Tap Oil T/47P 3D PSTM

Second Pass Radon Test

Processing Flow

- Reformat
- Navigation merge
- Trace edit
- Low cut filter 3Hz 18dB
- Deterministic de-phase filter to convert data to zero phase using far field signature
- Resample to 4ms using AA filter 110Hz 96dB
- System delay correction
- Spherical divergence correction V*V*T using regional velocity
- Swell noise attenuation, threshold 2.25 and despiking; threshold 2.0
- Linear noise attenuation, Velocity -2500m/s to 2500m/s
- Tidal static correction
- Tau-P de-convolution, operator length 280 and gap 24ms
- First pass velocity analysis on 1km x 1km grid

Processing Flow continued..

- NMO with QC'ed velocity
- Alternate trace drop with K – filter
- Interpolate one trace in cdp domain
- High resolution radon demultiple
- Remove the interpolated trace
- Channel Scaling
- Post radon despiking
- Post radon linear noise attenuation
- 3D binning 12.5 X 25 m grid
- Ralft3D
- Target line migration
- Velocity analysis on 1km x 1km grid
- Reverse NMO
- Remove spherical divergence
- Final migration
- Residual velocity analysis on 0.5 km X 0.5 km grid
- NMO correction with residual velocity
- Second pass radon test

CGGVERITAS

Test Summary

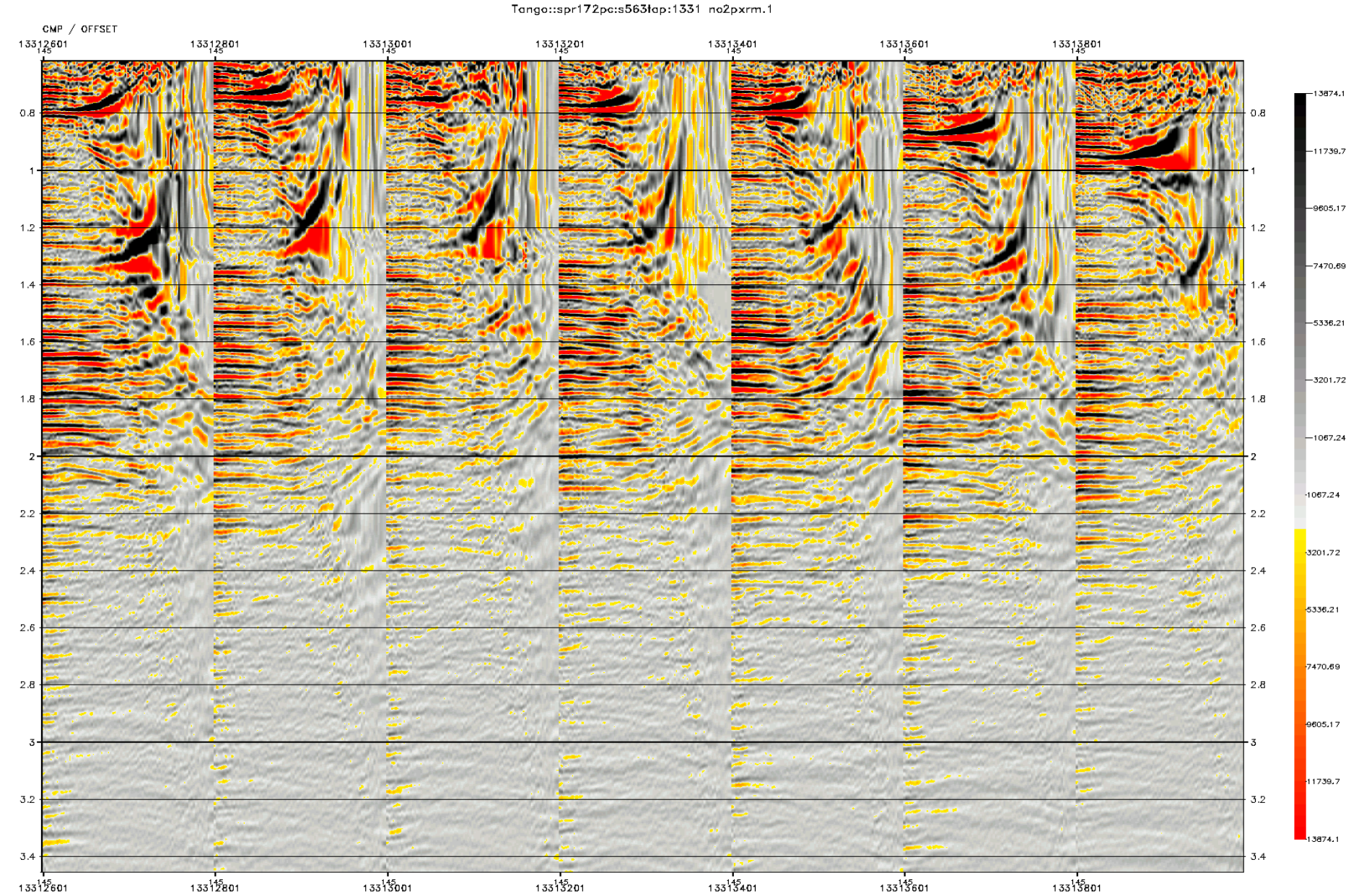
- The test is conducted on processing inline1331.
- Radon parameters:
  - Transform range: -1000 to 4000
  - Frequency range: 5 to 90 Hz
  - Time variant protection range tested:

Time	Test 1	Test 2	Test 3
0	500	500	500
1000	340	280	220
2000	260	200	160
3000	160	100	80

