

Company: Occidental Petroleum Inc

Well: Camenisch 2-15

Field: Wattenberg

County: Weld State: Colorado

Cement Bond Log
Variable Density Log
Gamma Ray - CCL

County: Weld
Field: Wattenberg
Location: NWNE Sec 15, T2N, R68W
Well: Camenisch 2-15
Company: Occidental Petroleum Inc

Location:	NWNE Sec 15, T2N, R68W	Elev.:	K.B.	4877.00 ft
	SHL: 470' FNL X 1795' FEL		G.L.	4865.00 ft
			D.F.	4876.00 ft
Permanent Datum:		Ground Level		4865.00 f
Log Measured From:		Kelly Bushing		12.00 ft
Drilling Measured From:		Kelly Bushing		above Perm. Datum
API Serial No.	05-123-23296	Section:	15	Township:
				2N
				Range:
				68W

Logging Date	07-Apr-2022
Run Number	One
Depth Driller	8120.00 ft
Schlumberger Depth	8120.00 ft
Bottom Log Interval	7200.00 ft
Top Log Interval	50.00 ft
Casing Fluid Type	Water
Salinity	
Density	8.3 lbm/gal
Fluid Level	8.00 ft
BIT/CASING/TUBING STRING	
Bit Size	7.88 in
From	750.00 ft
To	8120.00 ft
Casing/Tubing Size	4.5 in
Weight	11.6 lbm/ft
Grade	L80
From	0.00 ft
To	8053.00 ft
Max Recorded Temperatures	205 degF
Logger on Bottom	Time
Unit Number	Location:
Recorded By	
Witnessed By	

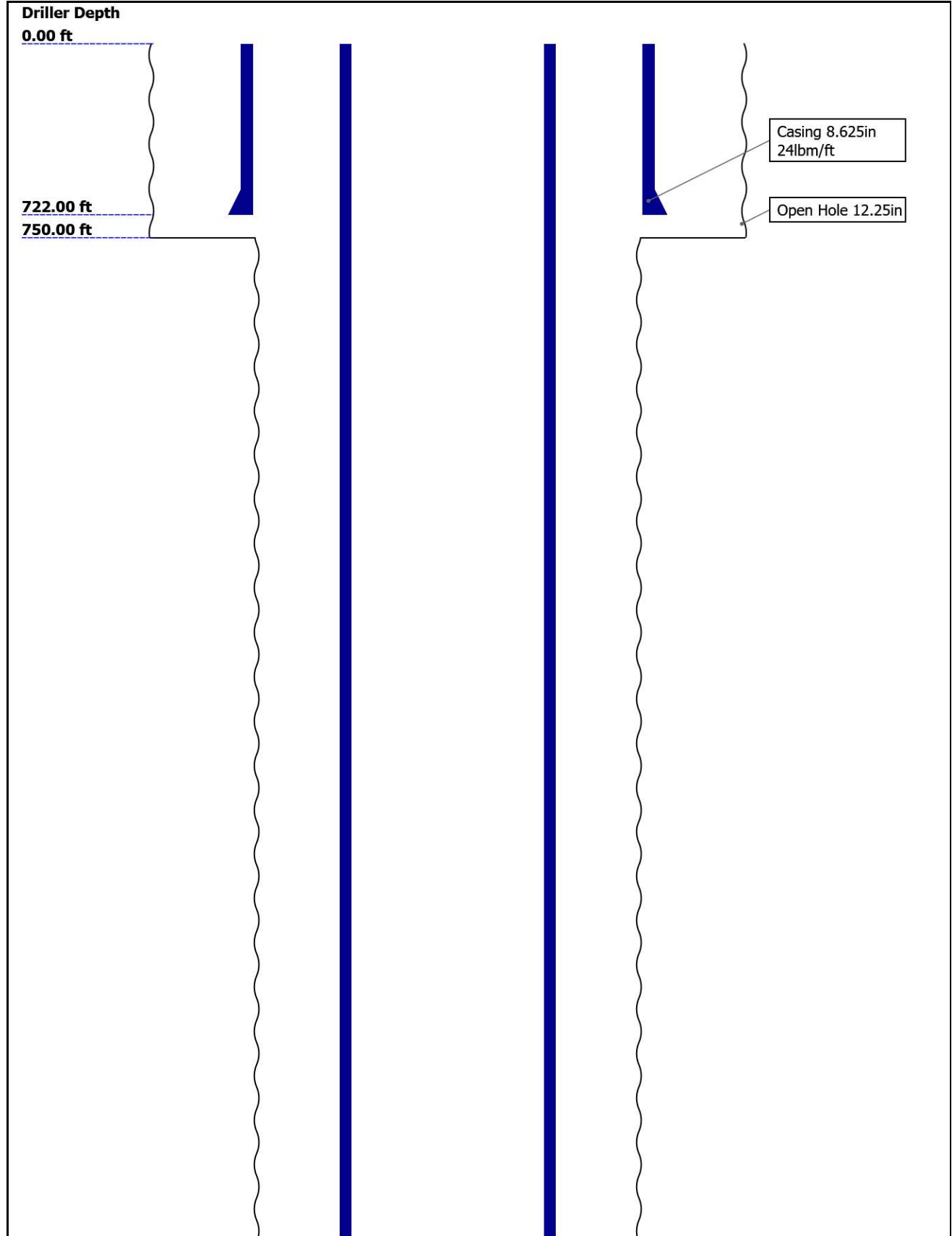
Disclaimer

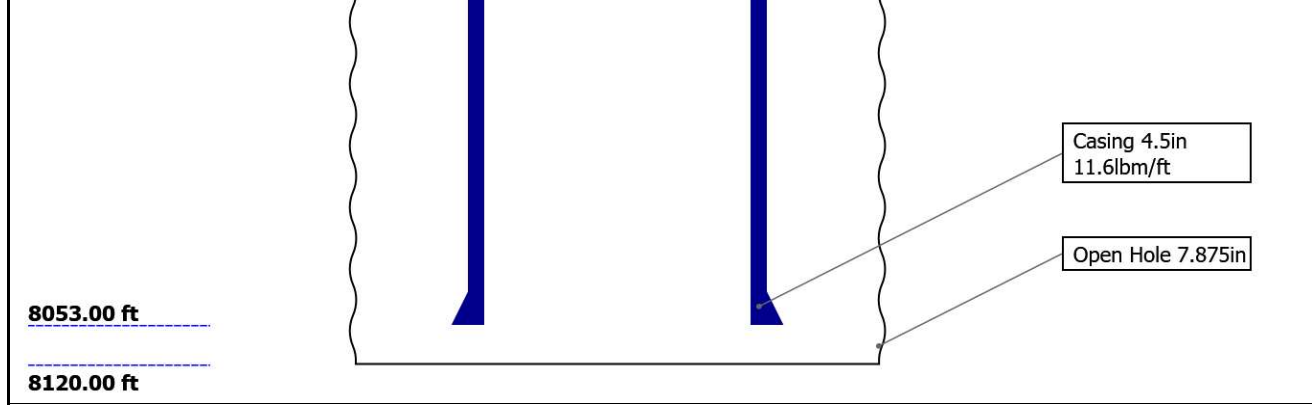
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Well Sketch





Borehole Size/Casing/Tubing Record

Bit					
Bit Size (in)	12.25	7.875			
Top Driller (ft)	0	750			
Top Logger (ft)	0	750			
Bottom Driller (ft)	750	8120			
Bottom Logger (ft)	750	8120			
Casing					
Size (in)	8.625	4.5			
Weight (lbm/ft)	24	11.6			
Inner Diameter (in)	8.097	4			
Grade	J55	L80			
Top Driller (ft)	0	0			
Top Logger (ft)	0	0			
Bottom Driller (ft)	722	8053			
Bottom Logger (ft)	722	8053			

Remarks and Equipment Summary

One: Toolstring

One: Remarks

Equip name length
LEH-QT 55.47
 LEH-QT

MP name Offset



EDTC-B: 51.98
8397
 EDTH-B:
 9046
 EDTG-A:
 79136
 EDTC-B:
 8397

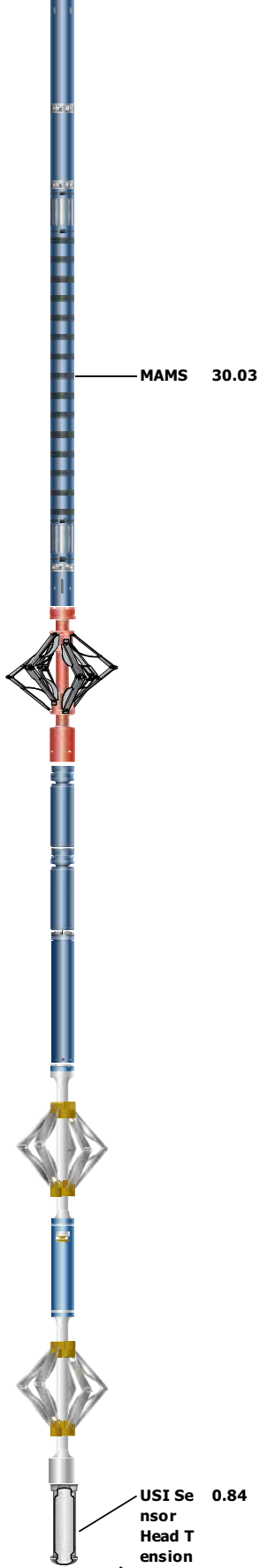
CTEM 48.48
ACCZ 0.00
HV 0.00
Gamm 46.61
a Ray
TelSta 45.48
tus

MAST-B 45.48
:8574
 ECH-SF:
 8453
 MAPC-BA
 :8473
 MAMS-BA
 :8574

Main pass logged with 1000psi of surface induced pressure from TD to surface, Repeat pass logged without pressure

Tool was run as per tool sketch

All logging intervals as per client request



CME-AF 24.43

AH-184 [2] 20.64

AH-184 [1] 18.64

USIT-E:9 16.64

- 35
- ECH-MFA
- :2716
- USAC-A:
- 935
- USIS-A:1
- 832
- USSC-B
- IBCS-A:7
- 98
- FAR-SEN
- SOR:4691
- IBC-TX
- NEAR-SE
- NSOR:31
- 50
- IBC-TX
- USI-SEN
- SOR:4835
- IBC-TX
- EMITTER
- SENSOR
- :4838
- IBC-TX

USI Sensor Head Extension 0.84
TOOL_ZERO

Lengths are in ft

Maximum Outer Diameter = 3.800 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

One

Depth Measuring Device

Type

IDW-B

Serial Number			
Calibration Date			
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	0		
Wheel Correction 2	0		

Tension Device

Type	CMTD-B/A		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Number of Calibration Points	0		

Logging Cable

Type	7-46A-XS		
Serial Number	F721083		
Length	28000.00 ft		
Conveyance Type	Wireline		
Rig Type			

One:Depth Control Parameters **Depth Control Remarks**

Log Sequence	First Log In the Well	Schlumberger depth control procedures followed
Rig Up Length At Surface		IDW used as primary depth control system
Rig Up Length At Bottom		Z-Chart used as secondary depth control system
Rig Up Length Correction		
Stretch Correction		
Tool Zero Check At Surface		

One

Software Version

Acquisition System	Version
Maxwell 2022.0	12.0.215014.3100
Application Patch	Wireline_Hotfix-Mandatory-2022.0_12.0.216515

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[8]:Up	Up	74.76 ft	7211.67 ft	11-Apr-2022 9:54:47 AM	11-Apr-2022 11:46:21 AM	ON	4.95 ft	Yes

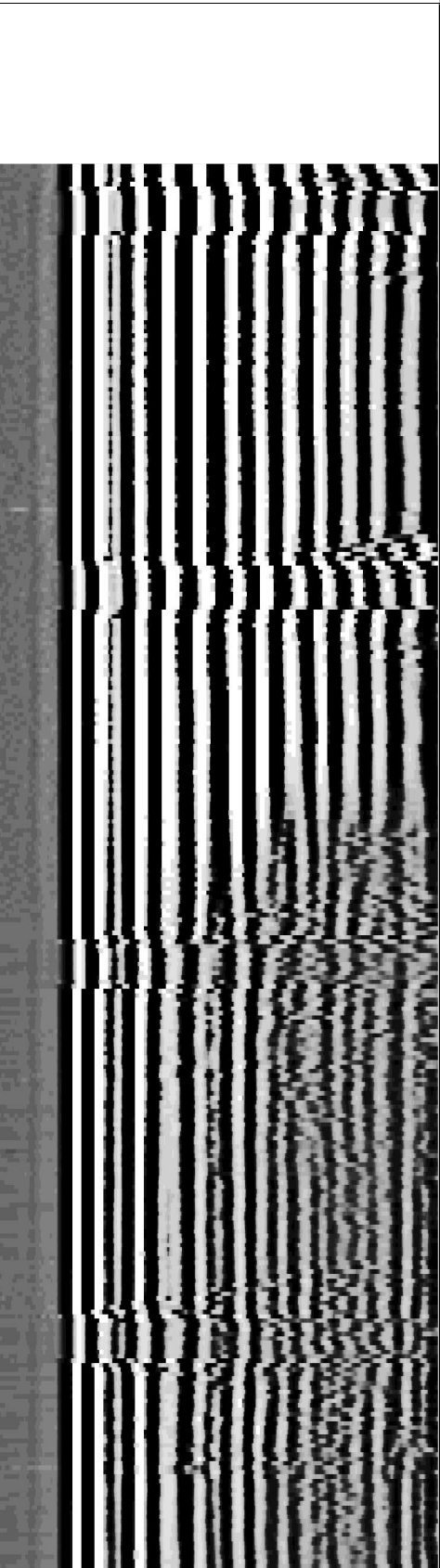
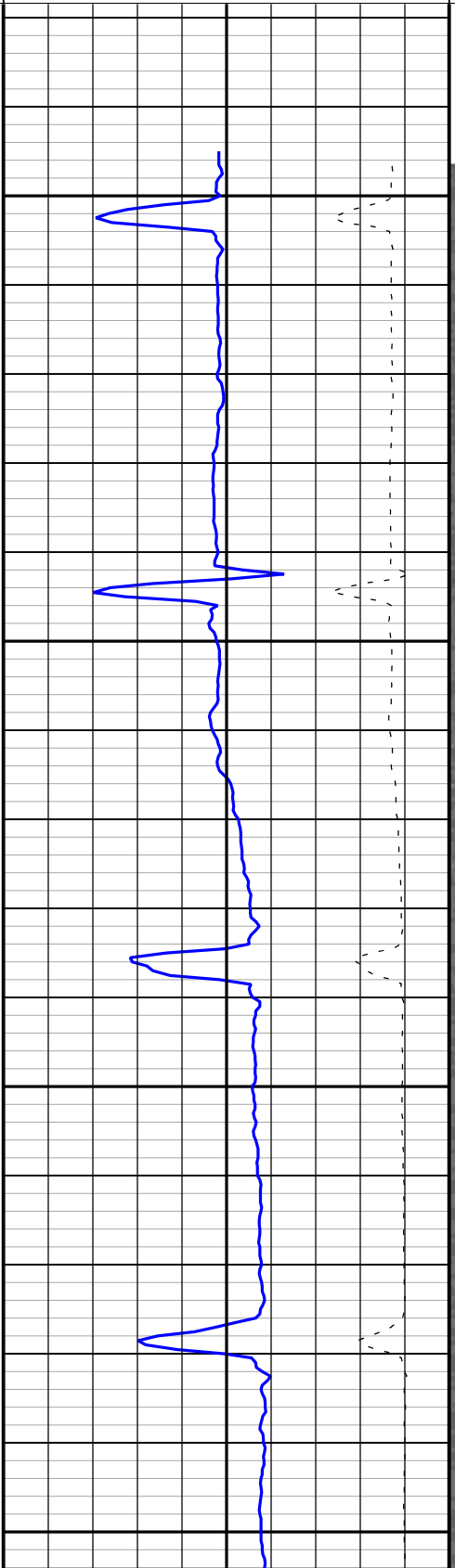
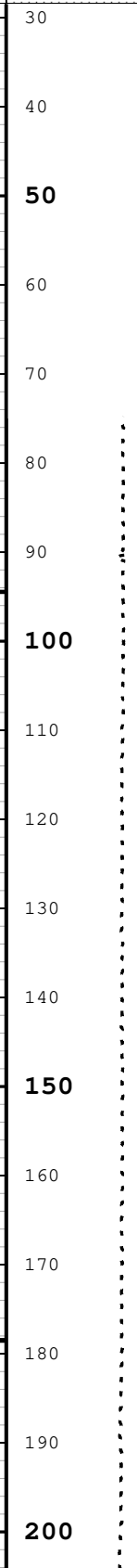
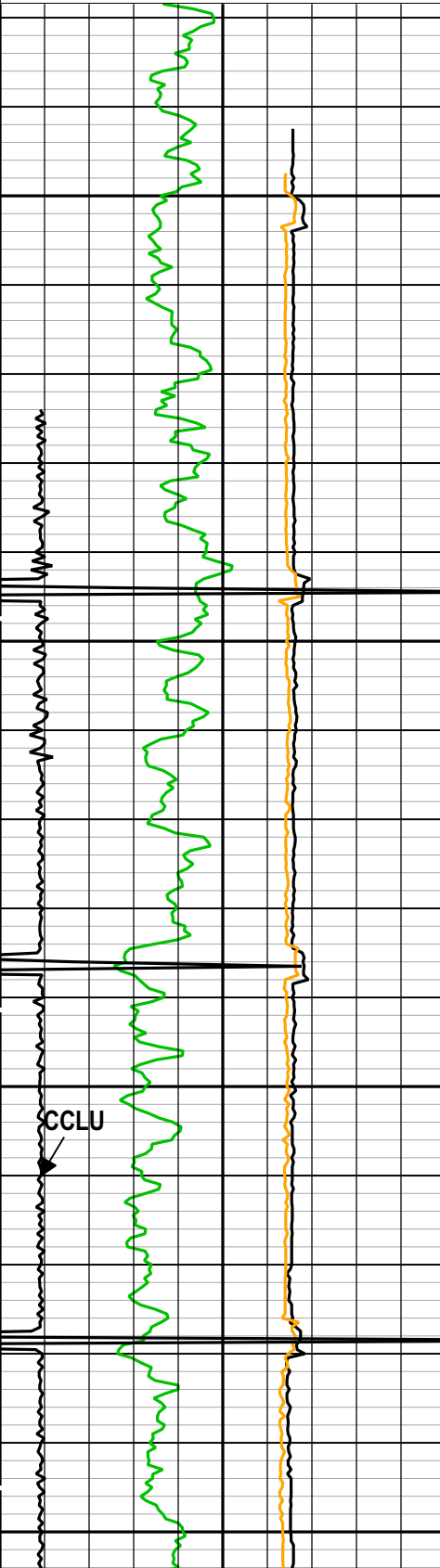
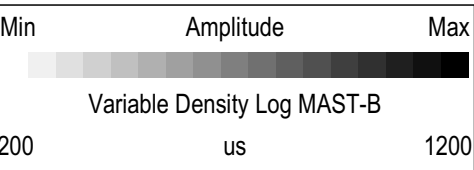
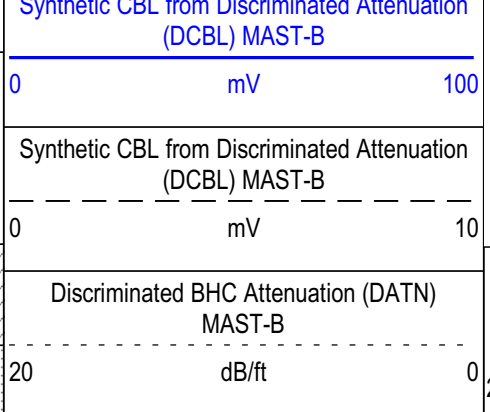
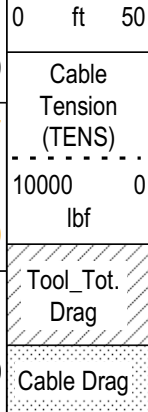
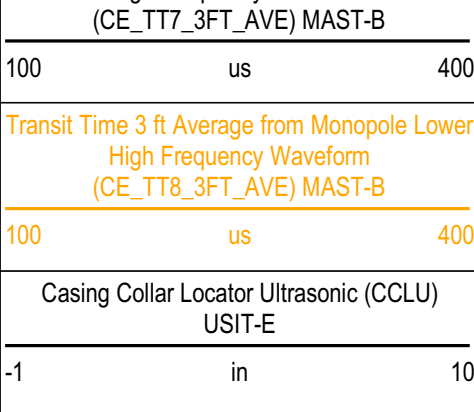
All depths are referenced to toolstring zero

