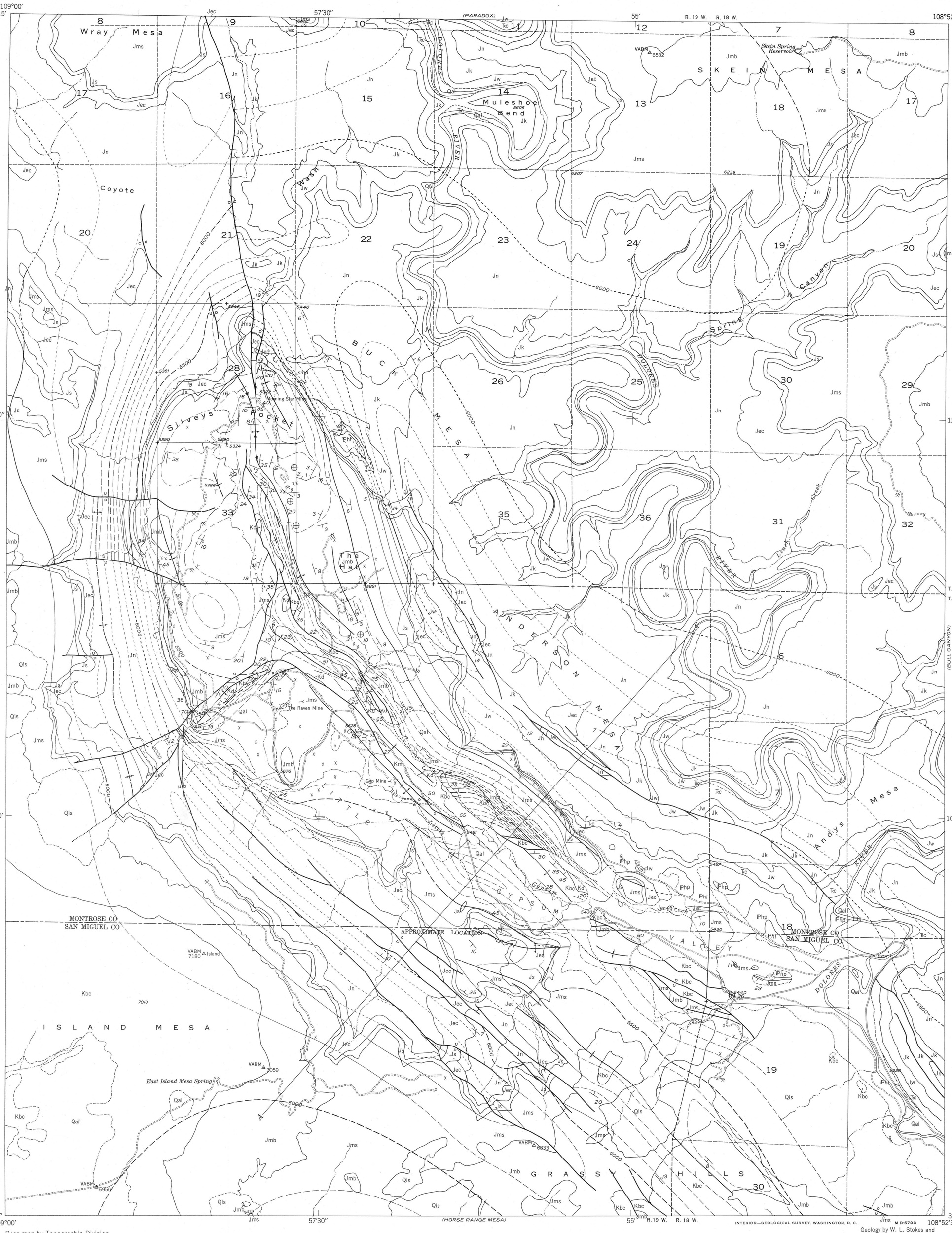
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
W. E. WRATHER, DIRECTOR

PREPARED IN COOPERATION WITH THE
U. S. ATOMIC ENERGY COMMISSION
COLORADO GEOLOGICAL SURVEY BOARD
AND COLORADO METAL MINING FUND BOARD

MINERAL INVESTIGATIONS
FIELD STUDIES MAP MF 25



Base map by Topographic Division
U. S. Geological Survey, 1950

Geology by W. L. Stokes and
D. A. Phoenix, 1945; revised in
part by F. W. Cater, Jr., 1951.

EXPLANATION

QUATERNARY

Pleistocene and Recent

Qal — Alluvium
Light-red wind-deposited sand and silt on benches and mesa tops; Recent valley fill and stream deposits.

