

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

Operator: Continental Resources, Inc.  
Well Name/Number: Mecier 1-28  
Location: SW NW Section 28 T29N R47E  
County: Roosevelt, MT; Field (or Wildcat) W/C

**Air Quality**

(possible concerns)

Long drilling time: No, 20 to 30 days drilling time.  
Unusually deep drilling (high horsepower rig): No, big double derrick drilling rig or a small triple derrick drilling rig to drill to 7,600' TVD.  
Possible H2S gas production: Yes  
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: Big double derrick drilling rig or a small triple derrick drilling rig to drill to 7,600' TVD. No special concerns.

**Water Quality**

(possible concerns)

Salt/oil based mud: Yes, freshwater and freshwater mud system on surface hole and invert oil based mud system on mainhole.  
High water table: No  
Surface drainage leads to live water: No, closest surface drainage is an unnamed ephemeral tributary to West Fork Tule Creek, about 1/16 of a mile east of this location.  
Water well contamination: No, all water wells shallower than surface casing setting depth of 700'. Closest water well (stock water) to this location is 3/16 of a mile to the southwest, depth of this well is 220'. Surface hole will be drilled with freshwater and surface casing set and cemented back to surface from 700'.  
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: 700' of surface casing cemented to surface adequate to protect freshwater zones.

**Soils/Vegetation/Land Use**

(possible concerns)

Stream crossings: None

High erosion potential: No, small cut up to 6.0' and small fill, up to 4.6' 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, 270'X350' 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: Using existing county roads. Will have to build 4127' of new access road into location off existing county road. Drilling and completion fluids will be hauled to a commercial Class II disposal. Cuttings will be left in the lined pit. Cuttings and pit will be buried after being allowed to dry. No special concerns

### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Buildings and residences about 1.25 miles to the west southwest and southwest of location.

Possibility of H2S: Yes

Size of rig/length of drilling time: Big double or small triple drilling rig/moderate 20 to 30 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 surface lands. 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 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.

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**Remarks or Special Concerns for this site**

Well is a 7,600' TD vertical Lodgepole Formation test in Roosevelt County.

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

No significant long term impacts expected, some short term impacts are expected.

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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: May 15, 2008

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Roosevelt County water wells

(subject discussed)

May 15, 2008

(date)

If location was inspected before permit approval:

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

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

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