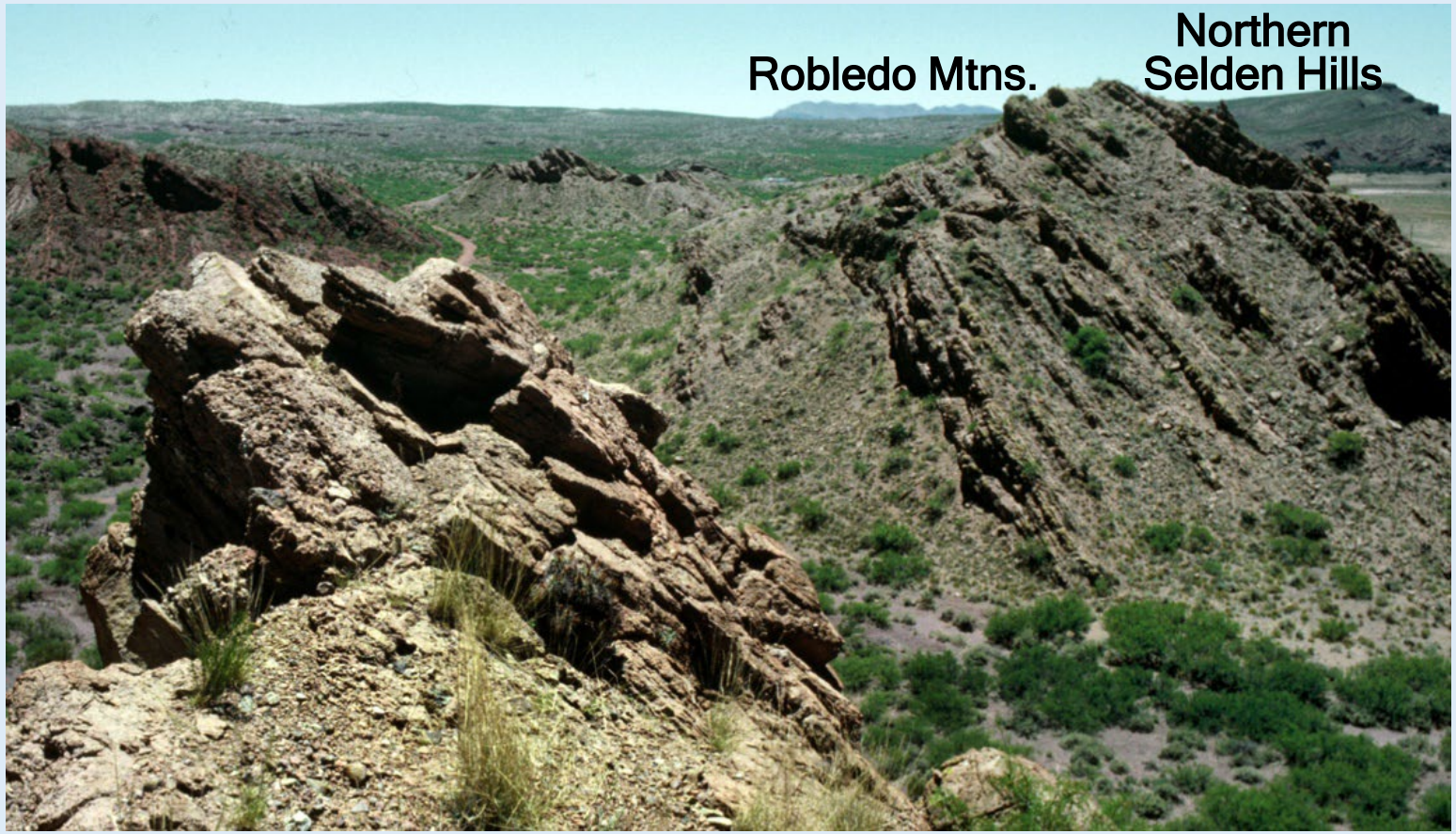
Part F5—Plates F5-1 to F5-5 Series. Representative Hydrostratigraphic Units (HSUs) and Lithofacies Assemblages (LFAs) in Santa Fe Group (SFG) Basin-Fill Deposits

Plates F5-1a and F5-1b. Representative Exposures of the Lower SFG-Hayner Ranch Formation (HSU-LSF, LFAs 7 and 8) in the Eastern Rincon Valley Area

