UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TWENTYNINE PALMS QUADRANGLE
CALIFORNIA—SAN BERNARDINO CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 TWENTYNINE PALMS 15' QUADRANGLE

Figure 2a (to FER-181). Faults in the Yucca Valley-Twentynine Palms study area, based on available mapping by others. Annotations are selected data from the work of others and air photo interpretation by Bryant (this report).

MAP EXPLANATION

Faults mapped by Bacheller (1978); solid, well exposed; long dashed, poorly exposed, well located; short dashed, poorly exposed, poorly located; queried, existence inferred, dotted, concealed.

Faults mapped by Bader and Moyle (1960), dashed where approximately located, dotted where concealed, queried where doubtful.

Faults mapped by Dibblee (1967, 1968a), dashed where indefinite, dotted where concealed or inferred, queried where doubtful.

Faults mapped by Grimes (1981), dashed where approximately located, dotted where concealed.

Faults mapped by Morton and others (1980), dashed where approximately located, queried where scarp is poorly defined or origin may be other than faulting. Annotations point out particularly well developed features.

Faults mapped by Wahler Associates (1984), dashed where inferred, dotted where concealed.

Locality referred to in text.

Location and orientation of trench excavation. Evidence of possible Holocene activity exposed in trench indicated in red. Location of trench less than 100 feet long indicated by x.

Key to faulted & unfaulted deposits

□ -deposit offset H -Holocene L - late Pleistocene
○ -deposit not offset Q -Quaternary b - bedrock

Wahler Assoc., 1984 (C-570)
T-6A T-6B T-6C
T-5B T-5C T-5A
T-8 T-7
T-1C T-1A T-1B
T-4D T-4B T-4C
"Airfield flt."
Cultural modified scarp
No geomorphic evidence of recent faulting.
Prominent vegetation change
Aligned straight-sided hills
Fresh-looking, NE-facing scarp in alluvium or older alluvium.
Highly eroded SW-facing scarp
Ridge not offset
graben-like feature - modified stream channel?
No geomorphic evidence of recent faulting in Holocene alluvium.
Aligned truncated spurs
SW-facing scarp in alluvium or older alluvium.
VC in Holocene alluvium - not on trend with mapped fault.
James, 1986 (C-629)
faults mapped by James, 1986 (C-629)
Aligned notches
No geomorphic evidence for recent faulting
No geomorphic evidence for recent faulting in Holocene alluvium.
MESQUITE LAKE FAULT
WEST BULLION MOUNTAIN FAULT
PINTO MOUNTAIN FAULT
QUEEN MOUNTAIN
TWENTYNINE PALMS MARINE CORPS
TWENTYNINE PALMS
North Branch
Central Branch
South Branch
SCALE 1:24 000
CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
VALLEY MTN. 15'qd. 1:62,500
See Valley Mtn. 15' qd.