TEMPERATURE CCL LOG

ROCKY MOUNTAIN WIRELINE SERVICE

Company	**TEP ROCKY MOUNTAIN LLC**		
Well	**RU 424-7**		
Field	**RULISON**		
County	**GARFIELD**	State	**COLORADO**

Location: API # : 05-045-23258
QtrQtr; NWSW
LAT. 39.452179
LON. -107.825805
SEC 7 TWP 7S RGE 93W

Other Services

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

Date	12-31-2016		
Run Number	ONE		
Depth Driller	9971'		
Present Depth Driller	9928'		
Depth Logger	9940'		
Bottom Logged Interval	9940'		
Top Log Interval	SURFACE		
Fluid Level	FULL		
Type Fluid	WATER		
Max. Recorded Temp.	190.0°F		
Estimated Cement Top	4166'		
Equipment Number	216		
Location	GRAND JCT.		
Recorded By	CHEPKO	MCBROOM	
Witnessed By	MR. ABBEY		

Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				4.50"	11.6#	SURFACE	9960.8

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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 6174' TO 6197'

Calibration Report

Database File: 12312016_tep_ru424-7.db
Dataset Pathname: mainpass/pass1.1
Dataset Creation: Sat Dec 31 09:39:47 2016 by Calc SCH 120430

Temperature Calibration Report

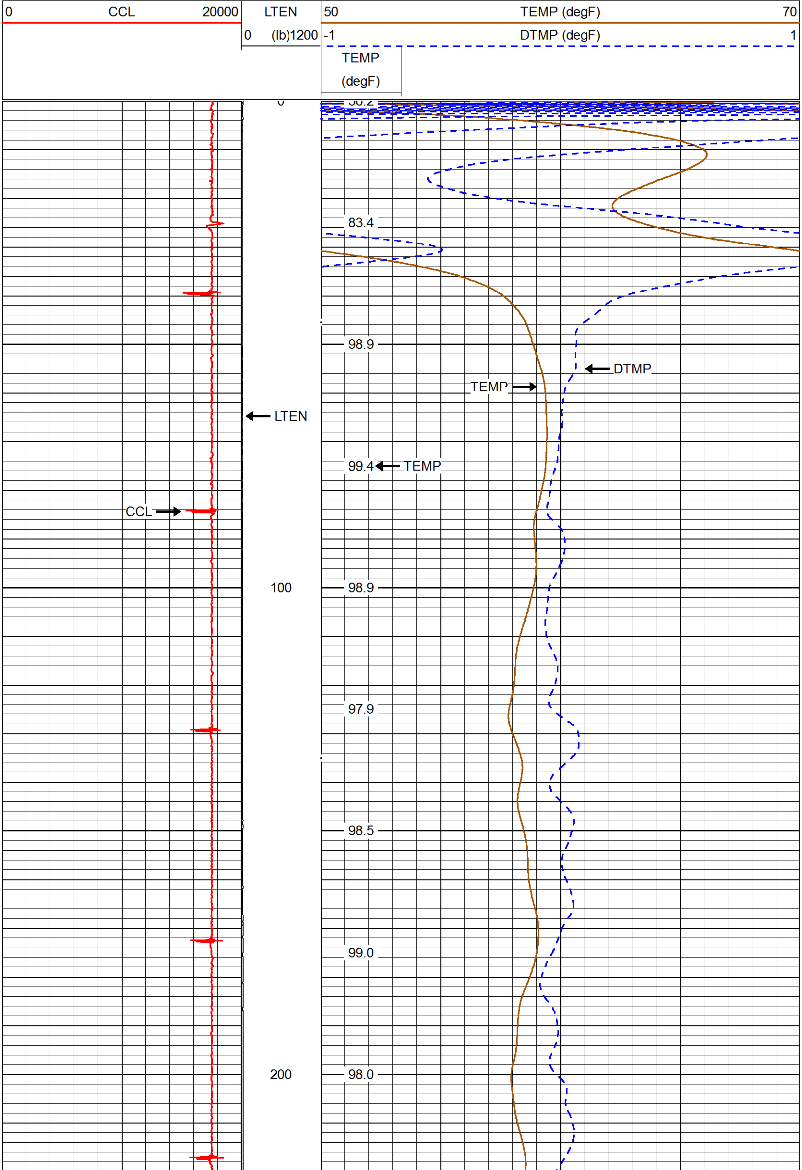
Serial Number: 217894
Tool Model: 016
Performed: Wed Aug 31 11:06:54 2016

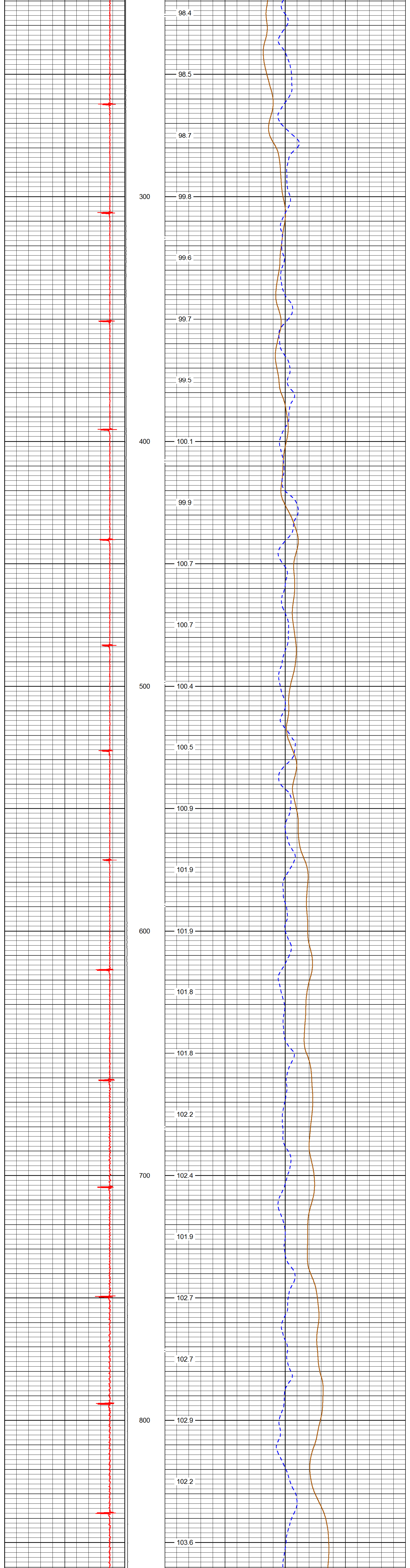
Point #	Reading		Reference	
1	13298.00	cps	77.97	degF
2	17844.00	cps	104.32	degF
3	29434.00	cps	175.71	degF
4	41028.00	cps	246.70	degF
5	52674.00	cps	317.75	degF
6	58555.00	cps	353.61	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

