PIONEER

Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY/CCL

Company	**CARRIZO NIOBRARA LLC.**
Well	**BRINGELSON RANCH 17-20-9-58**
Field	**WILDCAT**
County	**WELD**
State	**CO**

Location: API # : 05-123-41153

SHL: 2081' FNL & 573' FWL SWNW

SEC 20 TWP 9N RGE 58W

Other Services: NONE

Permanent Datum	GL	Elevation 4872'
Log Measured From	KB	
Drilling Measured From	KB	

Elevation
K.B. 4889'
D.F. 4888'
G.L. 4872'

Company CARRIZO NIOBRARA LLC.
Well BRINGELSON RANCH 17-20-9-58
Field WILDCAT
County WELD State CO

Date of Service	APRIL 6, 2015
Run Number	1
Depth Driller or PBTD	10530'
Depth Logger	5956'
Bottom Log Interval	5956'
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WBM
Fluid Level	370'
Fluid Density	9.7
Max. Recorded Temperature	N/A
Max. Wellhead Pressure	0 PSI
Wellhead Connection	NA
Estimated Cement Top	1790'
Unit Number	P-36
Wireline Size	7/16"
Location	FT. MORGAN
Recorded By	SHAUN STUMP
Witnessed By	JEFF MEYER

	Size	Wt/Ft	Top	Bottom
Tubing Record	N/A	N/A	N/A	N/A
Surface Casing	9.625"	36#	SURFACE	1440'
Production Casing	7"	23#	SURFACE	6132'
Liner Record	N/A	N/A	N/A	N/A

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

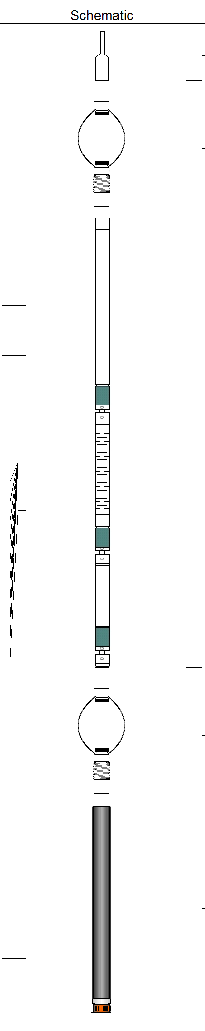
N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
LOGGED UNDER 0 PSI
DEPTH CORRELATED TO MAGNETIC MARKS
XTREME RIG #19
THANK YOU FOR USING PIONEER ENERGY SERVICES
SO# 2-013975

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: SHAUN STUMP	PROBE RADII BOND	141168
Operator: DALE SCHAEFER	PROBE CCL/GAMMA	51013
Operator: JAMES PRENTICE		
Operator: -		

Sensor	Offset (ft)
IntTemp	14.66
TEMP	13.62
WVF3FT	11.41
WVFCAL	11.41
WVFS1	11.41
WVFS2	11.41
WVFS3	11.41
WVFS4	11.41
WVFS5	11.41
WVFS6	11.41
WVFS7	11.41
WVFS8	11.41
WVF5FT	10.41
CCL	3.92
GR	1.13

Schematic



Description	Len (ft)	OD (in)	Wt (lb)
CHD-Titan (1) Titan Type II Cable Head	1.03	1.44	5.00
CENT #2 -A (1)	2.83	2.75	20.00
RBT-RBT-C3 (11206) Probe Radii Bond Tool with Digital Telemetry	9.33	2.75	90.00
CENT-A (1)	2.83	2.75	20.00
GR-probe 2.75 (51013) proble Digital CCL Gamma	4.33	2.75	100.00

Dataset: 13975.db: field/well/run1/pass2
Total Length: 20.35 ft
Total Weight: 235.00 lb
O.D. 2.75 in

