

Schlumberger

GEOFRAME
PROCESSED
INTERPRETATION

BestDT* sonicVision Processing

4822m - 5069m (1/200)

* A Mark of Schlumberger

Using the following logs: sonicVision

COMPANY: ESSO Australia Pty. Ltd.

WELL: FTA A30A

FIELD: Fortescue

RIG: ISDL 175

STATE: Victoria

COUNTRY: Australia

Date Logged: 26-Oct-2007 Date Processed: 31-Oct-2007

Elevations: KB: 42.5m DF: 42.5m GL: -69m

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: MYT/ML/CS
Office Recording:	ICS Center: Melbourne	Baseline: GF 4.3 DC3	Log Analyst: A. Datey
Mud and Borehole Measurements:			
Rm @ Measured Temperature:	@	Bitsize:	9.875in
Rmf @ Measured Temperature:	@	Type Fluid in Hole:	Accolade SBM
Rmc @ Measured Temperature:	@		

Remarks:

DT Compressional processed using 10 KHz-16 KHz filter and a Median Residual filter.

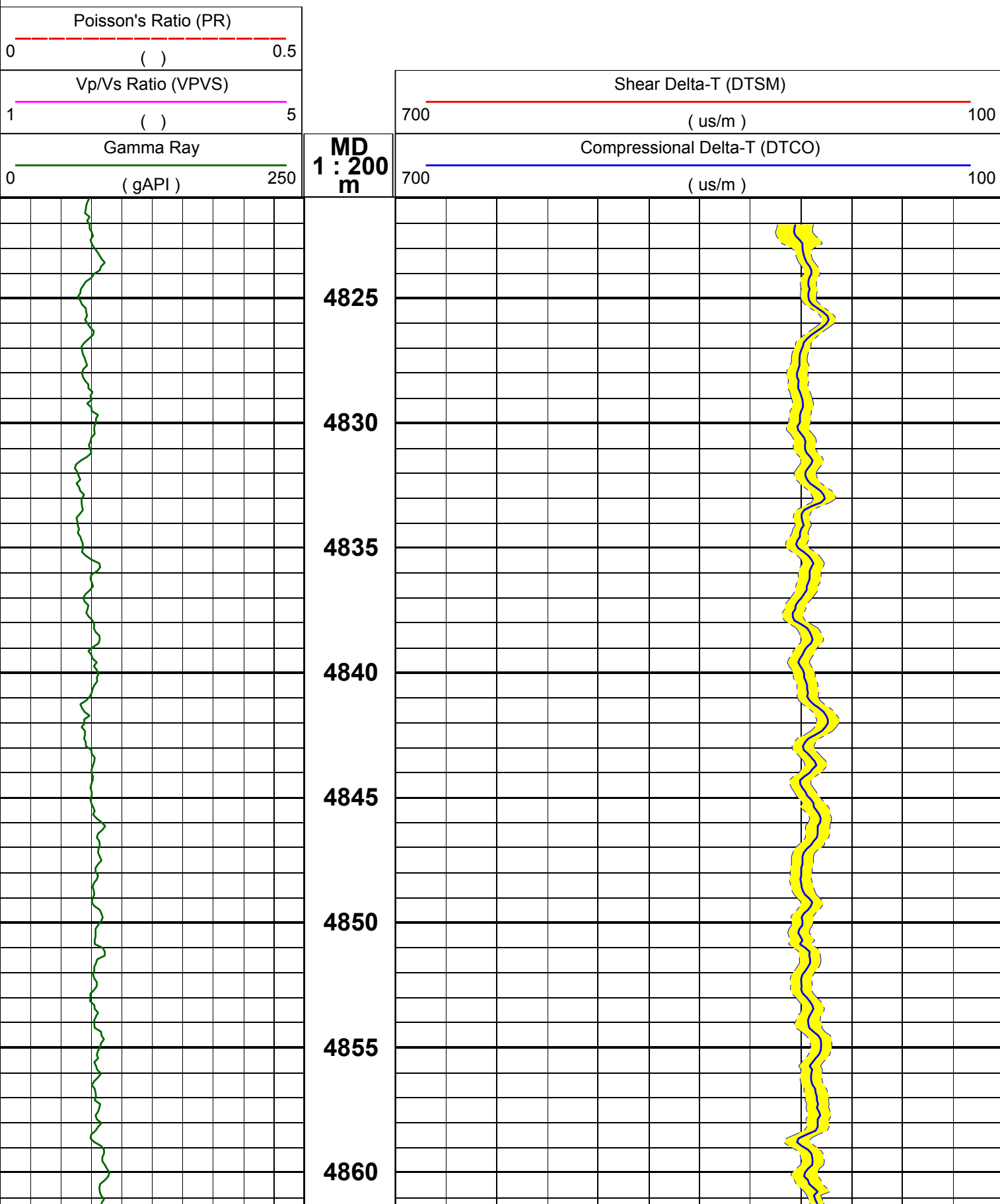
DT Shear processed using 5 KHz-11 KHz filter and a Median Residual filter.

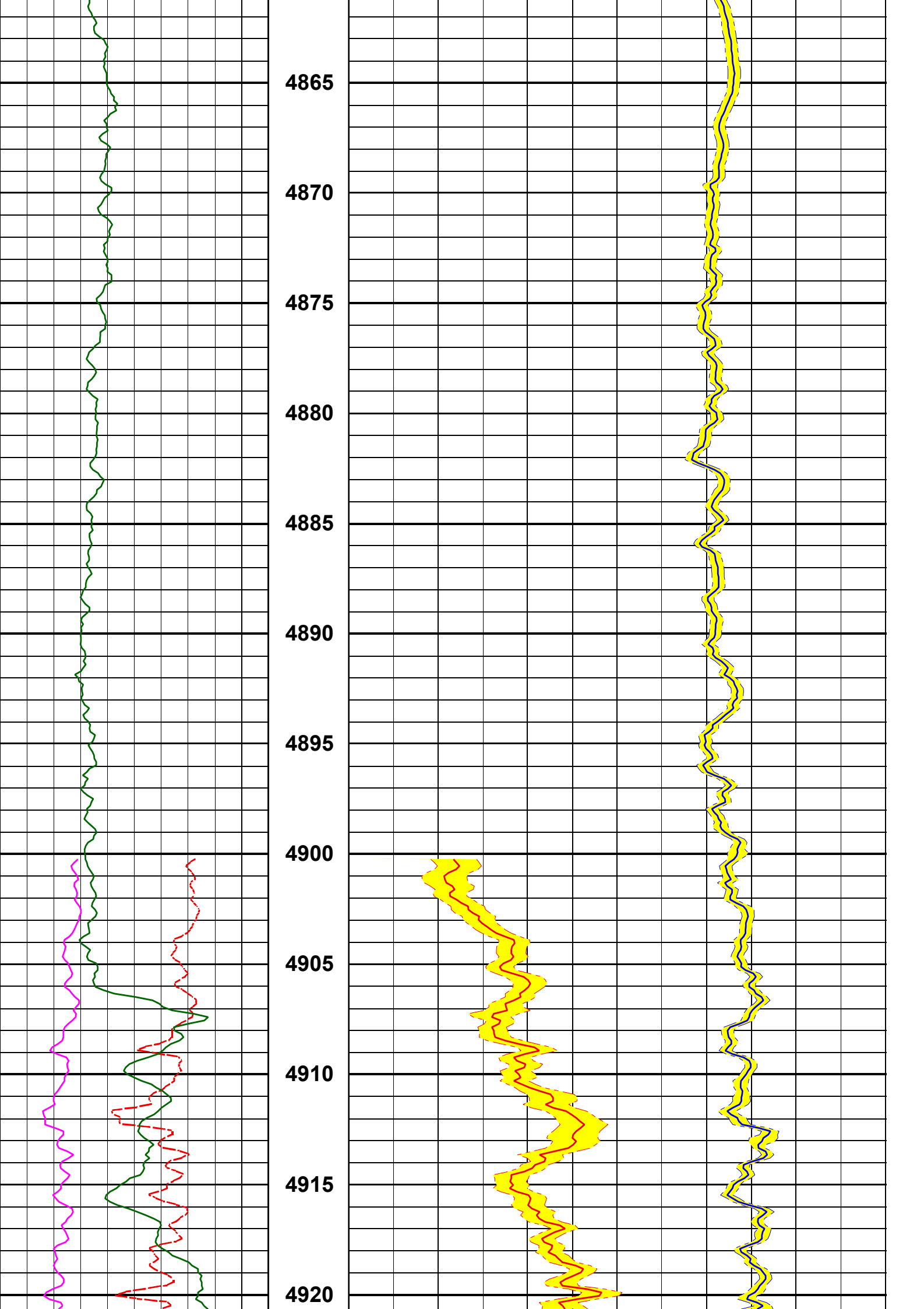
For more parameters see the bottom of the QC Log.

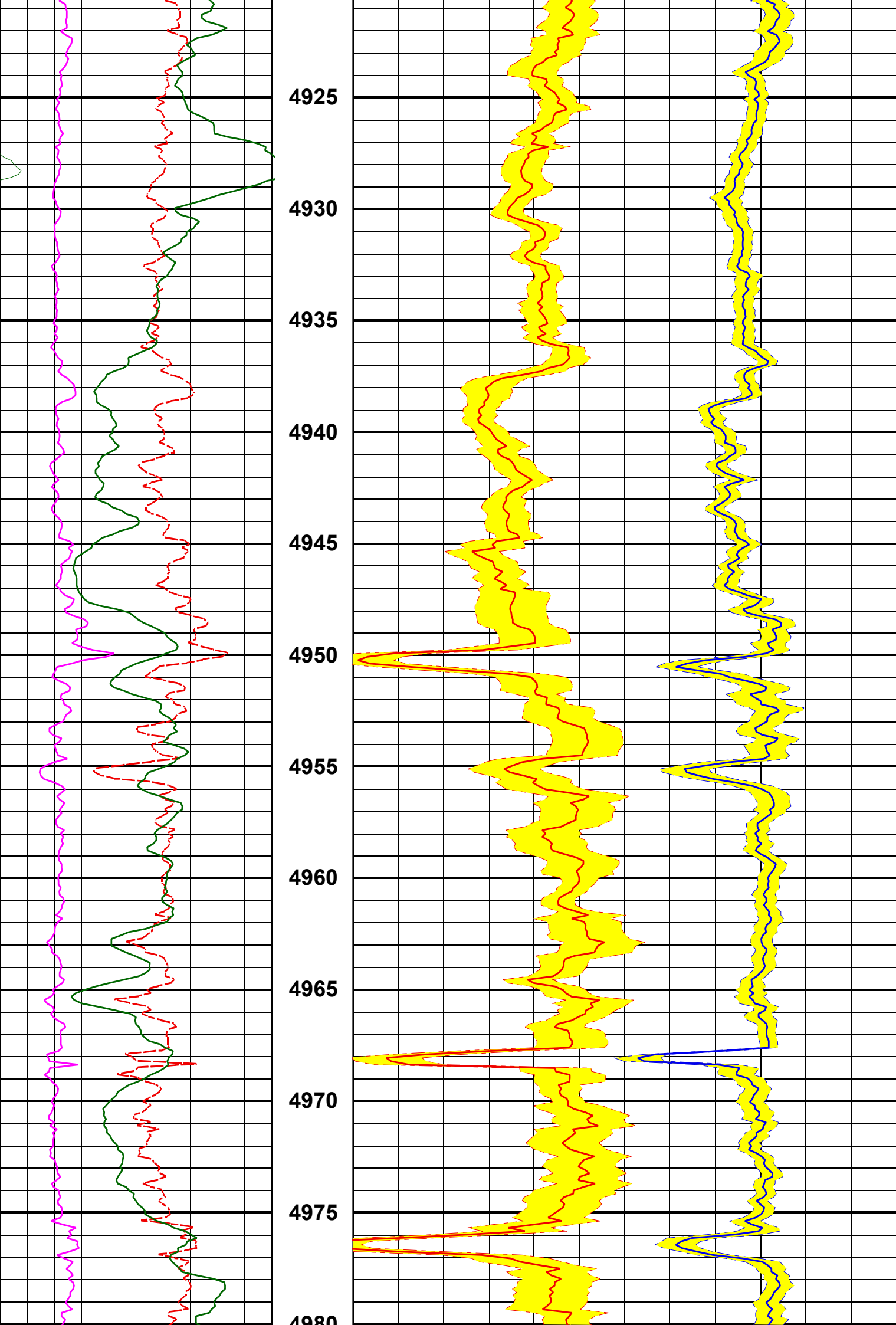
Data taken from R5 Drill pass from 5069m-4921m, R4 Drill pass from 4921m-4861m and R5 Trip pass from 4861m-4822m.

