

**ARCHER, CATHRO**  
**AND ASSOCIATES LTD.**  
**CONSULTING GEOLOGICAL ENGINEERS**

CASCA BUILDING, WHITEHORSE, Y.T. 667-4113

BENTALL CENTRE, VANCOUVER, B.C. 688-3022 OR 522-1562

POST OFFICE BOX 1708  
WHITEHORSE, Y.T.

**EXAMINATION OF**  
**ROY AND ERIC CLAIMS**  
**NOGAR MINES LTD.**

**MILLHAVEN BAY, LAKE BENNETT AREA, YUKON.**

R.J. Cathro, P. Eng.

October 1, 1967

017748

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INTRODUCTION

Following the recommendations of C.K. O'Connor, P. Eng., F.M. Smith and R. Carpenter examined this property between July 22 and 28. The writer examined part of the property on July 26 and 30, 1967. The second visit was made in company with Ed Mueller, the owner of the four oldest claims on the property.

PROPERTY

Mogar Mines Ltd. owns 40 contiguous claims, the ERIC group, and in addition, has under option from Ed Mueller of Whitehorse, the 4 adjoining ROY claims which cover most of the expired crown granted claims. These claims are registered in Whitehorse, Yukon as follows:

<u>Claim Name</u>	<u>No. of claims</u>	<u>Grant Number</u>	<u>Owner</u>	<u>Expiry Date</u>
Eric 2,4,6, 8,10,12,14	7	98626-98632	W. Atlin	May 1/68
Eric 15-22	8	98633-98640	J. Johns	"
Eric 23-30	8	98641-98648	W.C.Wetherall	"
" 1,3,5,7, 9,11,13.	7	Y179-Y185	T. Smarch	"
Eric 31-34	4	Y186-Y189	P. Johns	"
Eric 35-40	6	Y190-Y195	P. Johnny	"
Roy 1-4	4	92169-92172	E. Mueller	June 28/68

LOCATION AND ACCESS

The property is situated on the west shore of Millhaven Bay, on the north side of the West Arm of Lake Bennett (see Figure 1). It lies within N.T.S. mapsheet 105 D-2, at  $60^{\circ}06'N$  and  $134^{\circ}58'W$ , and is 45 miles south of Whitehorse.

Present access is by boat from Carcross, a distance of 12 miles, or by aircraft from Whitehorse, the nearest charter base.

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HISTORY

The early history of these showings has been lost. The only record of previous work is a survey plan of three Crown Granted mineral claims, the Azurite, Malachite and Cromwell, which is on file in the Mining Recorder's Office, Whitehorse. The claims were surveyed in 1908 which suggests that the original work was done about the same time as the original activity in the neighbouring Windy Arm and Wheaton River areas. In G.S.C. Memoir 312, Wheeler made note of two old showings on the property (p. 137) and gave as his source of information Dr. Aaro E. Aho, who at that time was employed by White Pass and Yukon Railway. A check of White Pass files showed that an adit was supposed to be present on the property. This

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proved difficult to locate and was only found with the assistance of Mr. Mueller. No other records exist of the original owners or early history of these workings. A sawmill and logging camp were once operated on Millhaven Bay and the surrounding area is crossed by numerous old trails and roads.

. . . 4.

GEOLOGY

The property lies along the eastern contact of the Coast Range Batholith which is here composed of granodiorite. The batholith is bounded by greenstone and minor pyroclastics, assigned to the Upper Triassic Lowes River group (see G.S.C. Map 1093 A and Memoir 312).

The volcanic rocks are structureless and typically dark green and fine-grained. A suggestion of pillow structure was seen near the south showing. Near the contact the intrusive becomes more dioritic in composition.

NORTH SHOWING- is related to a strong fault which strikes E-W, directly across the trend of the hillside, and form a pronounced lineament or gully. The horizontal offset on this fault is about half a mile. A number of rusty gossan zones are associated with the fault and a sample of sandy soil formed by the weathering of these goassans was assayed geochemically and contained 550 ppm copper. An adit was driven on a weak vertical shear zone which cuts a gossan zone<sup>in</sup> volcanics, near the 4000 foot elevation. The adit, which is at least 100 feet in length, is in good condition to the 50 foot point where it is partially blocked by a small cave. Most of the dump material has been removed by snow slides and only a few small pieces of copper oxide were seen. A character sample of the best material on the dump assayed 0.76% copper, 0.1 ozs/ton silver and trace gold.