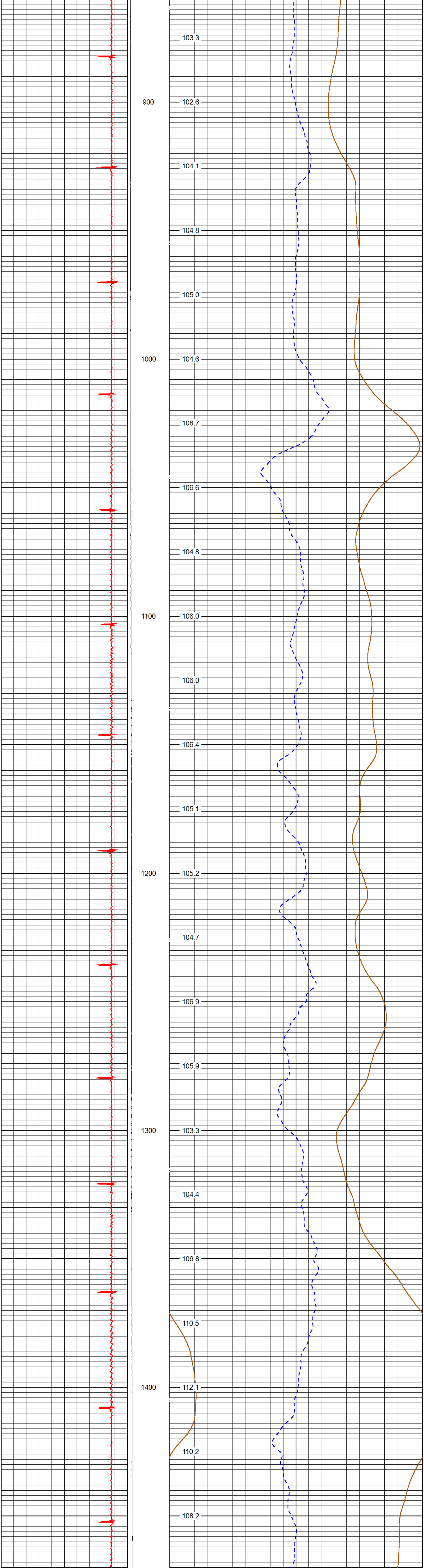
ROCKY MOUNTAIN WIRELINE SERVICE

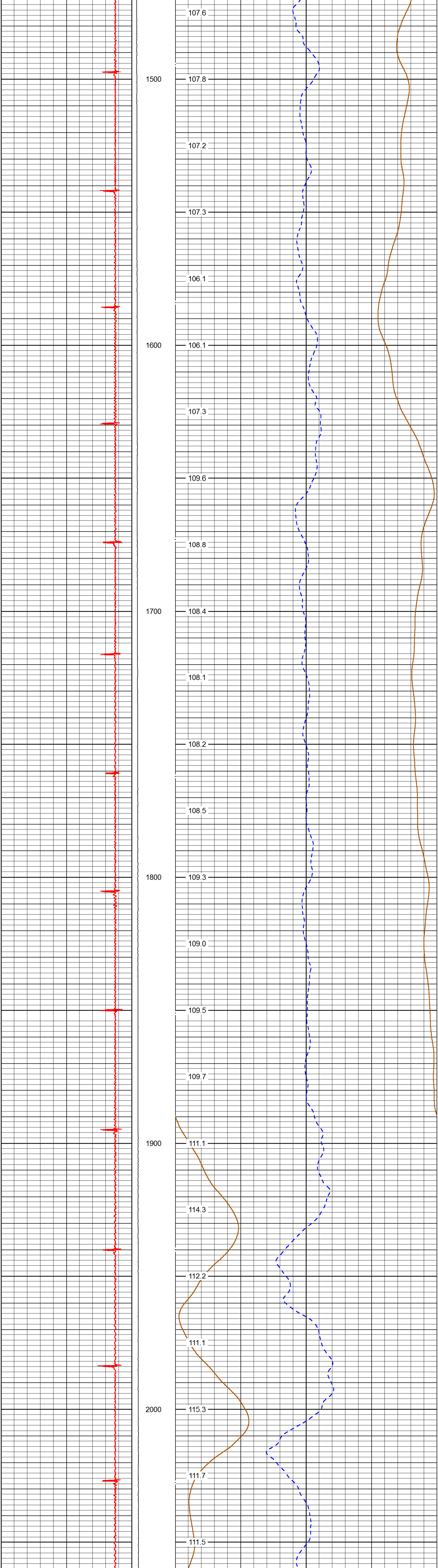
MAIN PASS

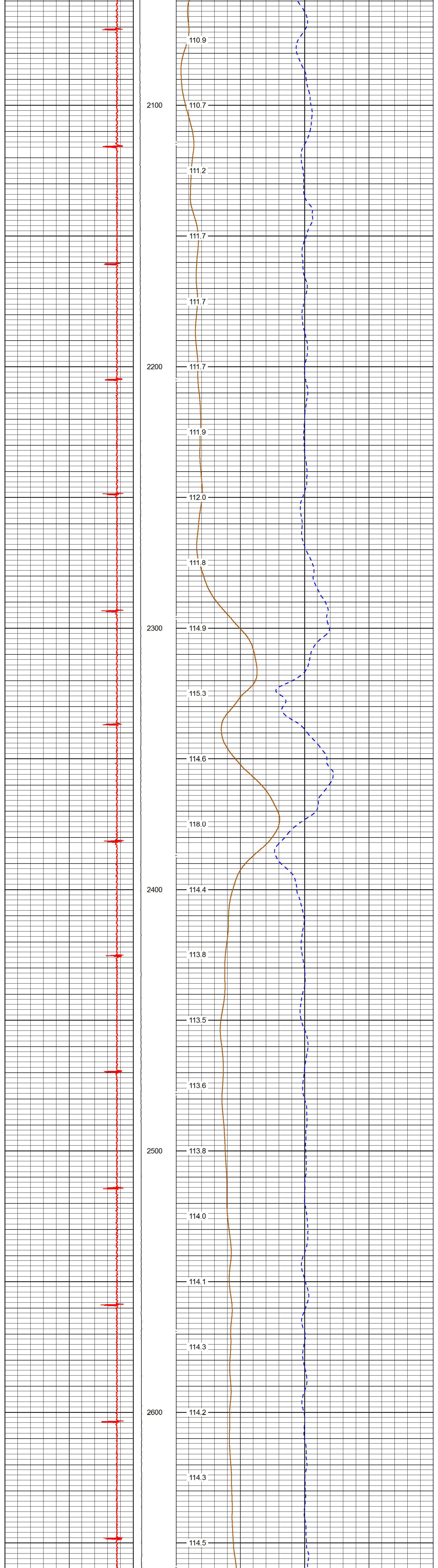
Database File: 12312016_tep_ru424-7.db
Dataset Pathname: mainpass/pass1
Presentation Format: rmws_tem
Dataset Creation: Sat Dec 31 07:45:21 2016 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