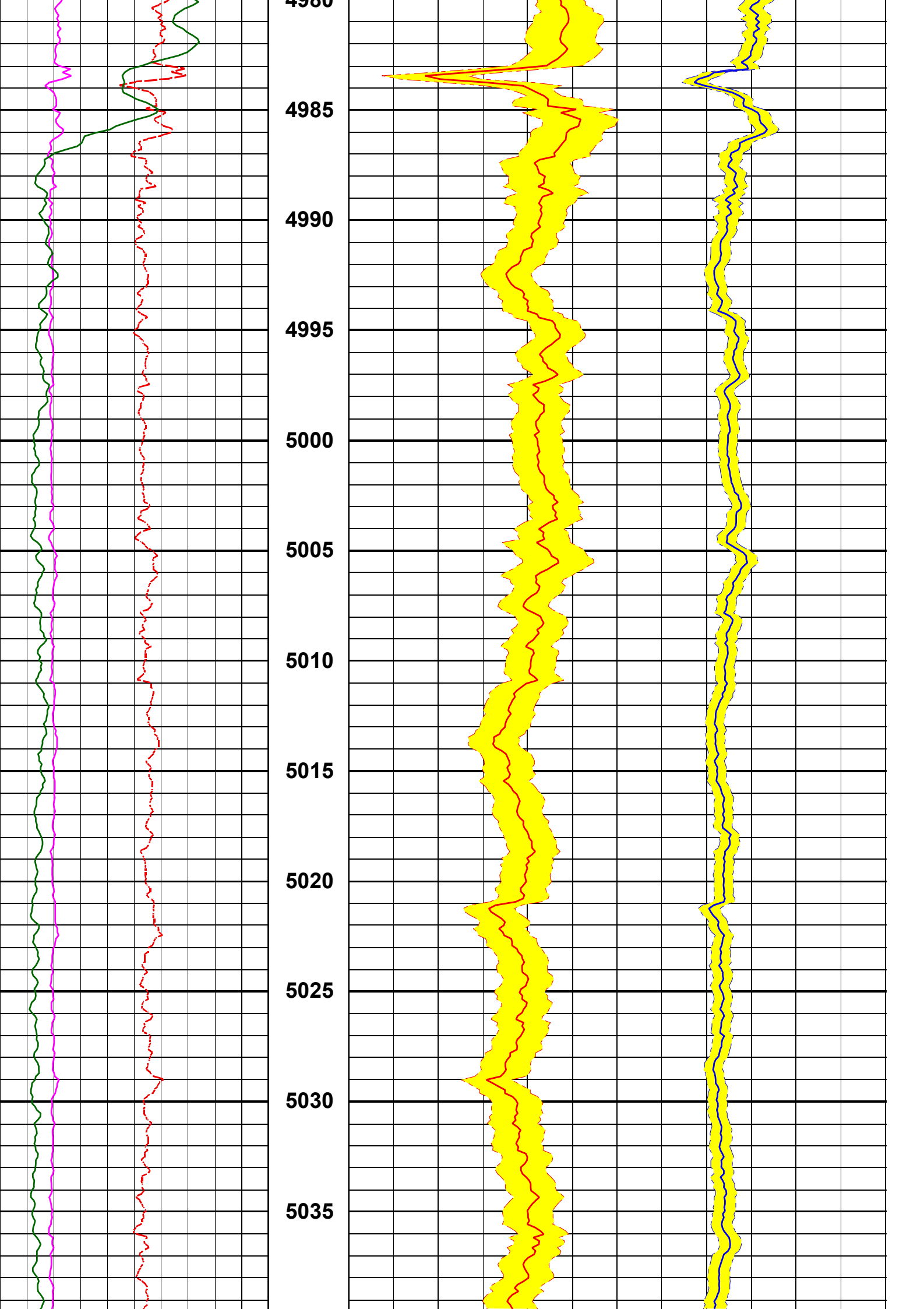
Data quality of the R4 Drill pass and R5 Tripping pass was poor from 4921-4861m due to excessive noise.

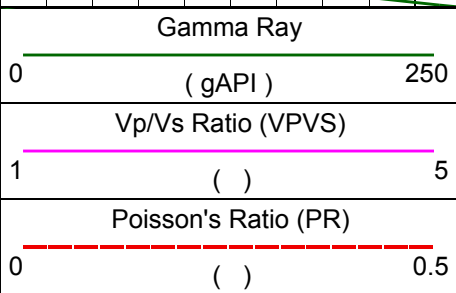
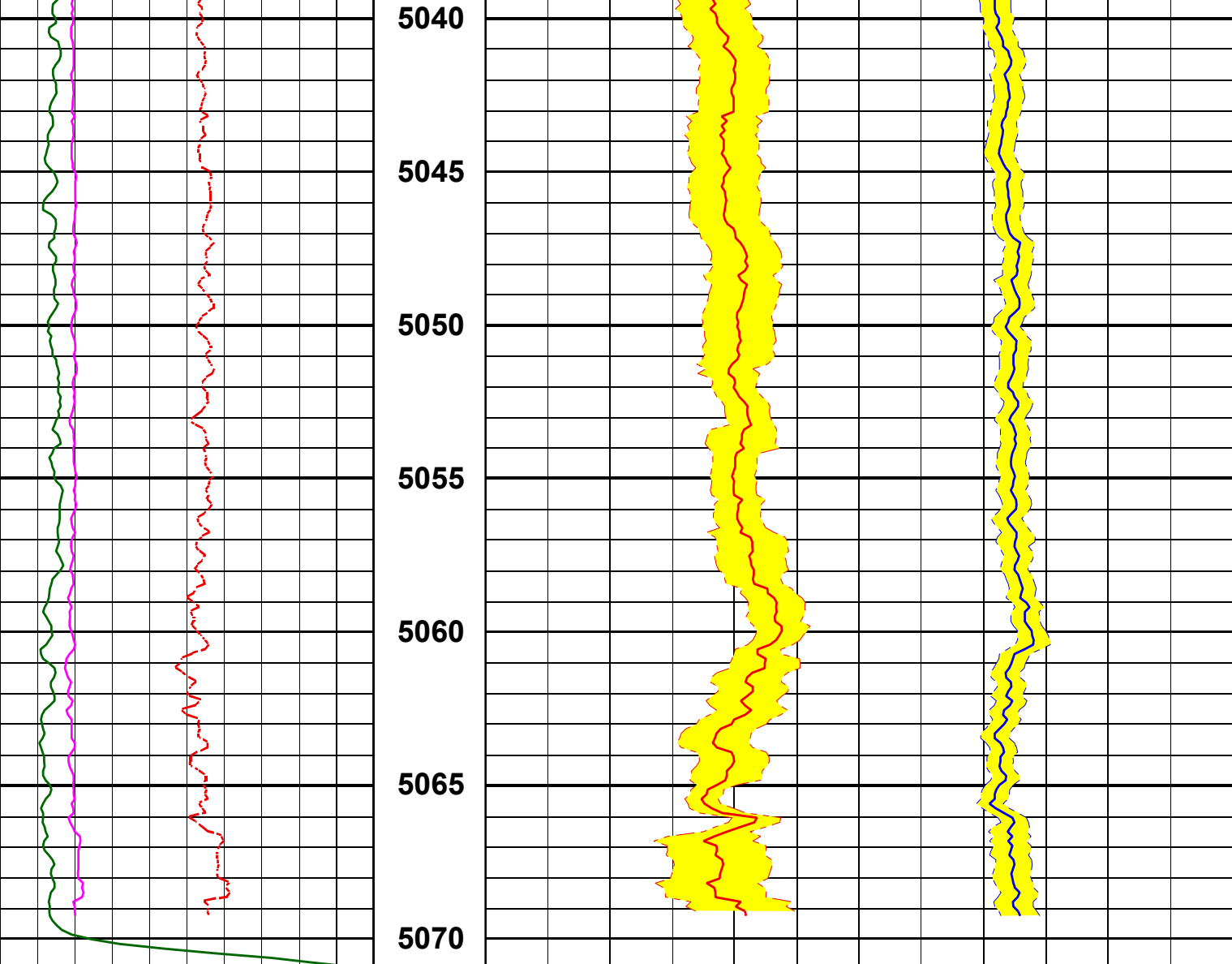
Processed Results



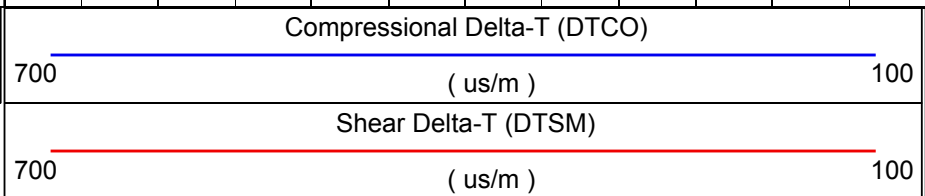




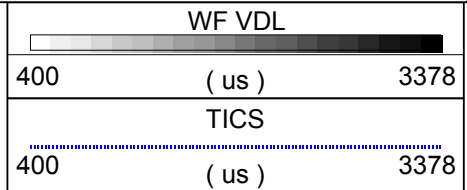
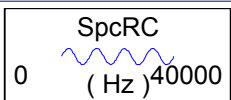


