



42A06NE0421 21 DELORO

010

DIAMOND DRILLING

TOWNSHIP: Deloro

REPORT No.: 21

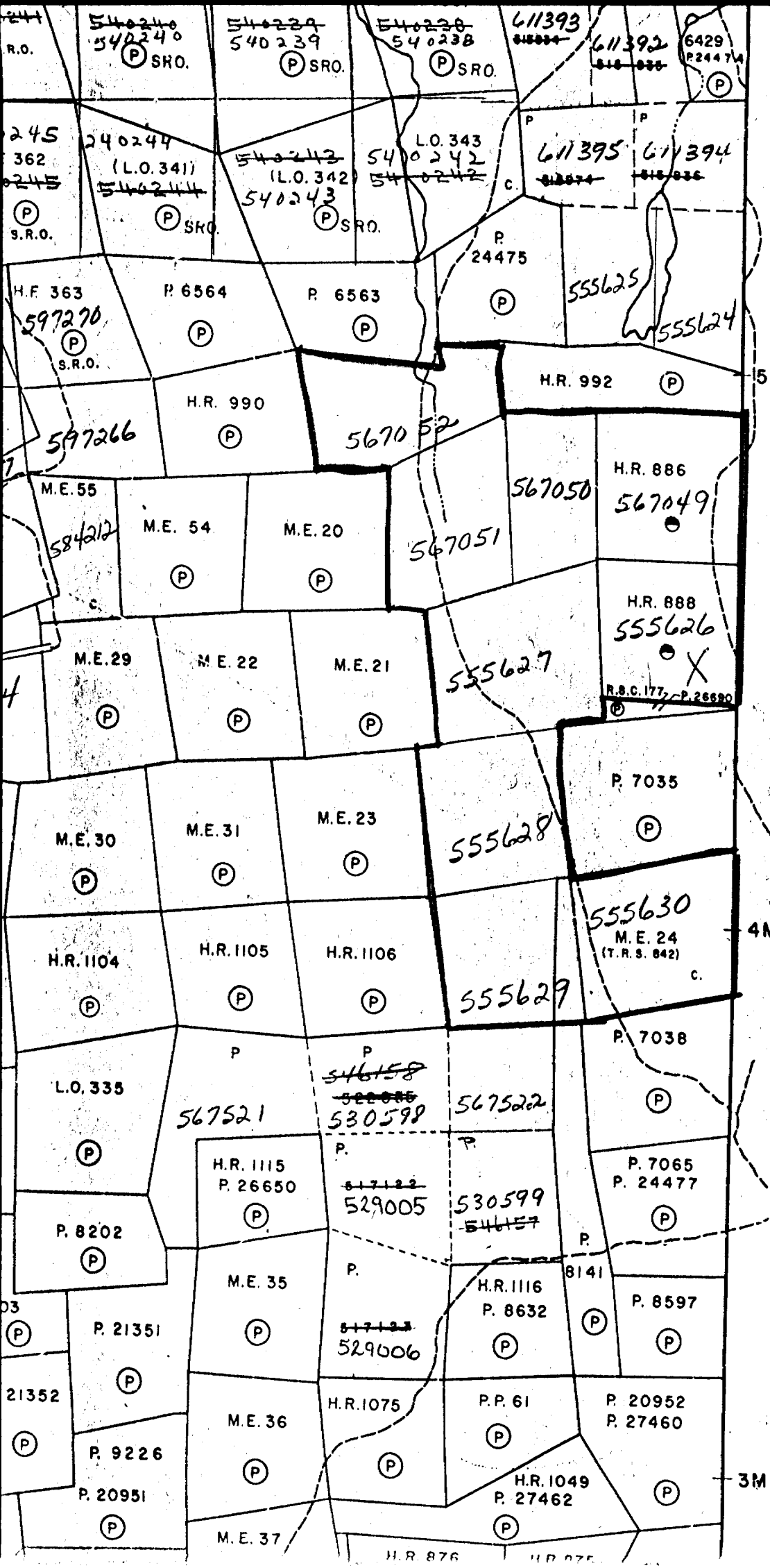
WORK PERFORMED BY: Amax Minerals Exploration

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 555626	1043-14-1	24.0 m	Sept/81	(1)
	1043-14-2	90.0 m	Sept/81	(1)
	1043-14-3	24.0 m	Sept/81	(1)
	1043-14-4	27.0 m	Sept/81	(1)

4 DDH

165 m

NOTES: (1) #109-82



#109-82

Deloro
Twp.