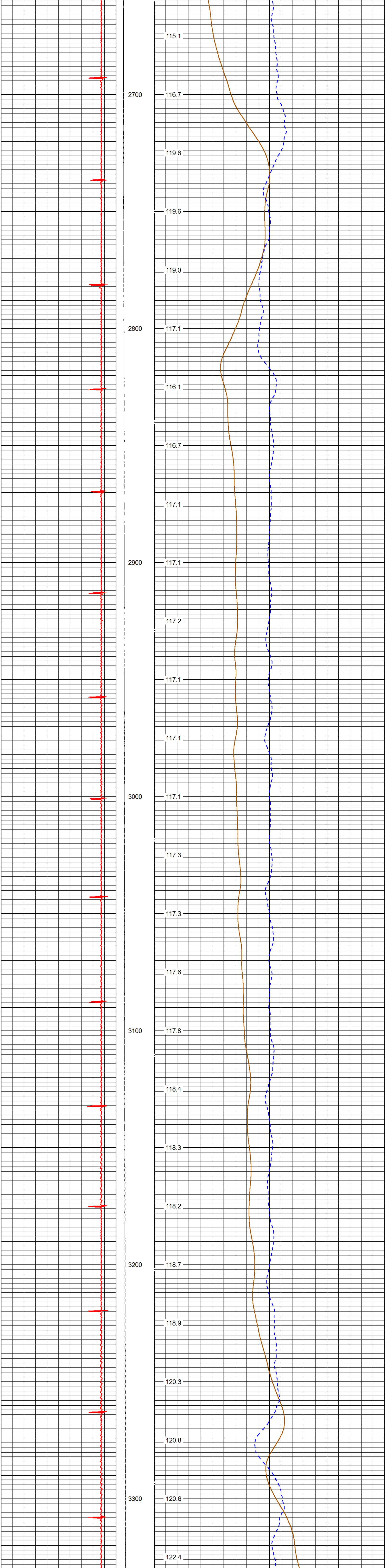


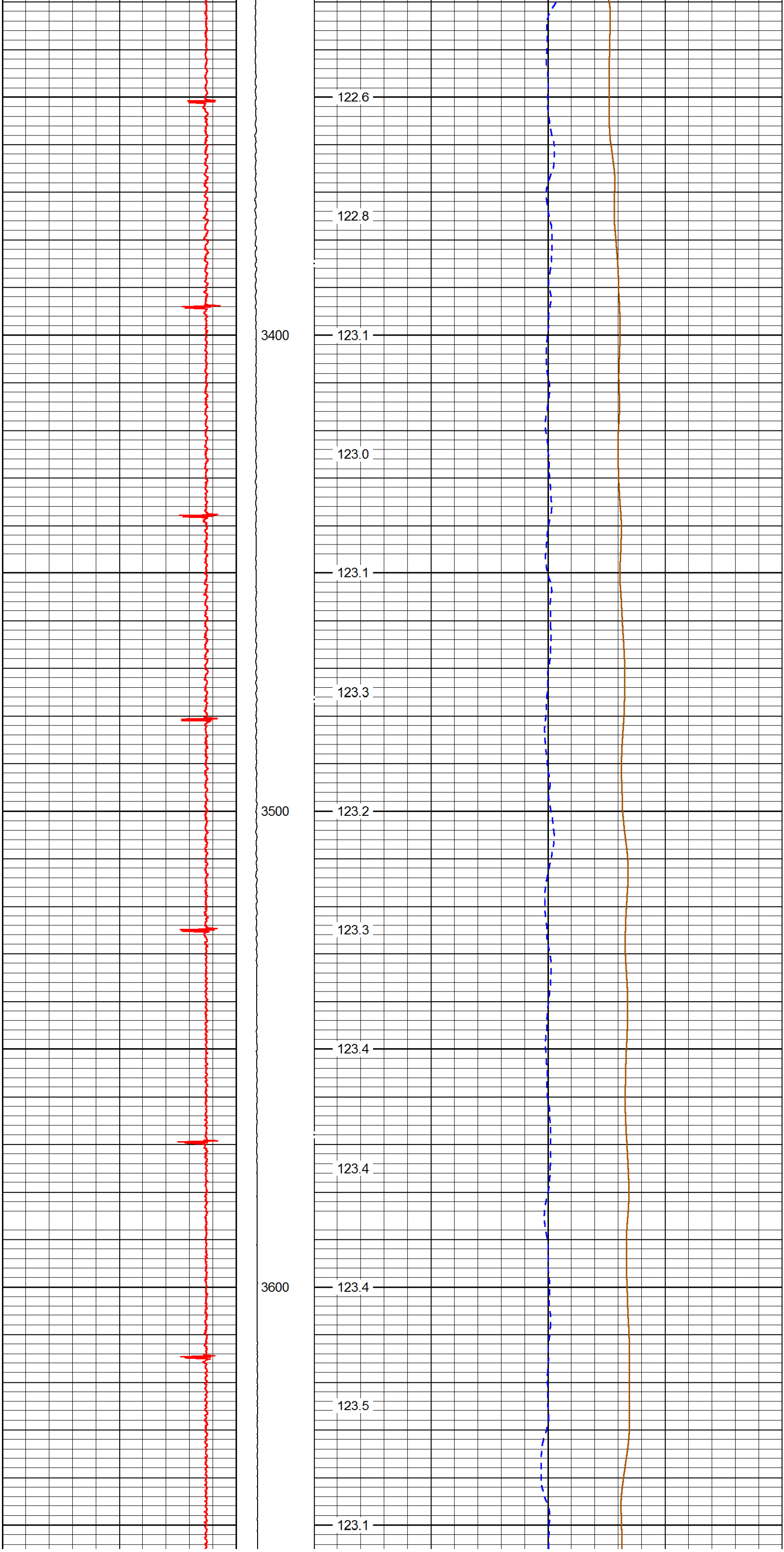


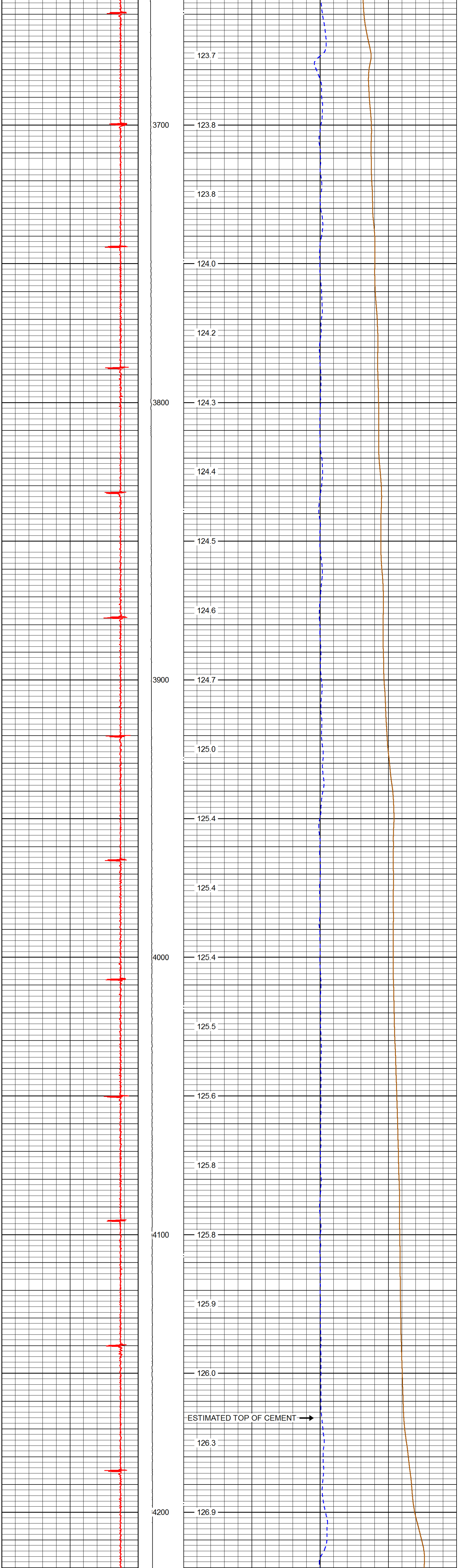








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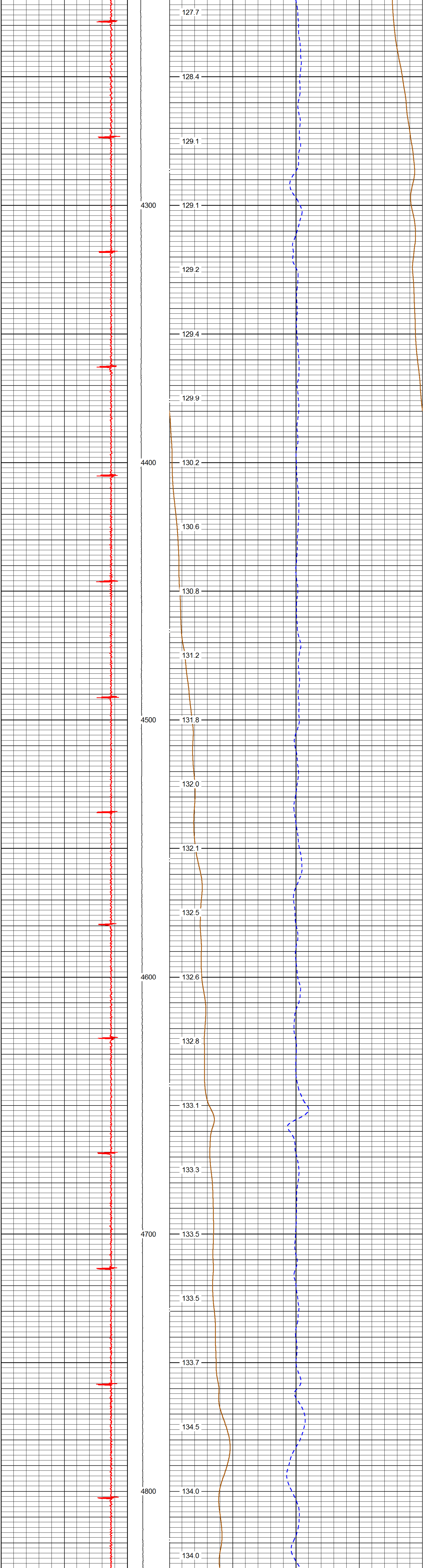
3700
123.8
123.8
124.0
124.2
3800
124.3
124.4
124.5
124.6
3900
124.7
125.0
125.4
125.4
4000
125.4
125.5
125.6
125.8
4100
125.8
125.9
126.0
ESTIMATED TOP OF CEMENT
