

DIAMOND DRILLING



42A06NE0308 28 SHAW

010

TOWNSHIP: Shaw

REPORT No.: 28

WORK PERFORMED BY: Hollinger Argus Ltd.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 539616	SH 3-1-81	727.0	Jan/81	(1)
	SH 3-2-81 <i>2</i>	528.0 <i>1255'</i>	Feb/81	(1)

NOTES: (1) #30-81











PROPERTY Shaw #3 Group - Brown McDade OptionTownship Shaw Township

From	To	DESCRIPTION	From	To	Width				Description of Sample
		are gradational and/or irregular.							
		Below 123, the rocks are generally							
		lighter in colour and marginal in composition	120	123	3				A <sub>2</sub> - 5% strs.
		to dacite, although there are lighter	123	125	2				A <sub>2</sub> /C <sub>1</sub> - 5% strs.
		coloured, bleached sections in this zone as							
		well. The change to lighter coloured rocks							
		after 123 is gradational. Similarly, below							
		148.2, the rocks grade darker in colour							
		again, and are andesitic in composition.							
		Lighter coloured bleached sections							
		within the volcanic sequence are found at:							
		98.7-99.1; 100.7-101.9; 103.9-104.1; 109.5-							
		110.0; 114.7-117.6; 131.8-132.5; 144.1-144.5;							
		and 146-148.2.							
		All of the volcanics in the sequence are							
		amygdaloidal with scattered amygdules up to							
		7 mm in size filled with either quartz or							
		ankerite.							
		In the section 123-146, aside from being							
		lighter coloured, the rocks are coarsely							
		speckled with metacrysts of ankerite up to							
		3 mm in size. The ankerite occurs in sub-							
		ovoid blebs which are completely enveloped by							
		chlorite. Elsewhere in the sequence, the							









































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From	To	DESCRIPTION	From	To	Width	Description of Sample
		to the core axis.				
		The upper contact of the iron formation is irregular and nearly along the core, the lower contact is broken.				
		16.2-39.3 - Volcanics - initially dark green chloritic andesite which is bleached from 23.4-24.3, and grades lighter in colour below 34.8.				
		The andesitic portions are dark green, fine grained, chloritic and ankeritic. The rock is generally speckled with metacrysts(?) of ankerite, and contains scattered quartz and ankerite filled amygdules up to 5 mm in size. The andesite is moderately fractured with fine stringers of ankerite ± quartz and chlorite.				
		The section 23.4-24.3 is bleached and partly silicified to a dull grey and orange grey colour. The effect may be, in part, due to the presence of magnetite, since the bleached section is weakly magnetic. All the features of the andesite including amygdules and ankerite metacrysts are preserved in this section.				





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From	To	DESCRIPTION	From	To	Width	Description of Sample
		partly rusted with ankerite. As seen in the zone immediately above the iron formation, all of the features of the andesite are preserved, such that the dacite is most likely a bleached andesite.				
		The base of the andesite sequence is marginally lighter in colour approaching another unit of iron formation.				
		76.6-77.3 - Iron formation - a fine grained, poorly banded unit of magnetite, jasper and chert with lesser carbonate and traces of pyrite. Banding in the iron formation is at 70°, with contacts at: 80°/75°.				
		77.3-119.4 - Volcanics - a sequence of andesite and lighter coloured dacitic rocks similar to the unit 98.7-150 in DDH SH3-1-81.				
		Initially, the rock is a dark chloritic, amygdaloidal et al andesite as previous, which grades lighter in colour and becomes more dacitic below 86.4. The unit, from 86.4-110.6, is a medium to pale green and grey green dacite which is rather coarsely speckled with metacrysts of ankerite.				
		Ankerite metacrysts are enveloped by chlorite -				

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From	To	DESCRIPTION	From	To	Width	Description of Sample
		a feature identical to the section 123-146 in DDH SH3-1-81.				
		Below the dacitic section, the base of the volcanic sequence is a medium grey to grey green dacite which is bleached to a pale buff, grey green at the lower contact, from 119.1-119.4.	95	100	5	C <sub>1</sub> A <sub>2</sub> - minor strcs.
		Throughout the overall zone, the volcanics are fine grained, moderately altered with ankerite, chlorite, poorly veined, sparsely mineralized and amygdaloidal. There is a minor amount of ankerite rust along a few open fractures in the sequence.				
		119.4-139.3 - Iron formation with several sections of intercalated volcanics - the percentage of volcanic material in this part of the sequence being much greater than that in DDH SH3-1-81.				
		The upper contact of the sequence is along fine grained, weakly banded, granular, andesite tuff - the bands of magnetite first appearing below 120.3. From 120.3-121.3, the iron formation is closely banded with magnetite, chert, carbonate and carbonated dacite(?).				

