



PIONEER

Pioneer Energy Services

**CEMENT BOND LOG
WITH GAMMA RAY**

Company **ENTRANSCO ENERGY, LLC**

Well **T. WIEBE NO.31-3**

Field **HAZLETT**

County **BUTLER** State **KANSAS**

Location: API #: 15-015-24108-00-00

Permanent Datum NE NE SE
2970' FNL & 330' FEL

SEC 31 TWP 23S RGE 05E

GRN/
PERF

Log Measured From KB 6' Elevation 1480'
Drilling Measured From KB Above Perm. Datum

K.B. 1486'
D.F. 1485'
G.L. 1480'

Comp. ENTRANSCO ENERGY, LLC
Well T. WIEBE NO.31-3
Field HAZLETT
Co. BUTLER
State KANSAS

Date of Service 10/30/2018

Run Number ONE

Depth Driller or PBTD 2590'

Depth Logger 2579'

Bottom Log Interval 2573'

Top Log Interval 1200'

Open Hole Size 7.875"

Type Fluid WATER

Fluid Level FULL

Fluid Density N/A

Max. Recorded Temperature 114 DEG F

Max. Wellhead Pressure 00 PSI

Wellhead Connection N/A

Estimated Cement Top 1410'

Unit Number 106

Wireline Size .288"

Location HAYS, KS

Recorded By M. HISS

Witnessed By RAY GILBERT

Size

WFt

Top

Bottom

8.625"

23#

00'

208'

5.5"

15.5#

00'

TD

Liner Record

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
NEWTON, KANSAS
EAST ON RD 150TH (FIRST ST.) TO PURITY SPRINGS RD,
SOUTH 2.5 MILES
WEST INTO

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew

Tool Data - Services

Serial Number

Engineer: M. HISS
Operator: K. PHANNENSTIEL
Operator:
Operator:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\transco_t_wiebe_31_3_cbl_grn.db
Dataset field/well/run1/pass5/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 114	CASEOD in 5.5	CASETHCK in 0.275	CASEWGHT lb/ft 15.5	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08
NPORSEL Limestone	NPORSHIFT 0	PERFS 0	PPT usec 0	SRFTEMP degF 70	TDEPTH ft 2579		