126.3
4200
126.9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129.9
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130.2
130.6
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131.2
4500
131.8
132.0
132.1
132.5
4600
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133.5
133.7
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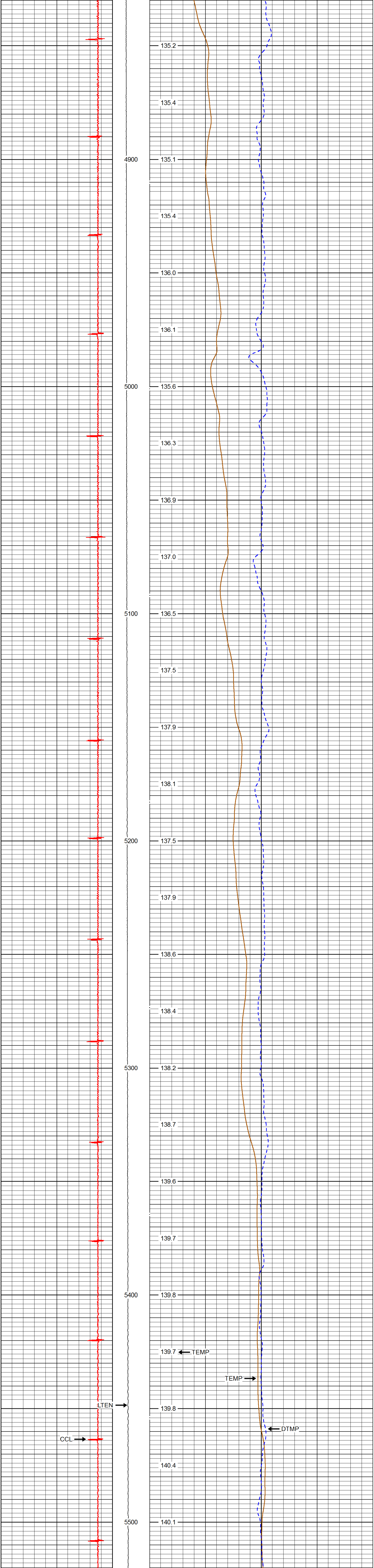
