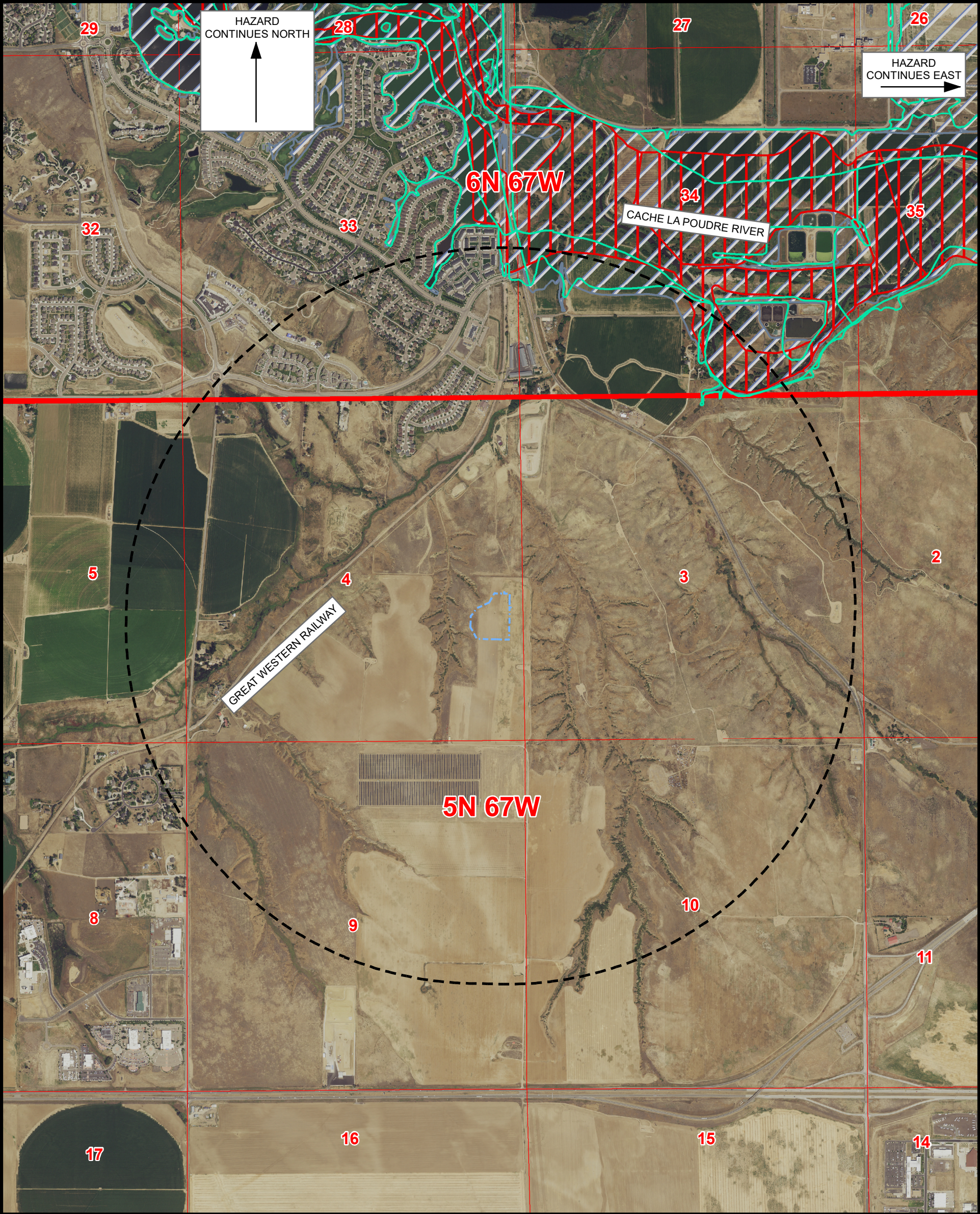


GEOLOGIC HAZARD MAP  
SCHMERGE 9-4HZ

SECTION 4, TOWNSHIP 5 NORTH, RANGE 67 WEST, 6TH P.M., WELD COUNTY, COLORADO



Legend

- PROPOSED WORKING PAD SURFACE
- 1 MILE BUFFER - WORKING PAD SURFACE
- 100-YEAR FLOODPLAIN (EFFECTIVE, 2016)
- 100-YEAR FLOODWAY (PRELIMINARY, 2020)
- 100-YEAR FLOODPLAIN (PRELIMINARY, 2020)

