

xHPHT

How will we work under
pressure?

Can we take the heat?

How High is High?

- What is the highest anticipated Pressure?
- What is the highest anticipated Temperature?
- What is the highest pair?

Introduction

Let's Consider:

- Properties
- Fluid Behavior
- Flow Modeling
- Chemicals
- Fouling
- Corrosion

Thermodynamic Properties

- Measurement
- Prediction
- Non HC Component Effects

Transport Properties

- Viscosity
- Emulsion effects
- Foam effects

Water – Oil Relationship

- Surface effects
- Dispersion
- Interaction
- Corrosion

Flow Modeling

- HIPPS Design
 - PVT and Flow Models?
 - Accuracy acceptable?

Inhibitors

- Performance
- Qualification
- Stability and Transport

Sampling

- Downhole equipment
- Transport
- Storage

Fouling

- Asphaltenes
- Wax
- Hydrates
- Scale

Corrosion

- Do we understand HPHT effects?

Conclusion

- In a nutshell, do we fully understand the impact of these concerns at xHPHT conditions? What are they?
- What needs to be addressed now?
- What doesn't need to be addressed?
- What are the consequences of not "getting it right"?

Discussion Topics

Reminder:

- Properties
- Fluid Behavior
- Flow Modeling
- Chemicals
- Fouling
- Corrosion