ROCKY MOUNTAIN WIRELINE SERVICE

TEMPERATURE CCL LOG

Company	**TEP ROCKY MOUNTAIN LLC**
Well	**RU 413-7**
Field	**RULISON**
County	**GARFIELD**
State	**COLORADO**

Location: API # : 05-045-23257-00
QtrQtr; NWSW
LAT. 39.452118
LON. -107.825801
SEC 7 TWP 7S RGE 93W

Other Services

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

Elevation
K.B. 7381'
D.F.
G.L. 7357'

Date	11-30-2016		
Run Number	ONE		
Depth Driller	9422'		
Present Depth Driller	9383'		
Depth Logger	9394'		
Bottom Logged Interval	9394'		
Top Log Interval	SURFACE		
Fluid Level	FULL		
Type Fluid	WATER		
Max. Recorded Temp.	194.7°F		
Estimated Cement Top	3714'		
Equipment Number	216		
Location	GRAND JCT.		
Recorded By	MCBROOM/CHEPKO		
Witnessed By	MR. BROWN		

Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				4.50"	11.6#	SURFACE	9412'

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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 5484' TO 5505'.

Calibration Report

Database File: 113016_tep_ru413-7.db
Dataset Pathname: mainpass/pass1.1
Dataset Creation: Wed Nov 30 12:26:27 2016 by Calc SCH 120430

Temperature Calibration Report

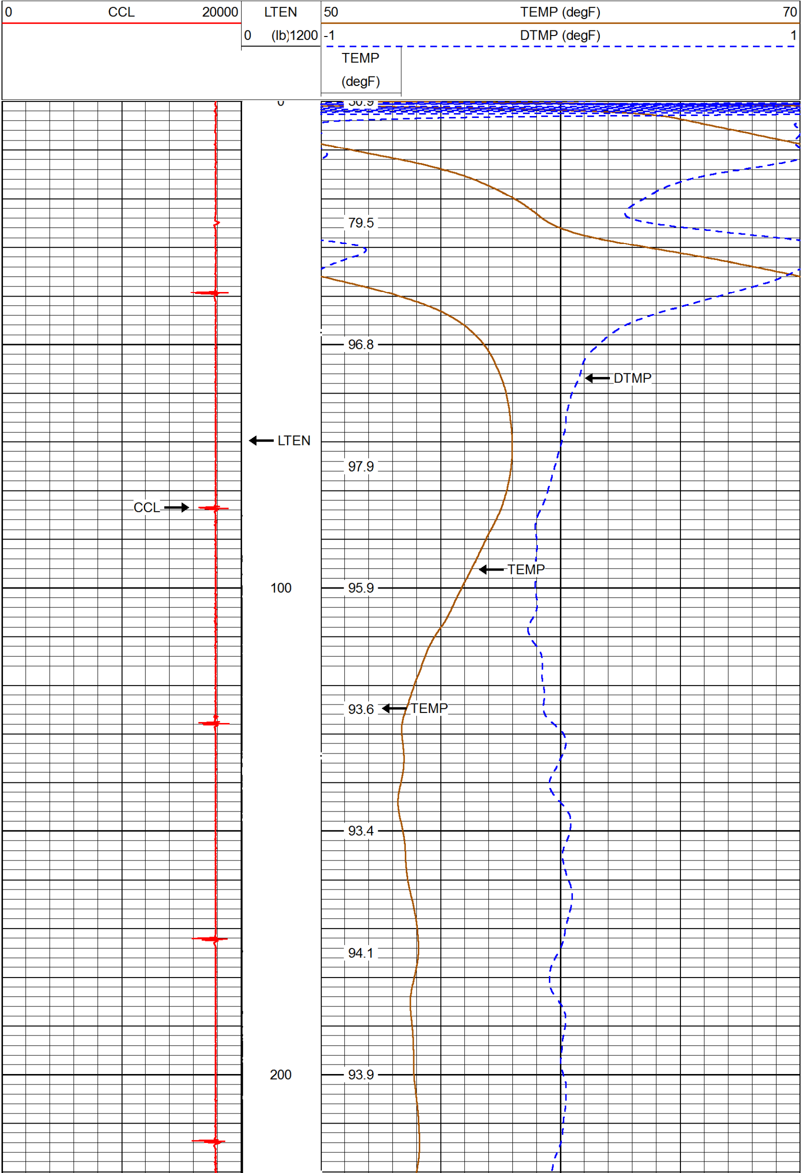
Serial Number: 10006811
Tool Model: 016
Performed: Mon Apr 30 17:22:18 2012