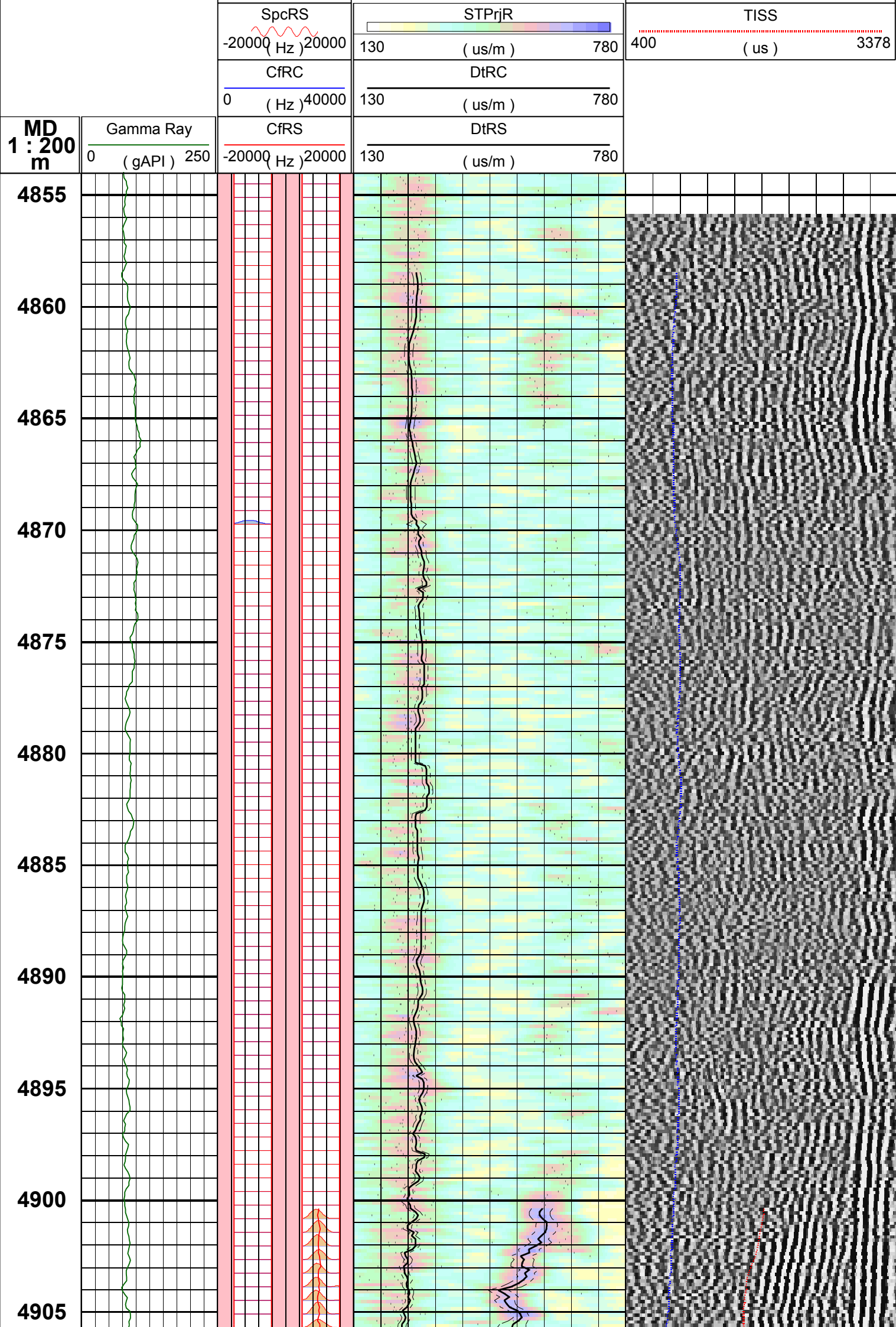


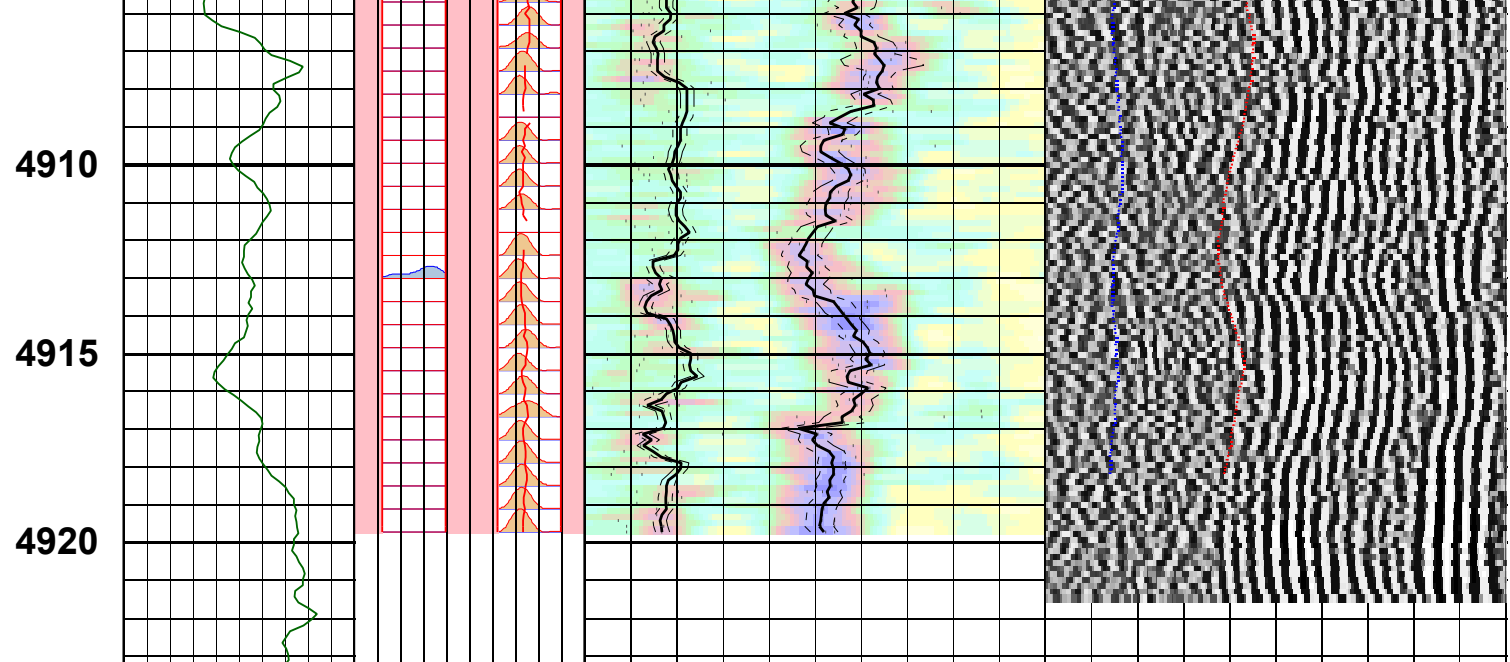
MD
1 : 200
m



Run 4 Drilling Pass Compressional and Shear QC

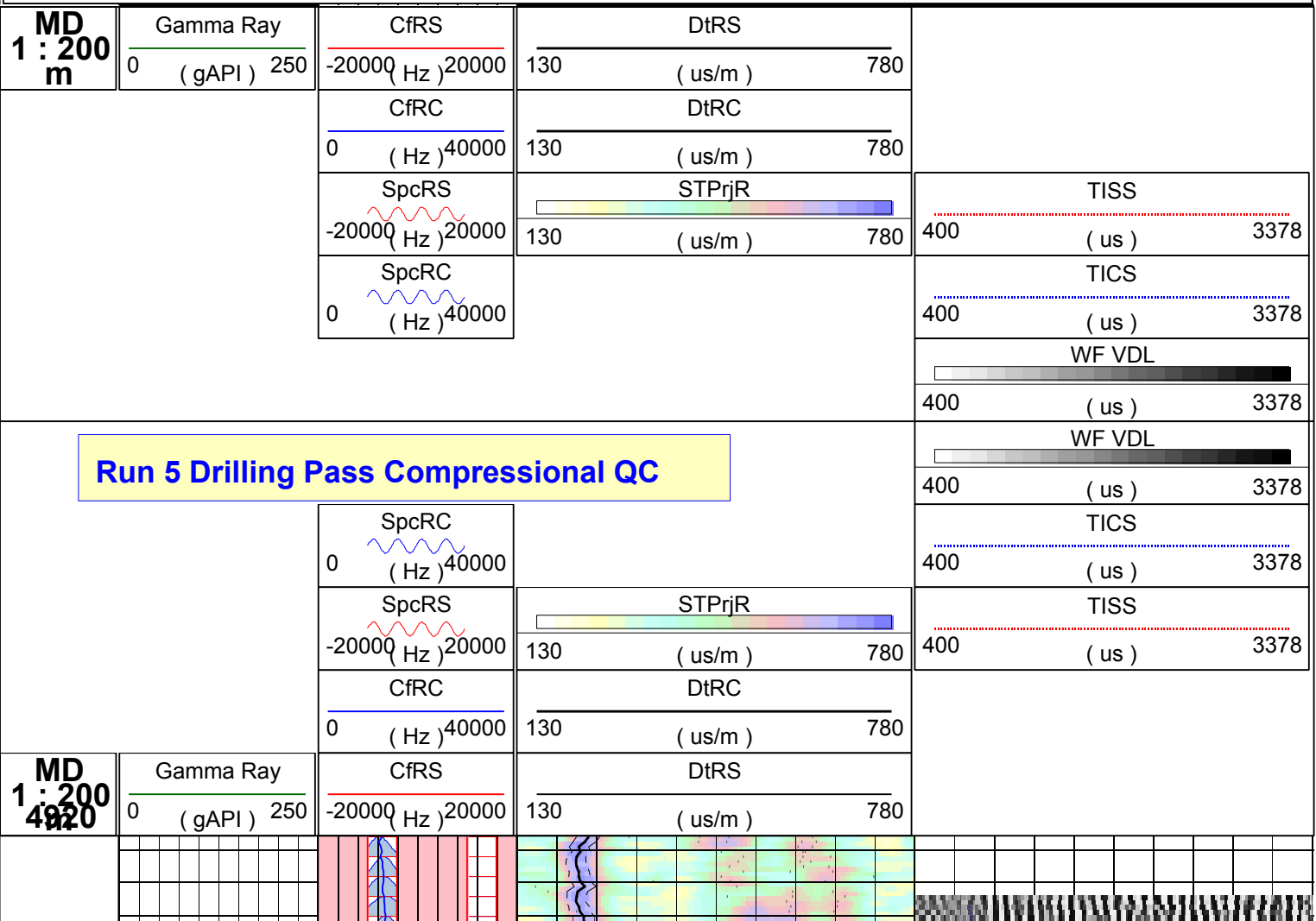


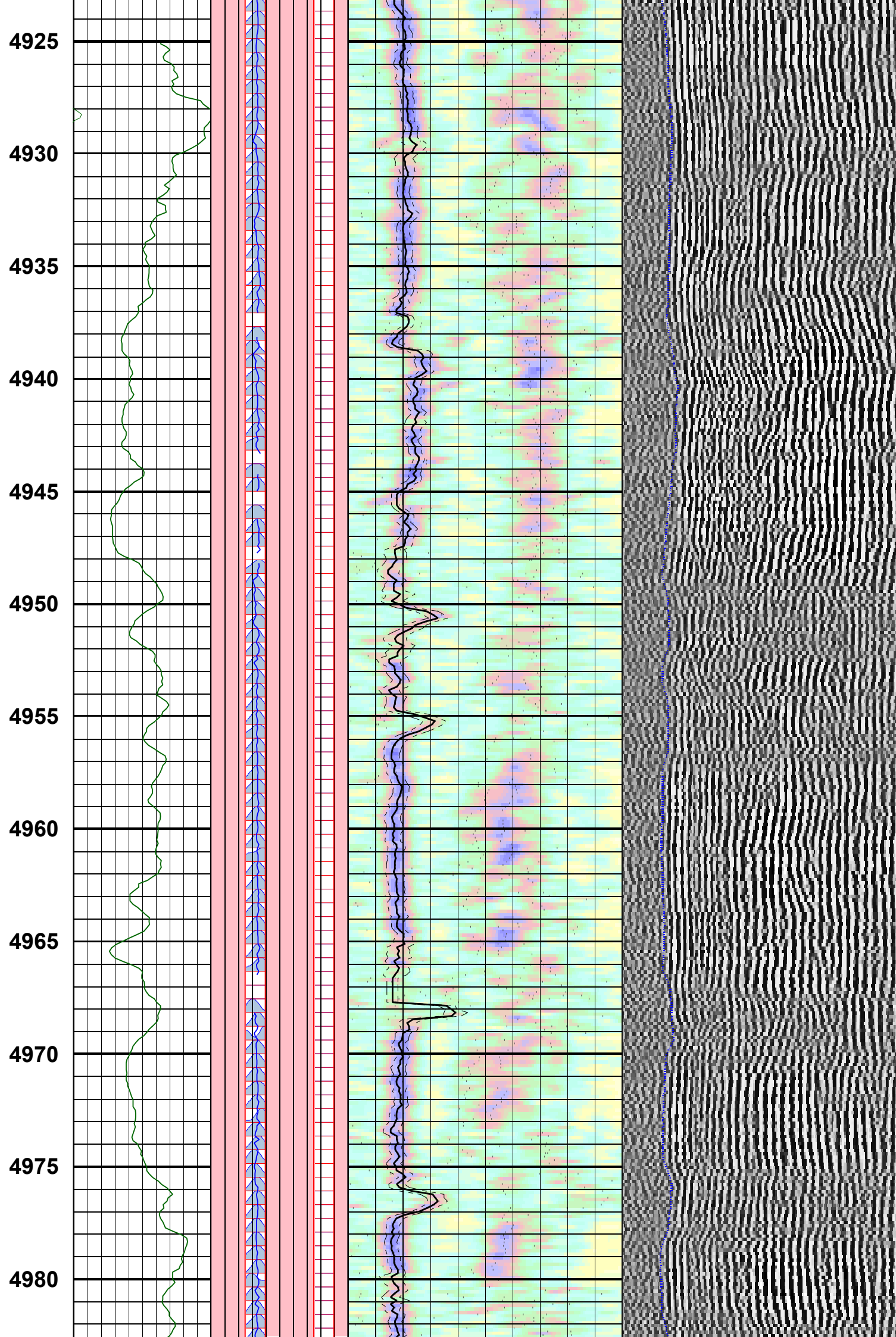


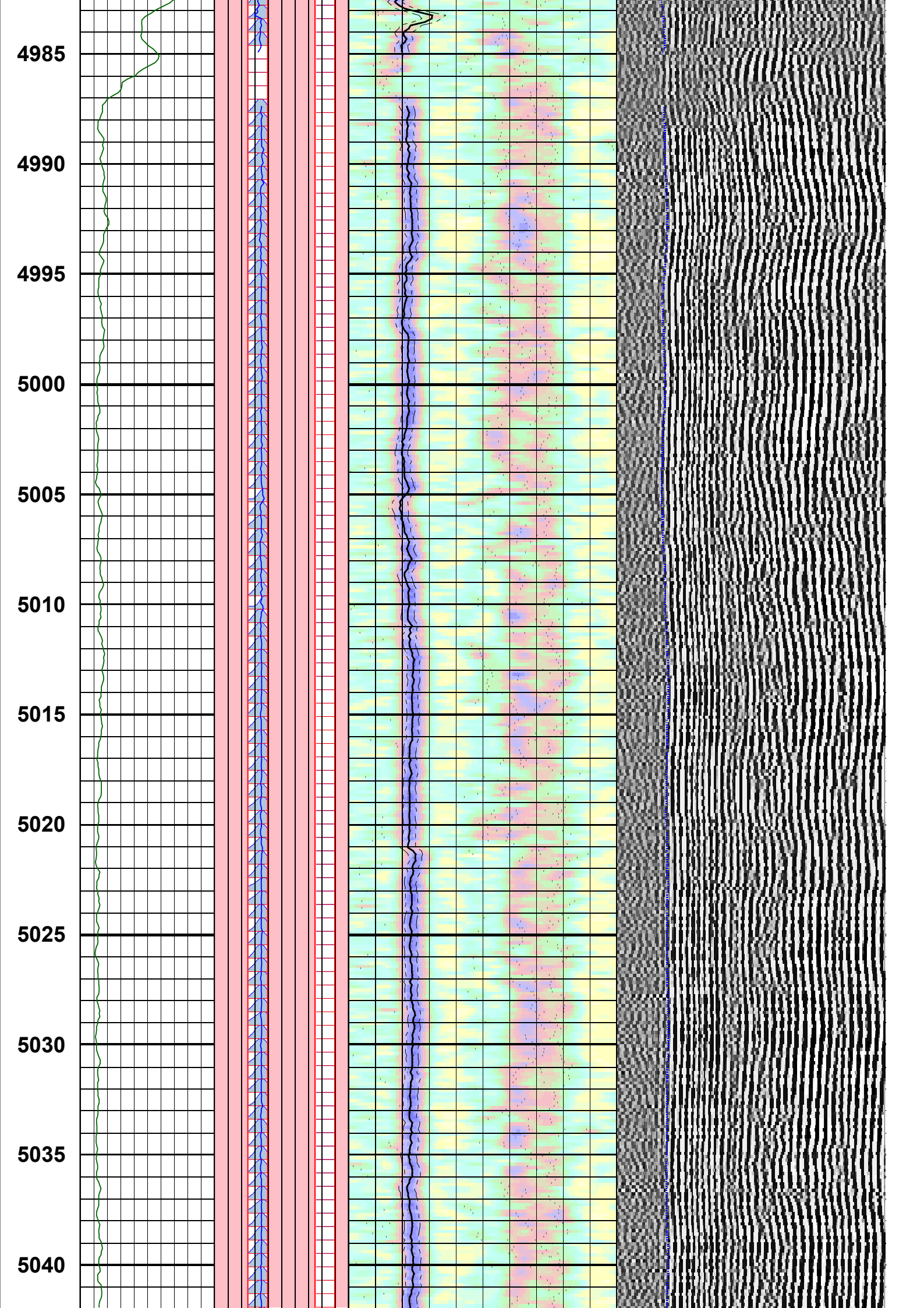


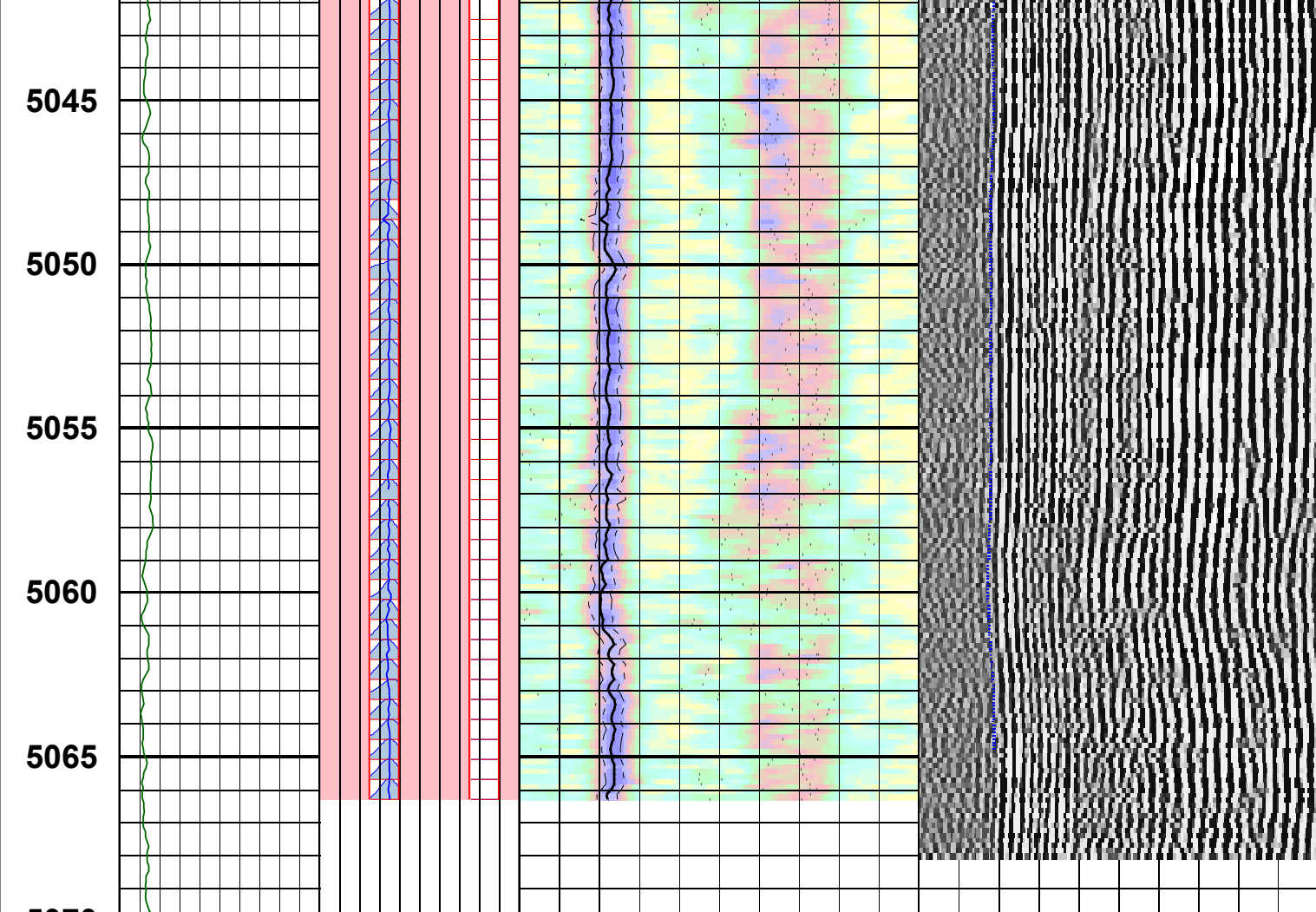
Customized Process: Start Depth (4922.74 m), Stop Depth (4854.05 m), Logging Mode (ISONIC - MPS_WIDE)
Noise Cut Filtering(Yes - Median Residual, WS 320), Casing Cut Filtering(No)
WF_FLG(1 1 1 1), MUD_TYPE(OBM), DTMUD(721.785), STCAL(Full Array)
TRSPAC(3.00228), RRSPAC(0 0.2032 0.4064 0.6096)
Hole Diameter (BS@DVM_027PDP;1 (4352.54 - 4949.65 m))
Zoning Guide (no input)
Tracking Guide (no input)