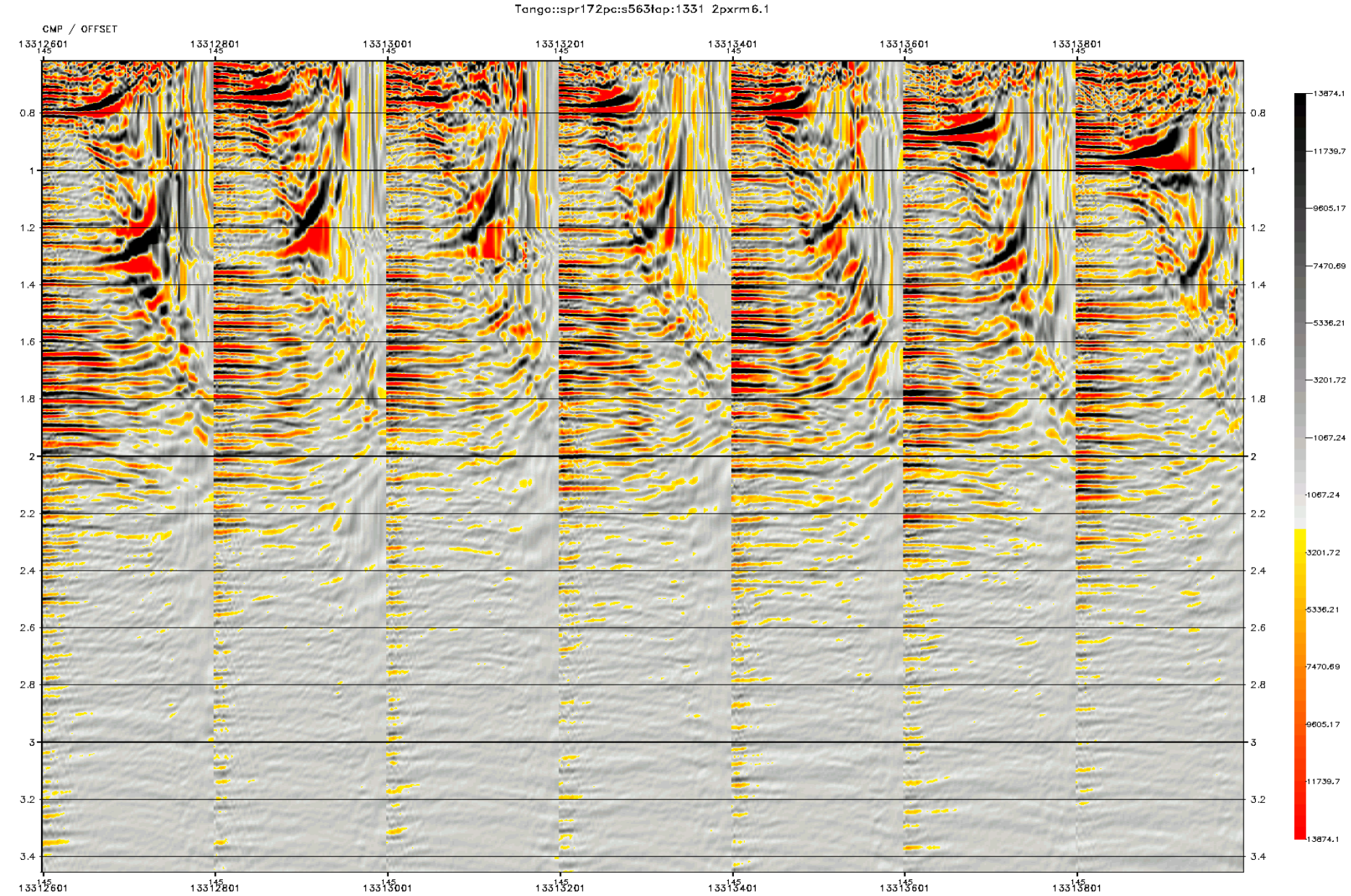
  - Start time: No demult applied from 0 to 700ms
    Demult ramped from 700 to 1000ms