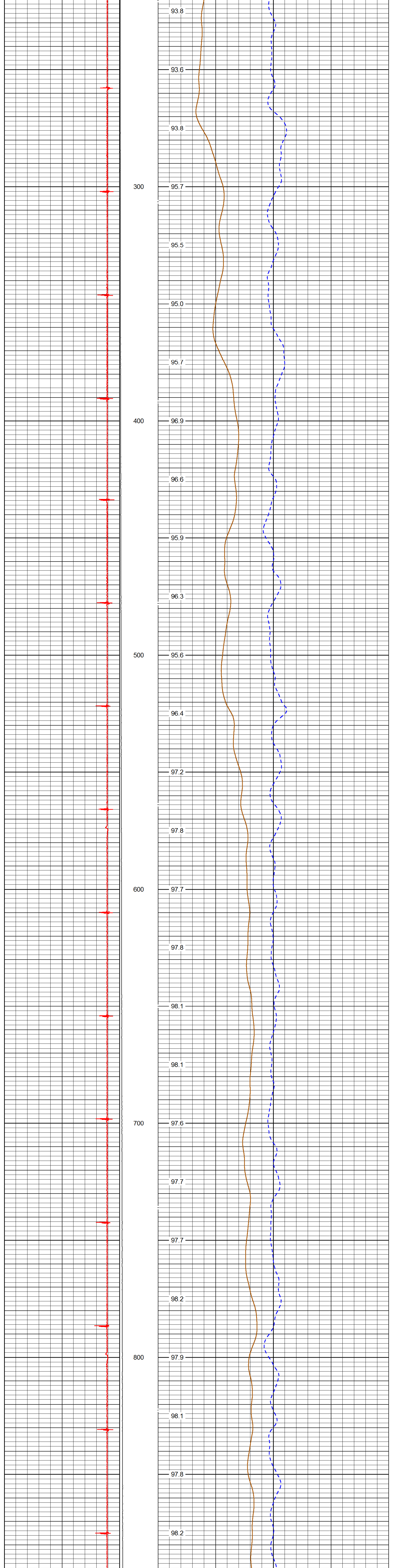
Point #	Reading		Reference	
1	11649.00	cps	65.14	degF
2	18183.00	cps	105.26	degF
3	29168.00	cps	174.16	degF
4	40750.00	cps	246.15	degF
5	51960.00	cps	317.35	degF
6	57688.00	cps	353.34	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