4800
134.0
134.0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136.5
137.5
137.9
138.1
5200
137.5
137.9
138.6
138.4
5300
138.2
138.7
139.6
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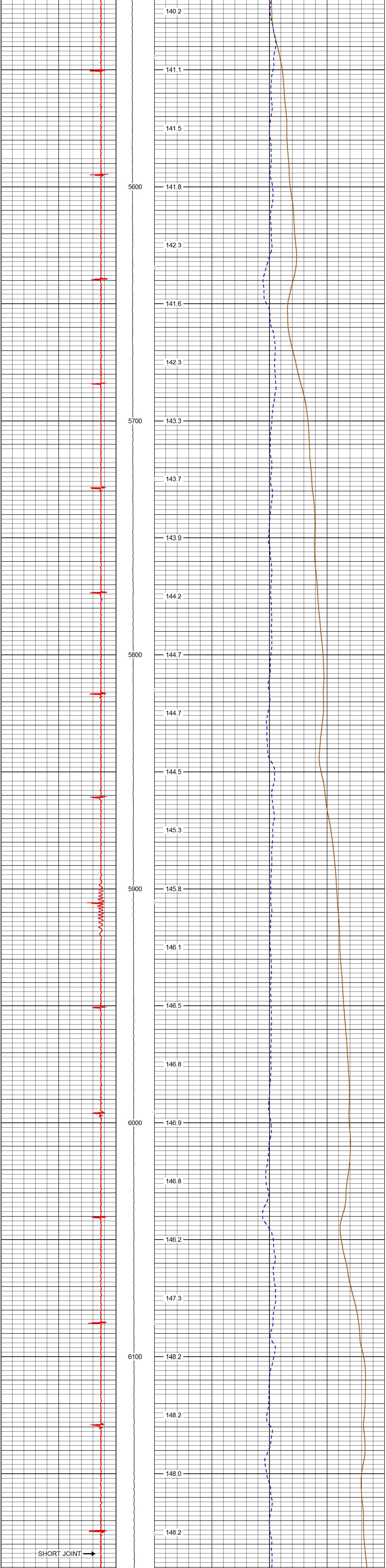
139.8
139.7
TEMP
TEMP
LTEN
139.8
DTMP
CCL
140.4
5500
140.1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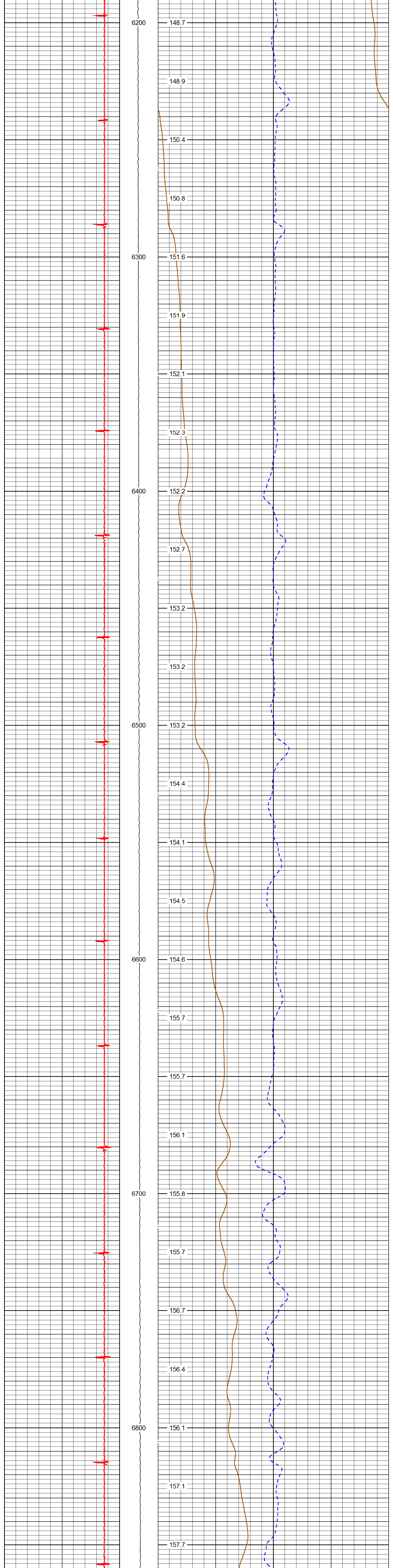
