ROCKY MOUNTAIN WIRELINE SERVICE

TEMPERATURE CCL LOG

Company	TEP ROCKY MOUNTAIN LLC		
Well	RU 311-7		
Field	RULISON		
County	GARFIELD	State	COLORADO
Location:	API # : 05-045-23235-00 QtrQtr; SENW LAT. 39.4570246 LOG. -107.8196981		Other Services
	SEC 7 TWP 7S RGE 93W		
Permanent Datum	G.L.	Elevation 7339'	Elevation K.B. 7363' D.F. G.L. 7339'
Log Measured From	K.B.	Ft Above PD 24.0'	
Drilling Measured From	K.B.		

Date	10-16-2016		
Run Number	ONE		
Depth Driller	9798'		
Present Depth Driller	9759'		
Depth Logger	9766'		
Bottom Logged Interval	9766'		
Top Log Interval	SURFACE		
Fluid Level	FULL		
Type Fluid	WATER		
Max. Recorded Temp.	178.7 ° F		
Estimated Cement Top	3570'		
Equipment Number	216		
Location	GRAND JCT.		
Recorded By	MCBROOM		
Witnessed By	MR. ABBEY	MR. RAGSDALE	

Borehole Record				Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				4.50"	11.6#	SURFACE	9788'

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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 6126' TO 6148'.

Calibration Report

Database File: 10162016_tep_ru 311-7.db
Dataset Pathname: mainpass/pass1.1
Dataset Creation: Sun Oct 16 21:04:16 2016 by Calc SCH 120430

Temperature Calibration Report

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

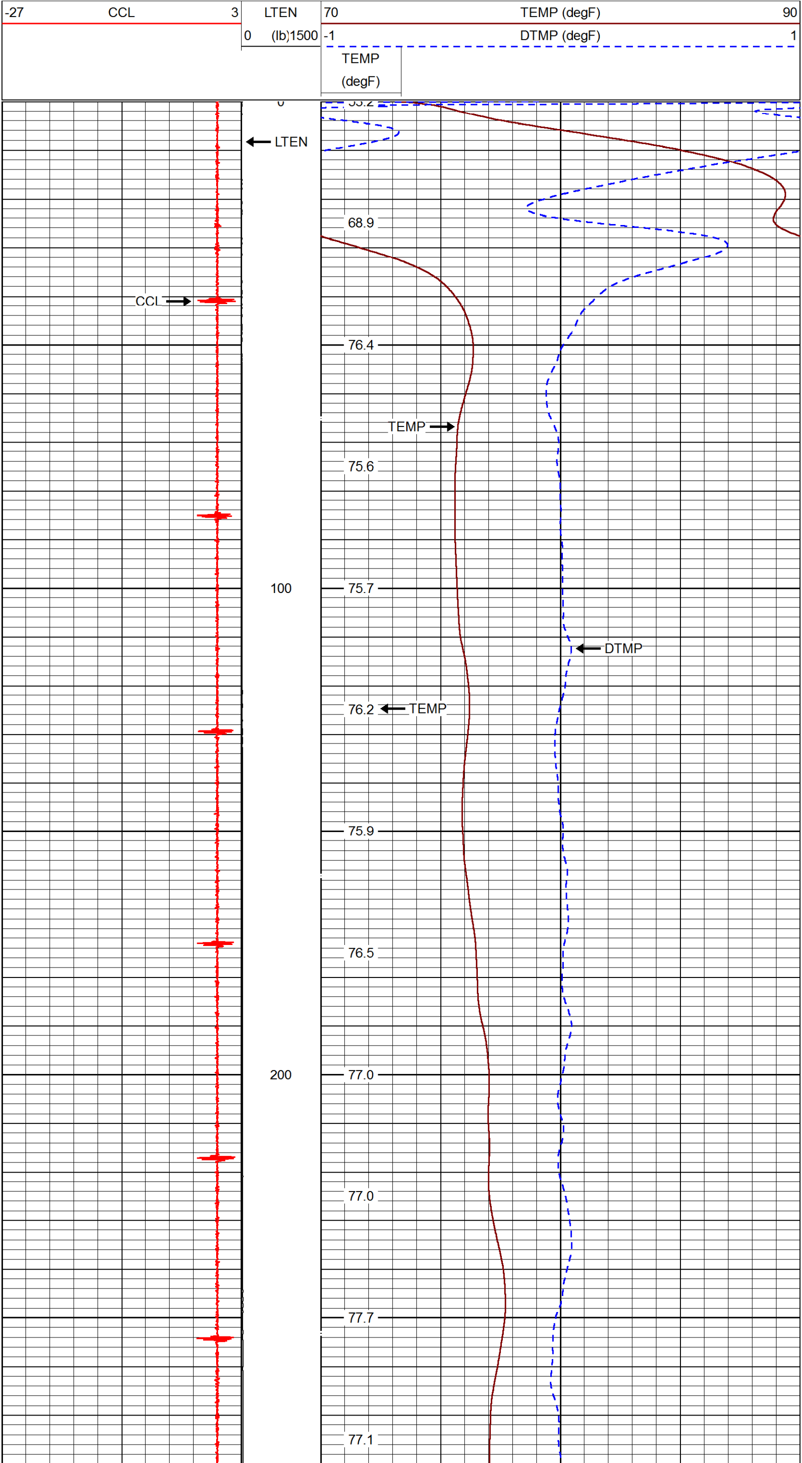
	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	1.00	cps

