CEMENT BOND LOG

Company	Extraction Oil and Gas Inc.
Well	Trott 7W-10-16N
Field	Wattenberg
County	Weld
State	Colorado

Company Extraction Oil and Gas Inc.
Well Trott 7W-10-16N
Field Wattenberg
County Weld **State** Colorado

API # : 05-123-45707
Location: NE/SE
1548 FSL
1020 FEL

SEC: 7 TWP: 4N RGE: 68W

Other Services

Elevation
K.B. 5053
D.F. 5052
G.L. 5034

Permanent Datum: Ground Level Elevation: 5034
Log Measured From: Kelly Bushing , 29 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date			
Run Number	One		
Plug Back T.D. Driller	----		
Plug Back T.D. Logger	----		
Bottom Logged Interval	5848		
Top Log Interval	Surface		
Type Fluid	Water		
Density / Viscosity	----		
Max. Recorded Temp.	186		
Time Logger on Bottom	15:15		
Equipment Number	GD164		
Location	Casper		
Recorded By	Zach Fabre		
Witnessed By	Mr. Tores		

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8	36	29	1500				
5 1/2	20	29	11298				

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Ticket # : RM0618PCBW587
Your Crew Today: Pena, Yarbro
Log Correlated to: Surface

Cement Data	
Date Cemented	----
Primary / Squeeze	Primary
Type / Weight	----
Main Pass Press.	Zero
Repeat Pass Press.	Zero

Bond Index	
Index %	Est Top Depth
20 % Bond	138
40 % Bond	138
60 % Bond	877
80 % Bond	2874
100 % Bond	----

Comments

Estimated Top of Cement
(40% Bond Index) @ 138

Thank you for using Gyrodata

Eric Regnier: Rocky Mountain Wireline Manager EricR@Gyrodata.com

Log Variables

Databased:\warrior\data\20180604_trott 7w-10-16n_cbl\20180604_trott 7w-10-16n_cbl.db
Dataset field/well/run1/pass3.3/_vars_

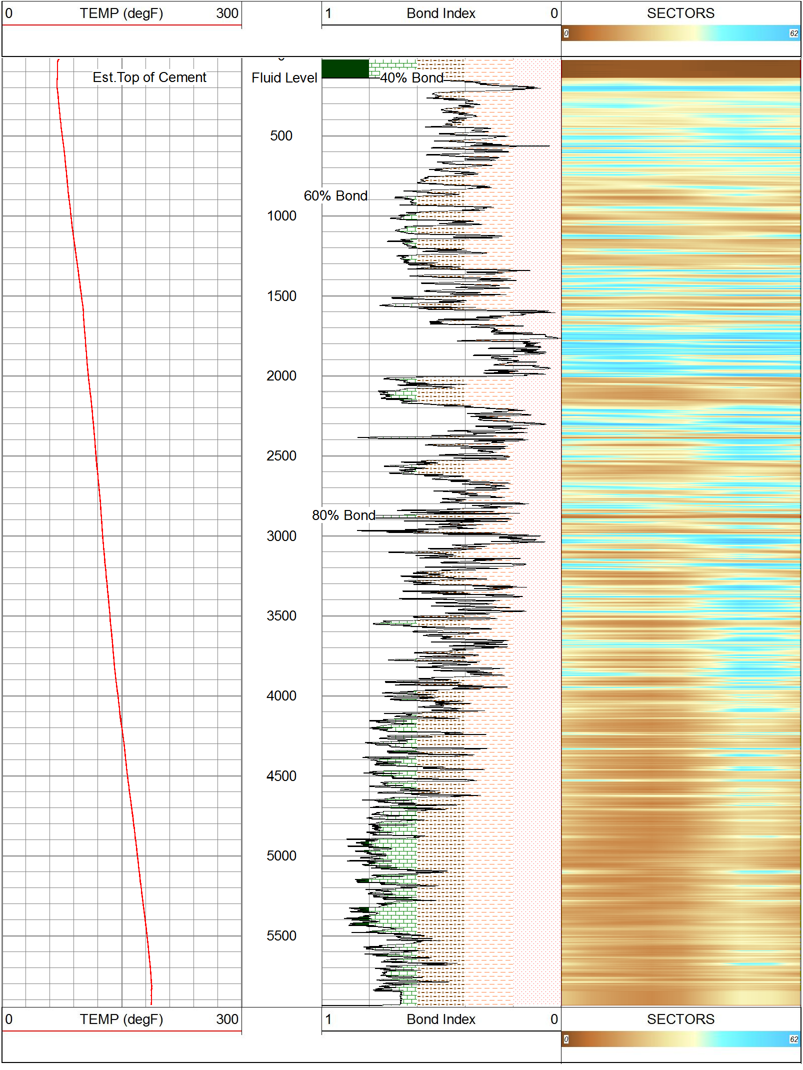
Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in
TEMP	8.5	100	5.5	0.415	23	71.9	4.829

MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec	TDEPTH ft
2.6	4.643	0	239	0

BOND INDEX

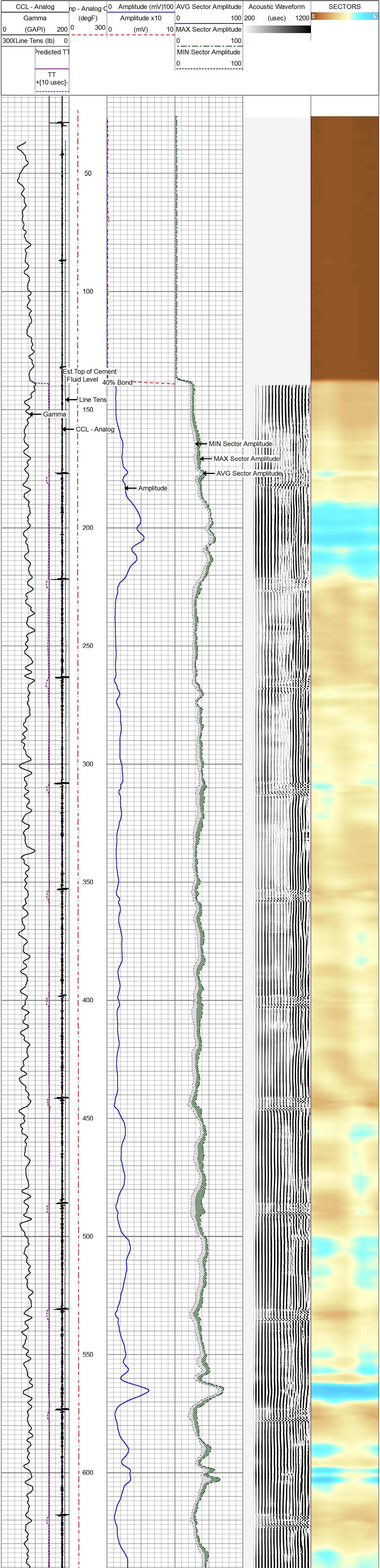
Database File	20180604_trott 7w-10-16n_cbl\20180604_trott 7w-10-16n_cbl.db
Dataset Pathname	bndindx
Presentation Format	BNDIND~1
Dataset Creation	Mon Jun 04 17:53:32 2018
Charted by	Depth in Feet scaled 1:7500

