

Company: North East Natural Energy LLC

Well: Boguess 17H

Field: Wildcat

County: Monongalia State: West Virginia

SONIC SCANNER
BOREHOLE COMPENSATED SONIC
GAMMA RAY / CALIPER

County: Monongalia	Lat and Long:		Elev.:	K.B.	1293.00 ft
Field: Wildcat	39:40:12.6 N			G.L.	1268.00 ft
Location: Lat and Long:	80:5:35.8 W			D.F.	1293.00 ft
Well: Boguess 17H	Permanent Datum:	Ground Level	Elev.:	1268.00 f	
Company: North East Natural Energy LLC	Log Measured From:	Kelly Bushing	25.00 ft	above Perm.Datum	
	Drilling Measured From:	Kelly Bushing			
	API Serial No.	District	Township:	Quad	
	47-061-01812-00-00	Clay	Core	Blacksville	

Logging Date	16-Apr-2019		
Run Number	1D		
Depth Driller	8400.00 ft		
Schlumberger Depth	8400.00 ft		
Bottom Log Interval	8400.00 ft		
Top Log Interval	2543.00 ft		
Casing Driller Size @ Depth	9.625 in @ 2538.00 ft		
Casing Schlumberger	2543 ft		
Bit Size	8.5 in		
Type Fluid In Hole	Water		
Density	9.5 lbm/gal		
Fluid Loss	PH		
MUD			
Source of Sample	Active Tank		
RM @ Meas Temp	0.04 ohm.m @ 103 degF		
RMF @ Meas Temp	0.03 ohm.m @ 103 degF		
RMC @ Meas Temp	0.04 ohm.m @ 102 degF		
Source RMF	Calculated	Calculated	
RM @ BHT	0.03 @ 158	0.02 @ 158	
Max Recorded Temperatures	158 degF		
Circulation Stopped	14-Apr-2019	22:00:00	
Logger on Bottom	16-Apr-2019	23:55:00	
Unit Number	3703	Bradford, PA	
Recorded By	Elizabeth Morrone		
Witnessed By	BJ Varney		

Disclaimer

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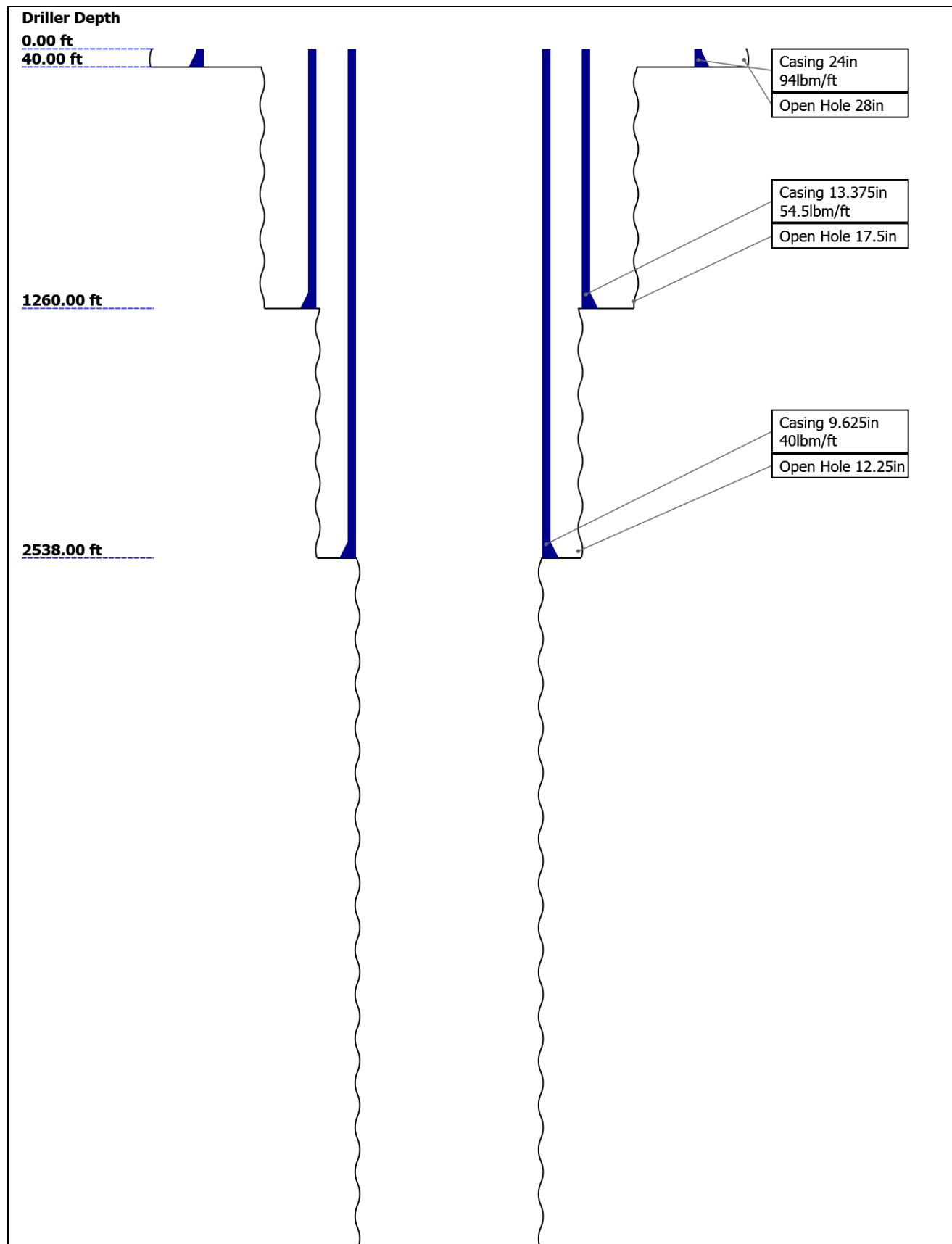
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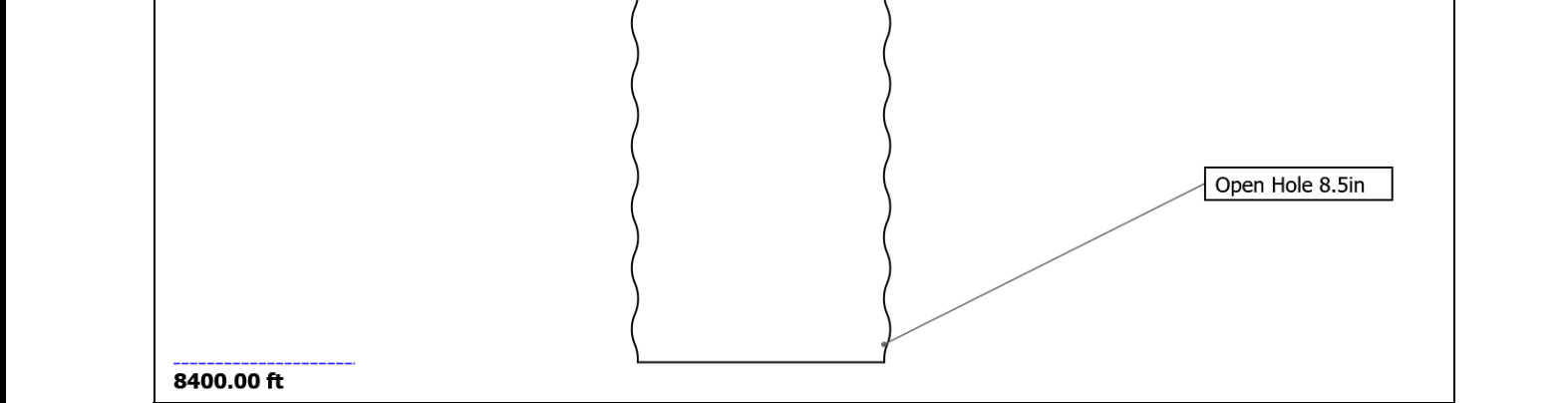
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Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	28	17.5	12.25	8.5		
Top Driller (ft)	0	40	1260	2538		
Top Logger (ft)	0	40	1260	2538		
Bottom Driller (ft)	40	1260	2538	8400		
Bottom Logger (ft)	40	1260	2538	8400		
Casing						
Size (in)	24	13.375	9.625			
Weight (lbm/ft)	94	54.5	40			
Inner Diameter (in)	23.272	12.615	8.835			
Grade	N/A	N/A	N/A			
Top Driller (ft)	0	0	0			
Top Logger (ft)	0	0	0			
Bottom Driller (ft)	40	1260	2538			
Bottom Logger (ft)	40	1260	2543			

Remarks and Equipment Summary

1D: Toolstring				1D: Remarks	
Equip name LEH-MT LEH-MT Length 85.73 MP name MP Offset		Mud Temperature 83.79		Thank you for choosing Schlumberger!	
				Crew: Morrone, Kornacki, Shirley	
				Tool ran per tool sketch	
SAH-F 82.58					
EDTC-B:9231 EDTH-B:9291 EDTG-B:79427 EDTC-B:9231		CTEM 74.22 ACCZ 0.00 HV 0.00 Gamma Ray 72.35 TelStatus 71.22			
PPC-B:8054 PPC-B:8054		PPC-B Cali 70.08			

pers

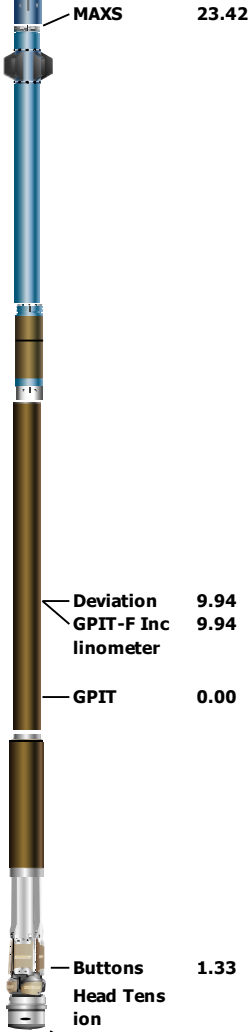


MAST-B:857 64.71

- 4
- ECH-SF:8015
- MAPC-BA:825
- 7
- MAMS-CA:857
- 4
- MASS-BA:838
- 1
- MAXS-BA:835
- 5

MAMS 49.27

FBST-E:794 **23.42**
ECH-MJA:386
9
FBPC-A:785
AH-287:796
FBSH-D:785
FBAC-B:751
DHRU-F:917
FBSS-B:794



Lengths are in ft
Maximum Outer Diameter = 5.000 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

1D

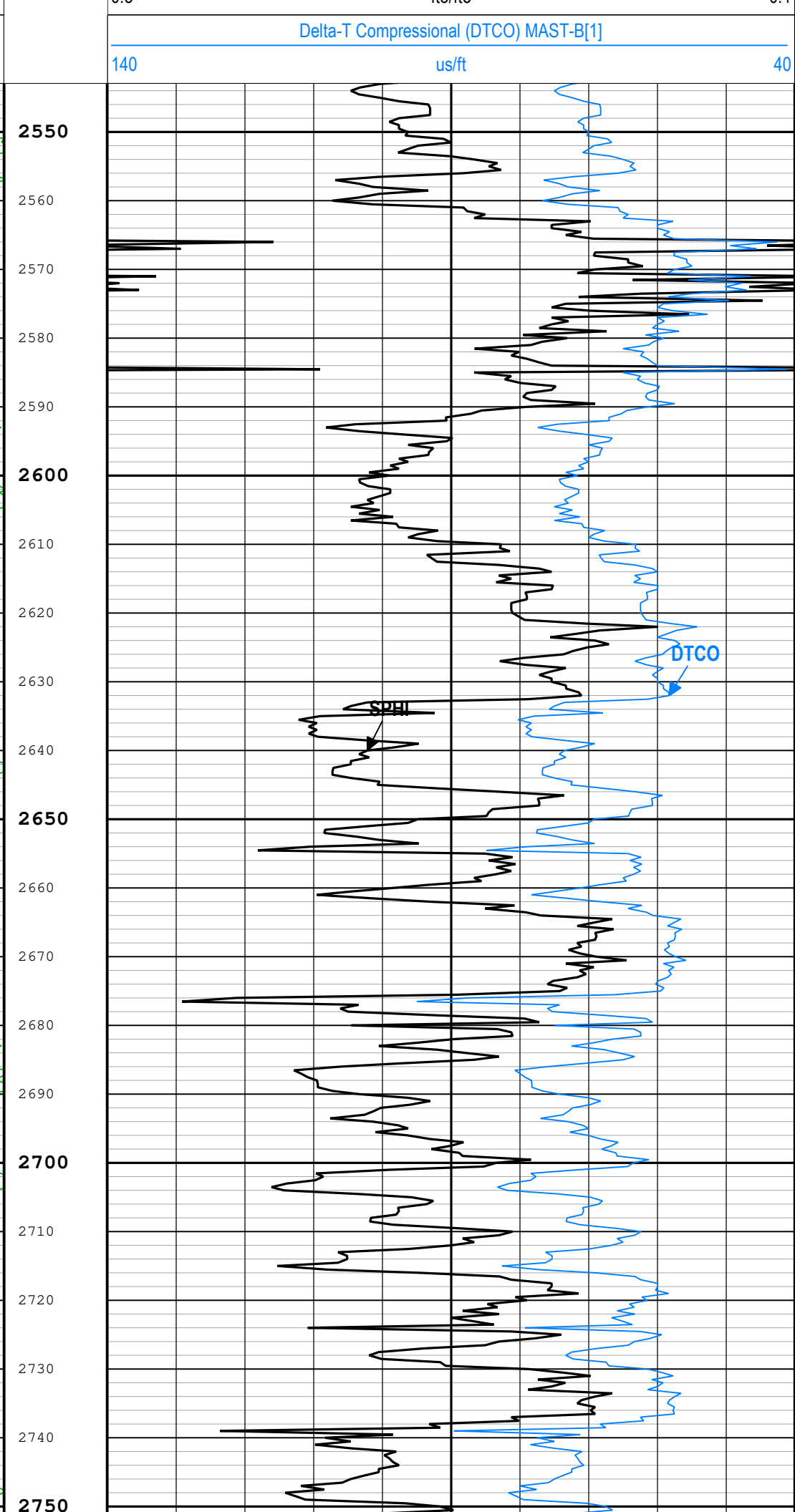
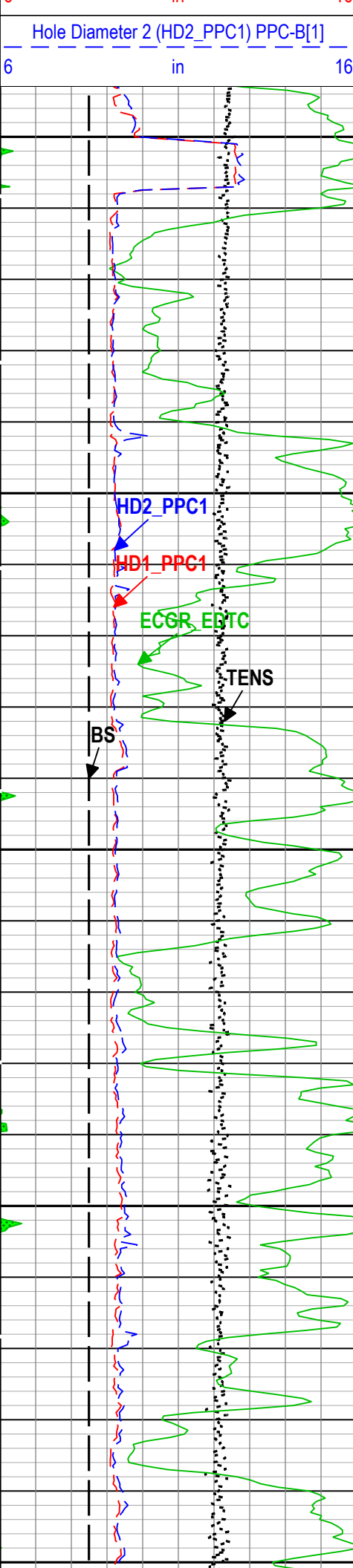
Depth Measuring Device

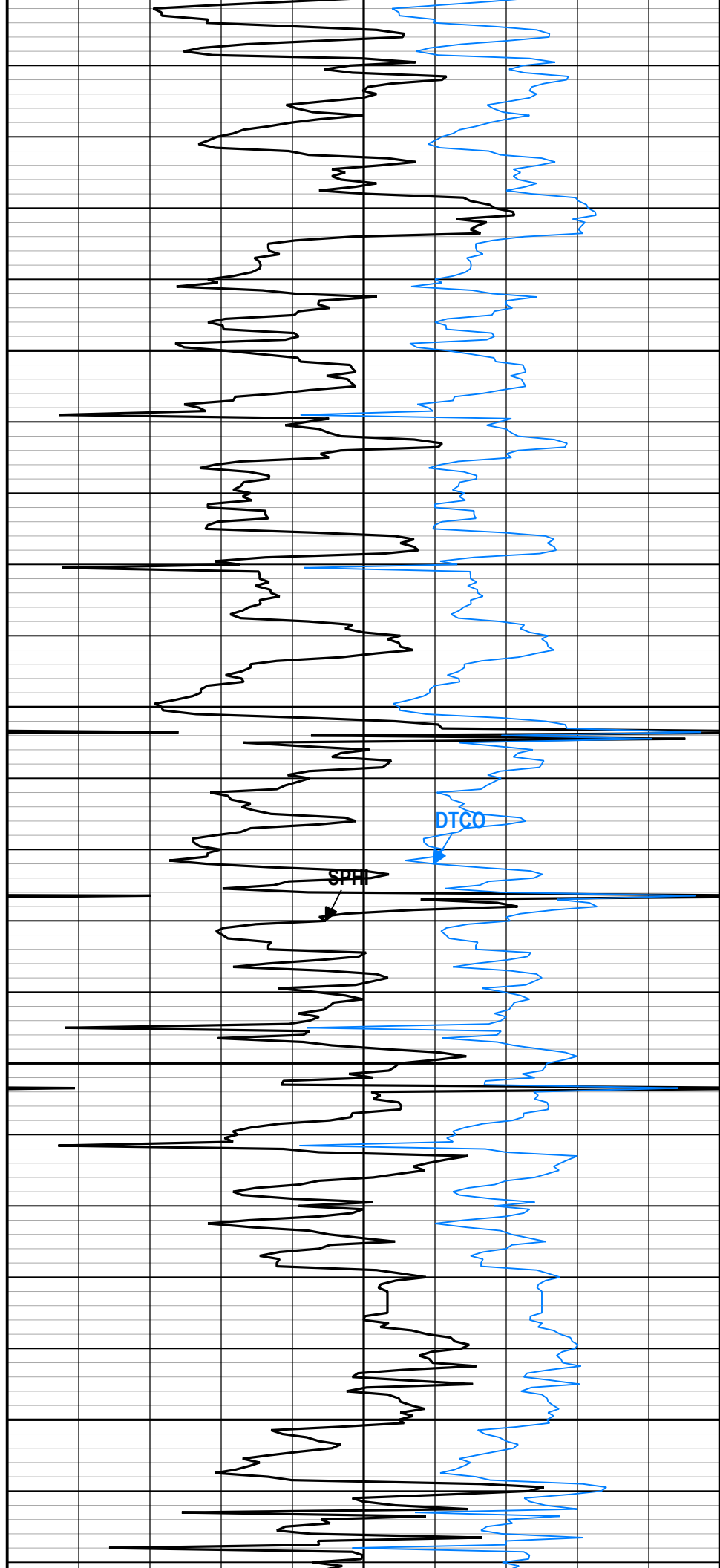
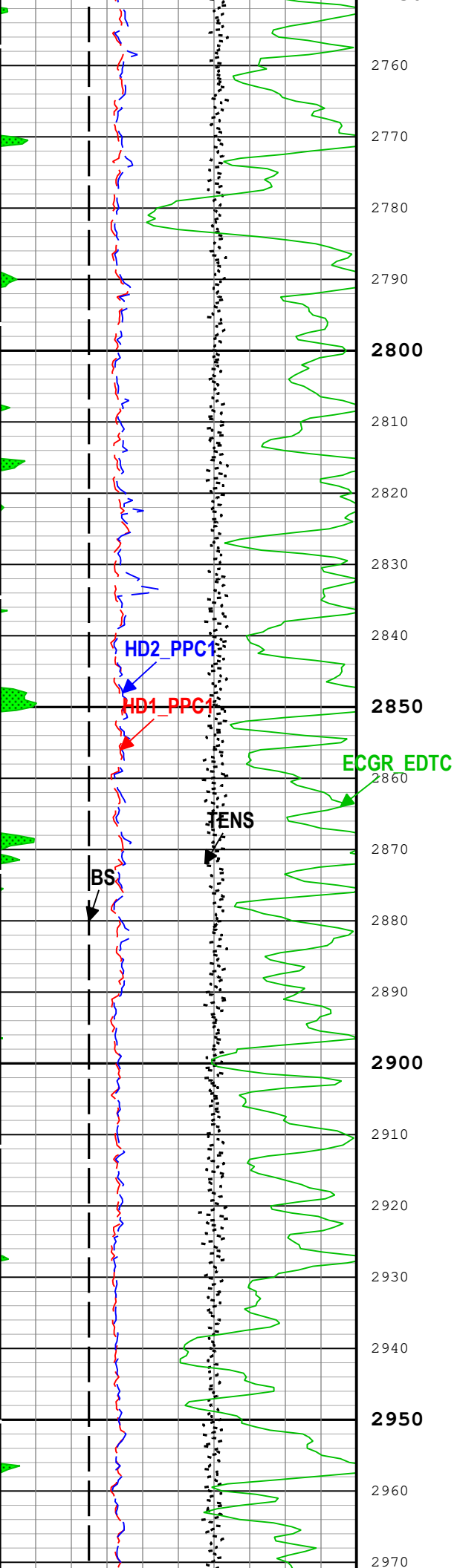
Type	IDW-JA
Serial Number	7173
Calibration Date	20-Mar-2018
Calibrator Serial Number	IDWC-C-57
Calibration Cable Type	7-46 A-XS
Wheel Correction 1	-5
Wheel Correction 2	-3

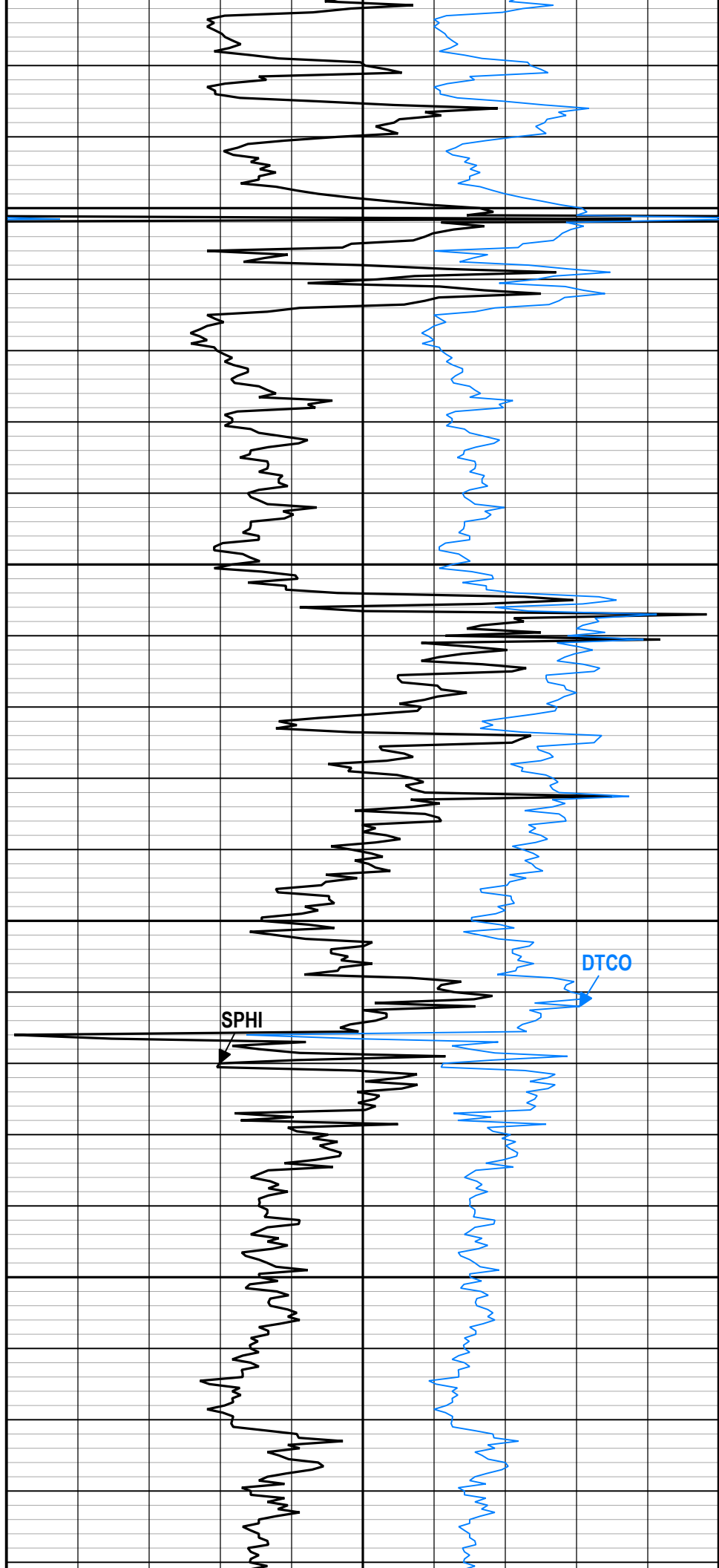
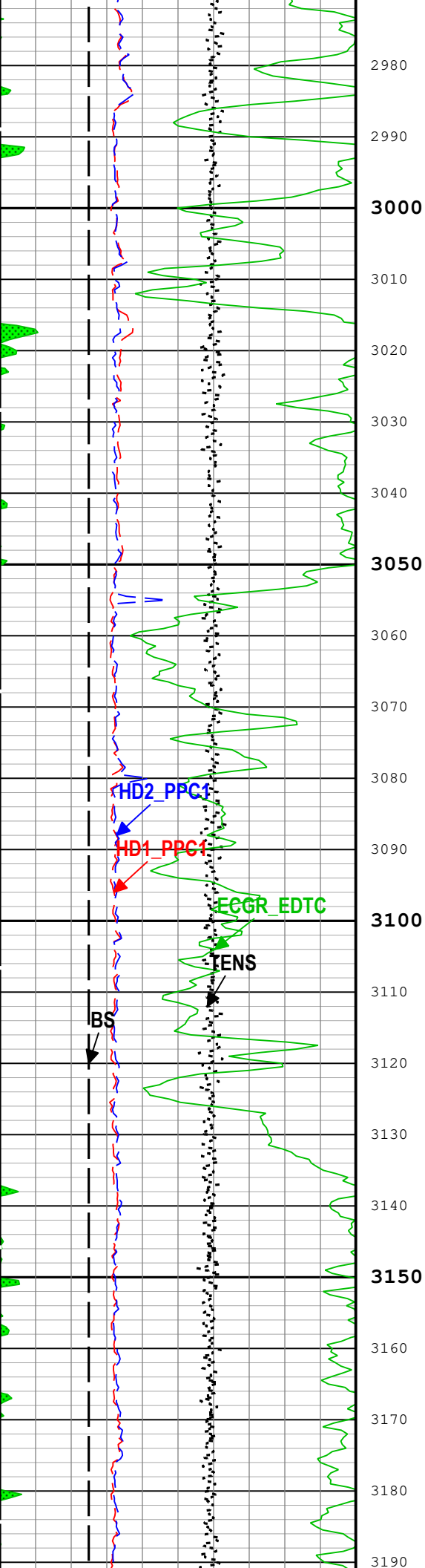
Tension Device

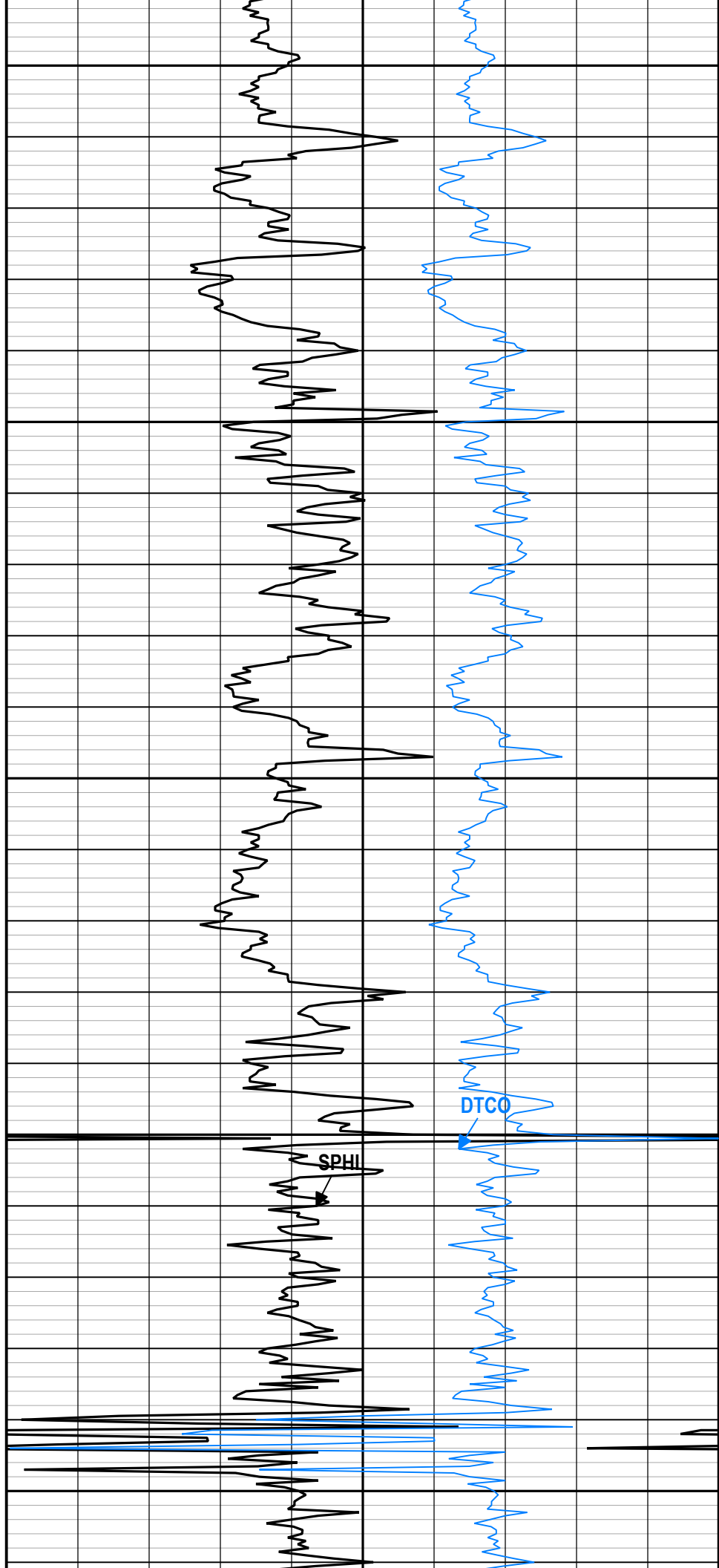
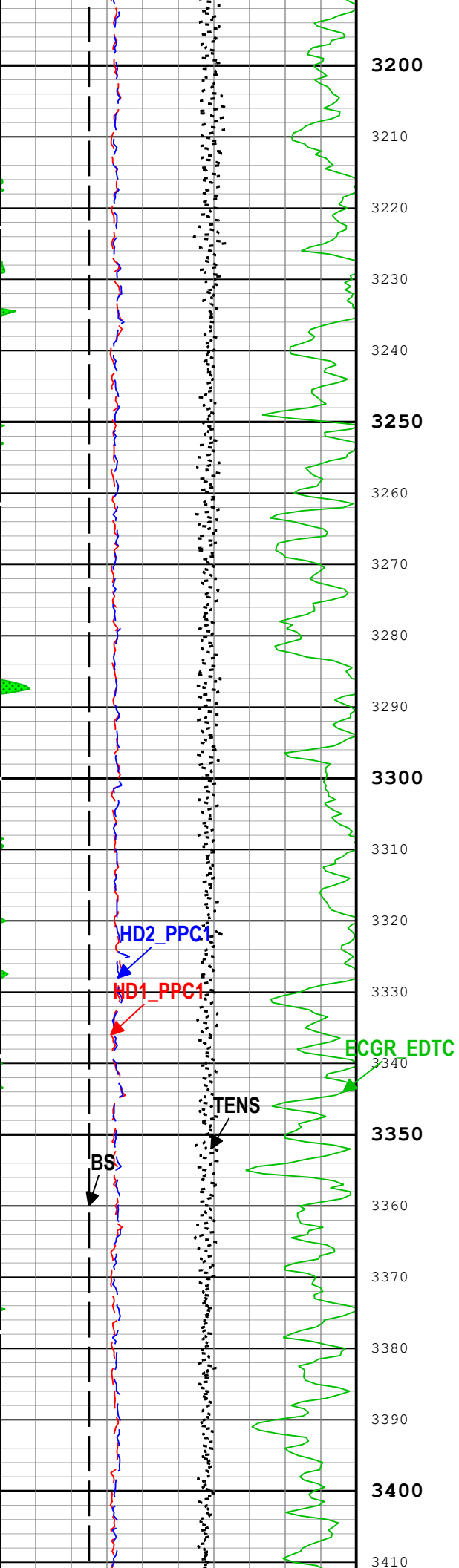
Type	CMTD-B/A
Serial Number	5054
Calibration Date	09-Jan-2019
Calibrator Serial Number	232970A

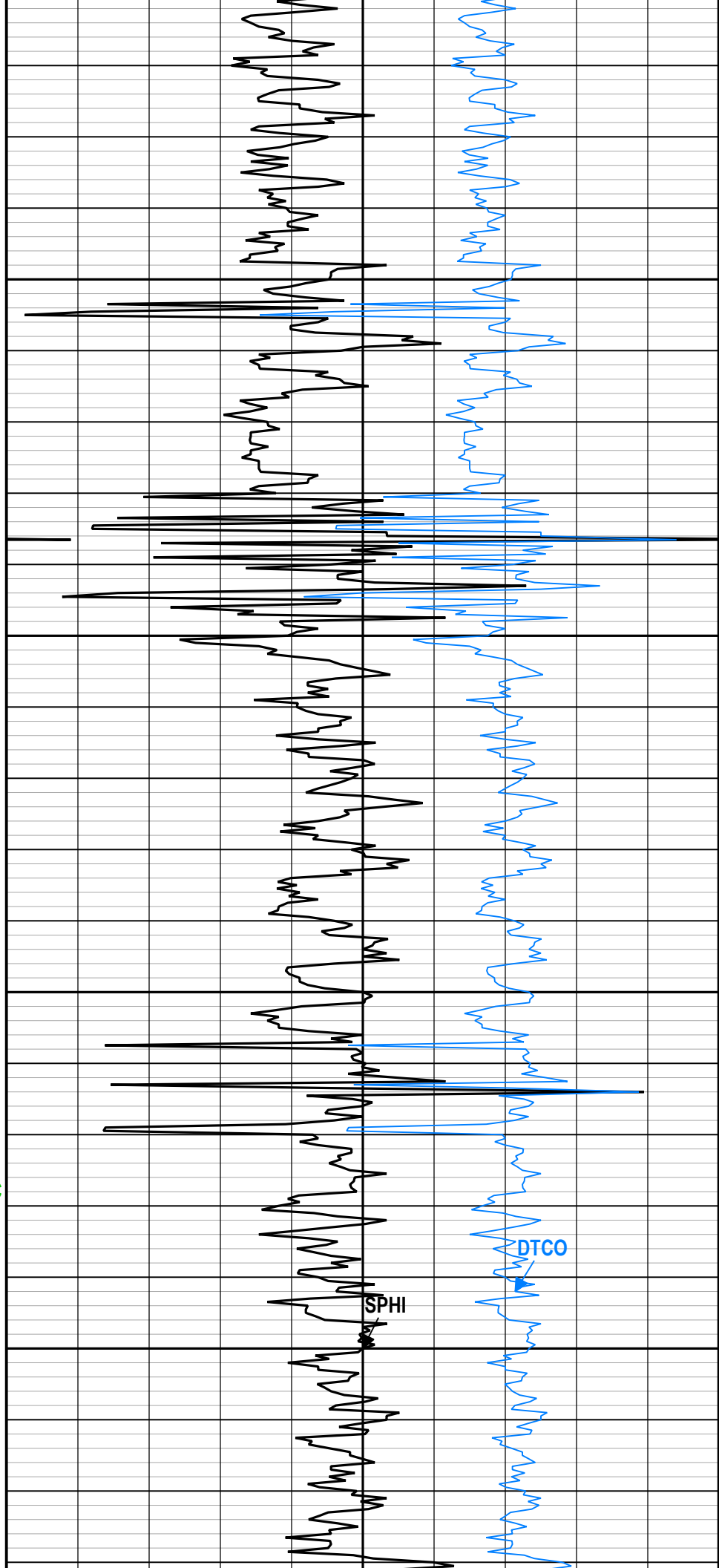
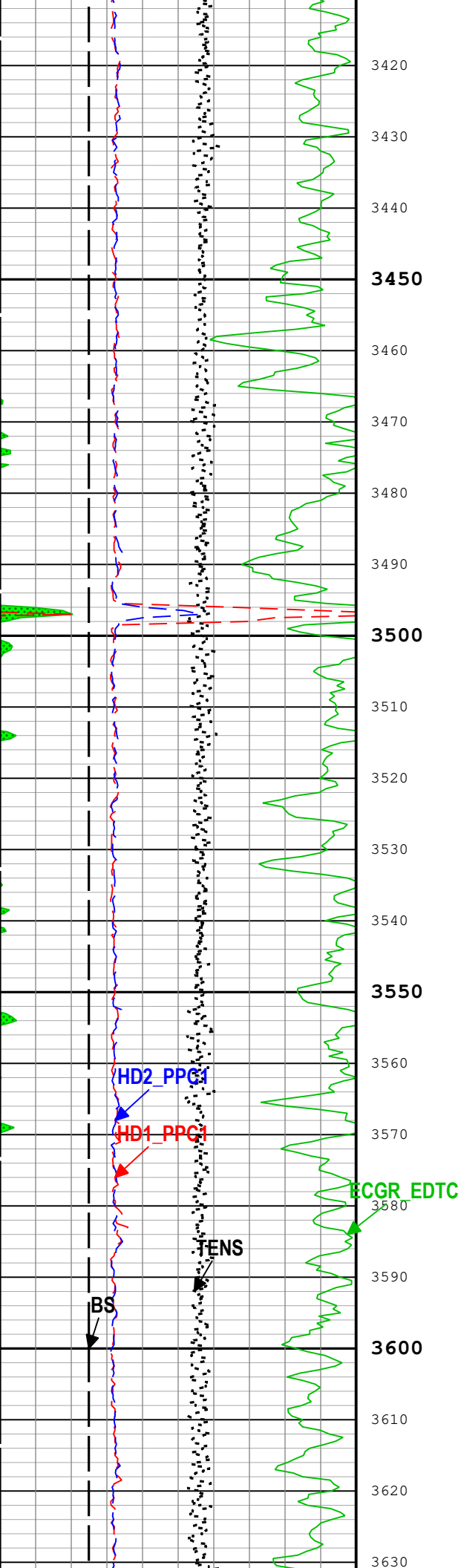
Sonic Porosity (SPH) MAST-B[1]		
0.3	ft3/ft3	-0.3

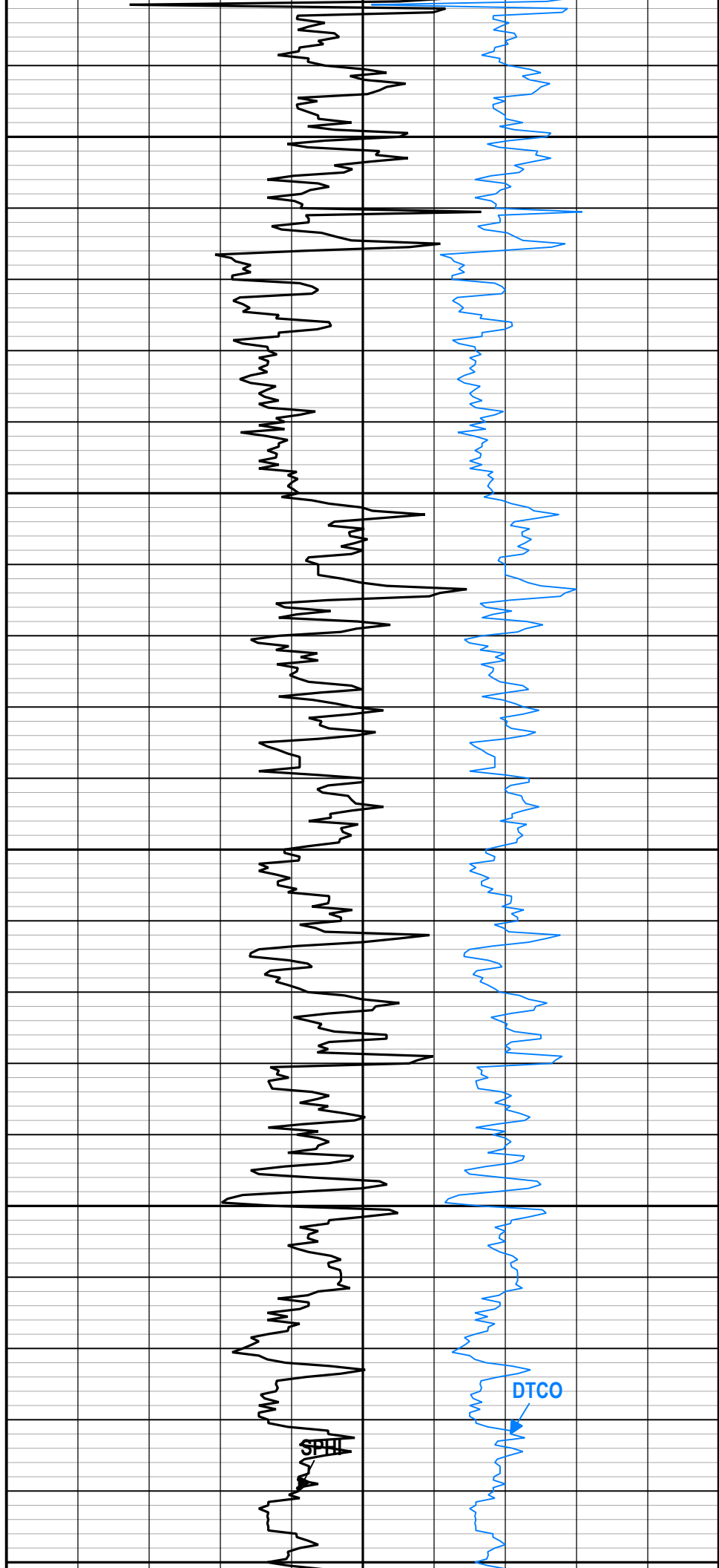
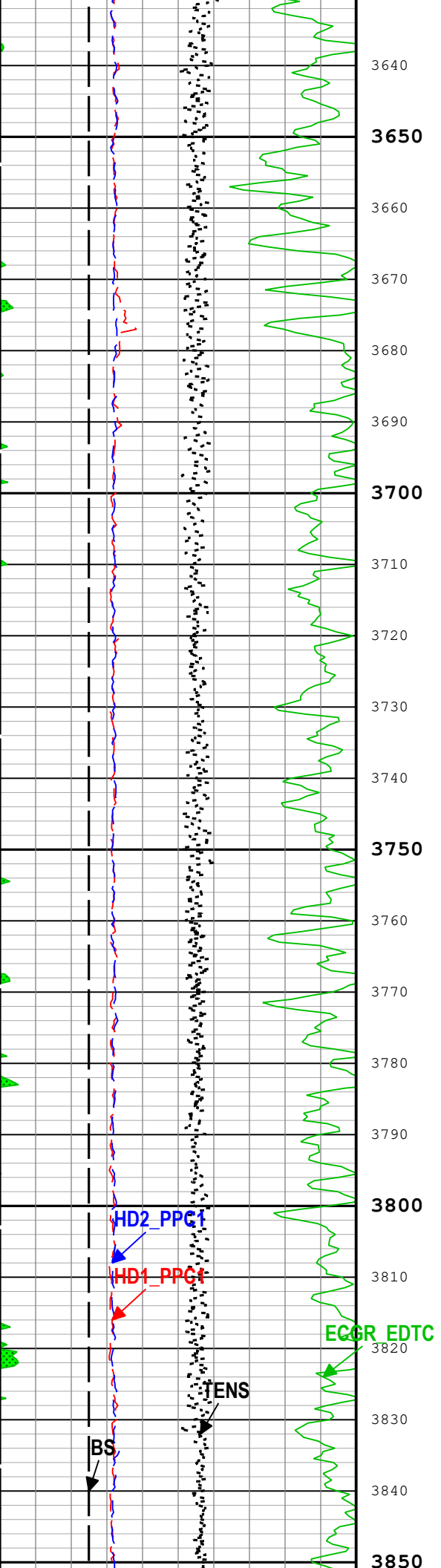


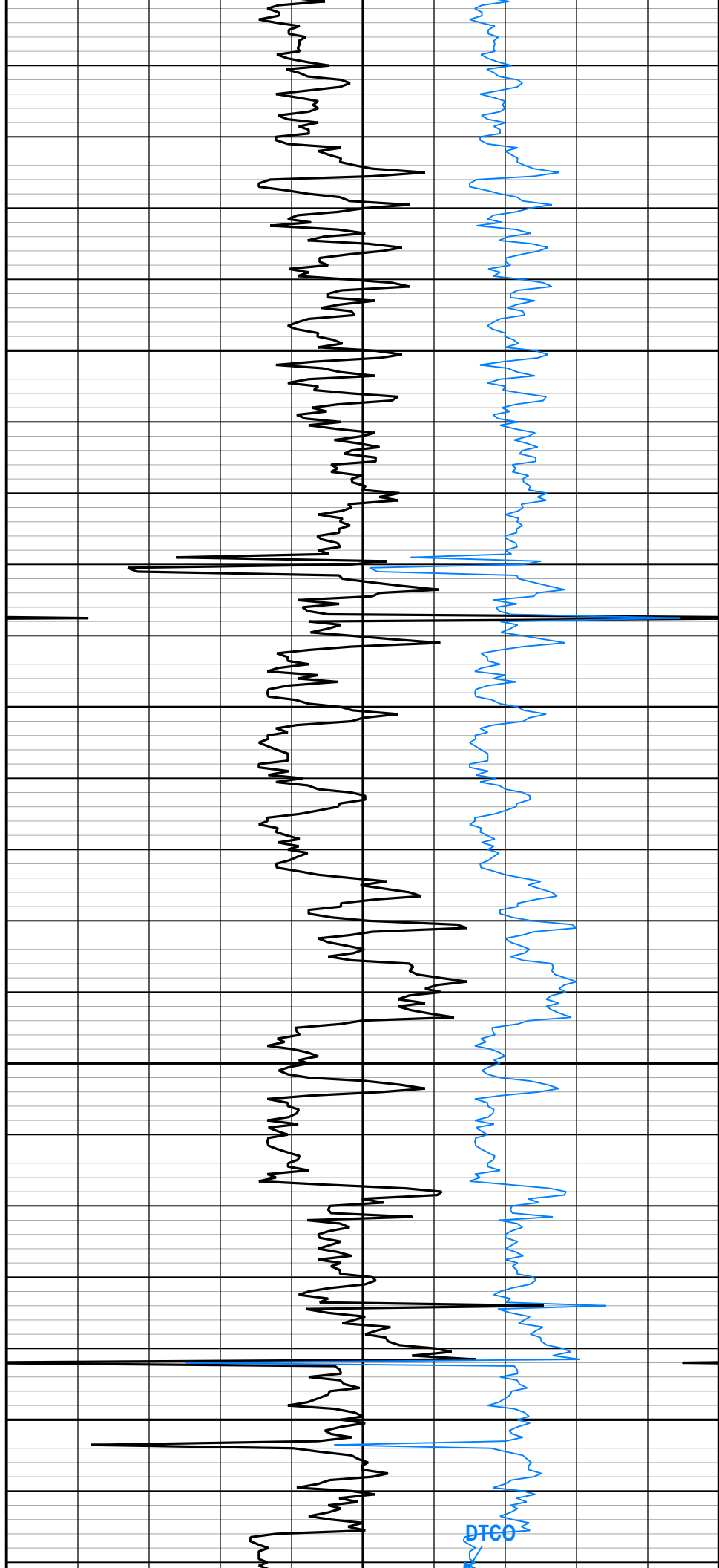
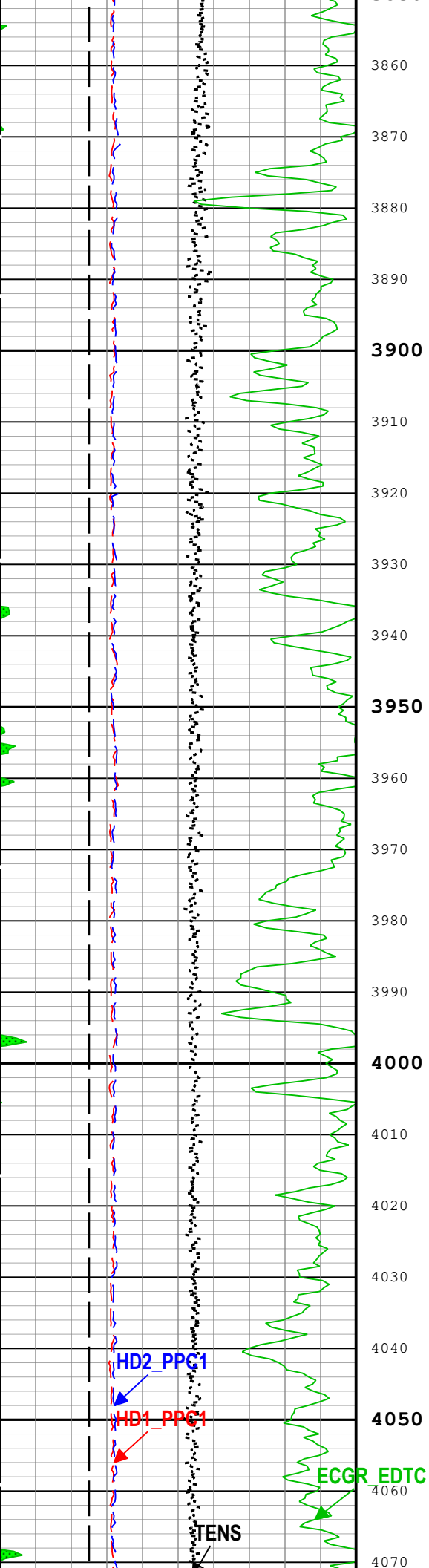