CGGVERITAS

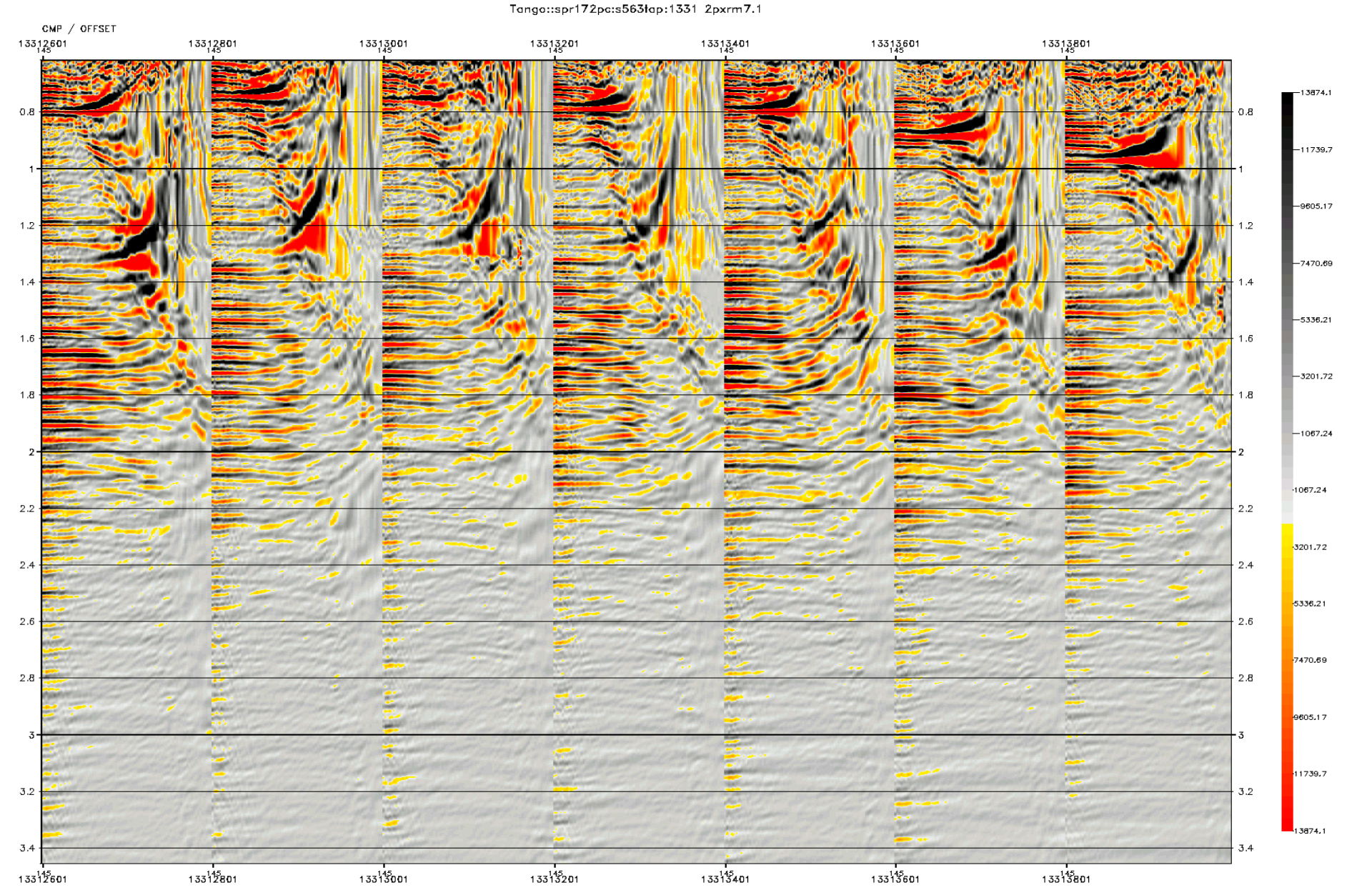
Gathers without radon



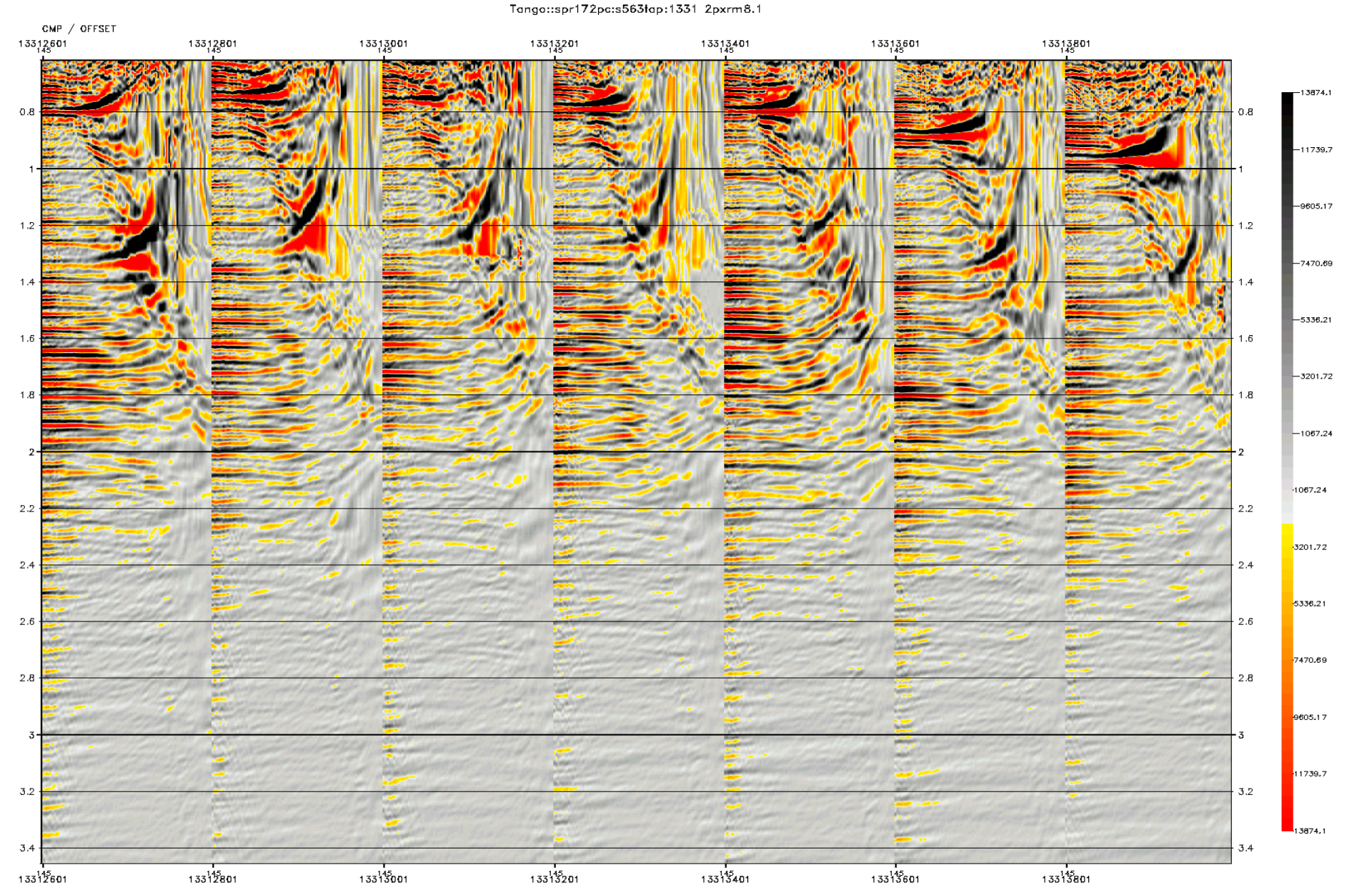
Gathers with radon – Test 1



