010

DIAMOND DRILLING

Township: NICOLET

Report No:

WORK PERFORMED FOR: TRIBAG MINING CO. LTD.

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER [ ]

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
SSM 35127	V-32	1000'	Jul/63	
	V-43	867.2'	Aug/63	
SSM 35136	V-35	1023.9'	Jul/63	
	V-50	889.4'	Aug/63	
	V-54	856.6'	Sep.63	
	V-57	913.4'	Sep/63	
	V-59	1045'	No Date	
SSM 61137	X-1	7'	No Date	
TOTAL :	8 DH	6602.5'		

NOTES:

NOTE: FOR ADDITIONAL INFORMATION ON OTHER DD LOGS (FOR TRIBAG MNG Co LTD.) IN THE SAME AREA, SEE NICOLET-0013.

SSM 61137

DIAMOND DRILL LOG

PROPERTY: Tribag Mining Co. Limited

HOLE NUMBER: X-1

LOCATION: Batchawana Bay, Ontario

Latitude: 7.00S	Dip: 50°		DIP TESTS		
Departure: 28.00E	Depth: 7.0'	Footage	Reading	Corrected	
Elevation:	Commenced:		S 30° E		
Azimuth:	Finished:	Logged by:			

SAMPLE NUMBER	DESCRIPTION		
	0.0 Casing		
	7.0 End of Hole		
	Abandoned in overburden.		

SSM 35127

DIAMOND DRILL LOG

PROPERTY: Tribag Mining Co. Limited

HOLE NUMBER: V-32

LOCATION: Batchawana Bay, Ontario

DIP TESTS

				Footage	Reading	Corrected
Latitude:	300N	Dip:	90°	99°	88°00	87°15'
Departure:	300E	Depth:	1000.0'			
Elevation:	1013.54	Commenced:	July 12, 1963			
Azimuth:		Finished:	July 21, 1963	Logged by:	M. Blecha	

SAMPLE NUMBER	DESCRIPTION
	0.0 Casing 5.0
	5.0 Granite. Pink, medium grained, relatively fresh and massive, 35% quartz eyes; 5% chloritized mafics; 50-60% red feldspar. Cut by 1-2% quartz stringers. Local changes of colour to greyish, but generally fairly uniform. 35.0 - Highly chloritized and fractured zone; predominately fine grained basic material, with 30% feldspathic fragments; minor epidote; 1-2% pyrite. Note carbonate-filled fracture at 75° c.n. Abrupt contacts. 37.0 - Granite, as at 5.0'. Note greenish, medium altered, slightly carbonatized zone, with patches of snow-white, soft, alteration material from 55.4-57.0. 63.5 - Medium altered granite, brownish due to sericitization and chloritization; fine feldspar; trace disseminated pyrite and chalcopyrite. 68.0 - Granite, pink, fresh and massive, as at 5.0'. 77.0 - Slightly altered granite, as at 67.5 with 1% pyrite; trace chalcopyrite. Note 0.6 pure white quartz vein at 83.0. 85.0 - Granite, pink, fresh and massive, as at 5.0. Note minor kaolinization of feldspar at 100.0-100.5; minor disseminated chalcopyrite at 101.5. 2" trap dykelet at 101.5. Note bluish, molybdenite-stained quartz carbonate stringers (1/4") at 80° c.n. from 126.0-127.0. 155.0 - Granite, medium-highly altered, greenish, soft, sericitized. 2-3% quartz stringers. 165.0 - Granite, pink, fresh and massive. 171.0
	171.0 Amygdaloidal volcanics (dyke?). Dark green, fine grained, slightly chloritized, massive, with 3% widely scattered, red and pale grey rounded amygdules. Upper contact appears chilled at 50° c.n., lower sharp at 60° c.n. (not chilled). 179.4 - Red quartz felsophyre. 15% quartz phenocrysts (1-3 mm.) rounded; 2-3% epidote in a very fine grained, red matrix. Relatively massive and fresh. Lower contact sharp at 45° c.n. 188.0 - Amygdaloidal volcanics, as before. Note minor shattering with associated minor hematite stringers at 190.0-192.0. Note the above brecciation from 171.0 to 200.0 is identical with that encountered in V-31, V-34 and V-11, and the correlation is unquestionable. 200.0
	200.0 Granite, pink, fresh and massive as before. 1% quartz stringers.

	DESCRIPTION
	Trace of pyrite. Note a 0.8' dykelet at 50° c.n. at 233.2. The dykelet is similar to the chilled margin of the amygdaloidal dyke in the west part of Breton zone. Aphanitic, grey, soft, highly chloritized.
	223.0
235.0	Granite, highly altered, chloritized and sericitized, becoming relatively fresh in central part of zone. Note 3" trap dykelet at 239.4. Note quartz-rich zone from 246.2-247.0.
	248.5
248.5	Highly brecciated zone. Predominately highly chloritized, fine grained, basic fragments 50-55%; chloritized granitic fragments 20%; quartz carbonate 25-30%; 10% chloritized diabase; 1% chalcopyrite; 2-3% pyrite in widely scattered blobs, associated with quartz. Trace MoS_2.
	264.0 - Medium brecciated zone. Highly sericitized greenish-yellow granite 80%; quartz 20%.
	265.5
265.5	Granite. Relatively massive, slightly chloritized, no quartz carbonate.
	281.5
281.5	Mineralized zone. 5-6% chalcopyrite; 2-3% pyrite in a quartz-rich brecciated zone; quartz 50%; granitic fragments 20%; (chloritized) fine grained basic 10%.
	283.0
283.0	Granite - Pink, fresh and massive.
	284.5
284.5	Mineralized zone. 2-3% pyrite; 1-2% chalcopyrite; trace sphalerite; quartz 60%.
	287.5
287.5	Felsite dyke - pink, fresh, massive, fine grained.
	289.0
289.0	Medium brecciated zone. Medium alteration; relatively fresh granite 50%; chloritized basic material 20%; quartz carbonate 20%; trace pyrite and chalcopyrite.
	291.5
291.5	Brecciated granite. Low brecciation, low alteration; 5-10% quartz, cut by a 0.7' highly chloritized, medium-grained diabase from 297.5-297.2.
	302.7
302.7	Medium brecciated zone. Low altered granitic fragments and masses 60%. Highly chloritized, medium-grained, diabasic material 20-25%; volcanic and acidic 5%; quartz carbonate 15%; minor epidotization.
	315.0
315.0	Granite - massive, slightly chloritized, with a highly chloritized fractured zone from 318.0-319.5; slightly bleached from 320.0.on.
	325.0 - Granite, pink, fresh and massive.
	338.0 - Granite, bleached, slightly chloritized.
	341.0 - Granite, chloritization increases to medium-high.
	345.0 - Granite, pink, fresh, massive. Minor bleached phases. Note dark grey, aphanitic, medium chloritized, silicified, fractured, trap dykelets at 356.5-357.1 and 361.0-362.5. Note medium sericitized zone, 367.0-368.5.

	DESCRIPTION
	377.5 - Mineralized Zone. 2-3% chalcopyrite, associated with quartz stringers and disseminated in slightly chloritized granite. 378.5 - Granite - relatively fresh, pink, and massive. 408.0 - Granite - slightly bleached and chloritized. 2-3% quartz stringers. 440.0 - Granite - pink, fresh and massive. Minor local chloritization. Bleached near end. 3Ø4% quartz stringers; trace pyrite. 461.8
461.8	Diabase(?) Fine-medium grained, medium chloritized, massive, but by a 3" quartz stringer and by hair-thin chalcopyrite-filled fractures. Lasttwo feet highly chloritized with development of 3-5% rounded black chlorite phenocrysts(?), resembling certain amygdules in some phases of the western amygdaloidal dyke. Lower contact brecciated, quartz-rich, and stained slightly blue by molybdenite. 2% disseminated pyrite. 468.3
468.3	Red felsophyre. Massive and fresh. 20-30% feldspar, quartz and chloritized pseudophenocrysts (1-3 mm.) in a fine grained, pink matrix; uniform. 1% disseminated pyrite. Lower contact sharp at 60° c.n. Note a 4" basic inclusion above lower contact. 491.6
491.6	Volcanics? Fine grained, dark green, massive, uniform, medium chloritized. Highly chloritized and bleached (chilled) near lower contact. Note the above succession from 466.8 to 497.5 resembles that encountered at 171.0 to 200.0. No amygdules are observable, however. 497.5
497.5	Granite - extreme earthy alteration; complete disintegration of rock, accompanied by swelling. 502.5
502.5	Granite - relatively,pink, fresh and massive. 517.5
517.5	Medium brecciated zone. Medium altered (earthy alteration and chloritization) of granite (60%); quartz 40%. 522.5
522.5	Granite - relatively fresh, pink and massive. 1-2% quartz stringers. Note a 2.0' red felsophyre dykelet at 585.5. 624.0 - Granite, as above, becoming slightly chloritized and epidotized. 630.0
630.0	Felsite-Rhyolite? Pale, pinkish brown, aphanitic, very hard, with 5% chlorite patches or pseudophenocrysts. Gradational contacts. 631.8 - Granite - pink and fresh. 636.5 - Felsite-rhyolite, as at 630.0. Becoming distinctly foliated at 50° c.n. 5-7% quartz. 641.5
641.5	Medium brecciated zone. High alteration; earthy and sericitized granitic fragments and masses 50%; quartz carbonate 50%; 1-2% pyrite; trace chalcopyrite, and MoS_2. 646.6 - Foliated granite, relatively fresh. Foliation at 40° c.n. 2-3% quartz; trace pyrite.

DESCRIPTION

651.0

651.0 Highly brecciated zone. Mineralized with 3-4% chalcopyrite; 1-2% pyrite; quartz 50%; medium altered (earthy) granite 25%; highly chloritized diabasic fragments 5%.

655.4

655.4 Granite - pink, relatively fresh, locally slightly foliated at 40° c.n.

660.5

660.5 Highly brecciated zone. Medium-high earthy alteration. Quartz 30%; granite 70%. 1% pyrite; trace MoS_2.

664.0

664.0 Granite, as at 655.4.

667.0

667.0 Brecciated granite. Low alteration. Relatively massive sections (up to 2 ft.), interrupted by quartz-rich brecciated zones associated with increased alteration and minor mineralization. Total quartz 15%. Note few bluish molybdenite-stained quartz stringers.

686.0

686.0 Granite - pink; low alteration; relatively massive. Minor brecciated zones. Quartz 2-3%.

698.0

698.0 Brecciated Granite. Low alteration. Relatively massive granite sections, interrupted by quartz-rich brecciated zone. Total quartz 10%.

706.0 - As above, but alteration increases to low-medium (chloritization)

711.0

711.0 Mineralized zone. 3-4% chalcopyrite; 1-2% pyrite in a medium brecciated zone. Basic fragments 60%; quartz 30%; granite 10%.

712.2

712.2 Felspphyre - pale pink, bleached; 10% chloritized pseudo-phenocrysts in a fine grained pink matrix. 1% disseminated pyrite. Locally medium chloritized. 2-3% quartz.

721.5 -

721.5 Granite, relatively massive, fresh, becoming low altered near end.

729.0

729.0 Brecciated Granite. Medium brecciation, low alteration. Quartz 10-15%. Becoming relatively fresh at 735.0.

737.3 - Trap. Highly chloritized, dark green, soft.

738.1

738.1 Medium brecciated zone. Low alteration. Predominately pink granitic fragments and masses (up to 5.0') 60%. Interrupted by quartz-rich brecciated zones, and but by highly chloritized diabase dykes (15-20%); 20-25% quartz. Minor chalcopyrite associated with quartz. Note 1.0' highly chloritized, basic fine grained fragments or dykelet at 757.0.

766.3 - Diabase dyke. Medium grained, massive, medium chloritized.

768.0 - Medium brecciated zone, as at 738.1.

DESCRIPTION

785.0

785.0 Medium brecciated zone. Granitic fragments 25%; highly chloritized diabase 60%; quartz 20%.

788.7

788.7 Granite - relatively pink, fresh and massive; slightly fractured near end.

791.5 - Red banded felsophyre. Fine grained, red, banded at 50° c.n., uniform. Brecciated lower contact.

795.0 - Granite, as at 788.7.

796.8

796.8 Medium brecciated zone. Predominately highly chloritized, fine grained, basic fragments and masses. 20% quartz carbonate.

799.5

799.5 Highly brecciated zone. Predominately medium altered granitic fragments (1/4-4")in a quartz carbonate matrix (30-40%). 1-2% pyrite.

806.0

806.0 Highly brecciated zone. High alteration. Core badly broken up. Highly sericitized, fine grained, pale, greenish grey fragments 60%; quartz 30%; granite 5%; diabase 5%.

810.2

810.2 Unidentified Basic Rock (same as in V-34 and V-11). Fine grained, dark grey, slightly chloritized, with 20% fine (1-5 mm.), round, brownish and black pseudophenocrysts, amygdules(?). Noticeably magnetic. Trace pyrite along fractures.

815.0 - As above, but abruptly becoming paler green, very soft, due to high chloritization. "Pseudophenocrysts" dark green. Weakly magnetic. Sharp lower contact at 20° c.n.

818.0

818.0 Granite - Pink, relatively fresh and massive.

820.5

820.5 Highly brecciated zone. Medium alteration. Chloritized granitic fragments 70%; quartz carbonate 30%; trace pyrite.

830.3 - Diabase dyke. Medium grained, massive, highly chloritized.

832.0

832.0 Medium brecciated zone. Low alteration. Predominately relatively fresh granitic masses (75-80%), interrupted by quartz-rich brecciated zones. Total quartz 20%. 5% chloritized diabase. Note a quartz-rich (80%) zone from 853.5-856.1. Zone includes a phase of high sericitization with 50% quartz from 857.7-859.0. Note a 2" massive chalcopyrite blobs associated with quartz at 874.0.

874.5

874.5 Granite - relatively fresh and massive, pink. 5% quartz stringers.

884.0

884.0 Red felsite - Brick red, acidic, banded at 10° c.n. with 10-15% quartz streaks parallel to banding. Highly sericitized and slightly brecciated at both contacts.

	DESCRIPTION
	890.0
890.0	Brecciated granite. Low brecciation. Quartz 5-7%.
	893.3
893.3	Diabase dyke. Medium grained, massive. Highly chloritized. Sharp contacts at 50° and 45° respectively.
	901.3
901.3	Granite. Relatively fresh and massive. Highly chloritized at upper contact. Cut by 10% quartz stringers which locally give it a brecciated appearance; cut by a 1.3' highly chloritized, fine-medium grained, massive diabase dyke at 911.0. Followed by a 0.6' quartz carbonate zone with minor purple fluorite.
	914.7 - Quartz carbonate rich brecciated zone with 40% diabasic inclusions.
	915.7 - Granite, as at 901.3.
	918.3
918.3	Mineralized zone. 2-3% chalcopyrite, associated with quartz in a medium brecciated zone.
	To 922.5, host is chloritized diabase.
	From 922.5 - 923.3, a medium grained monzonite(?) dykelet. Note development of coarse muscovite flakes.
	925.0
925.0	Highly brecciated zone. Mineralization decreases to trace. Diabase 50%; granite 20%; quartz carbonate 20%; medium alteration.
	927.5
927.5	Granite - relatively fresh and massive, pink. Note a quartz-rich brecciated zone from 957.8-959.5 with trace pyrite; medium alteration. Note 0.5' diabase dykelet at from 948.0 (5-10° c.n.).
	950.0
950.0	Highly brecciated zone. Medium alteration (chloritization and sericitization). Size of fragments small (less than 1") Granite 60%; fine grained acidic 20%; diabase 5%; quartz carbonate 15%.
	955.0
955.0	Granite - Massive; low alteration. Note local kaolinization of feldspar constituents.
	960.5
960.5	Highly brecciated zone. High alteration. Quartz carbonate 70%; granite 30%.
	964.0
964.0	Medium brecciated zone. Low-medium alteration. Predominately granitic fragments and masses (up to 2 feet in length) 75%; chloritized diabasic fragments and dykelets 5%; quartz carbonate 15%; 1% pyrite throughout.
	997.0
997.0	Granite - Fresh and massive, red.
	1000.0
1000.0	End of Hole.

