So. 157 Howard Street
Spokane 4, Washington

June 20, 1952

Memorandum

To: A. E. Weissenborn, Executive Officer, DMEA
Field Team, Region II

From: A. B. Campbell, Geologist, U. S. Geological Survey

Subject: Recommendation for denial, Wolf Lodge Company, Kootenai County, Idaho (Docket DMEA-2164), Lead.

The property included in the application (DMEA-2164) by the Wolf Lodge Company, Coeur d'Alene, Idaho, for an exploration loan of $20,499.94 was examined on June 2, 1952, by B. Boyer and A. B. Campbell of the U. S. Geological Survey in the company of Mr. Fillmore Murphy, applicant.

The applicant's "vein" is in reality a wide (40 ft. to 60 ft.) zone of gouge and shearing which can be seen in a large road cut near the junction of U. S. Highways 10 and 95 at the East end of Lake Coeur d'Alene. This fault appears on A. L. Anderson's map, which was prepared for use in the Idaho Bureau of Mines and Geology pamphlet no. 53, May 1940. It is a major NW-SE trending structure that intersects Lake Coeur d'Alene at its easternmost tip. Much of the movement during faulting was apparently along a series of irregular and intersecting shear planes which may now be seen as zones of gouge in a sheared matrix of country rock. A post-faulting lamprophyre dike is also present in the sheared area. Several small pockets of disseminated sulphides including arsenopyrite, pyrite, and minor amounts of bornite are present locally in the shear zone. These irregular replacement pods do not appear to be continuous mineralized structures. The applicant has reported low gold assays of picked samples from one of these pods. Several small, discontinuous, bedding-plane stringers of quartz also occur but do not carry sulphides.

In respect to the general outlook for production for this area, A. L. Anderson states,

> "Mineral deposits are rather widely distributed over Kootenai County but not one of them has produced much ore. The quartz veins are most widely scattered....but only minor amounts of sulphides have been found in them

and not enough to afford any sustained commercial production. Because of the scant distribution of their sulphides, these veins are not likely to play any important role in the mineral industry of the county and cannot be looked upon as a favorable source for copper, lead, and zinc." 1/

The proposed exploration program is considerably out of proportion with respect to the scant geologic evidence favorable to a significant discovery of ore in this area. I most certainly could not recommend the program as proposed and, in addition, would not recommend consideration of a modified program such as diamond drilling.

In reviewing the application and in talking with the applicant it is apparent that he has no comprehension of geological evidence or mining methods and costs. In reading the application before visiting the property I questioned the necessity of the two 14 ft. by 20 ft. cabins which were estimated as costing over $2,000. When I met Mr. Murphy at his home I was somewhat amused to find what I think is the answer to the request for the cabins. Mr. Murphy operates a small lakeside "resort" for tourists and fishermen and owns several small cabins which he rents on a weekly basis. The proposed site for the cabins requested in the application is also on the lake shore a short distance down the road from his "resort".

Even a cursory review of the estimated costs in the application reveals that they are too high. A good example is the applicant's proposal to charge 10 cents per mile plus a flat $6.00 per day for the use of his one ton truck. In view of my decision at the time of examination to recommend denial of the application, I did not review the proposed costs in detail with the applicant.

Conclusions and Recommendations

There is not sufficient geological evidence of a possible significant discovery of ore to justify the program proposed in the application. The applicant does not appear competent to carry out an efficient exploration operation. For these reasons denial of this application is recommended.

cc: USBM, Spokane
USBM, Albany
USGS (SRO)

A. B. Campbell
Geologist

1/ Anderson, A. L., Geology and metalliferous deposits of Kootenai County, Idaho: Idaho Bureau of Mines and Geology Pamphlet no. 53, p. 46, May 1940.