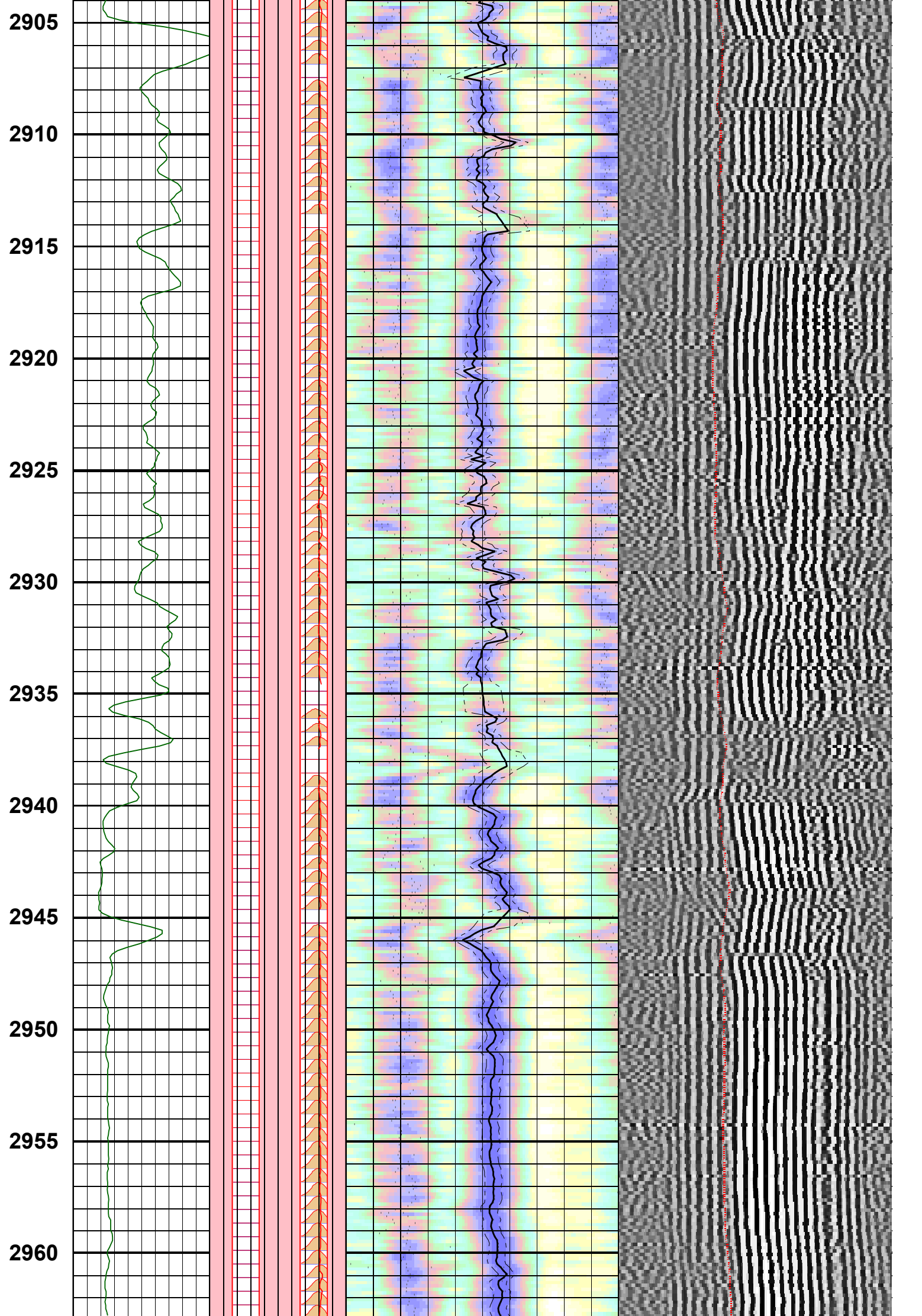
--- Zone Top Depth (0), Zone Name (Zone1) ---
SFTY(Intermediate), BHS(OPEN), CSIZ(7), HDM(Fix*), HD(8.5)
TWI(238.281), SLL(130.294), SUL(788.277), SST(6.51469), TLL(400), TUL(3219.66), TST(39.7135)
SBW(1120), SBO(160), SWD(65.6168), TWD(840), SEM(0.45), FLENG(63), FLOW(10000), FHIGH(16000)
TKO_MODEL_ORDER(2), TKO_TOL(50) TKO_FLOW(0), TKO_FHIGH(12000)

