

Aota Technical, LLC
CPX Piceance Holdings, LLC
Tepee Park Ranch
Temporary Water Support Pad 25B
Geologic Hazard Map
 Garfield County
 SW1/4SE1/4 Sec. 25, T7S R94W, 6th P.M.

Date: 6/3/22
 Figure No.: Figure 6a

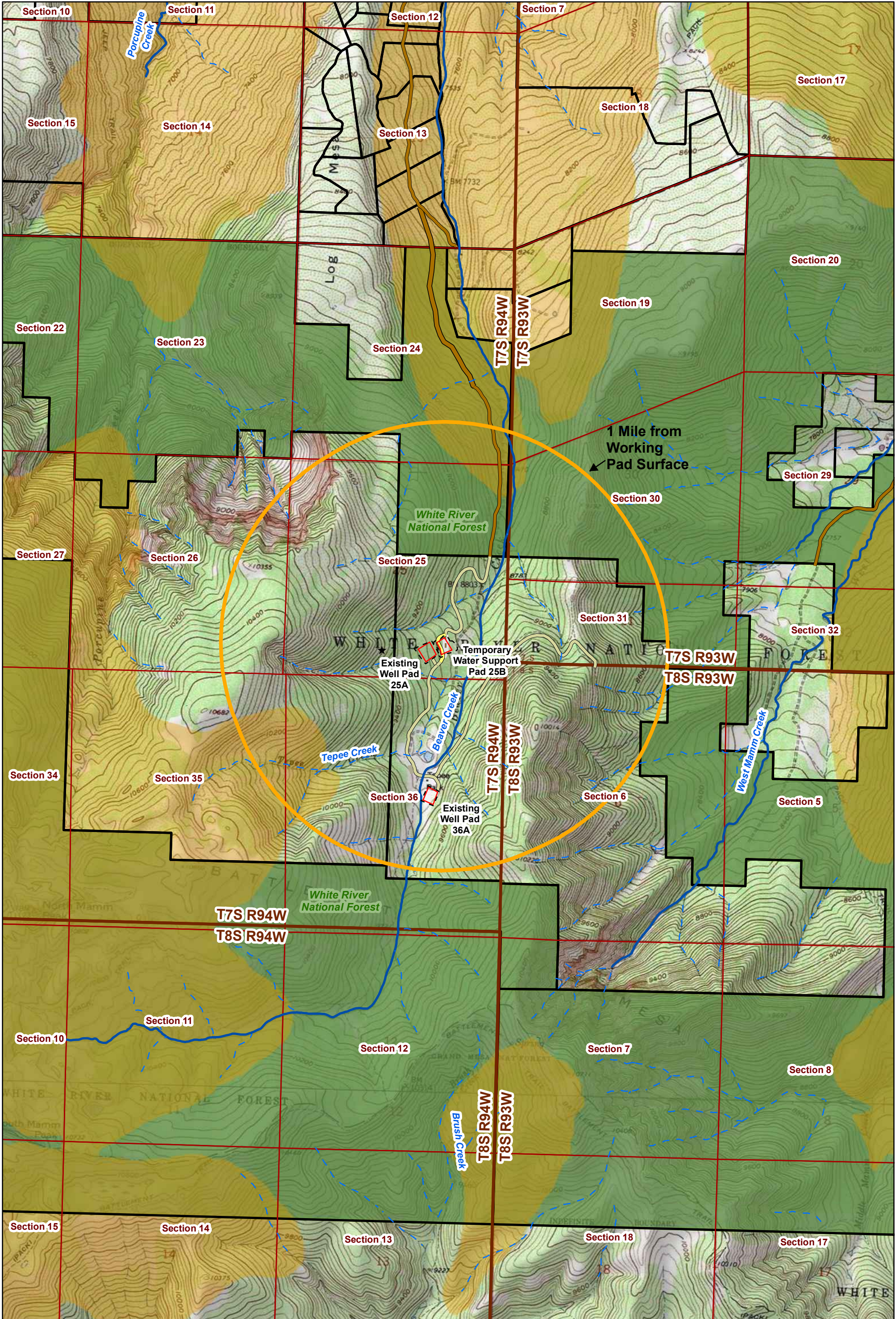
Legend

Oil and Gas Location	Forest Service Road
Working Pad Surface	Private Road
1 mile from Working Pad Surface	Private Road Reroute and
Forest Service Jurisdiction	Reclaimed Private Road
Parcels	Perennial Stream
Landslides	Intermittent Stream
Permitted Shale Excavation	

Data Source:
 COGCC GIS Online
 Colorado Department of Natural Resources
 Colorado Geological Survey
 U.S. Geological Survey, Prospect and Mine Related Features
 U.S. Geological Survey, National Hydrography Dataset

0 250 500 750 1,000
 Feet

N



Aota Technical, LLC
 CPX Piceance Holdings, LLC
 Tepee Park Ranch
Temporary Water Support Pad 25B
Geologic Hazard Map
 Garfield County
 SW1/4SE1/4 Sec. 25, T7S R94W, 6th P.M.
 Date: 6/3/22
 Figure No.: **Figure 6b**

Legend

Oil and Gas Location	Perennial Stream
Working Pad Surface	Intermittent Stream
1 mile from Working Pad Surface	Forest Service Road
Forest Service Jurisdiction	Private Road
Parcels	Private Road Reroute and Access
Landslides	Reclaimed Private Road
Permitted Shale Excavation	

Data Source:
 COGCC GIS Online
 Colorado Department of Natural Resources
 Colorado Geological Survey
 U.S. Geological Survey, Prospect and Mine Related Features
 U.S. Geological Survey, National Hydrography Dataset

N
 0 500 1,000 1,500 2,000
 Feet

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 found no Geologic Hazard within a 1-mile radius which is so adverse to past, current, or foreseeable construction or land use as to constitute a significant hazard to public health, safety, or property.

