

Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Croft Petroleum Company.
Well Name/Number: Conrad No. 14-18
Location: C SE SW Section 18T35N R5W
County: Glaicer, MT; Field (or Wildcat) Cut Bank

Air Quality

(possible concerns)

Long drilling time no, 5 to 6 days drilling time
Unusually deep drilling (high horsepower rig) no, 2770' TD
Possible H₂S gas production No
n/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 2770' TD

Water Quality

(possible concerns)

Salt/oil based mud No, freshwater and freshwater mud system to 525'. Drill out of surface casing with air to TD 2750'.
High water table No
Surface drainage leads to live water No, locations next to unnamed ephemeral drainage.
Water well contamination No, all water wells nearby are shallower than 500' in depth. Closest water well is about 1/2 mile to the northwest of this location and is only 108' in depth.
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: 500' surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. Production casing will be set and cemented with ECP.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings no
High erosion potential no, small cut, up to 8.6' and small fill, up to 8.2', 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, on 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 paved highway. About 1/2 mile of new access will be built into this location. Drill cuttings will be buried on site. Drilling fluids will be allowed to evaporate and pit will be backfilled when dry. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences Closest residence 0.75 miles to the north of this location.

Possibility of H2S None

Size of rig/length of drilling time Small drilling rig/short 5 to 6 days drilling time

Mitigation:

Proper BOP equipment

Topographic sound barriers

H2S contingency and/or evacuation plan

Special equipment/procedures requirements

Other: _____

Comments: Working BOP should mitigate any issues. Distance is sufficient to not be a problem with noise. 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
Mitigation
 avoidance (topographic tolerance, location exception)
 other agency review (SHPO, DSL, federal agencies)
 Other: _____
Comments: _____

Social/Economic

(possible concerns)
 Substantial effect on tax base
 Create demand for new governmental services
 Population increase or relocation
Comments: no concerns

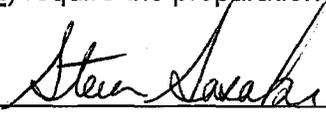
Remarks or Special Concerns for this site

Well is a 2800' Ellis Formation test in an existing gas field, Cut Bank Field.

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected from the drilling of this well. Some short term surface impacts will occur, but will be mitigated in time.

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: June 3, 2006

Other Persons Contacted:

(Name and Agency)
Montana Bureau of Mines and Geology, Groundwater Information Center website,
Glacier County water wells.

(subject discussed)
June 3, 2006
(date)

If location was inspected before permit approval:
Inspection date: _____

Inspector: _____

Others present during inspection: _____