

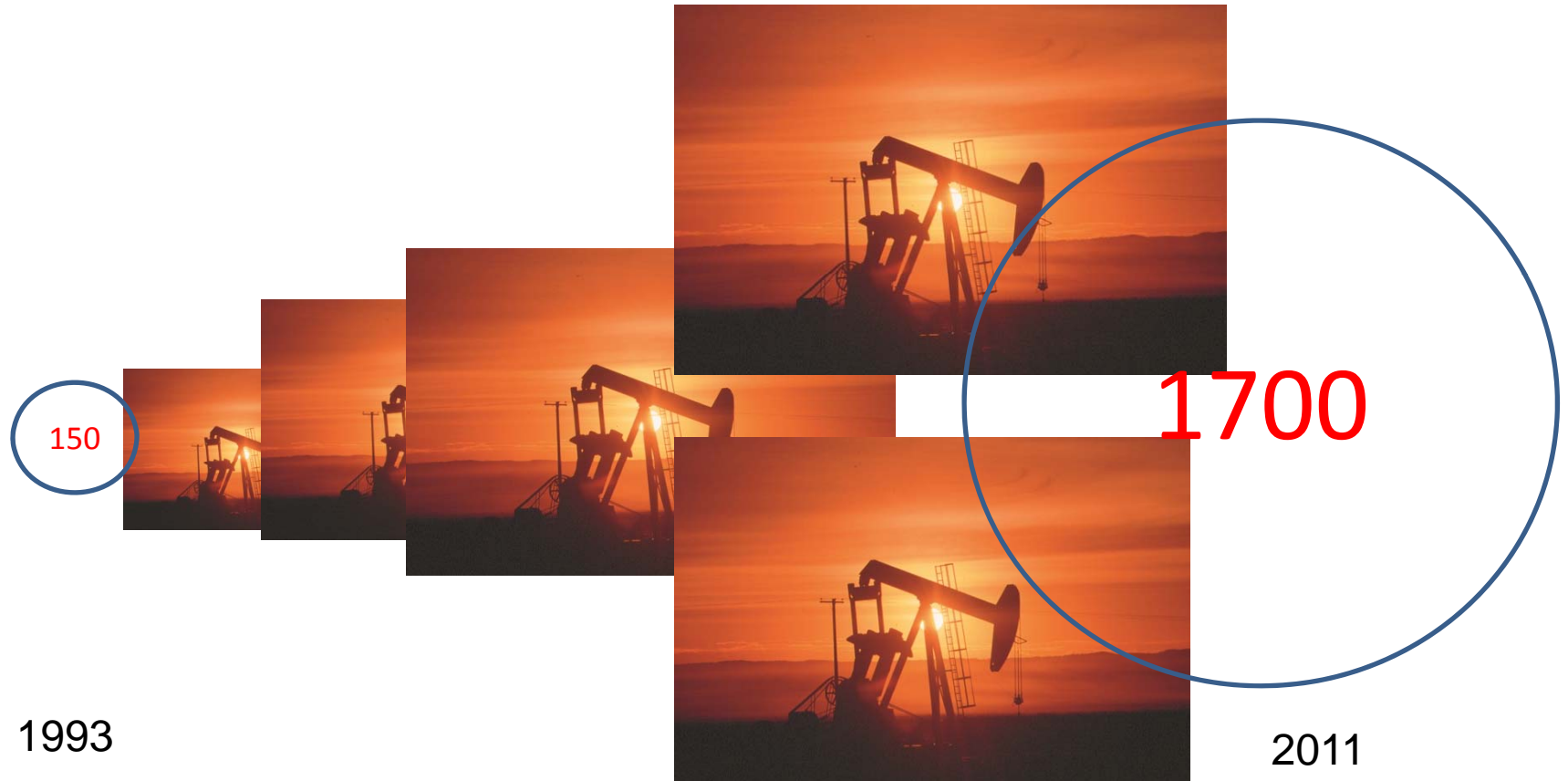


Welcome

PTRC, STEPS and EOR in the Williston Basin

Dr. Malcolm Wilson Executive Director
Petroleum Technology Research Centre

The History of the WBPC



Sustainable Technologies for Energy Production Systems



A Business-Led Network of Centres of Excellence



**Saskatchewan
Ministry of
