

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

Operator: G/S Producing  
Well Name/Number: Letang 1-34  
Location: NW NE Section 34 T34N R9E  
County: Hill, MT; Field (or Wildcat) Rudyard

**Air Quality**

(possible concerns)  
Long drilling time no, 2 to 3 days  
Unusually deep drilling (high horsepower rig) no, 850' TD  
Possible H2S gas production no  
n/near Class I air quality area no  
Air quality permit for flaring/venting (if productive) n/a

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 850'

**Water Quality**

(possible concerns)  
Salt/oil based mud no, freshwater and freshwater mud system.  
High water table no  
Surface drainage leads to live water no, closest drainage is an unnamed ephemeral tributary drainage to O'Brien Coulee.  
Water well contamination none nearby. All water wells within 1 mile of this location are less than 200' in depth.  
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: 200' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used.

**Soils/Vegetation/Land Use**

(possible concerns)  
Steam crossings no  
High erosion potential no, small cut, up to 0.1' and small fill, up to 1.1', 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.

Conflict with existing land use/values Slight, cultivated field.

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 used existing paved county road and short dirt road to access site. Short new access road will be built, about 800' of new access into this location.

No special concerns.

### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences Residences 3/4 of a mile to the northwest and southwest 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

### Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified) n/a

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 no

Mitigation:

Avoidance (topographic tolerance/exception)

Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite

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

Comments: 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

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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 850' Eagle formation test

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

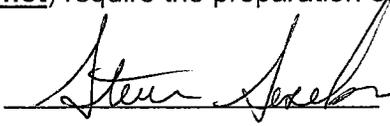
No long term impacts expected. Some short term impacts will occur, but will be mitigated in time.

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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: February 16, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC  
website.

(Name and Agency)

Hill County water wells.

(subject discussed)

February 16, 2006

(date)

If location was inspected before permit approval:

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

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

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