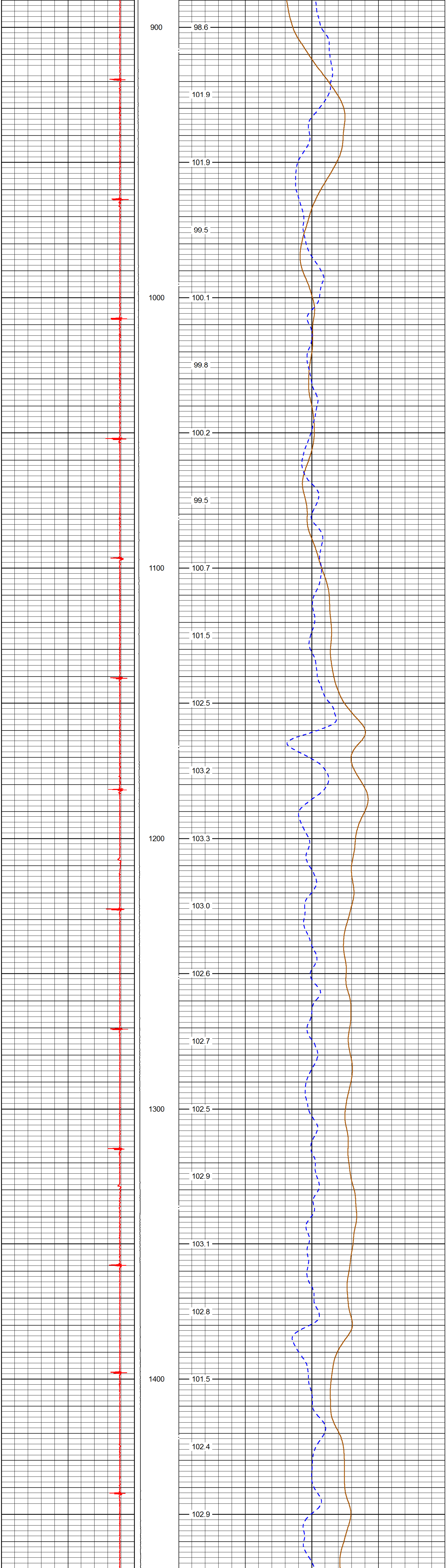
ROCKY MOUNTAIN WIRELINE SERVICE

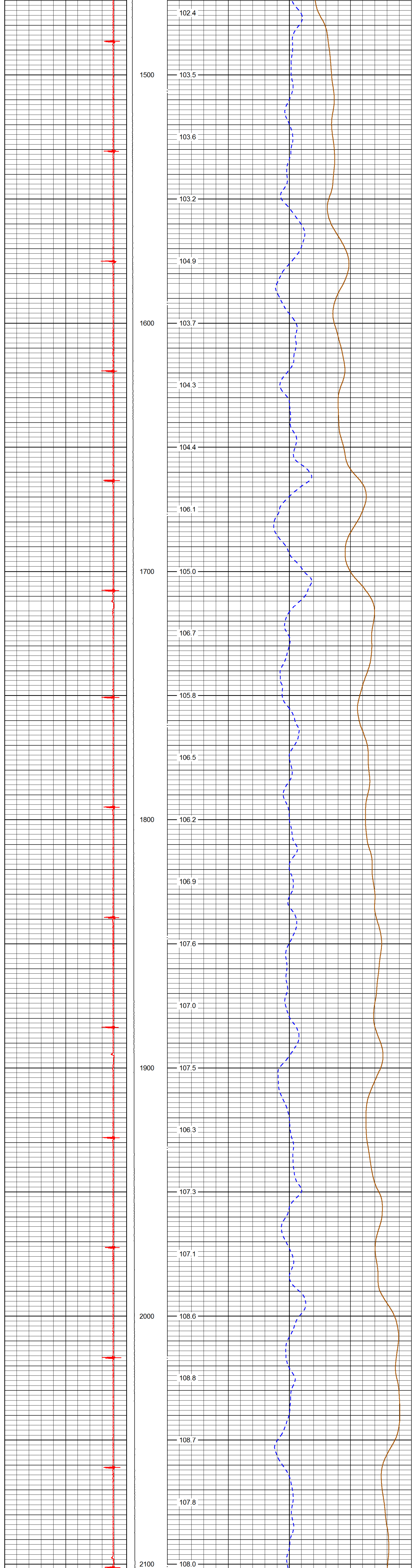
MAIN PASS

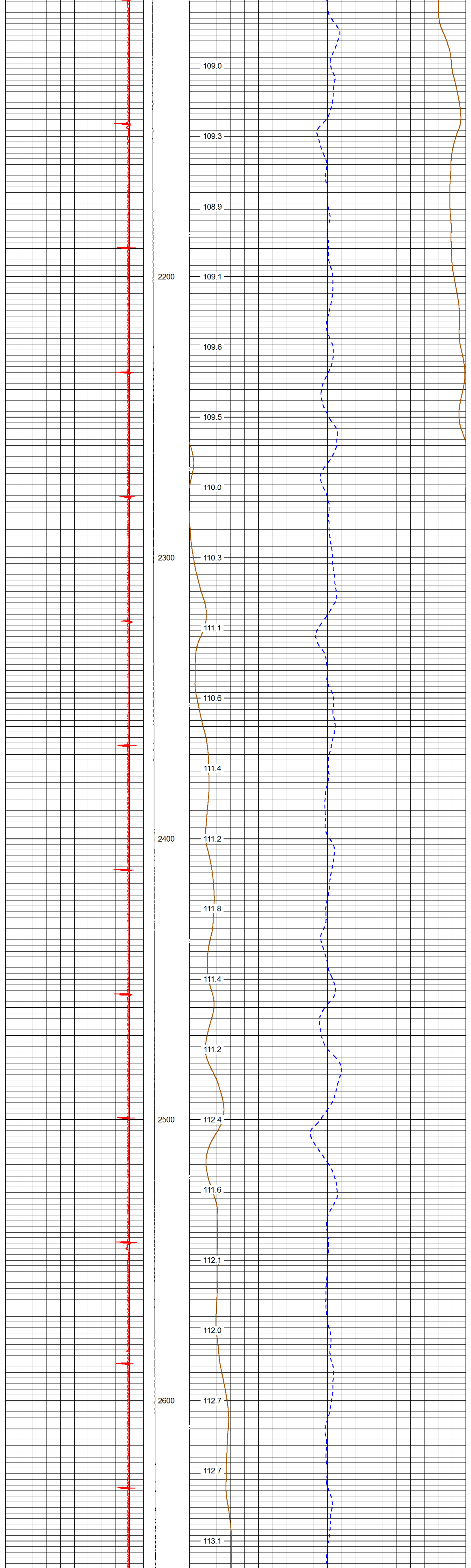
Database File: 113016_tep_ru413-7.db
Dataset Pathname: mainpass/pass1.1
Presentation Format: rmws_tem
Dataset Creation: Wed Nov 30 12:26:27 2016 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

