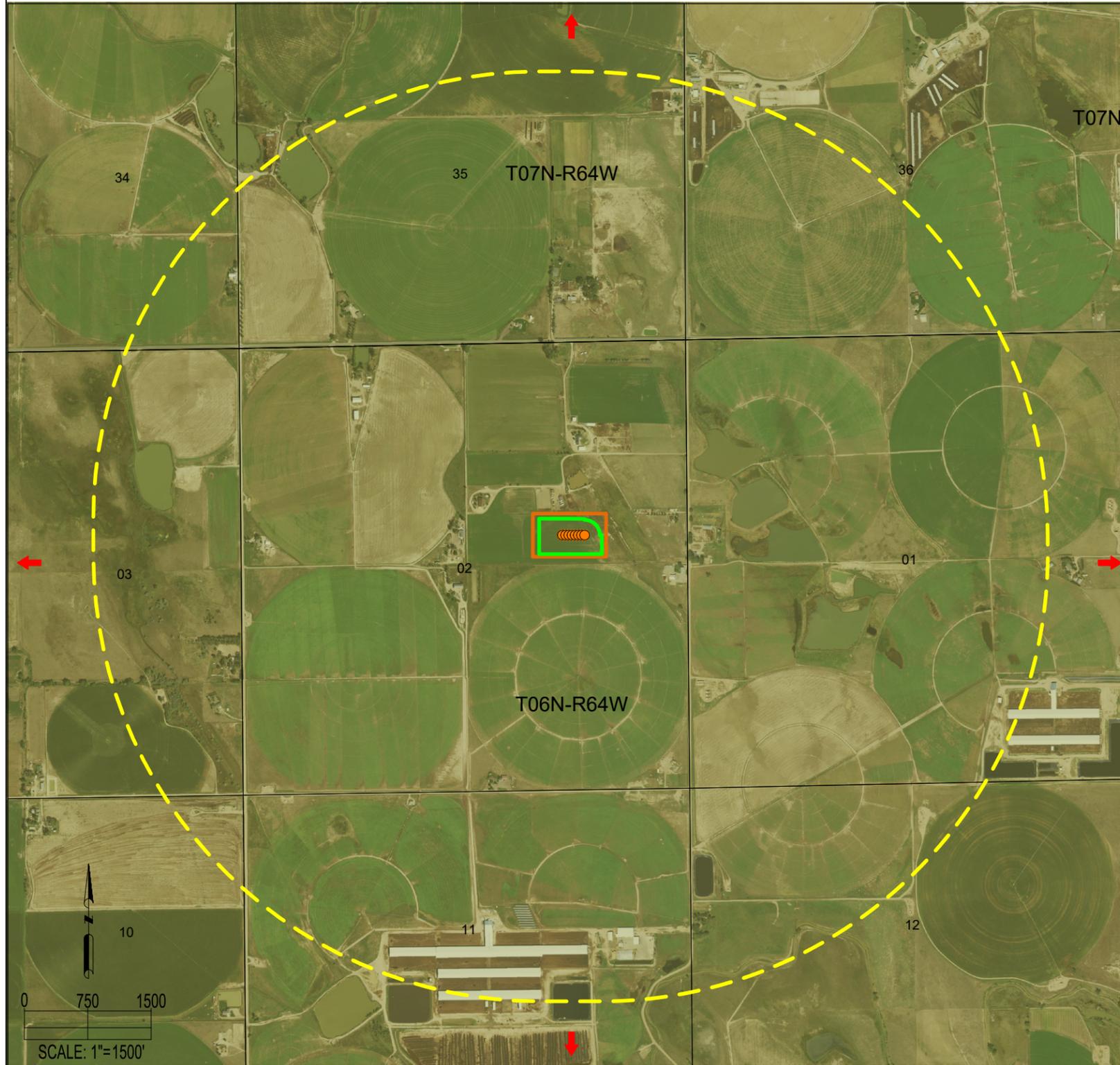


A02-07 PAD GEOLOGIC HAZARD MAP



GEOLOGIC HAZARDS:
(AS MEASURED FROM THE PROPOSED WORKING PAD SURFACE)

