



EXPLANATION

Uranium ore deposit  
Limits cannot be plotted at map scale: triangle where production totals more than 200,000 pounds U<sub>3</sub>O<sub>8</sub>; circle where production totals more than 20,000 but less than 200,000 pounds U<sub>3</sub>O<sub>8</sub>; dot where production totals less than 20,000 pounds U<sub>3</sub>O<sub>8</sub> (30,000 pounds U<sub>2</sub>O<sub>5</sub> = 10 short tons U<sub>3</sub>O<sub>8</sub> = 8.33 short tons U). Production totals are to April 1967.

Uranium prospect  
Rocks containing 0.01 percent or more U<sub>3</sub>O<sub>8</sub> or a uranium mineral, but no ore is known to have been produced; all prospects are not shown in areas of numerous deposits.

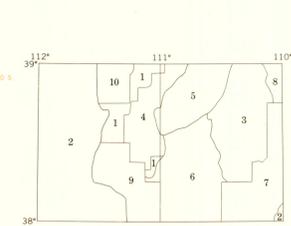
NOTE: Host rocks for uranium deposits are the following stratigraphic units, listed in order of deposits:  
Jms, Salt Wash Sandstone Member of Morrison Formation  
Kcm, Moss Back Member of Chinle Formation  
Kcs, Shinarump Member of Chinle Formation  
Kcb, Monitor Butte Member of Chinle Formation  
Kcu, middle and upper parts of the Chinle Formation in the Capitol Reef area, undifferentiated as to member  
Kct, Temple Mountain Member of Chinle Formation  
Ku, undifferentiated Triassic rocks in collapse structures in the San Rafael Swell  
Tm, Moonhogni Formation  
Tw, Wingate Sandstone  
Jc, Carmel Formation  
Je, Entrada Sandstone  
Jcu, Curtis Formation  
Jmb, Brushy Basin Member of Morrison Formation  
Kcm, Cedar Mountain Formation  
Jfn, Navajo Sandstone  
Tsc, sandstone, siltstone, and conglomerate  
Uranium deposits in Jurassic rocks are in the Salt Wash Sandstone Member of the Morrison Formation unless otherwise indicated by letter symbol; deposits in Triassic rocks are in the Moss Back Member of the Chinle Formation unless otherwise indicated by letter symbol.

Approximate northeastern limit of deposition of the Moss Back Member of the Chinle Formation  
Approximate northeastern limit of deposition of the Monitor Butte Member of the Chinle Formation  
Approximate northeastern limit of deposition of the Shinarump Member of the Chinle Formation

Structure contours  
Drawn on base of Dakota Sandstone, or on base of Tumuck Member of Mancos Shale where Dakota Sandstone is absent. Solid where vertical accuracy within 125 feet; long dashed where accuracy probably between 125 and 250 feet; short dashed where accuracy possibly not within 250 feet. Horizontal lines indicate lowest closed contour in synclinal areas. Contours dropped where structure is unknown or too complex to show at map scale. Contour interval 250 feet.

Contact  
Fault  
Dashed where approximately located, dotted where concealed. Bar and ball on downthrown side  
Anticline  
Syncline  
Folds  
Showing direction of plunge

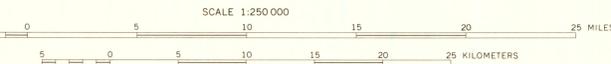
Strike and dip of beds  
Vertical beds  
Horizontal beds  
Collapse structures



INDEX SHOWING SOURCES OF STRUCTURE DATA

- STRUCTURE SOURCES  
Structure contours compiled from the following sources. (See "Geologic sources" for complete references.) Data revised in part by plane table and photogrammetric methods; elevations of several datum surfaces corrected by isopaching to base of Dakota Sandstone.
1. Structure compiled by plane table and photogrammetric methods.
  2. Area where complexity of geology or lack of data prevent structure contouring.
  3. Baker, A. A. and others, 1957, Preliminary map showing geologic structure of parts of Emery, Wayne and Garfield Counties, Utah; U.S. Geol. Survey Oil and Gas Inv. Map OM-197. Datum, base of Wingate Sandstone and base of Chinle Formation.
  4. Gliboff (1929, pl. 30). Datum, base of Chinle Formation.
  5. Hawley, C. C., Robeck, R. C., and Dyer, H. B., 1968, Geology, altered rocks and ore deposits of the San Rafael Swell, Emery County, Utah; U.S. Geol. Survey Bull. 1239 (pl. 2). Datum, base of Chinle Formation.
  6. Hunt, Averitt, and Miller (1953, pl. 5). Datum, base of Ferron Sandstone Member of Mancos Shale.
  7. McKown, P. A., Orkild, P. P., and Hawley, C. C., unpub. maps. Datum, base of Chinle Formation and base of Cutler Formation.
  8. McKnight (1940, pl. 2). Datum, base of Wingate Sandstone.
  9. Smith and others (1963, pl. 1). Datum, base of Wingate Sandstone.
  10. Spieker (1931, pl. 32). Datum, base of Blackhawk Formation.

Base by U.S. Geological Survey, 1958-61



1970 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 15°30' EASTERLY FOR THE CENTER OF THE WEST EDGE TO 15°00' EASTERLY FOR THE CENTER OF THE EAST EDGE  
See sheet 1 for explanation of geologic symbols

Structure and uranium deposits  
GEOLOGY, STRUCTURE, AND URANIUM DEPOSITS OF THE SALINA QUADRANGLE, UTAH

Compiled by  
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1971

Utah (Salina quad.) Geol. 1:250,000  
sheet 2, cap. 2.



M(100)  
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no. 591  
Sheet 2  
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