

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

Operator: Cobra Oil & Gas Corporation
Well Name/Number: Dethman 223052 #1
Location: SE NE Section 22 T30N R52E
County: Roosevelt, MT; **Field (or Wildcat)** W/C

Air Quality

(possible concerns)

Long drilling time: No, 20 days drilling time.
Unusually deep drilling (high horsepower rig): No, 8,800' MD/TVD Nisku Formation test.
Possible H2S gas production: Yes
in/near Class I air quality area: No
Air quality permit for flaring/venting (if productive): Yes, if productive, with associated gas, and no sour gas pipeline nearby. DEQ air quality regulation.

Mitigation:

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

Comments: No special concerns – using triple rig to drill to 8,800' MD/TVD

Water Quality

(possible concerns)

Salt/oil based mud: Yes, freshwater and freshwater mud system on surface hole and saltwater mud system on mainhole.
High water table: No
Surface drainage leads to live water: No, an unnamed ephemeral drainage to Spring Creek is 330' to the east from location
Water well contamination: No water wells within a 1 mile radius. Surface casing will be set at 1600'. Drilled with freshwater and freshwater muds. Surface casing will be run and cemented to surface from 1600'.
Porous/permeable soils: Yes, sandy gravelly 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: 1600' of surface casing cemented to surface adequate to protect freshwater zones.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings: No, stream crossing.
High erosion potential: No, location requires a small cut of 9.1' and a moderate fill of 13.5'.

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'X350' location size required.

Damage to improvements: Slight, surface use appears to be cultivated fields.

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 Hwy 344. About 358' of new access road will be built to access this location. Drilling fluids will be disposed of in an approved disposal well. Cuttings will be dried and transported to an approved disposal facility. No special concern.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest buildings are 2/5 of a mile to the north and 1.2 miles to the south of this location. Location is located inside the exterior boundary of the Fort Peck Indian Reservation.

Possibility of H2S: Slight

Size of rig/length of drilling time: Triple drilling rig/short 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): No Concerns

Proximity to recreation sites: No concerns.

Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No

Threatened or endangered Species : Threatened or endangered species in Roosevelt County are listed as the Pallid Sturgeon, Piping Plover, Interior Least Tern, Whooping Crane, Red Knot, and Candidate species is the Sprague's Pipit.

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. No concerns.

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: On private land. No concerns.

Remarks or Special Concerns for this site

Well is a 8,800' MD/ TVD Nisku 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): John Gizicki

(title:) Compliance Specialist

Date: August 7, 2015

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Water wells in Roosevelt County

(subject discussed)

August 7, 2015

(date)

US Fish and Wildlife, Region 6 website

(Name and Agency)

ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA

COUNTIES, Roosevelt County

(subject discussed)

August 7, 2015

(date)

Montana Natural Heritage Program Website (FWP)

(Name and Agency)

Heritage State Rank= S1, S2, S3, T30N R52E

(subject discussed)

August 7, 2015

(date)

Montana Cadastral Website

(Name and Agency)

Surface Ownership and surface use Section 22 T30N R52E

(subject discussed)

August 7, 2015

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____