



41O10NE0008 OP91-425 GREENLAW

010

ONTARIO PROSPECTORS ASSISTANCE PROGRAM

FINAL SUBMISSION REPORT

RIDEOUT EAST/HOTSTONE WEST PROPERTIES

GREENLAW TOWNSHIP

BARRY MCDONOUGH  
OCTOBER 23, 1991



41010NE0008 OP91-425 GREENLAW

010C

## TABLE OF CONTENTS

1.0 INTRODUCTION . . . . .	1
2.0 LOCATION AND ACCESS . . . . .	2
3.0 GENERAL GEOLOGY . . . . .	2
4.0 WORK DONE . . . . .	4
5.0 RESULTS . . . . .	7
6.0 CONCLUSIONS AND RECOMMENDATIONS . . . . .	8

## 1.0 INTRODUCTION

This report is being prepared for the Ministry of Northern Development and Mines as the final requirement for its Ontario Prospector Assistance Program. This report is a joint submission from Kervin McDonough (OP91-426) and Barry McDonough (OP91-425) detailing the work completed on their jointly held property in Greenlaw Township (NTS Reference 41 O/10). The program contained two separate areas. The Hotstone West property consists of six unpatented claims held 100% by Kervin McDonough. The Rideout East property consists of fifty-seven unpatented claims, forty-six of which are held 100% by Kervin McDonough and eleven claims which are jointly held by Barry McDonough (50%) and Kervin McDonough (50%).

A preliminary option agreement was entered into with Consolidated Rhodes Resources Ltd. of Vancouver for the entire sixty-three claims but it has since lapsed. At present both principals are confident another mining company will become interested in the properties in the near future.

The work done has established the extension of the Gold Island Shear along the north shore of Rideout Lake. In addition trenching along the north shore of Rideout has helped further define an east-west trending carbonate zone which may be related to the Hotstone Carbonate Zone whose western extension is observed on the Hotstone West property.

Other work performed this field season carried over from the previous season. This included washing and mapping of trenches dug in 1990 and the establishing of two cut baselines to evaluate

gold showings discovered late last season. Also a consultant from Norwin Geological Ltd. was hired to assess the properties' potential for a mineral deposit of economic significance.

## 2.0 LOCATION AND ACCESS

Both properties are located within Greenlaw Township which is a part of the Porcupine Mining Division. Situated fifty miles east of Chapleau, Ontario the Hotstone West property is accessible by four-wheel drive vehicle. Rideout East is accessible by canoe along the Wakami River or from a portage on the northeast edge of Hotstone Lake. Air Service is available year-round (both fixed and rotary wing) from Timmins. Seasonal bases are in operation from Chapleau and Foleyet during the summer month.

Our camp was located on a large stripped area immediately west of Hotstone Lake. Access to the Rideout East property was along the Wakami River route noted above.

## 3.0 GENERAL GEOLOGY

### Rideout East

The property is characterized by east-west trending intermediate to mafic volcanic flows and tuffs interbedded with sediments, chert and iron formation. The sediments include finely laminated argillite (some units containing thinly banded ankerite), greywackes and conglomerate.

Strata generally strikes 080 to 090 degrees and dips vary from moderate to steeply north to steeply south.

Structure plays a significant role in any mineralization. A number of structural elements are at play on this property. The most prominent is the Rideout Lake Shear Zone which trends 090 degrees. Extensively investigated in the past it has yielded few encouraging results.

Of particular interest is the Gold Island Shear, bearing 065 degrees. It intersects the Rideout Lake Shear obliquely. At this junction significant gold values were obtained. This structure was investigated late in the 1991 field season and was found to continue along the north shore of Rideout Lake. An old trench was discovered along this trend and many samples were taken. Another structure of interest is the Engineer Lake Fault which trends approximately 350 degrees and truncates not only the Rideout Lake Shear but all other structures as well. This fault runs sub-parallel to the Wakami River Fault which cuts the Hotstone Lake Carbonate Zone and displaces it some 1700 metres. The amount of movement along the Engineer Lake Fault is presently unknown. This structure inhabits to far eastern extent of the property. It is an attractive target for exploration in the next field season.

