

Montana Board of Oil and Gas Conservation  
Environmental Assessment

Operator: Headington Oil, LP  
Well Name/Number: State 24X -36  
Location: SE SW 36 T25N R53E  
County: Richland, MT; Field (or Wildcat) Wildcat

Air Quality

(possible concerns)

Long drilling time no  
Unusually deep drilling (high horsepower rig) no  
Possible H2S gas production No  
In/near Class I air quality area no  
Air quality permit for flaring/venting (if productive) no

Mitigation:

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

Comments: No special concerns

Water Quality

(possible concerns)

Salt/oil based mud Yes  
High water table no  
Surface drainage leads to live water no  
Water well contamination no  
Porous/permeable soils no  
Class I stream drainage no

Mitigation:

xx Lined reserve pit  
xx Adequate surface casing  
    Berms/dykes, re-routed drainage  
    Closed mud system  
    Off-site disposal of solids/liquids (in approved facility)  
    Other: \_\_\_\_\_

Comments: will use closed mud system for oil base mud, surface casing is adequate. Oil mud recycled. Oil drilled cuttings stored in lined pit.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings no  
High erosion potential no  
Loss of soil productivity no  
Unusually large wellsite no  
Damage to improvements no  
Conflict with existing land use/values no

Mitigation

    Avoid improvements (topographic tolerance)  
    Exception location requested  
xx Stockpile topsoil  
    Stream Crossing Permit (other agency review)  
xx Reclaim unused part of wellsite if productive  
    Special construction methods to enhance reclamation  
    Other: \_\_\_\_\_

Comments: Location requires about 13' of cut on high side.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences > 1/4 mile  
Possibility of H2S No  
Size of rig/length of drilling time

Mitigation:

xx Proper BOP equipment  
    Topographic sound barriers  
    H2S contingency and/or evacuation plan  
    Special equipment/procedures requirements  
    Other: \_\_\_\_\_

Comments: no special concerns

**Wildlife/recreation**

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified) no  
Proximity to recreation sites none in immediate area  
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)  
  x Other agency review (DFWP, federal agencies, DSL)  
   Screening/fencing of pits, drillsite  
   Other: \_\_\_\_\_

Comments: no special concerns in this area

**Historical/Cultural/Paleontological**

(possible concerns)

Proximity to known sites none identified

Mitigation

   avoidance (topographic tolerance, location exception)  
  x other agency review (SHPO, DSL, federal agencies)  
   Other: \_\_\_\_\_

Comments: state lands

**Social/Economic**

(possible concerns)

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

Comments: no special concerns

**Remarks or Special Concerns for this site**

Well is a dual lateral Horizontal Bakken test; TSU is all of sec 36- statewide TSU

Summary: Evaluation of Impacts and Cumulative effects

Only minor, short term impacts associated with this project.

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): [Signature]  
(title:) Administrator  
Date: July 29, 2004

Other Persons Contacted:

\_\_\_\_\_  
(Name and Agency)  
\_\_\_\_\_  
(subject discussed)  
\_\_\_\_\_  
(date)

If location was inspected before permit approval:

Inspection date: \_\_\_\_\_  
Inspector: \_\_\_\_\_  
Others present during inspection: \_\_\_\_\_