STATE OF CALIFORNIA—GEORGE DEUKMEJIAN, GOVERNOR
THE RESOURCES AGENCY—GORDON K. VAN VLECK, SECRETARY
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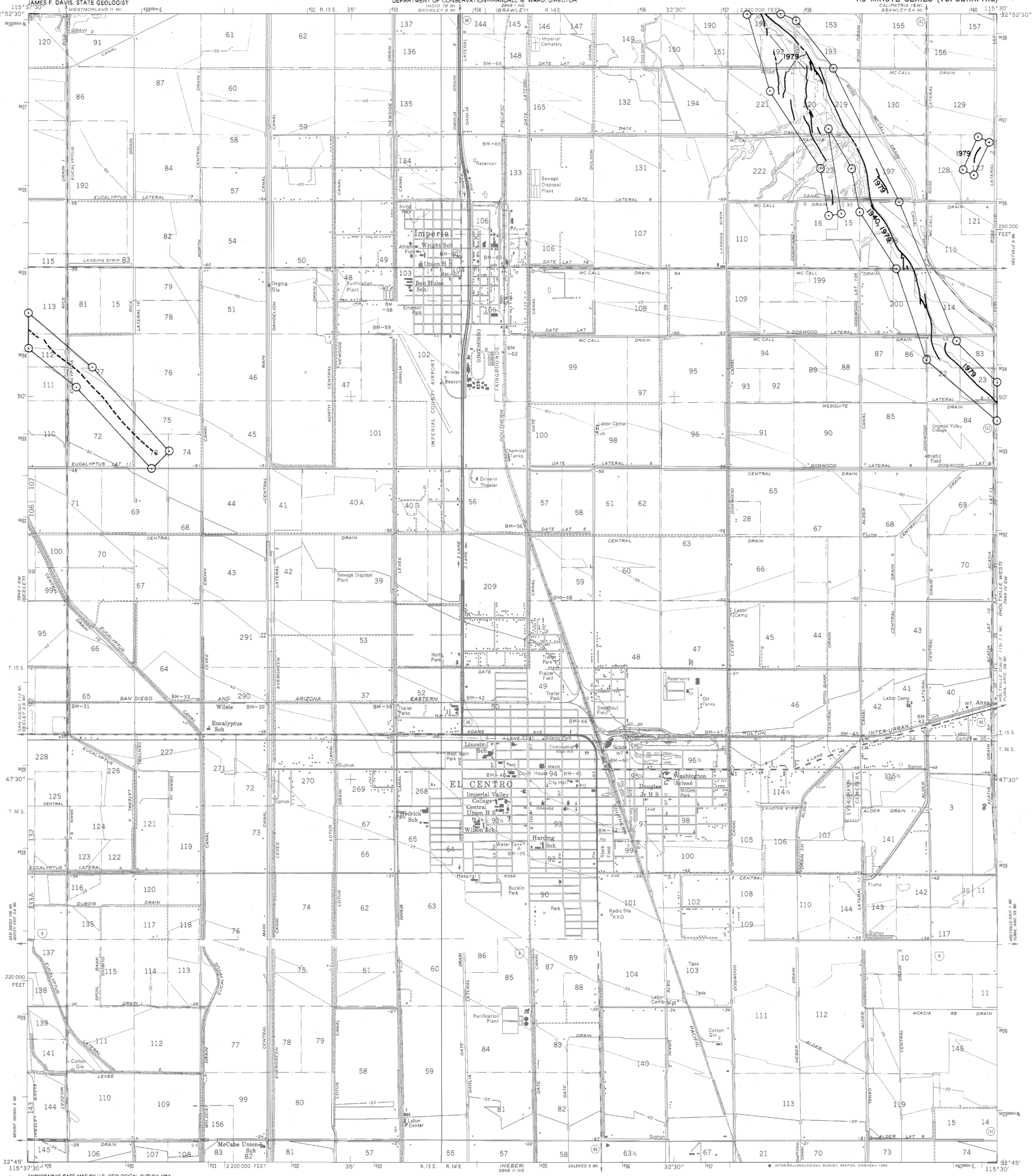
DIVISION OF MINES AND GEOLOGY
JAMES F. DAVIS, STATE GEOLOGIST

EL CENTRO QUADRANGLE
CALIFORNIA—IMPERIAL CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



TOPOGRAPHIC BASE MAP BY U.S. GEOLOGICAL SURVEY 1957
PHOTOREVISED 1979

SCALE 1:24,000
1 MILE
7000 FEET
1 KILOMETER
CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MAP EXPLANATION

Active Faults

1906 C

Faults considered to have been active during Holocene time and to have a relatively high potential for surface rupture; solid line where accurately located, long dash where approximately located, short dash where inferred, dotted where concealed; query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by creep or possible creep.

Special Studies Zone Boundaries

These are delineated as straight-line segments that connect encircled turning points so as to define special studies zone segments.

Seaward projection of zone boundary.

STATE OF CALIFORNIA
SPECIAL STUDIES ZONES
Delineated in compliance with
Chapter 7.5, Division 2 of the California Public Resources Code
(Alquist-Priolo Special Studies Zones Act)

El Centro Quadrangle

REVISED OFFICIAL MAP
Effective: January 1, 1990

James F. Davis
State Geologist

REFERENCES USED TO COMPILE FAULT DATA

El Centro Quadrangle

Hart, E.W., 1988, Imperial, Brawley, and Rico faults in Imperial County, California: Division of Mines and Geology Fault Evaluation Report FER-206 (unpublished).

Sharp, R.V., Budding, K.E., Boatwright, J., Ader, M.J., Bonilla, M.G., Clark, M.M., Fumal, T.E., Harms, K.K., Lienkaemper, J.J., Morton, D.M., O'Neill, B.J., Ostergren, C.L., Ponti, D.J., Rymer, M.J., Saxton, J.L., and Sims, J.D., 1989 (in press), Surface faulting along the Superstition Hills fault zone and nearby faults associated with the earthquakes of 24 November 1987: Bulletin of the Seismological Society of America, April 1989.

Sharp, R.V., Lienkaemper, J.J., Bonilla, M.G., Burke, D.B., Fox, B.F., Herd, D.G., Miller, D.M., Morton, D.M., Ponti, D.J., Rymer, M.J., Tinsley, J.C., Yount, J.C., Kahle, J.E., Hart, E.W., and Sieh, K.E., 1982, Surface faulting in the central Imperial Valley in The Imperial Valley, California, earthquake of October 15, 1979: U.S. Geological Survey Professional paper 1254, p. 119-143.

Treiman, J.A., 1980, Superstition Hills, Superstition Mountain, and related faults, Imperial County, California: Division of Mines and Geology Fault Evaluation Report FER-207 (unpublished).

For additional information on faults in this map area, the rationale used for zoning, and additional references consulted, refer to unpublished Fault Evaluation Reports on file at regional offices of DMG.

IMPORTANT – PLEASE NOTE

1) *This map may not show all faults that have the potential for surface fault rupture, either within the special studies zones or outside their boundaries.*
2) Faults shown are the basis for establishing the boundaries of the special studies zones.
3) The identification and location of these faults are based on the best available data. However, the quality of data used is varied. Traces have been drawn as accurately as possible at this map scale.
4) Fault information on this map is not sufficient to serve as a substitute for the geologic site investigations (special studies) required under Chapter 7.5 of Division 2 of the California Public Resources Code.