

6101917
DOGAMI BREITENBUSH
REPORT

The council also authorized the city to apply for funding from the Small Scale Energy Loan Program through the Oregon Department of Energy for geothermal replacement and expansion. (Paul Lienau, OIT)

89.17 Northwest Meeting Highlights Mineral-Related Issues:

The Bureau of Land Management, Oregon State Office, and Region 6 of the U.S. Forest Service have scheduled their Annual Northwest Mineral Industry Meeting for March 15, 1989, 8:30 a.m. - 4:30 p.m., Viscount Hotel, Portland, OR. The focus will be new mineral-related legislation, policy, and regulatory changes, including a review of the 1988 Geothermal Steam Act Amendments and an update on Activities at Newberry Crater.

The State Geologists from Oregon and Washington also are scheduled to attend, each to present a 5-year forecast of activities relating to fluid and solid minerals, including geothermal. The keynote address will be presented by Constance Brooks, former Vice President-General Council of the Mountain States Legal Foundation. Contact either Eric Hoffman or Mary Mannix at 503/231-6812. (Geothermal Report 3-1-89)

89.18 Breitenbush Area of Oregon Report Released:

A new geologic report on studies of an area that includes the Austin and Breitenbush Hot Springs, both so-called Known Geothermal Resource Areas (KGRA) in the Cascade Range, presents a geologic cross section and geothermal model in greater detail than had been possible so far.

The Oregon Department of Geology and Mineral Industries (DOGAMI) has released "Geology and Geothermal Resources of the Breitenbush-Austin Hot Springs Area, Clackamas and Marion Counties, Oregon", as DOGAMI Open-File Report 0-88-5. The report was edited by D. R. Sherrod of the U.S. Geological Survey (USGS) and contains contributions by Sherrod and five other scientists from the USGS, Washington State University, and Southern Methodist University.

The report summarizes several ongoing investigations including geologic mapping, alteration studies, and the heat flow results from cooperative and industrial drilling programs. The researchers were able to use, for the first time, previously confidential information from industry drilling.

The first five chapters present detailed treatments of geologic setting, stratigraphy, geochemistry, alteration phenomena, and of a substantial set of new data on thermal conductivity and heat flow. In the final chapter, all the contributions are combined into a geologic cross section showing topography, stratigraphy, structure, isotherms, heat flow, gravity, and hydrology.

The 91-page report is accompanied by a geologic map and cross section of the area around geothermal drill hole CTGH-I, located about 14 km (8.7 mi) northeast of Breitenbush Hot Springs and 6 km (3.7 mi) northwest of Olallie Butte. This hole was rotary-drilled cooperatively by Thermal Power Company, Chevron Geothermal, and the U.S. Department of Energy in 1986 and yielded an essentially 100 percent core recovery down to its total depth of 161 m (528 ft).

Open-File Report 0-88-5 is now available at the Oregon Department of Geology and Mineral Industries, 910 State Office Building, 1400 SW Fifth Avenue, Portland OR 97201-5528. The price is \$8. Orders under \$50 require prepayment. (GRC Bulletin, February 1989)

89.19 New Geologic Map for Oregon Hot Spring Area Released:

A new geologic map published by the Oregon Department of Geology and Mineral Industries (DOGAMI) and partially funded by the U.S. Department of Energy provides a detailed geologic description of the McKenzie Bridge 15-minute quadrangle in the Cascade Range.

Geologic Map of the McKenzie Bridge Quadrangle, Lane County Oregon was prepared by G. R. Priest, G. L. Black, and N. W. Woller of DOGAMI and E. M. Taylor of Oregon State University. It was published in DOGAMI'S Geological Map Series as Map GMS-48.

The McKenzie Bridge quadrangle is located at the transition zone between the older Western Cascades and the younger High Cascades. This zone is also the location of some of the hottest known thermal springs in the Cascade Range. A major purpose of the study that culminated in the production of this map was to define the structure of the area in greater detail.

The report consists of two map sheets and five-page text discussing the map data. The full-color geologic map at a scale of 1:62,500 (Plate 1) identifies 56 surface, volcanic, and intrusive rock units and their structural relations and is accompanied by four cross sections. The second sheet (Plate 2) contains index and sample-location maps and three tables showing chemical analyses and radiometric ages of rock samples. The text discusses the structural geology, paleogeographic history, and mineral and geothermal resources of this complex geologic boundary.

The report is now available at the Oregon Department of Geology and Mineral Industries, 910 State Office Building, 1400 SV Fifth Avenue, Portland, OR 97201-5528. The price is \$8. Orders under \$50 require prepayment. (GRC Bulletin, February 1989)