

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

**Operator:** Devon Energy Production Company, LP  
**Well Name/Number:** Vercruyssen 19-6A  
**Location:** SE NW Section 19 T31N R19E  
**County:** Blaine, **MT;** **Field (or Wildcat)** Tiger Ridge

**Air Quality**

(possible concerns)

Long drilling time: No, 3 to 4 days drilling time  
Unusually deep drilling (high horsepower rig): No, 2500' TVD.  
Possible H2S 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 small rig to drill to 2500' TVD

**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 Clear Creek, about 1/16 of a mile south of this location.  
Water well contamination: No, closest water well is about 5/8 of a mile to the southeast from this location and less than 50' in depth.  
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: 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)

Stream crossings: None  
High erosion potential: No, small cut, up to 8' and small fill, up to 10.0', 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, 250'X250' 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: Access will be over existing county roads and existing ranch trails. About 3/8 of a mile of new access trail will be built into this location off the existing ranch trail. Cuttings will be disposed of in the unlined earthen pits. Drilling fluids will be trucked to nearby stock pond and disposed of with surface owner approval. Pit will be allowed to dry then backfilled. No special concerns.

### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Yes, closest residence about 3/8 mile to the east and 3/4 of a mile to the southeast of this location.

Possibility of H2S: None

Size of rig/length of drilling time: Small drilling rig/short 3 to 4 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: 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. No concerns.

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### Social/Economic

(possible concerns)  
 Substantial effect on tax base  
 Create demand for new governmental services  
 Population increase or relocation  
Comments: Development well within an existing gas field, Tiger Ridge gas field.  
No concerns.

### Remarks or Special Concerns for this site

Well is a 2500' TVD Eagle Formation test

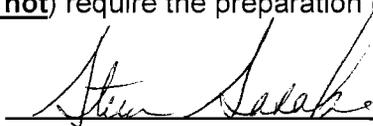
### Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur.

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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: April 14, 2008

### Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC  
website  
(Name and Agency)  
Blaine County water wells  
(subject discussed)  
April 14, 2008  
(date)

If location was inspected before permit approval:

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

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

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