Chloritization is the most prevalent form of alteration in the area. Sericitization and carbonitization are abundant as well. Silicification has been noted in several local areas.

#### Hotstone West

Sheared and intermediate to mafic flows, tuffs and sediments typify the geology of the area. Its most significant feature is,

however, the Hotstone Lake Carbonate Zone which is composed of interbedded ultramafic-komatiitic flows and tuffs, metasediments and minor cherty banded iron formation. The entire package is contained within a serpentinized massive ultramafic intrusive.

From an economic perspective, interest in this area is as a result of thirteen quartz boulders which were discovered in 1984 by Noranda Exploration while digging a sump for their stripping and washing program. The average assay for these boulders was approximately 1.5 ounce per ton Au with values ranging up to 14 ounce per ton Au. Visible gold was noted. Due to the angularity, size and extreme friability of these boulders it is believed that their source is in close proximity to their area of discovery.

#### 4.0 WORK DONE

The primary focus of the 1991 field season was to expand upon the data that was collected the previous year. To that end time and money were spent washing and mapping trenches dug the previous year and following up on showings discovered late in the 1990 field season. The bulk of the work was done by Kervin McDonough. Employment opportunities dictated that Barry McDonough be out of the province for the majority of the 1991 field season. To compensate local contractors were hired to assist Mr. McDonough in the absence of his son. Barry McDonough was able to participate late in the fall of 1991 providing tech-

nical assistance on the project. The contractors' fees were paid from both grants.

#### Rideout East

Results from the fall of 1990 were followed up during the 1991 field season. Two baselines were cut and picketed, one bearing 065 degrees to investigate the extension of the Gold Island Shear on the north shore of Rideout Lake. The other baseline cut at 080 degrees runs parallel to the Rideout Lake Shear and provided control for trenching done on the north shore of Rideout. The work was done by Mike Wabano, a self-employed Native linecutter from Timmins. The baselines totalled 3.4 km in length. An additional control line of 400 metres was cut bringing the total to 3.8 kms. A bulldozer and operator were rented from A. Martin Trucking in Chapleau. A small bulldozer road was established and trenching was done on the north shore of Rideout over known and newly discovered showings. This was followed up with washing by Mike Trembley of Matheson. Mapping and sampling of these trenches and mapping (each at 1:2500 scale) along both baselines (See Maps 3 and 4) was completed by Barry McDonough.

In addition showings on Gold Island and on the north shore of Rideout Lake were blasted to obtain more reliable assay results and to increase the understanding of the nature of the mineralization-bearing quartz veining. Further, an overall geological property examination was done to assess the potential for economically significant gold mineralization by Stewart Winter of Norwin Geological Services.

It was established that the Gold Island Shear is part of a subtle trend of 065 degree shears that cut both Gold Island and the north shore of Rideout Lake. Furthermore a horizon of brown carbonate altered rocks reminiscent of Hotstone Carbonate Zone rocks accompanies this 065 degree trend on the north shore of Rideout Lake. While no significant values were discovered along Baseline 1+25N (See Map 4), anomalous gold values of 1745 and 754 ppb Au were found along the same trend on Baseline 0+00 (See Map 3).

Trenching revealed other areas of interest. A broad zone of brown carbonate was observed along with sheared felsic flows and intrusives. A small horizon of Iron Formation returned an assay of 189 ppb Au as well. While assay values were generally low, more work is required in this area.

The blasting on the north shore of Rideout Lake and on Gold Island confirmed the assays recorded before and provided information regarding the nature of the quartz veining hosting the gold. Hosted within a highly sheared mafic flow/pyroclastic the veining is boudinaged and weakly mineralized with pyrite. Tourmaline accompanies the pyrite with the Gold Island quartz vein. Higher values were encountered on the east end of Gold Island than in the past with a high value of 0.67 ounce per ton Au (See Map 2).