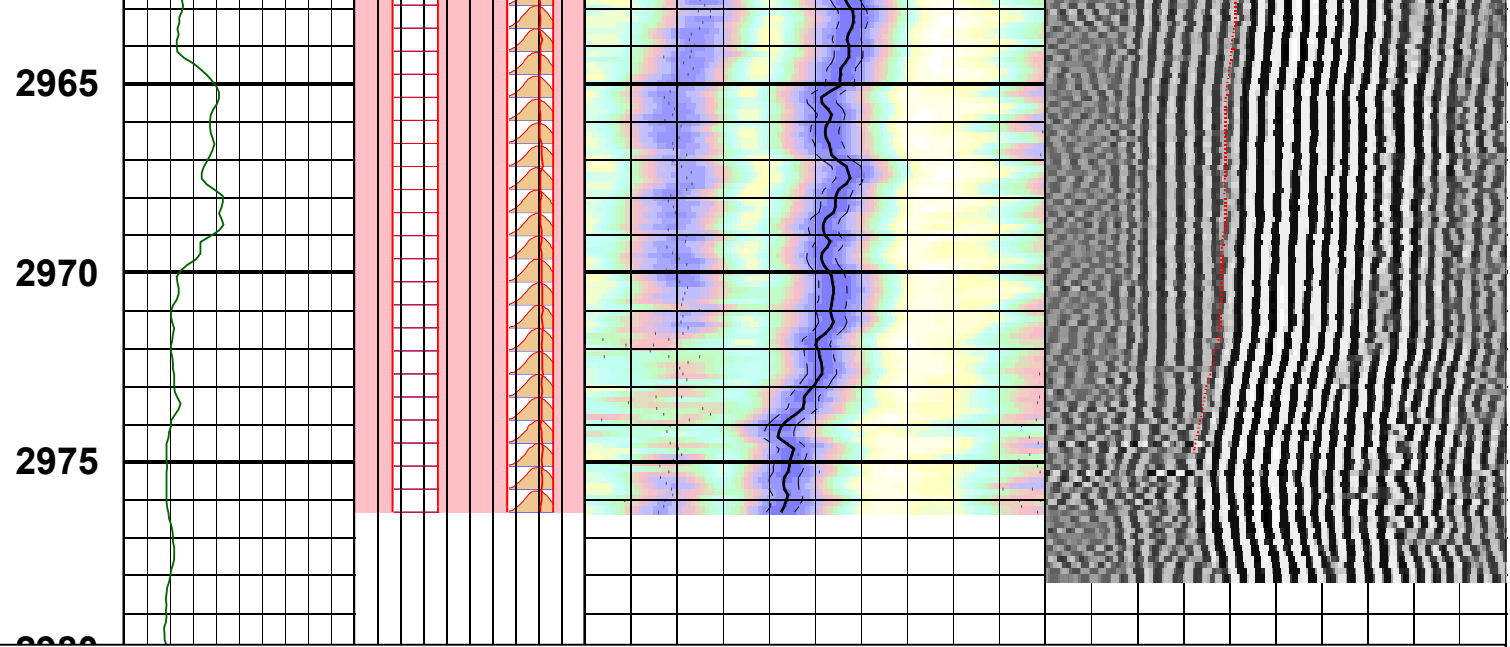


Shear Processing QC









Customized Process: Start Depth (2979.34 m), Stop Depth (2685.1 m), Logging Mode (ISONIC - MPS_WIDE)
Noise Cut Filtering(No), Casing Cut Filtering(No)
WF_FLG(1 1 1 1), MUD_TYPE(WBM), DTMUD(606.955), STCAL(Full Array)
TRSPAC(3.00228), RRSPAC(0 0.2032 0.4064 0.6096)
Hole Diameter (no input)
Zoning Guide (DTBC@Run_3;1 (2656.64 - 2976.37 m))
Tracking Guide (DTRP@BestDT-3;2 .CO .MPS_WIDE .ISONIC .Run_3 [S166226] .BDT .EDT (2976.34 - 2685.26 m))

--- Zone Top Depth (0), Zone Name (Zone1) ---
SFTY(Intermediate), BHS(OPEN), CSIZ(7), HDM(Fix*), HD(8.5)
TWI(238.281), SLL(130.294), SUL(788.277), SST(6.51469), TLL(400), TUL(3219.66), TST(39.7135)
SBW(1120), SBO(360*), SWD(65.6168), TWD(840), SEM(0.45), FLENG(47*), FLOW(5000*), FHIGH(11000*)
TKO_MODEL_ORDER(2), TKO_TOL(50) TKO_FLOW(0), TKO_FHIGH(12000)

MD 1 : 200 m	Gamma Ray	CfRS	DtRS		
	0 (gAPI) 200	-15000 (Hz) 15000	130 (us/m) 780		
		CfRC	DtRC		
		0 (Hz) 30000	130 (us/m) 780		
		SpcRS	STPrjR		
		-15000 (Hz) 15000	130 (us/m) 780	TISS	400 (us) 3378
		SpcRC		TICS	400 (us) 3378
		0 (Hz) 30000		WF VDL	400 (us) 3378

Company: ESSO Australia Pty. Ltd.

Well: HLA A5B

FIELD: Halibut

RIG: ISDL 453

STATE: Victoria

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