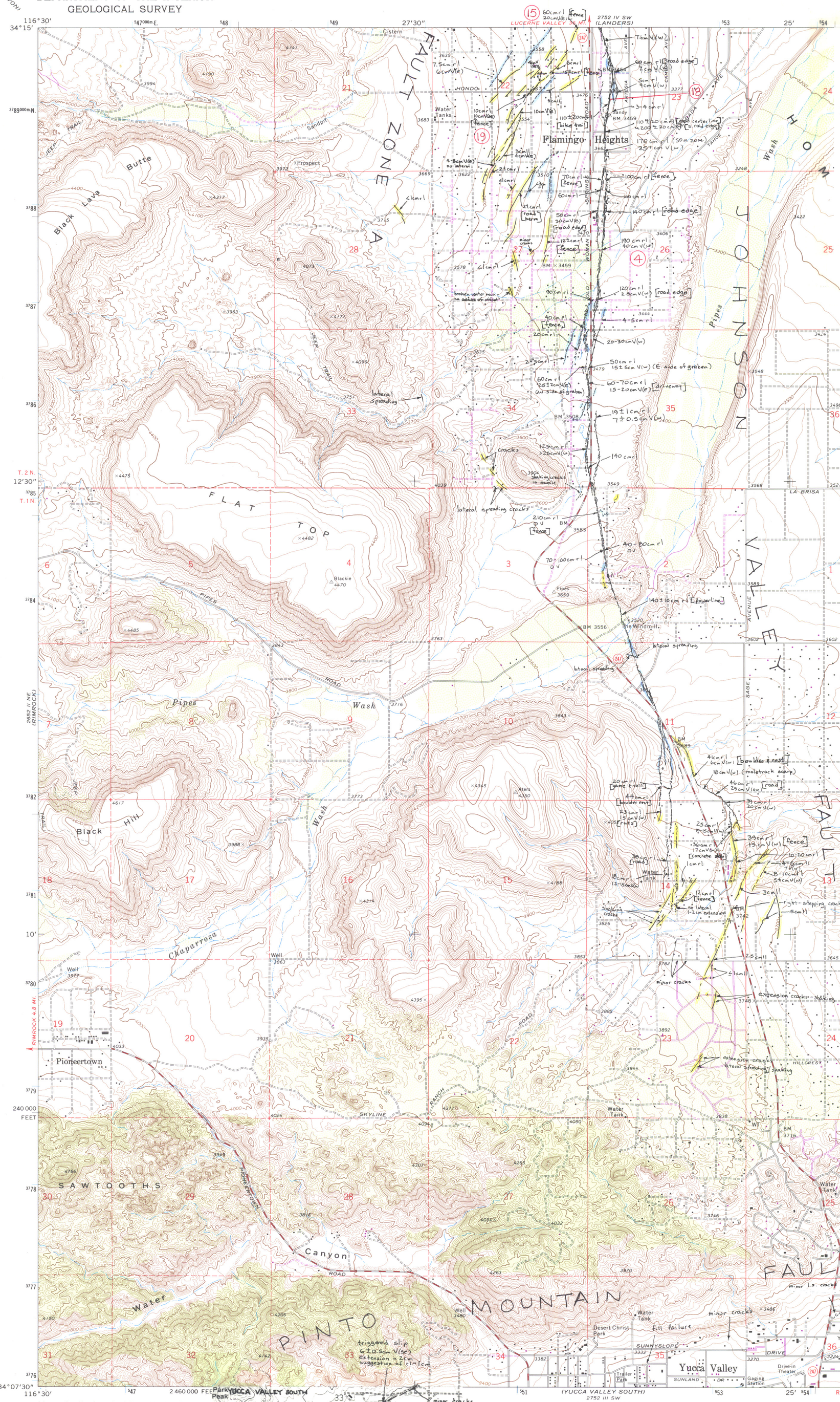
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

YUCCA VALLEY NORTH QUADRANGLE
CALIFORNIA—SAN BERNARDINO CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 JOSHUA TREE 15' QUADRANGLE



MAP EXPLANATION

1992 fault rupture traces mapped by Bryant (this report), based on interpretation of 1:6,000 scale aerial photos taken just after the Landers earthquake and limited field mapping. Lengths and patterns of individual fault ruptures are reproduced as faithfully as possible at 1:24,000 scale.

1992 fault rupture mapped by US Geological Survey, based on field mapping immediately after the Landers earthquake. Most of the traces mapped by USGS correspond to traces mapped by Bryant (this report) and are not shown.

1992 fault rupture mapped by Division of Mines and Geology (other than those traces mapped by Bryant, this report) and other contributors (source annotated next to trace), based on field mapping immediately after the Landers earthquake.

Displacement data measured in field. All measurements are in centimeters.

280cm rl
20cm V(w)
[fence]

rl = right-lateral component of horizontal displacement.
ll = left-lateral component of horizontal displacement.
ls = left-stepping en echelon cracks.
rs = right-stepping en echelon cracks.
V(w) = vertical component of displacement; letter in parentheses indicates which side is down.
[fence] = feature used to measure horizontal displacement.

(2) Locality referred to in text.

Figure 3a (to FER-234). Surface fault rupture associated with the 28 June 1992 M_s 7.5 Landers earthquake in the Yucca Valley North 7.5-minute quadrangle. Ruptures are based on mapping by DMG, USGS, and other geologists from 6-28-92 to 7-19-92 and aerial photographic interpretation by Bryant (this report).

Mapped, edited, and published by the Geological Survey in cooperation with California Department of Water Resources

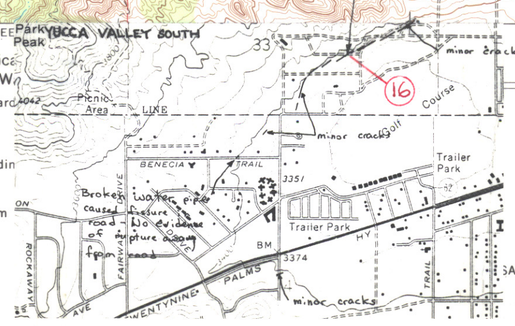
Control by USGS, NOS/NOAA, USCE, and San Bernardino County

Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1972

Projection and 10,000-foot grid ticks: California coordinate system, zone 5 (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue. 1927 North American datum

To place on the predicted North American Datum 1983 move the projection lines 1 meter north and 80 meters east as shown by dashed corner ticks

Where omitted land lines have not been established



SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple and woodland compiled from aerial photographs taken 1976 and other source data
This information not field checked. Map edited 1979

ROAD CLASSIFICATION

Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

YUCCA VALLEY NORTH, CALIF.
NW/4 JOSHUA TREE 15' QUADRANGLE
34116-B4-TF-024

1972
PHOTOREVISED 1979
DMA 2752 III NW—SERIES V895

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1986

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