Open File Report-52

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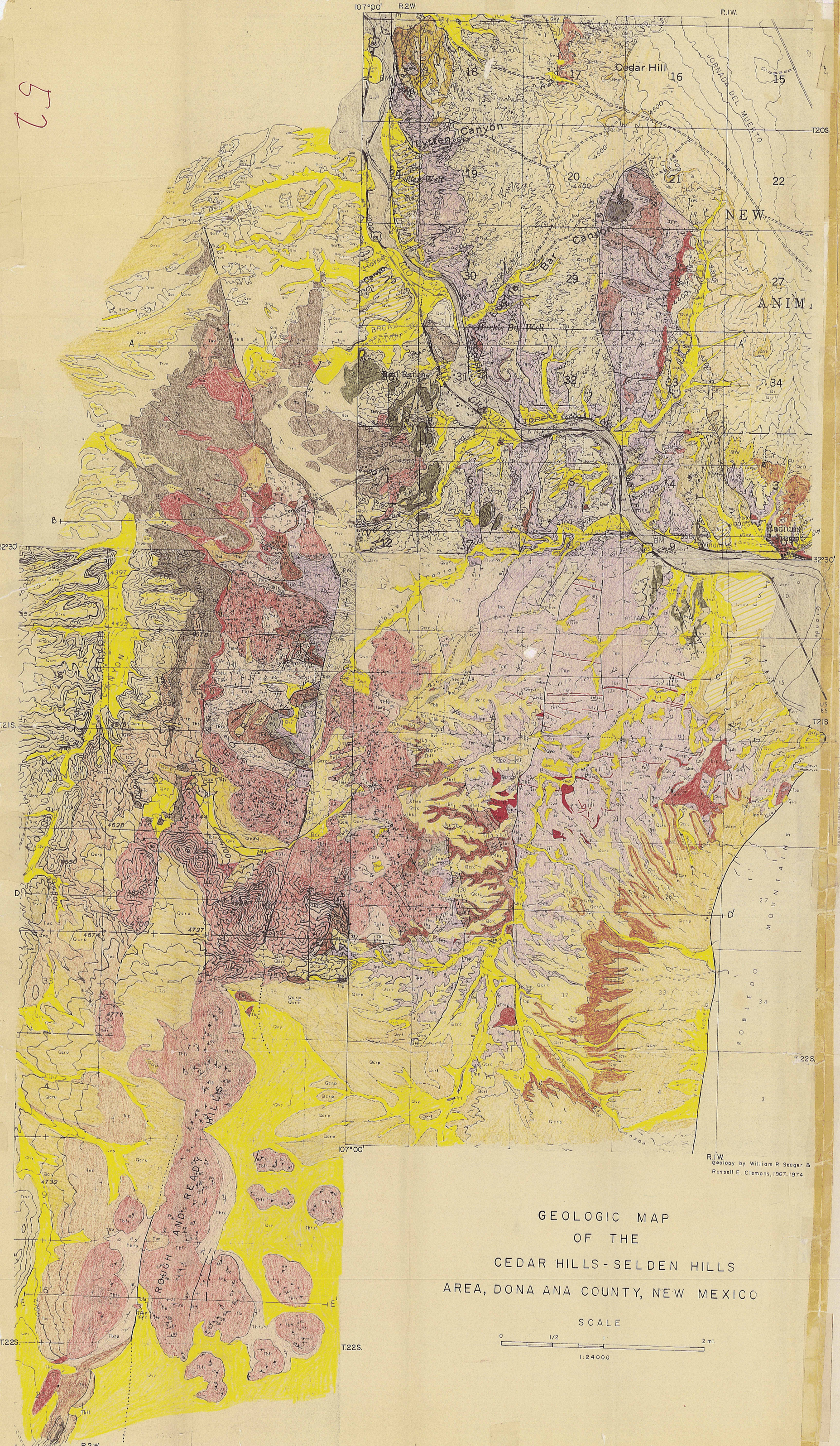

GEOLOGIC MAP OF THE CEDAR HILLS-SELDEN HILLS AREA, DONA ANA COUNTY, NEW MEXICO

SCALE

0 1/2 1 2 mi.