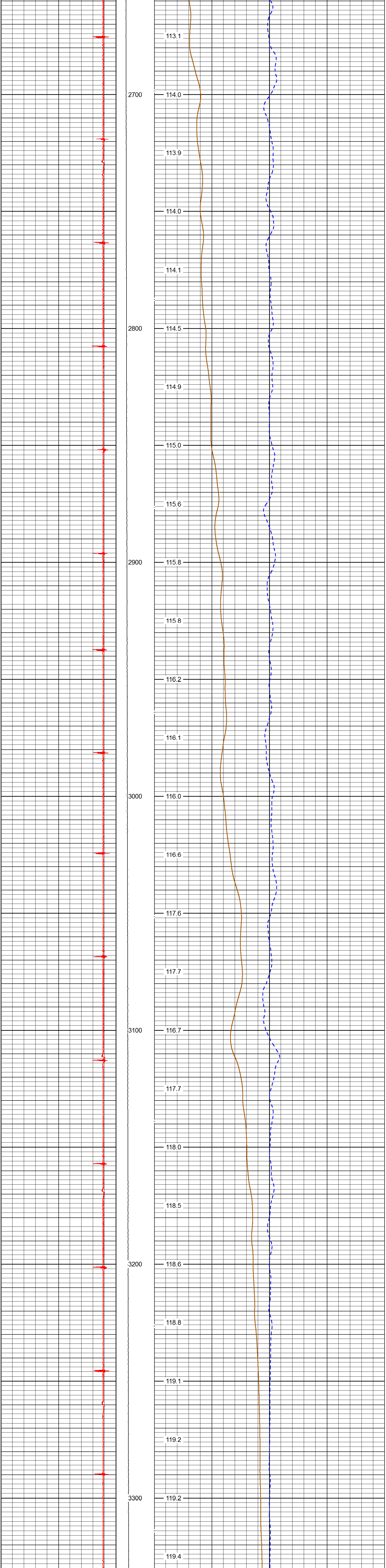


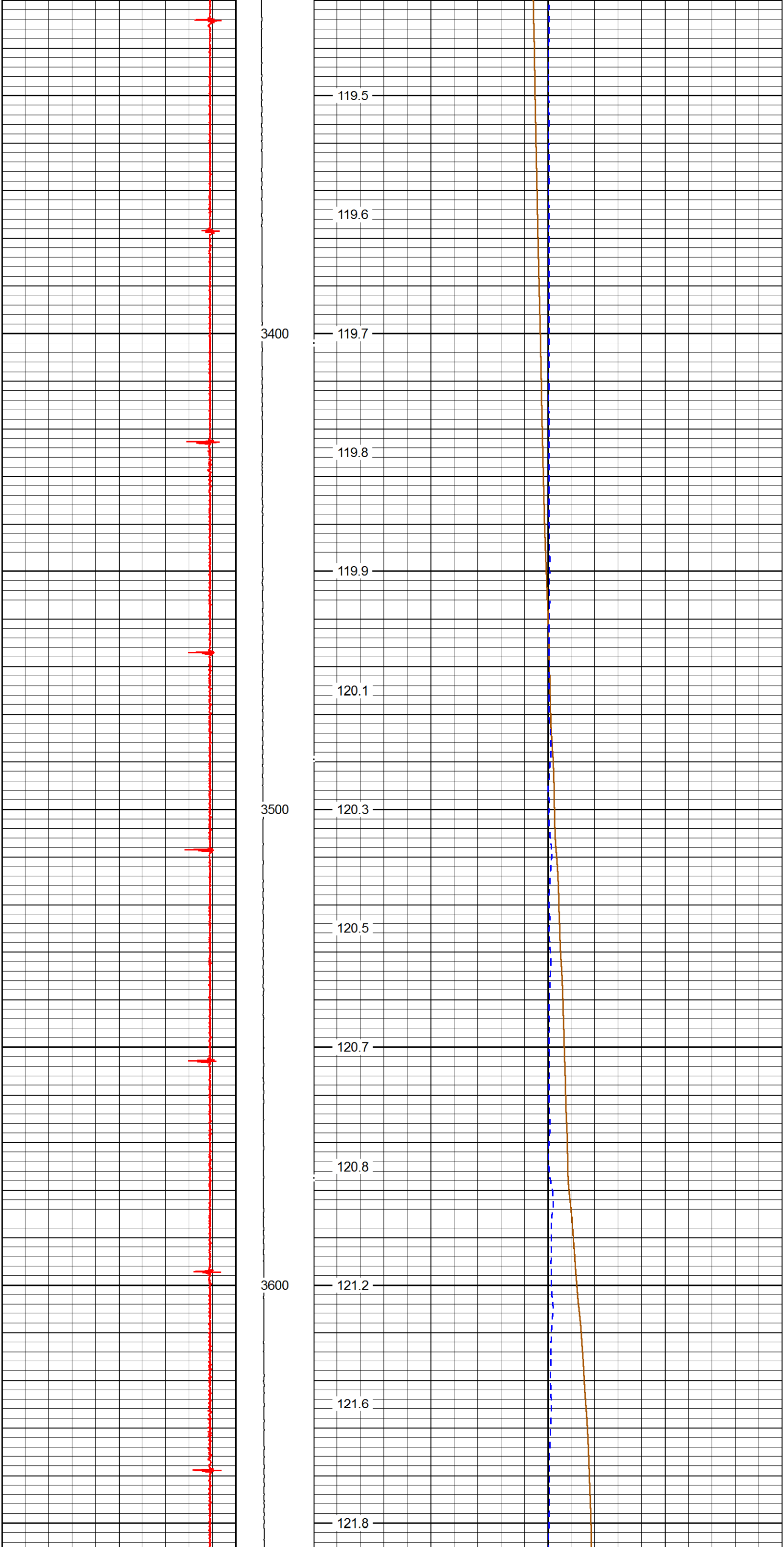


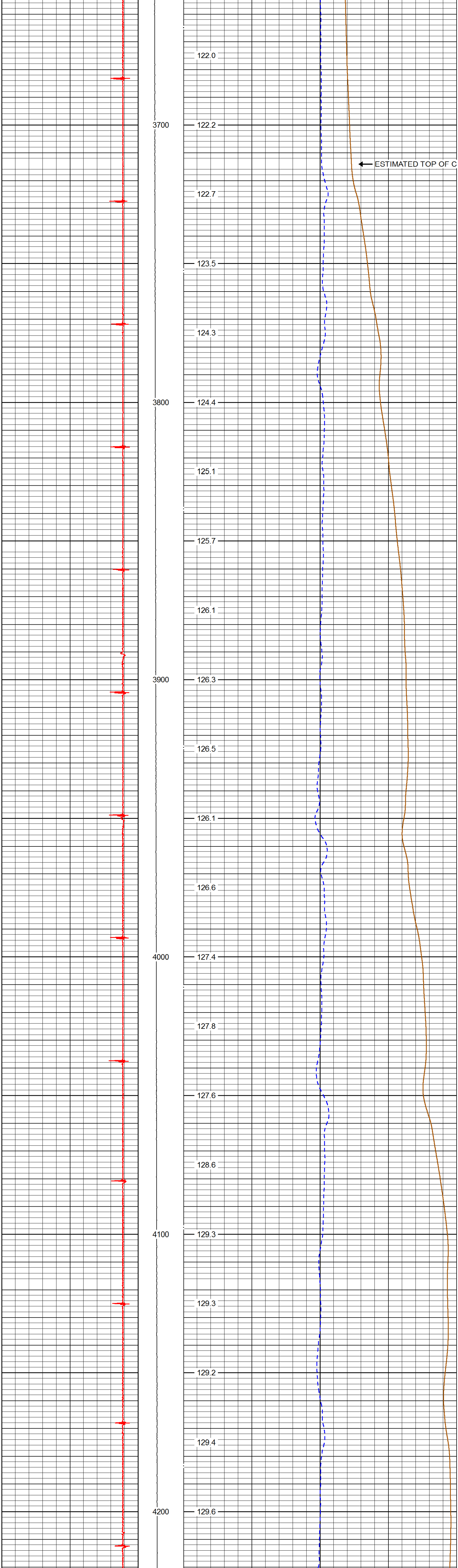








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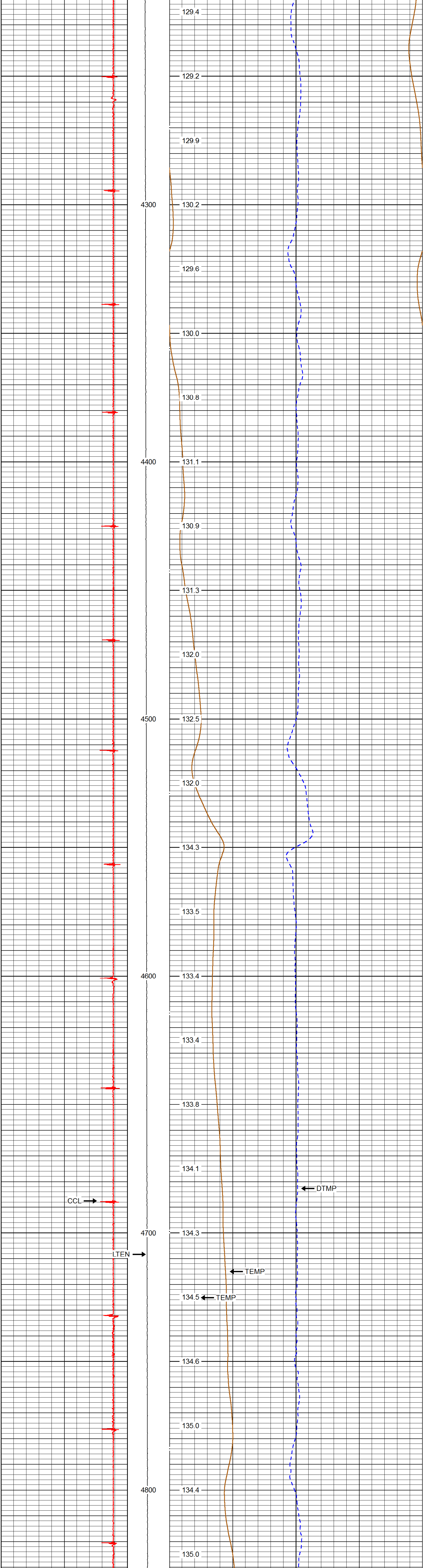
3700
122.2
ESTIMATED TOP OF C
122.7
123.5
124.3
3800
124.4
125.1
125.7
126.1
3900
126.3
126.5
126.1
126.6
4000
127.4
127.8
127.6
128.6
4100
129.3
129.3
129.2
129.4
4200
