Enhanced DTS Cartridge Wellsite Calibration - EDTC Accelerometer Calibration
Before: Calibration not done

EDTC Z-Axis Acceleration	32.19	N/A	32.17	N/A	N/A	N/A	F/S2

Enhanced DTS Cartridge Wellsite Calibration - Detector Calibration
Before: 1-Jul-2010 15:08

Gamma Ray (Jig - Bkg)	158.8	N/A	158.8	N/A	N/A	14.44	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

General Purpose Inclinometer / Equipment Identification

Primary Equipment:		
GPIT Cartridge - F	GPIC - F	828
Auxiliary Equipment:		
GPIT Housing - F	GPIH - C	721

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:		
EDTC Gamma Ray Detector	EDTG - A/B	8256
Enhanced DTS Cartridge	EDTC - B	8251
Auxiliary Equipment:		
EDTC Housing	EDTH - B	8267

Enhanced DTS Cartridge Wellsite Calibration
EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration F/S2	Value
Before		32.17

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

Before: Calibration not done

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		17.13	Before		158.8	Before		165.0
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	144.4 (Minimum)	158.8 (Nominal)	173.3 (Maximum)	150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)

Before: 1-Jul-2010 15:08

Company: **BP Exploration & Production, Inc.**

Schlumberger

Well: **OCS-G 32306 002 ST00BP00**
Field: **Mississippi Canyon 252**
County: **Offshore**
State: **Louisiana**

Cement Bond Log/Variable Density Log
with USI/MSIP/Gamma Ray
13-5/8" 88.2# Casing

FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	NO	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	85	DEGF
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Centered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	13.625	IN
CWEI	Casing Weight	88.20	LB/F
DFD	Drilling Fluid Density	12.70	LB/G
DO	Depth Offset for Playback	-8.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	-50000.0000	OHMM
TD	Total Depth	13800	FT
TDD	Total Depth - Driller	13522.00	FT
TDL	Total Depth - Logger	13405.00	FT
TWS	Temperature of Connate Water Sample	-50000.00	DEGF

Format: 2_MAST_DBI_WF Vertical Scale: 5" per 100' Graphics File Created: 09-Jul-2010 10:26

OP System Version: 17C0-154

USIT-D	SRPC-3971-Q1_2010_OP17_b	CAL-Y	17C0-154
GPIT-F	SRPC-3971-Q1_2010_OP17_b	MAPC-B	SKK-3934-MAST_b
EDTC-B	SKK-3882-EDTCB_b	ECRD	SRPC-3971-Q1_2010_OP17_b

Input DLIS Files

DEFAULT	USI_IS_MAPC_036LUP	FN:42	PRODUCER	08-Jul-2010 09:08	13023.0 FT	12687.6 FT

Output DLIS Files

DEFAULT	USI_IS_MAPC_073PUP	FN:2	PRODUCER	09-Jul-2010 10:26

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BEFORE SURVEY CALIBRATION

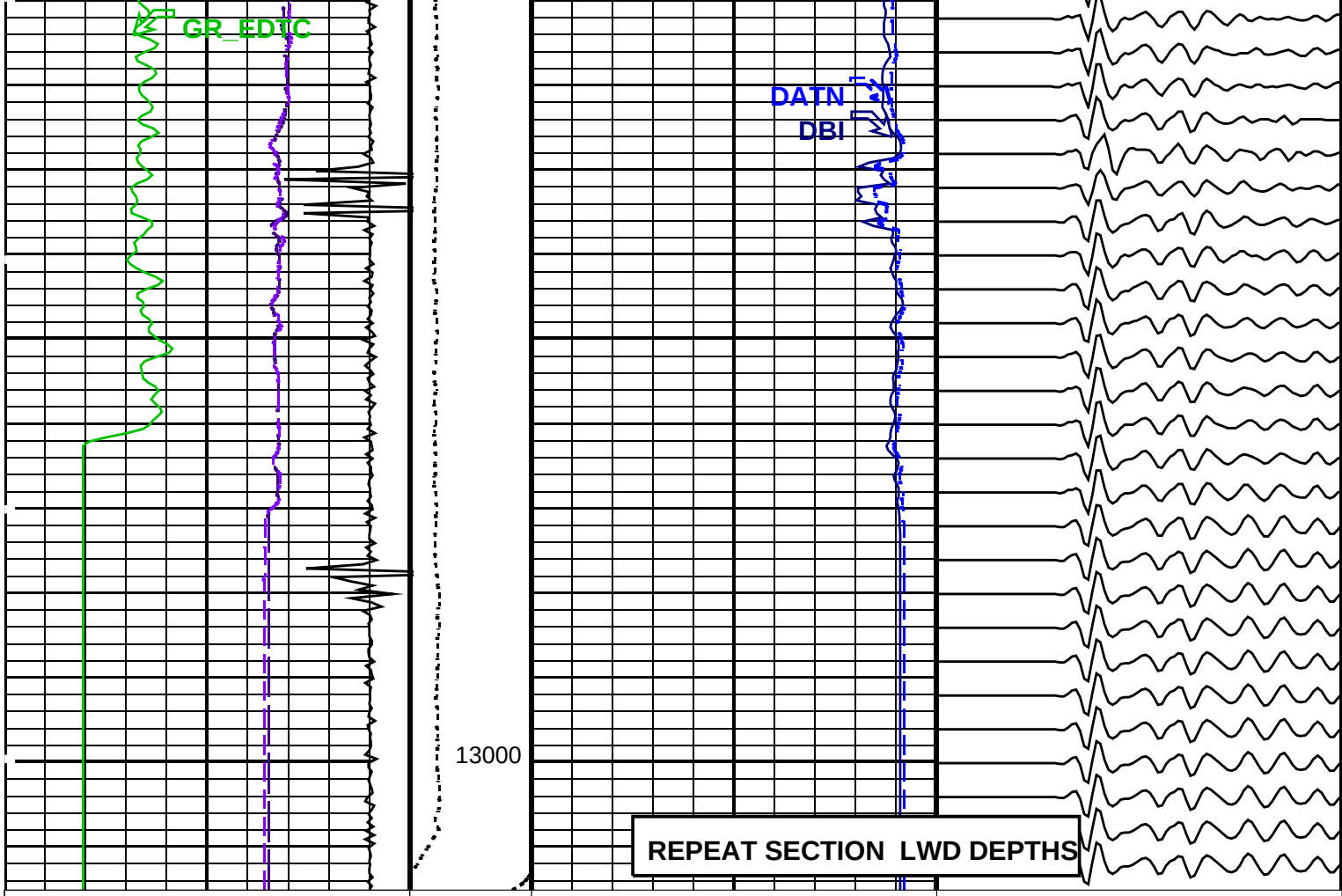
MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units

IMG_DTCO_SEL_MAST	Imaging Input DT Compressional Selection	CONSTANT_DTCO	
IMG_EST_DTCO_MAST	Imaging Estimated DT Compressional	120	US/F
IMG_RBS	Imaging Relative Bearing Selection	RB1	
ISSBAR	Barite Mud Switch	NOBARITE	
ITTS	Integrated Transit Time Source	DTCO	
MAST_AZIM_PROC_SWITCH	MAST Azimuth Process Switch	ON	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MATT	Maximum Attenuation	7.19423	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	22.1338	FT
MMSA	MAP Minimum Sonic Amplitude	0	MV
MSA	Minimum Sonic Amplitude	5.20811	MV
NFPI_ML	Free Pipe Amplitude for ML	3000	
NFPI_MU	Free Pipe Amplitude for MU	3000	
NRSA	Number of Receivers in Sub-Array	** V **	
PRES_MAST_DTC_CURVE_LL	MAST Compressional DT Slowness Curve Lower Limit for Presentation	40	US/F
PRES_MAST_DTC_CURVE_UL	MAST Compressional DT Slowness Curve Upper Limit for Presentation	240	US/F
PRES_MAST_DTC_IMAGE_LL	MAST Compressional DT Slowness Image Lower Limit for Presentation	40	US/F
PRES_MAST_DTC_IMAGE_UL	MAST Compressional DT Slowness Image Upper Limit for Presentation	240	US/F
PRES_MAST_DTST_CURVE_LL	MAST Stoneley DT Slowness Curve Lower Limit for Presentation	100	US/F
PRES_MAST_DTST_CURVE_UL	MAST Stoneley DT Slowness Curve Upper Limit for Presentation	700	US/F
PRES_MAST_DTST_IMAGE_LL	MAST Stoneley DT Slowness Image Lower Limit for Presentation	100	US/F
PRES_MAST_DTST_IMAGE_UL	MAST Stoneley DT Slowness Image Upper Limit for Presentation	700	US/F
PRES_MAST_DTS_CURVE_LL	MAST Share DT Slowness Curve Lower Limit for Presentation	40	US/F
PRES_MAST_DTS_CURVE_UL	MAST Share DT Slowness Curve Upper Limit for Presentation	540	US/F
PRES_MAST_DTS_IMAGE_LL	MAST Share DT Slowness Image Lower Limit for Presentation	40	US/F
PRES_MAST_DTS_IMAGE_UL	MAST Share DT Slowness Image Upper Limit for Presentation	540	US/F
PRES_MAST_SDT_TIME_WINDOW_LL	MAST Shear DT Time Windows Lower Limit in Alford Rotation for Presentation	0	US
PRES_MAST_SDT_TIME_WINDOW_UL	MAST Shear DT Time Windows Upper Limit in Alford Rotation for Presentation	20000	US
RBC	Relative Bearing Correction Allow/Disallow	DISALLOW	
ROTIN_XD	Alford Rotation X Dipole Measurement Number	DISALLOW	
ROTIN_YD	Alford Rotation Y Dipole Measurement Number	DISALLOW	
ROTWINDOW_CTRL	Alford Rotation Window Control	ON	
ROT_AI	Dipole Waveform Rotation Averaging Depth Interval	0	FT
ROT_FIL_LENG	Alford Rotation Filter Length	0	
ROT_TWD	Alford Rotation Window Time Width	0	US
ROT_TWO	Alford Rotation Window Time Offset	0	US
ROT_XFH	Alford Rotation Filter High Cutoff	0	HZ
ROT_XFL	Alford Rotation Filter Low Cutoff	0	HZ
SHT	Surface Hole Temperature	85	DEGF
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
STCAL	STC Algorithm	** V **	
STCSEL1	Station Selection for STC for Measurement 1	** V **	
STCSEL2	Station Selection for STC for Measurement 2	** V **	
STCSEL3	Station Selection for STC for Measurement 3	** V **	
STCSEL4	Station Selection for STC for Measurement 4	** V **	
STCSEL5	Station Selection for STC for Measurement 5	** V **	
STCSEL6	Station Selection for STC for Measurement 6	** V **	
STCSEL_FAST	Station Selection for STC for DT_FAST	** V **	
STCSEL_SLOW	Station Selection for STC for DT_SLOW	** V **	
TRMIN	Alteration Detection Minimum Transmitter Receiver Spacing for Processing	3.0	FT
TX_AMP	Transmitter Amplitude Factor	** V **	
U_SLL1_MAST	MAST DSTC Slowness Lower Limit 1	0	US/F
U_SLL2_MAST	MAST DSTC Slowness Lower Limit 2	0	US/F
U_SLL3_MAST	MAST DSTC Slowness Lower Limit 3	0	US/F
U_SLL4_MAST	MAST DSTC Slowness Lower Limit 4	0	US/F
U_SLL5_MAST	MAST DSTC Slowness Lower Limit 5	0	US/F
U_SLL6_MAST	MAST DSTC Slowness Lower Limit 6	0	US/F
U_SLL_FAST_MAST	MAST DSTC Slowness Lower Limit Fast	0	US/F
U_SLL_SLOW_MAST	MAST DSTC Slowness Lower Limit Slow	0	US/F
U_SUL1_MAST	MAST DSTC Slowness Upper Limit 1	0	US/F
U_SUL2_MAST	MAST DSTC Slowness Upper Limit 2	0	US/F
U_SUL3_MAST	MAST DSTC Slowness Upper Limit 3	0	US/F
U_SUL4_MAST	MAST DSTC Slowness Upper Limit 4	0	US/F
U_SUL5_MAST	MAST DSTC Slowness Upper Limit 5	0	US/F
U_SUL6_MAST	MAST DSTC Slowness Upper Limit 6	0	US/F
U_SUL_FAST_MAST	MAST DSTC Slowness Upper Limit Fast	0	US/F
U_SUL_SLOW_MAST	MAST DSTC Slowness Upper Limit Slow	0	US/F
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	165	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	STAN	
FSAL	Formation Salinity	50000	PPM

CYST	Casing Yield Strength	0	PSI
DFVL	Default Fluid Velocity	206	US/F
DOT	Diameter of Transducer Sensor	6.938	IN
EMXV	EMEX Voltage	125	V
FDII	FPM Data Interpolation Interval	0	FT
FSOD	Fluid Slowness Fits Casing Outer Diameter	0_OFF	
IMAR	Image Rotation	RB	
MW	Mud Weight	12.7	LB/G
OPLEV	USIT Remove Flagged Data Level	level2	
RCOD	Reference Calibrator Outer Diameter	7	IN
RCSO	Reference Calibrator Standoff	1.37795	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
SDNV	Number of Vertical Samples used for Micro-debonding Computation	5	
SDTHOR	Acoustic Impedance STD Horizontal Threshold for Micro-debonding	0.5	
SDTVER	Acoustic Impedance STD Vertical Threshold for Micro-debonding	0.3	
SUBT	Ultrasonic Subassembly Type	Sub_10_34_inch_S	
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	170	
THDL	Minimum Search Thickness (percentage of nominal)	85	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.6	IN
TMUC	Type of Mud	OBM	
U-USIT_RFWB	USIT Remove Flagged Data Window Begin	0	US
U-USIT_RFWE	USIT Remove Flagged Data Window End	511	US
UMAO	USIT Measurement Angular Offset	-10	DEG
UPAT	Emission Pattern	Pattern_300K	
USIT_USAC_TASK_ALLOW	USIT USAC Allow Task after Power Up	YES	
USIT_USAC_TASK_TIMEOUT	USIT USAC Task Timeout (in seconds) FOR TEST REPORT	600	
USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_10_34_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_60U_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	29	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.48	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.01	MRAY
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	5	V
GPIT-F: General Purpose Inclinometer			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
BOOTVN	Downhole Firmware Version	1.0	
FWVN	Downhole Firmware Version	1.0	
GPITF_LOGGING_SPEED	Max Logging Speed	3600_FPH	
ICMO	Inclinometry Computation Mode	CASED_HOLE	
MDEC	Magnetic Field Declination	-0.99895	DEG
MAPC-B: Multimode Array Sonic Power Cartridge			
AZIM_SELECT	Azimuth Reference Selection	NONE	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	165	DEGF
BILI	Bond Index Level for Zone Isolation	0.6	
BISS	Bond Index Source Selection for BIQL	DBI	
BS	Bit Size	14.750	IN
CBRA	CBL LQC Reference Amplitude in Free Pipe	43	MV
CDTS	C-Delta-T Shale	100	US/F
CE_DCBLSEL	DCBL Selection for Cement Evaluation	3_5FT	
CE_VDLGRA	VDL Manual Gain Rate Array for Cement Evaluation	** V **	
CE_VDLSEL	VDL Selection for Cement Evaluation	MU_5FT	
CE_VDL_MODE	DCBL/VDL Mode for Cement Evaluation	STANDARD	
CE_VFILSWA	VDL Filter Switch Array for Cement Evaluation	** V **	
CLASSAL	Classification Algorithm	** V **	
CMCF	CBL Cement Type Compensation Factor	1	
CRVIN_MF	Alteration Detection Input Number for Monopole Far	DISALLOW	
CRVIN_ML	Alteration Detection Input Number for Monopole Lower	DISALLOW	
CRVIN_MU	Alteration Detection Input Number for Monopole Upper	DISALLOW	
CTHI	Casing Thickness	0.635048	IN
DCRMVL	DC Offset Removal Option	DC_MULTIPLE	
DLHS	Hole Diameter Source for SOBS Channel	AUTO	
DTCO_SELECT	Delta-T Compressional Selection for Finalization	MF	
DTF	Delta-T Fluid	221.6	US/F
DTM	Delta-T Matrix	56	US/F
DTSH_SELECT	Delta-T Shear Selection for Finalization	XD	
DWF7_SPEC	Channel/Station/Azimuth for VDL (DWF7) of Measurement 7	WFA7/9/1	
DWF8_SPEC	Channel/Station/Azimuth for VDL (DWF8) of Measurement 8	WFA8/5/1	
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.661468	
FIRING_TABLE	MAST Firing Table	** V **	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GOBO	Good Bond	12.117	MV
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	



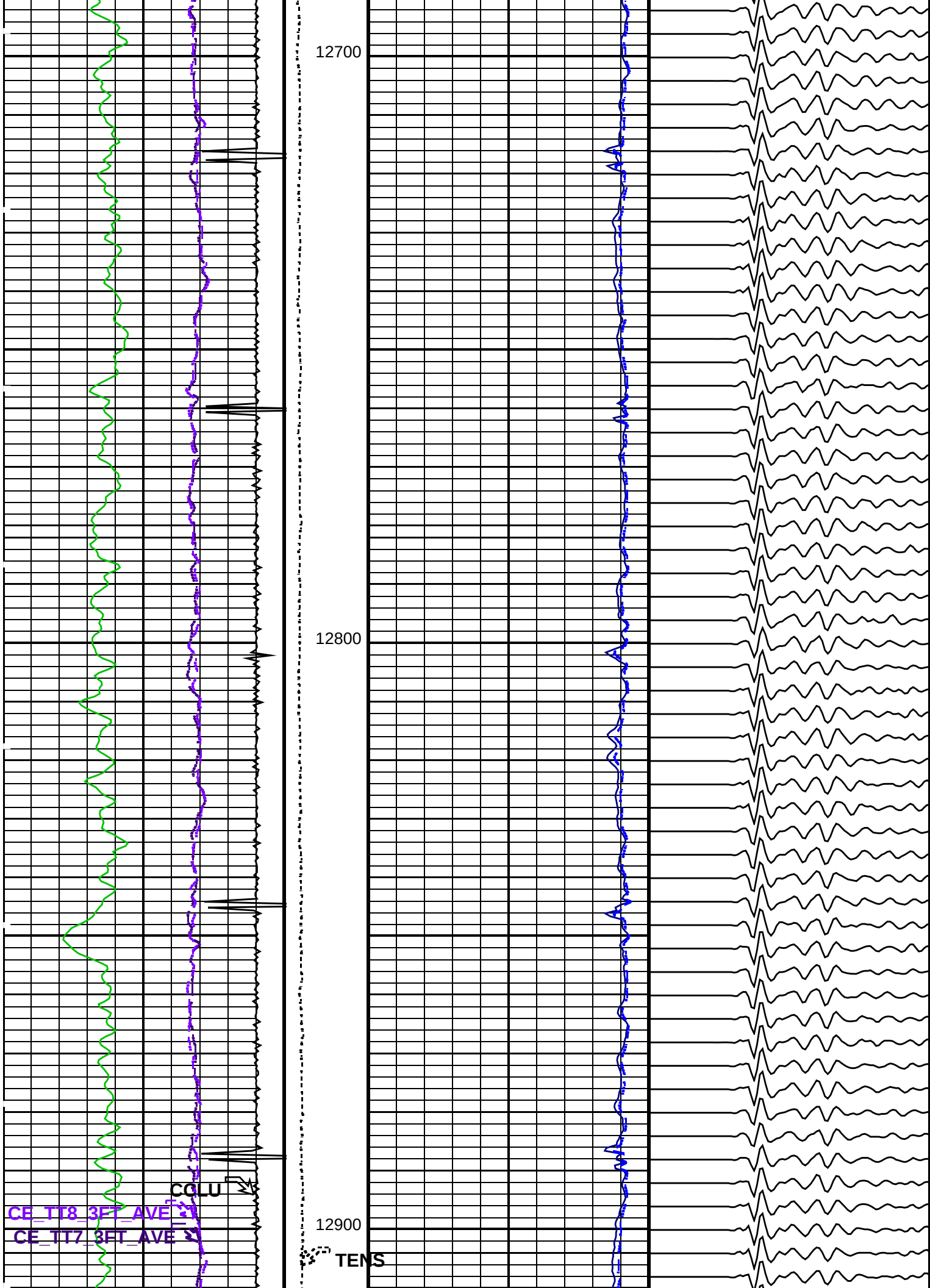
Collars	Tension (TENS) (LBF) 3000 – 5000	Discriminated Bond Index (DBI) 1 (----) 0	VDL Waveforms (VDL) 200 (US) 1200
Radioactive Marker		Discriminated Attenuation (DATN) 10 (DB/F) 0	
Gamma Ray (GR_EDTC) 0 (GAPI) 100		>60% Bond	
Transit Time 3FT (CE_TT7_3FT_AVE) 550 (US) 350			
Transit Time 3FT (CE_TT8_3FT_AVE) 550 (US) 350			
CCL (CCLU) -36 (----) 4			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	USIT-D: Ultrasonic Imaging - D		
	Corrosion range minimum	-0.076	IN
	Corrosion range maximum	0.076	IN
	T^3 Processing Length for FPM	26.648	US
AGMN	Minimum Gain of Cartridge	-4	DB
AGMX	Maximum Gain of Cartridge	48	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	13.625	IN
CDUN	Curves Unit Declared in Presentation Manager	IN	
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	12.425	IN
CYST	Casing Yield Strength	0	PSI


12700
12800
12900
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS

DO	Depth Offset for Playback	-8.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	-50000.0000	OHMM
TD	Total Depth	13800	FT
TDD	Total Depth - Driller	13522.00	FT
TDL	Total Depth - Logger	13405.00	FT
TWS	Temperature of Connate Water Sample	-50000.00	DEGF

Format: 2_MAST_CE_DBI Vertical Scale: 5" per 100' Graphics File Created: 09-Jul-2010 10:26

OP System Version: 17C0-154

USIT-D	SRPC-3971-Q1_2010_OP17_b	CAL-Y	17C0-154
GPIT-F	SRPC-3971-Q1_2010_OP17_b	MAPC-B	SKK-3934-MAST_b
EDTC-B	SKK-3882-EDTCB_b	ECRD	SRPC-3971-Q1_2010_OP17_b

Input DLIS Files

DEFAULT	USI_IS_MAPC_036LUP	FN:42	PRODUCER	08-Jul-2010 09:08	13023.0 FT	12687.6 FT

Output DLIS Files

DEFAULT	USI_IS_MAPC_073PUP	FN:2	PRODUCER	09-Jul-2010 10:26

Company: BP Deepwater GoM Nakika Fourier field Well: OCS G 32306 002 ST00BP0

Input DLIS Files

DEFAULT	USI_IS_MAPC_036LUP	FN:42	PRODUCER	08-Jul-2010 09:08	13023.0 FT	12687.6 FT

Output DLIS Files

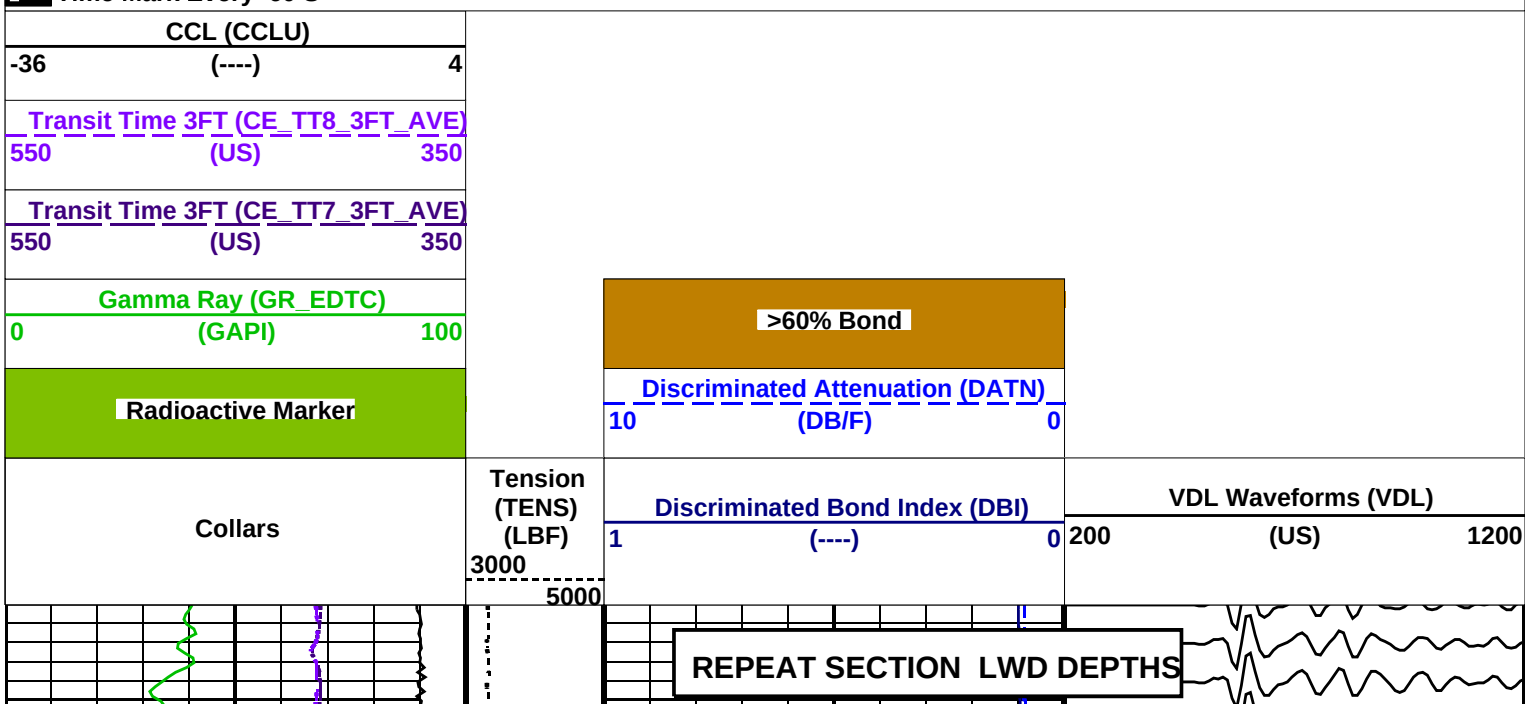
DEFAULT	USI_IS_MAPC_073PUP	FN:2	PRODUCER	09-Jul-2010 10:26	13015.0 FT	12680.0 FT

OP System Version: 17C0-154

USIT-D	SRPC-3971-Q1_2010_OP17_b	CAL-Y	17C0-154
GPIT-F	SRPC-3971-Q1_2010_OP17_b	MAPC-B	SKK-3934-MAST_b
EDTC-B	SKK-3882-EDTCB_b	ECRD	SRPC-3971-Q1_2010_OP17_b

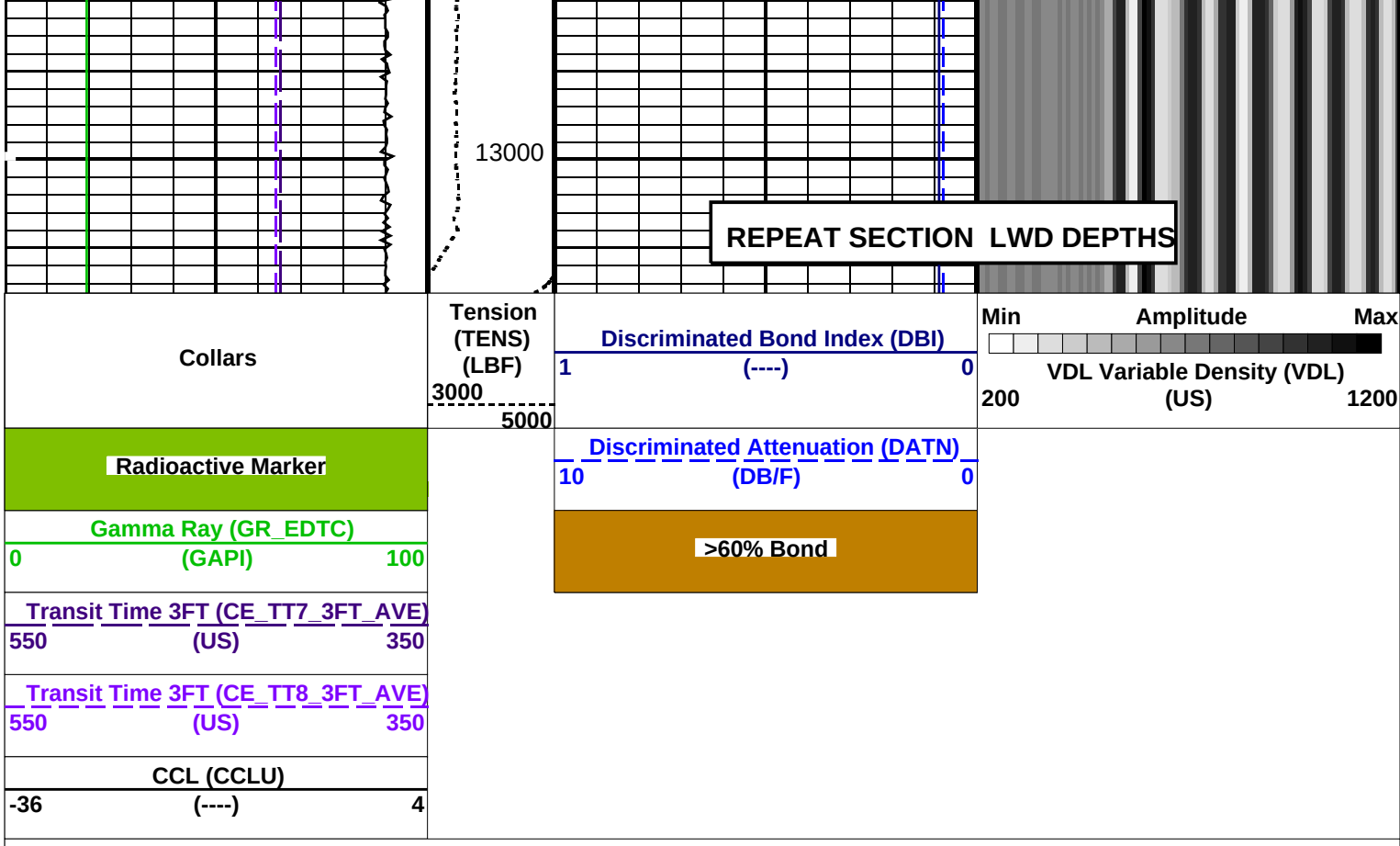
PIP SUMMARY

Time Mark Every 60 S



PRES_MAST_DTS_CURVE_LL	MAST Share DT Slowness Curve Lower Limit for Presentation	40	US/F
PRES_MAST_DTS_CURVE_UL	MAST Share DT Slowness Curve Upper Limit for Presentation	540	US/F
PRES_MAST_DTS_IMAGE_LL	MAST Share DT Slowness Image Lower Limit for Presentation	40	US/F
PRES_MAST_DTS_IMAGE_UL	MAST Share DT Slowness Image Upper Limit for Presentation	540	US/F
PRES_MAST_SDT_TIME_WINDOW_LL	MAST Shear DT Time Windows Lower Limit in Alford Rotation for Presentation	0	US
PRES_MAST_SDT_TIME_WINDOW_UL	MAST Shear DT Time Windows Upper Limit in Alford Rotation for Presentation	20000	US
RBC	Relative Bearing Correction Allow/Disallow	DISALLOW	
ROTIN_XD	Alford Rotation X Dipole Measurement Number	DISALLOW	
ROTIN_YD	Alford Rotation Y Dipole Measurement Number	DISALLOW	
ROTWINDOW_CTRL	Alford Rotation Window Control	ON	
ROT_AI	Dipole Waveform Rotation Averaging Depth Interval	0	FT
ROT_FIL_LENG	Alford Rotation Filter Length	0	
ROT_TWD	Alford Rotation Window Time Width	0	US
ROT_TWO	Alford Rotation Window Time Offset	0	US
ROT_XFH	Alford Rotation Filter High Cutoff	0	HZ
ROT_XFL	Alford Rotation Filter Low Cutoff	0	HZ
SHT	Surface Hole Temperature	85	DEGF
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
STCAL	STC Algorithm	** V **	
STCSEL1	Station Selection for STC for Measurement 1	** V **	
STCSEL2	Station Selection for STC for Measurement 2	** V **	
STCSEL3	Station Selection for STC for Measurement 3	** V **	
STCSEL4	Station Selection for STC for Measurement 4	** V **	
STCSEL5	Station Selection for STC for Measurement 5	** V **	
STCSEL6	Station Selection for STC for Measurement 6	** V **	
STCSEL_FAST	Station Selection for STC for DT_FAST	** V **	
STCSEL_SLOW	Station Selection for STC for DT_SLOW	** V **	
TRMIN	Alteration Detection Minimum Transmitter Receiver Spacing for Processing	3.0	FT
TX_AMP	Transmitter Amplitude Factor	** V **	
U_SLL1_MAST	MAST DSTC Slowness Lower Limit 1	0	US/F
U_SLL2_MAST	MAST DSTC Slowness Lower Limit 2	0	US/F
U_SLL3_MAST	MAST DSTC Slowness Lower Limit 3	0	US/F
U_SLL4_MAST	MAST DSTC Slowness Lower Limit 4	0	US/F
U_SLL5_MAST	MAST DSTC Slowness Lower Limit 5	0	US/F
U_SLL6_MAST	MAST DSTC Slowness Lower Limit 6	0	US/F
U_SLL_FAST_MAST	MAST DSTC Slowness Lower Limit Fast	0	US/F
U_SLL_SLOW_MAST	MAST DSTC Slowness Lower Limit Slow	0	US/F
U_SUL1_MAST	MAST DSTC Slowness Upper Limit 1	0	US/F
U_SUL2_MAST	MAST DSTC Slowness Upper Limit 2	0	US/F
U_SUL3_MAST	MAST DSTC Slowness Upper Limit 3	0	US/F
U_SUL4_MAST	MAST DSTC Slowness Upper Limit 4	0	US/F
U_SUL5_MAST	MAST DSTC Slowness Upper Limit 5	0	US/F
U_SUL6_MAST	MAST DSTC Slowness Upper Limit 6	0	US/F
U_SUL_FAST_MAST	MAST DSTC Slowness Upper Limit Fast	0	US/F
U_SUL_SLOW_MAST	MAST DSTC Slowness Upper Limit Slow	0	US/F
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	165	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	STAN	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	NO	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	85	DEGF
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Centered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	13.625	IN
CWEI	Casing Weight	88.20	LB/F
DFD	Drilling Fluid Density	12.70	LB/G

USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_10_34_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_60U_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	29	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.48	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.01	MRAY
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	5	V
GPIT-F: General Purpose Inclinometer			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
BOOTVN	Downhole Firmware Version	1.0	
FWVN	Downhole Firmware Version	1.0	
GPITF_LOGGING_SPEED	Max Logging Speed	3600_FPH	
ICMO	Inclinometry Computation Mode	CASED_HOLE	
MDEC	Magnetic Field Declination	-0.99895	DEG
MAPC-B: Multimode Array Sonic Power Cartridge			
AZIM_SELECT	Azimuth Reference Selection	NONE	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	165	DEGF
BILI	Bond Index Level for Zone Isolation	0.6	
BISS	Bond Index Source Selection for BIQL	DBI	
BS	Bit Size	14.750	IN
CBRA	CBL LQC Reference Amplitude in Free Pipe	43	MV
CDTS	C-Delta-T Shale	100	US/F
CE_DCBLSEL	DCBL Selection for Cement Evaluation	3_5FT	
CE_VDLGRA	VDL Manual Gain Rate Array for Cement Evaluation	** V **	
CE_VDLSEL	VDL Selection for Cement Evaluation	MU_5FT	
CE_VDL_MODE	DCBL/VDL Mode for Cement Evaluation	STANDARD	
CE_VFILSWA	VDL Filter Switch Array for Cement Evaluation	** V **	
CLASSAL	Classification Algorithm	** V **	
CMCF	CBL Cement Type Compensation Factor	1	
CRVIN_MF	Alteration Detection Input Number for Monopole Far	DISALLOW	
CRVIN_ML	Alteration Detection Input Number for Monopole Lower	DISALLOW	
CRVIN_MU	Alteration Detection Input Number for Monopole Upper	DISALLOW	
CTHI	Casing Thickness	0.635048	IN
DCRMVL	DC Offset Removal Option	DC_MULTIPLE	
DLHS	Hole Diameter Source for SOBS Channel	AUTO	
DTCO_SELECT	Delta-T Compressional Selection for Finalization	MF	
DTF	Delta-T Fluid	221.6	US/F
DTM	Delta-T Matrix	56	US/F
DTSH_SELECT	Delta-T Shear Selection for Finalization	XD	
DWF7_SPEC	Channel/Station/Azimuth for VDL (DWF7) of Measurement 7	WFA7/9/1	
DWF8_SPEC	Channel/Station/Azimuth for VDL (DWF8) of Measurement 8	WFA8/5/1	
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.661468	
FIRING_TABLE	MAST Firing Table	** V **	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GOBO	Good Bond	12.117	MV
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
IMG_DTCO_SEL_MAST	Imaging Input DT Compressional Selection	CONSTANT_DTCO	
IMG_EST_DTCO_MAST	Imaging Estimated DT Compressional	120	US/F
IMG_RBS	Imaging Relative Bearing Selection	RB1	
ISSBAR	Barite Mud Switch	NOBARITE	
ITTS	Integrated Transit Time Source	DTCO	
MAST_AZIM_PROC_SWITCH	MAST Azimuth Process Switch	ON	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MATT	Maximum Attenuation	7.19423	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	22.1338	FT
MMSA	MAP Minimum Sonic Amplitude	0	MV
MSA	Minimum Sonic Amplitude	5.20811	MV
NFPI_ML	Free Pipe Amplitude for ML	3000	
NFPI_MU	Free Pipe Amplitude for MU	3000	
NRSA	Number of Receivers in Sub-Array	** V **	
PRES_MAST_DTC_CURVE_LL	MAST Compressional DT Slowness Curve Lower Limit for Presentation	40	US/F
PRES_MAST_DTC_CURVE_UL	MAST Compressional DT Slowness Curve Upper Limit for Presentation	240	US/F
PRES_MAST_DTC_IMAGE_LL	MAST Compressional DT Slowness Image Lower Limit for Presentation	40	US/F
PRES_MAST_DTC_IMAGE_UL	MAST Compressional DT Slowness Image Upper Limit for Presentation	240	US/F
PRES_MAST_DTST_CURVE_LL	MAST Stoneley DT Slowness Curve Lower Limit for Presentation	100	US/F
PRES_MAST_DTST_CURVE_UL	MAST Stoneley DT Slowness Curve Upper Limit for Presentation	700	US/F
PRES_MAST_DTST_IMAGE_LL	MAST Stoneley DT Slowness Image Lower Limit for Presentation	100	US/F
PRES_MAST_DTST_IMAGE_UL	MAST Stoneley DT Slowness Image Upper Limit for Presentation	700	US/F
PRES_MAST_DTS_CURVE_LL	MAST Share DT Slowness Curve Lower Limit for Presentation	40	US/F

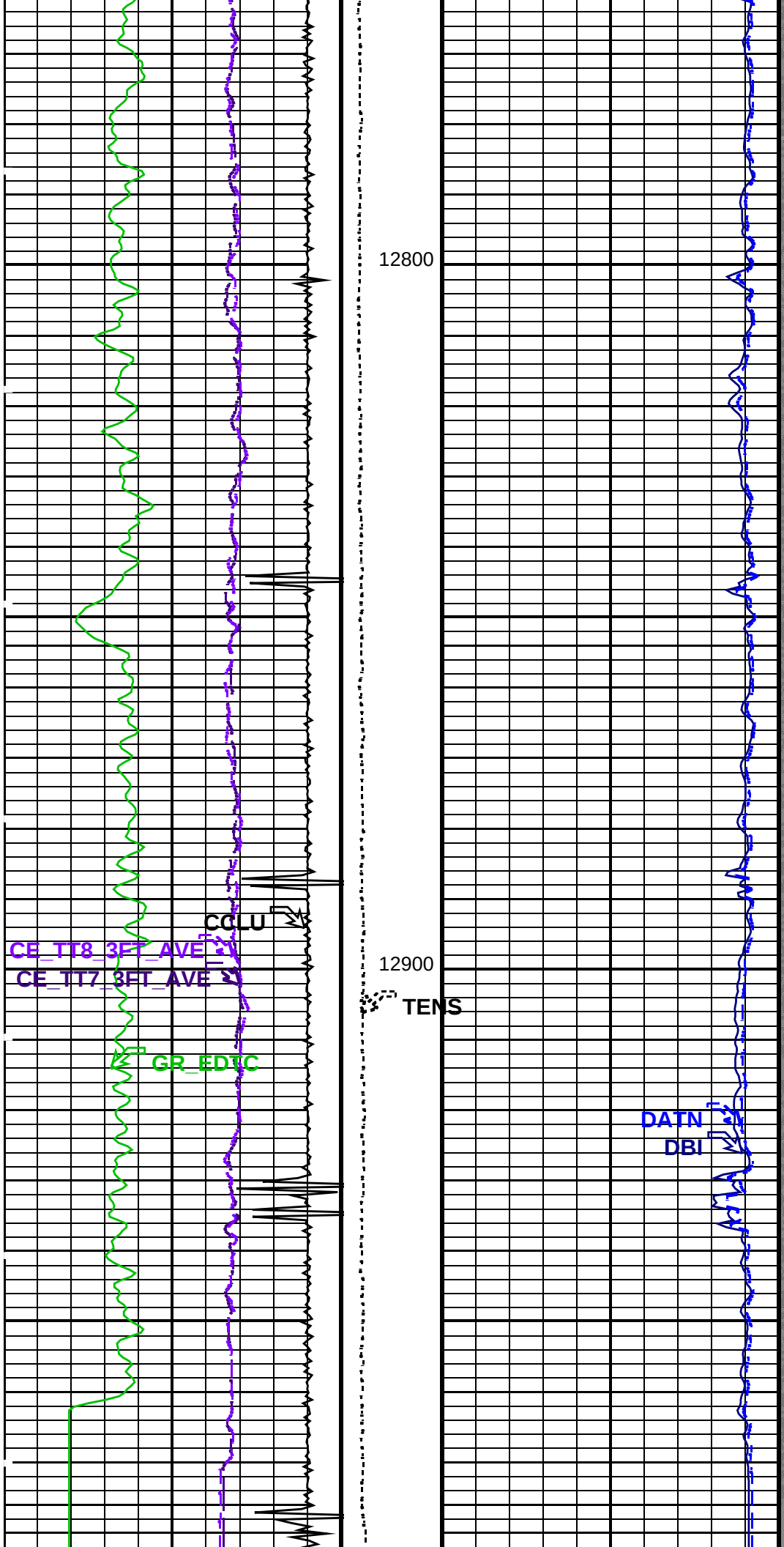


PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	USIT-D: Ultrasonic Imaging - D		
	Corrosion range minimum	-0.076	IN
	Corrosion range maximum	0.076	IN
	T^3 Processing Length for FPM	26.648	US
AGMN	Minimum Gain of Cartridge	-4	DB
AGMX	Maximum Gain of Cartridge	48	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	13.625	IN
CDUN	Curves Unit Declared in Presentation Manager	IN	
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	12.425	IN
CYST	Casing Yield Strength	0	PSI
DFVL	Default Fluid Velocity	206	US/F
DOT	Diameter of Transducer Sensor	6.938	IN
EMXV	EMEX Voltage	125	V
FDII	FPM Data Interpolation Interval	0	FT
FSOD	Fluid Slowness Fits Casing Outer Diameter	0_OFF	
IMAR	Image Rotation	RB	
MW	Mud Weight	12.7	LB/G
OPLEV	USIT Remove Flagged Data Level	level2	
RCOD	Reference Calibrator Outer Diameter	7	IN
RCSO	Reference Calibrator Standoff	1.37795	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
SDNV	Number of Vertical Samples used for Micro-debonding Computation	5	
SDTHOR	Acoustic Impedance STD Horizontal Threshold for Micro-debonding	0.5	
SDTVER	Acoustic Impedance STD Vertical Threshold for Micro-debonding	0.3	
SUBT	Ultrasonic Subassembly Type	Sub_10_34_inch_S	
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	170	
THDL	Minimum Search Thickness (percentage of nominal)	85	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.6	IN
TMUC	Type of Mud	OBM	
U-USIT_RFWB	USIT Remove Flagged Data Window Begin	0	US
U-USIT_RFWE	USIT Remove Flagged Data Window End	511	US
UMAO	USIT Measurement Angular Offset	-10	DEG
UPAT	Emission Pattern	Pattern_300K	
USIT_USAC_TASK_ALLOW	USIT USAC Allow Task after Power Up	YES	
USIT_USAC_TASK_TIMEOUT	USIT USAC Task Timeout (in seconds) FOR TEST REPORT	600	


12800
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
12900
TENS
GR_EDTC
DATN
DBI

Company: BP Deepwater GoM Nakika Fourier field **Well: OCS G 32306 002 ST00BP0**

Input DLIS Files

DEFAULT	USI_IS_MAPC_036LUP	FN:42	PRODUCER	08-Jul-2010 09:08	13023.0 FT	12687.6 FT

Output DLIS Files

DEFAULT	USI_IS_MAPC_073PUP	FN:2	PRODUCER	09-Jul-2010 10:26	13015.0 FT	12680.0 FT

OP System Version: 17C0-154

USIT-D	SRPC-3971-Q1_2010_OP17_b	CAL-Y	17C0-154
GPIT-F	SRPC-3971-Q1_2010_OP17_b	MAPC-B	SKK-3934-MAST_b
EDTC-B	SKK-3882-EDTCB_b	ECRD	SRPC-3971-Q1_2010_OP17_b

