

• TIPS

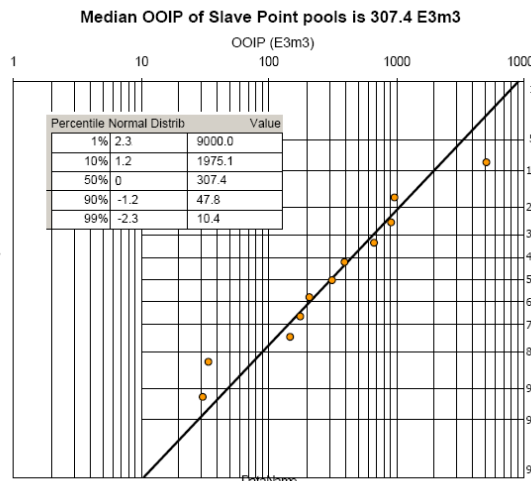
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[\(Printable Version\)](#)

Main Article	1
Company News	1
Upcoming Events	1
Did You Know?	2
Tips & Tricks	2
Metro Petro	2

## Use of Log Normal Distribution in Reservoir Parameter Analysis

The log normal distribution is a probability distribution derived from the normal distribution. The log normal distribution is an important tool as it can model variables that are multiplicative products of independent variables. For example, the OOIP in a reservoir is the multiplicative product of porosity, oil saturation, and reservoir volume. Since  $F$ ,  $S_o$  and  $V$  are independent reservoir properties, OOIP can be



A study of OOIP's determined by the AEUB for Slave Point pools in a 2 Township area revealed a median of 307.4 E3m3. The median lies at the 50% probability or confidence level. The analysis also indicates important information such as Slave Point pools in this area having an OOIP of at least 50

modeled with a log normal distribution.

E3m3

with a 90% probability.

~John Yeo

### Upcoming Events

Feb. 13, 2007  
 CWLS Annual General Meeting  
 Calgary, Alberta  
[www.cwls.org](http://www.cwls.org)

Feb. 15, 2007  
 APEGGA Technical Luncheon  
 Calgary, Alberta  
[www.apegga.org](http://www.apegga.org)

### Company News

We are pleased to announce the appointment of Inder Minhas as one of our technical sales representatives!

Inder was born in Punjab, India, but has lived here in

Canada since he was 12 years old.

Inder has studied marketing, and is currently studying petroleum land administration. He says that he hopes to move into management in

the future.

He has experience working as an H2S specialist, as well as in banking.

In his spare time, Inder likes to work out and enjoys playing soccer.

## Tips & Tricks - Innovative Energies Technology Program

The Innovative Energies Technology Program (IETP) was developed to further the use of new technologies to incrementally increase the recovery factor for thermally-produced bitumen affected by a top gas zone. This program allows for royalty reductions, up to a maximum of \$10 million per project, to be made for innovative pilot projects that increase bitumen recovery



ery in the three Alberta oil sands regions (Athabasca, Cold Lake, and Peace River). Operators may apply to the EUB through the IETP to receive royalty reductions. The three major areas of research that are currently taking place and eligible for IETP royalty reductions are:

### Fluid Injection

There are currently several projects underway (i.e. EnCana @

Christina Lake) that utilize fluid injection to increase the top gas pressure for thermal bitumen projects. This process inhibits the flow of steam from the steam chamber to the top gas zone.

### Low Pressure SAGD

SAGD can be operated at low pressures, such that the injection pressure is only slightly above the top gas reservoir pressure thereby inhibiting steam breakthrough to the top gas zone.

### Artificial Lift

Artificial lift systems are being designed to increase the recovery factor due to the limited 'gravity drainage' effect that occurs in low-pressure SAGD operations.

~Dustin Jones

## Metro Petro



click on above image for larger view

### Did You Know?

#### Worldwide Oil Drilling

2006 saw more oil wells completed in North America as demand for consumer gasoline increases.

In Canada, the DOB reports that 22,171 wells were completed during 2006.

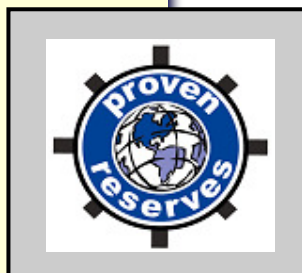
Meanwhile there were 49,375 wells drilled in the United States - over double the number drilled in Canada - according to the American

Petroleum Institute.

In total, there were 71,546 wells completed in North America during 2006.

Though demand for gasoline at the pump is still on the rise, experts say that demand for jet fuel - a large portion of the market - has dropped for the second year in a row (2005 and 2006). With these and other world-

wide trends, how many wells will be completed during 2007?



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