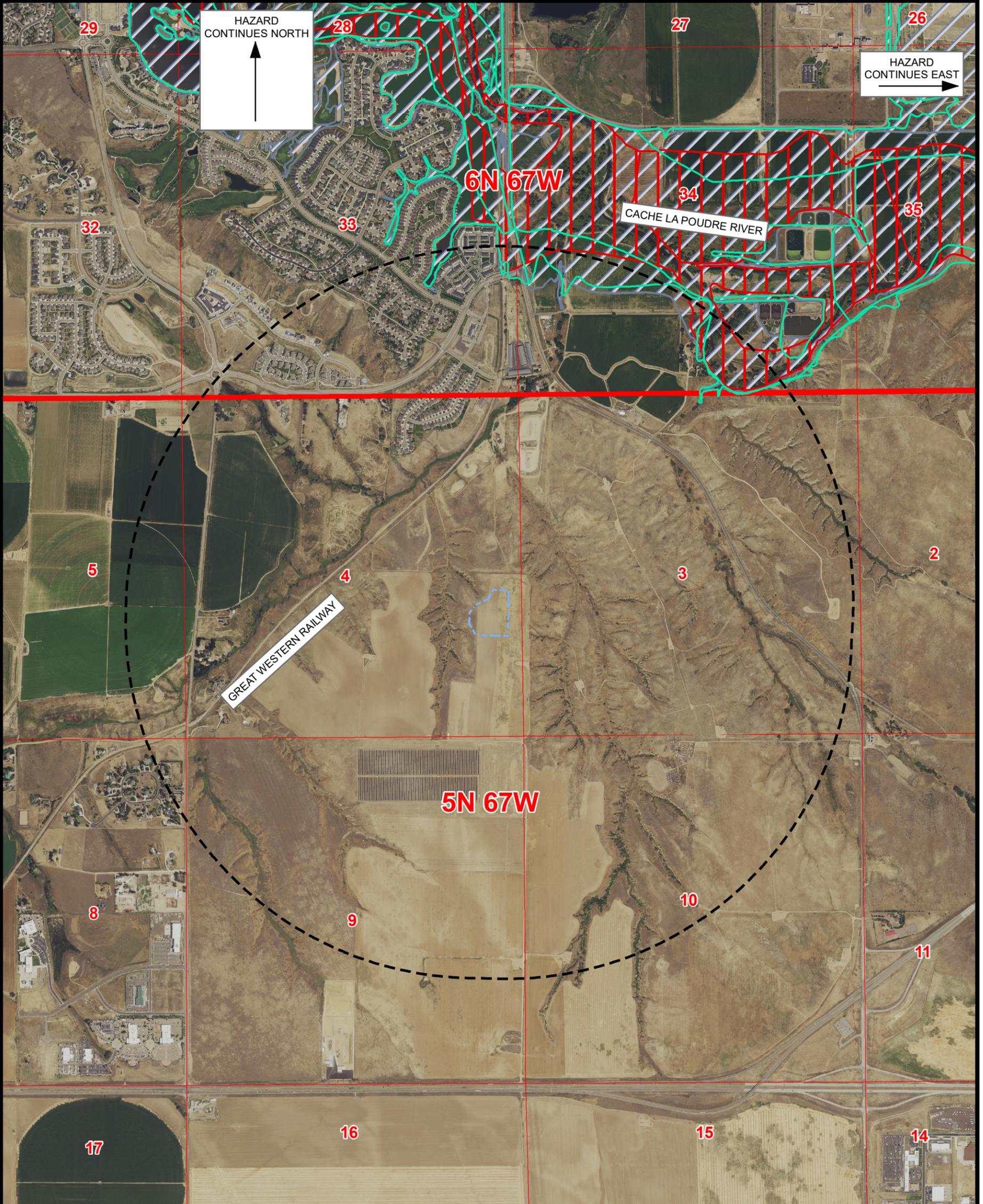


# GEOLOGIC HAZARD MAP SCHMERGE 9-4HZ

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



### Legend

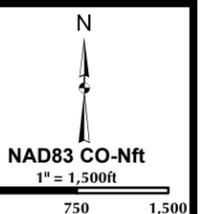
-  PROPOSED WORKING PAD SURFACE
-  1 MILE BUFFER - WORKING PAD SURFACE
-  100-YEAR FLOODPLAIN (EFFECTIVE, 2016)
-  100-YEAR FLOODWAY (PRELIMINARY, 2020)
-  100-YEAR FLOODPLAIN (PRELIMINARY, 2020)

