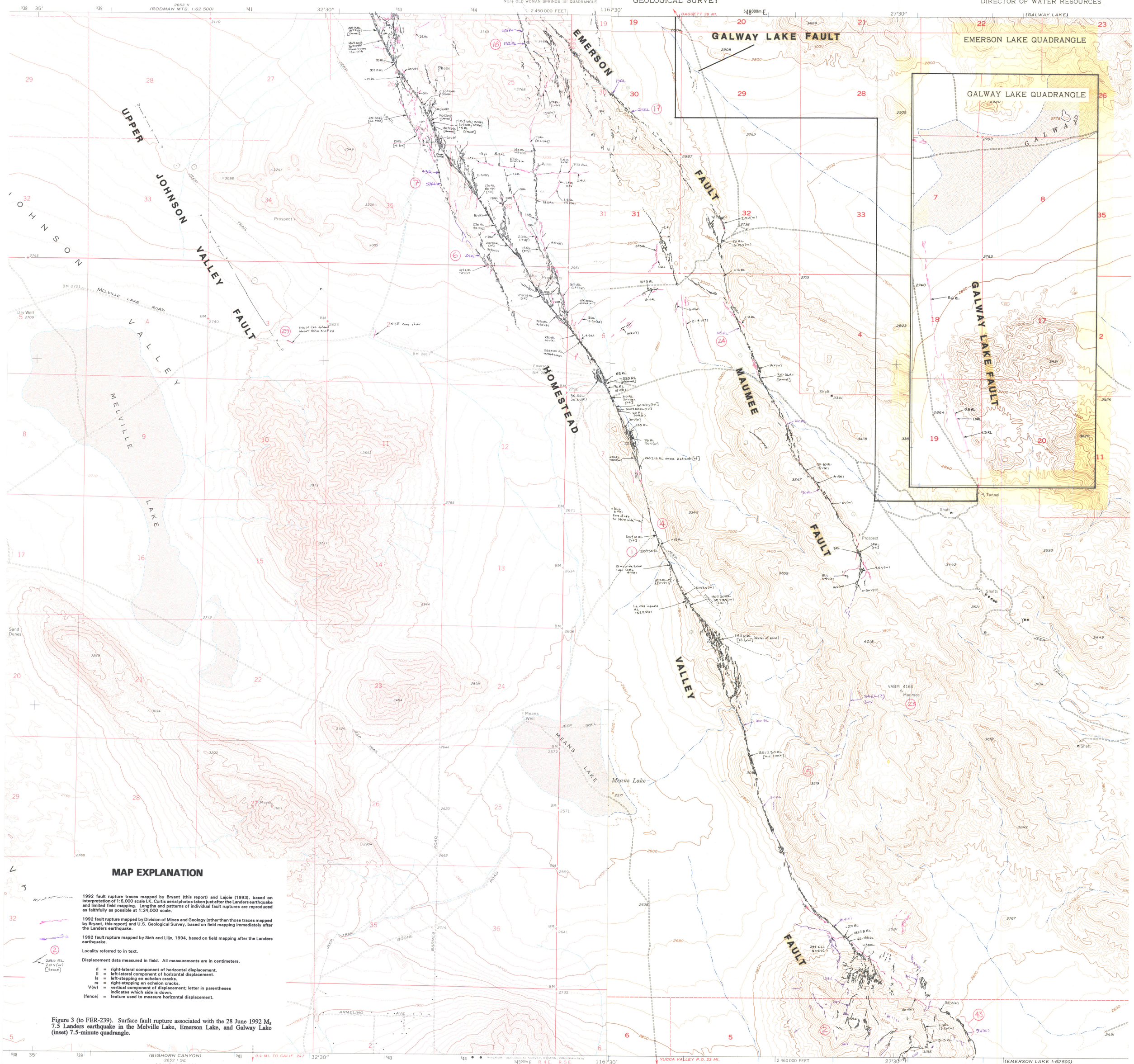
MELVILLE LAKE QUADRANGLE
CALIFORNIA—SAN BERNARDINO CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 OLD WOMAN SPRINGS 15' QUADRANGLE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF CALIFORNIA
DIRECTOR OF WATER RESOURCES



MAP EXPLANATION

1992 fault rupture traces mapped by Bryant (this report) and Lajoie (1993), based on interpretation of 1:6,000 scale I.K. Curtis 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 Division of Mines and Geology (other than those traces mapped by Bryant, this report) and U.S. Geological Survey, based on field mapping immediately after the Landers earthquake.

1992 fault rupture mapped by Sieh and Lilje, 1994, based on field mapping after the Landers earthquake.

Locality referred to in text.

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

- 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.

Figure 3 (to FER-239). Surface fault rupture associated with the 28 June 1992 M_s 7.5 Landers earthquake in the Melville Lake, Emerson Lake, and Galway Lake (inset) 7.5-minute quadrangle.

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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QUADRANGLE LOCATION

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

MELVILLE LAKE, CALIF.
NE/4 OLD WOMAN SPRINGS 15' QUADRANGLE
N3422.5—W11630/7.5

1972

AMS 2652 I NE—SERIES V895

Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1952. Field check 1954
Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 5
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue
Dashed land lines indicate approximate locations

APPROXIMATE MEAN DECLINATION, 1954

SCALE 1:24000

CONTOUR INTERVAL 40 FEET
DASHED LINES REPRESENT HALF INTERVAL CONTOURS
DATUM IS MEAN SEA LEVEL

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