BHTV DATA PROCESSING
RGLDIP vsn 6.2
ACOUSTIC CALIPER LOG

23 Jan 2008

CH2M HILL

Borehole: AD-3

PEF-LNP COLA

top of borehole.....
East: _
North: _
Elev: _

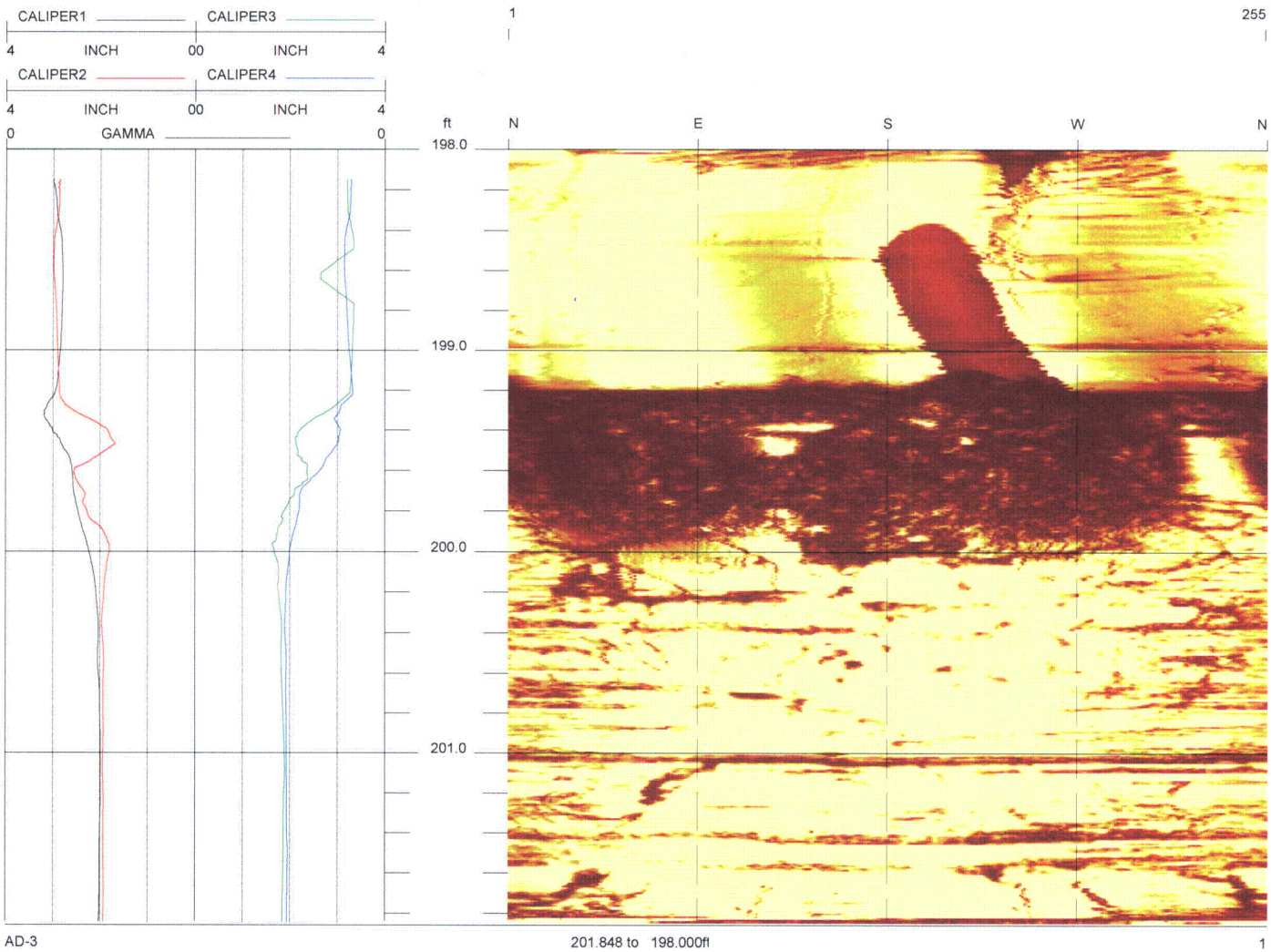
North ref. is true
Depth units are feet
Vertical scale: 1/10

Zone from 329.924 to 198.000ft

Borehole diam: 3.996inch
Vertical = borehole-axis
Image: Amplitude

Depth interval 0.008ft, Filter length 0.120ft

REFLECTANCE

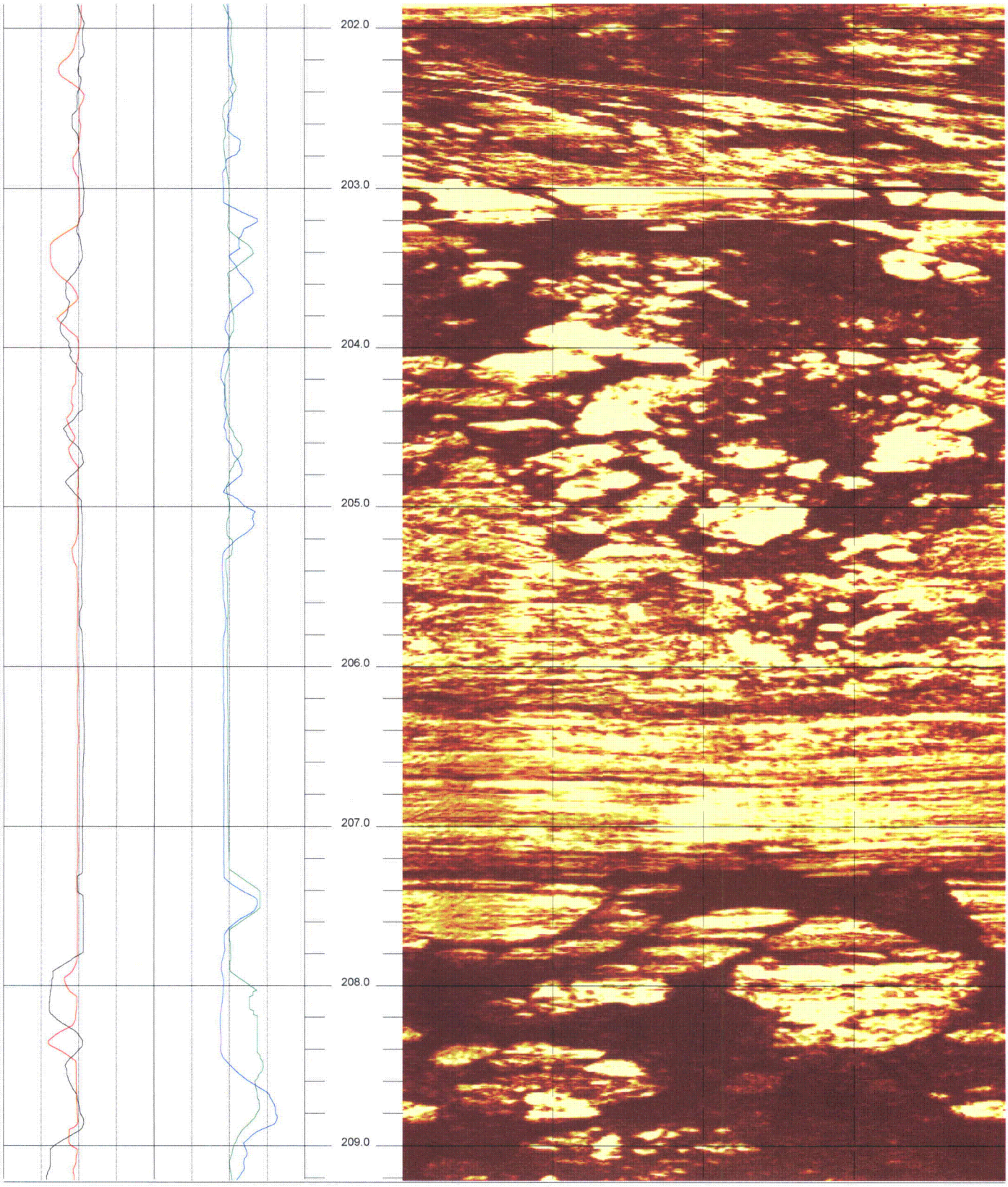


AD-3

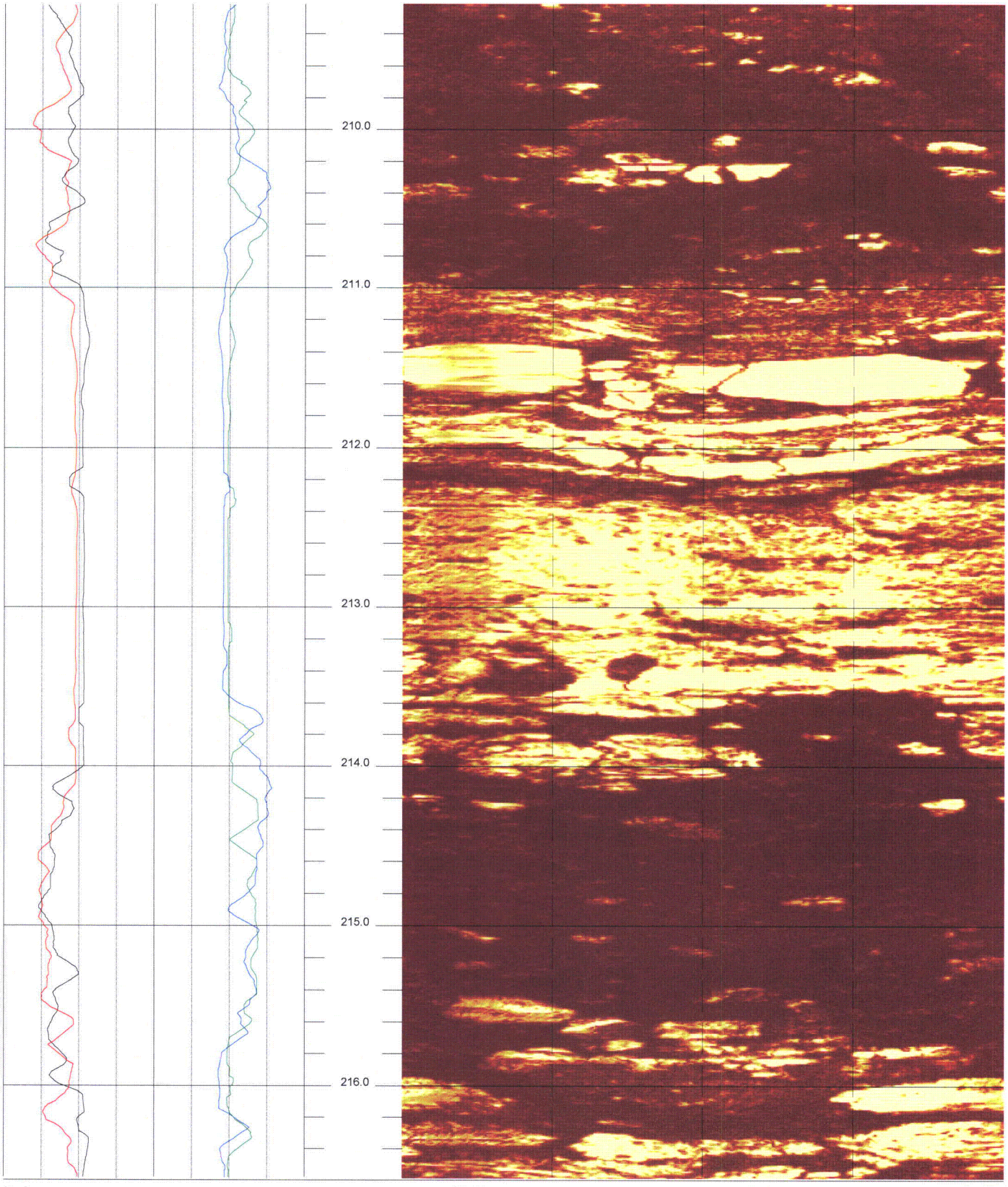
201.848 to 198.000ft

1

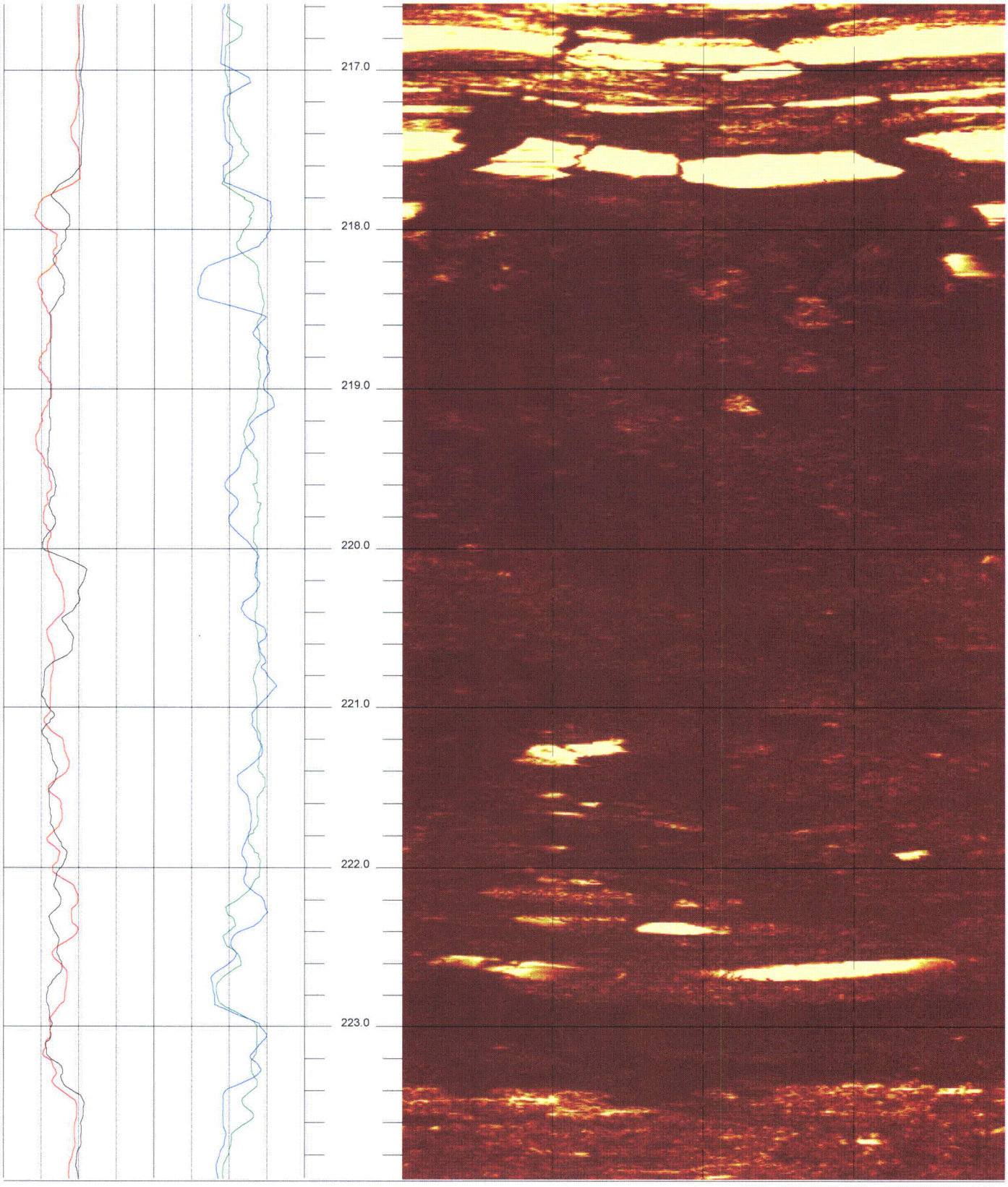
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 1 of 19



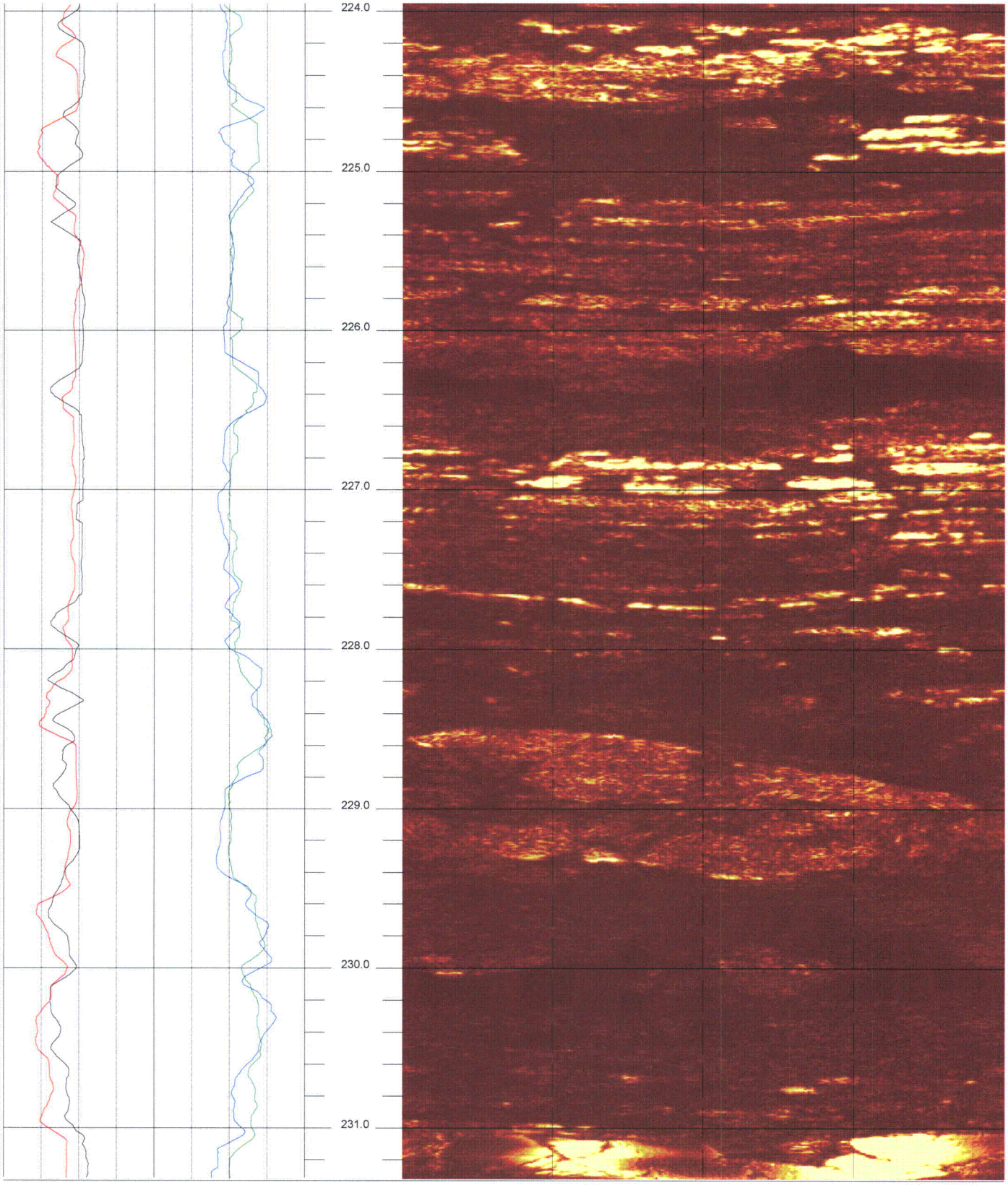
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 2 of 19



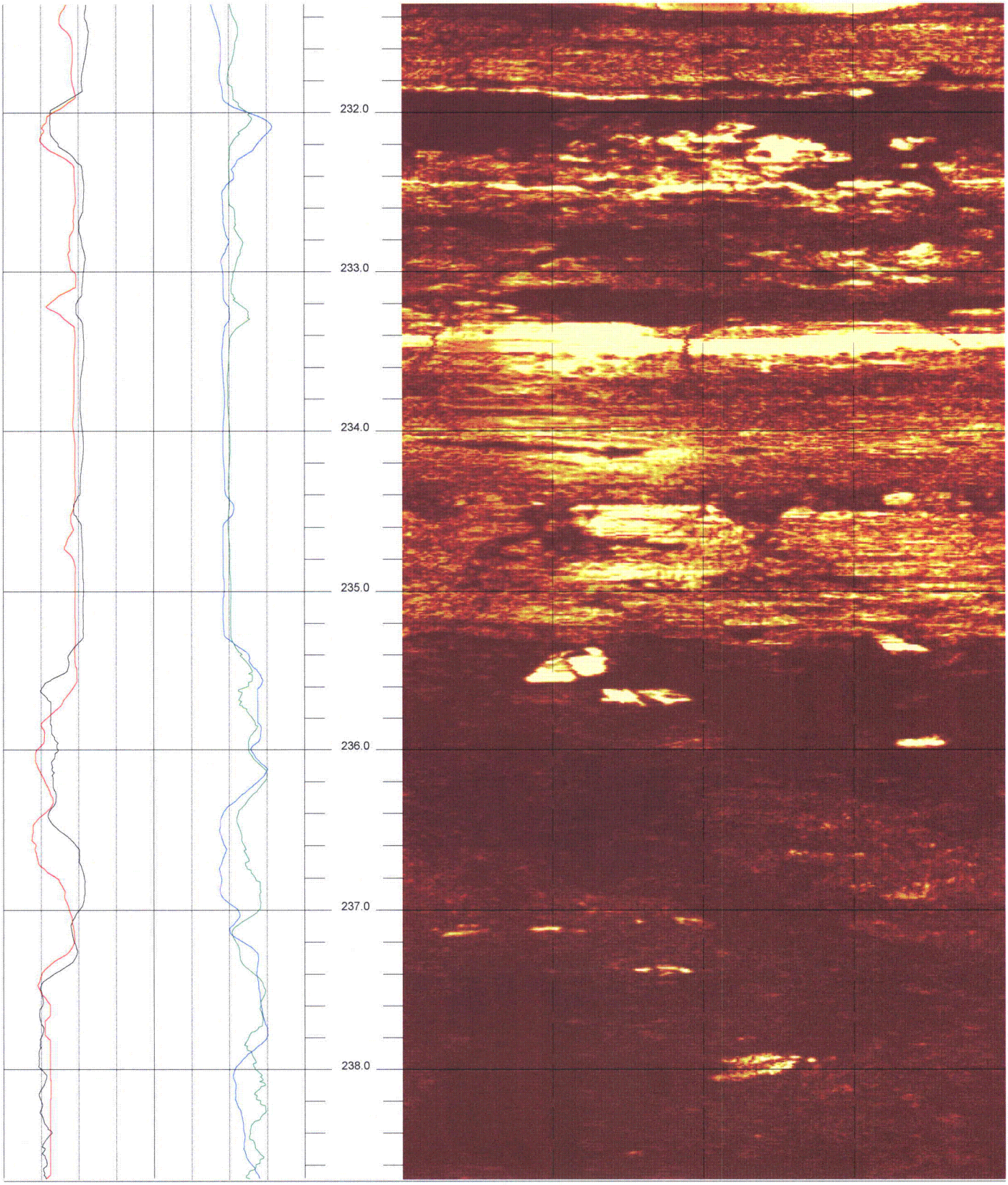
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 3 of 19



