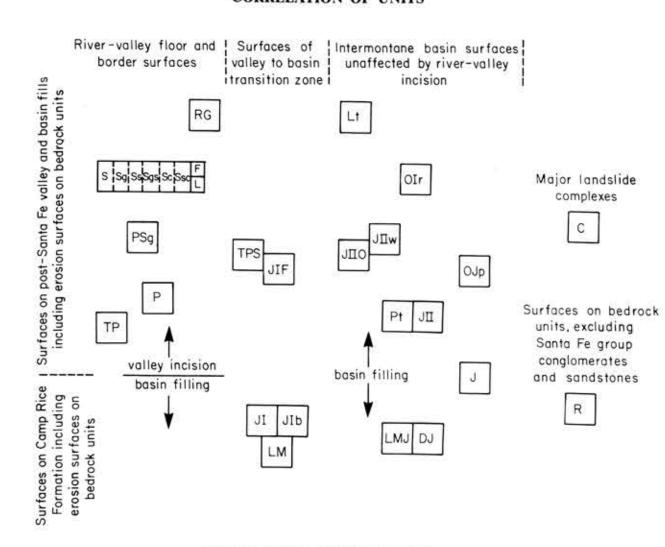
CORRELATION OF UNITS



DESCRIPTION OF MAP UNITS

Surfaces of bedrock units (see Sheet 1) Uplands (mountains, hills, and ridges), undifferentiated; erosion surfaces in piedmontand valley-border positions, includes pediments, structural benches, exhumed erosion sur-

faces, and miscellaneous rock outcrops Large landslide blocks on east flank of Robledo Mountains; locally override Camp Rice

Surfaces on nonindurated to partly indurated fill materials

Rio Grande valley floor and border

- Rio Grande flood-plain and channel surfaces underlain by as much as 80 ft (24 m) of upper Quaternary alluvium
- Fillmore surface (constructional phase) and arroyo channels. Valley-border fan, terrace, and channel surfaces underlain by Holocene alluvial deposits of the Fillmore morphostratigraphic unit, and arroyo-channel materials; with inclusions of Leasburg and Picacho surfaces and associated deposits on valley borders adjacent to the Doña Ana and Robledo Mountains
- Leasburg surface. Complex of erosional (major) and constructional (minor) surfaces of Late Wisconsinan to early Holocene age; mapped only on river-terrace remnant near Fort Selden
- Fort Selden surfaces (Leasburg and Fillmore-undifferentiated) and arroyo channels. S-primarily erosion surfaces, with thin associated fills, on gravelly to sandy deposits of the Picacho and Tortugas morphostratigraphic units and the Camp Rice Formation. Sqprimarily erosional surfaces, with thin associated fills, on gravelly deposits of the Picacho and Tortugas morphostratigraphic units. Ss-primarily erosional surfaces, with thin associated fills, on sandy deposits of the Camp Rice Formation-fluvial faces (Qcrf), with minor inclusions of Sg and Sgs mapping units. Sgs-primarily erosional surfaces on gravel and sand deposits of the Camp Rice Formation-fluvial facies (Qcrf), expressed as ridges and structural benches in upper valley-side positions with local inclusions of Picacho and Tortugas erosion surfaces on ridge crests. Sc-primarily erosional surfaces on basal conglomeratic unit of the Camp Rice Formation (Qcrc), expressed as ridges and structural benches on west flank of Doña Ana Mountains and south flank of Robledo Mountains,
- plex of Ss and Sc units Picacho surface (constructional phase). Valley-border fan and terrace surfaces graded to an ancestral flood-plain level about 70 ft (20 m) above the present valley floor and underlain

with local inclusions of Picacho and Tortugas erosion surfaces or ridge crests. Scs-com-

