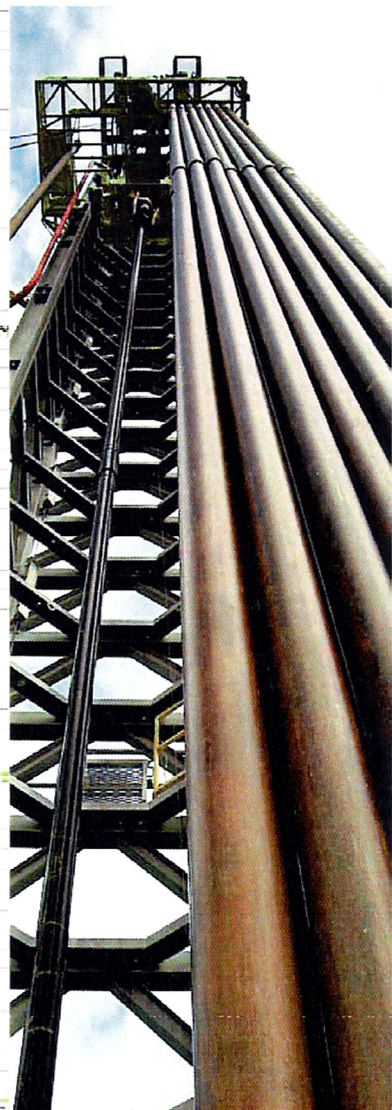
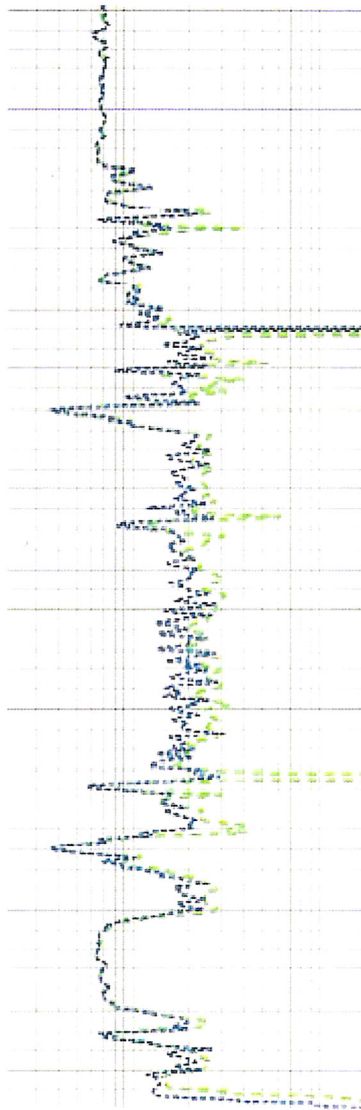
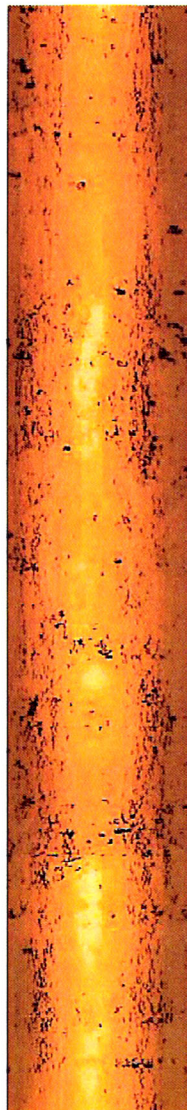
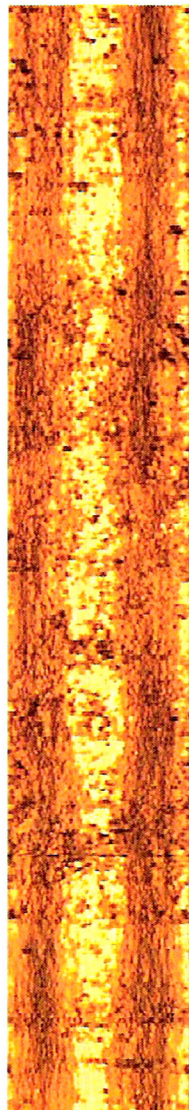


**City of Hialeah
Reverse Osmosis Water Treatment Plant
Injection Wells IW-1 & IW-2 and
Dual-Zone Monitor Well DZMW-1
Completion Report**

**Appendices
Volume 4**

November 12, 2010



List of Appendices

Appendix A	FDEP Class I Injection Well Construction and Testing Permit
Appendix B	Weekly Technical Advisory Committee Letter (IW-1, IW-2 & DZMW-1)
Appendix C	Weekly Construction Summaries (IW-1, IW-2 & DZMW-1)
Appendix D	Geologic Column and Composite Geophysical Logs (IW-1, IW-2 & DZMW-1)
Appendix E	Geologist Logs (IW-1, IW-2 & DZMW-1)
Appendix F	Final Survey, Drilling Containment System and Casing Mill Certificates (IW-1, IW-2 & DZMW-1)
Appendix G	Pad Monitor Well Data
Appendix H	Casing Tally Sheets (IW-1, IW-2 & DZMW-1)
Appendix I	Cement Stage Logs (IW-1, IW-2 & DZMW-1)
Appendix J	Inclination Survey Data (IW-1, IW-2 & DZMW-1)
Appendix K	Laboratory Analytical Test Results of Water Quality
Appendix L	Core Sample Inventory, Descriptions & Laboratory Report
Appendix M	Geophysical Log Interpretations & Logs of Video Surveys (IW-1, IW-2 & DZMW-1)
Appendix N	IW-1 Geophysical Logs
Appendix O	IW-2 Geophysical Logs
Appendix P	DZMW-1 Geophysical Logs
Appendix Q	Video Logs
Appendix R	Packer Tests (IW-1, IW-2 & DZMW-1)
Appendix S	Injection Tests (IW-1 & IW-2)
Appendix T	MIT Pressure Test

Appendix P



**YOUNGQUIST
BROTHERS, Inc**
GEOPHYSICAL LOGGING DIVISION

**BOREHOLE
TELEVIEWER
LOG**

Company **CITY OF HIALEAH**
Well **MW-1**
Field **HIALEAH R.O.W.T.P.**
County **DADE**
State **FL**

Company **CITY OF HIALEAH**
Well **MW-1**
Field **HIALEAH R.O.W.T.P.**
County **DADE** State **FL**

Location:

API # :

Other Services
SEE
COMMENTS

SEC TWP RGE

Elevation

Permanent Datum

Log Measured From

Drilling Measured From

K.B.
D.F.
G.L.

Date 24-APRIL-2010

Run Number	24-APRIL-2010	EIGHT		
Depth Driller		2260'		
Depth Logger		2260'		
Bottom Logged Interval		2260'		
Top Log Interval		CASING		
Open Hole Size		11"		
Type Fluid		WATER		
Density / Viscosity		NA		
Max. Recorded Temp.		NA		
Estimated Cement Top		NA		
Time Well Ready		0042		
Time Logger on Bottom		0042		
Equipment Number		103		
Location		FT MYERS		
Recorded By		FULLER		
Witnessed By		BARNES, D		

Borehole Record				Borehole Record			
Run Number	Bit	From	To	Run No.	Bit	From	To
ONE	40.5"	SURFACE	157'	FIVE	11"	CASING	2260'
TWO	28.5"	CASING	1076'				
THREE	12.25"	CASING	1940'				
FOUR	18.5"	CASING	1900'				
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	30"	.375" W.T.	SURFACE	156'			
Prot. String	20"	.375 W.T.	SURFACE	1076'			
Production String	12.75"	.375 W.T.	SURFACE	1900'			
liner							

<<< 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.

Comments

FLUID CONDUCTIVITY/TEMP
DUAL INDUCTION
X-Y CALIPER/GAMMA RAY
BOREHOLE SONIC
FLOW

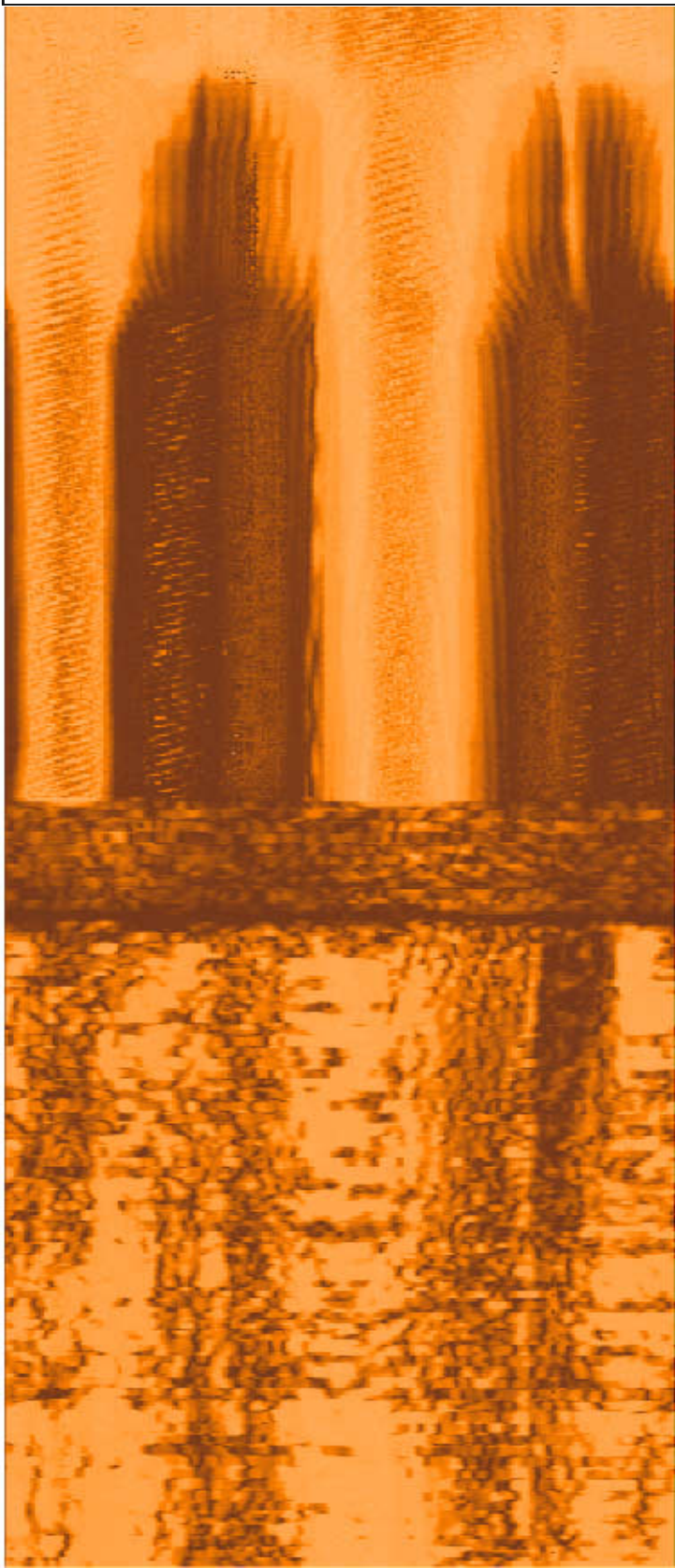


**YOUNGQUIST
BROTHERS, Inc**

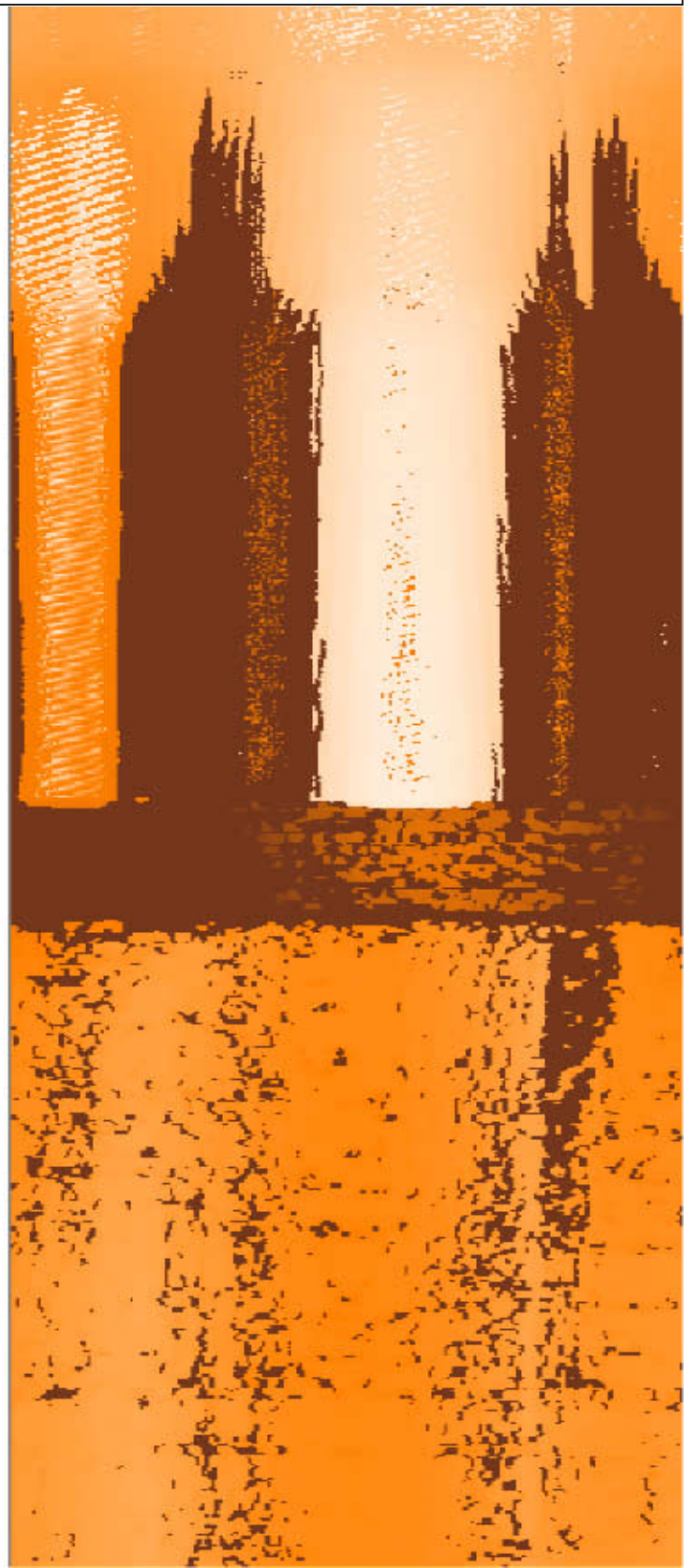
MAIN PASS

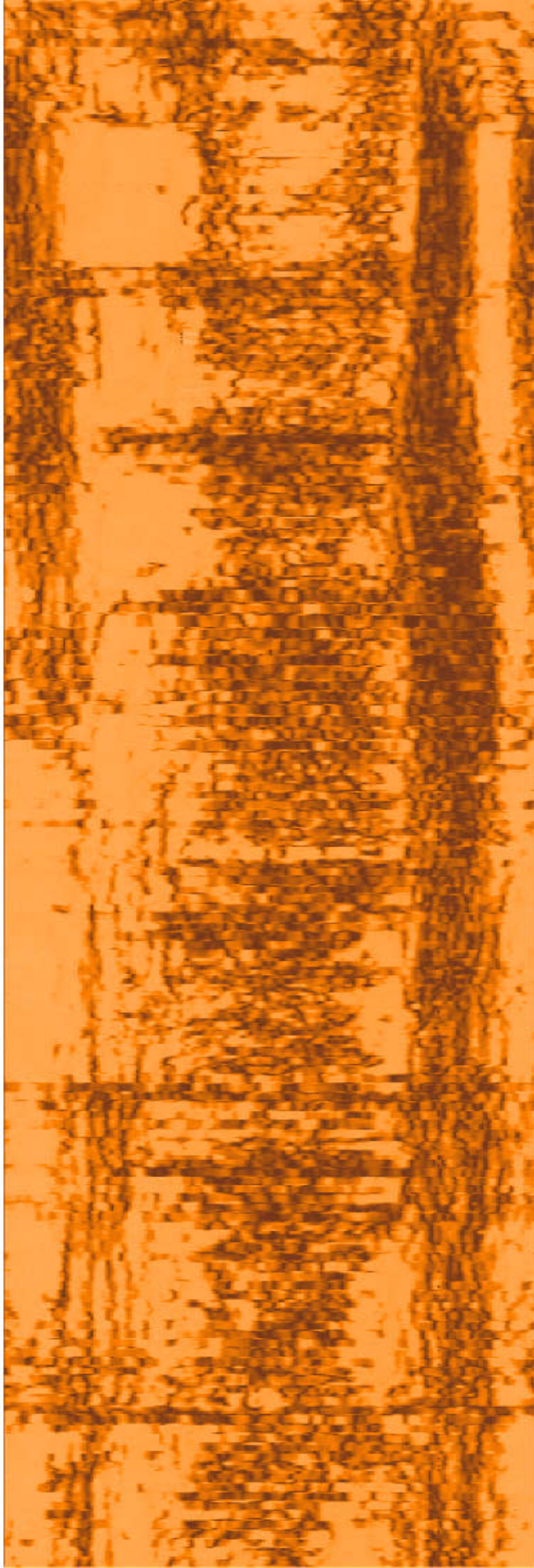
Database File:	hiamwbhtv.db
Dataset Pathname:	run8/pass3
Presentation Format:	mwscan2
Dataset Creation:	Sat Apr 24 11:47:32 2010 by Log Open-Cased 090629
Charted by:	Depth in Feet scaled 1:20