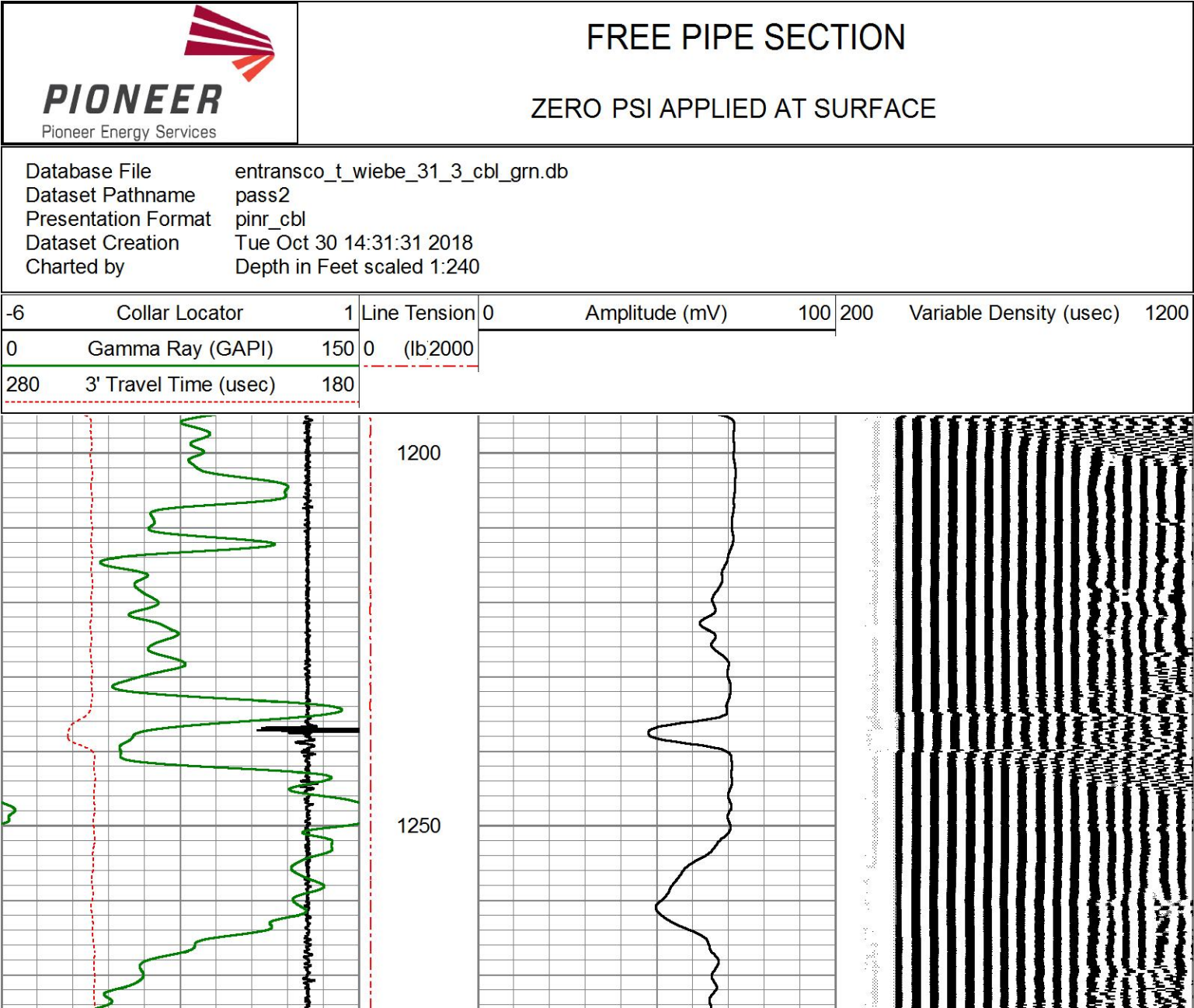
Variable Description

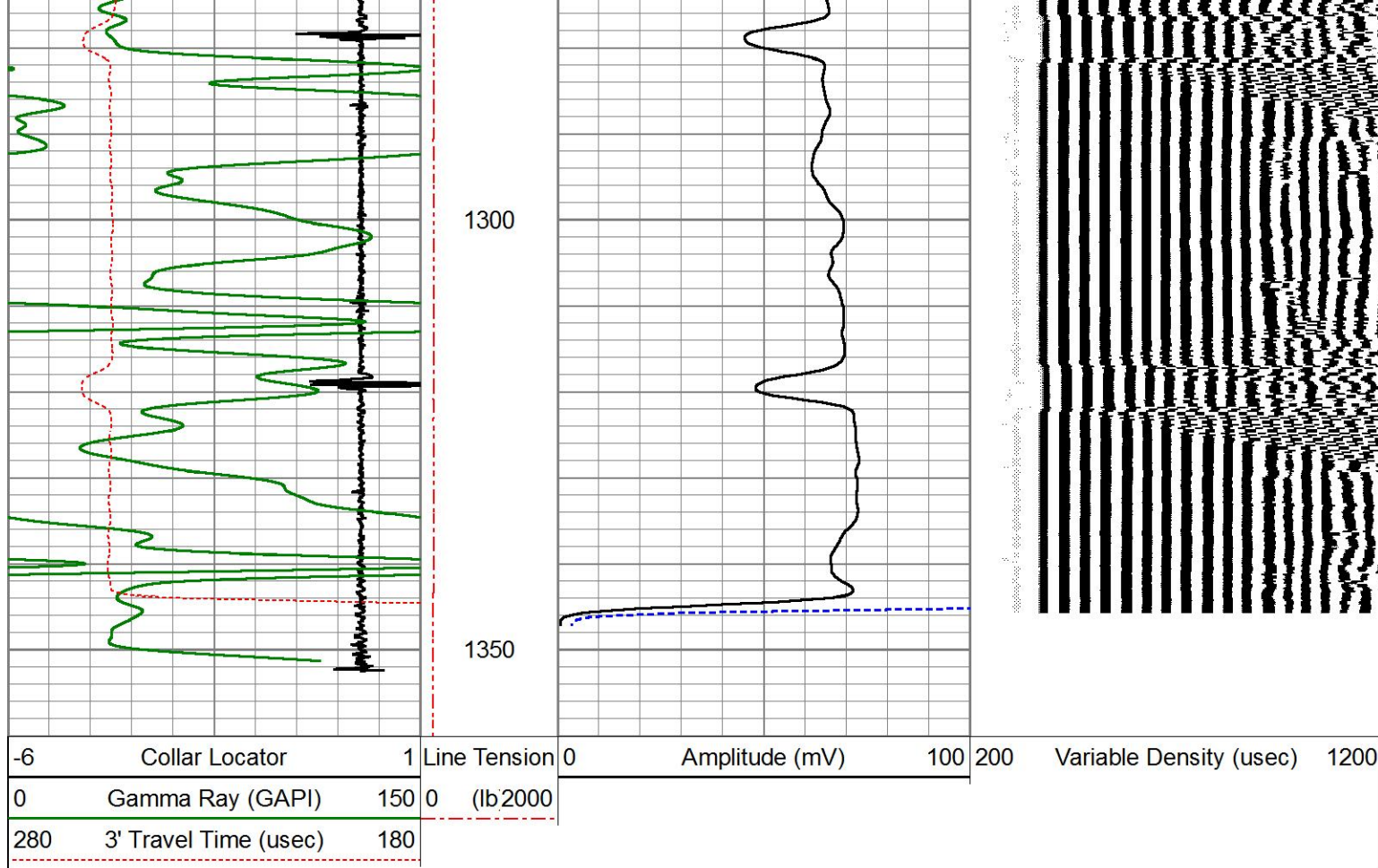
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude

MINATTN : Minimum Attenuation
NPORSEL : Neutron Porosity Curve Select
NPORSHIFT : NPORSHIFT
PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
WVFS8	16.35		PROBE-RBT-DIGITAL-RBL-D (080554) Probe 2 3/4" Radii Bond-Digital	8.75	2.75	100.00
WVFS7	16.35					
WVFS6	16.35					
WVFS5	16.35					
WVFS4	16.35					
WVFS3	16.35					
WVFS2	16.35					
WVFS1	16.35					
WVFCAL	16.35					
WV3FT	16.35					
WV5FT	15.35					
HEADVOLT	12.17		Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
CCL	8.39					

GR	7.08		PROBE-GR/CCL-DIGITAL-275 Probe GR-4.54 (11102.75 Probe 2 3/4" Gamma Ray / CCL DIGITAL			60.00
NEU	1.08		NEU-PRNEU (ProbeNEU1)	4.75	1.88	
Dataset: entransco_t_wiebe_31_3_cbl_grn.db: field/well/run1/pass5 Total length: 24.83 ft Total weight: 192.00 lb O.D.: 2.75 in						





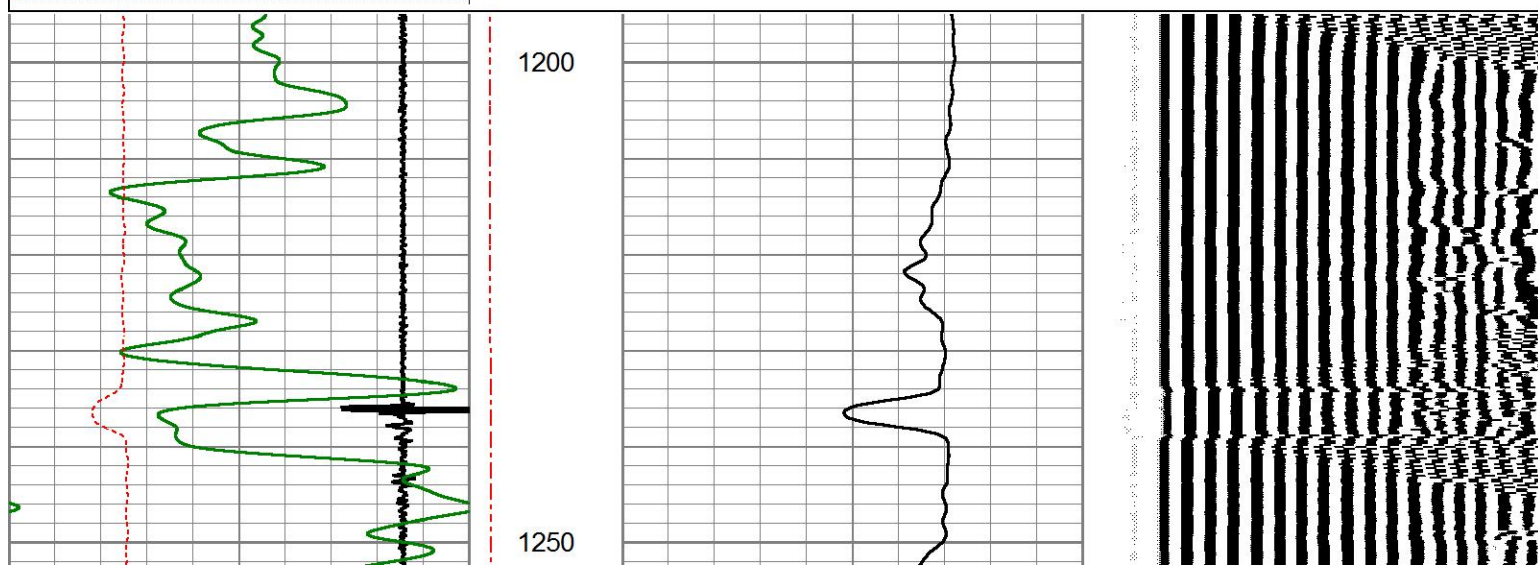
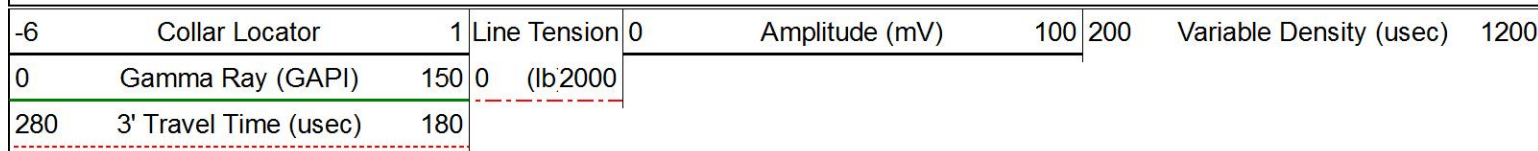


