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CalESCO

CALIFORNIA EARTH SCIENCE CORPORATION

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July 5, 1975

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Contract NAS 2-7698  
MONTHLY PROGRESS REPORT NO. 25  
June 1975

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

NASA-Lyndon B. Johnson Space Center  
Technical Support Procurement Branch  
Houston, Texas 77058

Attention: Mrs. Ruth Elder, Mail Stop BB631 (B9)

Dear Mrs. Elder:

California Earth Science Corporation (CalESCO) is pleased to submit its 25th  
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 prepare the final reports  
on our analysis of Skylab data, and to prepare and analyze S192 images. Field  
studies of the area covered by the S192 images will be accomplished when the  
technical reports in preparation are completed.

Significant Progress

1. A paper entitled "Active and Inactive Faults in Southern California  
Viewed from Skylab" was presented at the NASA Earth Resources Survey Symposium,  
Houston, Texas, June 8-13, 1975. This paper constitutes a summary of the  
principal research accomplished on the subject contract.
2. Technical Report No. 75-1 entitled "Skylab Imagery of the Salton Trough  
Area, Southern California" was completed and has been distributed. This paper  
is one of the final reports on the subject contract.
3. A paper entitled "Digital Enhancement of ERTS and Skylab S-192 Multi-  
spectral Scanner Images of the Mojave Desert, California" was presented at the  
American Geophysical Union Meeting in Washington, D.C., June 19, 1975.

(E75-10340) FAULT TECTONICS AND EARTHQUAKE  
HAZARDS IN THE PENINSULAR RANGES, SOUTHERN  
CALIFORNIA Monthly Progress Report, Jun.  
1975 (California Earth Science Corp., Santa  
Monica.) 2 p HC \$3.25

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4. A summary of our research on the appearance of faults on Skylab images was presented to a local meeting of the American Association of Petroleum Geologists.

5. Significant progress was made on Technical Report 75-2 entitled "Investigation of Linears on Skylab and ERTS Images of Peninsular Ranges, Southwestern California". This paper is one of the final reports on the subject contract and will be completed during the current month.

Expected Accomplishments, Current Month

Work will be continued on the following technical reports:

Investigation of Linears on Skylab and ERTS Images of Peninsular Ranges, Southwestern California

Analysis of the Enhancement Characteristics of Pseudocolor Transformations

Travel Summary and Plans

No travel planned during July.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORP.

*Donald S. Lemay*  
for Paul M. Merifield  
Principal Investigator

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