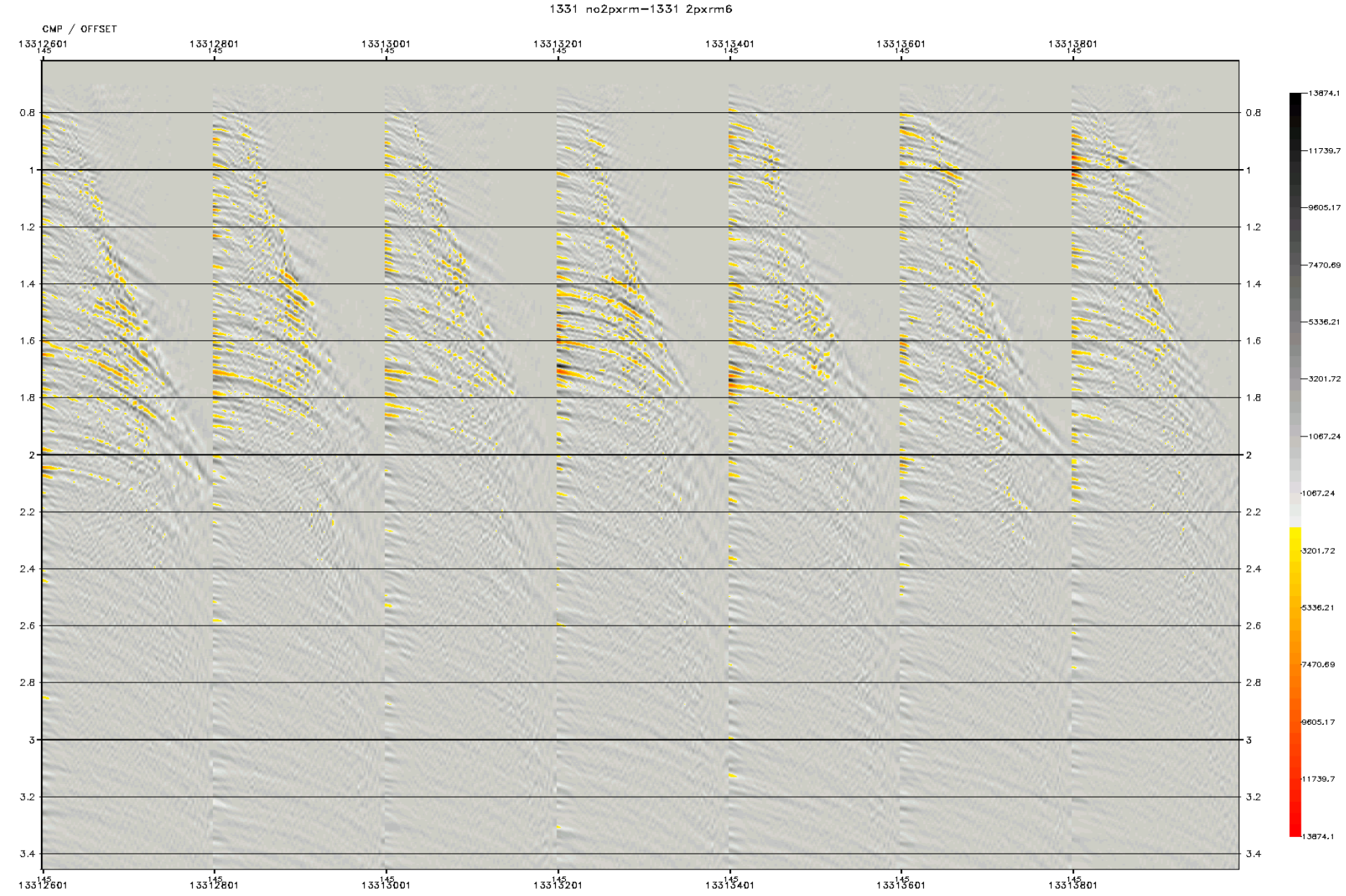
Gathers with radon – Test 2



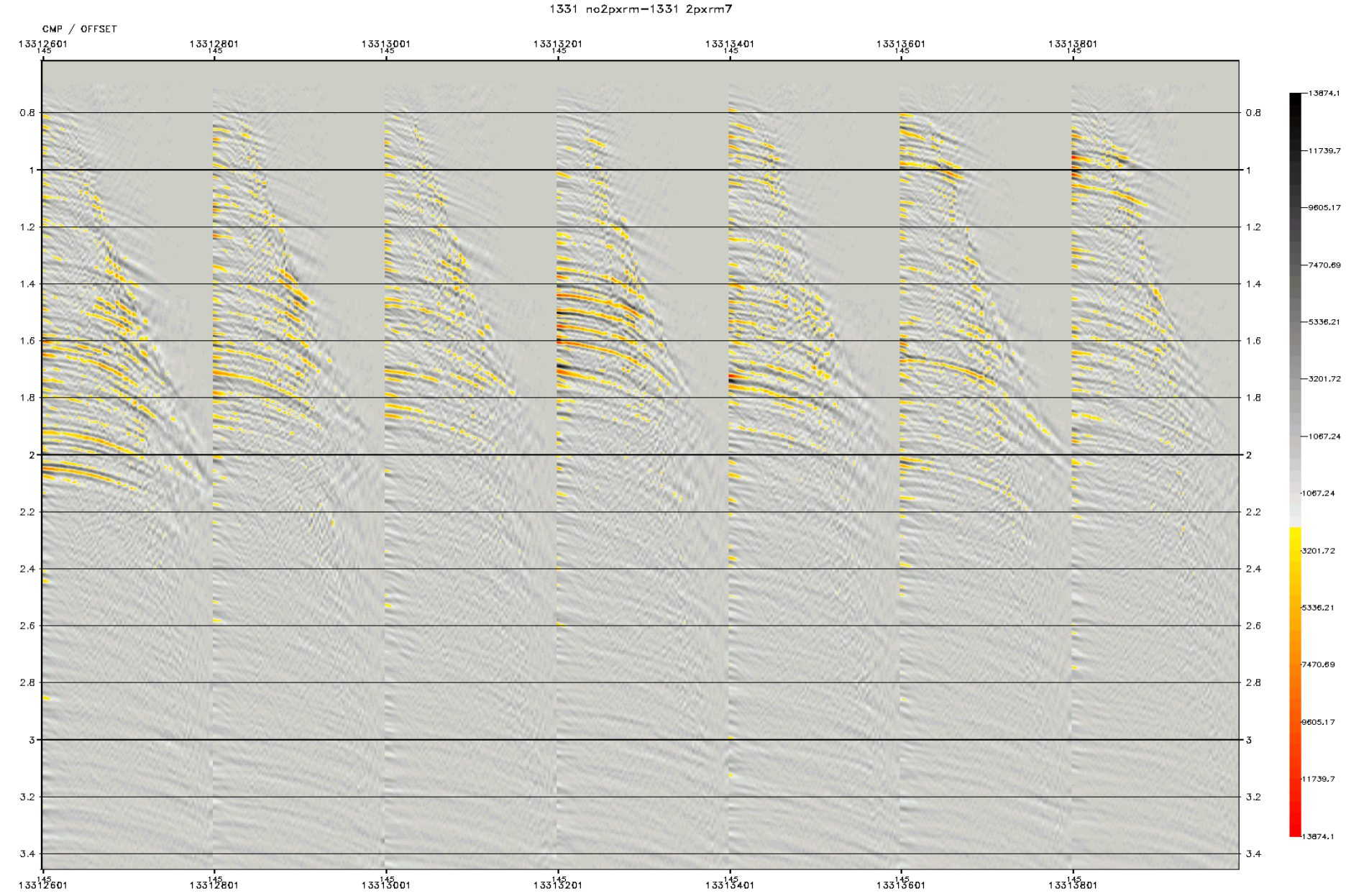
Gathers with radon – Test 3



