



Telem
no 176
(600)



Topography by the
U.S. Geological Survey, 1953

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN
DECLINATION, 1954

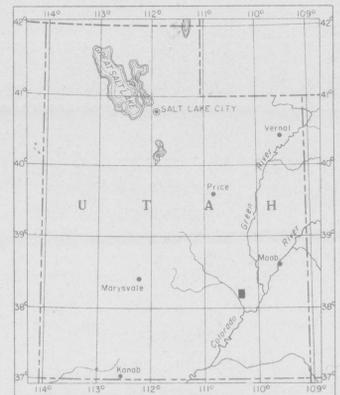


SCALE 1:24000
CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

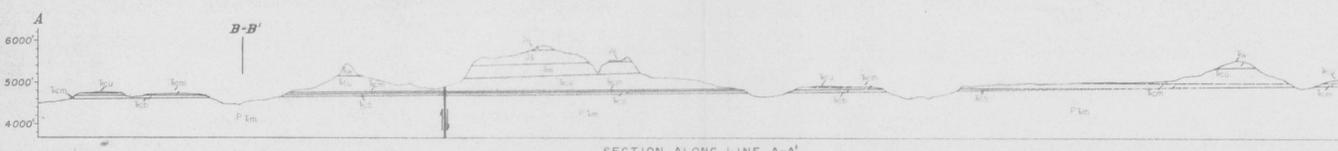
Compiled from photogeologic and field mapping
data 1955-56. Photogeologic interpretation and
plotting by P.P. Orkild using a kesh plotter;
field mapping by F.A. McKeown and C.C. Hawley.

EXPLANATION

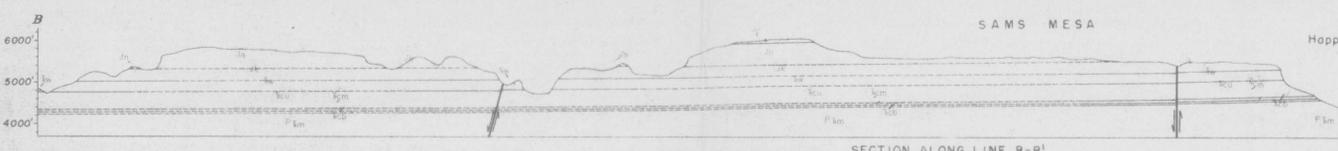
- Recent
 - Qcl
Colluvium
 - Upper Jurassic
 - Je
Entrada sandstone
Sandstone, fine- to medium-grained, white to tan; massive and crossbedded. Very commonly contorted into irregular folds ranging from inches to tens of feet in amplitude.
 - Middle and Upper Jurassic
 - Jc
Carnel formation
Sandstone, very fine to medium-grained, silty, brownish-red and tan. Commonly shaly and thin-bedded. Locally contorted. Locally upper part is interbedded with the overlying Entrada sandstone. Lenses of reworked Navajo sandstone occur locally at the base. Contact with the underlying Navajo formation is sharp.
 - Jn
Navajo sandstone
Sandstone, fine-grained, white and light brownish-orange, massive with large-scale crossbedding; includes rare thin lenses of limestone and red silty sandstone. Commonly forms massive steep-sloped domes and sheer cliffs. Has gradational contact with underlying Kayenta formation.
 - Jk
Kayenta formation
Sandstone, fine- to medium-grained, brownish-red, irregularly thin- to thick-bedded. Rare thin lenses of silty limestone and limestone pebble conglomerate. Forms very steep slopes and cliffs.
 - Jw
Wingate sandstone
Sandstone, fine- to medium-grained, flesh-colored to white; weathered outcrops stained brownish orange; massive and crossbedded; forms sheer cliff where underlying easily eroded Chinle formation crops out.
 - Upper Triassic
 - Rcu
Rcm
Rcb
Chinle formation
Sandstone, conglomeratic sandstone, variegated mudstone, and thin beds of limestone. Upper part, Rcu, is composed of thin-bedded, crossbedded red sandstone at top that grades down into red spheroidal-weathering siltstone; gray and purple limy mudstone, thin beds of limestone and in places thin beds of gray and purplish sandstone and limestone pebble conglomerate occur in the lower half of the upper part. Moss Back member, Rcm, white to brown medium- to coarse-grained sandstone and conglomeratic sandstone; minor green or red mudstone interbeds; quartz, dark-gray quartzite, and chert pebbles are common in conglomeratic facies, especially in Happy Canyon. Monitor Butte member, Rcb, clay sandstone, minor siltstone, limestone pebble conglomerate, and variegated mudstone; rarely thin beds of limestone. Contorted bedding is common. Uranium minerals occur locally at the base of member.
 - Middle(?) Triassic
 - UNCONFORMITY
 - Rm
Moenkopi formation
Brownish-red siltstone, fine- to medium-grained sandstone, and red shaly. Abundant ripple marks and mudcracks. Lower part of the formation has beds of fine- to coarse-grained sandstone impregnated with oil.
 - PRm
Undifferentiated rocks of Permian age and Moenkopi formation of Triassic age.
(shown on cross section only)
- Contact
(Dashed where approximately located; short dashes include gradational, and inferred contact, and indefinite boundaries of surficial deposits)
- Fault, showing dip, and displacement in feet
(Dashed where approximately located; short dashes where inferred. D, down-thrown side; U, upthrown side)
- Direction of dip of crossbedding
- Strike of vertical or near vertical joint
- Structure contours
- Drawn on top of Moenkopi formation; dashed where approximately located; short dashes indicate projection above surface. Contour interval 100 feet. Datum is mean sea level.
- Adit in uraniumiferous rock
- Known occurrence of uraniumiferous rock or uranium minerals



INDEX MAP OF UTAH SHOWING AREA OF THIS REPORT



SECTION ALONG LINE A-A'



SECTION ALONG LINE B-B'