

Montana Board of Oil and Gas Conservation  
Environmental Assessment

Operator: Devon Energy Production Company, L.P.  
Well Name/Number: Dunbar 6-1  
Location: SE NE Section 6 T27N R19E  
County: Blaine, MT; Field (or Wildcat) Sawtooth Mountain

**Air Quality**

(possible concerns)

Long drilling time no, 4 to 5 days drilling  
Unusually deep drilling (high horsepower rig) no, 2500' TVD  
Possible H2S gas production no  
n/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, nearest drainage is a ephemeral tributary to Hedges Creek about 1/8 of a mile south of this location.  
Water well contamination no, nearest water well is over 1 mile away.. Production string will be cemented back to surface.  
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. Production casing will be cemented to surface.

**Soils/Vegetation/Land Use**

(possible concerns)

Stream crossings none  
High erosion potential No, small cut, up to 2.0' and small fill, up to 7.0', 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 two track well trails. A short access will be built off an existing well trail, about 1/4 mile in length. 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

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### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Ranch about 3/8 of a mile to the southeast of this 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 None identified.

Proximity to recreation sites About 12 miles north of the north boundary of the Upper Missouri River Breaks National Monument

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

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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: \_\_\_\_\_

**Social/Economic**

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: Well is a development well within the Sawtooth Mountain gas field, No concerns.

**Remarks or Special Concerns for this site**

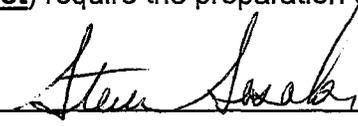
Well is a 2500' TVD, Eagle Formation test

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

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

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 9, 2006

Other Persons Contacted:

\_\_\_\_\_  
(Name and Agency)

Montana Bureau of Mines and Geology, Groundwater Information Center website, Blaine County water wells.

(subject discussed)

June 9, 2006

(date)

If location was inspected before permit approval:

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

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

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