129.6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129.2
129.9
4300
130.2
129.6
130.0
130.8
4400
131.1
130.9
131.3
132.0
4500
132.5
132.0
134.3
133.5
4600
133.4
133.4
133.8
134.1
DTMP
CCL
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134.3
LTEN
TEMP
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TEMP
134.6
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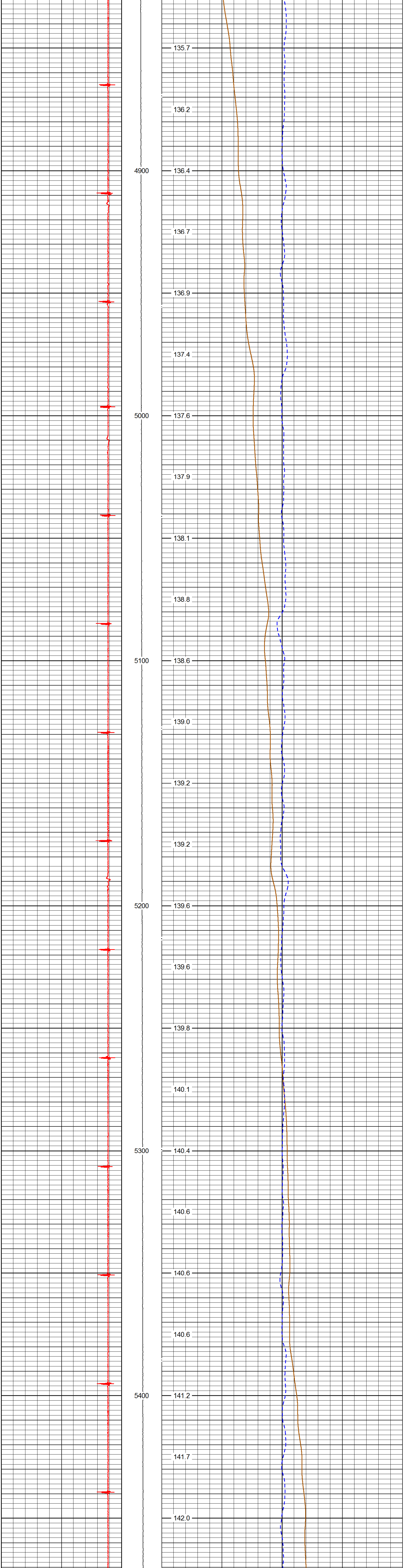
134.4
135.0


