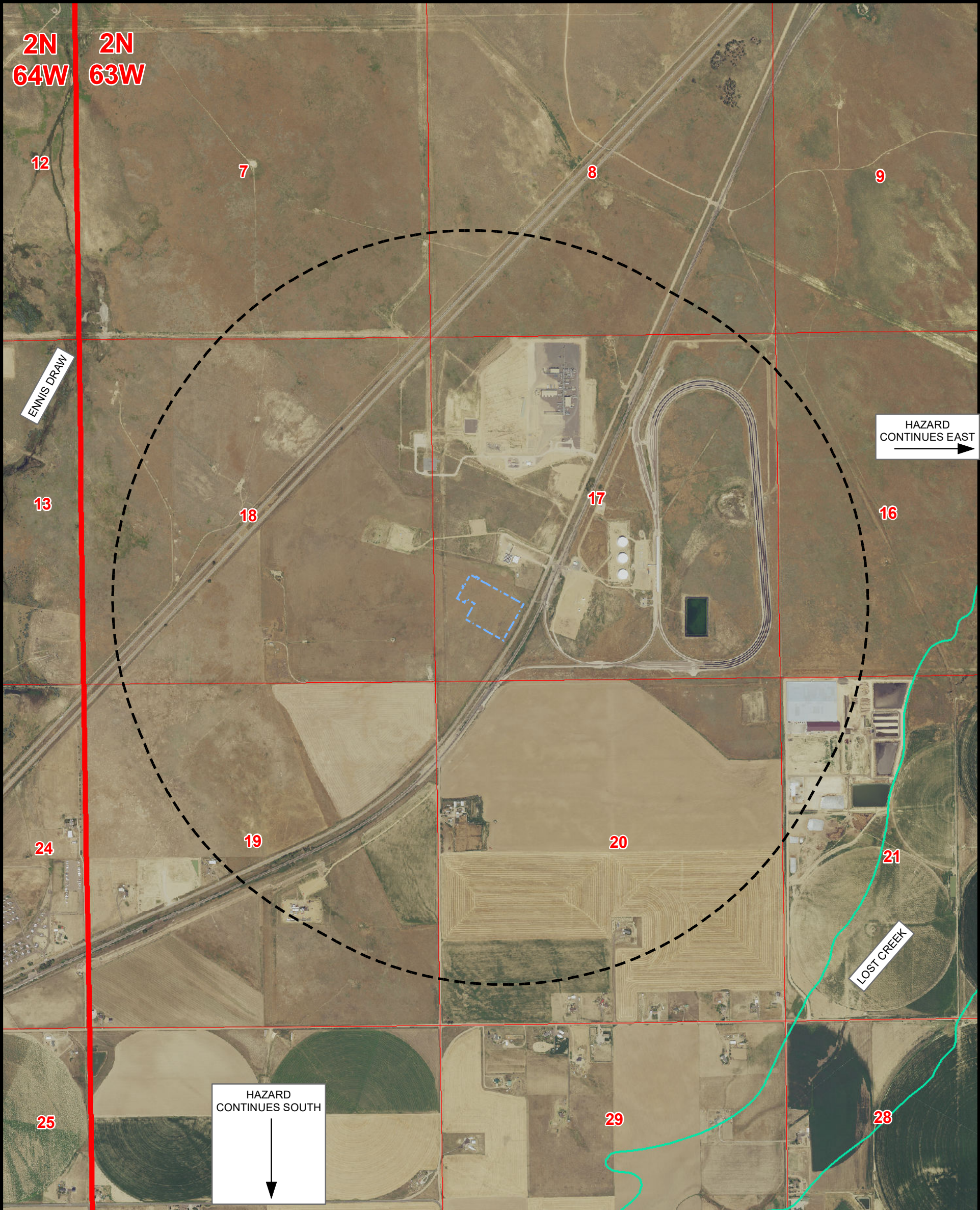







GEOLOGIC HAZARD MAP ACACIA 13-17HZ

SECTION 17, TOWNSHIP 2 NORTH, RANGE 63 WEST, 6TH P.M., KEENESBURG, COLORADO



Legend

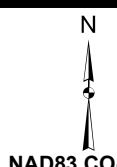
-  PROPOSED WORKING PAD SURFACE
-  1 MILE BUFFER - WORKING PAD SURFACE
-  100-YEAR FLOODPLAIN (EFFECTIVE, 2016)
-  100-YEAR FLOODWAY (PRELIMINARY, 2020)
-  100-YEAR FLOODPLAIN (PRELIMINARY, 2020)

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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Sheridan, Wyoming 82801
Phone 307-674-0609



