



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

GEOLOGIC HAZARD MAP
DENALI STATE 5N67W13 1-23 PAD
PDC ENERGY

Q-Q: SESW
SECTION: 13
TOWNSHIP: 5N
RANGE: 67W
6TH. P.M.
WELD COUNTY, CO



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

ID	DISTANCE (FT)	DIRECTION	DESCRIPTION
1	±1520	NW	FLOOD ZONE X-.2% ANNUAL CHANCE OF FLOOD
2	±1542	NW	FLOOD ZONE AE
3	±3126	NW	DRMS - MINE - SHUPE 98 M1998016

WORKING PAD SURFACE LOCATED IN FLOOD ZONE X

LEGEND

- PROPOSED REFERENCE POINT
- 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)
- 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, WELD COUNTY ASSESSOR & FEMA

DRMS

MINE: <https://maps.dnrgis.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

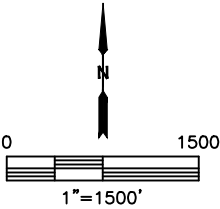
FLOOD ZONE: <https://msc.fema.gov/portal/advanceSearch#searchresultsanchor>

WELD COUNTY ASSESSOR

PROPERTY PORTAL: <https://www.co.weld.co.us/maps/propertyportal/>

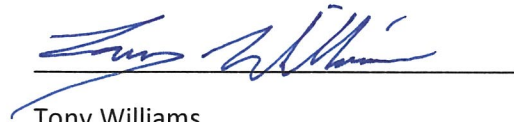
COGCC

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



DATE: 6/16/2022
PROJECT#: 2021001

I certify that I am a Professional Geologist, having met the educational 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.



Tony Williams
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PDC Energy Inc.