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REPORT ON THE

GEOLOGY

OF

THE COWAN GOLD PROPSECT PIFHER TOWNSHIP, THUNDER BAY MINING DIVISION, ONTARIO

BY

LOUISE K. ECCLES,

GREAT WESTERN PETROLEUM CORPORATION

RECEIVED

AUG 1 6 1983

MINING LANDS SECTION

July 29, 1983 Vancouver, B.C.

Louise K. Eccles Geologist

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INTRODUCTION

Geological mapping was done on the Cowan Gold Property subsequent to magnetometer and VLF-EM16 surveys and was aided using the same metric grid as the geophysical program.

The mapping was aimed at determining structural associations of the mineralized quartz veins already known on the property and at developing a geologic map for the claim area. It was hoped that new mineralized veins would be discovered during the course of systematic mapping although detailed prospecting is still recommended as future work on the claims.

No geological mapping has been done on the claims surrounding the main mineralized (No.1 and No.2 veins) veins and this program has given tremendous insight on various geological associations seen in the vicinities of the main showings.

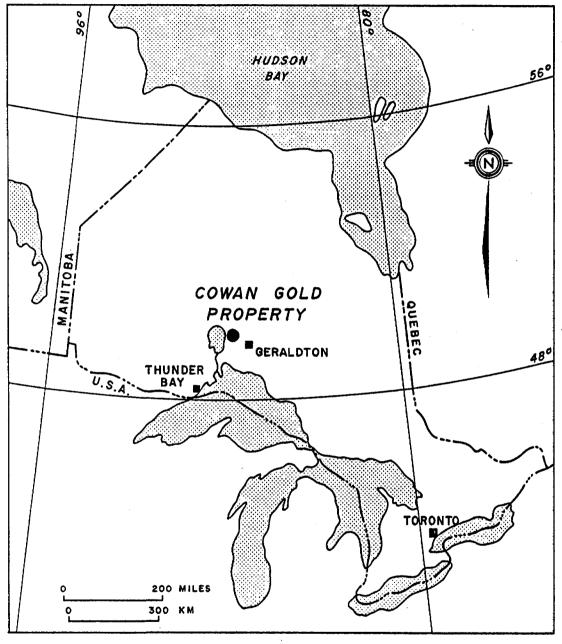
Geological mapping was done at a scale of 1:2,500 from May 31 to June 19, 1983. A total of 49 km of line was traversed utilizing a 30 metre by 100 metre grid (station spacings). Detailed mapping in the vicinities of the No.1 and No.2 veins was done on a scale 1:500 and is plotted on Figures 3 and 4, located in the pocket.

LOCATION AND ACCESS

The Cowan gold property, located 16 km. east of Lake Nipigon in the central part of Pifher Township is bounded by latitudes 49° 47' and 49° 48.5' and longitudes 87° 48.2' and 87° 50.9'.

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The claims are within 30 km by road from the TransCanada highway, the CN railway and major hydro and natural gas transmission lines. The nearest major population center is Thunder Bay, located about 200 km, by road southwest of the claims.



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FIGURE I - LOCATION - COWAN GOLD PROPERTY

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To access the claims by road, one travels east from Thunder Bay, along highway 11. About 20 km. east of the town of Beardmore, highway 801 is to be followed northward for 22 km, crossing the bridge over Crooked Green Creek. Less than a kilometre past (north of) the Crooked Green Creek bridge, a dirt road leads to the south and on to the property. All roads can be utilized by two-wheel drive vehicles from mid-May through November, however during winter months secondary roads are not graded and travel is limited depending on the snow conditions. Refer to Figure 1.

CLAIMS

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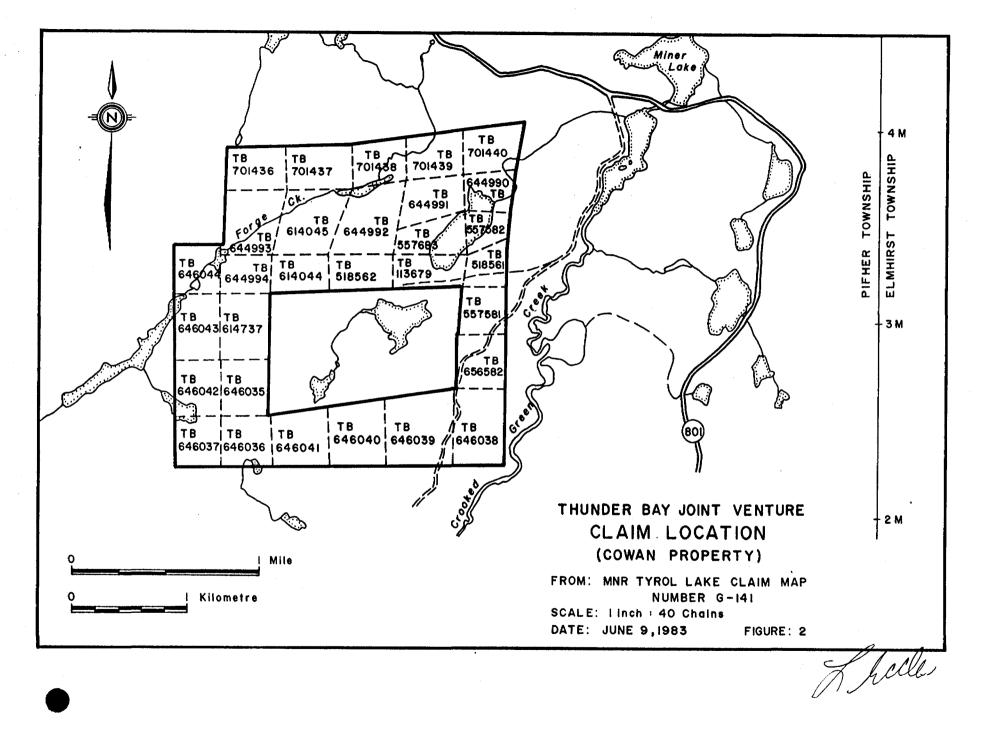
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Geological mapping was performed on all the mineral claims listed below and patented mining claim TB 113679.