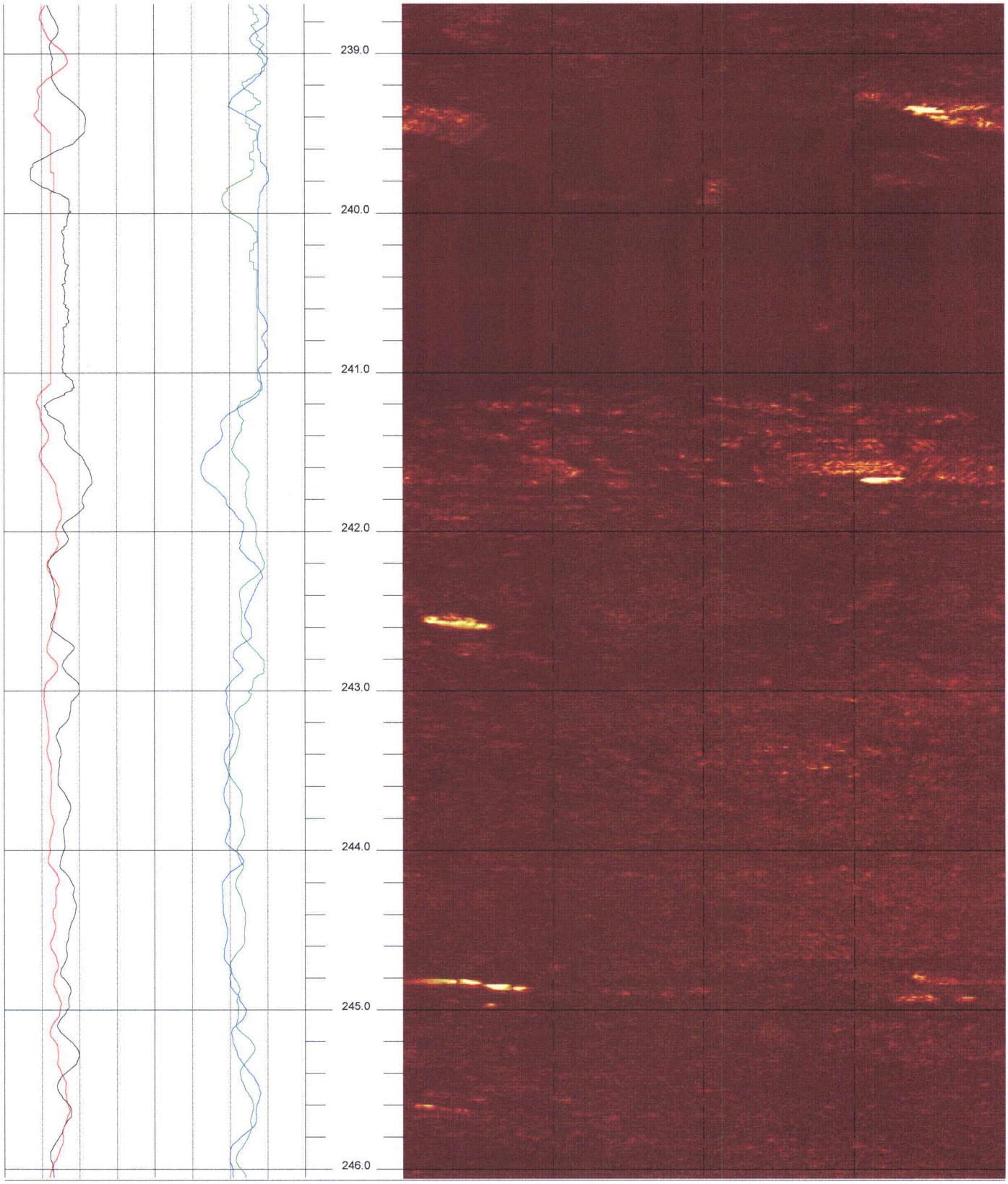
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 4 of 19



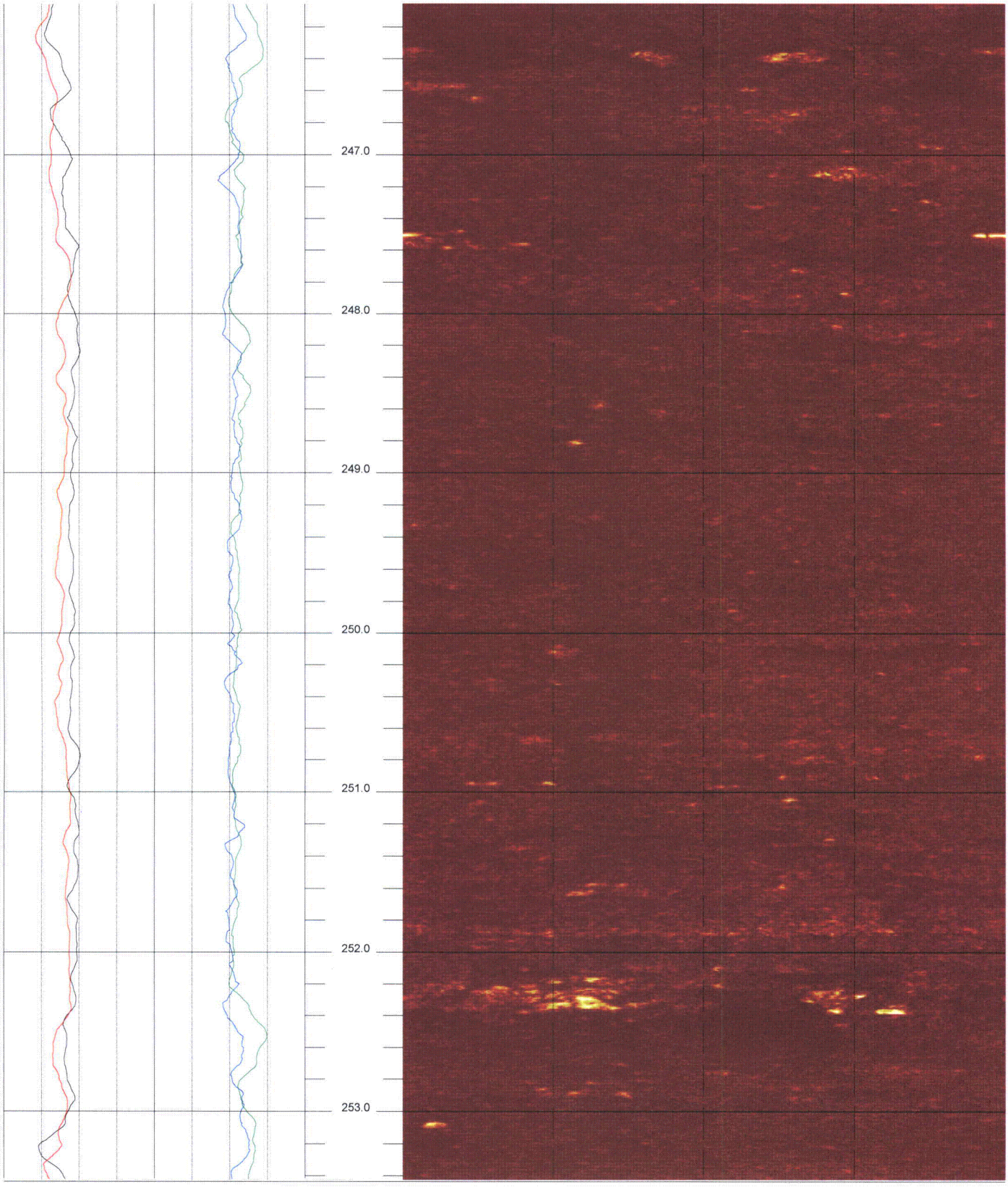
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 5 of 19



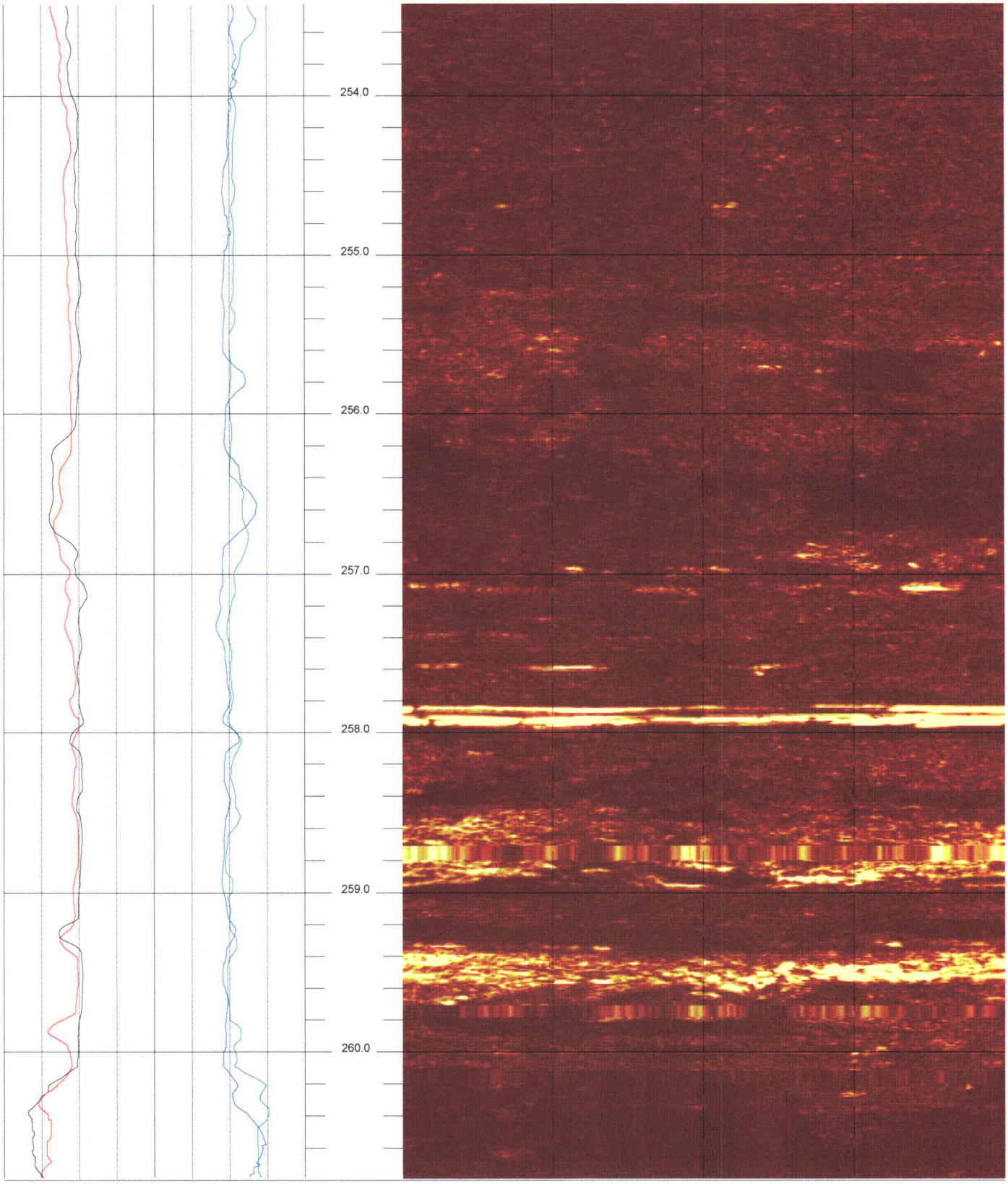
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 6 of 19



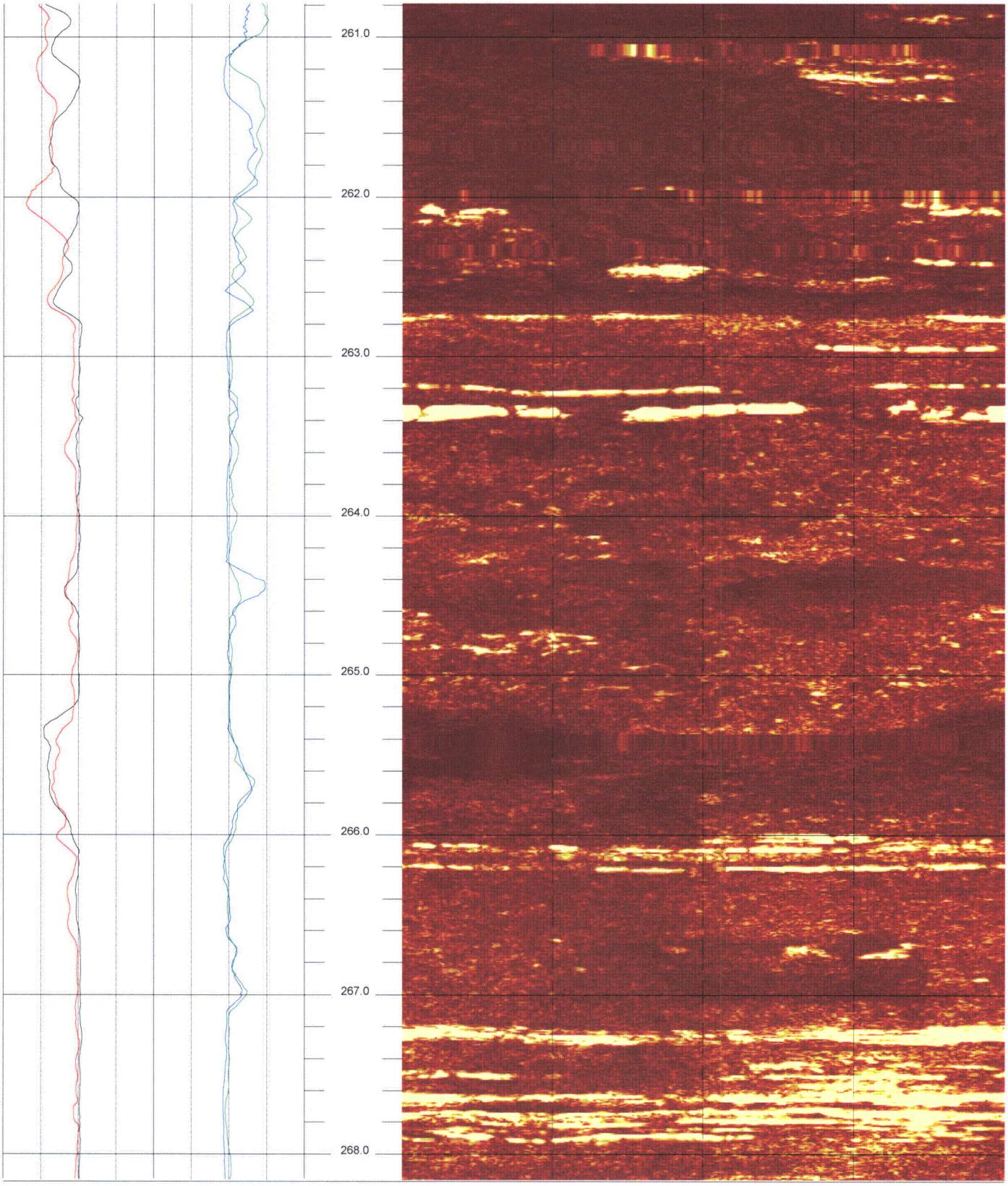
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 7 of 19



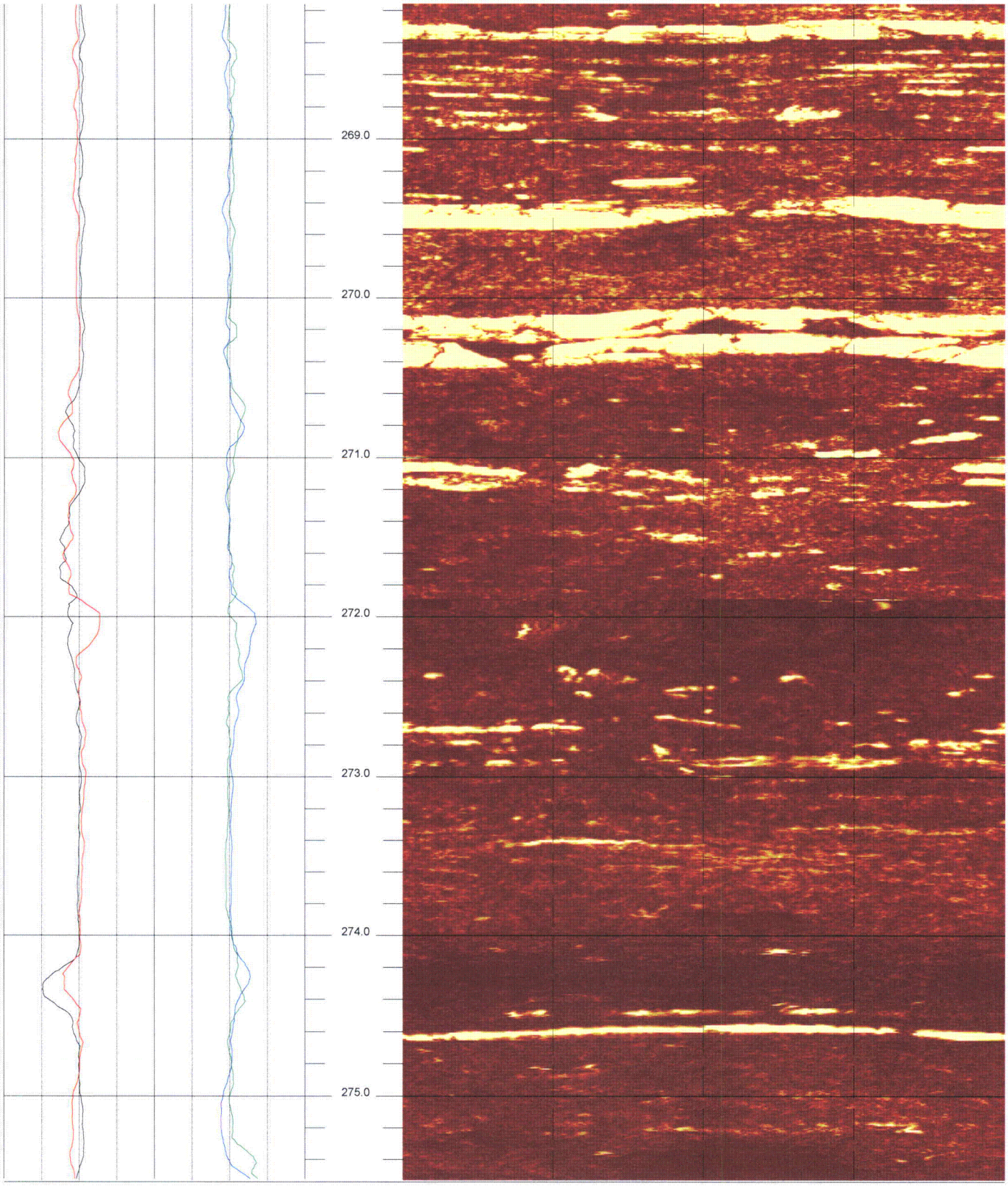
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 8 of 19