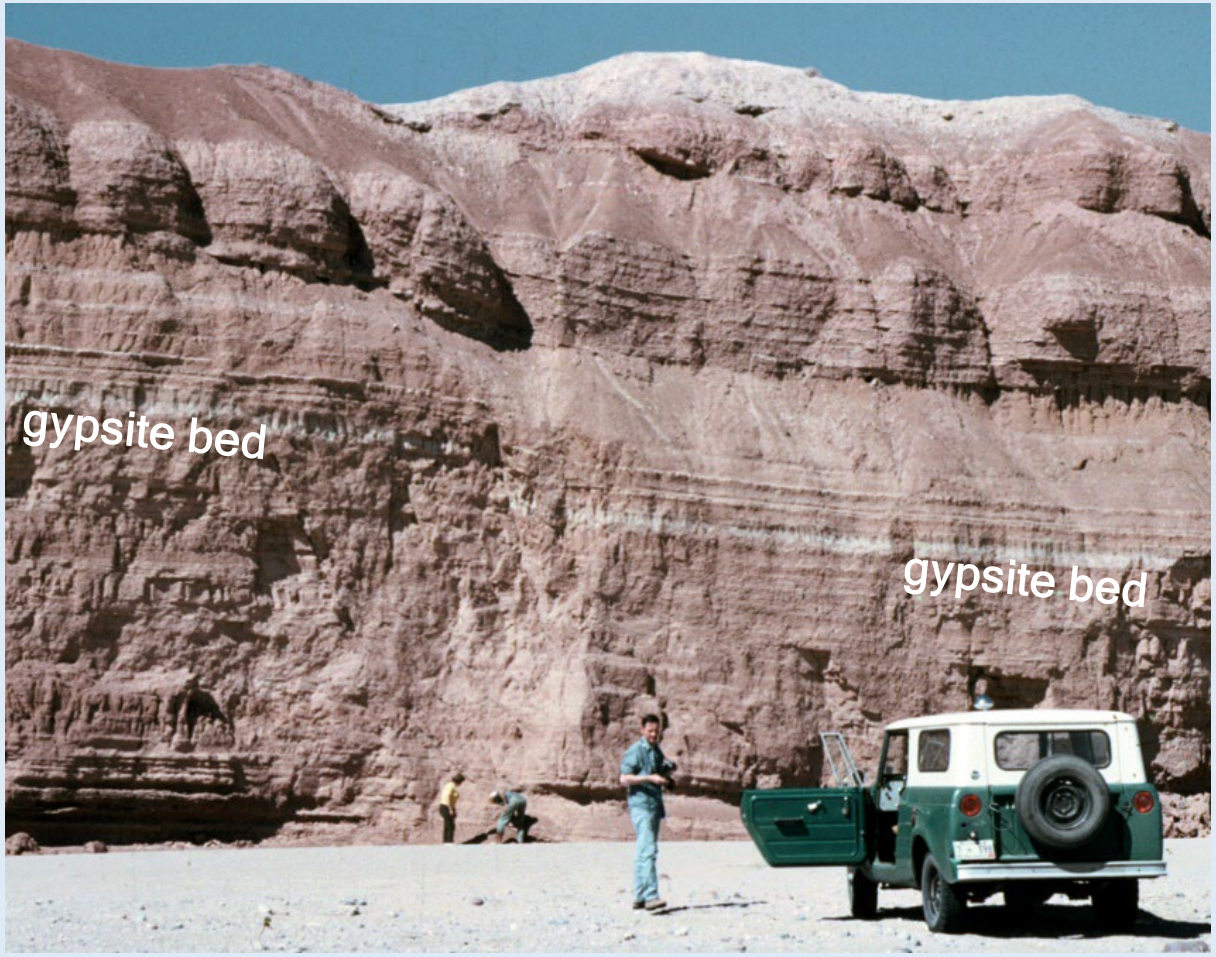
Pl. F5-1a (NM BMMR; 5/23/1988). View to S across the East Tonuco Corridor (ETNC), with steeply dipping conglomeratic sandstones of the "Type" Hayner Ranch Fm (HSU-LSF, LFAs 7 and 8) in the foreground. The Robledo Mtns. and northern Selden Hills are on the skyline. *See* Pl. F5-2c



