



41009NW0021 16 MALLARD

DIAMOND DRILLING

010

TOWNSHIP: Mallard

REPORT NO.: 16

WORK PERFORMED BY: Adeline International Mines Ltd.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 545435	AIM-83-1	500	Nov/83	f (1)
P 545432	AIM-83-2	400	Dec/83	(1)
P 545432-3	AIM-83-3	408	Nov/83	(1)
P 545433	AIM-83-4	500	Nov/83	(1)
P 548437	AIM-83-5	500	Dec/83	f (1)
P 548437	AIM-83-6	500	Dec/83	(1)
P 548437-8	AIM-83-7	550	Dec/83	f (1)
P 548439	AIM-83-8	650	Dec/83	(1)
P 548438	AIM-83-9	400	Dec/83	f (1)
P 548439	AIM-83-10	592	Dec/83	(1)

NOTES: (1) #19-84

# DIAMOND DRILL RECORD

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CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP

BQ CORE

D.D.H. No. AIM-83-1

PAGE 1/7

LATITUDE 60 + 00 E BEARING OF HOLE GRID NORTH (036<sup>0</sup>) STARTED NOV. 20, 1983

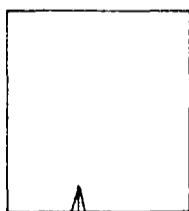
CLAIM No. P. 545435

DEPARTURE 8 + 50 S DIP OF HOLE -45<sup>0</sup> COMPLETED NOV. 22, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS NONE TAKEN DEPTH 500.0'

NE. CLAIM POST



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
0	12.0	Casing						
12.0	18.3	Mafic Tuff						
		Dark green, medium to coarse-grained, poorly bedded, chloritic. biotitic. soft.						
		Dark to medium green, fine-grained. finely to fairly well bedded, traces of pyrite crystals. Bedding is at 64% to C.A. chloritic and slightly sericitic. contains small (2 1') sections of medium grained tuff.						
		Very narrow Py sections at 60.4', 69.8' and 72.8'.						
		Narrow white quartz at 81.0' and 82.0'. Veins are 2-4" wide. At 116.8' bedding is 55 <sup>0</sup> to C.A.						
18.3	133.0	Intermediate Tuff						

Sharp conformable out contact.



# DIAMOND DRILL RECORD

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CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP

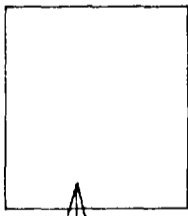
D.D.H. No. AIM-83-1

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LATITUDE 60 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 20, 1983

DEPARTURE 8 + 50 S DIP OF HOLE -45° COMPLETED NOV. 22, 1983

ELEVATION ----- DIP TESTS NONE TAKEN DEPTH 500.0'



CLAIM No. P. 545435  
 DIRECTION AND DISTANCE FROM  
NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
164.2	225.3	Intermediate Tuff.						
		Dark to medium green, fine-grained, finely-bedded, chloritic, bedding at 57° to C.A.						
		From 175.2' - 176.6' grey feldspar porphyry subvolcanic unit.						
		From 176.6' - 210.0' intermediate tuff becomes medium grained and more chloritic, darker green.						
		Sharp conformable out contact.						
225.3	235.0	Felsic Tuff.						
		Grey, fine-grained, finely-bedded, sericitic rock.						
		Traces of pyrite cubes.						

# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP

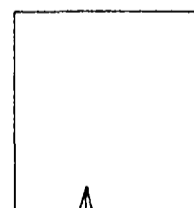
D.D.H. No. AIM-83-1


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LATITUDE 60 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 20, 1983

DEPARTURE 8 + 50 S DIP OF HOLE -45° COMPLETED NOV. 22, 1983

ELEVATION ----- DIP TESTS NONE TAKEN DEPTH 500.0'



CLAIM No. P.545435  
 DIRECTION AND DISTANCE FROM  
  
NE. CLAIM POST

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
235.0	237.2	Intermediate Tuff.						
		Dark to medium green, fine-grained, finely-bedded, chloritic. Traces of pyrite.						
237.2	254.5	Felsic Tuff.						
		Grey, fine-grained with < 1" chloritic interbeds but mostly sericitic, finely-bedded, traces of pyrite. Sharp conformable out contact.						
254.5	273.3	Intermediate Tuff.						
		Medium green, fine-grained to medium-grained, finely- bedded. Traces of pyrite, chloritic and sericitic. Sharp conformable out contact.						





# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP

D.D.H. No. AIM-83-1

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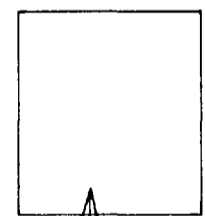
LATITUDE 60 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 20, 1983

CLAIM No. P.545435

DEPARTURE 8 + 50 S DIP OF HOLE -45° COMPLETED NOV. 22, 1983

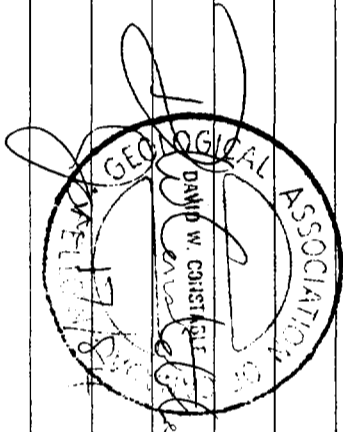
DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS NONE TAKEN DEPTH 500.0'



NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
426.0	500.0	Felsic Tuff.						
		Grey to grey-green, fine-grained, finely-bedded, sericitic, traces of pyrite.						
		From 440.6' - 441.9' felsic tuff is hematized and contains 3 % pyrite (disseminated).						
		From 496.0' - 498.2' intermediate tuff, green, poorly-bedded, chloritic.						
		END OF HOLE 500.0' AIM-83-1						





# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY BQ CORE

D.D.H. No. AIM-83-2 PAGE 1/6

LATITUDE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED DEC. 1, 1983

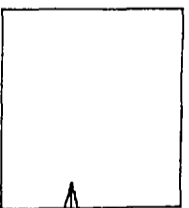
CLAIM No. P.545432

DEPARTURE 4 + 50 S DIP OF HOLE -45° COMPLETED DEC. 5, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS ----- DEPTH 400.0'

NE. CLAIM POST



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
0	42.0	CASING						
42.0	110.1	Felsic Tuff						
		Grey with minor grey-green (chloritic) sections, fine-grained, finely-bedded, sericitic, average hardness.						
		Bedding is at 65° to C.A. Nil to trace sulfides.						
		50.7' - 54.0' chloritic, green intermediate tuff section.						
		61.0' - 68.0' trace to 1% pyrite cubes (disseminated).						
		Rock shows evidence of tight macro-scale folding with schistosity parallel bedding parallel to C.A. in places.						
		Sharp conformable out contact.						
110.1	116.4	Intermediate Tuff						
		Dark green, medium to fine-grained, poorly-bedded, massive,						

# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-2

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LATITUDE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED DEC. 1, 1983

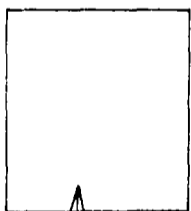
CLAIM No. P. 545432

DEPARTURE 4 + 50 S DIP OF HOLE -45° COMPLETED DEC. 5, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS ----- DEPTH 400.0'

NE. CLAIM POST



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
		chloritic, soft. Nil to trace pyrite.						
116.4	184.0	Felsic Tuff						
		Grey to grey-green, fine-grained, finely-bedded at 60° to C.A. Nil to trace pyrite, sericitic.						
		From 132.1' - 133.8' hematized felsic tuff, trace pyrite.						
		At 147.6' - 1"-wide quartz vein with tourmaline.						
		At 150.7' - sand seam 2" wide.						
		At 156.1' - 1/8" pyrite seam.						
		163.7' - 168.0' dark green mafic tuff.						
184.0	236.2	Mafic Tuff						
		Dark green, medium-grained, poorly-bedded, chloritic, nil sulfides.						

# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

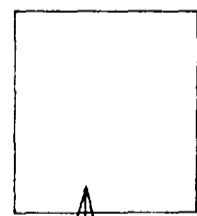
D.D.H. No. AIM-83-2

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LATITUDE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED DEC. 1, 1983

DEPARTURE 4 + 50 S DIP OF HOLE -45° COMPLETED DEC. 5, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 400.0'



CLAIM No. P. 545432  
DIRECTION AND DISTANCE FROM  
NE. CLAIM POST

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
236.2	317.3	Felsic Tuff						
		Grey, finely-bedded, fine-grained, sericitic with nil to traces of sulfides (PY). Bedding is at 70° to C.A.						
		240.7' - 241.2' dark green, mafic tuff section.						
		At 255.1' - 1"-wide pyritic bed						
		273.0' - 275.7' - grey feldspar porphyry horizen						
		293.0' - 293.5' - green, intermediate tuff, chloritic						
		trace to 1% pyrite						
		294.9' - 295.2' - grey feldspar porphyry (porphroblasts)						
		300.9' - 301.5' - pink to red, arkosic bed; sharp, conformable in and out contacts						
		306.5' - 308.9' - dark green, intermediate tuff, chloritic sharp conformable in and out contacts						
		308.9' - 313.7' - hematized felsic tuff, red with 1-2% pyrite.						
		Sharp conformable out contact.						







# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

LATITUDE LINE 8 + 00 W BEARING OF HOLE GRID NORTH (036°) STARTED Dec. 13, 1983

DEPARTURE 15 + 00 S DIP OF HOLE -45° COMPLETED Dec. 16, 1983

ELEVATION ----- DIP TESTS \_\_\_\_\_ DEPTH 550.0'

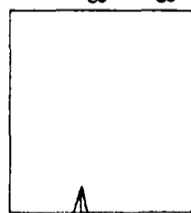
D.D.H. No. AIM-83-7

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CLAIM No. 135' in P. 548437

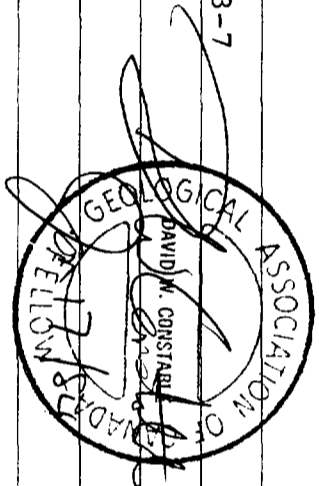
415' in P. 548438  
DIRECTION AND DISTANCE FROM

NE. CLAIM POST



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY					
FROM	TO			FROM	TO							
539.9	550.0	Felsic Tuff  pink to light green, fine-grained, hematized, finely-bedded unit with traces of pyrite in euhedral cubes along the bedding.										

550.0' END OF HOLE AIM-83-7



# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-2

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LATITUDE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED DEC. 1, 1983

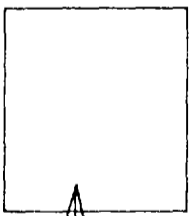
CLAIM No. P. 545432

DEPARTURE 4 + 50 S DIP OF HOLE -45° COMPLETED DEC. 5, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS ----- DEPTH 400.0'

NE. CLAIM POST



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			

373.5 400.0 Mafic Tuff

Dark green, medium to fine-grained, poorly to faintly-bedded, chloritic, nil to trace pyrite.

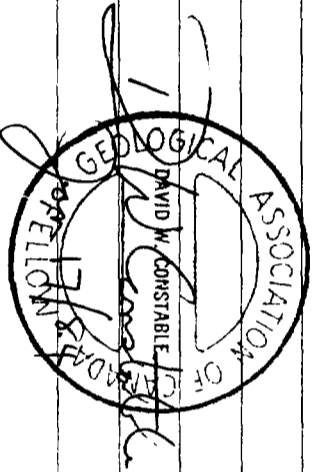
396.9' - 398.4' pink to white feldspar porphyry with

40% euhedral feldspar phenocrysts present.

Sharp, conformable in and out contacts.

400.0' END OF HOLE

AIM - 83 - 2





# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

BQ CORE

D.D.H. No. AIM-83-3

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LATITUDE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 28, 1983

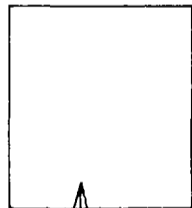
CLAIM No. 133' in P. 545432  
275' in P. 545433

DEPARTURE 1 + 00 S DIP OF HOLE -45° COMPLETED NOV. 30, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS ----- DEPTH 408.0'

NE. CLAIM POST



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
0.0	51.0	CASING						
51.0	63.7	Interbedded Intermediate and Felsic Tuff						
		Dark green to grey, interbedded, chloritic, medium-grained tuff and sericitic, fine-grained felsic tuff.						
		Trace pyrite. Well-bedded at 55° to C.A.						
		Sharp out contact.						
63.7	86.4	Mafic Tuff						
		Dark green, medium-grained, poorly-bedded chloritic and soft.						
		From 80.4' - 83.9' white to tan felsic tuff, sericitic.						
		Sharp out contact.						



# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-3

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LATITUDE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 28, 1983

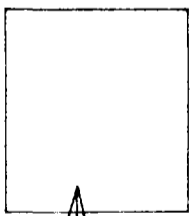
133' in P-545432  
CLAIM No. 275' in P-545433

DEPARTURE 1 + 00 S DIP OF HOLE -45° COMPLETED NOV. 30, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS ----- DEPTH 408.0'

NE. CLAIM POST



FOOTAGE FROM TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
			FROM	TO			
158.0 184.8	Mafic Tuff  Dark green, medium-grained, poorly-bedded. nil to trace pyrite, chloritic.  175.9' - 176.4' porphyry section.  Gradational out contact.						
184.8 259.7	Felsic Tuff  Grey to grey-green, fine-grained, finely to poorly-bedded, sericitic. soft to medium hard. Bedding is at 63° to C.A. 215.7' - 219.2' - grey feldspar porphyry, 10% white phenocrysts 230.2' - 232.3' - mafic tuff 232.3' - 234.7' - grey feldspar porphyry, 8% white phenocrysts. Gradational contacts with						

# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-3

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LATITUDE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 28, 1983

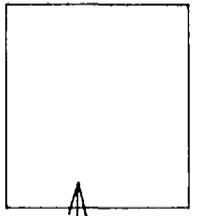
CLAIM No. 133' in P-545432  
275' in P-545433

DEPARTURE 1 + 00 S DIP OF HOLE -45° COMPLETED NOV. 30, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS ----- DEPTH 408.0'

NE. CLAIM POST



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY		
FROM	TO			FROM	TO				
		tuffs to porphyry							
		234.7' - 236.1' mafic tuff sharp conformable out contact							
		236.1' - 238.1' felsic tuff							
		238.1' - 240.9' mafic tuff							
		240.9' - 242.3' grey feldspar porphyry 15% white feldspar phenocrysts. Sharp conformable out contact.							
259.7	282.0	Mafic Tuff							
		Dark green, medium to fine-grained, poorly-bedded, soft, chloritic.							
		260.2' - 260.9' white quartz vein							
		268.6' - 268.9' white grey feldspar porphyry							
		270.0' - 271.4' grey feldspar porphyry							
		275.3' - 278.1' grey feldspar porphyry							

# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-3

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LATITUDE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 28, 1983

133' in P-545432  
CLAIM No. 275' in P-545433

DEPARTURE 1 + 00 S DIP OF HOLE -45° COMPLETED NOV. 30, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS ----- DEPTH 408.0'

NE. CLAIM POST



FOOTAGE FROM TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
			FROM	TO			
	279.8' - 280.1' white quartz vein						
	281.3' - 282.0' grey feldspar porphyry						
282.0	290.6						
	Felsic Tuff						
	Grey to grey-green, fine-grained, poorly to finely- bedded, sericitic.						
	Sharp out contact.						
290.6	308.3						
	Basalt						
	Black to black-green, medium-grained but finer-grained on contacts, 1-2% round amygdules filled with calcite-quartz.						
	Nil sulfides.						
	Sharp out contact, chilled, at 90° to C.A.						

# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-3

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LATITUDE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 28, 1983

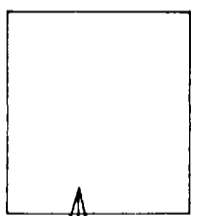
CLAIM No. 133' in P-545432  
275' in P-545433

DEPARTURE 1 + 00 S DIP OF HOLE -45° COMPLETED NOV. 30, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS ----- DEPTH 408.0'

NE. CLAIM POST



FOOTAGE FROM TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
			FROM	TO			
308.3 - 333.5	Interbedded Intermediate, Felsic Tuffs and Feldspar Porphyry						
	Mostly (75%) chloritic, green, fine to medium-grained intermediate tuff.						
	321.8' - 322.0' - grey feldspar porphyry (conformable)						
	322.6' - 322.8' - grey feldspar porphyry (conformable)						
	323.3' - 323.5' - grey feldspar porphyry (conformable)						
	324.1' - 325.1' - grey felsic tuff						
333.5 - 336.7	Feldspar Porphyry						
	Grey, 20% feldspar phenocrysts.						



# DIAMOND DRILL RECORD

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PROPERTY KAPLAN - WALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-3 PAGE 8/8

LATITUDE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 28, 1983

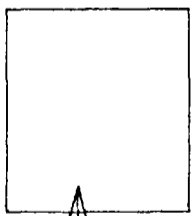
CLAIM No. 133' in P-545432  
275' in P-545433

DEPARTURE 1 + 00 S DIP OF HOLE -45° COMPLETED NOV. 30, 1983

DIRECTION AND DISTANCE FROM

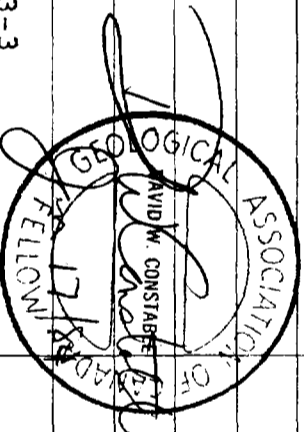
ELEVATION ----- DIP TESTS ----- DEPTH 408.0'

NE. CLAIM POST



FOOTAGE FROM TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
			FROM	TO			
354.6 404.0	Felsic Tuff						
	Grey to grey-green, fine-grained, well-bedded, sericitic with chloritic sections. Nil pyrite. 5-10% white-green feldspar phenocrysts are present in 1-2' sections.						
	370.6' - 374.1' Mafic tuff, dark green, chloritic						
	383.7' - 384.5' Mafic tuff, dark green, chloritic						
	385.5' - 391.0' Mafic tuff, dark green, chloritic						
	396.1' - 397.8' Intermediate tuff, green, chloritic						
	medium to fine-grained, at 397.6' $\frac{1}{4}$ " wide massive pyrite bed.						
404.0 406.6	Intermediate Tuff						
406.6 408.0	Mafic Tuff						

408.0' END OF HOLE AIM-83-3







# DIAMOND DRILL RECORD

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CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP

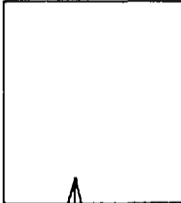
LATITUDE LINE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 24, 1983

DEPARTURE 2 + 00 N DIP OF HOLE -45° COMPLETED NOV. 27, 1983

ELEVATION ----- DIP TESTS NONE DEPTH 500.0'

D.D.H. No. AIM-83-4 PAGE 2/9

CLAIM No. P-545433  
 DIRECTION AND DISTANCE FROM  
NE. CLAIM POST



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
59.1	67.5	Intermediate Biotitic Tuff						
		Dark green to black, medium-grained, finely bedded with amphibole laths parallel to cleavage/bedding.						
		Pyrite is present in trace amounts.						
		Sharp out contact.						
67.5	124.5	Intermediate Tuff						
		Dark to medium green, fine-grained, sericitic, chloritic with fine bedding. Pyrite present parallel to bedding as traces. Interbedded chlorite -rich tuff sections with gradational contacts are infrequently observed.						
		Feldspar phenocrysts also occur as traces to 3% of the rock.						
		At 98.0' bedding is 60% to C.A.						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP

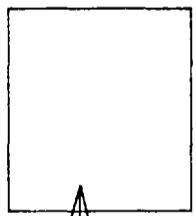
D.D.H. No. AIM-83-4

PAGE 3/9

LATITUDE LINE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 24, 1983

DEPARTURE 2 + 00 E DIP OF HOLE -45° COMPLETED NOV. 27, 1983

ELEVATION ----- DIP TESTS NONE DEPTH 500.0'



CLAIM No. P-545433  
 DIRECTION AND DISTANCE FROM  
NE, CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
		From 102.0' onwards quartz eyes are also present (< 1%).						
		Sharp out contact.						
		Dark green, medium-grained, finely to unbedded, chloritic.						
		Trace pyrite cubes						
		148.2' - 150.5' - sections of biotitic tuff.						
		Sharp conformable out contact.						
150.5	155.0	Intermediate Tuff						
		Medium to dark green, fine-grained, finely-bedded at						
		5 5° to C.A. Trace pyrite, chloritic, sericitic.						
		Gradational conformable out contact.						







# DIAMOND DRILL RECORD

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CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP

D.D.H. No. AIM-83-4 PAGE 7/9

LATITUDE LINE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 24, 1983

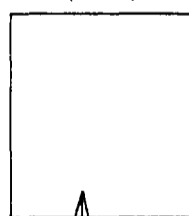
CLAIM No. P-545433

DEPARTURE 2 + 00 E DIP OF HOLE -45° COMPLETED NOV. 27, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS NONE DEPTH 500.0'

NE. CLAIM POST



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
262.3	310.6	Mafic Tuff						
		Dark green, medium to coarse-grained, poorly to indistinctly bedded. Traces of pyrite. Chloritic with biotitic books in places.						
		286.8' - 290.0' - intermediate tuff						
		292.3' - 293.2' - white quartz vein						
		Gradational conformable out contact.						
310.6	348.2	Intermediate Tuff						
		Medium-green, fine-grained, finely-bedded. Trace pyrite, sericitic with chloritic sections.						
348.2	371.5	Mafic Tuff						





# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP

D.D.H. No. AIM-83-4

PAGE 9/9

LATITUDE LINE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 24, 1983

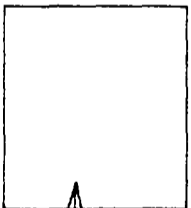
CLAIM No. P. 545433

DEPARTURE 2 + 00 E DIP OF HOLE -45° COMPLETED NOV. 27, 1983

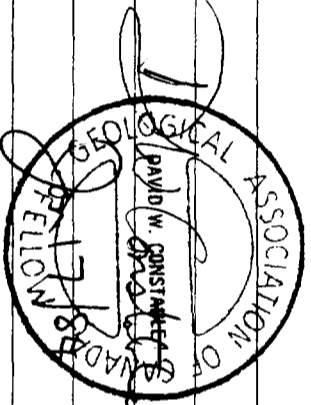
DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS NONE DEPTH 500.0'

NE. CLAIM POST



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY												
				FROM	TO														
452.0		Intermediate Tuff																	
		Medium to dark green, fine to medium-grained, finely-bedded, sericitic with chloritic sections and feldspar porphro-blasts (< 2%)																	
		489.0' - 492.0' - grey colored tuff, trace pyrite																	
		492.0' - 497.0' - grey-white, felsic tuff with clear quartz eyes. Traces of pyrite as blebs of pyrite. Subvolcanic porphyry unit.																	
		497.0' - 500.0' - Mafic tuff, chloritic. Bedding is at 85° to C.A.																	
		500.0' END OF HOLE AIM-83-4																	





# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - Mallard Township Property

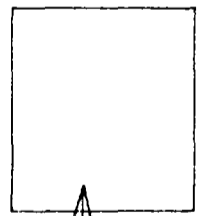
D.D.H. No. AIM-83-5

PAGE 2/4

LATITUDE Line 8 + 00 W BEARING OF HOLE Grid North (036°) STARTED DEC. 17, 1983

DEPARTURE 23 + 00 S DIP OF HOLE -45° COMPLETED DEC. 20, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 500.0'