5/13/22

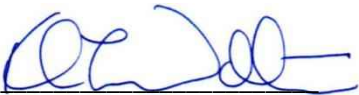
Kenneth L. Walter

Date

Walter Environmental & Engineering Group, Inc.
B.A., M.S., Professional Geologist
Recognized Environmental Professional, Colorado, No. 58

(21) GEOLOGIC HAZARD PLAN LESSER IMPACT AREA EXEMPTION REQUEST

Requirement	Response
Exemption Requested	Rule 304.c.(21) Geologic Hazard Plan
Resource Concern	Geologic hazard to the Oil and Gas Location
Exemption Circumstance	The impact to the resource is so minimal as to pose no concern.
Description	<p>A professional geologist has made the determination that the only mapped geologic hazard at the Oil and Gas Location, two mapped landslide areas, is so minimal as to pose no concern. The professional geologist's self-certification statement is provided below. The individual's qualifications meet the statutory definition at C.R.S. 23-41-208(1)(b) as follows: the individual is engaged in the practice of geology. He is a graduate of Queens College of the City University of New York (BA Geology 1978) and the University of Massachusetts at Amherst (MS Engineering Geology 1982). He has been professionally engaged in hydrogeology since 1984. He has been the principal scientist for Walter Environmental & Engineering Group, Inc. since 1998. Detailed Geologic Hazard Maps, self-certification, and citations were submitted with the Form 2A application. A Geological Hazard Assessment prepared by the professional geologist is attached.</p> <p align="center">SELF-CERTIFICATION</p> <p>The geological information I reviewed for relevance to the Oil and Gas Location includes the following listed material, with individual citations provided in the Geologic Hazard Map Self-Certification Statement submitted with the Form 2A application: Colorado Hazard Mapping; Colorado Landslide Hazard Mitigation Plan; Department of Public Health and Environment radon data; Geologic Map of the North Mamm Peak Quadrangle; FEMA flood mapping; Garfield County Multi-Jurisdictional Hazard Mitigation Plan; Google Earth Pro Aerial Image; Historical Coal</p>

Requirement	Response
	<p>Mines Online Data; NRCS soil resource mapping; Radioactive Mineral Occurrences of Colorado; U.S. Landslide Inventory Online Data; and U.S. Quaternary Faults. The information was used to assess avalanches, landslides, rockfalls, mudflows or debris flows, soils, seismic effects, radioactivity, subsidence, and flooding.</p> <p>The single geologic hazard identified within 1 mile of the Oil and Gas Location is two mapped landslide areas. In accordance with Rule 304.b.(7).I, the Geologic Hazard Maps show the mapped landslide areas within 1 mile of the location (Figure 6a) and an expanded view of the landslide areas (Figure 6b). A finding of a geologic hazard from a landslide, and an associated Geologic Hazard Plan, are believed to be unnecessary for this location. My finding is detailed in the attached Geological Hazard Assessment letter (May 13, 2022) and the Geological Hazard Assessment (February 16, 2022). It is also summarized here.</p> <p>The mapped landslide areas are approximately 0.7 miles northeast of the Oil and Gas Location and 0.8 miles southwest of the location. The U.S. Geological Survey assigned each area the lowest rating of 1 out of 5 for a possible landslide (USGS Landslide Hazard Program, U.S. Landslide Inventory Online Data). This is because Pad 25B is actually at a <i>higher</i> elevation than the mapped landslide area to the northeast and could not be impacted by landslide activity occurring below it. Regarding the landslide area to the southwest, Pad 25B is separated from that area by a ridgeline and timbered area. A landslide would follow a natural flow path to gravity feed along the Tepee Creek drainage, away from Pad 25B. Based on this evaluation, there is no risk of landslide from either area affecting the Oil and Gas Location.</p>
	<div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-between;"> <div> <p>Kenneth L. Walter Walter Environmental & Engineering Group, Inc. B.A., M.S., Professional Geologist Recognized Environmental Professional, Colorado, No. 58</p> </div> <div style="text-align: right;"> <p><u>5/13/22</u> Date</p> </div> </div>

Sources

1. Colorado Hazard Mapping & Risk MAP Portal:
<https://coloradohazardmapping.com/hazardMapping/debrisFlowMapping/Map> (reviewed January 18, 2022).
2. Colorado Landslide Hazard Mitigation Plan, Bulletin 48, 1988; pp. 11-15.
3. Department of Public Health and Environment – Radon:
<https://cdphe.colorado.gov/understanding-radon> (reviewed January 20, 2022).
4. Donnell, J. R.; Yeend, W. E.; and Smith, M. C.; 1989. Geologic Map of the North Mamm Peak Quadrangle, Garfield County, Colorado.
5. FEMA Flood Map Service Center: Search All Products:
<https://msc.fema.gov/portal/advanceSearch#searchresultsanchor> (reviewed January 20, 2022).
6. Garfield County Multi-Jurisdictional Hazard Mitigation Plan, August 2017, Section 4, pp. 69-83; 89-94.
7. Google Earth Pro Aerial Image; Image dated June 16, 2016.

8. Historical Coal Mines Online Data:
<https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=1891e3149eda44af9dc8af81c4dc58a8> (reviewed January 20, 2022).
9. NRCS Custom Soil Resource Report for Grand Mesa - West Elk Area, Colorado, Parts of Delta, Garfield, Gunnison, Mesa, and Montrose Counties; Holy Cross Area, Colorado, Parts of Eagle, Garfield, Mesa, Pitkin, and Summit Counties; and Rifle Area, Colorado, Parts of Garfield and Mesa Counties; December 28, 2021.
10. ON-B-40M Radioactive Mineral Occurrences of Colorado, Colorado Geological Survey:
<https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=c5381e1335284d63bfa5d4b018b3372f> (reviewed January 20, 2022).
11. USGS Landslide Hazard Program; U.S. Landslide Inventory Online Data:
<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=ae120962f459434b8c904b456c82669d> (reviewed January 17, 2022).
12. U.S. Quaternary Faults, USGS Geologic Hazards Science Center Golden, CO:
<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9b0aadf88412fcf> (reviewed January 20, 2022).

May 13, 2022

CPX Piceance Holdings, LLC
Attention: Mr. Nicholas Kurtenbach
34 South Wynden Drive, Suite 240
Houston, Texas 77056


Subject: Geological Hazard Assessment
Temporary Water Support Pad 25B
Garfield County, Colorado

Dear Mr. Kurtenbach:

Walter Environmental & Engineering Group, Inc. (Walter) has assessed the Temporary Water Support Pad 25B location and geologic hazards consistent with the previous assessment for Existing Well Pad 25A. The findings in my report, dated February 16, 2022, remain unchanged and are applicable by reference to the large volume modular tanks proposed to be placed on Pad 25B because of Pad 25B's location proximate to Well Pad 25A (Figure 1).

