

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

Operator: Enerplus Resources (USA) Corporation
Well Name/Number: Bullwinkle-Ardelle 4-3-H
Location: NE NW Section 4 T23N R57E
County: Richland, MT; **Field (or Wildcat)** Wildcat

Air Quality

(possible concerns)

Long drilling time No, 30-40 days drilling time.
Unusually deep drilling (high horsepower rig) Triple derrick rig 900 HP, Bakken horizontal MD 14,946' 10,490' TVD
Possible H2S gas production 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: Existing pipeline for gas in the area.
-

Water Quality

(possible concerns)

Salt/oil based mud yes to long string salt based and oil based drilling fluids. Surface casing hole to be drilled with freshwater and freshwater mud.
High water table No
Surface drainage leads to live water No, closes drainage is a ephemeral tributary drainage to Lone Tree Creek, about 1/4 mile to the east of this location.
Water well contamination No, all water wells close by are shallower than 1980'.
Porous/permeable soils No, gumbo soils
Class I stream drainage No, Class I stream drainages.

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: 1980'+/- surface casing well below freshwater zones in adjacent water wells. Also, covering Fox Hills aquifer. Adequate surface casing and BOP equipment to prevent problems in and around freshwater slough.

Soils/Vegetation/Land Use

(possible concerns)

Steam crossings None
High erosion potential No, moderate cut, up to 11.4' and a moderate fill, up to 17.3', required.

Loss of soil productivity None, location to be restored after drilling well, if nonproductive. If productive unused portion of drillsite will be reclaimed.

Unusually large wellsite No, large well site 420'X310'

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: Access will be over existing county roads and existing lease roads. A short access off the existing lease road into location will be built, about 50' in length. Cuttings will be buried in the lined reserve pit. Drilling fluids will be recycled and/or hauled to a commercial Class II disposal. Pit will be squeezed with clay subsoils.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences closest residence is 3/4 of a mile to the northeast and 1.25 miles to the south of this location.

Possibility of H2S Slight

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: Adequate surface casing cemented to surface with working BOP stack should mitigate any problems. Distance sufficient to mitigate noise.

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: Private surface

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: No concerns

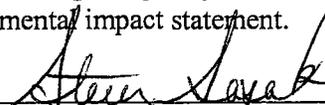
Remarks or Special Concerns for this site

Second well in this spacing unit.

Summary: Evaluation of Impacts and Cumulative effects

TVD 10,490' MD 14,946' Bakken Formation horizontal well

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 18, 2006

Other Persons Contacted:

(Name and Agency)

Montana Bureau of Mines and Geology, Groundwater Information Center website, Richland County water wells

(subject discussed)

May 18, 2006

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Fidelity Exploration and Production Company
Well Name/Number: Fee-BR No. 2567
Location: NE SE Section 19T7N R60E
County: Fallon, MT; Field (or Wildcat) Cedar Creek

Air Quality

(possible concerns)

Long drilling time no, 3 to 4 days drilling time.
Unusually deep drilling (high horsepower rig) no, 2000' TD
Possible H2S gas production no
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 2000'

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system.
High water table Possible
Surface drainage leads to live water Yes, water shed drainage for Lake Baker is ¼ mile to the north of this location.
Water well contamination none, closest water wells 1 mile to 1/1/4 miles to the west of this location.
Porous/permeable soils no, bentonite soils
Class I stream drainage no

Mitigation:

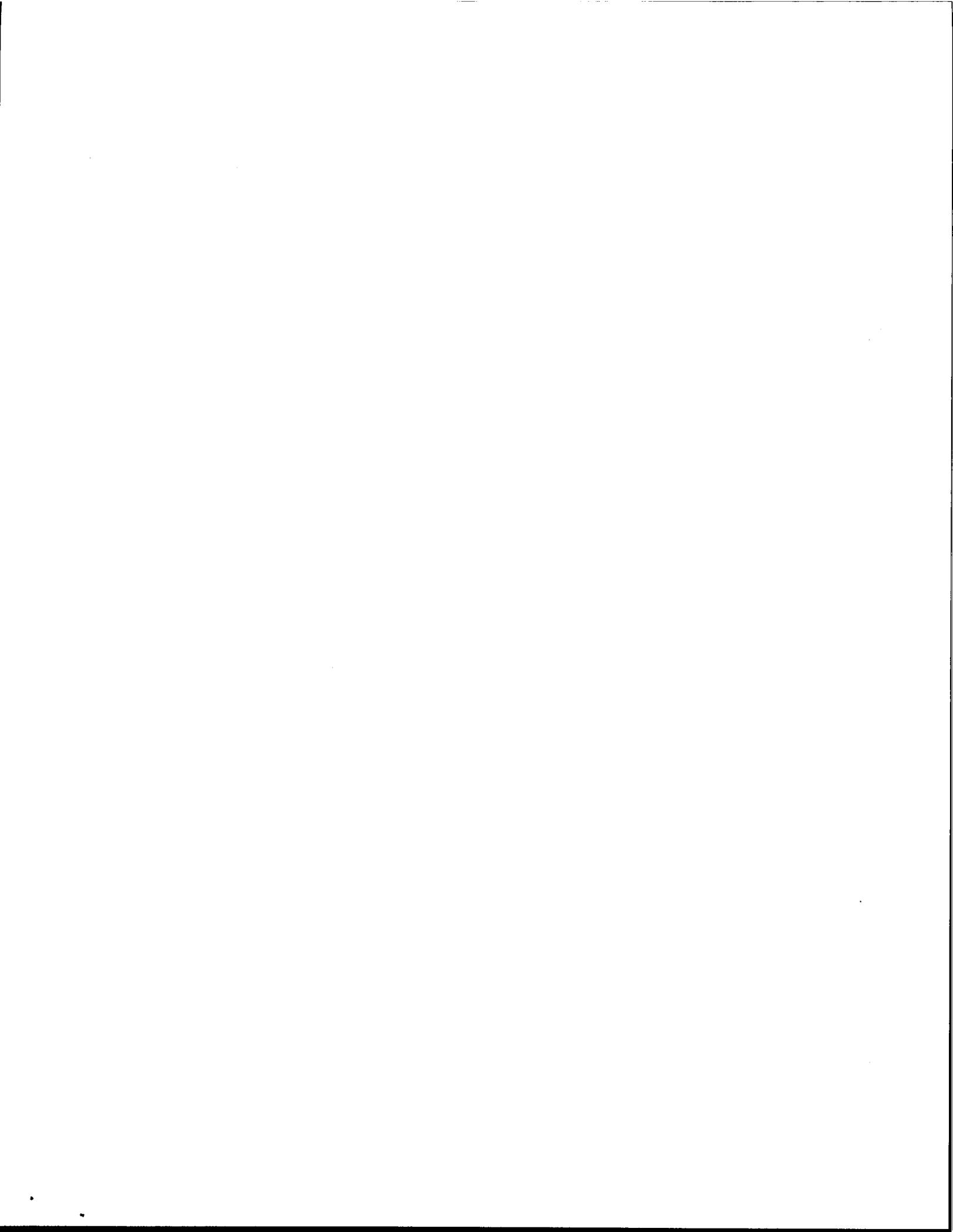
- Lined reserve pit
 Adequate surface casing
 Berms/dykes, re-routed drainage
 Closed mud system
 Off-site disposal of solids/liquids (in approved facility)
 Other: _____

Comments: 150' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. Production casing will be cemented to surface.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings no
High erosion potential no, small cut, up to 5.0' and small fill, up to 0.9', 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, 120'X190' 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 road and will build a 1/8 mile of new trail to this location. Cuttings will be buried in the earthen reserve pit. Drilling fluids will be hauled to a nearby stock pond for disposal with surface owner approval or allowed to dry in the pit. Drilling pits will be allowed to dry before being backfilled. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences Building nearby to the south, 1/2 of a mile, 1/2 mile to the west is the Baker municipal airport and the main town of Baker 1.25 miles to the northwest of this location.

Possibility of H2S none

Size of rig/length of drilling time Small drilling rig/short 3 to 4 days drilling time

Mitigation:

Proper BOP equipment

Topographic sound barriers

H2S contingency and/or evacuation plan

Special equipment/procedures requirements

Other: _____

Comments: Insure drilling rig has strobe light operational in the derrick. No concerns

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified) n/a None identified.

Proximity to recreation sites Lake Baker 1.5 miles to the northwest of this location.

Creation of new access to wildlife habitat no

Conflict with game range/refuge management no

Threatened or endangered Species no

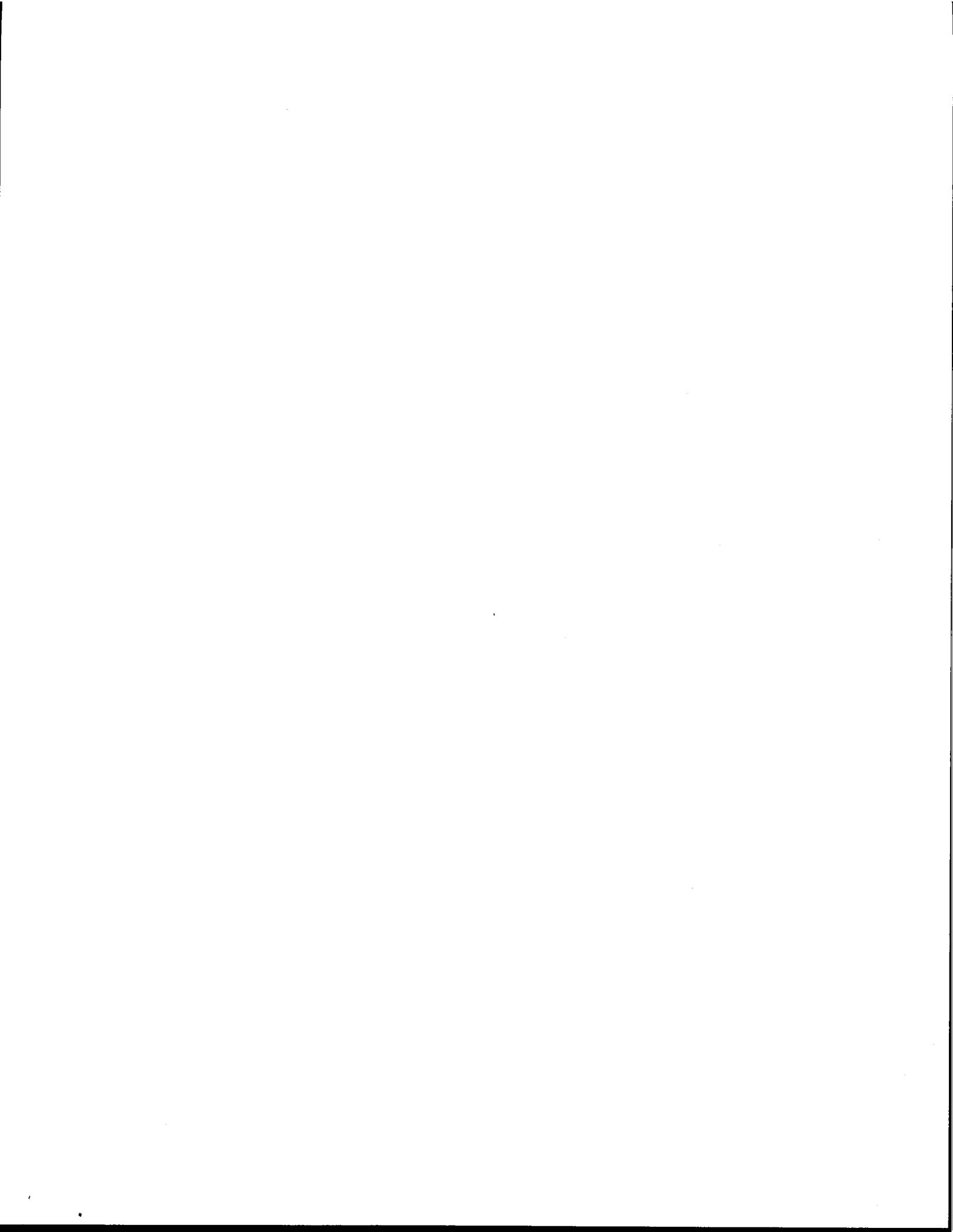
Mitigation:

Avoidance (topographic tolerance/exception)

Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite

Other: _____



Comments: no concerns

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: Development gas well within the Cedar Creek gas field. no concerns

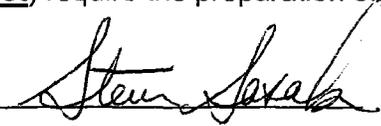
Remarks or Special Concerns for this site

Well is a 2000' Eagle Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur. This well is being drilled in an existing gas field.