CLAIM No. P-548437  
DIRECTION AND DISTANCE FROM  
NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
		By 93' unit becomes brecciated and hematized.						
		By 99' unit has become a hematized felsic tuff with feldspar phenocrysts (porphyroblasts?) comprising up to 10% of the rock.						
		132.2' - 132.8' - epidotized patch with quartz, pyrite and 5% chalcopyrite.						
		147.7' - 150.0' - Intermediate tuff.						
150.0	290.0	Diorite (Dumped Box?)						
		Salt and pepper colour, medium-grained, nil sulfides.						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-5

PAGE 3/4

LATITUDE LINE 8 + 00 W BEARING OF HOLE Grid North (0360°) STARTED DEC. 17, 1983

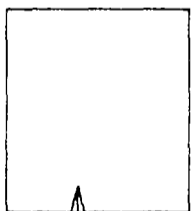
CLAIM No. P-548437

DEPARTURE 23 + 00 S DIP OF HOLE -45° COMPLETED DEC. 20, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS ----- DEPTH 500.0'

NE. CLAIM POST



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
		230.0' - 250.0' - finer-grained phase of diorite.						
		Sharp out contact.						
		Interbedded Intermediate and Felsic Tuff						
		Grey to black to medium-green, fine to medium-grained, finely-bedded at 58° to C.A. Nil to trace pyrite.						
		Intermediate Tuff						
310.0	410.0	Medium-green, medium to fine-grained, poorly to well-bedded. Nil to traces of pyrite in euhedral cubes. Chloritic. Minor feldspar porphyroblastic sections are present.						
		By 343.0' unit becomes spotted with dark chlorite clots (25%).						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. N&A IM-83-5

PAGE 4/4

LATITUDE LINE 8 + 00 W

BEARING OF HOLE

Grid North (036°)

STARTED

DEC. 17, 1983

CLAIM No. P-548437

DEPARTURE 23 + 00 S

DIP OF HOLE -45°

COMPLETED DEC. 20, 1983

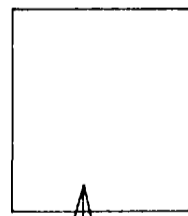
DIRECTION AND DISTANCE FROM

ELEVATION -----

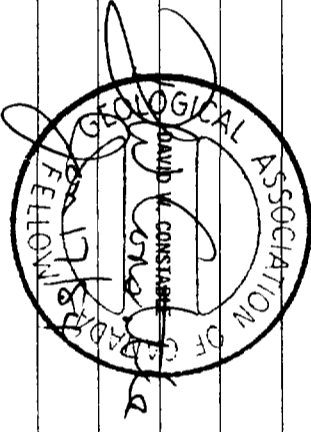
DIP TESTS

DEPTH 500.0'

NE. CLAIM POST



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY													
				FROM	TO															
410.0	500.0	Felsic Tuff																		
		Tan to pink to medium-green, fine-grained, finely-bedded at 71° to C.A. Hematized, sericitic. Box appears to have been emptied and core lost - approximately 2 feet lost. Trace pyrite.																		
		From 430.9' - 432.9' - white quartz vein with traces of pyrite.																		
		From 457.1' - 458.1' - hematized pyritized felsic tuff section with 1% pyrite (disseminated).																		
		500.0' - END OF HOLE AIM-83-5																		



# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

BQ CORE

D.D.H. No. AIM-83-6

PAGE 1/3

LATITUDE LINE R + 00 W BEARING OF HOLE GRID NORTH (036°)

STARTED DEC. 4, 1983

CLAIM No. P-548437

DEPARTURE 19 + 00 S DIP OF HOLE -45°

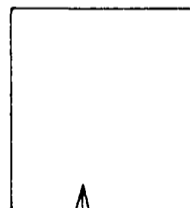
COMPLETED DEC. 12, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS -----

DEPTH 500.0'

NE. CLAIM POST



FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
0	39.0	CASING						
39.0	85.3	Mafic Tuff						
		Black to dark green, similar to the mylonitized unit in hole AIM-83-8 from 338.2' - 368.7' except this unit is more competent but blocky. Poorly-bedded, medium-grained brecciated in places with several inch long angular fragments seen throughout the unit. Nil to trace pyrite.						
		Sharp conformable out contact.						
85.3	328.3	Intermediate Tuff						
		Green to grey-green, fine to medium-grained, poorly to well-bedded at 36° to C.A. Nil to trace pyrite. Chloritic with						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

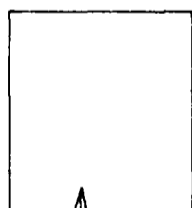
D.D.H. No. AIM-83-6

PAGE 2/3

LATITUDE LINE 8 + 00 W BEARING OF HOLE GRID NORTH (036°) STARTED DEC. 4, 1983

DEPARTURE 19 + 00 S DIP OF HOLE -45° COMPLETED DEC. 12, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 500.0'



CLAIM No. P-548437  
DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
		minor sericite.						
		By 194.0' bedding is at 53% to C.A.						
		From 245' onwards 2-3% of the core is < 1 cm-wide white quartz-carbonate veins (barren).						
		311.0' - 321.0' - medium-grained mafic tuff section. Sharp conformable out contact.						
328.3	455.4	Felsic Tuff						
		Grey to grey-green, fine-grained, finely-bedded, sericitic and trace to nil pyrite.						
		340.0' onwards rock is crackled with minute fractures and from 345.5' - to 396.0' rock is crackled and hematized.						
		from 396.0' onwards rock is still crackled but not hematized. from 418.0' - 421.1' hematized and crackled with quartz veining.						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPIAN - Mallard Township Property

LATITUDE LINE 8 + 00 W BEARING OF HOLE GRID NORTH (036°) STARTED DEC. 4, 1983

DEPARTURE 19 + 00 S DIP OF HOLE -45° COMPLETED DEC. 12, 1983

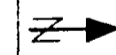
ELEVATION ----- DIP TESTS ----- DEPTH 500.0'

D.D.H. No. AIM-83-6 PAGE 3/3

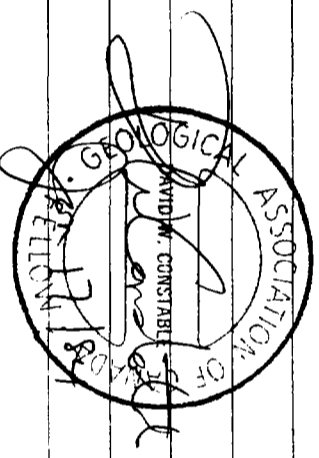
CLAIM No. P-548437

DIRECTION AND DISTANCE FROM

NE. CLAIM POST



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
		From 428.6' - 432.5' hematized and crackled with trace to 1% pyrite blebs.						
		from 441.3' - 448.0' hematized and crackled with 1% pyrite along fractures.						
		Sharp conformable out contact.						
455.4	500.0	Intermediate Tuff						
		Dark-green, fine to medium-grained, finely to poorly bedded.						
500.0'		END OF HOLE AIM-83-6						









# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

LATITUDE LINE 8 + 00 W BEARING OF HOLE GRID NORTH (036°) STARTED DEC. 13, 1983

DEPARTURE 15 + 00 S DIP OF HOLE -45° COMPLETED DEC. 16, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 550.0'

D.D.H. No. AIM-83-7

PAGE 3/6

CLAIM No. 135' in P. 548437  
415' in P. 548438

DIRECTION AND DISTANCE FROM  
NE. CLAIM POST



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
112.7	143.0	Intermediate Tuff						
		Medium green, fine to medium-grained, chloritic, massive, average hardness, well-bedded at 54° to C.A. Traces of coarse euhedral pyrite crystals present.						
		Gradational out contact.						
143.0	324.5	Mafic Tuff (Flow?)						
		Dark to medium green, medium-grained, no bedding, massive soft rock, trace to nil pyrite, chloritic & amphibolites comprise 15-25% of the rock, epidotized along fractures. At 226.0' 8" white quartz vein - no mineralization visible.						
		From 227.5' - 229.9' coarse cubes of pyrite and very minor chalcopyrite (2%)						





# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-8

PAGE 2/6

LATITUDE LINE 8 + 00 W

BEARING OF HOLE Grid North (036°)

STARTED Dec. 7, 1983

CLAIM No. P-548439

DEPARTURE 4 + 00 S

DIP OF HOLE -45°

COMPLETED Dec. 10, 1983

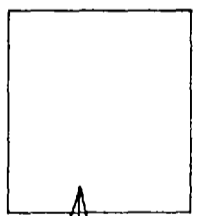
DIRECTION AND DISTANCE FROM

ELEVATION -----

DIP TESTS -----

DEPTH 650.0'

NE. CLAIM POST



FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
116.5	196.9	Mafic Tuff  Dark green, medium to fine-grained, poorly-bedded, chloritic and amphibolitic. Contains 5% irregular quartz- carbonate veinlets and veins. Trace to nil pyrite. Due to metamorphic mineral development unit has a spotted appearance.  At 169.7' white quartz vein with blebs of chalcopyrite.  Sharp conformable out contact.						
196.9	327.6	Intermediate Tuff  Grey to green-grey, fine-grained, finely-bedded, chloritic and sericitic, trace to nil pyrite. Some minor, sericitic, felsic tuff sections are contained in the unit.						

# DIAMOND DRILL RECORD

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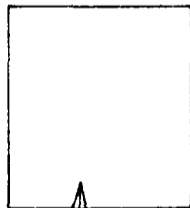
PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-8 PAGE 3/6

LATITUDE LINE 8 + 00 W BEARING OF HOLE Grid North (036°) STARTED Dec. 7, 1983

DEPARTURE 4 + 00 S DIP OF HOLE -45° COMPLETED Dec. 10, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 650.0'



CLAIM No. P-548439  
DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
		249.7' - 250.6' - fine-grained black unit - graphitic sediment 1-2% very finely disseminated pyrite.						
		Gradual conformable out contact.						
		Interbedded Intermediate Tuff and Graphitic Sediments						
		Alternating black and green, fine-grained, finely-bedded trace to 1% pyrite.						
		Sharp chilled contact.						
338.2	368.7	Mylonitized Mafic Tuff						
		Black to dark green, medium-grained, no bedding extensive development of metamorphic chlorite, micas,						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

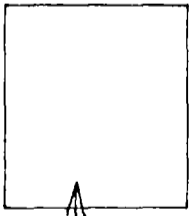
D.D.H. No. AIM-83-8

PAGE 4/6

LATITUDE LINE 8 + 00 W BEARING OF HOLE Grid North (036°) STARTED Dec. 7, 1983

DEPARTURE 4 + 00 S DIP OF HOLE -45° COMPLETED Dec. 10, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 650.0'



DIRECTION AND DISTANCE FROM  
NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
		amphiboles, feldspars and carbonates. Unit begins as massive and competent but after 3 feet becomes soft enough to break with your fingers.						
		sharp, chilled and apparently conformable out contact.						
		Interbedded Intermediate Tuff and Graphitic Sediments						
		Alternating black and green, fine-grained, finely bedded. By 378. feet, graphitic sediments end. Trace to nil pyrite.						
		Intermediate Tuff						
378.0	468.0	Green to grey-green, fine-grained, finely-bedded at 42° to						





# DIAMOND DRILL RECORD

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CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM -83-8 PAGE 6/6

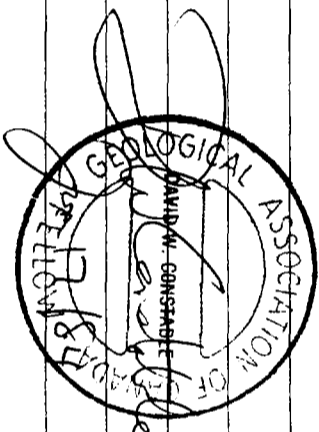
LATITUDE LINE 8 + 00 W BEARING OF HOLE Grid North (036°) STARTED Dec. 7, 1983

DEPARTURE 4 + 00 S DIP OF HOLE -45° COMPLETED Dec. 10, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 650.0'

CLAIM No. P-548439  
 DIRECTION AND DISTANCE FROM  
 NE. CLAIM POST

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY												
				FROM	TO														
582.3	650.0	Felsic Tuff																	
		Green to grey-green, fine-grained, finely-bedded at 75° to C.A. Trace to nil pyrite, sericitic with minor chlorite.																	
		At 593.7' - 2" zone of narrow sulfide (po-py) beds with very minor fuchsite development.																	
		From 630.3' - 633.9' zone of breccia filled with white quartz-carbonate and 1-2% pyrite and chalcopyrite.																	
		643.7' - 644.5' development of quartz eyes.																	
		650.0' END OF HOLE AIM-83-8																	



# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

BQ CORE

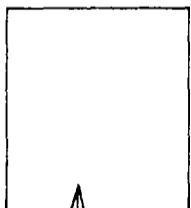
D.D.H. No. AIM-83-9

PAGE 1/5

LATITUDE LINE 0 + 20 E BEARING OF HOLE Grid North (036°) STARTED Dec. 14. 1983

DEPARTURE 14 + 00 S DIP OF HOLE -45° COMPLETED Dec. 15, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 400.0'



DIRECTION AND DISTANCE FROM CLAIM POST  
NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
0	14.0	CASING						
14.0	45.9	Diorite						
		Salt and pepper color, medium-grained rock with 60% feldspar, 40% ferro-magnesian. Out contact is chilled, black, fine-grained and intrusive. No sulfides present in the diorite.						
45.9	68.5	Chert						
		Grey-green, hard, fine-grained, nearly conchoidal fracture, finely bedded at 25° to C.A. Disseminated and beds of pyrite, pyrrhotite and very minor chalcopyrite present up to 2% of the unit. For the last 8-10 ft. the chert unit shows signs of 1-2"-wide intermediate tuff units.						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

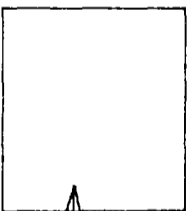
D.D.H. No. AIM-83-9

PAGE 2/5

LATITUDE LINE 0 + 20 E BEARING OF HOLE Grid North (036°) STARTED Dec. 14, 1983

DEPARTURE 14 + 00 S DIP OF HOLE -45° COMPLETED Dec. 15, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 400.0'



CLAIM No. P-548438  
DIRECTION AND DISTANCE FROM  
NE. CLAIM POST

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
68.5	113.0	Intermediate Tuff with Cherty Interbeds						
		Dark to medium-green, medium to fine-grained well to poorly bedded at 46° to C.A., trace to 1% sulfides as disseminates, euhedral crystals along beds and semi-massive beds. Chloritic, average hardness, ¼ inch - augens of grey quartz start to form in this unit but they are irregularly distributed. Augens are elongated sub-parallel to the bedding.						
113.0	140.4	Polymictic Conglomerate						
		Medium green, contains 40% stretched fragments of pink porphyry and green tufts. The fragments range from 2" - long down to microscopic. Rock matrix is chloritic. Sulfides are trace to nil.						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

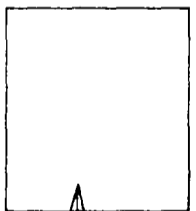
D.D.H. No. AIM-83-9

PAGE 3 / 5

LATITUDE LINE 0 + 20 E BEARING OF HOLE Grid North (036°) STARTED Dec. 14, 1983

DEPARTURE 14 + 00 S DIP OF HOLE -45° COMPLETED Dec. 15, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 400.0'



CLAIM No. P-548438  
DIRECTION AND DISTANCE FROM  
NE. CLAIM POST

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
				FROM	TO			
		The last 6 feet of the conglomerate gradually becomes an argillite that has been hematized to a brick-red colour with 1-2% disseminated pyrite.						
140.4	400.0	Intermediate Tuff						
		Medium to dark green, fine to medium-grained, well-bedded with trace pyrite present. Chloritic, soft to average hardness.						
		158.0' - 160.9' pink hematized section with 1-2% pyrite along fractures.						
		Quartz augens are infrequently present throughout as well as beds of pink porphyry (?) but instead of fragments only as beds. Some sections have more than the normal traces of sulfide.						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