Walter believes that due to the localized loads introduced by the tanks, it would be appropriate for a site-specific geotechnical evaluation to be performed at the Temporary Water Support Pad 25B location. The geotechnical evaluation is a prudent step toward generating the appropriate engineered foundation system to safely support the proposed equipment and uses. The recommendation for a geotechnical evaluation does not alter the conclusion that the findings in the February 16, 2022 report remain unchanged regarding geologic hazards.

Respectfully submitted,
Walter Environmental & Engineering Group, Inc.



Kenneth L. Walter
B.A., M.S.
Professional Geologist, Colorado
ASTM Environmental Professional
Recognized Environmental Professional, No. 58, Colorado

February 16, 2022

CPX Piceance Holdings, LLC
Attention: Mr. Nicholas Kurtenbach
34 South Wynden Drive, Suite 240
Houston, Texas 77056

Subject: Geological Hazard Assessment
Existing Tepee Park Ranch Well Pad 25A Site, Garfield County, Colorado

Dear Mr. Kurtenbach:

This document summarizes the assessment of geologic hazards within 1 mile of the existing Tepee Park Ranch Well Pad 25A Well Site location. CPX Piceance Holdings, LLC (CPX) retained **Walter Environmental & Engineering Group, Inc. (Walter)** to assess geologic hazards within one mile of the Working Pad Surface (WPS) of the Tepee Park Ranch Well Pad 25A well site (Site).

This Tepee Park Ranch Well Pad 25A Well Site Geologic Hazards Assessment addresses “Geologic Hazards” as defined by COGCC’s Rules and Regulations and Colorado Revised Statutes (C.R.S.) § 24-65.1-103(8):

“Geologic hazard” means a geologic phenomenon which is so adverse to past, current, or foreseeable construction or land use as to constitute a significant hazard to public health and safety or to property. The term includes but is not limited to:

- (a) Avalanches, landslides, rock falls, mudflows, and unstable or potentially unstable slopes;*
- (b) Seismic effects;*
- (c) Radioactivity; and*
- (d) Ground subsidence.*

The Tepee Park Ranch Well Pad 25A Well Site Geologic Hazards Map was prepared in accordance with COGCC Rule 304.b.(7).I.:

“Geologic Hazard Map. A map identifying any Geologic Hazards within a 1 mile radius of the proposed Working Pad Surface. For any identified Geologic Hazard that extends

beyond the 1 mile radius, a second map scaled to show the extent of that hazard in relation to the proposed Oil and Gas Location.”

The Geologic Hazard Map (*Walter* Figure 1) includes data from:

- COGCC GIS Online
- Colorado Department of Natural Resources
- Colorado Geological Survey
- U.S. Geologic Survey, Prospect and Mine Related Features
- U.S. Geological Survey, National Hydrology Dataset

A single mapped geologic hazard appears within 1-mile of Well Pad 25A. It is specific to landslide data from USGS Landslide Hazard Program; U.S. Landslide Inventory Online Data. There are no other geologic hazards within 1 mile, as discussed below. The landslide data and *Walter*'s assessment have determined that there is no potential for avalanche, landslides, rockfall, mudflow, and unstable or potentially unstable slopes which is so adverse to past, current, or foreseeable construction or land use as to constitute a significant hazard to public health and safety, or to the property. Additionally, the area does not have a risk from radioactivity, ground subsidence, or flooding.

Based on this finding, a further Geologic Hazard Plan is not indicated for this location.

The professional opinions in this report were developed using publicly available information and did not include sample collection, analyses, or site inspections.

Site Overview

The Site is located on topographic high-ground approximately 9 miles southwest of Rifle Colorado at an approximate elevation of 9,129 feet above mean sea level (msl). The Site is located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 25, Township 7 South, Range 94 West, of the 6th principal meridian. Latitude and Longitude for the Site are approximately 39.404522, -107.832789 (WGS 84).

February 16, 2022 Page 2 of 8

Geologic Hazard Assessment

The assessment analyzed the potential geologic hazards summarized below.

Avalanches

According to the Garfield County Multi-Jurisdictional Hazard Mitigation Plan:

“The greatest avalanche threats are in the mountainous areas of Garfield County. Steeply sloped areas (30 to 45 degrees) are highly subject to avalanches, primarily on south exposed slopes where unstable snow conditions are most likely to occur.”

Although localized slope angles do exceed 30 degrees, the Site is located within the Beaver Creek drainage basin which is generally down-to-the-north trending (*Walter* Figure 1). Thus, limited “south exposed slopes” lie within 1 mile of the site, and no south-facing slopes surround the location. In addition, aerial imagery from 2016 (referenced below) demonstrate no historic avalanche slide paths surrounding the location. These data lead *Walter* to conclude that avalanches are not a geologic hazard to the Site.

Reference

Garfield County Multi-Jurisdictional Hazard Mitigation Plan, August 2017; Section 4, pp. 81-83.

Google Earth Pro Aerial Image; Image dated June 16, 2016.

Landslides

USGS data (referenced below) identifies two “Possible Landslide” areas within one mile of the Site (*Walter* Figure 1). Each of the two areas is designated as “Possible Landslide” area with the lowest assigned confidence rating of 1 out of 5 (USGS Landslide Hazard Program; U.S. Landslide Inventory Online Data).

The northern “Possible Landslide” area is located approximately 0.8 mile north-northeast of the Site at an elevation at and below 9,000 feet msl. Well Pad 25A is located at an elevation of 9,129 feet msl. Well Pad 25A, therefore, is topographically higher than the northern “Possible Landslide” area. The northern mapped “Possible Landslide” is not a geologic hazard to Well Pad 25A because it is located at a lower elevation than the well pad.

The southwestern “Possible Landslide” that is mapped within approximately 0.7 miles southwest of the Site is located on the northeastern side of North Mamm Peak. The overwhelming majority of the mapped “Possible Landslide” is within the (down-to-the-east trending) Tepee Creek drainage located south of the Site.

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The Colorado Landslide Hazard Mitigation Plan characterizes key components of landslide material including:

“The failure is caused by liquefaction, the process whereby saturated, loose, cohesionless sediments (usually sands and silts) are transformed from a solid into a liquefied state.”