SCALE

PATENTED
CROWN L
LEASES
LOCATED
LICENSE
MINING R
SURFACE
ROADS
IMPROVED
KING'S H
RAILWAYS
POWER L
MARSH O
MINES
CANCELLE
PATENTE

400' Surface
of all lakes

For status of
H.R. 1132; H

Mining claim
are subject
Easement Or
Ltd.

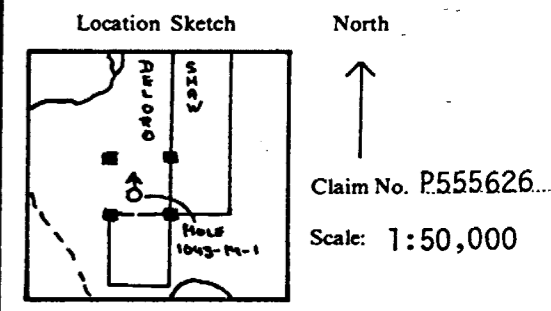
This towns
of CITY of

TWP. M-311

AMAX MINERALS EXPLORATION
 (A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

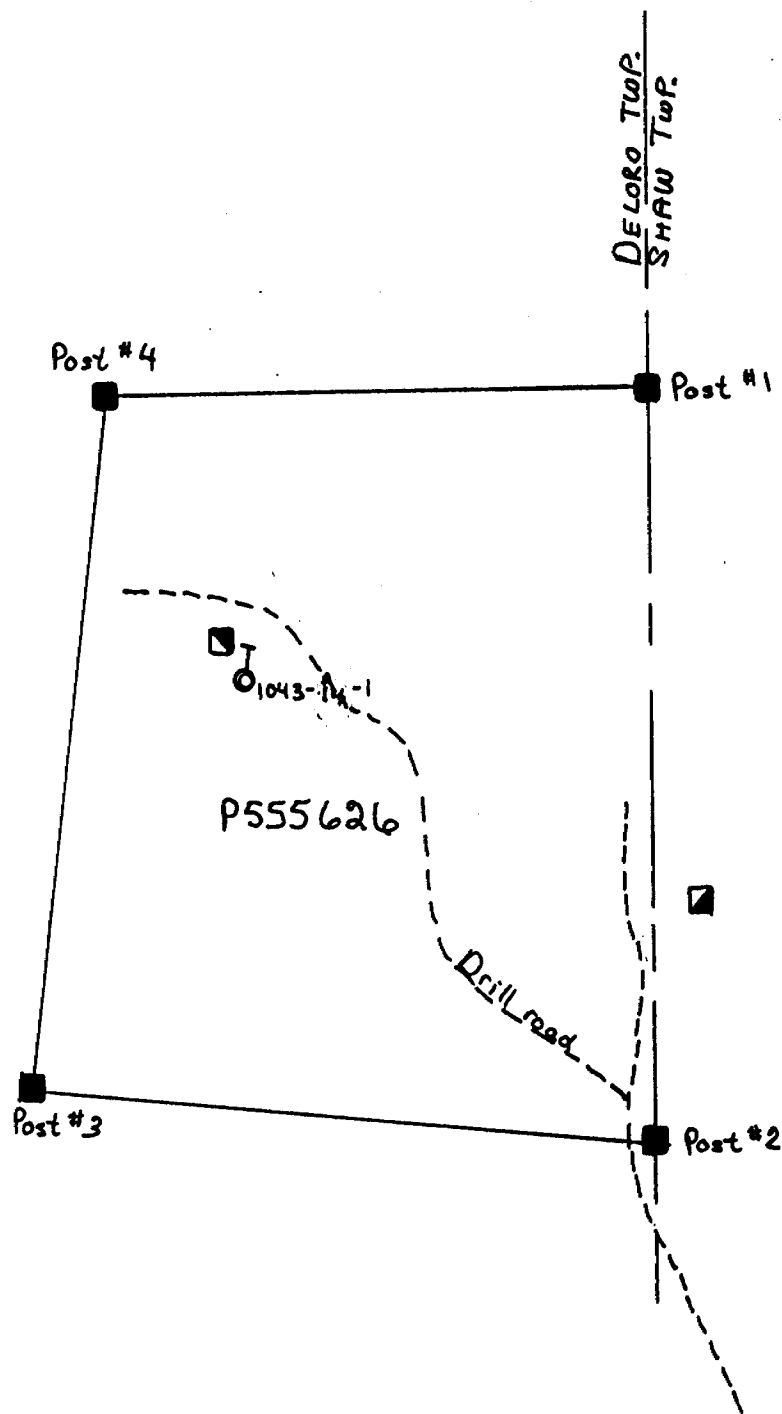
Hole No. 1043-14-1

Hole No. <u>1043-14-1</u> Sheet <u>1</u>	Length <u>24.0 metres</u>	Commenced <u>September 23, 1981</u>	Dip: Collar <u>-45°</u>
Property <u>1043-14</u>	Bearing <u>008°</u>	Completed <u>September 25, 1981</u>	Etch Test _____
Township <u>Deloro</u>	Dip <u>-45°</u>	Drilling Co. <u>St. Lambert</u>	Depth _____
Location <u>L300W, 200N</u>	Objective <u>Quartz stockworks</u>	Core Size <u>BQ</u>	Rdg. _____
