DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN FILE REPORT 78-305

PLATE 8

STRUCTURE CONTOUR MAP ON TOP OF ROCKS OF MIOCENE AGE

Prepared in cooperation with California State Department of Water Resources

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.

EXPLANATION

.5(500) Contour line

Contour Interval .1 second (100 meters)
(dashed where inferred or approximately located; queried where doubtful or projected)

U / D Fault

U-Upthrown D-Downthrown
(dashed where inferred or approximately located; queried where doubtful or projected)

Trace of anticlinal axis
(dashed where inferred or approximately located)

Zone of poor acoustical reflectivity

Area where contours show top of volcanic rocks

Exploratory Oil Well

VENTURA

OXNARD

PLAIN

SANTA BARBARA CHANNEL

Pitas Point

Ventura River

Saticoy

Santa Clara River

See Plate 4 -Generalized Onshore Stratigraphic Cross-section

2743m. (3.0 sec) top Santa Margarita Fm.

2377m. (2.6 sec.) top Santa Margarita Fm.

2103m. (2.3 sec.) top Santa Margarita and Monterey Fms.

732 m. (.8 sec.) top Monterey Fm.

430 m. (.47 sec.) top Conejo Volcanics.

Ventura Shelf

Santa Barbara Basin

Port Hueneme

Hueneme Canyon

Hueneme-Mugu Shelf

Mugu Lagoon

Point Mugu

Mugu Canyon

Santa Monica Mountains

Anacapa Shelf

Anacapa Ridge

Anacapa Islands

2.5(2500) 2.0(2000) 1.7(1700) 1.5(1500) 1.0(1000) .7(700) .5(500) .2(200)

True North 15.5° Magnetic North

Scale – 1: 62,500

2 Statute Miles
2 Nautical Miles
2 Kilometers

34°20'
34°10'
34°00'
119°30'
119°20'
119°10'
119°00'

Topographic base modified from U.S. Geological Survey, 7.5 minute quadrangle series: Camarillo 1950, Oxnard 1950, Pitas Point 1950, Point Mugu 1949, Santa Paula 1951, Saticoy 1951, Ventura 1951, scale 1:24,000, and U.S. Coast and Geodetic Survey Chart 5114, Anacapa Passage 1967, scale 1:250,000.
Bathymetry modified from U.S. Coast and Geodetic Survey Chart 1206N-16, Santa Barbara to Huntington Beach 1968, from soundings made by the USGS, 1970.