DIAMOND DRILLING

TOWNSHIP: OGDEN TWP. **REPORT NO:** 38

WORK PERFORMED FOR: Black Cliff Mines Ltd.

RECORDED HOLDER: SAME AS ABOVE (xx)

: OTHER ( )

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
P 930778	OG-89-1	406'	Oct/89	(1)

NOTES: (1) # W9006.002, filed Jan/90

020

A REPORT OF THE DIAMOND DRILL PROGRAM ON THE OGDEN TOWNSHIP PROPERTY

NORTHEAST ONTARIO
FOR
ADONOS RESOURCES INC.

Toronto, Ontario
October, 1989

Murray C. Rogers, M.Sc.

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Summary

The Ogden Township Property consists of six unpatented claims and is located in northeastern Ontario, about 6 km. south of the City of Timmins. The Timmins region is historically the largest gold mining district in Canada.

Black Cliff Mines Ltd. of Toronto carried out a single hole diamond drill program on the property from October 24th to 25th, 1989. Adonos Resources Inc. of Vancouver financed the project. Dominik Drilling Inc. was contracted to do the drilling. The author provided technical support for the program.

The hole was drilled to a depth of 406 feet with the purpose of examining the geology under a shaft which had been sunk on a quartz vein zone. Well altered andesite flows and tuffs with minor quartz veining were encountered by the hole.

Further drilling is recommended along the known trend of the quartz vein zone if positive assay results are returned from the core samples.

Introduction

The Ogden Township Property is located in northeastern Ontario, about 6 km. south of the city of Timmins.

A single drill hole (OG-89-1) was drilled on the property in October, 1989.

This report summarizes the background information on the property, describes the drill program and recommendations are made for further work.

Location and Access

The property is located in east-central Ogden Township approximately 6 km. south of the City of Timmins in northeastern Ontario (refer to Figure 1).

Access is via the Pine Street South road south from Timmins. This road cuts the eastern edge of the claim group. A side road leads southwest from the main road and trends through the northern part of the property.

Physiography and Topography

The area is characterized by low relief. The land slopes gently eastward from an outcrop ridge which lies to the northwest.

Secondary vegetation is the dominant type of growth as the area has been clear-cut.

Reid and Meadow Lakes, the nearest water sources, lie about 1,500 feet to the east of the property.

Land Status

The Ogden Township Property is owned by Adonos Resources Inc. of Toronto. Six contiguous unpatented mining claims comprise the claim group. The claims consist of P 930776 - 930781 inclusive (refer to Figure 2).

