

RESOLUTION OF SEISMIC INTERPRETATION ANOMALIES THROUGH THE SPECTRAL RATIO TIME DEPENDENT METHOD.

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Abstract:

Interpretation of seismic results from a complex geological formation can be very difficult both on-field and off-field. The spectra ratio (SR) time-dependent method was derived using established geological principles. The spectral amplitude was analyzed numerically to affirm the reliability of the method on field operations. It was observed that the SR time-dependent method could initiate a natural correction to the attenuated seismic amplitude at each given interval during a seismic operation. The multi-layer implementation of the adopted method showed great success with the most accurate result at $n = 0.1$ for the fourth term on a newly-propounded volumetric table. Most volumetric results from the Niger- Delta showed correspondence with the volumetric analysis of the fourth term. One of the on-field volumetric results was obtained in the third term. The derivation of the volumetric table is to further enhance more accurate exploration using the reflective seismic technique.

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