1:24000

EXPLANATION

Qvy-Arroyo, fan and terrace deposits; intertongues with river floodplain and channel deposits (Qvyf)

Qs Wind-blown sand and loamy sediment

Qco SLOPE COLLUVIUM Older Valley Fill Alluvium

Qvo-Piedmont slope alluvium; intertongues with river channel and floodplain deposits (Qvof). Qvou-Undifferentiated piedmont slope and fluvial deposits.

Angular Unconformity

CAMP RIDE FORMATION

Qcrp-Fanglomerate on piedmont slopes; Qcrr-Fluvial facies of ancestral Rio Grande; intertongues with: Qcrc, piedmont toeslope to alluvial flat and playa sediments, and Qcrcc, fanglomerates; Qcru-Undifferentiated Camp Ride Fm.

Angular Unconformity

MINCON VALLEY FORMATION

Qvro-Fanglomerate facies, includes Selden Basalt Member locally (Tbva); intertongues or grades laterally and vertically to: Tvr, basin-floor, playa lake facies; about 50 to 500 ft thick

Local Angular Unconformity

HAYNER RANCH FORMATION

Brick red sandstone, conglomeratic sandstone and conglomerate, with interbedded pale pink to light gray mudstone; about 1900 ft thick.

Angular Unconformity

UVAS BASALTIC ANDESITE

Basaltic andesite flows (Tu) and agglomerate and cinder beds (Tuv) interbedded with fanglomerate and sandstone of the Coyote Canyon member (Tuc). About 820 ft thick.

ANDESITE OF FAULKNER CANYON

Black to greenish gray andesite dikes and plugs

TUFF 6 MEMBER

Porous to dense, pale grayish-red, vitric-crystal ash-flow tuff; 0 to 50 ft thick.

TUFF 5 MEMBER

Porous to dense, grayish-pink, crystal-vitric ash-flow tuff. Abundant, slightly flattened, white to light-gray pumice fragments; 0 to 125 ft thick.

TUFF 4 MEMBER

Porous to dense, pale grayish-red-purple vitric-crystal ash-flow tuff. Abundant flattened dark grayish-red devitrified pumice fragments to 1 ft diameter; 0 to 100 ft thick.

Unconformity

Tbl - Pink to very light tan rhyolite latite dike in secs. 25 and 26, T.21S., R.2W. Tbrh - Red and gray flow-banded rhyolite domes and associated breccia and autobreccia (Cedar Hills type). Tbrp - Cream to pink rhyolite porphyry intrusives (Robledo type). Tbtu - White, tan, yellow air-fall breccia and tuff and epiclastic sediments; to about 300 ft thick, except in Foster Canyon where up to 800 ft may be present; mapped as Tbf where Tb is absent. Tbu - Yellow-brown vesicular andesite in form of flows and dikes in Tbtu near Porcupine Tank diatreme. Tbf - TUFF 3 MEMBER; Pink to red pumiceous ash-flow tuff, intercalated in part; about 200 ft thick. Tbtl - White to tan air-fall tuff and breccia, locally opaline, containing interbedded epiclastic sediments; about 50-150 ft thick; mapped as Tbt where Tb is absent.

Tbb BASALT MEMBER

Dense, black, vesicular, olivine-bearing basalt flows and interbedded muddy to sandy conglomerate. About 450 ft thick in Foster Canyon.

Disconformity

Tpp PALM PARK FORMATION

Tpp-Epiclastic sediments, mainly tuffaceous, minor andesite flows; Tppi - Subvolcanic andesite porphyry dikes and sills.

Do ORDATE FORMATION

Gray to tan fossiliferous shale and thin-bedded siltstone.

Sf FUSSELMAN DOLOMITE

Massive gray to tan cherty dolomite.

MIOCENE — MID TO EARLY PLEISTOCENE — UPPER SANTA FE GP.

MIOCENE — MID TO EARLY PLEISTOCENE — LOWER SANTA FE GP.

OLIGOCENE — BELL TOP FORMATION

EOCENE

DEVONIAN

SILURIAN

SYMBOLS

Geologic contact, dashed where approximately located.

Normal fault, dashed where inferred or approximately located, dotted where concealed. Arrows show direction of dip. Ball on downthrown side.

Gravity slide block, arrows on hanging wall.

12 Strike and dip of beds.

5 Apparent dip direction and amount.

60 Strike and dip of flow foliation.

Strike of vertical flow foliation.

A A' Line of measured section.

Breccia.

X Banded calcite (T) or opal (O) quartzes.

Banded calcite veins.

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SCALE

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