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CalESCO

CALIFORNIA EARTH SCIENCE CORPORATION

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September 8, 1975

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Contract NAS 2-7698
MONTHLY PROGRESS REPORT NO. 27
September 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 BE631 (B9)

Dear Mrs. Elder:

California Earth Science Corporation (CalESCO) is pleased to submit its 27th
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. Work was continued on a technical report describing our analysis of the
enhancement characteristics of pseudocolor transformations.
2. A talk entitled "Newly Detected Faults within the Peninsular Ranges of
Southern California by Use of Spacecraft Imagery" was presented at the
Southern California Section Meeting of the Association of Engineering
Geologists.
3. Ratio images of all usable S192 channels of the Mojave test area were
generated.
4. A paper describing work in the Peninsular Ranges entitled "Faulting in
Basement Terrane, San Diego County" was submitted to the San Diego
Association of Geologists Guidebook to be published in October 1975.

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 (575-10411) FAULT TECTONICS AND EARTHQUAKE
 HAZARDS IN THE PENINSULAR RANGES, SOUTHERN
 CALIFORNIA Monthly Progress Report, Sep.
 1975 (California Earth Science Corp., Santa
 Monica.) 2 p HC \$3.25

September 8, 1975

Expected Accomplishments, Current Month

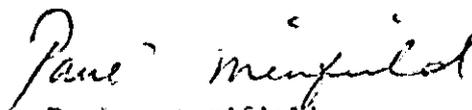
1. Work will continue on a technical report describing our analysis of the enhancement characteristics of pseudocolor transformations.
2. Ratio images of S192 channels of the Mojave test area will be analyzed.

Travel Summary and Plans

No travel is planned during September.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORP.



Paul Merifield
Principal Investigator

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