1	AMPMAP	256	1	TMAP	256
0		3	100		315



1895
1896
1897
1898
1899
1900
1901
1902
1903
1904
1905
1906
1907
1908





1909

1910

1911

1912

1913

1914

1915

1916

1917

1918

1919

1920

1921

1922

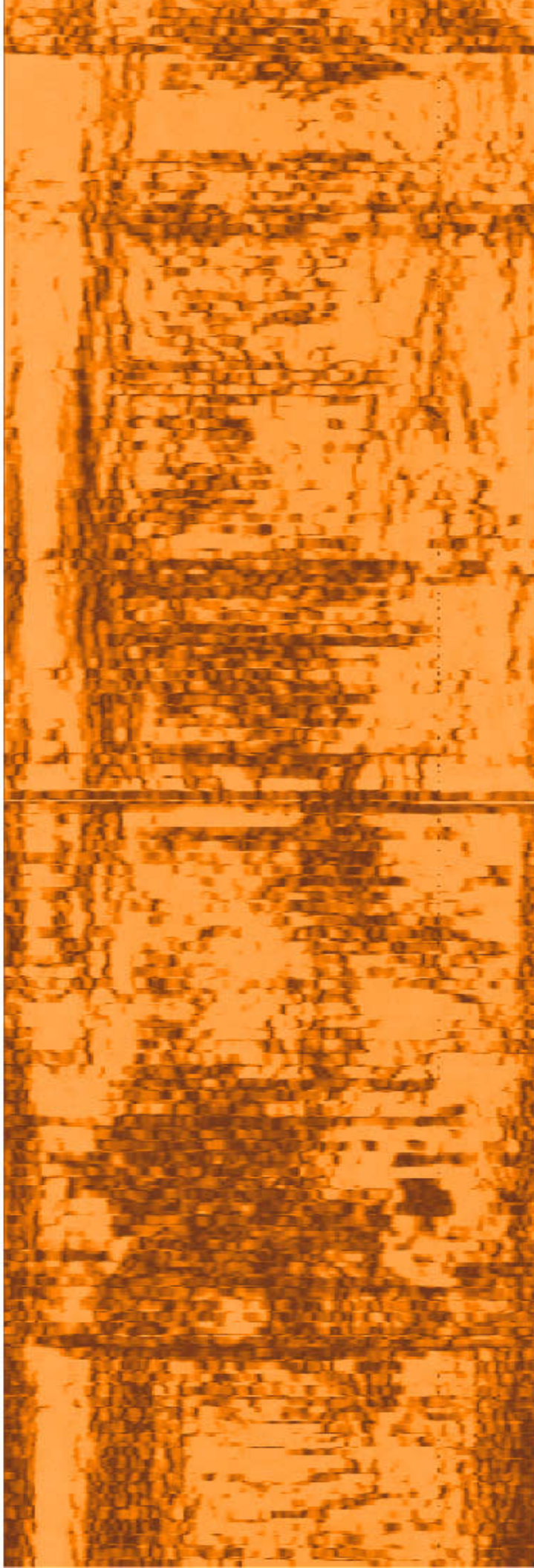
1923

1924

1925

1926





1927

1928

1929

1930

1931

1932

1933

1934

1935

1936

1937

1938

1939

1940

1941

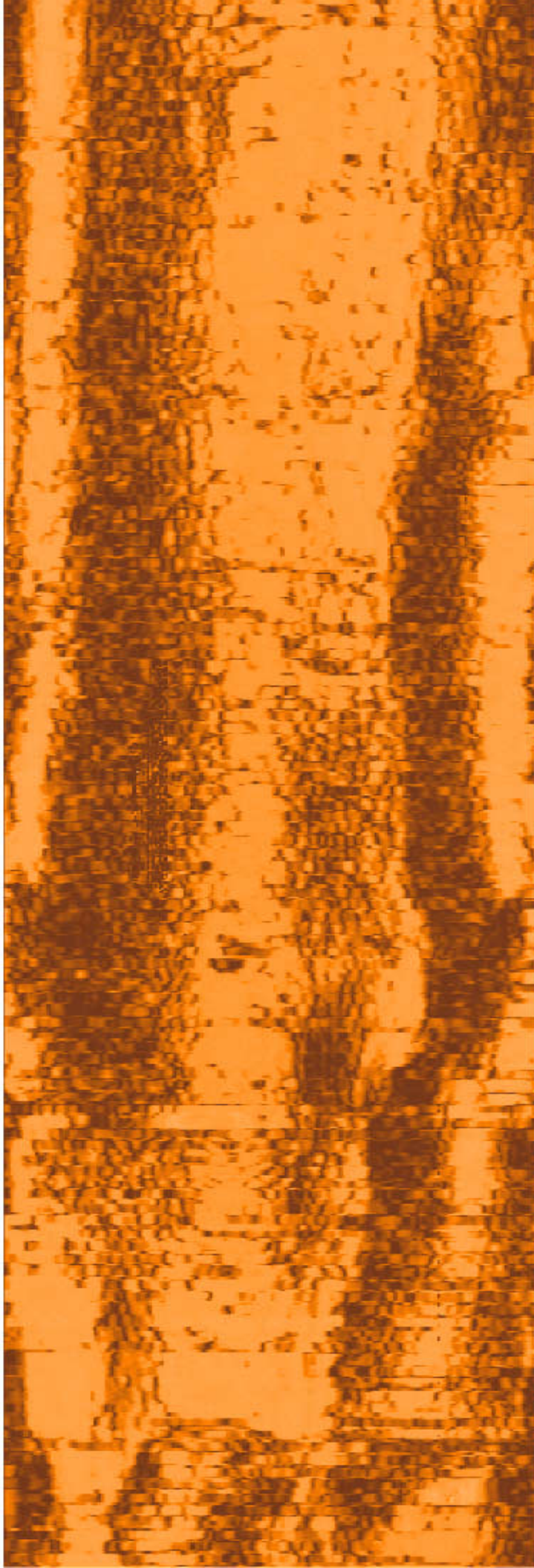
1942

1943

1944

1945





1946

1947

1948

1949

1950

1951

1952

1953

1954

1955

1956

1957

1958

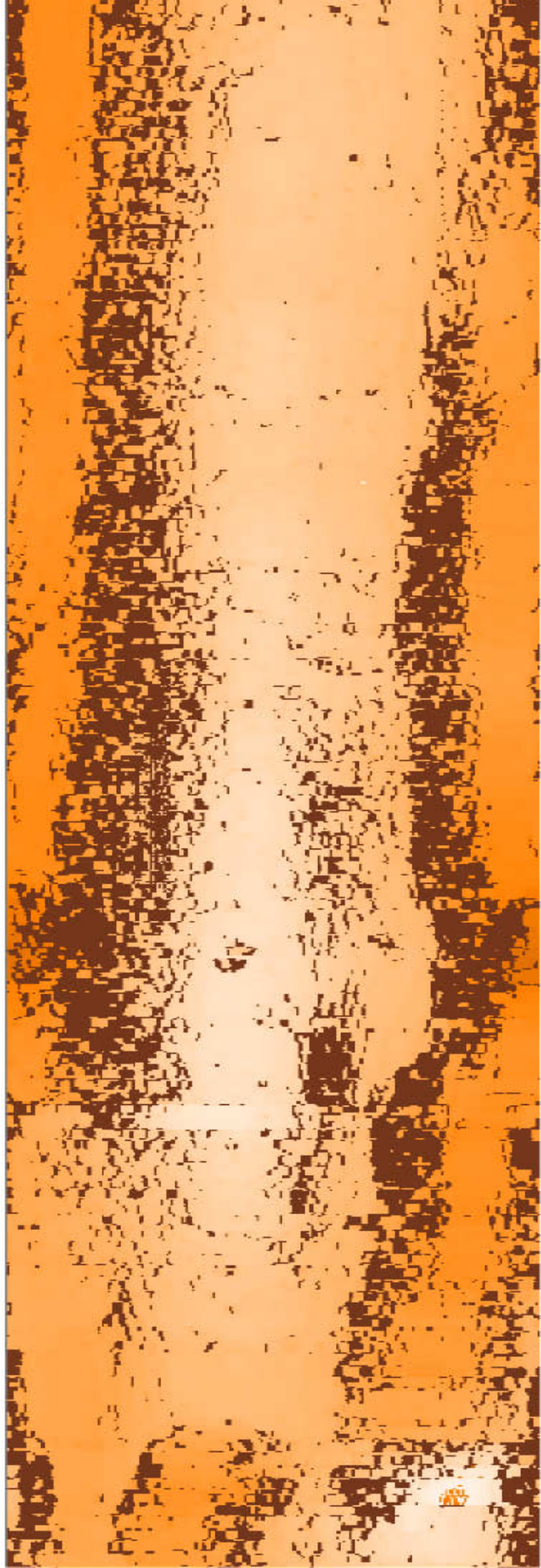
1959

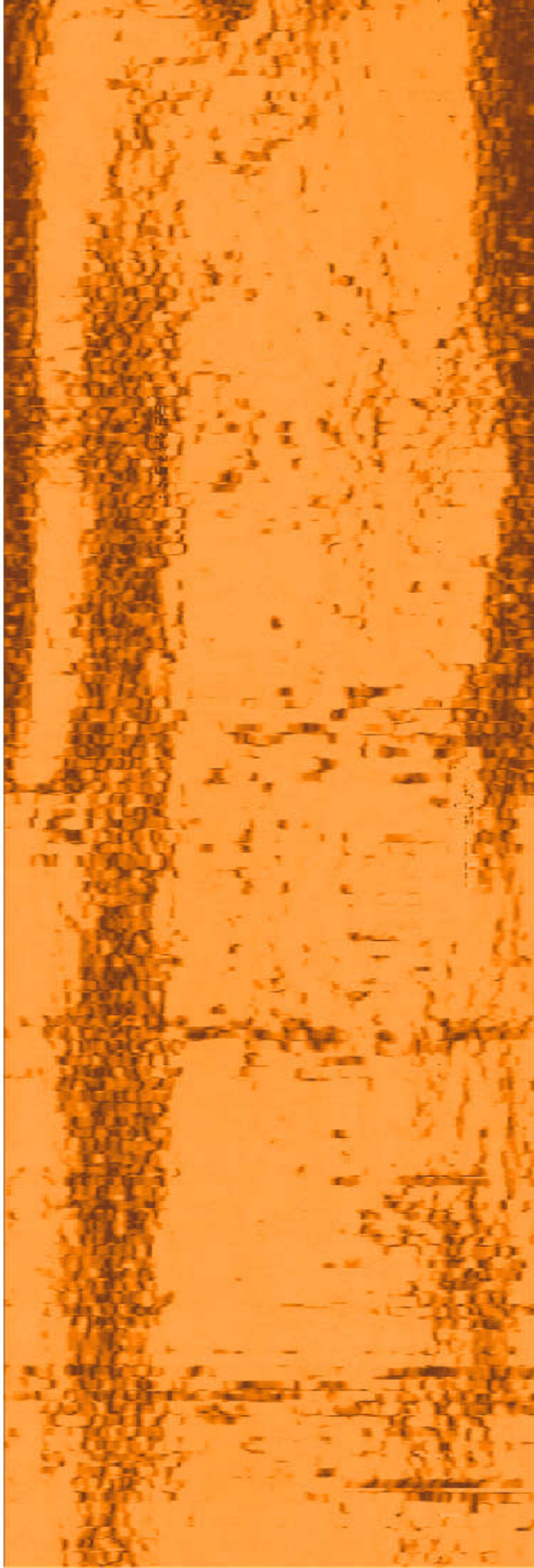
1960

1961

1962

1963





1964

1965

1966

1967

1968

1969

1970

1971

1972

1973

1974

1975

1976

1977

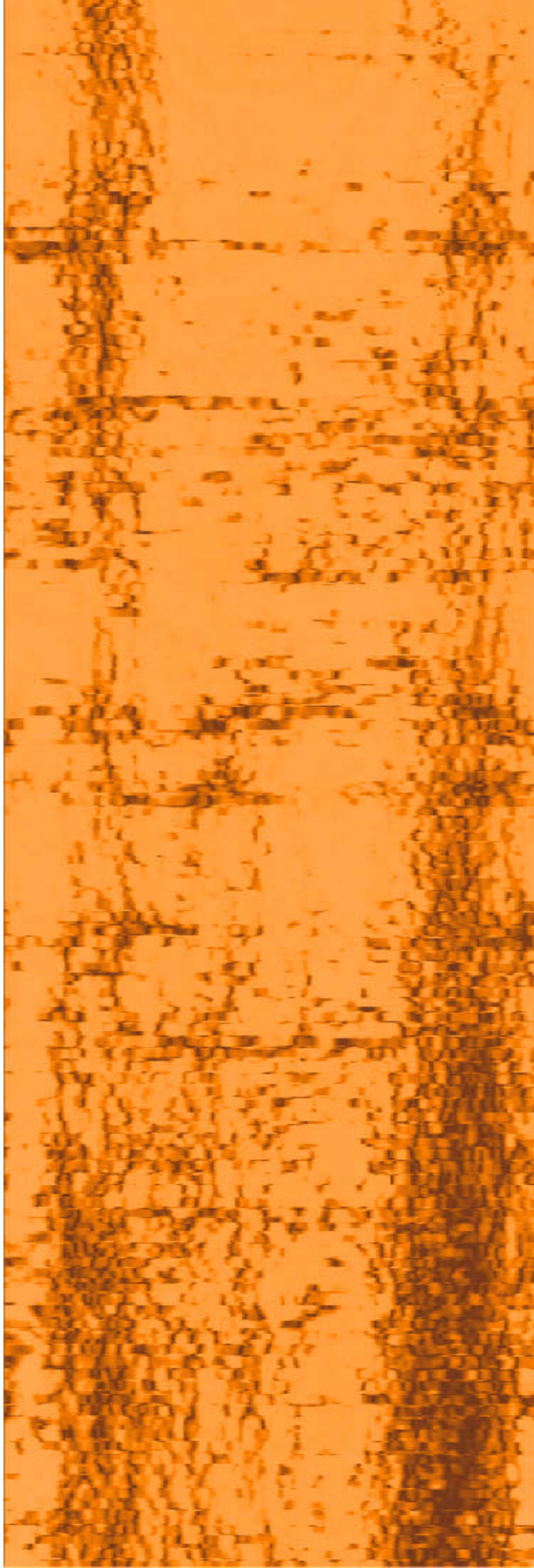
1978

1979

1980

1981





1982

1983

1984

1985

1986

1987

1988

1989

1990

1991

1992

1993

1994

1995

1996

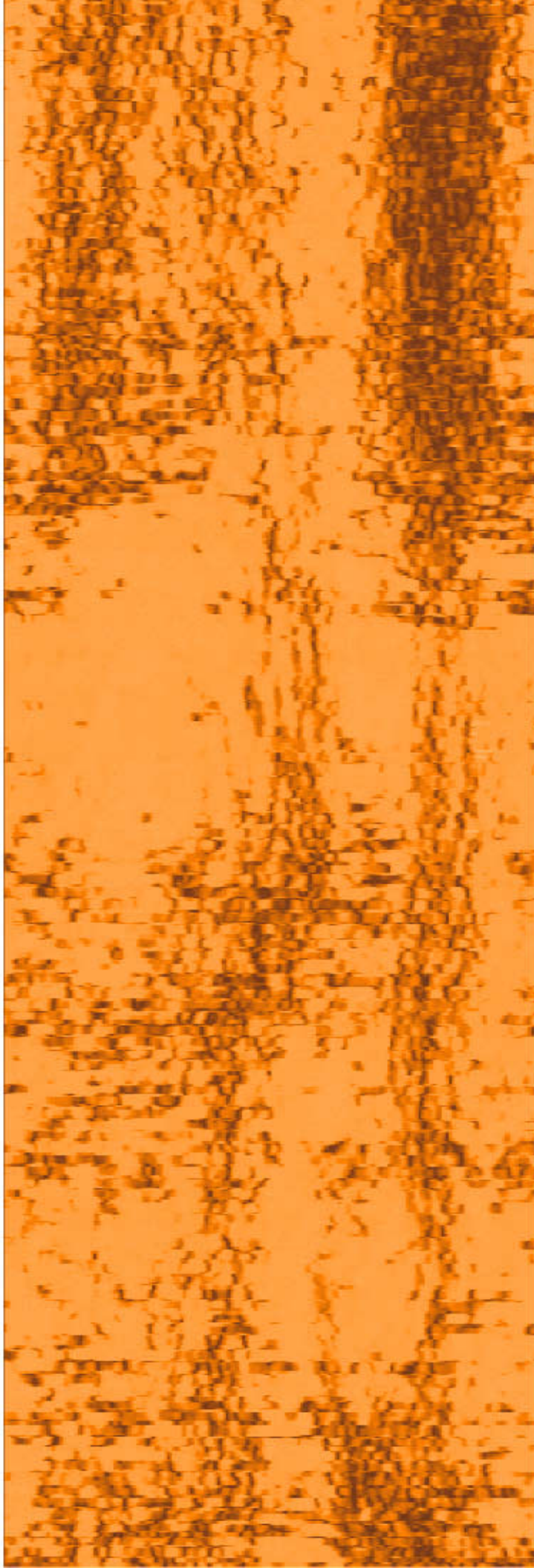
1997

1998

1999

2000





2001

2002

2003

2004

2005

2006

2007

2008

2009

2010

2011

2012

2013

2014

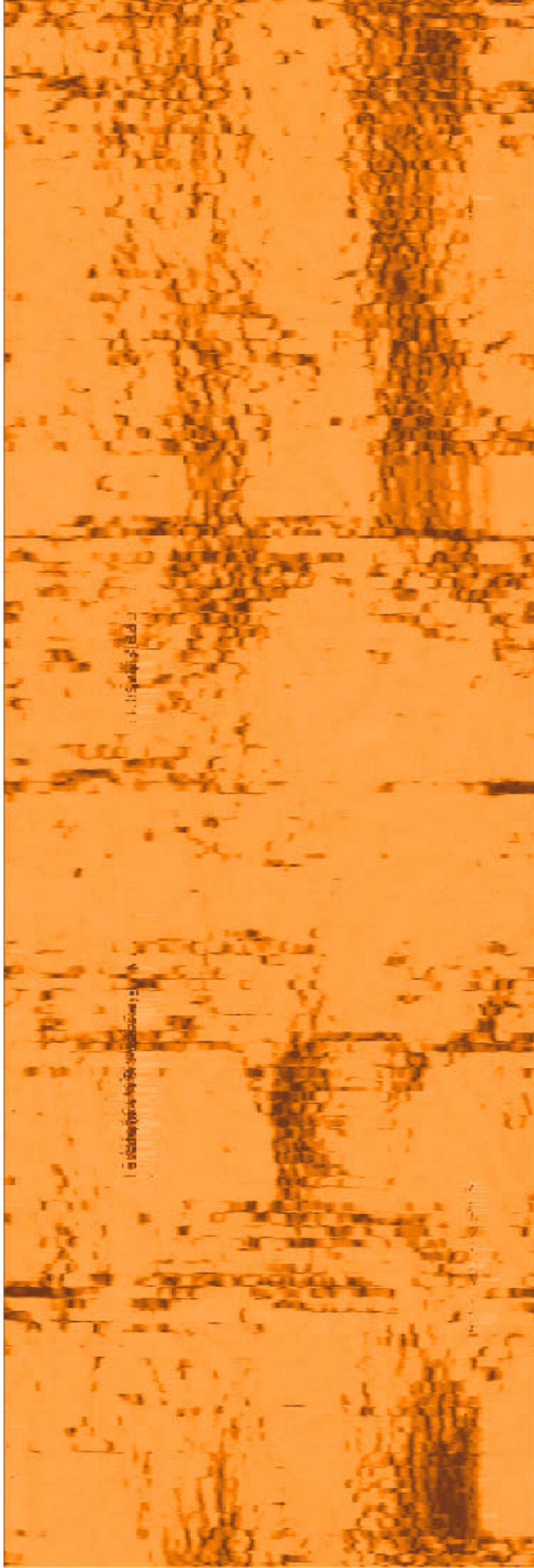
2015

2016

2017

2018





2019

2020

2021

2022

2023

2024

2025

2026

2027

2028

2029

2030

2031

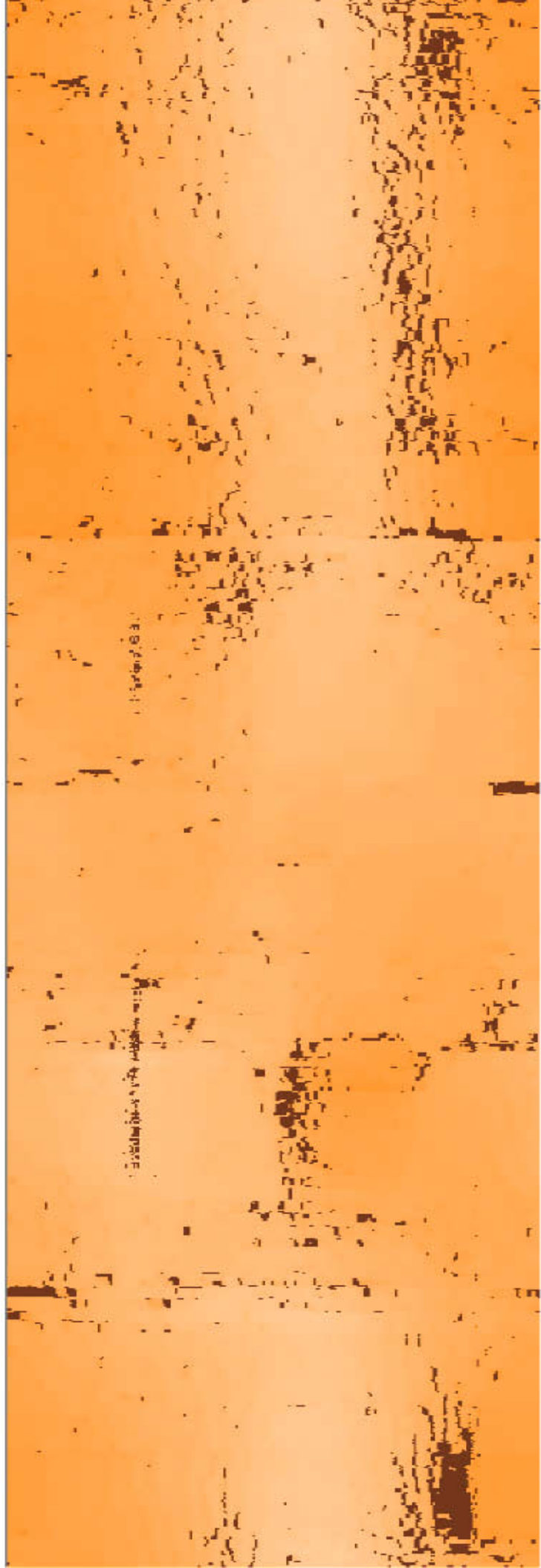
2032

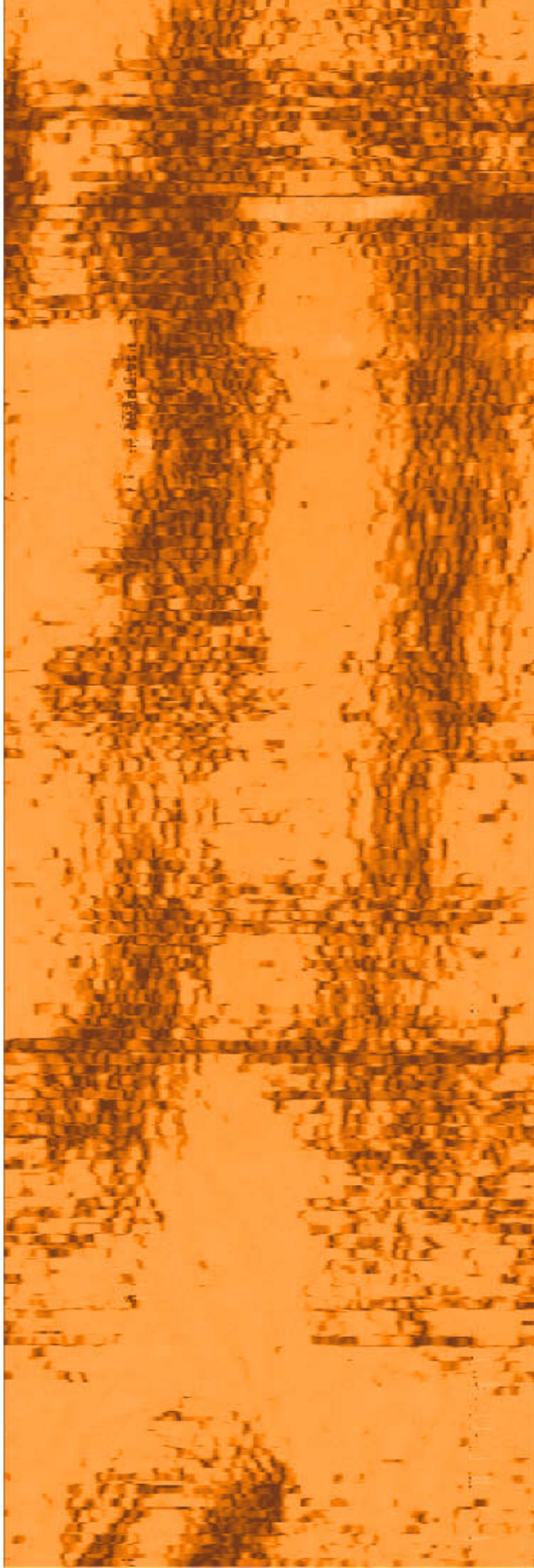
2033

2034

2035

2036





2037

2038

2039

2040

2041

2042

2043

2044

2045

2046

2047

2048

2049

2050

2051

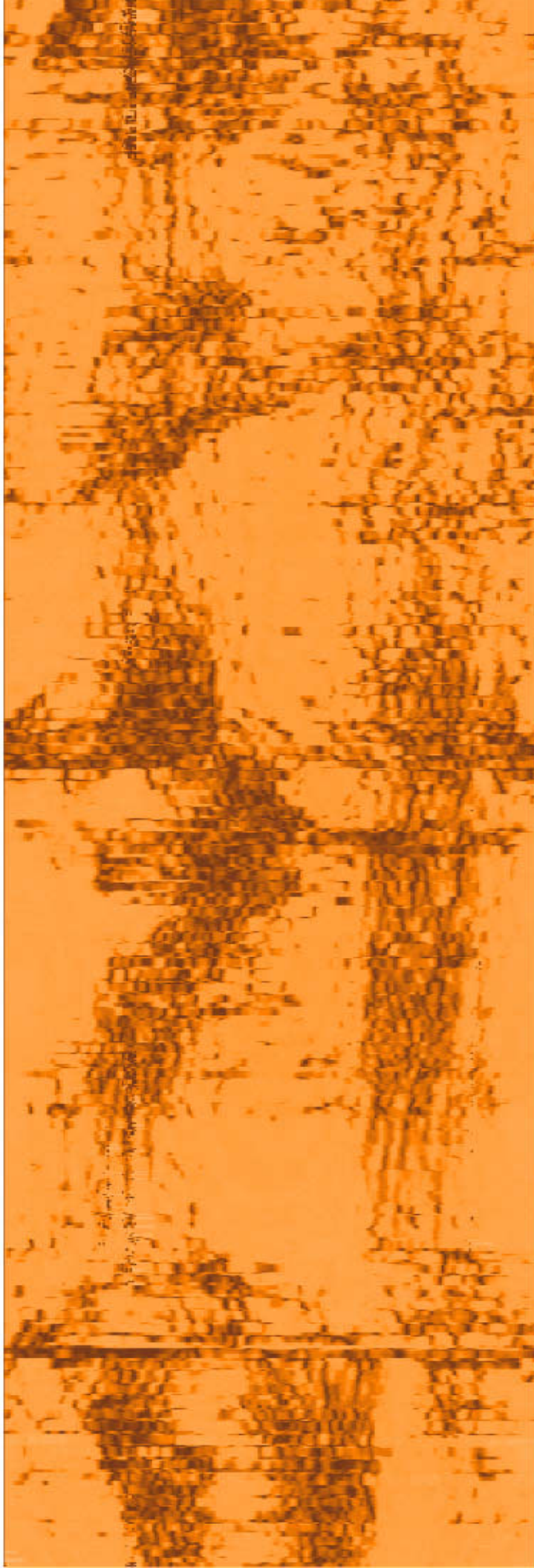
2052

2053

2054

2055





2056

2057

2058

2059

2060

2061

2062

2063

2064

2065

2066

2067

2068

2069

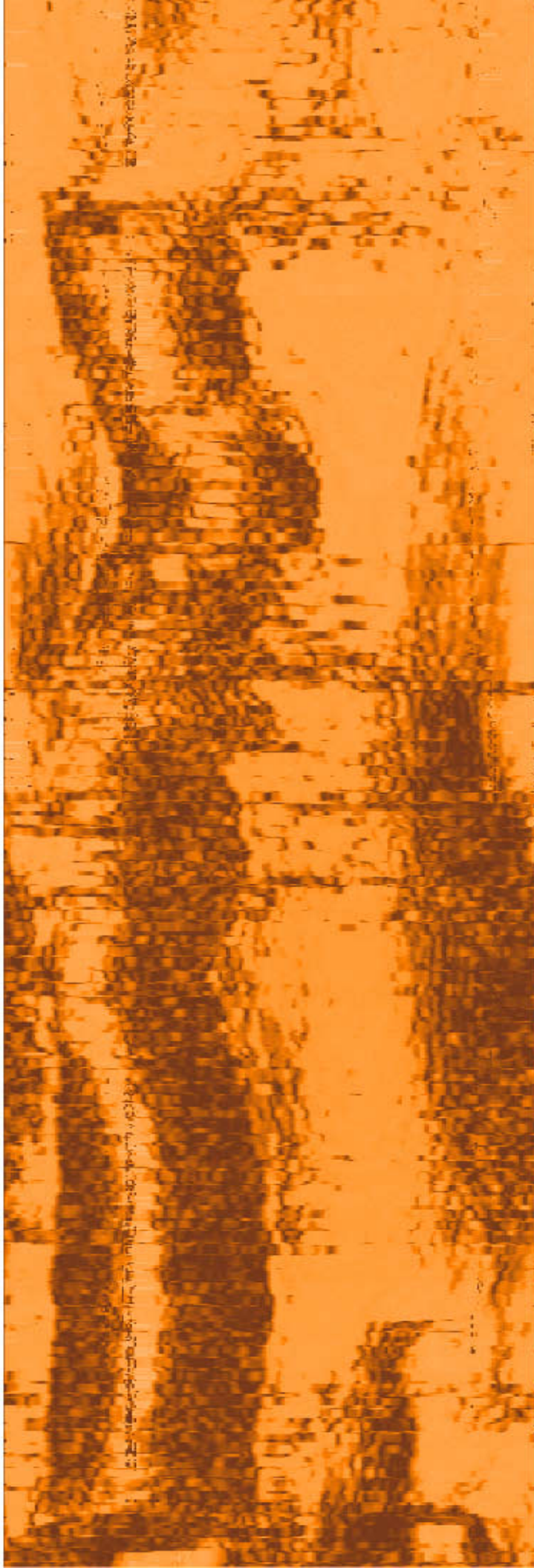
2070

2071

2072

2073





2074

2075

2076

2077

2078

2079

2080

2081

2082

2083

2084

2085

2086

2087

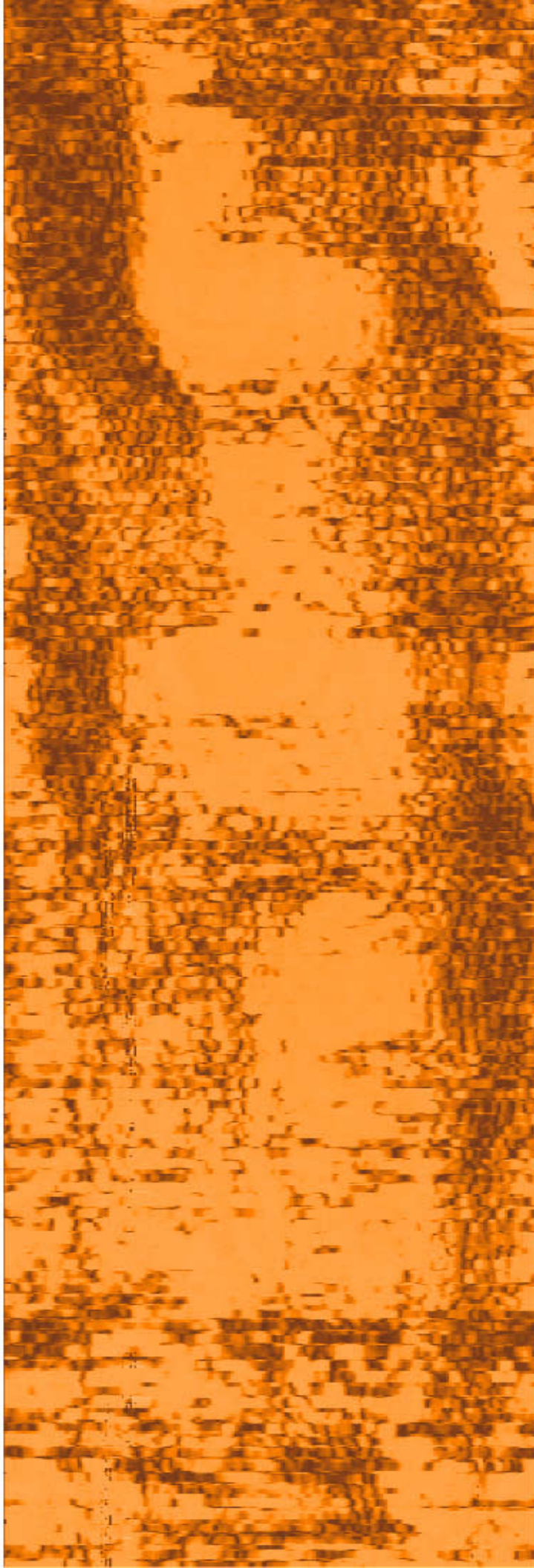
2088

2089

2090

2091





2092

2093

2094

2095

2096

2097

2098

2099

2100

2101

2102

2103

2104

2105

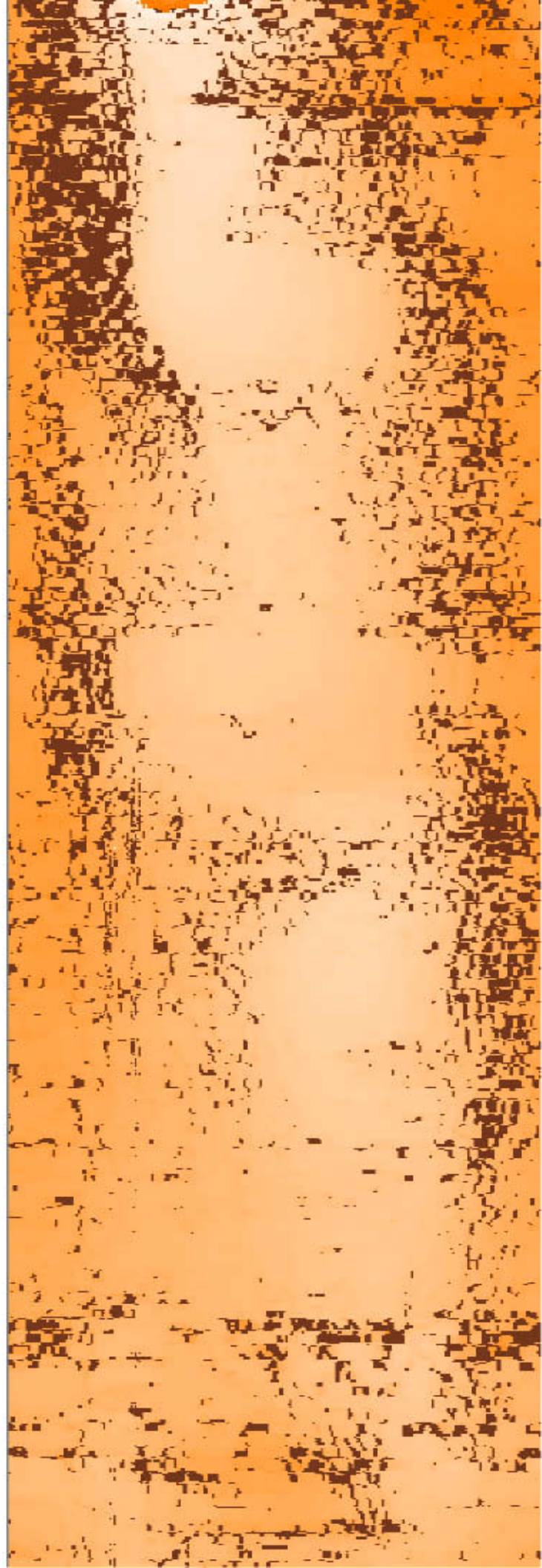
2106

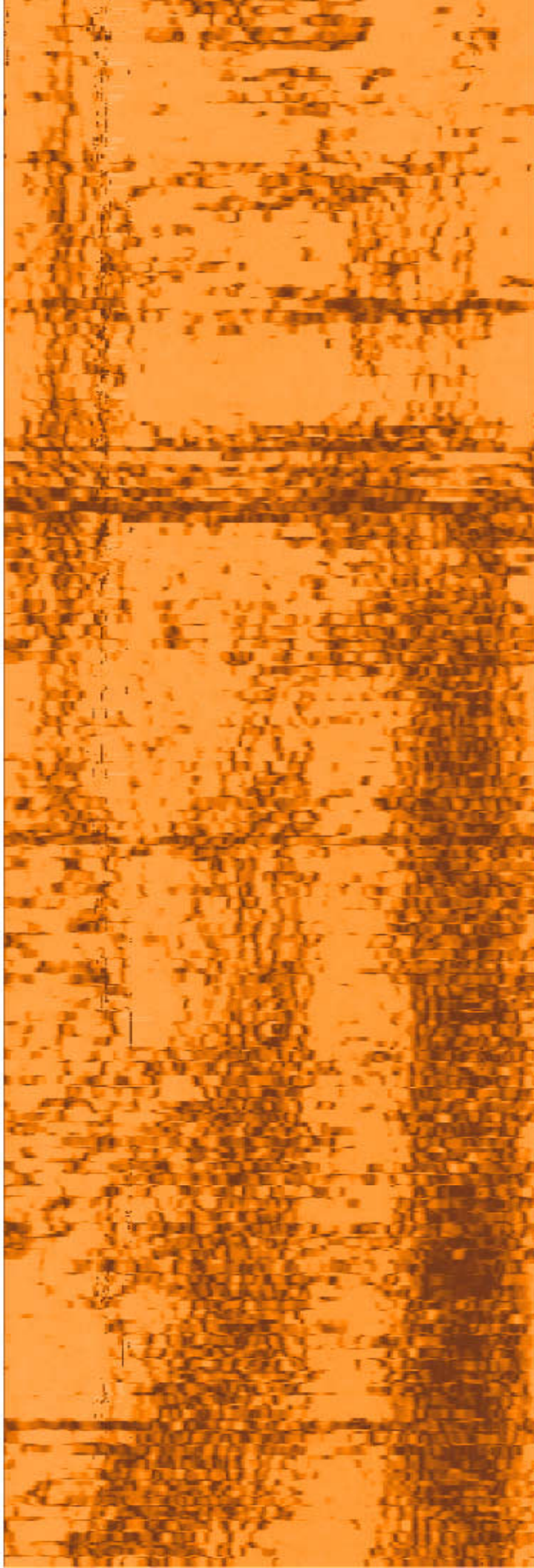
2107

2108

2109

2110





2111

2112

2113

2114

2115

2116

2117

2118

2119

2120

2121

2122

2123

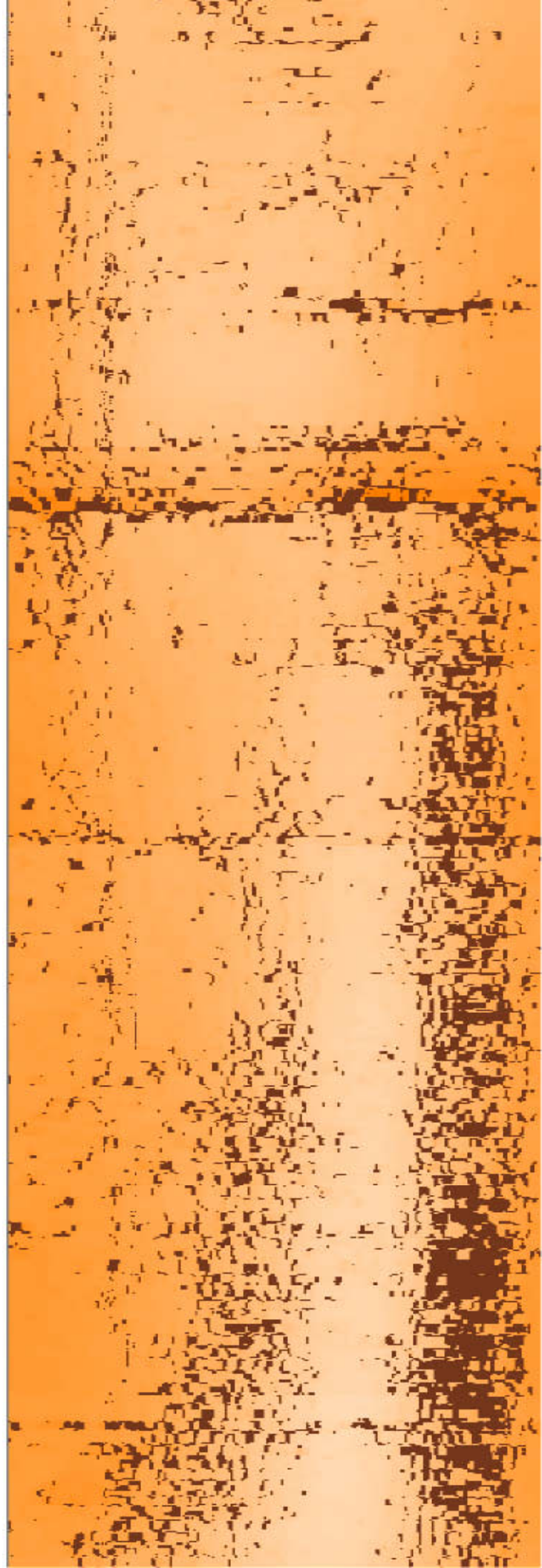
2124

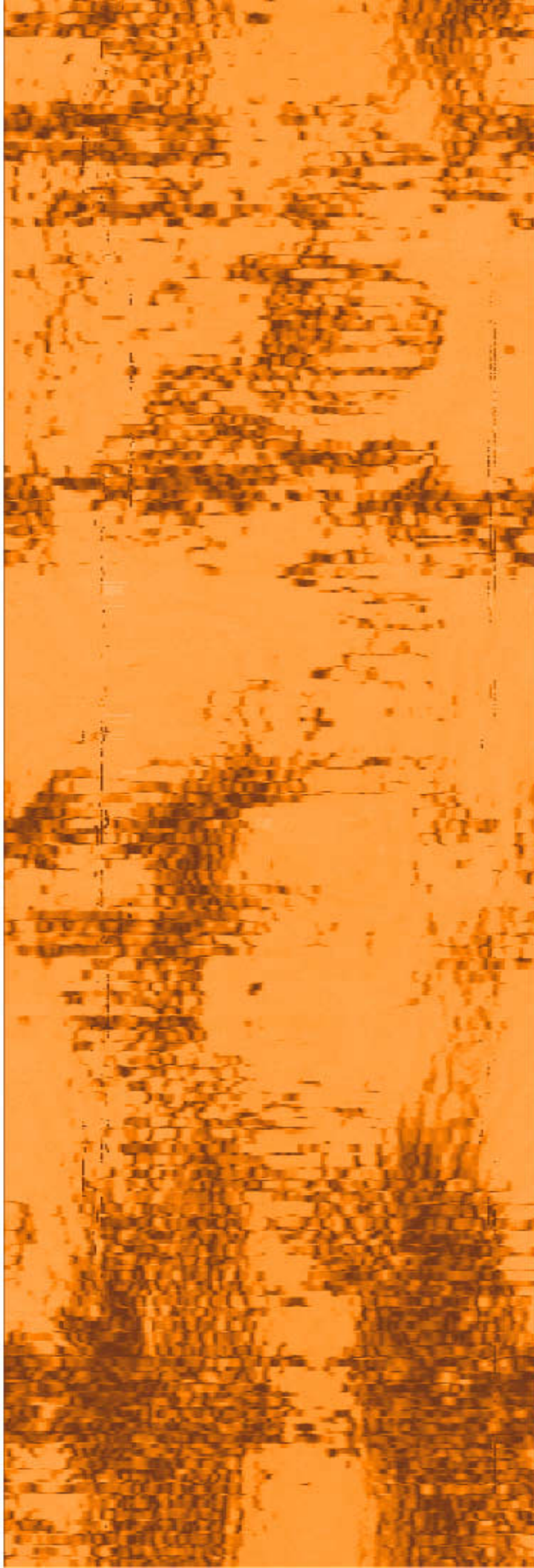
2125

2126

2127

2128





2129

2130

2131

2132

2133

2134

2135

2136

2137

2138

2139

2140

2141

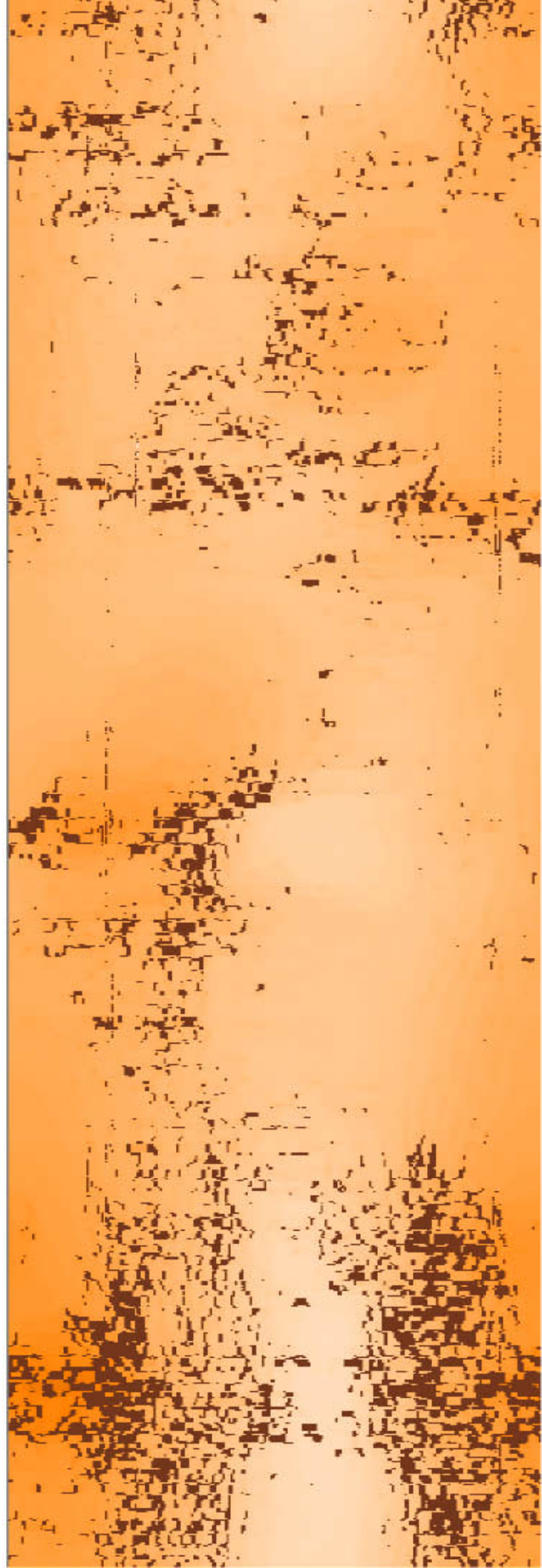
2142

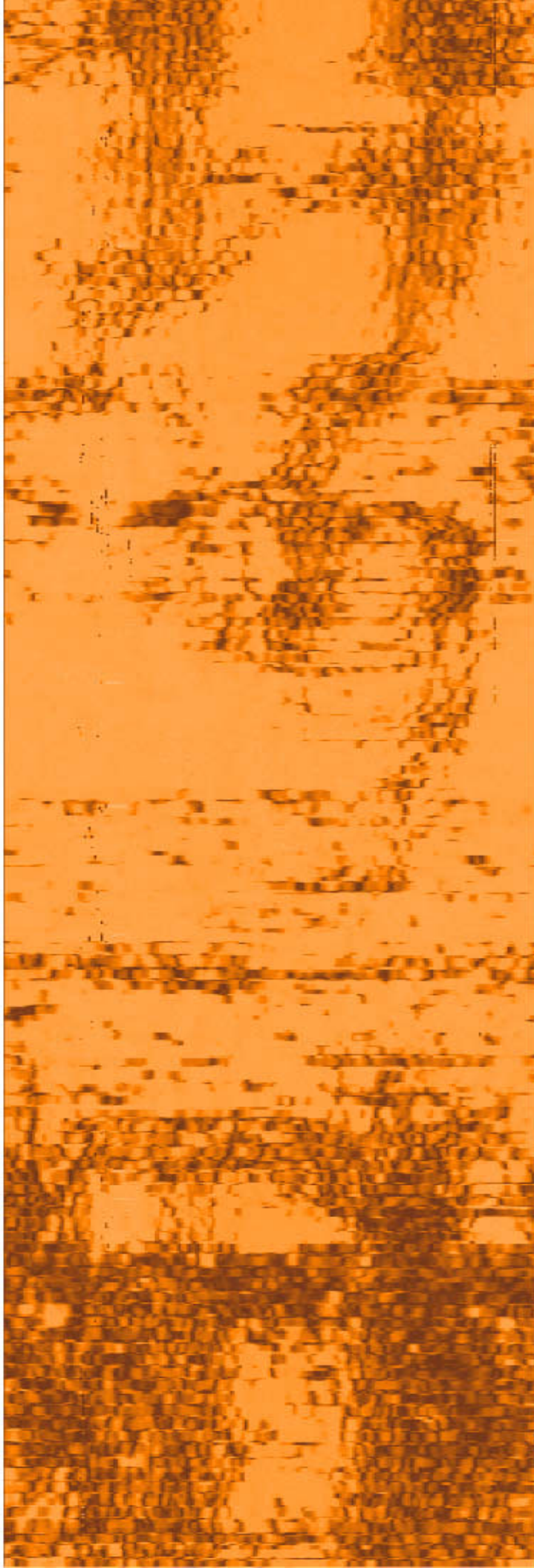
2143

2144

2145

2146





2147

2148

2149

2150

2151

2152

2153

2154

2155

2156

2157

2158

2159

2160

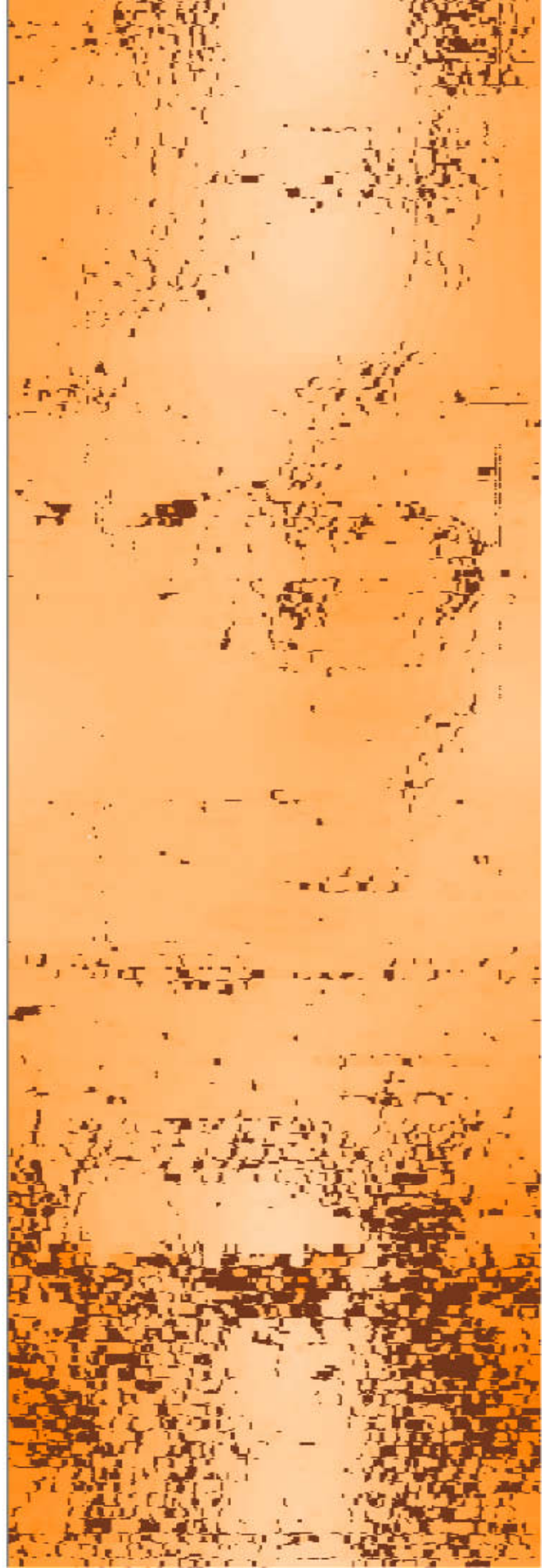
2161

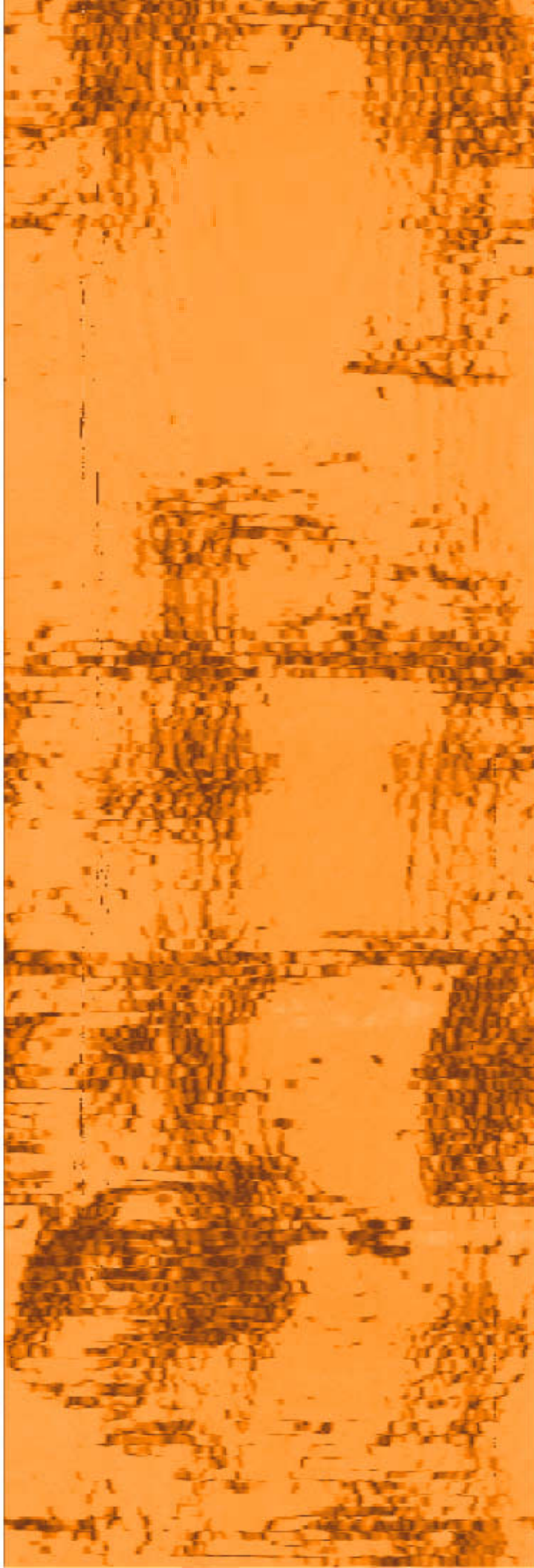
2162

2163

2164

2165





2166

2167

2168

2169

2170

2171

2172

2173

2174

2175

2176

2177

2178

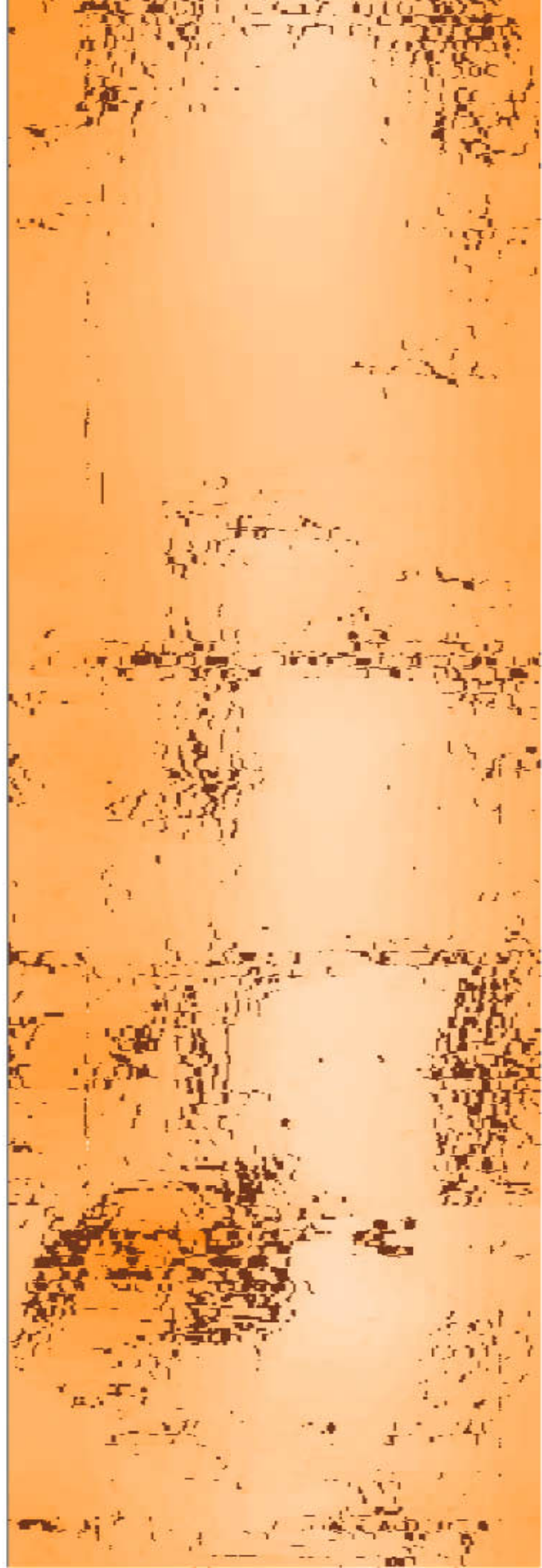
2179

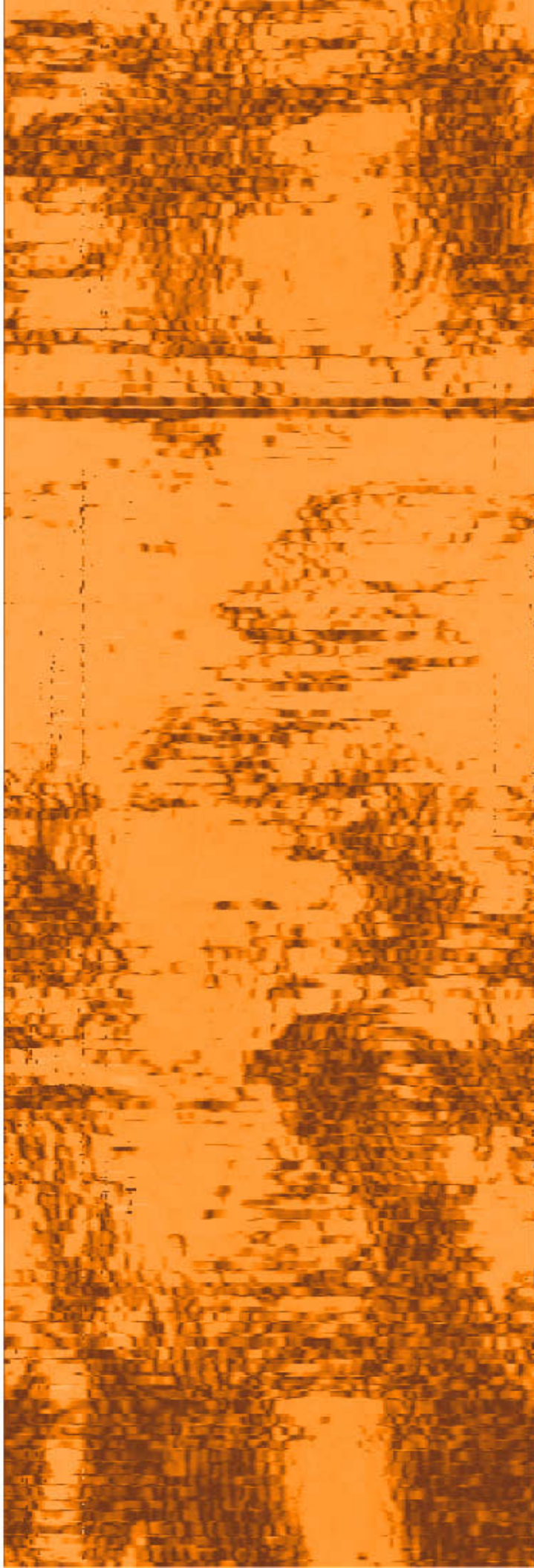
2180

2181

2182

2183





2184

2185

2186

2187

2188

2189

2190

2191

2192

2193

2194

2195

2196

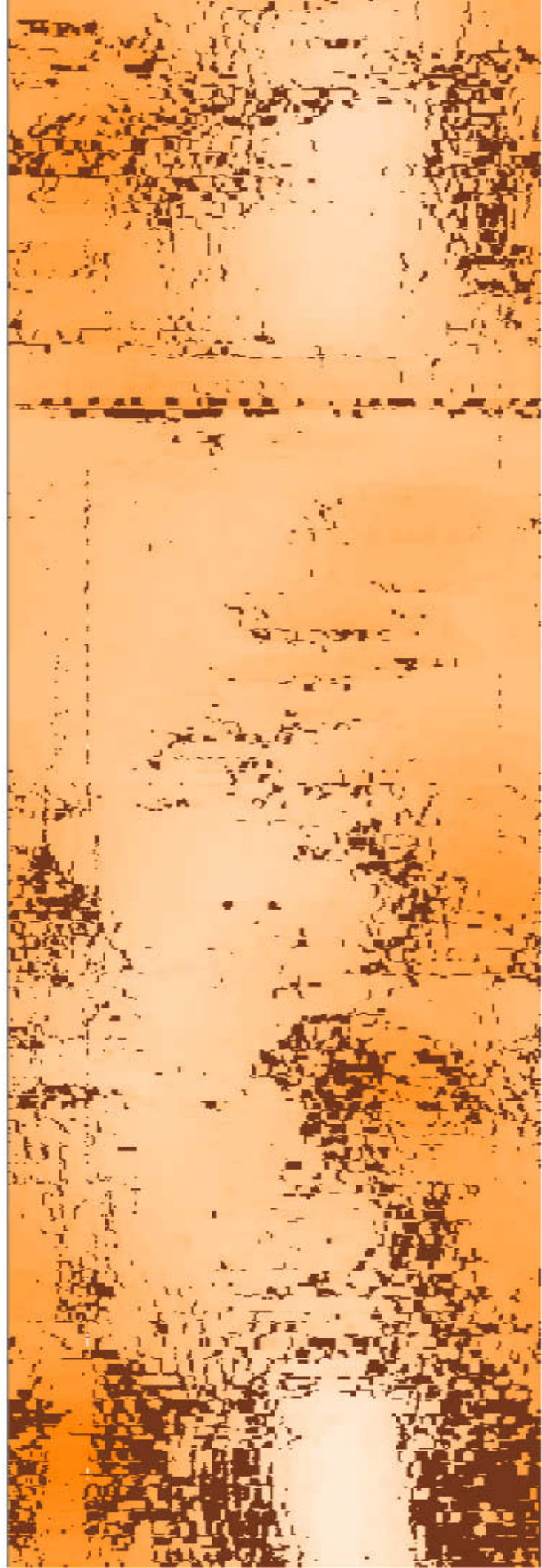
2197

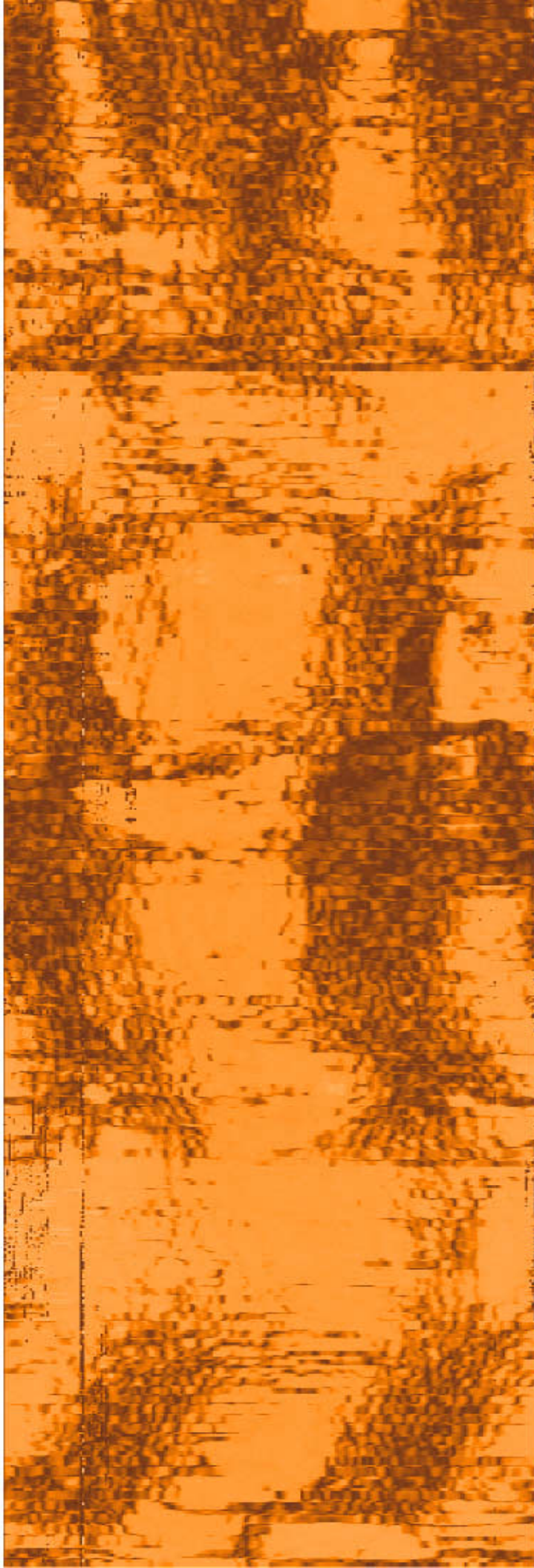
2198

2199

2200

2201





2202

2203

2204

2205

2206

2207

2208

2209

2210

2211

2212

2213

2214

2215

2216

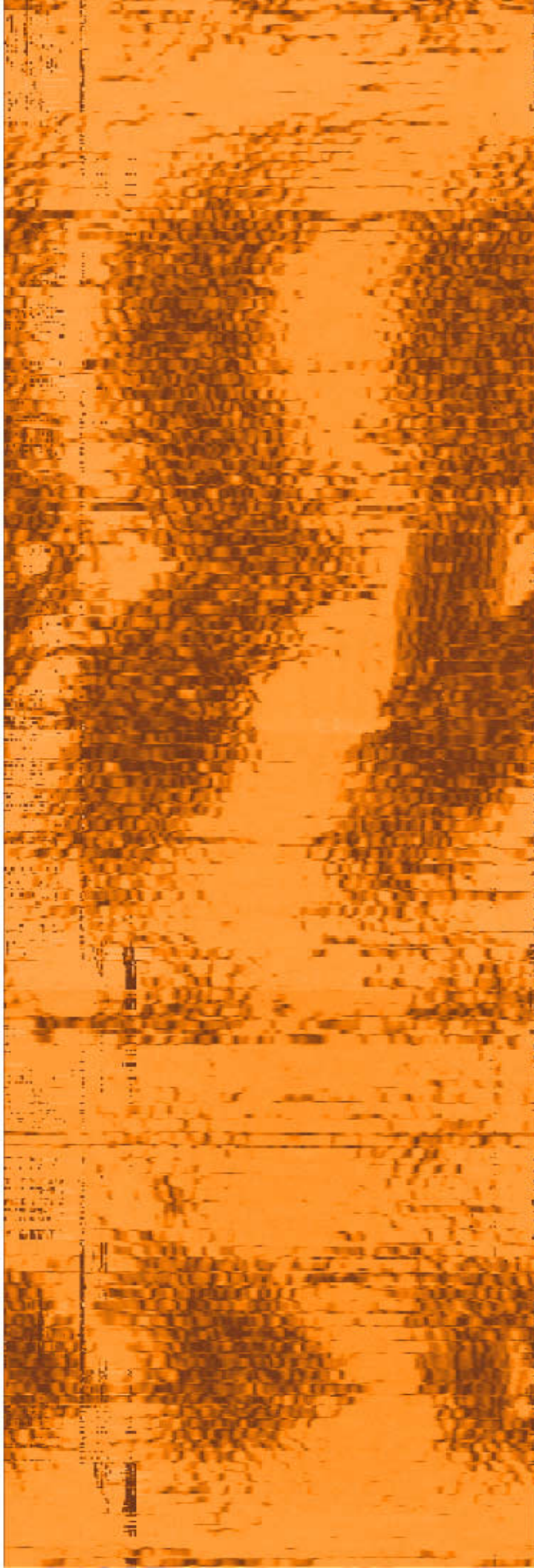
2217

2218

2219

2220





2221

2222

2223

2224

2225

2226

2227

2228

2229

2230

2231

2232

2233

2234

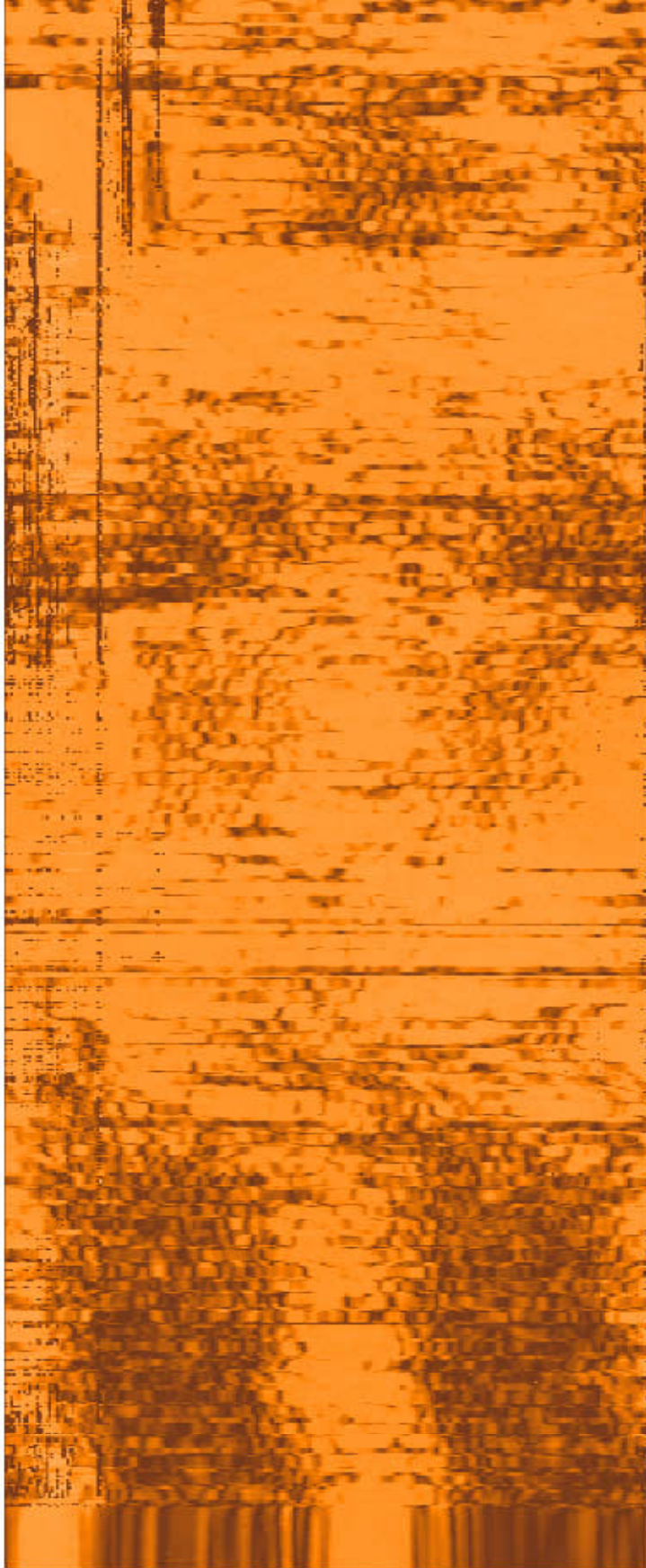
2235

2236

2237

2238





2239

2240

2241

2242

2243

2244

2245

2246

2247

2248

2249

2250

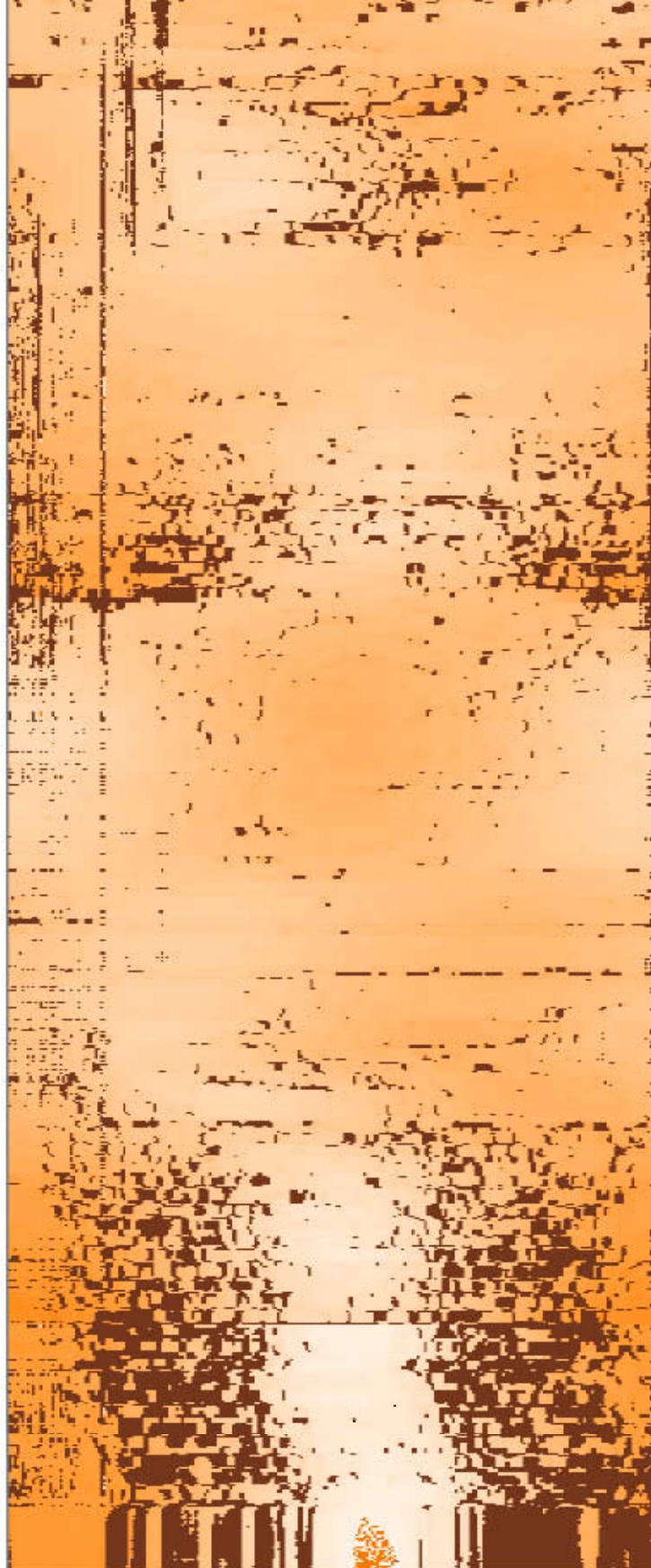
2251

2252

2253

2254

2255



1
0

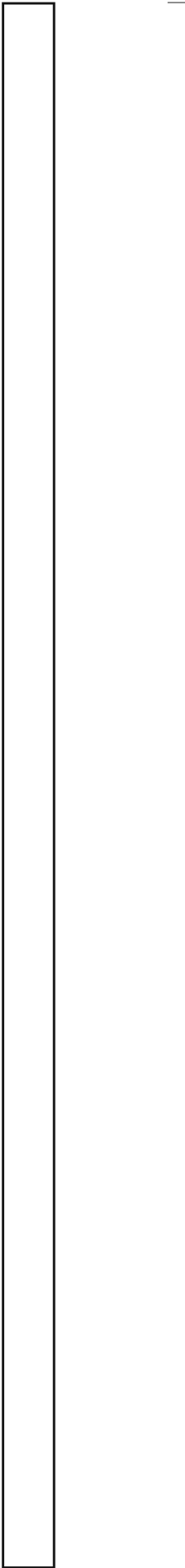
AMP
MAP

256
3

1
100

TT
MAP

256
315

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			MWScan-A (2) MW Scanner Tool	9.75	3.50	225.00
WvfMon	1.50					
WvfScan	1.50					
TTScan	1.50					
AmpScan	1.50					
Aux1	1.50					
RotmS	0.83					
LOCTIM	0.00					

Dataset: hiamwbhtv.db: field/well/run8/pass3

Total Length: 9.75 ft

Total Weight: 225.00 lb

Total Weight 22.95 lb
O.D. 3.50 in



**YOUNGQUIST
BROTHERS, Inc**
GEOPHYSICAL LOGGING DIVISION

**BOREHOLE
TELEVIEWER
LOG**

Company **CITY OF HIALEAH**
Well **MW-1**
Field **HIALEAH R.O.W.T.P.**
County **DADE**
State **FL**

Company **CITY OF HIALEAH**
Well **MW-1**
Field **HIALEAH R.O.W.T.P.**
County **DADE** State **FL**

Location:

API # :

Other Services
SEE
COMMENTS

SEC TWP RGE

Elevation

Permanent Datum

Elevation

Log Measured From

K.B.

D.F.

G.L.

Date 24-APRIL-2010

Run Number	24-APRIL-2010	EIGHT		
Depth Driller		2260'		
Depth Logger		2260'		
Bottom Logged Interval		2260'		
Top Log Interval		CASING		
Open Hole Size		11"		
Type Fluid		WATER		
Density / Viscosity		NA		
Max. Recorded Temp.		NA		
Estimated Cement Top		NA		
Time Well Ready		0042		
Time Logger on Bottom		0042		
Equipment Number		103		
Location		FT MYERS		
Recorded By		FULLER		
Witnessed By		BARNES, D		

Borehole Record				Borehole Record			
Run Number	Bit	From	To	Run No.	Bit	From	To
ONE	40.5"	SURFACE	157'	FIVE	11"	CASING	2260'
TWO	28.5"	CASING	1076'				
THREE	12.25"	CASING	1940'				
FOUR	18.5"	CASING	1900'				
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	30"	.375" W.T.	SURFACE	156'			
Prot. String	20"	.375 W.T.	SURFACE	1076'			
Production String	12.75"	.375 W.T.	SURFACE	1900'			
liner							

<<< 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.

Comments

FLUID CONDUCTIVITY/TEMP
DUAL INDUCTION
X-Y CALIPER/GAMMA RAY
BOREHOLE SONIC
FLOW

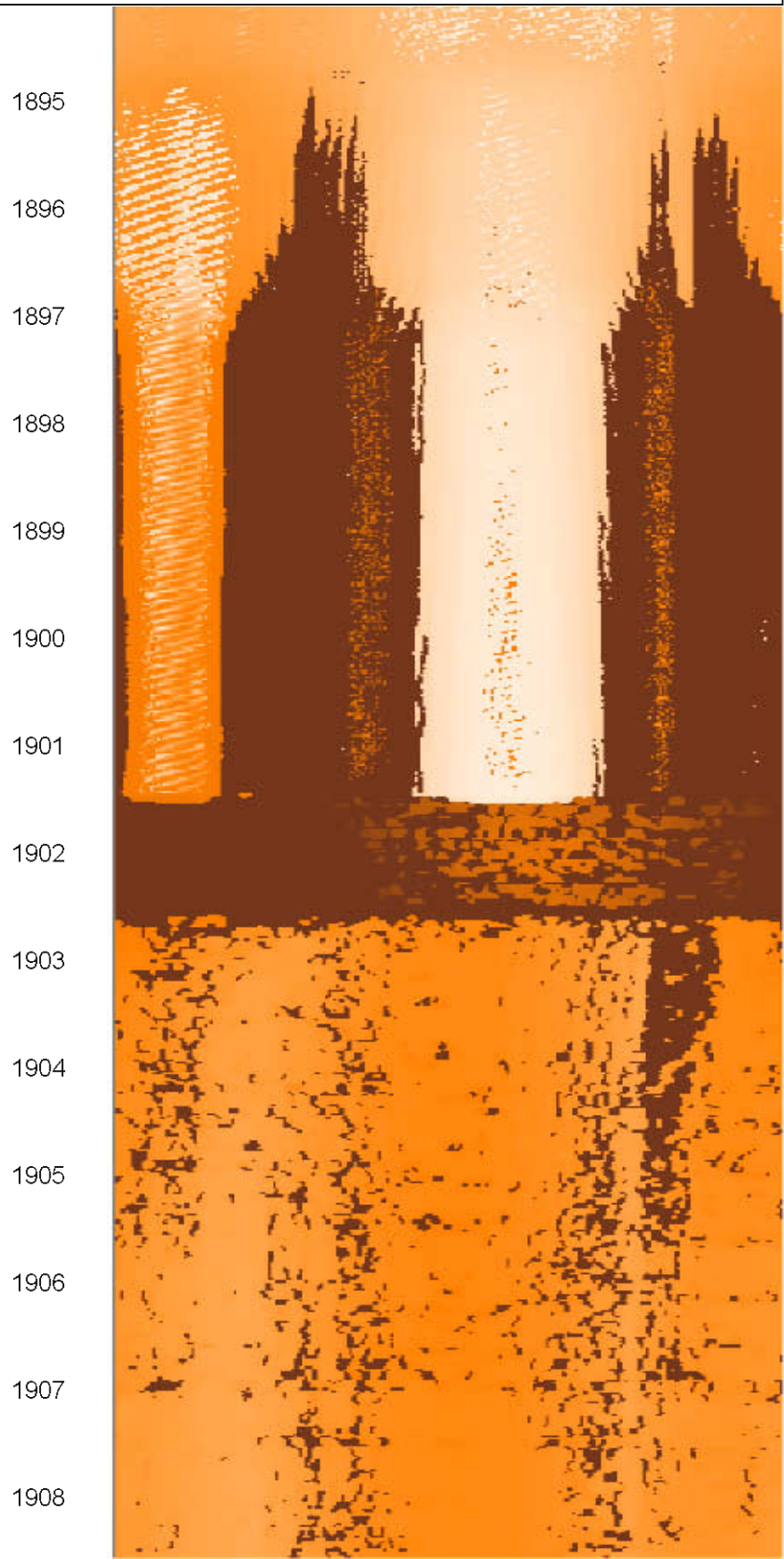
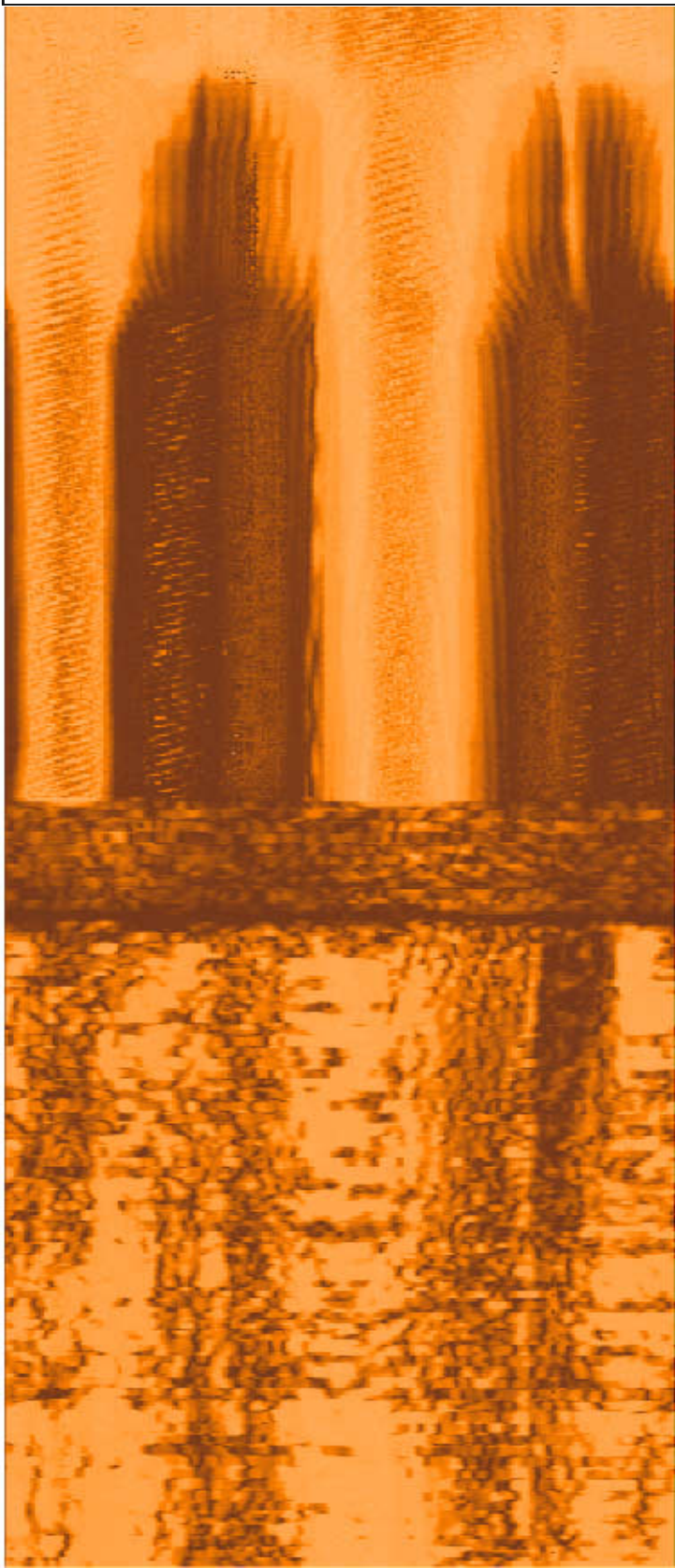


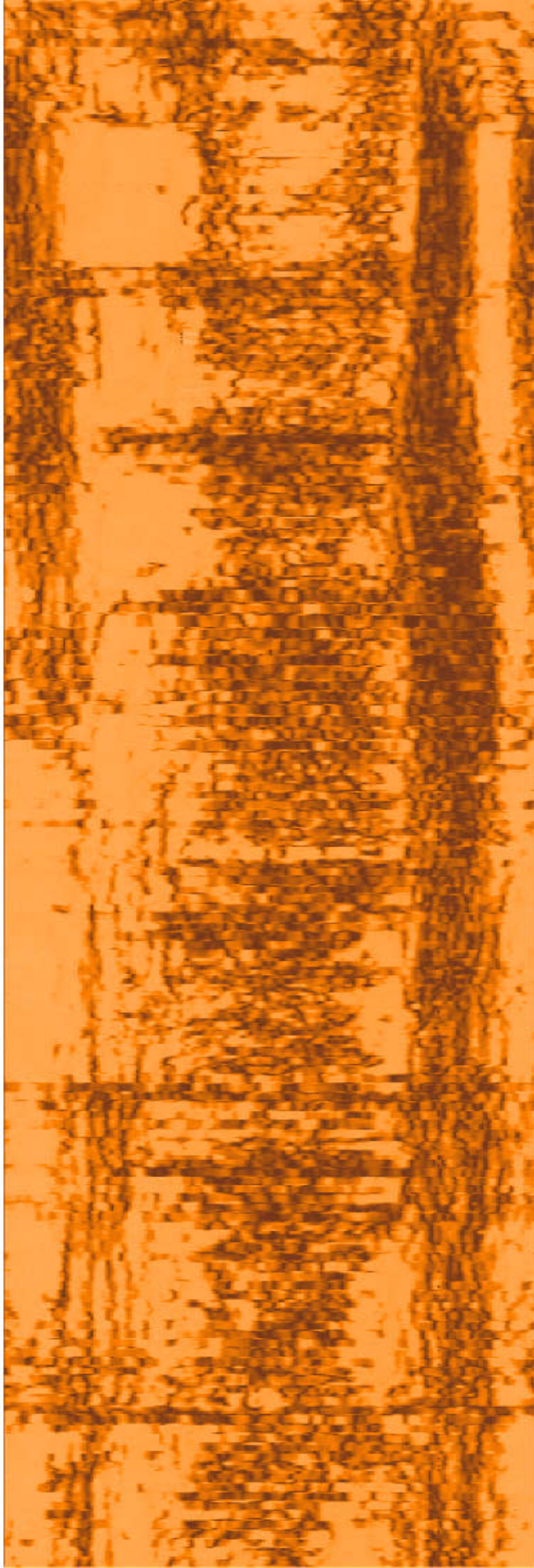
**YOUNGQUIST
BROTHERS, Inc**

MAIN PASS

Database File:	hiamwbhtv.db
Dataset Pathname:	run8/pass3
Presentation Format:	mwscan2
Dataset Creation:	Sat Apr 24 11:47:32 2010 by Log Open-Cased 090629
Charted by:	Depth in Feet scaled 1:20