PIP SUMMARY

Time Mark Every 60 S

CCL (CCLU)
-36 (----) 4

Transit Time 3FT (CE_TT8_3FT_AVE)
550 (US) 350

Transit Time 3FT (CE_TT7_3FT_AVE)
550 (US) 350

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Radioactive Marker

>60% Bond

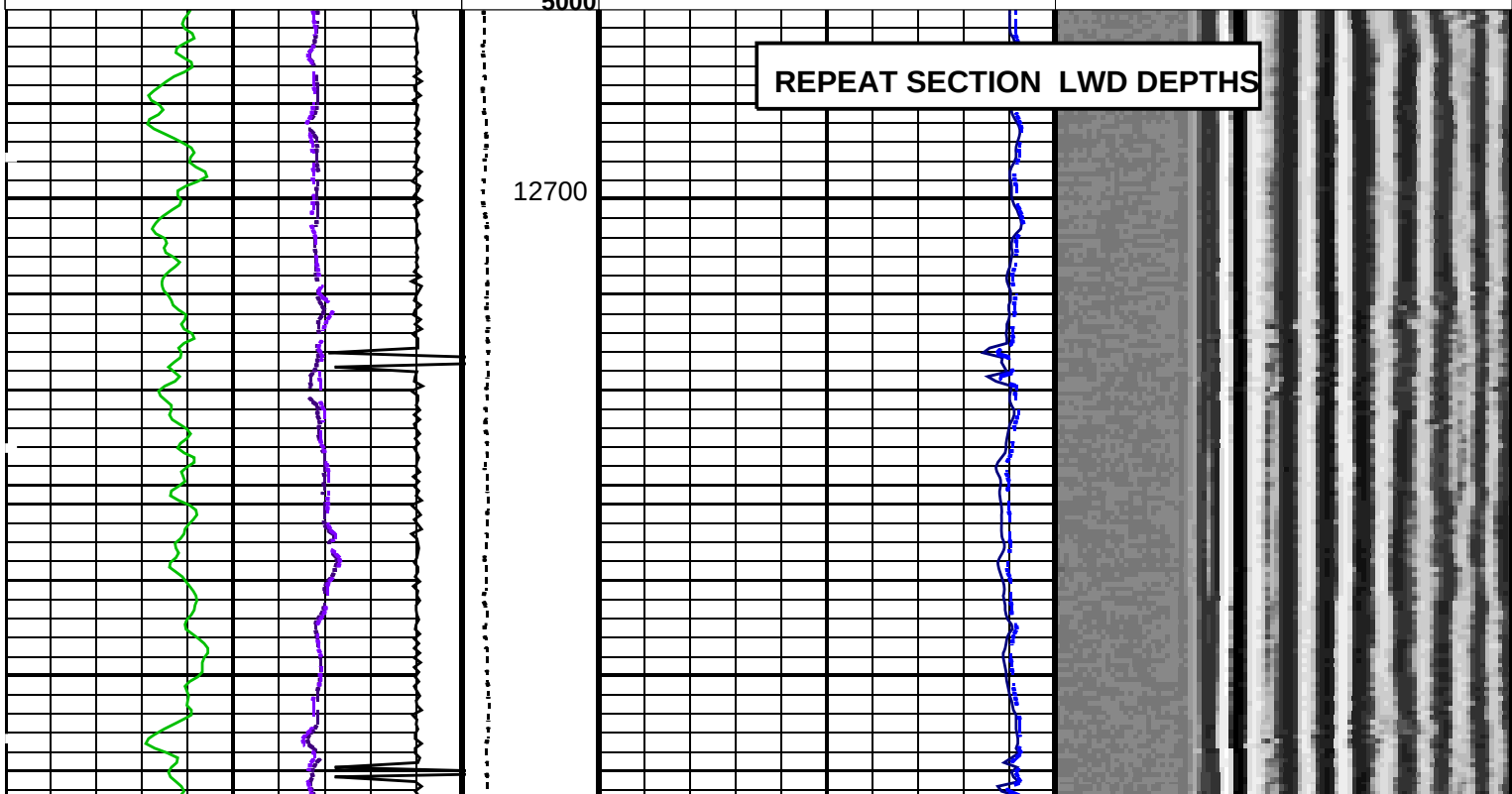
Discriminated Attenuation (DATN)
10 (DB/F) 0

Collars

Tension (TENS) (LBF)
3000
5000

Discriminated Bond Index (DBI)
1 (----) 0

Min Amplitude Max
VDL Variable Density (VDL)
200 (US) 1200



U_SUL4_MAST	MAST DSTC Slowness Upper Limit 4	0	US/F
U_SUL5_MAST	MAST DSTC Slowness Upper Limit 5	0	US/F
U_SUL6_MAST	MAST DSTC Slowness Upper Limit 6	0	US/F
U_SUL_FAST_MAST	MAST DSTC Slowness Upper Limit Fast	0	US/F
U_SUL_SLOW_MAST	MAST DSTC Slowness Upper Limit Slow	0	US/F
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	165	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	STAN	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	NO	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	85	DEGF
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Centered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	13.625	IN
CWEI	Casing Weight	88.20	LB/F
DFD	Drilling Fluid Density	12.70	LB/G
DO	Depth Offset for Playback	1.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	-50000.0000	OHMM
TD	Total Depth	13800	FT
TDD	Total Depth - Driller	13522.00	FT
TDL	Total Depth - Logger	13405.00	FT
TWS	Temperature of Connate Water Sample	-50000.00	DEGF

Format: 2_MAST_DBI_WF Vertical Scale: 5" per 100' Graphics File Created: 09-Jul-2010 10:27

OP System Version: 17C0-154

USIT-D	SRPC-3971-Q1_2010_OP17_b	CAL-Y	17C0-154
GPIT-F	SRPC-3971-Q1_2010_OP17_b	MAPC-B	SKK-3934-MAST_b
EDTC-B	SKK-3882-EDTCB_b	ECRD	SRPC-3971-Q1_2010_OP17_b

Input DLIS Files

DEFAULT	USI_IS_MAPC_038LUP	FN:46	PRODUCER	08-Jul-2010 09:08	13401.5 FT	5138.5 FT

Output DLIS Files

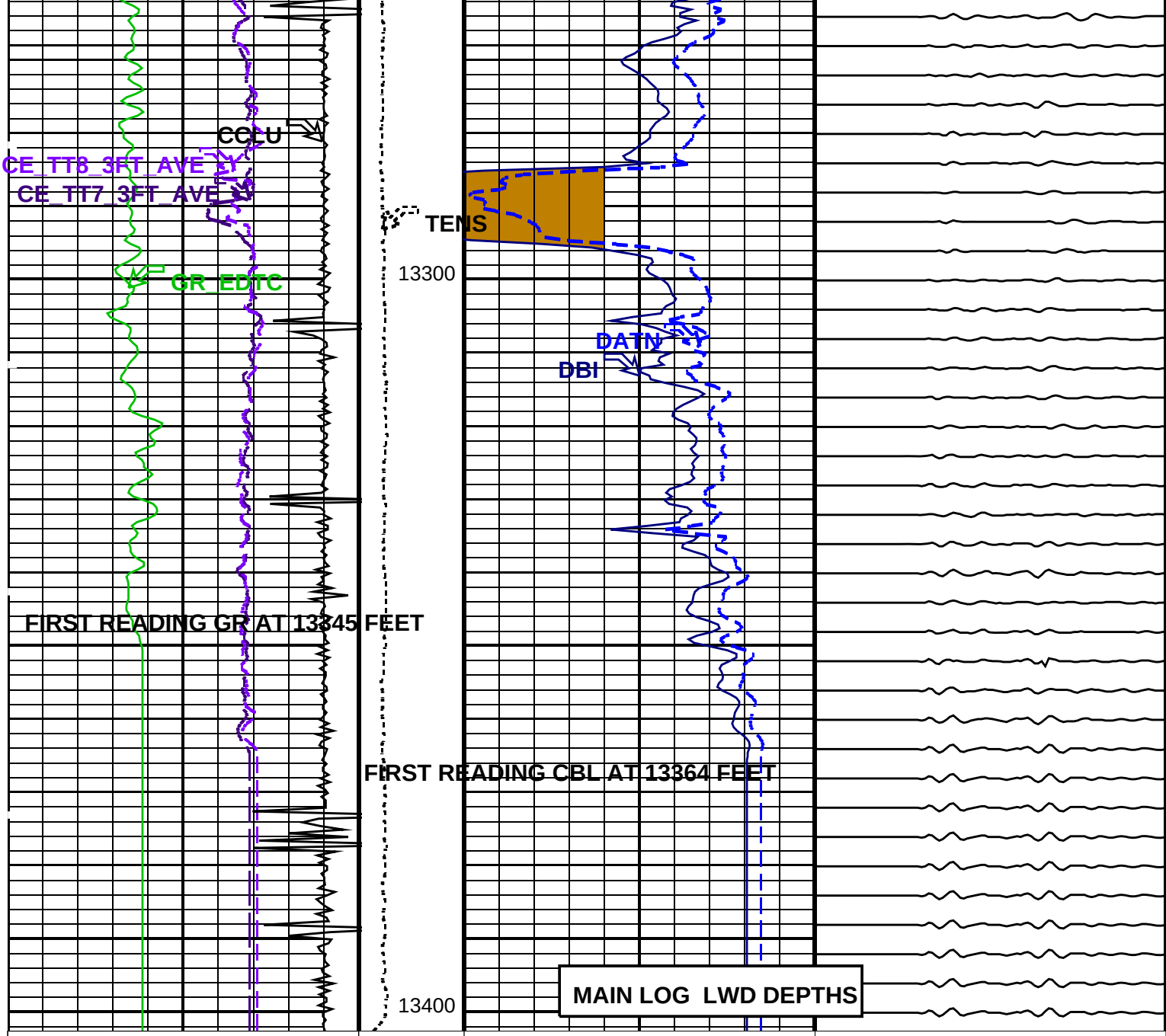
DEFAULT	USI_IS_MAPC_074PUP	FN:3	PRODUCER	09-Jul-2010 10:27

Schlumberger

REPEAT SECTION
LWD DEPTHS

DTF	Delta-T Fluid	221.6	US/F
DTM	Delta-T Matrix	56	US/F
DTSH_SELECT	Delta-T Shear Selection for Finalization	XD	
DWF7_SPEC	Channel/Station/Azimuth for VDL (DWF7) of Measurement 7	WFA7/9/1	
DWF8_SPEC	Channel/Station/Azimuth for VDL (DWF8) of Measurement 8	WFA8/5/1	
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.661468	
FIRING_TABLE	MAST Firing Table	** V **	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GOBO	Good Bond	12.117	MV
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
IMG_DTCO_SEL_MAST	Imaging Input DT Compressional Selection	CONSTANT_DTCO	
IMG_EST_DTCO_MAST	Imaging Estimated DT Compressional	120	US/F
IMG_RBS	Imaging Relative Bearing Selection	RB1	
ISSBAR	Barite Mud Switch	NOBARITE	
ITTS	Integrated Transit Time Source	DTCO	
MAST_AZIM_PROC_SWITCH	MAST Azimuth Process Switch	ON	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MATT	Maximum Attenuation	7.19423	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	22.1338	FT
MMSA	MAP Minimum Sonic Amplitude	0	MV
MSA	Minimum Sonic Amplitude	5.20811	MV
NFPI_ML	Free Pipe Amplitude for ML	3000	
NFPI_MU	Free Pipe Amplitude for MU	3000	
NRSA	Number of Receivers in Sub-Array	** V **	
PRES_MAST_DTC_CURVE_LL	MAST Compressional DT Slowness Curve Lower Limit for Presentation	40	US/F
PRES_MAST_DTC_CURVE_UL	MAST Compressional DT Slowness Curve Upper Limit for Presentation	240	US/F
PRES_MAST_DTC_IMAGE_LL	MAST Compressional DT Slowness Image Lower Limit for Presentation	40	US/F
PRES_MAST_DTC_IMAGE_UL	MAST Compressional DT Slowness Image Upper Limit for Presentation	240	US/F
PRES_MAST_DTST_CURVE_LL	MAST Stoneley DT Slowness Curve Lower Limit for Presentation	100	US/F
PRES_MAST_DTST_CURVE_UL	MAST Stoneley DT Slowness Curve Upper Limit for Presentation	700	US/F
PRES_MAST_DTST_IMAGE_LL	MAST Stoneley DT Slowness Image Lower Limit for Presentation	100	US/F
PRES_MAST_DTST_IMAGE_UL	MAST Stoneley DT Slowness Image Upper Limit for Presentation	700	US/F
PRES_MAST_DTS_CURVE_LL	MAST Share DT Slowness Curve Lower Limit for Presentation	40	US/F
PRES_MAST_DTS_CURVE_UL	MAST Share DT Slowness Curve Upper Limit for Presentation	540	US/F
PRES_MAST_DTS_IMAGE_LL	MAST Share DT Slowness Image Lower Limit for Presentation	40	US/F
PRES_MAST_DTS_IMAGE_UL	MAST Share DT Slowness Image Upper Limit for Presentation	540	US/F
PRES_MAST_SDT_TIME_WINDOW_LL	MAST Shear DT Time Windows Lower Limit in Alford Rotation for Presentation	0	US
PRES_MAST_SDT_TIME_WINDOW_UL	MAST Shear DT Time Windows Upper Limit in Alford Rotation for Presentation	20000	US
RBC	Relative Bearing Correction Allow/Disallow	DISALLOW	
ROTIN_XD	Alford Rotation X Dipole Measurement Number	DISALLOW	
ROTIN_YD	Alford Rotation Y Dipole Measurement Number	DISALLOW	
ROTWINDOW_CTRL	Alford Rotation Window Control	ON	
ROT_AI	Dipole Waveform Rotation Averaging Depth Interval	0	FT
ROT_FIL_LENG	Alford Rotation Filter Length	0	
ROT_TWD	Alford Rotation Window Time Width	0	US
ROT_TWO	Alford Rotation Window Time Offset	0	US
ROT_XFH	Alford Rotation Filter High Cutoff	0	HZ
ROT_XFL	Alford Rotation Filter Low Cutoff	0	HZ
SHT	Surface Hole Temperature	85	DEGF
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
STCAL	STC Algorithm	** V **	
STCSEL1	Station Selection for STC for Measurement 1	** V **	
STCSEL2	Station Selection for STC for Measurement 2	** V **	
STCSEL3	Station Selection for STC for Measurement 3	** V **	
STCSEL4	Station Selection for STC for Measurement 4	** V **	
STCSEL5	Station Selection for STC for Measurement 5	** V **	
STCSEL6	Station Selection for STC for Measurement 6	** V **	
STCSEL_FAST	Station Selection for STC for DT_FAST	** V **	
STCSEL_SLOW	Station Selection for STC for DT_SLOW	** V **	
TRMIN	Alteration Detection Minimum Transmitter Receiver Spacing for Processing	3.0	FT
TX_AMP	Transmitter Amplitude Factor	** V **	
U_SLL1_MAST	MAST DSTC Slowness Lower Limit 1	0	US/F
U_SLL2_MAST	MAST DSTC Slowness Lower Limit 2	0	US/F
U_SLL3_MAST	MAST DSTC Slowness Lower Limit 3	0	US/F
U_SLL4_MAST	MAST DSTC Slowness Lower Limit 4	0	US/F
U_SLL5_MAST	MAST DSTC Slowness Lower Limit 5	0	US/F
U_SLL6_MAST	MAST DSTC Slowness Lower Limit 6	0	US/F
U_SLL_FAST_MAST	MAST DSTC Slowness Lower Limit Fast	0	US/F
U_SLL_SLOW_MAST	MAST DSTC Slowness Lower Limit Slow	0	US/F
U_SUL1_MAST	MAST DSTC Slowness Upper Limit 1	0	US/F
U_SUL2_MAST	MAST DSTC Slowness Upper Limit 2	0	US/F
U_SUL3_MAST	MAST DSTC Slowness Upper Limit 3	0	US/F

DLIS Name	Description	Value	
USIT-D: Ultrasonic Imaging - D			
	Corrosion range minimum	-0.076	IN
	Corrosion range maximum	0.076	IN
	T^3 Processing Length for FPM	26.648	US
AGMN	Minimum Gain of Cartridge	-4	DB
AGMX	Maximum Gain of Cartridge	48	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	13.625	IN
CDUN	Curves Unit Declared in Presentation Manager	IN	
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	12.425	IN
CYST	Casing Yield Strength	0	PSI
DFVL	Default Fluid Velocity	206	US/F
DOT	Diameter of Transducer Sensor	6.938	IN
EMXV	EMEX Voltage	125	V
FDII	FPM Data Interpolation Interval	0	FT
FSOD	Fluid Slowness Fits Casing Outer Diameter	0_OFF	
IMAR	Image Rotation	RB	
MW	Mud Weight	12.7	LB/G
OPLEV	USIT Remove Flagged Data Level	level2	
RCOD	Reference Calibrator Outer Diameter	7	IN
RCSO	Reference Calibrator Standoff	1.37795	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
SDNV	Number of Vertical Samples used for Micro-debonding Computation	5	
SDTHOR	Acoustic Impedance STD Horizontal Threshold for Micro-debonding	0.5	
SDTVER	Acoustic Impedance STD Vertical Threshold for Micro-debonding	0.3	
SUBT	Ultrasonic Subassembly Type	Sub_10_34_inch_S	
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	170	
THDL	Minimum Search Thickness (percentage of nominal)	85	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.6	IN
TMUC	Type of Mud	OBM	
U-USIT_RFWB	USIT Remove Flagged Data Window Begin	0	US
U-USIT_RFWE	USIT Remove Flagged Data Window End	511	US
UMAO	USIT Measurement Angular Offset	-10	DEG
UPAT	Emission Pattern	Pattern_300K	
USIT_USAC_TASK_ALLOW	USIT USAC Allow Task after Power Up	YES	
USIT_USAC_TASK_TIMEOUT	USIT USAC Task Timeout (in seconds) FOR TEST REPORT	600	
USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_10_34_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_60U_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	29	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.48	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.01	MRAY
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	5	V
GPIT-F: General Purpose Inclinometer			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
BOOTVN	Downhole Firmware Version	1.0	
FWVN	Downhole Firmware Version	1.0	
GPITF_LOGGING_SPEED	Max Logging Speed	3600_FPH	
ICMO	Inclinometry Computation Mode	CASED_HOLE	
MDEC	Magnetic Field Declination	-0.99895	DEG
MAPC-B: Multimode Array Sonic Power Cartridge			
AZIM_SELECT	Azimuth Reference Selection	NONE	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	165	DEGF
BILI	Bond Index Level for Zone Isolation	0.6	
BISS	Bond Index Source Selection for BIQL	DBI	
BS	Bit Size	14.750	IN
CBRA	CBL LQC Reference Amplitude in Free Pipe	43	MV
CDTS	C-Delta-T Shale	100	US/F
CE_DCBLSEL	DCBL Selection for Cement Evaluation	3_5FT	
CE_VDLGRA	VDL Manual Gain Rate Array for Cement Evaluation	** V **	
CE_VDLSEL	VDL Selection for Cement Evaluation	MU_5FT	
CE_VDL_MODE	DCBL/VDL Mode for Cement Evaluation	STANDARD	
CE_VFILSWA	VDL Filter Switch Array for Cement Evaluation	** V **	
CLASSAL	Classification Algorithm	** V **	
CMCF	CBL Cement Type Compensation Factor	1	
CRVIN_MF	Alteration Detection Input Number for Monopole Far	DISALLOW	
CRVIN_ML	Alteration Detection Input Number for Monopole Lower	DISALLOW	
CRVIN_MU	Alteration Detection Input Number for Monopole Upper	DISALLOW	
CTHI	Casing Thickness	0.635048	IN
DCRMVL	DC Offset Removal Option	DC_MULTIPLE	
DLHS	Hole Diameter Source for SOBS Channel	AUTO	
DTCO_SELECT	Delta-T Compressional Selection for Finalization	MF	
DTF	Delta-T Fluid	[illegible]	US/F

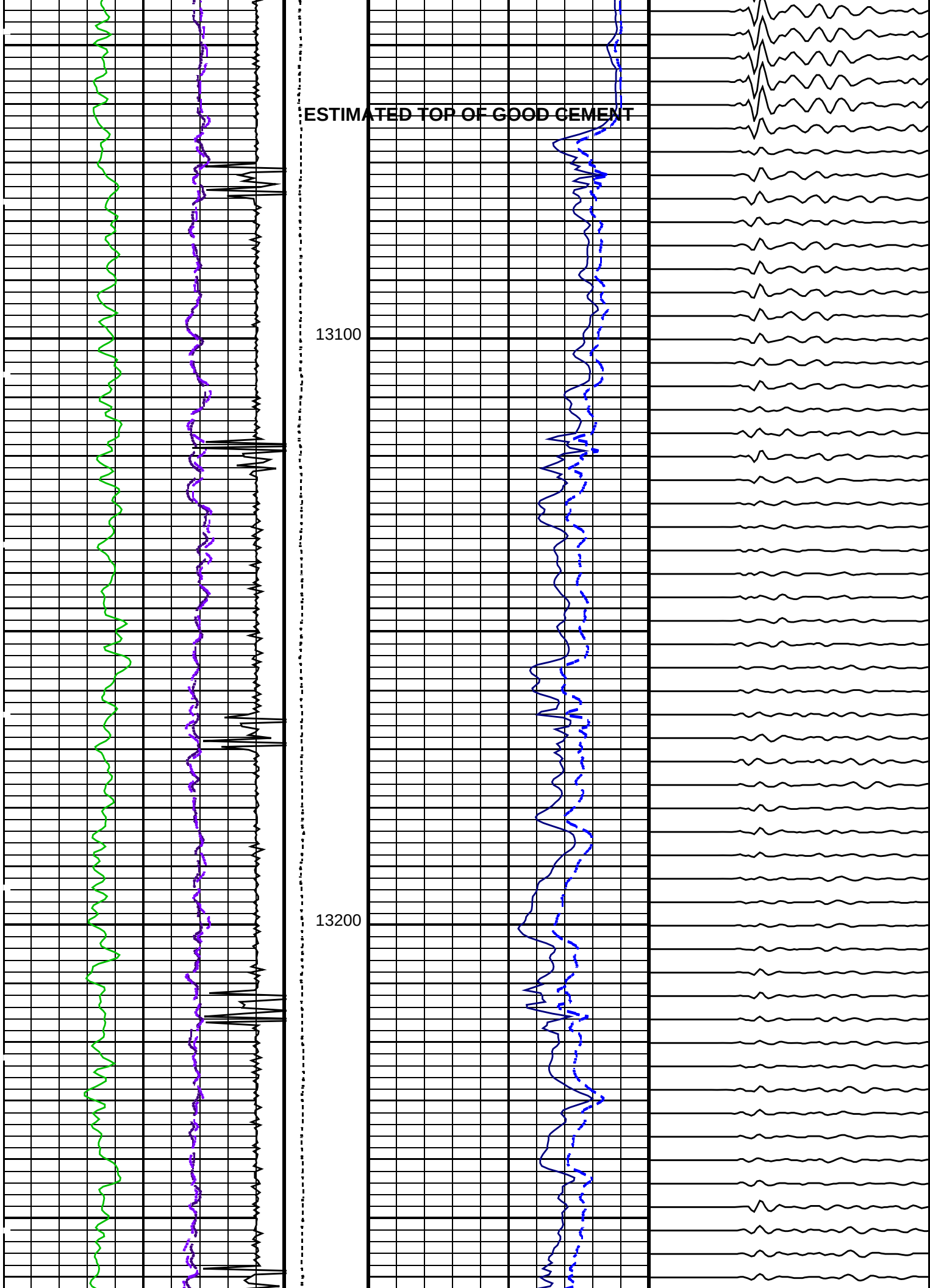


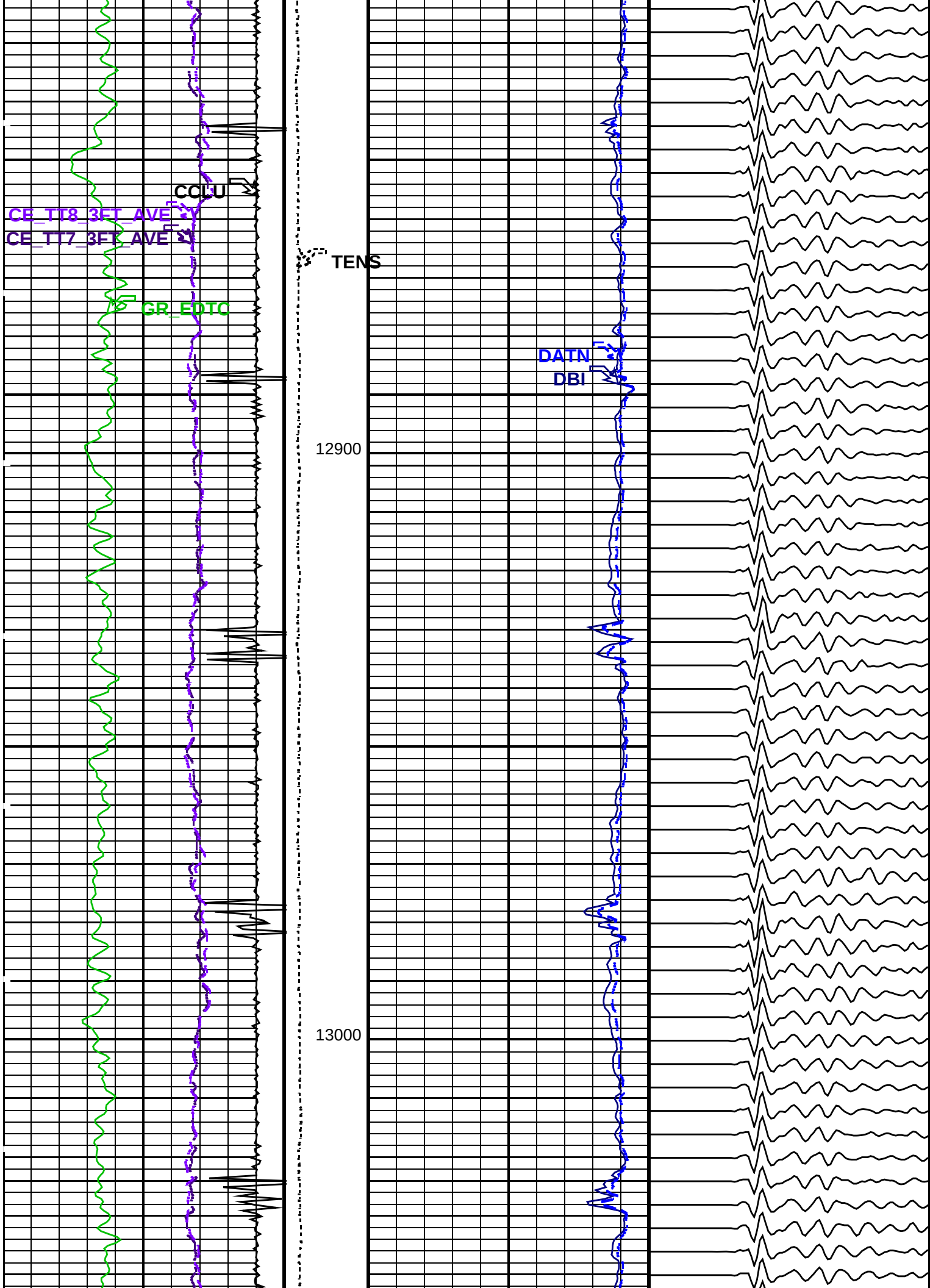
Collars	Tension (TENS) (LBF) 3000 – 5000	Discriminated Bond Index (DBI) 1 (----) 0	VDL Waveforms (VDL) 200 (US) 1200
Radioactive Marker		Discriminated Attenuation (DATN) 10 (DB/F) 0	
Gamma Ray (GR_EDTC) 0 (GAPI) 100		>60% Bond	
Transit Time 3FT (CE_TT7_3FT_AVE) 550 (US) 350			
Transit Time 3FT (CE_TT8_3FT_AVE) 550 (US) 350			
CCL (CCLU) -36 (----) 4			