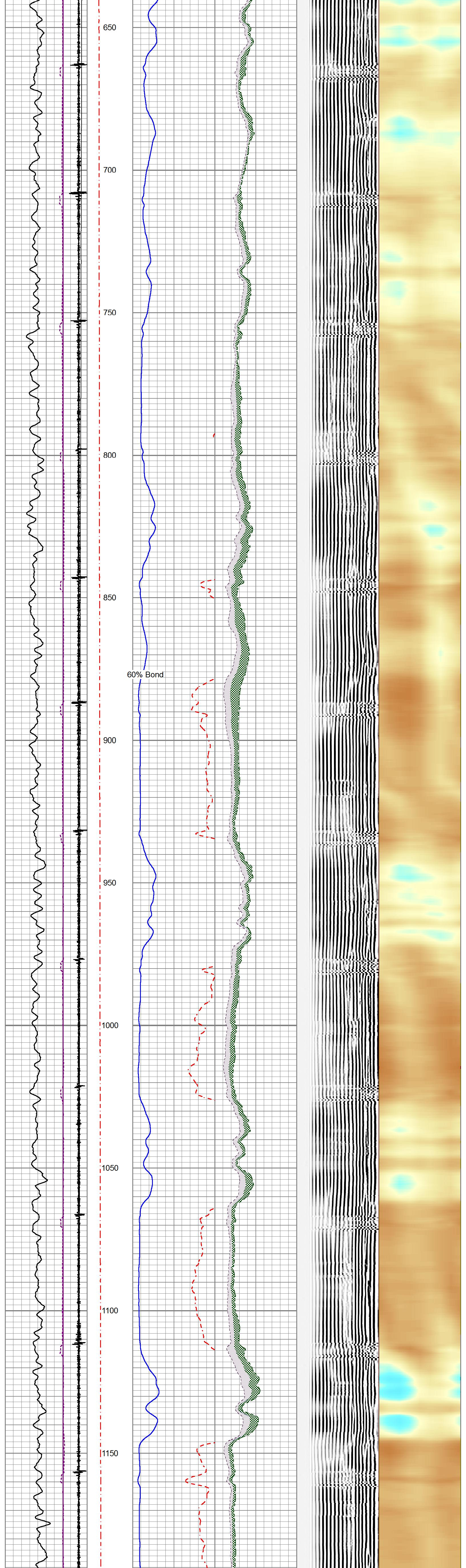


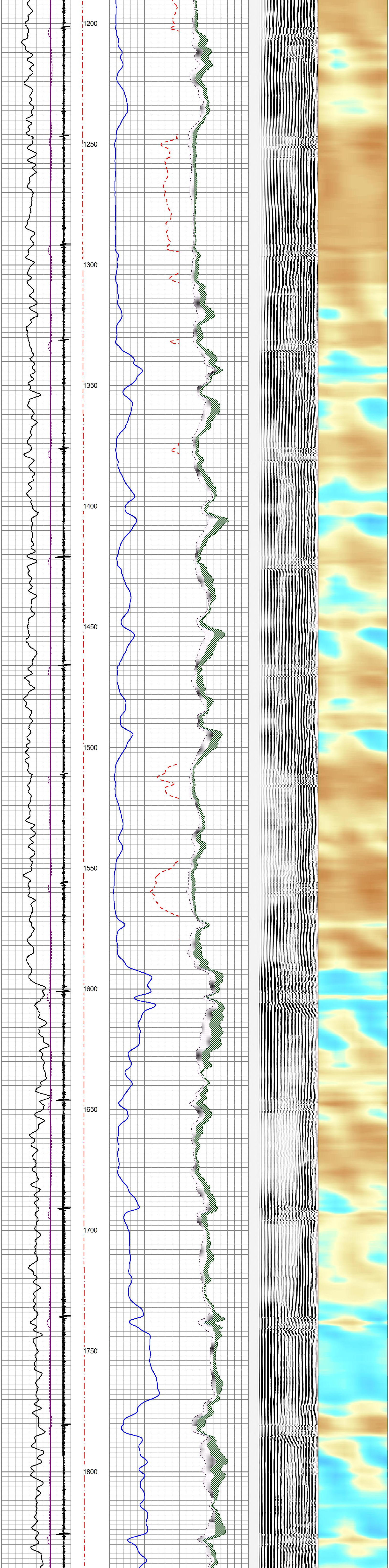
MAIN PASS - Ran with 0 PSI

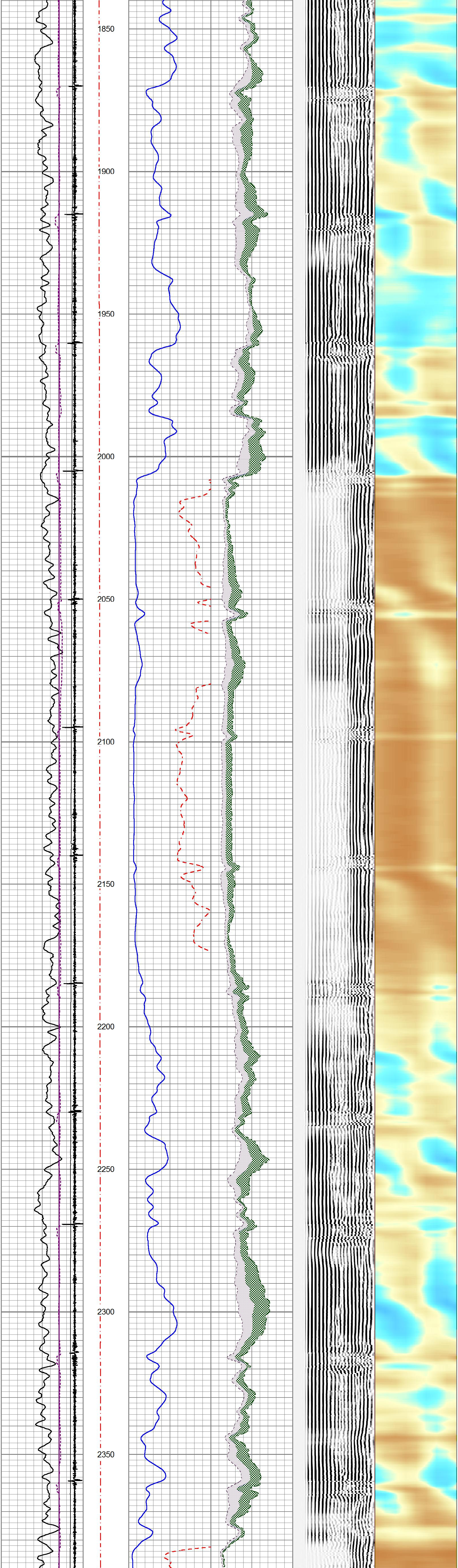
5 in / 100 ft

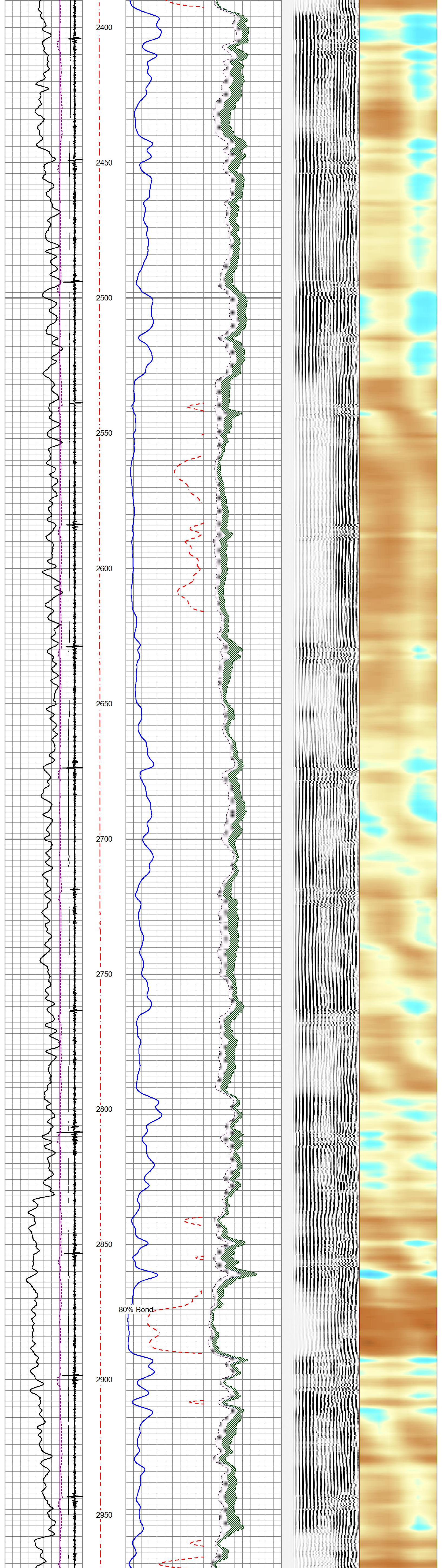
Database File	20180604_trott 7w-10-16n_cbl\20180604_trott 7w-10-16n_cbl.db
Dataset Pathname	pass3.3
Presentation Format	rcbl_8s
Dataset Creation	Mon Jun 04 17:49:30 2018
Charted by	Depth in Feet scaled 1:240