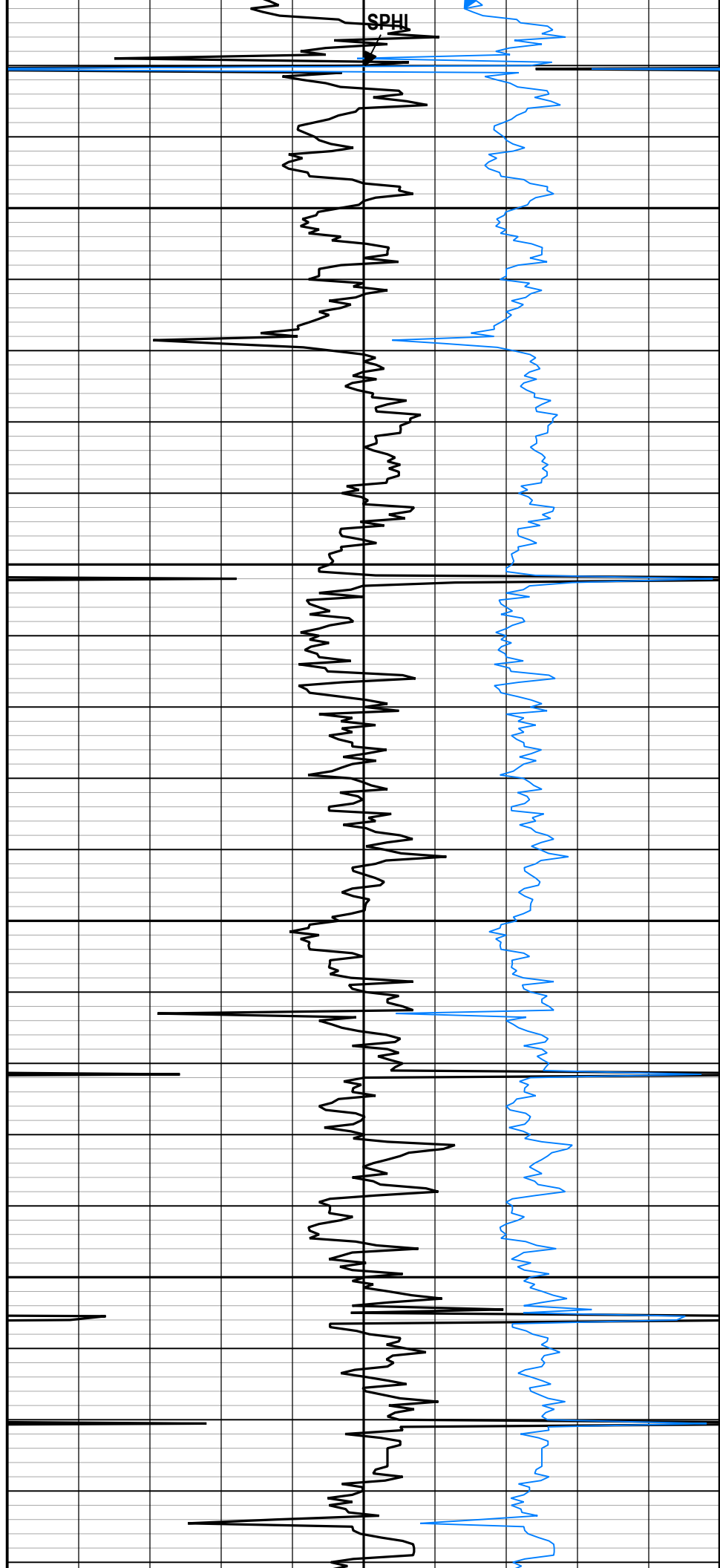
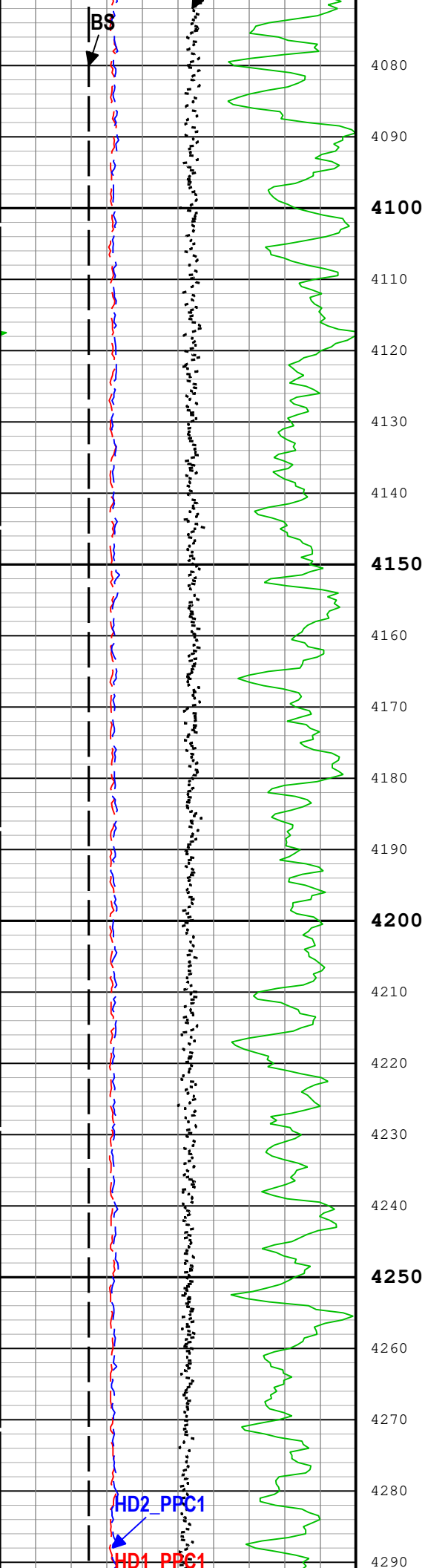


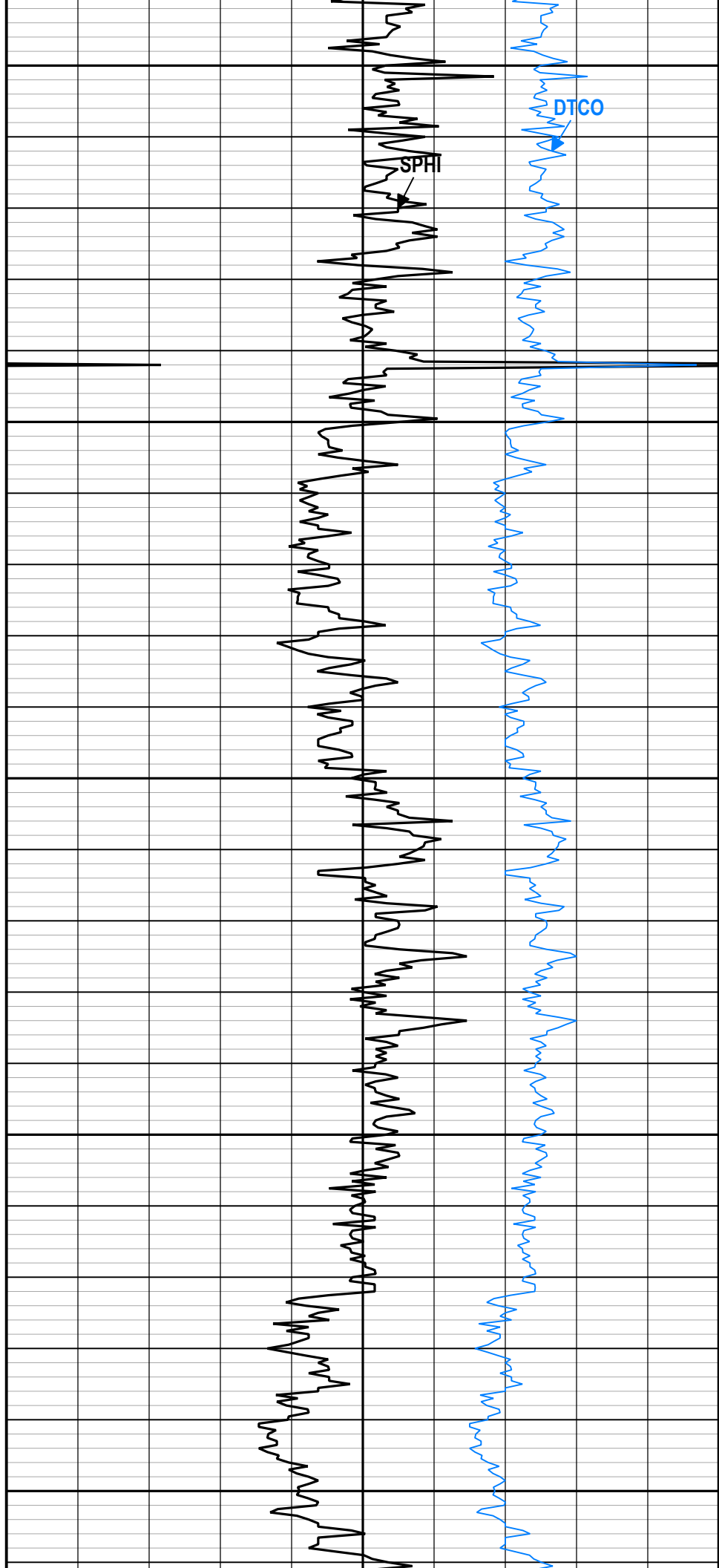
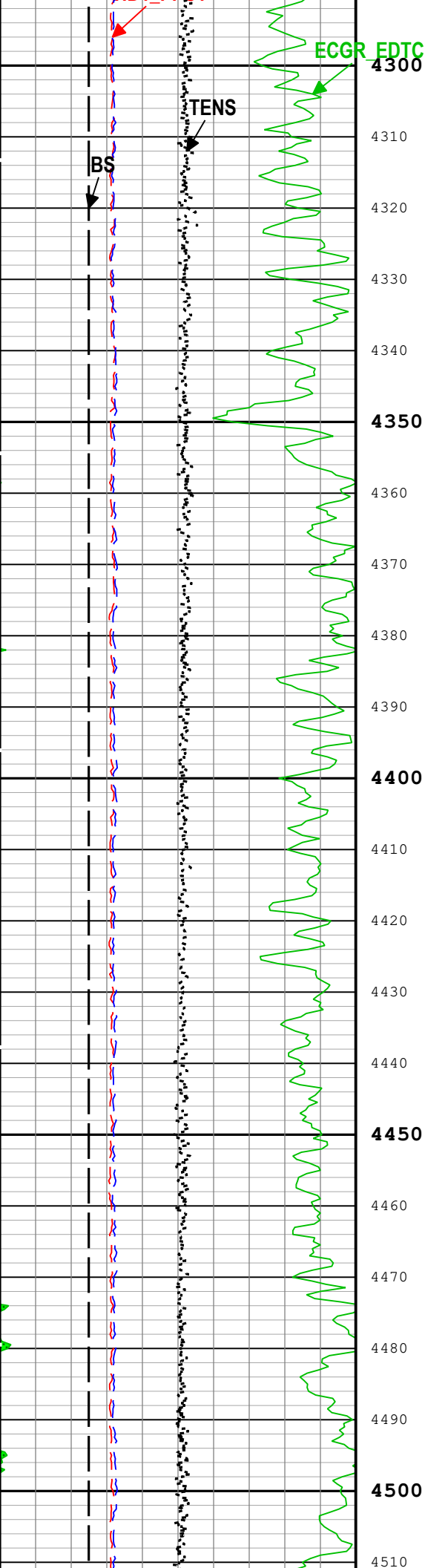


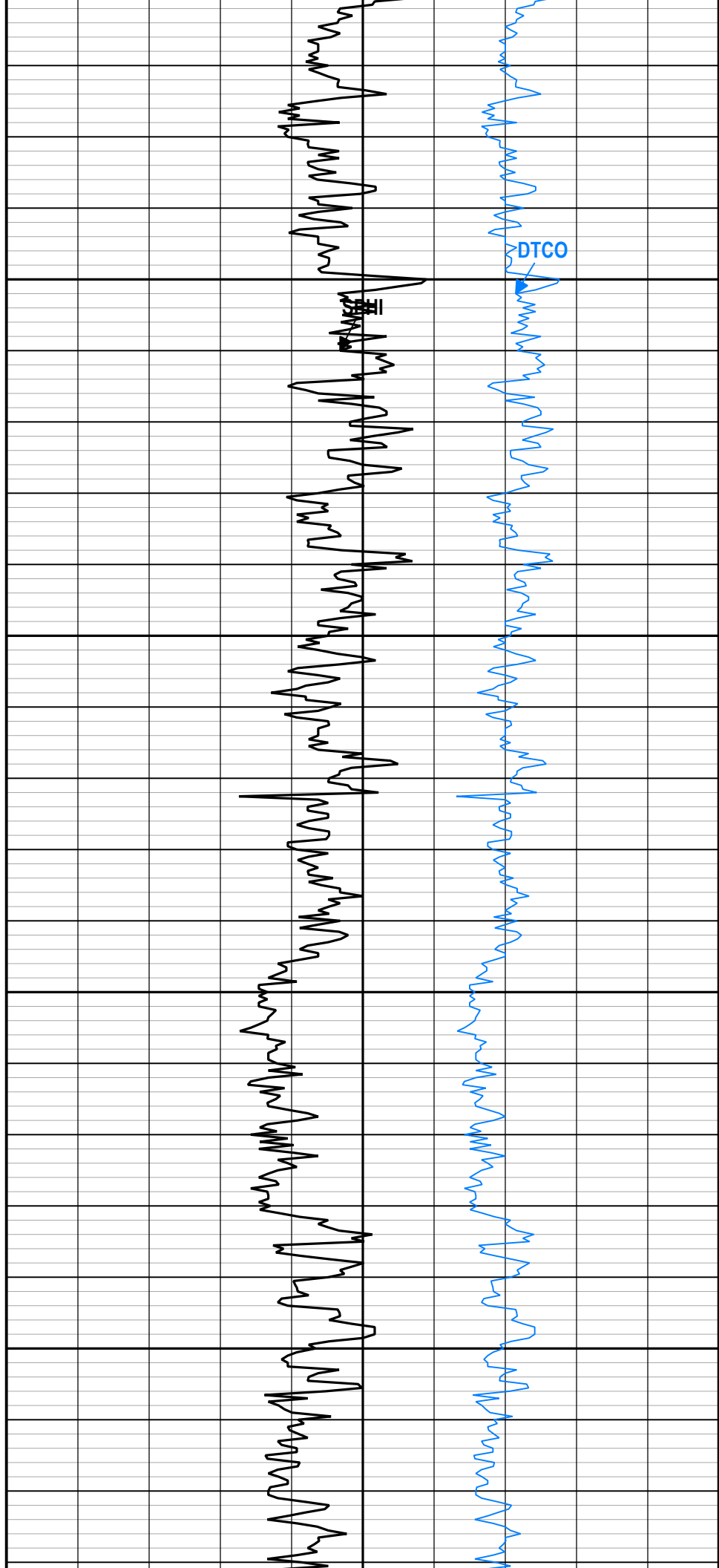
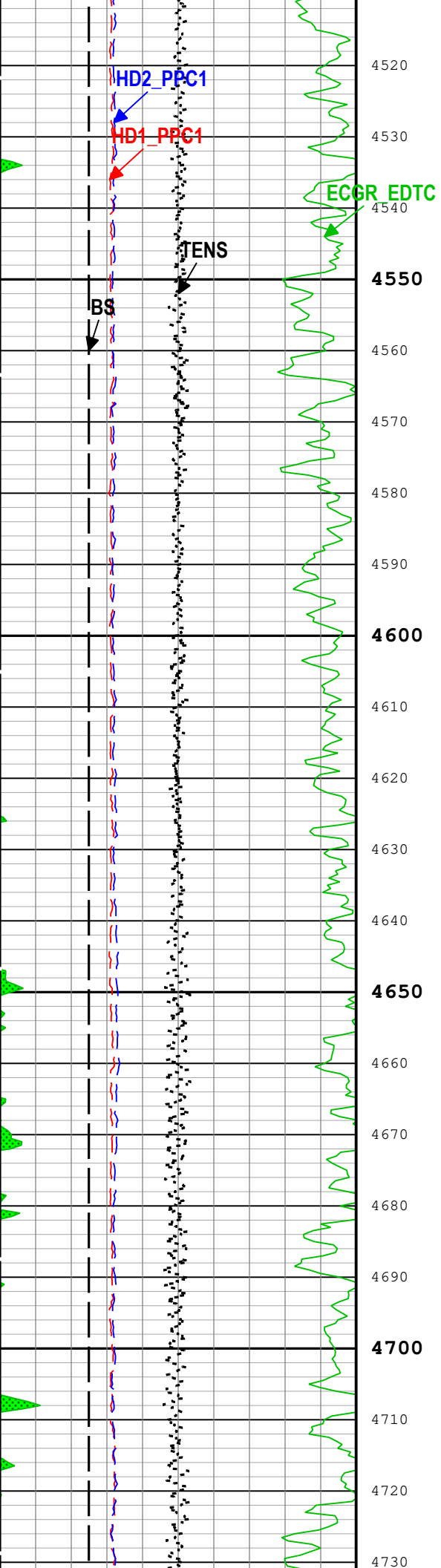


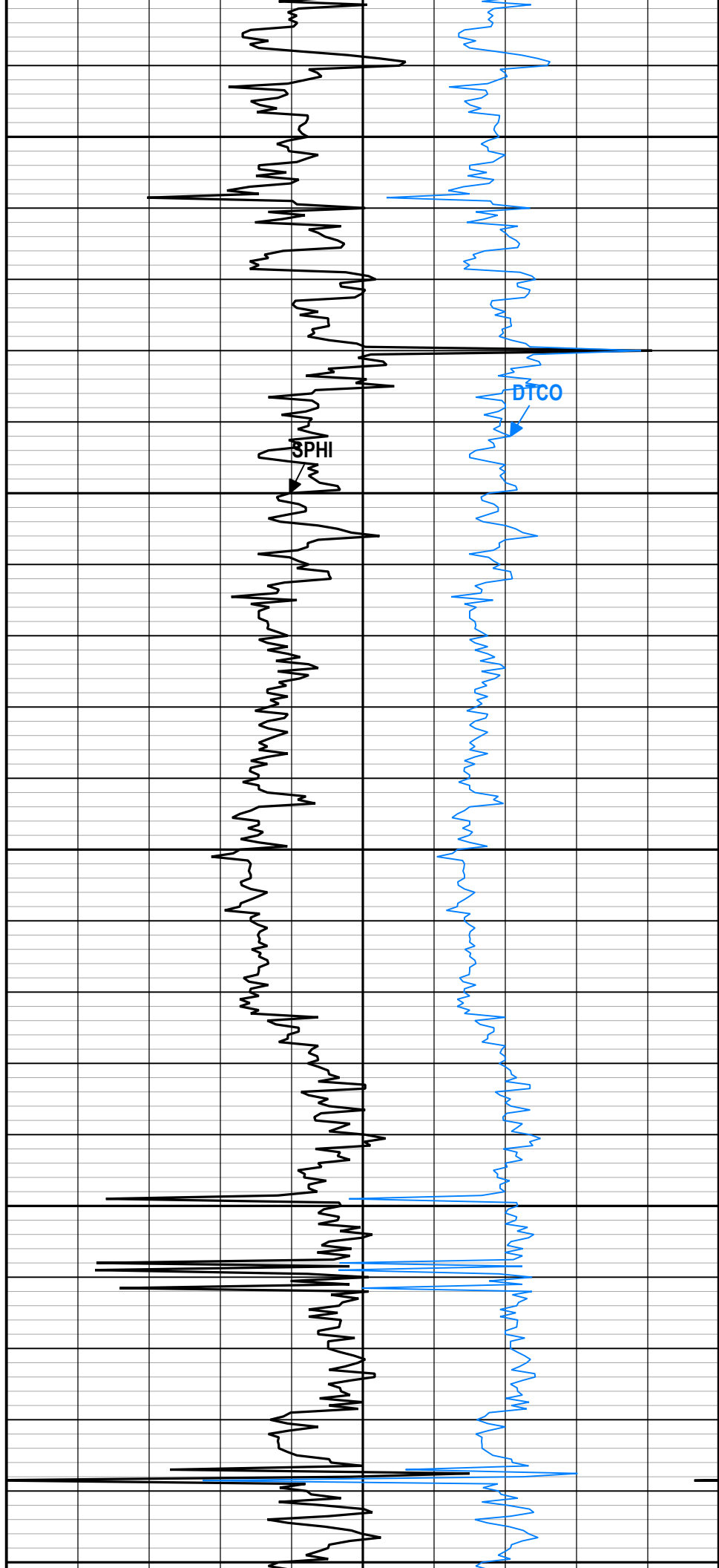
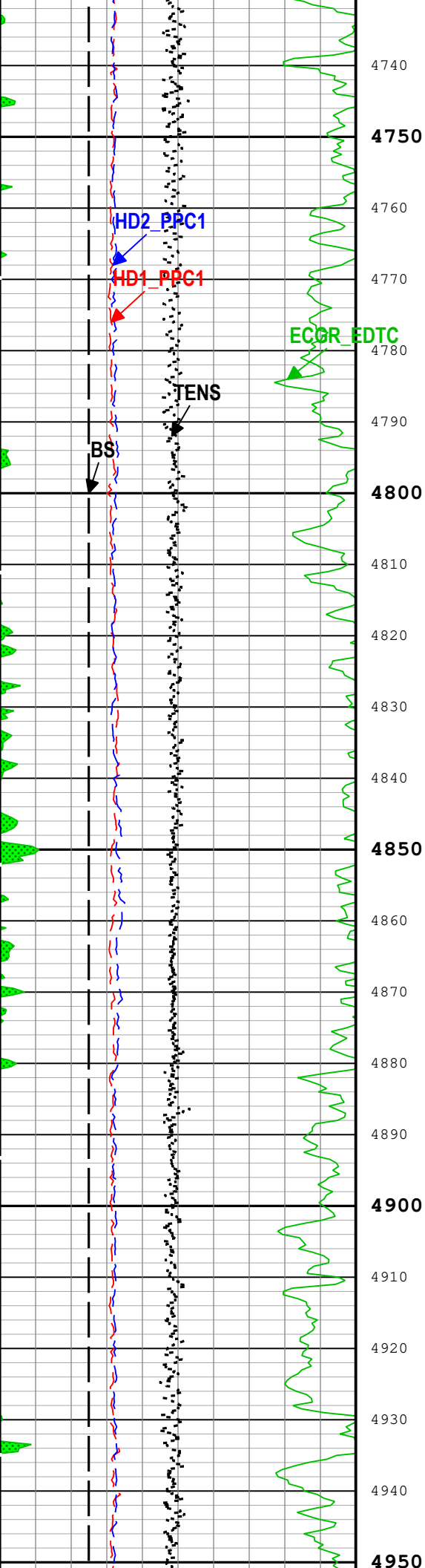


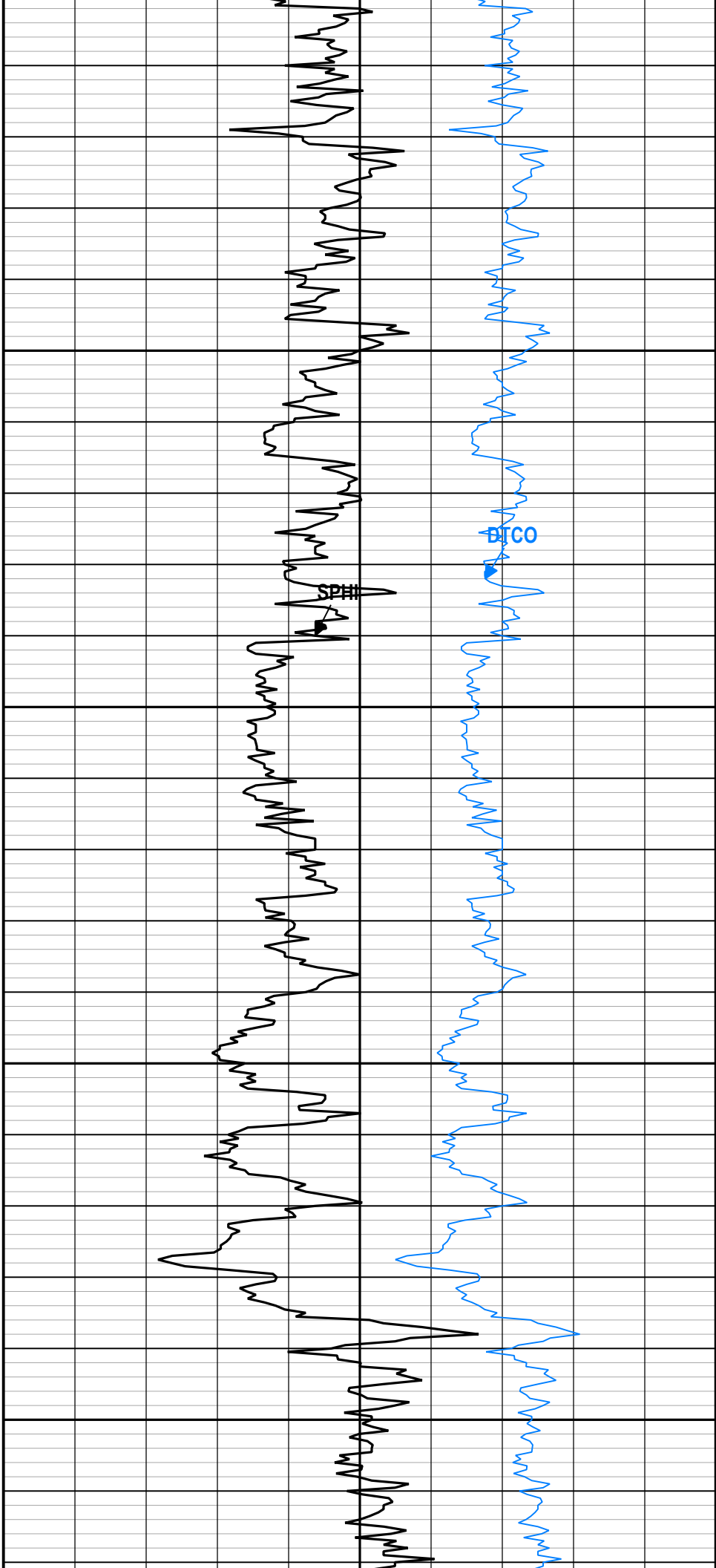
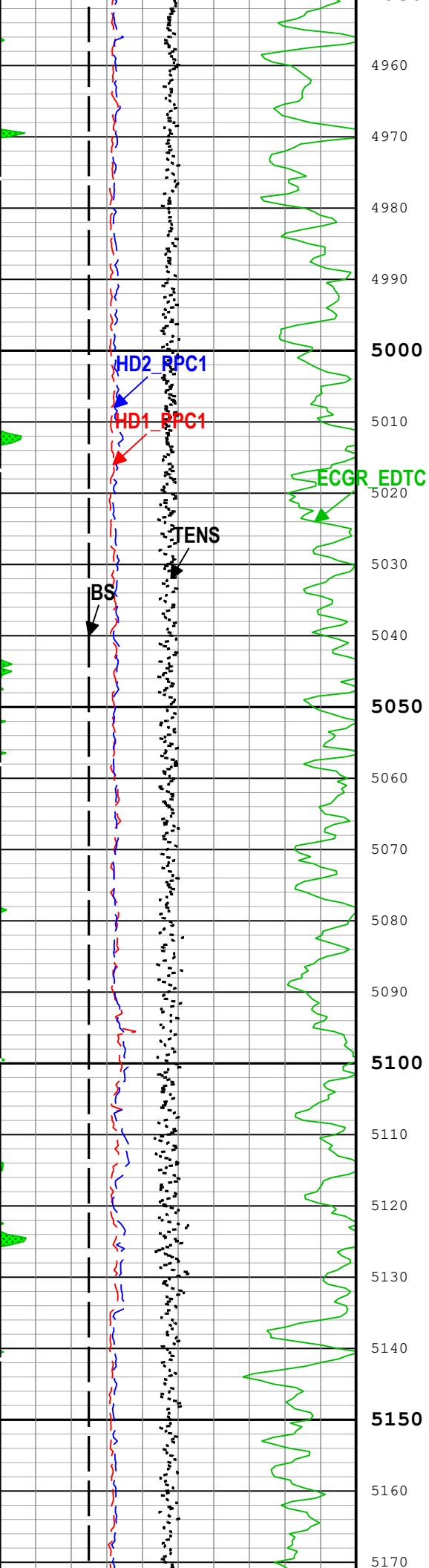


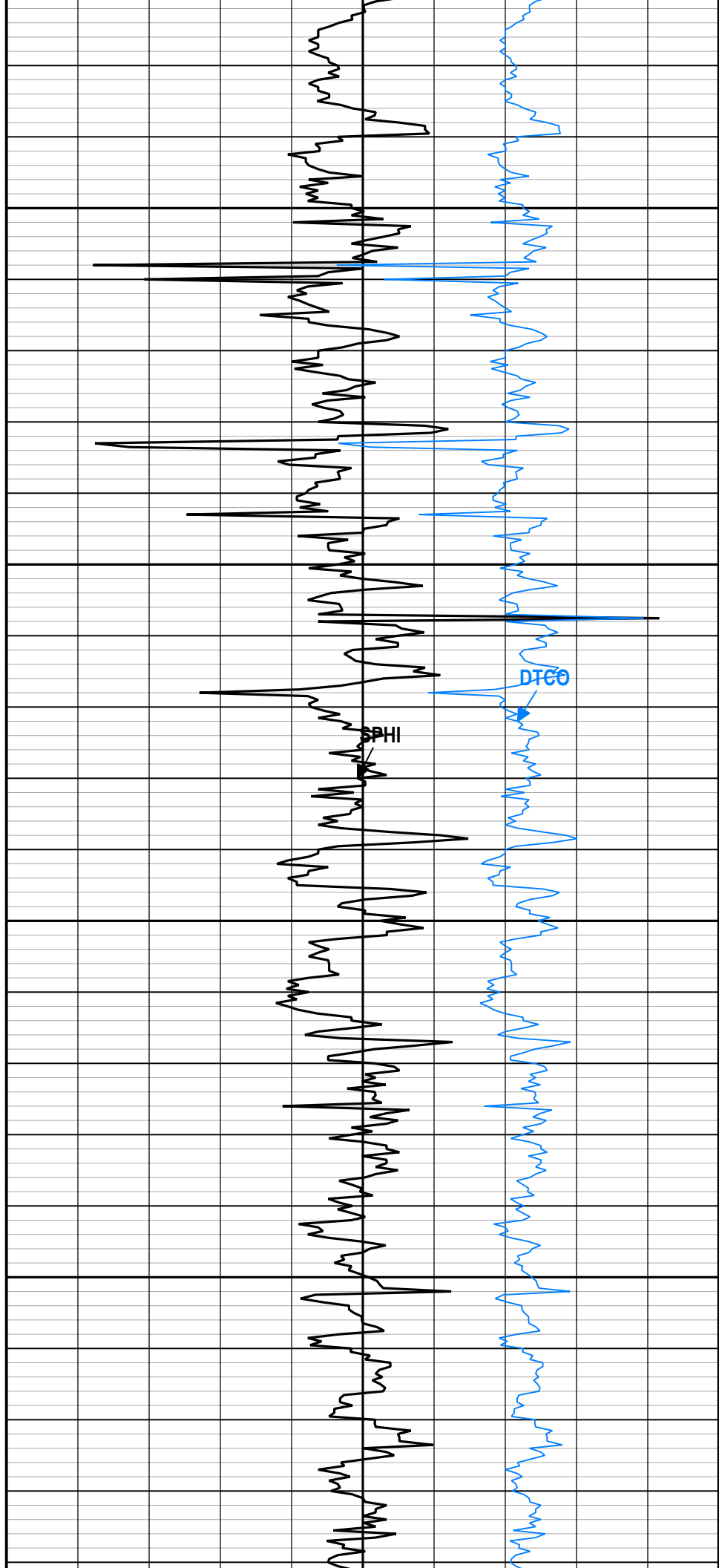
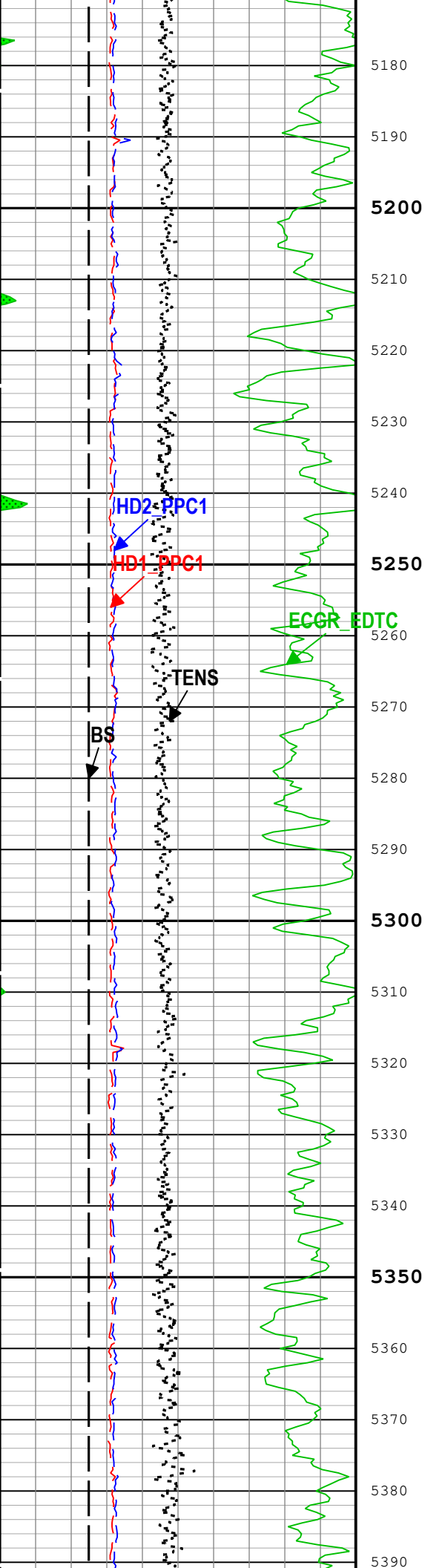


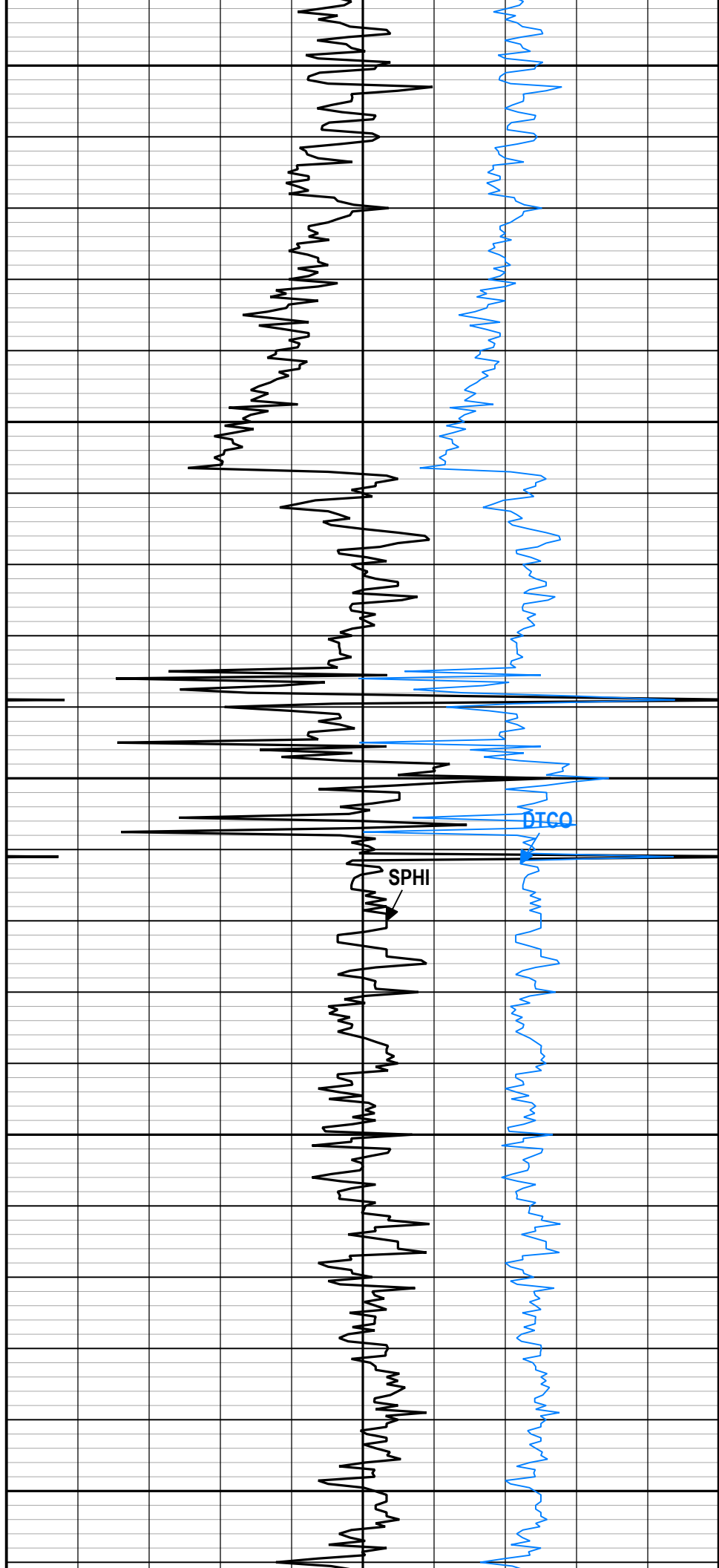
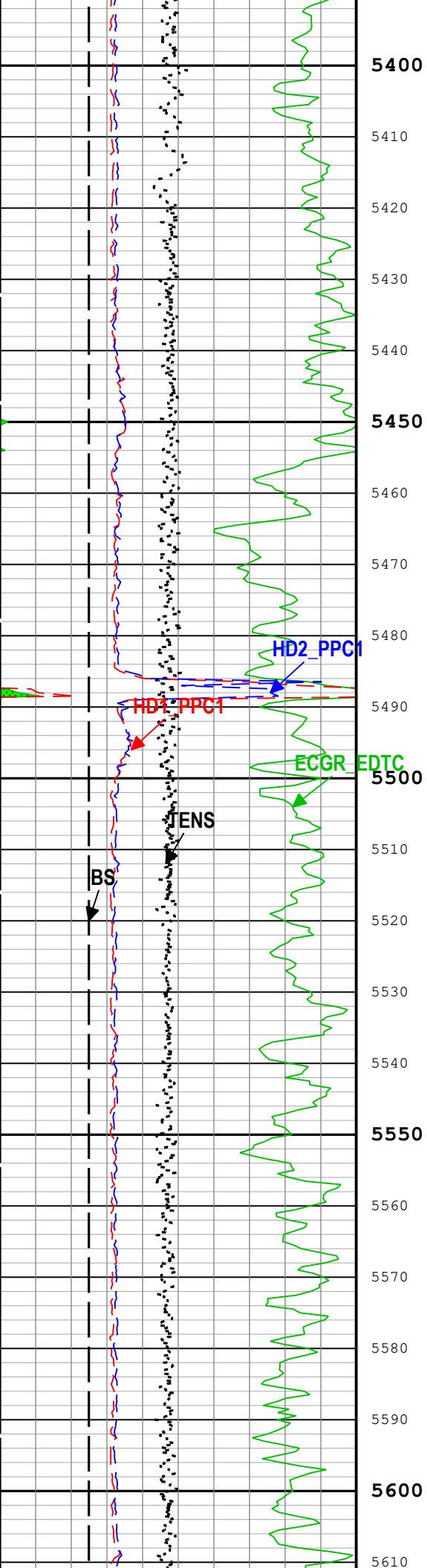


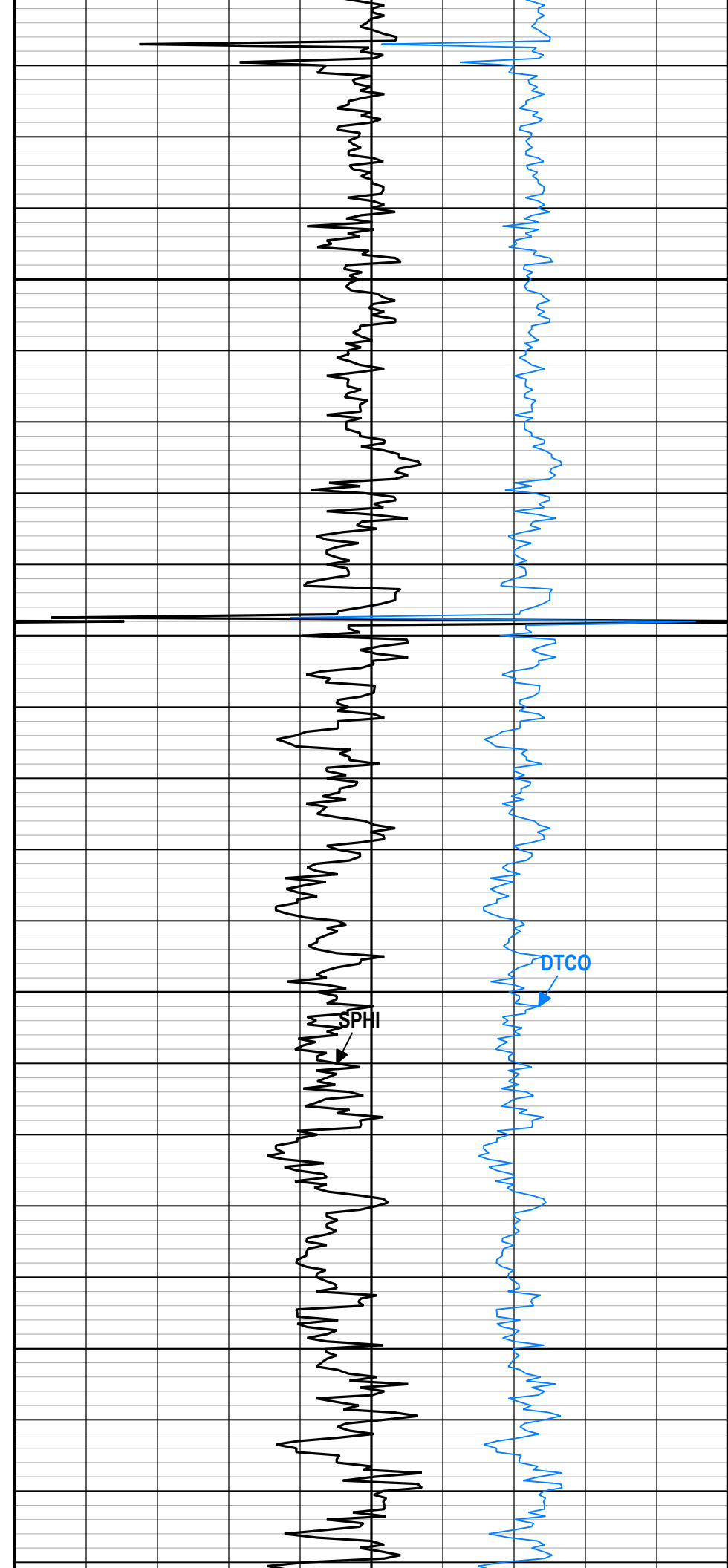
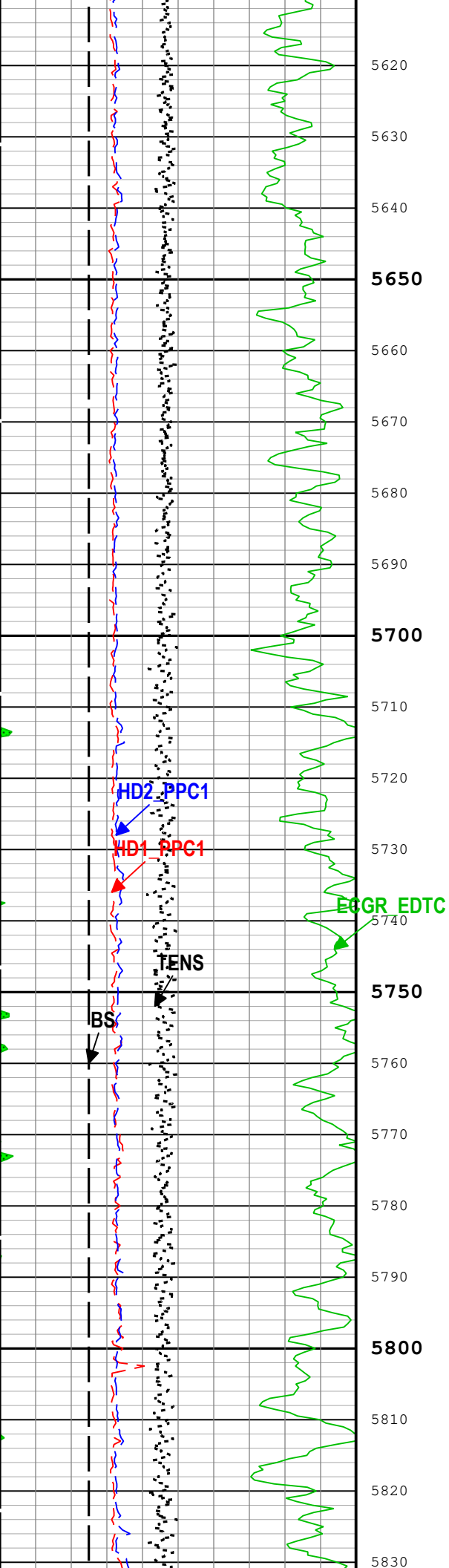


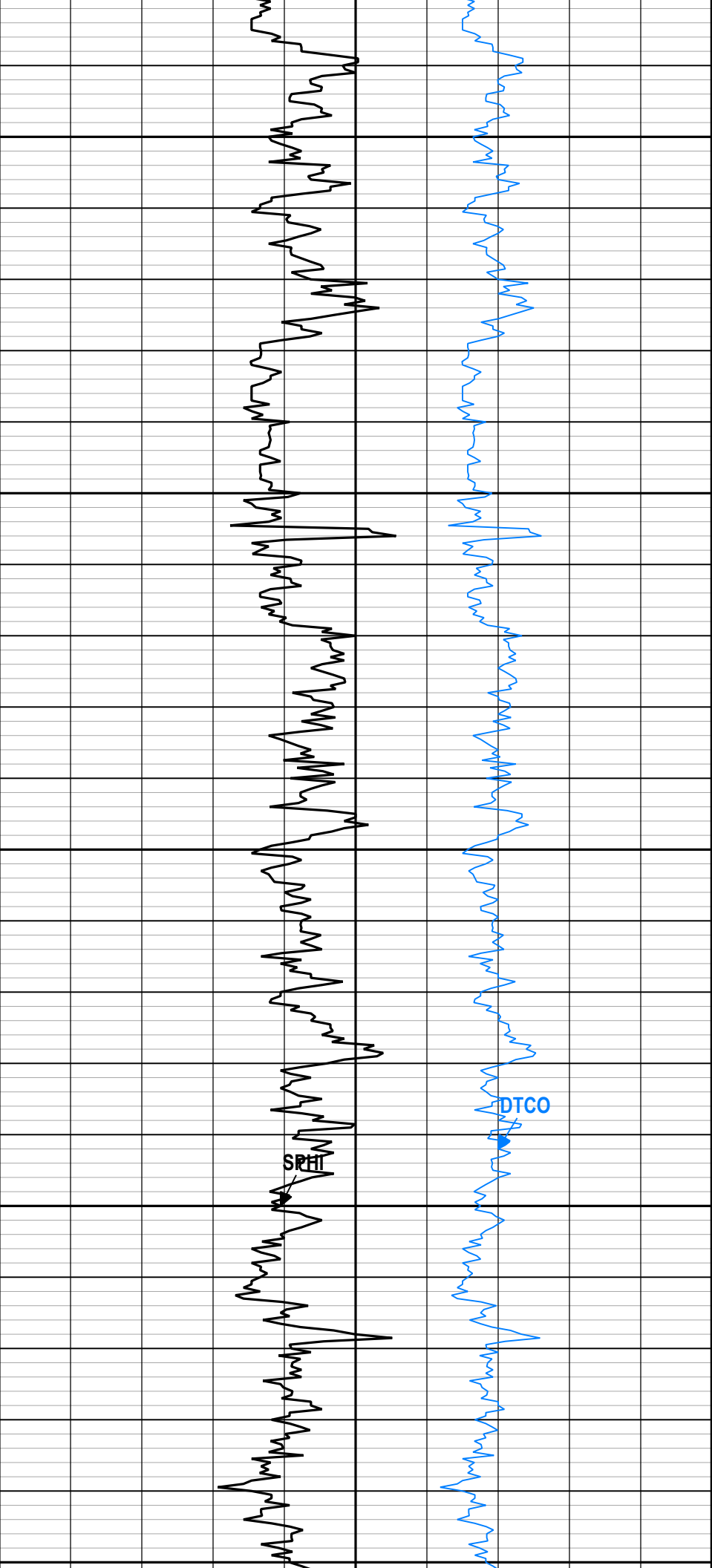
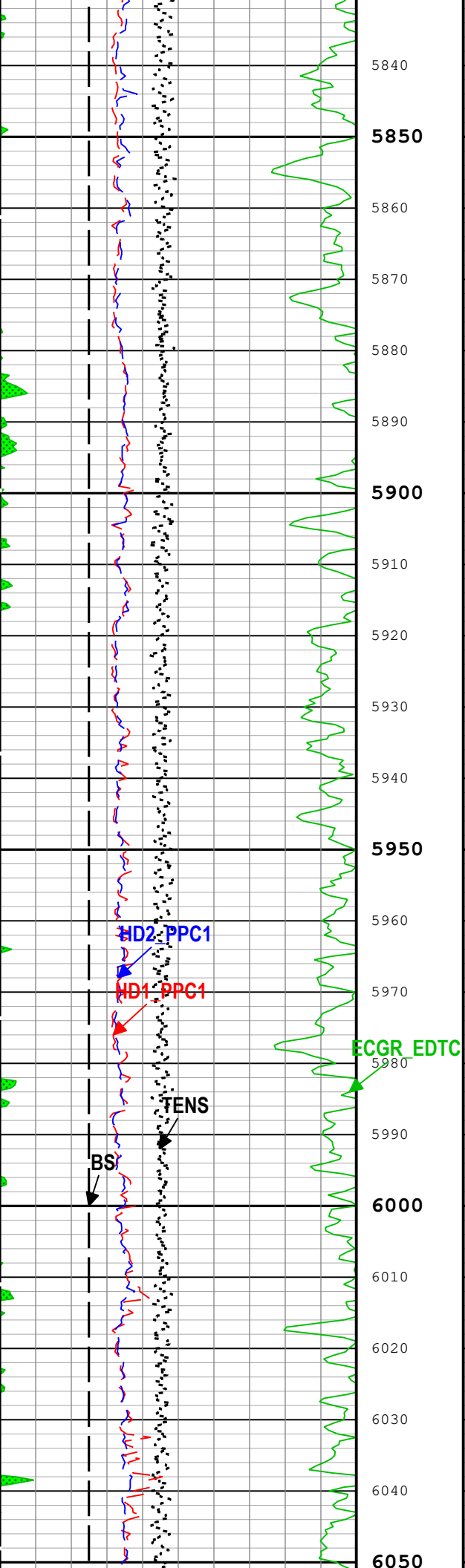


