

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

**Operator:** Saga Petroleum, LLC  
**Well Name/Number:** Schleiderer 6-10R  
**Location:** SE NW Section 10 T7S R21E  
**County:** Carbon, **MT;** **Field (or Wildcat)** Dry Creek

**Air Quality**

(possible concerns)

Long drilling time: No, 10 to 15 days drilling time.

Unusually deep drilling (high horsepower rig): No, 4900'TVD.

Possible H<sub>2</sub>S 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 double rig to drill to 4900' TD

**Water Quality**

(possible concerns)

Salt/oil based mud: yes, freshwater and freshwater mud system on surface hole and mainhole.

High water table: No

Surface drainage leads to live water: No, closest drainage is an unnamed ephemeral tributary drainage to North Fork Dry Creek, about 1/8 of a mile west of this location.

North Fork Dry Creek is about 3/8 of a mile to the south of this location.

Water well contamination: No, deepest well nearby is 82' deep. All water wells nearby are at least 1 mile away from this location. Surface casing will be set at 200'. Drilled with freshwater and freshwater muds. Surface casing will be run and cemented to surface from 200'.

Porous/permeable soils: No, variable 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.

**Soils/Vegetation/Land Use**

(possible concerns)

Stream crossings: No, crossing.

High erosion potential: No small cut, up to 4.6' and small fill, up to 3.4', 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: N, 195'X125' location size required.

Damage to improvements: Slight

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, Dry Creek Road and existing well access road for the 6-10 wellsite. Cuttings will be buried in the earthen pits. Fluids will be allowed to dry in the pit. Pits will be backfilled when dry. No special concern.

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### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest buildings are ¼ of a mile to the south, 1 mile to the east and Northwestern Energy Company compressor site 5/8 of a mile to the northwest of this location.

Possibility of H2S: None

Size of rig/length of drilling time: Double drilling rig/short 10 to 14 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: On private land. 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.

**Social/Economic**

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: No concerns

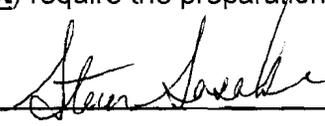
**Remarks or Special Concerns for this site**

Well is a 4900' TD Frontier formation test. Development well in the Dry Creek Gas Field.

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

No long term impact expected, some short term impacts will occur.

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: June 16, 2008

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Carbon County water wells

(subject discussed)

June 16, 2008

(date)

If location was inspected before permit approval:

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

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

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