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From	To	DESCRIPTION	From	To	Width					Description of Sample
		The core is sparsely mineralized with pyrite marginal to some of the cherty bands.								
		The upper contact of the zone is at 75°, with banding at 70-75° to the core axis.								
		Below the magnetite sequence, there is a narrow unit of pale green to grey green dacite tuff from 121.3-122.2, followed by a rusty ankeritic section from 122.3-123.	120	122	2					E+C <sub>1</sub> - 5% strs - 15% mgt, minor py
		Parts of the ankeritic zone are weakly banded at 75° - none of this section is magnetic.	122	125	3					E+C <sub>1</sub> - 7% " - 8% mgt, minor py
		From 123-125.6, the iron formation is well banded with units of chert, magnetite, carbonate, carbonated dacite and chlorite rich carbonate/carbonated andesite.	125	127	2					E - 50% " - 5% mgt, 3% py
		The upper contact of this zone is strongly rusted with ankerite, plus there is some rusty ankeritic fracturing at 125. The core is poorly veined with stringers of quartz and quartz-ankerite, and is sparsely mineralized with pyrite. The base of the unit, particularly from 125-125.4, has a strong chlorite component.	127	129	2					C <sub>1</sub> - minor strs.
		From 125.6-126.9, the iron formation is strongly veined/brecciated with chert/silica.	129	130	1					E - minor strs - 5% mgt, tr.py
			130	135	5					C <sub>1</sub> - 5% strs.
			135	137	2					E+C <sub>1</sub> - 15% strs. - 7% mgt, minor py
			137	140	3					E - 15% strs. - 20% mgt, 5% py









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From	To	DESCRIPTION	From	To	Width	Description of Sample
		The dacite is fine grained with occasional small fragments up to 5 mm in size. The core varies from medium to pale grey green, grey and yellowish grey green in colour and is moderately altered with ankerite, chlorite, sericite, moderately veined, fractured, and sparsely mineralized.	202	205	3	C <sub>1</sub> - 10% strs. - minor tour.?
		Sections of lighter coloured bleached dacite are often found to contain fine, scattered, hard, black, acicular crystals of either tourmaline or amphibole.	225	230	5	C <sub>1</sub> - minor strs. - w.tour.
		In general the dacite is blocky in nature, particularly in the section 196-220.	230	233	3	C <sub>1</sub> - minor " - w.tour.
		The lower contact of the dacite is broken, irregular and partly chloritized from 231.3-232.7.	233	235	2	E - 15% strs. - 35% mgt, minor py
			235	237	2	E - 30% " - 20% mgt, tr.py
			237	240	3	E - 20% " - 55% mgt, tr.py
			240	243	3	E - 10% " - 30% mgt, tr.py
		232.7-247.3 - Iron formation - a brick red to orange red, black and plum coloured unit which has a very high magnetite component.	243	246	3	Lost Core
			246	248	2	E+C <sub>1</sub> - 20% strs. - 7% mgt.
		In the previous drill hole (SH3-1-81) this unit was placed at the top of the ensuing andesitic volcanics due to its calcite component - what carbonate is present in this				



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From	To	DESCRIPTION	From	To	Width	Description of Sample
		Unlike the previous drill hole, the andesite, and the overlying iron formation are not calcitic, and bleached sections of dacite(?) are present. For the most part, the upper half of this sequence, to 283, is similar to the andesite at the top of the hole - i.e. the rocks are fine grained, chloritic, ankeritic, locally bleached, speckled with ankerite, poorly veined, sparsely mineralized and contain scattered quartz and quartz-ankerite filled amygdules.				
		Below 283, the rocks become more uniform in appearance with both calcite and ankerite being present. The andesite in this section is fine grained, dark green, and chloritic with scattered calcite and quartz-calcite amygdules to 1 cm in size. The core is also locally speckled with both calcite and ankerite.				
		Around 305, the andesite contains scattered carbonate, volcanic and cherty fragments up to 5 cm in size - fragments becoming more frequent and better defined towards the base of the unit at 316.4.				
			263.5	266.5	3	A <sub>2</sub> - 20% strs. (pk).





