

QUALITATIVE VEGETATION SURVEY

PREPARED FOR: PDC ENERGY, INC.



Location: Hazen 23-28

COGCC API ID #: 05-123-22891

Legal Description: NESW 28 7N 65W

County: Weld

Date of Assessment: August 18, 2020

Date Prepared: October 9, 2020

Purpose:

The Hazen 23-28 well pad (API # 05-123-22891) was inspected by reclamation scientists from Duraroot, LLC (Duraroot) on August 18, 2020 to assess reclamation status and prepare the location for Form 4, Sundry Notice submission for request of final reclamation field inspection. If the location does not meet Rule 1004 standards, a prescriptive management plan will be prepared.

In preparation for final reclamation, the former Hazen 23-28 well pad has been plugged and abandoned (P&A – 12/22/2017). All facility equipment and debris have been removed from the location. The location soils have been re-graded to approximate original contours, decompacted, stockpiled topsoil re-applied, and returned to agricultural productivity. Reclamation efforts have been performed to the same standards established for interim reclamation under Rule 1003. control has been implemented to control undesirable plant species, including noxious weeds

Methodology:

Scientists from Duraroot surveyed the Hazen 23-28 location on August 18, 2020, to assess the current reclamation status of the location including corn height, color, and growth stage. Additionally, Duraroot walked the location perimeter to visually assess for the presence of road base, subsidence, and undesirable plant growth (i.e. weed species). Duraroot collected qualitative vegetation data to estimate the corn growth on- and off-site during the field investigation. Crop growth was visually assessed for undisturbed areas for reference vegetation levels.

Conclusions and Recommendations:

Based on qualitative vegetation data, corn growth on the Hazen 23-28 location is less than equivalent and showed stunted growth compared to adjacent, reference areas. Vegetative cover by undesirable species was not observed during the vegetation survey. It is recommended that PDC delay submittal of the Form 4 Sundry application to the Colorado Oil and Gas Commission (COGCC), as required by the 1000 Series Rules and Regulations (1004.c.). A prescriptive management plan should be prepared and the location should be re-evaluated in 1 to 2 years.

QUALITATIVE VEGETATION PHOTOS



Photo 1. The Hazen 23-28 location facing west at the location and adjacent reference area, August 18, 2020.



Photo 2. The Hazen 23-28 location facing west at the location and adjacent reference area, August 18, 2020.



Photo 3. The Hazen 23-28 location facing west at the location and adjacent reference area, August 18, 2020.



Photo 4. The Hazen 23-28 location facing west at the location and adjacent reference area, August 18, 2020.