PL. F5-1b (USDA-SCS; 4/1965). Johnson Springs Arroyo exposure of S-dipping conglomerate beds near base of the Hayner Ranch Fm (HSU-LSF, LFA 8). Photo site about 3 mi (4.8 km) NE of Hatch at SW edge of the Rincon Hills

Plates F5-2a to F5-2f. Representative Exposures of Middle SFG Hydrostratigraphic Unit (HSU-MSF) and its Lithofacies Assemblages (LFAs) in the Southern Palomas Basin and Northern Selden Canyon Areas

Pl. F5-2a (USDA-SCS; Spring 1969). Gypsiferous Rincon Valley Fm mudstone beds in the (MSF2, LFA 10) exposed in N wall of Arroyo Cuervo in SE Palomas Basin, about 10 mi (16 km) NW of Hatch. Note minor compaction deformation.

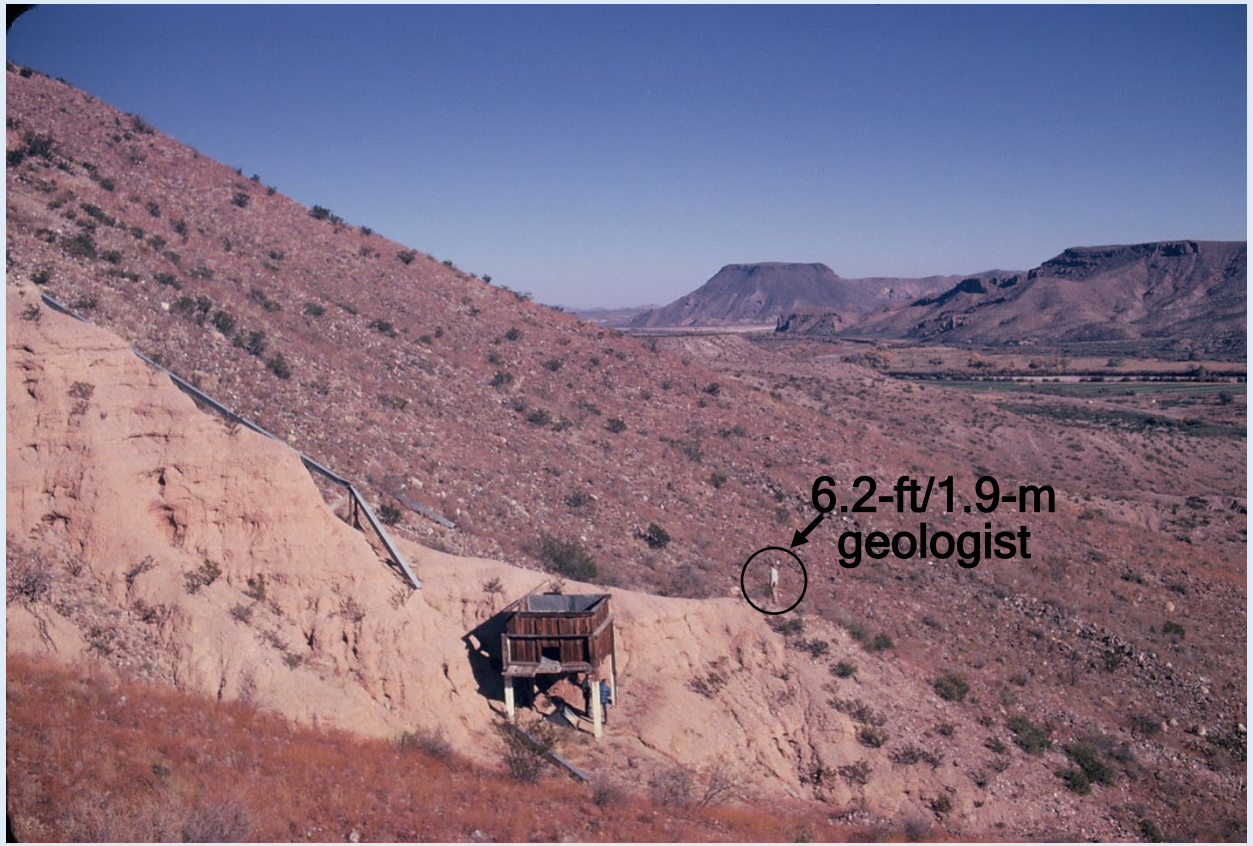


Pl. F5-2b (NM BMMR; 4/8/1981). I-25 roadcut exposure of W-dipping gypsiferous mudstone beds (w/ small-scale fault offsets) in "type-area" of the Rincon Valley Fm (HSU-MSF2, LFA 10). The Rincon Hills are on the NE skyline. Photo site is between I-25 MPs-36 and 37

