

# Challenges of Cold Heavy Oil Production in Western Canada

Presented by  
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## **ABSTRACT:**

Western Canada has unique challenges producing cold heavy oil production (CHOPS) as compared to the rest of the world. No other area has the same combination of:

- High viscosity oil: 10,000 cp to > 100,000 cp
- Low temperature oil: 25 degrees Celsius
- Low API gravity oil: 10.0 to 12.0 degrees API
- Encouragement of sand production

This presentation will cover:

1. Brief comparison of heavy oil reservoirs throughout the world
2. Detailed review of Western Canada heavy oil reservoirs
3. Specific challenges and solutions of producing cold heavy oil production in Western Canada
4. Remaining challenges

## **BIOGRAPHY:**

Education:

1978, University of Manitoba, Bachelor of Science (Mechanical Engineering)

Employment:

Texaco Canada/Imperial Oil

1978 to 1984: Production Engineering medium oil and gas in Red Deer

1984 to 1990: Supervisor Economic evaluations in Calgary

1990 to 1994: Supervisor Exploitation in Calgary

1994 to 1997: Production Coordinator for medium oil and sour gas in Fort St John, BC

1997 to 1998: Production Coordinator for start-up heavy oil operation in Fishing Lake, AB.

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1998 to present: Production Coordinator heavy oil in Lloydminster