



Lat40°, Inc. 6250 W. 10th Street, Unit 2, Greeley, CO 970-515-5294

GEOLOGIC HAZARD MAP

MARQUIS 1 PAD
GREAT PLAINS ENERGY OPERATING, LLC

Q: NW/4
SECTION: 23
TOWNSHIP: 7S
RANGE: 52W
6TH. P.M.
LINCOLN COUNTY, CO



GEOLOGIC HAZARD:
(MEASURED FROM EDGE OF WORKING PAD SURFACE)

NO GEOLOGIC HAZARDS IDENTIFIED
WITHIN 1 MILE BUFFER.

FEMA FLOOD ZONES NOT MAPPED IN THIS AREA

LEGEND

- EXISTING WELL LOCATION
- ID DESIGNATION
- WORKING PAD SURFACE
- LANDSLIDE (CGS)
- FLOOD ZONE AE (FEMA)
- FLOOD ZONE X-.2% ANNUAL CHANCE OF FLOOD (FEMA)
- FLOOD ZONE AE FLOODWAY (FEMA)
- FLOOD ZONE A (FEMA)
- EARTHQUAKE (CGS)
- HISTORICAL COAL MINE (CGS)
- MINE (DRMS)
- RADIOACTIVITY (CGS)

NOTE:
THIS MAP IS A COMPILATION OF PUBLICLY AVAILABLE DATA. THE ACCURACY AND COMPLETENESS OF SAID DATA HAD NOT BEEN VERIFIED BY LAT40, INC. EXISTING CONDITIONS MAY DIFFER FROM WHAT IS SHOWN.

DATA SOURCE: COGCC, CGS, USGS, DRMS, LINCOLN COUNTY ASSESSOR & FEMA

DRMS

MINE: <https://maps.dnrqis.state.co.us/drms/index.html?viewer=drms>

CGS

HISTORIC COAL MINE: <https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=1891e3149eda44af9dc8af81c4dc58a8>

EARTHQUAKES: <https://cgsarcimage.mines.edu/ON-001/>

LANDSLIDES: <https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=9dd73db7fbc34139abe51599396e2648>

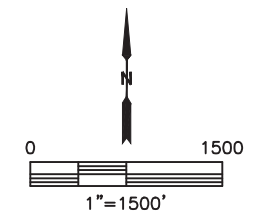
RADIOACTIVITY: <https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=c5381e1335284d63bfa5d4b018b3372f>

FEMA

FLOOD ZONE: <https://msc.fema.gov/portal/advanceSearch#searchresultsanchor>

COGCC

GIS ONLINE: https://cogccmap.state.co.us/cogcc_gis_online/



Professional Geologist Certification

NO SIGNIFICANT HAZARDS IDENTIFIED:

I certify that I am a Professional Geologist, having met the education requirements and professional work experience required by C.R.S. 23-41-208(b). I have reviewed information pertaining to this Oil and Gas Location and the surrounding area and have identified no Geologic Hazards within a one-mile radius.

Joseph J. Brumm

1-18-2024

Date