RMWS ROCKY MOUNTAIN WIRELINE SERVICE

TEMPERATURE CCL LOG

Company **TEP ROCKY MOUNTAIN LLC**
Well **RU 512-7**
Field **RULISON**
County **GARFIELD** State **COLORADO**

Location: API # : 05-045-23128-00
QtrQtr; SENW
LAT. 39.456985
LOG. -107.819714
SEC 7 TWP 7S RGE 93W

Other Services

Permanent Datum	G.L.	Elevation 7339'	Elevation
Log Measured From	K.B.	Ft Above PD 24.0'	K.B. 7363'
Drilling Measured From	K.B.		D.F.
			G.L. 7339'

Date	09-15-2016
Run Number	ONE
Depth Driller	9740'
Present Depth Driller	9706'
Depth Logger	9702'
Bottom Logged Interval	9702'
Top Log Interval	SURFACE
Fluid Level	FULL
Type Fluid	WATER
Max. Recorded Temp.	179 ° F
Estimated Cement Top	4100'
Equipment Number	216
Location	GRAND JCT.
Recorded By	MCBROOM
Witnessed By	MR.RAGSDALE

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

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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 5921' TO5944'.

Calibration Report

Database File: 09152016_tep_ru 512-7.db
Dataset Pathname: mainpass/pass1.1
Dataset Creation: Thu Sep 15 05:13:32 2016 by Calc SCH 120430

Temperature Calibration Report

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

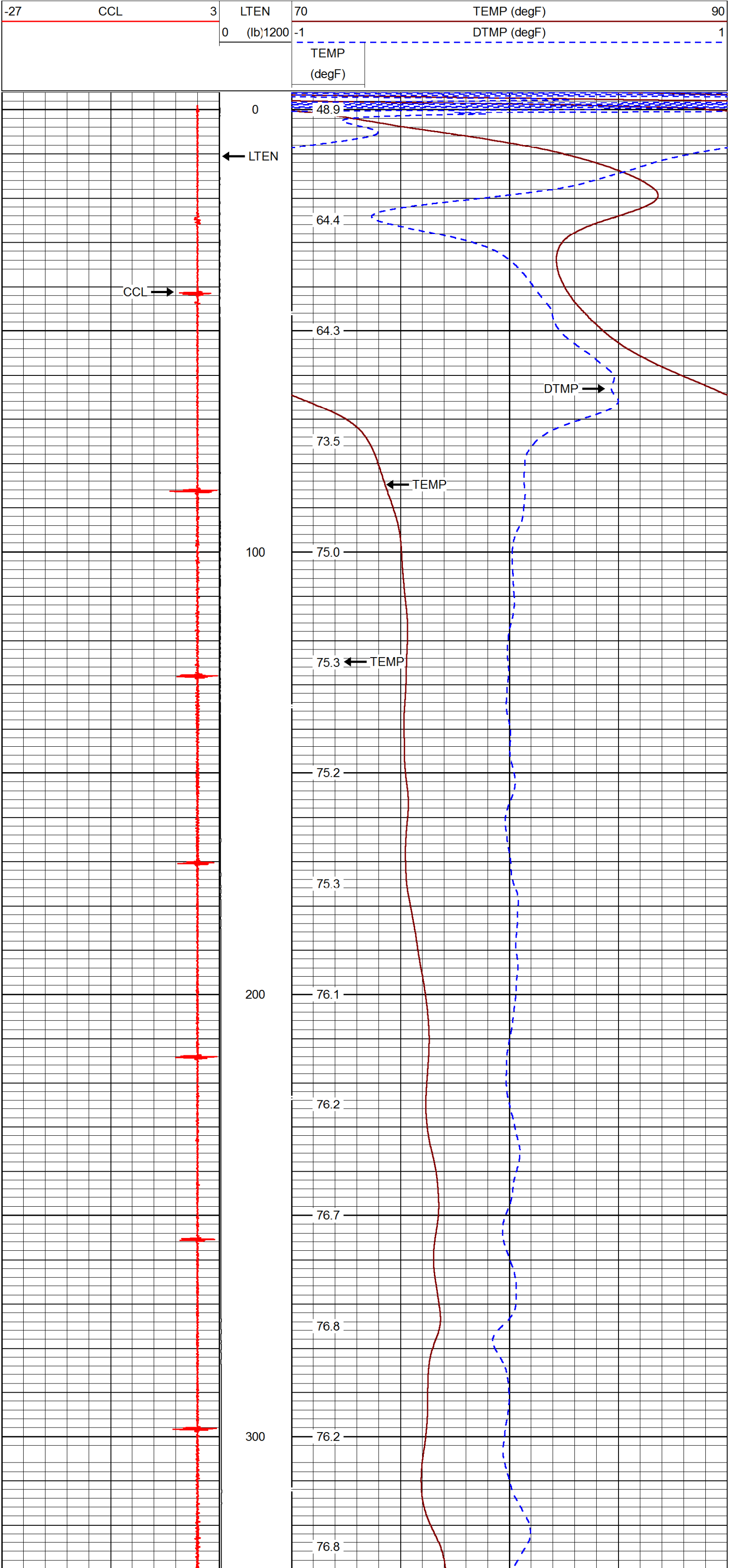
	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	1.00	cps

