So. 157 Howard Street
Spokane 4, Washington

August 13, 1951

Memorandum

To: A. F. Weissenborn, Executive Officer, DMA, Field Team, Region II

From: Verne C. Fryklund, Jr.

Subject: Red Cub Mining Company
Curry County, Oregon
Docket DMA-1435

INTRODUCTION

I visited the property in the company of Mr. Cobb, one of the owners, and Mr. Frank A. Smith, the company engineer. Mr. Smith showed me all the areas which he had seen having copper mineralization.

RECOMMENDATION

I recommend that no production loan be made for this property. I would, however, recommend an exploration loan which would include the following items:

Step I A. Construction of 7 miles of bulldozer road from Agness. A bulldozer could ford the Rogue River during low water.

B. Trace the copper bearing zones by means of bulldozer trenches.

C. Geologic mapping and sampling. (Detailed geologic mapping is necessary, but must be preceded by trenching.)

If Step I indicates the presence of ore I would include a Step II as follows:

A. 2-3000 feet of diamond drilling at locations determined in Step I.

APPLICANT

The applicant is the Red Cub Mining Company of Sacramento. The company is newly organized and none of the officers has had previous mining experience.

Location of Deposit

According to the application the Red Cub mine is located in Sections 4, 5, and 8, T. 35 S., R. 11 W., in Curry County, Oregon. On the applicant's map the property is shown in sec. 34, T. 34 S., R. 11 W., and in sections 3 and 4 of T. 35 S., R. 11 W. According to the applicant's map 21 claims are included in the property.

OWNERSHIP

Seven of the Red Cub claims are owned by D. E. Crabb who is leasing to G. I. Dumond (apparently representing the Red Cub Mining Company). These claims are Red Cub 4, 5, 6, 7, 8, 9, 10. Red Cub claims 1, 2, and 3 are owned by Larry Lucas, Al Lachance, Phil R. Adams, and Mary Smedberg.

The 11 Shasta Costa claims have been claimed by D. E. Crabb, G. I. Dumond, "and other names."

HISTORY AND PAST PRODUCTION

The property was claimed a number of years ago, but there has been no production.

DESCRIPTION OF PROPOSAL

The applicant is asking for a production loan of $3,500,000 in order to open a mine and erect a mill on this property. In addition he is asking for a purchase contract and a certificate of necessity.

The applicant proposes to construct necessary roads, bridges, and buildings, erect a 1200 ton flotation mill, and open an open pit mine. The mill is to begin operation in six month's time.

Previous Examination of Property

The Red Cub property was examined in 1943 by the U. S. Bureau of Mines and a War Minerals Memorandum was prepared by J. R. Reynolds, F. M. Gunnel and O. H. Metzger. The conclusions of that report are as follows:

1. "Pyrite, quartz and local deposits of chalcopyrite are sparsely disseminated throughout a large area of igneous rock on the Red Cub claim No. 1 and are inferred to extend northward into Shasta Costa Canyon.

2. "The amount of copper in the outcrop is insufficient to warrant further exploration in 1944.

3. "This area may contain undisclosed large disseminated copper deposits that would warrant exploration when a demand becomes imminent for open cut operations on material containing less than 0.5 percent copper. The prospect would also warrant further consideration by the Bureau of Mines if, upon further prospecting or development by the owners or other interested parties, it is shown that there is a good possibility of developing a large deposit of higher grade ore."

There has been no prospecting since this Bureau of Mines report.

In addition there is a second Bureau of Mines report on the "Shasta Costa Copper Prospect" which describes the north end of the present Red Cub property. This report is unavailable at the time of writing (8-10-51) but from my observations the grade might be slightly higher than on the south end of the property.

If an application for an exploration loan is submitted this report should be consulted.

I would say that the samples as shown on the Bureau map, and on the map of this report, were not taken across the zones of most intense sulphide mineralization.

DESCRIPTION OF DEPOSIT

Outcrops in the vicinity of the property are extremely limited. The country rock on the northwest end of the property, as shown by float, is serpentine rock. A small exposure of calcite-serpentine rock is present at the south end of the properth where it lies between exposures of mineralized volcanics. Large blocks of coarse conglomerate are present on the southeast end of the property, but none were seen in place. These rocks are probably all Mesozoic in age.

