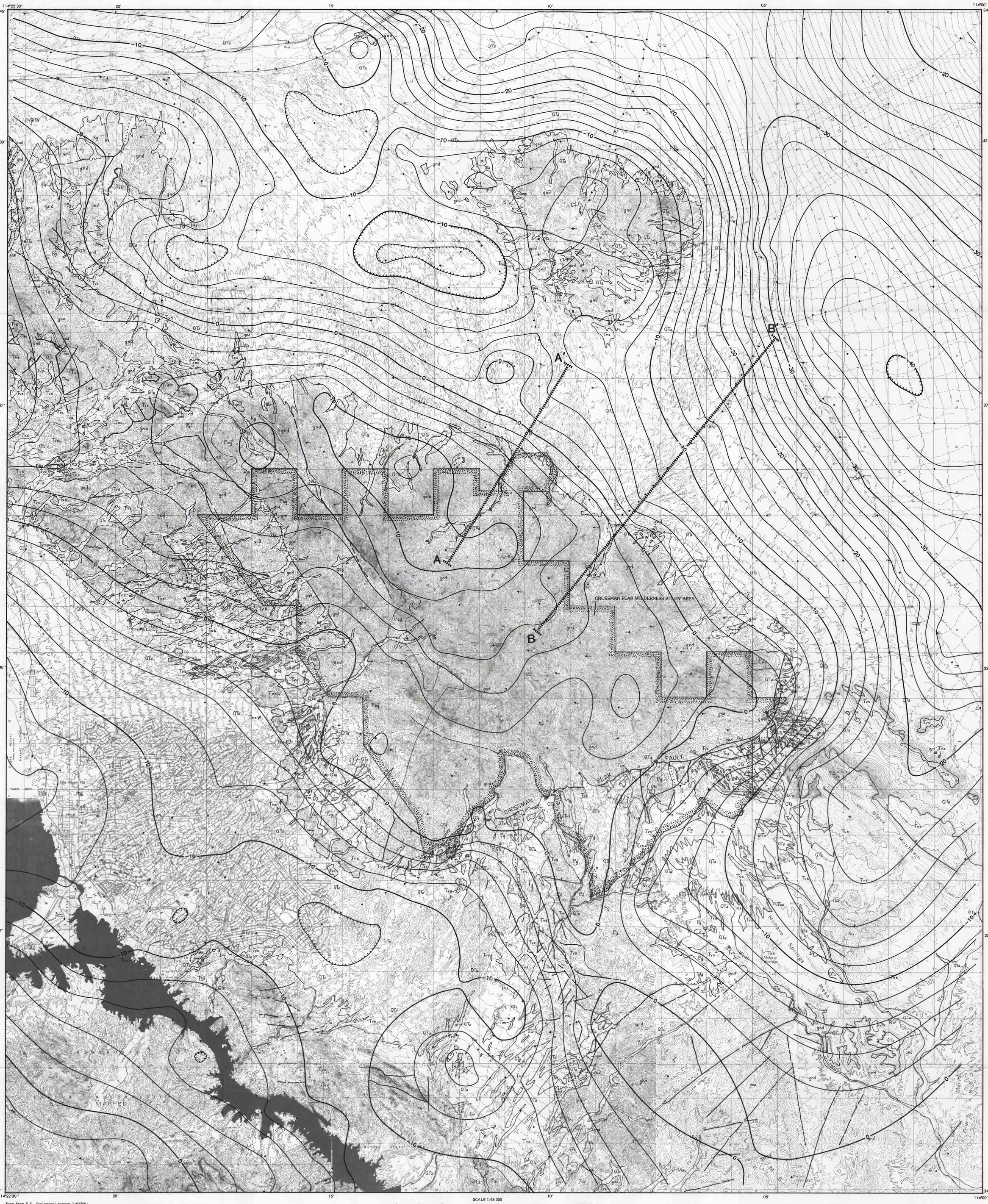

Base from U.S. Geological Survey 1:62500: Parker Dam, 1959. 1:24000: Standard Wash, 1959; Buck Mountains, Buck Mountains NE, Buck Mountains SE, Crossman Peak, Franconia, Lake Havasu City North, 1970; Lake Havasu City South, 1975

SCALE 1:48 000

1 ½ 0 1 2 3 MILES

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 40 AND 80 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

TRUE NORTH
MAGNETIC NORTH
13½°
APPROXIMATE MEAN DECLINATION, 1986

ARIZONA
AREA OF MAP

Geology mapped by K.A. Howard, J.E. Pike, and J.K. Nakata, 1980-82; H.G. Wilson and S.L. Reneau, 1981-82; E.E. John and D.M. Peterson, 1980-81; and J.W. Goodge and V.L. Hansen, 1981

EXPLANATION

ISOSTATIC RESIDUAL GRAVITY CONTOURS--Hachures indicate closed areas of lower gravity values. Contour interval 2 mGals

GRAVITY STATION

A—A' GRAVITY PROFILE--See text figures 3 and 4 and discussion in pamphlet

CORRELATION OF MAP UNITS

QTa		QUATERNARY AND TERTIARY
Tvs	Miocene	TERTIARY
Kg		CRETACEOUS(?)
gnd		TERTIARY AND PROTEROZOIC
Pg, Pag		PROTEROZOIC

DESCRIPTION OF MAP UNITS

QTa	ALLUVIUM (QUATERNARY AND TERTIARY) - - Includes talus deposits on Black Mountain
Tvs	VOLCANIC AND SEDIMENTARY ROCKS (MIOCENE) - - Flows, breccia, and tuff of silicic to basaltic composition; fanglomerate, conglomerate, sandstone, and claystone
Kg	GRANITE AND DIORITE (CRETACEOUS?)
Pg	GRANITOID ROCKS (PROTEROZOIC) - - Porphyritic and equigranular granite and quartz monzodiorite
Pag	AUGEN GNEISS (PROTEROZOIC) - - Granite to granodiorite composition. Gradational to porphyritic granite of the granitoid rocks unit
gnd	GNEISS AND DIKES (TERTIARY AND PROTEROZOIC) - - Garnet granite gneiss, amphibolite, biotite granite gneiss, pegmatite, and rare pelitic gneiss and quartzite, of Proterozoic age, all intruded by a dense swarm of northwest-striking felsic and mafic dikes of Tertiary age

CONTACT - - Dashed where approximately located

FAULT - - Dashed where approximately located; dotted where concealed; hachures on upper plate of detachment fault. Bar and ball on downthrown side

ISOSTATIC RESIDUAL GRAVITY MAP

AEROMAGNETIC AND ISOSTATIC GRAVITY MAPS OF THE CROSSMAN PEAK WILDERNESS STUDY AREA, MOHAVE COUNTY, ARIZONA

By

Robert W. Simpson, Thomas B. Gage, and Robert E. Bracken

1986