

DIAMOND DRILLING



42L06NE0027 23 O'SULLIVAN LAKE

010

AREA: O'Sullivan Lake

REPORT No.: 23

WORK PERFORMED BY: E.W. Bazinet

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
TB 539522	1	130.0	July/81	(1)
	2	133.5	Aug/81	(1)
TB 539733	3	140.5	Aug/81	(1)
	4	126.0	Aug/81	(1)

NOTES: (1) #207-81

Post No. 1



Claim TB 539733

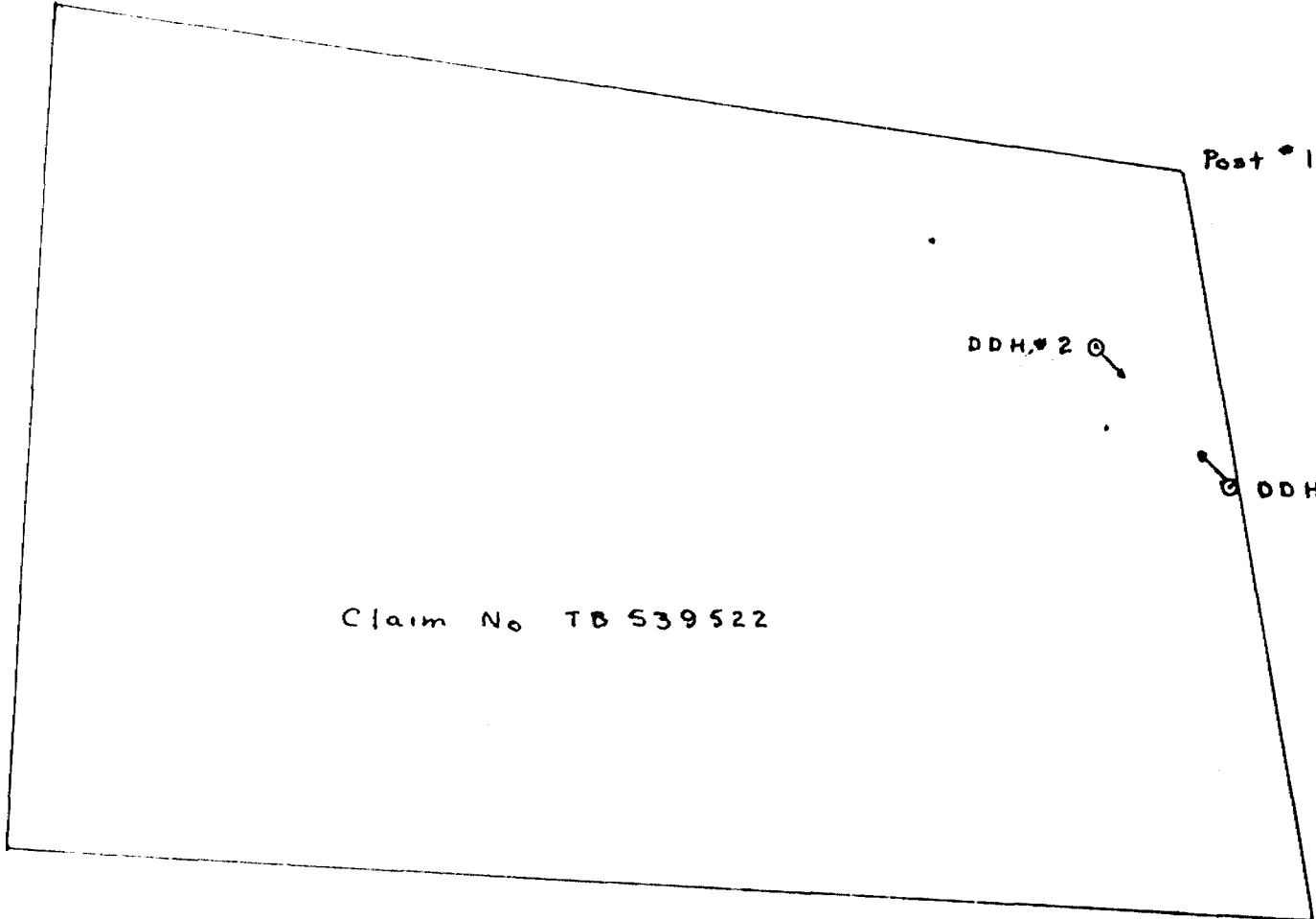
DDH # 4

DDH # 3

O'SULLIVAN CR. #257-81  
E. W. BAZIN ET



Scale 1 in. = 200 ft.