#### Hotstone West

The work done on the Hotstone West property consisted of follow-up from the previous year. Line cutting and trenching programs were conducted in 1990. The 1991 program included



washing and mapping of existing trenches. The washing program was conducted by Mike Trembley of Matheson while the mapping was conducted by Barry McDonough (See Map 1). Minor anomalous values were encountered within these trenches. Values of 130 and 123 ppb Au were found. In total ten samples were taken.

Most intriguing is the presence of a shallow dipping fold. This may have significance with respect to the search for the source of the auriferous quartz boulders found in the vicinity.

## 5.0 RESULTS

### Rideout East

The most significant results of the 1991 field program is the identification of a trend along the north shore of Rideout Lake subparallel to the Gold Island Shear. Although assay values were weak, the presence of this structure, which has yielded significant gold values, is encouraging. The presence of a zone of carbonate alteration similar to the Hotstone Carbonate Zone, and some anomalous gold values within this zone (ie. 754 ppb Au), makes the north shore of Rideout Lake an attractive exploration target.

A blasting program on Gold Island confirmed existing values and provided new insight into the nature of the auriferous veining.

### Hotstone West

The values encountered on this portion of the property were low. Since the program consisted mostly of follow-up from the program of 1990, fair assessment of these claims is difficult. Values of 130 and 123 ppb Au were returned. More geological assessment is needed to properly evaluate the area.

### 6.0 CONCLUSIONS AND RECOMMENDATIONS

Structurally complex, possessing local zones of known gold mineralization and containing areas of pervasive silica and carbonate alteration, the Hotstone/Rideout region has abundant potential for hosting a gold deposit of economic value. Further exploration is warranted on both the Hotstone West and the Rideout East properties.

The following programs are suggested:

1. The continuation of the mapping program along flagged wings lines extended from the cut baselines on the Rideout East property. Line spacings at 400 metres initially may be reduced to 200 metres if results warrant.
2. A winter geophysical program, consisting of magnetometry and VLF surveys, along the flagged lines extending off the baselines and across Rideout and Little Rideout Lakes.
3. A geochemical survey using the same flagged grid as the mapping and geophysical programs.

4. Detailed prospecting of any geological, geochemical or geophysical anomaly found.

5. A detailed mapping program over the cut grid on the Hotstone West property along with a reconnaissance mapping effort over the ungridded portion of the property.

Respectfully submitted,



Barry McDonough

CLAIM NUMBERS

P.1155697\*  
P.1155698\*  
P.1155699\*  
P.1155700\*  
P.1155701\*  
P.1155702\*  
P.1155703\*  
P.1155704\*  
P.1155705\*  
P.1155706\*  
P.1155707\*  
P.1155708\*  
P.1155709\*  
P.1155710\*  
P.1155711  
P.1155712  
P.1155713  
P.1155714  
P.1155715  
P.1155716  
P.1155717  
P.1155718  
P.1155719  
P.1155722  
P.1155723  
P.1155724  
P.1155725  
P.1155726  
P.1155727  
P.1155728  
P.1155729  
P.1155730  
P.1155731  
P.1155732  
P.1155733  
P.1155734  
P.1155735  
P.1155736  
P.1155737  
P.1155738  
P.1155739  
P.1155740  
P.1155741  
P.1155742  
P.1155743

P.1155106+  
P.1155107+  
P.1155108+  
P.1155109+  
P.1155110+  
P.1155111+  
P.1155112+  
P.1155113+  
P.1155114+  
P.1155115+  
P.1155116+

P.1129270  
P.1129271  
P.1129272  
P.1129273  
P.1129274  
P.1129275

\* Cunningham Township  
+ Ownership = 50% Kervin McDonough/  
50% Barry McDonough