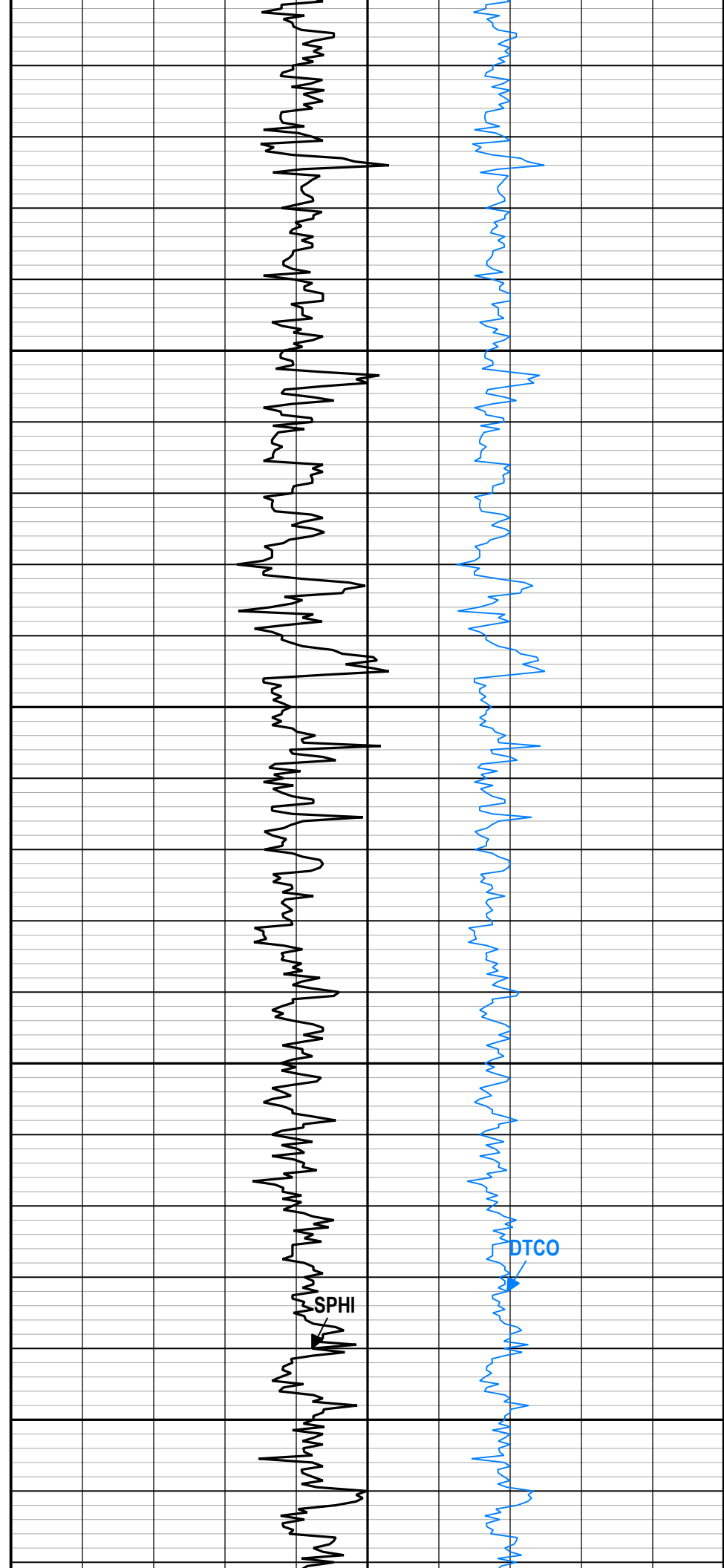
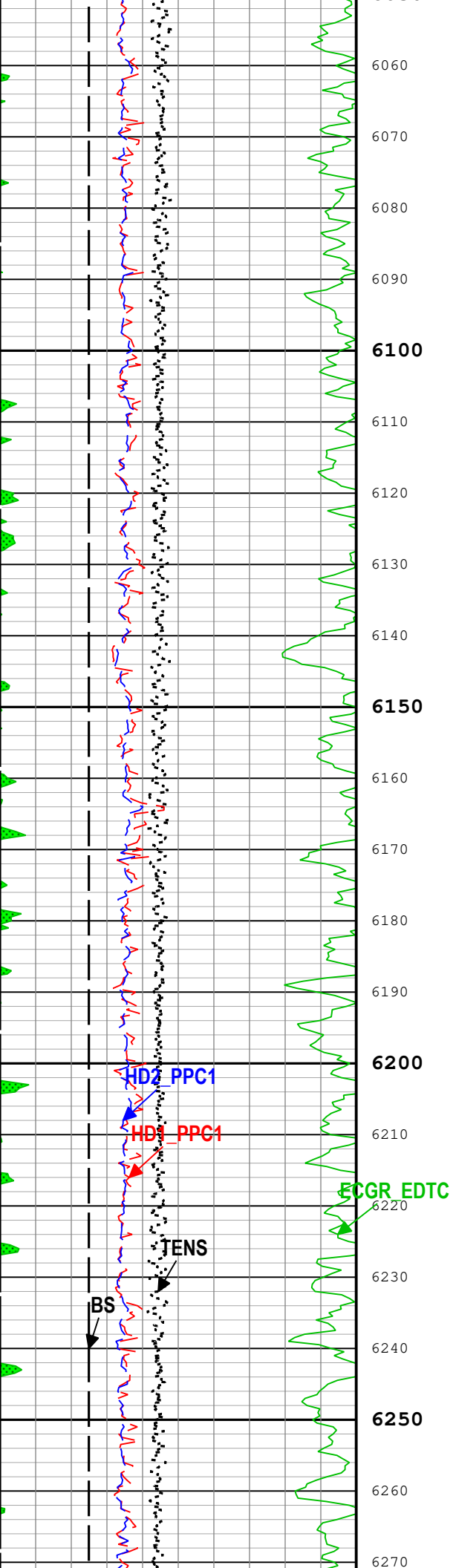


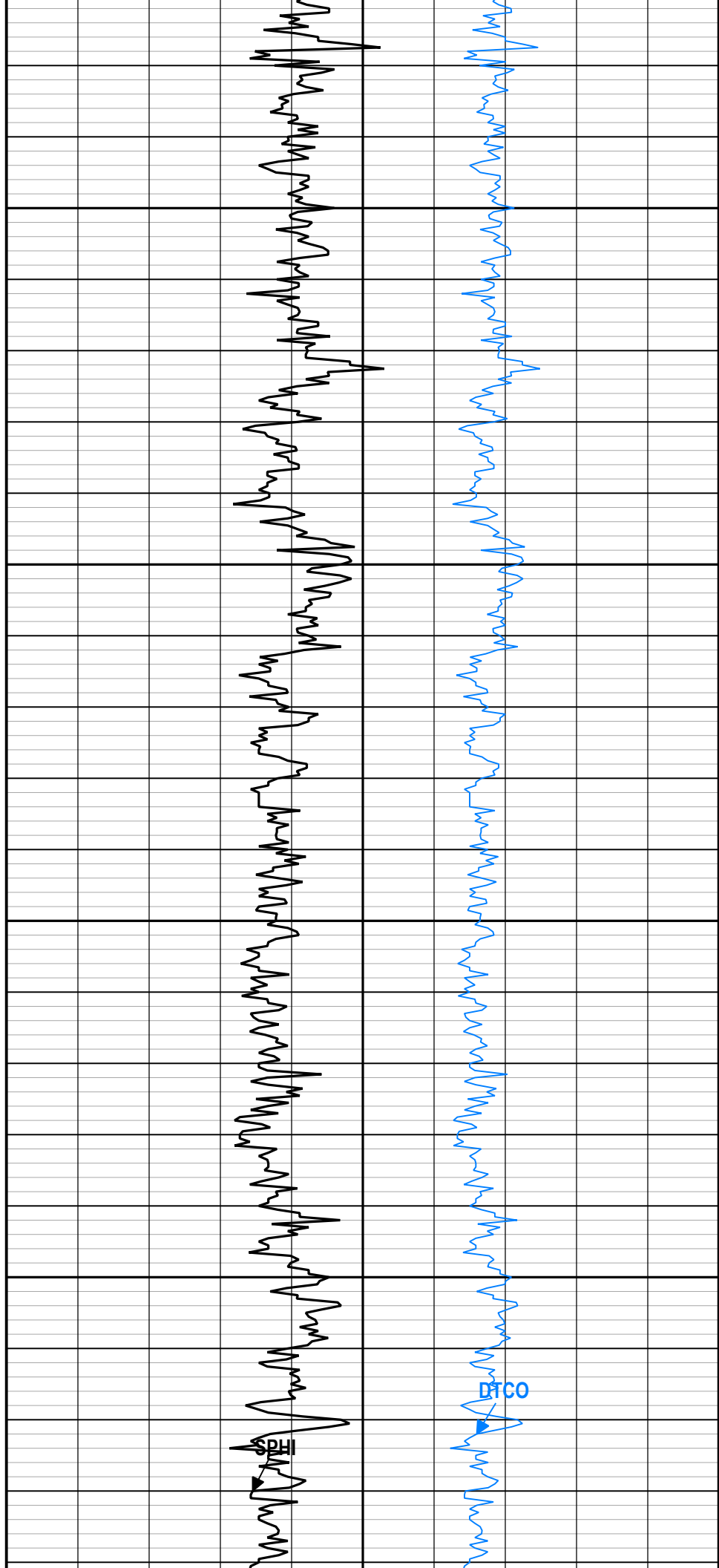
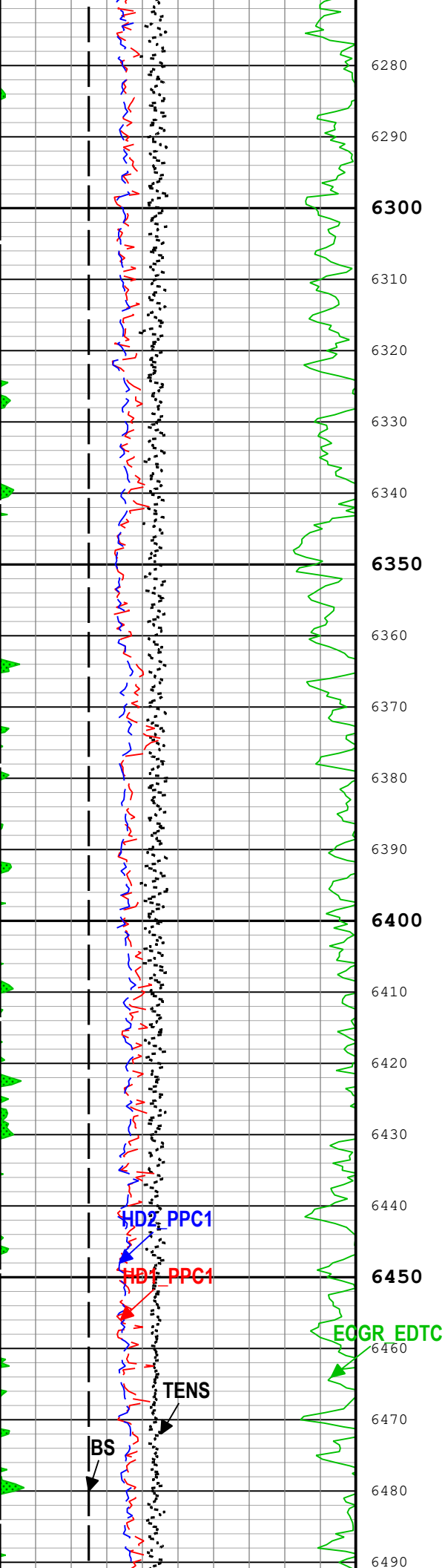


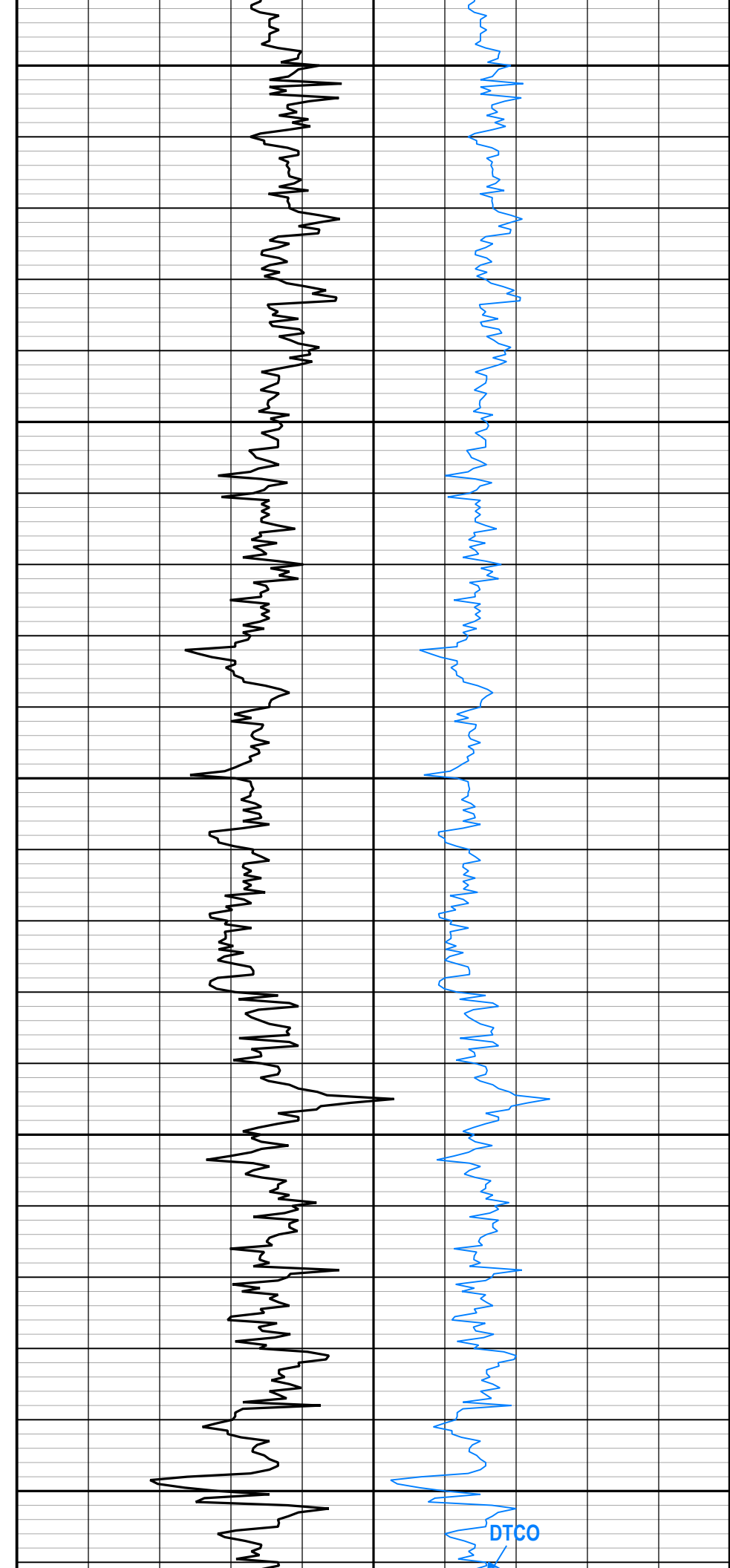
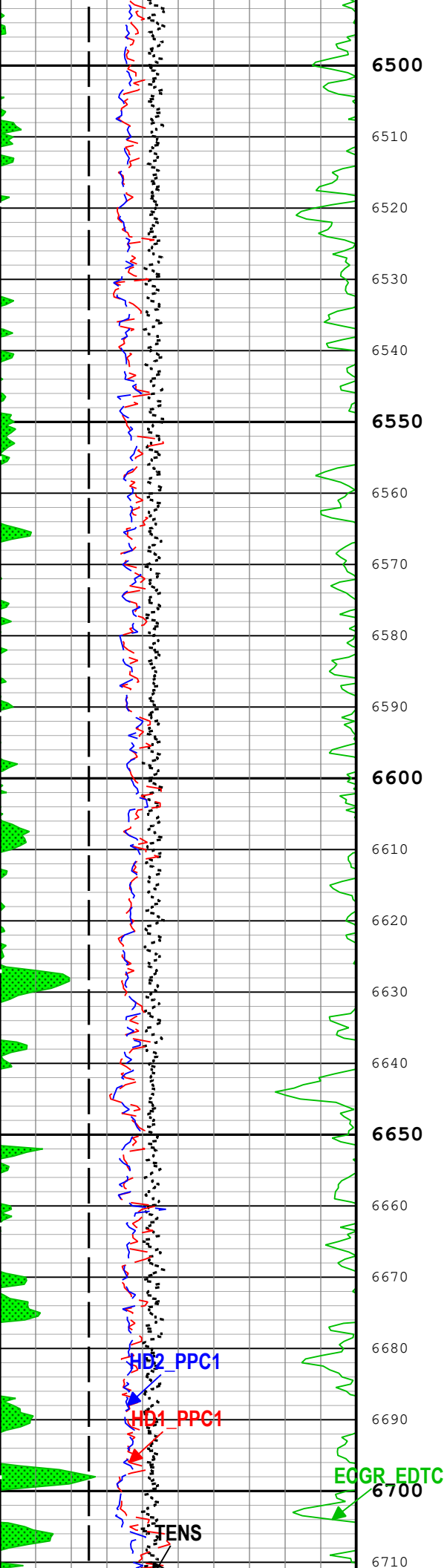


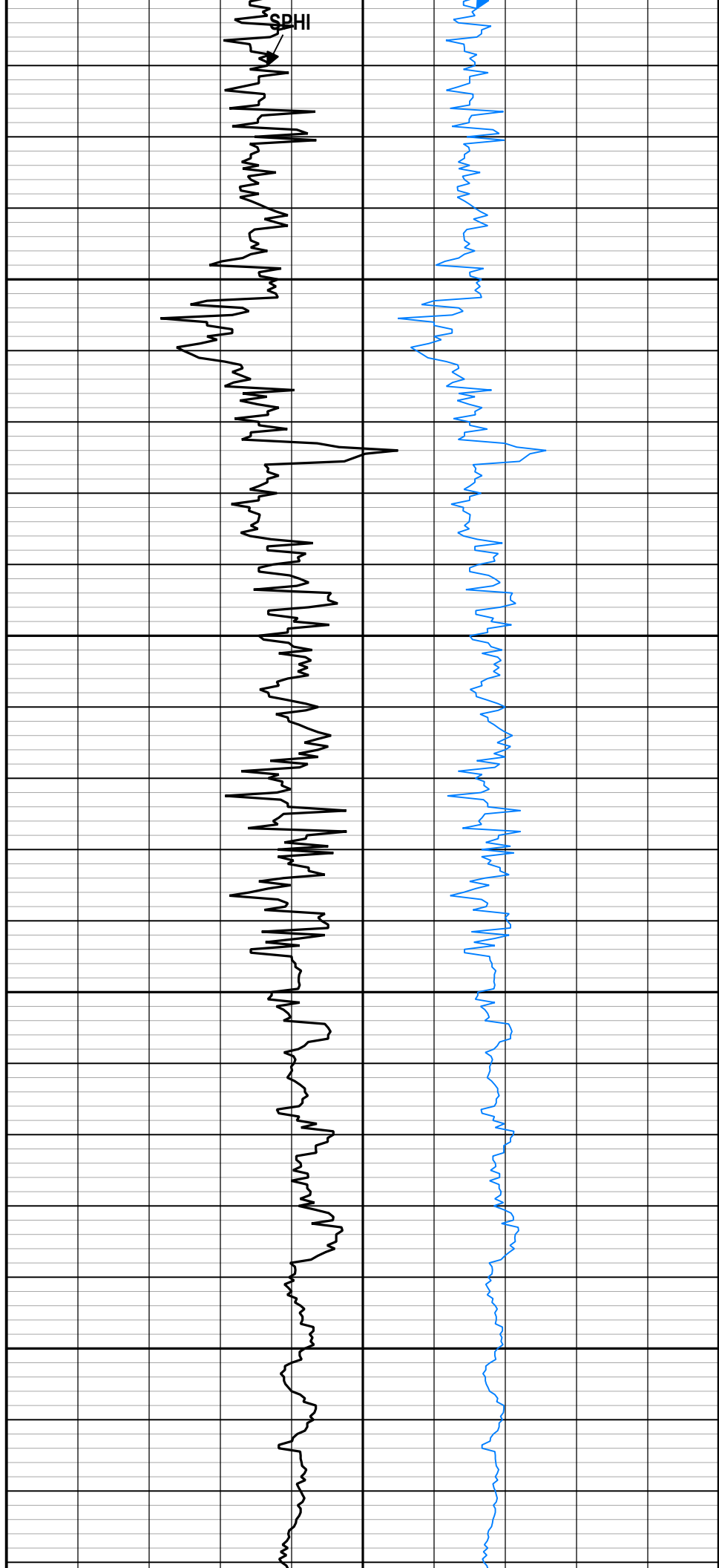
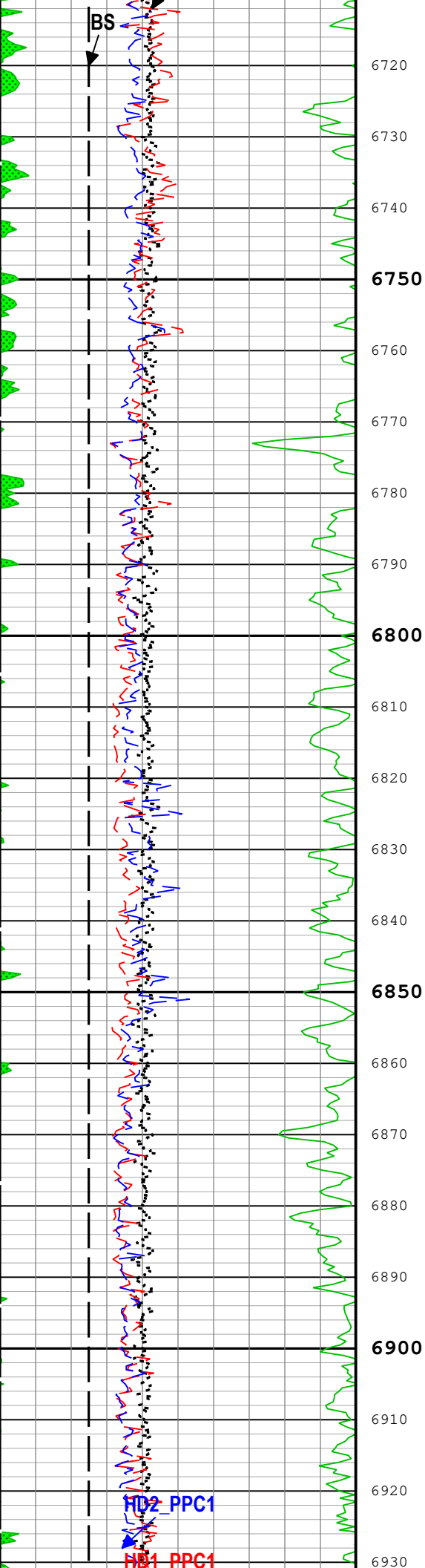


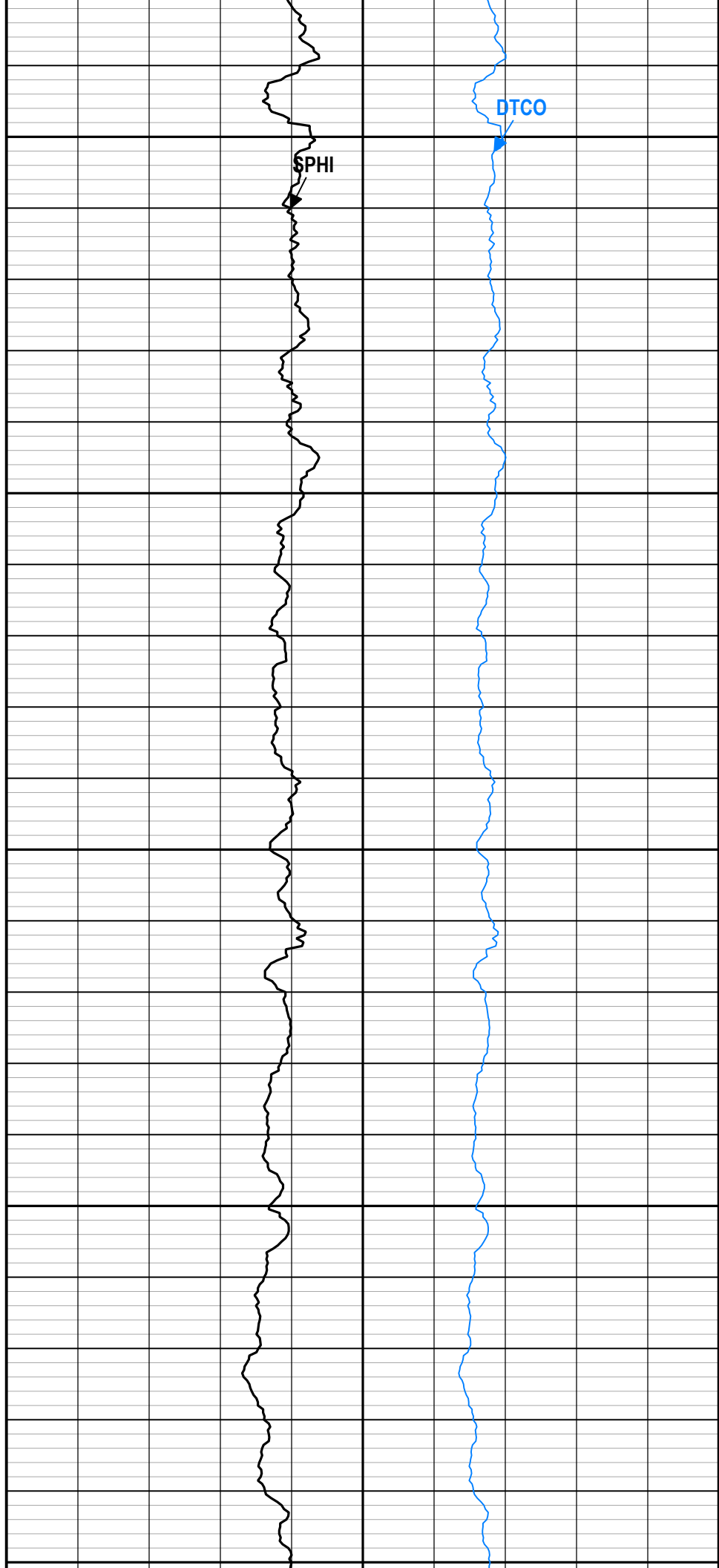
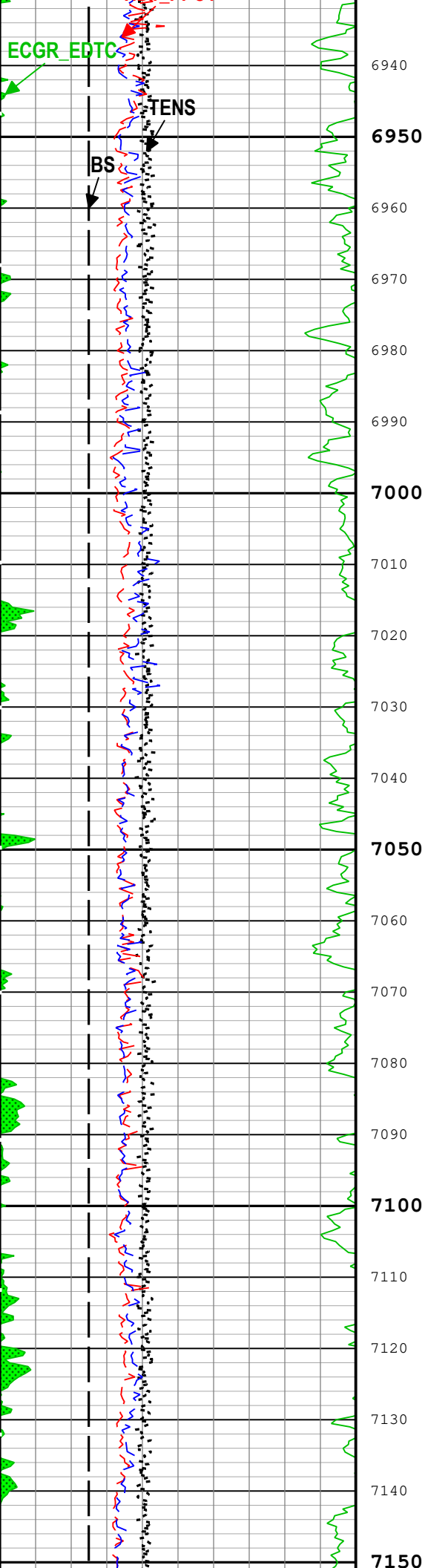


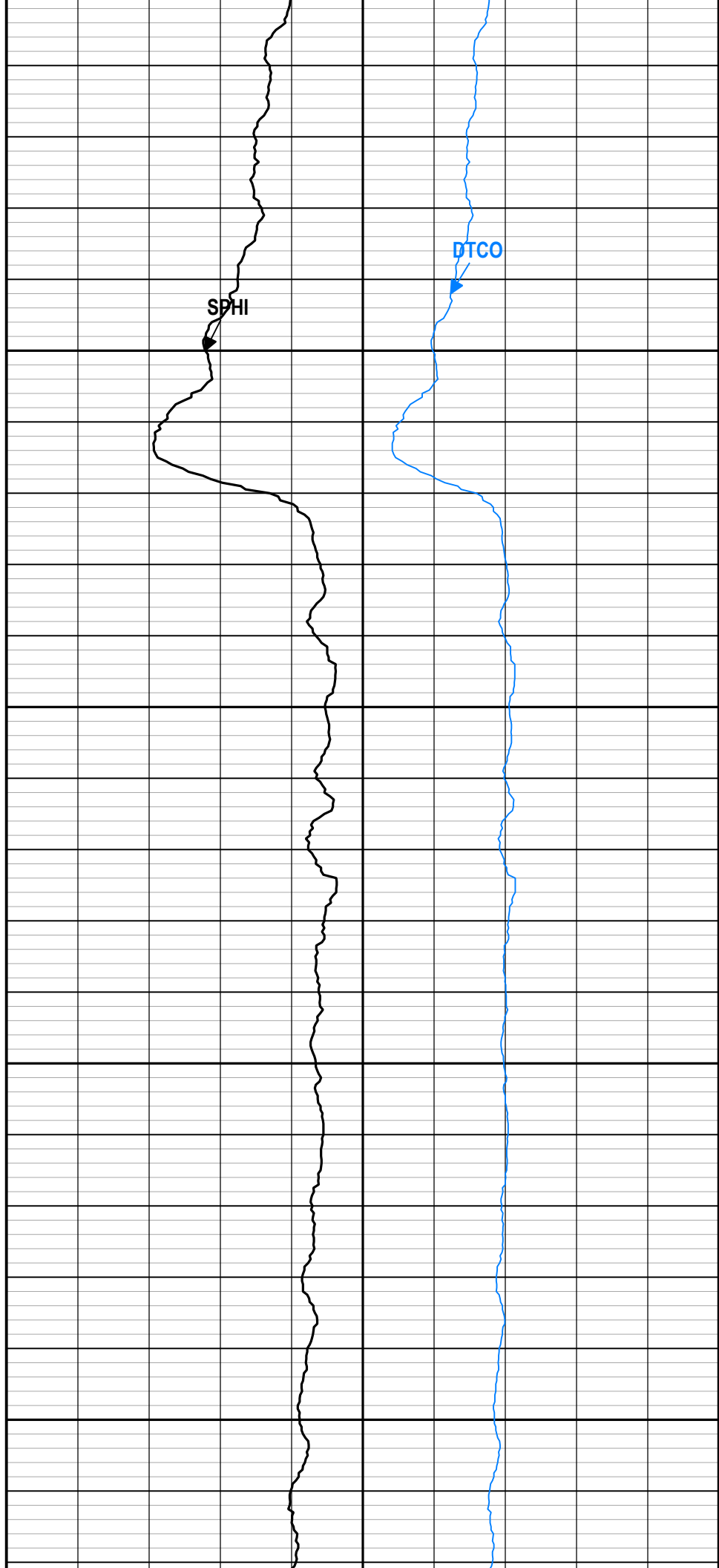
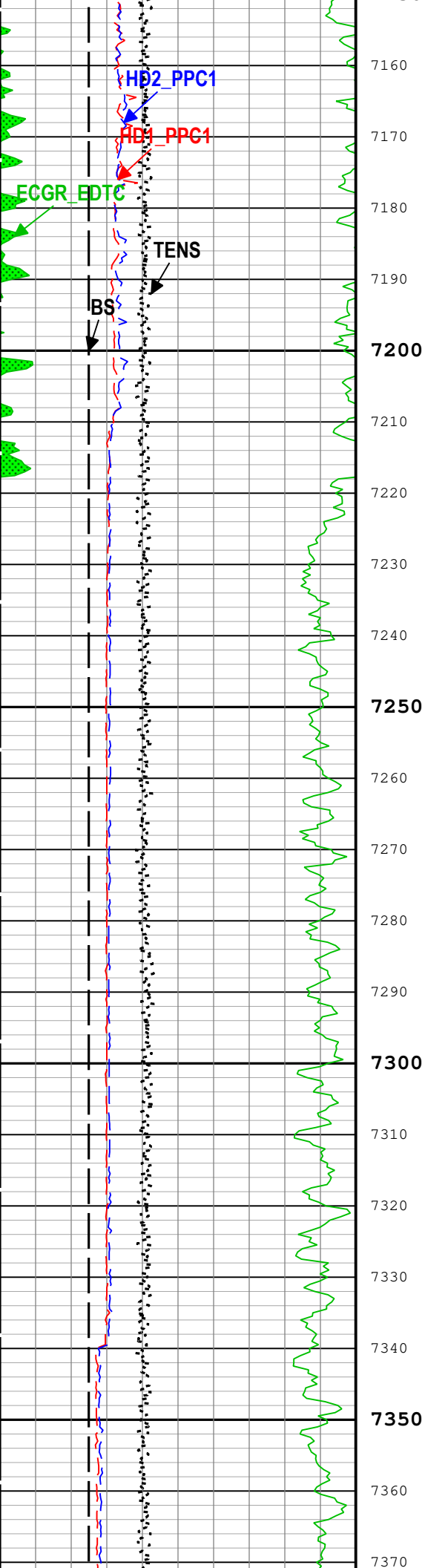


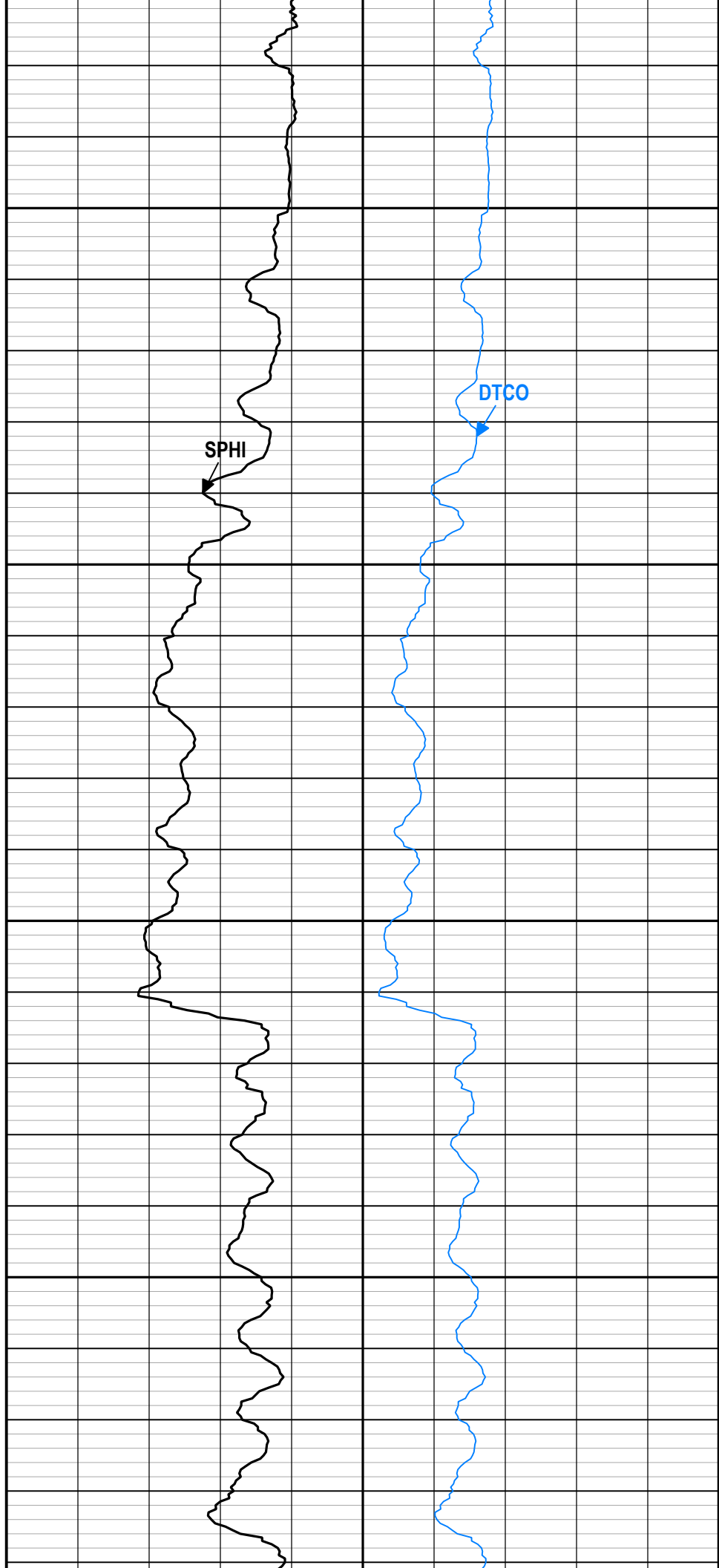
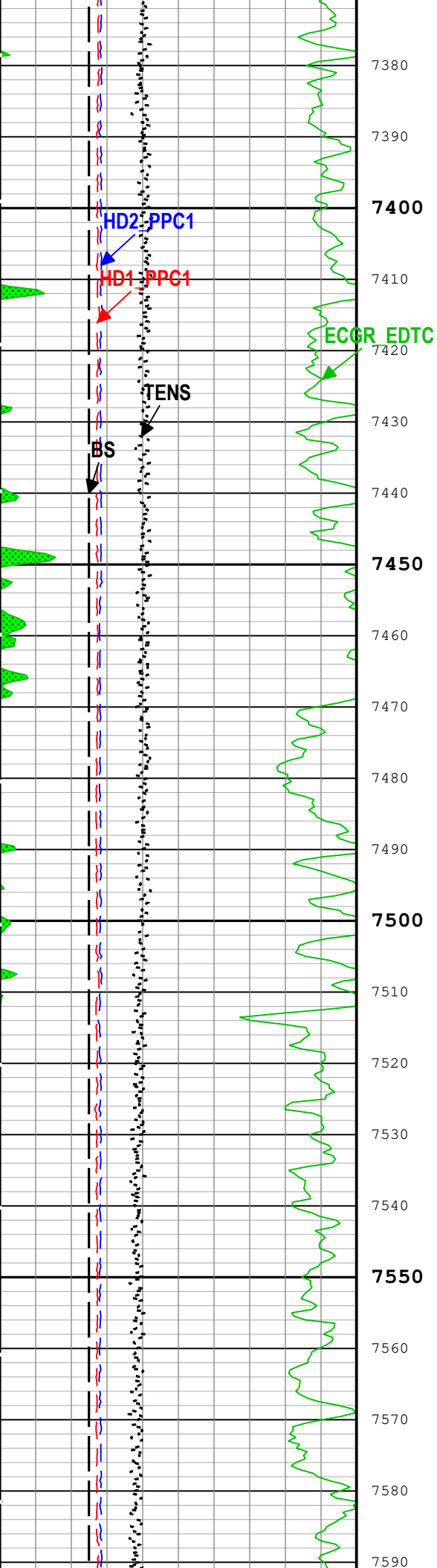


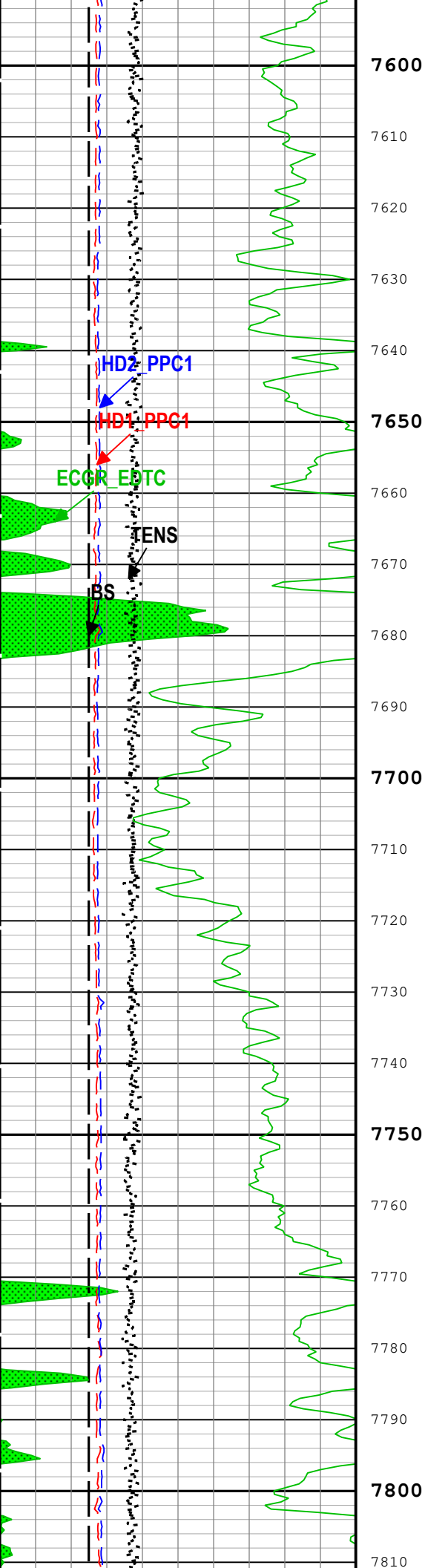




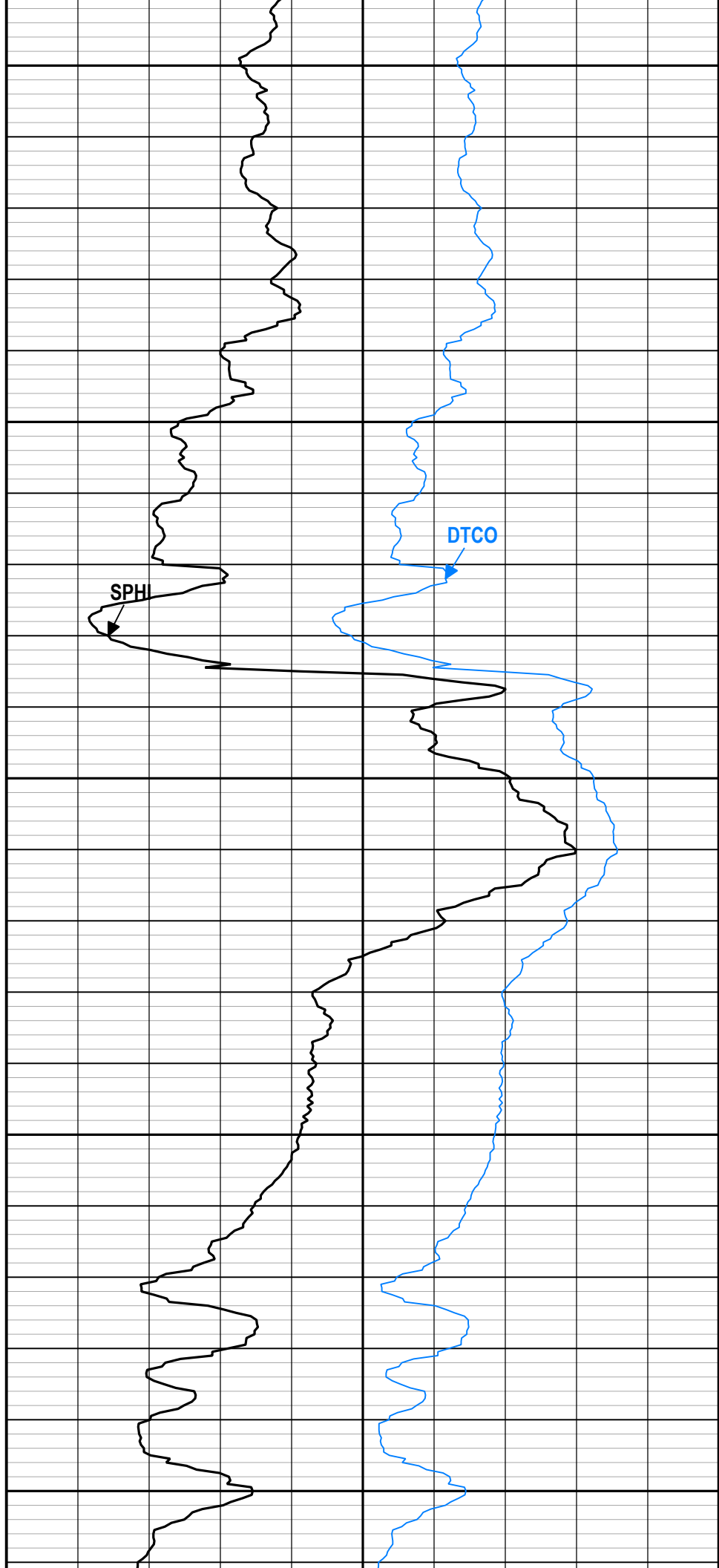


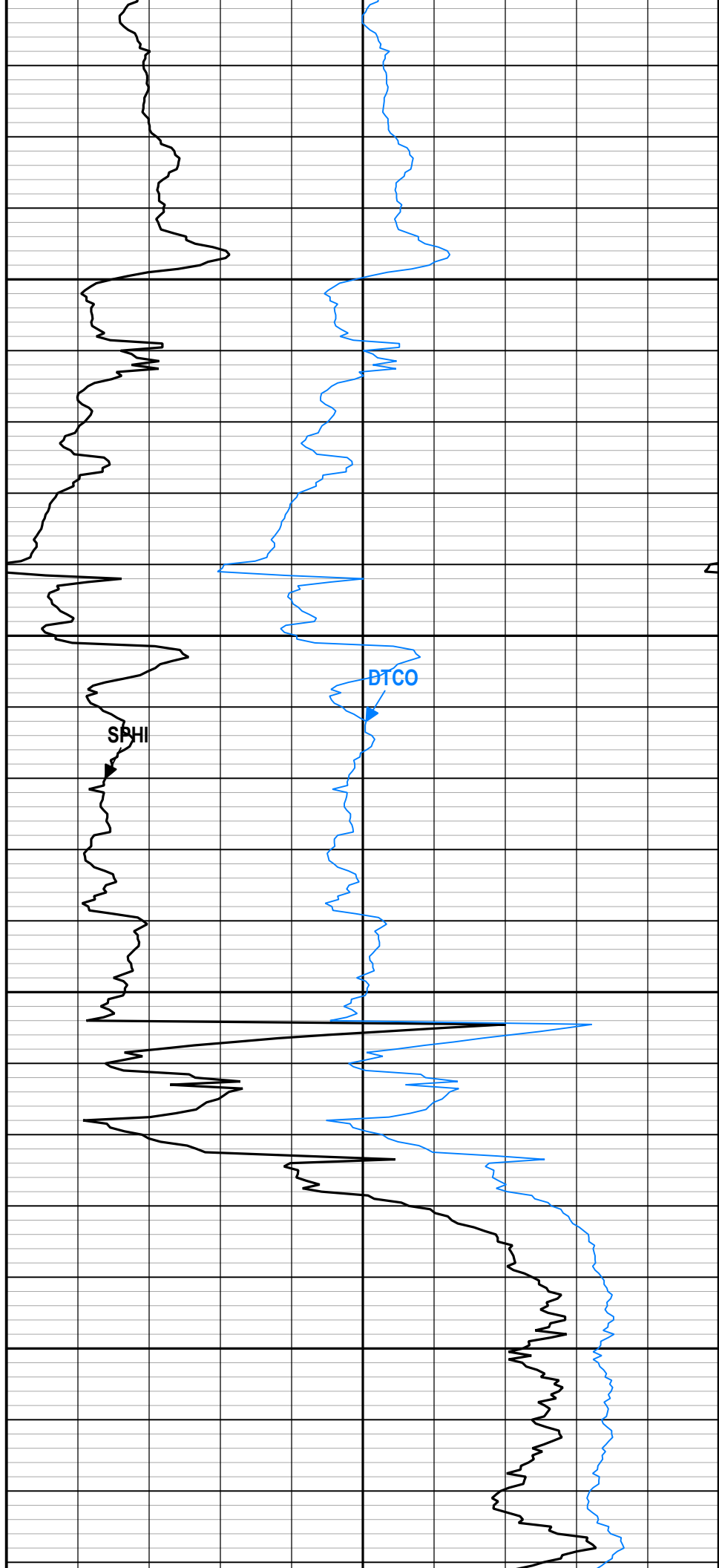
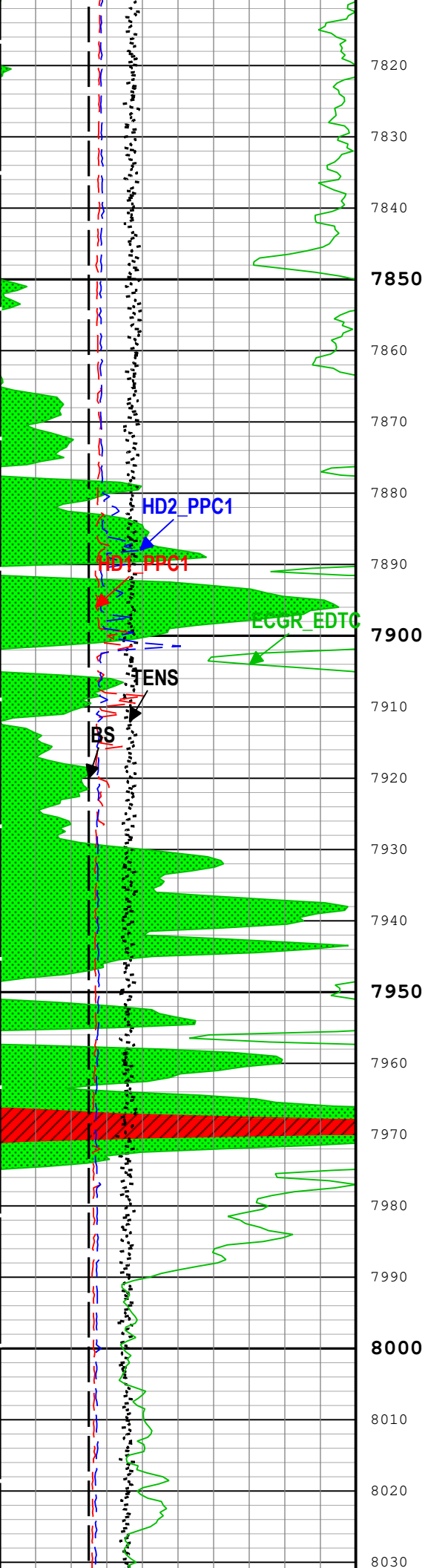


