ROCKY MOUNTAIN WIRELINE SERVICE

TEMPERATURE CCL LOG

Company	**TEP ROCKY MOUNTAIN LLC**
Well	**RU 14-7**
Field	**RULISON**
County	**GARFIELD**
State	**COLORADO**
Location:	API # : 05-045-23259 QtrQtr; NWSW LAT. 39.452138 LON. -107.825803
SEC	7
TWP	7S
RGE	93W
Other Services	

			Elevation	
Permanent Datum	G.L.	Elevation	7357'	K.B. 7381'
Log Measured From	K.B.	Ft Above PD	24.0'	D.F.
Drilling Measured From	K.B.			G.L. 7357'

Date	12-06-2016
Run Number	ONE
Depth Driller	9686'
Present Depth Driller	9647'
Depth Logger	9659'
Bottom Logged Interval	9659'
Top Log Interval	SURFACE
Fluid Level	FULL
Type Fluid	WATER
Max. Recorded Temp.	180.0 °F
Estimated Cement Top	4280'
Equipment Number	216
Location	GRAND JCT.
Recorded By	MCBROOM/CHEPKO
Witnessed By	MR. ABBEY

Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				4.50"	11.6#	SURFACE	9676'

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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.

WARRIOR 7.0 SOFTWARE - Comments

NOTE; THERE WAS NO LOG FOR DEPTH CONTROL.
SCALE MAIN PASS 5"= 100'.
NOTE; SHORT JOINT AT 5622' TO 5644'

Calibration Report

Database File: 12062016_tep_ru 14-7.db
Dataset Pathname: mainpass/pass2.1
Dataset Creation: Tue Dec 06 09:53:46 2016 by Calc SCH 120430

Temperature Calibration Report

Serial Number: 16-53
Tool Model: APPLIED
Performed: Tue Jan 31 10:43:33 2012

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

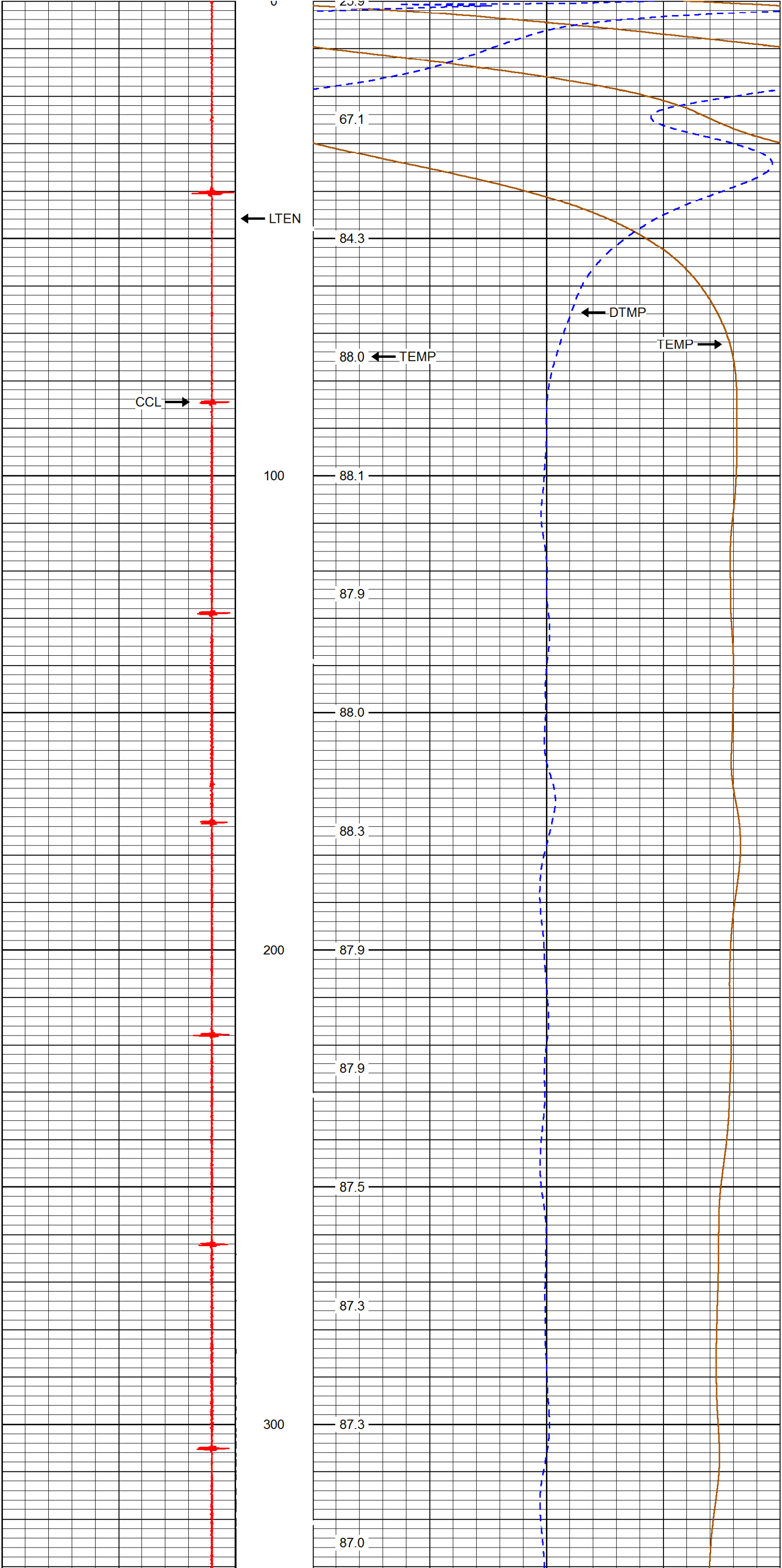
Gain: 0.10
Offset: 0.00
Delta Spacing: 2