Pl. F5-2c (USDA-SCS; Summer 1968). Exposures of interbedded sandstone and mudstone of the Rincon Valley Fm (HSU-MSF 2,,LFAs 3 and 9) in the East Tonuco Corridor between the lower Rincon Valley and Southern Jornada Basins. The Tonuco Uplift is on the northern skyline

Pl. F5-2d (USDA-SCS; 4/1965). Tongue of Selden Basalt (~9.5 Ma) in conglomeratic-mudstone of the Middle SFG-Rincon Valley Fm (MSF1, LFA 7) exposed in NW wall of lower Broad Canyon. Photo site is about 0.5 mi (0.8 km) SW of northern Selden Canyon

Pl. F5-2e (USDA-SCS; 1972). View from upper Selden Canyon rim, with San Diego Mtn. and the northern Selden Hills on the NE skyline. Exposure of the Middle SFG-Hayner Ranch Fm pebbly mudstone (MSF1-*LFA 5*) on the eastern slope of Ash Mine Mesa (*see* PLS. F4-1c and F5-2f).



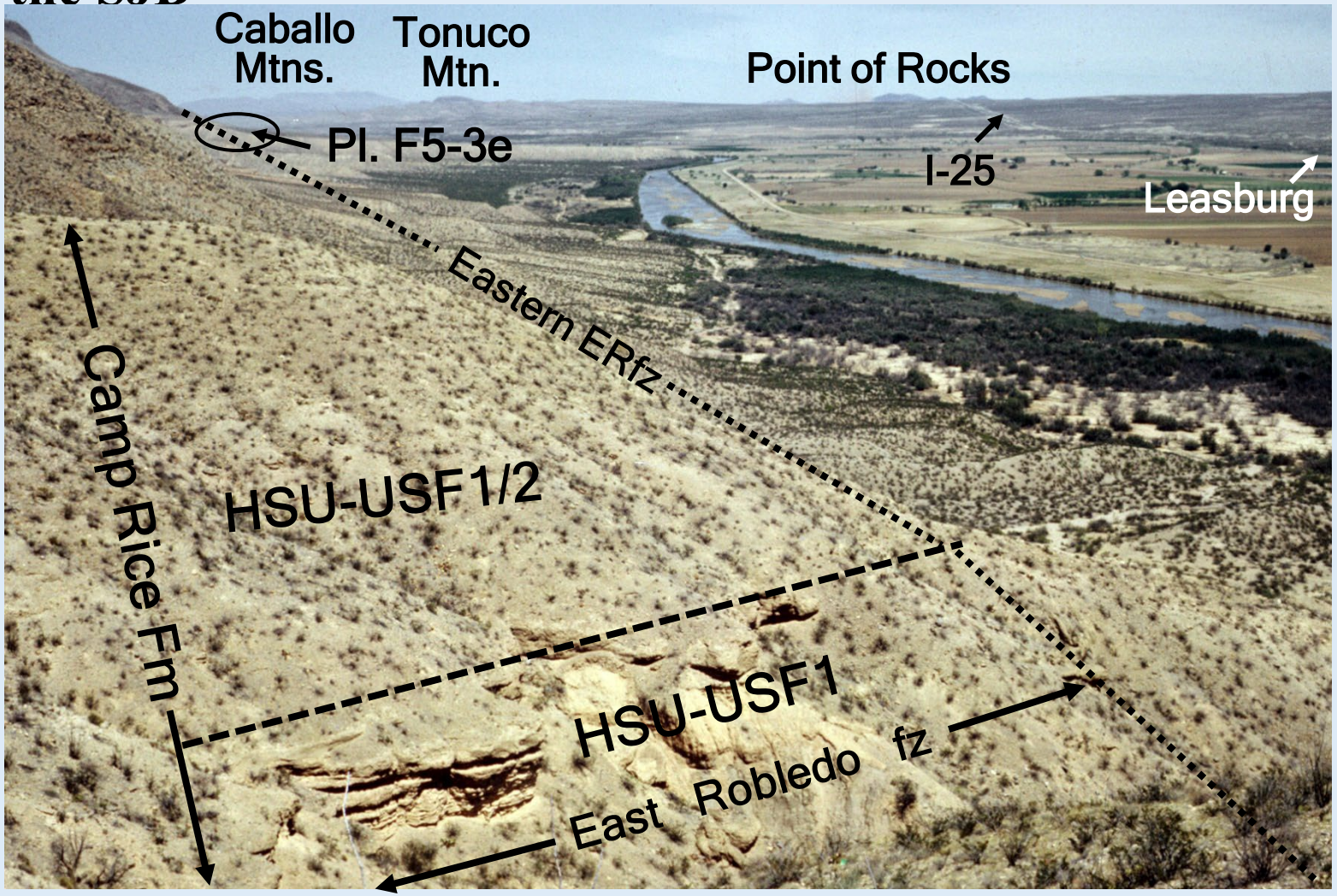
Pl. F5-2f (USDA-SCS; Spring 1972). Sediment and paleo-mag sampling of Middle SFG-Rincon Valley Fm exposure at Ash Mine Mesa site (Pl. F5-1e; *see* Pls. F4-1d, F5-2b and F7-2d)