Logged By <u>J. MacPherson</u>		Casing Left/ Lost in Hole <u>none</u>	True _____
Core Location <u>Timmins Office</u>			
Remarks _____			



Footage/ Metres		DESCRIPTION
From	To	
0	8.5	INTERMEDIATE TUFF
8.5	24.0	TUFFACEOUS ANDESITIC FLOW
	24.0	END OF HOLE

J. MacPherson



AMAX MINERALS EXPLORATION
Drill Hole Location Map
HOLE 1043-Q4-1
Scale: 1:5,000
DE LORO TOWNSHIP

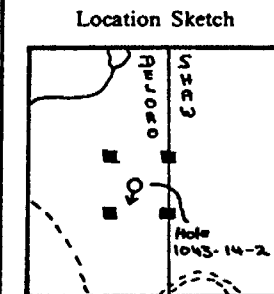
J.M.P.

Timmins

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1043-14-2

Hole No. 1043-14-2	Sheet 1	Length 90.0 metres	Commenced September 24, 1981	Dip: Collar -50°
Property 1043-14		Bearing 196°	Completed September 25, 1981	Etch Test
Township Deloro		Dip -50°	Drilling Co. St. Lambert	Depth 65.0m
Location L300W, 2+30N		Objective Quartz stockworks in shear zone	Core Size BQ	Rdg. -59°
			Casing Left/ Lost in Hole none	True -50°
Logged By J. MacPherson				
Core Location Timmins Office				