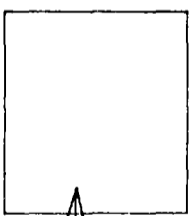
D.D.H. No. A1M-83-9

PAGE 4/5

LATITUDE LINE 0 + 20 E BEARING OF HOLE Grid North (036°) STARTED Dec. 14, 1983

DEPARTURE 14 + 00 S DIP OF HOLE -45° COMPLETED Dec. 15, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 400.0'



CLAIM No. P-548438  
DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
	175.8'	181.6'						
	1-2% pyrite and quartz veins.							
	This intermediate tuff shows definitely more sedimentary affinity than normal. Some sections contain sericite in significant (10%) quantities.							
	An S <sub>1</sub> has been developed parallel to S <sub>0</sub> with flat (20°) lying (?) east-west (?), lineations across the S <sub>1</sub> /S <sub>0</sub> plane.							
	229.8'	234.7'						
	rusty-pink, hematized section with 1-2% disseminated pyrite and kink banding at 70-90° to the C.A.							
	At 265.0' bedding is at 66° to C.A.							
	339.0'	361.9'						
	white to yellow rust color due to addition of quartz beds and sericite and 1-2%							

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY Kaplan - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-9

PAGE 5/5

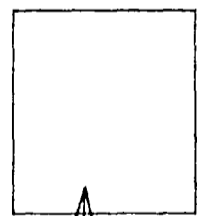
LATITUDE LINE 0 + 20 E BEARING OF HOLE Grid North (036°) STARTED Dec. 14, 1983

CLAIM No. P-548438

DEPARTURE 14 + 00 S DIP OF HOLE -45° COMPLETED Dec. 15, 1983

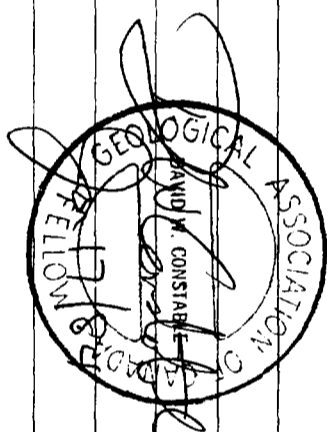
DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS ----- DEPTH 400.0'



NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
		pyrite - (hematized ?)						
		At 361.9' - 362.4' definite green argillite (sedimentary) bed.						
		From 370' onward to the end the rock becomes intermediate tuff with interbedded argillite beds.						
		400.0' END OF HOLE AIM-83-9						









# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY

D.D.H. No. AIM-83-10

PAGE 3 / 4

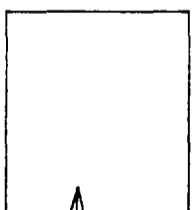
LATITUDE LINE 8 + 00 W BEARING OF HOLE Grid North (036°) STARTED Dec. 11, 1983

CLAIM No. P-548439

DEPARTURE 10 + 00 S DIP OF HOLE -45° COMPLETED Dec. 13, 1983

DIRECTION AND DISTANCE FROM

ELEVATION ----- DIP TESTS ----- DEPTH 592.1'



NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY	
FROM	TO			FROM	TO			
197.5	279.5	Argillite						
		Medium green, very fine-grained, finely-bedded.						
		competent and massive, nil to trace sulfides,						
		contains some minor intermediate tuff sections.						
		Conformable out contact,						
279.5	592.0	Interbedded Intermediate Tuff and Argillitic						
		Medium green, chloritic, finely-bedded and containing						
		nil to trace pyrite.						
		From 373.1' - 376.8' dark green, medium-grained mafic						
		tuff sections.						
		From 378.2' - 382.1' dark green, medium-grained mafic						
		tuff section.						

# DIAMOND DRILL RECORD

LOGGED BY D. Constable

CONSTABLE CONSULTING INC.

PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY


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PAGE 4/4

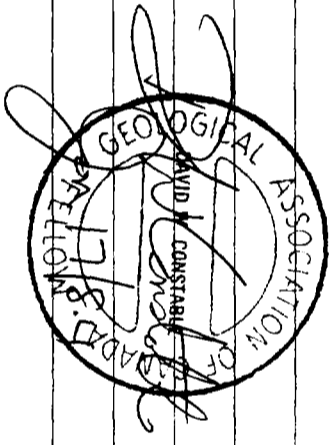
LATITUDE LINE 8 + 00 W BEARING OF HOLE Grid North (036°) STARTED Dec. 11, 1983

DEPARTURE 10 + 00 S DIP OF HOLE -45° COMPLETED Dec. 13, 1983

ELEVATION ----- DIP TESTS ----- DEPTH 592.0'

 CLAIM No. P-548439  
DIRECTION AND DISTANCE FROM  
NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY												
FROM	TO			FROM	TO														
		From 437.7' - 442.5' Dark green, medium-grained, mafic tuff section.																	
		506.3' - 511.0' Dark green, medium-grained spotted mafic tuff.																	
		592.0' END OF HOLE AIM -83-10																	





Name and Postal Address of Recorded Holder  
**ARTHUR E. KAPLAN % CONSTABLE CONSULTING INC** Inspector's Licence No. **A 43793**  
**10 KINGSTON COURT, SUDBURY, ONTARIO, P3A 1C9**

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed <b>5000</b>	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	P.	544305	105	P.	544313	105	P.	545433*	71
		544306	105		544314	105		545434	85
		544307	105		545427	105		545435	85
		544308	105		545428	105		545436	85
		544309	105		545429	105		545437	105
		544310	105		545430	105		545438	105
		544311	105		545431	85		545439	105
		544312	105		545432*	71		545440	105

All the work was performed on Mining Claim(s): **P. 545432\*, 545433\*, 548437\*, 548438\*, 548439\***

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

**Work Breakdown**

- P. 545432: # AIM-83-1: 500'
- " : # AIM-83-2: 400'
- " : # AIM-83-3: 110'
- P. 545433: # AIM-83-3: 298'
- " : # AIM-83-4: 500'
- P. 548437: # AIM-83-5: 500'
- " : # AIM-83-6: 500'
- " : # AIM-83-7: 125'
- P. 548438: # AIM-83-7: 425'
- " : # AIM-83-9: 400'
- P. 548439: # AIM-83-8: 650'
- " : # AIM-83-10: 592'

**Total 5000 feet.**

**BQ Core (>1")**  
**CONTRACTOR TRIANGLE Drill. Co. Ltd**  
 106 Fielding Rd.  
 Sudbury, ONTARIO  
**DAVID CONSTABLE**  
 10 KINGSTON CAT  
 SUDBURY, ONT  
 P3A 1C9

**RECORDED**  
 JAN 19 1984  
 Receipt No.           

**Dates: Nov 15/83 - Dec 22/83**

Date of Report: **Jan 16/84** Recorded Holder or Agent (Signature): **DW Constable**

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  
**CONSTABLE CONSULTING INC - DAVID W. CONSTABLE**

Date Certified: **Jan 16/84** Certified by (Signature): **DW Constable**

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	<b>RECEIVED</b> <b>JAN 19 1984</b> P.M. 10 11 12 1 2 3 4 5 6	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.			
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.	Work Sketch (as above) in duplicate
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil



The Mining Act

Name and Address of Recorded Holder, Prospector's Licence No.

Summary of Work Performance and Distribution of Credits

Table with columns: Total Work Days Cr. claimed (5000), Mining Claim Prefix/Number, Work Days Cr. for three different claim entries.

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

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

Large empty box for required information, containing handwritten text 'See page 1' and a 'RECEIVED' stamp dated JAN 19 1984.

Date of Report: Jan 16/84, Recorded, Holder or Agent (Signature): DW Constable

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: DAVID W. CONSTABLE, CONSTABLE CONSULTING INC, 10 KINGSTON CRT. SUDBURY P3A1C9. Date Certified: Jan 16/84, Certified by (Signature): DW Constable

Table of Information/Attachments Required by the Mining Recorder

Table with 4 columns: Type of Work, Specific information per type, Other information (Common to 2 or more types), Attachments. Rows include Manual Work, Shaft Sinking, Compressed air, Power Stripping, Diamond or other core drilling, Land Survey.

