

## From the Editor's Desk



Dear Readers,

Editorial team has great pleasure to present the second issue of GEOHORIZONS for the year 2015. The current issue comprises nine technical papers which include topics from various fields of G&G exploration with special thrust on Unconventional Exploration in Indian Basin. Team is thankful to all the authors for their contribution and team members for their efforts made during publication for timely presenting this knowledge rich issue to G&G fraternity.

The first paper provides an overview of present scenario of unconventional exploration in Indian basins to give a glimpse of potential of Indian Basins along with the problems and possible industry solutions.

A paper on “Curvature attributes for identification of faults and fractures” by Mr B M Bhardwaj, et. al. deals with a case study from Padra field on identifying and predicting subtle faults and fractures which are near or below seismic resolution.

In the paper titled “Overview of Basement Exploration Techniques” by Mr. Lavendra Kumar, et. al., various exploration techniques for basement plays have been presented which are, broadly categorized into methods based on direct measurement, non-seismic methods and techniques based on seismic data.

In the paper titled “Assessment of Basin Centered Gas Prospectivity in the Tankari Low, Cambay Basin, India” by Ravi Mishra, et. al. a comprehensive analysis and integration of all the factors governing Basin centered gas accumulation has been carried out and based on which prospectivity has been evaluated.

Mr. N K Khatri, et.al. in their paper titled “ Analyzing lithology generated AVO anomaly in deep water well in Indian Basin” have dealt with the amplitude anomalies which are basically caused due to change in lithologies with case study from Mahanadi to minimize the uncertainty to locate new wells in such areas.

Mr. Vikash Tripathi, et. al. in their paper titled “Sub basalt imaging: A case study from Offshore India” have discussed a strategically designed effective processing work flow based on concurrent developments in seismic data processing techniques such as seismic data bandwidth broadening, accurate complex multiple removal and noise attenuation which resulted in significant improvement in data quality.

In paper titled “Exploring sub-basalt with EM constrained velocity model” by Krishna Kumar et.al. synthetic inversion study followed by a study using field data from the Faroe-Shetland basin has been presented and the improvements in the interpretability has been discussed.

In the paper titled “Interpretation of thin beds in spectral domain” S D Wagh et.al. have discussed the study of Indian offshore field where maximum amplitude relating to reservoirs at low frequency in the range of 10 to 20 Hz was observed.

The paper titled “Basement Hydrocarbon Exploration- Overview of petroleum system, Multi-component seismic analysis, identification of fractures and status of Indian basin exploration” by N Chandrasekhar et.al., exploration of basement with the advancement of multi- component seismic, borehole and logging techniques and the overview of Indian exploration scenario have been discussed.

GEOHORIZONS, a half yearly technical journal of Society of Petroleum Geophysicists, India, provides a golden platform to share and discuss the latest advancements in applied geophysics. I am sure that same level of enthusiasm will be shown by the authors for the coming issues also.



(C Visweswara Rao)