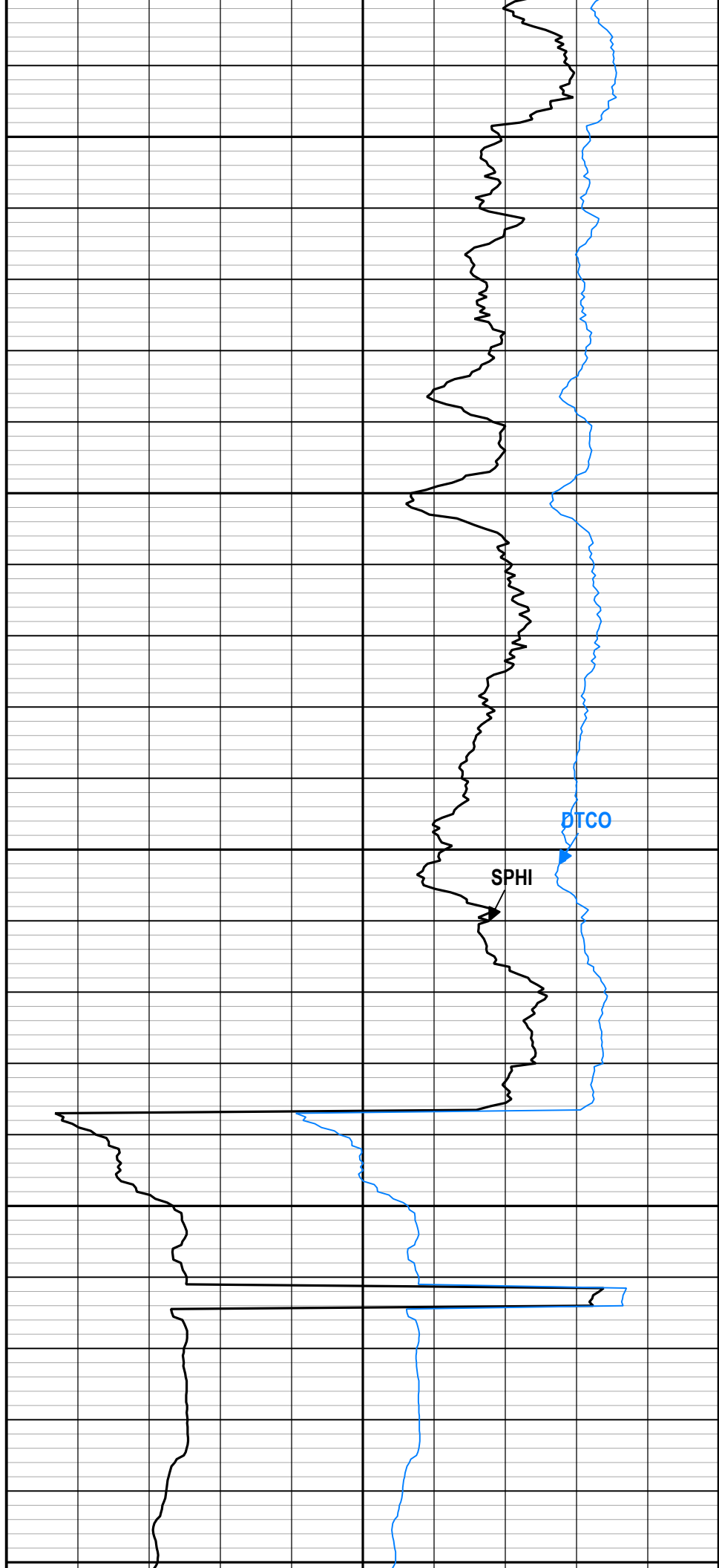
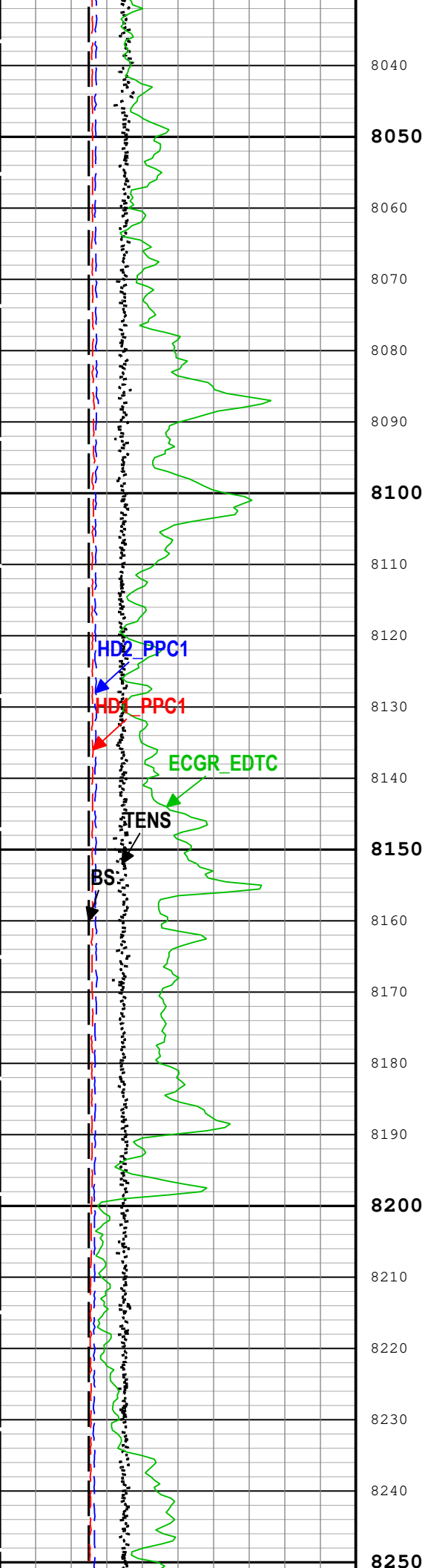


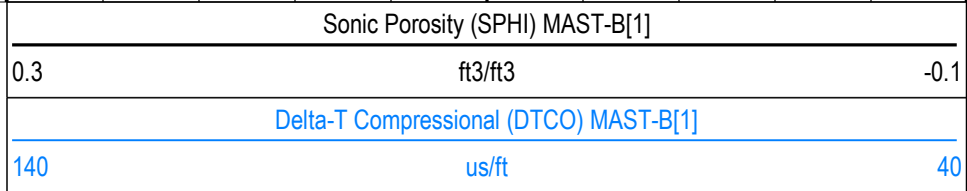
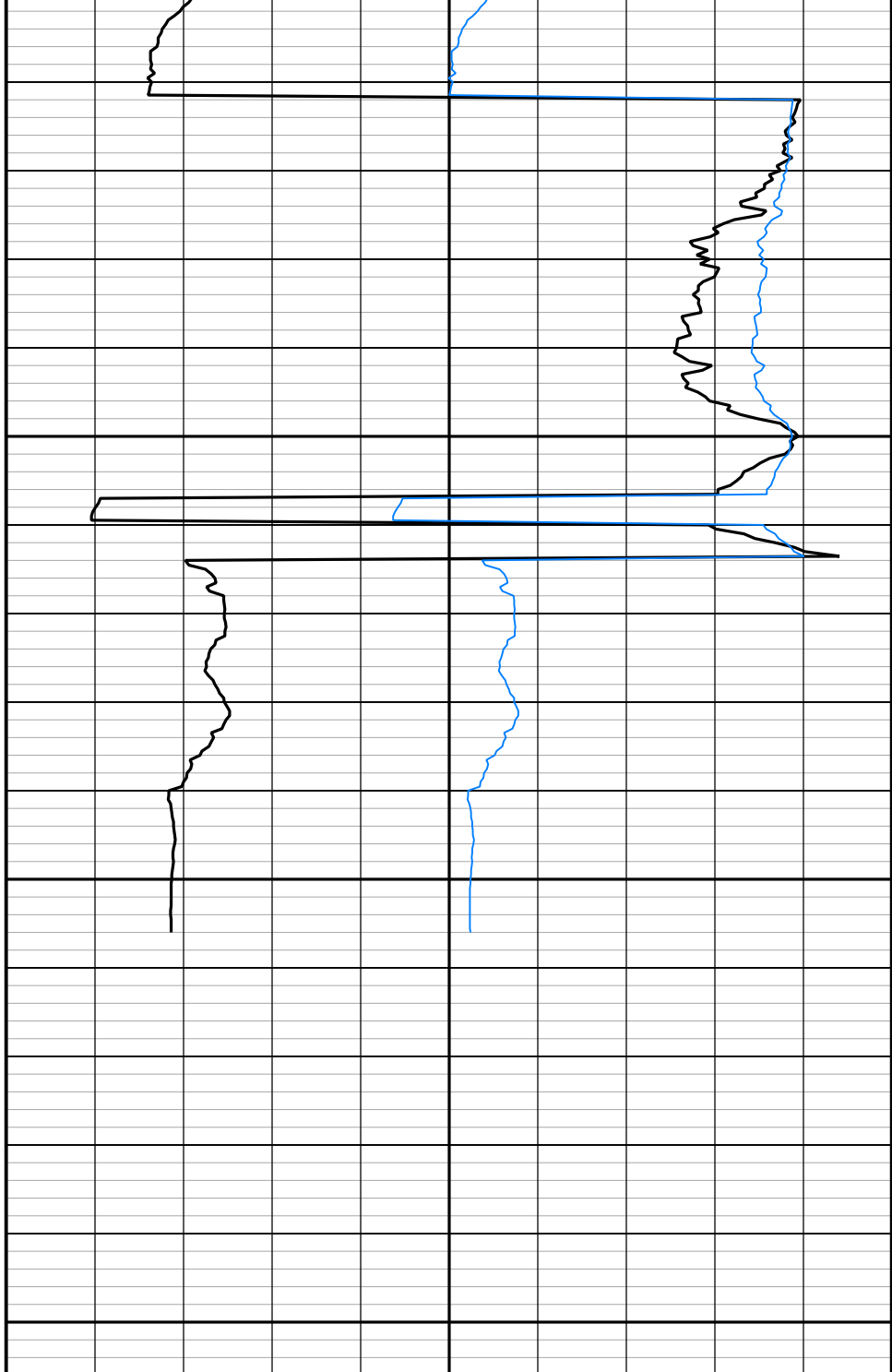
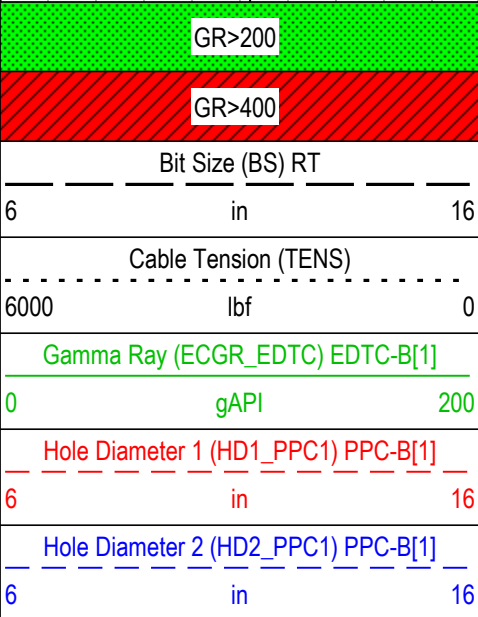
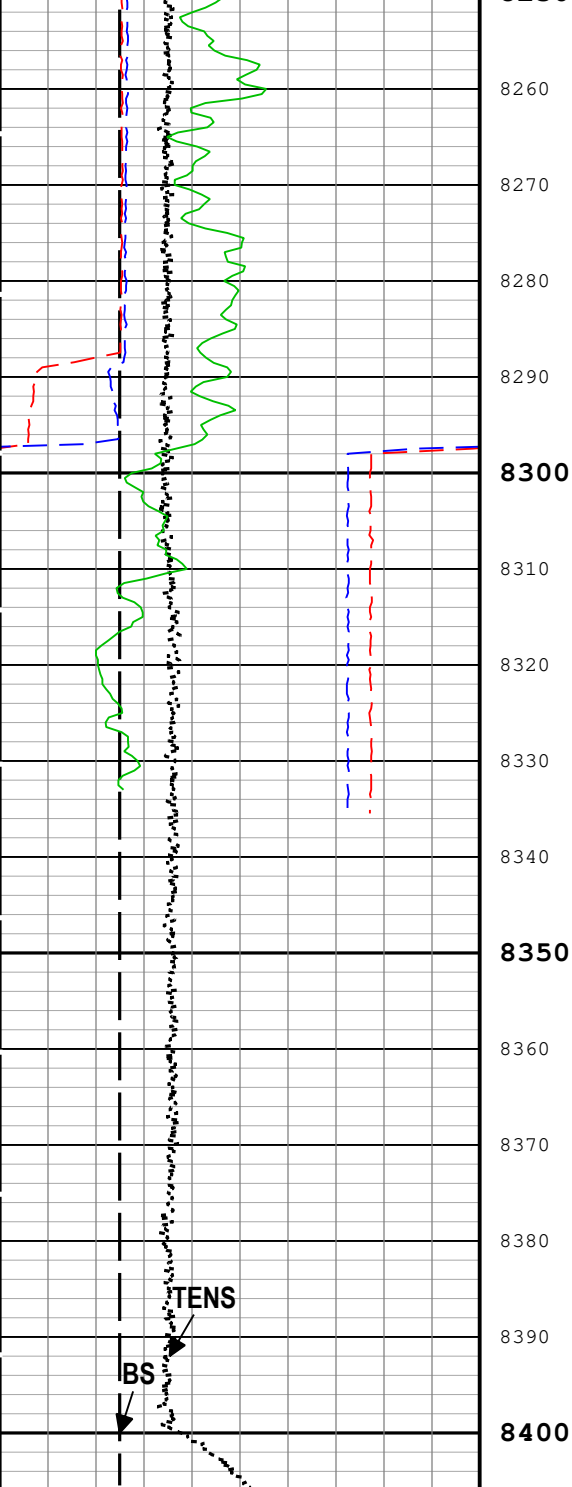


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Channel Processing Parameters				
1D: Parameters				
Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHCCTL	Borehole Compensated Processing Control Flag	MAST-B	Time Zoned	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	8.5	in
CBLO	Casing Bottom (Logger)	WLSESSION	2543	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
CDTS	Correction for Delta-T Shale, Empirical	Borehole	100	us/ft
DC_MODE	Depth Correction Mode	DepthCorrection	Time Zoned	
DET_STOP_MLM_M	Detection Stop Time for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	us
DET_STOP_MUM_M	Detection Stop Time for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	us
DET_STRT_MLM_M	Detection Start Time for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	us
DET_STRT_MUM_M	Detection Start Time for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	us
DFD	Drilling Fluid Density	Borehole	9.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTF	Delta-T Fluid	Borehole	189	us/ft
DTM	Delta-T Matrix	Borehole	56	us/ft
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FMDCTL_MLM_M	First Motion Detection Processing Control Flag for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	
FMDCTL_MUM_M	First Motion Detection Processing Control Flag for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	
FMDRS_MLM_M	First Motion Detection Receiver Selection for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	
FMDRS_MUM_M	First Motion Detection Receiver Selection for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	
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	HD1	
PBHCCTL	Pseudo Borehole Compensated Processing Control Flag	MAST-B	Time Zoned	
SFTY	Slowness Formation Type (Fast, Intermediate, Slow, etc.)	Borehole	Intermediate	
SPFS	Sonic Porosity Formula	Borehole	Raymer-Hunt	

1DTime Zoned Parameters

Pass Log[3]:Up					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
BHCCTL	Off	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DC_MODE	Post-processed Depth	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DET_STOP_MLM_M	583	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DET_STOP_MUM_M	583	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DET_STRT_MLM_M	106	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DET_STRT_MUM_M	106	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
FMDCTL_MLM_M	Off	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
FMDCTL_MUM_M	Off	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
FMDRS_MLM_M	[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03

FMDRS_MUM_M	[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
PBHCCTL	Off	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03

Pass Log[4]:Up					
BHCCTL	On	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DC_MODE	Real-time	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DET_STOP_MLM_M	583.33	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DET_STOP_MUM_M	583.33	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DET_STRT_MLM_M	106.67	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DET_STRT_MUM_M	106.67	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
FMDCTL_MLM_M	On	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
FMDCTL_MUM_M	On	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
FMDRS_MLM_M	[1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
FMDRS_MUM_M	[0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
PBHCCTL	On	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35

Pass Log[5]:Up					
BHCCTL	On	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DC_MODE	Real-time	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DET_STOP_MLM_M	583.33	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DET_STOP_MUM_M	583.33	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DET_STRT_MLM_M	106.67	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DET_STRT_MUM_M	106.67	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
FMDCTL_MLM_M	On	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
FMDCTL_MUM_M	On	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
FMDRS_MLM_M	[1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
FMDRS_MUM_M	[0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
PBHCCTL	On	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35

Pass Log[7]:Up					
BHCCTL	On	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DC_MODE	Real-time	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DET_STOP_MLM_M	583.33	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DET_STOP_MUM_M	583.33	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DET_STRT_MLM_M	106.67	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DET_STRT_MUM_M	106.67	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
FMDCTL_MLM_M	On	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
FMDCTL_MUM_M	On	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
FMDRS_MLM_M	[1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
FMDRS_MUM_M	[0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
PBHCCTL	On	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
All depth are at tool zero.					

Tool Control Parameters					
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1D: Parameters					
Parameter	Description		Tool	Value	Unit
ACQ_DOMAIN	Custom Acquisition Domain Name		MAST P	Time Zone	

ACQ_DOMAIN	Custom Acquisition Domain Name	MAST-B	Time Zoned	
ACQCTL	Acquisition Control	MAST-B	Time Zoned	
CBOOTSTA_MAPC	MAMS Controller Boot Status	MAST-B	1	
CONTROLLER_FIRM_REV_MAPC	MAPC Firmware Revision of Controller Electronics	MAST-B	1840	
COMPCTL	Data Compression Control	MAST-B	Time Zoned	
DHMODALCTL	Downhole/Surface Modal Computation Control	MAST-B	Time Zoned	
DIGDEL	Waveform Digitizing Delay	MAST-B	Time Zoned	us
DIGDT	Sonic Waveform Digitizing Slowness	MAST-B	Time Zoned	us/ft
DIGTIME	Digitizing Time	MAST-B	Time Zoned	us
DIIN_WF_CHN	Dipole Inline Component Waveform Data Channel Name	MAST-B	Time Zoned	
DIIN_WFN_CHN	Dipole Inline Component Waveform Normalization Data Channel Name	MAST-B	Time Zoned	
DIOF_WF_CHN	Dipole Offline Component Waveform Data Channel Name	MAST-B	Time Zoned	
DIOF_WFN_CHN	Dipole Offline Component Waveform Normalization Data Channel Name	MAST-B	Time Zoned	
GNINT	Automatic Gain Selection Time Interval	MAST-B	Time Zoned	us
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	Time Zoned	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	Time Zoned	
MONO_WFN_CHN	Monopole Component Waveform Normalization Data Channel Name	MAST-B	Time Zoned	
MSMT_LIST	Measurement List	MAST-B	Time Zoned	
NUMMSMT	Number of active measurements	MAST-B	Time Zoned	
PROD_MASTUI	MAST Product Class Selection	MAST-B	Time Zoned	
SENSOR10_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #10	MAST-B	1057	
SENSOR11_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #11	MAST-B	1057	
SENSOR12_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #12	MAST-B	1057	
SENSOR13_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #13	MAST-B	1057	
SENSOR1_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #1	MAST-B	1057	
SENSOR2_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #2	MAST-B	1057	
SENSOR3_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #3	MAST-B	1057	
SENSOR4_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #4	MAST-B	1057	
SENSOR5_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #5	MAST-B	1057	
SENSOR6_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #6	MAST-B	1057	
SENSOR7_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #7	MAST-B	1057	
SENSOR8_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #8	MAST-B	1057	
SENSOR9_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #9	MAST-B	1057	
RBOOTSTA_MAPC	MAMS Receiver Boot Status	MAST-B	1	
RXSEL	Receiver Station Select	MAST-B	Time Zoned	
SAMINT	Sonic Waveform Sampling Interval	MAST-B	Time Zoned	
SERVICE_LIST	Service Selection List	MAST-B	Time Zoned	
SNSR_WF_CHN	Sensor Waveforms Data Channel Name	MAST-B	Time Zoned	
SNSR_WFN_CHN	Sensor Waveforms Normalization Factor Channel Name	MAST-B	Time Zoned	
SNSRSEL	Sensor Element Select	MAST-B	Time Zoned	
TX_AMP	Transmitter Amplitude Factor	MAST-B	Time Zoned	
TX_WF_SIGNAL	Sonic Drive Signal	MAST-B	Time Zoned	
TXSEL	Transmitter Drive Selection	MAST-B	Time Zoned	
WF_CR_CHN	Waveform Compression Rate Channel Name	MAST-B	Time Zoned	
WF_DEPTH_CHN	Waveform Depth Channel Name	MAST-B	Time Zoned	
WF_QI_CHN	Waveform Quality Indicator Channel Name	MAST-B	Time Zoned	
WFSEL	Transmitter Drive Waveform Selection	MAST-B	Time Zoned	

1DTime Zoned Parameters

Pass Log[3]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
ACQ_DOMAIN	[UMMF, LMMF, FMMF, FMLF, XDCF, YDCF]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
ACQCTL	[1, 1, 1, 1, 1, 1]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
COMPCTL	[MZIPA, MZIPA, MZIPA, MZIPD, MZIPD, MZIPD]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DHMODALCTL	[HALF, OFF, OFF, HALF, HALF, HALF]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIGDEL	[0, 0, 0, 0, 0, 0]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIGDT	[0, 0, 0, 0, 0, 0]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIGTIME	[2550, 2550, 5110, 20440, 30480, 30480]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIIN_WF_CHN	[, , , , SW90C_090, SW00C_000]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIIN_WFN_CHN	[, , , , SW90CN_090, SW00CN_000]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIOF_WF_CHN	[, , , , SW90C_000, SW00C_090]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIOF_WFN_CHN	[, , , , SW90CN_000, SW00CN_090]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
GNINT	[2550, 2550, 5110, 20440, 30480, 30480]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
MAX_LOG_SPEED	1413	17-Apr-2019 00:14:22	17-Apr-2019 00:32:09	8405.74	8179.56
MAX_LOG_SPEED	1500	17-Apr-2019 00:32:09	17-Apr-2019 00:41:24	8179.56	8010.97
MAX_LOG_SPEED	1613	17-Apr-2019 00:41:24	17-Apr-2019 00:43:28	8010.97	7973.27
MAX_LOG_SPEED	1694	17-Apr-2019 00:43:28	17-Apr-2019 00:47:32	7973.27	7898.77
MAX_LOG_SPEED	1781	17-Apr-2019 00:47:32	17-Apr-2019 00:53:43	7898.77	7783.69
MAX_LOG_SPEED	1657	17-Apr-2019 00:53:43	17-Apr-2019 00:55:45	7783.69	7744.53
MAX_LOG_SPEED	1537	17-Apr-2019 00:55:45	17-Apr-2019 00:57:48	7744.53	7705.71
MAX_LOG_SPEED	1695	17-Apr-2019 00:57:48	17-Apr-2019 00:59:51	7705.71	7666.11
MAX_LOG_SPEED	1587	17-Apr-2019 00:59:51	17-Apr-2019 01:05:59	7666.11	7540.28
MAX_LOG_SPEED	1686	17-Apr-2019 01:05:59	17-Apr-2019 01:37:40	7540.28	6894.03
MAX_TOOL_SPEED	1413	17-Apr-2019 00:14:22	17-Apr-2019 00:32:09	8405.74	8179.56
MAX_TOOL_SPEED	1500	17-Apr-2019 00:32:09	17-Apr-2019 00:41:24	8179.56	8010.97
MAX_TOOL_SPEED	1613	17-Apr-2019 00:41:24	17-Apr-2019 00:43:28	8010.97	7973.27
MAX_TOOL_SPEED	1694	17-Apr-2019 00:43:28	17-Apr-2019 00:47:32	7973.27	7898.77
MAX_TOOL_SPEED	1781	17-Apr-2019 00:47:32	17-Apr-2019 00:53:43	7898.77	7783.69
MAX_TOOL_SPEED	1657	17-Apr-2019 00:53:43	17-Apr-2019 00:55:45	7783.69	7744.53
MAX_TOOL_SPEED	1537	17-Apr-2019 00:55:45	17-Apr-2019 00:57:48	7744.53	7705.71
MAX_TOOL_SPEED	1695	17-Apr-2019 00:57:48	17-Apr-2019 00:59:51	7705.71	7666.11
MAX_TOOL_SPEED	1587	17-Apr-2019 00:59:51	17-Apr-2019 01:05:59	7666.11	7540.28
MAX_TOOL_SPEED	1686	17-Apr-2019 01:05:59	17-Apr-2019 01:37:40	7540.28	6894.03
MONO_WF_CHN	[SWMUM_M, SWMLM_M, SWMFM_M, SWMFL_M, SW90C_M, SW00C_M]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
MONO_WFN_CHN	[SWMUMN_M, SWMLMN_M, SWMFMN_M, SWMFLN_M, SW90CN_M, SW00CN_M]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
MSMT_LIST	[MUM, MLM, MFM, MFL, 90C, 00C]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
NUMMSMT	6	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
PROD_MASTUI	STD	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
RXSEL	[[On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On],	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03

	[On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On], [On, On, On, On, On, On], [On, On, On, On, On, On], [On, On, On, On, On, On], [On, On, On, On, On, On]]				
SAMINT	[10, 10, 10, 40, 40, 40]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
SERVICE_LIST	[STSTC, NMSTC, XDSTC, YDSTC, FMSTC, ANISO, NMATD, FMATD, CRV, BHC, PBHC]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
SNSR_WF_CHN	[RSWMUM, RSWMLM, RSWMFM, RSWMFL, RSW90C, RSW00C]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
SNSR_WFN_CHN	[SWMUMN, SWMLMN, SWMFMN, SWMFLN, SW90CN, SW00CN]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
SNSRSEL	[[On, On, On, On, On, On, On], [Off, Off, Off, Off, On, On], [On, On, On, On, On, On], [Off, Off, Off, Off, On, On], [On, On, On, On, On, On], [Off, Off, Off, Off, On, On], [On, On, On, On, On, On], [Off, Off, Off, Off, On, On]]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
TX_AMP	[THREEQUARTER, THREEQUARTER, FULL, FULL, FULL, FULL]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
TX_WF_SIGNAL	[PREDEFINED, PREDEFINED, PREDEFINED, PREDEFINED, PREDEFINED, PREDEFINED]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
TXSEL	[UM, LM, FM, FM, D90, D00]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
WF_CR_CHN	[WCRMUM, WCRMUM, WCRMFM, WCRMFL, WCR90C, WCR00C]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
WF_DEPTH_CHN	[WDMUM, WDMLM, WDMFM, WDMFL, WD90C, WD00C]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
WF_QI_CHN	[WQMUM, WQMLM, WQMFM, WQMFL, WQ90C, WQ00C]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
WFSEL	[mp_mf_d, mp_mf_d, mp_mf_d, mp_if_d, dp_cd_d, dp_cd_d]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03

Pass Log[4]:Up

ACQ_DOMAIN	[UMMF, LMMF, FMMF]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
ACQCTL	[1, 1, 1]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
COMPCTL	[MZIPA, MZIPA, MZIPA]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DHMODALCTL	[OFF, OFF, OFF]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIGDEL	[0, 0, 0]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIGDT	[0, 0, 0]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIGTIME	[2550, 2550, 5110]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIIN_WF_CHN	[. ,]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIIN_WFN_CHN	[. ,]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIOF_WF_CHN	[. ,]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIOF_WFN_CHN	[. ,]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
GNINT	[2550, 2550, 5110]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
MAX_LOG_SPEED	1800	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
MAX_TOOL_SPEED	2660	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
MONO_WF_CHN	[SWMUM_M, SWMLM_M, SWMFM_M]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
MONO_WFN_CHN	[SWMUMN_M, SWMLMN_M, SWMFMN_M]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
MSMT_LIST	[MUM, MLM, MFM]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
NUMMSMT	3	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
PROD_MASTUI	BHC	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
RXSEL	[[Off, On, On], [Off, On, On],	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35

	[Off, On, On], [Off, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, Off, Off], [On, Off, Off], [On, Off, Off], [On, Off, Off]]				
SAMINT	[10, 10, 10]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
SERVICE_LIST	[NMSTC, FMSTC, NMATD, FMATD, CRV, BHC, PBHC]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
SNSR_WF_CHN	[RSWMUM, RSWMLM, RSWMFM]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
SNSR_WFN_CHN	[SWMUMN, SWMLMN, SWMFMN]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
SNSRSEL	[[On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off]]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
TX_AMP	[THREEQUARTER, THREEQUARTER, FULL]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
TX_WF_SIGNAL	[PREDEFINED, PREDEFINED, PREDEFINED]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
TXSEL	[UM, LM, FM]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
WF_CR_CHN	[WCRMUM, WCRMMLM, WCRFMF]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
WF_DEPTH_CHN	[WDMUM, WDMLM, WDMFM]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
WF_QI_CHN	[WQMUM, WQMLM, WQMFM]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
WFSEL	[mp_mf_d, mp_mf_d, mp_mf_d]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35

Pass Log[5]:Up					
ACQ_DOMAIN	[UMMF, LMMF, FMMF]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
ACQCTL	[1, 1, 1]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
COMPCTL	[MZIPA, MZIPA, MZIPA]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DHMODALCTL	[OFF, OFF, OFF]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIGDEL	[0, 0, 0]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIGDT	[0, 0, 0]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIGTIME	[2550, 2550, 5110]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIIN_WF_CHN	[, ,]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIIN_WFN_CHN	[, ,]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIOF_WF_CHN	[, ,]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIOF_WFN_CHN	[, ,]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
GNINT	[2550, 2550, 5110]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
MAX_LOG_SPEED	2798	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
MAX_TOOL_SPEED	2798	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
MONO_WF_CHN	[SWMUM_M, SWMLM_M, SWMFM_M]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
MONO_WFN_CHN	[SWMUMN_M, SWMLMN_M, SWMFMN_M]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
MSMT_LIST	[MUM, MLM, MFM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
NUMMSMT	3	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
PROD_MASTUI	BHC	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
RXSEL	[[Off, On, On], [Off, On, On], [Off, On, On], [Off, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, Off, Off], [On, Off, Off], [On, Off, Off], [On, Off, Off]]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
SAMINT	[10, 10, 10]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
SERVICE_LIST	[NMSTC, FMSTC, NMATD, FMATD, CRV, BHC, PBHC]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
SNSR_WF_CHN	[RSWMUM, RSWMLM, RSWMFM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
SNSR_WFN_CHN	[SWMUMN, SWMLMN,	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35

	SWMFMN]				
SNSRSEL	[[On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off]]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
TX_AMP	[THREEQUARTER, THREEQUARTER, FULL]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
TX_WF_SIGNAL	[PREDEFINED, PREDEFINED, PREDEFINED]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
TXSEL	[UM, LM, FM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
WF_CR_CHN	[WCRMUM, WCRMLM, WCRMFM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
WF_DEPTH_CHN	[WDMUM, WDMLM, WDMFM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
WF_QI_CHN	[WQMUM, WQMLM, WQMFM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
WFSEL	[mp_mf_d, mp_mf_d, mp_mf_d]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35

Pass Log[7]:Up					
ACQ_DOMAIN	[UMMF, LMMF, FMMF]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
ACQCTL	[1, 1, 1]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
COMPCTL	[MZIPA, MZIPA, MZIPA]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DHMODALCTL	[OFF, OFF, OFF]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIGDEL	[0, 0, 0]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIGDT	[0, 0, 0]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIGTIME	[2550, 2550, 5110]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIIN_WF_CHN	[, ,]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIIN_WFN_CHN	[, ,]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIOF_WF_CHN	[, ,]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIOF_WFN_CHN	[, ,]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
GNINT	[2550, 2550, 5110]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
MAX_LOG_SPEED	2786	17-Apr-2019 03:20:28	17-Apr-2019 03:56:36	3892.35	2592.37
MAX_LOG_SPEED	2638	17-Apr-2019 03:56:36	17-Apr-2019 03:58:57	2592.37	2536.85
MAX_TOOL_SPEED	2786	17-Apr-2019 03:20:28	17-Apr-2019 03:56:36	3892.35	2592.37
MAX_TOOL_SPEED	2638	17-Apr-2019 03:56:36	17-Apr-2019 03:58:57	2592.37	2536.85
MONO_WF_CHN	[SWMUM_M, SWMLM_M, SWMFM_M]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
MONO_WFN_CHN	[SWMUMN_M, SWMLMN_M, SWMFMN_M]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
MSMT_LIST	[MUM, MLM, MFM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
NUMMSMT	3	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
PROD_MASTUI	BHC	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
RXSEL	[[Off, On, On], [Off, On, On], [Off, On, On], [Off, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, Off, Off], [On, Off, Off], [On, Off, Off], [On, Off, Off]]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
SAMINT	[10, 10, 10]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
SERVICE_LIST	[NMSTC, FMSTC, NMATD, FMATD, CRV, BHC, PBHC]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
SNSR_WF_CHN	[RSWMUM, RSWMLM, RSWMFM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
SNSR_WFN_CHN	[SWMUMN, SWMLMN, SWMFMN]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
SNSRSEL	[[On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off]]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
TX_AMP	[THREEQUARTER, THREEQUARTER, FULL]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
TX_WF_SIGNAL	[PREDEFINED, PREDEFINED,	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85

	PREDEFINED]				
TXSEL	[UM, LM, FM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
WF_CR_CHN	[WCRMUM, WCRMLM, WCRMFM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
WF_DEPTH_CHN	[WDMUM, WDMLM, WDMFM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
WF_QI_CHN	[WQMUM, WQMLM, WQMFM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
WFSEL	[mp_mf_d, mp_mf_d, mp_mf_d]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85

All depth are at tool zero.

BHC

MAIN PASS 5"=100'

Software Version

Acquisition System	Version
Maxwell 2019	9.0.106845.3100

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1D	Log[3]:Up	Up	6894.03 ft	8405.74 ft	17-Apr-2019 12:14:22 AM	17-Apr-2019 1:37:40 AM	ON	3.65 ft	Yes
1D	Log[4]:Up	Up	5441.37 ft	6894.67 ft	17-Apr-2019 1:39:53 AM	17-Apr-2019 2:20:25 AM	ON	4.17 ft	Yes
1D	Log[5]:Up	Up	3870.32 ft	5490.70 ft	17-Apr-2019 2:28:00 AM	17-Apr-2019 3:08:21 AM	ON	0.00 ft	Yes
1D	Log[7]:Up	Up	2536.46 ft	3940.71 ft	17-Apr-2019 3:20:28 AM	17-Apr-2019 3:58:57 AM	ON	2.60 ft	Yes

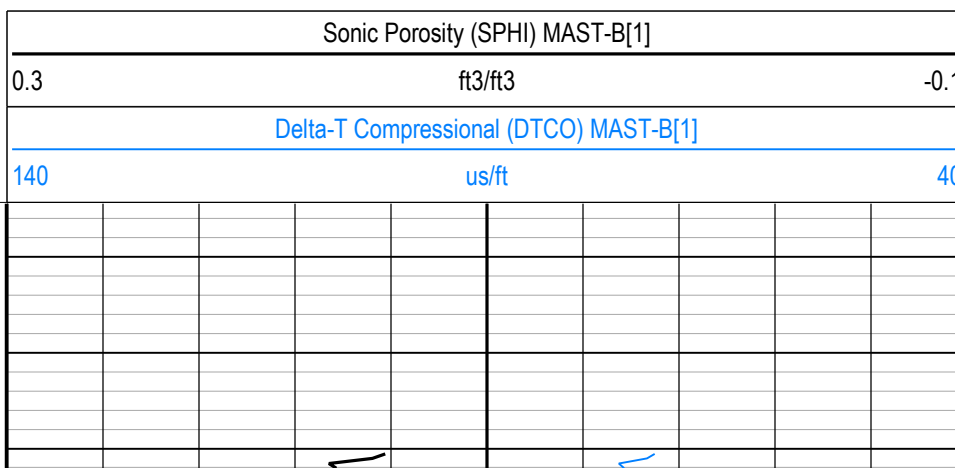
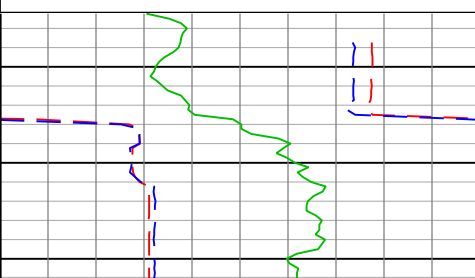
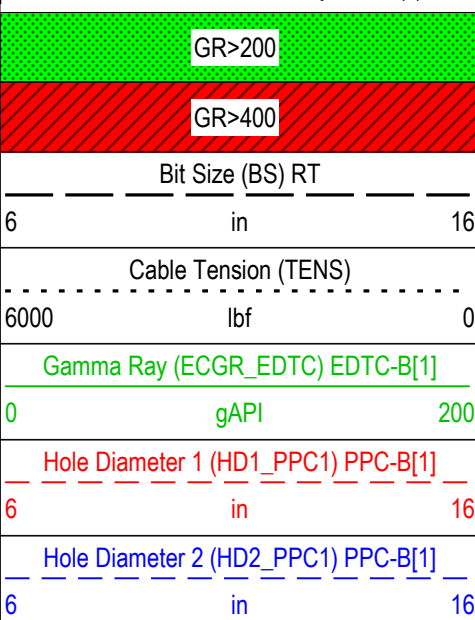
All depths are referenced to toolstring zero

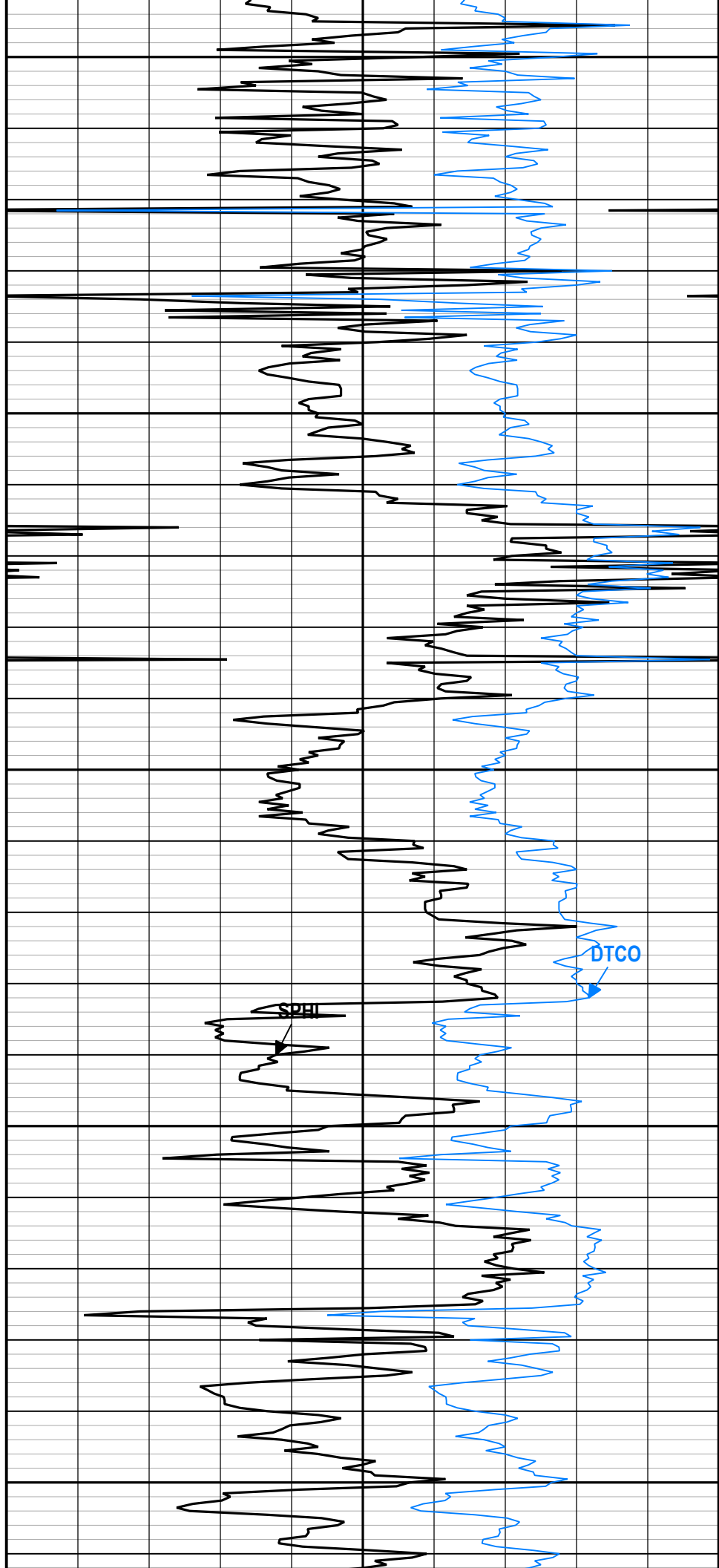
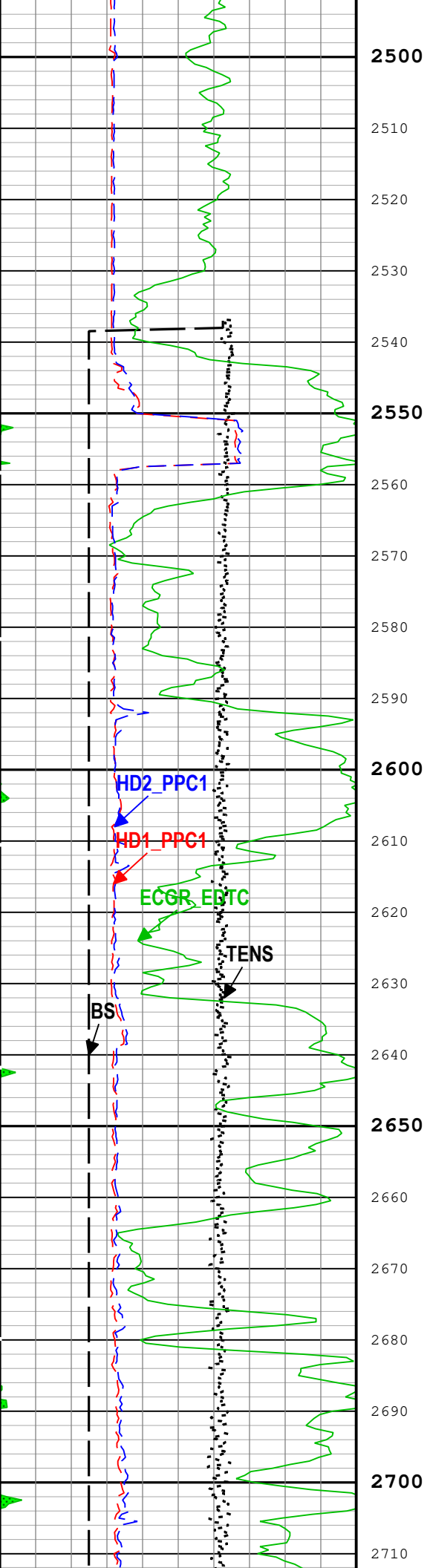
Log

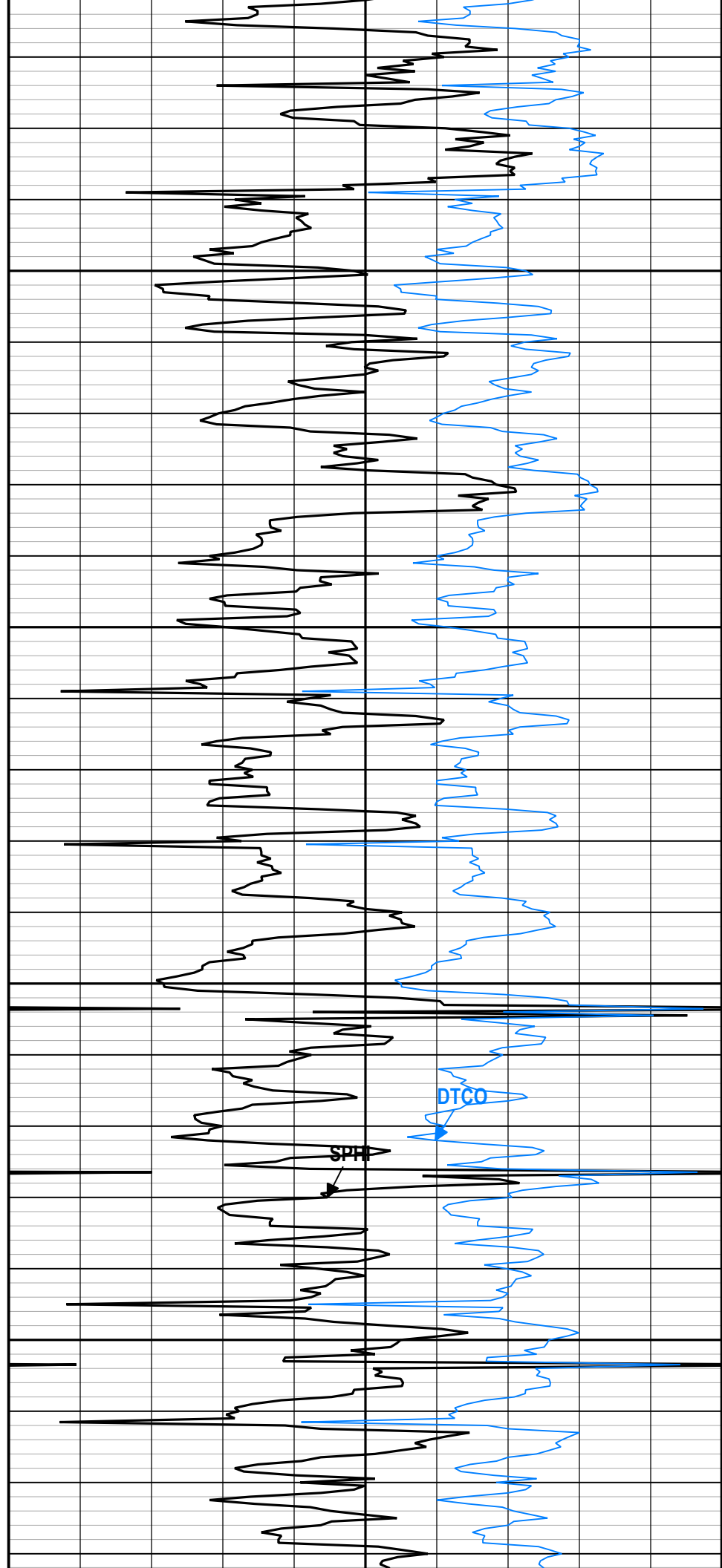
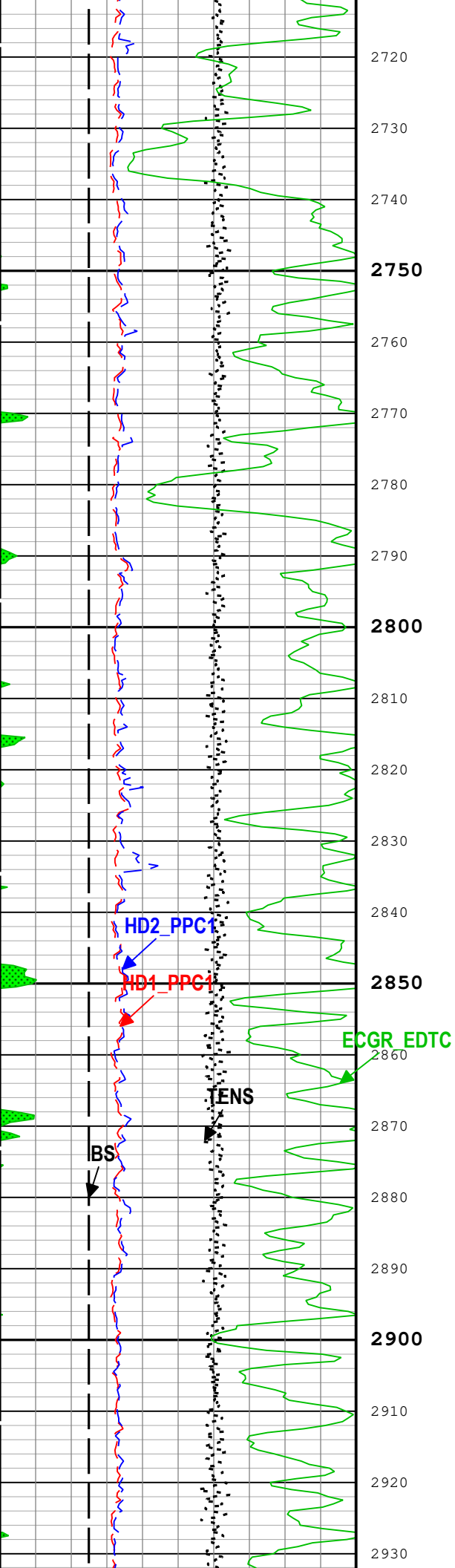
Company:North East Natural Energy LLC Well:Boggess 17H
BHC:S023