The Mining Act

Name and Postal Address of Recorded Holder: **ARTHUR E KAPLAN & CONSTABLE CONSULTING INC**  
**10 KINGSTON COURT SUDBURY ONT P3A1C9**

Prospector's Licence No.: **A 43793**

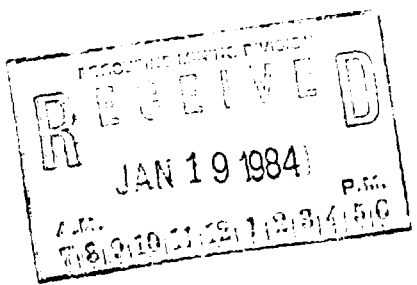
Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.
	Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.	
<b>5000</b>	<b>P</b>	<b>565299</b>	<b>85</b>									
		<b>565300</b>	<b>85</b>									
		<b>565301</b>	<b>85</b>									
		<b>Total</b>	<b>5000</b>									
		<b>51 Claims</b>										

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

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

See page 1



Date of Report: **Jan 16/84**  
 Recorded Holder or Agent (Signature): *[Signature]*

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: **DAVID CONSTABLE 10 KINGSTON COURT**  
**SUDBURY ONT P3A1C9**

Date Certified: **Jan 16/84**  
 Certified by (Signature): *[Signature]*

Table of Information/Attachments Required by the Mining Recorder

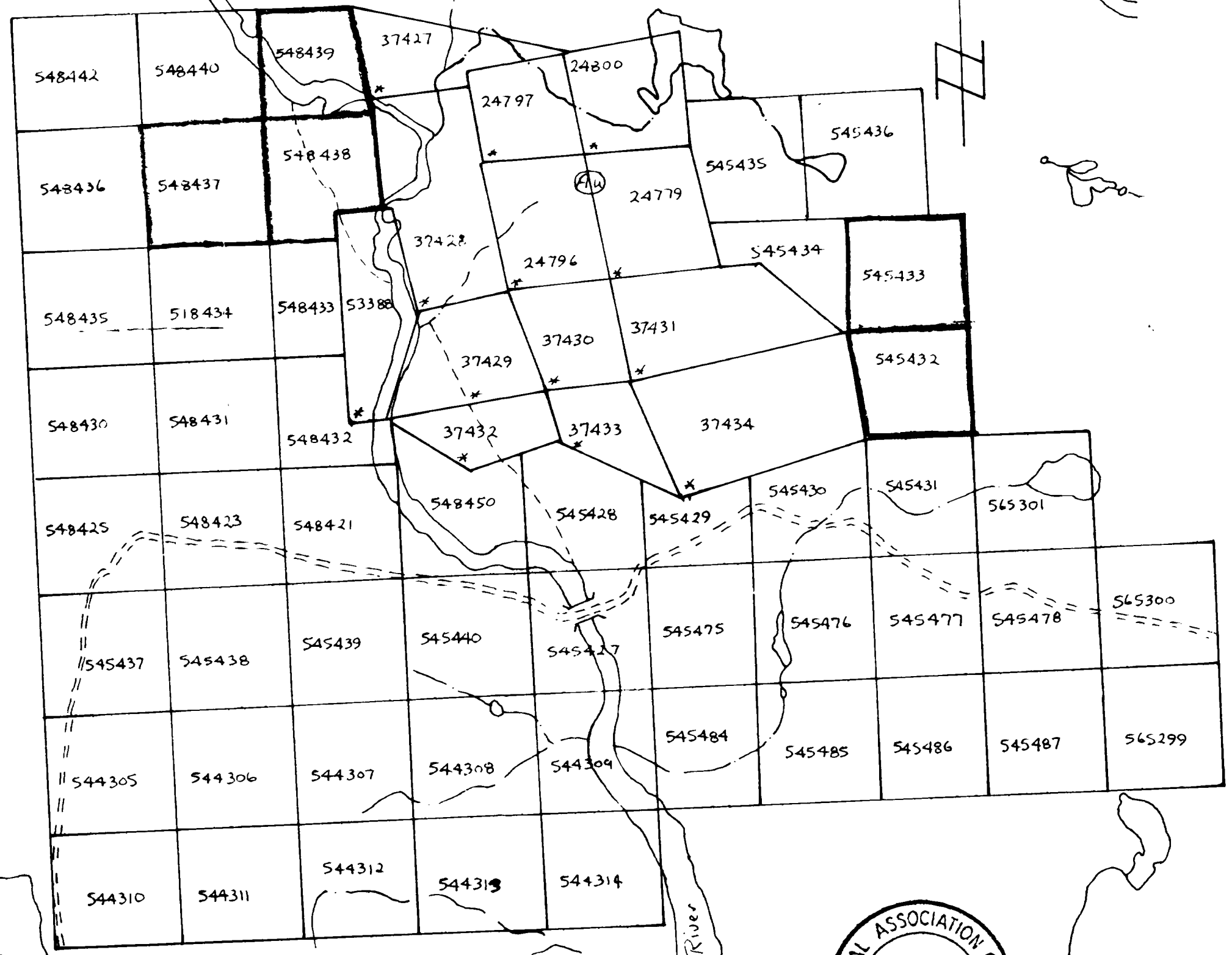
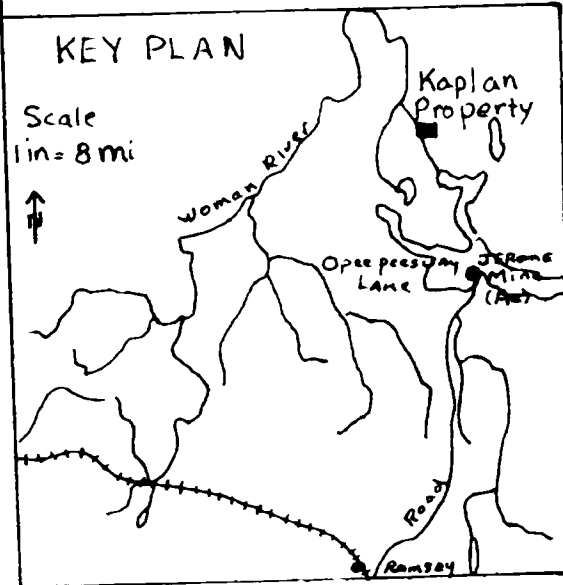
Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.			
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.	Work Sketch (as above) in duplicate
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil

ADELINE INTERNATIONAL MINES, LTD.

