

COPY

STATE DEPARTMENT OF GEOLOGY AND  
MINERAL INDUSTRIES

1069 STATE OFFICE BUILDING  
PORTLAND, OREGON 97201

*Write to  
Rowan for date  
in field*

November 5, 1969

Dr. Lawrence C. Rowan  
Branch of Regional Geophysics  
U.S. Geological Survey  
Federal Center  
Denver, Colorado 80225

Dear Dr. Rowan:

Thank you for your letter of October 29 which outlines the work you have been doing on the Diamond Craters project.

We would very much like to meet you in the field next spring as I am sure you have discovered many interesting details on the geology of this recent lava field. As soon as you have a clear idea of the time you will be coming back to Oregon, I hope you will let me know so we can make our plans accordingly.

Sincerely yours,

Raymond E. Corcoran  
State Geologist

REC: jr  
cc Norman V. Peterson



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225

October 29, 1969

Dr. R. E. Corcoran  
Dept. of Geology and Mineral Industries  
1069 State Office Building  
Portland, Oregon 97201

Dear Dr. Corcoran:

Please forgive the tardiness of this reply to your letter of this summer. Our Remote Sensor Applications Studies program has just completed a move from Flagstaff to Denver and, in addition, I spent all of this summer in the Beartooth Mountains, Montana. My major commitments are now to the RSAS program in the Branch of Regional Geophysics rather than to the Branch of Astrogeology. The Diamond Craters project which is supported by Astrogeology, is still being carried on but, because of this administrative change, not at the previous rate.

The current status of the Diamond Craters project is that a field map has been compiled, petrographic analysis of some 50 samples is in progress, and 14 samples have been submitted for chemical analysis. Partial analysis have been received, but it will probably be this winter before they are completed.

Investigations planned for this spring after the petrographic studies and chemical analyses are received include refinement of the 7 1/2 quad geologic map through field checking and compilation of a detailed text and map explanation. Publication should follow soon after these tasks are completed.

Field checking will be done this spring at which time I shall be pleased to have you and any of your staff join me in the field. We could discuss our RSAS program, and opportunities in Oregon at this time.

Thank you for your interest in the studies at the Diamond Craters and in our remote sensing investigations.

Sincerely yours,

*Lawrence Rowan*

Lawrence C. Rowan  
Branch of Regional Geophysics

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**COPY**  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Geologic Division  
Branch of Astrogeology  
345 Middlefield Road  
Menlo Park, California

December 11, 1961

Mr. Norman V. Peterson  
State Department of Geology and  
Mineral Industry  
239 Southeast H Street  
P.O. Box 417  
Grants Pass, Oregon

Dear Mr. Peterson:

Thank you very much for the copy of the **ORE-BIN** containing your description of Hole-in-the-Ground and other craters of the maar type in Central Oregon. The features you describe appear to be closely related in origin to a number of Pleistocene maars in the United States and to the Pliocene maars of the Hopi Buttes region. Your photograph of the Hole-in-the-Ground is strikingly reminiscent of the craters of Pinacate region, Sonora, which Dick Jahns calls calderas but which I believe are rather typical maars. The enclosed manuscript has some references to other features that may be of interest to you.

I know of a number of other craters of the maar type in Arizona, Nevada, and California that have never been described and would like to keep track of all that come to light, as we have a continuing interest in them. Chuck Marshall, of the Branch of Astrogeology is engaged in a detailed investigation of a beautiful Pleistocene maar in central Nevada at the present time, and we are continuing our work in the Hopi Buttes. We would be delighted to exchange information with you and learn more about the location and possible work being done on the other craters you mention in Oregon.

With kind regards,

/signed/

Gene Shoemaker

Eugene M. Shoemaker, Chief  
Branch of Astrogeology

cc: C. H. Marshall  
H. J. Moore