ROCKY MOUNTAIN WIRELINE SERVICE

TEMPERATURE CCL LOG

Company	TEP ROCKY MOUNTAIN LLC
Well	RU 411-7
Field	RULISON
County	GARFIELD
State	COLORADO

Location: API # : 05-045-23234-00
QtrQtr: SENW
LAT. 39.4570050
LOG. -107.8197063
SEC 7 TWP 7S RGE 93W

Other Services

Permanent Datum	G.L.	Elevation	7339'
Log Measured From	K.B.	Ft Above PD	24.0'
Drilling Measured From	K.B.		

Elevation
K.B. 7363'
D.F.
G.L. 7339'

Date	09-21-2016
Run Number	ONE
Depth Driller	9782'
Present Depth Driller	9743'
Depth Logger	9740'
Bottom Logged Interval	9740'
Top Log Interval	SURFACE
Fluid Level	FULL
Type Fluid	WATER
Max. Recorded Temp.	174.4 ° F
Estimated Cement Top	4360'
Equipment Number	216
Location	GRAND JCT.
Recorded By	MCBROOM
Witnessed By	MR. OAKS

Borehole Record				Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				4.50"	11.6#	SURFACE	9732'

<<< 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.

WARRIOR 7.0 SOFTWARE - Comments

NOTE; THERE WAS NO LOG FOR DEPTH CONTROL.
SCALE MAIN PASS 5"= 100'.
NOTE; SHORT JOINT AT 5810' TO 5832'.

Calibration Report

Database File: 09212016_tep_ru 411-7.db
Dataset Pathname: mainpass/pass1.1
Dataset Creation: Wed Sep 21 15:53:29 2016 by Calc SCH 120430

Temperature Calibration Report

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

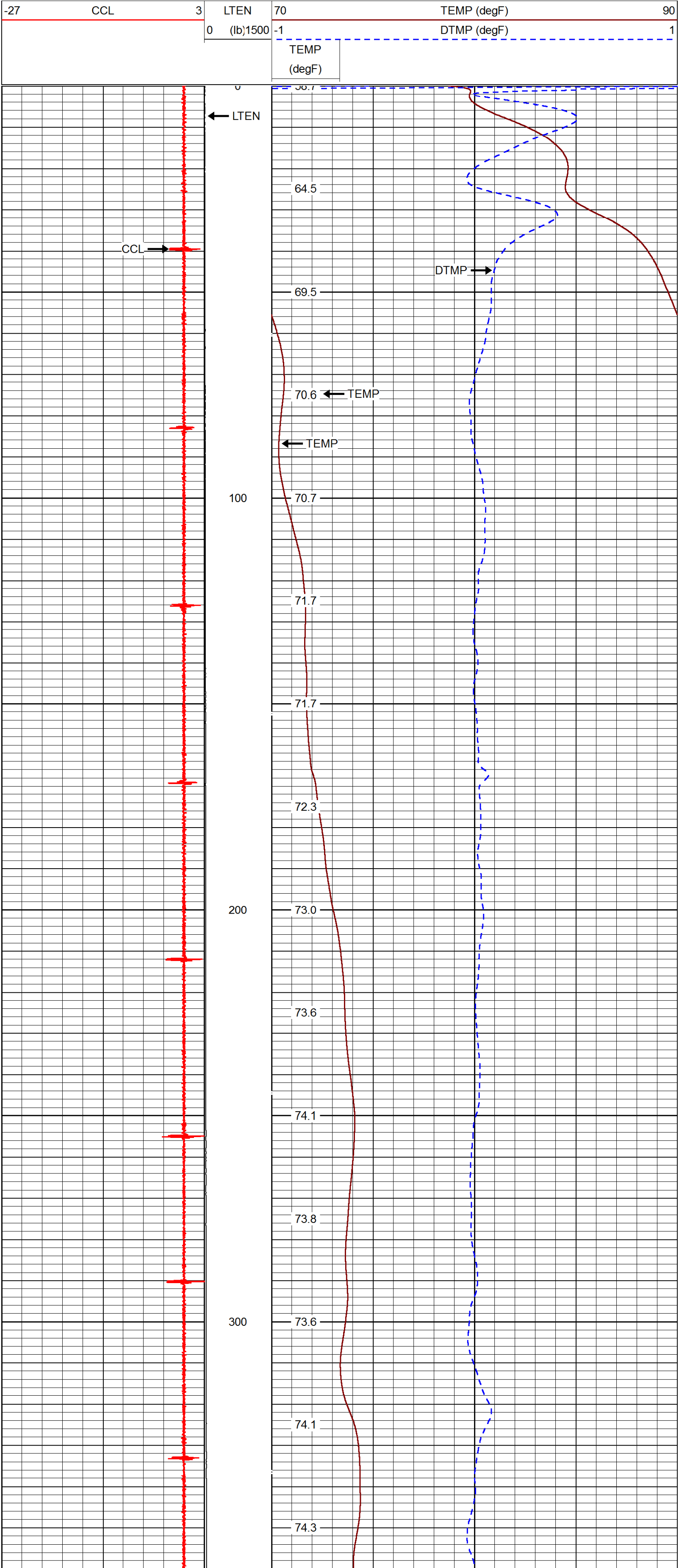
	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	1.00	cps