Plates F5-3a to F5-3f (Slides 97 to 105). Representative Exposures of the Upper SFG Palomas and Camp Rice Fms in the Palomas and Mesilla Basin Areas (HSU USF)

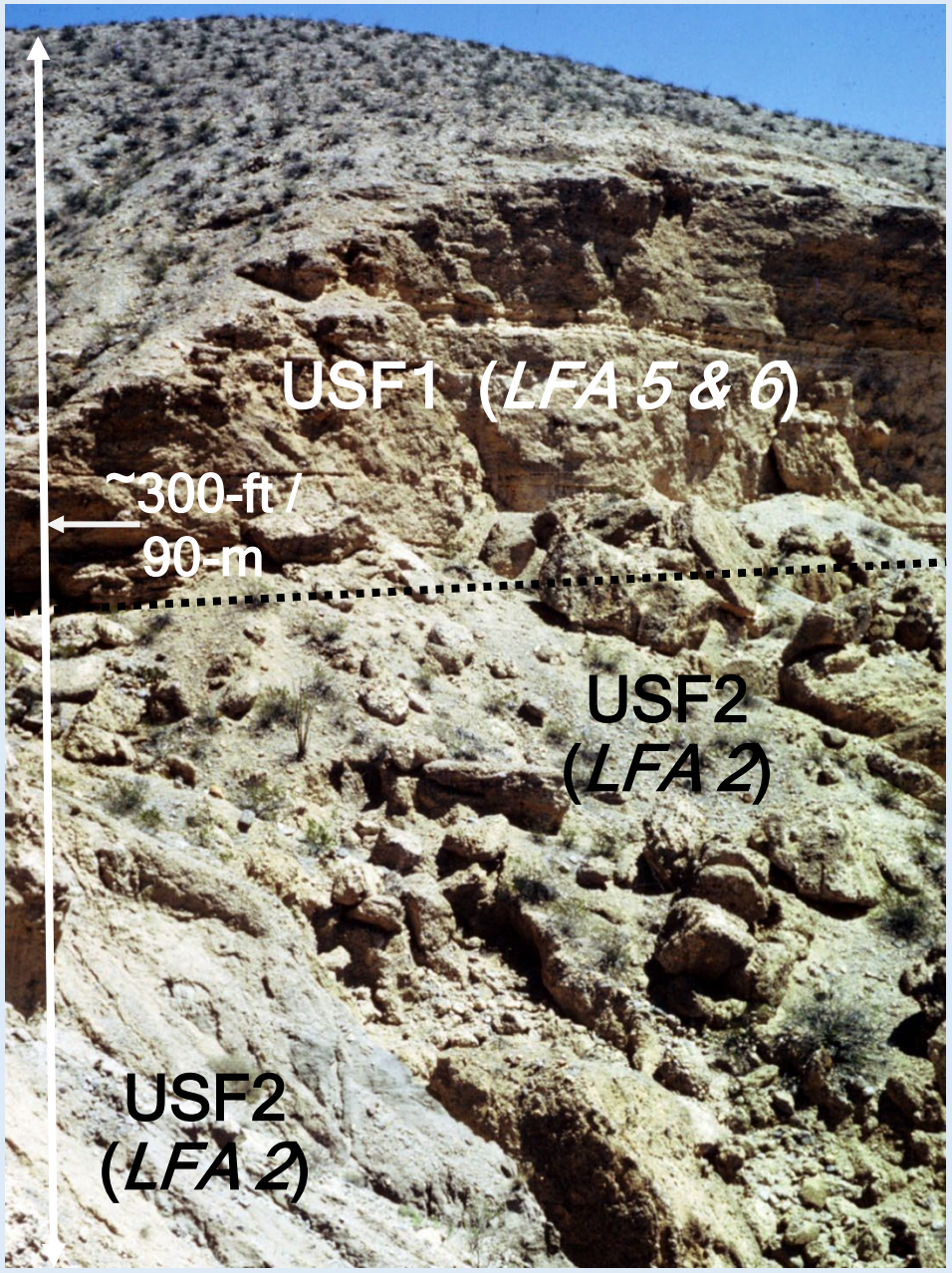
Pl. F5-3a (NM WRRI; 3/10/2016). Palomas Fm piedmont facies (USF1/ LFA 5) exposed in the south wall of Percha Creek Valley about 6 mi (10 km) west of Caballo Dam. General southern Palomas Basin setting in Pl. F3-2b; and details of outcrop behind geologist Dan Koning in Pl. F5-3b

