

REPORT ON
THE MARY GROUP OF CLAIMS of
ROCKLAND MINING LTD.
SILVERTON, BRITISH COLUMBIA

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by: R.W. Phendler, B.Sc., P.Eng.

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March 11, 1970.

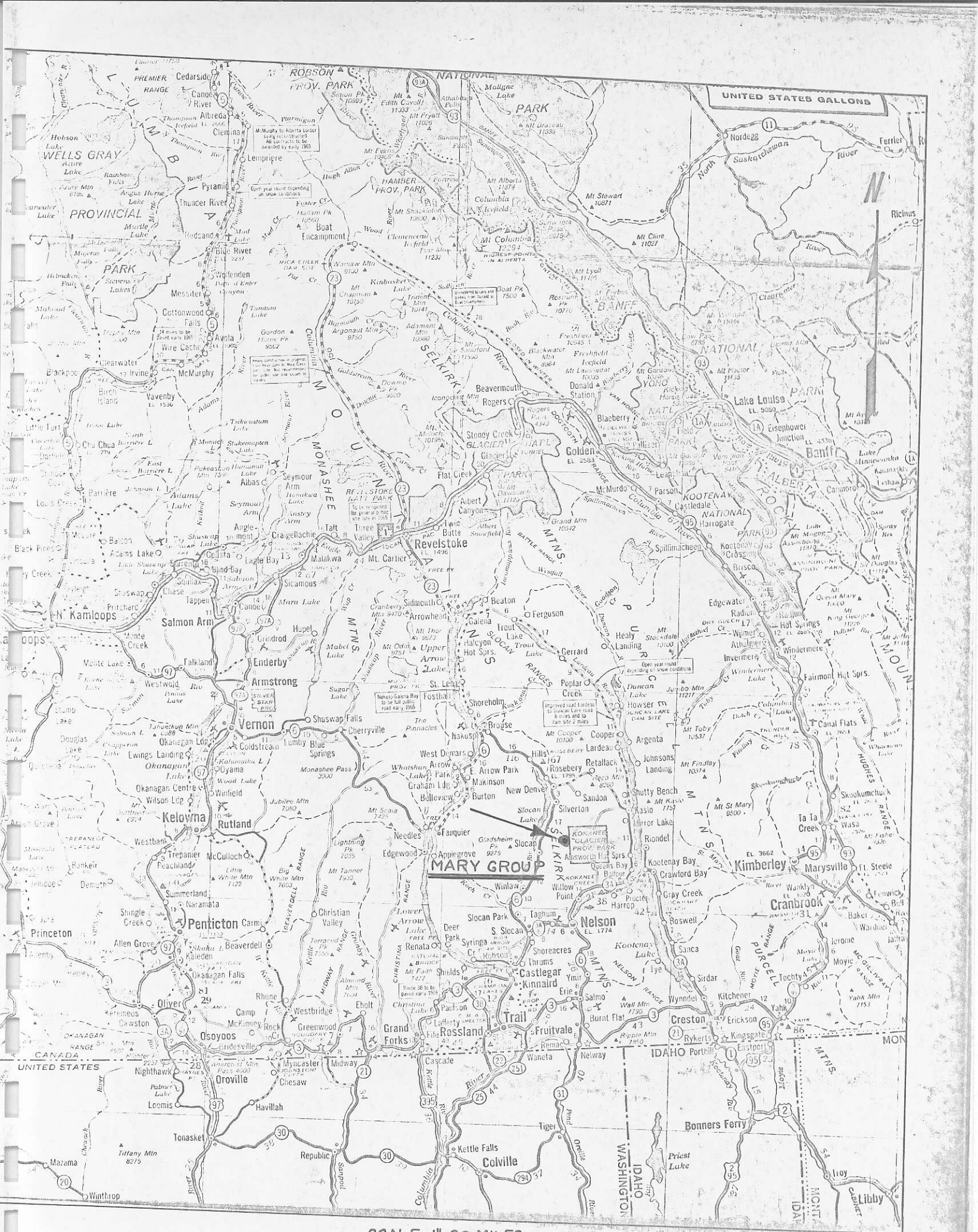
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March 11th, 1970.



UNITED STATES GALLONS



MARY GROUP

SCALE: 1"=30 MILES

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Location Map - 1" = 30 miles	Frontispiece
Fig. 2 - Map of Portal-Vein Area - Mary Group 1" = 40'	Following report

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The Mary group prospect of Rockland Mining Ltd. is in southeastern British Columbia, on the northern margin of the Nelson batholith. It is in an area containing a number of silver occurrences of somewhat limited tonnage.