“Generally speaking, five conditions must be present for a debris flow to occur: 1) steep slopes, 2) loose rock and soil materials, 3) clay minerals, 4) saturated soils, and 5) rainfall - or snowmelt-generated runoff of sufficient intensity and duration to initiate slope movement.”

“In debris avalanches, progressive failure is more rapid, and the whole mass, either because it is quite wet or because it is on a steep slope, liquefies, at least in part, flows, and tumbles downward, commonly along a stream channel, and may advance well beyond the foot of the slope.”

The common characteristic identified in this reference is moisture rich (saturated) soils.

NRCS data (**Walter** Figure 2) identifies the southwestern “Possible Landslide” to be composed (within one mile of the Site) of two soil types:

*“331C-Woodrock-Angostura Families Complex”
“449C-Tampico-Echemoor-Eyre Families Complex”*

In both cases, the NRCS characterizes the Drainage class of this soil as “Well Drained.” “Well drained” soils typically cannot become the “moisture rich (saturated) soils” specified in the Colorado Landslide Hazard Mitigation Plan.

Walter also evaluated whether the Site was located in the likely flow path of the southwestern mapped “Possible Landslide.” Needless to say, landslides are gravity-driven phenomena. As illustrated in **Walter** Figure 1, the southwestern “Possible Landslide” is located within the Tepee Creek drainage. The Site is located north of the Tepee Creek drainage, within an unnamed drainage (separated from the Tepee Creek drainage by a prominent ridge). Tepee Creek and the unnamed drainage are tributary to Beaver Creek. The Site is approximately 120 feet higher in elevation than Beaver Creek. Based upon the topography between the southwestern “Possible Landslide” and the Site, **Walter** believes that the Site is not within the flow path of the southwestern “Possible Landslide.”

In addition, aerial imagery (referenced below) indicates that the slope is timbered, which provides energy-dissipating armoring for the Site.

Thus, based upon the data summarized above, **Walter** believes that the southwestern mapped “Possible Landslide” is not a geologic hazard to the Site.

References

Colorado Landslide Hazard Mitigation Plan, Bulletin 48, 1988; pp 11-15.

Google Earth Pro Aerial Image; Image dated June 16, 2016.

NRCS Custom Soil Resource Report for Grand Mesa - West Elk Area, Colorado, Parts of Delta, Garfield, Gunnison, Mesa, and Montrose Counties; Holy Cross Area, Colorado, Parts of Eagle, Garfield, Mesa, Pitkin, and Summit Counties; and Rifle Area, Colorado, Parts of Garfield and Mesa Counties; December 28, 2021.

USGS Landslide Hazard Program; U.S. Landslide Inventory Online Data:

<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=ae120962f459434b8c904b456c82669d> (reviewed January 17, 2022).

Rockfalls

By definition, rockfalls require (at a minimum) exposed rock faces (a.k.a. outcrops) to serve as the source of the falling rock, as well as the rock face to be located in a topographic upgradient location. *Walter* reviewed the 2016 Google Earth image for the Site vicinity. The closest outcrop in a topographic upgradient direction (within the same drainage) is over 3,000 feet west of the Site. Therefore, based upon these data, the rockfalls are not a geologic hazard to the Site.

References

Google Earth Pro Image; Image dated June 17, 2016.

Mudflows or Debris Flows

In accordance with the Garfield County Multi-Jurisdictional Hazard Mitigation Plan, mudflows and/or debris flows are a subset of the general term “landslide.” The driving forces behind mudflows or debris flows are the same as a landslide. As discussed above, based upon the reported soil characteristics and predicted flow path of a mudflow or debris flow, they are not a geologic hazard(s) to the Site. In addition, *Walter* reviewed the online Colorado Hazard Mapping and Risk MAP Portal. The Site is not located in or near a mapped debris flow.

References

Garfield County Multi-Jurisdictional Hazard Mitigation Plan, August 2017; Section 4, pp. 81-83.

February 16, 2022 Page 5 of 8

Colorado Hazard Mapping & Risk MAP Portal:
<https://coloradohazardmapping.com/hazardMapping/debrisFlowMapping/Map>
(reviewed January 18, 2022).

Unstable or Potentially Unstable Slopes

“Unstable or Potentially Unstable Slopes” are addressed in the “Landslides,” “Rockfalls,” and “Mudflows or Debris Flows” sections above. For the reasons summarized above, “Unstable or Potentially Unstable Slopes” are not a geological hazard at this Site.

Seismic Effects

The Garfield County Multi-Jurisdictional Hazard Mitigation Plan states:

“The locations most likely to experience an earthquake within Garfield County are those near fault lines. Figure 33 shows the faults located within Garfield County. These faults are located in the southeastern and northeastern portions of the County.”

The Site, which is located in central Garfield County, is not located above any known mapped faults (*Walter* Figure 3). Therefore, *Walter* believes Seismic Effects are not a geologic hazard to the Site.

References

Donnell, J. R.; Yeend, W. E.; and Smith, M. C.; 1989. Geologic Map of the North Mamm Peak Quadrangle, Garfield County, Colorado.

Garfield County Multi-Jurisdictional Hazard Mitigation Plan, August 2017; Section 4, pp. 89-94.

U.S. Quaternary Faults, USGS Geologic Hazards Science Center Golden, CO:
<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9b0aadf88412fef> (reviewed January 20, 2022).

Radioactivity

Review of the Colorado Department of Public Health and Environment website for Radon information indicates that the entire State of Colorado, including Garfield County, has high radon potential. It is anticipated that based on the project for the Site, that no enclosed structures or buildings will be developed for use during production. In addition, *Walter* reviewed the Colorado Geological Survey map of radioactive mineral occurrences. No radioactive minerals are plotted within several miles of the Site. Therefore, *Walter* believes that radon is not expected

February 16, 2022 Page 6 of 8

to represent a significant geologic or worker exposure health hazard.

References

Department of Public Health and Environment – Radon:

<https://cdphe.colorado.gov/understanding-radon> (reviewed January 20, 2022).

ON-B-40M Radioactive Mineral Occurrences of Colorado, Colorado Geological Survey:

<https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=c5381e1335284d63bfa5d4b018b3372f> (reviewed January 20, 2022).

