CHECKLIST ENVIRONMENTAL ASSESSMENT

Proposed Action: Approve Drilling Permit (Form 22)

Project/Well Name: Bell Creek 35-09X **Operator:** Denbury Onshore, LLC

Location: T8S, R54E, Sec 35 NE SE

County: Powder River MT; Field (or Wildcat): Bell Creek

Proposed Project Date: 10/01/2022

I. DESCRIPTION OF ACTION

Denbury plans to drill a horizontal well as a producer in the tertiary CO2/Waterflood program. The TVD of this well is 4,490' and MD is 5,002'. Objective formation is the Muddy Sandstone. Solids will be contained in metal pits and then hauled to a licensed disposal facility. Surface casing to be set at 780' and will be cemented back to surface.

II. PROJECT DEVELOPMENT

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

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

US Fish and Wildlife, Region 6 website ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA COUNTIES, Powder River County

Montana Natural Heritage Program Website (FWP) Heritage State Rank= S1, S2, S3, T8S R54E

Montana Cadastral Website Surface Ownership and surface use Section 35 T8S R54E

Montana Department of Natural Resources MEPA Submittal

2. ALTERNATIVES CONSIDERED

No Action Alternative: The proposed well would not be drilled.

Action Alternative: Denbury would have permission to drill well.

III. IMPACTS ON THE PHYSICAL ENVIRONMENT

3. AIR QUALITY

Long drilling time: No.

Unusually deep drilling (high horsepower rig): No.

Possible H2S gas production: None anticipated

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 – using rig to drill to 4,490' TVD, 5,002' MD. If there are no gas gathering systems nearby, associated gas can be flared under Board Rule 36.22.1220.

4. WATER QUALITY

Salt/oil based mud: Freshwater and freshwater mud system for drilling surface hole (Rule 36.22.1001).

Freshwater mud system for intermediate and horizontal sections.

High water table: No

Surface drainage leads to live water: No. An unnamed ephemeral drainage and stock pond are located about 3/10 of a mile to the south.

Water well contamination: No water wells within a ½ mile radius.

Porous/permeable soils: No, sandy clay.

Class I stream drainage: No.

Groundwater vulnerability area: No.

Mitigation:

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

Comments:

5. SOILS/VEGETATION/LAND USE

Vegetation: Grassland. Stream crossings: No

High erosion potential: Potentially, medium cut of 12.1' and no fill required.

Loss of soil productivity: No

Unusually large wellsite (Describe dimensions): No. A location of 300' X 225'.
Damage to improvements: No. Conflict with existing land use/values: None. 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: Existing access road and a new access of about 90' will be built into location.
Drilling fluids/solids: Solids will be contained in metal pits and then hauled to a licensed disposal facility.
6. HEALTH HAZARDS/NOISE
Proximity to public facilities/residences: No residences within a ½ mile radius. Possibility of H2S: None anticipated. Size of rig/length of drilling time: 3 to 5 days. Mitigation:
7. WILDLIFE/RECREATION
Sage Grouse: General Habitat. 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: Species listed as endangered or threatened are the Whooping Crane, Pallid Sturgeon, Black-footed Ferret, and the Northern Long-eared Bat. The Montana Natural Heritage Program lists three (3) species of concern: the Black-tailed Prairie Dog, Greater Sage-Grouse, and the Ferruginous Hawk.
Mitigation: Avoidance (topographic tolerance/exception) X_Other agency review (DFWP, federal agencies, DNRC Trust Lands, Sage Grouse Habitat Conservation Program)

Screening/fencing of pits, drillsite Other:					
Comments: Private grazing surface lands. 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.					
lands. No concerns.					
IV. IMPACTS ON THE HUMAN POPULATION					
8. HISTORICAL/CULTURAL/PALEONTOLOGICAL					
Proximity to known sites: Mitigation avoidance (topographic tolerance, location exception) other agency review (SHPO, DNRC Trust Lands, federal agencies)					
Other:					
9. SOCIAL/ECONOMIC					
Substantial effect on tax base Create demand for new governmental services Population increase or relocation Comments: No concerns.					

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.

IV. SUMMARY

EA Checklist Prepared By:	Name:	John Gizicki	Date:	09/20/22
	Title:	Compliance Specialist		