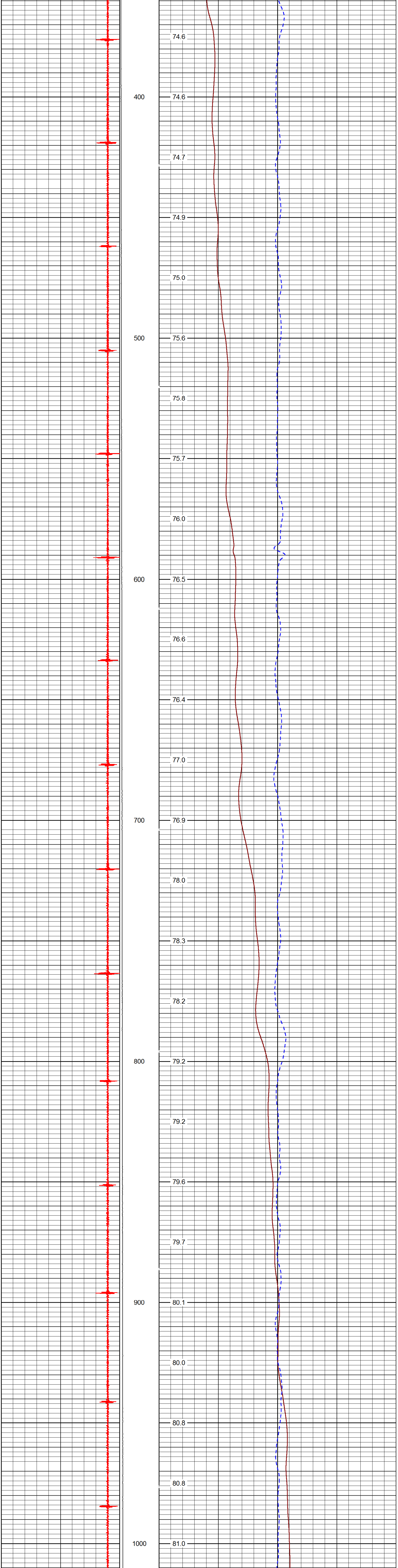
Gain: 0.10
Offset: 0.00
Delta Spacing 2

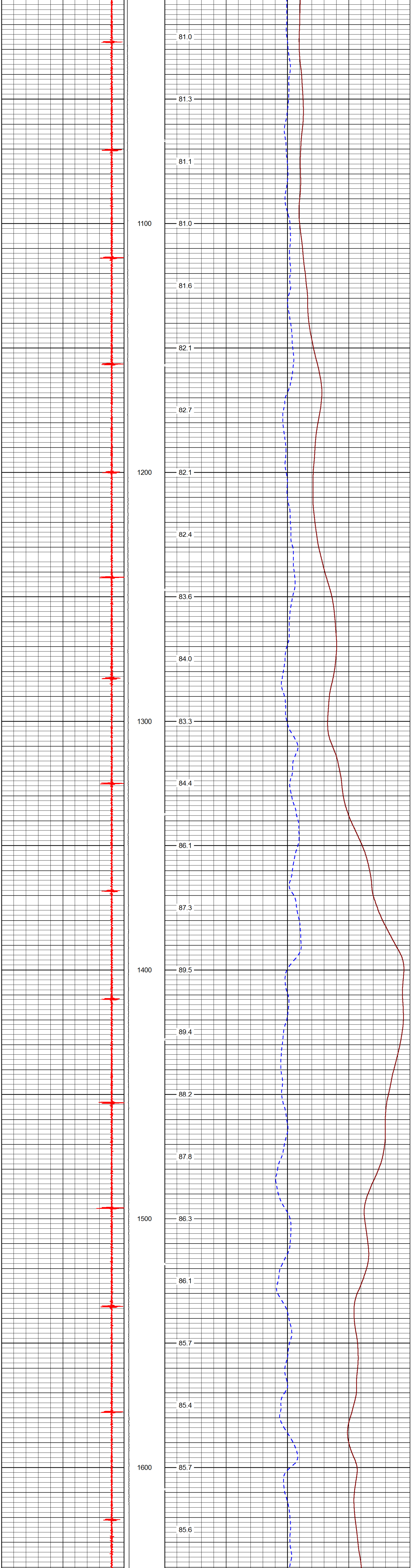
ROCKY MOUNTAIN WIRELINE SERVICE

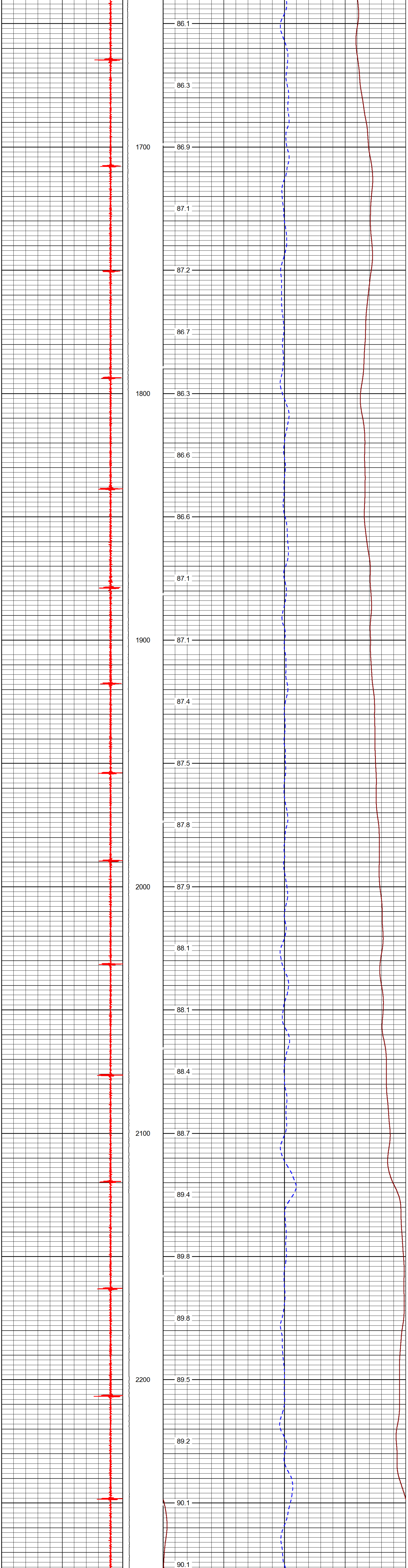
MAIN PASS

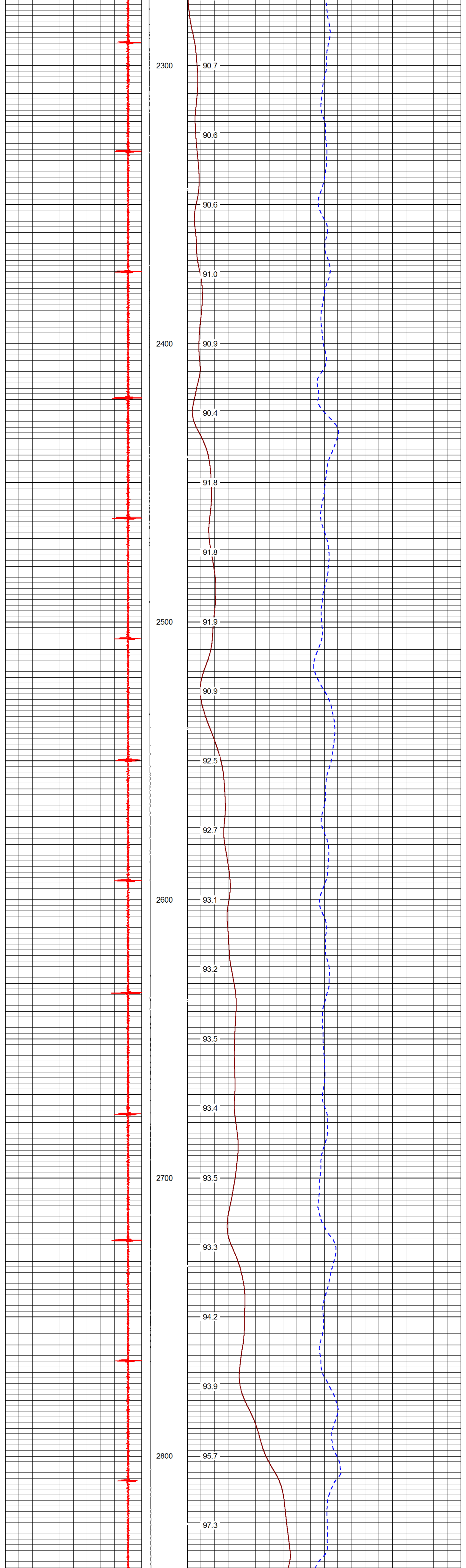
Database File: 09212016_tep_ru 411-7.db
Dataset Pathname: mainpass/pass1
Presentation Format: rmws_temp
Dataset Creation: Wed Sep 21 14:01:55 2016 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