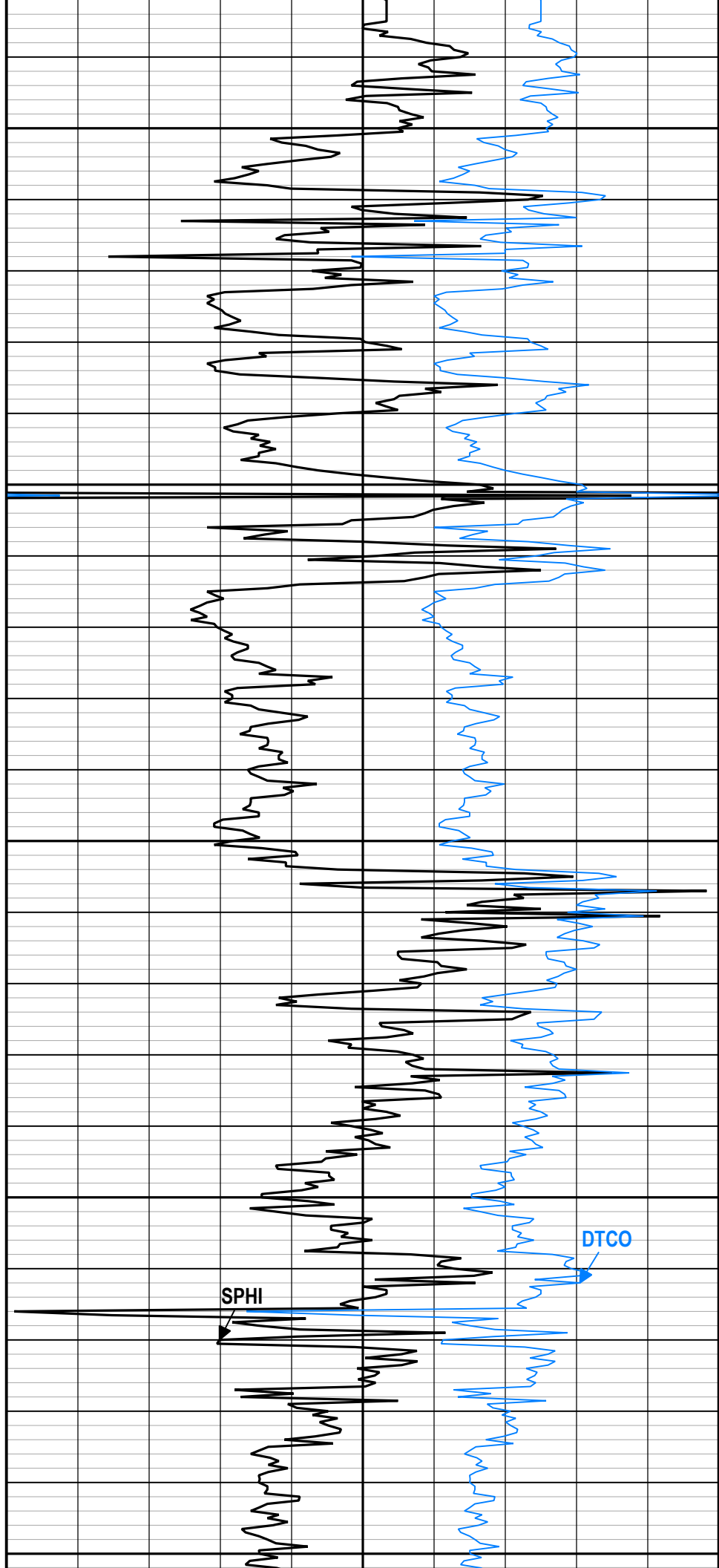
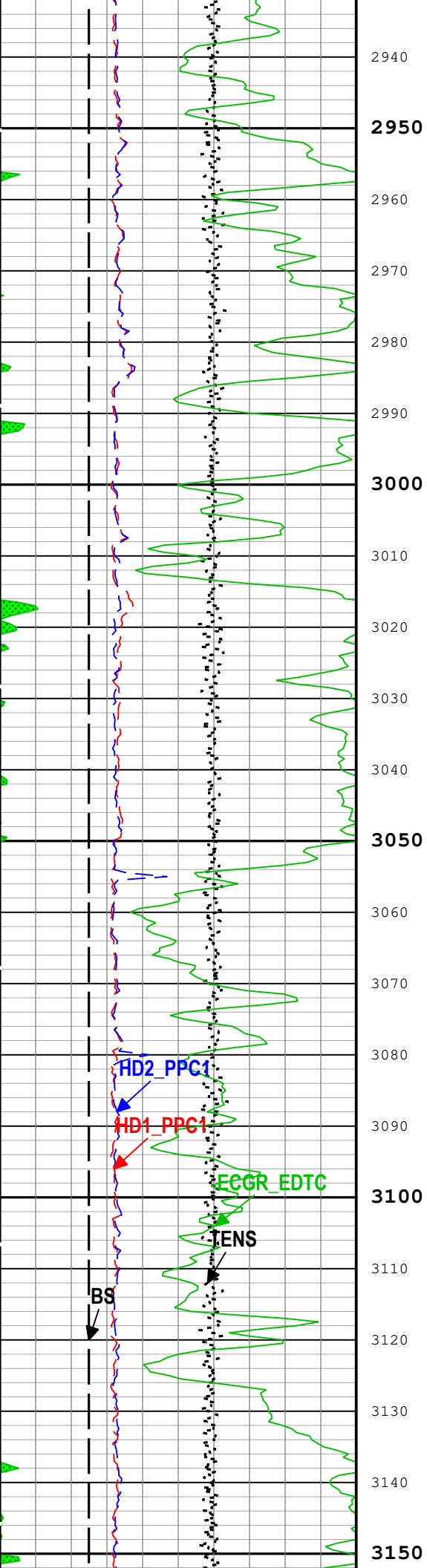
Description: MAST_SONI_BHC Format: Log (BRADFORD MSIP BHC) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 17-Apr-2019 05:33:00

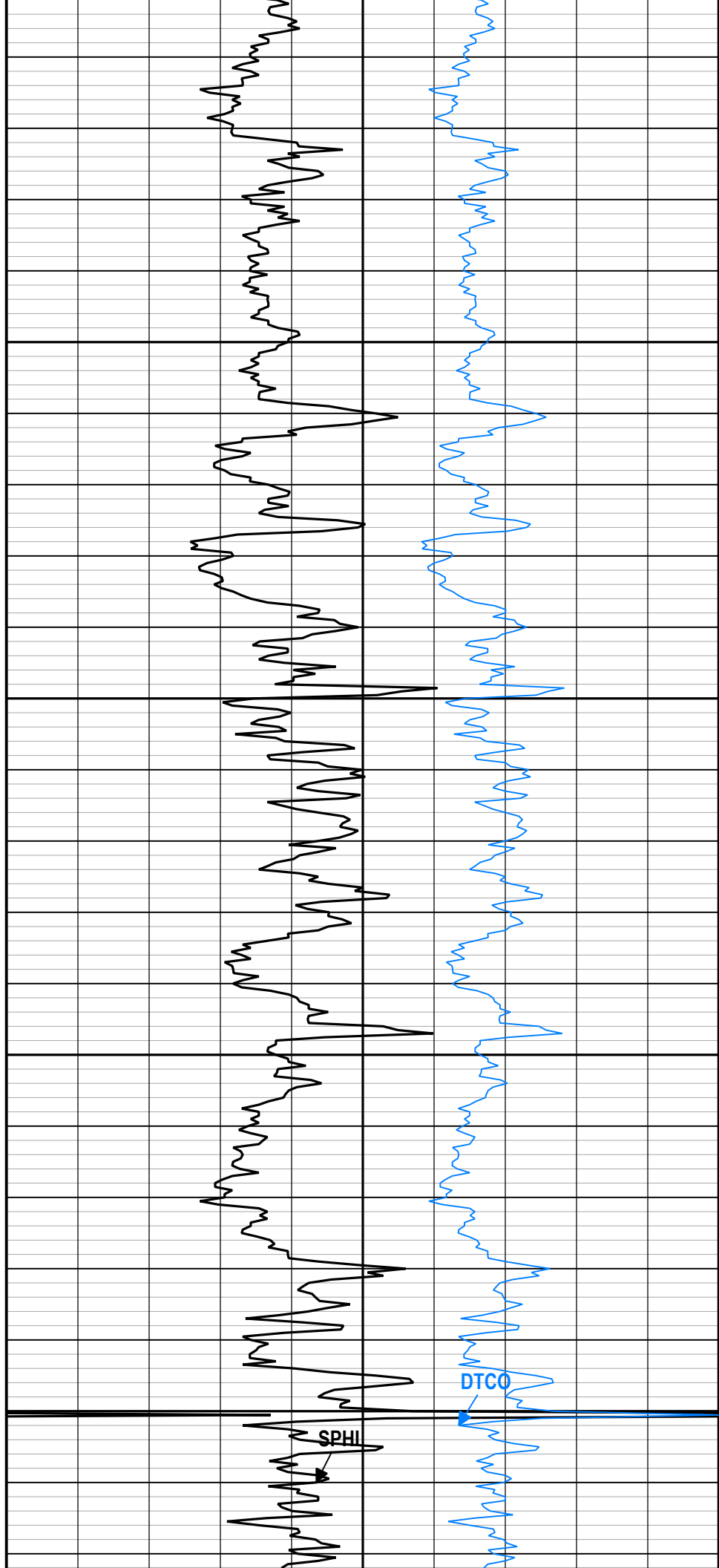
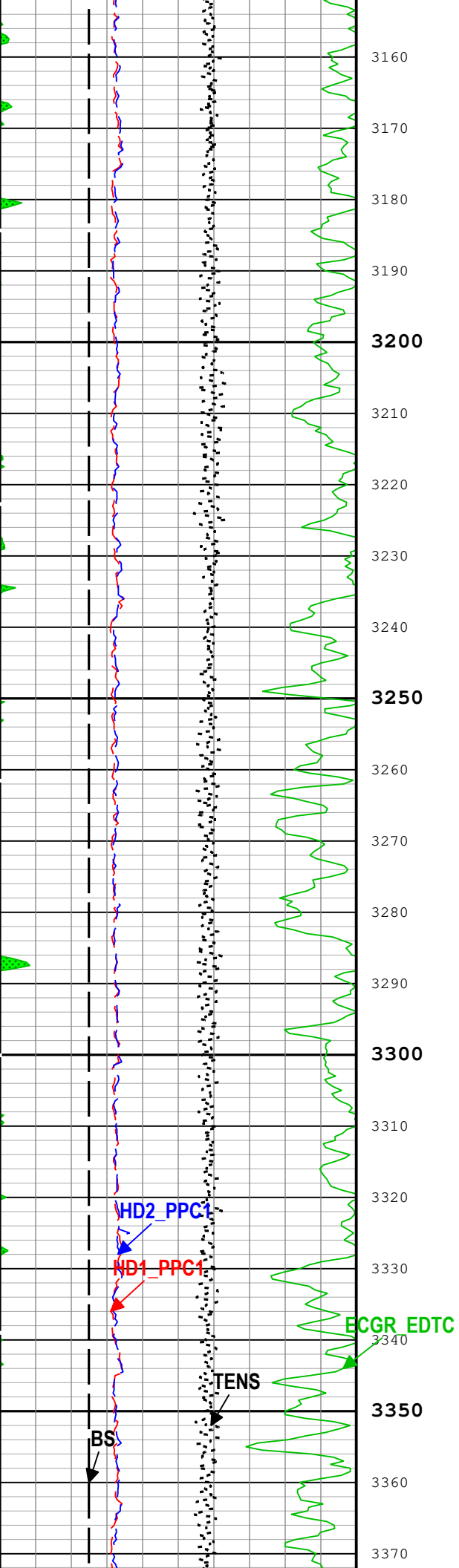
TIME 1900 - Time Marked every 60.00 (s)

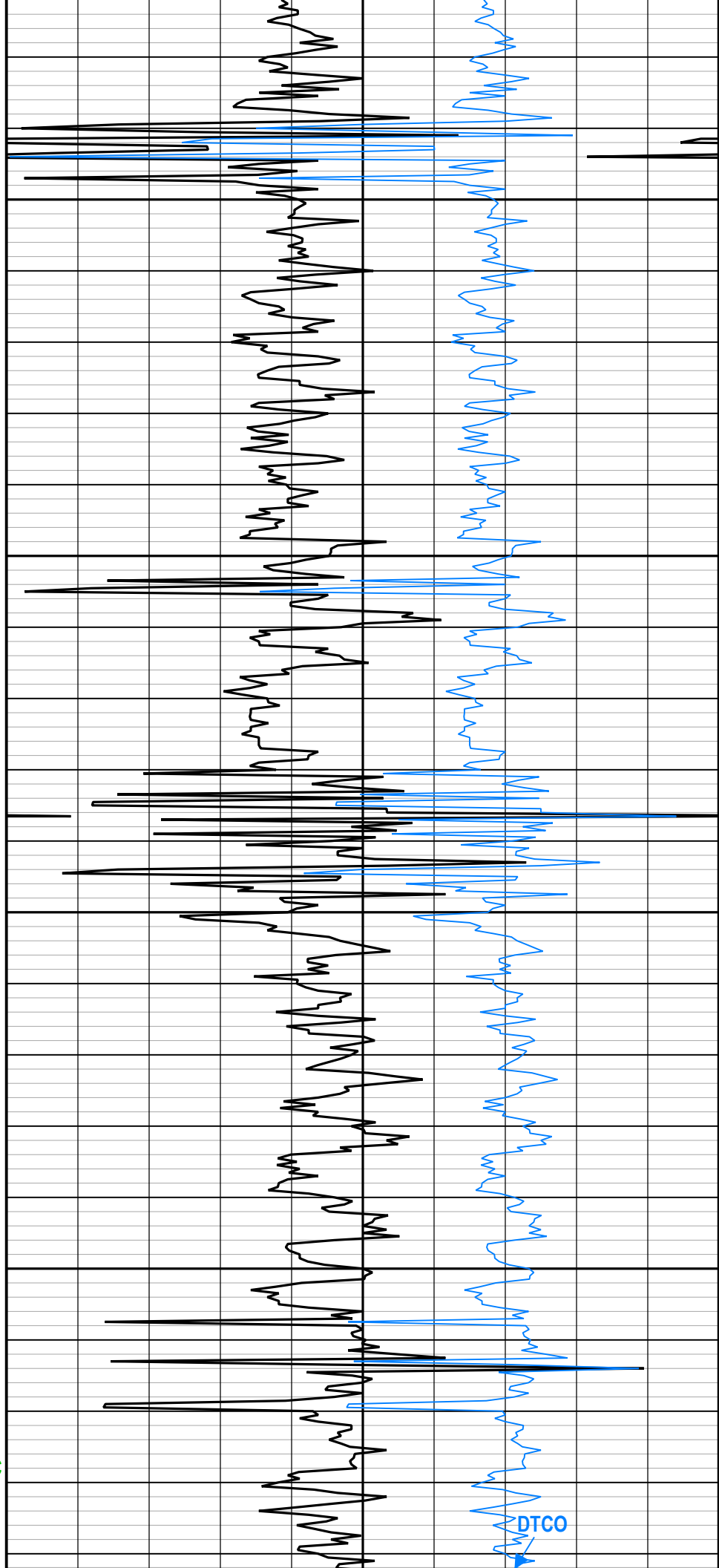
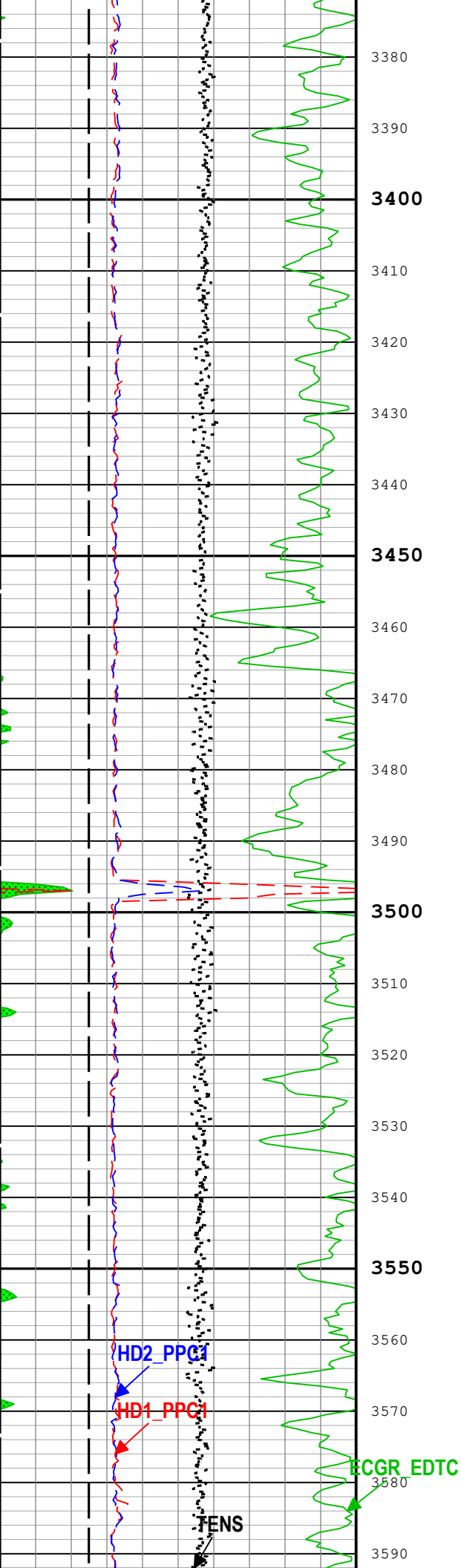


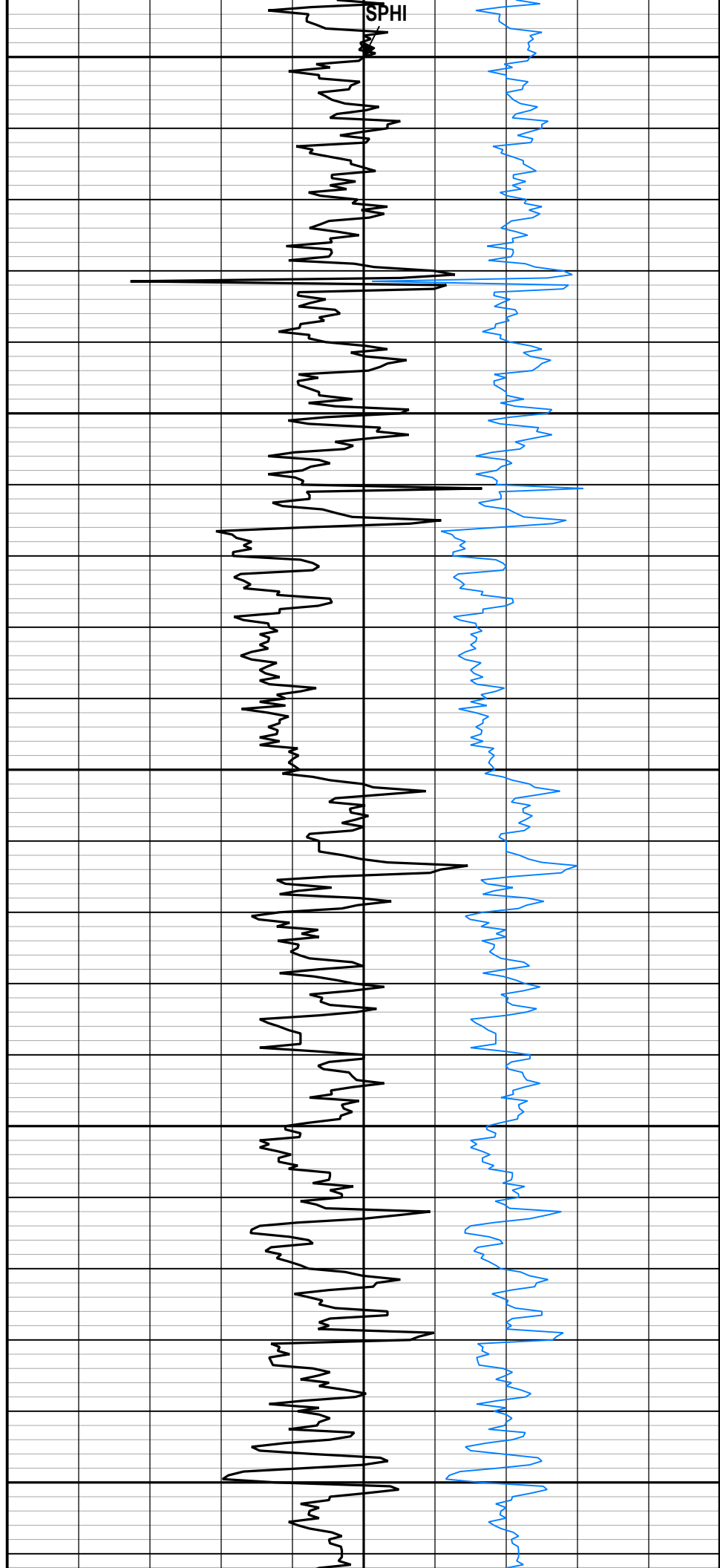
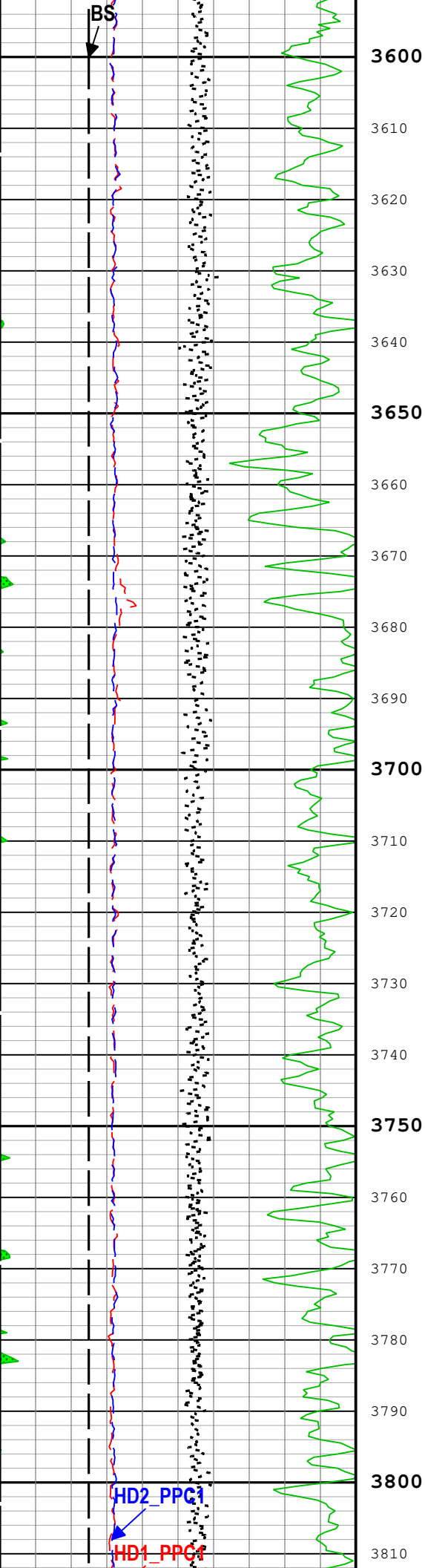


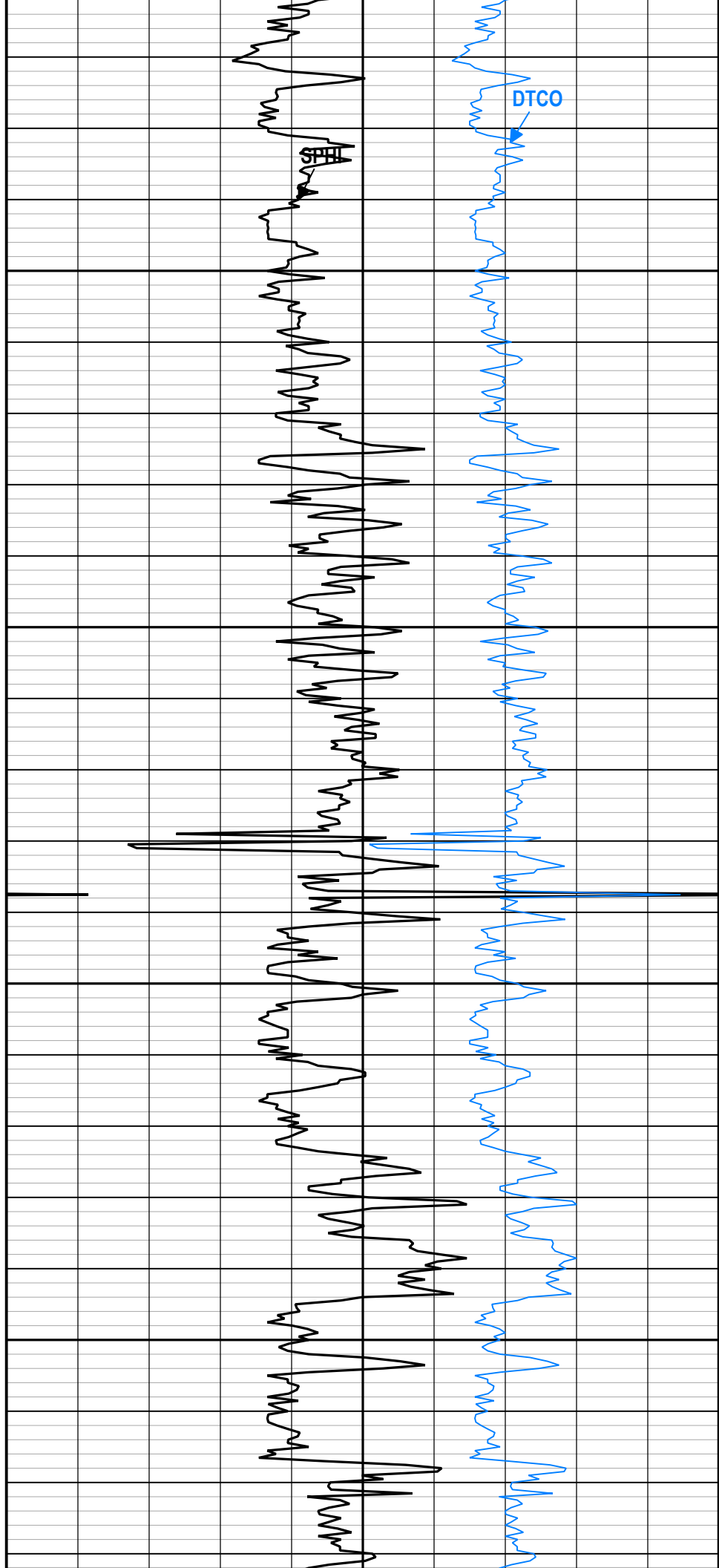
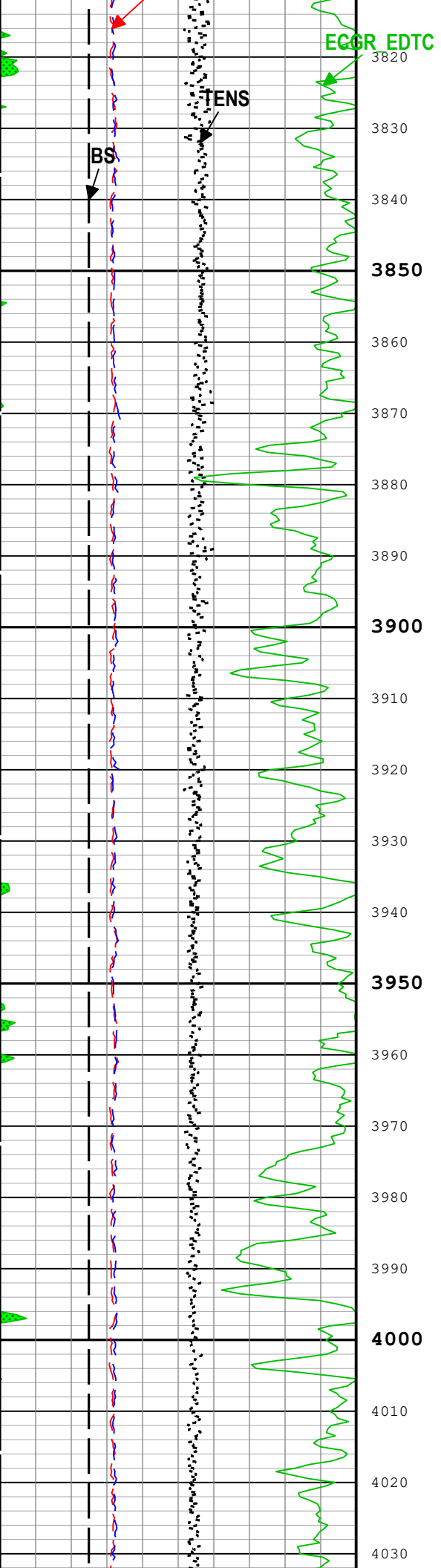


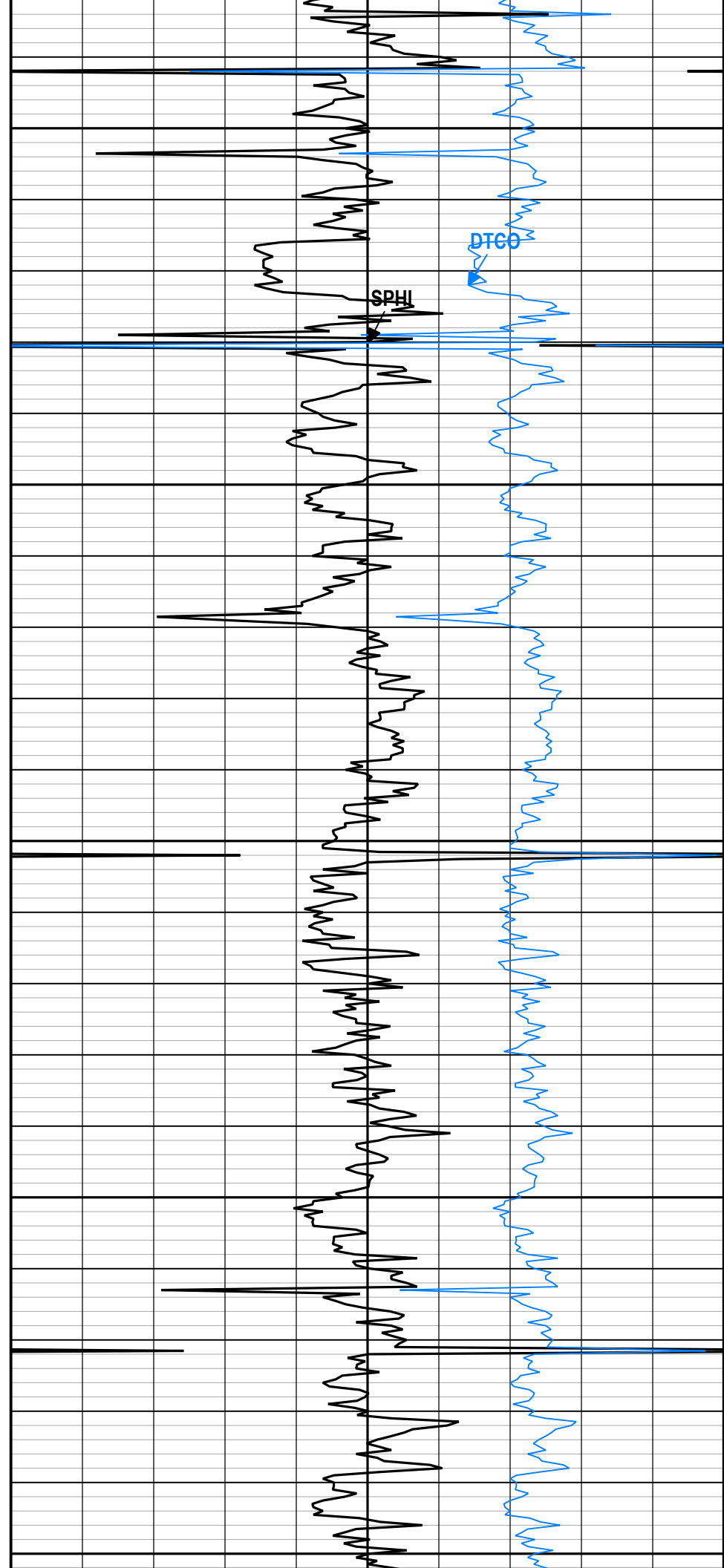
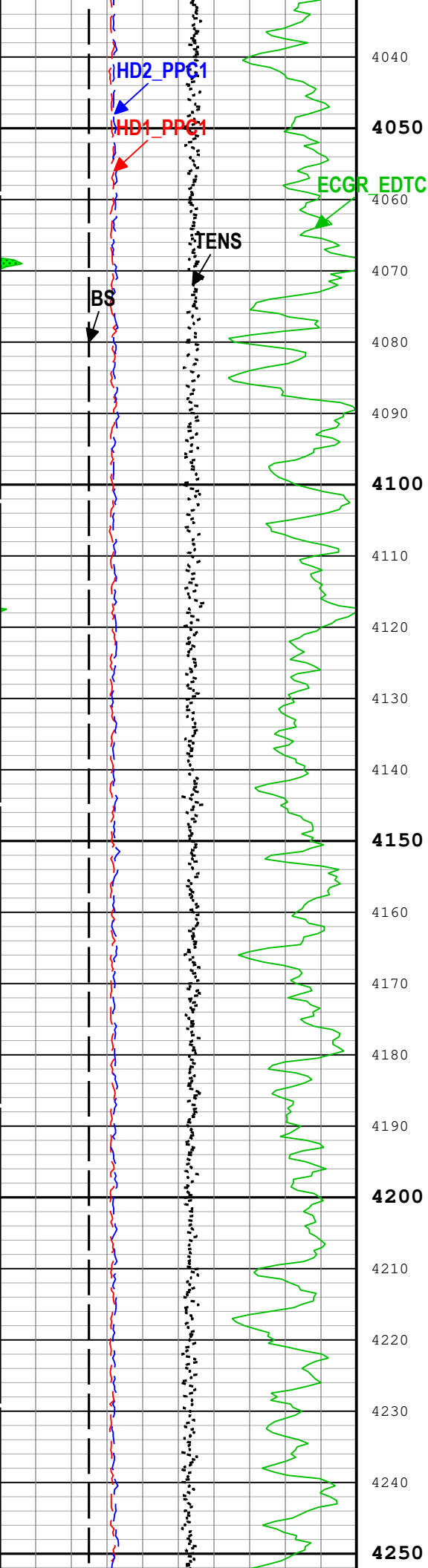


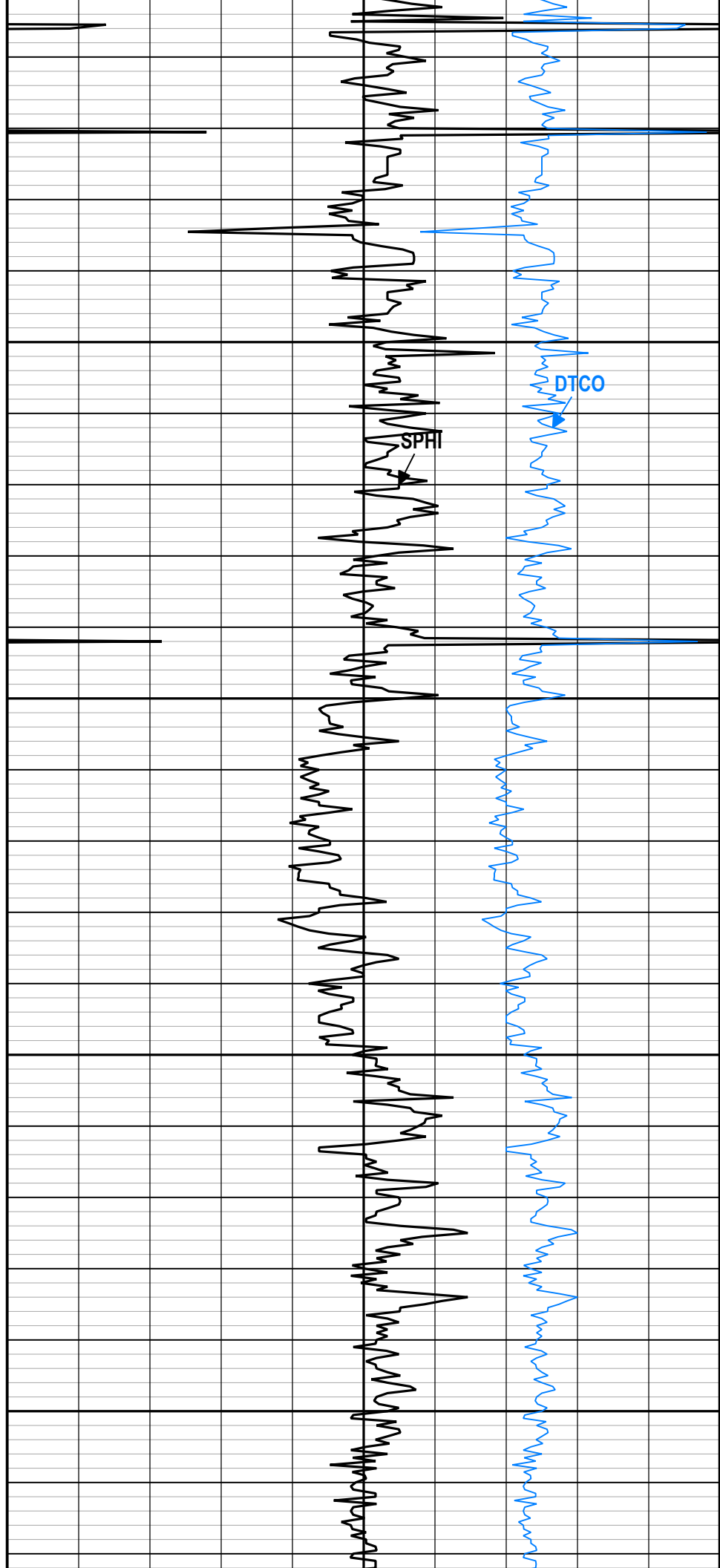
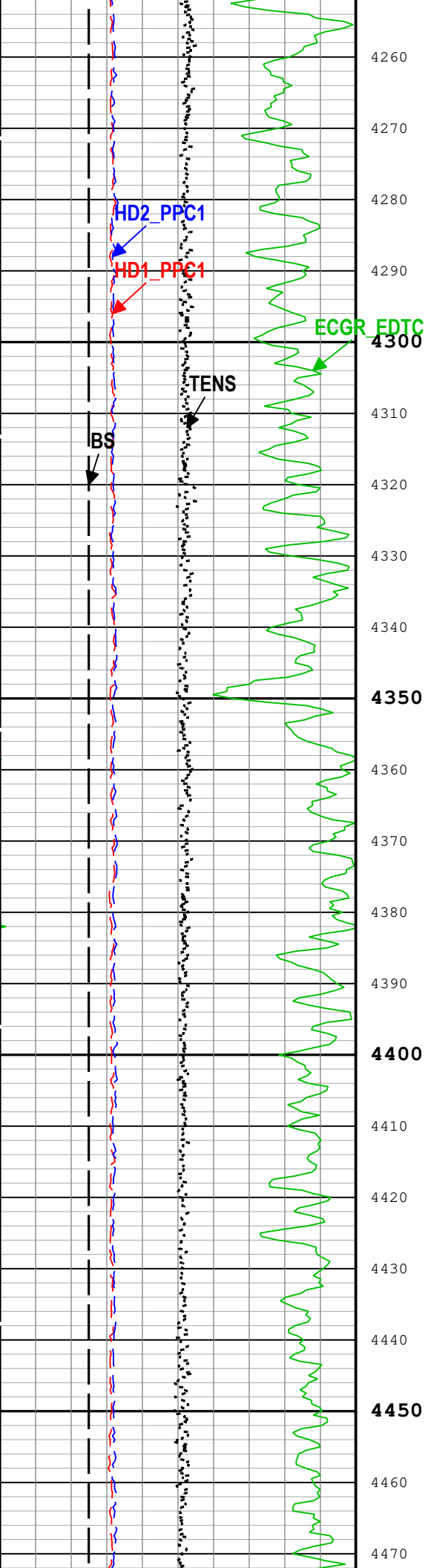


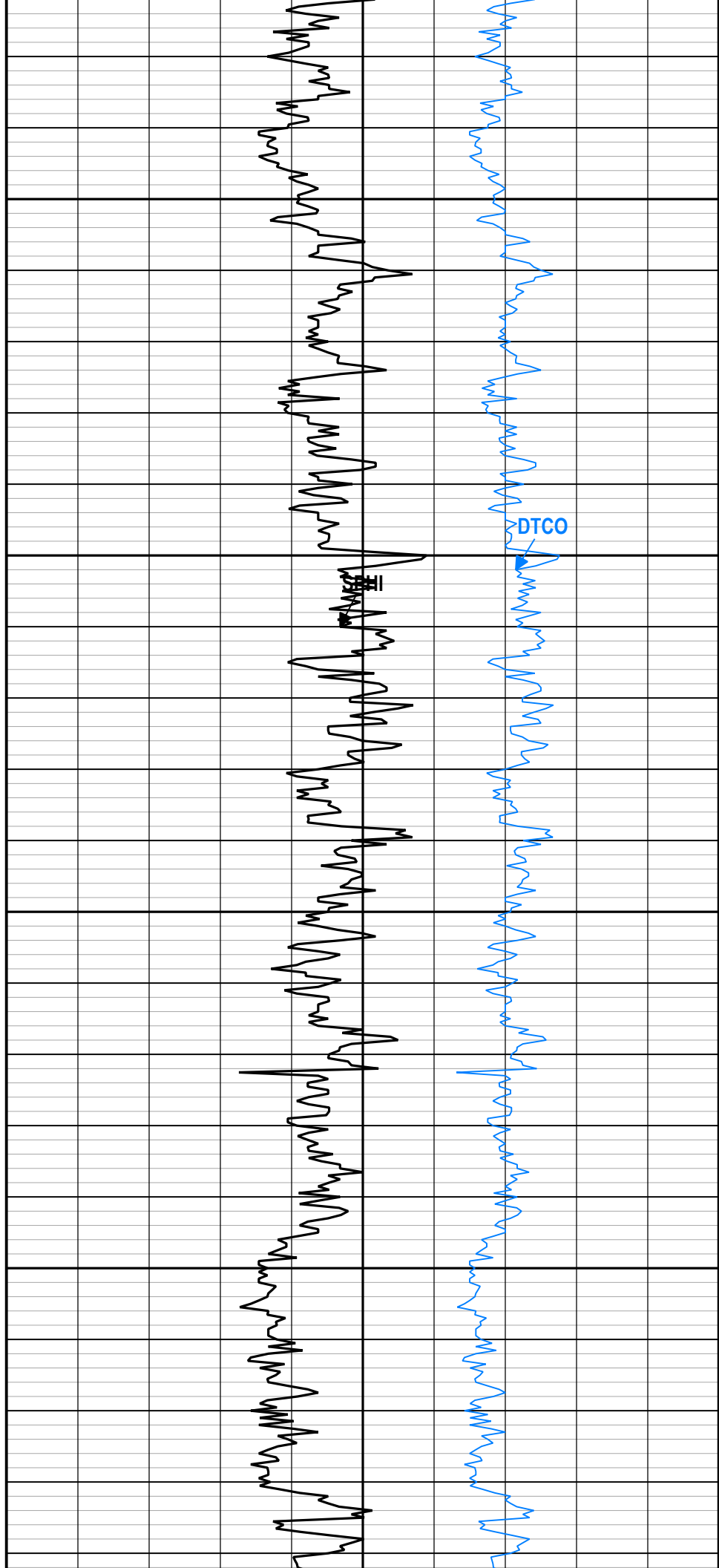
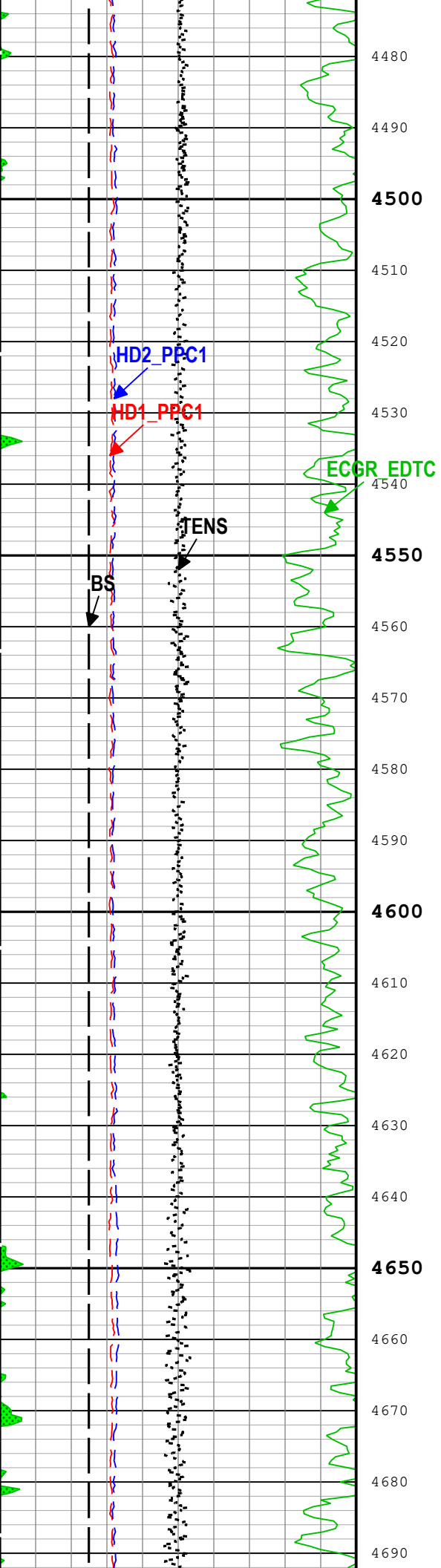


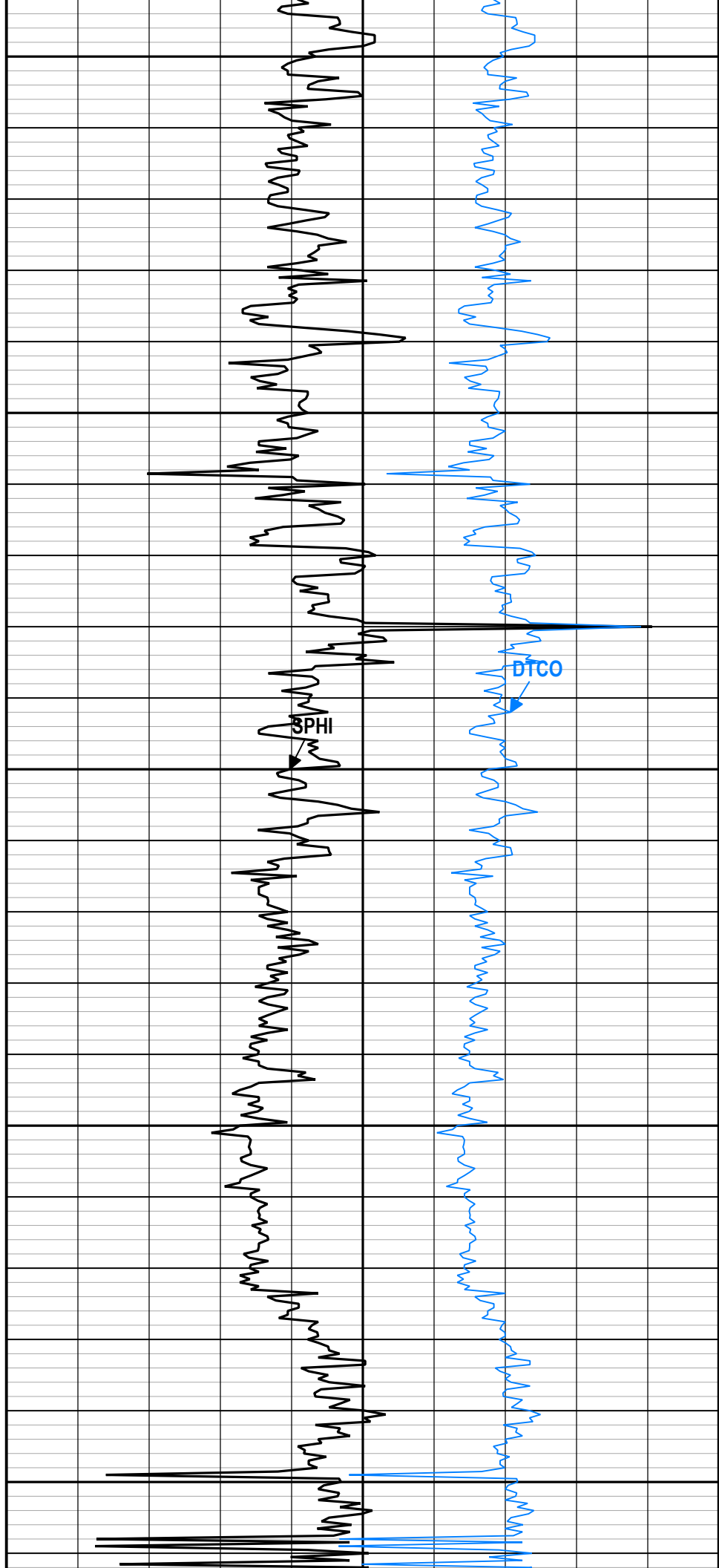
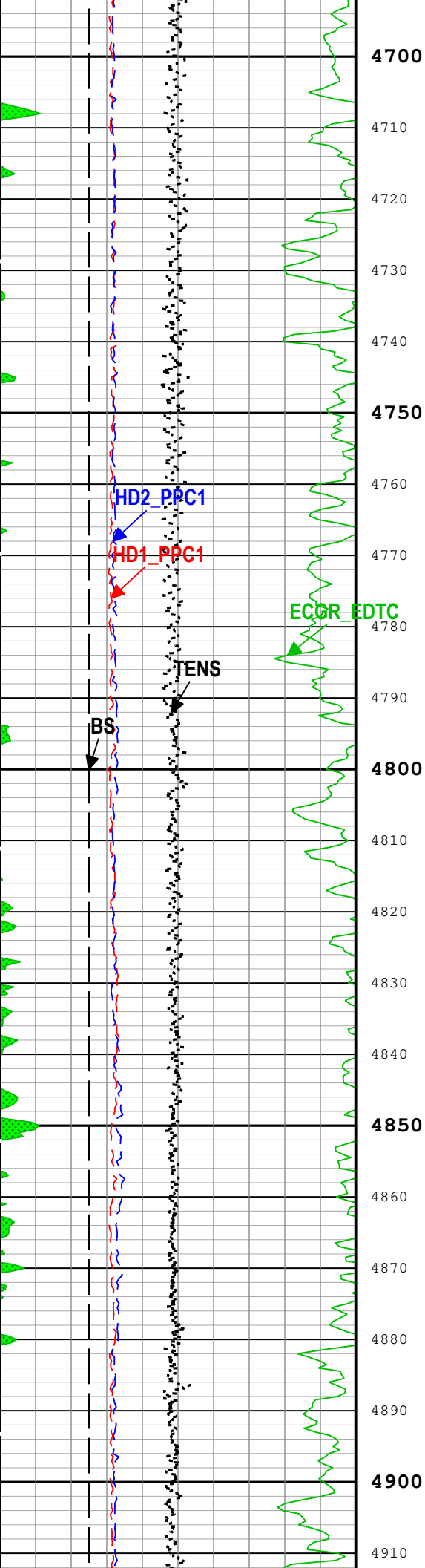