Sheet No. 1. ASSAY RESULTS Hole No. V-32

DESCRIPTION

CORE

Sample No.	Footage	Length	Cu.%	Au.%	Ag.%
2485	651.2-655.4	4.2	1.26		
2486	670.0-671.5	1.5	1.29		
2487	710.8-712.8	2.0	1.74		
2553	919.0-922.1	3.1	0.32		
4	922.1-925.2	3.1	0.69		

55M-35136

DIAMOND DRILL LOG

PROPERTY: Tribag Mining Co. Limited

HOLE NUMBER: V-35

LOCATION: Batchawana Bay, Ontario

DIP TESTS

Footage	Reading	Corrected
1015'	87 3/4	87°

Latitude: 500S

Dip: 90°00

Departure: 400E

Depth: 1023.9

Elevation: 975.86

Commenced: July 22,1963

Azimuth:

Finished: July 30, 1963

Logged by: M. Blecha

SAMPLE NUMBER	DESCRIPTION
	0.0 Casing 6.0
	6.0 Gabbro (volcanics?) Dark green, medium grained, relatively fresh and massive. The rock contains 2-3% large (1-20 mm.) white to pale green, rounded and subrounded zeolite-like inclusions (pseudoamygdules). Similar rock was encountered in D.D.H. N.S.1 at around 320.0'. Might be an important marker. 22.5
	22.5 Volcanics (andesite) Aphanitic near contact, becoming fine grained, dark green, relatively massive and fresh. 2-3% epidote stringers and patches; less than 1% quartz carbonate. Locally distinctly banded at 25-30° c.n. Frequent changes of grain size from aphanitic to fine grained. Trace pyrite. High chlorite in a shattered zone from 70.0 to 715. 5% quartz carbonate. 74.5 - Volcanics, as above, but becoming low-medium chloritized, slightly shatttered and cut by 2-3% carbonate, and hematite-stained stringers. 86.9
	86.9 Felsophyre. Pale pinkish brown, siliceous, fresh and massive. 7-10% quartz phenocrysts (1-2 mm.); 10% subhedral reddish feldspar phenocrysts, in an aphanitic matrix. Minor epidote. This could be a bleached phase of the felsophyre encountered in holes V-34 and V-31 in this below zone. Faint local foliation at 30° c.n. Contacts sharp at 30° c.n. 96.7
	96.7 Volcanics (andesite?) Dark greyish green, fine grained, fresh and massive. Less than 1% quartz carbonate; minor epidote. 109.0 - As above, but becoming distinctly foliated at 30° c.n. Minor soft brown micaceous alteration. 3-4% epidote patches. Trace pyrite associated with quartz stringers, at 114.0. 114.6
	114.6 Felsophyre. Reddish brown, siliceous, massive, slightly sericitized. 5% quartz phenocrysts; 5% chloritized phenocrysts in an aphanitic matrix. Upper contact cuts sharply across foliation of the above volcanics (75%); 5% quartz carbonate; trace disseminated pyrite. 118.0 - Felsophyre, as above, but colour changes gradually to pale green, due to increased sericitization, and rock becomes fairly soft, but still massive. Quartz phenocrysts disappear

	DESCRIPTION
	but sericitized phenocrysts increase in size (up to 20 mm.) and in amount (10%); 3-4% disseminated pyrite; 5% carbonate stringers.
	125.0 - As above, but rock gradually becomes more siliceous, less sericitized.
	126.0
126.0	Felsite-Rhyolite(?) Pale brownish-grey, siliceous, aphanitic irregularly banded, mostly at 25-30° c.n. Upper contact sharp at 45° c.n., lower contact sharp, and offset by minor faulting.
	128.0 - Felsophyre as at 114.6. Sharp lower contact at 40° c. to core normal.
	128.8
128.8	Volcanics? Well foliated at 30-35° c.n. Medium brown micaceous alteration, medium chloritization. Mineralized with 5% pyrite.
	129.7
129.7	Felsophyre, as at 114.6. Sharp upper contact at 30° c.n. Pale green, medium-highly sericitized, locally pinkish in less altered phases. 5% indistinct highly sericitized phenocrysts. Quartz phenocrysts 1-2%; only locally visible. 1-2% finely disseminated pyrite.
	159.0 - Felsophyre, as above, becoming pinkish, relatively fresh; quartz phenocrysts 7-10%. 1-2% pyrite along sericitized fractures. Massive.
	183.2
183.2	Volcanics, dark brownish green, medium brown micaceous alteration, medium chloritization, faintly foliated at 30° to core normal.
	190.6
190.6	Rhyolite? Grey, locally pinkish, well banded (25-30° c.n.) siliceous pseudoporphyritic rock, identical to that encountered in N-13 (78' approx.), V-57 (46'), N-17 (367 to 483), and similar to that in V-16 (155'). Trace pyrite.
	198.8 - Volcanics, dark green, fine grained. High brown micaceous alteration and minor brecciation near upper contact. 5% pyrite.
	200.0 - Rhyolite, as at 190.6. 60-70% subhedral and anhedral pale feldsparphenocrysts (1-3 mm.); 2-3% quartz phenocrysts in an aphanitic matrix. Banding less distinct than at 190.6 (25-30° c.n.)
	208.0
208.0	Volcanics (andesite) Green, fine grained, low chloritization, massive. Faint local banding at 35-40° c.n. Position of lower contact uncertain, core appears to be mixed up.
	220.5)?)
220.5(?)	Rhyolite(?) as at 190.6. Well banded at 25-30° c.n. Note 1.5' foliated (30°) altered, andesitic inclusion at 245.2-246.7, mineralized with 2-3% pyrite.
	250.0
250.0	Volcanics (andesite) Dark green, aphanitic to fine grained, slightly fractured. 2-3% pyrite-filled fractures; 1-2% epidote stringers; minor red feldspathic alteration. Locally foliated at 45° c.n. Note red rhyolite inclusion (or phase) from 268.0 - 271.3. Core broken up from 271.0 to272.0. Minor brown micaceous alteration.

	DESCRIPTION
	301.8
301.8	Granite, pale pinkish grey. Texture - medium grained, hypidiomorphic granular, not a typical Breton Zone granite. Quartz 30-35%; mafics 7-10%; feldspar 55-60%; trace pyrite. Note minor slightly mineralized quartz-filled fractures at 354' (60° c.n.) 370.5 (10° c.n.)
	381.0 - Granite, becoming medium chloritized; 1-2% pyrite; 1-2% quartz.
	385.0 - Granite, as at 301.8. Minor quartz-filled fractures at 407.7 (10° c.n.); less than 1% quartz. Relatively uniform, fresh and massive. Note occasionally porphyritic habit of quartz. Trace pyrite.
	535.0 - Granite, as above, but becoming fractured, slightly sericitized and chloritized.
	544.4
544.5	Fault Zone. Highly chloritized and shattered, fine grained, basic rock; 5% carbonate; 1-2% pyrite.
	547.0 - Shattering persists into the granitic host. Shearing at 70° c.n.
	548.0
548.0	Granite, as before. Slightly fractured, becoming fresh and massive from 550.0 on. Minor fracturing at 596.5-608.0.
	608.5
608.5	Fault Zone. High chloritization, high shearing at 50° c.n. 8-10% pyrite; quartz carbonate 5%; host is a fine grained basic rock.
	609.9
609.9	Granite, as before. Slightly fractured. Trace of pyrite; 1-2% quartz stringers. Note short highly brecciated, altered (earthy zones at 628.0 (1"), and at 628.7-628.9.
	765.7 - Shear Zone. Strong shearing at 60° c.n. High chloritization; minor carbonate.
	766.5 - Granite , as before, becoming slightly fractured at 785.0.
	786.3 - Trap, dykelet or xenolitic(?). Highly chloritized, sheared at 75° c.n. Contains several inclusions of granitic material.
	788.0 - Granite, as before. Pink, relatively fresh and massive, uniform, medium grained. 35% quartz; 5-7% mafics; 60% feldspar. Trace pyrite along fractures.
	854.0 - Granite, becoming locally bleached, and but by 5% quartz stringers. Note chloritized quartz-filled fracture at 85° c.n. with 1% pyrite from 992.0 - 994.0. Note minor earthy alteration along fractures at 962.5 to 963.0.
	971.2 - Felsite? Grey, fine grained, well banded at 40° c.n. Irregular sharp contacts.
	972.4 - Granite, Pinkish, medium grained, relatively fresh and massive.
	1023.8
1023.8	End of Hole.

DIAMOND DRILL LOG

PROPERTY: Tribag Mining Co. Limited — HOLE NUMBER: V-35

LOCATION: Batchawana Bay, Ontario — DIP TESTS

			Footage	Reading	Corrected
Latitude: 500 S	Dip: 90-00				
Departure: 400 E	Depth: 1023.9		1015'	87 3/4	87°
Elevation: 975.86	Commenced: July 22, 1963				
Azimuth: N/A	Finished: July 30, 1963	Logged by: D. Dickson			

SAMPLE NUMBER	DESCRIPTION
	0.0 - Casing 6.0 6.0 - Gabbroic or Andesitic, dark grey, fine grained with a few small white spots - some light grey or light brown 86.8 - 96.6 Felsitic, marbelized, mottled white and red, but generally light pink - some black spots and streaks at ends 114.3 - 120.0 Olive green to brownish with psuedo-amygdules both light brown and dark brown less than 1/8" diameter 120.0 - 122.8 Darker olive green with light olive amygdules up to 1/2" diameter 122.8 - 126.1 Light olive with black amygdules up to 1/8" diameter 126.1 - 130.2 Light olive with mottled and streaked dark grey and brown but with no amygdules 130.2 - 139.5 Very light pinkish grey, fine grained and with no amygdules 139.5 - 147.1 Greenish grey, some darker patdhes 147.1 - 157.3 Lighter more greenish olive than before 157.3 - 187.9 Light pinkish grey 187.9 - 206.0 Much darker, medium grey predominating, marbelized also 221.5 - 245.1 206.0 - 221.5 and 245.1 - 302.0 Diabase Gabbro, fine grained, dark grey 302.0 302.0 - Light pinkish grey, Rhyolite Fragmental or possibly granitic material becoming progressively deeper pink to about 520.0 544.6 - 547.0 Diabase Gabbro with many cracks (possible fault) 547.0 - Material changes to finer grain and colour trend reverses to begin a slow progressive change to a lighter pink 765.6 - 766.3 and 786.4 - 787.8 Black, fine grained Andesities 791.4 Colour changes to slightly deeper pink 884.0 - 893.5 Much lighter colour (greyish) ending in a long slip at 2 1/2 degrees to core (possible fault) 965.8 - 988.3 Much greyer section 1023.9 1023.9 - End of Hole Note: No samples were cut from this core.

SSM 35127

DIAMOND DRILL LOG

PROPERTY: Tribag Mining Co. Limited

HOLE NUMBER: V-43

LOCATION: Batchawana Bay, Ontario

DIP TESTS

				Footage	Reading	Corrected
Latitude: 0	Dip: 90°00	Pajari		850	N 42 W	85°
Departure: 800E	Depth: 867.1					
Elevation: 1089.1	Commenced: August 14, 1963					
Azimuth: N/A	Finished: August 22, 1963	Logged by: M. Blecha				

SAMPLE NUMBER		DESCRIPTION
	0.0	Casing
	5.0	
	5.0	Volcanics - (andesite) Dark green, hard, relatively fresh and massive. Texture fine grained, locally aphanitic, with minor coarser dioritic phases. From about 80.0' on, becomes slightly coarser grained, and reverting back to fine-aphanitic from 123.0 on. Minor zones of foliation throughout, but no distinct flow structures. Mon-magnetic. Cut by 1-2% epidote stringers and patches, and less than 1% hair-thin quartz stringers. Note a 1.0' zone of high foliation (75° c.n.) at 30.5-31.5; epidote rich quartz veins from 56.0-57.8. Pale brown felsitic siliceous dykelets at 64.5 (1",10° c.n.), at 68.8 (3",50° c.n.), at 89.0 (6", 10° c.n.), at 93.7 (1.0', 10° c.n.); and highly siliceous, highly epidotized zone at 77.5 (0.5'); 103.0 (2.0'). Note a 2" felsitic inclusion at 131.2.
	132.5	
	132.5	Felsite, pale pink, siliceous. Note locally granular pseudo-sedimentary sandstone-like texture (see specimen). Texture uneven, irregular, locally pseudoporphyritic. 40-50% quartz (secondary and primary). Contacts abrupt, but not sharp at 39° c.n., the rock contains 5% irregular chloritic patches and stringers.
	139.0	
	139.0	Grey, biotite granite. Different from the Breton-type granite. Medium grained (finer than Breton granite); 25-30% quartz (bluish-grey); 7-10% partly chloritized biotite; 60-70% pale slightly greenish grey feldspar. Good hypidiomorphic granular texture. Locally porphyritic appearance with quartz phenocrysts reaching 10 mm. Sharp lower contact at 50° c.n., but age relationship with underlying volcanics uncertain.
	148.2	
	148.2	Volcanics, (andesite) Dark green, fine grained to aphanitic, with minor slightly coarser amphibolitized phases throughout. These are particularly noticeable at 213.0-215.0, 244.0-250.0, 263.5-264.5. The rock contains several foliated phases, mostly at 45-30° c.n. These are commonly epidotized and probably represent flow structure. Total epidote 1-2%. Minor flow(?) breccia at 154.0'. Note coarsely xalline pinkish-white carbonate-quartz veins at 228.0-229.5, with highly chloritized contacts, and a 3" quartz vein at 70° c.n. at 247.3-248.0. Note 3" granitic dykelet 25° c.n. at 168.0'.