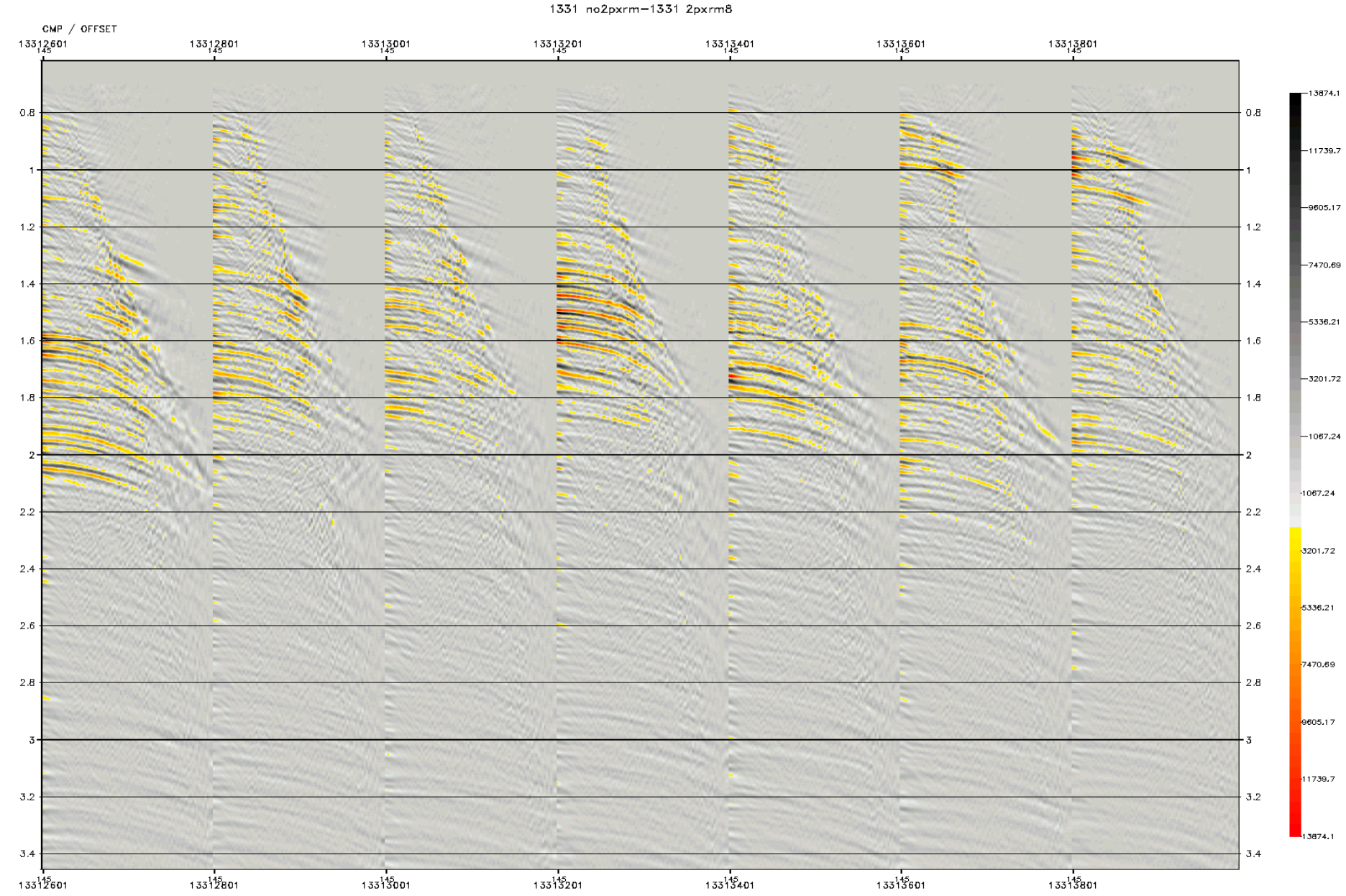
Difference display – Test 1



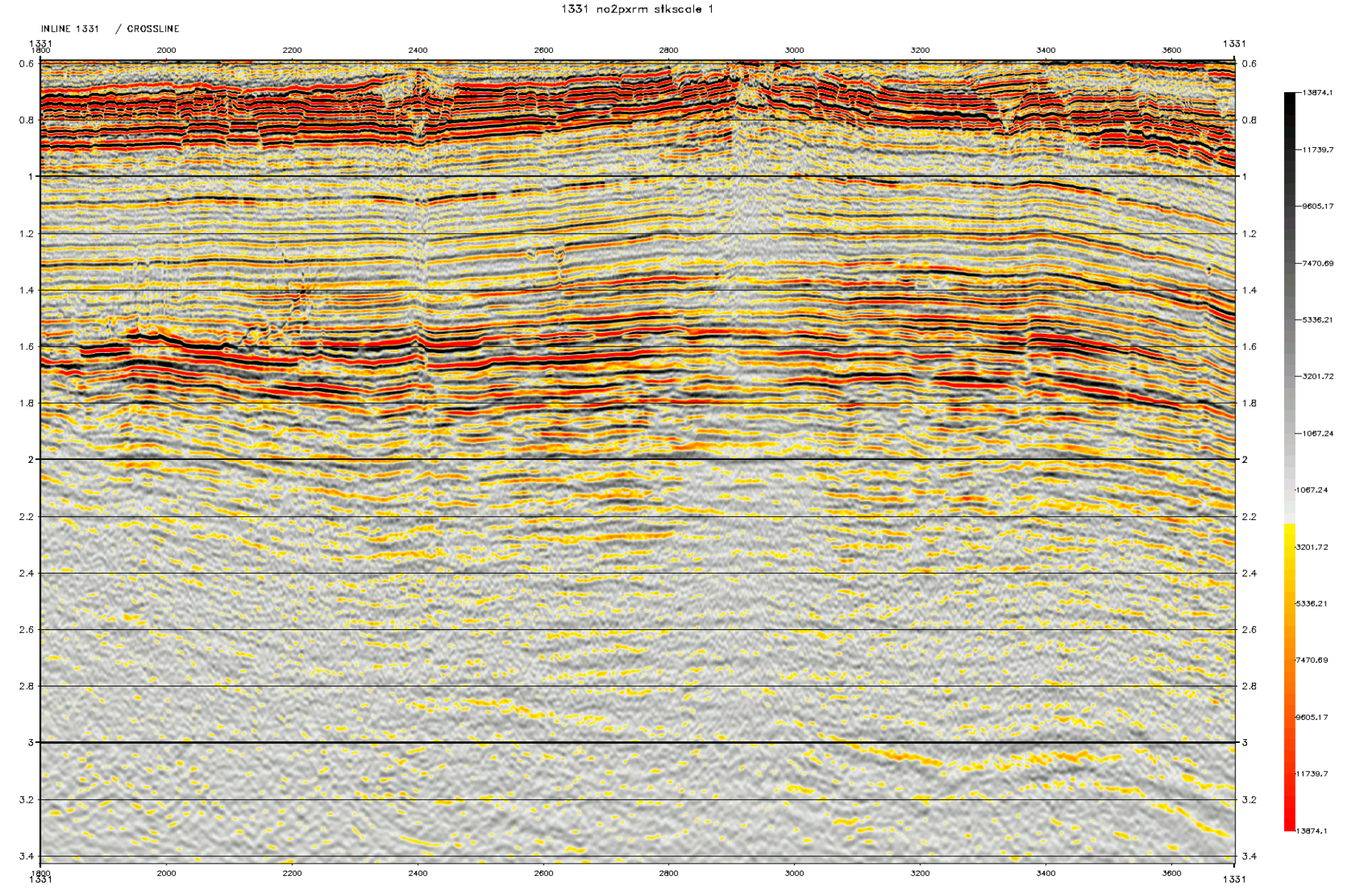
Difference display – Test 2



