UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the
Atomic Energy Commission

TRACE ELEMENTS MEMORANDUM REPORT 699

U.S. GEOLOGICAL SURVEY
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Photographed from blue line compilation sheet of U.S. Geological Survey topographic Horse Range Mesa quadrangle base map

PRELIMINARY
GEOLOGIC MAP AND SECTION OF THE HORSE RANGE MESA QUADRANGLE, COLORADO

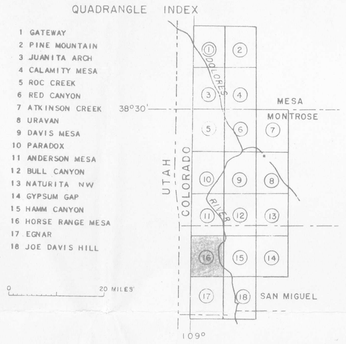
1 1/2 0 1 MILE

Because of distortion in reproduction and printing processes, scale of map and sections are only approximate

This map is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards and nomenclature

Geology by W.L. Stokes and D.A. Phoenix 1945
Revised by F.M. Cater 1949

QUADRANGLE INDEX



EXPLANATION

Age	Unit	Symbol	Group
PLEISTOCENE AND RECENT	ALLUVIUM	QAL	QUATERNARY
	TERRACE GRAVEL	QG	
	LANDSLIDE MATERIAL	QLS	
	UNCONFORMITY		
UPPER CRETACEOUS	DAKOTA SANDSTONE	KD	CRETACEOUS
	UNCONFORMITY		
LOWER CRETACEOUS	BURRO CANYON FORMATION	KBC	
UPPER JURASSIC	MORRISON FORMATION	JMB, JMS	JURASSIC
UPPER JURASSIC	SUMMERVILLE FORMATION	JS	
MIDDLE AND UPPER JURASSIC (SAN RAFAEL GROUP)	ENTRADA SANDSTONE AND CARMEL FORMATION UNDIVIDED	JEC	
	UNCONFORMITY		
GLEN CANYON GROUP	NAVAJO SANDSTONE	JN	JURASSIC(?)
	KAYENTA FORMATION	JK	
	WINGATE SANDSTONE	JW	
UPPER TRIASSIC	CHINLE FORMATION	TRC	TRIASSIC

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

VERTICAL BEDS

ANTICLINE
(SHOWING TRACE OF AXIAL PLANE AND PLUNGE OF AXIS)

6000

STRUCTURE CONTOUR
(DRAWN ON TOP OF ENTRADA SANDSTONE; DASHED WHERE INFERRED OR APPROXIMATELY LOCATED. 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. RIVERS NOT SHOWN