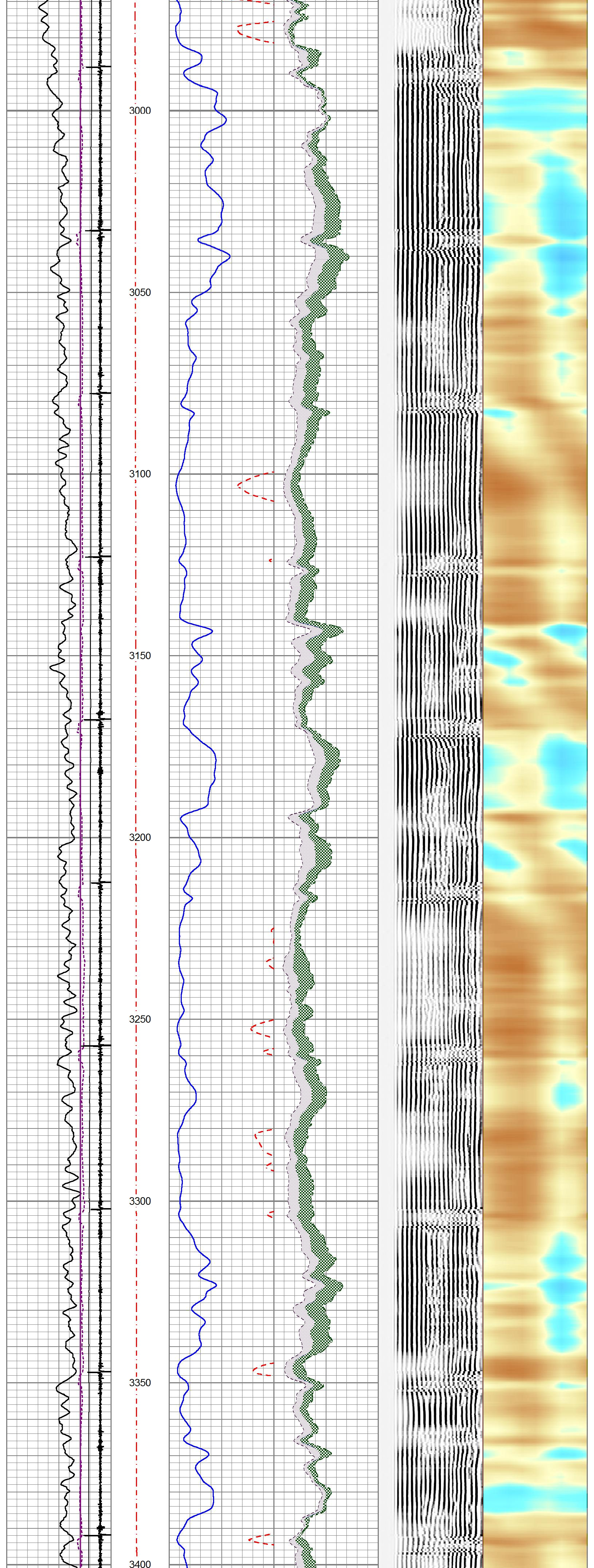


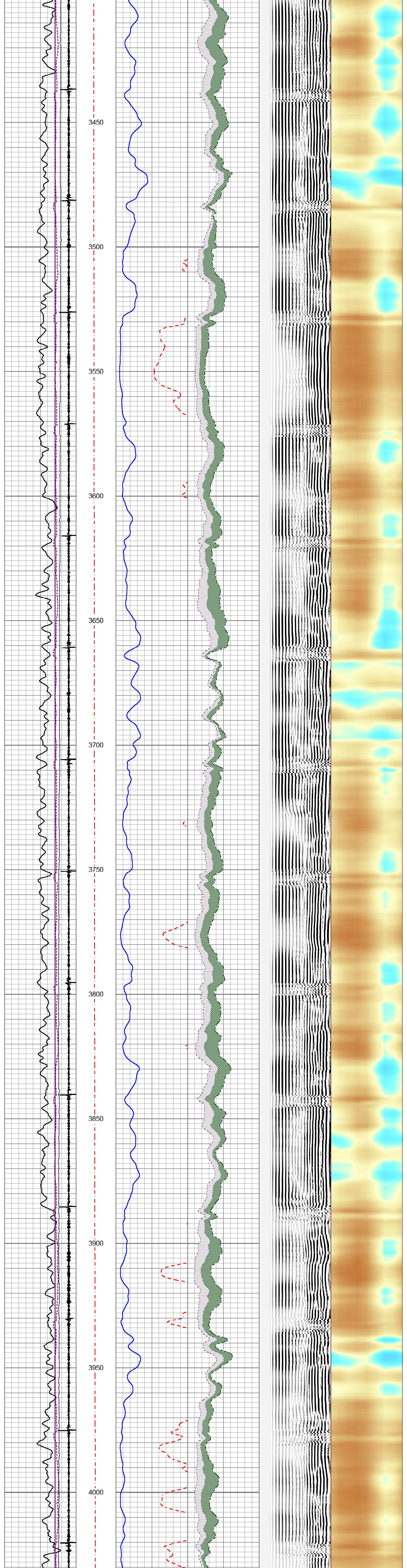


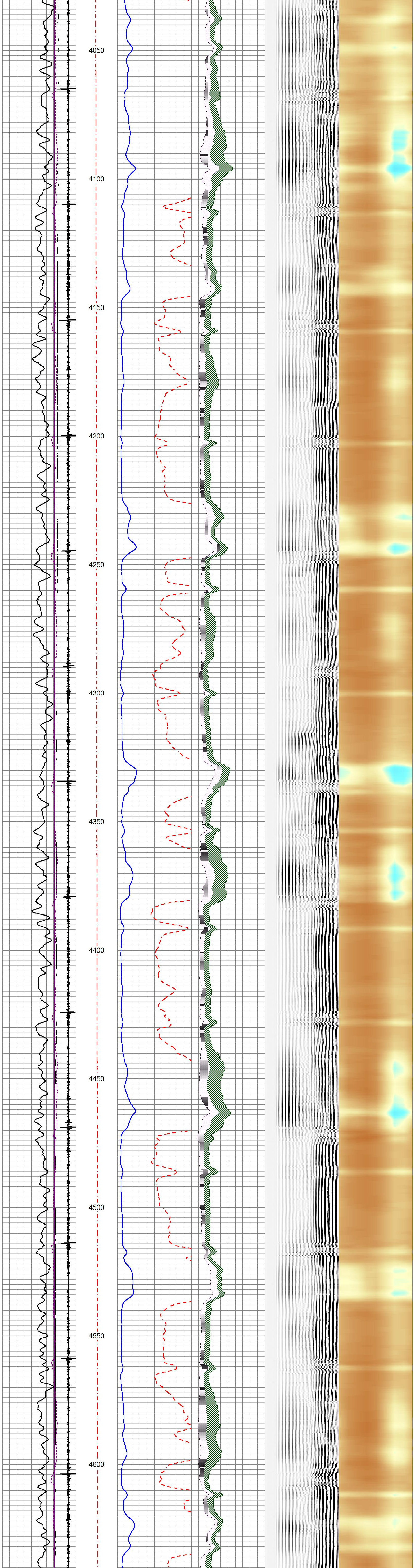


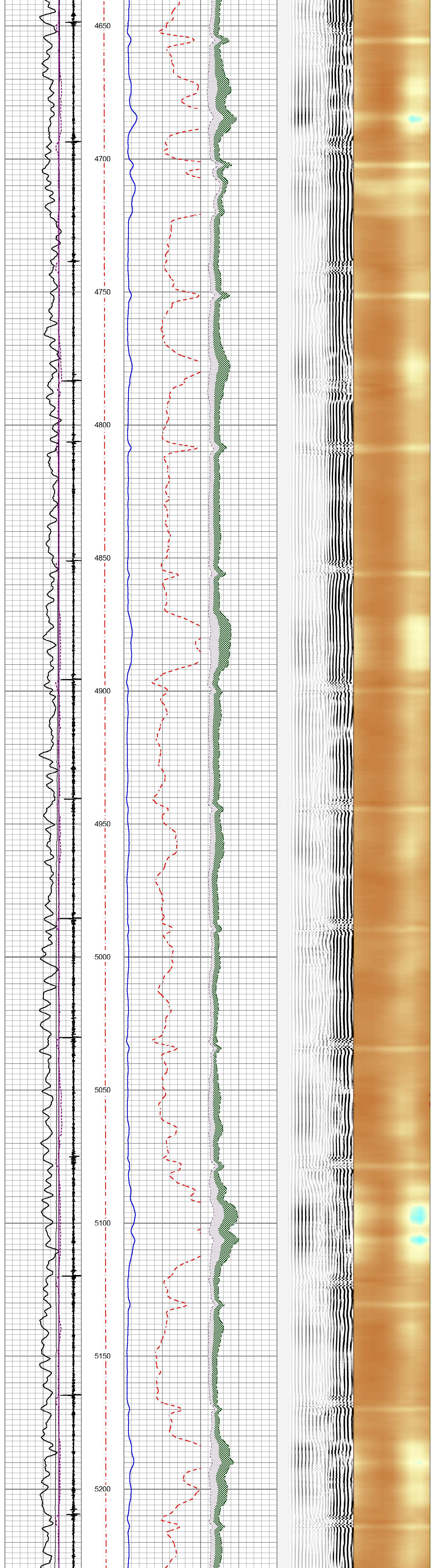


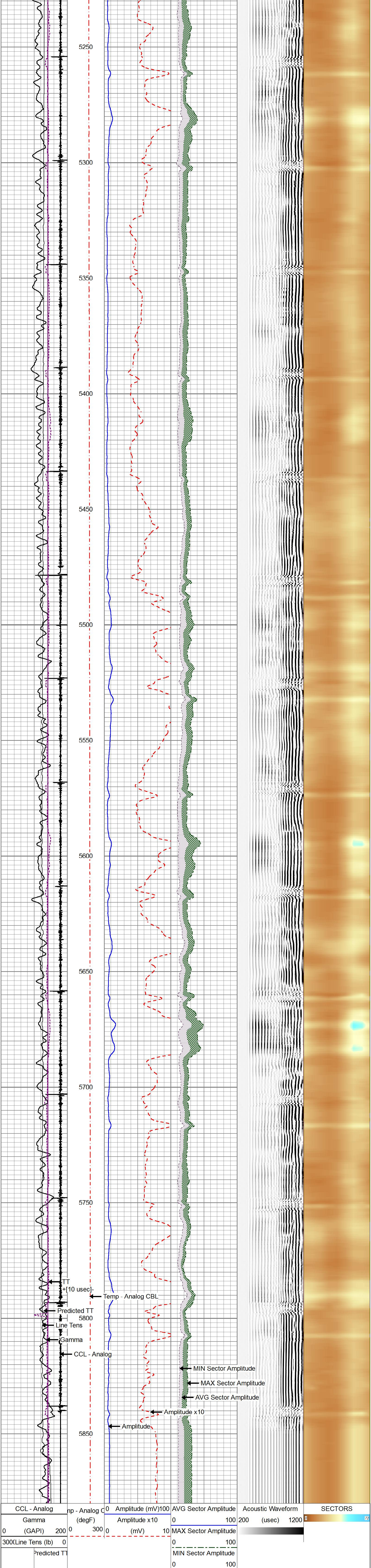












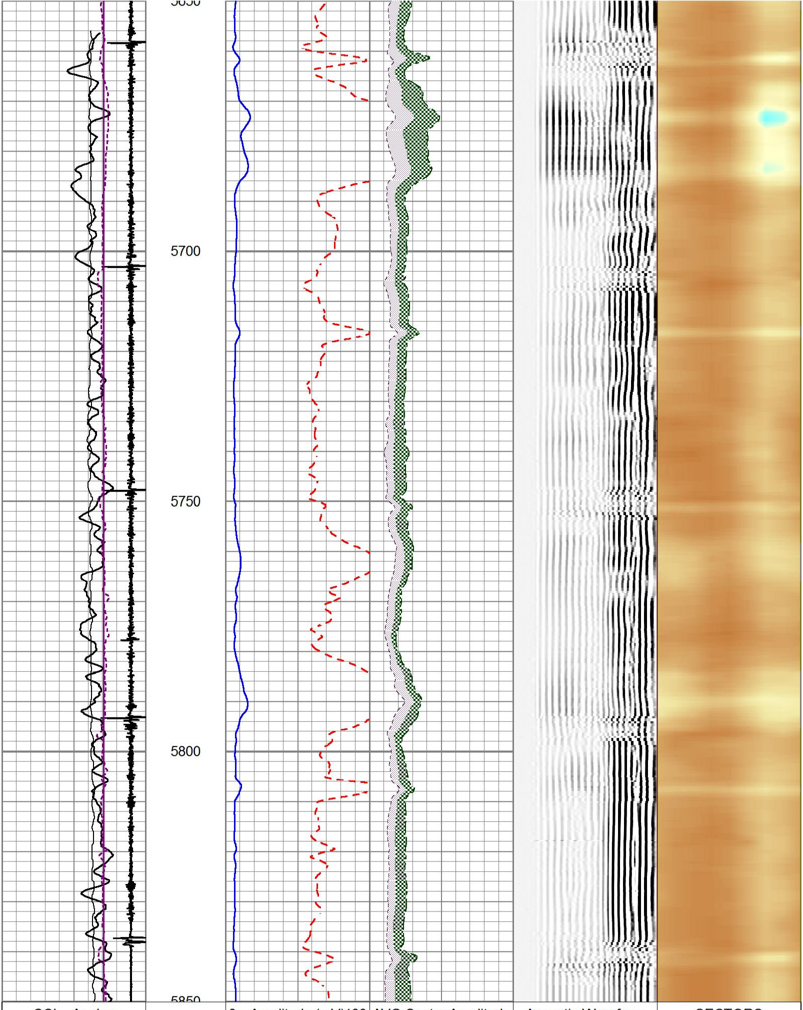
TT
+[10 usec]-

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	20180604_trott 7w-10-16n_cbl\20180604_trott 7w-10-16n_cbl.db
Dataset Pathname	pass2.1
Presentation Format	rcbl_8s
Dataset Creation	Mon Jun 04 17:50:26 2018
Charted by	Depth in Feet scaled 1:240

CCL - Analog Gamma 0 (GAPI) 200 300(Line Tens (lb) 0 Predicted TT TT +[10 usec]-	np - Analog C (degF) 0 300	0 Amplitude (mV)100 Amplitude x10 0 (mV) 10	AVG Sector Amplitude 0 100 MAX Sector Amplitude 0 100 MIN Sector Amplitude 0 100	Acoustic Waveform 200 (usec) 1200	SECTORS 0 72



