EXPECTATIONS vs RESULTS:

Improving Well Economics By Optimizing Drilling, Completions And Recovery
In The Eagle Ford’s Oil-Rich Reservoirs

June 27-28, 2012 | Houston | Texas

DETERMINING HOW TO ENHANCE PRODUCTION IN THE EAGLE FORD BY SELECTING THE OPTIMAL COMPLETIONS STRATEGY AND ANALYZING METHODS FOR EXTENDING RESERVOIR LIFE

- WELL SPACING/STAGES: Determining the optimal well and fracture spacing strategies in the Eagle Ford to maximize drainage and reservoir coverage without interference or overspending
- FRAC RECIPE: Analyzing proppants and fracture fluids in relation to volumes and concentration to develop a recipe for maximizing reservoir conductivity
- COMPLETIONS TECHNOLOGIES: Comparing cost and performance of specific completions tools that have proven to be the most effective in the Eagle Ford
- GEOSTEERING: Improving geosteering, analyzing natural fracture systems and calculating the optimum well placement to optimize production in the Eagle Ford
- WELL PERFORMANCE: Providing results of surveillance and pressure tests to determine well performance in the Eagle Ford and methods to extend the production cycle
- RESERVOIR CHARACTERIZATION: Presenting a cost-benefit analysis of the most innovative geological and petrophysical tools used to help identify sweet spots in the Eagle Ford

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An astonishing rise in the number of well permits recently issued in South Texas rapidly brings the Eagle Ford into the top tier of North American shale plays. Driven by excellent well results across not only its liquid-rich zones but also dry and wet gas, operators across neighbouring states are rushing to secure the last mineral rights in the area.

The endgame is clear: to find that perfect completions recipe where each technique and technology is optimally chosen to maximize production and extend reservoir life without overspending.

The Tight Oil Eagle Ford Congress 2012 will dedicate two days entirely to improving well economics by optimizing drilling, completions and recovery in the Eagle Ford’s oil-rich reservoirs. It will provide case studies where operators have achieved higher ROI by improving geosteering and completions at a low cost.

Day 1 will hear operators’ results of well and frac spacing experiments determining what optimum reservoir coverage can be achieved without well interference. It will analyze proppant types and completions techniques that are being utilized in the Eagle Ford and their cost-effectiveness relative to recovery rates.

Day 2 will compare estimated IP rates and EURs in Eagle Ford wells to recent results and examine tried and tested methods for extending reservoir life. The afternoon will address a cost-benefit analysis of the most innovative geological and petrophysical tools being used to identify sweet spots in the area, closing with an evaluation of the usefulness of microseismic analysis in predicting reservoir coverage during frac stimulation.

Sponsorship And Exhibition Opportunities At The Tight Oil Eagle Ford Congress 2012

Need to generate new sales leads, launch a new product, engage key decision makers, build new future business relationships in key markets, or simply educate the industry about a new product? Then you need to exhibit at the Tight Oil Eagle Ford Congress 2012. Our busy exhibit area is an integral part of the Summit and is of genuine practical value to delegates, who are looking for new solutions and technologies. Exhibiting at the conference will help you position yourself as a market leader and centre of excellence to the key decision makers in the industry.

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DAY 1: DETERMINING HOW TO IMPROVE WELL ECONOMICS IN THE EAGLE FORD BY SELECTING THE OPTIMAL FRAC FLUID COMPOSITION AND COMPLETIONS STRATEGY

Day 1 will analyze Eagle Ford case studies where maximum reservoir coverage has been achieved by changing the right completions variables to optimize production.