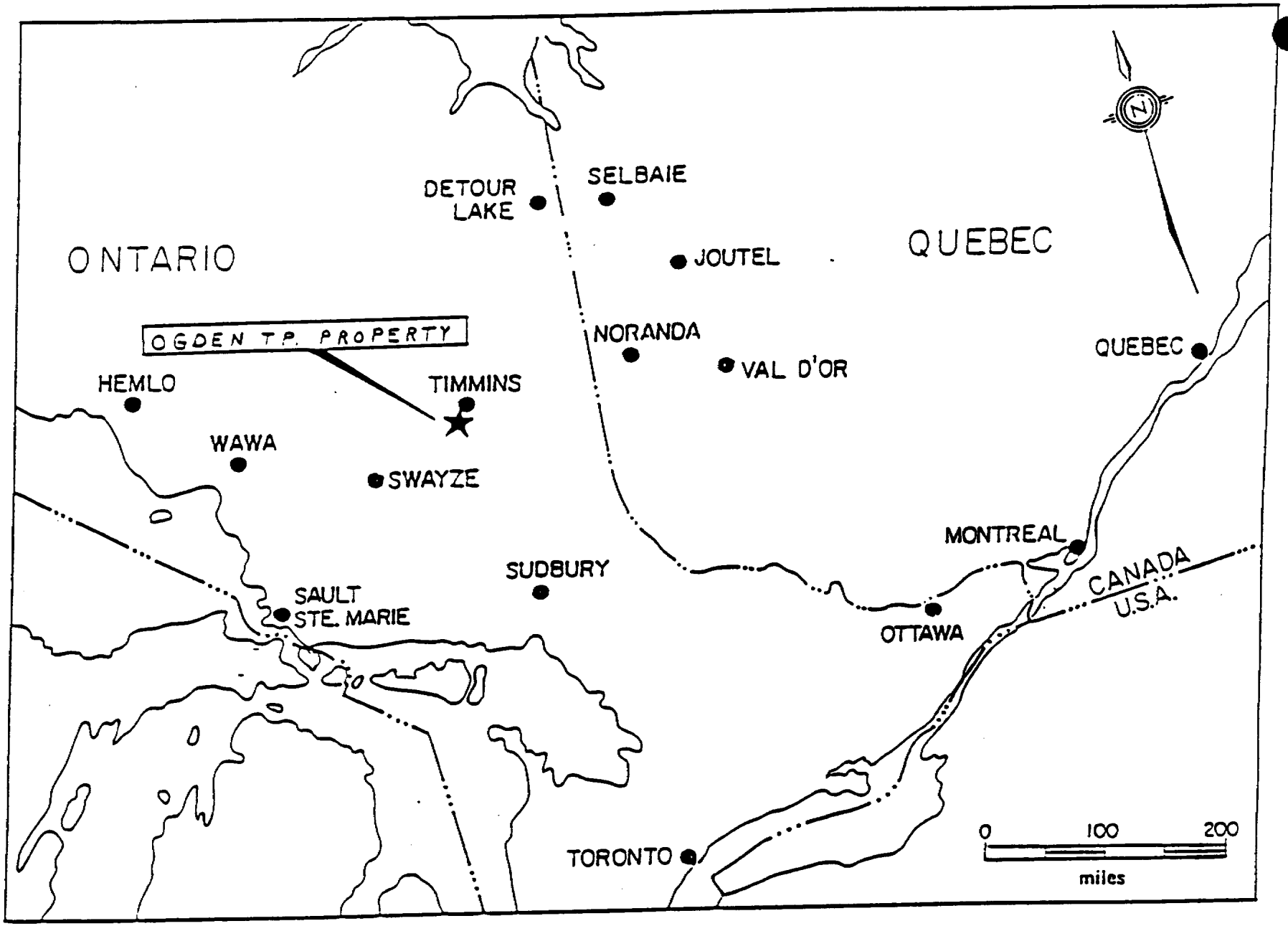


Figure 1 – Location Map of the Ogden Tp. Property

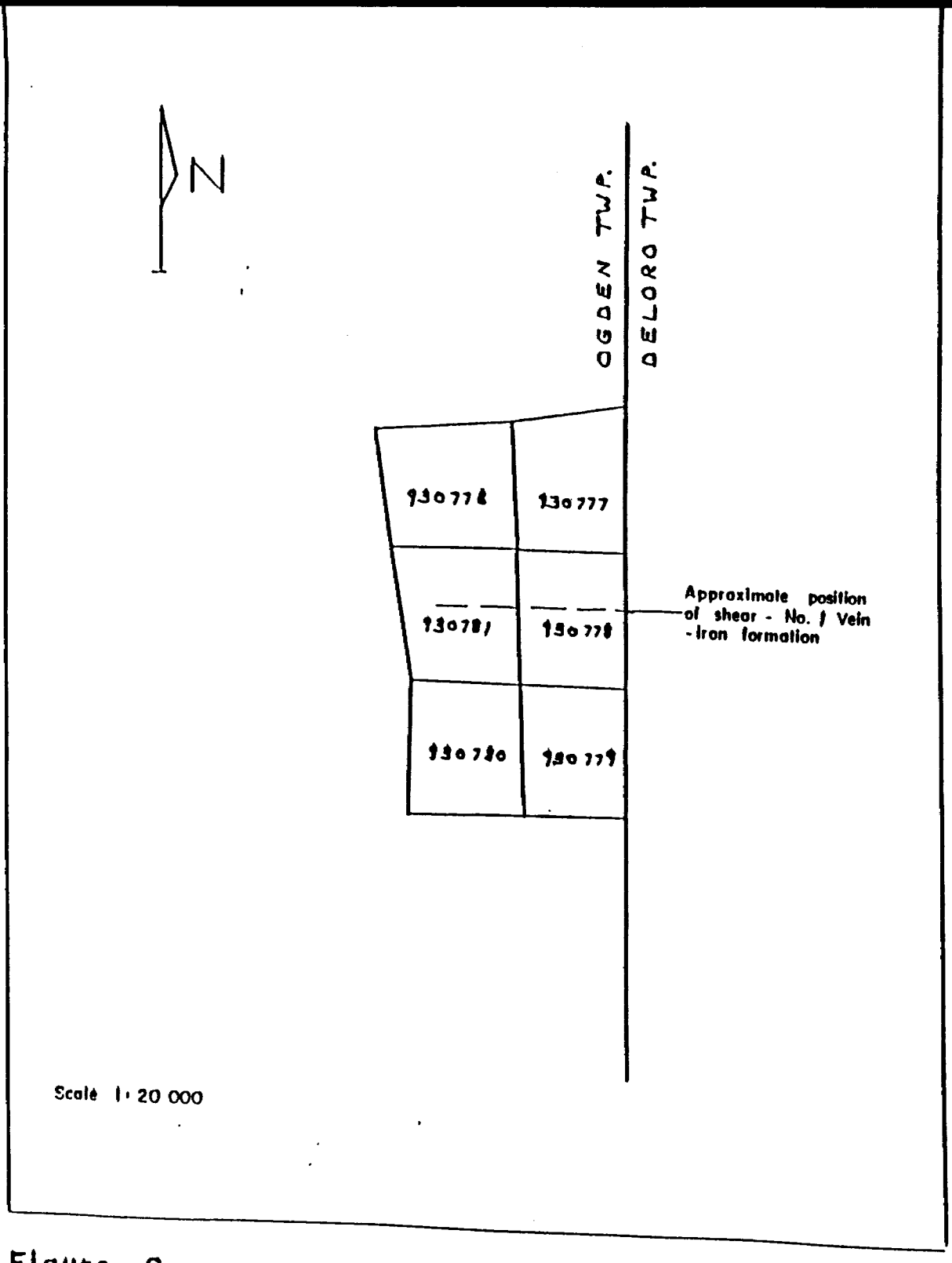


Figure 2 - Ogden Tp. Property Claim Group

Previous Exploration

(1) Ridgegold Porcupine Mines Ltd. (1923-1924). Four quartz veins were exposed and sampled. Two of the veins occur on the present Ogden Township Property. No. 1 Vein: a 200 foot strike length was exposed with 2 to 9 foot vein widths; best reported sample values were: .44 oz. Au/ton over 6 feet, .13 oz. Au/ton over 4 feet and .14 oz. Au/ton over 3 feet. No. 2 Vein: exposed for a 150 foot length with an average 4 foot width; best sample values were: .41 oz. Au/ton over 2 feet and .05 oz. Au/ton over 3 feet.

(2) Ridgegold Porcupine Mines Ltd. (1929-1930). Further stripping and sampling of the previously exposed vein zones was carried out. This was followed by the drilling of six holes. A two-compartment shaft was sunk to the 125 foot level followed by some minor drifting on the No. 1 Vein on the south-central portion of claim 930778. The results of this work were not found.

(3) Goshawk Mines Ltd. (1975). A single hole of 404 feet was drilled under the western part of the No. 1 Vein. Rock types consist of dacite and rhyolite flows and tuffs and porphyry. Notable features include local silicification and a 45 foot wide shear zone. Only 24.7 feet of the core was sampled. No assay values were reported.

(4) AMAX Minerals Exploration (1981). Geological mapping was carried out at a scale of 1 inch to 400 feet over that part of the property which includes claims 930776, 930777, 930779 and 930781. The sampling that was done returned nil to trace gold values.