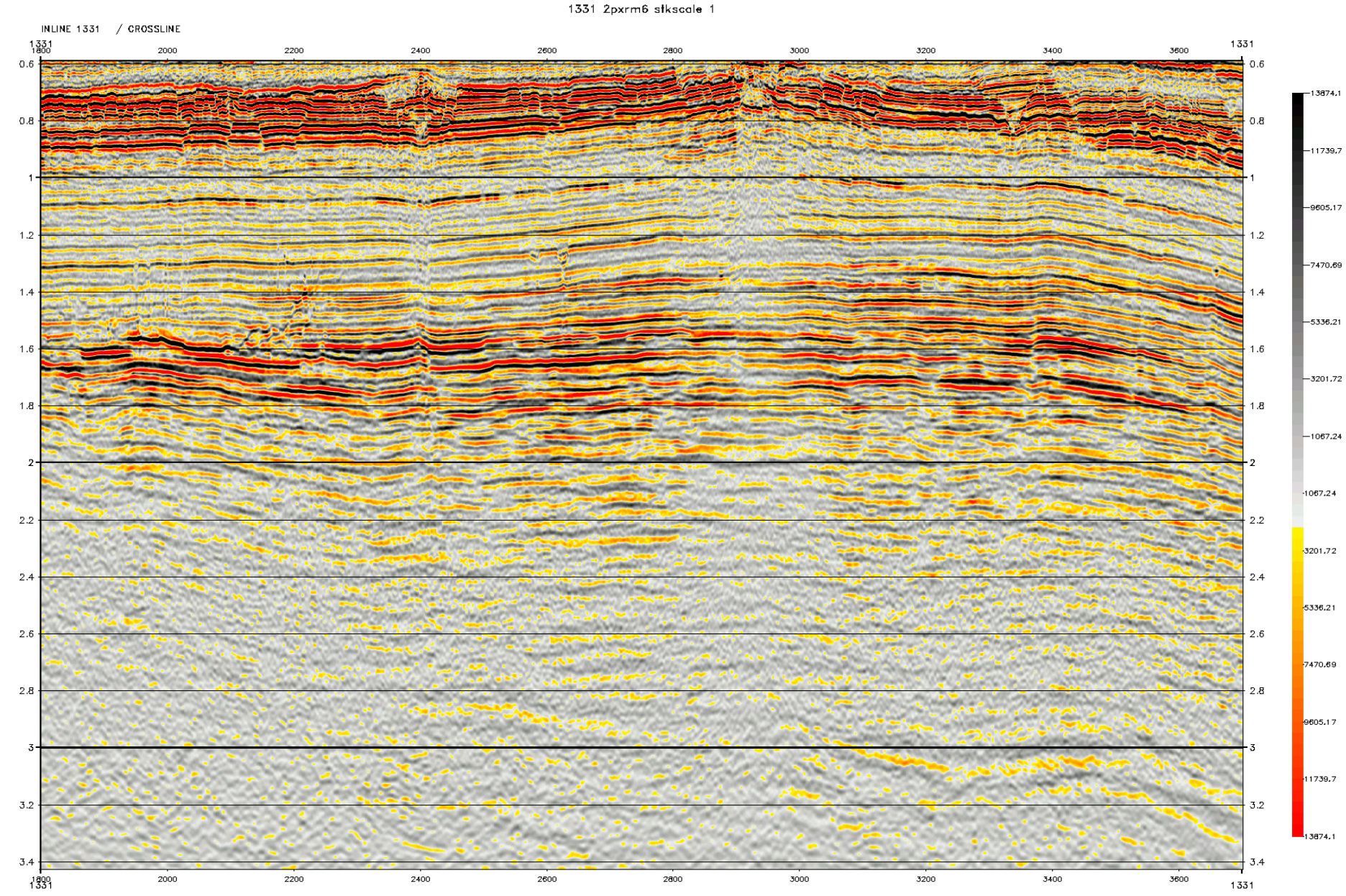
Difference display – Test 3



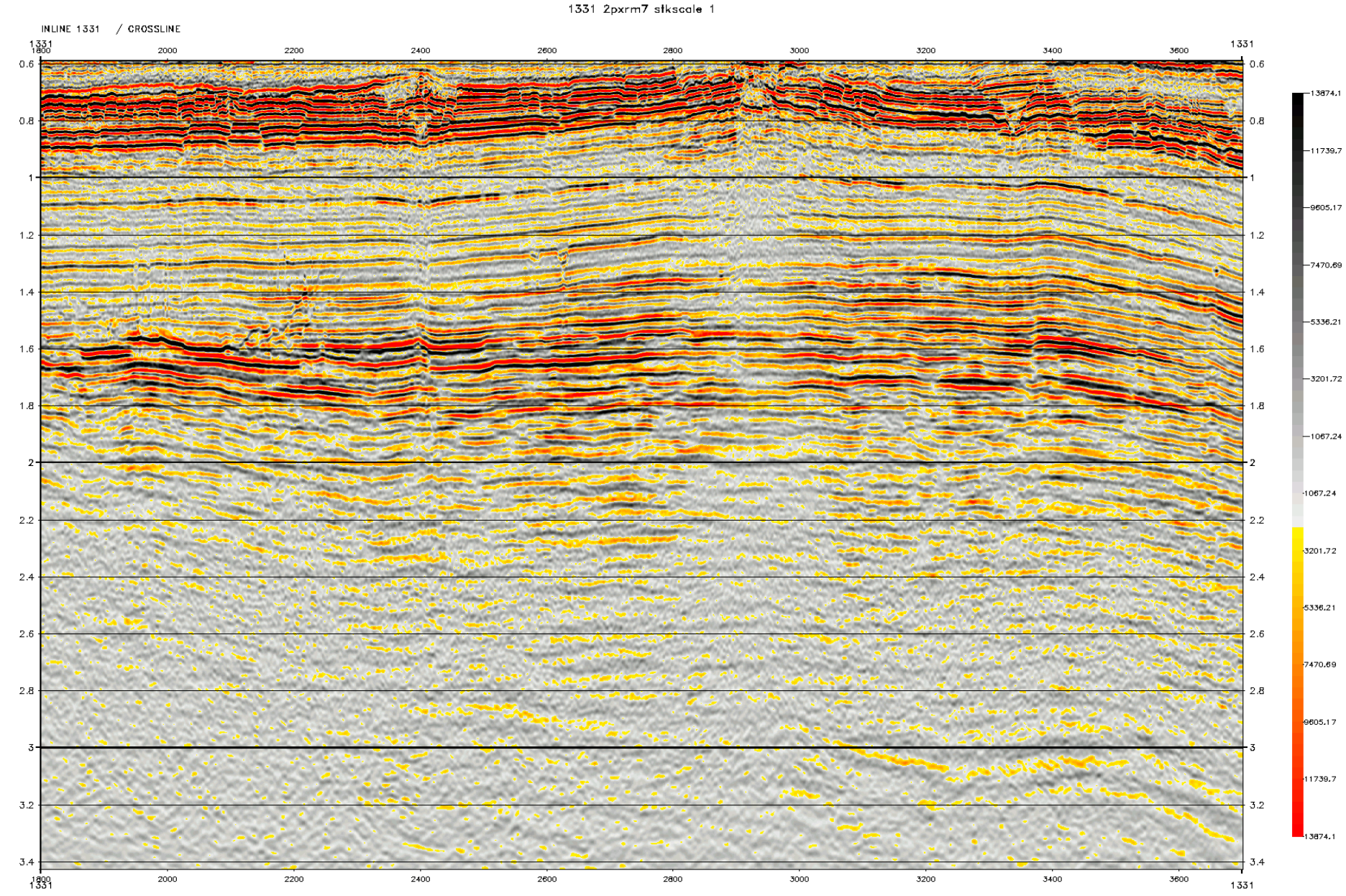
Stack without radon



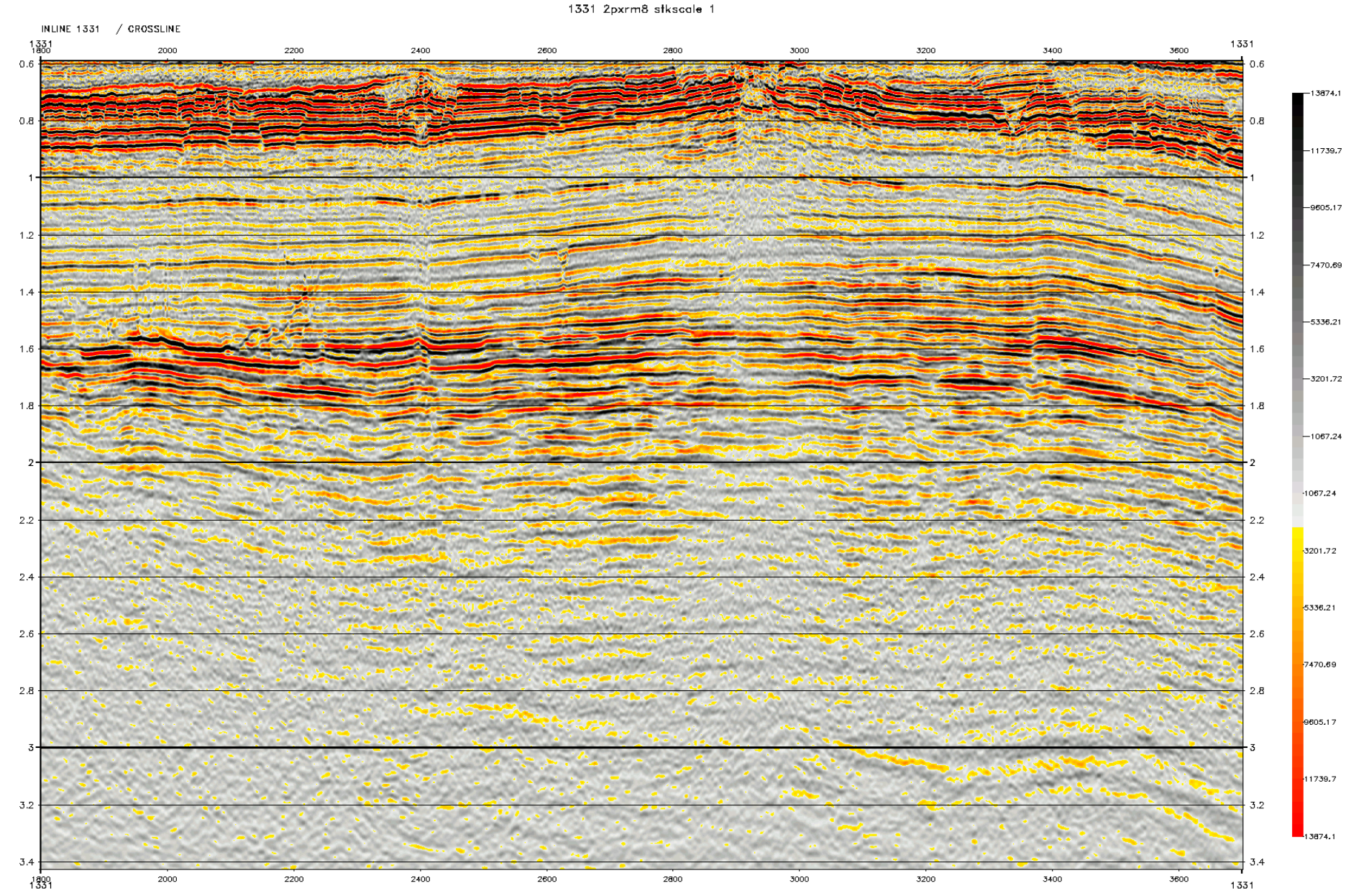
