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Mineral Resources (<https://www.usgs.gov/energy-and-minerals/mineral-resources-program>)

/ Online Spatial Data (/) / Earth MRI (/earthmri/)

/ Data acquisition (/earthmri/data-acquisition/acquisition.php?f=html)

Trans-Pecos Tertiary Alkaline Rocks, Texas

XML (/earthmri/acquisition/5029/xml)

GeoJSON (/earthmri/acquisition/5029/json)

Program Geologic mapping

Description Researchers from the Texas Bureau of Economic Geology will conduct 1:24,000-scale geologic mapping in two 7.5' quadrangles in the Cornudas Mountains of west Texas in a coordinated effort between the New Mexico Bureau of Geology and Mineral Resources and the USGS to characterize the evolution and mineral resources of the Trans-Pecos alkaline magmatic province.

Start year 2020

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Website <https://www.beg.utexas.edu/minerals/rare-earth> (<https://www.beg.utexas.edu/minerals/rare-earth>)

Abstract Researchers from the Texas Bureau of Economic Geology will conduct 1:24,000-scale geologic mapping and geochemical sampling in the Sixteen Mountains and Cerro Diablo 7.5-minute quadrangles located in the Cornudas Mountains of west Texas. The area lies within the Trans-Pecos Tertiary alkaline magmatic province that extends northward into New Mexico. The Paleogene alkaline igneous rocks in Trans-Pecos Texas have the potential to host critical mineral resources including rare earth elements (REE), such as those of the Round Top REE deposit. This is a companion project being conducted in concert with the New Mexico Bureau of Geology and Mineral Resources, which is mapping the Cornudas Mountain in New Mexico, and the USGS Mineral Resources Program to conduct an airborne magnetic and radiometric survey of the region, all of which are supported by Earth MRI.

Keywords

Theme chemical analysis (/earthmri/data-acquisition/acquisition-topic.php?thcode=2&code=153); rare earth elements (/earthmri/data-acquisition/acquisition-topic.php?thcode=2&code=1553); geologic maps (/earthmri/data-acquisition/acquisition-topic.php?thcode=2&code=1748); study areas (/earthmri/data-acquisition/acquisition-topic.php?thcode=2&code=2093); igneous rocks (/earthmri/data-acquisition/acquisition-topic.php?thcode=2&code=572); Alkalic intrusive rock (/earthmri/data-acquisition/acquisition-topic.php?thcode=4&code=4.6)

Place *Counties:* Hudspeth (</earthmri/data-acquisition/acquisition-topic.php?thcode=1&code=f48229>)
Map quadrangles: Big Heiser Tank (</earthmri/data-acquisition/acquisition-topic.php?thcode=1&code=q32106NWC1>); Sixteen Mountains (</earthmri/data-acquisition/acquisition-topic.php?thcode=1&code=q32106NWD1>); Cerro Diablo (</earthmri/data-acquisition/acquisition-topic.php?thcode=1&code=q32106NWE1>); Alamo Mountain (</earthmri/data-acquisition/acquisition-topic.php?thcode=1&code=q33106SWC4>); Cornudas Mountain (</earthmri/data-acquisition/acquisition-topic.php?thcode=1&code=q33106SWD4>); Mcveigh Hills (</earthmri/data-acquisition/acquisition-topic.php?thcode=1&code=q33106SWE4>)
Hydrologic units: Salt Basin (</earthmri/data-acquisition/acquisition-topic.php?thcode=1&code=h13050004>)

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