(5) VLF-E.M. Survey (1984). A grid was cut over the property followed by a 4.9 mile VLF-E.M. survey. Five, east-west trending anomalies were outlined.

(6) Black Cliff Mines Ltd. (1987). A grid totalling 9 line km. was cut over the entire property. This was followed by magnetometer and VLF-E.M. surveys over the grid. A total of 15 E.M. anomalies were outlined.

(7) Black Cliff Mines Ltd. (1989). Geological mapping of the entire property at a scale of 1:2,400.

Regional Geology

The property occurs in the Abitibi Subprovince of the Superior Province of the Canadian Shield (refer to Figure 3).

Two groups of Archean volcanic rocks trend generally east-west through the area (refer to Table 1). The basal Deloro Group is transitional from basalt and andesite flows in the lower portion to dacite and rhyolite pyroclastics near the top. Interflow sedimentary units are common throughout the group, including local iron formation, which indicates breaks between the periods of volcanism.

Komatiite and tholeiite volcanic flows and pyroclastics comprise the Tisdale Group.

A wide range of intrusive rocks occur in the region as dykes, sills, plugs and stocks. The intrusions range in composition from ultramafic to granodiorite.

The Destor-Porcupine Fault is the major structural feature in the region. It trends ENE through the area and has a strong spatial and genetic relationship to most of the gold deposits in the Timmins district. The Shaw Dome lies to the south and the Porcupine Syncline to the north of the fault.

