REPORT ON THE

TIMMINS, ONTARIO, PROPERTY

OF THE

TIMGINN SYNDICATE

-- SECOND DRILLING PROGRAMME RESULTS --

Toronto, Canada

October 31, 1994

Robert M. Ginn, P.Eng.

Project Manager

1. INTRODUCTION

The Timginn Syndicate (Timginn) was formed in January, 1993, followed by a second Syndicate in November, 1993. As allowed by the Prospecting Syndicate financing provisions of the Ontario Securities Commission and the Canada Income Tax Act, the maximum allowable amount of $250,000 was raised by each syndicate and has been expended in doing work to explore a property (mining rights only) comprised of 520 acres at Timmins, Ontario, owned or under option to **Canadian Mining and Finance Co. Ltd.** (CMF). Under the agreement with CMF, Robert Ginn can earn a 55% interest in CMF's property by spending $1.5 million in doing work by February 27, 1996, and members of the Syndicate can share in that interest in proportion to their contribution to the total funding. The calculation of interest will take into account that certain units have been retained by Robert Ginn in recognition of the founding of the project and the Syndicate, and that additional funds have been provided through the Ontario Minerals Incentive Programme (OMIP), such contribution to be credited among Syndicate members in proportion to their interest.

The first Syndicate programme was completed by June, 1993, and has been reviewed in a report dated July 23, 1993. That report includes historical and technical background information which will not be repeated here. Except for a brief statement of the concept and thrust of the Timginn project, this report will focus on the results of work completed to date and recommendations for further work.

2. THE CONCEPT OF THE TIMGINN PROJECT

The thrust of the Timginn project is to investigate the area lying to the northwest of much of the old Hollinger Mine property which produced about 20 million ounces of gold over a period of about 75 years. The mineralization was largely restricted to a series of volcanic rocks about 400 metres in thickness, plunging eastward across the McIntyre and Coniaurum properties. It is clear that the Central Formation is the favoured host for gold mineralization, both at the three mines noted here and at those on the southern limb of the Porcupine Syncline from the Dome Mine on the east to the Delnite Mine on the west. Due to an anticlinal fold on the northern side of the Hollinger property, the same series of favourable volcanic rocks was indicated to underlie Gillies Lake and the original Town of Timmins on the Timginn Property.

Ore is not present in all rocks of the Central Formation, but is restricted to areas of structural disturbance resulting from faulting and/or intrusion of porphyry bodies, and is characterized by carbonate alteration. The first goal of the project was to

a) determine whether the property was underlain by the Central Formation, and if so

b) whether they are structurally disturbed, and if so

c) whether they are hydrothermally altered by solutions which could transport and deposit gold.

Because the bedrock in most of the area of interest is covered by glacial soils and by the streets and buildings of Timmins, the required information had to be obtained by drilling inclined holes beneath the city. The work was carried out during the winter season because the frozen, snow-covered ground was protected from damage by the equipment, and because any noise resulting from the drill and pump engines was muffled by snow and well sealed buildings.

The first programme involved drilling four long diamond drill holes beneath the core of the Town of Timmins from the abandoned right-of-way of the Ontario Northland Railway (ONR). These holes affirmed the presence of the favourable series of lavas, and indicated that two or more significant faults have displaced the rocks. No economic values of gold were obtained, but on the basis of published geochemical data and the experience of the Project Manager, the composition and alteration of the rocks was sufficiently encouraging that the second drill programme was undertaken. As more literature research was completed, there developed a particular appreciation for the contact between the top of the 63 flow and the bottom of the 95 flow, the latter being the bottom flow of the Central Formation. It is estimated that about three million ounces of gold were produced from veins along the 63/95 contact on the Hollinger and McIntyre properties south of the Timginn property, and the Moneta Porcupine production of 150,000 ounces came from the same horizon. In each case the grade of ore was higher than the camp average of .3 ounces gold per ton. Accordingly this contact became a focus of the second drilling programme.

Bradley Bros. Limited were contracted to conduct the drilling. Because the area to be tested by the second programme could not be cost-effectively tested from the ONR right-of-way, agreement was reached with the Mattagami Region Conservation Authority under which drilling was conducted from Gillies Lake and, if necessary, could be conducted from the Gillies Lake parkland. Both programmes were completed with no damage to the environment or inconvenience to the citizens of Timmins.

In preparation for the second drilling programme Excalibur International Consultants Ltd. were retained to obtain and reprocess airborne magnetic tapes from government files, providing a detailed map which might help to identify subtle magnetic features which could reflect porphyry bodies or fault dislocations which would constitute drill targets. Although this map may have value in the future as more knowledge is developed from drilling, it did not serve an immediate purpose. A single copy of the map was provide by Excalibur, and there appears to be no merit in providing more copies at this time.

3. THE SECOND DRILLING PROGRAMME

The second drilling programme was mobilized at the end of November, 1993. A total of 14 diamond drill holes were drilled throughout the programme. Table 1 presents significant information on these holes.

Table 1

Hole #	Date Started	Date Completed	Length, m	Vert. Depth of Alluvium (bedrock elevation)
005	1/12/93	4/12/93	150.0 m	20.0 m (293.2 m)
006	4/12/93	4/12/93	56.0 m	18.3 m (293.2 m)
007	4/12/93	6/12/93	302.0 m	16.5 m (295.0 m)
008	6/12/93	8/12/93	250.0 m	20.0 m (293.5 m)
009	9/12/93	12/12/93	350.0 m	11.0 m (302.2 m)
010	12/01/94	20/01/94	539.0 m	17.5 m (290.5 m)
011	20/01/94	24/01/94	377.0 m	13.5 m (294.5 m)
012	25/01/94	29/01/94	332.0 m	24.0 m (284.0 m)
013	29/01/94	01/02/94	350.0 m	20.0 m (288.0 m)
014	02/02/94	04/02/94	182.0 m	17.3 m (290.7 m)
015	05/02/94	08/02/94	305.0 m	16.4 m (295.1 m)
016	05/04/94	06/04/94	119.0 m	18.0 m (295.4 m)
017	07/04/94	09/04/94	275.0 m	18.7 m (294.7 m)
018	09/04/94	11/04/94	239.0 m	17.8 m (295.6 m)
		Total distance drilled	3826.0 metres	(2718.0 m in 1994)

The holes were drilled to produce BQ core, and all were cemented to a depth of 8 - 10 metres below ledge. The core is stored in rented facilities on the Royal Oak Mines property. Much of the logging of the core was done at Royal Oak; holes 16 to 18 were logged at Bradley Bros.' office/shop site.

Figure 1

Timginn

Timginn

17.8 g/t
5.8 m

Scale
50 0 50 100
Metres

Gillies Lake Fault

V10B
V8
MA-1
55
95
63
Canadel
Hollinger Exploration
Fifth Avenue Fault
stope
O.N.R. Station
General Limit of
Hollinger No. 26.
Timginn
Timginn

KEY

- Mine Shaft
- 1000 N / 1500 E O.N.R. Station
- D.D.H. number
- Fault
- Flow Contact

GOLD CENTER FM
VIPOND FM
CENTRAL FM
NORTHERN FM

- MASSIVE BASALT
- PILLOW BASALT
- PILLOW BRECCIA
- INTERFLOW SEDIMENT
- INTRUSION BRECCIA
- POLYGONITE
- HYALO-TUFF BRECCIA ("chicken feed")
- AMYGDALOIDAL
- SPHERULITIC

Hollinger Central Ore Zone

McIntyre Ore Zones

TIMGINN PROJECT

TIMMINS ONTARIO

SURFACE PLAN

October 194 | Robert M. Ginn, P.Eng.

The location of the holes and the current interpretation of the geology of the property is presented on Figure 1 accompanying this report. To focus on the geology of the property and to avoid a complicated drawing, no topographic features are shown other than the location of the ONR station. An arbitrary co-ordinate system has been established, related to the ONR railway station. The northeastern corner of the station roof has the co-ordinates of 1000 m North and -1500 m East. The origin of the grid is 1000 metres to the south and 1500 metres to the east of that corner of the roof.

The legend or key of the map has been taken from a paper by Mason and Melnick on the geology of the Hollinger-McIntyre mines area, published in the Proceedings of the Gold '86 Symposium, Ontario Geological Survey Special Volume 2. The lowermost volcanic unit identified in the Timginn drilling is the 63 flow, occurring below the lavas of the Central Formation. As noted in previous Timginn reports, the contact between the 63 flow and the overlying 95 flow is host to the Moneta vein south of holes 1 and 8, and the Hollinger 99 vein and McIntyre 5, 3, and 25 veins to the east of the Canadel shaft area. These veins have collectively produced over three million ounces of gold at an average grade of 0.43 ounces per ton in areas of structural disturbance. As stated earlier in this report, the second drilling programme was designed to explore this horizon in particular, and also to verify and test the Fifth Avenue Fault and the Gillies Lake Fault which were postulated as a result of the first first Timginn programme.

Holes 5 and 6 were drilled from the collar of hole 2 at the old Northern Brewery site at the ONR overpass at Algonquin Boulevard, and holes 16, 17 and 18 from a parking lot northeast of Sunny's Restaurant to test the 63/95 flows. As had been determined in holes 1 and 8, the contact is weakly mineralized with pyritic ashy flow-top material. No gold values of economic interest were obtained, and no additional work is condsidered to be warranted at this time. However, holes 7, 15, 17 and 18 were drilled to verify and test the Fifth Avenue Fault. The presence of the structure was confirmed, with several intersections of over 20,000 ppm zinc and other elements of interest. It is likely that a number of east-west veins which were mined by Hollinger to the east of the Canadel claim occupy the newly identified fault structure, and additional work is planned to further test it east of hole 18, and particularly in the area in which the fault interrupts the 63/95 flow contact. Our interpretation of the geology of the area is that the Canadel "ore" occurred at the intersection of the 63/95 flow contact and the Fifth Avenue Fault.

Holes 9 and 4 were drilled from the ONR lands south of Gillies Lake, identifying a porphyry body which appears to plunge and be larger to the northeast. These holes cut 63 flow material until they intersected the Gillies Lake Fault and the central section of the Central Formation, likely the 55 flow. Based on flow thicknesses at the Hollinger Mine, about 100 metres of the 55 and 95 flows are missing at from these drill holes. As reported in 1993, hole 4 intersected the V-8 flow above the Central Formation. The V-8 and the MA-1 flows are easy to identify, and serve as marker horizons in the area. Holes 12 and 13, drilled to the north and south respectively from Gillies Lake, provided very long section of the volcanic succession,

from the marker spherulitic flows at the north to the fragmental MA-1 horizon beneath the middle of Gillies Lake and the Gillies Lake Fault at the south.

Hole 14 was drilled across Gillies Lake, cutting a faulted block of MA-1. A series of strong faults intersected by holes 4, 12, 13 and 14 are expressed by sheared and blocky core with quartz stringers and veins and with ankeritic lavas which can not at this time be identified as to their stratigraphic position. The apparent alignment of these faults is NW-SE, explaining the dislocation of several marker flows.

Holes 11 and 10 were collared in the 63 flow and intersected porphyry and branches of the Gillies Lake Fault before cutting the 95, 55 and MA-1 flows. The flows above (ie to the north of) the MA-1 horizon are pillowed and uniform andesites of the upper Central Formation.

4. CORE SAMPLING PROGRAMME

Core was logged as to rock types and visible mineralization. All significant quartz veins and sulphide mineralization were split for gold analysis, and samples were taken methodically every 10 metres for a suite of pathfinder elements as follows: Au, Ag, As, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, K, Li, La, Mo, Mg, Na, Ni, Pb, Sb, Sr, W, Zn. The sample interval is half that used in the first drilling programme, boron was added to the suite of elements, and more sensitive procedures were followed for bismuth and antimony. A total of 754 samples were assayed for gold during the second Timginn Programme; 627 of these were performed during the OMIP period of the work (1994). Of these 366 samples were analysed for pathfinder elements, 263 of them during 1994.

No ore grade gold assays have been obtained, although carbonate alteration is relatively abundant and there is a significant variation in trace element distribution among the holes drilled to date. During the next work programme, as more data are generated, it is expected that patterns will be better defined. The geochemical data are considered to represent an important component of the geology of the Timmins gold camp, and the results obtained by the sampling programme have focussed attention on several specific areas which will be systematically explored by the third drilling programme.

5. THE REVISED GEOLOGIC INTERPRETATION

The fact that an anticlinal axis occurs to the north of the Hollinger-McIntyre workings has been recognized for many years, as has the fact that the marker flows of the Vipond Formation, the V-8 and V-10B stratigraphically above the mineralized rocks of the Central Formation occur at the site of the new St. Mary's hospital in Timmins. However no detail as to the geology underlying the original Town of Timmins has been available prior to the Timginn drilling. As a result of the drilling of 18 holes, the Central Formation has been shown to underly the Timginn ground and two faults have been strongly indicated, both of which facts have important economic significance.

The Gillies Lake Fault lies along the southern edge of the lake, trending northeasterly, and is mineralized with sphalerite, minor galena, and in holes 10 and 11, anhydrite. The Fifth Avenue Fault underlies much of the Fifth Avenue area and Algonquin Boulevard to the east of Park Road. An interpretation of the geology is presented in Figure 2, a conceptual section through holes 12 and 13, passing about 75 metres east of the Canadel shaft and 150 metres east of the Hollinger 26 shaft. The great majority of ore in the main part of the Timmins Gold Camp occurs above the 63 flow and below the 99 and V-8 flows. The general limit of underground exploration and development by Hollinger, McIntyre and Coniaurum mines was based on lack of success in the sterile 63 flow sequence north of their workings. Almost all of the underground workings of Canadel were in the 63 flows, the notable exceptions being their small 15,000 ounce production from the 63/95 contact area at the Fifth Avenue Fault, and a cross-cut to the north on the 550' level. No significant records have been located on Canadel work. Another partial section of the Central Formation to the north of the large area of sterile 63 flows was provided by Hollinger Gold Mines in a long cross-cut extended on the 1500' level northward from their workings between Timginn holes 10 and 11. Although the Hollinger geologists are likely to have been quite competent, it must be remembered that just prior to undertaking this work Hollinger had examined and declined to explore properties which were developed into the Hallnor, Aunor, Delnite and Moneta mines. The Hollinger was the largest mine in the area, and in the late 1930's was not "hungry" for mill feed. The cross-cut to the north traversed 1150 feet of barren flows between the highly mineralized northeasterly-trending veins along the 63/95 contact (the Hollinger 99 and the McIntyre 5, 3, and 25 veins). It is not hard to visualize that the exploration venture would not be favourably viewed by Hollinger staff. Although detailed assay plans have not been located, it is probable that no ore-grade values were obtained in the cross-cut and that relatively few holes were drilled. It is known that, due to World War 2 manpower shortages, Hollinger was not overstaffed during the period of this work. As well, pressure was put on Hollinger by the Wartime Metals Board to bring the KamKotia property into production to provide copper and zinc for the war effort. That government agency had expropriative powers, and Hollinger terminated their underground work at both the Rundle and Canadel properties to enable them to proceed at Kam Kotia.

The drilling of Timginn holes 4, 9, 10, 11 , 12 and 13 failed to intersect the key 63/95 contact. It is interpreted to be at a somewhat lower elevation due to the thrust action of the Gillies Lake Fault having vertically separated the contact as illustrated by Figure 2. The fault exhibits considerable evidence of hydrothermal activity, and may in fact host ore in favourable settings such as at the target contact. Additional drilling will be proposed to test the bottom portion of the Central Formation beneath Gillies Lake, and the Gillies Lake and Fifth Avenue Faults.

In summary, the area covered by the Timginn property contains the flows which have been host to much of the gold produced from the mines in the main Timmins Camp. The flows are faulted and intruded by bodies of porphyry. Carbonate alteration is commonly present , and anomalous assemblages of pathfinder trace elements have been found to be present through the rocks. Quartz veining is relatively abundant, but no economic values of gold have yet been observed or measured.

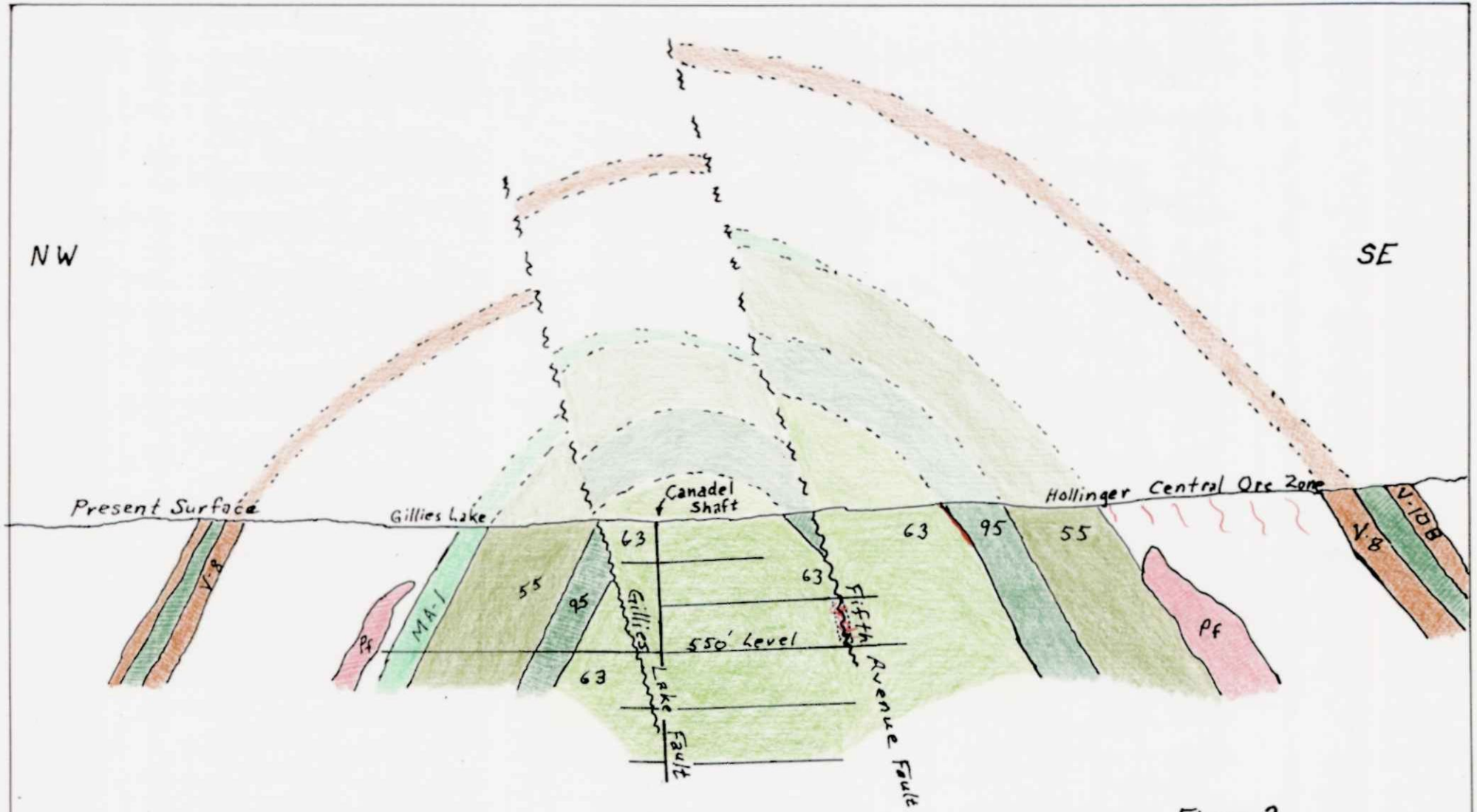


Figure 2

Scale

50 0 50 100

Metres

See Figure 1 for Legend

TIMGINN PROJECT	
TIMMINS ONTARIO	
Cross Section Through Drill Holes 12, 13	
October 194	Robert M. Ginn, P.Eng.