Pl. F5-3b (NM WRRI; 3/10/2016). Percha Creek recharging the Palomas Fm-piedmont facies aquifer (USF1, LFA 5). Southern Palomas Basin about 6 mi (10 km) west of Caballo Dam (*see* Pl. F5-3a)

Pl. F5-3c (USDA-SCS; Spring 1968). View across Upper Mesilla Valley from the western edge of the East Robledo fault zone to the Experimental Range Subbasin of the SJB

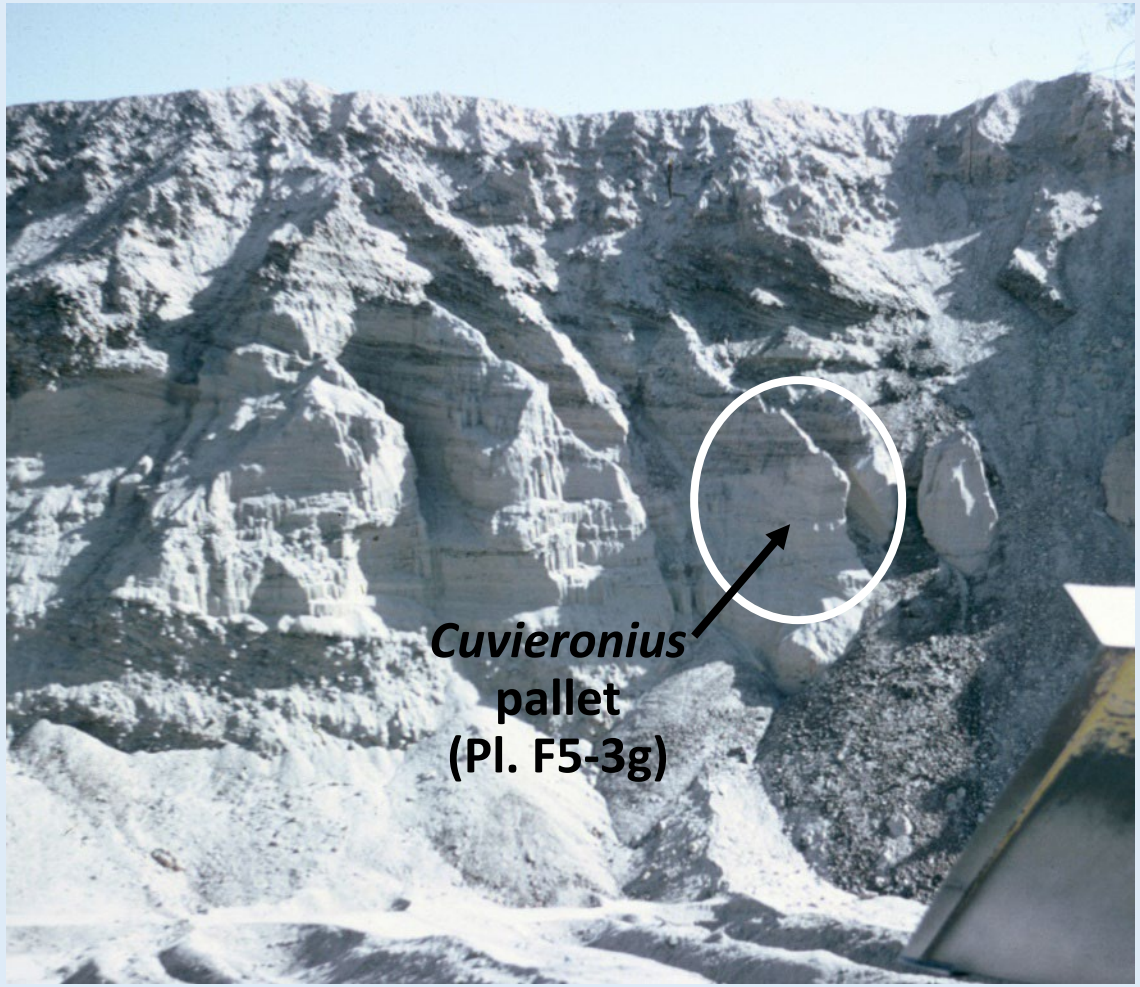


Pl. F5-3d (USDA-SCS; Spring 1968; photo-site location on Pl. F5-3e). Upper SFG Camp Rice Fm (HSU-USF) exposed on hanging wall of ERfz at base of the northern Robledo Mtns. Partly indurated fan-piedmont deposits (USF1, LFAs 5 and 6) conformably overlie pebbly-sand ARG channel facies (USF2, LFA 2)