144.5
145.3
5900
145.8
146.1
146.5
146.8
6000
146.9
146.8
146.2
147.3
6100
148.2
148.2
148.0
148.2
SHORT JOINT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148.9
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152.2
152.7
153.2
153.2
6500
153.2
154.4
154.1
154.5
6600
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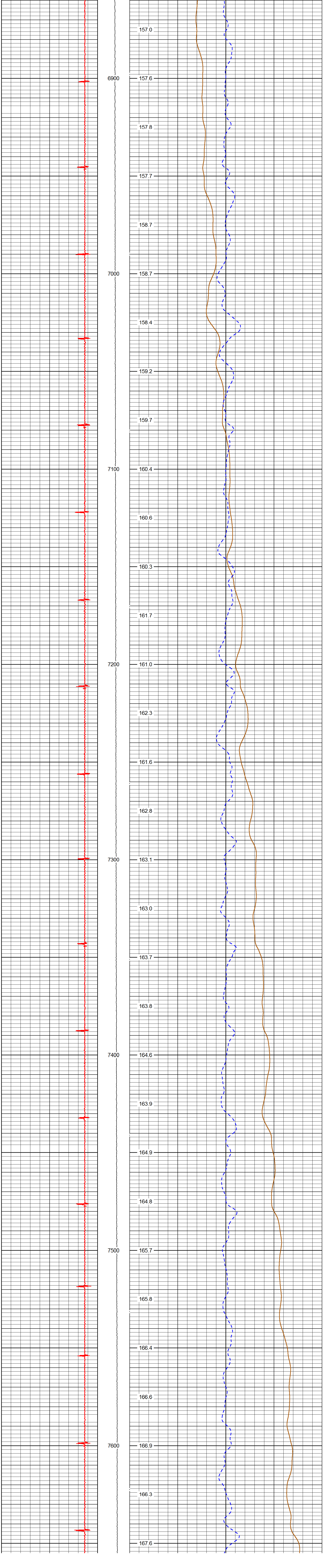
