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Esso 1981 report

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SULPHURETS PROJECT, B.C.

Target: Zones of disseminated bulk-mineable Au mineralization and epithermal Au-Ag veins.

History: The Sulphurets property has been known since 1935 as a large gossan zone with areas of Cu-Mo mineralization and local Au-Ag showings. Exploration by Granduc Mines Limited from 1959 to 1978 was mainly directed towards Cu-Mo. Esso began work on the property in 1980 with Mo and Au as the main targets. The emphasis has since swung to Au and Ag.

1981 Program

SUMMARY OF 1981 EXPLORATION RESULTS
ON THE SULPHURETS PROPERTY

INTRODUCTION

Esso conducted an active exploration program at Sulphurets for a four month period in 1981. A total of 12,000 feet of drilling was done and about 900 surface samples were collected for assay.

About half of the check assays for gold have been received. Almost all the copper and molybdenum assays are yet to be received.

Work Done

The following is a list of precious metal areas on the Sulphurets property. The number of drill holes and total footage per area done in 1981 are shown. Data in brackets represents work done during 1980.

Disseminated Gold Zones:

- 1) Sulphurets Gold Zone
Breccia Zone 5 holes, 3064 ft.
(1 hole, 545 ft.)
Canyon Zone 6 holes, 3164 ft.
- 2) Sulphurets Lake Gold Zone 2 holes, 675 ft.
- 3) Snowfield Gold Zone

Epithermal Gold-Silver Veins:

- 4) Iron Cap Veins (4 holes, 2450 ft.)
- 5) Brucejack Peninsula Area
Discovery Area 2 holes, 1223 ft.
(1 hole, 487 ft.)
28 Area
Pyrite Area 3 holes, 1638 ft.
- 6) South Brucejack Area
Main Stockwork 4 holes, 2216 ft.
Other Veins
367 Area
New Float Discovery

Results

The significant Au and Ag values encountered in 1981 are as follows:

Disseminated Gold Zones:

- 1) Sulphurets Gold Zone
Breccia Zone
DDH 19 : 57.57 m of 0.063 oz/t Au
DDH 38 : 30.00 m of 0.068 oz/t Au
DDH 39 : 30.00 m of 0.077 oz/t Au

Canyon Zone

DDH 18 : 48.00 m of 0.039 oz/t Au
DDH 23 : 90.93 m of 0.034 oz/t Au
DDH 24 : 30.76 m of 0.040 oz/t Au
DDH 25 : 45.00 m of 0.041 oz/t Au
DDH 26 : 50.34 m of 0.033 oz/t Au

2) Sulphurets Lake Zone

DDH 21 : 6.00 m of 0.245 oz/t Au

3) Snowfield Gold Zone

Surface samples indicate average grades of
0.04 - 0.08 oz/t Au over an area 330 m by 250 m
with unknown vertical extent.

Epithermal Gold-Silver Veins:

4) Brucejack Penninsula Area

28 Area

DDH 28 : 1.87 m of 2.34 oz/t Au, 2.81 oz/t Ag

Pyrite Area

DDH 28 : 6.00 m of 0.58 oz/t Au, 3.53 oz/t Ag

5) South Brucejack Area

Main Stockwork

DDH 34 : 2.15 m of 0.48 oz/t Au, 1.60 oz/t Ag

Other Veins

Chip sampling, 1.0 m of 0.50 oz/t Au, 8.02 oz/t Ag

367 Area

Chip sampling, 1.0 m of 0.89 oz/t Au, 0.54 oz/t Ag

New Float Discovery

A 4 cm quartz vein with high-grade electrum, not
assayed.

Conclusions

The Breccia Zone and Snowfield Zone have potential for
at least 20 - 30 million tons of material grading 0.05 -
0.06 oz/t Au.

Epithermal veins in the Brucejack Lake area have significant strike lengths, background values of about 0.10 oz/t Au, local values of about 0.50 oz/t Au or better and isolated occurrences of very high-grade mineralization. Since only two veins or vein stockworks have been drilled with holes a maximum of 30 m apart on section, economic assessments cannot be made.