SAMPLE NO.	DESCRIPTION	ASSAY PPB(OZ/T)
14311	Small zone of weakly sheared chl-carb-ser altered vol with 0.5-1% cubic pyrite and small qtz stringers	1745(.05)
14312	Small bulldozed trench--highly sheared chl-ser schist with hem and <1mm euhedral py and chevron folding	1
14313	As above. 2 cm qtz vein from chl-ser schist	1
14314	Qtz-carb stringer (houdinaged) within chl-ser schist, some chevron folding	1
14315	Smokey qtz vein within sheared carb alt'd vol(?) poss sed. Vein pinches and swells	1
14316	Massive chl-carb alt'd vol near highly shr'd vol (sed?). Crosscut by qtz stringers	7
14317	Well shr'd chl-carb alt'd coarse grained vol (poss intrusive) with blebs of py replacing carb stringers along foliation	1
14318	Shr'd coarse gr'd vol(poss intrusive) with major chl-carb alt'n and cubic py replacing carb	1
14319--14320 See Hotstone West		
14321	Well shr'd chl-ser alt'd mafic vol cut by qtz-fsp stringers	1
14322	Alt'd QSP--abundant chl-ser alt'n, massive	1
14323	Weakly shr'd fine grained chl-alt'd mafic-int vol with 1-2% py(cubic) along fractures	1
14324	Well shr'd lean IF(?), no visible sulfides	7
14325	Possible alt'd qtz vein (felsic intrusive?) Chl-ser alt'd host with qtz-carb-fsp in veins with 1-2% diss and stringer py along fracture	1
14326	Carb alt'd sheared mafic vol. Abundant qtz-fsp in vein	1
14327	Old Trench--Qtz-carb-ser vein in carb alt'd intrusive. Locally heavily sheared with 2-3% cubic pyrite	1
14328	Highly sheared intrusive 5m from 14327. Carb-	7

SAMPLE NO.	RIDEOUT EAST SAMPLE DESCRIPTIONS DESCRIPTION	ASSAY PFB(OZ/T)
	ser alt'd with clumps of euhedral py 0.5-1% (from shear running through Old Trench)	
14329	Highly shr'd and qtz-carb-chl alt'd mafic vol(poss intrusive).Tr diss py. Blebs of qtz- carb(fractured stringers)	1
14330	Mass gossenous carb alt'd intrusive(?) poss sed(very flaggy). Diss and blebs cubic py 0.5-1%	65
14331	Qtz-calcite alt'd int vol with 0.5-1% diss py in veins and qtz-ct blebs	27
14332	Massive weakly chl-ser alt'd mafic vol. Late fracturing with 0.5-1% diss cubic py	1
	14333--14340 See Hotstone West	
14341	Highly shr'd and carb-ser alt'd vol(poss sed)	1
14342	Fine grained shr'd cherty felsic vol(rhy?) near contact with shr'd mafics (poss sed?)	Not Rec'd
14343	Chert-mt Iron Formation with 2-3% py	189
14344	Possible IF interbedded with a shr'd goss vol(poss sed). Very cherty--possibly only a vein. Rock extremely warped	1
14345	Chl-alt'd mass mafic flow cut by abundant qtz-carb stringers. Weakly foliated	1
14346	From Blasted O/C from north shore of Rideout Boudinaged qtz-carb vein with 1-2% py along vein/host contact	1138(0.03)
14347	Fine grained siliceous brown carb alt'd int to fel vol. Locally brecciated	754
14348	Grab from west shore of Gold Island--shr'd and chl-ser alt'd vol with diss py 0.5-1%	4046(0.12) 3634(0.11)
14349	Under water qtz vein on west shore of Gold Island. Trace Tourmaline and sericite	86
14350	Qtz boulder submerged off west shore of Gold Island. Rafts of qtz-ser alt'd vol and tr-0.5% pyrite	1029(0.03)
14351	Gold Island Blasting--dry shr'd int vol	1