			EXPIRY DATE	
		NO. OF	(before filing geo	
<u>CL</u>	AIMS NOS.	CLAIMS	physical work)	OWNER AND ADDRESS
ΤB	518561- 562	2	June 11, 1983	Northern Concentrators 4350 Coppin Rd.
			•	Thunder Bay, Ontario P7C 4V9
ͲB	557581-			
10	583	3	Oct. 22, 1983	lt
тв	614044-			
	045	2	Aug. 17, 1983	91
ΤB	614737	1	Aug. 31, 1983	u
ͲΒ	644990-			
	994	5	Dec. 15, 1983 (under extension)	**
ΨB	646035-			
11	044	10	May 28, 1983	n
ͲВ	656582	1	Sept. 13, 1983	11
ͲВ	701436-			
	440	5	March 2, 1984	M.F. Cowan 5196 Sonora Dr. North Vancouver, B.C.

V7R 3V6

- 2 -



The recorded owners of the 29 contiguous claims (shown on Figure 2) are listed above. The property is under option to the Thunder Bay Joint Venture (TBJV) which consists of a 50-50 interest between Great Western Petroleum Corporation (#718-744 West Hastings Street, Vancouver, B.C., V6C 1A5) and Anglo Canadian Mining Corporation (#713-744 West Hastings Street, Vancouver, B.C., V6C 1A5). Great Western is currently managing the Joint Venture and is performing the work requirements on the claims.

HISTORY

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A greenstone belt of Archean aged volcanic and sedimentary rocks between Beardmore and Geraldton has produced approximately 4 million ounces of gold from 18 mines in the area between 1934 and 1970. "The Beardmore-Geraldton gold camp rates among the top five gold camps in the Canadian Shield..." (Mason and McConnell, 1983).

The Cowan gold propsect, located near the northern boundary of the Beardmore-Geraldton volcanic greenstone belt was first discovered in 1946. Since that time, although records of work are sketchy and incomplete, the property has undergone development work in the form of diamond drilling, trenching and stripping, principally in the vicinity of the No.1 vein. (Refer to Figure 5A).

In 1966, Crooked Green Creek Mines Ltd. located a small head frame and shallow (35 feet or 12 metres deep) shaft on the No.1 vein and a mill and mining camp on the property. No figures are available concerning the amount of ore processed or how long the operation lasted.

In 1972, Algoma Development Co. undertook a small opencut mining and milling operation on the No.1 vein. In 1981 the company, renamed Northern Concentrators Ltd., constructed

- 3 -

a 25 ton per day mill at Thunder Bay. Mine production from the No.1 vein between 1980 and 1982 is reported to be 915 tons.

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Since the beginning of May, 1983 exploration work has been undertaken on all the claims comprising the Cowan gold prospect. (Refer to Figure 2). To date a metric grid, magnetometer, and VLF-EM16 surveys and geological mapping have been completed. Diamond drilling is currently underway on the No.1 and No.2 veins and should be completed in July.

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The Beardmore-Geraldton area is underlain by Archean metavolcanic and metasedimentary rocks of the eastern Wabigoon volcanic belt, a linear subdivision of the Superior structural province of the Canadian Shield, (Goodwin, 1970). A thick, homogeneous sequence of Quetico belt metasedimentary rocks is in contact with the south boundary of the Wabigoon belt and both belts are flanked on the north and south by later granitic rocks. Refer to Inset 1 - Figure 5A.

Felsic and mafic dykes and sills intruded the Wabigoon belt which in turn was folded about east-west axes. Youngest rocks in the area are late PreCambrian diabase dykes and extensive diabase sheets near Beardmore and Lake Nipigon.

The layered rocks of the Wabigoon Subprovince consist of broad bands of metasediments (Conglomerates, greywackes, arkose and slates) of Timiskaming Age interfingered with basic to acidic metavolcanics of Keewatin age.

Numerous gold deposits occur in the metavolcanic and metasedimentary rocks of the Wabigoon Subprovince, which is often referred to as the Beardmore-Geraldton greenstone belt. The most significant gold deposits found to date are structurally controlled, located in quartz veins, breccia and shear zones close to the southern boundary of the Wabigoon belt, specifically, in the Geraldton area where metawackes, iron formation and dacitic rocks are at least spatially related to felsic and mafic intrusions.

PROPERTY GEOLOGY

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The Cowan gold prospect lies near the northern boundary of the Beardmore-Geraldton greenstone belt and is underlain by andesitic to basaltic flows interfingering with rhyolitic to dacitic tuffs and flows. (Refer to Inset 1 - Figure 5A). Large bodies of feldspar porphyry outcrop mostly in the northeastern part of the claim block and are believed to be feeder stocks or dykes for the more acidic flow rocks found on the claims.