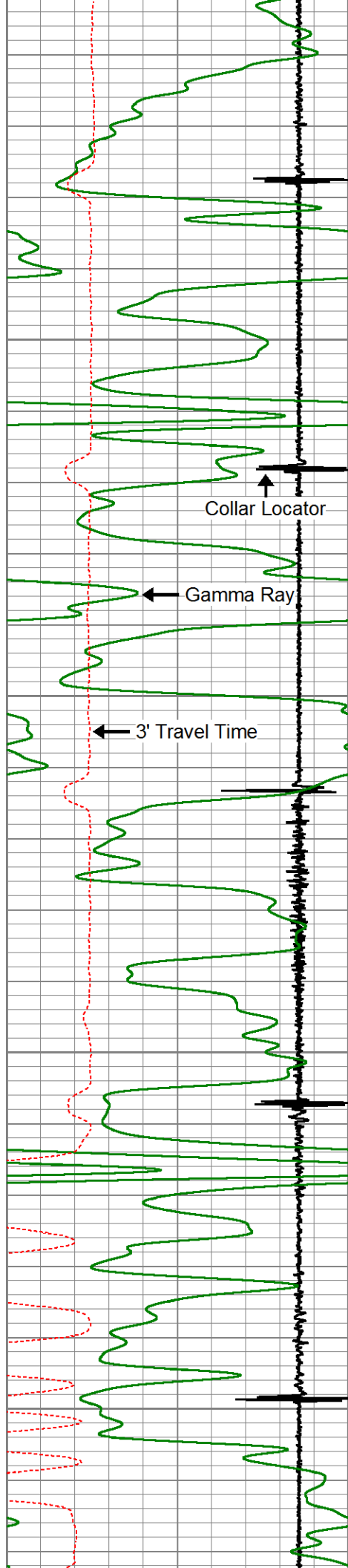
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MAIN LOG

ZERO PSI APPLIED AT SURFACE

Database File: entransco_t_wiebe_31_3_cbl_grn.db
 Dataset Pathname: pass5
 Presentation Format: pinr_cbl
 Dataset Creation: Tue Oct 30 14:50:35 2018
 Charted by: Depth in Feet scaled 1:240





