

CalESCO

## CALIFORNIA EARTH SCIENCE CORPORATION

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Fault Tectonics and Earthquake Hazards in the Peninsular  
Ranges, Southern California, EREP investigation 463

NASA, Ames Research Center  
Mail Code 241-1  
Moffett Field, CA 94035

Attention: Mr. Gabriel Fox  
Contracting Officer

Gentlemen:

California Earth Science Corporation (CalESCO) is pleased to submit its 12th  
Monthly Progress Report on the application of Skylab imagery to analysis of  
fault tectonics and earthquake hazards in the Peninsular Ranges, southern  
California under NASA Contract No. NAS 2-7698.

Summary Outlook

The principal plans for the immediate future are to continue analysis of images  
from SL1/SL2 and SL3. The milestone plan provides a time-oriented schedule of  
the entire effort to be performed.

Significant Progress

1. SO-192 data from SL3 and SL4 was requested.
2. Simple test images for comparing pseudocolor with black and white images were generated.
3. Field work was continued on the Thing Valley fault. Exposures of the fault were traced across the Tierra Blanca Mountains. The fault is believed to extend in a northeast direction for about 15 miles.
4. Field work was initiated on prominent east-west lineaments seen on 190-B images north of Warner Springs, San Diego and Riverside Counties.
5. A systematic program of measuring faults in road cuts throughout the Peninsular Ranges was continued. Ninety-eight strikes and 37 rakes of striations have been measured to date.

(E74-10565) FAULT TECTONICS AND  
EARTHQUAKE HAZARDS IN THE PENINSULAR  
RANGES, SOUTHERN CALIFORNIA Monthly  
Progress (California Earth Science Corp.,  
Santa Monica.) 2 p HC \$4.00 CSCI 08G  
G3/13 00565 Unclas  
N74-27776

Expected Accomplishments, Current Month

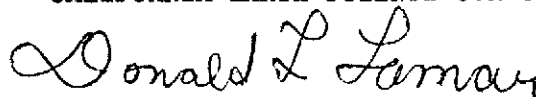
1. Evaluation of the photo interpretation test given to 35 students at UCLA will be completed.
2. Field work on prominent lineations seen in 190-B images of the eastern Peninsular Ranges will be continued.

Travel Summary and Plans

A paper on structural lineaments in the Peninsular Ranges will be presented at the First International Conference on the New Basement Tectonics in Salt Lake City, June 3-7.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORPORATION



Donald L. Lamar  
Co-Principal Investigator

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