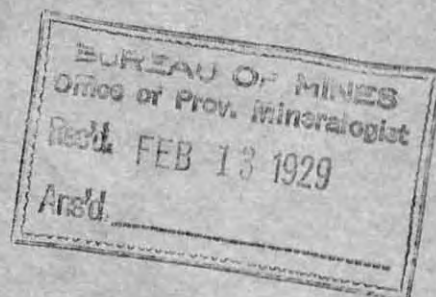


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*Report of Examination
of
GOODENOUGH GROUP
(Vancouver and Okanagan Syndicate)
North Okanagan B.C.*

*Alfred J. Goul. E.M.
Registered Professional Engineer*

*Vancouver B.C.
Feb 2nd 1929.*

PROPERTY FILE



REPORT OF EXAMINATION
of
GOODENOUGH GROUP.
Near Vernon, B.C.

Alfred J. Gaul, E.M.,
Registered Professional Engineer.

Vancouver, B.C.
February 2nd, 1929.

PROPERTY FILE

REPORT OF EXAMINATIONGOODENOUGH GROUPNear Vernon, B.C.

PROPERTY. The area comprises the following claims:

Bonanza #1	Nera	Goodenough
Bonanza #2	Morning Glory	Good
Bonanza #3	Orion	Extra Good
Covelite	Poplar	
Copper Queen	Jean	
Copper King	Leila	
Monday		
Sunday		

LOCATION: The Goodenough Group is located approximately two miles West of Okanagan Lake on the north side of Siwash Creek.

ACCESS: The property is reached by road around the North end of Okanagan Lake approximately twenty miles from the town of Vernon, B.C. Vernon is served by rail from all points by the Canadian National and Canadian Pacific Railways, being about 1.4 hours journey from Vancouver.

AREA: The property has an area of approximately 800 acres.

ALTITUDE: The altitude at the ^{Camp} ~~coast~~ and present workings ranges around 2500' above sea level and 1300' above Okanagan Lake.

TITLE: With the exception of "Goodenough", "Good", and "Extra Good" claims, the ground is held under the annual assessment requirements of the Mineral Survey Act of British Columbia. The "Goodenough", "Good" and "Extra Good" claims are held under Bond from Blurton et al, which bond has been assigned to the Vancouver & Okanagan Syndicate.

GEOLOGY: The presence of snow prevented a detailed examination of the geological conditions that prevail in this area. However the cuts and shafts that have been opened up over a considerable area show that the ore body is a contact

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metamorphic deposit in a highly silicified bed of lime. It would appear that there is close relationship between the mineralized lime and an intrusion of diorite that follows the footwall of the deposit.

The predominating metallic mineralization consists of sulphides of copper and iron in the form of chalcopyrite of primary origin. So far as the writer was able to see, there appears to be practically no great area of secondary enrichment.

The mineralization extends over a comparatively large area, and from results obtained under ground, the deposit has a dip to the North West of approximately 45° . In a number of the surface openings, ore carrying from 1% to 10% copper can be found. A few of the test cuts fail to show more than a trace of copper. An accurate survey and map of the area will probably show that these pits are located on what might be termed the hanging wall side of the vein.

The tunnel now being driven, intersected the ore body at a point approximately 110 feet from the portal, the ore coming in near the roof on the South or left hand side. The vein shows masses of chalcopyrite that could be sorted and shipped in a crude state. The tunnel continued for 15 feet more or less in this character of ore, after which the mineralization became less pronounced with masses of practically barren gangue of highly silicified lime appearing. At the present stage of development, it would appear that the richer portion of the deposit is on the diorite side of the vein and that the tunnel is midway between a drift and a crosscut.

PROPERTY FILE

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The presence of snow at this time, in conjunction with the small amount of information to be obtained in the limited underground work, prevents any reliable correlation of the ore exposures on the property. It is nevertheless an established fact now that ore exists between two horizons approximately 50 feet apart.