Ground Subsidence

The Garfield County Multi-Jurisdictional Hazard Mitigation Plan states:

“Ground subsidence is the sinking of the land over human caused or natural underground voids and the settlement of native low density soils. The type of subsidence of greatest concern in Garfield County, and the rest of Colorado, is the settling of the ground over abandoned mines.”

Colorado Geologic Survey data (reference below) indicate that the Site is not located in an area that is known to have been impacted by mining operations. Thus, significant subsidence is not anticipated, and therefore not a geologic hazard at this site.

References

Garfield County Multi-Jurisdictional Hazard Mitigation Plan, August 2017; Section 4, pp. 69-83.

Historical Coal Mines Online Data:

<https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=1891e3149eda44af9dc8af81c4dc58a8> (reviewed January 20, 2022).

Flooding

Facility is located in an upland area with no natural drainages within the site boundary. The NRCS reports (*Walter* Figure 2) that the soil type at the Site is:

“338B—Wetopa-Doughspon-Echemoor families complex”

Flood Frequency for this soil type is “None”, meaning that the chance of flooding is nearly 0% in any year. The site may be subject to sheet flow from precipitation events, however, storm water control measures are in place to mitigate or prevent storm water from entering the facility and

February 16, 2022 Page 7 of 8

disrupting operations. In addition, **Walter** searched for FEMA online data for the Site and vicinity. There is no floodplain mapping for this location.

Based upon these data, **Walter** believes that flooding is not a geologic hazard at this site.

References

FEMA Flood Map Service Center: Search All Products:

<https://msc.fema.gov/portal/advanceSearch#searchresultsanchor> (reviewed January 20, 2022).


NRCS Custom Soil Resource Report for Grand Mesa - West Elk Area, Colorado, Parts of Delta, Garfield, Gunnison, Mesa, and Montrose Counties; Holy Cross Area, Colorado, Parts of Eagle, Garfield, Mesa, Pitkin, and Summit Counties; and Rifle Area, Colorado, Parts of Garfield and Mesa Counties; December 28, 2021.

Conclusions and Summary

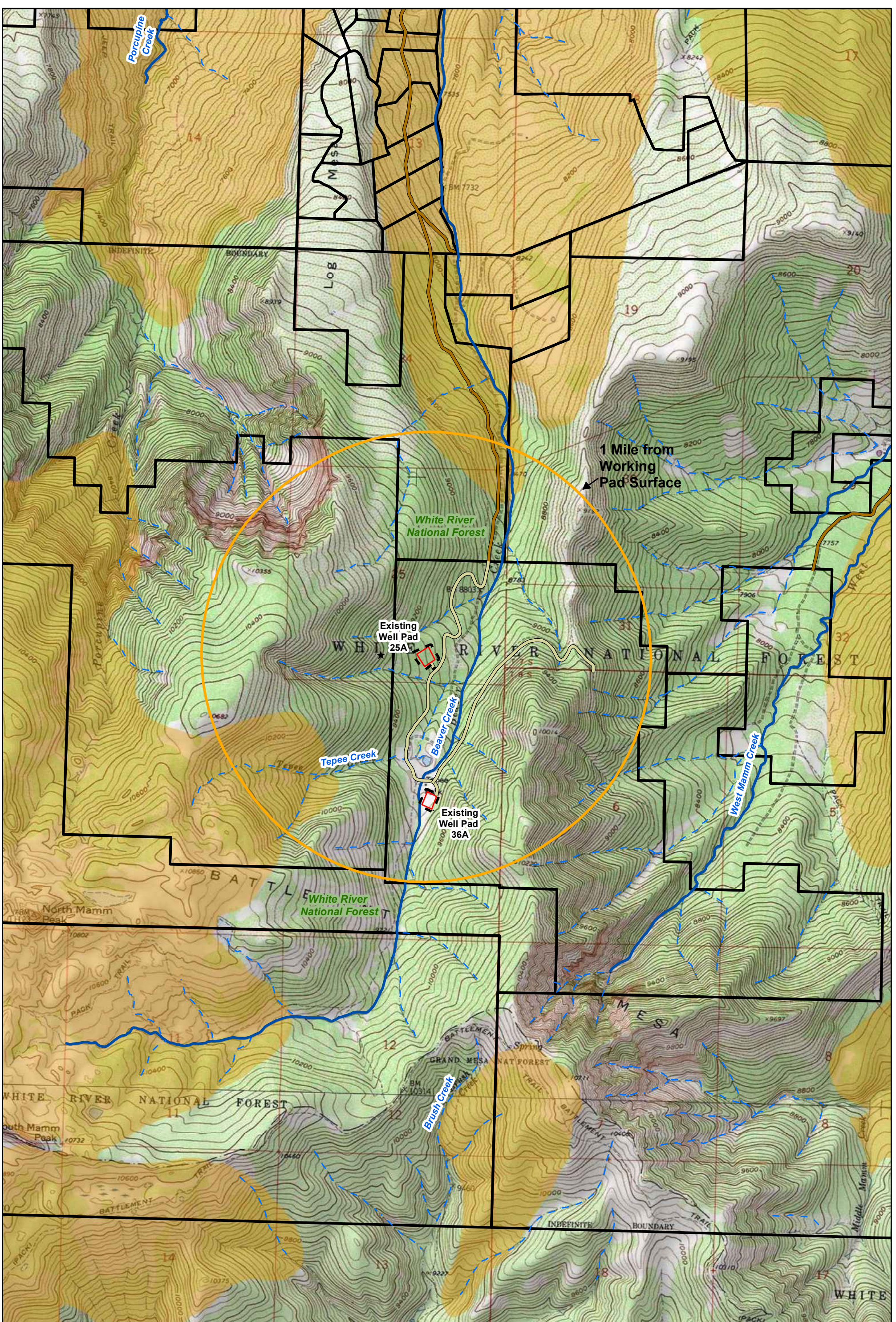
Based on this Geological Hazards Assessment of publicly available information, there are no known Geological Hazards within the Tepee Park Ranch Well Pad 25A Site.

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.

Respectfully submitted,
Walter Environmental & Engineering Group, Inc.



Kenneth L. Walter
B.A., M.S.
Professional Geologist, Colorado
ASTM Environmental Professional
Recognized Environmental Professional, No. 58, Colorado



Aota Technical, LLC

**CPX Piceance Holdings, LLC
Tepee Park Ranch Well Pad 25A
Geologic Hazard Map**

Garfield County
SW1/4SE1/4 Sec. 25, T7S R94W, 6th P.M.

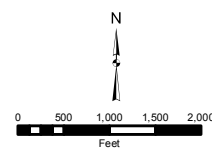
Date
12/29/21

Figure No.
Figure 6b

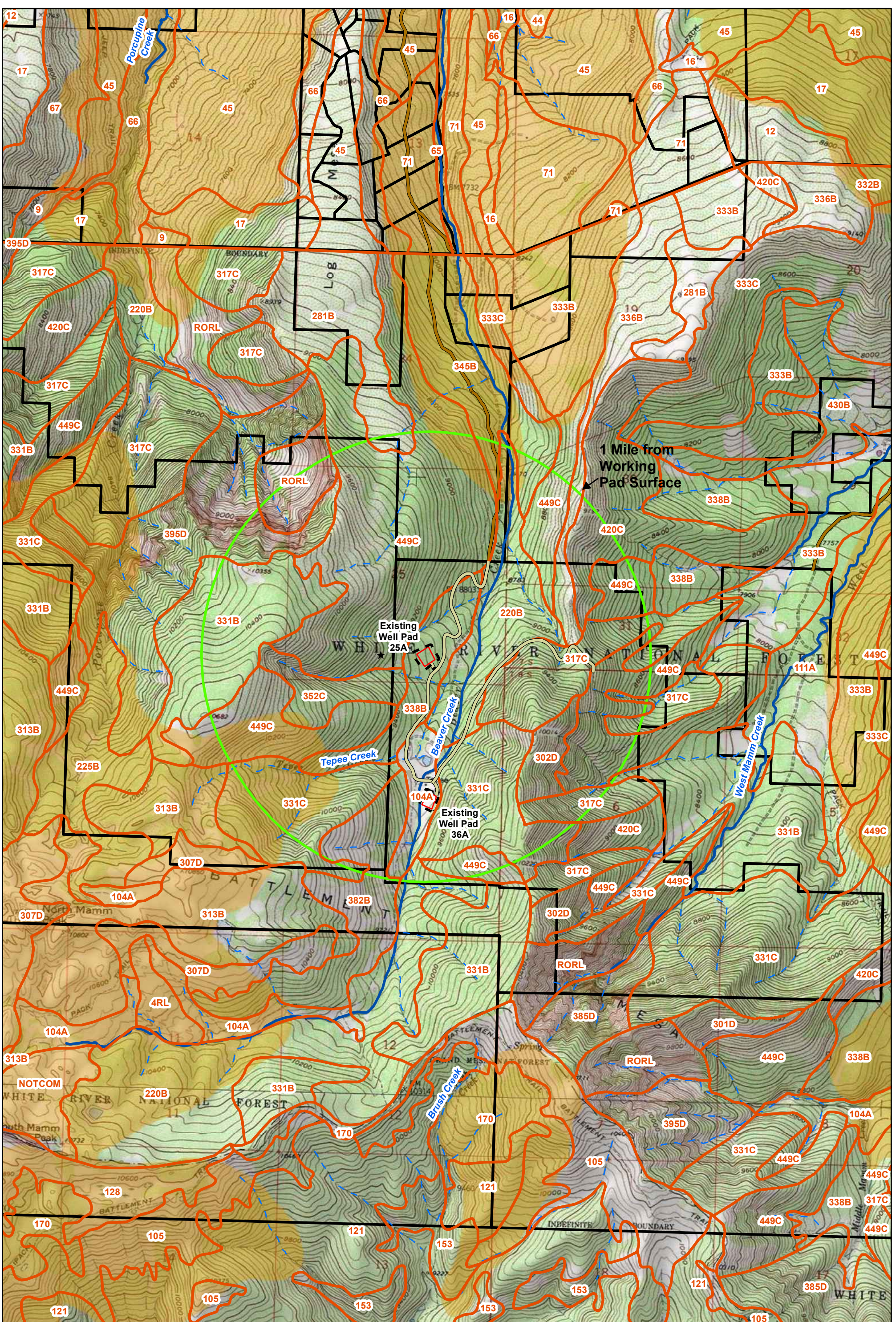
Legend

- Working Pad Surface
- Oil and Gas Location
- 1 Mile from Working Pad Surface
- Forest Service Road
- Private Road
- Existing Access Road
- Perennial Stream
- Intermittent Stream
- Forest Service Jurisdiction
- Parcels
- Landslides
- Permitted Shale Excavation

Water Figure 1



Data Source:
COGCC GIS Online
Colorado Department of Natural Resources
Colorado Geological Survey
U.S. Geological Survey, Prospect and Mine Related Features
U.S. Geological Survey, National Hydrography Dataset



Aota Technical, LLC

CPX Piceance Holdings, LLC
Tepee Park Ranch Well Pad 25A
Geologic Hazard Map
 Garfield County
 SW1/4SE1/4 Sec. 25, T7S R94W, 6th P.M.

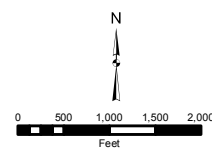
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 12/30/21