NOTE:  
THIS MAP IS A COMPILATION OF PUBLICLY AVAILABLE DATA. THE ACCURACY AND COMPLETENESS OF SAID DATA  
HAS NOT BEEN VERIFIED BY 609 CONSULTING, LLC. EXISTING CONDITIONS MAY DIFFER FROM WHAT IS SHOWN.

**Kerr-McGee Oil &  
Gas Onshore LP**  
1099 18th Street  
Denver, Colorado 80202



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LOVELAND OFFICE  
6706 North Franklin Avenue  
Loveland, Colorado 80538  
Phone 970-776-4331  
SHERIDAN OFFICE  
1095 Saberton Avenue  
Sheridan, Wyoming 82801  
Phone 307-674-0609



NAD83 CO-Nft

1" = 1,500ft

Drawn by: BB  
Revised: RJ

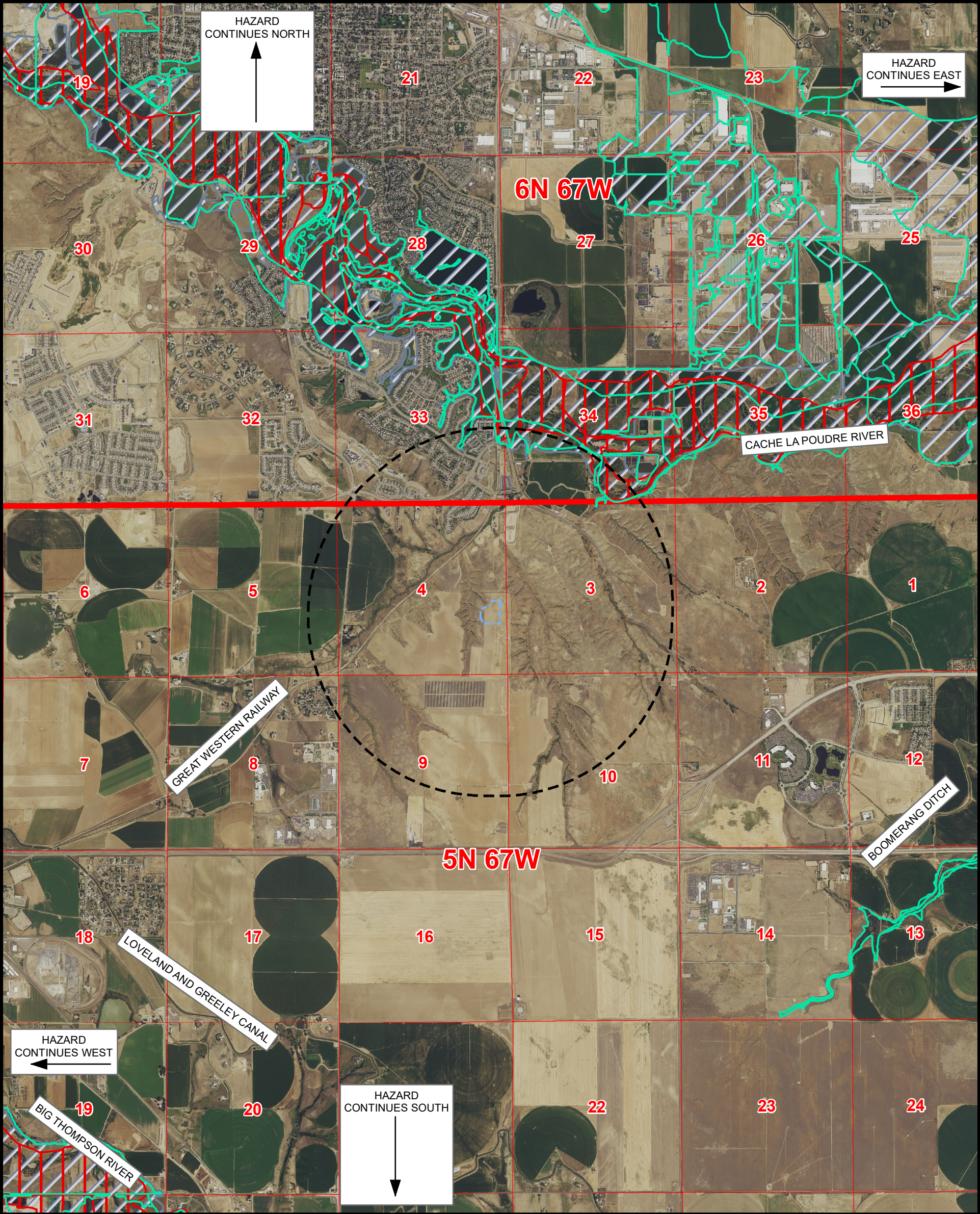
Date: 23 Sep 2022  
Date: 18 Nov 2022

0 750 1,500



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NAD83 CO-Nft

1" = 3,000ft

Drawn by: BB

Revised: RJ

Date: 23 Sep 2022

Date: 18 Nov 2022

0 1,500 3,000



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 the following Geologic Hazards within a one-mile radius: floodplain.

The floodplain is present within one mile of the proposed drilling location; however, based on the National Flood Hazard Layer depicting the 100yr effective floodplain boundaries, the floodplain is not present at the surface drilling location, nor does it impact the proposed access road. The floodplain does not pose a risk to the proposed Oil and Gas Operations or Location.

The data source for floodplain information is the Federal Emergency Management Agency GIS Datasets (both effective and preliminary). Additional datasets, maps, and published papers used to evaluate other possible geologic hazards included in C.R.S. § 24-65.1-103 are listed below.

Respectfully,  
Kerr-McGee Oil & Gas Onshore LP