6. PERSONNEL EMPLOYED ON THE PROJECT

The following persons were directly employed in completing the work of the Second Timginn Project.

Robert M. Ginn, project manager, site geologist, senior geologist

Richard J. Labine, site geologist (January, February, 1994)

Paul Elliott, field assistant, 1993

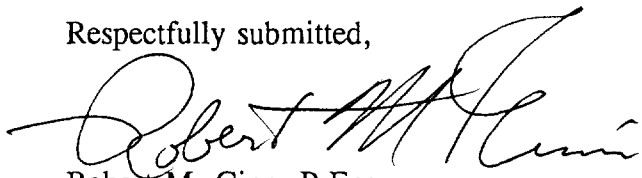
David Ginn, field assistant, 1994

Living and core logging/storage facilities were rented from Royal Oak Mines in Timmins.

The work completed during 1994 on the Second Timginn Drilling Programme qualified for assistance under the Ontario Mineral Incentive Program. The total expenditure amounted to $208,201.27, including an overhead allowance of 5%. Special care was taken in drilling 2718 metres of BQ core in urban Timmins, including within the principal area of parkland. The average cost of drilling, site management and logging, core storage and compliance with all environmental requirements was $63.01 per metre. The cost of sample analysis, data management and report and map preparation was $9.94 per metre.

The OMIP grant of $62,460.38 will be applied immediately to the drilling of an anticipated 860 metres on the property. The co-operation of the Ontario Ministry of Northern Development and Mines in this exploration programme in Canada's oldest and principal gold camp is gratefully acknowledged.

Respectfully submitted,



Robert M. Ginn, P.Eng.
Project Manager

Timginn

TIMGINN PROPERTY

Drill Hole: DDH-013

Pages: 4

Rock Code Legend


Overburden


Brecciated andesite


Carbonate exhalite


Agglomerate


Quartz


Pillowed andesite


Uniform dacite


Dacite tuff


Dacite agglomerate


Uniform andesite or basalt, leucoxine alteration


Andesite


Pillowed dacite


Spherulitic andesite


Uniform (massive) andesite or basalt


Graphitic tuff or interflow sediment


Fault gouge


Greywacke


Porphyry


Fault


Andesite agglomerate


Spherulitic dacite


Black carbonate, graphitic fractured andesite

Date: 7 Nov, 1994

TIMGINN

DRILL HOLE RECORD

Northing: 1611.0
Easting: -1047.0
Elevation: 3

Collar Azi.: 340.00
Collar Dip: -45.00

Hole Length: 350
Date Started: January 29/94

*** Depth	Dip Tests Azi.	*** Dip	*** Depth	Dip Tests Azi.	*** Dip
44		-46.0	230	334.5	-37.0
130	333.0	-41.0	330	334.5	-35.0

Drill Hole: DDH-013

Easting: 10+35 W
Northing: 16+14 N
Property: TIMGINN PROPERTY
Drilled by: Bradley Brothers
Core Size: BQ
Completed: February 01/94
Logged by: RJL
Township: Tisdale

Local reference: NE Corner of ONR Station is 1000 N, 1500 W

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
.00	28.00		OVERBURDEN .00 28.00 Overburden, reamed BW casing to 34 m.																	
28.00	64.50		UNIFORM (MASSIVE) ANDESITE OR BASALT 28.00 64.50 Soft light grey, pervasive calcite altered amygdaloidal andesite. Brownish stain and minor vugs strong to 30.5 m then locally in weakly sheared sections (occasionally at selvages) to 45.5 m. Thin chloritic selvages some sheared at 50 - 70 deg to c.a. 1 - 2% 5 mm calcite and quartz stringers along foliation, 49.3 - 49.7 m calcitic slickenside at 20 deg to c.a. At 51.5 - 51.85 m 25% quartz-calcite stringers chloritic wisps at 50 - 70 deg to c.a. At 60.42 m sericitic fault gouge at 70 deg to c.a. Very blocky (schistose) core for 20 cm similar at 61.48 - 61.65 m.														
			38.00 39.05 Trace elements and gold, amygdaloidal andesite.	16461	38.00	39.05	1.05	8.0		7.10	1.9	14.0	13	114	11	81.0	2.5	.1	83.0	113.0
			49.00 49.30 Trace elements and gold, amygdaloidal and pillowed andesite.	16462	49.00	49.30	.30	6.0		3.50	.5	15.0	15	103	11	92.0	2.5	.1	77.0	104.0
			51.50 51.85 25% quartz-calcite stringers, amygdaloidal andesite.	16468	51.50	51.85	.35	2.5												
			52.53 52.86 75% quartz-calcite stringers, amygdaloidal andesite.	16469	52.53	52.86	.33	2.5												
			59.15 59.45 Trace elements and gold, pillowed amygdaloidal andesite.	16463	59.15	59.45	.30	6.0		4.20	1.3	15.0	12	114	13	94.0	2.5	.1	63.0	109.0
64.50	162.00		UNIFORM (MASSIVE) ANDESITE OR BASALT 64.50 162.00 Gradually becomes slightly harder, more light grey, occasional selvages and amygdules in this pervasive calcite altered andesite. Continued minor quartz and calcite stringers. Quartz vein, 75.7 - 77.35 m (1.65 m) massive white, irregular sharp moderate angle to c.a. Contacts with 5 - 10% medium-dark green chloritic wisps and clots - minor brown tourmaline and few specks of chalco pyrite. Another similar quartz vein occurs at 78.75 - 79.04 m. Margins of chloritic clots and wisps appear chilled and beige - yellow colour. 1 - 2% fine-medium disseminated pyrite cubes to 79.7 m. At 134.5 - 141.15 m very light greenish-grey somewhat softer than above. At 140 - 141.15 m schistosity at 50 deg to c.a. And pervasive calcite alteration. Flow top breccia (??). At 141.5 light (medium) grey, soft (but harder than 135 - 141.15 m), pervasive calcite alteration is less intense and patchy, only occasional amygdules. White massive quartz veins with sharp irregular moderate angle to c.a. Or 80 deg to c.a. Contacts, < 1% chloritic inclusions, minor fuzzy calcite at contacts. 146.18 - 147.2 m, 148.12 - 148.19 m, 150.04 - 150.11 m, 152.63 - 152.69 m, 155.88 - 157.37 m, 158.59 - 158.89 m, 159.12 - 159.16 m, 160.1 - 160.5 m (chalco pyrite at i/c and several specks at o/c), 161.2 - 161.38 m, 163.5 - 163.72 m, 164.3 - 164.37 m, at 152 - 152.4 at 20 deg to c.a. Calcitic stringer along slickenside, schistose section minor pyrite from 151.6 - 152 m. Gradational o/c.														
			69.00 69.40 Trace elements and gold, amygdaloidal andesite.	16464	69.00	69.40	.40	6.0		5.10	1.1	.5	9	142	87	87.0	26.0	.1	59.0	61.0
			75.70 76.60 Massive quartz vein.	16470	75.70	76.60	.90	8.0												
			76.60 77.35 Massive quartz vein.	16471	76.60	77.35	.75	2.5												
			78.70 79.17 75% quartz vein - chloritic andesite.	16472	78.70	79.17	.47	2.5												
			79.17 79.70 75% quartz vein - chloritic andesite.	16473	79.17	79.70	.53	33.0												
			79.70 80.00 Trace elements and gold.	16465	79.70	80.00	.30	6.0		6.90	1.0	.5	11	117	10	86.0	2.5	.1	57.0	55.0

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			90.20 90.50 Trace elements and gold, amygdaloidal andesite.	16466	90.20	90.50	.30	7.0		1.70	.5	24.0	12	107	11	82.0	2.5	.1	94.0	132.0
			100.00 100.30 Trace elements and gold, amygdaloidal andesite.	16467	100.00	100.30	.30	6.0		1.60	.5	13.0	12	100	21	98.0	2.5	.1	60.0	89.0
			110.30 110.70 Trace elements and gold, light green andesite.	16474	110.30	110.70	.40	6.0		1.20	1.2	15.0	8	112	16	67.0	2.5	.1	70.0	104.0
			120.50 120.80 Trace elements and gold, light green andesite.	16475	120.50	120.80	.30	7.0		.80	.5	19.0	11	106	17	74.0	2.5	.1	81.0	115.0
			130.00 130.30 Trace elements and gold, light green andesite.	16476	130.00	130.30	.30	8.0		1.60	1.8	.5	14	106	26	87.0	2.5	.1	65.0	72.0
			140.85 141.15 Trace elements and gold, light green andesite.	16477	140.85	141.15	.30	2.5		.80	.5	35.0	12	152	9	129.0	2.5	.1	73.0	242.0
			146.80 147.20 Massive quartz vein.	16487	146.80	147.20	.40	2.5												
			151.30 151.60 Trace elements and gold, light-medium grey amygdaloidal andesite.	16478	151.30	151.60	.30	2.5		.60	5.5	.5	12	140	12	119.0	2.5	.1	80.0	107.0
			151.60 152.69 Quartz stringer, calcite stringer, minor pyrite, amygdaloidal andesite.	16488	151.60	152.69	1.09	2.5												
			155.88 157.37 Massive white quartz.	16489	155.88	157.37	1.49	2.5												
			157.37 158.59 Amygdaloidal andesite.	16490	157.37	158.59	1.22	2.5												
			158.59 159.16 Two quartz veins.	16491	158.59	159.16	.57	2.5												
			159.16 160.10 Amygdaloidal andesite.	16492	159.16	160.10	.94	10.0												
			160.10 160.50 Massive quartz vein, chalco pyrite at contacts.	16493	160.10	160.50	.40	2.5												
			160.50 161.50 Amygdaloidal andesite, 1% disseminated cubic pyrite.	16494	160.50	161.50	1.00	2.5												
			161.50 161.80 Trace elements and gold, amygdaloidal andesite.	16479	161.50	161.80	.30	2.5		8.00	1.3	24.0	11	151	11	112.0	2.5	.1	57.0	430.0
162.00	171.00		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			162.00 171.00 Variable, soft - moderately hard medium greenish grey vague fragmental andesite, some flow top brecciation (?). With buffish hard clasts (almost spherulitic), occasional shear - vague foliation at 50 - 70 deg to C.A. At 165.73 - 165.85 m hyaloclasite association with quartz-calcite stringers - monor pyrite. At 165.85 - 168 m overall 3% pyrite with sections 5 - 10% as bands - clots and disseminated along foliation - vague fragmental section. Gradational o/c.																	
			163.50 164.37 Two quartz veins, andesite.	16495	163.50	164.37	.87	2.5												
			164.37 165.23 Andesite (fragmental ?), 1 - 2% pyrite.	16498	164.37	165.23	.86	2.5												
			165.73 166.40 Andesite (fragmental ?), up to 10% pyrite.	16499	165.73	166.40	.67	10.0												
			166.40 167.85 Andesite (fragmental ?), up to 10% pyrite.	16500	166.40	167.85	1.45	16.0												
			167.85 169.30 Andesite (fragmental ?), 1 - 3% pyrite.	8559	167.85	169.30	1.45	2.5												
171.00	183.50		**SPHERULITIC ANDESITE**																	
			171.00 183.50 Moderately hard, weak buff-pink light grey colour, spherulitic andesite. With short schistose - chlorite matrix fragmental sections (70 deg to C.A.) calcite stringers and minor pyrite in these sections especially 177.08 - 177.65 m and 178.55 - 179.1 m. Some of the sections are coalescing spherules, others are somewhat more massive with vague chloritic fracture network. Gradational o/c.																	
			171.20 171.50 Trace elements and gold, spherulitic andesite.	16480	171.20	171.50	.30	2.5		.90	.5	44.0	15	80	15	226.0	2.5	.1	68.0	23.0
			176.40 177.80 Minor pyrite in fragmental sections of spherulitic andesite.	8560	176.40	177.80	1.40	2.5												
			177.80 179.20 Minor pyrite in fragmental sections of spherulitic andesite.	8561	177.80	179.20	1.40	2.5												
			180.40 180.70 Trace elements and gold, spherulitic andesite.	16481	180.40	180.70	.30	2.5		.60	1.0	14.0	14	98	10	117.0	2.5	.1	66.0	140.0
183.50	262.10		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			183.50 262.10 Dull light-medium grey, soft (tuff?) generally featureless, except for sections with calcitic stringers or patches (almost 'wormy' and often microfaulted) 219 - 262.3 m. Other sections with pinpoint black quartz eyes? Some featureless sections look gritty almost greywacke-like but no apparent bedding. Slightly bleached harder sections few amygdules 209.8 - 210.1 m, 211.2 - 211.45 m. At 237.5 - 238.3 m, 239.4 - 239.9 m 10 - 20 deg to c.a. Slickensides, calcite stringer at 30 deg to c.a., 5 cm blocky core after o/c. 257.88 - 260.05 m leucoxene massive flow? some 'swirly' chloritic fragments 5 mm. Gradational o/c. Sharp o/c.																	
			191.50 191.80 Trace elements and gold, andesite tuff (?), featureless.	16482	191.50	191.80	.30	2.5		1.40	.5	12.0	14	70	12	89.0	2.5	.1	85.0	86.0
			201.60 201.90 Trace elements and gold, andesite tuff (?), featureless.	16483	201.60	201.90	.30	2.5		.70	.5	26.0	3	108	1	37.0	2.5	.1	18.0	265.0
			211.70 212.00 Trace elements and gold, andesite tuff (?), featureless.	16484	211.70	212.00	.30	2.5		.30	.5	19.0	10	112	1	98.0	2.5	1.0	68.0	245.0
			221.35 221.65 Trace elements and gold, andesite tuff (?), sections of calcite stringers or breccia filling (?).	16485	221.35	221.65	.30	2.5		.30	1.0	10.0	14	81	1	96.0	2.5	.8	89.0	60.0
			230.95 231.25 Trace elements and gold, andesite tuff (?), sections of calcite stringers or breccia filling (?).	16486	230.95	231.25	.30	2.5		.40	1.8	21.0	14	86	1	96.0	2.5	.6	85.0	134.0