CCL - Analog Gamma 0 (GAPI) 200 300(Line Tens (lb) 0 Predicted TT TT +[10 usec]-	np - Analog C (degF) 0 300	0 Amplitude (mV)100 Amplitude x10 0 (mV) 10	AVG Sector Amplitude 0 100 MAX Sector Amplitude 0 100 MIN Sector Amplitude 0 100	Acoustic Waveform 200 (usec) 1200	SECTORS 0 72

Calibration Report

Database File	d:\warrior\data\20180604_trott 7w-10-16n_cbl\20180604_trott 7w-10-16n_cbl.db
Dataset Pathname	pass3.3
Dataset Creation	Mon Jun 04 17:49:30 2018

Gamma Ray Calibration Report

Serial Number:	ISHV2-02	
Tool Model:	2 3/4" TekCo	
Performed:	Tue Dec 13 00:15:13 2016	
Calibrator Value:	194.0	GAPI
Background Reading:	59.8	cps
Calibrator Reading:	287.6	cps
Sensitivity:	0.8516	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	IT4B1-01	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	0.000	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	1.021	0.000	71.921	70.687	-0.223
CAL	0.000	0.290				
5'	0.001	1.089	0.000	71.921	66.082	-0.065
SUM						
S1	0.008	0.962	0.000	72.000	75.468	-0.635
S2	0.006	0.981	0.000	72.000	73.836	-0.453
S3	0.006	1.079	0.000	72.000	67.057	-0.384
S4	0.006	1.274	0.000	72.000	56.762	-0.341
S5	0.008	1.463	0.000	72.000	49.488	-0.403
S6	0.011	1.295	0.000	72.000	56.089	-0.643
S7	0.015	1.196	0.000	72.000	60.965	-0.910
S8	0.012	1.032	0.000	72.000	70.595	-0.847

Internal Reference Calibration, performed Fri Aug 25 16:20:58 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.290	0.000	0.290	1.000	0.000

Air Zero Calibration, performed Fri Aug 25 16:20:58 2017:

	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

Temperature Calibration Report

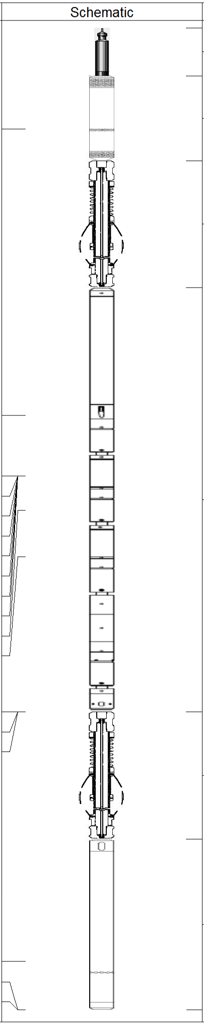
Serial Number:	IT4B1-01
Tool Model:	2 3/4" RIB Analog
Performed:	Fri Aug 26 11:07:15 2016

	Reference		Reading	
Low Reference:	0.00	degF	0.00	usec
High Reference:	1.00	degF	1.00	usec

Gain:	0.33
Offset:	0.00
Delta Spacing	1

Sensor	Offset (ft)
CCL	18.96
TEMP	12.78
WVFS8	11.49
WVFS7	11.49
WVFS6	11.49
WVFS5	11.49
WVFS4	11.49
WVFS3	11.49
WVFS2	11.49
WVFS1	11.49
WVF3FT	10.74
WVF5FT	9.74
WVFSYNC	6.41
WVFTEMP	6.41
WVFCAL	6.41
GR	1.04
LOCTIM	0.00
UTCTIM	0.00

Schematic



Description	Length (ft)	O.D. (in)	Weight (lb
CableHead-TitanConeType2	1.03	1.44	3.60
CCL_Log-2 3/4" TekCo (IS2T1-09)	1.83	2.75	33.00
TekCo-2 3/4"	2.73	2.75	25.00
RBTA-2 3/4" RIB Analog (IT4B1-01)	9.13	2.75	102.00
TekCo-2 3/4"	2.73	2.75	25.00
GR_Log-2 3/4" TekCo (ISHV2-02)	3.68	2.75	47.00

Dataset:	20180604_trott 7w-10-16n_cbl.db: field/well/run1/pass3.3
Total length:	21.13 ft
Total weight:	235.60 lb
O.D.:	2.75 in

gyrodata

Company	Extraction Oil and Gas Inc.
Well	Trott 7W-10-16N
Field	Wattenberg
County	Weld
State	Colorado
Country	U.S.A.