

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

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## **Artificial Lift**

### **E-Lift**

Rangewest Resources will make a presentation to the Artificial Lift Sub Committee on April 10, 2003 regarding multiple E-Lift designs to field test and fully demonstrate the application of E-Lift in low pressure SAGD operating conditions. This includes the scope of the tests for each operating scenario including the wellbore and facility requirements, monitoring requirements, timing, and estimated capex and opex. The intent is to advance a Joint Industry Project for field testing E-Lift.

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

EnCana and SP Technologies made presentations to the artificial lift sub committee on March 13, 2003, regarding a high volume SAGD gear pump. Members believe that the pump has merit in SAGD applications across a broad range of operating pressures. Members, however, raised a number of concerns regarding the impact to overall capital and operating costs associated with the hydraulic drive system. The sub committee will address the scope of solving these concerns and potential bench scale testing before considering field testing of the system.

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

C-Fer is currently considering the merits of three wellbore architecture concepts and three wellbore operational concepts. The intent of this project is to develop new SAGD wellbore architectures that will guarantee a liquid interface at the pump intake for existing artificial lift systems.

CNRL has joined the JIP, increasing participation to 8 members.

## **Fluid Injection Technology**

### **Flue Gas Injection Project**

Draft EUB approval is in place for the Christina Lake flue gas injection project operated by Devon. Operations still need to spot 10 more meters of cement in the wellbore to ensure cement top above the oil sands section. EUB G51 approval will be given once this workover is complete and details regarding monitoring of down hole corrosion are finalized. Devon expects start up by April 15, 2003. Devon expects to apply for amendment for miscible flood once injection operations are proceeding.

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## **Lateral and Vertical Pressure Communication**

### **Piezometer data**

EnCana and Petro-Canada will be presenting instrument installation and data interpretations at the sub committee's April meeting.

### **Injection Projects**

The sub committee is meeting in April to prioritize re-injection pilots in order to focus on the best projects. This will include possible interference tests prior to conducting the pilot.

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

### **Data Base Cleanup**

The clean up of the pressure data on the wells shut-in from D2000-22 and D2001-64 was completed March 27, 2003.

### **Interpretation**

The sub committee continues to discuss 3<sup>rd</sup> party analysis and interpretation. The group will first develop an understanding of what issues and interpretations all parties agree on, and which they don't agree on. This will develop the potential scope of 3<sup>rd</sup> party analysis and interpretation

## **Low Pressure SAGD Performance**

### **Performance**

Bob King from Petro-Canada is now the Chair of the Low Pressure SAGD sub committee.

The sub committee is preparing digital data from simulation work presented by N. Edmunds on low pressure SAGD performance, including, CDOR and SOR, over operating pressures of 500, 1000, and 1500 kPa.

### **Field Testing**

The sub committee has developed a list of opportunities to conduct a field test of steam-solvent low pressure SAGD. The group has agreed that this initiative requires aggressive action.

## **Outstanding**

### **Press release**

Press release is with the ADOE Department Communication Branch.