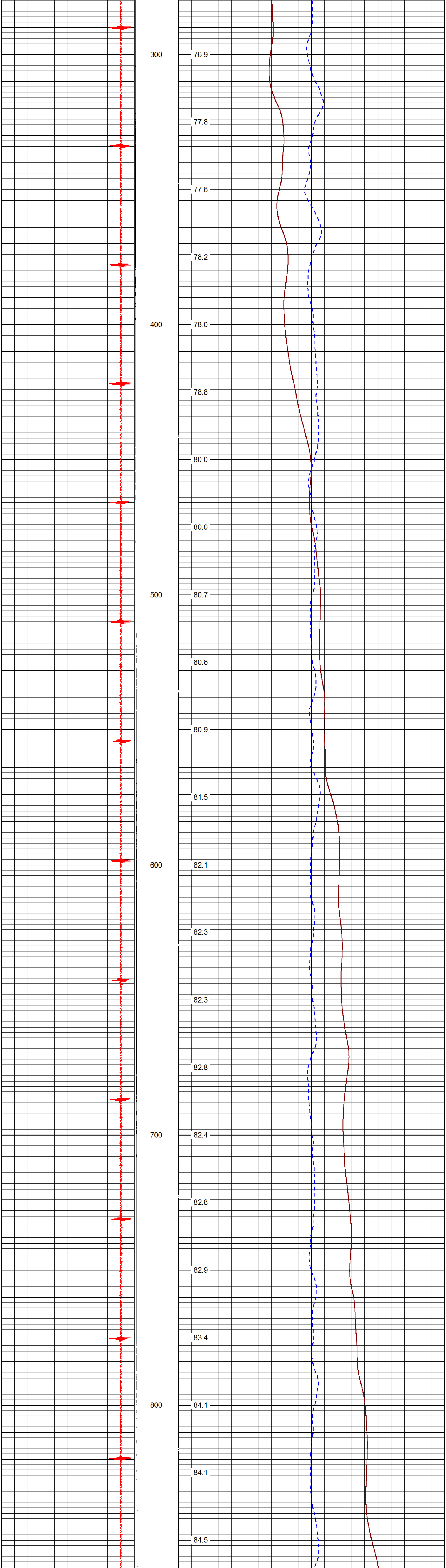
Gain: 0.10
Offset: 0.00
Delta Spacing 2

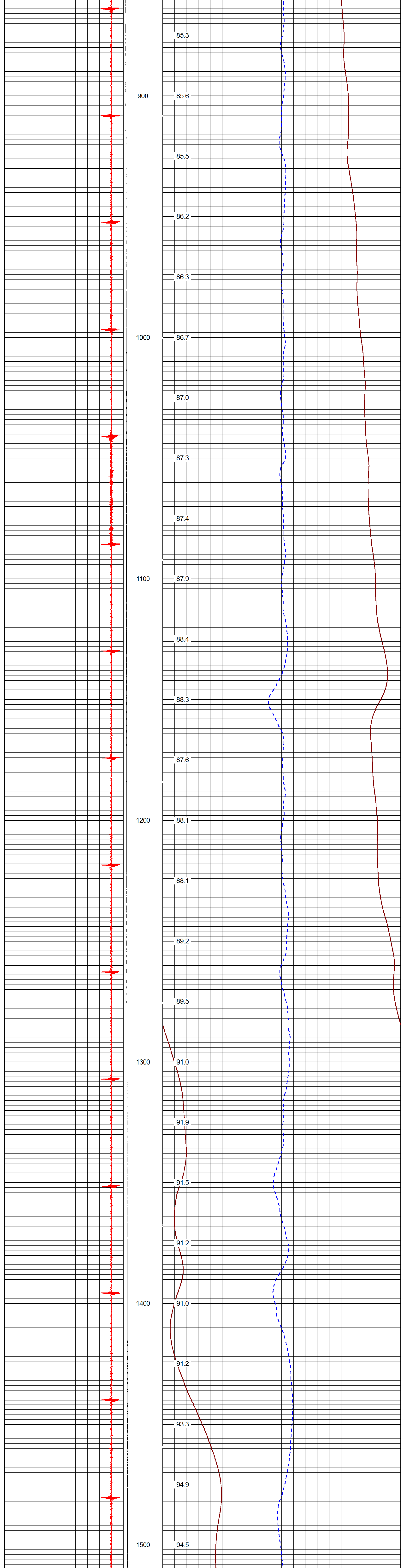
ROCKY MOUNTAIN WIRELINE SERVICE

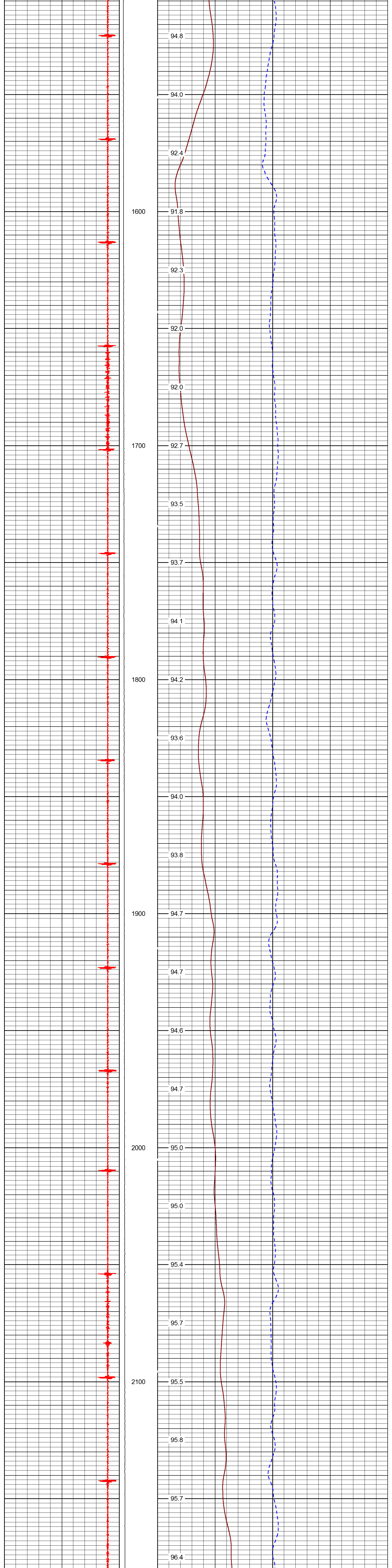
MAIN PASS

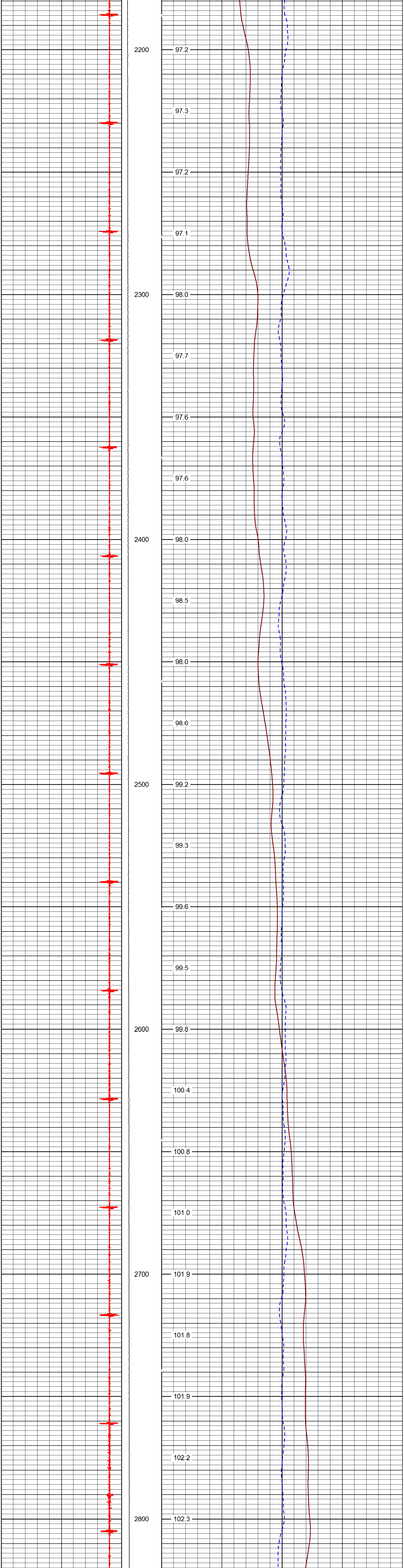
Database File: 10162016_tep_ru 311-7.db
Dataset Pathname: mainpass/pass1
Presentation Format: rmws_temp
Dataset Creation: Sun Oct 16 19:14:56 2016 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