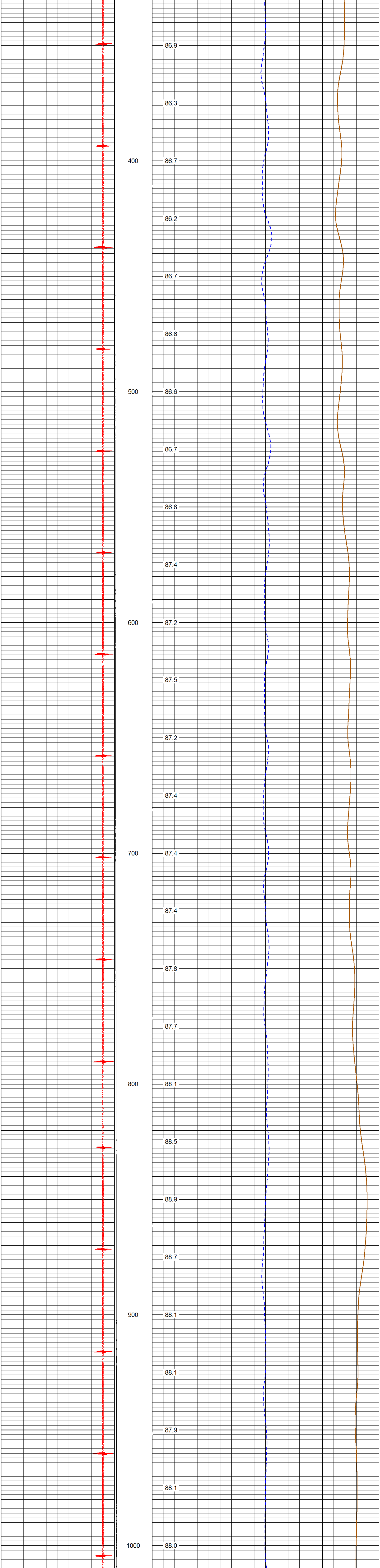
ROCKY MOUNTAIN WIRELINE SERVICE

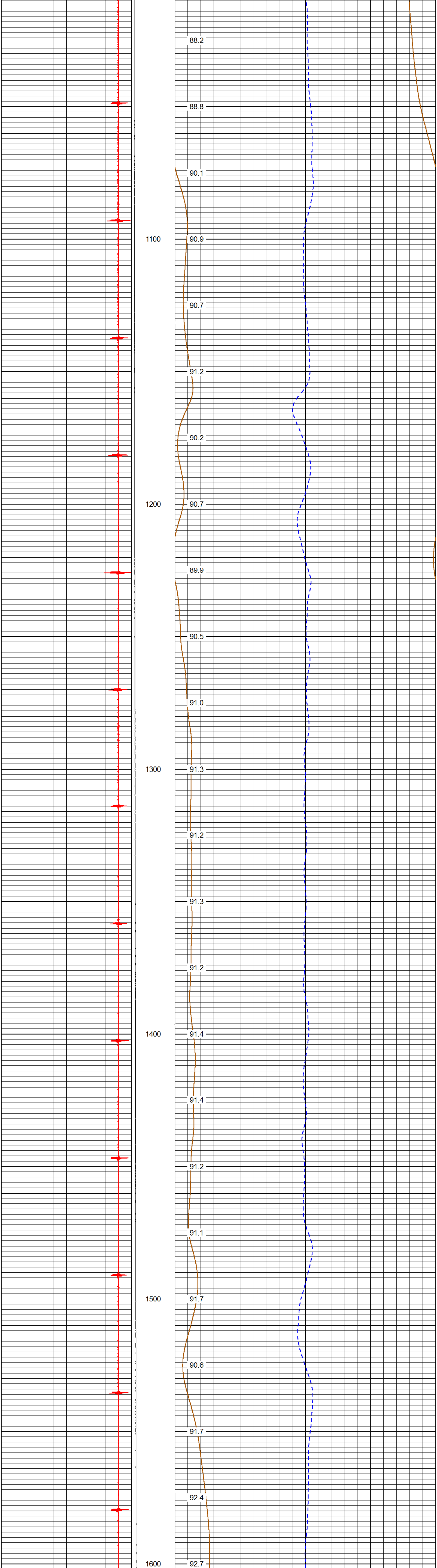
MAIN PASS

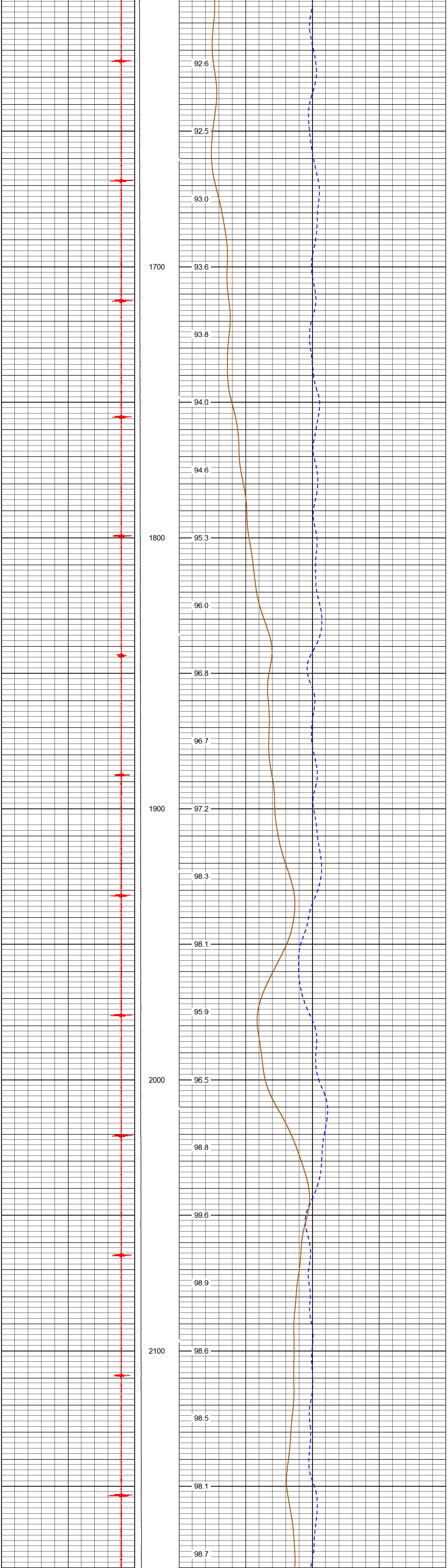
Database File: 12062016_tep_ru 14-7.db
Dataset Pathname: mainpass/pass2
