**RMWS ROCKY MOUNTAIN WIRELINE SERVICE**

# TEMPERATURE CCL LOG

| | | | |
|---|---|---|---|
| Company | WPX ENERGY | | |
| Well | RU 33 - 7 | | |
| Field | RULISON | | |
| County | GARFIELD | State | COLORADO |
| Location: | API # : 05 - 045 - 22514 - 00 | Other Services | N/A |
| SEC 7 TWP 7S RGE 93W | | Elevation | |
| Permanent Datum | GL | Elevation 7917' | K.B. 7943' |
| Log Measured From | KB | Ft Above PD 26' | D.F. 7942' |
| Drilling Measured From | KB | | G.L. 7917' |

| | |
|---|---|
| Date | 02 - 27 - 2015 |
| Run Number | ONE |
| Depth Driller | 10152' |
| Present Depth Driller | N/A |
| Depth Logger | 10054' |
| Bottom Logged Interval | 10054' |
| Top Log Interval | SURFACE |
| Fluid Level | FULL' |
| Type Fluid | WATER |
| Max. Recorded Temp. | 224.5 Deg F |
| Estimated Cement Top | 3993' |
| Equipment Number | 219 |
| Location | GRAND JCT. |
| Recorded By | INGRAM |
| Witnessed By | MR. OAKS |

| Borehole Record | | | | Casing Record | | | |
|---|---|---|---|---|---|---|---|
| Run Number | Bit | From | To | Size | Weight | From | To |
| ONE | | | | 9.625" | 36.0# | SURFACE | 1350' |
| TWO | | | | 4.500" | 11.6# | SURFACE | 10152' |

<<< 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 TO CORRELATE WITH**

**SHORT JOINT: 6508' TO 6531'**

**TEMP - 224.5 DEG F**
**ESTIMATED CEMENT TOP - 3993'**

**CASING PSI = STATIC**
**MAIN PASS 5" = 100'**

Calibration Report

Database File: F:\WPX ENERGY\RU 333-7\022715_wpx_ru_333_7.db
Dataset Pathname: main/pass1
Dataset Creation: Fri Feb 27 11:55:45 2015 by Log SCH 120430

Temperature Calibration Report

Serial Number: 16-53
Tool Model: APPLIED
Performed: Tue Jan 31 09:43:33 2012

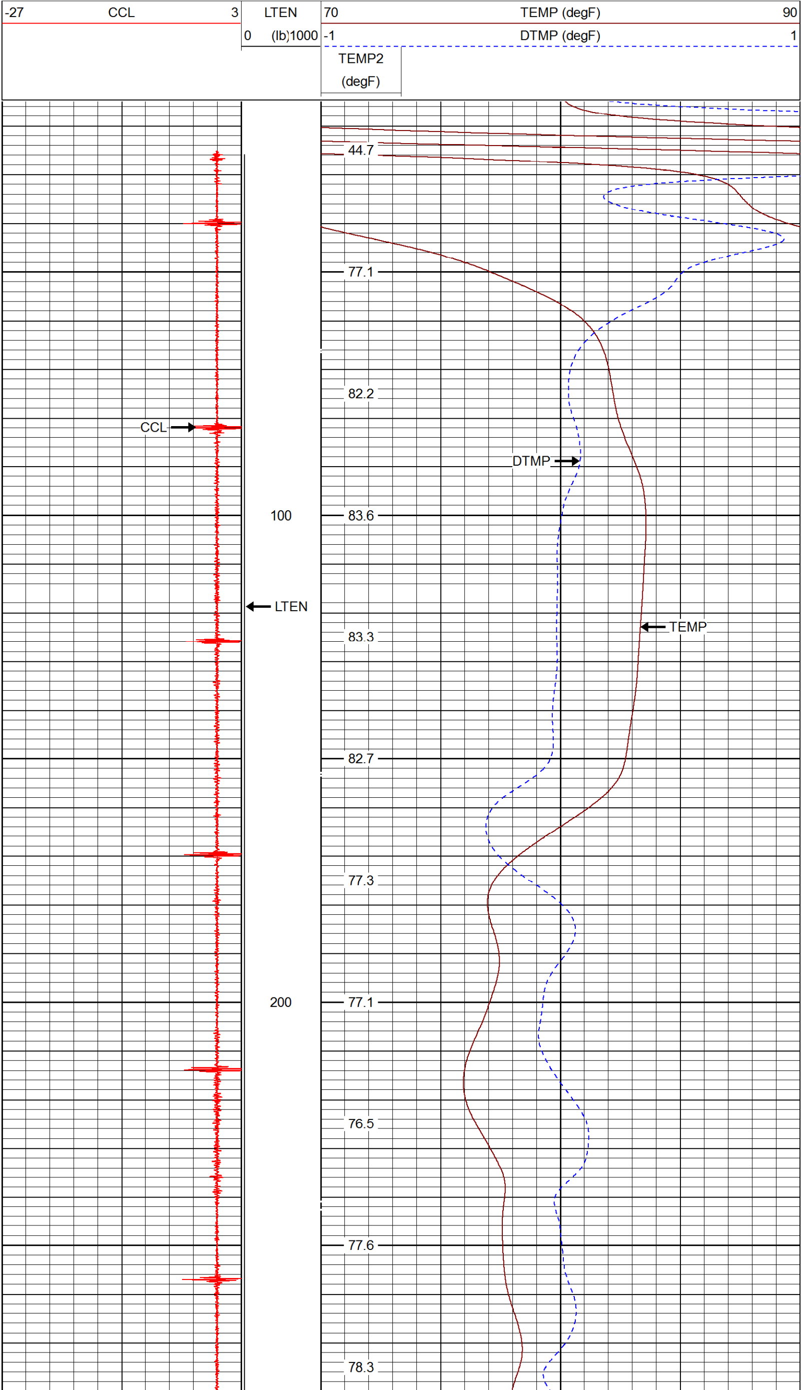
| | Reference | | Reading | |
|---|---|---|---|---|
| Low Reference: | 0.00 | degF | 0.00 | cps |
| High Reference: | 1.00 | degF | 1.00 | cps |