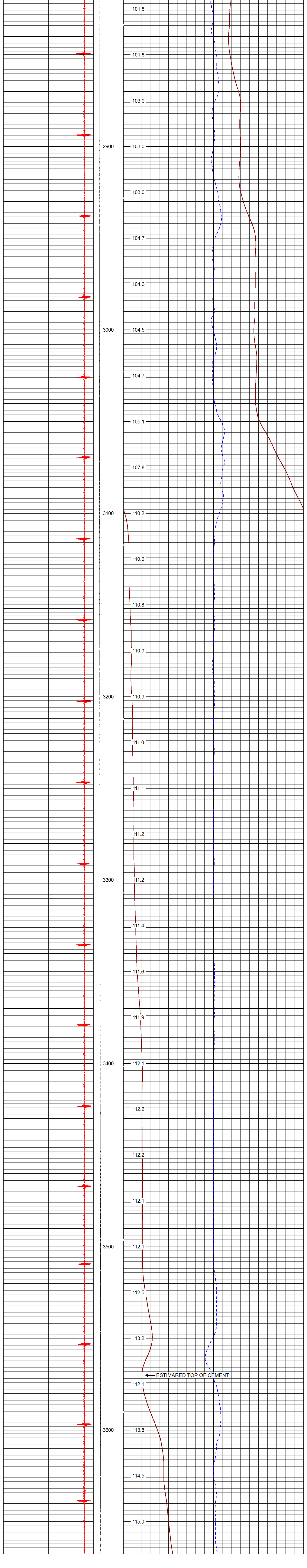


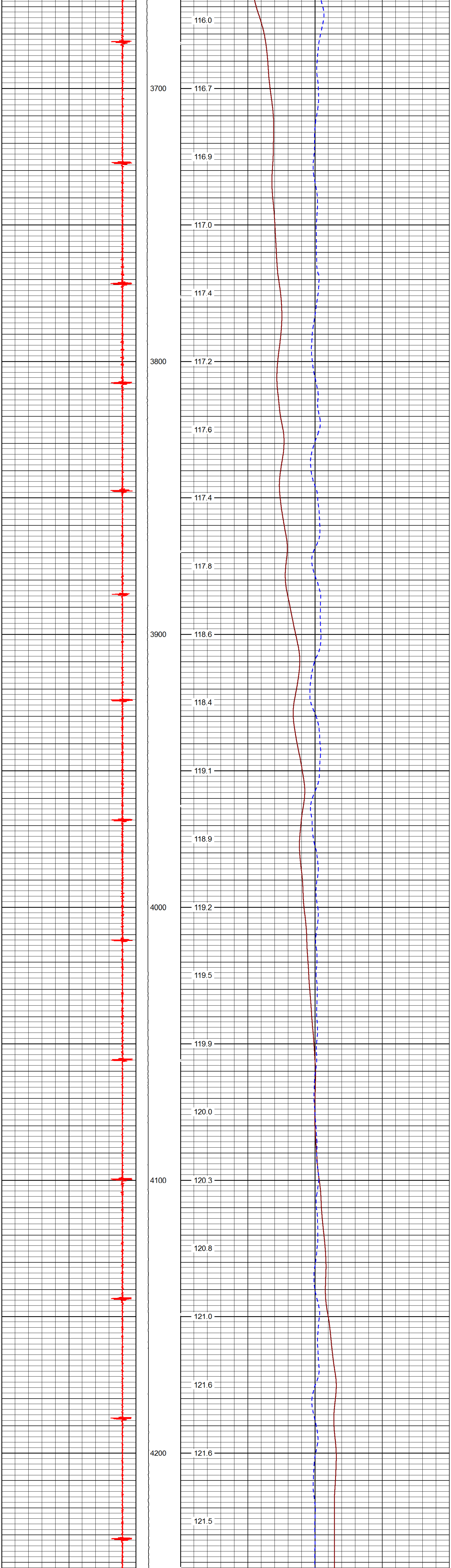








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116.9
117.0
117.4
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117.2
117.6
117.4
117.8
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118.6
118.4
119.1
118.9
4000
119.2
119.5
119.9
120.0