Presentation Format: rmws_temp
Dataset Creation: Tue Dec 06 07:57:23 2016 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

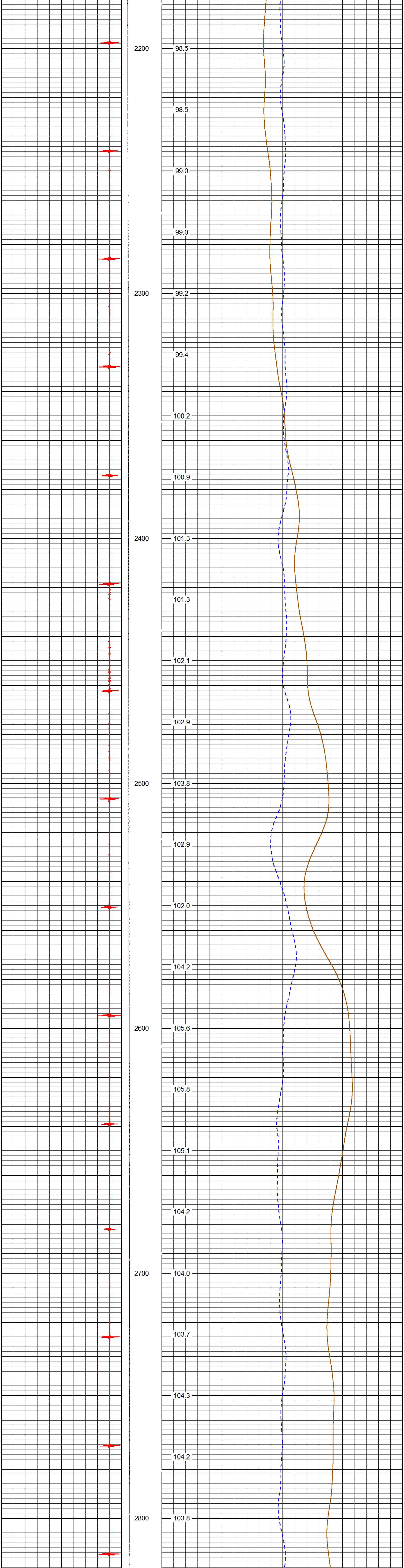
-27 CCL 3	LTEN	50 TEMP (degF) 70
	0 (lb) 1200	-1 DTMP (degF) 1
		TEMP (degF)