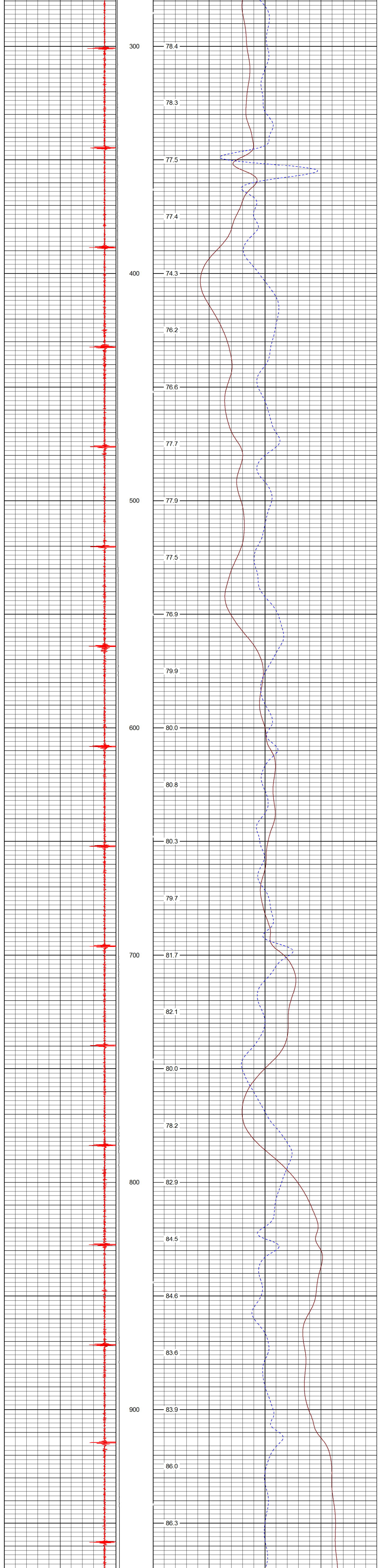
Gain: 0.10
Offset: 0.00
Delta Spacing 2

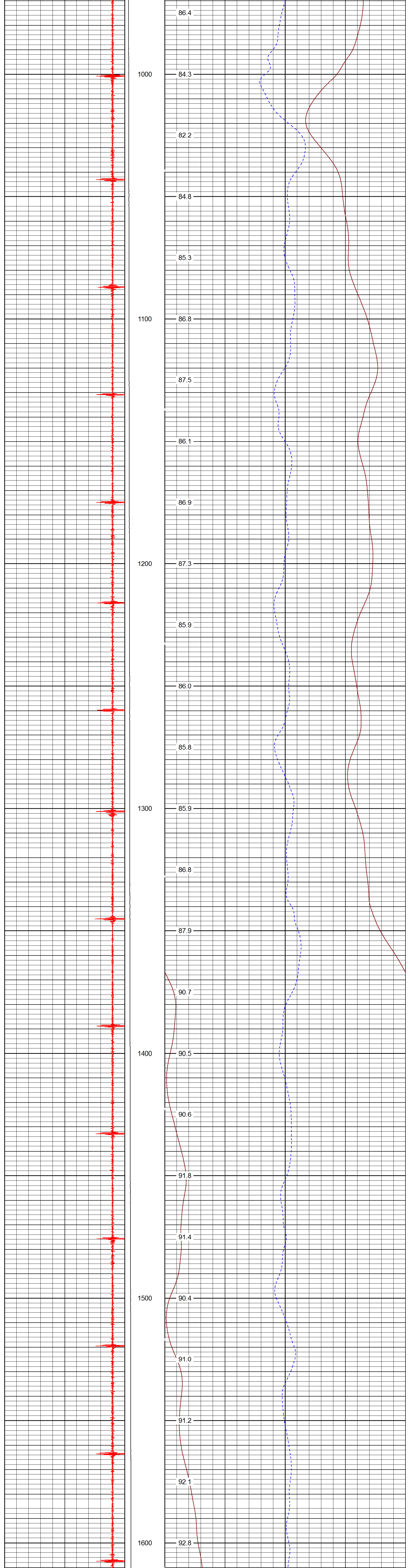
**RMWS ROCKY MOUNTAIN WIRELINE SERVICE**

