Compilation geologic map of the Oracle 7 ½' Quadrangle, Pinal and Pima Counties, Arizona

by

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Plate 1, Scale 1:24,000

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ARIZONA GEOLOGICAL SURVEY
Open-File Report 00-05, sheet 1 of 1, with text

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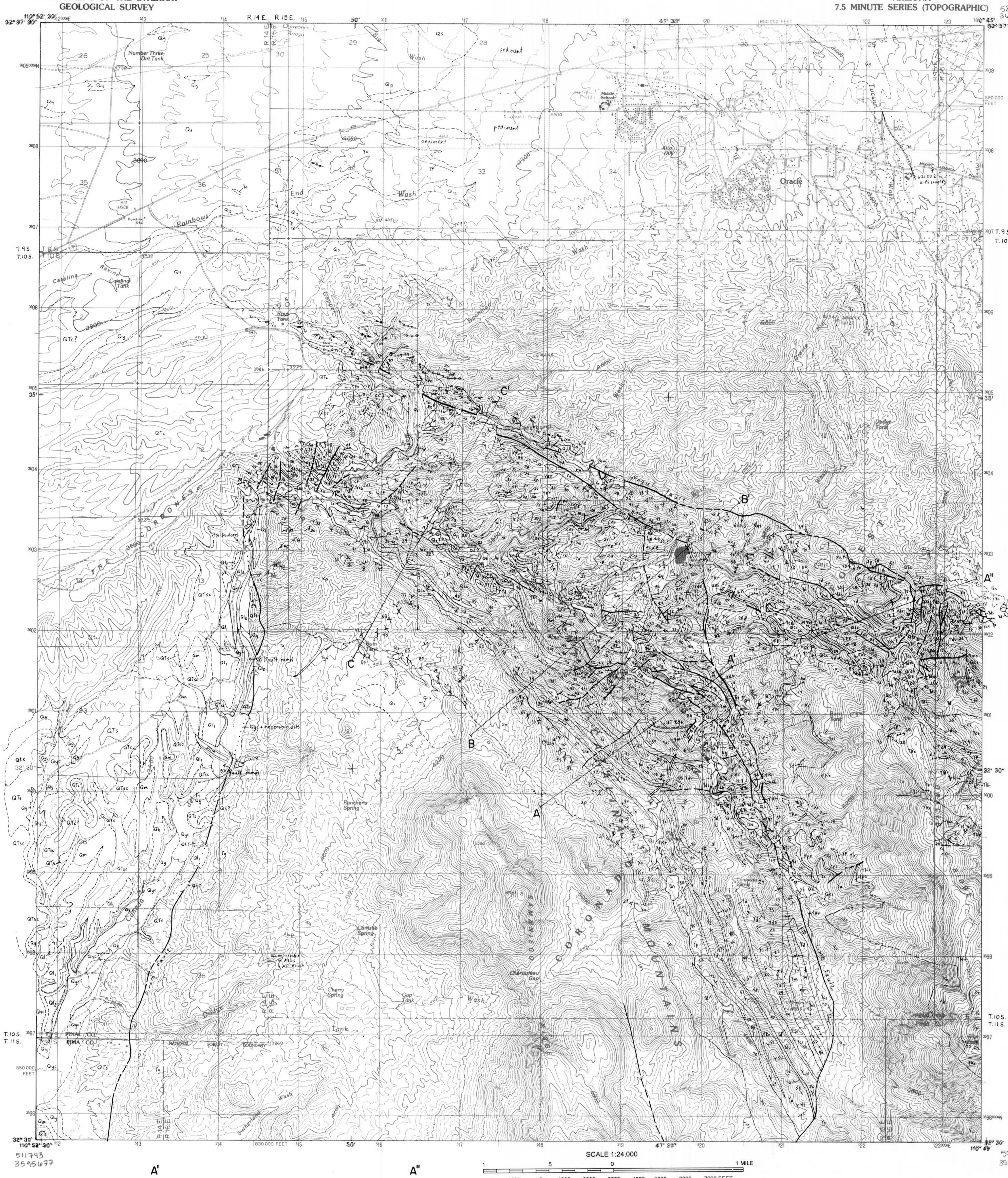
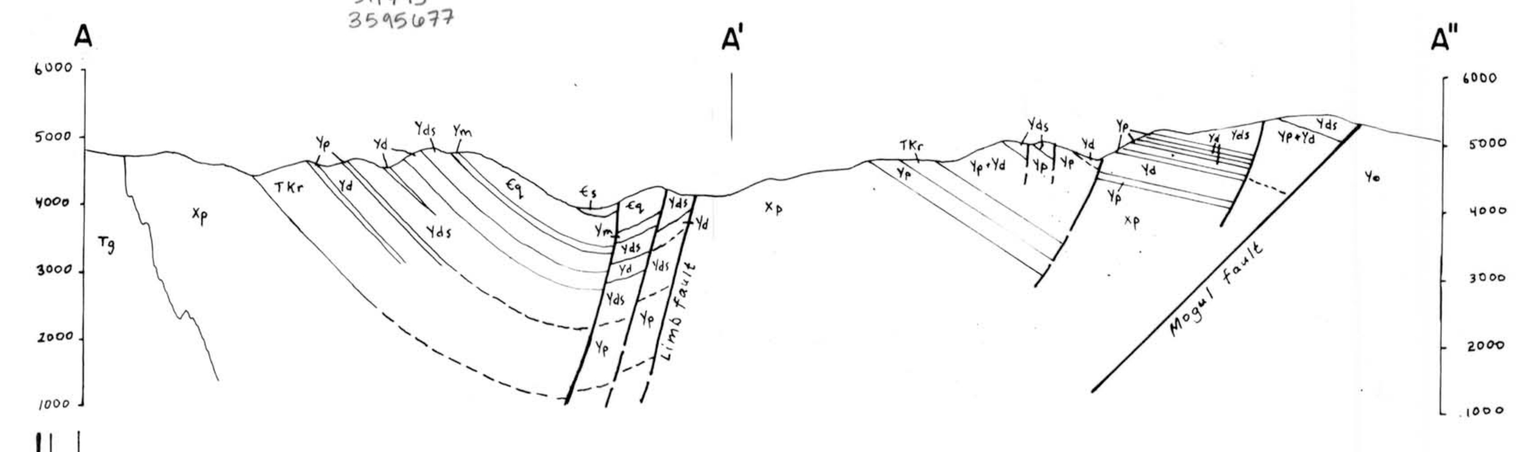
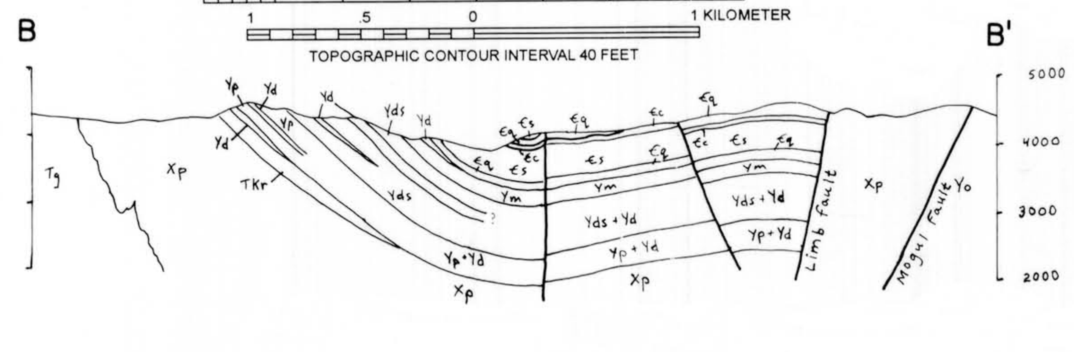
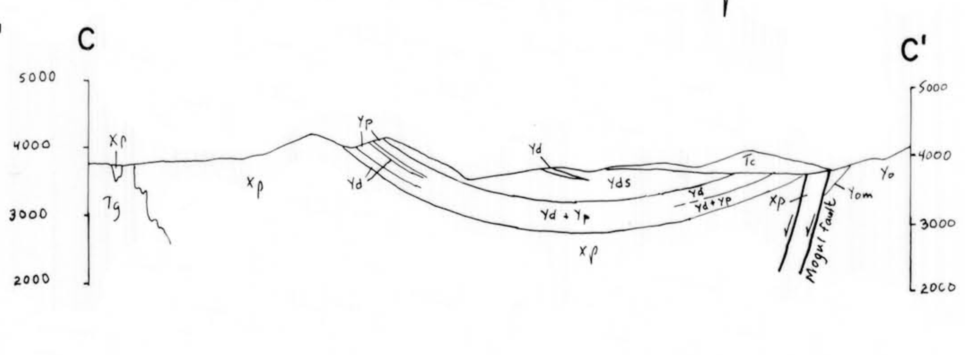
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ORACLE QUADRANGLE
ARIZONA
7.5 MINUTE SERIES (TOPOGRAPHIC)