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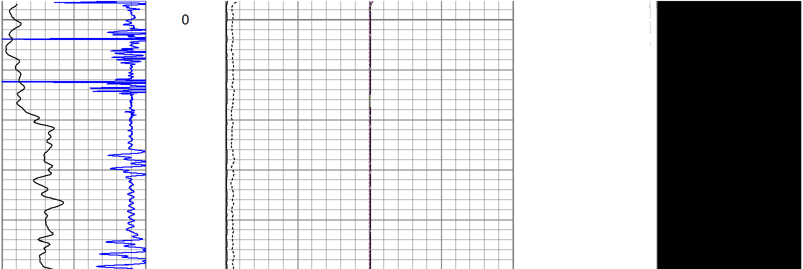
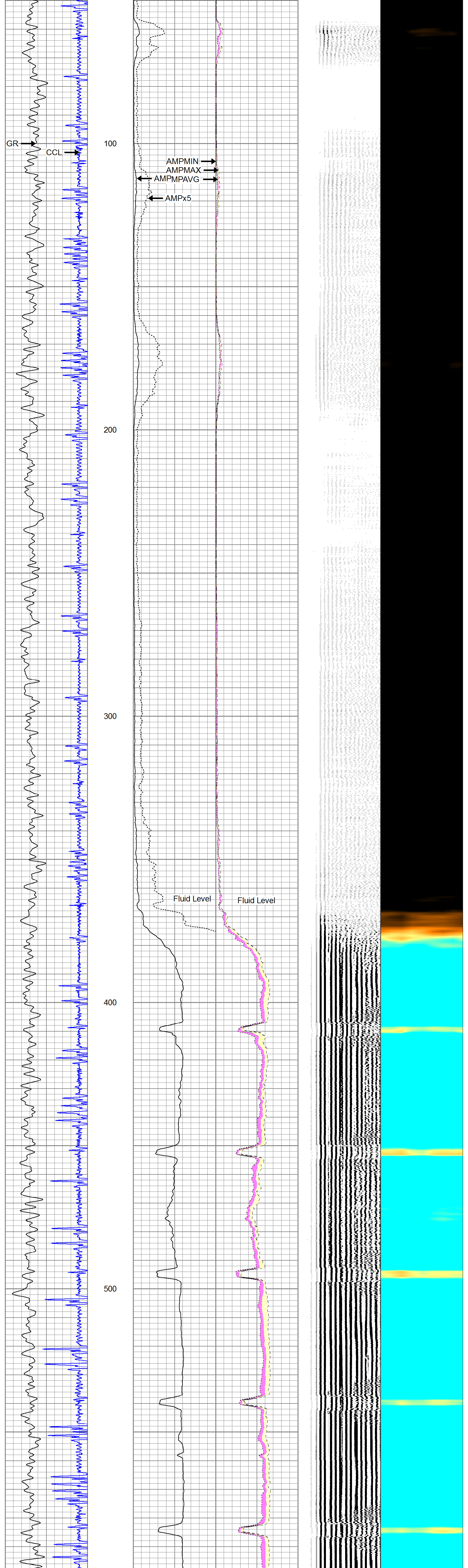
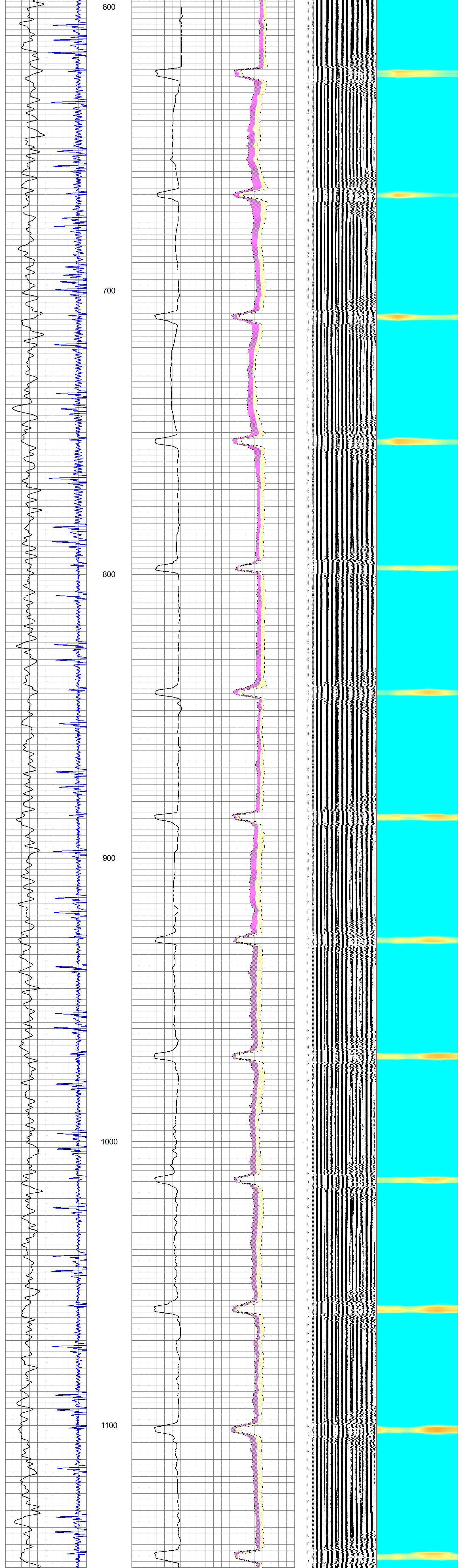
MAIN PASS

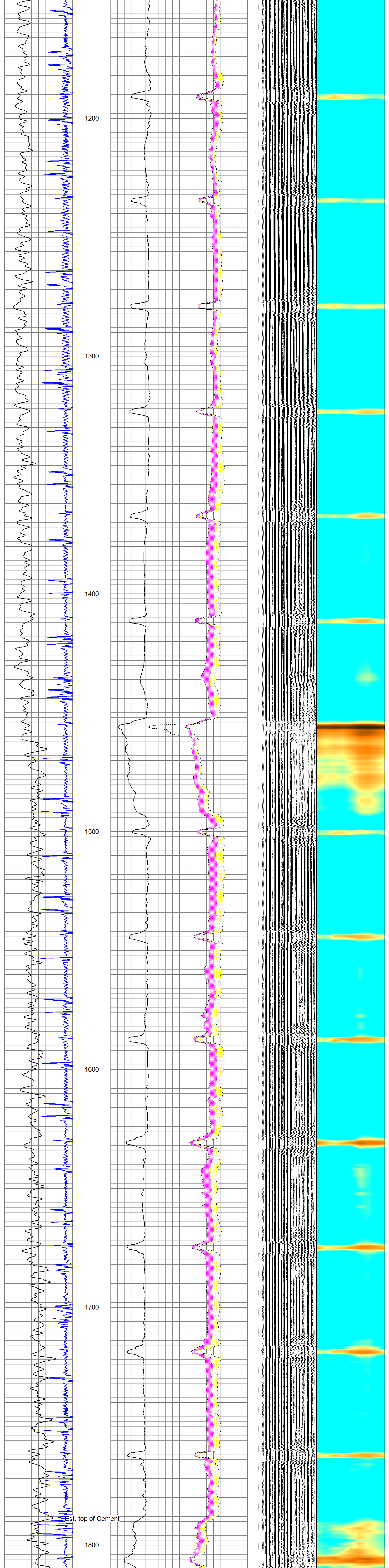
Database File: 13975.db
Dataset Pathname: FINAL
Presentation Format: scbl02
Dataset Creation: Mon Apr 06 09:57:30 2015 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

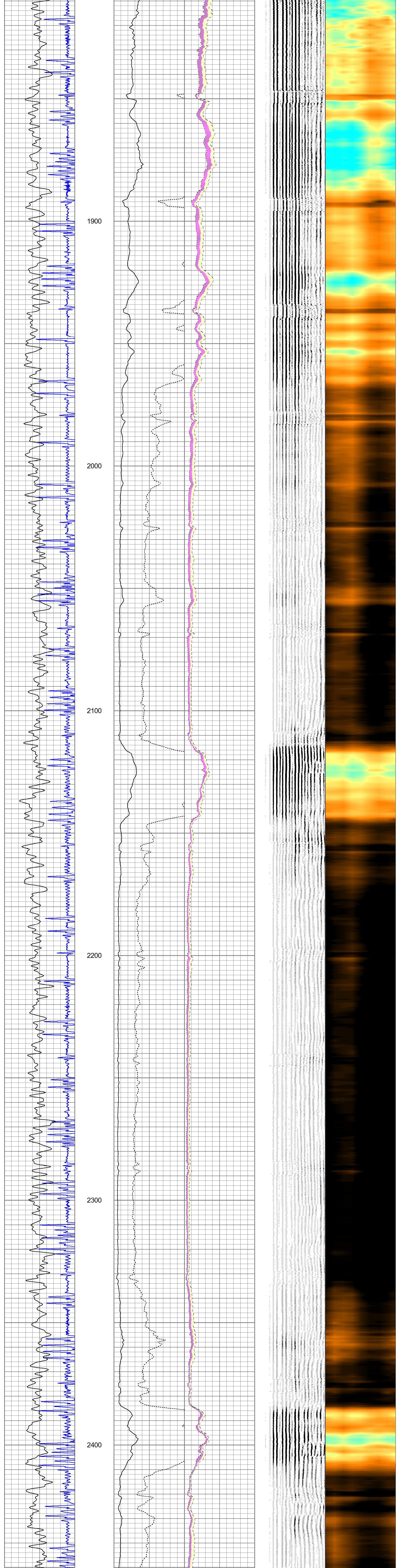
-9 CCL 1
0 GR (GAPI) 200
0 AMP (mV) 100
0 AMPx5 (mV) 20
0 AMPAVG 150
0 AMPMAX 150
0 AMPMIN 150
200 VDL 1200
1 SECTOR MAP 8
10 60

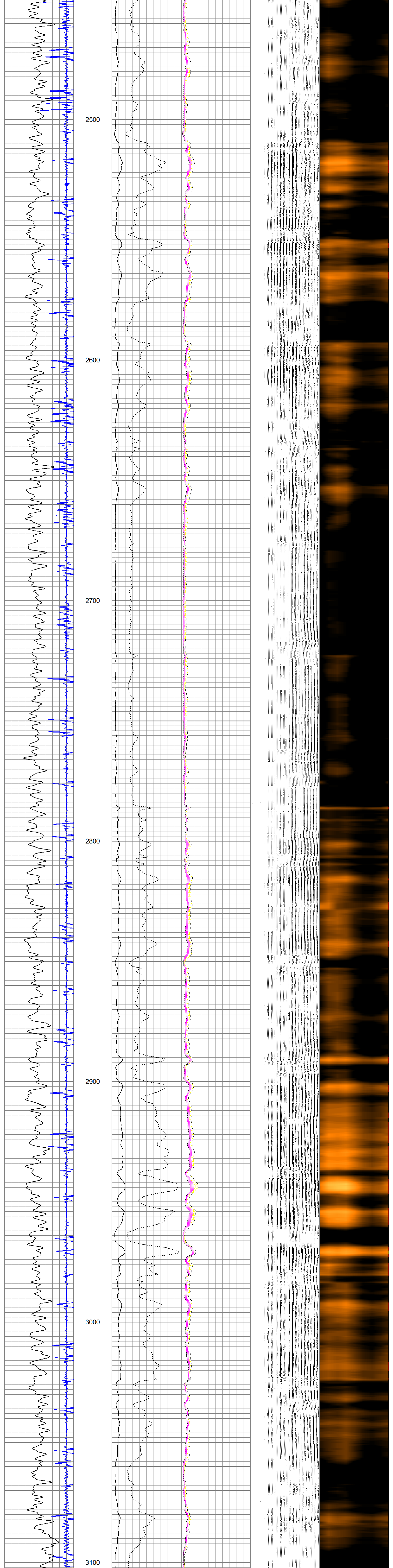


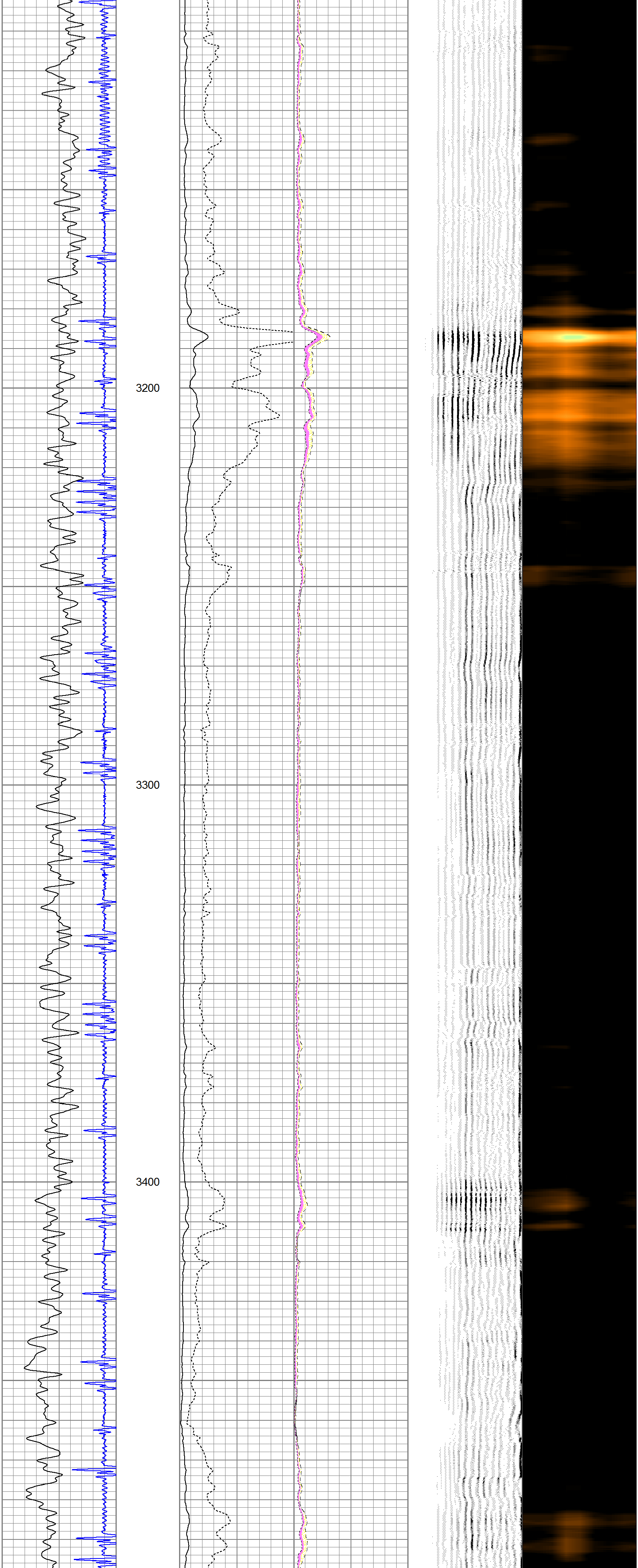


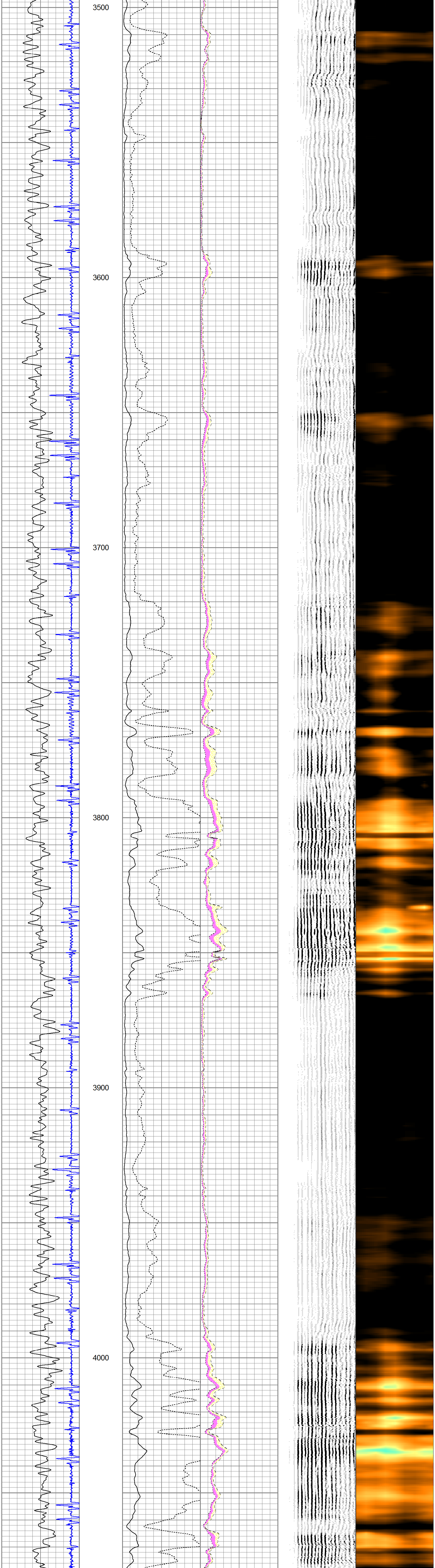


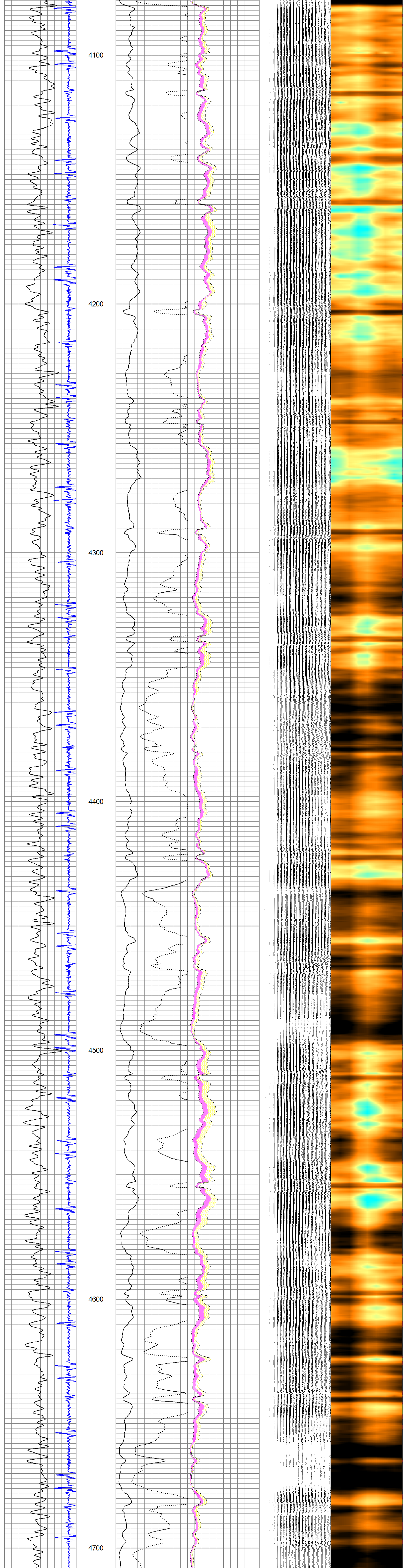


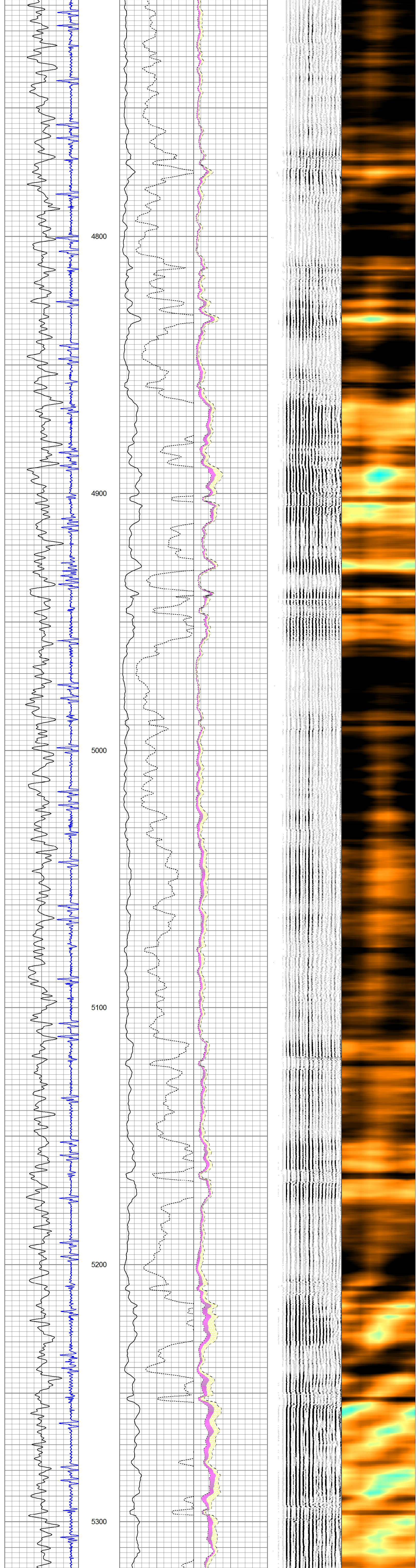


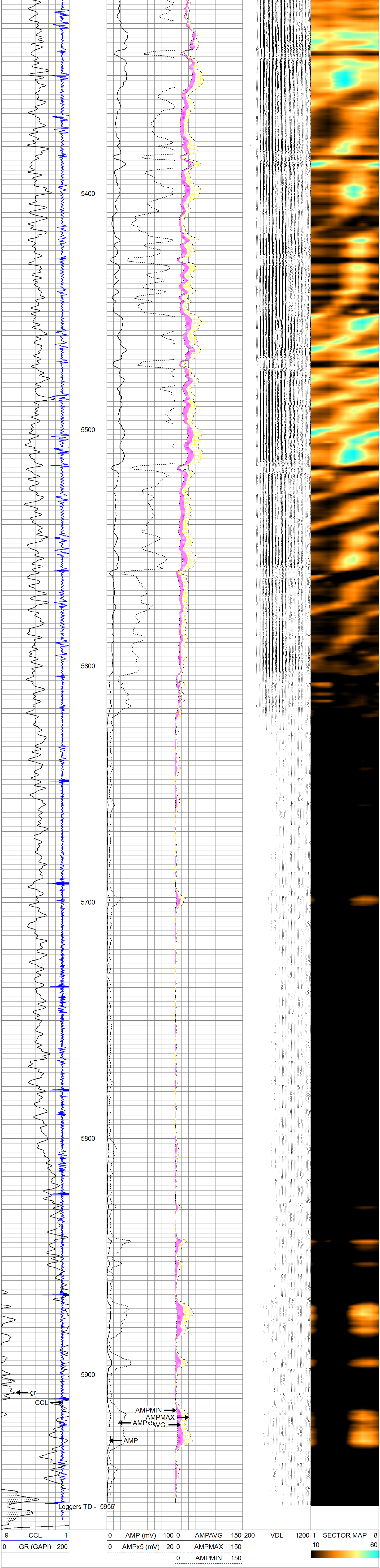












END OF MAIN PASS

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REPEAT SECTION

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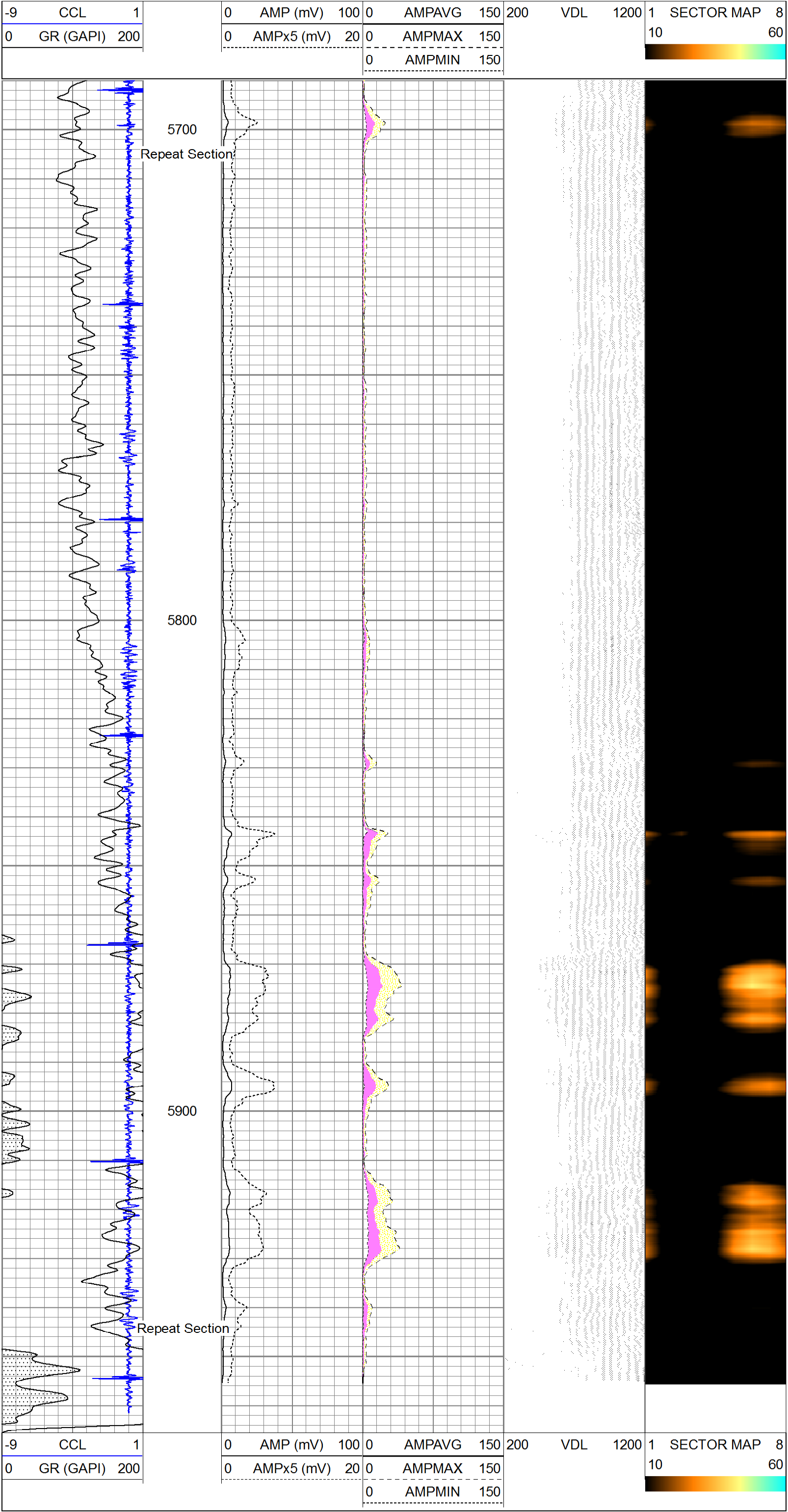
Database File:	13975.db