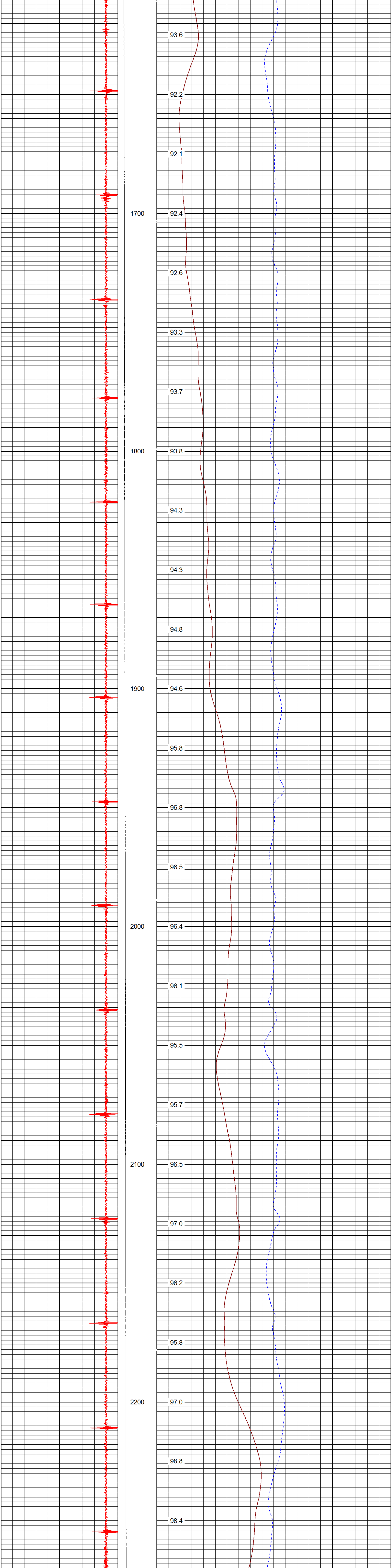
# MAIN PASS

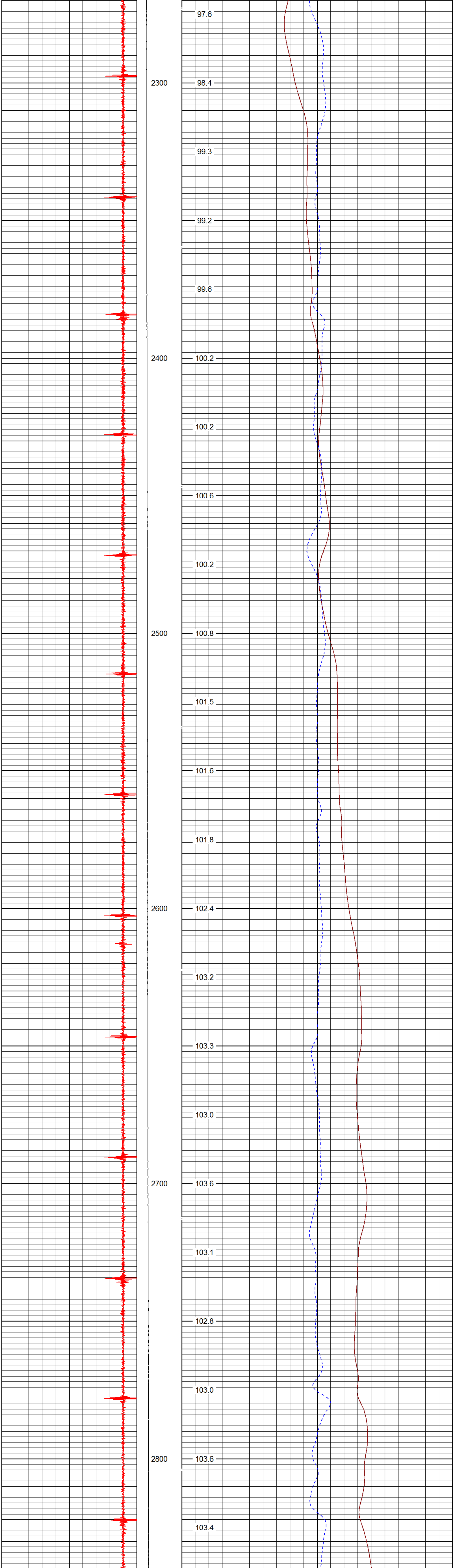
Database File: f:\wpx energy\ru 333-7\022715_wpx_ru_333_7.db
Dataset Pathname: main/pass1
Presentation Format: rmws_temp
Dataset Creation: Fri Feb 27 11:55:45 2015 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

