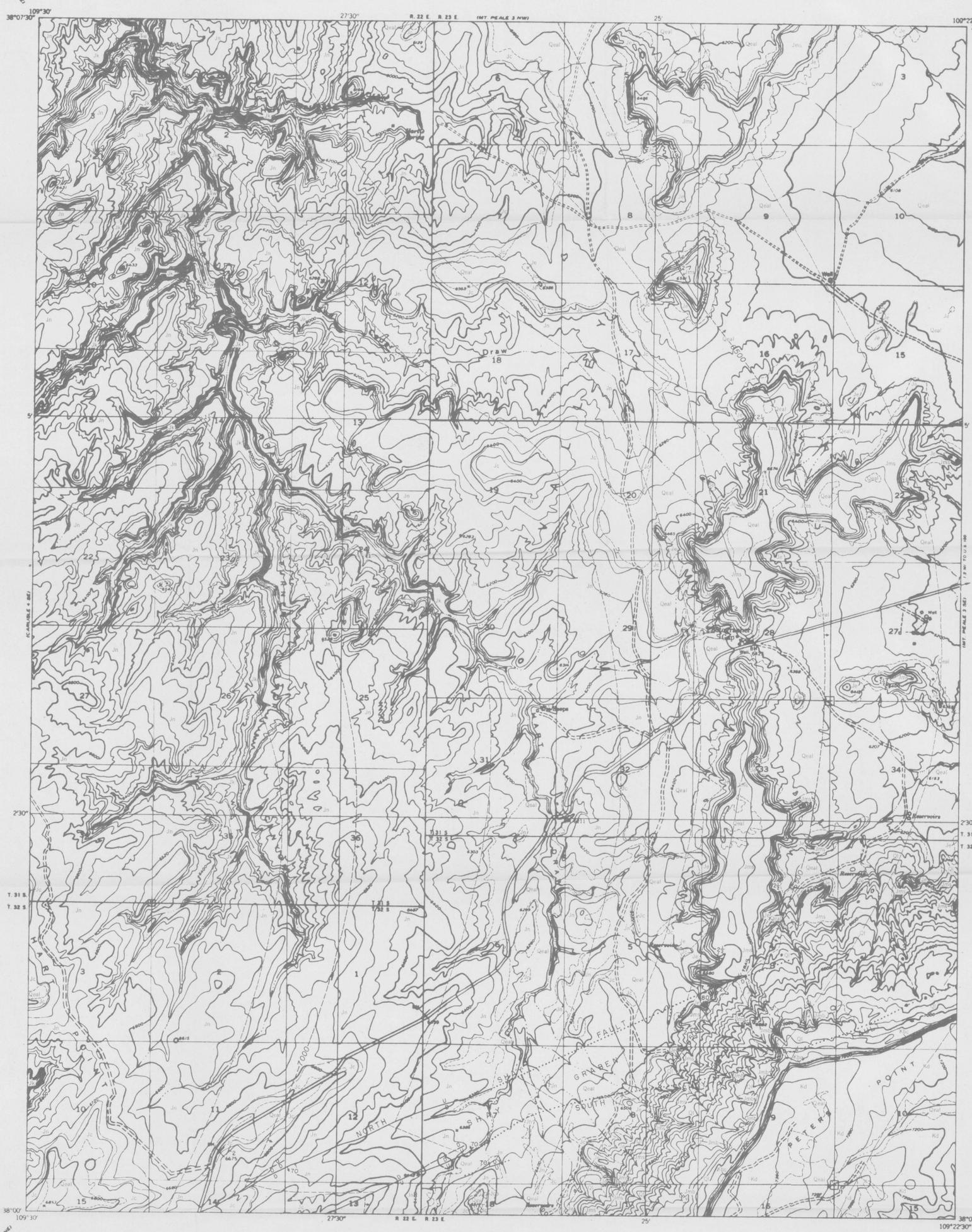


(200)  
767mm



**EXPLANATION**

**Qeal**  
Eolian and alluvial sand and silt  
Light-brown, red, and grayish-yellow wind-deposited sand and silt in thin sheetlike deposits covering tops of mesas and plateaus, more rarely in small inactive dunes; eolian material generally reworked in part by water and grades into stream-deposited sand and silt in valley bottoms. Thin surficial deposits on Navajo sandstone forming plateau in western part of quadrangle not shown.