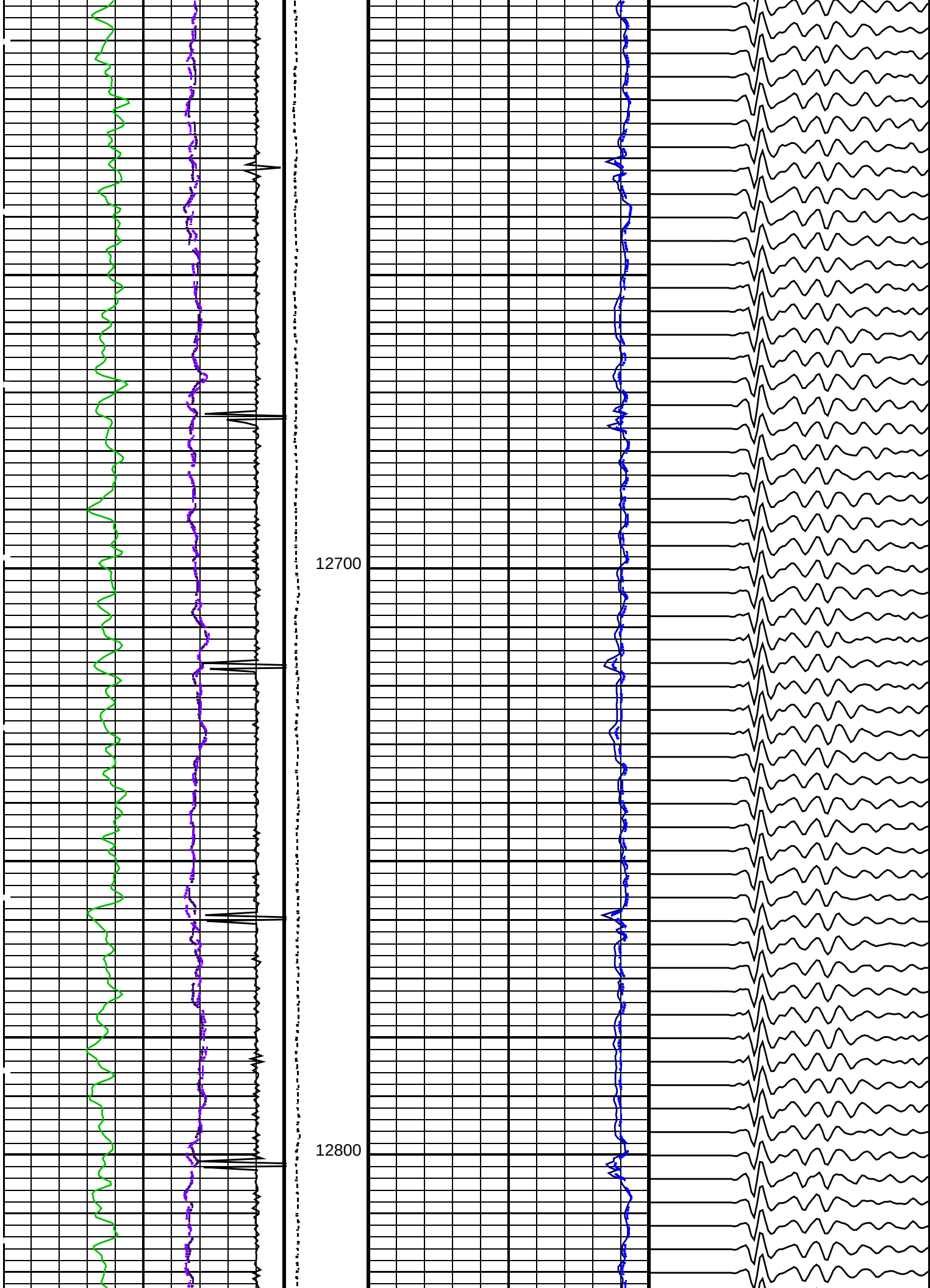
PIP SUMMARY

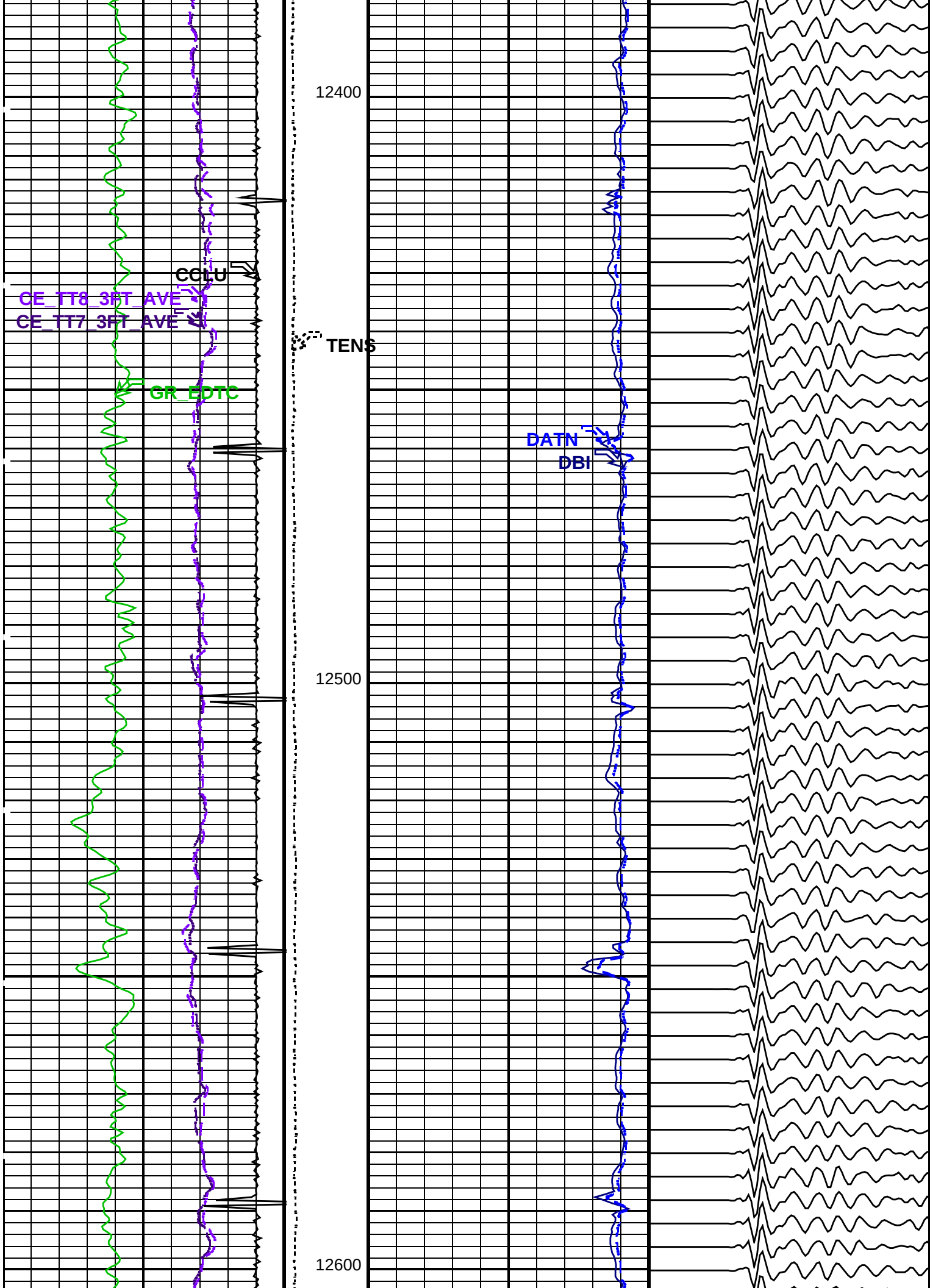
Time Mark Every 60 S

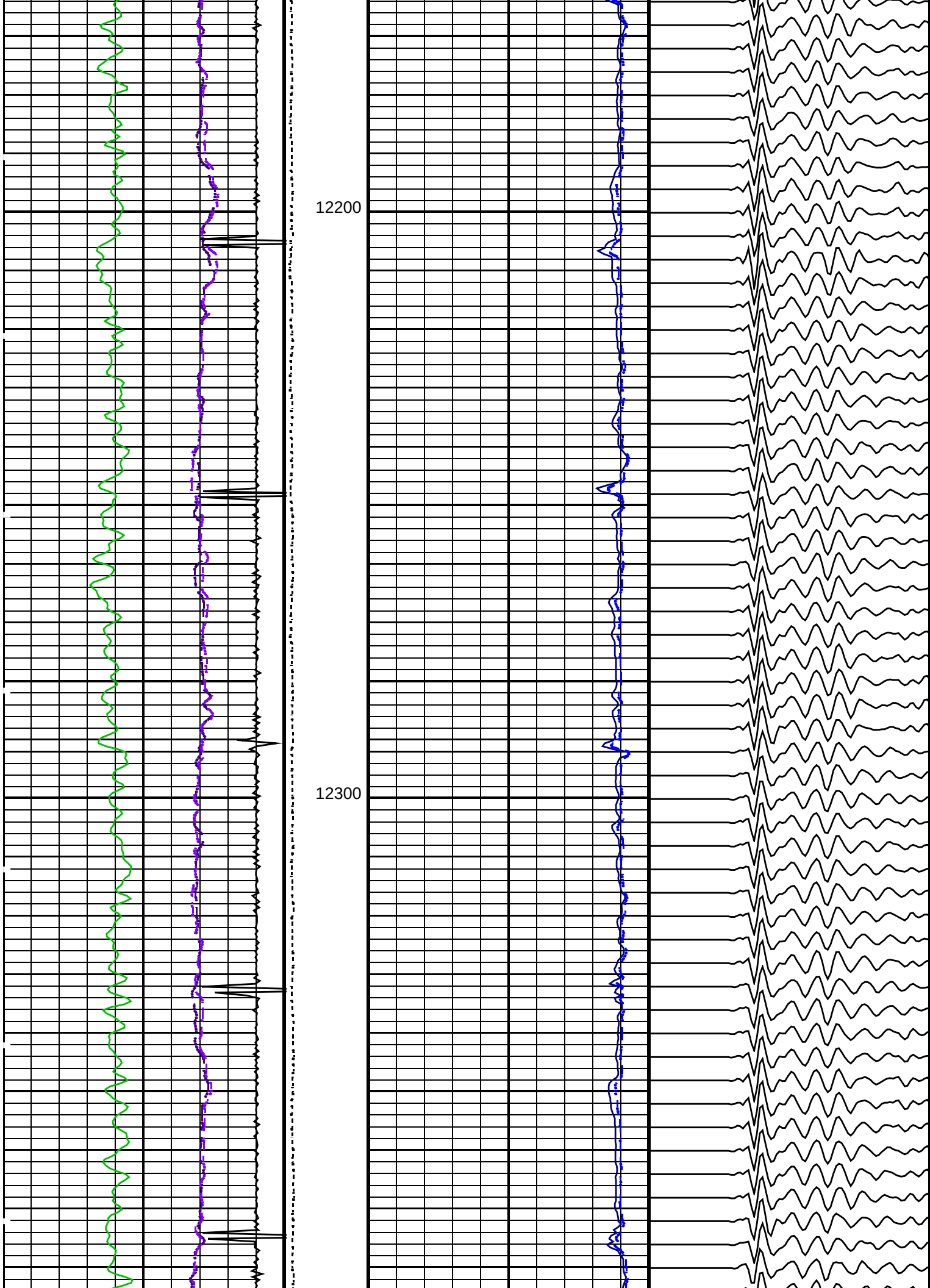
Parameters

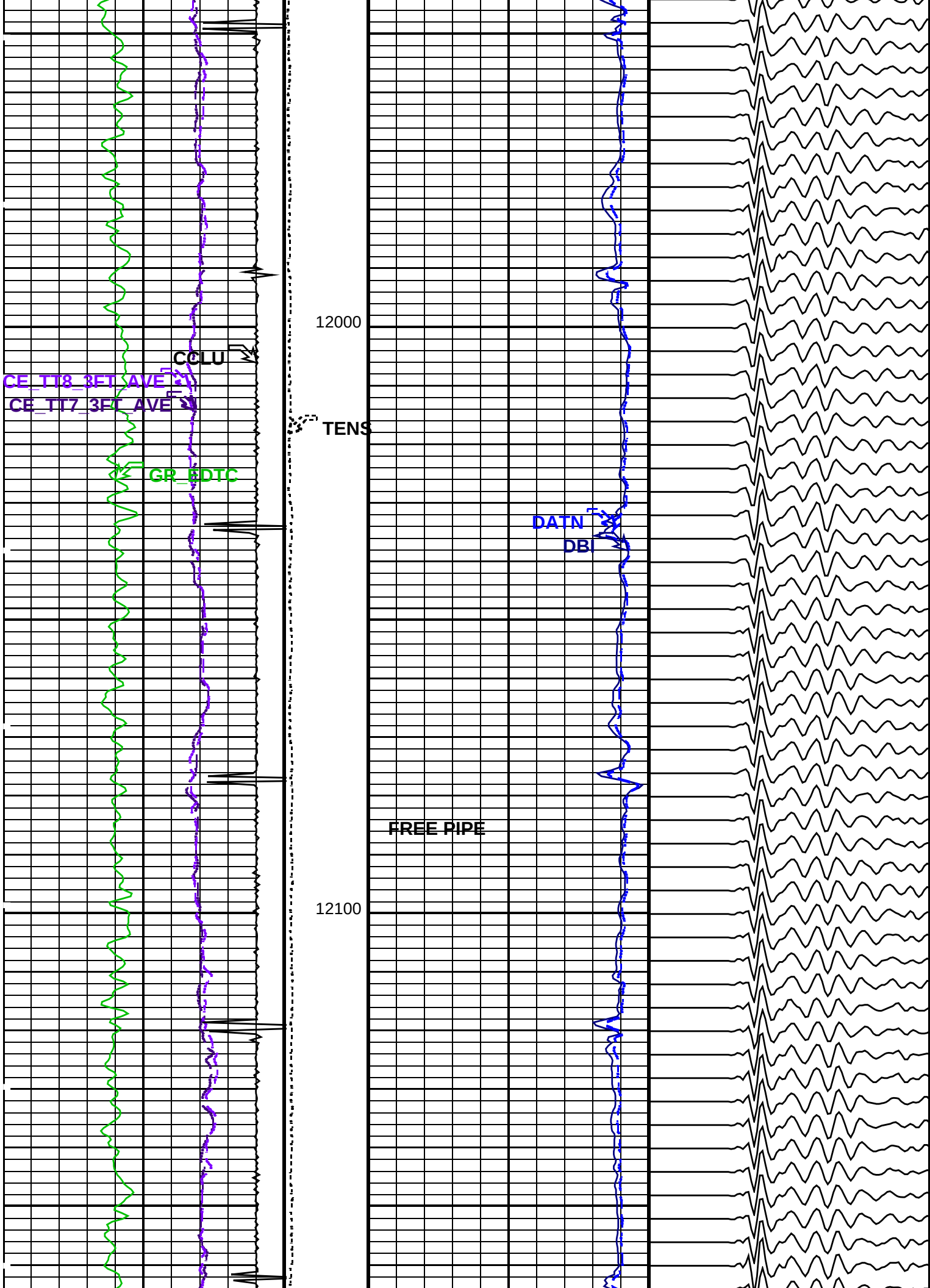

ESTIMATED TOP OF GOOD CEMENT
13100
13200

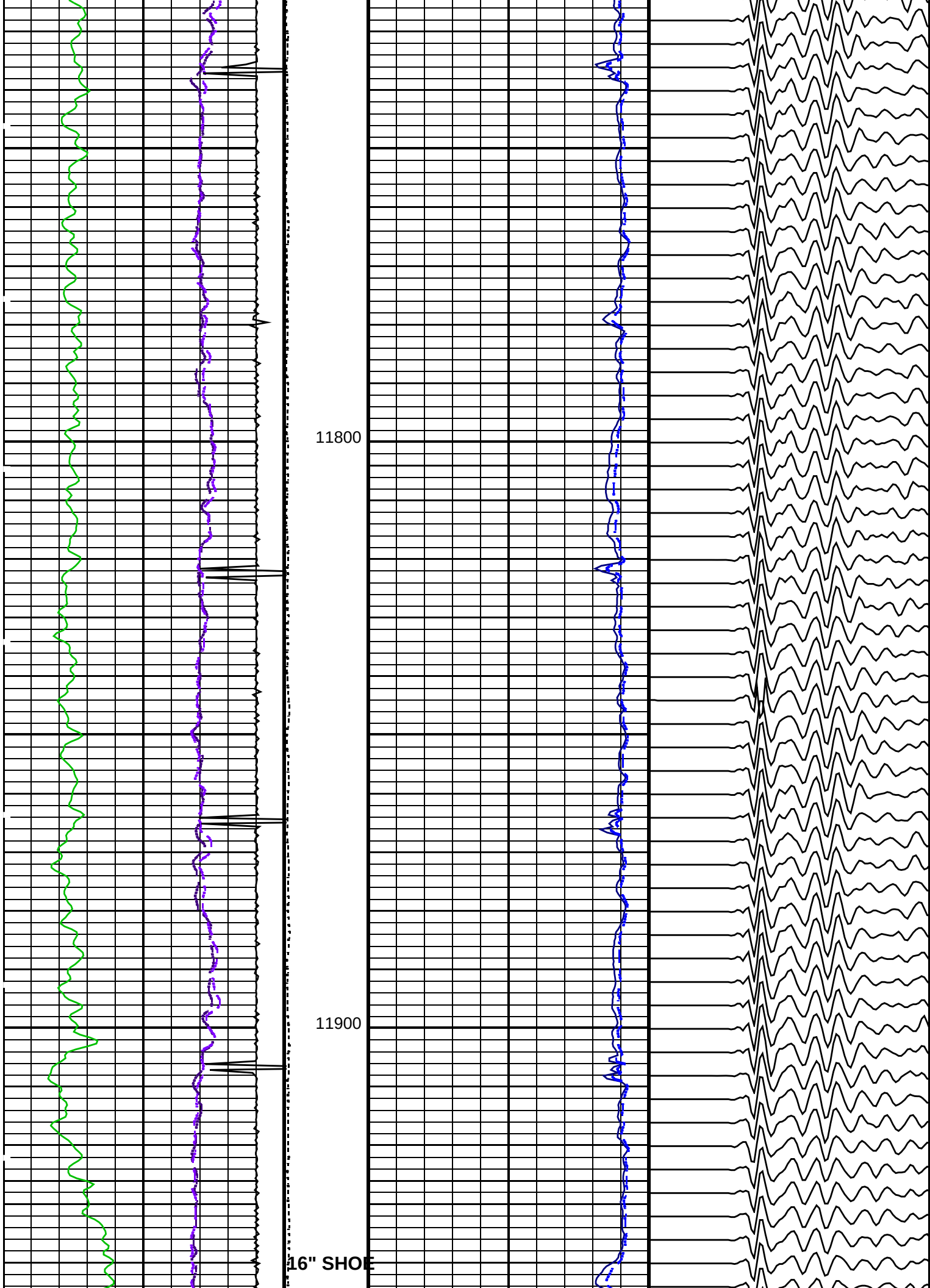

CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI
12900
13000

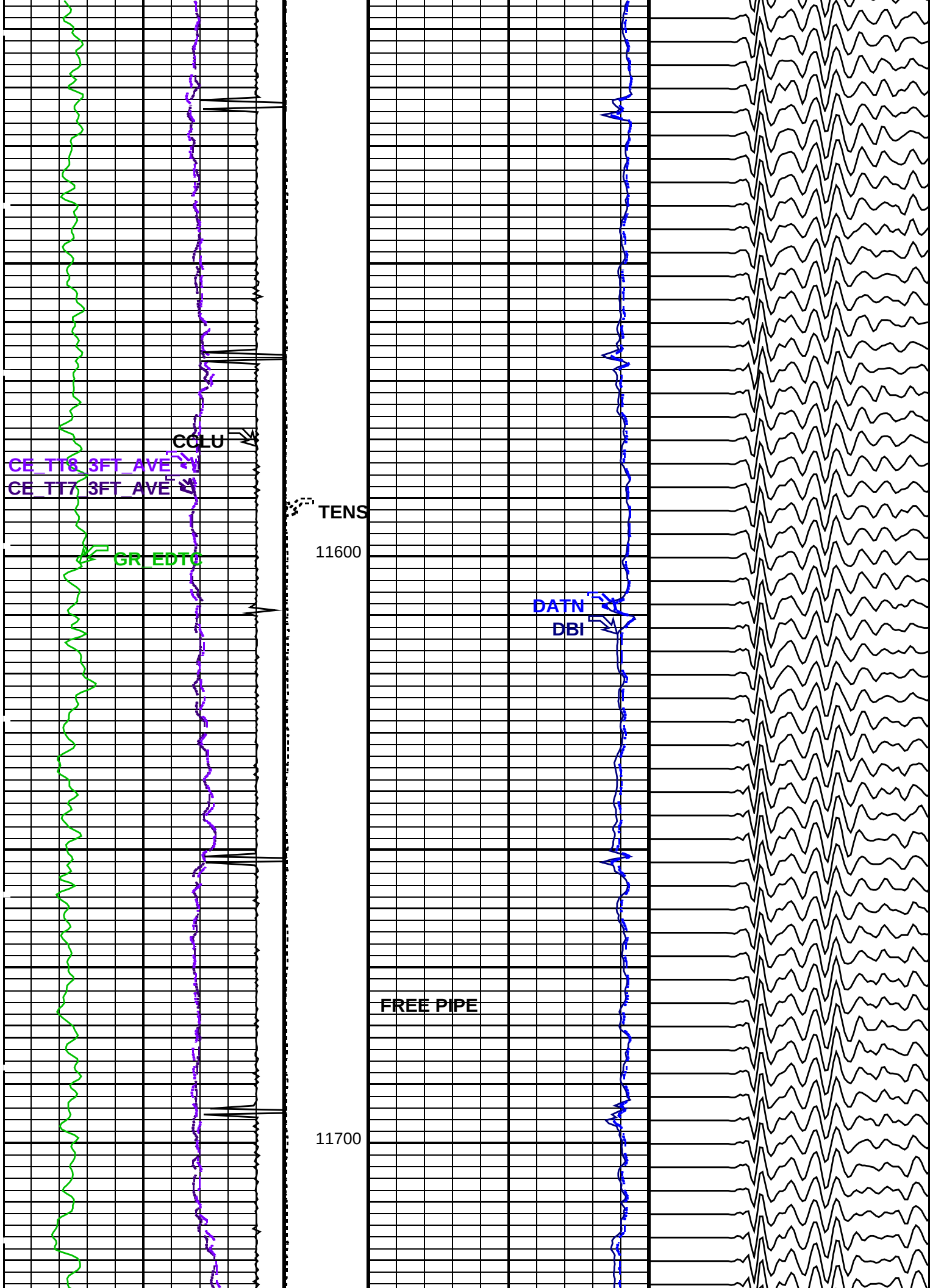

12700
12800

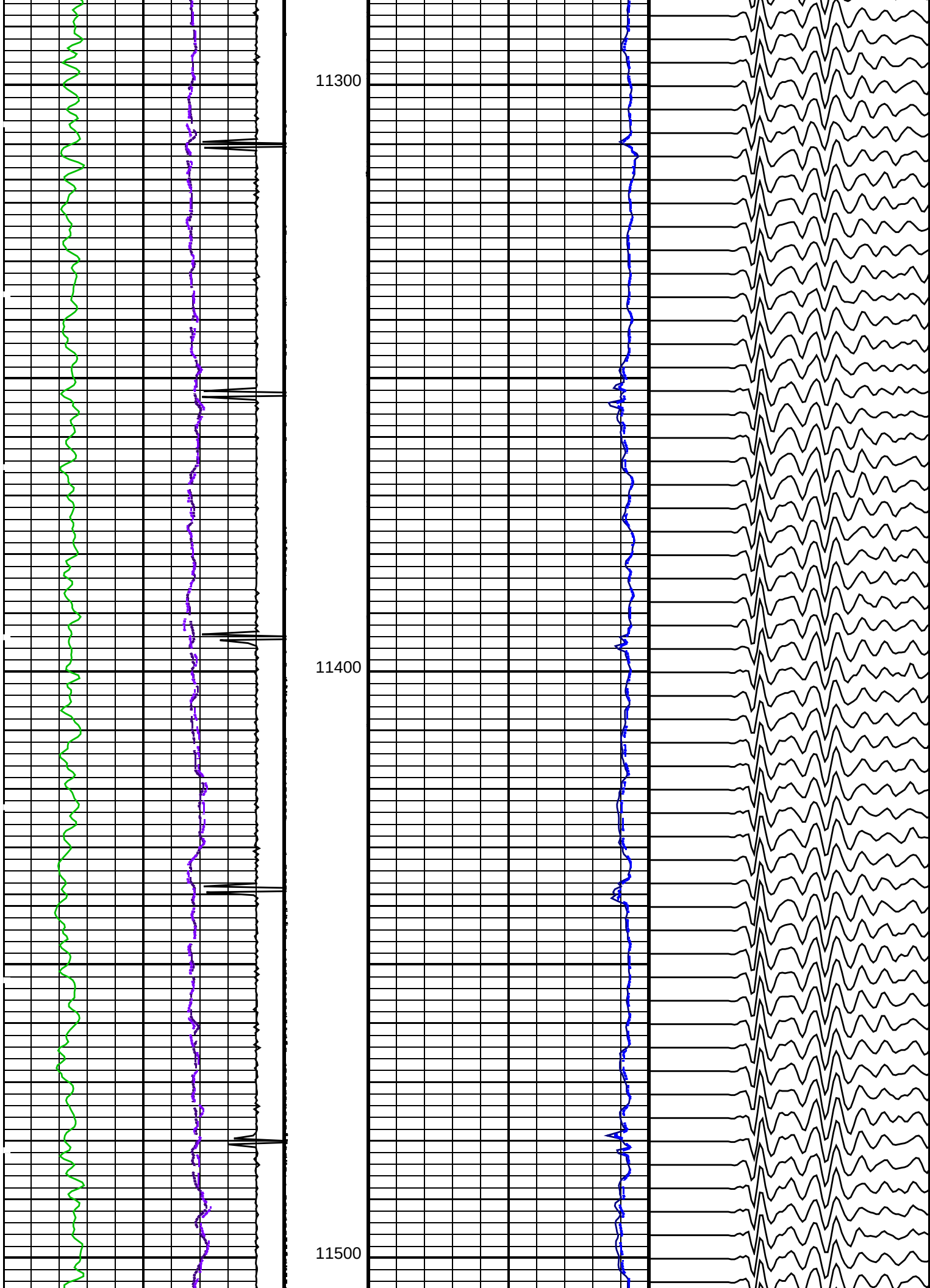

12400
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI
12500
12600


12200
12300


12000
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI
FREE PIPE
12100


11800
11900
16" SHOE


CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
11600
DATN
DBI
FREE PIPE
11700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11400
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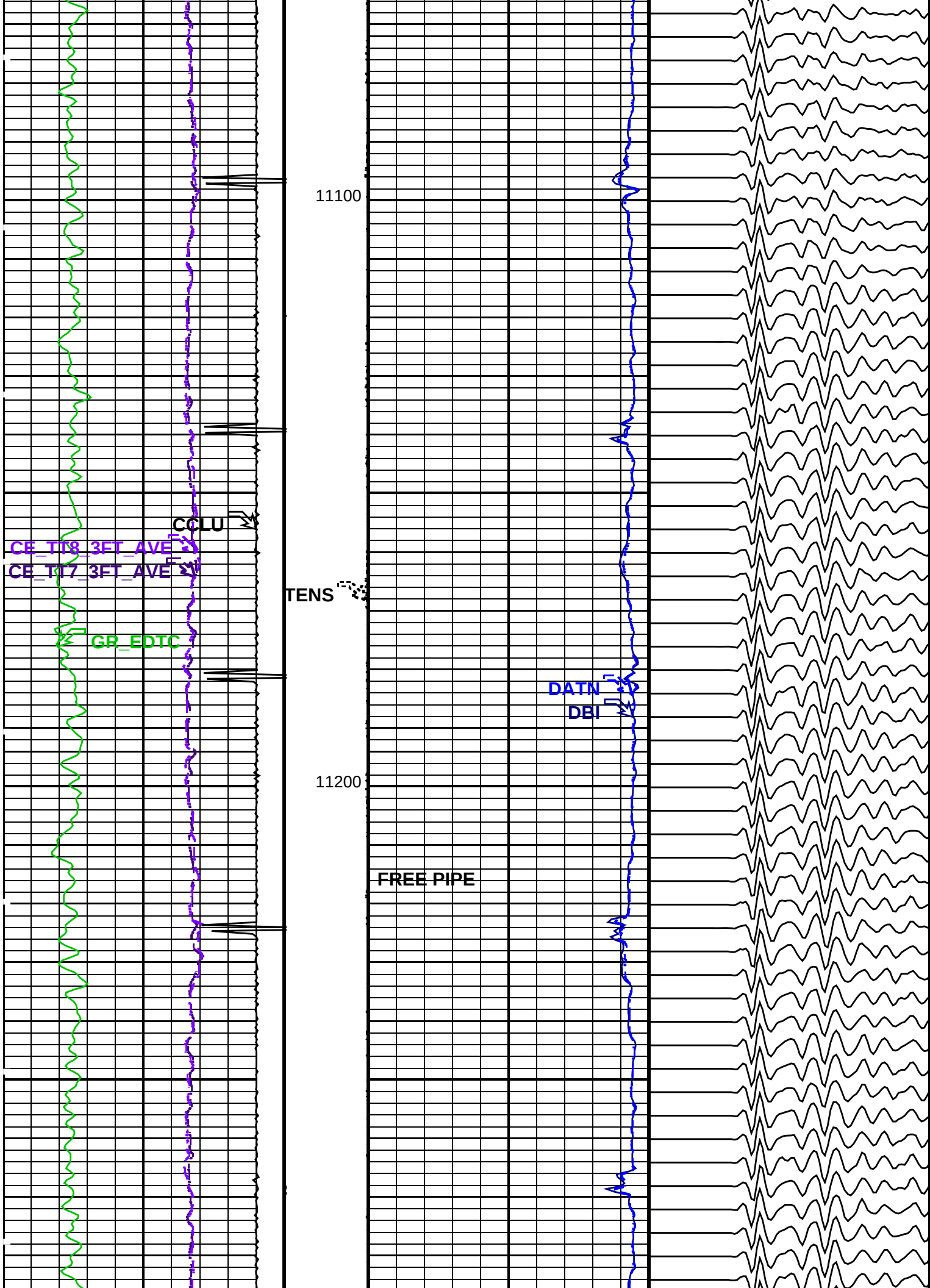
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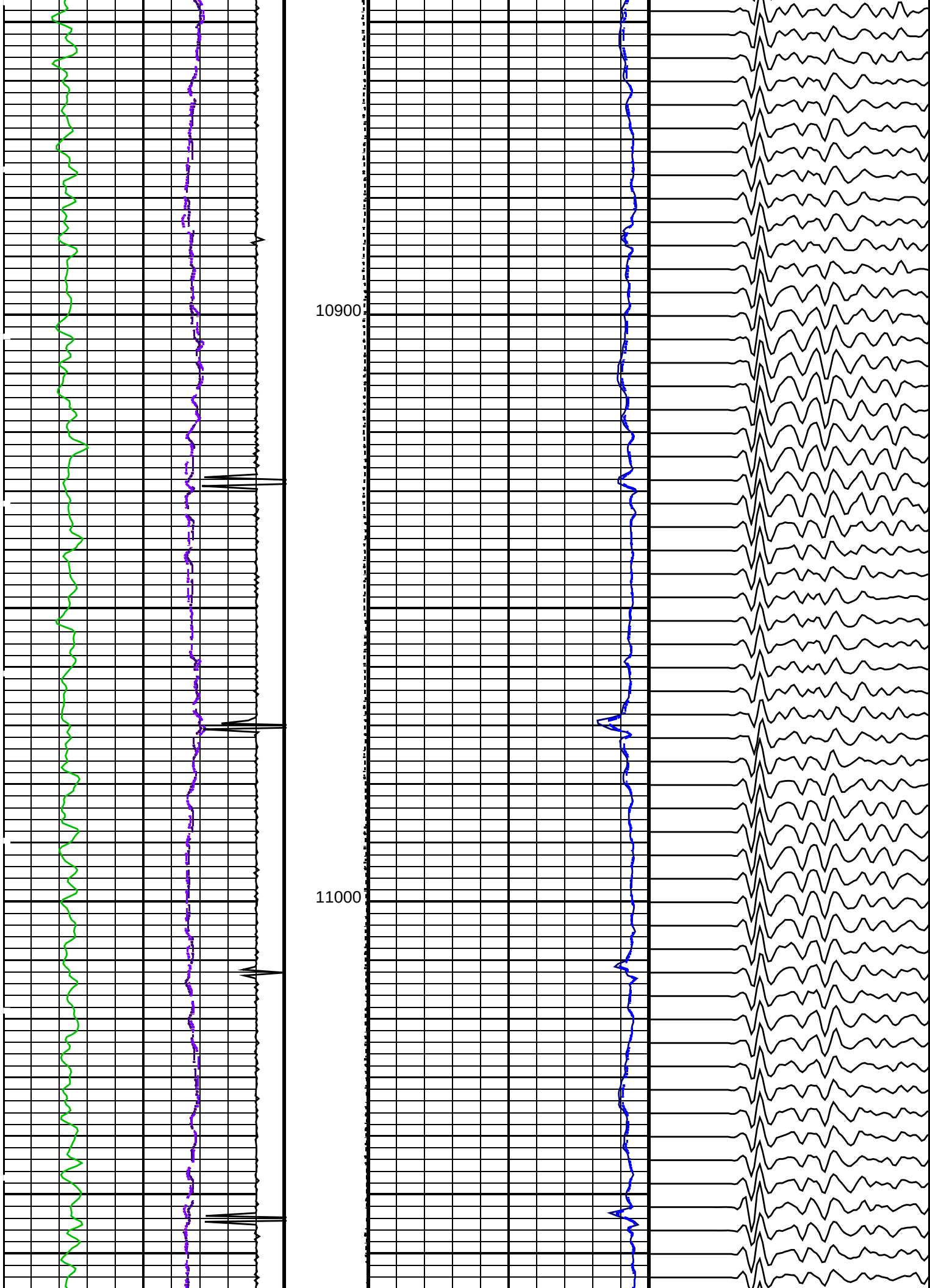
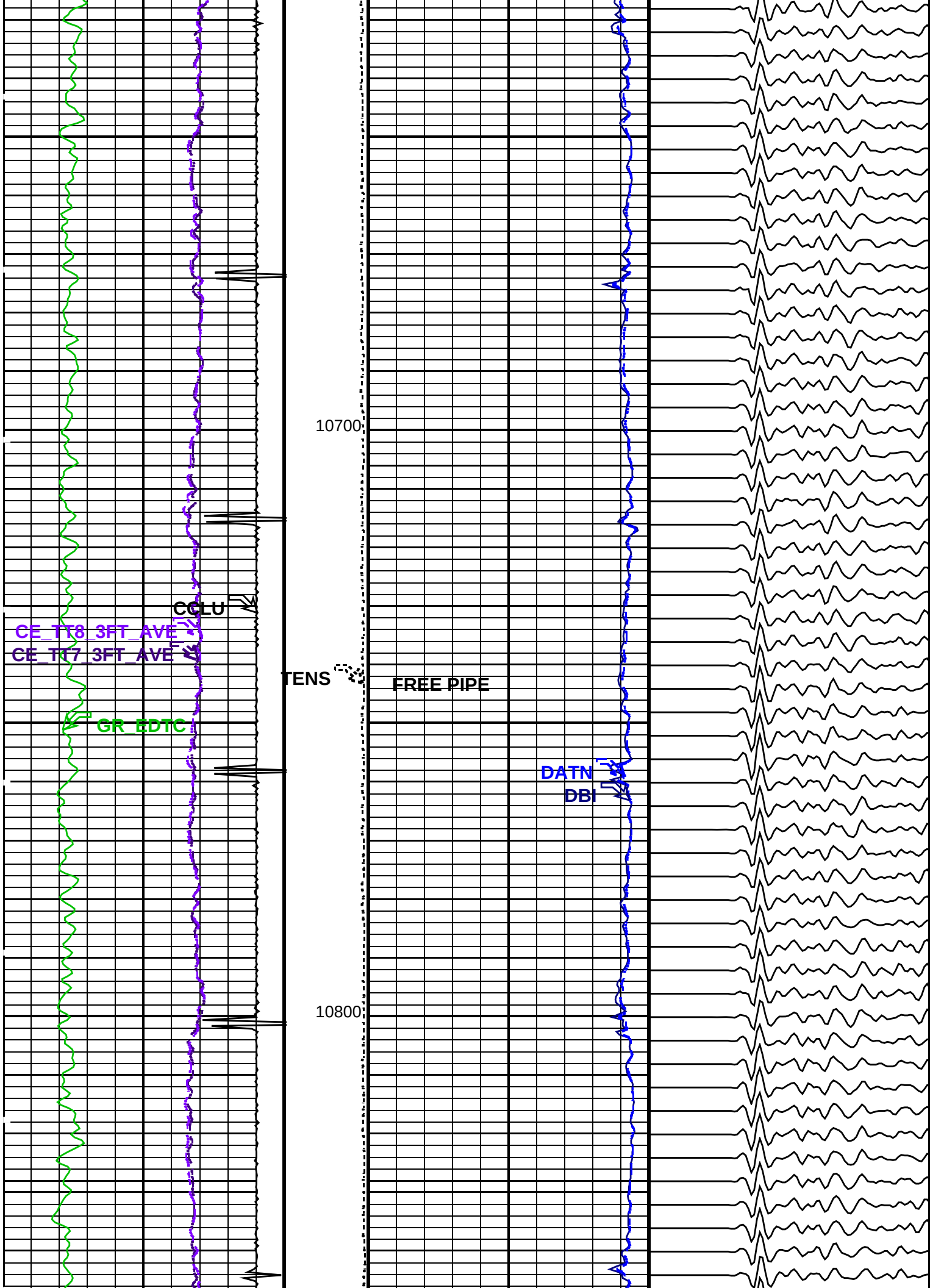
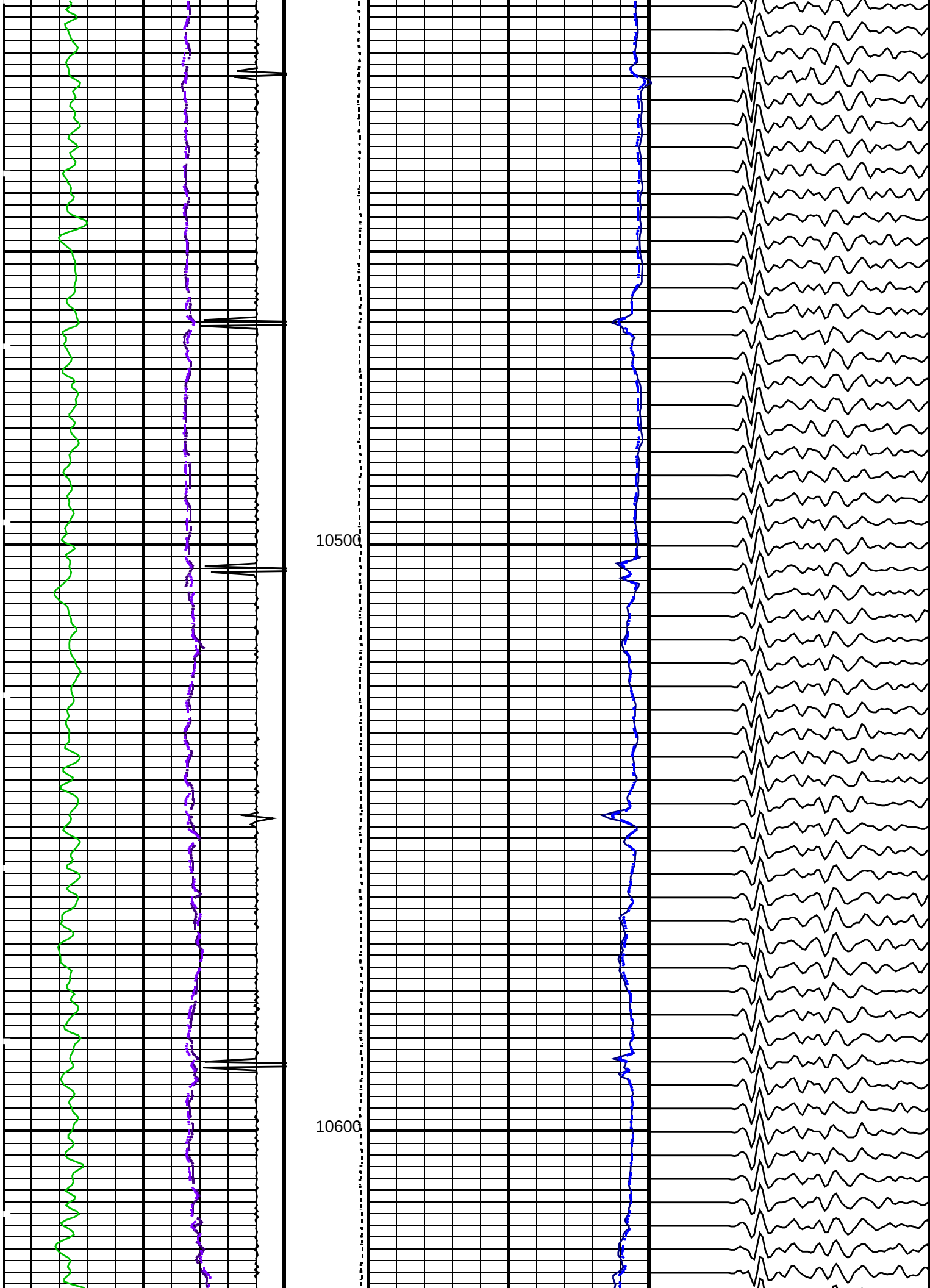
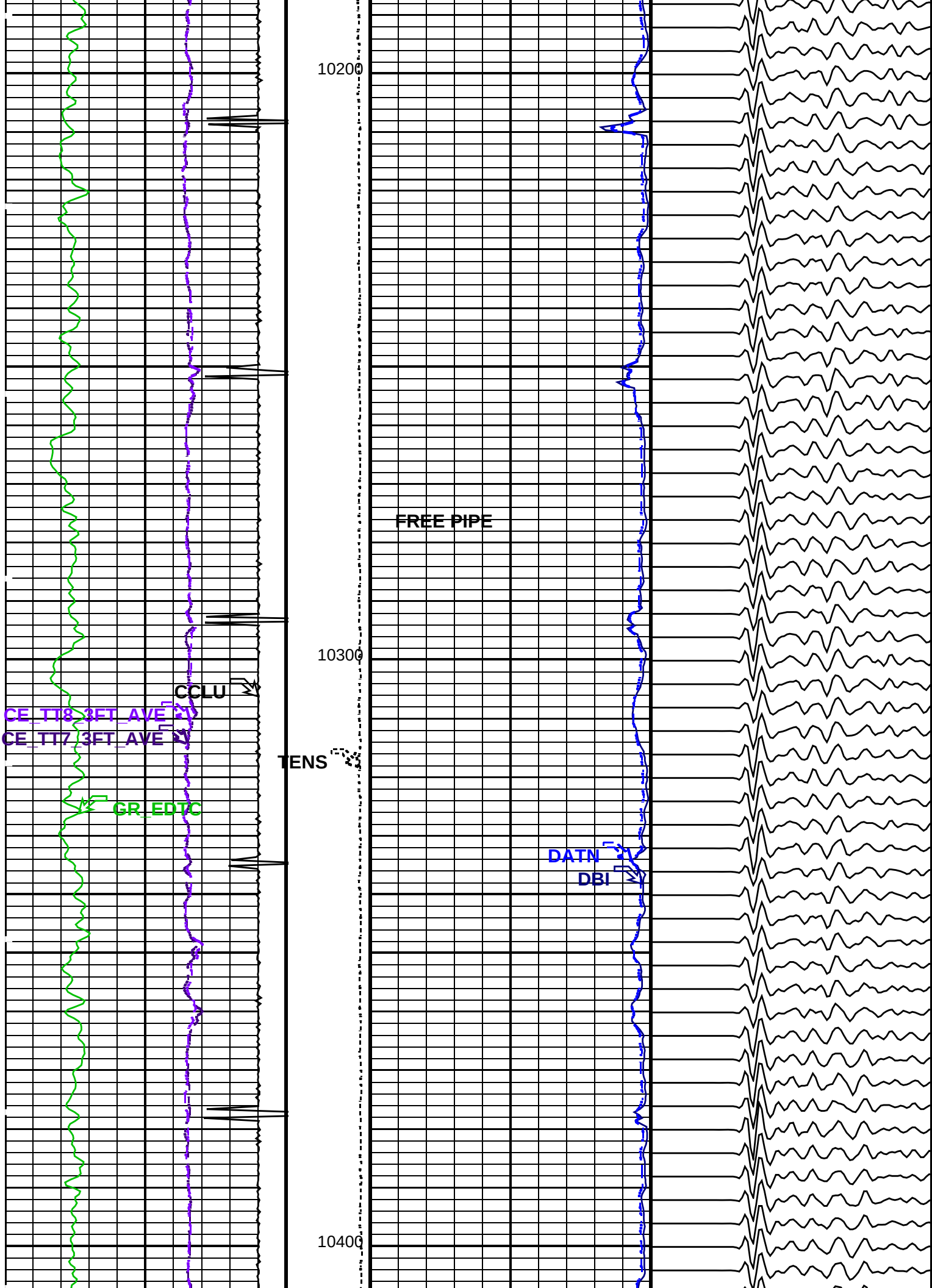
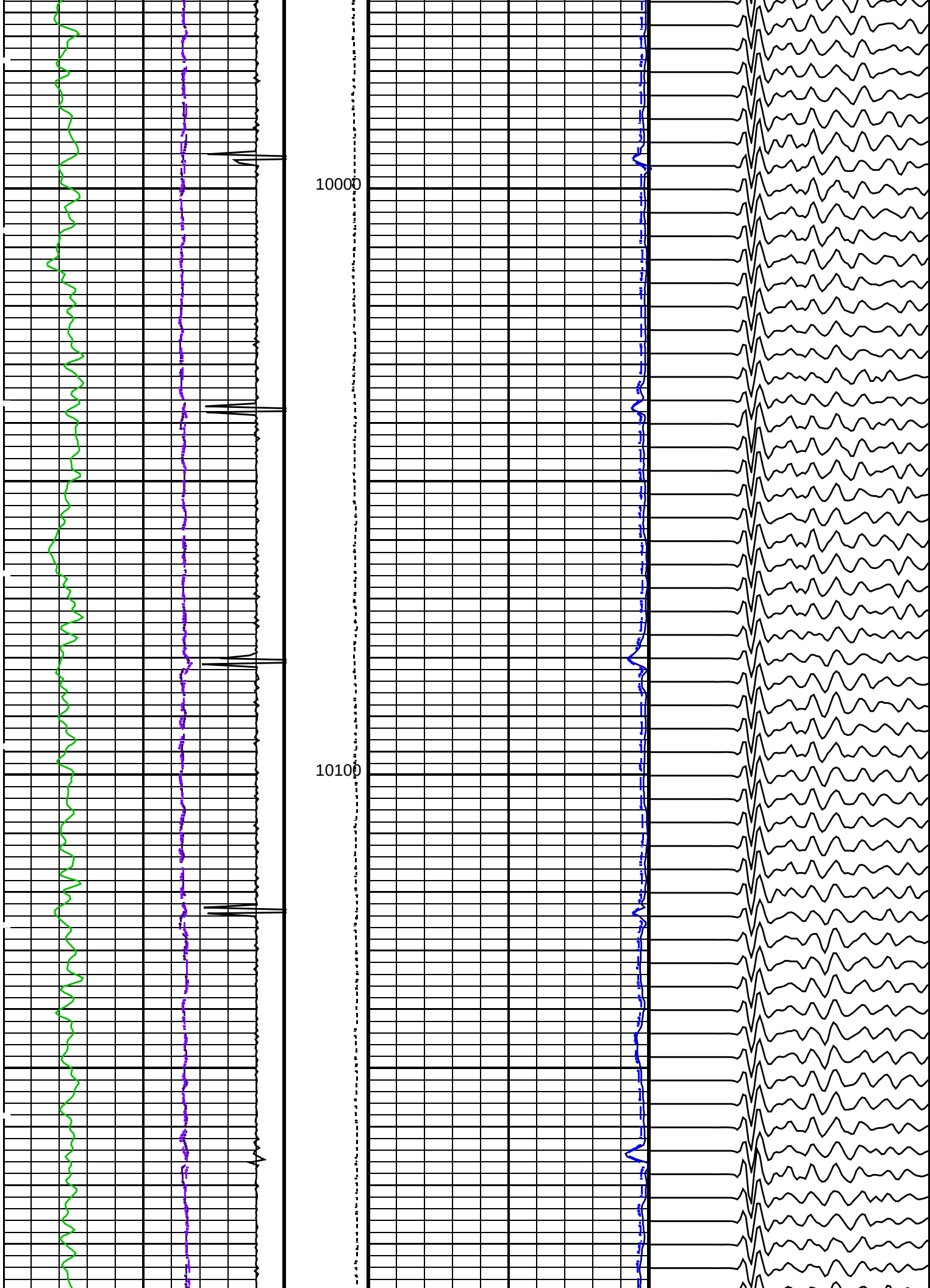
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI
11200
FREE PIPE

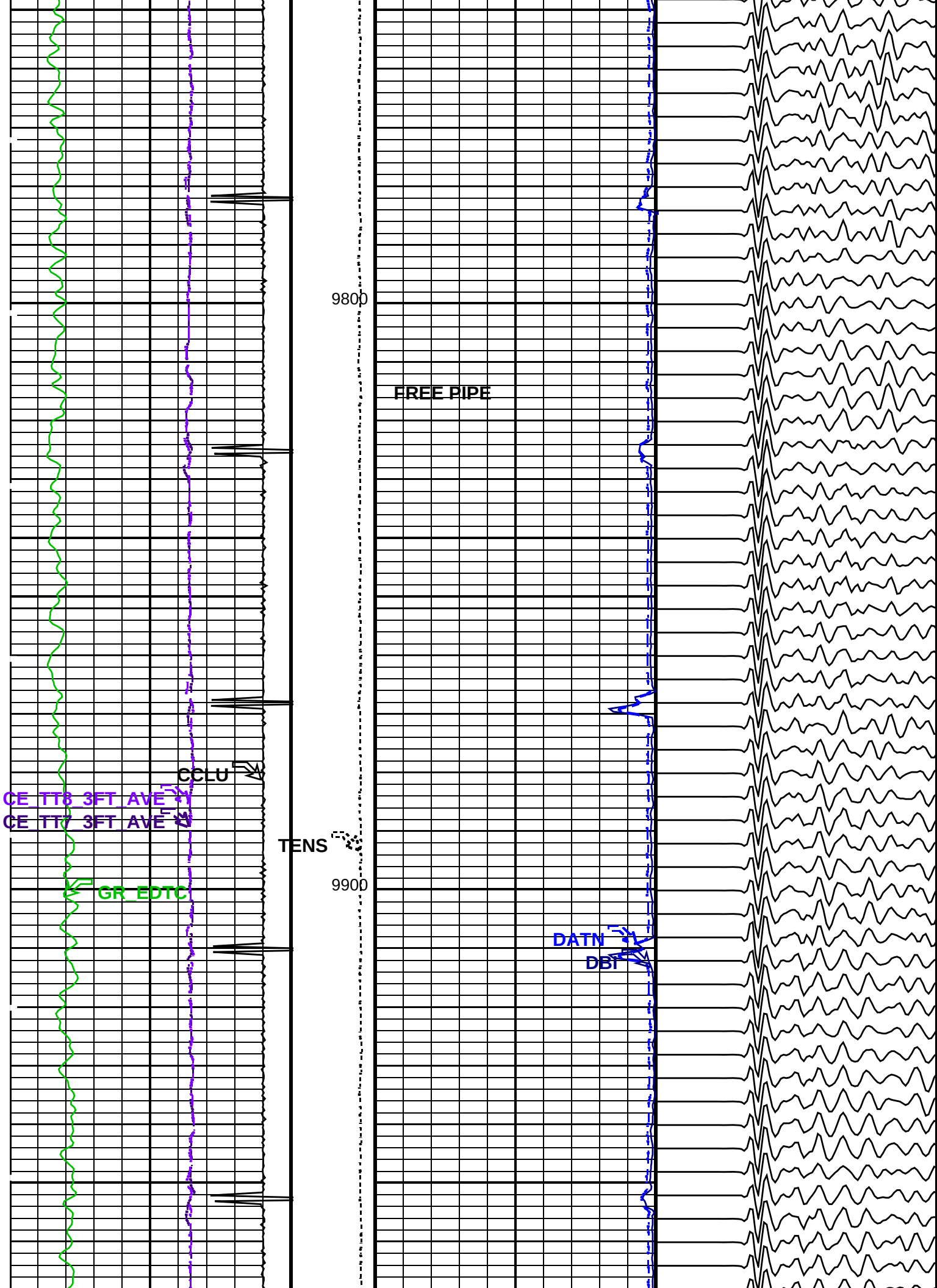

10900
11000

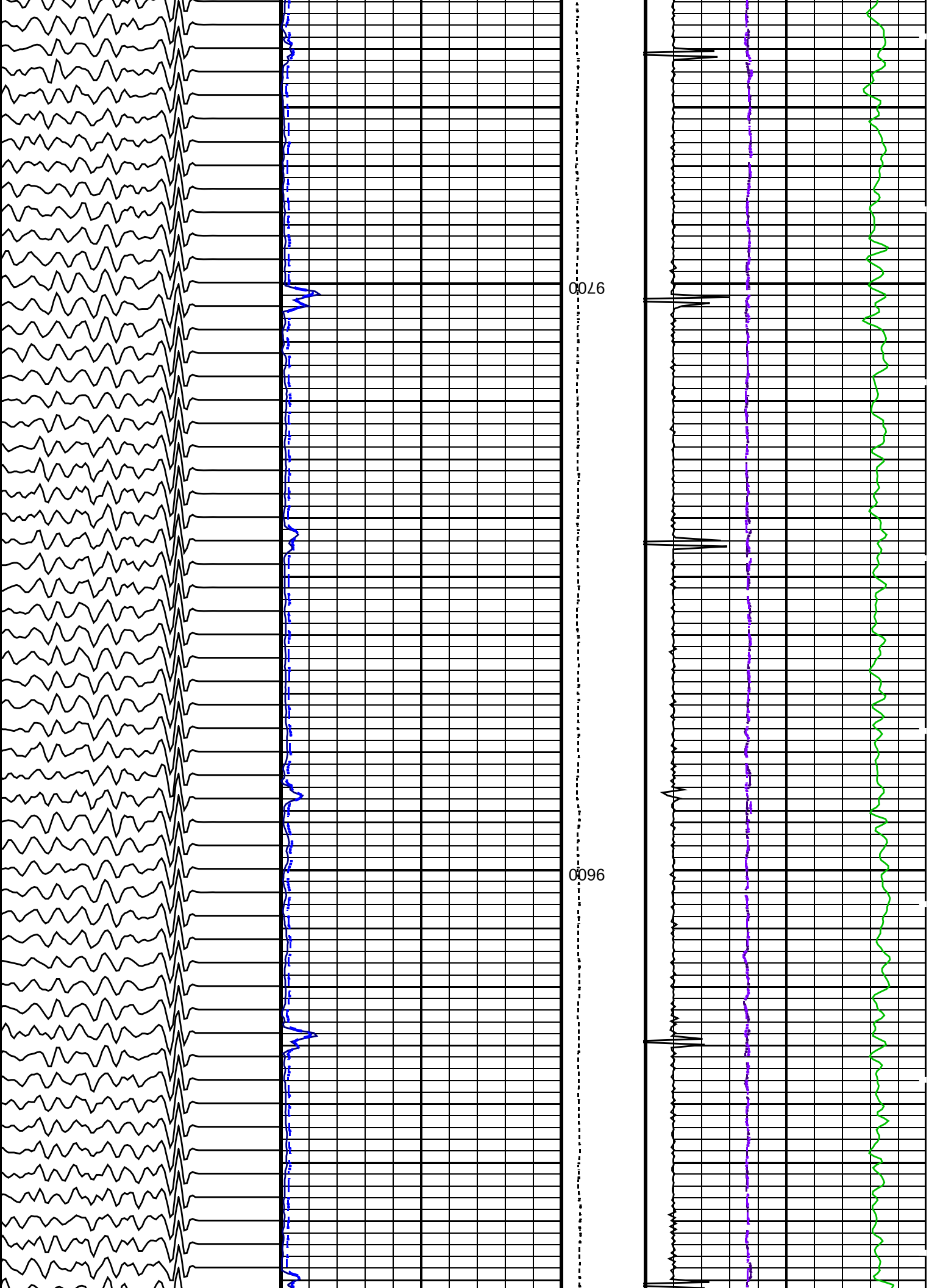

10700
10800
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
FREE PIPE
GR_EDTC
DATN
DBI