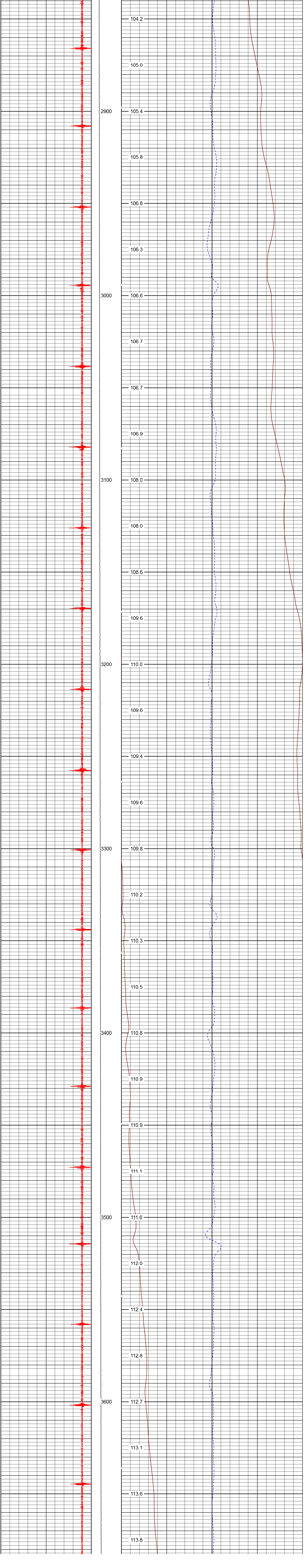


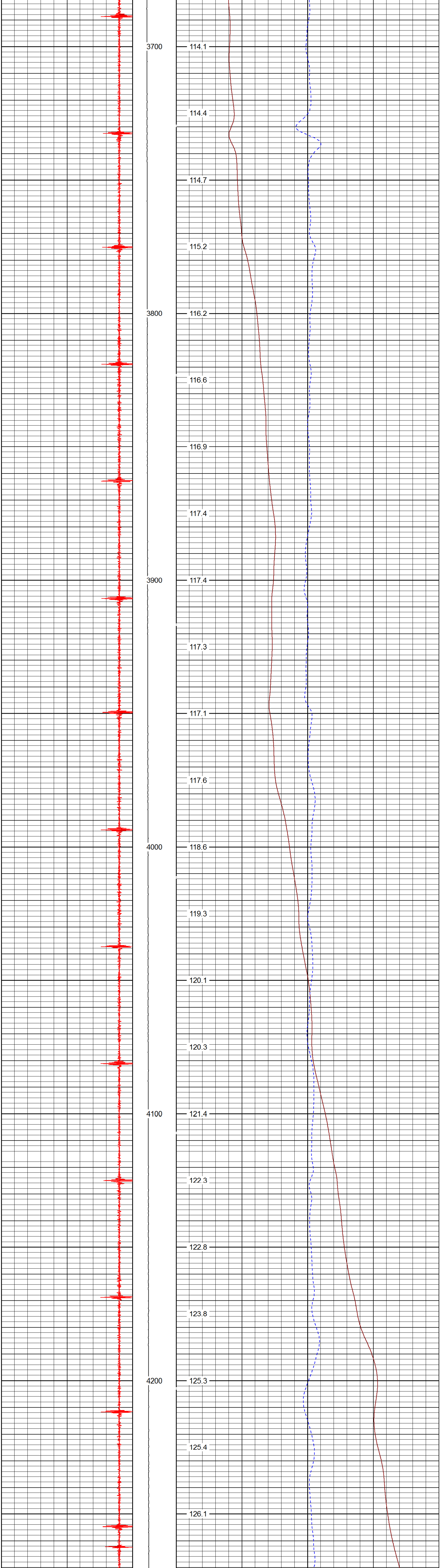


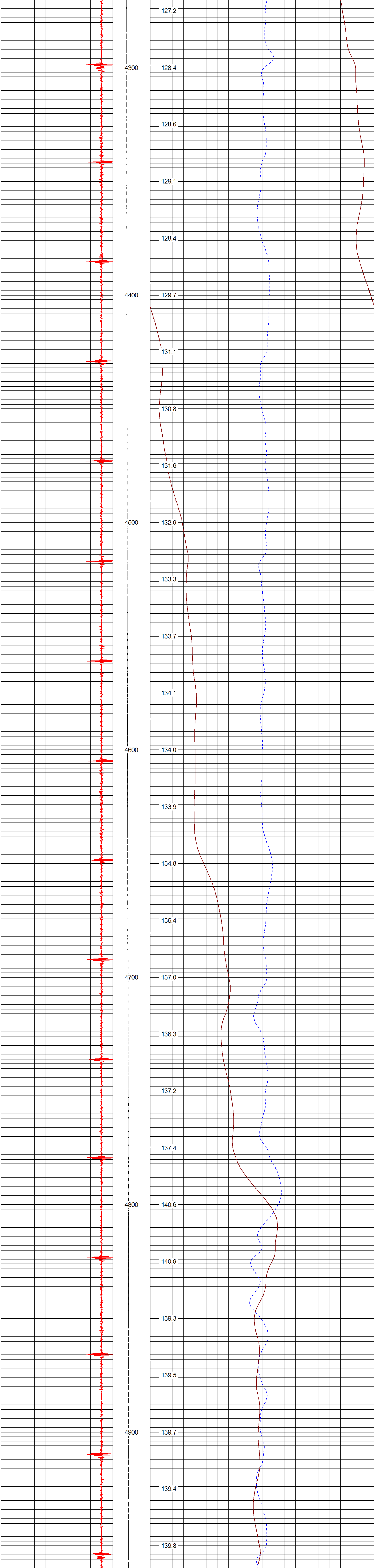


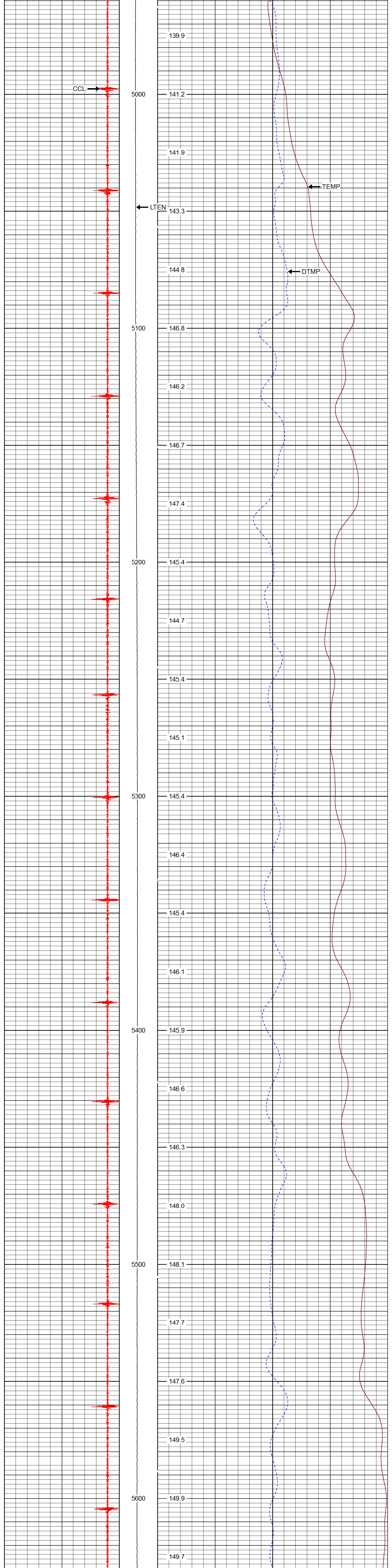







3700
114.1
114.4
114.7
115.2
3800
116.2
116.6
116.9
117.4
3900
117.4
117.3
117.1
117.6
4000
118.6
119.3
120.1
120.3
4100
121.4
122.3
122.8
123.8
4200
125.3
125.4
126.1


127.2
4300
128.4
128.6
129.1
128.4
4400
129.7
131.1
130.8
131.6
4500
132.9
133.3
133.7
134.1
4600
134.0
133.9
134.8
136.4
4700
137.0
136.3
137.2
137.4
4800
140.6
140.9
139.3
139.5
4900
139.7
139.4
139.8


