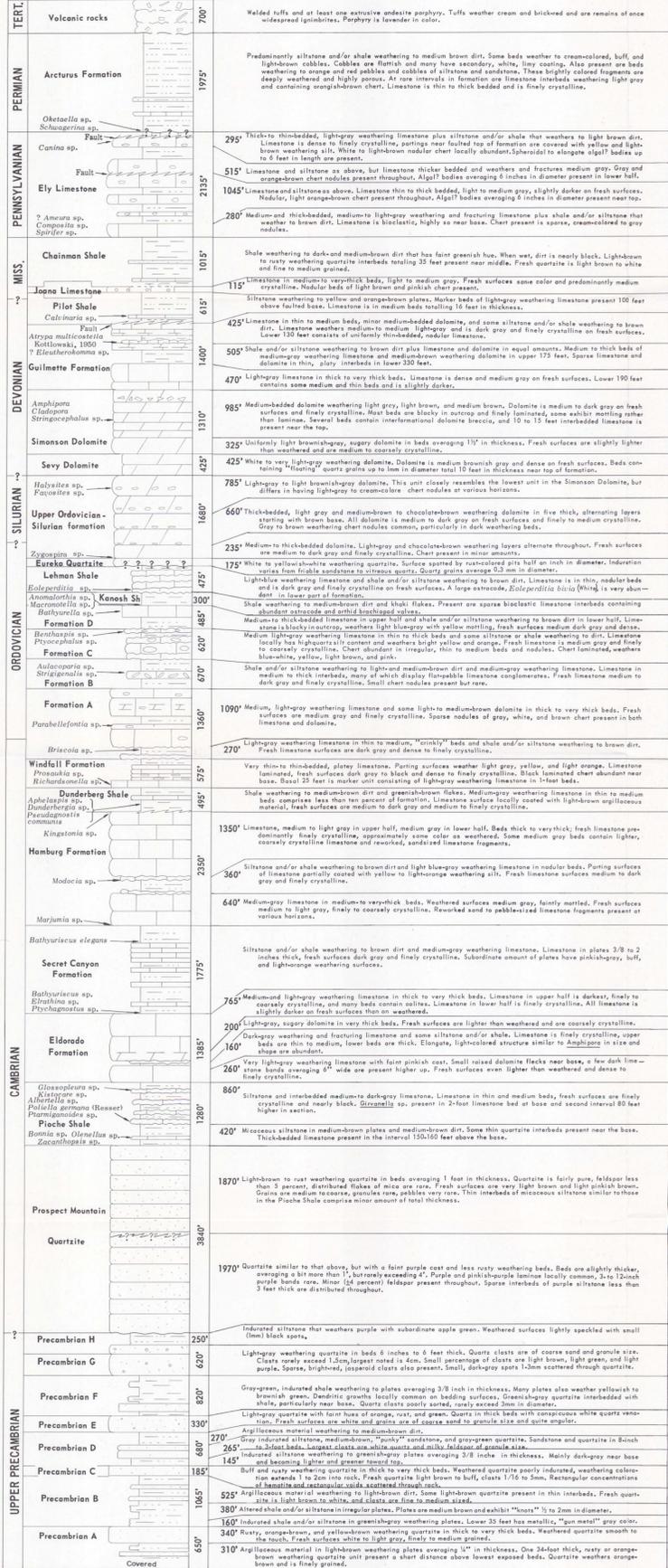


GEOLOGIC MAP AND SECTIONS OF THE SOUTHERN CHERRY CREEK AND NORTHERN EGAN RANGES

WHITE PINE COUNTY, NEVADA

By William H. Fritz

COMPOSITE STRATIGRAPHIC SECTION



PREVIOUS WORKS AND ACKNOWLEDGEMENTS

Few published works give more than brief statements on the geology of the present area. Early workers in the northern portion and...

STRATIGRAPHY

The following comments relate to the stratigraphic section shown to the left. In that section, detailed stratigraphic notes are given...

PRE-TERTIARY STRUCTURE

During Late Precambrian through Early Permian time only mild uplift and subsidence are indicated. The geologic structure of the strata now exposed in the map area...

Thrust sheet I

At each of its various exposures, thrust sheet I is structurally the lowest and contains the oldest rocks. The geologic structure of the strata now exposed in the map area...

Thrust sheet II

Thrust sheet II is located in the southern portion of the map area and is exposed for a short distance south of the border. Here nearly all the Cambrian and part of the early Ordovician (Fformation A),...

Thrust sheet III

The structural pattern north and south of sheet III suggests that sheet III may be an overthrust of sheet II. The Cambrian in sheet III and sheet IV can be seen on the map...

Thrust sheet IV

Thrust sheet IV contains Precambrian through Permian strata, and the entire sheet has undergone considerable right-lateral displacement. The strata in sheet IV are mostly Paleozoic, and the lower part of the sheet is an early and important structure...

Thrust sheet V

Thrust sheet V contains Cambrian through Pennsylvanian strata and possibly some Permian strata at its westward extremity. Faults within this sheet are of local importance, and the sheet is not a highly defined structure as those previously described...

Thrust sheet VI

Thrust sheet VI is a narrow thrust sheet, and one cannot help but speculate that it is part of the larger sheet V and VII. There are some numerous small faults, many of which have formed by sliding to the westward as well as eastward...

Thrust sheet VII

Sheet VII constitutes most of the Cherry Creek Range and extends to the north. It is a broad, low-lying range, and the geologic structure is well developed in contrast to related to its very thin quartzite units in sheet VII...