THERE ARE NO GEOLOGIC HAZARDS WITHIN THE ONE MILE RADIUS

HAZARD TYPE	DISTANCE (N/A IF >5280')	SOURCE, DESCRIPTION IF <5280'
AVALANCHES	N/A	COGCC GIS, WELD COUNTY PROPERTY PORTAL, CO GEOLOGIC SURVEY MAPS
LANDSLIDES	N/A	COGCC GIS, WELD COUNTY PROPERTY PORTAL, CO GEOLOGIC SURVEY MAPS
ROCK FALLS	N/A	COGCC GIS, WELD COUNTY PROPERTY PORTAL, CO GEOLOGIC SURVEY MAPS
MUDFLOWS	N/A	COGCC GIS, WELD COUNTY PROPERTY PORTAL, CO GEOLOGIC SURVEY MAPS
UNSTABLE OR POTENTIALLY UNSTABLE SLOPES	N/A	COGCC GIS, WELD COUNTY PROPERTY PORTAL, CO GEOLOGIC SURVEY MAPS
SEISMIC EFFECTS	N/A	COGCC GIS, WELD COUNTY PROPERTY PORTAL, CO GEOLOGIC SURVEY MAPS
RADIOACTIVITY	N/A	COGCC GIS, WELD COUNTY PROPERTY PORTAL, CO GEOLOGIC SURVEY MAPS
GROUND SUBSIDENCE	N/A	COGCC GIS, WELD COUNTY PROPERTY PORTAL, CO GEOLOGIC SURVEY MAPS
MINE EXTENT	N/A	COGCC GIS, WELD COUNTY PROPERTY PORTAL, CO GEOLOGIC SURVEY MAPS

COLLAPSIBLE SOILS ARE EXTENSIVE BEYOND REASONABLE MAP SCALE (DATA SOURCE: CGS)

THE FOLLOWING SOURCES HAVE BEEN CONSULTED TO DETERMINE IF ANY HAZARDS EXIST AND TO ASCERTAIN THE BOUNDARIES OF ANY IDENTIFIED HAZARDS:

- COGCC GIS: https://cogccmap.state.co.us/cogcc_gis_online/
 - Weld County Property Portal: <https://www.co.weld.co.us/maps/propertyportal/>
 - Colorado Geological Survey: ON-001 -- Colorado Earthquake and Fault Map <https://cgsarcimage.mines.edu/ON-001/>
 - ON-006-01 -- Statewide Landslide Inventory Map <https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=9dd73db7fbc34139abe51599396e2648>
 - ON-006-06 -- Colorado Historic Coal Mines <https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=1891e3149eda44af9dc8af81c4dc58a8>
 - ON-B-40M -- Radioactive Mineral Occurrences of Colorado and Bibliography <https://cologeosurvey.maps.arcgis.com/apps/webappviewer/index.html?id=c5381e1335284d63bfa5d4b018b3372f>
- CLIENT PROVIDED DATA MAY ALSO BE UTILIZED BEYOND THESE SOURCES.

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES.
PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS, PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.



FIELD DATE: 07-09-19
DRAWING DATE: 07-22-21
DRAWN BY: JDH
CHECKED BY: IJM

SITE NAME: A02-07 PAD
SURFACE LOCATION: SW 1/4 NE 1/4 SEC. 2, T6N, R64W, 6TH P.M. WELD COUNTY, COLORADO

DATA SOURCE: AERIAL IMAGERY: NAIP 2019
GEOLOGIC HAZARDS: COUNTY GIS, COGIS, USGS GIS
PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY ASCENT.

LEGEND:
 = PROPOSED WELL
 = SECTION LINE
 = TOWNSHIP LINE
 = 5280' RADIUS FROM WPS
 = OIL & GAS LOCATION
 = WORKING PAD SURFACE
 = COLLAPSIBLE SOILS
 = EXTENT OF COLLAPSIBLE SOILS

PREPARED FOR:

To: Mo Montoya and Ann Feldman regarding WR OGD 3

Referring: COGCC Operator Guidance in accordance to Rule 304.b(7).1 and 304.c.(21)

In regards to Location (A02-07 Pad) in Township 6N, Range 64W, and Section 2:

NO SIGNIFICANT HAZARDS HAVE BEEN IDENTIFIED:

I, Cody Allen, 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 surrounding area provided by Ascent Geomatic Solutions, and identify no Geologic Hazards within a one mile radius. Sources provided include: The COGCC GIS, Weld County Property Portal, and Colorado Geologic Survey Maps. Hazards types investigated include avalanches, landslides, rock falls, mudflows, unstable slopes, seismic effects, radioactivity, ground subsidence, and mine extents as published by the above sources.