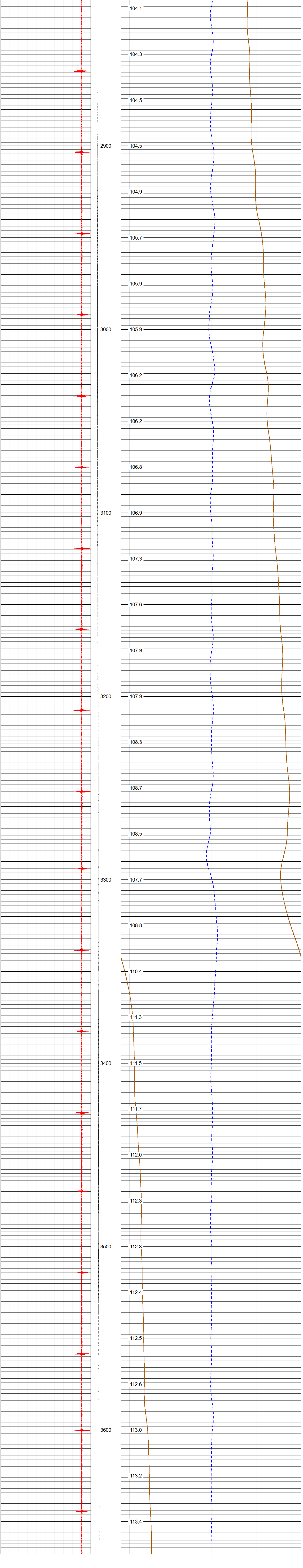


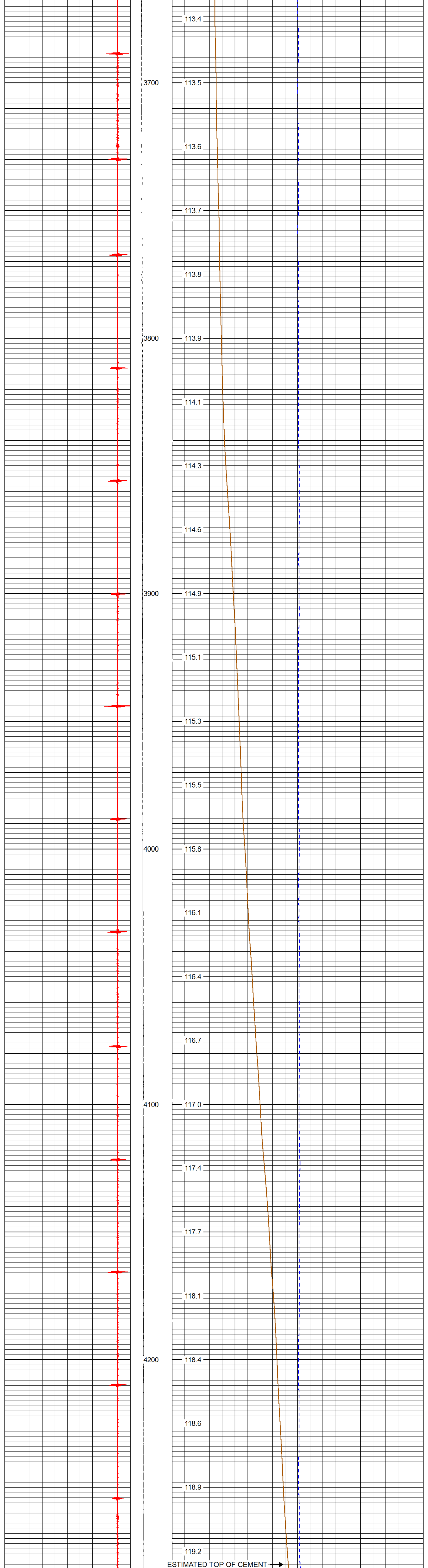




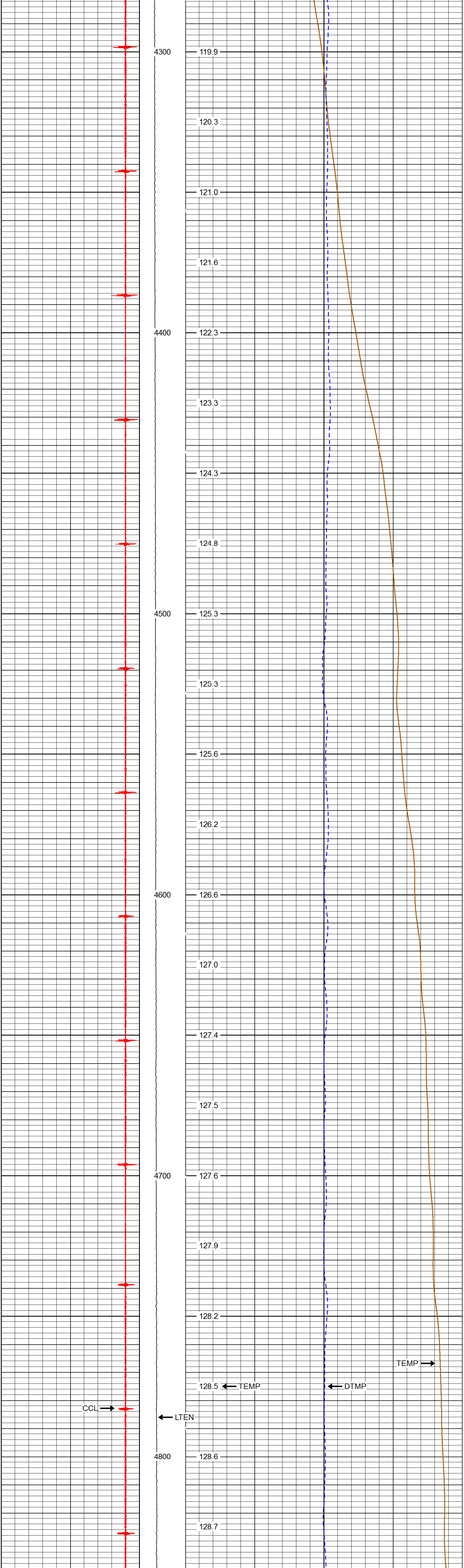


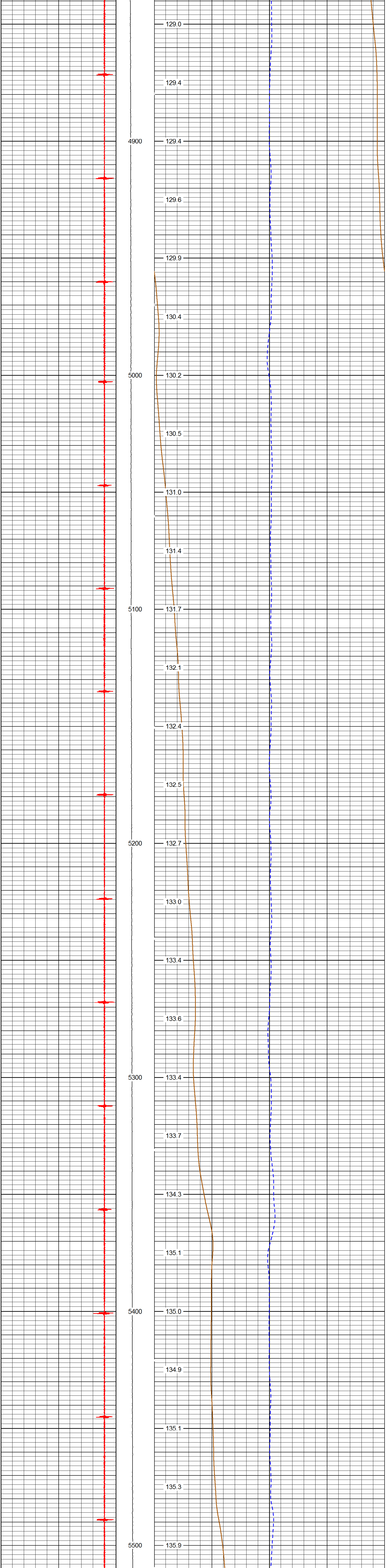


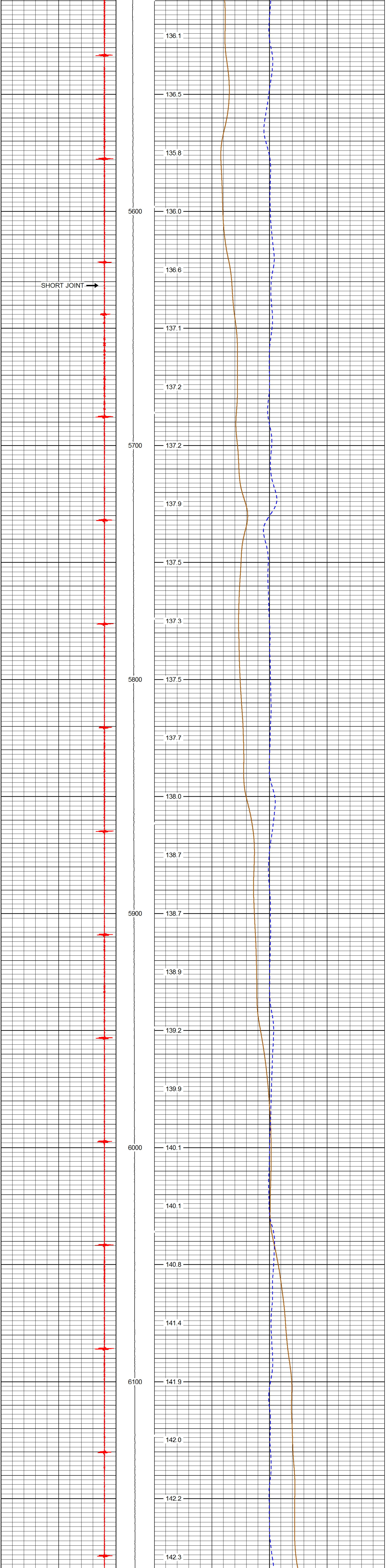


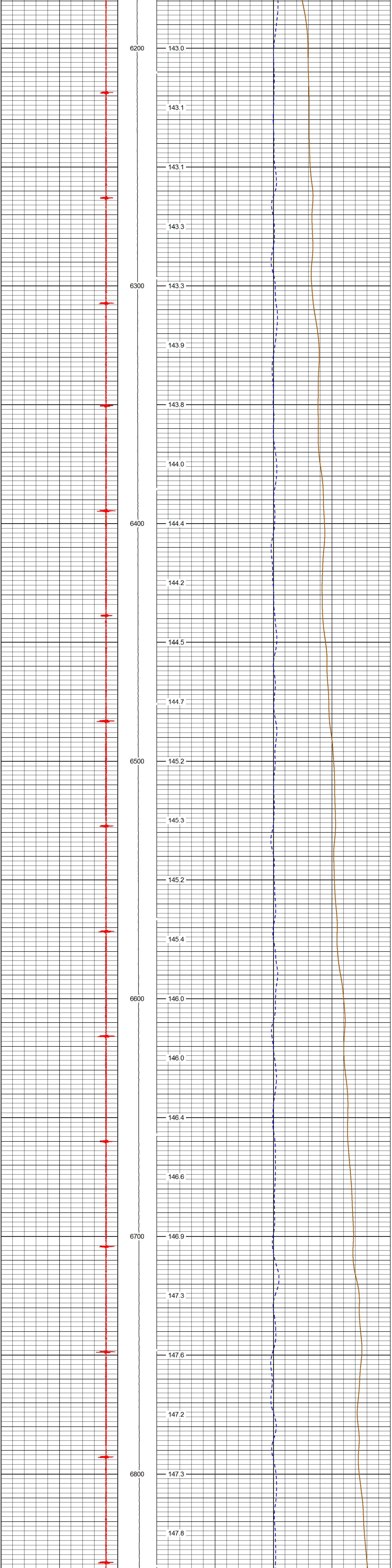