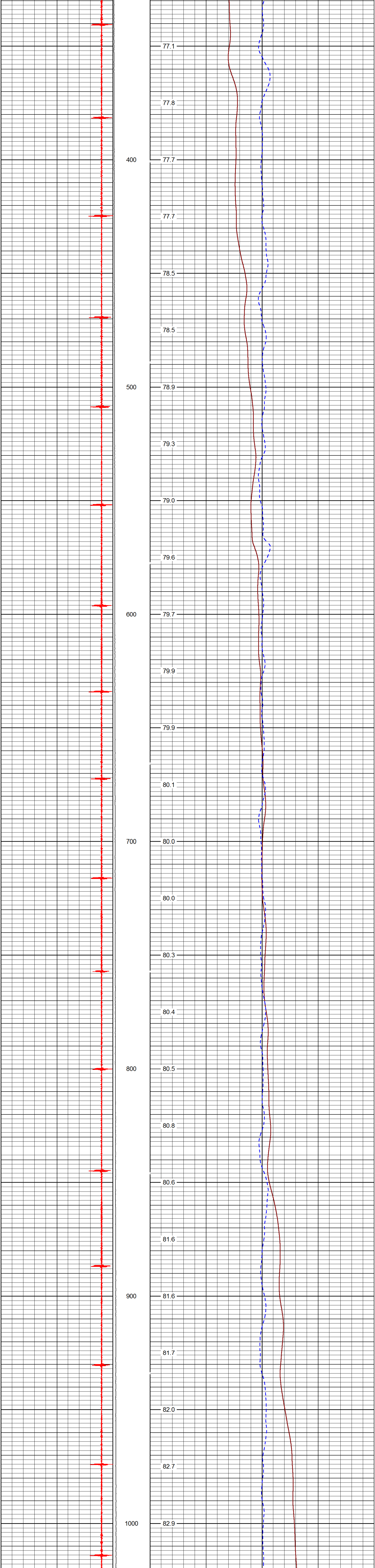
Gain: 0.10
Offset: 0.00
Delta Spacing 2

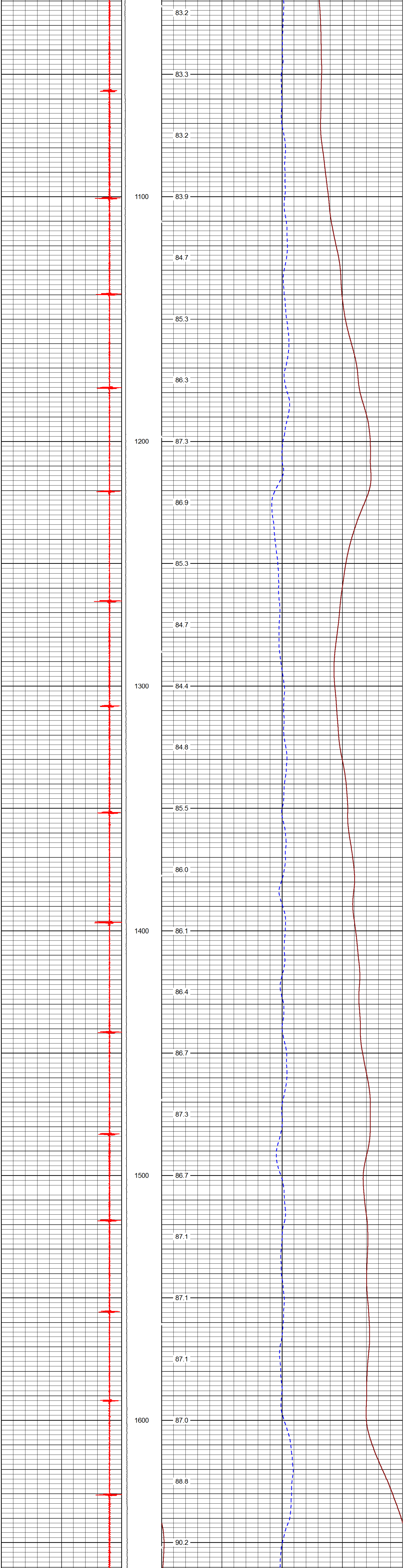
RMWS ROCKY MOUNTAIN WIRELINE SERVICE

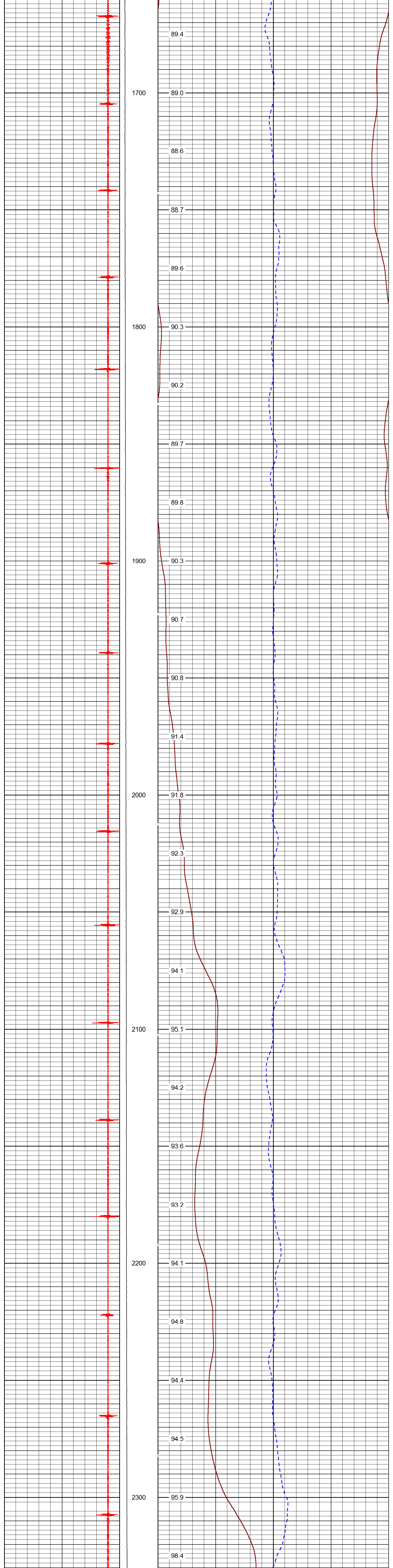
MAIN PASS