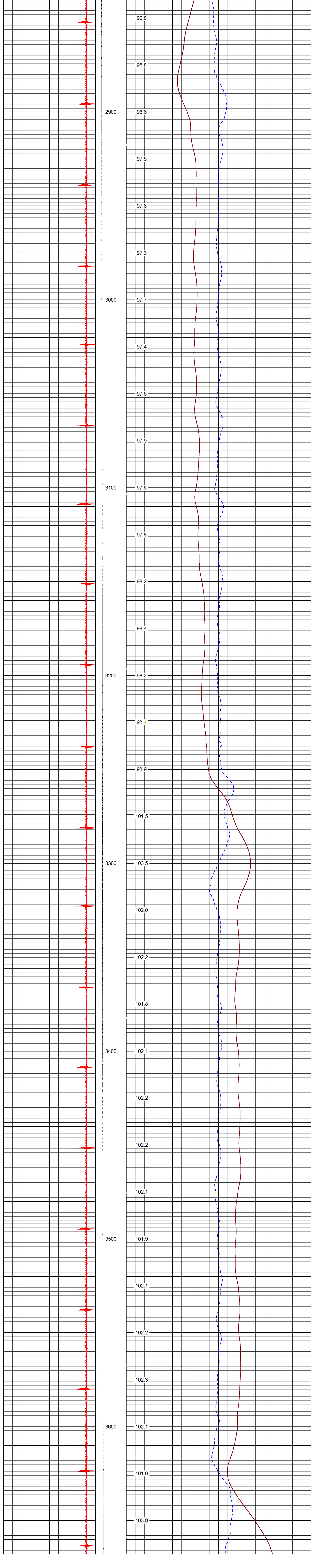


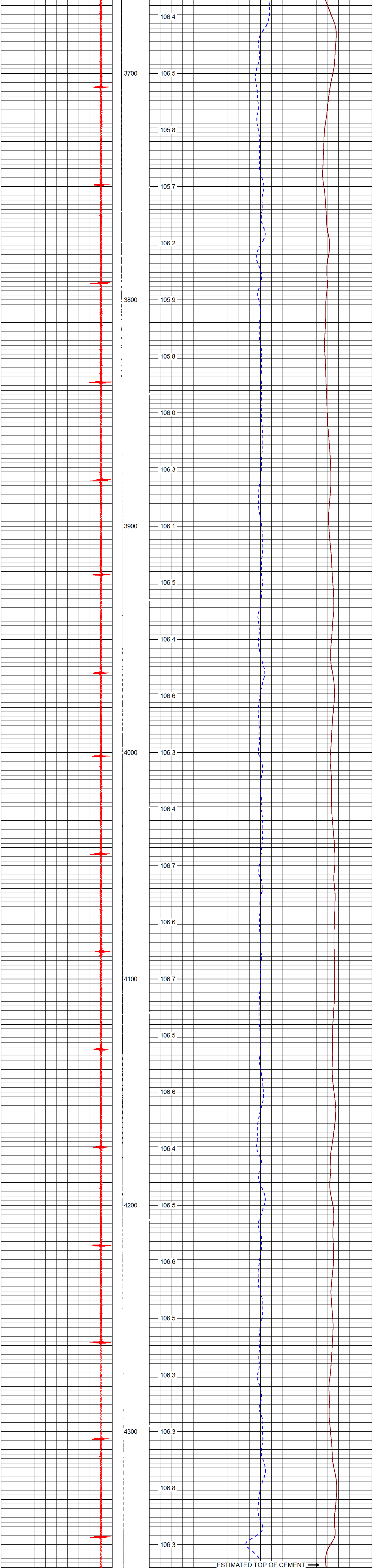


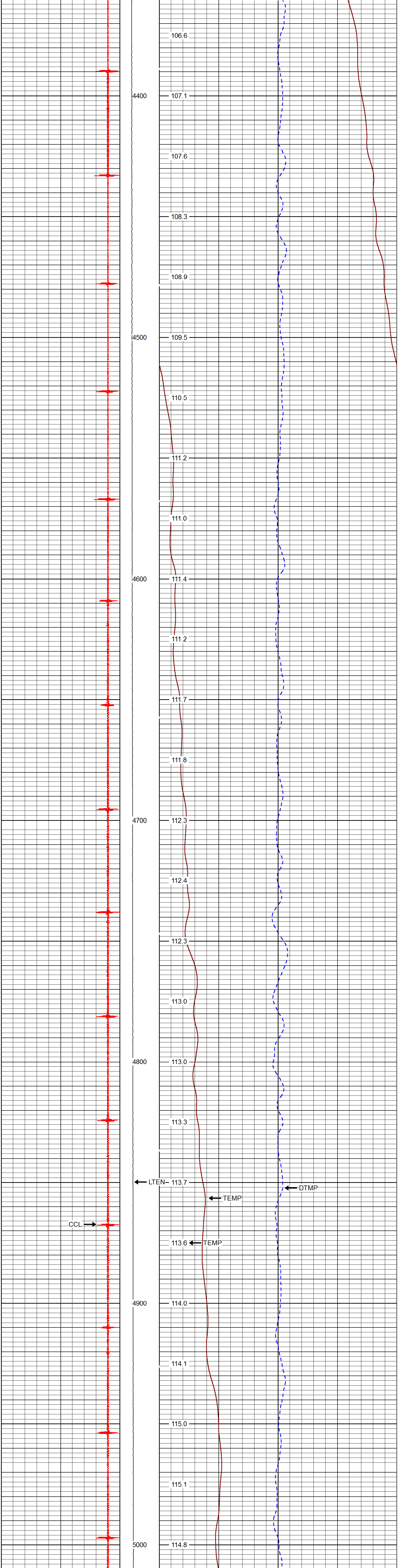


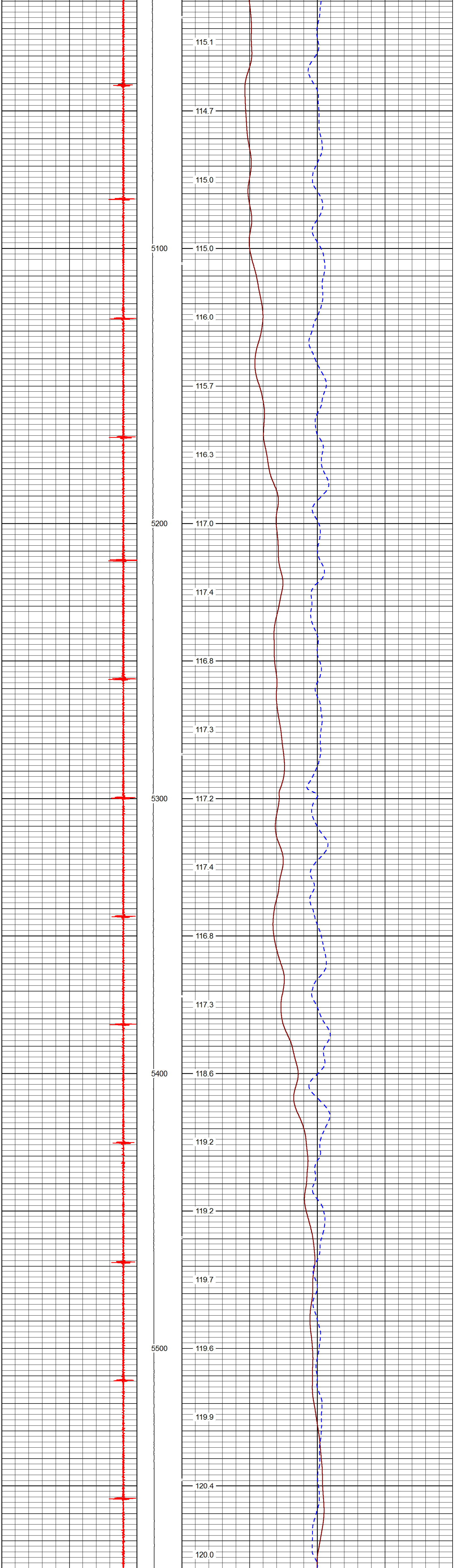


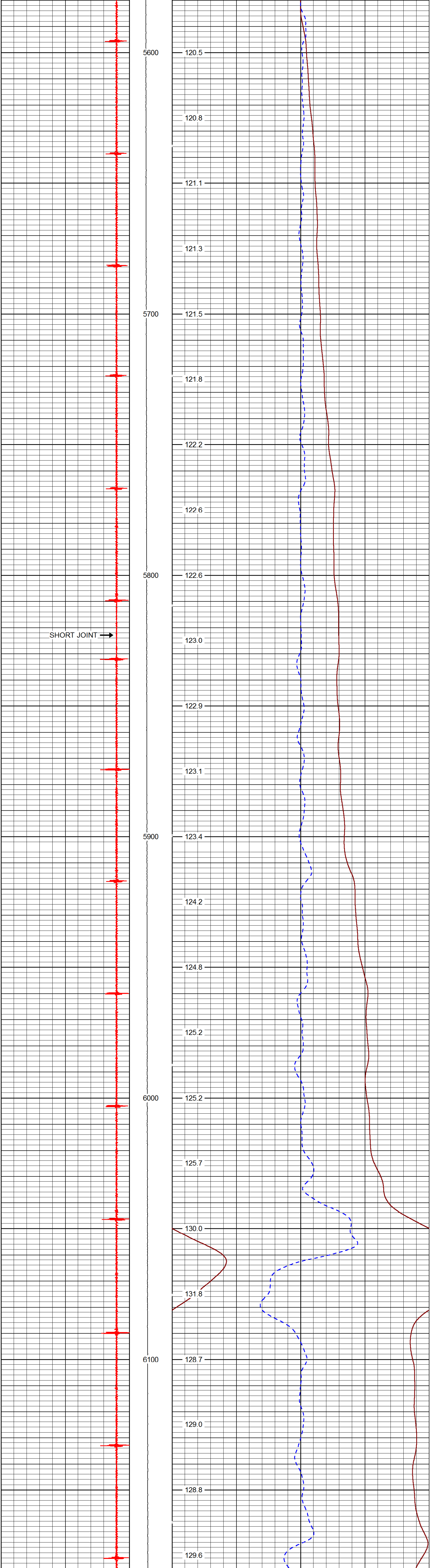


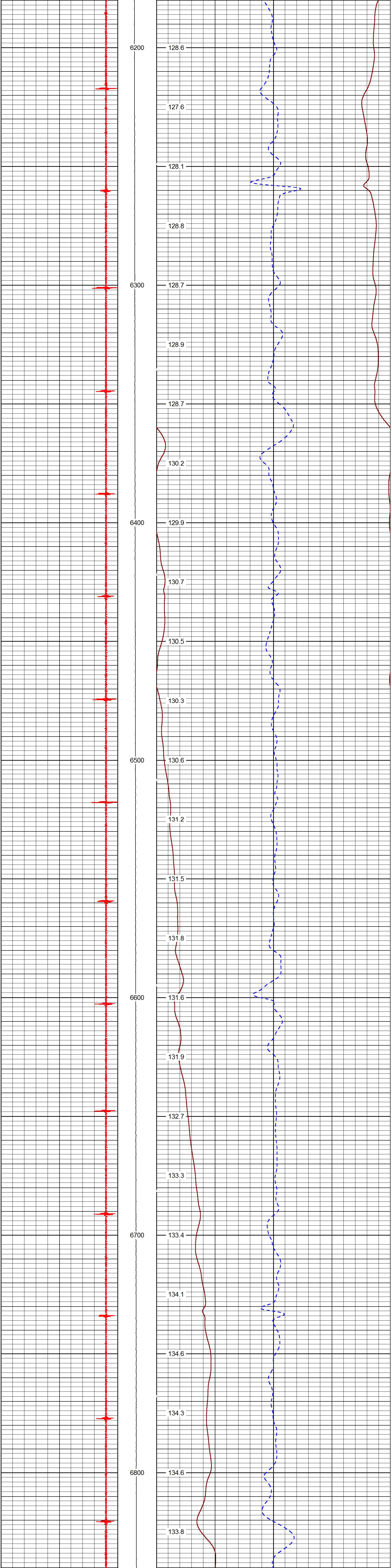