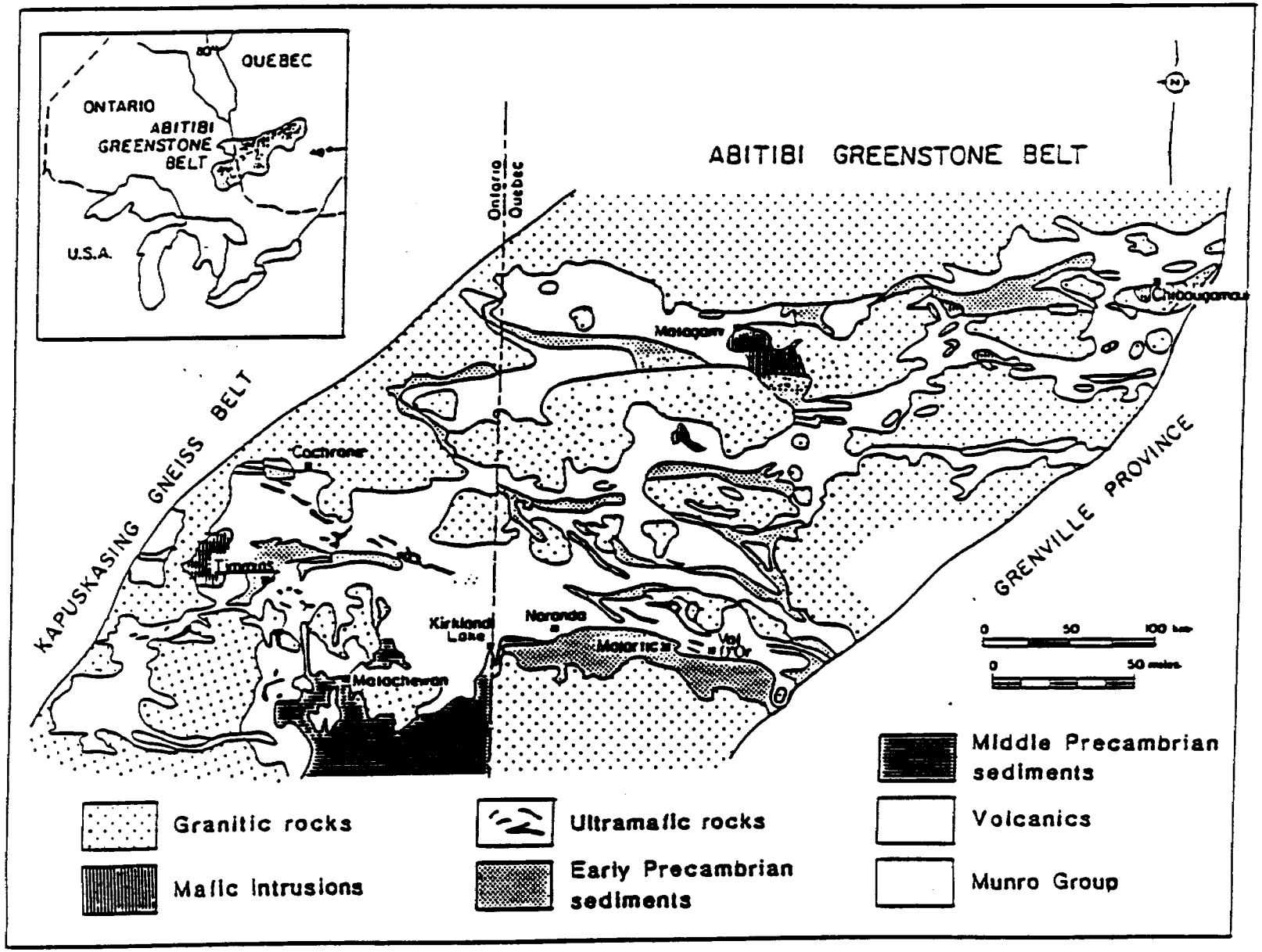


Figure 3 – Geological Map of the Greenstone Belt

Table 1 - Table of Lithologic Units in the Timmins District

ARCHEAN

MAFIC INTRUSIVE ROCKS

FELSIC INTRUSIVE ROCKS

Diorite, quartz diorite, granodiorite, monzonite, quartz and/or feldspar porphyry.

MAFIC INTRUSIVE AROCKS

Gabbro.

ULTRAMAFIC INTRUSIVE ROCKS

Peridotite, serpentinized peridotite
Intrusive contact.

METASEDIMENTARY ROCKS

Conglomerate, lithic wacke, siltstone, lithic arenite.

METAVOLCANIC ROCKS

Felsic Calc. - Alkalic Metavolcanic Rocks
Massive flows, tuff, lapilli tuff, breccia.

Mafic Calc. - Alkalic Metavolcanic Rocks
Masssive flows, pillowed flows, tuff, lapilli tuff, breccia, sheared and carbonated pyroclastics.

Tholeiitic Metavolcanic Rocks
Massive flows, pillowed flows, flow breccia, tuff, lapilli tuff, breccia.

Komatiitic Metavolcanic Rocks
Peridotite, olivine peridotite flows, basalt flows, pillowed flows.

Property Geology

Volcanic and minor sedimentary rocks of the upper part of the Deloro Group are the lithologies which are found on the property (Table 2). Outcrop exposure is less than 5%.

Andesite tuff is the dominant rock type with local units of andesite lapilli tuff-agglomerate, dacite tuff and magnetite-chert iron formation. The occurrence of the iron formation becomes more pronounced in the northwest corner of the property.

Schistosity is well developed in the rocks and displays consistent easterly strikes with vertical to subvertical dips.

Weak to locally strong, pervasive carbonate alteration of the volcanic rocks is a common feature.

An extensive area of trenching was found which trends from about 8+50 W to 13+00 W at 4+00 S. A small (8' x 6') shaft occurs at the east end of the trenching. The excavations explored a white quartz vein hosted by a 20-30 foot wide shear zone within volcanic rock and iron formation. The quartz vein apparently ranges up to 10 feet in width and trends about 100 degrees, dipping steeply to the north. Extensive carbonate alteration and local silicification is associated with the vein zone. Recent sampling of this zone assayed only trace gold values. This vein is probably the No. 1 Vein of Ridgegold Mines.