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			240.60 240.90 Trace elements and gold, andesite tuff (?), sections of calcite stringers or breccia filling (?).	16496	240.60	240.90	.30	2.5		.30	.5	.5	11	72	1	95.0	2.5	.6	62.0	102.0
			250.15 250.45 Trace elements and gold, andesite tuff (?), sections of calcite stringers or breccia filling (?).	16497	250.15	250.45	.30	2.5		.40	.5	13.0	12	132	1	101.0	2.5	.5	68.0	99.0
			261.30 261.60 Trace elements and gold, andesite tuff (?), sections of calcite stringers or breccia filling (?).	15301	261.30	261.60	.30	2.5		.50	.5	10.0	12	100	1	94.0	2.5	1.9	118.0	266.0
262.10	290.17		**SPHERULITIC ANDESITE**																	
			262.10 290.17 Moderately hard, slightly pinkish grey spherulitic andesite, at some selvages which are occasionally brecciated and chloritic with minor pyrite > masses of coalescing spherules are evident, in other areas fairly massive pinkish network fractured andesite is noted, locally pervasive calcite altered. Selvages are often sheared at 60 deg to c.a. At 280 - 286.4 m 2 - 4% calcite stringers along weak 70 deg to c.a. Foliation. At 285.58 - 286.1 m, 288 - 288.4 m 10% andesite 25% quartz-calcite stringers and fracture filling respectively in flow top breccia. Up to 1% fine pyrite sheared o/c at 80 deg to c.a.															
			262.10 263.60 Trace - 1% pyrite in spherulitic andesite.	8562	262.10	263.60	1.50	2.5												
			263.60 265.10 Trace - 1% pyrite in spherulitic andesite.	8563	263.60	265.10	1.50	2.5												
			270.80 271.10 Trace elements and gold, spherulitic andesite.	15302	270.80	271.10	.30	2.5		.50	2.1	.5	6	66	1	68.0	2.5	.9	85.0	13.0
			281.00 281.30 Trace elements and gold, spherulitic andesite.	15303	281.00	281.30	.30	2.5		.50	.5	.5	12	94	2	131.0	2.5	1.0	84.0	19.0
			285.58 286.10 1% fine pyrite, flow top breccia spherulitic andesite.	8564	285.58	286.10	.52	2.5												
			288.00 288.40 1% fine pyrite, flow top breccia spherulitic andesite.	8565	288.00	288.40	.40	2.5												
290.17	304.40		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			290.17 304.40 Light greenish grey andesite soft. In places abundant amygdules adjacent to thin chloritic selvages (80 deg to C.A.). Sections of flow breccia (almost cherty) with some calcite (quartz) stringers 291.57 - 291.72 m, 291.88 - 292.5 m (5 - 15% dull pyrite bands), 299 - 299.08 m (brecciated angular feldspars). At 301.73 - 301.8 m few calcite stringers and chloritic shears at 60 - 70 deg to c.a. Gradational o/c.															
			290.70 291.00 Trace elements and gold, light greenish grey andesite.	15304	290.70	291.00	.30	2.5		.40	.5	18.0	13	100	1	93.0	2.5	1.0	69.0	481.0
			291.00 291.88 Trace pyrite, light green grey andesite, amygdaloidal sections and flow breccia.	8566	291.00	291.88	.88	2.5												
			291.88 292.50 5 - 15% pyrite, light green grey andesite, amygdaloidal sections and flow breccia.	8567	291.88	292.50	.62	2.5												
			292.50 293.77 0 - 2% pyrite, light green grey andesite, amygdaloidal sections and flow breccia.	8568	292.50	293.77	1.27	2.5												
			293.77 294.56 0 - 2% pyrite, light green grey andesite, amygdaloidal sections and flow breccia.	8569	293.77	294.56	.79	2.5												
			300.40 300.70 Trace elements and gold, light buff grey andesite, few amygdules, minor pyrite.	15305	300.40	300.70	.30	2.5		.30	3.2	.5	19	104	1	143.0	2.5	.7	110.0	15.0
			300.70 302.00 1 - 2% disseminated pyrite in andesite, few amygdules.	8570	300.70	302.00	1.30	2.5												
304.40	311.80		**SPHERULITIC ANDESITE**																	
			304.40 311.80 Light-medium green soft to local moderately hard andesite. Dominantly spherulitic flows with some fragmental sections (ie amygdaloidal, cherty grey (306.85 - 307.5 m) etc.). Some of the broken up spherulitic material would qualify as 'chicken feed'. At 311.5 - 311.8 m lapilli > tuff > aphanitic (grain size gradation? tops would be north!). Gradational o/c.															
			306.75 307.15 Grey cherty section, minor pyrite.	8571	306.75	307.15	.40	2.5												
			307.15 308.60 Spherulitic andesite, up to 1% coarse cubic pyrite.	8572	307.15	308.60	1.45	2.5												
			310.90 311.20 Trace elements and gold, spherulitic andesite.	15306	310.90	311.20	.30	2.5		.50	.5	.5	10	30	1	166.0	2.5	.7	102.0	24.0
311.80	350.00		**ANDESITE**																	
			311.80 350.00 Light greenish grey, soft, some massive flow sections but dominantly tuffaceous agglomerate size fragmental with up to 5% calcite minor quartz matrix local trace pyrite. Fragments are quite angular in some sections and are varieties of altered andesite while other sections show subrounded quartz-feldspar clots and spherulites. Foliation is dominantly 55 - 70 deg to c.a.															

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			313.00 314.45 5 - 20% quartz (calcite) stringers and infill, andesite fragmental and flows, trace pyrite.	8573	313.00	314.45	1.45	2.5												
			320.70 321.00 Trace elements and gold, andesite fragmental and (flows).	15307	320.70	321.00	.30	2.5		.40	4.8	26.0	5	9	1	82.0	2.5	1.0	49.0	207.0
			330.50 330.80 Trace elements and gold, andesite fragmental and (flows).	15308	330.50	330.80	.30	2.5		.30	.5	20.0	11	13	1	115.0	2.5	.7	88.0	58.0
			331.80 333.30 1 - 5% calcite and quartz stringers, .5% pyrite, andesite fragmental and flows.	8574	331.80	333.30	1.50	2.5												
			333.30 334.80 1 - 5% calcite and quartz stringers, .5% pyrite, andesite fragmental and flows.	8575	333.30	334.80	1.50	2.5												
			340.20 340.50 Trace elements and gold, andesite fragmental and flows.	15309	340.20	340.50	.30	2.5		.20	.5	13.0	13	21	1	115.0	2.5	1.4	87.0	60.0
			342.50 344.00 5 - 10% calcite (quartz) stringers, andesite fragmental and (flows).	8576	342.50	344.00	1.50	2.5												
			350.00 END OF HOLE.																	

Timginn

TIMGINN PROPERTY

Drill Hole: DDH-014

Pages: 3

Rock Code Legend

- Overburden
- Brecciated andesite
- Carbonate exhalite
- Agglomerate
- Quartz
- Pillowed andesite
- Uniform dacite
- Dacite tuff
- Dacite agglomerate
- Uniform andesite or basalt, leucoxine alteration
- Andesite
- Pillowed dacite
- Spherulitic andesite
- Uniform (massive) andesite or basalt
- Graphitic tuff or interflow sediment
- Fault gouge
- Greywacke
- Porphyry
- Fault
- Andesite agglomerate
- Spherulitic dacite
- Black carbonate, graphitic fractured andesite

Date: 7 Nov, 1994

TIMGINN

DRILL HOLE RECORD

Northing: 1664.0
Easting: -932.0
Elevation: 3

Collar Azi.: 150.00
Collar Dip: -45.00

Hole Length: 182
Date Started: February 02/94

*** Depth	Dip Tests Azi.	*** Dip	*** Depth	Dip Tests Azi.	*** Dip
38		-45.8	130	156.5	-40.0

Drill Hole: DDH-014

Easting: 09+35 W
Northing: 16+54 N
Property: TIMGINN PROPERTY
Drilled by: Bradley Brothers
Core Size: BQ
Completed: February 04/94
Logged by: RJL
Township: Tisdale

Local reference: NE Corner of ONR Station is 1000 N, 1500 W

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
.00	32.00		OVERBURDEN .00 32.00 BW casing (overburden, porphyry boulders or broken up ledge starting at 25 metres).																	
32.00	45.77		PORPHYRY 32.00 45.77 Medium grey porphyry, up to 15% white subrounded - euheral feldspars (to 5 mm), also 1 - 3% black phenos some quartz, some amphiboles? (laths). Joint sets at 20 - 30 deg to C.A. And 45 - 55 deg to C.A. 10 deg to C.A. Chloritic slickenside 37.1 - 37.75 m. Few 1 cm quartz stringers at 55 deg to c.a. At 38.4 - 38.5 m, 39.9 m. Few specks sphalerite adjacent to a rare calcite stringer at 42.87 m, irregular sharp 30 deg to c.a. O/c.															
			32.00 32.30 Trace elements and gold, medium grey porphyry.	15310	32.00	32.30	.30	7.0		27.30	.5	17.0	14	42	14	52.0	2.5	.1	61.0	142.0
			40.30 41.50 Trace elements and gold, medium grey porphyry.	8577	40.30	41.50	1.20	2.5												
			41.50 41.80 Medium grey porphyry.	15311	41.50	41.80	.30	9.0		8.20	.5	23.0	13	29	23	48.0	2.5	.5	212.0	505.0
45.77	52.65		UNIFORM (MASSIVE) ANDESITE OR BASALT 45.77 52.65 Very hard, light greyish green, andesite, vague selvages with amygdules and chloritic brecciated material at selvages. First 2.5 m quite schistose (20 - 35 deg to C.A.) and blocky with 1 - 2% fine pyrrhotite clasts in flow breccia (?). Sharp 55 deg to c.a. O/c.															
			51.10 51.40 Trace elements and gold, andesite, few amygdules.	15312	51.10	51.40	.30	2.5		2.70	.5	10.0	11	127	33	249.0	2.5	.4	174.0	78.0
52.65	65.12		UNIFORM (MASSIVE) ANDESITE OR BASALT 52.65 65.12 Moderately hard, medium green andesite. At first network fine fracturing with local bleaching along fractures. Then beyond 56 m becomes speckled (from dark green chlorite) and more schistose at 25 - 40 deg to C.A. 60 - 62 m very blocky (1 m ground core) rusty carbonaceous stained shears. 62 - 65 m very blocky (2.2 m ground core) 55 deg to c.a. Sharp o/c.															
			59.00 59.30 Trace elements and gold, speckled andesite.	15313	59.00	59.30	.30	43.0		1.50	41.0	.5	18	123	16	377.0	2.5	.1	67.0	13.0
65.12	100.95		UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION 65.12 100.95 Heterolithic breccia, 30 - 45 deg to C.A. Foliation, light (medium) green (more greenish than in holes 10 - 11). Quite agglomeratic overall and mainly to 74 m. Variations of leucoxene massive andesite are the dominant lithology. Pyrrhotite (minor chalco pyrite) clasts up to 3% locally with maximum size 5 cm x 1 cm. Occasional crosscutting joints at 10 - 25 deg to c.a., slickenside (minor quartz-calcite coating). 78.7 - 79.6 m chloritic rusty 5 - 20 deg to c.a. Slickenside with gouge at 79.3 - 79.6 m. Beyond 80 m pyrite becomes the dominant sulfide as stringers of clots not obviously detrital. 85.55 - 85.75 m quartz stringers broken i/c 60 deg to c.a. O/c large pyrrhotite growth near o/c. Beyond 87.5 m occasional porphyry clasts and massive slight pink-buff hard weak fractured andesite. At 88.2 - 88.58 m white massive quartz vein with masses of acicular flesh colour clinozoisite (?) as well as numerous specks of sphalerite, galena, chalco pyrite along with chloritic wisps near i/c. At 88.79 -															

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			88.9, and 89.07 - 89.12 m a few quartz stringers. At 89.64 - 90.08 m white massive quartz vein, sharp 70 deg and 50 deg to c.a. Contacts respectively with flesh colour masses of clinozoisite and large pyrite, sphalerite growth near i/c. Beyond 92 m some sections more light-medium grey colour and more lapilli size clasts. At 94.15 - 94.72 m white massive quartz vein with masses of clinozoisite (?) and rehealed with calcite, sharp 55 deg to c.a. Contacts. Quite blocky beyond 96 m fault zone? two calcitic stringers at 25 deg to c.a. - foliation still at 40 deg to c.a. Broken o/c.															
			68.00 69.50 Heterolithic breccia.	8579	68.00	69.50	1.50	2.5												
			69.50 69.80 Trace elements and gold, heterolithic breccia.	15314	69.50	69.80	.30	2.5		.80	8.1	14.0	11	73	77	450.0	2.5	.1	184.0	32.0
			70.75 72.20 Heterolithic breccia.	8580	70.75	72.20	1.45	2.5												
			73.80 75.20 Heterolithic breccia.	8581	73.80	75.20	1.40	2.5												
			80.20 80.55 Trace elements and gold, heterolithic breccia.	15315	80.20	80.55	.35	2.5		3.70	1.8	24.0	11	77	26	429.0	2.5	.1	103.0	111.0
			80.55 82.00 Heterolithic breccia.	8582	80.55	82.00	1.45	6.0												
			83.20 84.70 3 - 5% pyrite (pyrrhotite), heterolithic breccia.	8583	83.20	84.70	1.50	2.5												
			87.15 88.15 3% pyrite, (pyrrhotite), heterolithic breccia.	8584	87.15	88.15	1.00	2.5												
			88.15 88.80 Massive quartz, minor sphalerite, chalco pyrite, galena.	8585	88.15	88.80	.65	2.5												
			88.80 89.64 Heterolithic breccia.	8586	88.80	89.64	.84	2.5												
			89.64 90.08 Massive quartz - spalerite, pyrite at i/c.	8587	89.64	90.08	.44	2.5												
			91.10 91.40 Heterolithic breccia.	15316	91.10	91.40	.30	2.5		1.40	1.1	11.0	6	137	30	493.0	2.5	.1	87.0	99.0
			92.75 94.15 Heterolithic breccia.	8588	92.75	94.15	1.40	2.5												
			94.15 94.72 Quartz vein.	8589	94.15	94.72	.57	2.5												
100.95	142.92		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			100.95 142.92 Light grey, soft - moderately hard andesite. Few amygdules but rather uniform to 107 m where fine becoming coarse grained leucoxenic massive flows are noted, a weak-moderate schistosity at 30-45 deg to C.A. Is imparted by a weakly-moderately developed (chloritic) carbonaceous-sometimes graphitic and calcitic fracture filling. The core is very blocky to 108 m and this may be due to fault zone proximity. At 108.2 - 108.3, 108.52 - 108.73, 112.5 - 112.6 m, quartz-calcite stringers along 35 - 55 deg to c.a. Foliation other quartz-calcite stringers are generally 1 - 3 cm. Hairline calcite occupies tension gashes and microfaulting is evident especially 113.6, 124 m. At 135.4 - 135.9 m core is quite blocky due to low angle slickenside. At 140.6 - 141 m low angle slickenside with 5 cm quartz calcite infilling. Beyond 141 m goes from coarse grained to fine grained with decreasing size leucoxene with possible 5 cm quartz-calcite at 70 deg to c.a. o/c.															
			104.10 104.40 Blocky andesite.	15317	104.10	104.40	.30	15.0		.50	.5	.5	12	40	16	82.0	2.5	.1	165.0	45.0
			113.80 114.10 Trace elements and gold, massive leucoxine andesite.	15318	113.80	114.10	.30	62.0		1.20	26.0	14.0	23	180	22	144.0	2.5	.1	82.0	173.0
			123.50 123.80 Trace elements and gold, massive leucoxine andesite.	15319	123.50	123.80	.30	2.5		1.40	.5	17.0	16	104	25	302.0	2.5	.1	37.0	419.0
			132.50 132.80 Trace elements and gold, massive leucoxine andesite.	15320	132.50	132.80	.30	2.5		.70	.5	.5	16	128	9	114.0	2.5	.1	99.0	341.0
142.92	152.75		PILLOWED ANDESITE																	
			142.92 152.75 Light-medium green, moderately hard andesite blocky, pillowed, some amygdules, brecciation at few selvages with graphitic-chloritic-calcitic irregular fracture filling at 20 - 55 deg to C.A., occassionally schistose (graphitic coated). Rare minor pyrite at some brecciated selvages broken o/c.															
			143.65 143.95 Trace elements and gold, light medium-green andesite (pillowed), amygdules.	15321	143.65	143.95	.30	2.5		1.10	.5	12.0	14	136	18	471.0	2.5	.1	158.0	20.0
152.75	161.30		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			152.75 161.30 Moderately hard, light greyish green, andesite, more uniform - amygdaloidal (no HCL acid reaction on groundmass). Last 35 cm sows calcite filling of brecciated andesite. Gradational O/C.																	
			154.70 155.00 Trace elements and gold, light grey-green amygdaloidal andesite.	15322	154.70	155.00	.30	6.0		32.40	3.2	19.0	39	657	349	1723.0	86.0	.1	572.0	2000.0
161.30	163.52		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			161.30 163.52 Weakly graphitic andesite fragmental 45 - 65 deg to C.A.																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			Occasional shear. 1 - 2% disseminated pyrite, weakly calcite matrix. Micro-leucoxene rich clasts and variety of andesites in this tuffaceous lapillistone. 70 deg to C.A. Sharp O/C.																	
			161.35 162.85 1 - 2% disseminated pyrite in graphitic andesitic fragmental.	8590	161.35	162.85	1.50	2.5												
			162.85 164.30 1 - 2% disseminated pyrite in graphitic andesitic fragmental.	8591	162.85	164.30	1.45	2.5												
163.52	167.80		**SPHERULITIC ANDESITE**																	
			163.52 167.80 Medium green, soft to moderately hard andesite fragmental with few porcellanous clasts, dull greenish white 'CHICKEN FEED' spherulitic clasts - mainly lapilli size with tops down hole indicated by grain size gradation at 167 - 167.5 m. Gradational o/c.																	
			165.20 165.50 Trace elements and gold, in chicken feed andesitic fragmental.	15323	165.20	165.50	.30	2.5		.50	2.9	10.0	8	39	37	153.0	2.5	.1	128.0	26.0
			165.50 167.05 0 - 1% disseminated pyrite, in andesitic fragmental.	8592	165.50	167.05	1.55	2.5												
			167.05 167.75 0 - 1% disseminated pyrite, in andesitic fragmental.	8593	167.05	167.75	.70	2.5												
167.80	182.00		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			167.80 182.00 Medium dark green-grey soft andesite with thin chloritic selvages (?) to 170 m. At 171.97 - 172.11 m quartz-calcite-graphitic breccia zone at 60 deg to C.A. Beyond 172.11 m becomes a tuffaceous agglomerate lapillistone with medium-dark green andesite clasts dominant and carbonaceous matrix especially 172.4 - 174.25 m and 176.2 - 179.47 m, 0 - 2% pyrite, 0 - 2% calcite stringers and increased schistosity (at 50 - 70 deg to c.a.) in these darkened sections kinking at 174.4 m, microfaulting at 179.4 m. Beyond 179.48 m gradually changes to uniform soft light-medium greyish green andesite, featureless.																	
			171.97 172.80 Quartz-calcite stringers and 1 - 2% pyrite in chloritic andesitic fragmental.	8594	171.97	172.80	.83	2.5												
			176.00 177.20 1 - 2% pyrite in carbonaceous andesitic fragmental.	8595	176.00	177.20	1.20	5.0												
			177.20 177.50 Trace elements and gold.	15324	177.20	177.50	.30	2.5		1.10	4.8	12.0	13	19	9	177.0	2.5	.1	70.0	2.5
			177.50 178.40 1 - 2% pyrite calcite stringers, carbonaceous andesitic fragmental	8596	177.50	178.40	.90	5.0												
			182.00 END OF HOLE.																	