Generally, the west half of the claim block is underlain by basic to intermediate lavas. Minor, narrow bands of rhyolitic tuff are seen in this area but are usually closely associated with dykes of feldspar porphyry. The topography in the west half of the claim block is typically higher in relief and steeper than in the eastern areas underlain by rhyolitic rocks. This is probably due to the weathering effects of the more basic rocks. Refer to PLATE 1.

Massive rhyolite outcrops in the south central part of the claim block. Typically this rock forms low, hummocky topography with bedrock exposures forming elongate ridges rising only small elevations above swamp level. Refer to PLATE 2.

Where attitudes were obtainable from outcrops of banded, tuffaceous rocks, bedding is seen to be generally striking westnorthwesterly with dips moderately to steeply northward. Local variations of this do occur however as the whole area has undergone a large amount of deformation. It is believed that many of the rhyolitic rocks are older than the more basic varieties (or at least the acidic event(s) preceeded the basic event(s) as unconformable contacts were observed where clasts of rhyolite were contained in andesitic bodies of rock or andesitic pillows were injected into layers of rhyolitic tuff. See PLATE 4.

Abundant blue-grey and white quartz veins occur in all rock types and range in size from a few millimetres to several metres. The large veins can often be traced a few tens of metres. Refer to PLATE 3.

Descriptions of specific rock types found on the property are listed below, from youngest to oldest.

UNIT 5 - Diabase Dykes

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The youngest rocks observed on the property are diabase dykes which intrude all other units. Only two dykes were observed on the claim group, in the south central part of the grid area. (Refer to Figure 5B). These dykes range between .6 and 3 metres wide.

Typically these dykes are continuous over a long distance. The largest dyke observed on the Cowan property was traced the width of the grid, for over 500 metres. Both dykes trend north-northeasterly.

Diabase has a distinct rusty weathering 'rind', due to oxidizing of a large amount of finely disseminated magnetite in the rock. The rock is medium grained and black on the fresh surface. These rocks are the most magnetic on the property and are probably responsible for two isolated magnetic highs in the southwest quadrant of the grid. Refer to geophysical report, July 1983.

UNIT 4 - Mafic Intrusive

Mafic intrusive rocks have a gabbroic composition with mafic phenocrysts (pyroxene (?)) that are very coarse grained, (up to .5 cm in diameter). The rocks outcrop as small elongate bodies and are always closely associated with the fine to medium grained andesitic rock. It is thought that the mafic intrusives may represent feeder stocks or dykes for the more mafic volcanic rocks which outcrop on the property.

Several bodies of mafic intrusive outcrop in the west half of the property and are easily recognized by the pitted weathering surface caused by the erosion of the coarse grained, mafic phenocrysts. The finer gained matrix, composed mostly of feldspar is more resistant than the phenocrysts.

UNIT 3 - Andesite/Basalt

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Andesitic to basaltic rocks observed on this property are fine to medium grained, dark green and massive with no distinct banding except that caused by minor foliation.

Andesitic rocks in contact with rhyolitic rocks, post date the acid event. Clasts of rhyolite are contained in the andesitic bodies of rock at contact boundaries between the two units and andesitic pillows are seen injected into rhyolitic tuffs (PLATE 4). Subvolcanic dykes of andesite are seen cross-cutting bedding in the rhyolitic tuffs, but these are believed to be feeders to the flows which dominate the andesitic outcrop area.

Coarser grained varieties of andesite are thought to be either the intrusive equivalent to the finer grained flow rocks or the center of flows which have had more time to cool, allowing for coarser texture.

The andesitic unit weathers a medium to dark grey colour and outcrops mostly in the west half of the map area. (Figures 5A and 5B). The topography in the west half of the claim block is typically higher, steeper and more rugged than areas to the east underlain by dominantly rhyolitic rocks.

Occasionally the rock contains disseminated pyrrhotite and/or minor chalcopyrite, however rock samples analyzed by geochemical methods have failed to give anomalous precious metal values.

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White and blue-grey quartz veins cross cut these rocks but, to date, have shown no significant amount of mineralization unless, as in the areas of the No.1 and No.2 veins, andesitic rocks are spatially related to rhyolites and feldspar porphyries.

UNIT 3 - P - Pillow Lava

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Interlayerd with the massive, andesitic flow rock are several thick bands of pillowed lavas of andesitic to basaltic composition which trend in an east/west direction. Typically these lavas are distinctly finer grained and unfoliate compared to the more abundant andesitic rocks.

Pillows, averaging 1/3 metre long and 10 cm wide have been stretched so that they are elongated in an east/west direction. These rocks are dark green and weather with black to brown rims on fractures and around some pillows.

Pillow lavas are most commonly observed in the south western portion of the mapped area along prominant, east/west trending ridges. In one locality, in the southwest area of the grid, pillows are seen injected into tuffaceous rhyolitic rocks - See PLATE 4.

UNIT 2 - Feldspar Porphyry

This rock is seen to have both extrusive and intrusive characteristics depending on where it is located on the property. Commonly, it is closely associated with the rhyolitic unit (described below) and may represent the intrusive equivalent of the acid volcanics.

