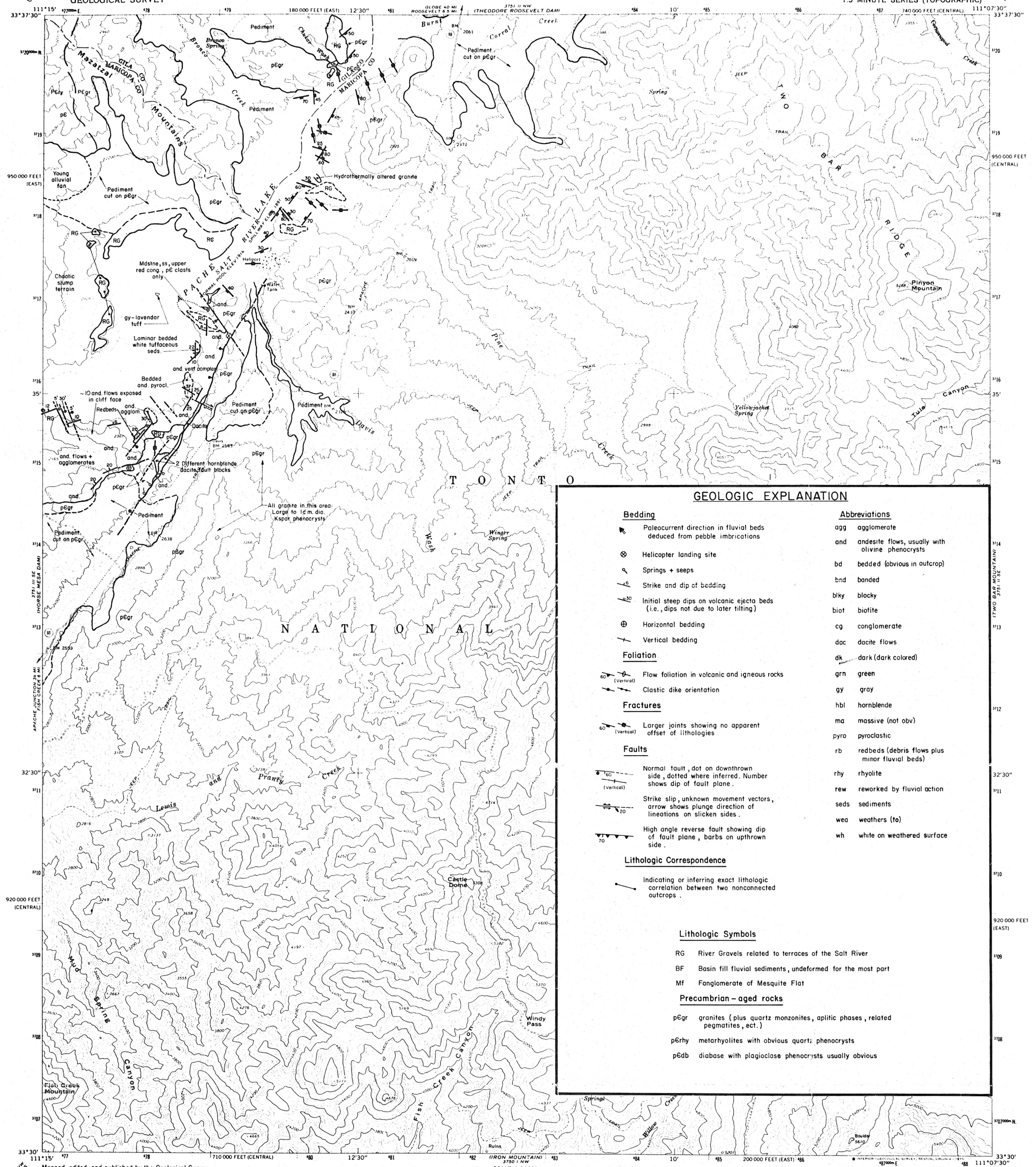
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PINYON MOUNTAIN QUADRANGLE
ARIZONA
7.5 MINUTE SERIES (TOPOGRAPHIC)



GEOLOGIC EXPLANATION

Bedding

- Paleocurrent direction in fluvial beds deduced from pebble imbrications
- Helicopter landing site
- Springs + seeps
- 6 — Strike and dip of bedding
- 30 — Initial steep dips on volcanic ejecta beds (i.e., dips not due to later tilting)
- Horizontal bedding
- Vertical bedding

Foliation

- 60 (Vertical) — Flow foliation in volcanic and igneous rocks
- Clastic dike orientation

Fractures

- 60 (Vertical) — Larger joints showing no apparent offset of lithologies

Faults

- 60 (Vertical) — Normal fault, dot on downthrown side, dotted where inferred. Number shows dip of fault plane.
- 20 — Strike slip, unknown movement vectors, arrow shows plunge direction of lineations on slicken sides.
- 70 — High angle reverse fault showing dip of fault plane, barbs on upthrown side.

Lithologic Correspondence

- Indicating or inferring exact lithologic correlation between two nonconnected outcrops.

Abbreviations

agg	agglomerate
and	andesite flows, usually with olivine phenocrysts
bd	bedded (obvious in outcrop)
bnd	banded
blky	blocky
biot	biotite
cg	conglomerate
dac	dacite flows
dk	dark (dark colored)
grn	green
gy	gray
hbl	hornblende
ma	massive (not obv)
pyro	pyroclastic
rb	redbeds (debris flows plus minor fluvial beds)
rhy	rhyolite
rew	reworked by fluvial action
seds	sediments
wea	weathers (to)
wh	white on weathered surface

Lithologic Symbols

RG	River Gravels related to terraces of the Salt River
BF	Basin fill fluvial sediments, undeformed for the most part
Mf	Fanglomerate of Mesquite Flat

Precambrian-aged rocks

pEgr	granites (plus quartz monzonites, aplitic phases, related pegmatites, ect.)
pErhy	metarhyolites with obvious quartz phenocrysts
pEdb	diabase with plagioclase phenocrysts usually obvious

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1964

Polyconic projection. 1927 North American datum
10,000-foot grids based on Arizona coordinate system, central and east zones
1000-metre Universal Transverse Mercator grid ticks, zone 12, shown in blue

Where omitted, land lines have not been established

UTM GRID AND 1964 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

GEOLOGY BY UNIVERSITY OF ARIZONA GEOLOGISTS AND BUREAU OF RECLAMATION GEOLOGISTS

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66	65	64	63	62

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

SALT RIVER PROJECT

REGIONAL GEOLOGY

25-300-62

MARCH 1981