1	AMPMAP	256	1	TMAP	256
0		3	100		315





1909

1910

1911

1912

1913

1914

1915

1916

1917

1918

1919

1920

1921

1922

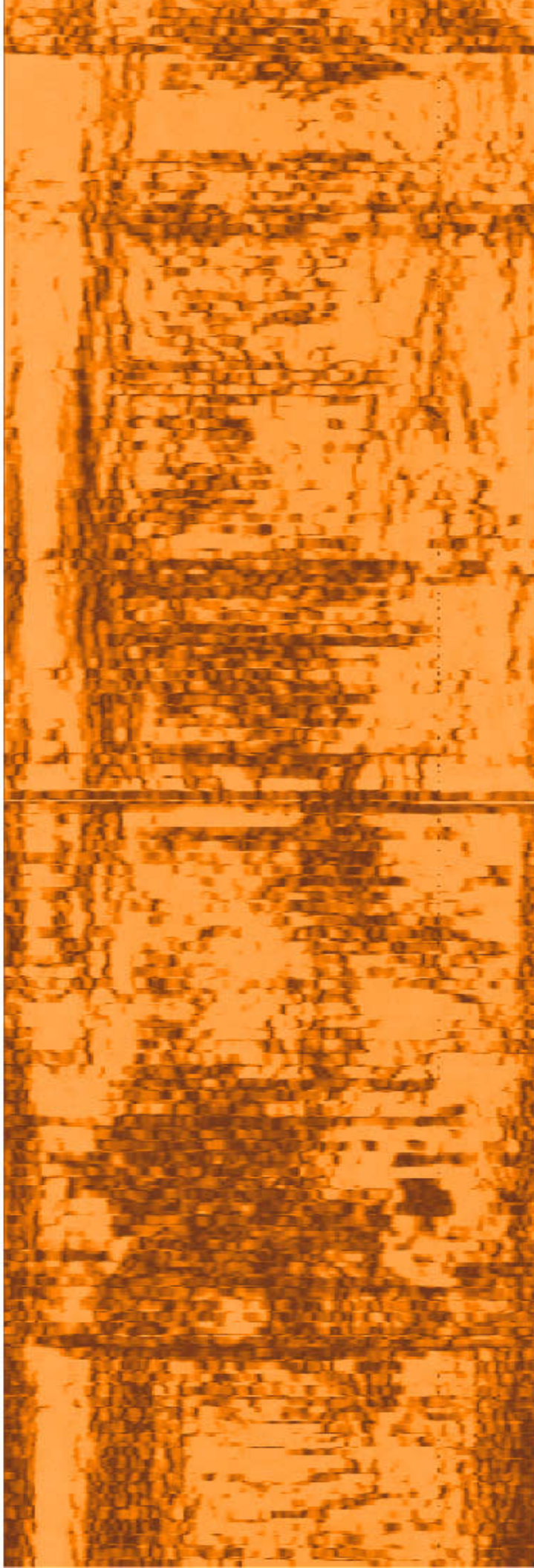
1923

1924

1925

1926





1927

1928

1929

1930

1931

1932

1933

1934

1935

1936

1937

1938

1939

1940

1941

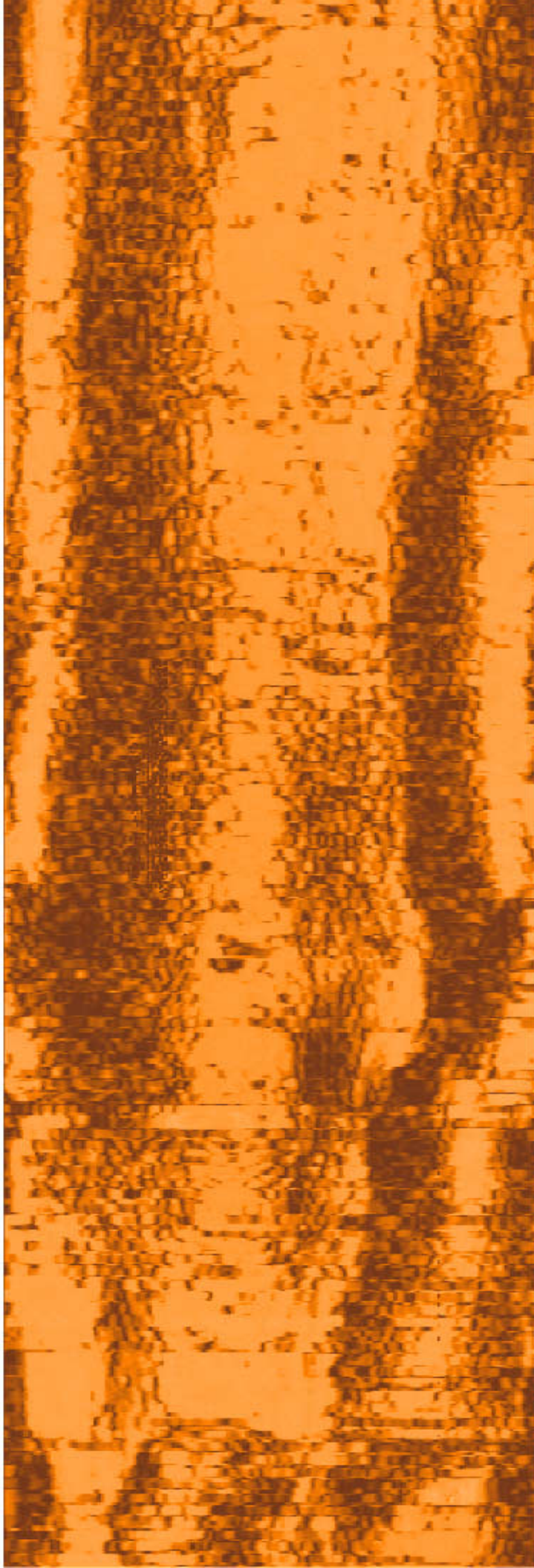
1942

1943

1944

1945





1946

1947

1948

1949

1950

1951

1952

1953

1954

1955

1956

1957

1958

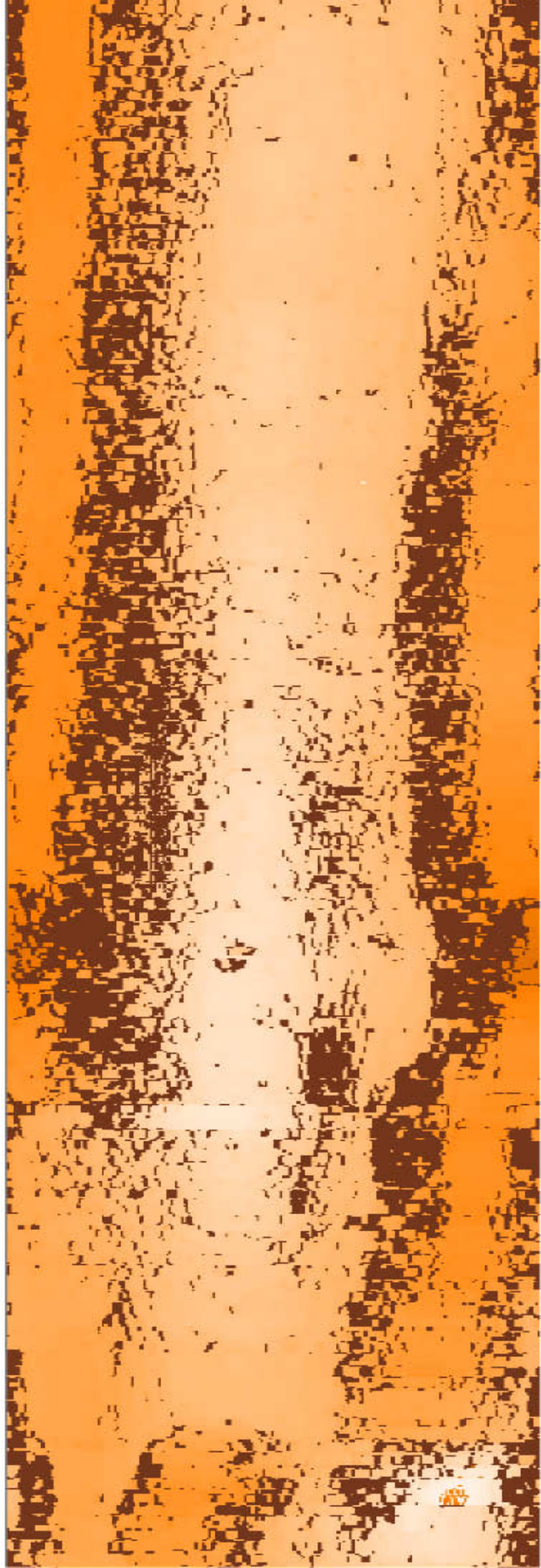
1959

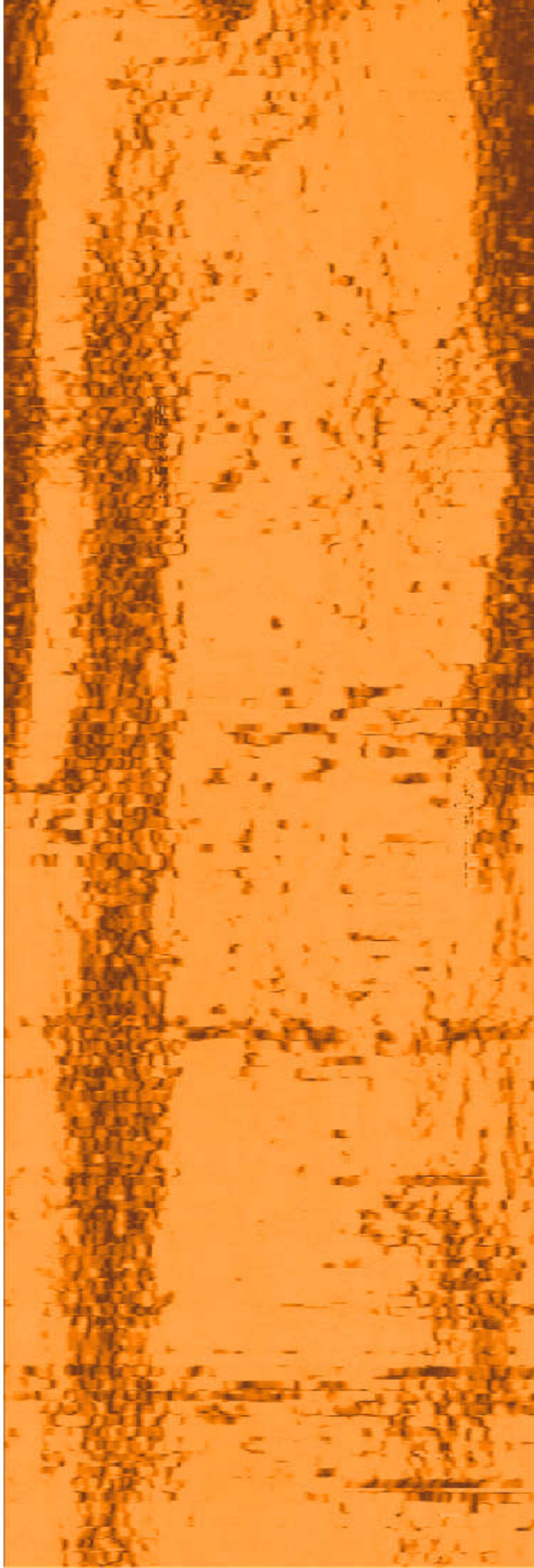
1960

1961

1962

1963





1964

1965

1966

1967

1968

1969

1970

1971

1972

1973

1974

1975

1976

1977

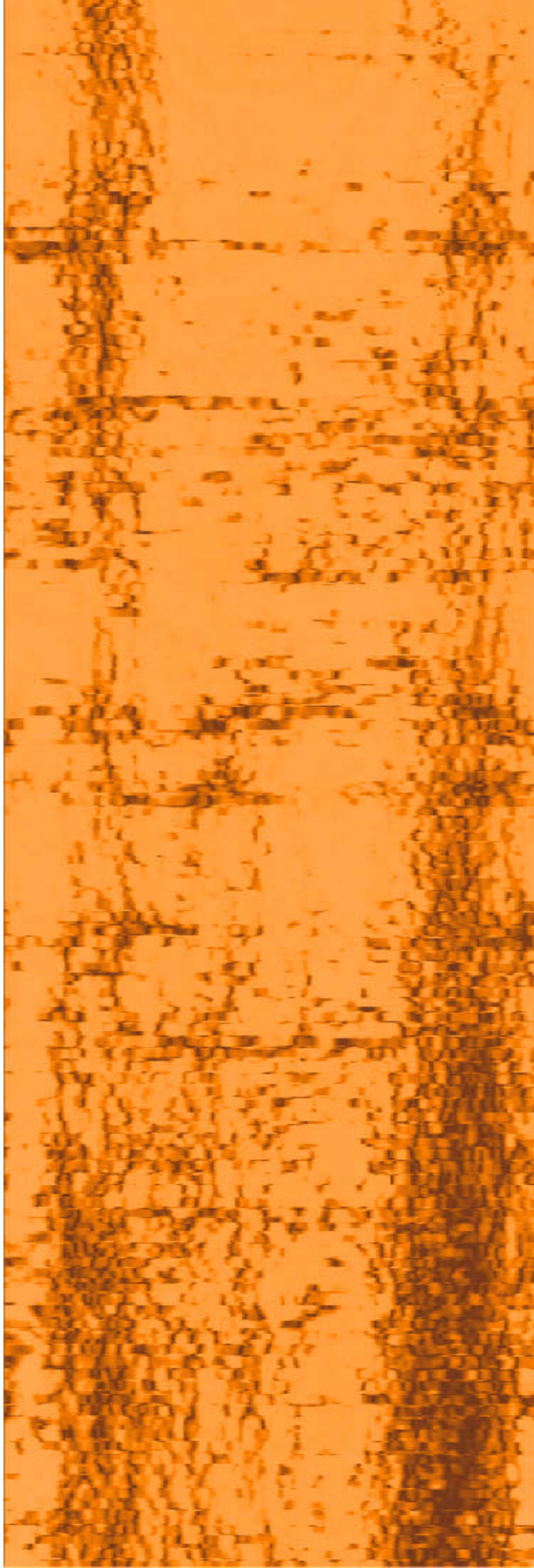
1978

1979

1980

1981





1982

1983

1984

1985

1986

1987

1988

1989

1990

1991

1992

1993

1994

1995

1996

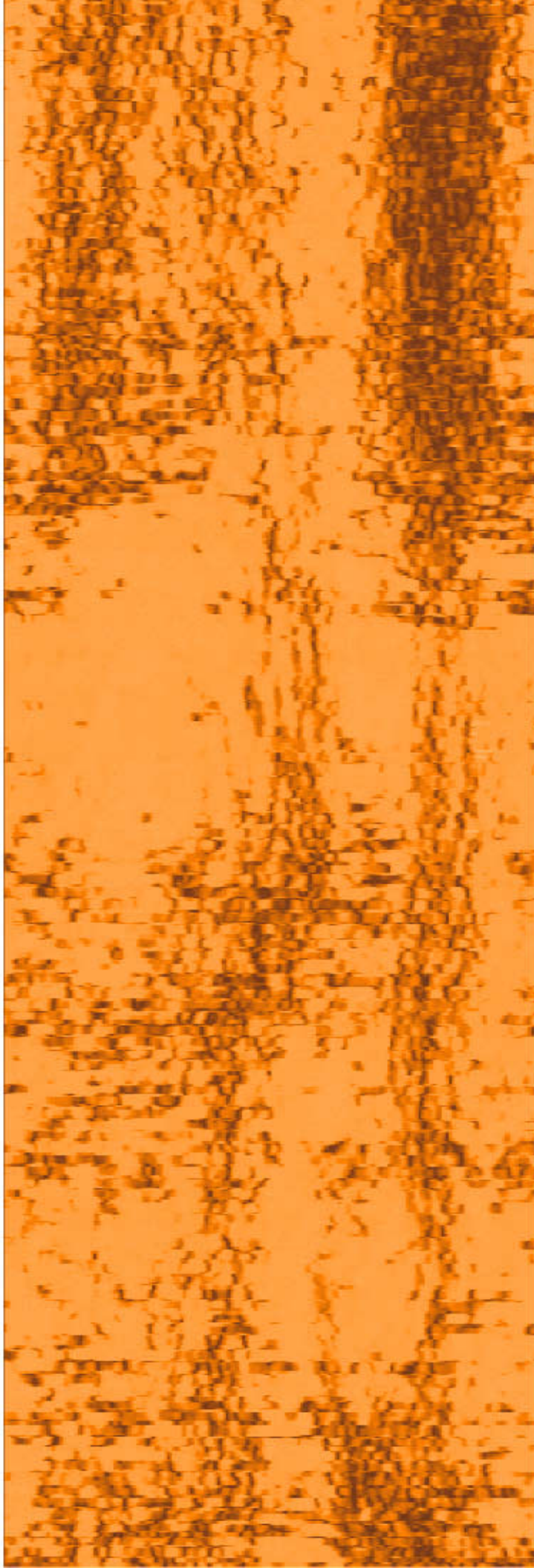
1997

1998

1999

2000





2001

2002

2003

2004

2005

2006

2007

2008

2009

2010

2011

2012

2013

2014

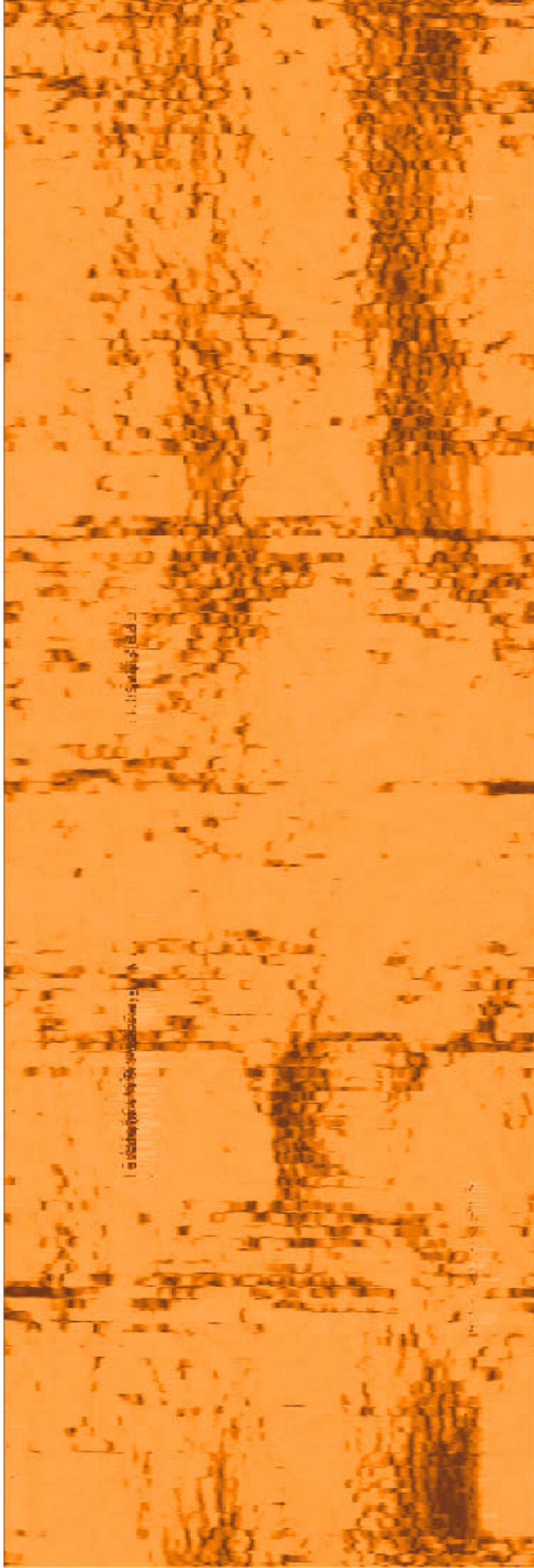
2015

2016

2017

2018





2019

2020

2021

2022

2023

2024

2025

2026

2027

2028

2029

2030

2031

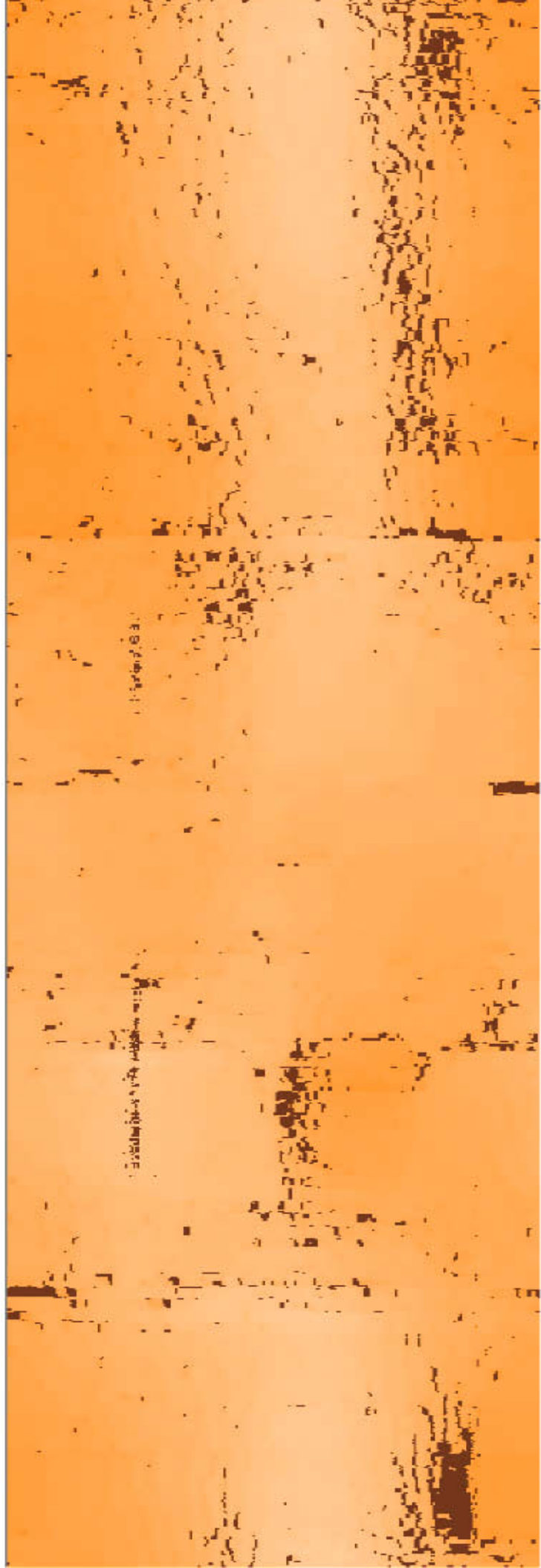
2032

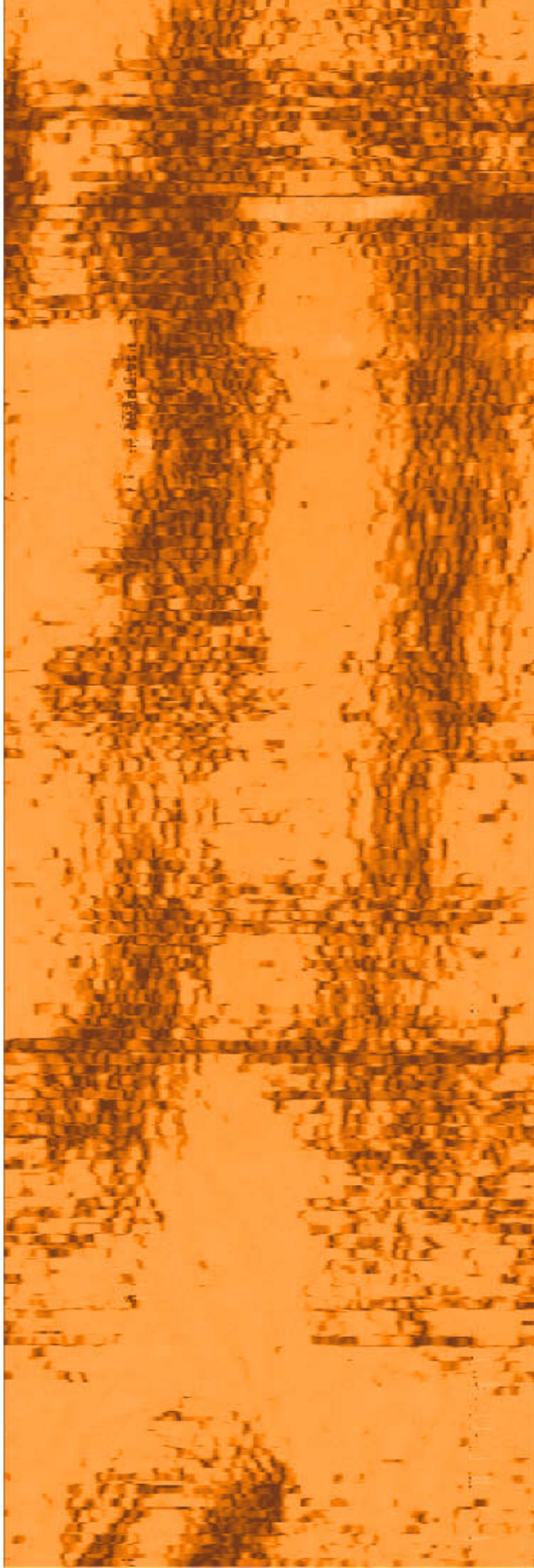
2033

2034

2035

2036





2037

2038

2039

2040

2041

2042

2043

2044

2045

2046

2047

2048

2049

2050

2051

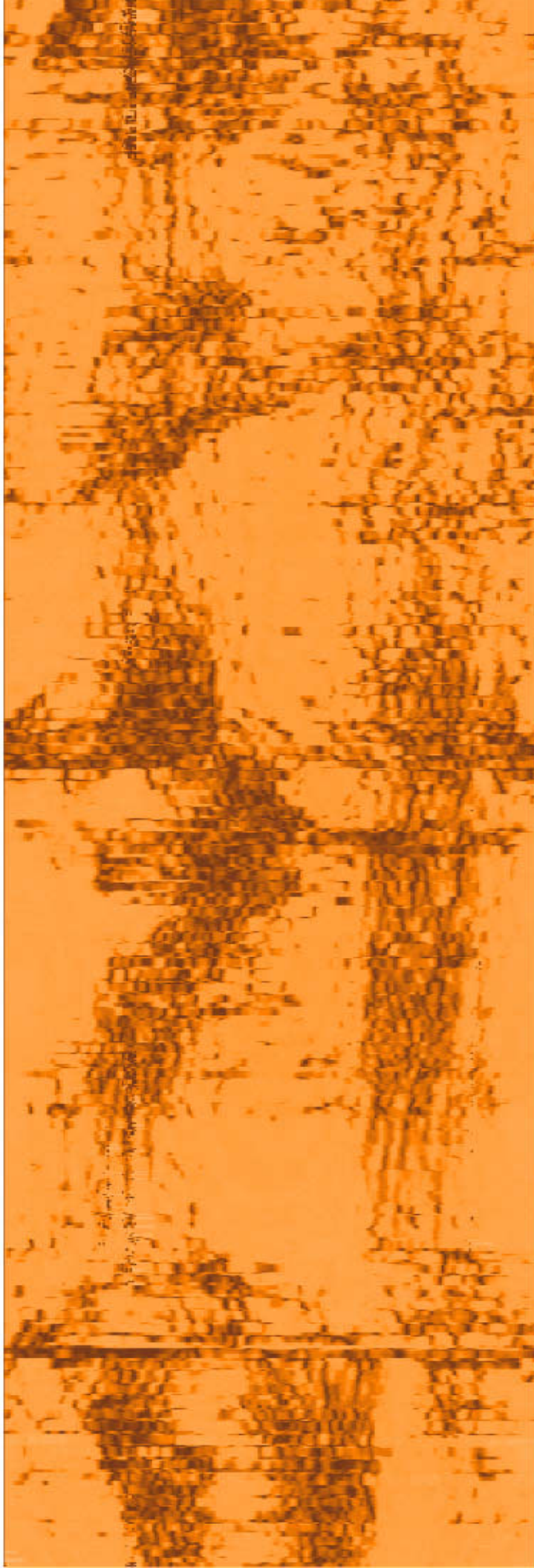
2052

2053

2054

2055





2056

2057

2058

2059

2060

2061

2062

2063

2064

2065

2066

2067

2068

2069

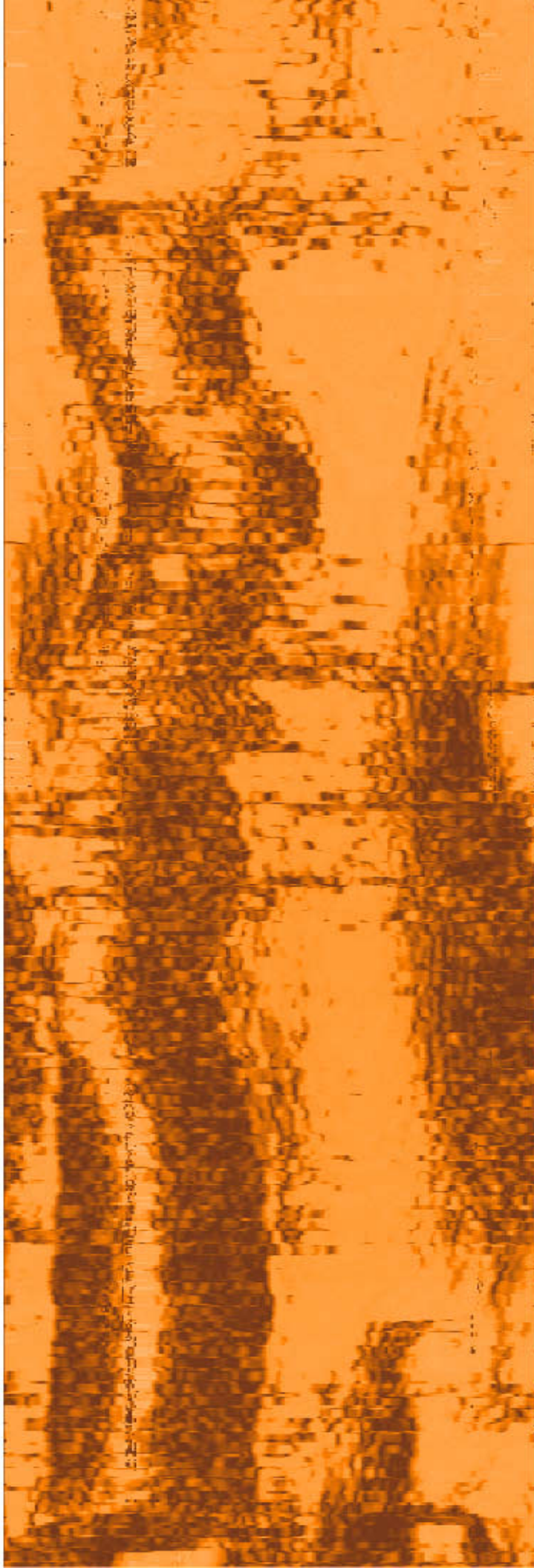
2070

2071

2072

2073





2074

2075

2076

2077

2078

2079

2080

2081

2082

2083

2084

2085

2086

2087

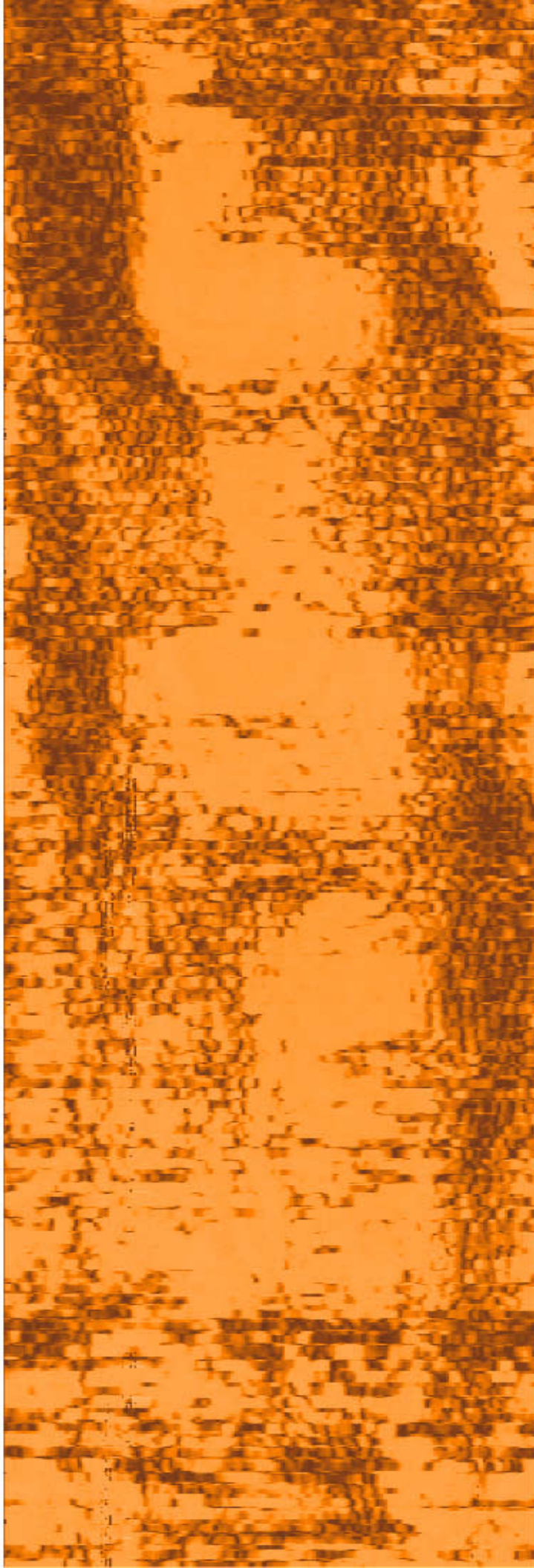
2088

2089

2090

2091





2092

2093

2094

2095

2096

2097

2098

2099

2100

2101

2102

2103

2104

2105

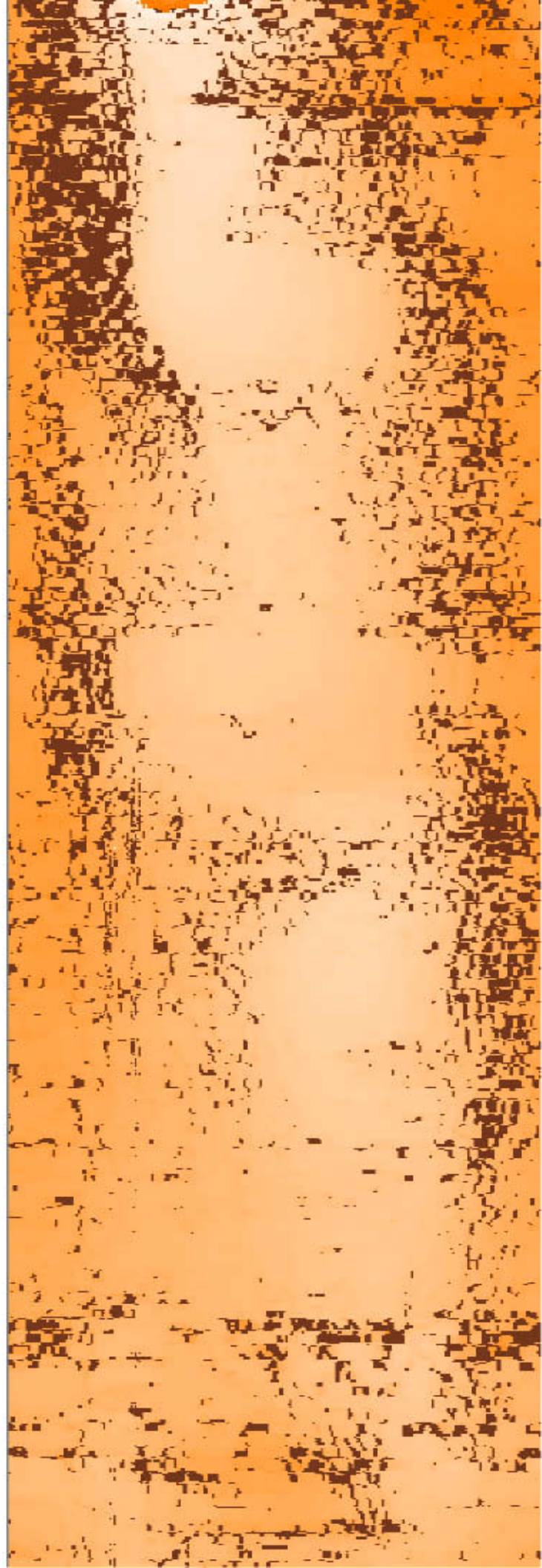
2106

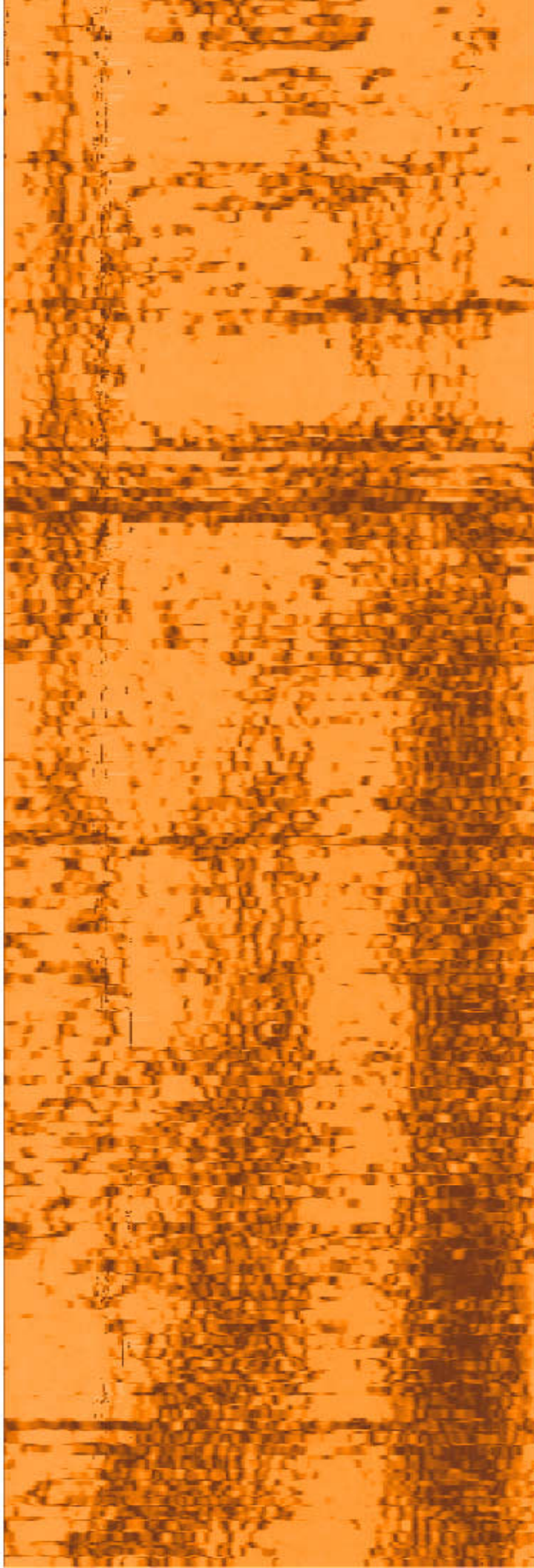
2107

2108

2109

2110





2111

2112

2113

2114

2115

2116

2117

2118

2119

2120

2121

2122

2123

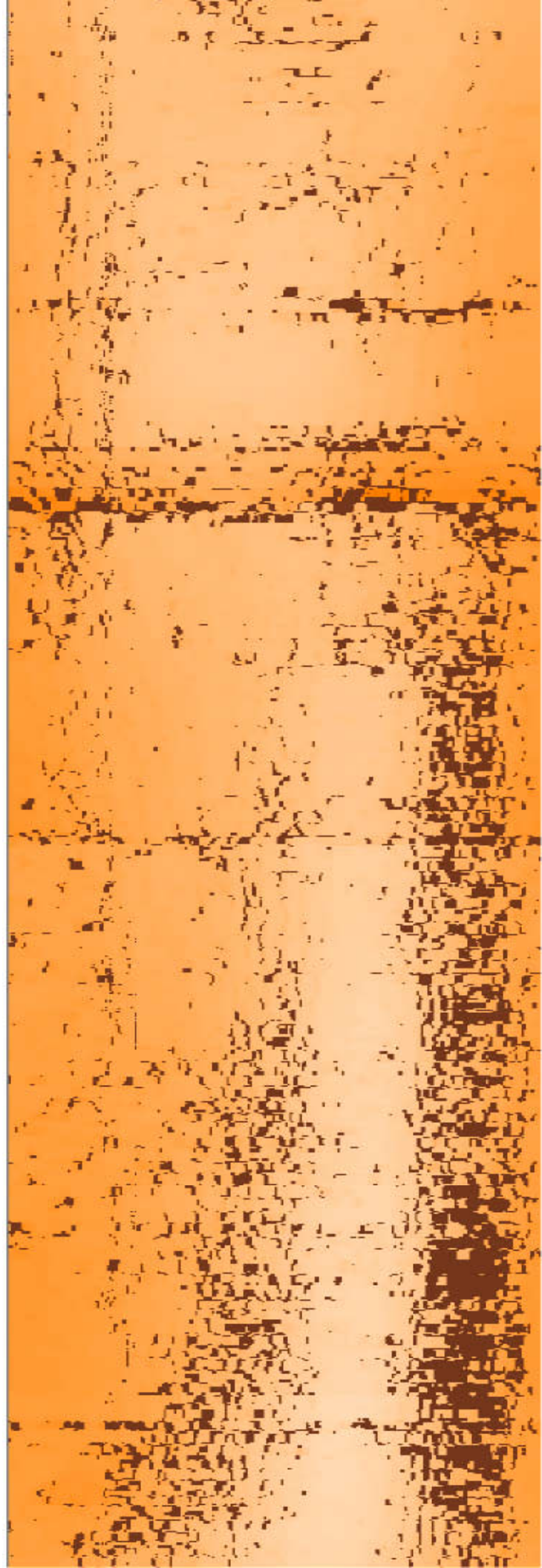
2124

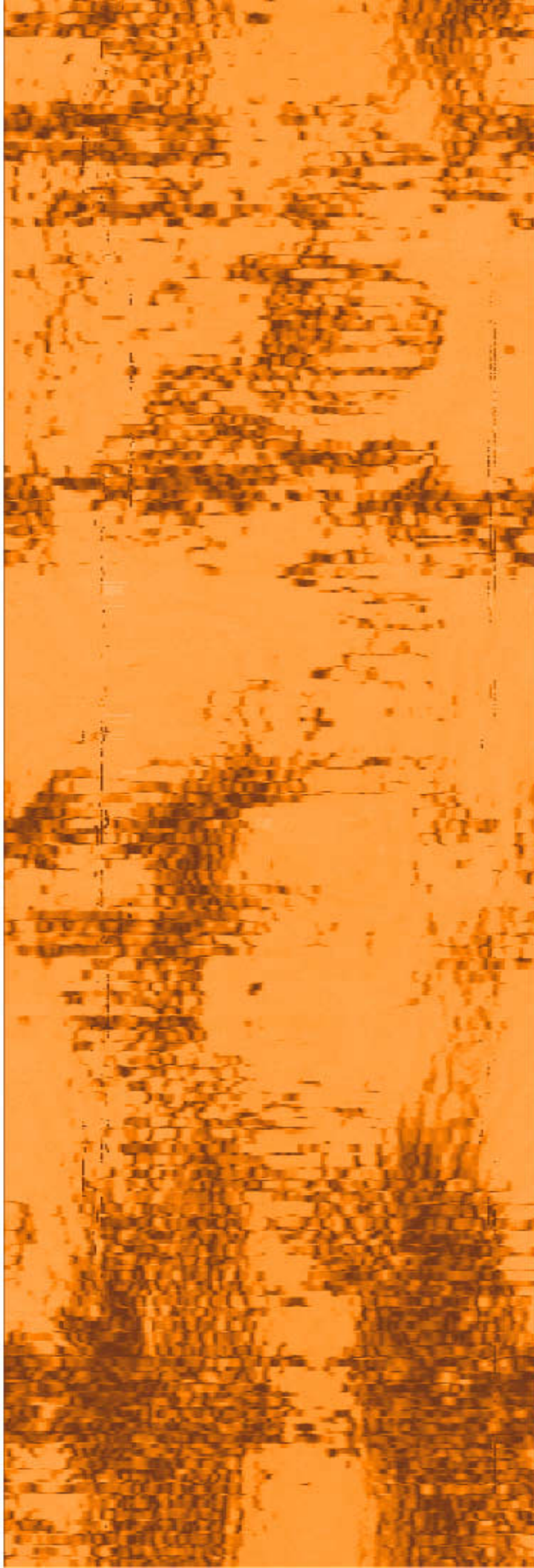
2125

2126

2127

2128





2129

2130

2131

2132

2133

2134

2135

2136

2137

2138

2139

2140

2141

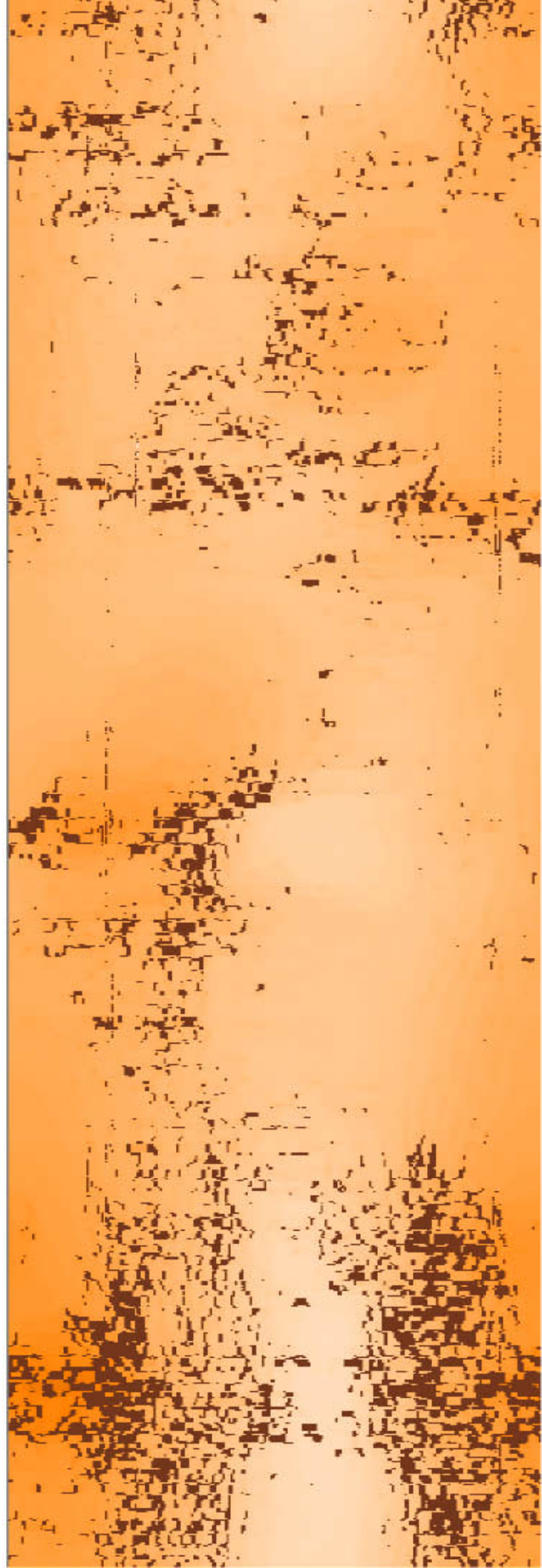
2142

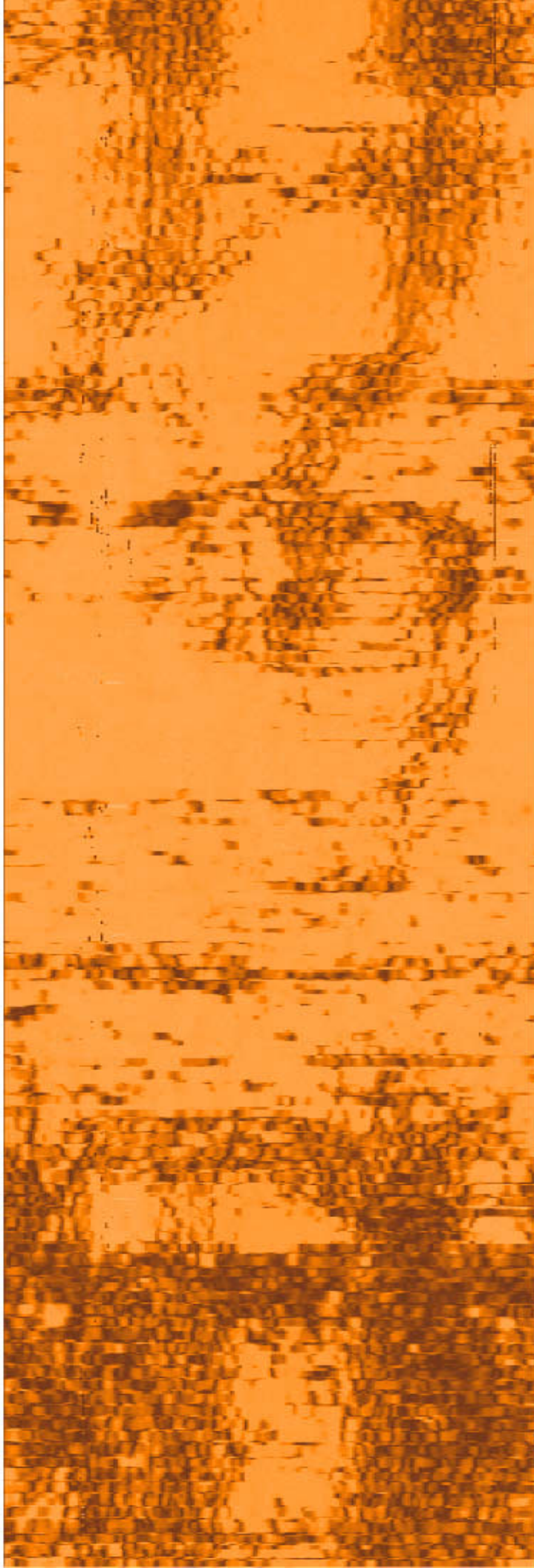
2143

2144

2145

2146





2147

2148

2149

2150

2151

2152

2153

2154

2155

2156

2157

2158

2159

2160

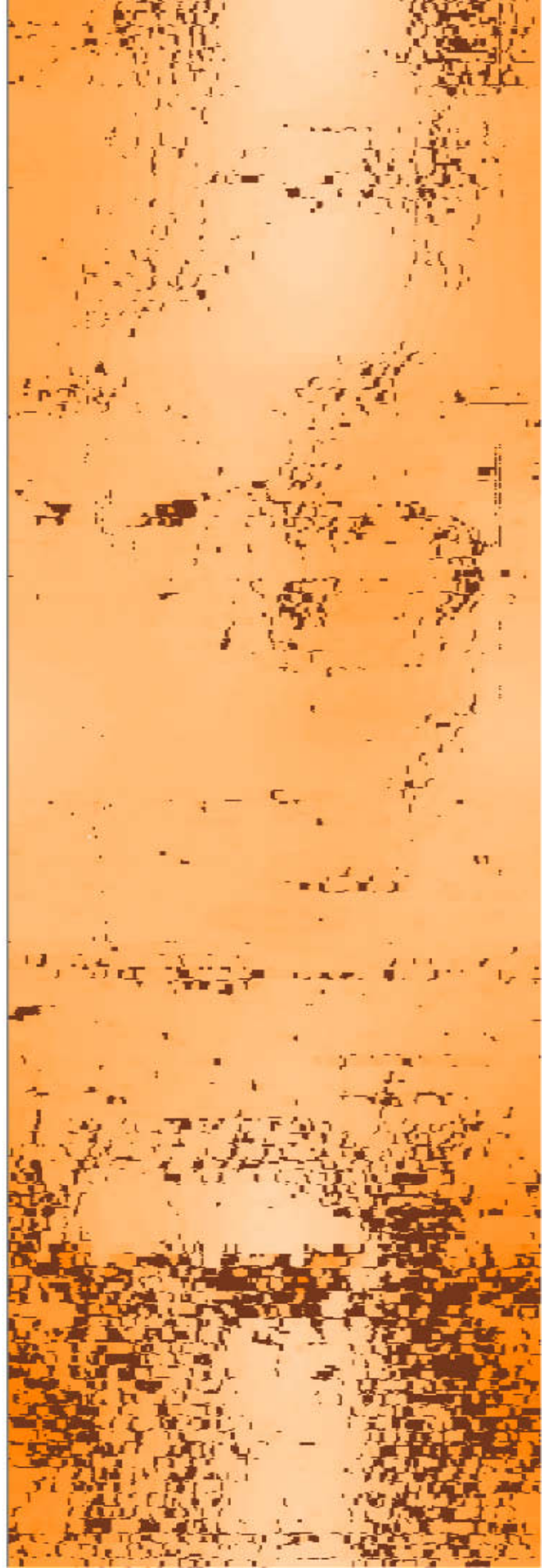
2161

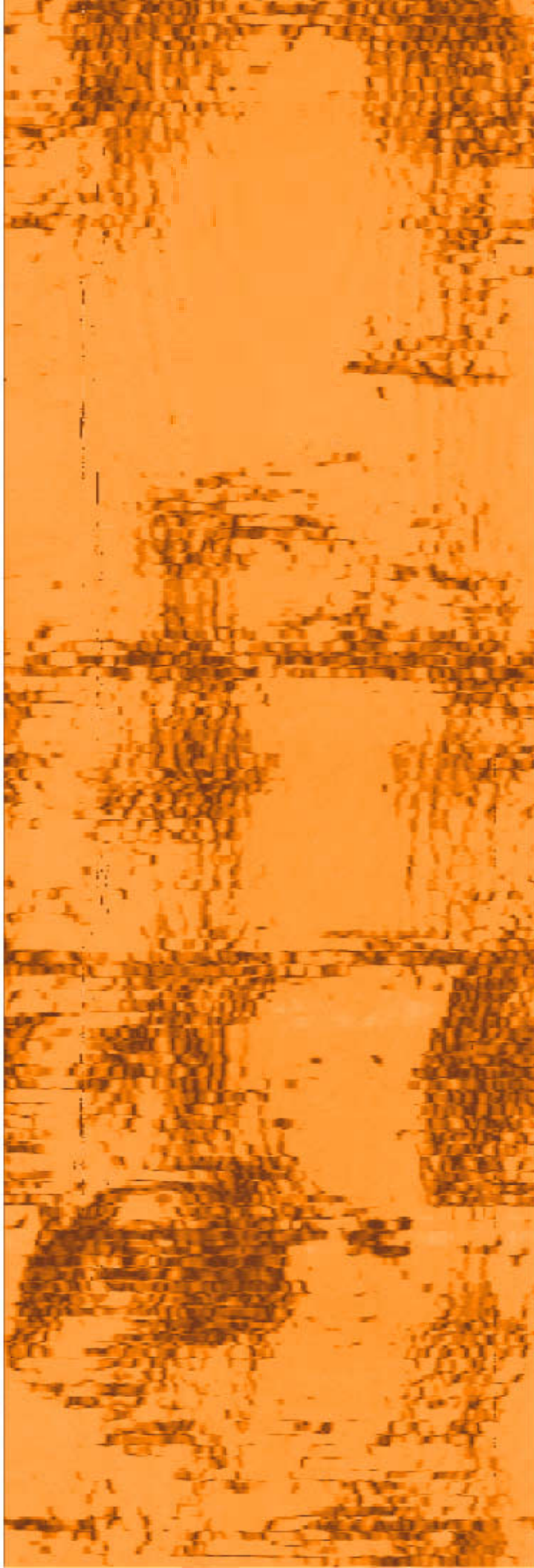
2162

2163

2164

2165





2166

2167

2168

2169

2170

2171

2172

2173

2174

2175

2176

2177

2178

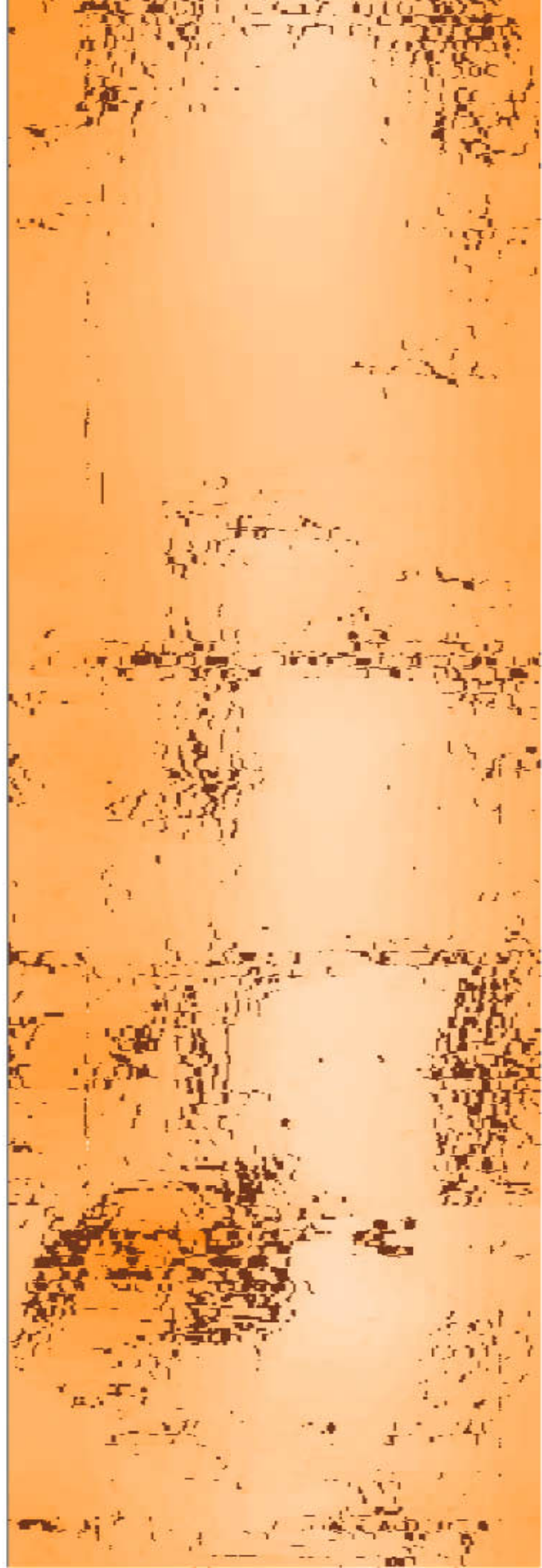
2179

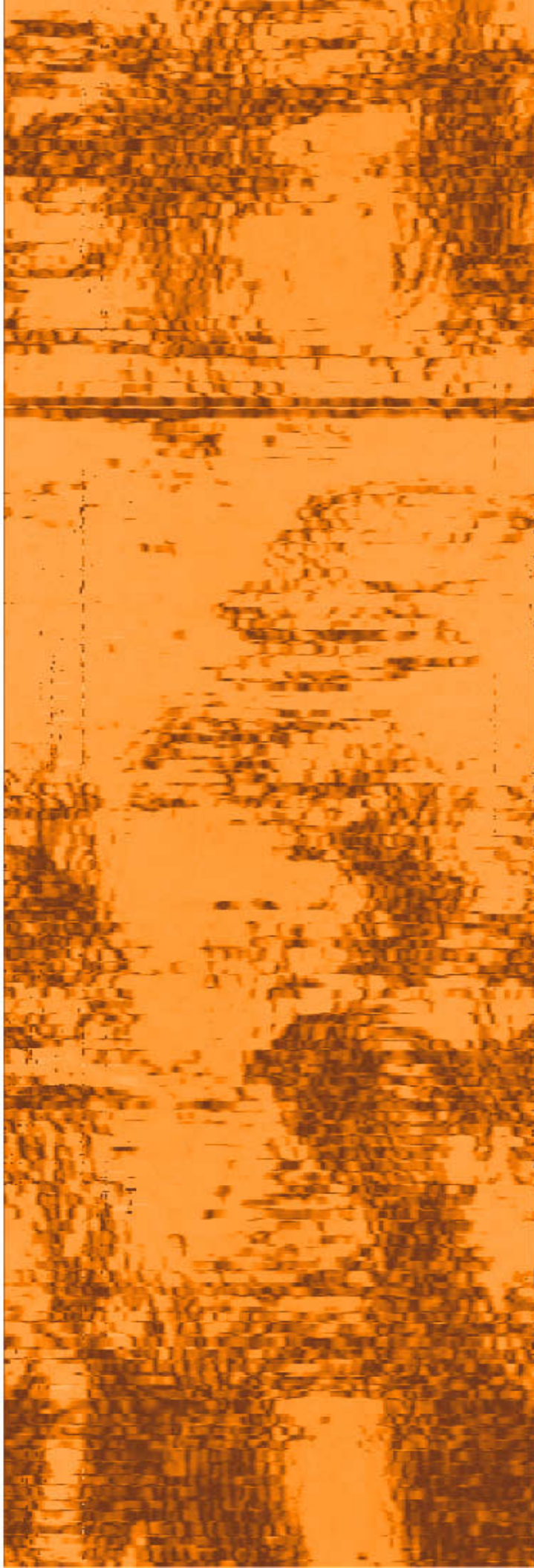
2180

2181

2182

2183





2184

2185

2186

2187

2188

2189

2190

2191

2192

2193

2194

2195

2196

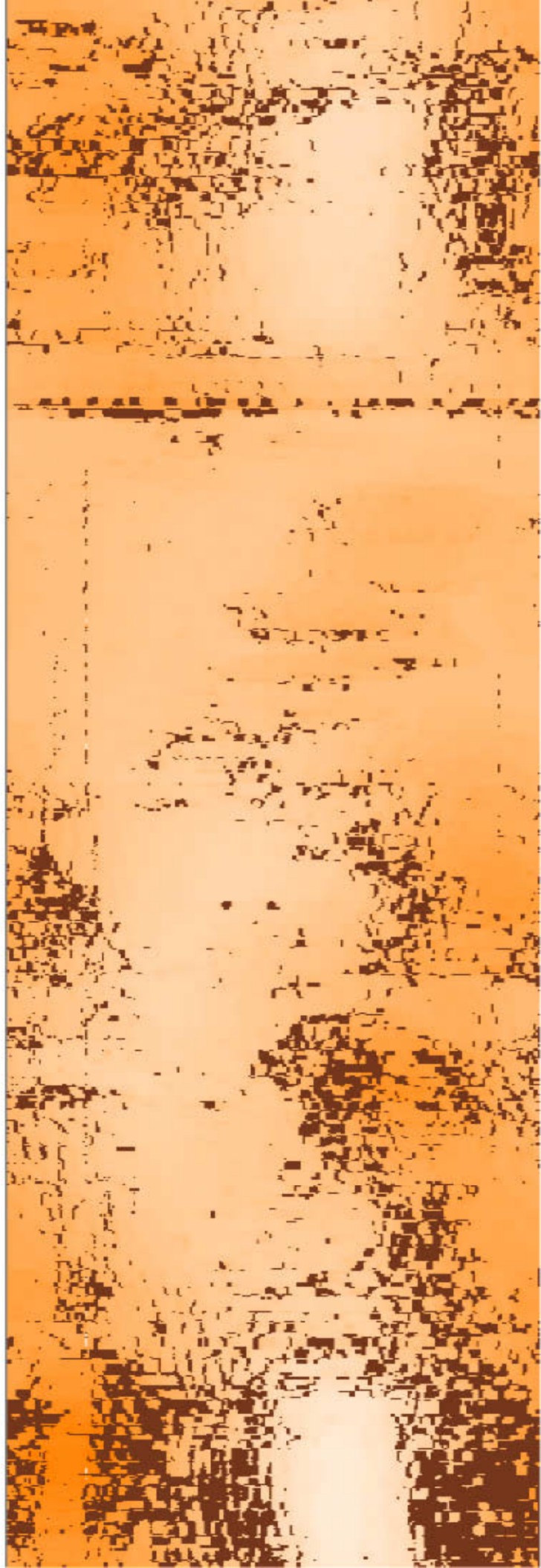
2197

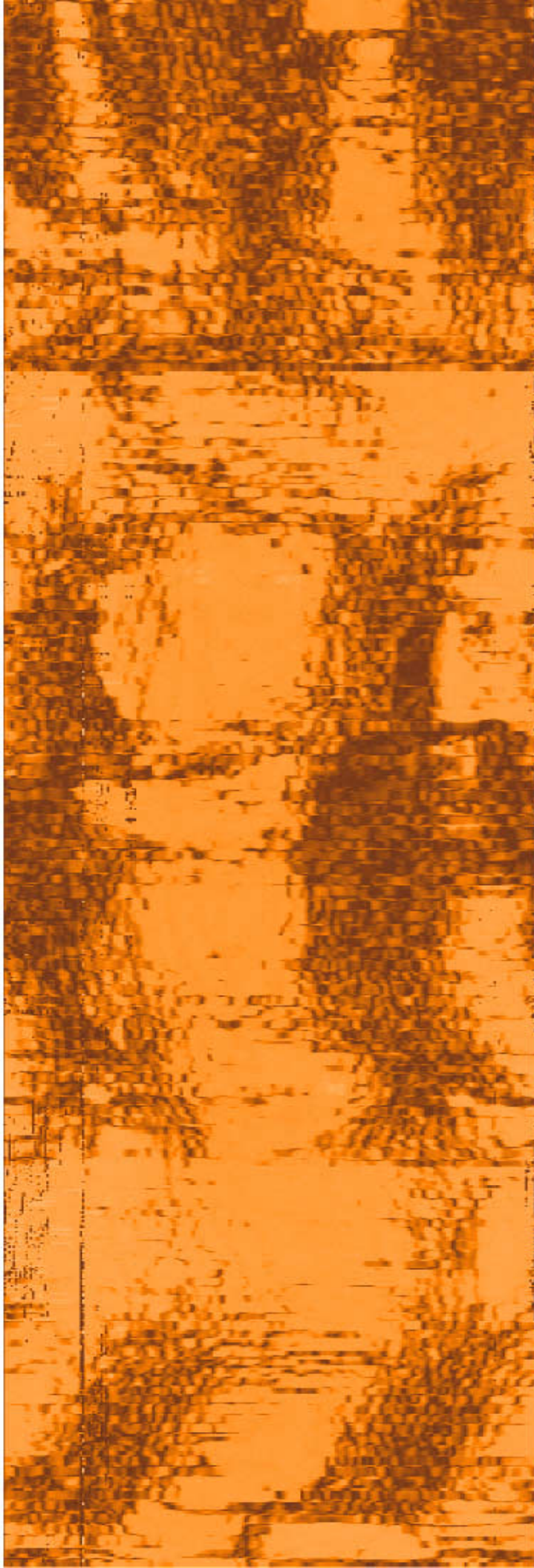
2198

2199

2200

2201





2202

2203

2204

2205

2206

2207

2208

2209

2210

2211

2212

2213

2214

2215

2216

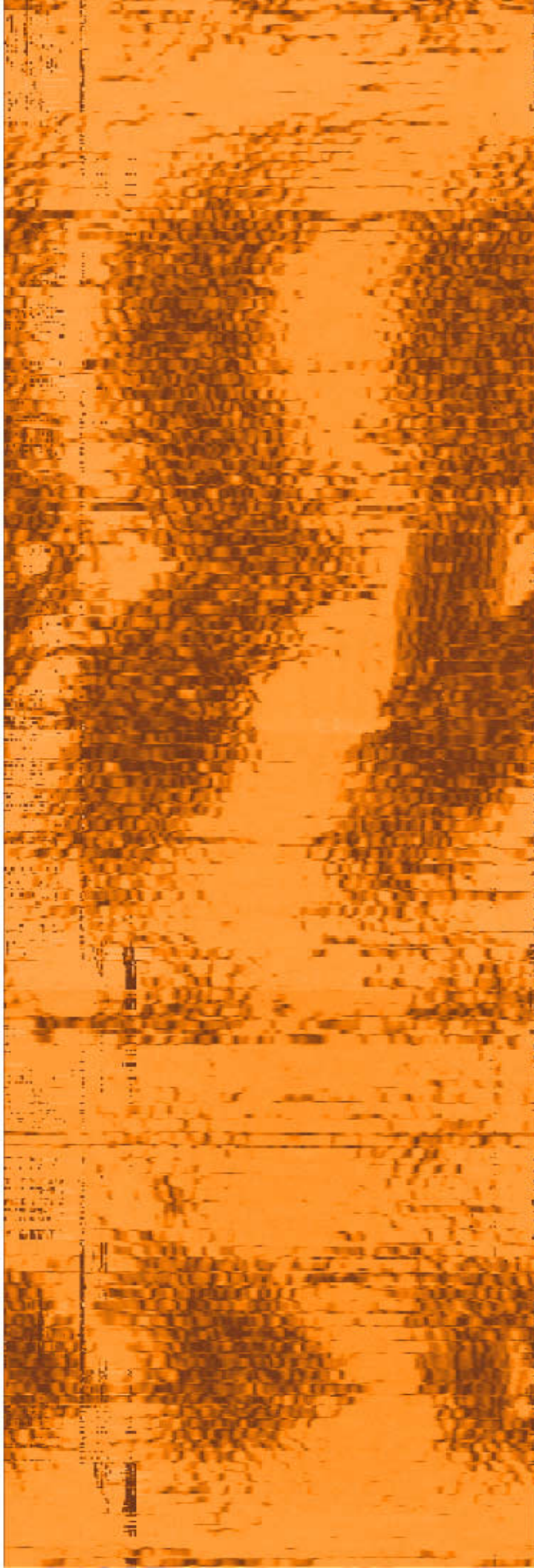
2217

2218

2219

2220





2221

2222

2223

2224

2225

2226

2227

2228

2229

2230

2231

2232

2233

2234

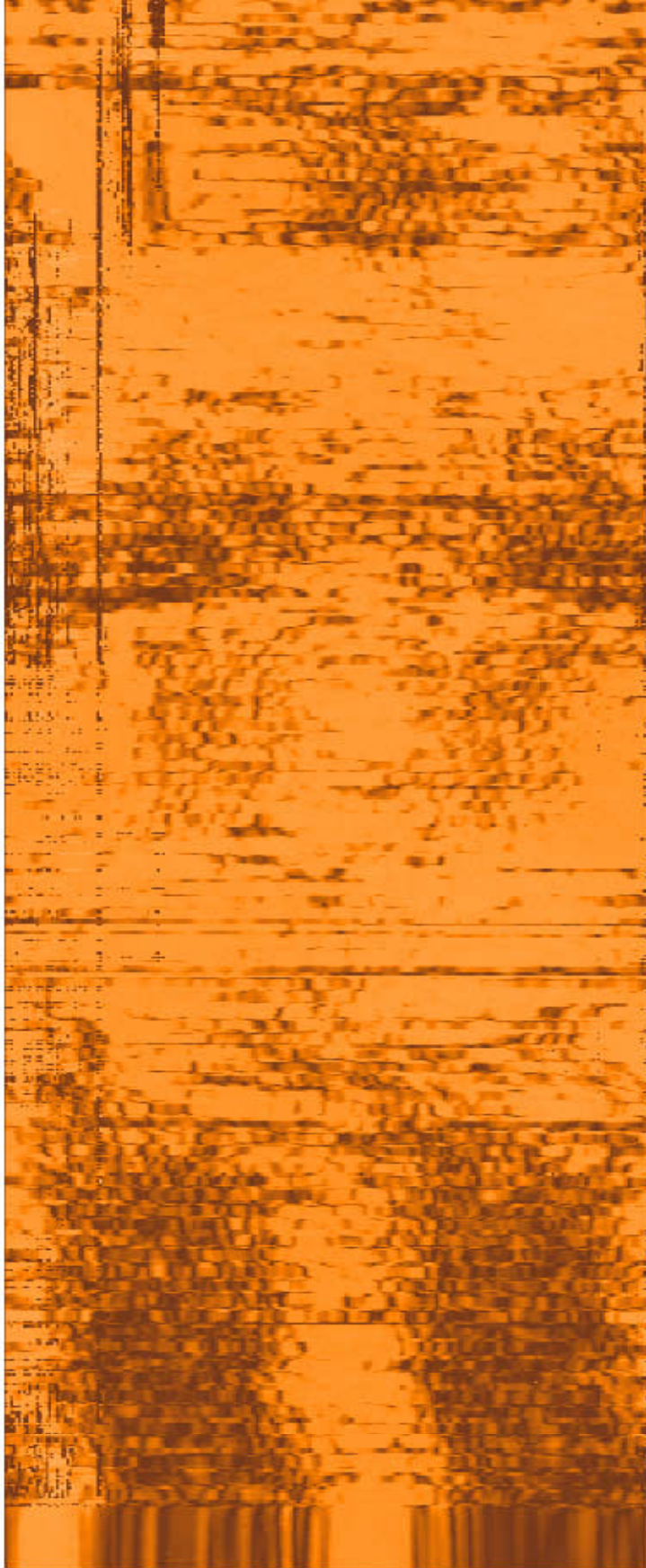
2235

2236

2237

2238





2239

2240

2241

2242

2243

2244

2245

2246

2247

2248

2249

2250

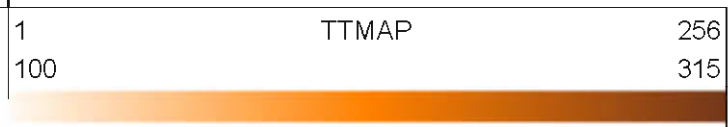
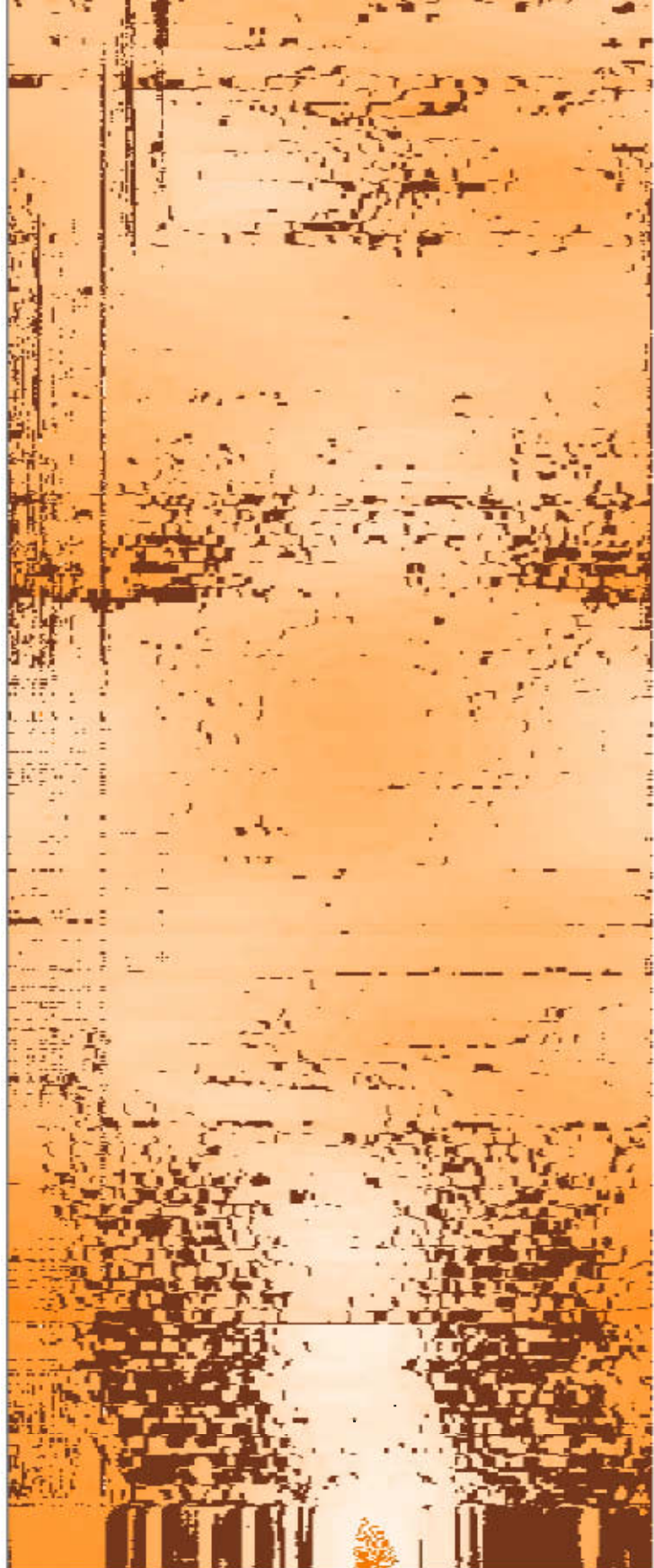
2251