Timginn

TIMGINN PROPERTY

Drill Hole: DDH-015

Pages: 5

Rock Code Legend

- Overburden
- Brecciated andesite
- Carbonate exhalite
- Agglomerate
- Quartz
- Pillowed andesite
- Uniform dacite
- Dacite tuff
- Dacite agglomerate
- Uniform andesite or basalt, leucoxine alteration
- Andesite
- Pillowed dacite
- Spherulitic andesite
- Uniform (massive) andesite or basalt
- Graphitic tuff or interflow sediment
- Fault gouge
- Greywacke
- Porphyry
- Fault
- Andesite agglomerate
- Spherulitic dacite
- Black carbonate, graphitic fractured andesite

Date: 30 Sep, 1994

TIMGINN

DRILL HOLE RECORD

Northing: 1066.0
Easting: -1451.0
Elevation: 335.3

Collar Azi.: 320.00
Collar Dip: -45.00

Hole Length: 305
Date Started: February 05/94

*** Depth	Dip Tests Azi.	*** Dip	*** Depth	Dip Tests Azi.	*** Dip
32		-43.7	230	316.5	-33.0
130	309.0	-40.0	305	320.0	-28.0

Drill Hole: DDH-015

Easting: 14+51 W
Northing: 10+66 N
Property: TIMGINN PROPERTY
Drilled by: Bradley Brothers
Core Size: BQ
Completed: February 08/94
Logged by: RJL
Township: Tisdale

Local reference: NE Corner of ONR Station is 1000 N, 1500 W

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
.00	23.00		OVERBURDEN .00 23.00 0 - 23 m NW casing, broken bedrock to 44 m. Reamed BW casing to 44 m.																	
23.00	118.20		ANDESITE 23.00 118.20 At 23 - 40.5 m - 11.5 m of ground core, 40.5 - 44 m - .9 m of ground core, andesite lapilli tuff. Very rubbly to 42.5 m, vuggy local rusty stain - local 1% disseminated pyrite cubes. Sections of carbonaceous andesitic tuff (?? like hole 12 at 186.2 - 193.3 or hole 4 at 232 - 235.7 m) and also moderately hard light grey fractured andesite graphitic rubble at 41 m with broken bullish white quartz after 41 m. Well laminated tuff 42.5 - 44 m at 35 - 50 deg to c.a. With pervasive calcite alteration. At 44 - 47 m 65% brownish stained zones, calcite altered local 1% disseminated pyrite also few crosscutting quartz (calcite) stringers. At 46.8 - 47.2 m carbonaceous matrix with 1 - 2% disseminated pyrite. At 47 - 56 m medium (light) green grey then becomes light grey agglomerate-tuff, variable hardness, some sections dominantly tuff, others agglomeratic with little variation in lithologies, ie some amygdaloidal, pillowed clasts at 63 m, some buffish light grey fractured andesite. Overall 50 - 60 deg foliation with occasional hairline calcite. Quartz - minor calcite - minor ankerite stringers along foliation and irregular low angle brecciated 47.86 - 49.36 m (5 - 10% with 1% pyrite), 49.36 - 50.35 m (50% - 1% pyrite), 50.8 - 53.5 m (10% > 1 - 2% pyrite), 53.8 - 56 m, (25% > 0 - .5% pyrite). At 56 - 59 m four 3 - 10 cm quartz-calcite stringers with local pyrite acc. (along foliation). At 63.5 - 64 m brown staining, vuggy core blocky - beyond 69 m foliation is 60 - 70 deg to c.a. At 70.6 m few mm chloritic fault gouge at 70 deg to c.a. With blocky core adj. (10 cm) similar at 79.3 m with 3 cm calcite (quartz) stringer. AT 92.7 - 94.4 M SLIGHTLY HARDER, MEDIUM GREY, BLOCKY, WITH QUARTZ (CALCITE) STRINGER AT 92.93 - 93 M, AND VUGGY FAULT GOUGE MATERIAL TO 96.03 M. CONTINUED LITTLE VARIABILITY IN LITHOLOGIES SOME TUFF SECTIONS ARE COARSERA GRAINED. COULD THIS BE SIMILAR to 'felted andesite' described in hole 7? at 111.1 - 111.62 m very blocky core (SCHISTOSE 55 - 75 DEG TO C.A.) WITH QUARTZ (CALCITE) STRINGER AT 111.32 - 111.52 M. SLIGHTLY DARKER GREY 111.52 - 111.95 M. GRADATIONAL O/C.																	
			42.50 44.00 Laminated tuffaceous andesite fragmental.	15201	42.50	44.00	1.50	9.0												
			44.00 45.50 5 - 10% quartz stringers in rusty andesite fragmental.	15202	44.00	45.50	1.50	2.5												
			45.50 46.36 Blocky, locally rusty andesite fragmental.	15203	45.50	46.36	.86	2.5												
			46.36 47.86 2 - 4% pyrite few quartz-calcite stringers and local rusty sections and carbonaceous sections.	15204	46.36	47.86	1.50	2.5												
			47.86 48.16 Trace elements and gold, andesite fragmental.	15325	47.86	48.16	.30	2.5		.10	13.0	16.0	11	96	8	61.0	2.5	.1	60.0	176.0
			48.16 49.36 5 - 10% quartz-calcite, 1% pyrite, andesite fragmental.	15205	48.16	49.36	1.20	11.0												
			49.36 50.35 50% quartz (calcite), 1% pyrite, andesite fragmental.	15206	49.36	50.35	.99	2.5												
			52.05 53.55 10% quartz-calcite, 1 - 2% pyrite, andesite fragmental.	15207	52.05	53.55	1.50	7.0												
			53.55 55.05 10% quartz-calcite, 1 - 2% pyrite, andesite fragmental.	15208	53.55	55.05	1.50	6.0												
			55.05 56.00 Up to 25% quartz-calcite stringers, .5% pyrite, andesite fragmental.	15209	55.05	56.00	.95	2.5												
			57.60 57.90 Trace elements and gold, andesite fragmental.	15326	57.60	57.90	.30	2.5		.30	3.1	29.0	14	127	9	81.0	2.5	.1	57.0	209.0

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			57.90 59.00 Up to 5% quartz-calcite stringers, local pyrite.	15210	57.90	59.00	1.10	2.5												
			67.15 67.45 Trace elements and gold, andesite fragmental.	15327	67.15	67.45	.30	12.0		.20	2.0	38.0	12	104	6	47.0	2.5	.1	104.0	122.0
			77.35 77.65 Trace elements and gold, andesite fragmental.	15328	77.35	77.65	.30	2.5		.30	.5	26.0	15	113	10	83.0	2.5	.1	56.0	59.0
			87.50 87.80 Trace elements and gold, andesite fragmental.	15329	87.50	87.80	.30	2.5		.20	1.6	31.0	12	110	11	77.0	2.5	.1	71.0	98.0
			92.64 94.12 Fault zone (?), dark grey, few blocky quartz-calcite stringers.	15211	92.64	94.12	1.48	2.5												
			98.85 99.15 Trace elements and gold, andesite fragmental.	15330	98.85	99.15	.30	2.5		.30	.5	34.0	11	111	9	60.0	2.5	.1	79.0	110.0
			108.45 108.75 Trace elements and gold, andesite fragmental.	15331	108.45	108.75	.30	7.0		.30	2.8	25.0	13	104	13	81.0	2.5	.1	60.0	141.0
			117.87 118.17 Trace elements and gold, andesite fragmental.	15332	117.87	118.17	.30	7.0		.30	.5	189.0	13	106	17	108.0	2.5	.1	76.0	90.0
118.20	137.30		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			118.20 137.30 Soft, light greenish grey, andesite, thin chloritic schistose selvages at 70 deg to C.A. With amygdules adjacent and some brecciation. At 131.74 - 132.05 aphanitic 'cherty sericitic looking' but soft and 5% disseminated cubic pyrite. Gradational o/c.																
			128.86 129.16 Trace elements and gold, amygdaloidal pillowed andesite.	15333	128.86	129.16	.30	2.5		.40	2.2	24.0	12	103	15	75.0	2.5	.3	63.0	67.0
			131.72 132.02 'cherty soft looking' sericitic up to 5% pyrite.	15212	131.72	132.02	.30	9.0												
137.30	144.85		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			137.30 144.85 Mottled, light grey, medium-coarse grained, 'felted' andesite, soft, cut by up to 5% calcite stringers along 60 - 75 deg foliation and crosscut at moderate and high angles to C.A. 0 - 1% disseminated fine pyrite. Gradational O/C.																
			138.40 138.70 Trace elements and gold, andesite fragmental, 'felted'?.	15334	138.40	138.70	.30	2.5		.30	.5	30.0	12	99	11	82.0	2.5	.1	64.0	159.0
			143.35 144.85 0 - 1% fine disseminated pyrite, 'felted' andesite.	15213	143.35	144.85	1.50	2.5												
144.85	161.86		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			144.85 161.86 Soft, light greenish grey andesite thin chloritic (occasionally schistose) selvages few amygdules, some brecciation. A few stringers of black calcite-carbonaceous materisl - looks fractured. At 150.4 - 150.55 m few calcite filled tension gashes. At 150.55 - 151.15 m sinuous white quartz-calcite stringer 3 - 5 cm thick with minor pyrite in host volcanic. Beyond 156 m slightly harder more buff-green. At 161.72 - 161.86 m fuzzy white quartz-calcite ankerite at o/c ? 65 deg to c.a.																
			148.70 149.00 Trace elements and gold, amygdaloidal pillowed (?) andesite.	15335	148.70	149.00	.30	2.5		.30	.5	33.0	11	103	14	72.0	2.5	.1	54.0	60.0
			150.40 151.15 Sinuous quartz-calcite stringer, minor pyrite in country rock.	15214	150.40	151.15	.75	2.5												
			158.70 159.00 Trace elements and gold, amygdaloidal pillowed andesite.	15336	158.70	159.00	.30	2.5		.30	.5	12.0	13	129	11	78.0	2.5	.1	72.0	36.0
161.86	172.20		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			161.86 172.20 Soft, medium buffish grey, coarse grained ('FELTED'?) rather featureless massive andesite. Pervasive calcite alteration. Vague foliation (occasional sericitic shear). 1% hairline - 5 mm calcite stringers along foliation and a few 2 - 10 cm stringers of 'brecciated looking' black-white calcite stringers along foliation, ie 160.41 - 160.5 m. Vague flow features like sparse carbonaceous - chlorite (calcite) fracture filling. Gradational o/c.																
			170.00 170.30 Trace elements and gold, coarse grained massive andesite.	15337	170.00	170.30	.30	2.5		.30	.5	14.0	14	138	14	104.0	2.5	.1	68.0	136.0
172.20	198.77		**BRECCIATED ANDESITE**																	
			172.20 198.77 Andesite - variety of flows with breccia sections. At 172.2 - 174.35 m coarse grained massive > fine grained gradational O/C. At 174.35 - 175.14 m fine grained light buff-grey amygdaloidal pillowed. At 175.14 - 178.73 m strong development of carbonaceous fracture filling in medium grey green andesite. 5% of quartz-calcite stringers to 5 cm along foliation including black-white brecciated looking calcite as well. At 175.14 - 176.66 m there is 75% quartz-calcite-carbonaceous infilling of low - moderate angles to c.a. (fault ?? at 175.14 - graphitic 45 deg to c.a. > foliation then goes to low angle). At 1-78.73 - 178.88 m bullish white quartz minor calcite - dull chloritic clots 75 deg to c.a. Similar at 179.48 - 179.68 with intervening hard 'cherty' fine fragmental. From 179.68 (to ?) light																

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			grey-green variety of amygdaloidal and pillowed flows separated by flow top breccia with variable weak - strong intensity pervasive calcite alteration up to .5 m. Breccia sections with 0 - 2% disseminated pyrite and weak - moderate schistosity at 50 - 70 deg to c.a. At 189.7 - 190 m 5% hairline - 5 mm calcite infilling of low angle tension cracks. At 193.3 - 194.7 m, 5 - 15% dull pyrite in disseminated, bands, growths in flow breccia section. Broken schistose o/c at selvage.																
			175.14 176.00 0 - 2% pyrite, 75% quartz-calcite-carbonaceous infilling, breccia zone.	8597	175.14	176.00	.86	92.0												
			176.00 176.70 0 - 2% pyrite, 75% quartz-calcite-carbonaceous infilling, breccia zone.	8598	176.00	176.70	.70	2.5												
			176.70 177.92 0 - 2% pyrite, 5 - 10% quartz-calcite with fracture filling, medium-dark grey andesite.	8599	176.70	177.92	1.22	2.5												
			177.92 178.74 0 - 2% pyrite, 5 - 10% quartz-calcite with fracture filling, medium-dark grey andesite.	8600	177.92	178.74	.82	2.5												
			178.74 179.70 0 - 2% pyrite, 2 quartz stringers and cherty fragments.	15215	178.74	179.70	.96	10.0												
			180.80 181.10 Trace elements and gold.	15338	180.80	181.10	.30	10.0		.40	.5	14.0	13	105	16	142.0	2.5	.1	51.0	132.0
			191.45 191.75 Trace elements and gold, amygdaloidal andesite.	15339	191.45	191.75	.30	2.5		.40	.5	22.0	13	106	11	101.0	2.5	.1	66.0	223.0
			193.30 194.70 5 - 15% pyrite in flow breccia.	15216	193.30	194.70	1.40	33.0												
198.77	214.50		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			198.77 214.50 Soft, light - medium grey, medium - coarse grained massive andesite cut by up to 5% calcite some quartz hairline to 3 cm stringers along and crosscutting foliation (at 40 - 60 deg to C.A.). At 204.9 - 207.9 m core is blocky in country rock sections - chloritic altered and 10% quartz-calcite stringers. 205.7 - 206.88 and 207.18 - 207.3, quartz veins - some calcite at contacts and in fractures with 5 - 20% chloritic inclusions. Hydromuscovite at 206.1 m. Several specks of chalco pyrite along margins of chloritic inclusion at 206.6 - 206.89 m. 209 m abruptly becomes medium - dark grey soft - moderately hard, vague amygdaloidal - pillowed sections, as well as massive sections with microleucoxine 213.85 - 214.2 1% coarse cubic pyrite at 214.5 flow top breccia?.																
			202.70 203.00 Trace elements and gold, medium grey massive coarse grained andesite.	15340	202.70	203.00	.30	2.5		.40	.5	21.0	12	103	9	94.0	2.5	.1	75.0	159.0
			204.75 205.70 Trace to .5% pyrite, 10% quartz calcite stringers, chloritic massive andesite.	15217	204.75	205.70	.95	2.5												
			205.70 206.88 Trace to .5% pyrite, massive quartz (calcite) minor chalco pyrite, hydromuscovite.	15218	205.70	206.88	1.18	2.5												
			206.88 207.75 Trace to .5% pyrite, 1 quartz stringer chloritic massive andesite.	15219	206.88	207.75	.87	2.5												
			210.20 210.50 Trace elements and gold, vague pillowed-amygdaloidal, medium-dark grey andesite.	15341	210.20	210.50	.30	2.5		.40	.5	55.0	15	116	9	126.0	2.5	.1	83.0	185.0
			213.50 214.50 1 - 2% disseminated pyrite, dark grey andesite.	15220	213.50	214.50	1.00	2.5												
214.50	217.18		SPHERULITIC ANDESITE																	
			214.50 217.18 Very peculiar fragmental bleached - white - pale greenish torn up 'spherulitic' material with some zoning in individual clasts - these are flattened and piled upon each other with dark grey green chloritic matrix tops down hole from size gradation. Bedding 60 - 70 deg to c.a. Moderately hard > softer as unit becomes finer. 2 cm of quartz-calcite stringer at 80 deg to c.a. O/c.															
			214.50 215.50 'spherulitic' peculiar fragmental.	15221	214.50	215.50	1.00	2.5												
217.18	249.55		UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION																	
			217.18 249.55 Coarse fragmental unit dominantly medium-dark grey coarse-grained massive ('felted'), amygdaloidal, massive-fine leucoxene, local strong pervasive calcite alteration. At 226.3 - 228.5 m matrix is carbonaceous with up to 5% fuzzy irregular calcite stringers up to 2% disseminated fine-coarse cubic pyrite in clasts and matrix. At 231.5 - 240.5 m buffish light grey hard amygdaloidal pillowed flow with brecciation at a few chloritic selvages - with coarse																