135.7
136.2
4900
136.4
136.7
136.9
137.4
5000
137.6
137.9
138.1
138.8
5100
138.6
139.0
139.2
139.2
5200
139.6
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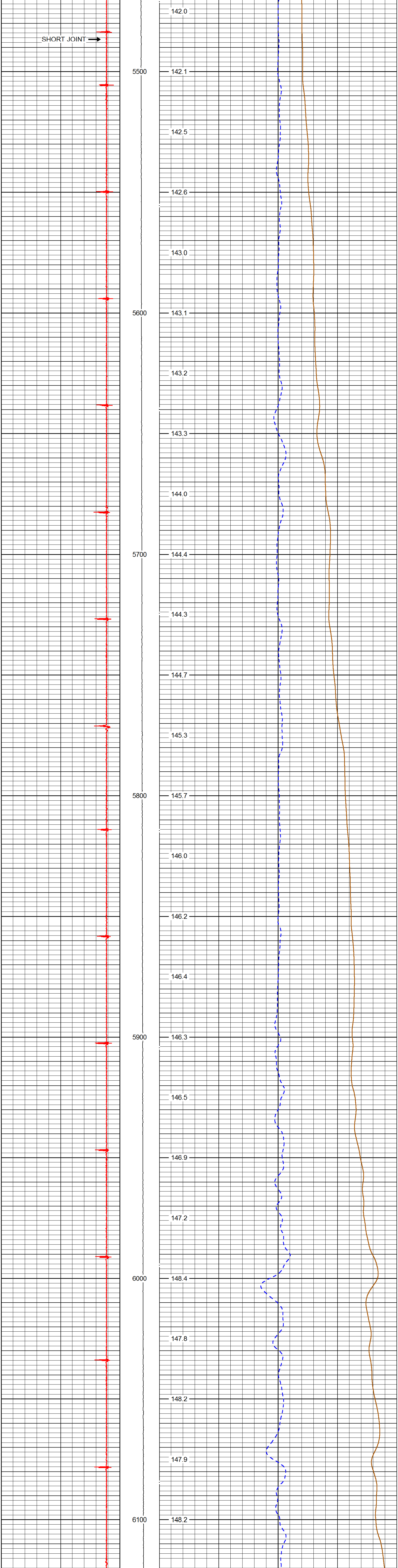
140.1
5300
140.4
140.6
140.6
140.6
5400
141.2
141.7
142.0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SHORT JOINT
5500
142.1
142.5
142.6
143.0
5600
143.1
143.2
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5700
144.4
144.3
144.7
145.3
5800
145.7
146.0
146.2
146.4
5900
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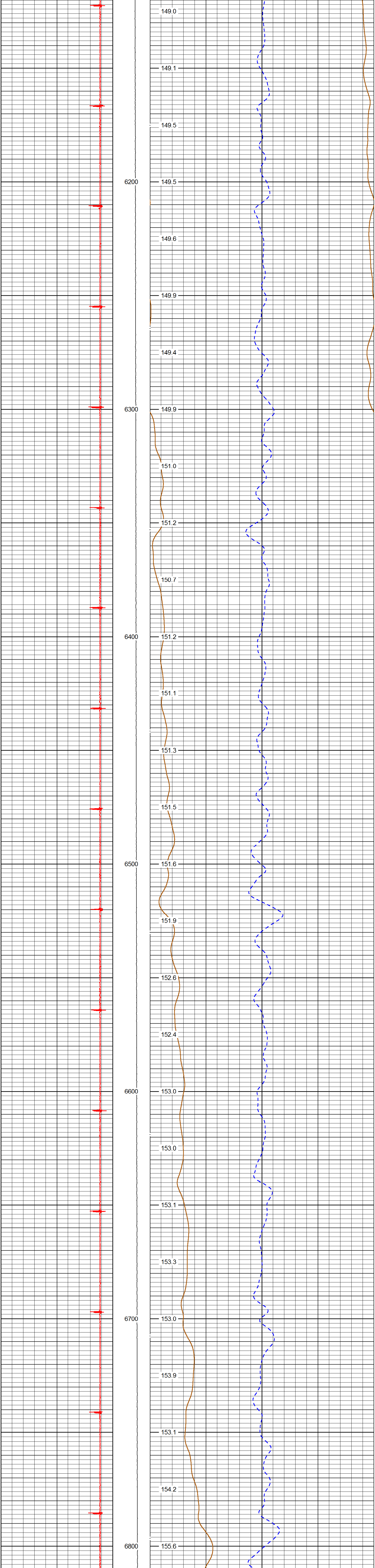
148.2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149.1
149.5
6200
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149.6
149.9
149.4
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149.9
