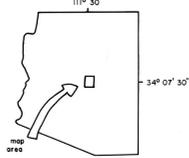
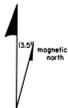


# GEOLOGIC MAP OF THE NORTHERN MAZATZAL MOUNTAINS, CENTRAL ARIZONA

SCALE 1:24,000



Mapping by Michael F. Doe 1987-91, David D. Puls and Karl E. Karlstrom (1986), Wrucke and Conway (1987) on U.S.G.S. topographic base (Cypress Butte, North Peak, Mazatzal Peak, Table Mountain 1:24,000 maps)

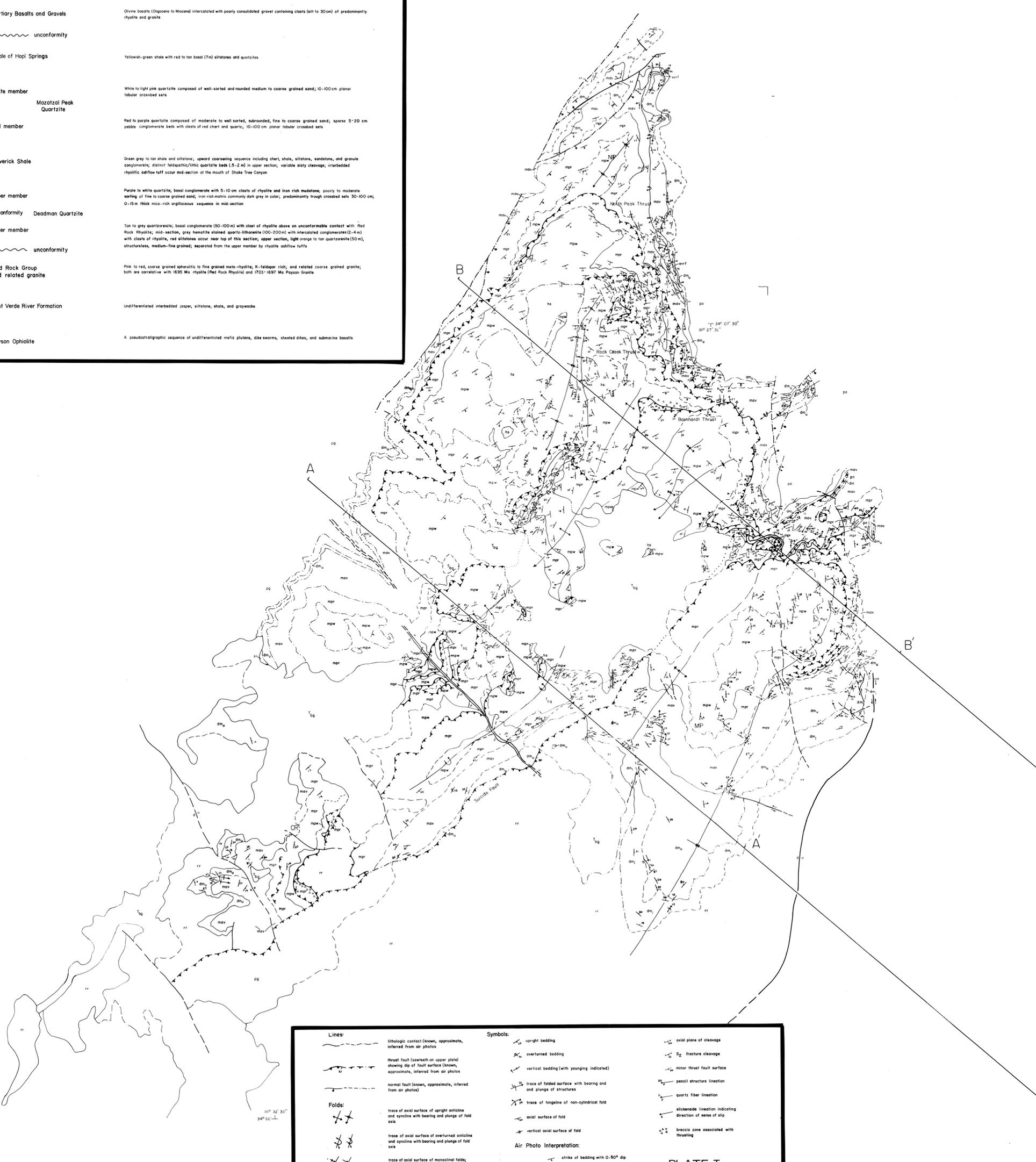


## EXPLANATION

Lithologies:

	<b>Tertiary Basalts and Gravels</b>	Oligive basalts (Oligocene to Miocene) intercalated with poorly consolidated gravel containing clasts (all to 30 cm) of predominantly rhyolite and granite
~~~~~ unconformity		
	<b>Shale of Hopi Springs</b>	Yellowish-green shale with red to tan basal (7 m) siltstones and quartzites
	<b>white member</b>	Mazatzal Peak Quartzite
	<b>red member</b>	
	<b>Maverick Shale</b>	Green gray to tan shale and siltstones; upward coarsening sequence including chert, shale, siltstone, sandstone, and granite conglomeratic; distinct felspathic/limb quartzite beds (3-2 m) in upper section; variable waxy cleavages; interbedded rhyolitic ashflow tuff occur mid-section at the mouth of Shake Tree Canyon
	<b>upper member</b>	Deadman Quartzite
	<b>lower member</b>	
~~~~~ unconformity		
	<b>Red Rock Group and related granite</b>	Pink to red, coarse grained spherulitic to fine grained meta-rhyolite; K-feldspar rich; and related coarse grained granite; both are correlative with 1695 Ma rhyolite (Red Rock Rhyolite) and 1703-1697 Ma Payson Granite
	<b>East Verde River Formation</b>	Undifferentiated interbedded Jasper, siltstone, shale, and graywacke
	<b>Payson Ophiolite</b>	A pseudostratigraphic sequence of undifferentiated mafic plutons, dike swarms, sheeted dikes, and submarine basalts

PROTEROZOIC



	<b>Lines:</b>	lithologic contact (known, approximate, inferred from air photos)		<b>Symbols:</b>	axial plane of cleavage
	thrust fault (seawards on upper plate) showing dip of fault surface (known, approximate, inferred from air photos)		upright bedding		fracture cleavage
	normal fault (known, approximate, inferred from air photos)		overturned bedding		minor thrust fault surface
	trace of axial surface of upright anticline and syncline with bearing and plunge of fold axis		vertical bedding (with younging indicated)		pencil structure lineation
	trace of axial surface of overturned anticline and syncline with bearing and plunge of fold axis		trace of folded surface with bearing and axial plunge of structures		quartz fiber lineation
	trace of axial surface of monoclinial folds; double arrows indicate limb with steeper dip		trace of hinge line of non-cylindrical fold		slickenside lineation indicating direction of sense of slip
	trace of axial surface of nearly recumbent, overturned fold; limbs dip in opposite directions		axial surface of fold		breccia zone associated with thrusting
				<b>Air Photo Interpretation:</b>	
				strike of bedding with 0-30° dip	
				strike of bedding with 30-60° dip	
				strike of bedding with 60-90° dip	

PLATE I