In regards to (AB35-10 Facility) in Township 7N, Range 64W, and Section 35:

NO SIGNIFICANT HAZARDS HAVE BEEN IDENTIFIED:

I, Cody Allen, 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 surrounding area provided by Ascent Geomatic Solutions, and identify no Geologic Hazards within a one mile radius. Sources provided include: The COGCC GIS, Weld County Property Portal, and Colorado Geologic Survey Maps. Hazards types investigated include avalanches, landslides, rock falls, mudflows, unstable slopes, seismic effects, radioactivity, ground subsidence, and mine extents as published by the above sources.

In regards to Location (AB35-11 Pad) in Township 7N, Range 64W, and Section 35:

NO SIGNIFICANT HAZARDS HAVE BEEN IDENTIFIED:

I, Cody Allen, 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 surrounding area provided by Ascent Geomatic Solutions, and identify no Geologic Hazards within a one mile radius. Sources provided include: The COGCC GIS, Weld County Property Portal, and Colorado Geologic Survey Maps. Hazards types investigated include avalanches, landslides, rock falls, mudflows, unstable slopes, seismic effects, radioactivity, ground subsidence, and mine extents as published by the above sources.



Date: August 30th, 2021



Cody Allen

Senior Geologist - RBU

Mobile: 281-382-5220

Email: cody.allen@chevron.com

<https://www.chevron.com>

Attachment 1: Professional Credentials

Cody L. Allen

◆ Denver, CO.

◆ (720)-284-8758 (cell)

◆ cody.allen@chevron.com

WORK EXPERIENCE

2021-Present Rockies Business Unit, Senior Geologist A&D, Chevron, Denver, CO
2020-2021 U.S. Onshore Exploration Manager, Noble Energy Inc., Houston, TX
2017-2020 Business Development, Geoscience Supervisor, Noble Energy Inc., Houston, TX
2016- 2017 New Ventures Mexico Exploration, Senior Geologist; Team Lead, Noble Energy Inc.,
2012-2016 Gulf of Mexico Exploration, Geologist 3, Noble Energy Inc., Houston, TX
2011-2012 Eastern Mediterranean Development, Geologist 2, Noble Energy Inc., Houston, TX
2010-2011 Gulf Coast and West Texas Exploration/ Development, Geologist 1, Noble Energy Inc.
2008-2009 Geologist, Noble Energy Inc., Denver, CO
2006-2008 Geophysical Engineer, Colog Inc, Denver, CO

EDUCATION

Colorado State University: (2008-2010)

Master of Science, Geosciences, 2010

Thesis: Timing and Genesis of Fractures in the Niobrara Formation, Northeastern Front Range and Denver Basin, Colorado (GPA: 3.83)

Western State Colorado University: (2002-2005)

Bachelor of Arts, Geology, 2005.

Senior Thesis: Structure and Depositional Analysis of the Triassic Moenkopi Formation, Gateway, CO to Fisher Towers, Utah (Overall GPA: 3.16, GPA in major: 3.38)

O&G and LEADERSHIP TRAINING

Harvard ManagerMentor; Business Review Modules:

Courses: Work Place Ethics, Strategic Thinking, Innovation and Creativity, Difficult Interactions, Crisis Management, Global Collaboration

Nautilus, SCA, Rose and NBL In-house Training:

Courses: Unconventional Resource and Risk assessment, Geochemistry and Petroleum System Modeling, Salt Tectonics Field Seminar (Nova Scotia), Deepwater Depositional System Stratigraphy for Exploration and Development, Reservoir Engineering for Geoscientists, Gravity and Magnetism for the Oil Industry, Petrophysics, Rock Physics for Seismic Interpretation, Subsurface Geological Mapping
Several others

Software Skills: Petra, Transform, Spotfire, Geoframe IESX, Petrel, Kingdom Suite SMT, RokDoc, ArcGIS,

HONORS/AWARDS

2018, 2011 Noble Energy Internal Technology Conference "Talk of the Year" award
2017, 2016, 2015 Nominee for Noble Energy Mentor of the Year award
2016 Noble "LEAD" Program Graduate for future company leaders
2016 Noble Energy Geologic Steering Committee Member
2014, 2015 Noble Energy Technology Conference Chairman
2012 Desk and Derrick certificate of appreciation, Guest Speaker for North Harris County
2005 Rocky Mountain Association of Geologists "Outstanding Senior Student"