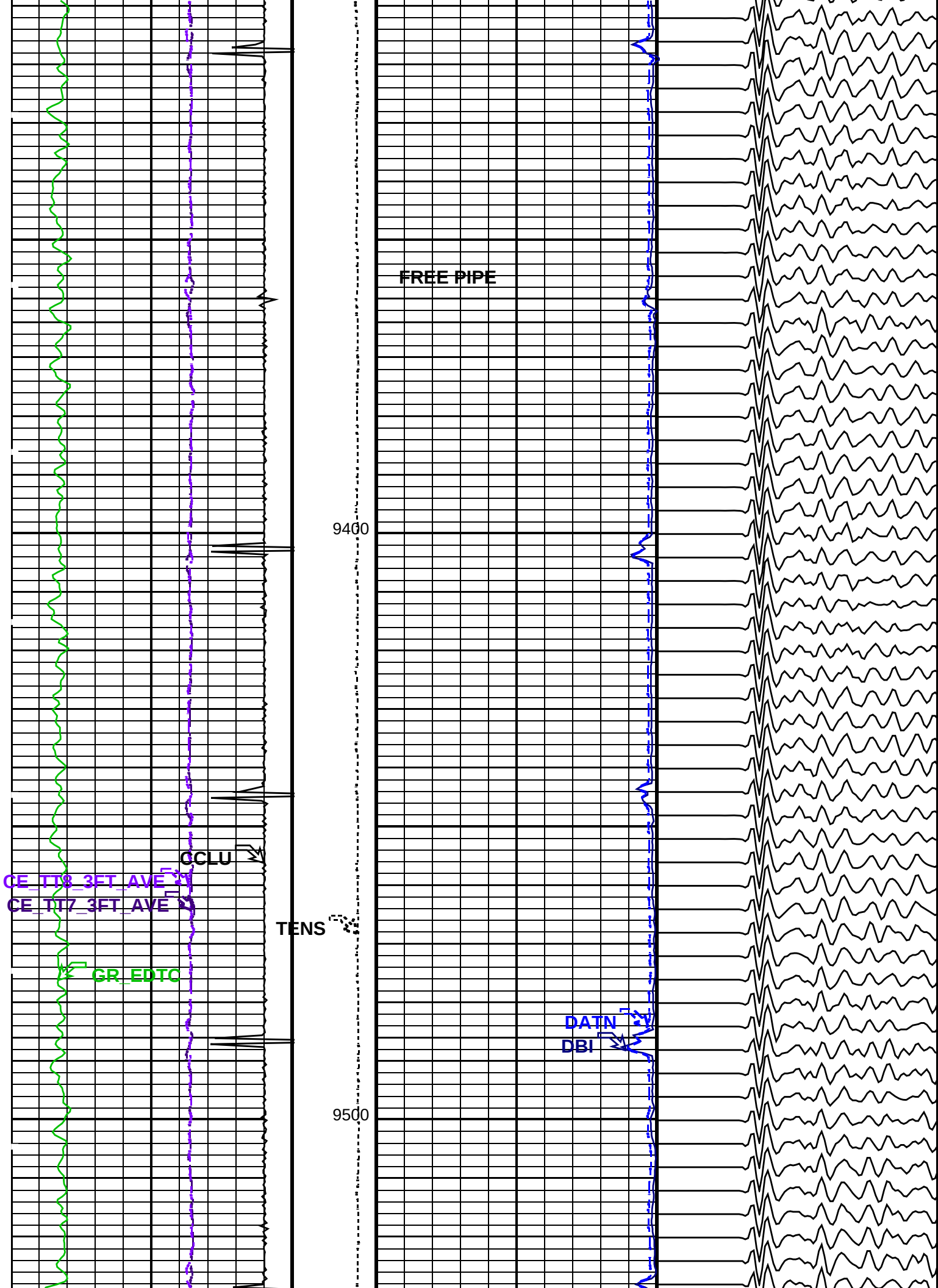

10500
10600

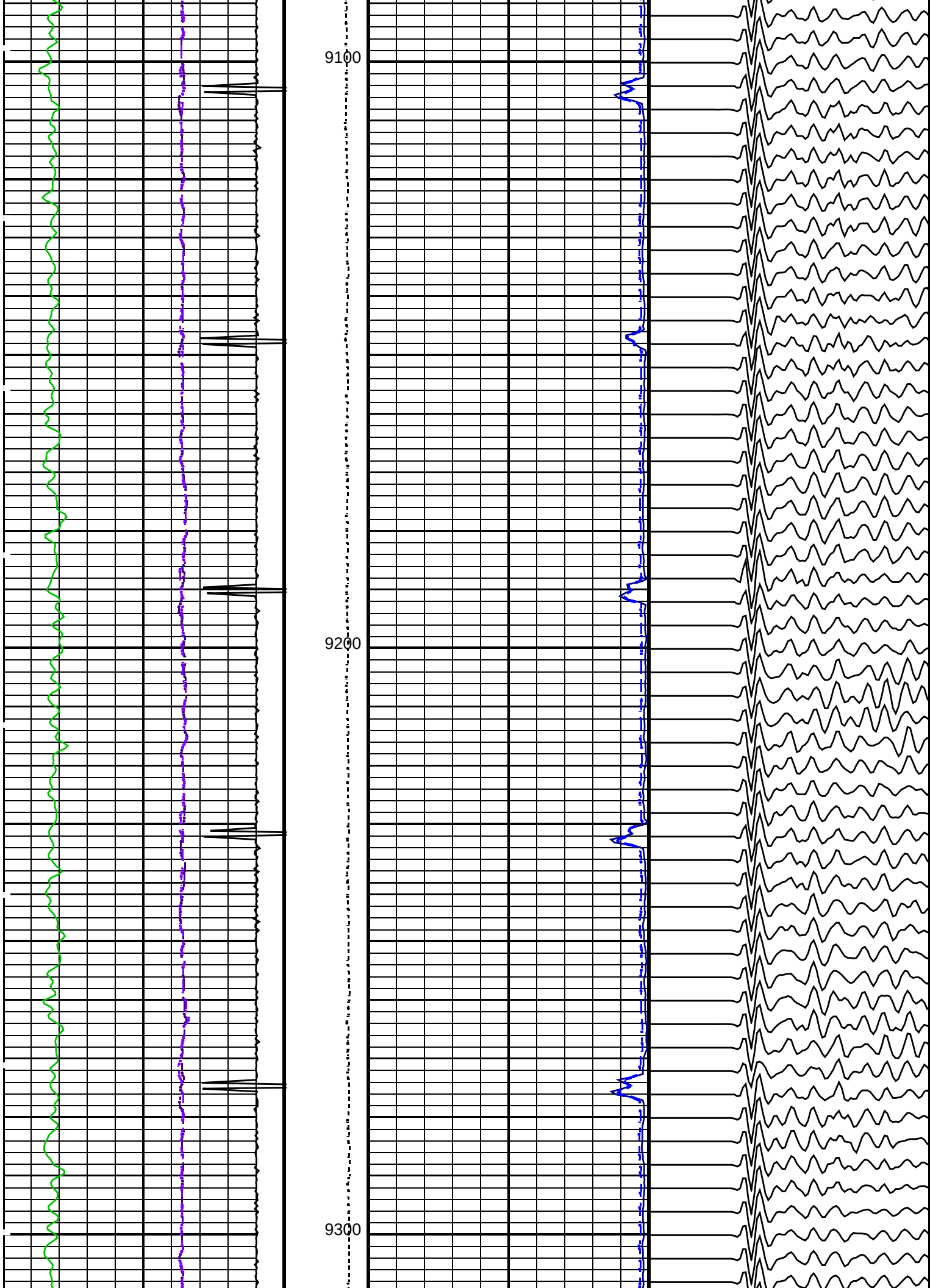

10200
FREE PIPE
10300
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI
10400


10000
10100


9800
FREE PIPE
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
9900
GR_EDTC
DATN
DBI


9700
9600


FREE PIPE
9400
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI
9500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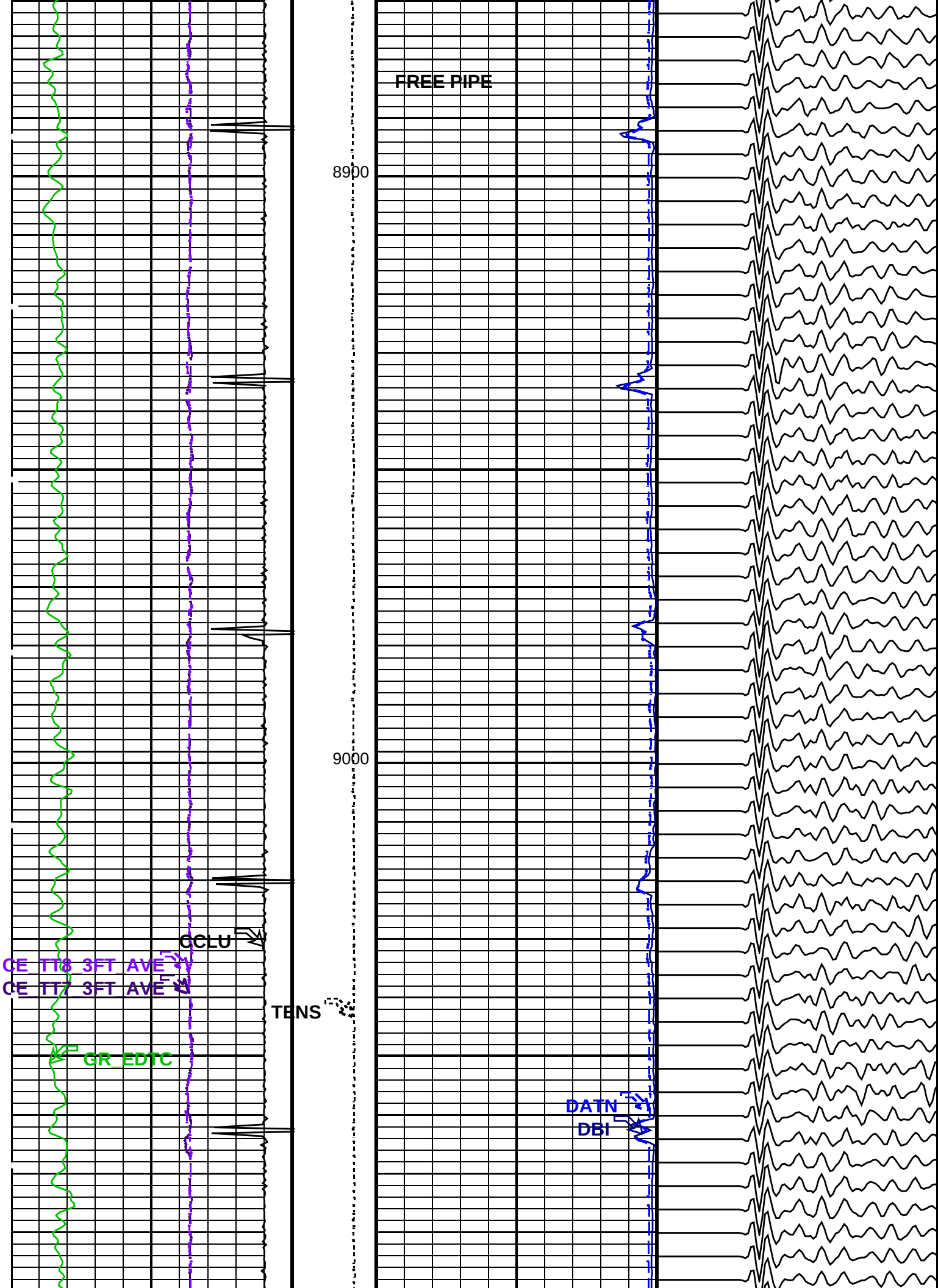
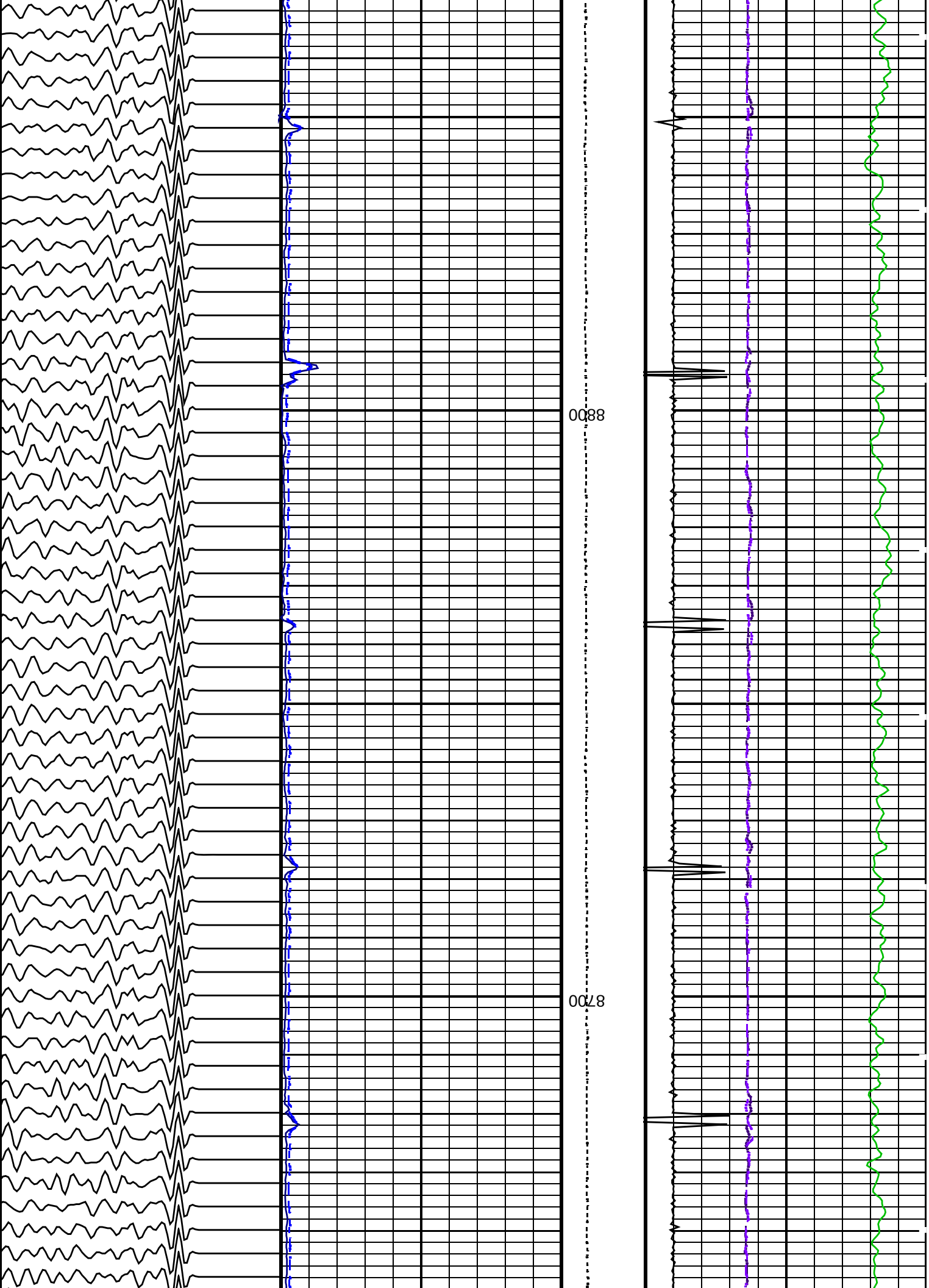
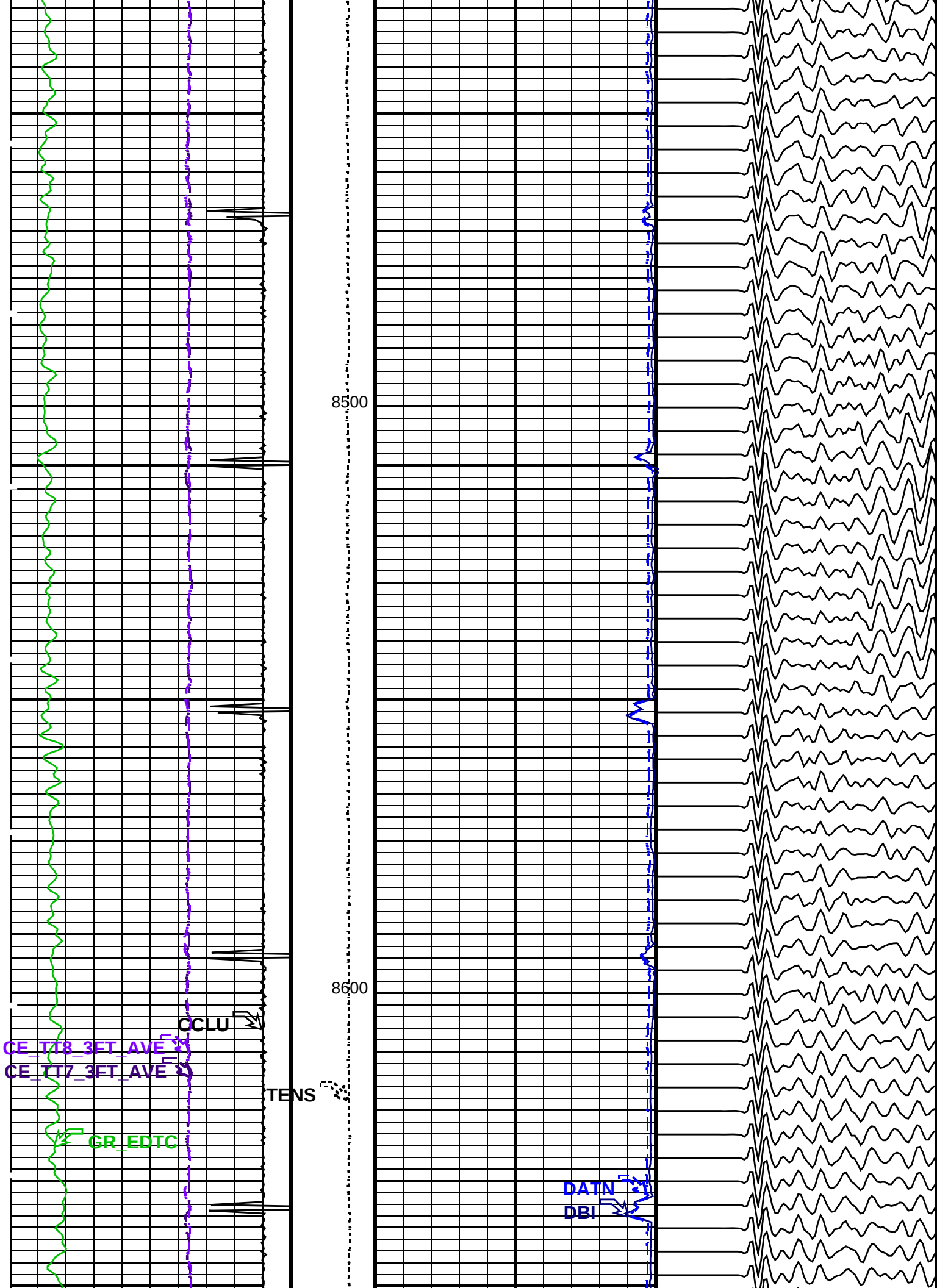
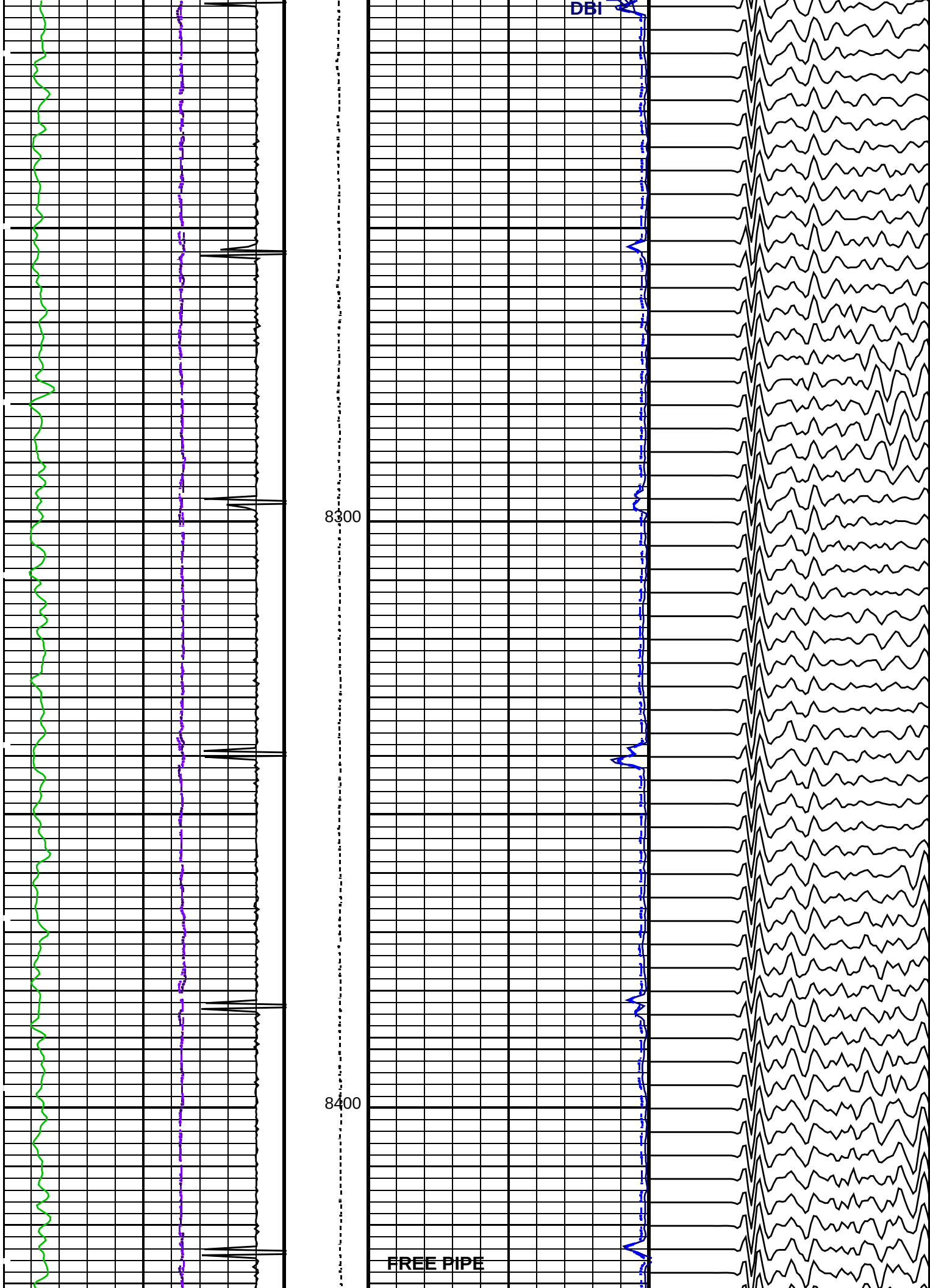
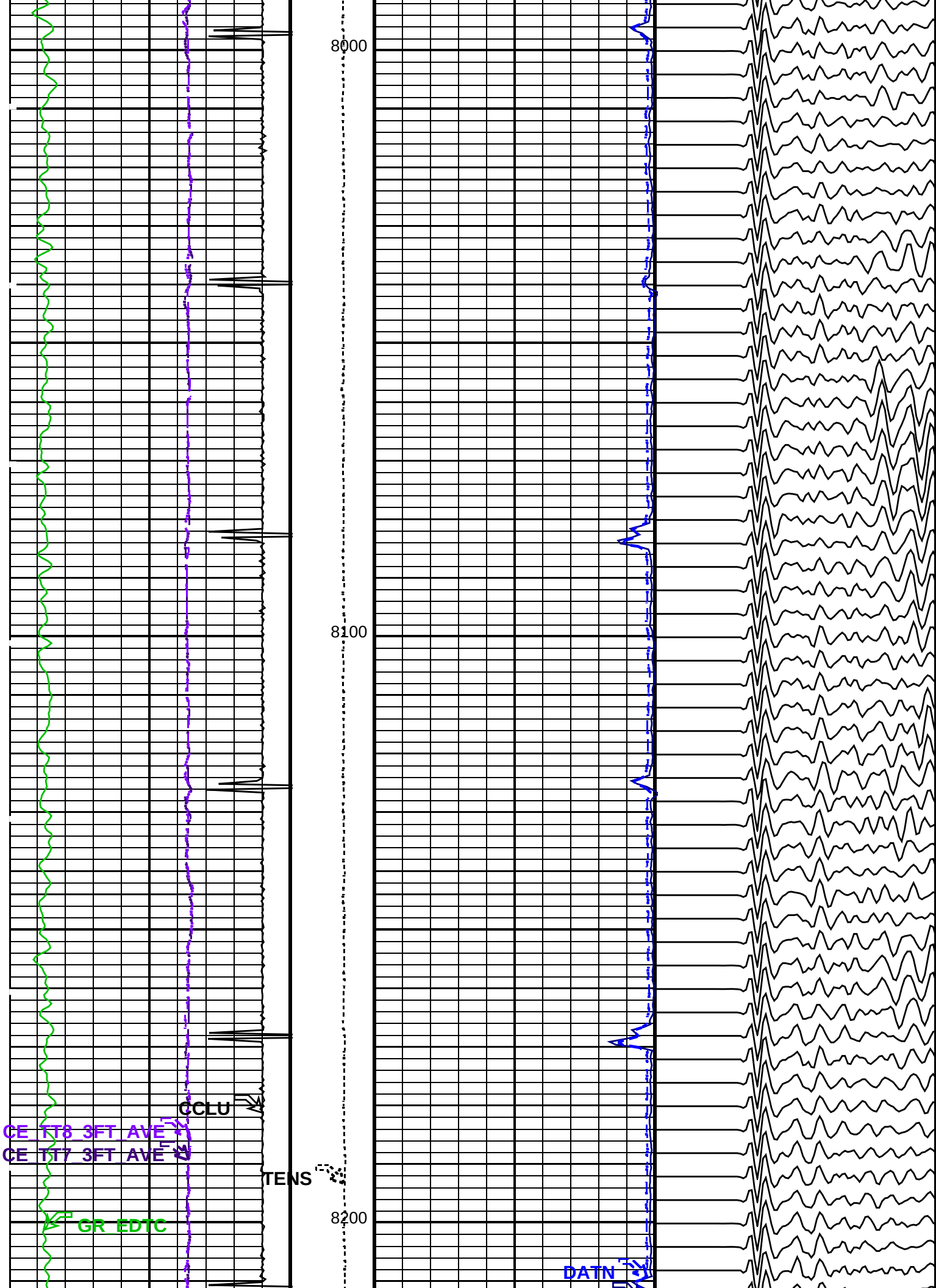
9200
9300

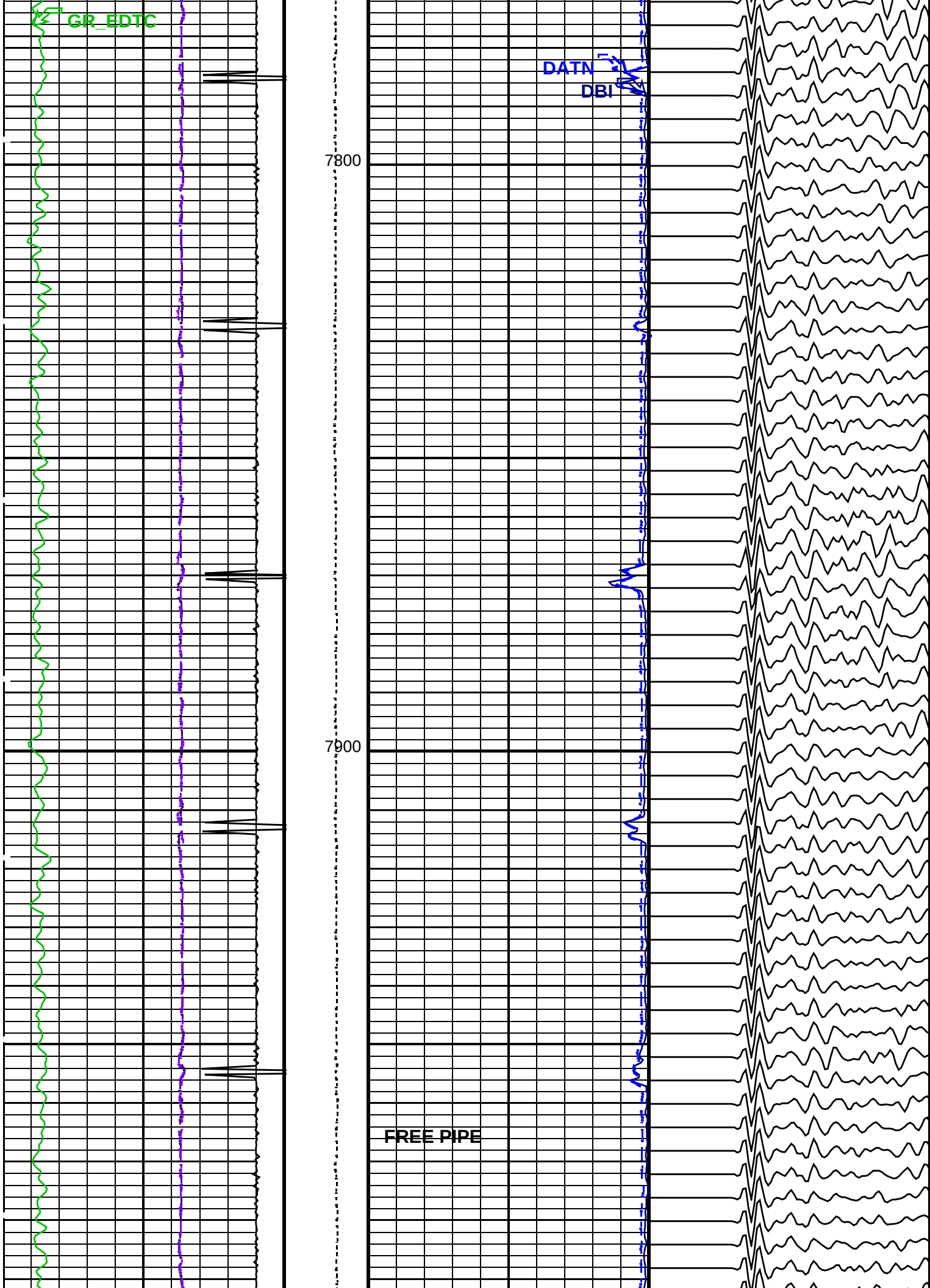

FREE PIPE
8900
9000
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI

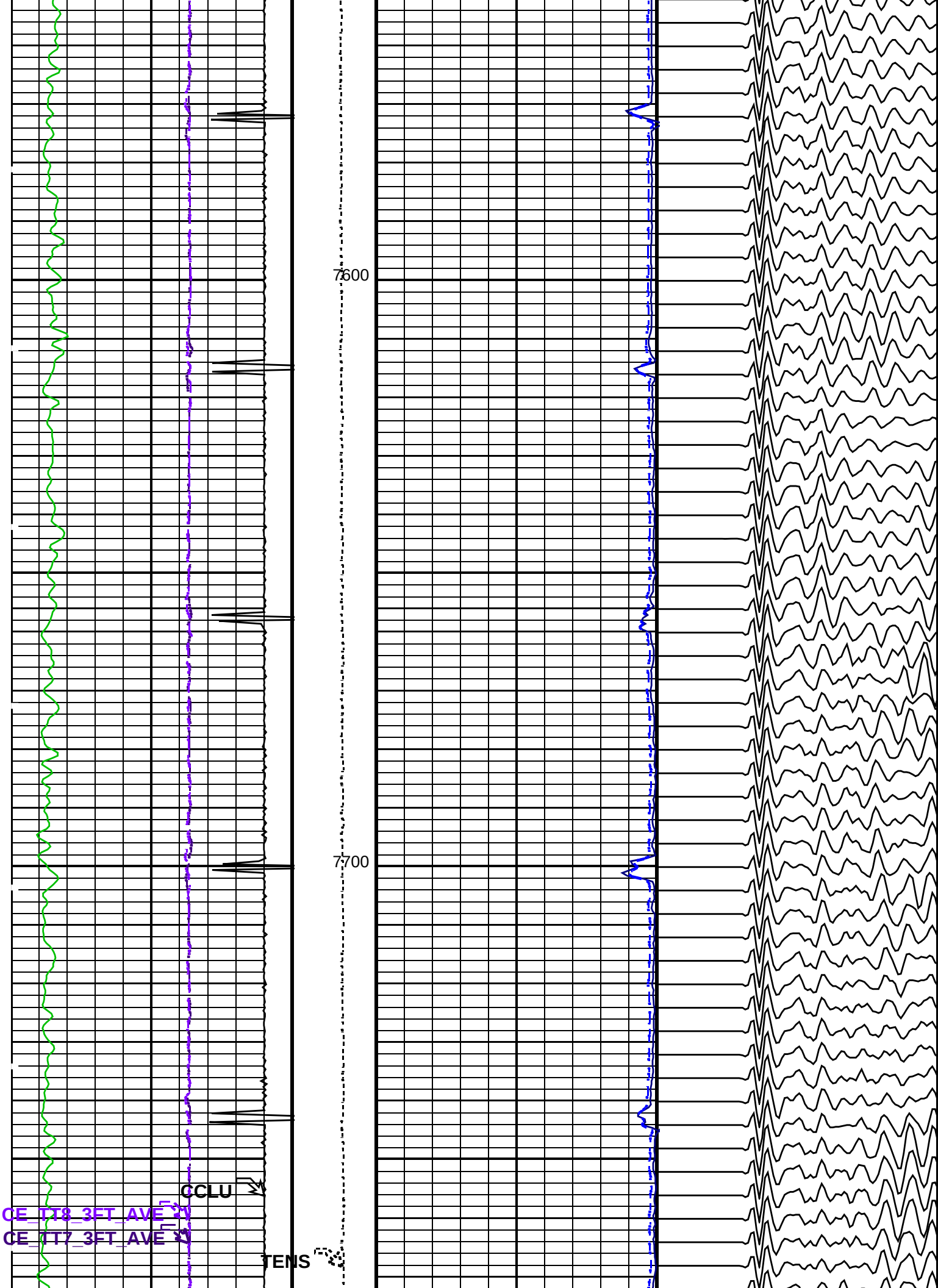

8800
8700

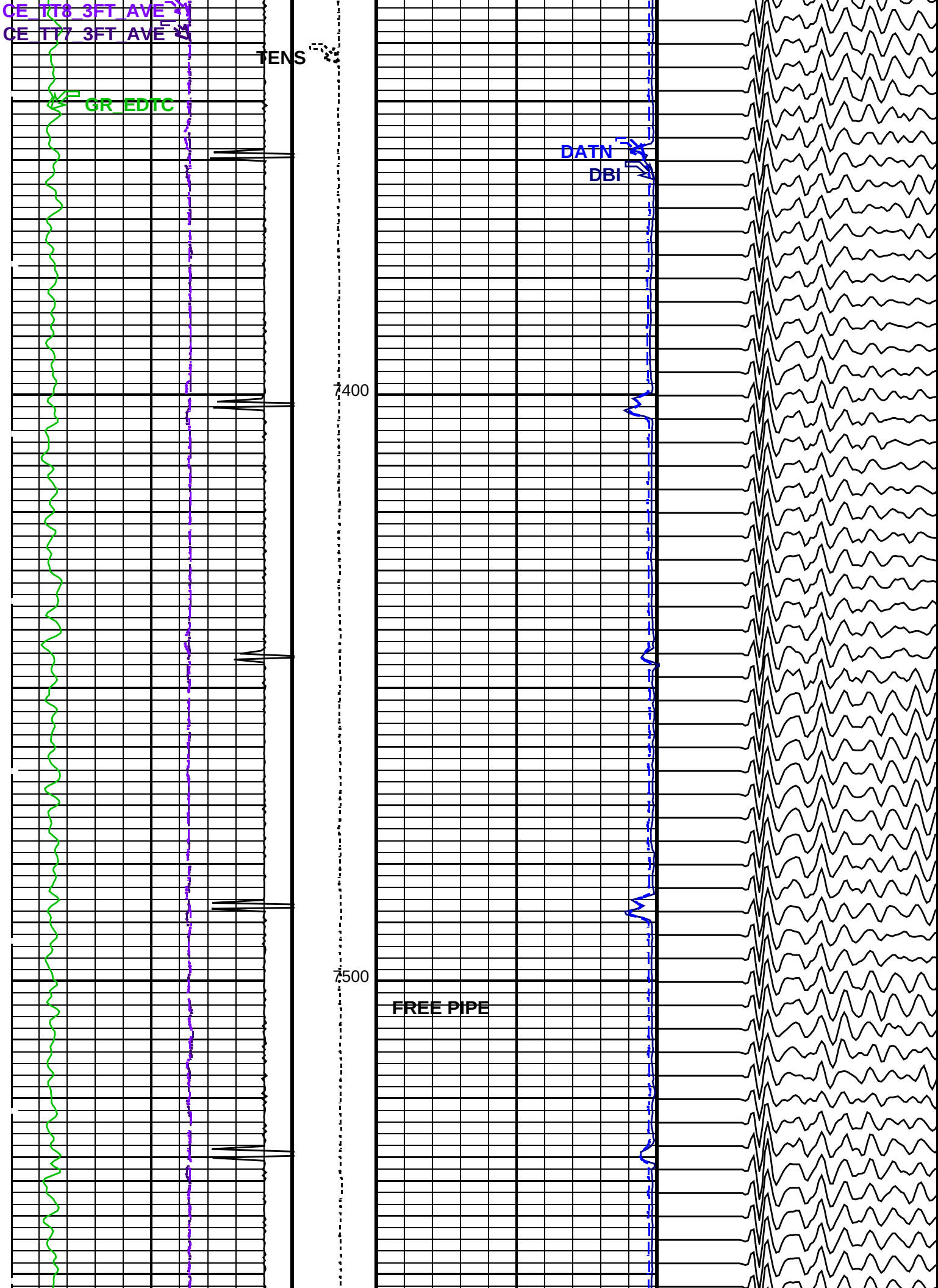

8500
8600
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI

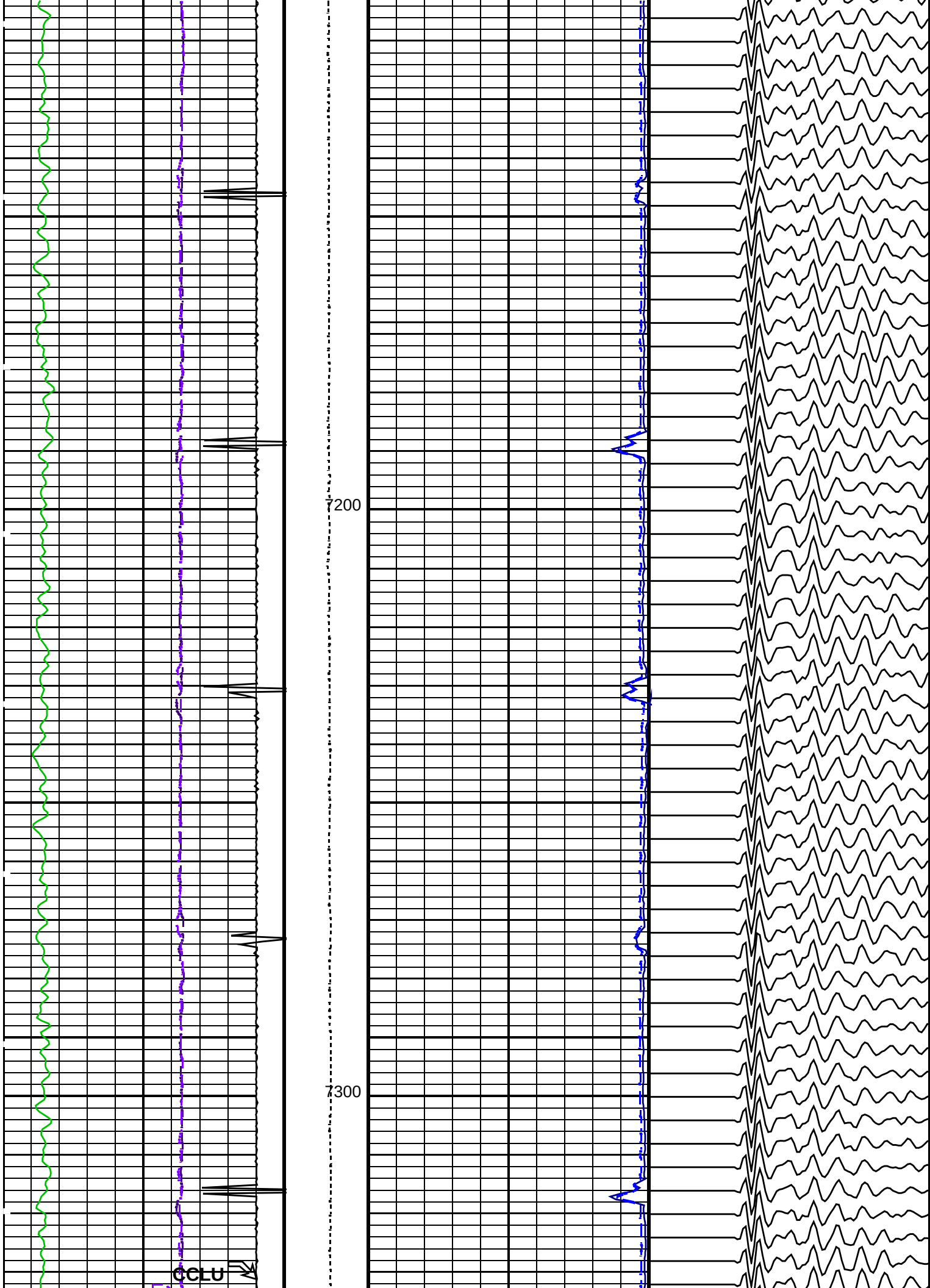

DBI
8300
8400
FREE PIPE

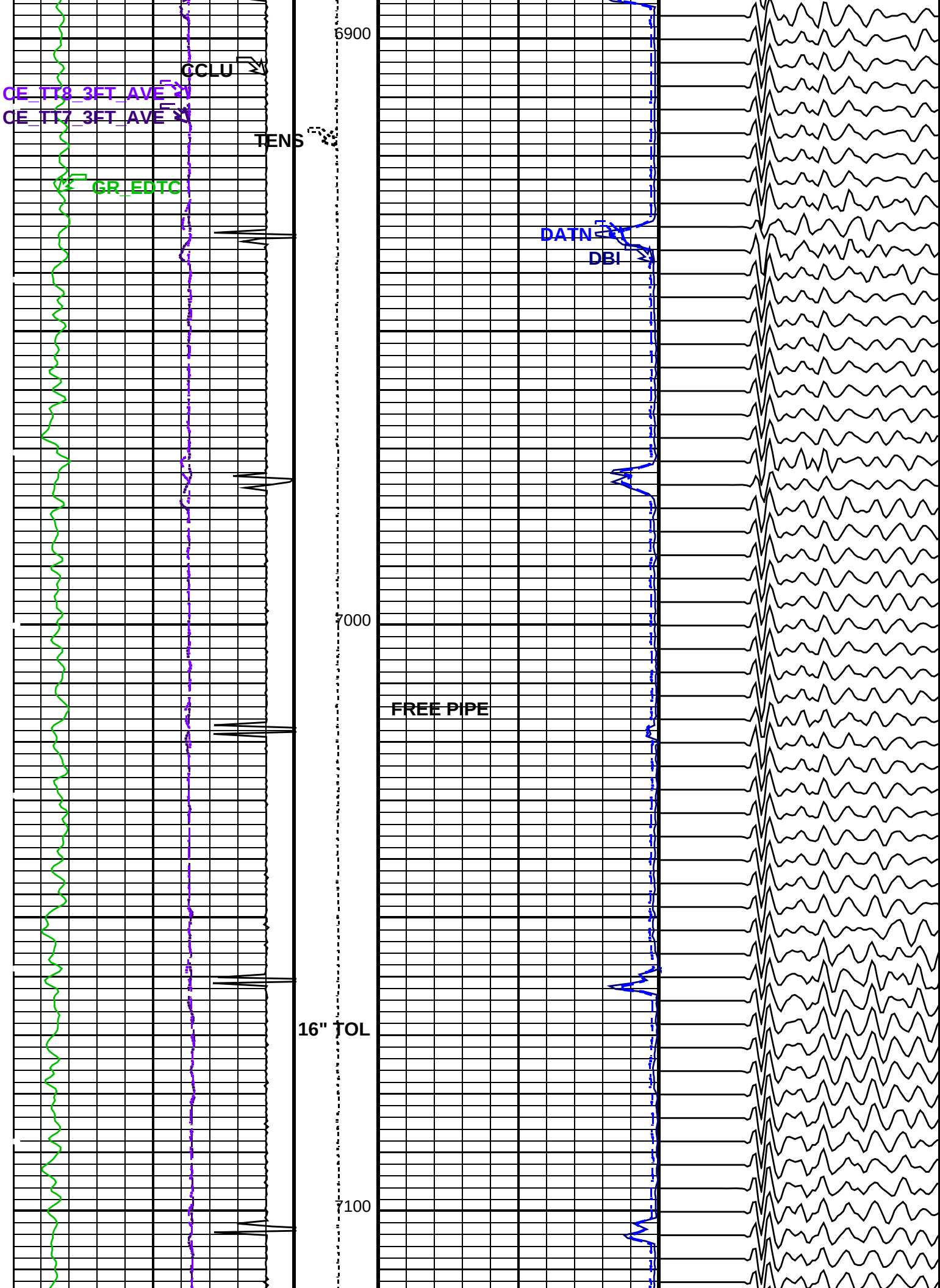

8000
8100
8200
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN

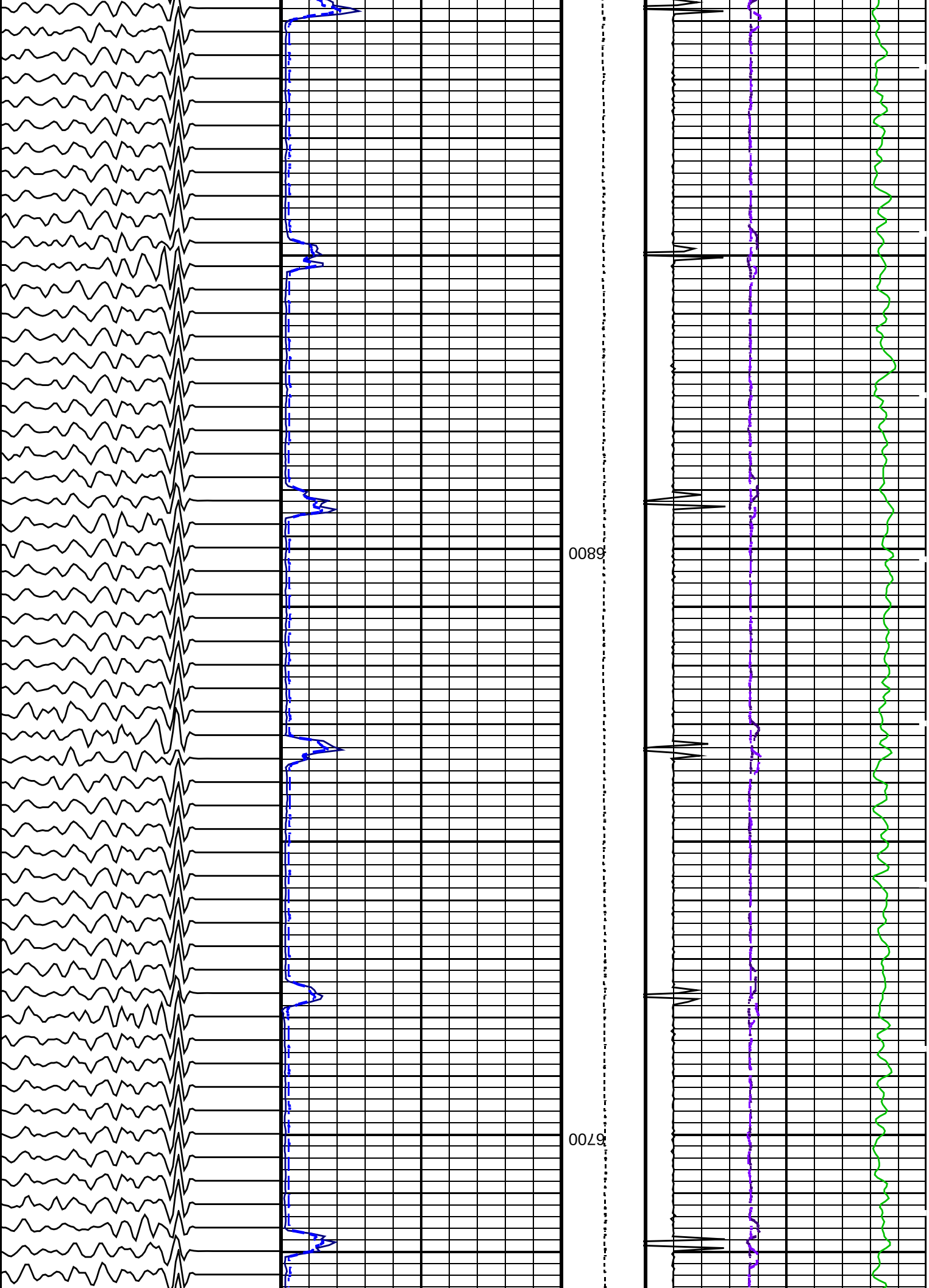

GR_EDTC
DATN
DBI
7800
7900
FREE PIPE

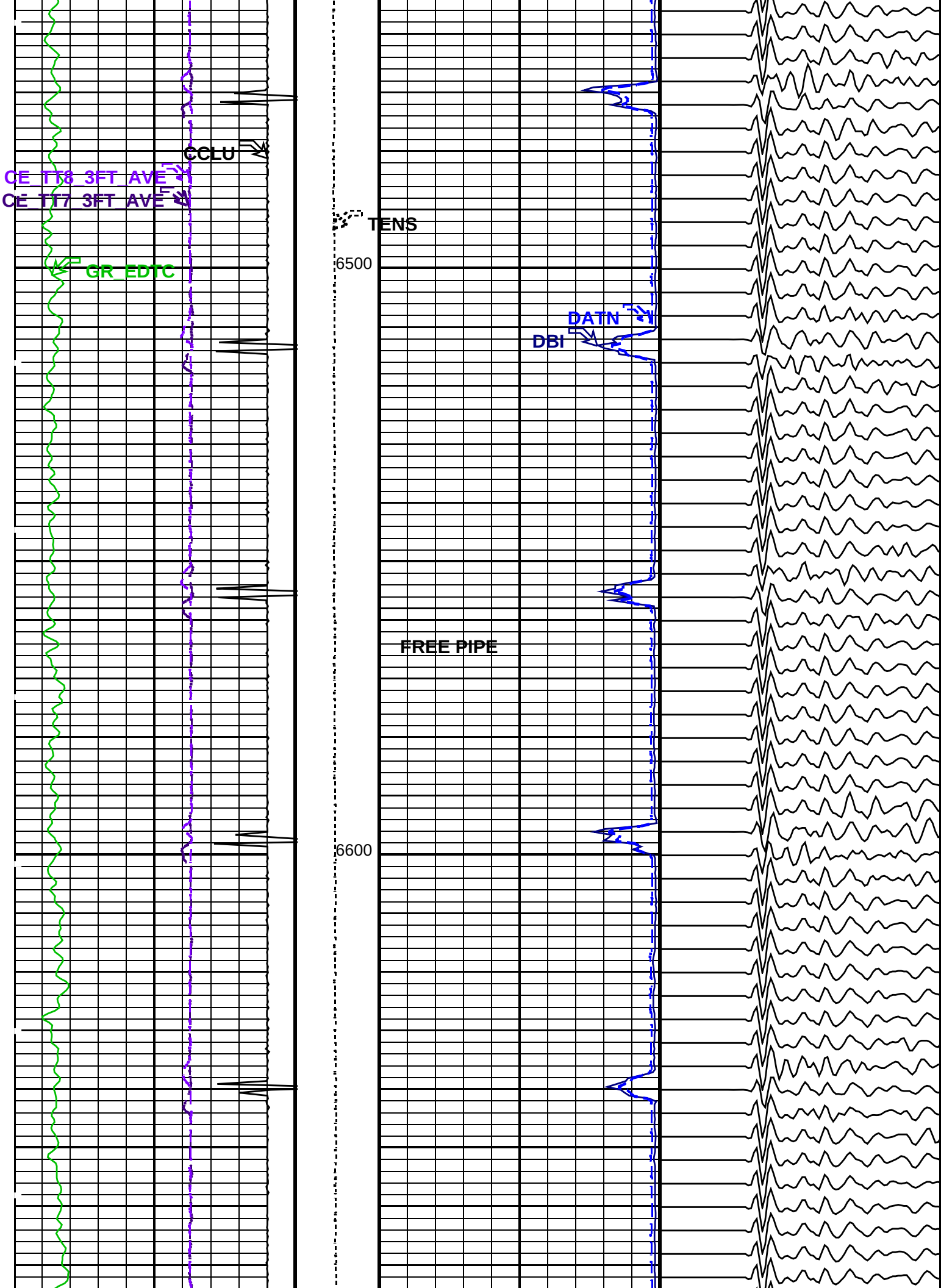

7600
7700
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS

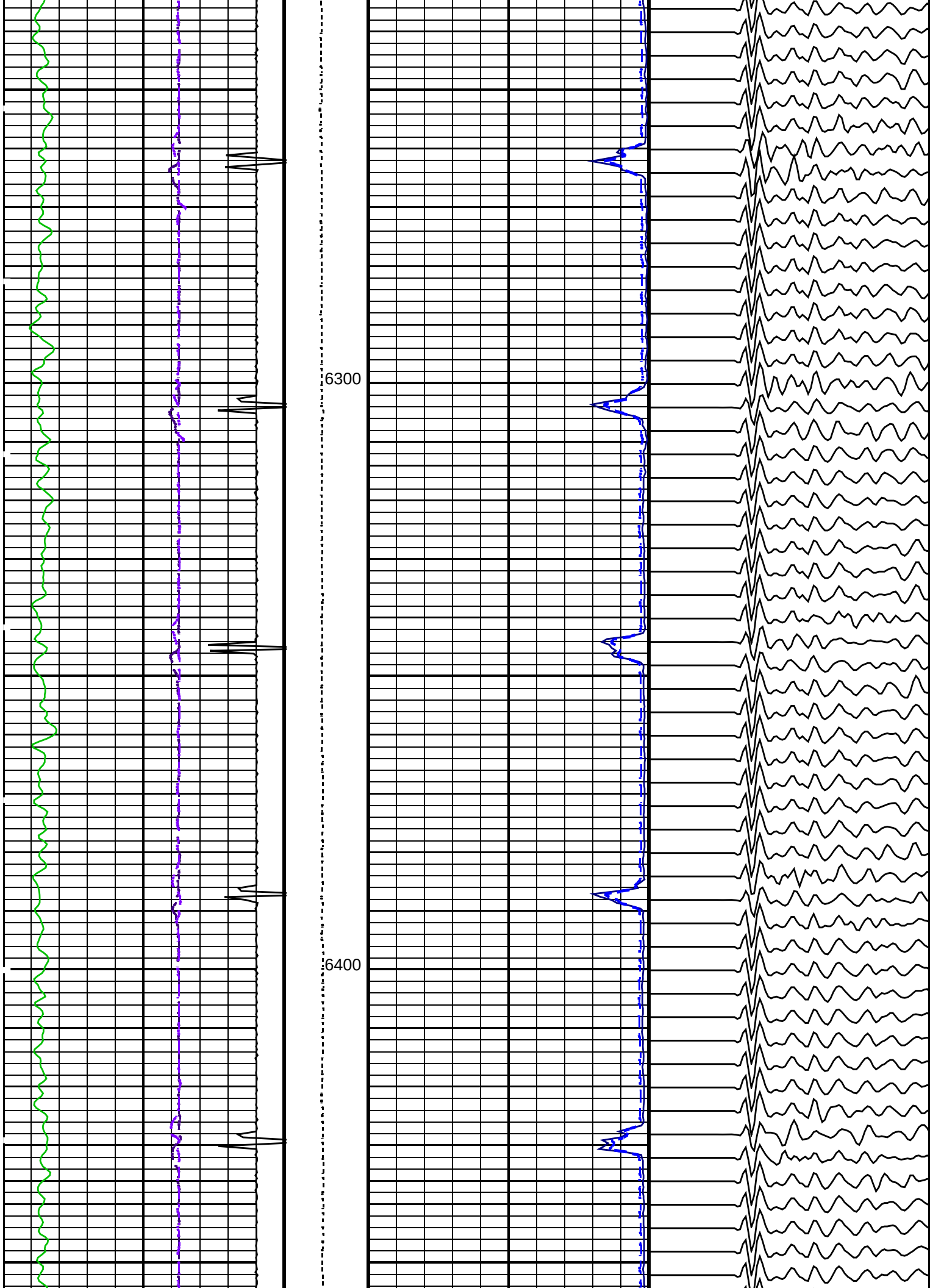

CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI
7400
7500
FREE PIPE


7200
7300
CCLU


6900
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI
7000
FREE PIPE
16" TOL
7100


