

**Monthly Progress Report – June 2003**  
**Gas Over Bitumen Technical Solution**  
**Industry & Government Collaboration**

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## **Artificial Lift**

### **E-Lift**

The draft scope was reviewed at a high level at the June 17, 2003 meeting. The group is assessing the need to conduct a field test in conjunction with a LP SAGD field test, in light of the fact that other artificial lift systems are not likely to allow testing LP SAGD at low sub cools.

### **High Volume SAGD Gear Pump**

The sub committee has prepared a scope for bench testing multiple systems. This will be considered further in conjunction with the LP SAGD Wellbore Architecture results.

### **Low Pressure SAGD Wellbore Architecture**

The participants met June 11, 2003 to review progress to-date, outstanding items, and next steps. There were some surprises regarding the cost implications of some of the alternatives. The producer group will meet within the next two weeks to review results to-date, and to discuss the potential scope of phase B. C-Fer will distribute a question sheet to prioritize the outstanding items to address.

## **Fluid Injection Technology**

### **Flue Gas Injection Project**

Flue gas injection has still not able to obtain continuous injection due to mechanical problems with the compressor. Operational problems are expected to be corrected.

## **Lateral and Vertical Pressure Communication**

### **Piezometer data**

The sub committee met on June 18, 2003 to discuss the outstanding questions to be sent to Thurber/Geokon to prepare its presentation regarding piezometer drift scheduled for the July meeting. The intent is to have a description of what operators need for pressure data gathering in this environment.

### **Injection Projects**

The sub committee continues to evaluate three potential re-injection pilots. One option is to move gas from one pool to another for re-pressurization. A second option is to conduct flue gas miscible flood after gas production. A third option is to inject water. The sub committee continues to define the scope and objectives of pilot options.

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Giant Grossmount presented a discussion paper for a methane re-injection pilot at Surmont, including the potential costs and financial alternatives. The sub committee members will consider the proposal and advance to preparing draft EUB applications.

## **Shut-in Data Gathering and Interpretation**

### **Interpretation**

Nothing new to report.

## **Low Pressure SAGD Performance**

### **Performance**

Ken Kisman made an informative presentation regarding the impact and importance of SAGD Steam Trap Sub Cool Issues at the June 17, 2003 meeting. Modeling of SAGD at low sub cools generally result in improved performance; especially considering that the producing wellbore will not have a uniform sub cool distribution. This needs to be demonstrated in a field test.

### **Field Testing**

Discussion of the draft scope for a LP SAGD field test at the June 17, 2003 meeting, resulted in a revision to consider a two step test. Possible locations are; Deer Creek Joslyn, Petro-Canada MacKay, Nexen Long Lake, and Devon Dover. These operators will report back at the July 24, 2003 meeting.

Additionally, members reported back on the potential to participate in the Deer Creek Joslyn proposal presented at the May 15, 2003 meeting. Conoco and Devon are interested. Petro-Canada is still considering. EnCana, Nexen, and CNRL will likely test on their own. Suncor's participation is dependent on its growth strategy, and if it include resources that depend on LP SAGD.