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 20, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, Groundwater Information Center

(Name and Agency)



Water wells in Fallon County

(subject discussed)

April 20, 2006

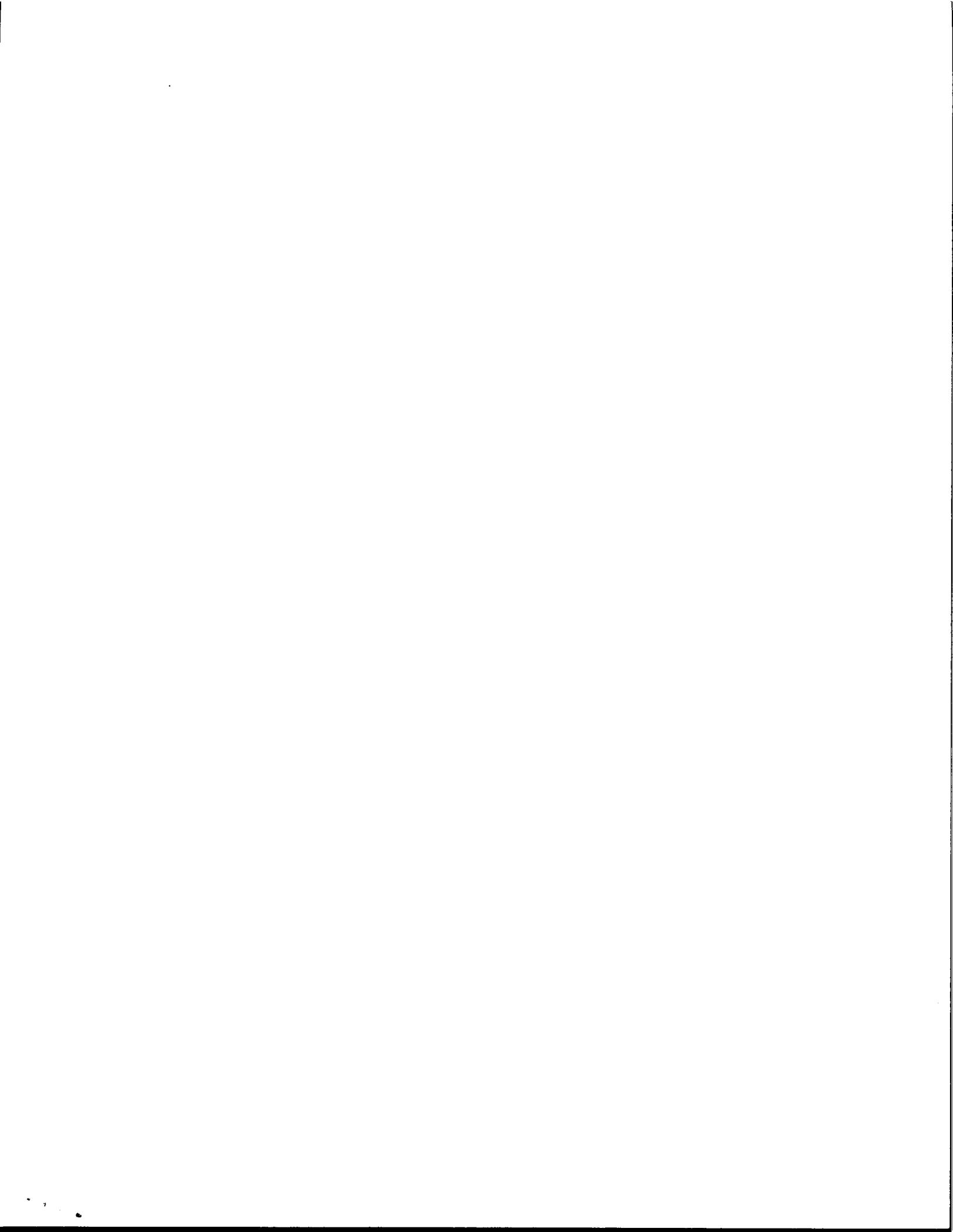
(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____



Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Devon Energy Production Company, LP
Well Name/Number: Herdegen 2-11
Location: NE SW Section 15 T27N R19E
County: Blaine, MT; Field (or Wildcat) Wildcat

Air Quality

(possible concerns)

Long drilling time no, 4 to 5 days
Unusually deep drilling (high horsepower rig) no, 2500' TD
Possible H2S gas production no
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 2500'

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system.
High water table no
Surface drainage leads to live water no, nearest drainage is an unnamed ephemeral tributary to Gap Creek, about 1/8 mile to the north and what appears to be a small stock pond in this drainage about 3/8 of a mile to the southeast of this location.
Water well contamination no, no water wells within 1 mile of this location.
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: 150' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. Production casing will be cemented to surface.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings none
High erosion potential No small cut, up to 8' and small fill, up to 4', required.



Loss of soil productivity no, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be restored.

Unusually large wellsite no, 250'X250' location size required.

Damage to improvements slight.

Conflict with existing land use/values no

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 county roads and existing trails.

About 1/4 of a mile of new access will be built into this location. Cuttings will be disposed of in the unlined earthen pits. Pit fluids will be trucked to a nearby stock pond for disposal with surface owner approval. Pit will be allowed to dry then backfilled. No special concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences No residences within 1 mile of this location.

Possibility of H2S none

Size of rig/length of drilling time Small drilling rig/short 4 to 5 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) n/a None identified.

Proximity to recreation sites not

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: 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

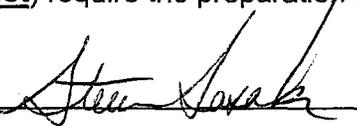
Remarks or Special Concerns for this site

Well is a 2500' Eagle Formation test

Summary: Evaluation of Impacts and Cumulative effects

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

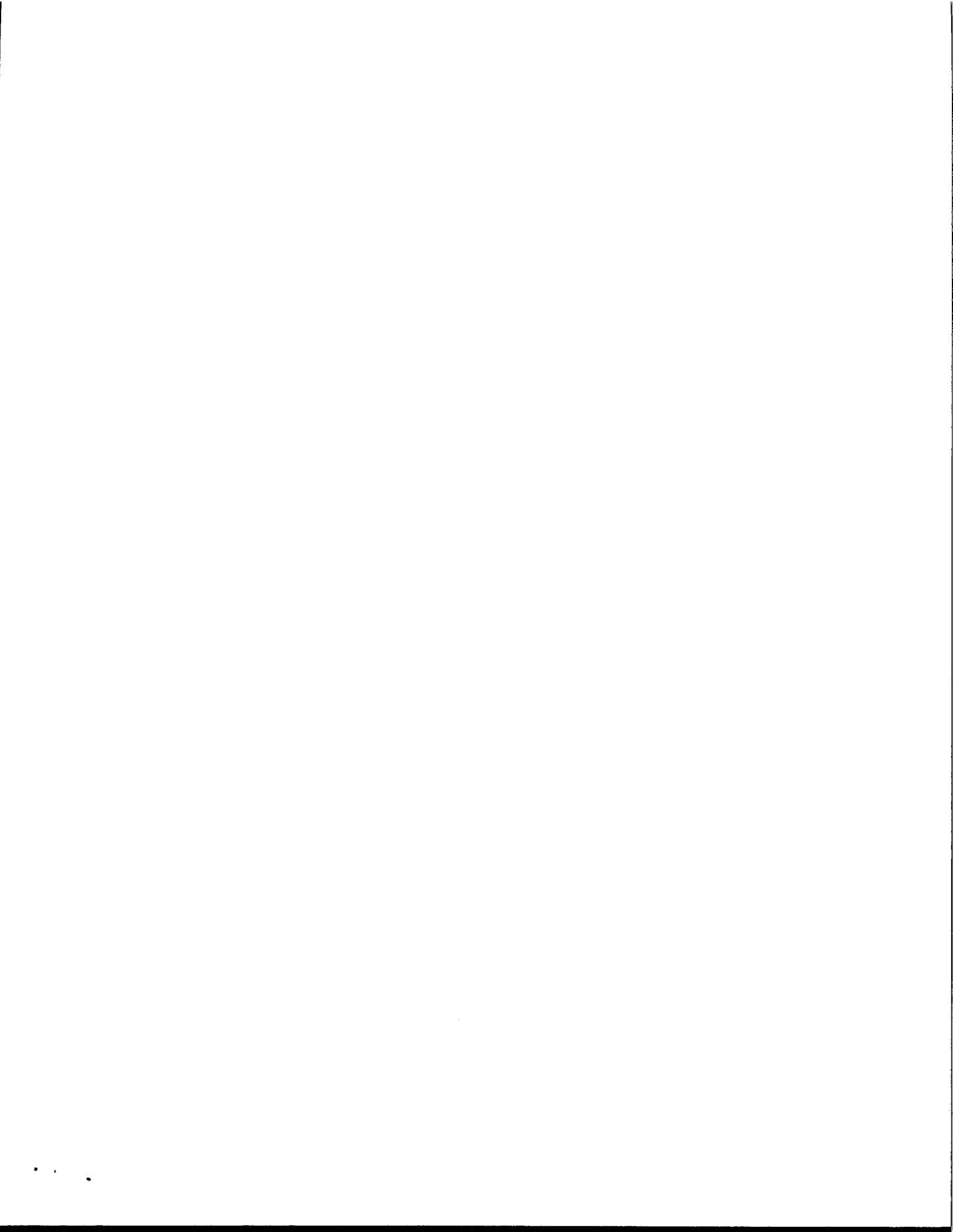
Prepared by (BOGC): Steven Sasaki 
(title:) Chief Field Inspector

Date: May 19, 2006

Other Persons Contacted:

(Name and Agency)

Montana Bureau of Mines and Geology, Groundwater Information Center website,
Blaine County water wells.



(subject discussed)

May 19, 2006

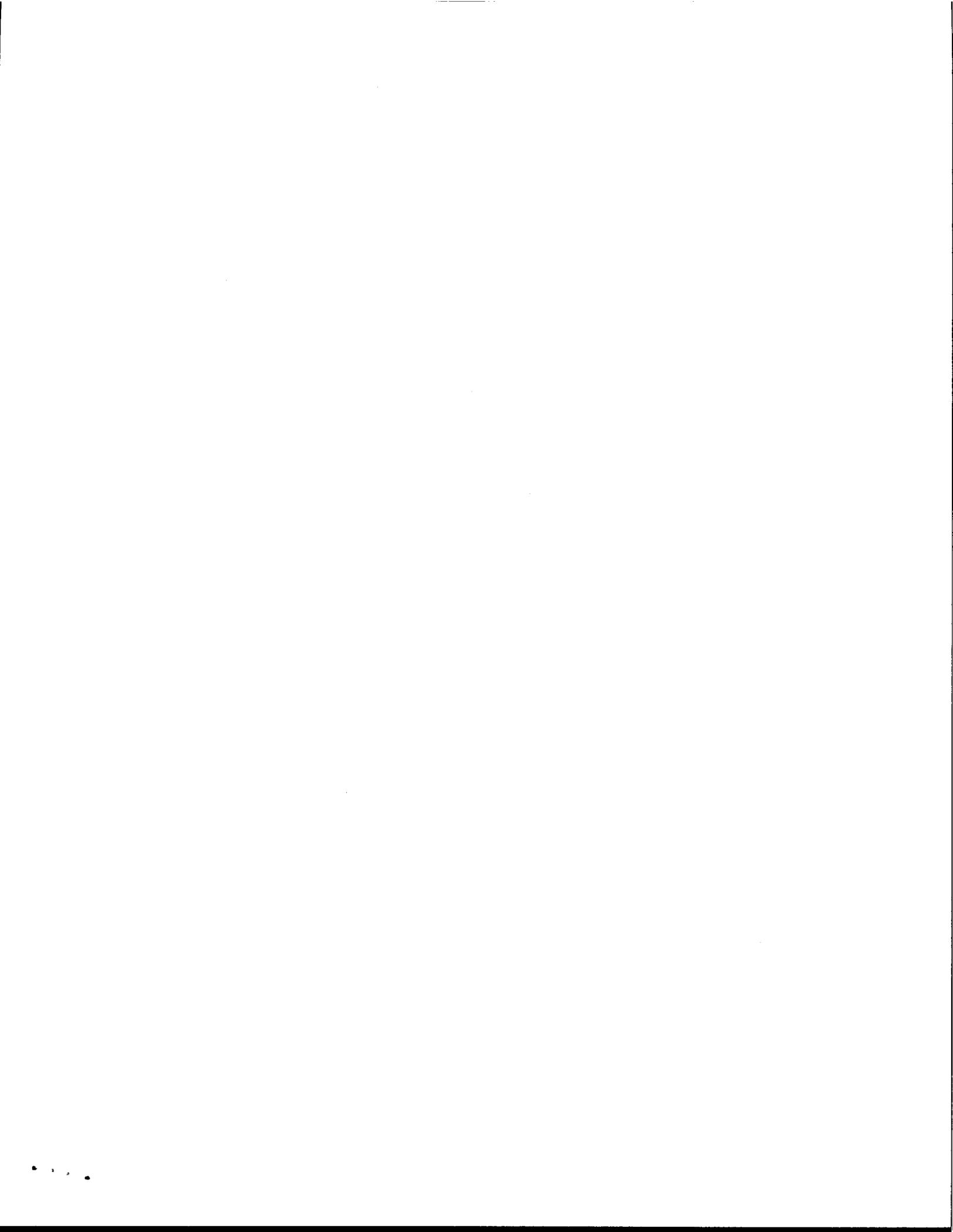
(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____



Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Sands Oil Company
Well Name/Number: Johnson 2-8
Location: NE NW Section 8T4N R61E
County: Fallon, MT; Field (or Wildcat) South Plevna

Air Quality

(possible concerns)

Long drilling time no, 3 to 4 days drilling time.
Unusually deep drilling (high horsepower rig) no, 1975' TD
Possible H2S gas production None expect
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 sized rig to drill to 1975'

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater gel polymer mud system.
High water table no
Surface drainage leads to live water None. Nearest drainage is an unnamed ephemeral drainage to Porcupine Creek
Water well contamination no, closest water well is 3/4 of a mile to the southeast of this location and is 180' in depth. Distance sufficient to prevent contamination and production string if run will be cemented back to surface.
Porous/permeable soils no, bentonite soils
Class I stream drainage no