6800
6700


CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
6500
DATN
DBI
FREE PIPE
6600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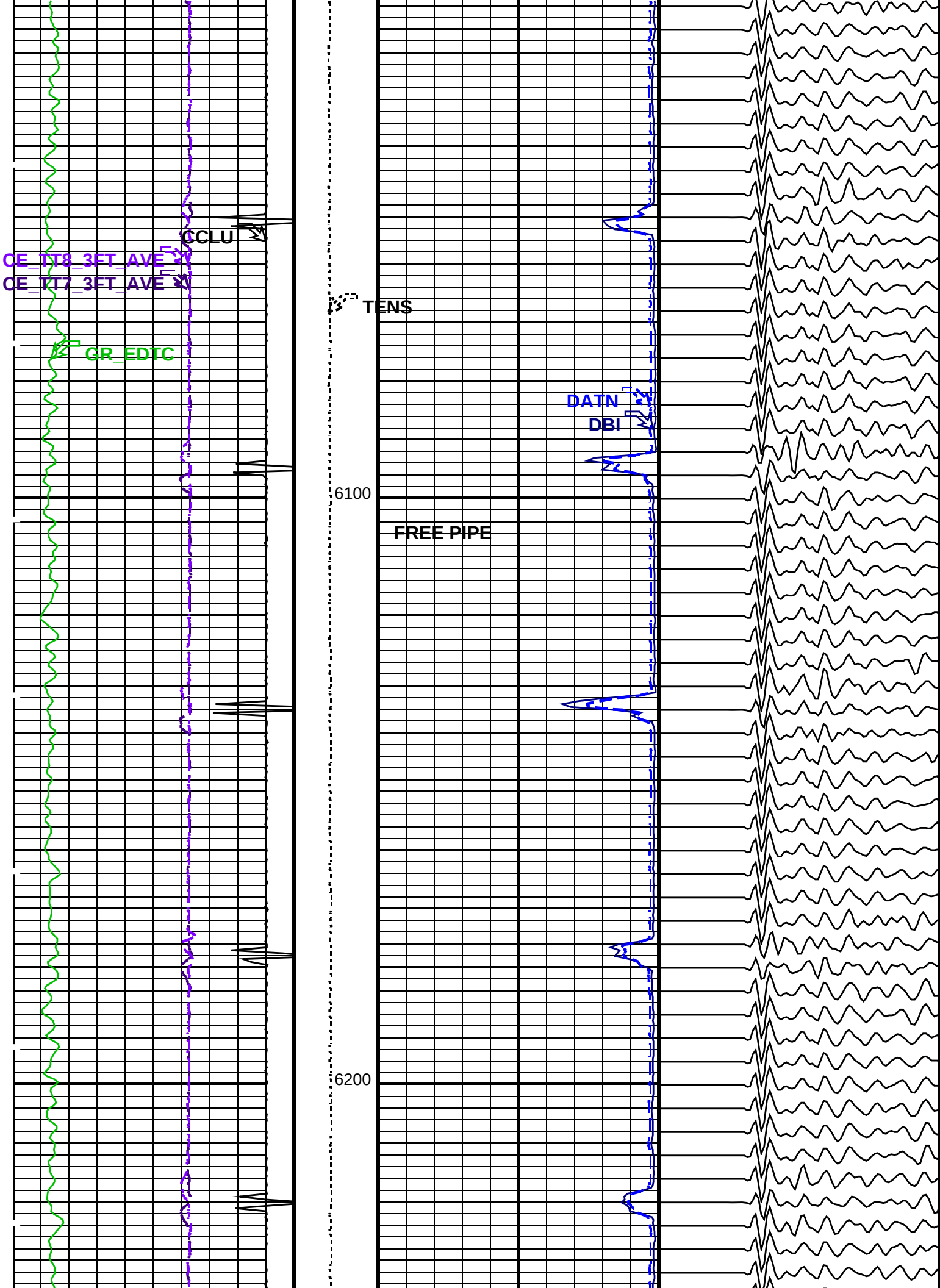
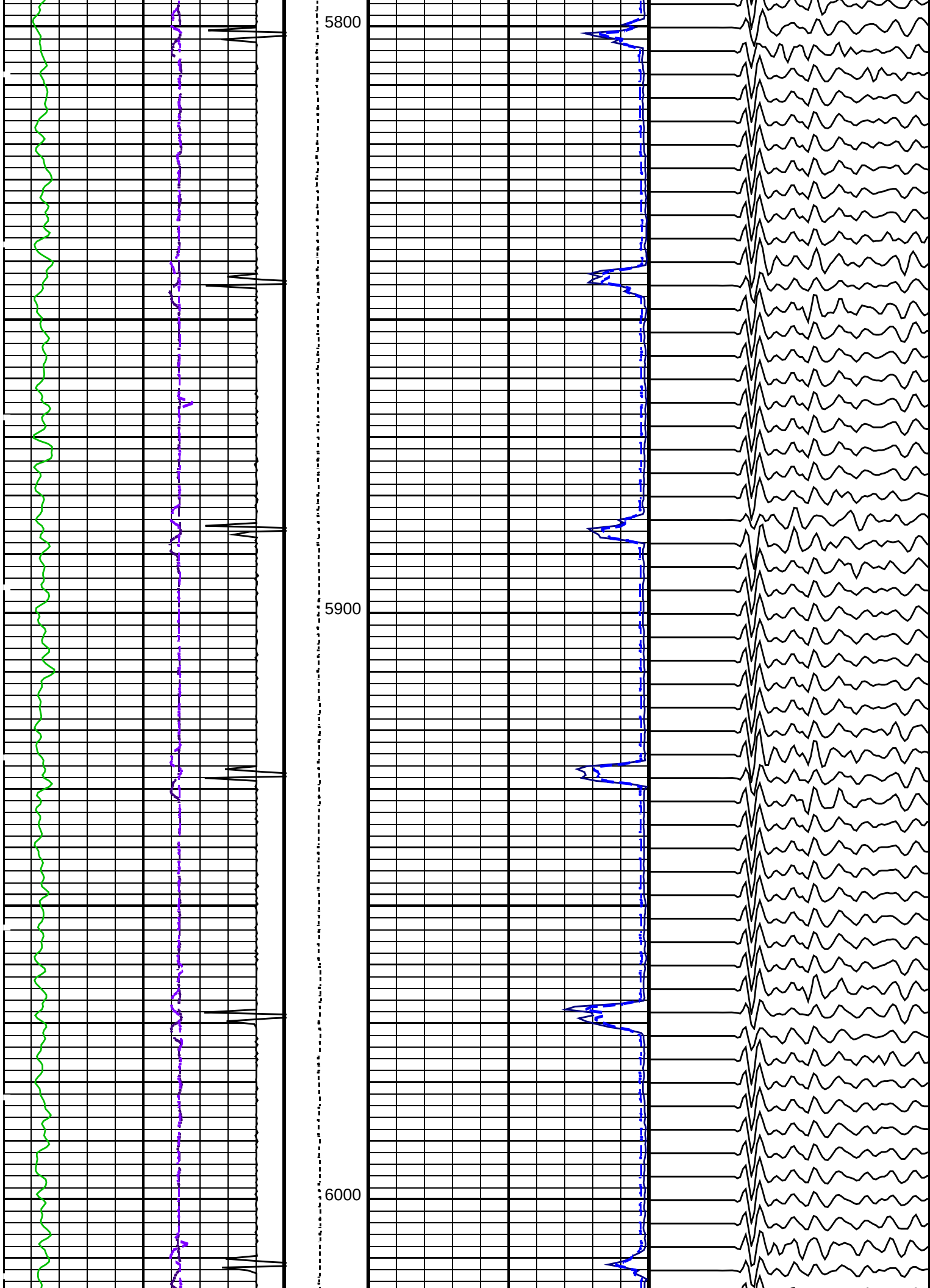
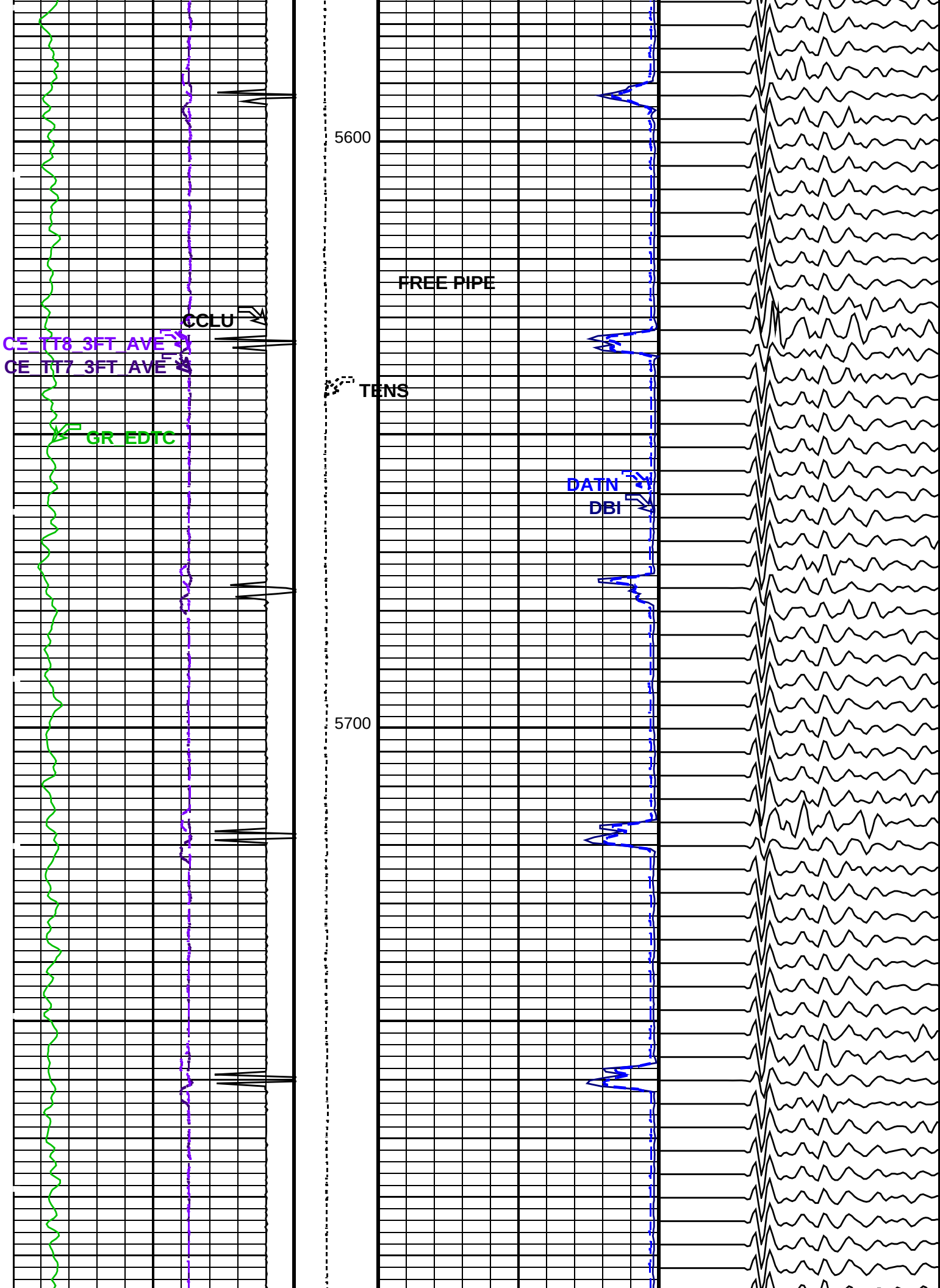
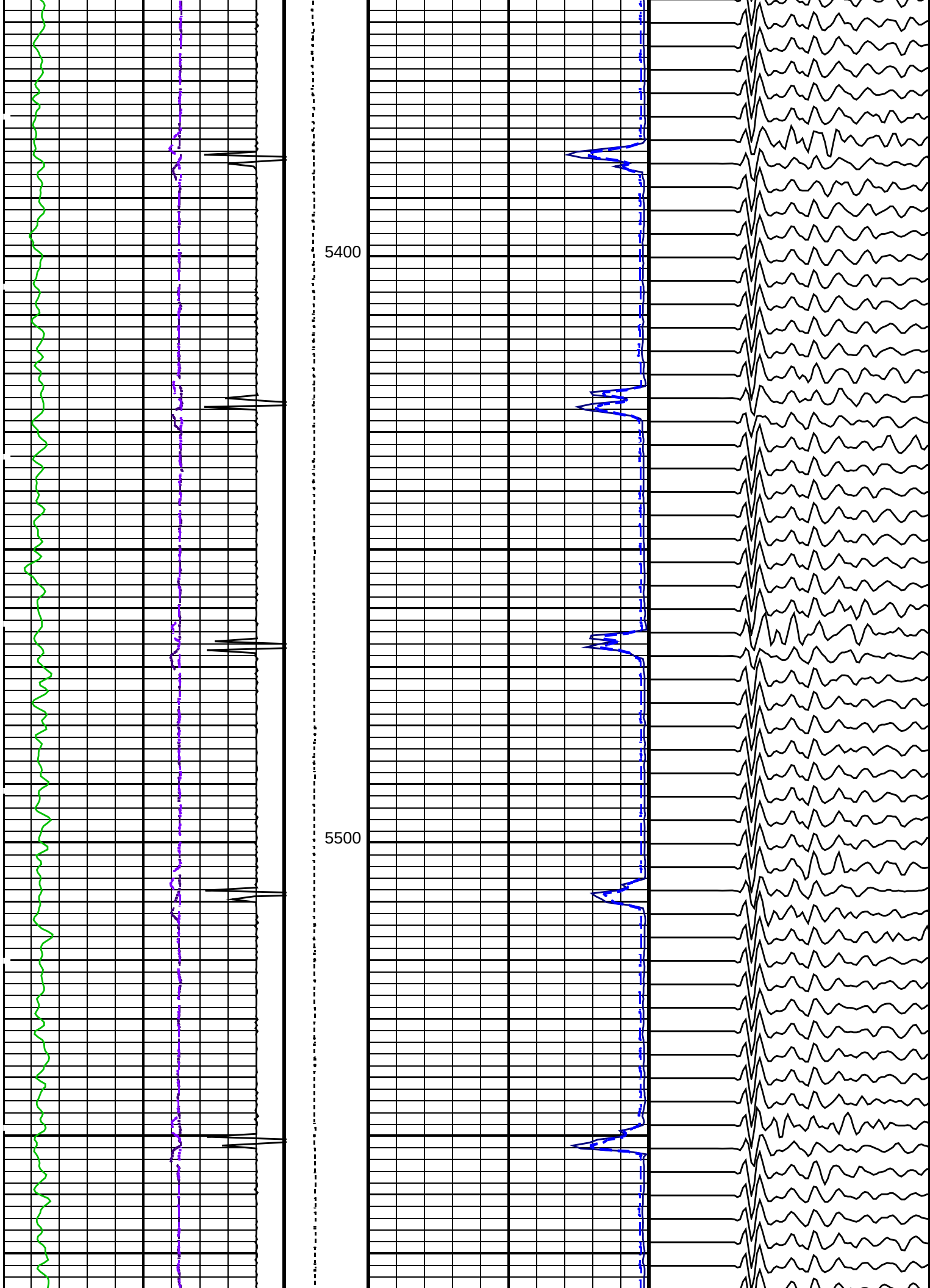
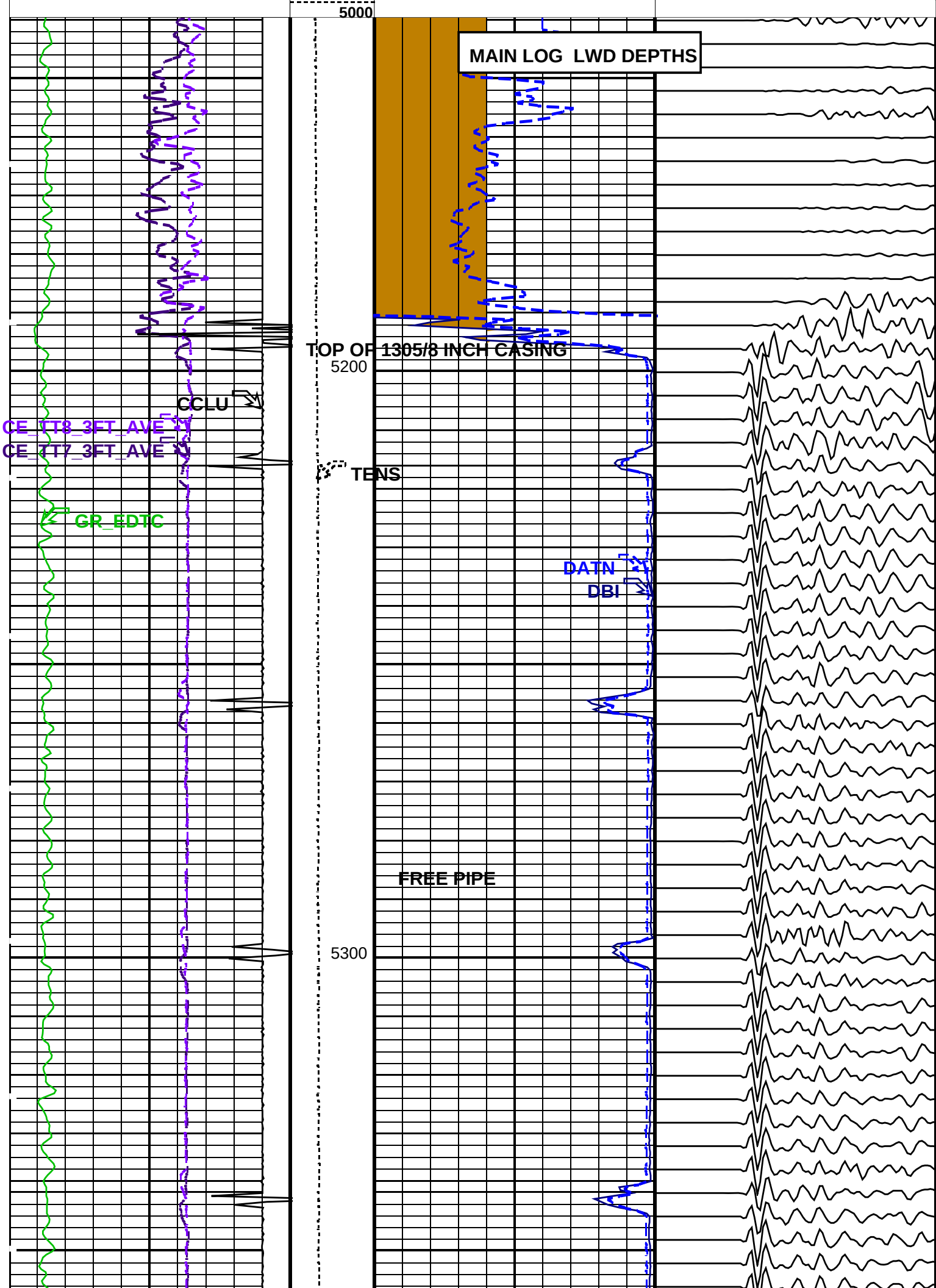

CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI
6100
FREE PIPE
6200


5800
5900
6000


5600
FREE PIPE
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI
5700


5400
5500


5000
MAIN LOG LWD DEPTHS
TOP OF 1305/8 INCH CASING
5200
CCLU
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI
FREE PIPE
5300

ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	13.625	IN
CWEI	Casing Weight	88.20	LB/F
DFD	Drilling Fluid Density	12.70	LB/G
DO	Depth Offset for Playback	1.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	-50000.0000	OHMM
TD	Total Depth	13800	FT
TDD	Total Depth - Driller	13522.00	FT
TDL	Total Depth - Logger	13405.00	FT
TWS	Temperature of Connate Water Sample	-50000.00	DEGF

Format: 2_MAST_CE_DBI Vertical Scale: 5" per 100' Graphics File Created: 09-Jul-2010 10:27

OP System Version: 17C0-154

USIT-D	SRPC-3971-Q1_2010_OP17_b	CAL-Y	17C0-154
GPIT-F	SRPC-3971-Q1_2010_OP17_b	MAPC-B	SKK-3934-MAST_b
EDTC-B	SKK-3882-EDTCB_b	ECRD	SRPC-3971-Q1_2010_OP17_b

Input DLIS Files

DEFAULT	USI_IS_MAPC_038LUP	FN:46	PRODUCER	08-Jul-2010 09:08	13401.5 FT	5138.5 FT

Output DLIS Files

DEFAULT	USI_IS_MAPC_074PUP	FN:3	PRODUCER	09-Jul-2010 10:27

Company: BP Deepwater GoM Nakika Fourier field Well: OCS G 32306 002 ST00BP0

Input DLIS Files

DEFAULT	USI_IS_MAPC_038LUP	FN:46	PRODUCER	08-Jul-2010 09:08	13401.5 FT	5138.5 FT

Output DLIS Files

DEFAULT	USI_IS_MAPC_074PUP	FN:3	PRODUCER	09-Jul-2010 10:27	13402.5 FT	5139.5 FT

OP System Version: 17C0-154

USIT-D	SRPC-3971-Q1_2010_OP17_b	CAL-Y	17C0-154
GPIT-F	SRPC-3971-Q1_2010_OP17_b	MAPC-B	SKK-3934-MAST_b
EDTC-B	SKK-3882-EDTCB_b	ECRD	SRPC-3971-Q1_2010_OP17_b

PIP SUMMARY

Time Mark Every 60 S

CCL (CCLU)
-36 (----) 4

Transit Time 3FT (CE_TT8_3FT_AVE)
550 (US) 350

Transit Time 3FT (CE_TT7_3FT_AVE)
550 (US) 350

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Radioactive Marker

>60% Bond

Discriminated Attenuation (DATN)
10 (DB/F) 0

Collars

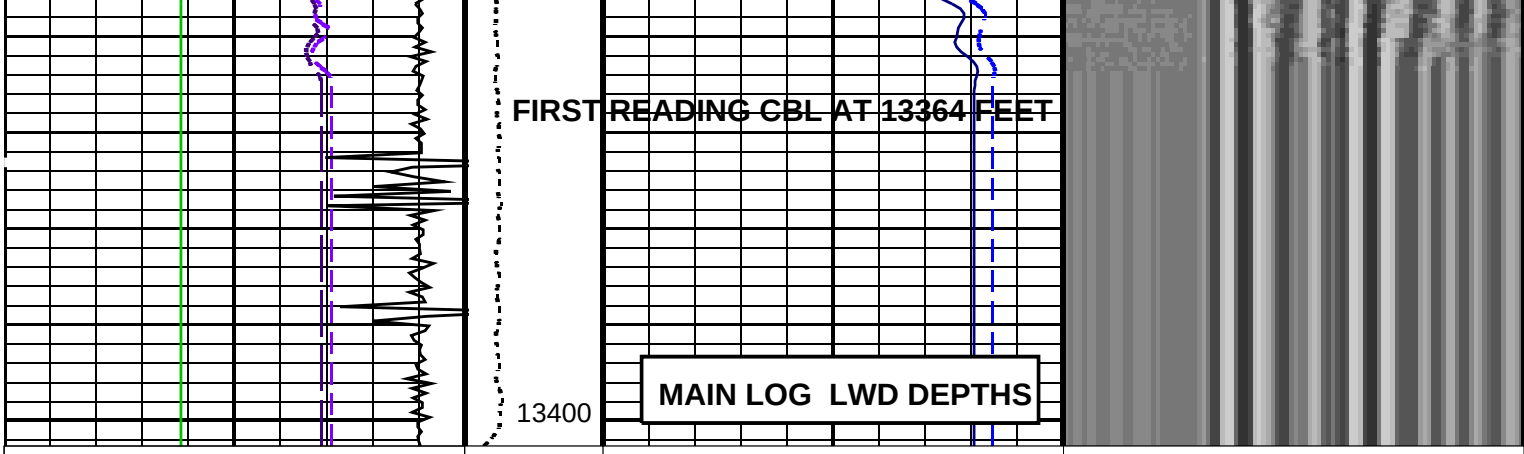
Tension (TENS) (LBF)
3000

Discriminated Bond Index (DBI)
1 (----) 0

VDL Waveforms (VDL)
200 (US) 1200

		240	US/F
PRES_MAST_DTST_CURVE_LL	MAST Stoneley DT Slowness Curve Lower Limit for Presentation	100	US/F
PRES_MAST_DTST_CURVE_UL	MAST Stoneley DT Slowness Curve Upper Limit for Presentation	700	US/F
PRES_MAST_DTST_IMAGE_LL	MAST Stoneley DT Slowness Image Lower Limit for Presentation	100	US/F
PRES_MAST_DTST_IMAGE_UL	MAST Stoneley DT Slowness Image Upper Limit for Presentation	700	US/F
PRES_MAST_DTS_CURVE_LL	MAST Share DT Slowness Curve Lower Limit for Presentation	40	US/F
PRES_MAST_DTS_CURVE_UL	MAST Share DT Slowness Curve Upper Limit for Presentation	540	US/F
PRES_MAST_DTS_IMAGE_LL	MAST Share DT Slowness Image Lower Limit for Presentation	40	US/F
PRES_MAST_DTS_IMAGE_UL	MAST Share DT Slowness Image Upper Limit for Presentation	540	US/F
PRES_MAST_SDT_TIME_WINDOW_LL	MAST Shear DT Time Windows Lower Limit in Alford Rotation for Presentation	0	US
PRES_MAST_SDT_TIME_WINDOW_UL	MAST Shear DT Time Windows Upper Limit in Alford Rotation for Presentation	20000	US
RBC	Relative Bearing Correction Allow/Disallow	DISALLOW	
ROTIN_XD	Alford Rotation X Dipole Measurement Number	DISALLOW	
ROTIN_YD	Alford Rotation Y Dipole Measurement Number	DISALLOW	
ROTWINDOW_CTRL	Alford Rotation Window Control	ON	
ROT_AI	Dipole Waveform Rotation Averaging Depth Interval	0	FT
ROT_FIL_LENG	Alford Rotation Filter Length	0	
ROT_TWD	Alford Rotation Window Time Width	0	US
ROT_TWO	Alford Rotation Window Time Offset	0	US
ROT_XFH	Alford Rotation Filter High Cutoff	0	HZ
ROT_XFL	Alford Rotation Filter Low Cutoff	0	HZ
SHT	Surface Hole Temperature	85	DEGF
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
STCAL	STC Algorithm	** V **	
STCSEL1	Station Selection for STC for Measurement 1	** V **	
STCSEL2	Station Selection for STC for Measurement 2	** V **	
STCSEL3	Station Selection for STC for Measurement 3	** V **	
STCSEL4	Station Selection for STC for Measurement 4	** V **	
STCSEL5	Station Selection for STC for Measurement 5	** V **	
STCSEL6	Station Selection for STC for Measurement 6	** V **	
STCSEL_FAST	Station Selection for STC for DT_FAST	** V **	
STCSEL_SLOW	Station Selection for STC for DT_SLOW	** V **	
TRMIN	Alteration Detection Minimum Transmitter Receiver Spacing for Processing	3.0	FT
TX_AMP	Transmitter Amplitude Factor	** V **	
U_SLL1_MAST	MAST DSTC Slowness Lower Limit 1	0	US/F
U_SLL2_MAST	MAST DSTC Slowness Lower Limit 2	0	US/F
U_SLL3_MAST	MAST DSTC Slowness Lower Limit 3	0	US/F
U_SLL4_MAST	MAST DSTC Slowness Lower Limit 4	0	US/F
U_SLL5_MAST	MAST DSTC Slowness Lower Limit 5	0	US/F
U_SLL6_MAST	MAST DSTC Slowness Lower Limit 6	0	US/F
U_SLL_FAST_MAST	MAST DSTC Slowness Lower Limit Fast	0	US/F
U_SLL_SLOW_MAST	MAST DSTC Slowness Lower Limit Slow	0	US/F
U_SUL1_MAST	MAST DSTC Slowness Upper Limit 1	0	US/F
U_SUL2_MAST	MAST DSTC Slowness Upper Limit 2	0	US/F
U_SUL3_MAST	MAST DSTC Slowness Upper Limit 3	0	US/F
U_SUL4_MAST	MAST DSTC Slowness Upper Limit 4	0	US/F
U_SUL5_MAST	MAST DSTC Slowness Upper Limit 5	0	US/F
U_SUL6_MAST	MAST DSTC Slowness Upper Limit 6	0	US/F
U_SUL_FAST_MAST	MAST DSTC Slowness Upper Limit Fast	0	US/F
U_SUL_SLOW_MAST	MAST DSTC Slowness Upper Limit Slow	0	US/F
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	165	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	STAN	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	NO	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	85	DEGF
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Centered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
System and Miscellaneous			

U-USIT_RFWE	USIT Remove Flagged Data Window End	511	US
UMAO	USIT Measurement Angular Offset	-10	DEG
UPAT	Emission Pattern	Pattern_300K	
USIT_USAC_TASK_ALLOW	USIT USAC Allow Task after Power Up	YES	
USIT_USAC_TASK_TIMEOUT	USIT USAC Task Timeout (in seconds) FOR TEST REPORT	600	
USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_10_34_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_60U_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	29	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.48	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.01	MRAY
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	5	V
GPIT-F: General Purpose Inclinometer			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
BOOTVN	Downhole Firmware Version	1.0	
FWVN	Downhole Firmware Version	1.0	
GPITF_LOGGING_SPEED	Max Logging Speed	3600_FPH	
ICMO	Inclinometry Computation Mode	CASED_HOLE	
MDEC	Magnetic Field Declination	-0.99895	DEG
MAPC-B: Multimode Array Sonic Power Cartridge			
AZIM_SELECT	Azimuth Reference Selection	NONE	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	165	DEGF
BILI	Bond Index Level for Zone Isolation	0.6	
BISS	Bond Index Source Selection for BIQL	DBI	
BS	Bit Size	14.750	IN
CBRA	CBL LQC Reference Amplitude in Free Pipe	43	MV
CDTS	C-Delta-T Shale	100	US/F
CE_DCBLSEL	DCBL Selection for Cement Evaluation	3_5FT	
CE_VDLGRA	VDL Manual Gain Rate Array for Cement Evaluation	** V **	
CE_VDLSEL	VDL Selection for Cement Evaluation	MU_5FT	
CE_VDL_MODE	DCBL/VDL Mode for Cement Evaluation	STANDARD	
CE_VFILSWA	VDL Filter Switch Array for Cement Evaluation	** V **	
CLASSAL	Classification Algorithm	** V **	
CMCF	CBL Cement Type Compensation Factor	1	
CRVIN_MF	Alteration Detection Input Number for Monopole Far	DISALLOW	
CRVIN_ML	Alteration Detection Input Number for Monopole Lower	DISALLOW	
CRVIN_MU	Alteration Detection Input Number for Monopole Upper	DISALLOW	
CTHI	Casing Thickness	0.635048	IN
DCRMVL	DC Offset Removal Option	DC_MULTIPLE	
DLHS	Hole Diameter Source for SOBS Channel	AUTO	
DTCO_SELECT	Delta-T Compressional Selection for Finalization	MF	
DTF	Delta-T Fluid	221.6	US/F
DTM	Delta-T Matrix	56	US/F
DTSH_SELECT	Delta-T Shear Selection for Finalization	XD	
DWF7_SPEC	Channel/Station/Azimuth for VDL (DWF7) of Measurement 7	WFA7/9/1	
DWF8_SPEC	Channel/Station/Azimuth for VDL (DWF8) of Measurement 8	WFA8/5/1	
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.661468	
FIRING_TABLE	MAST Firing Table	** V **	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GOBO	Good Bond	12.117	MV
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
IMG_DTCO_SEL_MAST	Imaging Input DT Compressional Selection	CONSTANT_DTCO	
IMG_EST_DTCO_MAST	Imaging Estimated DT Compressional	120	US/F
IMG_RBS	Imaging Relative Bearing Selection	RB1	
ISSBAR	Barite Mud Switch	NOBARITE	
ITTS	Integrated Transit Time Source	DTCO	
MAST_AZIM_PROC_SWITCH	MAST Azimuth Process Switch	ON	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MATT	Maximum Attenuation	7.19423	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	22.1338	FT
MMSA	MAP Minimum Sonic Amplitude	0	MV
MSA	Minimum Sonic Amplitude	5.20811	MV
NFPI_ML	Free Pipe Amplitude for ML	3000	
NFPI_MU	Free Pipe Amplitude for MU	3000	
NRSA	Number of Receivers in Sub-Array	** V **	
PRES_MAST_DTC_CURVE_LL	MAST Compressional DT Slowness Curve Lower Limit for Presentation	40	US/F
PRES_MAST_DTC_CURVE_UL	MAST Compressional DT Slowness Curve Upper Limit for Presentation	240	US/F
PRES_MAST_DTC_IMAGE_LL	MAST Compressional DT Slowness Image Lower Limit for Presentation	40	US/F
PRES_MAST_DTC_IMAGE_UL	MAST Compressional DT Slowness Image Upper Limit for Presentation	240	US/F