CCL
LTEN
TEMP
DTMP
5000
5100
5200
5300
5400
5500
5600
139.9
141.2
141.9
143.3
144.8
146.8
146.2
146.7
147.4
145.4
144.7
145.4
145.1
145.4
146.4
145.4
146.1
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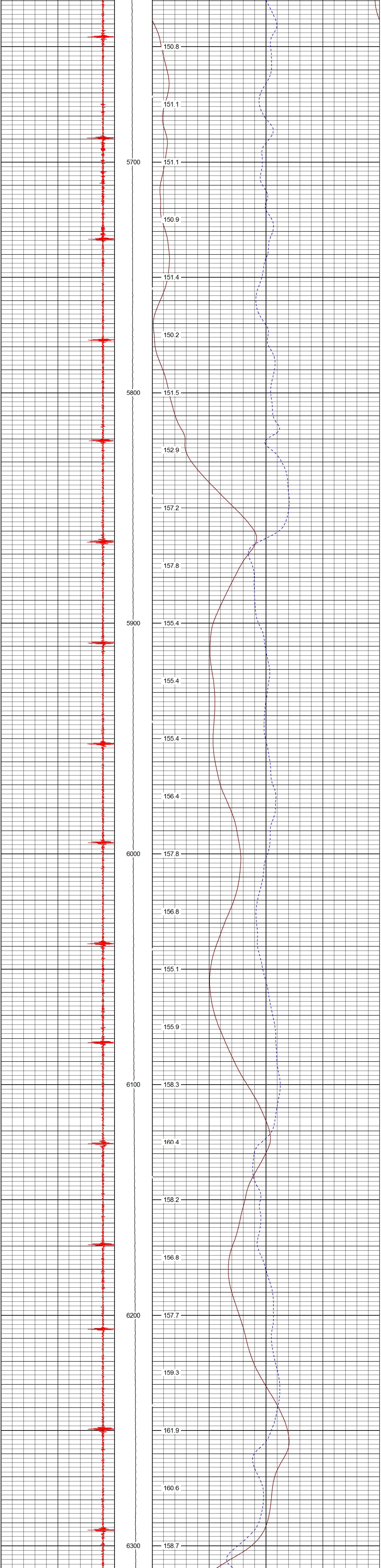
147.6
149.5
149.9
149.7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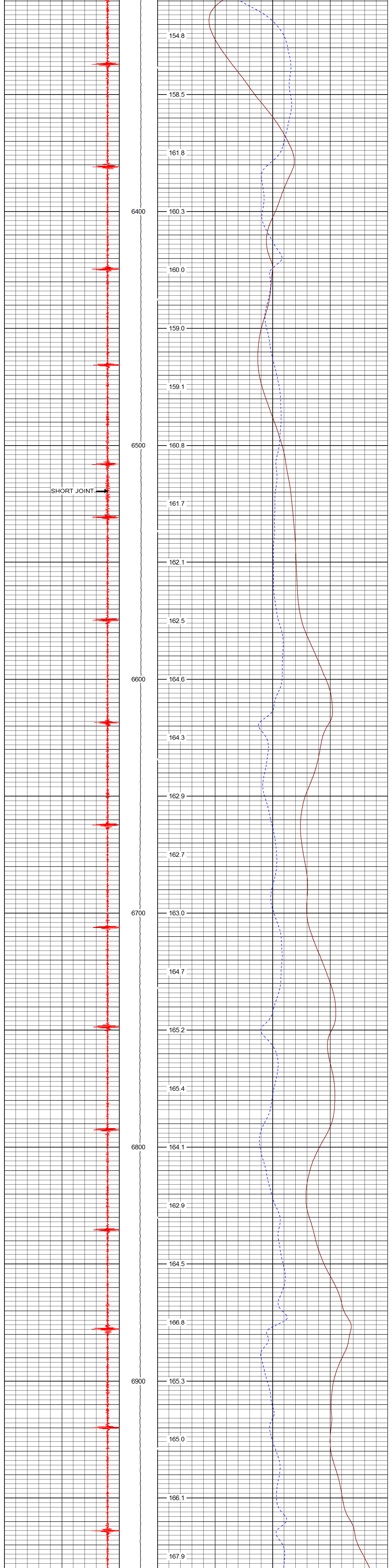