106.4
3700
106.5
105.8
105.7
106.2
3800
105.9
105.8
106.0
106.3
3900
106.1
106.5
106.4
106.6
4000
106.3
106.4
106.7
106.6
4100
106.7
106.5
106.6
106.4
4200
106.5
106.6
106.5
106.3
4300
106.3
106.8
106.3
ESTIMATED TOP OF CEMENT

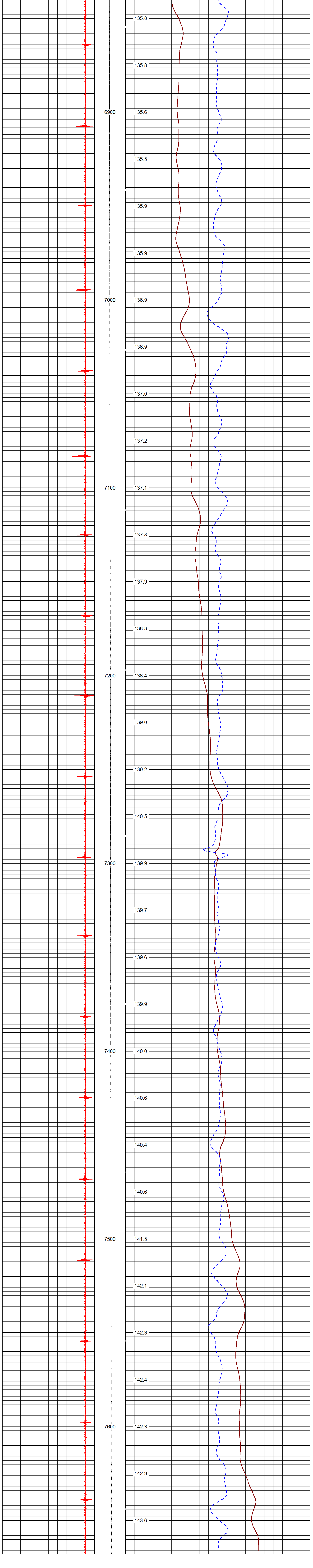

106.6
4400
107.1
107.6
108.3
108.9
4500
109.5
110.5
111.2
111.0
4600
111.4
111.2
111.7
111.8
4700
112.3
112.4
112.3
113.0
4800
113.0
113.3
LTEN
113.7
DTMP
TEMP
CCL
113.6
TEMP
4900
114.0
114.1
115.0
115.1
5000
114.8

