

Reviewed by:
Jeffrey Schroeder
 Jeffrey Schroeder
 Senior Geologist
 CRESTONE PEAK RESOURCES

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 ONE GEOLOGIC HAZARD: SINCE THE LOCATION IS WITHIN DISTURBED GRASSLAND WE DON'T BELIEVE THAT EG-14 EOLIAN SOILS ARE PRESENT IN SIGNIFICANT ENOUGH QUANTITIES TO ADVERSELY IMPACT THE PROPOSED PROJECT. ADDITIONALLY, BOTH THE TOPSOIL AND GEOTECH SURVEYS PERFORMED FOR THE PROPOSED LOCATION CONFIRM THAT SAND IS BOUND BY OTHER MATERIALS (I.E. CLAY); EROSION FROM WIND OR WATER IS MINIMAL. THE SOIL CORES WERE CLASSIFIED AS MEDIUM DENSE TO STIFF TO VERY STIFF.

NOTE:

GEOLOGIC HAZARDS WITHIN 1 MILE OF WPS:
 EG-14 DUNE AND SHEET SAND DEPOSITS AND EG-14 CRETACEOUS AND TERTIARY FORMATIONS.

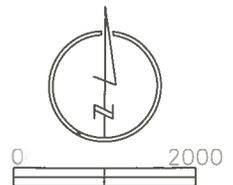
SOURCES/HAZARDS REVIEWED:
 1. COGCC - GEOLOGIC HAZARDS
 -[HTTPS://COGCC.STATE.CO.US/ DATA2.HTML#/DOWNLOADS](https://cogcc.state.co.us/data2.html#/downloads)

- a. DRMS MINE
- b. CGS COAL MINE
- c. COAL AREA
- d. EARTHQUAKES

2. COLORADO GEOLOGICAL SURVEY
 -[HTTPS://COLORADOGEOLOGICALSURVEY.ORG/GIS-DATA-MAP-PORTAL/](https://coloradogeologicalsurvey.org/gis-data-map-portal/)
- a. FAULT LINES
 - b. COLLAPSIBLE SOILS
 - c. COAL MINES

LEGEND

- LIMITS OF DISTURBANCE AREA
- WORKING PAD SURFACE
- 5280' BUFFER
- EG-14 DUNE AND SHEET SAND DEPOSITS
- EG-14 CRETACEOUS AND TERTIARY FORMATIONS



LAMP RYNEARSON

LAMPRYNEARSON.COM



OMAHA, NEBRASKA
 14710 W. DODGE RD. STE. 100 (402)498.2498
 FORT COLLINS, COLORADO
 4715 BIRCHVAULT DR. STE. 100 (970)228.0342
 KANSAS CITY, MISSOURI
 0001 STATE LINE RD. STE. 200 (816)381.0440

DESIGNER / DRAFTER
 JUP/JHF
 REVIEWER
 MAP
 PROJECT NUMBER
 0221036
 DATE
 03/18/2022
 SURFACE LOCATION
 NE1/4, SE1/4, SEC 25,T4N,R65W
 BOOK AND PAGE

**SHELTON CPR-25
 GEOLOGIC HAZARDS
 MAP**