151.1
5700
151.1
150.9
151.4
150.2
5800
151.5
152.9
157.2
157.8
5900
155.4
155.4
155.4
156.4
6000
157.8
156.8
155.1
155.9
6100
158.3
160.4
158.2
156.8
6200
157.7
159.3
161.9
160.6
6300
158.7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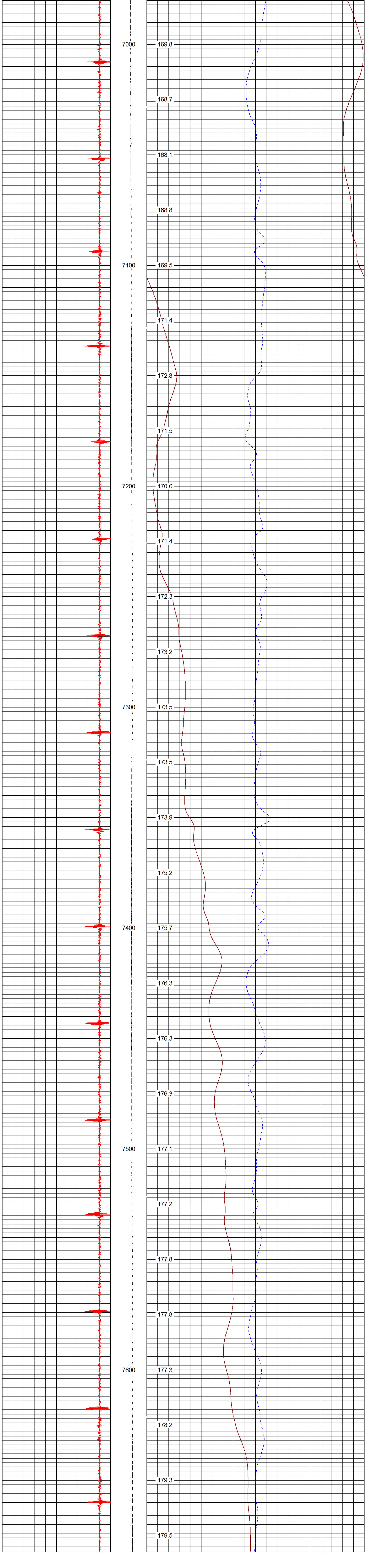
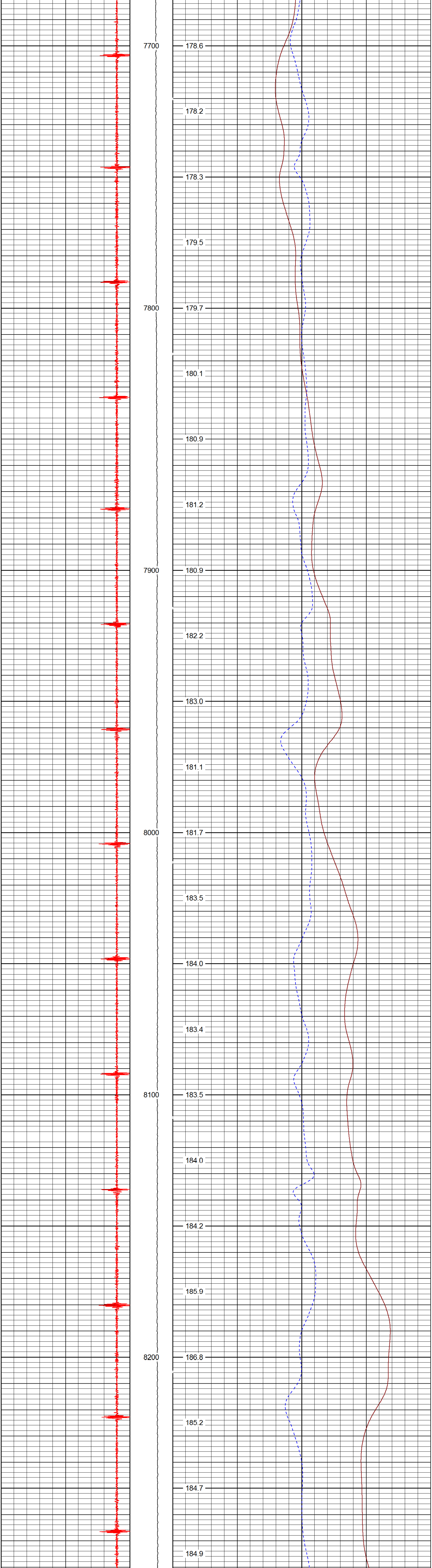
