

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

**Operator:** Highline Exploration, Inc.  
**Well Name/Number:** Buzzetti-Corkins Trust 120-23  
**Location:** NW SE Section 23 T1S R32E  
**County:** Big Horn, MT; Field (or Wildcat) Toluca

**Air Quality**

(possible concerns)

Long drilling time: No, 2 to 3 days drilling time.

Unusually deep drilling (high horsepower rig): No, a small single derrick drilling rig to drill to 870' TD.

Possible H2S gas production: None

In/near Class I air quality area: No, not in a Class I air quality area.

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 single rig to drill to 870' TD.

**Water Quality**

(possible concerns)

Salt/oil based mud: No, plan is to air drill the well.

High water table: No

Surface drainage leads to live water: Yes, closest drainage is Peritsa Creek, about 265' to the west. A stock pond exists about 3/10 of a mile to the northeast.

Water well contamination: No, closest water wells are 1/2 of a mile to the northwest, 3/10 of a mile to the northwest", and 1/4 of a mile to the southeast. Depths of these wells range from 2,350' to 4,000'. All other wells are over 1 mile away. Surface casing will be set at 150'. Drilled with freshwater and freshwater mud. Surface casing will be run and cemented to surface from 150'. Total depth of this well will be 870'.

Porous/permeable soils: No, silty sandy bentonitic 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.

**Soils/Vegetation/Land Use**

(possible concerns)

Stream crossings: No, stream crossings.

High erosion potential: No, cut or fill needed. Small single self leveling rig will be used.

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, 100'X100' location size required.

Damage to improvements: No, surface use is cultivated land.

Conflict with existing land use/values: Slight

Mitigation

Avoid improvements (topographic tolerance)

Exception location requested

Stockpile topsoil

Stream Crossing Permit (other agency review)

Reclaim unused part of wellsite if productive

Special construction methods to enhance reclamation

Other

Comments: Will use existing county freeway frontage road and existing ranch/well access road. Cutting will be buried in the earthen pits. Pits will be backfilled when dry. No special concern.

### Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence is 3/5 of a mile to the northwest. All other residences are 1 mile or further away from this location and the town of Hardin is about 5 miles to the east of this location.

Possibility of H2S: None

Size of rig/length of drilling time: Single drilling rig 2 to 3 days drilling time

Mitigation:

Proper BOP equipment

Topographic sound barriers

H2S contingency and/or evacuation plan

Special equipment/procedures requirements

Other: Will use a diverter instead of a BOP. Due to the low pressure gas zone anticipated.

Comments: No concerns

### Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: None identified.

Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No

Threatened or endangered Species: Species identified as threatened or endangered is the Black-footed Ferret. Candidate species are the Greater Sage Grouse and the Sprague's Pipit. MTFWP Natural Heritage Tracker website indicates four (4) species of concern: Black-tailed Prairie Dog, Greater Sage-Grouse, Western Hog-nosed Snake, and the Milksnake.

Mitigation:

Avoidance (topographic tolerance/exception)

Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite

Other: \_\_\_\_\_

Comments: On private lands. No concerns

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**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 lands. No concerns.

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**Social/Economic**

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: On private lands. No concerns

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**Remarks or Special Concerns for this site**

Well is an 870' Frontier (Belle Fourche) Formation test.

**Summary: Evaluation of Impacts and Cumulative effects**

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

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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): John Gizicki

(title:) Compliance Specialist

Date: September 26, 2014

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Water wells in Big Horn County

(subject discussed)

September 26, 2014

(date)

US Fish and Wildlife, Region 6 website

(Name and Agency)

ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES

MONTANA COUNTIES, Richland County

(subject discussed)

September 26, 2014 \_\_\_\_\_

(date)

Montana Natural Heritage Program Website (FWP)

(Name and Agency)

Heritage State Rank= S1, S2, S3, T1S R32E

(subject discussed)

September 26, 2014 \_\_\_\_\_

(date)

Montana Cadastral Website

(Name and Agency)

Surface Ownership and surface use Section 23 T1S R32E

(subject discussed)

September 26, 2014 \_\_\_\_\_

(date)

If location was inspected before permit approval:

Inspection date: \_\_\_\_\_

Inspector: \_\_\_\_\_

Others present during inspection: \_\_\_\_\_