Stack with radon – Test 1



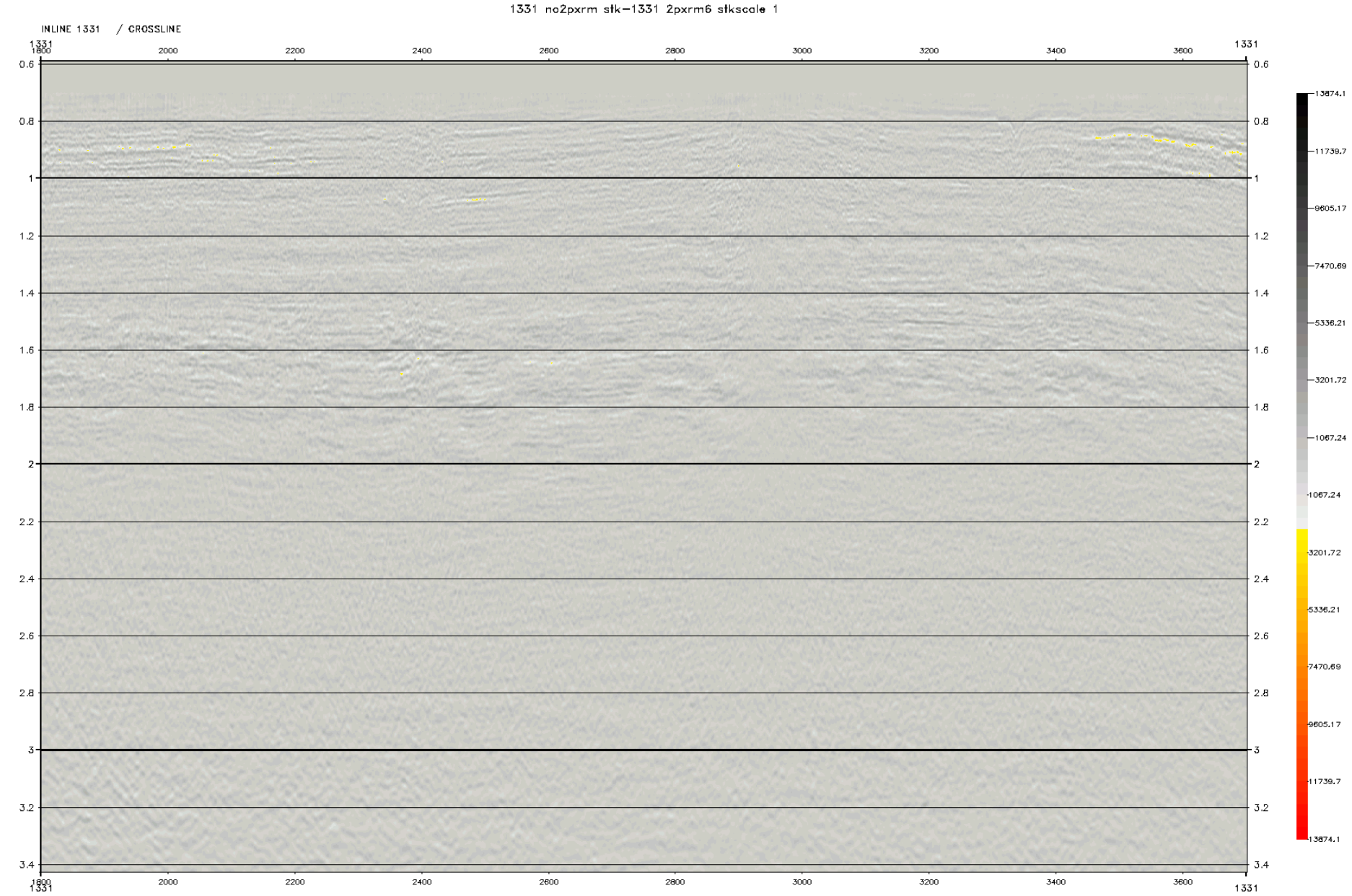
Stack with radon – Test 2



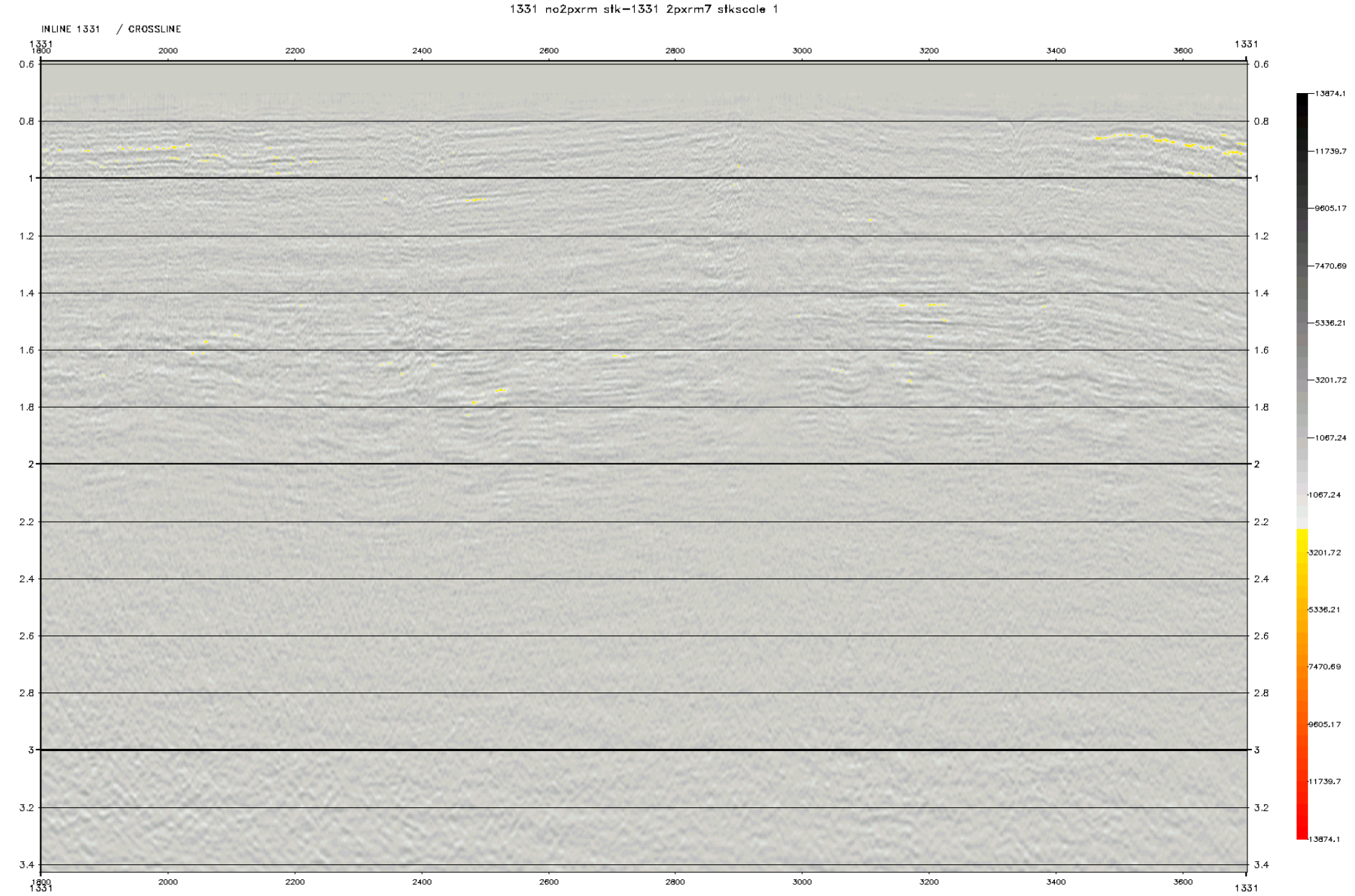