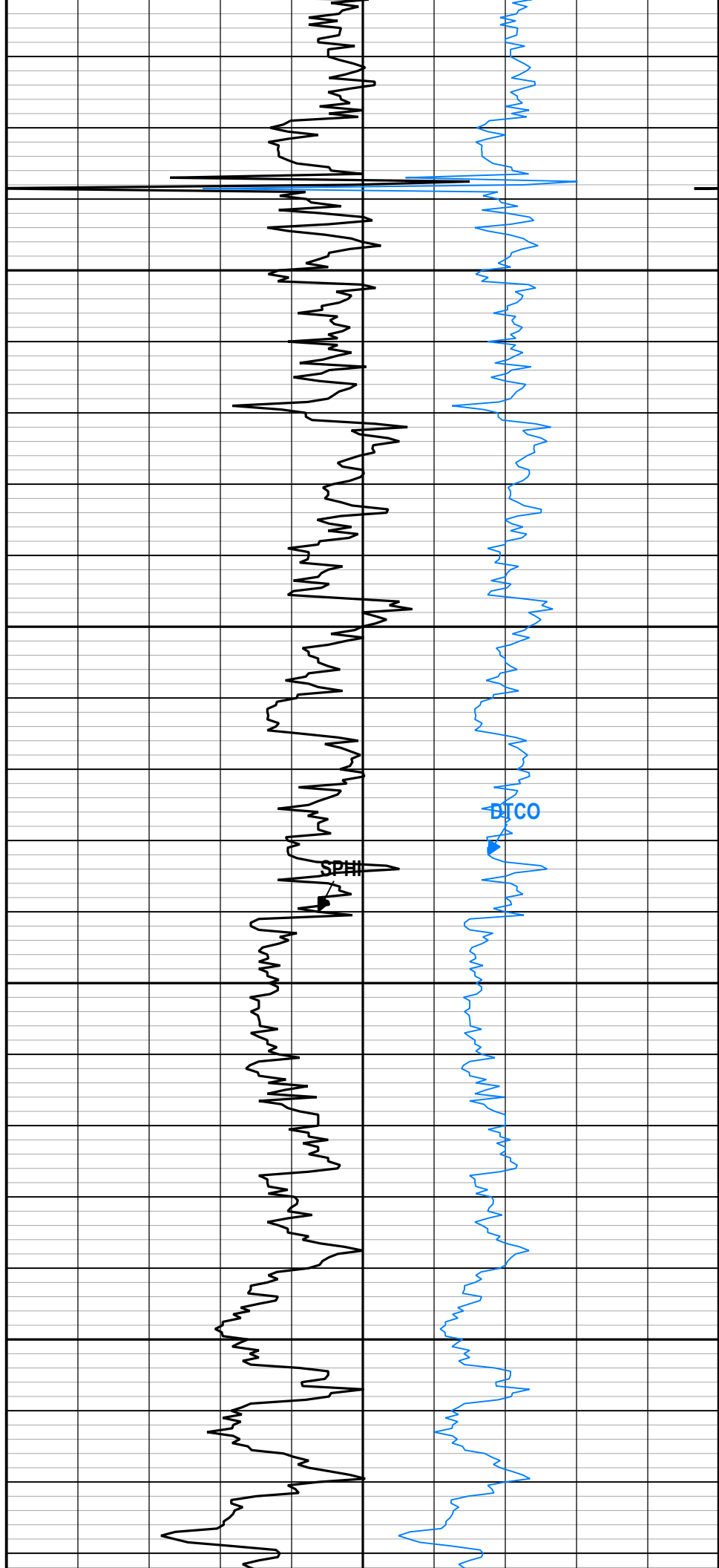
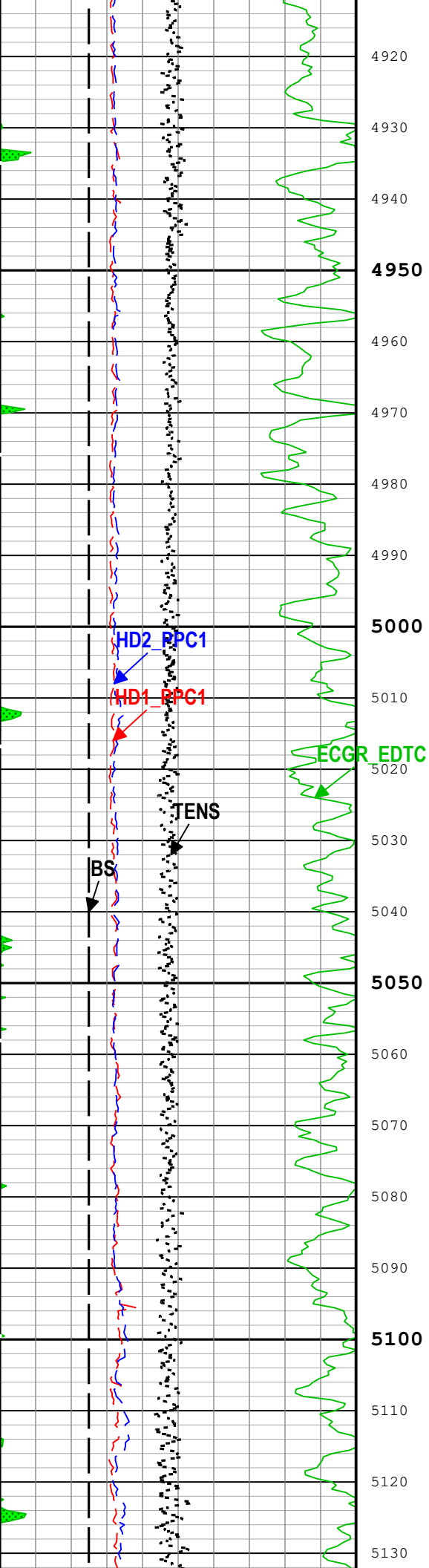


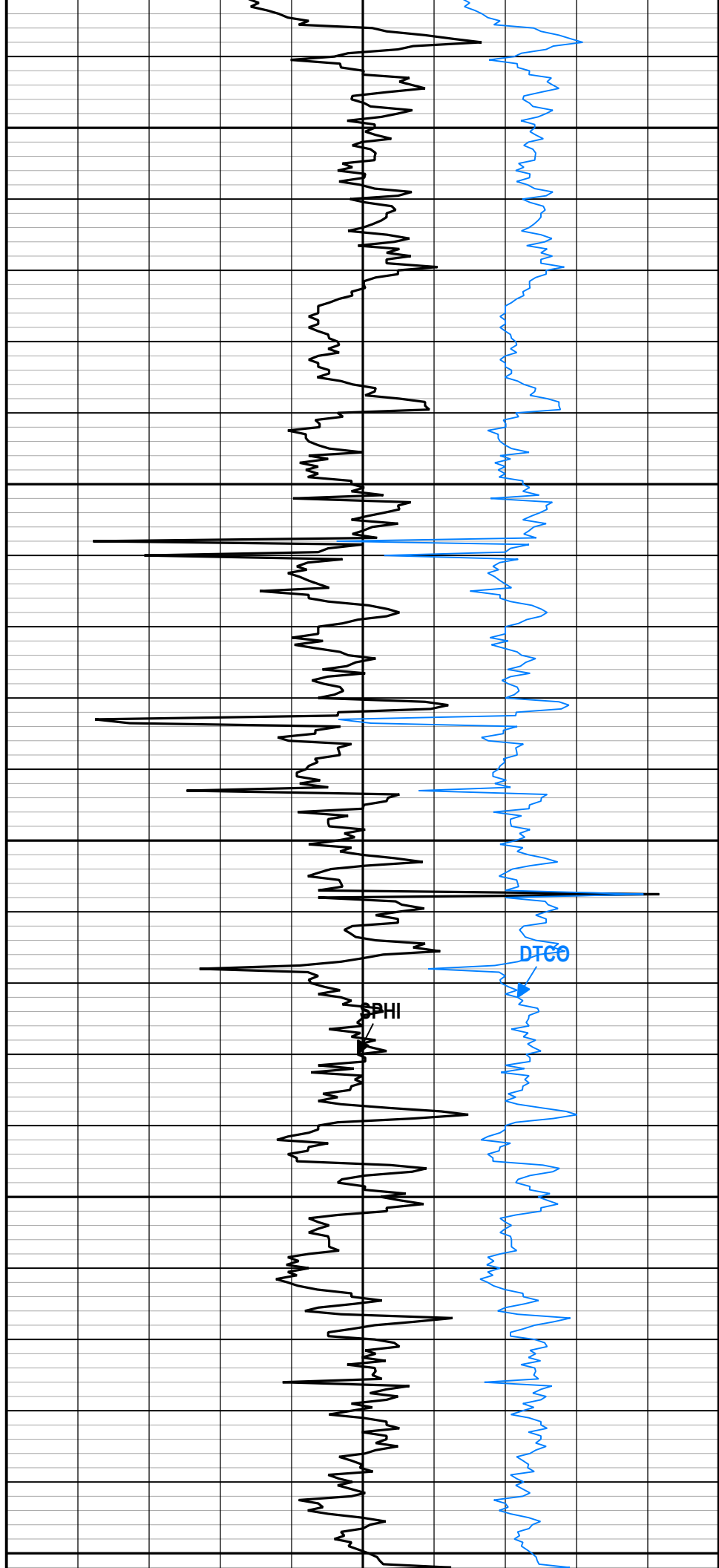
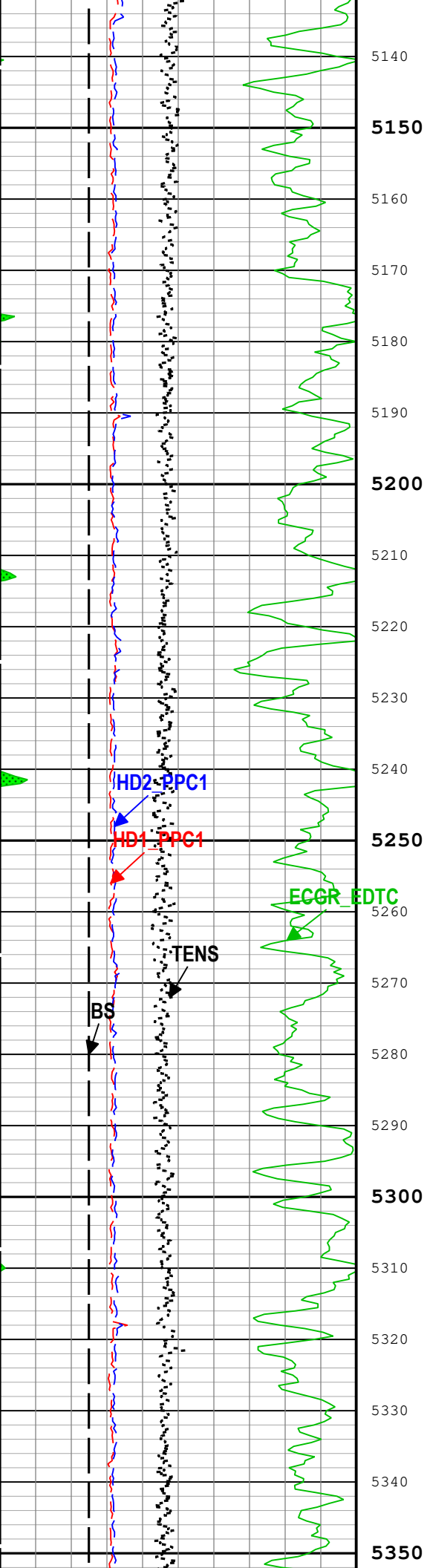


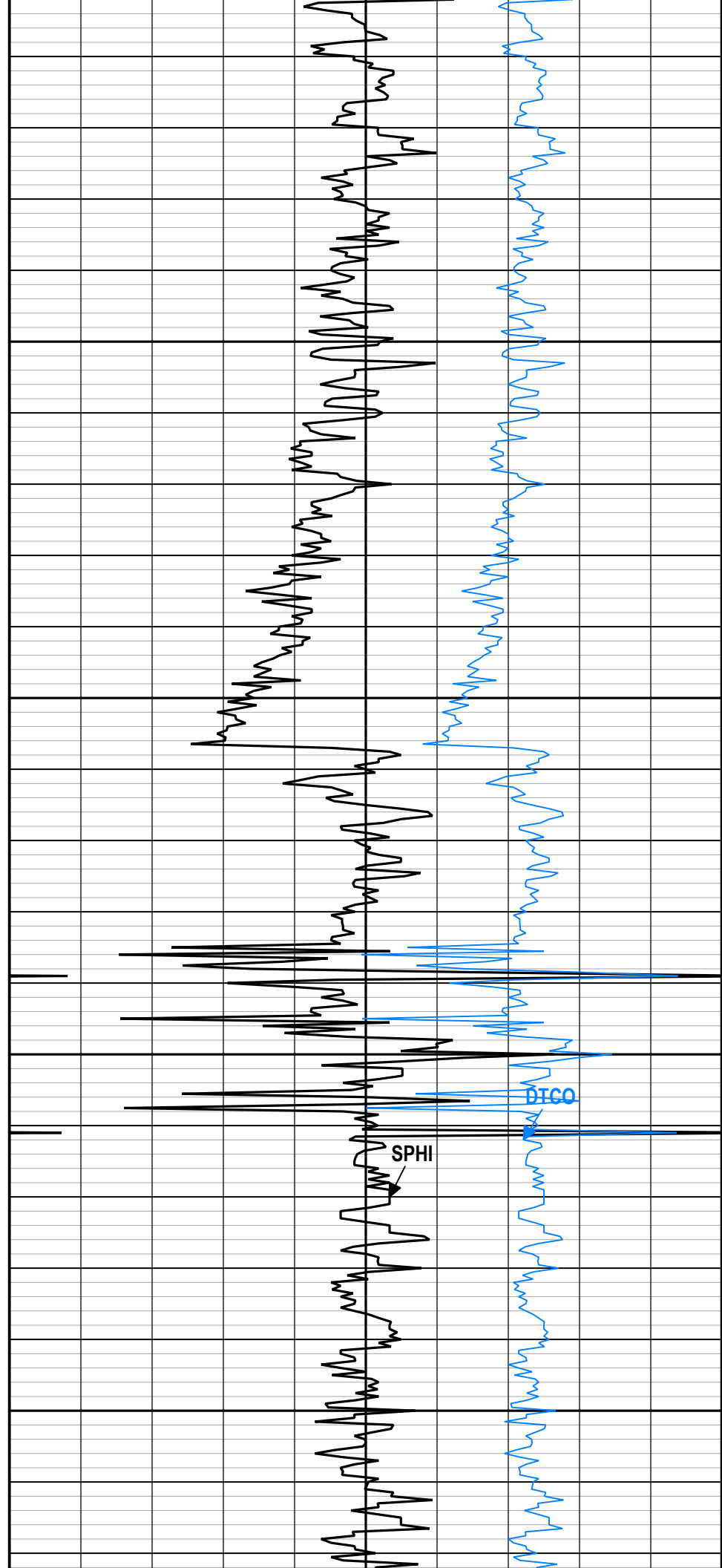
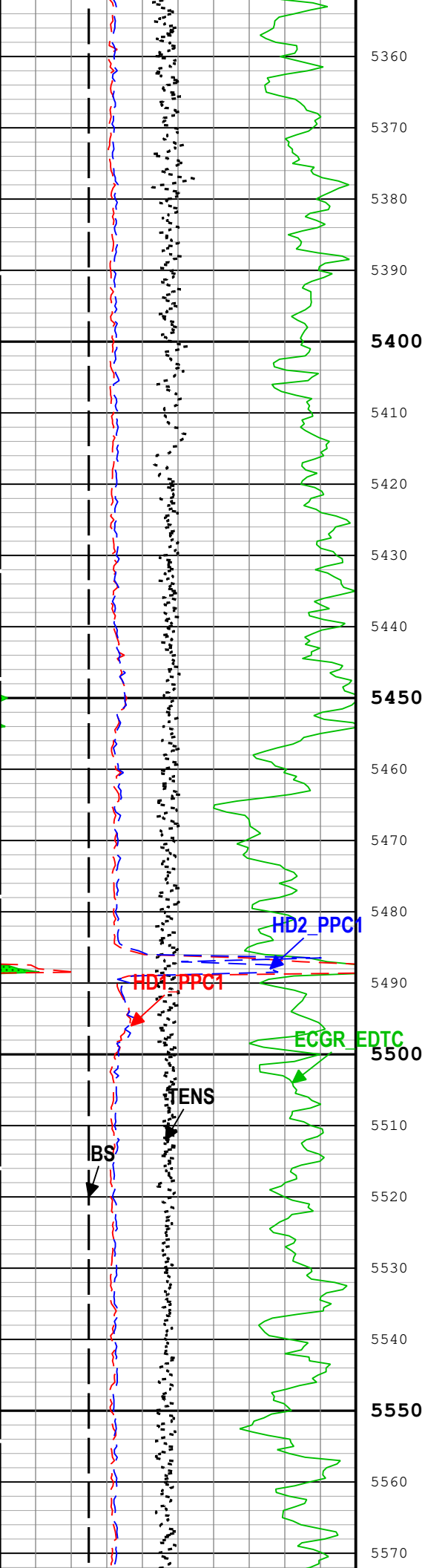


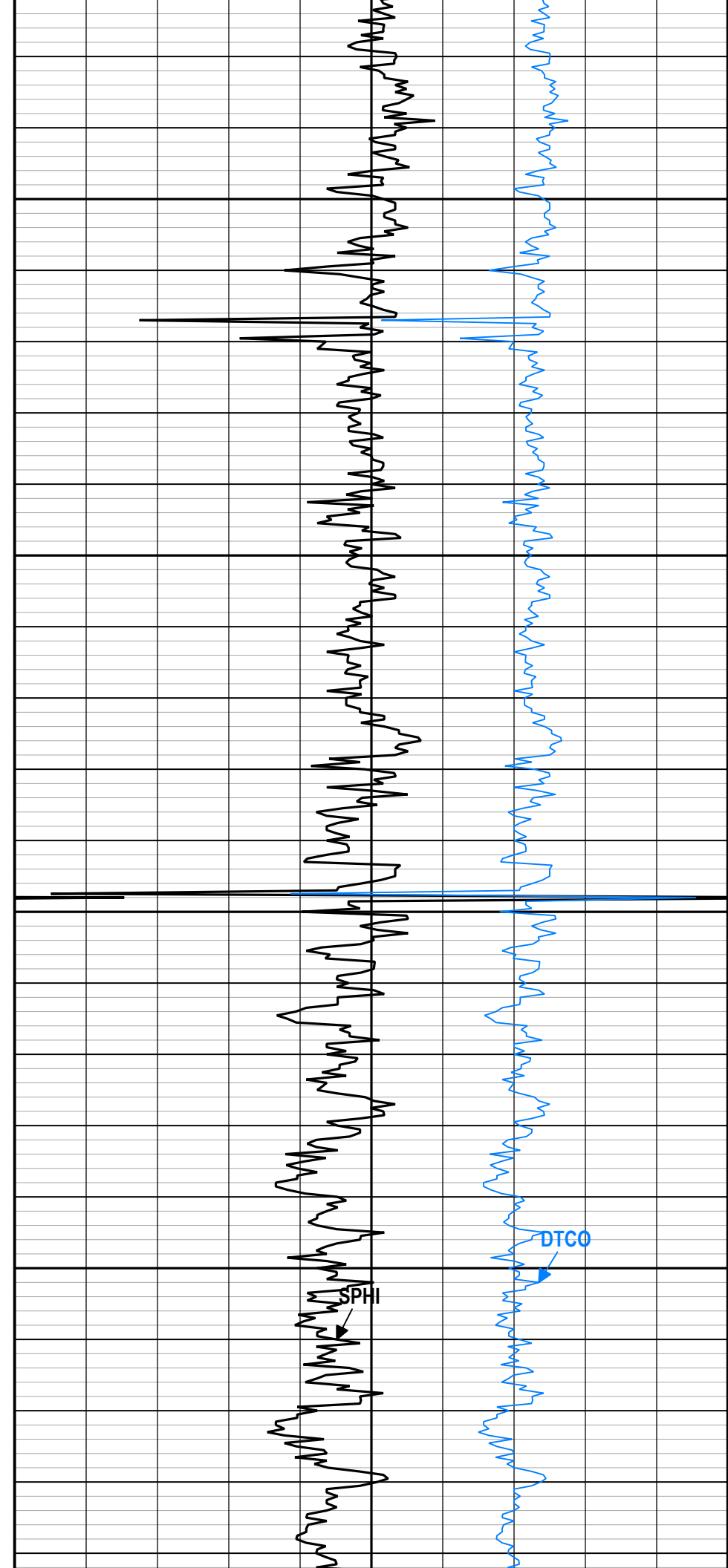
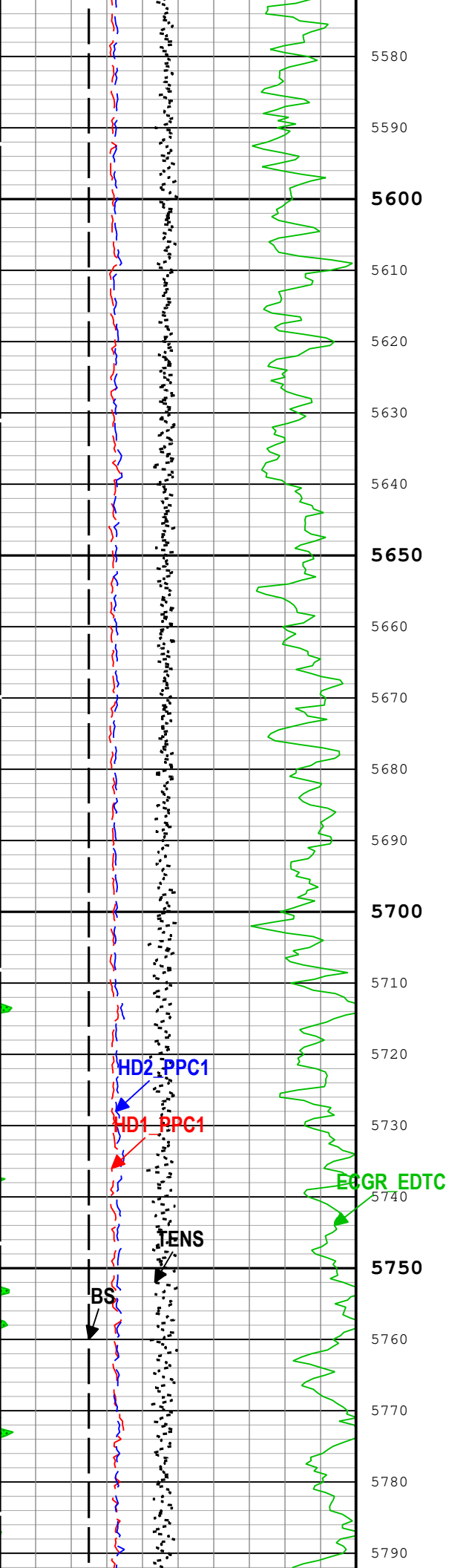


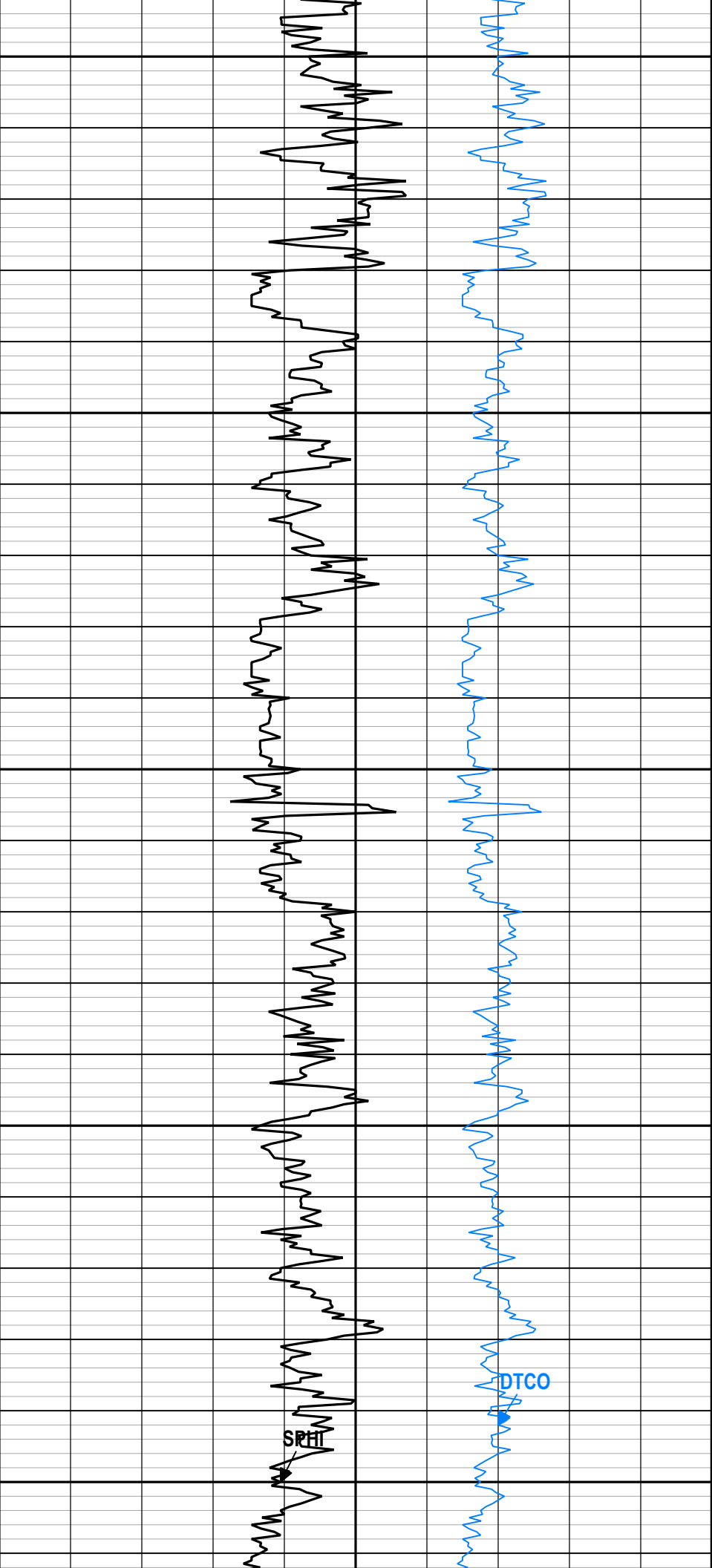
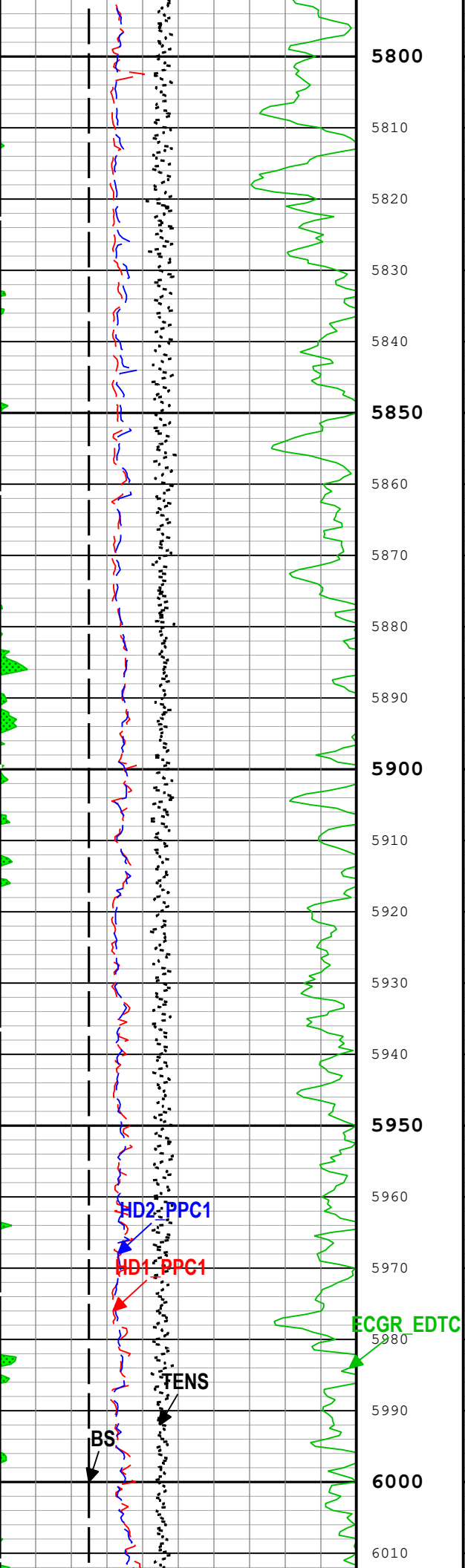


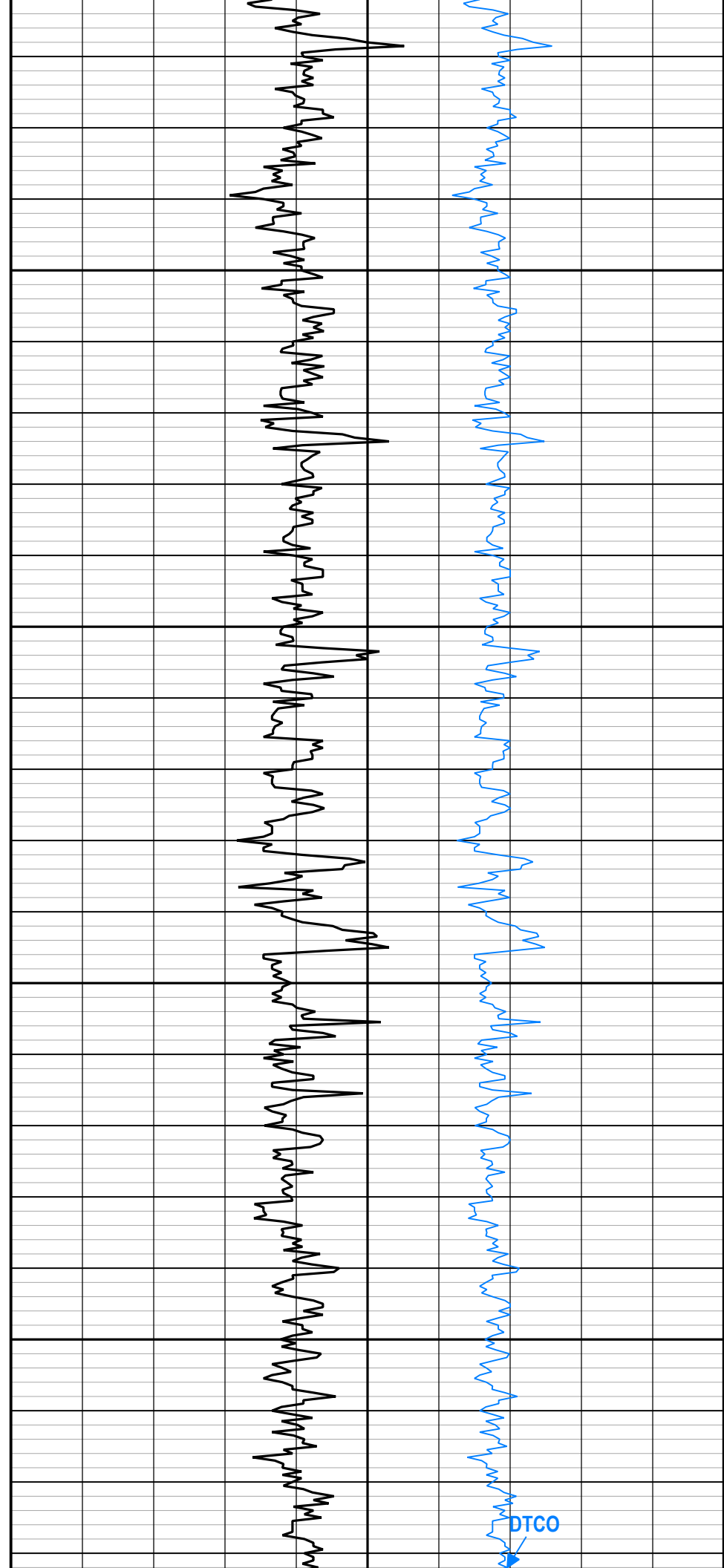
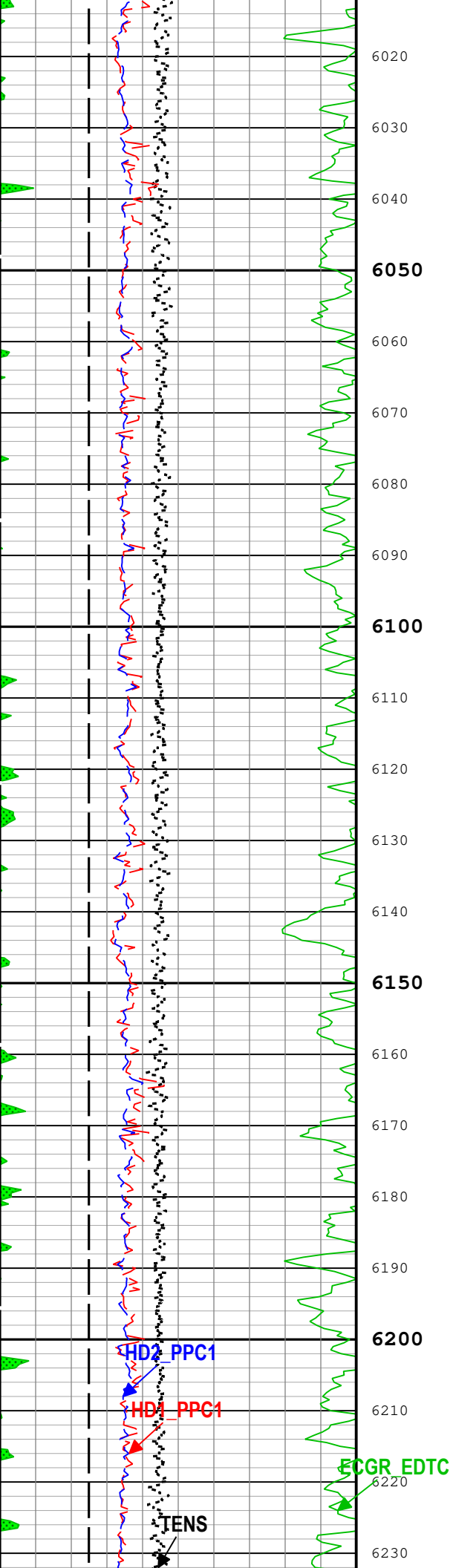


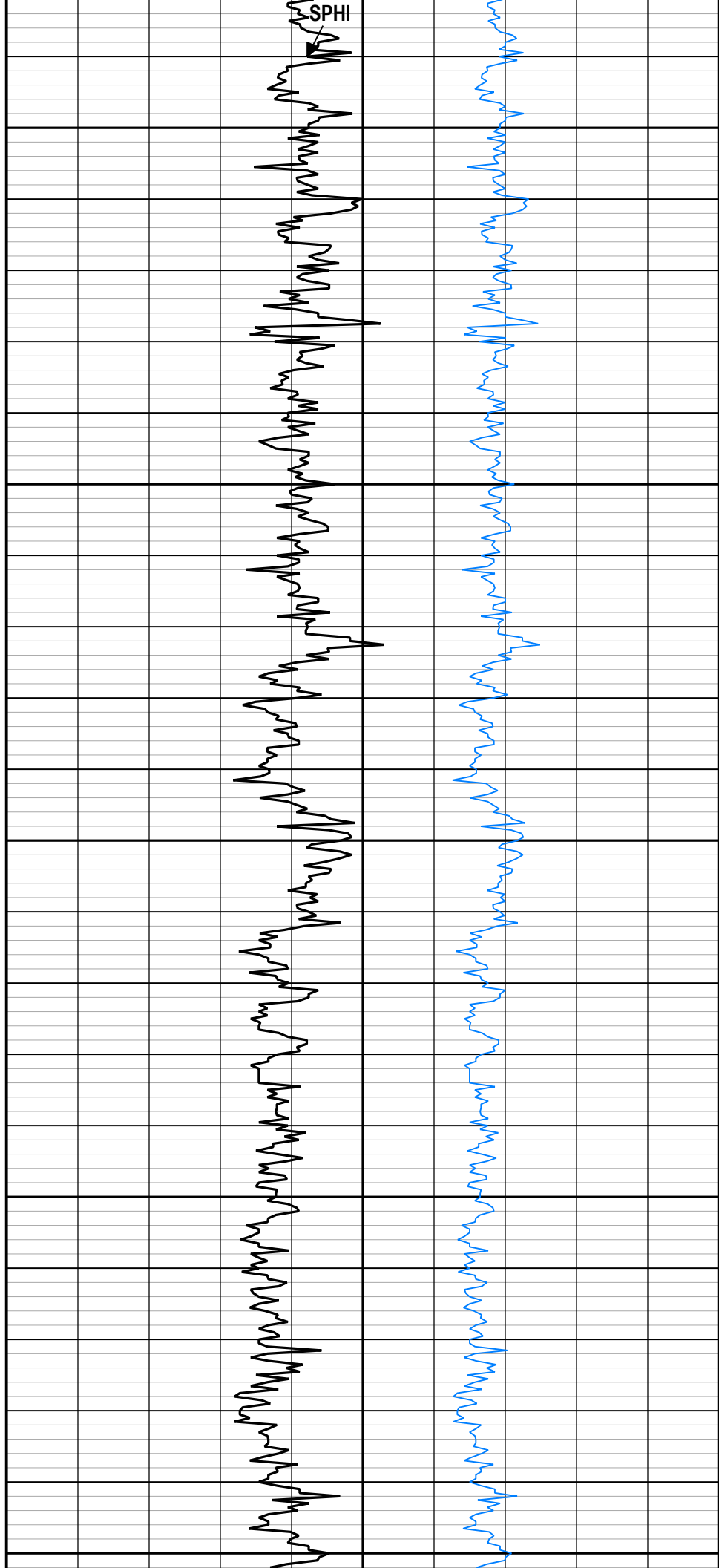
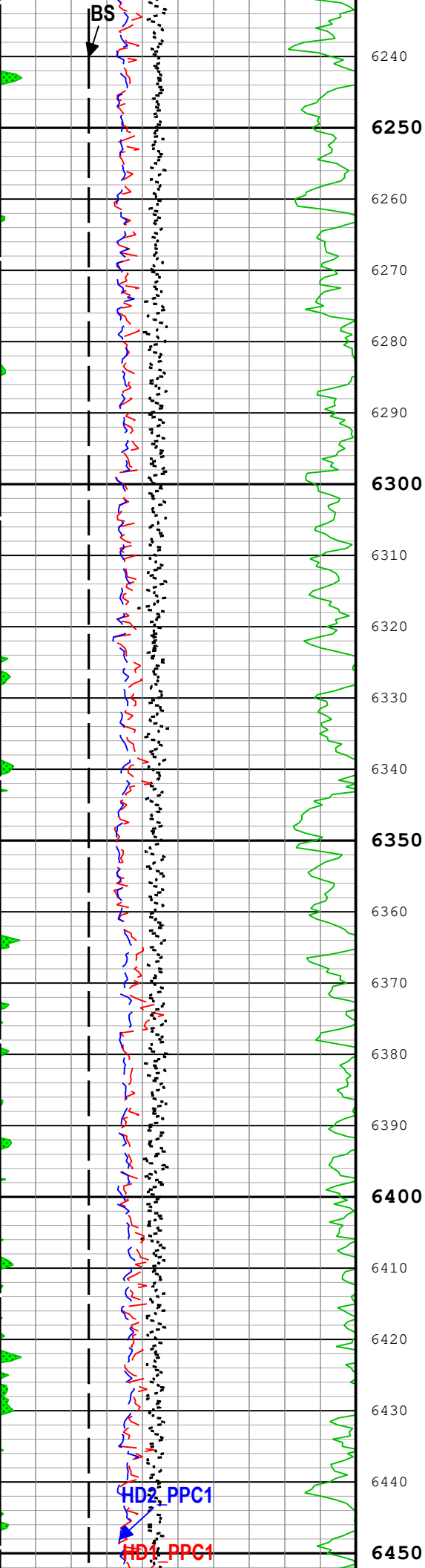


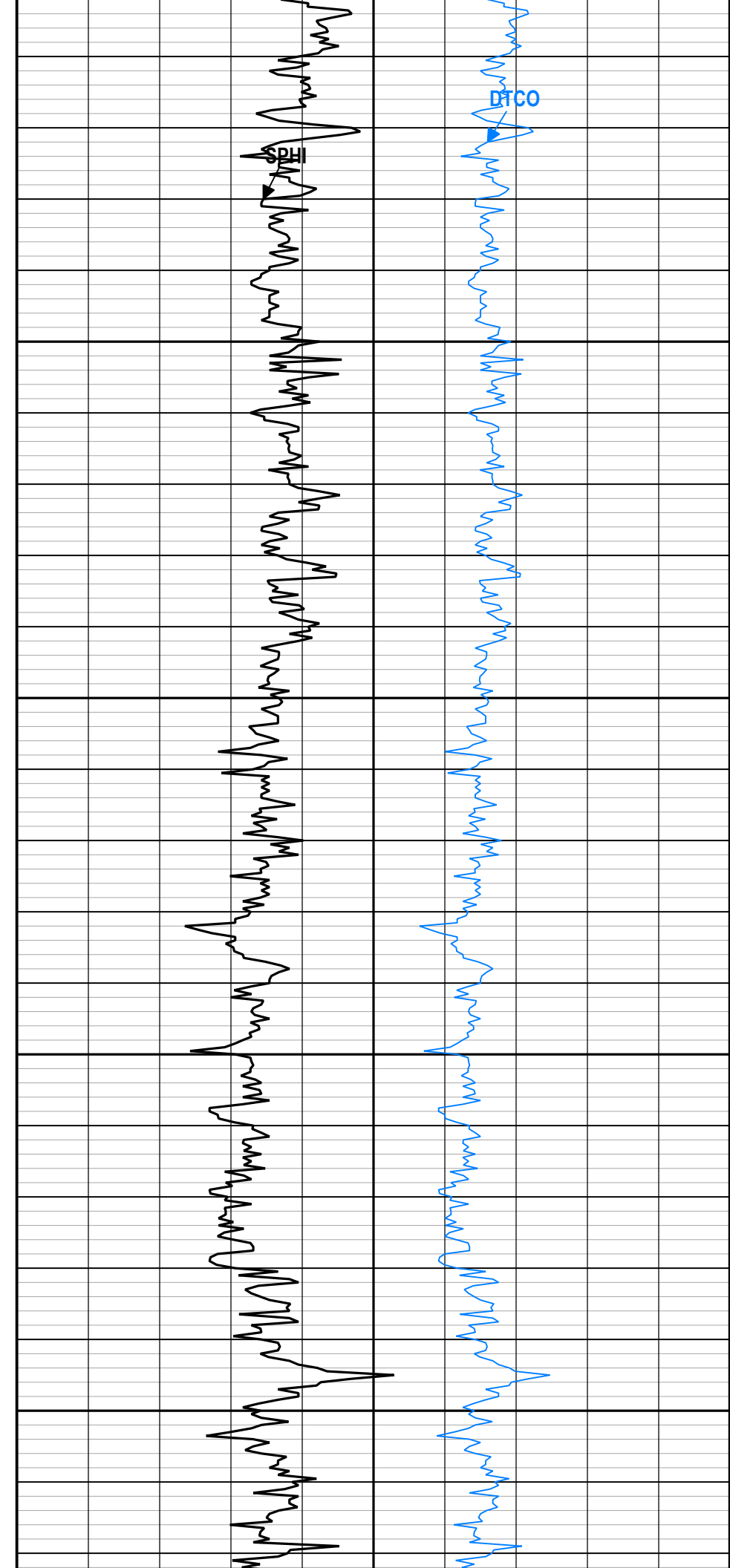
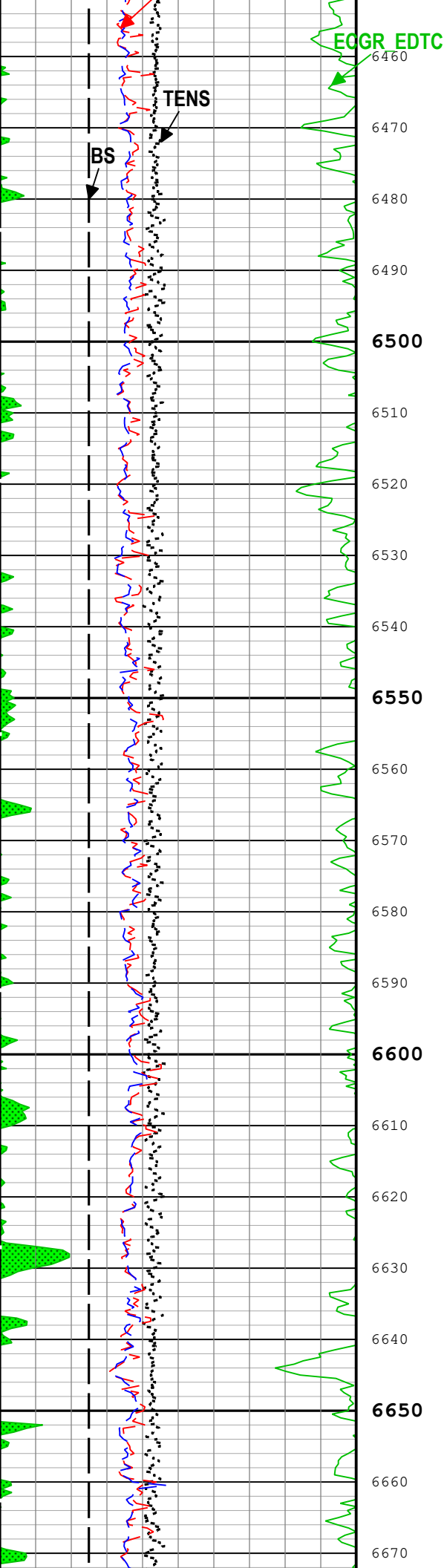


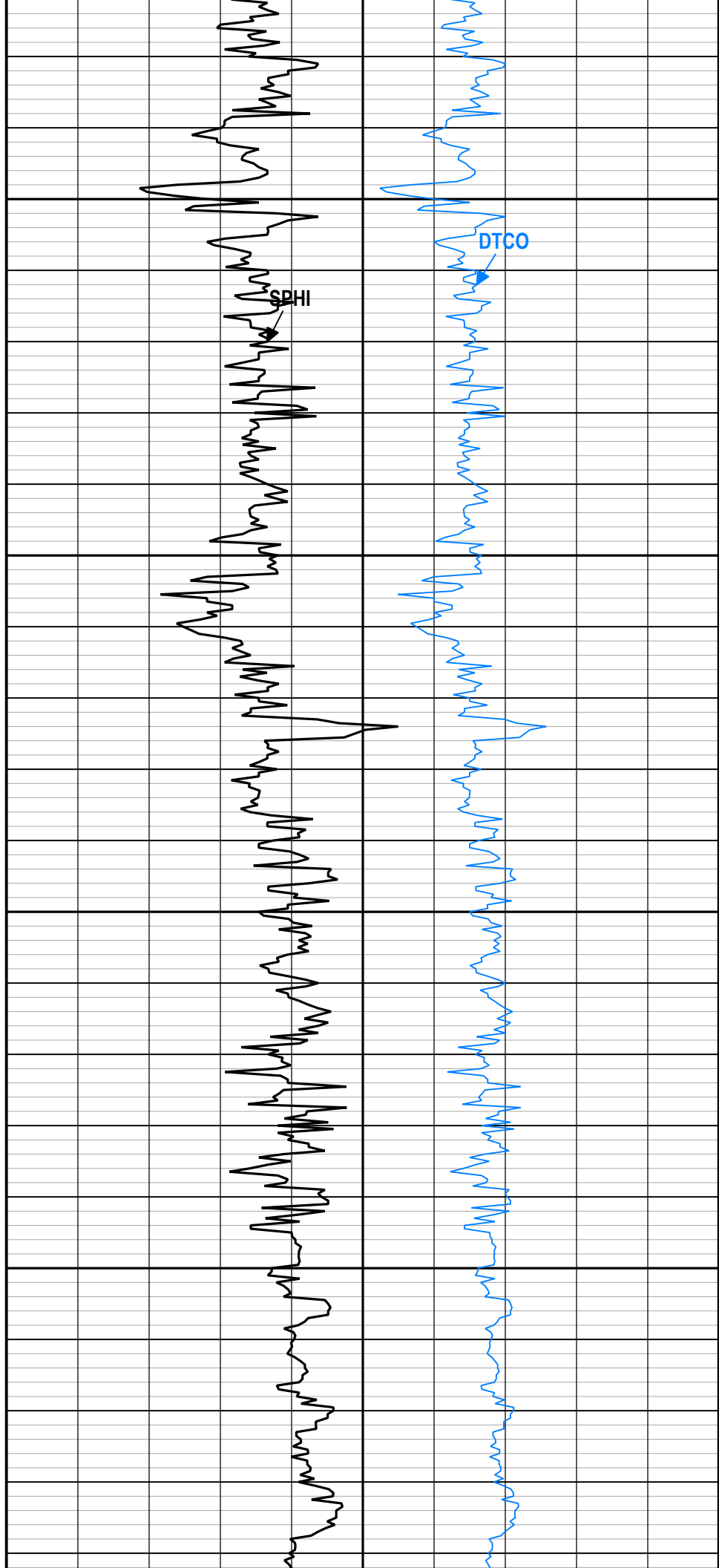
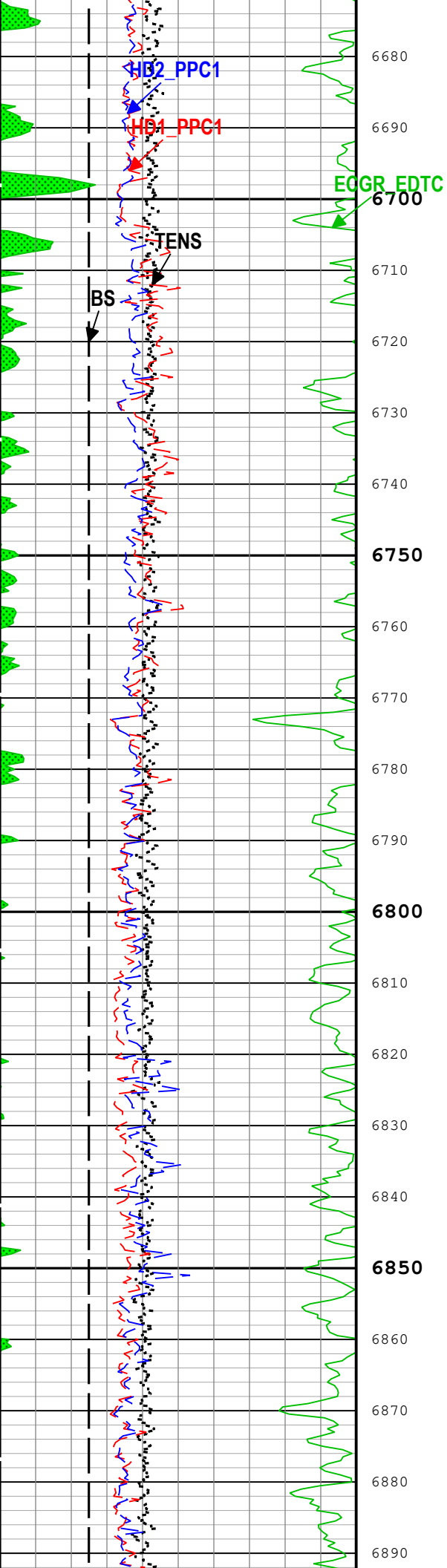