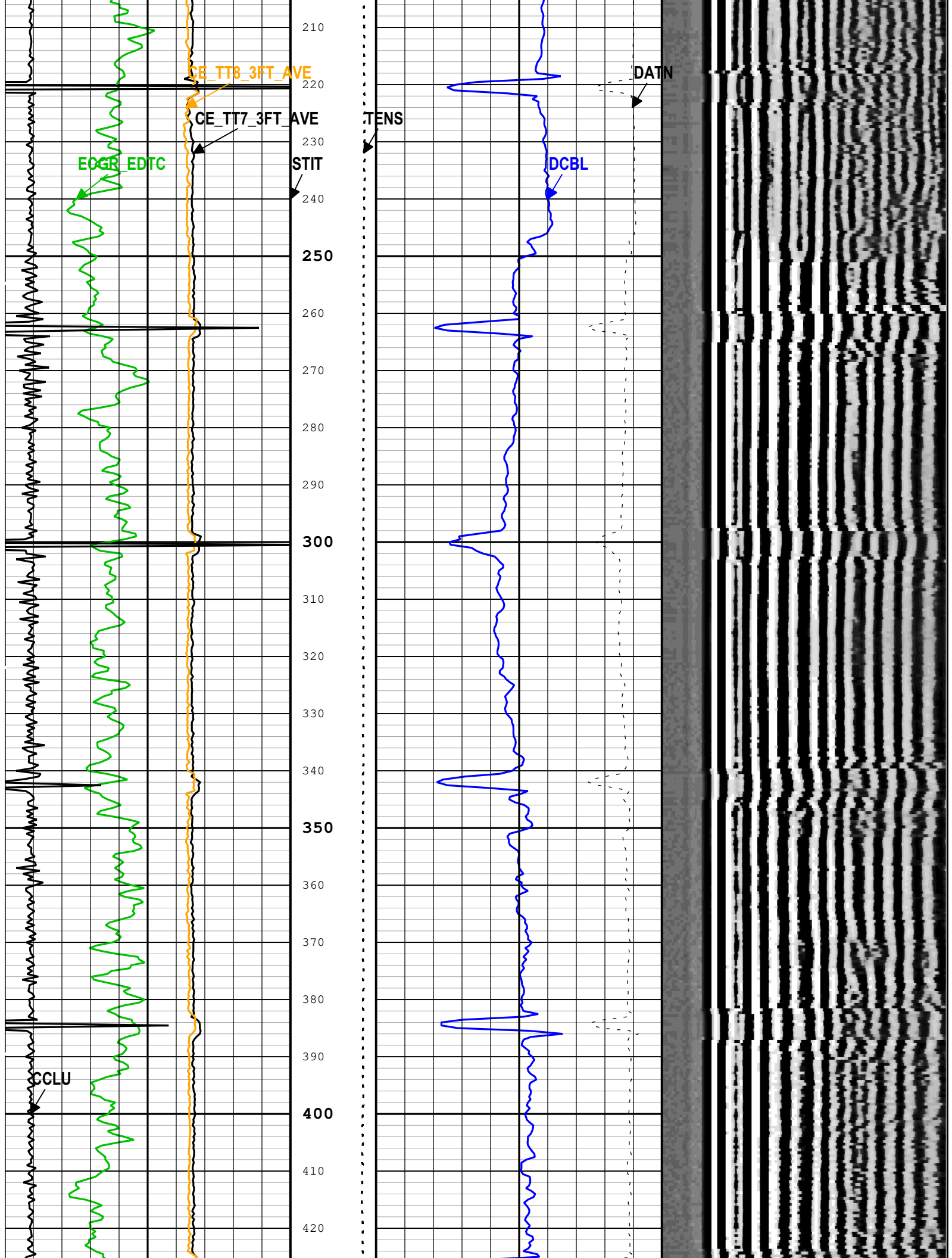
Log Company:Occidental Petroleum Inc Well:Camenisch 2-15
One: Log[8]:Up:S014

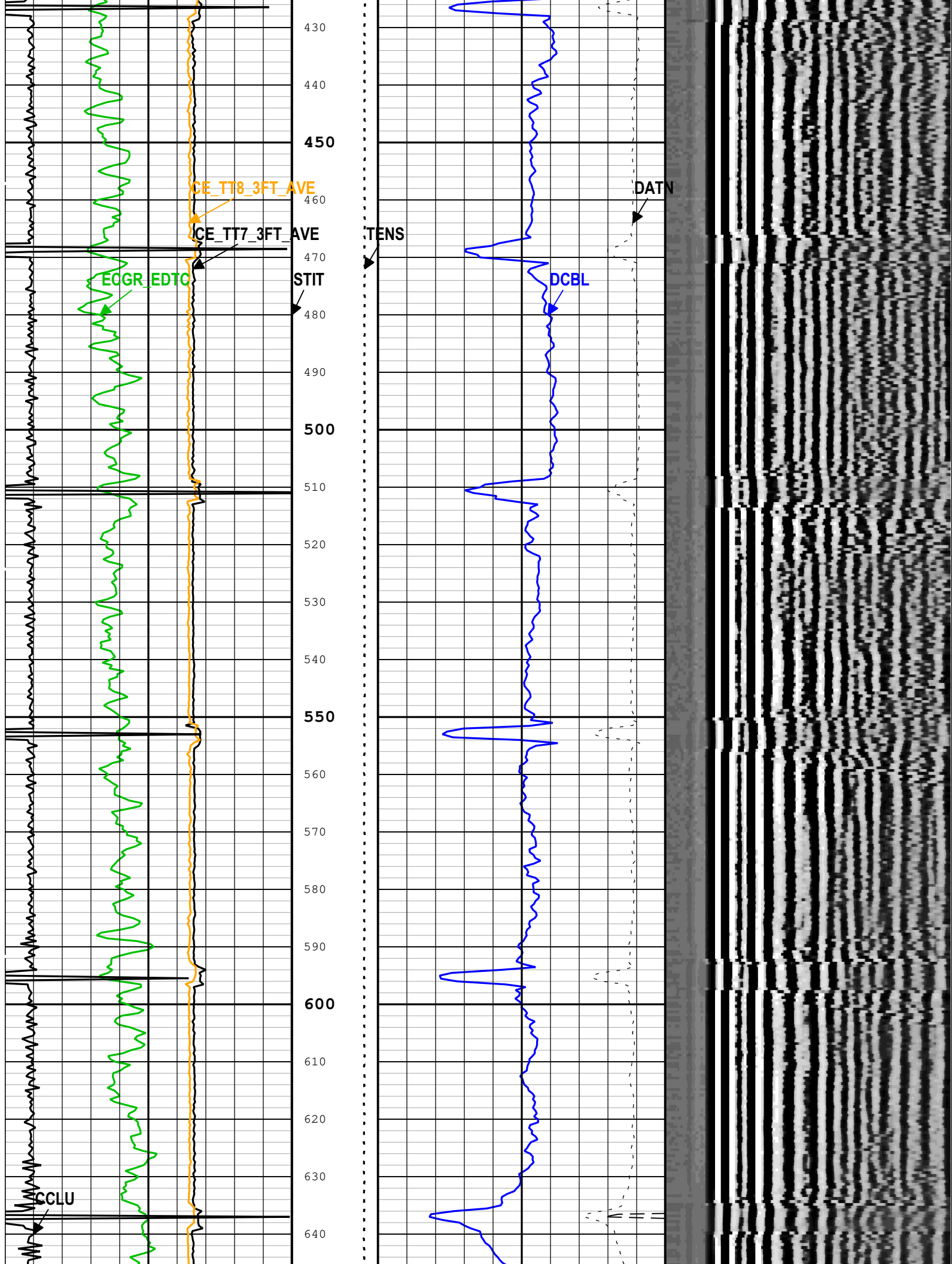
Description: MAST_CE_DCBL_3050 Format: Log (MAST_CE_DCBL_3050) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 11-Apr-2022 12:46:36

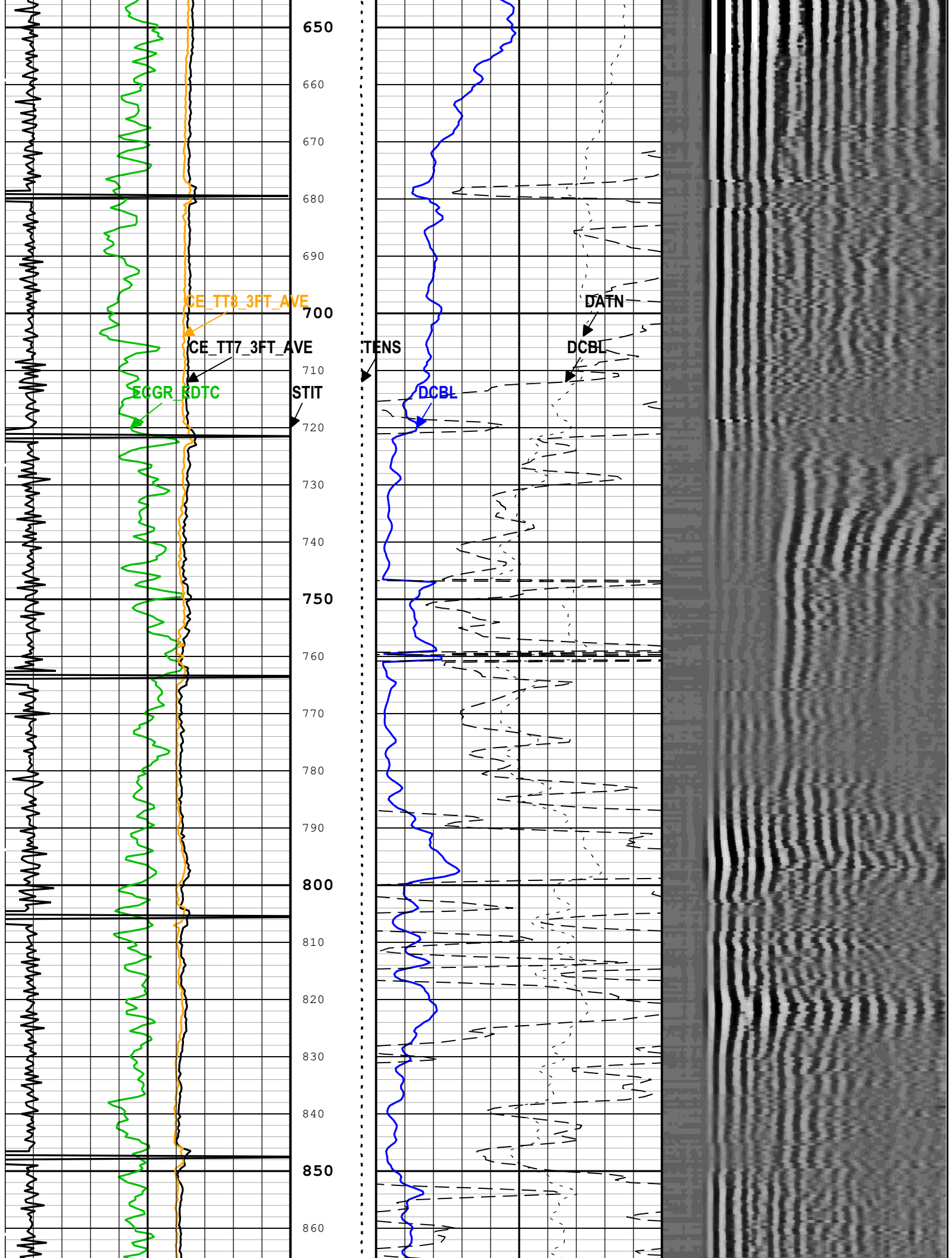
TIME_1900 - Time Marked every 60.00 (s)

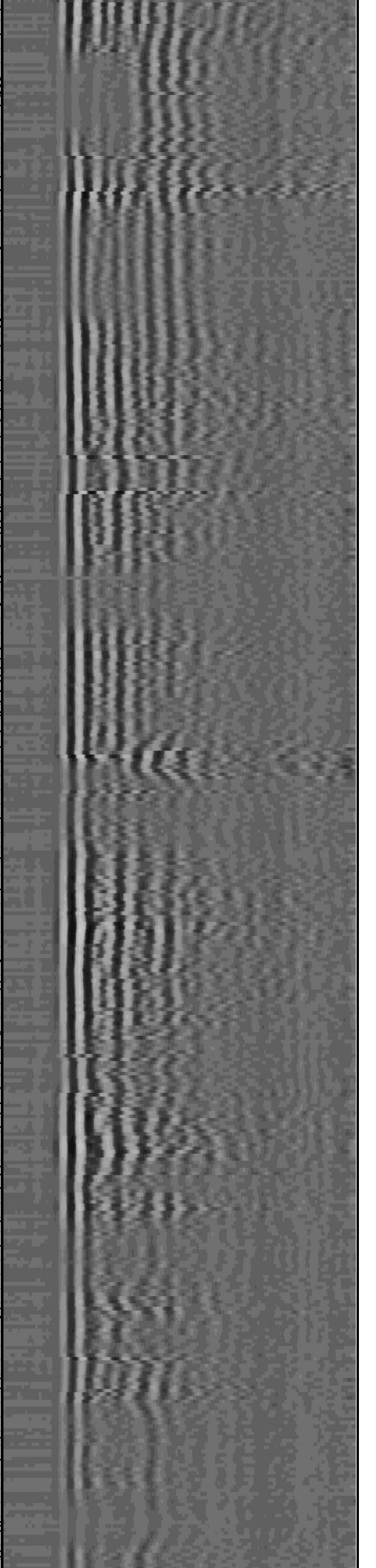
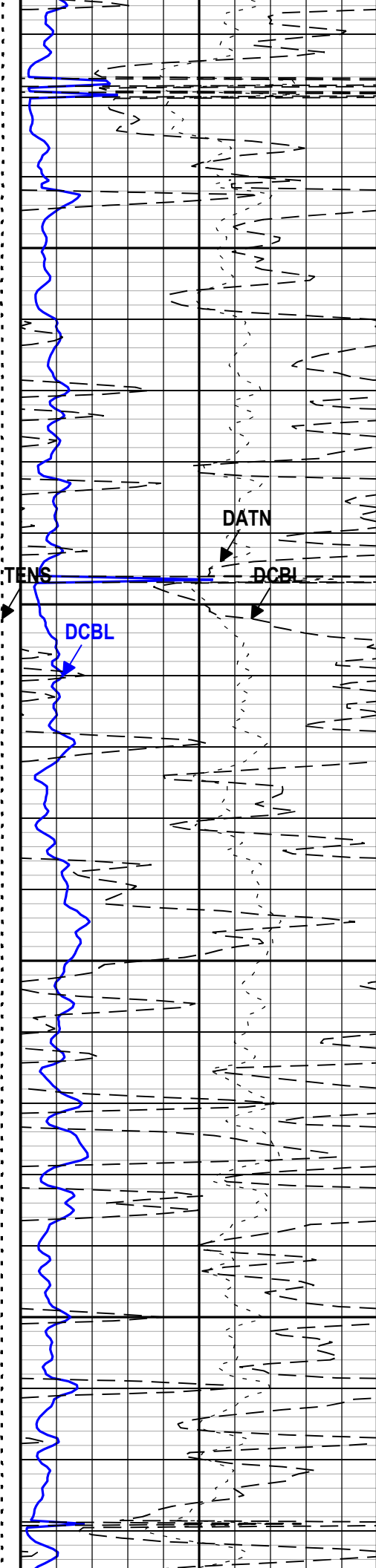
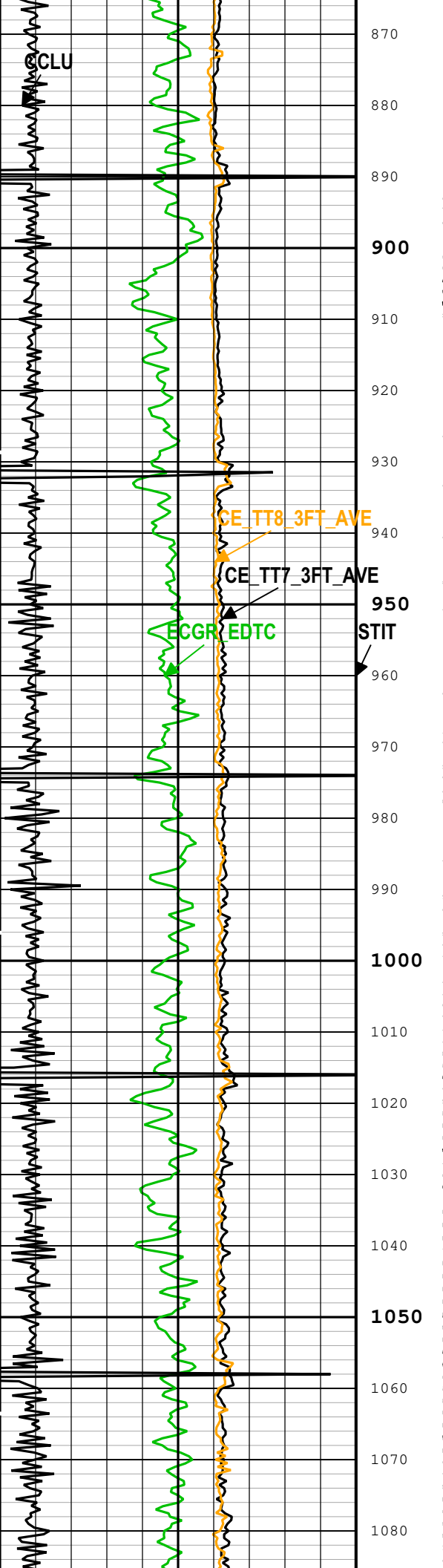
Gamma Ray (ECGR_EDTC) EDTC-B		
0	gAPI	150
Transit Time 3 ft Average from Monopole Upper High Frequency Waveform		
	Stuck Tool Indicator, Total (STIT)	

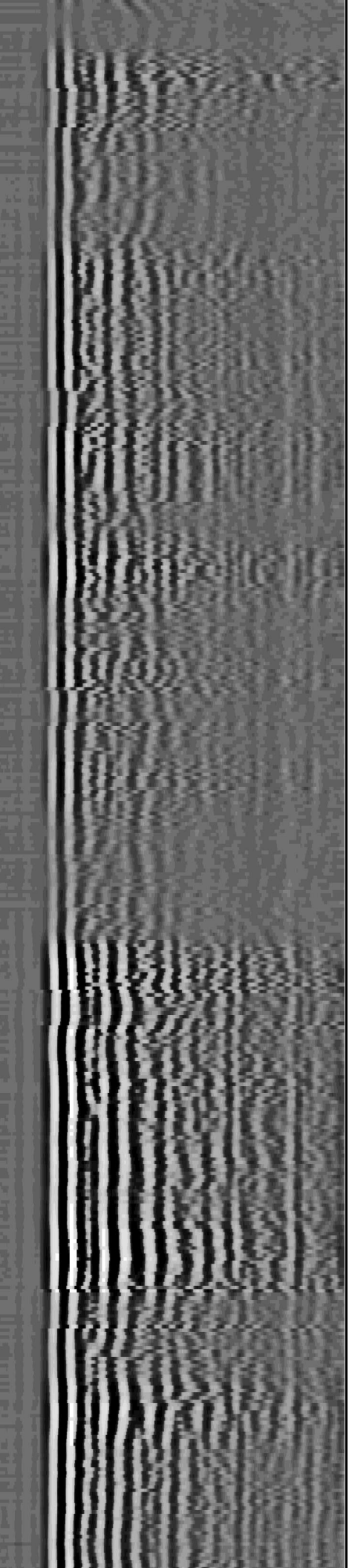
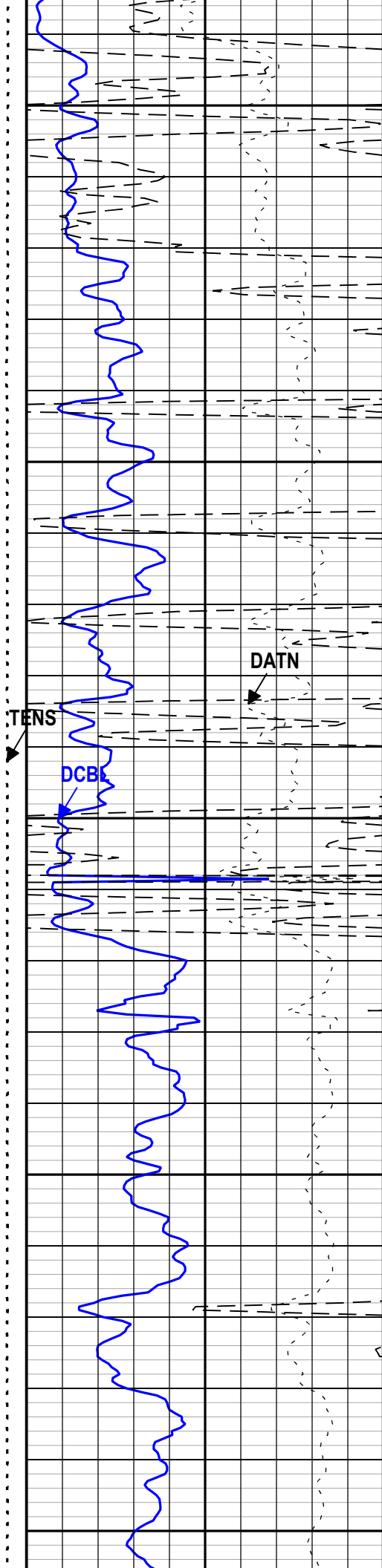
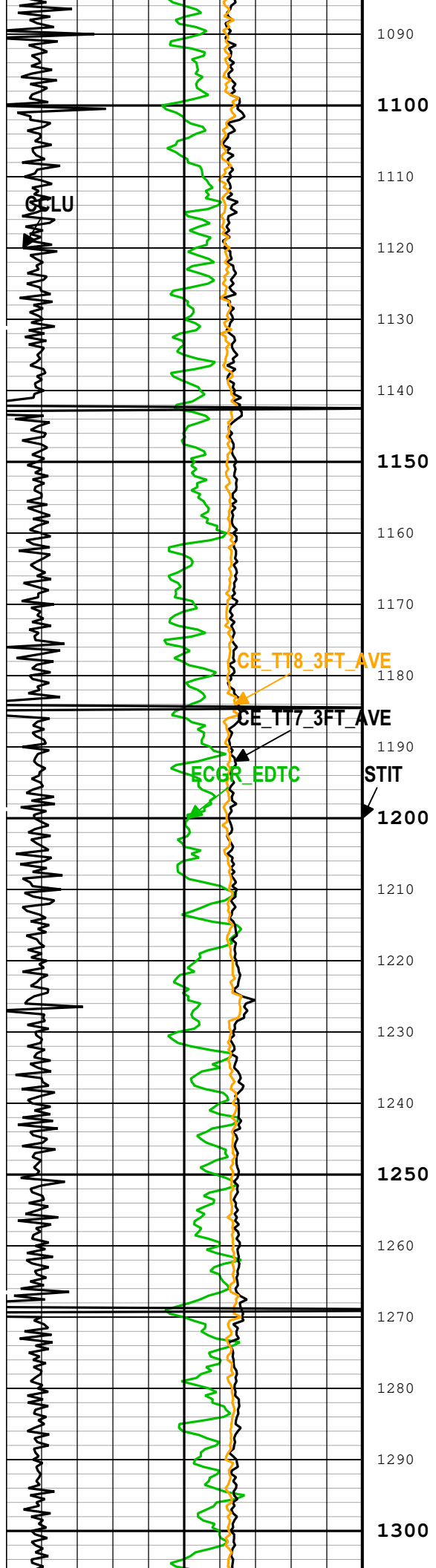


