4–5 SEPTEMBER 2024

SERHS NATAL GRAND HOTEL AND RESORT

NATAL, RIO GRANDE DO NORTE, BRAZIL

Improving Recovery Factors in Onshore Fields

Without a doubt, mature fields are technically and economically challenging. Water handling, stimulation, artificial lift, surveillance and new development plans require creative solutions based on alternative approaches. Therefore, several independent companies, as well as national oil companies operating these fields, demand renewed investments in technologies, training, and research to increase the recovery factor and optimize production.

The Brazilian mature onshore basins are still prolific after decades of production and have a myriad of profitable opportunities to all operators. The challenge is determining what can be done to increase their Recovery Factor, aiming to improve the reserves. Some of the actions include but are not limited to stimulation, re-completion, chemical\water\steam injection, modification of tax structures, extensive infill drilling, accurate reservoir monitoring and management, and the optimization and operation of proper production technologies. Additionally, there is always space to discuss cost efficiency and opportunities for cost reduction.

The main goal of this workshop is to facilitate the exchange of knowledge among the attendees, presenting best practices, new technologies and case studies to increase the efficiency of the exploitation of these fields.

CO-CHAIRPERSONS

SELMA FONTES
ORIGEM ENERGIA

LUIS QUINTERO
HALLIBURTON

ADVISOR

TIARAJU BERNARDI
PETROBRAS

PROGRAM COMMITTEE

JUAN ALVES
SEACREST

FERNANDO BERTOMEU
ITBA

JESSICA CASTILLO
BAKER HUGHES

ERIC DELAMAIDE
IFP TECHNOLOGIES CANADA INC

EUGENIO FERRIGNO
GLOBANT

DIEGO PEREZ
INDEPENDENT CONSULTANT

EMERSON RODRIGUES
SLB

HOMAYRA SILVA TAVARES
PETRORECONCAVO

STENIO TAVARES
PETRORECONCAVO

CRISTIAN IVAN VON ZEDTWITZ
HALLIBURTON

THANK YOU TO OUR SPONSORS >

3R PETROLEUM
PLATINUM SPONSOR

PetroReconcavo
GOLD SPONSOR

SPE International
Society of Petroleum Engineers

Technical Agenda

WEDNESDAY, 4 SEPTEMBER

0730–0825 **Registration Check-In Breakfast**

0825–0830 **Chairperson's Welcome and Introduction**

0830–1000 **Session 1: Well Design (Geometry), Completion and Stimulation**

Chairs: Stenio Tavares, Petrobras

Benefits and Challenges of Formation Tests in Brown Fields Development	**Homayra Tavares,** Petroreconcavo
How Advanced Multilateral Completions Help to Increase Production Rates and Recovery Factors While Also Lowering the Environmental Footprint Compared to Traditional Methods	**Andreas Grossmann,** Halliburton
History of Hydraulic Fracturing in Brazil	**Victor de Andrade Faria,** Petrobras
Organic Stimulation and Cleaning with Asphaltene Dispersant	**Antonio Albuquerque,** PetroReconcavo

1000–1030 **Coffee Break**

1030–1230 **Session 2: Enhanced Oil Recovery—Applications and Challenges I**

Chairs: Jessica Castillo, Baker Hughes
Diego Perez, Independent Consultant

Revitalizing Mature Onshore Oil Assets in Brazil: Polymer Flooding as a Sustainable Alternative to Steam Injection	**Eduardo Bonilla,** SNF
Integrated Fluid and Reservoir Characterization for Enhancing Heavy Oil Recovery via Hybrid Solvent-Steam Injection	**Daoyong Tony Yang,** University of Regina
Design, and Implementation of a Spherical Flow Control Valve for Selective Injection of Polymeric Solutions in Chemical Recovery Processes	**Henderson Quintero,** Ecopetrol

1200–1330 **Lunch**

1330–1500 **Session 3: Waterflooding**

Chairs: Eric Delamaide, IFP Technologies Canada Inc

Uncertainties in EM-Derived Sw in Waterflood Monitoring	**Luis Quintero,** Halliburton
A Physics-Embedded Machine Learning Workflow to Accurately Allocate Production in Multi-Layer Waterflood Operations: A Requirement to Estimate and Improve Recovery Factors	**Fernando Gutierrez,** Tachuys
Preventive Acidification in injector Well	**Francisco Sarvio Da Costa Camara,** Petroreconcavo

1500–1530 **Coffee Break**

1530–1700 **Session 4: Well Integrity**

Chairs: Emerson Rodrigues, SLB
Cristian Ivan Von Zedtwitz, Halliburton

Well Integrity and EOR	**Isidoro Garcia dos Santos,** ANP
Extending Life of Mature Fields Assets through Conformance Chemical Solutions	**Julio Vasquez,** Halliburton
Well Integrity Management at Mature Onshore Production Fields, with Special Consideration given to Depleted-Reservoir Gas Storage Operations	**Christopher Gavin,** Origem Energia

1700–1830 **Networking Reception**

THURSDAY, 5 SEPTEMBER

0730–0830 **Breakfast**

0830–1000 **Session 5: Artificial Lift and Its Benefits for Improving Recovery Factor**