1300

Collar Locator

Line Tension

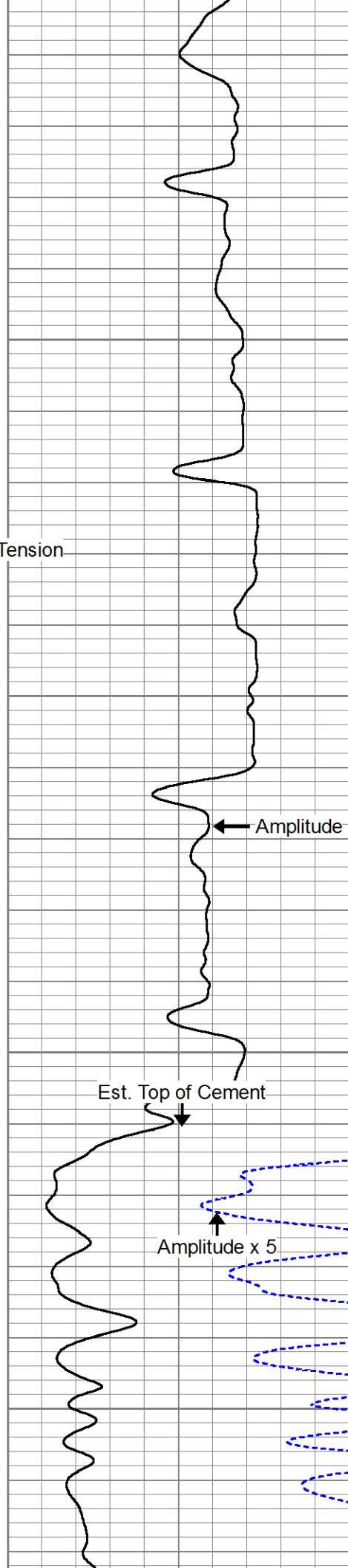
Gamma Ray

1350

3' Travel Time

1400

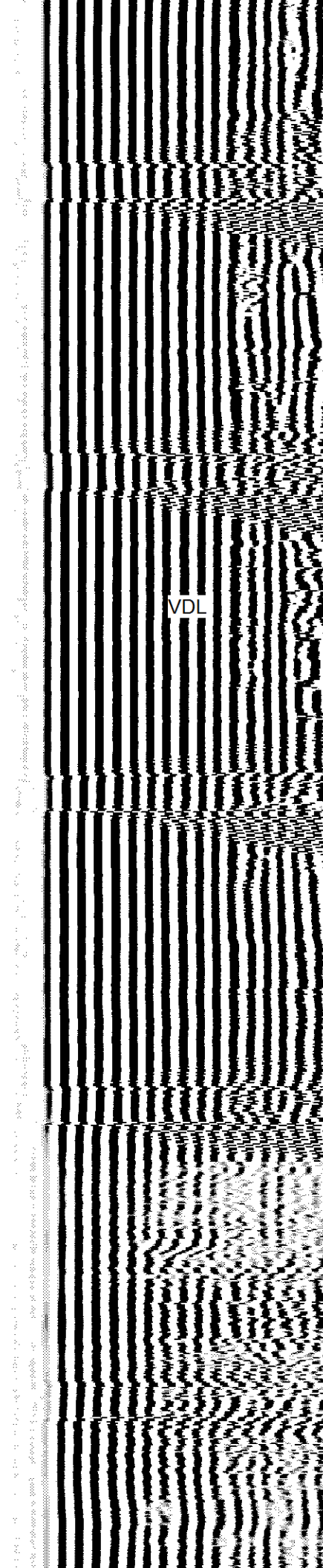
1450

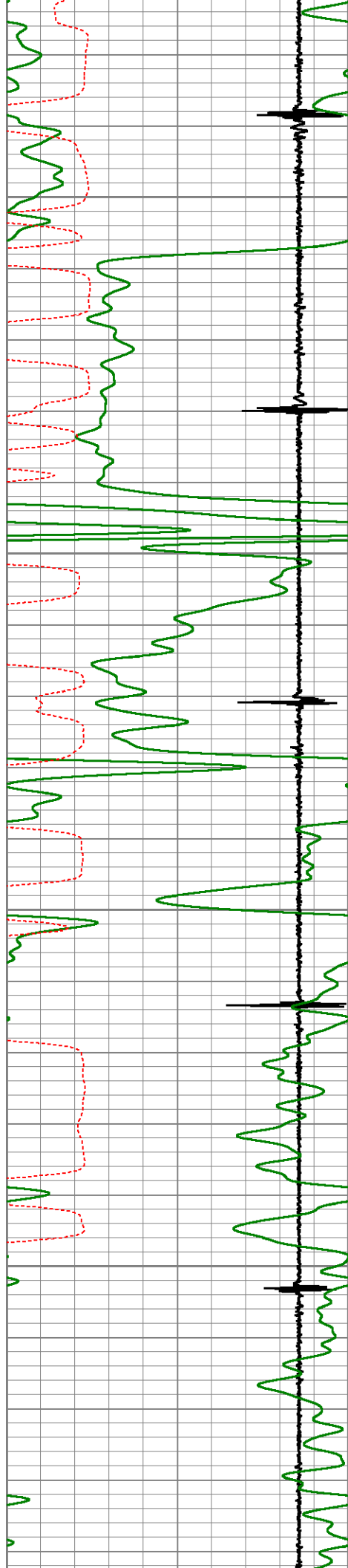


Amplitude

Est. Top of Cement

Amplitude x 5



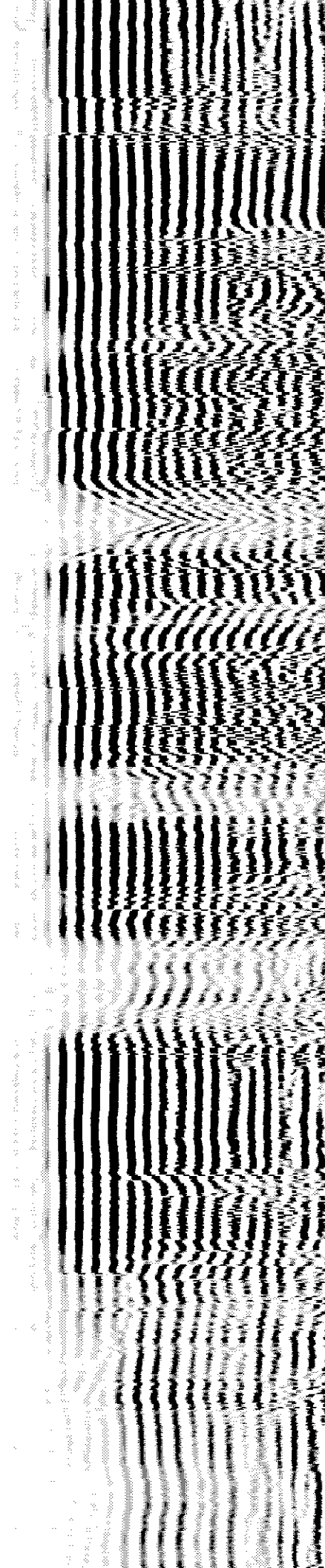
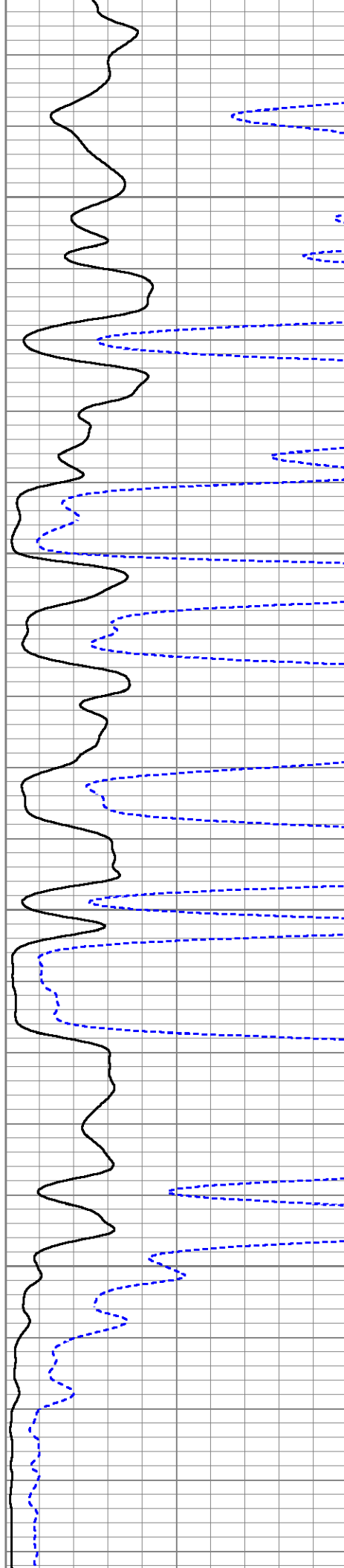


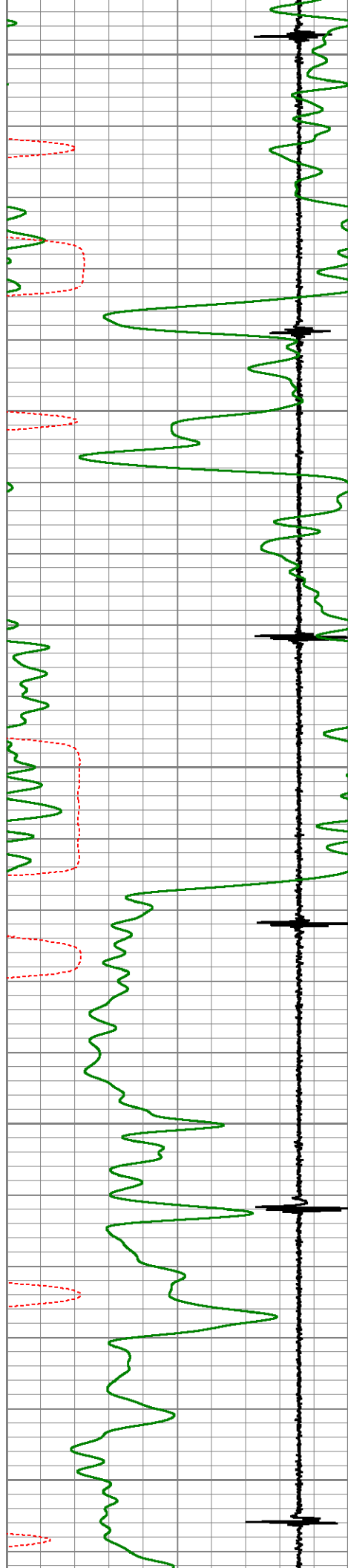
1500

1550

1600

1650





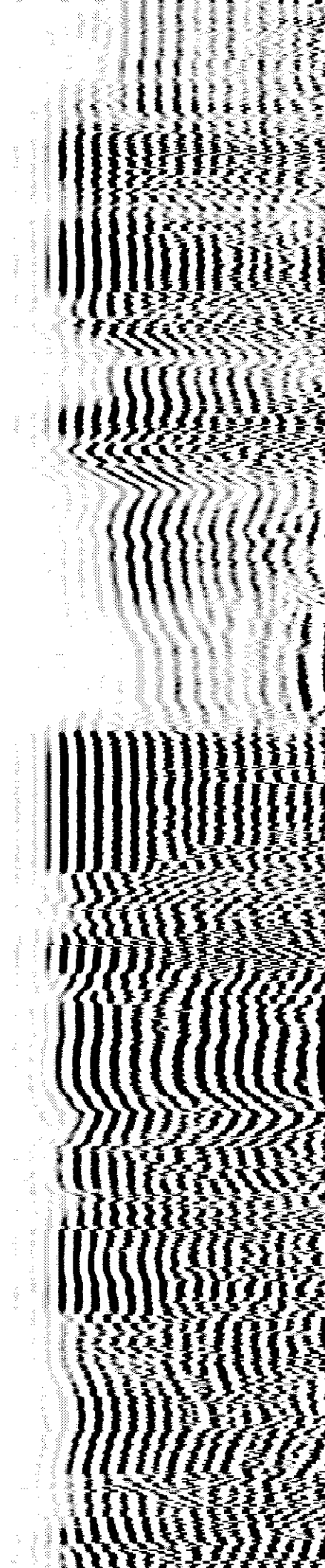
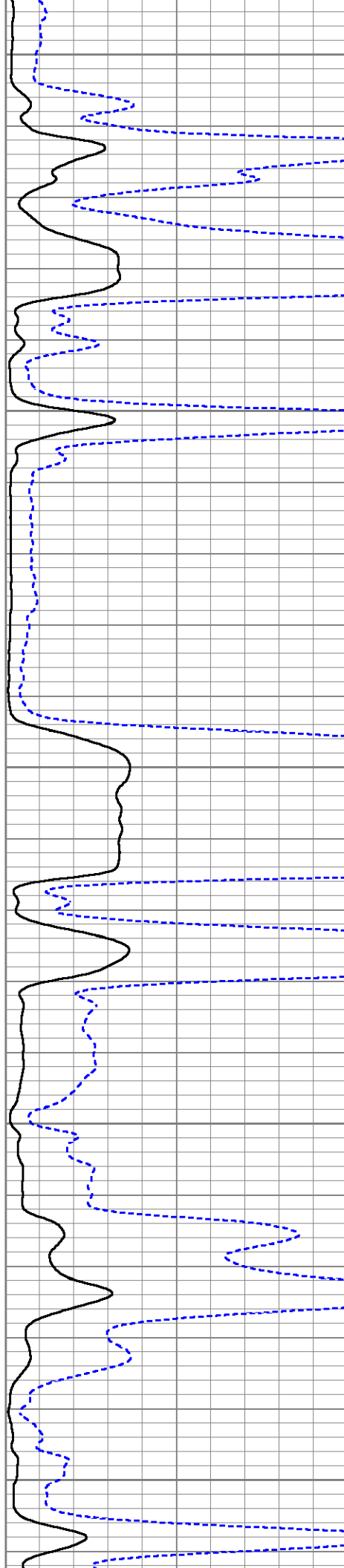
1700