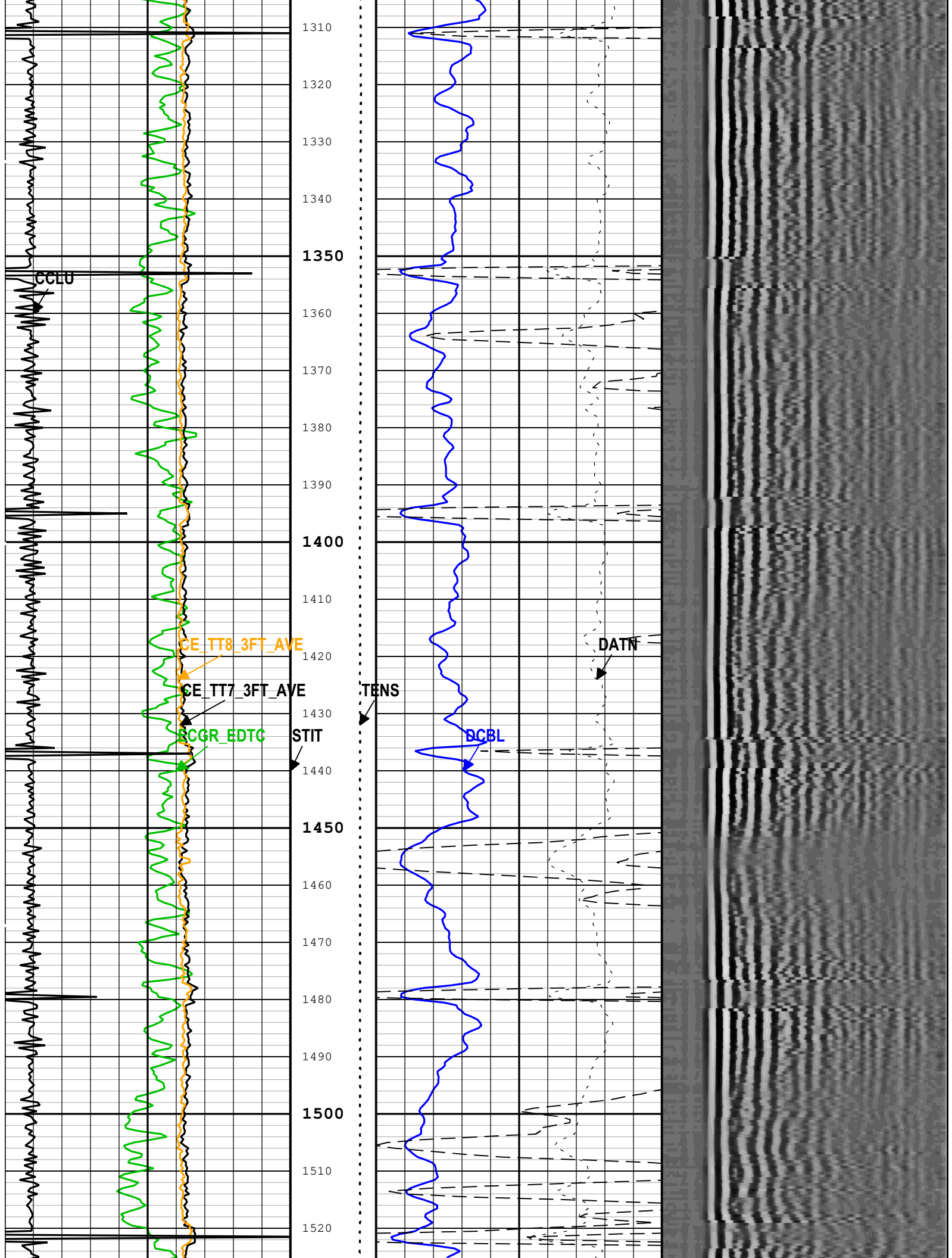


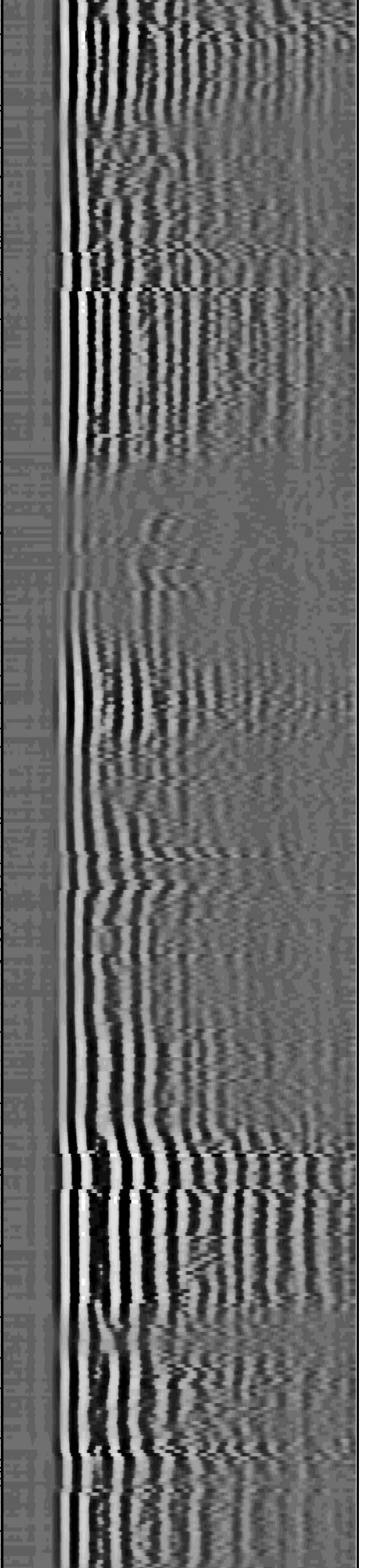
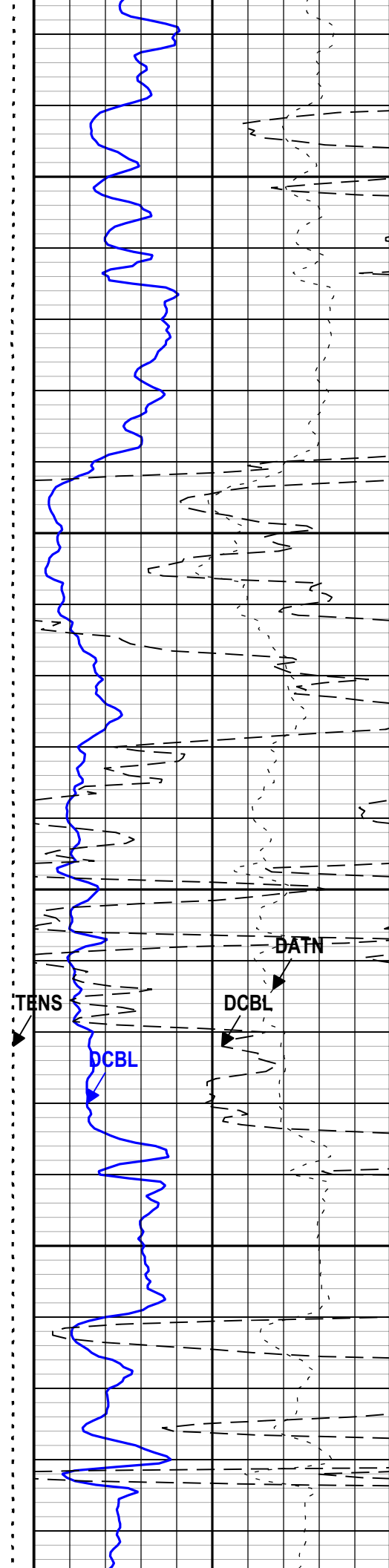
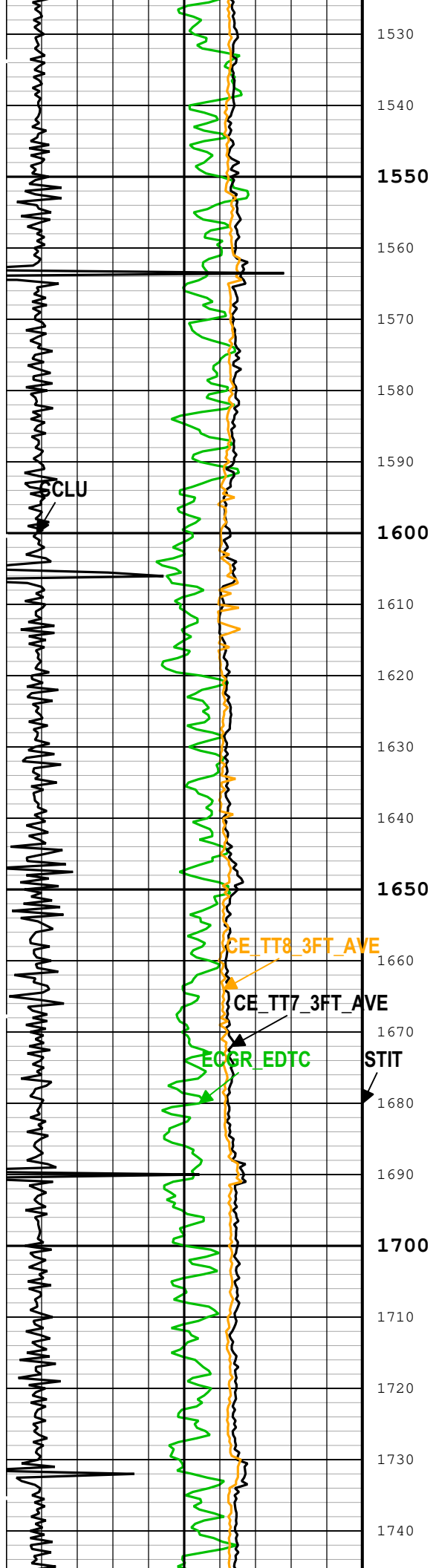


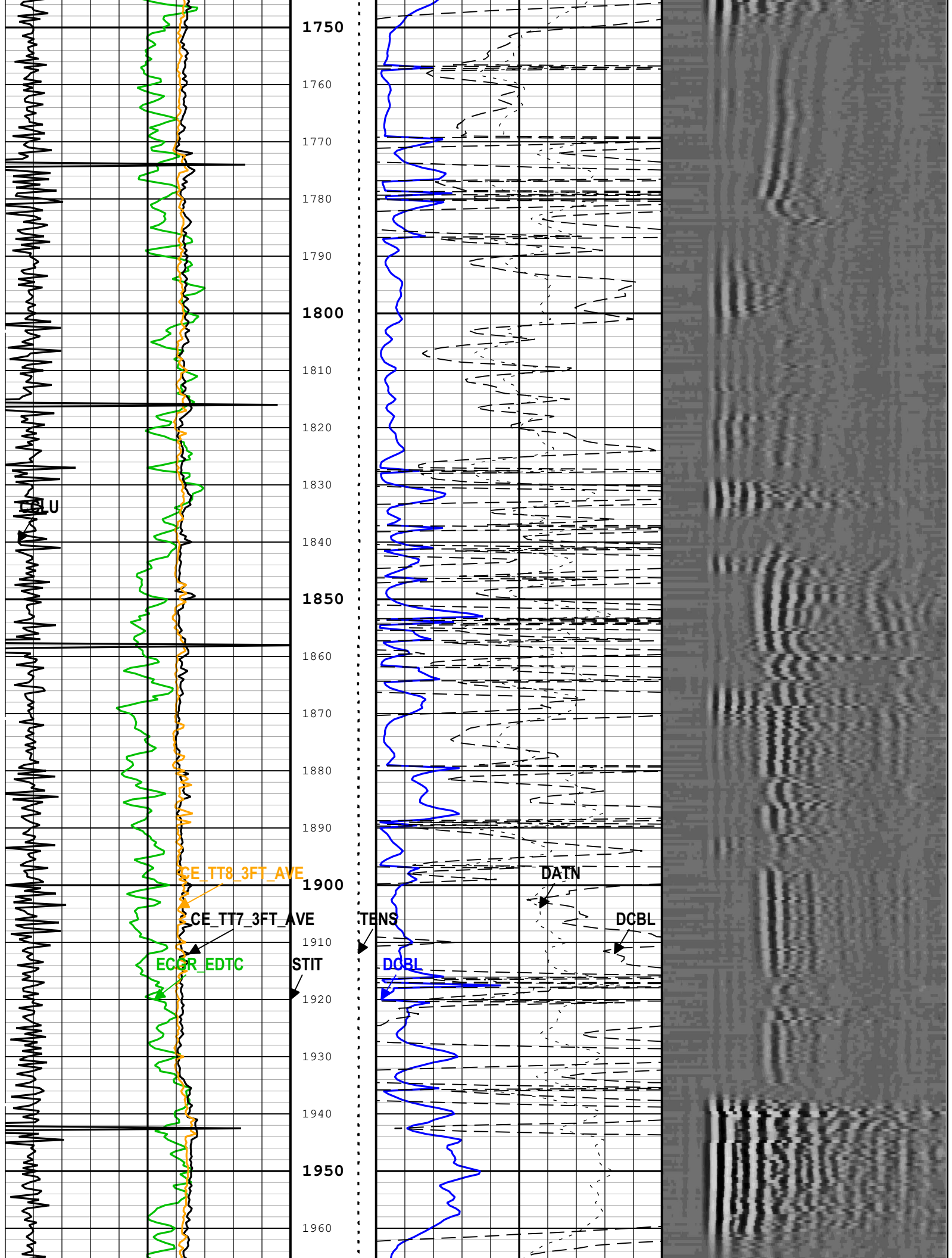


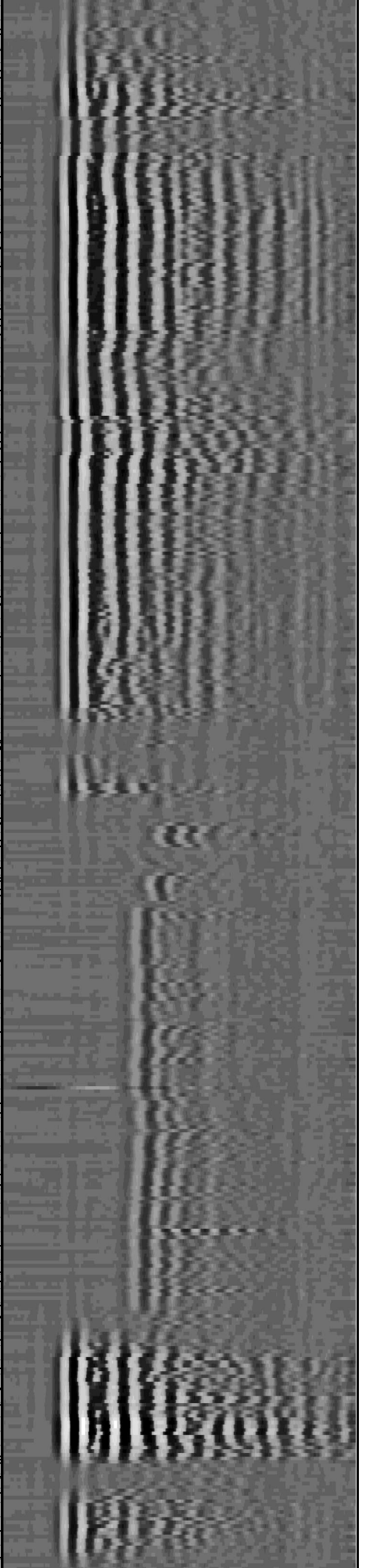
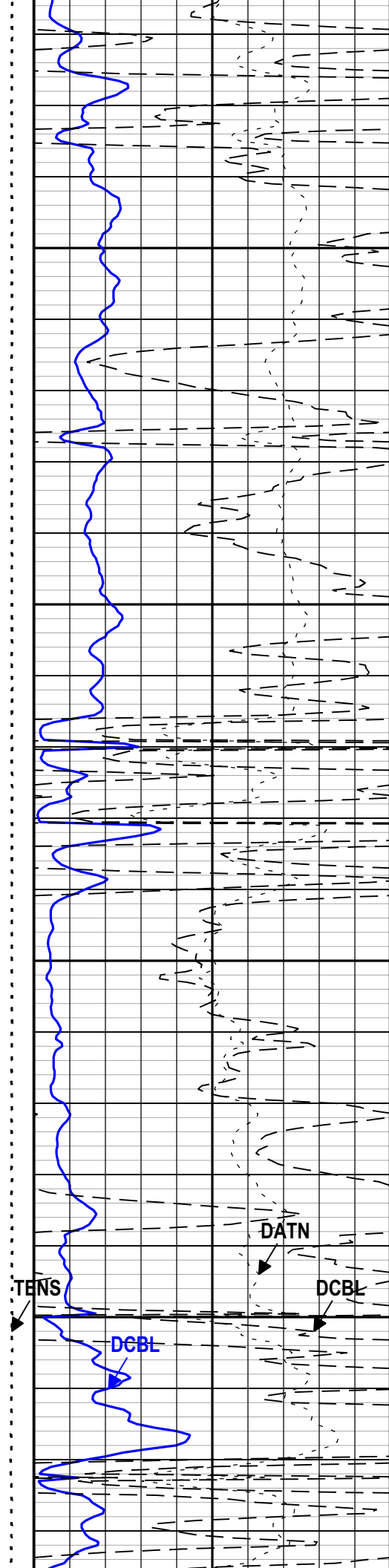
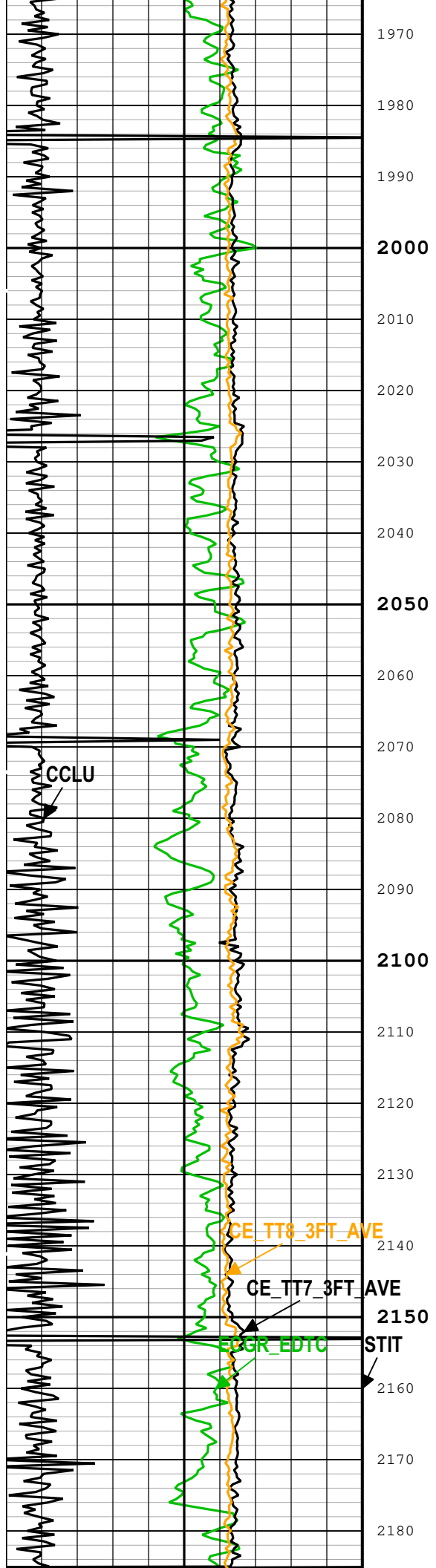