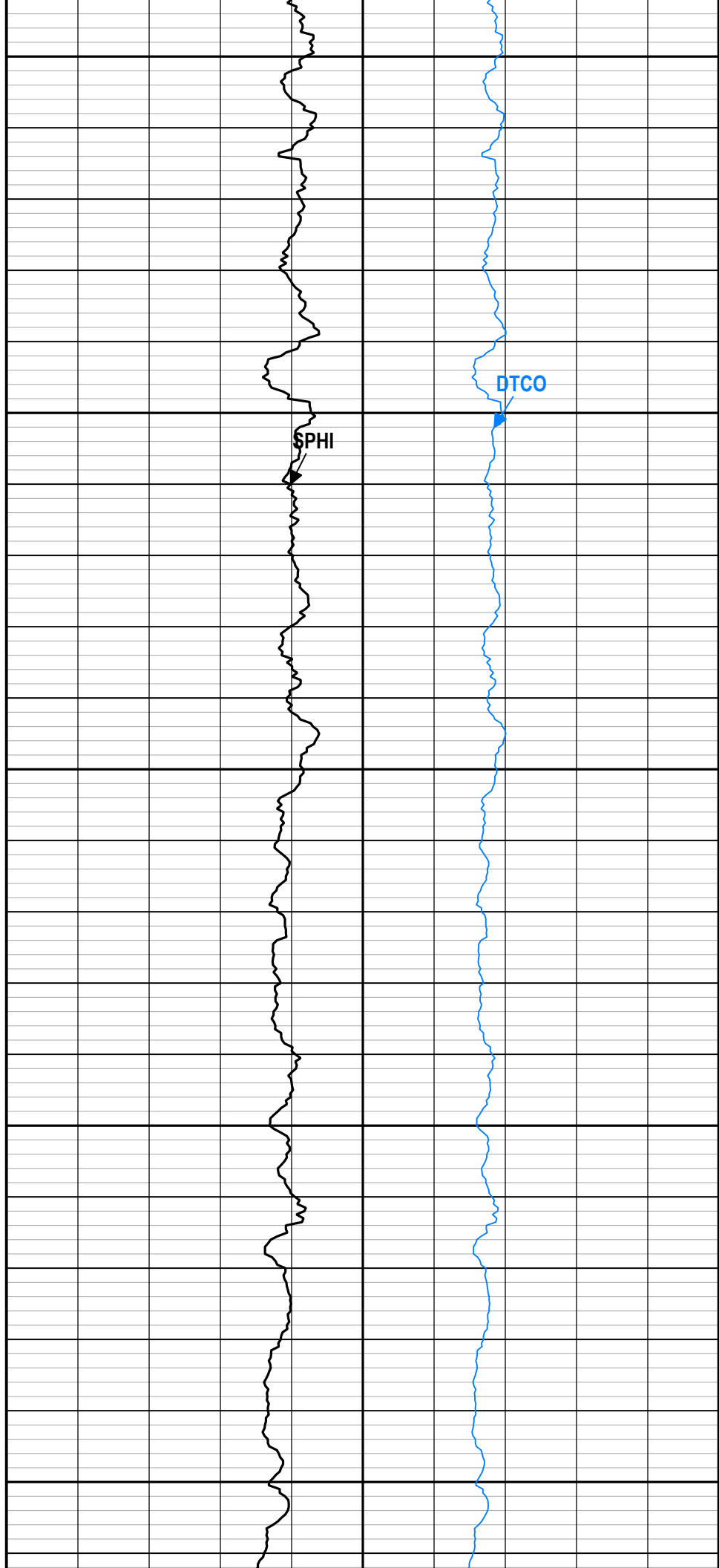
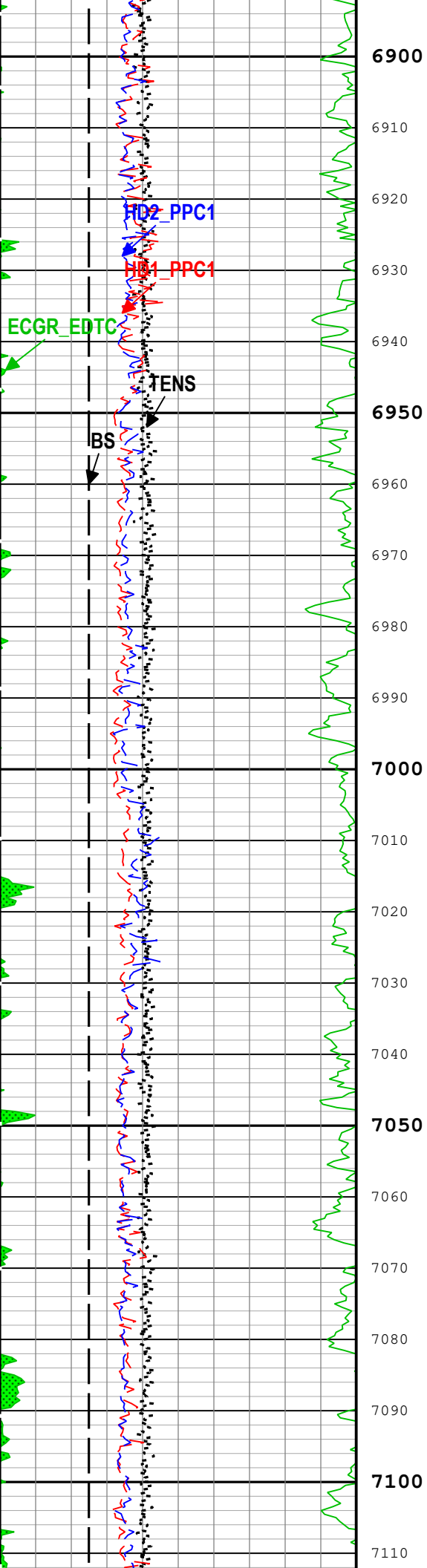


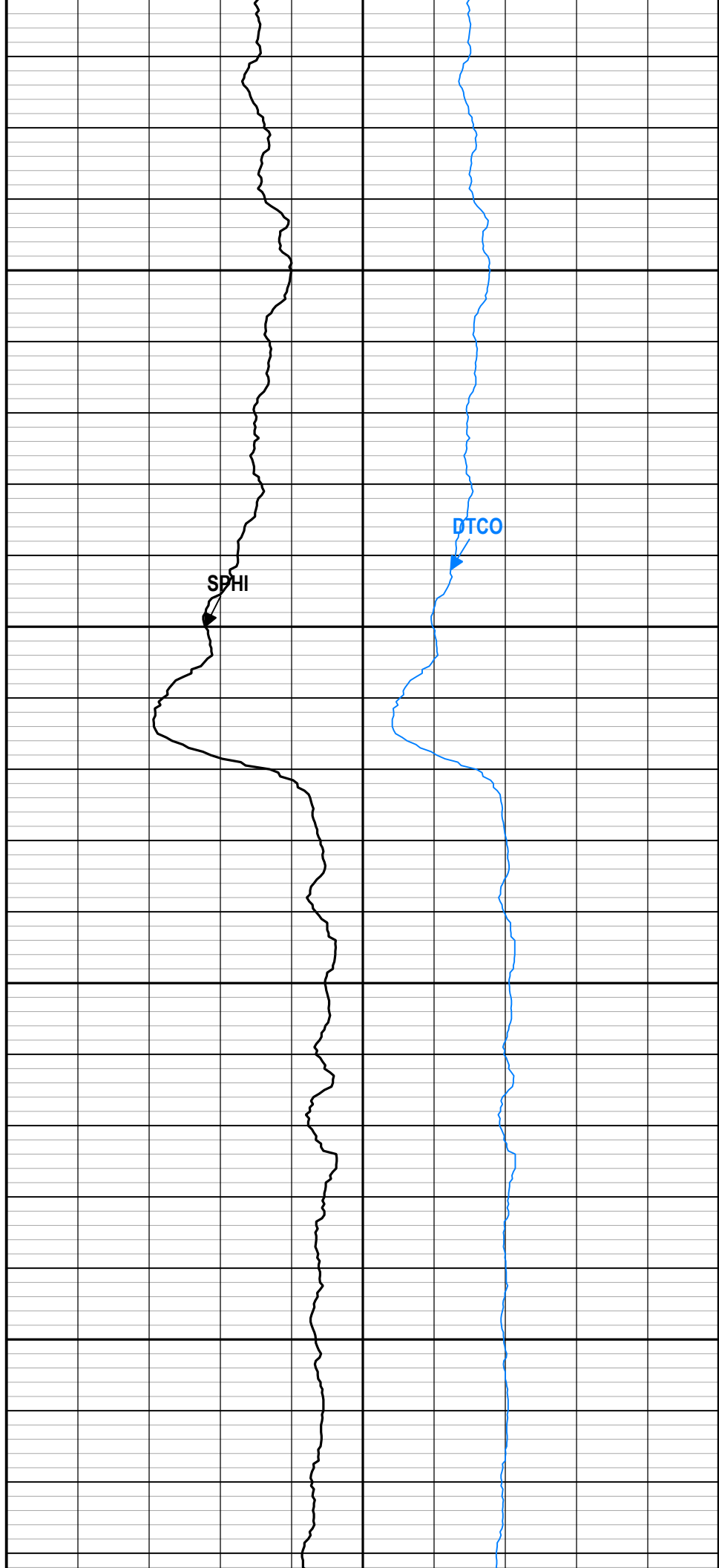
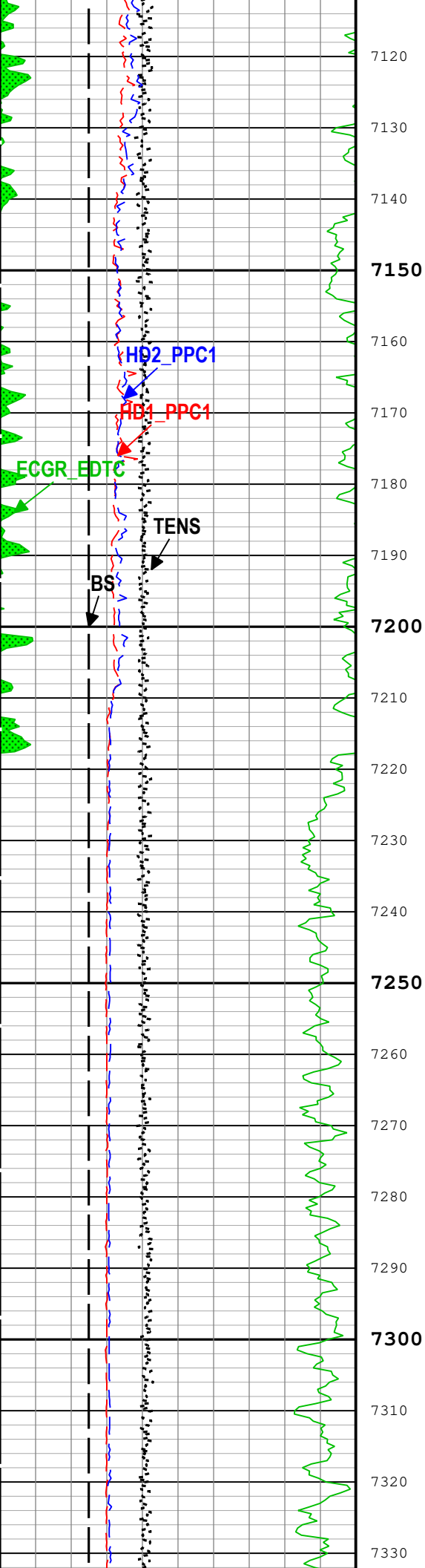


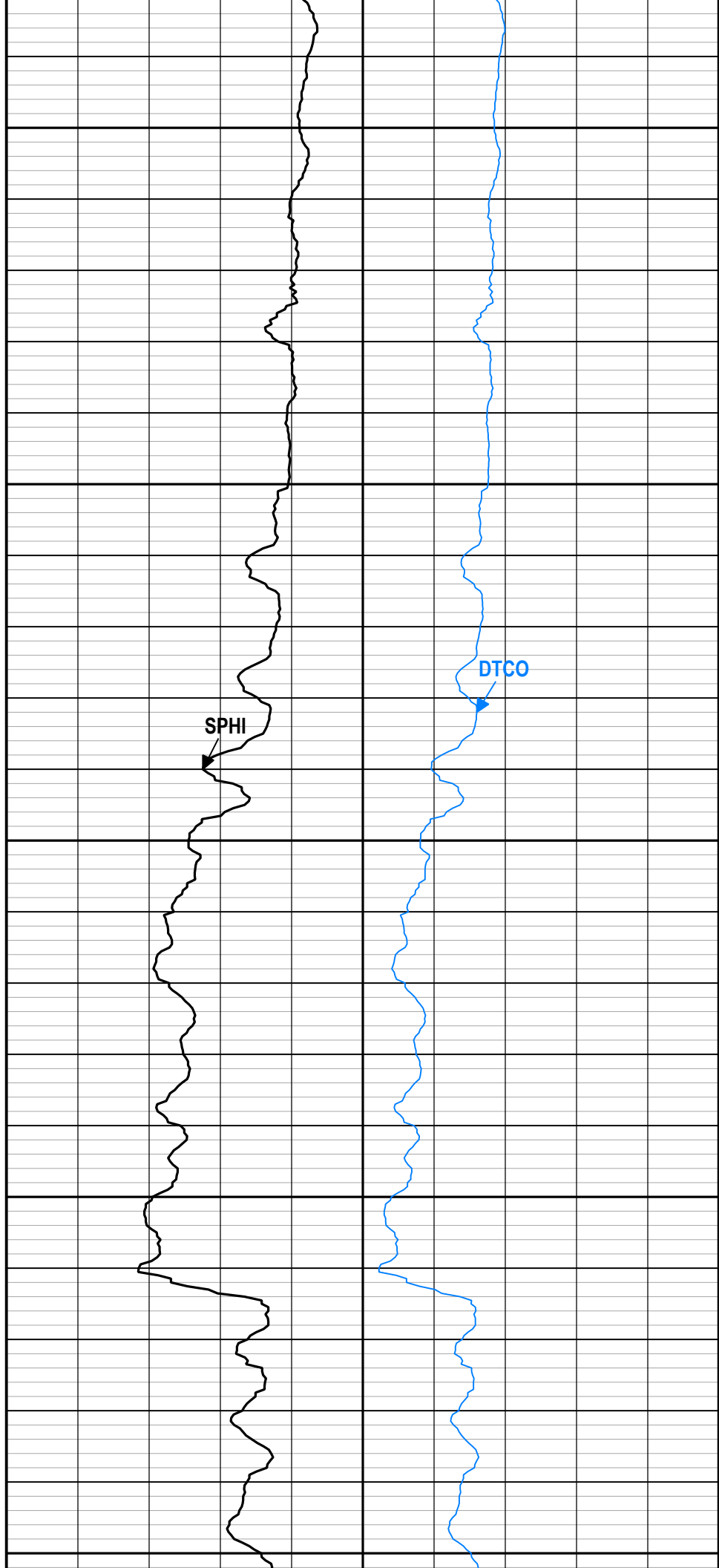
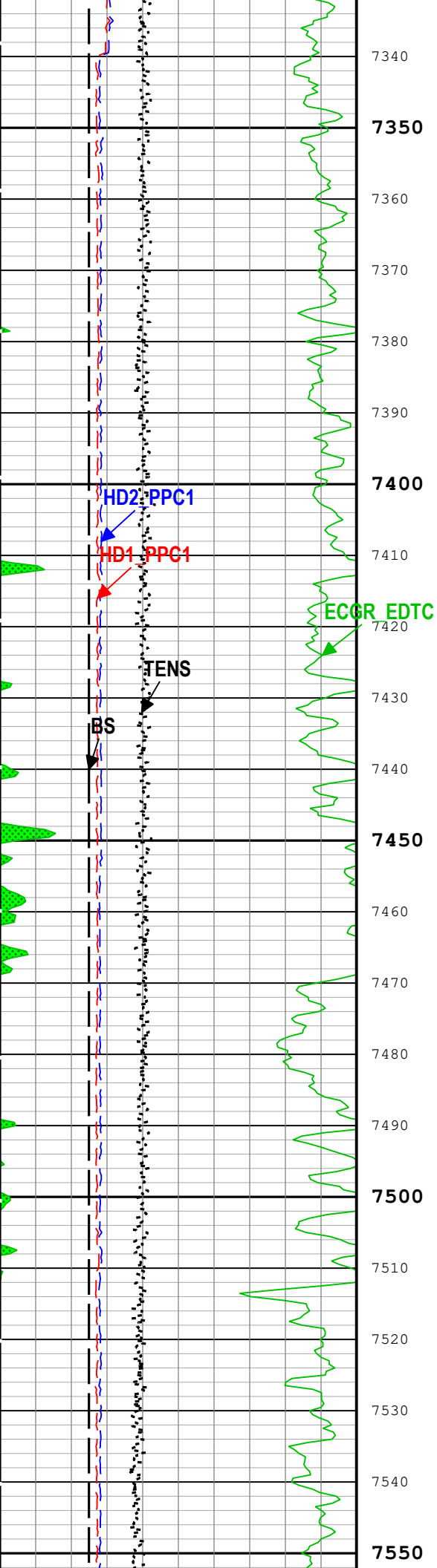


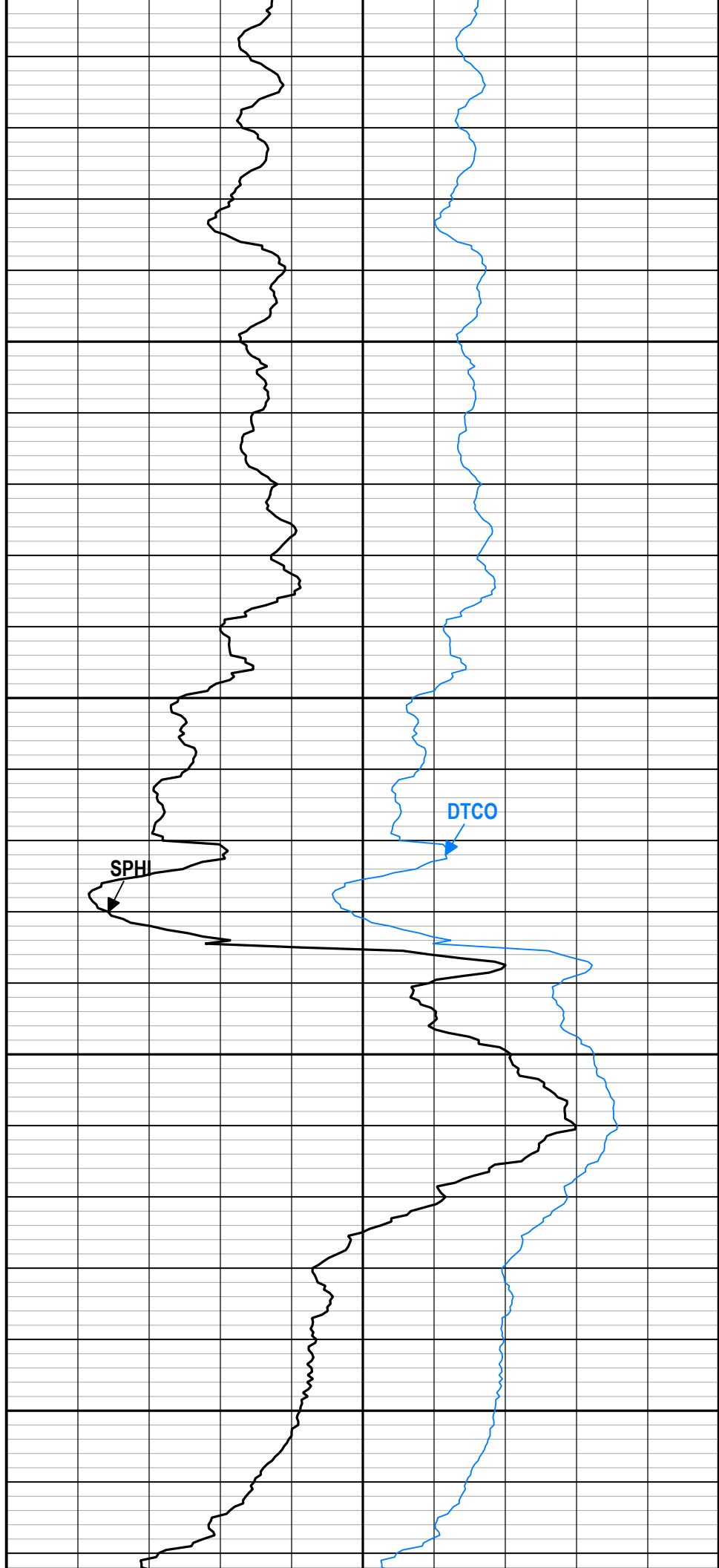
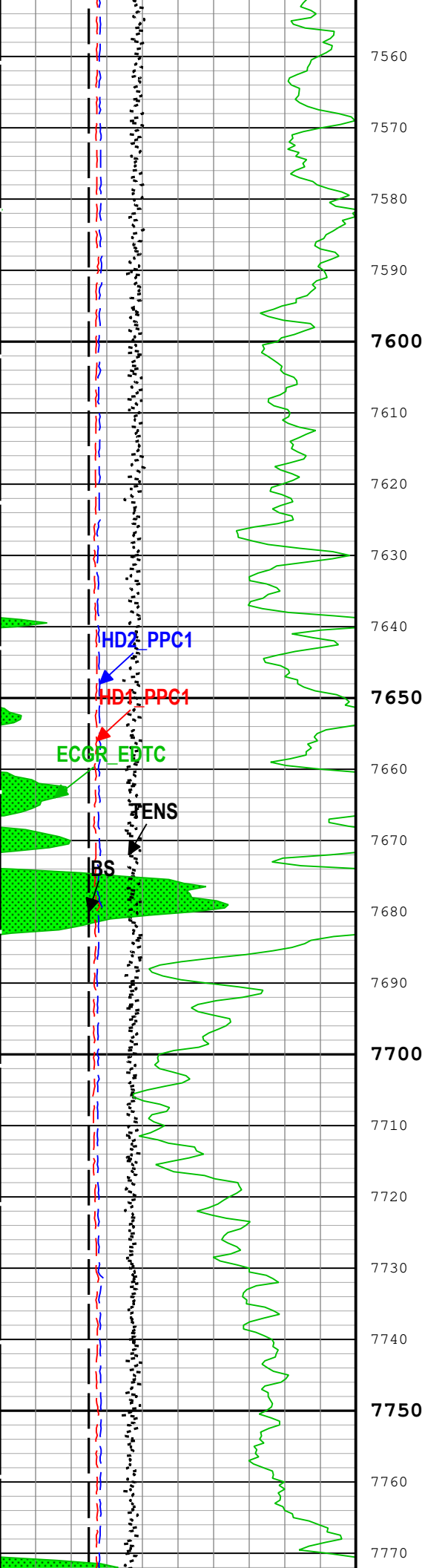


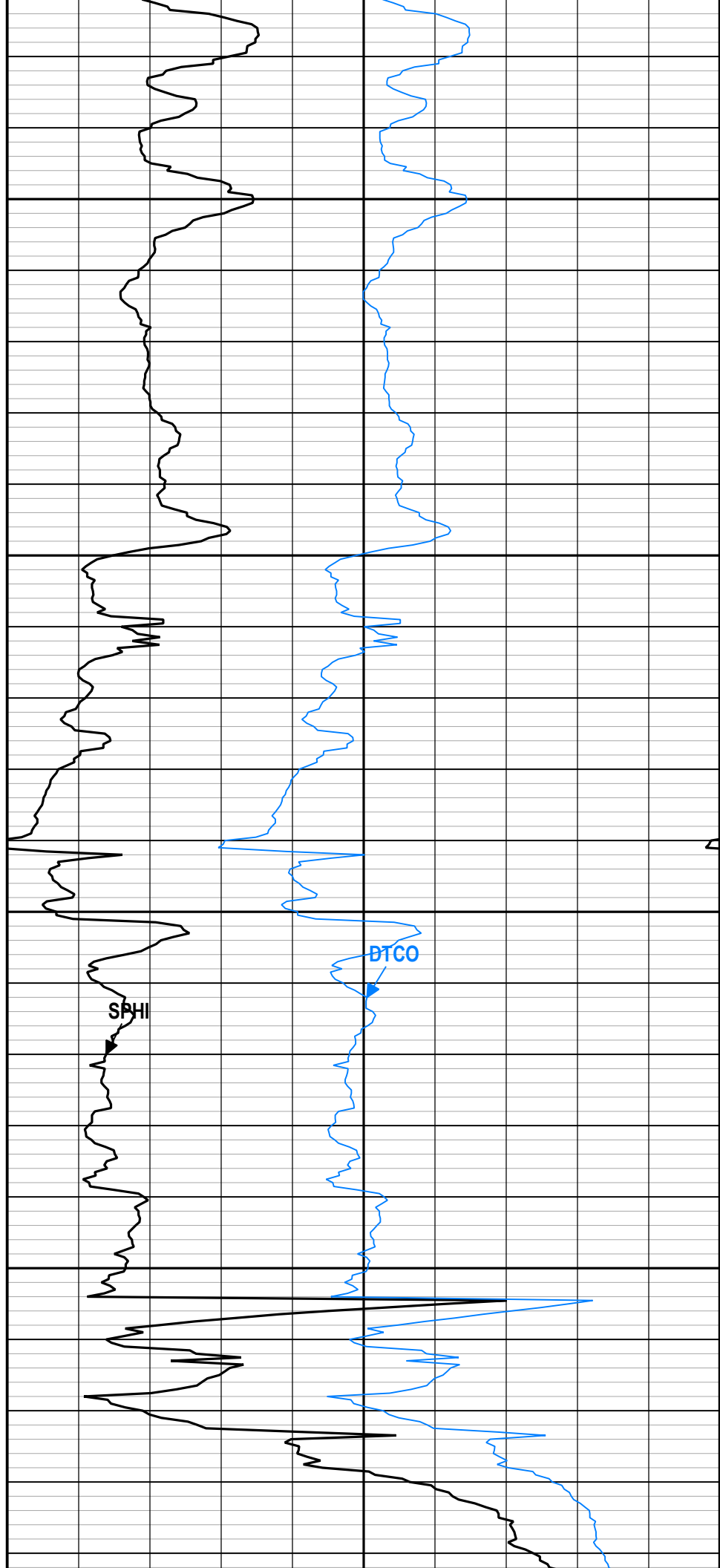
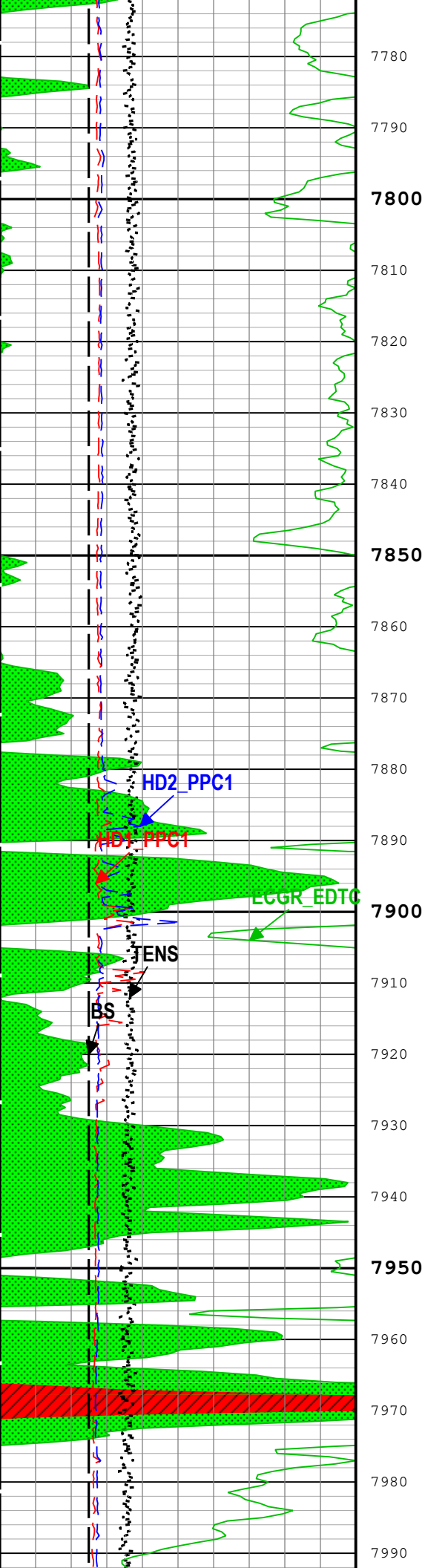


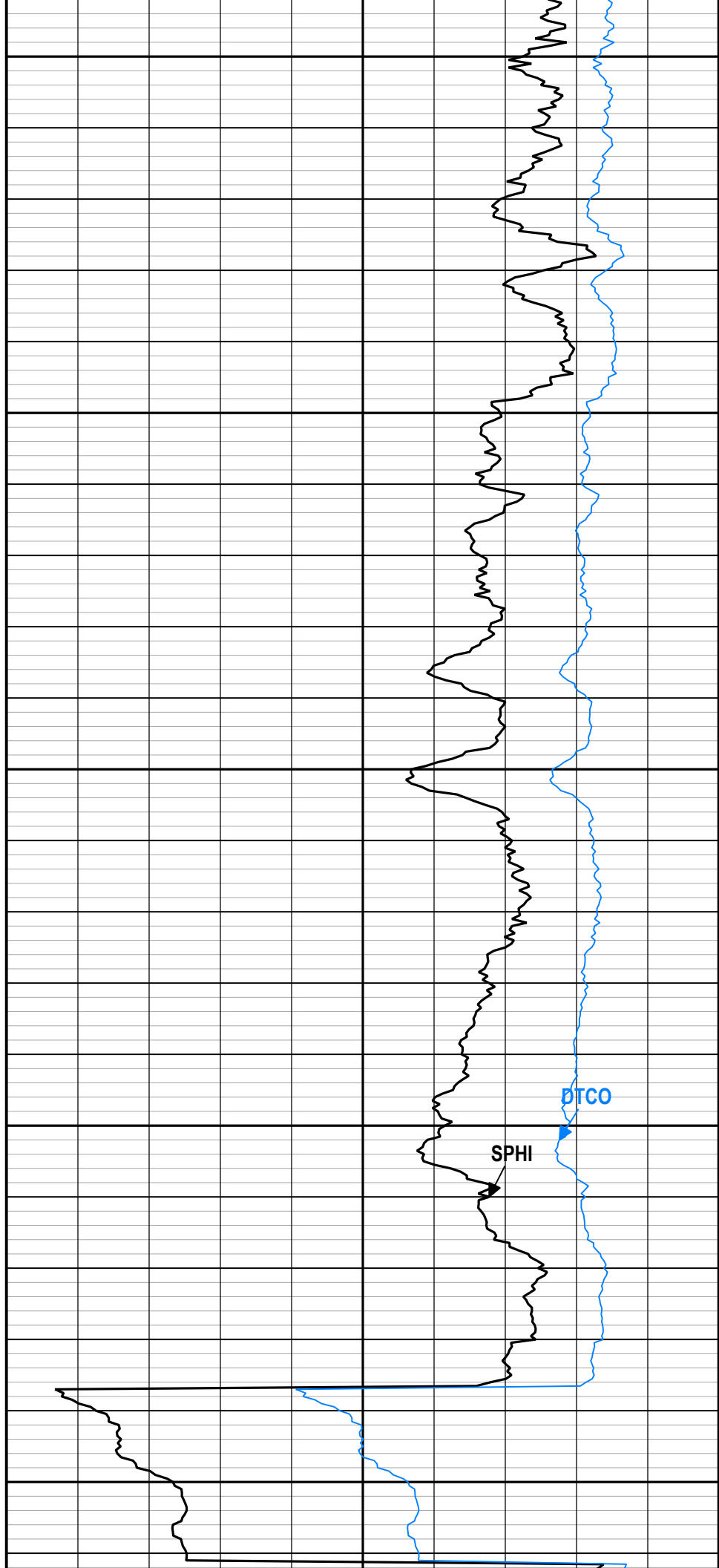
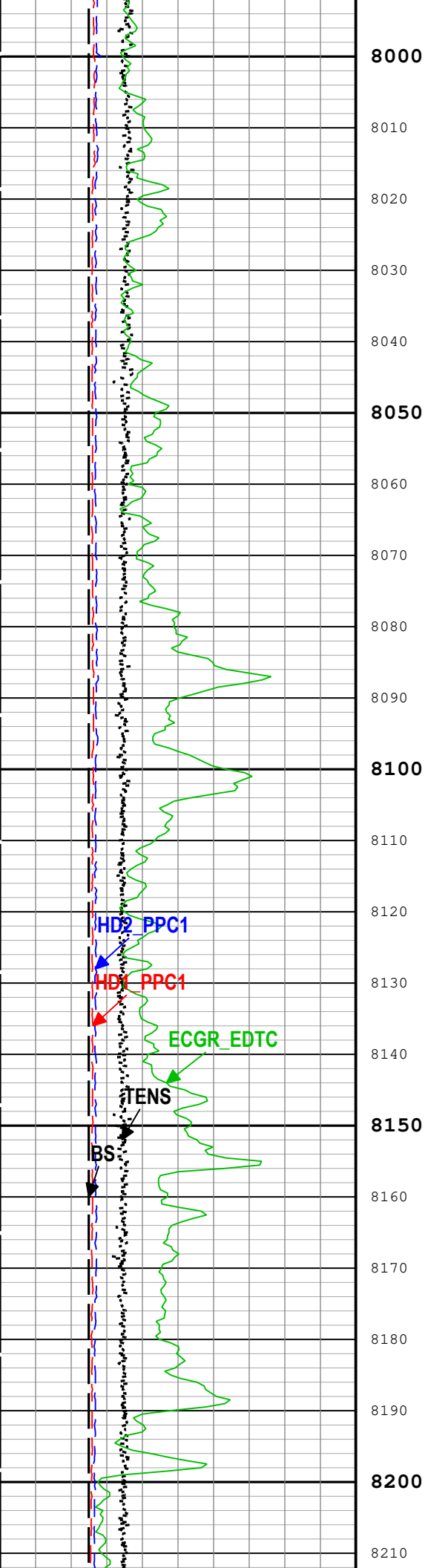


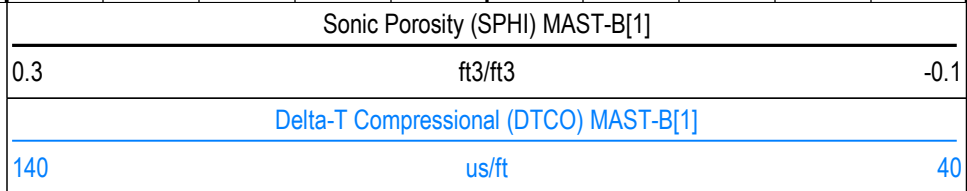
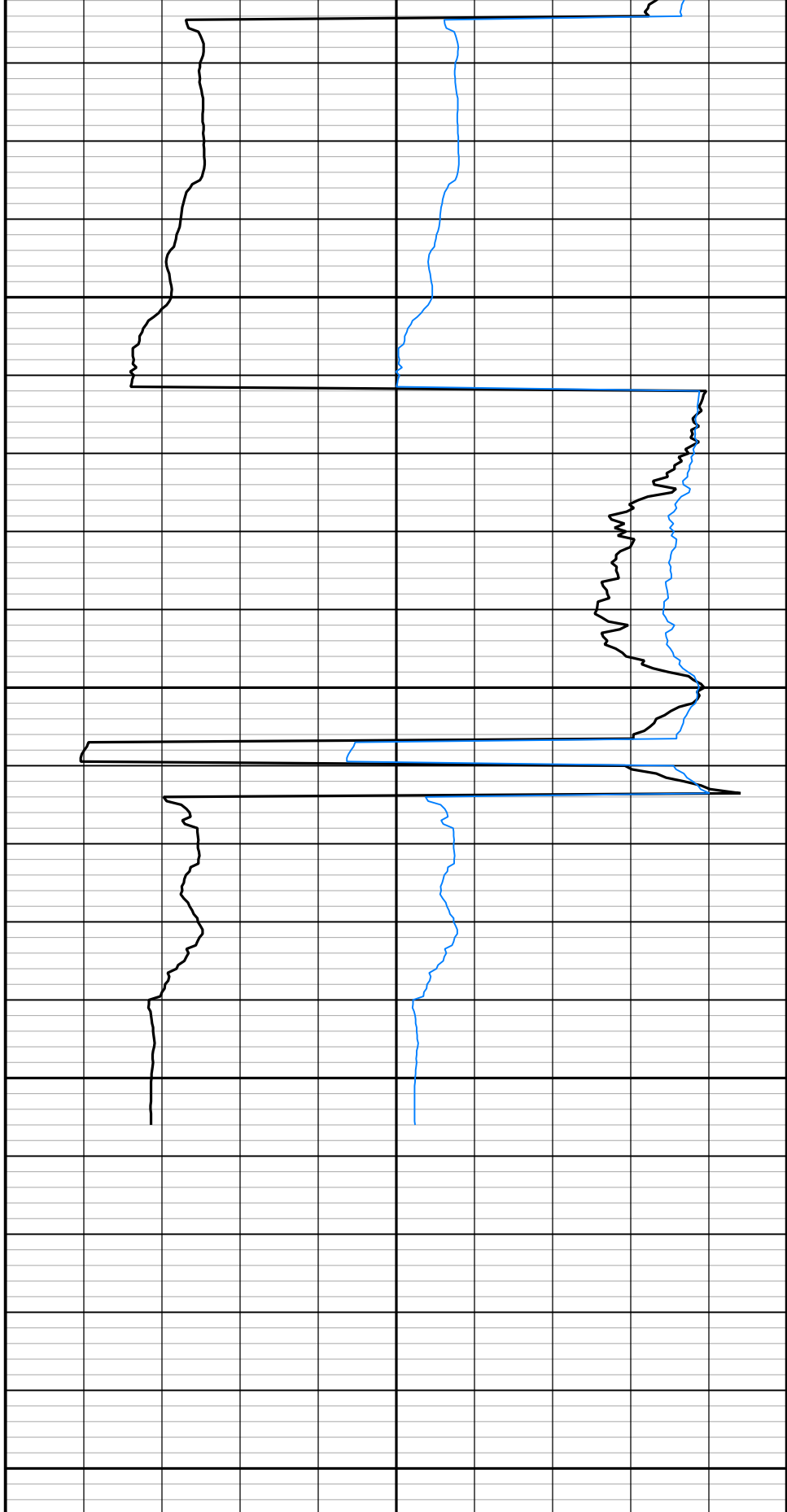
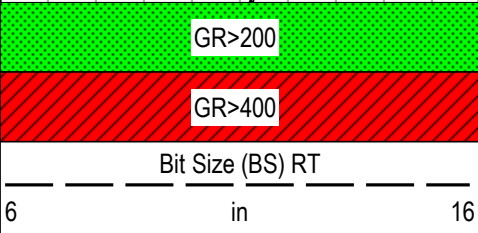
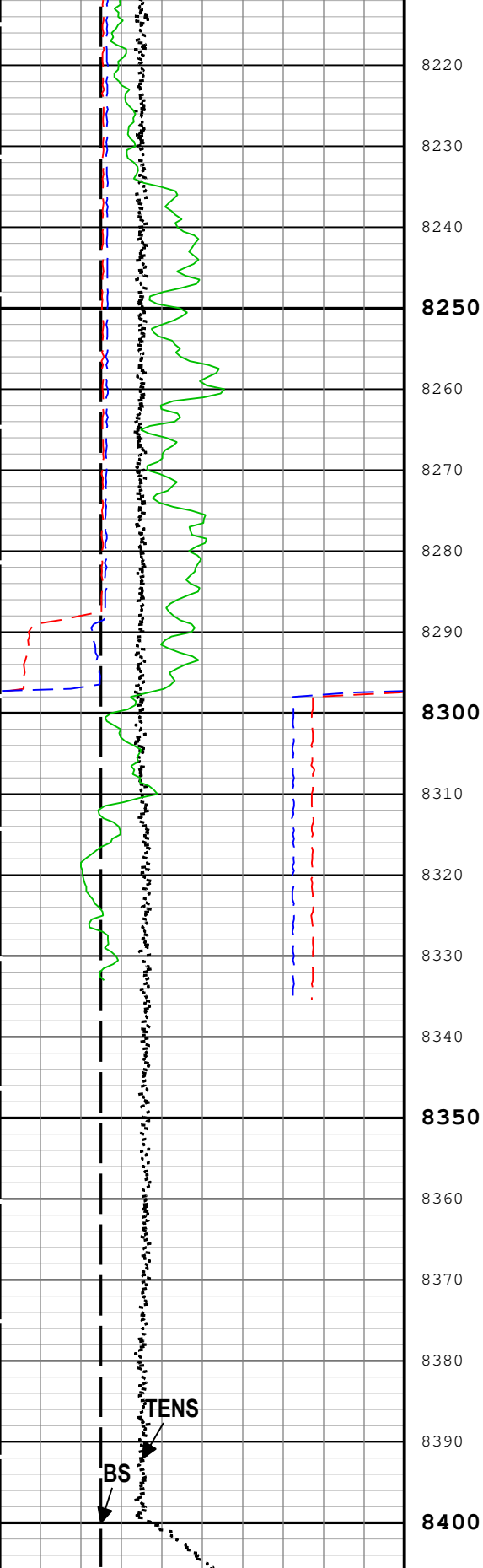












Cable Tension (TENS)		
6000	lbf	0
Gamma Ray (ECGR_EDTC) EDTC-B[1]		
0	gAPI	200
Hole Diameter 1 (HD1_PPC1) PPC-B[1]		
6	in	16
Hole Diameter 2 (HD2_PPC1) PPC-B[1]		
6	in	16

TIME_1900 - Time Marked every 60.00 (s)

Description: MAST_SONI_BHC Format: Log (BRADFORD MSIP BHC) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
 Creation Date: 17-Apr-2019 05:33:00

Channel Processing Parameters

1D: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHCCTL	Borehole Compensated Processing Control Flag	MAST-B	Time Zoned	
BHCSEL_ML	BHC (Borehole Compensation) Receiver Selection for Monopole Lower Transmitter	MAST-B	[Off, Off, Off, Off, Off, On, On, On, On, Off, Off, Off, Off]	
BHCSEL_MU	BHC (Borehole Compensation) Receiver Selection for Monopole Upper Transmitter	MAST-B	[Off, Off, Off, Off, Off, On, On, On, On, Off, Off, Off, Off]	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
CBLO	Casing Bottom (Logger)	WLSESSION	2543	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
CDS	Correction for Delta-T Shale, Empirical	Borehole	100	us/ft
DC_MODE	Depth Correction Mode	DepthCorrection	Time Zoned	
DCRMVL	DC removal option	MAST-B	On	
DET_STOP_MLM_M	Detection Stop Time for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	us
DET_STOP_MUM_M	Detection Stop Time for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	us
DET_STRT_MLM_M	Detection Start Time for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	us
DET_STRT_MUM_M	Detection Start Time for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	us
DFD	Drilling Fluid Density	Borehole	9.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DT_MAX_MLM_M	Detection Maximum slowness for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	130	us/ft
DT_MAX_MUM_M	Detection Maximum slowness for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	130	us/ft
DT_MIN_MLM_M	Detection Minimum Slowness for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	40	us/ft
DT_MIN_MUM_M	Detection Minimum Slowness for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	40	us/ft
DTCO_SELECT	Compressional Slowness Selection for Slowness-Time Coherence	MAST-B	MF	
DTF	Delta-T Fluid	Borehole	189	us/ft
DTM	Delta-T Matrix	Borehole	56	us/ft
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
DTSH_SELECT	Shear Slowness Selection for Slowness-Time Coherence	MAST-B	90D	
FMDCTL_MLM_M	First Motion Detection Processing Control Flag for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	
FMDCTL_MUM_M	First Motion Detection Processing Control Flag for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	
FMDRS_MLM_M	First Motion Detection Receiver Selection for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	Time Zoned	
FMDRS_MUM_M	First Motion Detection Receiver Selection for Monopole Upper Transmitter Mid Frequency Firing Monopole	MAST-B	Time Zoned	

	Component			
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	HD1	
GR_MULTIPLIER	Gamma Ray Multiplier	EDTC-B	1	
ITTS	Integrated Transit Time Source	MAST-B	DTCO	
MODALCTL_MFM	Modal Decomposition Processing Control Flag for Monopole Far Transmitter Mid Frequency Firing	MAST-B	On	
MODALCTL_MLM	Modal Decomposition Processing Control Flag for Monopole Lower Transmitter Mid Frequency Firing	MAST-B	On	
PBHCCTL	Pseudo Borehole Compensated Processing Control Flag	MAST-B	Time Zoned	
SFTY	Slowness Formation Type (Fast, Intermediate, Slow, etc.)	Borehole	Intermediate	
SHDSE	Sonic Hole Diameter Selection	MAST-B	GHID	
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
SPFS	Sonic Porosity Formula	Borehole	Raymer-Hunt	
SPSO	Sonic Porosity Source	MAST-B	DTCO	
SSCCTL_MFM	Sensor Sensitivity Correction Processing Control Flag for Monopole Far Transmitter Mid Frequency Firing	MAST-B	On	
SSCCTL_MLM	Sensor Sensitivity Correction Processing Control Flag for Monopole Lower Transmitter Mid Frequency Firing	MAST-B	On	
TKORHOCTL	TKO_RHO Processing Control Flag	MAST-B	On	
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	
VPVSA	Estimated P-Wave Velocity to S-Wave Velocity Ratio for Slowness-Time Coherence	MAST-B	2	

1DDepth Zoned Parameters				
Parameter	Value	Start (ft)	Stop (ft)	
BS	12.25	2464.5	2538	
BS	8.5	2538	8400	
All depth are actual.				

1DTime Zoned Parameters

Pass Log[3]:Up					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
BHCCTL	Off	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DC_MODE	Post-processed Depth	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DET_STOP_MLM_M	583	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DET_STOP_MUM_M	583	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DET_STRT_MLM_M	106	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DET_STRT_MUM_M	106	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
FMDCTL_MLM_M	Off	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
FMDCTL_MUM_M	Off	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
FMDRS_MLM_M	[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
FMDRS_MUM_M	[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
PBHCCTL	Off	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03

Pass Log[4]:Up					
BHCCTL	On	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DC_MODE	Real-time	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DET_STOP_MLM_M	583.33	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DET_STOP_MUM_M	583.33	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DET_STRT_MLM_M	106.67	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DET_STRT_MUM_M	106.67	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35

FMDCTL_MLM_M	On	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
FMDCTL_MUM_M	On	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
FMDRS_MLM_M	[1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
FMDRS_MUM_M	[0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
PBHCCTL	On	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35

Pass Log[5]:Up

BHCCTL	On	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DC_MODE	Real-time	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DET_STOP_MLM_M	583.33	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DET_STOP_MUM_M	583.33	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DET_STRT_MLM_M	106.67	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DET_STRT_MUM_M	106.67	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
FMDCTL_MLM_M	On	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
FMDCTL_MUM_M	On	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
FMDRS_MLM_M	[1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
FMDRS_MUM_M	[0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
PBHCCTL	On	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35

Pass Log[7]:Up

BHCCTL	On	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DC_MODE	Real-time	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DET_STOP_MLM_M	583.33	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DET_STOP_MUM_M	583.33	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DET_STRT_MLM_M	106.67	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DET_STRT_MUM_M	106.67	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
FMDCTL_MLM_M	On	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
FMDCTL_MUM_M	On	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
FMDRS_MLM_M	[1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
FMDRS_MUM_M	[0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
PBHCCTL	On	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85

All depth are at tool zero.