Energy and
Resources**



Current STEPS Focus Areas

Heavy Oil

- Beyond CHOPS
- Input – Output costs
- Understanding of Reservoir mechanisms

Bitumen

- Thermal is future
- Thin zones
- In situ methods

Light-Medium Oil

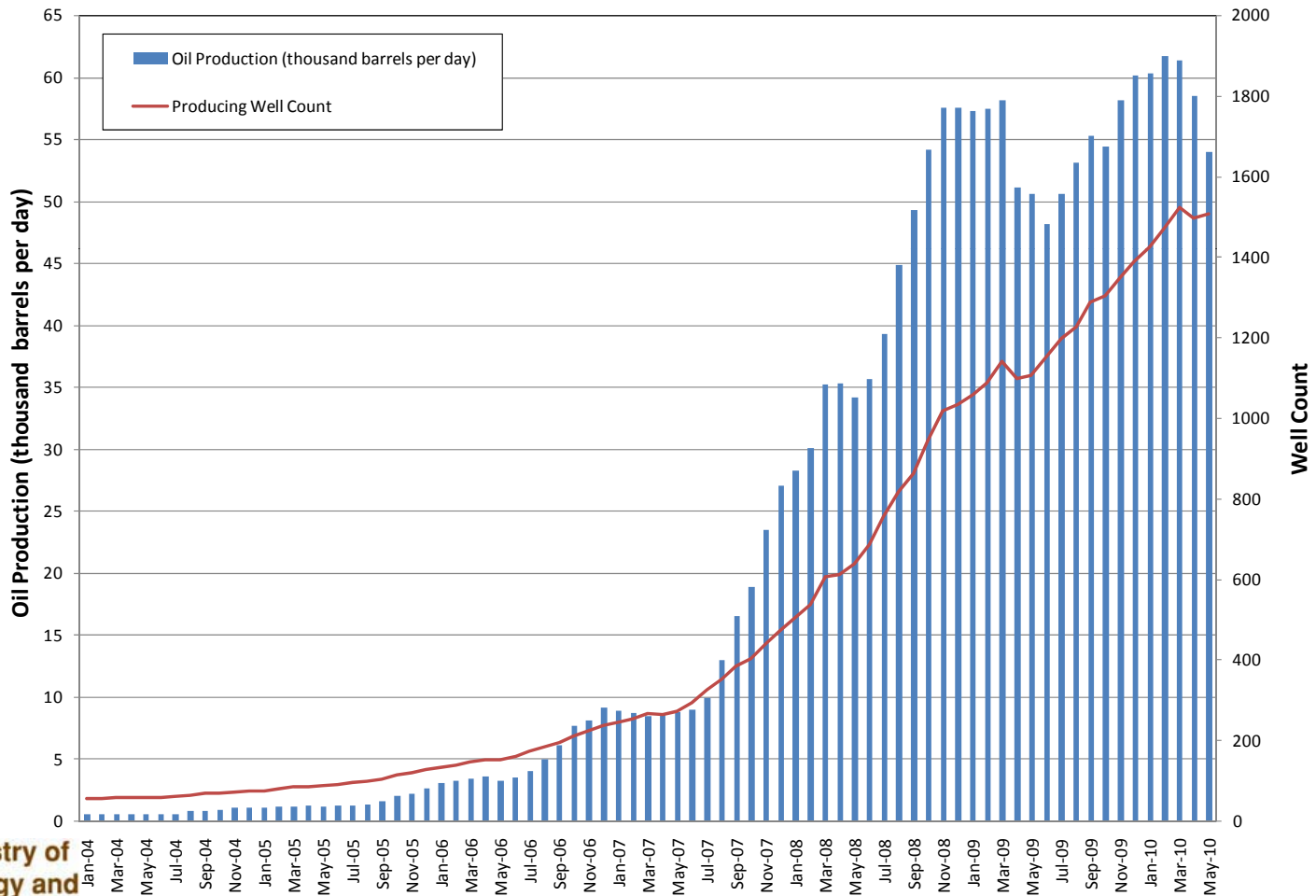
- Unconventional tight
- CO₂
- ASP, polymer, microbial

