

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

Operator: Tyler Oil Company
Well Name/Number: Winston Mitchell 34-13
Location: SW SW Section 34 T25N R23E
County: Phillips, **MT;** **Field (or Wildcat)** Wildcat

Air Quality

(possible concerns)

Long drilling time: No, 5 -7 days drilling time.
Unusually deep drilling (high horsepower rig): No, 2400' TD.
Possible H2S gas production: Yes, 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 2400' TD.

Water Quality

(possible concerns)

Salt/oil based mud: No, air/air mist, freshwater and freshwater mud system.
High water table: No
Surface drainage leads to live water: Yes, nearest unnamed ephemeral tributary drainage to Cabin Creek, about 1/4 mile to the northwest of this location. Within this ephemeral drainage are stock ponds.
Water well contamination: None, nearest water wells are 1/2 of a mile to the northwest in section 33 and 1/2 of a mile to the southwest in section 3 from this location. These wells are 183' to 61' in deep. This well will be drilled with freshwater and steel surface casing will be set at 240', cemented to surface. Well will be drilled with air and or freshwater. If well is successful steel production casing will be set from 2400' and cemented to surface. No concerns.
Porous/permeable soils: No, silty 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: 240' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. Production casing will be cemented back to surface if run.

Soils/Vegetation/Land Use

(possible concerns)

Steam crossings: None

High erosion potential: No small cut, up to 1.0' and small fill, up to 5.0', 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, 200'X200' location size required.

Damage to improvements: Slight, surface use is grassland.

Conflict with existing land use/values: Slight, surface use is grassland

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: Will use existing county roads, and an existing ranch trails. Will build about 1/8 of a mile of new access from existing two track trail into this location. Cuttings will be buried in the unlined pits. Mud fluids will be allowed to dry in the pits. Pits will be backfilled when dry. No special concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Residences, 1/2 of a mile to the southwest and northwest from this location.

Possibility of H2S: Yes, slight.

Size of rig/length of drilling time: Small drilling rig/short 5 to 7 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.

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: No concerns, private surface.

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: No concerns

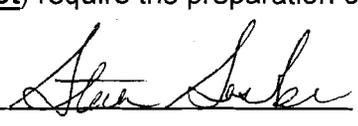
Remarks or Special Concerns for this site

Well is a 2400' TD, Mission Canyon Formation test.

Summary: Evaluation of Impacts and Cumulative effects

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

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 17, 2008

Other Persons Contacted:

Montana Bureau of Mines and Geology, Groundwater Information Center website

(Name and Agency)

Phillips County water wells.

(subject discussed)

April 17, 2008

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____