DESCRIPTION

275.0 - Volcanics, as above. Increase in epidote stringers and associated pale green alteration to 7-10%. Rock remains fine grained-aphanitic, massive, with minor foliated phases, and minor medium grained, recrystallized, amphibole-rich sections. Minor streaks of soft, brown micaceous alteration. Increase in amphibolitized phases from 317.0 to 322.0'.
335.0 - Volcanics, as above, becoming slightly shattered and fractured. Quartz carbonate stringers 2-3%; increase in epidote stringers to 7-10%. Minor amphibolitized phases.
366.5

366.5 Granite. Breton zone type. Greyish pink, medium grained, low-medium sericitization and chloritization. Massive, but cut by 5-7% quartz stringers at random angles. Sharp upper contact at 40° c.n.
392.0 - Granite, dark grey, slightly fragmented. Texture oblitereated by high silicification. 5% quartz stringers.
395.0 - Granite, becoming pinkish grey, slightly fractured, indistinct, partly obliterated texture.
408.5

408.5 Diabase Gabbro. Sharp chilled upper contact at 75° c.n. Dark green, massive and fresh. First 10 feet very fine grained to aphanitic, cut by 1-2% hair-thin quartz stringers. From 418.0 on, very gradually becoming slightly coarser, and ophitic texture becoming distinct. Noticeably magnetic throughout. Except for few medium grained phases, this diabase is fine grained (finer than others encountered in the Breton Zone), and could be mistaken for a greenstone. Generally uniform, and cut by 1% stringers, minor pyrite-filled fractures, no epidote. Note a 1" felsite dykelet (30° c.n.) at 471.0, and a 3" partly digested felsitic inclusion at 472.0.
485.0 - Diabase Gabbro, as above, becoming slightly paler green. Increase in pyrite-filled ffactures to 2-3%, and quartz carbonate stringers 1-2%. Distinct ophitic texture, becoming fine to medium grained from about 530.0 on. Minor amphibolitized phase; minor red feldspathic alteration. Note a 3" felsite dykelet at 577.5.
580.0 - Gabbro, as above, medium grained, but uniform and massive, cut by less than 1% quartz stringers, and trace pyrite-filled fractures. Ophitic texture is no longer distinct. Weakly magnetic throughout.
678.0 - Gabbro, as above, increase in pyrite-filled fractures to 1-2%.
692.4 - Fault? A 3" brecciated zone, highly chloritized and invaded by 30-40% quartz carbonate. Minor hematite staining. 50° c.n. Note minor development of biotite in gabbroic wall rock.
692.7 - Gabbro, as before. 1-2% pyrite-filled fractures. 1% quartz carbonate filled fractures.
800.8 - Fault? A 0.5 highly chloritized, brecciated zone, invaded by 15% quartz carbonate. Core partly broken up.

DESCRIPTION

801.3 - Gabbro, as before. Increase in pyrite to 2-3%; 1-2% thin quartz carbonate stringers.
818.4 - Fault. A 0.6' highly chloritized and brecciated zone; 40% quartz carbonate, medium hematite staining; 3-4% pyrite. Minor dark green talc(?).
819.0 - Gabbro, as before. Dark green, massive, medium grained with minor medium-coarse grained phases. Only trace of pyrite. Less than 1% quartz carbonate stringers. Minor local epidotization.
872.0
872.0 End of Hole.

NOTE: 867.2 - End of Hole, wrong in old hole.

55M 35136

DIAMOND DRILL LOG

PROPERTY: Tribag Mining Company Limited, HOLE NUMBER: V-50

LOCATION: Batchawana Bay, Ontario.

DIP TESTS

Latitude: 250 N Dip: 90° Footage Reading Corrected

Departure: 50 E Depth: 889.4'

Elevation: 997.18 Commenced: August 23, 1963 .

Azimuth: Finished: August 29, 1963. Logged by: M. Blecha.

SAMPLE NUMBER	DESCRIPTION
	0.0 Casing.
	~~20.0~~
	20.0 Mineralized zone 2% cpy in highly brecciated zone. Highly altered zone, size of fragments generally small, dull grey in color. Green granitic fragments 20%, highly chloritized dibase and fine grained basic fragments 60%, QC 20%.
	62.0
	62.0 Aplite dyke, reddish green, medium sericitized and chloritized, relatively massive.
	65.0
	65.0 Highly brecciated zone, high alteration. Highly chloritized basic (fine grained) and diabasic fragments 75%, highly chloritized granite 5%, highly sericitized acidic (?) 5%, QC 20%. Zone includes a 4 foot highly chloritized, not brecciated, basic material volcanic (?) from 80.0 to 84.0.
	99.0
	99.0 Highlly brecciated zone, highly altered, earthy and chloritized granitic fragments and masses 50%, highly chloritized diabase and fine grained basic material 30%. QC 20%. Note 1 foot highly chloritized, shattered, ~~xxx~~ disintegrated fine grained basic rock at 124.4.
	130.0
	130.0 Mineralized zone. 8-10% cpy, 3-4% py in a highly brecciated highly altered zone. Green granite 60%, highly chloritized basic material 10%, QC 10%.
	142.0
	142.0 Highly brecciated zone. Highly altered, size of fragments small, color greenish grey. Granitic fragments (earthy and chloritized) 15%, highly chloritized basic and diabasic fragments 60%, QC 25%. 1-2 % disseminated py and cpy associated with quartz.
	214.1
	214.1 Highly brecciated zone, altered gradually, diabase medium to highly altered. Acidic material 25% (aplitic), granitic fragments 15%, QC 20%, basic and diabasic fragments 40%, py and cpy 4%.
	225.1
	225.0 Highly brecciated zone, highly altered granitic fragments 10%, QC 25-30%, chloritized basic and diabasic 60%.
	245.0
	245.0 Mineralized zone. 20% cpy, 5% py in a highly brecciated highly altered zone as above. Note 0.5' of massive sulphide at 245.6.
	247.4

DESCRIPTION

247.6 Granite, relatively fresh and massive cut by 15% aplitic dykelets near upper contacts, becoming medium altered near lower contacts.
261.0

261.0 Mineralized zone. 1-2% py and 1-2% cpy in a highly brecciated highly altered zone, earthy and chloritized granite 20%, highly chloritized basic and diabasic material 40%, QC 40%.
273.5

273.5 Granite, medium altered (earthy, green), massive.
277.0

277.0 Highly brecciated zone. Highly altered. Granitic fragments 10-15%, highly chloritized basic and diabasic 30%, QC 55%, minor py and cpy.
300.0

300.0 Mineralized zone. 8% cpy, 3% py in a highly brecciated zone, highly altered. Predominantly basic 75%, QC 15%.
303.0

303.0 Highly brecciated zone as above but mineralization decreases to trace.
308.0

308.0 Highly brecciated zone, medium altered. Relatively fresh granitic fragments 50%, altered granitic fragments 5%, acidic 5%, QC 15%.
311.0

311.0 Granite, pink, fresh, massive. Contains highly brecciated, highly altered quartz rich zone (predominantly basic) from 312.6 to 314.2 and from 317.7 to 320.0. Fresh granite cut by quartz stringers 5%.
336.7

336.7 Mineralized zone. 1-2% cpy, 1-2% py in a medium brecciated, low to medium altered zone. Relatively fresh granite, 50%, fragments and dykelets 15%, QC 15%.
358.0

358.0 Granite, pink, fresh, massive. Quartz 5%. Minor patchy chloritized and earthy alteration.
367.7

367.7 Medium brecciated zone. Low alteration. Predominantly granitic fragments and masses (75-80%), highly chloritized diabasic fragments 5%, chloritized basic fragments 5%, QC 20%. Note 2-3% cpy, 2-3%py in highly brecciated, highly altered zone. from 370.0 to 371.5.
384.3

384.3 Granite, pink, fresh, and massive. Interrupted by a QC vein at 60-80° c.n., with granitic and small chloritic inclusions from 393.3 to 394.8. Note 4" syenitic dykelet at 398.0.
398.7

398.7 Mineralized zone. 1-2% cpy and 1-2% py. Trace MoS_2 in medium brecciated zone. Low alteration. Relatively fresh granite 60% medium chloritized basic and diabasic fragments 15%, QC 20%.
420.0

420.0 Granite, pink, fresh, massive. Minor white earthy alteration of feldspar phenocrysts in first 12 inches.
422.7

422.7 Trap dyke, dark greenish grey, fine grained foliated at 30° c.n. cut by 2% QC with minor py and cpy. Upper contact sharp at 5° c.n., lower contact brecciated. at 425.0.
425.0

DESCRIPTION

425.0 Low brecciated zone. Low altered, predominantly granite 65-70%, chloritized basic and diabasic material 10%, red acidic fragments less than 5%, QC 10%. Note minor white kaolinization of felspar constituents. 1% py and cpy.
450.3 Aplitic dyke, red fine grained, massive and fresh, lower contact gradational, upper at 50° c.n.
452.4 Medium brecciated zone. Predominantly fresh granite cut by a medium chloritized 0.6' trap at (70-30° c.n.). Quartz 10%, minor py and cpy.
454.1

454.1 Granite, pink, fresh, massive. Minor kaolinization of feldspar. Quartz 5%
465.0

465.0 Low brecciated zone. Predominantly relatively fresh granite (70%), altered aplitic fragments less than 5%, QC 25%.
476.8

476.8 Highly brecciated zone. Medium to high alteration. Relatively unaltered granite 5%, altered granite (earthy and chloritized) 20%, chloritized basic fragments 10%, chloritized diabasic fragments or dykelets 10%. Altered acidic and aplitic fragments 10%, QC 35%, 2-3% py and 1% cpy in widely scattered blobs associated with quartz.
537.0 Highly brecciated zone, highly altered. Chloritized granites 5%, highly chloritized and sericitized basic fragments 40%, QC 5%. Note 10% of highly altered, clay-like very soft, greenish brown fragments.
541.5

541.5 Highly brecciated zone. Medium to high alteration. Granitic fragments 70%, altered aplitic fragments 10%, diabase less than 5%, QC 20%, 1% py.
557.0 Brecciated diabase. Fine to medium grained. Medium chloritized cut by a 10% QC with angular fragments of diabase, aplitic fragments 1-2%.
565.7 Highly brecciated zone. Medium altered granite 50%, altered aplitic fragments 10%, chloritized basic material 10%, QC 25%. Cut by 1.5' of highly chloritized fine grained diabase. dyke at 575.2.
595.0

595.0 Mineralized zone, 1% cpy, 1-2% py in a highly brecciated zone. Highly altered. Granitic fragments 40%, chloritized basic fragments 5%, altered acidic fragments 5%, QC 55%.
606.6

606.6 Highly brecciated zone ~~but~~ mineralization decreases to trace. Cut by a highly chloritized brecciated diabase from 612.0 to 613.5. Lost core 617.0 to 618.3.
620.2 Quartz 95% with 5% altered granitic inclusions. Note ½" blob of cpy at 622.0.
622 .9 Medium brecciated zone. Medium altered fresh granite 10%, chloritized ~~XXX~~ granite 30%, chloritized aplite 10%, QC 20%.
632.3 Lost core.
634.5 Mineralized zone, 2-3% cpy, 1-2% py in a highly brecciated zone. Alteration medium to high. Granite 25%, QC 75%.
653.5

653.5 Low brecciated zone, low altered predominantly granite 80%, altered acidic fragments 5%, Qc 10-15%, 1% py and cpy. Note

DESCRIPTION

a one foot highly altered granite at 673.3, followed by a one foot QC zone. Minor chloritic patches of kaolinization of feldspar constituents,
699.0

699.0 Medium brecciated zone. Alteration gradually increases to medium. Granitic fragments and masses 75%, altered acidic fragments less than 5%, chloritized basic and diabasic material 10%, QC 15%. Note small fragments of banded, altered pseudoporphyritic material at 724.0.
727.7 Quartz-rich (80%) brecciated zone with 20% granitic fragments and minor banded pseudoporphyritic fragments near end.
729.5

729.5 Brecciated granite. Low brecciation. Low alteration. Quartz 10%.
733.5

733.5 Highly brecciated zone. High alteration. Earthy and chlorite granite 30%, altered acidic fragments 5%, basic fragments 20%, QC 25%, cut by a 0.8' grey, highly chloritized porphyritic dykelet at 739.0 at 30° c.n.
740.0

740.0 Mineralized zone. 1-2% cpy, less than 1% py in a highly brecciated zone. Medium to high alteration. Mineralization associated with quartz carbonate (45-50%). Highly chloritized basic fragments and/or dykelets 25%, medium altered (earthy and chloritized) granite 20%.
747.0 As above, but alteration decreases to low to medium, and rock is predominantly granitic 65%, highly chloritized, basic fragments less than 5%, QC 35%; from 750.0 on, mineralization decreases to trace.
755.0

755.0 Brecciated granite. Low brecciation, low alteration (chloritized patches and minor kaolinization of feldspar constituents. Quartz 5%, trace py.
765.8

765.8 Medium brecciated zone, low alteration. Predominantly granitic (75%), aplite fragments and dykelets 10%, QC 5-10%. Few minor chloritized diabasic fragments embedded in quartz matrix.
772.0

772.0 Brecciated granite, low alteration, low brecciation. Quartz 10%, minor chloritic patches.
777.7 Granitic "injection". Red, fresh, massive. Note minor white earthy alteration of feldspar.
779.5

779.5 Medium brecciated zone. Low to medium alteration. Predominantly/relatively fresh granitic fragments and masses (60%), chloritized basic fragments 5%, fine grained acidic and aplitic fragments and/or dykelets 5%, QC 25%. Note blobs cpy and py associated with quartz at 789.0. Note 1.2' highly chloritized, relatively massive, fine grained greyish green trap dykelet at 790.0. Note at 806.4 a 1.8' dykelet of red quartz porphyry. (20% rounded quartz "eyes" in a fine grained, feldspathic red matrix), massive and fresh. Note at 808.1 a 0.5' chloritized trap dykelet.
808.8

808.8 Highly brecciated zone, Low to medium alteration. Size of fragments relatively small (¼"-4"). Granitic fragments 55-

	DESCRIPTION
	60%, red acidic fragments 5%, diabasic fragments less than 5%, basic 5%. Minor fragments of highly altered (earthy and chloritized) granite. QC 35%. Note relatively fresh and massive granitic "injection" from 816.7 to 818.5.
	826.6
826.6	Granite, pink, fresh, and massive. 2-3% quartz stingers.
	831.3
831.3	Highly brecciated zone, medium alteration. Granite 65%, acidic less than 5%, highly chloritized diabasic 5%, QC 25%.
	835.4
835.4	Brecciated granite, low alteration, low brecciation. Cut by a highly irregular, fresh aplite dykelet from 836.5 to 837.5 with 15% diabasic inclusion embedded without intervening quartz. Total quartz stringers less than 5%. Trace py.
	838.2
838.2	Medium brecciated zone, medium alteration. Relatively fresh granitic masses (up to 1.0') and fragments (¼"-4") 30%, diabasic fragments 30%, altered acidic fragments less than 5%, QC 25-30%.
	846.8
846.8	Granite, massive, pink, low alteration (chloritization), quartz stringers less than 5%.
	851.3
851.3	Medium brecciated zone. Medium to high alteration. Relatively fresh granite 15%, highly altered (chloritized and earthy) granite 35%, basic fragments and/or dykelets 10% acidic fragments anddykelets 15%, QC 20%. Zone contains a highly altered (chloritic and earthy) brecciated granitic zone from 861.1 to 867.0, and from 874.0 to 880.0. Note a 0.6 highly altered, very soft brownish green dykelet (?) at 880.5.
	883.2
883.2	Medium brecciated zone. Low alteration, predominantly granitic (85%), quartz 5%, basic fragments embedded in quartz less than 5%, xxxxxxxxxxxxxxx
	889.4
889.4	End of hole.