Chair: Charles Cusack, VP Exploration, BHP Billiton

8:50 Chair’s Opening Remarks

KEYNOTE: WELL ECONOMICS

9:00 Analyzing Cost-Effective Completions Optimization Strategies That Have Had The Highest Impact On Well Economics And Well Longevity In The Eagle Ford

• Determining what geological and petrophysical analysis must be done to maximize the return on investment in the chosen sweet spot
• Understanding how the long term exploitation objectives of an operator influence the choice of completions strategy and petrophysical tools adopted
• Implementing technologies to verify completion effectiveness and maximize well economics
• Utilizing well analysis techniques to properly analyze well performance

Wayne Scott, Completions Manager, Pioneer Natural Resources

9:30 Question & Answer Session

EXAMINING HOW TO MAXIMIZE RETURN ON INVESTMENT BY TARGETING ONLY PRODUCTIVE ZONES IN THE EAGLE FORD AND HOW TO AVOID OVERSPENDING ON LOW TOC LAYERS

WELL SPACING

9:40 Showcasing How An Operator Has Selected A Well Spacing Strategy To Maximize Drainage And Reservoir Coverage Without Interference Or Overspending

• Predicting the point of diminishing returns within the horizontal well drainage area to maximize ROI
• Identifying how microseismic and other diagnostic tools can minimize the amount of wells required by ensuring the complete zone is stimulated
• Learning how to deal with horizontal-well interference in the Eagle Ford to avoid early blow-outs
• Advising on operational and safety procedures to prevent communication between wells and long-lasting maintenance issues

Bryan Stewart, Reservoir Engineer, Lucas Energy

10:10 Question & Answer Session

10:20 Morning Refreshments In Exhibition Showcase Area

MULTI-STAGE FRAC

10:50 Choosing The Amount Of Fractures And Perforations Per Stage To Achieve Maximum Conductivity Without Overspending

• Investigating the results of completions experiments with cluster and frac numbers and determining how to achieve a more complex frac
• Examining results showing why a certain cluster spacing strategy has been adopted in relation to cost-effectiveness
• Debating what is regarded as the optimal interval thickness for successful hydraulic fracturing by the Eagle Ford operators to increase the IP
• Determining reservoir’s pressure limits to avoid early screen outs

Jim Flowers, VP of Drilling & Operations, Laredo Energy

11:20 Question & Answer Session

LATERAL LENGTH

11:30 Gaining Insight Into Drilling And Completions Technologies That Have Become Available To Enable The Economic Drilling Of Longer Lateral

• Case study: Explaining how to correctly determine the point of diminishing returns prior to geosteering
• Examining expected production rates vs actual results from longer horizontal wells to justify drilling longer laterals
• Evaluating cutting edge drilling muds and geosteering tools that have made it easier to economically drill longer laterals in the Eagle Ford
• Understanding what subsurface structures can cause equipment malfunctioning and reduce well performance in a longer horizontal well

Mike Loudermilk, VP Drilling, Lewis Energy Group

12:00 Question & Answer Session

LUNCH IN EXHIBITION SHOWCASE AREA

12:10 FRAC GROWTH IN NATURALLY FRACTURED RESERVOIRS

1.10 Maximizing The Impact Of Hydraulic Fracturing In Naturally Fractured Reservoirs: Insights From Numerical Modelling And Lab Experiments

• Illustrating how stress shadow effects hydraulic fracture geometry in sequential vs simultaneous multi-zone injections
• Determining whether hydraulic fractures will be diverted by natural fractures upon intersection
• Exploring the importance of natural fracture cement strength, orientation, and permeability on hydraulic fracture interaction
• Examining hydraulic fracture / natural fracture network complexity as a function of in situ stress and formation mechanical properties

Jon Olson, Associate Professor, Department of Petroleum and Geosciences Engineering, The University of Texas at Austin

1.40 Question & Answer Session

COMPARING PROPPANTS AND FRACTURE FLUIDS IN RELATION TO TYPE, VOLUMES AND CONCENTRATION TO DEVELOP A FRAC RECIPE THAT WILL ACHIEVE THE DESIRED LEVELS OF STIMULATED RESERVOIR VOLUME (SRV)

FRAC RECIPE THAT WILL ACHIEVE THE DESIRED LEVELS OF TO TYPE, VOLUMES AND CONCENTRATION TO DEVELOP A FRAC RECIPE THAT WILL ACHIEVE THE DESIRED LEVELS OF STIMULATED RESERVOIR VOLUME (SRV)