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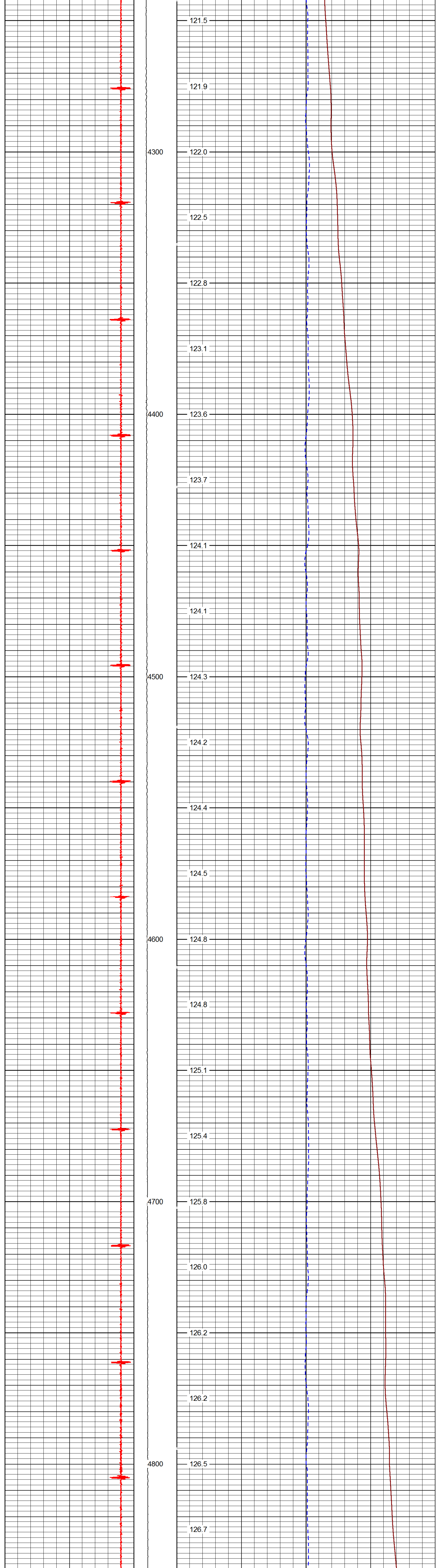
120.3
120.8
121.0
121.6
4200
121.6
121.5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124.2
124.4
124.5
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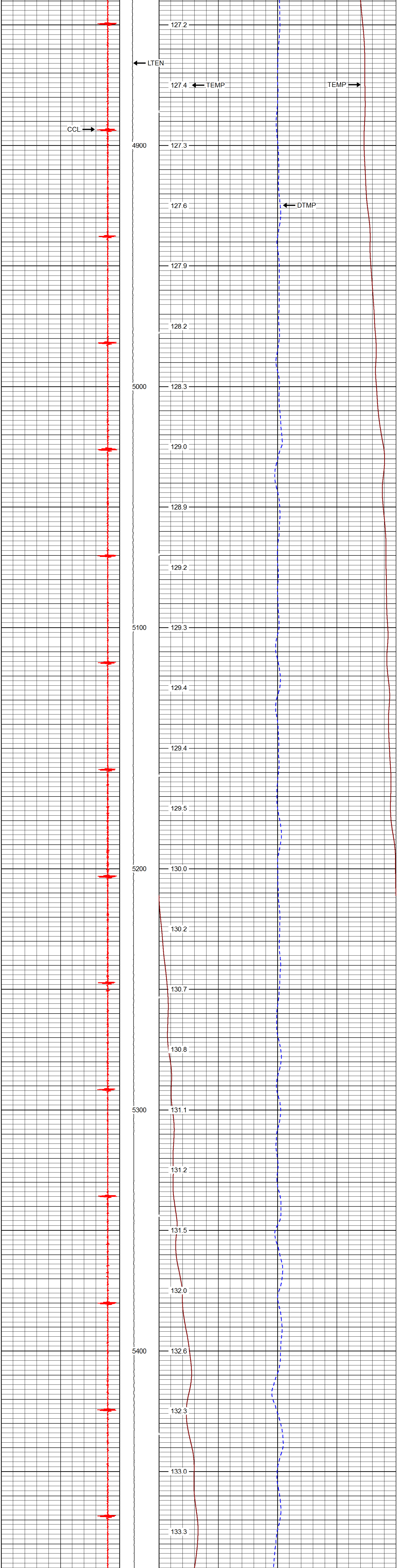
126.5
126.7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TEMP
TEMP
CCL
