

Montana Board of Oil and Gas Conservation  
Environmental Assessment

Operator: Primary Petroleum Corporation  
Well Name/Number: Primary Tiber 11-9  
Location: NE SW Section 9T29N R4E  
County: Liberty, MT; Field (or Wildcat) Wildcat

**Air Quality**

(possible concerns)

Long drilling time no, 2 to 3 days drilling time  
Unusually deep drilling (high horsepower rig) no, 1280' TD  
Possible H2S gas production no  
n/near Class I air quality area no  
Air quality permit for flaring/venting (if productive) Yes, DEQ air quality permit required under rule 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 1190' TD

**Water Quality**

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system. Mainhole drilled with air and air/mist.  
High water table no  
Surface drainage leads to live water no, Closest drainage is an ephemeral drainage, Timber Coulee about 3/8 of a mile to the southeast.  
Water well contamination no  
Porous/permeable soils no, bentonite 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: 265' of surface casing cemented to surface adequate to protect freshwater zones and if productive 4 1/2" casing to be run back to surface. Air and air/mist to be used to drill the mainhole.

**Soils/Vegetation/Land Use**

(possible concerns)

Stream crossings none  
High erosion potential no, small cut, up to 0.9' and small fill, up to 3.8', 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, appears to be cultivation.

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: Access will be over existing county roads, Tiber Dam road and existing two track trails. About 3/4 of a mile of new access road will be built into this location off the existing two track trails. Cuttings will be buried in the unlined reserve pit. Drilling fluids will be land spread with surface owner approval or recycled to the next drilling location. Pit will be backfilled when dry.no special concerns

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### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences None nearby, nearest residence is 1.25 miles to the northeast of this location

Possibility of H2S none

Size of rig/length of drilling time Small drilling rig/short 2 to 3 days drilling time

Mitigation:

- Proper BOP equipment
- Topographic sound barriers
- H2S contingency and/or evacuation plan
- Special equipment/procedures requirements
- Other: \_\_\_\_\_

Comments: no concerns. Distance is sufficient to not be a problem with noise.

### Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified) n/a None identified.

Proximity to recreation sites Tiber Dam about 7 miles to the northeast of this location

Creation of new access to wildlife habitat no

Conflict with game range/refuge management no

Threatened or endangered Species no

Mitigation:

- Avoidance (topographic tolerance/exception)
- Other agency review (DFWP, federal agencies, DSL)
- Screening/fencing of pits, drillsite
- Other: \_\_\_\_\_

Comments: no concerns

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### 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

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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

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### Remarks or Special Concerns for this site

Well is a 1190' Bow Island Formation test

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### Summary: Evaluation of Impacts and Cumulative effects

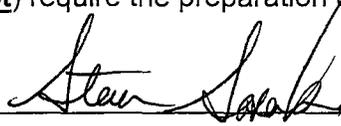
No long term impacts expected. Some short term impacts will occur, but can be mitigated in a short time.

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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: May 2, 2006

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Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

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(Name and Agency)

Liberty

(subject discussed)

May 2, 2006

(date)

If location was inspected before permit approval:

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

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

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