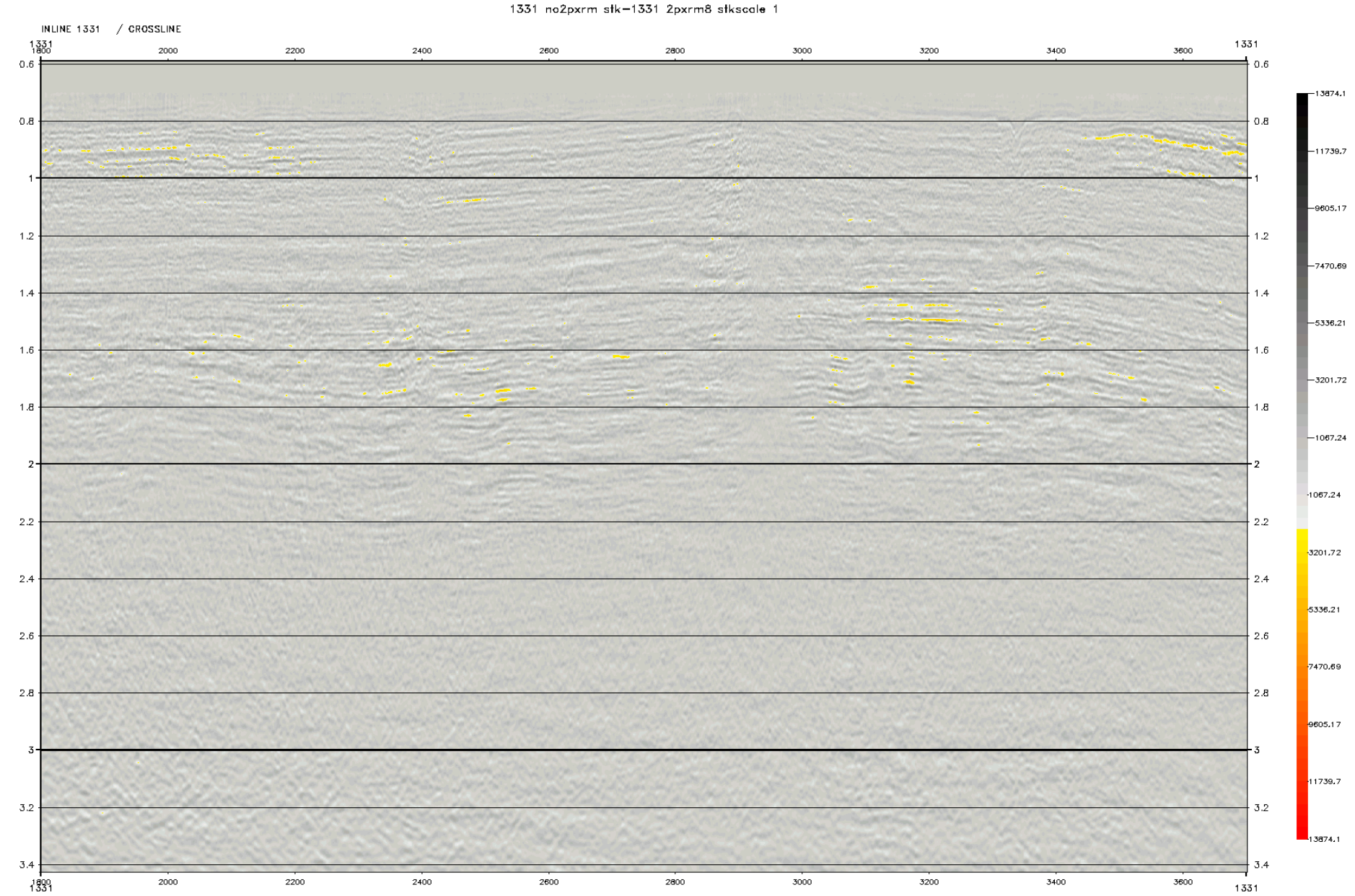
Stack with radon – Test 3



Difference display – Test 1



Difference display – Test 2



Difference display – Test 3