Pl. F5-3e (USDA-SCS; April 1965). Basal Upper SFG-Camp Rice Fm (USF2/USF1) Exposed at Head of Faulkner Cyn. Arroyo in the NE Corralitos Ranch Subbasin of the Cedar-Corralitos Upland Basin. Rock hammer is at contact between USF2 (ARG) facies sandstone, and Robledo Mtn.-source USF1 fanglomerate (LFA 8)

Pl. F5-3f (USDA-SCS; 12/1965). Sand & gravel-pit exposure of Upper SFG Camp Rice Fm-ARG channel facies (USF2, LFA 2). Photo site on eastern Mesilla Valley border north of Tortugas Mtn. *See* Pls. F3-2c and F5-3g



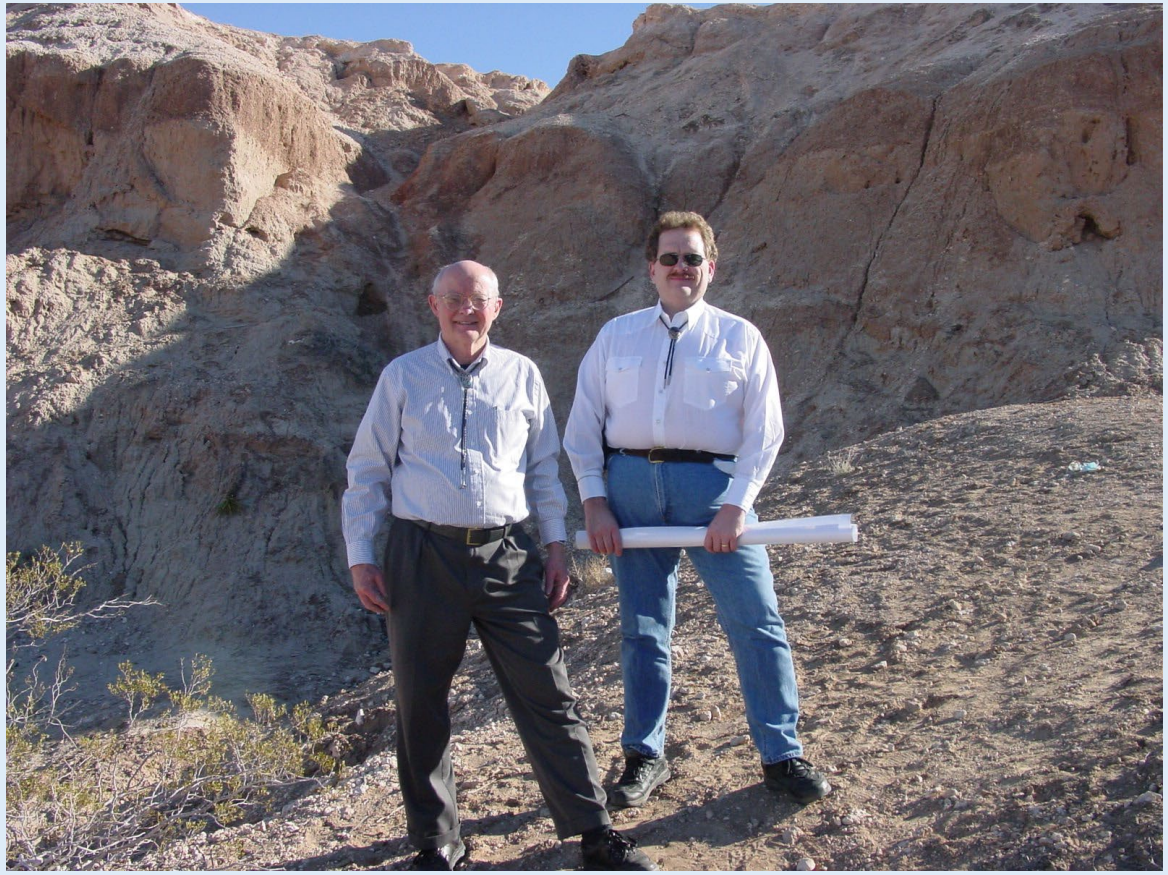
Pl. F5-3g (USDA-SCS; 12/1965). Upper pallet of the Early Pleistocene mastodont *Cuvieronius* collected from the Inman Sand & Gravel Pit site shown in Pl. F5-3f