- by alluvium of the Picacho morphostratigraphic unit (late Pleistocene) Picacho-Fort Selden surface complex on fan deposits of Picacho morphostratigraphic unit; with inclusions of unit TP west of Doña Ana Mountains
- Tortugas-Picacho surface complex. Valley-border fan, terrace, and minor pediment surfaces graded to ancestral flood-plain levels from 70 to 125 ft (20-38 m) above the present valley floor and underlain by alluviums of the Picacho and Tortugas morphostratigraphic units (Late Pleistocene)
- Post-Jornada I erosion-surface complex (late Pleistocene) on Camp Rice basin fill;
- with younger valley-fill units (F, L, TP) along major arroyos. Primarily erosion surfaces cut into Camp Rice piedmont-slope alluvium (Qcrp) and with buried soils
- Complex of Jornada I to Fillmore age surfaces (JI, TP, S) in vicinity of valley-rim scarps

Intermontane basins unaffected by incision of Rio Grande valley

of the San Andres Mountains

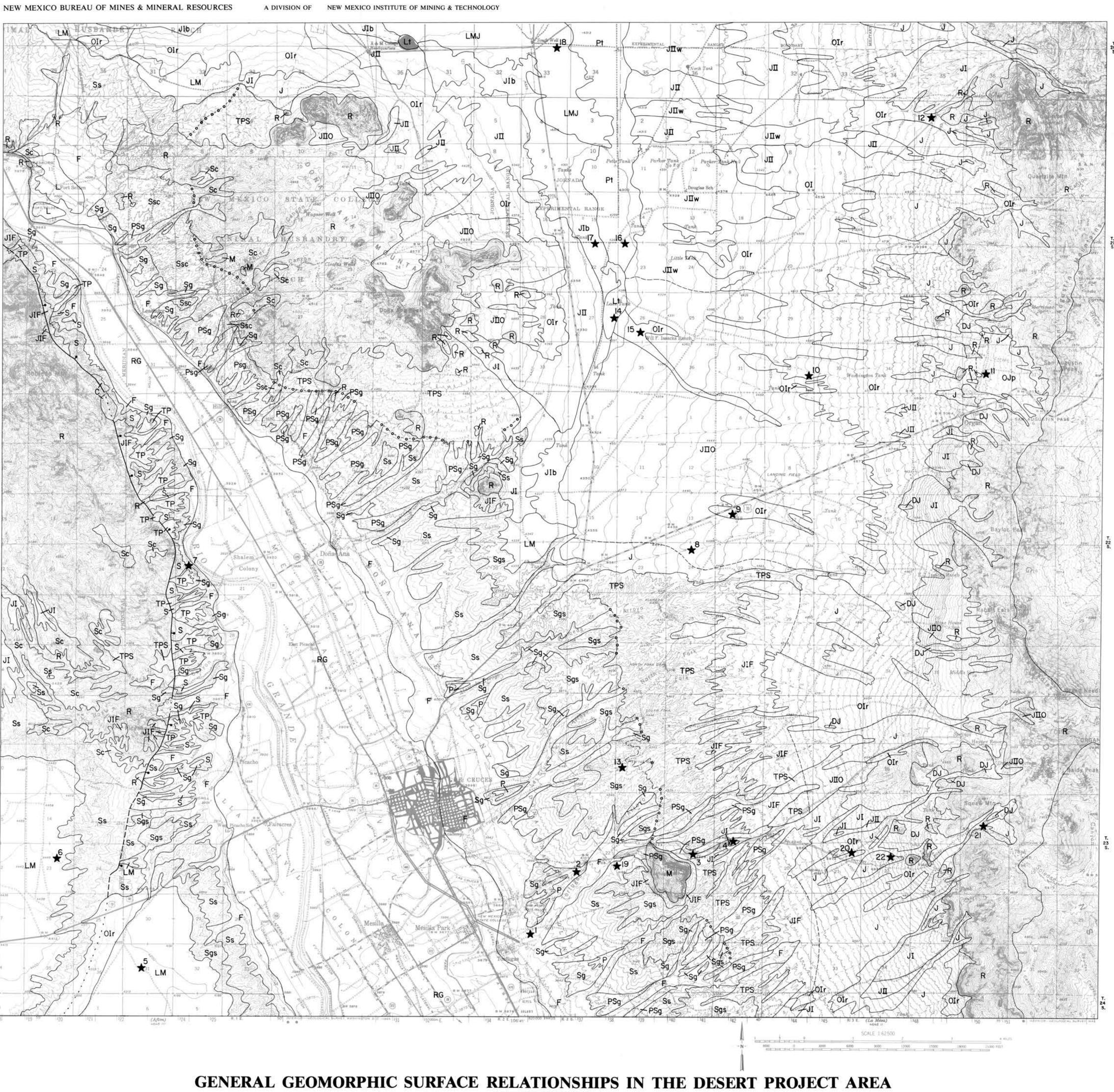
- Lake Tank surface. Ephemeral lake plains (playas) underlain by as much as 15 ft (4.5 m) finegrained sediments
- Organ and Issacks' Ranch surface complex (constructional phase). Piedmont-slope fan, drainageway, and arroyo-terrace surfaces underlain by upper Quaternary alluviums of the Organ (dominant) and Isaacks' Ranch morphostratigraphic units. Forms an extensive alluvial mantle (as much as 10 ft, 3 m thick) on piedmont slopes of the southern Jornada del
- Muerto. The Isaacks' Ranch Unit is a subordinant, but significant, component west of the Organ Mountains. Mapping unit includes surfaces at the toe of scarp separating upper and lower La Mesa surfaces west of Area 5 Organ-Isaacks' Ronch complex on Jornada rock pediment; with inclusions of map-
- ping unit J Jornada II surface (constructional phase). Coalescent-fan-piedmont surface underlain by
 - deposits of the Jornada II morphostratigraphic unit (late Pleistocene); with minor inclusions of JI and OIr mapping units