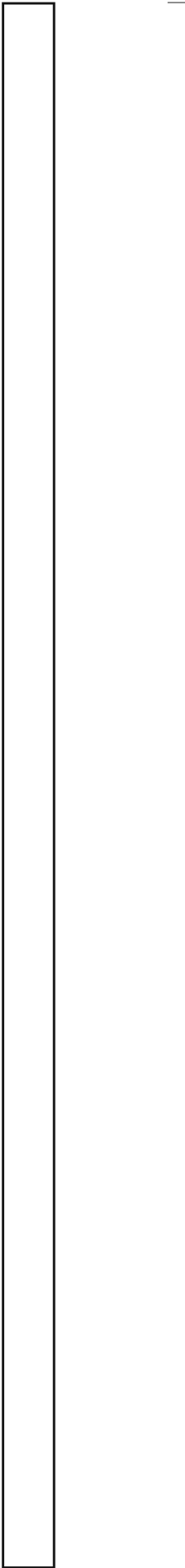
2252

2253

2254

2255



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			MWScan-A (2) MW Scanner Tool	9.75	3.50	225.00
WvfMon	1.50					
WvfScan	1.50					
TTScan	1.50					
AmpScan	1.50					
Aux1	1.50					
RotmS	0.83					
LOCTIM	0.00					

Dataset: hiamwbhtv.db: field/well/run8/pass3

Total Length: 9.75 ft

Total Weight: 225.00 lb

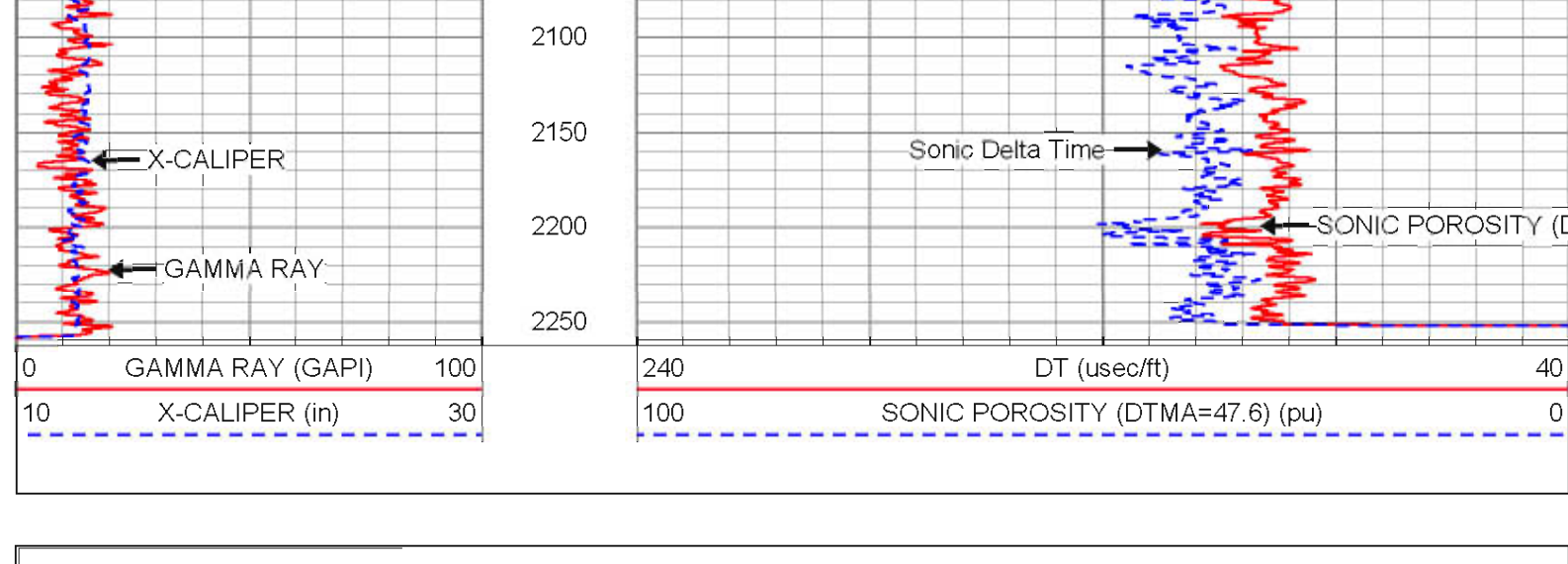
Total Weight 22.95 lb
O.D. 3.50 in

[illegible]

Comments	

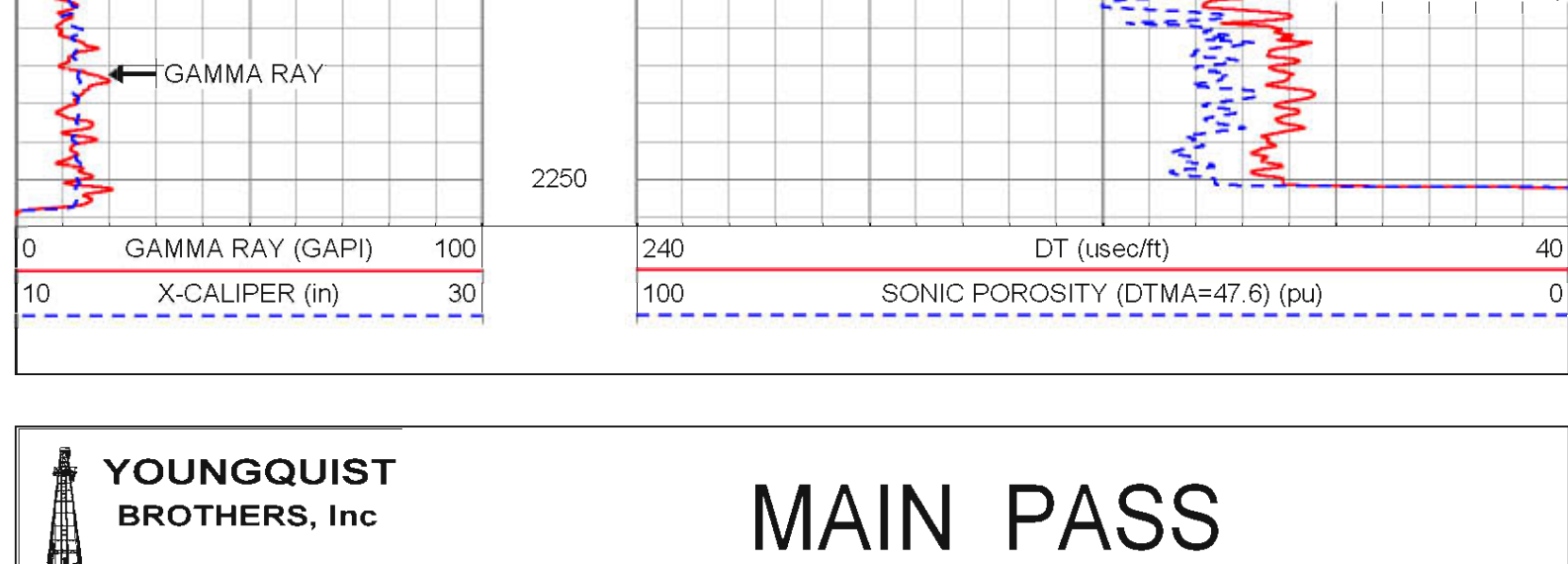
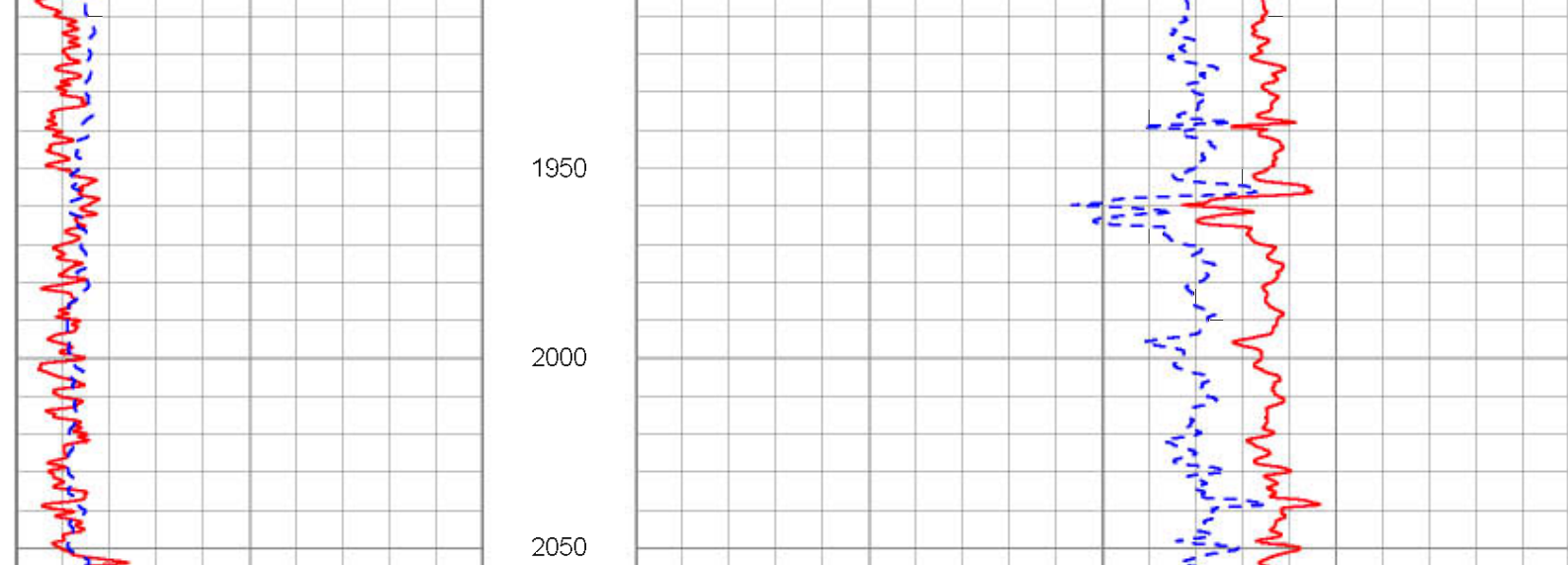
JUD CONDUCTIVITY/TEMP
 DUAL INDUCTION
 Y CALIPER/GAMMA RAY
 OREHOLE TELEVIEWER
 FLOW

MAIN P

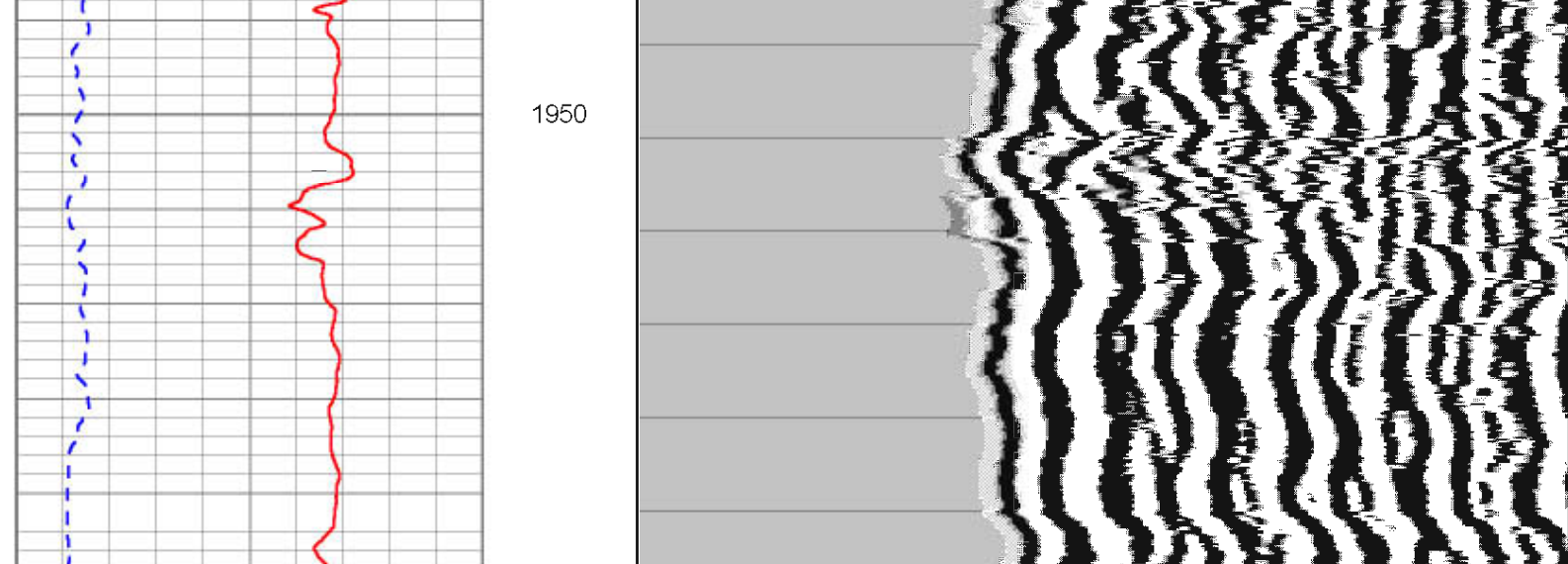
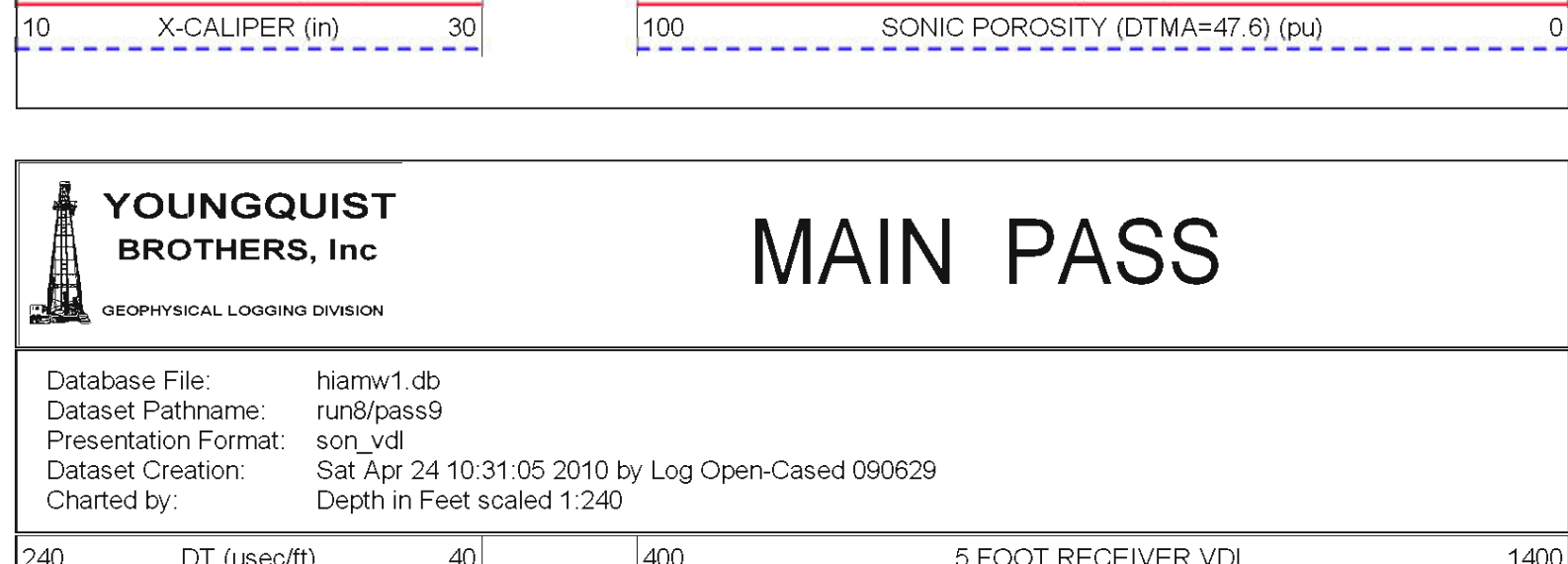
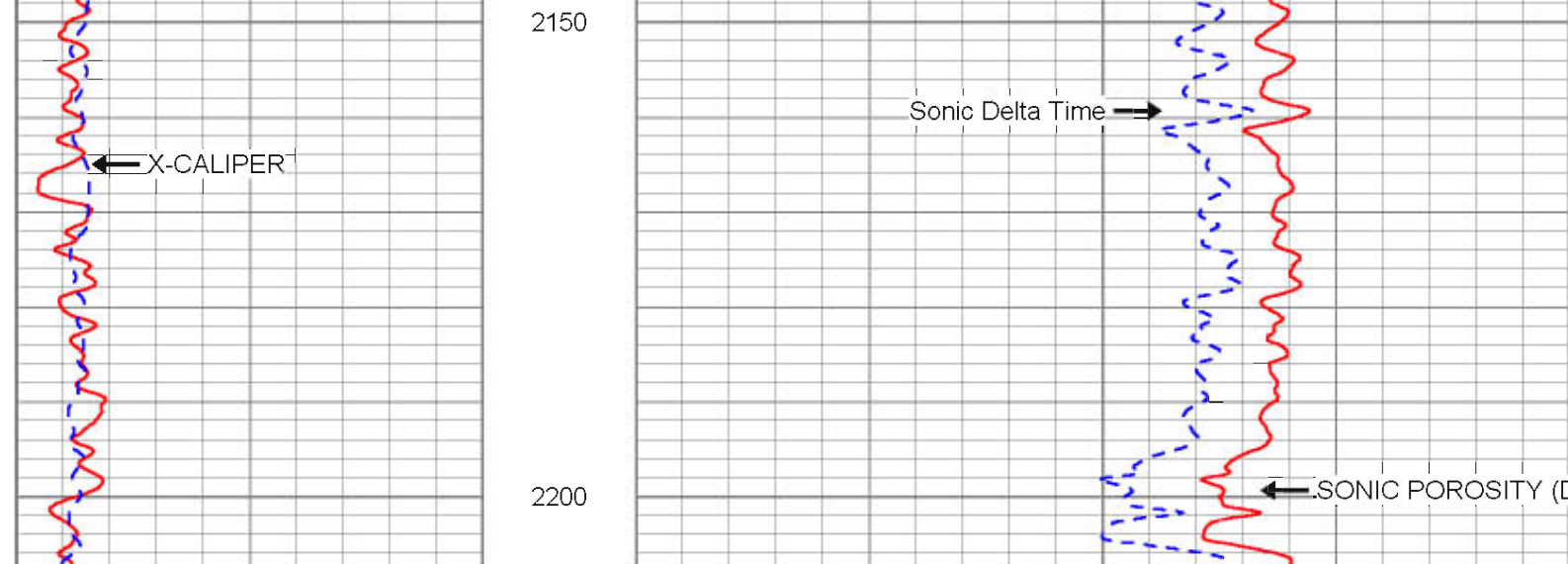
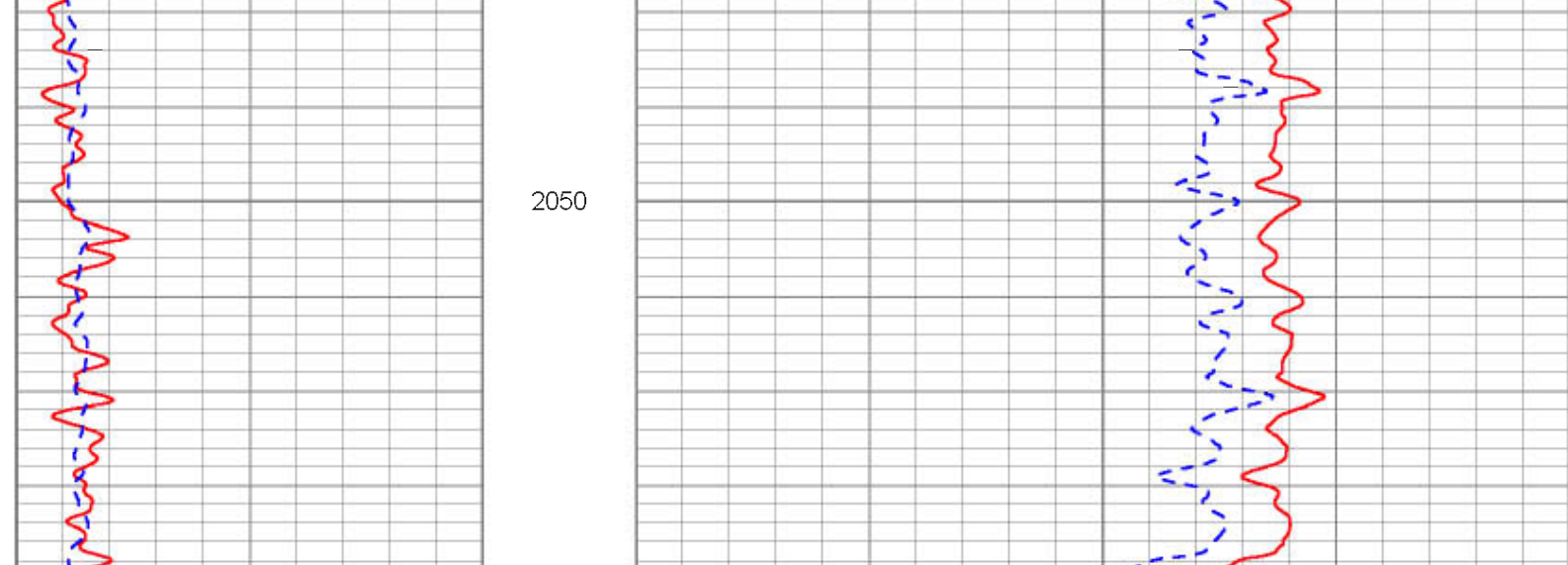
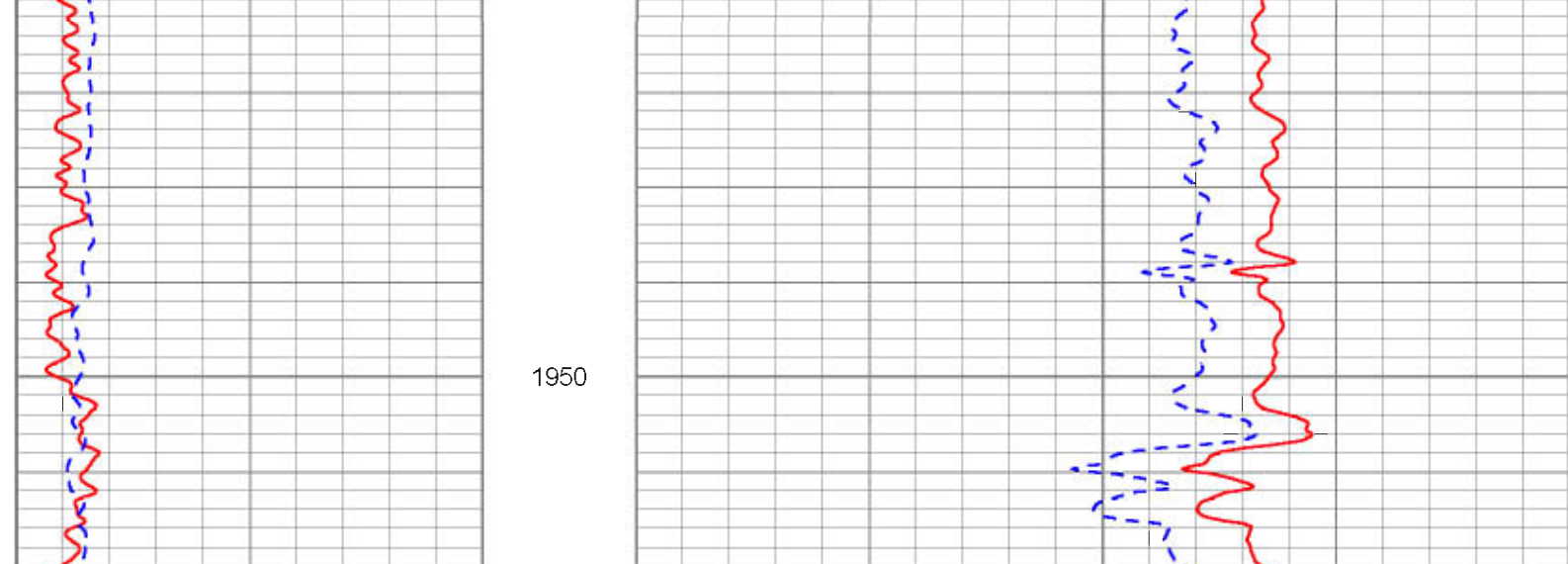


Database File: hiamw1.db
Dataset Pathname: run3/pass9
Presentation Format: son_por
Dataset Creation: Sat Apr 24 10:31:05 2010 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:600

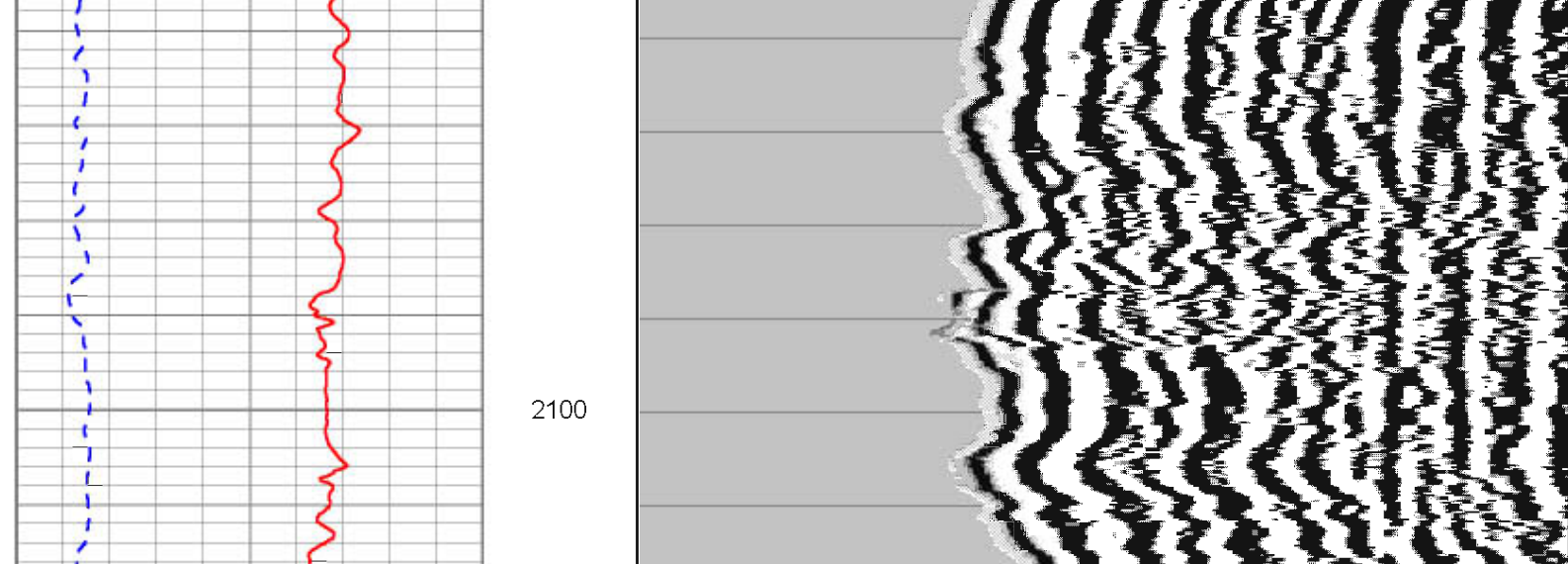
0	GAMMA RAY (GAPI)	100	240	D1 (UseCt)	40
10	X-CALIPER (in)	30	100	SONIC POROSITY (DTMA=47.6) (pu)	0



Charted by: Depth in Feet scaled 1:240					
0	GAMMA RAY (GAPI)	100	240	DT (usec/ft)	40
10	X-CALIPER (in)	30	100	SONIC POROSITY (DTMA=47.6) (pu)	0



The figure consists of two panels. The left panel shows a portion of a 2D lattice with a grid of squares. A vertical dashed blue line is on the left, and a wavy red line is on the right. The right panel shows a grayscale image of a wavy pattern, which is a representation of the lattice configuration.

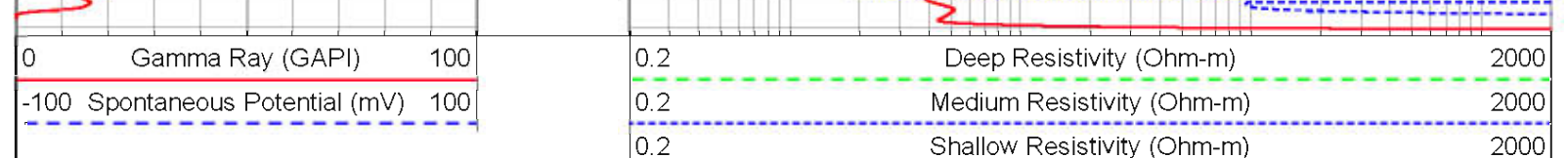
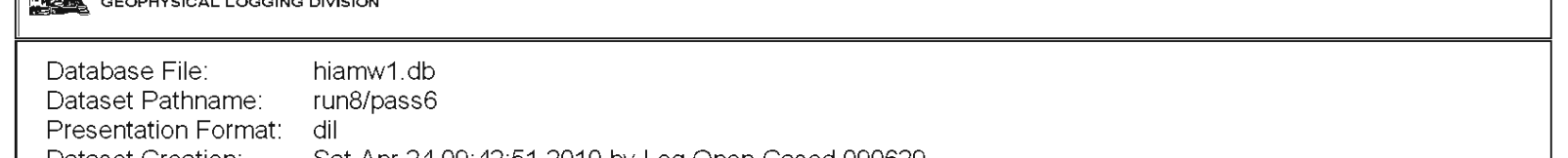


240	DT (usec/ft)	40	400	5 FOOT RECEIVER VDL	1400
-----	--------------	----	-----	---------------------	------

BOREHOLE TELEVIEWER
BOREHOLE SONIC
FLOW

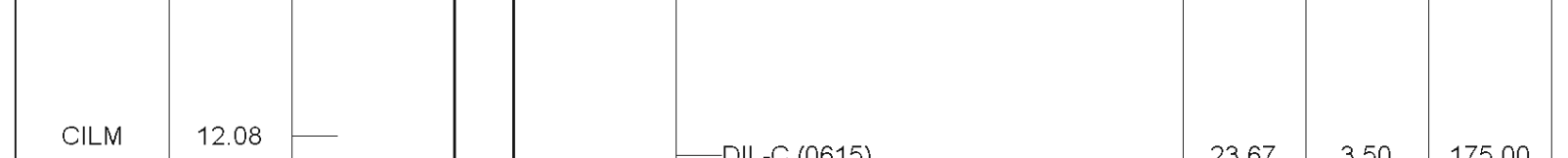
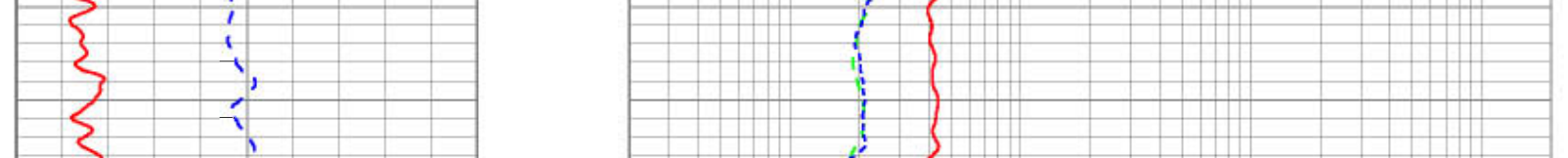
YOUNGQUIST BROTHERS, Inc	MAIN PASS
---	---------------------------------------

GEOPHYSICAL LOGGING DIVISION	
Database File:	hiamw1.db
Dataset Pathname:	run8/pass6
Presentation Format:	dil



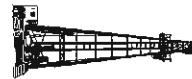
BROTHERS, Inc. GEOPHYSICAL LOGGING DIVISION	MAIN PASS
Database File: hiamw1.db	

-100	Spontaneous Potential (mV)	100
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000

[illegible][illegible][illegible]

Downhole Cal Performed:		Sat Apr 24 09:24:43 2010
After Survey Verification Performed:		Sat Apr 24 09:48:13 2010
Surface Calibration		
Readings	Reference	Results

Interval	Zero		Cal	Zero		Cal	m		b
	Zero	Cal		Zero	Cal		m	b	
Deep	24.889	388.868	mmho/m	25.793	392.954	mmho/m	1.009	0.687	
Medium	-14.657	407.210	mmho/m	-12.890	412.699	mmho/m	1.009	1.897	
Shallow	0.027	0.415		5.000	182.730	mmho/m	458.636	-7.513	



**YOUNGQUIST
BROTHERS, Inc**
GEOPHYSICAL LOGGING DIVISION

**BOREHOLE COMPENSATED
SONIC with VDL
& LOG DERIVED TDS**

Company CITY OF HIALEAH
Well MW-1
Field HIALEAH R.O.W.T.P.
County DADE
State FL

Company CITY OF HIALEAH
Well MW-1
Field HIALEAH R.O.W.T.P.
County DADE State FL

Location: API # :
Permanent Datum
Log Measured From
Drilling Measured From
Elevation
Other Services
SEE
COMMENTS
Elevation
K.B.
D.F.
G.L.

Date	Run Number	11-APRIL-2010		
Depth Driller		FIVE		
Depth Logger		1940'		
Bottom Logged Interval		1940'		
Top Log Interval		CASING		
Open Hole Size		12.25"		
Type Fluid		WATER		
Density / Viscosity		NA		
Max. Recorded Temp.		NA		
Estimated Cement Top		NA		
Time Well Ready		1730		
Time Logger on Bottom		1800		
Equipment Number		103		
Location		FT MYERS		
Recorded By		CATHEY		
Witnessed By		D. LEGGETT		
Borehole Record				
Run Number	Bit	From	To	Run No
ONE	40.5"	SURFACE	157'	
TWO	28.5"	CASING	1076'	
THREE	12.25"	CASING	1940'	
Borehole Record				
Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	.375" W.T.	SURFACE	156'
Prot. String	20"	.375 W.T.	SURFACE	1076'
Production String				
liner				

<<< 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.

Comments

OTHER SERVICES:

X-Y CALIPER / GAMMA RAY
DUAL INDUCTION
BOREHOLE TELEVIEWER
FLUID CONDUCTIVITY / TEMP
FLOWMETER

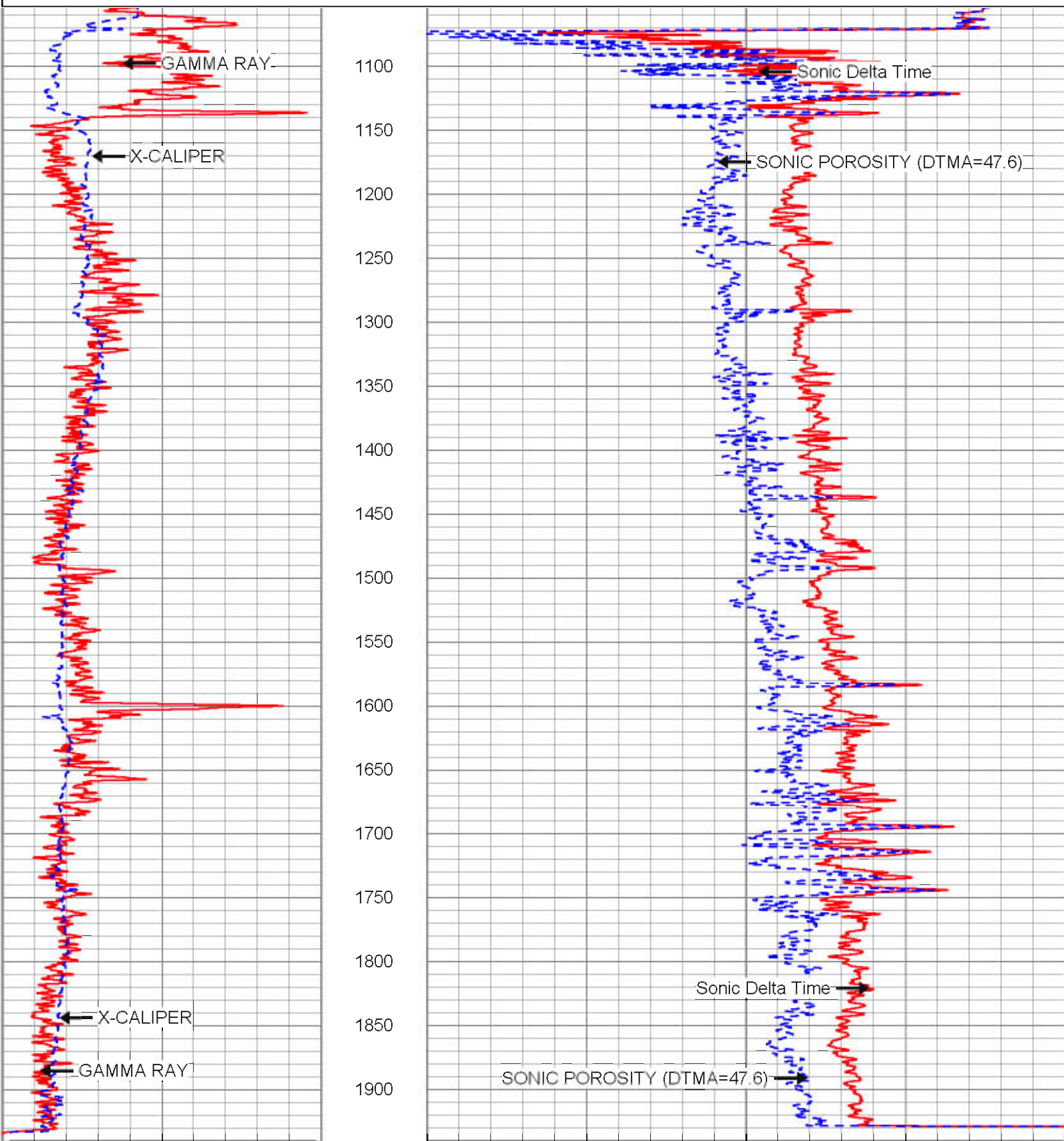


**YOUNGQUIST
BROTHERS, Inc**

MAIN PASS

Database File: hiamw1.db
 Dataset Pathname: run5/pass7
 Presentation Format: son_por
 Dataset Creation: Sun Apr 11 20:28:15 2010 by Log Open-Cased 090629
 Charted by: Depth in Feet scaled 1:1200

0	GAMMA RAY (GAPI)	100	240	DT (usec/ft)	40
10	X-CALIPER (in)	30	100	SONIC POROSITY (DTMA=47.6) (pu)	0



0	GAMMA RAY (GAPI)	100
10	X-CALIPER (in)	30

240	DT (usec/ft)	40
100	SONIC POROSITY (DTMA=47.6) (pu)	0

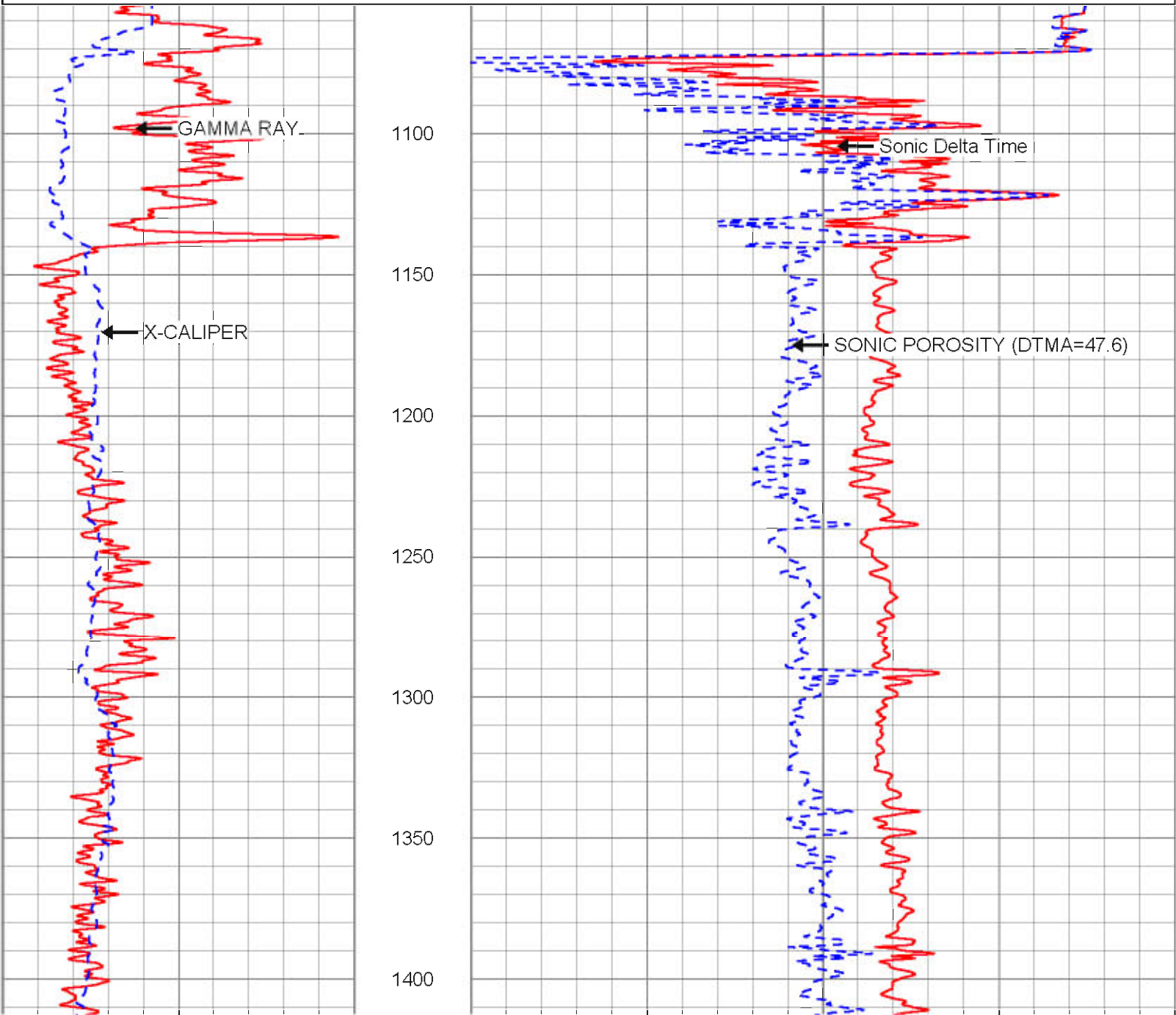


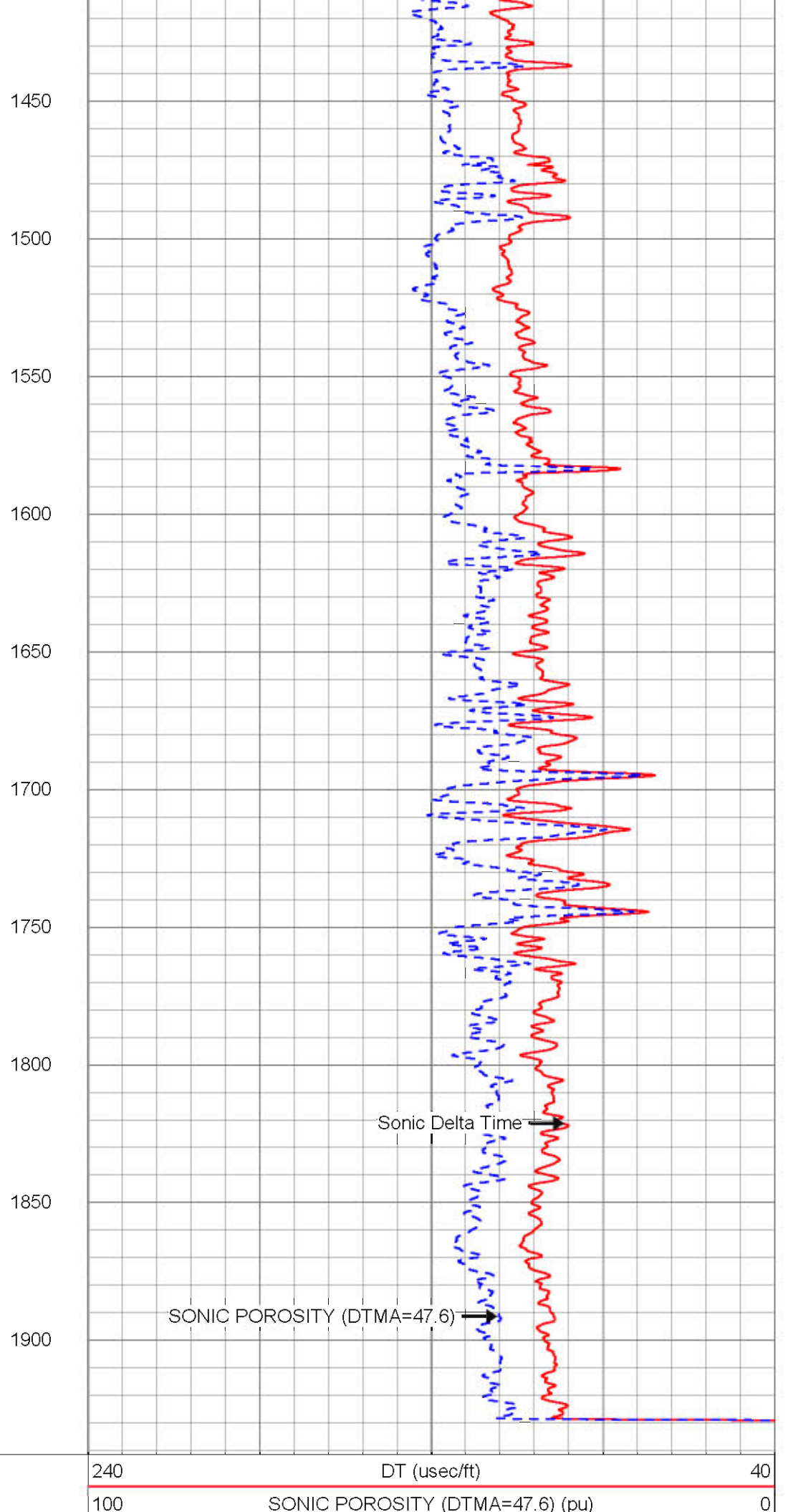
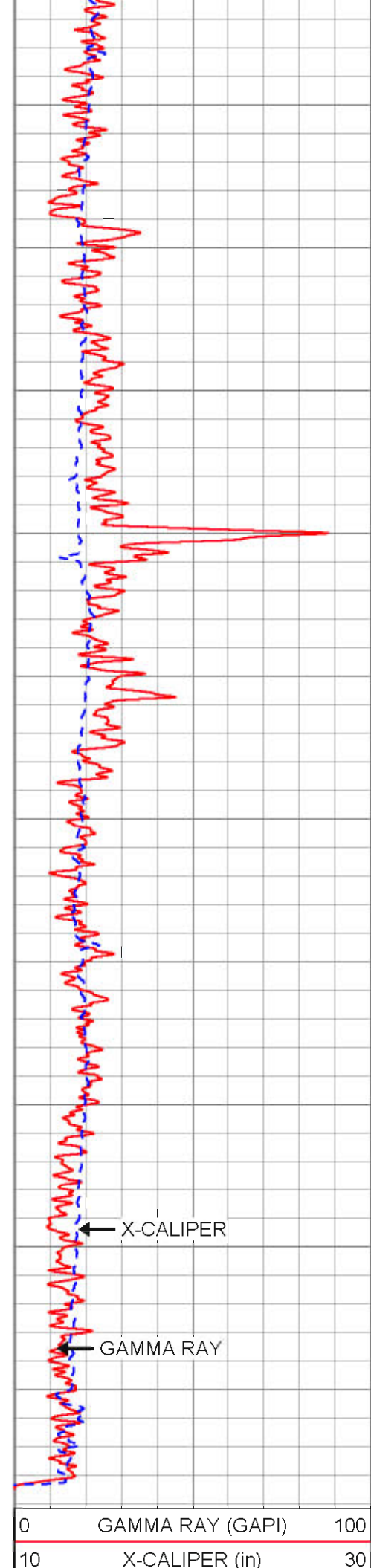
MAIN PASS

Database File: hiamw1.db
 Dataset Pathname: run5/pass7
 Presentation Format: son_por
 Dataset Creation: Sun Apr 11 20:28:15 2010 by Log Open-Cased 090629
 Charted by: Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	100
10	X-CALIPER (in)	30

240	DT (usec/ft)	40
100	SONIC POROSITY (DTMA=47.6) (pu)	0







**YOUNGQUIST
BROTHERS, Inc**

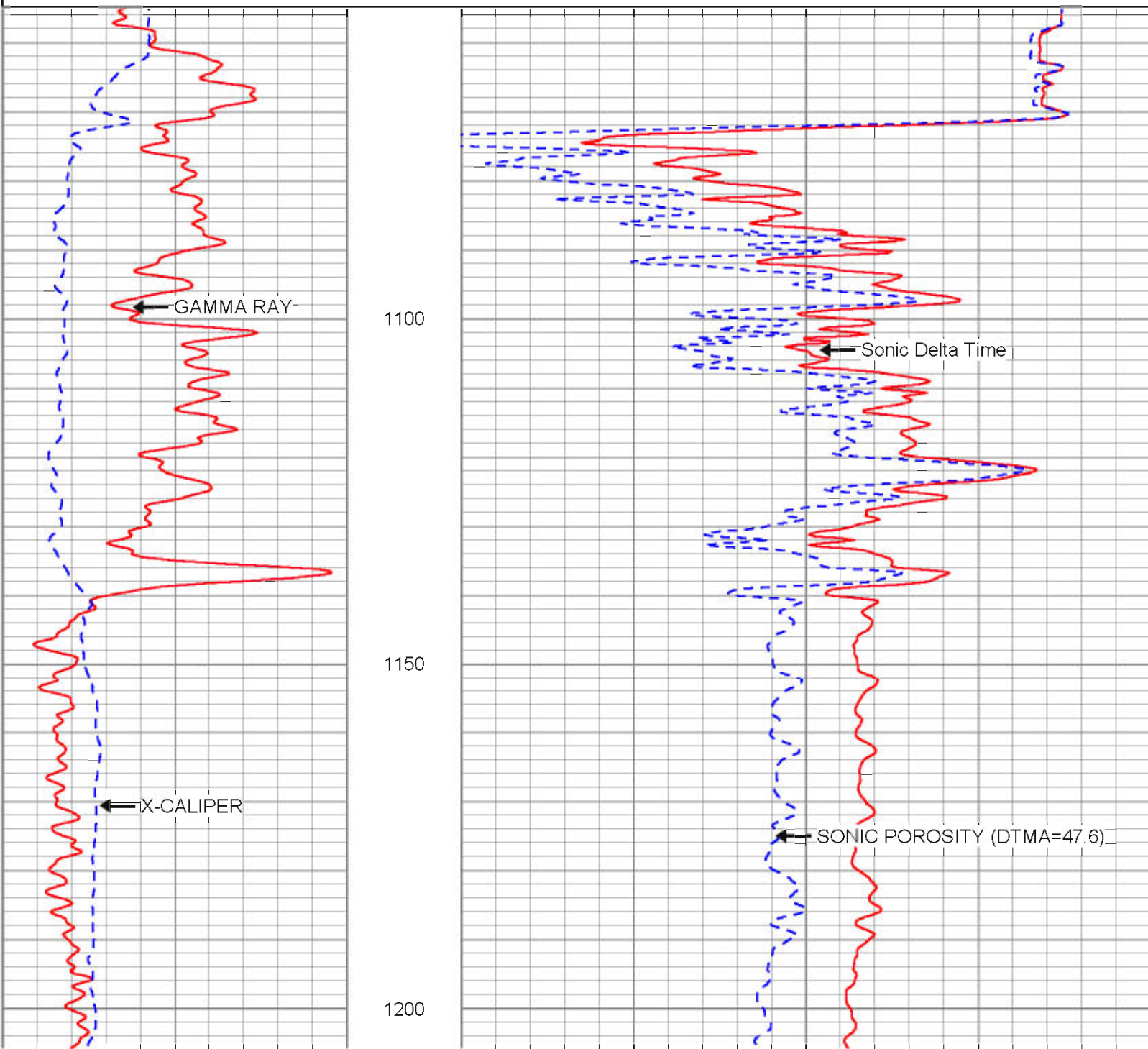
GEOPHYSICAL LOGGING DIVISION

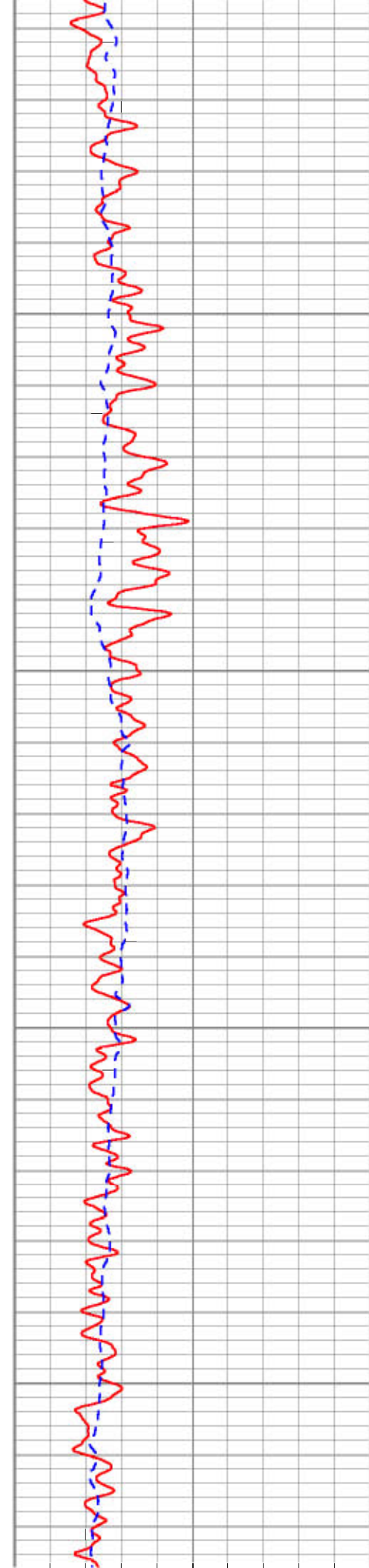
MAIN PASS

Database File: hiamw1.db
Dataset Pathname: run5/pass7
Presentation Format: son_por
Dataset Creation: Sun Apr 11 20:28:15 2010 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	100
10	X-CALIPER (in)	30

