

Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Petro Hunt, LLC
Well Name/Number: BR 5A-2-1
Location: NW NE Lot 2 Section 5 T22N R54E
County: Richland, MT; Field (or Wildcat) W/C

Air Quality

(possible concerns)

Long drilling time 30-40 days drilling time
Unusually deep drilling (high horsepower rig) No, triple drilling rig for 11,500' TD
Possible H2S gas production yes
n/near Class I air quality area yes
Air quality permit for flaring/venting (if productive) DEQ air quality permit if well is productive with associated gas and no gas gathering pipeline available.

Mitigation:

- Air quality permit (AQB review)
- Gas plants/pipelines available for sour gas
- Special equipment/procedures requirements
- Other: _____

Comments: no special concerns, adequate surface casing 2000' to be set and cemented back to surface with proper BOP stack should mitigate any concerns. Triple rig to drill to 11,500'.

Water Quality

(possible concerns)

Salt/oil based mud use freshwater and freshwater mud system on surface and saltwater mud to TD.
High water table no
Surface drainage leads to live water no, nearest live water is a stock pond in Redwater Creek bottom about 1/2 mile to the southwest of this location.
Water well contamination no, all water wells TD at 300' or less.
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: 2000' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used on surface hole. Reserve pit liquids to be disposed of at Landtech 201. Solids will be allowed to dry, pit liner folded over the top of the solids, spoil dirt to fill pit, top soil spread over pit area, and seeded to land owners specification.

Soils/Vegetation/Land Use

(possible concerns)
Steam crossings none.
High erosion potential no, moderate cut, up to 24' and moderate fill, up to 18.3' required.
Loss of soil productivity no, location will be restored after drilling if nonproductive. If productive unused portion of the drillsite will be restored.
Unusually large wellsite Large, 400'X350' location size required.
Damage to improvements no
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 state highway #20. About 1/4 mile of new access road will be built into this location. Reserve pit liquids to be disposed of at Landtech 201. Solids will be allowed to dry, pit liner folded over the top of the solids, spoil dirt to fill pit, top soil spread over pit area, and seeded to land owners specification. No special concerns

Health Hazards/Noise

(possible concerns)
Proximity to public facilities/residences Residence about 1 mile to the southwest of wellsite. The town of Enid is about 1.5 miles to the southeast of this location.
Possibility of H2S yes
Size of rig/length of drilling time Triple drilling rig 30 to 40 days drilling time
Mitigation:
 Proper BOP equipment
 Topographic sound barriers
 H2S contingency and/or evacuation plan
 Special equipment/procedures requirements
 Other: _____
Comments: no concerns, residences almost a mile away from wellsite. H2S safety company to setup alarms and train rig employees. Proper BOP stack and surface casing should be able to control any problems that occurs.

Wildlife/recreation

(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified) Fox Lake Water Fowl Management Area 6 miles to the ESE of location.
Proximity to recreation sites Fox Lake Water Fowl Management Area 6 miles to the ESE of location.
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, Fox Lake Water Fowl Project area 6 miles to the southeast of wellsite.

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 land

Social/Economic

(possible concerns)

- Substantial effect on tax base
- Create demand for new governmental services
- Population increase or relocation

Comments: no concerns

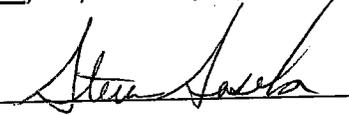
Remarks or Special Concerns for this site

Well is a 11,500' Red River formation test

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term 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: January 6, 2006

Other Persons Contacted:

Matt, FWP-Miles City
Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)
Fox Lake Water Fowl Management Area, FWP
Water wells in Richland County, GWIC
(subject discussed)
7/3/03 FWP
January 6, 2006 GWIC
(date)

If location was inspected before permit approval:
Inspection date: _____
Inspector: _____
Others present during inspection: _____