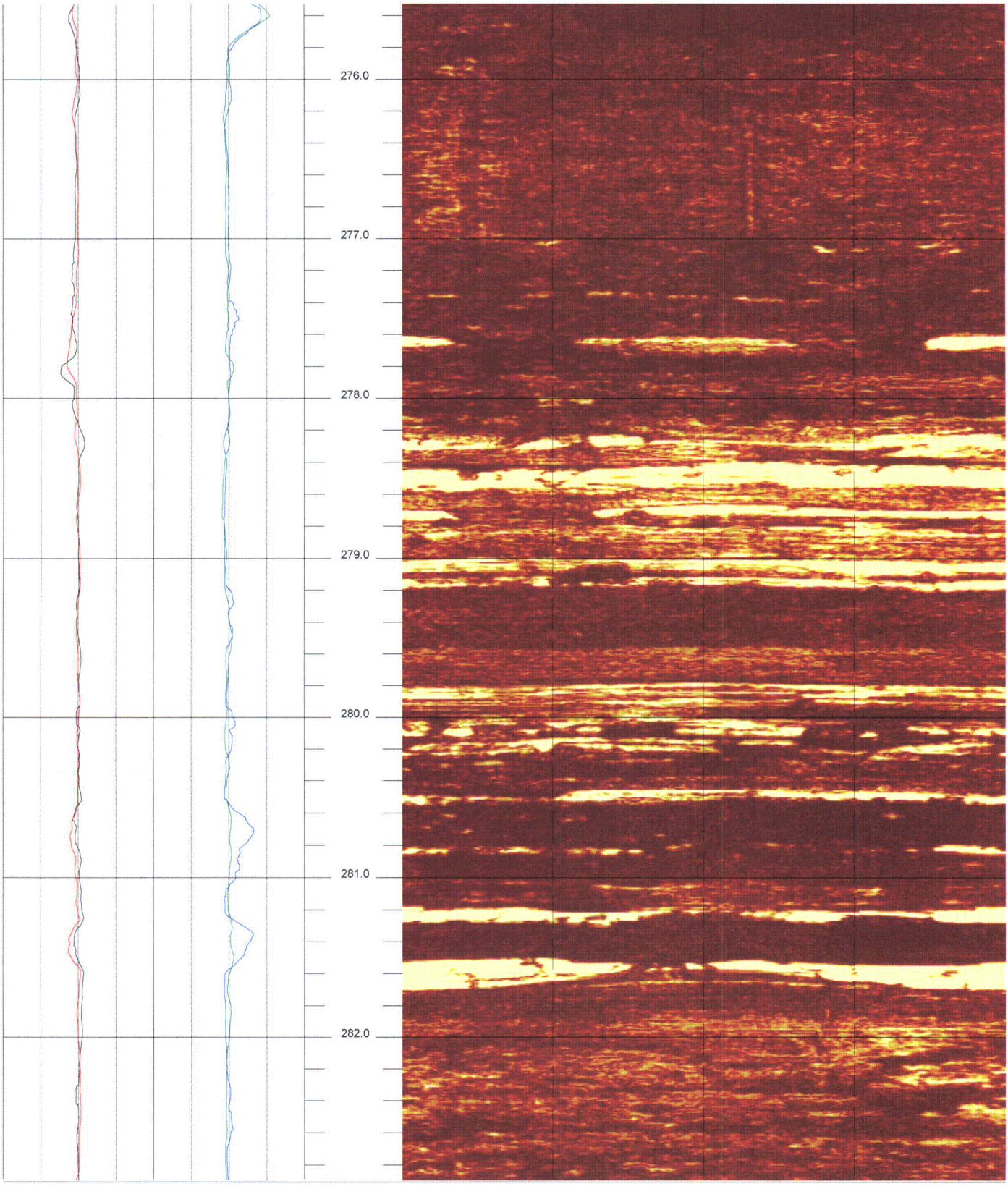
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 9 of 19



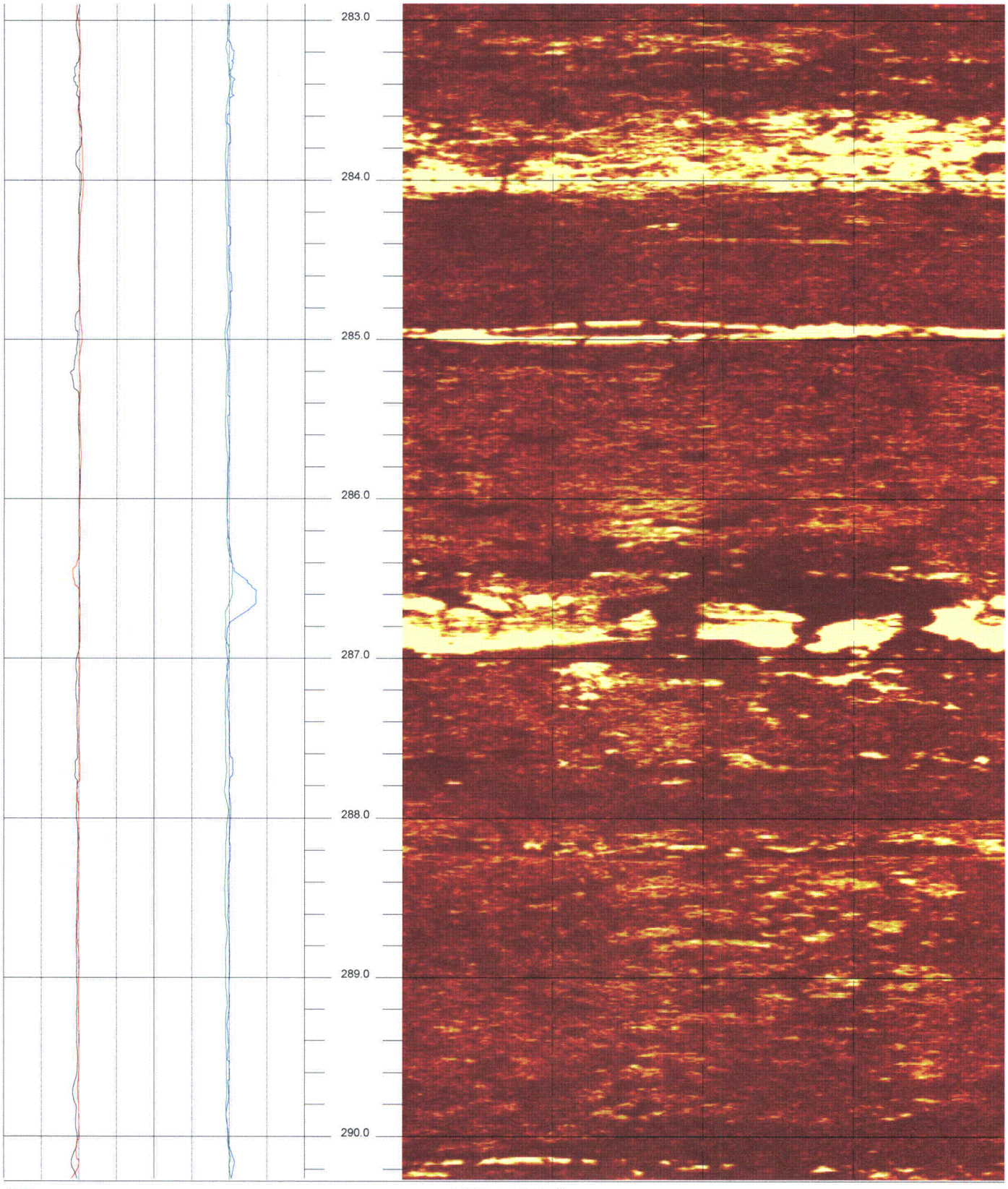
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 10 of 19



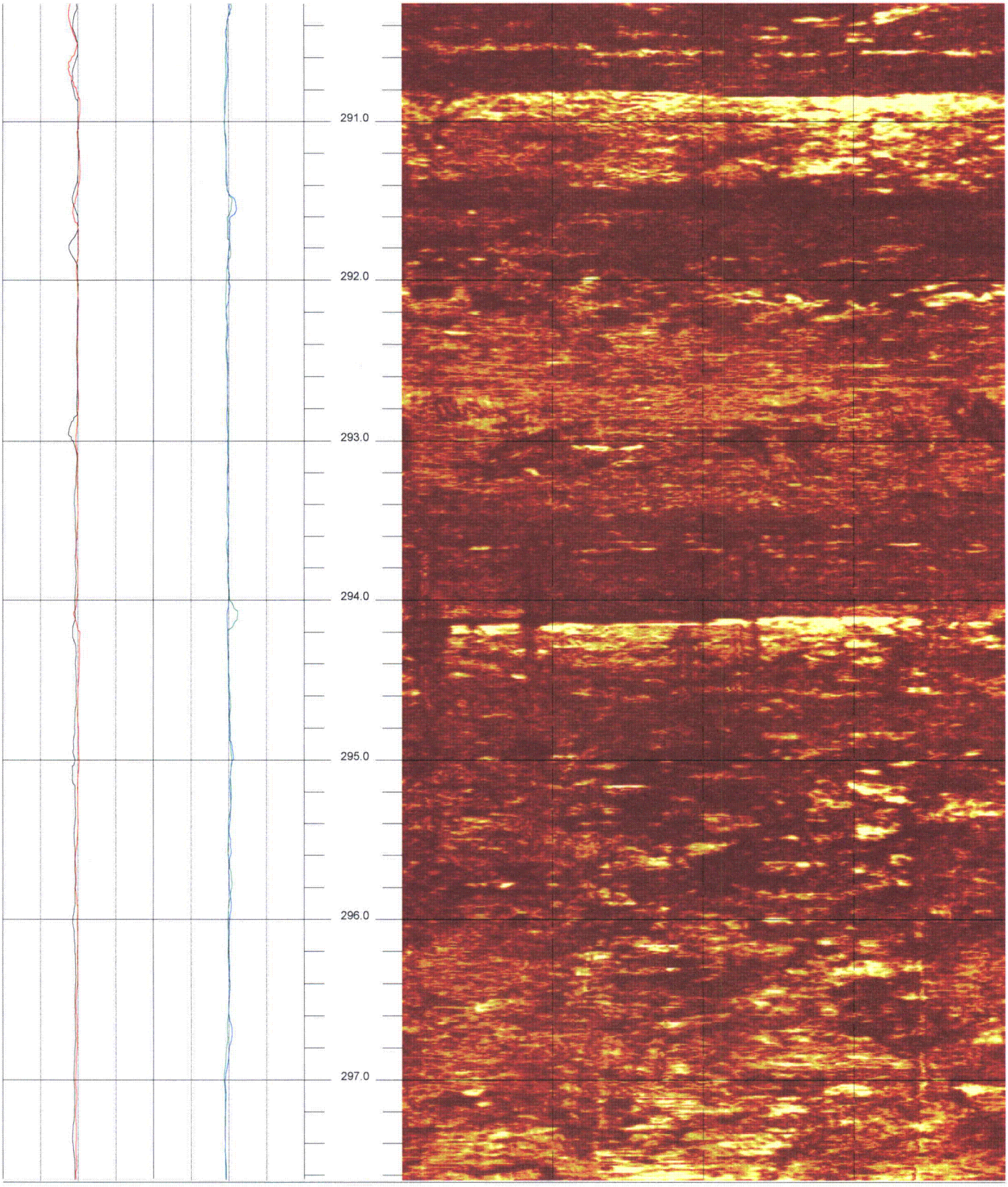
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 11 of 19



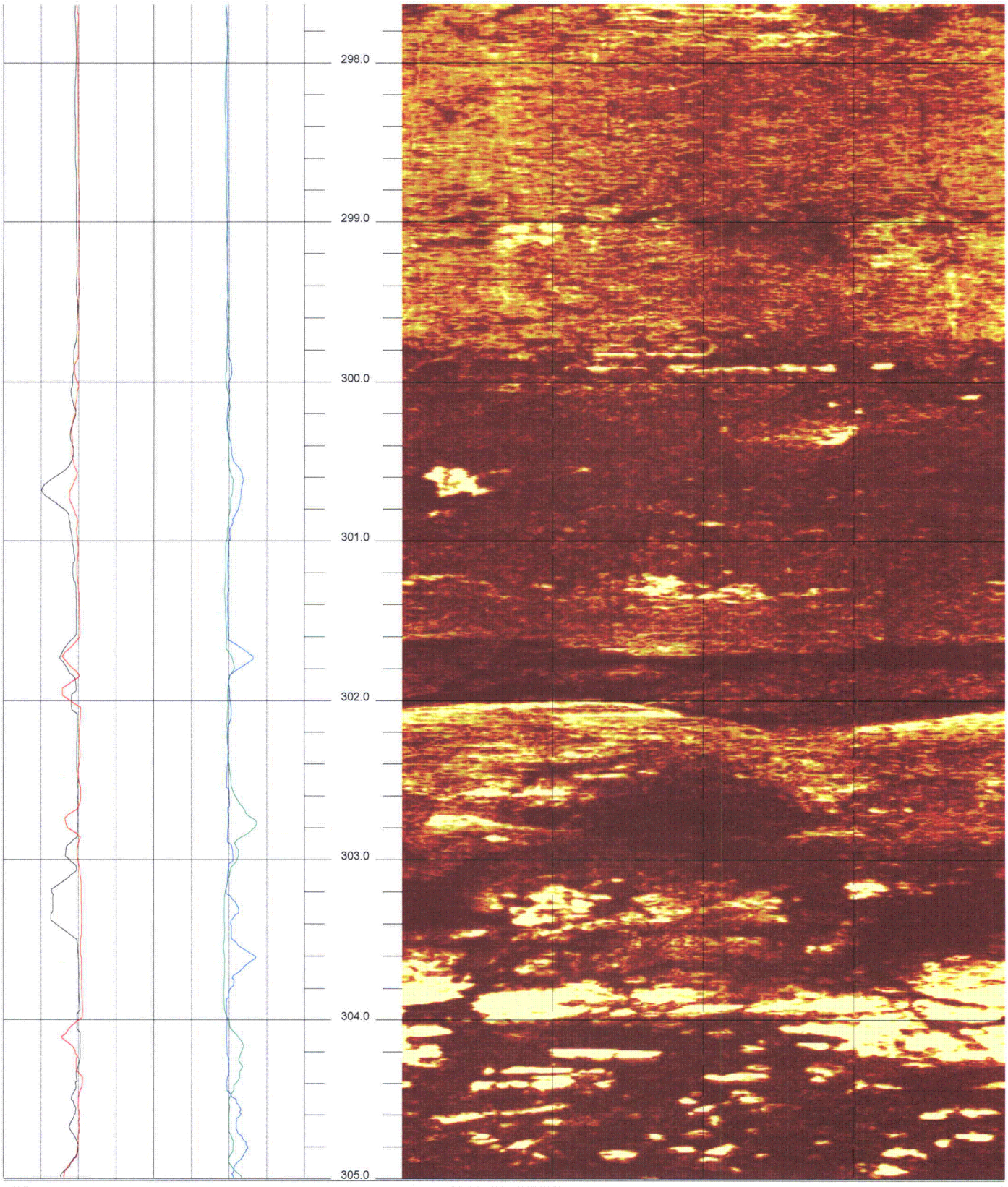
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 12 of 19



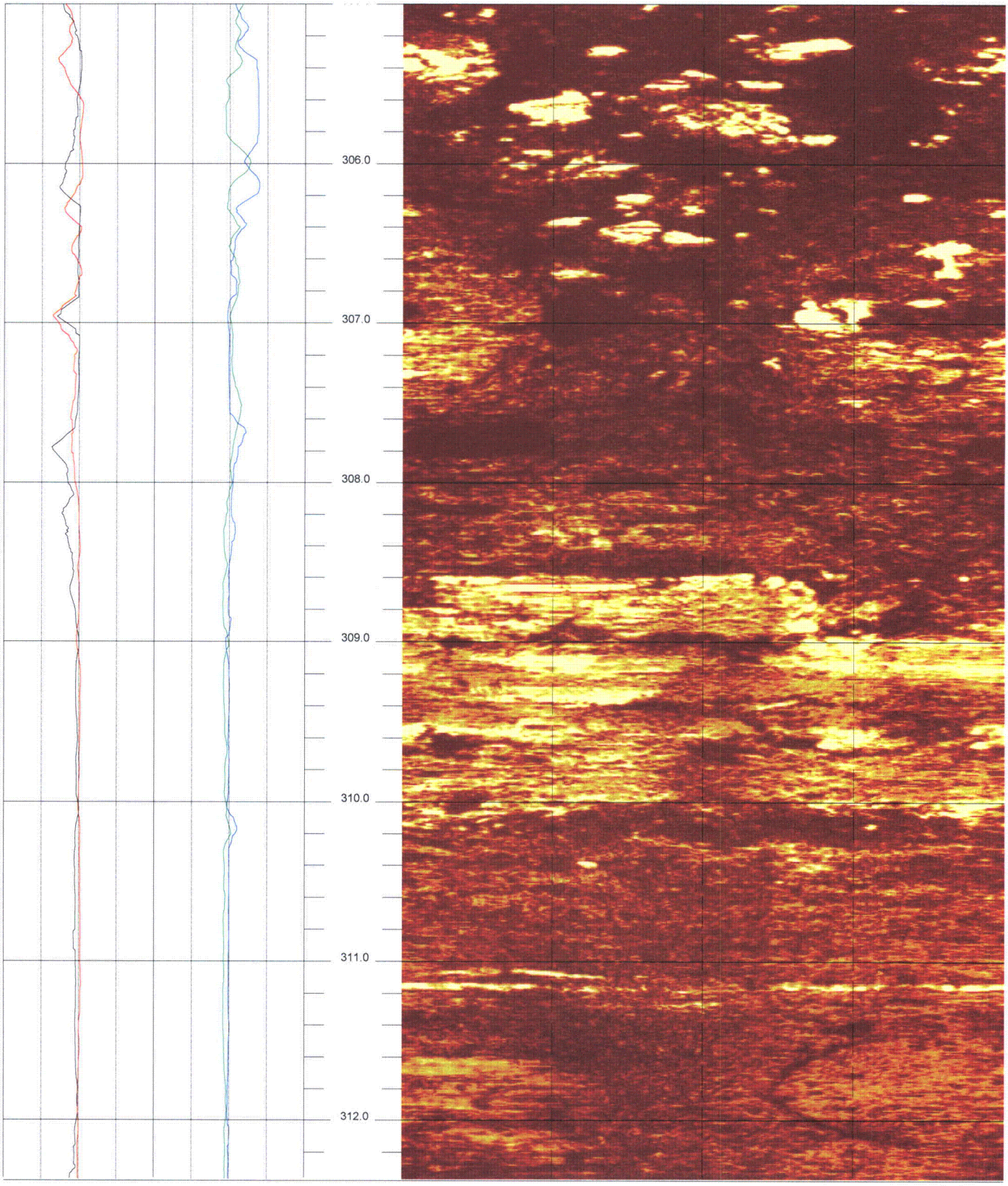
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 13 of 19



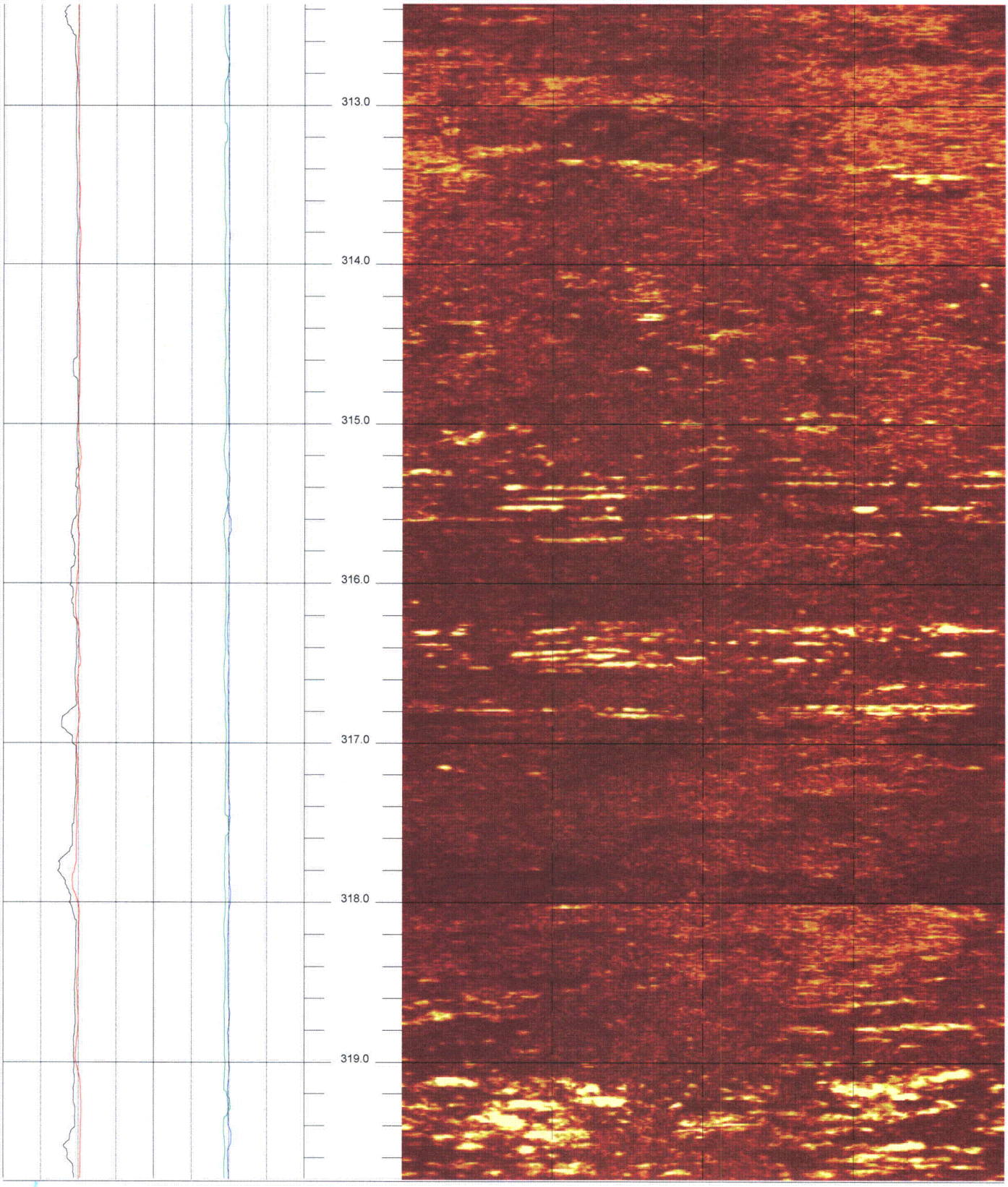
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 14 of 19



