



ARPEL Workshop
**“Conventional and Unconventional
Gas Resources”**

Los Tajibos Hotel
Santa Cruz de la Sierra, Bolivia
November 7-8, 2013

Host Company:



Introduction and Objectives

The Workshop "Conventional and unconventional gas resources", organized by the Regional Association of Oil, Gas and Biofuels Sector Companies in Latin America and the Caribbean (ARPEL), and hosted by Yacimientos Petrolíferos Fiscales Bolivianos (YPFB), will be the most relevant technical event on natural gas in the region, and will be developed in the link country to this energy source in the region. The Workshop will serve as a forum for the exchange of experiences, mainly on methodologies, and will address the challenges in exploration and exploitation of conventional and unconventional gas reservoirs, under the framework of new technologies, current context and forecasts on an encouraging future for the called "gas era".

The main purpose of the Workshop is to meet Managers and specialists in the area, facilitating the discussion, exchange of experiences and analysis of challenges, and to present techniques and methodologies on topics related to exploration, exploitation, distribution and the responsible and sustainable management of hydrocarbons.

During two days, experts from the sector and representatives of the main companies that are currently developing important hydrocarbons projects in the region will meet in Santa Cruz de la Sierra - Bolivia, focusing on exploration and exploitation of natural gas. The Workshop will address the technology available or to be tested to all upstream stages including work to detect potential leads up until ideas to optimize natural gas exploitation in the region.

In this regard, topics to discuss will be focused in the advances on exploration and development of exploitation projects in fold belts, the implementation of new techniques in the characterization and dynamic model of gas reservoirs, and the results of the application of intelligent completion systems. The advances in the use of new materials for HT-HP production facilities will also be addressed. Motivated by world tendencies, the Workshop will also include a relevant session on specific topics regarding unconventional gas exploration and exploitation.

Who should attend the Workshop?

The Workshop will be of particular interest to: operation and corporate managers responsible for the areas of exploration, reservoirs engineering, drilling and production of conventional and unconventional gas fields, representatives of operators and contractors in Latin America and the Caribbean.

Topics of the Workshop

- **Exploration**
 - ✓ Gas exploration and development techniques and methods in fold belts.
 - ✓ Direct indicators in gas exploration. Traditional or innovative methods based in geophysical, geochemical or other data.
 - ✓ Seismic acquirement and processing to improve underground image in fold belts exploration.
- **Reservoirs**
 - ✓ Reservoirs characterization.
 - ✓ Reservoir dynamic modeling.
 - ✓ Field development and production optimization probabilistic modeling.

- **Production**
 - ✓ Completion: intelligent systems, multilateral wells, sand control systems and rigless.
 - ✓ Deliquification systems: gas lift, plunger lift, capillary injection, foamers and velocity string.
 - ✓ Assay systems for high flow and high pressure wells.
 - ✓ Gas treatment plant: models and automation levels.
- **Unconventionals**
 - ✓ Reservoirs characterization
 - Geological, geophysical and geochemical characterization of unconventional reservoirs.
 - Geomechanics.
 - Formation evaluation.
 - Economic evaluation.
 - ✓ Wells drilling and completion
 - Minimizing drilling costs.
 - Optimizing well location (reservoir simulation).
 - Optimization of the drilling fluids program to increase the penetration rate and reduce the environmental impact.
 - Optimal design of the completion and fracturing stages.
 - Additives development for hydraulic fracturing with minimal environmental impact.
 - Monitoring methods during well treatment with hydraulic fracturing.
 - ✓ Environmental issues in the exploitation of shale gas
 - Water supply.
 - Waste disposal.
 - Impact on communities.
 - Aquifers pollution.

AGENDA

Thursday 7 November

11:00 – 03:00	Registrations - Hotel Los Tajibos
06:00 – 09:00	

Thursday 7 November

07:30 – 08:30	Registrations and accreditations
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08:30 – 09:00	Opening Remarks: Carlos Villegas, YPFB Executive President Luis Macias Chapa (PEMEX), Chair of the ARPEL Exploration and Production Committee
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PANEL 1. - Exploration - Moderators: Marcelo Arteaga, VP Geosciences - Pluspetrol
Carlos Sensano, Exploration Manager - YPFB Andina

09:00 - 09:30	Definition of exploratory prospects on the Lliquimuni Block	Naim Issa Bolivian International Project Leader YPFB Petroandina
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09:30 - 10:00	Gas exploration in the Bolivian Southern Sub-Andean foothil	Gustavo Vergani - Exploration Manager Pluspetrol Bolivia Corporation S.A.
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10:00 - 11:00	Coffee break
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PANEL 2. - Exploration - Moderators: Marcelo Arteaga, VP Geosciences - Pluspetrol
Carlos Sensano, Exploration Manager - YPFB Andina

