

March 21st, 1972.

LUC SYNDICATE

BURN DRILLING PROJECT

LUC Syndicate requests bids for 5000' NQ wireline diamond drilling to be carried out on its Burn claim group located approximately 85 miles north of Fort St. James.

Figure I, topographic map, indicates location and means of access to the area.

Drilling is proposed to start August 1st, 1972, *Bids should be submitted by June 30 1972*

The following is a summary of information available and specifications of work proposed:

Location

Burn claim group, 5 miles south of Kwanika Creek Department of Mines access road.

Elevation

Camp and drilling area in timber at about 4500' elevation. Figure II shows ground contours in the drill area.

Access

Gravel road from Fort St. James through Manson Creek to Kwanika Creek, a distance of approximately 170 miles. During the summer this road is adequate for most traffic except for weight restrictions on bridges when hauling tractors.

The claim group is reached from the Kwanika Creek road via a tractor trail, a distance of approximately 7 miles, to the drilling area. This trail crosses Kwanika Creek in an area of gravel bars which may be traversed by 4-Wheel-Drive vehicles at low water.

Water Supply

Water may be obtained from a creek near the north boundary of the claim group at an elevation of about 4350'. This location is near the existing campsite and access road but is some 2200' to 5500' from the proposed drill sites.

Water may also be obtained from the main creek east of the drilling area. Elevation of the creek varies from 4050' to 4200' at distances of 1200' to 4400' from proposed drill sites.

Several small streams and considerable ground seepage exist in and close to the drill area and, during the summer, it is thought sufficient water can be obtained from these sources.

A few isolated tests in streams during summer 1971 indicate a pH of 4.5.

Footage

The accompanying Figure II, 'Proposed Drill Sites', indicates 15 NQ drill holes to be drilled vertically to a depth of 300'. Holes are located on a grid pattern at 800 foot centres. Additional drilling will be governed by results of these holes. ONE OR TWO DEEPER HOLES (800') IS POSSIBLE.

Overburden

Two cat trenches indicated on Figure II showed a maximum of 10 feet of overburden. This was generally a wet sandy clay with scattered boulders of all sizes. Elsewhere in the drill area overburden depths are

unknown. Along the creek near the north boundary, banks of till reach heights of 50 feet.

Adequate gear should be supplied to penetrate depths of 100 feet of overburden.

Rock

Granitic rocks, massive to highly fractured.

Molybdenite, minor chalcopyrite and/or pyrite occur in:

- (a) joint-like fractures, sometimes closely spaced, in granitic rocks; trend in several directions.
- (b) quartz veins, generally in an east-west direction and dipping from 35° south to vertical.
- (c) shear and gouge zones, generally trending east-west and steeply dipping.
- (d) medium grained alaskite dykes trending north.
- (e) massive granitic rock with disseminated mineralization.

No previous drilling has been done on the property.

Equipment.

Two drills are requested for this job, ~~with at least one of them capable of drilling NQ equipment to 1000 feet.~~

Every effort is to be made to recover molybdenite mineralization with maximum core recovery. For this purpose chrome core tubes, split core tubes and mud systems are requested.

In the event of inadequate core recovery, equipment should be available on the property to recover sludge if the mud program should be abandoned.

Core boxes to be provided on site by the contractor.

Camp

The contractor to supply, erect and maintain all camp facilities for the drilling operation.

The company has two 9' x 12' plywood tent frames at the existing campsite. These should be adequate for company personnel.

The contractor is requested to provide board for a company geologist and one assistant. Company personnel beyond this number, if present, to pay board at a rate to be specified by the contractor.

Access Roads and Drill Moves

Due to the fairly heavy timber and wet ground, it is thought a D-6 or equivalent tractor with blade and winch will be necessary to prepare access roads, drill sites and locations for mud tanks, etc.

This tractor will also be used by the company, as required, and as time permits, to clean up slash and maintain the access road from Kwanika Creek.

Contractors are requested to bid the following items:

- (1) Mobilization - from Fort St. James to drill area.
- (2) Demobilization - from drill area to Fort St. James.
- (3) Overburden - 0' - 30'
30' and over.
- (4) Drilling in bedrock - 0 - 300'
300 - 500'
500 - 1000'
- (5) Field cost -per man hour,
per machine hour - operating
- non-operating.
- (6) Water - to be included in bid price for pumping distances up to ²⁰⁰⁰~~1500~~ feet.
- (7) Moves - to be included in bid price based on locations shown.
- (8) Site transportation - to be provided by contractor.
- (9) Drill site access and preparation - at cost to company account.
- (10) Core - Emphasis will be on maximum core recovery. Core to be placed in adequate boxes, carefully numbered as to hole and box number with a footage marker at the end of every run. Core to be delivered to the company representative at the campsite.
- (11) Sludge - Collection facilities to be provided on the property by the contractor for possible collection. Indication of equipment types requested.
- (12) Core splitter.
- (13) Board - to be provided for two company men. Rate to be charged for any additional men should be indicated.
- (14) Communication - The contractor should provide such radio or radio-telephone communication as deemed necessary.

(15) Transportation and Supply - Russell's Transfer and Fort St. James Stages provide freight and express service to Manson Creek and Germansen Landing on a weekly basis. Standard Oil provides bulk fuel to the same area also on a weekly basis. The contractor should provide a 4-Wheel-Drive vehicle for site transportation and camp supply as indicated above under these headings.