--- Zone Top Depth (0), Zone Name (Zone1) ---
SFTY(Fast), BHS(OPEN), CSIZ(7), HDM(Fix*), HD(9.875)
TWI(238.281), SLL(130.294), SUL(918.571), SST(6.51469), TLL(400), TUL(3378.52), TST(39.7135)
SBW(1120), SBO(660*), SWD(65.6168), TWD(840), SEM(0.45), FLENG(47*), FLOW(5000*), FHIGH(16000)
TKO_MODEL_ORDER(2), TKO_TOL(50) TKO_FLOW(0), TKO_FHIGH(12000)





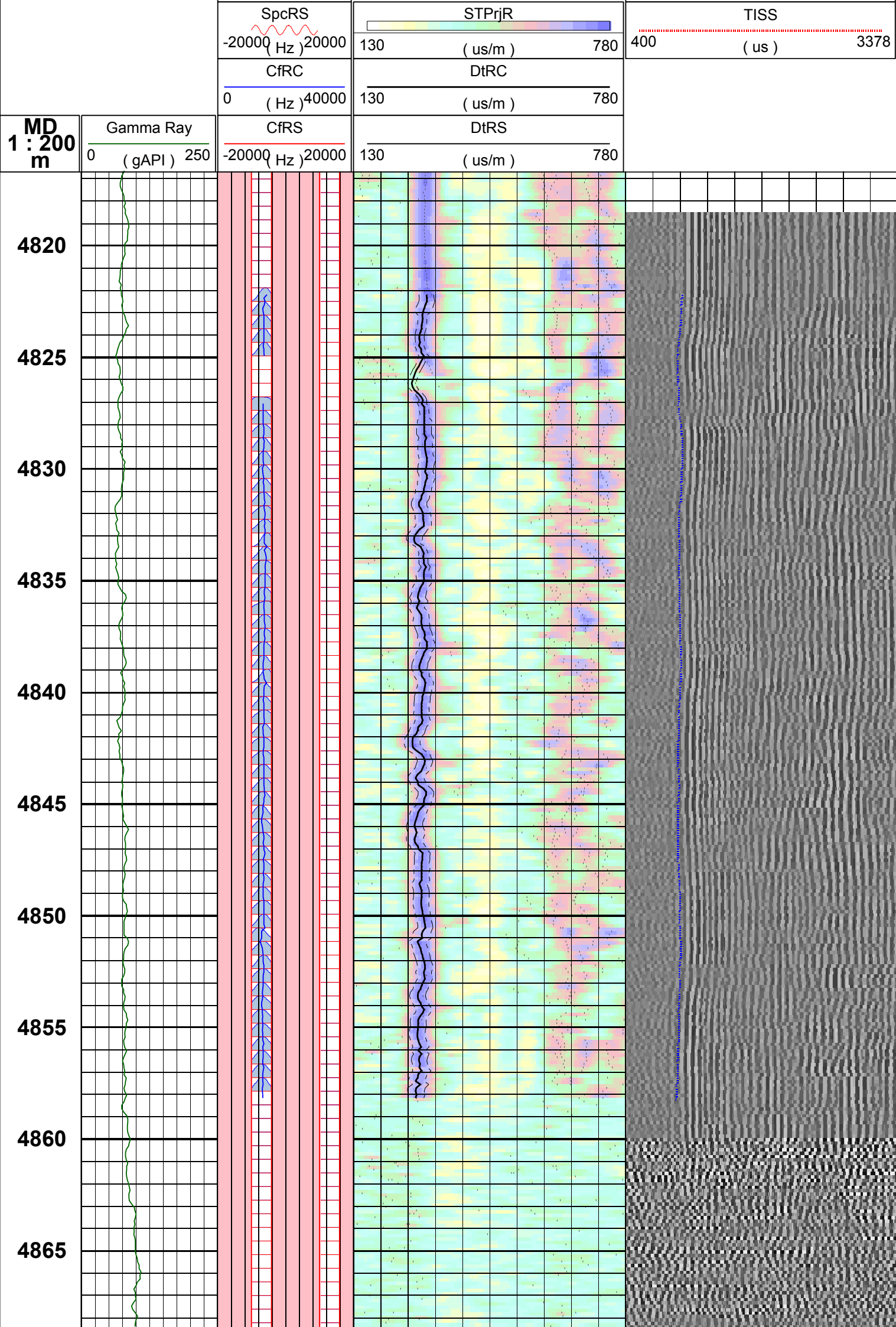


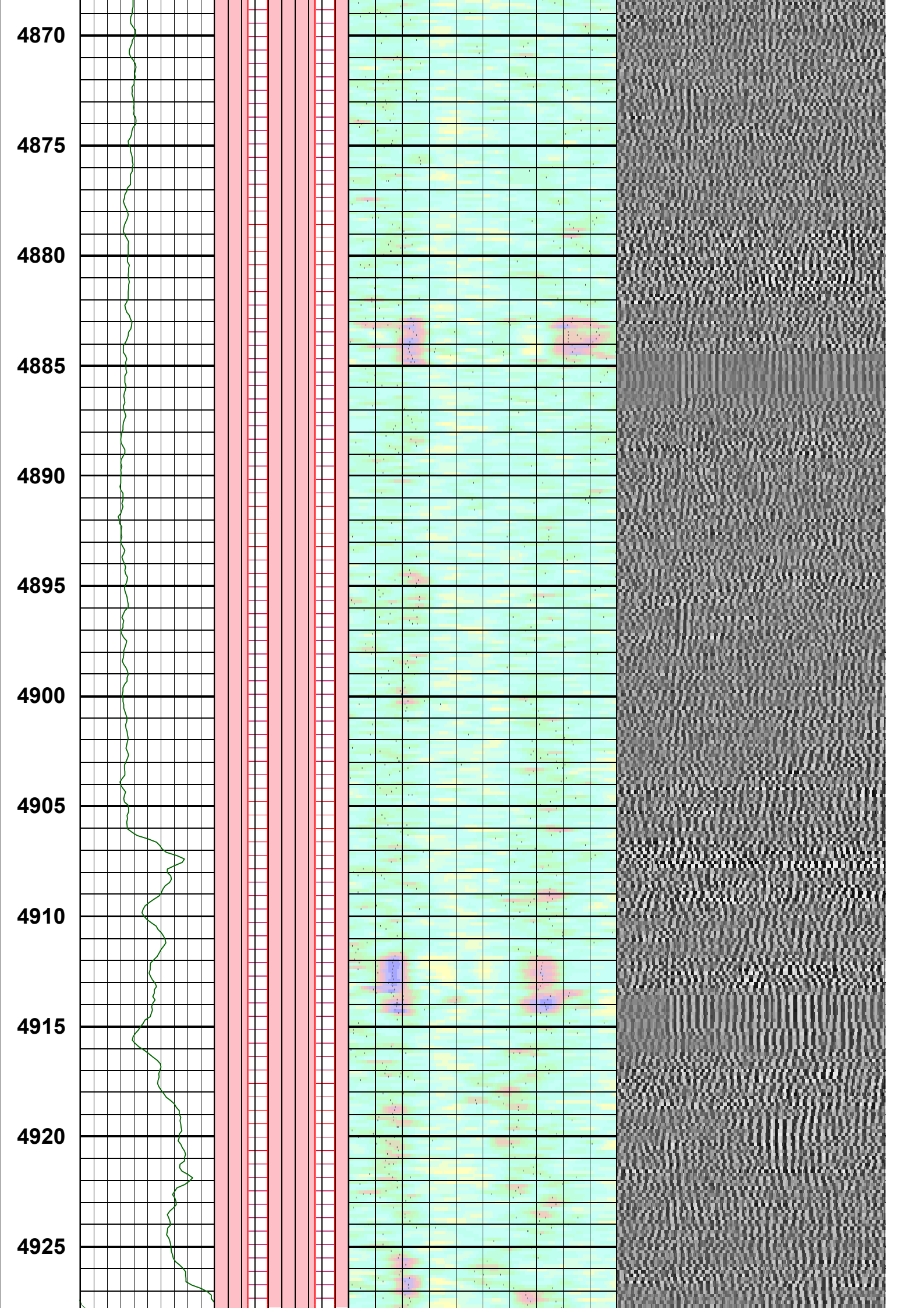


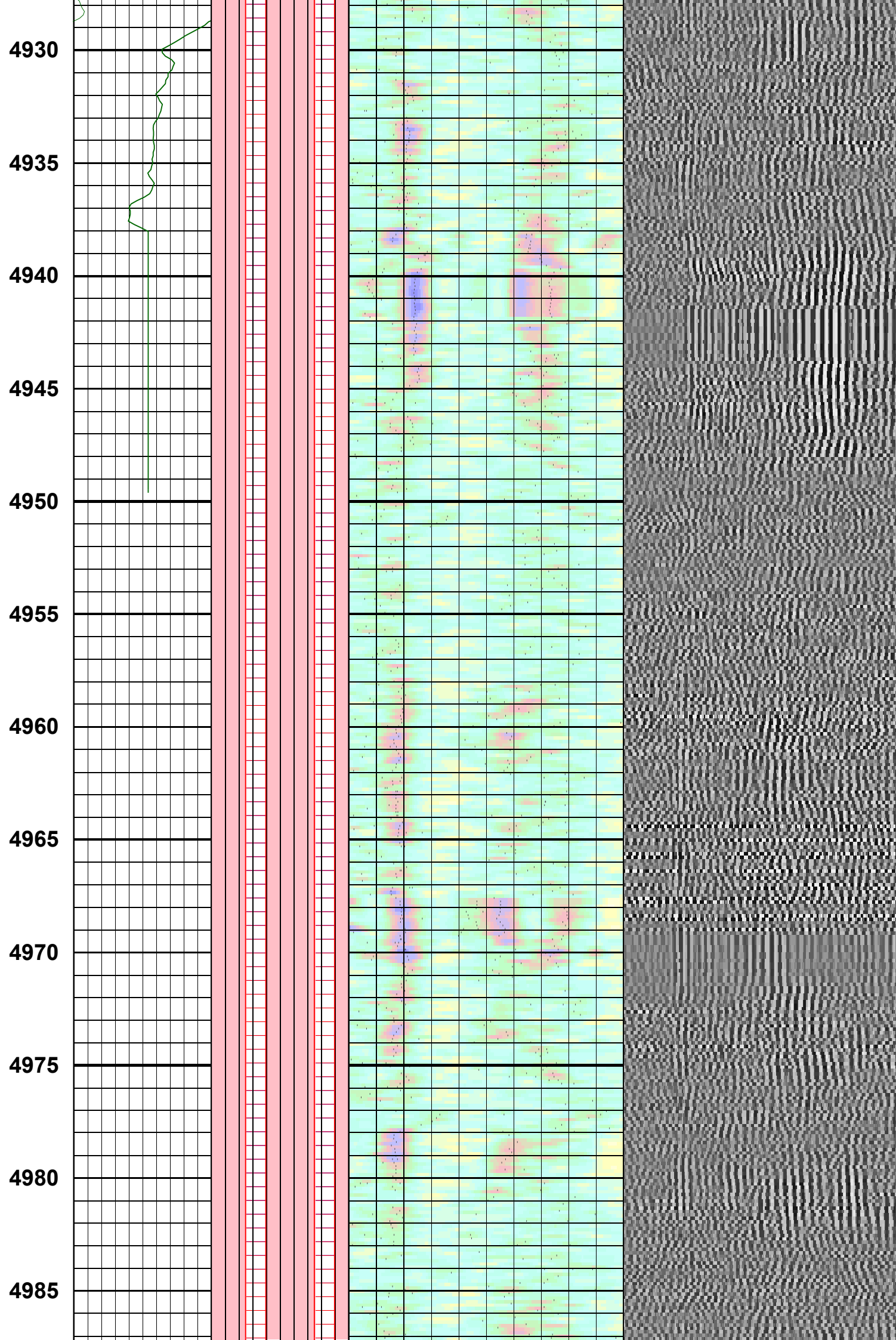
Customized Process: Start Depth (5069.3 m), Stop Depth (4920.6 m), Logging Mode (ISONIC - MPS_WIDE)
Noise Cut Filtering(No), Casing Cut Filtering(No)
WF_FLG(1 1 1 1), MUD_TYPE(OBM), DTMUD(721.785), STCAL(Full Array)
TRSPAC(3.00228), RRSPAC(0 0.2032 0.4064 0.6096)
Hole Diameter (BS@DVM_027PDP;1 (4352.54 - 4949.65 m))
Zoning Guide (DTBC@Run_5;1 (4739.94 - 5066.39 m))
Tracking Guide (no input)