Diamond Drill Program

Black Cliff Mines Limited of Toronto carried out a single hole diamond drill program on the Ogden Township Property from October 24th to 25th, 1989. Adonos Resources Inc. of Vancouver financed the project. Dominik Drilling Inc. was contracted to do the drilling. The author provided technical support for the program.

Table 2 - Rock Units on the Property

Andesite tuff: fine to medium grain size
(≤ 1 mm - 2 mm), medium green.

Andesite lapilli tuff-agglomerate: medium to very coarse
fragment size (> 2mm - 10 cm)
generally in a tuff matrix,
medium green.

Andesite flow: fine grained (≤ 1 mm), amygdaloidal,
medium green.

Dacite tuff: fine to medium grain size
(≤ 1mm - 2 mm), light green to grey.

Iron formation: banded magnetite - chert oxide facies.

One BQ-sized hole was drilled to a depth of 406 feet. Ten split core samples were taken for ahalysis for Au and Ag. The hole was drilled to examine the geology under a shaft which had been sunk on a gold-bearing quartz vein by Ridgegold Porcupine Mines Ltd.

The drill log is found in the Appendix. A location map and a cross-section of the hole comprise figures 4 and 5 respectively. All of the drill core was donated to the Ontario government core library in Timmins.

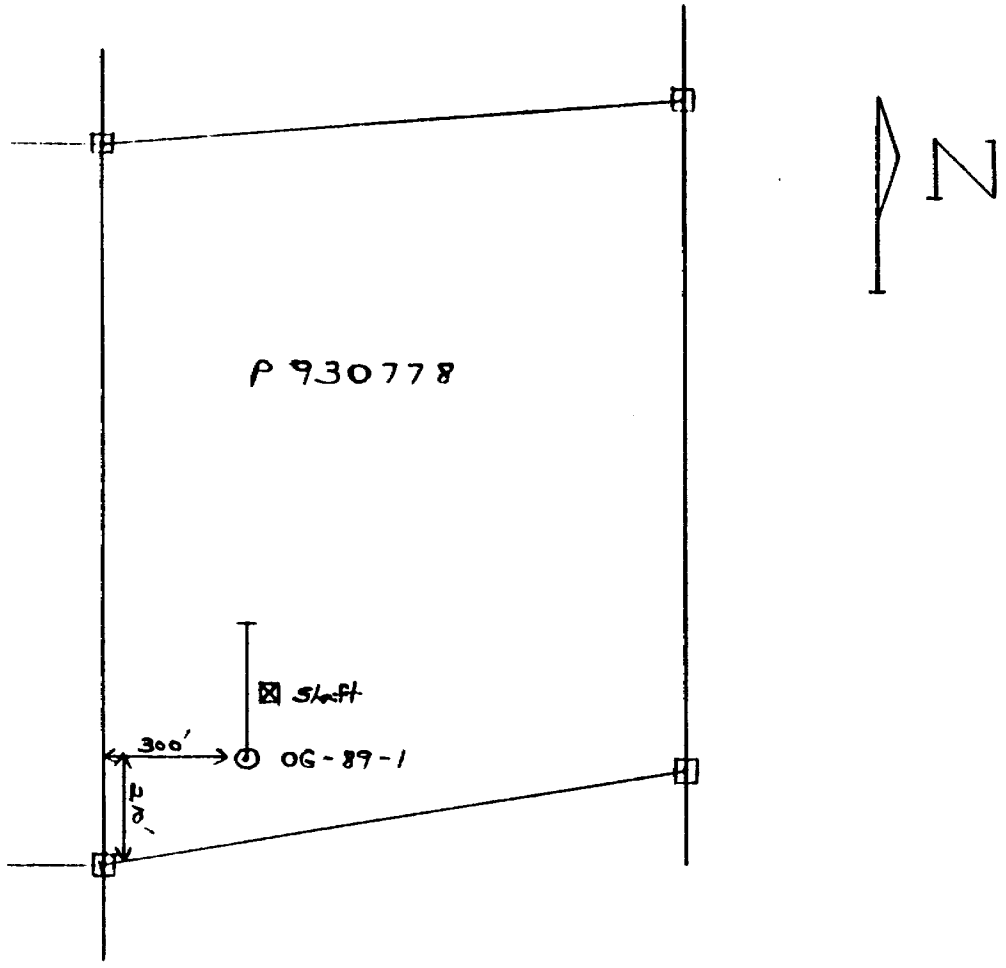
Conclusions and Recommendations

The drill hole intersected well altered andesite flows and tuffs with minor, local quartz veining.

Further drilling is recommended along the known trend of the quartz vein zone if positive assay results are returned from the core samples.

October, 1989

Murray C. Rogers



Scale: 1 inch = 400 feet

Figure 4 - Location of hole OG-89-1.