240	DT (usec/ft)	40
100	SONIC POROSITY (DTMA=47.6) (pu)	0



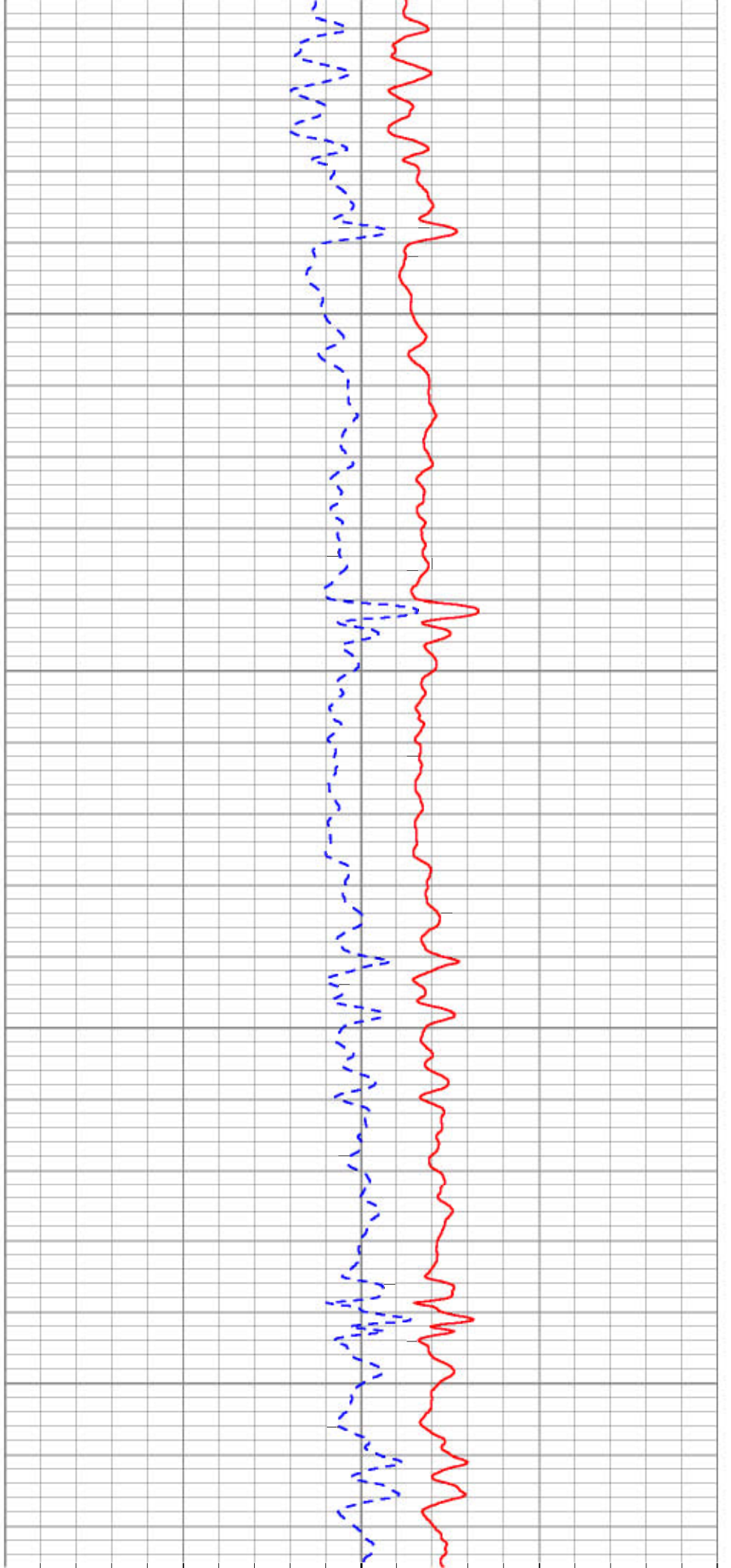


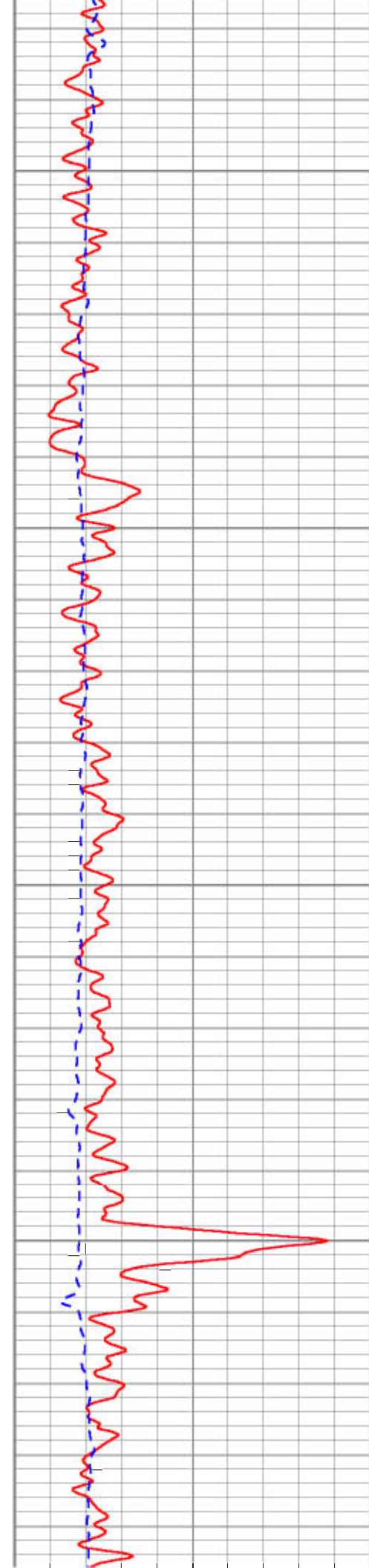
1250

1300

1350

1400



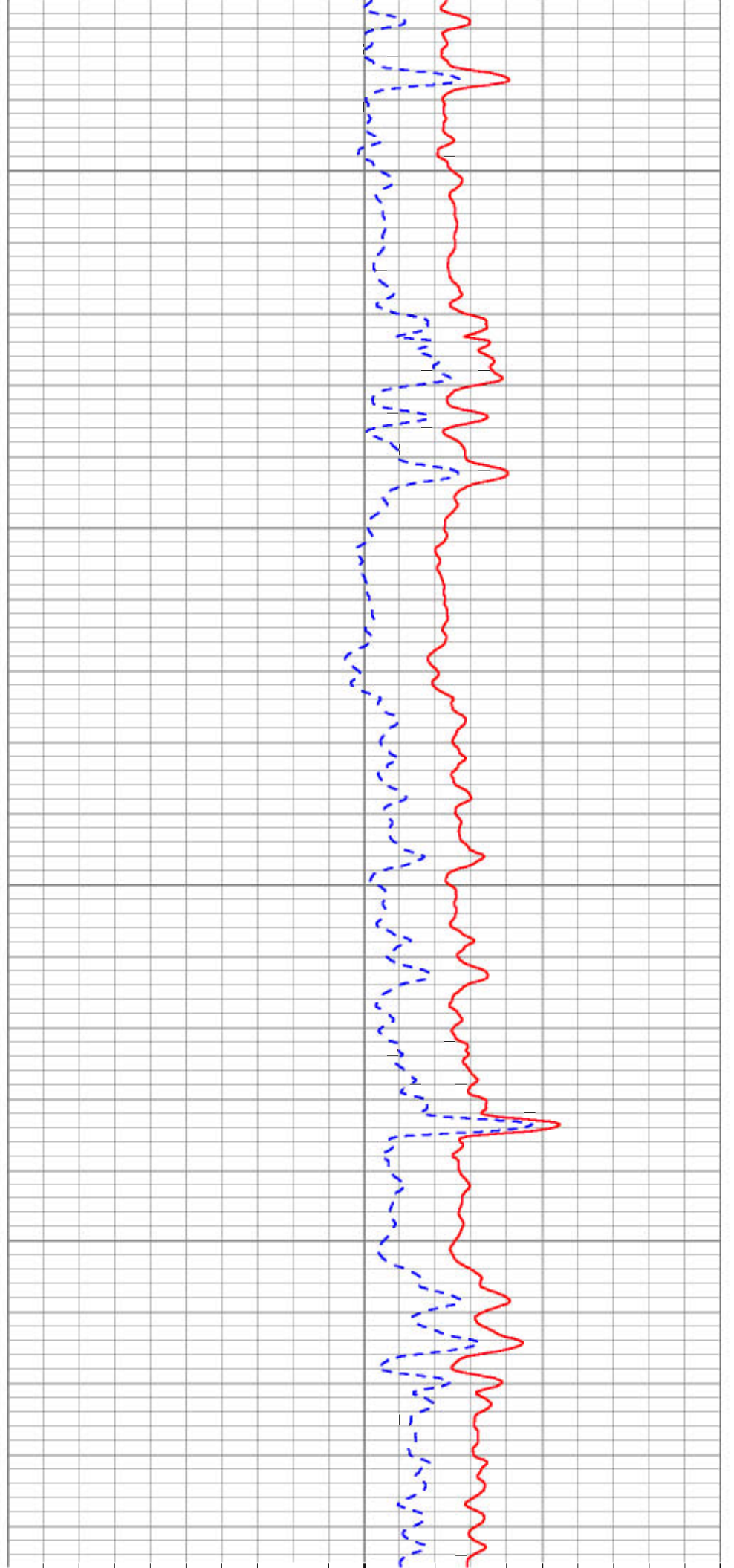


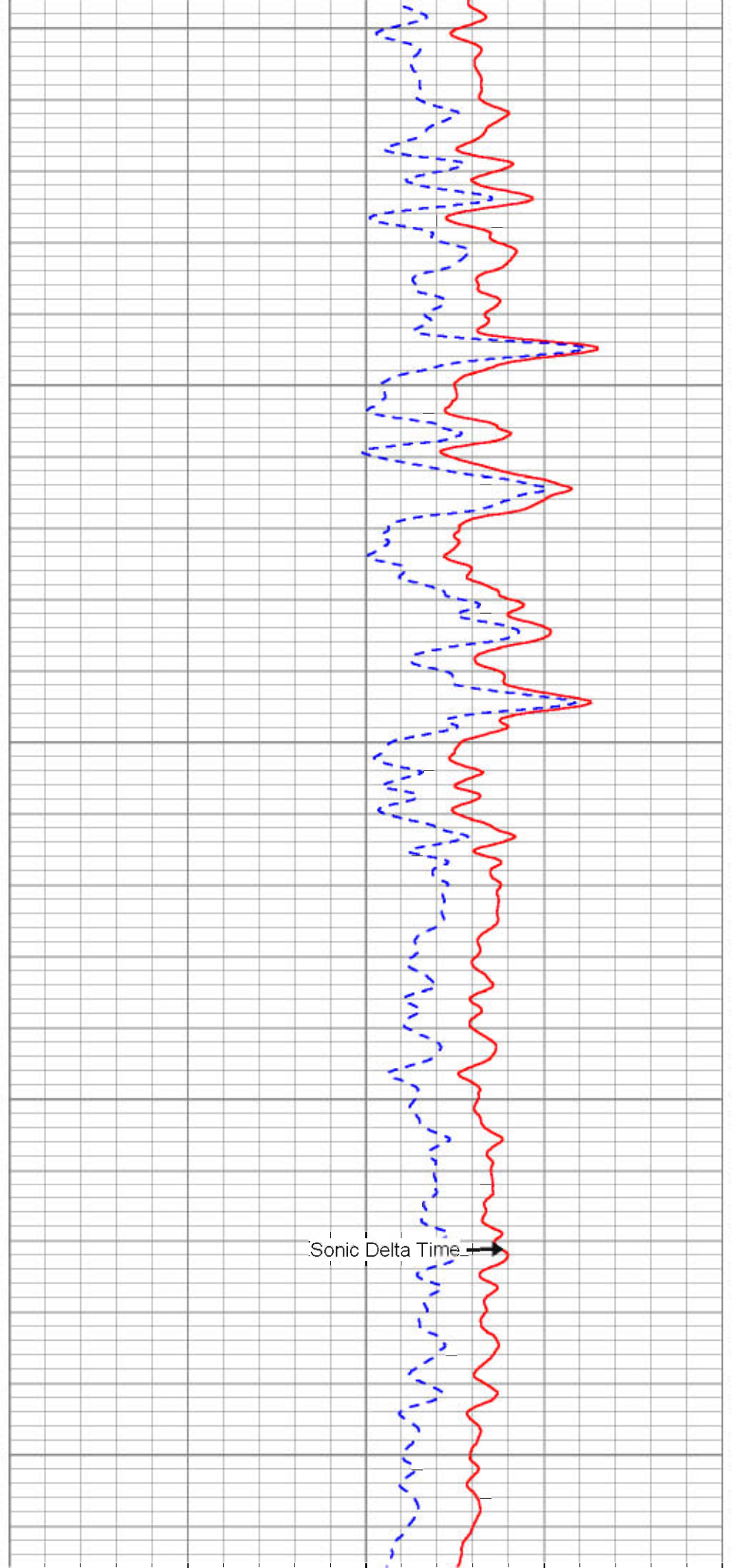
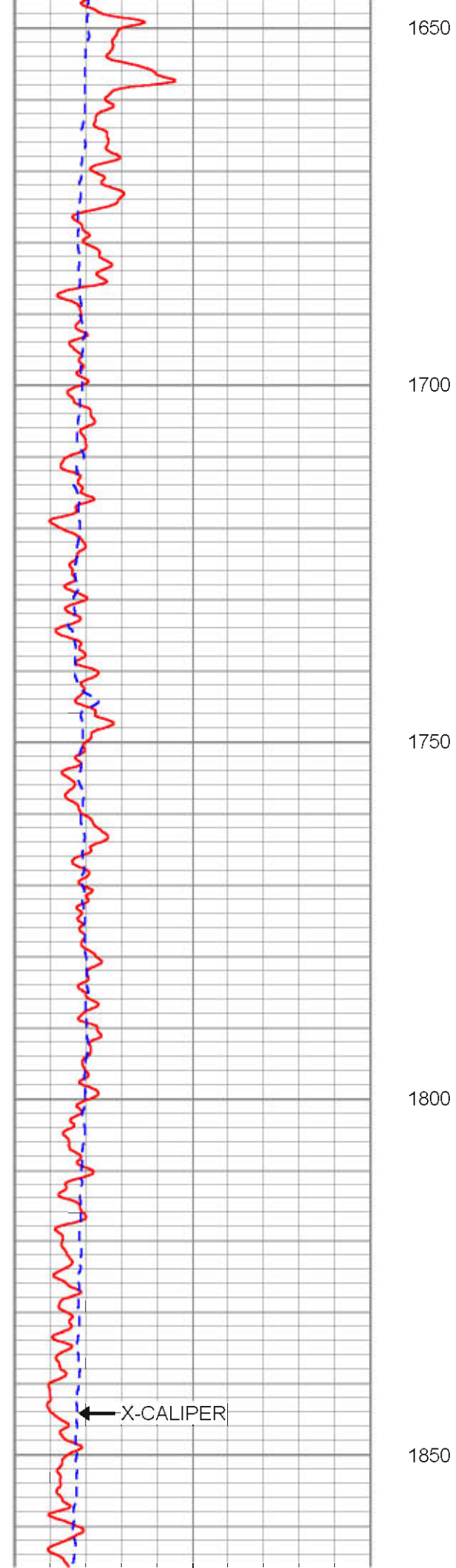
1450

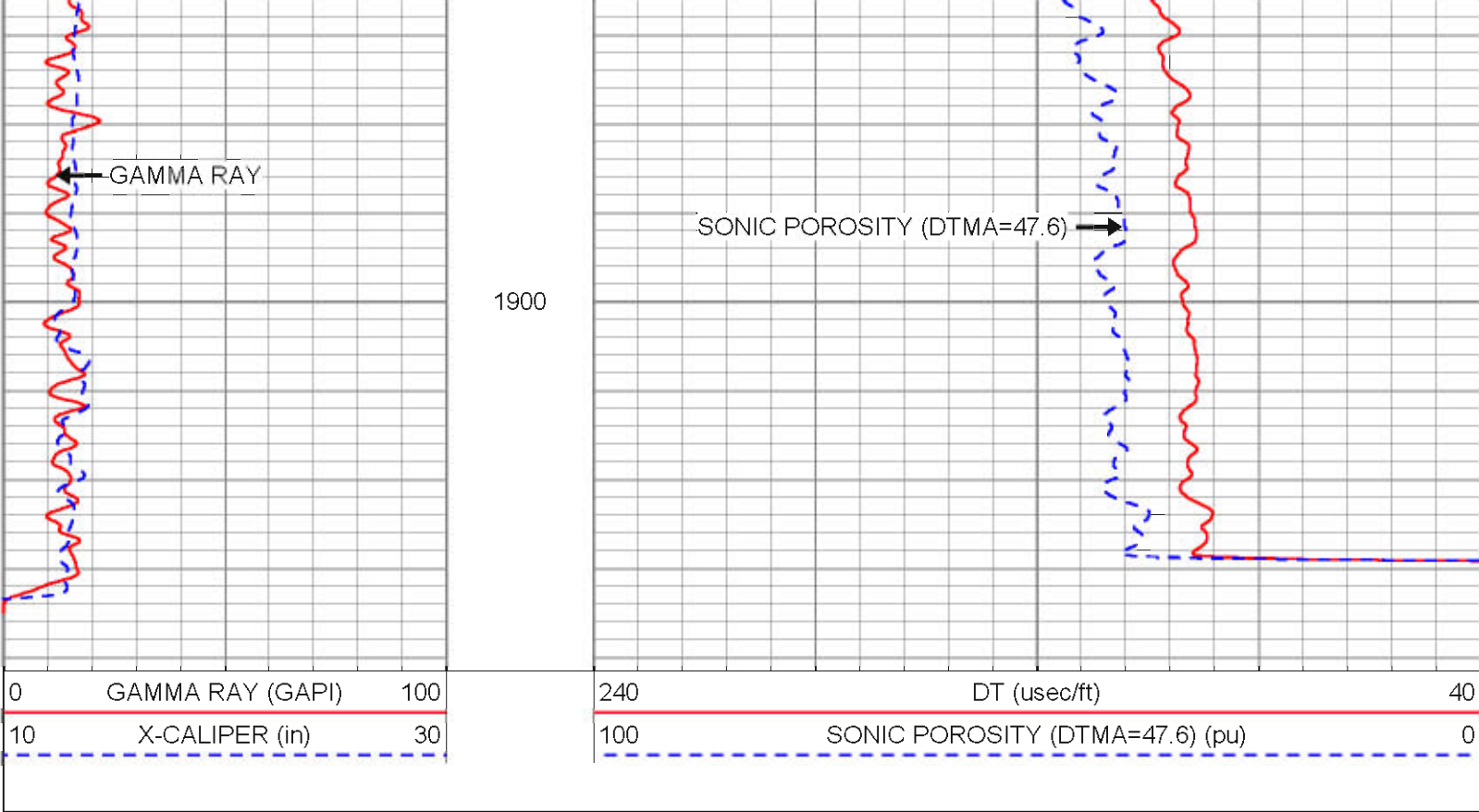
1500

1550

1600









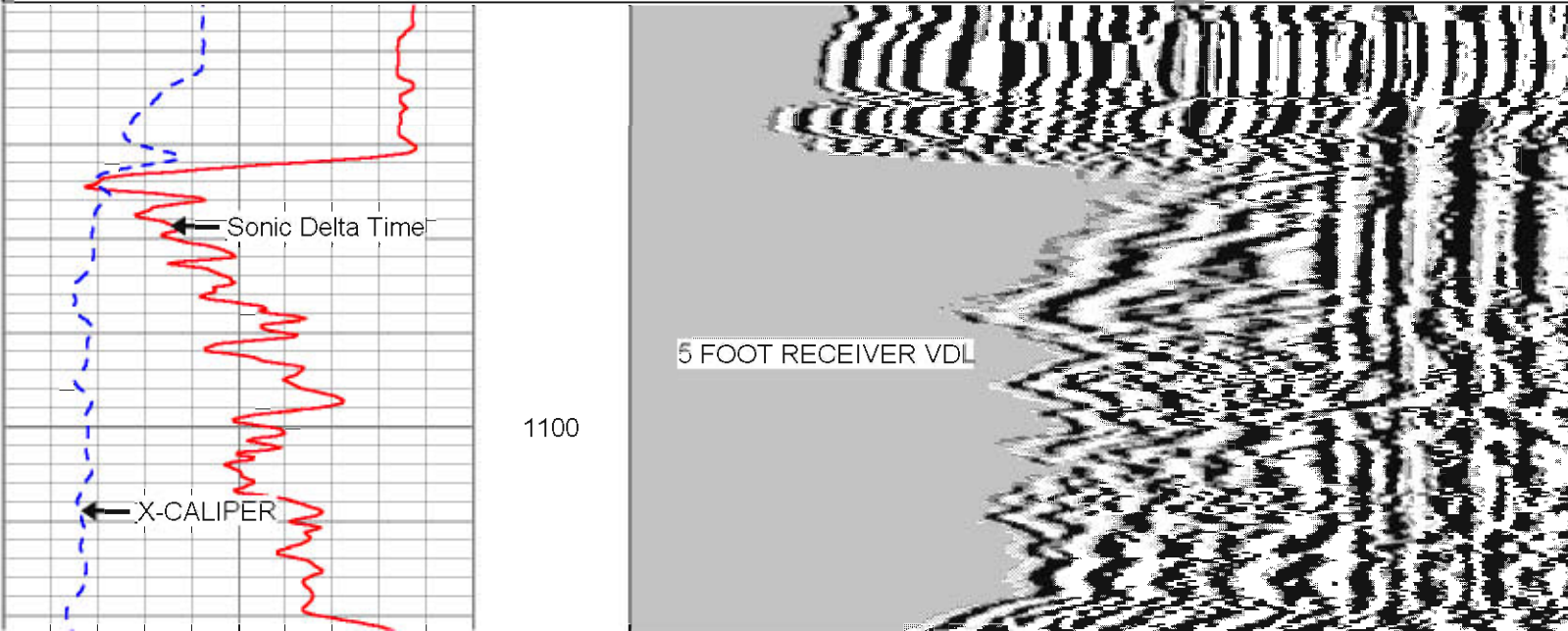
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

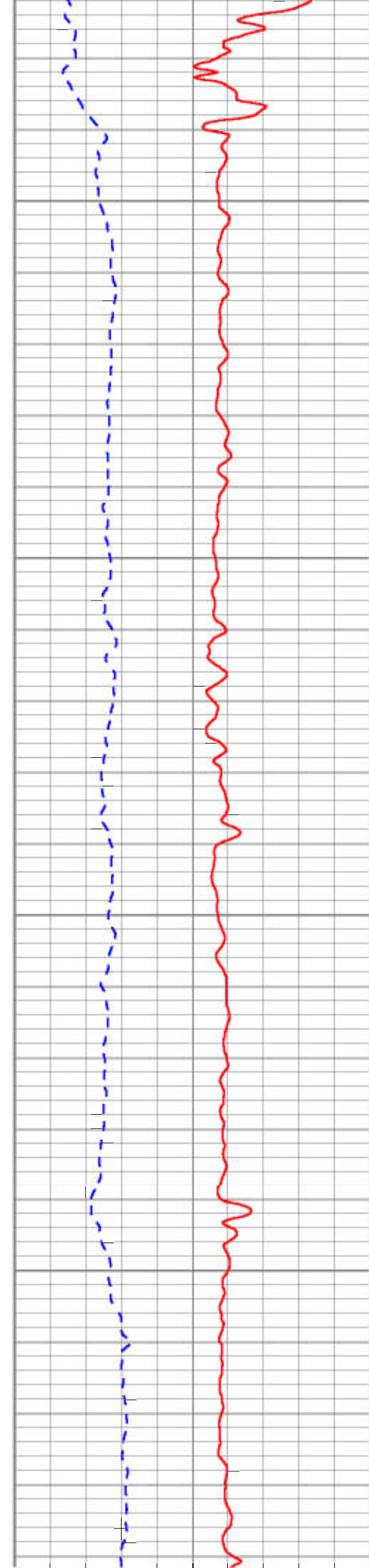
MAIN PASS

Database File: hiamw1.db
Dataset Pathname: run5/pass7
Presentation Format: son_vdl
Dataset Creation: Sun Apr 11 20:28:15 2010 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

240	DT (usec/ft)	40
10	X-CALIPER (in)	30

400	5 FOOT RECEIVER VDL	1400
-----	---------------------	------



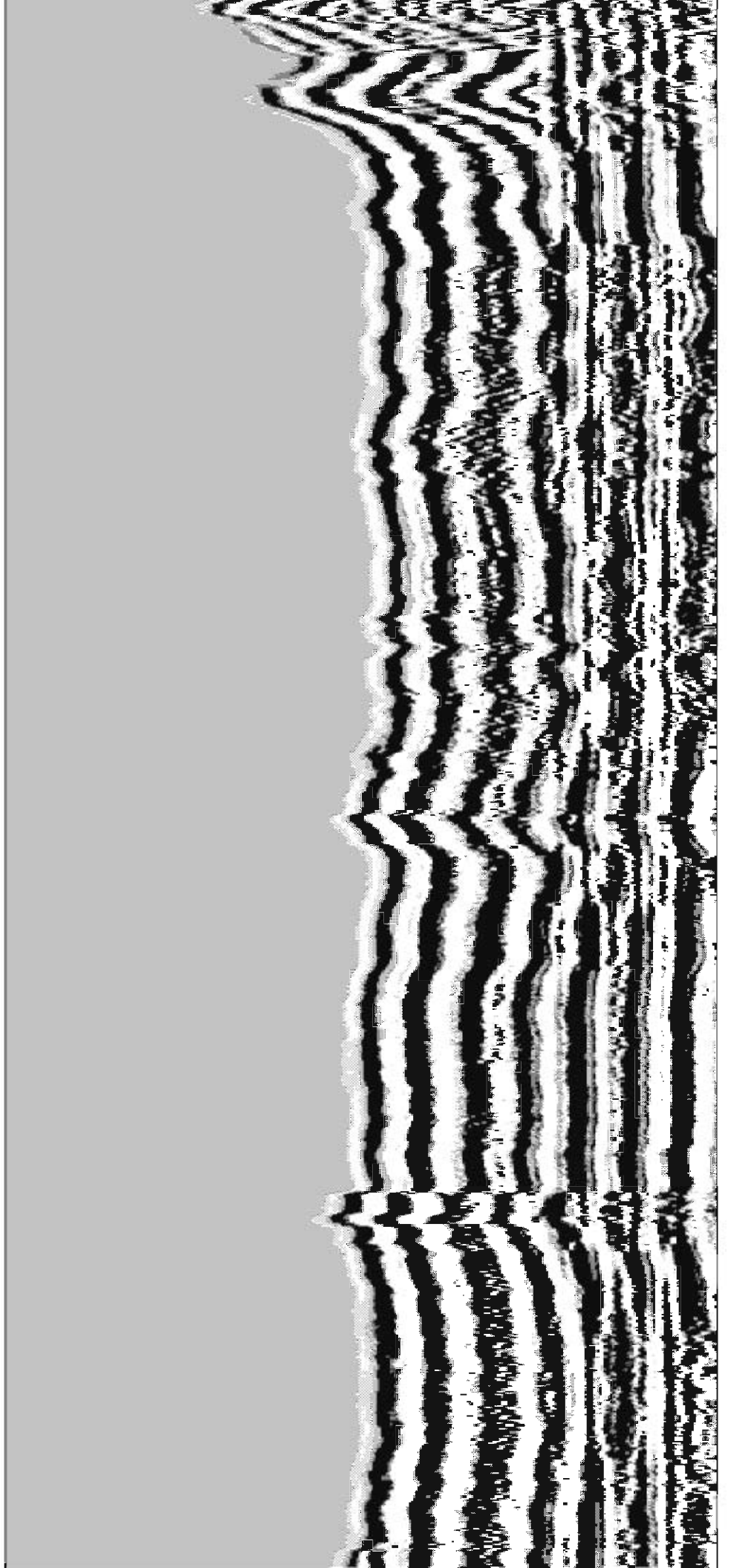


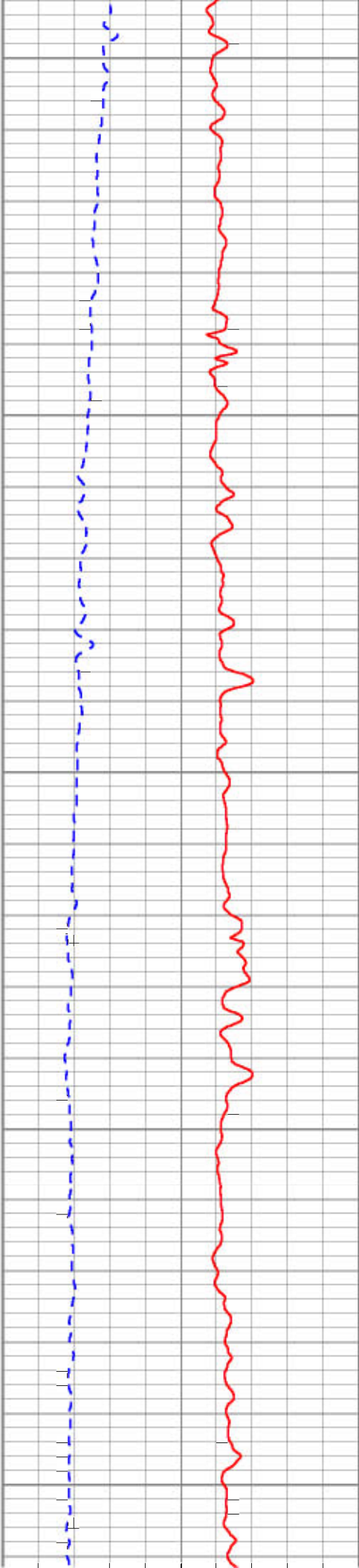
1150

1200

1250

1300





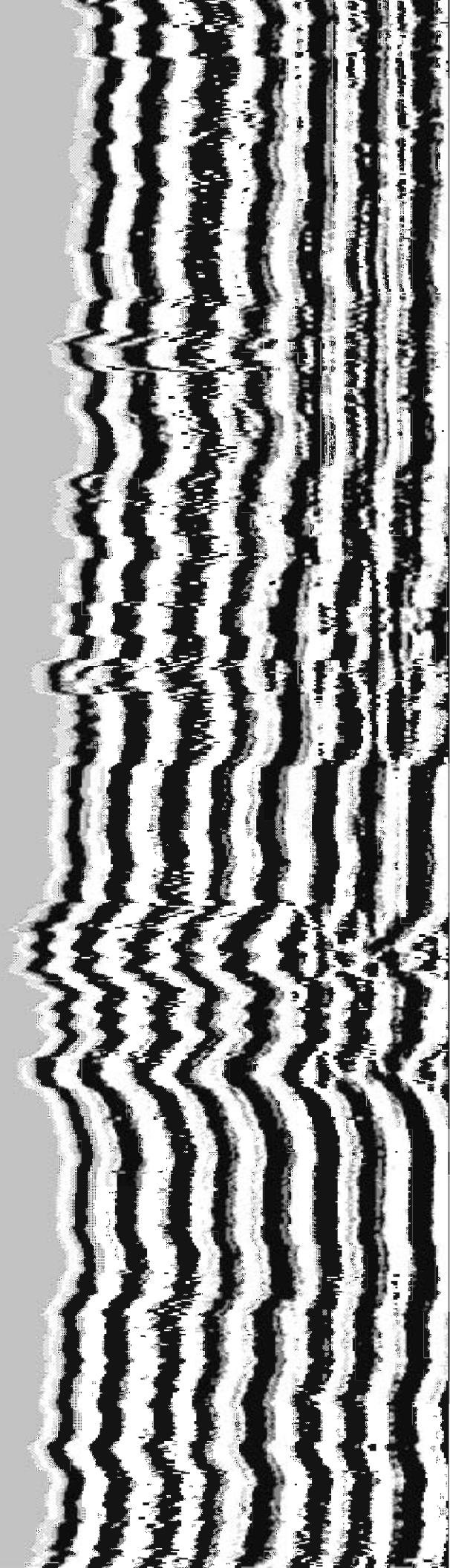
1350

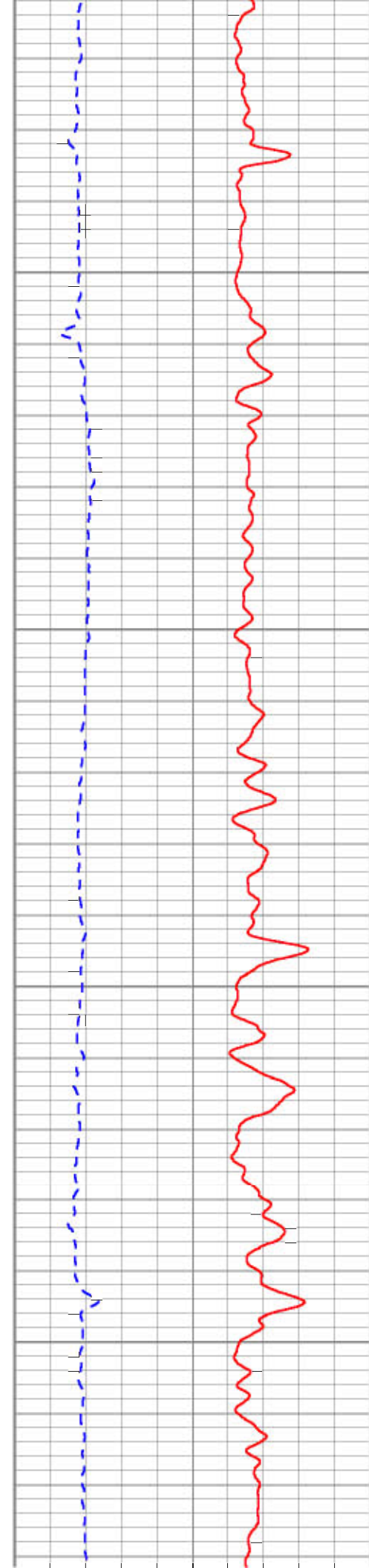
1400

1450

1500

1550



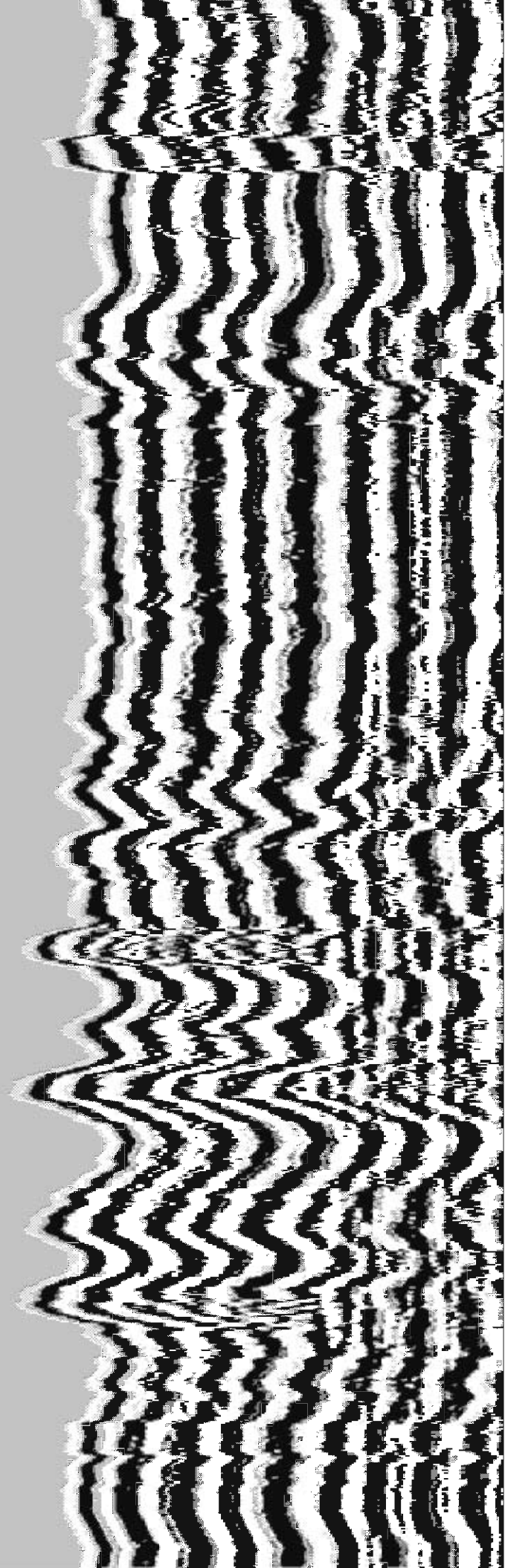


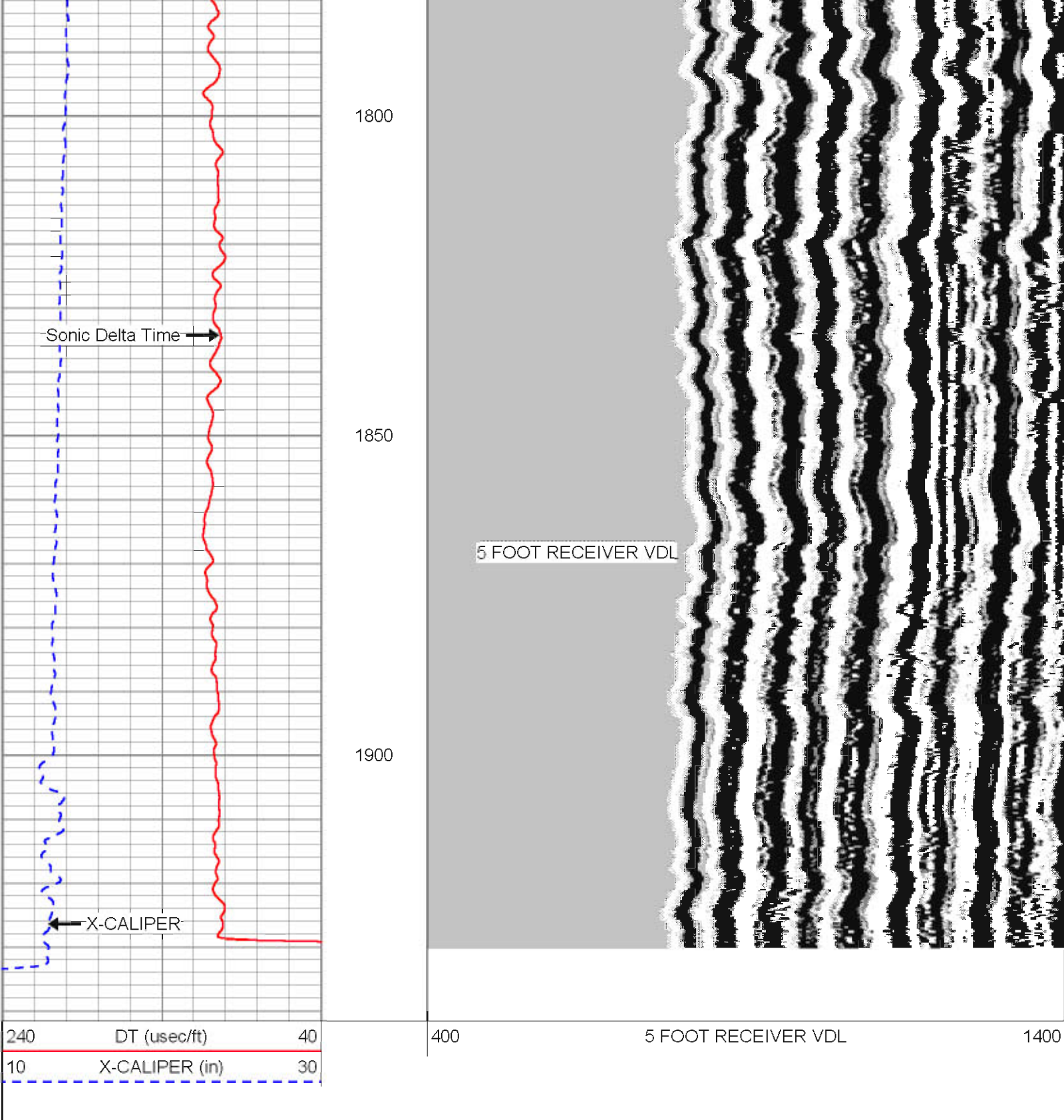
1600

1650

1700

1750





**YOUNGQUIST
BROTHERS, Inc**

GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

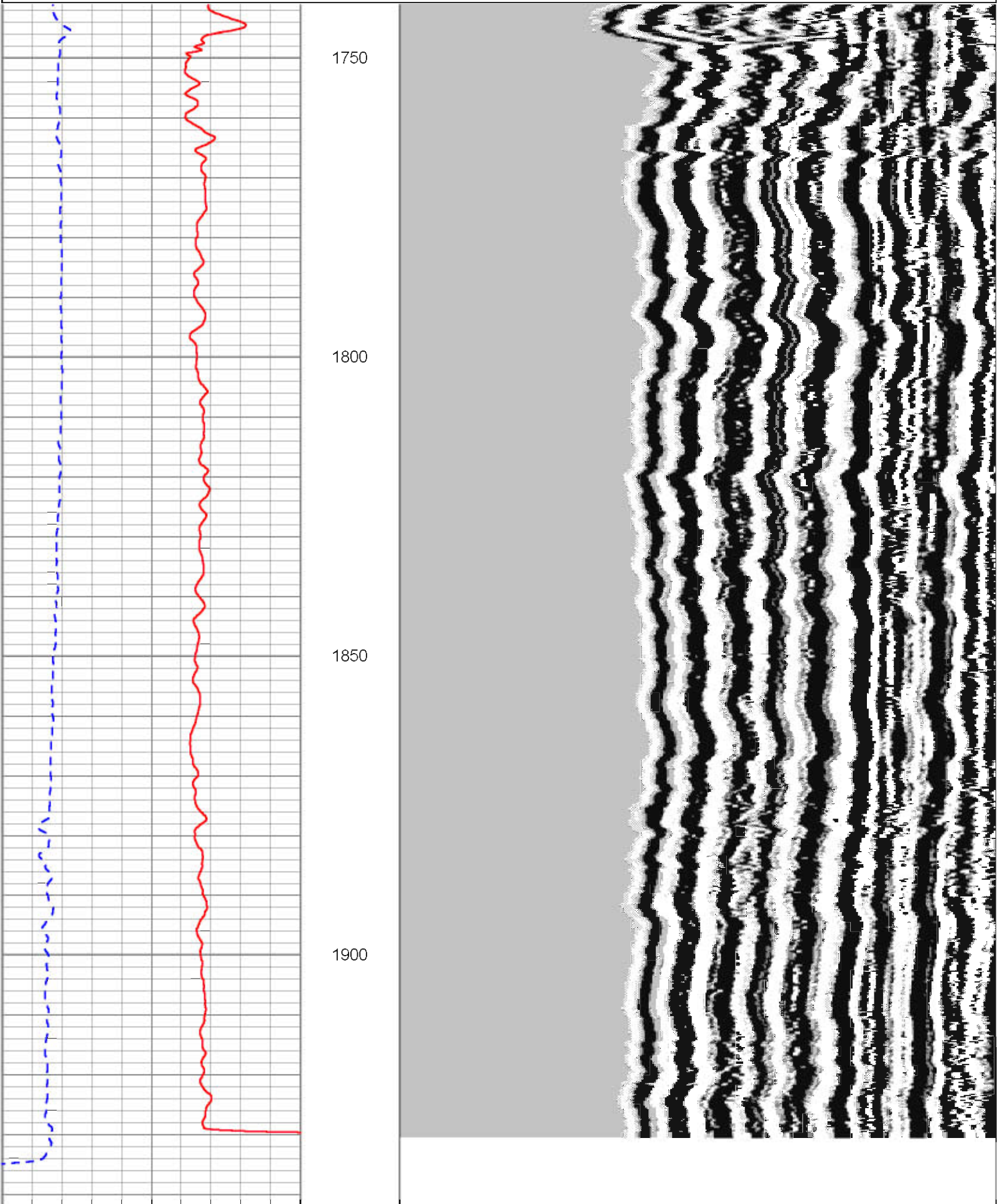
Database File: hiamw1.db
Dataset Pathname: run5/pass6
Presentation Format: son_vdl
Dataset Creation: Sun Apr 11 20:19:39 2010 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

240	DT (usec/ft)	40
10	X-CALIPER (in)	30

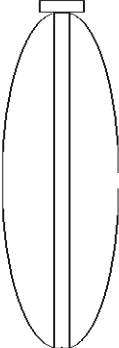
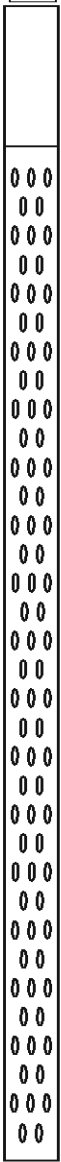
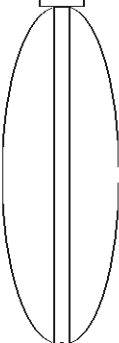
400

5 FOOT RECEIVER VDL

1400



240	DT (usec/ft)	40	400	5 FOOT RECEIVER VDL	1400
10	X-CALIPER (in)	30			

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			TOP	5.00	3.00	50.00
WVF1 WVF3	13.50 13.50		SLT-PENGO (03)	16.00	3.50	127.00
WVF2 WVF4	11.50 11.50		BOT	5.00	3.00	50.00

Dataset:	hiamw1.db: field/well/run5/pass7
Total Length:	26.00 ft
Total Weight:	227.00 lb
O.D.	3.50 in



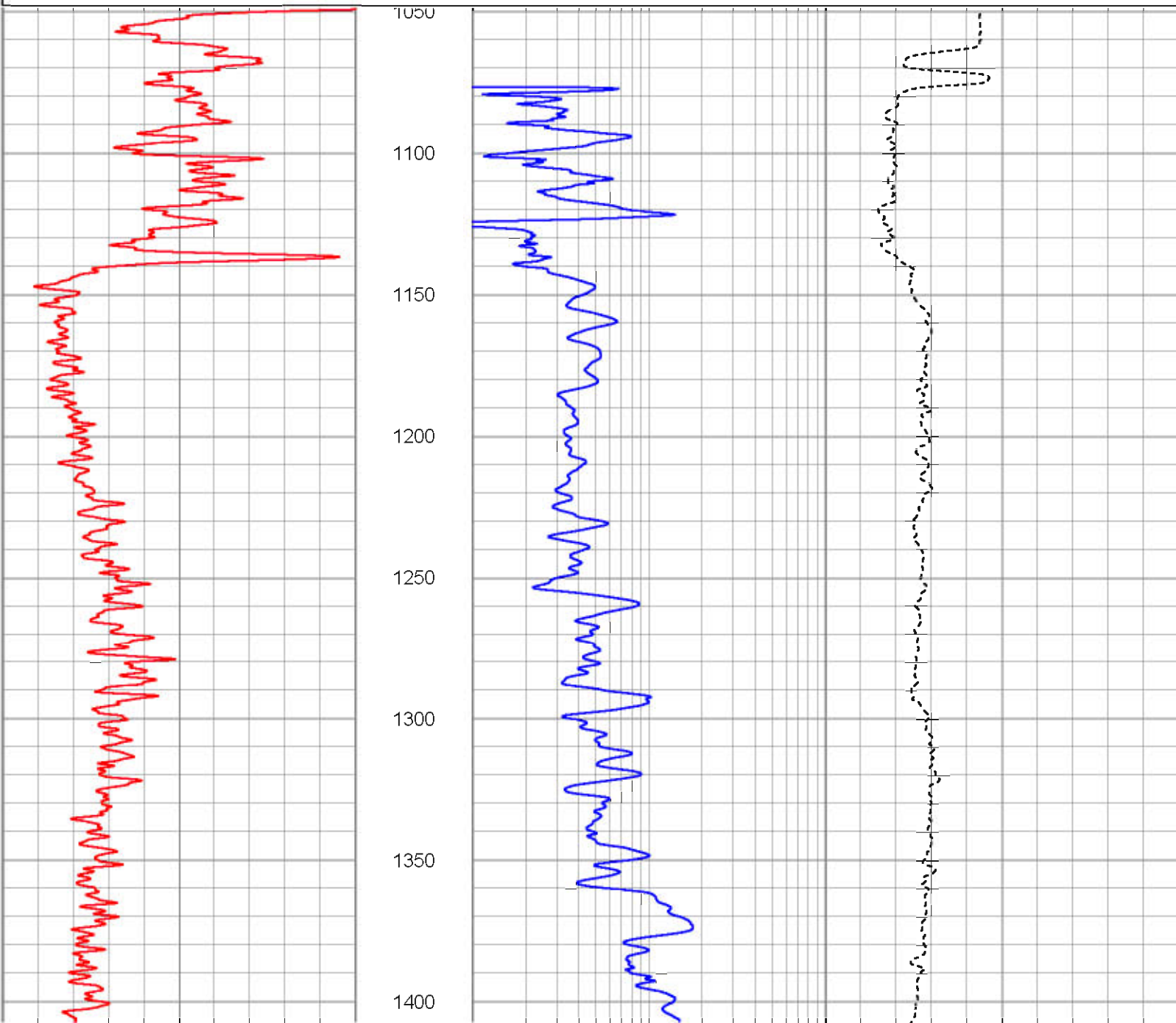
**YOUNGQUIST
BROTHERS, Inc**

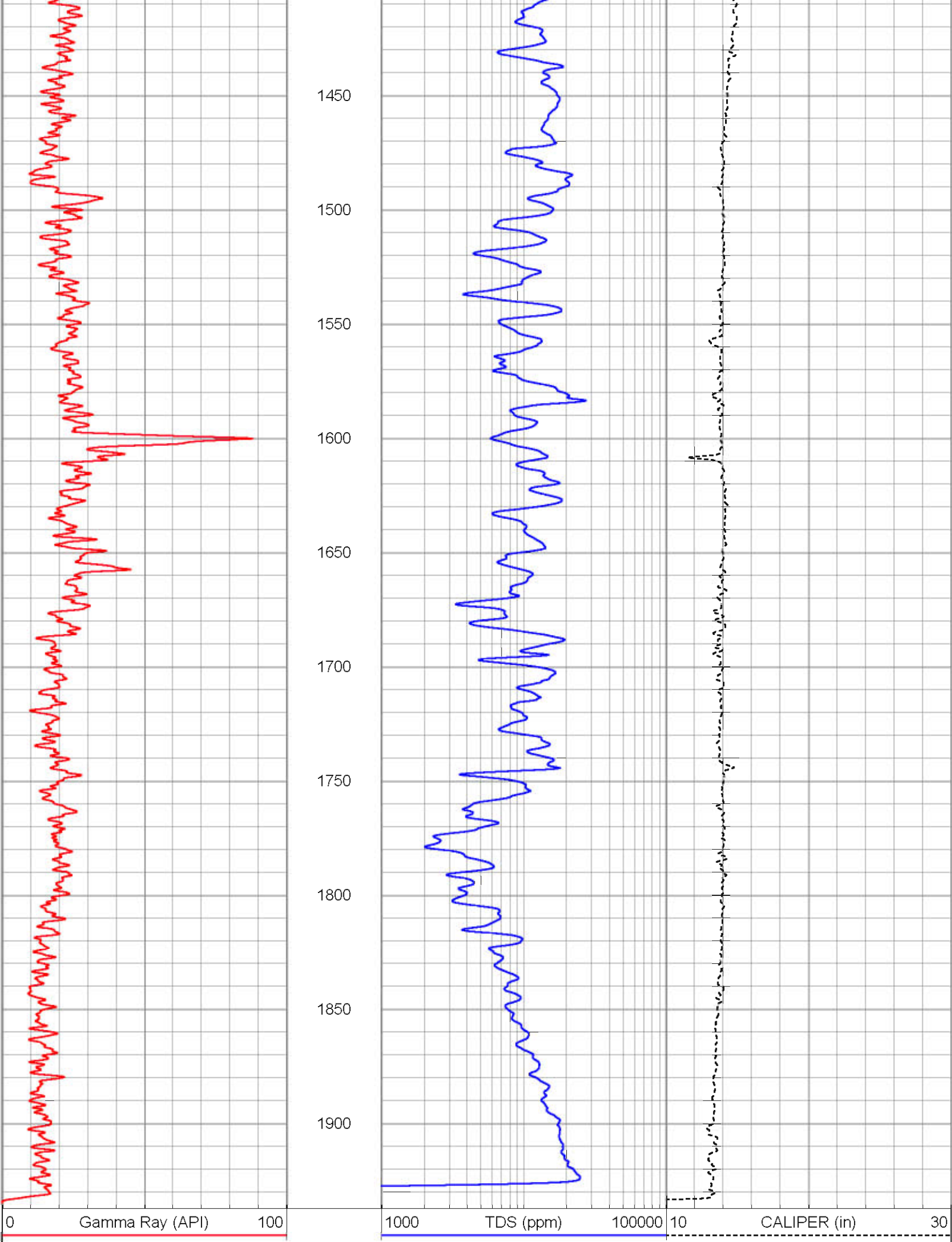
GEOPHYSICAL LOGGING DIVISION

LOG DERIVED TDS

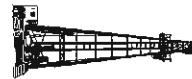
Database File: hiamw1.db
Dataset Pathname: run5/TDS
Presentation Format: tds
Dataset Creation: Sun Apr 11 21:01:22 2010
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (API)	100	1000	TDS (ppm)	100000	10	CALIPER (in)	30
---	-----------------	-----	------	-----------	--------	----	--------------	----









**YOUNGQUIST
BROTHERS, Inc**
GEOPHYSICAL LOGGING DIVISION

**DUAL INDUCTION
LL3 with SP
LOG**

Company CITY OF HIALEAH
Well MW-1
Field HIALEAH R.O.W.T.P.
County DADE
State FL

Company CITY OF HIALEAH
Well MW-1
Field HIALEAH R.O.W.T.P.
County DADE State FL

Location:

API # :

Other Services
SEE
COMMENTS

SEC TWP RGE

Elevation

Permanent Datum
Log Measured From
Drilling Measured From

Elevation

K.B.
D.F.
G.L.

