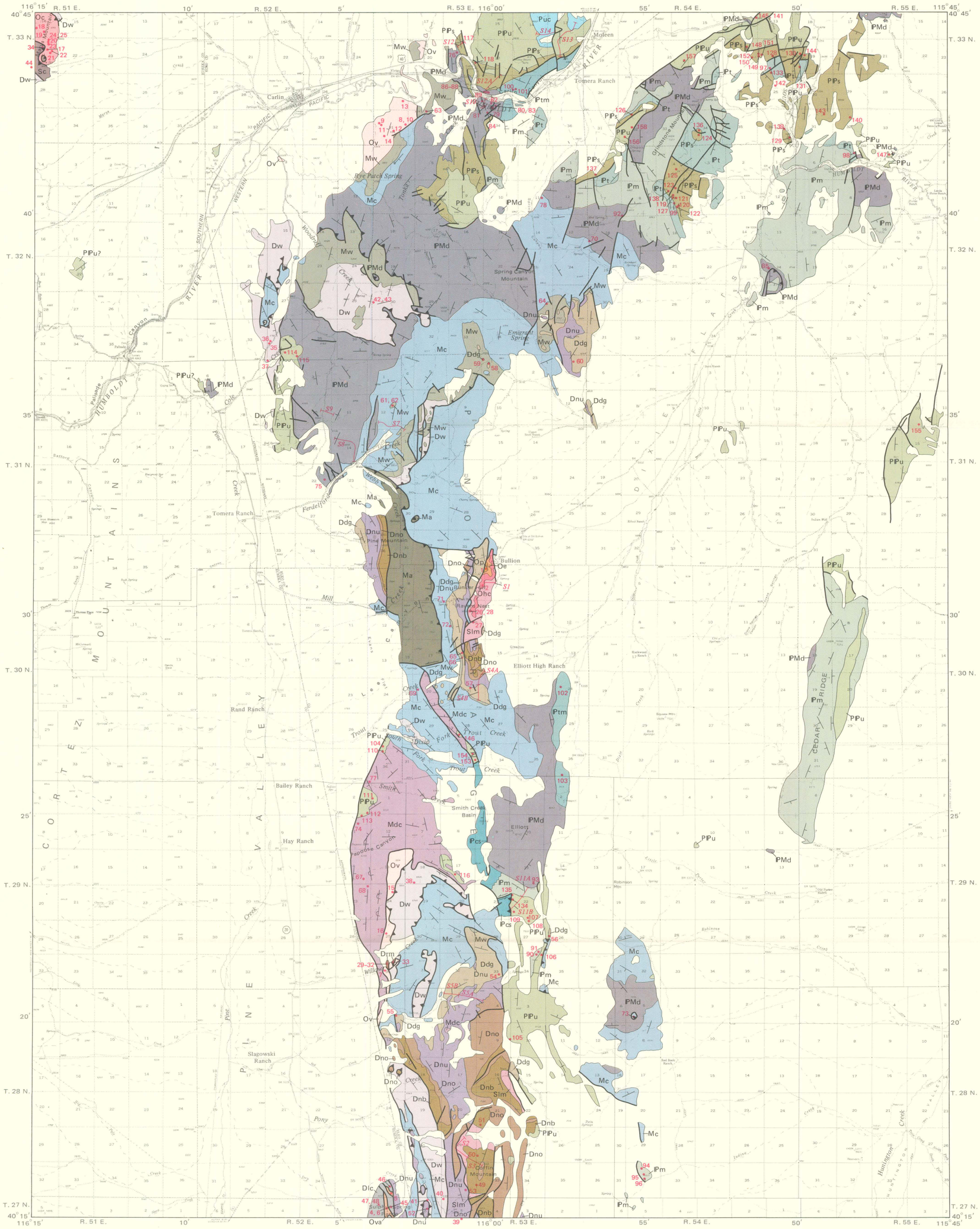
Prepared in cooperation with the
NEVADA BUREAU OF MINES



Base from U.S. Geological Survey 1:62,500, Carlin, Dixie Flats, and Pine Valley, 1952; Robinson Mountain, 1956

APPROXIMATE MEAN DECLINATION, 1974

SCALE 1:125 000

2 0 2 4 6 8 MILES

2 0 2 4 6 8 KILOMETRES

MAP LOCATION

Geology by J. F. Smith, Jr., and K. B. Ketner, 1955–65; field assistants listed in text

EXPLANATION

Mesozoic and younger rocks

Permian and Upper Pennsylvanian rocks
PIPu, *undivided*
Puc, *carbonate rocks, siltstone and much chert*
PIPs, *Strathearn Formation*

UNCONFORMITY

Tomera and Moleen Formations
IPt, *Tomera Formation*
IPm, *Moleen Formation*
IPtm, *undivided*
IPcs, *nearly all siliceous clast conglomerate and sandstone*

Diamond Peak and Chainman Formations
IPMd, *Diamond Peak Formation*
Mc, *Chainman Shale*
Mdc, *undivided*

Webb Formation

Argillite unit of Lee Canyon

Upper Permian
Lower Permian
PERMIAN
Upper Pennsylvanian
PENNSYLVANIAN
Middle Pennsylvanian
Lower Pennsylvanian
Upper Mississippian
Lower Mississippian
MISSISSIPPIAN

UNCONFORMITY

ROBERTS MOUNTAINS THRUST

UPPER PLATE

SILICEOUS ASSEMBLAGE

Woodruff Formation

TRANSITIONAL ASSEMBLAGE

Limestone and Chert

Roberts Mountains Formation (part)
May not be in upper plate

LOWER PLATE

CARBONATE ASSEMBLAGE

Devils Gate Limestone

Nevada Formation
Dnu, *upper dolomite member*
Dno, *Oxyoke Canyon Sandstone Member*
Dnb, *Beacon Peak Dolomite Member*

Upper Devonian
Middle Devonian
Lower Devonian
DEVONIAN

Chert and siltstone of Marys Mountain

Lone Mountain Dolomite

Upper Silurian
Middle or Lower Silurian
SILURIAN

Valmy Formation

Vinini Formation

Claystone, shale, and limestone of Marys Mountain

Hanson Creek Formation

Eureka Quartzite

Pogonip Group (part)

Upper Ordovician
Middle Ordovician
Lower Ordovician
ORDOVICIAN

CONTACT

CONTACT OF INTERFINGERING ROCK UNITS – Diagrammatic

NORMAL FAULT

THRUST FAULT – Sawteeth on upper plate

FAULT – Showing relative horizontal movement

STRIKE AND DIP DIRECTION OF BEDS:

Inclined

Vertical

Overturned

MEASURED STRATIGRAPHIC SECTION – Fossil collections listed in stratigraphic sections in text are not located separately on map

FOSSIL LOCALITY

GENERALIZED GEOLOGIC MAP OF THE PALEOZOIC ROCKS OF THE CARLIN-PINON RANGE AREA, ELKO AND EUREKA COUNTIES, NEVADA

☆ U.S. GOVERNMENT PRINTING OFFICE: 1975—677-310/45