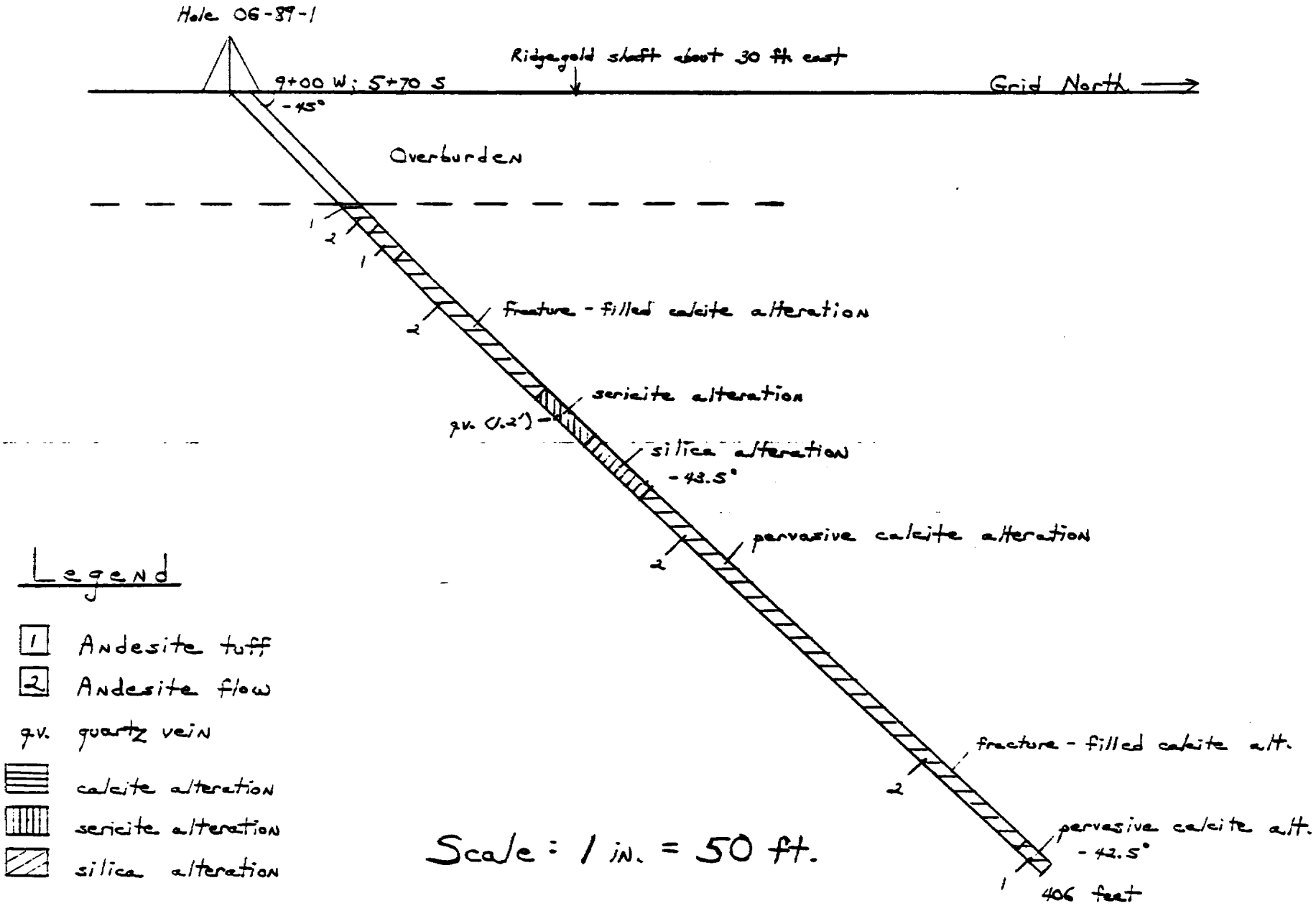


Figure 5 : Cross-section of Hole 06-89-1

Certificate of Qualification

I, Murray C. Rogers, of the City of Toronto, in the Province of Ontario, Canada, hereby certify:

1. That I am a geologist and have been engaged in my profession for approximately ten years.

2. That I am currently employed by Black Cliff Mines Ltd. and hold the position of Chief Geologist with that company.

3. That I am a graduate of the University of Calgary with a B.Sc. degree in Geology (1977) and of Queen's University with a M.Sc. degree in Geology (1982).

4. That I did personally supervise the drill program on the Ogden Township Property.

Dated at Toronto, Ontario, this 30th day of October, 1989.