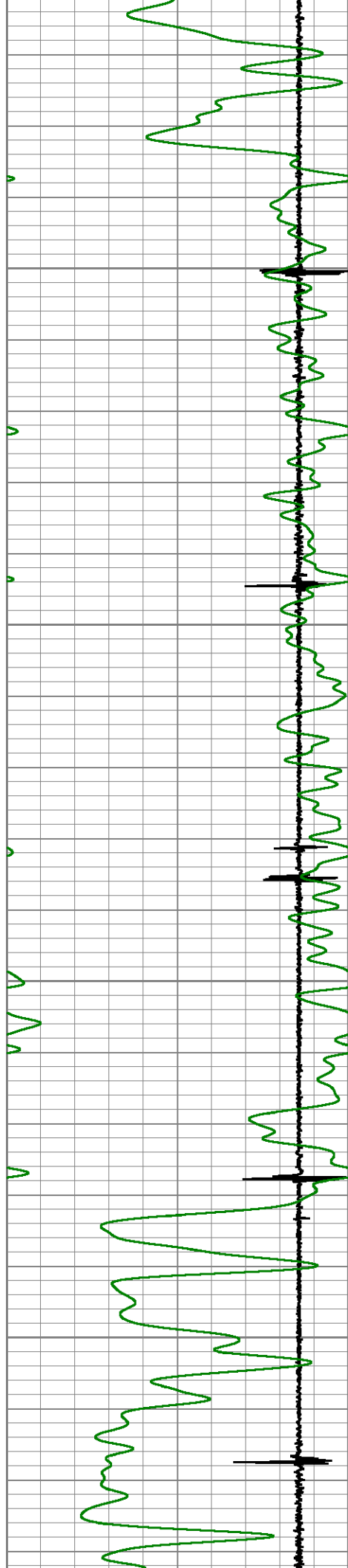
1750

1800

1850

1900



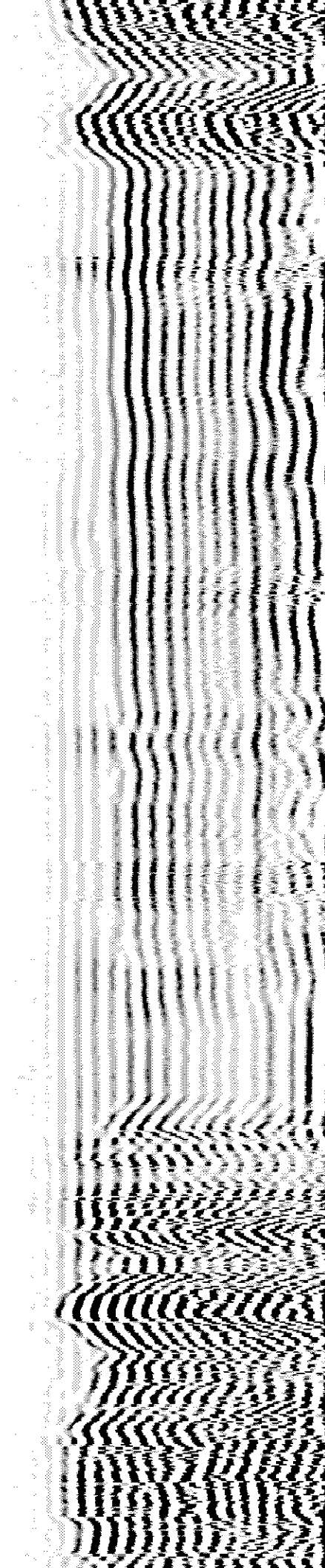
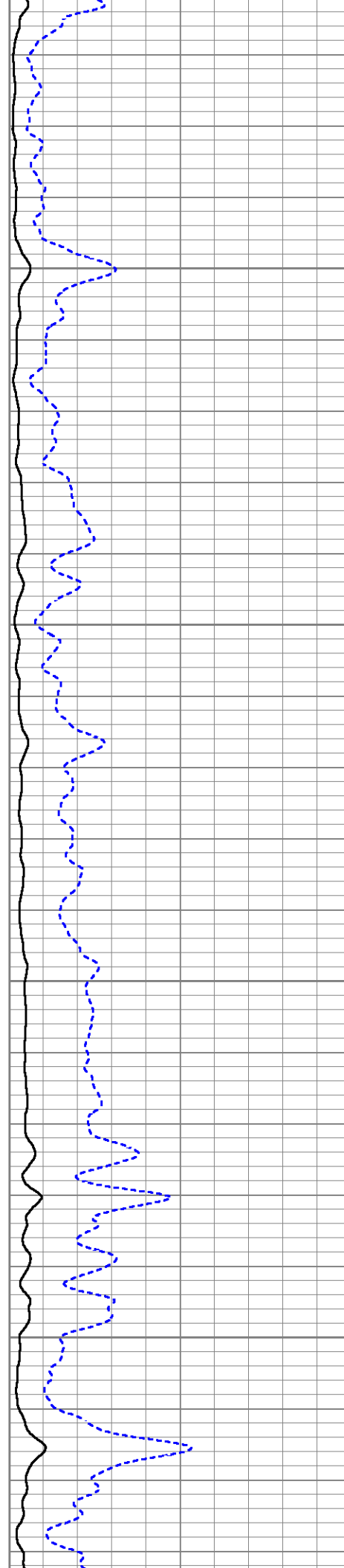