Rock Units

Quaternary and late Tertiary map units

Qyc	**Young alluvium in active stream channels (Holocene, <0.5 ka)**
Qy	**Young alluvium (Holocene, <10 ka)**
Ql_2	**Terrace deposits (Late Pleistocene, 10 to 250 ka)**
Ql_1	**Terrace deposits (Late Pleistocene, 10 to 250 ka)**
Qm	**Terrace deposits (Middle Pleistocene, 250 to 750 ka)**
Qtc	**Talus and colluvium (Quaternary)**
Qs	**Surficial deposits, undivided (Quaternary)**
Qls	**Landslide deposits (Quaternary)**
QTc	**Cordones Fanglomerate (Pleistocene to Pliocene)**
QTs	**Pre-Cordones gravels (Pleistocene to Pliocene)**
QTsc	**Pre-Cordones gravels and mantling terrace deposits and locally derived sediments, undivided (Pleistocene to Pliocene)**

Tertiary and Cretaceous map units

Tc	**Conglomerate (Pliocene or Miocene)**
Ta	**Little Hill alaskite (Tertiary)**
Tf	**Felsite dike (Tertiary?)**
Tap	**Aplitic to pegmatitic dike (Tertiary?)**
Tg	**Catalina granite (Tertiary)**
Tga	**Catalina granite, aplitic (Tertiary)**
TKr	**Rice Peak porphyry (Early Tertiary to Late Cretaceous)**

Cambrian and Proterozoic map units

Ꞓq	**Quartzite (Cambrian)**
Ꞓc	**Carbonate (Cambrian)**
Ꞓs	**Metasiltstone (Cambrian)**—Includes argillaceous and sandy metasedimentary rocks
ꞒYc	**Campo Bonito Formation (Middle Proterozoic to Cambrian)**
Yd	**Sierra Ancha Diabase (Middle Proterozoic)**
Ym	**Mescal Limestone, Apache Group (Middle Proterozoic)**
Yds	**Dripping Spring Quartzite, undivided, Apache Group (Middle Proterozoic)**
Ydsq	**Dripping Spring Quartzite, prominent quartzite unit, Apache Group (Middle Proterozoic)**
Ydsb	**Barnes Conglomerate member, Dripping Spring Quartzite, Apache Group (Middle Proterozoic)**
Yp	**Pioneer Formation, Apache Group (Middle Proterozoic)**
Yps	**Scanlon Conglomerate member of the Pioneer Shale, Apache Group (Middle Proterozoic)**
Yo	**Oracle Granite (Middle Proterozoic)**
Yoc	**Oracle Granite, cataclastically deformed (Middle Proterozoic protolith, Tertiary(?) deformation)**
Yom	**Oracle Granite, mylonitically deformed (Middle Proterozoic protolith, Tertiary(?) deformation)**
Yoa	**Aplite and pegmatite associated with the Oracle Granite (Middle Proterozoic)**
Xp	**Pinal Schist (Middle Proterozoic)**

Contacts

Fault, showing dip—Dashed where approximately located, dotted where concealed

High-angle fault, showing dip—Bar and ball on down-thrown side

Low-angle fault, showing dip—Tick marks on overlying rocks

Map symbols

Bedding, inclined

Bedding, vertical

Bedding, inclined, top direction known

Bedding, inclined, approximate orientation

Transposed bedding

Joints, inclined

Slatey cleavage

Crenulation cleavage overprinting slatey cleavage

Hingeline of crenulation folds

Attitude of younger of two spaced cleavages

Generic foliation, inclined

Generic foliation, vertical

Laminated differentiated foliation, with lineation—Foliation defined by laminations that result from a combination of across-bedding compositional variations and metamorphic differentiation. Generally, the relative significance of original compositional variations and metamorphic differentiation is not known.

Laminated differentiated foliation with weak tectonite fabric development, with lineation

Spaced cleavage, with streaking lineation on cleavage surface

Tectonite fabric, with stretching lineation

Mylonitic fabric, with lineation

Mylonitic fabric, with lineation—Arrow shows direction that structurally higher rocks were displaced during fabric development, as indicated by asymmetric porphyroclasts and S-C fabrics.

Trend and plunge of small folds

Syncline axis

Fault breccia, with brittle fabric elements parallel to shear zone

Shattered rocks and breccia of uncertain origin, isotropic

Marker bed

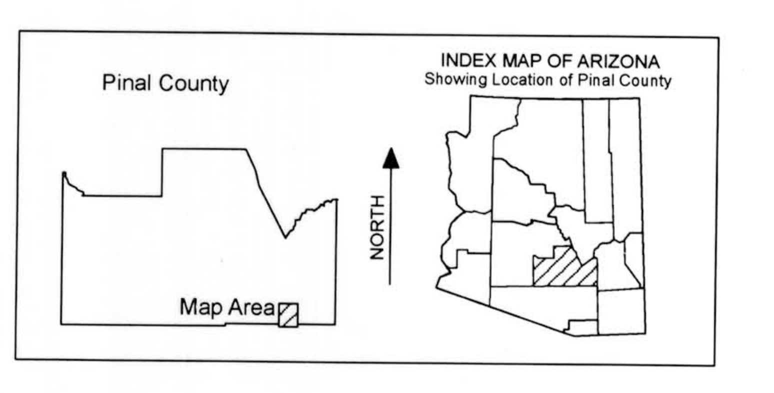
Basal conglomerate

Quartz vein

Rock sample

11-19-99-1

N
MN
12.5°



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