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*Product*

# Geology, Exploration and Mining in British Columbia

# 1972

British Columbia Department of Mines and Petroleum Resources



SOUTHEAST BRITISH COLUMBIA  
(NTS Division 82 Figure A)

PENTICTON 82E

BURNT BASIN (No. 67, Fig. A)

By P. E. Olson

LOCATION: Lat. 49° 10.5' Long. 118° 07' (82E/1E)  
GREENWOOD M.D. At approximately 4,000 feet elevation near the heads of Josh and Mollie Creeks, 8 miles north-northeast of Christina Lake village.

CLAIMS: Mineral Leases M-52, M-118, M-119, M-131, M-183, M-196, M-197, M-205, and M-365 which comprise 15 Crown-granted claims including BURNT BASIN (Lot 1136), AJAX (Lot 1509), EVA BELL (Lot 2031), and HALIFAX (Lot 3042); also the located claims SHIRLEY 1 to 8, CHRISTINA 1 to 6, BP 1 to 3 Fractions, HAVANA Fraction, and GALENA Fraction.

ACCESS: By a mining road which leaves the Christina Lake-Kinnaird Highway immediately west of the Paulson bridge.

OWNER: Burnt Basin Mines Ltd.

OPERATORS: BURNT BASIN MINES LTD., Box 1496, Grand Forks and DONNA MINES LTD., 642 Clark Drive, Vancouver 6.

METALS: Silver, lead, zinc (production shown on Table I). *47 ton' of conc. ore*

DESCRIPTION: This region is underlain by limestones and argillaceous limestones of Pennsylvanian and/or Permian age. Beds generally strike northwest and have been invaded by numerous dykes and sills of diorite and syenite. Sparse mineralization consists of sphalerite with minor galena and magnetite. Where the formation has been exposed by stripping, northwesterly plunging folds have been noted. Where mineralization has been seen, it is noted that the sedimentary rocks are highly altered. Nowhere on the showings has any intensive mineralization been noted.

WORK DONE: Surface geological mapping, 1 inch equals 50 feet and magnetometer survey, 10 line-miles covering Eva Bell and Halifax; road construction, 1 mile on BP Fraction and Eva Bell; trenching and stripping on Eva Bell; surface diamond drilling, five holes totalling 661 feet on Eva Bell. A small shipment of ore was made to the Trail smelter. This shipment is reported to have graded around 16 per cent zinc, 8 per cent lead, and 6 ounces per ton silver. Mining was done from the surface along a mineralized shear about 10 feet wide and striking northerly. Diamond drilling indicates that the structure is discontinuous.

REFERENCES: *Minister of Mines, B.C., Ann. Rept., 1968, p. 238; B.C. Dept. of Mines & Pet. Res., G.E.M., 1969, p. 311.*

ANN, CALEDONIA (No. 68, Fig. A)

LOCATION: Lat. 49° 00.5' Long. 118° 11' (82E/1E)  
GREENWOOD M.D. At approximately 3,200 feet elevation on Castle Mountain, about 2 miles southeast of Cascade.