RIDEOUT EAST SAMPLE DESCRIPTIONS		
SAMPLE NO.	DESCRIPTION	ASSAY PPB(OZ/T)
=====		
14352	Gold Island Blasting--4 inch qtz vein with minor sericite	1248(0.04)
14353	Gold Island Blasting--Shr'd chl-alt'd int vol with qtz-carb stringers along foliation some with tourmaline	470
14354	Gold Island Blasting--Weak qtz-carb vein with minor chl alt'n	343
14355	Gold Island Blasting--Qtz vein with abundant ser and rafts of host. Seemingly barren	566
14356	Gold Island Blasting--Qtz vein 0.5m wide Minor tourmaline and ser. Tr-0.5% py and poss cpy(??)	22972(0.67) 15086(0.44)
14357	Gold Island Blasting--Shr'd vol hosting vein (14357)	50
14358	Gold Island Blasting--Qtz-carb veinlet in chl alt'd shr'd vol. Py 0.5-1%	11452(0.33)
14359	Gold Island Blasting--Boudin structure in qtz vein. Tourmaline and chl-ser alt'd host in vein. Tourmaline 1-2%	2811(0.08)
14360	Gold Island Blasting--Qtz vein in chl alt'd host with 3-5% Tourmaline and 0.5-1% py	162
GI-1	Cuttings from plugger hole on Gold Island See map	1
GI-2	Cuttings from plugger hole on Gold Island See map	1
GI-3	Cuttings from plugger hole on Gold Island See map	1
GI-4	Cuttings from plugger hole on Gold Island See map	27
GI-5	Cuttings from plugger hole on Gold Island See map	75
GI-6	Cuttings from plugger hole on Gold Island See map	Not Rec'd
GI-7	Cuttings from plugger hole on Gold Island See map	915(0.03) 703(0.02)

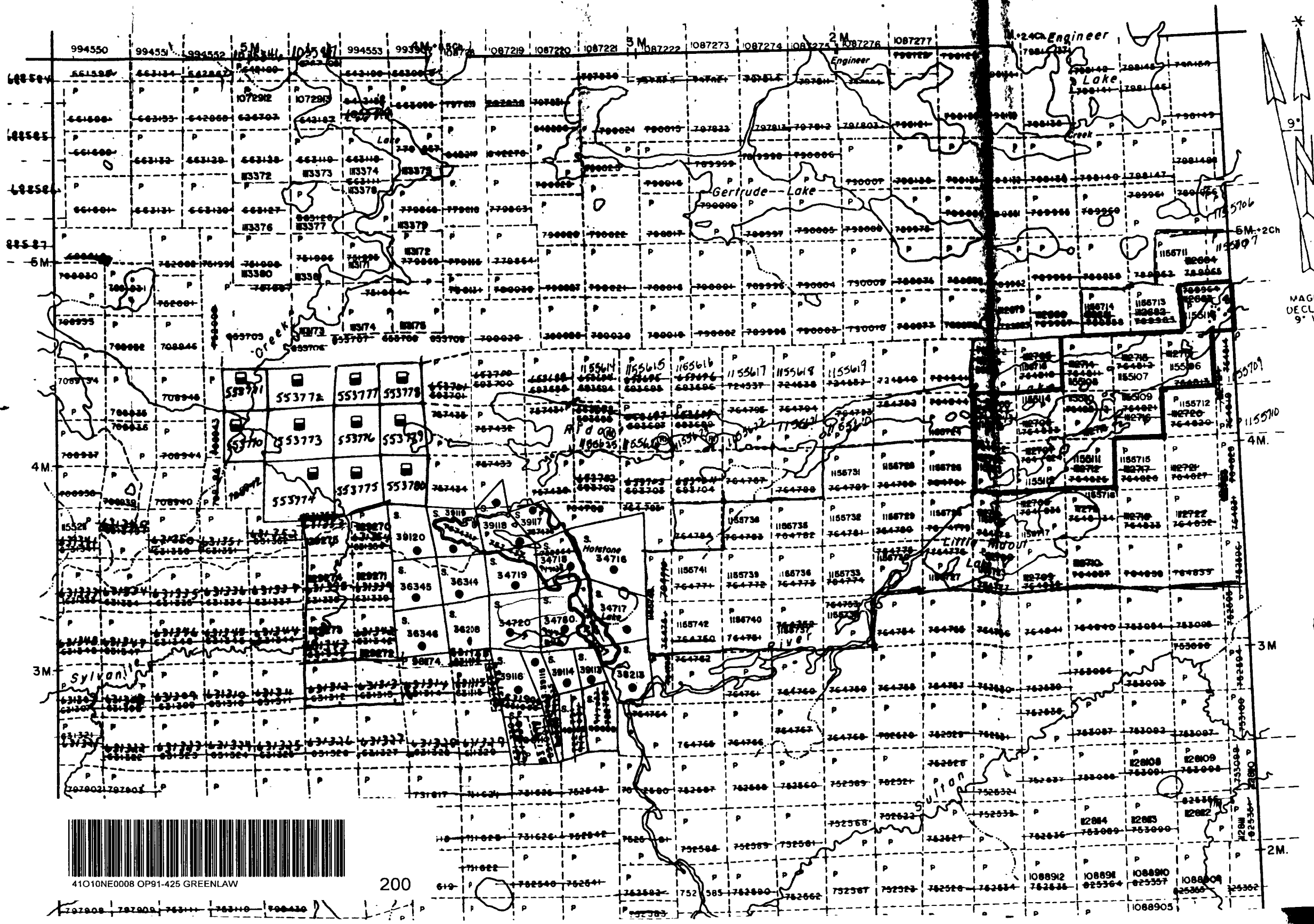
RIDEOUT EAST SAMPLE DESCRIPTIONS		
SAMPLE NO.	DESCRIPTION	ASSAY PFB(OZ/T)
NS-1	Cuttings from plugger hole on north shore of Rideout Lake. See map	1

