

Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Devon Energy Production Company, L.P.
Well Name/Number: Walen 33-11
Location: NE SW Section 33 T32N R17E
County: Hill, MT; Field (or Wildcat) Tiger Ridge

Air Quality

(possible concerns)

Long drilling time no, 4 to 5 days drilling time
Unusually deep drilling (high horsepower rig) no, 2500' TD
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'

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 Staten Coulee and a tributary of Staten Coulee both about 1/8 mile to the west and east of the location.
Water well contamination none, no water wells within 1 mile of this location.
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)

Stream crossings none
High erosion potential no, small cut, up to 3' and small fill, up to 8', 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, 225'X225' location size required.

Damage to improvements slight
Conflict with existing land use/values no

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, Clear Creek Road and existing trails. About 1/4 of a mile existing trail will be used to access this location. Cuttings will be disposed of in the unlined earthen pits. Pit will be allowed to dry then backfilled. No special concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences about 3/8 of a mile to the north of this location. The town of Havre about 9 miles to the northwest.

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 none identified

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

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 _____ Development well within an existing gas field, Tiger Ridge Gas Field.

Remarks or Special Concerns for this site

_____ Well is a 2500' Eagle Formation test north side of Bear Paw Mountains

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: May 13, 2006

Other Persons Contacted:

_____ Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

_____ Hill county water wells

(subject discussed)

_____ May 13, 2006

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____