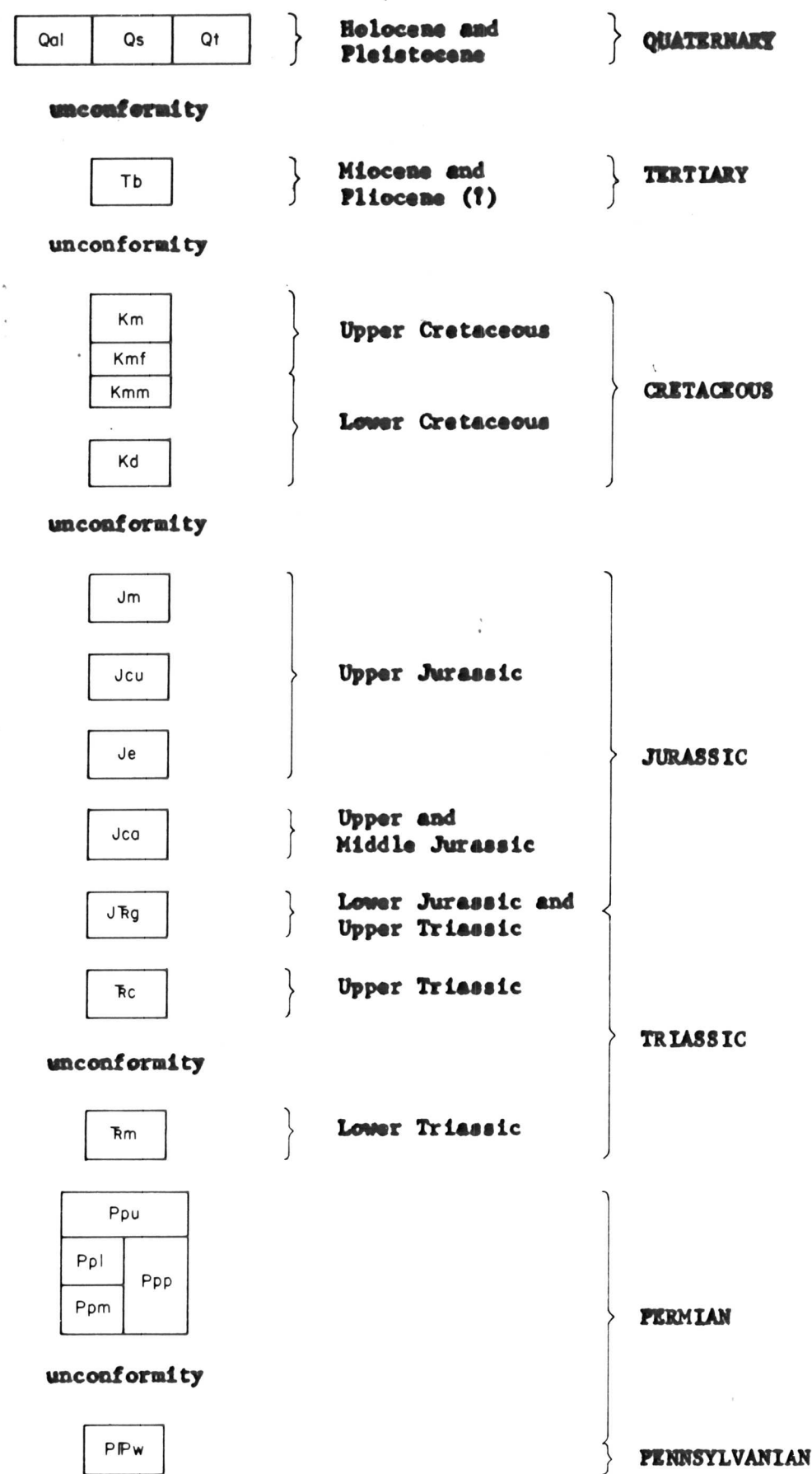


EXPLANATION FOR PLATES 1, 2, AND 3

CORRELATION OF MAP UNITS



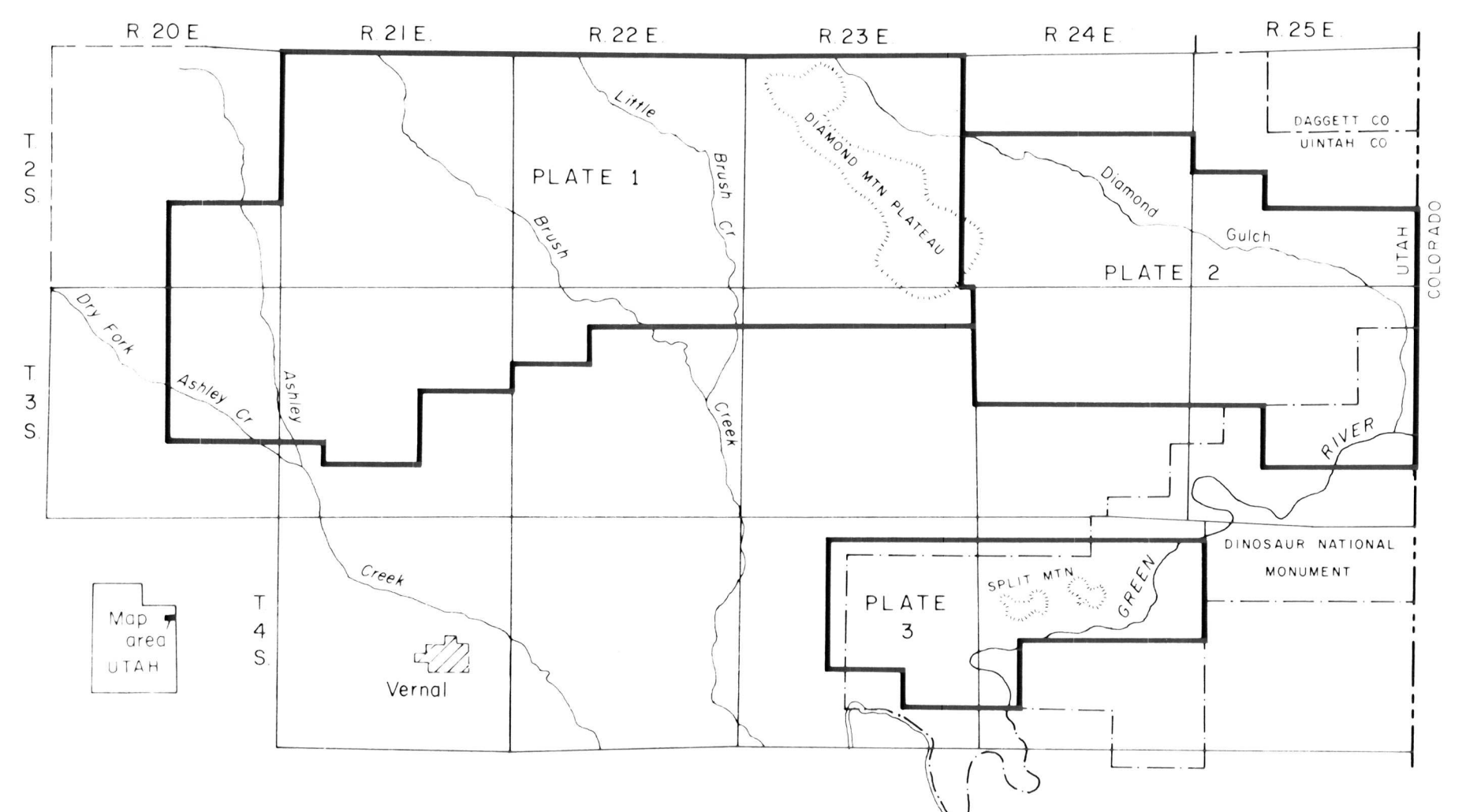
DESCRIPTION OF MAP UNITS

Qal	ALLUVIUM (HOLOCENE)--Includes some dune sand
Qs	SLOPE WASH (HOLOCENE)--Mostly debris from Browns Park Formation; includes material from adjacent sedimentary rocks
Qt	TERRACE DEPOSITS (PLEISTOCENE)
	unconformity
Tb	BROWNS PARK FORMATION (MIOCENE AND PLIOCENE?)--Fine-to coarse-grained sandstone and conglomerate, as much as 400 feet thick
	unconformity
Km	MAIN PART (UPPER CRETACEOUS)
Kmf	FRONTIER SANDSTONE MEMBER (UPPER CRETACEOUS)
Kmm	MOWRY SHALE MEMBER (LOWER CRETACEOUS)
Kd	DAKOTA SANDSTONE (LOWER CRETACEOUS)
	unconformity
Jm	MORRISON FORMATION (UPPER JURASSIC)
Jcu	CURTIS FORMATION (UPPER JURASSIC)
Je	ENTRADA SANDSTONE (UPPER JURASSIC)
Jco	CARMEL FORMATION (UPPER AND MIDDLE JURASSIC)
Jrg	GLEN CANYON SANDSTONE (LOWER JURASSIC AND UPPER TRIASSIC)
Rc	CHINLE FORMATION (UPPER TRIASSIC)
	unconformity
Rm	MOENKOPF FORMATION (LOWER TRIASSIC)--Reddish-brown and light-gray siltstone and fine-grained sandstone; 900-1,000 feet thick
	PARK CITY AND PHOSPHORIA FORMATIONS (PERMIAN)