Generally, the rock can be described as a 'crowded' porphyry with abundant, well defined white feldspars set in a dark grey fine grained groundmass. A small proportion of the phenocrysts are hornblende and occasionally quartz eyes. The hornblende phenocrysts are smaller than the feldspars and are often partially or completely altered to chlorite. Commonly the weathered surface of the rock gives the only indication the rock is porphyritic as the bleached white feldspars stand out well against the grey groundmass. On a fresh broken surface the rock can be easily mistaken for massive rhyolite.

One large body of feldspar porphyry outcrops on the property, specifically in the eastern most area just north of the baseline (Refer to Figure 5A). This particular body of rock is thought to be a stock of feldspar porphyry. Long linear bodies of this unit traverse across some of the north central claim areas and these are thought to be dykes coming off the main intrusive mass, mentioned above.

Occasionally the rhyolitic rocks have small feldspar phenocrysts and these may represent the extrusive equivalent of the more obvious crowded feldspar porphyry.

Outcrop areas of feldspar porphyry are commonly cut by blue grey quartz veins ranging from 1 cm to 1 metre wide.

UNIT 1 - Rhyolite

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Acid volcanic rocks, outcropping on the property can be broken down into two general subdivisions, each with rocks varying in composition from rhyolites to dacites. For the purpose of this work the writer has not distinguished dacites from rhyolites or any intermediate rock types but has distinguished the tuffaceous varieties from the more massive flow rocks.

1A - Massive Rhyolite - This rock is fine grained, medium to dark grey and very hard and siliceous. It outcrops in abundance in the south central and southeast areas of the grid (Refer to Figure 5B).

The rock typically weathers light grey but darker varieties can sometimes be mistaken for andesite if the lighting is not right when mapping. No foliation or flow structures were observed in this rock. Typically the rock outcrops in low, hummocky terraine as elongate ridges surrounded by swamp. Refer to PLATE 2.

<u>1B - Rhyolitic Tuff</u> - Distinct banding is usually apparent on the weathered surfaces of tuffaceous varieties of rhyolite. Individual bands alternate between cherty and fine grained porphyritic (crystal tuffs?) textures with colour variations from light grey to green-grey. The rock commonly weathers white to light green-grey depending on the compositions of the various layers (The most siliceous layers weather white). The dominant trend of the banding (bedding) is striking west-northwesterly with moderate to steep dips to the north east.

The rock is very hard and siliceous and commonly contains white and/or blue grey quartz veins subparalleling the bedding.

The No.2 vein is closely associated with this unit, subparalleling the bedding. Refer to detailed geology for No.2 vein area - Figure 4.

<u>1C - Rhyolitic Lithic Tuff</u> - This rock, composed of elongated fragments of feldspar porphyry and tuffaceous varieties of rhyolite, set in a fine grained or porphyritic rhyolitic groundmass outcrops in the north-eastern and southern-most(central) sectors of the claim group. Fragments are elongated in the same general direction as bedding attitudes observed during mapping and are distinct on the weathered outcrop surface.

MINERALIZATION

At least 2 quartz veins, mineralized with visible gold, chalcopyrite and pyrrhotite have been identified and explored on the Cowan property. These veins, referred to as No.1 and No.2 veins, averaging .2 to .3 metres wide, can be traced over lengths of 90 metres for the No.1 structure and 50 metres for the No.2 structure. Refer to PLATES 5 and 6 and Figures 3 and 4. Both veins appear to occupy fault structures and are closely associated with feldspar porphyry dykes and rhyolitic volcanics. Mineralization in the veins is erratic and patchy and occurs as massive blebs of sulfides often associated with visible grains of gold. Hanging-and-foot-wall rocks bordering the veins have disseminated pyrrhotite and chalcopyrite mineralization and carry anomalous amounts of gold up to several metres away from the vein.

During the course of mapping several new mineralized veins were identified on the property which carry anomhous gold and/ or copper values. These veins have not yet been properly sampled however, values for gold range up to .79 oz per ton from one grab sample taken from a vein hocated on L2+00W @ 6+60N. Refer to Figure 5A.

Several occurrences of wide (up to 1.5 metres) white quartz veins with disseminated chalcopyrite and pyrite occur on the property, specifically on L2W at 4+50N, 4+20N and 2+70N and just west of L2E at about 11+00N (PLATE 3). To date, no anomalous gold values have been found associated with these veins, however more thorough sampling is warranted due to the erratic nature of the mineralization in the veins.

An interesting area with abundant, wide (up to 4 metres) blue grey quartz veins which can be traced for over 50 metres, is located in the central part of the southwest quadrant of the grid. (Figure 5B). To date, no precious metal mineralization has been found associated with these veins, however, more thorough sampling and trenching is warranted, once again, due to the erratic nature of mineralization of these veins.

CONCLUSIONS AND RECOMMENDATIONS

Quartz veins on the Cowan property, known to be mineralized with visible gold, chalcopyrite and pyrrhotite, give erratic values for gold when sampled at selected intervals. The erratic nature of the mineralization in the known veins, poses problems when surface sampling new veins in the area which are seemingly unmineralized (See PLATE 7). There are numerous quartz veins on the Cowan property which should be further explored. Those mentioned under the heading 'Mineralization' should be the first areas explored by blasting, trenching and backhoeing followed by diamond drilling.

Several of the veins found have old hand trenches dating back at least 40 years (judging by the amount of overgrowth). Further detailed propsecting should be undertaken, starting by radiating out from known vein areas and continuing over the entire property, between the grid lines.