Murray C. Rogers

Murray C. Rogers

Appendix

Drill Log of Hole OG-89-1

Ogden Township Property
Hole Number : OG-89-1
Location: 9+00 W; 5+70 S
Azimuth: 0°
Dip: -45°
Claim No.: P930778
Core Diameter: BQ
Length: 406 feet
Overburden: 56 feet
Drilled by: Dominik Drilling Inc.
Logged by: Murray C. Rogers
Drilling Dates: October 24 - 25, 1989
Dip Corrections: 200 feet; -43.5°
406 feet; -42.5°

0 - 56.0	Overburden
56.0 - 57.6	Andesite, ash fall tuff; light green, fine grained ($\leq$ 1 mm), massive, composition: 40% plagioclase, 60% pyroxene, 1% disseminated pyrite, local calcite clots and veinlets. Sharp contact.
57.6 - 70.0	Andesite flow; light - medium grey, fine grained (< 1 mm), fair to well defined schistosity at 40° to core axis, local, minor, oval, siliceous amygdules, common (5%) quartz and carbonate veinlets and clots up to 2 cm, straight or irregular, generally random. Gradational contact over 15 cm.

70.0 - 83.0 Andesite tuff; medium grey, fine grained (1 - 2 mm), poor to fair developed schistosity at 40° to c.a., composition: 50% plagioclase, 50% pyroxene, common (5%) quartz - carabonate veinlets - generally 1 -2 mm widths up to 5 cm, straight to irregular, random to foliation parallel.
Sharp contact.

76.9 - 77.3 White quartz vein parallel to foliation.

83.0 - 391.9 Andesite flow, amygdaloidal; medium grey, fine grained (< .5mm), massive to schistose, 5 - 10% oval - circular amygdules - range 1 - 10 mm, average 2 - 5 mm, calcite or quartz-filled dependent upon alteration type, common (2 - 3%) calcite veinlets - straight, random, 1 - 5 mm, extensive alteration - zoned sericite, silica, calcite, local quartz - carbonate veining.

154.7 - 179.3 Extensive, pervasive (25 - 100%) sericite alteration, 1% disseminated pyrite, locally to 2%, well developed schistosity at 35° to c.a.

164.5. - 165.7 White, massive quartz - (carbonate) vein, up to 5% pyrite along narrow selvages.

175.0 - 175.2 White quartz vein.

177.0 - 178.0 100% sericite alteration with 10% brecciated quartz veinlets.

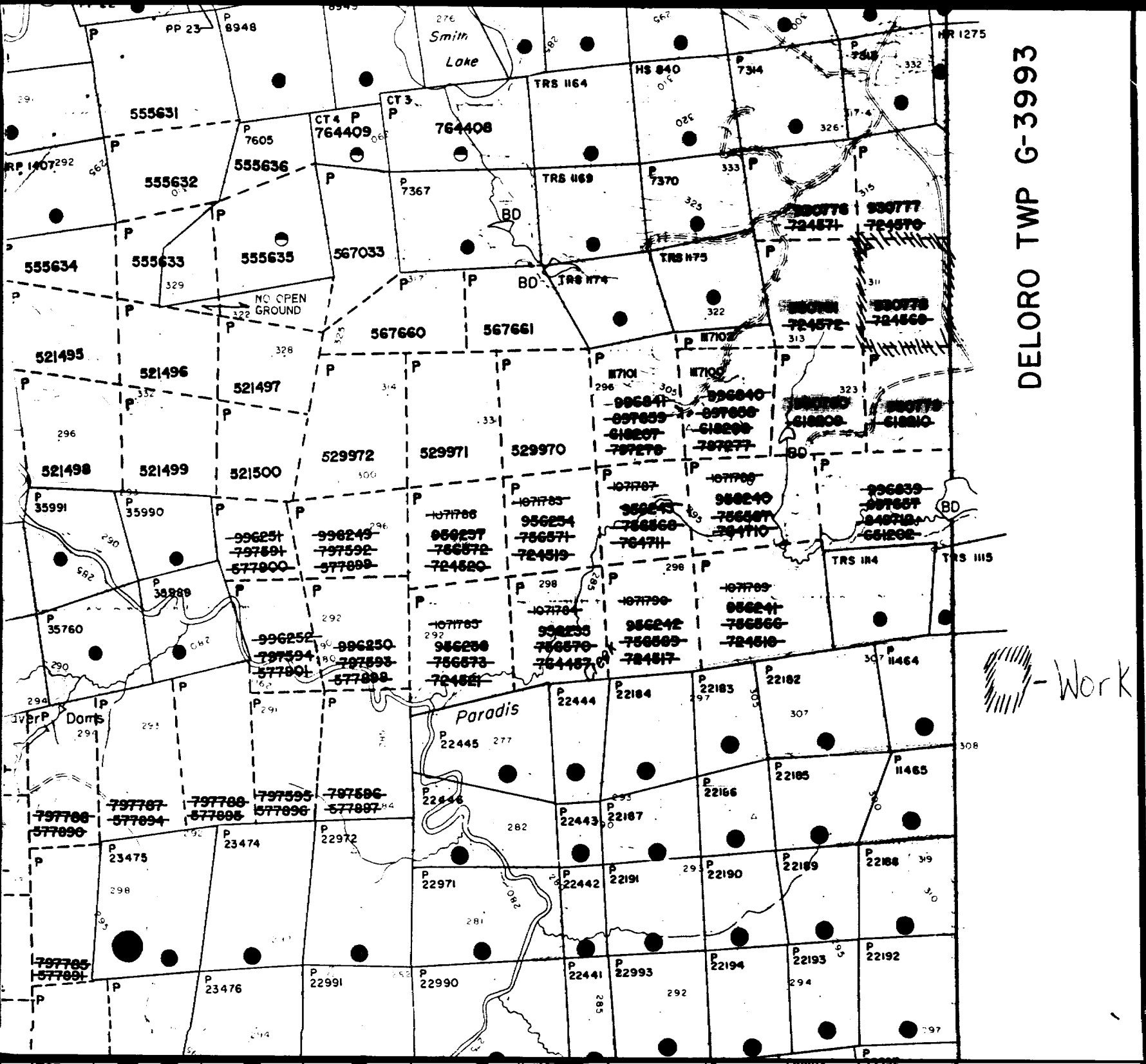
178.7 - 179.3	Quartz veinlet stockwork.
182.0 - 182.6	100% buff silicification.
184.0 - 209.3	10 - 100% silification, buff to reddish-brown, probable hematite, poor to well developed schistosity at 35° to c.a.
184.0 - 186.0	100% buff sil.
188.6 - 190.7	50 - 100% buff sil.
198.0 - 199.2	50 - 100% reddish-brown sil.
204.3 - 207.3	50 - 100% reddish-brown sil.
224.1 - 224.7	75% buff sil.
228.9 - 229.6	50% buff sil.
207.3 - 391.9	Calcite alteration - gradational change from pervasive to veinlet and amygdule - filled only downhole, fair to well developed schistosity at 35° to c.a., local disseminated pyrite to 1%, 5% calcite veinlets.
247.2 - 248.7	Andesite tuff, grain size 1 - 2 mm. Sharp contact.