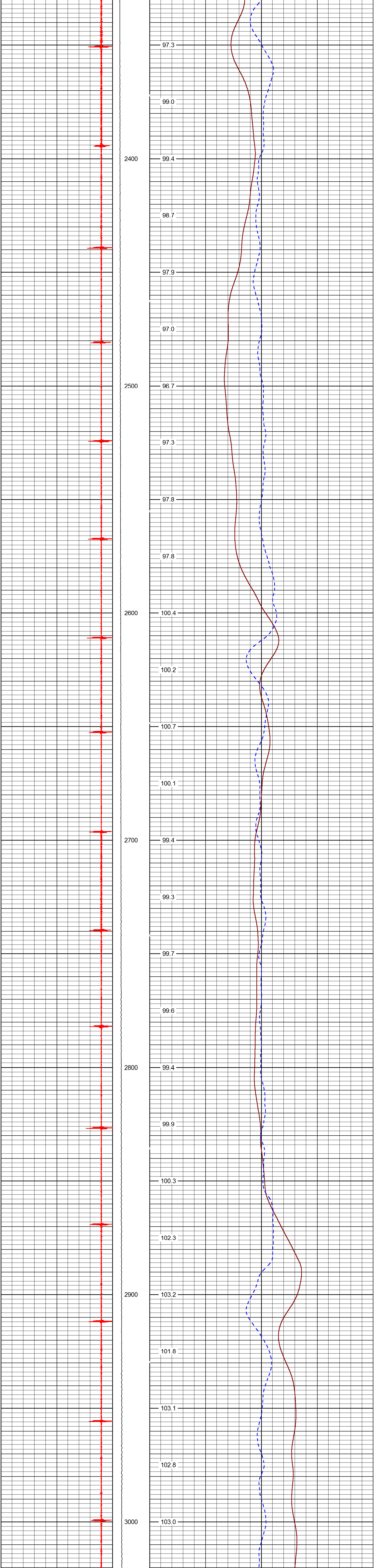
Database File: 09152016_tep_ru 512-7.db
Dataset Pathname: mainpass/pass1
Presentation Format: rmws_temp
Dataset Creation: Thu Sep 15 03:23:44 2016 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

