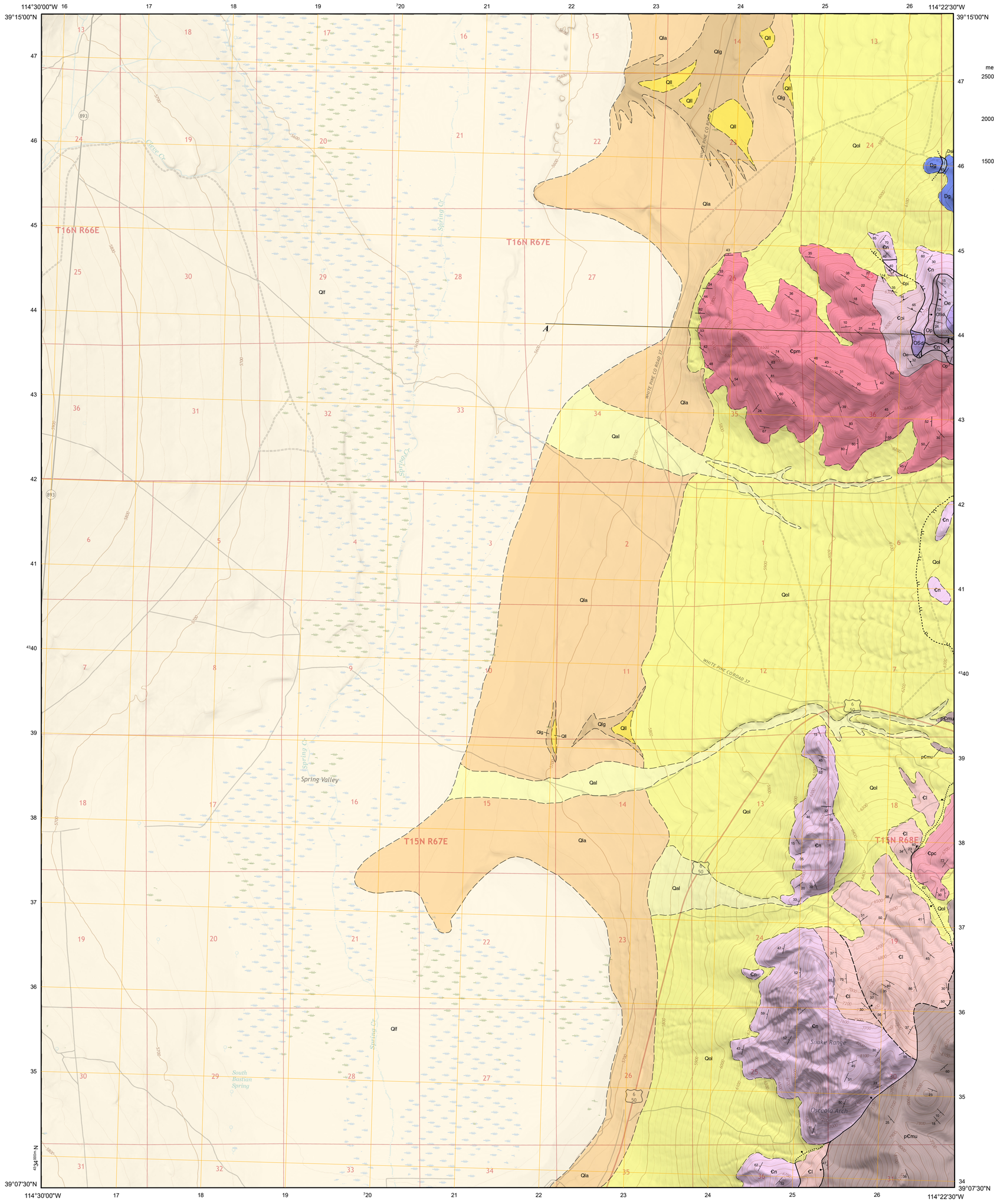
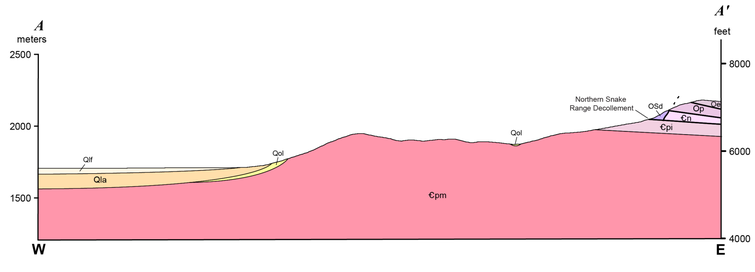
NEVADA BUREAU OF MINES AND GEOLOGY