Collars

Tension (TENS) (LBF)
3000
5000

Discriminated Bond Index (DBI)
1 (----) 0

Min Amplitude Max
VDL Variable Density (VDL)
200 (US) 1200

Radioactive Marker

Discriminated Attenuation (DATN)
10 (DB/F) 0

Gamma Ray (GR_EDTC)
0 (GAPI) 100

>60% Bond

Transit Time 3FT (CE_TT7_3FT_AVE)
550 (US) 350

Transit Time 3FT (CE_TT8_3FT_AVE)
550 (US) 350

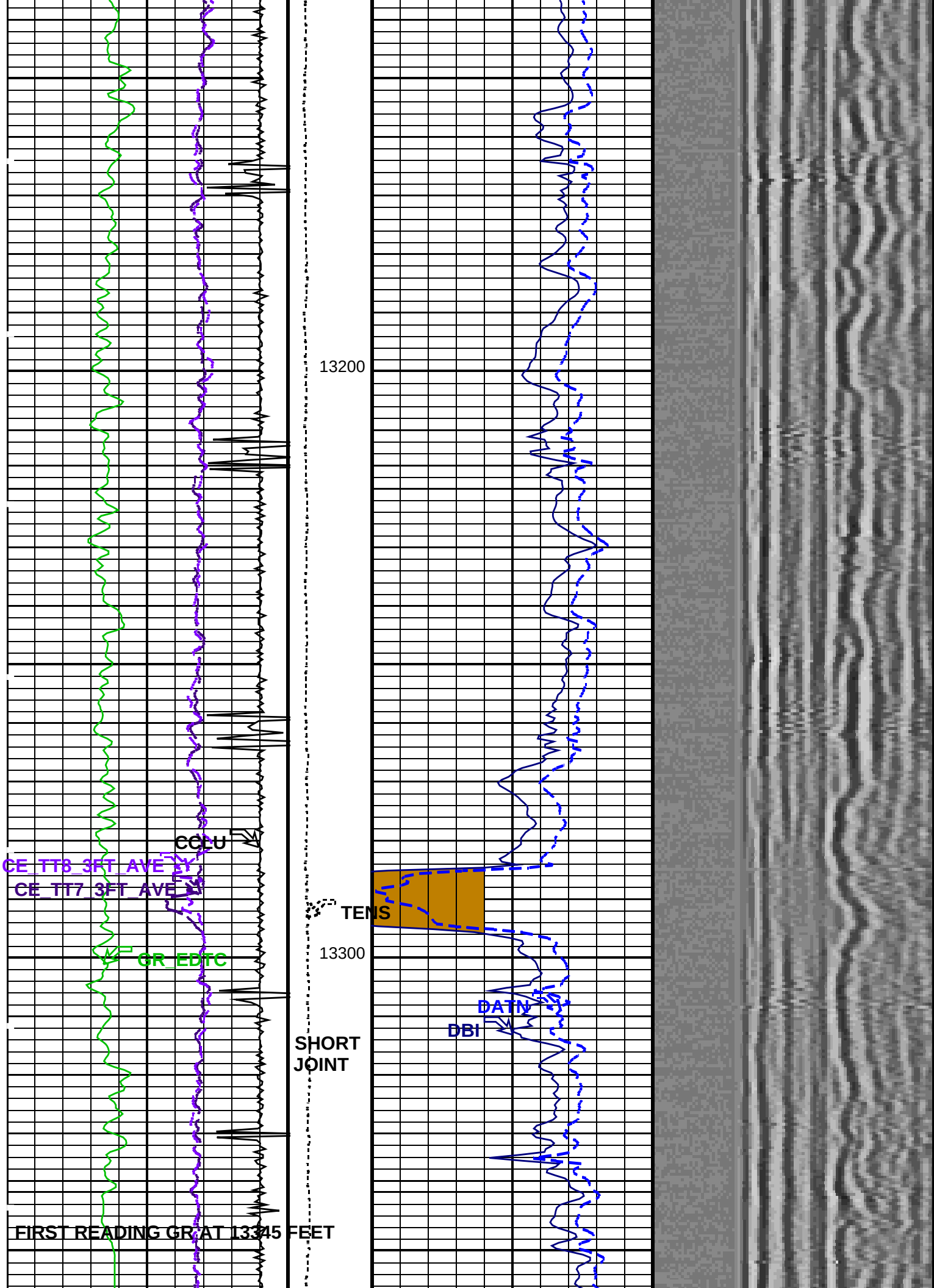
CCL (CCLU)
-36 (----) 4

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	USIT-D: Ultrasonic Imaging - D		
	Corrosion range minimum	-0.076	IN
	Corrosion range maximum	0.076	IN
	T^3 Processing Length for FPM	26.648	US
AGMN	Minimum Gain of Cartridge	-4	DB
AGMX	Maximum Gain of Cartridge	48	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	13.625	IN
CDUN	Curves Unit Declared in Presentation Manager	IN	
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	12.425	IN
CYST	Casing Yield Strength	0	PSI
DFVL	Default Fluid Velocity	206	US/F
DOT	Diameter of Transducer Sensor	6.938	IN
EMXV	EMEX Voltage	125	V
FDII	FPM Data Interpolation Interval	0	FT
FSOD	Fluid Slowness Fits Casing Outer Diameter	0_OFF	
IMAR	Image Rotation	RB	
MW	Mud Weight	12.7	LB/G
OPLEV	USIT Remove Flagged Data Level	level2	
RCOD	Reference Calibrator Outer Diameter	7	IN
RCSO	Reference Calibrator Standoff	1.37795	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
SDNV	Number of Vertical Samples used for Micro-debonding Computation	5	
SDTHOR	Acoustic Impedance STD Horizontal Threshold for Micro-debonding	0.5	
SDTVER	Acoustic Impedance STD Vertical Threshold for Micro-debonding	0.3	
SUBT	Ultrasonic Subassembly Type	Sub_10_34_inch_S	
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	170	
THDL	Minimum Search Thickness (percentage of nominal)	85	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.6	IN
TMUC	Type of Mud	OBM	
U-USIT_RFWB	USIT Remove Flagged Data Window Begin	0	US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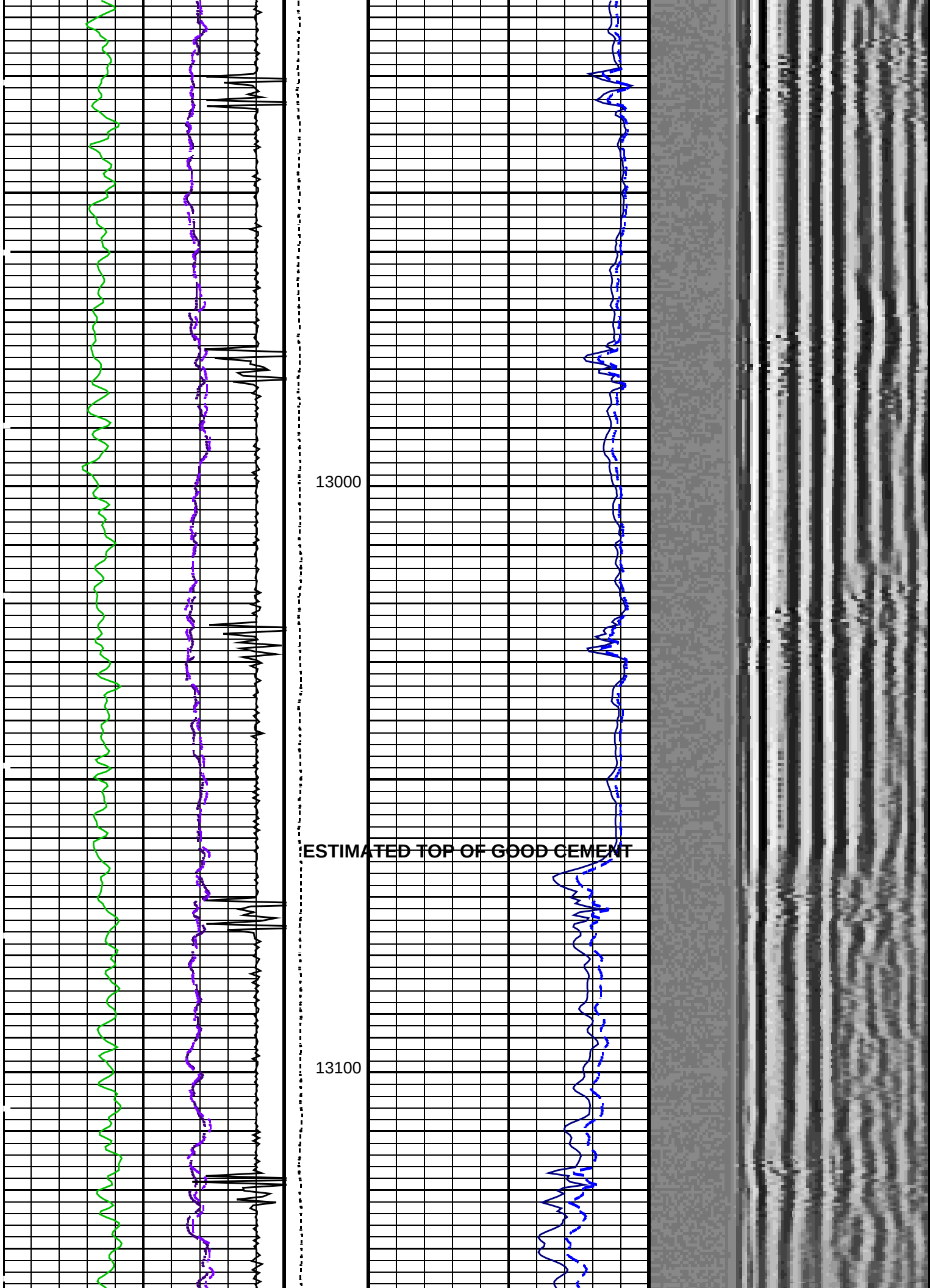
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
13300
GR_EDTC
DATN
DBI
SHORT
JOINT
FIRST READING GR AT 13345 FEET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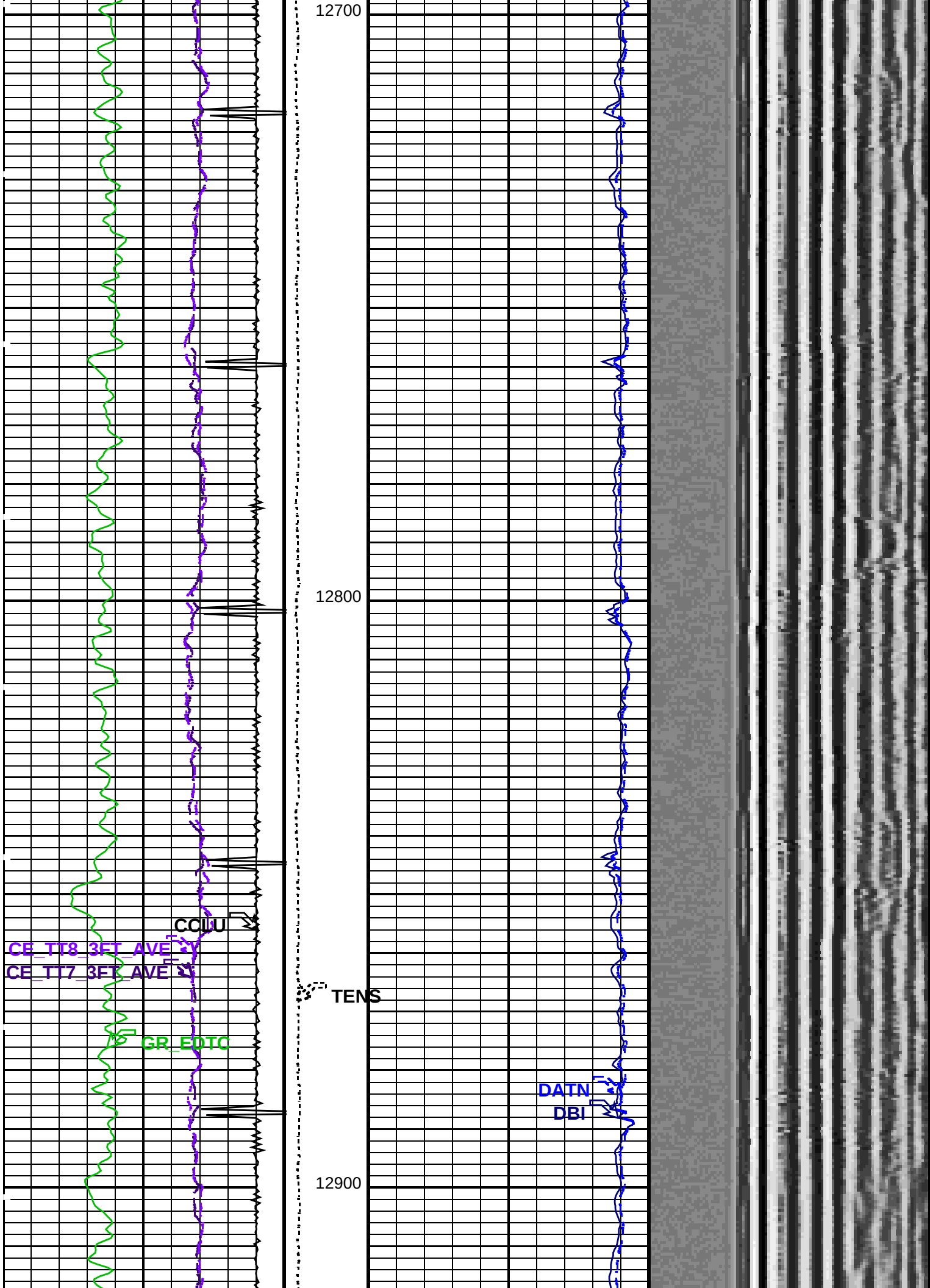
ESTIMATED TOP OF GOOD CEMENT
13100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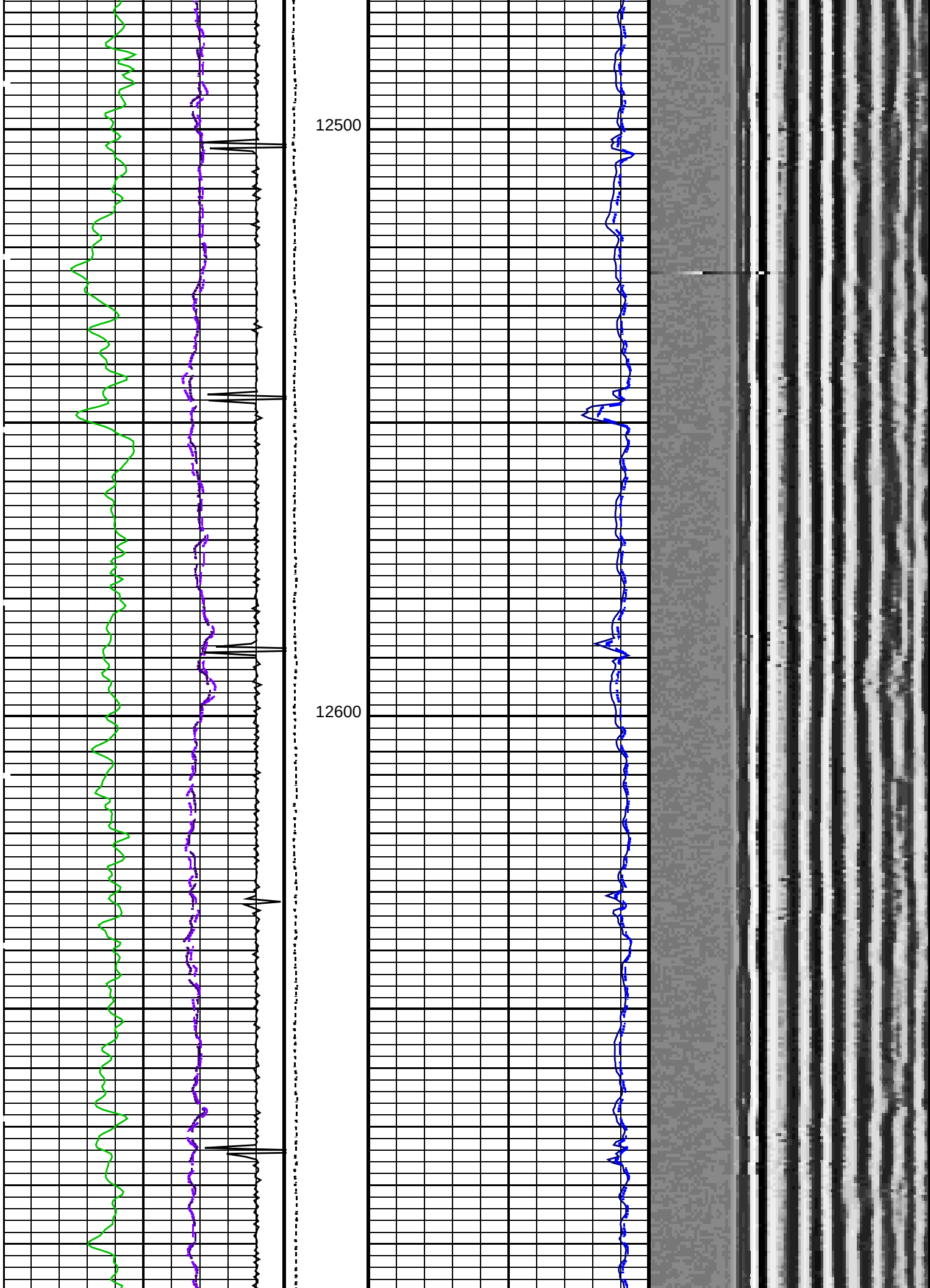
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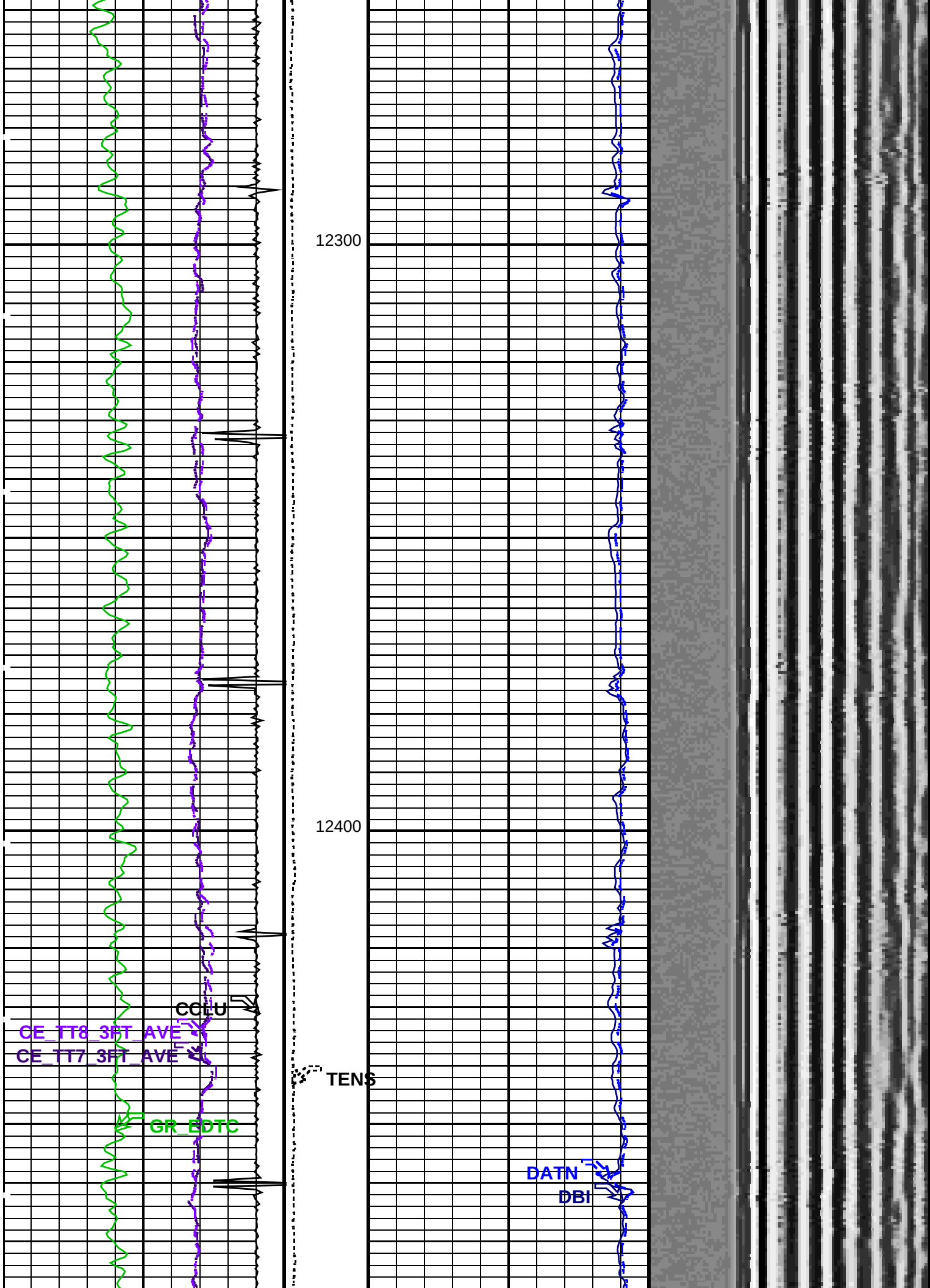
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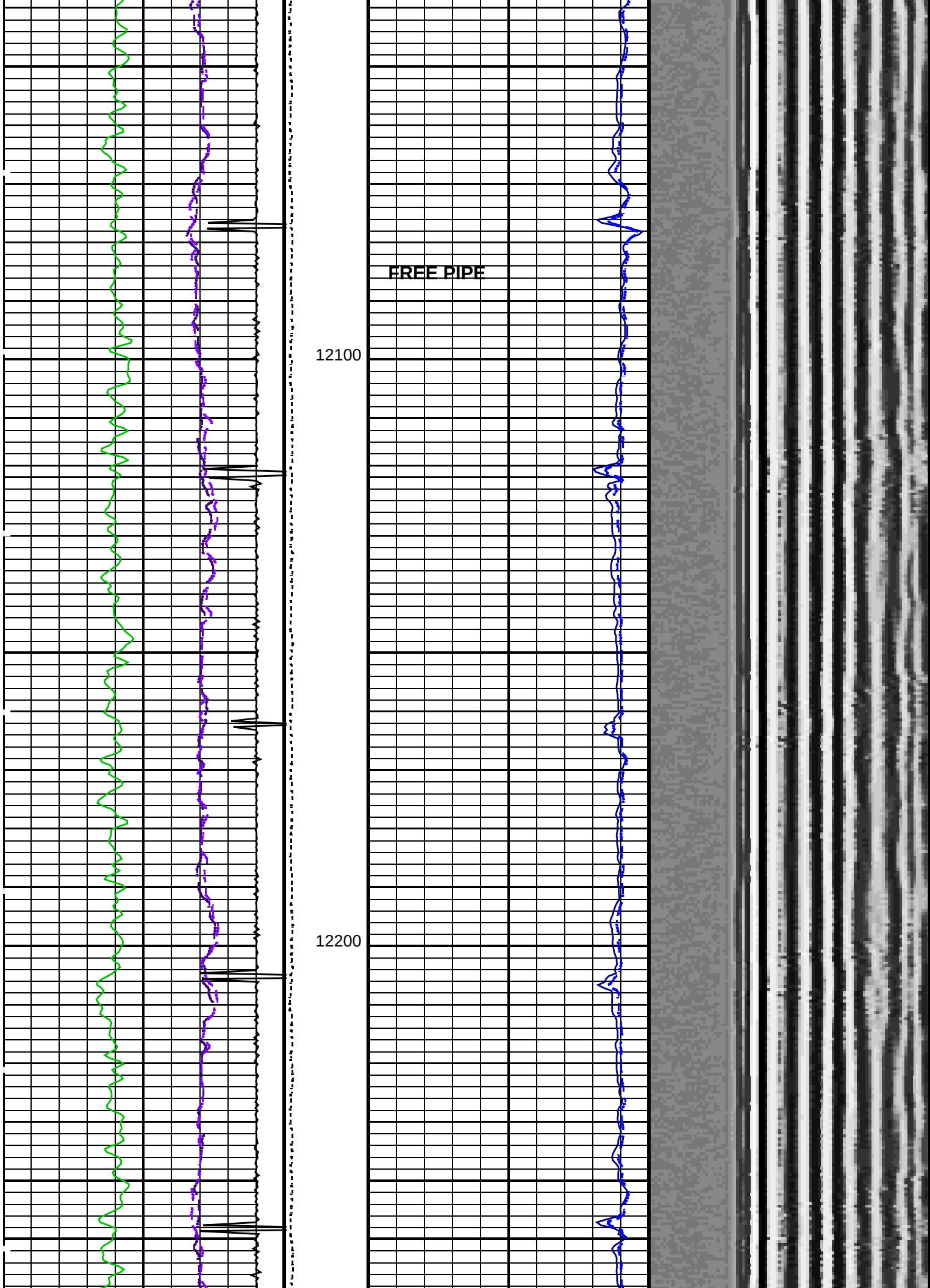
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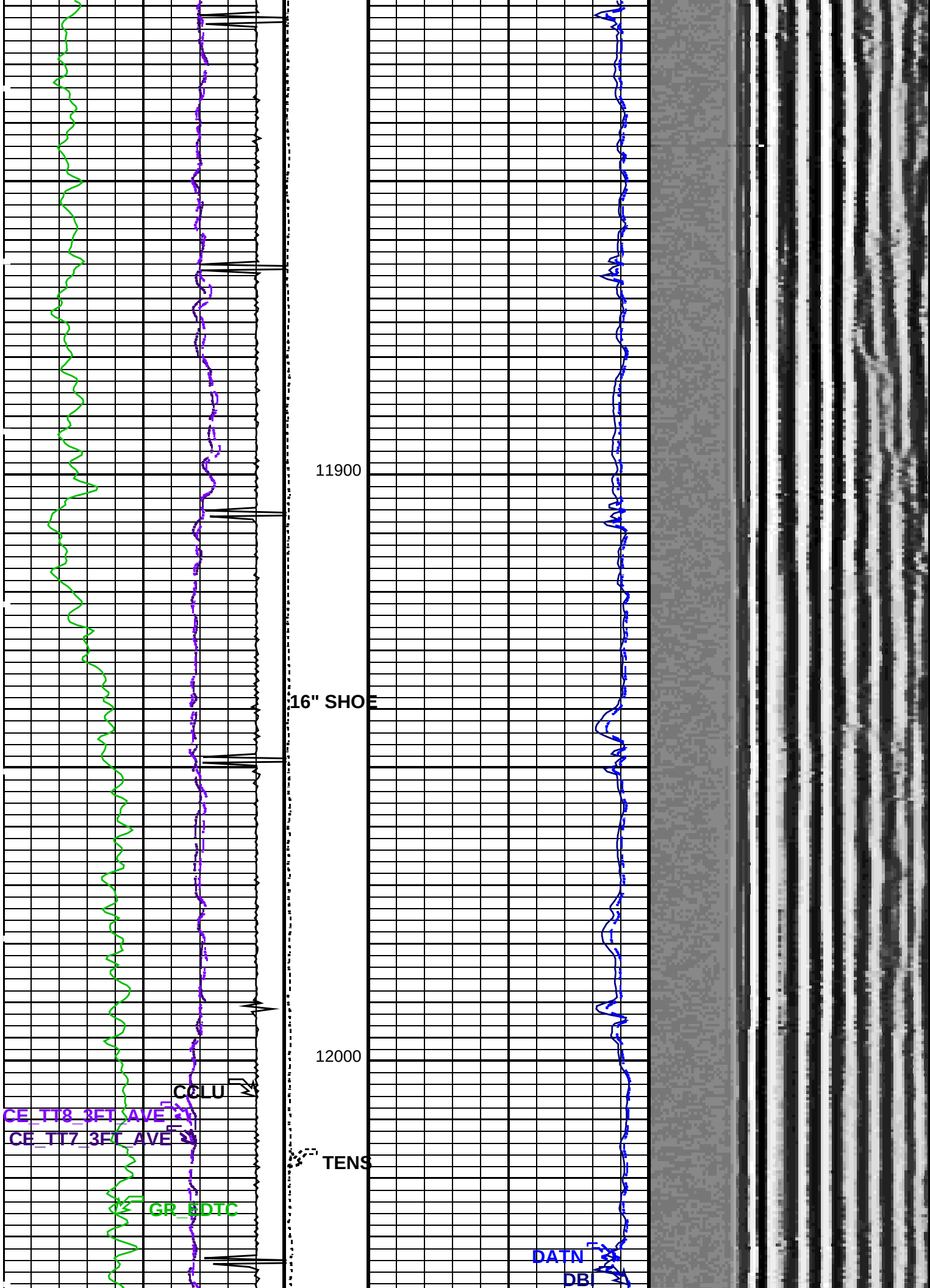
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16" SHOE