Mitigation:

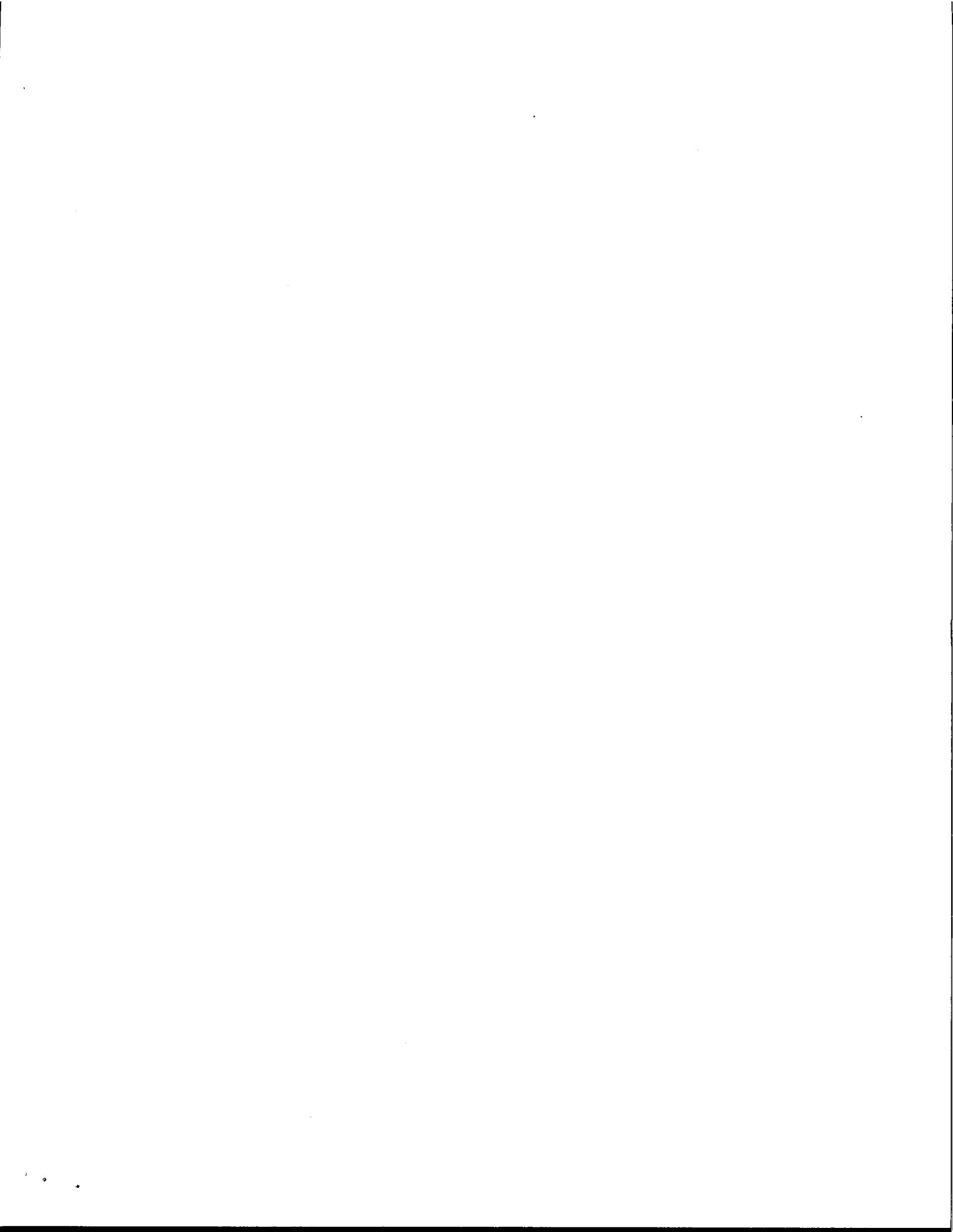
- Lined reserve pit
- Adequate surface casing
- Berms/dykes, re-routed drainage
- Closed mud system
- Off-site disposal of solids/liquids (in approved facility)
- Other: _____

Comments: 150' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings no
High erosion potential no, small cut, up to 3.1' and small fill, up to 0.5', 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, 120'X190' 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: Will use existing county roads and trails to within 0.25 of a mile of this location. Approximately 1/4 of a mile of new access will be built into this location. Cuttings will be buried in the drilling and reserve pits. Drilling 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 None within 2 miles of this location.

Possibility of H2S None

Size of rig/length of drilling time Small drilling rig/short 4 to 5 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) n/a

Proximity to recreation sites no

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

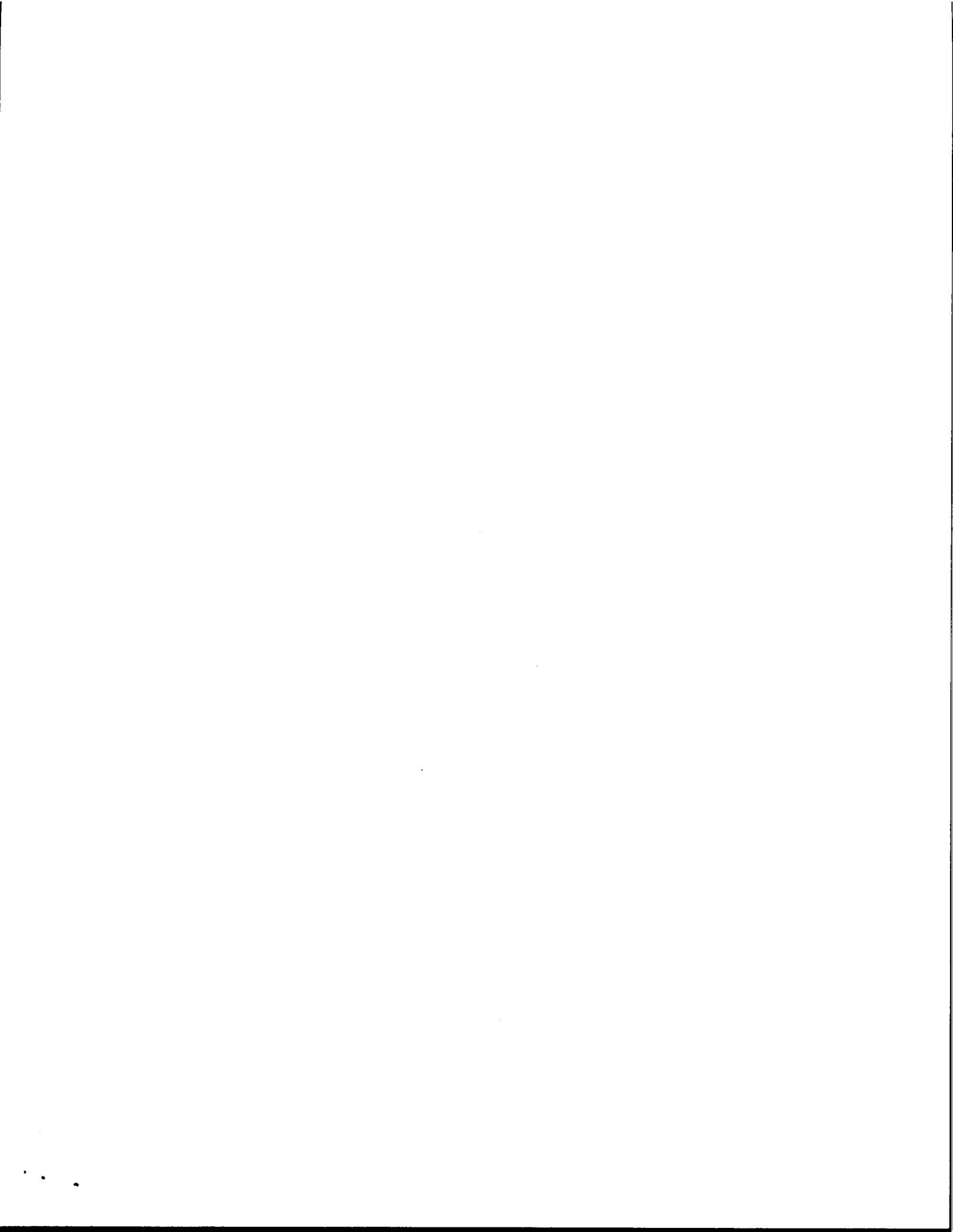
Historical/Cultural/Paleontological

(possible concerns)

Proximity to known sites None identified

Mitigation

avoidance (topographic tolerance, location exception)



other agency review (SHPO, DSL, federal agencies)

Other: _____

Comments: 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 1975' Eagle Formation test

Summary: Evaluation of Impacts and Cumulative effects

No, long term impacts expected. Some short term impacts will occur.

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 19, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Fallon County water wells

(subject discussed)

May 19, 2006

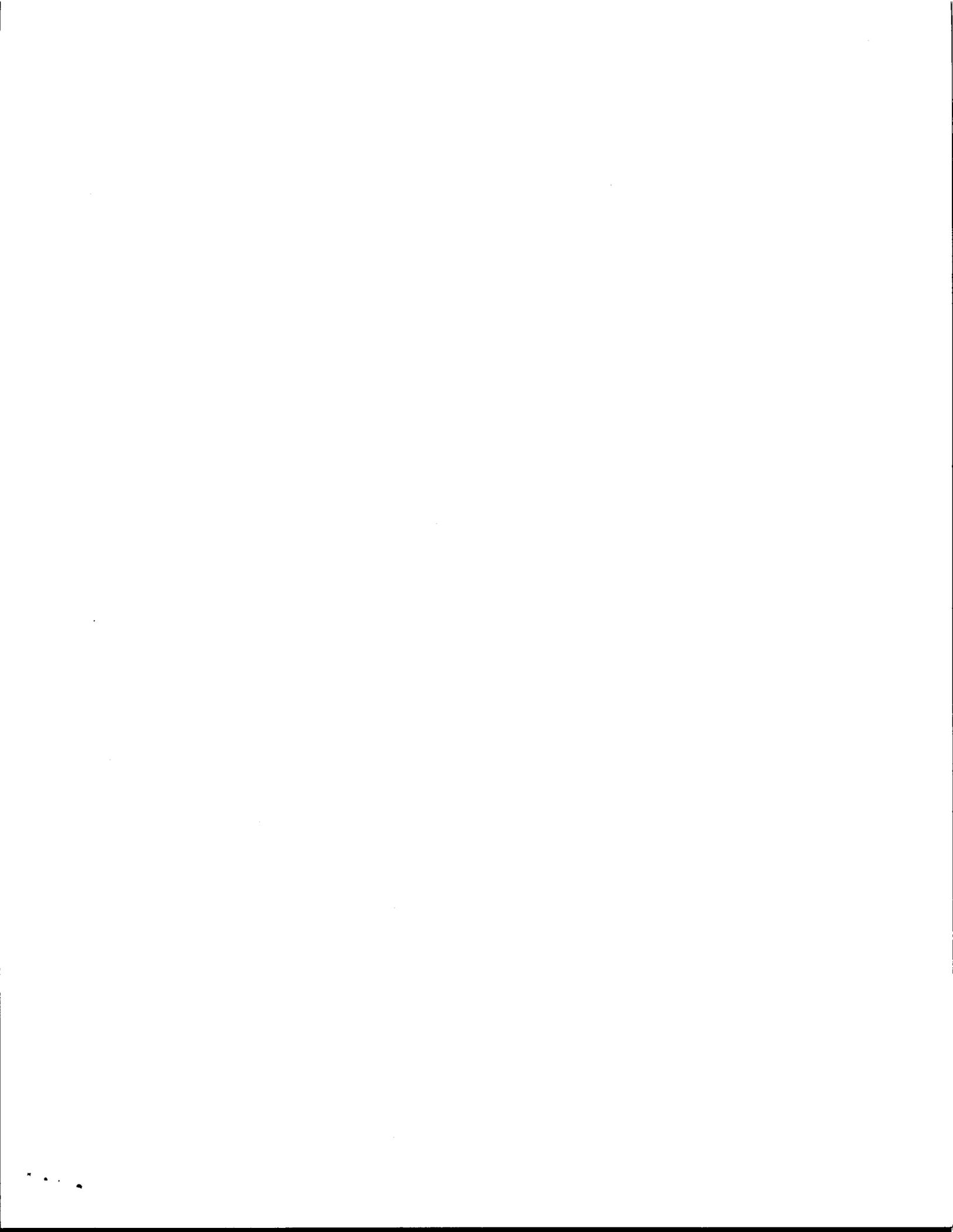
(date)

If location was inspected before permit approval:

Inspection date: May 15, 2006

Inspector: Hystad

Others present during inspection: None



Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Ballard Petroleum Holdings LLC
Well Name/Number: Smith 31-30
Location: NW NE Section 30T29N R51E
County: Roosevelt, MT; Field (or Wildcat) East Popular Unit

Air Quality

(possible concerns)

Long drilling time no, 15 to 20 days drilling
Unusually deep drilling (high horsepower rig) no, 7400' 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: no special concerns – using small rig to drill to 7400' TVD