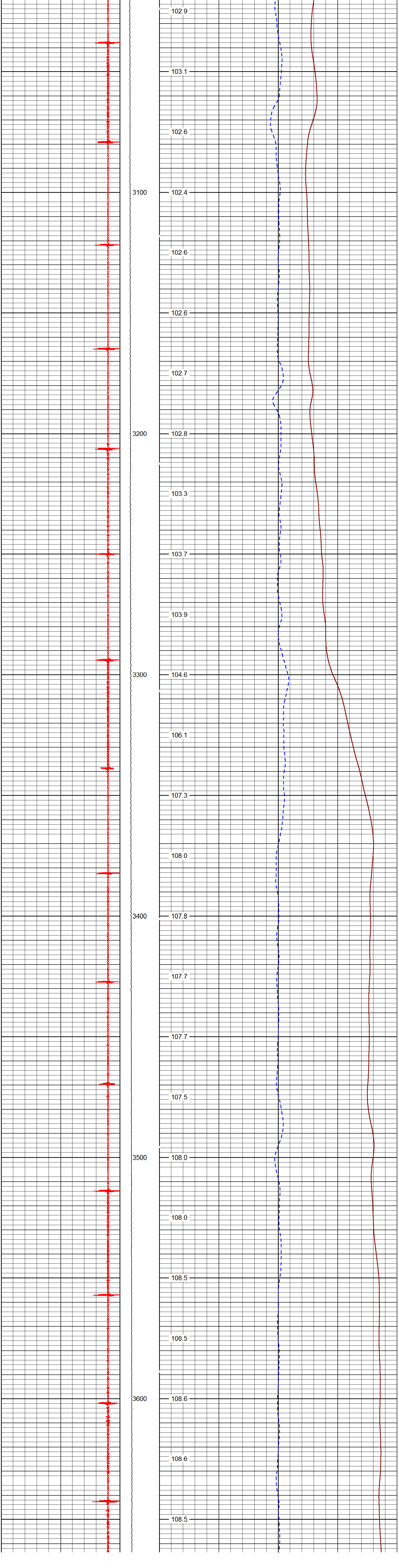


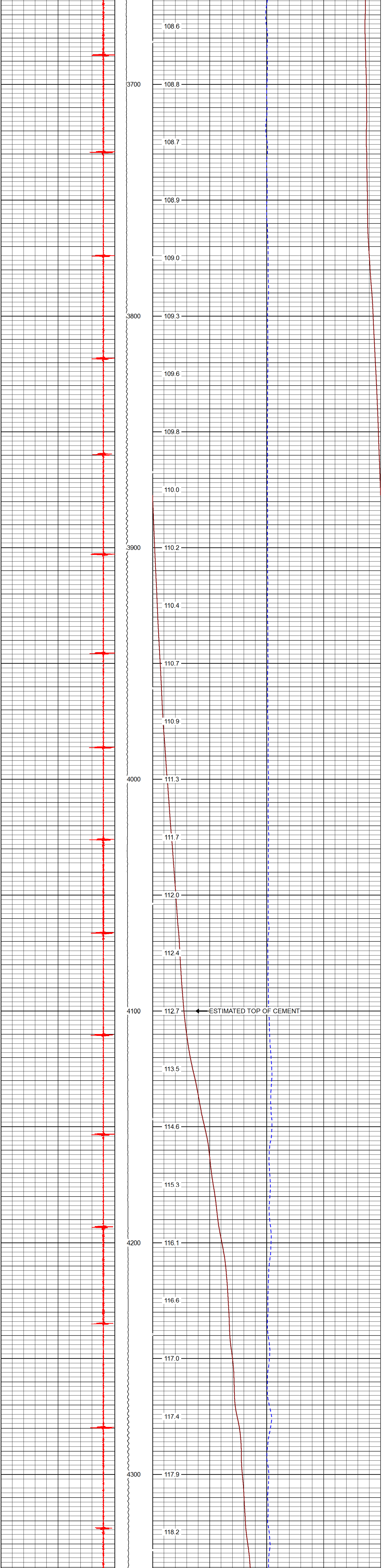








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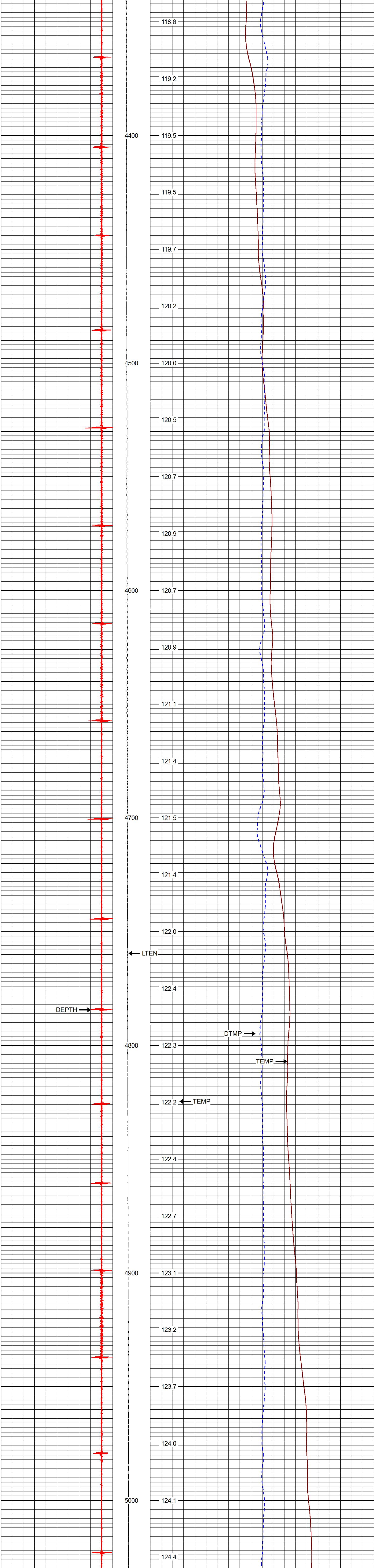
3700
108.8
108.7
108.9
109.0
3800
109.3
109.6
109.8
110.0
3900
110.2
110.4
110.7
110.9
4000
111.3
111.7
112.0
112.4
4100
112.7
ESTIMATED TOP OF CEMENT
113.5
114.6
115.3
4200
116.1
116.6
117.0
117.4
4300
117.9
118.2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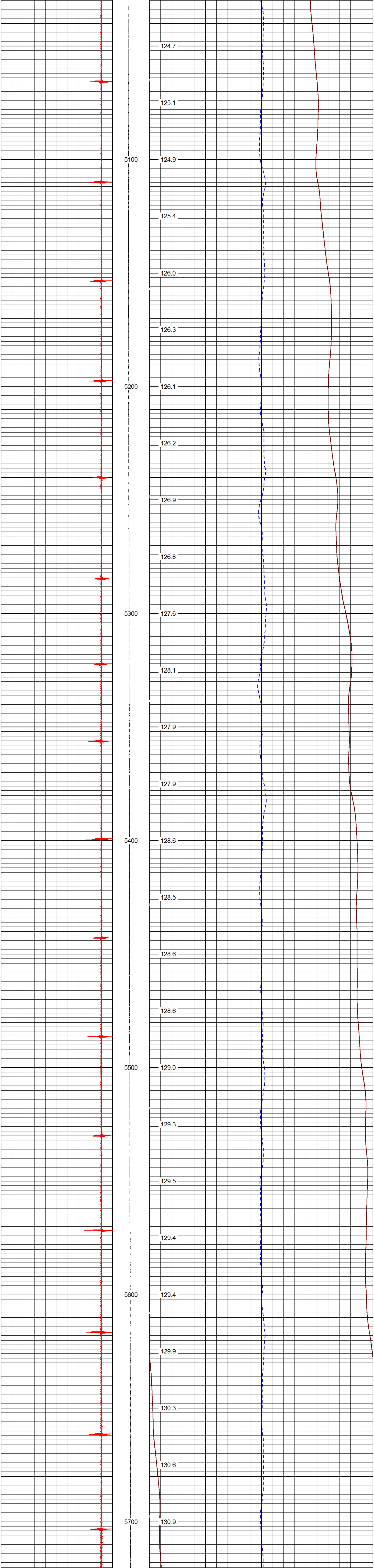
120.0
120.5
120.7
120.9
4600
120.7
120.9
121.1
121.4
4700
121.5
121.4
122.0