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151.2
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6500
151.6
151.9
152.6
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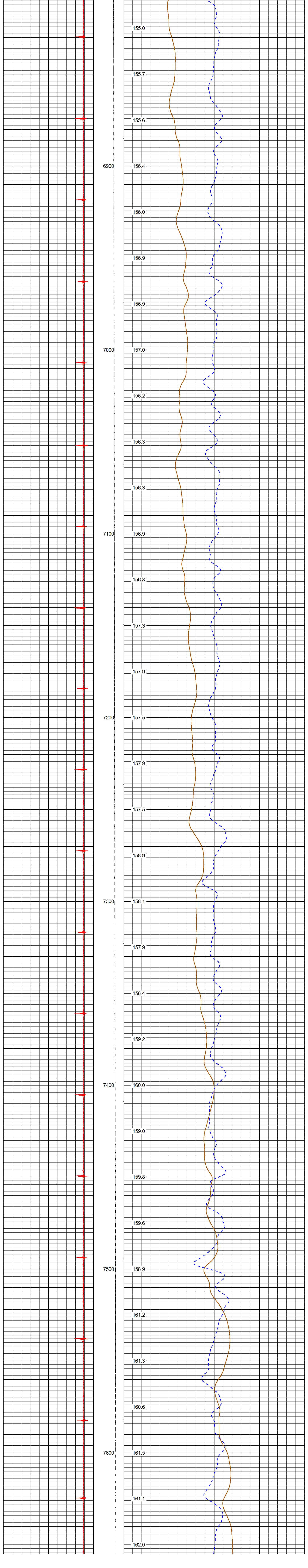
155.6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155.7
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7000
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156.8
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157.9
157.5
158.9
7300
158.1
157.9
158.4
159.2
7400
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161.5
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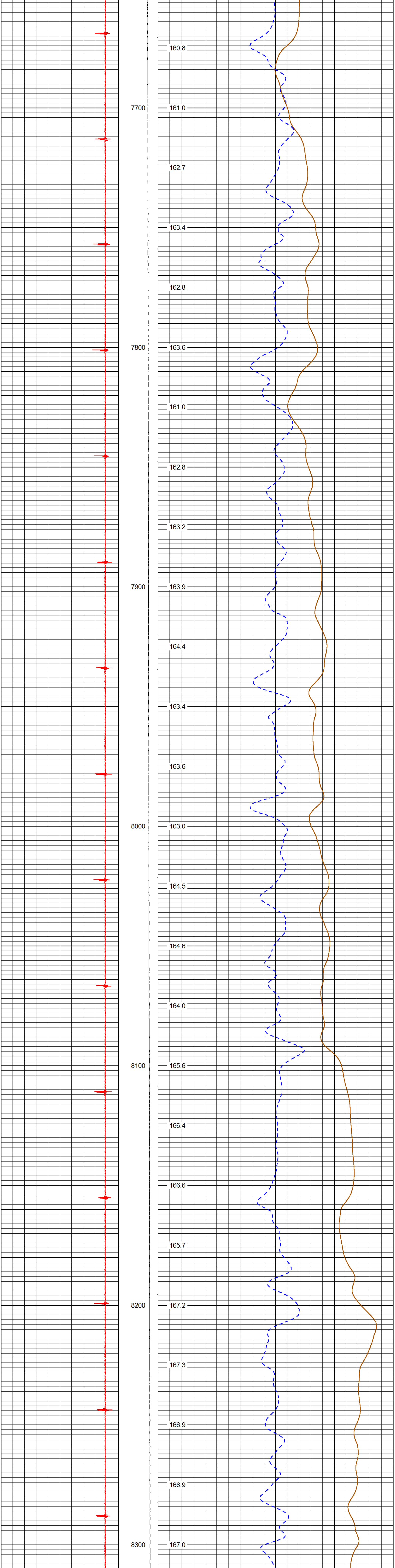
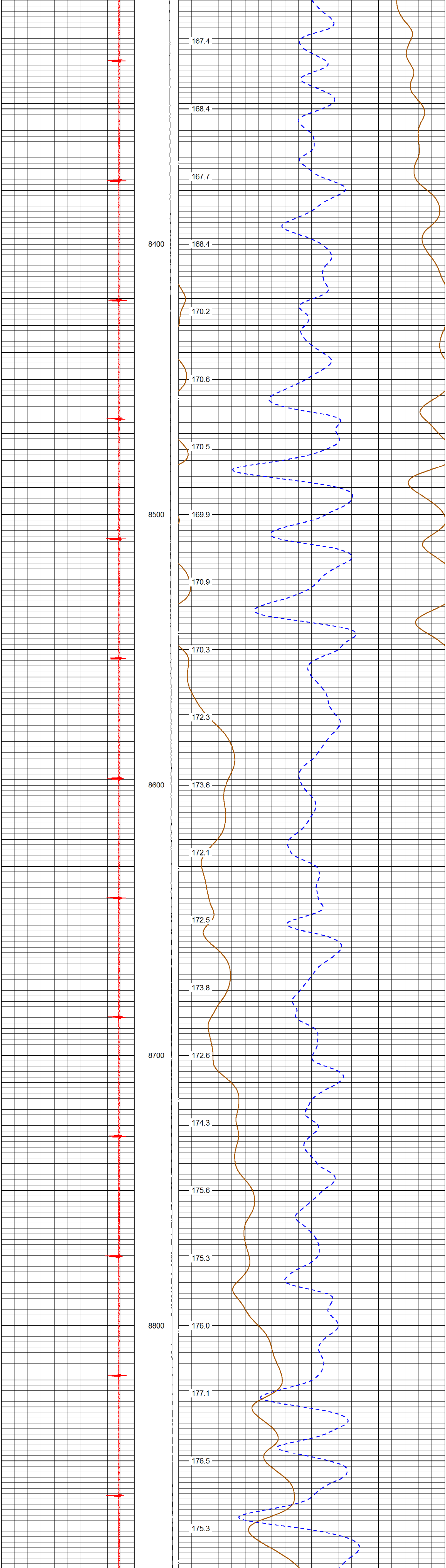
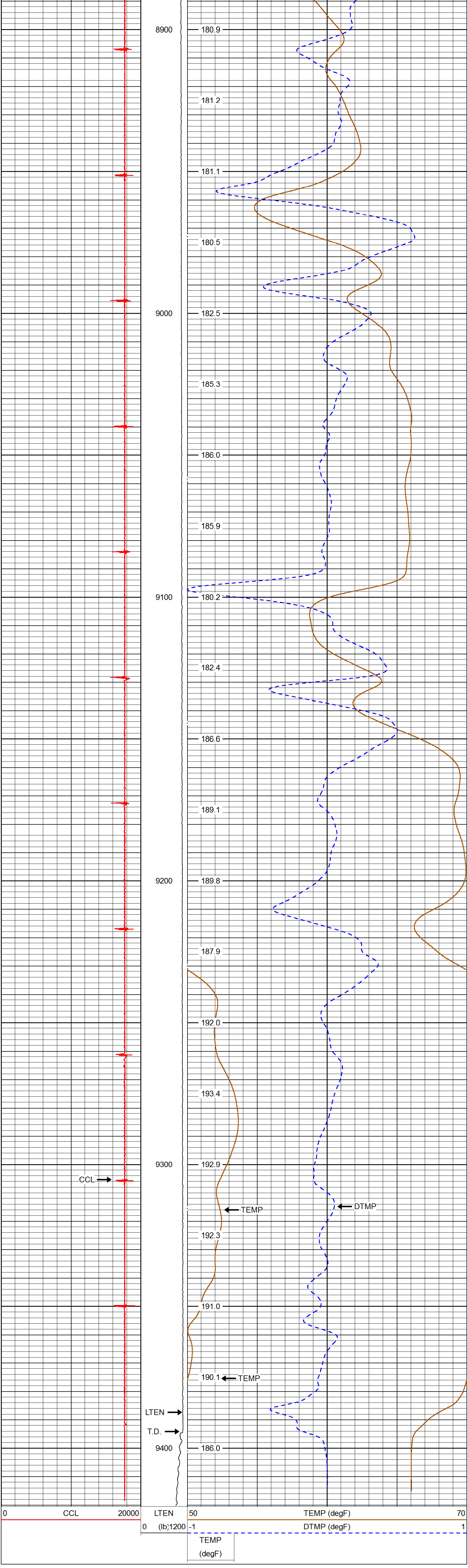
162.0