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system on surface hole.
Mainhole will be drilled with oil based invert mud system.
High water table no
Surface drainage leads to live water No, closest drainage is an ephemeral Culbertson Creek, about 1/2 of a mile southwest of this location and the Popular River is about 1 mile to the southeast of this location..
Water well contamination none, all wells are at least 1/2 mile away and are shallower than 100' in depth. The surface casing on this well will be drilled to 1000' and casing cemented to surface.
Porous/permeable soils no, bentonite soils
Class I stream drainage no

Mitigation:

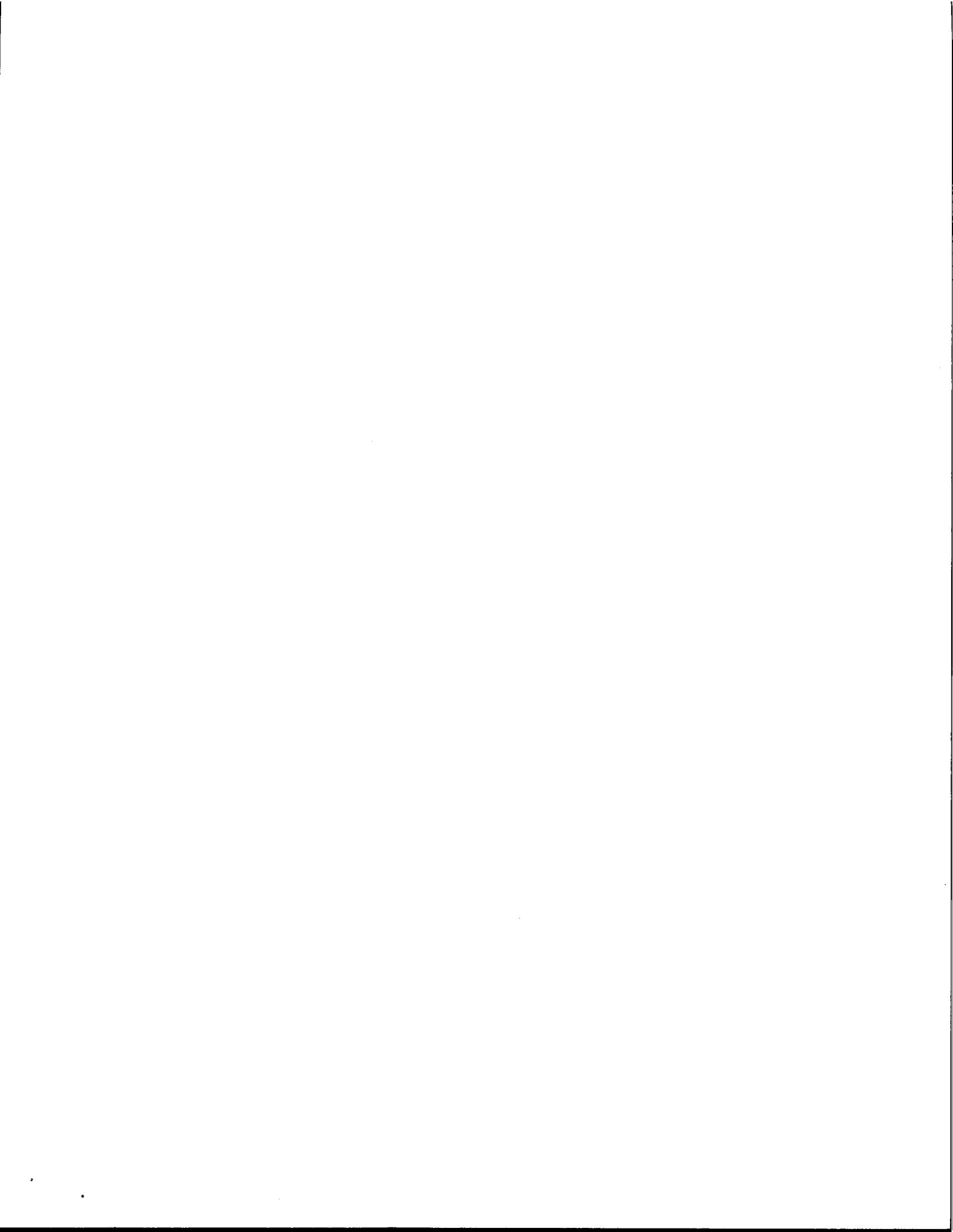
- Lined reserve pit
 Adequate surface casing
 Berms/dykes, re-routed drainage
 Closed mud system
 Off-site disposal of solids/liquids (in approved facility)
 Other: _____

Comments: 1000' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings none



High erosion potential no, small cut, up to 4.5' and small fill, up to 3.0', 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, 375'X375' 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: Access will be over existing county roads. About 190' of new access will be built off an existing county road into this location. Cuttings will be buried in the lined reserve pit. Drilling fluids will be recycled or hauled to a commercial Class II disposal. Pit will be allowed to dry and backfilled with subsoils and clays. Finished with topsoil and seeded to surface owners specification. No special concerns

Health Hazards/Noise

(possible concerns)
Proximity to public facilities/residences residences about 1/2 mile to the north, 1/2 mile to the southwest and 3/4 of a mile to the southeast and south from this location.

Possibility of H2S yes
Size of rig/length of drilling time Medium to small triple drilling rig/short 15 to 20 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) n/a
Proximity to recreation sites no
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: Road ROW on 1/4m Tribal. Private surface at location.



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: Road ROW on 1/4m Tribal. Private surface location.

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: no concerns within the East Popular Unit oil field.

Remarks or Special Concerns for this site

Well is a 7400' Nisku formation test

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur.

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

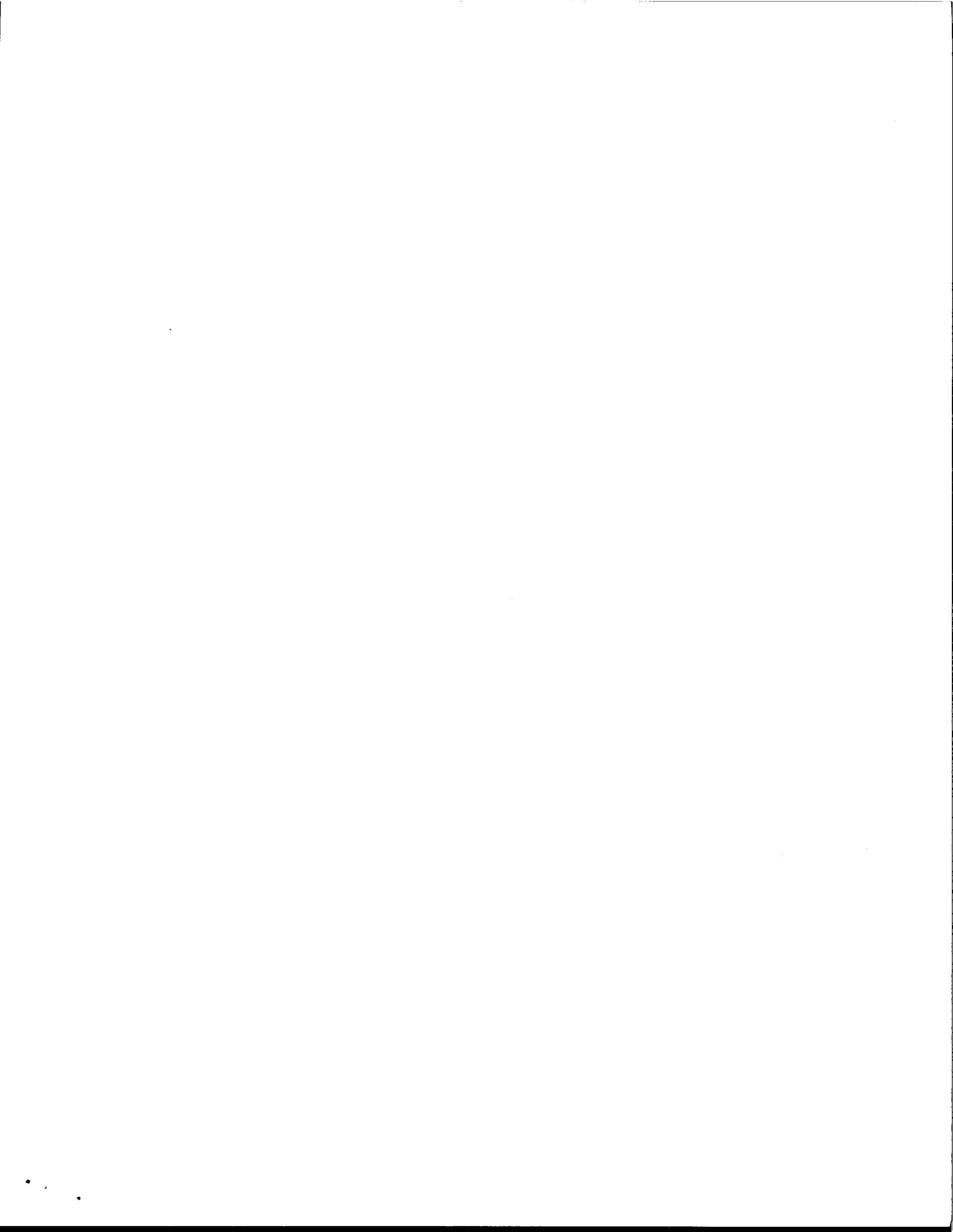
Date: May 18, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Roosevelt County water wells



(subject discussed)

May 18, 2006

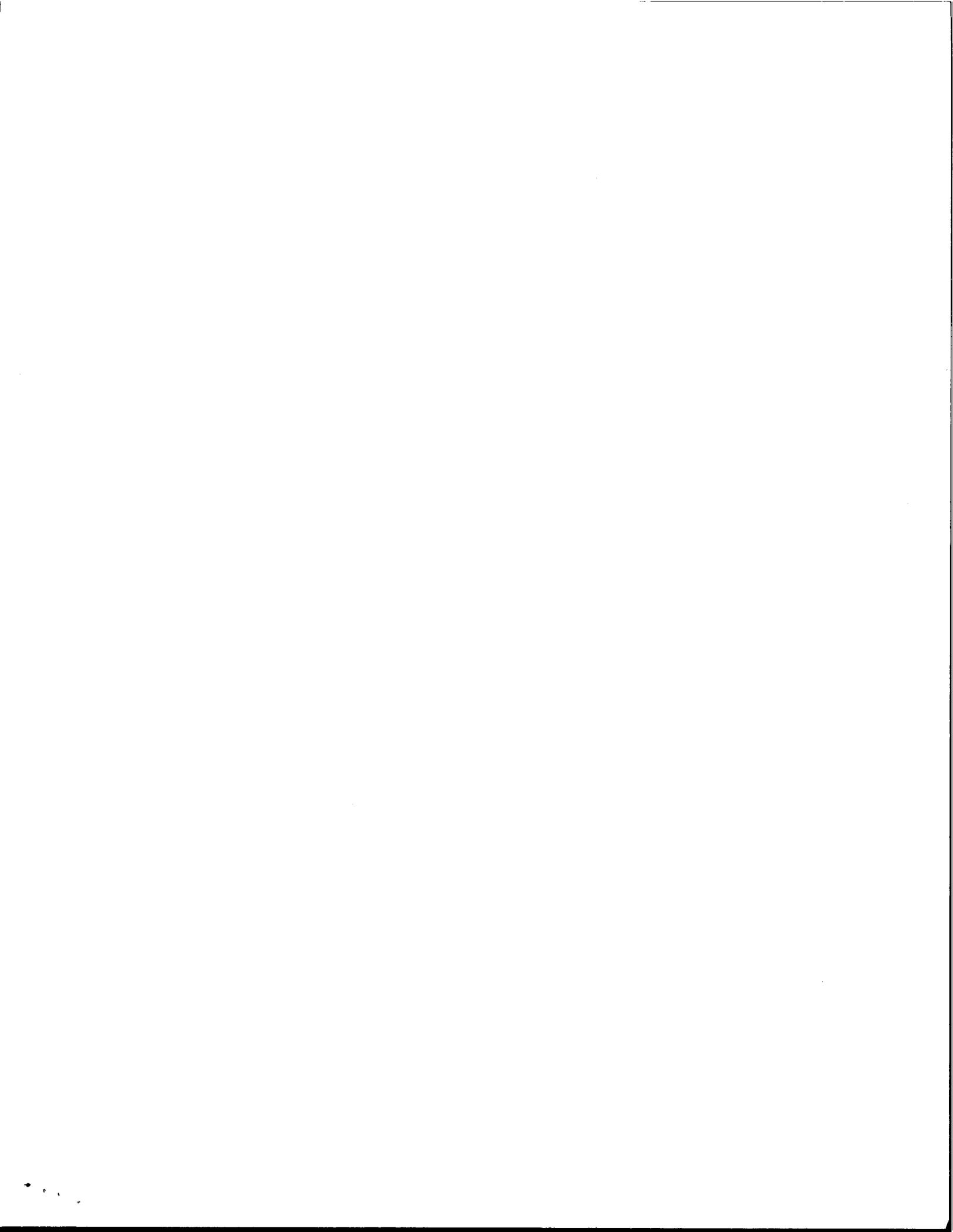
(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____



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

Operator: Enerplus Resources (USA) Corporation
Well Name/Number: Olive-Volden 27-2-H
Location NW NE Section 27 T24N R56E
County: Richland, MT; **Field (or Wildcat)** Wildcat

Air Quality

(possible concerns)

Long drilling time No, 40-50 days drilling time.
Unusually deep drilling (high horsepower rig) Triple derrick rig 900 HP
Possible H2S gas production 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: Existing pipeline for gas in the area.

