DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

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

(200)
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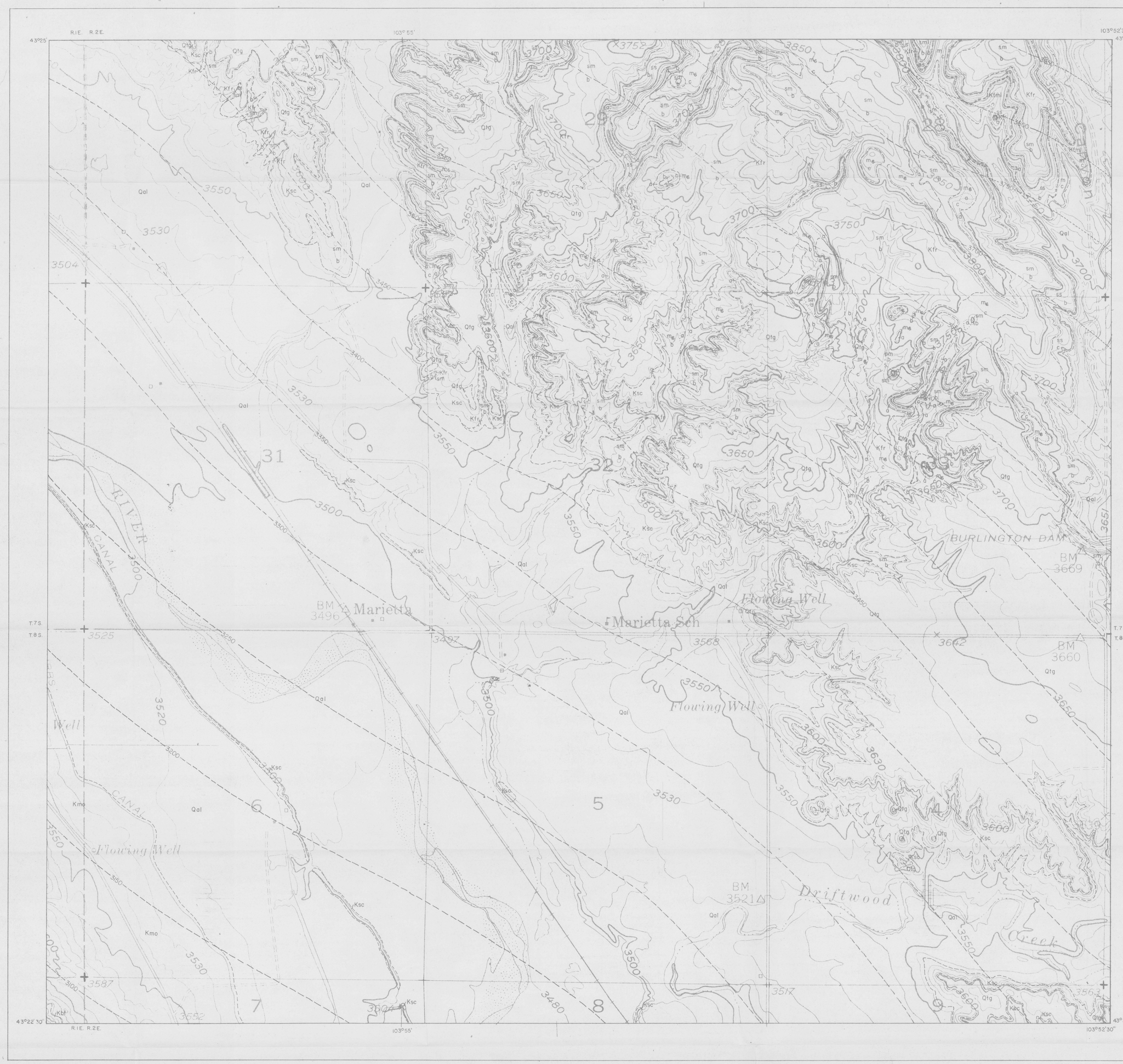
no. 1060

T.E.M.-1060



U.S. GEOLOGICAL SURVEY
DENVER
AUG 16 1983
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PLEASE REPLACE IN POCKET IN BACK OF BOUND VOLUME

EXPLANATION

QUATERNARY

Qal — Alluvium

Qtg — Terrace gravel

CRETACEOUS

Upper Cretaceous

Kbf — Belle Fourche shale

Kmo — Mowry shale

Ksc — Skull Creek shale

Lower Cretaceous

Kfr — Fall River sandstone

Inyan Kara group

Kfml — Fuson formation, Minnewaste limestone, and Lakota sandstone, undifferentiated

Contact between Fall River sandstone and Fuson formation indicated by doubly ticked line. Top of Fall River sandstone indicated by ticked line. Detailed lithology of units within the Inyan Kara formations is as follows: m, mudstone; sm, interbedded sandstone and mudstone; and ss, interbedded sandstone and siltstone. A prominent mudstone is numbered. Uranium deposits occur in Inyan Kara rocks in nearby areas.

Unit No. 6 (m_6) is a variegated mudstone with red and gray predominating; generally 20 feet thick. This unit is labeled m_6 where it is shown on the preliminary geologic map of the adjacent Edgemont NE quadrangle.

a b c
Type of exposure

Small letters denote type of exposure within mapped units. "a" denotes areas of good exposure, "b" areas of intermittent exposure, and "c" areas of no exposure. Type of exposure was mapped only in Inyan Kara formations

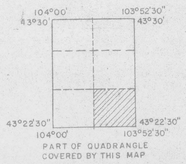
Contact
Dashed where approximately located

Indefinite or inferred contact

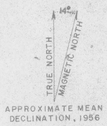
Limit of exposure

3550
Structure contours

Drawn on base of Fall River sandstone. Dashed where approximately located, dotted where projected above the surface. Contour interval is 50 feet. Datum is mean sea level



PART OF QUADRANGLE COVERED BY THIS MAP



APPROXIMATE MEAN DECLINATION, 1956

Topography by U.S. Geological Survey by multiplex methods from aerial photographs

Geology mapped in 1955 and 1956

PRELIMINARY GEOLOGIC MAP OF THE SOUTHEAST PART OF THE BURDOCK QUADRANGLE, FALL RIVER COUNTY, SOUTH DAKOTA

By

R.W. Schnabel and L.J. Charlesworth Jr.

Scale 1:7200

1000 0 1000 2000 3000 Feet

Contour interval 10 feet
Datum is mean sea level

1957