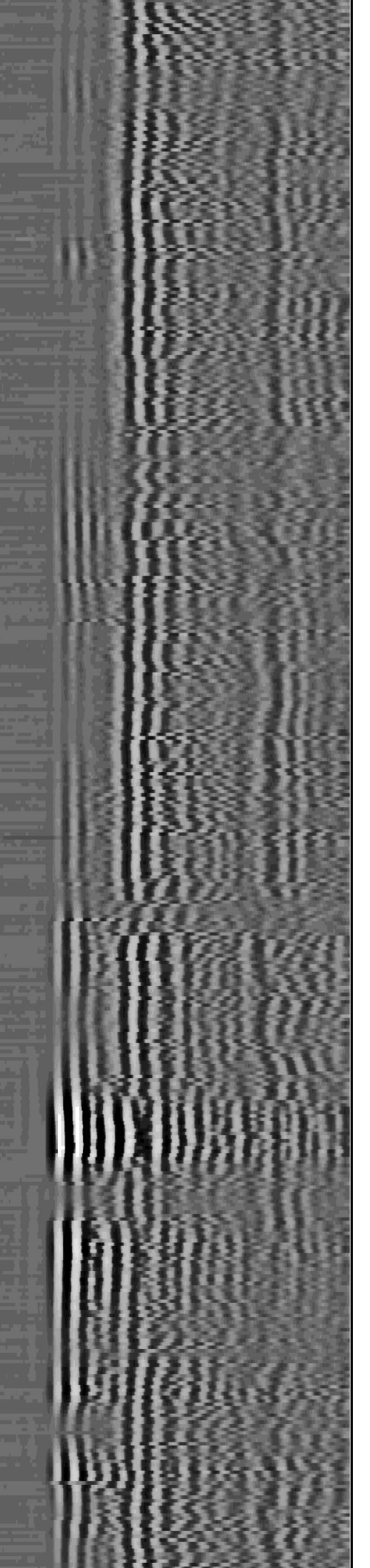
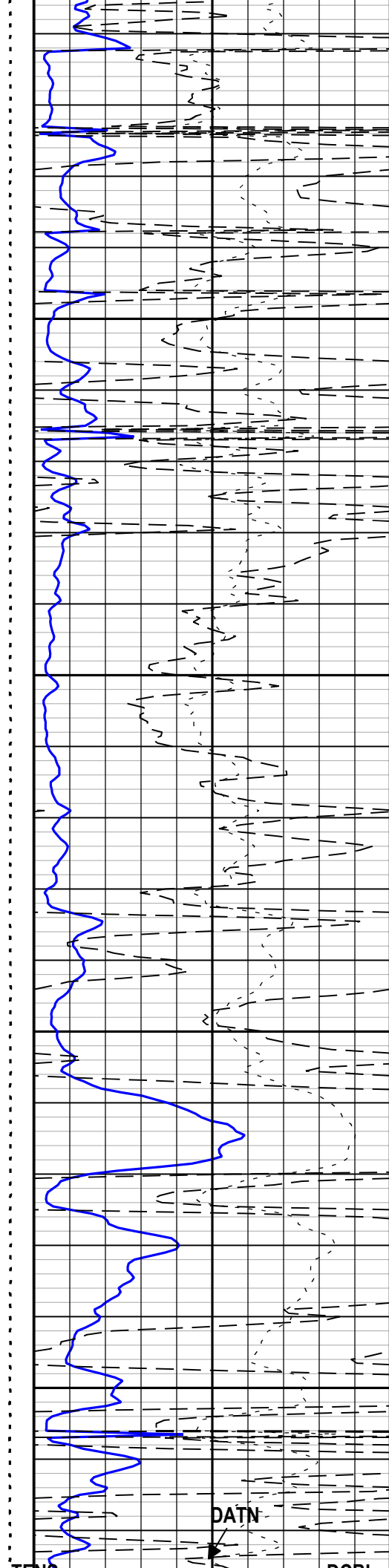
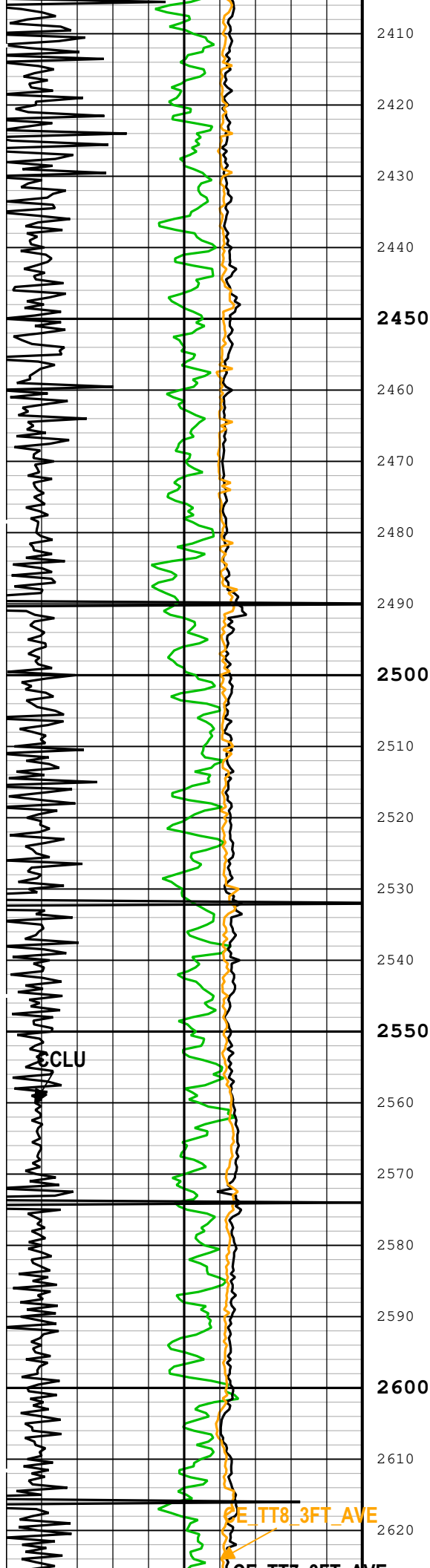


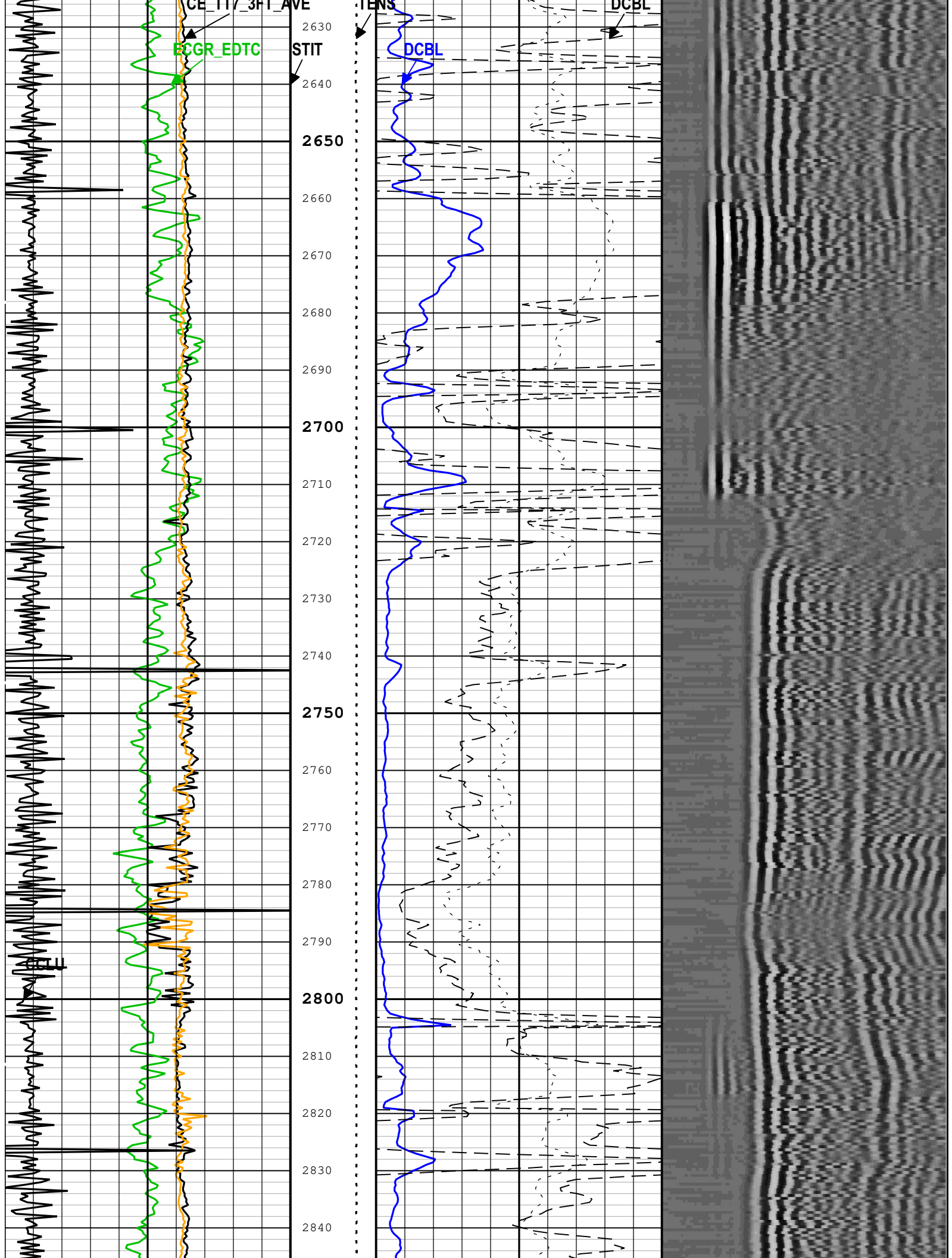


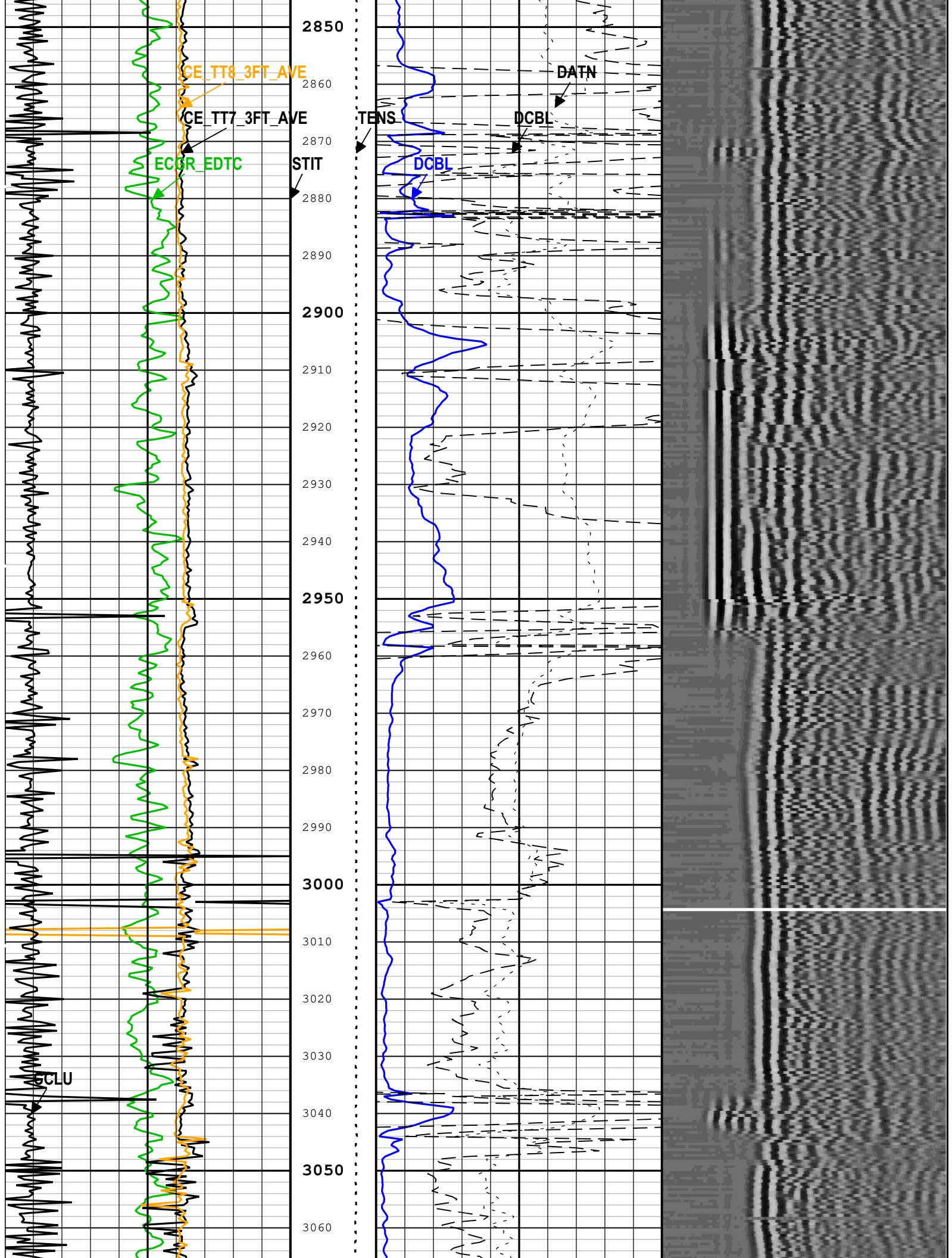


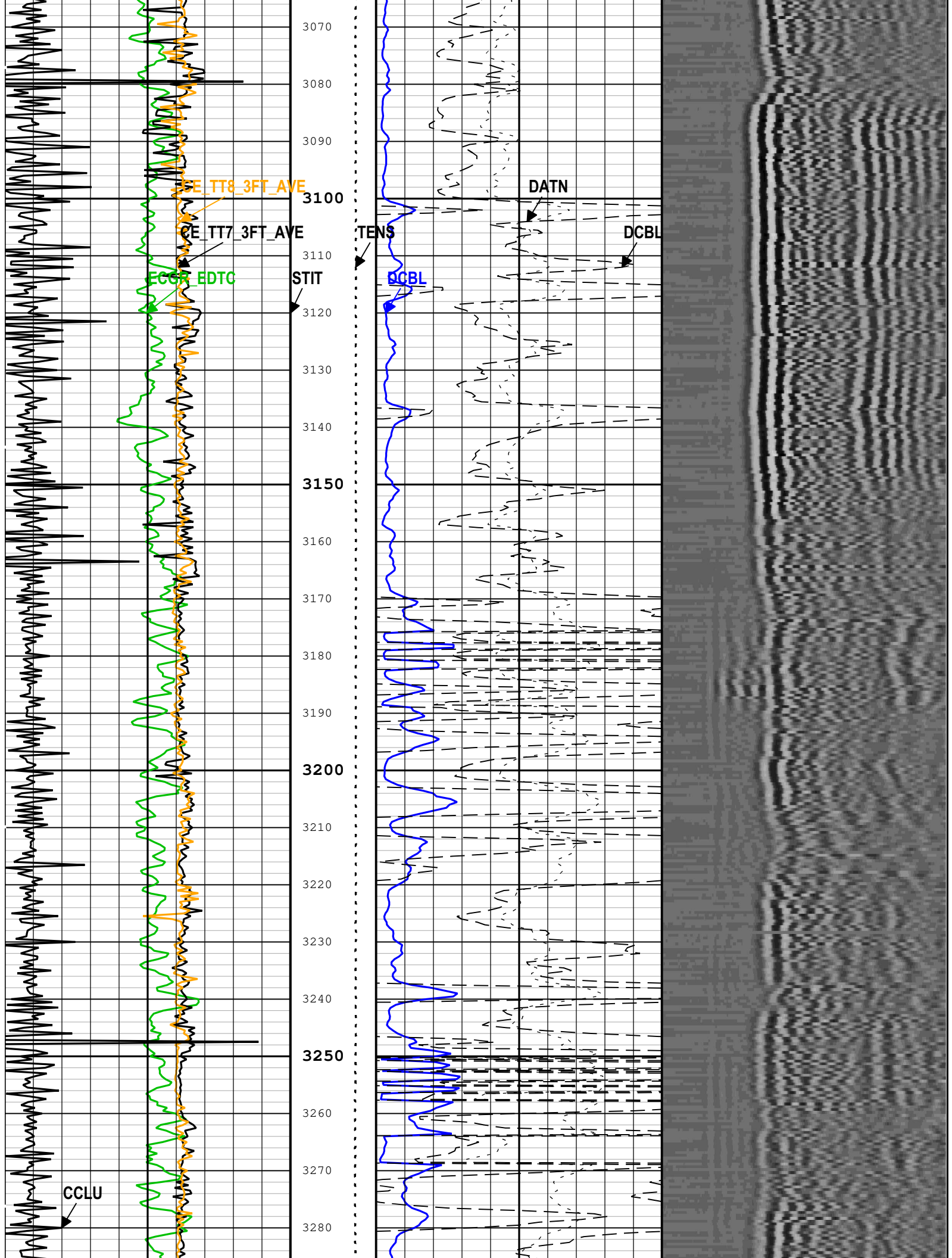


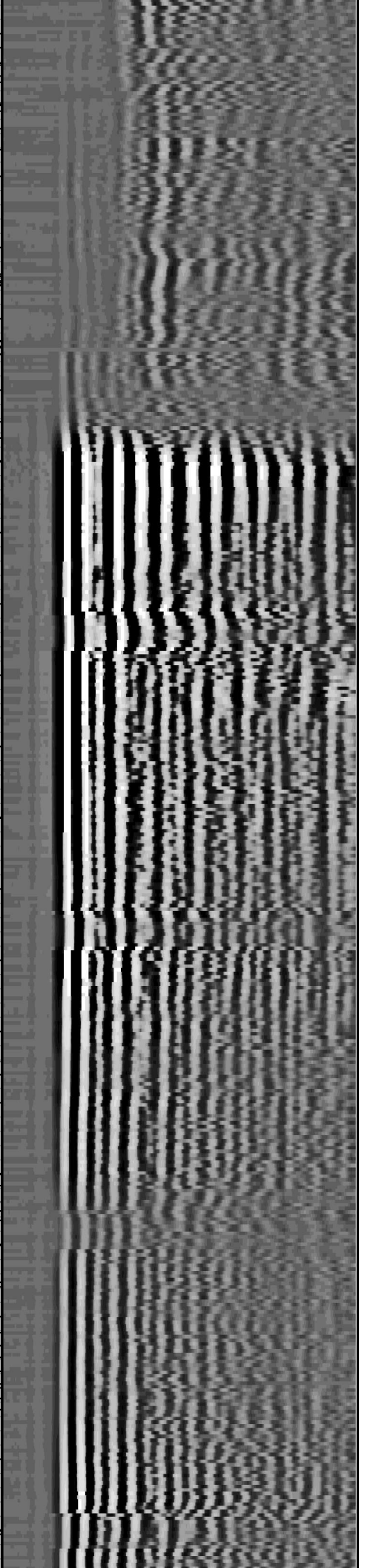
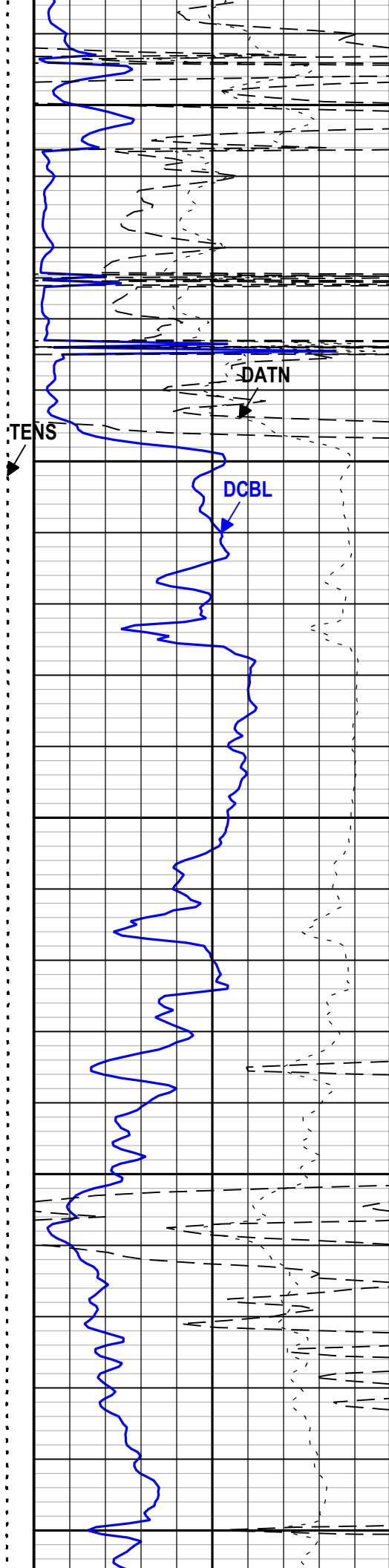
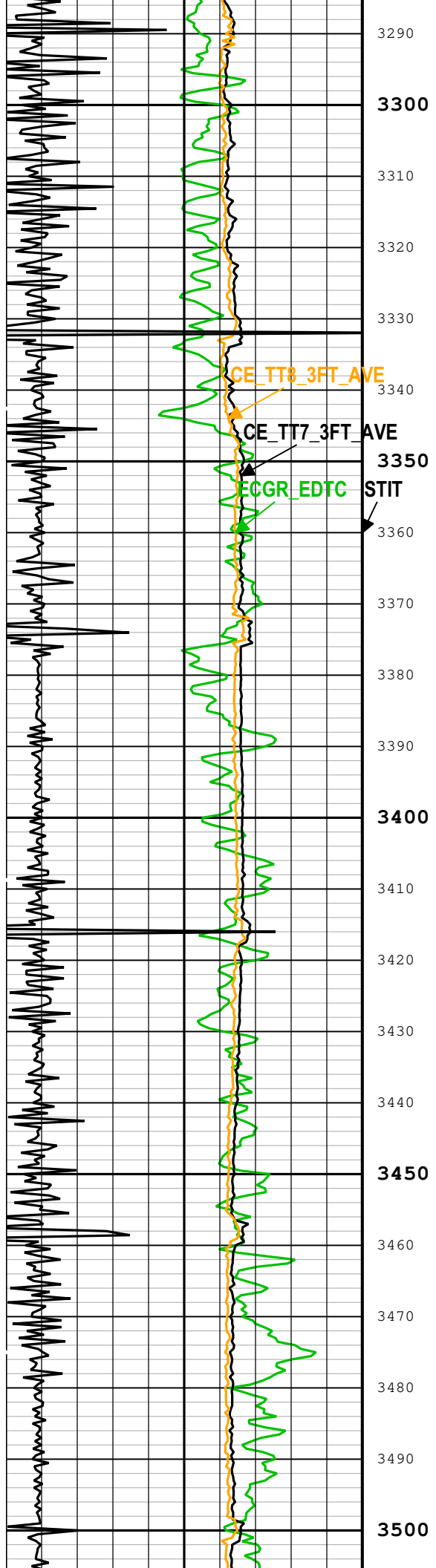