The ore is confined to shear zones in what are probably metamorphosed volcanics. The volcanics have been intruded by small stringers of quartz diorite. On the south end of the property (see map) a zone about 120 feet wide has been opened by a shallow hillside cut. This zone has been hydrothermally altered and bleached in places. The zone cannot be traced along the strike because of overburden. In claims just on the south side of Shasta Costa Creek two mineralized zones, one 50 feet wide, one over 200 feet wide, outcrop about 300 feet above the creek. The continuation to the north or south along the strike cannot be determined because of cover. There is sulphide min ralization on the slope north of Shasta Costa Creek also.

The visible mineralization consists of pyrite, chalcopyrite, bornite stain, and a surprisingly minor amount of malachite stain. Pyrite is the predominant mineral and occurs irregularly disseminated through the volcanics and along small fractures. The minor amount of chalcopyrite appears to be more restricted to the small fractures.

Cobalt has been reported by the owners but none was recognized.

MINE WORKINGS

The workings which I saw were restricted to 3 small cuts and a 20-foot adit on the south end of the property. A somewhat longer adit, now caved, is also present in this area. (see map) Although adits of considerable length have been reported as present at the north end of the property, the company's engineer has not been able to locate them. He suggested that they may be covered by slides. There are several small pits in the center of the property, but, according to Mr. Smith, none of them reached bedrock.

RESERVES

There are no proven reserves whatsoever. There is no doubt a considerable tonnage of copper-bearing rock on the claims but the figure given in their application is simply a guess made by the company engineer at the insistence of the owners. The company has taken a few samples but there is no assay map to accompany the samples. Samples RC 2-7 (see application) were taken over the 120 foot exposure in the south end of the property. The company engineer said the assays and the map submitted with the application do not match.

MINING METHODS

The owners talk about an open pit mine. This would probably be the best method but a definite selection of the mining method should await exploration of the property.

MILLING METHOD

No mill tests have been made. The flow sheet submitted by the applicant is simply that of a textbook copper mill.

RATE OF PRODUCTION

They propose to operate a 1200 ton mill.

TIME SCHEDULE

Six months after work is started the applicant proposes to begin operation of the mill. Inasmuch as the applicant does not now know where to open the property, or what his flow sheet might be, or if he has enough ore to support such a mill, it seems doubtful if he could be in operation in six month's time.

EQUIPMENT AND FACILITIES

There are no roads to the property, no buildings other than two dilapidated cabins, and no mining equipment on the property. More must be known about reserves, mill tests and mining method before required equipment and facilities can be discussed.

LABOR SUPPLY

All local labor is engaged in logging, miners would have to be brought in.

POWER

There are no high voltage power lines in the area. The applicant proposes to build a hydro-electric plant and install standby Diesel generators.

TRANSPORTATION

It would be necessary to construct at least 5 miles of road over steep terraine to reach the south end of the property. It would not be feasible to build a road to the north end of the property. The present bridge at Agness crossing the Rogue River is a suspension bridge with a load limit of 3 tons. As the Rogue River is about 100 yards wide, top of bank to top of bank, and has a range in water height of over 50 feet, a substantial new bridge would be required to operate the property.

A good dirt road exists from Agness to Powers, a distance of 40 miles. Only 20 miles of this road has been graveled. The road is in use by logging trucks and is sufficiently wide. Maintenance in the fall and winter will be difficult, however.

Powers is the railhead for the district.