Enabling Technologies

- Future hydrocarbon resources: oil shales

Bakken Production

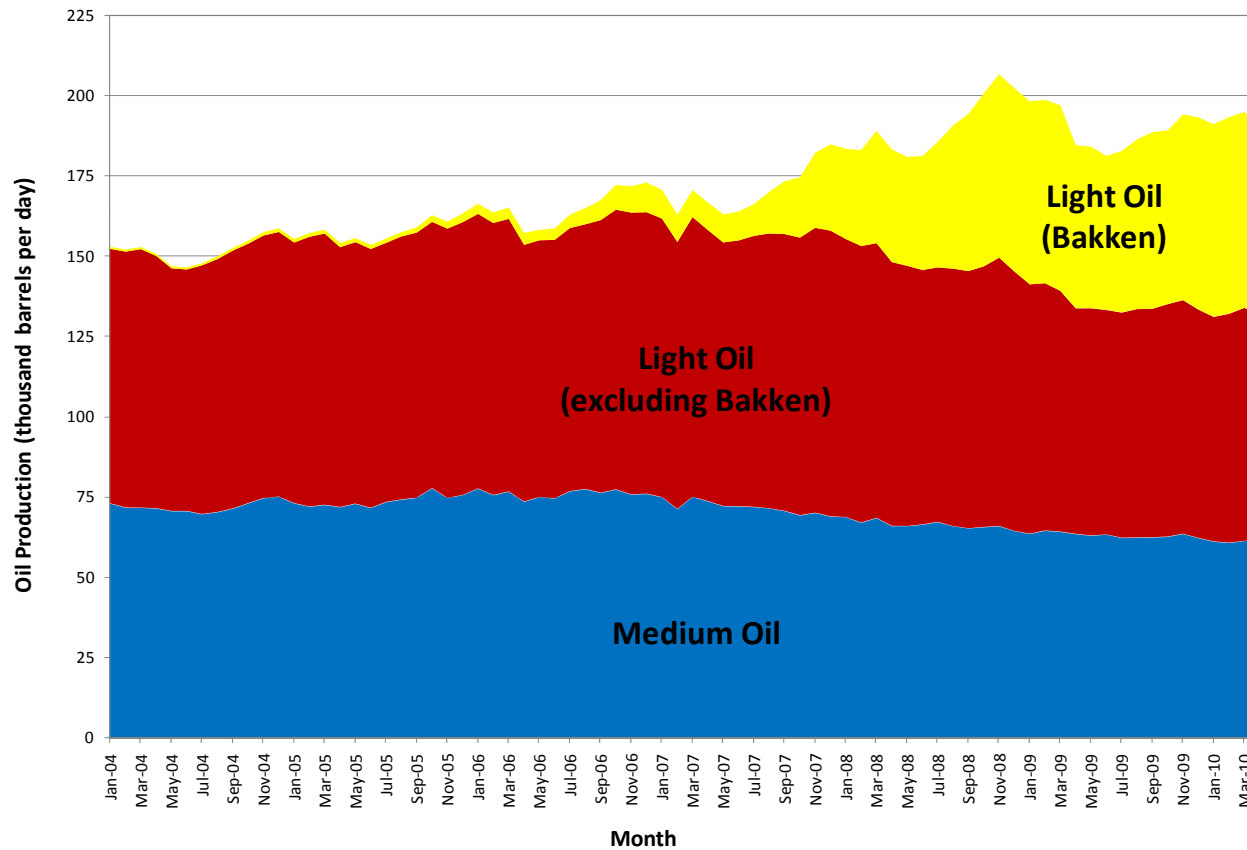
**SOUTHEAST SASKATCHEWAN BAKKEN
OIL PRODUCTION AND PRODUCING WELL COUNT**



**Ministry of
Energy and
Resources**

Bakken Production as Part of Saskatchewan Total

SOUTHEAST SASKATCHEWAN OIL PRODUCTION



Technical Challenges of the Bakken

- Lithology: Understanding how the formation changes across the Williston Basin
- Best directions for horizontal drilling
- Identifying the presence and extent of the natural fracture network
- Improving hydraulic fracturing techniques
- Improving reservoir simulation techniques

What STEPS Can Do for the Williston Basin

- Leverage, dollar for dollar, federal and provincial money to conduct research that companies themselves can help direct.
- Small-to-medium enterprises are now a target of STEPS, with new potential funding to help smaller companies conduct research or take new technologies to the field.
- Talk to us about what your challenges are.

BOOTH 182

PTRC STEPS

Reception Room:

Queensbury

Convention Centre,

2nd floor,

Conference Room 6