Although the exact relationship has still not been discovered, the mineralized quartz veins are always spatially related to feldspar porphyry dykes. This should be kept in mind while prospecting and exploring new vein systems.

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In conclusion, then, the known mineralized veins (the No.1 and No.2 veins) are open at both ends and at depth and this, combined with the number of new veins discovered while mapping, continues to make the property a promising target for future exploration and development.

Many of the mineable ore bodies, discovered in the Beardmore-Geraldton belt were found by accident during exploration of surface showings which ended up being insignificant.

A final quotation taken from p.558 of CIMM, 1940, Transactions Vol. XL111, Entitled "Gold Mining in the Little LongLac and Sturgeon River Areas" by A.S. Bayne, states, referring to the Sturgeon River Mine vein, which averages 7" wide, that, "The greatest problem is the extreme inconsistancy of the ore. Sampling gives highly erratic results, and diamond drilling is of little value except to study structure; but it is usually the case that, when free gold is visible, the section in which it occurs makes ore." The Quebec Sturgeon Mine is located about 5 km. southeast of the Cowan prospect. PLATE 7 shows the discovery vein (No.3 vein) for the Quebec Sturgeon Mines.

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APPENDIX A

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-PHOTOGRAPHS

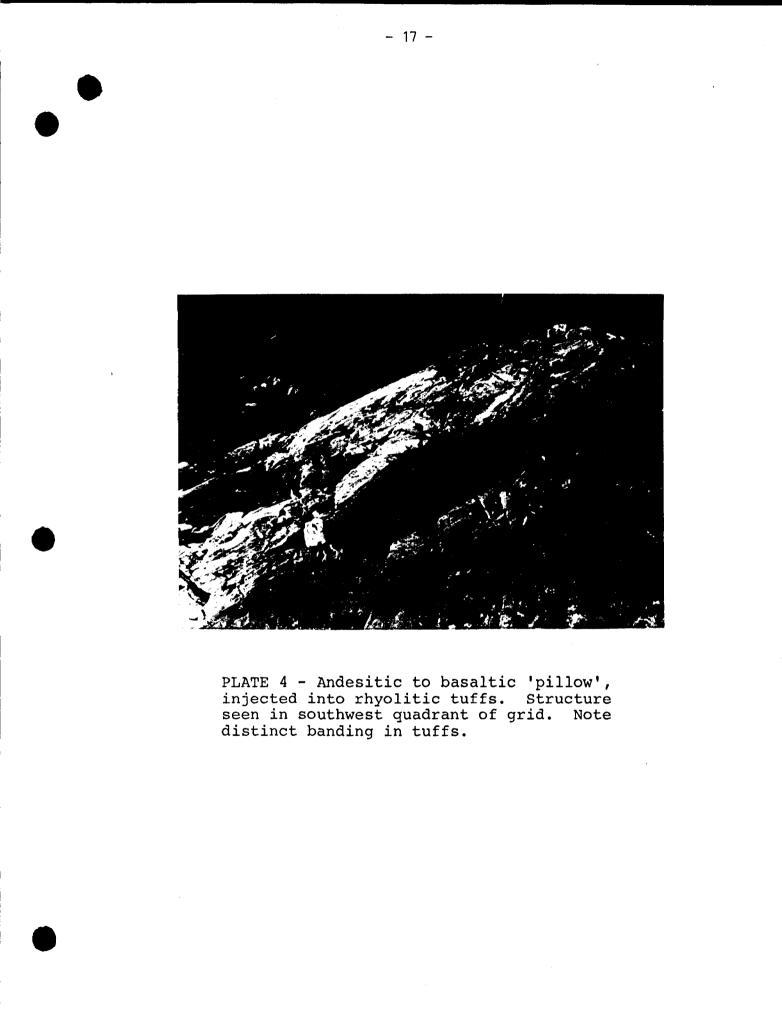




PLATE 1 - View looking S.E. from near the north claim claim line (west end of claims). Forge Creek in foreground. Note the rugged topography, typical of the western half of the claim block.



PLATE 2 - South central area of claim block. Typical hummocky terraine of rhyolitic bedrock exposures.

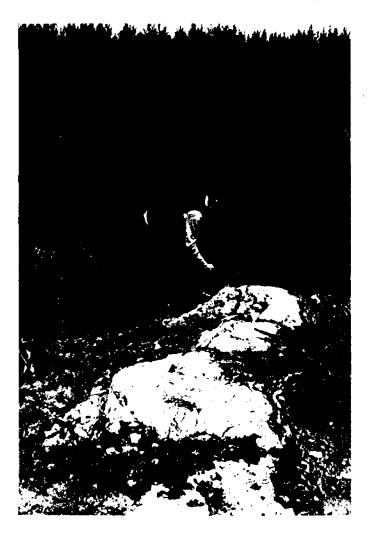


PLATE 3 - Wide white quartz vein in feldspar porphyry located just south of Forge Creek near L2+00E, @ 11+00N. Minor chalcopyrite and pyrite mineralization on surface (note rust patches) makes this vein an interesting exploration target in future.



PLATE 5 - View of head frame and No.1 vein trench area from the south west end of trench looking northeasterly. Note rusty rock in foreground includes narrow mineralized Quartz veins and mineralized wall rock.



PLATE 6 - View of the No.2 vein looking westward.



PLATE 7 - No.3 vein of Quebec Sturgeon Mine. - main source of ore for the mine.