2.20 Examining Production Results From A3 Well Performance Comparison In Homogeneous Reservoir In The Eagle Ford

• Understanding the value of rate and pressure decline analysis
• Assessing cost-effectiveness of ceramic sands and their effect on profitability
• Analyzing treatment pressure differences observed with the different types of proppant
• Finding out supply issues to be faced as more activity increases to find solutions to them at early stages

Sean Buchanan, Completions Advisor, Plains E&P

2.40 Question & Answer Session

CERAMICS VS SANDS

2.50 Afternoon Refreshments In Exhibition Showcase Area

PROPPANT VOLUME & CONCENTRATION

3.20 Examining How An Eagle Ford Operator Has Successfully Chosen Frac Recipe That Maximizes Proppant Placement And Minimizes Liquid Volumes And Costs

• Water or polymers: which carries proppants most effectively and at what stage of completions
• Exploring the optimal proppant volumes per well and per barrel that have proved effective in the Eagle Ford
• Justifying higher pressure grades, after a reservoir has been fully evaluated and stages proved, to enable more proppant to be placed
• Assuming how an elevated demand for proppant in South Texas may impact future availability of proppant types

Sean Buchanan, Completions Advisor, Plains E&P

3.40 Question & Answer Session

COMPLETIONS: COST VS PERFORMANCE EVALUATING THE RESULTS OF USING SPECIFIC COMPLETIONS TOOLS THAT HAVE BEEN PROVEN TO BE MOST EFFECTIVE IN THE EAGLE FORD

COMPLETIONS TECHNOLOGIES: PANEL

3.50 Comparing Cutting Edge Completions Technologies In The Eagle Ford To Make The Most Economic Choice For The Target Zone: Cost, Performance, And Time

• Providing a detailed case study on how the sliding sleeve technology can reduce downtime and enhance production
• Advising further methods to use sliding sleeve more efficiently such as using multiple number of sleeves per stage
• Analyzing ways to improve the traditional plug and perf method to achieve higher performance for the same costs/throughout disadvantages of swellable packers technology in relation to various temperatures, fluids and chemicals to identify urgent gaps in R&D
• Assessing past successes of using alternative frac technologies such as liquefied petroleum gas and propane from environmental and safety perspectives

Panelists: Mickey Morris, Completions Manager, Zaza Energy
Garrett Frazier, Director of Marketing & Sales, Magnum Oil Tools International
Facilitated by: Charles Cusack, VP Exploration, BHP Billiton

4.20 Question & Answer Session

4.40 Pre-Reception Briefing: Understanding The Benefits Of Dedicated Fleet Services Integrated With Tank Level Tracking by

Jayson Toock, Director Business Development, Gold Spur Trucking LLC

5:00 Question & Answer Session

5.10 – 6.20 Networking Drinking Reception In Exhibition Showcase Area

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Day 2: Comparing Projected IP Rates and EURs in the Eagle Ford Wells to Recent Results and Analyzing Methods for Extending Reservoir Life

PROVIDING RESULTS OF SURVEILLANCE AND PRESSURE TESTS TO DETERMINE WELL PERFORMANCE IN THE EAGLE FORD AND METHODS TO EXTEND THE PRODUCTION CYCLE

PERFORMANCE IMPROVEMENT

11:30 Assessing Stimulation Design and Optimization in the Eagle Ford to Improve Well Performance
- Understanding the conceptual model for stimulation performance
- Examining the impact of single cluster and multi-cluster stimulation technique on performance
- Analyzing the impact of increased pump volume and production operations on fracture life and well performance in the Eagle Ford
Shawn Holthausen, Senior Production Technologist, Shell E&P

