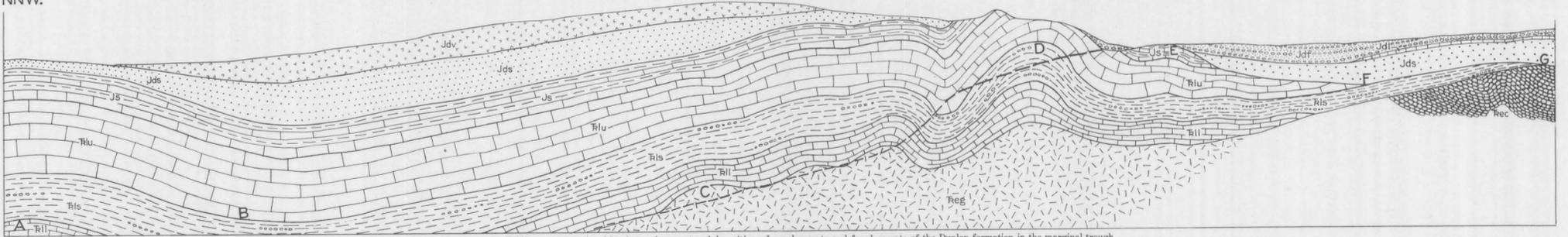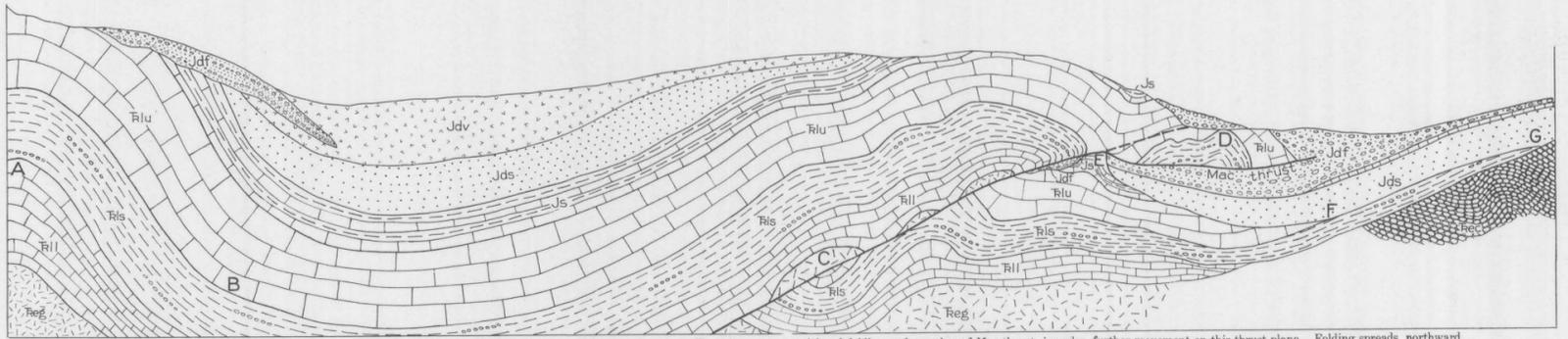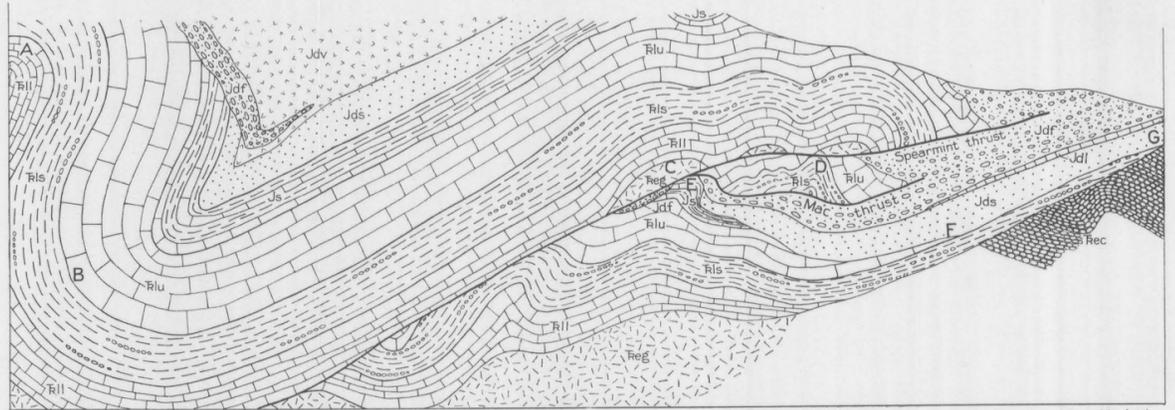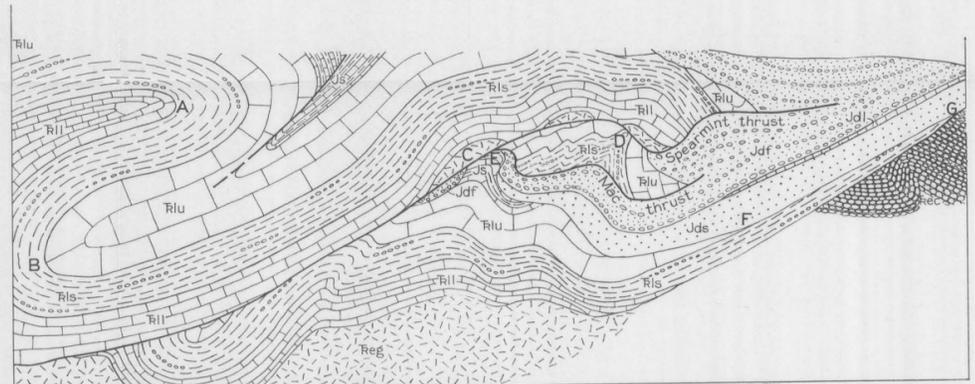NNW.