The principal silver-gold values on the Mary group are found in a northerly striking, galena-bearing fracture that traverses granodiorite. The fracture has recently been exposed on surface for 450'. Width averages about two feet and channel samples averaged 0.12 oz. Au and 3.6 oz. Ag across 2.3'.

Diamond drilling in 1967 gave discouraging results. The best intersection assayed 0.20 oz. Au and 7.95 oz. Ag across 2.5'. Other intersections yielded less than 0.50 oz. Ag.

Prior to 1967 the Mary vein was drifted on for 40' to a point where faulting displaced the structure. An additional 25' was driven before work was abandoned.

Further exploratory work on the Mary vein does not appear to be warranted. The narrow widths and erratic nature of the mineralization are not considered favourable for the discovery of a commercial orebody.

SCOPE

The writer visited the property on September 24th, 1969, with C.M. Campbell, P.Eng., President of Rockland Mining Ltd. During the visit the recent trenching was examined and chip samples were taken at appropriate intervals.

LOCATION AND ACCESS

The Mary group of claims is at an elevation of 4900 feet, about eight miles northeast of Slocan and twenty miles north of Nelson in southeastern British Columbia.

Access to the property is by a dirt road which leaves the Slocan Highway midway between Slocan and Silverton. It is ten miles eastward, up the Enterprise Creek valley, to the claims. During most of the year a four-wheel-drive vehicle is required to negotiate this road.

PROPERTY AND OWNERSHIP

The Mary group consists of thirteen mineral claims as follows:

Mary 1, 2, 4, 6
Stone 1 and 3
Mary 7, 8, 9, 10, 11, 12 and 13

The first six claims are under option from Mr. and Mrs. S. Berisoff of Silverton. The other seven were staked on June 1st, 1967, for Rockland Mining Ltd.

HISTORY

Work prior to 1967 consisted of minor trenching and the driving of a sixty foot adit. Rockland Mining Ltd. acquired the ground in that year and carried out additional stripping and diamond drilling. Core recovery was poor and, although vein material was intersected in all holes, results were not encouraging enough to warrant further work. The driving of a low level tunnel was considered.

In mid 1969 extensive trenching was carried out and the vein was exposed for 450' along strike. Widths were narrow and sampling results discouraging.

GEOLOGY AND MINERALIZATION

The area in which the Mary claims are located is within and close to the north central margin of the Nelson batholith. The batholith is of granitic composition and is considered to be Jurassic or Cretaceous in age. It measures 50 miles (NS) by 30 miles. Within the batholith are numerous roof pendants of mixed sedimentary and volcanic rocks of the Slocan group of Triassic age.

The mineral showings are in a fracture containing argentiferous galena, sphalerite, pyrite and quartz. Widths vary between one and five feet with the vein averaging about two feet. It strikes N10°E and dips 55°W. The host rock is medium-grained granodiorite. Faulting is present locally.

Recent bulldozer stripping shows that the vein enters fine-grained volcanics at the south end of the trenching and disappears.

Results of the sampling carried out on September 24th, 1969, are as follows:

<u>Sample No.</u>	<u>Width</u>	<u>Oz. Au</u>	<u>Oz. Ag</u>	<u>% Pb</u>	<u>Location</u>
29229	2.0	0.60	23.6	27.40	S end of trench, near adit
29230	2.0	0.04	0.5	-	45' N of sample 29229
29231	1.0	0.01	0.7	-	106' N of sample 29229
29232	3.0	0.02	0.3	-	230' "
29233	1.0	0.27	2.4	-	305' "
29234	5.0	0.03	0.4	-	325' "
29226	-	0.95	5.1	-	Grab sample at adit
29227	-	0.15	6.3	3.33	Hand picked dump muck
29228	-	0.36	18.7	-	" " " "

Average of 6 surface samples

2.3' 0.12 (uncut) 3.6 (uncut)

DIAMOND DRILLING

In 1967 six short diamond drill holes were drilled to intersect the Mary vein a few tens of feet below the surface. Mineral intersections were as follows:

<u>D.H.</u>	<u>Width</u>	<u>Oz. Au</u>	<u>Oz. Ag</u>	<u>% Pb</u>	<u>% Zn</u>	<u>Length</u>	<u>Core Recovery</u>
#2	9.0'	Tr.	0.20	Tr.	Tr.	183'	90%
#3	1.0'	0.01	0.50	0.40	0.12	55'	25%
#4	2.5'	0.20	7.95	0.30	4.70	70'	50%
	3.0'	0.005	0.30	Tr.	Tr.		-
	5.0'	0.005	0.30	Tr.	Tr.		80%
#5	5.0'	0.01	0.05	Tr.	Tr.	50'	40%
#6	6.0'	0.015	0.05	Tr.	0.07	70'	30%
#1	-	-	-	-	-	80'	-