Water Quality

(possible concerns)

Salt/oil based mud yes, salt based and/or oil based drilling fluids to be used to drill the main hole.
Surface casing hole to be drilled with freshwater and freshwater mud.
High water table No
Surface drainage leads to live water No, closest ephemeral tributary drainage to Three Buttes Creek ephemeral drainage 1/4 mile to the east and northeast of this location.
Water well contamination None, all wells close by shallower than 1925'. Surface hole will be drilled with freshwater and freshwater mud.
Porous/permeable soils No, gumbo soils
Class I stream drainage No, Class I stream drainages.

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: 1925' is short, need about 1944' of surface casing to cover Fox Hills aquifer.
Adequate surface casing and BOP equipment to prevent problems in and around freshwater slough.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings None
High erosion potential No, moderate cut, up to 26.0' and moderate fill up to 11.4', required.
Loss of soil productivity None, location to be restored after drilling well, if nonproductive. If productive unused portion of wellsite will be reclaimed.

Unusually large wellsite No, large well site 450'X310'

Damage to improvements No, location to be restored after drilling. If productive unused portion of wellsite will be reclaimed.

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 county roads, #134. About 359' of new access is proposed to be built to access this location from the county road.. Oil based muds will be recycled and cuttings will be buried in a lined pit. Any excess fluid left in the reserve pit will be hauled to a commercial

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences residences 1 mile to the west and south of this location.

Possibility of H2S Slight

Size of rig/length of drilling time Triple drilling rig 40 to 50 days drilling time.

Mitigation:

- Proper BOP equipment
- Topographic sound barriers
- H2S contingency and/or evacuation plan
- Special equipment/procedures requirements
- Other: _____

Comments: Adequate surface casing cemented to surface with working BOP stack should mitigate any problems.

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: Private surface

Social/Economic

(possible concerns)

___ Substantial effect on tax base

___ Create demand for new governmental services

___ Population increase or relocation

Comments: No concerns

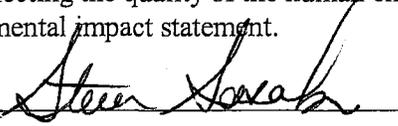
Remarks or Special Concerns for this site

Second horizontal Bakken formation well in this spacing unit.

Summary: Evaluation of Impacts and Cumulative effects

Horizontal Bakken formation well TVD 10,352' MD 19,927'. No long term impacts expected. Some short term impacts will occur. Existing horizontal Bakken well in the W/2 of this section., second well in this spacing unit.

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 19, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology GWIC website

(Name and Agency)

Richland County waterwells

(subject discussed)

May 19, 2006

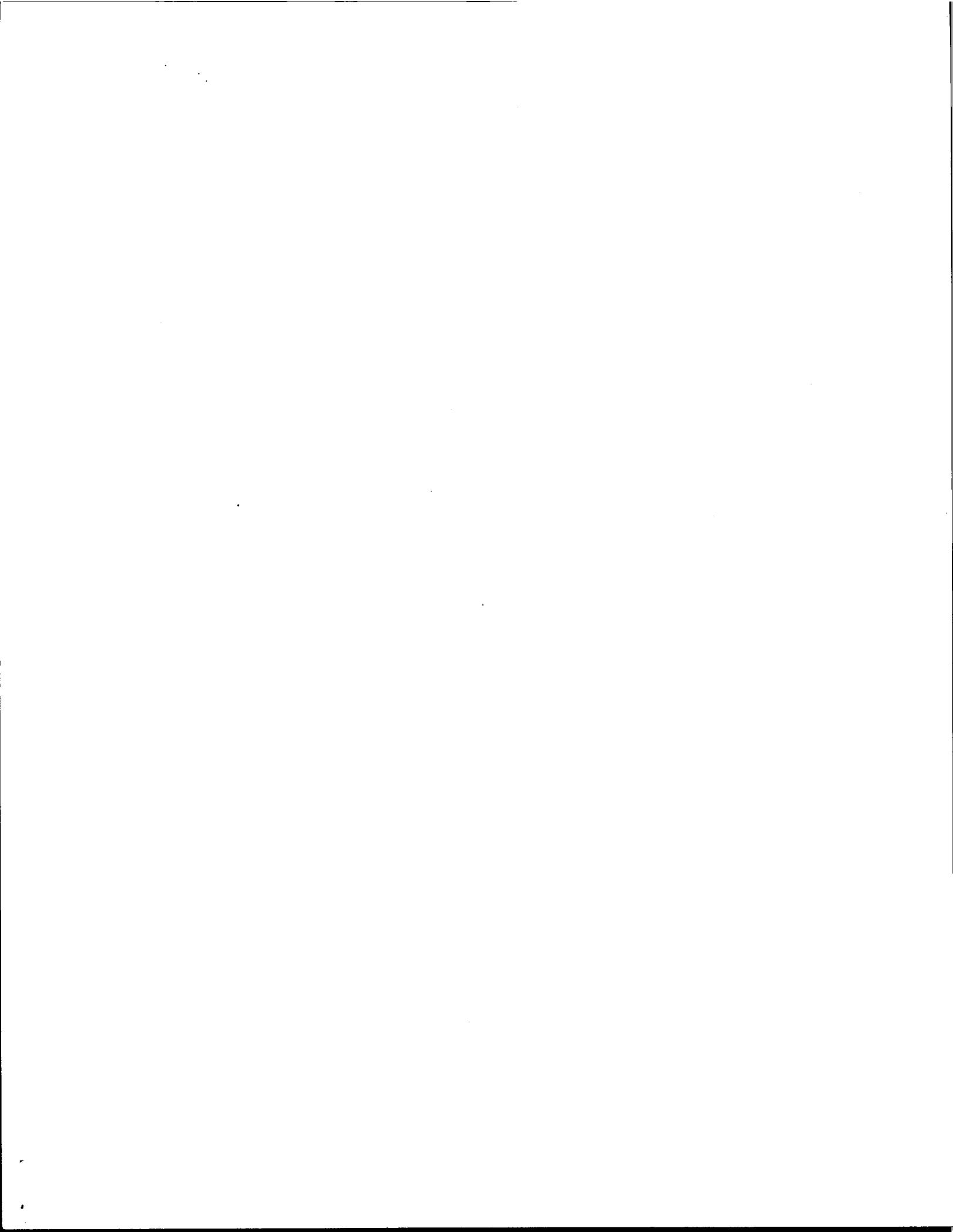
(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____



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

Operator: Bill Barrett Corporation
Well Name/Number: Cyrus 44-30H
Location: SE SE Section 30 T30N R58E
County: Roosevelt, MT; Field (or Wildcat) Wildcat

Air Quality

(possible concerns)

Long drilling time No, 30-40 days drilling time.

Unusually deep drilling (high horsepower rig) Triple derrick rig 900 HP

Possible H₂S gas production Yes, low concentrations.

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: Existing pipeline for gas in the area.

Water Quality

(possible concerns)

Salt/oil based mud yes to long string oil based and salt based drilling fluids. Surface casing and horizontal hole, freshwater, and freshwater mud system to be used.

High water table No

Surface drainage leads to live water No, nearest drainage is East Shotgun Creek ephemeral drainage on the southeast edge of this location, about 1/4 of a mile to the south.

Water well contamination No, no water wells within 1 mile of this location.

Porous/permeable soils No, gumbo soils

Class I stream drainage No, Class I stream drainages.

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: 1500' surface casing well below freshwater zones in adjacent water wells. Also, covering Fox Hills aquifer. Adequate surface casing and BOP equipment to prevent problems in and around freshwater slough.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings None

High erosion potential No, moderate cut of up to 17.0' and moderate fill of up to 27.1', required.

Loss of soil productivity None, location to be restored after drilling well, if nonproductive. If productive unused portion of drillsite will be reclaimed.

Unusually large wellsite No, large well site 290'X380'

Damage to improvements No, location to be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed.

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 county roads and existing two track trails. About 607' of new access road will be built into this location. Cuttings will be buried in the lined reserve pit and either fly ashed or solibonded prior to pit closure. Pit fluids will be recycled or hauled to a commercial disposal.
No concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences Residences 3/4 of a mile to the northeast and 2 miles to the west of this location.

Possibility of H2S Yes, low concentrations.

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: Adequate surface casing cemented to surface with working BOP stack should mitigate any problems.

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, existing access existing two track trails.

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: 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

Horizontal Ratcliffe formation test 8,895' TVD 14,388' TMD

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: May 19, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, Groundwater Information Center website

(Name and Agency)

Roosevelt County water wells

(subject discussed)

May 19, 2006

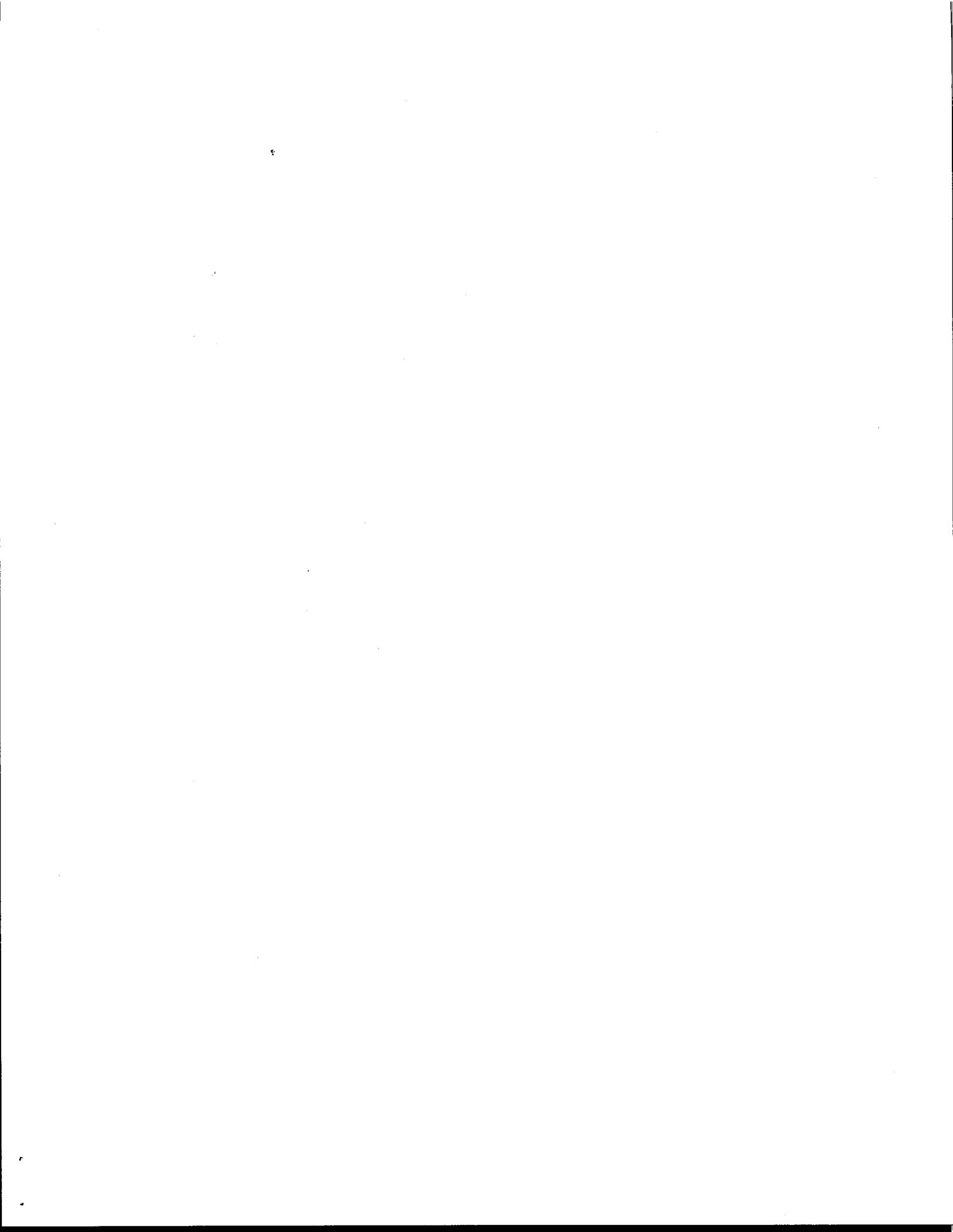
(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____



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

Operator: Enerplus Resources (USA) Corporation
Well Name/Number: Fearless-Dynneson No. 24-2-H
Location: NW NE Section 24T24N R57E
County: Richland, MT; **Field (or Wildcat)** Wildcat

Air Quality

(possible concerns)

Long drilling time No, 40-50 days drilling time.

Unusually deep drilling (high horsepower rig) Triple derrick rig 900 HP, Bakken horizontal MD 19,936' and 10,416' TVD.

Possible H₂S gas production 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: Existing pipeline for gas in the area.

Water Quality

(possible concerns)

Salt/oil based mud yes to long string salt based and oil based drilling fluids. Surface casing hole to be drilled with freshwater and freshwater mud.

High water table No

Surface drainage leads to live water No, closest ephemeral drainage is an unnamed ephemeral tributary drainage to First Hay Creek, about 1/8 of a mile northwest of this location.

Water well contamination No, all water wells close by are shallower than 2050'+/-. No wells closer than 1 mile away.

Porous/permeable soils No, gumbo soils

Class I stream drainage No, Class I stream drainages.