Date Run Number 11-APRIL-2010

Depth Driller FIVE

Depth Logger 1940'

Bottom Logged Interval 1940'

Top Log Interval CASING

Open Hole Size 12.25"

Type Fluid WATER

Density / Viscosity NA

Max. Recorded Temp. NA

Estimated Cement Top NA

Time Well Ready 1730

Time Logger on Bottom 1800

Equipment Number 103

Location FT MYERS

Recorded By CATHEY

Witnessed By D. LEGGETT

Borehole Record

Run Number

ONE

TWO

THREE

Bit From To

40.5" SURFACE 157'

28.5" CASING 1076'

12.25" CASING 1940'

Run No

157'

1076'

1940'

Bit From To

157'

1076'

1940'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

SURFACE

SURFACE

Bottom

156'

1076'

1076'

Size

30"

20"

3.75 W.T.

Wgt/Ft

3.75 W.T.

3.75 W.T.

1076'

Top

SURFACE

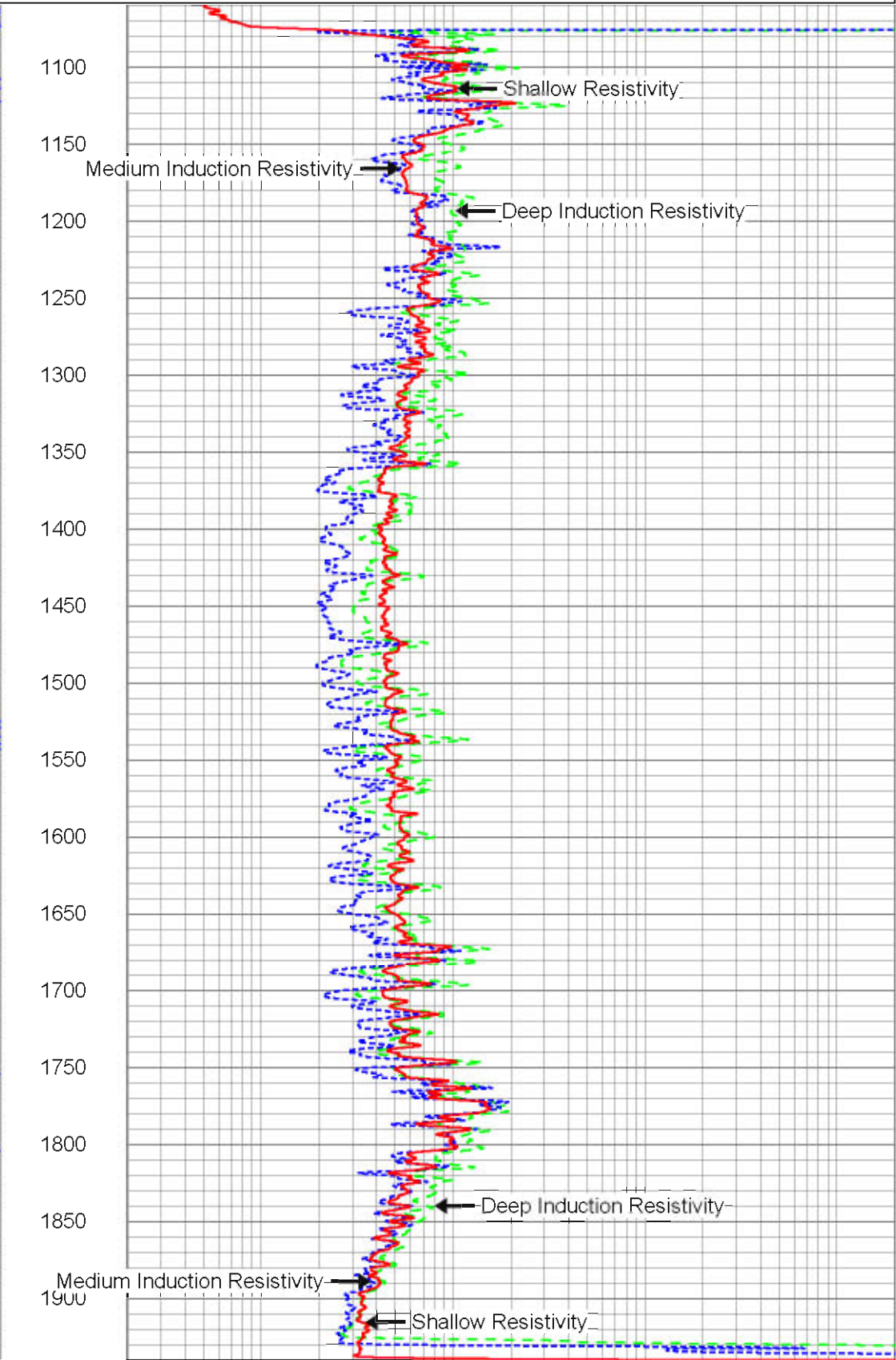
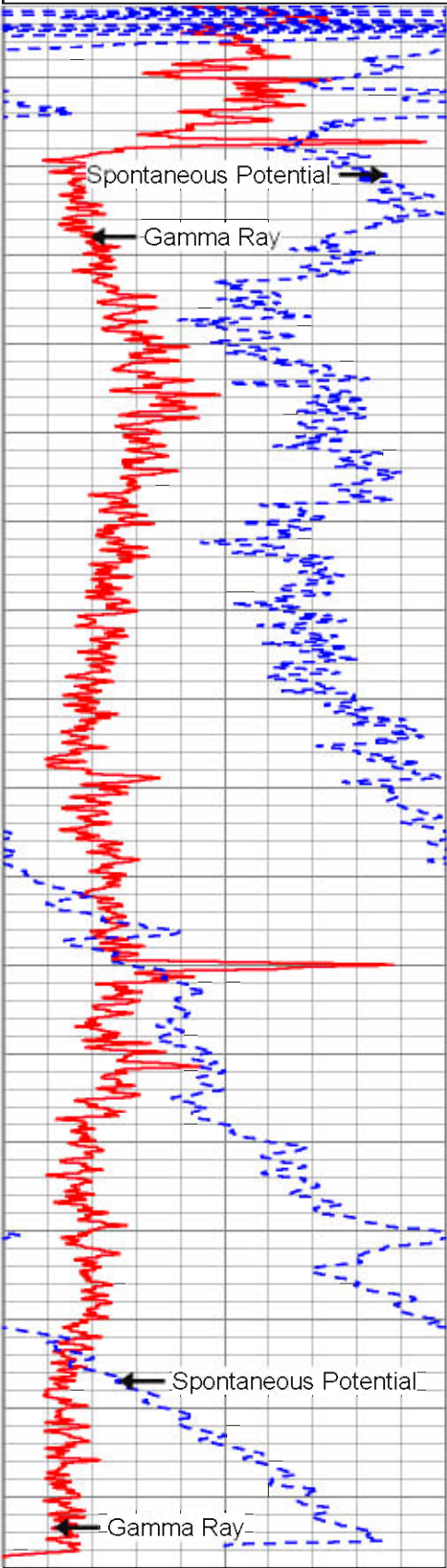
SURFACE

SURFACE

Database File: hiamw1.db
Dataset Pathname: run5/pass5
Presentation Format: dil
Dataset Creation: Sun Apr 11 19:23:10 2010 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:1200

0	Gamma Ray (GAPI)	100
-100	Spontaneous Potential (mV)	100

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000



Gamma Ray (GAPI)	100
-100 Spontaneous Potential (mV)	100

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000

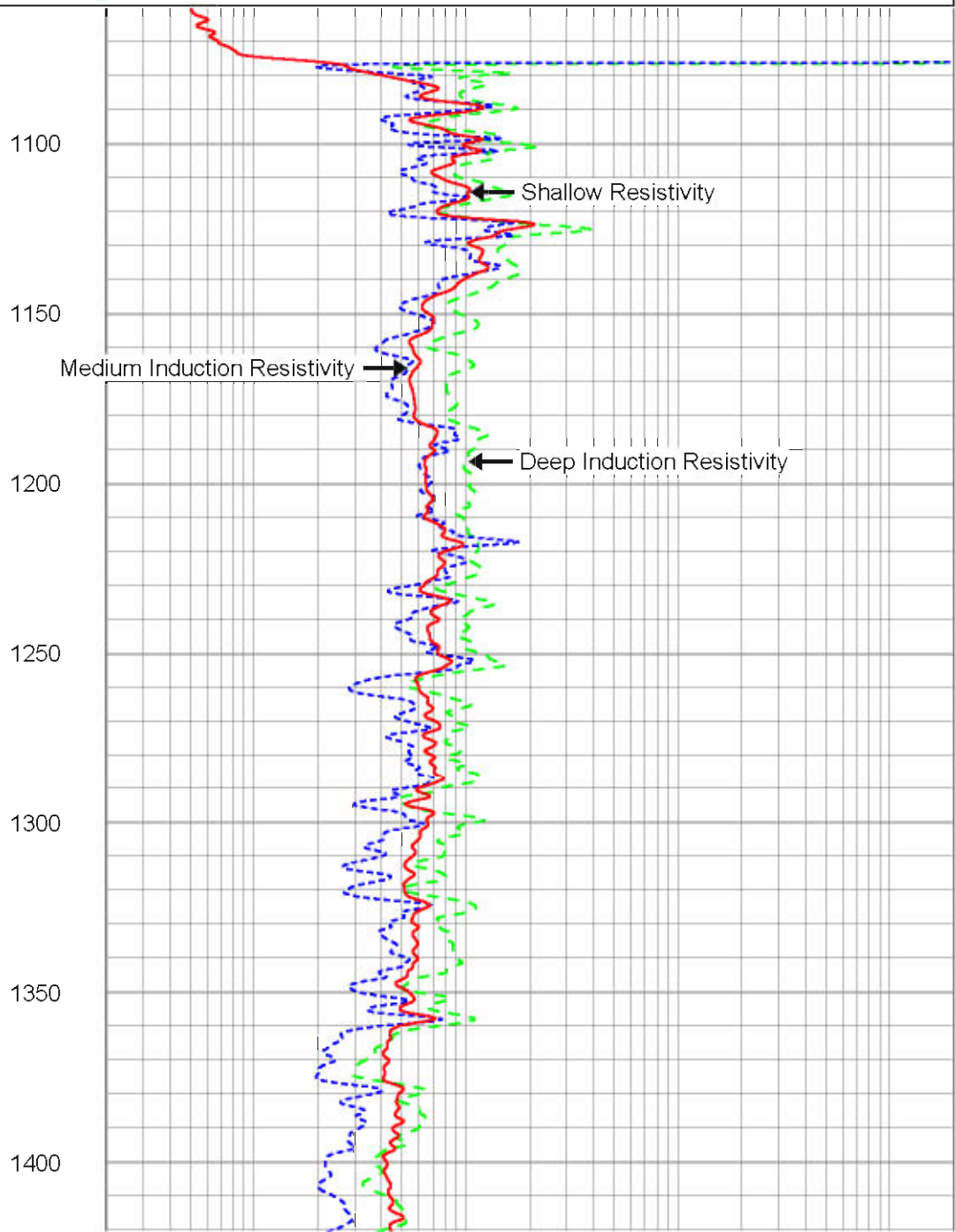
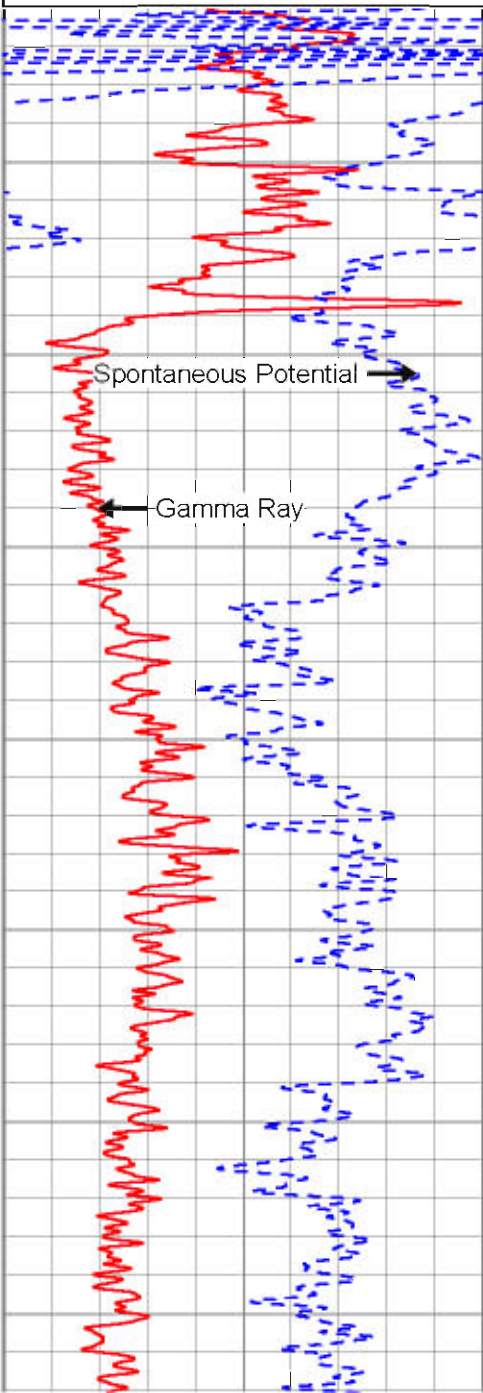


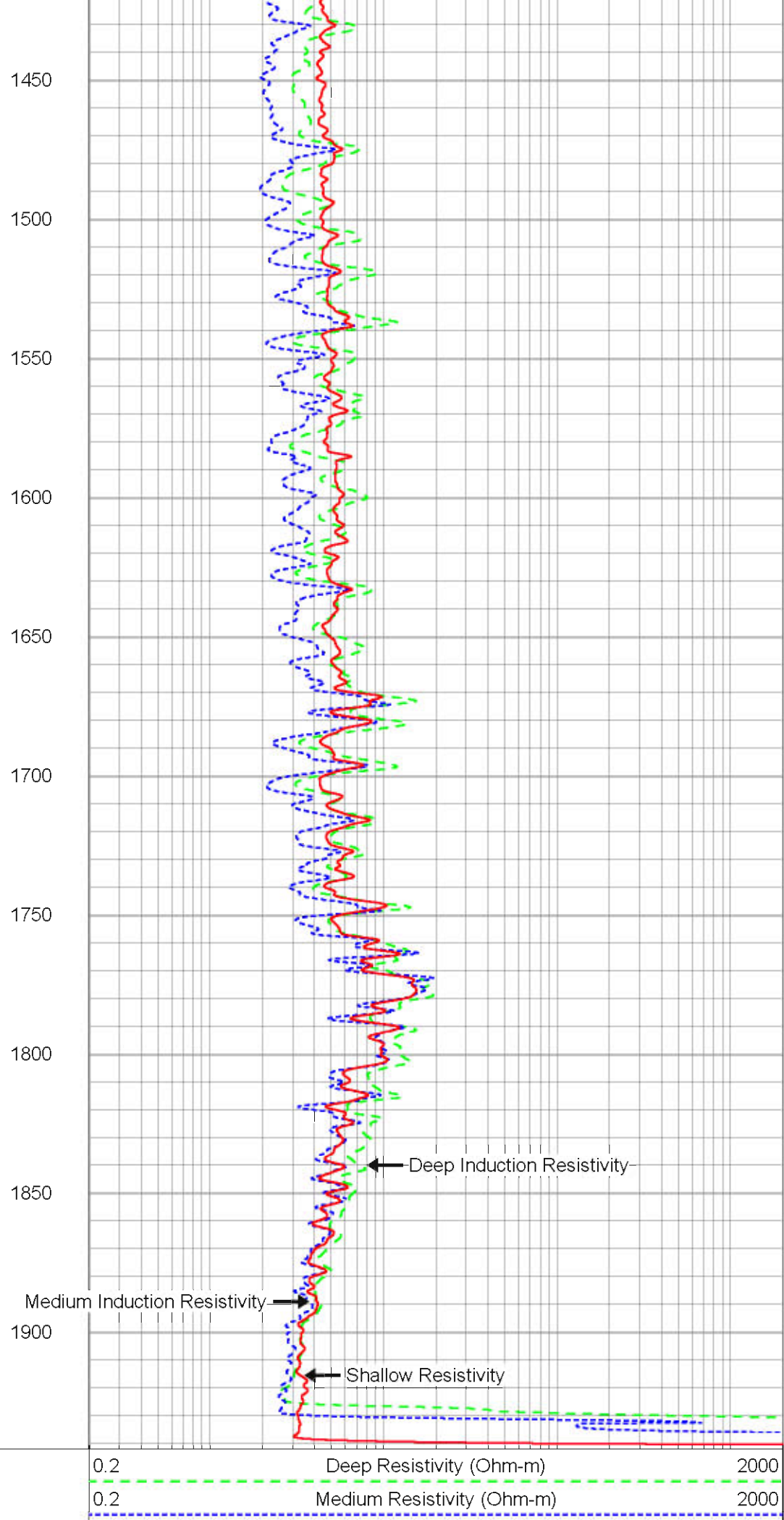
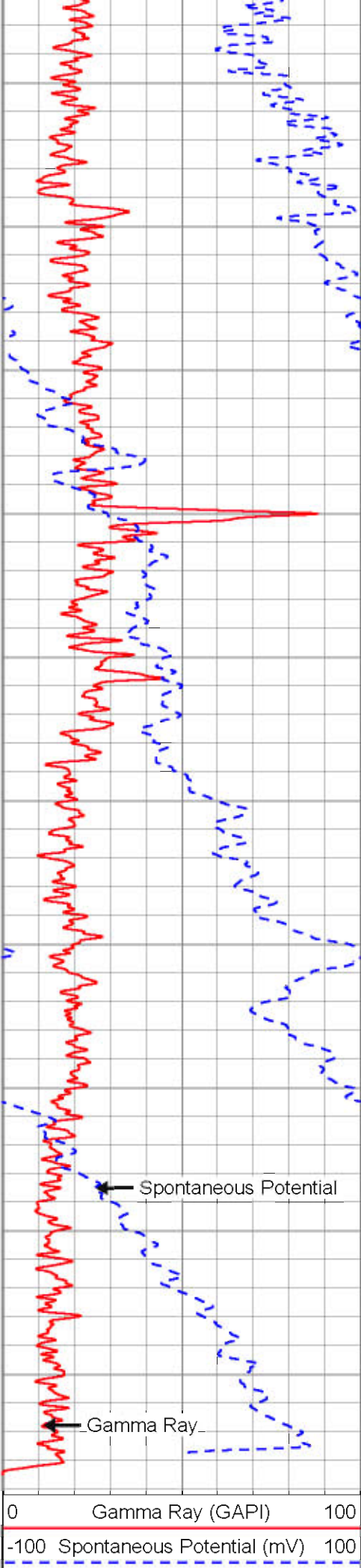
MAIN PASS

Database File: hiamw1.db
 Dataset Pathname: run5/pass5
 Presentation Format: dil
 Dataset Creation: Sun Apr 11 19:23:10 2010 by Log Open-Cased 090629
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	100
-100	Spontaneous Potential (mV)	100

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000







YOUNGQUIST BROTHERS, Inc

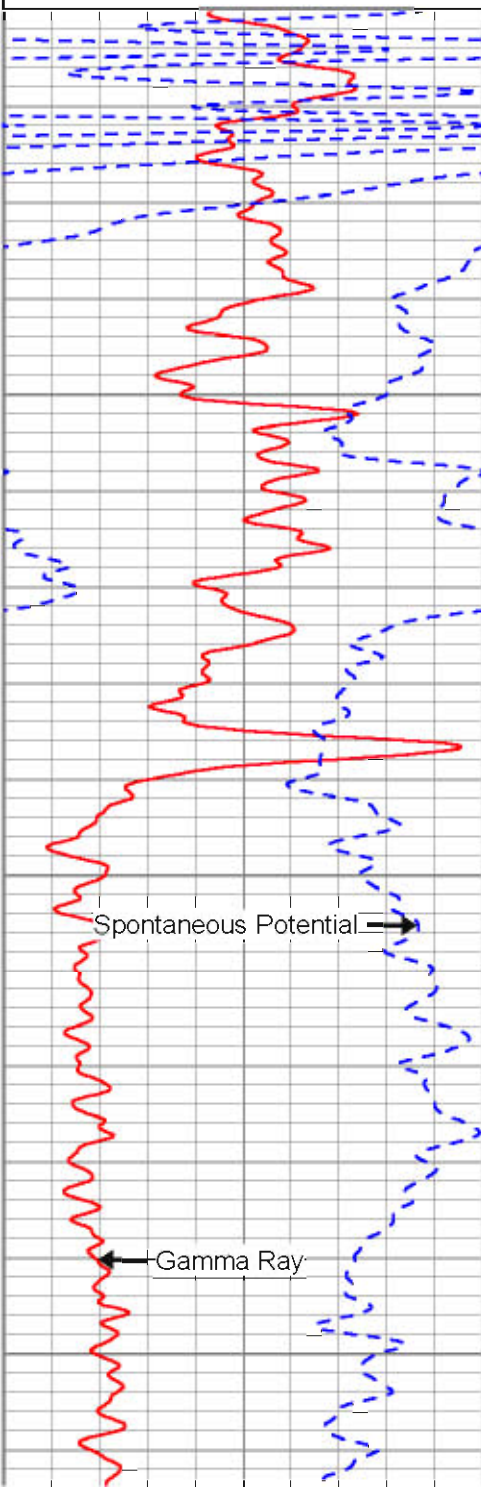
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: hiamw1.db
Dataset Pathname: run5/pass5
Presentation Format: dil
Dataset Creation: Sun Apr 11 19:23:10 2010 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	100
-100	Spontaneous Potential (mV)	100

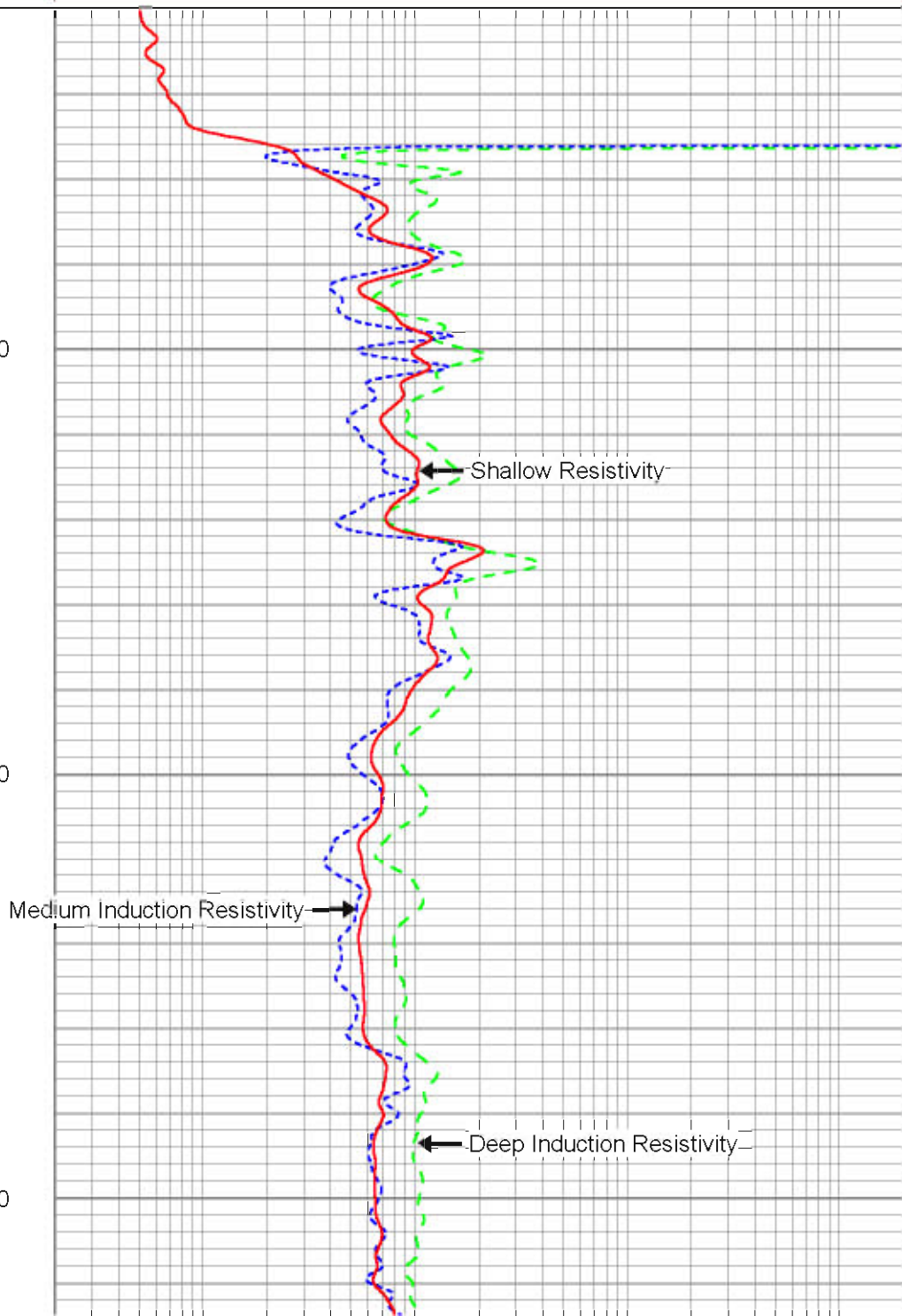
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000



1100

1150

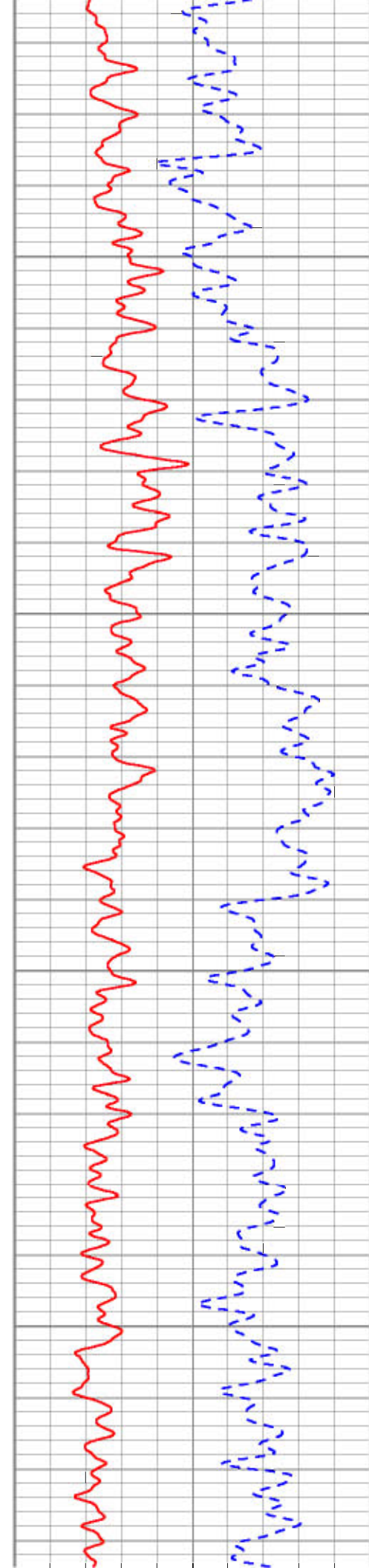
1200



Shallow Resistivity

Medium Induction Resistivity

Deep Induction Resistivity

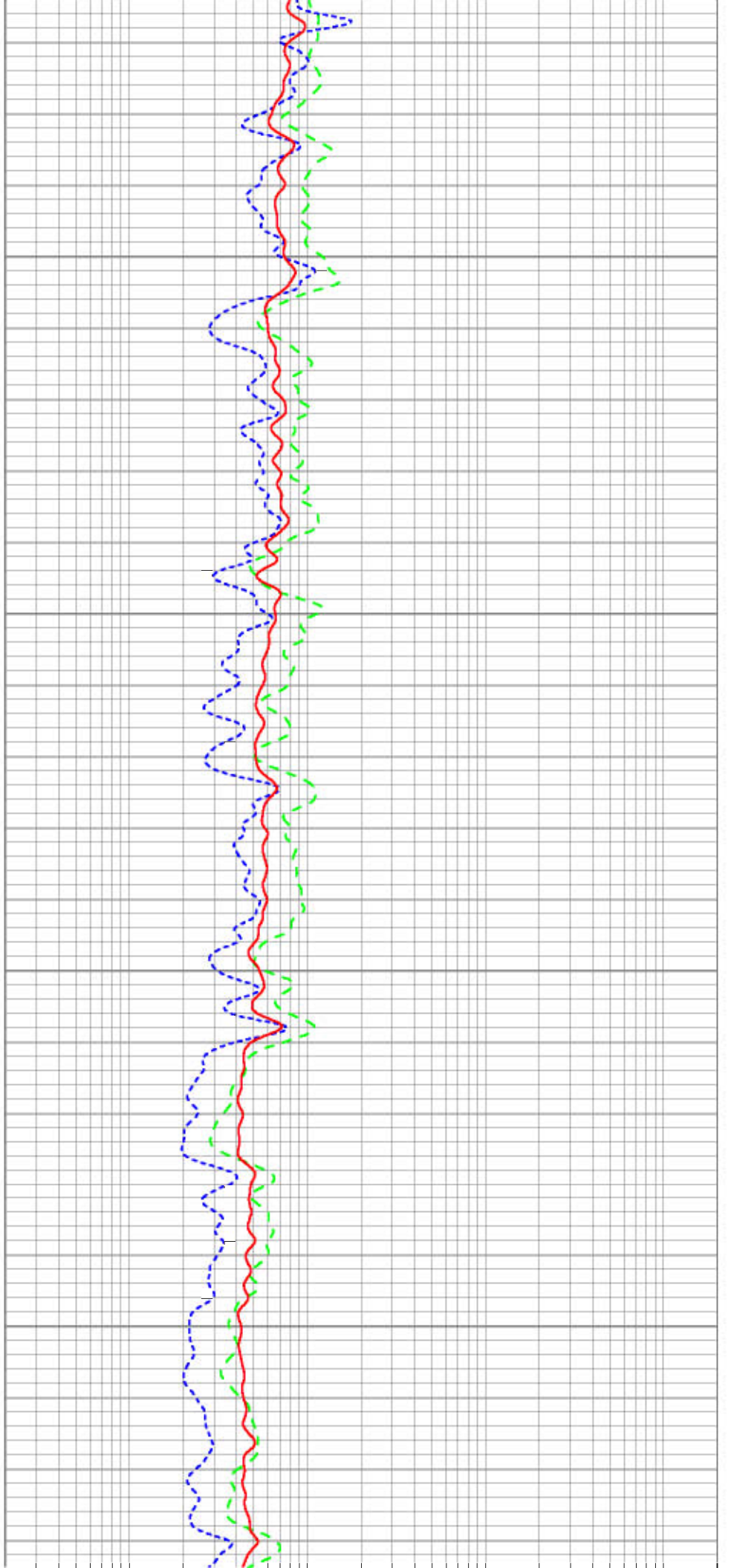


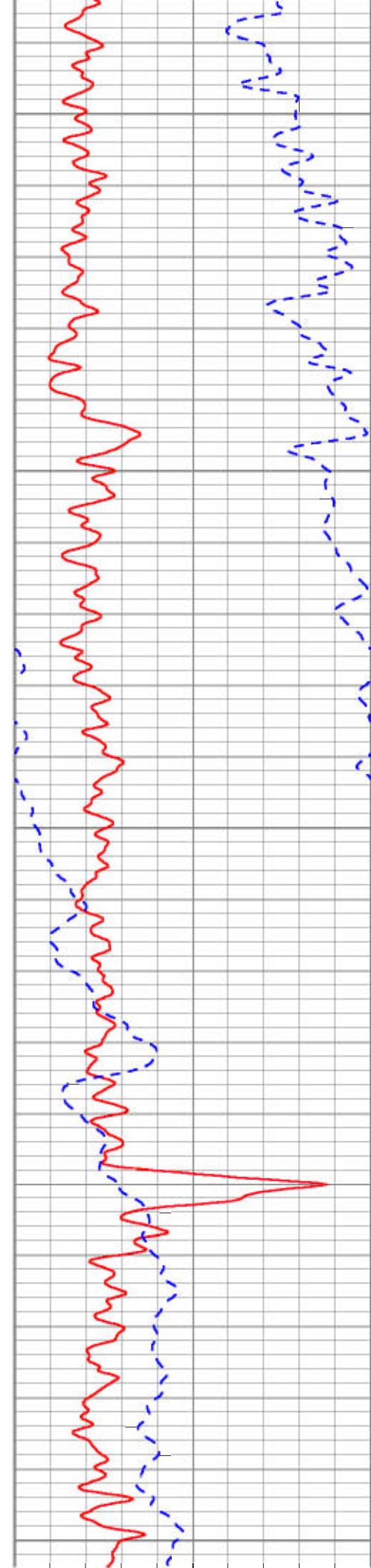
1250

1300

1350

1400





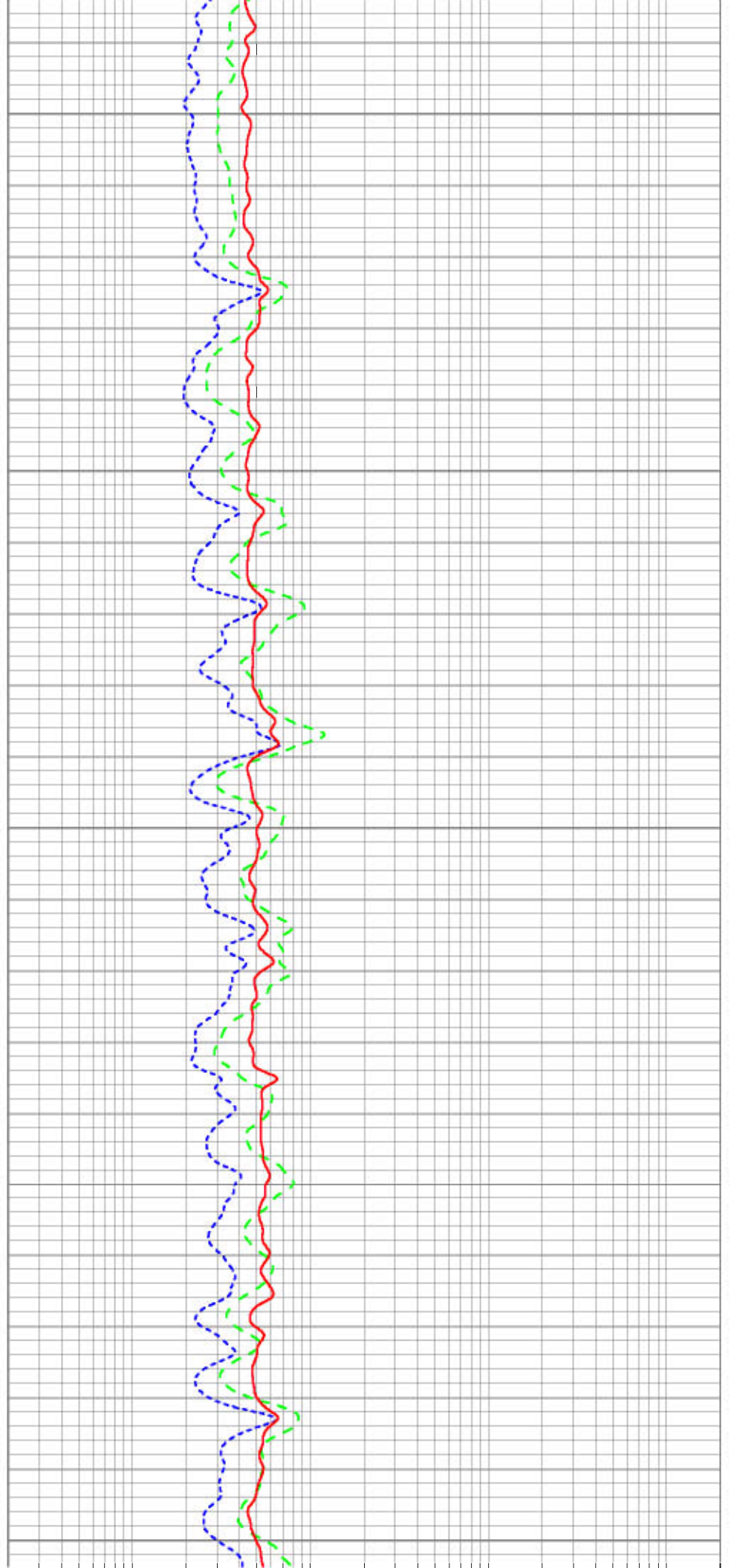
1450

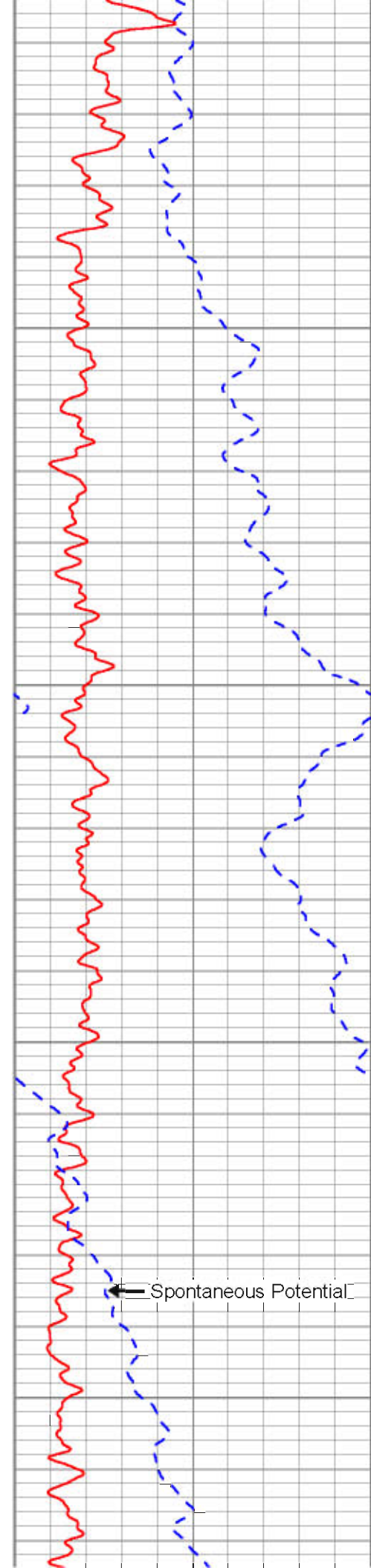
1500

1550

1600

1650





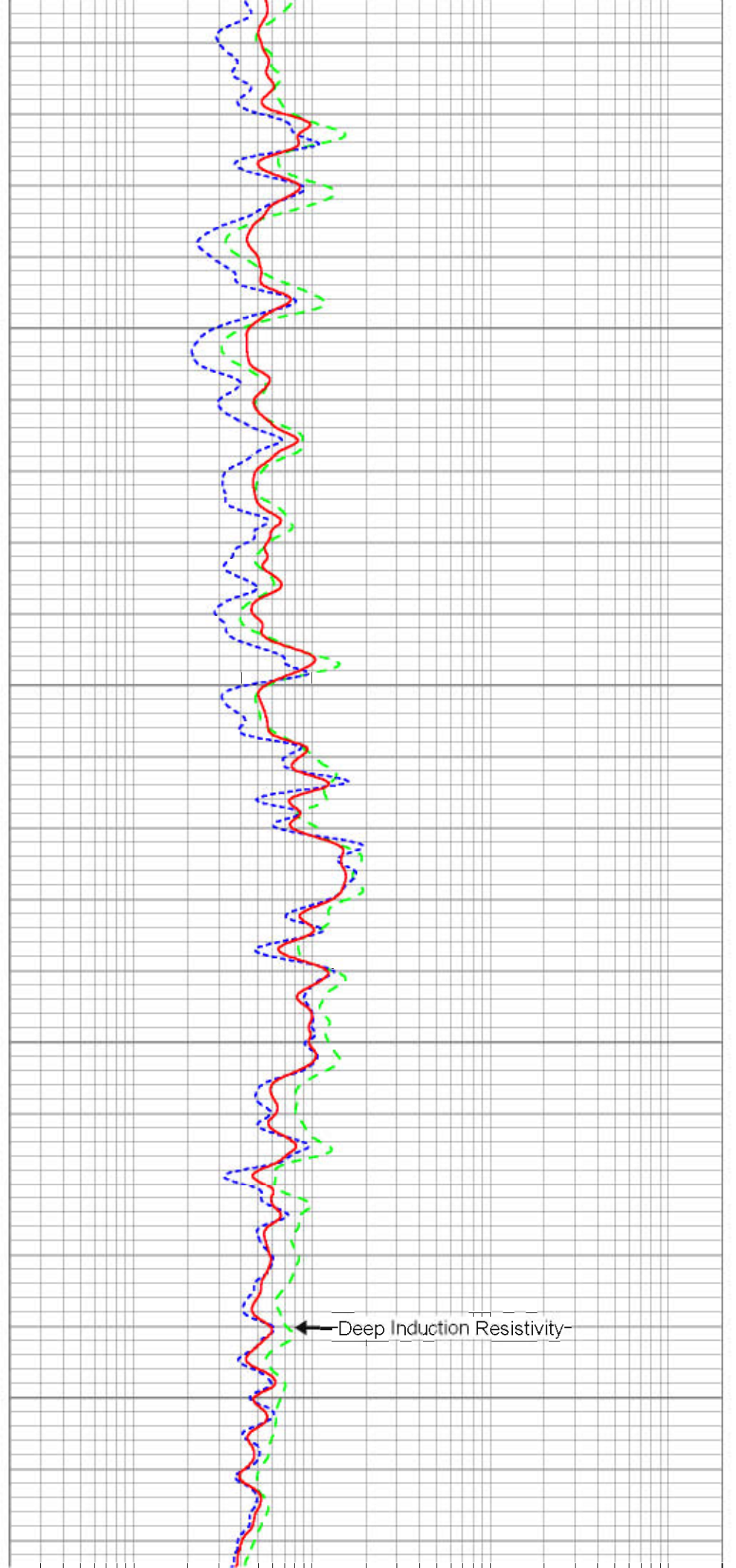
1700

1750

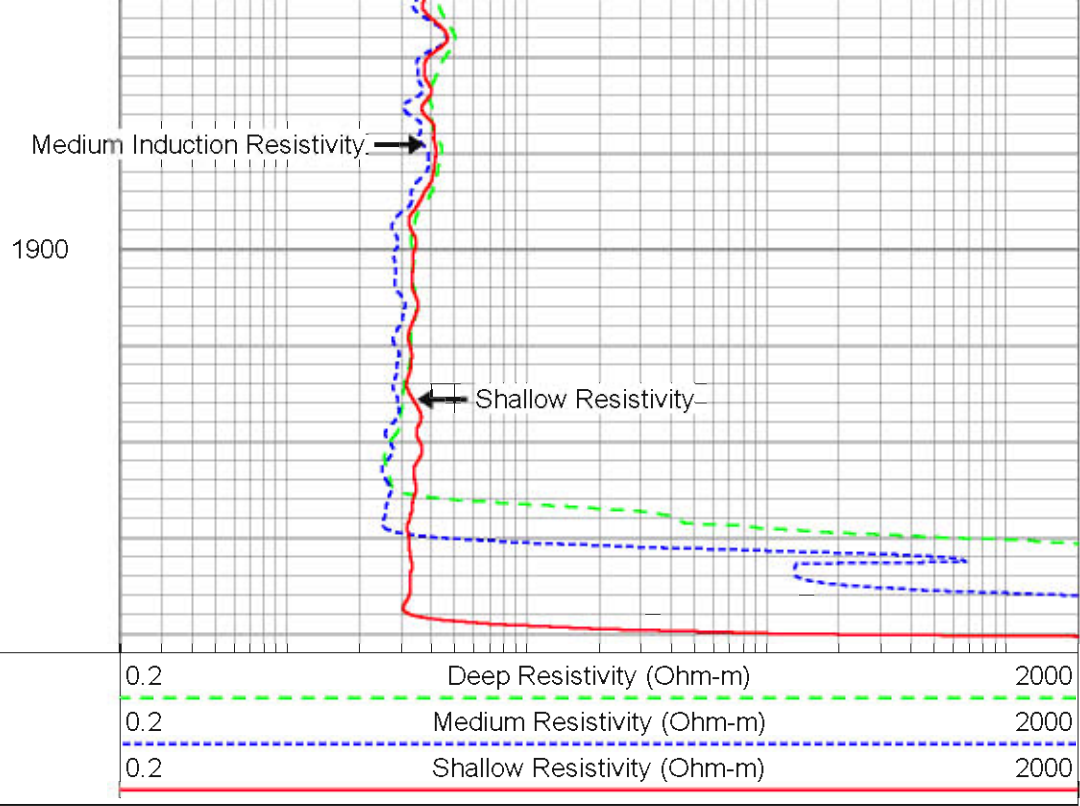
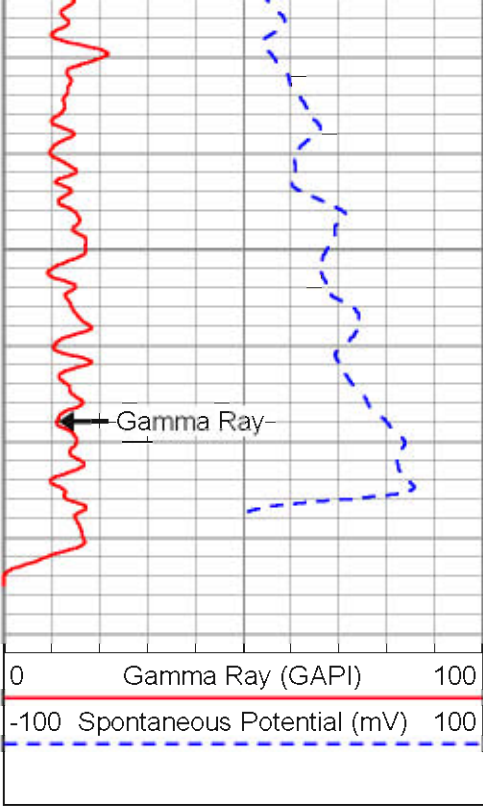
1800

1850

← Spontaneous Potential



← Deep Induction Resistivity





**YOUNGQUIST
BROTHERS, Inc**

GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

Database File: hiamw1.db

Dataset Pathname: run5/pass4

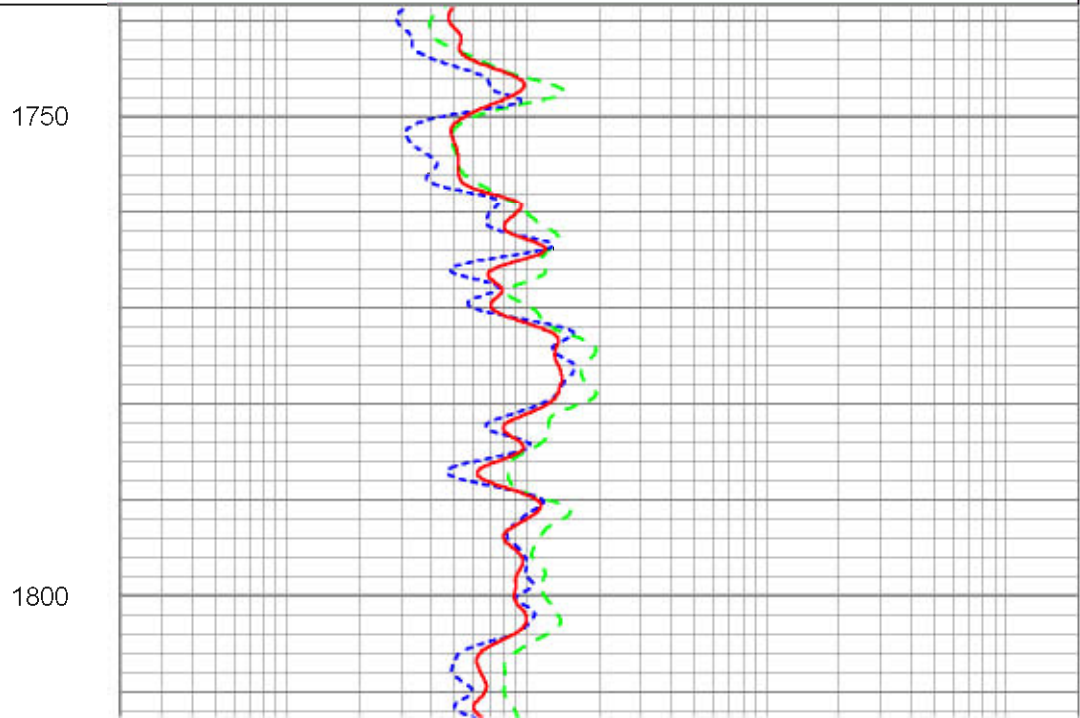
Presentation Format: dil

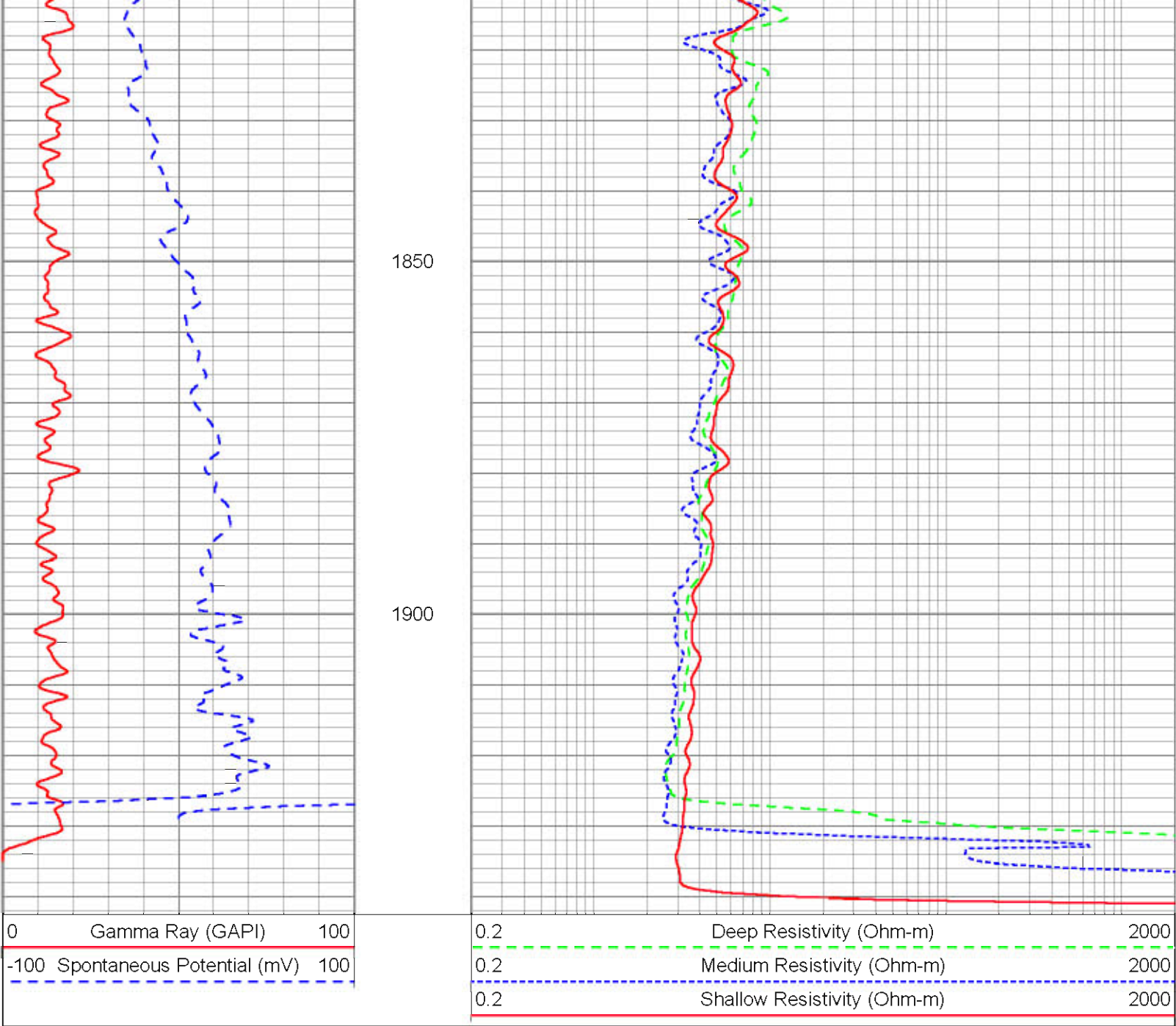
Dataset Creation: Sun Apr 11 19:13:14 2010 by Log Open-Cased 090629

Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	100
-100	Spontaneous Potential (mV)	100

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000



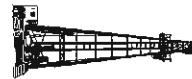


Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

CILD SP	15.88 15.88						
CILM	12.08			DIL-C (1010)	23.67	3.50	175.00
CLL3	3.13						
Dataset: hiamw1.db: field/well/run5/pass5 Total Length: 23.67 ft Total Weight: 175.00 lb O.D. 3.50 in							

Calibration Report								
Database File:	hiamw1.db							
Dataset Pathname:	run5/pass5							
Dataset Creation:	Sun Apr 11 19:23:10 2010 by Log Open-Cased 090629							
Dual Induction Calibration Report								
Serial-Model:			1010-C					
Surface Cal Performed:			Tue Jan 26 15:11:57 2010					
Downhole Cal Performed:			Sun Apr 11 18:54:58 2010					
After Survey Verification Performed:			Sun Apr 11 19:16:50 2010					
Surface Calibration								
Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.008	0.637	V	0.000	400.000	mmho/m	620.465	5.010
Medium	0.012	0.636	V	0.000	400.000	mmho/m	670.104	0.700

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.009	0.650	V	8.610	397.880	mmho/m	607.467	3.312
Medium	0.006	0.714	V	-1.120	462.890	mmho/m	656.087	-5.253
Downhole Calibration								
	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	9.218	404.207	mmho/m	10.422	408.021	mmho/m	1.007	1.143
Medium	-7.325	475.993	mmho/m	-4.510	475.835	mmho/m	0.994	2.770
Shallow	0.027	0.392		3.000	88.900	mmho/m	235.254	-3.309
After Survey Verification								
	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	9.047	404.794	mmho/m	9.218	404.207	mmho/m	1.007	1.143
Medium	-5.762	472.660	mmho/m	-7.325	475.993	mmho/m	0.994	2.770
Shallow	3.561	89.278	mmho/m	3.000	88.900	mmho/m	1.002	-0.569



**YOUNGQUIST
BROTHERS, Inc**
GEOPHYSICAL LOGGING DIVISION

**FLUID CONDUCTIVITY
TEMPERATURE
LOG**

Company CITY OF HIALEAH
Well MW-1
Field HIALEAH R.O.W.T.P.
County DADE
State FL

Company CITY OF HIALEAH
Well MW-1
Field HIALEAH R.O.W.T.P.
County DADE State FL

Location: API # :

Other Services
SEE
COMMENTS

SEC TWP RGE

Elevation

Permanent Datum
Log Measured From
Drilling Measured From

K.B.
D.F.
G.L.

Date Run Number 11-APRIL-2010

Depth Driller FIVE

Depth Logger 1940'

Bottom Logged Interval 1940'

Top Log Interval CASING

Open Hole Size 12.25"

Type Fluid WATER

Density / Viscosity NA

Max. Recorded Temp. NA

Estimated Cement Top NA

Time Well Ready 1730

Time Logger on Bottom 1800

Equipment Number 103

Location FT MYERS

Recorded By CATHEY

Witnessed By D. LEGGETT

Borehole Record				Borehole Record			
Run Number	Bit	From	To	Run No	Bit	From	To
ONE	40.5"	SURFACE	157'				
TWO	28.5"	CASING	1076'				
THREE	12.25"	CASING	1940'				
Casing Record							
Surface String	Size		Wgt/Ft		Top		Bottom
	30"		.375" W.T.		SURFACE		156'
Prot. String	20"		.375 W.T.		SURFACE		1076'
Production String							
liner							

<<< 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.