12:00 Question & Answer Session

12:10 Lunch in The Exhibition Showcase Area

ARTIFICIAL LIFT SYSTEMS

1.10 How Artificial Lift Systems Are Being Used in the Eagle Ford to Maximize Well Longevity and Optimize Oil and Gas Recovery
- Understanding artificial lift options for the Eagle Ford, hot to choose among them and ways to optimize each methods
- Examining industry efforts to enhance artificial lift knowledge and selection methods
- Using production automation to improve well longevity and optimize oil and gas recovery
- Analyzing a new Petroleum Industry initiative to advance knowledge of horizontal well oil and gas flow and recovery
Cleon L. Dunham, President, Artificial Lift R&D Council

1.40 Question & Answer Session

ANALYZING TRENDS AND PATTERNS IN THE EAGLE FORD’S SERVICE AND EQUIPMENT SUPPLY MARKET TO PLAN AHEAD FOR ANY CONSTRAINTS OR SHORTAGES

EQUIPMENT CONSTRAINTS: PANEL

1.50 Debating the Most Pressing Supply Base Challenges in the Eagle Ford Due to Redistribution Towards Oil-Rich Windows Across Texas
- Comparing year-on-year differences in the amount of well site service companies in South Texas to identify key trends and patterns for 2013
- Examining which equipment, tools and skills are most in demand in the Eagle Ford to map out long term recruitment and partnership strategies
- Clarifying what percentage of services and equipment comes from local or global markets to calculate their cost in relation to quality and transportation time
- Forecasting the biggest problems facing the Eagle Ford’s supply chain to convert them into opportunities
Panelists: Bryan Stewart, Reservoir Engineer, Lucas Energy
Cleon L. Dunham, President, Artificial Lift R&D Council
Facilitated by: Charles Cusack, VP Exploration, BHP Billiton

2.20 Question & Answer Session

CONTRACTOR ECONOMICS

2.30 Determining Key Methods to Handle New Workforce in the Field to Enable Better-Informed, Economically Conscious Decisions When Utilizing Contractors
- Explaining methods of hiring new staff and the processes implemented to ensure their safe and flexible start on-site
- Minimizing contract risks with outsourced staff to avoid and costly errors
- Understanding how contractors are graded to develop work ethics and guarantee smooth running of the operations on- and off-site
- Examining how decisions regarding changing contractors are made
Richard Brown, HSE Engineer, Newfield Exploration

3.00 Question & Answer Session

3.10 Afternoon Refreshments in Exhibition Showcase Area

RESERVOIR MODELING

3.40 Analyzing Shale Gas Correlation to Klinkenberg Slip Theory for Reservoir Flow Modeling and Simulation
- Re-visiting Klinkenberg slip correlation to permeability measurement
- Identifying new molecular considerations for the slip correlation in organic-rich shales with nano-capillaries
- Learning the concepts of double-slip permeability and molecular streaming in shale
- Analyzing and quantifying the molecular streaming effect on shale permeability using DU’s Double-slip Klinkenberg Chart
- Understanding how to interpret crushed permeability measurements using the Double-slip Klinkenberg chart
- Updating reservoir permeability model for accurate gas flow simulation and production using double-slip permeability equation
I. Yucel Akkutlu, Associate Professor, University of Oklahoma

4.10 Question & Answer Session

PROVIDING COST-BENEFIT ANALYSIS OF THE MOST INNOVATIVE GEOLOGICAL AND PETROPHYSICAL TOOLS USED TO IDENTIFY SWEET SPOTS IN THE EAGLE FORD

THICKNESS CHANGES

4.20 Examining Eagle Ford’s Reservoir Characterization to Achieve Maximum Reservoir Coverage During Stimulation
- Explaining the process of converting curvatures and spectrum decomposition into a seismic model to create an accurate subsurface map with clear distinctions between layers
- Understanding how facies and lithologies have developed in the Eagle Ford to determine the richest hydrocarbon layers
- Examining how thickness changes in the Eagle Ford influence completions choices and the number of frac stages
- Analyzing alternative methodologies for predicting thickness changes in the Eagle Ford without spending time and money on seismic interpretation
Dr. Saireldia Mahapatra, Sr. Geophysicist, CAMAC Energy Inc.

4.50 Question & Answer Session

5.00 Close Of Conference

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