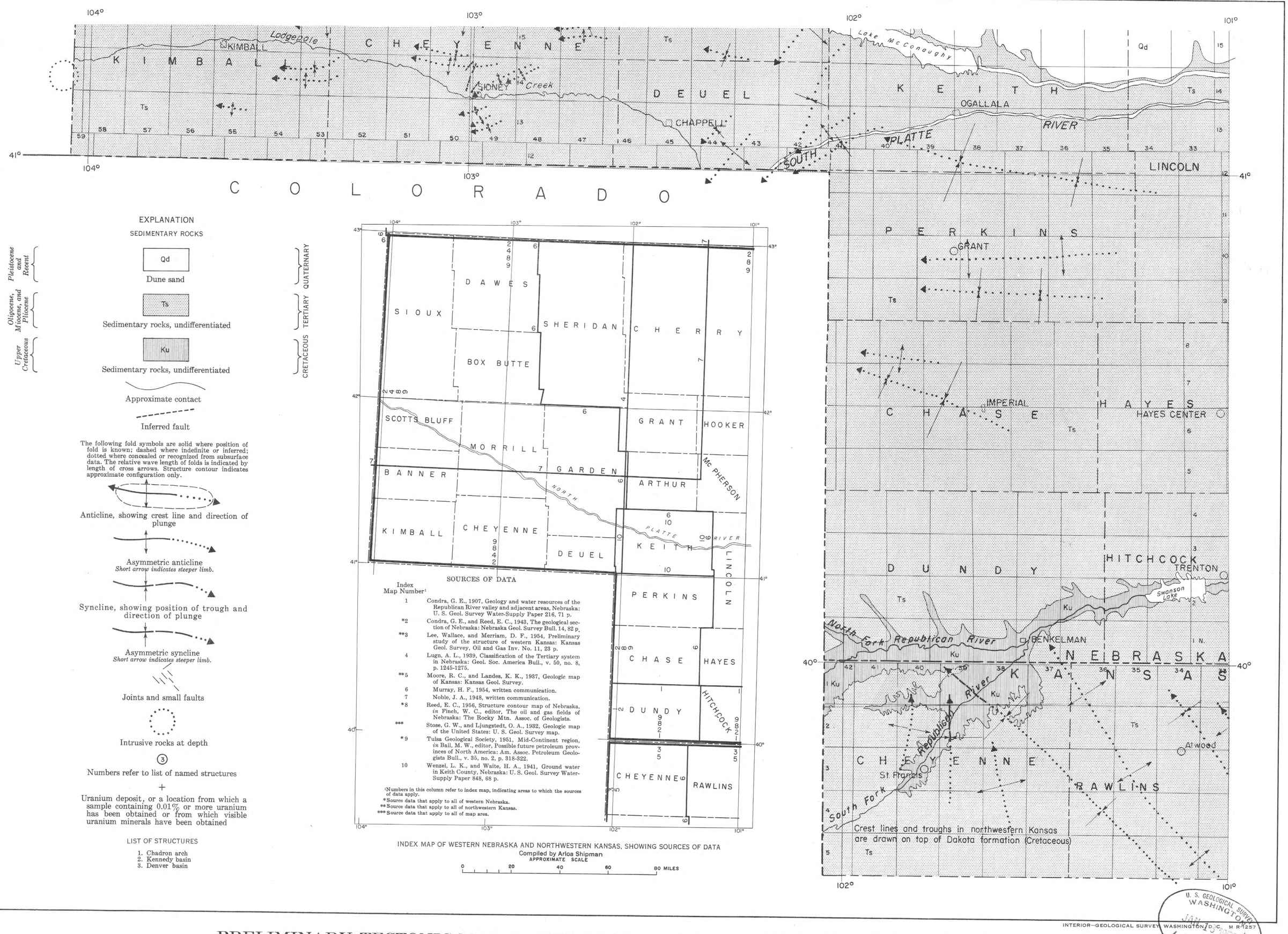
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
U. S. ATOMIC ENERGY COMMISSION