--- Zone Top Depth (0), Zone Name (Zone1) ---
SFTY(Intermediate), BHS(OPEN), CSIZ(7), HDM(Fix*), HD(9.875)
TWI(238.281), SLL(130.294), SUL(918.571), SST(6.51469), TLL(400), TUL(3378.52), 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)

MD 1 : 200 m	Gamma Ray 0 (gAPI) 250	CfRS -20000 (Hz) 20000	DtRS 130 (us/m) 780		
		CfRC 0 (Hz) 40000	DtRC 130 (us/m) 780		
		SpcRS -20000 (Hz) 20000	STPrjR 130 (us/m) 780	TISS 400 (us) 3378	
		SpcRC 0 (Hz) 40000		TICS 400 (us) 3378	
				WF VDL 400 (us) 3378	
Run 5 Tripping Pass Compressional QC				WF VDL 400 (us) 3378	
				TICS 400 (us) 3378	







4990

4995

5000

5005

5010

5015

5020

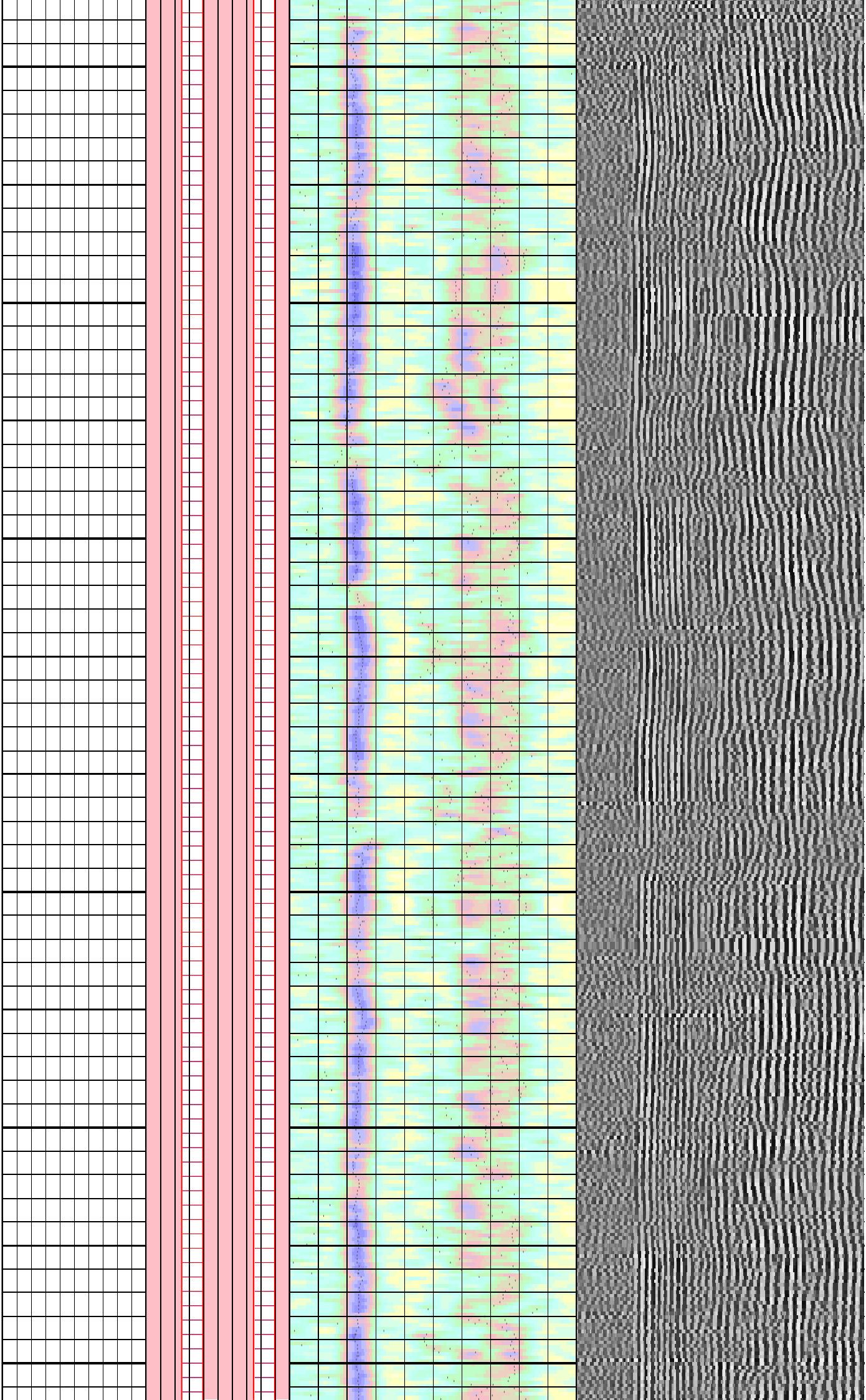
5025

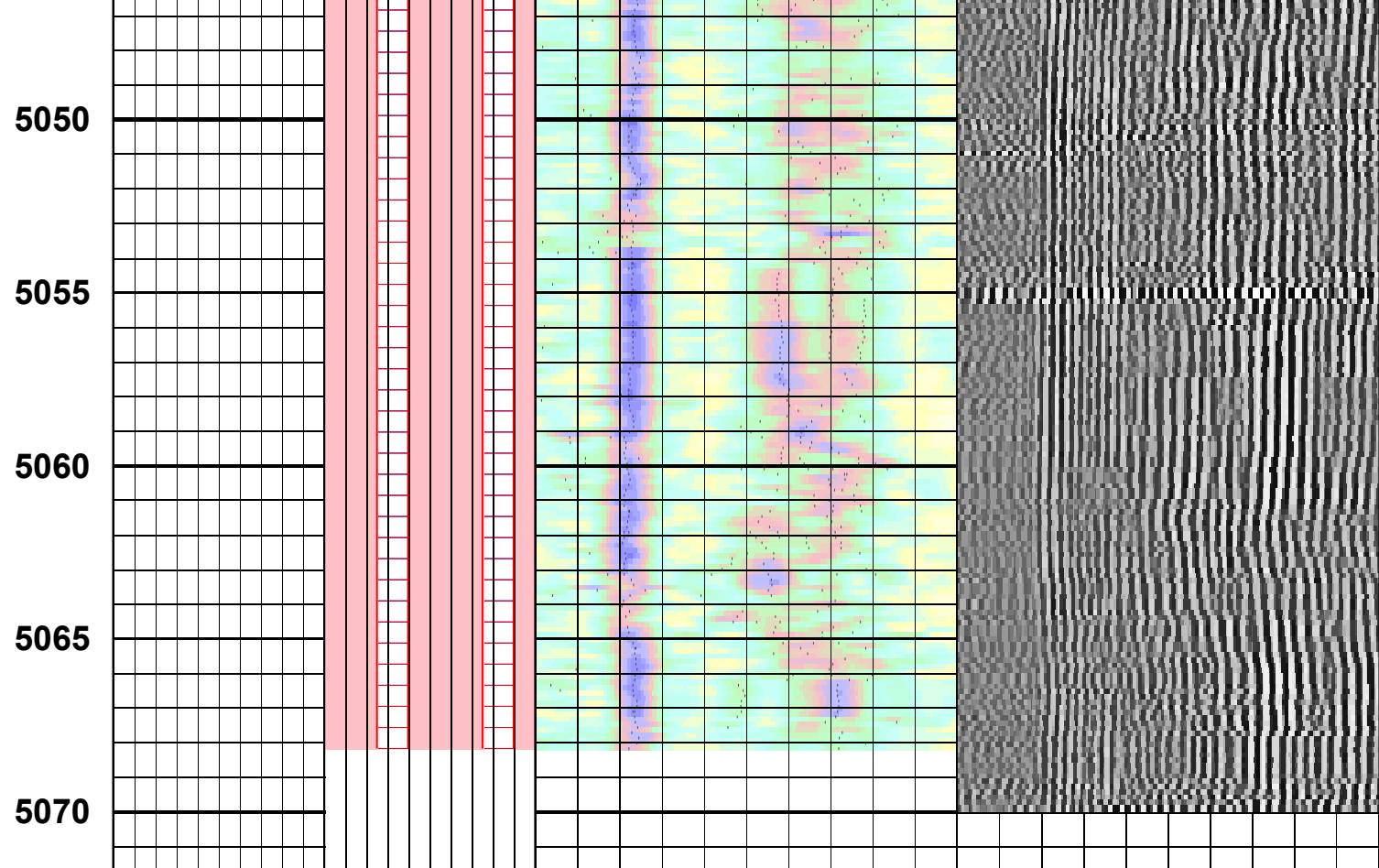
5030

5035

5040

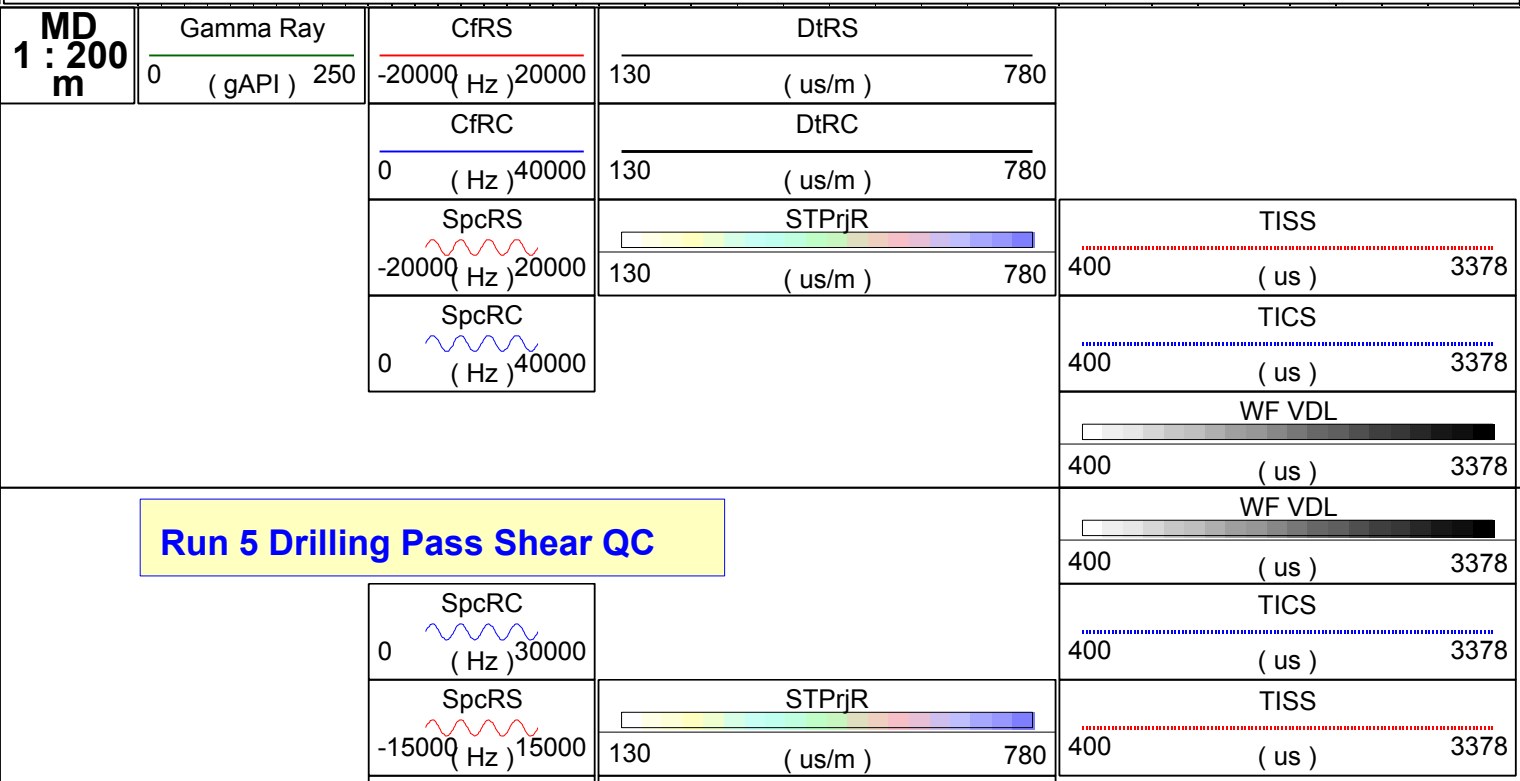
5045

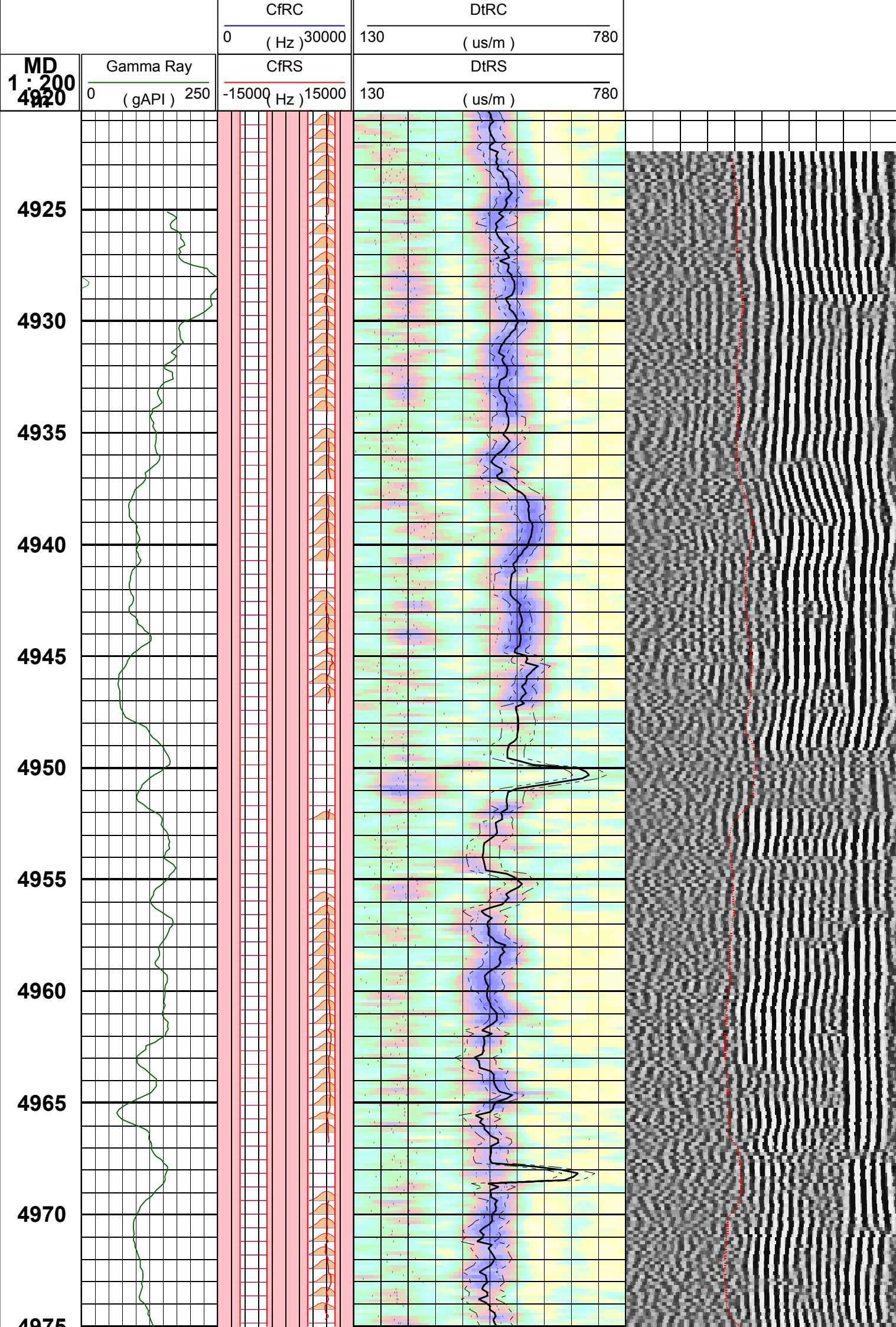


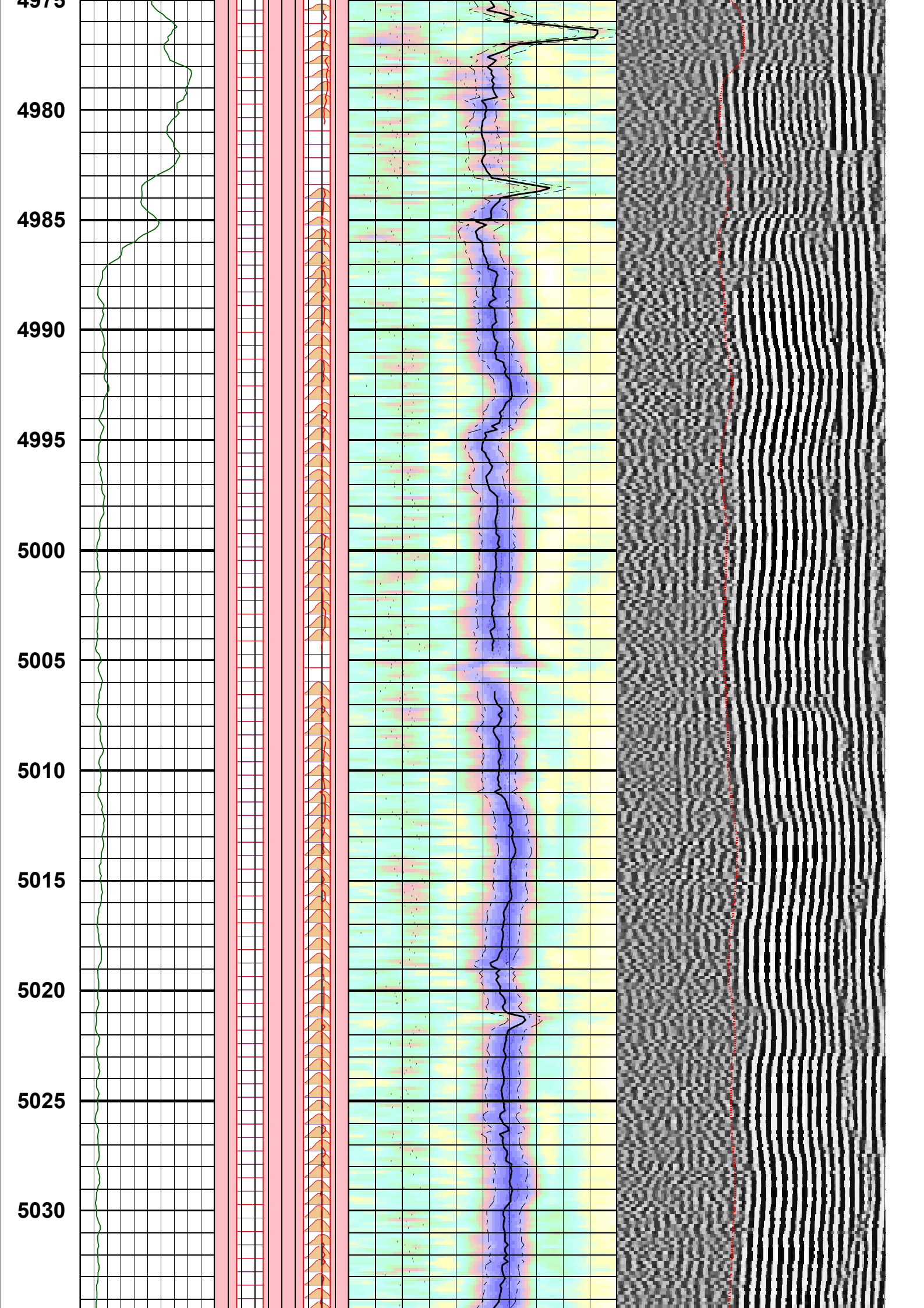


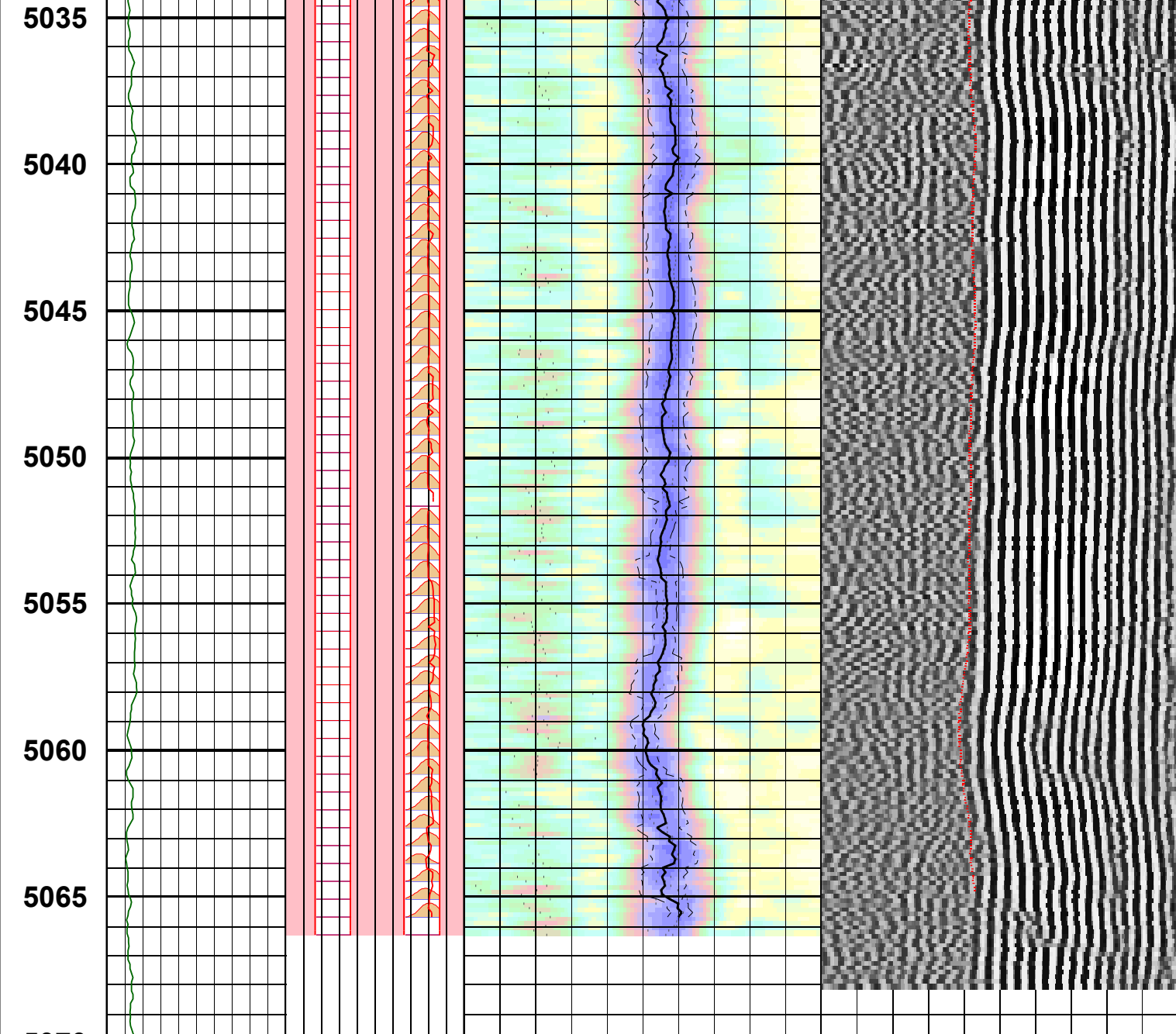
Customized Process: Start Depth (5071.17 m), Stop Depth (4816.71 m), Logging Mode (ISONIC - MPS_WIDE)
Noise Cut Filtering(Yes - Median Residual, WS 720), Casing Cut Filtering(No)
WF_FLG(1 1 1 1), MUD_TYPE(OBM), DTMUD(721.785), STCAL(Full Array)
TRSPAC(3.00228), RRSPAC(0 0.2032 0.4064 0.6096)
Hole Diameter (BS@DVM_081PDP;2 (4882.9 - 5095.95 m))
