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HORIZON MINING Hope Butte

# Geologist describes gold mining's value and process

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— Gold mining is to the area, the people, according to Clive Bailey, manager of the Hope Butte Project, who spoke at the Ontario chamber of commerce Monday.

The Hope Butte Project, located 15 miles northwest of Vale, is an exploration project of Horizon Gold Corporation. Bailey is a certified professional geologist who lives in Ontario and has two children. He explained the exploring process, showing slides of work done in Nevada and the Hope Butte project.

Gold is found in small quantities in many parts of Eastern Oregon, Bailey said, but the process has made it difficult to extract this gold in a commercial operation.

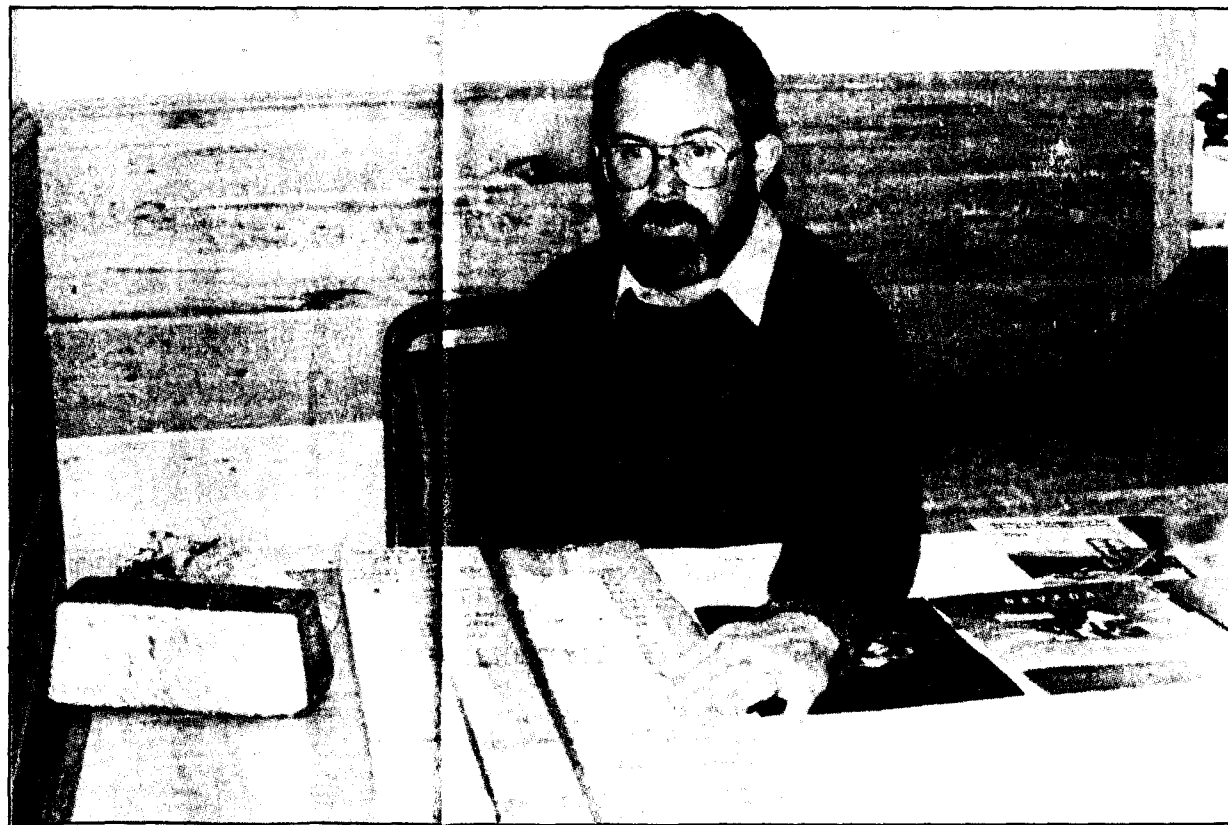
This is done by a process called "heap leaching" which is done in the extraction process. The geologist explained the process which are taken to

keep from harming the environment and wildlife.

It is possible to get only 2.2 ounces of gold from a 50 ton truck of ore, the geologist said. The ore is crushed to one-half inch or smaller rock particles and then placed on top of the leach pad. The chemical solution is then sprinkled over it, dissolving and carrying the gold out. "The solution is boiled up through a column and activated carbon pulls the gold out of the solution."

The geologist talked of the importance of mineral resources and the efforts of some people to deny companies access to, or the right to remove, the valuable minerals. "We try to utilize the resources in Oregon but we have to seek a balance by being good stewards of the soil."

Bailey provided a statement from five United States Senators, including former Sen. James A. McClure and Sen. Steve Symms, both of Idaho, who said, "If our mining industry collapses — as some environmental groups hope it will — thousands will lose their jobs. It is time to stop thinking it's



**GEOLOGIST** — Clive Bailey of Horizon Gold Corporation points to samples of core drillings from Hope Butte Project west of Vale. At left is a replica of a gold bar.

Argus Observer/Fran McLean

always going to that's going to kid yourself; you

That letter was most exploration of mining west takes place on lands.

"Simply stated, the west is owned by the government. Eighty percent of Idaho (100 acres) is federal, 10 percent of Montana, 10 percent of Nevada, and Wyoming is owned by the government." Ore is owned by the government.

The senators' support of development of mineral resources "rests on the fact that we need the money for schools, for health care for the elderly, for the other services we expect in a modern environment."

Information from the geologist says mineral resources are "We depend on them throughout our lives."

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placed soil around allowing it to grow and the reconstructed

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Hope Butte

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**CHRIS MOORE**  
Argus Observer

ONTARIO — Gold mining is important to the area, the nation and its people, according to Clive Bailey, manager of the Hope Butte Project, who addressed the Ontario chamber of commerce Monday.

The Hope Butte Project, about 12 miles northwest of Vale, is an exploration project of the Horizon Gold Corporation. Bailey is a certified professional geologist who lives in Ontario with his wife and two children.

Bailey explained the exploration and drilling process, showing slides of work done in Nevada while he was manager of the Buffalo Valley Gold Mine, another Horizon project.

Gold is to be found in small amounts in many parts of Eastern Oregon, Bailey said, but modern science has made it possible to extract this gold in a profitable operation.

Bailey said this is done by a process called "heap leaching" and uses cyanide in the extraction. The geologist explained the precautions which are taken to

keep from harming the environment and wildlife.

It is possible to get only 2.2 ounces of gold from a 50 ton truck of ore, the geologist said. The ore is crushed to one-half inch or smaller rock particles and then placed on top of the leach pad. The chemical solution is then sprinkled over it, dissolving and carrying the gold out. "The solution is boiled up through a column and activated carbon pulls the gold out of the solution.

The geologist talked of the importance of mineral resources and the efforts of some people to deny companies access to, or the right to remove, the valuable minerals. "We try to utilize the resources in Oregon but we have to seek a balance by being good stewards of the soil."

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**GEOLOGIST** — Clive Bailey of Horizon Gold Corporation points to samples of core drillings from Hope Butte Project west of Vale. At left is a replica of a gold bar.

The worker placed soil around the tree, allowing it to grow and thrive in the reconstructed environment.

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