

**Montana Board of Oil and Gas Conservation  
Environmental Assessment**

Operator: Big Snowy Resources, LP  
Well Name/Number: Can Am #4 West Kelly  
Location: SE SE NW Section 26 T3S R24E  
County: Yellowstone, MT; Field (or Wildcat) Mosser Dome

**Air Quality**

(possible concerns)

Long drilling time: No, 3 to 4 days drilling time.  
Unusually deep drilling (high horsepower rig): No, 670' TD  
Possible H2S gas production: No  
In/near Class I air quality area: No  
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211.

Mitigation:

- Air quality permit (AQB review)
- Gas plants/pipelines available for sour gas
- Special equipment/procedures requirements
- Other: \_\_\_\_\_

Comments: No special concerns – using small rig to drill to 670' TD.

**Water Quality**

(possible concerns)

Salt/oil based mud: No, freshwater or freshwater mud system and/or air.  
High water table: No  
Surface drainage leads to live water: No, surface drainages nearby.  
Water well contamination: No, water wells close by. If productive 4 1/2" production casing will be cemented to surface. Closest water well is 1/2 mile to the southwest and is a 450' deep well.  
Porous/permeable soils: No, sandy silty bentonitic soils.  
Class I stream drainage: No

Mitigation:

- Lined reserve pit
- Adequate surface casing
- Berms/dykes, re-routed drainage
- Closed mud system
- Off-site disposal of solids/liquids (in approved facility)
- Other: \_\_\_\_\_

Comments: 20' of surface casing cemented to surface adequate to protect freshwater zones. Also, air and/or fresh water mud systems to be used. 4 1/2" production casing will be cemented.

**Soils/Vegetation/Land Use**

(possible concerns)

Stream crossings: No, crossing.  
High erosion potential: No, no cut and no fill required, self leveling drilling rig.

Loss of soil productivity: No, location will be restored after drilling in nonproductive and if productive unused portion of the drillsite will be reclaimed.

Unusually large wellsite: No, 100'X100' location size required.

Damage to improvements: No, surface use is a cultivated field.

Conflict with existing land use/values: Slight

Mitigation

Avoid improvements (topographic tolerance)

Exception location requested

Stockpile topsoil

Stream Crossing Permit (other agency review)

Reclaim unused part of wellsite if productive

Special construction methods to enhance reclamation

Other \_\_\_\_\_

Comments: Surface access will be over existing county roads and existing oilfield well access roads. Cuttings will be buried in the earthen pit. Fluids will be allowed to evaporate. Pit will be backfilled when dry. No special concerns

### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Yes, within 1/4 mile of wellsite. Rawhouser home and ranch.

Possibility of H2S: None

Size of rig/length of drilling time: Small drilling rig/short 3 to 4 days drilling time

Mitigation:

Proper BOP equipment

Topographic sound barriers

H2S contingency and/or evacuation plan

Special equipment/procedures requirements

Other: \_\_\_\_\_

Comments: Wahinton Rotating control Diverter head Model 3022 Diverter will be used instead of a BOP. This is due to the area being high drilling density to the Greybull formation and bottom hole pressure being depleted from production. No concerns.

### Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: None identified.

Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No

Threatened or endangered Species: None identified.

Mitigation:

Avoidance (topographic tolerance/exception)

Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite

Other: \_\_\_\_\_

Comments: Private surface lands. No concerns.

**Historical/Cultural/Paleontological**

(possible concerns)

Proximity to known sites: None identified

Mitigation

avoidance (topographic tolerance, location exception)

other agency review (SHPO, DSL, federal agencies)

Other: \_\_\_\_\_

Comments: On private land. No concerns.

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**Social/Economic**

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: No concerns. Existing oil field, Mosser Dome Oil Field.

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**Remarks or Special Concerns for this site**

Well is a 670' Muddy Formation test.

**Summary: Evaluation of Impacts and Cumulative effects**

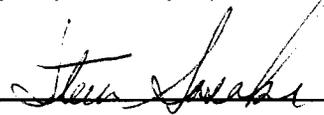
No long term impact expected. Some short term surface impacts will occur, but will be mitigated in time. Development well in an existing oil field, Mosser Dome Field.

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I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC): Steven Sasaki 

(title:) Chief Field Inspector

Date: December 13, 2007

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC

website

(Name and Agency)

Water wells in Yellowstone County

\_\_\_\_\_  
(subject discussed)

December 13, 2007

\_\_\_\_\_  
(date)

If location was inspected before permit approval:

Inspection date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Others present during inspection: \_\_\_\_\_