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From	To	DESCRIPTION	From	To	Width	Description of Sample
		cherty band within the andesite that is weakly magnetic - potential iron formation(?)				
		Contacts of the unit are at: 50°/40°.	347	350	3	E - minor strs - 15% mgt, tr.py
		The first recognizable sequence of iron formation is encountered from 347.8-351.6.	350	352	2	E - minor strs. - 10% mgt.
		The rock varies from plum to greyish purple in colour, and is weakly banded with units of chert, carbonate, magnetite and carbonated volcanics. Most of the carbonate in the sequence is ankerite, although some calcite is present.				
		The core is banded at 65-70°, with contacts of the zone being at: 67°/40°.	375	377	2	A <sub>2</sub> - 5% strs.
		From 377.3-383.1, there is a second unit of iron formation which is fairly well banded at 65-70° to the core axis, with contacts at: 62°/73°.	377	379	2	E - 10% strs. - minor mgt, 5% po py
			379	381	2	E - 15% " - 5% mgt, 7% po py
			381	383	2	E - 20% " - 40% mgt, minor py
			383	385	2	A <sub>2</sub> - no strs.
		The upper part of this zone of iron formation, from 377.3-381.7, contains units of chert, carbonate, carbonated volcanics and magnetite with scattered amounts of pyrrhotite and pyrite. The base of the zone is strongly magnetic with interbanded magnetite, chert and carbonate from 381.7-382.3, and	420	425	5	A <sub>2</sub> - 7% strs.

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From	To	DESCRIPTION	From	To	Width	Description of Sample
		jasper, magnetite from 382.3-383.1.				
		This unit of iron formation appears to mark a change in the chemical and physical characteristics of the andesite, in that the upper sequence of rocks is fine grained, chloritic, amygdaloidal, and calcitic with subordinate ankerite, while below the iron formation the andesite is fine grained, chloritic, coarsely speckled with carbonate, and is ankeritic with subordinate calcite.				
		The carbonate component within the iron formation is a mixture of both ankerite and calcite.				
		The lower contact of the andesite sequence is along a unit of iron formation - the andesite having graded lighter in colour with an increased ankerite content after 440.				
		The lower contact is sharp at 80°.				
444.8	528	Dacitic Volcanics with a unit of iron formation along the upper contact from 444.8-461.6.				
		The iron formation is included with the dacitic sequence since most of the inter-				



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From	To	DESCRIPTION	From	To	Width				Description of Sample
		calated volcanic material, particularly below 457, is dacitic in composition.							
		The dacitic rocks, below 461.6 are fine grained, and vary in colour from medium to dark grey and grey green. The core is moderately altered with ankerite and chlorite, is moderately veined, fractured, and sparsely mineralized.	445	447	2				E - minor strcs - 40% mgt, minor py
		The iron formation is a well banded sequence of rocks containing both oxides and sulphides. Banding is fairly consistent throughout, at 75-85° to the core axis.	447	449	2				E - 5% strcs. - 15% mgt, 5% py
			449	451	2				E - 20% " - 20% mgt, minor py
			451	453	2				E - minor " - minor mgt, 15% py, tr.po
		The upper unit, from 444.8-446.2, consists of alternating units of jasper and magnetite with minor chert and carbonate.	453	455	2				E - minor strcs. - 20% po py
			455	457	2				E - " " - 20% py, tr.po.
			457	460	3				C <sub>1</sub> +E - minor strcs. - 7% py
		This section grades downward into a zone of banded magnetite, chert, and carbonate, with minor jasper, and carbonated volcanics.	460	462	2				E - minor strcs. - 25% py
			462	465	3				C <sub>1</sub> - 5% strcs.
		From 447-450.7, the iron formation sequence is a banded mixture of chert, carbonate, carbonated volcanics and magnetite, with a moderate amount of pyrite being present.							
		Individual bands of magnetite are much narrower than previous, and the intercalated							