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160.3
161.7
7200
161.0
162.3
161.6
162.8
7300
163.1
163.0
163.7
163.8
7400
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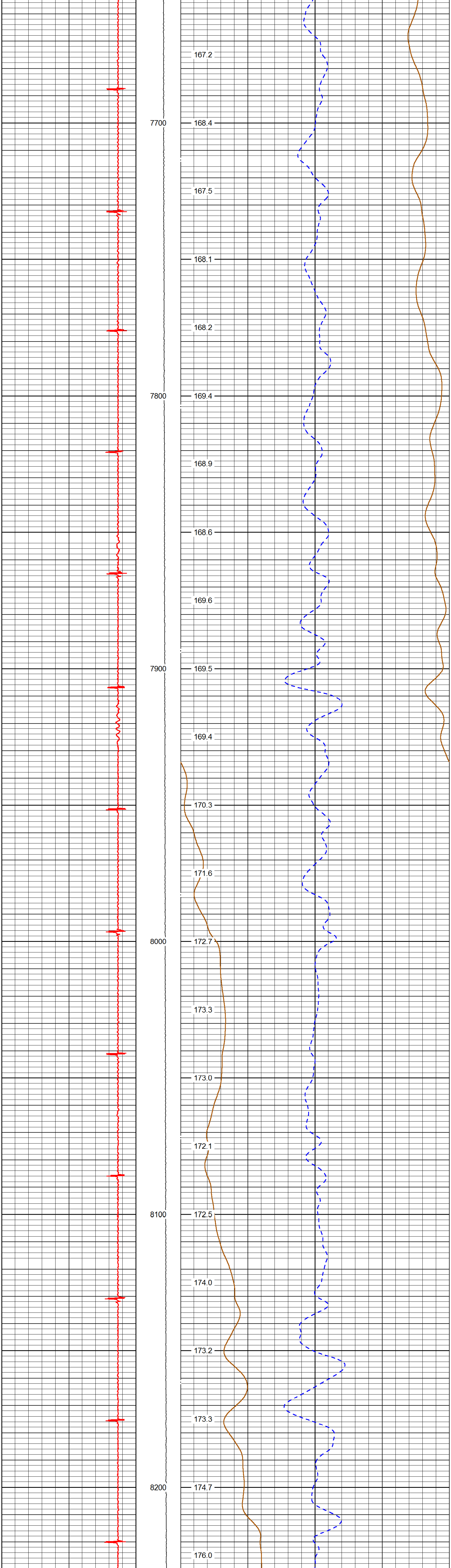
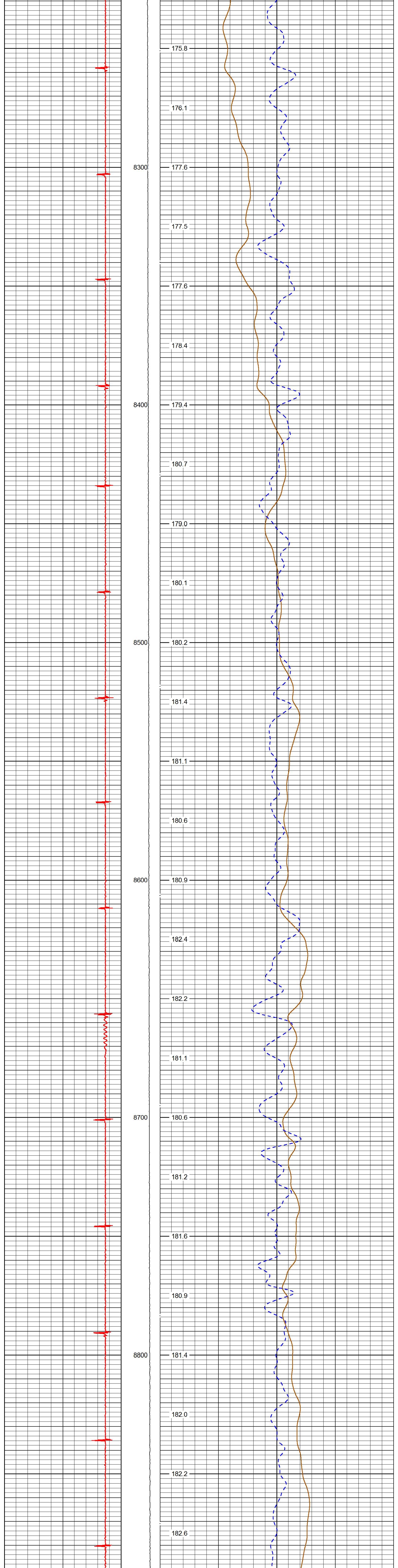
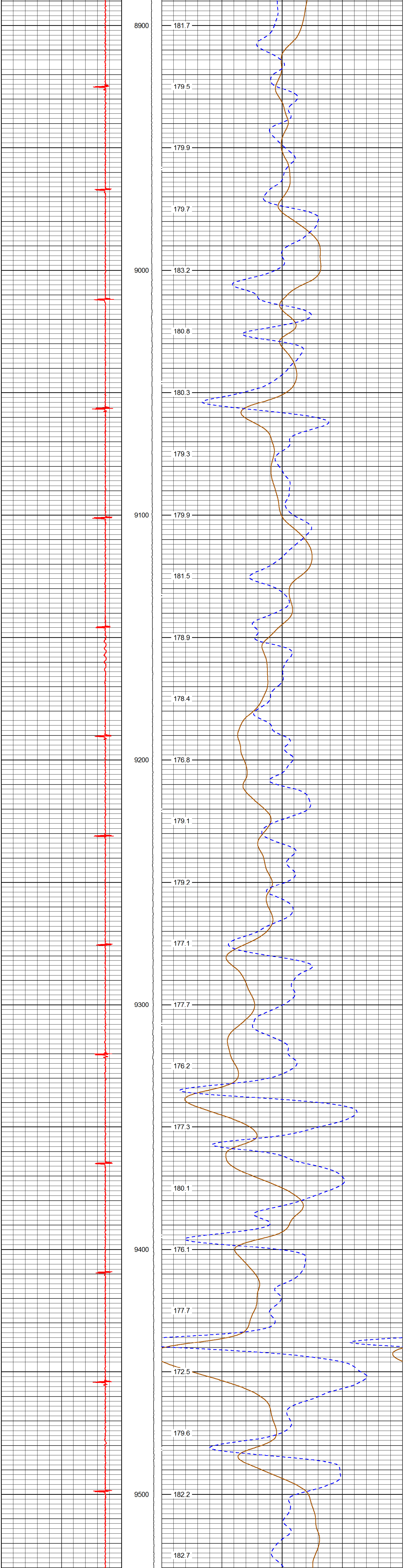
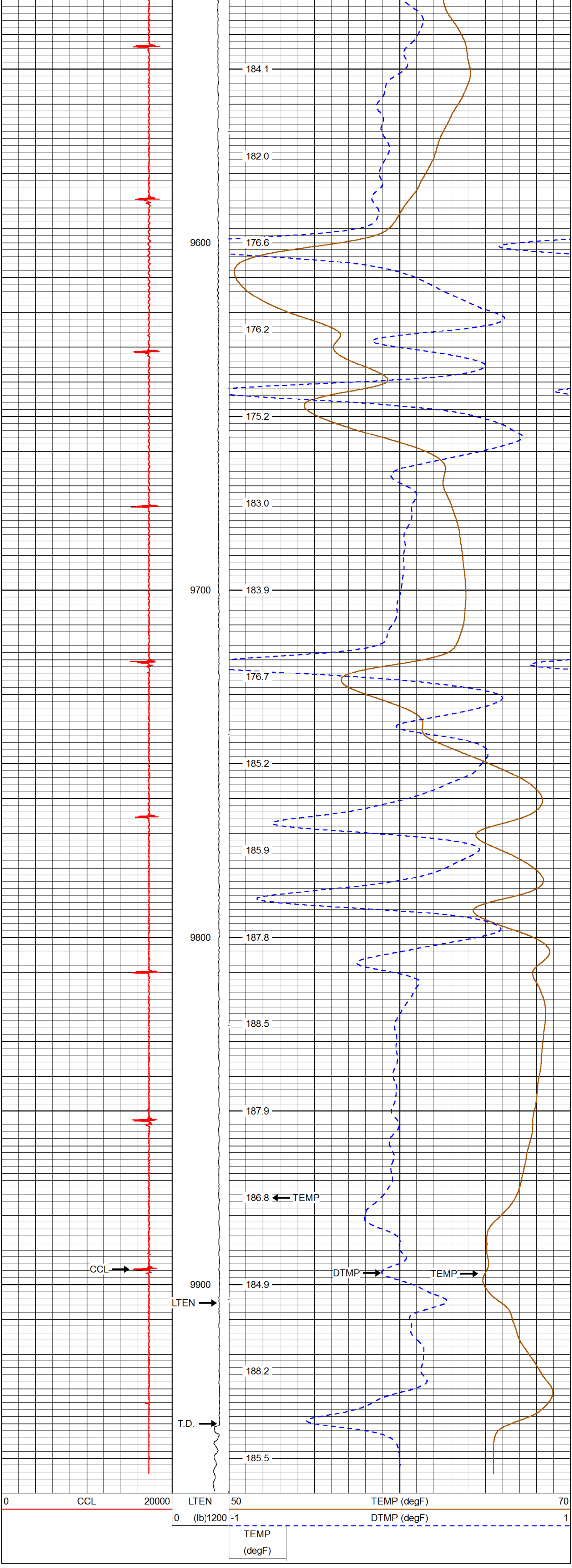
166.9
166.3
167.6