Figure No.
Figure 6c

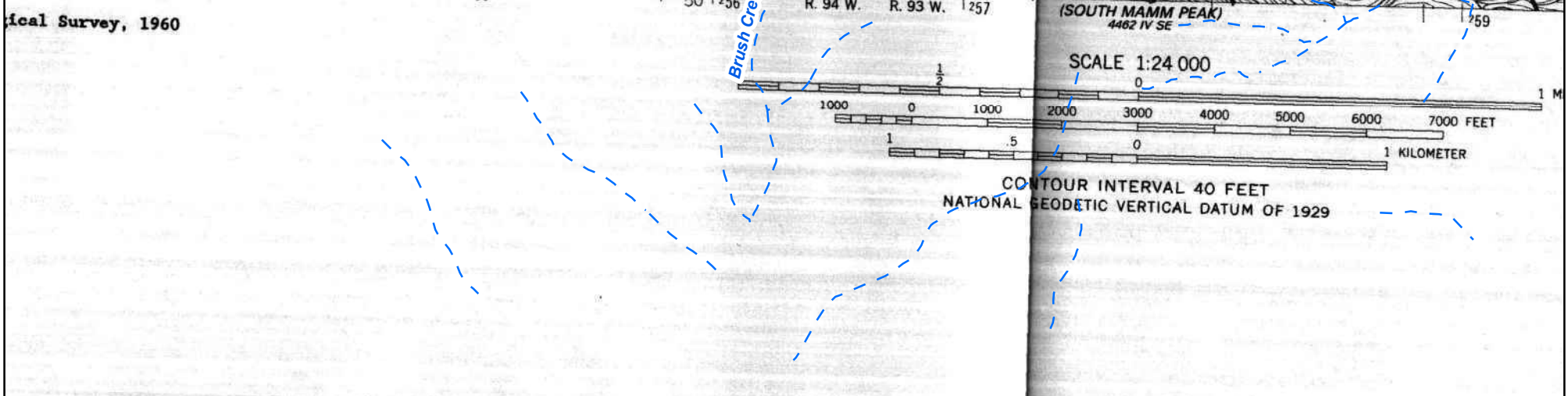
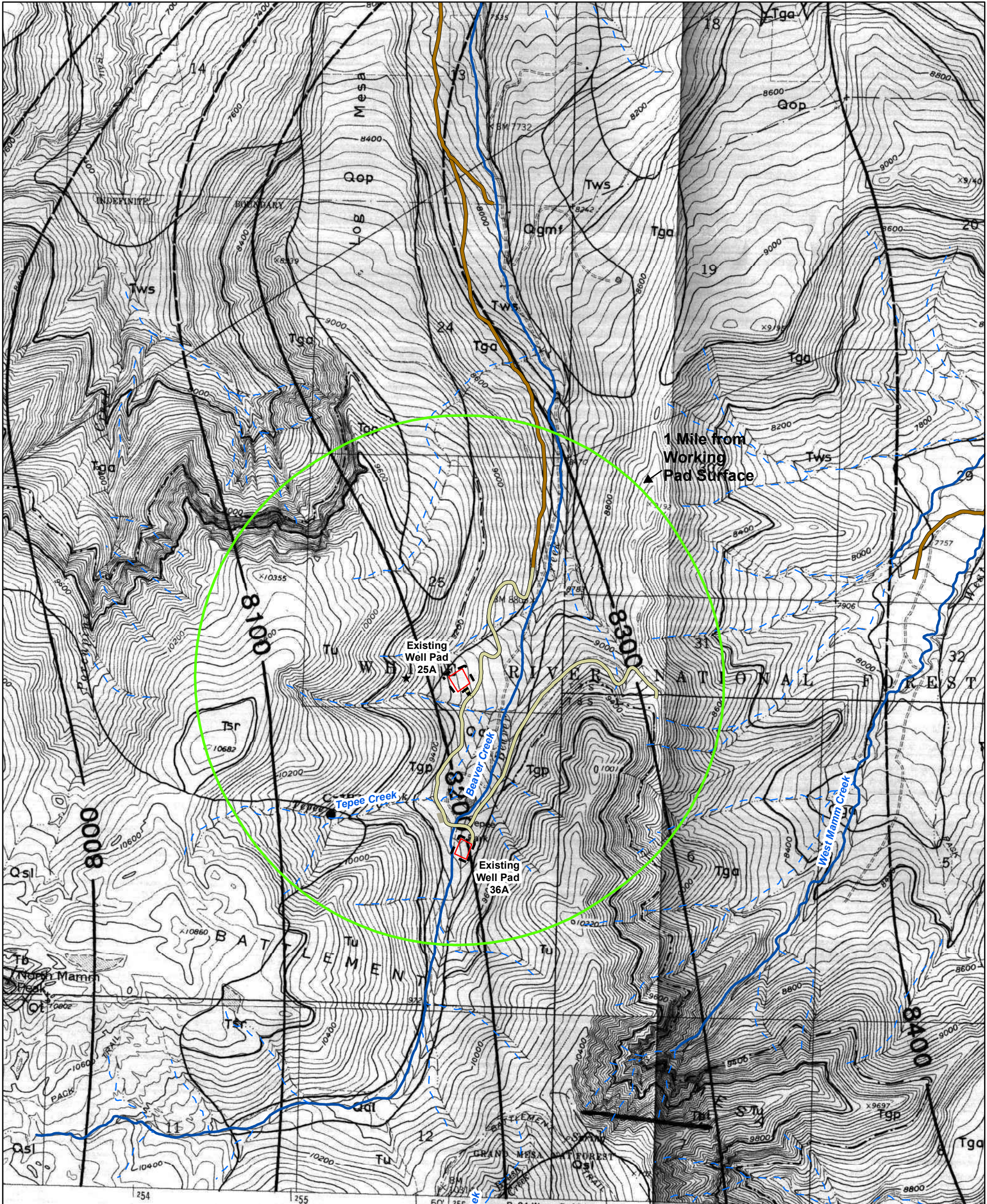
Legend

- Working Pad Surface
- Oil and Gas Location
- 1 Mile from Working Pad Surface
- Forest Service Road
- Private Road
- Existing Access Road
- Perennial Stream
- - - Intermittent Stream
- NRCS Soil Survey
- Landslides
- ★ Permitted Shale Excavation

Walter Figure 2



Data Source:
 COGCC GIS Online
 Colorado Department of Natural Resources
 Colorado Geological Survey
 Natural Resources Conservation Service, Web Soil Survey
 U.S. Geological Survey, Prospect and Mine Related Features
 U.S. Geological Survey, National Hydrography Dataset



Aota Technical, LLC
 CPX Piceance Holdings, LLC
 Tepee Park Ranch Well Pad 25A
Geologic Hazard Map - Bedrock Geology
 Garfield County
 SW1/4SE1/4 Sec. 25, T7S R94W, 6th P.M.