	PARK CITY FORMATION, FRANCON MEMBER
Ppu	UPPER PART--Light-gray limestone and dolomite. On plates 1 and 2 unit includes 15-25 feet of reddish-brown siltstone, limestone, and sandstone at base (Mackentire Red Beds Tongue of Phosphoria Formation of Williams, 1939). Grades eastward and southward into tawny-colored rocks. About 95-145 feet thick in western part of area and 35-67 feet thick in eastern part
Ppl	LOWER PART--Light-gray cherty limestone, dolomite, and sandstone; about 35 feet thick. Mapped in western part of area (pl. 1)
Ppm	PHOSPHORIA FORMATION, MEADE PEAK PHOSPHATIC SHALE MEMBER--Light greenish-gray and olive-gray phosphorite, mudstone, chert, limestone, and dolomite; about 25 feet thick. Mapped in western part of area (pl. 1)
Ppp	PARK CITY AND PHOSPHORIA FORMATIONS, LOWER PART OF FRANCON MEMBER AND UNDERLYING MEADE PEAK MEMBER--Light-gray dolomite, limestone, chert, sandstone, mudstone, and thin phosphorite beds; 33-46 feet thick. Mapped in eastern part of area (pl. 2 and 3)
	unconformity
PPw	WEBER SANDSTONE (PERMIAN AND PENNSYLVANIAN)--Yellowish-gray to pale-brown calcareous sandstone; includes older rocks; about 1,150 feet thick

REFERENCE CITED

Williams, J. Stewart, 1939, "Park City" beds on southwest flank of Uinta Mountains, Utah: Am. Assoc. Petroleum Geologists Bull., v. 23, no. 1, p. 82-100

- Contact--Dashed where approximately located
- U 10
70 0 --- Fault--Showing dip. Dashed where approximately located, dotted where concealed by Quaternary deposits. U, upthrown side; D, downthrown side. Displacement shown in feet
- Anticline--Approximately located. Showing trace of axial plane and direction of plunge
- Strike and dip of beds
- Strike and dip of overturned beds
- Horizontal beds
- 6400 --- Structure contours--Drawn on top of Meade Peak Member of Phosphoria Formation. Dashed where approximately located. Datum is mean sea level
- Inferred basal contact of Meade Peak Member beneath Browns Park Formation
- Measured section
- CP-31
Lot 1219 --- Numbered trench locality--CP, U. S. Geological Survey trench excavated, logged, and sampled in 1964; Lot, trench described in U. S. Geological Survey Bull. 1007
- X Prospect pit
- ⊕ Fossil collection



INDEX MAP OF THE VERNAL PHOSPHATE AREA SHOWING LOCATIONS OF GEOLOGIC STRIP MAPS