Claim No TB 539522



Scale 1 in = 200 Ft.

Diamond Drill Record

D.D.H. No.1

Location: O'Sullivan Lake area  
Claim No: TB 539522, 350 ft. south of post No.1  
Started: July 25, 1981  
Completed: August 5, 1981  
Total Depth: 130 feet  
Dip: -45°  
Az: Grid North, (N45°W)  
Lat: 21+30N  
Dep: 4+00E  
Core size: 7/8 inches.

0-37	Casing
0-31	Overburden, no core
31-72.1	<u>Andesite</u> : pillowed, locally brecciated especially along pillow selvages. Locally silicified, medium to light green, buff coloured selvages. Locally mineralized with pyrrhotite, chalcopryrite and minor pyrite.
	43.6-44.5: 10% of pyrrhotite with about 3% chalcopryrite.
	44.5-46.1: Minor specs of chalco, Po, Py.
	46.1-47.1: 30% massive Po, minor chalco.
	47.1-72.1: Minor Po, Py and chalco.
72.1-130	<u>Andesite</u> , as from 31 to 72.1 but more intensely brecciated, pillowed. Minor specs of chalco and pyrrhotite throughout locally silicified.
	72.1-74 30% Po, 5% chalco.
	74 .75.5 Occasional specs of Po, Py, chalco.
	75.5-75.7 10% minor Py.
	75.7-76.7 Occasional specs Po, chalco.
	76.7-77 5% Po, 5% chalco.
	77-78.5 Minor specs of Po, Py, chalco.
	78.5-79.1 5% Po, 5% chalco bands and blebs.
	79.1-87.5 Minor specs, Po, Py, chalco.
	87.5-89.4 10% Po, 4% chalco.
	89.4-91 Minor Po and chalco.
	96.1-100.2 5% Po, minor chalco.
	100.2-104.7: Minor specs of Po, Py and chalco.
	104.7-105.3: 15% Po, 2% chalco.
	105.3-108.9: Minor specs Po, Py, chalco.
	108.9-109-3: 50% Po, 5% chalco.
	@117.1 ½ inch of 50% chalco.
	@118 ½ inch of 10% Po.
	@118.5 ½ inch of 50% Po.

D.D.H. No,1 cont'd

215.2-125.4:30% massive Po bands.

End of Hole 130

Lost core: 5 feet between 100 and 130 feet.

Core angles: Variable but predom about 45°

O'Sullivan Lake area

Sample record  
D.D.H. No.1

<u>Sample No,</u>	<u>From</u>	<u>To</u>	<u>Cu</u>	<u>Au</u>	<u>Ag</u>
1949	43.6	47.1			
1950	72.1	79.1			

E. W. Bazinet. P. Eng.



Diamond Drill Record

D.D.H. No.2

Location: O'Sullivan Lake area  
Claim No: TB 539522, 180 feet south and  
100 feet west of post No.1  
Started: Aug. 5, 1981  
Completed: Aug. 15, 1981  
Total depth: 133.5 feet  
Dip: -45°  
Az: Grid south, (S45°E)  
Lat: 21+50N  
Dep: 4+00E  
Core size: 7/8 inches

0 - 27  
23 - 133.5

Casing no core.

Andesite: pillowed, brecciated especially along pillow selvage.

Locally silicified, medium to light green, buff coloured along selvages. Locally mineralized with Po, Py and chalco in fractures and along pillow selvages.

25.3-28.6 Silicified, 25% pyrite, 5% Po, minor specs chalco.

28.6-60 occasional specs and 1/2" to 1" veinlets of semi massive chalco, Po and Py.

@46: 2 inches of semi massive Po, chalco.

47.5-49.5 Several 1/8 inch to 1/4 inch bands of massive Po and chalco, possibly up to 1% copper average.

@52.9:- 1 inch band of semi massive Po, and minor chalco.

@74.7-75.5: 50% Po, 2% chalco.

90-92 20% bands of semi massive Po, minor Py, chalco.  
C.A= 50°

103-103.2 50% bands of massive Po, minor chalco.

@104.5 1 inch of 60% Po, Py.

@107 3 inches of 10% chalco, 5% Po.

@119 2 inches of 10% Po, 5% chalco.

End of Hole 123.5.

D.D.H. No.2 cont'd


Core recovery about 90%

O'Sullivan Lake area

Sample record  
D.D.H. No.2.