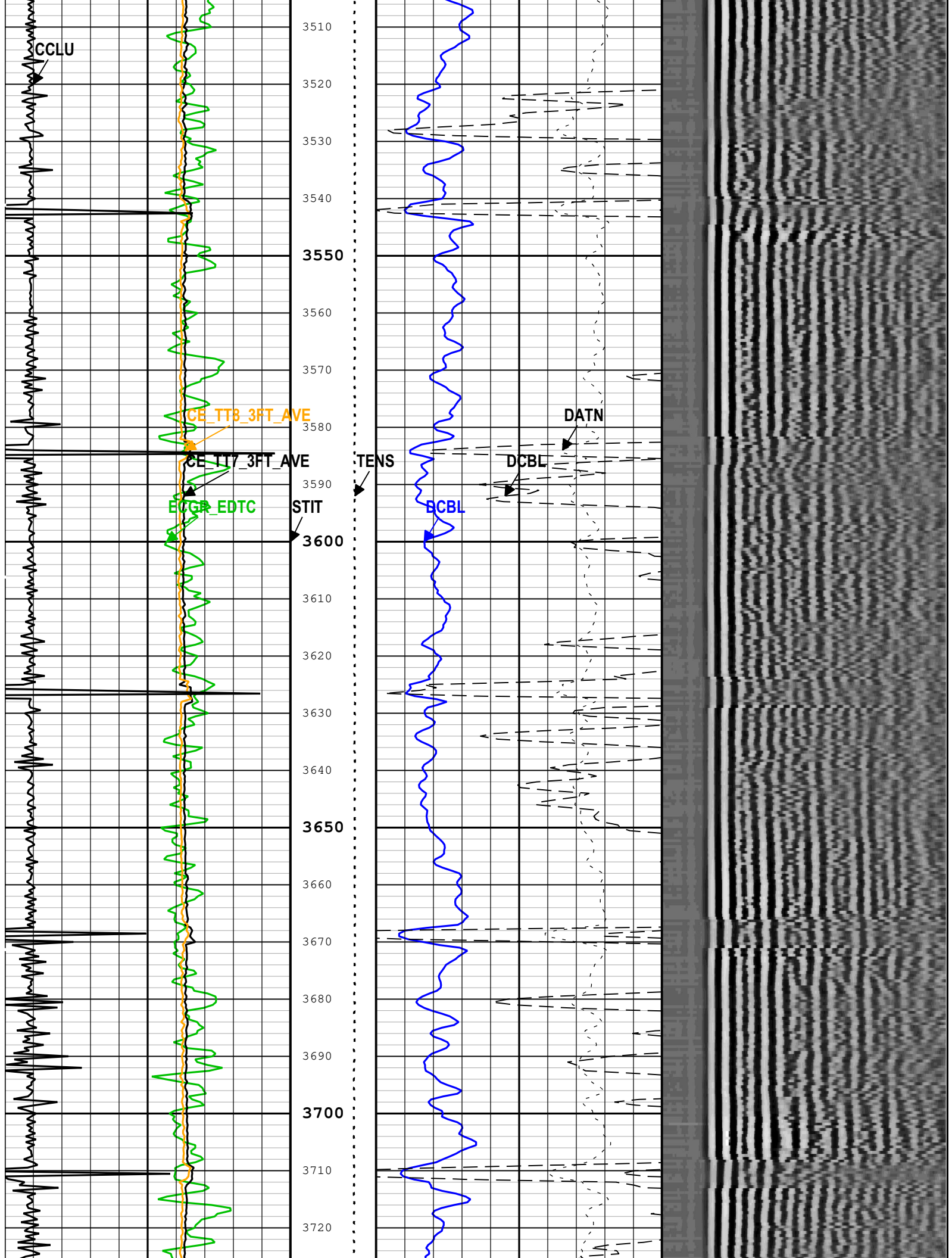


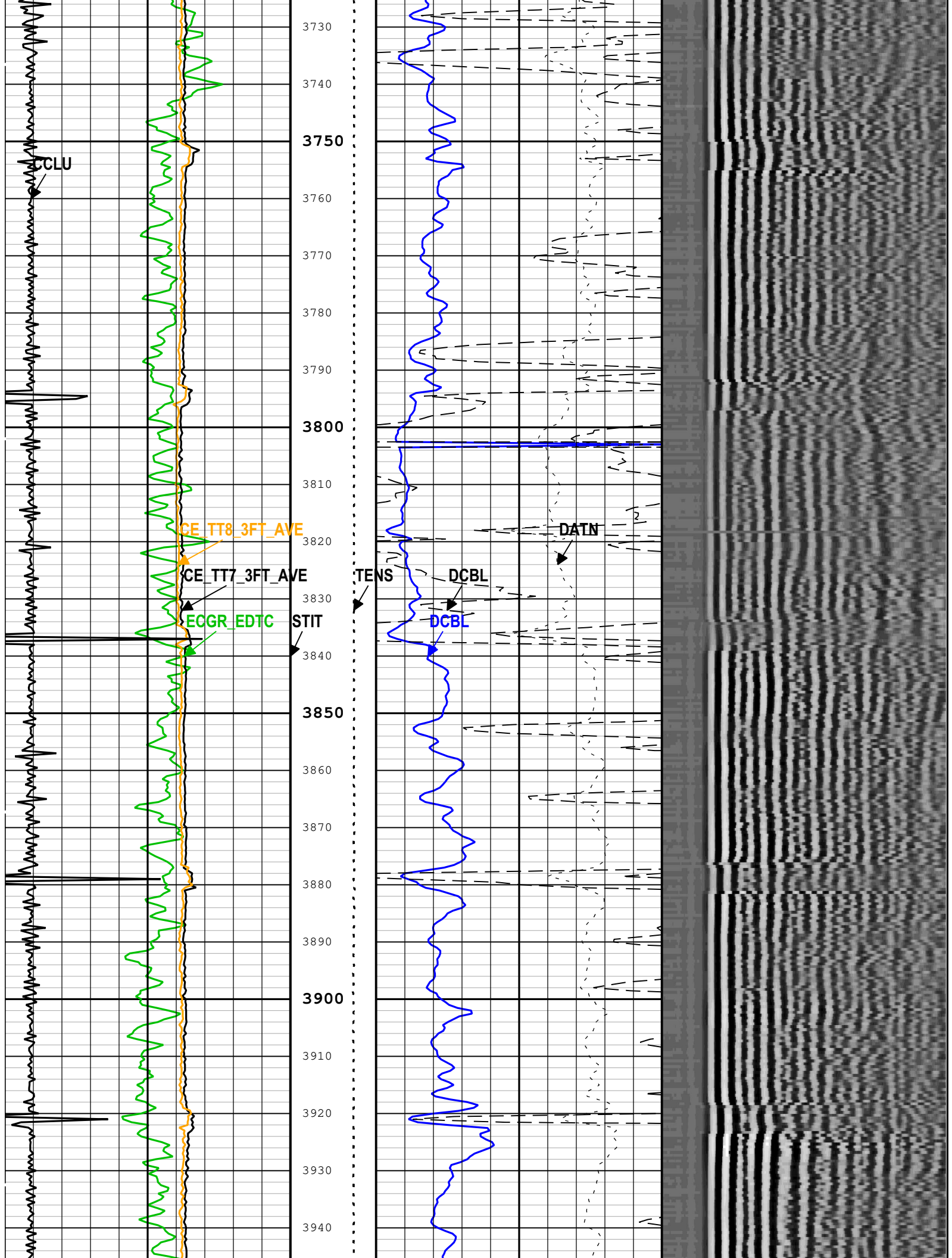


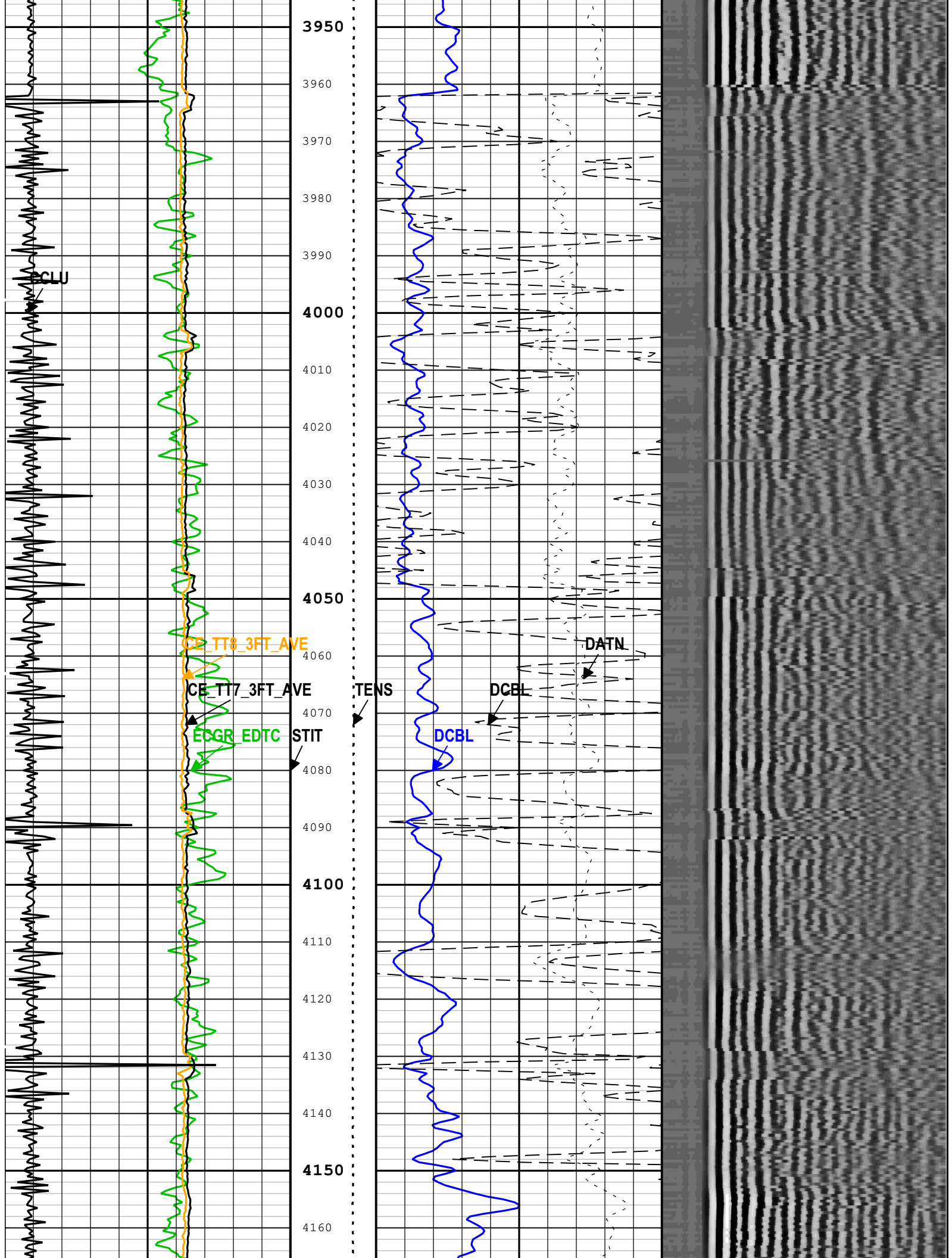


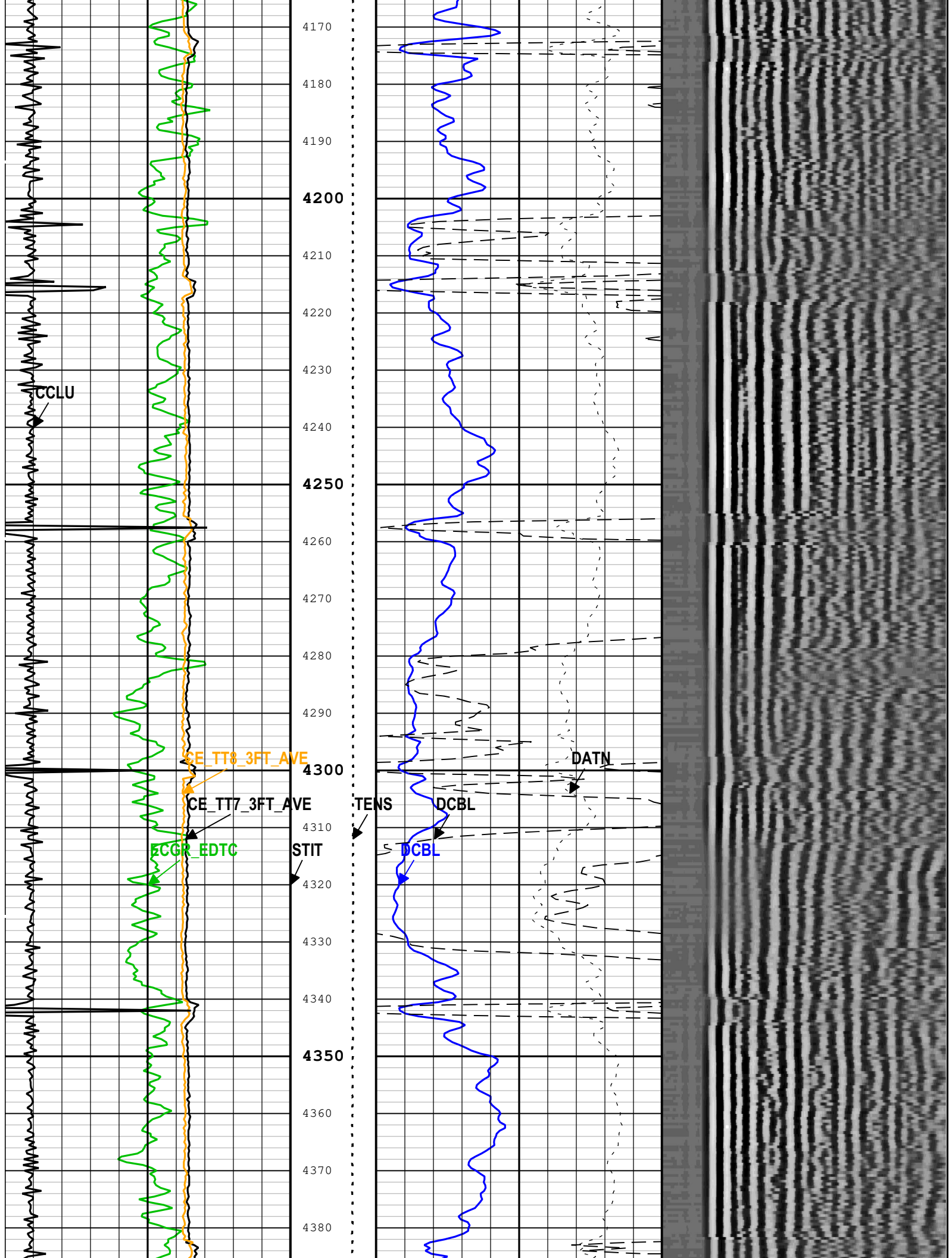


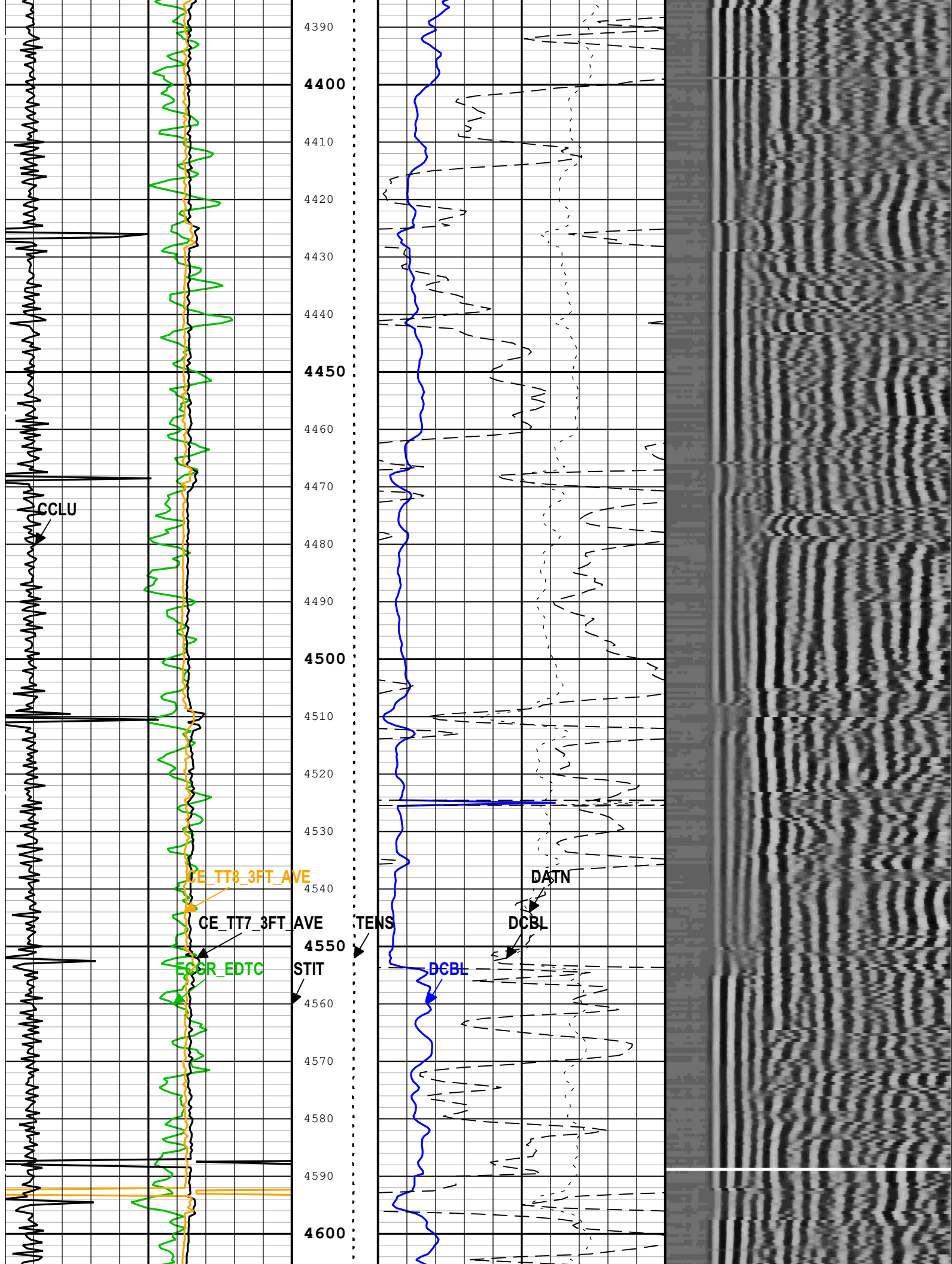


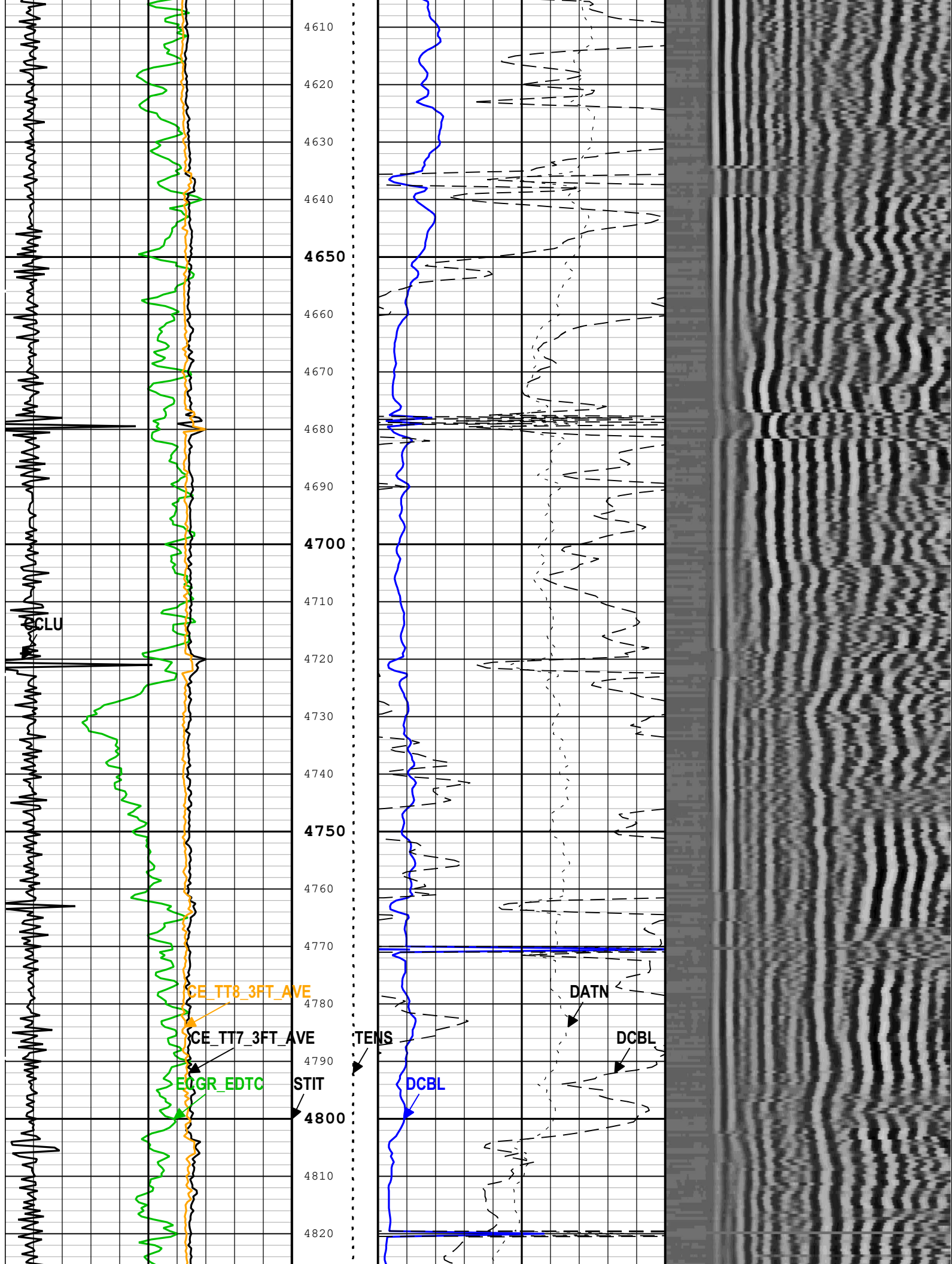


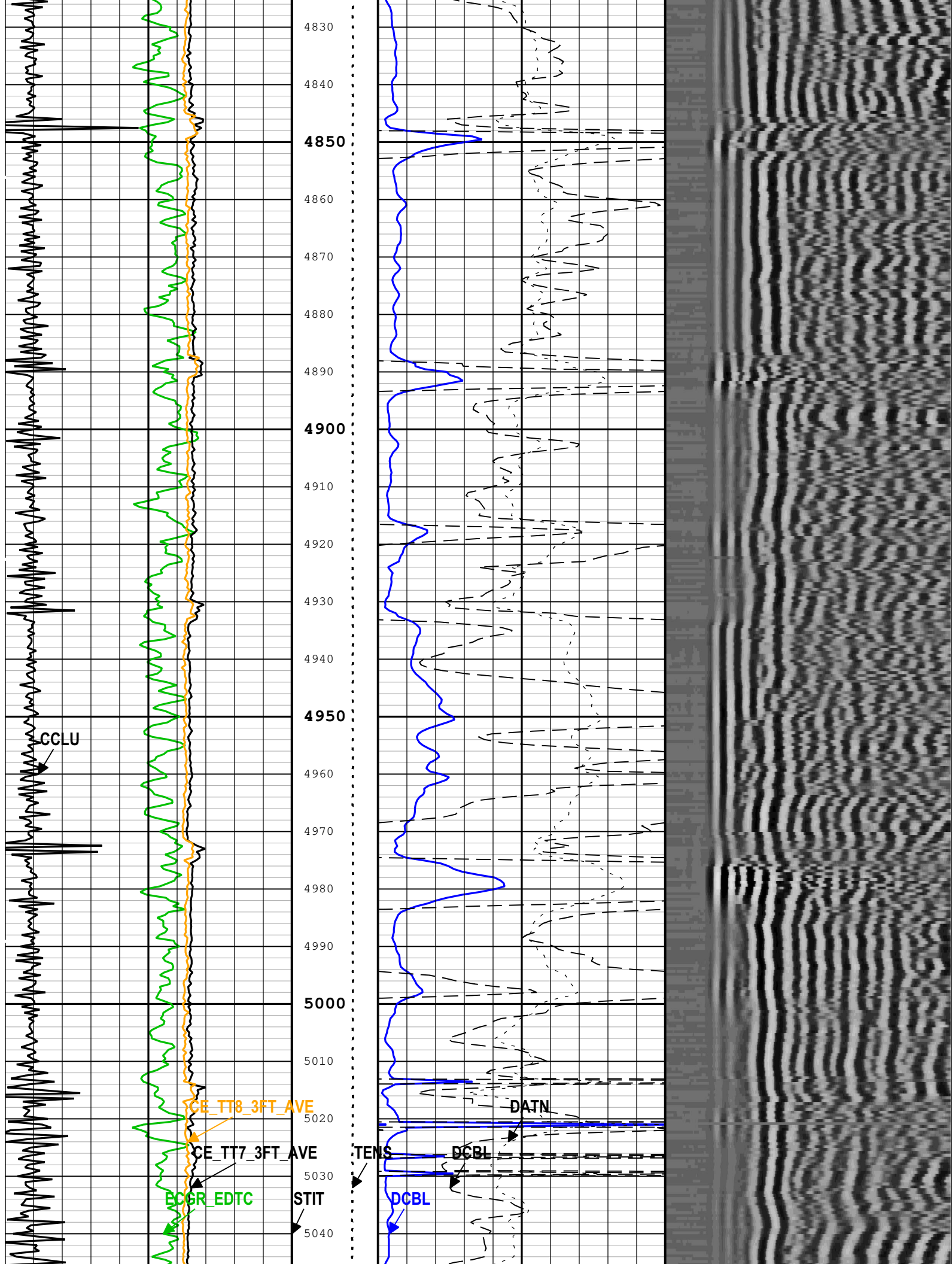


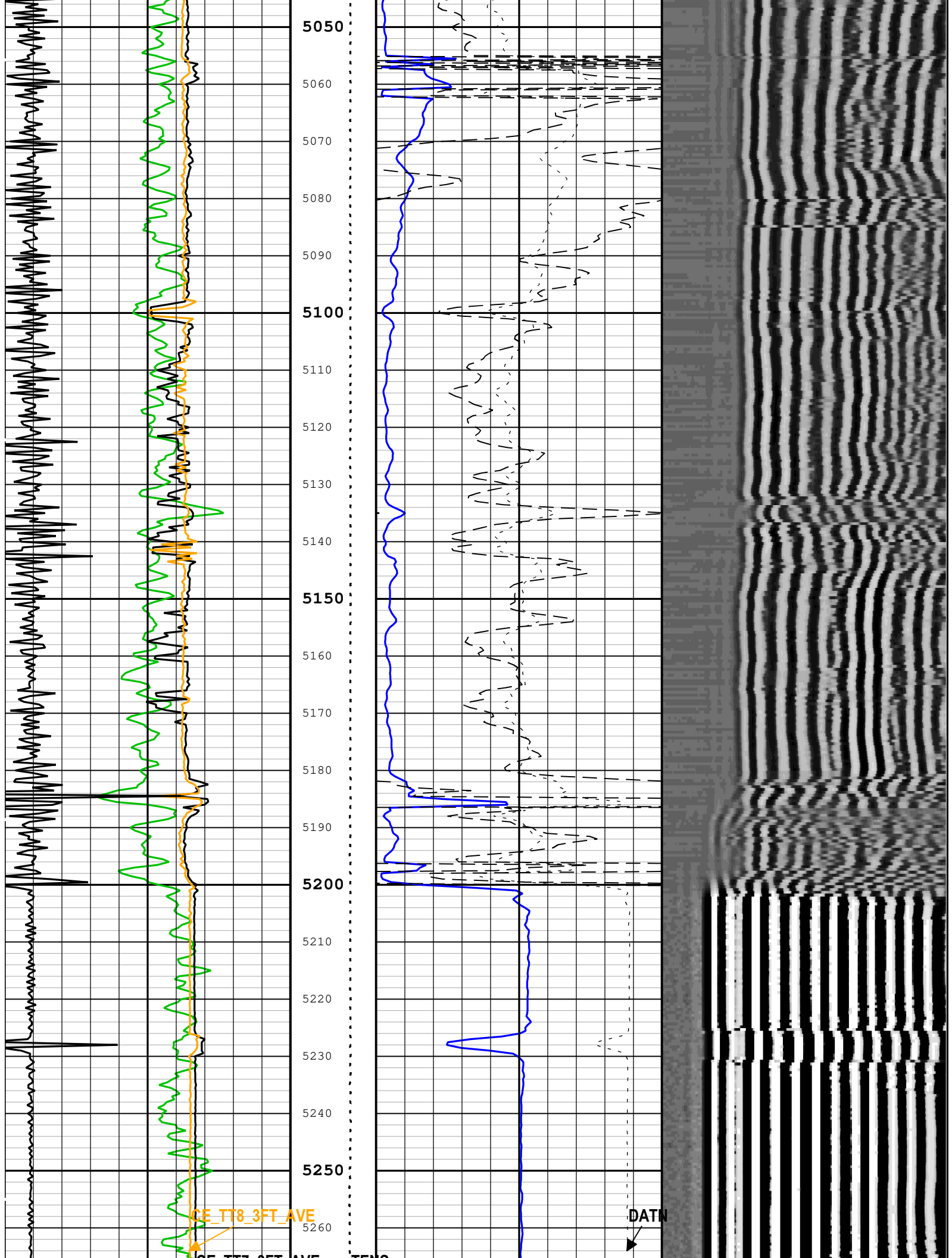


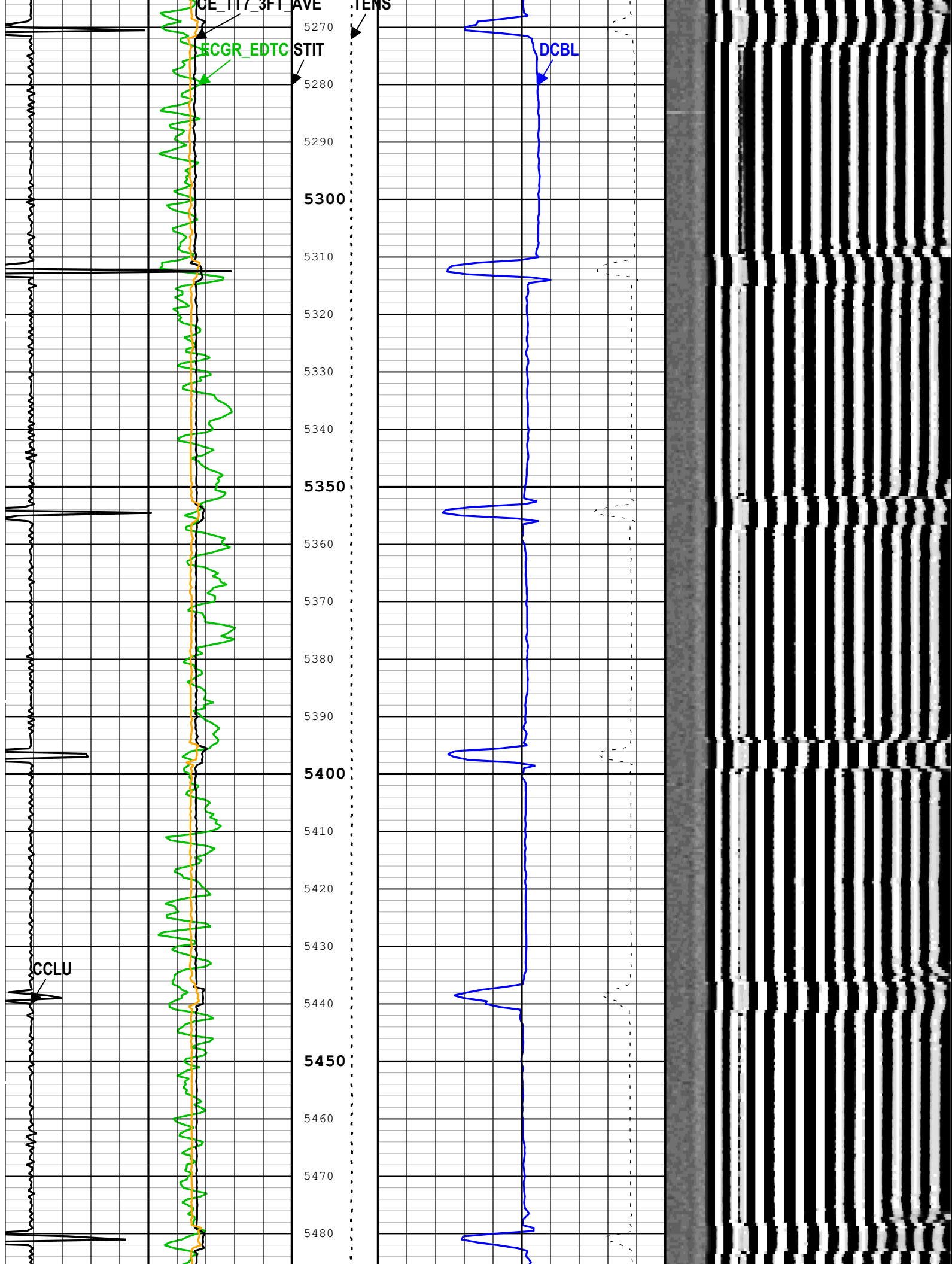


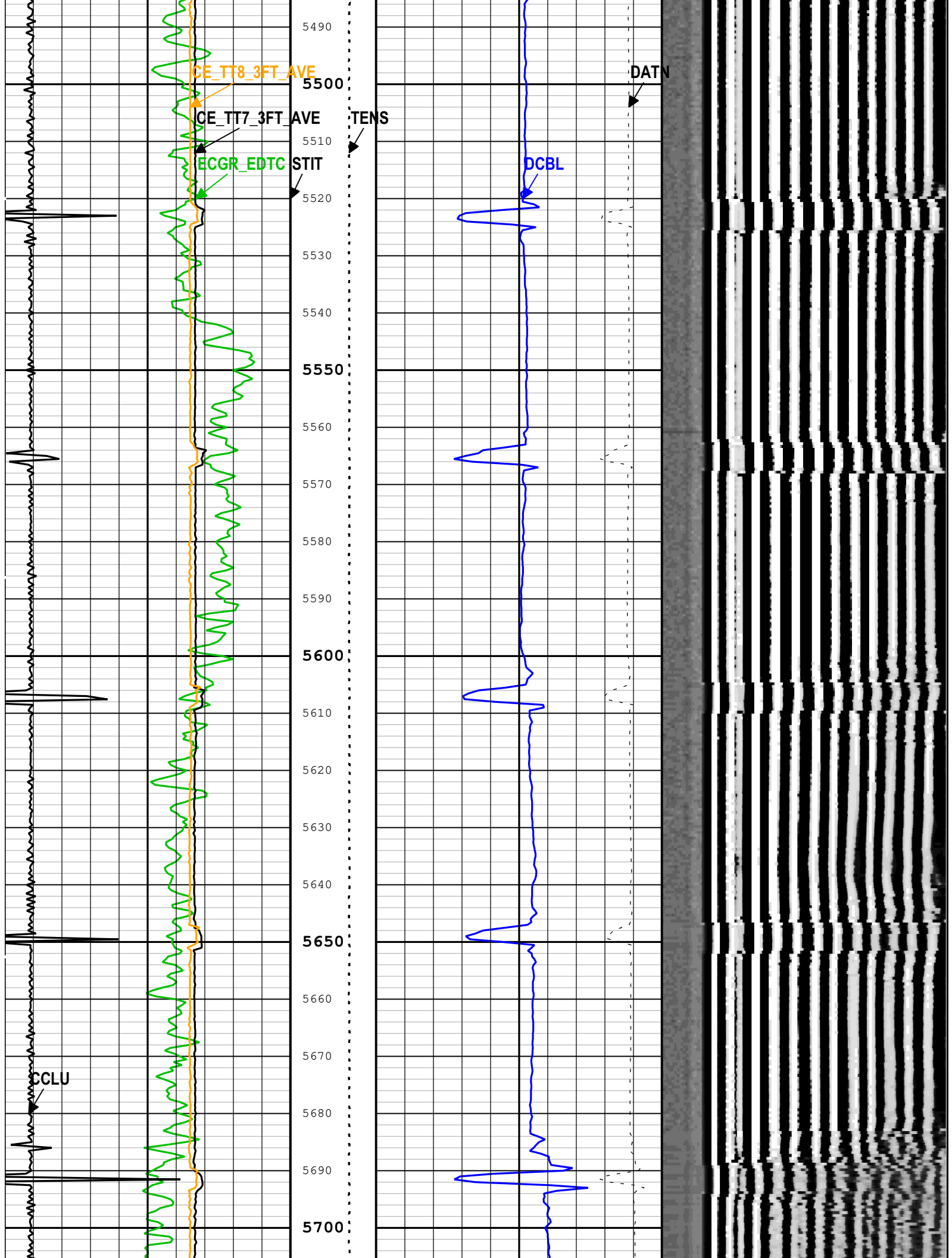


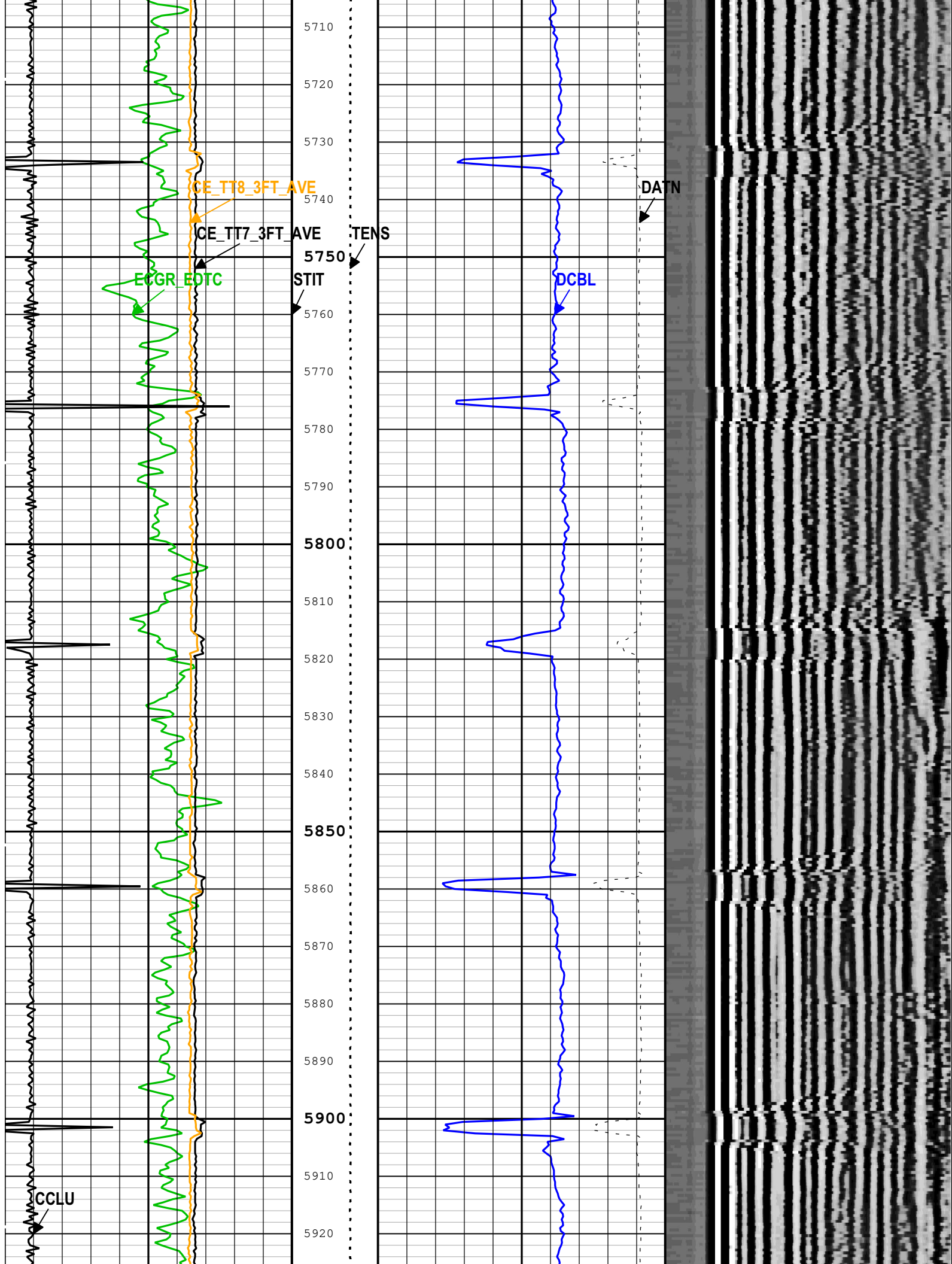


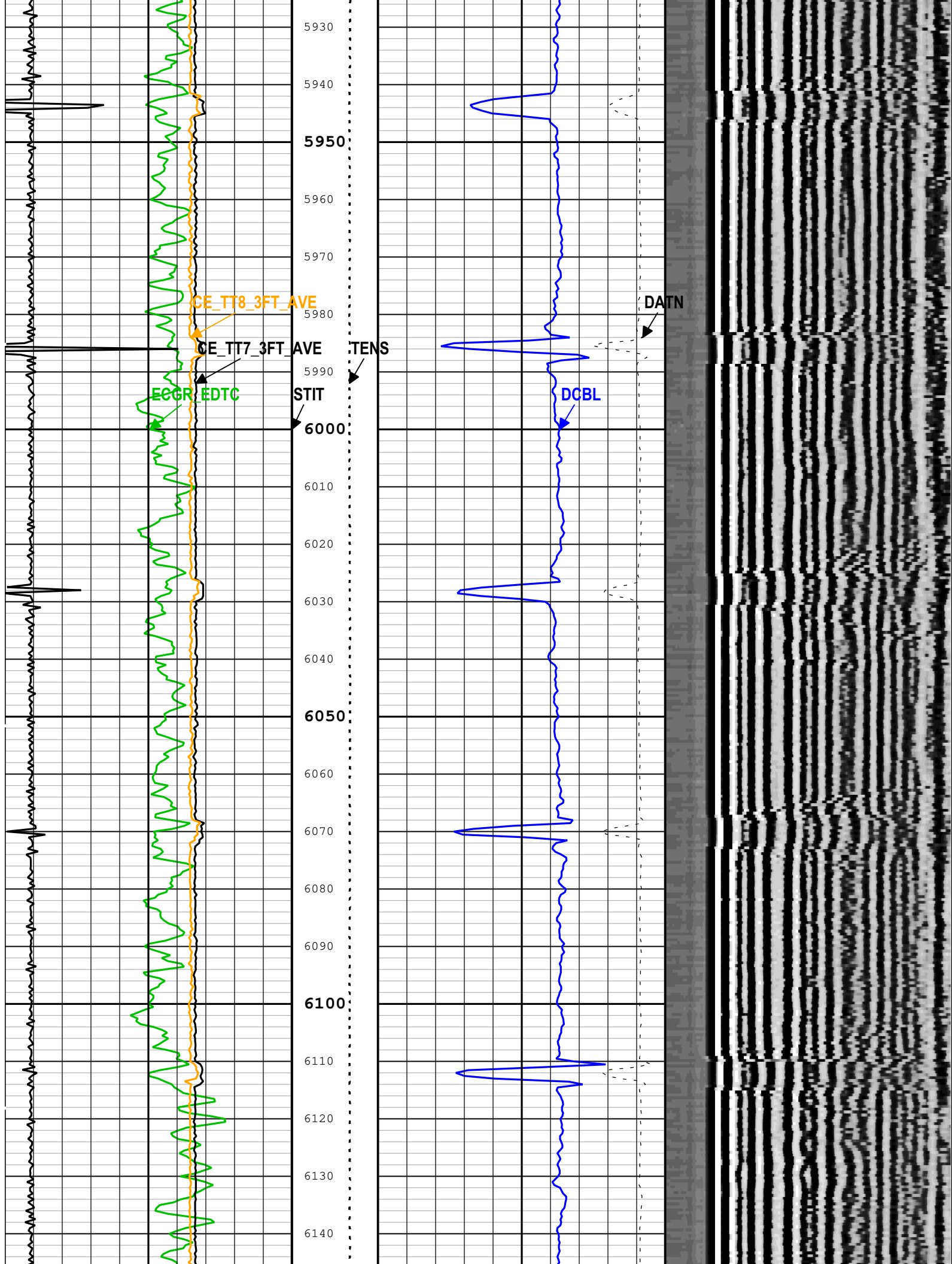


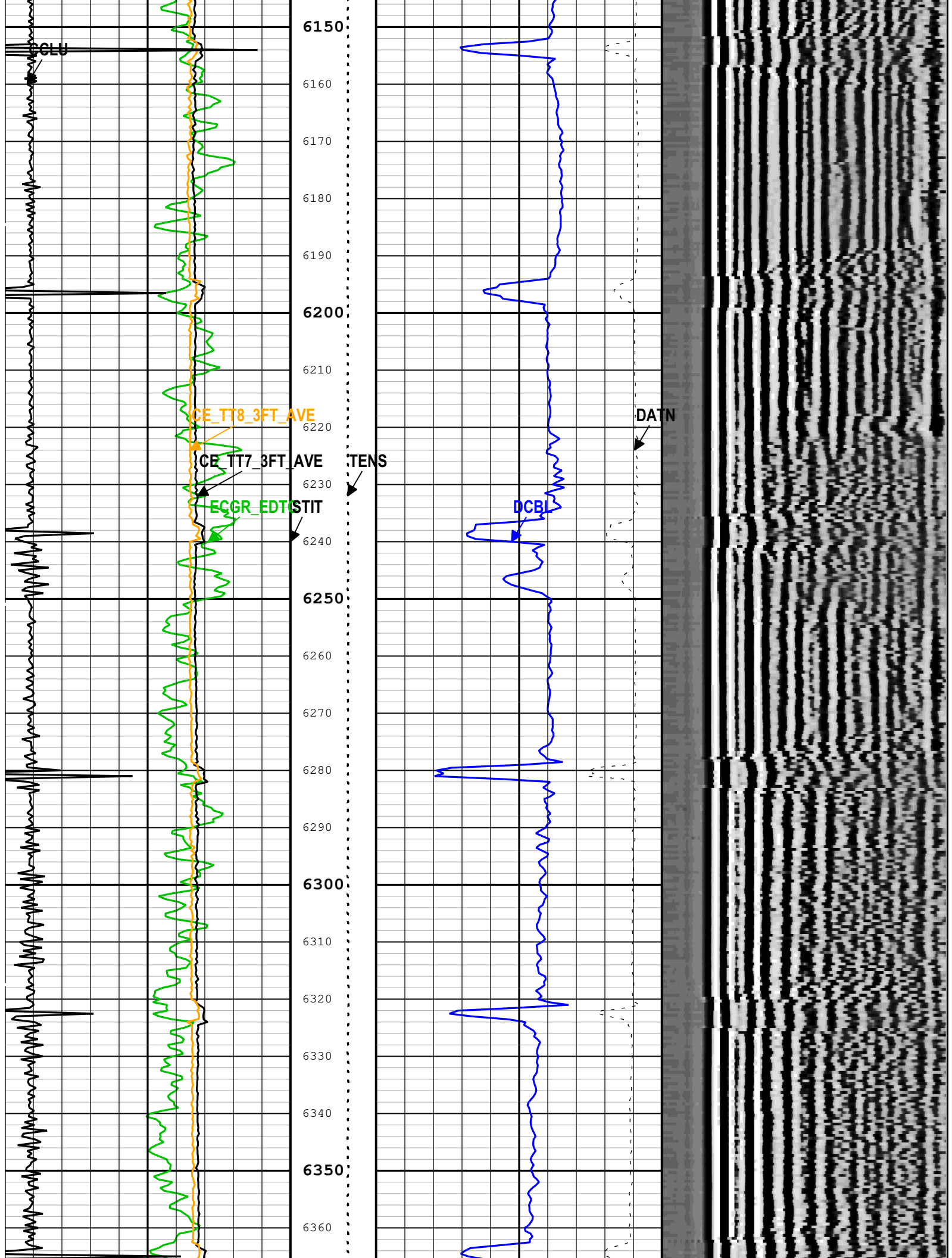


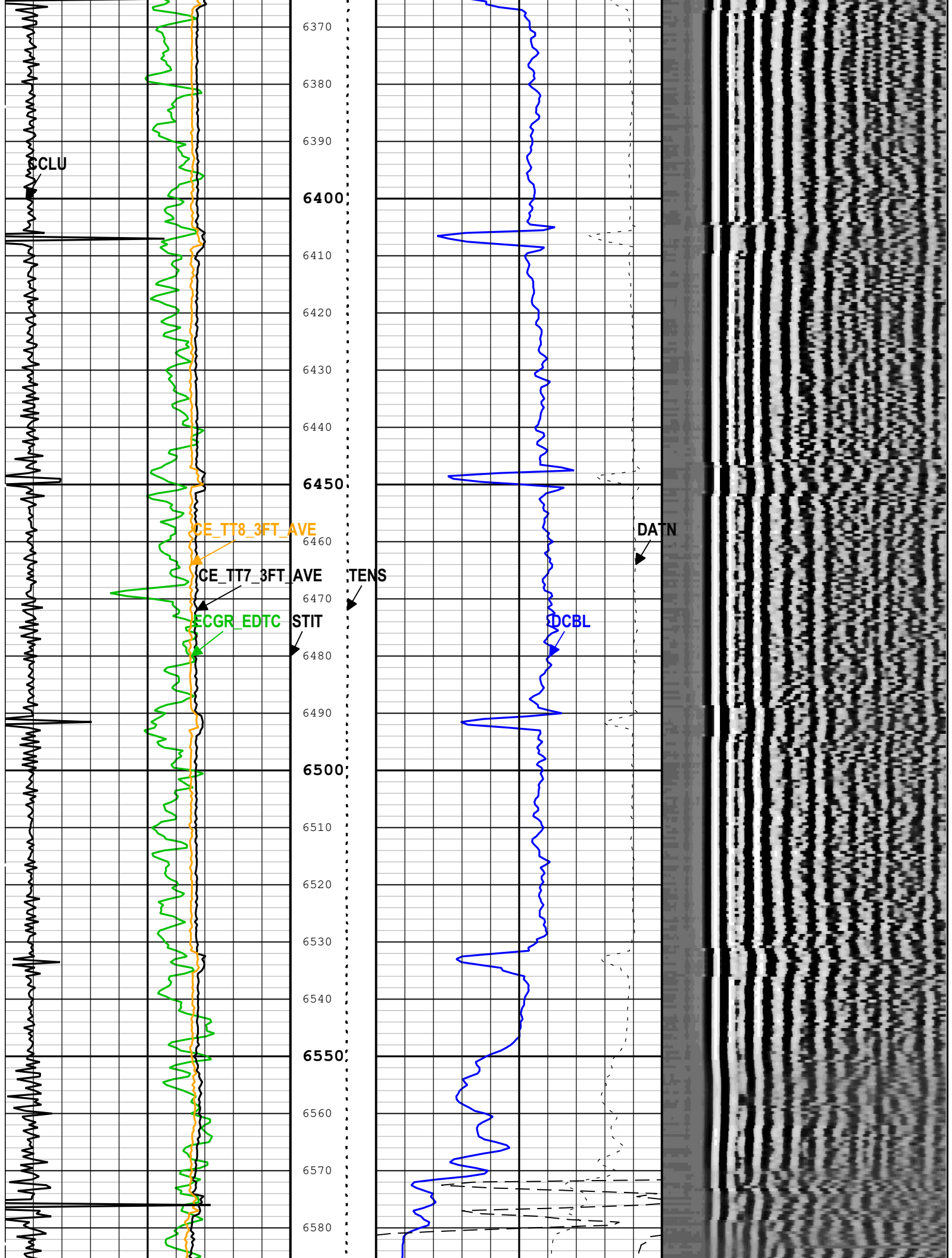


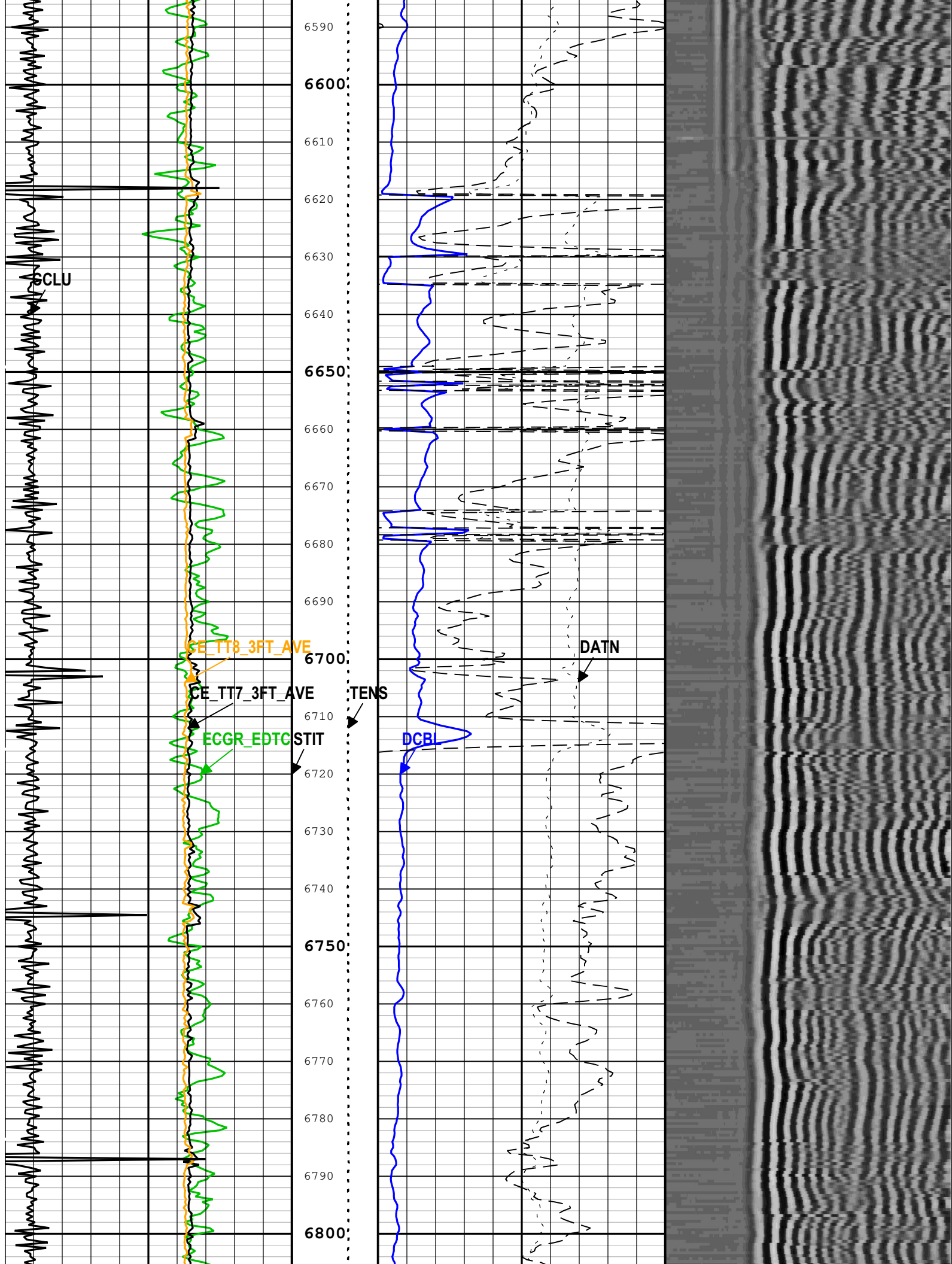


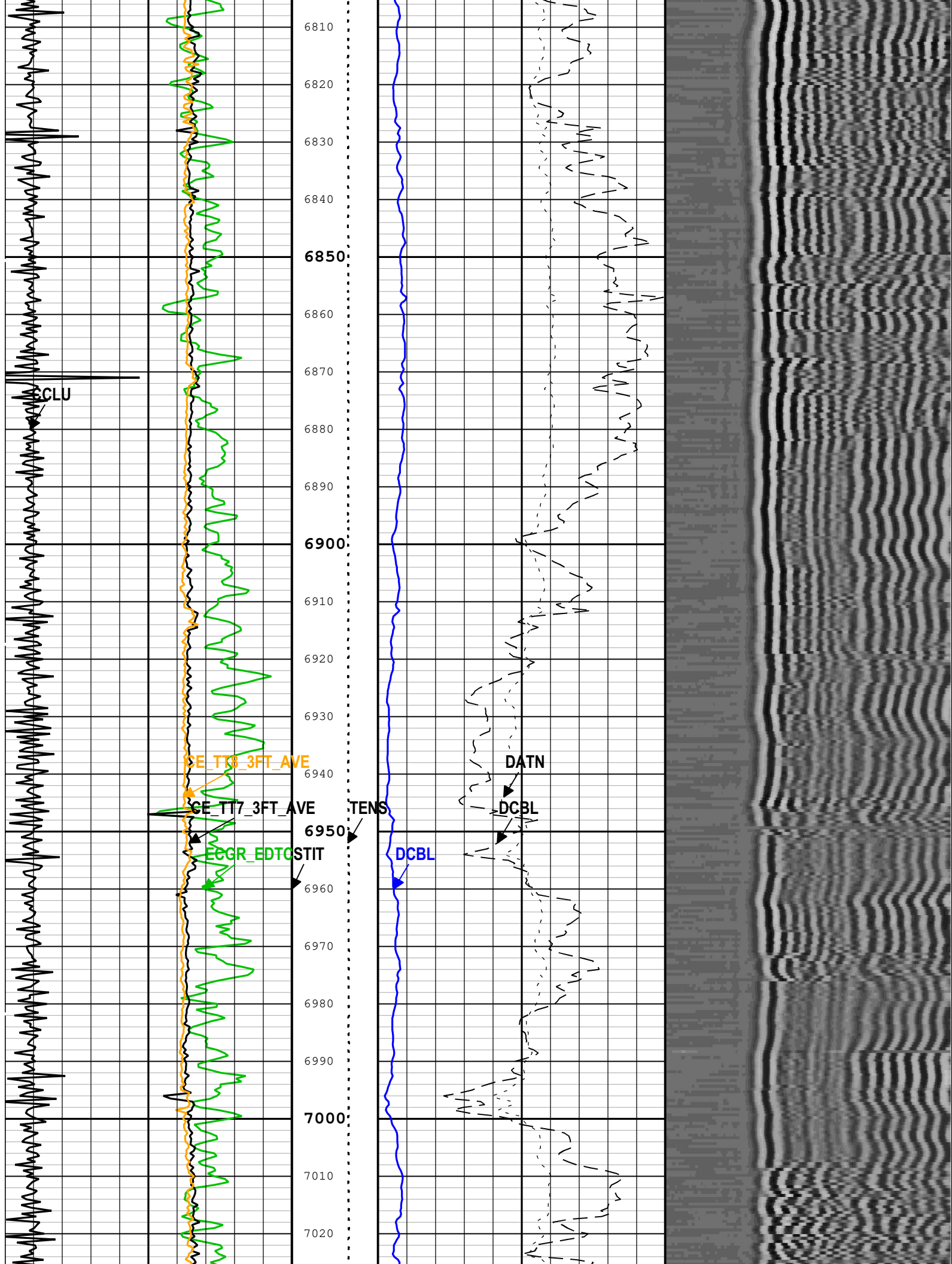


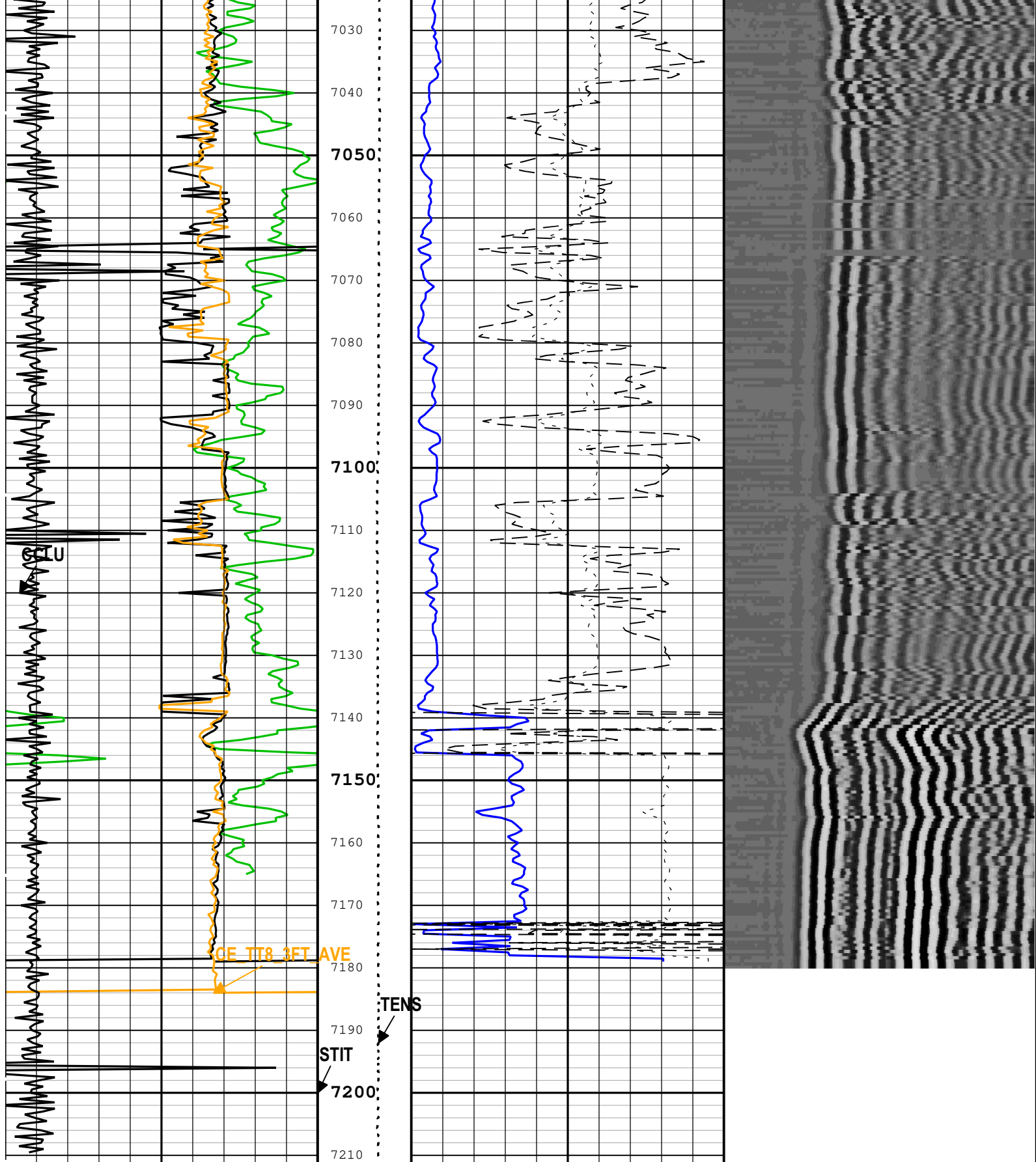












Gamma Ray (ECGR_EDTC) EDTC-B
 0 gAPI 150

Transit Time 3 ft Average from Monopole Upper High Frequency Waveform (CE_TT7_3FT_AVE) MAST-B
 100 us 400

Transit Time 3 ft Average from Monopole Lower High Frequency Waveform (CE_TT8_3FT_AVE) MAST-B

Stuck Tool Indicator, Total (STIT)
 0 ft 50

Cable Tension (TENS)
 10000 0

Synthetic CBL from Discriminated Attenuation (DCBL) MAST-B
 0 mV 100

Synthetic CBL from Discriminated Attenuation (DCBL) MAST-B
 0 mV 10

Discriminated BHC Attenuation (DATN)

Min Amplitude Max
 Variable Density Log MAST-B
 200 us 1200

High Frequency Waveform (CE_TT8_3FT_AVE) MAST-B		
100	us	400
Casing Collar Locator Ultrasonic (CCLU) USIT-E		
-1	in	10

lbf	20	MAST-B	0