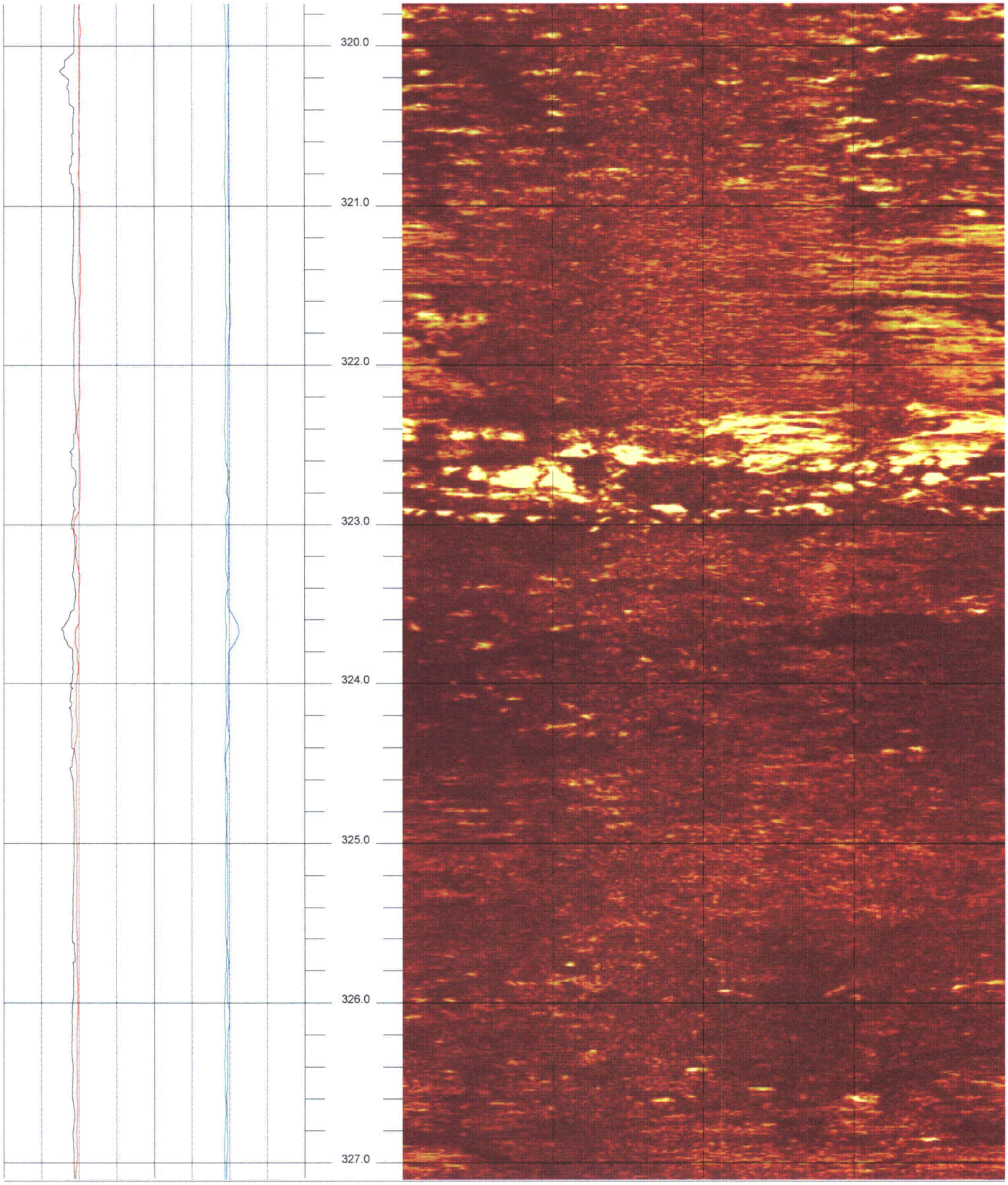
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 15 of 19



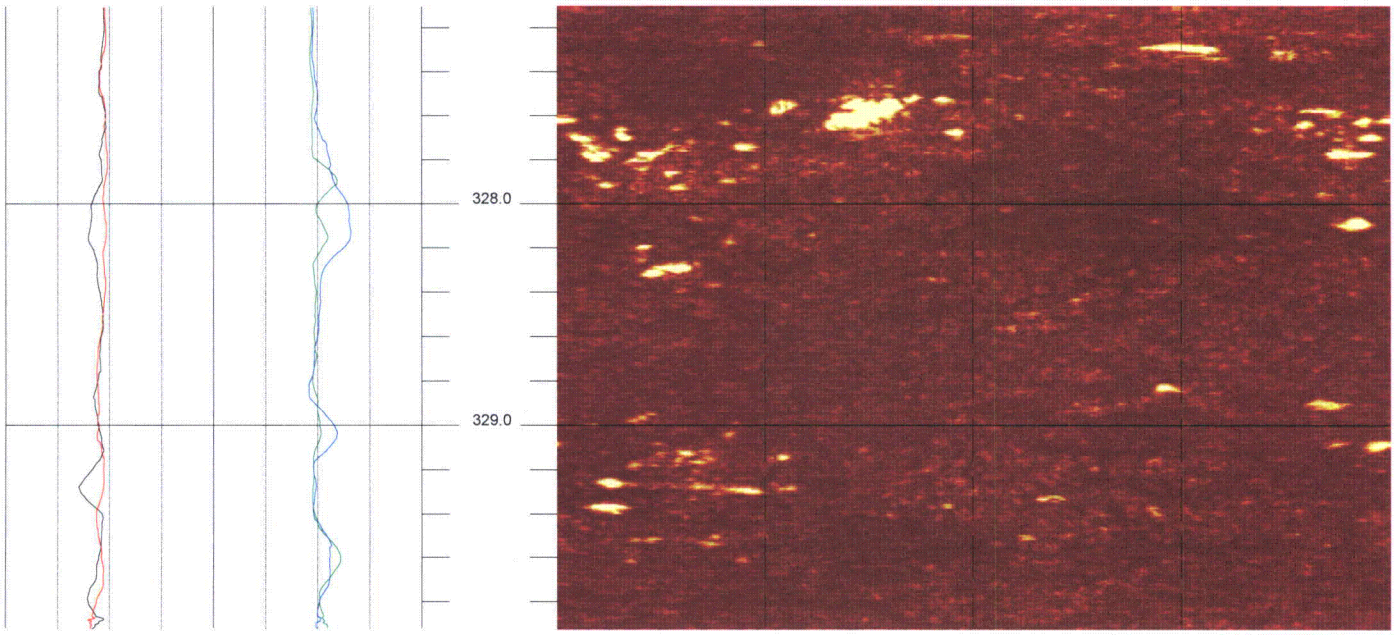
PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 16 of 19



PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 17 of 19



PEF-LNP COLA Boring AD-3 upper section Acoustic Televiewer based Caliper rev 1 Sheet 18 of 19


328.0
329.0

BHTV DATA PROCESSING
RGLDIP vsn 6.2
ACOUSTIC CALIPER LOG

23 Jan 2008

GEOVISION

Borehole: AD-3 LOWER

PEF-LNP COLA

top of borehole.....
East: _
North: _
Elev: _

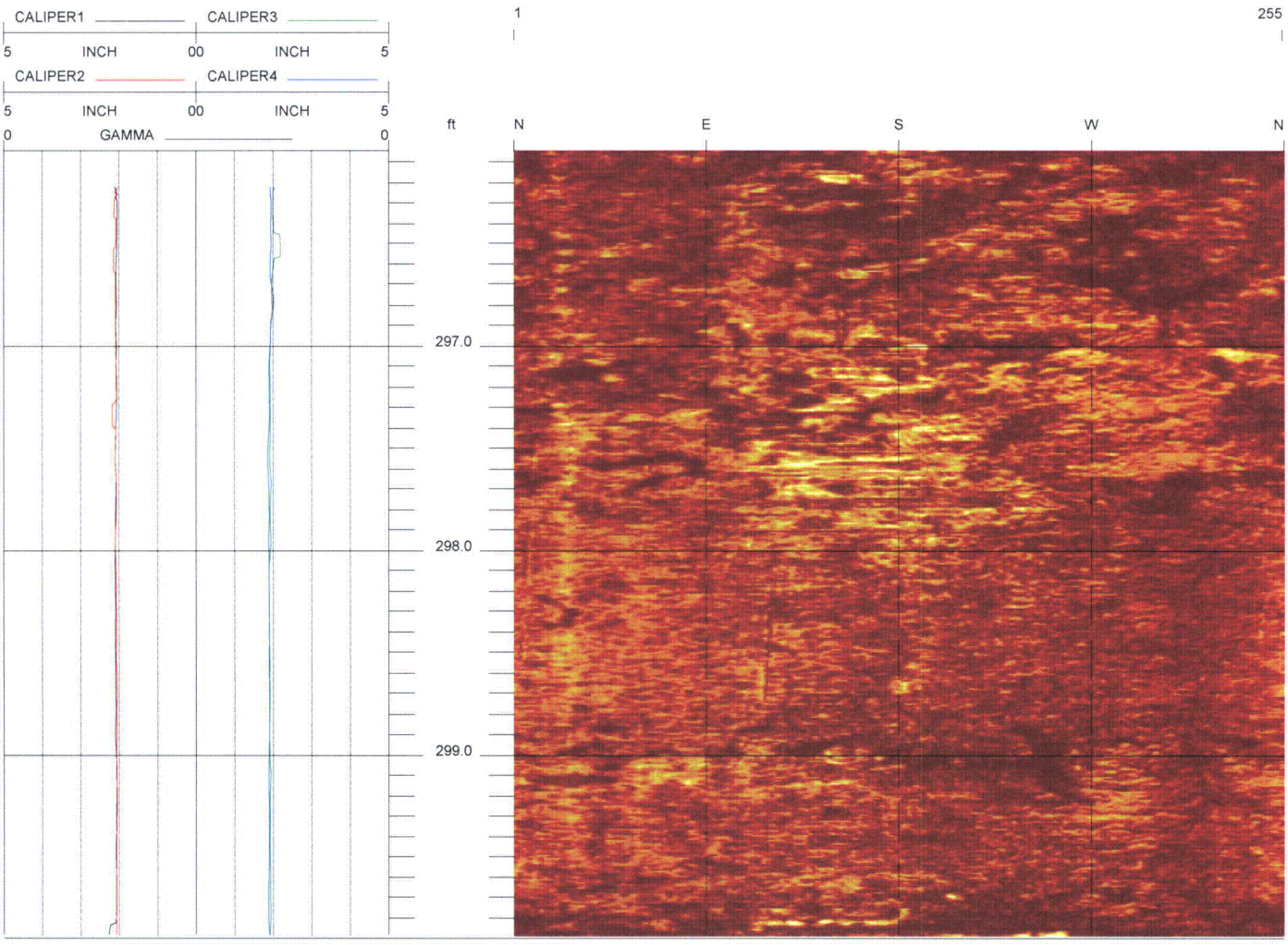
North ref. is true
Depth units are feet
Vertical scale: 1/10

Zone from 491.498 to 296.042ft

Borehole diam: 4.000inch
Vertical = borehole-axis
Image: Amplitude

Depth interval 0.008ft, Filter length 0.120ft

REFLECTANCE

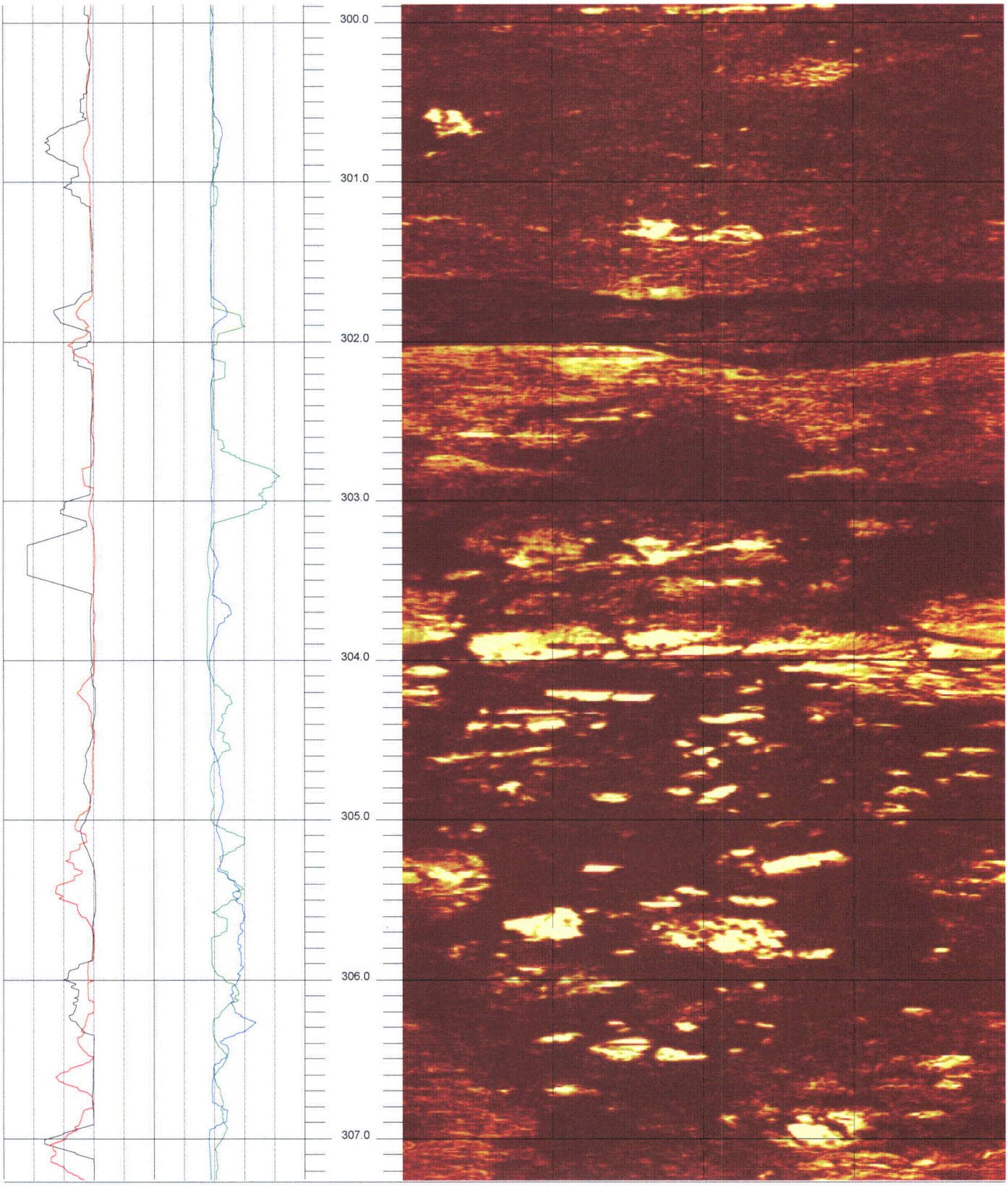


AD-3 LOWER

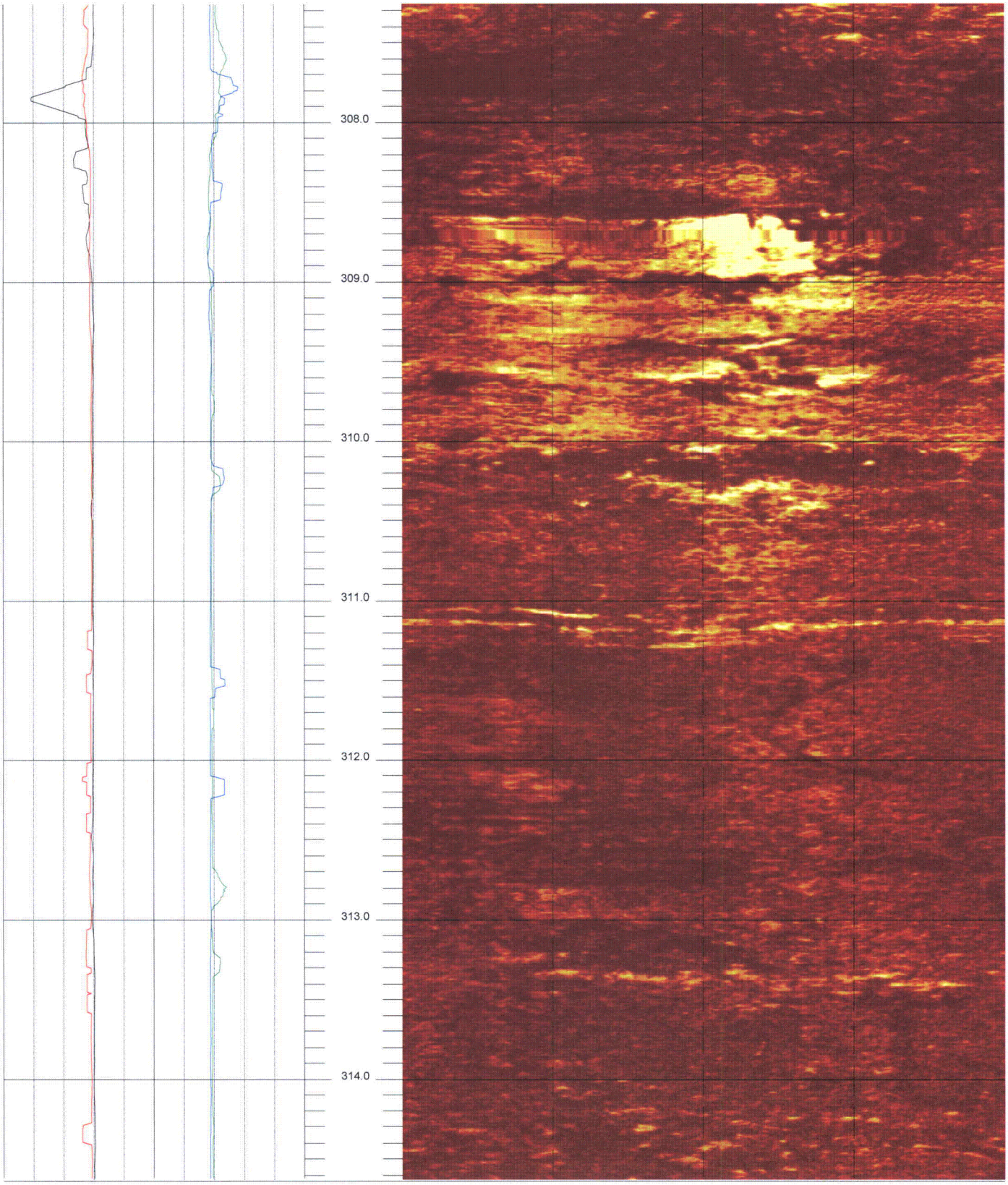
299.890 to 296.042fl

1

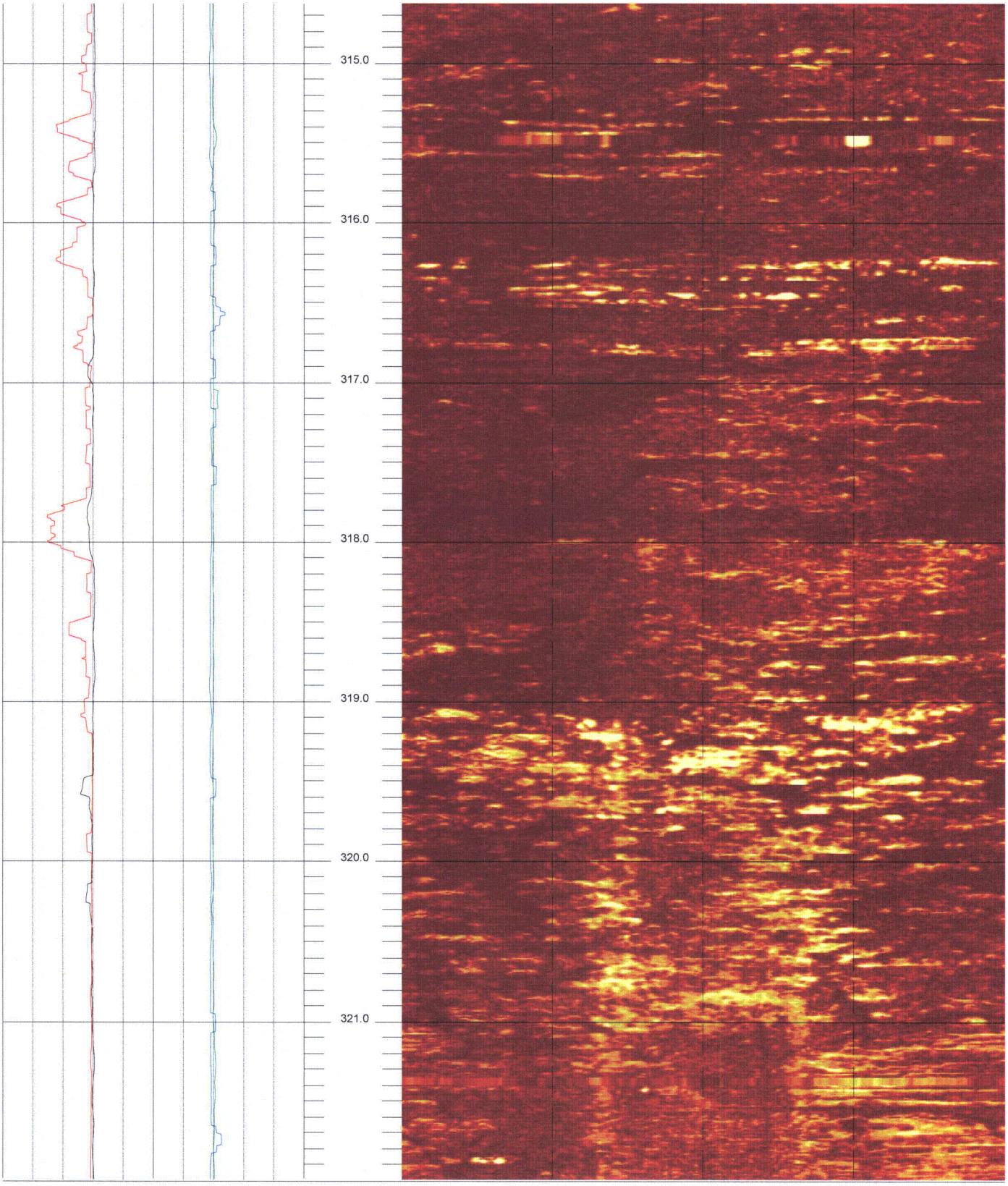
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 1 of 28