Total


508'

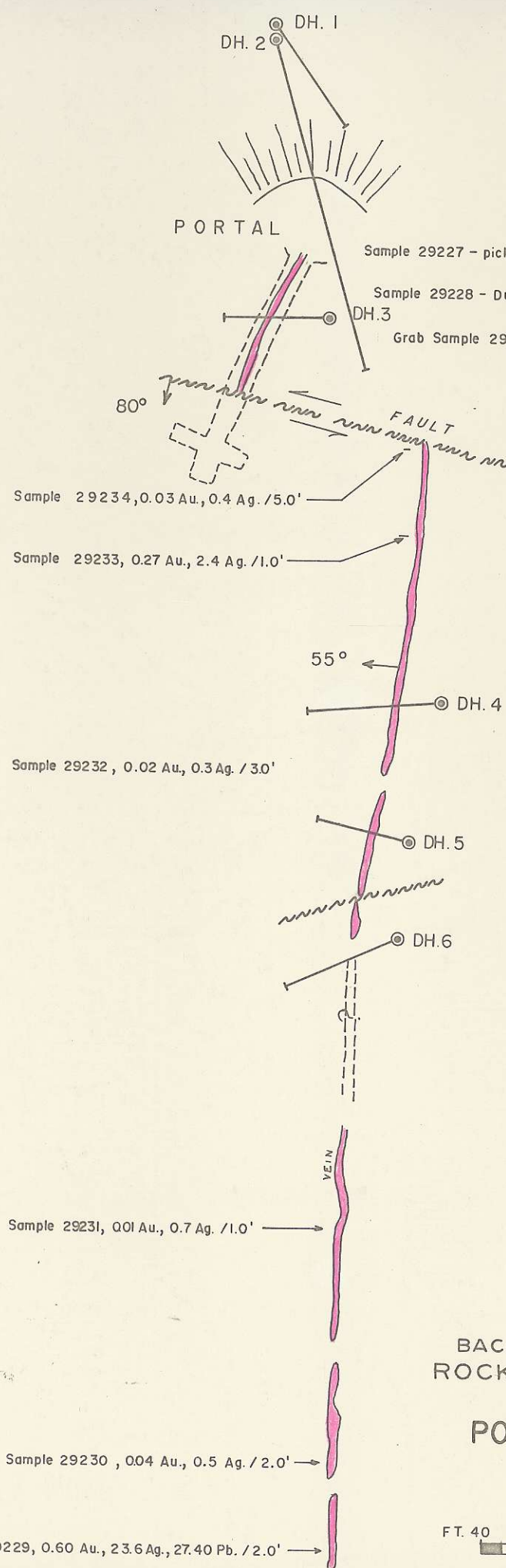
RECOMMENDATIONS

In view of the narrow widths and generally poor grade of the Mary vein, it is recommended that no further work be done.

Respectfully submitted,

BACON & CROWHURST LTD.

R. W. Phendler, P. Eng.
R. W. PHENDLER B.Sc., P. Eng.
A circular professional seal for R. W. Phendler, a Professional Engineer in the Province of British Columbia. The seal features the text "PROFESSIONAL OF BRITISH COLUMBIA ENGINEER" around the perimeter and "R. W. PHENDLER" in the center.



Sample 29227 - picked from dump, 0.15 Au., 6.3 Ag., 3.33 Pb.
Sample 29228 - Dump, 0.36 Au., 18.7 Ag.
Grab Sample 29226, 0.95 Au., 5.1 Ag.

Sample 29234, 0.03 Au., 0.4 Ag. / 5.0'

Sample 29233, 0.27 Au., 2.4 Ag. / 1.0'

Sample 29232, 0.02 Au., 0.3 Ag. / 3.0'

Sample 29231, 0.01 Au., 0.7 Ag. / 1.0'

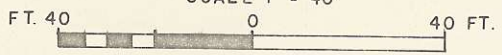
Sample 29230, 0.04 Au., 0.5 Ag. / 2.0'

Sample 29229, 0.60 Au., 23.6 Ag., 27.40 Pb. / 2.0'

BACON & CROWHURST LTD.
ROCKLAND MINING LTD.
MAP OF

PORTAL-VEIN AREA

MARY GROUP
SILVERTON AREA, B.C.
SCALE 1" = 40'



MARCH 1970