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: 2050'+/- surface casing well below freshwater zones in adjacent water wells. Also, covering Fox Hills aquifer. Adequate surface casing and BOP equipment to prevent problems.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings None

High erosion potential No, location has a moderate, cut of 17.7' and moderate fill of up to 11.9', required.

Loss of soil productivity None, location to be restored after drilling well, if nonproductive. If productive

unused portion of drillsite will be reclaimed.

Unusually large wellsite No, large well site 450'X310'

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: Access will be over existing county roads, #343 and abandoned two track lease road. About 1455' of new access is proposed to be built to access this location from the abandoned lease road.. Oil based muds will be recycled and cuttings will be buried in a lined pit. Any excess fluid left in the reserve pit will be hauled to a commercial disposal. Pit will be allowed to dry and subsoil clays mixed with the cuttings. No concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences No residences within 1 mile of this location.

Possibility of H2S Slight

Size of rig/length of drilling time Triple drilling rig 40 to 50 days drilling time.

Mitigation:

Proper BOP equipment

Topographic sound barriers

H2S contingency and/or evacuation plan

Special equipment/procedures requirements

Other: _____

Comments: Adequate surface casing cemented to surface with working BOP stack should mitigate any problems.

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: Private surface

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: Second Bakken horizontal development well in this section.

Remarks or Special Concerns for this site

Second well in the 1280 acre spacing unit, Section 24 and 25 T24N Rk57E. No concerns

Summary: Evaluation of Impacts and Cumulative effects

TVD 10,416' MD 19,936' Bakken Formation horizontal well. No long term impacts expected, some short term impacts are expected with the drilling of this well.

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 19, 2006

Other Persons Contacted:

(Name and Agency)

Montana Bureau of Mines and Geology, Groundwater Information Center website, Richland County water wells

(subject discussed)

May 19, 2006

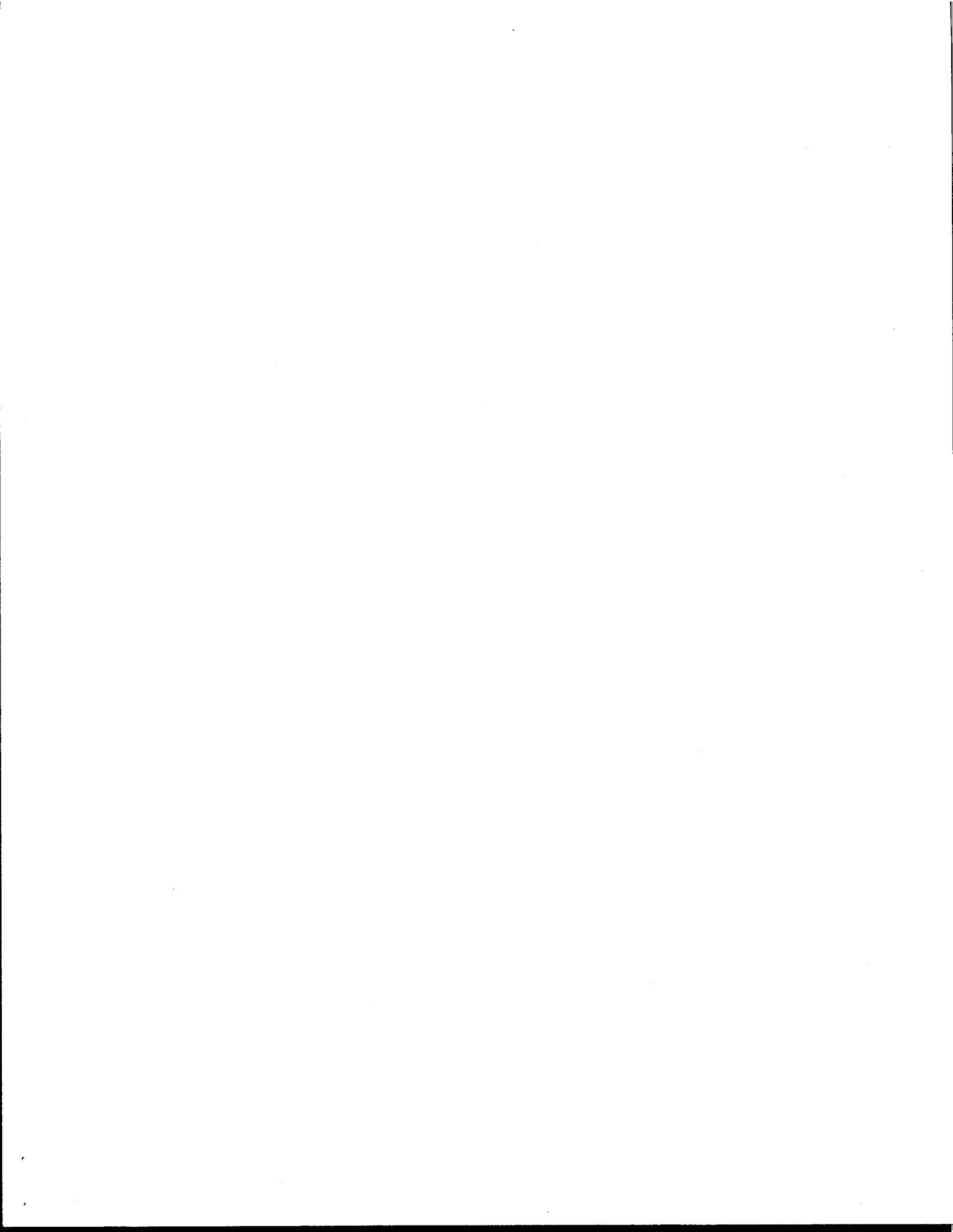
(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____



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

Operator: Enerplus Resources (USA) Corporation
Well Name/Number: Leghorn-Clarence 32-14-H
Location: SE SW Section 32 T23N R58E
County: Richland, MT; Field (or Wildcat) Wildcat

Air Quality

(possible concerns)

Long drilling time No, 30-40 days drilling time.
Unusually deep drilling (high horsepower rig) Triple derrick rig 900 HP
Possible H2S gas production 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: Existing pipeline for gas in the area.

Water Quality

(possible concerns)

Salt/oil based mud yes to long string salt based and oil based drilling fluids. Surface casing hole to be drilled with freshwater and freshwater mud.
High water table No
Surface drainage leads to live water No, closest drainages is an ephemeral tributary drainage to Lone Tree Creek, 1/4 of a mile north of this location.
Water well contamination No, water wells close by. All water wells are shallower than 1850'.
Porous/permeable soils No, gumbo soils
Class I stream drainage No, Class I stream drainages.

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: 1850' surface casing well below freshwater zones in adjacent water wells. Also, covering Fox Hills aquifer. Adequate surface casing and BOP equipment to prevent problems in and around freshwater slough.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings None
High erosion potential No, small cut, up to 1.8' and no fill, required.
Loss of soil productivity None, location to be restored after drilling well if nonproductive. If productive unused portion of drillsite will be reclaimed.

Unusually large wellsite No, large well site 400'X310'

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: Access will be over existing county roads, #124. About 49' of new access is proposed to be built to access this location from the county road.. Oil based muds will be recycled and cuttings will be buried in a lined pit. Any excess fluid left in the reserve pit will be hauled to a commercial

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences residences about 1/2 mile to west and 3/4 of a mile to the east and southeast of this location.

Possibility of H2S Slight

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: Adequate surface casing cemented to surface with working BOP stack should mitigate any problems. Distance sufficient to mitigate noise.

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: 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

Second horizontal Bakken well in this spacing unit.

Summary: Evaluation of Impacts and Cumulative effects

No, long term impacts expected. Some short term impacts will occur.

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 *Steven Sasaki*

(title): Chief Field Inspector

Date: May 19, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, Groundwater Information Center website

(Name and Agency)

Richland County water wells

(subject discussed)

May 19, 2006

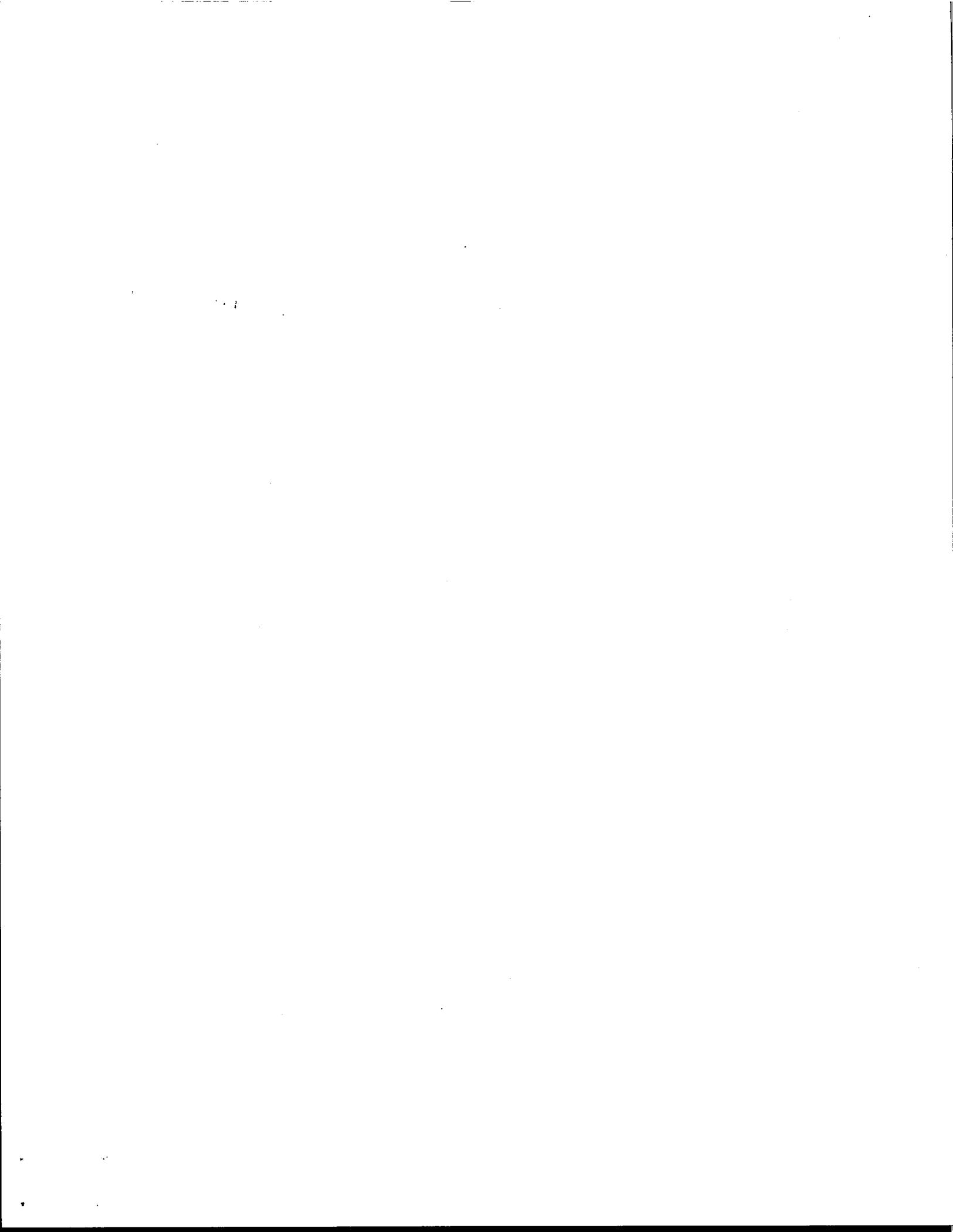
(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____



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

Operator: Fidelity Exploration and Production Company
Well Name/Number: Fee-BR 2645
Location: SE SESection 25 T9N R58E
County: Fallon, MT; **Field (or Wildcat)** Cedar Creek

Air Quality

(possible concerns)

Long drilling time no, 3 to 4 days drilling time.
Unusually deep drilling (high horsepower rig) no, 2000' TD
Possible H2S gas production no
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 2000'

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system.
High water table no
Surface drainage leads to live water no, closest drainage is an unnamed ephemeral tributary drainage which drains into Pennel Creek about 2.5 miles to the southwest. Due south in this ephemeral drainage is what appears to be a pond about 1/8 of a mile south of this location.
Water well contamination None, no water wells within 1 mile of this location.
Production casing if run will be cemented to surface. .
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: 150' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. Production casing will be cemented to surface.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings no

High erosion potential no, small cut, up to 3.8' and small fill, up to 1.9', 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, 120'X190' 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: Access will be along existing county roads and existing field well access roads. A short access into location off existing field road or trail will be built, about 1/2 mile of new access will be created. Drilling fluids will be hauled to a private stock reservoir with surface owner approval or allowed to dry in the earthen pits. Cuttings will be buried in the unlined earthen pits. Pits will restored after they have dried. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences No, residences within 1 mile of this location.

Possibility of H2S none

Size of rig/length of drilling time Small drilling rig/short 3 to 4 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) n/a None identified.

Proximity to recreation sites no

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: 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

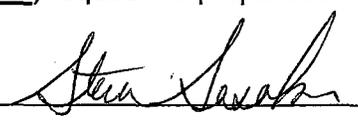
Remarks or Special Concerns for this site

Well is a 2000' Eagle Formation test. This well is within an existing oil and gas field, Cedar Creek.

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur.