Sheet No. 1. ASSAY RESULTS Hole No. V-50

DESCRIPTION

CORE

Sample No.	Footage	Length	Cu.%	Au.%	Ag.%
4755	20.0-25.0	5.0	1.21		
6	25.0-30.0	5.0	0.33		
7	30.0-35.0	5.0	0.47		
8	35.0-40.0	5.0	0.51		
9	40.0-45.0	5.0	0.88		
4760	45.0-51.7	6.7	0.45		
1	51.7-55.6	3.9	0.86		
2	55.6-60.0	4.4	0.61		
3	60.0-65.0	5.0	0.20		
4764	125.0-130.0	5.0	0.21		
5	130.0-132.5	2.5	6.59		
6	132.5-135.0	2.5	7.65		
7	135.0-140.0	5.0	1.41		
8	140.0-146.0	6.0	0.77		
9	146.0-155.0	9.0	0.18		
4770	155.0-163.0	8.0	0.38		
1	163.0-169.0	6.0	0.29		
2	169.0-174.0	5.0	0.36		
3	174.0-182.5	8.5	0.21		
4	182.5-189.0	7.5	0.43		
5	189.0-195.0	6.0	0.42		
6	195.0-200.0	5.0	0.97		
4846	200.0-205.0	5.0	0.27		
7	205.0-210.0	5.0	0.14		
8	210.0-215.0	5.0	0.38		
9	215.0-220.0	5.0	0.21		
4850	220.0-225.0	5.0	0.27		
4777	225.0-231.0	6.0	0.30		
8	231.0-237.0	6.0	0.28		
9	237.0-243.3	6.3	0.18		
4780	243.3-247.6	4.3	7.97		
1	247.6-252.6	5.0	0.60		
2	252.6-257.6	5.0	0.23		
3	257.6-262.5	4.9	0.11		
4	262.5-267.5	5.0	0.69		
5	267.5-273.5	6.0	0.90		
4789	295.0-300.0	5.0	0.16		
4790	300.0-302.9	2.9	3.10		
1	302.9-308.3	5.4	0.49		
4970A	335.0-340.0	5.0	0.12		
4958A	340.0-343.6	3.6	0.33		
4807	343.6-347.7	4.1	0.56		
8	347.7-356.0	8.3	0.17		
9	356.0-358.5	2.5	1.09		

ASSAY RESULTS

Hole No. V-50

DESCRIPTION

CORE

Sample No.	Footage	Length	Cu.%	Au.%	Ag.%
4810	398.7-400.5	1.8	0.30		
1	400.5-405.5	5.0	0.12		
2	405.5-410.5	5.0	0.28		
3	410.5-415.0	4.5	0.36		
4	415.0-420.0	5.0	0.31		
4815	517.2-520.0	2.8	0.27		
6	520.0-522.5	2.5	0.80		
7	522.5-525.0	2.5	0.40		
4857	585.8-590.8	5.0	0.21		
8	590.8-595.8	5.0	0.65		
9	595.8-600.0	4.2	0.32		
4860	600.0-605.0	5.0	0.31		
1	605.0-610.0	5.0	0.32		
4851	634.5-640.0	5.5	0.20		
2	640.0-644.0	4.0	1.97		
3	644.0-648.4	4.4	0.97		
7969	648.4-653.5	5.1	0.63		
6182	739.2-744.2	5.0	0.21		
6183	750.0-755.0	5.0	0.16		
6184	783.0-788.0	5.0	0.06		
4923A	788.0-789.0	1.0	1.94		
6185	789.0-794.0	5.0	0.10		
AVERAGES:					
	20.0-60.0	40.0	0.65		
	125.0-273.5	148.5	0.86		
	130.0-146.0	16.0	2.95		
	130.0-140.0	10.0	4.27		
	243.3-252.6	9.3	4.01		
	125.0-308.3	183.3	0.76		
	640.0-648.4	8.4	1.45		

55M 35136

DIAMOND DRILL LOG

PROPERTY: Tribag Mining Co. Limited HOLE NUMBER: V-54

LOCATION: Batchawana Bay, Ontario DIP TESTS

Latitude: 0 00 Dip: 90° Footage Reading Corrected

Departure: 5 00E Depth: 856.5

Elevation: 1039.65 Commenced: August 30, 1963

Azimuth: Finished: September 5, 1963 Logged by: M. Blecha

SAMPLE NUMBER	DESCRIPTION
	0.0 Casing 11.0
	11.0 Volcanics (andesite?) Green, fine grained, to aphanitic, fresh and massive rock. Locally faintly foliated at 30° c.n. 5% epidote stringers and patches. Note amphibole needles at 11.5'. Sharp lower contact at 10° c.n. 29.2
	29.2 Granite - Medium grained, pink, relatively fresh and massive. 30% quartz; 10% mafics; 60% red feldspar. Note 1.0' volcanic inclusion(?) or trap dykelet at 33.0, with sharp contacts at ~5° c.n. and 10-15° respectively. Note peculiar texture of granite unlike the common granite encountered in the Breton Zone. (see specimen) 41.5
	41.5 Highly brecciated zone. Volcanics 80%; granite 10%; quartz carbonate 10%. 43.7
	43.7 Granite - as at 29.2. Last 12" highly brecciated. Trace pyrite. 47.5
	47.5 Highly brecciated zone. Predominately basic volcanic fragments (70%); granitic fragments 10%; quartz carbonate 10-15%; medium chloritization. Note - Pink, soft, platy mineral, associated with quartz carbonate. Low-medium epidotization. Size of fragments relatively small (less than 2"). Granite fragments gradually disappear downward. 70.8
	70.8 Mineralized Zone. 1-2% chalcopyrite; 5-6% pyrite in a medium brecciated zone. Low-medium chloritization. Predominately fine grained, basic volcanic fragments and masses (85%); quartz carbonate 10-15%; less than 5% brown acidic fragments; 1-2% granite. 107.5
	107.5 Volcanics (andesite?), as at 11.0'. Relatively fresh minor epidote stringers and patches, mostly at 30° c.n. Trace pyrite. Note highly chloritized, sheared zone from 122.0-124.5 (shearing at 35° c.n.). Minor zones of amphibolitization. Minor foliated (45° c.n.) phases. Lower contact lost.

DESCRIPTION

176.0
176.0 Granite - Pink, fresh, massive. 5-7% chloritized mafics.
183.3
183.3 Amygdaloidal Volcanics(?) Dark green, fine grained, ophitic texture? (get this section!) Few (less than 1%) rounded and subrounded, pink and greenish inclusions (pseudophenocrysts?-or amygdules?). Noticeably magnetic. Trace pyrite and chalcopyrite along fractures.
190.0
190.0 Felsophyre. Greenish pink, slightly sericitized. 5-7% pale green, sericitized phenocrysts; 5-7% dark green, chloritized phenocrysts; less than 5% quartz phenocrysts (1-2 mm.) in a pink, aphanitic, feldspathic matrix. Upper contact lost; lower contact brecciated.
199.8
199.8 Highly brecciated zone. 55-60% fine grained, basic fragments (some weakly magnetic); 5% scattered felsophyric fragments (same as at 190.0-199.8); 10-15% granitic fragments; 20% quartz carbonate ; less than 5% gabbro; mineralized throughout with 1-2% chalcopyrite, 1-2% pyrite. Low-medium chloritization. Minor epidote, minor hematite staining.
242.0
242.0 Brecciated Granite. High brecciation, low-medium alteration. Quartz carbonate 20%; less than 5% basic volcanic fragments; trace pyrite.
253.0
253.0 Highly brecciated zone. 55% fine grained basic volcanic fragments; 10-15% diabase; 5% felsophyric (concentrated around 268.0-270.0); 30% quartz carbonate. Minor epidote. Low-medium chloritization. Mineralized with 2-3% chalcopyrite and 1-2% pyrite.
274.0 - Highly brecciated zone, as above, but mineralization decreases to 1% pyrite, trace chalcopyrite. Note 1.0' felsophyre dykelet (same as at 190.0) at 290.0.
293.7
293.7 Granite - Pink, medium grained, relatively fresh and massive. Note texture is more hypidiomorphic than the common Breton zone-type granite. 1-2% quartz stringers.
339.0 - Granite, as above, but paler in colour. Minor traces of pyrite and chalcopyrite along fractures.
Minor short phases of increased mafics to 10-15%. Hypidiomorphic texture persists. Note 1/2" quartz-filled fractures (70° c.n.) with accompahying medium chloritization of granite between 407.5-408.5.
411.0 - Granite, as above, but colour gradually changing back to pink. 1-2% quartz stringers. Trace pyrite along fractures, and minor disseminated pyrite.
440.5 - Granite - Becoming fractured (not brecciated). Gradual increase of chloritized mafics to 20-25%, and corresponding decrease in quartz. Between 443.0-446.0, quartz decreases to less than 10%. Core partly broken up. Trace pyrite.
456.0 - Granite - Pink, fresh and massive, as at 411.0. Trace pyrite, minor epidote.

	DESCRIPTION
	480.0 - Granite, becoming bleached to a pale grey colour. Minor fracturing. 1% quartz stringers.
	491.4 - Lost core.
	494.0 - Granite, as at 480.0. Grey, with minor pinkish phases. Minor chloritic patches. Note 2" pink felsite dykelet at 531.5. Minor kaolinization of feldspar near end.
	541.3
541.3	Mineralized Zone. 2-3% chalcopyrite, 2% pyrite, associated with quartz in a highly brecciated zone. Medium chloritization and earthy alteration. Predominately granitic fragments 55%; fine grained basic fragments 10%; diabase 10%; quartz carbonate 25-30%. Note medium grained, relatively fresh and massive diabase dykelet from 545.7-547.0 (barren).
	566.0 - Mineralization decreases to 1-2% chalcopyrite, 1% pyrite in a highly brecciated zone as above.
	575.5
575.5	Gabbroic Dyke - Medium grained, fairly magnetic, massive and fresh.
	576.8
576.8	Highly brecciated zone. Medium alteration. Granite 50%; gabbro 25%; fine grained basic (volcanic) 10%; quartz carbonate 20%; trace pyrite and chalcopyrite. Note fresh and massive, red granitic "injection" from 592.7-595.0 and 593.0-600.5.
	600.8
600.8	Volcanics? Highly altered (chloritized and greenish earthy alteration). Very soft, crumbly, sheared at 30° c.n. Trace pyrite; no quartz.
	604.0
604.0	Diabase - Medium grained, highly chloritized. This highly altered zone from 600.8-610.5 could be a fault. Note several striated slip planes.
	610.5
610.5	Highly brecciated zone. Highly chloritized diabase 50%; quartz carbonate 35%; granitic fragments 15%.
	614.3
614.3	Granite - Red, medium grained, massive, relatively fresh. Typical allotriomorphic - Breton Zone type granite. Last two feet brecciated and cut by 20% quartz carbonate.
	621.8
621.8	Highly brecciated zone. Medium alteration. Granitic fragments 35%; diabase 20%; fine grained basic volcanics 10%; quartz carbonate 15-20%. 1% chalcopyrite, 1% pyrite.
	631.0
631.0	Brecciated Granite. High brecciation, medium alteration. Quartz carbonate 30%; 5% diabasic, volcanics and acidic fragments; 1% pyrite, trace chalcopyrite, associated with quartz.
	663.3
663.3	Granite - as at 614.3. 2% quartz stringers. Note 1" quartz stringers, mineralized with pyrite at 80° c.n. at 672.0-673.0.
	677.5
677.5	Mineralized Zone. 10% pyrite (possibly some marcasite - see Cutcomb structure in specimen) in a highly brecciated medium altered earthy granite, associated with quartz carbonate. Quartz carbonate 40%.

DESCRIPTION

680.7

680.7 Brecciated Granite. High brecciation, medium earthy alteration and chloritization. Quartz carbonate 25-30%; 2-3% diabasic fragments or dykelets. Note 2" extreme earthy alteration at 707.3.

708.8

708.8 Granite, red fresh, massive.

715.0 - Granite - Massive, but medium earthy alteration and chloritization.

717.8

717.8 Brecciated Granite. High brecciation, medium alteration (earthy), mineralized throughout with 2-3% pyrite, trace chalcopyrite; quartz carbonate 30%.

776.5 - As above, but alteration increases to medium-high. 5% chloritized diabasic fragments or dykelets. Quartz carbonate 30%.

793.0

793.0 Brecciated Granite - High sericitization and chloritization, medium brecciation. Quartz carbonate 30%-35%; 1-2% pyrite. Note fresh, red, massive granitic "injection" at 849.3-848.0.

851.0

851.0 Granite - Red, massive, fresh, except for minor kaolinization of feldspar constituents.

856.6

856.6 End of Hole.

Sheet No. 1. ASSAY RESULTS Hole No. V-54

DESCRIPTION

CORE

Sample No.	Footage	Length	Cu.%	Au.%	Ag.%
5501	65.9-70.9	5.0	0.09		
2	70.9-76.0	5.1	0.25		
3	76.0-81.0	5.0	0.36		
4	81.0-86.0	5.0	0.35		
5	86.0-91.0	5.0	0.32		
6	91.0-96.0	5.0	0.65		
7	96.0-101.0	5.0	0.21		
8	101.0-106.0	5.0	0.15		
9	106.0-111.0	5.0	0.10		
5510	202.5-205.0	2.5	0.14		
1	205.0-210.0	5.0	0.34		
2	210.0-215.0	5.0	0.13		
3	215.0-220.0	5.0	0.12		
4	220.0-222.5	2.5	0.30		
5529	222.5-227.5	5.0	0.10		
5530	227.5-232.5	5.0	0.22		
1	232.5-237.5	5.0	0.10		
2	237.5-242.5	5.0	0.14		
3	242.5-247.5	5.0	0.03		
4	247.5-252.5	5.0	0.04		
5	252.5-257.5	5.0	0.10		
6	257.5-262.5	5.0	0.26		
7	262.5-267.5	5.0	0.16		
8	267.5-272.5	5.0	0.63		
9	272.5-277.5	5.0	0.33		
5563	536.0-541.0	5.0	0.08		
4	541.0-546.0	5.0	2.46		
5654	546.0-551.0	5.0	0.12		
5	551.0-556.0	5.0	0.24		
6	556.0-561.0	5.0	0.46		
7	561.0-566.0	5.0	1.02		
8	566.0-571.0	5.0	0.25		
9	571.0-575.8	4.8	0.30		
5625					
5625	620.0-625.0	5.0	0.21		
5677	677.6-681.8	4.2	0.06		
5678	728.8-733.8	5.0	0.17		
9	733.8-738.8	5.0	0.13		
5680	738.8-743.8	5.0	0.09		

ASSAY RESULTS

Hole No. V-54

DESCRIPTION

CORE

Sample No.	Footage	Length	Cu.%	Au.%	Ag.%
5681	743.8-748.8	5.0	0.08		
2	748.8-753.6	4.8	0.16		
3	753.6-758.6	5.0	0.10		
4	758.6-763.6	5.0	0.14		
5	763.6-768.6	5.0	0.15		
6	768.6-773.6	5.0	0.11		
7	773.6-778.5	4.9	0.10		
8	778.5-783.5	5.0			
9	783.5-788.5	5.0	0.10		
5690	788.5-793.8	5.3	0.10		
Averages:	541.0-566.0	25.0	0.86		