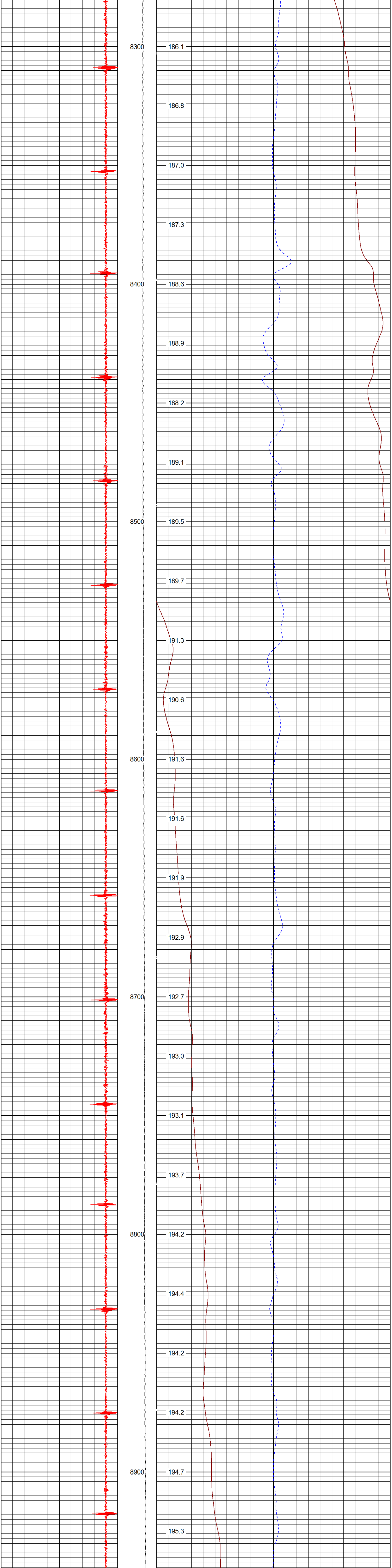
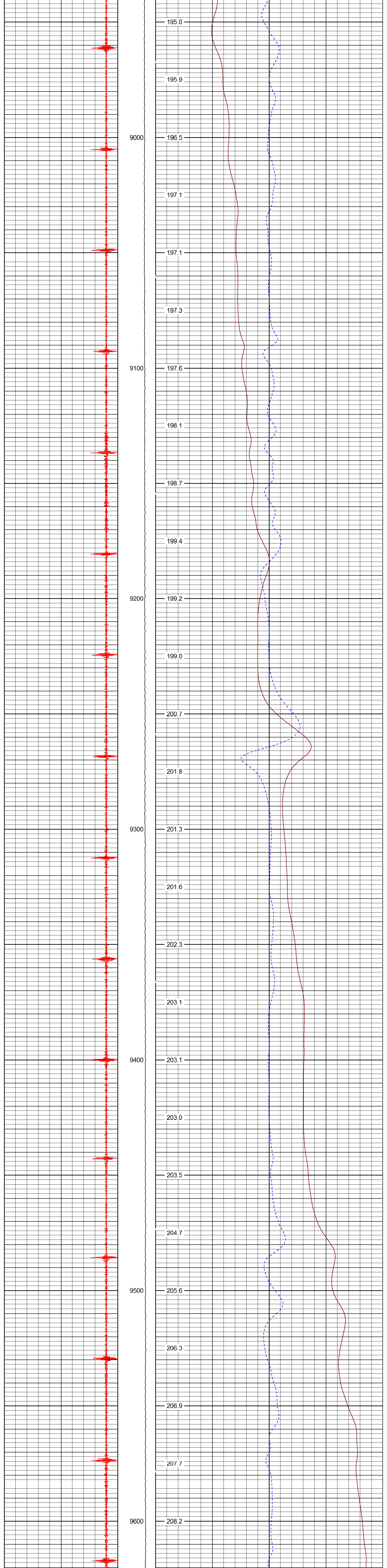
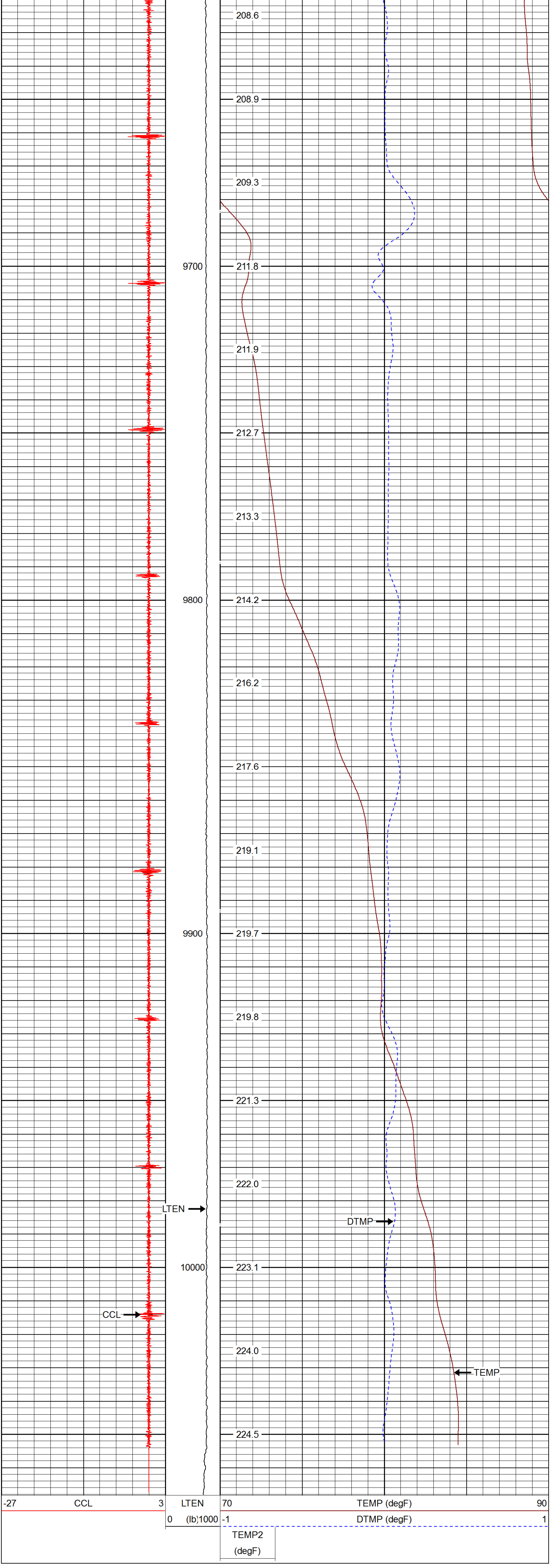
158.5
161.8
6400
160.3
160.0
159.0
159.1
6500
160.8
SHORT JOINT
161.7
162.1
162.5
6600
164.6
164.3
162.9
162.7
6700
163.0
164.7
165.2
165.4
6800
164.1
162.9
164.5
166.8
6900
165.3
165.0
166.1
167.9