North ↑
Claim No. P555626
Scale: 1:50,000

Remarks

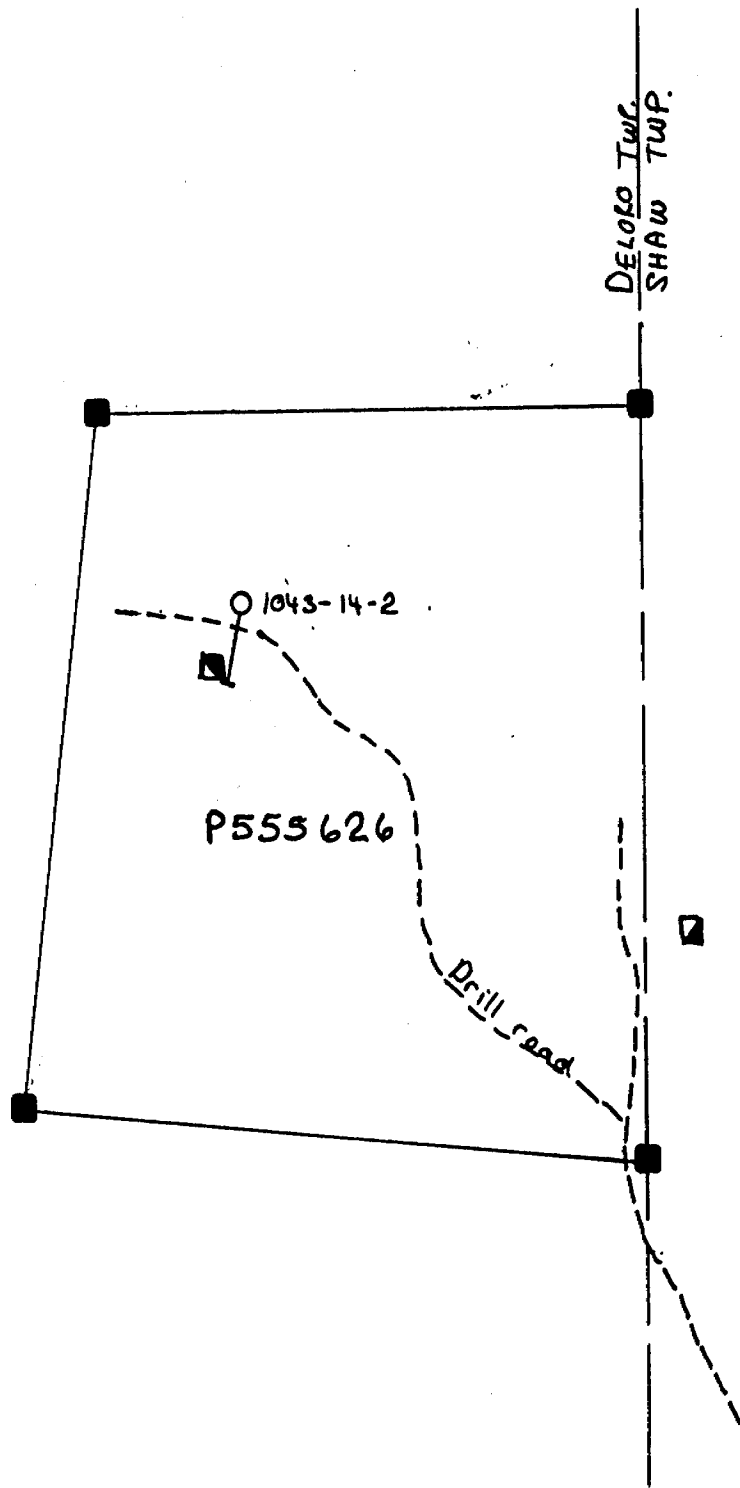
Footage/ Metres		DESCRIPTION
From	To	
0	3.0	OVERBURDEN
3.0	90.0	ANDESITIC FLOWS AND TUFFS
	90.0	END OF HOLE

J. MacPherson

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1043-14-2
Sheet No. 2

Footage		DESCRIPTION
From	To	
0	3.0	OVERBURDEN
3.0	90.0	ANDESITIC FLOWS AND TUFFS
		Rock is medium green, fine grained and massive. Flow may contain quartz eyes. Pyrite may be present in amounts up to 5% locally. Rock is about 5% pervasively carbonatized. Tuff fragments are often highly carbonatized. Tuff fragments are usually <2mm in size and are angular and white in colour.
		In both flow and tuff there may be stretched clasts of a mafic mineral (chlorite?) which are aligned in a preferred orientation.
		3 - 9 metres: section of flow intruded in a series of quartz veins, with up to 20% associated pyrite and less than 2% po. Quartz is milky and fractured, with fractures filled with calcite. Pyrite is found at contacts with quartz vein and wallrock, especially around 8.8 metres. Contacts of quartz veins are at 80% to core axis. Pyrite present both massive and as cubes. Wallrock is highly silicified & in places gives a mottled appearance while in others it appears like a siliceous flowrock.
		9 - 12 : Tuff, with up to 40% pyrite locally. Contains stretched chlorite clasts at 80° to core axis.
		At 15.3: Silicified section, minor pyrite associated
		At 19.6: 2cm wide quartz vein with <1% pyrite.
		At 25.4: 2cm wide quartz vein with reddish carbonate alteration and 5% pyrite associated. Contacts with wall rock are sharp, but minor pyrite present for about 5 metres each side of quartz vein.
		At 31.7: narrow quartz veinlets, with rust staining and minor pyrite.
		At 45 - 48.5: series of narrow quartz veinlets, some mineralized with pyrite, others are barren. All less than 3 metres wide.
		At 52.4: 2cm wide quartz vein with 1% pyrite.
		57.0 - 60.0: A few quartz veins with pyrite at wallrock vein contact and into the wallrock in some areas.