391.9 - 406.0 Andesite tuff; medium green, fine grained - gradational change from ≤ 1 mm to 1 - 2 mm downhole, massive, composition: 35 - 40% plagioclase, 60 - 65% pyroxene, pervasive calcite alteration, 2 -3% calcite veinlets - straight, random, 1 - 10 mm, occasional white, massive quartz veinlets - veins, irregular, random, up to 5 cm.

End of Hole 406 feet

Sample Nos.	Interval	length	Au (ppb)	Ag (ppb)
867	154.7 - 159.7	5.0	14	
868	159.7 - 164.5	4.8	< 5	
869	164.5 - 165.7	1.2	390	
870	165.7 - 169.2	3.5	< 5	
871	169.2 - 174.2	5.0	< 5	
872	174.2 - 179.5	5.3	< 5	
873	182.0 - 187.0	5.0	< 5	
874	187.0 - 192.0	5.0	< 5	
875	194.0 - 199.0	5.0	< 5	
876	203.0 - 207.3	4.3	< 5	

Murray C. Rogers


DELORO TWP G-3993
Smith Lake
Paradis
NO OPEN GROUND
TRS 1164
TRS 1169
TRS H75
TRS H74
TRS H7102
TRS H7101
TRS H7100
TRS IR4
TRS 1115
555631
555632
555633
555634
555635
555636
567033
567660
567661
521495
521496
521497
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22993
22441
22990
22991
22972
23474
23475
23476
Ogden Twp
- Work Performed On
TOWNSHIP

Ministry of Northern Development and Mines
Ontario

Report of Work

DOCUMENT No. W 9006•002
Mining Act

42A06NW0251 38 OGDEN

900

Name and Postal Address of Recorded Holder

Black Cliff Mines Ltd. 1-4836

2205, 1 Yonge Street, Toronto, Ontario. M5E 1E5

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed: 422

for Performance of the following work. (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work.
- ☐ Compressed Air, other Power driven or mechanical equip.
- ☐ Power Stripping
- ☒ Diamond or other Core drilling
- ☐ Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.
P	930776	70.3
	930777	70.3
	930778	70.4
	930779	70.3
	930780	70.3
	930781	70.4

Mining Claim Prefix	Mining Claim Number	Work Days Cr.

Mining Claim Prefix	Mining Claim Number	Work Days Cr.

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES OFFICE
JAN 11 1990
RECEIVED

All the work was performed on Mining Claim(s): P 930778

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Information and diagram included in drill program report. One drill hole of 406 foot length.
Dates of drilling October 24-25, 1989.
Work days credit claimed:

406 feet @ 1 day/ft. = 406 days

Core donation (receipt enclosed)

PORCUPINE MINING DIVISION
RECEIVED
NOV 6 1989

RECORDED
NOV - 6 1989

feet/25 = 16 days = 16 days

422 days total

Date of Report	Recorded Holder or Agent (Signature)
October 30/89	Murray C. Rogers

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Murray C. Rogers 1032, 95 Trailwood Drive.
Mississauga, Ont. L4Z 3L2

Date Certified	Certified by (Signature)
Oct. 30/89	Murray C. Rogers

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core	Signed core log showing: footage, diameter of		Work Sketch (as