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 16, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, Groundwater Information Center

(Name and Agency)

Water wells in Fallon County

(subject discussed)

June 16, 2006 _____
(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

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

Operator: Fidelity Exploration and Production Company
Well Name/Number: Fee-BR 2647
Location: NE SW Section 31 T9N R59E
County: Fallon, MT; **Field (or Wildcat)** Cedar Creek

Air Quality

(possible concerns)

Long drilling time no, 3 to 4 days drilling time.

Unusually deep drilling (high horsepower rig) no, 2000' TD

Possible H2S gas production no

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 2000'

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system.

High water table no

Surface drainage leads to live water no, closest drainage is an unnamed tributary drainage to Pennel Creek about 1/8 of a mile to the southwest of this location. This unnamed drainage then drains to the southwest into Pennel Creek about 2 miles to the southwest.

Water well contamination None, no water wells within 1 mile Production casing if run will be cemented to surface.

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: 150' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. Production casing will be cemented to surface.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings no

High erosion potential no, small cut, up to 9.9' and small fill, up to 8.5', 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, 120'X190' 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: Access off existing county roads and existing well trailst. A short 1/4 mile of new access road will have to be constructed into the location. Drilling fluids will be hauled to a private stock reservoir with surface owner approval or allowed to dry in the earthen pits. Cuttings will be buried in the unlined earthen pits. Pits will restored after they have dried. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences No residences within 1 mile of this location.
Possibility of H2S none
Size of rig/length of drilling time Small drilling rig/short 3 to 4 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) n/a None identified.
Proximity to recreation sites no
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: No concerns

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: no concerns

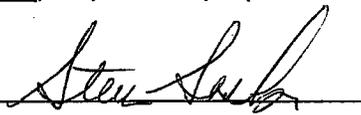
Remarks or Special Concerns for this site

Well is a 2000' Eagle Formation test. A development well in the Cedar Creek gas field.

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur. This well is within an existing oil and gas field, Cedar Creek.

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 16, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, Groundwater Information Center

(Name and Agency)

Water wells in Fallon County

(subject discussed)

June 16, 2006

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

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

Operator: Fidelity Exploration and Production Company
Well Name/Number: Fee-BR 2546
Location: NE NW Section 31 T9N R59E
County: Fallon, MT; **Field (or Wildcat)** Cedar Creek

Air Quality

(possible concerns)

Long drilling time no, 3 to 4 days drilling time.
Unusually deep drilling (high horsepower rig) no, 2000' TD
Possible H2S gas production no
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 2000'

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system.
High water table no
Surface drainage leads to live water no, closest drainage is an unnamed tributary drainage to Pennel Creek about 1/4 of a mile to the southwest of this location. This unnamed drainage then drains to the southwest into Pennel Creek about 2.5 miles to the southwest. In between is what appears to be a stock pond, about 1/2 mile to the northwest in this drainage.
Water well contamination None, no water wells within 1 mile Production casing if run will be cemented to surface.
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: 150' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. Production casing will be cemented to surface.

Soils/Vegetation/Land Use

(possible concerns)

Steam crossings no
High erosion potential no, moderate cut, up to 10.2' and small fill, up to 6.7', 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, 120'X190' 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: Access off existing county roads and existing well trails. A short 18 mile of new access road will have to be constructed into the location. Drilling fluids will be hauled to a private stock reservoir with surface owner approval or allowed to dry in the earthen pits. Cuttings will be buried in the unlined earthen pits. Pits will restored after they have dried. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences No residences within 1 mile of this location.
Possibility of H2S none
Size of rig/length of drilling time Small drilling rig/short 3 to 4 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) n/a None identified.
Proximity to recreation sites no
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: No concerns

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: no concerns

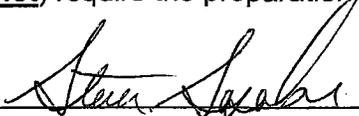
Remarks or Special Concerns for this site

Well is a 2000' Eagle Formation test. A development well in the Cedar Creek gas field.

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur. This well is within an existing oil and gas field, Cedar Creek.

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 16, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, Groundwater Information Center

(Name and Agency)

Water wells in Fallon County

(subject discussed)

June 16, 2006

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

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

Operator: Fidelity Exploration and Production Company
Well Name/Number: State No. BR 22-16
Location: SE NW Section 16 T10N R58E
County: Fallon, MT; **Field (or Wildcat)** Cedar Creek

Air Quality

(possible concerns)

Long drilling time no, 3 to 4 days drilling time.

Unusually deep drilling (high horsepower rig) no, 2000' TD

Possible H₂S gas production no

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 2000'

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system.

High water table no

Surface drainage leads to live water no, Cabin Creek drainage to the northeast of the location about 1/4 of a mile.

Water well contamination None, no water wells within 1 mile of this location.

Production casing if run will be cemented to surface. .

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: 150' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. Production casing will be cemented to surface.

Soils/Vegetation/Land Use

(possible concerns)

Steam crossings no

High erosion potential no, small cut, up to 2.4' and small fill, up to 0.1', 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, 120'X190' 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 off existing county roads and existing well trails. A short 1/8 mile of new access road will have to be constructed into the location. Drilling fluids will be hauled to a private stock reservoir with surface owner approval or allowed to dry in the earthen pits. Cuttings. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences Buildings to the southeast about 3/4 of a mile and southwest of this location 1 mile, may be associated with production facilities and not residences.

Possibility of H2S none

Size of rig/length of drilling time Small drilling rig/short 3 to 4 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) n/a None identified.

Proximity to recreation sites no

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: Montana Trust Lands surface. Trust Lands will do surface

EA.

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: Montana Trust Lands surface. Trust Lands will do surface
EA.

Social/Economic

(possible concerns)
 Substantial effect on tax base
 Create demand for new governmental services
 Population increase or relocation
Comments: no concerns Development well in the Cedar Creek gas
field.

Remarks or Special Concerns for this site

Well is a 2000' Eagle Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No long term effects will occur. Some short term impacts will
occur.

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 16, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, Groundwater Information Center

(Name and Agency)
Water wells in Fallon County

(subject discussed)
June 16, 2006
(date)

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

Others present during inspection:

Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Fidelity Exploration and Production Company
Well Name/Number: Fee-Bidelity/BR No. BR 11-21
Location: NW NW Section 21T10N R58E
County: Fallon, MT; Field (or Wildcat) Cedar Creek

Air Quality

(possible concerns)

Long drilling time no, 3 to 4 days drilling time.
Unusually deep drilling (high horsepower rig) no, 2000' TD
Possible H2S gas production no
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 2000'

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system.
High water table no
Surface drainage leads to live water no, closest drainage is an ephemeral tributary drainage to Cabin Creek, about 1/8 of a mile to south of this location. What appears to be a stock pond lies in this tributary drainage about 1/2 mile to the northeast of this location.
Water well contamination None, closest water well is 3/4 of a mile to the southeast of this location. Production casing if run will be cemented to surface.
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: 150' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. Production casing will be cemented to surface.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings no

High erosion potential no, small cut, up to 3.8' and small fill, up to 1.8', 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, 120'X190' 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: Access off existing county roads and existing well trails. A short 1/2 mile of new access road will have to be constructed into the location. Drilling fluids will be hauled to a private stock reservoir with surface owner approval or allowed to dry in the earthen pits. Cuttings. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences Buildings to the northeast about 3/4 of a mile and about 1/4 mile to the south of this location, may be associated with production facilities and not residences..

Possibility of H2S none

Size of rig/length of drilling time Small drilling rig/short 3 to 4 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) n/a None identified.

Proximity to recreation sites no

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: _____

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 Development well in the Cedar Creek gas field.

Remarks or Special Concerns for this site

Well is a 2000' Eagle Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No long term effects will occur. Some short term impacts will occur.

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 16, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, Groundwater Information Center

(Name and Agency)

Water wells in Fallon County

(subject discussed)

June 16, 2006

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Klabzuba Oil & Gas, Inc.
Well Name/Number: Hanson-Federal 6-13-33-14
Location: SW SW Section 6 T33N R14E
County: Hill, MT; Field (or Wildcat) W/C

Air Quality

(possible concerns)

Long drilling time no, 4 to 5 days drilling time
Unusually deep drilling (high horsepower rig) no, 2700' 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: Existing gas pipelines in the area.

Comments: no special concerns – using small rig to drill to 2700'

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system.
High water table no
Surface drainage leads to live water yes, well location is 3/8 of a mile west of Fresno Reservoir.
Water well contamination no, nearest water well is over 1 mile away..
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: 200' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings no
High erosion potential no, small cut, up to 0.4' and smallfill, up to 2.2', 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.
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 to location will be over existing county gravel roads to within 1.75 miles of this location. Drilling fluids will be trucked to a private stock pond for sealant with surface owner approval. Solids will be allowed to dry in the pits. Pit after drying will be backfilled. No special concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences Residence about 1 mile and 2 miles to the northeast. Fresno Reservoir picnic area and dam about 3.25 miles to the south of this location.

Possibility of H2S none

Size of rig/length of drilling time Small drilling rig/short 4 to 5 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) n/a None identified.

Proximity to recreation sites Fresno Reservoir 3/8 of a mile to the west of this location. Picnic and dam area about 3.25 miles to the south.

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: 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

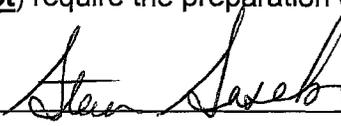
Remarks or Special Concerns for this site

Well is a 2700' Second White Specks Formation test

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected from the drilling of this well. Some short term impacts will occur.

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 12, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology Groundwater Information Center

(Name and Agency)

Water wells in Hill County

(subject discussed)

June 12, 2006

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Noble Energy Inc.
Well Name/Number: Fee 2606 No. 2
Location: NW NE Section 26 T30N R36E
County: Valley, MT; Field (or Wildcat) Vandalia

Air Quality

(possible concerns)
Long drilling time no, 3 to 4 days drilling time.
Unusually deep drilling (high horsepower rig) no, 2400' TD
Possible H2S gas production no
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'

Water Quality

(possible concerns)
Salt/oil based mud no, freshwater and freshwater mud system.
High water table No
Surface drainage leads to live water no, closest drainage is Buffalo Coulee ephemeral drainage, about 1/16 of a mile south of this location.
Water well contamination no, closest water well lies about a 1/4 of a mile to the southwest of this location, but is only 110' in depth. Closest water well below 150', surface casing depth is about 3/8 of a mile to the north of this location.
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: 150' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. Production casing will be cemented to surface.

Soils/Vegetation/Land Use

(possible concerns)
Steam crossings none.
High erosion potential no, small cut, up to 2.4' and small fill, up to 1.9', 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, 140'X200' 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: Access will be over existing county roads, Valleyview county road. About 1/8 of a mile of new access will be built into this location off the county road. Drilling fluids will be disposed of in a private stock pond of Mr. Bill Kuki or allowed to dry in the drilling and reserve pits. Pits will be restored after they are allowed to dry. No special concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences Closest residence is about 3/8 of a mile north of this location.

Possibility of H2S none

Size of rig/length of drilling time Small drilling rig/short 3 to 4 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) 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

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 2400' Phillips Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts expected. The drilling of this well is within the Vandalia gas field.

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 12, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, Groundwater Information Center website.

(Name and Agency)
Water wells in Valley County

(subject discussed)
June 12, 2006

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Klabzuba Oil & Gas, Inc.
Well Name/Number: Reinowski-State 33-3-33-13B
Location: NE NW Section 33 T33N R13E
County: Hill, MT; Field (or Wildcat) W/C

Air Quality

(possible concerns)

Long drilling time no, 3 to 4 days drilling time
Unusually deep drilling (high horsepower rig) no, 2700' TD
Possible H2S gas production no
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 2700'

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system.
High water table no
Surface drainage leads to live water no drainages nearby.
Water well contamination No water wells within 1 mile of this location.
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: 200' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used. If productive 4 1/2" production casing will be run and cemented to surface.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings no
High erosion potential no, small cut, up to 3.8' and no fill, 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.
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 off existing existing county roads. About 800' new access will be created into the well location off existing county road. Cuttings will be buried in the unlined pits. Fluids and drilling muds will be hauled to a nearby stockwater pond to be used as sealant with surface owner approval. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences Farm buildings about 3/8 of a mile to the west, 3/4 of a mile to the west and 1 mile to the southeast of this location.

Possibility of H2S none

Size of rig/length of drilling time Small drilling rig/short 3 to 4 days drilling time

Mitigation:

- Proper BOP equipment
- Topographic sound barriers
- H2S contingency and/or evacuation plan
- Special equipment/procedures requirements
- Other: _____

Comments: Proper BOP equipment should mitigate any problems

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified) n/a__

Proximity to recreation sites 3.5 miles to the northeast is Fresno Reservoir

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: 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

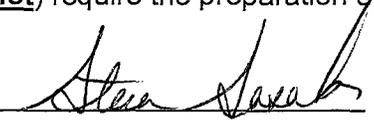
Well is a 2700' Second White Specks Formation test

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur.

