

LIST OF MAP UNITS

The complete description of map units and references are in the accompanying Authors' Notes booklet

SURFICIAL DEPOSITS

HUMAN MADE DEPOSITS

af Artificial fill and disturbed areas (latest Holocene)

ALLUVIAL DEPOSITS

Qa<sub>1</sub> Alluvium one of streams (Holocene)  
Qa<sub>2</sub> Alluvium two of streams (late Pleistocene)  
Qa<sub>3</sub> Alluvium three of streams (late to middle Pleistocene)  
Qa<sub>4</sub> Alluvium four of streams (early middle Pleistocene)  
Qa Alluvial deposits, undifferentiated (Holocene)

MUDFLOW-DOMINATED ALLUVIAL AND ALLUVIAL-FAN DEPOSITS

Qaf Alluvial and alluvial-fan deposits, undifferentiated valley fill (Holocene)  
Qafo Old alluvial and alluvial-fan deposits, undifferentiated valley fill (late to middle Pleistocene)  
Qf Alluvial-fan deposits (Holocene)  
Qfo Old alluvial-fan deposits (late to middle Pleistocene)

ALLUVIAL/COLLUVIAL AND MASS-WASTING DEPOSITS

Qc Colluvial deposits (Holocene)  
Qco Old colluvial deposits (late to middle Pleistocene)  
Qac Alluvial and colluvial deposits, undifferentiated (Holocene)  
Qaco Old alluvial and colluvial deposits, undifferentiated (late to middle Pleistocene)  
Qls Landslide deposits (Holocene to late Pleistocene)

BEDROCK UNITS

Tgp Green River Formation (Eocene)  
Tgga Parachute Creek Member  
Tw Garden Gulch and Anvil Points Members (undivided)  
TKoc Wasatch Formation (Upper Paleocene to Eocene)  
TKoc Ohio Creek Conglomerate (Upper Cretaceous to Lower Paleocene)  
Kwu Williams Fork Formation (Upper Cretaceous)  
Kwlc Williams Fork Formation, upper unit  
Kwl Williams Fork Formation, lower unit  
Kw Williams Fork Formation, undivided  
Kl Iles Formation (Upper Cretaceous)  
Kit Trout Creek Sandstone Member  
Kmu Mancos Shale (Upper Cretaceous)  
Kmu Mancos Shale, upper unit  
Kml Loyd Sandstone Member (point locations where Kml is exposed)  
Kmlm Morapos Sandstone Member  
Kmp Prairie Canyon Member  
Kmm Meeker Sandstone Member (Line indicates trace of sandstone where identified)  
Kms Smoky Hill Member  
Kmf Frontier Member (sandstone facies)  
Kmsl Frontier Member (shale facies)  
Kmm Mowry Shale Member  
Kmlm Frontier Member (shale facies) and Mowry Member, undivided  
Kd Dakota Sandstone (Lower Cretaceous)  
Jm Morrison Formation (Upper Jurassic)  
Jleg Entrada Sandstone and Glen Canyon Group (Jurassic and Triassic)  
Tc Chinle Formation (Upper Triassic)  
TfPm Moenkopi Formation and undivided Permian rocks (Lower Triassic - Permian)  
Pw Weber Sandstone (Lower Permian)  
PPm Maroon Formation (Lower Permian - Pennsylvanian)

Fairfield Coal Group Clinker Zone  
Contact—Approximately located  
Fault—Dashed where approximately located; dotted where concealed; U on upthrown side, D on downthrown side  
Reverse fault—Approximately located, teeth shown on overthrust block side of fault  
Monocline—Approximately located  
Anticline  
Landslide scarp—Hachure in slope direction  
Direction of landslide movement  
Strike and dip of inclined bedding—Showing direction and angle of dip  
Strike and dip of overturned bedding—Showing direction and angle of dip  
Strike and dip of vertical bedding  
Dimension stone quarry  
Fossil pollen collection site  
Spring  
Alignment of cross section



Mapped, edited, and published by the Geological Survey  
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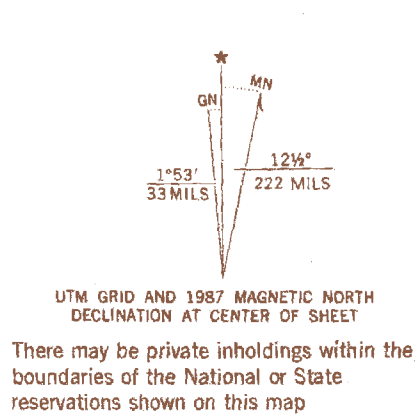
Topography by photogrammetric methods from aerial  
photographs taken 1962 Field checked 1966

Polyconic projection, 1927 North American Datum  
10,000-foot grid based on Colorado coordinate system

North zone  
1000-meter Universal Transverse Mercator grid ticks,  
zone 13, shown in blue

Fine red dashed lines indicate selected fence lines  
Certain land lines are omitted because of insufficient data

To place on the predicted North American Datum 1983  
move the projection lines 6 meters north and  
55 meters east as shown by dashed corner ticks



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1	2	3
4	5	6
7	8	

ADJOINING T.S. QUADRANGLES

Geology mapped in 2011

1 Buckskin Point  
2 Meeker  
3 Rattlesnake Mesa  
4 Sagar Mountain  
5 Vetch Gulch  
6 No Name Ridge  
7 Thirtymile Creek  
8 Red Elephant Point