Qls — Landslide deposits

UNCONFORMITY

CRETACEOUS

Upper Cretaceous

Km — Mancos shale
Dark-gray soft fissile rock, sparse sandstone and carbonaceous shale.

Lower Cretaceous

Kd — Dakota sandstone
Gray, yellow, and buff flaggy sandstone with interbedded carbonaceous shale and impure coal.

UNCONFORMITY

Kbc — Burro Canyon formation
White, gray, and red sandstone and conglomerate with interbedded green and purplish shale.

JURASSIC

Upper Jurassic

Jmb / Jms — Morrison formation
Variegated shale and white and gray sandstone and conglomerate (Jmb); white and buff sandstone with minor amounts of mudstone (Jms).

San Rafael group

Js — Summerville formation
Predominantly red and brown thin-bedded mudstone; thin beds of chert and limestone.

Middle and Upper Jurassic

Jec — Entrada sandstone and Carmel formation undivided
Orange, buff, and white fine-grained sandstone at the top; red sandstone and mudstone at the base.

UNCONFORMITY

JURASSIC(?)

Glen Canyon group

Jn — Navajo sandstone
Gray to buff crossbedded fine-grained quartz sandstone.

Jk — Kayenta formation
Red, buff, gray, and lavender shale, siltstone, and fine- to coarse-grained sandstone.

Jw — Wingate sandstone
Fine-grained reddish-brown sandstone, thick bedded, massive, and crossbedded.

TRIASSIC

Upper Triassic

Ꞧc — Chinle formation
Red to orange-red siltstone with interbedded red fine-grained sandstone, shale, and conglomerate.

UNCONFORMITY

PENNSYLVANIAN

Phl / Php — Hermosa formation
Largely salt and gypsum (Php); limestone and thin beds of shale (Phl).

Contact
Dashed where approximately located.

Indefinite contact
Includes inferred contacts and indefinite boundaries of surficial deposits.

Fault
Dashed where approximately located; dotted where concealed. u, upthrown side; d, downthrown side.

Strike and dip of beds

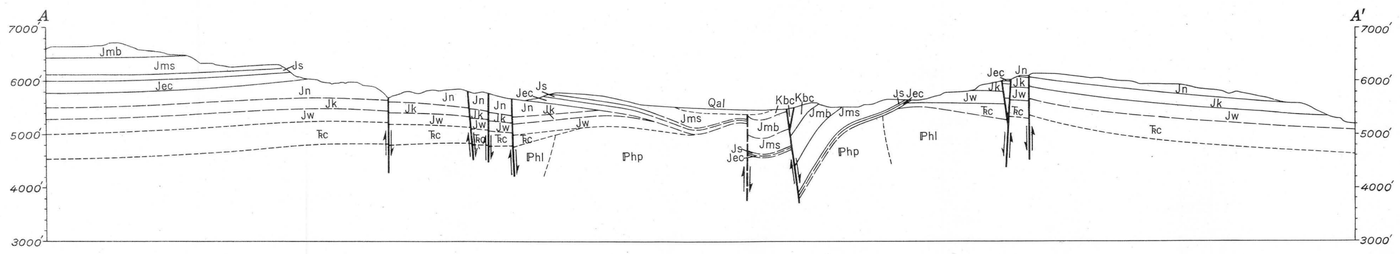
Horizontal beds

Syncline
Showing trace of axial plane and plunge of axis.

Anticline
Showing trace of axial plane and plunge of axis.

Structure contour
Drawn on top of Entrada sandstone; dashed where inferred or approximately located; short dashes indicate projection above surface. Contour interval 100 feet. Datum is mean sea level.

Note: Some small areas of outcrop are not marked. Contacts are not closed when the contact touches a river.



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PRELIMINARY GEOLOGIC MAP
OF THE
ANDERSON MESA QUADRANGLE, COLORADO

By
Fred W. Cater, Jr.

Scale 1:24 000

1 ½ 0 1 Mile

1955

~~Colorado (Anderson Mesa quad.). Geol. 1:24,000. 1955.~~
~~Cop. 1.~~

APPROXIMATE MEAN DECLINATION, 1955

MINERAL INVESTIGATIONS
FIELD STUDIES MAP MF 25

Since the preparation of this map the age designation of the Glen Canyon group has been changed in U. S. Geological Survey usage to Triassic and Jurassic; the age designation of the Wingate sandstone has been changed to Triassic; and the age designation of the Navajo sandstone has been changed to Jurassic.

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