5.

Further downhill two veins occur. One strikes roughly parallel to the fault and contains minor disseminated galena and chalcopyrite in a quartz-carbonate gangue. It is well exposed for a length of 100 feet on a steep cliff. A grab sample of the best mineralization seen assayed 6.9% copper, 4.6% lead and 9.3 ozs/ton silver. However, the vein structure is very weak and irregular and the mineralization occurs as short, erratic, lenses and this showing has no economic potential. The other vein strikes parallel to the contour of the hill, a little east of north, and is filled by mangoniferous siderite. No sulfides were seen and a grab sample assayed trace-in gold, silver and lead. A soil sample downhill was analyzed geochemically and returned 240 ppm copper, 116 ppm lead, and 750 ppm zinc.

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SOUTH SHOWING- (see Figure 2)

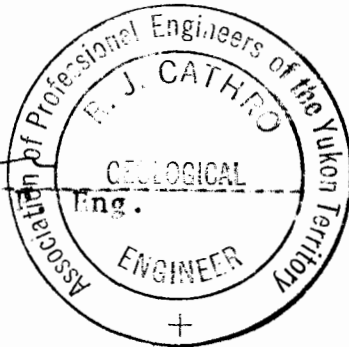
A number of lensey quartz-carbonate veins occur in the greenstones in this area. None of them are more than twenty feet long or one foot wide. Only minor amounts of arsenopyrite was seen and a grab sample of the strongest vein returned trace for gold, silver and copper. This vein strikes N25E and crosses an old claim line, passing beneath a small patch of shallow sandy overburden to the north, from which it does not reappear. Sixteen soil samples were taken from this small overburden area. They are plotted in plan on Fig. 2 and the geochemical assays are shown on the following page.

SUMMARY AND CONCLUSIONS

Several small veins and an old adit were found in two areas on the Mogar Mines property. None of these contain significant mineralization and no further work is justified.

Respectfully submitted,  
ARCHER, CATHRO & ASSOC. LTD.

  
R.V. Cathro,



RJC:pc

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WHITEHORSE, Y.T.

Oct. 1, 1967

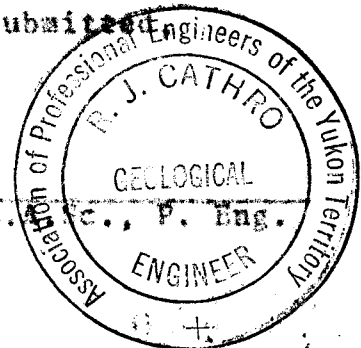
## CERTIFICATE

I, Robert J. Cathro, with business and residential address in Whitehorse, Yukon, do hereby declare that:

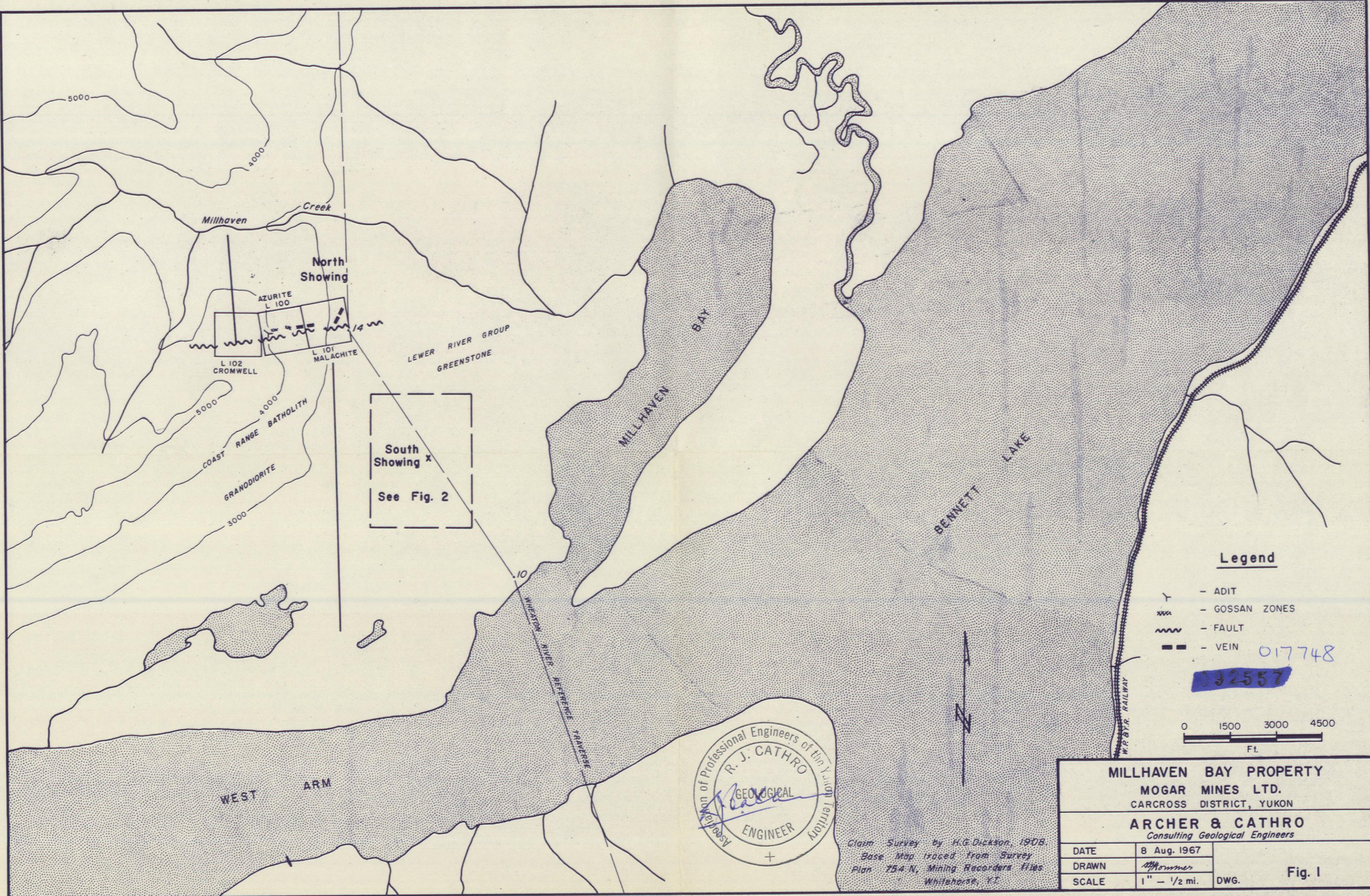
1. I am a consulting geological engineer.
2. I am a graduate of the University of British Columbia, 1959.
3. I am a registered professional engineer in the Yukon and British Columbia.
4. From 1959 to 1966 I was engaged in mining and exploration geology and held positions of responsibility with United Keno Hill Mines Ltd., Giant Yellowknife Mines Ltd., and Eldorado Mining and Refining Ltd.
5. I have personally supervised the examination of this property.
6. I have no interest, nor do I expect to receive any interest, direct or indirect, in any properties or companies referred to in this report.

Respectfully submitted

*R. J. Cathro*  
R. J. Cathro, B. Sc., P. Eng.



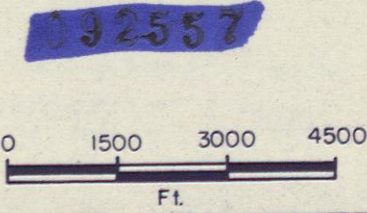
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South Showing x  
See Fig. 2