SSM 35136

DIAMOND DRILL LOG

PROPERTY: Tribag Mining Co. Limited HOLE NUMBER: V-57

LOCATION: Batchawana Bay, Ontario

Latitude: 7.00S Dip: 90° Footage 908' DIP TESTS Pajari Reading N33°W Corrected 81°

Departure: 6.00E Depth: 913.5

Elevation: Commenced: September 25, 1963

Azimuth: Finished: September 30, 1963 Logged by: M. Blecha

SAMPLE NUMBER	DESCRIPTION
	0.0 Casing 6.0
	6.0 Gabbro. Dark green, medium grained, relatively fresh and massive. Cut by a 1/2" quartz carbonate stringer with trace chalcopyrite at 70° c.n., at 7.7. Note a 4" quartz-rich brecciated zone at 16.7-17.0. 21.9
	21.9 Brecciated Gabbro. Medium Breton-Zone type brecciation, low alteration. 15% quartz carbonate; 2-3% orange gangue material associated with quartz carbonate (same as in some predominately basic breccia zones in the eastern part of the Breton Zone); weakly mineralized with less than 0.5% chalcopyrite associated with quartz carbonate. 29.2
	29.2 Gabbro, as before, relatively fresh and massive. 33.0 - Brecciated Gabbro - Medium epidotization, medium red feldspathic alteration. 5-7% quartz carbonate. 34.5 - Gabbro, as at 29.2. 1-2% quartz stringers, minor local foliation at 25° c.n. Trace pyrite and chalcopyrite along fractures. 41.5
	41.5 Brecciated Gabbro - High brecciation, medium chloritization, 50-60% quartz carbonate; 1% pyrite. Core partly broken up. 44.0
	44.0 Gabbro - Dark green, fine grained, locally faintly foliated, medium chloritized, medium soft brown, micaceous alteration. Trace pyrite and molybdenite; minor epidote (note this could possibly be volcanics?). 57.0
	57.0 Shatter Zone. (New Senator-type shattering) Medium intensity. 10% quartz carbonate; 2-3% hematite-stained stringers; 1-2% orange, platy gangue mineral; less than 1% pyrite, trace cpy. The host is a fine grained, basic, medium-highly chloritized (volcanic?) rock. 74.0
	74.0 Volcanics? Dark greyish-green, fine grained, massive, low chloritization. 79.0
	79.0 Medium brecciated zone. Predominately fine grained, basic rock (volcanic?). Medium chloritized. 15-20% quartz carbonate; 1-2% pyrite, trace chalcopyrite, trace MoS_2.

	DESCRIPTION
	97.0
97.0	Volcanics. Fine grained, dark greenish grey, massive, low chloritization. 2-3% finely disseminated pyrite. Note a short quartz-rich brecciated zone at 102.5-103.0.
	110.0
110.0	Highly brecciated zone. Relatively long (up to 2 ft.), massive sections of fine grained basic volcanic rock, interrupted by quartz-rich breccia zones, with embedded volcanic fragments. Total Quartz carbonate 25-30%. Mineralized throughout with 1% pyrite, 0.5% chalcopyrite, trace MoS_2. Medium chloritization. Good Breton Zone-type brecciation.
	186.7
186.7	Shatter Zone. Quartz decreases abruptly to 1-2%. The rock is cut by 3-4% carbonate, and hematite stringers. Medium chloritization of a fine grained, basic, volcanic host. Relatively low intensity of shattering. Trace pyrite, chalcopyrite and MoS_2.
	193.0 - Shatter Zone. High intensity, high chloritization. Rock breaks up easily. 5% quartz carbonate; trace chalcopyrite. Probably a fault zone.
	208.5
208.5	Gabbro (volcanics?) Dark greenish grey, highly chloritized, fine-medium grained; 1-2% carbonate and hematite stringers.
	213.0
213.0	Brecciated Gabbro. Low brecciation, medium chloritization.
	216.5
216.5	Mineralized Zone. 3-4% chalcopyrite associated with quartz carbonate; 1-2% disseminated pyrite in a medium brecciated zone. The host is a fine grained basic rock. Quartz carbonate 25-30%; high chlorite.
	220.0 - Mineralization decreases to 1% chalcopyrite, 1% py. Medium brecciated zone as above.
	225.0
225.0	Highly brecciated zone. High chloritization. Predominately fine grained, basic rock (volcanic). Minor coarser grained (gabbroic?) fragments; quartz carbonate 15-20%; minor epidote. Mineralized throughout with 1-2% pyrite, trace chalcopyrite.
	260.0
260.0	Medium brecciated zone,, as before, but quartz carbonate decreases to 10-15%. The zone contains relatively long (2-3') massive sections, interrupted by quartz-rich brecciated zones. The host is predominately medium grained gabbro (60-70%). Mineralized throughout with 1-2% pyrite; trace chalcopyrite.
	275.0
275.0	Volcanics - Green, fine grained. Local distinct tuffaceous banding at 45° c.n. Low-medium chloritization. Trace pyrite minor epidote, minor reddish feldspathic alteration.
	280.0
280.0	Brecciated Volcanics. Weak brecciation. A network of quartz carbonate stringers locally isolates the volcanic host rock, giving it a brecciated appearance. Quartz carbonate 15%; minor epidote; medium brown micaceous alteration.

DESCRIPTION

292.0

292.0 Mineralized Zone. 1-2% pyrite, less than 1% dhalcopyrite, finely disseminated and associated with quartz carbonate, in weakly brecciated volcanics as above. Note development of coarse biotite flakes. Low chloritization. Quartz carbonate 15%.

307.4

307.4 Volcanics - Fine grained, dark green, massive, fresh. 7-10% quartz carbonate stringers, mostly parallel to core. Trace pyrite along fractures.

315.0

315.0 Mineralized Zone. 2-3% chalcopyrite, 1-2% pyrite, associated with quartz carbonate in a quartz-carbonate-rich brecciated zone as above. Quartz carbonate 35%; basic volcanics 60%. Note medium brown micaceous alteration, and development of coarse biotite flakes. Minor hematite-stain stringers.

317.0

317.0 Volcanics - Dark green, fine grained, fresh and massive. Minor b[illegible] micaceous alteration, faint local foliation at 45-50° c.n. Trace pyrite and chalcopyrite near end.

320.8

320.8 Mineralized Zone. 3-4% chalcopyrite, 1% pyrite, associated with quartz carbonate and concentrated between 322.0-323.0, in medium brecciated volcanics. Quartz carbonate 20%. Note pink hematite-stained carbonate stringers at 321.5.

323.5

323.5 Volcanics - Dark green, fine grained, relatively fresh and massive, interrupted by 2" quartz carbonate rich breccia zones at 326.0 and 333.0.
From 335.0 on, the rock is cut by 3-4% hematite -stained carbonate stringers that commonly signify incipient shatter ing. Faint local foliation (tuffaceous banding?) at 20° to 25° c.n.

343.2

343.2 Felsophyre (Rhyolite?) Pale pinkish brown, siliceous, well banded at 30° c.n. 10% quartzeyes (1-3 mm.) in an aphanitic matrix. Sharp upper contact at 30° c.n. Becoming greenish (sericitized) near end.

347.5

347.5 Highly brecciated zone. 25% quartz carbonate. High chloritization of a felsophyric host. Vuggy. No mineralization

349.5

349.5 Felsophyre (Rhyolite) as at 343.2, but banding becomes less distinct. Sharp lower contact at 15° c.n.

360.5

360.5 Volcanics. Dark green, locally well foliated (tuffaceous banding)?) at 30-50° c.n. Minor brown micaceous alteration Cut by 3-5% pinkish and hematite-stained carbonate stringer Low chloritization.

374.4

374.4 Felsophyre, as at 349.5. Minor fracturing. 2-3% quartz carbonate stringers. Last 6" highly silicified, and mineralized, with 1-2% chalcopyrite.

DESCRIPTION

389.0 - Quartz Vein. White, fractured quartz; mineralized with trace pyrite, chalcopyrite and molybdenite.
390.0 - Felsophyre, as at 374.4, but medium sericitized, and cut by 5% quartz stringers.
391.0 - Quartz vein, as at 389.0. Trace pyrite and molybdenite.
392.3 - Brecciated Felsophyre. Greenish, medium sericitized. 10% quartz carbonate.
395.0

395.0 Brecciated Felsophyre. Highly chloritized and sericitized. Quartz phenocrysts locally absent. Greyish green, cut by 15% quartz carbonate, and mineralized with 1% chalcopyrite, less than 1% pyrite.
401.3

401.3 Mineralized Zone. 3-4% chalcopyrite in quartz carbonate-filled fractures, cutting a highly chloritized and sericitize felsophyre. Quartz carbonate 10%.
405.0

405.0 Felsophyre, as before; alteration decreases to low-medium. Pale greyish brown, slightly fractured, and cut by 5% quartz carbonate stringers. Trace pyrite and chalcopyrite. Minor local incipient brecciation near end.
417.6

417.6 Volcanics. Greyish green, fine grained, distinctly foliated at 35-40° c.n. Medium epidotization, medium chloritization.
421.0

421.0 Mineralized Zone. 2-3% chalcopyrite, finely disseminated, in a highly chloritized, medium brecciated, basic volcanic rock. Quartz carbonate 20-25%.
425.0 - Mineralization increases to 3-4% chalcopyrite, 1-2% pyrite, associated with quartz carbonate and disseminate in this volcanic host rock. High "wet" type" chloritization, numerous striated slip planes. Probably a fault zone.
429.0 - Mineralized zone, as above, but the host is highly chloritized felsophyre, as at 405.0. Quartz carbonate increases to 30%;
440.0 - Mineralization decreases to trace. High brecciation of a medium sericitized and chloritized felsophyre; quartz carbonate 30%.
443.6 - Volcanics - Dark green, fine grained, massive, low chloritization; trace pyrite along fractures. No chalcopyrite.
445.0 - Mineralized zone. 2-3% chalcopyrite, trace pyrite, associated with quartz carbonate in highly brecciated basic volcanics; quartz carbonate 15%. Medium chloritization, high brown micaceous alteration.
446.7 - Mineralization decreases to trace chalcopyrite, 2-3% pyrite in brecciated volcanics, as above.
449.5

449.5 Felsite. Pale brown, siliceous, aphanitic. Similar to the above felsophyre, but no quartz phenocrysts.
452.3 - Highly brecciated zone. Quartz carbonate 45-50%; chloritized felsitic fragments 25%; highly chloritized, fine grained, basic fragments 25%. Trace pyrite and cpy.

DESCRIPTION

453.7 - Felsite, as at 449.5. Local minor brecciation. Quartz carbonate 5-7%.
467.8

467.8 Volcanics (gabbro?) Fine grained, dark green, massive, relatively fresh. First 6" foliated at 25° c.n. 1-2% quartz carbonate stringers, some weakly mineralized with pyrite and chalcopyrite.
478.0 - Shattered volcanics. Medium shatter. 2-3% quartz carbonate and hematite stringers. 0.5' lost core from 479.5 to 480.0.
480.0 - Volcanics (gabbro?) as at 467.8.
481.7 - Shattered Volcanics, as at 478.0. 1% chalcopyrite, 2-3% pyrite. Medium chloritization, medium brown micaceous alteration.
485.8

485.8 Rhyolite. Dark pinkish grey, siliceous, porphyritic, 60% subhedral, pale reddish and greenish feldspar phenocrysts in an aphanitic matrix. Size of phenocrysts ranges from less than 1 mm. to 6-7 mm. Local faint banding at 30-40° c.n. Note - this rock is identical to that encountered in bottom of N-17.
499.0 - Brecciated Rhyolite. Relatively low brecciation. 5-7% quartz carbonate.
505.0 - Brecciated Rhyolite, as above, but feldspar phenocrysts gradually become indistinct and disappear, and small quartz "eyes" (1-2 mm.) begin (5-6%).
518.1 - Basic Volcanics. Dark green, high chloritization and brown micaceous alteration, highly schistose at 20° c.n. 2-3% quartz carbonate.
520.5 - Rhyolite, as at 485.8, but relatively equigranular with only 5% indistinct quartz eyes. Becomes grey and porphyritic, as at 485.8, from 527.3 on. First 4 feet brecciated, with 10% quartz carbonate and slightly mineralized with negligible chalcopyrite and pyrite.
537.5

537.5 Mineralized Zone. 1-2% chalcopyrite, 1-2% pyrite, in a highly brecciated zone. Medium chloritization and sericitization of a felsitic host. Quartz carbonate 20%; 20% basic volcanic material.
540.0

540.0 Brecciated Volcanics. Quartz carbonate 15-20%. High chloritization, no mineralization.
541.5

541.5 Felsite, greyish brown, siliceous, faintly banded 40° c.n.
543.2

543.2 Mineralized Zone. 2-3% chalcopyrite, 1-2% pyrite in a highly chloritized, highly brecciated zone. Predominately basic volcanic material. Quartz carbonate 20%.
545.0

545.0 Rhyolite, same as at 485.8.
546.0

546.0 Medium brecciated zone. Core probably mixed up. The zone consists of 30% basic volcanic material; 20% altered granitic material; 30% felsite; 20% quartz carbonate. Mineralized from 549.0-551.0 with 1% chalcopyrite, 1-2% py.

DESCRIPTION

Medium chloritization of basic material, medium sericitization, of acidic constituents.
552.0

552.0 Granite. Pale, greyish pink, medium grained; low to medium chloritization and sericitization. Indistinct allotriomorphic texture. 30% quartz; 10% chloritized mafics; 60% pale pinkish brown feldspar. Minor highly sericitized patches mineralized with pyrite. The rock is cut by 1-2% fine quartz carbonate stringers. Note quartz carbonate-rich (60%) brecciated zones from 559.5-561.0 and from 568.0-568.7.
568.7 - Granite, as before, but quartz carbonate stringers decrease to less than 1%.
576.0

576.0 Brecciated Granite. Low, incipient bfecciation. The rock is cut by 5% quartz carbonate stringers which engulf small (less than 1") angular fragments of granite. Between these irregular quartz carbonate stringers the rock is massive.
593.0 - Granite, as at 552.0. Massive, cut by less than 1% quartz carbonate stringers.
598.3

598.3 Brecciated Granite. Medium brecciation, medium to high chloritization and sericitization. Trace pyrite and chalcopyrite. Quartz carbonate 20%.
604.0

604.0 Mineralized Zone. 2-3% finely disseminated chalcopyrite and pyrite in a medium brecciated zone. Quartz carbonate 15% (carbonate predominates); the host is a highly chlor'd, fine grained, basic rock.
613.5 - Quartz carbonate vein. Fractured, with minor fragment of chloritized material near upper contact. Trace sulphides along fracture planes.
614.7

614.7 Brecciated Granite. Low brecciation. Long (2-3 ft.) section of massive granite, interrupted by short (2"-4") highly brecciated zones in which small (less than 1/2") angular granitic fragments are embedded in a quartz carbonate matrix. Carbonate predominates. Total quartz carbonate 7-10%.
640.0 - Brecciated Granite. Brecciation increases to high. The granite is cut by a network of quartz carbonate stringers which separate granitic fragments into small (less than 1") isolated angular pieces. The veinlets themselves contain fine granitic fragments (ranging in size from 1 mm. to 20mm.). Locally agglomeratic appearance. This breccia differs from the typical Breton Zone breccia in that the fragments are much smaller, the quartz carbonate matrix is finer grained, and in that the carbonate predominates over the quartz. Notel% pale green, fine grained, mineral, showing platy habit, associated with quartz carbonate. Trace pyrite. Total quartz carbonate 40%.
685.6 - As above, but quartz carbonate increases to 50-60% and size of embedded granitic fragments decreases to less than 1/2" -- average: 10 mm.