Summary of pre-Tertiary structure

There is evidence with the mapped area that at least three important events took place after the Mesozoic epoch. The order or possible interrelation of these events has not been established. One event was Tertiary volcanism, now known from the outcrops of volcanic rocks in the Egans...

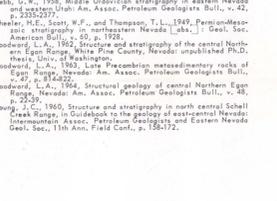
TERTIARY DEFORMATION

There is evidence with the mapped area that at least three important events took place after the Mesozoic epoch. The order or possible interrelation of these events has not been established. One event was Tertiary volcanism, now known from the outcrops of volcanic rocks in the Egans...

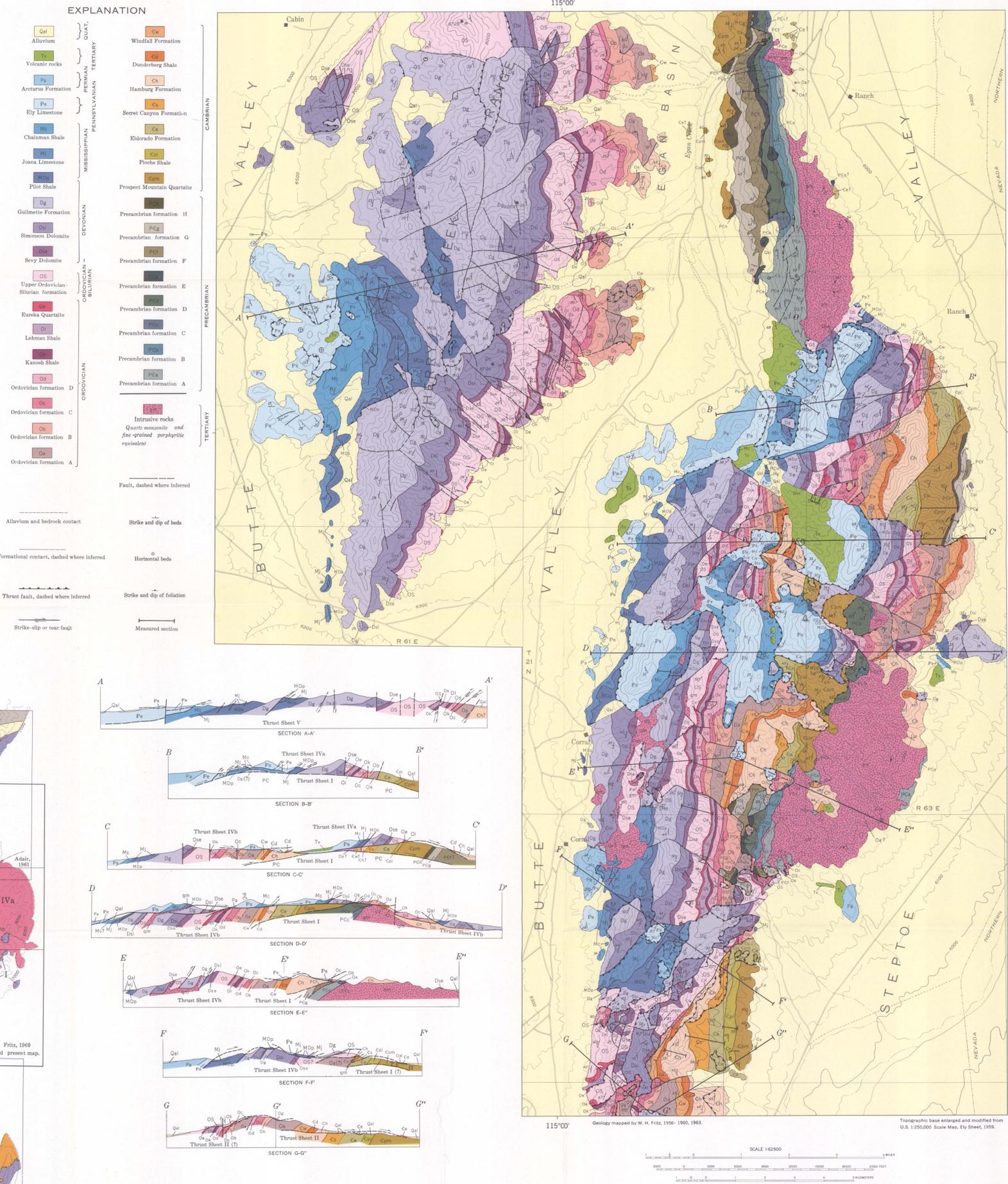
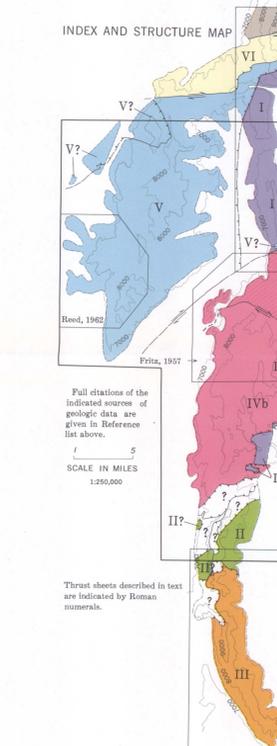
REFERENCES

- Adair, D.H., 1961, Geology of the Cherry Creek district, Nevada. U.S. Geol. Surv. Prof. Paper 488.
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INDEX AND STRUCTURE MAP



EXPLANATION



Geology mapped by W. H. Fritz, 1956-1960, 1963. Topographic base enlarged and modified from U.S. 1:250,000 Scale Map, Egan Sheet, 1959.