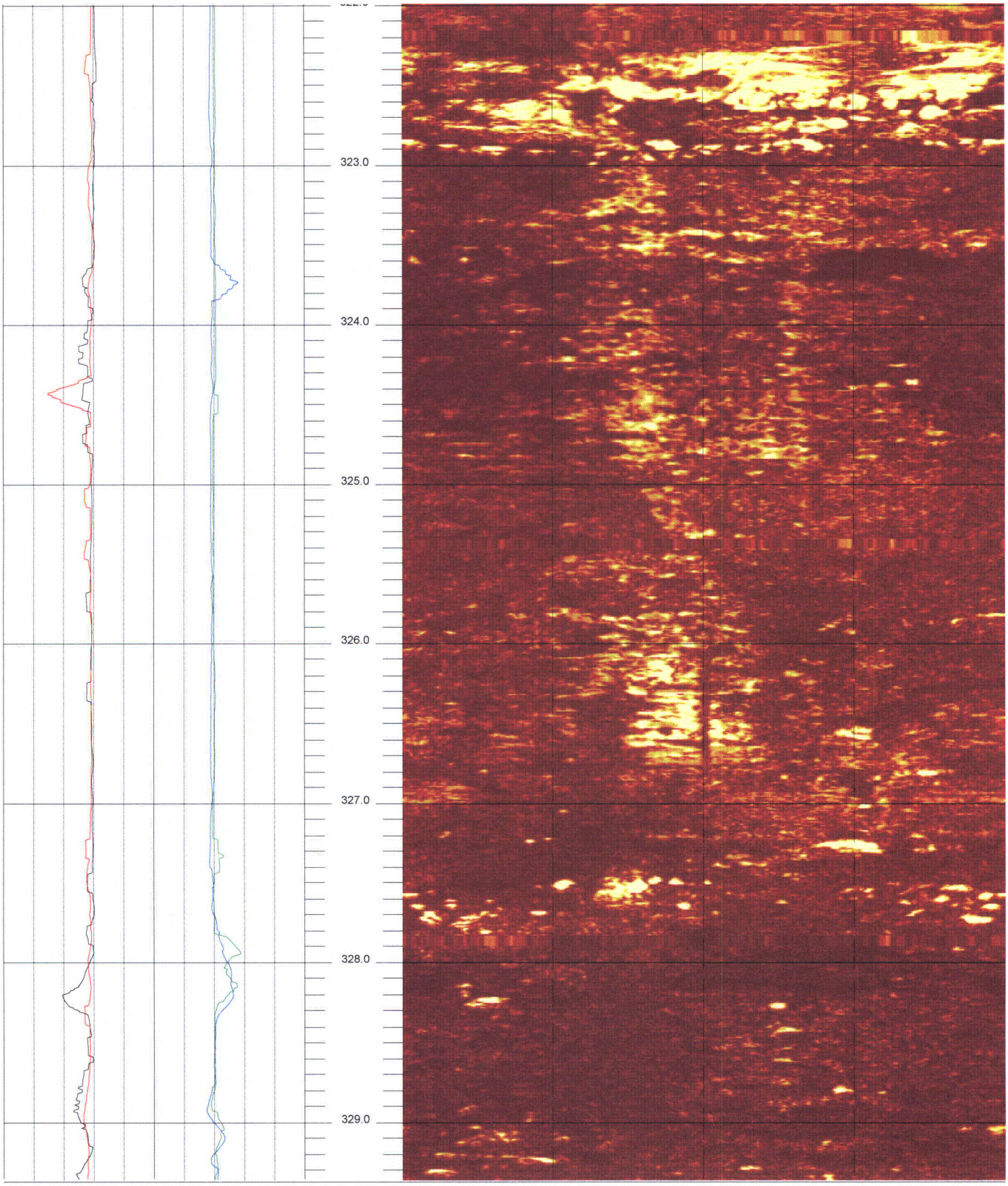
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 2 of 28



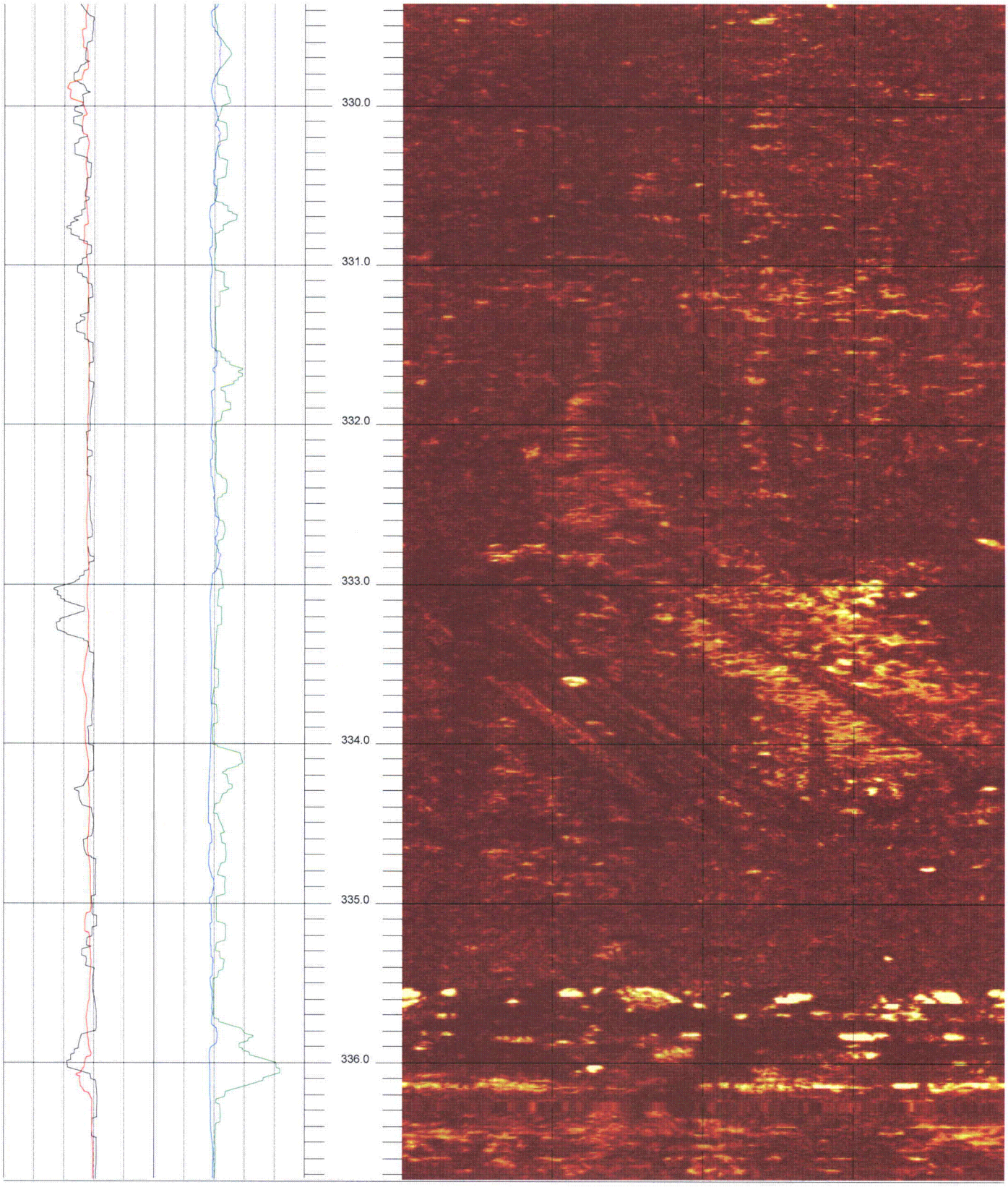
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 3 of 28



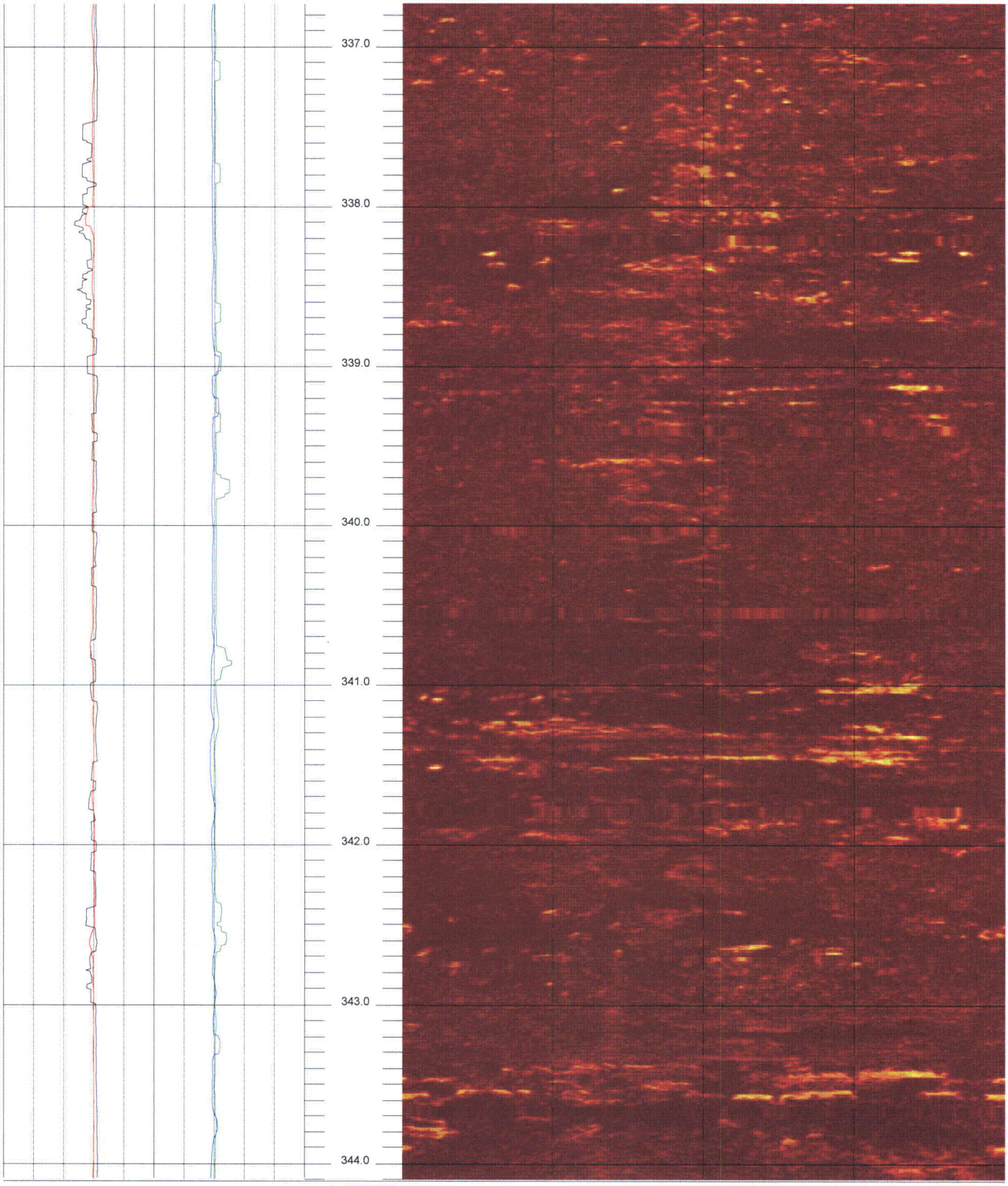
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 4 of 28



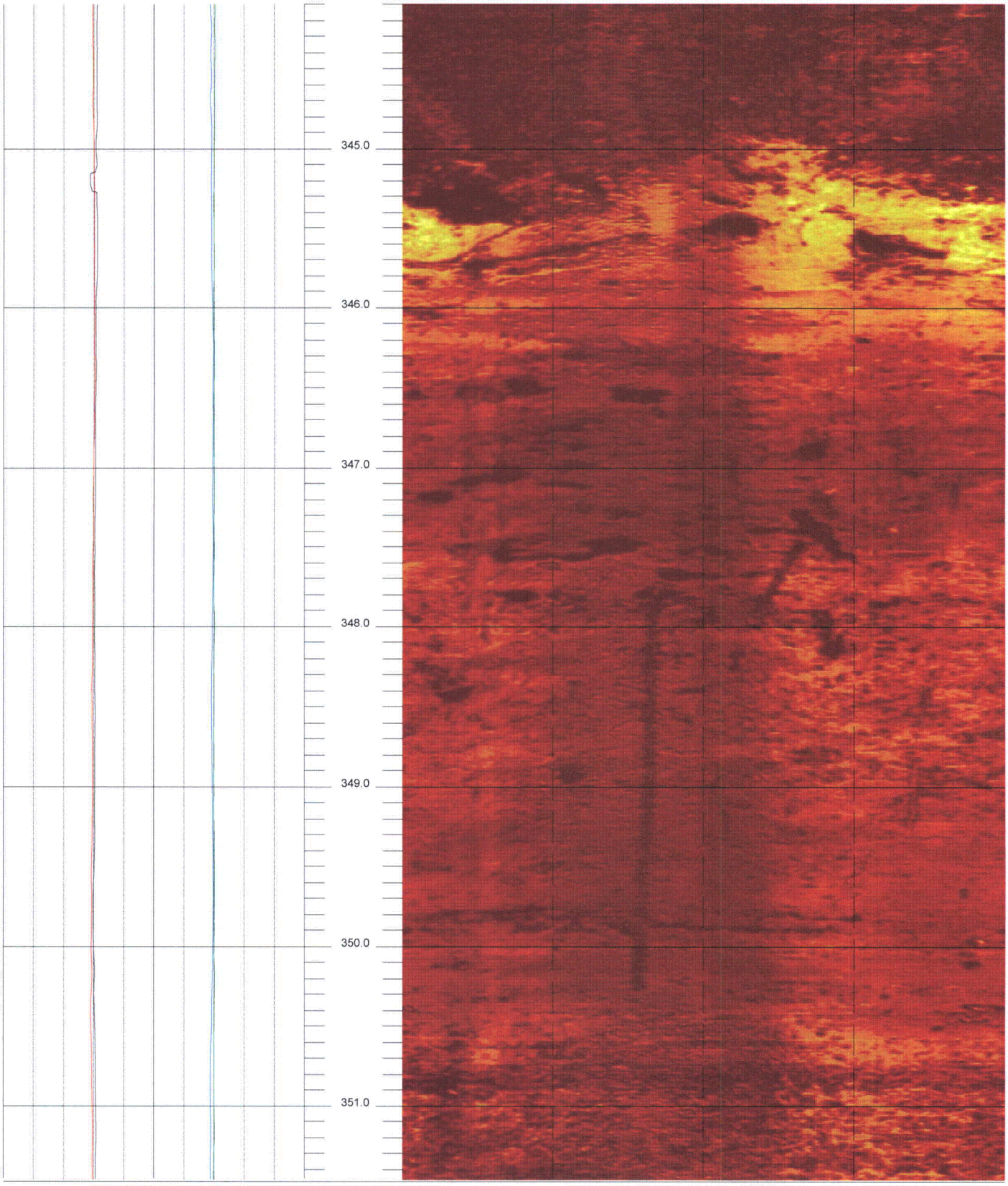
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 5 of 28



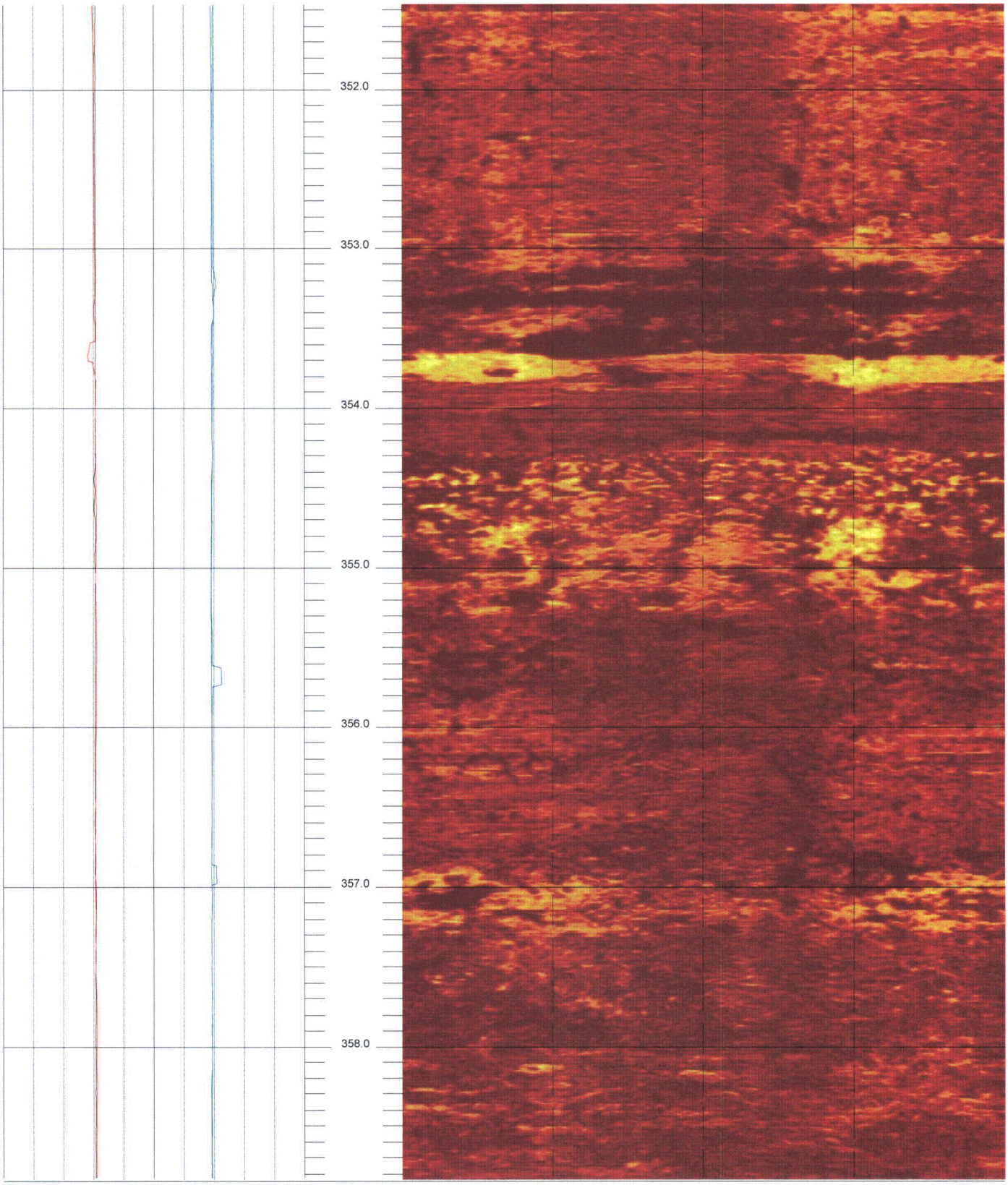
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 6 of 28



PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 7 of 28

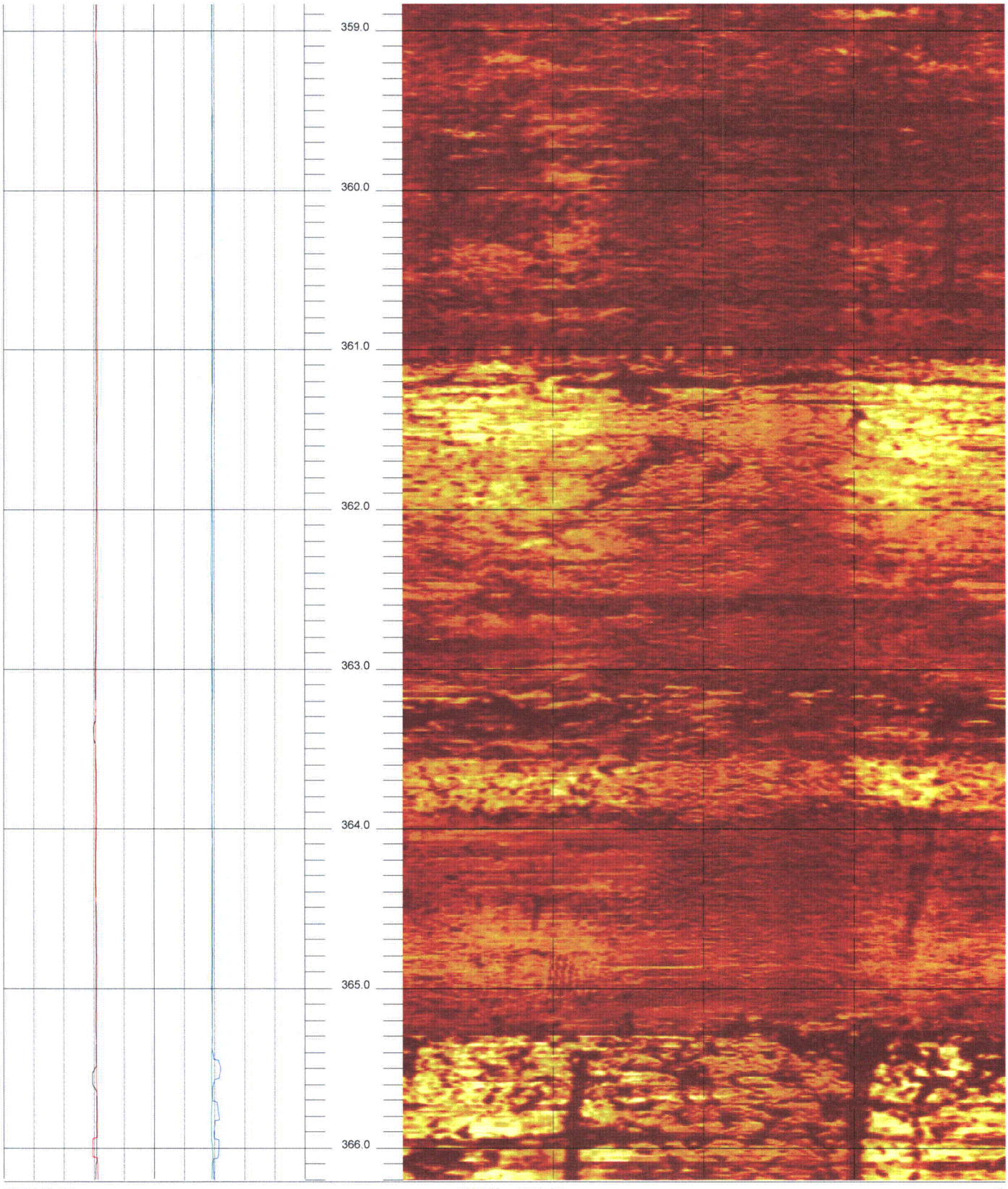


PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 8 of 28

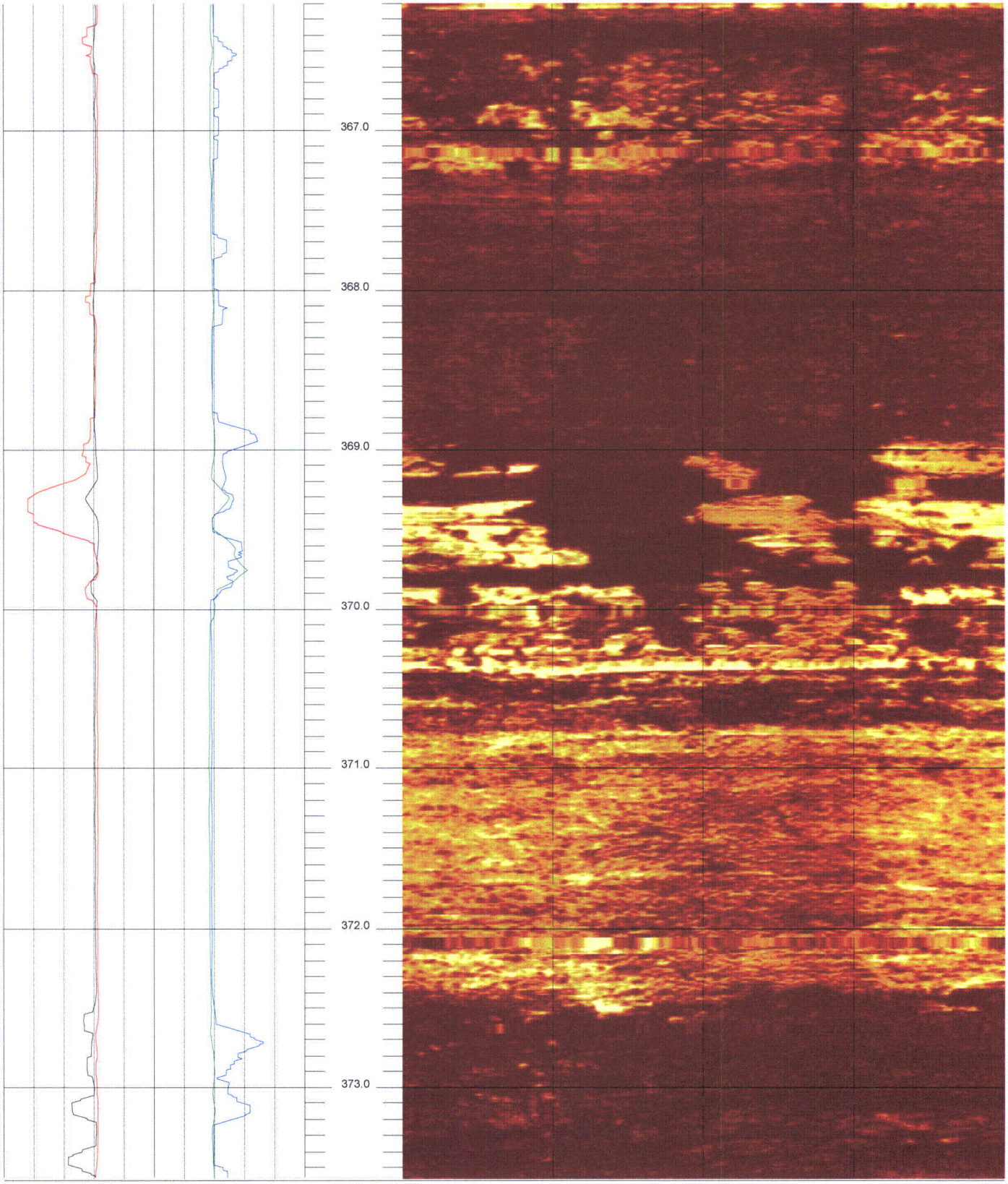


AD-3 LOWER 358.834 to 351.466fl 9

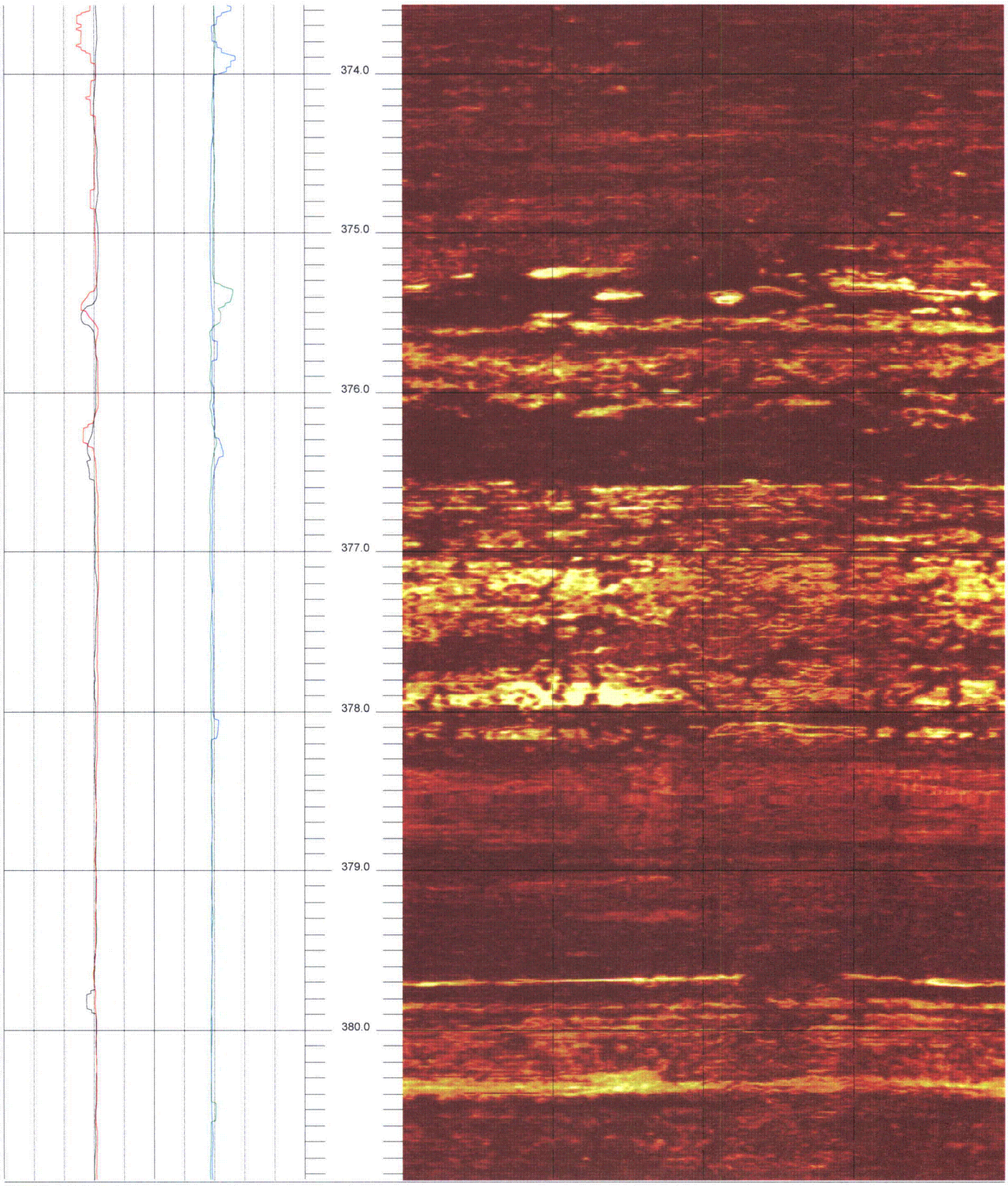
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 9 of 28



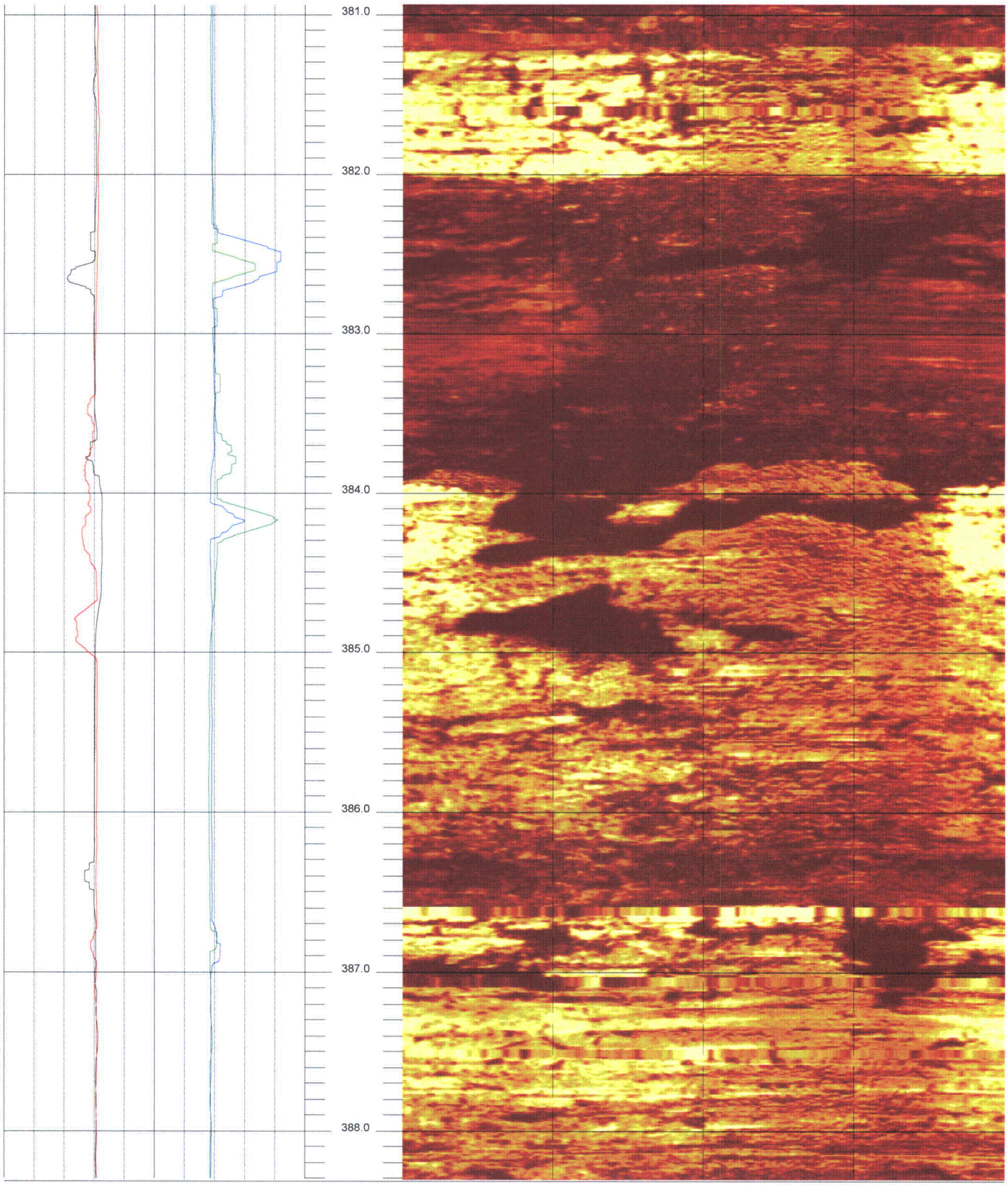
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 10 of 28



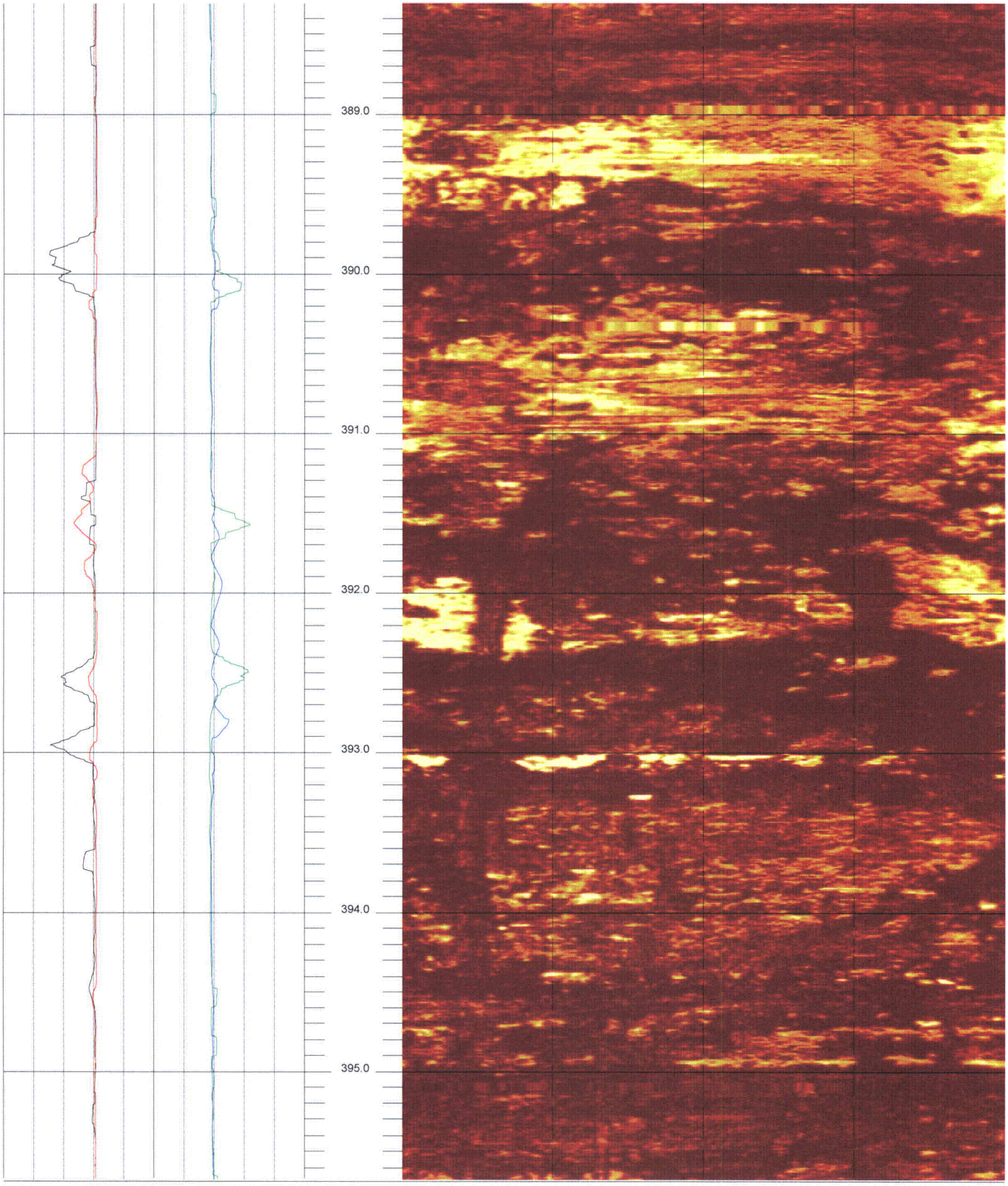
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 11 of 28



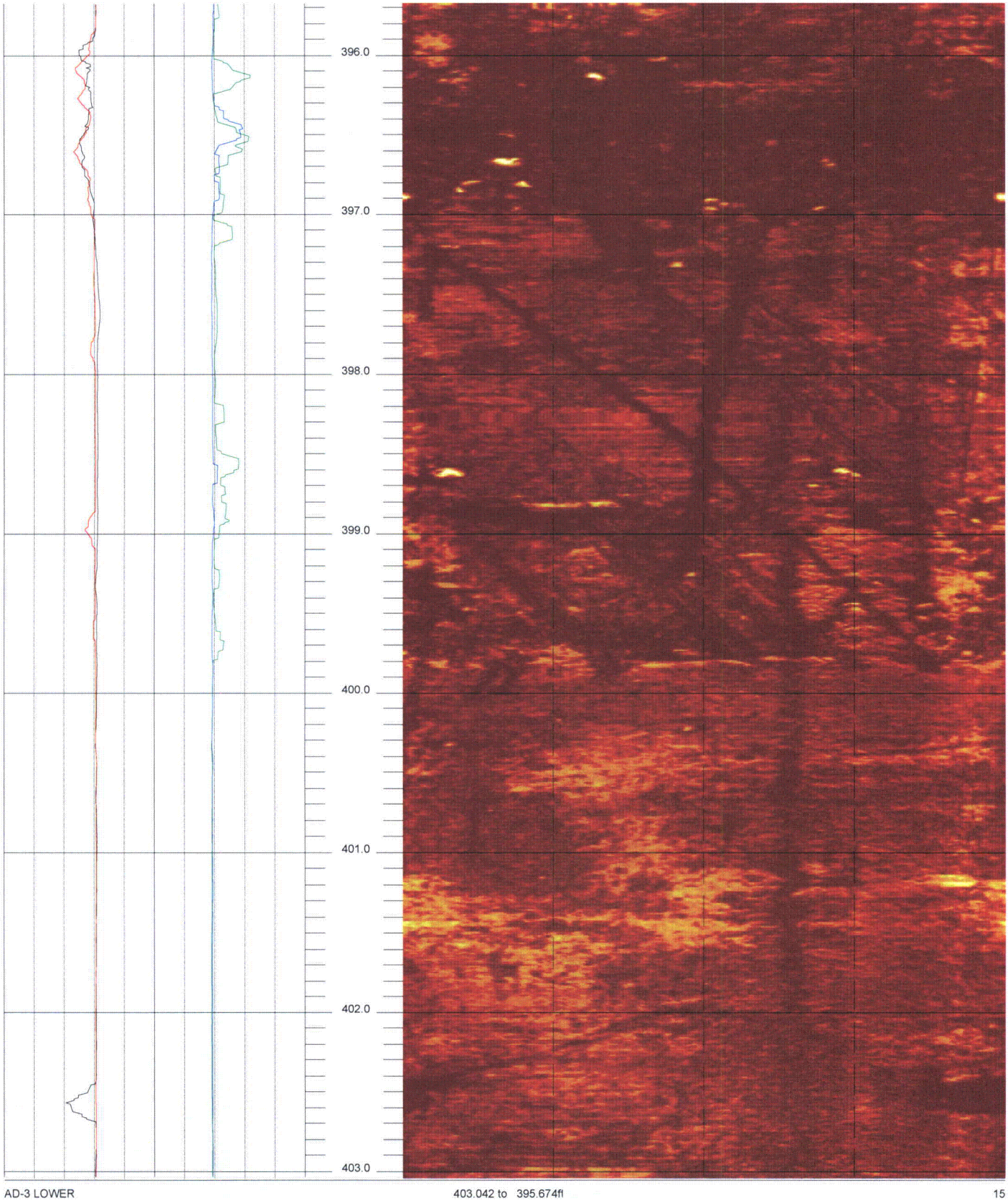
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 12 of 28



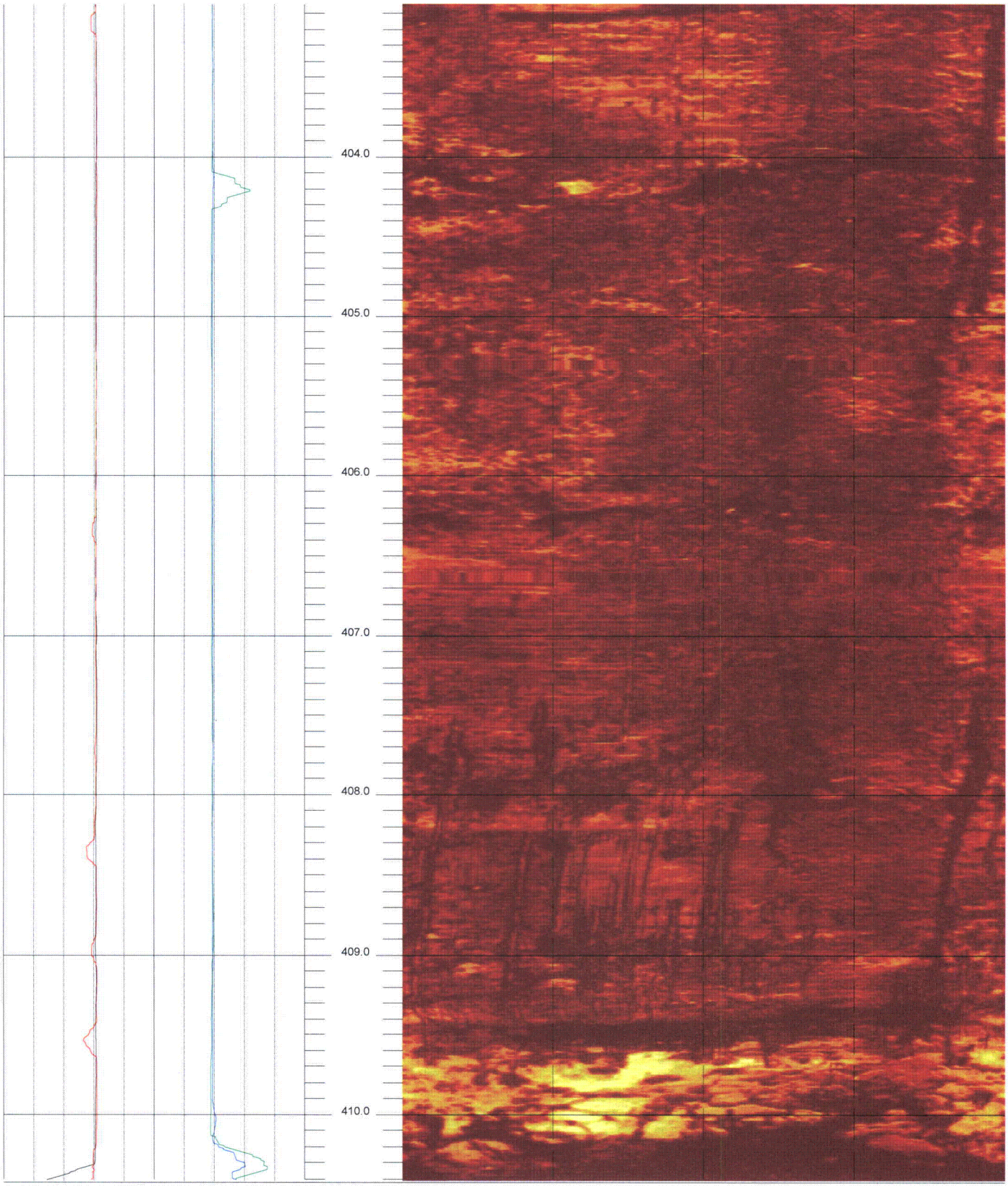
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 13 of 28