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127.9
128.2
128.3
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129.4
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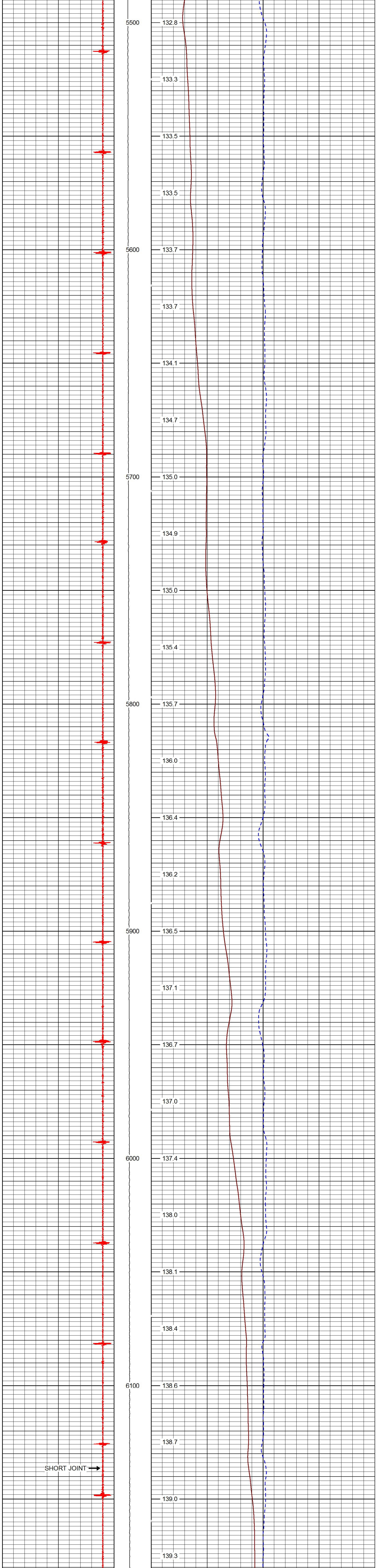
133.3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135.4
5800
135.7
136.0
136.4
136.2
5900
136.5
137.1
136.7
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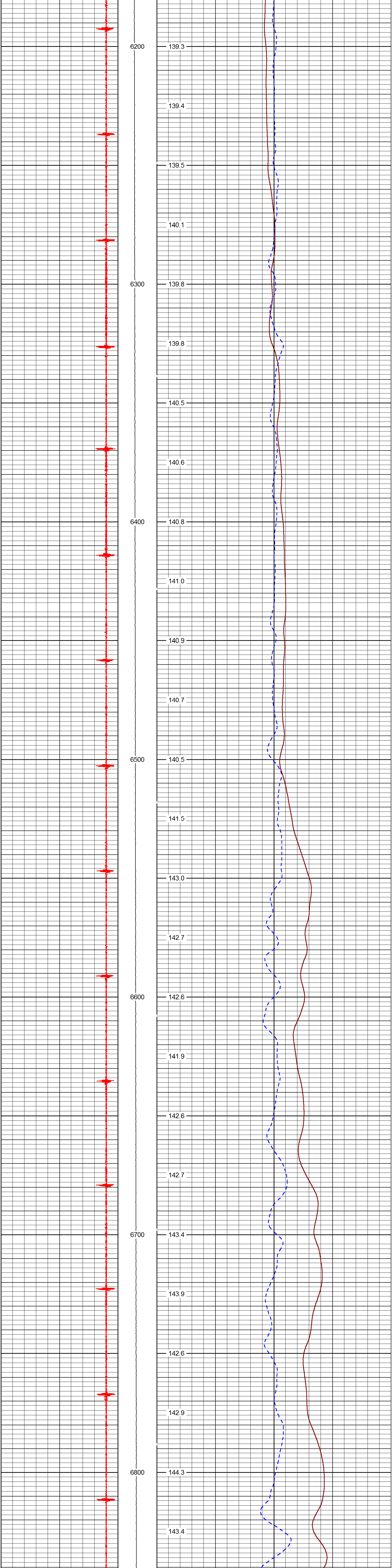