REFERENCES

Bayne, A.S.; - Gold Mining in the Little LongLac and Sturgeon River Areas, Canadian Institute of Mining and Metallurgy, 1940 - Transactions Vol. XLIII, p. 512 - 573.

Mason, J.K. and McConnell, C.D. ; -

Gold Mineralization in the Beardmore-Geraldton Area; O.G.S. Miscellaneous Paper 110, The Geology of Gold in Ontario, 1983.

QUALIFICATIONS

I, Louise K. Eccles, of Vancouver, British Columbia, do hereby certify that:

- I am a practising geologist under the employ of Great Western Petroleum Corporation, with head office located at #718-744 West Hastings Street, Vancouver, B.C., V6C 1A5.
- I was graduated from the University of British Columbia with B.Sc. degree, in 1976 and have practised my profession as an exploration geologist, continuously since that time.
- 3. I am a fellow of the Geological Association of Canada and a member in good standing of the Canadian Institute of Mining and Metallurgy.
- 4. I personally conducted the geological mapping on the Cowan Gold prospect, described in this report, between May 29 and June 19, 1983.

Vancouver, B.C. July 29, 1983

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Louise K. Eccles



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Our File: 2.5756

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Mrs. Audrey Hayes Mining Recorder Ministry of Natural Resources P.O. Box 5000 Thunder Bay, Ontario P7C 566

Dear Madam:

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RE: Geological Survey on Mining Claims TB 518561 et al in the Township of Pifher

The Geological Survey assessment work credits as listed with my Notice of Intent dated February 17, 1984 have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-6918

M.E. Anderson^{*}sc

- cc: Northern Concentrators P.O. Box 326 Thunder Bay, Ontario P7V 4V9
- cc: Louise Eccles Great Western Petroleum Corp #718 - 744 W. Hastings Vancouver, B.C. V6C 1A5

cc: Mr. G.H. Ferguson Mining & Lands Commissioner Teronto, Ontario

cc: Resident Geologist Thunder Bay, Ontario



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Technical Assessment Work Credits

			File 2.5756
Date February	16,	1984	Mining Recorder's Repo Work No. 201

Report of

Recorded Holder Northorn Concentrators **Township or Area** Tyrol Lake Type of survey and number of **Mining Claims Assessed** Assessment days credit per claim Geophysical TB 518561-62 Electromagnetic _____ days 557581 614044-45 Magnetometer _____ days 614737 644991 to 94 incl. days Radiometric 646035 646037 to 44 incl. Induced polarization _____ days 656582 701436 to 40 incl. _____ days Other Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days Airborne Special provision Ground Credits have been reduced because of partial coverage of claims. Credits have been reduced because of corrections to work dates and figures of applicant. Special credits under section 77 (16) for the following mining claims 15 days Geological 10 days Geological TB -557582 557583 644990 646036 No credits have been allowed for the following mining claims Insufficient technical data filed not sufficiently covered by the survey

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical --- 80; Geological --- 40; Geochemical --- 40; Section 77 (19)---60: 828 (83/6)



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Ministry of Natural Resources

March 8/ 84

Our File: 2.5756

1984 02 17

Mining Recorder Ministry of Natural Resources P.O. Box 5000 Thunder Bay, Ontario P7C 5G6

Dear Madam:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

J. R. Morton

Acting Director Land Management Branch

> Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

M.E. Anderson:dg

Encls:

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- cc: Northern Concentrators P.O. Box 326 Thunder Bay, Ontario P7V 4V9
- cc: Mr. G. H. Ferguson, Q.C. Mining & Lands Commissioner Toronto, Ontario

cc: Louise Eccles c/o Great Western Petroleum Corporation #718 -744 W. Hastings Vancouver, B.C. V6C 1A5



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Ministry of Natural Resources Notice of Intent for Technical Reports

1984 02 17 2.5756

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An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

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lame and Postal Address of Person Certifying			and the ann	exed report is tru	le.				
	schulde it a				Date Certifie	d	Certifie	by (Signature)	• <u>.</u>
LOUISE ECCLOS, 4- GREAT WESTERN PETROLOUM CORPORATION, #718-744 W. HA Date Cartified VAN (DUNER, B.C. VECLAS Date Cartified VAN (DUNER, B.C. VECLAS	VANIOUMENC K.	VLC JAC			1 Aula	4 11 83		riels	

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December 12, 1983	OR	2.5756
Northern Concentrators P.O. Box 326 Thunder Bay, Ontario P7V 4V9		

Dear Sirs:

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RE: Geological Survey submitted on Mining Claims TB 518561 et al in the Township of Pifher

Enclosed are the plans, in duplicate, for the above-mentioned survey. Please have the author of the Report designate geological outcrops by colour and return the plans to this office.