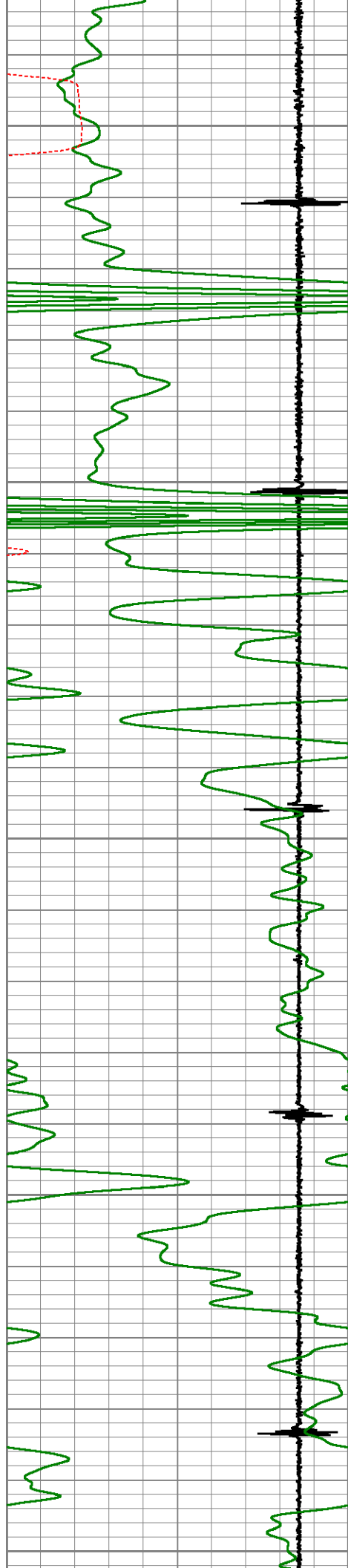
1950

2000

2050

2100





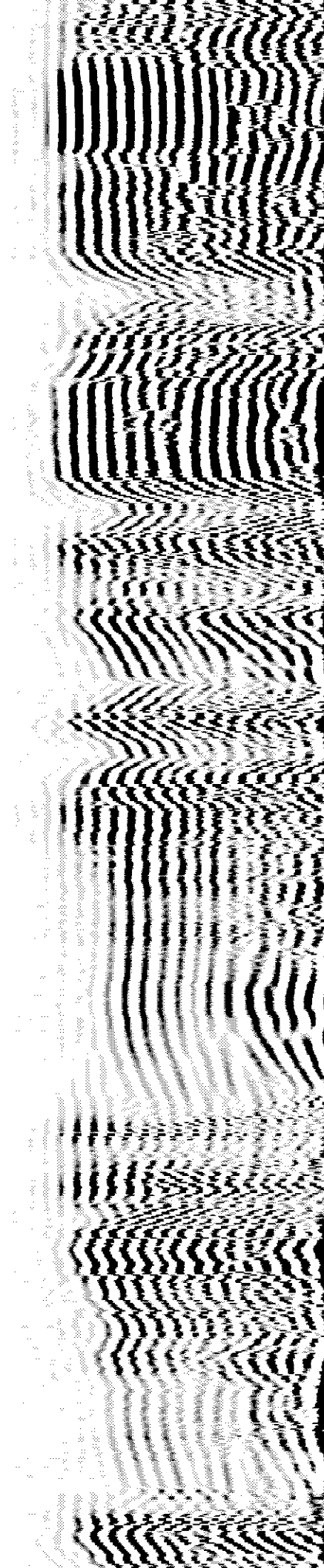
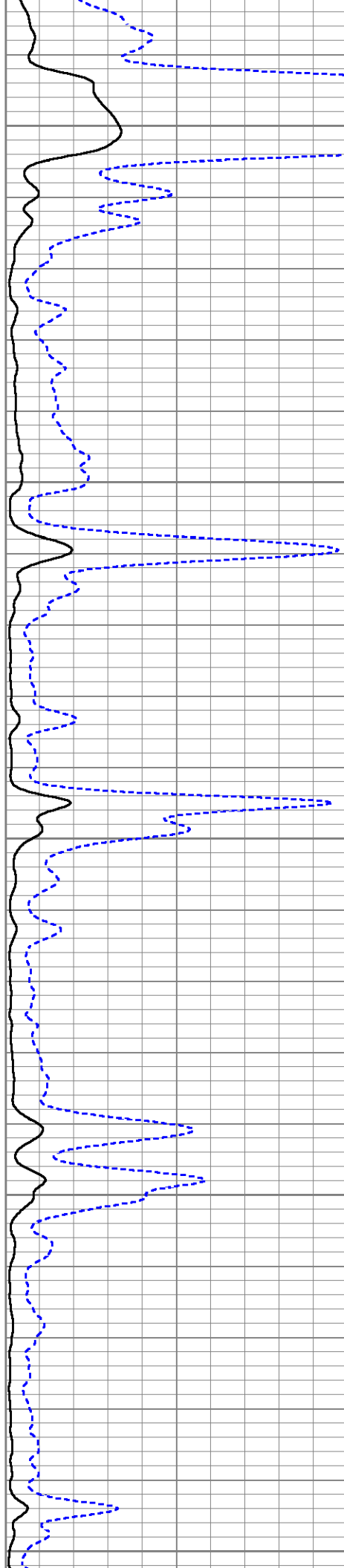
2150

