

BIG ONION PROSPECT

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BIG ONION PROSPECT

LOCATION AND ACCESS

The Big Onion Prospect is located on the southwest slope of Astlais Mountain, some 11 air miles east of Smithers in the Omineca Mining District of British Columbia.

The claim group is crossed by the secondary highway between Smithers and Babine Lake. A system of bulldozed access trails permits 4-wheel drive travel to the central claim area.

HISTORY

The property was first located by prospectors in 1917. Limited and sporadic hand work continued until 1930, one of the original locators retaining title until the early 1960's.

Mr. J. Hemelspeck re-staked the property and optioned it to Noranda Mines Ltd. in 1964. Noranda undertook trenching, stripping and 250 feet of core drilling before relinquishing its option.

Texas Gulf Sulphur negotiated an option with Hemelspeck on December 6, 1965. Stripping, line cutting, geological and geochemical surveys with 2,723 feet of core drilling was completed in 1966. During August, 1967 an additional 1,270 feet of core hole was drilled, the option subsequently being dropped.

Noranco finalized an option agreement with Mr. Hemelspeck September

10, 1967 and presently holds title to the 96 claims of record under that option.

UNDERGROUND DEVELOPMENT

Underground work on the mineral claims was limited to three short adits completed during the period from discovery to 1930. This work encountered only copper-molybdenum mineralization, not economical for hand mining methods employed.

SURFACE EXPLORATION

Historical work was confined to shallow hand dug pits in the vicinity of the adits.

Recent work by Noranda and Texas Gulf led to a fairly extensive system of dozer access trails and trenches dug over the central claim area, northeast and southwest from the original work. Figure 6, accompanying the report, depicts this work as well as the grid cutlines established for mapping and survey control.

The surveys included geochemical sampling and induced polarization-magnetometer coverage of the central claim area. Approximately 4,250 feet of core hole, nine holes of varying depths, partially explored geophysically indicated sulphide concentrations.

Results from surface assays range to a high of 1.6 per cent copper with 0.06 per cent molybdenum. Assays of split core from drilling gave a

high of 0.5 per cent copper and 0.02 per cent molybdenum with up to 20 per cent pyrite by estimate. Average Cu-Mo values from all Texas Gulf core holes drilled are not believed to exceed 0.2 per cent Cu and 0.02 per cent Mo.

PROPERTY

Particulars concerning the 96 current mineral claims of record are available from Norranco on request. Configuration of the total claim group is depicted as Figure 6.

The claims are recorded at Smithers in the District Mining Recorder's office, Omineca Mining Division.

NEW PROPERTY

Norranco acquired by staking, an adjoining group of mineral claims in the summer of 1968. The 25 claim Pil Group is adjacent to the Big Onion Group on its west side.

Particulars are available from Norranco, records for the claims being in the Court House at Smithers.

EXPLORATION
POTENTIAL

Work thus far completed has only partially evaluated the mineral potential of the known anomalous areas in the central section of the intrusive complex.

More recent development work to the south and east, coupled with in-

dications from the induced polarization survey, suggests that additional work is required in this section of the claim group. Other untreated geochemical and geophysical anomalous areas are located to the northeast and southwest of the region over which surveys have been conducted to date.

RECOMMENDATIONS

1. The present base line and grid system should be expanded for control over the total claim group and the contiguous Pil Group.
2. Reconnaissance soil sampling for copper-molybdenum is recommended at 200-foot intervals over all new grid lines.
3. Induced polarization-magnetometer coverage of specific areas, to be tied-in with previous work, should be undertaken.
4. An estimated initial 5,000 feet of core hole should be drilled as indicated by survey results to test the mineral content of geophysical-geological substantiated anomalous areas.
5. Evaluation of all results, together with an independently compiled feasibility and economic report, should be reviewed prior to undertaking further work.

ESTIMATED COSTS

	<u>Estimated Cost</u>
A. <u>Phase 1</u>	
1. Completion of grid system.	\$ 5,000.00
2. Grid system continued over "Pil Group".	2,500.00
3. Update geology and compile base map.	2,000.00
4. Compile geological detail over both claim groups.	2,500.00
5. Conduct reconnaissance soil sampling.	3,000.00
6. Based on geological and geochemical study, complete induced polarization over selected areas. (Estimated 30 line miles)	14,000.00
7. Geological, engineering, supervision.	6,000.00
8. Transportation, assays, communication.	3,500.00
9. Contingencies.	3,500.00
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Estimated Total, Phase 1	<u><u>\$42,000.00</u></u>
B. <u>Phase 2</u>	<u>Estimated Cost</u>
1. Review Phase 1 data and report.	\$ 500.00
2. Test significant anomalies by drilling. (Estimate a nominal 5,000 feet)	50,000.00
3. Geological, engineering, supervision	8,000.00
4. Sampling, assays.	4,800.00
5. Mapping, cartography reports.	2,000.00

6. Evaluate results, obtain consultants feasibility report.	\$ 5,000.00
7. Transportation, communication.	2,500.00
8. Overhead and contingencies.	7,200.00
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Estimated Total, Phase 2	<u>\$80,000.00</u>

NOTE: Assuming favourable weather and a suitable start, both phases of the program could be completed in a calendar year. However, it is probable that most of the drilling would best be undertaken the following season after thorough study of all accumulated data.

Respectfully submitted,

NORRANCO MINING & REFINING CO. LTD.

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ADT:mc

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