

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

**Operator:** Omimex Canada, Ltd.  
**Well Name/Number:** Peterson 7-21-35N-5W  
**Location:** SW NE Section 21 T35N R5W  
**County:** Glacier, MT; **Field (or Wildcat)** Cut Bank

**Air Quality**

(possible concerns)

Long drilling time: No, 3 to 4 days.

Unusually deep drilling (high horsepower rig): No, small single derrick drilling rig, 1840' 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 1840' TD.

**Water Quality**

(possible concerns)

Salt/oil based mud: No, freshwater, freshwater mud system and air.

High water table: No

Surface drainage leads to live water: No, unnamed ephemeral tributary drainage to Big Rock Coulee, about 1/4 mile to the southeast of this location. Within this unnamed drainage is a stock pond, about 5/8 of a mile to the southwest of this location.

Water well contamination: No, all nearby freshwater wells less than 360' in depth. Closest water well is about 1/2 of a mile to the southeast of this location.

Porous/permeable soils: No, sandy 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: 500' of surface casing cemented to surface adequate to protect freshwater zones if any. Also, fresh water mud systems to be used.

**Soils/Vegetation/Land Use**

(possible concerns)

Stream crossings: None

High erosion potential: No, small cut, up to 0.7' and moderate fill, up to 10.9', required.

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

Unusually large wellsite: No, 200'X200' location size required.

Damage to improvements: Slight, location is about 60% grassland and 40% 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: Will use existing county road, Montana Power Camp Road. About ¼ of a mile of new access road will be made to access the drilling location. Drilling fluids will be disposed on in a private reservoir, with surface owners approval. Cuttings will be buried in the earthen pits. Pits will be backfilled when dry. No special concerns

### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Buildings about 0.5 miles to the southeast and 0.75 miles to the northeast of this location.

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: 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: Private surface lands. 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. Development well is an existing oil and gas field, Cut Bank Oil & Gas Field.

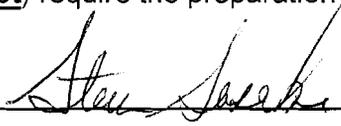
### Remarks or Special Concerns for this site

Well is a 1840' Bow Island Formation gas test.

### Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected, some short term impacts will occur, but can be mitigated. This well is in the Cut Bank field which has had oil and gas production since the 1930's.

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: October 23, 2007

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC  
website

(Name and Agency)

Glacier County water wells

(subject discussed)

October 23, 2007

(date)

If location was inspected before permit approval:

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

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

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