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			cubic pyrite. 240.5 - 248.65 m buff light grey fragmental (tuffaceous agglomerate). Matrix is dark grey. 248.65 - 247.3 m buff massive andesite in-situ brecciated ie. Can fit clasts back together. Gradational o/c over 5 cm.																	
			226.40 227.90 2% pyrite, carbonaceous-chloritic-calcitic andesite, fracture filling.	15222	226.40	227.90	1.50	2.5												
			249.50 250.85 Chloritic andesite fragmental, 1 - 3% calcite, 1% pyrite.	15223	249.50	250.85	1.35	2.5												
249.55	254.00		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			249.55 254.00 Medium green chloritic andesite fragmental tuffaceous lapillistone, soft. Weak - strong pervasive calcite alteration. Variety of felsic clasts (plag, calcite, quartz), 1 - 3% calcite (quartz) stringers, bedding 55 - 65 deg to C.A. Grain size becomes finer down hole therefore tops down hole ie to the north. At 252.3 - 252.77 m clasts are bleached light green, occasionally zoned 'spherulitic' material as in 214.5 - 217.18 m with 10% pyrite bands in last 15 cm. Similar at 253.07 - 253.18 m 253.49 - 253.5 m calcite at 80 deg to c.a. Thin seam of gouge at o/c. Gradational o/c.															
			250.85 252.25 Chloritic andesite fragmental, 1 - 3% calcite, 1% pyrite.	15224	250.85	252.25	1.40	2.5												
			252.25 253.18 Two heavy pyritic fragmental units.	15225	252.25	253.18	.93	12.0												
			253.18 253.48 Trace elements and gold, massive andesite, carbonaceous-chloritic-calcitic, fracture filling.	15345	253.18	253.48	.30	2.5		.30	8.7	40.0	17	137	14	218.0	2.5	.1	43.0	856.0
254.00	260.20		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			254.00 260.20 Medium grey medium grained andesite, moderately hard, massive, pin point leucoxene, few calcite stringers, related to 'felted' andesites prior, 259.5 m onwards finer grained broken O/C.																	
260.20	278.85		PILLOWED ANDESITE																	
			260.20 278.85 Soft - moderately hard, buff light grey andesite. Amygdaloidal and pillowed with brecciated sections. 1 - 3% calcite (minor quartz) stringers along 50 - 65 deg to C.A. Foliation. At 275.45 - 275.55 m and 275 - 275.37 m quartz-calcite infilled breccia zones, irregular low-steep sharp contacts at 275.38 m 1 cm greyish fault gouge (quartz and calcite chunks) at 60 deg to c.a. At 275.8 - 275.9 m quartz-calcite breccia infilling similar to previous crosscuts earlier quartz-calcite stringer. Hematite stain along chloritic shear at 65 deg to c.a. At 275.89 and 276. Gradational o/c.															
			262.70 263.00 Trace elements and gold, medium green amygdaloidal pillowed andesite.	15346	262.70	263.00	.30	7.0		.60	.5	14.0	12	60	28	781.0	2.5	.1	86.0	26.0
			273.50 273.80 Trace elements and gold, amygdaloidal andesite, few calcite quartz stringers.	15347	273.50	273.80	.30	2.5		.50	.5	.5	23	113	17	148.0	2.5	.1	59.0	15.0
			274.25 275.32 Two quartz-calcite infilled breccia zones.	15226	274.25	275.32	1.07	6.0												
278.85	305.00		ANDESITE																	
			278.85 305.00 Carbonaceous tuffaceous agglomeratic andesite, varios hardnesses and reaction to HCL. Foliation - shears (quite often graphitic and occasionally hematite coated) are steeper at 60 - 80 deg to C.A. 281.1 m at 75 deg to C.A. Hairline grey fault gouge. Pyrite content 1 - 3% as fine-coarse cubic mainly in matrix but also in a few clasts. Recognizable leucoxene massive clasts both fine and coarse grained. Occasionally curvy and low angle joints are graphitic and or hematite stained ie 291.5 m, 293 m, 294.5 m, 302.5 m. From 293 m on, up to 3% calcite-quartz stringers and patches along foliation, at low angles. At 297.25 - 297.3 m white calcite stringer at 65 deg to c.a. At 302.3 - 303.1 curvy low angle graphitic hematite coated slickenside with parallel network of calcite stringers. At 303.76 m .5 cm gouge at 65 deg to c.a. Last 1 m becomes more medium (light) greyish with little variability in lithology.															
			281.00 282.50 Carbonaceous andesite fragmental, 2% disseminated pyrite.	15227	281.00	282.50	1.50	2.5												
			284.00 284.30 Trace elements and gold, carbonaceous andesite fragmental.	15348	284.00	284.30	.30	2.5		.30	3.3	32.0	18	164	7	146.0	2.5	.1	92.0	251.0

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			286.90 288.30 Carbonaceous andesite fragmental, 1% disseminated pyrite.	15228	286.90	288.30	1.40	2.5												
			291.10 292.50 Carbonaceous andesite fragmental, 2% disseminated pyrite.	15229	291.10	292.50	1.40	2.5												
			294.20 294.50 Trace elements and gold, carbonaceous andesite fragmental.	15349	294.20	294.50	.30	2.5		.30	.5	44.0	18	120	14	174.0	2.5	.1	92.0	181.0
			298.00 299.10 1% pyrite 3% calcite (quartz) carbonaceous andesite fragmental.	15230	298.00	299.10	1.10	2.5												
			305.00 END OF HOLE.																	

Timginn

TIMGINN PROPERTY

Drill Hole: DDH-016

Pages: 2

Rock Code Legend

- Overburden
- Brecciated andesite
- Carbonate exhalite
- Agglomerate
- Quartz
- Pillowed andesite
- Uniform dacite
- Dacite tuff
- Dacite agglomerate
- Uniform andesite or basalt, leucoxine alteration
- Andesite
- Pillowed dacite
- Spherulitic andesite
- Uniform (massive) andesite or basalt
- Graphitic tuff or interflow sediment
- Fault gouge
- Greywacke
- Porphyry
- Fault
- Andesite agglomerate
- Spherulitic dacite
- Black carbonate, graphitic fractured andesite

Date: 30 Sep, 1994

TIMGINN

Northing: 1115.0
Easting: -1287.0
Elevation: 337.3

Collar Azi.: 250.00
Collar Dip: -45.00

Hole Length: 119
Date Started: April 05/94

DRILL HOLE RECORD

*** Depth	Dip Tests Azi.	*** Dip	*** Depth	Dip Tests Azi.	*** Dip
116	250.0	-45.0			

Drill Hole: DDH-016

Easting: 12+87 W
Northing: 11+15 N
Property: TIMGINN PROPERTY
Drilled by: Bradley Brothers
Core Size: BQ
Completed: April 06/94
Logged by: RMG
Township: Tisdale

Local reference: NE Corner of ONR Station is 1000 N, 1500 W

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
.00	25.50		OVERBURDEN .00 25.50 0 - 23 m NW casing. Hole cemented at collar.																	
25.50	30.30		UNIFORM (MASSIVE) ANDESITE OR BASALT 25.50 30.30 Vam, grey green, fine-grained, calcitic no sign of quartz or sulphides. Blocky. 26.00 26.30 Geochem, vam, calcitic, blocky.	15351	26.00	26.30	.30	2.5		.40	.5	21.0	13	20	8	186.0	2.5	.3	61.0	299.0
30.30	30.90		UNIFORM (MASSIVE) ANDESITE OR BASALT 30.30 30.90 Vam, broken, pyritic in larger blocks, specks of ankerite (<3%).																	
30.90	34.00		UNIFORM (MASSIVE) ANDESITE OR BASALT 30.90 34.00 Vam, medium-grained, grey-green, 10% pyrite as blebs and stringers, stringers of sphalerite, 1 - 3 cm thick, generally along core, 1 - 2% of rock. Calcite and 10 - 20% ankerite. Pyrite and sphalerite in local 15 - 20 cm widths, gone by 34 m. 30.90 31.55 Vam, 20% py blebs and stringers, 5% sphalerite, au.	15234	30.90	31.55	.65	152.0												
34.00	68.70		UNIFORM (MASSIVE) ANDESITE OR BASALT 34.00 68.70 Vam, generally fine-grained, micro fractured, no sulphides, calcitic, rare specks of dolomite, increasing to 5% at 47 - 50 m. O.C. At 20 deg to C.A. 36.00 36.30 Vam, calcitic, micro fracture. 46.00 46.30 Vam, calcitic, stringers and pervas. 56.00 56.30 Vam, 30% pink calcite in 15 cm. 66.00 66.30 Vam, calcitic.	15352 15353 15354 15355	36.00 46.00 56.00 66.00	36.30 46.30 56.30 66.30	.30 .30 .30 .30	2.5 2.5 2.5 2.5		.50 .10 1.50 .50	8.2 1.6 15.0 7.3	15.0 .5 11.0 15.0	11 10 10 10	18 30 69 8	12 13 80 9	167.0 150.0 324.0 104.0	2.5 2.5 2.5 2.5	.1 .1 .3 .1	75.0 140.0 97.0 91.0	70.0 1056.0 8.0 158.0
68.70	80.70		ANDESITE 68.70 80.70 Vatf, lapilli, 20 deg C.A. At 69 - 70 m. Abundant calcite as blebs, stringers and abundant pervasive ankerite. Minor pyrite (< 2%). Lapilli densely packed 74 - 77 m at 35 deg to C.A. Microfractures dense at 55 deg to C.A., 78.5 - 79.4. O/c at 40 deg to c.a., a very few amygdules at lower contact. 76.00 76.30 Va lapilli, heavy calcite, moderate ankerite.	15356	76.00	76.30	.30	2.5		.70	4.1	15.0	12	29	12	149.0	2.5	.1	100.0	47.0
80.70	89.00		PILLOWED ANDESITE 80.70 89.00 Vapl (amygdaloidal). Dense amygdules 1 - 3 mm in diameter. Heavy calcitic alteration and calcite amygdules. Ropey and finely banded structures. Andesite becomes very dark at 88 m, considerable graphite, looks like flow mixed with graphitic sediment. Locally pyritic (to 10%). Pillows weakly formed, .3 m +/- diameter. 86.00 86.30 Va lapilli, calcite amygdules, 5% pyrite. 88.00 88.58 Brecciated va in graphitic matrix, 10% pyrite as stringers, calcitic, minor ankerite.	15357 15235	86.00 88.00	86.30 88.58	.30 .58	2.5 8.0		.90	.5	14.0	14	74	20	203.0	2.5	.1	44.0	11.0
89.00	92.10		UNIFORM (MASSIVE) ANDESITE OR BASALT 89.00 92.10 Interflow breccia, graphitic matrix (Sgbx) 10 - 25% sulphides as blebs and stringers, abundant slips. Top of N63 flow, likely ejecta into graphitic sediments.																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			89.00 90.00 Brecciated va in graphitic matrix, 45% fragments, 15% pyrite, calcitic, minor ankerite.	15236	89.00	90.00	1.00	6.0												
			90.00 91.00 Brecciated va in graphitic matrix, 60% fragments, 15% pyrite, calcitic, minor ankerite.	15237	90.00	91.00	1.00	2.5												
			91.00 91.30 Brecciated va in graphitic matrix, 60% fragments, 15% pyrite, calcitic, minor ankerite.	15358	91.00	91.30	.30	12.0		1.70	.5	21.0	15	410	42	4463.0	2.5	.6	31.0	5.0
			91.30 92.10 Largely graphite, broken fragments. Blocky, final 20 cm quartz calcite vein with graphitic laminae.	15238	91.30	92.10	.80	11.0												
92.10	111.50		UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION																	
			92.10 111.50 Valx (95 flow) - uniform massive medium green, medium-grained andesite, abundant leucoxine, pervasive calcite alteration. Graphitic 'SEAMS' incorporated at beginning section. The lava lacks structure except for a few dark graphitic bands and calcite-quartz stringers to 2 cm. One such vein follows 106.3, is 45 cm wide. Not sampled. Graphitic band at 109.5 m is 68 deg to c.a. O/c 60 deg to c.a., irregular.																
			96.00 96.30 Leucoxene-rich andesite, calcitic.	15359	96.00	96.30	.30	2.5		.50	8.8	14.0	18	78	16	178.0	2.5	.1	53.0	168.0
			106.00 106.30 Leucoxene-rich andesite, calcitic.	15360	106.00	106.30	.30	2.5		.60	5.3	12.0	24	47	18	158.0	2.5	.3	69.0	40.0
111.50	119.00		BLACK CARBONATE, GRAPHITIC FRACTURED ANDESITE																	
			111.50 119.00 Vamc - Vam cut by irregular stringers and bands of black (graphitic) chert or argillite, calcitic, coarse specks of ankerite.																	
			116.00 116.30 Andesite, narrow graphitic stringers, calcitic.	15361	116.00	116.30	.30	2.5		.60	30.0	14.0	20	63	16	199.0	2.5	.1	54.0	176.0
			119.00 END OF HOLE.																	

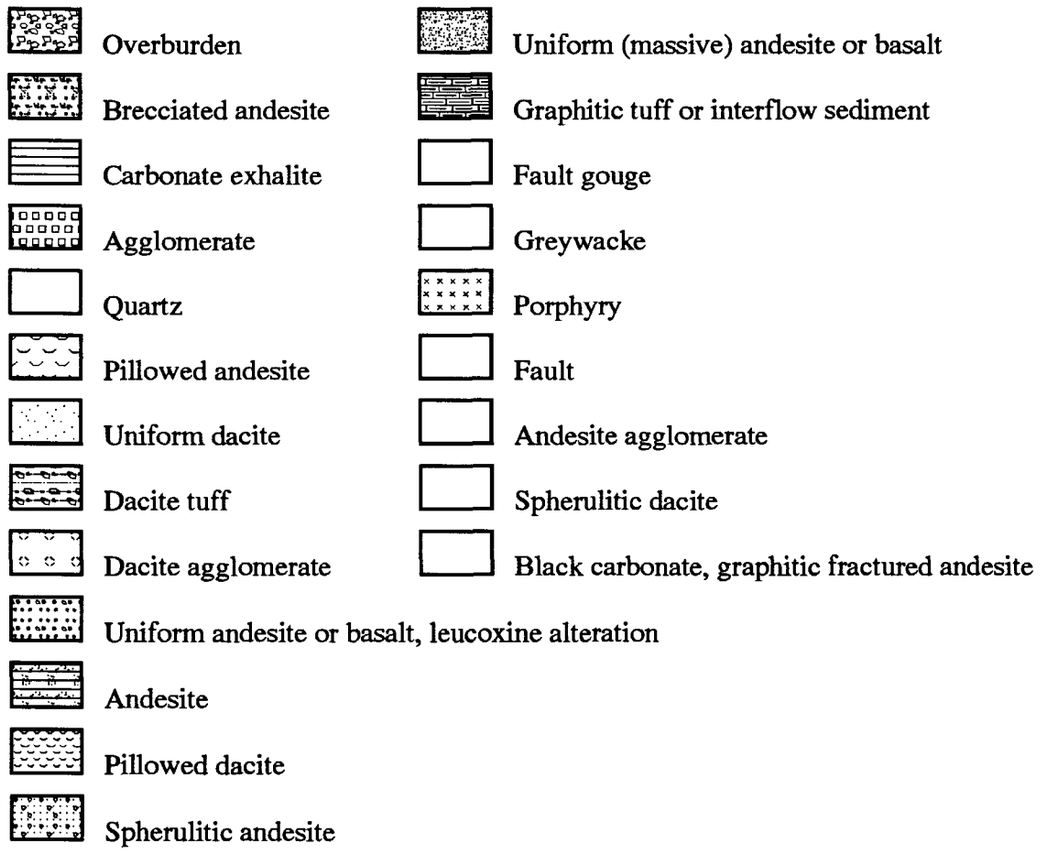
Timginn

TIMGINN PROPERTY

Drill Hole: DDH-017

Pages: 4

Rock Code Legend



Date: 30 Sep, 1994

TIMGINN

Northing: 1118.0
Easting: -1297.0
Elevation: 337.3

DRILL HOLE RECORD

*** Depth	Dip Tests Azi.	*** Dip	*** Depth	Dip Tests Azi.	*** Dip
115	306.0	-37.0			

Drill Hole: DDH-017

Collar Azi.: 290.00
Collar Dip: -45.00

Hole Length: 275
Date Started: April 07/94

Easting: 12+87 W
Northing: 11+15 N
Property: TIMGINN PROPERTY
Drilled by: Bradley Brothers
Core Size: BQ
Completed: April 09/94
Logged by: RMG
Township: Tisdale

Local reference: NE Corner of ONR Station is 1000 N, 1500 W

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
.00	25.00		OVERBURDEN .00 25.00 NW casing. Hole cemented at collar.																	
25.00	53.00		UNIFORM (MASSIVE) ANDESITE OR BASALT 25.00 53.00 Vam, fine to medium-grained, medium green, massive, uniform andesite. Pervasive calcitic alteration. Little veining 34.95 - 35.08 m quartz calcite vein (white). Not sampled. Minor pervasive ankerite following 38.0 m, increasing to moderate at 41 m with a few ankerite-pyrite veins at 55 deg to c.a.																
			25.00 25.30 Uniform vam.	15362	25.00	25.30	.30	2.5		.40	6.3	11.0	8	16	10	146.0	2.5	.1	94.0	114.0
			35.00 35.30 Uniform vam. Quartz stringers 2 - 15 mm.	15363	35.00	35.30	.30	2.5		.90	1.4	17.0	9	20	19	219.0	2.5	.1	82.0	82.0
			45.00 45.30 Uniform vam, dark green, fine - medium-grained.	15364	45.00	45.30	.30	2.5		.80	1.4	22.0	10	14	15	391.0	2.5	.1	61.0	18.0
53.00	60.00		ANDESITE 53.00 60.00 Vatf - flow top of previous flow.																	
			54.00 54.30 63/95 contact - tuffaceous, ankerite (no pyrite).	15423	54.00	54.30	.30	2.5		.80	2.2	20.0	18	75	20	143.0	2.5	.1	39.0	28.0
			55.00 55.30 63/95 contact - tuffaceous, (no graphite), very minor pyrite, very calcitic.	15365	55.00	55.30	.30	2.5		.60	4.9	.5	17	14	14	169.0	2.5	.1	37.0	23.0
			58.85 59.50 63/95 contact, tuffaceous, very ankeritic, calcitic. No pyrite.	15424	58.85	59.50	.65	2.5		.80	.5	18.0	15	14	18	209.0	2.5	.1	32.0	11.0
			59.50 59.92 As above.	15425	59.50	59.92	.42	6.0		1.00	2.7	10.0	22	109	24	354.0	2.5	.1	26.0	6.0
60.00	75.70		UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION 60.00 75.70 Valx, fine-grained at I/C, coarsening below 64.0 m, diabasic texture below 68 m with abundant leucoxene. Graphitic bands 1 cm to 6 cm wide at 70 deg to 90 deg to C.A. From 67 - 69.5 m. Abrupt O/C, medium-grained uniform 'diorite' against aphanitic lava.																
			65.00 65.30 Vam, grey green, leucoxene.	15366	65.00	65.30	.30	6.0		1.00	2.0	11.0	13	133	20	150.0	2.5	.1	152.0	69.0
			75.00 75.30 Vam, dioritic, no alteration.	15367	75.00	75.30	.30	2.5		.60	.5	19.0	11	145	19	162.0	2.5	.1	229.0	15.0
75.70	82.20		BLACK CARBONATE, GRAPHITIC FRACTURED ANDESITE 75.70 82.20 Vamc at base, Vapl in middle, 2nd upper part of flow. Leucoxine in most of flow, chilled top. The graphitic matrix to fragments (dykes?) is essentially gone by 76.7 m, only sparse 1 - 3 mm sections following.																
82.20	83.50		PILLOWED ANDESITE 82.20 83.50 Vapl, amygdaloidal, apple green, aphanitic. Both contacts bounded by 2 cm graphitic bands and calcite.																
83.50	88.85		UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION 83.50 88.85 Valx, medium green, medium-grained, fine-grained leucoxine, calcitic, both pervasive and 1 cm stringers (sparse).																
			85.00 85.30 Fine - medium-grained dark green andesite, calcitic.	15368	85.00	85.30	.30	2.5		.70	6.0	12.0	31	134	16	140.0	2.5	.1	73.0	35.0
88.85	92.00		BLACK CARBONATE, GRAPHITIC FRACTURED ANDESITE 88.85 92.00 Vamc - graphitic andesite.																
92.00	102.00		UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION 92.00 102.00 Valx with increasing amount of graphitic infilling downhole, drusy																