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 &  
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**SHERIDAN OFFICE**  
1095 Saberton Avenue  
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Phone 307-674-0609

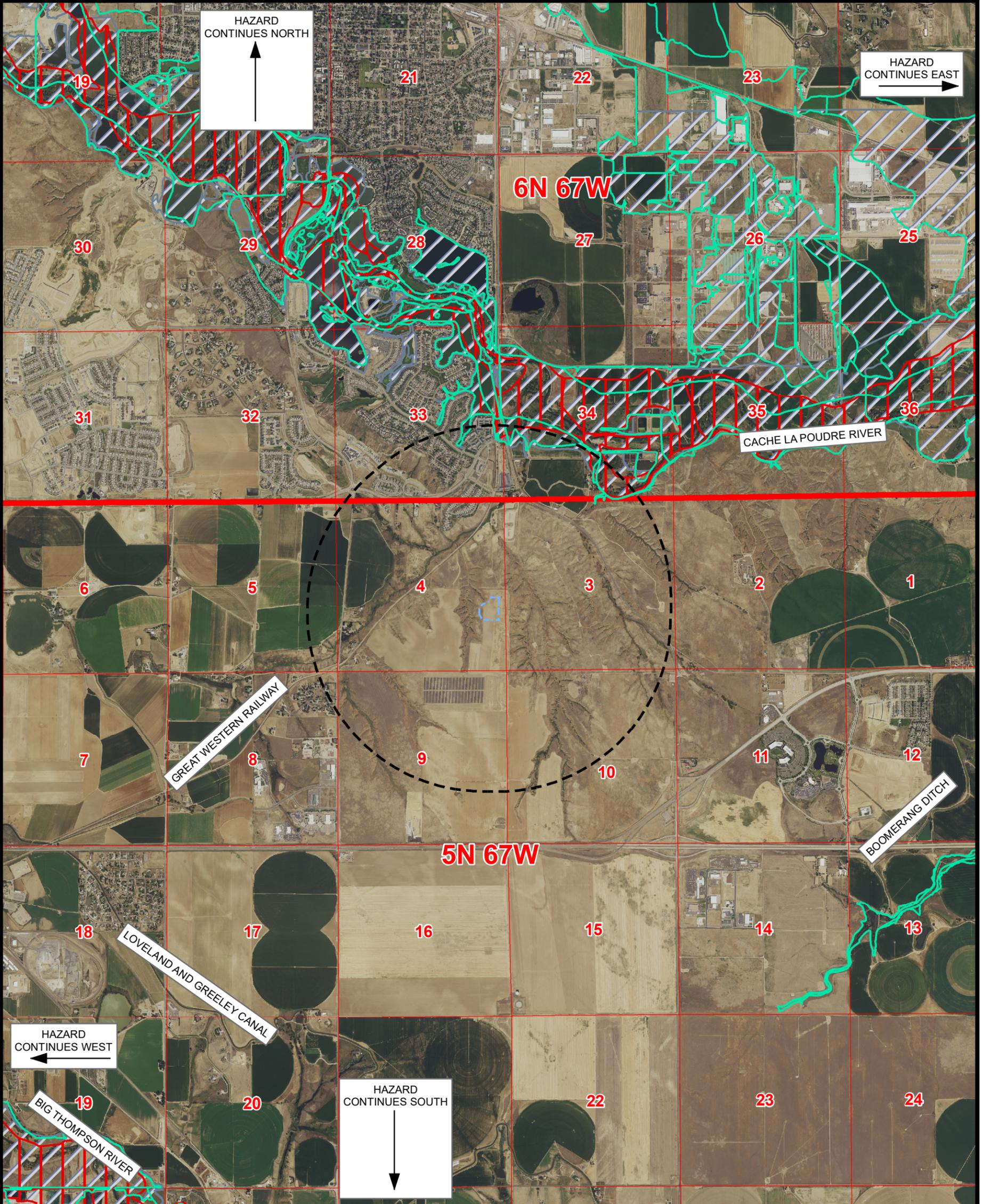


Drawn by: BB  
Revised: RJ

Date: 23 Sep 2022  
Date: 18 Nov 2022

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



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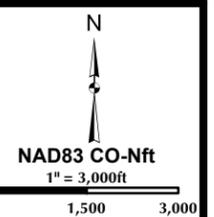
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I certify that I am a Professional Geologist, having met the educational requirements and professional work experience required by C.R.S. 23-41-208(b). I have reviewed information pertaining to this Oil and Gas Location and the surrounding area and 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". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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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