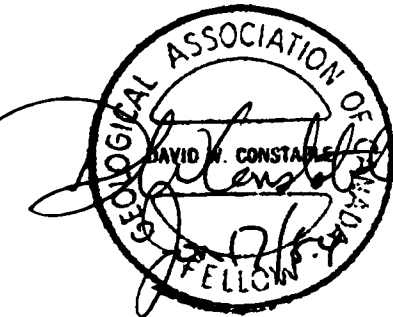
Mallard Township

Sudbury Mining  
Division

Scale: 1 inch = 1/4 mile



↓ To Ramsey

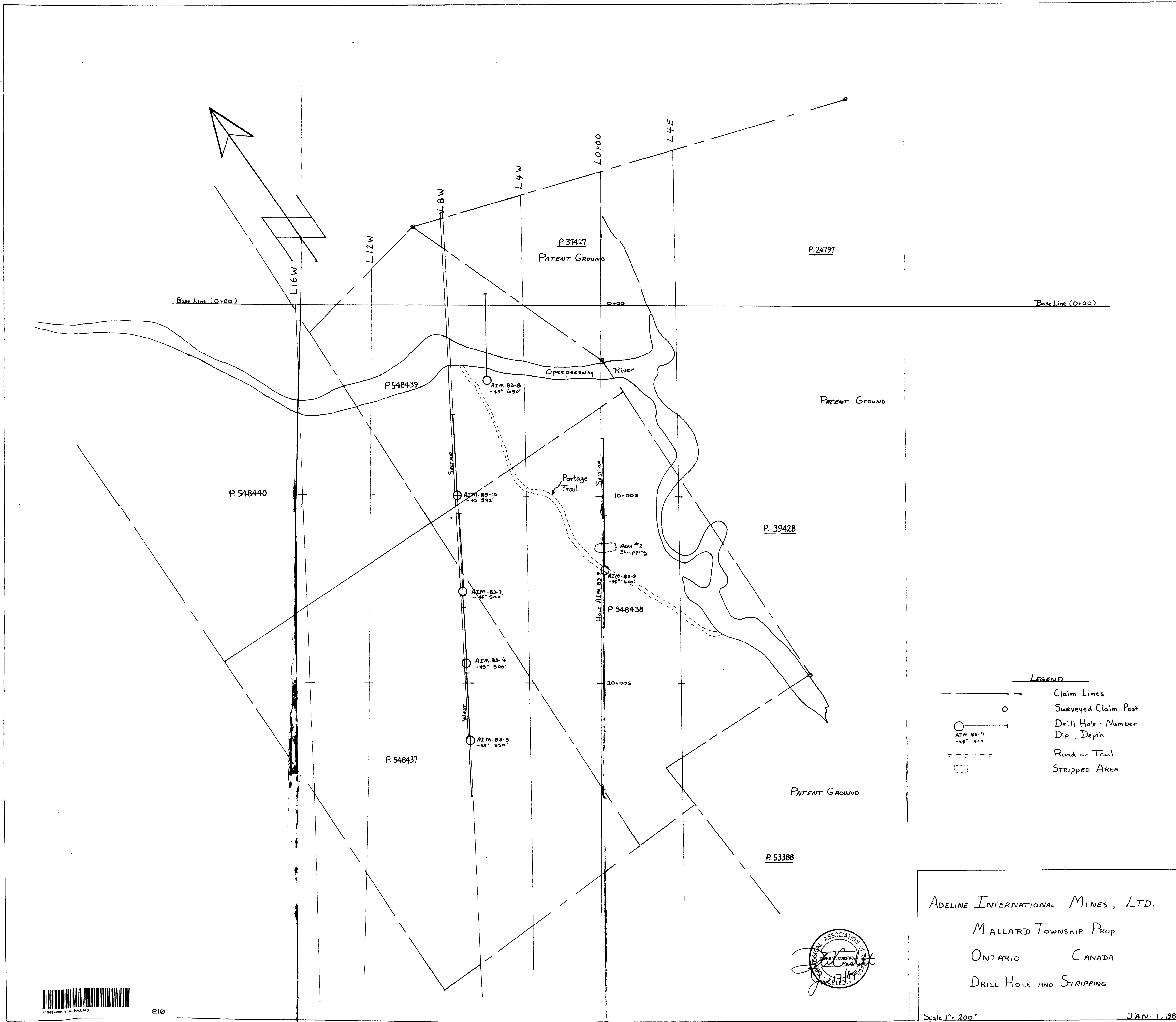


CONSTABLE CONSULTING INC.

\* Patent Claims

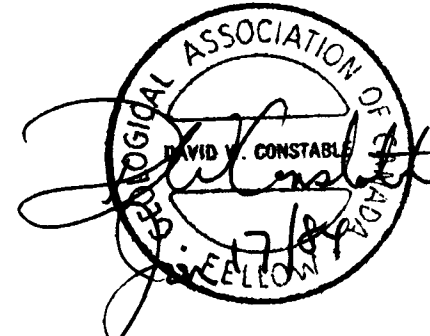


41089NW0021 18 MALLARD



**LEGEND**

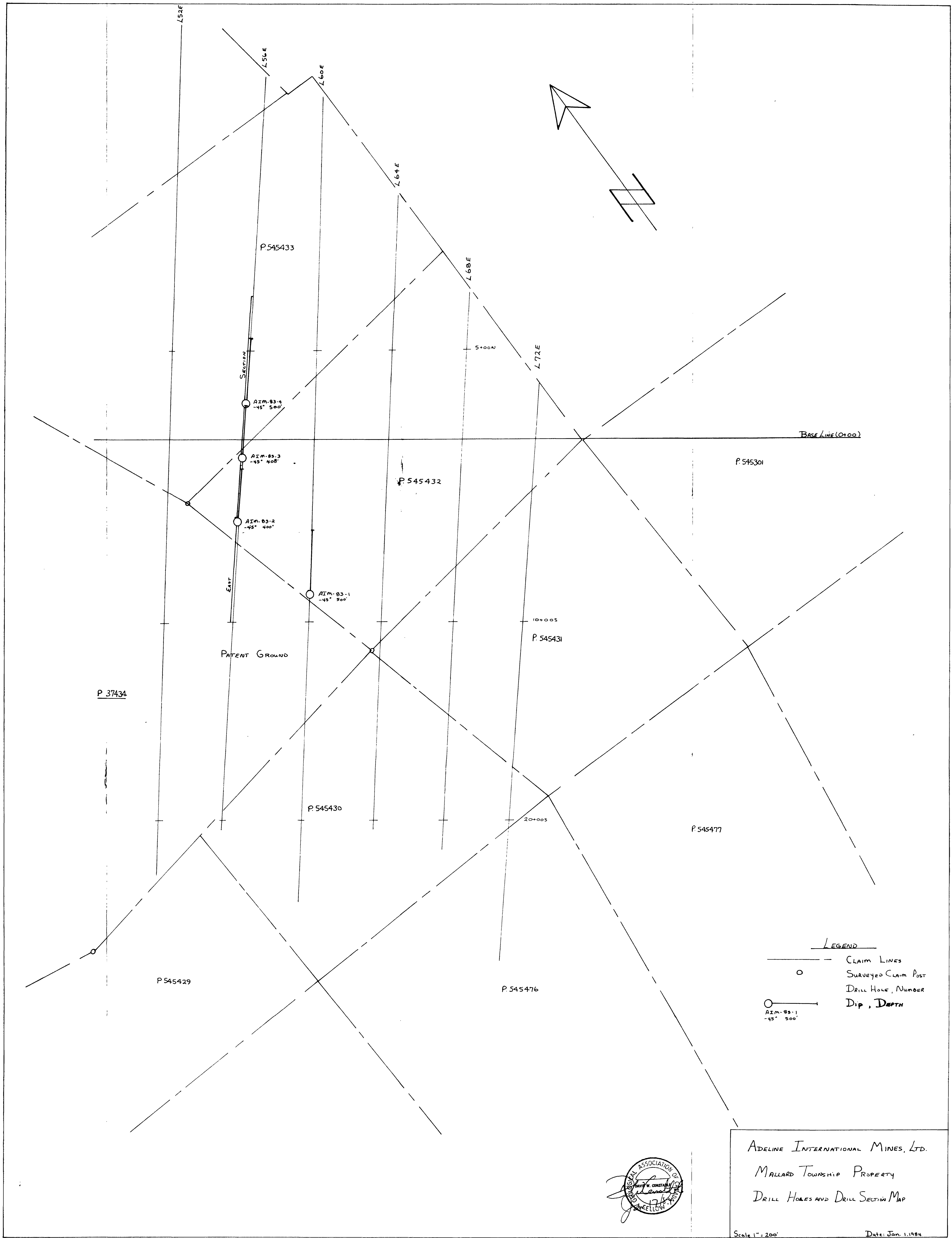
	Claim Lines
	Surveyed Claim Post
	Drill Hole - Number Dip, Depth
	Road or Trail
	STRIPPED AREA



ADELINE INTERNATIONAL MINES, LTD.  
 MALLARD TOWNSHIP PROP.  
 ONTARIO CANADA  
 DRILL HOLE AND STRIPPING







**LEGEND**  
 --- CLAIM LINES  
 O SURVEYED CLAIM POST  
 O DRILL HOLE, NUMBER  
 O Dip, DEPTH  
 AIM-83-1  
 -45° 500'

ADELINE INTERNATIONAL MINES, LTD.  
 MALLARD TOWNSHIP PROPERTY  
 DRILL HOLES AND DRILL SECTION MAP  
 Scale 1" = 200'  
 Date: Jan. 1, 1984

