

Technical lecture organized by SPG, Chennai chapter on 08.04.2011

As a part of its Technical Forum, SPG, Chennai chapter organized its 2nd lecture on “Precision statics – its application & efficacy in sub-surface mapping” . The lecture was delivered by Sri. A.K. Srivastava, SG(S), ONGC, Chennai on 08.04.2011.

Static corrections play an important role in the seismic data processing for precise mapping of sub-surface image. In fold belt areas, the weathered layer as well as sub weathered layer velocity vary appreciably, in horizontal as well as vertical directions. In such case the conventional approach in computation of static corrections may not give desired results. The presenter came out with a methodology which involves the stage wise computation of precision static corrections.

The precision statics correction method envisages stage wise computation of static correction with quality check at each stage. The static corrections computed by this method is applied to upward continue the data to a flat datum above the highest topography. This methodology was applied on 2D seismic data of fold belt areas in Indian basins, particularly in Mizoram, Badarpur, Gojalia & Himalayan foothills. The image obtained after flooding the datum exhibits better reflector continuity and more accurately represents the true structural image.

The Basin Manager- Cauvery Basin who was present at the lecture, actively took part in the interactive session that followed the lecture and other members also shared valuable insights.







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