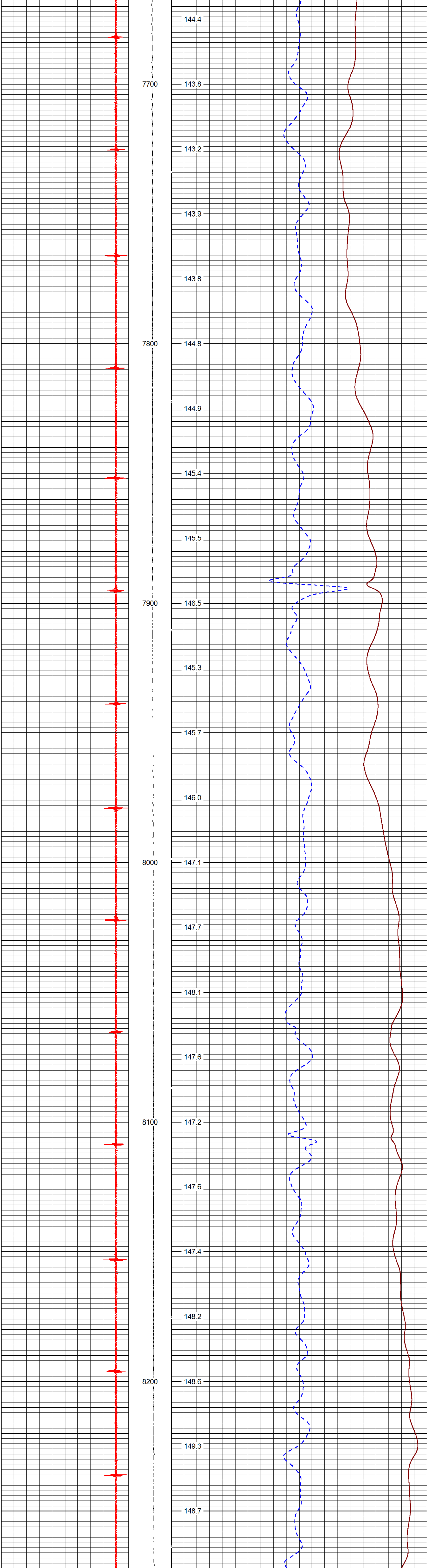

115.1
114.7
115.0
5100
115.0
116.0
115.7
116.3
5200
117.0
117.4
116.8
117.3
5300
117.2
117.4
116.8
117.3
5400
118.6
119.2
119.2
119.7
5500
119.6
119.9
120.4
120.0

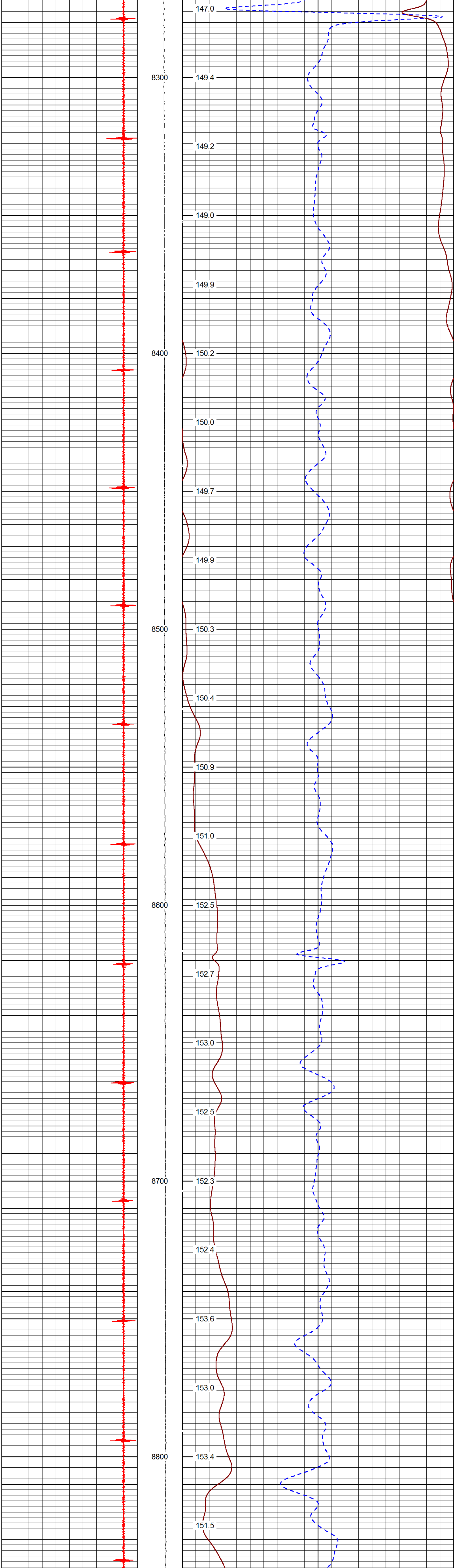

5600
120.5
120.8
121.1
121.3
5700
121.5
121.8
122.2
122.6
5800
122.6
SHORT JOINT
123.0
122.9
123.1
5900
123.4
124.2
124.8
125.2
6000
125.2
125.7
130.0
131.8
6100
128.7
129.0
128.8
129.6