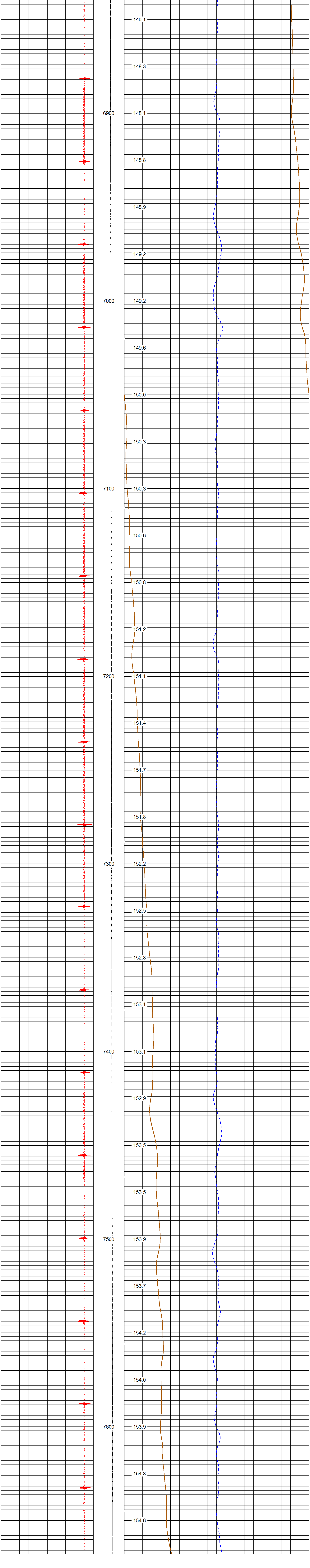
ESTIMATED TOP OF CEMENT→

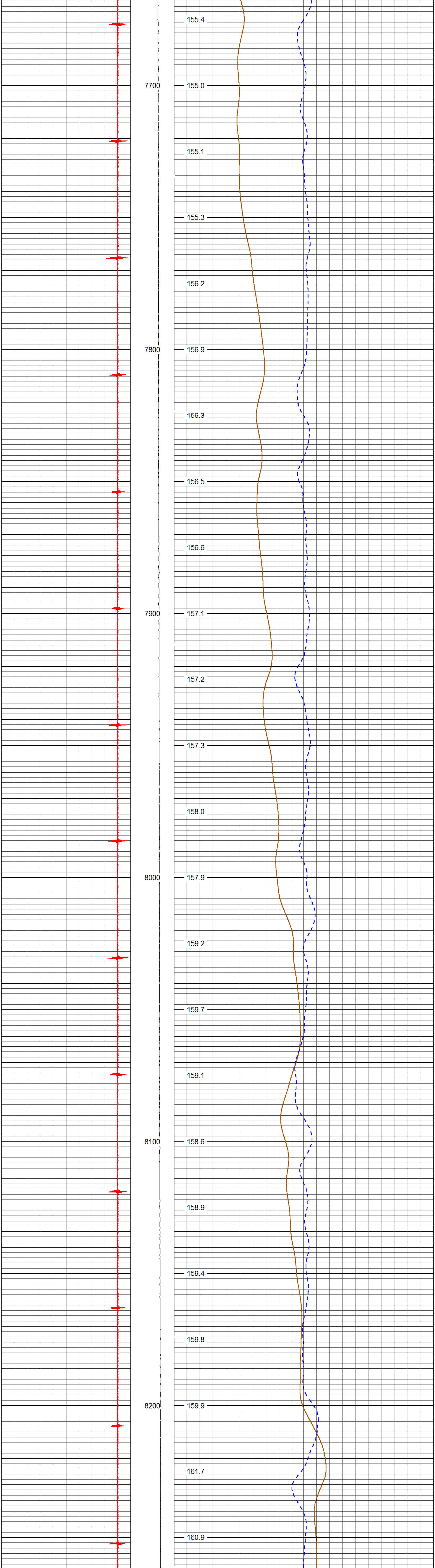


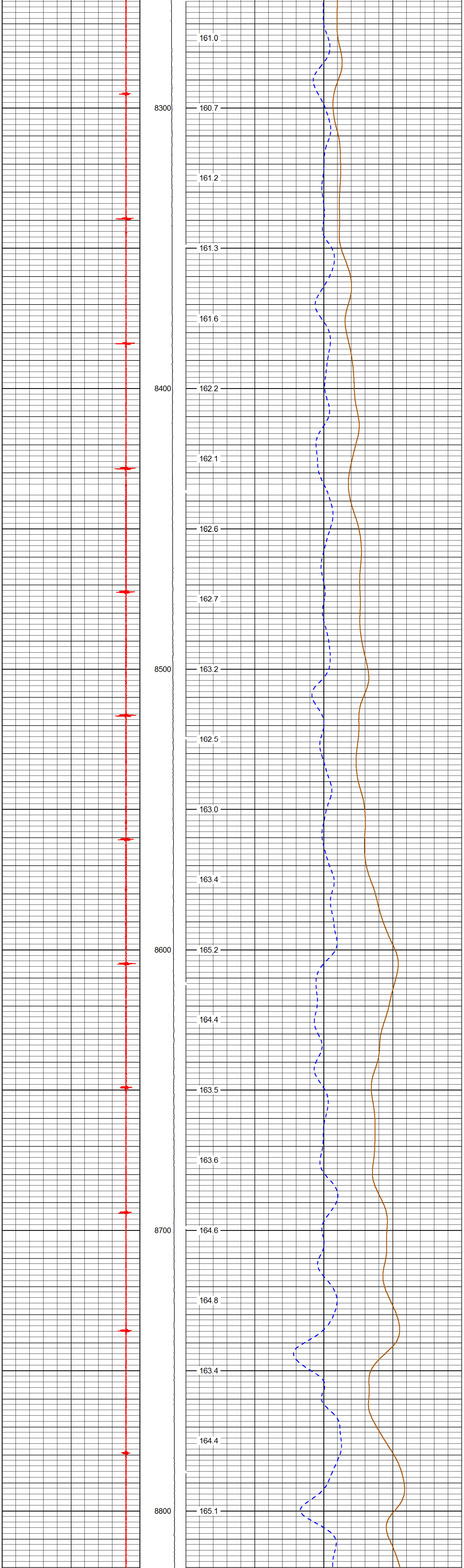


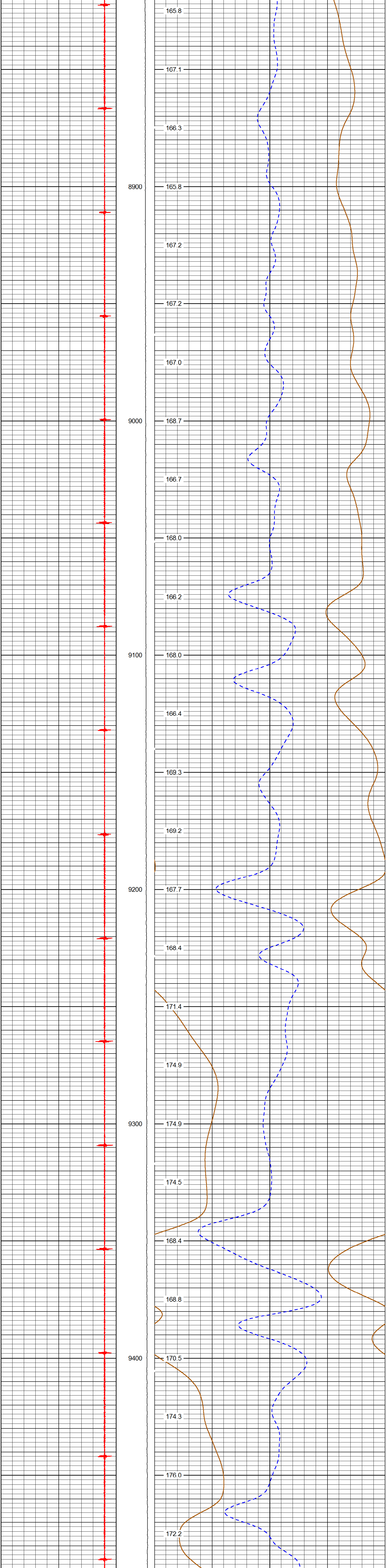


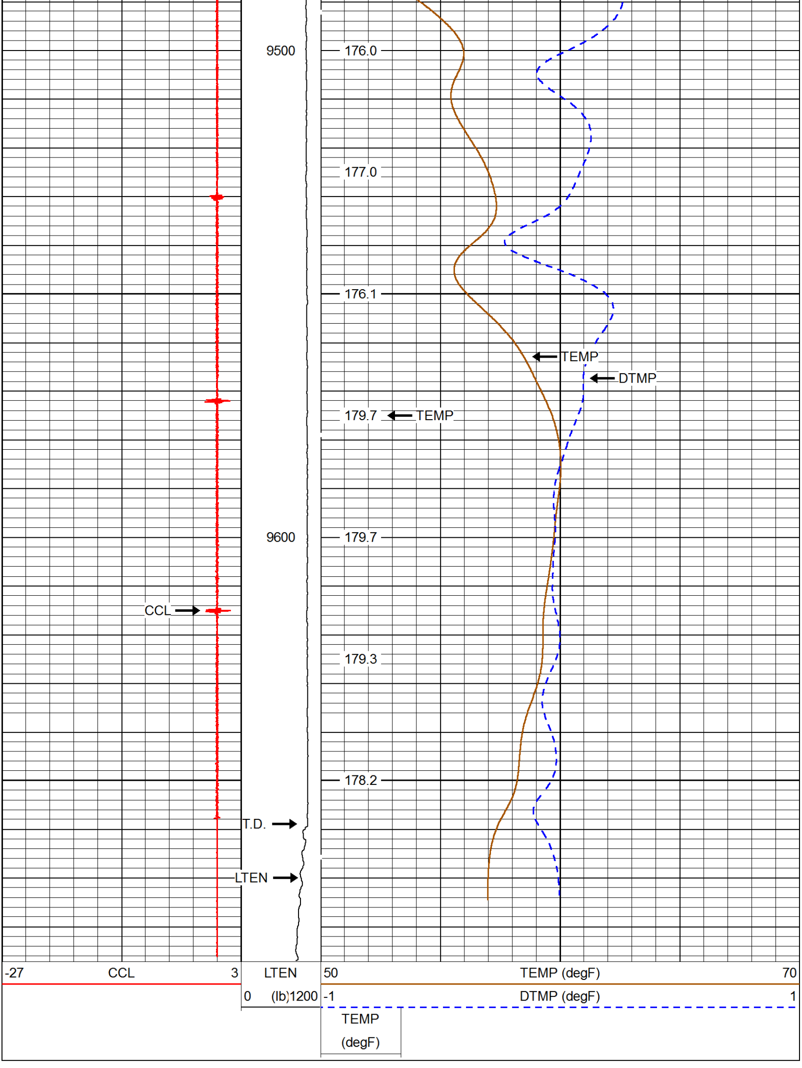