Tool_Tot. Drag		dB/ft	
Cable Drag			

TIME_1900 - Time Marked every 60.00 (s)

Description: MAST_CE_DCBL_3050 Format: Log (MAST_CE_DCBL_3050) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 11-Apr-2022 12:46:36

Channel Processing Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
CBLO	Casing Bottom (Logger)	WLSESSION	8053	ft
CBRA	CBL LQC Reference Amplitude in Free Pipe	MAST-B	80	mV
CDEN	Cement Density	USIT-E	1.62	g/cm3
CDEN	Cement Density	EDTC-B	2	g/cm3
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DCBLCTL	Discriminated Cement Bond Log Processing Control Flag	MAST-B	On	
DFD	Drilling Fluid Density	Borehole	8.3	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DPINV_LAGCUT	Lag Cut for Dipole Inversion	MAST-B	No	
DTF	Delta-T Fluid	Borehole	189	us/ft
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
DTST_SLO_MFL	Slowness Series of Mouse Clicks for Relabeling DTST_MFL	MAST-B	[0]	us/ft
FD	Fluid Density	USIT-E	1.26	g/cm3
FMDCTL_MLH	First Motion Detection Processing Control Flag for Monopole Lower Transmitter High Frequency Firing	MAST-B	On	
FMDCTL_MUH	First Motion Detection Processing Control Flag for Monopole Upper Transmitter High Frequency Firing	MAST-B	On	
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
GOBO	Good Bond	MAST-B	1.32	mV
GOBO_CURR	Good Bond in Arbitrary Cement	MAST-B	1.32	mV
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	46.68	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	IBC_FRP_OFFSET	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	FreePipe Norm.	
IMAR	Image Rotation	USIT-E	Off	
MATT	Maximum Attenuation	MAST-B	16.92	dB/ft
MATT_CURR	Maximum Attenuation in Arbitrary Cement	MAST-B	16.92	dB/ft
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	15.37	us
MODALCTL_MUH	Modal Decomposition Processing Control Flag for Monopole Upper Transmitter High Frequency Firing	MAST-B	On	
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	MAST-B	0.47	mV
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.14	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.1	

SSCCTL_MLH	Sensor Sensitivity Correction Processing Control Flag for Monopole Lower Transmitter High Frequency Firing	MAST-B	On	
SSCCTL_MUH	Sensor Sensitivity Correction Processing Control Flag for Monopole Upper Transmitter High Frequency Firing	MAST-B	On	
TD	Total Measured Depth	Borehole	7200	ft
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.68	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	34	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	ThirdInterfaceEcho	
VDLCTL_MUH	Variable Density Log Processing Control Flag for Monopole Upper High Frequency Waveforms	MAST-B	On	
VDLSELCTL	Variable Density Log Selection Processing Control Flag	MAST-B	On	
ZMUD	Acoustic Impedance of Mud	Borehole	1.6	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	28.5	750
BS	7.875	750	7211.67

All depth are actual.