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			pyrite to 30% across 4 cm, sections not sampled. Highly calcitic pervasive alteration, grey calcite veins increasing down hole, with minor white stringers. Leucoxene locally abundant, gernerally moderate.																	
			95.00 95.30 Vam, fine - medium-grained, leucoxine.	15369	95.00	95.30	.30	2.5		.80	1.6	22.0	17	92	20	133.0	2.5	.1	62.0	12.0
102.00	106.10		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			102.00 106.10 Vam, aphanitic, heavily calcitic, grey bands calcite to 6 cm thick. Sparse 1 cm ankerite stringers (pervasive around 2 mm veinlets).																	
			105.00 105.30 Vd, aphanitic, hard, flinty, very calcitic.	15370	105.00	105.30	.30	2.5		.30	4.7	.5	18	121	14	115.0	2.5	.1	75.0	19.0
106.10	146.50		**AGGLOMERATE**																	
			106.10 146.50 Heterolithic agglomerate, fragments of aphanitic grey andesite, leucoxene green andesite, pyrite (rare), pyrrhotite and chalco pyrite (more) graphitic chert. Calcitic alteration. Fragments densely packed, 1 - 3 cm long, commonly 55 - 60 deg to c.a. Brick red sphalerite occurs as dusty zones of stringers or as descrete stringers with or without calcite and / or graphite. In section 144.2 - 149 for example, pyrite amounts to 8% of rock, concentrated in local 2 cm bands - 25% pyrite and sparse disseminated grains and blobs 2 - 10 mm.																	
			115.00 115.30 Heterolithic breccia, disseminated pyrite, calcitic.	15371	115.00	115.30	.30	2.5		.50	.5	12.0	19	84	13	125.0	2.5	.1	39.0	108.0
			125.00 125.30 As above, graphitic.	15372	125.00	125.30	.30	8.0		.50	.5	28.0	21	91	16	175.0	2.5	.1	52.0	124.0
			134.00 134.20 Agglomerate, 15% red sphalerite, as dusting.	15239	134.00	134.20	.20	2.5												
			135.00 135.30 As above, 2% pyrite, graphitic.	15373	135.00	135.30	.30	7.0		.60	10.0	20.0	24	102	14	123.0	2.5	.1	39.0	63.0
			145.00 145.30 Agglomerate, andesite fragments to 1.5 cm in 60% carbonaceous argillite matrix 8% pyrite, weakly calcitic alteration.	15374	145.00	145.30	.30	8.0		.40	3.0	20.0	18	119	11	120.0	2.5	.1	67.0	135.0
146.50	150.50		**AGGLOMERATE**																	
			146.50 150.50 Rhyolitic agglomerate. At 147.5 m, 60 deg to C.A., andesite-rich band 15 cm thick in rhyolitic agglomerate, fragments ropy, fractured. Gradational over .5 m +/-, to dominantly light grey, flinty rhyolite flows with andesite fragments. Gradational o/c to mixed ejecta in graphitic mudstone.																	
150.50	160.30		**AGGLOMERATE**																	
			150.50 160.30 Agglomerate, dominantly andesitic but with 30% rhyolite fragments in graphitic mudstone matrix, locally sheared and highly crystalline graphite (20%). Generally low pyrite, 158 - 159 m 20% white calcite stringers to 3 cm, contorted laminae.																	
			155.00 155.30 Fragmental tuff, graphitic mudstone matrix, < 2% pyrite, calcitic alteration.	15375	155.00	155.30	.30	2.5		.30	7.3	29.0	17	99	11	146.0	2.5	.1	51.0	126.0
160.30	185.00		**DACITE TUFF**																	
			160.30 185.00 Vdtf, initially (I/C) medium grey aphanitic massive flow to 166 m then bedded, becoming laminated at 168.5 - 168.9 m. Calcitic and ankeritic. Bedding locally contorted but generally 60 deg C.A. Minor (< 1%) pyrite as discrete grains. Stain test indicates iron-rich calcite is the dominant alteration following 172 m to about 177 m, increasing ankeritic thereafter. Bedding generally 155 deg to c.a. But sections contorted, notably 182 - 183 m where it is generally parallel c.a.																	
			162.36 162.96 65% white quartz-calcite ribbon veins, no pyrite, cutting ankeritic dacite at 75 - 90 deg to c.a. Minor epidote grains.	15240	162.36	162.96	.60	2.5												
			165.00 165.30 Dacite flow, a few calcite stringers, dolomite or ankerite alteration.	15376	165.00	165.30	.30	11.0		.30	.5	25.0	19	114	9	76.0	2.5	.1	45.0	189.0
			175.00 175.30 Varied ashy tuff, laminae 1 - 2 mm, fe rich calcite alteration abundant.	15377	175.00	175.30	.30	10.0		.10	1.1	27.0	16	113	11	78.0	2.5	.1	73.0	112.0
185.00	206.00		**UNIFORM DACITE**																	
			185.00 206.00 Dacite (flows) and tuff, medium grey, aphanitic, highly altered calcitic and ankeritic. Well laminated after initial 2 m flowy section, generally 75 - 85 deg to C.A. Local crenulations, local																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			lapilli (minor) including graphitic chert to 1 cm long.																	
			185.00 185.30 Rhyo-dacite tuff and flow. No significant pyrite. Calcitic and ankeritic.	15378	185.00	185.30	.30	8.0		.30	.5	18.0	11	109	14	67.0	2.5	.1	69.0	140.0
			186.30 186.80 Dacite tuff, 50 deg c.a., 30% pyrite beds across 1 - 2 cm, 5% total in section. Fe-calcite alteration.	15241	186.30	186.80	.50	23.0												
			195.00 195.30 Dacite flow, fe-calcite alteration.	15379	195.00	195.30	.30	7.0		.10	.5	33.0	13	120	12	68.0	2.5	.1	48.0	81.0
			196.40 196.90 Vdtf, calcitic, 10% pyrite.	15242	196.40	196.90	.50	38.0												
			205.00 205.30 Vdtf, lapilli, fe-calcitic alteration.	15380	205.00	205.30	.30	6.0		.40	1.2	24.0	14	126	13	102.0	2.5	.1	58.0	96.0
			205.36 205.62 Vdbx, ankeritic, 10% pyrite.	15243	205.36	205.62	.26	15.0												
206.00	224.10		UNIFORM DACITE																	
			206.00 224.10 Vd, brecciated, probable fault but minor. Following section to 225.3 m contains numerous veins with pyrite and chalco pyrite, likely a feathering of the south branch of the Fifth Ave fault. The lava is uniform with bands of broader banding, no evident lapilli or agglomeratic fragments. Commonly banded 75 - 85 deg c.a. Pervasively sericitized and fe-calcitic alteration. Note: not all vein - pyrite zones sampled. They are commonly 10 - 15 cm wide. To resample if results warrant.															
			206.00 206.30 Narrow minor fault, calcitic, ankeritic.	15381	206.00	206.30	.30	10.0		.10	5.2	42.0	11	89	17	94.0	2.5	.4	67.0	109.0
			206.60 206.80 Vdtf, laminated, 80% c.a., 40% handed crenulated quartz ankerite, 15% pyrite.	15244	206.60	206.80	.20	11.0												
			209.50 209.80 Vdtf, laminated, crushed vein 25% of section, with 15% pyrite.	15245	209.50	209.80	.30	13.0												
			214.00 214.40 Fault, 12 cm of white quartz, rest 40% crushed grey quartz-ankerite in va.	15248	214.00	214.40	.40	24.0												
			215.00 215.30 Vd.	15382	215.00	215.30	.30	11.0		.10	4.1	26.0	11	121	14	80.0	2.5	.4	87.0	103.0
			215.50 215.95 Va/d, 50% quartz, ankerite, calcite.	15246	215.50	215.95	.45	16.0												
			216.92 217.50 60% quartz and fe-calc veins, fault zone.	15383	216.92	217.50	.58	15.0		.10	13.0	20.0	6	65	19	41.0	2.5	.1	67.0	45.0
			220.25 220.60 Crush-sheared vd, 50% vein with dusty pyrite.	15384	220.25	220.60	.35	23.0		.10	7.8	19.0	7	76	18	52.0	2.5	.1	83.0	87.0
			221.94 222.38 Crush zone breccia, banded 90 deg c.a. Sericitic.	15385	221.94	222.38	.44	34.0		.10	10.0	14.0	10	80	20	77.0	2.5	.5	72.0	75.0
224.10	225.50		FAULT																	
			224.10 225.50 Fault zone - numerous sericitic slip veinlets, fragments rotated, 10 - 20% pyrite, 25% vein quartz - grey calcite, at end of section.																	
			224.12 224.92 Fault breccia, 15% pyrite.	15386	224.12	224.92	.80	25.0		.30	29.0	35.0	10	91	19	77.0	2.5	.9	87.0	101.0
			224.92 225.30 Fault breccia, < 4% pyrite, sericitic, 30% quartz vein.	15387	224.92	225.30	.38	11.0		.10	10.0	31.0	7	47	17	66.0	2.5	.1	59.0	31.0
225.50	248.00		UNIFORM DACITE																	
			225.50 248.00 Vd, flow banded, not tuffaceous but similar to rock in faulted section above. Fewer breccia zones and veins, pervasive alteration of Fe rich calcite by stain test, waxy green as in previous section. Massive, uniform upward in hole, amygdaloidal pillows below flow bands, 235 m c.a. To 80 - 90 deg.																	
			227.50 227.61 Quartz ankerite-calcite vein, 25% pyrite.	15247	227.50	227.61	.11	47.0												
			235.00 235.30 Vdm, calcitic alteration.	15388	235.00	235.30	.30	7.0		.50	1.1	25.0	12	113	14	75.0	2.5	.1	76.0	75.0
			245.00 245.30 Vdpl amygdaloidal, minor veining, calcitic and ankeritic alteration.	15389	245.00	245.30	.30	8.0		.50	2.9	25.0	15	130	15	92.0	2.5	.1	68.0	82.0
248.00	249.30		UNIFORM DACITE																	
			248.00 249.30 Vd, numerous slips at 60 deg C.A., 20% quartz calcite veins to 3 cm. Ankerite alteration.																	
			248.15 249.20 Vdpl, numerous slips, 20% quartz calcite veins < 3% pyrite, specks chalco pyrite.	15390	248.15	249.20	1.05	6.0		.10	2.4	27.0	13	99	12	67.0	2.5	.1	111.0	89.0
			249.20 249.55 Fifth avenue fault, 50% quartz.	15391	249.20	249.55	.35	2.5		.10	.5	58.0	10	49	9	50.0	2.5	.1	83.0	81.0
249.30	249.66		FAULT																	
			249.30 249.66 Fault zone (Fifth Avenue), veins and fractures 80 deg to C.A. Ankeritic-quartz-calcite and gouge.																	
249.66	275.00		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			249.66 275.00 Vam, medium green, fine - medium-grained, calcitic alteration (Fe-rich), unstructured. Whispy quartz stringers sparse at 254.5 m, increasing in size and number down hole. Irregular in shape,																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			swirly, to 25% of rock by 270 - 274.5 m.																	
			255.00 255.30 Vam, weakly calcitic alteration.	15392	255.00	255.30	.30	2.5		.10	.5	.5	14	100	14	73.0	2.5	.1	59.0	62.0
			265.00 265.30 Vam, 5% blobby quartz veins.	15393	265.00	265.30	.30	2.5		.60	.5	11.0	14	111	16	71.0	2.5	.1	72.0	7.0
			274.30 274.44 Vein, 65% quartz, 25% calcite, no pyrite.	15249	274.30	274.44	.14	7.0												
			274.70 275.00 Vam, uniform.	15394	274.70	275.00	.30	2.5		.40	.5	27.0	12	95	14	85.0	2.5	.2	77.0	260.0
			275.00 END OF HOLE.																	

Timginn

TIMGINN PROPERTY

Drill Hole: DDH-018

Pages: 3

Rock Code Legend

- Overburden
- Brecciated andesite
- Carbonate exhalite
- Agglomerate
- Quartz
- Pillowed andesite
- Uniform dacite
- Dacite tuff
- Dacite agglomerate
- Uniform andesite or basalt, leucoxine alteration
- Andesite
- Pillowed dacite
- Spherulitic andesite
- Uniform (massive) andesite or basalt
- Graphitic tuff or interflow sediment
- Fault gouge
- Greywacke
- Porphyry
- Fault
- Andesite agglomerate
- Spherulitic dacite
- Black carbonate, graphitic fractured andesite

Date: 30 Sep, 1994

TIMGINN

DRILL HOLE RECORD

Northing: 1118.0
Easting: -1297.0
Elevation: 337.3

Collar Azi.: 340.00
Collar Dip: -45.00

Hole Length: 239
Date Started: April 09/94

*** Depth	Dip Tests Azi.	*** Dip	*** Depth	Dip Tests Azi.	*** Dip
29		-43.0	200	339.0	-39.0
100	344.0	-43.0			

Drill Hole: DDH-018

Easting: 12+87 W
Northing: 11+15 N
Property: TIMGINN PROPERTY
Drilled by: Bradley Brothers
Core Size: BQ
Completed: April 11/94
Logged by: RMG
Township: Tisdale

