Proceedings of the Second International Petroleum Conference and Exhibition
9-12 JANUARY 1997
Vigyan Bhavan, New Delhi

PETROTECH-97

Editors
N. Swamy and P. Dwivedi
KDM Institute of Petroleum Exploration, ONGC, Dehra Dun, India

VOLUME II
EXPLORATION

B.R. PUBLISHING CORPORATION
[A Division of BRPC (India) Ltd.]
DELHI-110 052
Contents

Seismic Stratigraphy and Hydrocarbon Prospects of Cretaceous and Older Sediments in Kolleru Lake Area, K.G. Basin, India

Source Characterisation of Vadaparu-Pasarlapudi-Palakollu Formations, East Godavari Sub-Basin, Krishna-Godavari Basin, India
P. Neeraja, Priti Mathur, S.C. Maheshwari and H.P. Khandurie

Resolving Complexities Using 3D Seismic Data: A Case Study
O.P. Sinha, V. Rangachari and R.K. Sharma

Subsidence History Rate of Sedimentation, Unconformities, Flooding Surfaces and Source Potential of Cretaceous Sediments of Cauvery Basin
A. Govindan and C.N. Ravindran

Improved Imaging of Subsurface from 3D Seismic—A Case History
R.J. Singh, S.K. Jain, P.S.N. Kutty and M. Chandra

Rift-related Linked Depositional Systems—A Case Study from Tanjore Sub-Basin Cauvery Basin
J.N. Sahu, P.L. Zutshi, and S.D. Shukla

Depositional Environment in Cauvery Basin as Revealed by Stable Carbon and Oxygen Isotopes
U. Chandra, P. Dwivedi, A.K. Mittal and A.K. Uniyal

Correlation between Rock-Eval Tmax and Vitrinite Reflectance in the Sediments from Nagapattinam Sub-Basin, Cauvery Basin
M.N. Pande, N.J. Thomas and K.N. Misra

Maturity Modelling Using Chemical Kinetics in the Tranquebar Sub-Basin, Cauvery Basin, India
Priti Mathur and M.V.N. Chari

The Occurrence of Condensates in Multipay Reservoirs of Cauvery Basin, India
M.S. Raza Khan, J.P. Goel, Anil Pande, A.K. Garg, M. Mathur and K.N. Mishra
Oil to Oil and Oil to Source Correlation in Nagapattinam Sub-Basin of Cauvery Basin
Kamal Nain, Vibha Prabhakar, S.P. Singh, M.N. Upadhyay and A.K. Mittal

Clay Mineral Analyses and Their Effect on Reservoirs of Cretaceous and Tertiary Sequences of Kovilkalappal and Narimanam Areas, Cauvery Basin, India
K.C. Vig, A.K. Nyal and M.M. Bahuguna

Role of Mineralogy and Geochemistry for Evaluating Depositional Setting, Diagenesis and Hydrocarbon Prospects in Jurassic Sediments in Jaisalmer Basin, India
A.N. Pandey

Genetic Characterization and Correlation of Natural Gases in Jaisalmer Basin, India
A.K. Uniyal, P. Dwivedi, A.K. Mittal, V. Banerji and U. Chandra

Identification of Carbonate Prospect from 3D Seismic in West Bengal, Basin
R.J. Singh, T. Upadhyay and S.K. De

Upper Tertiary Channel Prospect—Future Target of Bengal Basin

Foraminiferal Biostratigraphy, Paleoenvironmental Analysis and Petroleum Source Potential in the Cretaceous Sequence of Bengal Basin, India
P.K. Mishra and Jagmohan Singh

Organic Matter Maturation Interpretation by Fluorescence Microscopy and Maturation Profiles in Bengal Basin, India
Pushkar Nath Kapoor

Occurrence of Adsorbed Gaseous Hydrocarbons in the Shelf-Slope Sediments off Chilka Lake-Nagapattinam, Bay of Bengal
P. Prabhakara Rao

Evolution of Damodar and Other Proto Rivers of Bengal Basin
Sucheta Dotiwala and G.C. Naik