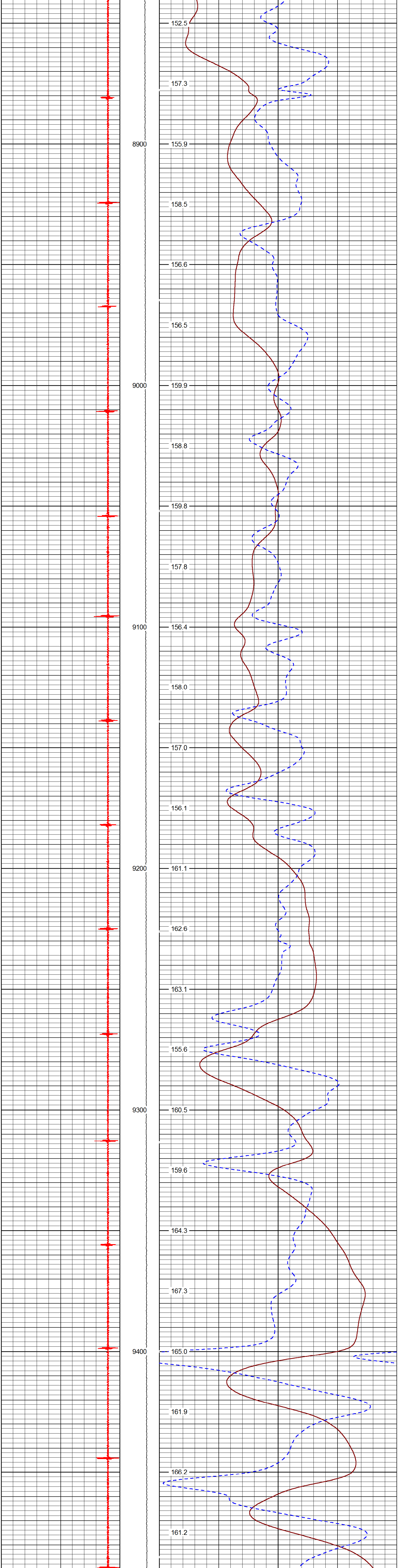


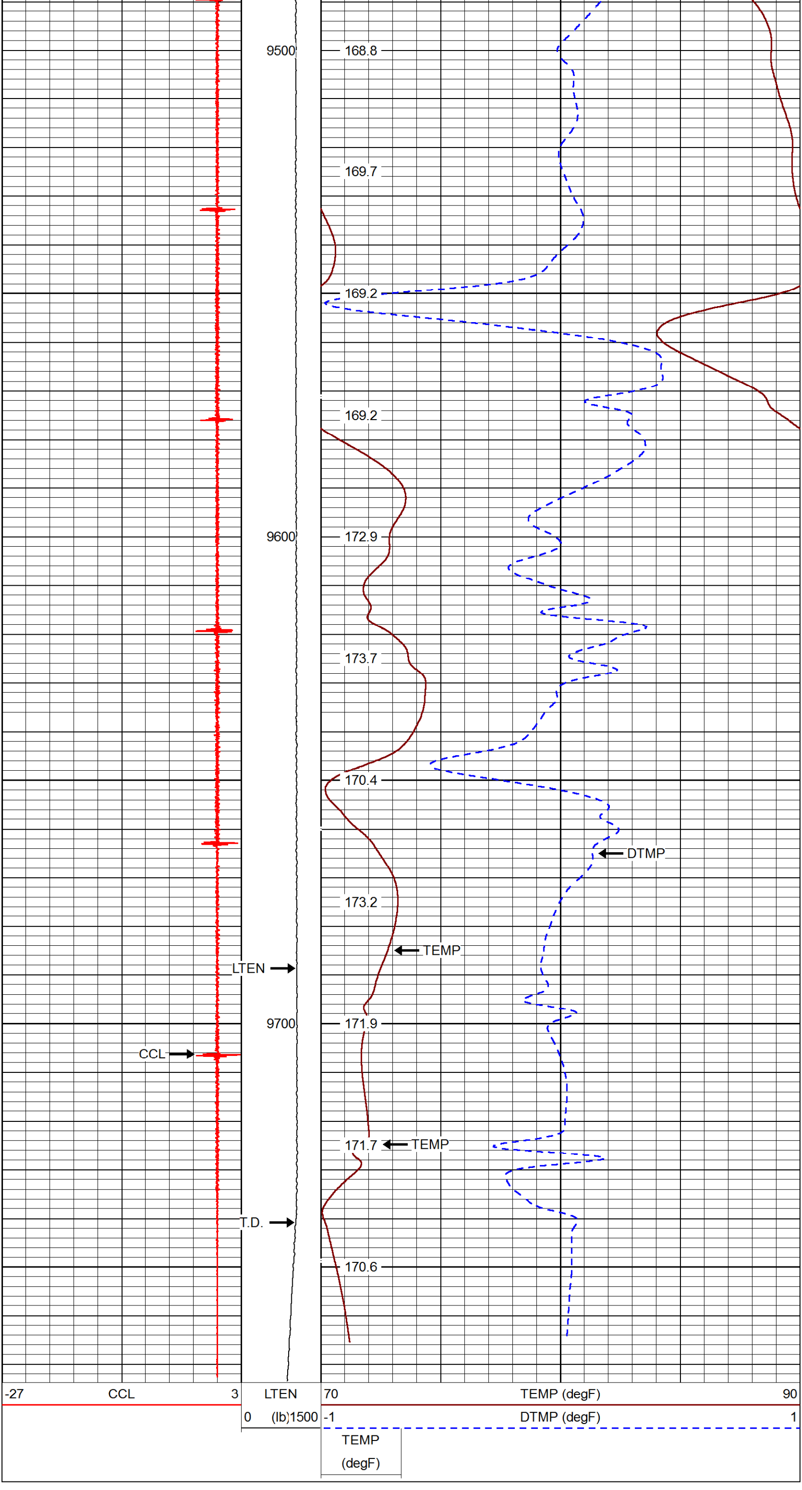
6200
128.6
127.6
128.1
128.8
6300
128.7
128.9
128.7
130.2
6400
129.9
130.7
130.5
130.3
6500
130.6
131.2
131.5
131.8
6600
131.6
131.9
132.7
133.3
6700
133.4
134.1
134.6
134.3
6800
134.6
133.8


