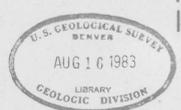


(200)  
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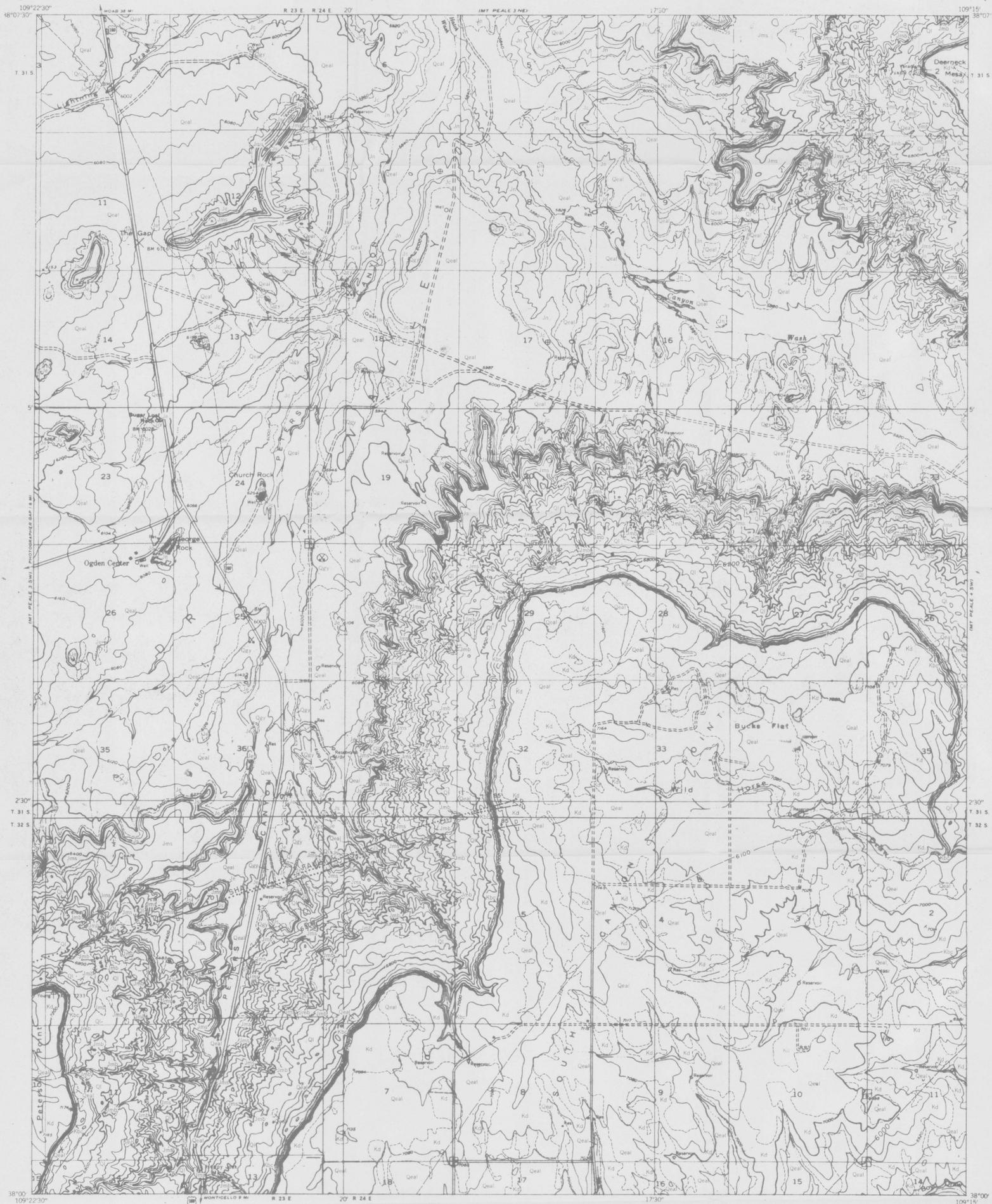
PLEASE REPLACE IN POCKET  
IN BACK OF BOUND VOLUME



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

TRACE ELEMENTS  
MEMORANDUM REPORT 569



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.
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	
Qro	Older rubble Irregular heaps and patches of mass-moved blocks composed chiefly of resistant quartzite and sandstone of Cretaceous age and chert of Jurassic age.
UNCONFORMITY	
Kd	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 silicified in part to a gray quartzite with thin beds of dense gray limestone and interbedded green and purplish mudstone.
Jab	Morrison formation Chiefly variegated mudstone and sandstone. The Brushy Basin member, Jab, 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.
Js	Summerville formation Reddish thin-bedded mudstone with persistent zones of masses of red and white chert near top of formation; contains persistent grayish-yellow sandstone bed.
Je	Entrada sandstone Grayish-yellow, red, and brown crossbedded fine-grained sandstone.
Jc	Carmel formation Bed 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 northern Arizona.
UNCONFORMITY	
Jn	Navajo sandstone White and grayish-yellow crossbedded fine-grained sandstone with a few thin lenses of gray sandy limestone.
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	
Horizontal beds	
Structure contours	
6000	
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.	
Mine	X
Small prospect	x
Adit	—
Gravel pit	X

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



CONTOUR INTERVAL 40 FEET  
DATUM IS MEAN SEA LEVEL

Geology by G.W. Weir, C.L. Dodson,  
and V.C. Kennedy, assisted by L.F.  
Emmett and J.R. Shappirio, 1954-55

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

BY  
GORDON W. WEIR AND CHESTER L. DODSON



INDEX MAP OF UTAH SHOWING AREA OF THIS REPORT