

Montana Board of Oil and Gas Conservation  
Environmental Assessment

Operator: J. Burns Brown Operating Company  
Well Name/Number: Rose Coulee 24-35-14F  
Location: NW SE Section 24T35N R14E  
County: Hill, MT; Field (or Wildcat) W/C

**Air Quality**

(possible concerns)  
Long drilling time no  
Unusually deep drilling (high horsepower rig) no, 2500' 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 2500'

**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, note that an unnamed coulee is north 1/4 mile away from location, appears to be an ephemeral drainage.  
Water well contamination none nearby, closest listed water well 1 1/4 mile to the east.  
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: 150' 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 and fill required.  
Loss of soil productivity no, location will be restored after drilling  
Unusually large wellsite no, 200'X200' location size required.  
Damage to improvements no.  
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: no special concerns

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### Health Hazards/Noise

(possible concerns)  
Proximity to public facilities/residences None nearby, closest residence 1 ¼ mile to the east of location.  
Possibility of H2S none  
Size of rig/length of drilling time Small drilling rig/short 4 to 5 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 no  
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 2500' Greenhorn formation test

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

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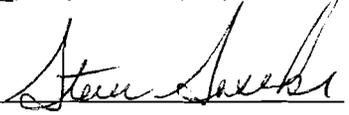
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I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of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

Prepared by (BOGC): Steven Sasaki  
 (title:) Chief Field Inspector  
 Date: September 21, 2004



Other Persons Contacted:

\_\_\_\_\_

(Name and Agency)

\_\_\_\_\_

(subject discussed)

\_\_\_\_\_

(date)

If location was inspected before permit approval:

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

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

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