



AAPG

Latin America & Caribbean Region

ARGENTINA 2016

Geosciences Technology Workshop

Co-hosted by the Argentine Association of Petroleum Geologists and Geophysicists



Moving toward the Prediction of Unconventional Plays: Lessons Learned from Tight & Shale Reservoirs in the Neuquén Basin

Wednesday, 16 November 2016

08:00 REGISTRATION (Rialto Foyer)

08:45 OPENING CEREMONY (Rialto A)

Honorary Chair: Carlos Colo, Honorary Chair, Vice President of Exploration, YPF; *General Co-Chairs:* Eduardo Vallejo, AAGGP President, Victor Vega, AAPG Latin America & Caribbean Region President

SESSION I – TIGHT GAS RESERVOIRS CASE STUDIES

Co-Chairs: Denis Marchal, Pampa Energía; María Fernanda Raggio, YPF

- 09:20 I.1 Static and Dynamic Characterization of Lajas Formation Sands: Lessons Learned and to be Learned in the Cupen Mahuida Area of the Neuquén Basin. (Alphabetical order) R. Coppo, C. Gatica, S. Iglesias, J. Fernández, Diana Masiero* (co-presenter), E. Rodríguez*, Emiliano Santiago (co-presenter), G. Terrasanta, G. Valenzuela, F. Wagner; YPF; YPF Tecnología*
- 10:00 I.2 Centenario Field, Neuquen Basin: Recent developments in Tight Gas Reservoir Characterization, Los Molles Formation. Andres Gimenez (presenter), Pluspetrol
- 10:40 **COFFEE BREAK (Rialto Foyer)**
- 11:10 I.3 Recent Advances in Characterization and Strategies for Profitability Improvement: EFO Tight Gas & Condensate Field, Neuquén Basin. P. Alencastre, P. Conte, M. García, N. Otalora (presenter); G. Potas, G. Serrano, YPF
- 11:50 I.4 Tight Contributions in a Mature Fas Field: Mulichinco Formation-Aguada Pichana. Natalia Scaricabarozzi (presenter), G. Chao, L. Skobiekas, Total Austral
- 12:30 **WRAP UP WITH CO-CHAIRS AND PRESENTERS (Rialto A)**
- 13:10 **LUNCH (Restaurante Il Moro)**

SESSION II – TIGHT GAS RESERVOIRS APPLIED TECHNOLOGIES

Co-Chairs: Luis Carlos Vaillard, AAGGP; María Fernanda Raggio, YPF

- 14:10 II.1 Characterization and Geomechanics-based Modelling of Natural Fractures: Impact in Unconventional Plays. Rene Manceda, Ramiro Lopez, Damian Hryb (co-presenters), YPF
- 14:40 II.2 Unconventional Reservoirs: New Insight on Conventional Petrography. Viviana Meissenger (presenter), YPF; G. Lo Forte, YPF Tecnología
- 15:10 II.3 Conceptual Models based on Outcrop Analogy: The Evolution and Impact of New Technologies. Daniel Boggetti (presenter), PyT Consultora
- 15:40 **COFFEE BREAK (Rialto Foyer)**
- 16:00 II.4 Cased Hole Petrophysics for Gas-Oil Relationship Evaluation, Alejandro Schiuma (presenter) C. Mejia, Weatherford
- 16:30 II.5 Abnormal Pressures and Water Saturations in Tight Gas Scenarios. Marcelo Crotti, Inlab
- 17:00 **WRAP-UP WITH CO-CHAIRS AND PRESENTERS (Rialto A)**