Date 2/22/22	Figure No. Figure 6e
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- Legend**
- Working Pad Surface
 - Oil and Gas Location
 - 1 Mile from Working Pad Surface
 - Forest Service Road
 - Private Road
 - Existing Access Road
 - Perennial Stream
 - Intermittent Stream
 - ★ Permitted Shale Excavation

Walter Figure 3

Data Source:
 COGCC GIS Online
 Colorado Department of Natural Resources
 Colorado Geological Survey
 U.S. Geological Survey, Prospect and Mine Related Features
 U.S. Geological Survey, National Hydrography Dataset
 U.S. Geological Survey, Geologic Map of the North Mamm Peak
 quadrangle, Garfield County, Colorado

Resume of KENNETH L. WALTER

Principal, **Walter Environmental & Engineering Group, Inc.**

EDUCATION

Master of Science, Engineering Geology: University of Massachusetts at Amherst, 1982
Bachelor of Arts, Geology: Queens College of the City University of New York, 1978

EXPERIENCE

Walter Environmental & Engineering Group, Inc., Principal Scientist, 1998-Present
Mesa Environmental, Inc., Senior Scientist, 1997-1998
Walsh Environmental, Inc., Principal Hydrogeologist, 1991-1997
EnecoTech, Inc., Associate Hydrogeologist, 1988-1991
CTL/Thompson, Inc., Engineering Hydrogeologist, 1984-1988

SELECTED PROJECT EXPERIENCE

The following pages provide a brief summary of Ken's 30+ years of diverse project experience.

Petroleum Industry - Upstream

Due Diligence

- Multiple Ohio Brine-Injection Disposal Facilities Due-Diligence Assessment
- Augustus Energy Partners, LLC, Natural Gas Well Sites and Gas Processing Plant, Colorado and Utah, Due-Diligence Assessment
- Shell Properties Acquisition, Due Diligence Investigation, Western Colorado
- Post Oak Energy Natural Gas Well Sites and Gas Processing Plant, Colorado and Utah, Due-Diligence Assessment

Assessment

- Williams Drilling Mud Disposal Options Investigation, Piceance Basin
- WPX Pit Monitoring-Well Installations, Western Colorado
- COGCC Fugitive Gas Migration Fracture Study, Silt, Colorado
- COGCC Domestic Water Sampling Program, Western Colorado
- COGCC Brine-Affected Soil Investigations, DeBeque, Colorado
- BOPCO Gas-Plant Acquisition Assessment, Meeker, Colorado

Remediation

- Halliburton Yard Blast-Media Disposal Permitting and Cleanup, Clifton, Colorado

Compliance

- Encana Comprehensive Waste-Management Plan, Piceance, Colorado
- WPX SPCC Plans, Western Colorado

Petroleum Industry - Downstream

Closure

- Former Landmark Refinery, Fruita Colorado
 - 55k-Barrel Tank Closures
 - VCUP Closure Sampling/Reporting
 - API Separator Closure
 - Drum-Storage Yard Closure

Resume of KENNETH L. WALTER (continued)
Principal, **Walter Environmental & Engineering Group, Inc.**

SELECTED PROJECT EXPERIENCE (continued)

Assessment

- More than 250 retail UST sites in Kansas, Missouri, Iowa, North Dakota, South Dakota, Florida, Nebraska, Colorado, Wyoming, Arizona, Oklahoma, and California.
- Rangely Colorado Brownfield Former Gas Stations Assessment/Tank Closure
- Ground-Water Characterization, Former Landmark Refinery, Fruita, Colorado
- Former Landmark Refinery Brownfield Grant Application, Fruita Colorado.

Remediation

- Former Landmark Refinery CAMU Treatment Optimization Study, Fruita Colorado
- 5S Station SVE/Sparge Remediation, Rangely, Colorado
- Amoco Terminal Ground Water Remediation & LNAPL Recovery, Council Bluffs, Iowa
- LNAPL Recovery System Design, Installation, and O&M, Former Landmark Refinery, Fruita, Colorado
- LNAPL Recovery System Design, Installation, and O&M, Frontier Refinery, Cheyenne, WY
- Building 941 LNAPL Recovery Design and O&M, Sioux Gateway Airport, Sioux City, IA
- LNAPL & Ground-Water Containment System, Frontier Refinery, Cheyenne, Wyoming

Due Diligence

- Westcourt's Diamond Shamrock Retail Station Acquisition Assessments, Utah and Colorado

Compliance

- SPCC Plans - Multiple Clients, Western Colorado
- Facility Response Plans - Multiple Clients, Western Colorado
- Former Landmark Refinery Waste-Management Plan, Fruita, Colorado

General Environmental Assessment

- More than 1,250 ASTM Phase I Environmental Site Assessments throughout the United States
- Greater than 50 Phase II Environmental Site Assessments throughout the United States
- Riverside Parkway Concept Plan Environmental Assessment, Grand Junction, Colorado
- Combined Sewer Elimination Project, Environmental Risk Investigation, Grand Junction, Colorado.
- Engineering Design and Operations Plan, Soil and Ground Water Investigations, Produced-Water Evaporation Pond Facilities, Utah and Colorado
- Assessment and Remediation - Leightner/Poma Yard Metals Contamination, Grand Junction, Colorado
- Bureau of Reclamation Aamodt Environmental Due-Diligence Investigations, New Mexico

Resume of KENNETH L. WALTER (continued)
Principal, **Walter Environmental & Engineering Group, Inc.**

SELECTED PROJECT EXPERIENCE (continued)

Mining

- Brohm Mining Spring and Seep Study, Lead, South Dakota
- Red Arrow Illegal Mine and Mill, Emergency-Response Assessment, Mancos, Colorado
- High-Wall Slope Stability Design, Peabody Coal Company, Craig, Colorado
- Moraine Lake Stability Evaluation, Colorado Springs, Colorado
- Former Coal Basin Mine Due Diligence Investigation, Redstone, Colorado

Environmental Compliance

- Industrial Stormwater Management Plans, Multiple Clients, Western Colorado
- Moab DOE UMTRA Facility, Comprehensive Environmental-Compliance Audit, Moab, UT

Hydrogeology

- Hydrogeologic (Water Supply) Investigation, Thornton Municipal Golf Course, Thornton, Colorado.
- Ground Water Investigation, Green Valley Ranch, Colorado.
- Water Supply Evaluation, Gilt Edge Mine, Brohm Mining Corp., Deadwood, South Dakota
- Cool Springs Ranch Water Supply Investigation, Archuleta County, Colorado

REGISTRATIONS and AFFILIATIONS

Colorado Professional Geologist
ASTM Environmental Professional
Recognized Environmental Professional No. 58, Colorado
OSHA 40-Hour, 8-Hour Training Courses in Hazardous Waste Operations
FAA Remote Pilot (Small Unmanned Aircraft System) Certificate No. 3916454