138.6
138.7
SHORT JOINT
139.0
139.3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6500
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143.0
142.7
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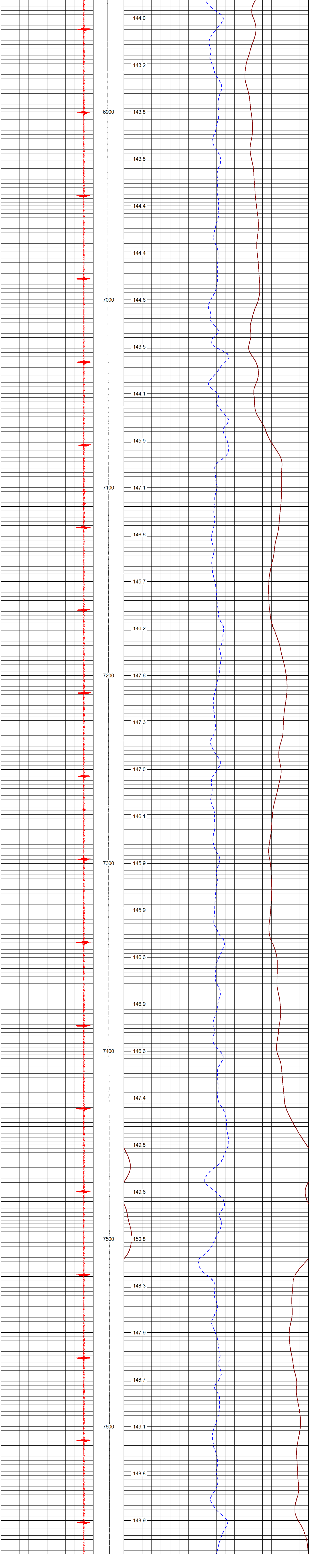
143.4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144.1
145.9
7100