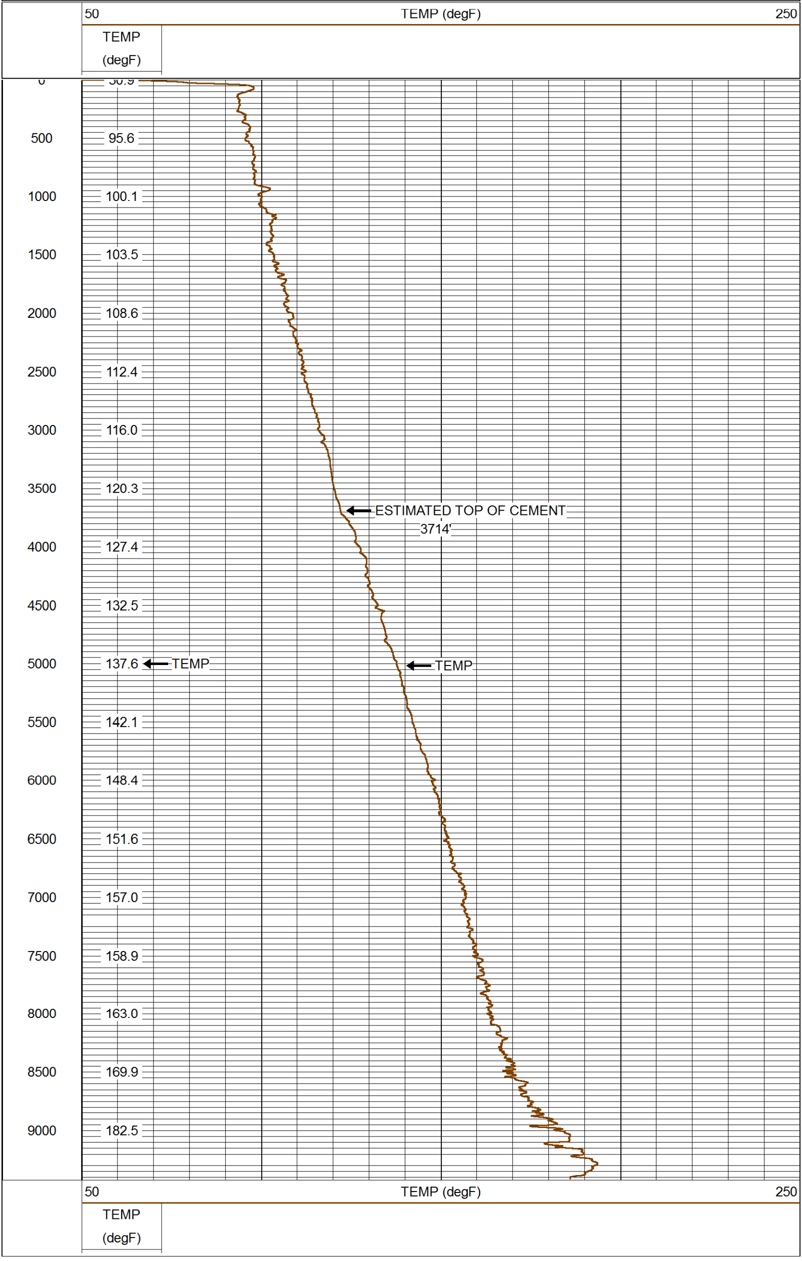


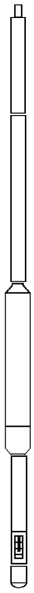


ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS (QUICK LOOK)

Database File: 113016_tep_ru413-7.db
Dataset Pathname: mainpass/pass1
Presentation Format: rmtmp_ql
Dataset Creation: Wed Nov 30 10:32:18 2016 by Log 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
CCL	1.77		CCL-028 (1037) CCL UW 3 1/8" SONDEX	1.61	3.13	36.00
TEMP TSTAMP ITEMPX HVOLTX	0.37 0.00 0.00 0.00		PRT-016 (10006811) Platinum Resistance Thermometer	1.04	1.69	6.00
			BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset:	113016_tep_ru413-7.db: field/well/mainpass/pass1.1
Total Length:	5.50 ft
Total Weight:	51.70 lb
O.D.	3.13 in

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

Company	TEP ROCKY MOUNTAIN LLC
Well	RU 413-7
Field	RULISON
County	GARFIELD
State	COLORADO