



BDS Consulting  
Box 963  
Viriden MB R0M 2C0  
P: (204)851-5822

Manitoba Petroleum Branch  
Box 1359 – 227 King Street  
Viriden, MB R0M 2C0  
Attention: Jennifer Abel

July 22, 2011

**Re: Black Gold Energy Ltd 02-27-08-28W1 Battery Application**

Enclosed, please find the required documentation as per Section 75(1) of the Drilling and Production Regulations.

If you have any questions or concerns regarding this application please contact Bruce Dunning (204)851-5822 or [bdunning@mts.net](mailto:bdunning@mts.net).

**1. Application Fee and Levy**

A cheque in the amount of \$1000.00 payable to the Minister of Finance will be submitted under separate cover.

**2. Performance Deposit**

As per Paulette Seymour no additional performance deposit is required to obtain this battery operating permit.

**3. Survey Plan**

A digital copy of the survey plan of the battery location is attached.

**4. Landowners and Occupants**

A list of landowners and occupants within 1.5km of the proposed battery location, a radius map and a sample consultation letter are attached. A summary of the consultations will be submitted upon completion.

**5. Wells to be Tied in**

The following wells will be tied-in to the proposed battery at 02-27-08-28W1:

- 15-22-08-28
- 02-27-08-28
- 16-27-08-28

**6. Anticipated Production Rates**

The anticipated flow rates entering the 02-27-08-28 battery are:

Oil: 3.0 m3/d

Water:7.0 m3/d



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Gas: 21 m<sup>3</sup>/d All gas will be vented.

### **7. Gas Analysis**

Due to low gas volume at these wells, Black Gold is proposing to use the same gas criteria as was used in support of their 12-33-08-28 battery application (copy on file with Petroleum Branch). GOR – 3 and H<sub>2</sub>S - 0.003%.

### **8. Process Vessels**

There will not be any process vessels used at this battery. The battery will consist of an inlet header and production tanks.

### **9. Well Testing**

Each well will be tested via test tank.

### **10. Flare and Vapour Recovery**

There will be no flare or vapour recovery system at the battery.

### **11. Venting**

All gas produced to the site will be vented directly from the 6m high emulsion tank vents.

### **12. Air Dispersion Modeling**

Air dispersion modeling results have been included. The H<sub>2</sub>S concentration has been increased by 100 fold so that the Screen 3 modeling software can produce an output. At the production rate of 3 m<sup>3</sup>/d with a GOR of 3 m<sup>3</sup>/m<sup>3</sup>, an H<sub>2</sub>S concentration of 0.3% and a stack height of 6m, the maximum 1 hour concentration of H<sub>2</sub>S is 1.899µg/m<sup>3</sup> at 52m. This meets the guidelines for H<sub>2</sub>S emissions.

### **13. Plot Plan/Flow Diagram**

A digital copy of the plot/flow schematic is attached.

### **14. Water Disposal**

The produced water will be trucked to 12-33-08-28 Battery for disposal.