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From	To	DESCRIPTION	From	To	Width	Description of Sample
		volcanic material includes both chlorite rich (andesitic?) and chlorite lean (dacitic?) rocks.				
		From 450.7-457, very little magnetite is present in a sequence of chert, carbonate and carbonated volcanics, which are moderately to well mineralized with pyrite and pyrrhotite. Some of the pyrite occurs in bands, while the pyrrhotite generally appears to be secondary.				
		Below 457, there is a narrow section (to 459.9), of carbonated and cherty dacitic rocks (tuffs?), with scattered bands of chert and pyrite. The dacite varies from medium to dark grey and pale brownish grey in colour, is fine grained, ankeritic, locally thinly banded, unveined and sparsely mineralized. None of the rocks in this section were found to be magnetic.				
		The base of the iron formation sequence, from 459.9-461.6, consists of narrow beds of chert, pyrite and pyritic, carbonated volcanics. Most of the volcanic units are dark and chlorite rich. Cleavages along some slip/bedding planes in the chloritic sections, are crumpled and/or kinked.				

# DIAMOND DRILL REPORT

Hole No. SH3-2-81

20.

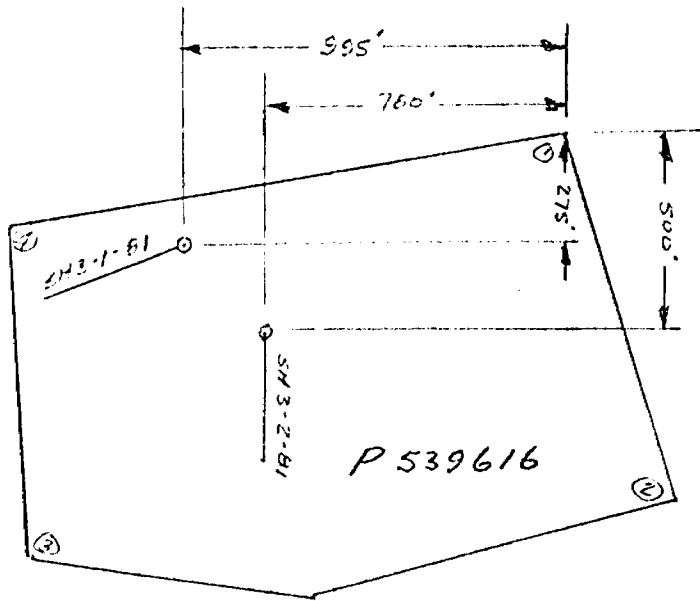
PROPERTY Shaw #3 Group - Brown McDade Option

Township Shaw Township

From	To	DESCRIPTION	From	To	Width	Description of Sample
		The lower contact of the iron formation is sharp, at 83°.				
		Below the iron formation, the dacite exhibits similar crumpled and/or kinked cleavage patterns, usually adjacent to accessory veining.	475	480	5	C <sub>1</sub> - 15% strs.
		Locally, the rocks are chloritized and appear to be marginal in composition to andesite - particularly below 504, where there is increased fracturing with chlorite.	510	515	5	C <sub>1</sub> - 10% strs. - minor py, fract.
		Near the end of the hole, after 519, there is a weak calcite component in the dacite, and the rocks are amygdaloidal with scattered calcite filled amygdules to 8 mm.	525	528	3	C <sub>1</sub> - no strs.
		The base of the dacite sequence is moderately veined with stringers of quartz-ankerite, and quartz-ankerite-calcite. The core is also locally speckled with ankerite and sparsely mineralized with pyrite ± rare splashes of chalcopyrite.				
528'		END OF HOLE				

*Dave R. Alexander*

Plan of SH3-1-B1 & SH3-2-B1



SHAW TOWNSHIP  
Scale 1" = 500'

SH 3-1-B1

START JAN 27/01

FINISH FEB 1/01

LENGTH 727'

DIP -45°

Az 250°

DIA OF CORE 1.44" BQ

CONTRACTOR BRADLEY BROS TIMMINS ONT

SH 3-2-B1

START FEB 2/01

FINISH FEB 6/01

LENGTH 528'