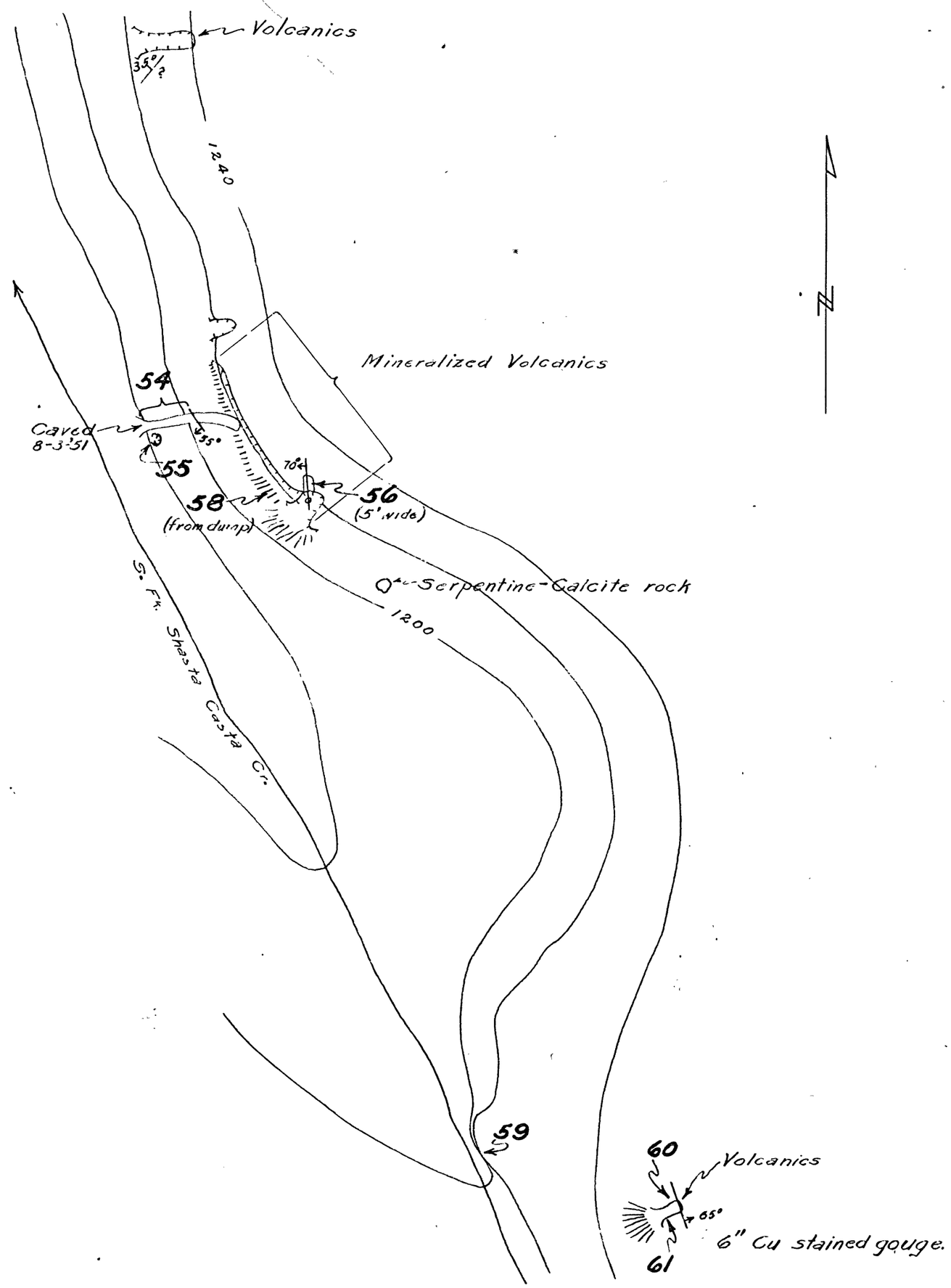
ADEQUACY OF REQUESTED FUNDS

I am not competent to pass on the adequacy of the requested funds but the applicant seems to have requested more than enough money for the project.

COMPETENCE OF APPLICANT

Mr. Dumond, the applicant, operated shipyards and a tank repair center during the war and is now exploring an iron deposit in California.

He is not a mining man and seems to have thoroughly ignored his own engineer in the compilation of his application.



EXPLANATION

35 / Strike & Dip of possible bedding

65° / Strike & Dip of fault

SAMPLES

52 · Bureau of Mines Sample Cu 0.05 %
(from end of caved adit)

53 · Bureau of Mines Sample Cu less than 0.02 %
(from stringer in caved adit)

54	Bureau	of Mines	Sample	Cu	0.28 %
55	"	"	"	Cu	0.11 %
56	"	"	"	Cu	0.72 %
58	"	"	"	Cu	8.52 %
59	"	"	"	Cu	less than 0.1 %
60	"	"	"	Cu	13.48 %
61	"	"	"	Cu	0.11 %

Base map from U.S. Bureau of Mines

MAP SHOWING GEOLOGY, SURFACE AND UNDERGROUND WORKS

SOUTH END OF RED CUB PROPERTY
CURRY COUNTY, OREGON

Scale 1" = 80'
Contour Interval: 20 ft.