Zoning Guide (DTBC@Run_5;1 (4739.94 - 5066.39 m))
Tracking Guide (SLOW@BestDT-3;9 .DTRP .CO .MPS_WIDE .ISONIC .SWP .BDT (5068.17 - 4816.55 m))

--- Zone Top Depth (0), Zone Name (Zone1) ---
SFTY(Fast), BHS(OPEN), CSIZ(7), HDM(Fix*), HD(9.875)
TWI(238.281), SLL(130.294), SUL(918.571), SST(6.51469), TLL(400), TUL(3378.52), 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)







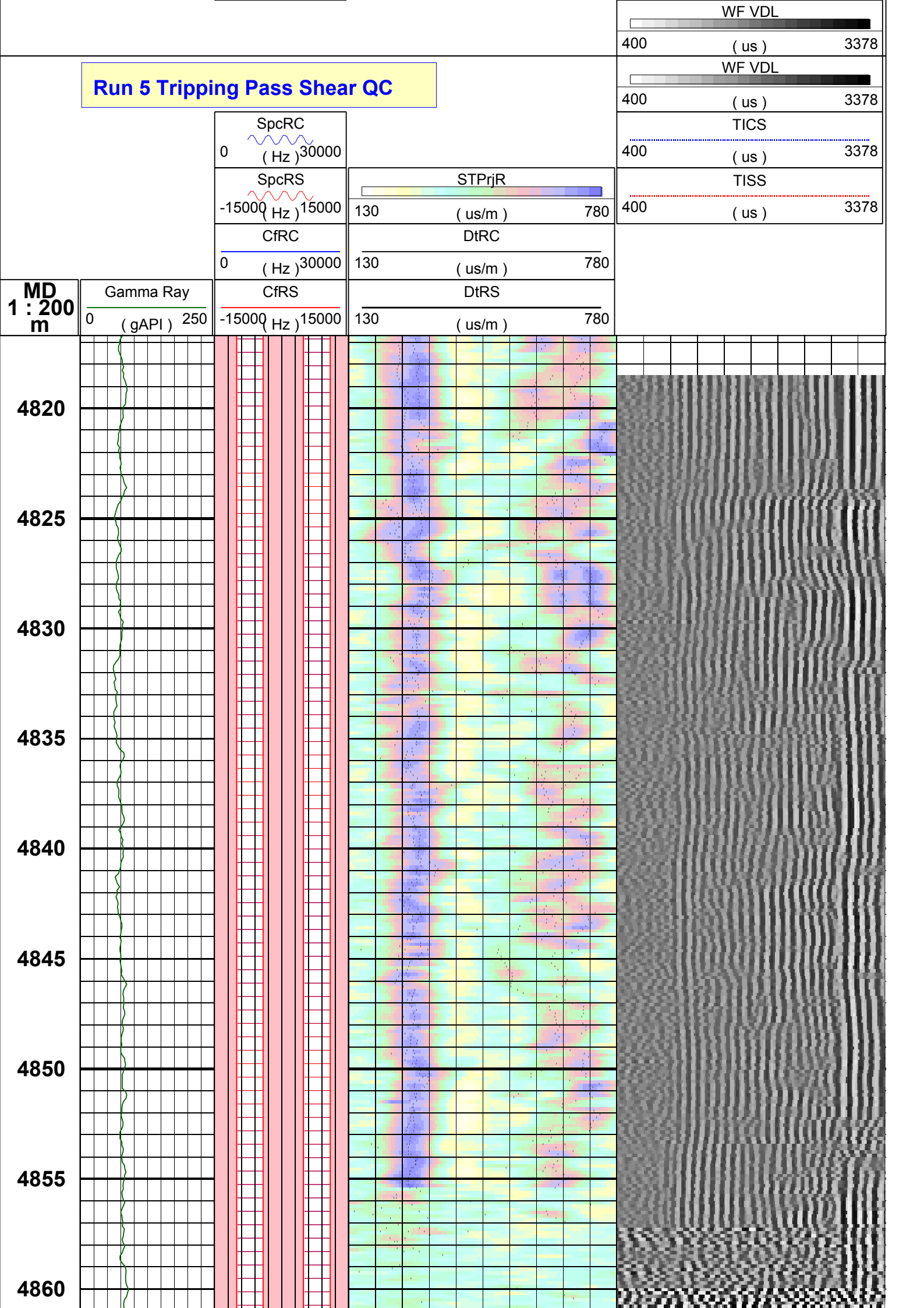


Customized Process: Start Depth (5069.3 m), Stop Depth (4920.6 m), Logging Mode (ISONIC - MPS_WIDE)
Noise Cut Filtering(Yes - Median Residual, WS 720), Casing Cut Filtering(No)
WF_FLG(1 1 1 1), MUD_TYPE(OBM), DTMUD(721.785), STCAL(Full Array)
TRSPAC(3.00228), RRSPAC(0 0.2032 0.4064 0.6096)
Hole Diameter (BS@DVM_027PDP;1 (4352.54 - 4949.65 m))
Zoning Guide (DTBC@Run_5;1 (4739.94 - 5066.39 m))
Tracking Guide (SLOW@BestDT-3;5 .DTRP .CO .MPS_WIDE .ISONIC .SWP .BDT .EDT (5066.3 - 4920.6 m))

--- Zone Top Depth (0), Zone Name (Zone1) ---

SFTY(Intermediate), BHS(OPEN), CSIZ(7), HDM(Fix*), HD(9.875)
TWI(238.281), SLL(130.294), SUL(918.571), SST(6.51469), TLL(400), TUL(3378.52), TST(39.7135)
SBW(1120), SBO(660*), 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 <div>0 (gAPI) 250</div>	CfRS <div>-15000 (Hz) 15000</div>	DtRS <div>130 (us/m) 780</div>		