Comments

OTHER SERVICES:

X-Y CALIPER / GAMMA RAY
SONIC
BOREHOLE TELEVIEWER
FLUID CONDUCTIVITY / TEMP
DUAL INDUCTION

DYNAMIC FLOWRATE = 250 GPM

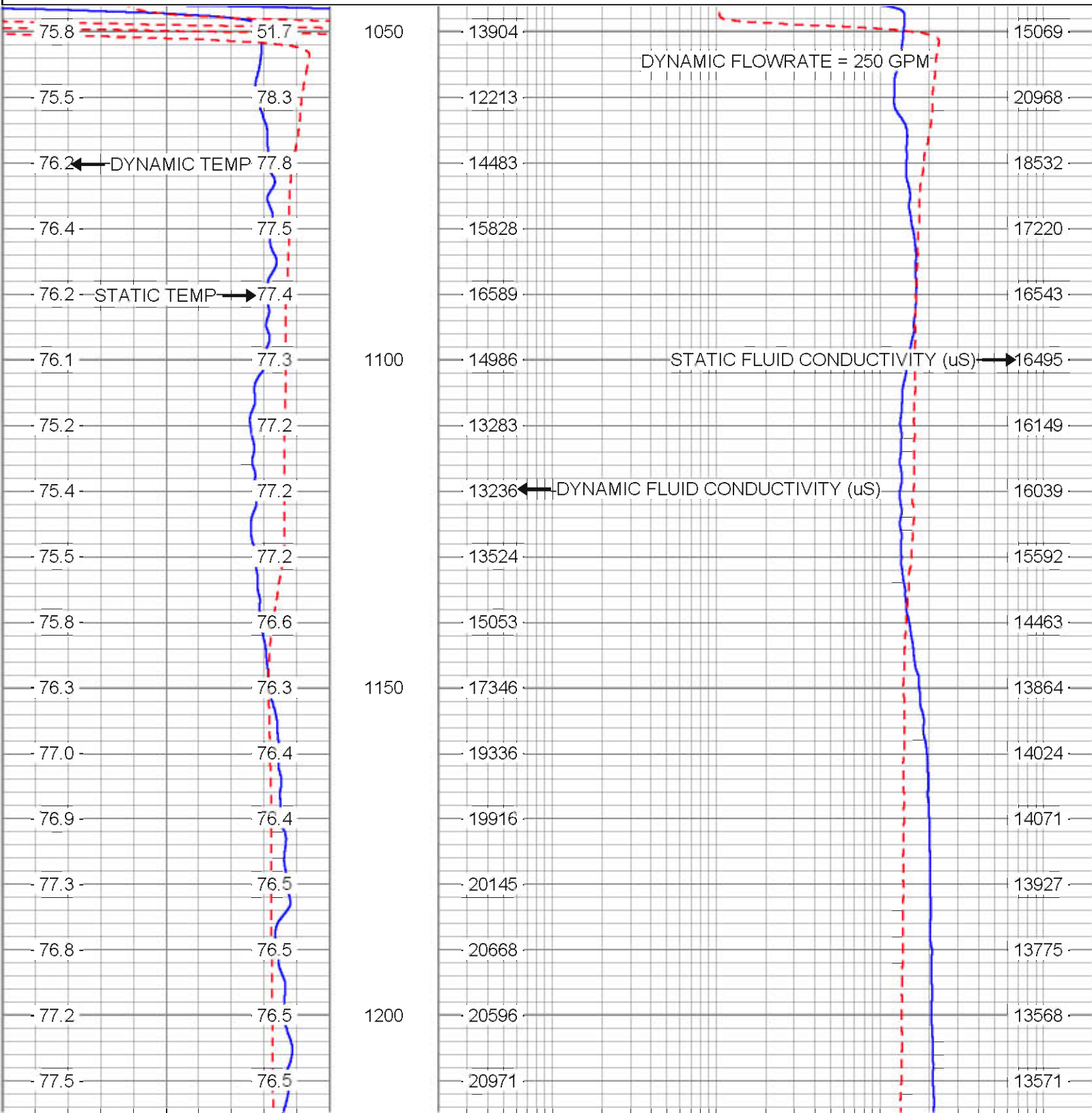


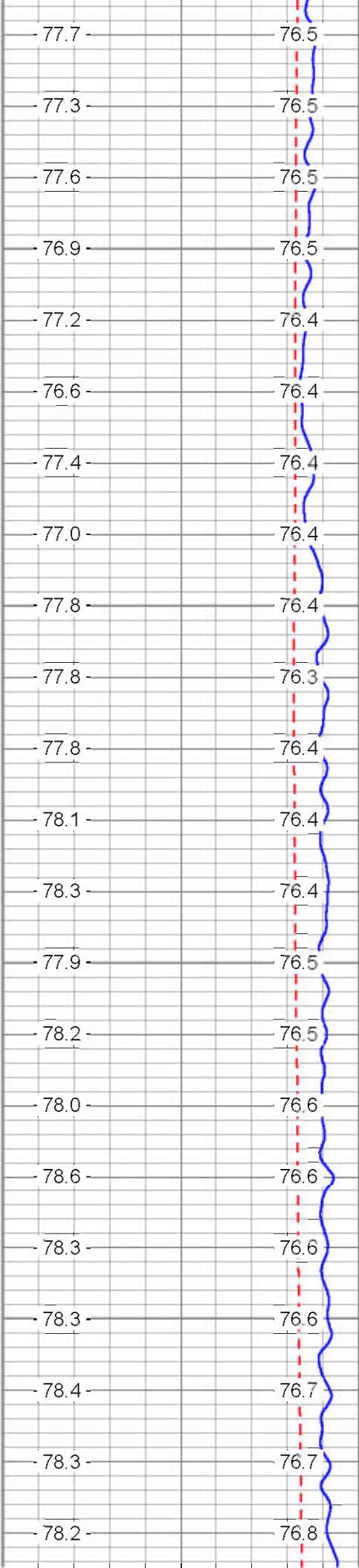
**YOUNGQUIST
BROTHERS, Inc**

MERGED FCT

Database File: hiamw1.db
 Dataset Pathname: run5/pass11
 Presentation Format: firt_mg
 Dataset Creation: Mon Apr 12 01:56:08 2010 by Log Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

60	DYNAMIC TEMP (degF)	80	20	DYNAMIC FLUID CONDUCTIVITY (uS) (uS/cm)	200000
60	STATIC TEMP (degF)	80	20	STATIC FLUID CONDUCTIVITY (uS) (uS/cm)	200000
DYNAMIC TEM	STATIC TEMF		DYNAMIC	STATIC	
(degF)	(degF)				



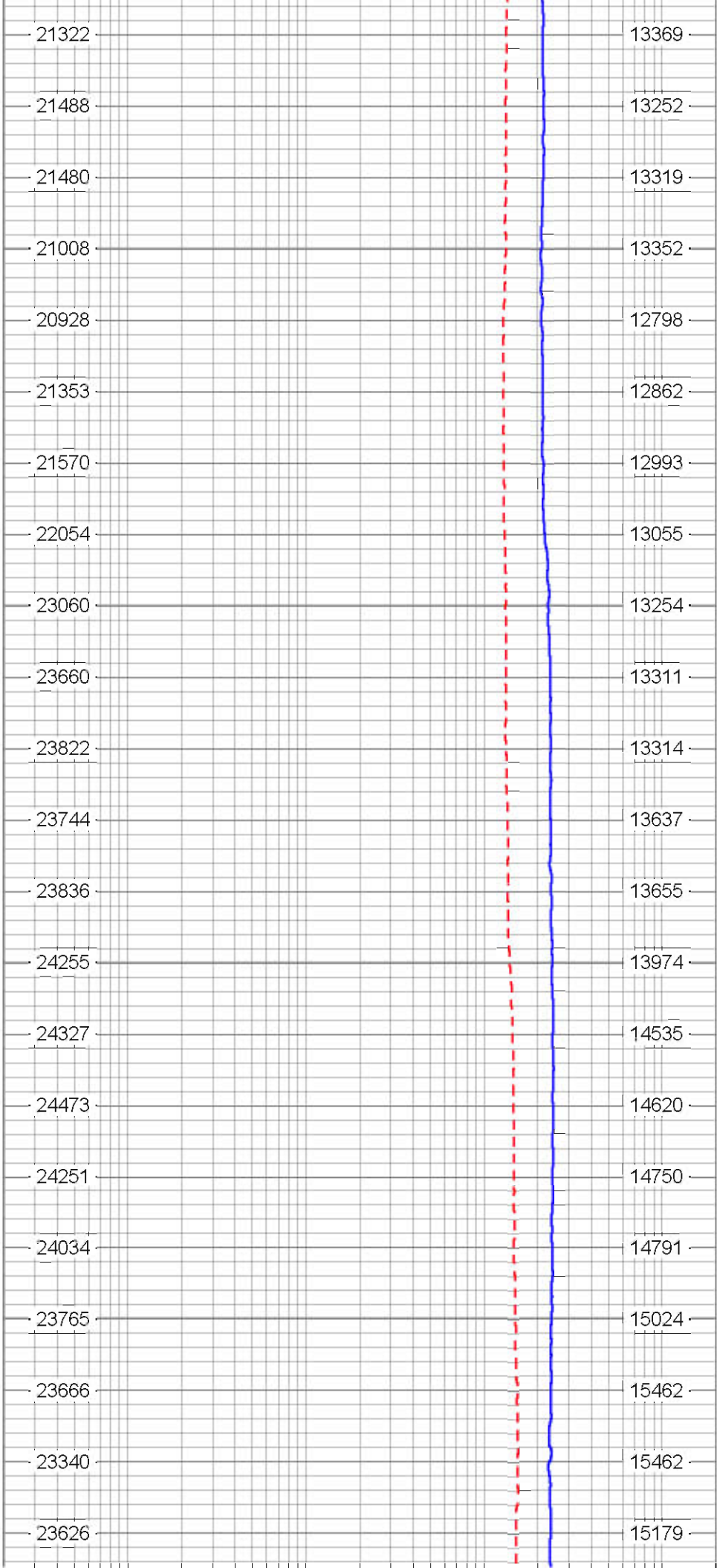


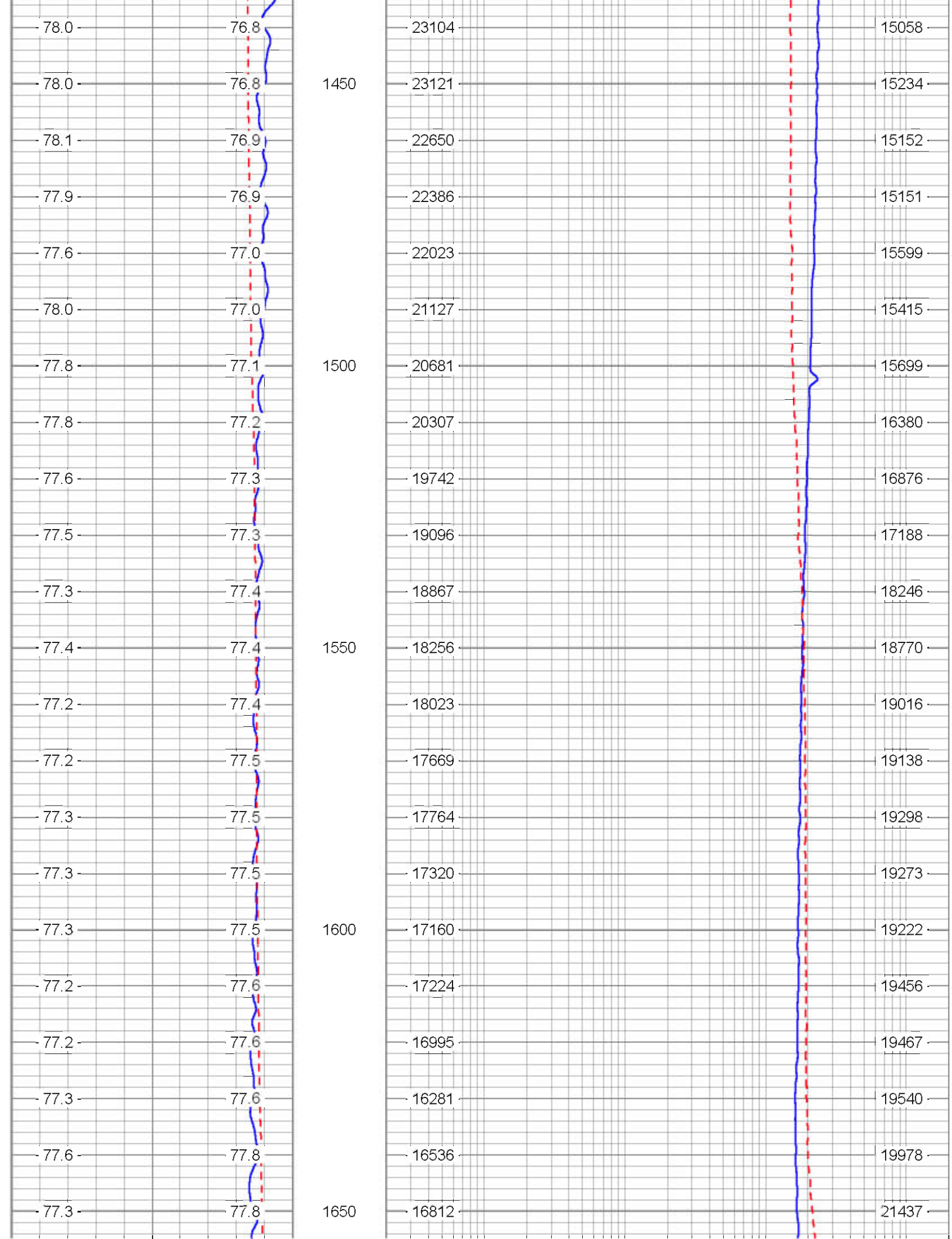
1250

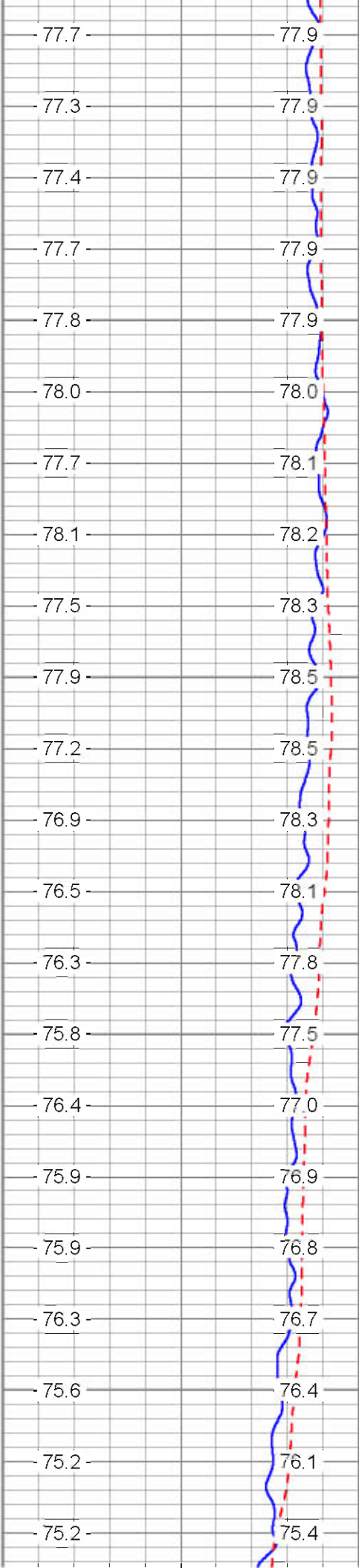
1300

1350

1400





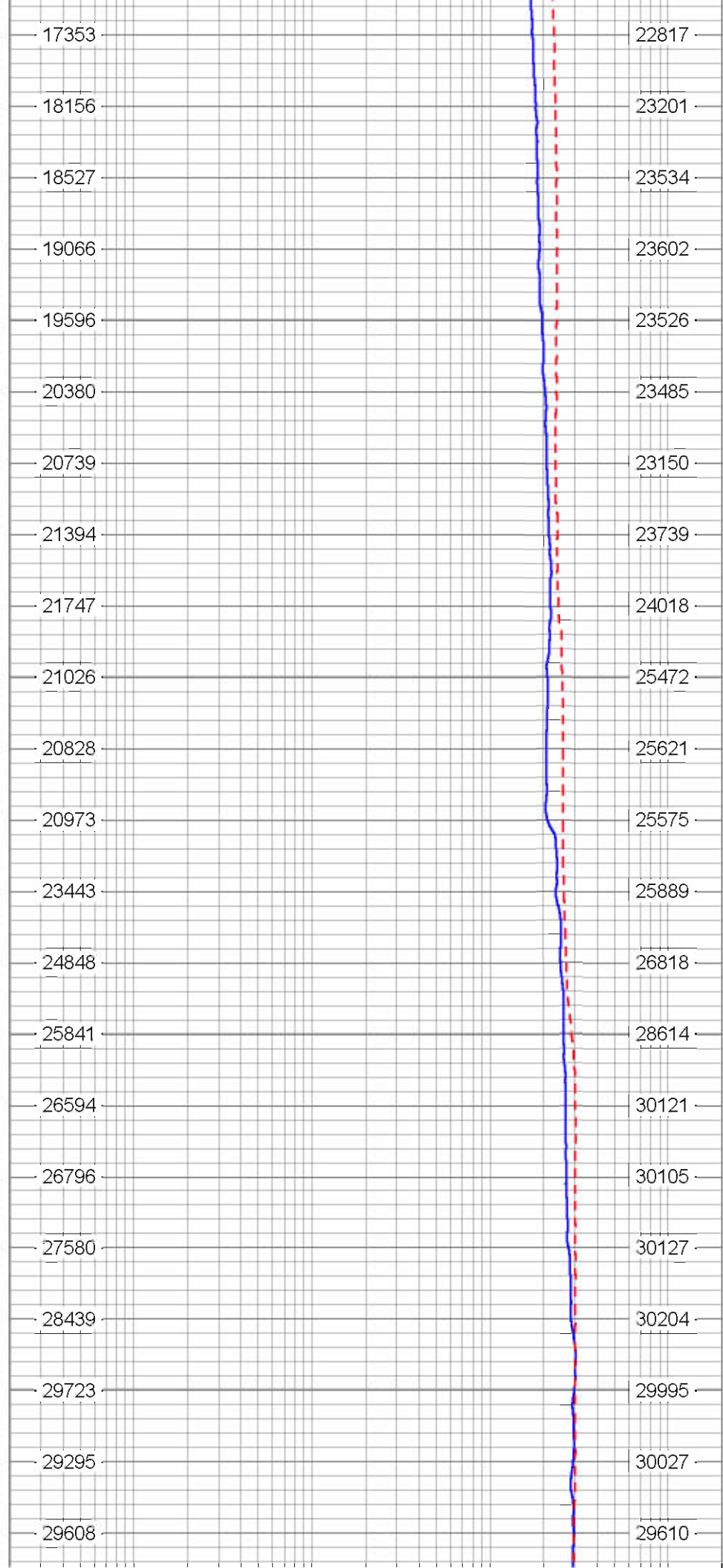


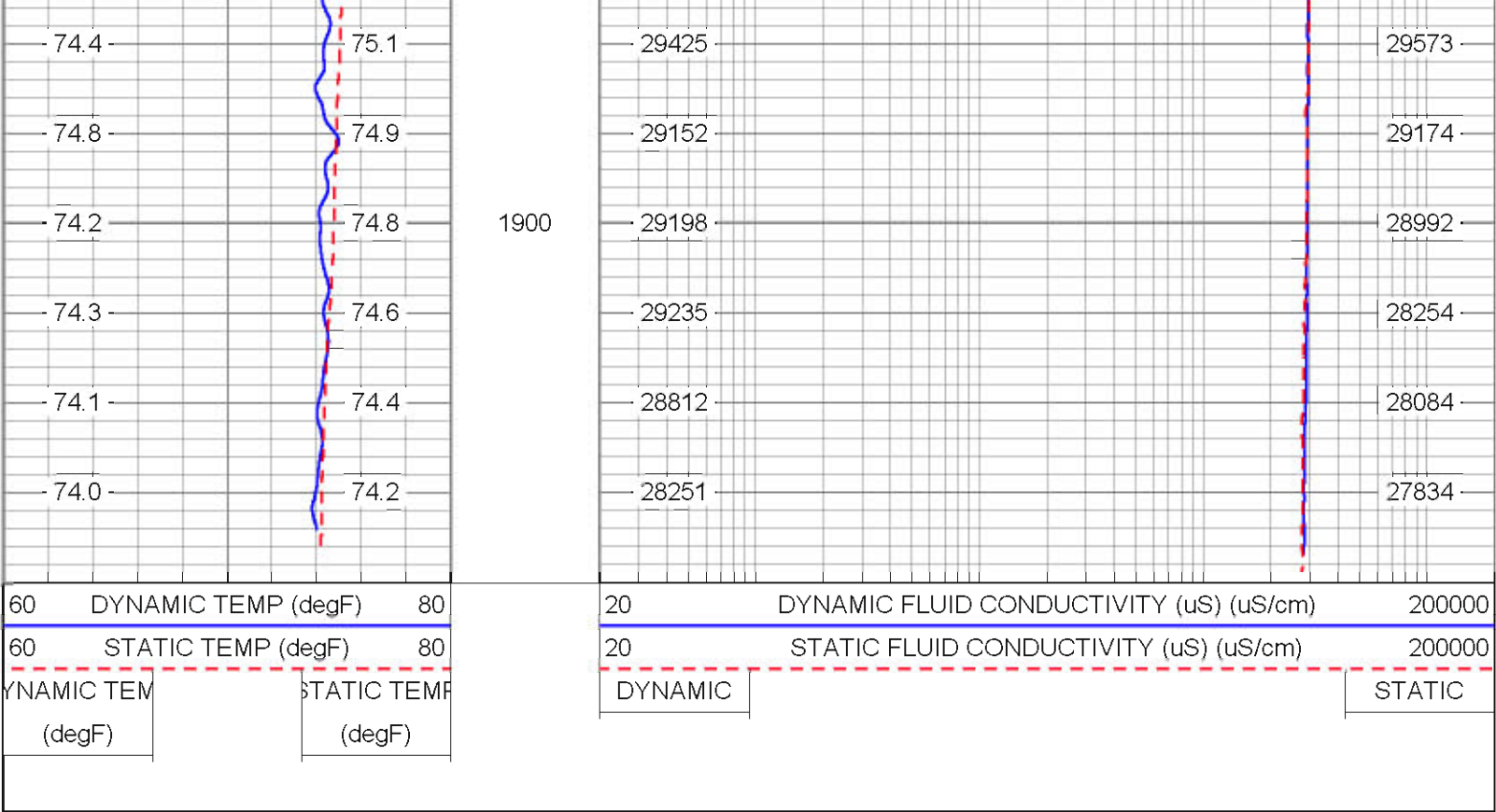
1700

1750

1800

1850





Calibration Report

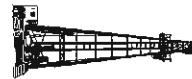
Database File: hiamw1.db
Dataset Pathname: run5/pass1
Dataset Creation: Sun Apr 11 17:36:43 2010 by Log Open-Cased 090629

FRT Calibration Report					
		Serial Number:		31	
		Tool Model:		SONDEX	
		Performed:		Fri Feb 19 14:30:36 2010	
Point #	Reading			Reference	
1	0.731	cps		1100.000	uS/cm
2	116.541	cps		10000.000	uS/cm
3	401.744	cps		25000.000	uS/cm
4	1152.340	cps		50000.000	uS/cm
5		cps			uS/cm
6		cps			uS/cm
7		cps			uS/cm
8		cps			uS/cm
9		cps			uS/cm
10		cps			uS/cm

Temperature Calibration Report					
		Serial Number:		31	
		Tool Model:		SONDEX	
		Performed:		Fri Feb 19 14:24:21 2010	
Point #	Reading			Reference	
1	119.10	cps		34.00	degF
2	334.81	cps		82.00	degF
3	698.66	cps		158.00	degF
4		cps			degF
5		cps			degF
6		cps			degF

7	cps	degF
8	cps	degF
9	cps	degF
10	cps	degF

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
TEMP FRES	0.70		TEMP-SONDEX (31)	1.20	1.63	10.00
	0.50		FRT-SONDEX (31)	0.60	1.69	10.00
Dataset: hiamw1.db: field/well/run5/pass1 Total Length: 1.80 ft Total Weight: 20.00 lb O.D. 1.69 in						



**YOUNGQUIST
BROTHERS, Inc**
GEOPHYSICAL LOGGING DIVISION

FLOWMETER LOG

Company CITY OF HIALEAH
Well MW-1
Field HIALEAH R.O.W.T.P.
County DADE
State FL

Company CITY OF HIALEAH
Well MW-1
Field HIALEAH R.O.W.T.P.
County DADE State FL

Location:

API # :

Other Services
SEE
COMMENTS

SEC TWP RGE

Elevation

Elevation

Permanent Datum
Log Measured From
Drilling Measured From

K.B.
D.F.
G.L.

Date 11-APRIL-2010

Run Number	FIVE		
Depth Driller	1940'		
Depth Logger	1940'		
Bottom Logged Interval	1940'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	NA		
Time Well Ready	1730		
Time Logger on Bottom	1800		
Equipment Number	103		
Location	FT MYERS		
Recorded By	CATHEY		
Witnessed By	D. LEGGETT		

Borehole Record				Borehole Record			
Run Number	Bit	From	To	Run No	Bit	From	To
ONE	40.5"	SURFACE	157'				
TWO	28.5"	CASING	1076'				
THREE	12.25"	CASING	1940'				
Casing Record							
Surface String	Size		Wgt/Ft		Top		Bottom
	30"		.375" W.T.		SURFACE		156'
Prot. String	20"		.375 W.T.		SURFACE		1076'
Production String							
liner							

<<< 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.

Comments

OTHER SERVICES:

X-Y CALIPER / GAMMA RAY
SONIC
BOREHOLE TELEVIEWER
FLUID CONDUCTIVITY / TEMP
DUAL INDUCTION

DYNAMIC FLOWRATE = 250 GPM



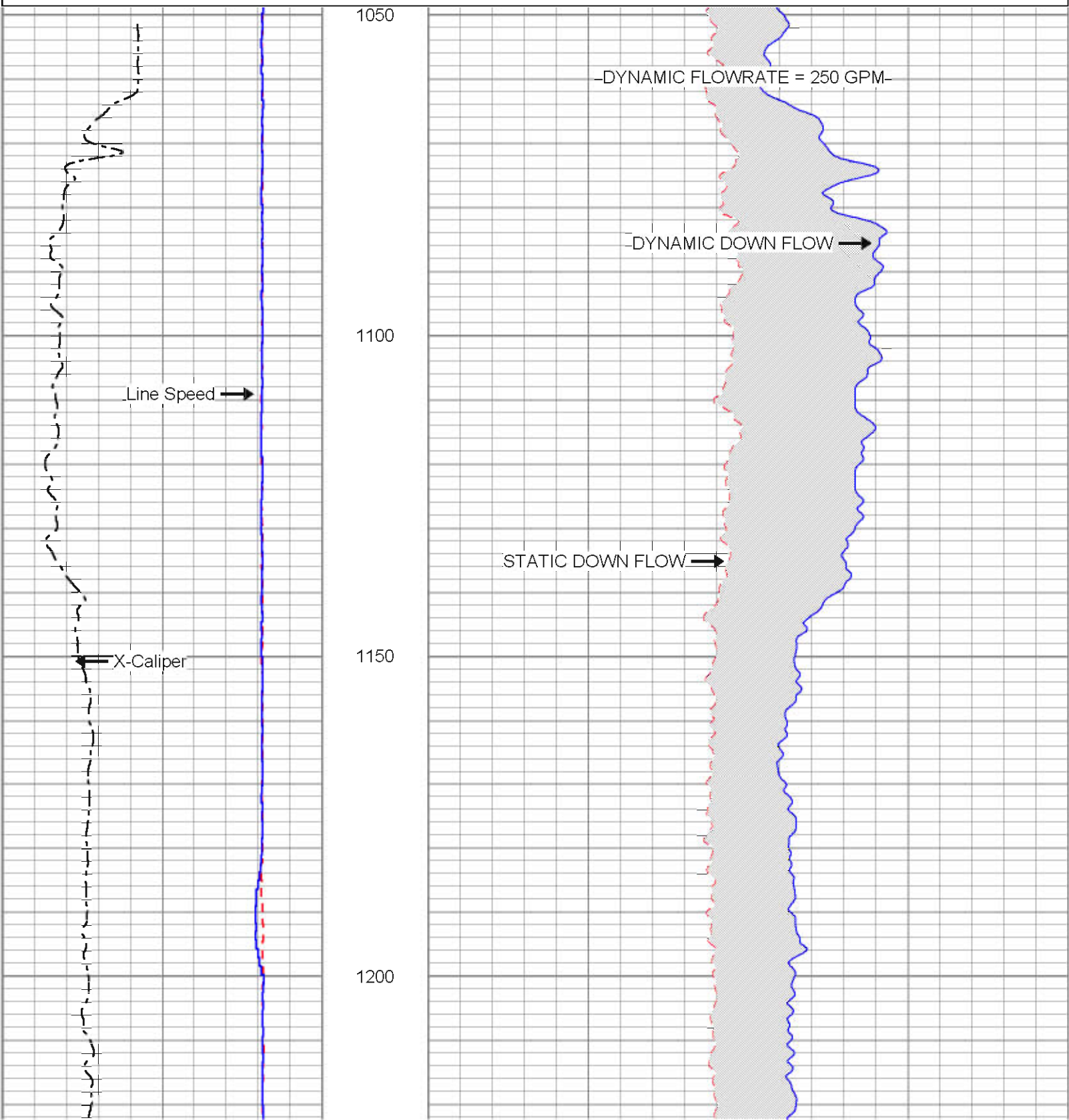
**YOUNGQUIST
BROTHERS, Inc**

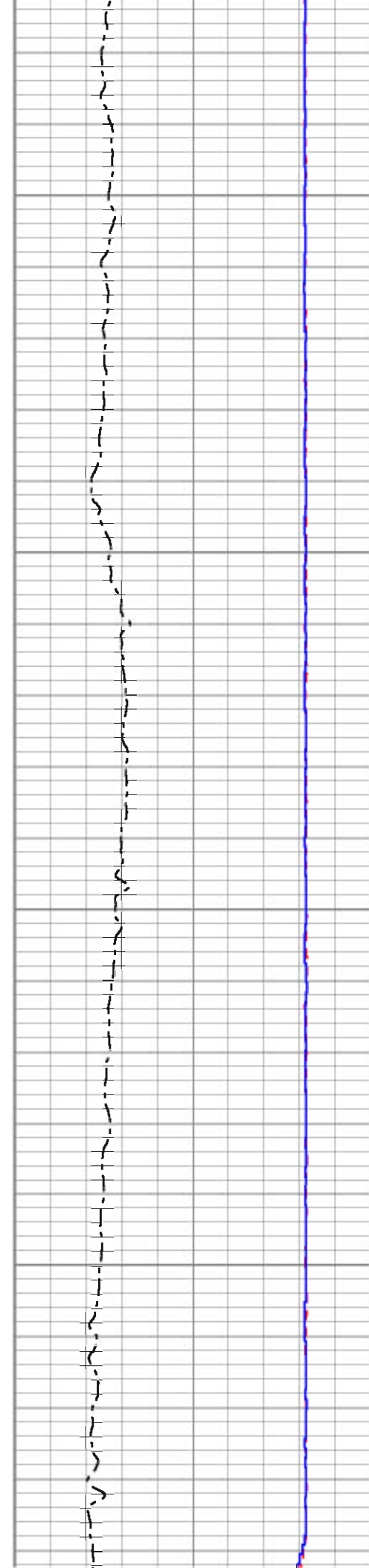
MERGED FLOWMETER

Database File: hiamw1.db
 Dataset Pathname: run5/pass10
 Presentation Format: fm_dnmg
 Dataset Creation: Mon Apr 12 01:12:12 2010 by Log Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0 L.S. STATIC DOWN (ft/min) 100
 0 L.S. DYNAMIC DOWN (ft/min) 100
 10 XCAL (in) 30

0 DYNAMIC DOWN FLOW (cps) 60
 0 STATIC DOWN FLOW (cps) 60



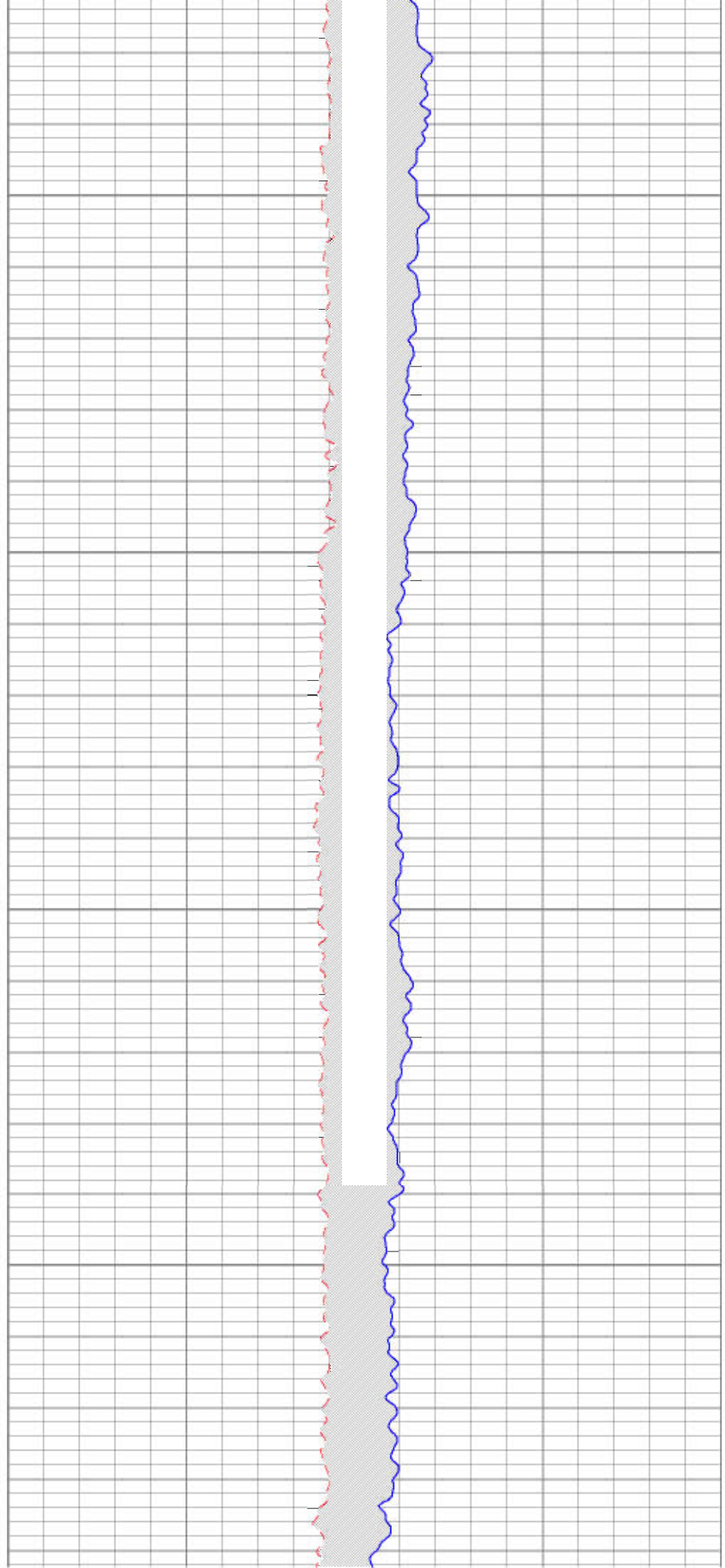


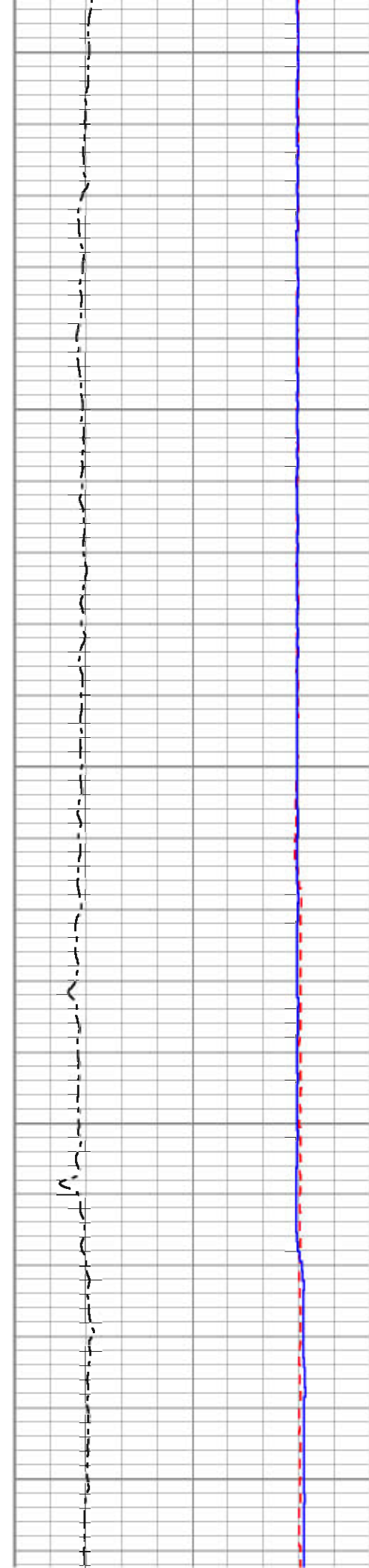
1250

1300

1350

1400





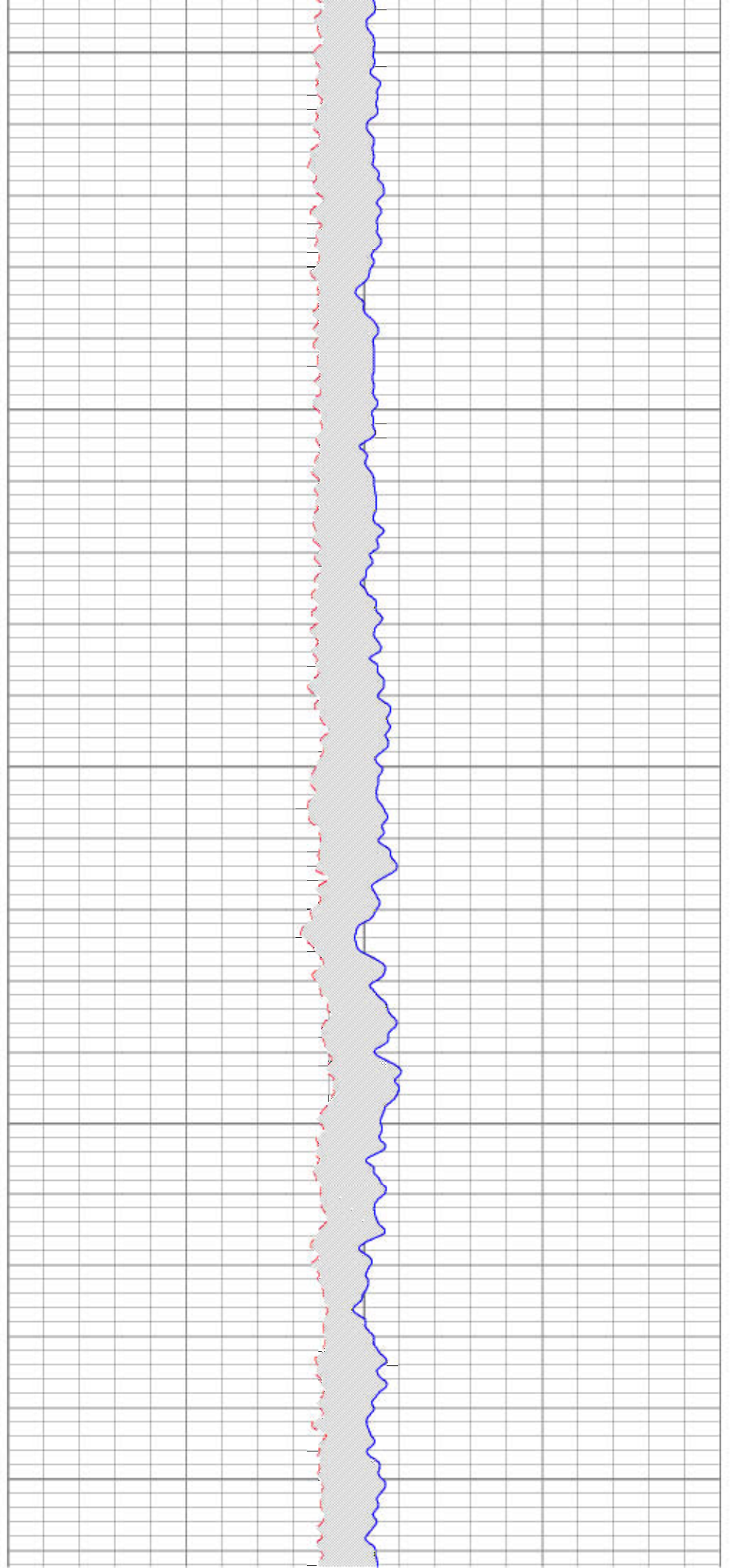
1450

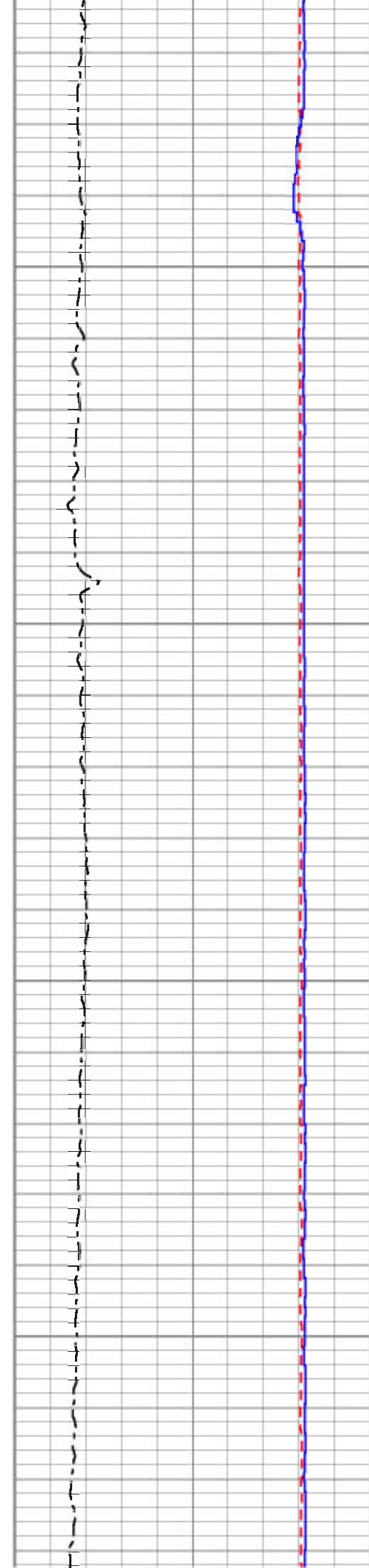
1500

1550

1600

1650



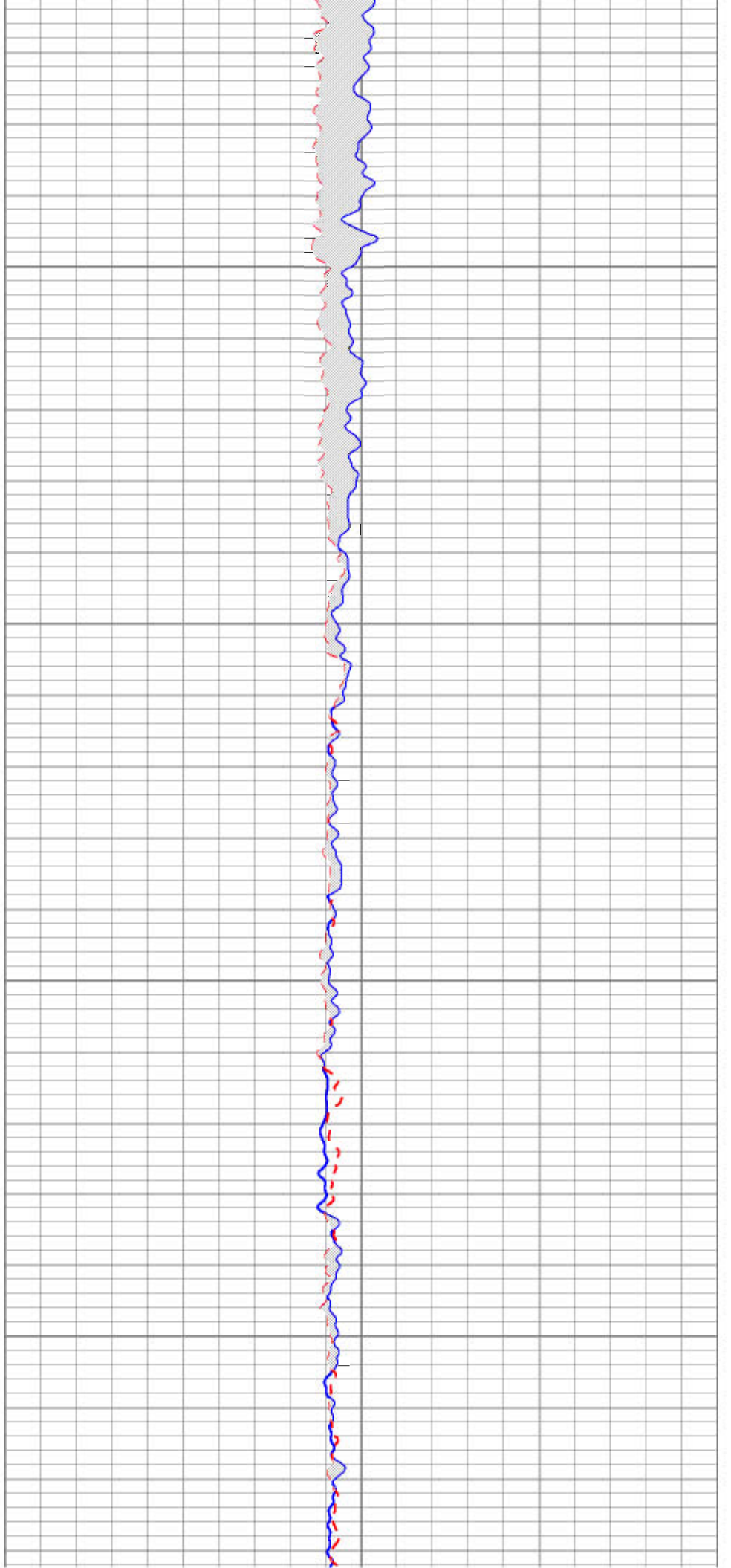


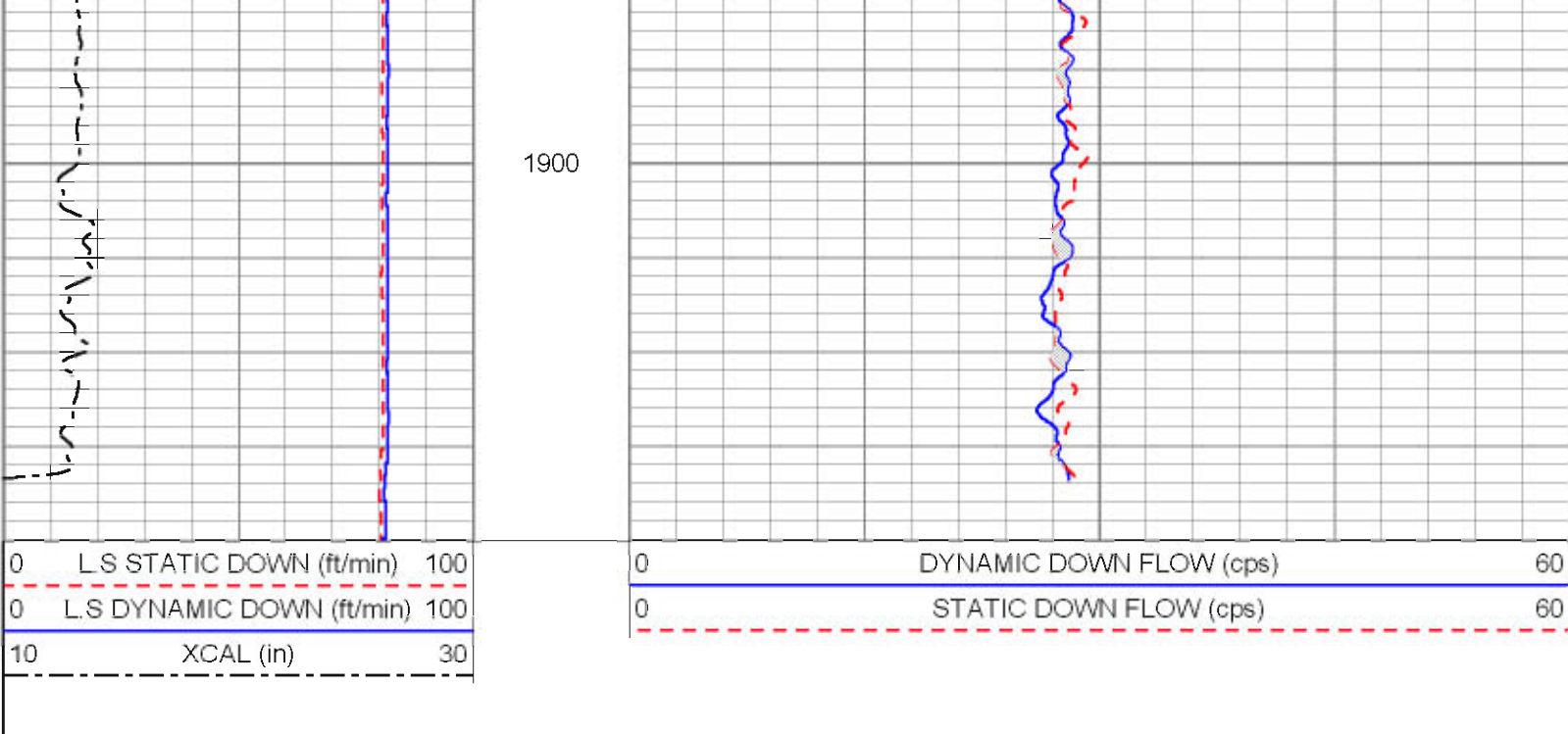
1700

1750

1800

1850

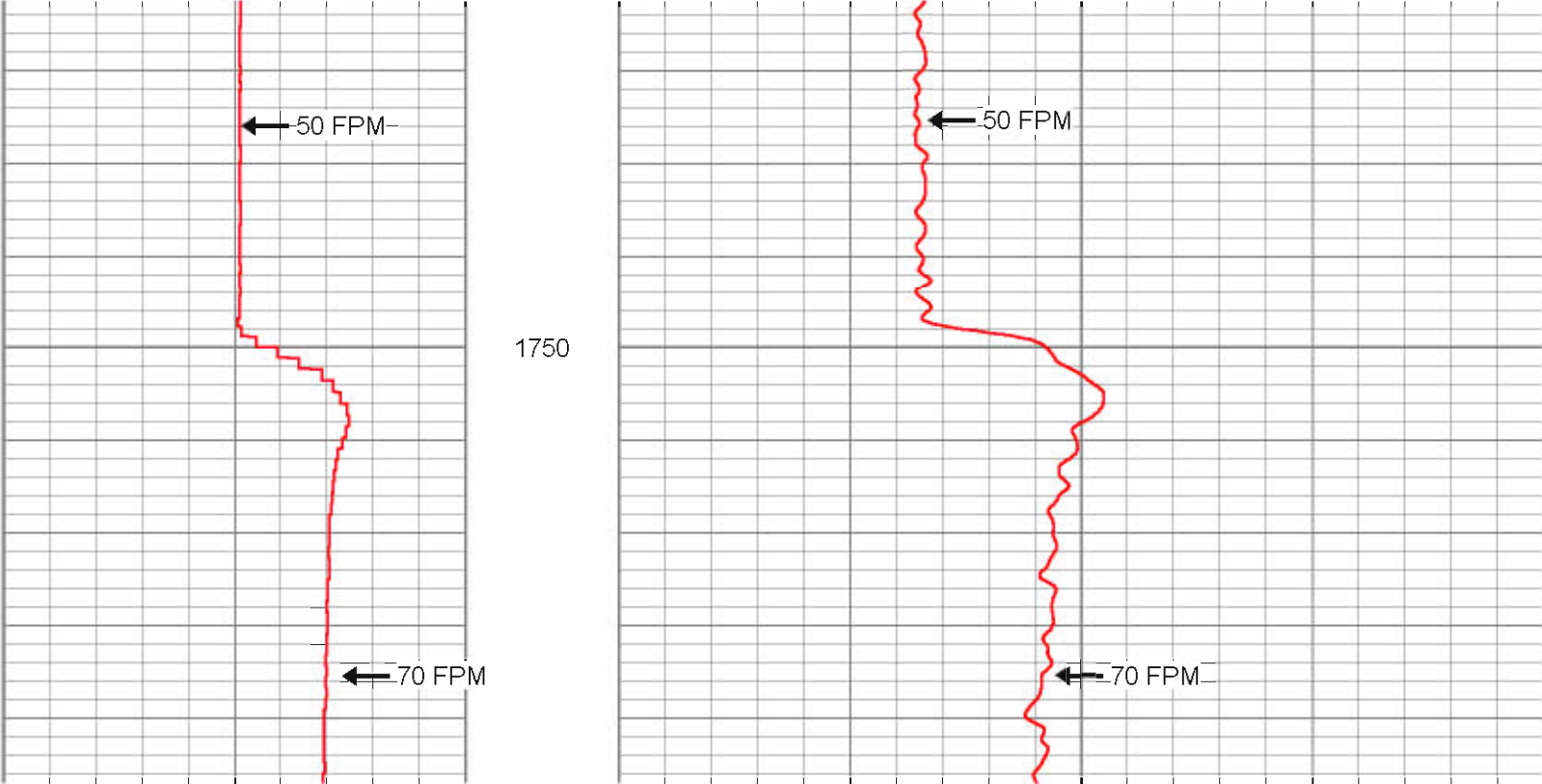


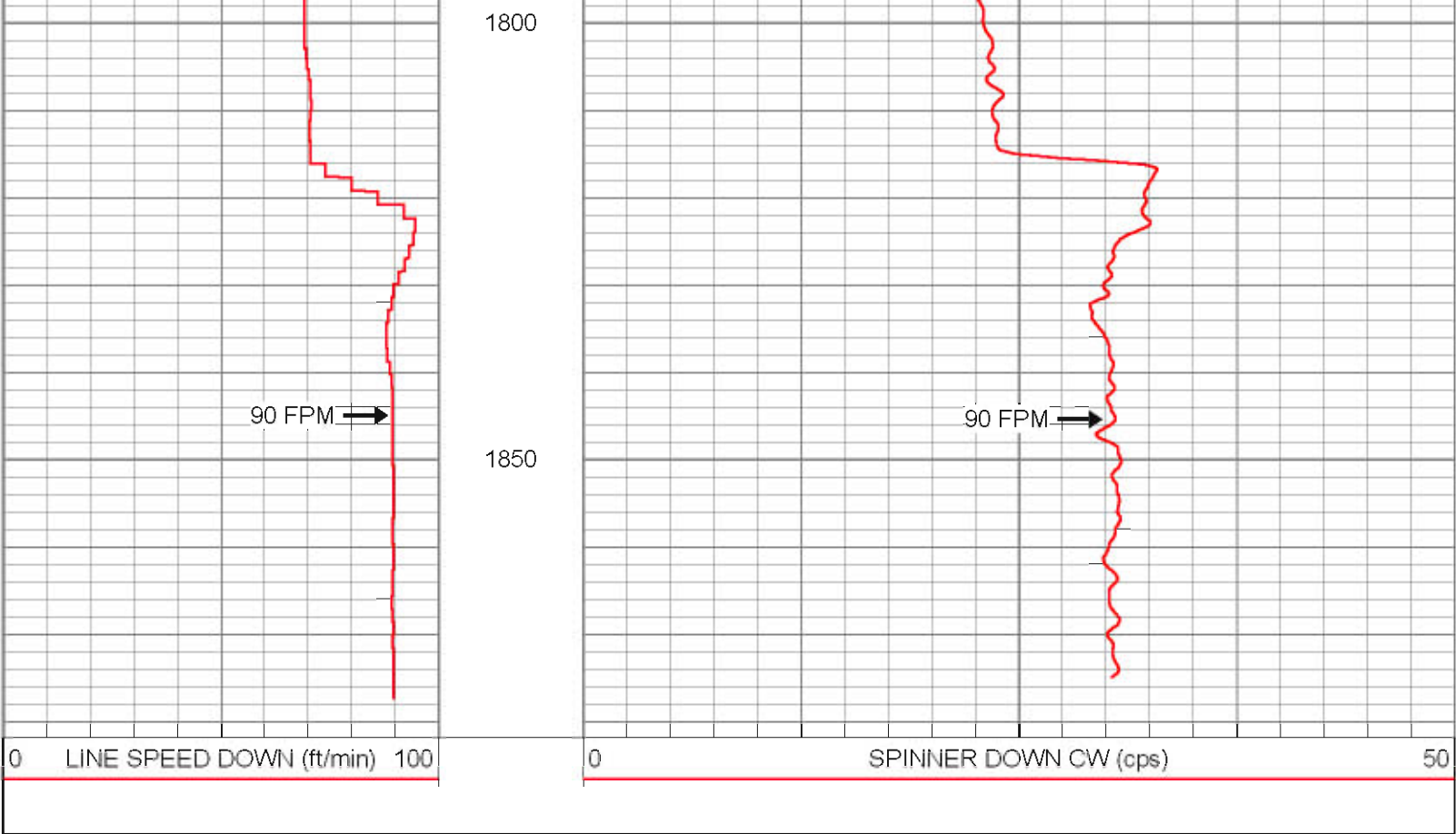


 **YOUNGQUIST BROTHERS, Inc**
GEOPHYSICAL LOGGING DIVISION

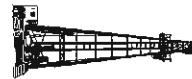
FLOW CALS 50,70,90 FPM

Database File: hiamw1.db
Dataset Pathname: run5/pass9
Presentation Format: flowcals
Dataset Creation: Mon Apr 12 00:57:57 2010 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:240





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			8FTSB	8.00	1.69	70.00



**YOUNGQUIST
BROTHERS, Inc**
GEOPHYSICAL LOGGING DIVISION

**X-Y CALIPER
GAMMA RAY
LOG**

Company CITY OF HIALEAH
Well MW-1
Field HIALEAH R.O.W.T.P.
County DADE
State FL

Company CITY OF HIALEAH
Well MW-1
Field HIALEAH R.O.W.T.P.
County DADE State FL

Location: API # :

Other Services
SEE
COMMENTS

SEC TWP RGE

Elevation

Permanent Datum
Log Measured From
Drilling Measured From

K.B.
D.F.
G.L.

Date Run Number 11-APRIL-2010

Depth Driller FIVE

Depth Logger 1940'

Bottom Logged Interval 1940'

Top Log Interval CASING

Open Hole Size 12.25"

Type Fluid WATER

Density / Viscosity NA

Max. Recorded Temp. NA

Estimated Cement Top NA

Time Well Ready 1730

Time Logger on Bottom 1800

Equipment Number 103

Location FT MYERS

Recorded By CATHEY

Witnessed By M. OSBORN

Borehole Record				Borehole Record			
Run Number	Bit	From	To	Run No	Bit	From	To
ONE	40.5"	SURFACE	157'				
TWO	28.5"	CASING	1076'				
THREE	12.25"	CASING	1940'				
Casing Record							
Surface String	Size		Wgt/Ft		Top		Bottom
	30"		.375" W.T.		SURFACE		156'
Prot. String	20"		.375 W.T.		SURFACE		1076'
Production String							
liner							

<<< 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.