147.1
146.6
145.7
146.2
7200
147.6
147.3
147.0
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7300
145.9
145.9
146.6
146.9
7400
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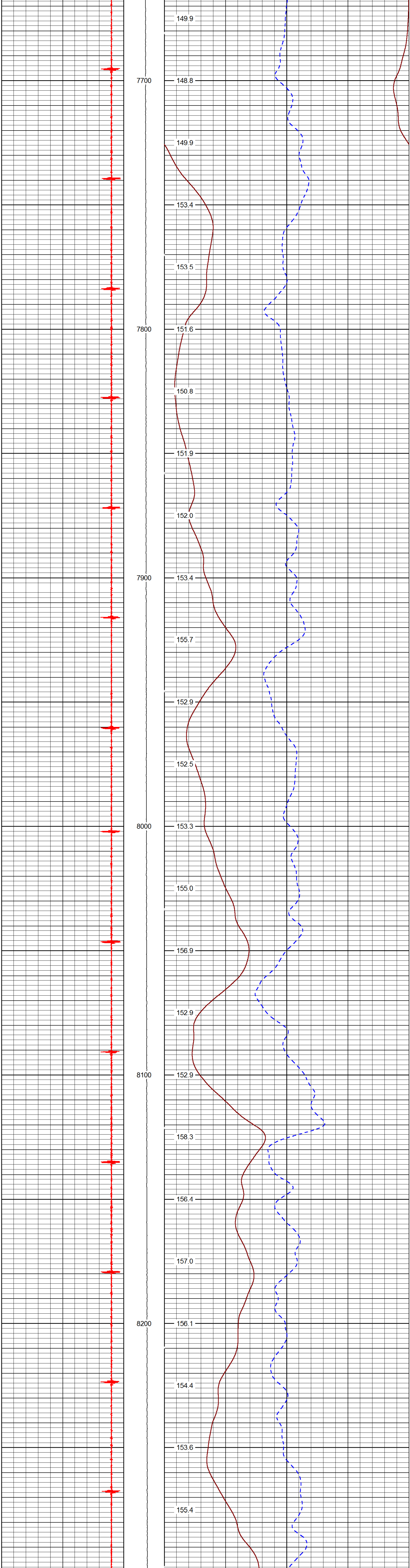
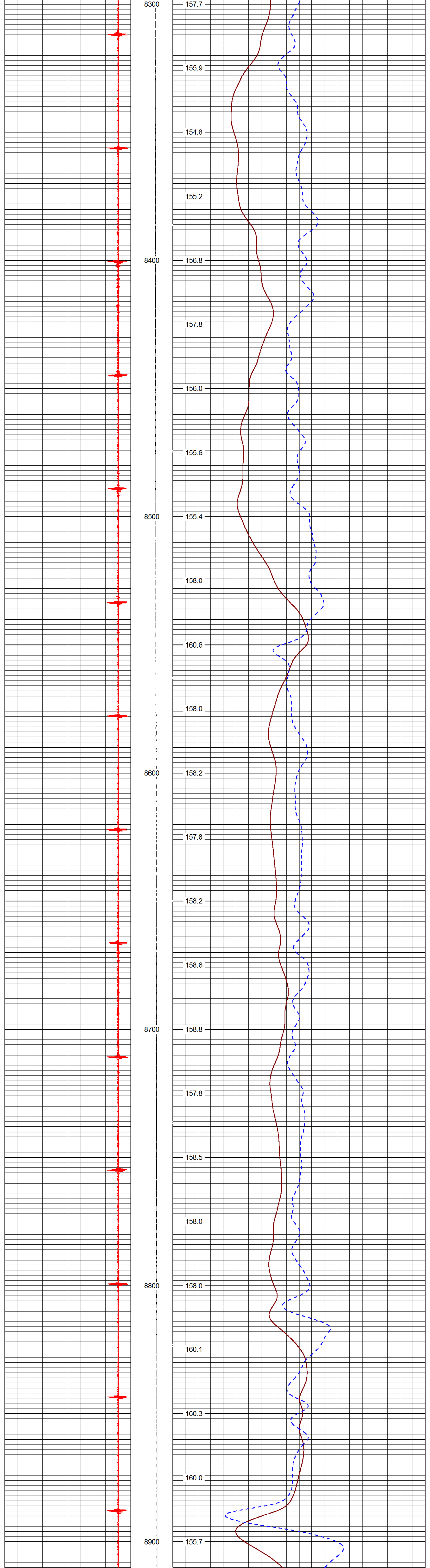
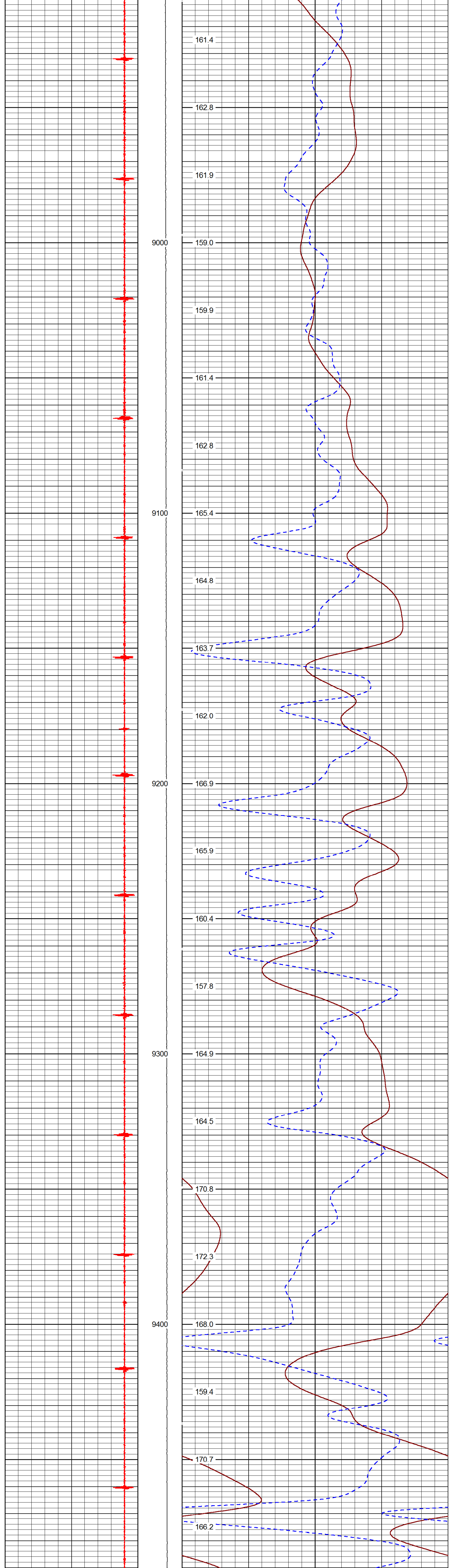
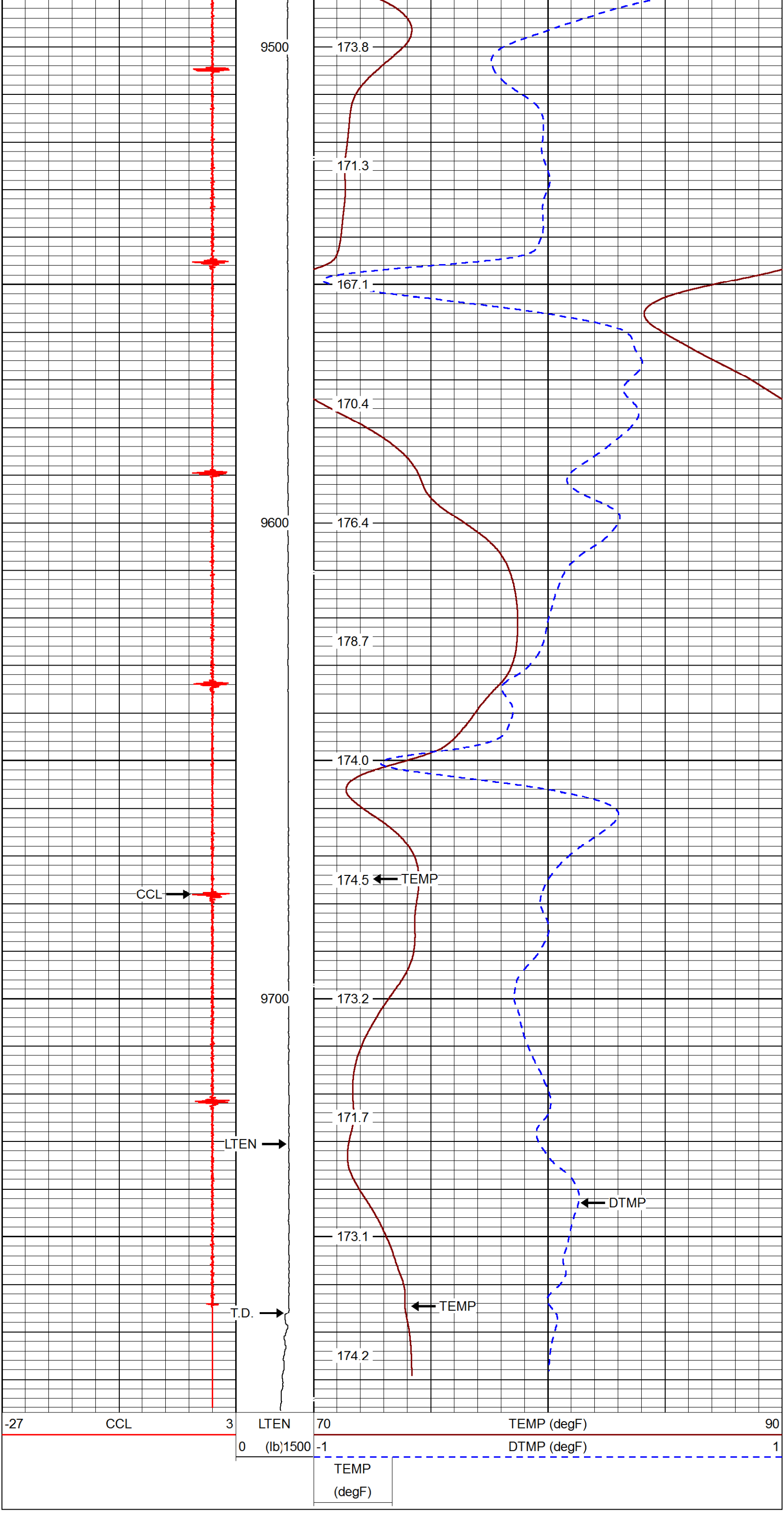
149.1
148.8
148.9