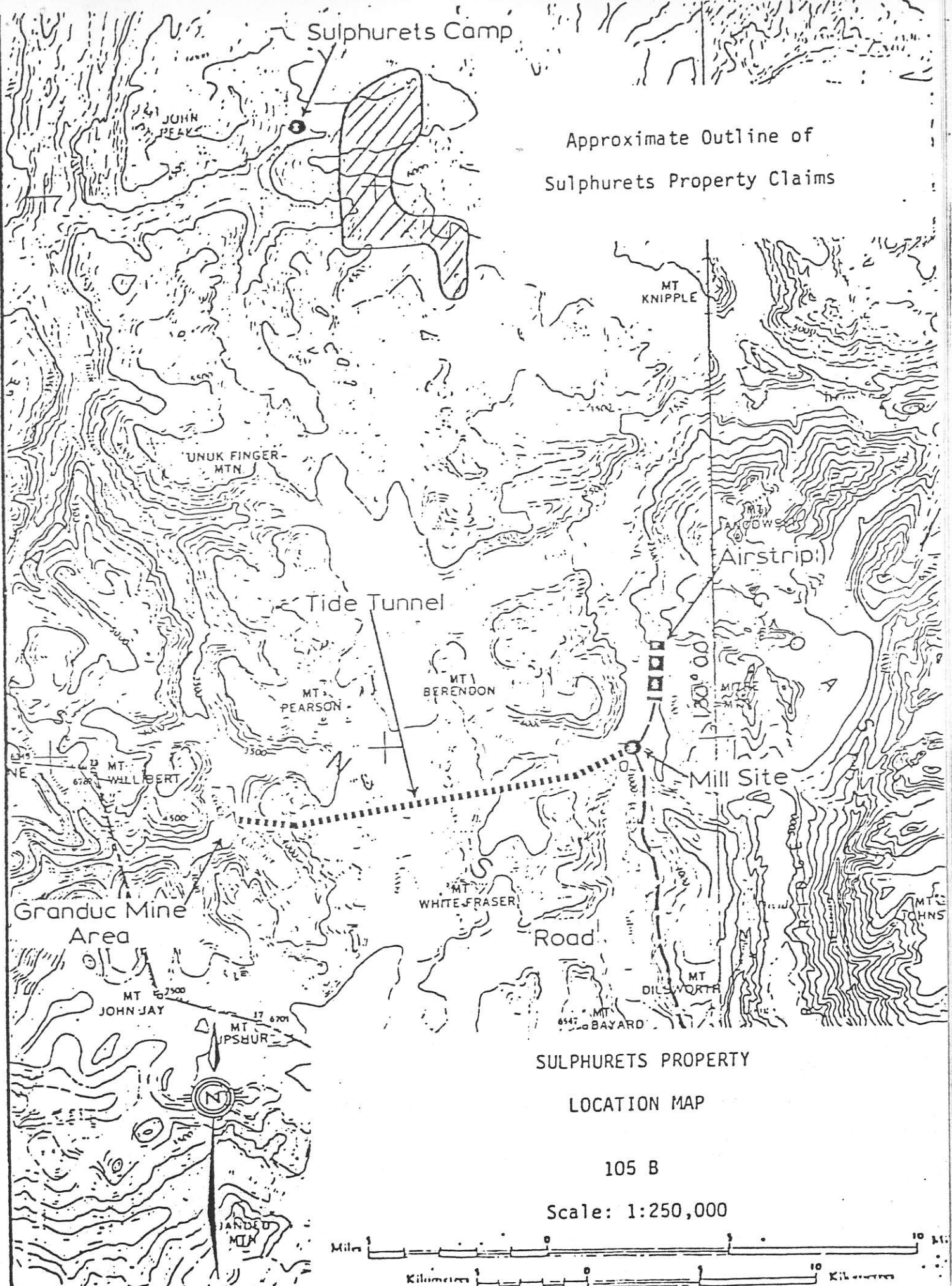
<u>Expenditures 1981:</u>	1960 - 1977	\$336,000	(Granduc)
	1980 :	553,000	
	1981 :	665,000	

1982 Program: Drilling, trenching, sampling and mapping will be recommended for at least two areas of disseminated Au mineralization and two areas of epithermal Au-Ag veins.

A preliminary proposal for the maximum amount of work that would be feasible in 1982 is 26,550 feet of drilling in 51 holes at an estimated cost of \$1,725,000.

Sulphurets Camp

Approximate Outline of
Sulphurets Property Claims



SULPHURETS PROPERTY
LOCATION MAP

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Scale: 1:250,000