DIP -46°

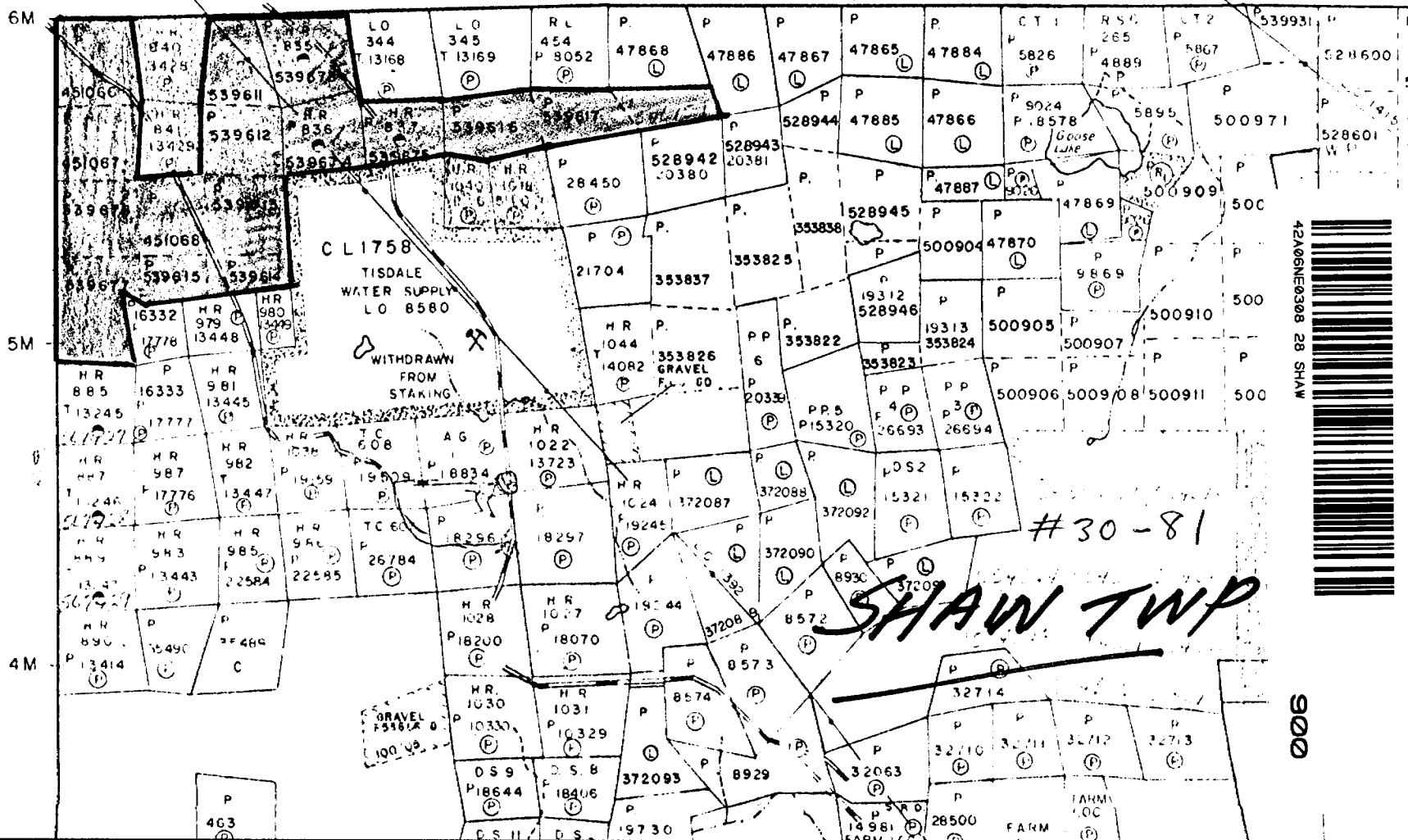
Az 180°

DIA OF CORE 1.44" BQ

HOLLINGER ARGUS LIMITED  
TIMMINS, ONTARIO

HOLLINGER ARCUS LTD.

Whitney Twp. M. 319



O. M. 272

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