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Cu</u>	<u>Au</u>	<u>Ag</u>
1951	25.3	28,6			
1952	90	92			

E. W. Bazinet, P. Eng.



Diamond Drill Record

D.D.H. No.3

Location: O'Sullivan Lake area  
Claim No: TB 539733, 880 feet south and 70 feet west of No.1 post.  
Started: Aug. 16, 1981  
Completed: Aug. 22, 1981  
Total Depth: 140.5 feet  
Dip: -40°  
Az: Grid North, (N45°W)  
Lat: Grid line 4+00E  
Dep: 1+70N  
Core Size: 7/8 inches

0 - 28	Casing
26.8- 41.9	<u>Rhyolite or fine grained porphyry.</u> Locally some feldspar phenocrysts. Minor pyrite in slips and as fine disseminations. Hard siliceous, grey. CA = 45°
41.9 - 45	<u>Porphyry</u> , feldspar phenocrysts and some quartz phenocrysts. Up to 2% fine pyrite and fine arsenopyrite
45 - 49	Core lost, grinding.
49 - 53.7	<u>Andesite</u> , light green, fractured, carbonate in fractures CA = 45°
53.7- 69.7	<u>Porphyry</u> as from 41.9 to 45. Minor fine pyrite and fine arsenopyrite? locally throughout.
69.7 - 71.8	53.7 - 57: Minor diss. Py and arseno
71.8 - 99	<u>Andesite</u> , grey-green. CA = 45°
99 - 102.5	<u>Porphyry</u> as from 41.9 to 45. Minor fine diss Py.
102.5- 140.5	Lost core, grinding <u>Andesite</u> , Minor Po, Py, as disseminations and in narrow bands of semi massive sulfides, probably along pillow selvages.
	@132.9 - 1/4 inch mass. chalco
	@127 2 inches of semi massive pyrrhotite with minor chalco.

End of Hole 140.5

Sample record

D.D.H. No.3

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Cu</u>	<u>Au</u>
1953	41.9	45		
1954	53.7	57		



E. W. Bazinet, P. Eng

A handwritten signature in cursive script, appearing to read "E. W. Bazinet", written over a horizontal line.



Diamond Drill Record

D.D.H. No.4

Location: O'Sullivan Lake area  
Claim No: TB 539733, 810 ft. south and 150 ft. west of post No.1  
Started: Aug. 27, 1981  
Completed: Sept. 4, 1981  
Total Depth: 126 feet  
Dip: -45°  
Az: Grid North (N45 W)  
Lat: Grid line 4+00E  
Dep: 2+75N  
Core Size: 7/8 inches.

0 - 57  
53 - 126

Casing

Andesite: Pillowed, green

@90 feet, 1/2 inch massive chalco  
@91.5, 1 inch of semi-massive  
chalco and pyrrhotite  
@97.8 ft, 1/2 inch of massive  
pyrrhotite and chalco  
@99 ft, 1/2 inch massive pyrrhotite,  
chalco and pyrite  
@114.8, 2 inches of massive  
pyrrhotite, minor pyrite.  
120.5-121-5: 15% chalco, 15% pyrrhotite,  
minor pyrite.  
121.5-125.3: Occasional specs of pyrrhotite  
and chalco.  
125.3-126: 10% chalco and 10% pyrrhotite.

End of Hole 126 feet.

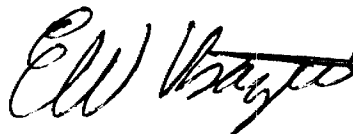
Core Angles: Variable but predom about 45°

Sample record

D.D.H. No.4

<u>Sample No</u>	<u>From</u>	<u>To</u>	<u>Cu</u>	<u>Au</u>	<u>Ag</u>
1955	120.5	126			