		CfRC <div>0 (Hz) 30000</div>	DtRC <div>130 (us/m) 780</div>		
		SpcRS <div>-15000 (Hz) 15000</div>	STPrjR <div>130 (us/m) 780</div>	TISS <div>400 (us) 3378</div>	
		SpcRC <div>0 (Hz) 30000</div>		TICS <div>400 (us) 3378</div>	



4865

4870

Customized Process: Start Depth (4868.06 m), Stop Depth (4816.71 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(OBM), DTMUD(721.785), STCAL(Full Array)
TRSPAC(3.00228), RRSPAC(0 0.2032 0.4064 0.6096)
Hole Diameter (BS@DVM_081PDP;2 (4882.9 - 5095.95 m))
Zoning Guide (DTBC@Run_5;1 (4739.94 - 5066.39 m))
Tracking Guide (no input)

--- Zone Top Depth (0), Zone Name (Zone1) ---
SFTY(Fast), BHS(OPEN), CSIZ(7), HDM(Fix*), HD(9.875)
TWI(238.281), SLL(130.294), SUL(918.571), SST(6.51469), TLL(400), TUL(3378.52), TST(39.7135)
SBW(1120), SBO(660*), 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) 250	-15000 (Hz) 15000	130 (us/m) 780		
		CfRC	DtRC		
		0 (Hz) 30000	130 (us/m) 780		
		SpcRS	STPrjR	TISS	
		-15000 (Hz) 15000	130 (us/m) 780	400 (us) 3378	
		SpcRC		TICS	
		0 (Hz) 30000		400 (us) 3378	
				WF VDL	
				400 (us) 3378	

Company: ESSO Australia Pty. Ltd.
Well: FTA A30A
FIELD: Fortescue
RIG: ISDL 175
STATE: Victoria



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