

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

**Operator:** KeeSun Corporation  
**Well Name/Number:** Burrows 3C-24  
**Location:** NE NW Section 24 T34N R3W  
**County:** Toole MT; Field (or Wildcat) Kevin-Sunburst

**Air Quality**

(possible concerns)

Long drilling time: No, 3 to 4 days drilling time.  
Unusually deep drilling (high horsepower rig): No, 1550' TD  
Possible H<sub>2</sub>S gas production: Yes, if Madison completion.  
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 1550'.

**Water Quality**

(possible concerns)

Salt/oil based mud: No, freshwater, freshwater mud system, air, air mist.  
High water table: No  
Surface drainage leads to live water: None  
Water well contamination: No, closest domestic water well is about 1/2 of a mile to the northwest of this location. Depth of water well is 35'. Surface casing in this well will be drilled with air or freshwater and steel surface casing set at 300' and cemented to surface.  
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: 300' of surface casing cemented to surface adequate to protect freshwater zones. Also, air/air mist and/or fresh water mud systems to be used.

**Soils/Vegetation/Land Use**

(possible concerns)

Stream crossings: No, stream crossings.  
High erosion potential: No, small cut, up to 1.1' and small fill, up to 0.4', 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: No, 200'X200' location size required.

Damage to improvements: Slight, cultivated land.

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 access road. About 500' of new access will be built into this location from the two track well access road. Cuttings will be buried in and unlined earthen pit. Drilling fluids if used will be allowed to dry in the pit. Pits will be backfilled after drying. no special concerns

### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence is 1.5 miles to the northeast and 1.25 miles to the north of this location.

Possibility of H2S: Yes, 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

### 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: No

Mitigation:

Avoidance (topographic tolerance/exception)

Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite

Other: \_\_\_\_\_

Comments: Private surface lands. No concerns

### 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: Private surface lands. 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: No concerns. Well is in the Kevin-Sunburst Oil & Gas Field.

### Remarks or Special Concerns for this site

Well is a 1550' Madison Formation test.

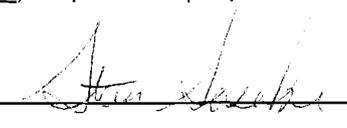
### Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur, but can be mitigated.

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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: March 24, 2008

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Toole County water wells.

(subject discussed)

March 24, 2008

(date)

If location was inspected before permit approval:

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

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

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