

Mississippian Formation Summit

New Opportunities for Exploration & Infrastructure Development

November 28-29, 2012 | Renaissance Tulsa Hotel & Convention Center | Tulsa, OK

Post-Summit Briefing: Kansas Oil Boom Water Management

Thursday, November 29, 2012 | 12:30 – 5:00 p.m.

- 12:30 – 1:30 *Registration for Post-Summit Briefing*
- 1:30 – 1:35 *Opening Remarks by Post-Summit Briefing Chair*
- 1:35 – 2:05 *Presentation:*
SOURCING WATER LOCALLY FOR HYDRAULIC FRACTURING
Since hydraulic fracturing uses millions of gallons of water – typically between two to four million per well – and since water is a precious commodity in the region, it's important for drillers to be both creative and responsible when sourcing water. In this session, learn about some of the options companies are using to get the water they need.
*Creeks, ponds, rivers: what's available?
*Lake evacuating projects: current status
*Other sources of water

Daniel Coltrane, *Water Resources Manager, SHAFER KLINE & WARREN INC.*
- 2:05 – 2:35 *Presentation:*
WATER WELL DRILLING
Water drilling companies are working furiously to help meet demand. In this session, find out how new water drilling initiatives in the region are assisting oil drillers in getting water for fracking.

Presenter to be announced
- 2:35 – 3:05 *Presentation:*
STRATEGIES FOR MANAGING WATER: DIY VS. OUTSOURCING
Certain producers are spending significant resources to develop water capabilities and infrastructures in house, while others are outsourcing. Why? Key considerations include: Capital, Expertise, Operations, Suppliers, Competition, Legal Risks, and the Availability of Services

Johan Van Themaat, *Vice President for Investor Relations and Business Development, HIGH SIERRA ENERGY*
- 3:05 – 3:30 *Networking Break*

3:30 – 4:00

Presentation:

HOW TO MINIMIZE THE AMOUNT OF WATER NEEDED FOR FRACKING

In this session, learn about:

- *Factors for determining the most feasible source of freshwater
- *What are the challenges associated with water sourcing and how are they most cost-effectively overcome?
- *How to evaluate whether the water needs any treatment before use – and if so, how much treatment is needed?
- *Various means of recycling and how they can reduce the need for freshwater

Presenter to be announced

4:00 – 4:30

Presentation:

WATER SALINITY IN THE MISSISSIPPIAN FORMATION AND ITS POTENTIAL IMPACT ON PRODUCTION

In this session, learn about about the characteristics of the Mississippian, especially the salt content, and the potential effects it can have on your flowback and production.

Greg Frame, *Technical Manager*, DRILLING FLUIDS TECHNOLOGIES

4:30 – 5:00

Presentation:

OILFIELD WATER: THE PATH TO 100% RECYCLE AND REUSE

Water is the oldest and newest oilfield industry challenge. In this session, learn about:

- *Unique frac flowback water challenges: all waters aren't created equal
- *The use of high TDS water for customized frac fluids
- *Bacterial control in rapidly changing waters

Tom Whalen, *Vice President, Water Management*, BAKER HUGHES

5:00

Workshop Adjourns