

# CHECKLIST ENVIRONMENTAL ASSESSMENT

**Proposed Action:** Approve Drilling Permit (Form 22)

**Project/Well Name:** Anna 5-6-1 #4H

**Operator:** Kraken Operating LLC

**State:** Montana

**Location:** SWNW T24N R58E Sec. 9

**County:** Richland

**Field (or Wildcat):** Wildcat

**Proposed Project Date:** TBD

## I. DESCRIPTION OF ACTION

Triple derrick drilling rig to drill a single lateral horizontal Bakken Formation test, 26,130' MD/10,420' TVD.

## II. PROJECT DEVELOPMENT

### A. PUBLIC INVOLVEMENT, AGENCIES, GROUPS, OR INDIVIDUALS CONTACTED

10 days from public notification opportunity to protest for hearing:

- Published in the Helena Independent Record on 12/20/2025.
- Published in the Roundup on 12/24/2025.

A protest was received on 12/30/2025. The protest was withdrawn.

Montana Bureau of Mines and Geology, GWIC website (Richland County Wells).

US Fish and Wildlife, ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA COUNTIES, Richland County

Montana Natural Heritage Program Website (FWP)  
Heritage State Rank= S1, S2, S3, T24N R58E

Montana Cadastral Website  
Surface Ownership and surface use Section 9 T24N R58E

Montana Department of Natural Resources MEPA Submittal

USDA Natural Resources Conservation Service-Soils Map

### B. ALTERNATIVES CONSIDERED

**No Action Alternative:** Permit to drill the well would not be issued by BOGC.

**Action Alternative:** Referred to the BOGC for further environmental review.

### III. IMPACTS ON THE PHYSICAL ENVIRONMENT

#### A. AIR QUALITY

**Long drilling time:** No, 5-10 days.

**Unusually deep drilling (high horsepower rig):** No

**Emission sources:** Vehicles traveling on county road to location, combustion engines on location during drilling operations. Fugitive dust from traveling operations and location during active drilling.

**Possible H<sub>2</sub>S gas production:** Potentially in Mississippian formations.

**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. AQB review.

**Comments:** No special concerns – Triple derrick drilling rig to drill a single lateral horizontal Bakken Formation test, 26,130' MD/10,420' TVD. If there are no gas gathering systems nearby, associated gas can be flared under Board Rule 36.22.1220.

#### B. WATER QUALITY

**Salt/oil-based mud:** Steel surface casing hole will be drilled with freshwater and freshwater mud system to 1870', Rule 36.22.1001. Will drill with oil-based invert drilling fluids for the intermediate casing hole. Horizontal hole will be drilled with saltwater.

**High water table:** No.

**Surface drainage leads to live water:** There is an unnamed ephemeral drainage approximately 3334' southwest. There are stock ponds along this drainage. There are also ponds located approximately 1854' to the southeast and 2255' to the northeast.

**Water well contamination:** There are eight water wells within a ½ miles radius. There is a domestic well approximately 1614' east with a total depth of 295' and static water level of 80.2'. There is a Geotech well approximately 2021' northeast with a total depth of 30.5'. There is a Geotech well approximately 2061' southeast with a total depth of 36.4'. There is a stockwater well approximately 2302' southeast with a total depth of 209' and a static water level of 109'. There is a well approximately 2306' northeast that has no assigned use or well test data details. There is a Geotech well approximately 2296' northeast with a total depth of 36.4' and a static water level of 27.8'. There is a well approximately 2369' northeast that has no assigned use of well test data details. There is an industrial well approximately 2432' northeast with a total depth of 1720' and a static water level of 187'. The surface hole will be drilled with freshwater and freshwater mud to 1870' and steel surface casing will be run and cemented back to the surface to protect groundwater.

**Porous/permeable soils:** No, clay loam.

**Class I stream drainage:** None.

**Groundwater vulnerability area:** 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:** Steel surface casing will be run to 1870' and cemented back to surface to protect freshwater zones (Fox Hills aquifer) in adjacent water wells, Rule 36.22.1001. Adequate surface casing and BOP equipment to prevent problems, (5,000 psi annular and double ram), Rule 36.22.1014.

#### C. SOILS/VEGETATION/LAND USE

**Vegetation:** Grassland/grazing land.

**Stream crossing:** None anticipated.

**Erosion potential:** Moderate, cut of up to 14.4' and fill of up to 14.7'.

**Loss of soil productivity:** No, location will be restored after drilling if unproductive.

**Unusually large wellsite (Describe dimensions):** A well site of 537' X 465' required for a five-well pad.

**Damage to improvements:** Slight, to grassland/grazing 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

**Access road:** Access will be from a +/-1991' proposed road from Highway 16 approximately 12.2 miles north of Sidney, MT.

**Drilling fluids/solids:** Kraken Operating LLC will not be utilizing a drilling pit. Drilling fluids and solids will be transported to a state approved disposal facility.

**Comments:**

## D. HEALTH HAZARDS/NOISE

**Proximity to public facilities/residences:** There are no occupied structures within a ¼ mile radius. The closest occupied structure is approximately 1.13 miles southwest in NESE Section 18 T24N R58E.

**Possibility of H2S:** Possibility in Mississippian formations.

**Size of rig/length of drilling time:** 5-10 days.

**Mitigation:**

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

## E. WILDLIFE/RECREATION

**Sage Grouse:** No.

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

**Proximity to recreation sites:** None.

**Creation of new access to wildlife habitat:** No.

**Conflict with game range/refuge management:** No.

**Threatened or endangered species within 5 miles:** Loggerhead Shrike, Whooping Crane, and Bobolink.

**Mitigation:**

- Avoidance (topographic tolerance/exception)
- Other agency review (DFWP, federal agencies, DNRC Trust Lands)
- Screening/fencing of pits, drillsite
- Other:

**Comments:** Grassland/grazing land. There may be species of concern that may be impacted by this wellsite. We ask the operator to consult with the surface owner as to what he would like done if a species of concern is discovered at this location. The Board of Oil & Gas has no jurisdiction over private surface lands. No concerns.

## IV. IMPACTS ON THE HUMAN POPULATION

### A. HISTORICAL/CULTURAL/PALEONTOLOGICAL

**Proximity to known sites:**

**Mitigation:**

- Avoidance (topographic tolerance, location exception)
- Other agency review (SHPO, DNRC Trust Lands, federal agencies)

**Other:** The Board of Oil & Gas has no jurisdiction over private surface lands.

### B. SOCIAL/ECONOMIC

**Substantial effect on tax base:**

- Create demand for new governmental services
- Population increase or relocation

**Comments:** No concerns.

## IV. SUMMARY

No long-term impacts expected. Some short-term impacts will occur but can be mitigated. 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.

**EA Checklist  
Prepared By:**

**Name:** Allison YoungSwallow  
**Title:** Compliance Technician

**Date:** 3/5/2026