


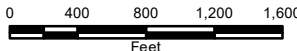







Aota Technical, LLC		Legend			
Chaco Energy Company		 Re-Entry Well	 Xcel Energy Cheyenne Ridge Wind Project		
Champlin 360 Amoco A #4		 Working Pad Surface			
Geologic Hazard Map		 Oil & Gas Location			
Cheyenne County		 1 mile from Working Pad Surface			
NW¼ SE¼ Sec. 29 T12S R44W		 Proposed Access Road			
Date 8/7/23	Figure No. Figure 6	 Existing Road			

Data Source:
ECMC GIS Online
Tumbleweed Midstream, LLC
Colorado Geological Survey
Colorado Water Conservation Board
Colorado Department of Natural Resources
U.S. Geological Survey

SELF-CERTIFICATION

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(1)(b). I have reviewed information pertaining to this Oil and Gas Location and the surrounding area and have identified no Geologic Hazards within a 1-mile radius.



Mark Germinario
Integrated Geologic Solutions, LLC
WYO PG #3409

9/12/23

Date

Sources

1. ECMC GIS: https://cogccmap.state.co.us/cogcc_gis_online. Floodplains, mines, seismic. Accessed 7/28/23.
2. Colorado Geological Survey:
<https://coloradohazardmapping.com/map>. Floodplains. Accessed 7/28/23.
<https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=9dd73db7fbc34139abe51599396e2648>. Landslides. Accessed 7/28/23.
<https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=1891e3149eda44af9dc8af81c4dc58a8>. Historical coal mines. Accessed 7/28/23.
<https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=c5381e1335284d63bfa5d4b018b3372f>. Radioactive mineral occurrences. Accessed 7/28/23.
<https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=a6f816b35fb64d3da096e84af661f070>. Collapsible soils. Accessed 7/28/23.
3. U.S. Geological Survey: <https://mrdata.usgs.gov/usmin>. Mines. Accessed 7/28/23.
4. Colorado Department of Natural Resources:
<https://coloradohazardmapping.com/County/KitCarson>. Water Conservation Board Mapping. Accessed 7/28/23.
5. Natural Resources Conservation Service:
<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>. Web Soil Survey. Accessed 7/28/23.
6. Colorado Division of Homeland Security and Emergency Management:
https://drive.google.com/file/d/1px4c5ehf1bw_WdUw3pwyM4rONrsW8GdF/view. Cheyenne County Hazard Mitigation Plan (2021). Accessed 7/28/23.