135.8
135.8
6900
135.6
135.5
135.9
135.9
7000
136.9
136.9
137.0
137.2
7100
137.1
137.8
137.9
138.3
7200
138.4
139.0
139.2
140.5
7300
139.9
139.7
139.6
139.9
7400
140.0
140.6
140.4
140.6
7500
141.5
142.1
142.3
142.4
7600
142.3
142.9
143.6



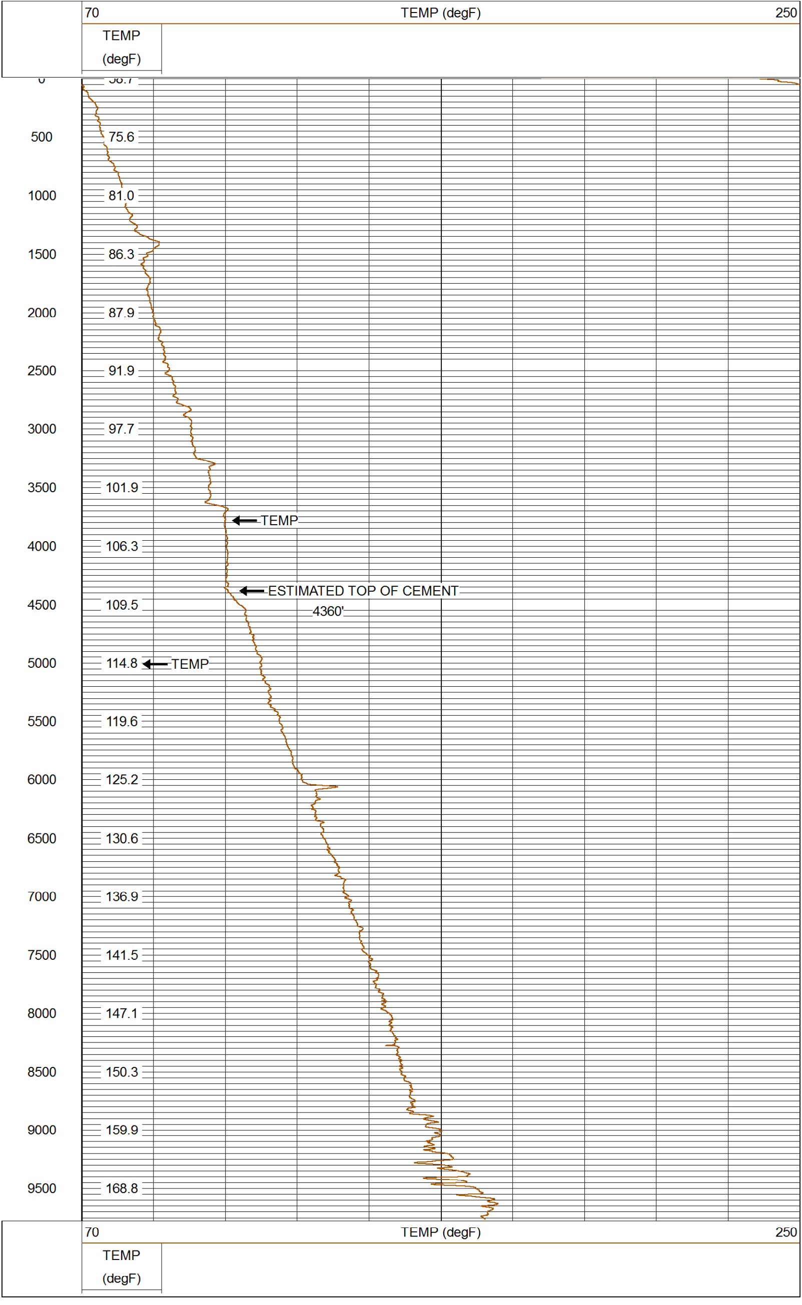


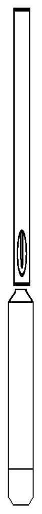




MAIN PASS (QUICK LOOK)

Database File: 09212016_tep_ru 411-7.db
Dataset Pathname: mainpass/pass1.1
Presentation Format: rmtemp_q
Dataset Creation: Wed Sep 21 15:53:29 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-APPLIED (16-53)	2.67	1.38	11.00
TEMP	2.44					
			CCL-3.125_APPLIED (40-01NB) positive or negative voltage logging ccl	2.03	3.13	45.00
CCL	0.79					

Dataset: 09212016_tep_ru 411-7.db: field/well/mainpass/pass1.1
Total Length: 4.69 ft
Total Weight: 56.00 lb
O.D. 3.13 in

Company	TEP ROCKY MOUNTAIN LLC
Well	RU 411-7
Field	RULISON
County	GARFIELD
State	COLORADO