- Jornada II surface, with local Organ and Isaacks' Ranch alluvial fills in major drainageway Whitebottom-Jornada II-Organ complex. Scarplet erosion surfaces of latest Holocene age that have resulted in partial dissection of JIIO landscape on lower piedmont slopes west
- Petts Tank surface. Constructional basin-floor surface northeast of Isaacks Lake; on finegrained sediments of the Petts Tank morphostratigraphic unit (late Pleistocene); grades to Jornada II unit
- Jornada I surface (constructional phase). JI-piedmont-slope and basin-floor complex of middle Pleistocene age; approximates youngest depositional surface of the Camp Rice Formation and formed primarily on younger piedmont facies. Jlb-basin floor areas underlain by as much as 7 ft (2 m) of fine-grained sediments over fluvial sands of the Camp
- Jornada I and II surface complex along mountain fronts. Jornada I surface generally occurs as high-level remnants above Jornada II surface on partly dissected fans; with inclusions of younger surfaces along major stream systems and local remnants of the Doña Ana (D) surface
- DJ Doña Ana and Jornada surface complex, of early to middle Pleistocene age, along Organ Mountain front, Doña Ana surfaces occur as highest and oldest fan remnants above stepped sequence of Jornada and younger surfaces in fan-head trenches and interfan valleys; with inclusions of Jornada II and younger surfaces along major stream systems. Formed primar-
- ily on piedmont facies of the Camp Rice Formation (Qcrp, Qcrc) La Mesa surfaces. Complex of early to middle Pleistocene constructional surfaces on sand and gravel of the Camp Rice Formation-fluvial facies (Qcrf)
- La Mesa-Jornada I complex. Low ridge remnants of La Mesa and Jornada I surfaces on floor of southern Jornada del Muerto Basin north of Isaacks Lake; underlain by Camp Rice fluvial sand and gravel

SYMBOLS

Contact zone of fluvial and piedmont facies of Camp Rice Formation

Robledo fault zone; dotted line shows approximate position where buried by younger deposits; ball on downthrown side

Study area



compiled by J. W. Hawley, 1981