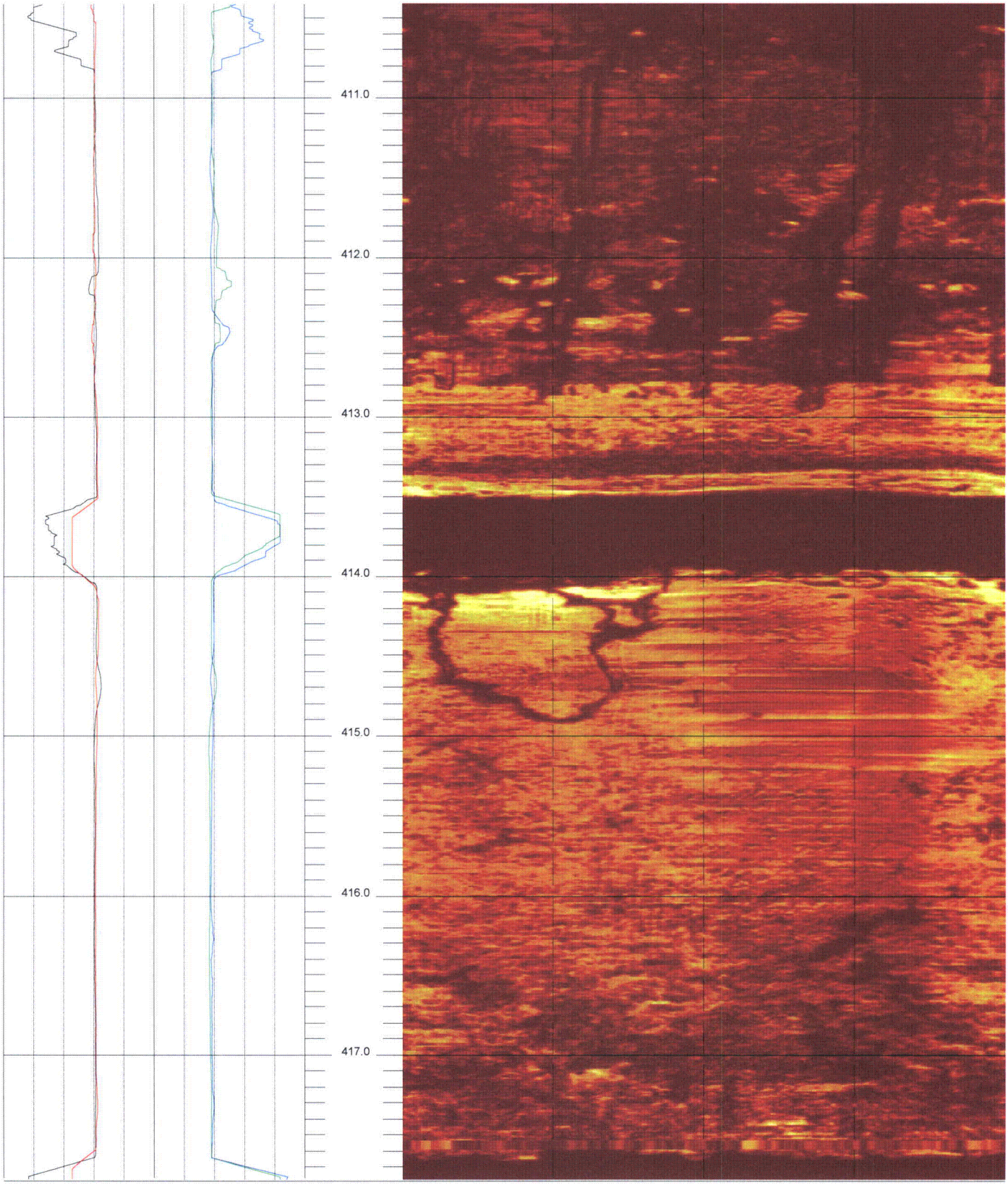
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 14 of 28



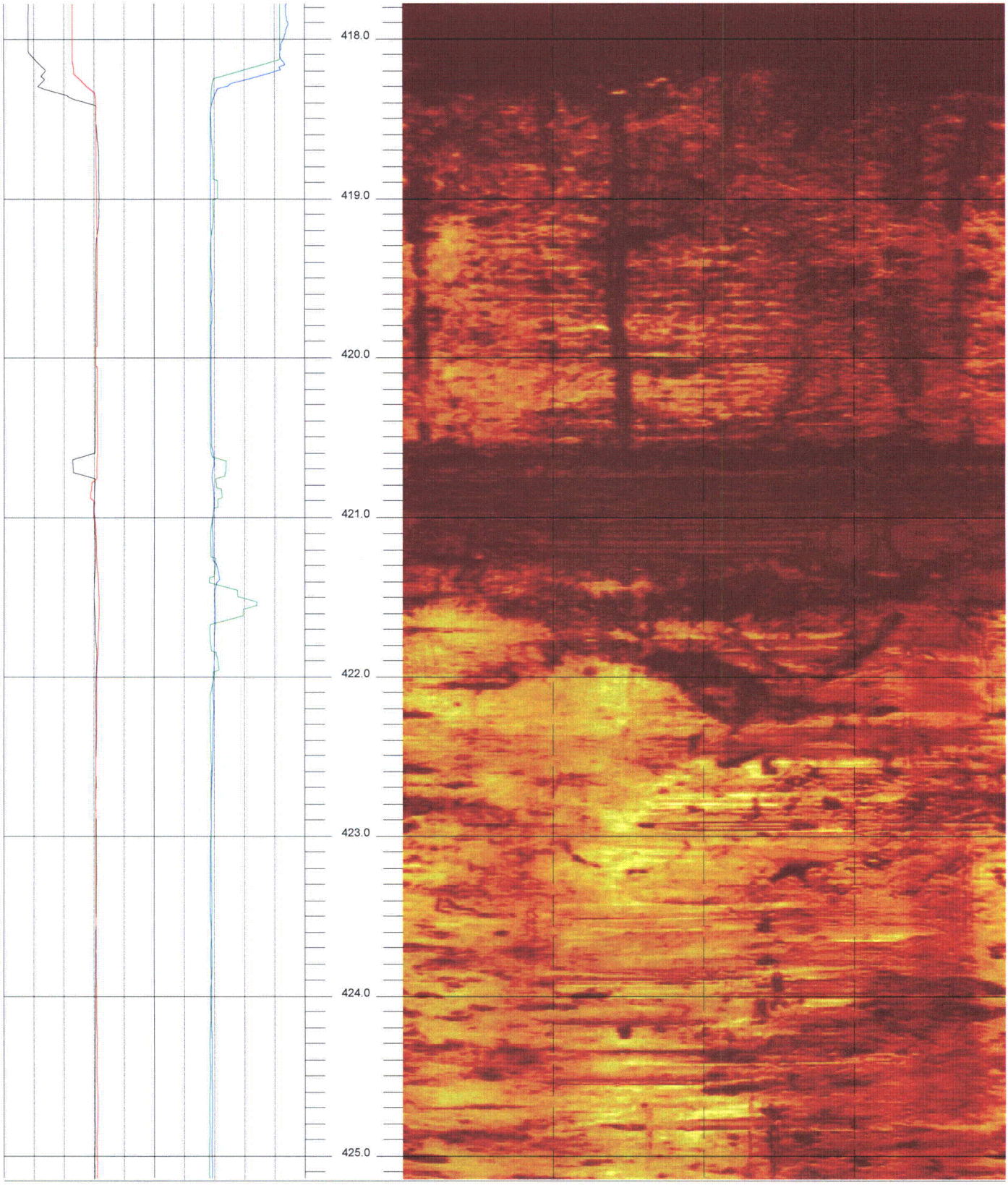
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 15 of 28



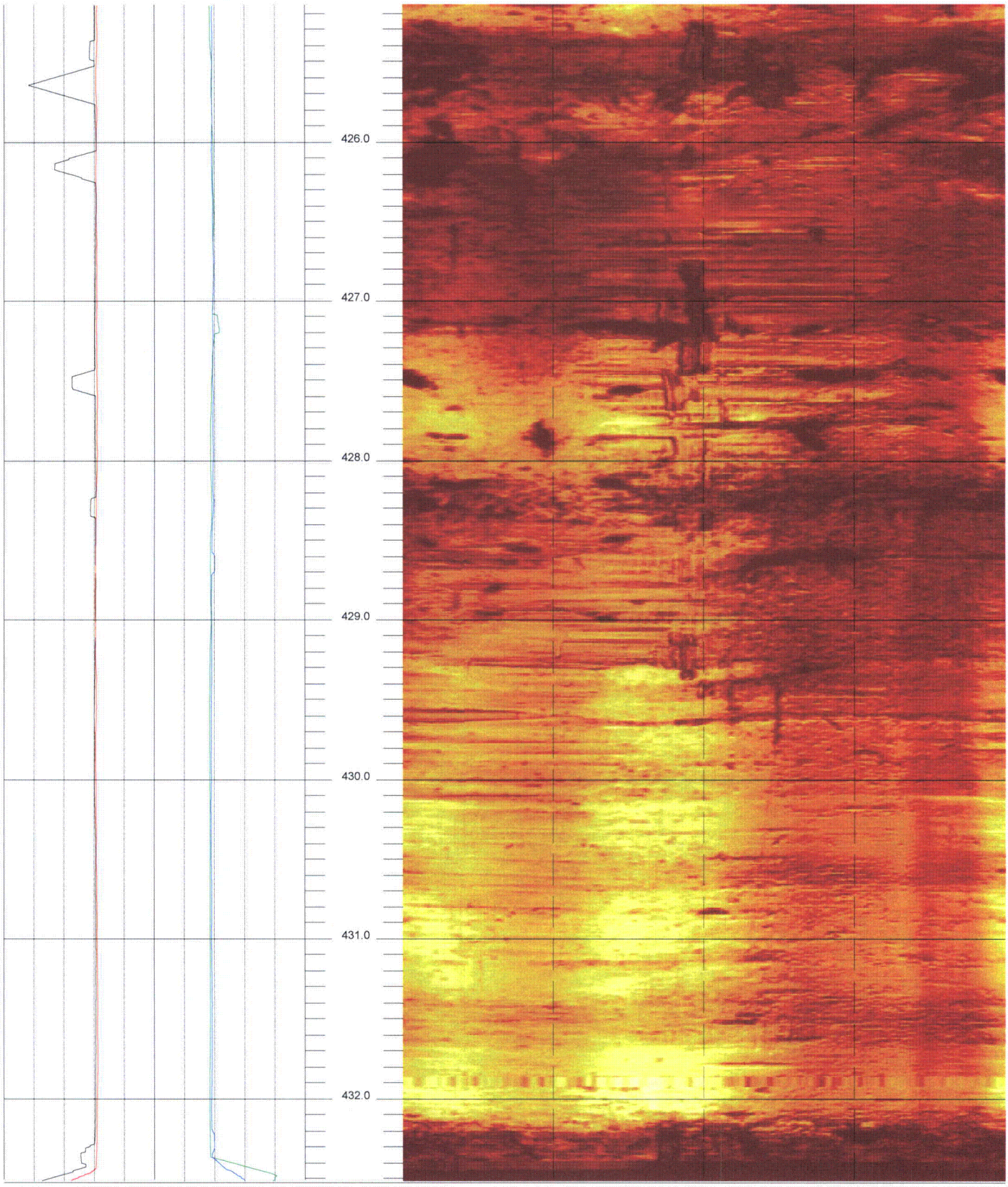
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 16 of 28



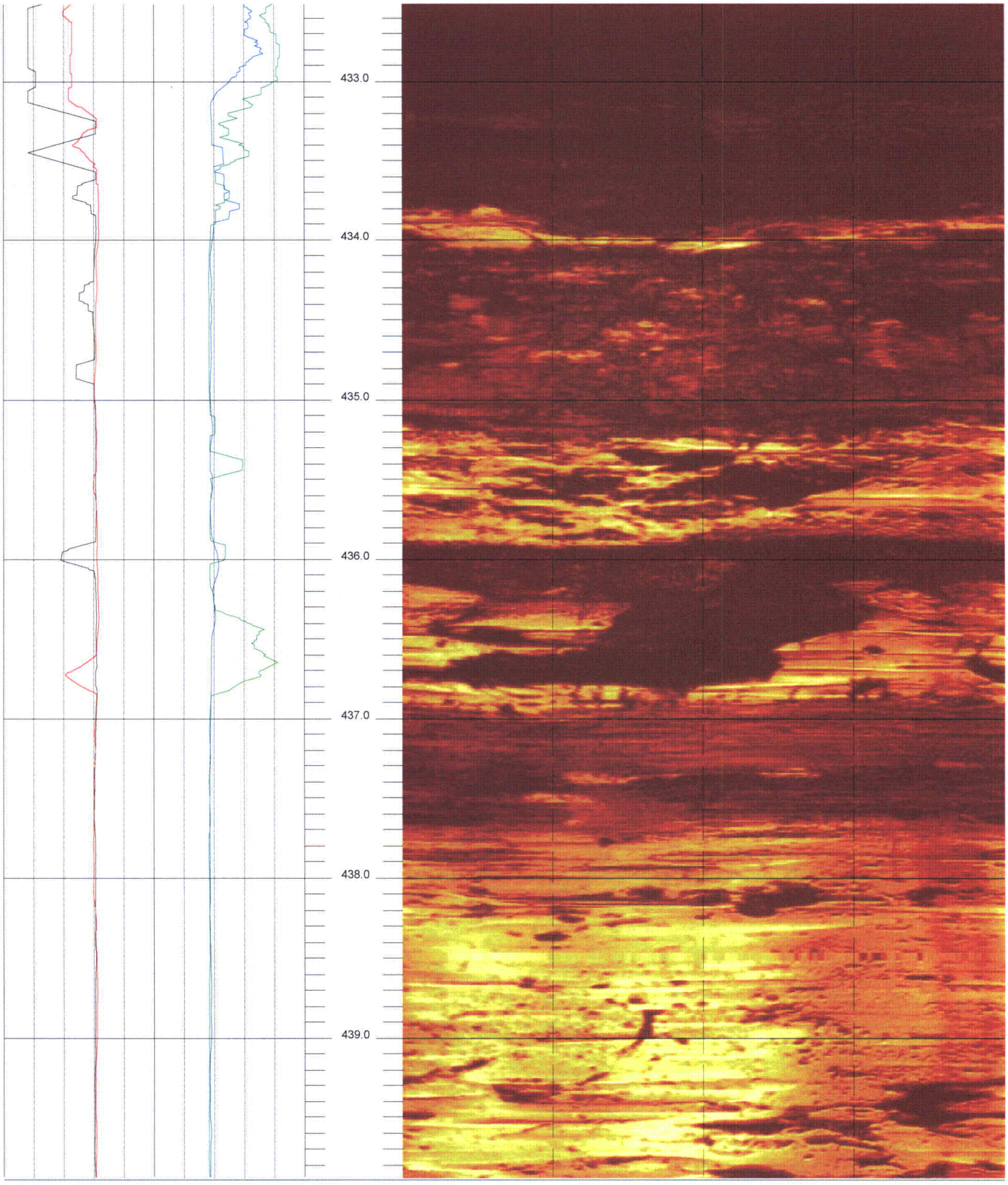
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 17 of 28



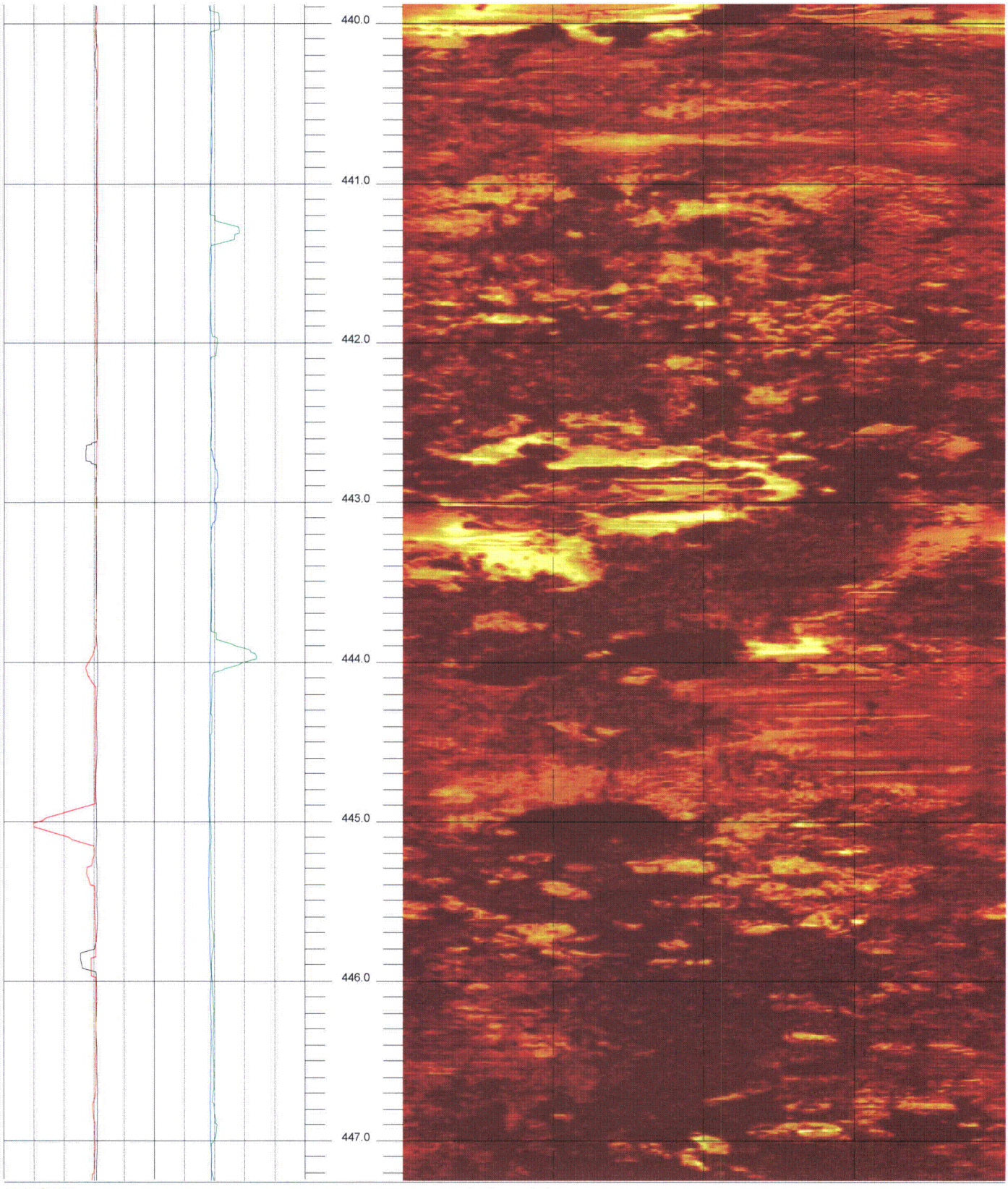
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 18 of 28