Dataset Pathname:	pass2.1
Presentation Format:	scbl02
Dataset Creation:	Mon Apr 06 09:53:27 2015 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240



END OF REPEAT

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Calibration Report

Database File:	13975.db
Dataset Pathname:	pass2
Dataset Creation:	Mon Apr 06 08:55:13 2015 by Log Open-Cased 110302

Gamma Ray Calibration Report

Serial Number:	51013	
Tool Model:	probe 2.75	
Performed:	Mon Mar 02 09:34:13 2015	
Calibrator Value:	1400.0	GAPI
Background Reading:	26.8	cps
Calibrator Reading:	1120.0	cps
Sensitivity:	0.9000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	11206	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	349.843	ft

Master Calibration, performed Fri Apr 03 10:26:13 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.052	0.469	1.000	62.165	146.673	-6.647
CAL	0.996	1.034				
5'	0.016	0.395	1.000	62.165	161.441	-1.582
SUM						
S1	0.040	0.428	0.000	100.000	248.105	-10.448
S2	0.047	0.465	0.000	100.000	239.099	-11.184
S3	0.049	0.478	0.000	100.000	232.966	-11.415
S4	0.055	0.486	0.000	100.000	232.529	-11.901
S5	0.059	0.493	0.000	100.000	230.378	-11.516
S6	0.052	0.489	0.000	100.000	229.057	-11.953
S7	0.046	0.469	0.000	100.000	236.094	-10.767
S8	0.045	0.451	0.000	100.000	236.183	-11.035

Internal Reference Calibration, performed Wed Mar 18 08:19:43 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.996	1.034	1.000	0.000

Air Zero Calibration, performed Fri Mar 27 08:54:57 2015:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Temperature Calibration Report

Serial Number:	11206	
Tool Model:	RBT-C3	
Performed:	Fri Mar 27 09:52:14 2015	
	Reference	Reading
Low Reference:	0.00 degF	0.00 degF
High Reference:	1.00 degF	1.00 degF
Gain:	1.00	
Offset:	0.00	
Delta Spacing	1	

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Well	BRINGELSON RANCH 17-20-9-58
Field	WILDCAT
County	WELD
State	CO