DEVELOPMENT: The development work so far has been concentrated on the Goodenough claim.

In addition to the surface cuts and shafts shown on sketch map attached hereto, a tunnel has been driven a distance of 130 feet from the portal to which is to be added 30 to 35 feet of open cut work to reach a full face where timbering commenced. This open cut together with first 100 feet in the tunnel passed through a light colored diorite followed by 20 feet of sheared lime, at which point the vein appeared. As stated above approximately 15 feet of the tunnel is in ore of good grade. The last five feet of tunnel is in very highly silicified lime showing less mineralization.

ASSAYS:

	<i>Gold</i> <u>AU</u> oz	<i>Silver</i> <u>AG</u> oz	<i>Copper</i> <u>CU</u> %
#1 Face of Tunnel Visible Chalcopryrite eliminated General sample of face	.02	.20	1.5
#2 5'-0" wide in footwall side	.04	0.5	3.5

CAMP:

A well built log cabin exists suitable for the small crew at present working on the property. The permanent camp will probably be best located at a lower altitude North of the present location, inasmuch as the extension of the ore body will be found in a Northerly direction from the present

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tunnel. There will also be an easier grade from the Lake level.

MILL SITE: Suitable mill site can be obtained on the shore of Okanagan Lake and the mine workings connected by means of an aerial tramway not more than two miles long. Concentrators etc. would then be loaded into cars direct from the mill.

TIMBER: Ample timber for mining and other purposes on the property.

POWER: Hydroelectric power sufficient for all purposes can be developed on Siwash Creek during the greater part of the year. During the course of development of the mine, measurement of the water flow should be taken in order to determine the ^{Season} ~~time~~ and amount of the minimum flow.

Power necessary for preliminary development can be generated by means of Diesel or semi-Diesel plant.

RECOMMENDATIONS: In view of the extensive exposure of ore in the surface openings, it would appear that the most logical, and economical method of prospecting the area will be by means of diamond drilling. If the ground is carefully surveyed and all openings connected up, a comprehensive scheme can be laid out on paper. The holes will not average over 100 feet in depth.

It is the opinion of the writer that the area is admirably suited for Radio survey which system would define the ground carrying the deposit. The survey could then be followed up with drilling to ascertain the values carried in the ore.

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During the progress of the present tunnel work, it is strongly recommended that samples be taken at least every five feet of advance and a permanent record be kept of the assays thereof.

CONCLUSION: From what can be seen on the surface of the Goodenough group, it would appear that this property has possibilities of developing into a large producer of good grade copper ore, much of which will not need to be concentrated but shipped in its crude state.

At present there is no means of arriving at probable or possible tonnage with anything like approaching accuracy. No ore is blocked out, therefore there is no basis to work on. Having workable ore at two points 50 feet vertically apart and exposed over an area of several acres, in itself points to very considerable tonnage of unknown grade. It would therefore seem advisable, as soon as the snow is off the ground, to survey and ascertain the limits of the mineralized area, preferably by use of Radiore Survey Method and follow up with the diamond drill.

Meanwhile it will be advisable to continue the present tunnel work by following as near as possible the footwall of the vein as it appears in the tunnel, that is to say, come back from the present face 30 feet to the point where the ore enters the tunnel and drift South-Westerly keeping the footwall on the left hand side of the drift.

A sum of \$ 15000.00 spent on survey and drilling after the snow leaves should demonstrate to a reasonable degree in a comparatively short time the potential value of this