For further information, please contact Mr. F.W. Matthews at (416)965-1380.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-1380

M. Anderson:mc

Encl.

cc: Mining Recorder Thunder Bay, Ontario

Ontario	Ministry of Natural Resources
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Mining Lands Comments

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Geotechnical Report Approval

Sept. 12th

2.5756

-maps not relevered -should have been - spt. good. To: Geophysics Comments Date Signature Approved Wish to see again with corrections mr Kustra To: Geology - Expenditures Comments intra Oct 24 83 Approved Wish to see again with corrections To: Geochemistry Comments Date Signature Wish to see again with corrections Approved To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380) 1593 (81/10)

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Mrs. Audrey Hayes Mining Recorder Ministry of Natural Resources P.O. Box 5000 Thunder Bay, Ontario P7C 5G6

Dear Madam:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims IB 518561 et al in the Township of Pifher.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-1380

A. Barr:mc

- cc: Northern Concentrators Limited P.O. Box 326 Thunder Bay, Ontario P7V 4V9
- cc: Cowan Michael Forest 5196 Sonora Drive North Vancouver, B.C. V7R 3V6

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GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOG	ICAL	
Township or Area PIFHER	G141	MINING CLAIMS TRAVERSED
Claim Holder(s) NORTHERN C	ONCENTRATORS LTD.	List numerically
M.F. COWAN		
Survey Company GREAT WESTE	RN PETROLEUM CORPORATION	
Author of ReportL.K. ECCL	ES	(prefix) (number) TB55.7581
Address of Author 718-744 W		
Covering Dates of Survey May 2	8 - June 19, 1983 (linecutting to office)	
Total Miles of Line Cut 49	(Inceating to other)	TB 614737 1
		тв 644990 - 994 5
SPECIAL PROVISIONS	DAYS	тв 646035 - 044 10
CREDITS REQUESTED	Geophysical per claim	
	-Electromagnetic	<u>TB 701436 - 440 5</u>
ENTER 40 days (includes line cutting) for first	Magnetometer	ТВ 656582 1
survey.	–Radiometric	l l
ENTER 20 days for each	Other	
additional survey using	Geological ?	
same grid.	Geochemical	
AIRBORNE CREDITS (Special provi	sion credits do not apply to airborne surveys)	
MagnetometerElectromag	netic Radiometric	
(enter e	lays per claim)	
DATE: July 28/83 SIGNA	ATURE:Author of Report or Agent	RECEIVED
		AUG 1 6 1983
Res. Geol. Quali	fications $(2), (2), (2), (2)$	MINING LANDS SECTION
rrevious Surveys		
File No. Type Date	Claim Holder	
		TOTAL CLAIMS29

GEOPHYSICAL TECHNICAL DATA

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		GROUND SURVEYS -	- If more than one survey, sp	pecify data for each	type of survey	
	a district a	Number of Stations	49 Km	Numbe	r of Readings	1644
	P		30 metre		•	
		Instrument				
11.4	MAGNETIC		nstant			
	GNI	Diurnal correction m	ethod			······
	MA	Base Station check-ir	n interval (hours)			
		Base Station location	and value			

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-1647746	CLR		Fixed transmitter			Parallel line
Sec. 1	ELECTROMAGNETIC	Frequency		(specify V.L.F. station)		
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		Instrument				
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	SI SI	— Integra	tion time			
	CEL					
	na	•				
	S	• •				
		Type of electrode				

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SELF POTENTIAL

Instrument	Range
Survey Method	
Corrections made	

RADIOMETRIC

·
Background Count
- include outcrop map)
- include outcrop map)
.)
each type of survey)
each type of survey)
each type of survey)
Line Spacing
Over claims only

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken_____

C. State

Total Number of Samples34	ANALI HUAL METHUDS				
Type of Sample	Values expressed in: per cent				
(Nature of Material) Average Sample Weight 5 1b.	$\mathbf{p}, \mathbf{p}, \mathbf{m}, \mathbf{L}_{\mathbf{M}}$				
Method of Collection GRAB_SAMPLE	p. p. b.				
	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)				
Soil Horizon Sampled	OthersAu				
Horizon Development	Field Analysis (tests)				
Sample Depth	Extraction Method				
Terrain	Analytical Method				
	Reagents Used				
Drainage Development	-				
Estimated Range of Overburden Thickness					
	Extraction Method				
	Analytical Method				
	Reagents Used				
SAMPLE PREPARATION					
(Includes drying, screening, crushing, ashing)	Commercial Laboratory (<u>Au, Ag, Cu</u> tests)				
Mesh size of fraction used for analysis	Name of Laboratory <u>MIN-EN_LABS</u> for gold Methyl Iso- Extraction Method Butyl KETONE				
	Extraction Method Buty E KETONE				
	Analytical Method ATOMIC ABSORPTION SPEC				
	Reagents Used HNO ₃ HC1) 4 PHOTOMETRES				
01	General ATOMIC ABSORPTION				
General	or FIRE ASSAY				
 					
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* SOME SAMPLES WERE ASSAYED IF THEY WERE KNOWN TO COME FROM MINERALIZED AREAS.



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Ministry of Natural Resources

Your file:

Our file:

August 11, 1983

MEMORANDUM TO:

Mr. E.F. Anderson Director, Land Management Branch Whitney Block, Room 6450 Queen's Park TORONTO, Ontario M7A 1W3

SUBJECT: Assessment work report

Enclosed please find 2 copies of assessment work report submitted by Northern Concentrators Ltd. for mining claims TB518561 et al - as attached.

Audrey M. Hayes (Mrs.)