**Ql**  
Landslide deposits  
Irregular hummocky deposits and thin patchy sheets of mass-moved material largely made up of small to large blocks of sandstone derived from the Burro Canyon formation and the Dakota sandstone and of mudstone from the Brushy Basin member of the Morrison formation. Includes talus below cliffs near heads of landslides.

**Qcy**  
Younger gravel  
Alluvial gravels composed chiefly of rounded cobbles of sedimentary rocks of Jurassic and Cretaceous age, and of igneous rocks of Tertiary age derived from the Abajo Mountains. Found in and bordering modern stream valleys.

**UNCONFORMITY**

**Ka**  
Dakota sandstone  
Light-brown and yellowish-brown sandstone and conglomerate with common plant impressions and with interbedded gray to black carbonaceous sandstone; basal conglomerate includes cobbles and boulders from Burro Canyon formation.

**UNCONFORMITY**

**Kbc**  
Burro Canyon formation  
Grayish-brown and light-brown sandstone and conglomerate commonly silicified in part to a gray quartzite with thin beds of dense gray limestone and interbedded green and purplish mudstone.

**Jmb**  
**Jms**  
Morrison formation  
Chiefly variegated mudstone and sandstone. The Brushy Basin member, Jmb, the upper part of the Morrison formation is composed chiefly of grayish and reddish bentonitic mudstone with dark-brown conglomeratic sandstone near the base. The Salt Wash member, Jms, the lower part of the Morrison formation, is composed of light-brown lenticular sandstone interbedded with reddish mudstone and contains thin limestone or chert beds at the base; uranium-uranadium deposits occur chiefly in the upper part of the Salt Wash member.

**Je**  
Summerville formation  
and Entrada sandstone undifferentiated  
Summerville formation at the top; thin-bedded red mudstone and silty sandstone, about 1 to 15 feet thick; in extreme southeastern corner of quadrangle contains persistent sandstone bed that thickens and merges with Entrada sandstone northward from near Photographer Gap. Entrada sandstone at the base; grayish-yellow, red, and brown crossbedded fine-grained sandstone.

**Jc**  
Carmel formation  
Red siltstone and fine-grained sandstone commonly with basal layer of dark yellow-brown sandstone of reworked Navajo with scattered gray chert fragments; contact with overlying Entrada sandstone gradational and in places indefinite. May correlate wholly or in part with lower part of Entrada sandstone of east-central and southeasternmost Utah and Arizona.

**UNCONFORMITY**

**Jn**  
Navajo sandstone  
White and grayish-yellow crossbedded fine-grained sandstone with a few thin lenses of gray sandy limestone.

**Jk**  
Kayenta formation  
Red and purplish-red fine- to coarse-grained crossbedded sandstone irregularly interbedded with red siltstone. Upper and lower contacts gradational and intertonguing; commonly indefinite and arbitrary.

**Jv**  
Wingate sandstone  
Grayish-orange to reddish-brown fine-grained crossbedded sandstone.

**CONTACT**  
(Dashed where approximately located; short dashes where inferred or indefinite boundaries of surficial deposits)

**Fault, showing dip**  
(Dashed where approximately located; dotted where concealed; U, upthrown side; D, downthrown side)

**Strike and dip of beds**  
+ 6500 -  
Structure contours

Drawn on base of Morrison formation; dashed where approximately located; short dashes indicate projection above surface. Arrow indicates direction of dip. Contour interval 100 feet. Datum is mean sea level.

Adit

upper Pleistocene and Recent

Upper Cretaceous

Lower Cretaceous

Upper Jurassic

Middle and Upper Jurassic

Glen Canyon group

Upper Triassic

QUATERNARY

CRETACEOUS

JURASSIC

JURASSIC AND JURASSIC(?)

JURASSIC(?)

TRIASSIC

Base map by Topographic Division  
U.S. Geological Survey, 1954

Geology by G.W. Weir and C.L. Dodson,  
assisted by L.F. Emmett and I.G. Hendrickson, 1955

PRELIMINARY GEOLOGIC MAP OF THE MT. PEALE 3 SW QUADRANGLE, SAN JUAN COUNTY, UTAH

BY  
GORDON W. WEIR AND CHESTER L. DODSON