Chairs: Cristian Ivan Von Zedtwitz, Halliburton

Specialty Rod Pump Reduces Workover Frequency and Associated OPEX Costs in Austin Chalk Wells	**Sergio Granados,** ChampionX
Best Practices for Selection, Operation and Maintenance, Focused on Increasing the Run Life of ESP Systems and Environmental Protection	**Sebastian Gomez and David Loughman,** ITT BIW Connector Systems LLC
Unconventional ESP Application using Recirculation and Multiple Mixed-Flow Stages Pumps System in Gassy Well	**Victor Duarte and Lucivan de Souza,** Baker Hughes and Petroreconcavo
Reducing Carbon Footprint and Operative Costs of SRP Pumping Units by Replacing Induction Motors with Direct Drive Permanent Magnet Motors	**Joaquín Vaz,** Energy Solutions and Applications

1000–1030 **Coffee Break**

1030–1200 **Session 6: Enhanced Oil Recovery—Applications and Challenges II**

Chairs: Diego Perez, Independent Consultant
Jessica Castillo, Baker Hughes

Advancing Unconventional EOR Techniques: Investigating Surfactant Formulation through Laboratory Evaluations and Field Examples	**George Herman,** BASF
Polymer Flood in Extra Heavy Oil and Challenging Conditions	**Eric Delamaide,** IFP Technologies (Canada) Inc.
From the Laboratory to the Field: Argentine Companies that Decided to Implement Polymer Injection Projects to Increase Oil Recovery: Challenges and Learnings	**Aylen De Vita,** SNF Argentina

1200–1330 **Lunch**

1330–1500 **Session 7: Monitoring**

Chairs: Luis Quintero, Halliburton
Emerson Rodrigues, SLB

Increasing Recovery Factors by Combined Optimization of Producers BHP and Injectors Flowrate Applying a Physics Embedded ML Modeling Platform	**Fernando Gutierrez,** Tachuys
Automated Data Cleansing and Integrity for Enhanced Gas Production Analysis	**Laura Hentges,** Origem Energia
Water Optimization Analysis: Water Management Injection Production and Disposal	**Gustavo Palacios,** VYP Consulting Services

1500–1530 **Coffee Break**

1530–1700 **Session 8: Optimization**

Chairs: Luis Quintero, Halliburton
Juan Alves, Seacrest Petroleo

Relative Permeability Modifier Controlled Water Production and Enhanced Oil Production in a Mature Field in Colombia	**Esteban Pareja, Andres Noguera, Douglas Zavala, Milton Rodriguez,** Baker Hughes and Ecopetrol
Constructive Production Optimization on Pre-Salt Brown Fields	**Eugênio Fortaleza,** Universidade de Brasília - UnB
Enhancing Well Evaluation: Dual Shoot Technique Insights from Acoustic Liquid Level Analysis in Brazilian Onshore Gas Wells	**Ana Flavia da Silva Gomides,** Origem Energia

4–5 SEPTEMBER 2024

SERHS NATAL GRAND HOTEL AND RESORT

NATAL, RIO GRANDE DO NORTE, BRAZIL

SPE workshop

i GENERAL INFORMATION

ACCESSIBILITY

Our events and functions are accessible to all attendees with wheelchairs. If you require special arrangements, please contact our staff at the registration desk.

ALCOHOL POLICY

SPE recognizes the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognize that the use and consumption of alcohol carries with it the requirement for all attendees to consume those beverages responsibly.

COMMERCIALISM

In remaining consistent with workshop objectives and SPE guidelines, commercialism in presentations will not be permitted. Company logos should be used only to indicate the a liation of the presenter(s).

CONTINUING EDUCATION UNITS

Attendees will receive 1.6 CEUs. One CEU equals 8 contact hours of participation. CEUs will be awarded through SPE Professional Development for participation and completion of an SPE workshop. A permanent record of a participant's involvement and awarding of CEUs will be maintained by SPE.

DOCUMENTATION

Following the workshop, a URL containing released copies of the workshop presentations will be available to all attendees.

ELECTRONIC DEVICES

As a courtesy to the speakers and your fellow registrants, please turn off all electronic devices during presentations.

NAME BADGES

Please wear your badge at all times. It is a courtesy to your fellow registrants, speakers, and sponsors.

PHOTOGRAPHY AND RECORDING POLICY

SPE reserves the exclusive rights to all video/audio recording or reproductions of the workshop. Unauthorized video/audio recording is expressly prohibited in the session room(s) or poster area, whether by video, still or digital camera, mobile phone, or any other means or form of reproduction.

Any person attending may be photographed or videotaped, and by your attendance, you give permission to use your image in possible future marketing publications including print, online, and video.

WORKSHOP FORMAT

Workshops maximize the exchange of ideas among attendees and presenters through brief technical presentations followed by extended Q&A periods. Focused topics attract an informed audience eager to discuss issues critical to advancing both technology and best practices.

Many of the presentations are in the form of case studies, highlighting engineering achievements and lessons learned. In order to stimulate frank discussion, no proceedings are published and members of the press are not invited to attend.

SPE IS THE LARGEST INDIVIDUAL MEMBER ORGANIZATION SERVING MANAGERS, ENGINEERS, SCIENTISTS AND OTHER PROFESSIONALS WORLDWIDE IN THE UPSTREAM SEGMENT OF THE OIL AND GAS INDUSTRY.

Please take a moment and let us know your thoughts on this event!

go.spe.org/24ANATAttendee

www.spe.org