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DATN
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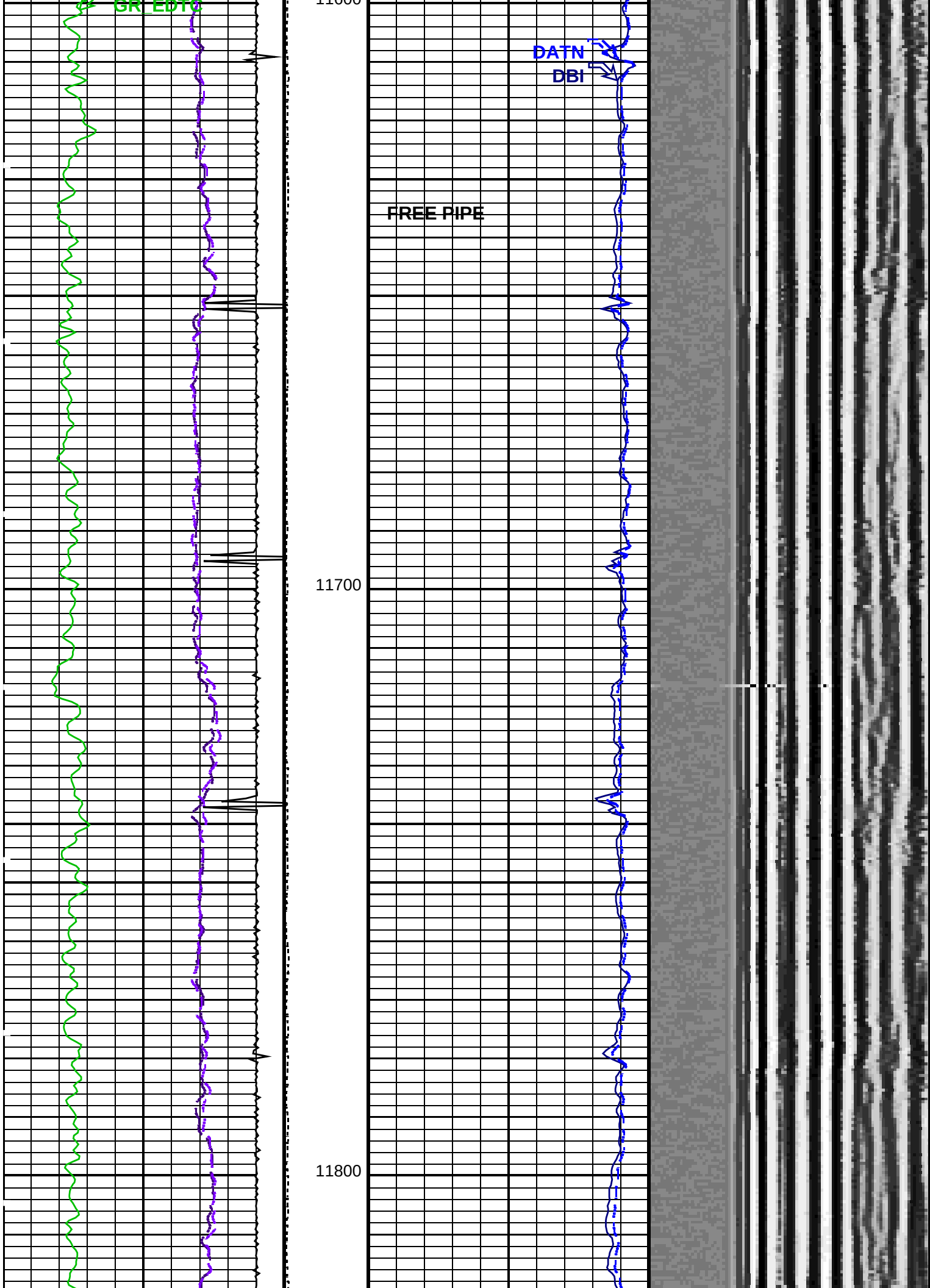
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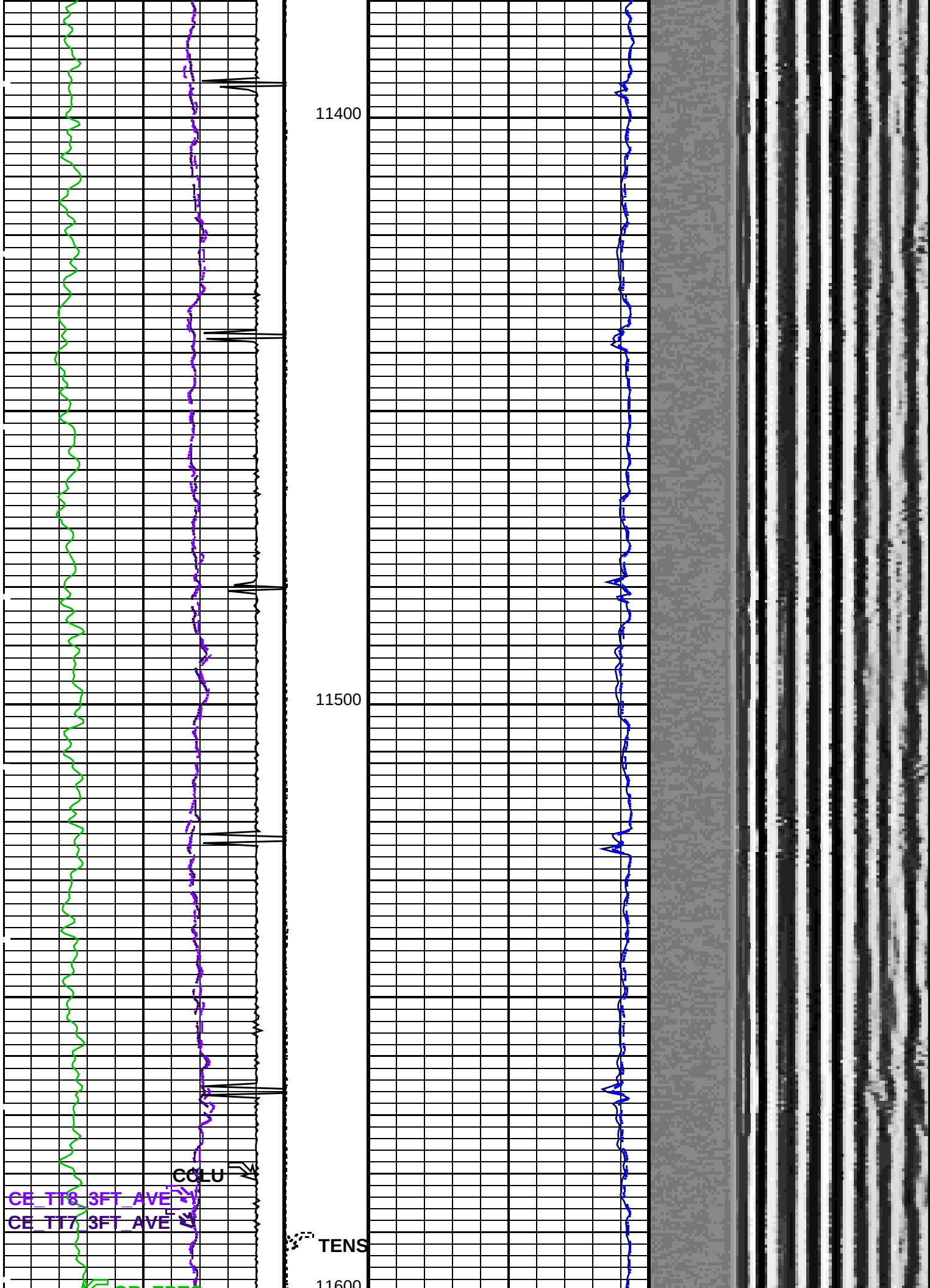
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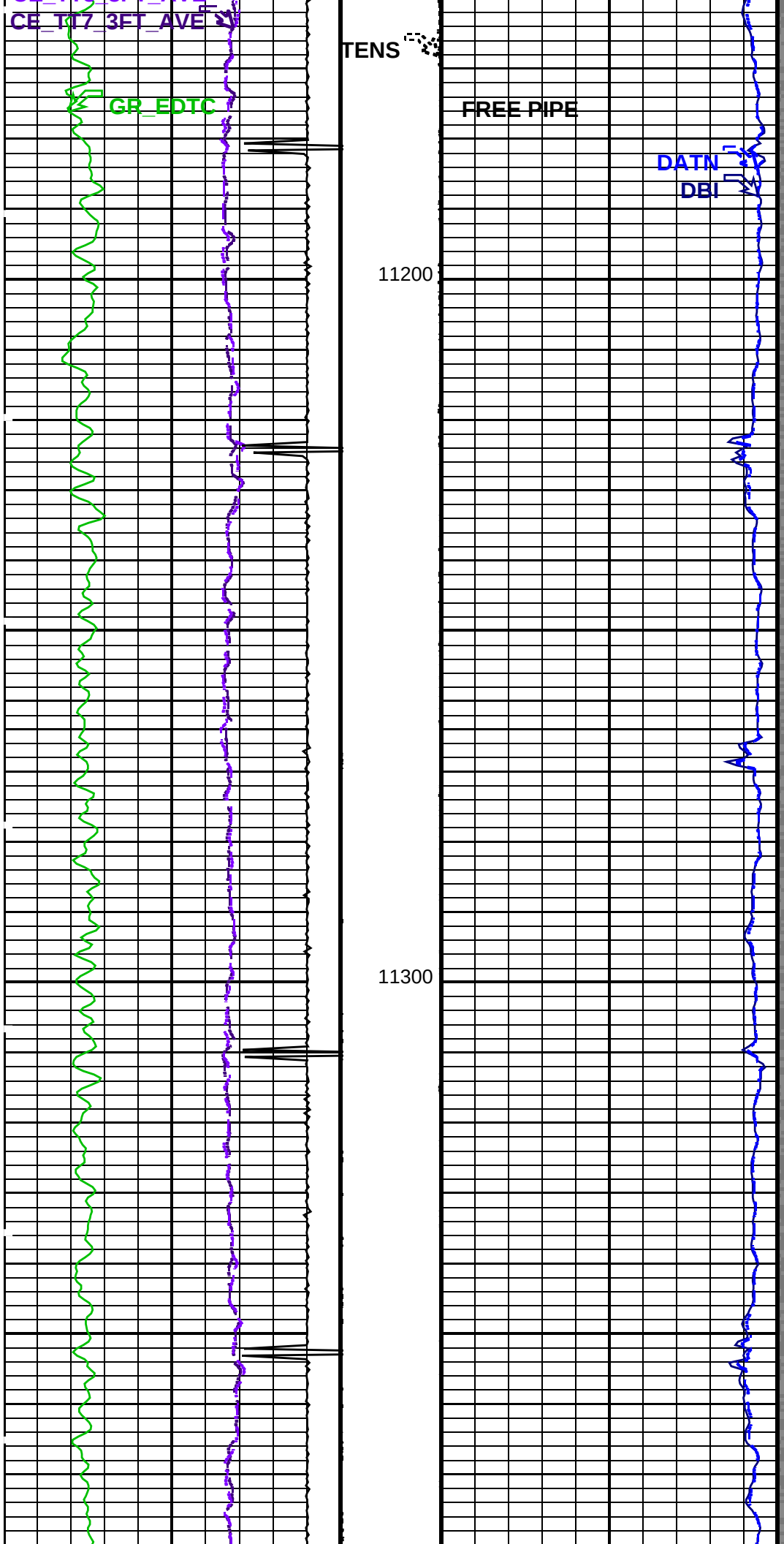
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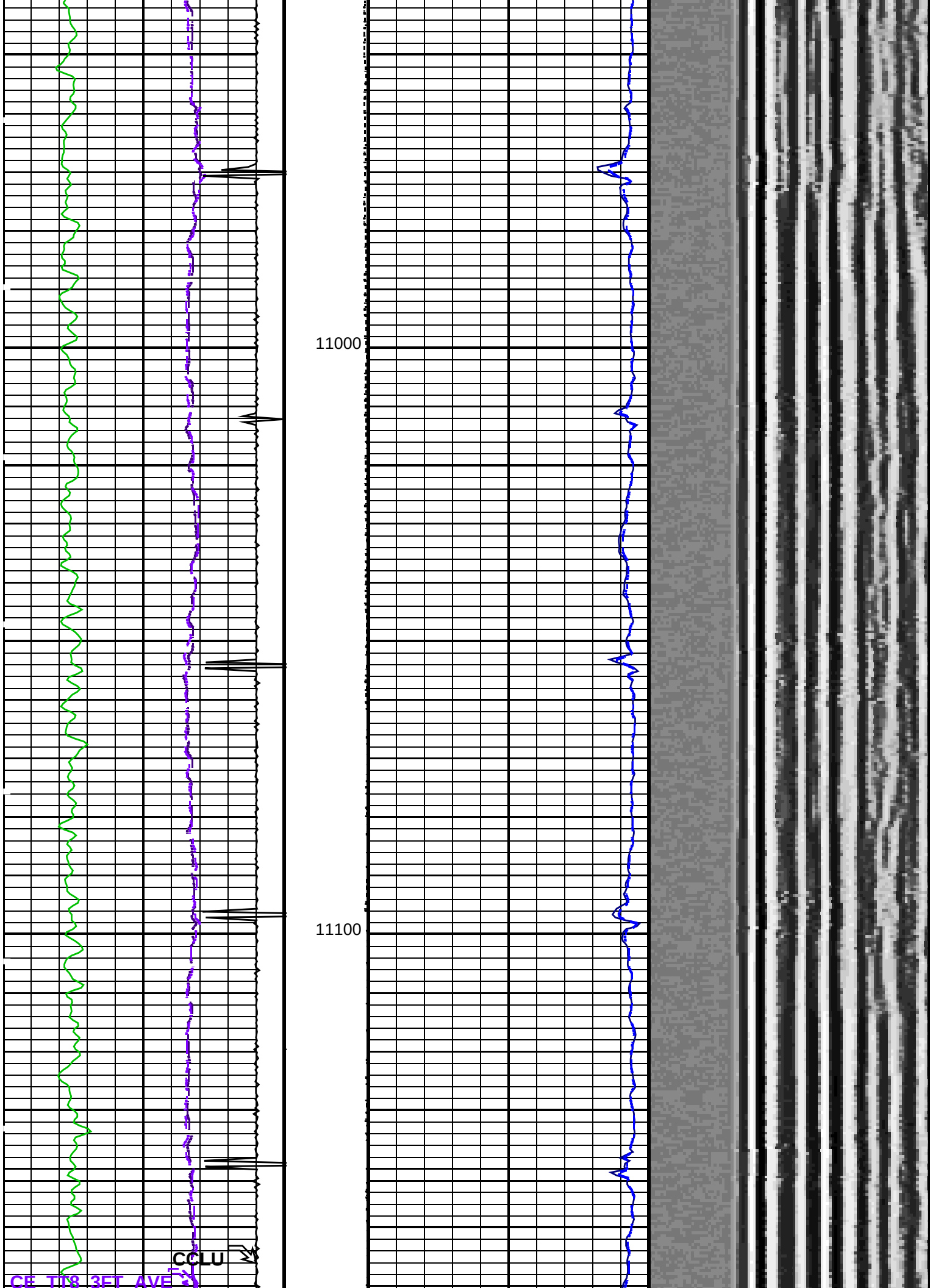
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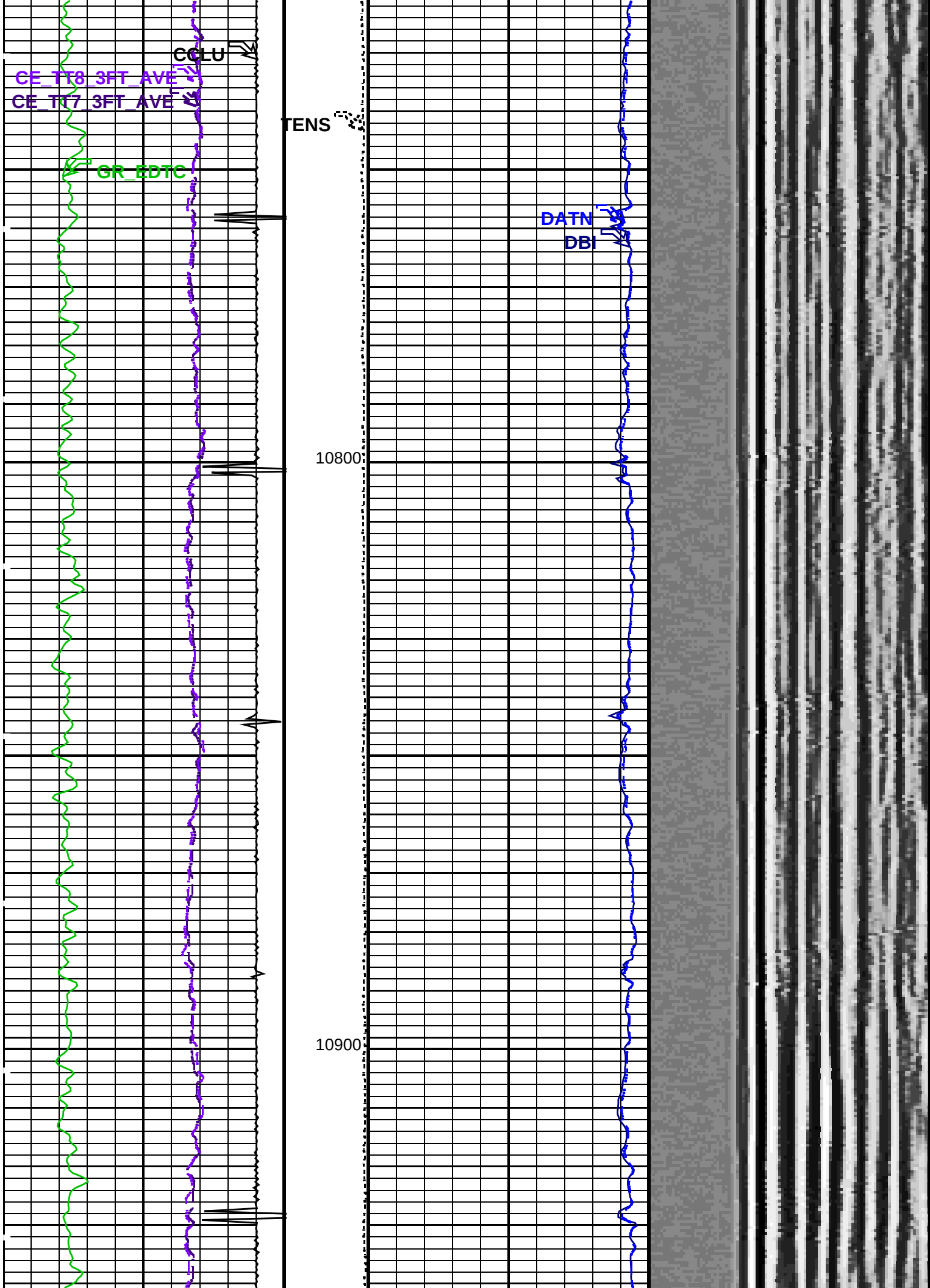
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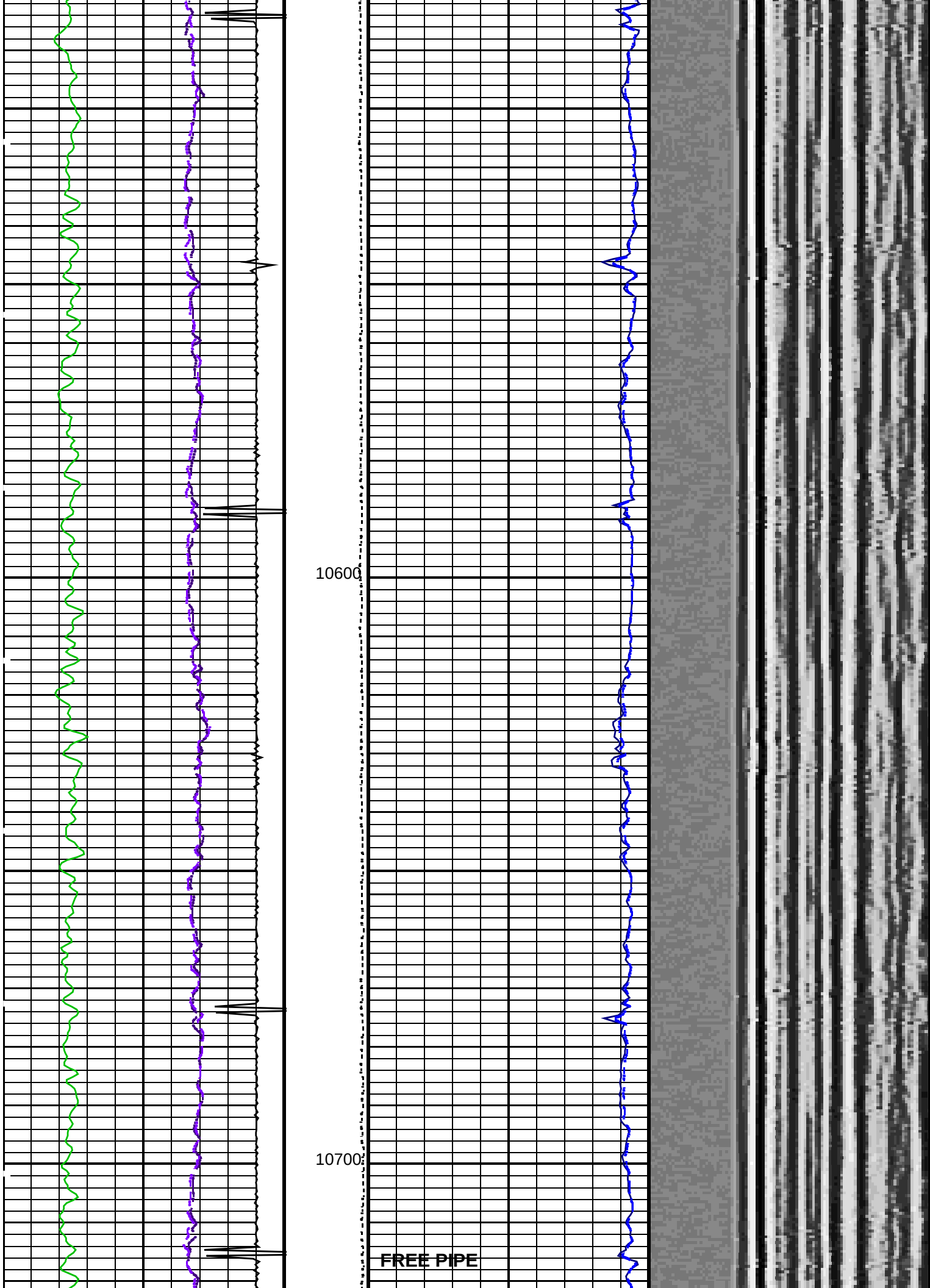
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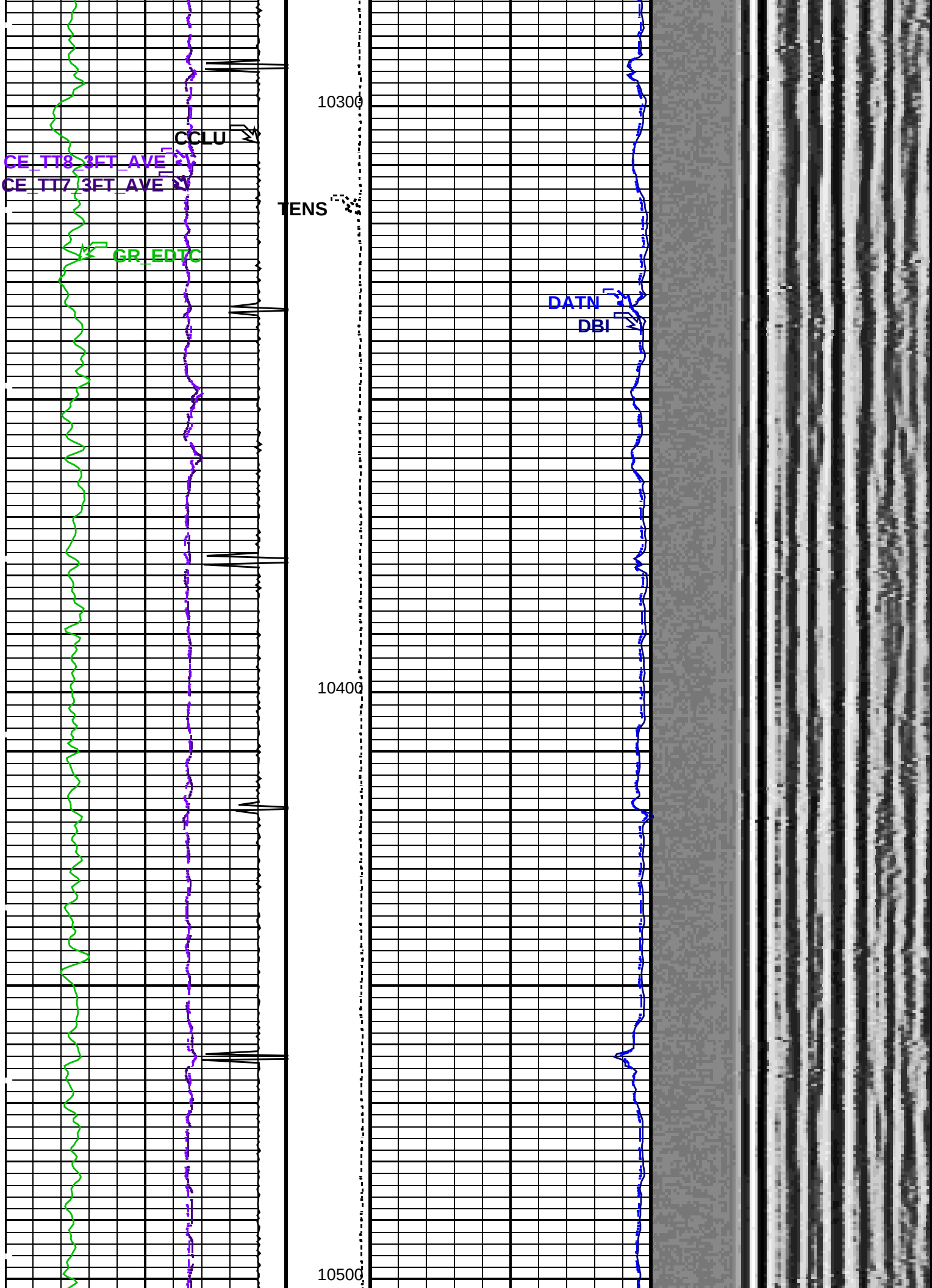
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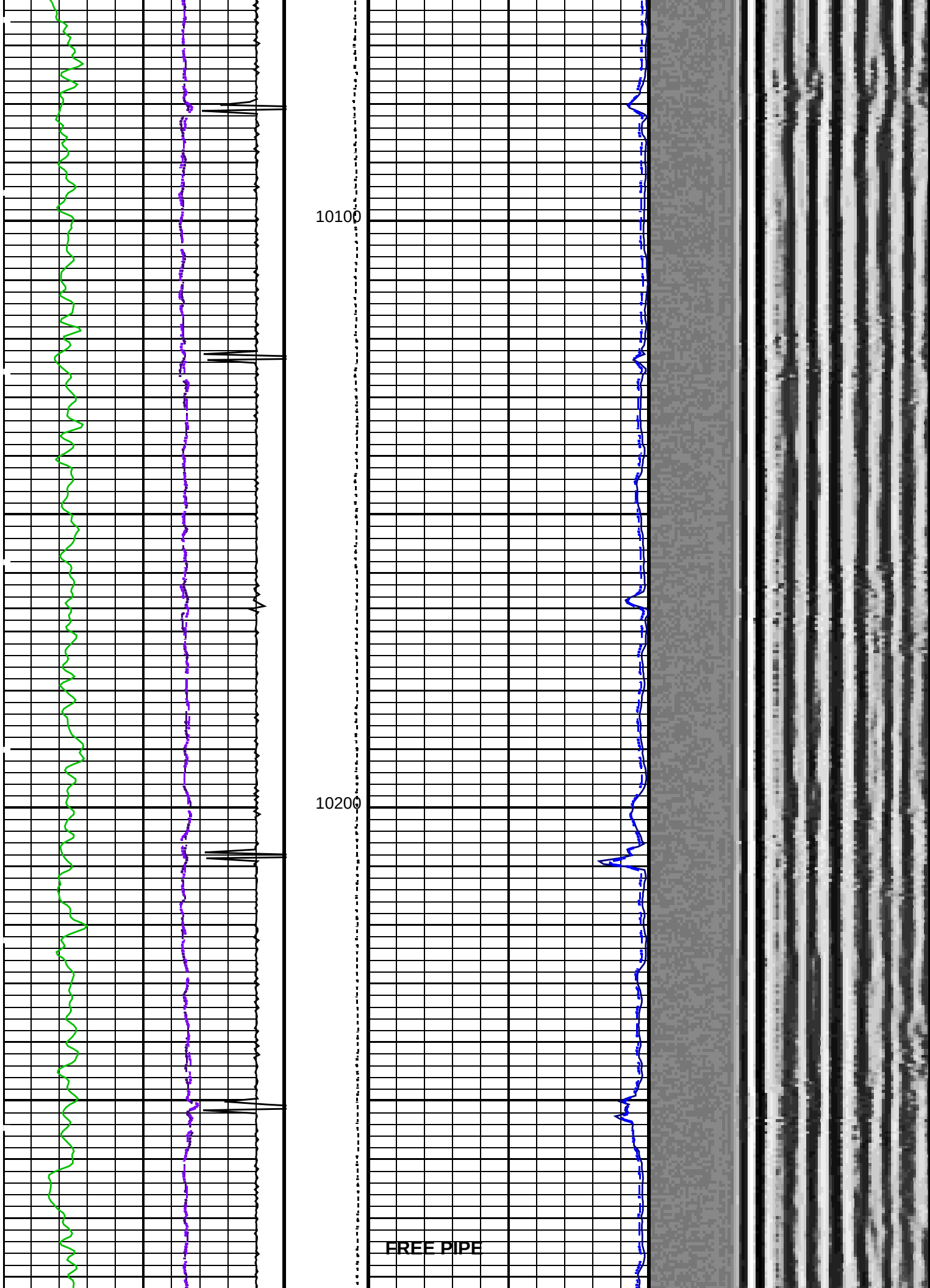
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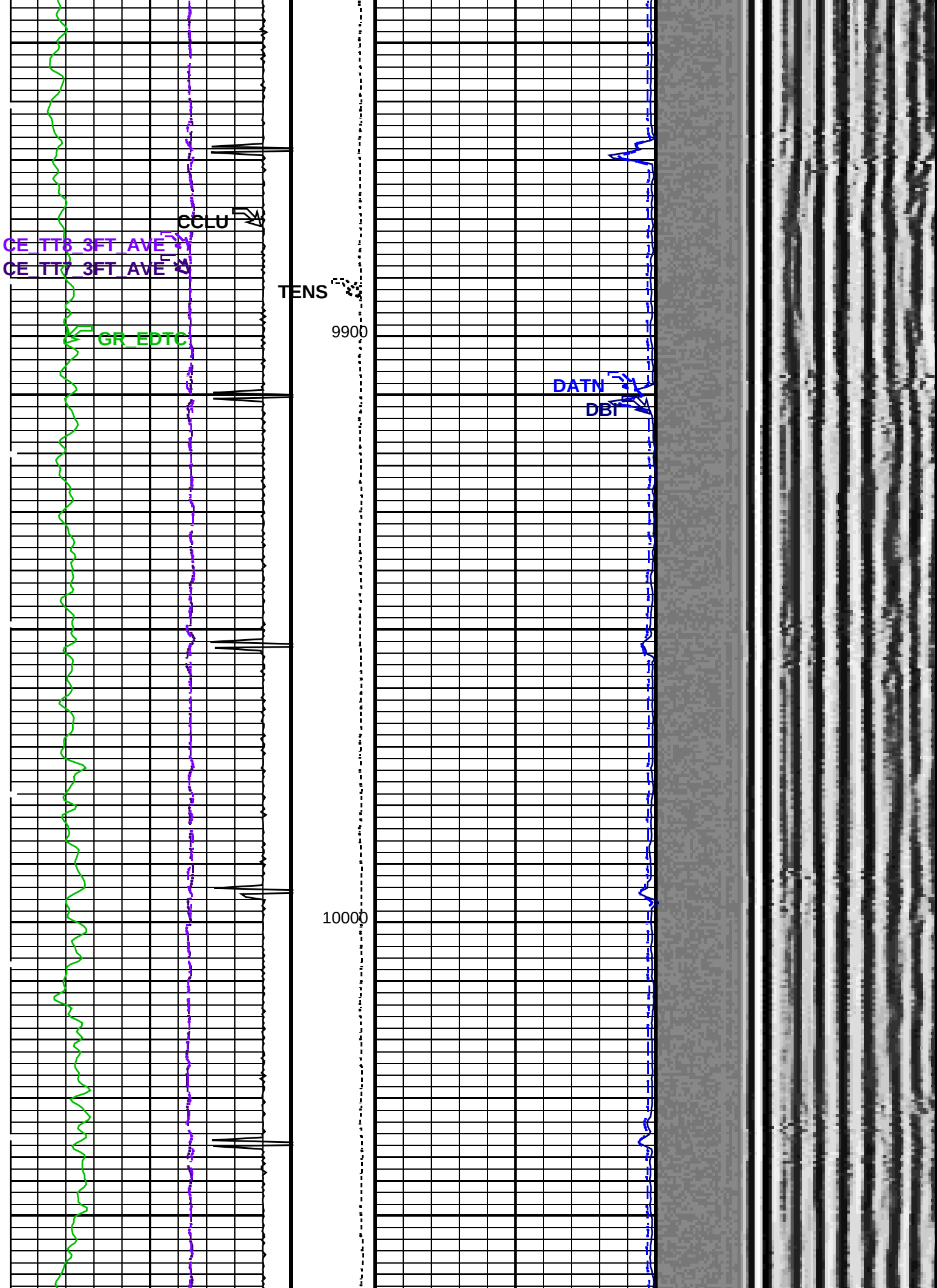
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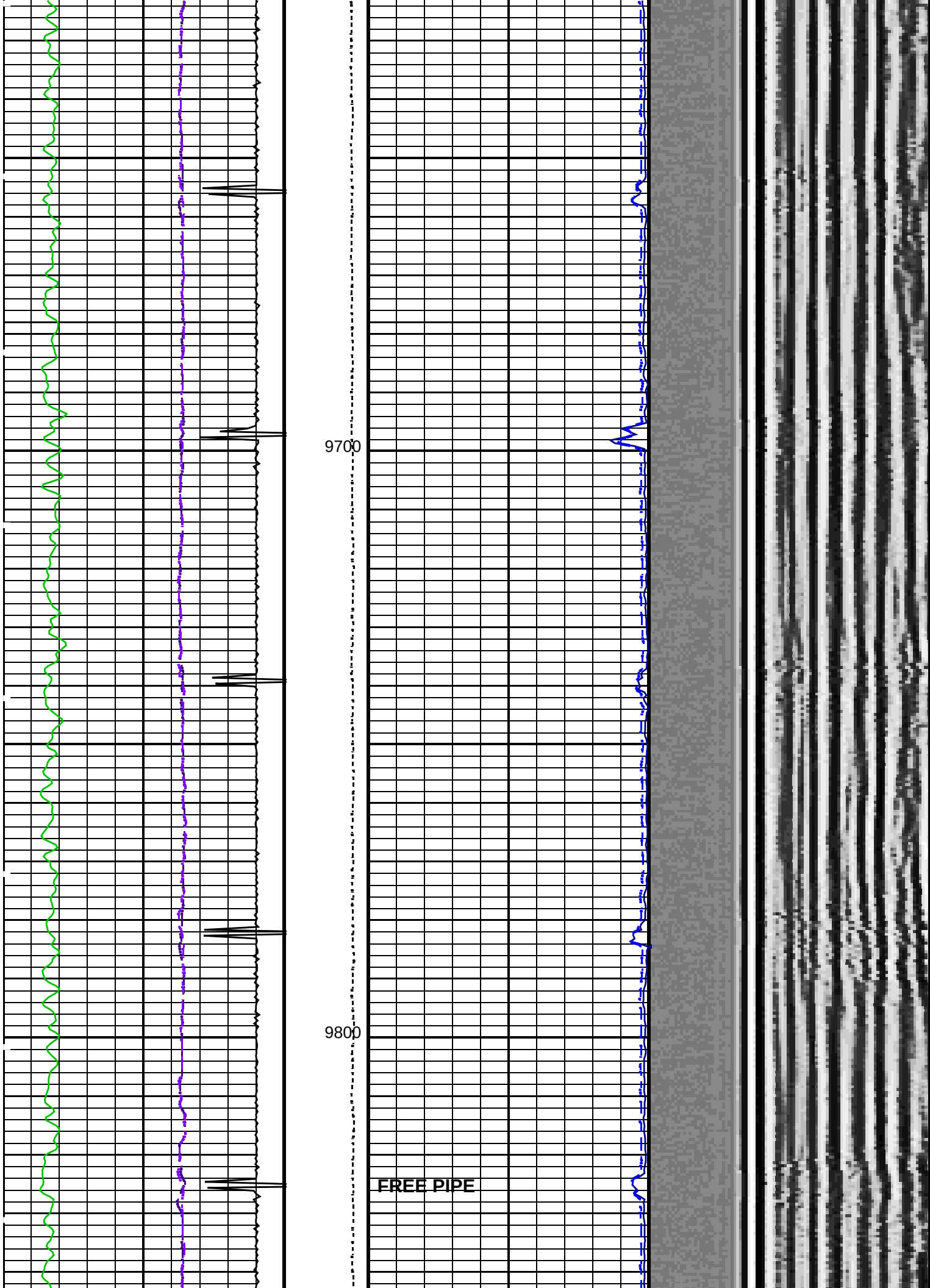
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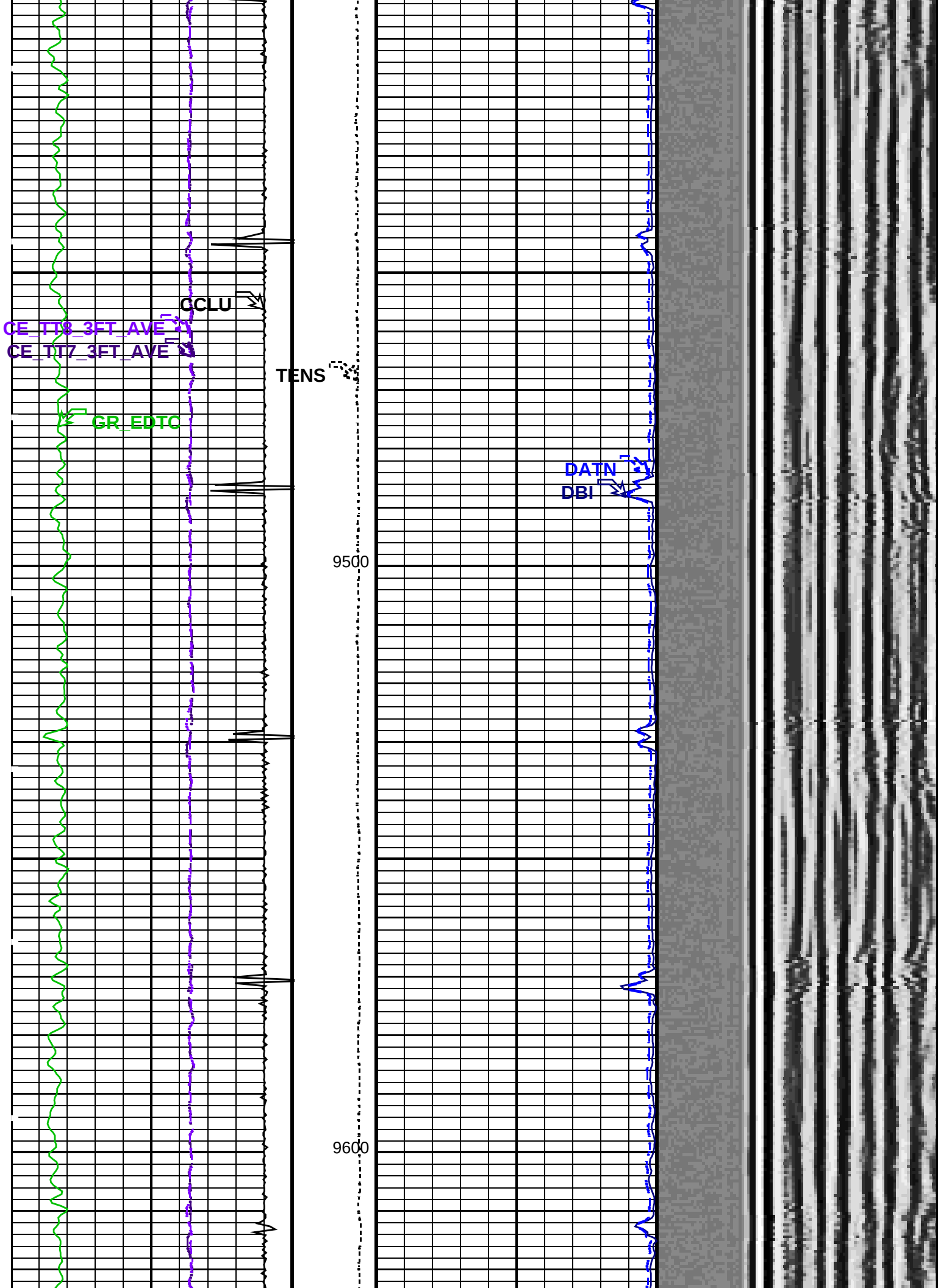
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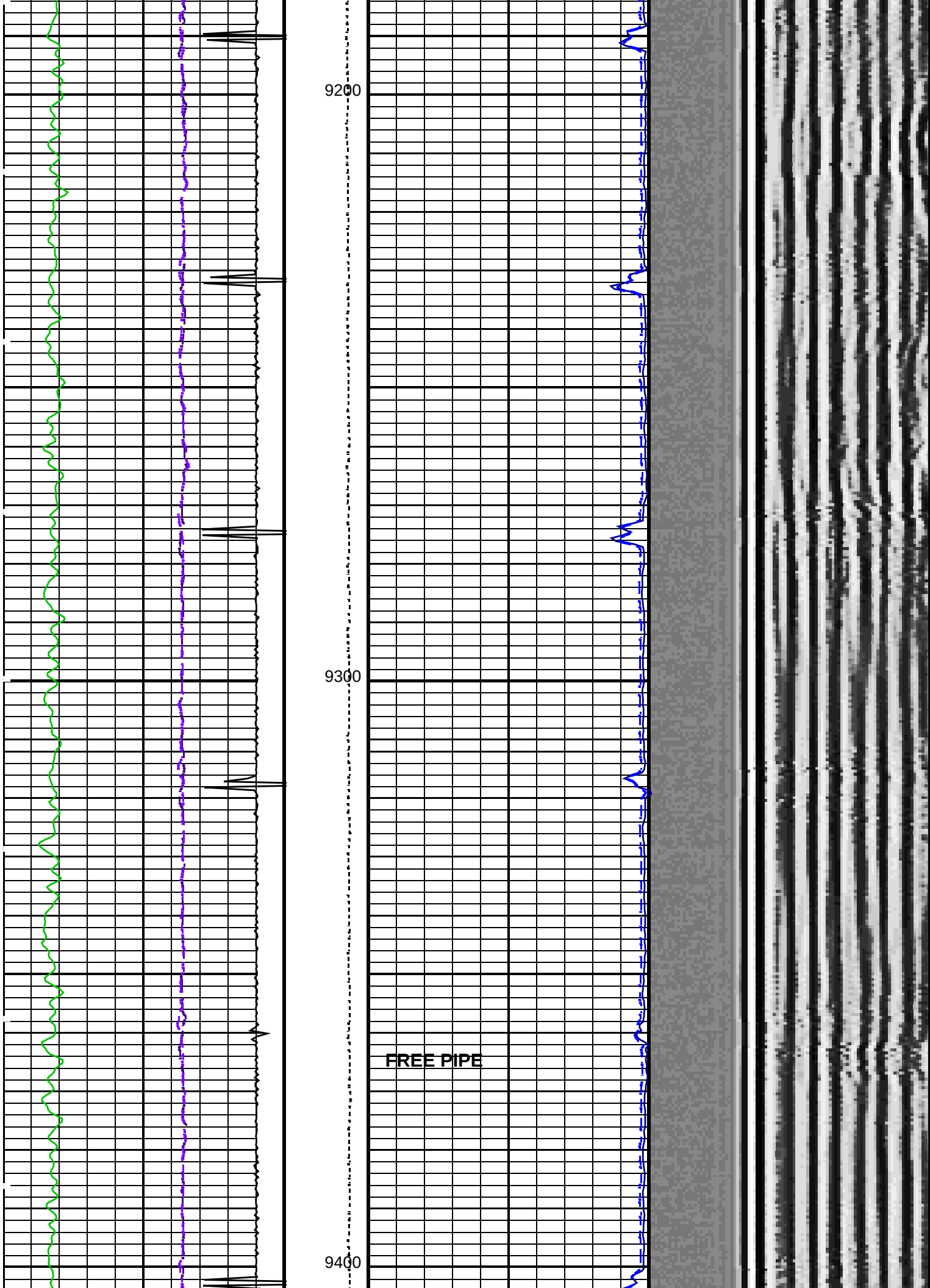
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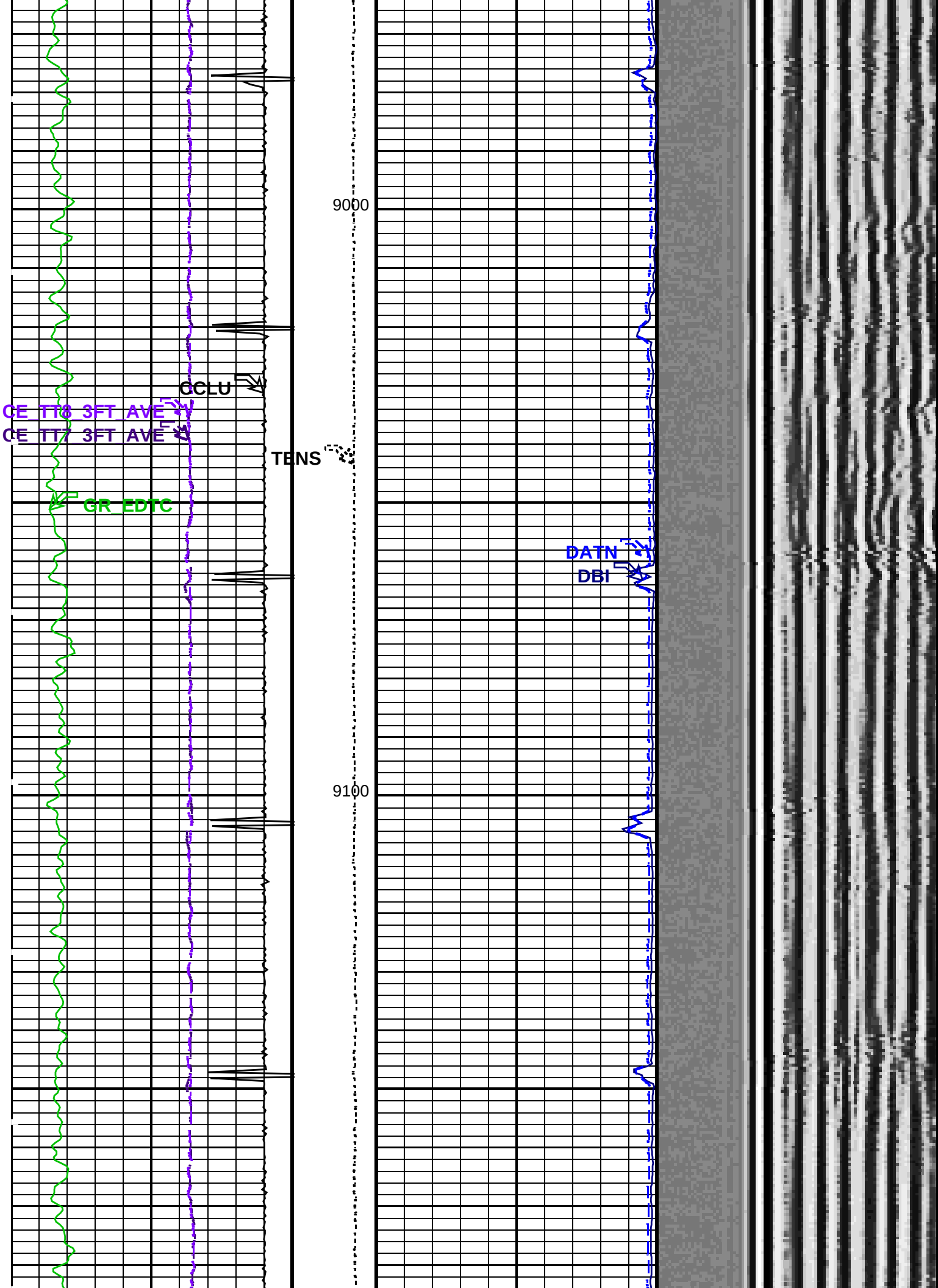
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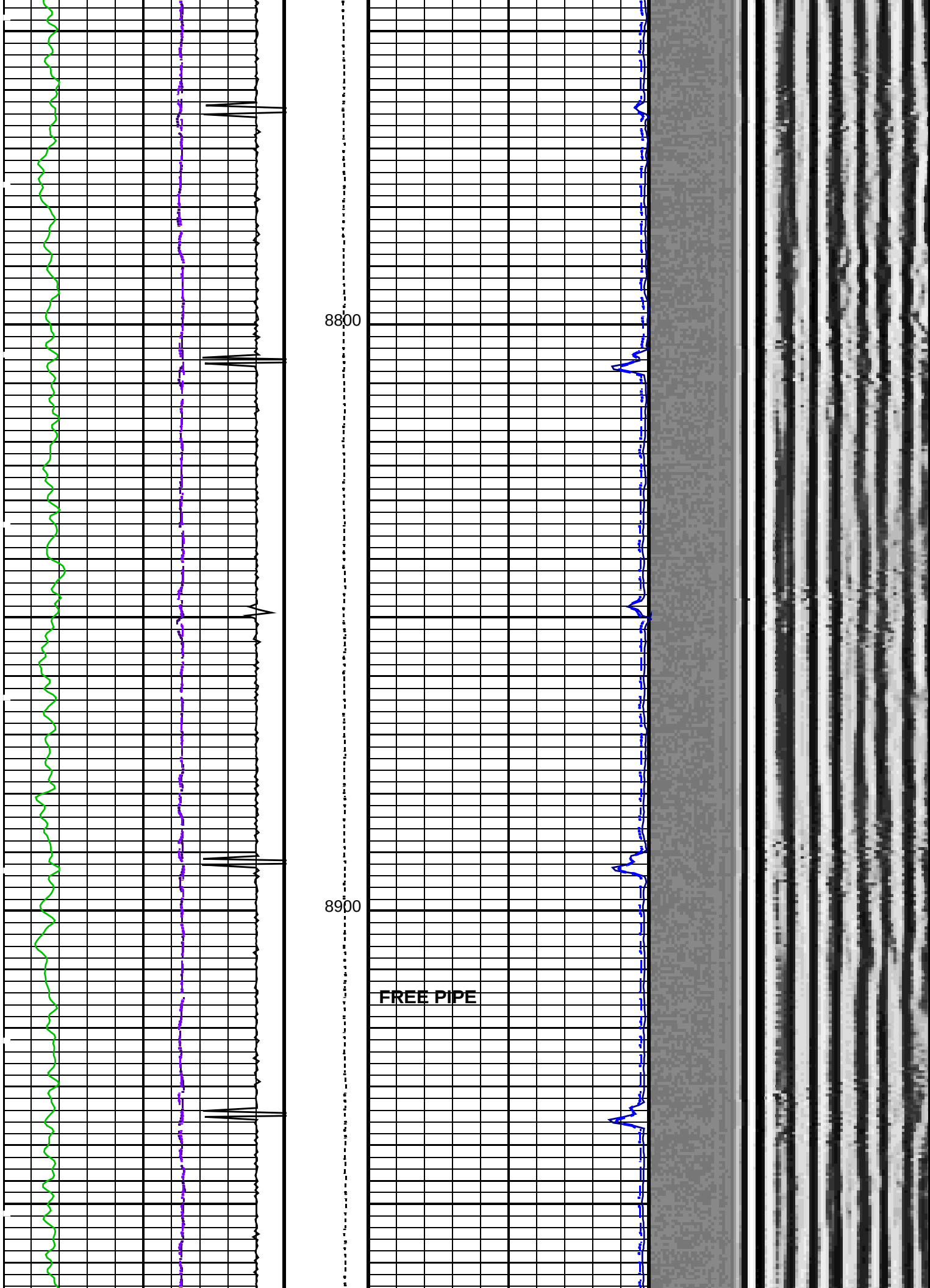
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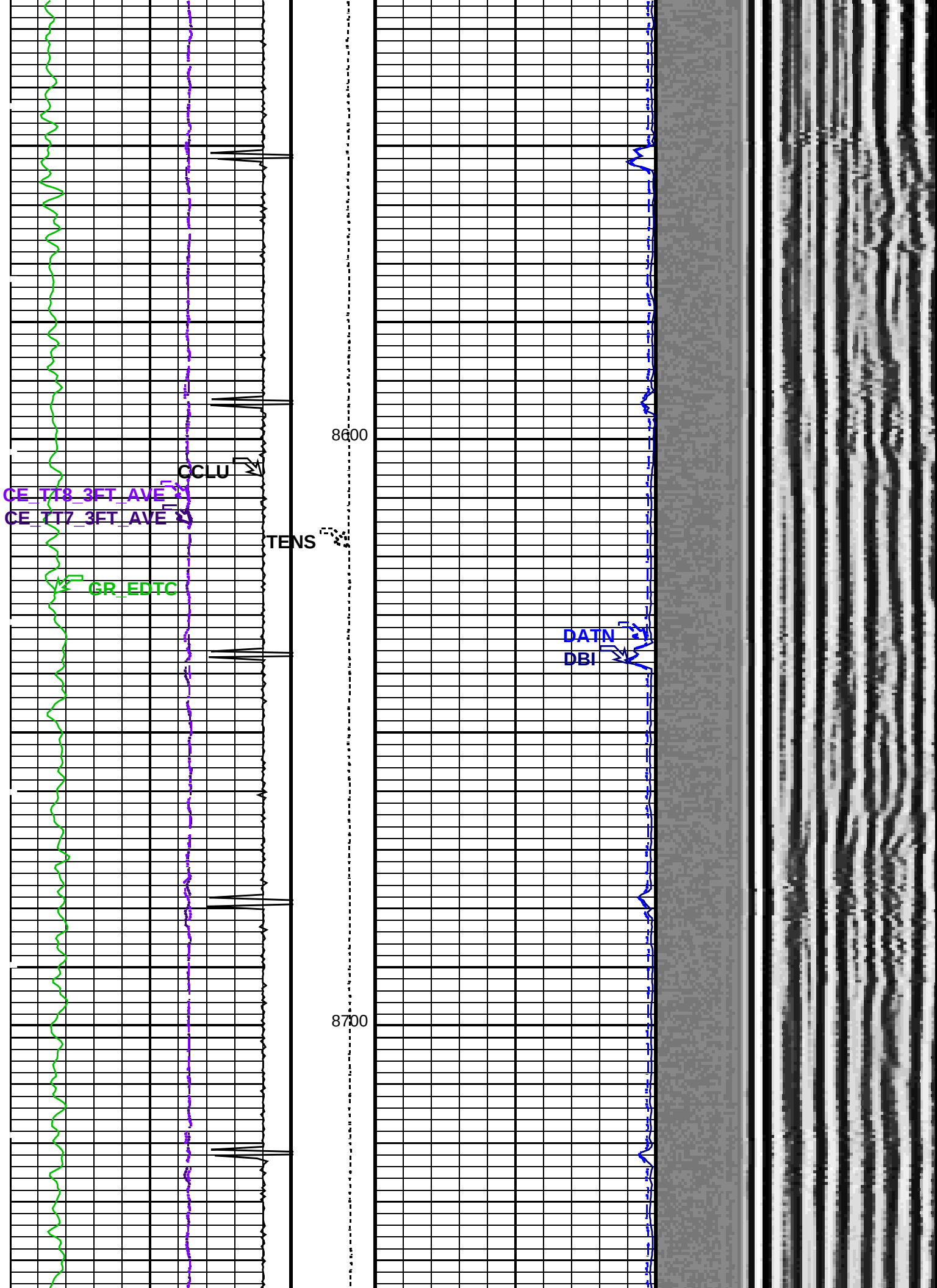
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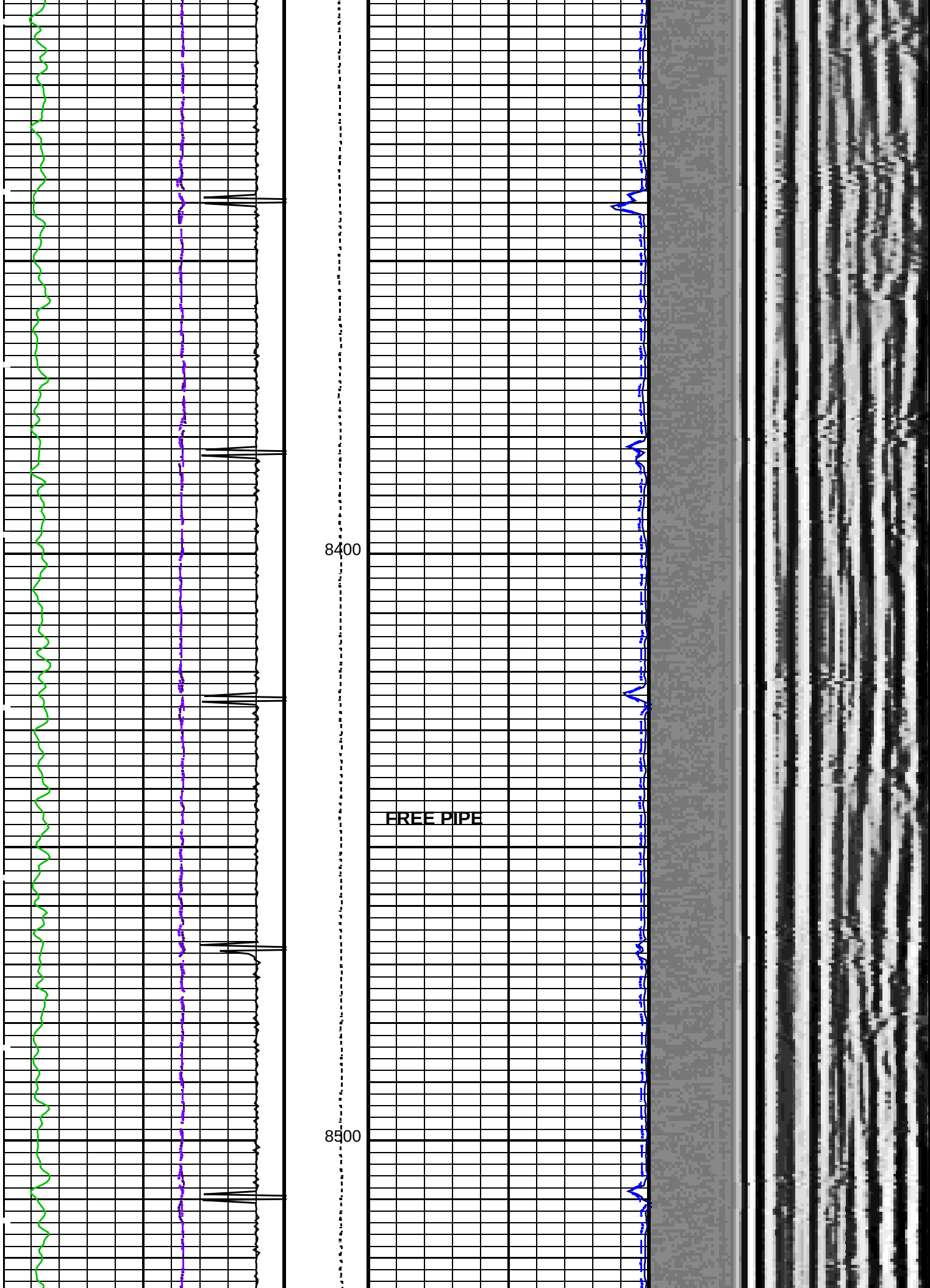
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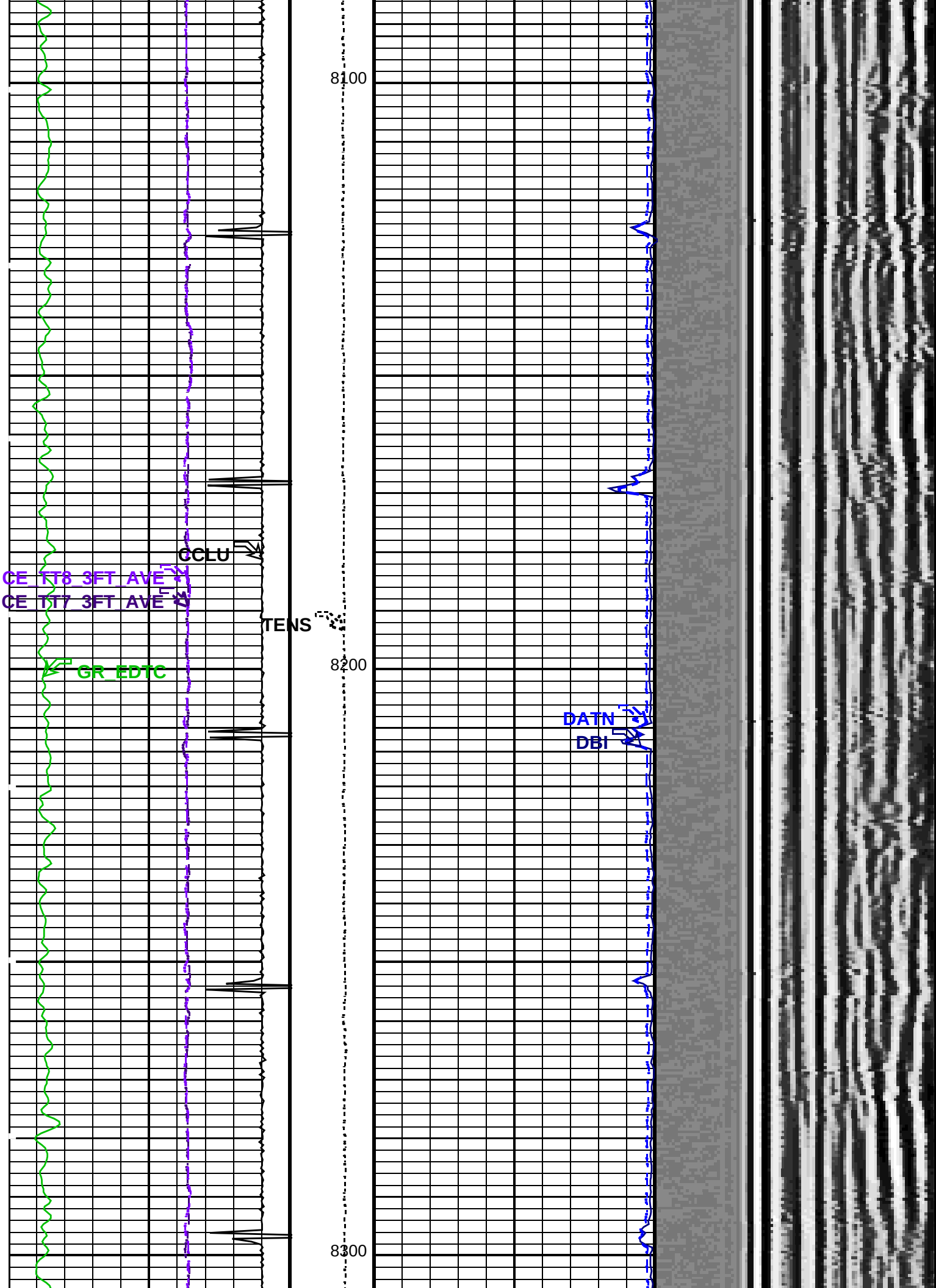
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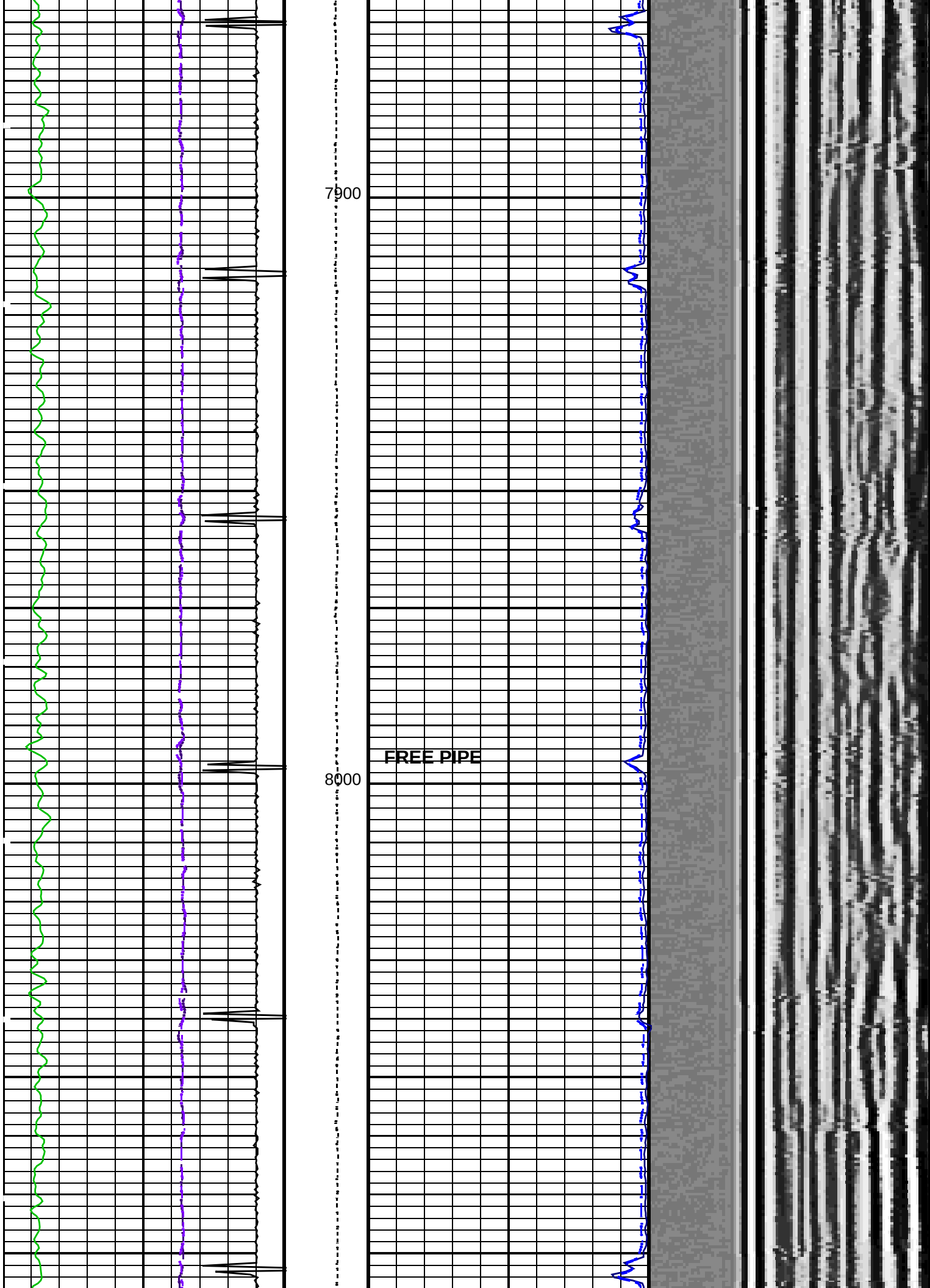
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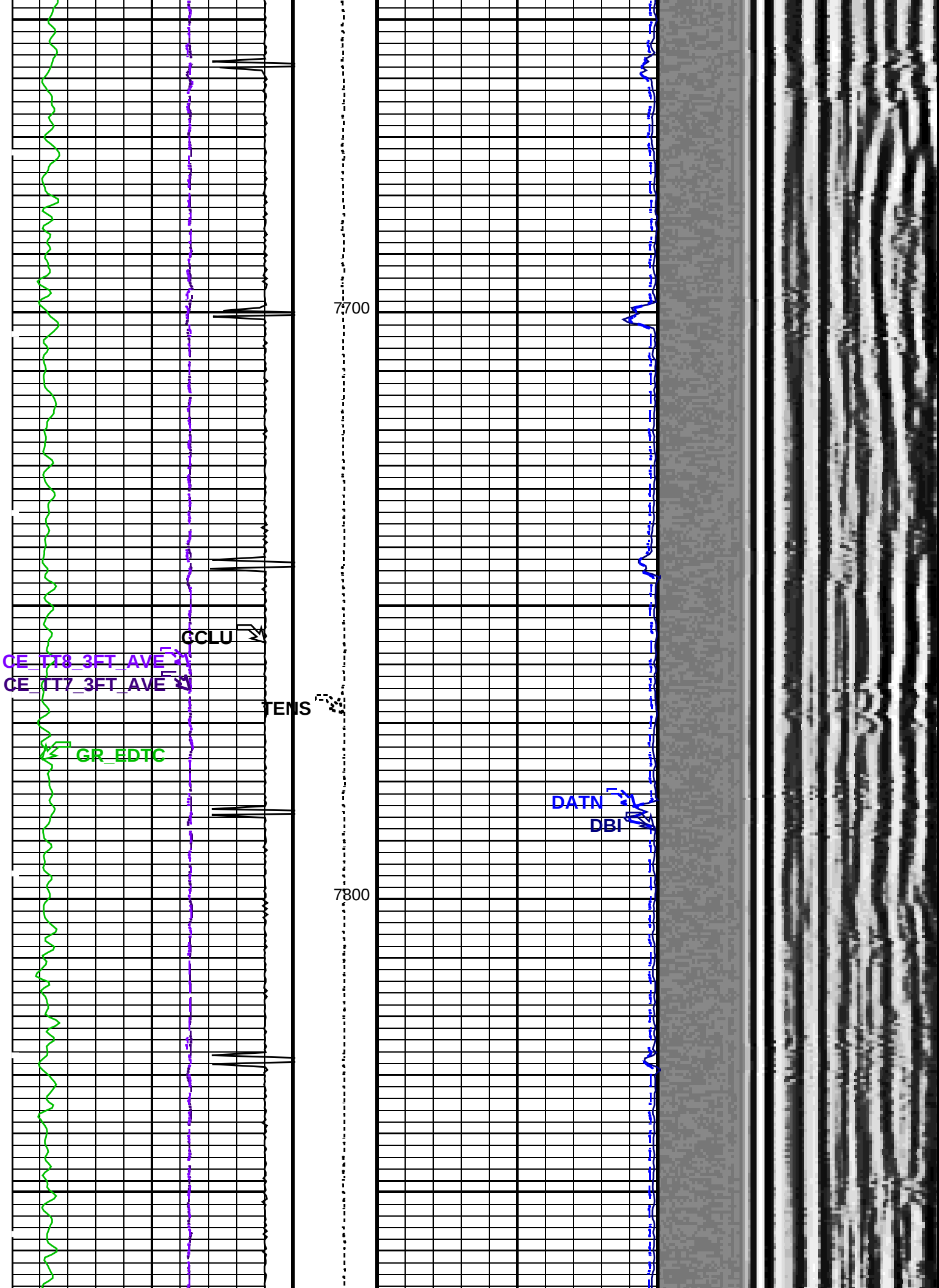
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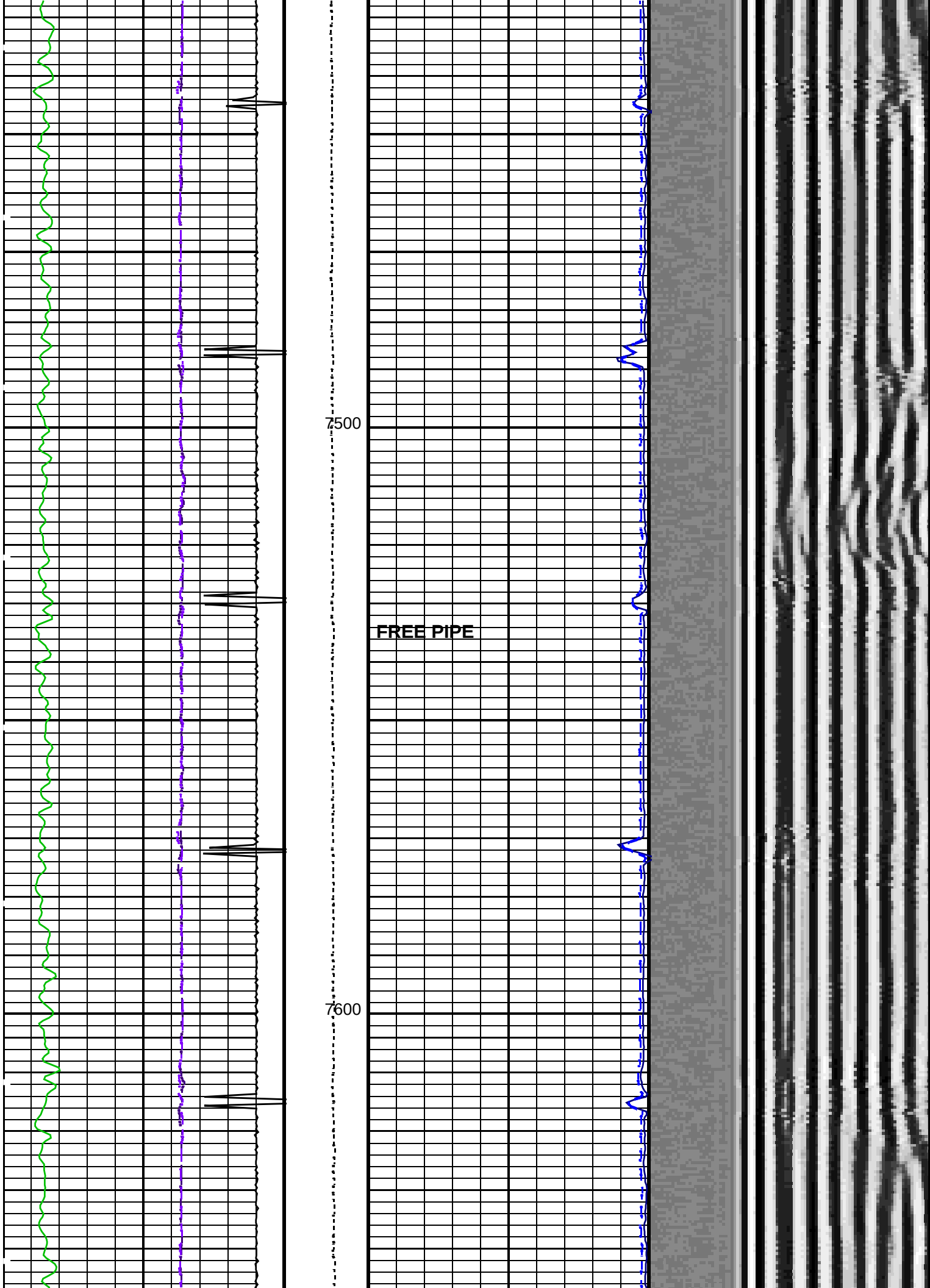
CE_TT8_3FT_AVE
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI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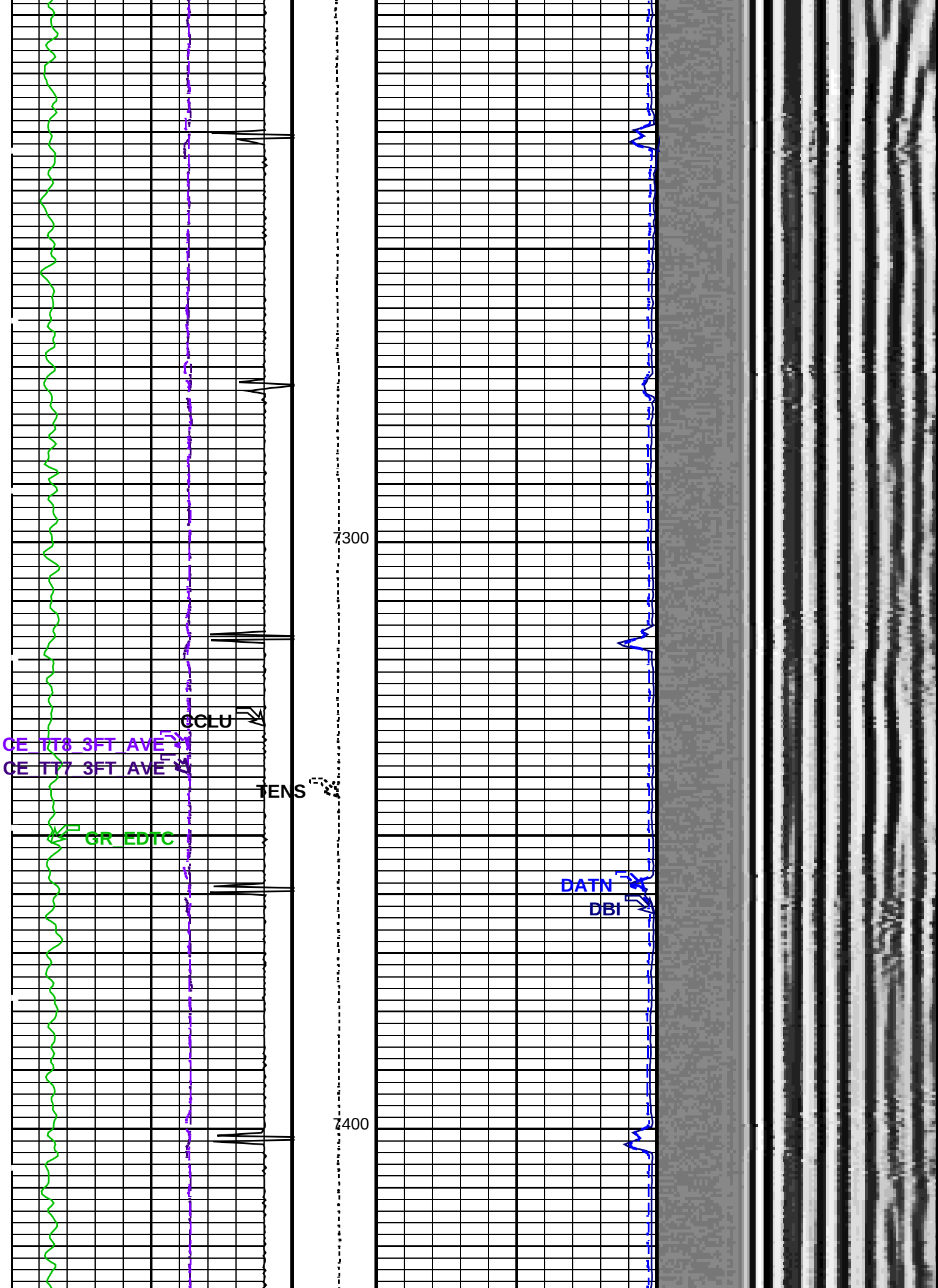
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GR_EDTC
DATN
DBI
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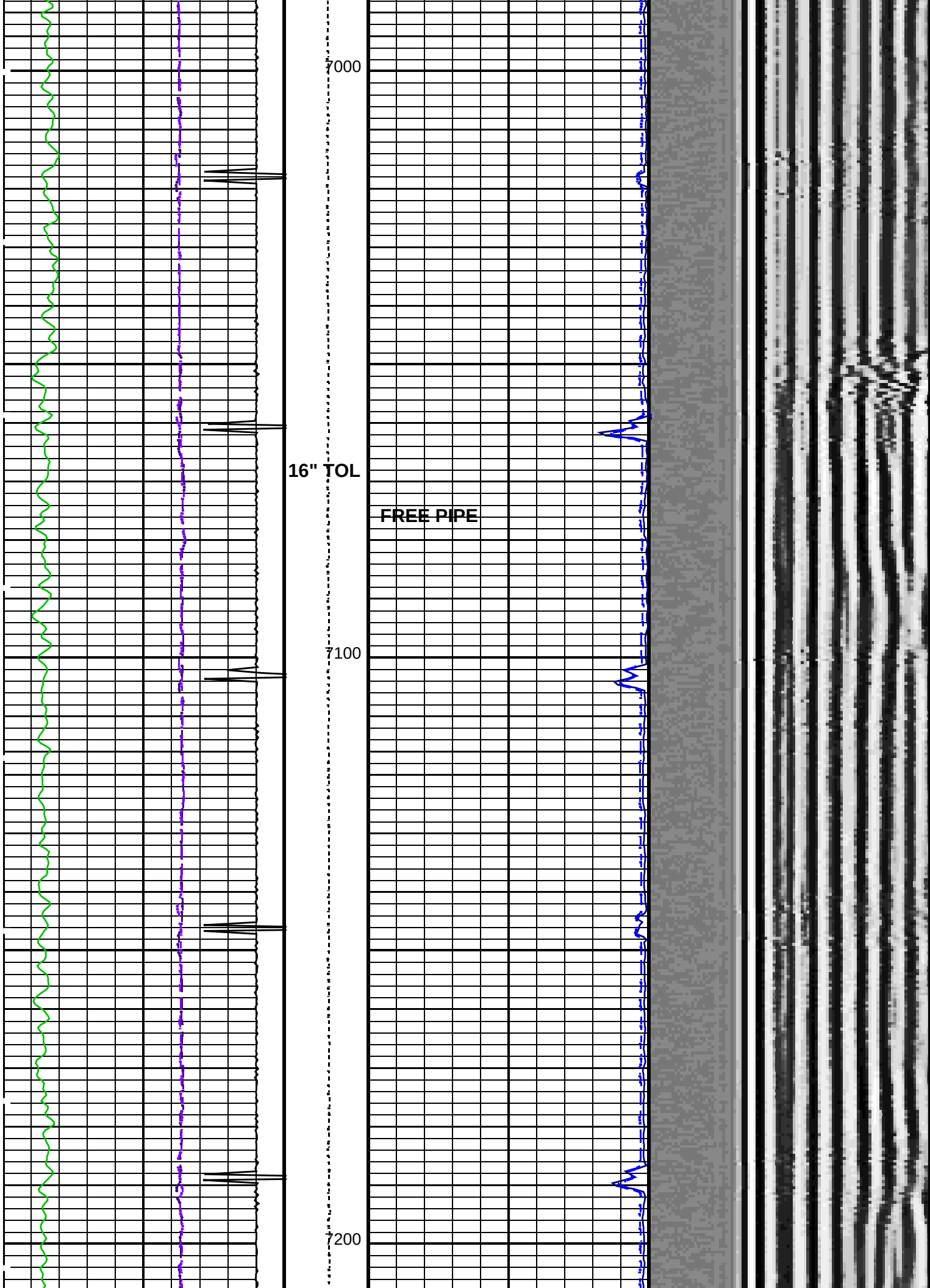
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16" TOL
FREE PIPE
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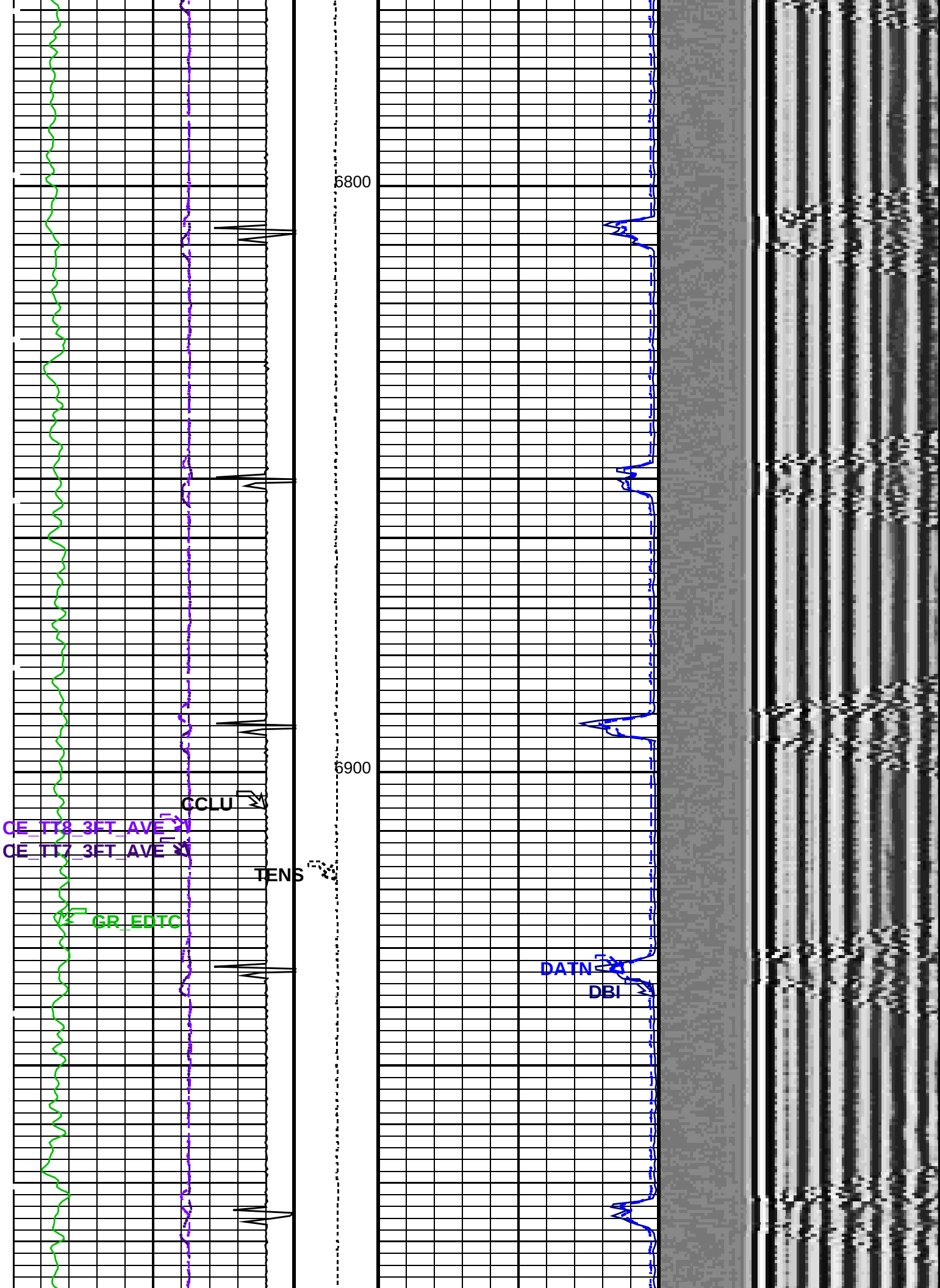
7200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6900
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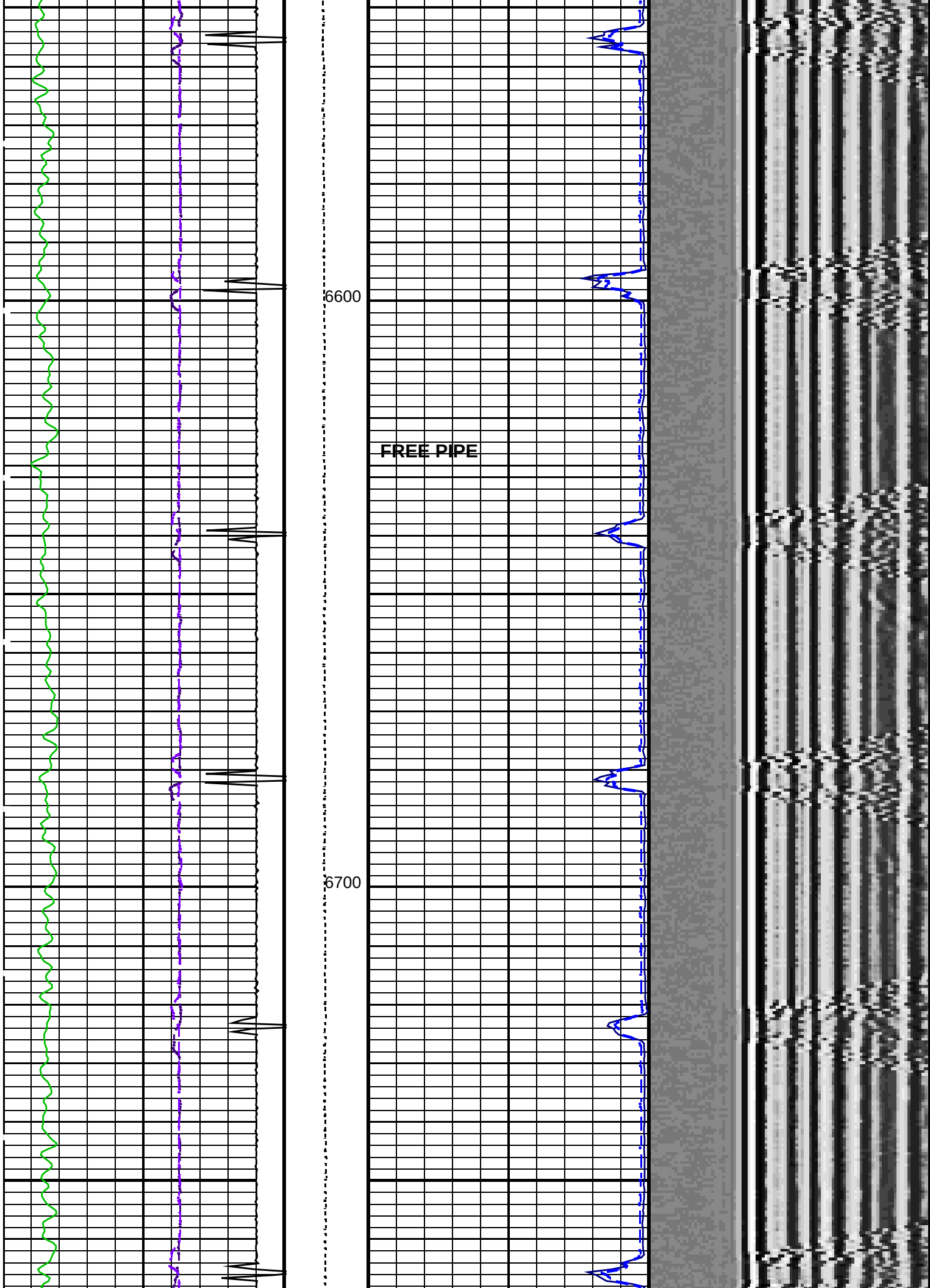
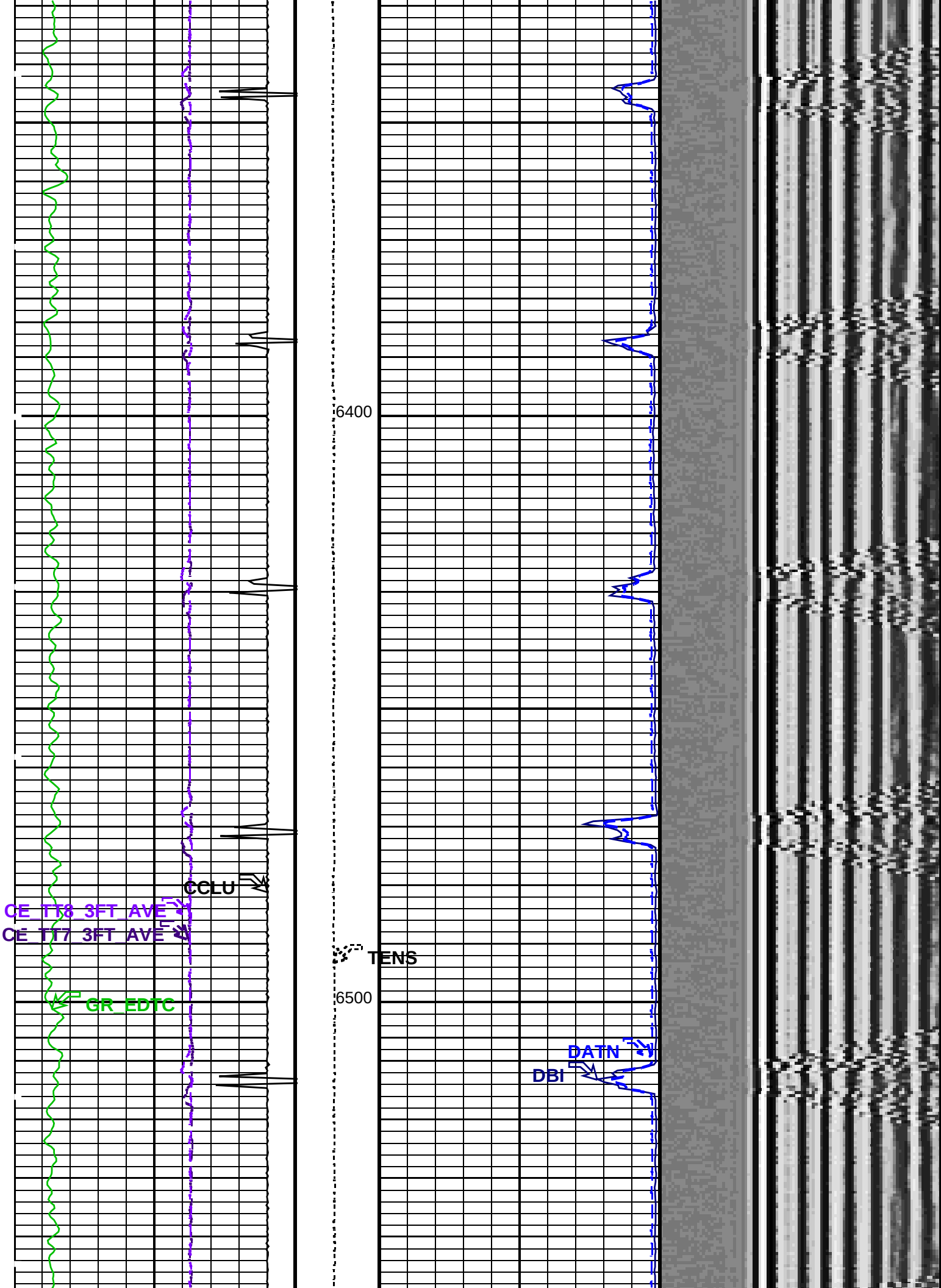
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI


6600
FREE PIPE
6700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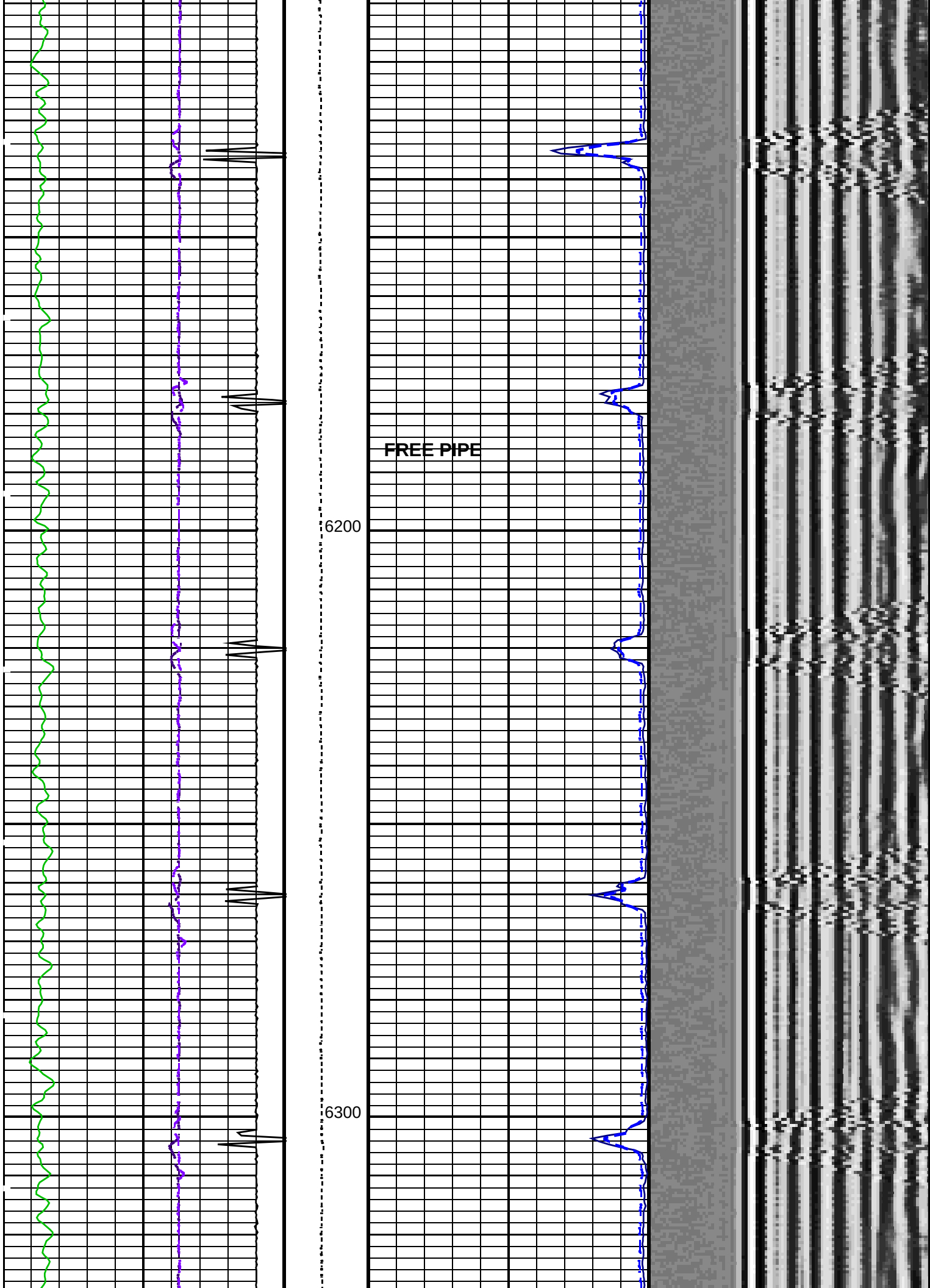
CE_TT7_3FT_AVE
TENS
6500
GR_EDTC
DATN
DBI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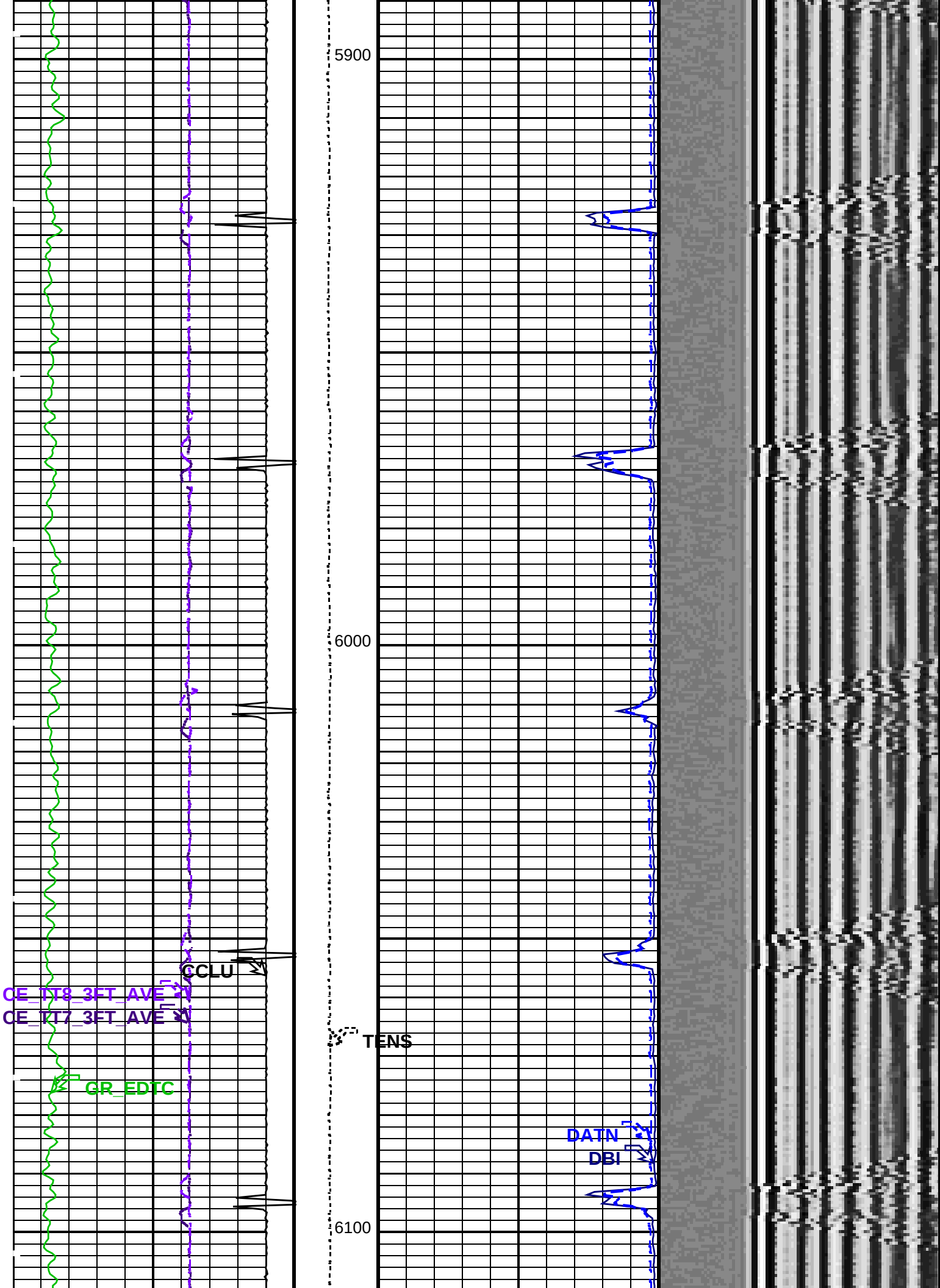
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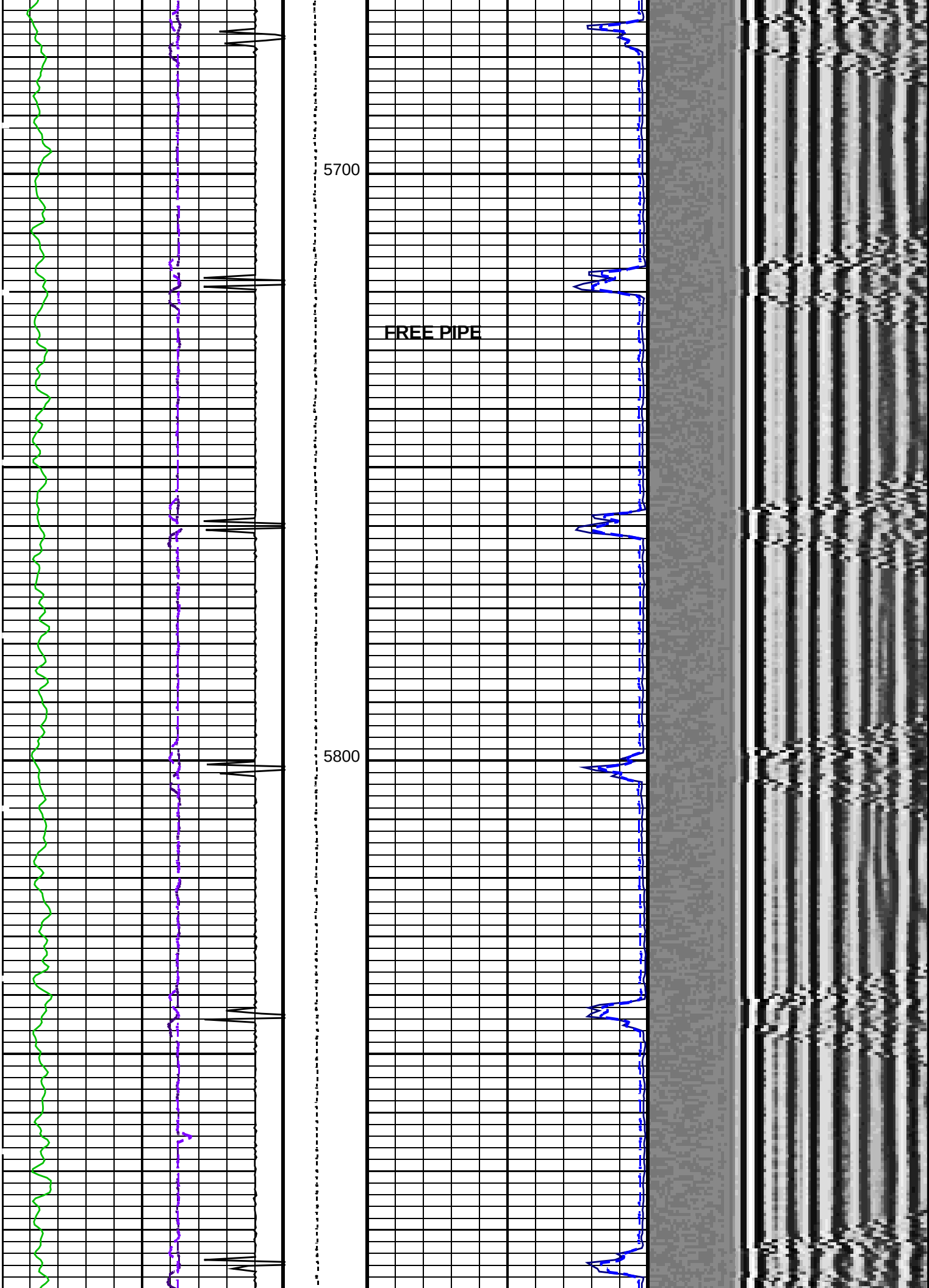
TENS
GR_EDTC
DATN
DBI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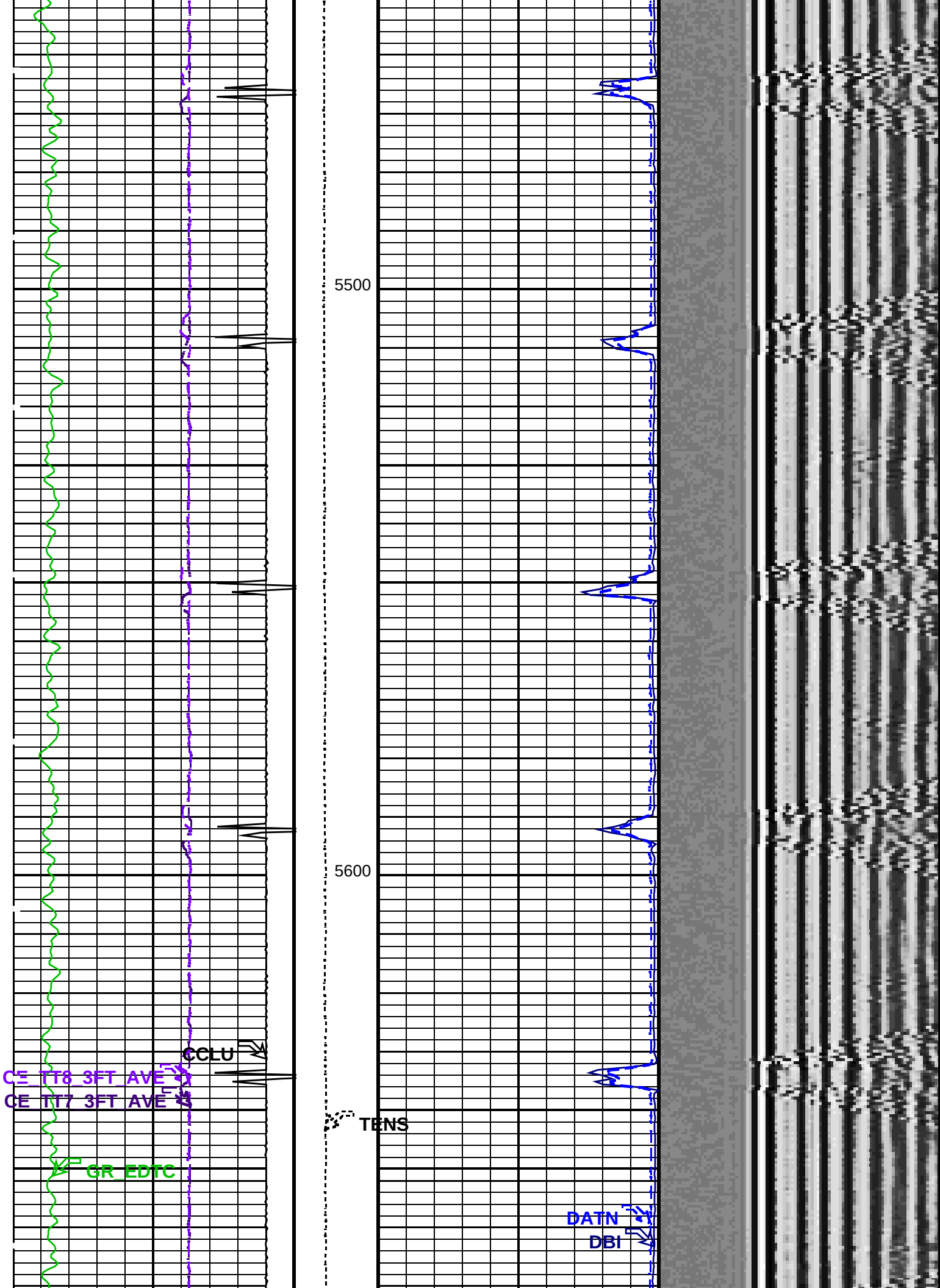
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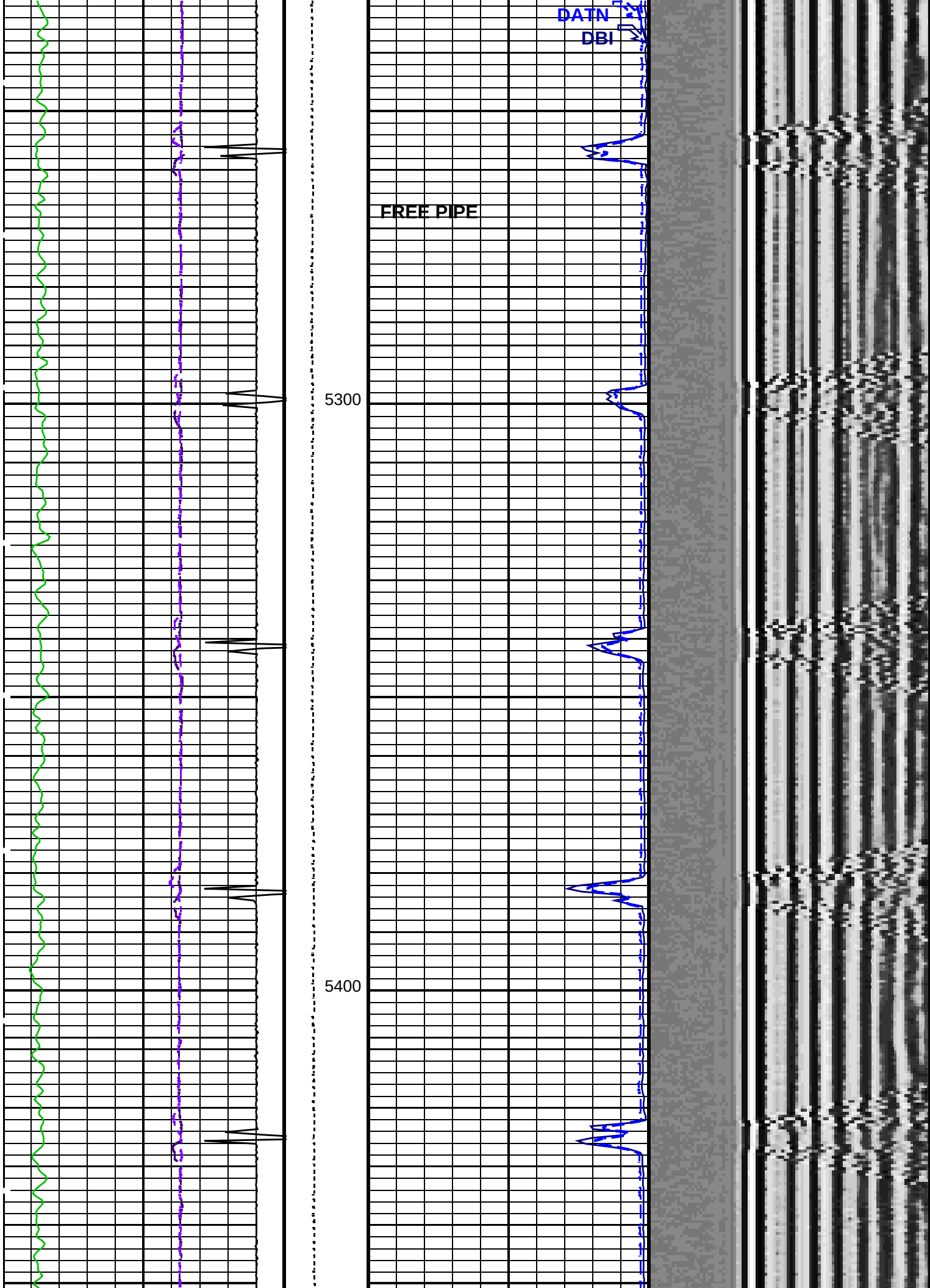
CE_TT7_3FT_AVE
TENS
GR_EDTC
DATN
DBI


DATN
DBI
FREE PIPE
5300
5400

Company: BP Deepwater GoM Nakika Fourier field | Well: OCS G 32306 002 ST00BP0

Input DLIS Files

DEFAULT	USI_IS_MAPC_038LUP	FN:46	PRODUCER	08-Jul-2010 09:08	13401.5 FT	5138.5 FT

Output DLIS Files

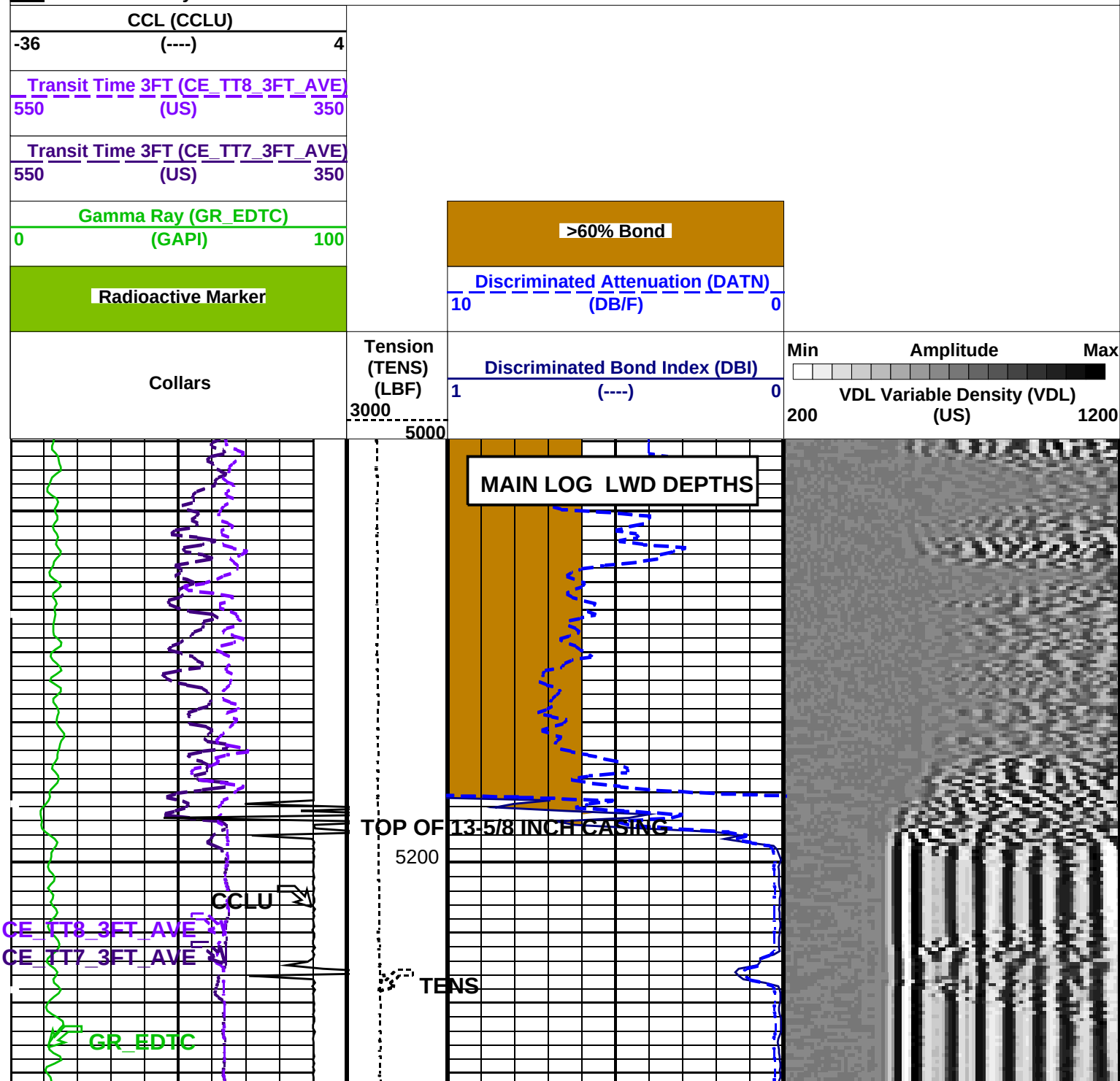
DEFAULT	USI_IS_MAPC_074PUP	FN:3	PRODUCER	09-Jul-2010 10:27	13402.5 FT	5139.5 FT

OP System Version: 17C0-154

USIT-D	SRPC-3971-Q1_2010_OP17_b	CAL-Y	17C0-154
GPIT-F	SRPC-3971-Q1_2010_OP17_b	MAPC-B	SKK-3934-MAST_b
EDTC-B	SKK-3882-EDTCB_b	ECRD	SRPC-3971-Q1_2010_OP17_b

PIP SUMMARY

Time Mark Every 60 S



Schlumberger

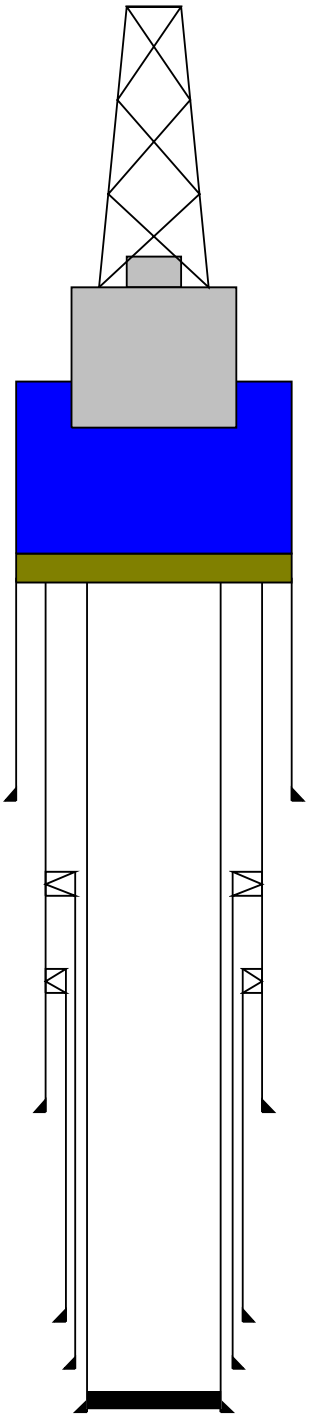
MAIN LOG
LWD DEPTHS

MAXIS Field Log

OD	ID	MD		MD	OD	ID	

Derrick Floor Elevation 84

Mean Sea Level 0

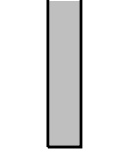


MD	OD	ID	
5213	28		Casing String
5208	22		Casing String
5209	13.625		Casing String, 88.2 lbm/ft
6616	28		Casing Shoe
7068	16		Casing String
7068	22	16	Liner Hanger
7678	18		Casing String, 117 lbm/ft
7678	22	18	Liner Hanger
8577	22		Casing Shoe
9898	18		Casing Shoe
11939	16		Casing Shoe
13522			PBTD, Cement
13778	13.625		Casing Shoe

EDTC-B 59.5

EDTH-B 8267
EDTC-B 8251
EDTG-A/B 8256

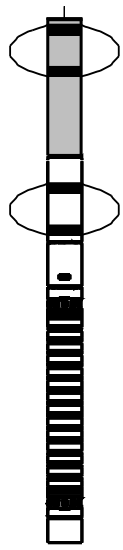
CTEM
Gamma Ray
EFTB DIAG
TelStatus
EDTCB Ele



56.0
54.1
53.0

MAPC-B 53.0

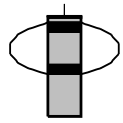
MAPC-BA 8024
ECH-SF 8024
MAMS-BA 8184



MAMS-PS 37.5

GPIT-F 31.9

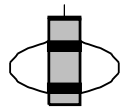
GPIH-C 721
GPIC-F 828



CAL-Y 27.9

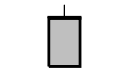
CCL 27.1

CAL-Y 875



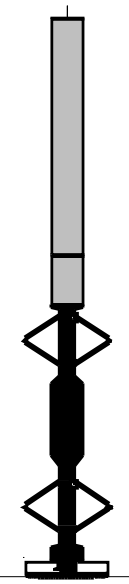
AH-107 24.4

AH-107 1947



USIT-D 22.4

ECH-MRA 5729
USIC-D 1701
AH-107 3758
USIS-A 823
USSC-A 823
3.3RPS-.
USRS-D 791



Control
Normal In
ACCZ
DHRU HV DF
USI Relat
Tension

0.3
0.0
TOOL ZERO

MAXIMUM STRING DIAMETER 12.38 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Client:	BP E& P, Inc.		Drawing Date:
Well:	OCS-G 32306 #2		API #: 608174119000
Field:	Miss Canyon 252	Rig Name:	DD2
State:	LA	Reference Datum:	Mean Sea Level
Country:	US	Elevation:	0.0 ft

Production String	(in)	(ft)	Well Schematic	(ft)	(in)	Casing String

Depth Control Remarks

1. See Remarks
2.
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:	Cement Bond Log	OS1:
OS2:	Variable Density Log	OS2:
OS3:	Customer Instrument	OS3:
OS4:	Gyro	OS4:
OS5:		OS5:

REMARKS: RUN NUMBER 1

Depths tie in with Baker Hughes MWD log recorded from 19-May thru
xx-Jul-2010 across interval from 12800 to 12900 feet.
No other information available on location.
Thermometers read 165, 165 and 165 degrees.
Log run to evaluate casing and cement job in 13-5/8" casing.
Well cemented on 04-Jul-2010, ended at 13:15. Pumped 132 bbls, 700 sks of
Class H cement, 16.4 ppg with yield =1.06. Mix fluid 4.37 gal/sk, with
0.02 gps D-Air, 0.04 gps Halad 344L, 0.015 gps WG-17 and 0.05 gps HR6-L.
24 hour comp strength 2349 psi. Estimated top of good cement at 13060 feet.
Set MSIP acoustic impedance of cement to 6.8, calculated free pipe 43 mv,
min amplitude 5.21 mv, max atten 7.19 db/ft for 60% bond Index.
Used ZMUD values based off Zebra adjusted for free pipe.
LC01=THAV-THMN, metal loss computation is avg thick minus min thick.
Collar locator not detecting collars due to centralization inside large casing.
13.625" 88.2# casing with 12.375" ID and 0.625" thickness.
Tool string run as shown in tool sketch.

RUN 1			RUN 2		
SERVICE ORDER #:		BFHO-00002	SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	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

LEH-QT 62.7
LEH-QT 2082

ECRD MDSB_EDTC 59.5 59.5
EDTC-B Mud Tempe

	Run 1	Run 2	Run 3	Run 4
PVT DATA				
Oil Density				
Water Salinity				
Gas Gravity				
Bo				
Bw				
1/Bg				
Bubble Point Pressure				
Bubble Point Temperature				
Solution GOR				
Maximum Deviation	35 deg			
CEMENTING DATA				
Primary/Squeeze	Primary			
Casing String No				
Lead Cement Type	See remarks			
Volume				
Density				
Water Loss				
Additives				
Tail Cement Type				
Volume				
Density				
Water Loss				
Additives				
Expected Cement Top				
Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Fluid Type				
Salinity				
Density				
Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size				
From				
To				
Casing/Tubing Size				
Weight				
Grade				
From				
To				
Maximum Recorded Temperatures				
Logger On Bottom / Time				
Unit Number / Location				
Recorded By				
Witnessed By				

DEPTH SUMMARY LISTING

Date Created: 5-JUL-2010 12:53:16

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-46P XS
Serial Number:	5044	Serial Number:	9803	Serial Number:	1263
Calibration Date:	25-Jan-2010	Calibration Date:	18-May-2010	Length:	23000 FT
Calibration Cable Type:	7-46P XS	Number of Calibration Points:	10	Conveyance Method:	Wireline
Wheel Correction 1:	-5	Calibration RMS:	17	Rig Type:	Offshore Floater without WMC
Wheel Correction 2:	-5	Calibration Peak Error:	27		

Depth Control Parameters

Log Sequence: Subsequent Log In the Well

Schlumberger

Company: **BP Exploration & Production, Inc.**

Well: **OCS-G 32306 002 ST00BP00**
Field: **Mississippi Canyon 252**
County: **Offshore** State: **Louisiana**

County: Offshore
Field: Mississippi Canyon 252
Location:
Well: OCS-G 32306 002 ST00BP00
Company: BP Exploration & Production, In

Cement Bond Log/Variable Density Log with USI/MSIP/Gamma Ray 13-5/8" 88.2# Casing

LOCATION

		Elev.: K.B.	
		G.L.	-5132.00 ft
		D.F.	84.00 ft
Permanent Datum:	Mean Sea Level	Elev.:	0.00 ft
Log Measured From:	Drill Floor	84.00 ft	above Perm. Datum
Drilling Measured From:	Same		

API Serial No.	Latitude:	Longitude:	Rig:
60-81741190-00	28 43' 53.338" N	88 22' 17.927" W	DDII

Logging Date		6-Jul-2010					
Run Number		Two					
Depth Driller		13522 ft					
Schlumberger Depth		13405 ft					
Bottom Log Interval		13401 ft					
Top Log Interval		5195 ft					
Casing Fluid Type		SOBM					
Salinity							
Density		12.7 lbm/gal					
Fluid Level							
BIT/CASING/TUBING STRING							
Bit Size		14.750 in					
From		12038 ft					
To		13871 ft					
Casing/Tubing Size		13.625 in					
Weight		88.2 lbm/ft					
Grade		Q-125					
From		5209 ft					
To		13778 ft					
Maximum Recorded Temperatures		165 degF	165	165			
Logger On Bottom	Time	6-Jul-2010		07:30			
Unit Number	Location	2078	HMOS				
Recorded By		Tarantola					
Witnessed By		Bullock, Breazeale, Speyrer					