Local reference: NE Corner of ONR Station is 1000 N, 1500 W

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
.00	25.00		**OVERBURDEN** .00 25.00 0 - 25 m NW casing. Hole cemented at collar.																	
25.00	50.00		**UNIFORM (MASSIVE) ANDESITE OR BASALT** 25.00 50.00 Vam, fine - medium-grained, medium - very dark green, local microfractures (primary).																	
			25.70 26.00 Vam - featureless.	15395	25.70	26.00	.30	2.5		.40	.5	10.0	11	47	37	118.0	2.5	.1	80.0	24.0
			36.00 36.30 Vam - featureless.	15396	36.00	36.30	.30	2.5		.60	.5	.5	12	31	48	246.0	2.5	.1	66.0	18.0
			46.00 46.30 Vam - featureless.	15397	46.00	46.30	.30	2.5		.80	2.8	15.0	14	13	16	112.0	2.5	.1	46.0	16.0
50.00	52.80		**BRECCIATED ANDESITE** 50.00 52.80 Flow top breccia (brecciated andesite??), ash, graphite from 50 to 52.8 m foliated at 50 deg to C.A. Calcitic flow top. Top of 63 flow. (Two photos).																	
			50.80 51.80 Vtf, lapilli at base to ashy in last 50 cm, 8 cm of fe-rich calcite vein at 51.4 m - .48.	15398	50.80	51.80	1.00	2.5		1.00	.5	15.0	11	20	50	258.0	2.5	.1	35.0	181.0
			51.80 52.80 Vtf, ashy tuff, hyaloclastite, carbonaceous.	15399	51.80	52.80	1.00	2.5		1.00	1.0	10.0	11	106	59	588.0	2.5	.3	46.0	148.0
52.80	64.00		**PILLOWED DACITE** 52.80 64.00 Vdpl, pillows local, 16 - 30 cm across. Hard, light grey green aphanitic rock. Monor calcite.																	
			56.00 56.30 Aphanitic pillow lava, calcitic.	15400	56.00	56.30	.30	2.5		.60	.5	11.0	15	123	19	118.0	2.5	.1	110.0	15.0
64.00	82.50		**UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION** 64.00 82.50 Valx, medium to coarse-grained andesite abundant leucoxene, moderate calcite alteration. Local minor infilling of graphitic sediment, at 60 deg to C.A. Local white to grey calcite stringers. Graphitic infilling increases following 81 m, flow finer-grained, leucoxine less obvious following 82.5 m.																	
			66.00 66.30 Valx, coarse-grained, abundant leucoxene.	15401	66.00	66.30	.30	2.5		.60	5.1	14.0	14	121	20	112.0	2.5	.1	180.0	18.0
			76.00 76.30 Valx, medium-grained, abundant leucoxene.	15402	76.00	76.30	.30	2.5		.70	4.9	.5	13	188	22	140.0	2.5	.1	124.0	15.0
82.50	121.50		**BLACK CARBONATE, GRAPHITIC FRACTURED ANDESITE** 82.50 121.50 Vamc - graphitic infilled fine-grained andesite, black amorphous graphitic sediment amounts to 10% of rock, enclosing fragments of fine-grained slightly leucoxine-bearing andesite, grey green. Minor pyrite, rare chalco pyrite grains. Banded at 60 deg to c.a. At 119.5 m.																	
			86.00 86.30 Vamc.	15403	86.00	86.30	.30	2.5		.70	2.1	15.0	18	219	45	422.0	2.5	.1	30.0	36.0
			96.00 96.30 Vamc.	15404	96.00	96.30	.30	2.5		.30	3.2	.5	14	181	28	269.0	2.5	.1	42.0	63.0
			106.00 106.30 Vaplc, graphitic bands at 60 deg to c.a., amygdaloidal pillows.	15405	106.00	106.30	.30	2.5		.50	10.0	18.0	17	132	20	208.0	2.5	.1	39.0	23.0
			116.00 116.30 Vamc, styolithic graphitic bands around elliptical fragments.	15406	116.00	116.30	.30	2.5		.60	4.4	11.0	24	108	17	115.0	2.5	.1	88.0	30.0
			120.40 120.80 Fault zone, 15% drusy pyrite calcitic alteration.	15408	120.40	120.80	.40	12.0		2.00	3.3	11.0	24	265	1799	7140.0	2.5	2.1	18.0	17.0
121.50	122.06		**FAULT** 121.50 122.06 Fault - graphitic, ground core - gouge.																	
			121.80 122.10 Fault zone, gouge, graphite.	15409	121.80	122.10	.30	9.0		1.80	5.8	19.0	21	175	3403	20000.0	2.5	1.1	38.0	160.0
122.06	148.28		**AGGLOMERATE**																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			122.06 148.28 Agglomerate - densely packed assorted fragments, commonly crushed and truncated - much movement in this zone, conspicuous pyrite as whisps and blebs. Calcite and ankerite alteration. Fragments dominantly dacitic, andesite matrix at beginning of section, more mafic fragments down the hole. Slips and local crush breccias throughout the section.																	
			126.00 126.30 Brecciated agglomerate, silicified, 10% pyrite.	15407	126.00	126.30	.30	2.5		.80	7.6	18.0	19	106	19	147.0	2.5	.1	48.0	264.0
			127.16 127.86 Brecciated agglomerate, 10% pyrite.	15250	127.16	127.86	.70	2.5												
			128.60 129.05 Notes not taken.	15251	128.60	129.05	.45	2.5												
			132.85 133.50 Breccia, 8% pyrite, calcitic and ankeritic. Drusy pyrite in chloritic matrix.	15410	132.85	133.50	.65	2.5		.80	3.7	11.0	17	148	30	217.0	2.5	.1	62.0	48.0
			136.00 136.30 Andesite agglomerate.	15411	136.00	136.30	.30	2.5		.50	8.9	26.0	17	95	37	211.0	2.5	.1	66.0	127.0
148.28	148.50		FAULT																	
			148.28 148.50 Fifth Avenue fault - Black hard matrix, andesite fragments. Gouge at O/C at 50 deg to C.A.																	
			148.28 148.50 Fifth avenue fault - black hard matrix, andesite fragments gouge at o/c at 50 deg to c.a.	15413	148.28	148.50	.22	9.0		1.10	7.4	15.0	21	137	23	94.0	2.5	.4	51.0	197.0
148.50	152.30		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			148.50 152.30 Andesite, silicified, numerous quartz stringers with sericite, pyrite (2% of total). Both pyrite and silica diminish to 'fade out' at 152.3 m.																	
			149.90 150.30 Notes not taken.	15252	149.90	150.30	.40	6.0												
152.30	159.80		PILLOWED ANDESITE																	
			152.30 159.80 Vapl, grey-green, sparse amygdules, narrow pillow selvages, 20 - 30 cm pillows.																	
			156.00 156.30 Vapl, calcitic alteration.	15414	156.00	156.30	.30	2.5		.50	.5	14.0	14	133	16	90.0	2.5	.1	66.0	17.0
159.80	173.20		ANDESITE																	
			159.80 173.20 Vatf, thin amygdaloidal flows, (medium green colour) bedded at 60 deg to C.A., sparse wisps of yellow sericite (minor), increasing to 20% at 167 m, 35% at 173 m.																	
			166.00 166.30 Vatf, sericite to 15%.	15415	166.00	166.30	.30	9.0		.30	.5	26.0	17	128	14	79.0	2.5	.3	66.0	216.0
173.20	177.40		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			173.20 177.40 Vam, intensley sericitized, yellow-green highly calcitic, ankeritic sringers (pre-calcite), sericite diminishes from intense to 15%. At 177.4 m 15 cm band of 50% pyrite at O/C.																	
			175.15 175.32 Ankeritic, calcitic, sericitic pyritic vatf.	15254	175.15	175.32	.17	13.0												
			176.00 176.30 Sericitized vatf, ankeritic.	15416	176.00	176.30	.30	2.5		.70	.5	.5	20	110	24	102.0	2.5	.1	51.0	6.0
			177.25 177.40 50% pyrite in calcitic sericitic andesite.	15253	177.25	177.40	.15	379.0	■											
177.40	194.00		ANDESITE																	
			177.40 194.00 Vatf - ropey, grey hard, calcitic. Not a laminated tuff, but fused lapilli at 65 deg to C.A., narrow small amygdules. Flow bands swirly in sections, parallel to C.A. At 186.5 m, generally 60 deg +/-. The banding lessens down hole, thin amygdaloidal flows, gradational to vapl.																	
			186.00 186.30 Swirly fe-calcite rich va flows.	15417	186.00	186.30	.30	18.0		.40	1.5	21.0	15	133	17	81.0	2.5	.1	87.0	136.0
194.00	203.00		PILLOWED ANDESITE																	
			194.00 203.00 Vapl, amygdaloidal, tuffaceous sections as above.																	
			196.00 196.30 Banded vapl (ropey tuff).	15420	196.00	196.30	.30	6.0		.30	1.6	13.0	13	121	16	85.0	2.5	.1	77.0	104.0
203.00	211.40		ANDESITE																	
			203.00 211.40 Fractured Vatf, numerous ankerite-calcite-quartz veins with 10 - 30% pyrite, fragments ankeritic, matrix of vein breccia dominantly Fe-rich calcite. The chloritic-sericitic lava commonly contains 30 - 60% pyrite across 10 - 30 cm sections. Fault zone? (gillies lake?).																	
			204.30 204.85 Cacite sericite, vein cutting chloritic va with 2 - 2 cm bands 60% pyrite.	15255	204.30	204.85	.55	27.0												

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			206.00 206.40 Mottled white fe-rich calcite vein, chloritic/sericitic fragments, < 2% pyrite.	15418	206.00	206.40	.40	2.5		.10	.5	62.0	8	7	26	64.0	2.5	.1	122.0	9.0
			206.40 206.95 60% pyrite in fractured ankerite calcite matrix.	15256	206.40	206.95	.55	24.0												
			206.95 207.58 Fractured va, ankeritic, 15% pyrite.	15257	206.95	207.58	.63	10.0												
			207.58 208.13 Fractured va, ankeritic, 10% pyrite.	15258	207.58	208.13	.55	7.0												
			208.30 208.70 Fractured, silicified, ankeritic andesite, calcitic matrix, 15% pyrite.	15259	208.30	208.70	.40	8.0												
			209.25 210.25 Fractured va as above, 25% pyrite.	15260	209.25	210.25	1.00	21.0												
			210.30 210.70 15 cm quartz calcite vein cutting ankeritic vatf with 20% pyrite.	15261	210.30	210.70	.40	10.0												
			210.96 211.38 Ankeritic fractured va, 15% pyrite.	15262	210.96	211.38	.42	13.0												
211.40	216.30		ANDESITE																	
			211.40 216.30 Vatf - Banding 3 mm thick common with lenticular fragments. Medium grey, aphanitic, highly calcitic alteration, bands and slips of waxy yellow sericite, local knots of pyrite. The zone from 216 to 216.3 m being the last carbonate-pyrite zone of the above fault suite. Arbitrary o/c, fewer laminations, more massive va.																	
			216.00 216.30 Vatf 40% fe-rich calcite, 25% pyrite.	15419	216.00	216.30	.30	30.0		.60	35.0	11.0	6	48	25	104.0	2.5	1.0	74.0	90.0
216.30	239.00		PILLOWED ANDESITE																	
			216.30 239.00 Vapl - transitional from tuffaceous, still medium grey, fine-grained, thinning sericite, suggestions of small pillows, commonly amygdaloidal. Locally banded (tuffaceous) at 60 deg to C.A. Light to medium grey, generally aphanitic to very fine-grained.																	
			226.00 226.30 Vapl, amygdaloidal; no pyrite.	15421	226.00	226.30	.30	11.0		.30	1.8	17.0	11	122	14	77.0	2.5	.3	94.0	122.0
			236.00 236.30 Vapl, amygdaloidal; no pyrite.	15422	236.00	236.30	.30	6.0		.40	.5	27.0	12	98	14	77.0	2.5	.1	91.0	126.0
			239.00 END OF HOLE.																	

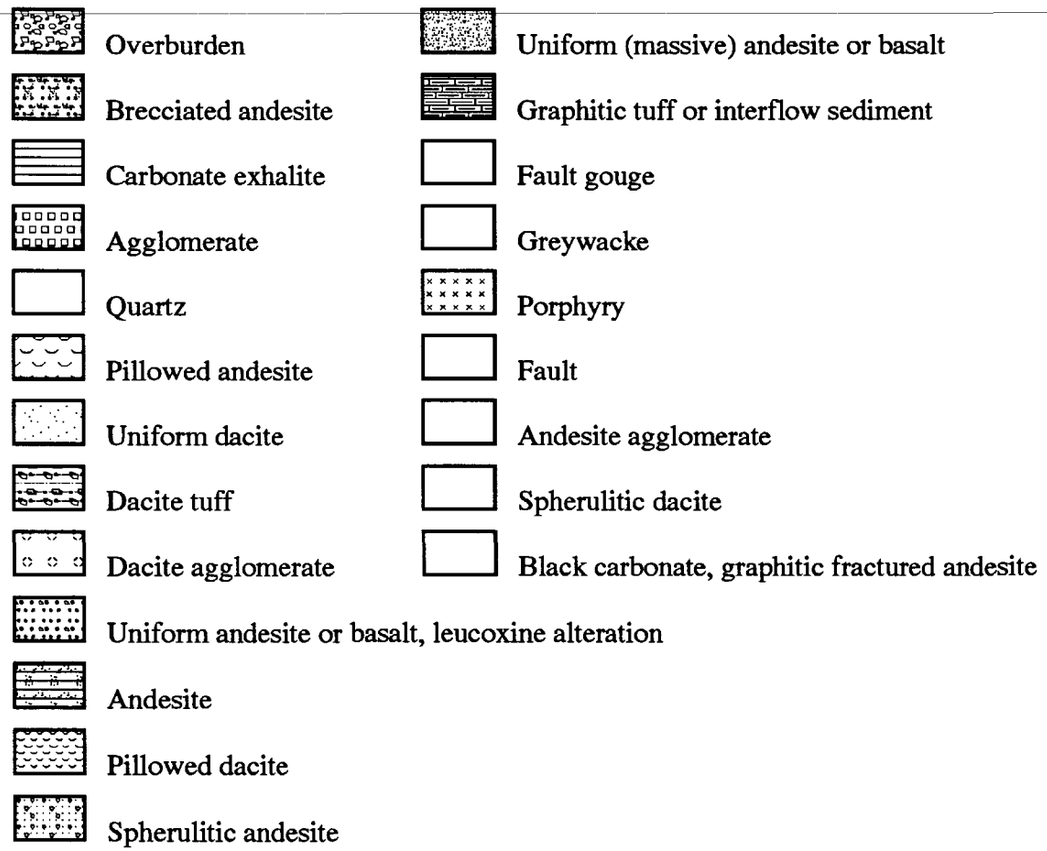
Timginn

TIMGINN PROPERTY

Drill Hole: DDH-012

Pages: 6

Rock Code Legend



Date: 7 Nov, 1994

TIMGINN

DRILL HOLE RECORD

Northing: 1611.0
Easting: -1047.0
Elevation: 306.2

Collar Azi.: 150.00
Collar Dip: -45.00

Hole Length: 332
Date Started: January 25/94

*** Depth	Dip Tests Azi.	*** Dip	*** Depth	Dip Tests Azi.	*** Dip
50		-43.5	230	168.5	-31.0
130	162.5	-40.0			

Drill Hole: DDH-012

Easting: 10+35 W
Northing: 16+14 N
Property: TIMGINN PROPERTY
Drilled by: Bradley Brothers
Core Size: BQ
Completed: January 29/94
Logged by: RJL
Township: Tisdale

Local reference: NE Corner of ONR Station is 1000 N, 1500 W

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
.00	35.00		**OVERBURDEN** .00 35.00 Overburden difficult, boulder at 20 m casings sanded together 24 - 35 m. Ledge at 35 m, reamed BW casing to 46 m.																	
35.00	58.90		**UNIFORM (MASSIVE) ANDESITE OR BASALT** 35.00 58.90 Light green, soft, featureless andesite. Pervasive calcite alteration, rare small amygdules, weak foliation 40 - 50 deg to C.A. Vuggy along low angle and 45 deg to C.A. Features to 50 m: 35 - 38 m, 1 m ground core; 38 - 44 m, 2.7 m ground core; 10 cm ground quartz and chloritic andesite 'sand'; 44 - 47 m, 1.5 m ground core. Occasional 15 deg to c.a. Chloritic joint (calcite coated). Quartz vein - white calcitic margins some clinozoisite, 5% chloritic patches at 52.2 - 52.55 m and 52.7 - 53.2 m irregular sharp low angle contacts. Fault gouge 1 cm at 57.1 m 75 deg to c.a. Crosscuts localized steep foliation 70 deg to c.a. From 57.1 - 57.7 m. Fine leucoxene in this interval broken o/c.															
			50.00 50.30 Trace elements and gold, andesite.	16378	50.00	50.30	.30	2.5		.30	.5	11.0	8	105	9	84.0	2.5	.1	105.0	25.0
			52.20 53.20 85% quartz vein in andesite.	16392	52.20	53.20	1.00	2.5												
58.90	69.50		**UNIFORM (MASSIVE) ANDESITE OR BASALT** 58.90 69.50 Soft, light green, very blocky strongly schistose, andesite. 25 deg to C.A. With crosscutting joints at 30 deg to C.A. Up to 5% calcitic stringers along schistosity and as infilling along minor brecciated curvy low angle joints. At 60.4 m, 60.7 m, 61.8 m quartz stringers along schistosity (up to 10 cm). Schistosity looks controlled by swirling around agglomerate size blocks ie spherulitic clast (?) at 65.9 - 66.3 m. At 66.5 - 67 m very blocky, locally rusty with few quartz-calcite stringers containing black tourmaline (?). Fault zone 69 - 69.4 m, (two) graphitic then chloritic 3 cm gouge zones near i/c and at 69.3 m. Steep angles (?) broken o/c.															
			59.90 60.20 Trace elements and gold, sheared andesite.	16379	59.90	60.20	.30	2.5		.70	.5	.5	12	70	9	60.0	2.5	.1	54.0	9.0
69.50	112.95		**BRECCIATED ANDESITE** 69.50 112.95 Heterolithic breccia, light-medium grey, soft (this unit in holes #10 and #11 is more beige, slightly harder, less diverse lithologies and sulfide clasts are mainly pyrrhotite rather than pyrite as in this hole). Moderately schistose at 40 - 50 deg to c.a. Overall 1 - 3% sulfide clasts. Clast sizes to agglomerate. Occasional calcite stringer along schistosity. 79.5 - 81.5 m matrix in this section is carbonaceous so colour becomes dark grey-black with 2% fine - coarse cubic pyrite. 81.5 - 96.5 m dominantly agglomeratic size clasts. At 84.5 - 86.3 m blocky strongly schistose at 35 - 50 deg to c.a. With calcite coated joints at 5 - 10 deg to c.a. And minor oxidation 86.15 - 86.3 m. (note) 97.2 - 97.5 m grain size gradation shows tops up hole ie to north also at 107.8 m. 107.3 m nodular pyrite. Continued pervasive calcitic alteration of matrix and as stringers. 110.5 - 112.95 core quite blocky due to schistosity and several 5 - 15 deg to															

