

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

**Operator:** Hanna Oil & Gas Company.  
**Well Name/Number:** Finke 1-14  
**Location:** NW NE Section 14 T28N R1E  
**County:** Pondera MT; Field (or Wildcat) Wildcat

**Air Quality**

(possible concerns)

Long drilling time: No, 3 to 4 days drilling time.

Unusually deep drilling (high horsepower rig): No, single derrick drilling rig, to drill to 2250' TD, Madison Formation.

Possible H2S gas production: 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 2250' TD.

**Water Quality**

(possible concerns)

Salt/oil based mud: No, air, air mist, and/or freshwater drilling mud system.

High water table: No

Surface drainage leads to live water: No, closest live water nearby is an unnamed ephemeral tributary drainage to Powder Coulee, an ephemeral drainage, about 1/4 of a mile to the south of this location. Within these drainages are stock ponds.

Water well contamination: No, water wells within 1 mile of this location.

Porous/permeable soils: No, sandy clay 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: 300' of surface casing will be set and cemented to surface adequate to protect freshwater zones. Also, air mist/freshwater gel mud systems to be used.

**Soils/Vegetation/Land Use**

(possible concerns)

Stream crossings: No, stream crossings.

High erosion potential: No, location will require a small cut, up to 2.5' and a small fill, up to 4.3', 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, small location, 200'X200' location size required.

Damage to improvements: Slight, surface use is cultivated fields.

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 utilize existing county roads, Sollid Road/Highway 218 and existing two track section line road. About 600' of new access off existing two track section line road will have to be constructed into this location. Drill cuttings will be buried in the existing earthen pit. Drilling fluids will be allowed to evaporate. No special concerns

### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence/ buildings about 1/4 of a mile to the north of this location. Nearest school Christenson School, about 2 miles to the southwest of this location.

Possibility of H2S: Slight

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. Distance from well to residences is sufficient to mitigate noise concerns and 300' of surface casing with an operation BOP will mitigate any problems.

### 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: None identified

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: No concerns. Private surface.

**Historical/Cultural/Paleontological**

(possible concerns)

Proximity to known sites: None identified, private surface

Mitigation

   avoidance (topographic tolerance, location exception)

  X other agency review (SHPO, DSL, federal agencies)

   Other: \_\_\_\_\_

Comments: Private surface. No concerns.

**Social/Economic**

(possible concerns)

   Substantial effect on tax base

   Create demand for new governmental services

   Population increase or relocation

Comments: No concerns.

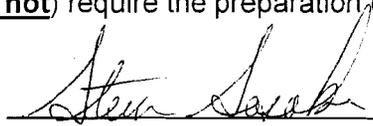
**Remarks or Special Concerns for this site**

Well is a vertical, 2250' Madison Formation test.

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

No, significant impacts expected, some short term impacts are expected, but should be able to mitigate these short term impacts.

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)

Pondera County water wells

(subject discussed)

April 14, 2008

(date)

If location was inspected before permit approval:

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

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

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