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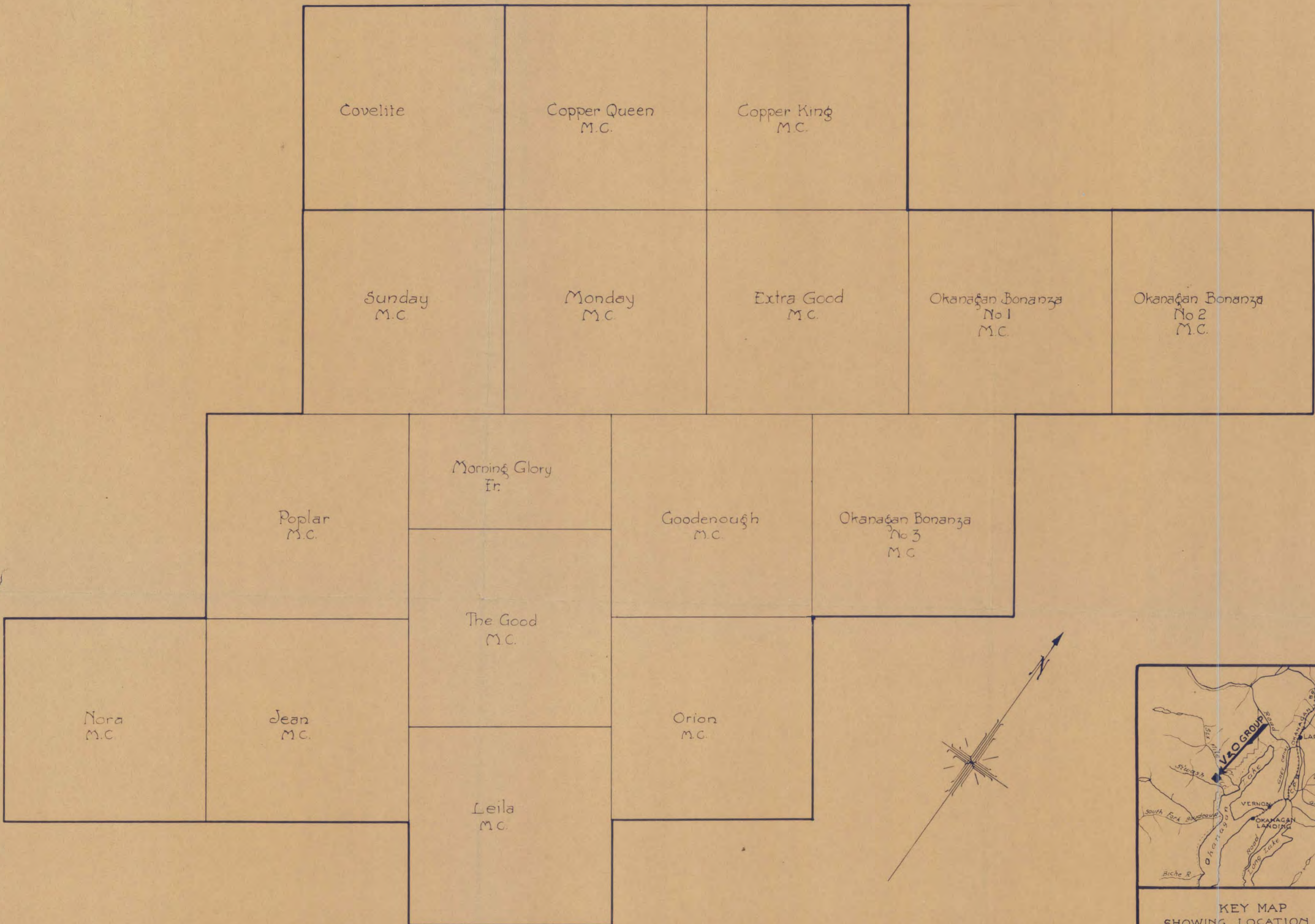
property.

Respectfully submitted

Original signed
Alfred J. Gaul E.M.

Registered Professional Engineer
British Columbia

Vancouver, B.C.
February 2nd, 1929.



KEY MAP
SHOWING LOCATION OF
V&O MINING GROUP

— V&O MINING SYNDICATE PROPERTIES —
— NORTH OKANAGAN —
— BRITISH COLUMBIA —

— SCALE 500' = 1" —