AMAX MINERALS EXPLORATION
Drill Hole Location Map
HOLE 1043-14-2
Scale: 1:5,000
DELORO TOWNSHIP
J.M.P. Timmins

AMAX MINERALS EXPLORATION
 (A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1043-14-3

Hole No. 1043-14-3 Sheet 1	Length 24.0 metres	Commenced September 26, 1981	Dip: Collar -50°
Property 1043-14	Bearing 196	Completed September 26, 1981	Etch Test Depth Rdg. True
Township Deloro	Dip -50° South	Drilling Co. St. Lambert	
Location L350W, 270N	Objective Shear zone	Core Size BQ	
		Casing Left/ Lost in Hole none	
Logged By J. MacPherson			
Core Location Timmins Office			

Location Sketch

North ↑

Claim No. P555626

Scale: 1:50,000

Remarks

Footage/ Metres		DESCRIPTION
From	To	
0	6.3	DACITE FLOW
6.3	7.5	ANDESITE FLOW
7.5	15.3	DACITE-ANDESITE FLOW
15.3	24.0	SILICEOUS FLOWS AND TUFFS
	24.0	END OF HOLE

J. MacPherson

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

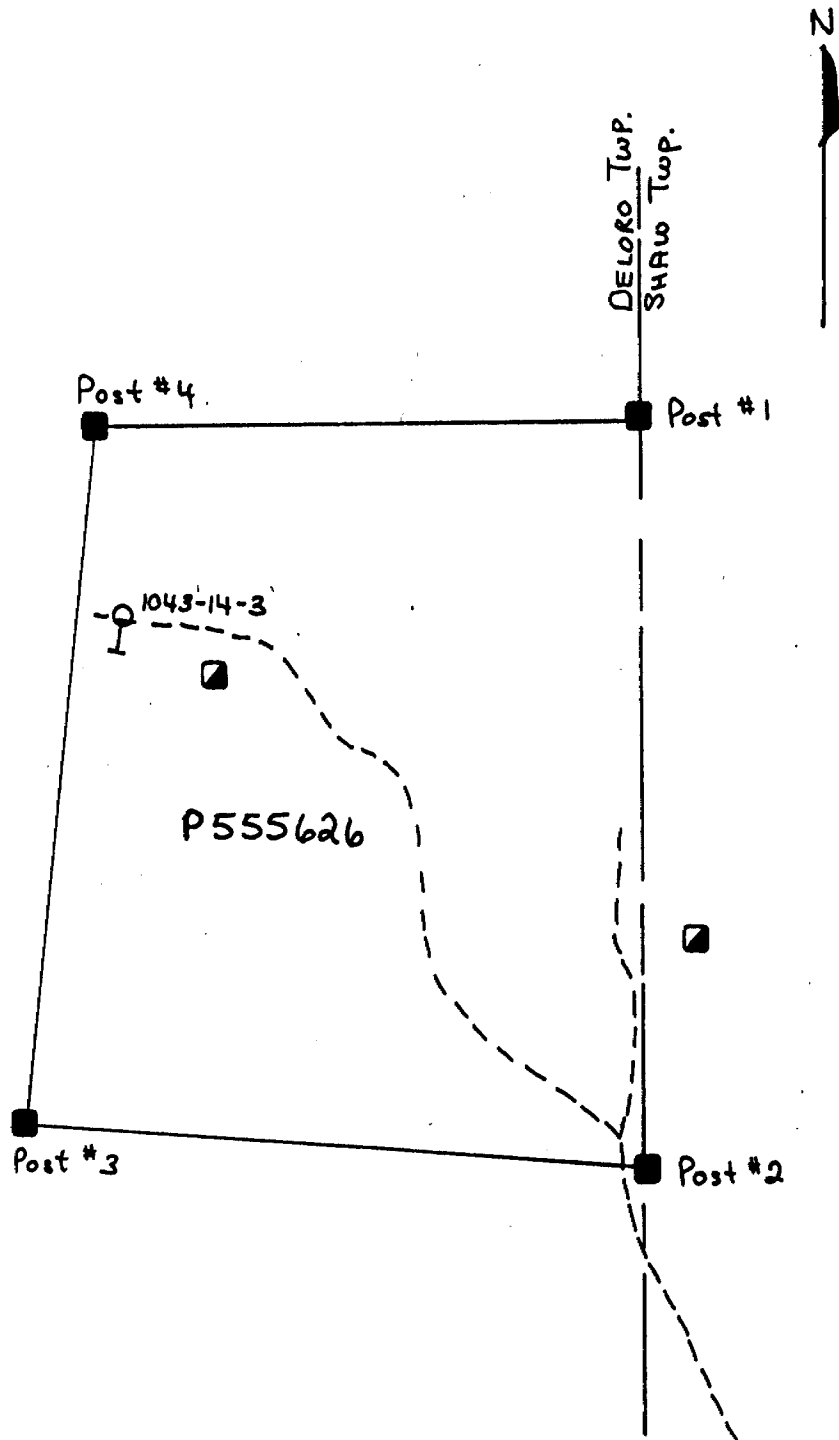
Hole No. 1043-14-3
Sheet No. 2

Footage		DESCRIPTION
From	To	
0	6.3	DACITE FLOW
		Light greyish green, fine grained. May contain the occasional tuff fragment. Contains white amphibole appearing crystals up to 5mm long, randomly oriented. 1% sulphides occurring as massive blebs of pyrite. Lightly pervasively carbonatized up to 10%. No quartz veining.
6.3	7.5	ANDESITE FLOW