Pl. F5-3h; 5/22/2007). Upper SFG Camp Rice Fm-ARG channel facies (USF2, LFA 1) on western Mesilla Valley rim near the NMSU Lower La Mesa trench site (PL. F7-1e). Southern Organ Mtns., Bishop Cap, and Fillmore Pass, are on the southeastern Skyline

Pl. F5-3i (USDA-SCS; 10/1971). Upper SFG Camp Rice Fm piedmont-alluvial facies (USF1, LFA 6) exposed in fan-head trench in the western Soledad Canyon section of the Central Organ Mtns. See Pl. F3-2c for photo-site location

Plates F5-4a and F5-4b (Slides 107 and 108). Exposures of Basin-Floor Lithofacies Assemblages *LFA-3* and *LFA-10* in Camp Rice and Fort Hancock Fm (HSU-USF2) in the Hueco Bolson Area

Pl. F5-4a (UACJ; 1/14/2003). SW Hueco Bolson mesa-rim exposure of sandy Upper SFG-Camp Rice Fm of mixed fluvial and eolian origin (USF2, LFA 3). John Hawley and John Kennedy at Pan-American Hwy. site, about 10 km South of the Cd. Juarez Airport. *See* Pl. F7-1f for "mesa-caprock" petrocalcic-soil detail



Pl. F5-4b (NM BMMR; 3/26/1994). Gypsiferous lacustrine facies of the Fort Hancock Fm (USF2, LFA 3/10) exposed in lower Nealy Cyn. White layer is an altered volcanic ash-fall bed of probable early- to mid-Pliocene age. Photo site is about 1 mi (1.6 km) from the Rio Grande/Bravo, and 4 mi (6.4 km) SSE of the Fort Quitman Gaging Station (Pl. F1-4). *See* Gustavson (1991, Fig. 14)

Plates F5-5a and F5-5b (Slides 110 and 111). Exposures of Upper SFG Hydrostratigraphic Units (USF2) and Basin-Floor Lithofacies Assemblages (LFAs) in the Northern Bolsón de Los Muertos Area

Pl. F5-5a (NM WRRI; 6/5/2009). Gravel-pit exposure of ancestral Rio Casas Grandes channel deposits (USF2, LFA 1) capped by petrocalcic soil. Photo site NE of Mex. Fed. Hwy. 2 - Palomas Hwy. junction at Seis de Enero [Los Trios] (Pls. F2-3 and F2-4)

Pl. F5-5b (NM WRRI; 6/5/2009). Ancestral Rio Mimbres fluvial-deltaic deposits (USF2, LFA 2 and 3) exposed in NE rim of the El Barreal ephemeral (playa)-lake plain in the background. The Mex. Hwy. 2 photo site about 5 mi (8 km) WNW of Rancho La Laguna (*see* Pl. F2-4)