Tool Control Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
ACQ_DOMAIN	Custom Acquisition Domain Name	MAST-B	[UMHF, LMHF]	
ACQCTL	Acquisition Control	MAST-B	[1, 1]	
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	dB
CBOOTSTA_MAPC	MAMS Controller Boot Status	MAST-B	1	
CONTROLLER_FIRM_REV_MAPC	MAPC Firmware Revision of Controller Electronics	MAST-B	2098	
COMPCTL	Data Compression Control	MAST-B	[MZIPA, MZIPA]	
DHMODALCTL	Downhole/Surface Modal Computation Control	MAST-B	[OFF, OFF]	
DIGDEL	Waveform Digitizing Delay	MAST-B	[0, 0]	us
DIGDT	Sonic Waveform Digitizing Slowness	MAST-B	[0, 0]	us/ft
DIGTIME	Digitizing Time	MAST-B	[1200, 1200]	us
DIIN_WF_CHN	Dipole Inline Component Waveform Data Channel Name	MAST-B	[,]	
DIIN_WFN_CHN	Dipole Inline Component Waveform Normalization Data Channel Name	MAST-B	[,]	
DIOF_WF_CHN	Dipole Offline Component Waveform Data Channel Name	MAST-B	[,]	
DIOF_WFN_CHN	Dipole Offline Component Waveform Normalization Data Channel Name	MAST-B	[,]	
EMXV	EMEX Voltage	USIT-E	40	V
GNINT	Automatic Gain Selection Time Interval	MAST-B	[1200, 1200]	us
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	4408.8	ft/h
MAX_TOOL_SPEED	Maximum service speed allowed for, or attained by, a logging tool.	MAST-B	Time Zoned	ft/h
MONO_WF_CHN	Monopole Component Waveform Data Channel Name	MAST-B	[SWMUH_M, SWMLH_M]	
MONO_WFN_CHN	Monopole Component Waveform Normalization Data Channel Name	MAST-B	[SWMUHN_M, SWMLHN_M]	
MSMT_LIST	Measurement List	MAST-B	[MUH, MLH]	
NUMMSMT	Number of active measurements	MAST-B	2	
PROD_MASTUI	MAST Product Class Selection	MAST-B	CBL	

SENSOR10_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #10	MAST-B	1059	
SENSOR11_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #11	MAST-B	1059	
SENSOR12_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #12	MAST-B	1059	
SENSOR13_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #13	MAST-B	1059	
SENSOR1_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #1	MAST-B	1059	
SENSOR2_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #2	MAST-B	1059	
SENSOR3_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #3	MAST-B	1059	
SENSOR4_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #4	MAST-B	1059	
SENSOR5_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #5	MAST-B	1059	
SENSOR6_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #6	MAST-B	1059	
SENSOR7_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #7	MAST-B	1059	
SENSOR8_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #8	MAST-B	1059	
SENSOR9_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #9	MAST-B	1059	
RBOOTSTA_MAPC	MAMS Receiver Boot Status	MAST-B	1	
RXSEL	Receiver Station Select	MAST-B	[[Off, Off], [Off, Off], [Off, Off], [Off, Off], [On, On], [On, On], [On, On], [On, On], [Off, Off], [Off, Off], [Off, Off], [Off, Off]]	
SAMINT	Sonic Waveform Sampling Interval	MAST-B	[10, 10]	
SERVICE_LIST	Service Selection List	MAST-B	[DCBLVDL]	
SNSR_WF_CHN	Sensor Waveforms Data Channel Name	MAST-B	[RSWMUH, RSWMLH]	
SNSR_WFN_CHN	Sensor Waveforms Normalization Factor Channel Name	MAST-B	[SWMUHN, SWMLHN]	
SNSRSEL	Sensor Element Select	MAST-B	[[On, On], [On, On], [On, On], [On, On], [On, On], [On, On], [On, On], [On, On], [On, On], [On, On]]	
TX_AMP	Transmitter Amplitude Factor	MAST-B	[FULL, FULL]	
TX_WF_SIGNAL	Sonic Drive Signal	MAST-B	[PREDEFINED, PREDEFINED]	
TXSEL	Transmitter Drive Selection	MAST-B	[UM, LM]	
UPAT	USIT Emission Pattern	USIT-E	Pattern 750 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
U-USIT_UTAN	Transducer Angles	USIT-E	33_DEG	
VDL_INT	Variable Density Log Step Interval	MAST-B	HIGH_SPEED	
CE_VDL_MODE	Variable Density Log Mode	MAST-B	HIGH_SPEED	
VRES	Vertical Resolution	USIT-E	6.0 in	
WF_CR_CHN	Waveform Compression Rate Channel Name	MAST-B	[WCRMUH, WCRMLH]	
WF_DEPTH_CHN	Waveform Depth Channel Name	MAST-B	[WDMUH, WDMLH]	
WF_QI_CHN	Waveform Quality Indicator Channel Name	MAST-B	[WQMUH, WQMLH]	
WFSEL	Transmitter Drive Waveform Selection	MAST-B	[mp_hf_d, mp_hf_d]	

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
MAX_TOOL_SPEED	7440	11-Apr-2022 09:54:47	11-Apr-2022 09:59:18	7211.67	7085.62
MAX_TOOL_SPEED	8146	11-Apr-2022 09:59:18	11-Apr-2022 10:14:23	7085.62	6091.99
MAX_TOOL_SPEED	7737	11-Apr-2022 10:14:23	11-Apr-2022 10:21:26	6091.99	5623.82
MAX_TOOL_SPEED	7259	11-Apr-2022 10:21:26	11-Apr-2022 10:28:28	5623.82	5157.39
MAX_TOOL_SPEED	7712	11-Apr-2022 10:28:28	11-Apr-2022 10:56:37	5157.39	3301.47
MAX_TOOL_SPEED	8233	11-Apr-2022 10:56:37	11-Apr-2022 11:02:39	3301.47	2901.13
MAX_TOOL_SPEED	7789	11-Apr-2022 11:02:39	11-Apr-2022 11:05:39	2901.13	2700.61
MAX_TOOL_SPEED	8271	11-Apr-2022 11:05:39	11-Apr-2022 11:06:40	2700.61	2633.75
MAX_TOOL_SPEED	7834	11-Apr-2022 11:06:40	11-Apr-2022 11:10:41	2633.75	2365.16
MAX_TOOL_SPEED	8272	11-Apr-2022 11:10:41	11-Apr-2022 11:33:48	2365.16	807.09
MAX_TOOL_SPEED	7827	11-Apr-2022 11:33:48	11-Apr-2022 11:41:50	807.09	265.06

MAX_TOOL_SPEED	7827	11-Apr-2022 11:33:48	11-Apr-2022 11:41:50	807.09	265.06
MAX_TOOL_SPEED	7283	11-Apr-2022 11:41:50	11-Apr-2022 11:43:51	265.06	148.89
MAX_TOOL_SPEED	7709	11-Apr-2022 11:43:51	11-Apr-2022 11:44:51	148.89	102.09
MAX_TOOL_SPEED	7230	11-Apr-2022 11:44:51	11-Apr-2022 11:46:21	102.09	74.76

All depth are at tool zero.

One

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[5]:Up	Up	3173.53 ft	3455.15 ft	11-Apr-2022 9:18:10 AM	11-Apr-2022 9:26:29 AM	ON	1.82 ft	Yes
One	Log[8]:Up	Up	74.76 ft	7211.67 ft	11-Apr-2022 9:54:47 AM	11-Apr-2022 11:46:21 AM	ON	4.95 ft	Yes

All depths are referenced to toolstring zero

Log	Company: Occidental Petroleum Inc Well: Camenisch 2-15 One: Log[8]:Up:S014
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Description: MAST_CE_DCBL_3050 Format: Log (MAST_CE_DCBL_3050 RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 11-Apr-2022 12:46:47

TIME_1900 - Time Marked every 60.00 (s)

Main To Repeat

Repeat To Main

Transit Time 5 ft Average from Monopole Lower
High Frequency Waveform
(CE_TT8_5FT_AVE) MAST-B

400 us 200

Main To Repeat

Repeat To Main

Transit Time 3 ft Average from Monopole Upper
High Frequency Waveform
(CE_TT7_3FT_AVE) MAST-B

400 us 200

Main To Repeat

Repeat To Main

Detection Minimum Slowness from Monopole
Lower Transmitter High Frequency Firing
(CE_SGDT_DC8) MAST-B

40 us/ft 140

Main To Repeat

Repeat To Main

Cable Speed (CS)

0 ft/h 2000

Main To Repeat

Repeat To Main

Fixed Detection Length for from Monopole
Upper Transmitter High Frequency Firing
(CE_CBLG_DC7) MAST-B

40 us 240

Main To Repeat

Repeat To Main

Fixed Detection Start from Monopole Upper
Transmitter High Frequency Firing
(CE_NMSG_DC7) MAST-B

100 us 300

Main To Repeat

Repeat To Main

Transit Time 3 ft Average from Monopole Lower
High Frequency Waveform
(CE_TT8_3FT_AVE) MAST-B

400 us 200

Main To Repeat

Repeat To Main

Gamma Ray (ECGR_EDTC) EDTC-B

0 gAPI 150

Main To Repeat

Repeat To Main

Transit Time 5 ft Average from Monopole Upper
High Frequency Waveform
(CE_TT7_5FT_AVE) MAST-B

400 us 200

Main To Repeat

Repeat To Main

Detection Minimum Slowness from Monopole
Upper Transmitter High Frequency Firing
(CE_SGDT_DC7) MAST-B

40 us/ft 140

Main To Repeat

Repeat To Main

Fixed Detection Length for from Monopole
Lower Transmitter High Frequency Firing
(CE_CBLG_DC8) MAST-B

40 us 240

Main To Repeat

Main To Repeat

Repeat To Main

Cable Tension (TENS)

10000 0 lbf

Main To Repeat

Main To Repeat

Repeat To Main

Fixed Detection Start from Monopole Lower
Transmitter High Frequency Firing
(CE_NMSG_DC8) MAST-B

100 us 300

Repeat To
Main

Stuck Tool
Indicator,
Total (STIT)

0 ft 50

Main To Repeat

Repeat To Main
Synthetic CBL from Discriminated Attenuation
(DCBL) MAST-B

0 mV 100

Min

Amplitude

Max

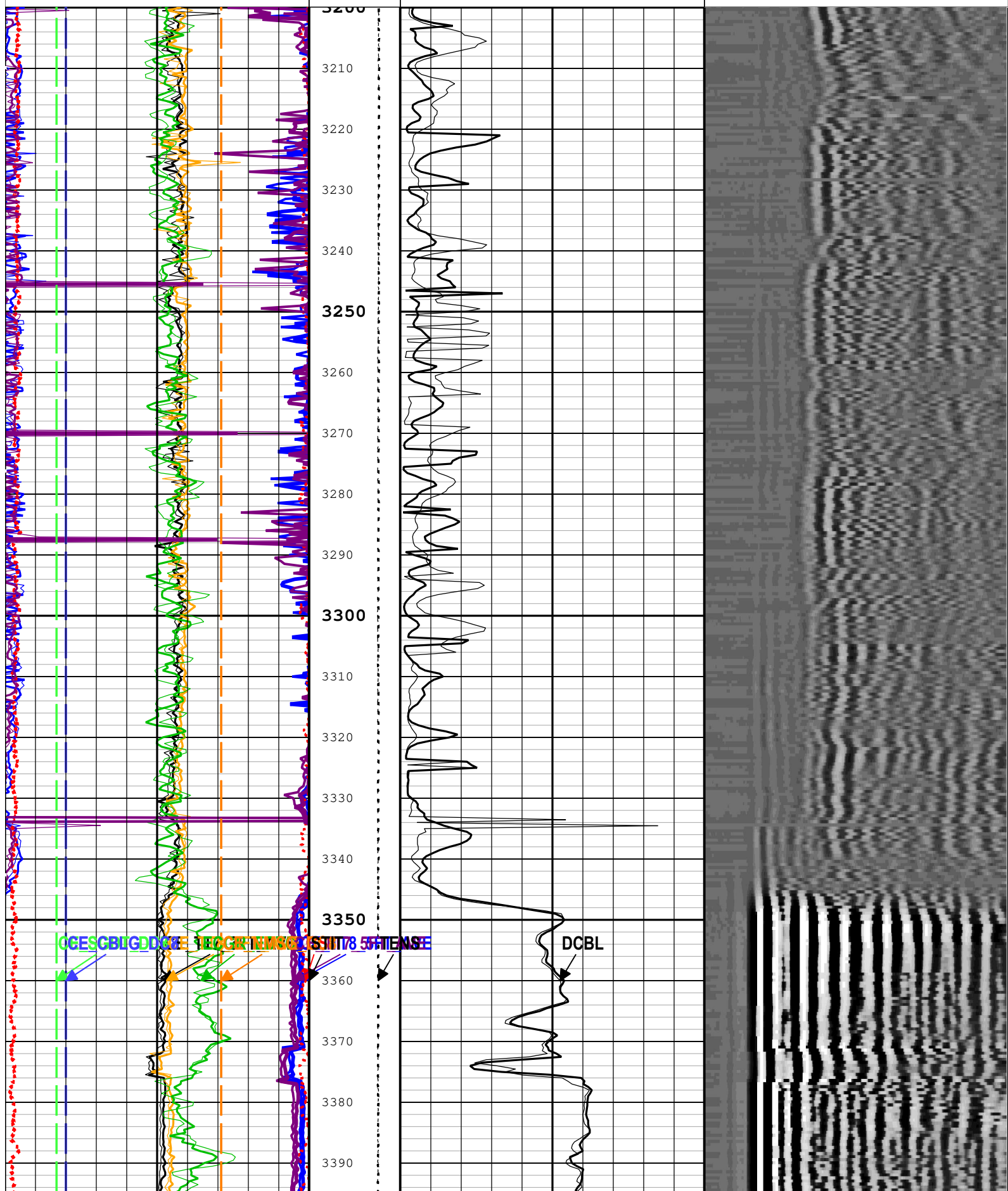


Variable Density Log MAST-B

200

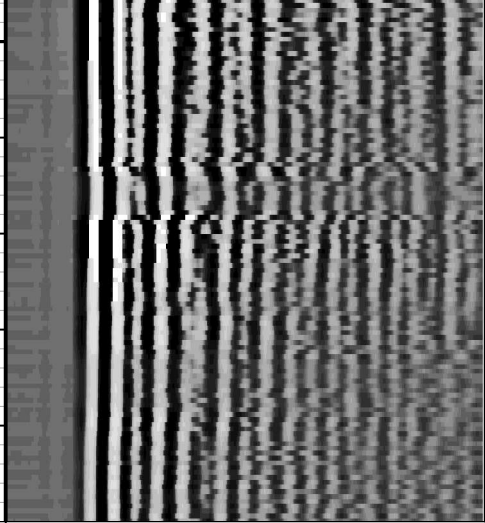
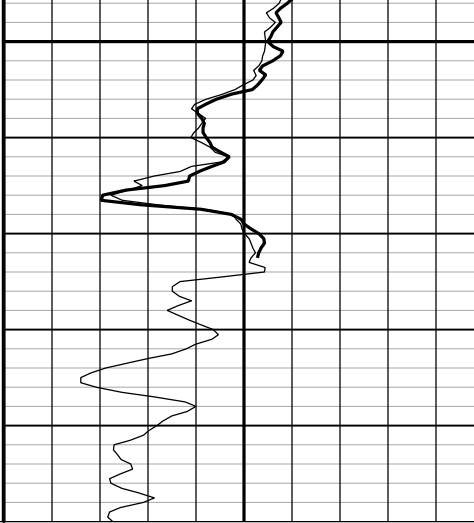
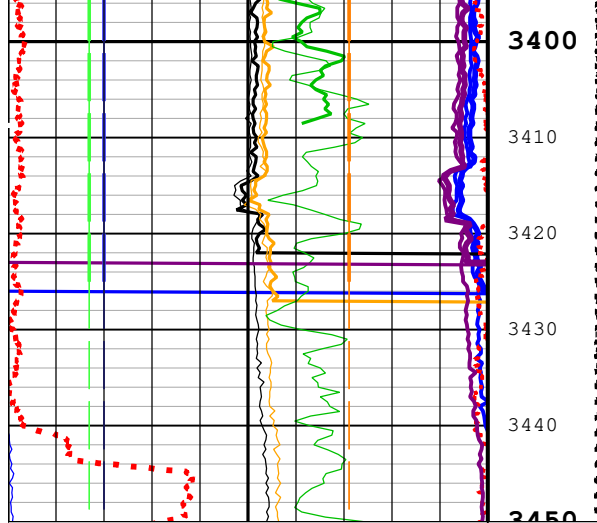
us

1200



CGESCBIGDDXIE TEOGRNMSG STIT78 50 FTIENSE

DCBL



Main To Repeat
Repeat To Main

Transit Time 5 ft Average from Monopole Lower High Frequency Waveform (CE_TT8_5FT_AVE) MAST-B

400 us 200

Main To Repeat
Repeat To Main

Cable Tension (TENS)

Main To Repeat
Repeat To Main

Synthetic CBL from Discriminated Attenuation (DCBL) MAST-B

0 mV 100

Min Amplitude Max

Variable Density Log MAST-B

200 us 1200

Main To Repeat
Repeat To Main

Transit Time 3 ft Average from Monopole Upper High Frequency Waveform (CE_TT7_3FT_AVE) MAST-B

400 us 200

10000 0 lbf

Main To Repeat
Repeat To Main

Main To Repeat
Repeat To Main

Detection Minimum Slowness from Monopole Lower Transmitter High Frequency Firing (CE_SGDT_DC8) MAST-B

40 us/ft 140

Stuck Tool Indicator, Total (STIT)

0 ft 50

Main To Repeat
Repeat To Main

Cable Speed (CS)

0 ft/h 2000

Main To Repeat
Repeat To Main

Fixed Detection Length for from Monopole Upper Transmitter High Frequency Firing (CE_CBLG_DC7) MAST-B

40 us 240

Main To Repeat
Repeat To Main

Repeat To Main		
Fixed Detection Start from Monopole Upper Transmitter High Frequency Firing (CE_NMSG_DC7) MAST-B		
100	us	300
Main To Repeat		
Repeat To Main		
Transit Time 3 ft Average from Monopole Lower High Frequency Waveform (CE_TT8_3FT_AVE) MAST-B		
400	us	200
Main To Repeat		
Repeat To Main		
Gamma Ray (ECGR_EDTC) EDTC-B		
0	gAPI	150
Main To Repeat		
Repeat To Main		
Transit Time 5 ft Average from Monopole Upper High Frequency Waveform (CE_TT7_5FT_AVE) MAST-B		
400	us	200
Main To Repeat		
Repeat To Main		
Detection Minimum Slowness from Monopole Upper Transmitter High Frequency Firing (CE_SGDT_DC7) MAST-B		
40	us/ft	140
Main To Repeat		
Repeat To Main		
Fixed Detection Length for from Monopole Lower Transmitter High Frequency Firing (CE_CBLG_DC8) MAST-B		
40	us	240
Main To Repeat		
Repeat To Main		
Fixed Detection Start from Monopole Lower Transmitter High Frequency Firing (CE_NMSG_DC8) MAST-B		
100	us	300

TIME_1900 - Time Marked every 60.00 (s)

Company: Occidental Petroleum Inc



Well: Camenisch 2-15

Field: Wattenberg

County: Weld

State: Colorado

Cement Bond Log

Variable Density Log

Gamma Ray - CCL