		Less siliceous than above yet lighter in colour. Distinctive lack of carbonate alteration. Softer than dacite flow. Contains lineations aligned at 80° to core axis. Contact with dacite is gradual. May be a felsic intermediate tuff. (Quartz eyes present) or quartz eye dacite
7.5	15.3	DACITE-ANDESITE FLOW
		Dacite-andesite flow cut by numerous quartz - carbonate veins and stringers. Pyritic shear zone at 7.5 metres. Host rock is soft and tuffaceous in places. Colour ranges from medium to light greyish-green. May contain up to 10% cubic and massive pyrite.
		7.5 - 7.9: Quartz carbonate vein. (Carbonate-calcite and is in fractures in the quartz - 15% carbonate). Contacts with host are fairly sharp and are at 60° to core axis. Upper contact is at shear at 7.5 metres and is very sharp. Lower contact is more gradational. Mineralogy: Pyrite - massive and occurs as blebs in quartz veins and a contact with host 20%. Po - occurs as stringers <1%. Asp - arsenicpyrite - occurs as subhedral crystals, silver white, in quartz veins 1%.
		9.6 - 10.2: Series of quartz veins, no associated carbonate. One vein is ≈15cm wide. Pyrite is found at the contact with host as well as in fractures in the quartz vein. Amount: 15% contacts are fairly sharp. <<1% cp and pyrite also present. Appears to be 2 ages of vein indicated here.

AMAX MINERALS EXPLORATION
 (A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1043-14-3
 Sheet No. 3

