CHECKLIST ENVIRONMENTAL ASSESSMENT

Proposed Action: Approve Drilling Permit (Form 22) Project/Well Name: Stella 1-12-13-24 1H Operator: Kraken Operating LLC State: Montana Location: SESW Section 34 T25N R58E County: Richland Field (or Wildcat): Wildcat Proposed Project Date: 7/14/2025

I. DESCRIPTION OF ACTION

Triple derrick drilling rig to drill a single lateral horizontal Bakken Formation test, 28,148'/10,532'TVD.

II. PROJECT DEVELOPMENT

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

10 day from public notification opportunity to protest for hearing:

Published in Helena Independent Record on 5/31/2025. Published in The Roundup on 6/4/2025.

No written demand for hearing has been filed per ARM 36.22.601 as of 6/16/2025.

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, T25N R58E

Montana Cadastral Website Surface Ownership and surface use Section 34 T25N R58E

Montana Department of Natural Resources MEPA Submittal

USDA Soil Survey Website.

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 Hwy 201, CR 347, and access road to location, combustion engines on location during drilling operations. Fugitive dust from traveling operations and location during active drilling. Possible H2S 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, 28,148'/10,532'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: Surface casing hole will be drilled with freshwater and freshwater mud system, Rule 36.22.100.1. 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: Headwaters of ephemeral drainage to Second Hay Creek which is 2.25 miles to the Northeast.

Water well contamination: 1 water well approximately within ¹/₄ mile of location. Well is directly south of location is a domestic well with total depth of 245' and static water level of 160'.

Porous/permeable soils: No, Sandy Clay Loam soils. Class I stream drainage: None. Groundwater vulnerability area: No. Mitigation: ______ Lined reserve pit X Adequate surface casing ______ Berms/dykes, re-routed drainage

 \underline{X} Closed mud system

<u>X</u> Off-site disposal of solids/liquids (in approved facility) Other: Comments: Surface hole will be drilled with a freshwater mud system to 1970'. Steel surface casing will be run to 1970' and cemented back to surface to protect freshwater zones in adjacent water wells, Rule 36.22.1001. Also, covering Fox Hills aquifer. 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: Grasslands.

Stream crossings: None anticipated.

High erosion potential: Yes, cut 32.5' and fill of 29.7.

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

Unusually large wellsite (Describe dimensions): Well site is 538'X 624' required for a 5 well pad.

Damage to improvements: Slight, grasslands.

Conflict with existing land use/values: No.

Mitigation

- ____ Avoid improvements (topographic tolerance)
- ___ Exception location requested
- X 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 West from CR 347. New access road of 1,515 east from CR 347.

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.

D. HEALTH HAZARDS/NOISE

Proximity to public facilities/residences: No occupied structures within a 1/4-mile radius. Closest occupied structure is $\frac{1}{2}$ mile southeast in section 1 T24N R58E. The town of Fairview, MT is 8 miles to the east of location. The town of Sidney, MT is 10 miles to the southeast of location.

Possibility of H2S: Possibility in Mississippian formations.

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

Mitigation:

- <u>X</u> 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: Richland County are the Pallid Sturgeon, Sicklefin Chub, Interior Least Tern, Whooping Crane, Piping Plover, and the Northern Long-eared Bat.

Mitigation:

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

Comments: Private grasslands. There may be species of concern that maybe 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/<u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/<u>does not</u>) require the preparation of an environmental impact statement.

EA Checklist Prepared By:			Date:	7/2025
	Title:	Technical Program Coordinator		