

EXPLANATION

Uranium ore deposit
Limits cannot be plotted at map scale: triangle where production totals more than 200,000 pounds U_3O_8 ; circle where production totals more than 20,000 but less than 200,000 pounds U_3O_8 ; dot where production totals less than 20,000 pounds U_3O_8 (20,000 pounds $U_3O_8 = 10$ short tons $U_3O_8 = 8.43$ short tons U). Production totals are to April 1967.

Uranium prospect
Rocks containing 0.01 percent or more U_3O_8 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
Tcm, Moss Back Member of Chinle Formation
Tcs, Shinarump Member of Chinle Formation
Tcb, Monitor Butte Member of Chinle Formation
Tcu, middle and upper parts of the Chinle Formation in the Capitol Reef area, undifferentiated as to member
Tct, Temple Mountain Member of Chinle Formation
Tu, undifferentiated Triassic rocks in collapse structures in the San Rafael Swell
Tm, Moenkopi Formation
Tw, Wingate Sandstone
Jc, Carmel Formation
Je, Entrada Sandstone
Jcu, Curtis Formation
Jmb, Brushy Basin Member of Morrison Formation
Kcm, Cedar Mountain Formation
Jtn, 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.

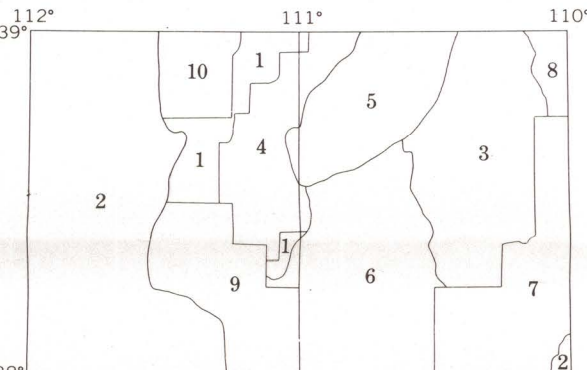
Approximate northeastern limit of deposition of the Moss Back Member of the Chinle Formation

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 Tauxunk 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. Hackures 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 Folds Syncline
Showing direction of plunge
Strike and dip of beds Vertical beds Horizontal beds
Approximate strike, and direction of dip of beds and volcanic flow tops 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. Gilluly (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. McKeown, F. 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.

STRUCTURE AND URANIUM DEPOSITS OF THE SALINA QUADRANGLE, UTAH

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