



1120-6th Street
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Manitoba Petroleum Branch
Box 1359 – 227 King St West
Virden, MB R0M 2C0

October 21, 2016

Attention: Barb Johnston

Re: Fire Sky Energy Inc 03-23-012-27W1 Battery Application

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

If you have any questions or concerns regarding this application please contact Tom Copeland at (306)637-6223 or tcopeland@fireskyenergy.ca.

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 Dan Surzyshyn no additional performance deposit will be required to obtain this battery operating permit.

3. Survey Plan

Survey plans of the battery location are enclosed as Attachment 1.

4. Landowners and Occupants

There were no objections expressed by any of the landowners within 1.5 km of the proposed site. Copies of the consultation letters are enclosed as Attachment 2.

5. Wells to be tied in

The following wells will be flow lined to the proposed battery:

- 100/16-14-012-27W1.00
- 100/12-20-012-27W1.00
- 100/05-21-012-27W1.00
- 100/09-21-012-27W1.00
- 100/16-21-012-27W1.00
- 100/12-24-012-27W1.00
- 100/14-24-012-27W1.00



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6. Anticipated Production Rates

The anticipated flow rates entering the 03-23-012-27W1 battery are:

Oil:	150 m ³ /d
Water:	1500 m ³ /d
Gas:	750 m ³ /d (based on a GOR of 5:1)

7. Gas Analysis

Copies of representative gas analyses for this area are included as Attachment 3.

8. Process Vessels

There will be no process vessels installed at this time. The oil tanks will be equipped with inline electric circulating heaters. Future installation of any process vessels will be addressed through a Battery Modification Application.

9. Well Testing

Each well will be tested via meters and continuous random samplers in compliance with section 69 of the Drilling and Production Regulation.

10. Flare and Vapour Recovery

Due to the H₂S content (0.056 mf) all gas vapours will be collected through a VRU and flared through a low pressure 12.2m x 76.2mm flare stack. The flare is designed for 2000 m³/d smokeless flow rate and will be equipped with a constant pilot and auto-ignition system as well as a FKO.

11. Venting

Under normal operating conditions there will be no gas vented at this battery.

12. Air Dispersion Modeling

Air dispersion modeling results are enclosed as Attachment 4. The maximum concentration of SO₂ is 115 µg /m³ at 255 m. This meets the requirements of 85.2(1) of the Drilling and Production Regulation.

13. Plot Plan/Flow Diagram

Copies of plot and flow schematics are enclosed as Attachment 5.

14. Water Disposal

All produced water will be disposed of at the proposed 14-14-012-27W1 SWD.