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 9, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Hill County water wells

(subject discussed)

June 9, 2006

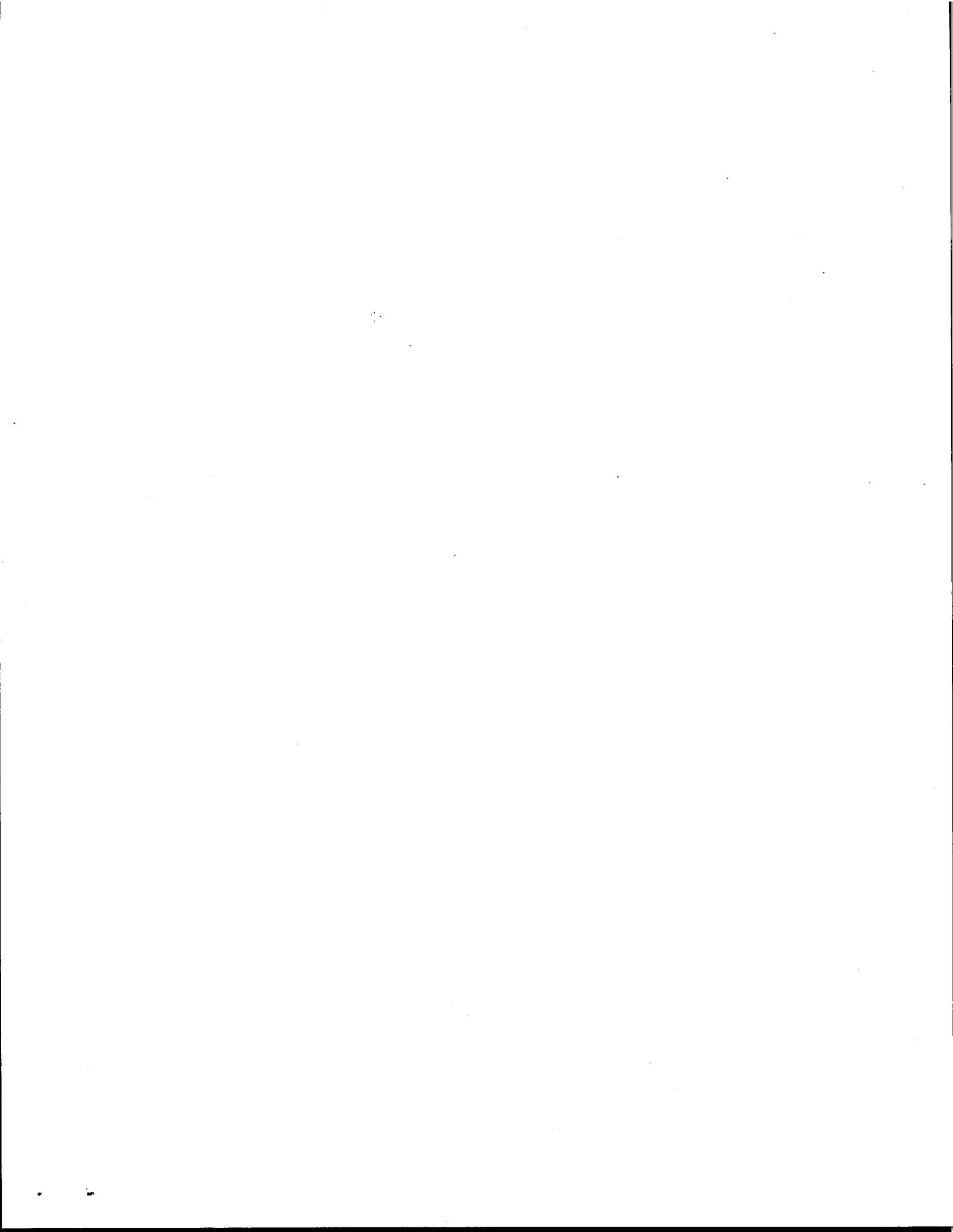
(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____



Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: R&A Oil, Inc.
Well Name/Number: Bailee #1
Location: SE SE Section 18T11N R28E
County: Musselshell, MT; Field (or Wildcat) W/C

Air Quality

(possible concerns)

Long drilling time no, 10 to 14 days drilling time.

Unusually deep drilling (high horsepower rig) no, 3550'TVD

Possible H2S gas production slight

In/near Class I air quality area no

Air quality permit for flaring/venting (if productive) Yes, if productive. DEQ required permit.

Mitigation:

Air quality permit (AQB review)

Gas plants/pipelines available for sour gas

Special equipment/procedures requirements

Other: _____

Comments: no special concerns – using double rig to drill to 3550' TVD

Water Quality

(possible concerns)

Salt/oil based mud No, freshwater and freshwater mud system on surface hole and mainhole.

High water table no

Surface drainage leads to live water No, closest drainage is an unnamed ephemeral tributary drainage to Howard Coulee which is 1/16 of a mile to the east of this location.

Water well contamination no, nearest water well is over 1 mile to the west of this location. Surface casing will be set at 300'. Drilled with freshwater and freshwater muds. Surface casing will be run and cemented to surface from 300'.

Porous/permeable soils no, bentonitic sandy 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: 300' of surface casing cemented to surface adequate to protect freshwater zones.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings no, crossing.

High erosion potential No small cut, up to 0.8' and moderate fill, up to 11.5', 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, 240'X200' 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: Will use existing county road and existing two track trails. About 1/8 of a mile of new access road will be to access this location. Cuttings will be buried in the reserve pit. Drilling fluids will be allowed to dry in the pit. No special concern.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences No buildings or residences within 1 mile of this location.

Possibility of H2S No

Size of rig/length of drilling time double drilling rig/short 10 to 14 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) 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: On private land. 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: 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

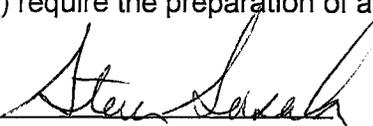
Remarks or Special Concerns for this site

Well is a 3550' TVD Tyler Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No long term impact expected, some short term impacts will occur.

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 13, 2006

Other Persons Contacted:

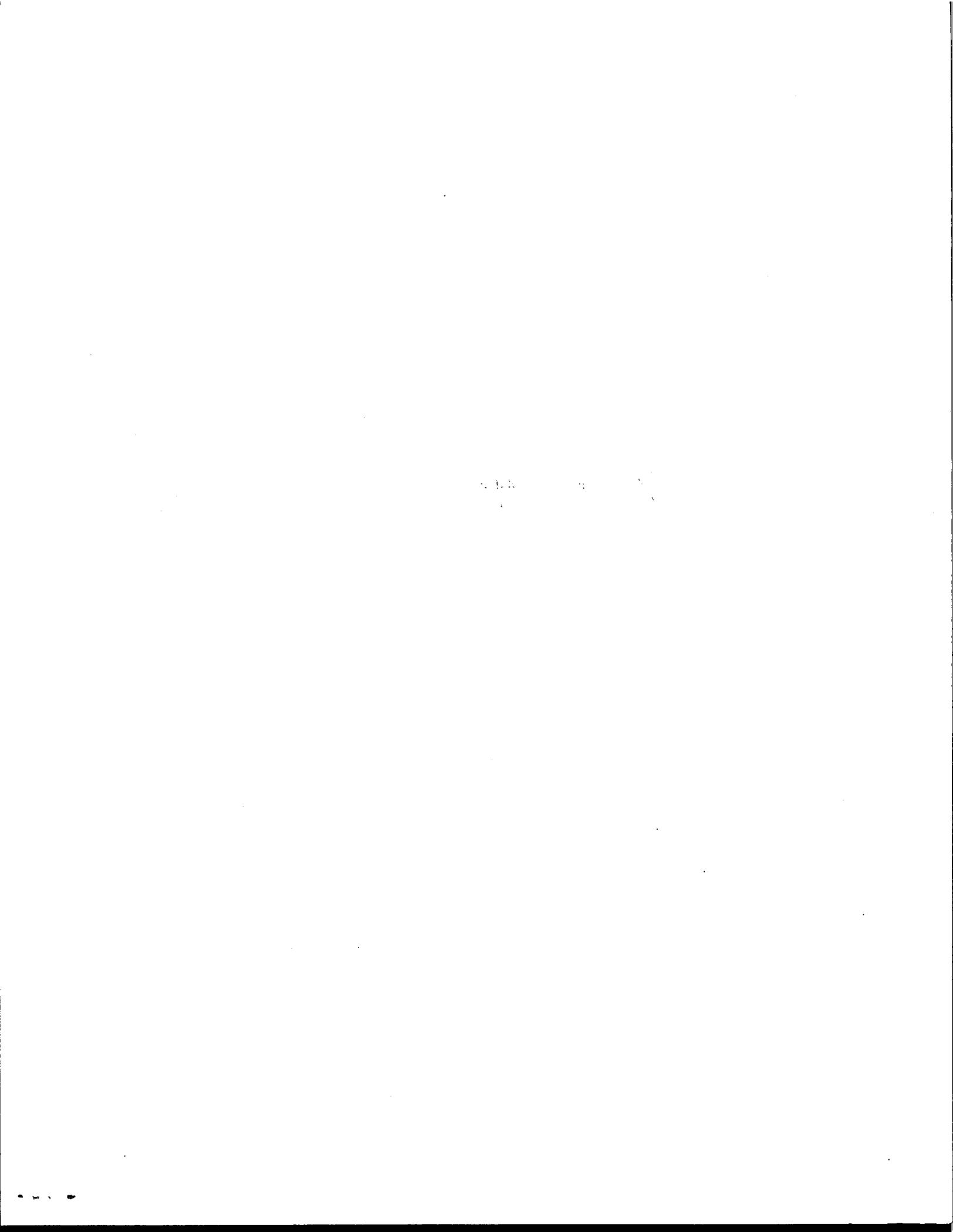
Montana Bureau of Mines and Geology, GWIC website

 (Name and Agency)
Musselshell County water wells

 (subject discussed)
June 13, 2006

 (date)

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



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

Operator: Klabzuba Oil & Gas, Inc.
Well Name/Number: Springer-Federal 32-6-34-14
Location: SE NW Section 32 T34N R14E
County: Hill, MT; **Field (or Wildcat) W/C**

Air Quality

(possible concerns)
Long drilling time no, 4 to 5 days drilling time
Unusually deep drilling (high horsepower rig) no, 2700' TD
Possible H2S gas production no
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 2700'

Water Quality

(possible concerns)
Salt/oil based mud no, freshwater and freshwater mud system.
High water table no
Surface drainage leads to live water yes, Browns Coulee ephemeral drainage leads directly to Fresno Reservoir, about 2 miles to the west of this location.
Water well contamination no, nearest water well is over 1 mile away. This drilling location should not effect this water well. In the event this well is successful casing will be run and cemented to surface.
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: 200' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used.

Soils/Vegetation/Land Use

(possible concerns)
Steam crossings no
High erosion potential no, small cut, up to 5.2't and small fill, up to 12.7', 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, about 132'X208' 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: Access to location will be over existing county gravel roads and existing two track trail. Drilling fluids will be trucked to a private stock pond for sealant with surface owner approval. Solids will be allowed to dry in the pits. Pit after drying will be backfilled. No special concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences Residence about 3/4 of a mile to the southwest and 7/8 of a mile to the southeast of this location.

Possibility of H2S none

Size of rig/length of drilling time Small drilling rig/short 4 to 5 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) n/a None identified.

Proximity to recreation sites Fresno Reservoir about 1.5 miles to the west.

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: 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

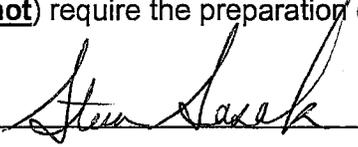
Remarks or Special Concerns for this site

Well is a 2700' Second White Specks Formation test

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur.

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 12, 2006

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)

Water wells in Hill County, 2/07/05

(subject discussed)

June 12, 2006

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Klabzuba Oil & Gas, Inc.
Well Name/Number: McSloy 11-13-33-14
Location: SW SW Section 11 T33N R14E
County: Hill, MT; Field (or Wildcat) W/C

Air Quality

(possible concerns)

Long drilling time no, 4 to 5 days drilling time
Unusually deep drilling (high horsepower rig) no, 2700' TD
Possible H2S gas production no
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 2700'

Water Quality

(possible concerns)

Salt/oil based mud no, freshwater and freshwater mud system.
High water table no
Surface drainage leads to live water yes, well location is close Davenport Coulee ephemeral drainage which then drains to Sherry Coulee ephemeral drainage and finally drains the Milk River, about 2.75 miles south of the well location.
Water well contamination no, nearest water wells over 1 mile from this location. In the event this well is successful casing will be run and cemented to surface.
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: 200' of surface casing cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings no
High erosion potential no, small cut, up to 0.4' and small fill, up to 0.6', 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, 200'X200' 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: Access to location will be over existing county gravel roads and existing two track trails. A short 1/4 mile of new access will be built into this location. Drilling fluids will be trucked to a private stock pond for sealant with surface owner approval. Solids will be allowed to dry in the pits. Pit after drying will be backfilled. No special concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences None nearby. Closest residence is 1 mile to the northwest of this location.

Possibility of H2S none

Size of rig/length of drilling time Small drilling rig/short 4 to 5 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) n/a None identified.

Proximity to recreation sites Fresno Reservoir 4 miles to the west of this 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

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

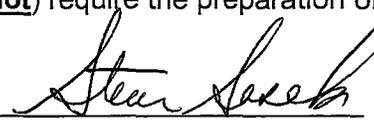
Remarks or Special Concerns for this site

Well is a 2700' Second White Specks Formation test

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur.

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 12, 2006

Other Persons Contacted:

(Name and Agency)

Montana Bureau of Mines and Geology Groundwater Information Center

(subject discussed)

Water wells in Hill County,

June 12, 2006

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____