EXPLANATION

DESCRIPTION OF GEOLOGIC UNITS

QTa — UNCONSOLIDATED DEPOSITS--Unconsolidated to highly indurated sand, silt, clay, and gravel. Amount of induration increases with age and depth of deposits. Deposits range in age from Holocene to Pliocene. These deposits yield small to large (1 to 1,200 gallons per minute) quantities of water to wells, depending upon the type of deposits encountered — QUATERNARY AND TERTIARY

pQr — CONSOLIDATED ROCK--Consolidated rocks are composed of rhyolite, andesite, basalt, limestone, dolomite, granite, tonalite, diorite, gneiss, quartz monzonite, and schist. These rocks range in age between Tertiary and pre-Cambrian. Yields small quantities of water to wells and springs where rocks are highly fractured — PRE-QUATERNARY

MAP SYMBOLS

GEOLOGIC CONTACT--Dashed where approximately located

FAULT--Approximately located

SURFACE-WATER DRAINAGE DIVIDE

GROUND-WATER DRAINAGE DIVIDE

DIRECTION OF GROUND-WATER MOVEMENT

4900 — WATER-LEVEL CONTOURS, 1981--Show altitude of water level, in feet, approximately located. Contour interval variable. National Geodetic Vertical Datum of 1929

WELL AND NUMBER

2P1 — Domestic, stock, or unused

15Q1 — Dry or destroyed

SPRING AND NUMBER

9NS1 — Flowing

28JS2 — Dry

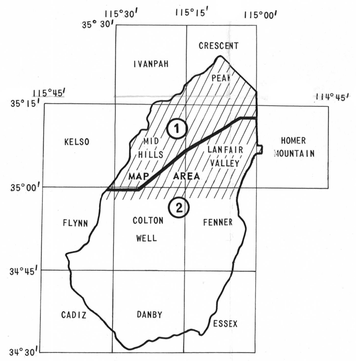
10252550 — SURFACE-WATER GAGING SITE--Number indicates continuous recording gage. No number indicates intermittent measurements

WELL- AND SPRING-NUMBERING SYSTEM

Letter after well or spring indicates position in section, thus:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

For a complete description of System, see text



INDEX TO TOPOGRAPHIC QUADRANGLES AND GEOLOGIC MAPPING

Compiled by:

1. California Division of Mines and Geology. Modified by W. R. Moyle, Jr, 1981 (unpublished)
2. Southern Pacific Land Co. (1959-60)

1 ½ 0 1 2 3 4 MILES

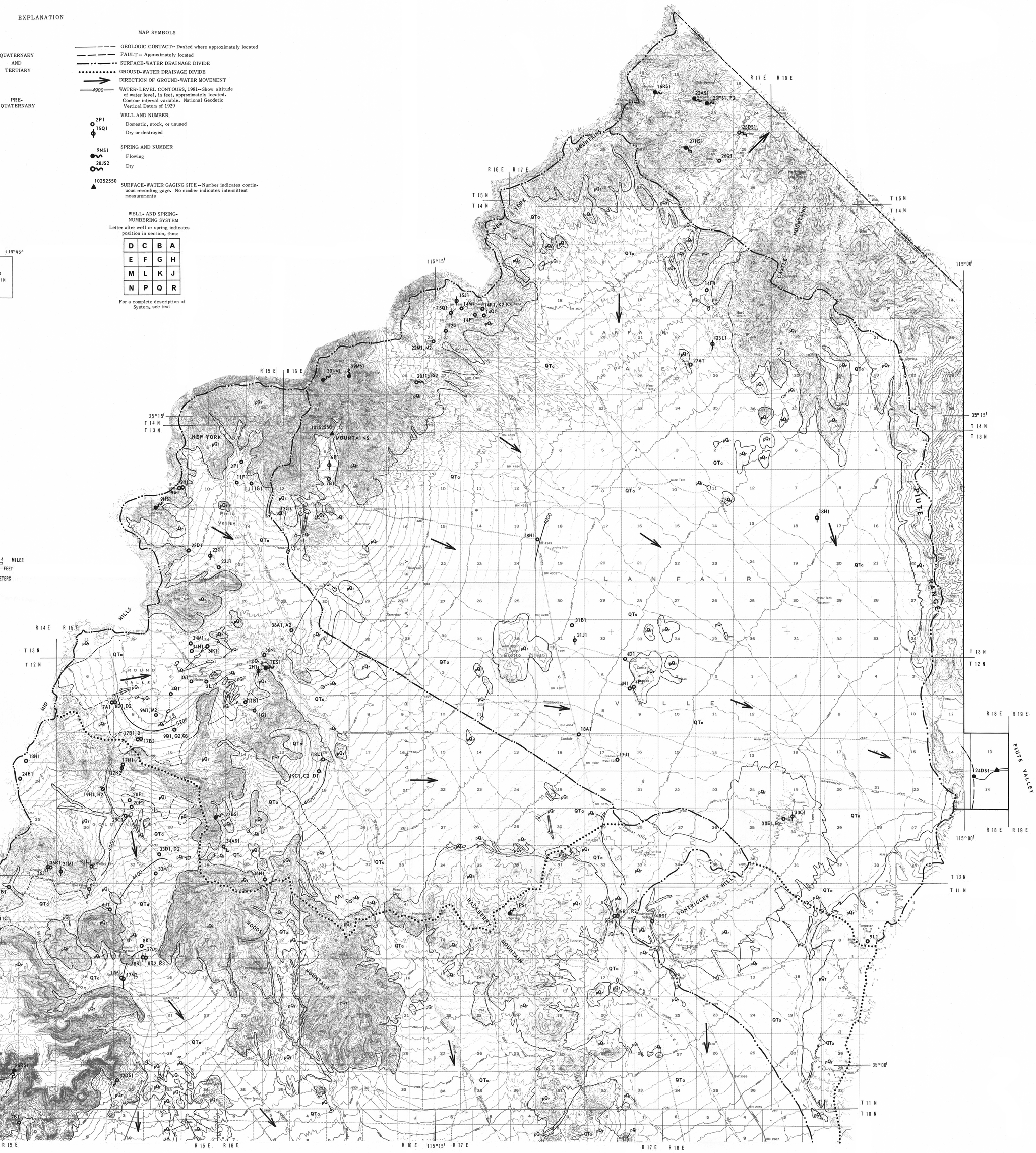
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 ½ 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

15½°
TRUE NORTH
MAGNETIC NORTH

APPROXIMATE MEAN DECLINATION, 1956



GENERALIZED GEOLOGIC MAP OF LANFAIR VALLEY AND VICINITY, SAN BERNARDINO COUNTY, CALIFORNIA, SHOWING DIRECTION OF GROUND-WATER MOVEMENT, WATER-LEVEL CONTOURS, AND LOCATION OF WELLS, SPRINGS, AND SURFACE-WATER GAGING SITES

Base from U.S. Geological Survey 15-minute topographic quadrangles, scale 1:62,500

Location of wells and springs by J. D. Horne, John Van Den Bergh, and D. A. Freiwald, 1982