NAD83 CO-Nft

1" = 1,500ft

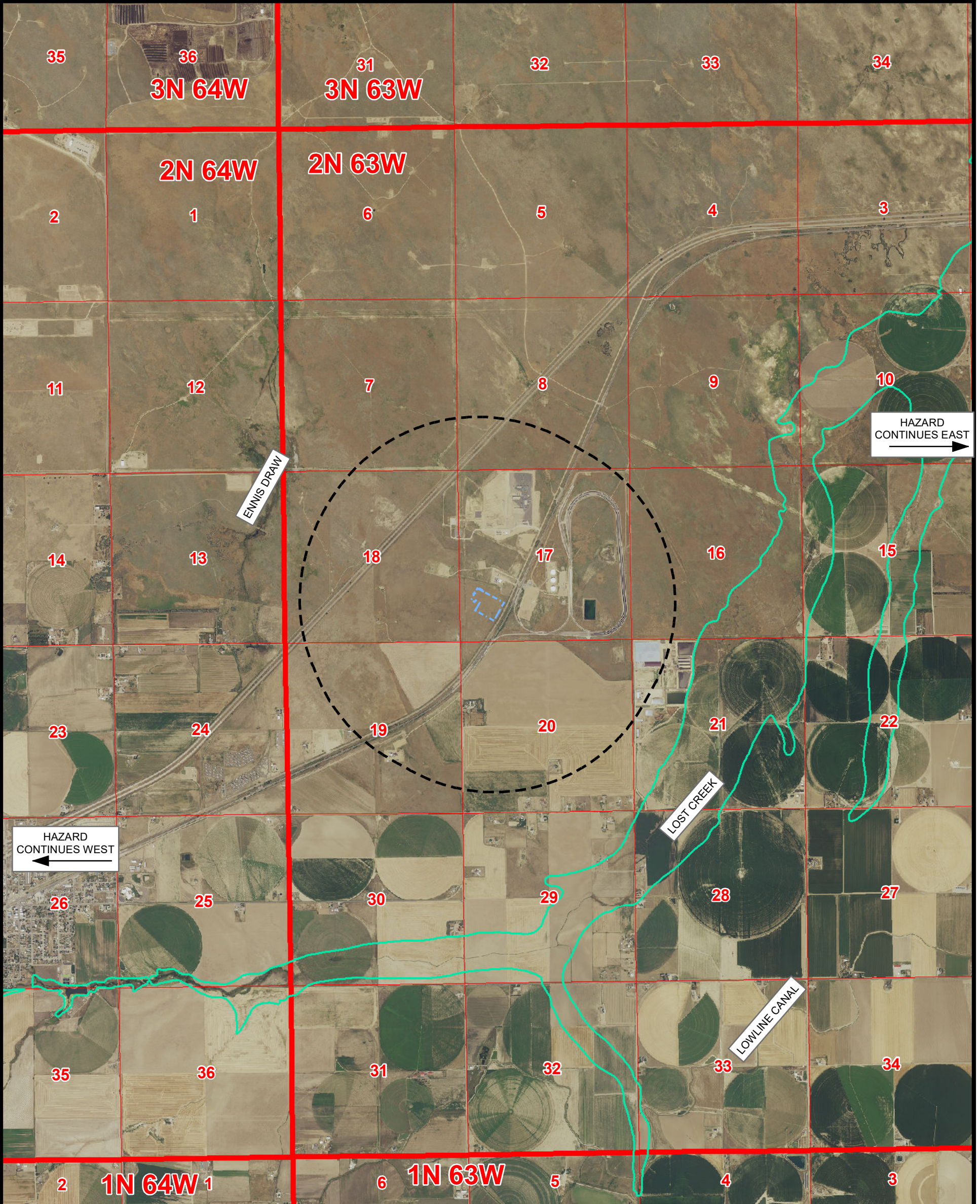
Drawn by: BB
Revised:

Date: 11 Aug 2023
Date:

0 750 1,500

GEOLOGIC HAZARD MAP
ACACIA 13-17HZ

SECTION 17, TOWNSHIP 2 NORTH, RANGE 63 WEST, 6TH P.M., KEENESBURG, COLORADO



Legend

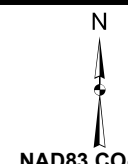
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1" = 1,500ft
0 1,500 3,000

Drawn by: BB
Revised:

Date: 11 Aug 2023
Date:

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: 100-year effective floodplain.

There are no geologic hazards nor floodplains present within one mile of the working pad surface of the Acacia 13-17HZ location. The data source for floodplain information is the Federal Emergency Management Agency GIS Datasets. 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 'Rachel Friedman', is positioned above the printed name.

Rachel Friedman
Geological Advisor

Floodplain

- COGCC Floodplains (FEMA) 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/
- 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/
- 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