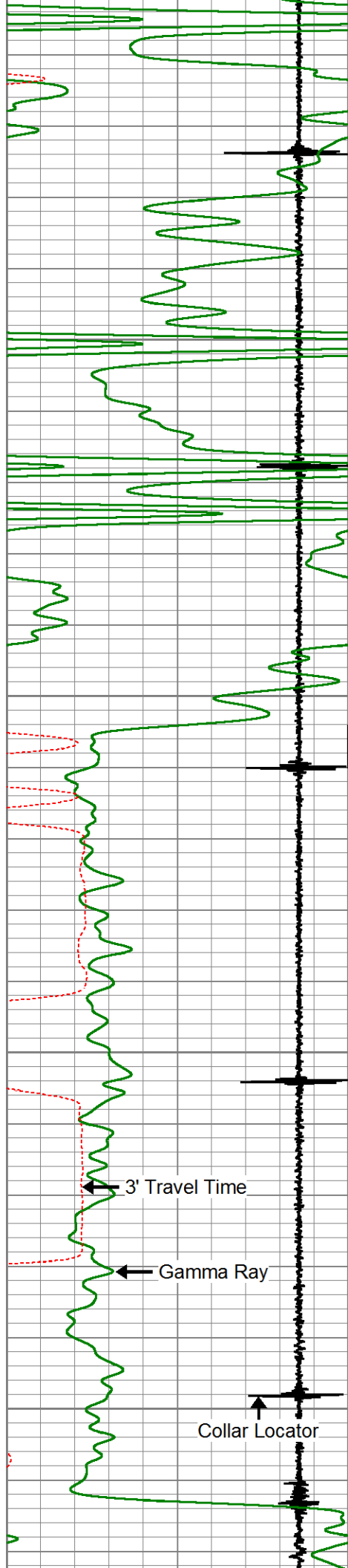
2200

2250

2300

2350





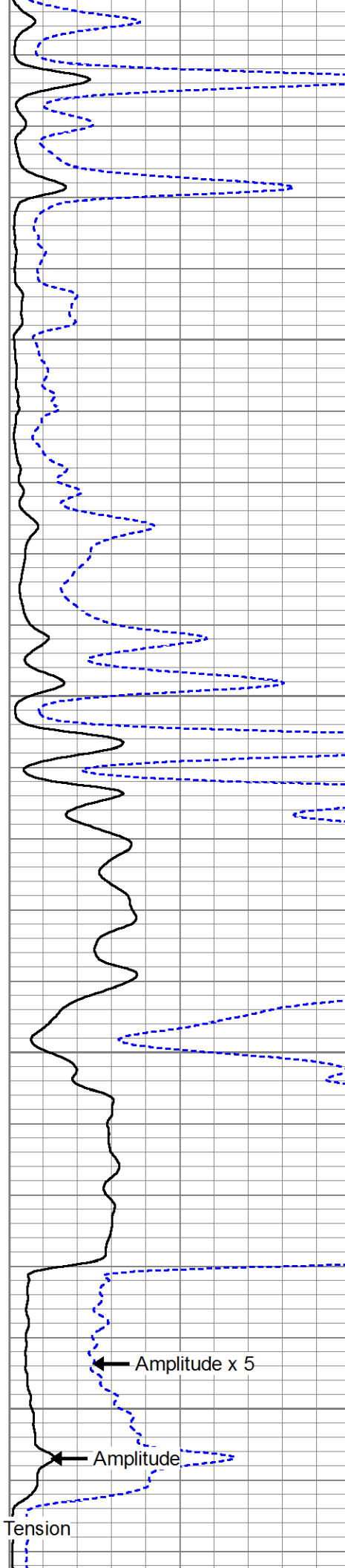
2400

2450

2500

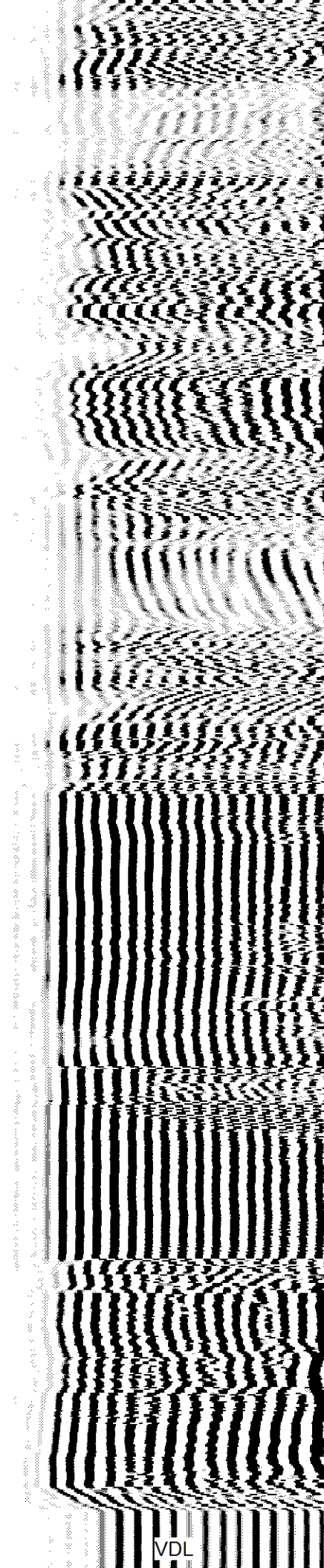
2550

Line Tension

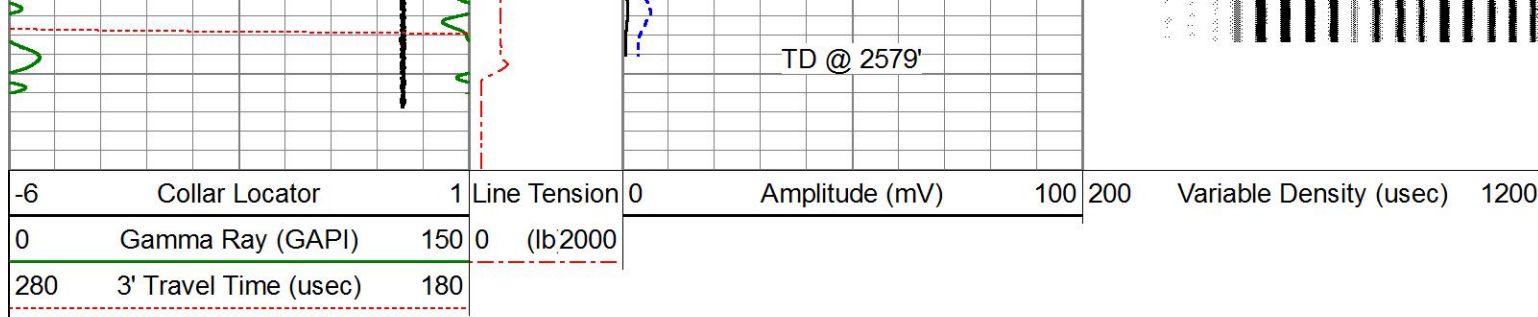


Amplitude x 5

Amplitude



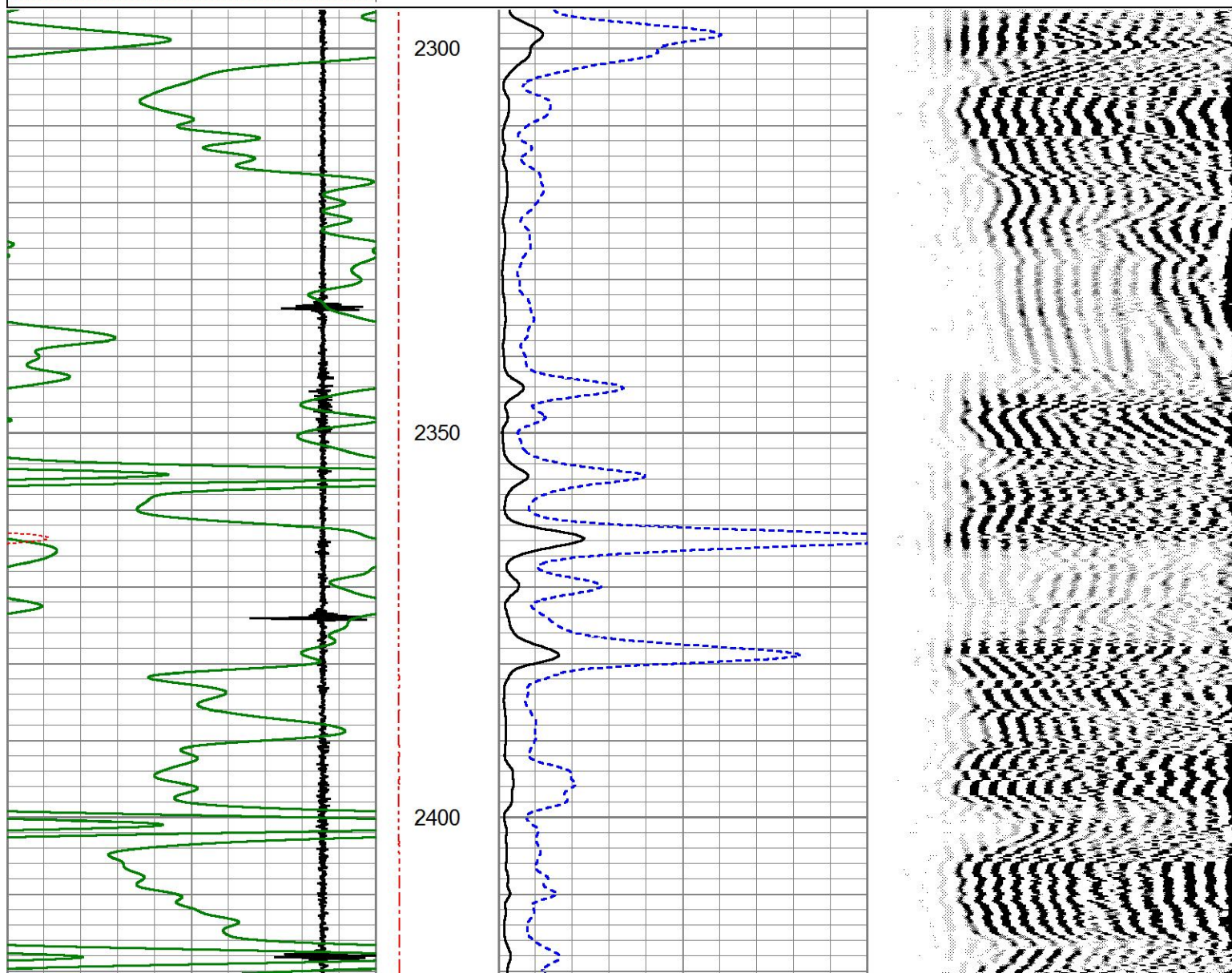
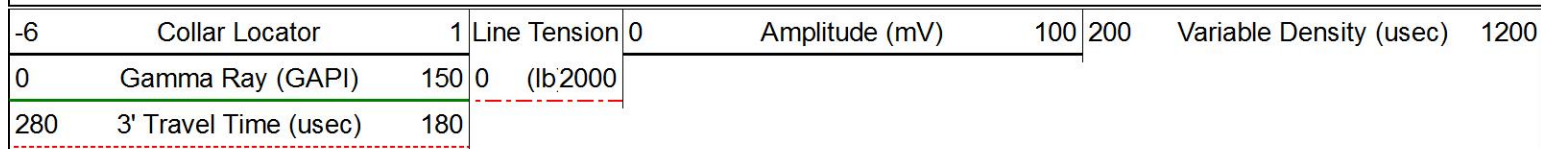
VDL