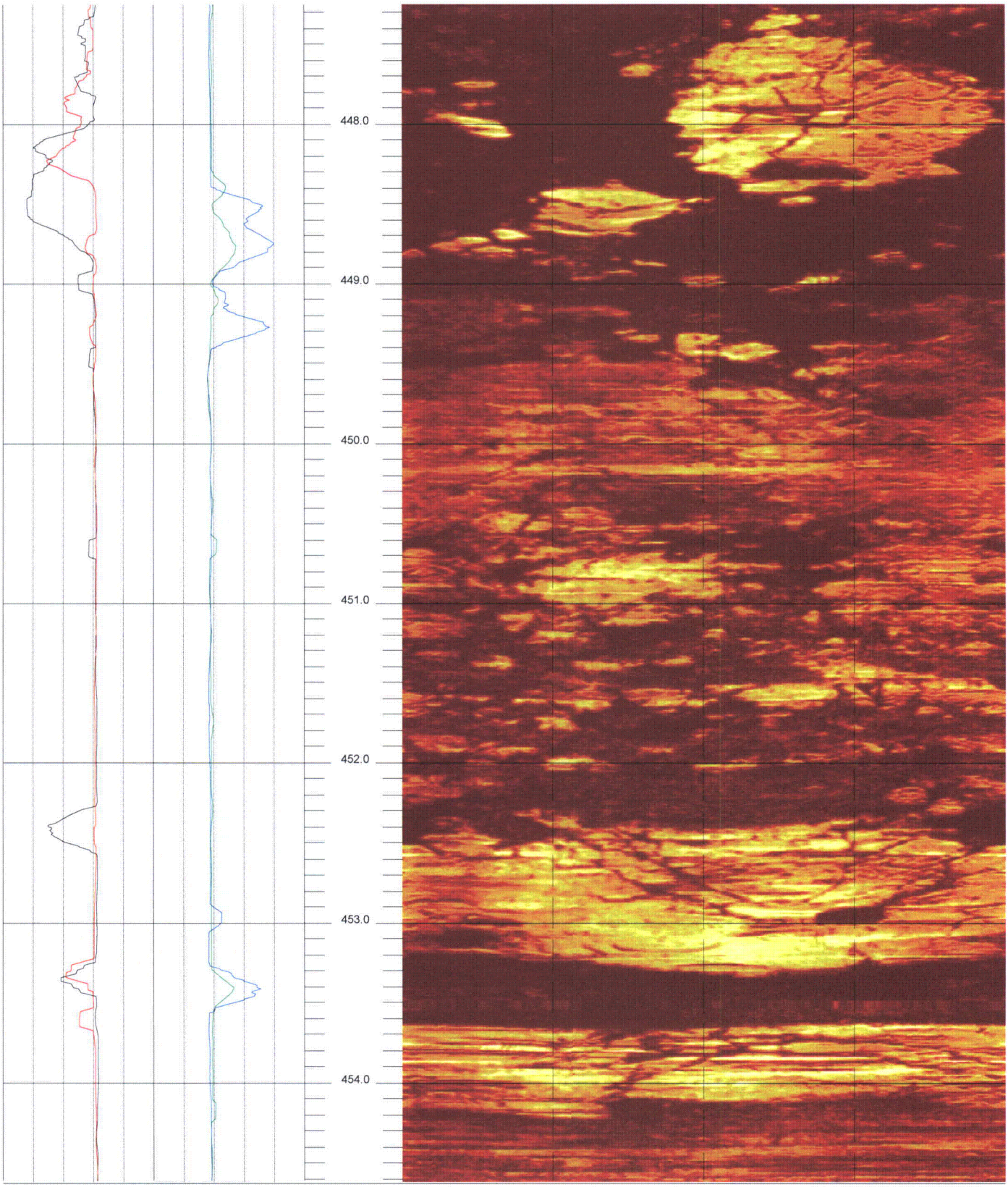
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 19 of 28



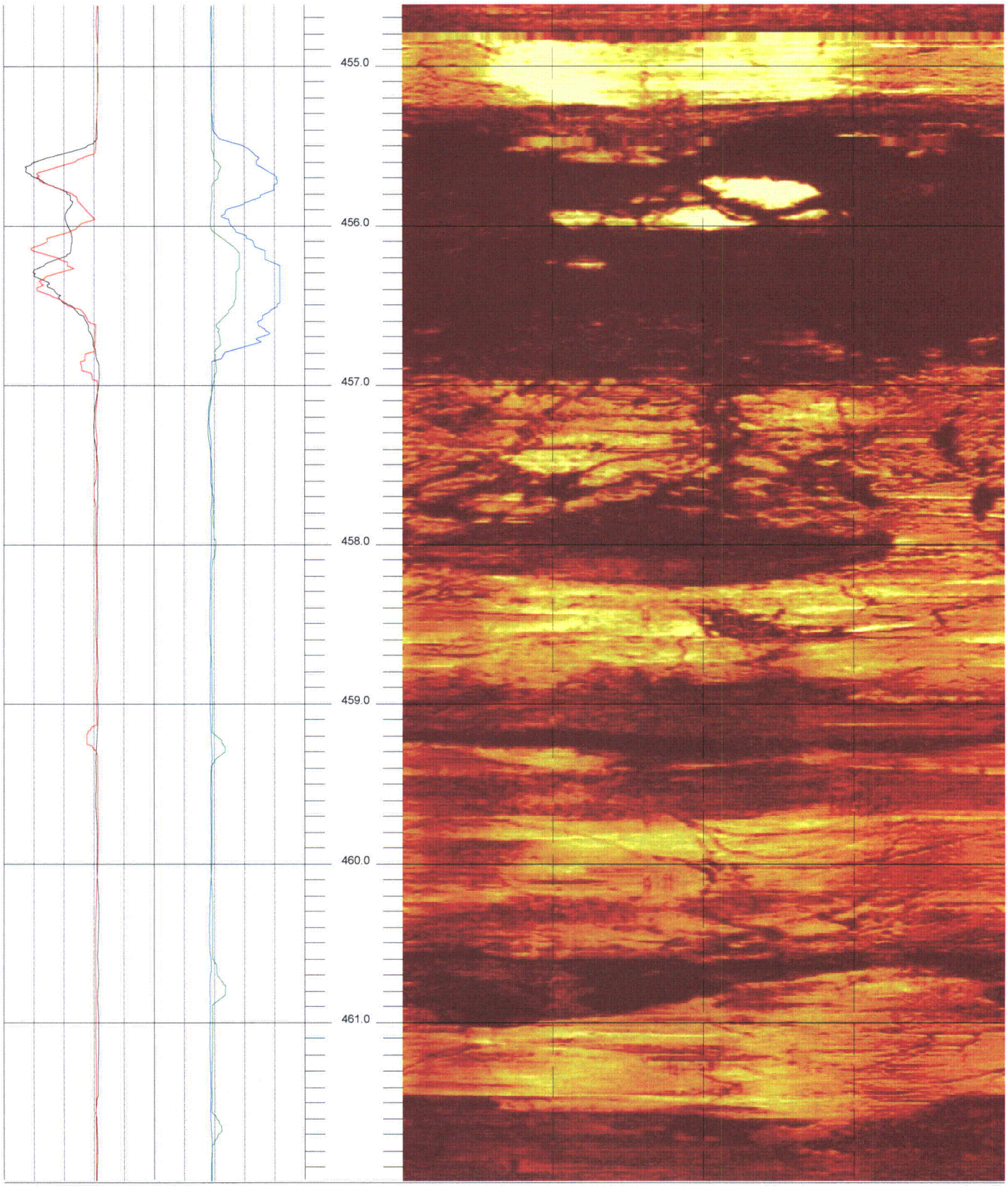
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 20 of 28



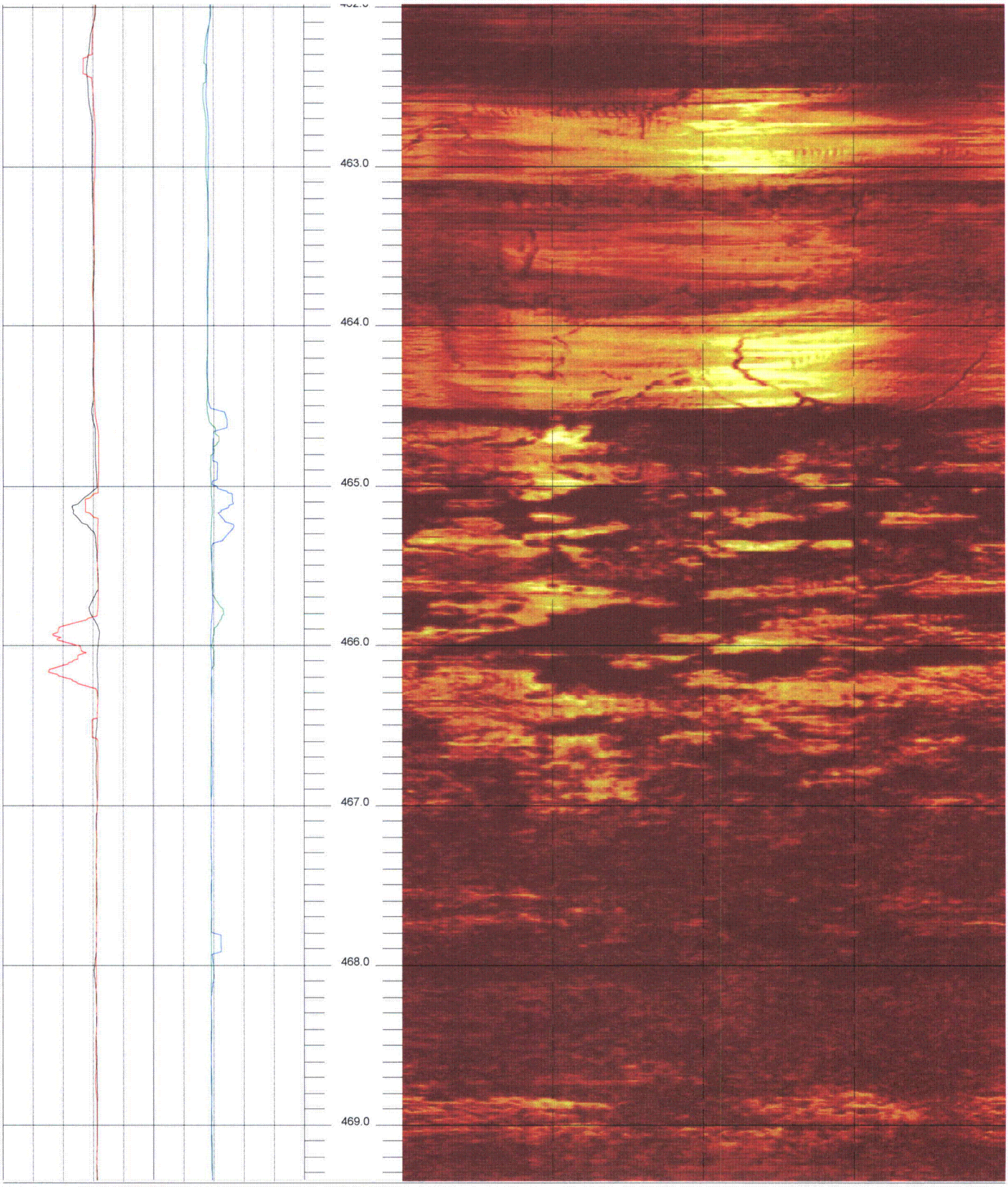
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 21 of 28



PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 22 of 28

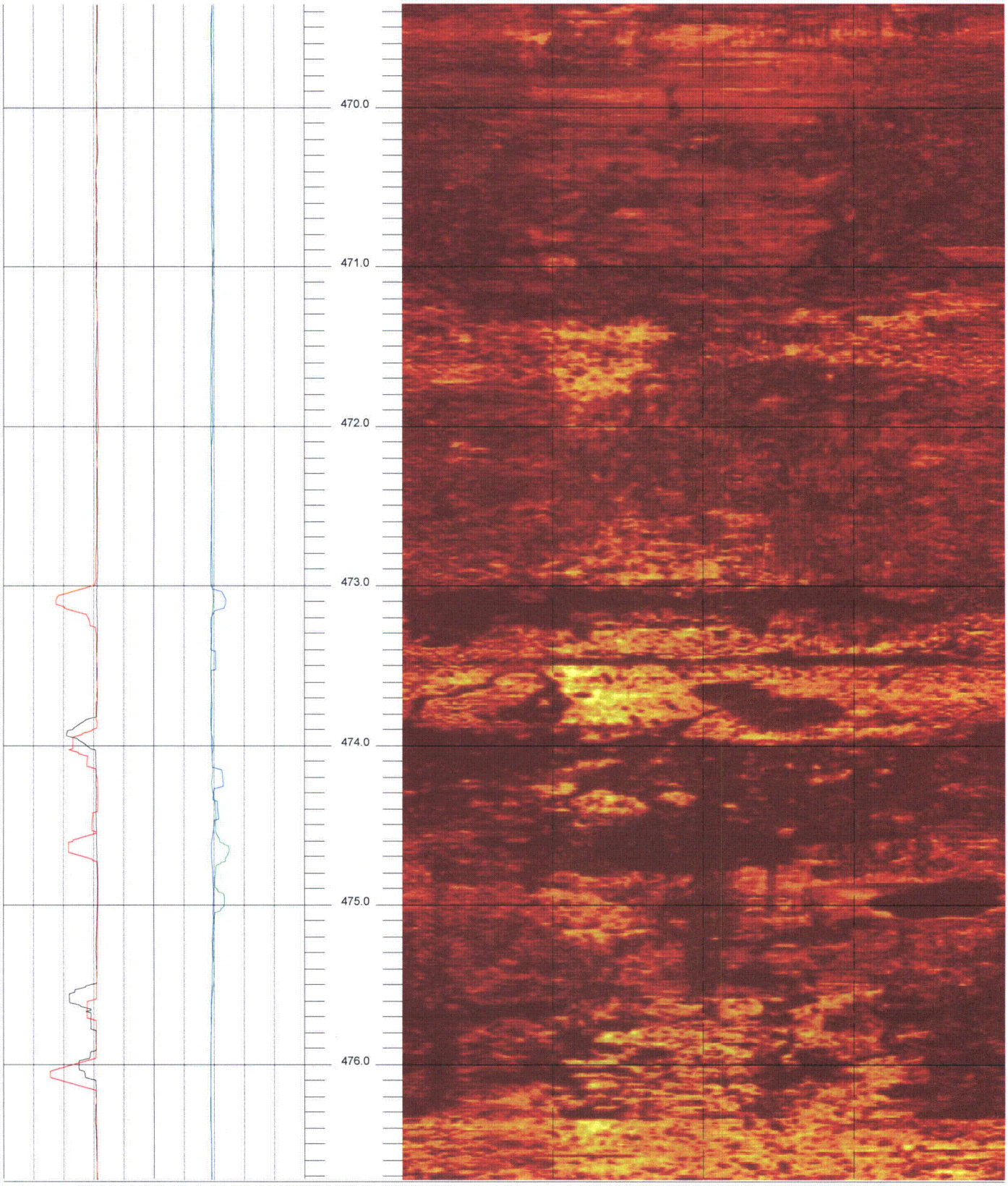


PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 23 of 28

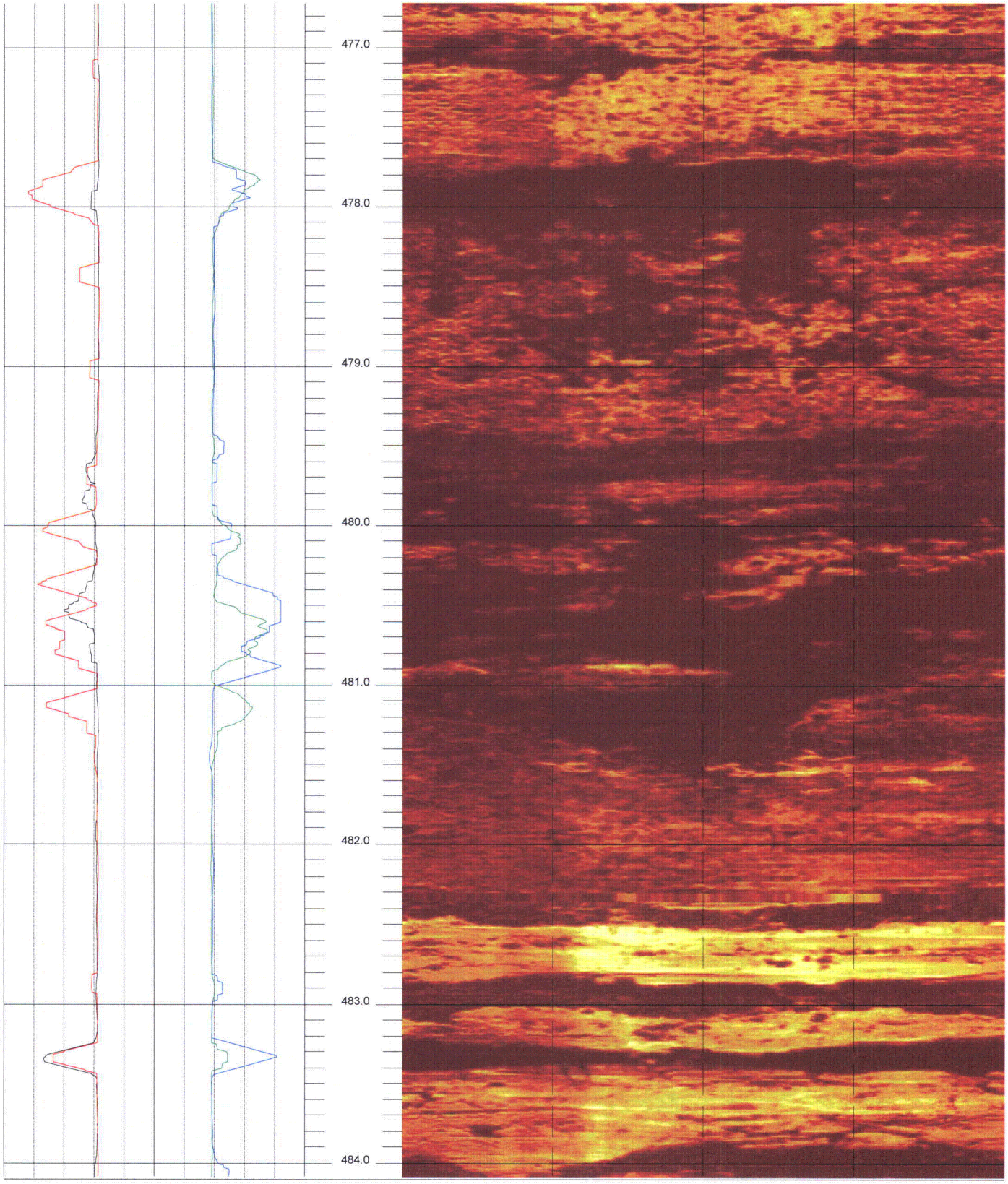


AD-3 LOWER 469.354 to 461.986ft 24

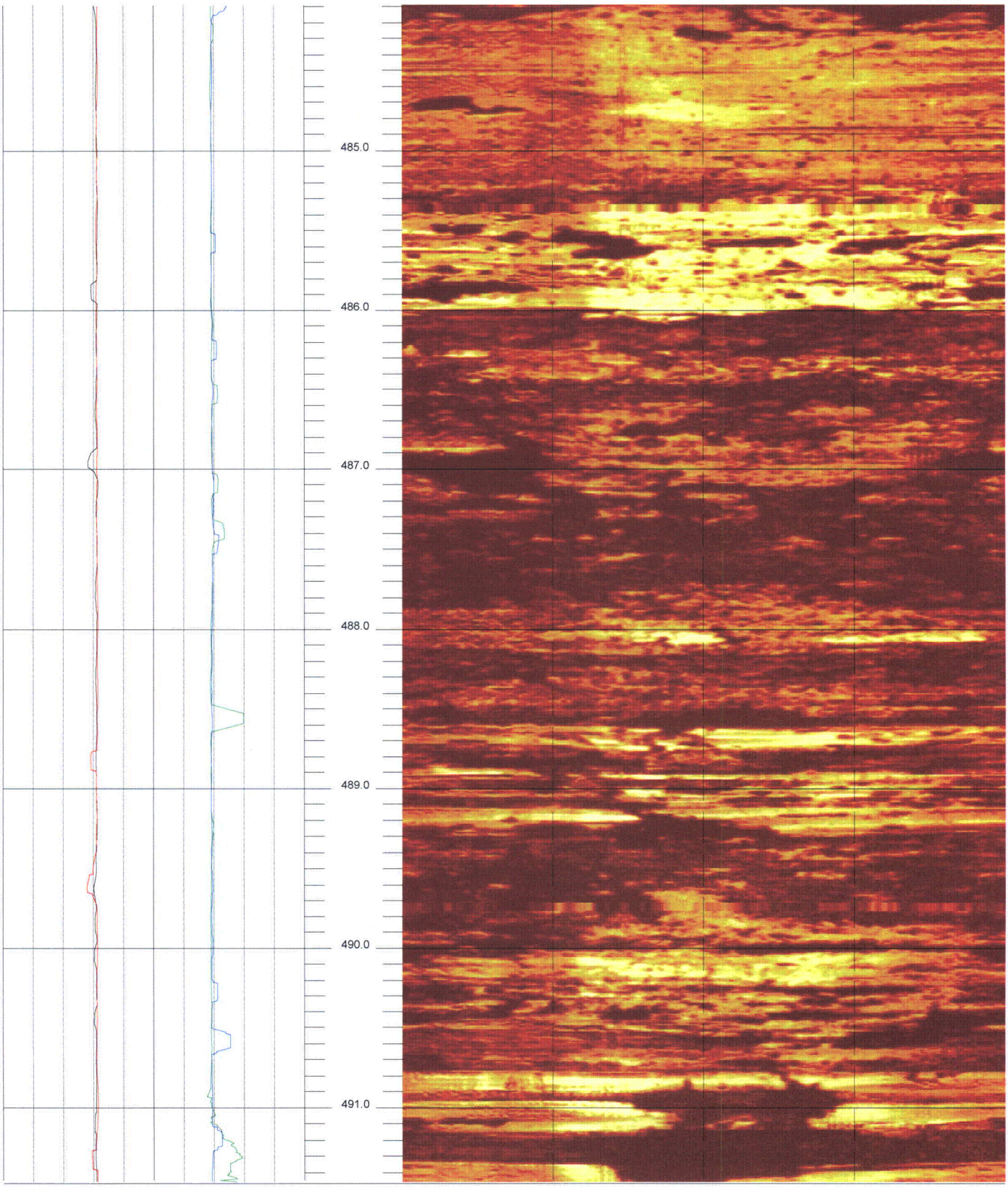
PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 24 of 28



PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 25 of 28



PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 26 of 28



PEF-LNP COLA Boring AD-3 lower section Acoustic Televiewer based Caliper rev 1 Sheet 27 of 28