



CORRELATION OF MAP UNITS			
Qa	Qs	}	QUATERNARY
QTs	QTb		QUATERNARY AND TERTIARY
Tsl	Tw	}	QUATERNARY OR TERTIARY
Jl	Jt		TERTIARY
Tr	Tr	}	JURASSIC
Tr	Tr		TRIASSIC
Ppr	Ppm	}	PERMIAN
PPw	PPw		PERMIAN AND PENNSYLVANIAN
Mc	Mc	}	MISSISSIPPIAN
Mm	Mm		

  

DESCRIPTION OF MAP UNITS	
Qa	ALLUVIUM (QUATERNARY) - Unconsolidated sedimentary deposits along stream valleys; may include colluvium in Fossil Canyon quadrangle and hillwash and alluvial fans in Dry Valley quadrangle
* Qs	SURFICIAL DEPOSITS (QUATERNARY) - Includes colluvium, older alluvium, hillwash, talus, alluvial fan, landslide, mudflow, and boulder deposits
QTs	SEDIMENTARY DEPOSITS (QUATERNARY AND TERTIARY) - Undivided surficial deposits and Salt Lake Formation
* QTb	BASALT (PLEISTOCENE OR PLOCENE) - Olivine and augite-olivine basalt
* Tsl	SALT LAKE FORMATION (PLIOCENE AND MIOCENE) - Limestone, sandstone, and chert conglomerate and rhyolitic tuff
* Tw	WASATCH FORMATION (LOWER EOCENE) - Red conglomerate and sandstone
* Jl	TWIN CREEK LIMESTONE (MIDDLE JURASSIC) - Limestone, siltstone, and sandstone
* Tr	THAYNES LIMESTONE (LOWER TRIASSIC) - Sandstone, limestone, siltstone, and shale. As mapped, may include the Lanes Tongue of the Ankerite Formation
Tr	DINWOODY FORMATION (LOWER TRIASSIC) - Siltstone, shale, and limestone. As mapped, may include tongue of the Woodside Shale. Approximately 1,800 to 2,600 ft thick
Ppr	PHOSPHORIA FORMATION (PERMIAN) - Includes: Rex Chert Member (Lower Permian) - Chert. As mapped, may include cherty shale member of the Phosphoria Formation and lentils of the Franson Member of the Park City Formation. Approximately 200 to 300 ft thick
Ppm	Meade Peak Phosphatic Shale Member (Lower Permian) - Phosphorite and mudstone. Approximately 100 to 200 ft thick
PPw	WELLS FORMATION (PERMIAN AND PENNSYLVANIAN) - Sandstone and limestone. As mapped, may include the Grandeur Tongue of the Park City Formation. Approximately 1,900 to 2,200 ft thick
Mc	CHESTERFIELD RANGE GROUP (UPPER AND LOWER MISSISSIPPIAN) - Limestone, sandstone, and siltstone. Approximately 1,000 ft thick
* Mm	MADISON LIMESTONE (UPPER AND LOWER MISSISSIPPIAN) - Limestone

  

-----	CONTACT - Dashed where approximately located, gradational, indefinite or inferred; dotted where concealed; queried where doubtful
-----	FAULT - Dashed where approximately located or inferred; dotted where concealed; queried where doubtful. U, upthrown side; D, downthrown side; arrows show relative horizontal movement
-----	THRUST FAULT - Sawtooth on upper plate. Dashed where approximately located or inferred; dotted where concealed; queried where doubtful
-----	ANTICLINE - Showing crestline. Dashed where approximately located or inferred; dotted where concealed; queried where doubtful
-----	SYNCLINE - Showing troughline. Dashed where approximately located or inferred; dotted where concealed; queried where doubtful
-----	OVERTURNED ANTICLINE - Showing direction of dip of limbs. Dashed where approximately located or inferred; dotted where concealed; queried where doubtful
-----	OVERTURNED SYNCLINE - Showing direction of dip of limbs. Dashed where approximately located or inferred; dotted where concealed; queried where doubtful
-----	STRIKE AND DIP OF BEDS - Inclined; overturned; vertical; horizontal
○	PHOSPHATE DRILL HOLE } For computing resource tonnages
-----	PHOSPHATE TRENCH } As of September 1979
-----	PHOSPHATE MINE PIT BOUNDARY

  

The geology shown includes: 1) the trace of the top and bottom contacts of the Phosphoria Formation and where data are available the top and bottom contacts of the Meade Peak Phosphatic Shale Member of the Phosphoria Formation; 2) appropriate structural data required for construction of structure contours, overburden isopachs, and resource blocks; and 3) other structural data necessary for understanding the regional geologic picture.

  

-----	FAULT SEPARATION - No calculated resource
-----	FAULT OVERLAP - Twice calculated resources if covered by 1500 ft. or less of overburden
-----	FAULT TRACE AT DEPTH
-----	STRUCTURE CONTOURS - On top of the Meade Peak Phosphatic Shale Member of the Phosphoria Formation. Contour interval 200 feet. Approximately located; dashed where contours are projected past control points or where structure is uncertain. Index Contour
-----	Intermediate Contour

  

Structure contours are not shown in: sec. 36, T. 8 S., R. 42 E., secs. 1 and 12, T. 9 S., R. 42 E. and the western edges of secs. 6 and 7, T. 9 S., R. 43 E.

  

\* Map units and symbols shown with an asterisk are not on this map.