LTEN
122.4
DEPTH
DTMP
4800
122.3
TEMP
122.2
TEMP
122.4
122.7
4900
123.1
123.2
123.7
124.0
5000
124.1
124.4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125.1
5100
124.9
125.4
126.0
126.3
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126.1
126.2
126.9
126.8
5300
127.6
128.1
127.9
127.9
5400
128.6
128.5
128.6
128.6
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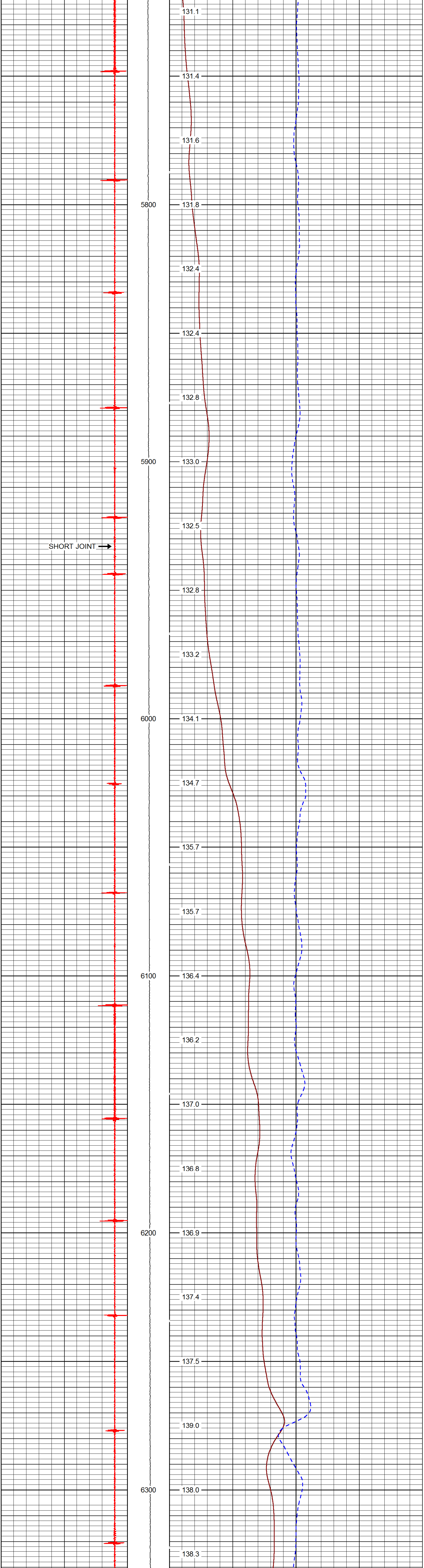
130.9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5800
131.8
132.4
132.4
132.8
5900
133.0
132.5
SHORT JOINT
132.8
133.2
6000
134.1
134.7
