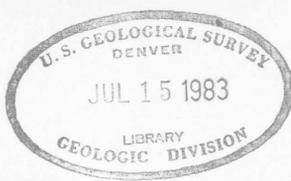


(200)
T67mm
no. 901

EXPLANATION



page 1
Explanation
Figure 2

PLEASE REPLACE IN POCKET IN BACK OF BOUND VOLUME



Leucosyenite



Monzonite

Orange-pink to brownish-red, fine-grained leucosyenite; intrusive; dike ranging in thickness from 25 to 75 feet. Composed almost entirely of alkali feldspar with some hematite, quartz, chlorite, and zircon.

Dark-gray monzonite, weathers light brown to gray; intrusive; sills. Contains plagioclase, potassium feldspar, augite, olivene, and some biotite, magnetite, and apatite.

Relative ages unknown

TERTIARY

Kp

Pierre shale

Predominantly medium-gray clayey shale and some calcareous concretions, interbedded with some siltstone and silty sandstone.

Upper Cretaceous

Kns
Knf

Niobrara formation

Smoky Hill shale member, Kns, light-gray to dusky yellow calcareous shale, and two thick shaly chalk beds.

Fort Hays limestone member, Knf, thin beds of alternating medium- to yellowish-gray limestone, and dark-gray calcareous shale.

UNCONFORMITY

Kb

Benton shale

Light- to medium-gray siltstone at top; black to light-gray calcareous shale, and thin beds of limestone and bentonite in middle; dark-gray shale and thin beds of siltstone and bentonite in lower part.

Lower Cretaceous

CRETACEOUS

Kd

Dakota group undifferentiated

Light-gray quartzose sandstone, light- to dark-gray siltstone, and dark-gray claystone. Conglomerate common in lower part.

UNCONFORMITY

Jm

Morrison formation

Interbedded varicolored claystone, limestone, siltstone, and sandstone.

Upper Jurassic

JURASSIC

Jrc

Ralston Creek formation

Varicolored claystone interbedded with some limestone, siltstone, and sandstone. Contains thin beds and disseminated nodules of varicolored chalcedony.

UNCONFORMITY (?)

R Plk

Lykins formation

Principally grayish-red, shaly mudstone, but includes some thin beds of light-gray, very fine grained sandstone, and some "crinkled" limestone in lower part.

PERMIAN AND TRIASSIC (?)

UNCONFORMITY (?)

Ply

Lyons sandstone

Light-gray to grayish-orange, crossbedded, fine- to medium-grained quartzose sandstone, with some conglomerate, siltstone, and mudstone.

PERMIAN

UNCONFORMITY (?)