DESCRIPTION

697.0

697.0 Agglomerate? A heterogeneous rock, consisting of 50-60% angular fragments in a soft, pale green and greyish chloritized(?), locally siliceous, fine grained matrix. The fragments range in size from less than 1 mm to 1-2 in. The rock is cut by 20% quartz carbonate stringers which crosscut this matrix, as well as the embedded fragments. The fragments consist of red felsophyric material (10-15%); fine grained basic material (30%); white vein quartz (5%); medium chloritization; trace pyrite and chalcopyrite. This rock type has not been encountered in the Breton Zone.

713.4

713.4 Shattered and brecciated, red felsophyre. High intensity. 15% highly chloritized gabbroic material; 10% quartz carb.

717.8

717.8 Brecciated Gabbro. 15% quartz carbonate (carbonate predominating) with embedded angular, chloritized, medium grained, gabbroic fragments 1/4"-2". Note felsophyre-rich section from 719.0-720.3.

723.7

723.7 Agglomerate-Breccia? Same as at 697.0. Highly chloritized from 726.5-727.5.

730.0

730.0 Shatter zone or Breccia? - Predominately highly chloritized basic (gabbroic material) highly shattered and cut by 10% quartz carbonate; 2-3% pyrite.

737.0

737.0 Agglomerate? As at 697.0, but fragments are predominately felsophyric; 5% chloritized basic fragments; 10% quartz carbonate; 40% pale green matrix.

740.1

740.1 Brecciated Felsophyre. The host is a red, acidic porphyrit relatively fresh rock with 10% quartz phenocrysts in a red, aphanitic matrix. Highly brecciated into small (1mm-1") angular fragments, embedded in a quartz carbonate matrix. Total quartz carbonate matrix. Total quartz carbonate 20% (predominately carbonate). Trace pyrite.

767.5

767.5 Highly brecciated zone. Predominately medium chloritized gabbroic and volcanic material; quartz carbonate 15%; red felsophyre 5%; trace pyrite and chalcopyrite. Minor hematite-stained patches. Includes an unbrecciated gabbroic section from 770.2-771.0, and a shattered, fine grained, volcanics section from 771.0-773.0. Note a carbonate-rich (80%) zone from 773.0-773.6, and a 1" pyrite patch at 774.0.

775.0

775.0 Breccia or Agglomerate? A predominately basic, highly fragmented rock, consisting of 60-70% angular and subrounded gabbroic and volcanic fragments in a soft, pale greyish, green, locally siliceous matrix. 5% fine (less than 1/4") felsophyric fragments. Cut by 10% quartz carbonate stringers. Size of fragments ranges from less than 1 mm.to several inches. 10% hematite staine and stringers.

DESCRIPTION

Trace pyrite. Some of the quartz carbonate stringers also carry tiny (1-2 mm.) fragments of basic rock. Locally shattered rather than agglomeratic appearance.
813.3

813.3 Shattered Volcanics. High shatter. 10% quartz carbonate, and hematite stringers, some carrying small (less than 1/4") volcanic fragments. Medium-high chloritization. Trace pyrite and chalcopyrite. 2-3% red felsophyric fragments.
826.5

826.5 Shatter Zone. High intensity. Predominately gabbroic host, high chlorite, high hematite-staining, minor epidote; 15% reddish felsitic material; quartz carbonate 10%.
839.0

839.0 Mineralized Zone. 1-2% pyrite, less than 0.5%chalcopyrite in a medium-highly chloritized, predominately basic shattered rock. Quartz carbonate 10%; medium hematite staining. Minor felsitic and rhyolitic fragments appear at 856.0, and the rock gradually becomes more siliceous, but still highly chloritized.
876.5 - Mineralization increases to 15-20% pyrite, 3-4% chalcopyrite; quartz carbonate 15%. Note 3" massive sulphides from 883.9-884.2. High chlorite.
890.8

890.8 Agglomerate - Shatter Zone? 60-70% angular fragments of basic (30%) and reddish acidic (30%) material in a fine grained, pale greyish green matrix. Size of fragments small (1 mm.-1 inch), cut by 10-15% quartz carbonate which separates the agglomeratic rock into small angular fragments (1/16"-1"). Note fragments of bostonite near end.
900.0

900.0 Bostonite Dyke? Pale grey porphyritic, acidic rock, consistingof 15% anhedral phenocrysts, elongated in direction of foliation 45° c.n. Size of phenocrysts 2-5 mm. This rock resembles the porphyritic "rhyolite" described at 485.8. Lower contact sharp at 55° c.n., epidotized and cut by a 1/2" quartz carbonate stringers carrying small blobs of chalcopyrite and 3-4% molybdenite.
902.2

902.2 Gabbro. Medium grained, massive, dark green, fresh. First four feet cut by 2-3% quartz carbonate and hematite stringers, minor epidote stringers.
913.4

913.4 End of Hole.

ASSAY RESULTS

Hole No. V-57

DESCRIPTION

CORE

Sample No.	Footage	Length	Cu.%	Ni.%	Ag.%
6293	25.0-30.0	5.0	0.15		
6294	55.0-60.0	5.0	0.08		
5	60.0-65.0	5.0	0.16		
6	65.0-70.0	5.0	0.03		
7	70.0-75.0	5.0	0.13		
8	75.0-80.0	5.0	0.04		
9	80.0-85.0	5.0	0.16		
6300	85.0-90.0	5.0	0.16		
1	90.0-95.0	5.0	0.06		
2	95.0-100.0	5.0	0.16		
3	100.0-105.0	5.0	0.08		
4	105.0-110.0	5.0	0.24	nil	
5	110.0-115.0	5.0	0.20	nil	
6	115.0-120.0	5.0	0.19		
7	120.0-125.0	5.0	0.16		
8	125.0-130.0	5.0	0.26		
9	130.0-135.0	5.0	0.21		
6310	135.0-140.0	5.0	0.12		
1	140.0-145.0	5.0	0.26		
2	145.0-150.0	5.0	0.16		
3	150.0-155.0	5.0	0.10		
4	155.0-160.0	5.0	0.28		
5	160.0-165.0	5.0	0.30		
6	165.0-170.0	5.0	0.11		
7	170.0-175.0	5.0	0.09		
8	175.0-180.0	5.0	0.11		
9	180.0-185.0	5.0	0.62		
6320	216.5-220.0	3.5	1.33		
1	220.0-225.0	5.0	0.23		
2	225.0-230.0	5.0	0.13		
3	230.0-235.0	5.0	0.08		
4	235.0-240.0	5.0	0.13		
5	240.0-245.0	5.0	0.10		
6	245.0-250.0	5.0	0.13		
7	250.0-255.0	5.0	0.10		
8	255.0-260.0	5.0	0.09		
9	260.0-265.0	5.0	0.15		
6334	265.0-270.0	5.0	0.12		
5	270.0-275.0	5.0	0.16		
6330	295.0-300.0	5.0	0.33		
6331	318.8-321.3	5.0	0.27		
2	321.3-323.8	5.0	0.56		
3	323.8-326.3	5.0	0.06		

ASSAY RESULTS

Hole No. V-57

DESCRIPTION

Cr O R-E

Sample No.	Footage	Length	Cu.%	Ni.%	Ag.%
6374	387.5-392.5	5.0	0.19		
5	392.5-397.5	5.0	0.19		
6	397.5-402.5	5.0	0.96		
7	402.5-407.5	5.0	0.57		
6386	425.0-430.0	5.0	0.32		
7	430.0-435.0	5.0	0.71		
8	435.0-440.0	5.0	0.37		
7723	440.0-446.8	6.8	0.27		
6643	523.2-524.2	1.0	0.27		
6644	537.4-539.5	2.1	0.88		
6645	542.8-545.4	2.6	0.78		
6646	548.6-551.2	2.6	0.57		
6647	601.5-602.8	1.3	1.27		
6648	606.4-607.7	1.3	1.05		
9	607.7-612.7	5.0	0.83		
6650	831.0-832.3	1.3	0.49		
6651	840.0-841.7	1.7	0.45		
2	841.7-845.0	3.3	0.36		
3	845.0-850.0	5.0	0.40		
6378	850.0-855.0	5.0	0.41		
9	855.0-860.0	5.0	0.26		
6380	860.0-865.0	5.0	0.20		
1	865.0-870.0	5.0	0.35	Tr.	
2	870.0-875.0	5.0	0.31	Tr.	
3	875.0-880.0	5.0	0.80		
4	880.0-885.0	5.0	1.22	0.01	
5	885.0-890.0	5.0	0.37		
AVERAGES:					
	55.0-185.0	130.0	0.17		
	216.5-275.0	58.5	0.20		
	318.8-326.3	15.0	0.30		
	387.5-407.5	20.0	0.48		
	425.0-440.0	15.0	0.47		
	606.4-612.7	6.3	0.88		
	840.0-890.0	50.0	0.47		
	875.0-885.0	10.0	1.01		

55M 3513C

DIAMOND DRILL LOG

PROPERTY: Tribag Mining Co. Limited HOLE NUMBER: V-59

LOCATION: Batchawana Bay, Ontario DIP TESTS

Latitude:	700S	Dip:	Footage	Reading	Corrected
Departure:	500E	Depth: 1045.0			
Elevation:		Commenced:			
Azimuth:		Finished:	Logged by:	M. Blecha	

SAMPLE NUMBER	DESCRIPTION
	0.0 Casing 12.0
	12.0 Gabbro - Fine-medium grained, dark green, medium chloritized; cut by 10% quartz carbonate stringers. Some with minor associated pyrite and molybdenite. Minor development of coarse biotite flakes. Note this is near a breccia zone! Core partly broken up. 15.0 - Gabbro, as above, massive, locally foliated at 50° c.n. Cut by 5% quartz stringers, some with associated epidote and minor pyrite. 20.0 - Gabbro, as above. Less than 1% hair-thin, quartz carbonate and epidote stringers. Trace pyrite along fractures. Gradually becoming very fine grained at 35.0. 35.0
	35.0 Gabbro or Volcanics. Very fine grained, dark green. No sharp contact observable. Minor epidote, and local irregular foliation, minor brown micaceous alteration. 47.5
	47.5 Mineralized Zone. 1% chalcopyrite (concentrated at 47.7); 1% finely disseminated pyrite. Low chloritization, epidotization of a volcanic host. 1-2% quartz carbonate stringers. 60.0
	60.0 Gabbro? or Volcanic? Non-uniform grain size, varies from very fine grained to fine-medium grained. 5% quartz carbonate stringers with accompanying development of coarse biotite flakes Low-medium chloritization. 66.0 - As above, but biotite absent. Trace disseminated pyrite. Minor local, irregular foliation. Note 1" finely brecciated zone at 71.8. 77.0
	77.0 Mineralized Zone. 1% chalcopyrite, 2-3% pyrite, associated with quartz carbonate stringers (15%), and finely disseminated. Note development of coarse biotite flakes. 80.0
	80.0 Gabbro - Fine-medium grained, fresh, massive, dark green. No biotite contact, minor epidote. 90.0 - Gabbro. 2-3% pyrite, trace chalcopyrite, associated with 5% quartz carbonate. Note minor coarse biotite.

DESCRIPTION

93.0

93.0 Gabbro - Fine-medium grained, fresh, massive, dark green. Note 4" of reddish feldspathic alteration at 99.5/ Minor epidote stringers, minor brown micaceous alteration.
103.0 - Gabbro, as above, but weakly mineralized with trace pyrite and chalcopyrite associated with quartz carbonate stringers (2-3%) and coarse biotite flakes (1%). Minor epidote, faint local, irregular foliation.
127.5 - Gabbro. Quartz carbonate decreases to less than 1%; minor local development of biotite; trace pyrite and molybdenite, associated with quartz. Generally massive and fresh.

156.5

156.5 Mineralized Zone. 4-5% pyrite, finely disseminated, and associated with quartz stringers; 2-3% chalcopyrite, in widely scattered blobs, associated with quartz carbonate. The host is a fine grained, dark green, basic rock (gabbro or volcanic?). Not brecciated, but cut by 5-7% quartz carbonate stringers. Minor biotite flakes.

167.0

167.0 Volcanics (andesite?) Fine grained to aphanitic, dark green, slightly chloritized, well foliated at 40-50° c.n. Medium epidote. Trace pyrite and chalcopyrite along fractures.
177.7 - Mineralized zone. 4-5% pyrite, less than 1% cpy. associated with quartz in a brecciated zone, containing 60-70% reddish felsitic fragments; 30% quartz carbonate.
179.0 - Volcanics, as at 167.0. Trace pyrite and chalcopyrite along fractures.

189.5

189.5 Mineralized zone. Less than 1% chalcopyrite, 1-2% pyrite in brecciated andesite. 10% epidote stringers, and patches; 10-15% reddish feldspathic alteration or felsitic fragments; 5-7% quartz carbonate. Locally well, but irregularly foliated at 50-90° c.n. Minor development of biotite flakes associated with quartz carbonate.

206.0

206.0 Gabbro - Dark green, medium grained, relatively fresh and massive. Note 3-5% pale green, subrounded and irregular 1-20 mm. zeolite-like inclusions (pseudophenocrysts or pseudoamygdules). Note 0.7' dykelet (65° c.n.) of grey, foliated, aphanitic material, cut by 3-4% fine quartz stringers. Minor pyrite and chalcopyrite, associated with quartz carbonate and biotite in a medium epidotized and chloritized zone from 218.7-220.4.

225.5

225.5 Volcanic (andesite?) Dark green, fine grained, to aphanitic, locally foliated at 50° c.n. Minor epidote, minor brown micaceous alteration.
227.0 - Mineralized Zone. 1% chalcopyrite, 1-2% pyrite, in a slightly brecciated epidotized and chloritized zone, predominately basic volcanics; 5% reddish felsitic fragments near end. Quartz carbonate less than 5%.

DESCRIPTION

229.5 - Volcanics, as at 225.5. Locally foliated at 60° c.n.; minor epidotization; minor chalcopyrite and pyrite associated with quartz carbonate at 232.5-233.0.

236.5

236.5 Mineralized Zone. 2-3% chalcopyrite, 1-2% pyrite, associated with quartz carbonate stringers, in weakly brecciated volcanics. Low chloritization, medium brown micaceous alteration, local foliation at 55-60° c.n.

238.7

238.7 Volcanics. Fine grained, brownish green (due to brown micaceous alteration) strongly foliated at 60° c.n. (tuffaceous banding?). Mineralized with less than 1% chalcopyrite, 1% pyrite, disseminated. Includes short (few inches) highly brecciated zone. Minor epidote. 5% quartz carbonate stringers. Note one 1" chalcopyrite blob associated with quartz carbonate at 265.2.

267.0

267.0 Felsophyre. Pale pinkish, brown, relatively fresh and massive. Locally faintly foliated. 10% anhedral quartz eyes (1-3 mm.) in an aphanitic matrix. Minor fracturing with trace pyrite along fracture planes. Becoming darker, slightly chloritized near end.