135.7
135.7
6100
136.4
136.2
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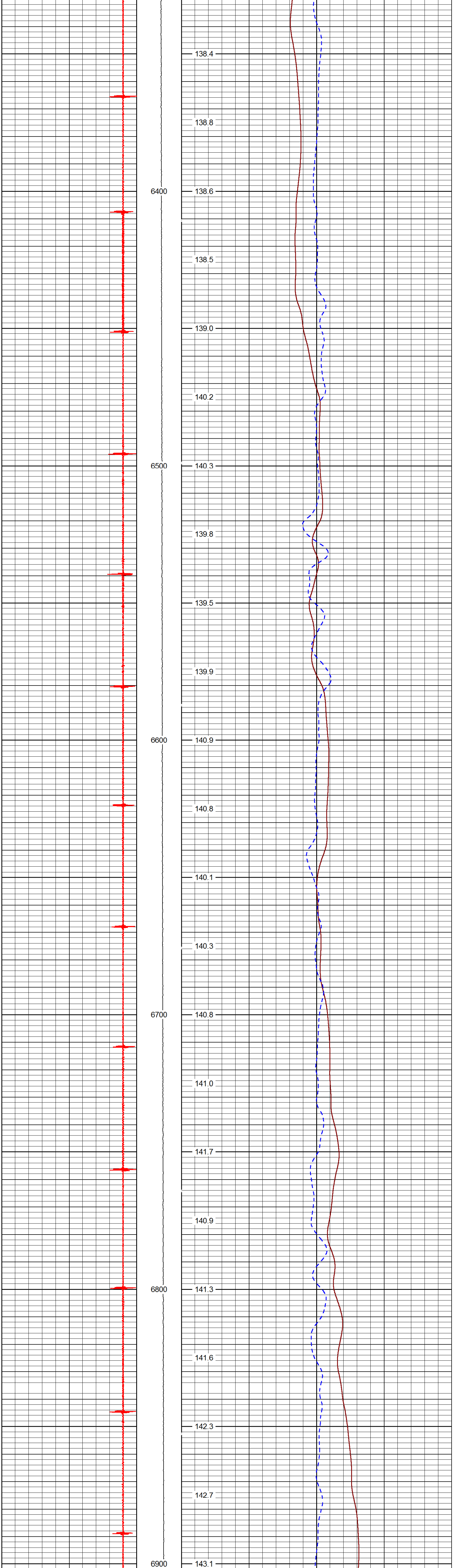
137.5
139.0
6300
138.0
138.3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138.6
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6500
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139.9
6600
140.9
140.8
140.1
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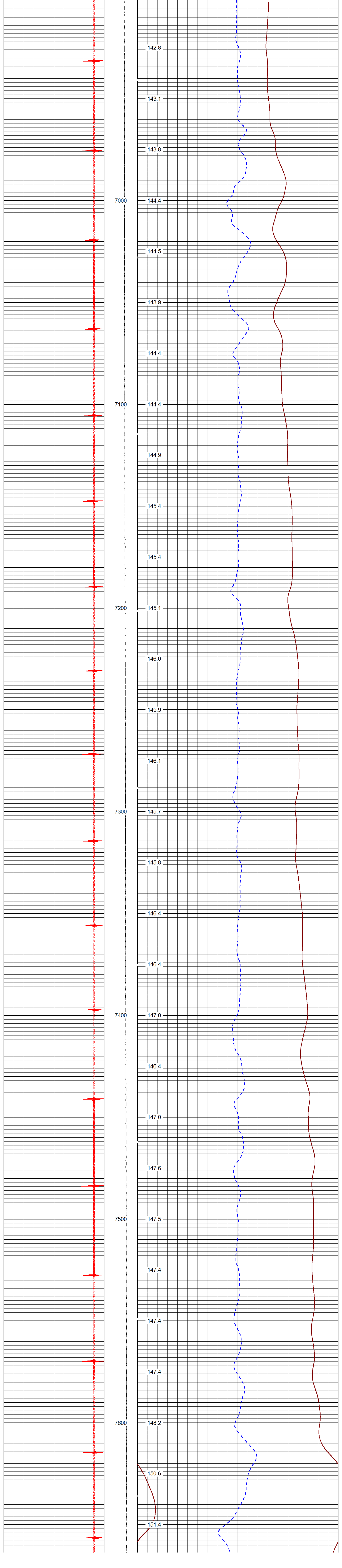
141.6
142.3
142.7
6900
143.1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143.1
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7000