Research supported by the U.S. Geological Survey, National Cooperative Geologic Mapping Program, under USGS award number G21AC10873.

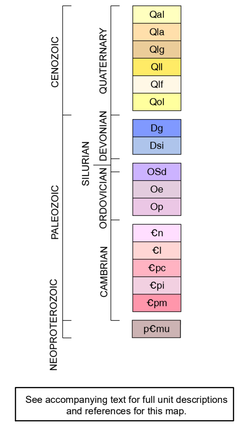
OPEN-FILE REPORT 2023-04
GEOLOGIC MAP OF THE SOUTH BASTIAN SPRING QUADRANGLE, WHITE PINE COUNTY, NEVADA
Text accompanies map





STRATIFIED ROCK UNITS

- Qal — **Active alluvium (Quaternary)**
- Qla — **Lacustrine/alluvial deposits, undivided (Quaternary)**
- Qlg — **Lacustrine gravels (Quaternary)**
- Qll — **Lagoonal deposits (Quaternary)**
- Qlf — **Fine-grained lacustrine deposits (Quaternary)**
- Qol — **Older alluvium (Quaternary)**
- Dg — **Guilmette Formation (Devonian)**
- Dsi — **Simonson Dolomite (Devonian)**
- OSd — **Fish Haven and Laketown Dolomites, undivided (Silurian and Ordovician)**
- Oe — **Eureka Quartzite (Ordovician)**
- Op — **Pogonip Group (Ordovician)**
- €n — **Notch Peak Formation (Upper Cambrian)**
- €l — **Lincoln Peak Formation (Upper Cambrian)**
- €pc — **Pole Canyon Limestone (Middle Cambrian)**
- €pi — **Pioche Shale (Lower Cambrian)**
- €pm — **Prospect Mountain Quartzite (Lower Cambrian)**
- p€mu — **McCoy Creek Group, undivided (Neoproterozoic)**



See accompanying text for full unit descriptions and references for this map.

Contact Solid where certain and location accurate, dashed where approximately located.

Normal fault Solid where certain and location accurate, dashed where approximately located, dotted where concealed. Showing dip; ball on downthrown side. Diamond tipped arrow indicates bearing and plunge of slickenline. *In cross section approximately located faults shown as solid.*

Detachment fault (Northern Snake Range Décollement) Solid where certain and location accurate, dashed where approximately located, dotted where concealed.

Strike and dip of bedding

Inclined Vertical

Strike and dip of metamorphic foliation

Inclined

A — A′ **Line of cross section**

Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

1 South Schell Peak
2 Yelland Dry Lake
3 Sixmile Canyon
4 Cave Mountain
5 South Bastian Spring
6 Sacramento Pass
7 Majors Place
8 Hogum
9 Windy Peak

Scale 1:24,000

0 0.5 1 kilometer

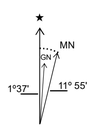
0 0.5 1 mile

0 1000 2000 3000 4000 5000 feet

CONTOUR INTERVAL 20 FEET

Projection: Universal Transverse Mercator, Zone 11, North American Datum 1983 (m)

Base map: U.S. Geological Survey South Bastian Spring 7.5' quadrangle (2021)



UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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2023