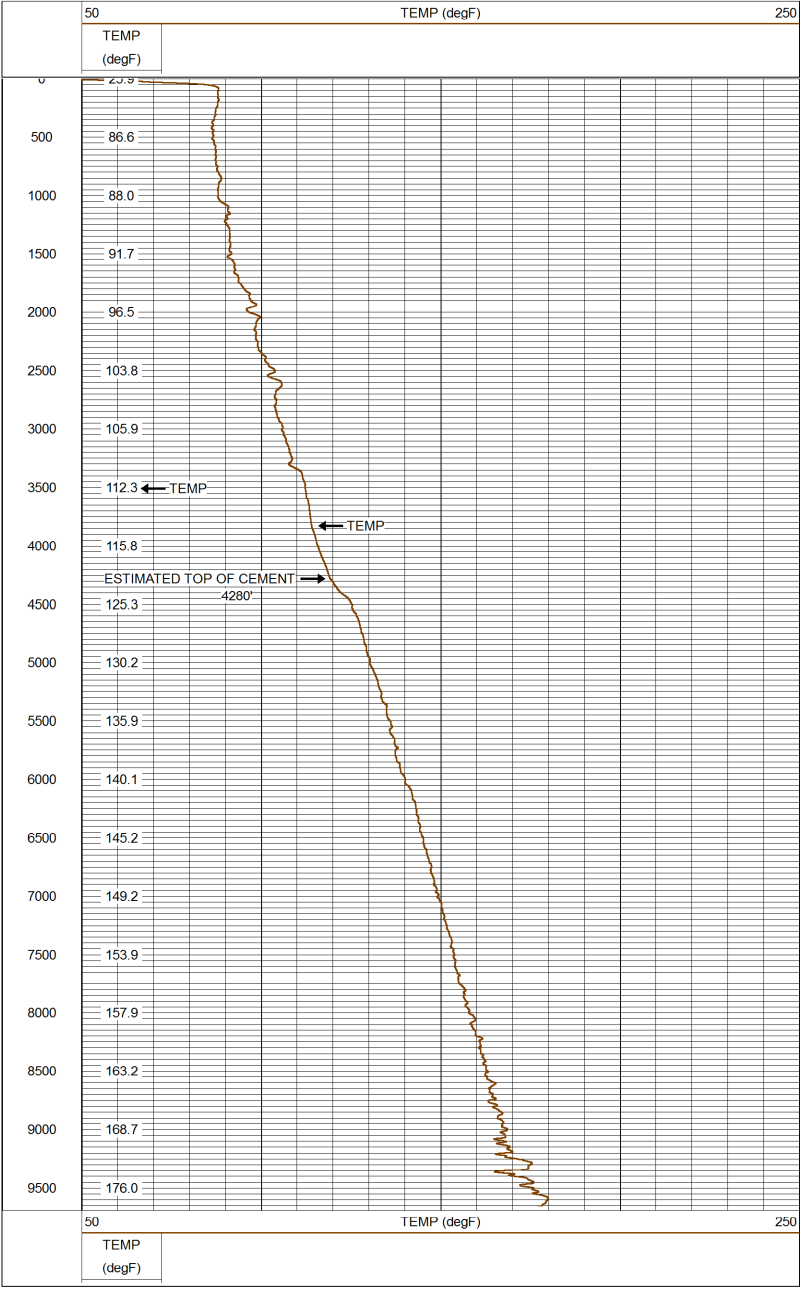


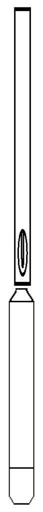


ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS (QUICK LOOK)

Database File:	12062016_tep_ru 14-7.db
Dataset Pathname:	mainpass/pass2.1
Presentation Format:	rmtmp_ql
Dataset Creation:	Tue Dec 06 09:53:46 2016 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:10000



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
TEMP CCL	2.44 0.79		TEMP-APPLIED (16-53) CCL-3.125_APPLIED (40-01NB) positive or negative voltage logging ccl	2.67 2.03	1.38 3.13	11.00 45.00

Dataset: 12062016_tep_ru 14-7.db: field/well/mainpass/pass2.1
Total Length: 4.69 ft
Total Weight: 56.00 lb
O.D. 3.13 in

ROCKY MOUNTAIN WIRELINE SERVICE

Company	TEP ROCKY MOUNTAIN LLC
Well	RU 14-7
Field	RULISON
County	GARFIELD
State	COLORADO