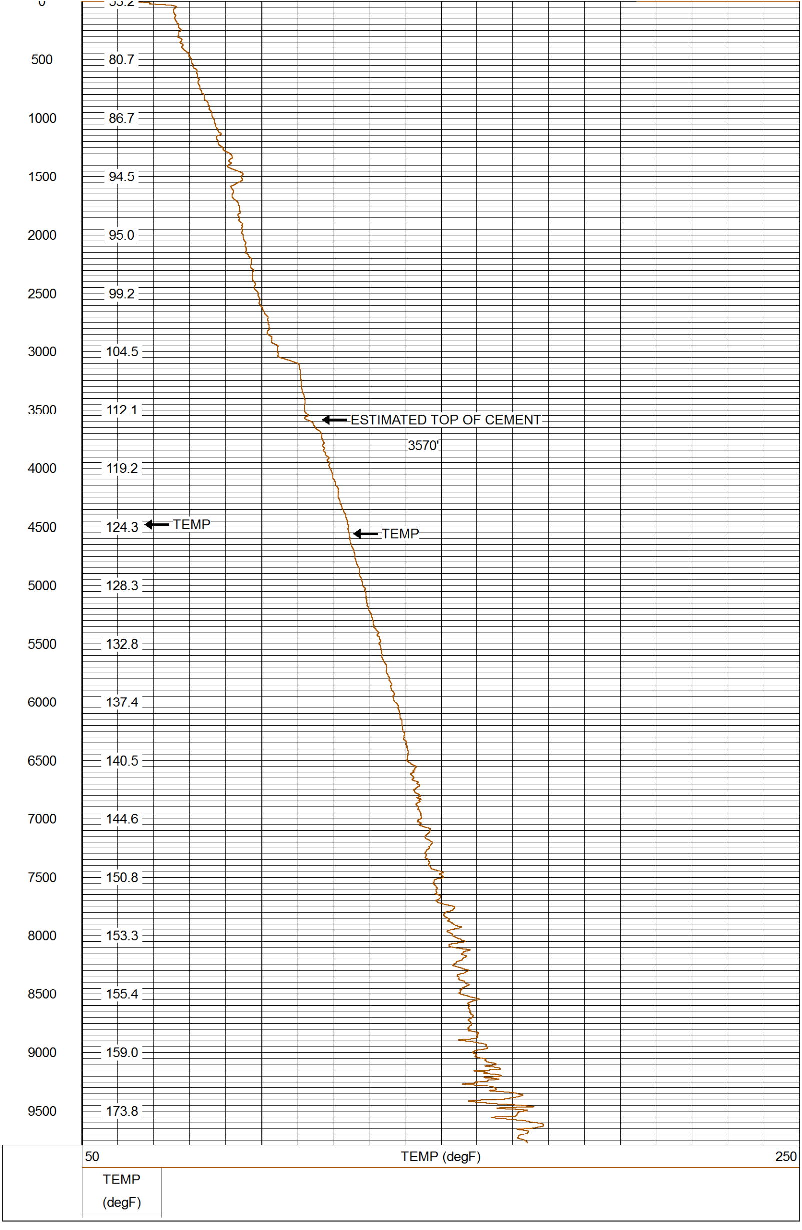


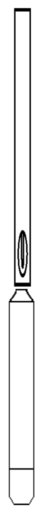


MAIN PASS (QUICK LOOK)

ROCKY MOUNTAIN WIRELINE SERVICE

Database File: 10162016_tep_ru 311-7.db
Dataset Pathname: mainpass/pass1.1
Presentation Format: rmtemp_q
Dataset Creation: Sun Oct 16 21:04:16 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	0.79		CCL-3.125_APPLIED (40-01NB) positive or negative voltage logging ccl	2.03	3.13	45.00

Dataset: 10162016_tep_ru 311-7.db: field/well/mainpass/pass1.1
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 311-7
Field	RULISON
County	GARFIELD
State	COLORADO