

DEPARTMENT OF NATURAL RESOURCES
AND CONSERVATION
BOARD OF OIL AND GAS CONSERVATION

BRIAN SCHWEITZER, GOVERNOR

OIL AND GAS CONSERVATION DIVISION



STATE OF MONTANA

December 31, 2007

Mr. Todd Everts
Environmental Quality Council
Room 106, State Capitol
Helena, MT 59620

RECEIVED

JAN 03 2008

LEGISLATIVE ENVIRONMENTAL
POLICY OFFICE

Re: Environmental Assessment Reports

Dear Todd:

Enclosed please find a copy of the environmental assessments completed by this office covering the period from October 1 through December 31, 2007 with regard to applications for permits to drill oil or gas wells on state and privately owned lands in the State of Montana.

Let us know if you require any further information.

Sincerely,

Thomas P. Richmond
Administrator

km

Encs. 150

DIVISION OFFICE
1625 ELEVENTH AVENUE
PO BOX 201601
HELENA, MONTANA 59620-1601
(406) 444-6675

TECHNICAL AND
SOUTHERN FIELD OFFICE
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102-4693
(406) 656-0040

NORTHERN FIELD OFFICE
201 MAIN STREET
PO BOX 690
SHELBY, MONTANA 59474-0690
(406) 434-2422

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

Operator: G/S Producing
Well Name/Number: Berge 1-10
Location: S/2 SE Section 10 T33N R9E
County: Hill, **MT;** **Field (or Wildcat)** Rudyard

Air Quality

(possible concerns)

Long drilling time: No, 7 to 10 days drilling time.

Unusually deep drilling (high horsepower rig): No, 3500' TD

Possible H2S gas production: Yes, slight.

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 3500' TD.

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, about 1/8 of a mile to the east of this location.

Water well contamination: No, no water wells nearby. All water wells within 1 mile of this location are less than 200' in depth. Closest water wells are about 3/4 of a mile to the southwest of this location in section 15. Surface hole will be drilled with freshwater and surface casing set to 200' and cemented to surface.

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: 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)

Stream crossings: No crossings.

High erosion potential: No, small cut, up to 1.3' and small fill, up to 1.4', 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, Rudyard road and short section line road. A short new access road will be built from the short section line dirt road into this location, about 900' of new access into this location. No special concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Residences ¾ of a mile to the southwest, 1 mile to the northwest and ½ mile to the northeast of this location..

Possibility of H2S: Yes, slight

Size of rig/length of drilling time: Small drilling rig/ 7 to 10 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: None identified.

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

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: No concerns. Existing gas field, Rudyard Gas Field.

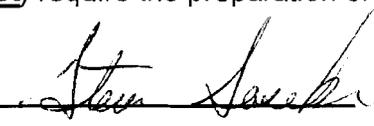
Remarks or Special Concerns for this site

Well is a 3500' Sawtooth formation test. A development well in the Rudyard Gas Field.

Summary: Evaluation of Impacts and Cumulative effects

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

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 1, 2007

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website.

(Name and Agency)

Hill County water wells.

(subject discussed)

October 1, 2007

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

10-1-18
10-1-18
10-1-18