291.3

291.3 Volcanics (Andesite?) Dark green, very fine grained, massive, hard, fresh. Cut by less than 1% hematite-stained carbonate stringers.

295.0 - As above, but medium chloritized; minor pyrite and chalcopyrite at 297.5.

299.0 - As above, massive and fresh, becoming paler green at 301.5. Interrupted by a 0.6' zone of irregular quartz stringers, mineralized with 10% pyrite, trace chalcopyrite at 306.0. Minor quartz stringers, throughout. Some with coarse biotite crystals.

313.3

313.3 Mineralized Zone. 1% chalcopyrite, 1% pyrite, associated with quartz and disseminated, in volcanics as above. 5% quartz carbonate; minor coarse biotite crystals.

320.2

320.2 Felsophyre. Pale brownish pink, slightly sericitized, massive, locally faintly foliated at 20° c.n. 10% quartz "eyes" (1-2 mm.) in an aphanitic matrix. Cut by 3% quartz carbonate stringers. Minor local brecciation. Mineralized with 2-3% finely disseminated pyrite.

336.9

336.9 Mineralized Zone. 2% chalcopyrite; 1-2% pyrite, finely disseminated and associated with quartz carbonate. In fine grained, dark green-grey, basic rock (gabbro or volcanics?), minor local brecciation; 2-3% felsitic (or rhyolitic) fragments; 3% quartz carbonate; minor development of coarse biotite crystals. Relatively fresh.

347.5

347.5 Gabbro. Dark green, fine grained, massive and fresh. Cut by 2-3% quartz carbonate stringers; some stained red by hematite. Trace pyrite. Becoming slightly chloritized near end.

	DESCRIPTION
	365.5
365.5	Shatter Zone. High shattering, high "wet-type" chloritization. Quartz carbonate 5%. Core badly broken up from 370.0-373.5. Probably a gabbroic host.
	373.5 - Shattering decreases to medium-high, chloritization decreases, but quartz carbonate 10%. Mineralized with 2% chalcopyrite , 1% pyrite, associated with quartz carbonate.
	379.0 - Shattering decreases to low. Host is a fine grained, relatively fresh gabbro. 2-3% fine quartz carbonate stringers, some stained red by hematite.
	389.0 - High shatter. 10% quartz carbonate; trace pyrite and chalcopyrite. High chloritization.
	392.5 - Low shatter, as at 379.0.
	399.3
399.3	Shatter zone continues, but host is a felsitic acidic rock. Highly chloritized; quartz carbonate 15%; high shatter. Note blobs of chalcopyrite at 400.5.
	406.0 - Low shatter. 3-4% quartz carbonate stringers. Felsophyre host, fine grained, slightly sericitized, faintly foliated at 30° c.n., 5-7% quartz eyes (1-2 mm.) in an aphanitic matrix. Trace pyrite.
	415.0
415.0	Shatter Zone. Medium shatter. Fine grained, green, basic volcanic host. 5% carbonate and hematite stringers. Low chloritization.
	423.7
423.7	Rhyolite. Pinkish brown, porphyritic, well banded at 40° c.n. 50% feldspar phenocrysts (1-5 mm.), elongated, parallel to banding. Low sericitization (same as in bottom of N-17). Trace disseminated pyrite. Minor fracturing. Note highly sericitized fracture (70° c.n.) at 429.0. Becoming brecciated, cut by quartz carbonate stringers and chloritized near end.
	434.8
434.8	Granite. Medium grained, indistinct texture, medium sericitized.
	435.5
435.5	Zone of high earthy alteration and chloritization. Granite host, core partly disintegrated. Cut by 5% quartz carbonate stringers, mostly at 70-50° c.n.
	439.3
439.3	Granite. Greyish pink; low-medium chloritization and sericitization. Faintly foliated at 30° c.n., medium grained texture, partly obliterated. 1-2% quartz carbonate stringers. Interrupted by a 10' quartz carbonate-rich, highly altered zone at 458.3-459.3, mineralized with 1-2% pyrite, trace chalcopyrite.
	460.0 - Granite - Chloritization and sericitization increases to medium-high. Rock is medium fractured, locally irregularly foliated. Trace pyrite and chalcopyrite associated with quartz carbonate. Quartz carbonate 10%.
	466.5
466.5	Rhyolite. Same as at 423.7. Banded at 45° c.n., cut by 5% quartz carbonate stringers.
	468.5 - Rhyolite, as above, but highly sericitized; last 2 feet cut by 45% quartz carbonate.

	DESCRIPTION
	473.0
473.0	Granite. Greyish pink, medium sericitized and chloritized. Cut by an irregular network of (5%) quartz carbonate stringers (1-20 mm. thick). This could be regarded as incipient brecciation.
	476.0 - Granite, as above, but alteration high.
	482.8 - Granite, as above, alteration decreases to low to medium. Trace pyrite and chalcopyrite, associated with quartz carbonate.
	499.5
499.5	Brecciated Granite, as before, but quartz carbonate stringers increase in width to several inches, and in amount to 15-20%. Medium sericitization and earthy alteration. Trace pyrite and chalcopyrite. Good Breton Zone-type breccia. Note 0.5 trap (45° c.n.) at 519.0, and minor trap fragments at 524.0.
	525.0
525.0	Mineralized Zone. 1-2% chalcopyrite, 1-2% pyrite, associated with quartz carbonate in a brecciated granite. High Breton Zone-type brecciation, high sericitization and earthy alteration; quartz carbonate 25%.
	541.0 - 1-2% chalcopyrite, 3-4% disseminated pyrite. The host is a dark green, medium-highly chloritized, well foliated; medium-highly brecciated basic, volcanic rock. Quartz carbonate 15%.
	547.5 - Mineralized zone as at 525.0.
	551.2 -
551.2	Brecciated Granite. Medium-high brecciation, medium sericitization and earthy alteration. Note 1.5' coarsely xalline white calcite vein, with minor fluorite and 5% granitic fragments from 564.8-566.3.
	566.8
566.8	Agglomerate. 30-40% small (less than 1/4") angular and sub-rounded gfanitic and felsitic(?) fragments embedded in a quartz carbonate matrix.
	567.7
567.7	Brecciated Granite. Medium brecciation. Quartz carbonate decreases to 7-10%. Low-medium chloritization. Trace pyrite and chalcopyrite. Note calcite-rich zone (50%) from 581.3 to 583.0.
	587.0 - Brecciated Zone. Highly chloritized, fine grained basic volcanic(?) host. 5-7% quartz carbonate; 1-2% sulphide
	588.3 - Brecciated Granite, as before. Quartz carbonate 15%. Note agglomeratic phases (as at 566.8) at 589.5-590.0.
	590.0 - Granite, as at 473.0. Low-medium chloritization; relatively massive, but cut by 5% fine quartz carbonate stringers. Note short quartz carbonate rich brecciated zones at 603.5-605.0, 618.0-620.0, accompanied by higher alteration This zone could be regarded as zone of incipient brecciation. Note irregular 1" agglomeratic layer (80° c.n.) at 621.0 to 622.0.
	623.0
623.0	Trap. Dark green, fine grained, medium chloritized, slightly shattered. Upper contact sharp at 50° c.n., lower contact lost.

	DESCRIPTION
	624.8
624.8	Granite. Medium chloritized near upper contact, becoming low-medium sericitized and carbonatized, greenish pink, medium grained, massive. Cut by 3-4% quartz carbonate stringers.
	641.0 - Trap, as at 623.0. Brecciated upper contact, with 15% quartz carbonate. Mineralized with 7-8% disseminated pyrite.
	642.5 - Granite, as at 624.8. 3-4% quartz carbonate; trace pyrite, chalcopyrite and molybdenite.
	666.2
666.2	Mineralized Zone. 2-3% chalcopyrite, 1-2% pyrite in a highly brecciated zone. Felsitic material 20%; granitic 20%; fine grained basic 5%; quartz carbonate 50%.
	668.7
668.7	Granite, as before. 3-5% quartz carbonate stringers, some with traces of pyrite and chalcopyrite and molybdenite. Locally fractured. Low-medium sericitized and chlori :ed and carbonatized. Note minor brecciated zone at 692.5-693.5, and 719.0-720.0.
	721.7 - Trap, as at 623.0. Slightly shattered, medium chloritized. 5-7% disseminated pyrite; 5% carbonate stringer Sharp, irregular contacts.
	726.5
726.5	Granite. Pink, medium grained, slightly fractured. Low chloritization, cut by 2-3% quartz carbonate stringers. Note several irregular quartz-poor schlieren(?). Note 0.7' trap at 741.7. Trace pyrite.
	750.0 - As above, quartz carbonate decreases to less than 1%.
	772.0
772.0	Medium Brecciated Contact Zone. A heterogeneous zone consisting of 30% fine grained, medium-high chloritized trap dykelets, irregularly intruding the granite. Contacts are sharp, but irregular, commonly brecciated, with granitic fragments embedded in the traps. The granitic masses contain several irregular quartz-poor phases. The entire o zone is fractured and invaded by 10% quartz carbonate stringers, veinlets and irregular patches. Granite is relatively fresh, pink, locally chloritized and slightly carbonatized, minor epidote, trace pyrite and trace molybdenite. Sulphides mostly confined to the trap material.
	817.0
817.0	Brecciated Granite Medium brecciation, low sericitization. Quartz carbonate 15%. Good Breton-Zone-type breccia.
	836.5
836.5	Agglomerate? Grey, siliceous rock, consisting of 50-60% indistinct angular and subrounded fragments (less than 1/4") of brown, altered siliceous material in an aphanitic grey, siliceous matrix. Cut by 7-10% quartz carbonate stringers, and mineralized throughout with less than 1% chalcopyrite, 1% pyrite.
	869.7
869.7	Gabbro - Brecciated. Not a typical Breton-type breccia,, but rather East-Breccia type fragmentation. The host is fine-medium grained, medium chloritized, dark green, locally, highly stained by hematite, and broken into angular fragments

	DESCRIPTION
	(less than 1") which are apparently not embedded in any matrix, but are separated by fine quartz carbonate stringers. Total quartz carbonate 10%; minor epidote. Mineralized throughout with less than 1% chalcopyrite, 1% pyrite.
	910.0 - Zone of fragmentation, and alteration. Host basic, but unrecognizable - probably gabbro.
	915.0 - As above, but strongly foliated at 80° c.n. Core partly broken up. High chlorite, high hematite staining.
	920.0 - High fragmentation, high chlorite. 3-4% quartz carbonate stringers.
	925.0 - Agglomerate? Same as described at 836.5, but fragments are gabbroic. Probably shattered gabbro.
	930.0 - Fragmented gabbro, as at 869.7. High chlorite, high hematite staining; quartz carbonate 3-5%.
	940.0 - High shattering and fragmentation. High chlorite and hematite staining. Quartz carbonate 3%; locally agglomeratic appearance.
	948.0 - Shattering and fragmentation decreases to low; chlorite medium; quartz carbonate 1-2%. The zone contains relatively massive, coarse grained, amphibolitic phases.
	971.5
971.5	Gabbro-Amphibolite. Dark green, coarse grained. Amphibole habit not acicular, but short, prismatic. Medium chloritization. Low shatter. 3-5% quartz carbonate and hematite stringers. Gabbroic texture locally evident. Local high hematite staining.
	985.0 - Sheared Zone. Strong shearing at 50° c.n. High chlorite and pale green (earthy) alteration. 5% quartz carbonate.
	987.0 - Gabbro-Amphibolite, as before. Minor local brecciation.
	995.0
995.0	Mineralized Zone. 3% chalcopyrite, 1-2% pyrite, associated with quartz carbonate in a highly chloritized, highly brecciated zone. Quartz carbonate 5-7%; basic (gabbroic?) host.
	997.5
997.5	Highly brecciated zone. High chloritization. Predominately basic (gabbroic?) material; minor brown felsitic fragments (less than 1/4"); quartz carbonate 5-7%; local agglomerate appearance. Minor pyrite and chalcopyrite.
	1002.0
1002.0	Gabbro-Amphibolite, as before, relatively massive. 1-2% quartz carbonate and hematite stringers. Medium chloritization; minor brown hematite staining. Locally shattered and fragmented.
	1015.0
1015.0	Shatter Zone or Agglomerate(?) 50% angular fragments of chloritized basic material; 10% reddish felsitic fragments in a pale green, sericitized matrix. Highly chloritized, throughout. Trace pyrite and chalcopyrite. Medium hematite staining. 1-2% disseminated pyrite throughout. Minor molybdenite near end. Minor development of coarse biotite flakes. Quartz carbonate 5%. The zone contains 30% relatively massive, undisturbed amphibolitic phases.

Hole No. V-59

DESCRIPTION

1038.0

1038.0 Gabbro-Amphibolite. Relatively massive, low-medium chloritized, cut by 2-3% quartz carbonate stringers. Trace disseminated pyrite.

1041.3

1041.3 Zone of fragmentation. 30% red felsitic fragments aligned at 20° c.n. to give banded appearance. High chloritization. Trace pyrite.

1043.5

1043.5 Gabbro? Fine grained, dark green, low chloritization. Cut by 5% hematite stringers, and minor chalcopyrite-filled fractures.