A handwritten signature in black ink, appearing to read "Jonathan Schwing", with a stylized, flowing script.

Jonathan Schwing  
Staff Geologist



- Floodplain
    - COGCC Floodplains (FEMA) [https://cogccmap.state.co.us/cogcc\\_gis\\_online/](https://cogccmap.state.co.us/cogcc_gis_online/)
    - National Flood Hazard Layer (NFHL) <https://hazards-fema.maps.arcgis.com/apps/webappviewer/>
    - Weld County: <https://www.weldgov.com/Government/Departments/Planning-and-Zoning/Floodplain-Management>
  - Surface Mines
    - COGCC DRMS Mine: [https://cogccmap.state.co.us/cogcc\\_gis\\_online/](https://cogccmap.state.co.us/cogcc_gis_online/)
    - Weld County: <https://www.weldgov.com/Government/Departments/Planning-and-Zoning>
  - Earthquakes:
    - USGS: <https://www.usgs.gov/natural-hazards/earthquake-hazards/science/>
    - USGS: <https://earthquake.usgs.gov/earthquakes/map/>
  - Landslides
    - CGS: <https://cologeosurvey.maps.arcgis.com/apps/webappviewer/>
  - Sub-Surface Mines
    - COGCC Coal Mine: [https://cogccmap.state.co.us/cogcc\\_gis\\_online/](https://cogccmap.state.co.us/cogcc_gis_online/)
    - Roberts, S.B., Hynes, J.L., and Woodward, C.L. Maps Showing the Extent of Mining, Locations of Mine Shafts, Adits, Air Shafts, and Bedrock Faults, and Thickness of Overburden above Abandoned Coal Mines in the Boulder-Weld Coal Field, Boulder, Weld and Adams Counties, Colorado. 1:48:000. Denver, CO: US Geological Survey: 2001
    - Ivery, J.B., and Hynes, J.L., Subsidence Hazard Map Boulder-Weld Coal Field Boulder and Weld Counties, Colorado. Map No. 7361-6 1:24,000. Colorado Geological Survey: 1974
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