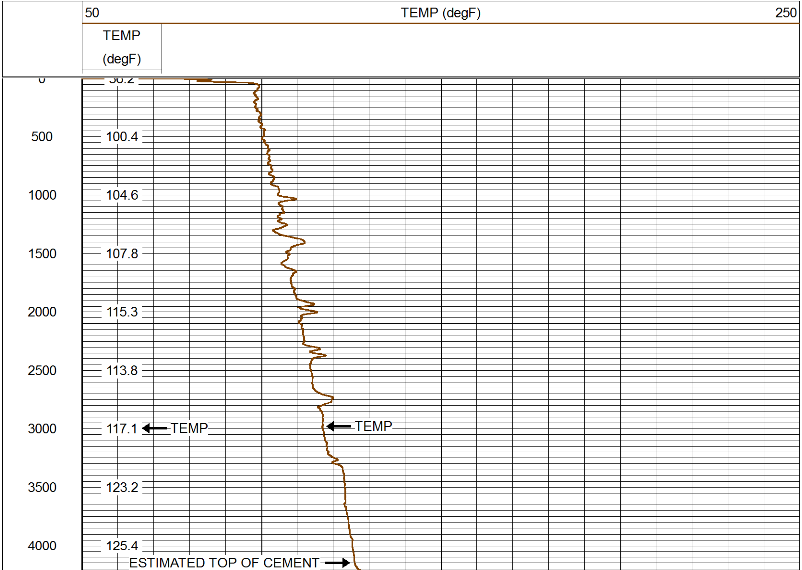


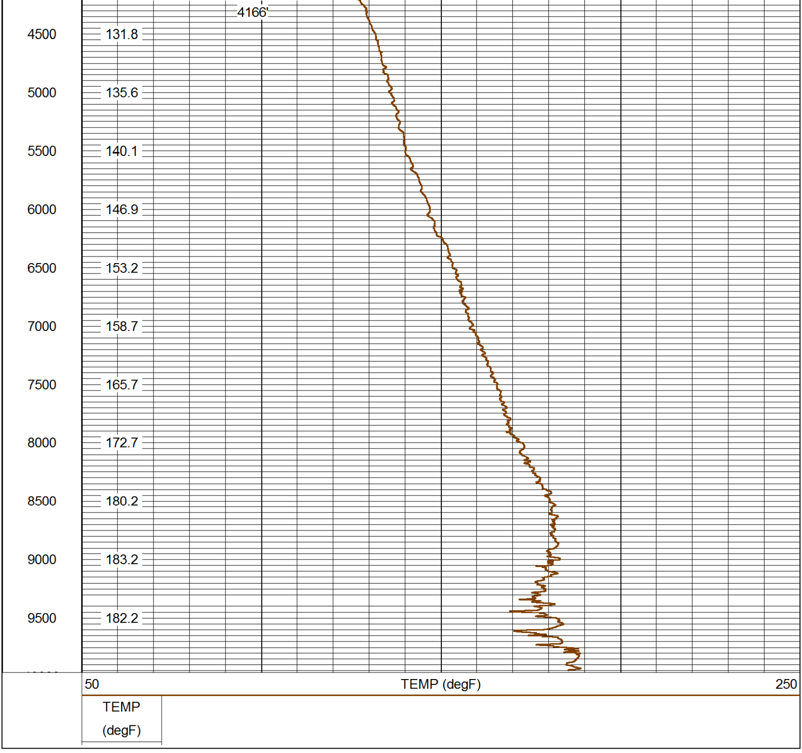


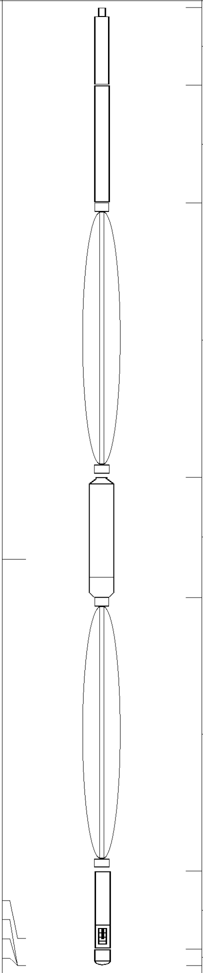
ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS (QUICK LOOK)

Database File:	12312016_tep_ru424-7.db
Dataset Pathname:	mainpass/pass1.1
Presentation Format:	rmtmp_ql
Dataset Creation:	Sat Dec 31 09:39:47 2016 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:10000





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-002 (216414) Crossover Ultrawire Toolbus To Ultralink	1.58	1.69	6.50
			PRC-123 (BS-101) SIE-Bowspring centralizer with Applied adaptors-1 11/16"	3.68	1.69	15.00
CCL	5.45		CCL-028 (1037) CCL UW 3 1/8" SONDEX	1.61	3.13	36.00
			PRC-123 (BS-102) SIE-Bowspring centralizer with Applied adaptors-1 11/16"	3.68	1.69	15.00
TEMP TSTAMP ITEMPX HVOLTX	0.37 0.00 0.00 0.00		PRT-016 (217894) Platinum Resistance Thermometer	1.04	1.69	6.00
			BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset:	12312016_tep_ru424-7.db: field/well/mainpass/pass1.1
Total Length:	12.85 ft
Total Weight:	81.70 lb
O.D.	3.13 in

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

Company	TEP ROCKY MOUNTAIN LLC
Well	RU 424-7
Field	RULISON
County	GARFIELD
State	COLORADO