**Legend**

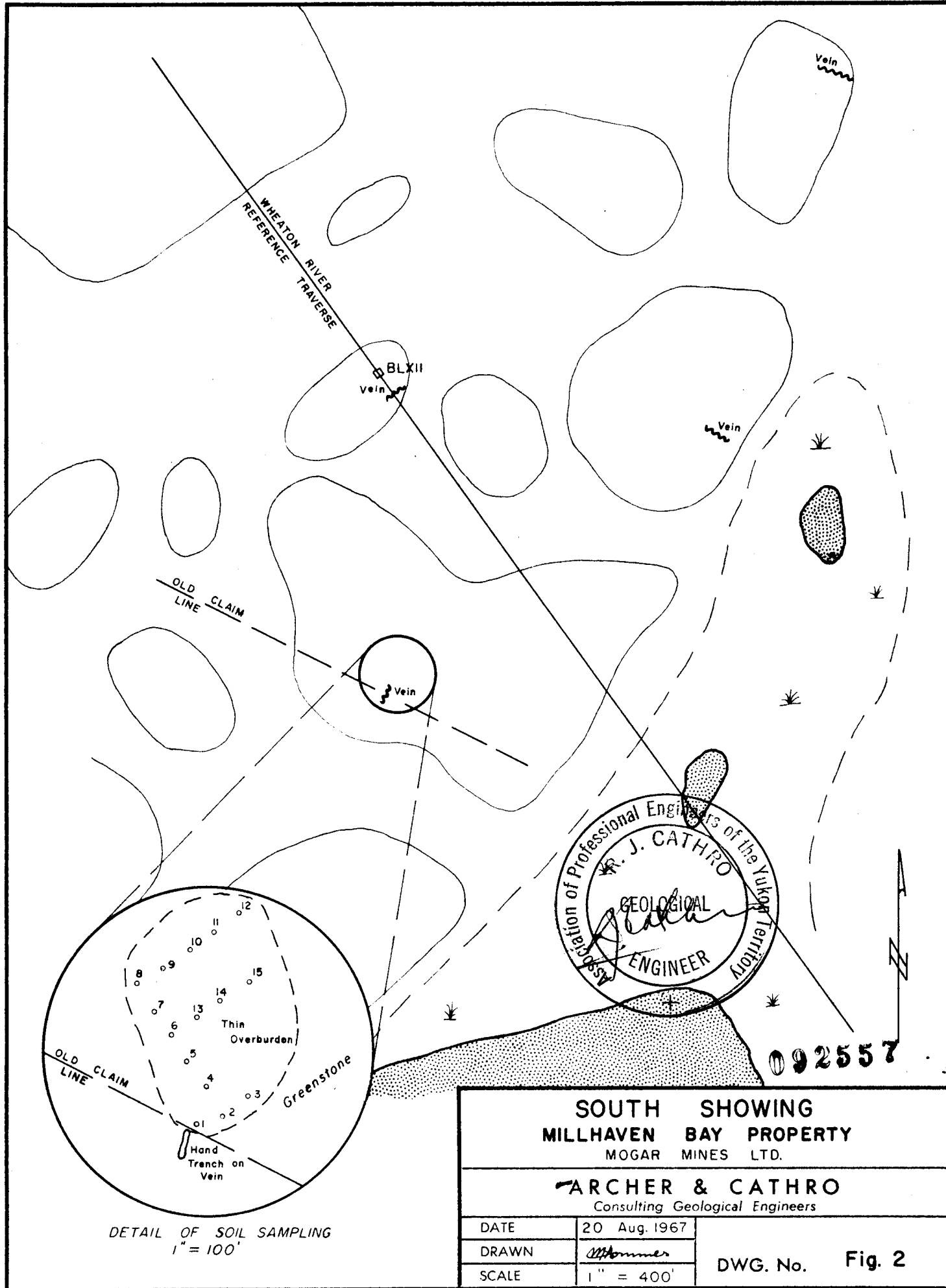
- ADIT
- GOSSAN ZONES
- FAULT
- VEIN 017748



Association of Professional Engineers of the Yukon Territory  
R. J. CATHRO  
GEOLOGICAL  
ENGINEER

Claim Survey by H.G. Dickson, 1908.  
Base Map traced from Survey  
Plan 754 N, Mining Records Files  
Whitehorse, Y.T.

<b>MILLHAVEN BAY PROPERTY</b>		
<b>MOGAR MINES LTD.</b>		
CARCROSS DISTRICT, YUKON		
<b>ARCHER &amp; CATHRO</b>		
Consulting Geological Engineers		
DATE	8 Aug. 1967	Fig. 1
DRAWN	<i>Archers</i>	
SCALE	1" = 1/2 mi.	
		DWG.



DETAIL OF SOIL SAMPLING  
1" = 100'

**SOUTH SHOWING**  
**MILLHAVEN BAY PROPERTY**  
MOGAR MINES LTD.

**ARCHER & CATHRO**  
Consulting Geological Engineers

DATE	20 Aug. 1967
DRAWN	<i>M. Munn</i>
SCALE	1" = 400'

DWG. No. **Fig. 2**