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T677m
no. 748

PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

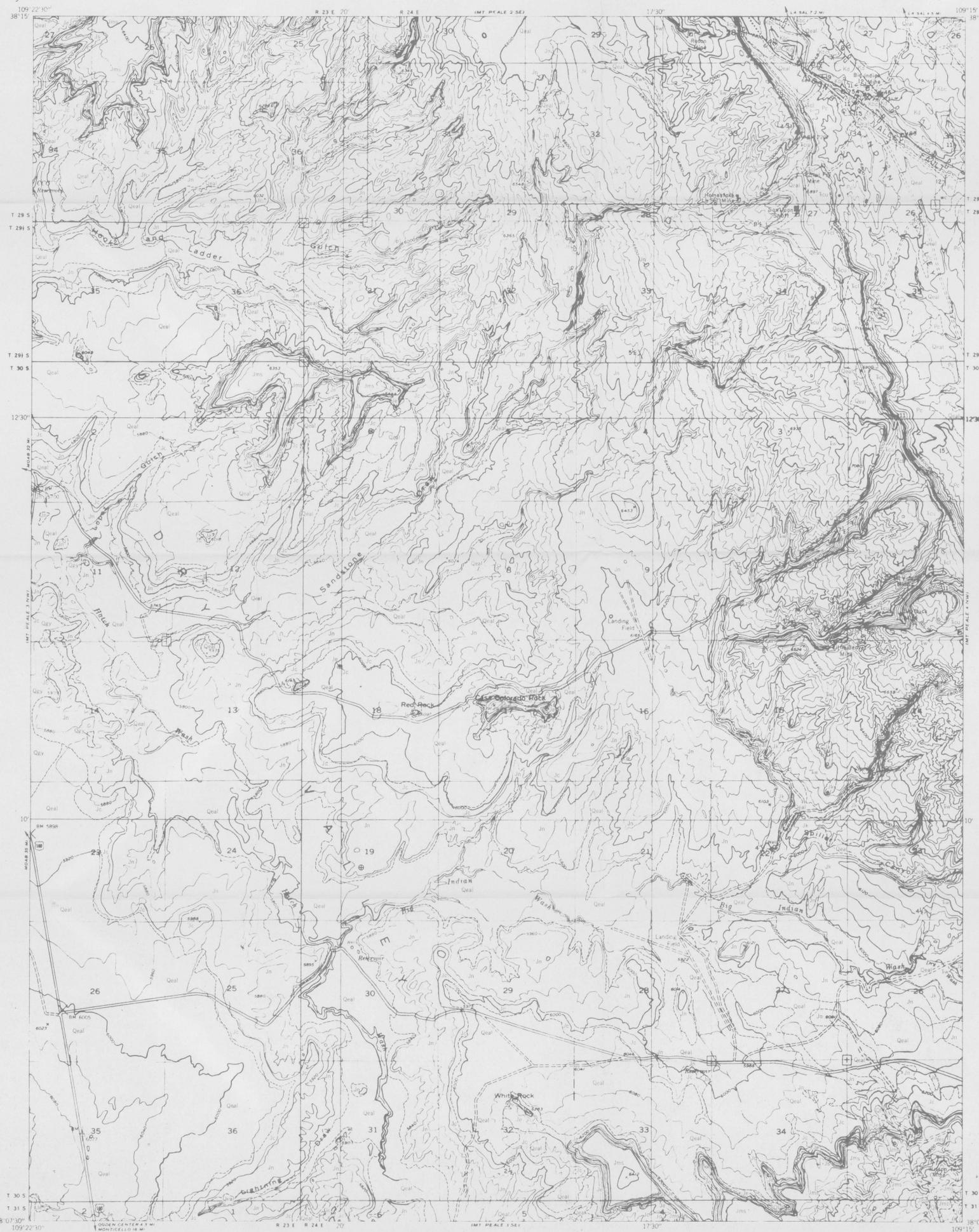
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

THIS MAP CONCERNS WORK DONE BY THE U.S.
GEOLOGICAL SURVEY ON BEHALF OF THE DIVISION OF
RAW MATERIALS OF THE U.S. ATOMIC ENERGY COMMISSION

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EXPLANATION

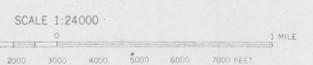


Base map by Topographic Division
U.S. Geological Survey, 1954

Geology by G.W. Weir and C.L. Dodson,
assisted by V.C. Kennedy, 1954-55

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

BY
GORDON W. WEIR AND CHESTER L. DODSON



SCALE 1:24,000
CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL



- 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.
 - 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.
 - Qgy**
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 mudstone; basal conglomerate includes cobbles and boulders from Burro Canyon formation.
 - UNCONFORMITY**
 - Kbc**
Burro Canyon formation
Grayish-brown and light-brown sandstone and conglomerate commonly siltified 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-vanadium deposits occur chiefly in the upper part of the Salt Wash member.
 - Ja**
Summerville formation
Reddish thin-bedded mudstone with persistent zone of masses of red and white chert near top of formation.
 - Je**
Entrada sandstone
Grayish-yellow, red, and brown crossbedded fine-grained sandstone.
 - Jc**
Carmel formation
Red siltstone and fine-grained sandstone, in places 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.
 - Rv**
Wingate sandstone
Grayish-orange to reddish-brown fine-grained crossbedded sandstone.
 - Rcu**
Rel
Chinle formation
Upper part, Rcu, red, light-brown, and gray sandstone and conglomerate; red, purplish-red, and greenish-gray mudstone. Indefinite basal zone, Rel, composed chiefly of light-brown and gray sandstone and conglomerate and grayish-green mudstone, probably equivalent to Moss Back member of Chinle of southeastern Utah, contains uranium deposits.
 - UNCONFORMITY**
 - Pc**
Cutler formation
Grayish-yellow, red, and purple arkosic sandstone and conglomerate; red and purplish-gray mudstone with thin brown and reddish unfossiliferous silty limestone and chert beds.
-
- Contact
 - Strike and dip of beds
 - Horizontal beds
 - Fault, showing dip
 - Mine
 - Small prospect
 - High angle fault
 - Adit
 - Vertical shaft
- (Dashed where approximately located; short dashes where inferred or indefinite boundaries of surficial deposits)
- (Dashed where approximately located; dotted where concealed; U, upthrown side; D, downthrown side)
- (Dashed where approximately located; dotted where concealed; U, upthrown side; D, downthrown side)

QUATERNARY

CRETACEOUS

JURASSIC

JURASSIC AND JURASSIC(?)

JURASSIC(?)

TRIASSIC

PERMIAN