E. W. Bazinet, P. Eng.



SOUTH ATLANTIC VENTURES LTD

THUNDER BAY MINING DIVISION

ONTARIO

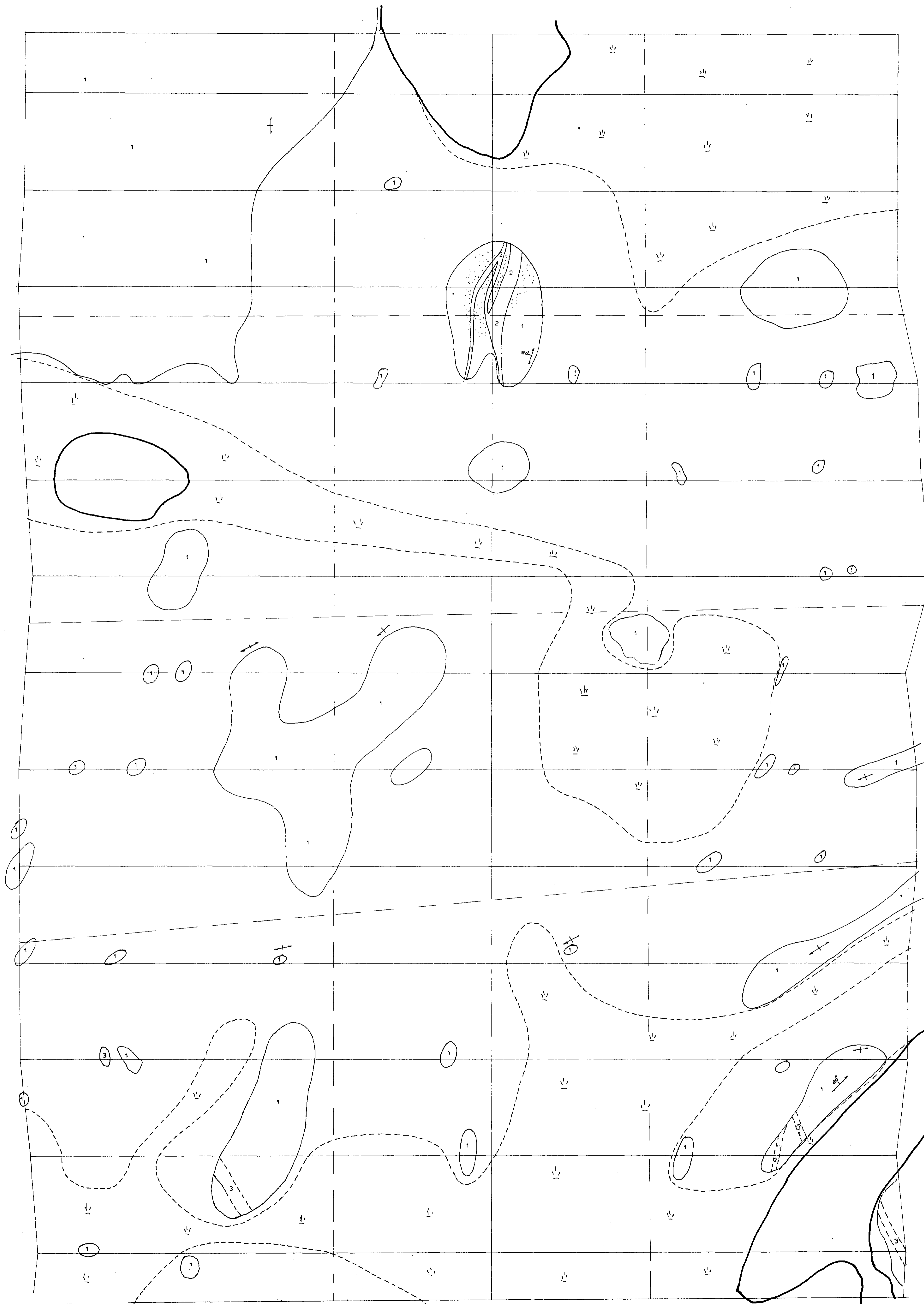
GEOLOGICAL SURVEY

SCALE 1in= 200 ft

SEPT 1981

LEGEND

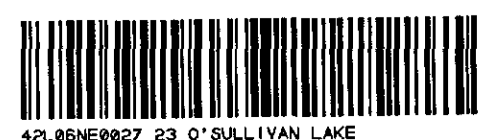
- 3 Diabase
- 2 Quartz-feldspar porphyry
- Chalcopyrite, pyrite, pyrrhotite
- 1 Undifferentiated basic & intermediate lavas pillowed, brecciated, sheared

