

FOURTH QUARTER REPORT

To: Dwight D. Keen, Chair
Susan K. Duffy, Commissioner
Andrew J. French, Commissioner

From: Ryan A. Hoffman, Director, Conservation Division

Date: 12/27/2022

Re: Docket No. 20-CONS-3219-CINV

BACKGROUND

On February 6, 2020, the Commission opened an investigative docket for the purpose of “(1) keeping the public and the Commission apprised of the investigation of Commission Staff into the causes of increased seismic activity occurring in Rooks County; and (2) providing a forum by which the Commission may take any advisable action as it relates to increased seismic activity in Rooks County.”¹ This is the fourth quarterly report of 2022.

REPORT

A. Injection Volumes

Class II volumes for calendar year 2021 were required to be provided by March 1, 2022, and will not be updated in this report due to the limited amount of seismic activity in the investigative area.

B. Earthquakes

According to data obtained from the Kansas Geological Survey, there were three earthquakes in the investigative area between October 1, 2022 and December 21, 2022². The dates and magnitudes of the earthquakes are listed in the table below.

Magnitude	Date
2.5	October 16, 2022
2.5	October 16, 2022
2.3	October 27, 2022

¹ Docket No. 20-CONS-3219-CINV, ¶A, p. 2.

² http://maps.kgs.ku.edu/earthquake_mini_viewer/

Recommendation

At this time, Staff makes no recommendation for further Commission action related to the seismicity in the Rooks County area based on the available data. Staff will continue to monitor the injection and earthquake activity within the 15-mile investigation area. Should either of these activities require immediate action, Staff will request the Commission take such action if the Commission does not take the action on its own motion. Finally, Staff will update the information contained herein and supplement it as necessary on a quarterly basis as contemplated by the Commission's order in this docket.