Comments

OTHER SERVICES:

DUAL INDUCTION
SONIC
BOREHOLE TELEVIEWER
FLUID CONDUCTIVITY / TEMP
FLOWMETER

BOREHOLE VOLUME IN BARRELS

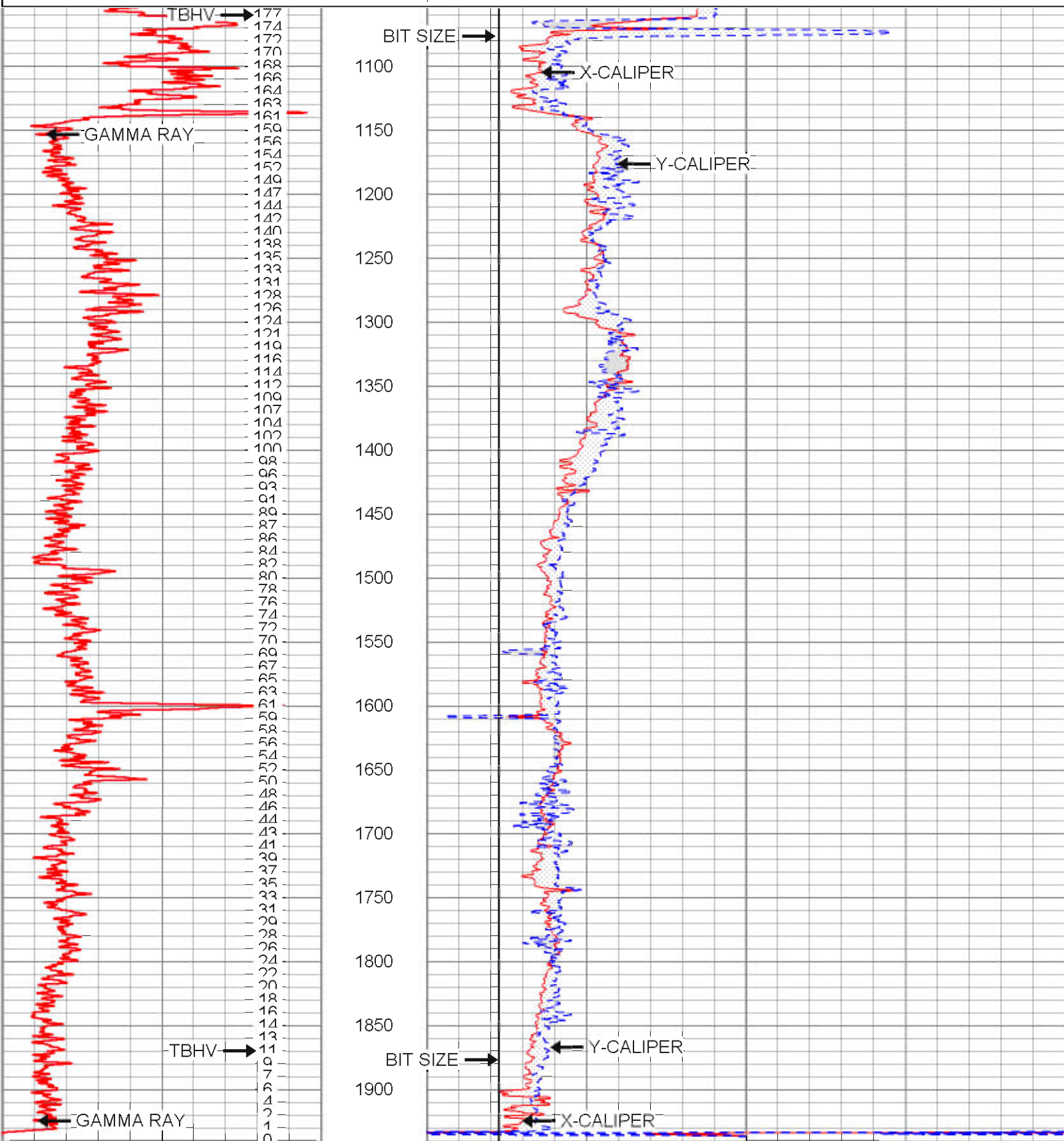


**YOUNGQUIST
BROTHERS, Inc**

MAIN PASS

Database File: hiamw1.db
 Dataset Pathname: run5/pass3
 Presentation Format: grxyc
 Dataset Creation: Sun Apr 11 18:01:57 2010 by Log Open-Cased 090629
 Charted by: Depth in Feet scaled 1:1200

0	GAMMA RAY (GAPI)	100	10	X-CALIPER (in)	30
	TBHV (bbl)		10	Y-CALIPER (in)	30
			10	BIT SIZE (in)	30



0	GAMMA RAY (GAPI)	100
	TBHV (bbl)	

10	X-CALIPER (in)	30
10	Y-CALIPER (in)	30
10	BIT SIZE (in)	30



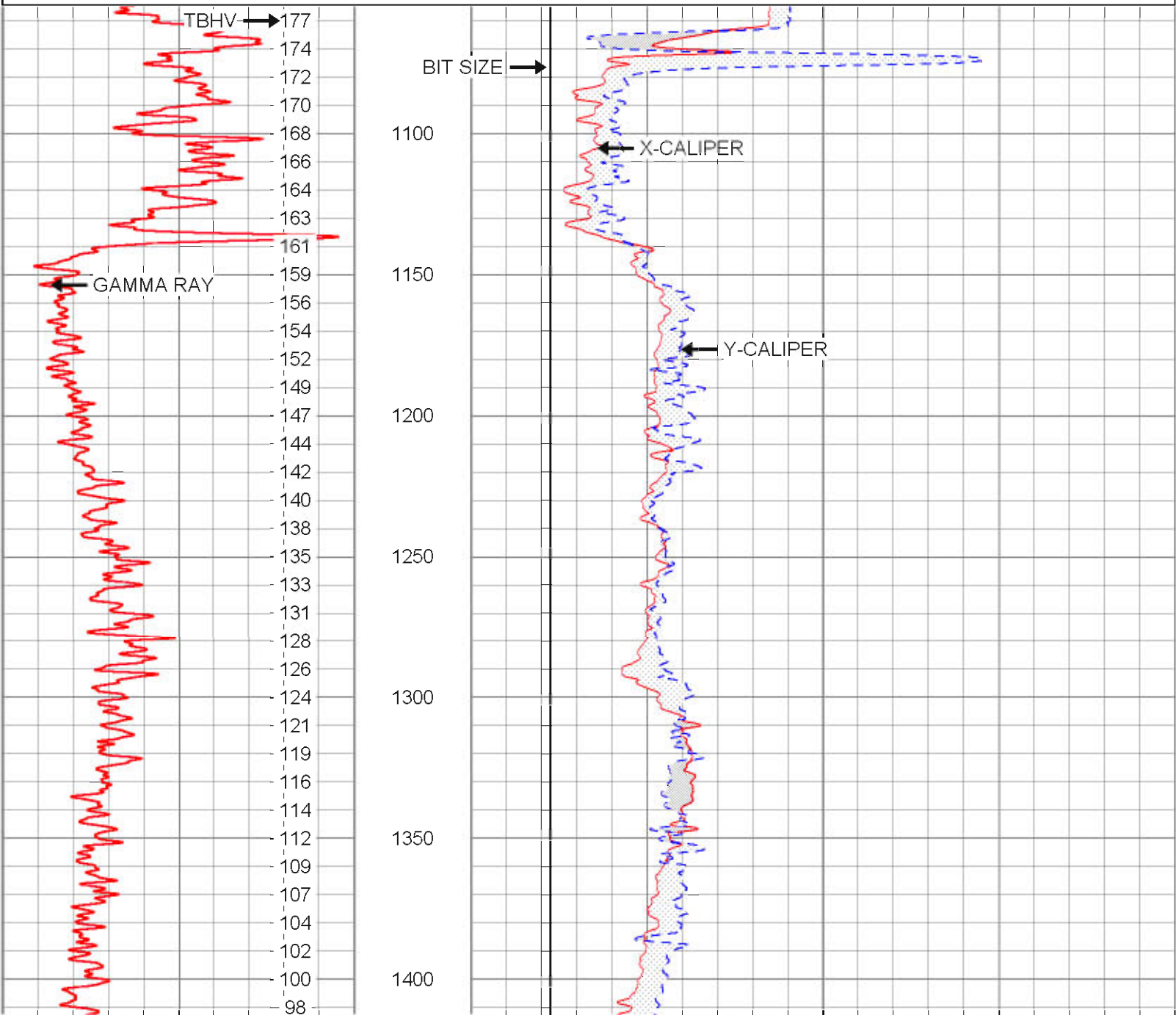
YOUNGQUIST
BROTHERS, Inc
 GEOPHYSICAL LOGGING DIVISION

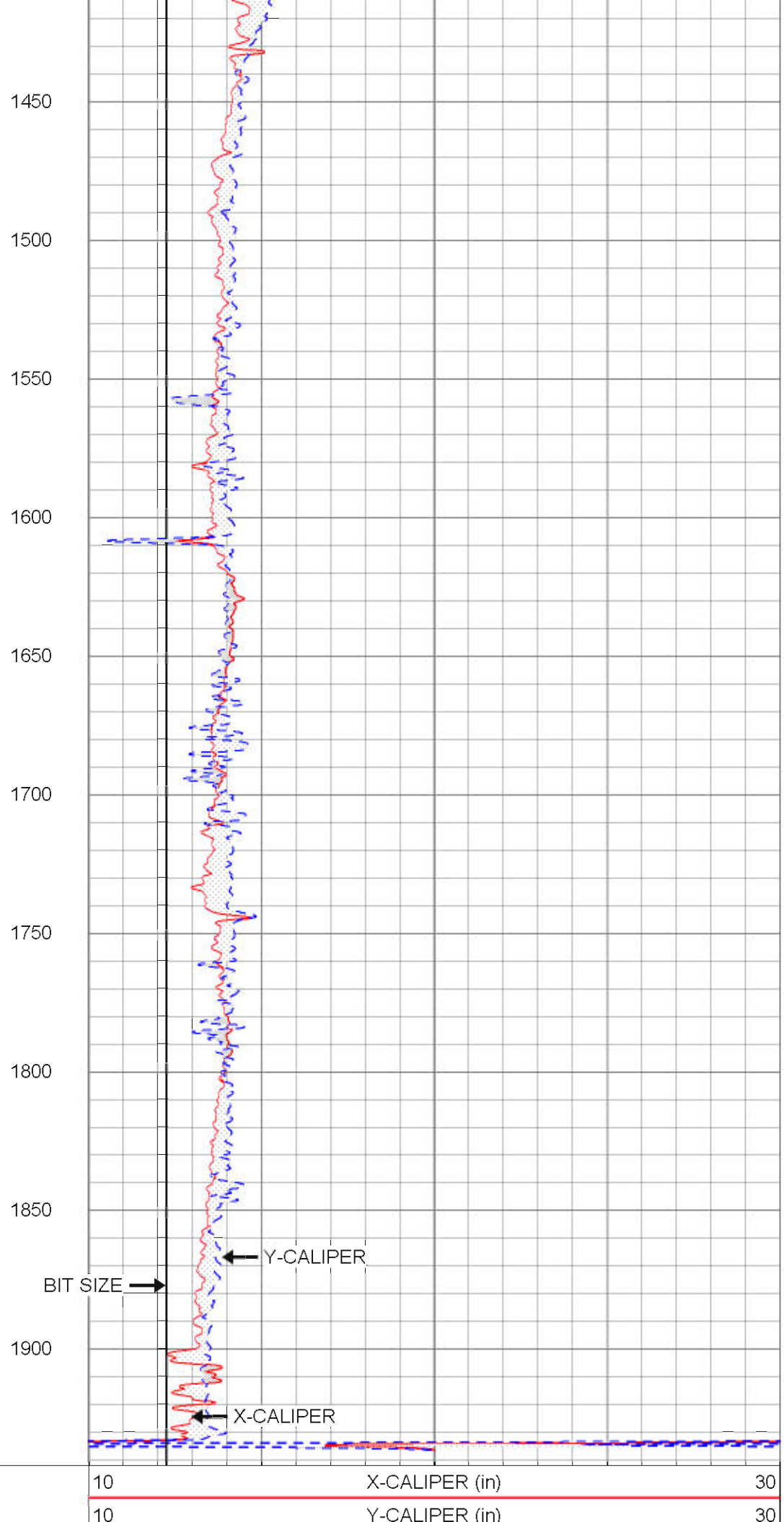
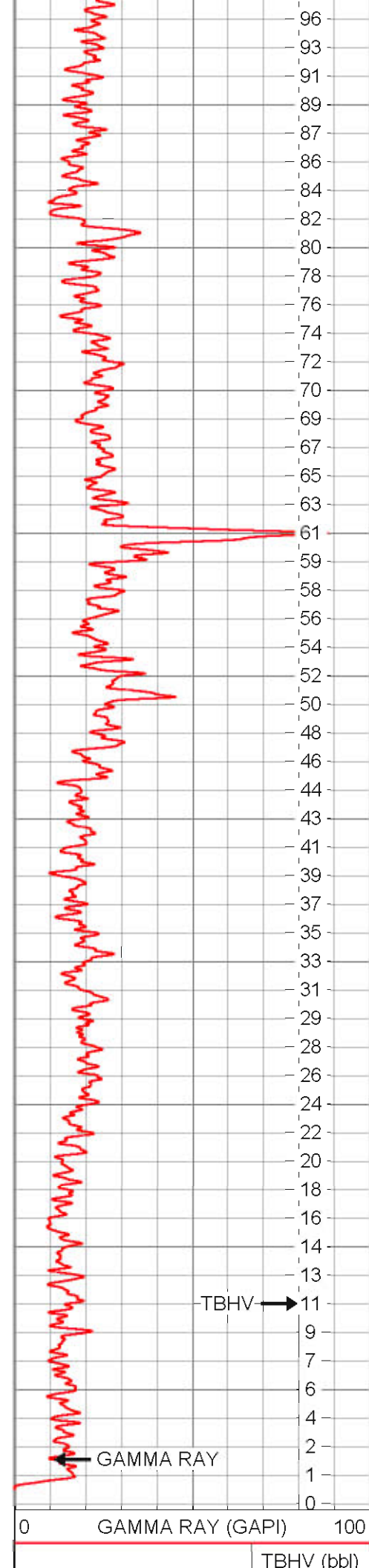
MAIN PASS

Database File:	hiamw1.db
Dataset Pathname:	run5/pass3
Presentation Format:	grxyc
Dataset Creation:	Sun Apr 11 18:01:57 2010 by Log Open-Cased 090629
Charted by:	Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	100
	TBHV (bbl)	

10	X-CALIPER (in)	30
10	Y-CALIPER (in)	30
10	BIT SIZE (in)	30







**YOUNGQUIST
BROTHERS, Inc**

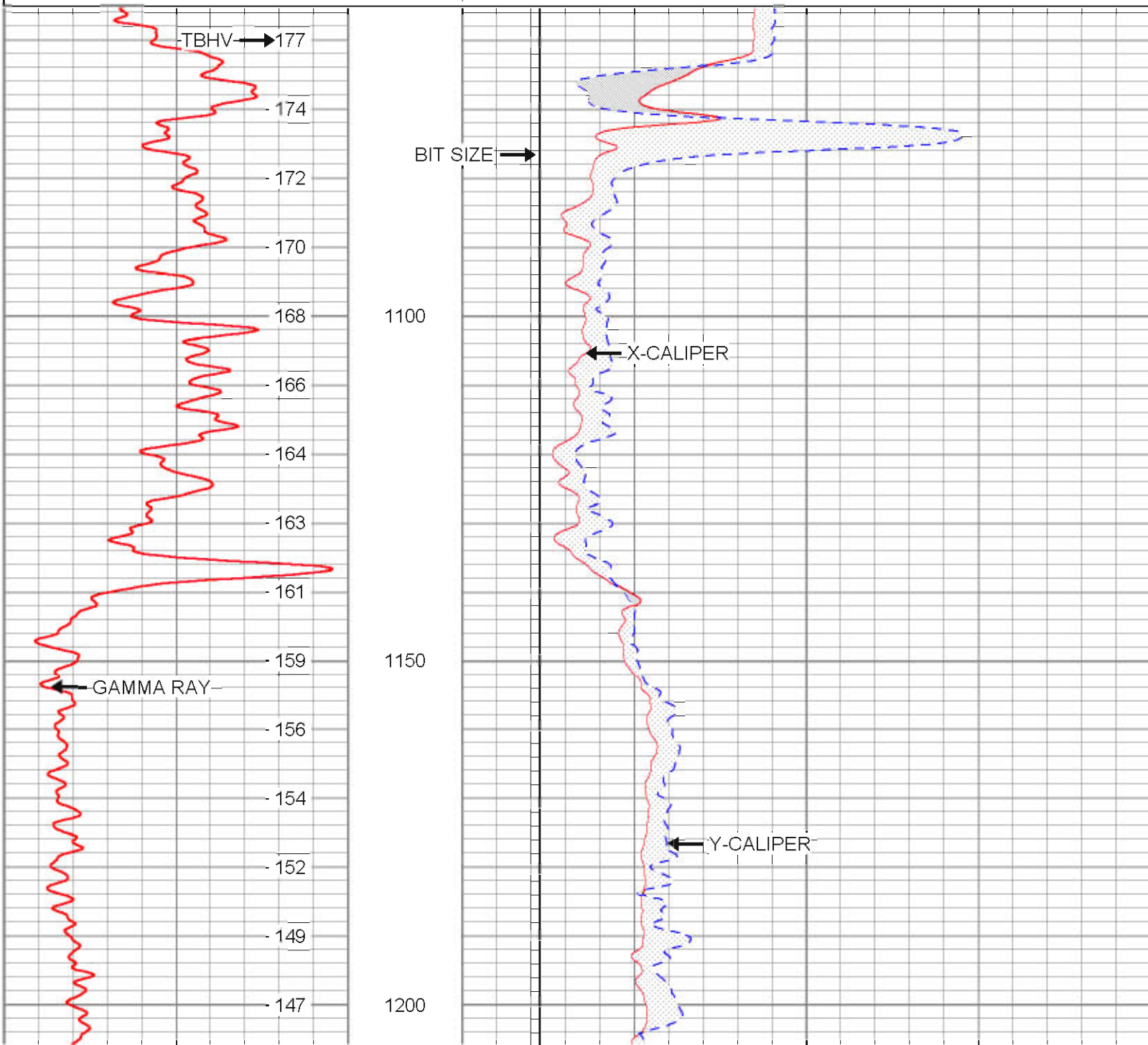
GEOPHYSICAL LOGGING DIVISION

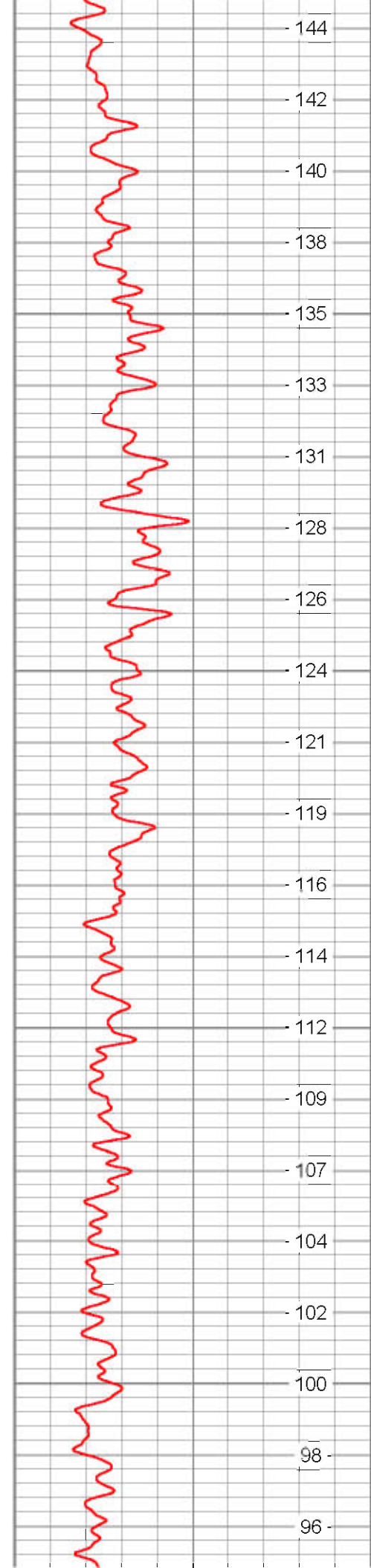
MAIN PASS

Database File: hiamw1.db
Dataset Pathname: run5/pass3
Presentation Format: grxyc
Dataset Creation: Sun Apr 11 18:01:57 2010 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 100
TBHV (bbl)

10 X-CALIPER (in) 30
10 Y-CALIPER (in) 30
10 BIT SIZE (in) 30



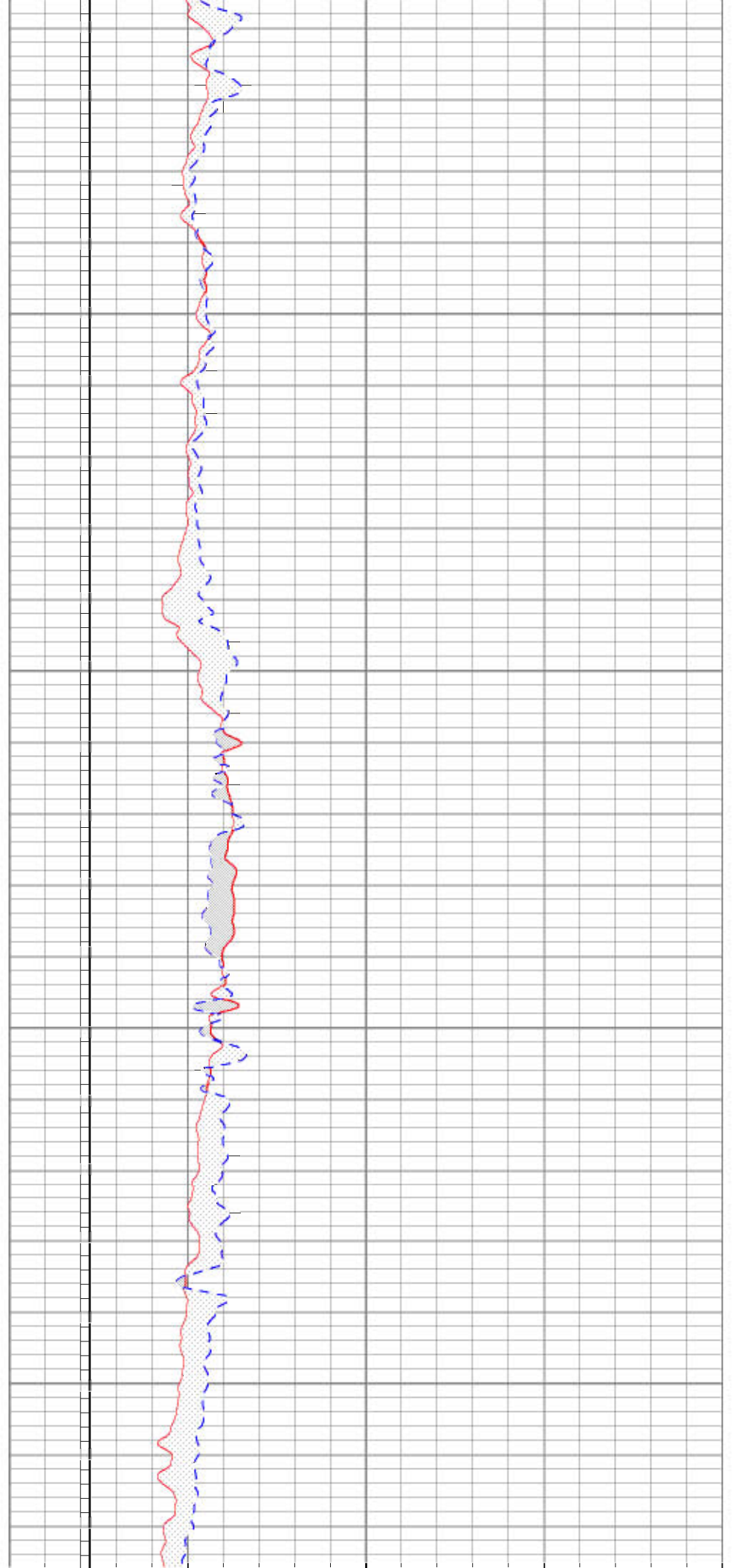


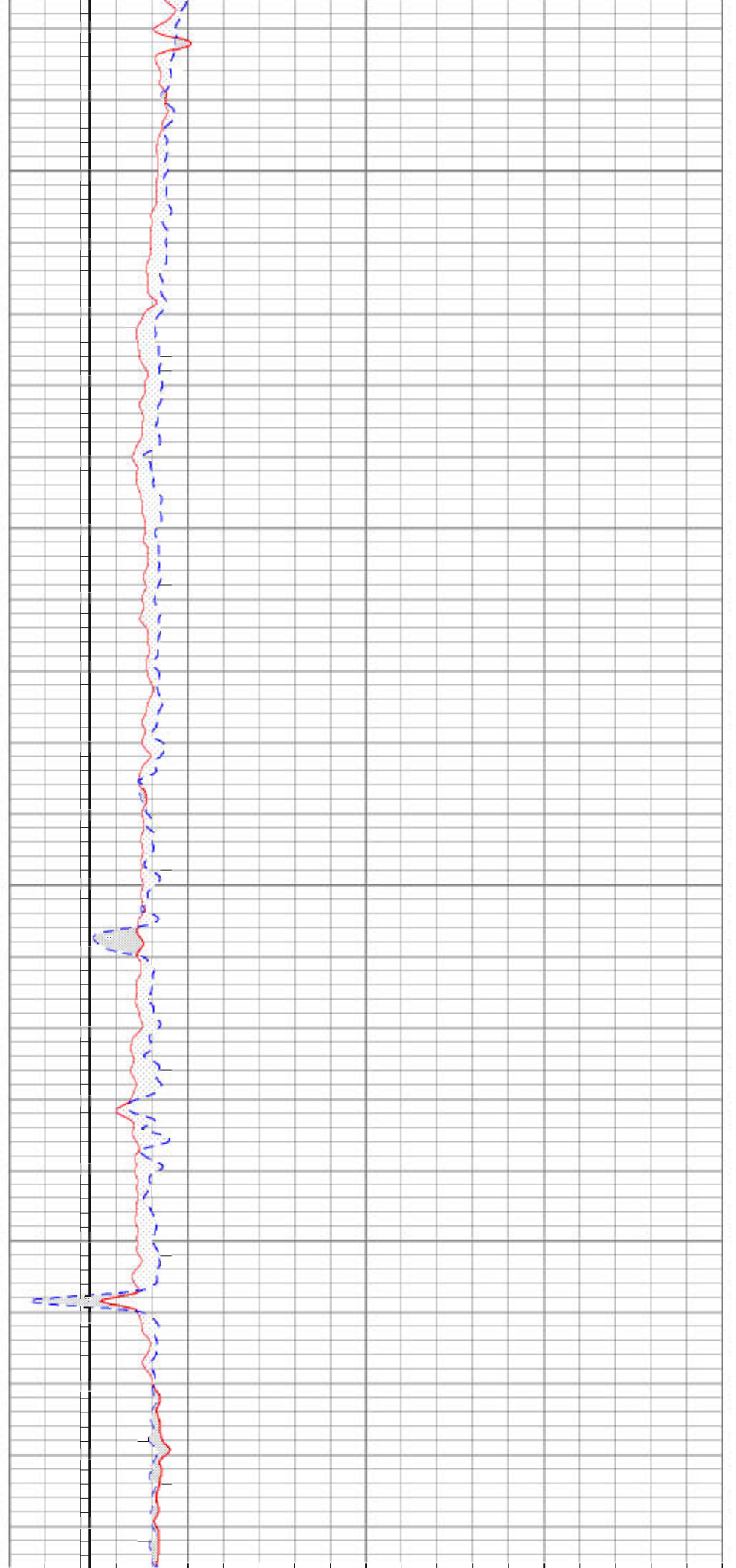
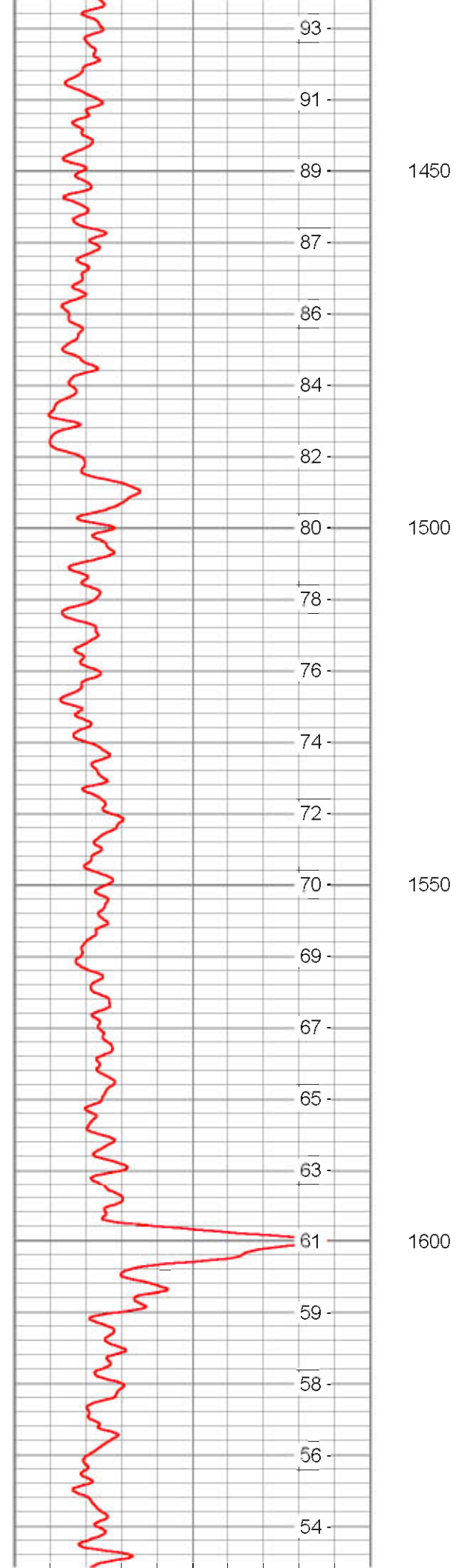
1250

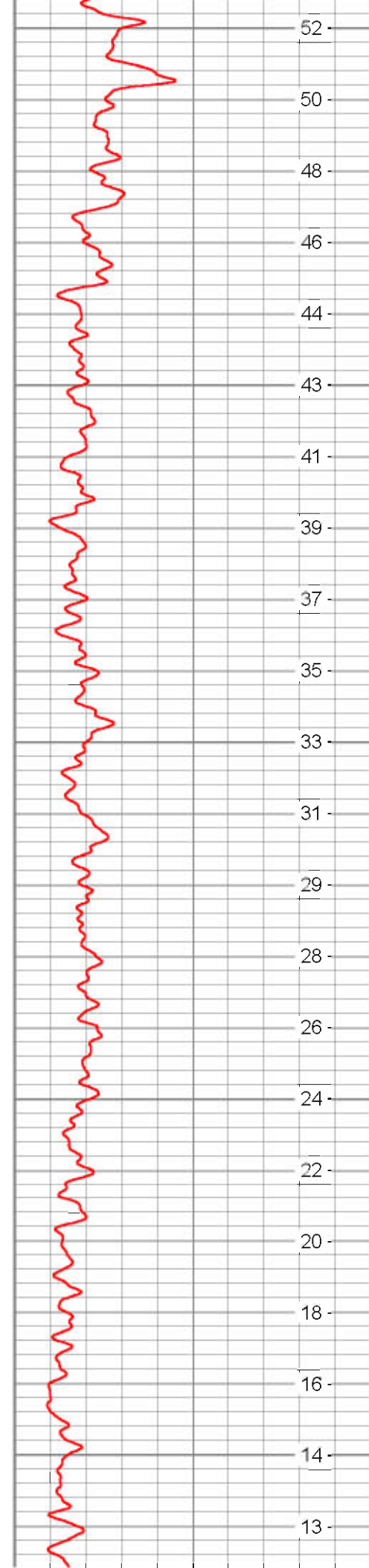
1300

1350

1400







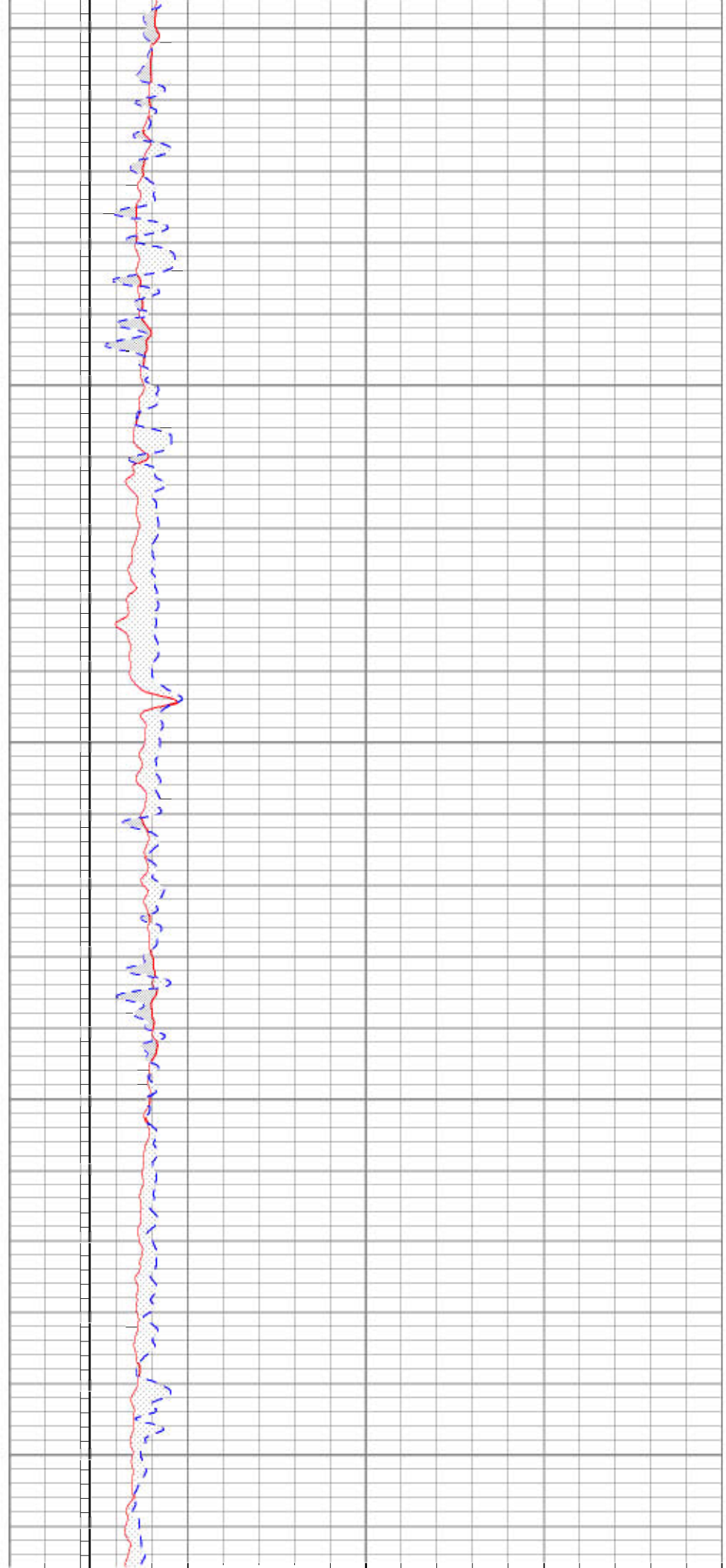
1650

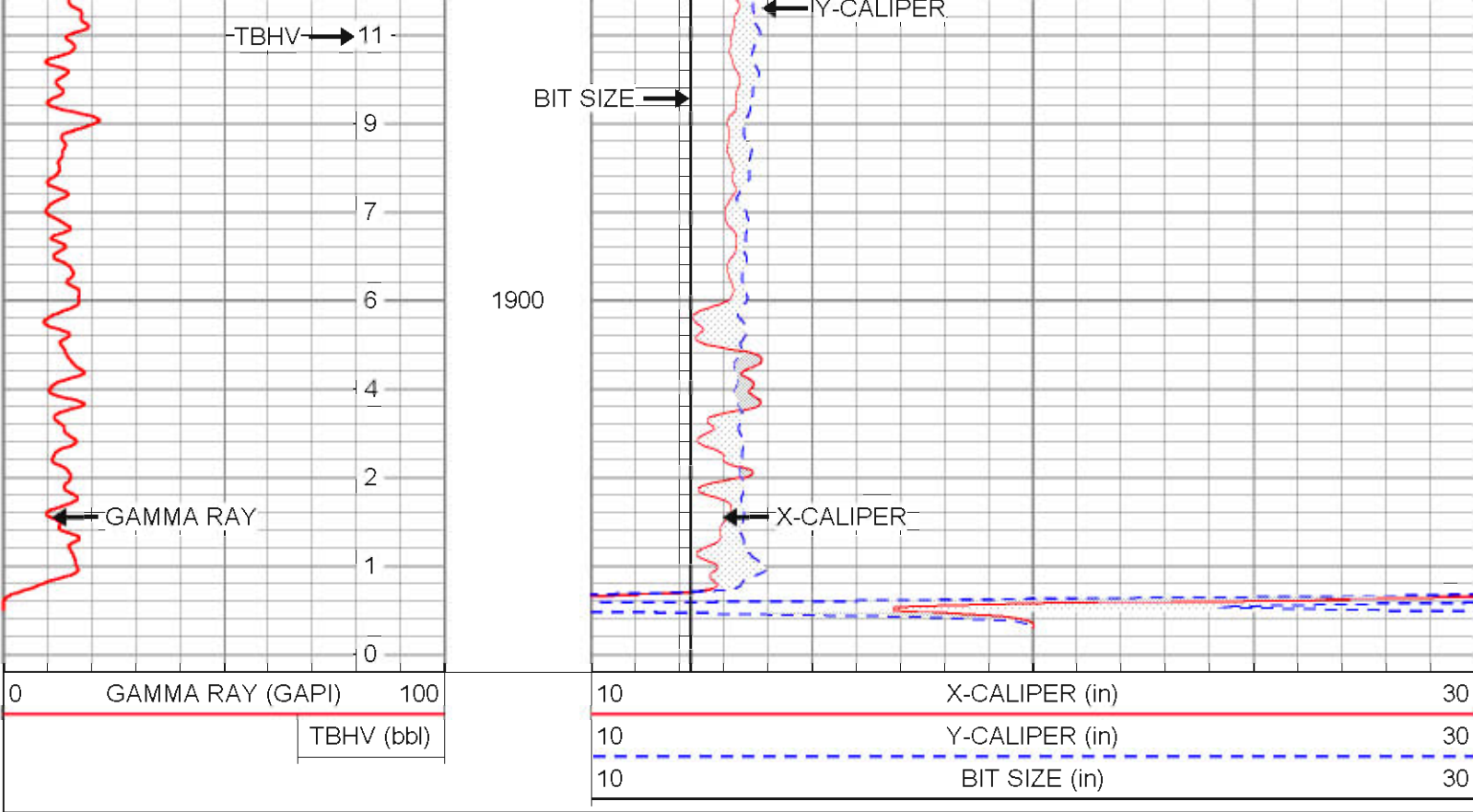
1700

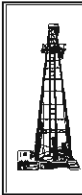
1750

1800

1850



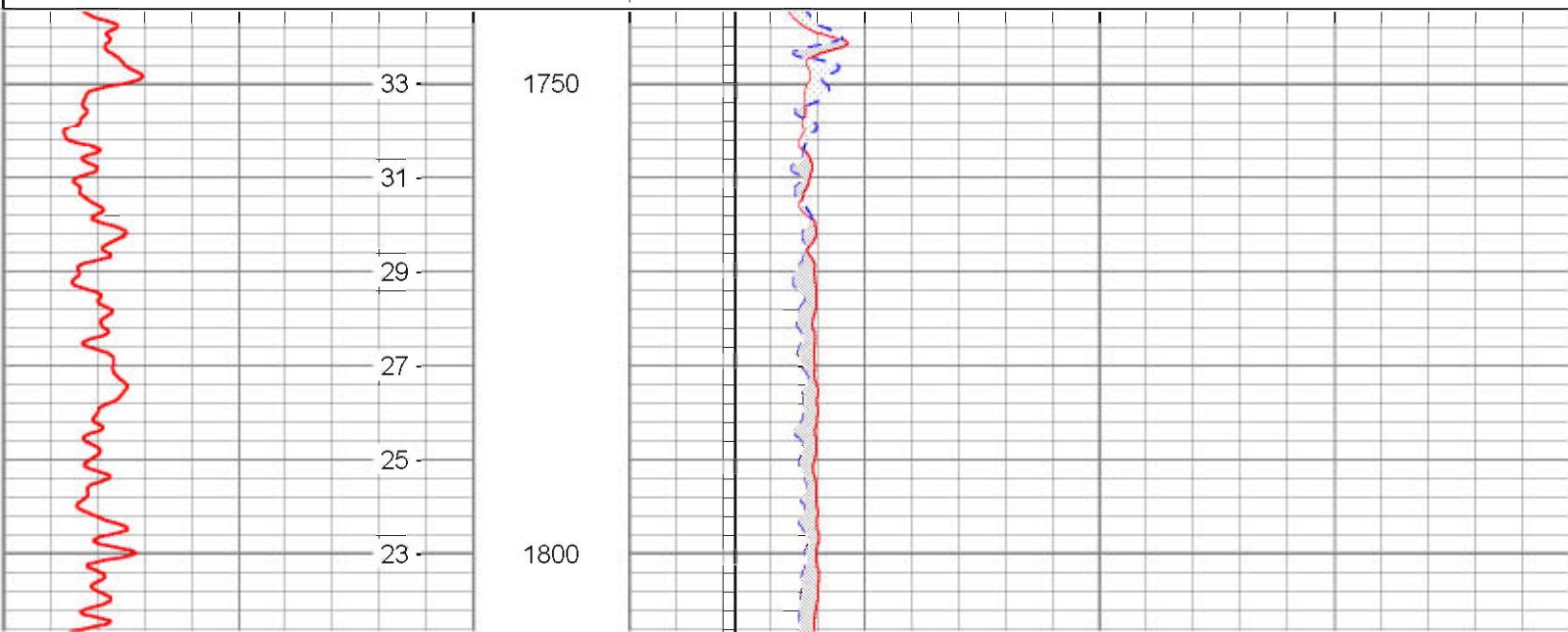
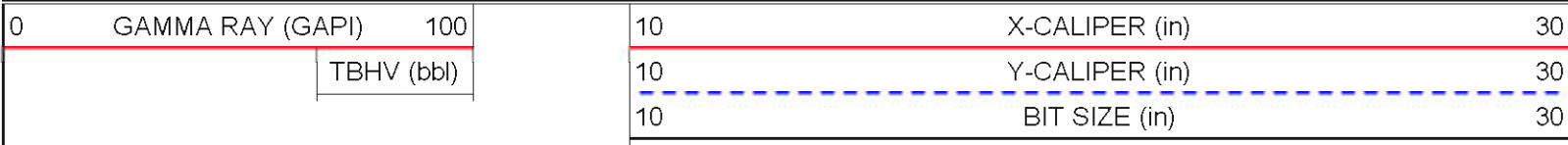


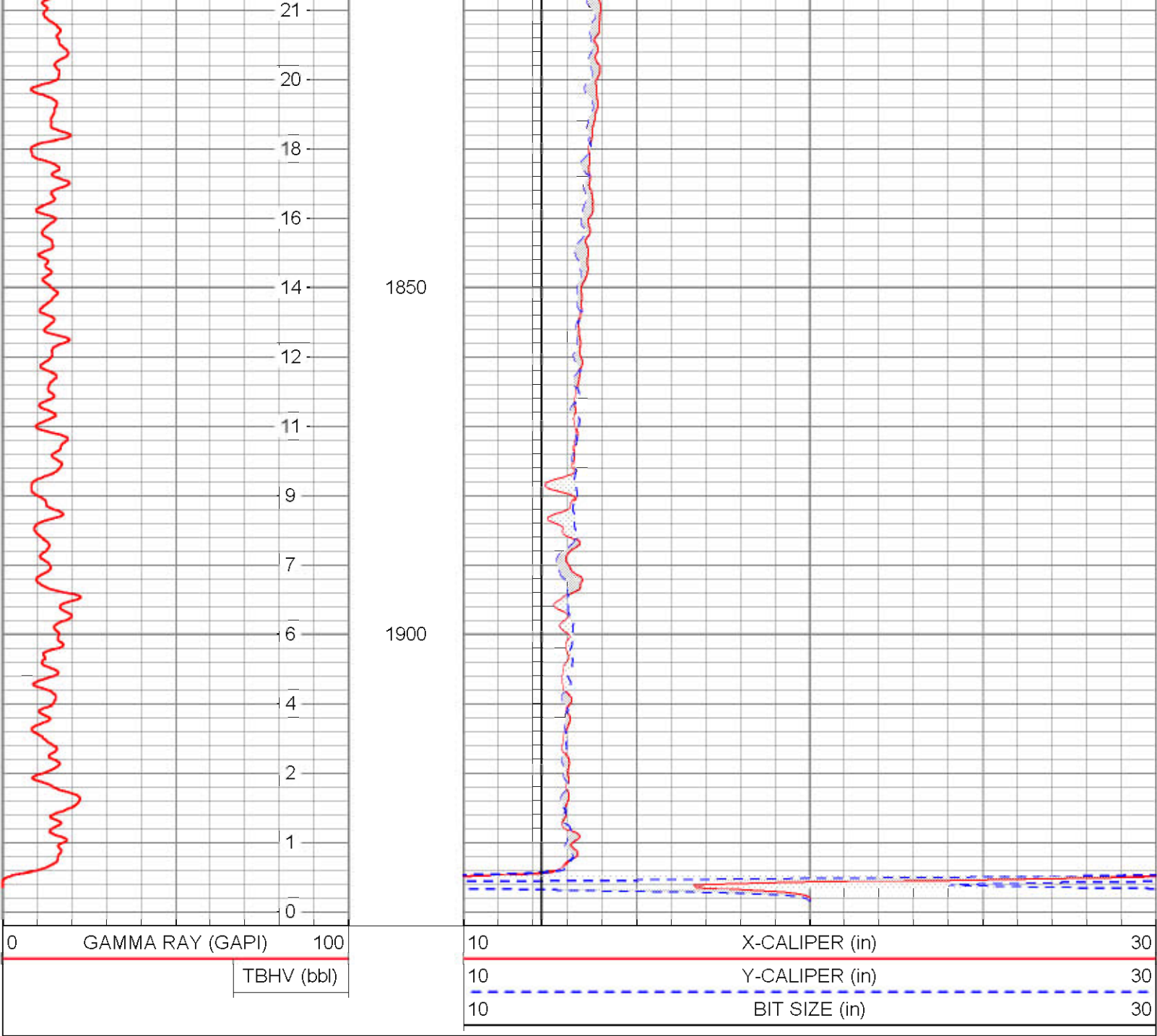


**YOUNGQUIST
BROTHERS, Inc**
GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

Database File: hiamw1.db
Dataset Pathname: run5/pass2
Presentation Format: grxyc
Dataset Creation: Sun Apr 11 17:52:51 2010 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:240





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	9.10		GR-GROH (14)	2.75	3.50	40.00

Serial Number/Model:			01BSM-XYCSM			
Performed:			Sun Apr 11 17:23:01 2010			
Ring			X Caliper		Y Caliper	
-----			-----		-----	
1:	5.81	in	512.065	cps	955	cps
2:	13.4	in	592.065	cps	1008.04	cps
3:	47.5	in	1078.27	cps	1339.14	cps
4:		in		cps		cps
5:		in		cps		cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number:	14	
Tool Model:	GROH	
Performed:	Wed May 21 13:24:48 2008	
Calibrator Value:	120.0	GAPI
Background Reading:	45.4	cps
Calibrator Reading:	204.5	cps
Sensitivity:	0.8754	GAPI/cps

[illegible]

YOUNGQUIST BROTHERS, Inc GEOPHYSICAL LOGGING DIVISION	MAIN PASS
--	---------------------------------------

Database File: hlamw1.db Dataset Pathname: nup\lows? 1	
---	--

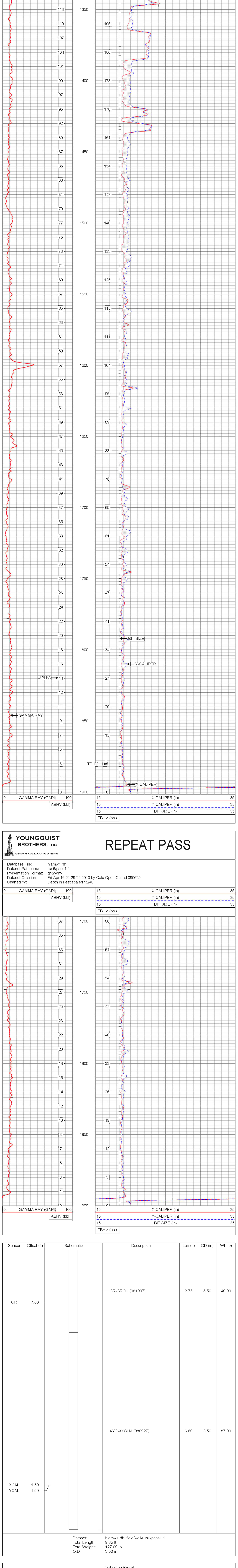
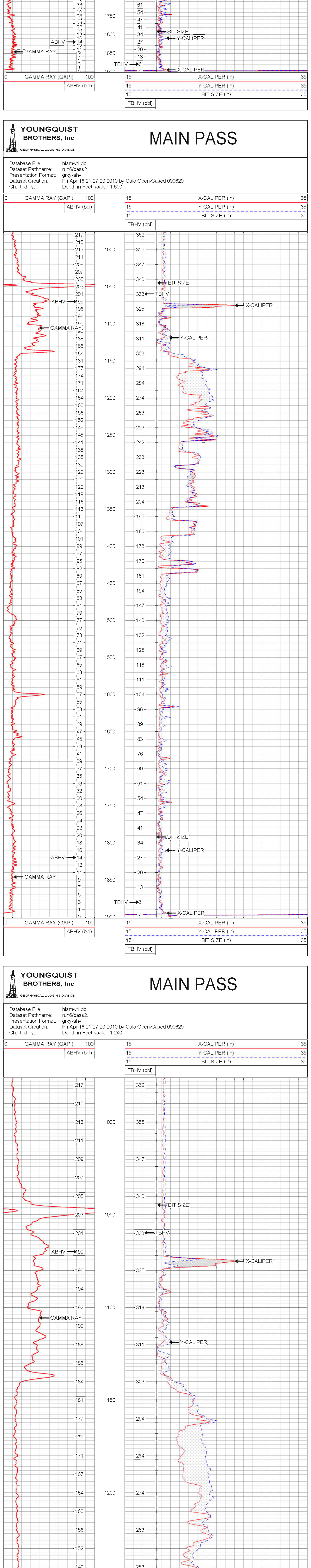
Calc Open-Cased 090620

15
15
15

TBHV (bbl)

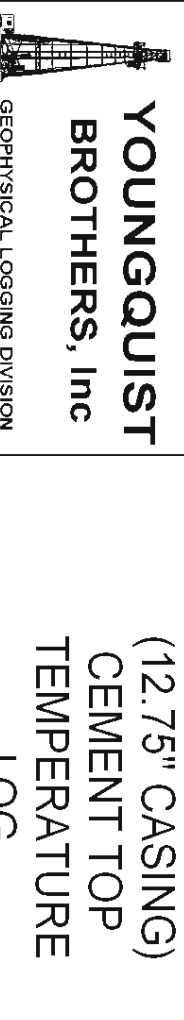
362
355
347
340
333

← BIT S
← TBHV



Database File: hiamw1.db Dataset Pathname: run6/pass2.1 Dataset Creation: Fri Apr 16 21:27:20 2010 by Calc: Open-Cased 090629		
XY Caliper Calibration Report		
Serial Number/Model: 080927-XYCLM Performed: Fri Apr 16 20:32:42 2010		
	Ring -----	X Caliper -----
1:	10 in	381.115 cps
2:	20 in	500.216 cps
3:	30 in	626.304 cps
4:	40 in	768.478 cps
5:	40 in	cps
6:	in	cps
Y Caliper -----		
		361.052 cps
		485.514 cps
		626.413 cps
		765.217 cps
		cps
		cps
Gamma Ray Calibration Report		
Serial Number: 081007 Tool Model: GROCH Performed: Thu Oct 23 15:05:06 2008		

Calibrator Value:	100.0	GAPI
Background Reading:	272.3	cps
Calibrator Reading:	962.3	cps
Sensitivity:	0.1389	GAPI/cps

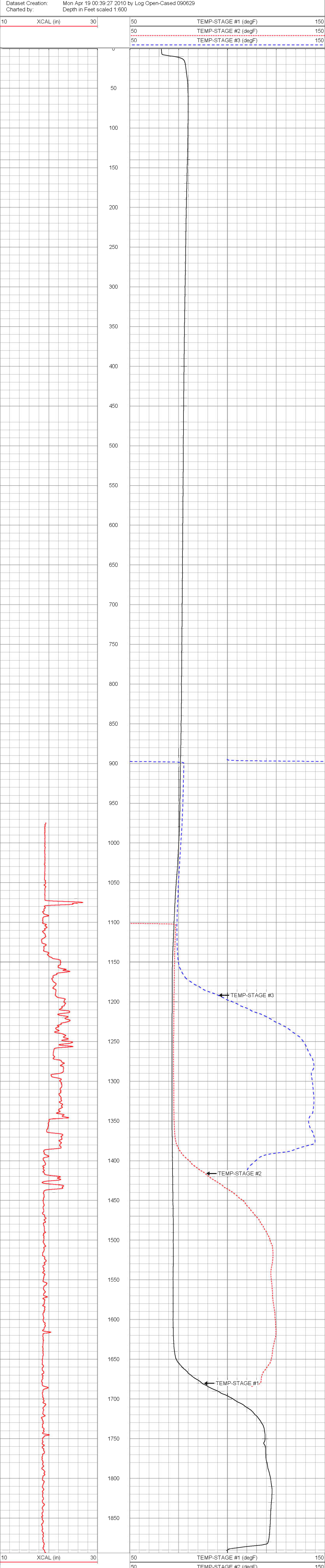
[illegible][illegible]

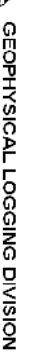
STAGE #1 LOGGED @ 0042 ON 19-APR-2010
STAGE #2 LOGGED @ 1115 ON 19-APR-2010
STAGE #3 LOGGED @ 2300 ON 19-APR-2010



PAGE #1

Database File: hiamw1.db
Dataset Pathname: run7/temp
Presentation Format: ctl_mg





**YOUNGQUIST
BROTHERS, Inc**

(20" CASING)
CEMENT TOP
TEMPERATURE
LOG

Company CITY OF HIALEAH

Company 0111

Well MW-7

Field HIALEAH R.O.W.T.P.

County **DADE** State **FL**

--	--

--	--

Perillallic Acid

Elevation

Drilling Measured From

U/-APR-10		
ENIB		

1075'		
1060'		

Interval	1068'		
----------	-------	--	--

	28.5"	
--	-------	--

	IMOD	
	NA	

Temp.	NA		
Location	NA		

1730	
------	--

er			
102			

1	WILSON	
2	FULLER	

	JCDT		
Borehole Record			Borehole Record

Bit	From	To	Run No.	Bit	F
0.5"	157'	SLIPFACE			

8.5"	1075'	CASING		
------	-------	--------	--	--

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

30"	.375" W.T.	SURFACE
30"	.375" W.T.	SURFACE
30"	.375" W.T.	SURFACE

[illegible]

--	--	--	--	--	--	--	--	--

<<< 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

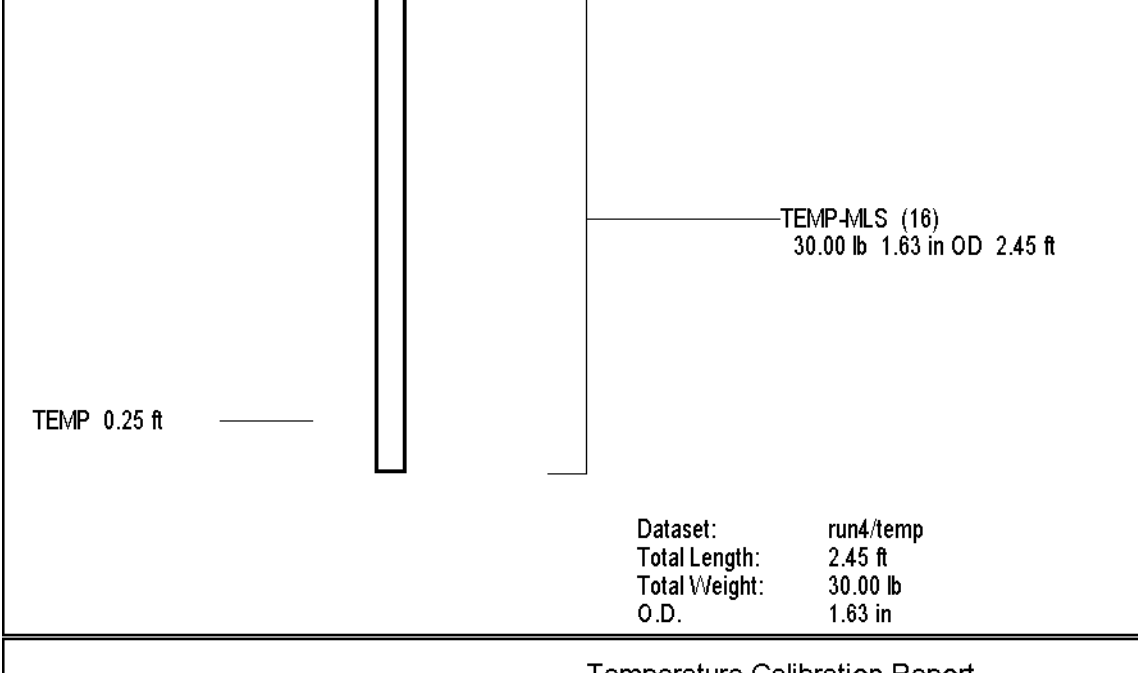
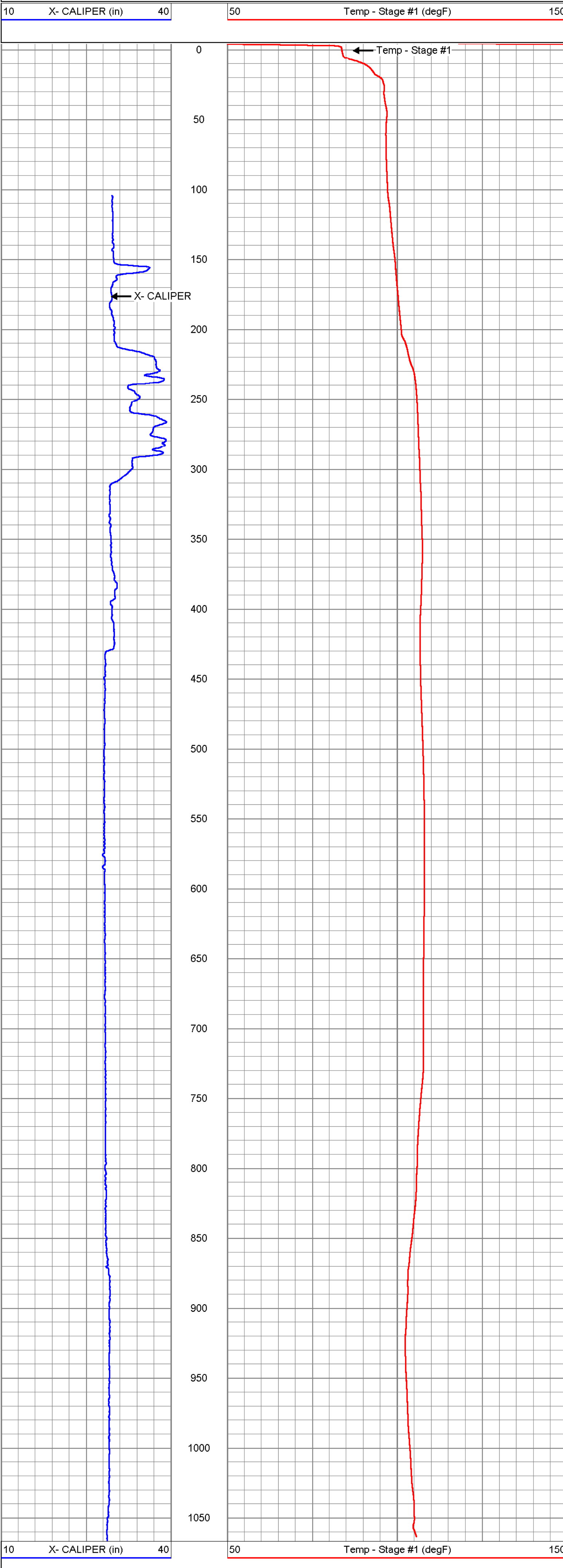
2

STAGE #1 LOGGED @ 1740 ON 7/4/2010



TEMPERATURE

Database File: hiamw1.db
Dataset Pathname: run4/temp
Presentation Format: CTL_MG
Dataset Creation: Wed Apr 07 18:44:39 2010 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600



Tool Model: MLS
Performed: Sun Jul 20 07:32:40 2008

Point #	Reading	Reference
1	320 cps	32 degF
2	300 cps	30 degF

Company		CITY OF HIALEAH	
Well	MW-1		
Field	HIALEAH R.O.W.T.P.		
County	DADE	State	FL
Location		Permanent Datum Log Measured From Drilling Measured From	Elevation
Other Services SEE COMMENTS			
Date	29-MAR-10		
Run Number	TWO		
Depth Driller	157'		
Depth Logger	151'		
Bottom Logged Interval	151'		
Top Log Interval	SURFACE		
Open Hole Size	40.5"		
Type Fluid	MUD		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	NA		
Time Well Ready	0900		
Time Logger on Bottom	0915		
Equipment Number	102		
Location	FT MYERS		
Recorded By	MOREY		
Witnessed By	WEBSTER, C		
Borehole Record		Borehole Record	
Run Number	Bit	From	To
ONE	40.5"	157'	SURFACE
Size		Wgt/Ft	Top
Casing Record		Bottom	
Casing String			
Casing String			
Casing String			
Casing String			

<<< 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.

Comments

STAGE 1 LOGGED @ 0915 ON 03/29/10

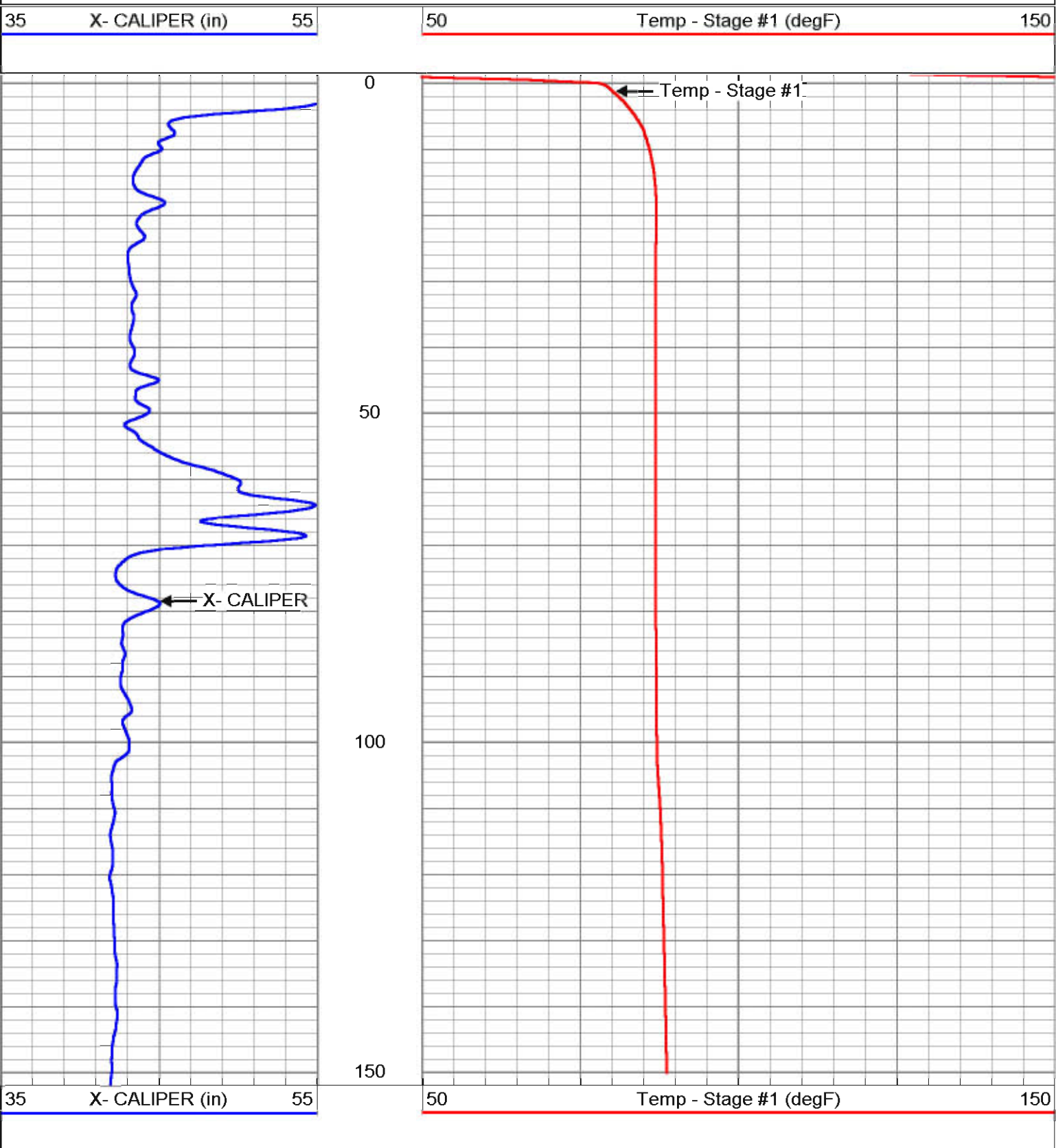
YOUNGQUIST

BROTHERS, Inc

GEOPHYSICAL LOGGING DIVISION

STAGE 1

Database File: hiamw1.db
Dataset Pathname: TEMP1
Presentation Format: CTL_MG
Dataset Creation: Mon Mar 29 09:17:56 2010 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



Temperature Calibration Report				
Serial Number:		16		
Tool Model:		MLS		
Performed:		Sun Jul 20 07:32:40 2008		
Point #	Reading		Reference	
1	320	cps	32	degF
2	700	cps	70	degF
3	2000	cps	200	degF