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144.5
143.9
144.4
7100
144.4
144.9
145.4
145.4
7200
145.1
146.0
145.9
146.1
7300
145.7
145.8
146.4
146.4
7400
147.0
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147.0
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7500
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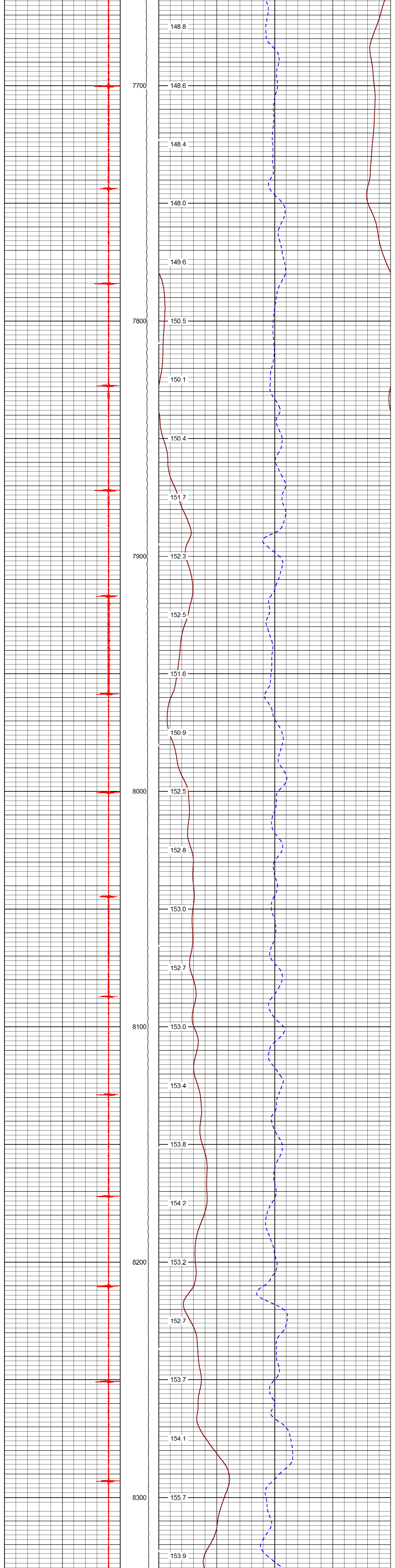
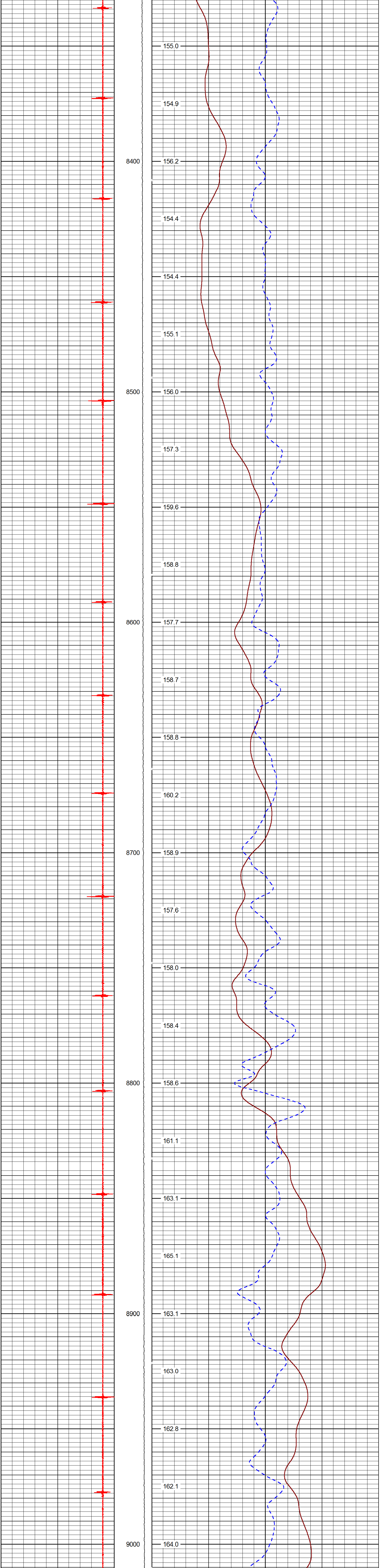
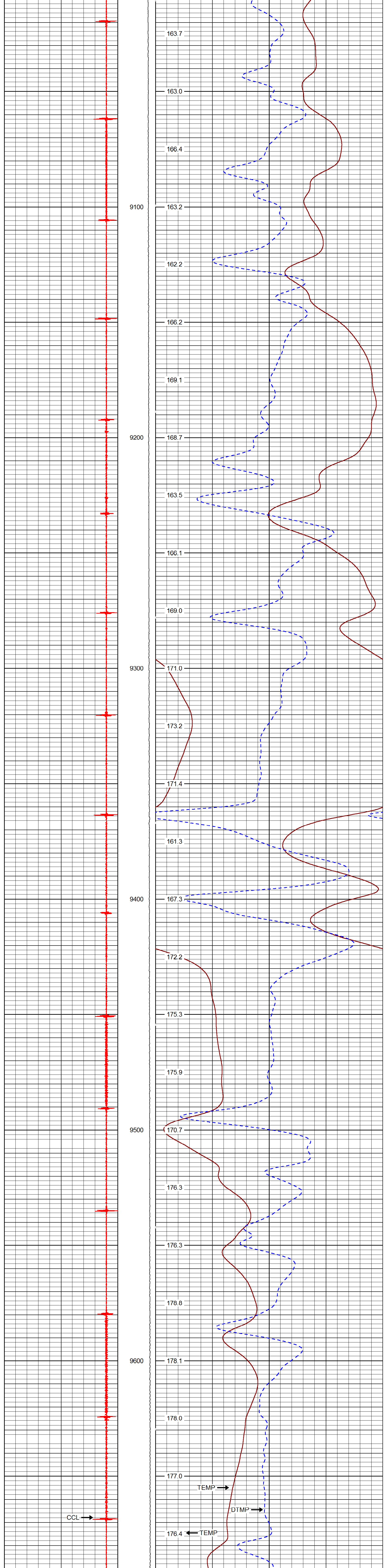
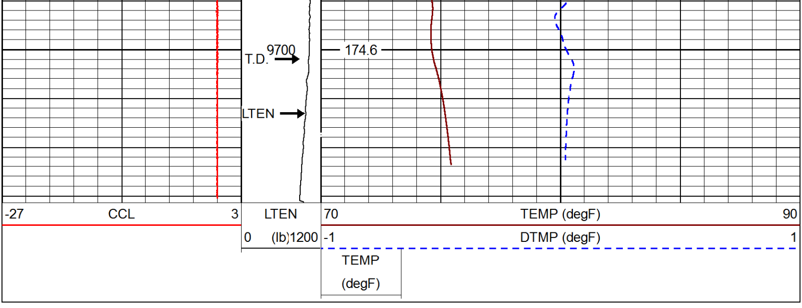
147.4
147.4
147.4
7600
148.2
150.6
151.4