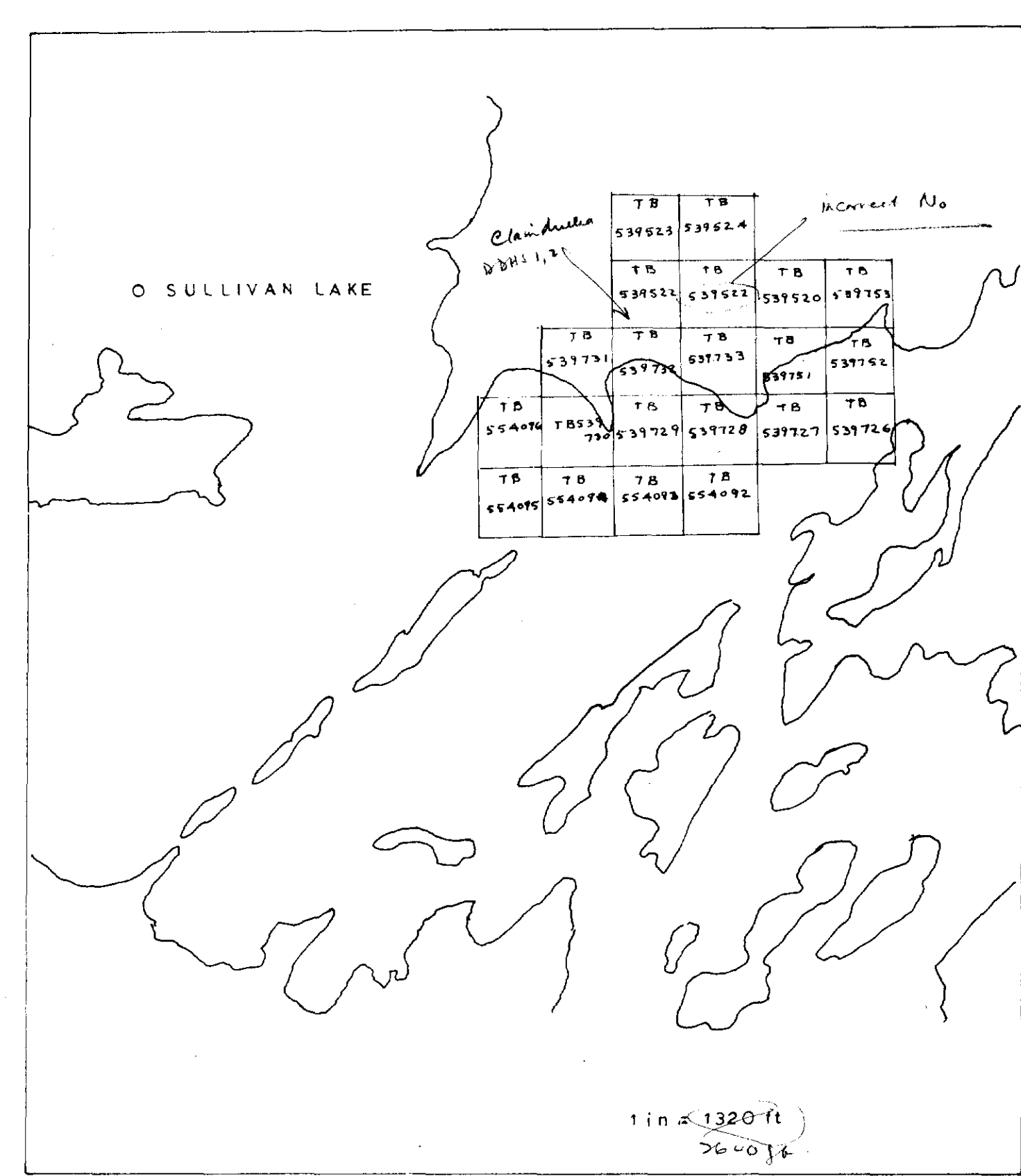
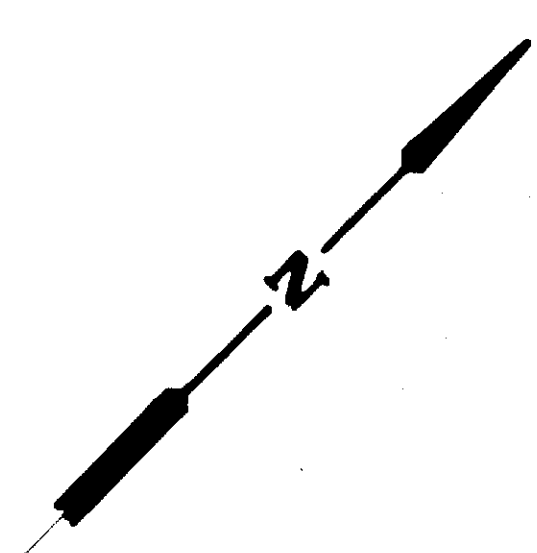


TB	TB	TB
537714	537715	537716
TB	TB	TB
537717	537718	537719
TB	TB	TB
537720	537721	537722
TB	TB	TB
537723	537724	537725



1 inch = 1320 ft





SOUTH ATLANTIC VENTURES LTD  
 THUNDER BAY MINING DIVISION  
 ONTARIO

GEOLOGICAL SURVEY  
 SCALE 1 in = 200 ft  
 SEPT 1981

- LEGEND
- 4 Granodiorite
  - 3 Quartz-feldspar porphyry
  - 2 RHYOLITE
  - 1 Andesite, (a) pillowed, (b) carbonated
  - Mineralized
  - Strike & dip of schistosity