Audrey M. Hayes (Mrs.) Mining Recorder Thunder Bay Mining Division Ontario Government Building 435 James Street P.O. Box 5000 Thunder Bay, Ontario P7C 5G6

Telephone: (807) 475-1311

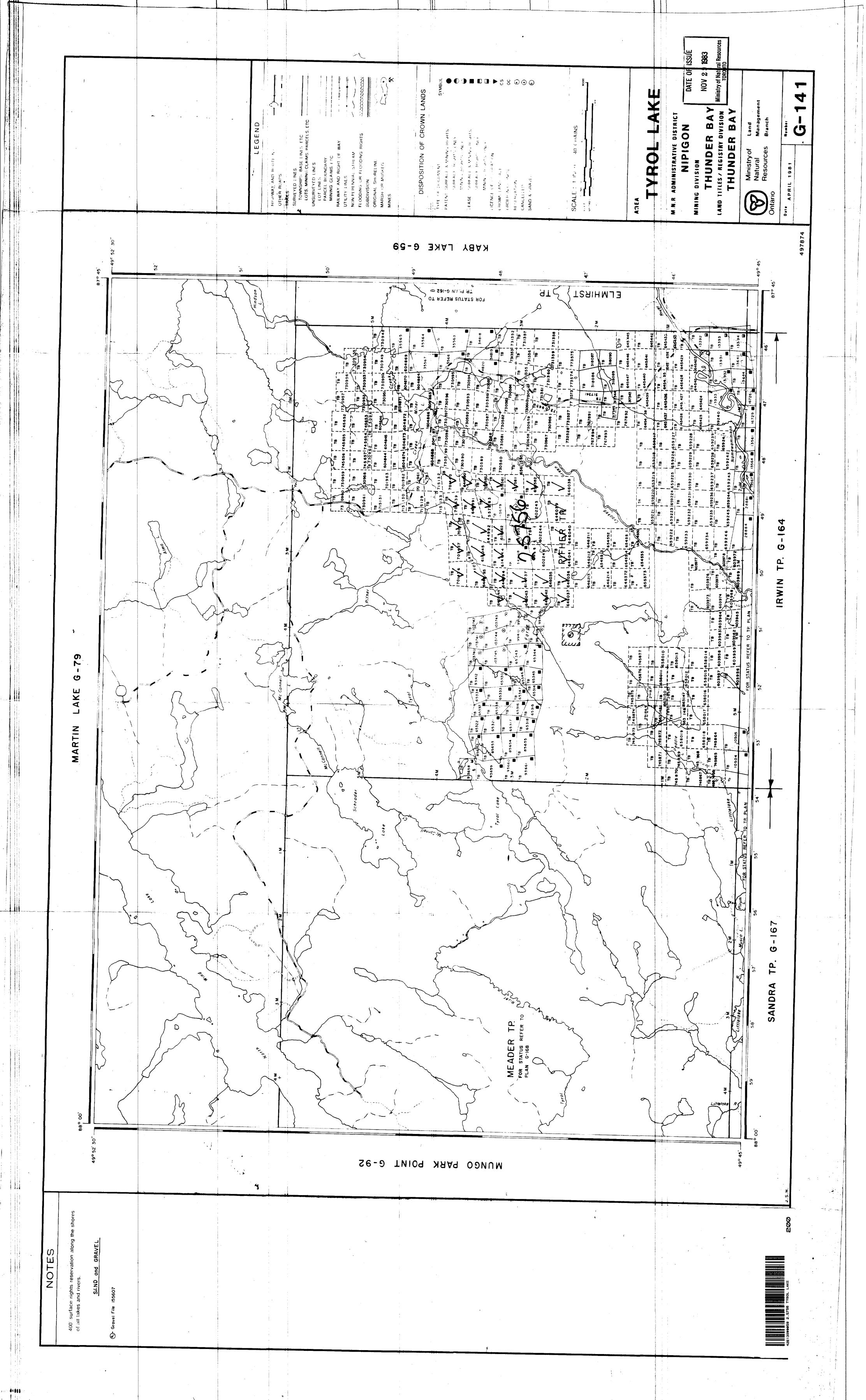
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Encl.

2.5756 Geol. Seol. Seol. TB-518561 644992 \mathcal{V} 646042 518562! 43 93 V C. 1. 1. 994-646044 557581 友! l 656582 ·646035 - 82 1/4 >1/4 701436 36 557583 \mathcal{V} 37 37 614-044 V レ 38 38 614045 V 614737 39 39 ~ 1/4 701440 L 40 644990 L V 646041 649.991 D.K.





	Au-oz/ton WIDTH - m 3.0053 6.0703 6.0703 1.8336 816 01075 01075 01075 01075 3.0905 3.0905 Grab Grab Grab Grab	-IGURE No., 4	THUNDER BAY JOINT VENTURE COWAN GOLD PROSPECT THUNDER BAY MINING DIVISION, ONTARIO DETAILED GEOLOGY DATE: DA
DDH Old 2-C-7+B 2-C-7+B 2-C-7+B 2-C-7+B 2-C-7+B 3-E-21 3-E-22 3-E-21 3-E-22 3-E-21 3-E-22	ASSAY SAMPLES ASAMPLE No., Cu % Ag-oz/ton k SAMPLE No., Cu % Ag-oz/ton k 2 - Vn - 2 750 47 2 - Vn - 2 750 47 3 - E - 10 065 02 3 - E - 13 365 20 3 - E - 13 365 20 9 Pm Ppm ppm 3 - E - 21 3 - E - 22 3 - E - 21 3 - E - 22 3 - E - 21 3 - E - 21 3 - E - 21 3 - E - 22 3 - E - 21 3 - E - 21 3 - E - 22 3 - E - 21 3 - E - 22 3 - E - 21 3 - E - 21 3 - E - 22 3 - E - 21 3 - E - 21 3 - E - 21 3 - E - 22 3 - E - 21 3		SCALE 1:500

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