Landslide deposits

Large sandstone blocks mixed with smaller rock fragments, sand, and clay; derived by sliding from adjacent upland in Montezuma Canyon. Landslide deposits on Brushy Basin member not shown.

Well-sorted red silt and very fine sand, largely wind deposited, reworked partly by water; O to 25 feet thick; forms agricultural soil on uplands.

UNCONFORMITY

Gray marine shale, prominent Gryphea zone about 50 feet above base; forms low rounded hills on upland.

Mancos shale

Dakota sandstone

Light-brown and yellowish-brown sandstone with abundant plant fossils; interbedded, lenticular gray carbonaceous claystones and coal; thin conglomeratic sandstone at base locally; 80 to 110 feet thick; crops out at crest of "rim rock" cliff which separates upland from canyons.

UNCONFORMITY

Burro Canyon formation

Light-colored conglomeratic sandstone; interbedded greenish lenticular mudstone; silicified sandstone and limestone near top locally; 110 to 170 feet thick; forms face of "rim rock" cliff which separates upland from canyons.

UNCONFORMITY

Morrison formation

Brushy Basin member, Jmb, variegated mudstone, some sandstone and conglomerate lenses; 340 to 410 feet thick; forms slope above steep-walled inner canyons; generally covered with landslides or colluvium. Salt Wash member, Jms, light-colored lenticular sandstone interbedded with red mudstone; base not exposed; forms series of steep cliffs and narrow benches of inner canyon; massive sandstone lenses near the middle of the member locally contain uranium-vanadium deposits.

Contact

(Dashed where inferred or indefinite)

(Dashed where approximately located; dotted where concealed. Question marks indicate probable fault; U, upthrown side; D, downthrown side)

Approximate strike and dip of beds

(Owing to low dips and lenticular nature of beds, attitudes were determined from preliminary structure contours drawn on the base of the Dakota sandstone; dip in degrees)

Horizontal beds

(Dip less than 1/4°, determined as above)

6700 ----Structure contour

Drawn on base of Dakota sandstone; dashed where approximately located; short dashes indicate projection above land surface. Contour interval 100 feet. Datum mean sea level.

Adit

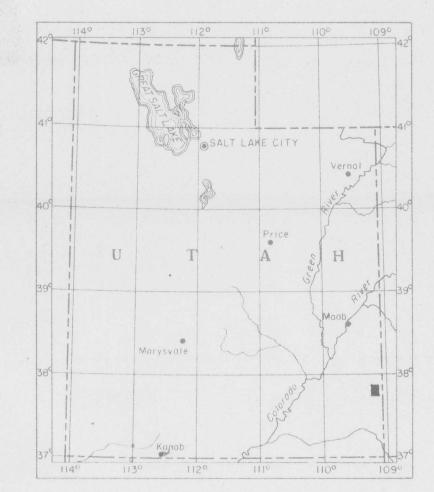
(Uranium-vanadium mine, except where indicated)

Small open cut or prospect

Oil Well

(Uranium-vanadium deposit)

Section corner found in the field



INDEX MAP OF UTAH SHOWING AREA OF THIS REPORT

THIS MAP CONCERNS WORK DONE BY THE U.S. GEOLOGICAL SURVEY ON BEHALF OF THE DIVISION OF RAW MATERIALS OF THE TRACE ELEMENTS U.S. ATOMIC ENERGY COMMISSION DEPARTMENT OF THE INTERIOR MEMORANDUM REPORT 990 GEOLOGICAL SURVEY 109°07′30′′ T. 33 S. T. 34 S. Horsehead Point Mapped by the Geological Survey 1954 SCALE 1:24000 Topography by multiplex methods from aerial photographs taken 1953 1000 0 1000 2000 3000 4000 5000 6000 7000 FEET Geology mapped 1954-55. CUNTOUR INTERVAL 40 FEET APPROXIMATE MEAN DECLINATION 1954 DATUM IS MEAN SEA LEVEL PRELIMINARY GEOLOGIC MAP OF THE VERDURE ISW QUADRANGLE, SAN JUAN COUNTY, UTAH

by

Frank G. Lesure and Fredrick Stugard, Jr.