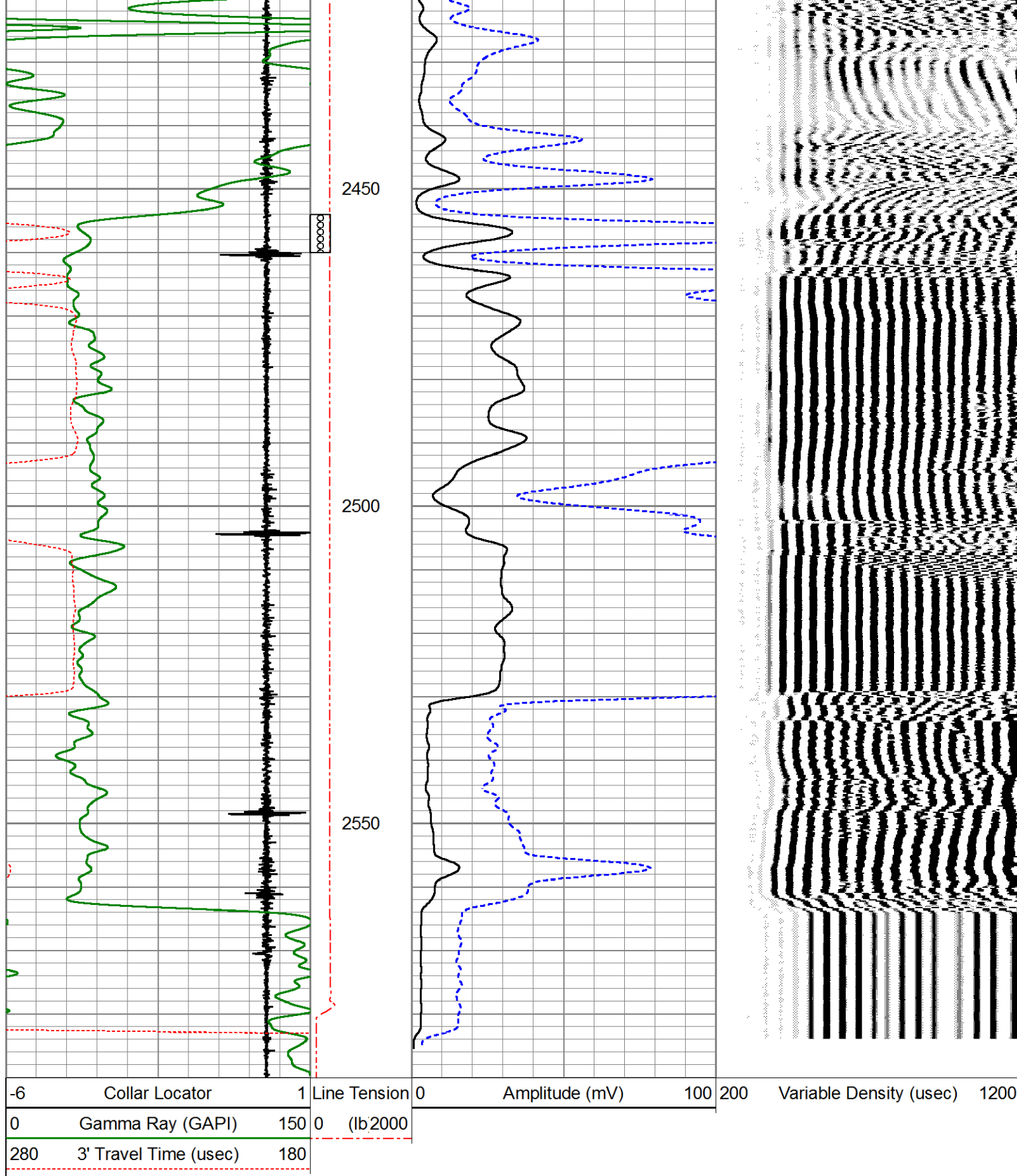


REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Database File entransco_t_wiebe_31_3_cbl_grn.db
 Dataset Pathname pass4
 Presentation Format pinr_cbl
 Dataset Creation Tue Oct 30 14:39:43 2018
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File entransco_t_wiebe_31_3_cbl_grn.db
Dataset Pathname pass4
Dataset Creation Tue Oct 30 14:39:43 2018

Neutron Calibration Report

Serial Number:
Tool Model:

ProbeNEU1
PRNEU

Tool Model:	PRNEU	
Performed:	(Not Performed)	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Gamma Ray Calibration Report

Serial Number:	111032	
Tool Model:	275 Probe GR-CCL	
Performed:	Wed Sep 26 09:20:51 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.1000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	080554	
Tool Model:	RBL-D	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	1340.426	ft

Master Calibration, performed Tue Oct 30 14:31:15 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	2.077	0.700	71.921	34.300	0.669
CAL	-0.003	2.282				
5'	0.001	2.071	0.700	71.921	34.398	0.683
SUM						
S1	0.033	1.942	0.000	100.000	52.367	-1.718
S2	0.011	1.977	0.000	100.000	50.851	-0.552
S3	0.013	2.054	0.000	100.000	48.988	-0.637
S4	0.015	2.124	0.000	100.000	47.425	-0.716
S5	0.016	2.179	0.000	100.000	46.227	-0.726
S6	0.016	2.206	0.000	100.000	45.676	-0.747
S7	0.012	2.156	0.000	100.000	46.631	-0.549
S8	0.003	1.997	0.000	100.000	50.158	-0.172

Air Zero Calibration, performed Tue Oct 30 14:15:31 2018:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000



Company	ENTRANSO ENERGY, LLC
Well	T. WIEBE NO.31-3
Field	HAZLETT
County	BUTLER
State	KANSAS