1045.0

1045.0 End of Hole.

ASSAY RESULTS

Hole No. V-59

DESCRIPTION

CORE

Sample No.	Footage	Length	Cu.%	Au.%	Ag.%
6479	47.5-50.0	5.0	0.48		
6480	50.0-55.0	5.0	0.20		
1	55.0-57.5	2.5	0.10		
6482	74.0-76.5	2.5	0.05		
3	76.5-79.0	2.5	0.27		
4	79.0-81.5	2.5	0.12		
6485	90.0-92.5	2.5	0.21		
6486	102.6-103.6	1.0	0.17		
7	103.6-104.6	1.0	0.04		
8	104.6-105.5	0.9	0.19		
9	105.5-107.5	2.0	0.06		
6490	107.5-113.0	5.5	0.38		
1	113.0-114.5	1.5	0.04		
2	114.5-115.5	1.0	0.06		
3	115.5-117.5	2.0	0.04		
4	117.5-119.5	2.0	0.27		
5	119.5-122.6	3.1	0.29		
6496	141.6-145.0	3.4	0.35		
6497	156.3-160.6	4.3	0.83		
8	160.6-166.0	5.4	0.27		
9	166.0-167.2	1.2	1.93		
6500	167.2-172.2	5.0	0.17		
1	172.2-177.4	5.2	0.10		
2	177.4-179.4	2.0	0.89		
3	179.4-184.2	4.8	0.17		
4	184.2-188.9	4.7	0.16		
5	188.9-191.8	2.9	0.25		
6	191.8-193.7	1.9	0.53		
7	193.7-198.9	5.2	0.39		
6508	202.6-206.0	3.4	1.02		
6509	207.0-208.0	1.0	0.11		
6510	218.7-220.4	1.7	0.25		
6511	Creek Water Sample				
6512	221.4-222.0	0.6	0.07		
6513	225.5-229.7	4.2	0.25		

ASSAY RESULTS

Hole No. V-59

DESCRIPTION

C O R E

Sample No.	Footage	Length	Cu.%	Au.%	Ag.%
6514	232.4-233.2	0.8	0.84		
6515	236.5-238.7	2.2	0.91		
6	238.7-243.7	5.0	0.36		
7	243.7-246.9	3.2	0.26		
8	246.9-253.5	6.6	0.07		
9	253.5-256.1	2.6	0.96		
6540	256.1-257.4	1.3	0.33		
1	257.4-261.1	3.7	0.89		
6520	261.1-263.5	2.4	0.14		
1	263.5-264.7	1.2	0.46		
2	264.7-265.7	1.0	1.42		
6526	305.0-306.0	1.0	0.30		
7	306.0-306.6	0.6	0.06		
8	306.6-307.2	0.6	0.30		
6529	314.1-315.0	0.9	0.12		
6530	315.0-316.4	1.4	0.11		
1	316.4-318.9	2.5	0.30		
2	318.9-320.0	1.1	0.68		
3	320.0-322.5	2.5	0.45		
4	322.5-325.0	2.5	0.12		
6654	336.6-338.2	1.6	0.45		
6662	338.2-340.0	1.8	0.13		
6655	340.0-343.0	3.0	0.78		
6	343.0-347.6	4.6	0.47		
6535	363.0-365.5	2.5	0.06		
6	365.5-370.0	4.5	0.10		
7	370.0-373.5	3.5	0.13		
8	373.5-376.0	3.5	0.53		
9	376.0-379.0	3.0	0.41		
6542	389.0-392.5	3.5	0.18		
6543	422.7-423.6	0.9	0.81		
6544	453.7-454.4	0.7	0.20		
6545	471.7-473.6	1.9	0.06		

ASSAY RESULTS

Hole No. V-59

DESCRIPTION

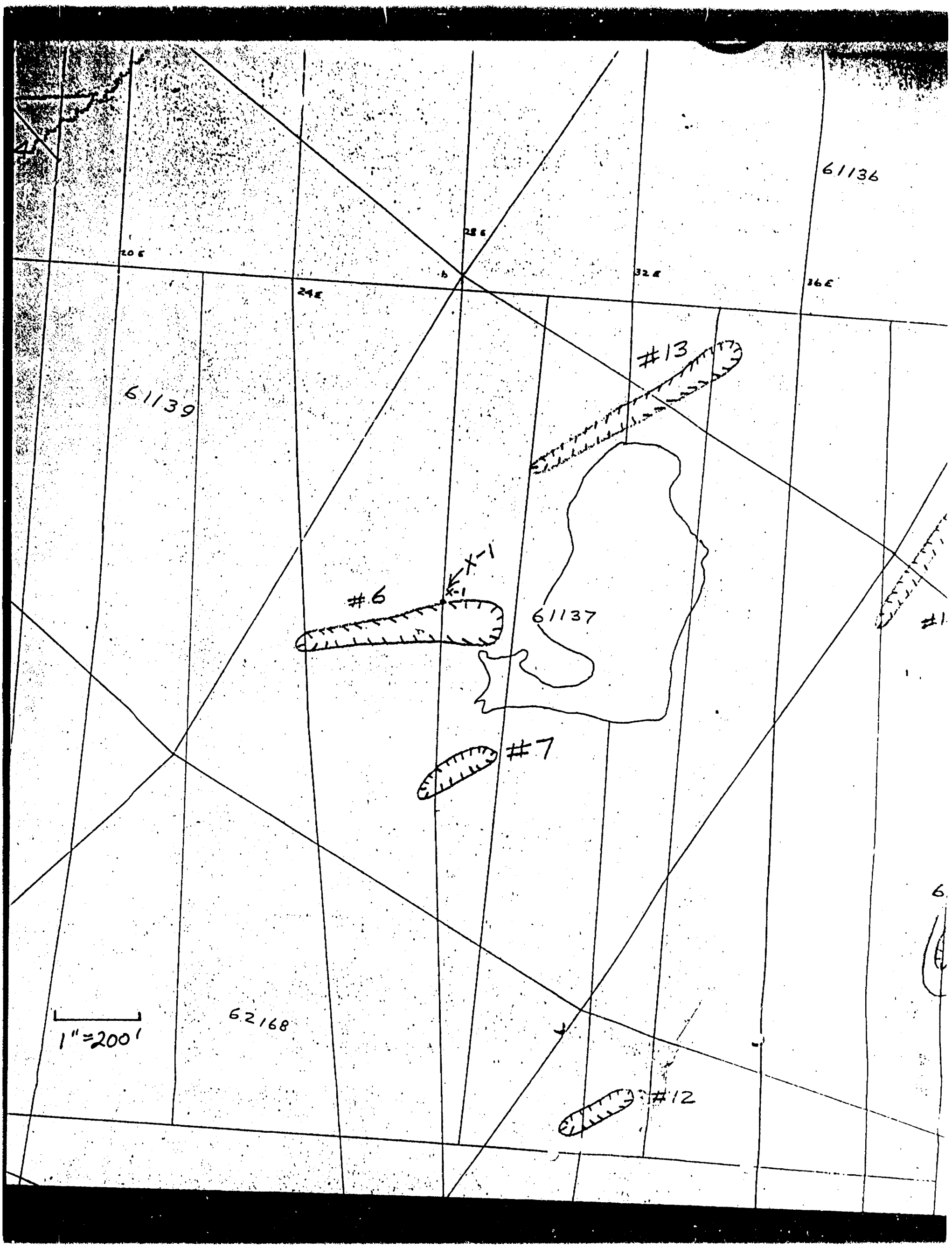
CORE

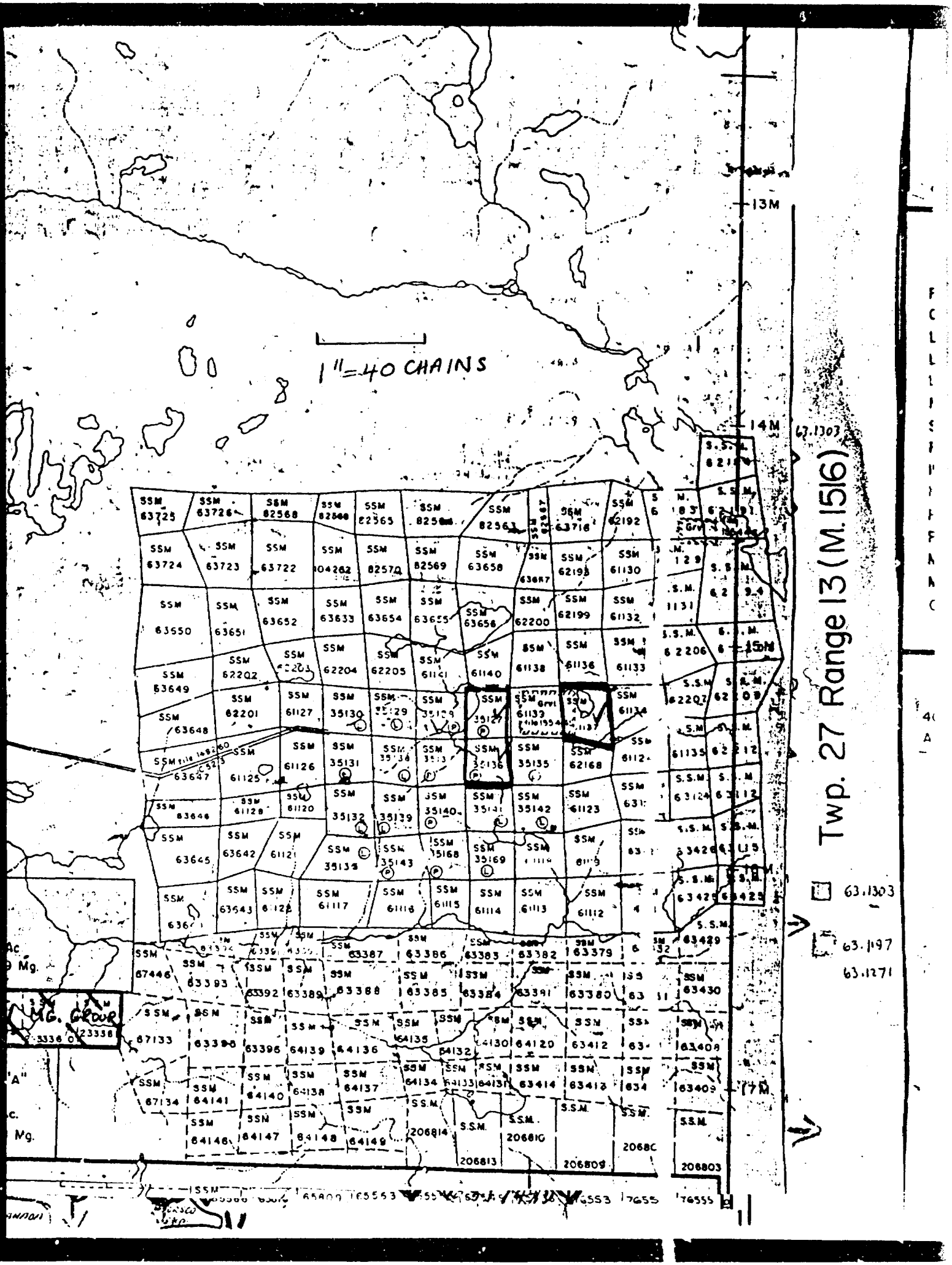
Sample No.	Footage	Length	MoS2	Cu.%	Au.%	Ag.%
6546	501.8-503.5	1.7		0.11		
6547	520.7-521.5	0.8		0.15		
6548	524.0-527.0	3.0		0.22		
9	527.0-531.0	4.5		0.51		
6550	531.5-535.0	4.5		0.43		
6589	535.0-541.0	6.0		0.16		
6551	541.0-545.0	4.0		0.26		
2	545.0-549.0	4.0		0.57		
6657	550.0-551.2	1.2		0.45		
6658	665.1-668.7	2.6		0.86		
6714	845.0-847.0	2.0		0.65		
5	847.0-852.0	5.0		0.27		
6	852.0-857.0	5.0		0.26		
7	857.0-862.0	5.0		0.29		
8	862.0-865.0	3.0		0.45		
9	865.0-869.0	4.0		0.84		
6720	869.0-874.0	5.0		0.23		
1	874.0-880.0	6.0		0.22		
2	880.0-885.0	5.0		0.20		
3	885.0-890.0	5.0		0.33		
4	890.0-895.0	5.0		0.53		
5	895.0-900.0	5.0		0.46		
6	900.0-905.0	5.0		0.07		
7	905.0-910.0	5.0		0.12		
6728	925.0-930.0	5.0		0.17		
6729	945.0-948.0	3.0	0.27	0.11		
6730	965.0-969.0	4.0		0.16		
6731	995.0-997.0	2.5		1.09		

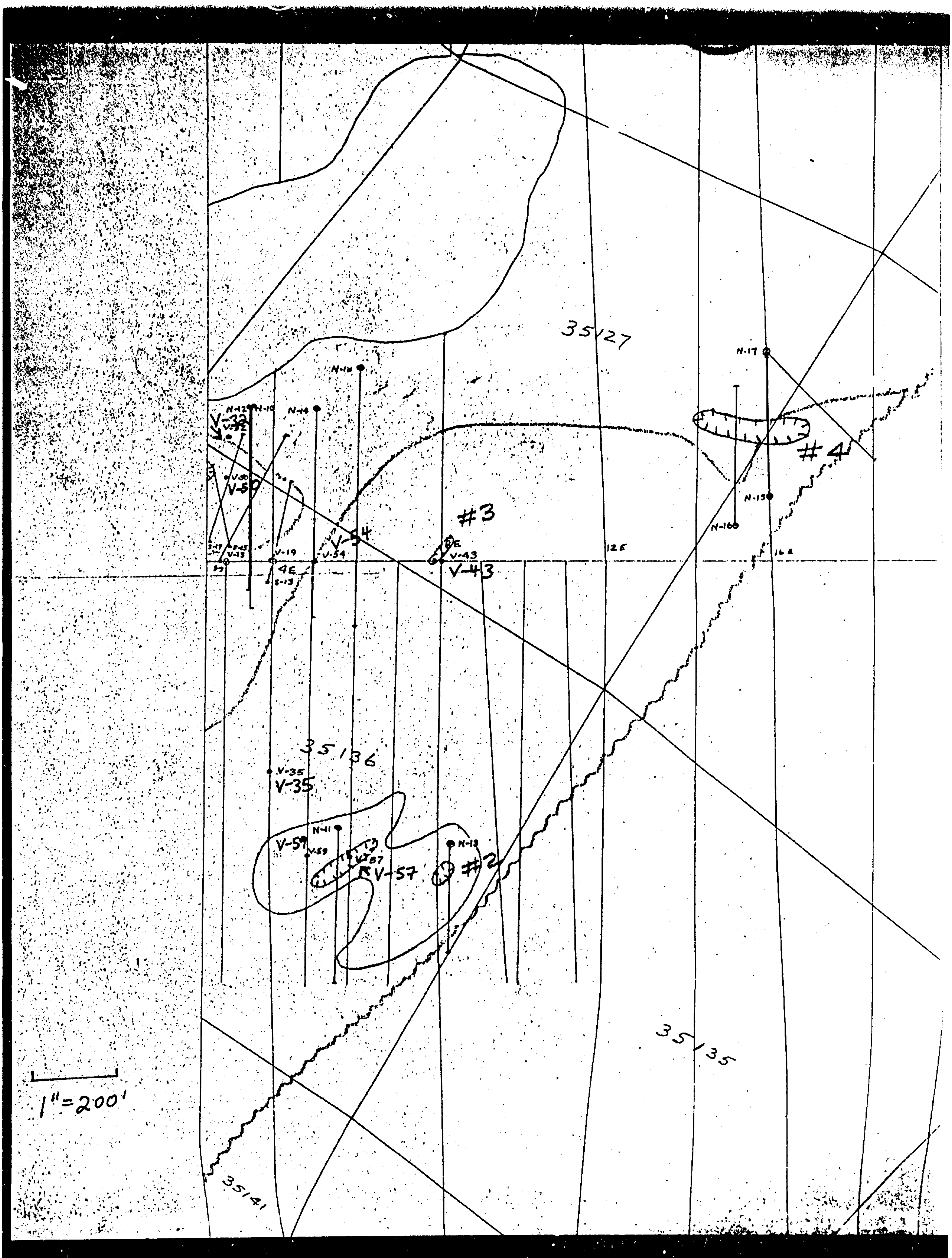
ASSAY RESULTS

DESCRIPTION

AVERAGES:		Cu.%
47.5-57.5	12.5	0.29
74.0-81.5	7.5	0.15
102.6-122.6	20.0	0.21
156.3-198.9	42.6	0.37
236.5-265.7	29.2	0.47
315.0-325.0	10.0	0.31
336.6-347.6	11.0	0.50
363.0-379.0	17.0	0.24
524.0-549.0	26.0	0.37
845.0-910.0	65.0	0.33


61136
20 E
28 E
24 E
32 E
36 E
#13
61139
X-1
#6
61137
#7
#12
1"=200'
62168


1" = 40 CHAINS
13M
14M
15M
16M
17M
Twp. 27 Range 13 (M.1516)
63.1303
63.1197
63.1271
MG. GROVE


35/127
N-17
N-18
N-12
N-10
N-14
V-32
V-50
#4
N-15
N-160
#3
V-54
V-19
V-13
4E
V-43
126
35/136
V-35
N-41
V-59
V-57
N-13
#2
35/135
1"=200'
35/141