MINERAL INVESTIGATIONS
FIELD STUDIES MAP MF 129
SHEET 2 OF 2



EXPLANATION

SEDIMENTARY ROCKS

Pleistocene and Recent	Qd	Dune sand
Oligocene, Miocene, and Pliocene	Ts	Sedimentary rocks, undifferentiated
Upper Cretaceous	Ku	Sedimentary rocks, undifferentiated

QUATERNARY — TERTIARY — CRETACEOUS

Approximate contact

Inferred fault

The following fold symbols are solid where position of fold is known; dashed where indefinite or inferred; dotted where concealed or recognized from subsurface data. The relative wave length of folds is indicated by length of cross arrows. Structure contour indicates approximate configuration only.

Anticline, showing crest line and direction of plunge

Asymmetric anticline
Short arrow indicates steeper limb.

Syncline, showing position of trough and direction of plunge

Asymmetric syncline
Short arrow indicates steeper limb.

Joints and small faults

Intrusive rocks at depth

③ Numbers refer to list of named structures

\+ Uranium deposit, or a location from which a sample containing 0.01% or more uranium has been obtained or from which visible uranium minerals have been obtained

LIST OF STRUCTURES

1. Chadron arch
2. Kennedy basin
3. Denver basin

SOURCES OF DATA

Index Map Number[1]	
1	Condra, G. E., 1907, Geology and water resources of the Republican River valley and adjacent areas, Nebraska: U. S. Geol. Survey Water-Supply Paper 216, 71 p.
*2	Condra, G. E., and Reed, E. C., 1943, The geological section of Nebraska: Nebraska Geol. Survey Bull. 14, 82 p.
**3	Lee, Wallace, and Merriam, D. F., 1954, Preliminary study of the structure of western Kansas: Kansas Geol. Survey, Oil and Gas Inv. No. 11, 23 p.
4	Lugn, A. L., 1939, Classification of the Tertiary system in Nebraska: Geol. Soc. America Bull., v. 50, no. 8, p. 1245-1275.
**5	Moore, R. C., and Landes, K. K., 1937, Geologic map of Kansas: Kansas Geol. Survey.
6	Murray, H. F., 1954, written communication.
7	Noble, J. A., 1948, written communication.
*8	Reed, E. C., 1956, Structure contour map of Nebraska, *in* Finch, W. C., editor, The oil and gas fields of Nebraska: The Rocky Mtn. Assoc. of Geologists.
***	Stose, G. W., and Ljungstedt, O. A., 1932, Geologic map of the United States: U. S. Geol. Survey map.
*9	Tulsa Geological Society, 1951, Mid-Continent region, *in* Ball, M. W., editor, Possible future petroleum provinces of North America: Am. Assoc. Petroleum Geologists Bull., v. 35, no. 2, p. 318-322.
10	Wenzel, L. K., and Waite, H. A., 1941, Ground water in Keith County, Nebraska: U. S. Geol. Survey Water-Supply Paper 848, 68 p.

[1]Numbers in this column refer to index map, indicating areas to which the sources of data apply.
*Source data that apply to all of western Nebraska.
**Source data that apply to all of northwestern Kansas.
***Source data that apply to all of map area.

INDEX MAP OF WESTERN NEBRASKA AND NORTHWESTERN KANSAS, SHOWING SOURCES OF DATA

Compiled by Arloa Shipman

APPROXIMATE SCALE
0 20 40 60 80 MILES

PRELIMINARY TECTONIC MAP OF WESTERN NEBRASKA AND NORTHWESTERN KANSAS SHOWING THE DISTRIBUTION OF URANIUM DEPOSITS

Compiled by F. W. Osterwald and B. G. Dean

Scale 1:500 000
10 0 10 20 30 miles

1958

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