## PURCELL PROJECT (82G/5)

By T. Höy

Regional mapping at a scale of 1:25 000 of an area centred on Moyie Lake in the Purcell Mountains in southeastern British Columbia was initiated in 1979. The area is underlain primarily by rocks of the Purcell Supergroup of Helikian/Hadrynian age. The project is a continuation of a regional study of the Purcell Supergroup that is emphasizing the depositional environment of these rocks in order to determine the relationships between sedimentation, tectonics, and stratiform sulphide deposits. Two recently published preliminary maps with reports have been released describing the structure, stratigraphy, and depositional environment of Purcell rocks in the Hughes and Lizard Ranges on the east side of the Rocky Mountain Trench. The first, by McMechan (1979), includes the area south of the Wild Horse River; the second (Höy, 1979), located north of Wild Horse River, is an extension of a previously released map (Höy, 1978).

The Moyie Lake project will continue in 1980 and will extend mapping north to Cranbrook, east to Gold Creek, and south to approximately 49 degrees 10 minutes north. It will concentrate on subdivision of the Aldridge Formation, location of the Lower—Middle Aldridge contact, and the relationship of the Moyie fault to Precambrian and younger tectonics. Detailed stratigraphic section measurements and studies of lead-zinc deposits (such as the St. Eugene deposit) will augment the project.

## REFERENCES

- Höy, T. (1978): Geology of the Estella-Kootenay King Area, Southeastern British Columbia, B.C. Ministry of Energy, Mines & Pet. Res., Preliminary Map 28.
- .......(1979): Geology of the Estella-Kootenay King Area, Hughes Range, Southeastern British Columbia, B.C. Ministry of Energy, Mines & Pet. Res., Preliminary Map 36.
- McMechan, M. E. (1979): Geology of the Mount Fisher—Sand Creek Area, B.C. Ministry of Energy, Mines & Pet. Res., Preliminary Map 34.