SSE.

1. Folding near margin of Luning embayment and deposition of conglomerate and fanglomerate of the Dunlap formation in the marginal trough.
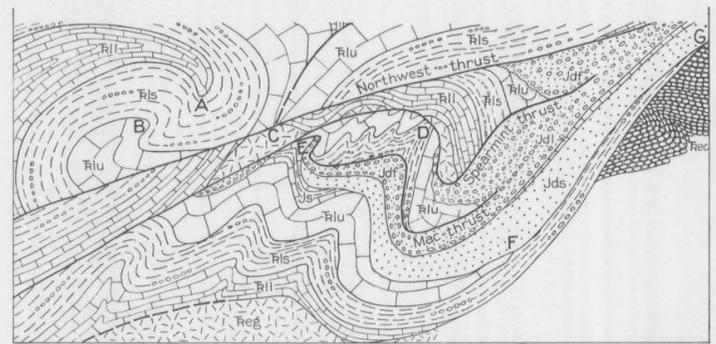
2. Development of Mac thrust on which the folded rocks to the north are carried toward the trough. Deposition of coarse material and folding and warping of Mac thrust, impedes further movement on this thrust plane. Folding spreads northward.
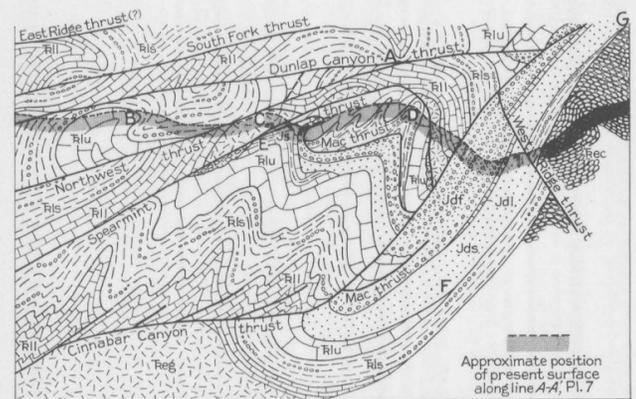
3. Further folding to the north, accompanied by formation of the Spearmint thrust. Movement toward the trough was along an erosion surface cut on the upper plate of the Mac thrust (D on this plate).

4. Folding of Mac and Spearmint thrusts, as further southward movement is impeded. Major fold to the north was compressed into a recumbent syncline.

5. Involution of the fold to the north and its rupture along the Northwest thrust. Further folding of the Mac and Spearmint thrusts.

6. Development of West Ridge thrust on southern margin of the basin. Southward movement of the folded mass along the Cinnabar Canyon thrust, which is assumed to have used, in part, the folded plane of the Spearmint thrust. Folds in the area to the north are carried south along the Dunlap Canyon and South Fork thrusts above the Northwest thrust.

EXPLANATION

Jdv
Volcanics and interbedded sediments

Jdf
Conglomerate and fanglomerate

Jdl
Limestone

Jds
Sandstone

Js
Sunrise and Gabbs formations
(Limestone and shale)

Ʀlu
Massive limestone and dolomite

Ʀls
Slate with conglomerate lenses

Ʀll
Thin-bedded limestone

Ʀec
Chert

Ʀeg
Greenstone and breccia

Thrust

Lower Jurassic — Dunlap formation } JURASSIC
Triassic and Lower Jurassic
Upper Triassic — Luning formation } TRIASSIC
Middle Triassic — Excelsior formation

The sections are not drawn closely to scale but follow roughly the line of section A-A plate 7. The assumed shortening below the Dunlap Canyon and South Fork thrusts is indicated by the changing positions of the points A, B, C, D, E, F, G.

Approximate scale
1   0   1   2   3 Miles

Approximate position of present surface along line A-A, Pl. 7

DIAGRAMMATIC SECTIONS SHOWING PROGRESSIVE DEVELOPMENT OF COMPLEX STRUCTURE IN THE NORTHWESTERN PART OF PILOT MOUNTAINS, NEVADA