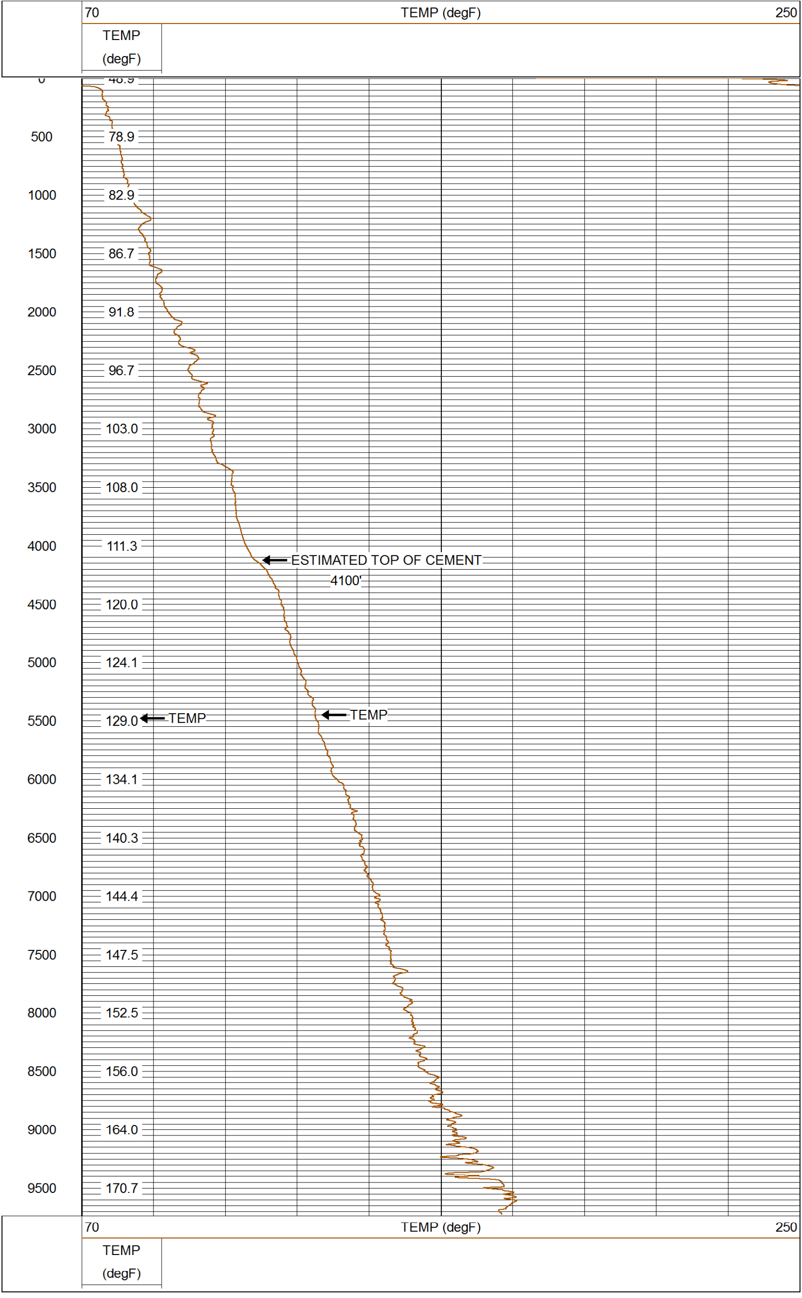




ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS QUICK LOOK

Database File: 09152016_tep_ru 512-7.db
Dataset Pathname: mainpass/pass1.1
Presentation Format: rmtemp_q
Dataset Creation: Thu Sep 15 05:13:32 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	2.44		TEMP-APPLIED (16-53)	2.67	1.38	11.00
CCL	0.79		CCL-3.125_APPLIED (40-01NB) positive or negative voltage logging ccl	2.03	3.13	45.00

Dataset: 09152016_tep_ru 512-7.db: field/well/mainpass/pass1.1
Total Length: 4.69 ft
Total Weight: 56.00 lb
O.D. 3.13 in

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Well	RU 512-7
Field	RULISON
County	GARFIELD
State	COLORADO