



- EXPLANATION**
- BASIN OF SENTINEL PLAIN AND PINACATE VOLCANIC FIELD
 - ZERO MEAN RESIDUAL GRAVITY CONTOUR TAKEN FROM FOURIER HIGH-PASS GRAVITY CONTOUR MAP OF THE AJO QUADRANGLE; TICKS TOWARDS LOWS
 - AREA OF -10 TO -15 MGAL RESIDUAL GRAVITY DATA
 - AREA OF LESS THAN -15 MGAL RESIDUAL GRAVITY DATA
 - WATER WELL; TEMPERATURE IN °C
 - POTENTIAL URANIUM SOURCE AREAS BASED ON THE PRESENCE OF MESAHITE 1 STREAM-SEDIMENT CONCENTRATOR SAMPLES (U1-U7)
 - TRACTS DELINEATED FOR PLACER GOLD DEPOSITS (P1-P4)
 - TRACTS DELINEATED FOR CONTINENTAL EVAPORITE DEPOSITS (E1-E11)
 - TRACTS DELINEATED FOR BASIN-HOSTED URANIUM DEPOSITS (U1-U6)
 - TRACTS DELINEATED FOR GEOTHERMAL AREAS (G1-G3)

- CORRELATION OF MAP UNITS**
- | | | |
|-----|-----|--|
| Qa | Qb |] QUATERNARY |
| Qc | Qd | |
| Qe | Qf |] QUATERNARY AND TERTIARY |
| Qg | Qh | |
| Ta | Tb |] TERTIARY |
| Tc | Td | |
| Te | Tf | |
| Tg | Th | |
| Ti | Tj | |
| Tk | Tl | |
| Tm | Tn |] TERTIARY AND CRETACEOUS |
| To | Tp | |
| Tq | Tr |] CRETACEOUS AND JURASSIC |
| Ts | Tt | |
| Tu | Tv |] JURASSIC |
| Tw | Tx | |
| Ty | Tz |] MESOZOIC TO EARLY PROTEROZOIC |
| Taa | Tab | |
| Tac | Tad |] PALEOZOIC AND LATE PALEOZOIC |
| Tae | Taf | |
| Tag | Tah |] MIDDLE PROTEROZOIC AND EARLY PROTEROZOIC |
| Tai | Taj | |
| Tak | Tal |] EARLY PROTEROZOIC |
| Tam | Tan | |

- DESCRIPTION OF MAP UNITS**
- Qa ALLEVIUM (QUATERNARY)
 - Qb LANDSLIDE DEPOSITS (QUATERNARY)
 - Qc BASALT OF SENTINEL PLAIN AND PINACATE VOLCANIC FIELD (QUATERNARY AND TERTIARY)
 - Ta BASALT AND BASALTIC ANDESITE (TERTIARY)—Includes the Sacramento Andesite; scattered capping basaltic flows, tuffs, and breccias
 - Tb RHYOLITE, HYDROCALCITE, AND MINOR DACITE FLOWS AND FLACS (TERTIARY)—In the Bates and Pozo Hedondo Mountains and the Ajo Range
 - Te CHILDS LATIC FLOWS AND FLOW BRECCIA (TERTIARY)
 - Tc RHYOLITE COMPLEX (TERTIARY)—Mostly extensive flows in the Succeda and Sand Tank Mountains. Rhyolite flows, flow breccia, and tuffs predominate in the Succeda Mountains. Porphyritic Mottles to Mottles-borehole-bearing rhyolite and dacite occur in the Sand Tank Mountains. Generally, eruptions in the Succeda Mountains are younger than those of the Sand Tank Mountains
 - Tbc BASALTIC COMPLEX: PRIMARILY COARSE, PORPHYRITIC BASALT TO BASALTIC ANDESITE (TERTIARY)
 - Tcs CONGLOMERATE AND MINOR SANDSTONE INCLUDING DANIEL'S CONGLOMERATE (TERTIARY)—Widely scattered occurrences; generally the Daniel's Conglomerate is only significant sedimentary rock lying within the Ajo Volcanic Field
 - Td DACITIC TO RHYOLITIC FLOWS, FLOW BRECCIA, DICES, AND SILLS; MINOR LATIC AND ANDESITIC TUFFACEOUS ROCK (TERTIARY)
 - Tef RHYOLITE FLOWS, RHYODACITE, ASH FLOW TUFFS, MINOR ANDESITE (TERTIARY)
 - Tbv BASAL VOLCANIC SEQUENCES (TERTIARY)—low-lying, typically poorly exposed porphyritic plagioclase andesite and minor tuff. Includes Sand Andesite of Gilluly (1944)
 - Tac ANDESITE OF CASTLE HOME MOUNTAINS (TERTIARY)
 - Taf ANDESITE AND PANGLOSS, MINOR COARSE ARGILLIC SANDSTONE (EARLY TERTIARY)—Commonly occurs as intercalated steeply tilted sequence
 - Tg BIOTITE-HORNBLENE GRANITE (EARLY TERTIARY)
 - Tgt TWO-MICA GRANITE, BIOTITE GRANITE (EARLY TERTIARY AND LATE CRETACEOUS)
 - TKgh HORNBLENE BIOTITE SERIES GRANITOID (EARLY TERTIARY AND LATE CRETACEOUS)
 - KJev SEDIMENTARY AND VOLCANIC ROCKS (CRETACEOUS AND (OR) UPPER JURASSIC)
 - KJg GRANITIC ROCKS (CRETACEOUS OR JURASSIC)
 - Jg GRANITIC AND SYENITIC ROCKS (JURASSIC)
 - Jv VOLCANIC AND MINOR SEDIMENTARY ROCKS (JURASSIC)
 - PLS SEDIMENTARY ROCKS INCLUDING APACHE GROUP ROCKS, DIABASE (PALEOZOIC AND LATE PROTEROZOIC)
 - Yg GRANITE (MIDDLE AND EARLY PROTEROZOIC)
 - Xs UNDIFFERENTIATED SCHIST (EARLY PROTEROZOIC)—Includes Pinal Schist
 - HTX GNEISS AND SCHIST (MESOZOIC AND (OR) MIDDLE PROTEROZOIC AND (OR) EARLY PROTEROZOIC)
 - MXp PARAGNEISS (MESOZOIC AND (OR) PALEOZOIC AND (OR) MIDDLE PROTEROZOIC AND (OR) EARLY PROTEROZOIC)

TRACTS DELINEATED FOR PLACER GOLD DEPOSITS, CONTINENTAL EVAPORITE DEPOSITS, BASIN-HOSTED URANIUM DEPOSITS, AND GEOTHERMAL AREAS

By Jocelyn A. Peterson, Dennis P. Cox, and Floyd Gray

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Simplified geologic map compiled by
Floyd Gray, R.J. Miller, and M.J. Grubersky

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature