

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

Laura Kelly, Governor

SECOND QUARTER REPORT

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

From: Ryan A. Hoffman, Director, Conservation Division

Date: 6/30/2020

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 second quarterly report, which is due June 30, 2020.

REPORT

A. Injection Volumes

As mentioned in the first quarter report, the Class II injection well volume reports for calendar year 2020 are not due until March 1, 2021. Staff is preparing to request this data for the first half of calendar year 2020 in the ensuing weeks. This data will be presented to the Commission as part of an updated chart over the same timeframe in the next quarterly report.

B. Earthquakes

Data in the table below is from the Kansas Geological Survey earthquake database for the Rooks County area in the second quarter of 2020.

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

Local Date and Time	Latitude	Longitude	Magnitude	County
APR-27-2020, 10:25:04 PM	39.216	-99.446	2.5	Rooks
MAY-03-2020, 12:09:01 AM	39.272	-99.368	2.4	Rooks
MAY-14-2020, 03:58:44 PM	39.513	-99.185	2.9	Rooks
MAY-27-2020, 08:08:08 PM	39.2164	-99.393	2.3	Rooks

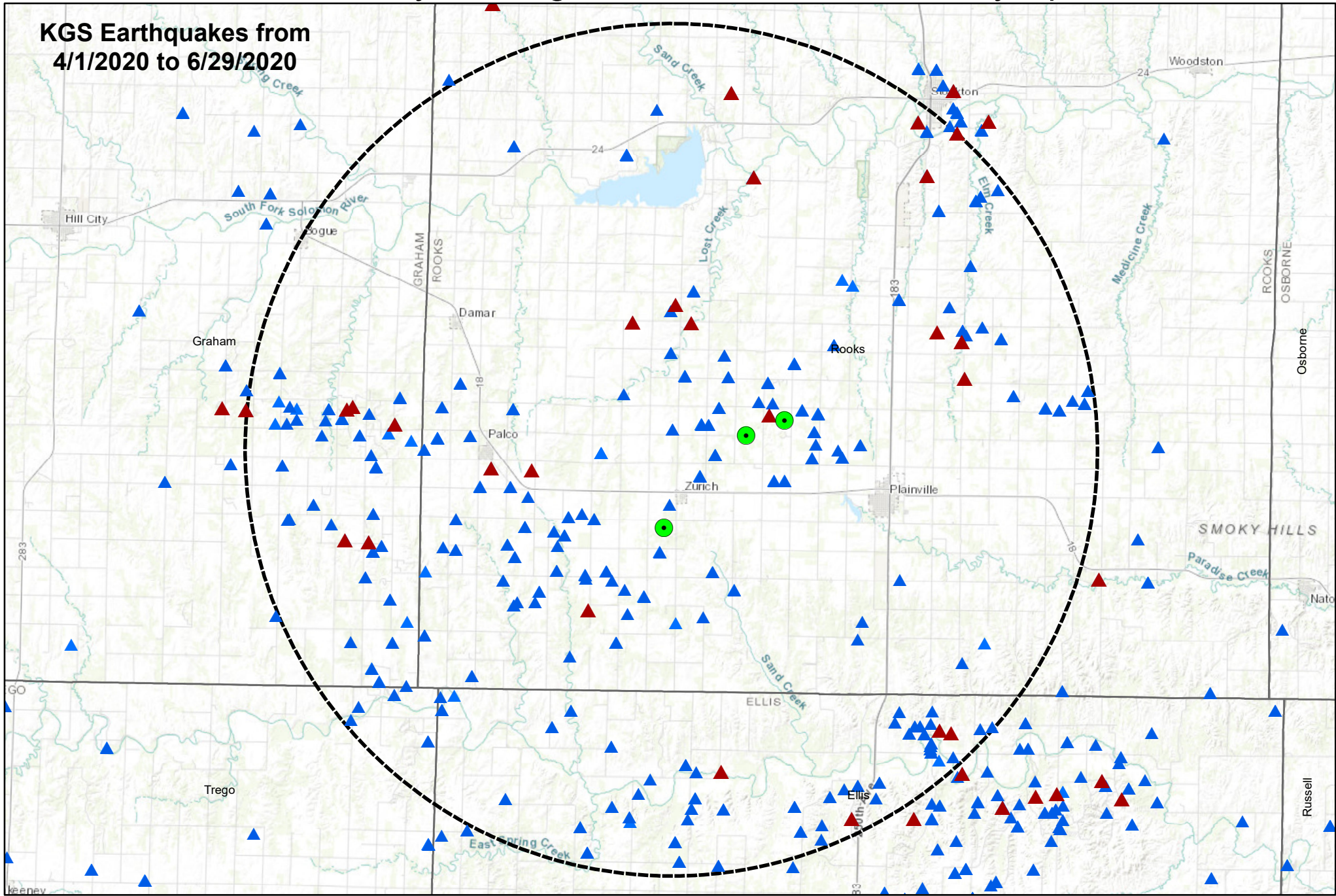
Three earthquakes listed above occurred within the investigative area depicted on the attached Staff Exhibit #1. The M 2.9 earthquake on May 14, 2020, occurred approximately 7.5 miles outside of the search area and is therefore not depicted on Staff Exhibit #1.

Recommendation

At this time, Staff makes no recommendation for further Commission action related to the seismicity in the Rooks County area based on the data available. 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.

Rooks County Investigative Docket into Seismicity Update

**KGS Earthquakes from
4/1/2020 to 6/29/2020**



- ▲ Class II Arbuckle SWD Wells
- ▲ Class II Granite Wash SWD Wells
- ★ Class I Arbuckle SWD Wells
- Earthquakes of Mag. 2.0 or Greater
- ⬡ 15-Mile Search Radius

0 1.25 2.5 5 7.5 10 Miles



Data Sources: ESRI, RBDMS,
KGS, DASC, USGS, KDHE, KCC
Date: 06/29/2020