Tool Control Parameters

1D: Parameters

Parameter	Description	Tool	Value	Unit
ACQ_DOMAIN	Custom Acquisition Domain Name	MAST-B	Time Zoned	
ACQCTL	Acquisition Control	MAST-B	Time Zoned	
CBOOTSTA_MAPC	MAMS Controller Boot Status	MAST-B	1	
CONTROLLER_FIRM_REV_MAPC	MAPC Firmware Revision of Controller Electronics	MAST-B	1840	
COMPCTL	Data Compression Control	MAST-B	Time Zoned	
DHMODALCTL	Downhole/Surface Modal Computation Control	MAST-B	Time Zoned	
DIGDEL	Waveform Digitizing Delay	MAST-B	Time Zoned	us
DIGDT	Sonic Waveform Digitizing Slowness	MAST-B	Time Zoned	us/ft
DIGTIME	Digitizing Time	MAST-B	Time Zoned	us
DIIN_WF_CHN	Dipole Inline Component Waveform Data Channel Name	MAST-B	Time Zoned	
DIIN_WFN_CHN	Dipole Inline Component Waveform Normalization Data Channel Name	MAST-B	Time Zoned	

DIOF_WF_CHN	Dipole Offline Component Waveform Data Channel Name	MAST-B	Time Zoned	
DIOF_WFN_CHN	Dipole Offline Component Waveform Normalization Data Channel Name	MAST-B	Time Zoned	
GNINT	Automatic Gain Selection Time Interval	MAST-B	Time Zoned	us
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	Time Zoned	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	Time Zoned	
MONO_WFN_CHN	Monopole Component Waveform Normalization Data Channel Name	MAST-B	Time Zoned	
MSMT_LIST	Measurement List	MAST-B	Time Zoned	
NUMMSMT	Number of active measurements	MAST-B	Time Zoned	
PROD_MASTUI	MAST Product Class Selection	MAST-B	Time Zoned	
SENSOR10_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #10	MAST-B	1057	
SENSOR11_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #11	MAST-B	1057	
SENSOR12_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #12	MAST-B	1057	
SENSOR13_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #13	MAST-B	1057	
SENSOR1_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #1	MAST-B	1057	
SENSOR2_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #2	MAST-B	1057	
SENSOR3_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #3	MAST-B	1057	
SENSOR4_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #4	MAST-B	1057	
SENSOR5_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #5	MAST-B	1057	
SENSOR6_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #6	MAST-B	1057	
SENSOR7_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #7	MAST-B	1057	
SENSOR8_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #8	MAST-B	1057	
SENSOR9_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #9	MAST-B	1057	
RBOOTSTA_MAPC	MAMS Receiver Boot Status	MAST-B	1	
RXDO	Receiver Depth Offset	MAST-B	[36, 30, 24, 18, 12, 6, 0, -6, -12, -18, -24, -30, -36]	in
RXRB	Receiver Relative Bearing	MAST-B	[0, 45, 90, 135, 180, 225, 270, 315]	deg
RXSEL	Receiver Station Select	MAST-B	Time Zoned	
SAMINT	Sonic Waveform Sampling Interval	MAST-B	Time Zoned	
SERVICE_LIST	Service Selection List	MAST-B	Time Zoned	
SNSR_WF_CHN	Sensor Waveforms Data Channel Name	MAST-B	Time Zoned	
SNSR_WFN_CHN	Sensor Waveforms Normalization Factor Channel Name	MAST-B	Time Zoned	
SNSRSEL	Sensor Element Select	MAST-B	Time Zoned	
TX_AMP	Transmitter Amplitude Factor	MAST-B	Time Zoned	
TX_WF_SIGNAL	Sonic Drive Signal	MAST-B	Time Zoned	
TXDO	Transmitter Depth Offset	MAST-B	[-48, 48, 165.36, 138.36, 150.36]	in
TXRB	Transmitter Relative Bearing	MAST-B	[0, 0, 0, 90, 0]	deg
TXSEL	Transmitter Drive Selection	MAST-B	Time Zoned	
WF_CR_CHN	Waveform Compression Rate Channel Name	MAST-B	Time Zoned	
WF_DEPTH_CHN	Waveform Depth Channel Name	MAST-B	Time Zoned	
WF_QI_CHN	Waveform Quality Indicator Channel Name	MAST-B	Time Zoned	
WFSEL	Transmitter Drive Waveform Selection	MAST-B	Time Zoned	

1DTime Zoned Parameters					
Pass Log[3]:Up					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
ACQ_DOMAIN	[UMMF, LMMF, FMMF, FMLF, XDCF, YDCF]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
ACQCTL	[1, 1, 1, 1, 1, 1]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
COMPCTL	[MZIPA, MZIPA, MZIPA, MZIPD, MZIPD, MZIPD]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03

DHMODALCTL	[HALF, OFF, OFF, HALF, HALF, HALF]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIGDEL	[0, 0, 0, 0, 0, 0]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIGDT	[0, 0, 0, 0, 0, 0]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIGTIME	[2550, 2550, 5110, 20440, 30480, 30480]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIIN_WF_CHN	[, , , , SW90C_090, SW00C_000]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIIN_WFN_CHN	[, , , , SW90CN_090, SW00CN_000]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIOF_WF_CHN	[, , , , SW90C_000, SW00C_090]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
DIOF_WFN_CHN	[, , , , SW90CN_000, SW00CN_090]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
GNINT	[2550, 2550, 5110, 20440, 30480, 30480]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
MAX_LOG_SPEED	1413	17-Apr-2019 00:14:22	17-Apr-2019 00:32:09	8405.74	8179.56
MAX_LOG_SPEED	1500	17-Apr-2019 00:32:09	17-Apr-2019 00:41:24	8179.56	8010.97
MAX_LOG_SPEED	1613	17-Apr-2019 00:41:24	17-Apr-2019 00:43:28	8010.97	7973.27
MAX_LOG_SPEED	1694	17-Apr-2019 00:43:28	17-Apr-2019 00:47:32	7973.27	7898.77
MAX_LOG_SPEED	1781	17-Apr-2019 00:47:32	17-Apr-2019 00:53:43	7898.77	7783.69
MAX_LOG_SPEED	1657	17-Apr-2019 00:53:43	17-Apr-2019 00:55:45	7783.69	7744.53
MAX_LOG_SPEED	1537	17-Apr-2019 00:55:45	17-Apr-2019 00:57:48	7744.53	7705.71
MAX_LOG_SPEED	1695	17-Apr-2019 00:57:48	17-Apr-2019 00:59:51	7705.71	7666.11
MAX_LOG_SPEED	1587	17-Apr-2019 00:59:51	17-Apr-2019 01:05:59	7666.11	7540.28
MAX_LOG_SPEED	1686	17-Apr-2019 01:05:59	17-Apr-2019 01:37:40	7540.28	6894.03
MAX_TOOL_SPEED	1413	17-Apr-2019 00:14:22	17-Apr-2019 00:32:09	8405.74	8179.56
MAX_TOOL_SPEED	1500	17-Apr-2019 00:32:09	17-Apr-2019 00:41:24	8179.56	8010.97
MAX_TOOL_SPEED	1613	17-Apr-2019 00:41:24	17-Apr-2019 00:43:28	8010.97	7973.27
MAX_TOOL_SPEED	1694	17-Apr-2019 00:43:28	17-Apr-2019 00:47:32	7973.27	7898.77
MAX_TOOL_SPEED	1781	17-Apr-2019 00:47:32	17-Apr-2019 00:53:43	7898.77	7783.69
MAX_TOOL_SPEED	1657	17-Apr-2019 00:53:43	17-Apr-2019 00:55:45	7783.69	7744.53
MAX_TOOL_SPEED	1537	17-Apr-2019 00:55:45	17-Apr-2019 00:57:48	7744.53	7705.71
MAX_TOOL_SPEED	1695	17-Apr-2019 00:57:48	17-Apr-2019 00:59:51	7705.71	7666.11
MAX_TOOL_SPEED	1587	17-Apr-2019 00:59:51	17-Apr-2019 01:05:59	7666.11	7540.28
MAX_TOOL_SPEED	1686	17-Apr-2019 01:05:59	17-Apr-2019 01:37:40	7540.28	6894.03
MONO_WF_CHN	[SWMUM_M, SWMLM_M, SWMFM_M, SWMFL_M, SW90C_M, SW00C_M]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
MONO_WFN_CHN	[SWMUMN_M, SWMLMN_M, SWMFMN_M, SWMFLN_M, SW90CN_M, SW00CN_M]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
MSMT_LIST	[MUM, MLM, MFM, MFL, 90C, 00C]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
NUMMSMT	6	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
PROD_MASTUI	STD	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
RXSEL	[[On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On], [On, On, On, On, On, On, On]]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
SAMINT	[10, 10, 10, 40, 40, 40]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
SERVICE_LIST	[STSTC, NMSTC, XDSTC, YDSTC, FMSTC, ANISO, NMATD, FMATD, CRV, BHC, PBHC]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03

SNSR_WF_CHN	[RSWMUM, RSWMMLM, RSWMFM, RSWMFL, RSW90C, RSW00C]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
SNSR_WFN_CHN	[SWMUMN, SWMLMN, SWMFMN, SWMFLN, SW90CN, SW00CN]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
SNSRSEL	[[On, On, On, On, On, On, On], [Off, Off, Off, Off, On, On], [On, On, On, On, On, On], [Off, Off, Off, Off, On, On], [On, On, On, On, On, On], [Off, Off, Off, Off, On, On], [On, On, On, On, On, On], [Off, Off, Off, Off, On, On]]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
TX_AMP	[THREEQUARTER, THREEQUARTER, FULL, FULL, FULL, FULL]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
TX_WF_SIGNAL	[PREDEFINED, PREDEFINED, PREDEFINED, PREDEFINED, PREDEFINED, PREDEFINED]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
TXSEL	[UM, LM, FM, FM, D90, D00]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
WF_CR_CHN	[WCRMUM, WCRMMLM, WCRMFM, WCRMFL, WCR90C, WCR00C]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
WF_DEPTH_CHN	[WDMUM, WDMMLM, WDMFM, WDMFL, WD90C, WD00C]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
WF_QI_CHN	[WQMUM, WQMLM, WQMFM, WQMFL, WQ90C, WQ00C]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03
WFSEL	[mp_mf_d, mp_mf_d, mp_mf_d, mp_lf_d, dp_cd_d, dp_cd_d]	17-Apr-2019 00:18:03	17-Apr-2019 01:37:40	8405.74	6894.03

Pass Log[4]:Up					
ACQ_DOMAIN	[UMMF, LMMF, FMMF]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
ACQCTL	[1, 1, 1]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
COMPCTL	[MZIPA, MZIPA, MZIPA]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DHMODALCTL	[OFF, OFF, OFF]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIGDEL	[0, 0, 0]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIGDT	[0, 0, 0]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIGTIME	[2550, 2550, 5110]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIIN_WF_CHN	[, ,]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIIN_WFN_CHN	[, ,]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIOF_WF_CHN	[, ,]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
DIOF_WFN_CHN	[, ,]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
GNINT	[2550, 2550, 5110]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
MAX_LOG_SPEED	1800	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
MAX_TOOL_SPEED	2660	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
MONO_WF_CHN	[SWMUM_M, SWMLM_M, SWMFM_M]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
MONO_WFN_CHN	[SWMUMN_M, SWMLMN_M, SWMFMN_M]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
MSMT_LIST	[MUM, MLM, MFM]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
NUMMSMT	3	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
PROD_MASTUI	BHC	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
RXSEL	[[Off, On, On], [Off, On, On], [Off, On, On], [Off, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, Off, Off], [On, Off, Off], [On, Off, Off], [On, Off, Off]]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
SAMINT	[10, 10, 10]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
SERVICE_LIST	[NMSTC, FMSTC, NMATD, FMATD, CRV, BHC, PBHC]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
SNSR_WF_CHN	[RSWMUM, RSWMMLM, RSWMFM, RSWMFL, RSW90C, RSW00C]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35

	[RSWMM_M]				
SNSR_WFN_CHN	[SWMUMN, SWMLMN, SWMFMN]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
SNSRSEL	[[On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off]]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
TX_AMP	[THREEQUARTER, THREEQUARTER, FULL]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
TX_WF_SIGNAL	[PREDEFINED, PREDEFINED, PREDEFINED]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
TXSEL	[UM, LM, FM]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
WF_CR_CHN	[WCRMUM, WCRMLM, WCRMFM]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
WF_DEPTH_CHN	[WDMUM, WDMLM, WDMFM]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
WF_QI_CHN	[WQMUM, WQMLM, WQMFM]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35
WFSEL	[mp_mf_d, mp_mf_d, mp_mf_d]	17-Apr-2019 01:40:29	17-Apr-2019 02:20:25	6894.35	5447.35

Pass Log[5]:Up					
ACQ_DOMAIN	[UMMF, LMMF, FMMF]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
ACQCTL	[1, 1, 1]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
COMPCTL	[MZIPA, MZIPA, MZIPA]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DHMODALCTL	[OFF, OFF, OFF]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIGDEL	[0, 0, 0]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIGDT	[0, 0, 0]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIGTIME	[2550, 2550, 5110]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIIN_WF_CHN	[, ,]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIIN_WFN_CHN	[, ,]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIOF_WF_CHN	[, ,]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
DIOF_WFN_CHN	[, ,]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
GNINT	[2550, 2550, 5110]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
MAX_LOG_SPEED	2798	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
MAX_TOOL_SPEED	2798	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
MONO_WF_CHN	[SWMUM_M, SWMLM_M, SWMFM_M]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
MONO_WFN_CHN	[SWMUMN_M, SWMLMN_M, SWMFMN_M]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
MSMT_LIST	[MUM, MLM, MFM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
NUMMSMT	3	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
PROD_MASTUI	BHC	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
RXSEL	[[Off, On, On], [Off, On, On], [Off, On, On], [Off, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, Off, Off], [On, Off, Off], [On, Off, Off], [On, Off, Off]]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
SAMINT	[10, 10, 10]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
SERVICE_LIST	[NMSTC, FMSTC, NMATD, FMATD, CRV, BHC, PBHC]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
SNSR_WF_CHN	[RSWMUM, RSWMLM, RSWMFM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
SNSR_WFN_CHN	[SWMUMN, SWMLMN, SWMFMN]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
SNSRSEL	[[On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off]]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
TX_AMP	[THREEQUARTER, THREEQUARTER, FULL]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
TX_WF_SIGNAL	[PREDEFINED, PREDEFINED, PREDEFINED]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
TXSEL	[UM, LM, FM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35

WF_CR_CHN	[WCRMUM, WCRMLM, WCRMFM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
WF_DEPTH_CHN	[WDMUM, WDMLM, WDMFM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
WF_QI_CHN	[WQMUM, WQMLM, WQMFM]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
WFSEL	[mp_mf_d, mp_mf_d, mp_mf_d]	17-Apr-2019 02:30:11	17-Apr-2019 03:08:21	5447.35	3892.35
Pass Log[7]:Up					
ACQ_DOMAIN	[UMMF, LMMF, FMMF]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
ACQCTL	[1, 1, 1]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
COMPCTL	[MZIPA, MZIPA, MZIPA]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DHMODALCTL	[OFF, OFF, OFF]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIGDEL	[0, 0, 0]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIGDT	[0, 0, 0]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIGTIME	[2550, 2550, 5110]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIIN_WF_CHN	[, ,]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIIN_WFN_CHN	[, ,]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIOF_WF_CHN	[, ,]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
DIOF_WFN_CHN	[, ,]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
GNINT	[2550, 2550, 5110]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
MAX_LOG_SPEED	2786	17-Apr-2019 03:20:28	17-Apr-2019 03:56:36	3892.35	2592.37
MAX_LOG_SPEED	2638	17-Apr-2019 03:56:36	17-Apr-2019 03:58:57	2592.37	2536.85
MAX_TOOL_SPEED	2786	17-Apr-2019 03:20:28	17-Apr-2019 03:56:36	3892.35	2592.37
MAX_TOOL_SPEED	2638	17-Apr-2019 03:56:36	17-Apr-2019 03:58:57	2592.37	2536.85
MONO_WF_CHN	[SWMUM_M, SWMLM_M, SWMFM_M]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
MONO_WFN_CHN	[SWMUMN_M, SWMLMN_M, SWMFMN_M]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
MSMT_LIST	[MUM, MLM, MFM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
NUMMSMT	3	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
PROD_MASTUI	BHC	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
RXSEL	[[Off, On, On], [Off, On, On], [Off, On, On], [Off, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, On, On], [On, Off, Off], [On, Off, Off], [On, Off, Off], [On, Off, Off]]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
SAMINT	[10, 10, 10]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
SERVICE_LIST	[NMSTC, FMSTC, NMATD, FMATD, CRV, BHC, PBHC]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
SNSR_WF_CHN	[RSWMUM, RSWMML, RSWMFM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
SNSR_WFN_CHN	[SWMUMN, SWMLMN, SWMFMN]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
SNSRSEL	[[On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off], [On, On, On], [Off, Off, Off]]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
TX_AMP	[THREEQUARTER, THREEQUARTER, FULL]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
TX_WF_SIGNAL	[PREDEFINED, PREDEFINED, PREDEFINED]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
TXSEL	[UM, LM, FM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
WF_CR_CHN	[WCRMUM, WCRMLM, WCRMFM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
WF_DEPTH_CHN	[WDMUM, WDMLM, WDMFM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
WF_QI_CHN	[WQMUM, WQMLM, WQMFM]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85
WFSEL	[mp_mf_d, mp_mf_d, mp_mf_d]	17-Apr-2019 03:22:11	17-Apr-2019 03:58:57	3892.35	2536.85

All depth are at tool zero.

1D

REPEAT PASS 5"=100'

Software Version

Acquisition System

Maxwell 2019

Version

9.0.106845.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1D	Log[2]:Up	Up	8119.39 ft	8408.58 ft	16-Apr-2019 11:55:07 PM	17-Apr-2019 12:12:30 AM	ON	3.91 ft	Yes

All depths are referenced to toolstring zero

Log

Company:North East Natural Energy LLC Well:Boggess 17H
1D: Log[2]:Up:S023

Description: MAST_SONI_BHC Format: Log (BRADFORD MSIP BHC) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 17-Apr-2019 05:33:10

TIME_1900 - Time Marked every 60.00 (s)

GR>200

GR>400

Bit Size (BS) RT

6 in 16

Cable Tension (TENS)

6000 lbf 0

Gamma Ray (ECGR_EDTC) EDTC-B

0 gAPI 200

Hole Diameter 1 (HD1_PPC1) PPC-B

6 in 16

Hole Diameter 2 (HD2_PPC1) PPC-B

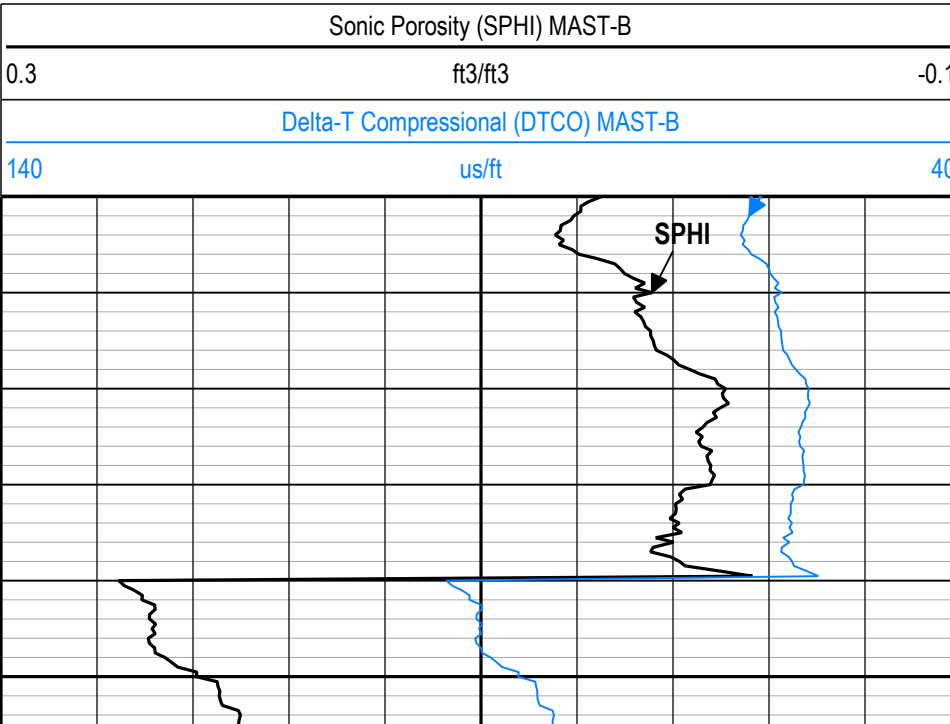
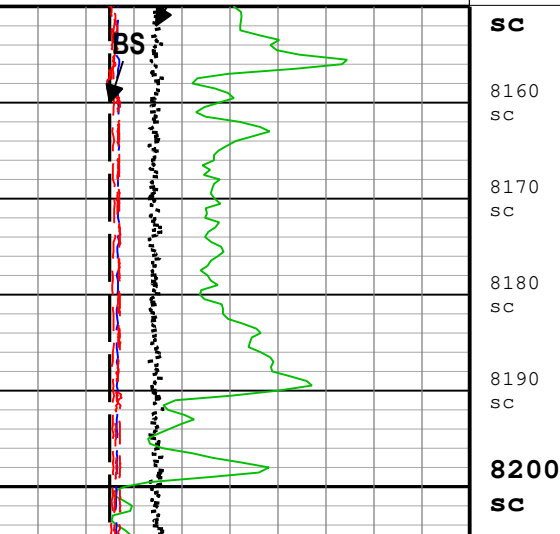
6 in 16

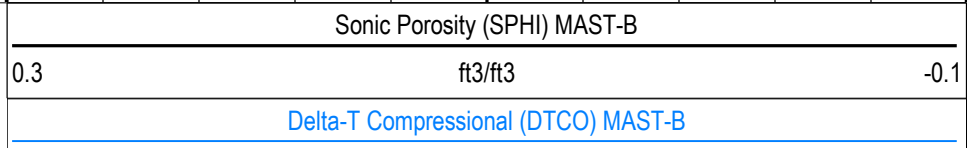
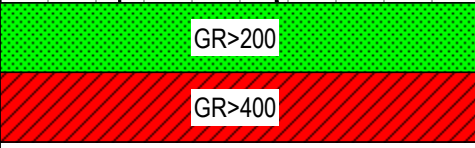
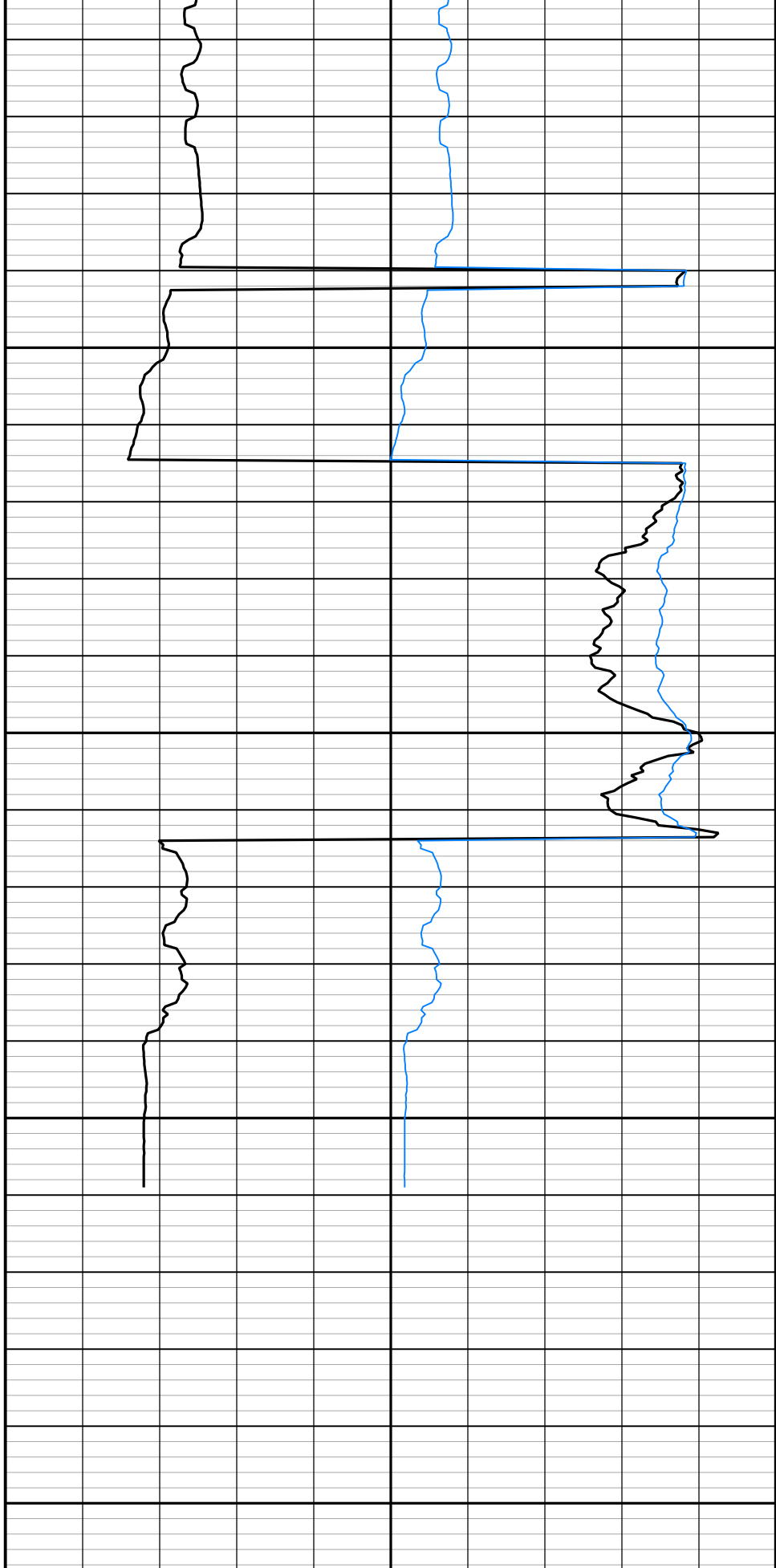
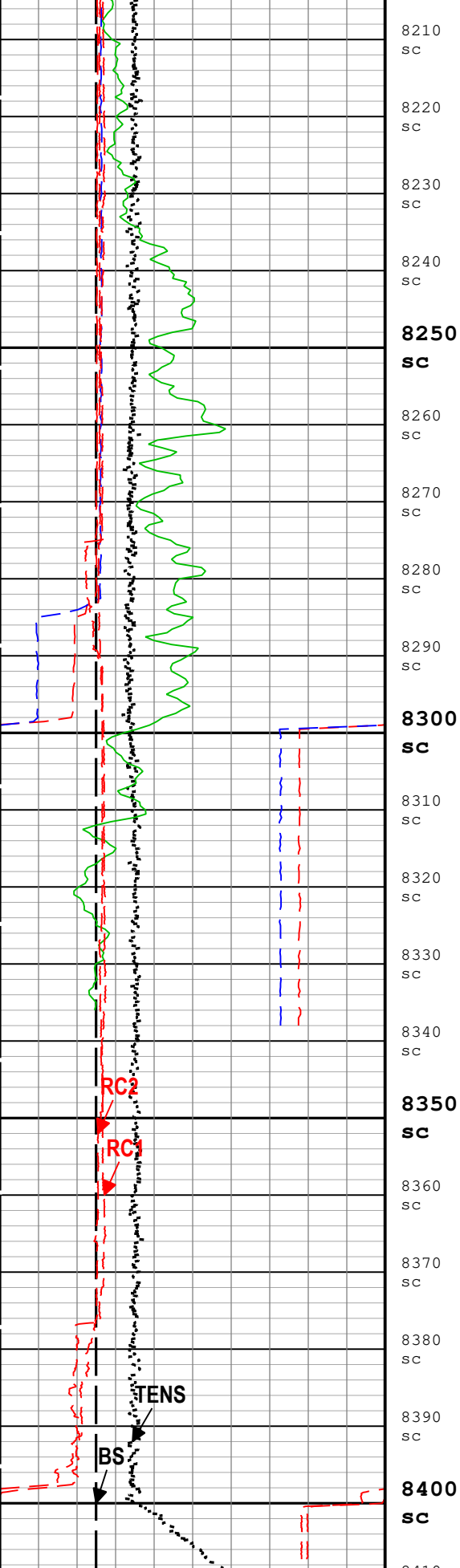
Raw C1 (RC1) FBST-E

6 in 16

Raw C2 (RC2) FBST-E

6 in 16





6	Bit Size (BS) R1	16
	in	
Cable Tension (TENS)		
6000	lbf	0
Gamma Ray (ECGR_EDTC) EDTC-B		
0	gAPI	200
Hole Diameter 1 (HD1_PPC1) PPC-B		
6	in	16
Hole Diameter 2 (HD2_PPC1) PPC-B		
6	in	16
Raw C1 (RC1) FBST-E		
6	in	16
Raw C2 (RC2) FBST-E		
6	in	16

TIME_1900 - Time Marked every 60.00 (s)

Description: MAST_SONI_BHC Format: Log (BRADFORD MSIP BHC) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 17-Apr-2019 05:33:10

Channel Processing Parameters

1D: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHCCTL	Borehole Compensated Processing Control Flag	MAST-B	Off	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	8.5	in
CBLO	Casing Bottom (Logger)	WLSESSION	2543	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
CDS	Correction for Delta-T Shale, Empirical	Borehole	100	us/ft
DC_MODE	Depth Correction Mode	DepthCorrection	Post-processed Depth	
DET_STOP_MLM_M	Detection Stop Time for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	583	us
DET_STOP_MUM_M	Detection Stop Time for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	583	us
DET_STRT_MLM_M	Detection Start Time for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	106	us
DET_STRT_MUM_M	Detection Start Time for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	106	us
DFD	Drilling Fluid Density	Borehole	9.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTF	Delta-T Fluid	Borehole	189	us/ft
DTM	Delta-T Matrix	Borehole	56	us/ft
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FMDCTL_MLM_M	First Motion Detection Processing Control Flag for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	Off	
FMDCTL_MUM_M	First Motion Detection Processing Control Flag for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	Off	
FMDRS_MLM_M	First Motion Detection Receiver Selection for Monopole Lower Transmitter Mid Frequency Firing Monopole Component	MAST-B	[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]	
FMDRS_MUM_M	First Motion Detection Receiver Selection for Monopole Upper Transmitter Mid Frequency Firing Monopole Component	MAST-B	[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]	
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	HD1	
PBHCCTL	Pseudo Borehole Compensated Processing Control Flag	MAST-B	Off	

SFTY	Slowness Formation Type (Fast, Intermediate, Slow, etc.)	Borehole	Intermediate	
SPFS	Sonic Porosity Formula	Borehole	Raymer-Hunt	
Tool Control Parameters				
1D: Parameters				
Parameter	Description	Tool	Value	Unit
ACQ_DOMAIN	Custom Acquisition Domain Name	MAST-B	[UMMF, LMMF, FMMF, FMLF, XDCE, YDCE]	
ACQCTL	Acquisition Control	MAST-B	[1, 1, 1, 1, 1, 1]	
AMIP	Adaptive Mode Initial Phase	FBST-E	0	deg
APM	Acquisition Phase Mode	FBST-E	WBM - Adaptive Phase Control	
CBOOTSTA_MAPC	MAMS Controller Boot Status	MAST-B	1	
CONTROLLER_FIRM_REV_MAPC	MAPC Firmware Revision of Controller Electronics	MAST-B	1840	
COMPCTL	Data Compression Control	MAST-B	[MZIPA, MZIPA, MZIPA, MZIPD, MZIPD, MZIPD]	
DHMODALCTL	Downhole/Surface Modal Computation Control	MAST-B	[HALF, OFF, OFF, HALF, HALF, HALF]	
DIGDEL	Waveform Digitizing Delay	MAST-B	[0, 0, 0, 0, 0, 0]	us
DIGDT	Sonic Waveform Digitizing Slowness	MAST-B	[0, 0, 0, 0, 0, 0]	us/ft
DIGTIME	Digitizing Time	MAST-B	[2550, 2550, 5110, 20440, 30480, 30480]	us
DIIN_WF_CHN	Dipole Inline Component Waveform Data Channel Name	MAST-B	[,,, ,SW90C_090, SW00C_000]	
DIIN_WFN_CHN	Dipole Inline Component Waveform Normalization Data Channel Name	MAST-B	[,,, ,SW90CN_090, SW00CN_000]	
DIOF_WF_CHN	Dipole Offline Component Waveform Data Channel Name	MAST-B	[,,, ,SW90C_000, SW00C_090]	
DIOF_WFN_CHN	Dipole Offline Component Waveform Normalization Data Channel Name	MAST-B	[,,, ,SW90CN_000, SW00CN_090]	
EMXGMOD	EMEX and Gain Modes	FBST-E	Time Zoned	
FBEF	EMEX Filtering Activation	FBST-E	Off	
FDFL	DSP Filter Length	FBST-E	1	
FLM	Logging Mode	FBST-E	Full Image Mode	
GAIN_FBST	Electronic Gain Value in Manual Mode	FBST-E	0 dB	
GARM_A	Electronic Gain Value for Arm A	FBST-E	0 dB	
GARM_B	Electronic Gain Value for Arm B	FBST-E	0 dB	
GARM_C	Electronic Gain Value for Arm C	FBST-E	0 dB	
GARM_D	Electronic Gain Value for Arm D	FBST-E	0 dB	
GNINT	Automatic Gain Selection Time Interval	MAST-B	[2550, 2550, 5110, 20440, 30480, 30480]	us
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	Time Zoned	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	[SWMUM_M, SWMLM_M, SWMFM_M, SWMFL_M, SW90C_M, SW00C_M]	
MONO_WFN_CHN	Monopole Component Waveform Normalization Data Channel Name	MAST-B	[SWMUMN_M, SWMLMN_M, SWMFMN_M, SWMFLN_M, SW90CN_M, SW00CN_M]	
MPSC	Manual Phase Shift Compensation	FBST-E	0	deg
MSMT_LIST	Measurement List	MAST-B	[MUM, MLM, MFM, MFL, 90C, 00C]	
NUMMSMT	Number of active measurements	MAST-B	6	
PROD_MASTUI	MAST Product Class Selection	MAST-B	STD	
SENSOR10_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #10	MAST-B	1057	
SENSOR11_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #11	MAST-B	1057	
SENSOR12_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #12	MAST-B	1057	
SENSOR13_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #13	MAST-B	1057	
SENSOR1_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #1	MAST-B	1057	
SENSOR2_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #2	MAST-B	1057	
SENSOR3_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #3	MAST-B	1057	
SENSOR4_FIRM_REV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #4	MAST-B	1057	

MAST-B (Multimode Array Sonic Service Tool) Calibration - Run 1D

CALI_SSCTF (Master)

Sensor Sensitivity Correction Factor Low Frequency Diagnostic Failure Flag

Minimum/Nominal/Maximum							Unit	
	RB1	RB2	RB3	RB4	RB5	RB6	RB7	RB8
SO1	1.006	0.966	0.955	0.942	0.947	0.971	1.002	1.022
SO2	1.017	0.997	0.968	0.959	0.978	1.016	1.023	1.023
SO3	1.004	0.976	0.978	0.948	0.987	0.996	1.023	1.014
SO4	1.020	0.979	0.970	0.955	0.962	0.992	1.024	1.018
SO5	1.022	0.997	0.975	0.965	0.973	0.990	1.022	1.037
SO6	1.031	0.992	0.987	1.000	0.996	0.998	1.029	1.033
SO7	1.000	0.977	0.992	0.989	1.032	1.048	1.026	0.994
SO8	0.982	0.958	0.981	1.006	1.005	1.010	1.017	0.994
SO9	0.965	0.960	0.989	1.001	1.009	1.019	1.006	0.973
SO10	0.973	0.981	1.015	1.039	1.034	1.026	1.009	0.975
SO11	0.952	0.952	1.010	1.019	1.001	0.992	0.982	0.959
SO12	0.971	0.970	1.020	1.037	1.027	1.014	1.000	0.985
SO13	0.980	0.988	1.045	1.077	1.080	1.049	1.007	0.981

CALI_SSCTF (Master)

Sensor Sensitivity Correction Transmitter Failure Flag

Minimum/Nominal/Maximum		0/0/0	Unit
Monopole Upper Transmitter		0	
Monopole Lower Transmitter		0	

CALI_SSCHF (Master)

Sensor Sensitivity Correction High Frequency Diagnostic Failure Flag

Minimum/Nominal/Maximum							Unit	
	RB1	RB2	RB3	RB4	RB5	RB6	RB7	RB8
SO1	0	0	0	0	0	0	0	0
SO2	0	0	0	0	0	0	0	0
SO3	0	0	0	0	0	0	0	0
SO4	0	0	0	0	0	0	0	0
SO5	0	0	0	0	0	0	0	0
SO6	0	0	0	0	0	0	0	0
SO7	0	0	0	0	0	0	0	0
SO8	0	0	0	0	0	0	0	0
SO9	0	0	0	0	0	0	0	0
SO10	0	0	0	0	0	0	0	0
SO11	0	0	0	0	0	0	0	0
SO12	0	0	0	0	0	0	0	0
SO13	0	0	0	0	0	0	0	0

CALI_SSCLF (Master)

Sensor Sensitivity Correction Low Frequency Diagnostic Failure Flag

Minimum/Nominal/Maximum							Unit	
	RB1	RB2	RB3	RB4	RB5	RB6	RB7	RB8
SO1	0	0	0	0	0	0	0	0
SO2	0	0	0	0	0	0	0	0
SO3	0	0	0	0	0	0	0	0
SO4	0	0	0	0	0	0	0	0
SO5	0	0	0	0	0	0	0	0
SO6	0	0	0	0	0	0	0	0
SO7	0	0	0	0	0	0	0	0
SO8	0	0	0	0	0	0	0	0
SO9	0	0	0	0	0	0	0	0
SO10	0	0	0	0	0	0	0	0
SO11	0	0	0	0	0	0	0	0
SO12	0	0	0	0	0	0	0	0
SO13	0	0	0	0	0	0	0	0

SO8	0	0	0	0	0	0	0	0
SO9	0	0	0	0	0	0	0	0
SO10	0	0	0	0	0	0	0	0
SO11	0	0	0	0	0	0	0	0
SO12	0	0	0	0	0	0	0	0
SO13	0	0	0	0	0	0	0	0

CALI_SSCHA (Master) Sensor Sensitivity Correction High Frequency Normalized Amplitudes								
Minimum/Nominal/Maximum ----/1.000/----							Unit	
	RB1	RB2	RB3	RB4	RB5	RB6	RB7	RB8
SO1	0.999	0.921	0.949	0.954	1.053	1.067	1.001	1.064
SO2	1.035	1.042	0.986	0.996	1.004	1.017	0.994	0.932
SO3	0.933	1.031	1.064	0.938	0.943	1.024	1.020	0.980
SO4	0.981	1.021	0.958	0.967	0.960	1.030	1.023	1.035
SO5	1.054	1.002	1.024	1.086	0.971	0.996	0.996	0.966
SO6	1.000	1.023	1.015	0.995	0.998	1.038	0.970	0.945
SO7	0.985	1.009	1.008	1.000	0.999	0.995	0.974	1.018
SO8	0.996	1.027	1.038	0.991	1.003	0.993	1.001	0.968
SO9	1.088	1.040	0.959	1.040	0.954	1.004	0.996	0.991
SO10	1.026	1.077	0.922	0.997	1.003	0.904	0.979	1.027
SO11	1.127	1.060	0.985	1.001	1.004	0.999	0.926	0.892
SO12	1.051	0.994	0.961	1.006	0.954	1.066	1.040	0.958
SO13	1.007	0.993	0.910	0.941	1.073	0.901	1.029	1.075

CALI_SSCLA (Master) Sensor Sensitivity Correction Low Frequency Normalized Amplitudes								
Minimum/Nominal/Maximum ----/1.000/----							Unit	
	RB1	RB2	RB3	RB4	RB5	RB6	RB7	RB8
SO1	1.005	0.890	0.906	0.899	0.997	1.036	1.003	1.088
SO2	1.053	1.038	0.954	0.955	0.983	1.033	1.017	0.953
SO3	0.937	1.006	1.041	0.889	0.930	1.020	1.043	0.994
SO4	1.000	1.000	0.929	0.923	0.924	1.022	1.048	1.054
SO5	1.077	0.999	0.998	1.048	0.945	0.986	1.018	1.001
SO6	1.030	1.015	1.001	0.995	0.994	1.036	0.999	0.976
SO7	0.985	0.986	1.000	0.989	1.031	1.043	1.000	1.012
SO8	0.978	0.983	1.018	0.997	1.008	1.003	1.018	0.962
SO9	1.050	0.999	0.949	1.041	0.962	1.024	1.001	0.964
SO10	0.999	1.057	0.936	1.036	1.037	0.927	0.988	1.001
SO11	1.072	1.010	0.995	1.020	1.005	0.991	0.909	0.855
SO12	1.020	0.965	0.980	1.043	0.979	1.081	1.040	0.944
SO13	0.986	0.981	0.951	1.014	1.158	0.945	1.036	1.055

CALI_SSTRS (Master) Sensor Sensitivity Correction Transmitter-Receiver Spacing								
Minimum/Nominal/Maximum ----/4.000/----							Unit	ft
Monopole Upper Transmitter					4.000			
Monopole Lower Transmitter					4.000			

CALI_TTMUH (Master) Sensor Sensitivity Transit Time from Monopole Upper Transmitter High Frequency Firing								
Minimum/Nominal/Maximum 0/0/5000.000							Unit	us
	RB1	RB2	RB3	RB4	RB5	RB6	RB7	RB8
SO1	501.437	501.633	501.531	501.379	501.240	501.306	501.245	501.509

SO2	472.677	472.761	472.517	472.551	472.362	472.248	472.280	472.544
SO3	443.567	443.496	443.791	443.403	443.223	443.379	443.297	443.088
SO4	414.552	414.820	414.692	414.602	414.435	414.331	414.423	414.662
SO5	385.588	385.788	385.914	385.896	385.441	385.303	385.385	385.436
SO6	356.591	356.886	356.822	356.859	356.522	356.477	356.480	356.650
SO7	327.646	328.075	327.918	327.812	327.544	327.570	327.515	327.526
SO8	298.533	298.750	298.803	298.723	298.624	298.572	298.568	298.608
SO9	269.668	269.740	269.741	269.822	269.462	269.502	269.406	269.525
SO10	240.718	240.652	240.557	240.553	240.603	240.475	240.627	240.739
SO11	211.860	211.783	211.646	211.406	211.538	211.673	211.660	211.935
SO12	182.804	182.665	182.521	182.347	182.407	182.600	182.750	182.846
SO13	153.582	153.205	152.663	152.544	152.764	153.043	153.572	153.705

CALI_TTMLH (Master)		Sensor Sensitivity Transit Time from Monopole Lower Transmitter High Frequency Firing						
Minimum/Nominal/Maximum		0/0/5000.000						Unit us
	RB1	RB2	RB3	RB4	RB5	RB6	RB7	RB8
SO1	150.743	151.079	150.925	150.976	150.874	150.809	150.638	150.818
SO2	180.141	180.092	179.911	179.935	179.761	179.734	179.827	179.947
SO3	208.865	209.098	209.093	208.881	208.621	208.780	208.777	208.908
SO4	237.737	237.969	237.949	237.723	237.672	237.616	237.718	237.842
SO5	266.766	266.896	267.046	267.036	266.612	266.473	266.553	266.615
SO6	295.817	296.059	296.065	295.990	295.805	295.749	295.678	295.724
SO7	324.931	325.127	324.999	324.958	324.803	324.734	324.794	324.824
SO8	353.655	353.862	353.799	353.601	353.601	353.596	353.745	353.838
SO9	383.119	382.977	382.860	382.791	382.691	382.646	382.704	382.983
SO10	411.965	411.880	411.660	411.474	411.539	411.707	411.966	412.096
SO11	441.155	440.799	440.426	440.187	440.478	440.694	440.957	441.167
SO12	470.104	469.756	469.382	469.088	469.248	469.584	469.988	470.097
SO13	499.201	498.726	498.113	497.900	498.200	498.507	499.209	499.392

CALI_AMPMUH (Master)		Sensor Sensitivity First Break Amplitude from Monopole Upper Transmitter High Frequency Firing						
Minimum/Nominal/Maximum		-50000.000/0/50000.000						Unit
	RB1	RB2	RB3	RB4	RB5	RB6	RB7	RB8
SO1	4646.036	4282.133	4412.718	4438.344	4896.132	4963.710	4657.301	4951.496
SO2	5162.033	5195.741	4914.653	4964.781	5008.925	5073.401	4956.534	4646.778
SO3	4856.193	5366.047	5539.402	4881.655	4907.967	5327.507	5307.179	5103.168
SO4	5412.563	5650.549	5291.379	5361.720	5310.050	5673.425	5628.032	5708.229
SO5	5959.744	5686.778	5827.464	6195.229	5541.419	5643.941	5626.317	5460.211
SO6	6057.792	6234.307	6184.982	6089.320	6058.565	6286.434	5877.310	5737.724
SO7	6247.376	6450.723	6447.239	6415.854	6371.856	6346.546	6163.837	6442.880
SO8	6561.679	6806.368	6927.126	6635.808	6685.646	6605.262	6618.839	6379.405
SO9	7316.122	7033.155	6501.450	7090.515	6436.272	6820.413	6718.093	6674.238
SO10	7377.371	7707.375	6569.507	7134.781	7200.207	6472.235	7019.223	7372.837
SO11	8627.219	8051.135	7389.320	7466.712	7493.580	7609.144	7038.131	6931.600
SO12	8635.294	7983.009	7551.118	7770.743	7458.720	8603.817	8605.359	7999.337
SO13	8384.972	7828.075	6826.396	6958.122	8114.178	7090.565	8564.581	9086.868

CALI_AMPLMH (Master)		Sensor Sensitivity First Break Amplitude from Monopole Lower Transmitter High Frequency Firing						
Minimum/Nominal/Maximum		-50000.000/0/50000.000						Unit

	RB1	RB2	RB3	RB4	RB5	RB6	RB7	RB8
SO1	6970.304	6617.916	6818.456	6997.654	7448.482	7568.404	6965.780	7438.403
SO2	7555.951	7552.416	7167.998	7225.341	7236.413	7318.038	7159.759	6715.711
SO3	6507.854	7209.132	7353.237	6521.191	6547.035	7078.031	7121.018	6885.060
SO4	6556.602	6812.825	6396.188	6433.097	6410.977	6895.027	6858.019	6930.516
SO5	6686.775	6335.949	6457.544	6825.997	6108.575	6303.832	6332.166	6132.704
SO6	6154.686	6263.742	6213.630	6066.091	6132.804	6395.315	5978.508	5802.006
SO7	5748.929	5839.183	5830.714	5767.378	5797.099	5777.318	5699.853	5949.198
SO8	5393.906	5522.833	5543.617	5272.728	5366.792	5327.716	5399.052	5237.458
SO9	5470.940	5200.723	4779.434	5156.769	4778.397	5001.729	4987.965	4971.609
SO10	4965.872	5237.644	4496.128	4842.690	4860.655	4393.671	4751.446	4970.630
SO11	5238.841	4929.152	4580.603	4653.425	4666.531	4644.977	4303.218	4145.490
SO12	4779.699	4523.653	4373.075	4574.977	4338.332	4849.195	4732.519	4356.253
SO13	4436.799	4377.507	4009.495	4149.066	4729.237	3970.160	4534.271	4739.397

CALI_AMPUL (Master)

Sensor Sensitivity First Break Amplitude from Monopole Upper Transmitter Low Frequency Firing

Minimum/Nominal/Maximum

-50000.000/0/50000.000

Unit

	RB1	RB2	RB3	RB4	RB5	RB6	RB7	RB8
SO1	-7086.183	-6102.333	-5904.188	-5661.757	-6655.660	-7276.531	-7189.104	-7720.879
SO2	-8736.147	-8454.844	-7525.191	-7349.006	-7799.305	-8376.833	-8416.437	-7846.708
SO3	-8628.901	-8946.450	-8912.436	-7722.049	-8243.869	-9093.774	-9658.502	-9199.921
SO4	-10017.610	-9680.700	-9259.001	-9285.161	-9399.719	-10375.910	-10828.370	-10831.150
SO5	-11229.120	-10344.470	-10689.390	-11296.230	-10063.260	-10677.250	-11106.100	-10817.550
SO6	-12486.790	-12487.320	-12394.100	-12336.270	-12592.910	-13358.890	-12582.660	-12158.480
SO7	-14329.490	-14335.610	-14543.170	-14377.410	-14997.220	-15167.470	-14541.350	-14716.810
SO8	-21005.910	-21113.670	-21851.410	-21401.900	-21646.260	-21537.140	-21857.180	-20657.070
SO9	-19669.660	-18712.660	-17773.780	-19505.780	-18034.840	-19184.650	-18762.470	-18065.780
SO10	-19856.650	-21009.090	-18607.420	-20597.980	-20624.700	-18441.120	-19649.670	-19912.760
SO11	-23303.390	-21943.090	-21623.250	-22157.600	-21839.610	-21541.810	-19761.310	-18578.360
SO12	-24536.110	-23215.980	-23585.980	-25099.540	-23562.450	-26007.120	-25018.630	-22702.780
SO13	-26376.280	-26242.720	-25428.180	-27117.120	-30985.800	-25275.340	-27712.110	-28225.210

CALI_AMPMLL (Master)

Sensor Sensitivity First Break Amplitude from Monopole Lower Transmitter Low Frequency Firing

Minimum/Nominal/Maximum

-50000.000/0/50000.000

Unit

	RB1	RB2	RB3	RB4	RB5	RB6	RB7	RB8
SO1	-24567.770	-21754.950	-22166.620	-21986.240	-24375.940	-25343.470	-24538.010	-26608.280
SO2	-22600.670	-22284.160	-20466.560	-20490.490	-21089.230	-22175.890	-21830.370	-20449.000
SO3	-18413.940	-19782.130	-20460.640	-17478.690	-18291.140	-20045.930	-20501.400	-19538.450
SO4	-17724.980	-17716.210	-16454.540	-16354.870	-16365.470	-18101.990	-18567.030	-18676.190
SO5	-16731.000	-15514.520	-15506.360	-16280.890	-14686.200	-15316.960	-15820.240	-15553.680
SO6	-14539.320	-14321.100	-14130.660	-14035.980	-14024.350	-14623.950	-14092.950	-13770.120
SO7	-14965.910	-15048.460	-15535.050	-15091.070	-14969.240	-14984.820	-15138.940	-15839.980
SO8	-10133.770	-10468.430	-10499.360	-9745.995	-10365.280	-10406.780	-10146.800	-9271.572
SO9	-9380.331	-9032.880	-8568.589	-9233.117	-8606.411	-9021.793	-8758.339	-8315.065
SO10	-8193.578	-8637.097	-7991.528	-8997.047	-8886.329	-7572.089	-8149.866	-8145.293
SO11	-8224.978	-7840.828	-8300.094	-8707.045	-8388.905	-7997.229	-7173.493	-6687.443
SO12	-7252.336	-7054.234	-7632.290	-8481.318	-7918.478	-8420.233	-7638.073	-6677.983
SO13	-6198.643	-6441.279	-6562.858	-7206.913	-8285.520	-6604.476	-6674.082	-6459.987

PPC-B (Powered Positioning device and Caliper.) Calibration - Run 1D

Primary Equipment :

PPC Diagnostics - Arm Close Position Test

Master:

PPC Diagnostics - Downhole Electronics Test

Master:

PPC Diagnostics - RBS Test

Master:

PPC Diagnostics - Cartridge Temperature Test

Master:

PPC Diagnostics - Power Control LVDT Test

Master:

PPC LVDT5 Master Calibration - PPC CaliCoefficients

Master (EEPROM): 10:54:00 09-Apr-2019

EDTC-B (Enhanced Digital Telemetry Cartridge - Version B) Calibration - Run 1D

Primary Equipment :	
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Calibration Parameter :

Plus Reference (Jig minus background reference)

165

EDTC-B Memory Data - EDTC-B Memory Data

Master (EEPROM): 03:12:27 17-Apr-2019

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Initial PMT HV	V	Master			1395.000			
Accelerometer Serial Number		Master			144			
Accelerometer Coefficients - 0		Master	----	----	2.938E+000	----		
Accelerometer Coefficients - 1		Master	----	----	2.077E-004	----		
Accelerometer Coefficients - 2		Master	----	----	7.563E-007	----		
Accelerometer Coefficients - 3		Master	----	----	-2.103E-008	----		
Accelerometer Coefficients - 4		Master	----	----	5.623E-010	----		
Accelerometer Coefficients - 5		Master	----	----	-4.367E-012	----		
Accelerometer Coefficients - 6		Master	----	----	1.152E-014	----		
Accelerometer Coefficients - 7		Master	----	----	-1.113E-003	----		
Accelerometer Coefficients - 8		Master	----	----	2.612E-005	----		
Accelerometer Coefficients - 9		Master	----	----	1.450E-007	----		
Accelerometer Coefficients - 10		Master	----	----	-1.743E-009	----		
Accelerometer Coefficients - 11		Master	----	----	3.857E-012	----		
Gamma-Ray Detector Serial Number		Master			79427			

Company:	North East Natural Energy LLC	Schlumberger
Well:	Boggess 17H	
Field:	Wildcat	
County:	Monongalia	
State:	West Virginia	
SONIC SCANNER		
BOREHOLE COMPENSATED SONIC		
GAMMA RAY / CALIPER		