7000
169.8
168.7
168.1
168.8
7100
169.5
171.4
172.8
171.5
7200
170.6
171.4
172.3
173.2
7300
173.5
173.5
173.9
175.2
7400
175.7
176.3
176.3
176.3
7500
177.1
177.2
177.8
177.8
7600
177.3
178.2
179.3
179.5





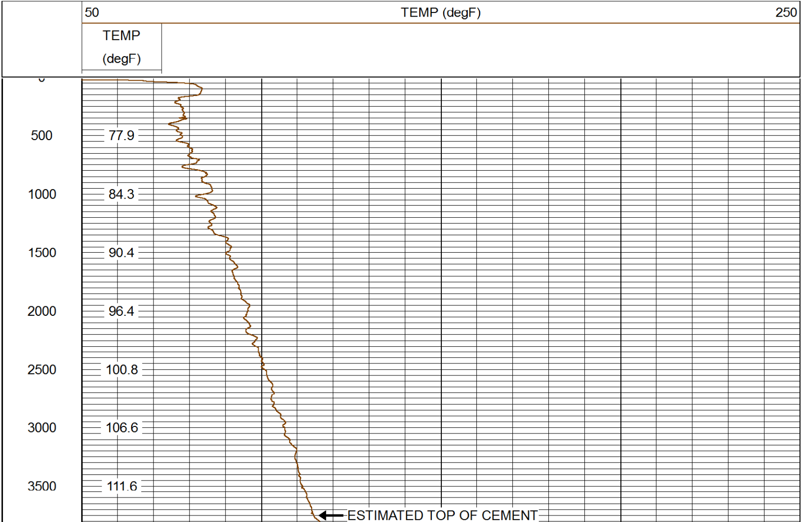


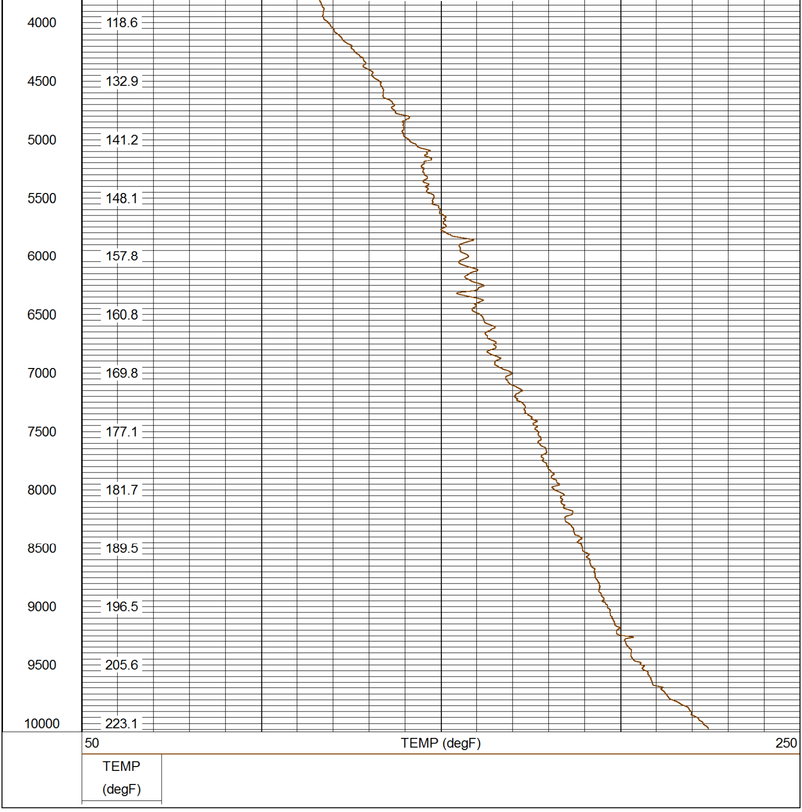


RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

# MAIN PASS QUICKLOOK

| | |
|---|---|
| Database File: | f:\wpx energy\ru 333-7\022715_wpx_ru_333_7.db |
| Dataset Pathname: | main/pass2 |
| Presentation Format: | rmtemp_q |
| Dataset Creation: | Fri Feb 27 13:50:49 2015 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-APPLIED (Applied_2.75)<br>positive or negative voltage logging ccl | 2.02 | 2.75 | 34.00 |
| CCL | 0.81 | | | | | |

Dataset: 022715_wpx_ru_333_7.db: field/well/main/pass1
Total Length: 4.69 ft
Total Weight: 45.00 lb
O.D. 2.75 in

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

| | |
|---|---|
| Company | WPX ENERGY |
| Well | RU 543 - 7 |
| Field | RULISON |
| County | GARFIELD |
| State | COLORADO |