Stable Isotope Variation Across Cretaceous/Tertiary Boundary in UM Souryngkew River Section, Meghalaya, India
A.R. Vijan, A.K. Mittal, M. Bansal, P. Rathi, B.N. Prabhu and J. Pandey
Prediction of Formation and Fracture Pressure and Its Role in Hydrocarbon Exploration in Cachar Area, Assam
P.K. Nandi, D. Purkayastha, and S. Chowdhuri

Prediction of High Pressure Zone using VSP Data—A Case History
A.K. Sarkar and L.K. Marwah

Structure of Siwalik Belt in Dun Valley and Possible Hydrocarbon Prospects
Dinesh Sati, Piyoosh Rautela and Giribareshwar Mamgain

Source Rock Characteristics and Hydrocarbon Generating Potential of Mesozoic Sediments in Lodhika Area, Saurashtra Basin, Gujarat, India
Dhruvendra Singh, C.A. Alat, R.N, Singh and V.P. Gupta

Strontium Isotope Stratigraphy and Stable Isotope Variation of Carbonate Sediments from Kutch Offshore area, India

A Study of Eastern Vindhyan Basin for Its Hydrocarbon Prospect by Gravity and Magnetic Methods
C.L. Singh

Potential Fractured Reservoirs in Vindhyan Super Group and Their Relation to Petrographic Characteristics
James Peters, P.K. Bhatnagar and S.K. Singh

Hydrocarbon Prospects in Pinch-Outs in Damoh Area, Vindhyan Basin
V.S.B. Sarma, A.N. Tandon and Dipankar Dutta

Investment Opportunities in Deep Waters of India
Kuldeep Chandra, D.K. Panney, A.K. Pathak and Anand Sahu

Exploration and Exploitation of Hydrocarbons in Western Offshore, India
R.K. Bhat, A.K. Pandey and A. Saha

Role of Calcareous Nannoplankton in Deep Water Exploration—A Quick Method of Dating
R.K. Saxena

Applications of Modern Production Logging Sensors to High Water-cut Environments
Yves Chauvel

Multidisciplinary Approach for Reservoir Zonation
A.Y. Zekri
Geologic Investigation of Vertical and Lateral Crosswell Seismic Response in a Carbonate Reservoir—McElroy Field, West Texas
K.E. Tucker, P.M. Harris and R.C. Nolen-Hoeksema

Chemical Sedimentological Studies for Paleo-Environment of Sediments from Indian Basins
A.K. Bhatnagar

Integration of Core and Log Data for Enhanced Reservoir Characterisation
Pushpa Sharma, V.K. Mehta, V.K. Jain and H.S. Rawat

Reservoir Heterogeneity Delineation through Multiple Well Pressure Transients
V.K. Mehta, V.K. Jain and H.S. Rawat

CT Assisted Core Analysis of Unconsolidated Sand under Cryogenic Conditions
Rajesh K. Mittal, Vinay C. Rundwal

Anisotropy and Its Role in Structural Imaging
V. Singh, Sanjay Kumar, R.K. Khanna and D. Dutta

Consideration of Uphole Signature for Charge Depth Optimisation: A Field Experiment
R.K. Khanna and G.S. Chaturvedi

The Effect of Saturation on Sonic Transit Time
H.L. Sircar, H.K. Rawat and S.K. Sharma

Echometer Survey for Bottom Hole Pressure Interpretation and Lift Optimisation in SRP Wells
Ajay Bahuguna, Anil Srivastava, V.K. Jain and H.S. Rawat

A Laboratory Study of Ethane Rich Continuous and Cyclic (Huff 'N' Puff) Processes for Light Oil Reservoir under Immiscible Conditions
H.S. Dayal, A.K. Sharma and S. Majhi

Study of Pressure Area Isotherm of Indigenous Crude Oil Fractions
A.K. Pathak, T. Kumar and S.N. Mishra

Information Technology—An Aid to Training Development in Upstream Oil Industry
D. Mukherjee and Vijay Kumar

Use of Information Technology in Petroleum Exploration: A Review
A.K. Srivastava, Bhagwan Das, C.N. Sharma and S. Kumar
Data Management in Oil Exploration  
Jaipal, R. Mohan and P.K. Mittal  

Global Paradigm Shift and the Need of Synergy between  
Information Technology Strategy and Business Objectives  
D. Ranga and Sarvesh Kumar  

Author Index