HOTSTONE WEST SAMPLE DESCRIPTIONS		
SAMPLE NO.	DESCRIPTION	ASSAY PFB(OZ/T)
14311--14318 See Rideout East		
14319	Relatively flat lying qtz-fsp vein within a shr'd chl-alt'd mafic vol with 0.5-1% cubic pyrite	1
14320	Well shr'd chl schist with pinching and swelling qtz-carb veins with 1-2% diss cubic pyrite	10
14321--14332 See Rideout East		
14333	Highly shr'd carb alt'd UM with qtz vein along rock fabric	1
14334	Massive carb-qtz alt'd mafic to int intrusive Deforms heavily carb alt'd UM country rock and cut by qtz stringer	1
14335	Carb alt'd massive felsic intrusive with brown carb, silica and sericite	123
14336	1 metre gossenous zone within shr'd mafic flow. Diss py 3-5%	38
14337	Highly gossenous mafic flow(as 14336) with 2-3% py and abundant chl alt'n	120 120
14338	Shr'd carb alt'd vol(UM?), some qtz stringers	1
14339	Shr'd and carb alt'd UM flow with abundant qtz veining	1
14340	Cherty(poss alt'd felsic intrusive or sandstone). Abundant brown carb and tr py and poss po.	1



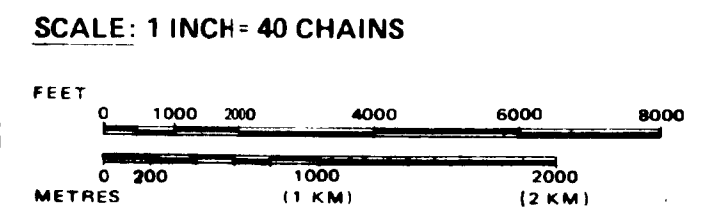
# DISPOSITION OF CROWN LANDS

Denyes Twp.

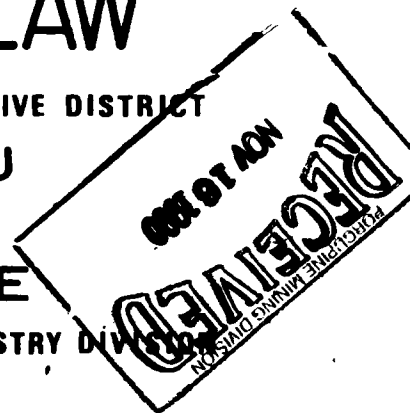


TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◼
" MINING RIGHTS ONLY	◻
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊕

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.



TOWNSHIP  
**GREENLAW**  
 M.N.R. ADMINISTRATIVE DISTRICT  
**CHAPLEAU**  
 MINING DIVISION  
**PORCUPINE**  
 LAND TITLES/REGISTRY DIVISION  
**SUDBURY**



Ontario Ministry of Natural Resources Land Management Branch

Date MARCH, 1985 Number **G-3235**



