UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

San Rafael River mines
Cactus Rat mine
Squaw Park mine
Blackstone mine
SAN RAFAEL
THOMPSON
GATEWAY
Temple Mountain mines
Shinarump mines
Elva M. mine
Bowknot mines
Calamity group
Outlaw group
MOAB
GREEN RIVER
Yellow Circle mine
PARADOX
URAVAN
Delta mine
Carpenter Ridge mines
Club group
"C" group
Cu
Lockhart Canyon mines
Brown's Hole mine
Unnamed group of mines
Long Park group
Oyler mine
Cu
Jo Dandy group
Mi Vida mine
Bull Canyon group
Oak Creek mine
Congress group
Waterfall group
GYPSUM VALLEY
BULL CANYON
Unnamed group of mines
Happy Jack mine
Lower group
HENRY MOUNTAINS
Cu
Horseshoe group
Legin group
SLICK ROCK
Trachyte Creek mines
Happy Jack mine
Cu
MONTICELLO
Posey mine
Cu
Cottonwood mine
Blanding mines
WHITE CANYON
CORTEZ
Skyline mine
UTAH
ARIZONA
COLORADO
NEW MEXICO
Monument No.1 mine
Monument No. 2 mine
MONUMENT VALLEY
SHIP ROCK
N
Rock Spring mine
Mining district boundary
CHILCHINBITO
Lukachukai mines
Enos Johnson mines
10 0 40 Miles
CHUSKA

428754 O - 57 (In pocket)

EXPLANATION

COMPOSITION

OXIDATION STATE	Vanadium-uranium deposits: Group 1 V:U= 3:1 to 15:1	Vanadium-uranium deposits: Group 2 V:U= 3:1 to 1:2	Nonvanadiferous uranium deposits: Group 3
High valence (V^{+5}, U^{+6}), oxidized	Type 1	Type 1	Type 1
Middle valence (V^{+4}, U^{+4} to U^{+6}), partly oxidized	Type 2	Type 2	
Low valence (V^{+3}, U^{+4}), unoxidized	Type 3	Type 3	Type 2

Increasing oxidation

Increasing vanadium

○ Deposits chiefly in the Salt Wash member of the Morrison formation of Jurassic age

△ Deposits in Triassic rocks (chiefly Shinarump member and other sandstones of the lower part of the Chinle formation)

Cu Copper, indicated where important accessory element

MINERALOGIC-CLASSIFICATION MAP OF URANIUM-VANADIUM DEPOSITS OF THE COLORADO PLATEAU