Footage		DESCRIPTION
From	To	
		12.85 - 14.70: Quartz vein about 2 metres wide. Quartz has intruded in 2 stages. First stage is sugary quartz, second stage intrudes first stage and is more milky. Sulphides present and at margins of vein in amounts up to 20%. 13.3 - 13.8 metres is 60% sulphides - Po and Cp combine to replace pyrite in spots. Proportion: py - 60% po - 35% cp - 3% Asp - <2% } totalling average of 20% of rock
		Note: Sulphide rich section is 70% pyrite, 35% po, 5% cp Contacts with wallrock are sharp and at 73° to core axis. Note: Lower contact downhole is brecciated and there is a grading upto the next unit of the sulphides.
15.3	24.0	SILICEOUS FLOWS AND TUFFS More siliceous than rocks up-hole of quartz vein. Both felsic and mafic tuff fragments are present (less than 2mm in diameter). Occasional quartz eye also present. 15.3 - 18.55: Dacite tuff 15.3: Quartz vein with 15% pyrite. 18.55 - 18.90: Siliceous flow (rhyolite), cut by pyrite-bearing quartz vein in a 2cm wide shear, heavily carbonatized. 18.90 - 20.90: Dacitic tuff 20.90 - 21.75: Siliceous section - possible flow. Contains greenish blebs - epidote or fuchsite? 22.0: 2cm wide shear zone, heavily carbonatized. 21.75 - 24.0: Dacite tuff, up to 5% pyrite as disseminations or as massive blebs.
	24.0	END OF HOLE

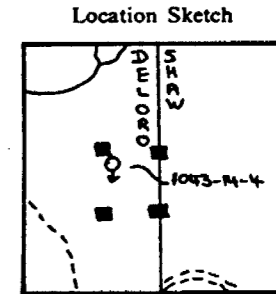


AMAX MINERALS EXPLORATION
Drill Hole Location Map
HOLE 1043-14-3
Scale: 1:5,000
DELORO TOWNSHIP
J.M.P. Timmins

AMAX MINERALS EXPLORATION
 (A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1043-14-4

Hole No. 1043-14-4 Sheet 1	Length 27.0 metres	Commenced September 26, 1981	Dip: Collar -50°
Property 1043-14	Bearing 196°	Completed September 28, 1981	Etch Test
Township Delora	Dip -50° South	Drilling Co. St. Lambert	Depth
Location L350W, 300N	Objective Quartz vein system	Core Size BQ	Rdg.
		Casing Left/ Lost in Hole none	True
Logged By J. MacPherson			
Core Location Timmins Office			