11:00 - 11:30	Exploratory methodology and philosophy of Petrobras in Bolivia	Germán Fernández - Exploration Manager Petrobras Bolivia
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11:30 - 12:00	Exploratory process and chronology of the Incahuasi field discovery	Jean-Marc Fleury - Geosciences Manager Total E&P Bolivia
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12:00 - 12:30	Development of Camisea project. Main accomplishments and future challenges	Johnny Gabulle Senior Geologist - Pluspetrol Perú
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12:30 - 01:00	New Seism-Stratigraphic evidences of Permian Formations and its influence on the Block 57 Gas System	Diego Ventura - Development Geophysicist - Repsol Exploration Perú
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01:00 - 02:30	Lunch
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PANEL 3. - Reservoirs - Moderators: Edgar Sagarnaga, Exploration & Development Manager - YPFB Chaco
Renan Ugarte Gareca, Development Manager - YPFB Andina

02:30 -03:00	Geological Modeling workflow for Naturally Fractured Reservoirs in a fold and thrust belt: An example from Margarita Field, Bolivia	Juan Carlos Córdova Salinas Development Geologist - Repsol Bolivia
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03:00 - 03:30	Removal of condensates through injection of natural gas inhibited with micellar surfactants in the Cupiagua Field	Oscar Fabian Botero Subsoil Engineer - Ecopetrol
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03:30 - 04:00	Application of the dynamic mass balance to estimate in situ volume in reservoirs of condensate gas of the Devonian system in the central Sub-Andean region: study cases.	Pedro Adrian - Reservoirs Jr. Engineer YPFB Chaco S.A.
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04:00 - 04:30	Coffe Break
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PANEL 4. - Reservoirs - Moderators: Edgar Sagarnaga, Exploration & Development Manager - YPFB Chaco
Renan Ugarte Gareca, Development Manager - YPFB Andina

04:30 - 05:00	Design and planning of strategic information collection to charcaterize fields and its impact in the development strategy of the Tsimin-Xux Project.	Osiel Flores Brito Studies Engineer – Design and Projects Engineering, PEMEX Exploration & Production
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05:00 - 05:30	Maximization of the final recovery factor through integrated modeling of mature and naturally fractured fields.	Joaquin Teixeira Mercado Reservoirs Engineer Consultant Petrobras Bolivia
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07:00	Welcome Cocktail - Hotel Los Tajibos
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Posters Exhibition will be available throughout the workshop. The authors will be available during the morning coffee break of both days

AGENDA

Friday 8 November

PANEL 1. - Production - Moderator: Omar Barreras, Business Development – Weatherford

Santiago Díaz, Expert on Hydrocarbons Production - Ecopetrol

08:30 - 09:00	Well Clean Up and Well testing Best practices in Margarita-Huacaya Field	Fernando Lema Production Engineer Repsol Bolivia
09:00 - 09:30	Benefits of advanced plunger lift applications on liquid loaded unconventional gas wells	Luis Montilva Product Line Specialist-Deliquification Systems Weatherford
09:30 - 10:00	Migration of the gas plant control system in San Alberto PEB/STO	Heitor Rissatto Instrumentation and control systems- Petrobras Bolivia
10:00 - 11:00	Coffee break	

PANEL 2. – Production - Moderator: Omar Barreras, Business Development – Weatherford

Santiago Díaz, Expert on Hydrocarbons Production - Ecopetrol

11:00 - 11:30	Ceramic filters: innovative solution for sand producing fields	Mario López Petroleum Engineer BG Bolivia
11:30 - 12:00	Deliquification: first field wide installation of surfactant injection around surface controlled subsurface safety valves leads to greater than expected production uplift	Shonagh Mackie Global Renaissance Specialist Weatherford
12:00 - 12:30	Implementing new technologies to increase productivity in condensate gas fields of Cupiagua field in the Colombian foothill	Hector Acuña David Subsoil Engineer Ecopetrol
12:30 – 02:30	Lunch	

PANEL 3. – Unconventional - Moderators: Ignacio Sainz, Business Development - Halliburton Bolivia

Hector Acuña, Subsoil Engineer - Ecopetrol

02:30 - 03:00	The Southern Cone Natural Gas Deficit: Paving the way for unconventional gas supplies?	Roberto Ferreira da Cunha Research Associate IHS CERA
03:00 - 03:30	Technical issues about shale gas exploration in the Bolivian Chaco basin	Enrique Aguilera Geologist Geochemist YPFB
03:30 - 04:00	Geological-geophysical characterization of Vaca Muerta formation (Neuquén, Argentina).	Sebastián María - Senior Geologist Pluspetrol S.A.
04:00 - 04:30	Coffee break	

PANEL 4. - Unconventional - Moderators: Ignacio Sainz, Business Development - Halliburton Bolivia

Hector Acuña, Subsoil Engineer - Ecopetrol

04:30 - 05:00	Potential opportunities of shale gas - IN SHINAI Formation BLOCK 57, Peru	Camilo Rojas Development Geologist Repsol Perú
05:00 - 05:30	Clay Volume Calculation: Importance of the petrophysical evaluation in shale oil and gas field	Hugo Ávalos Torres Head Petrophysics Department, Exploration Asset Támipico Misantla PEMEX Exploration & Production
05:30 - 06:00	Closing Ceremony: Luis Carlos Sánchez – Hydrocarbons Resources Assessment Manager - YPFB Miguel Moyano, ARPEL Upstream Director	

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