Thursday, 17 November 2016**08:30 REGISTRATION (Rialto Foyer)****08:45 INTRODUCTION (Rialto A)***General Co-Chairs:* Eduardo Vallejo, AAGGP; Victor Vega, AAPG**SESSION III – SHALE RESERVOIRS CASE STUDIES 1***Co-Chairs:* Germán Bottesi, YPF; Dolores Vallejo, Chevron**09:00 III.1** Exploration and Delineation of the Vaca Muerta Formation: Seven Years Sorting out the Play. Iván Lanusse Noguera (presenter), YPF**09:40 III.2** Data Integration and Multidisciplinary De-risking of the Vaca Muerta Resource Play: Sierras Blancas and Cruz de Lorena Blocks, Neuquen Basin, Argentina. Vivek Jain (presenter), M. Thomas and M. Jardon, Shell Exploration & Production Company**10:20 COFFEE BREAK (Rialto Foyer)****10:50 III.3** Loma Campana Shale Project: What We Did and What We have Learned After Five Years. Diego Tomás Licitra (presenter), F. Dominguez, J. Quiroga, J. Fernandez, F. Vittore y F. Abella, YPF; M. Fantin, Chevron**11:30 III.4** The Role of Geology in Vaca Muerta Appraisal. Guillermina Sagasti (presenter), YPF**12:10 WRAP UP WITH CO-CHAIRS AND PRESENTERS (Rialto A)****12:50 LUNCH (Restaurante Il Moro)****SESSION IV – SHALE RESERVOIRS APPLIED TECHNOLOGIES 1***Co-Chairs:* Raúl Alejandro Varela, YPF; Denis Marchal, Pampa Energía**13:50 IV.1** Application of Ash Beds in Petroleum Systems Analysis, Daniel Minisini (presenter), Shell**14:20 IV.2** High-resolution Chemostratigraphy and Sequence Stratigraphic Correlation of the Vaca Muerta Formation, Neuquén Basin, Argentina. Eider Hernández Bilbao (presenter), Colorado School of Mines**14:50 IV.3** Operative Sequence in Cores from Tight and Shale Reservoirs. S. Blanco Ibañez, M. Rodriguez Schelotto, Patricia Ferraresi (presenter), LCV SRL**15:20 COFFEE BREAK (Rialto Foyer)****15:40 IV.4** From Nanopore to Seismic Scale - the Role of Organic Matter in Vaca Muerta Shale Oil Productivity and Sweet Spot Prediction in the Rincón de Aranda Block, Denis Marchal (presenter), A. Pérez Mazas, C. Naidés, F. Sattler, J. Erlicher, G. Kohler, E. Nigro, Pampa Energía; S. Sommacal, A. Fogden, Fei Oil and Gas**16:10 IV.5** Unconventional Play Analysis and Modeling: Lessons Learned from an Integrated Study of the Lower and Middle Triassic of Western Canada. Sébastien Rohais (presenter) E. Bemer, B. Chauveau, V. Crombez, M. Ducros, T. Euzen, T. Fleury, D. Granjeon, S. Pauthier, M. Romero-Sarmiento, IFPEN**16:40 IV.6** LWD Unconventional Shale Technologies, Camilo Mejia (presenter), R. Ruiz, Weatherford**17:10 WRAP-UP WITH CO-CHAIRS AND PRESENTERS (Rialto A)**

Friday, 18 November 2016**08:00 REGISTRATION (Rialto Foyer)****08:45 INTRODUCTION (Rialto A)***General Co-Chairs:* Eduardo Vallejo, AAGGP; Victor Vega, AAPG**SESSION V – SHALE RESERVOIRS CASE STUDIES 2***Co -Chairs:* Matías Di Benedetto, YPF; Carlos Berto, Tecpetrol*Case Studies:*

09:00 V.1 Challenges in Vaca Muerta: Tecpetrol Experience in the Exploration and Appraisal of the Play. Sebastián Olmos (presenter), Tecpetrol

09:40 V.2 Aguada Federal: Vaca Muerta Shale Case Study. Osvaldo Nielsen (presenter), J. Caniggia, Wintershall

10:20 V.3 Vaca Muerta Formation Characterization in the Northern Sector of the Play. Manuel Fantín (presenter), D. Vallejo, H. Reijenstein, E. Lombardo, L. Crousse, Chevron; I. Lanusse Noguera, R. Varela, YPF

11:00 COFFEE BREAK (Rialto Foyer)*Presentations:*

11:30 V.4 Thermal Maturity Effect on Rock Properties and their Fluids in the Vaca Muerta Formation. Alberto Ortiz (presenter), YPF

12:00 V.5 Rock Mechanical Characterization on Shale Cores: How We Test, How We Use Them, and How We Can Measure Them. Raúl Alejandro Varela (co-presenter), Damian Hyrb, YPF; Juan Pablo Álvarez Crosta (co-presenter), YPF Tecnología

12:30 V.6 A Simplified Workflow for Estimation of Elastic Anisotropy in Vaca Muerta, Ezequiel Lombardo (presenter), S. Cuervo, Chevron

13:00 WRAP-UP WITH CO-CHAIRS AND PRESENTERS**13:40 LUNCH (Restaurante Il Moro)****SESSION VI – SHALE RESERVOIRS APPLIED TECHNOLOGIES 2***Co-Chairs:* Ed Kruijs, Shell; Iván Lanusse Noguera, YPF

14:40 VI.1 Experimental and Theoretical Study of Water and Solute Transport Mechanisms in Organic -Rich Carbonate Mudrocks. Antón Padín Debén (presenter), Colorado School of Mines

15:10 VI.2 Enhanced Production After Extended Shutin (Soaking) Is the Vaca Muerta a Candidate? G. Salter, R. Miller, David Hume (presenter), Integrated Reservoir Solutions, Core Laboratories

15:40 COFFEE BREAK (Rialto Foyer)

16:00 VI.3 Quantitative Estimation of Permeability Enhancement, Production Volumes and Drainage Area from Microseismic Data. Peter Duncan (presenter) Microseismic Inc.

16:30 VI.4 Microseismic and Fiber optics technologies applied to Neuquen Basin case studies. Nick Giordano (presenter), Halliburton

17:00 WRAP-UP WITH CO-CHAIRS AND PRESENTERS (Rialto A)**17:20 CLOSING CEREMONY (Rialto A)**