Claim No. P555626
 Scale: 1:50,000

Remarks

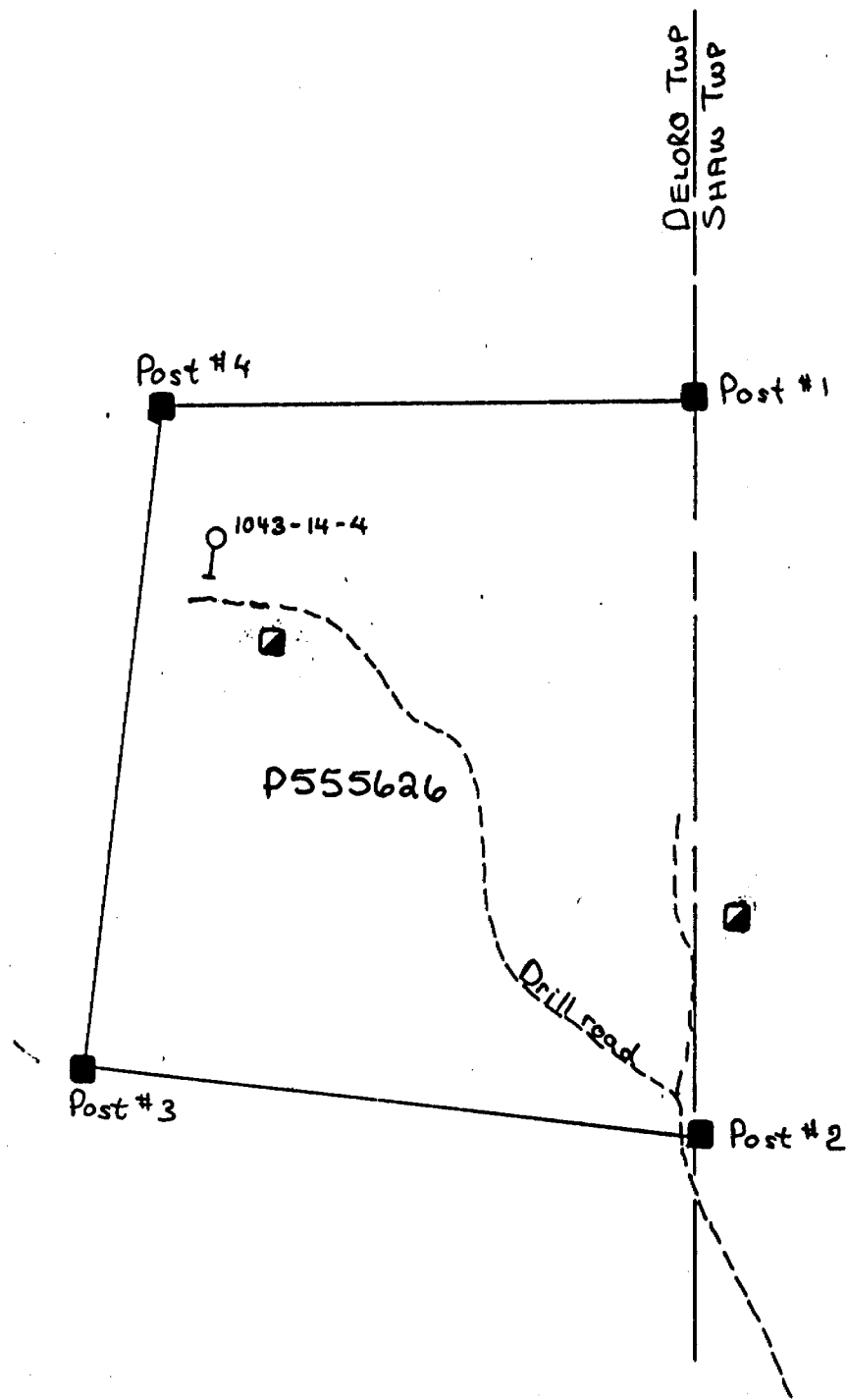
Footage/ Metres		DESCRIPTION
From	To	
0	2.0	OVERBURDEN
2.0	12.3	ANDESITE FLOW
12.3	13.1	DACITE FLOW
13.1	21.0	DACITE FLOW
21.0	27.0	RHYODACITE FLOW
	27.0	END OF HOLE

J. MacPherson

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 1043-14-4
Sheet No. 2

Footage		DESCRIPTION
From	To	
0	2.0	OVERBURDEN
2.0	12.3	ANDESITE FLOW
		Massive, fine grained, medium to dark green. Contains numerous small narrow lathes of a white mineral, forming a chicken track "texture" May contain 1 or 2% sulphides locally.
		5.5 - 5.7: Epidote - rich section, with a few narrow quartz stringers and about 5% associated pyrite.
12.3	13.1	DACITE FLOW
		Light greyish-green, with numerous light grey phenocrysts. Fine to medium grained and massive. Contact with andesite flow is fairly sharp. Lower contact with a fine grained dacite flow is much more gradational.
13.1	21.0	DACITE FLOW
		No phenocrysts, light greyish-green massive and fine grained.
		14.0: 2cm wide shear zone, highly carbonatized
		14.35 - 14.50: Quartz vein, with carbonate in fractures. No sulphide mineralization, minor tourmaline present. Contact is at 45° to the core axis.
		14.90 - 14.95: Narrow quartz vein, as above
		Note that dacite host is lighter in colour and contains lineaments of chlorite crystals, lining up at ≈80° to the core axis.
		15.3 - 15.5: Quartz carbonate vein with up to 10% associated sulphides. These are present as stringers in the vein and also as blebs at contact with dacite. Sulphides consist of 90% pyrite, 10% po. Po stringers appear to follow a bedding pattern in host rock. This section may be a chert band.
		15.5 - 21.0: Series of what may be chert horizons with later brecciation and intrusion by quartz veins. SiO ₂ - rich sections contain up to 20% sulphides, mostly as stringers in the intruding quartz vein. About 70% py, 29% po and <1% cp make up the sulphides.



AMAX MINERALS EXPLORATION
Drill Hole Location Map
HOLE 1043-14-4
Scale: 1:5,000
DELORO TOWNSHIP
J.M.P. Timmins