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			c.a. Calcite coated irregular fractures. 60 deg to c.a. Sharp o/c. Pervasive calcite alteration flows.																	
			70.15 70.45 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16380	70.15	70.45	.30	9.0		.30	14.0	15.0	16	147	39	517.0	2.5	.4	110.0	104.0
			70.45 71.20 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16395	70.45	71.20	.75	5.0												
			71.20 72.60 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16396	71.20	72.60	1.40	2.5												
			72.60 74.00 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16397	72.60	74.00	1.40	2.5												
			74.00 75.40 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16398	74.00	75.40	1.40	2.5												
			75.40 76.80 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16399	75.40	76.80	1.40	5.0												
			76.80 78.20 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16400	76.80	78.20	1.40	2.5												
			78.20 79.70 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16401	78.20	79.70	1.50	2.5												
			79.70 81.20 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16402	79.70	81.20	1.50	2.5												
			81.20 81.50 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16381	81.20	81.50	.30	2.5		.40	1.0	14.0	8	28	32	368.0	2.5	.1	73.0	99.0
			81.50 82.50 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16403	81.50	82.50	1.00	2.5												
			82.50 83.90 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16404	82.50	83.90	1.40	2.5												
			83.90 85.30 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16405	83.90	85.30	1.40	2.5												
			85.30 86.70 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16406	85.30	86.70	1.40	2.5												
			86.70 87.85 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16407	86.70	87.85	1.15	2.5												
			87.85 89.25 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16408	87.85	89.25	1.40	2.5												
			89.25 90.20 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16409	89.25	90.20	.95	2.5												
			90.20 90.50 Trace elements and gold, heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16382	90.20	90.50	.30	2.5		.10	1.9	20.0	11	285	36	674.0	2.5	.1	91.0	244.0
			90.50 92.05 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16410	90.50	92.05	1.55	2.5												
			92.05 93.50 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16411	92.05	93.50	1.45	2.5												
			93.50 94.90 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16412	93.50	94.90	1.40	2.5												
			94.90 96.30 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16413	94.90	96.30	1.40	2.5												
			96.30 97.75 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16414	96.30	97.75	1.45	5.0												
			97.75 99.20 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16415	97.75	99.20	1.45	2.5												
			99.20 100.70 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16416	99.20	100.70	1.50	2.5												
			100.70 101.00 Trace elements and gold, heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16383	100.70	101.00	.30	6.0		.20	7.5	21.0	15	103	36	458.0	2.5	.1	90.0	113.0
			101.00 101.70 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16417	101.00	101.70	.70	6.0												
			101.70 103.10 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16418	101.70	103.10	1.40	2.5												
			103.10 104.40 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16419	103.10	104.40	1.30	2.5												
			104.40 105.80 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16420	104.40	105.80	1.40	2.5												
			105.80 107.05 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16421	105.80	107.05	1.25	2.5												
			107.05 108.50 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16422	107.05	108.50	1.45	2.5												
			108.50 109.90 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16423	108.50	109.90	1.40	2.5												
			109.90 110.20 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16381	109.90	110.20	.30	2.5		.40	1.0	14.0	8	28	32	368.0	2.5	.1	73.0	99.0
			110.20 111.25 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16424	110.20	111.25	1.05	2.5												
			111.25 112.30 Heterolithic breccia, locally aglomeratic, 1 - 3% pyrite clasts.	16425	111.25	112.30	1.05	2.5												
			112.30 113.35 Heterolithic breccia, carbonaceous andesite flows.	16426	112.30	113.35	1.05	2.5												
112.95	135.20		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			112.95 135.20 Soft, light greenish grey, andesite amygdaloidal, occasional chloritic thin selvages, sections of flow top breccia with bleached clasts set in carbonaceous chloritic matrix with disseminated cubic pyrite and occasional calcite stringers. Core is very blocky (35 - 50 deg to c.a. Schistosity occasionally graphite coated). 120.3 - 122.7 m massive rare amygdaloidal flow similar 122.85 - 123.7 m. 123.7 - 127.4 m sections of black carbonaceous matrix with agglomerate size clasts of coarse grained massive andesite and sections of bleached lapilli size ('chicken feed') and locally blocky due to 30 - 50 deg to c.a. Schistosity and calcite stringers with 1 - 2% pyrite. 128.07 - 128.85 m up to 10% calcite amygdules (.2 - 2 cm). 128.85 - 135.2 m quite uniform rare selvage, medium grained. 135.2 m gradational o/c.																	
			113.35 114.65 Pyrite at brecciated carbonaceous flow tops - andesite.	16427	113.35	114.65	1.30	2.5												
			120.50 120.80 Trace elements and gold, amygdaloidal andesite flow.	16385	120.50	120.80	.30	2.5		.20	.5	12.0	16	88	12	100.0	2.5	.1	110.0	55.0
			126.30 127.70 Andesite flow breccia, minor pyrite.	16428	126.30	127.70	1.40	7.0												
			130.40 130.70 Trace elements and gold, m5v light greenish grey andesite.	16386	130.40	130.70	.30	2.5		.30	2.5	16.0	16	135	10	135.0	2.5	.1	145.0	117.0
135.20	147.85		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			135.20 147.85 Soft, light fuzzy greyish colour, medium grained massive andesite																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			pervasive calcite altered, weak development of chloritic-carbonaceous-calcite fracture filling which is occasionally sheared at 30 - 55 deg to C.A. And crosscut (with minor brecciation) by calcitic filled fractures at low angles to c.a. 137.49 - 137.62 m and 137.68 quartz minor calcite stringers at 40 deg to c.a. Respectively. Fault zone 146.95 - 147.03 m graphitic calcitic minor quartz at irregular 20 - 35 deg to c.a. 147.23 - 147.4 m similar with graphitic gouge at 50 deg to c.a. 147.65 - 147.85 similar with 3 cm quartz stringers at 50 deg to c.a.															
			137.45 137.70 Quartz stringers massive medium grain andesite.	16429	137.45	137.70	.25	2.5												
			140.40 140.70 Trace elements and gold.	16387	140.40	140.70	.30	6.0		.30	3.4	22.0	11	70	9	104.0	2.5	.1	86.0	323.0
			146.95 147.85 Sections of graphitic-calcitic-quartz, fault breccia in m5v andesite.	16430	146.95	147.85	.90	8.0												
147.85	182.23		**UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION**																	
			147.85 182.23 Light-medium grey, medium coarse grained, soft, leucoxine massive andesite, weak pervasive calcite alteration of matrix as well as hairline stringers, occasionally chloritic-carbonaceous hairline filled fracture along vague 50 deg to C.A. Foliation. Becomes moderately hard beyond 155 m. Calcite - minor quartz stringers at 156.75 - 156.9 m, 157.3 - 159.4 m, 158.77 - 158.94 m along vague 60 deg to c.a. Foliation. 164.1 - 168.75 m light greenish-grey pillowed, few amygdules, thin chloritic selvages at 60 - 65 deg to c.a. Fine grained, calcite-quartz minor pyrrhotite at selvages especially 167.25 - 167.5 m (low angle) 5% pyrrhotite as acicular growths at 90 deg to selvage. 168.75 - 175 m medium grained leucoxene massive andesite. 175 m decrease to medium - fine grained size, increase to 5% calcite and carbonaceous-chloritic stringers and fracture fillings at 40 - 70 deg to c.a. Beyond 178.7 m core darkens to dark grey. Broken graphitic sheared o/c at 75 deg to c.a.															
			150.50 150.80 Trace elements and gold, massive leucoxene andesite.	16388	150.50	150.80	.30	2.5		.20	.5	28.0	12	120	11	83.0	2.5	.3	83.0	1122.0
			156.75 157.40 Calcite-quartz stringers in massive leucoxine andesite.	16431	156.75	157.40	.65	2.5												
			160.50 160.80 Trace elements and gold, massive leucoxine andesite.	16389	160.50	160.80	.30	2.5		.40	.5	.5	12	133	11	113.0	2.5	.1	140.0	49.0
			167.20 167.53 5% pyrrhotite in calcite (quartz) selvage, pillowed andesite.	16432	167.20	167.53	.33	2.5												
			170.00 170.30 Trace elements and gold, leucoxine massive andesite.	16390	170.00	170.30	.30	2.5		.60	.5	.5	12	131	51	273.0	2.5	.1	193.0	12.0
			180.10 180.40 Trace elements and gold, darkened massive leucoxene andesite.	16391	180.10	180.40	.30	2.5		.40	13.0	19.0	14	108	16	133.0	2.5	.1	144.0	289.0
182.23	186.19		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			182.23 186.19 Andesite fragmental dark grrey (due to carbonaceous material) to light medium green beyond 183.5 m. Variety of andesite (altered) lithologies with few agglomerate size and mainly a tuffaceous lapilli - flattening 5:1. Matrix is quite calcitic. Pyrite locally 1% as clasts or blebs associated with calcitic stringers. 185.55 - 185.7 m few pinkish lapilli-agglomerate size clasts, soft. 65 deg to c.a. Sharp o/c.															
			182.23 183.53 Andesite fragmental, minor disseminated pyrite.	16433	182.23	183.53	1.30	9.0												
			183.53 184.95 Andesite fragmental, minor disseminated pyrite.	16434	183.53	184.95	1.42	6.0												
186.19	193.30		**ANDESITE**																	
			186.19 193.30 Dark grey-black uniform carbonaceous andesite tuff (?) Hard, matrix is calcite altered, tuffaceous fragmentals appear as light greenish andesite (?) foliation at 65 deg to C.A. Trace - .5% disseminated pyrite. 186.28 - 186.3 m calcite-graphitic fault zone at 60 deg to c.a. Beyond 189.5 m sections of featureless light greenish grey andesite, as well as a few graphitic slickensided features at 15 deg to c.a. With associated minor pyrite. Gradational o/c.															
			187.80 188.90 Trace pyrite in carbonaceous andesite tuff.	16435	187.80	188.90	1.10	2.5												
			188.90 189.20 Trace elements and gold, carboaceous andesite tuff.	16394	188.90	189.20	.30	2.5		.90	5.1	17.0	7	12	16	213.0	2.5	.1	78.0	279.0
193.30	215.05		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			193.30 215.05 Light greenish grey, fine grained, moderately hard, featureless																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			andesite. Weak foliation occasionally chloritic shear at 60 deg to C.A. Beyond 199 m light-medium greyish green softer, weak pervasive calcite alteration 2% hairline - 3 mm calcite stringers along foliation and crosscutting filling tension features (minor brecciation) also weak development of chloritic-carbonaceous fracture filling. Beyond 209 m medium-dark green 210.65 - 211 m fault zone, strongly schistose, brecciated, infilled with calcite graphite several 1 - 3 mm graphitic gouge. Last 10 cm 70% calcite quartz stringers at 70 deg to c.a. Similar fault material 211.98 - 212.05 m.															
			201.20 201.50 Trace elements and gold, few carbonaceous - chlorite filled fractures, andesite.	16393	201.20	201.50	.30	2.5		.50	4.6	11.0	10	16	39	166.0	2.5	.1	108.0	32.0
			203.44 203.94 10% calcite quartz stringers andesite.	16436	203.44	203.94	.50	2.5											
			210.50 211.00 Calcite stringers and graphitic fault zone, medium - dark green andesite.	16437	210.50	211.00	.50	2.5											
215.05	217.40		**UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION**																
			215.05 217.40 215.05 - 217.4 m leucoxine massive andesite, medium grey-green, medium grained, soft - moderately hard, blocky along 40 - 60 deg to C.A. Schistose white quartz vein 215.4 - 215.64 m calcitic minor chlorite margins and patches irregular low angle i/c 50 deg to c.a. O/c 20 deg to c.a. Faulted o/c graphitic gouge and breccia.															
			215.40 215.70 White quartz vein, massive leucoxine andesite.	16438	215.40	215.70	.30	2.5											
217.40	252.41		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																
			217.40 252.41 217.4 - 225.5 m fragmental andesite medium green grey, soft, pervasive calcite alteration, agglomerate to 218.66 m then schistose tuff afterwards at 55 - 70 deg to C.A. 217.85 - 218 m, 218.12 - 218.39 m, 218.7 - 218.75 m, 219.09 - 219.11 m white quartz stringers calcitic margins, chloritic clots sharp contacts along foliation 1% coarse sphalerite, minor chalco pyrite at 218.12 - 218.39 m. Tuffaceous (?) section has up to 3% calcite stringers along schistosity as occasional fracture filling of low angle brecciation 220.5 - 220.86 m 40% calcite stringers with infilling by brecciated clasts of carbonaceous material. 224 - 225.5 dark grey - carbonaceous matrix. Gradational o/c. 225.5 - 232.4 m soft, weak pervasive calcite altered, light beige grey featureless andesite, occasionally chloritic coated 45 - 60 deg to c.a. Shear plane with 1 - 2% calcite filled tension gashes. Gradational o/c. 232.4 - 252.41 m, hard, light grey, mottled textured areas (ghosty 'spherules'?) and fine - medium grained slight pinkish sections. All with micro-leucoxene vague 45 - 60 deg to c.a. Foliation. Low angle slickenside joints at 238.5 m, 240.9 m, 241.4 m. 246.37 m 1 cm calcite coated slickenside at 20 deg to c.a. 247.37 - 248.2 m quartz-calcite infilled breccia zone at 20 deg to c.a. Many specks of chalco pyrite at 247.4 - 247.7 m similar calcite-quartz stringers at 248.6 - 249 m. Beyond 249 m andesite becomes softer and more pervasively calcite altered.															
			217.85 218.39 75% quartz stringers - minor sphalerite.	16439	217.85	218.39	.54	2.5											
			220.50 220.86 40% calcite stringers chloritic andesite tuff.	16440	220.50	220.86	.36	2.5											
			221.00 221.30 Trace elements and gold, andesite tuff.	16441	221.00	221.30	.30	2.5		.40	12.0	16.0	13	110	18	456.0	2.5	.4	100.0	150.0
			230.80 231.10 Trace elements and gold, beige - light grey featureless andesite.	16442	230.80	231.10	.30	2.5		.50	.5	11.0	22	97	127	615.0	2.5	.1	90.0	67.0
			240.40 240.70 Trace elements and gold, vague mottled hard light grey andesite.	16443	240.40	240.70	.30	2.5		.40	.5	10.0	10	106	12	84.0	2.5	.1	154.0	15.0
			247.37 248.20 Quartz-calcite stringers, minor chalco pyrite, light-medium grey hard andesite.	16448	247.37	248.20	.83	2.5											
			250.30 250.60 Trace elements and gold, light grey softer andesite.	16444	250.30	250.60	.30	2.5		.40	.5	32.0	17	109	25	84.0	2.5	.1	43.0	370.0
252.41	254.04		**GRAPHITIC TUFF OR INTERFLOW SEDIMENT**																
			252.41 254.04 Black, soft - moderately hard, graphitic argillite. Well bedded - schistose 65 - 75 deg to C.A. At 252.5 - 252.8 m rubble with fault gouge 253.2 - 253.5 10% pyrite as bands and clots. At 253.52 - 253.88 medium green chloritic. At 253.88 - 254.04 white quartz stringer minor calcite - chloritic clots faulted 65 deg to															

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			c.a. o/c.																	
			252.80 253.50 Pyrite bands in graphitic argellite.	16449	252.80	253.50	.70	68.0												
			253.50 254.04 Graphitic argellite, quartz stringers near o/c.	16450	253.50	254.04	.54	2.5												
254.04	260.80		**AGGLOMERATE**																	
			254.04 260.80 Andesite light - medium green fragmental chaotic looking, agglomeratic clasts are slightly pinkish - hard or bleached amygdaloidal, matrix is chloritic with lapilli and tuff size spherulitic material, amygdules, bleached selvage etc. Foliation is at 50 - 60 deg to c.a. I/c to 255.5 m thin calcitic-carbonaceous gouge smeared along several shear planes. Sharp irregular o/c at 245 deg to c.a.															
			260.10 260.40 Trace elements and gold, andesite fragmental.	16445	260.10	260.40	.30	2.5		.40	.5	.5	18	111	19	106.0	2.5	.2	79.0	14.0
260.80	317.00		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			260.80 317.00 Varying light grey - light green soft - moderate hard andesite. 260.8 - 264.8 - four sections of quartz-calcite-chlorite - minor epidote and clinozoisite along moderate to low angle to C.A. Orientations (some brecciation and slickensides). 264.8 - 285.5 m light green, occasionally weak development of chloritic - carbonaceous (minor calcite) fracture filling along 50 - 60 deg to c.a. Weak foliation. Quartz-calcite-epidote (up to 10 cm) developed along occasional pillow selvage - minor pyrrhotite, chalco pyrite. 280.38 - 280.8 m graphitic-chloritic 15 deg to c.a. And 35 deg to c.a. Slickensides with calcitic tension gash filling adjacent and minor pyrrhotite 282.1 - 282.3 m fine spherules. 285.5 - 300 m mainly medium green colour sections of 10 cm brecciated flow top material and week development of chloritic-carbonaceous fracture filling at 40 - 50 deg to c.a., occasional calcite stringer along foliation or crosscutting at low angles. 296.15 - 296.3 m vague spherulites. 296.75 - 297.05 m fault zone strongly schistose at 30 - 40 deg to c.a. With several thin chloritic gouge seams with 10 cm calcite minor quartz stringer. Wear o/c. At 300 - 312.8 m light grey, moderately hard, quite uniform andesite only occasional carbonaceous-chloritic filled fracture at 30 - 60 deg to c.a. 312.8 - 317 m fragmental mainly lapilli (tuff) very little contrast in colour or textures between matrix and clasts, 40 deg to c.a. Foliation. 315.4 - 315.75 m dark grey (carbonaceous) and 315.6 - 315.75 m mainly a calcitic-graphitic breccia zone 45 deg to c.a.															
			262.00 263.00 Quartz-calcite-chlorite-epidote-clinozoisite stringers in andesite	16451	262.00	263.00	1.00	2.5												
			263.00 264.00 Quartz-calcite-chlorite-epidote-clinozoisite stringers in andesite	16452	263.00	264.00	1.00	2.5												
			264.00 264.84 Quartz-calcite-chlorite-epidote-clinozoisite stringers in andesite	16453	264.00	264.84	.84	2.5												
			270.20 270.50 Trace elements and gold, uniform light green andesite.	16446	270.20	270.50	.30	2.5		.10	.5	12.0	14	107	11	94.0	2.5	.1	105.0	28.0
			280.00 280.30 Trace elements and gold, light green andesite, few chloritic carbonaceous filled fractures.	16447	280.00	280.30	.30	2.5		.10	.5	.5	14	101	12	82.0	2.5	.1	76.0	23.0
			280.30 280.85 Graphitic-chloritic-calcite fault related.	16454	280.30	280.85	.55	5.0												
			280.85 281.50 Microfaulted andesite trace disseminated pyrrhotite.	16455	280.85	281.50	.65	2.5												
			290.90 291.20 Trace elements and gold, andesite (amygdules?).	16456	290.90	291.20	.30	2.5		.20	.5	.5	16	118	9	68.0	2.5	.1	83.0	33.0
			300.20 300.50 Trace elements and gold, uniform light grey andesite.	16457	300.20	300.50	.30	6.0		.10	.5	.5	19	132	11	66.0	2.5	.1	103.0	43.0
			310.70 311.00 Trace elements and gold, uniform light grey andesite.	16458	310.70	311.00	.30	2.5		.10	.5	.5	21	104	15	67.0	2.5	.3	104.0	25.0
317.00	331.00		**PILLOWED ANDESITE**																	
			317.00 331.00 Soft to moderately hard light green fine grained pillowed andesite, locally amygdaloidal chloritic 1 - 2 cm selvages with associated minor calcite (quartz and rare feldspar). Occasional chloritic-carbonaceous fracture filling. Chloritic fault gouge 5 mm at 20 deg to c.a. At 319.6 m.															
			320.30 320.60 Trace elements and gold, pillowed andesite.	16459	320.30	320.60	.30	2.5		.10	.5	.5	14	104	13	65.0	2.5	.1	103.0	25.0
331.00	332.00		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			331.00 332.00 331 - 331.5 m 25% calcite stringers at 40 - 60 deg to C.A. Chloritic andesite. 331.5 - 332 m 75% quartz stringers (white) calcite along contacts and low angle fractures 25% chloritic																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			wisps and clots.																	
	332.00		END OF HOLE.																	

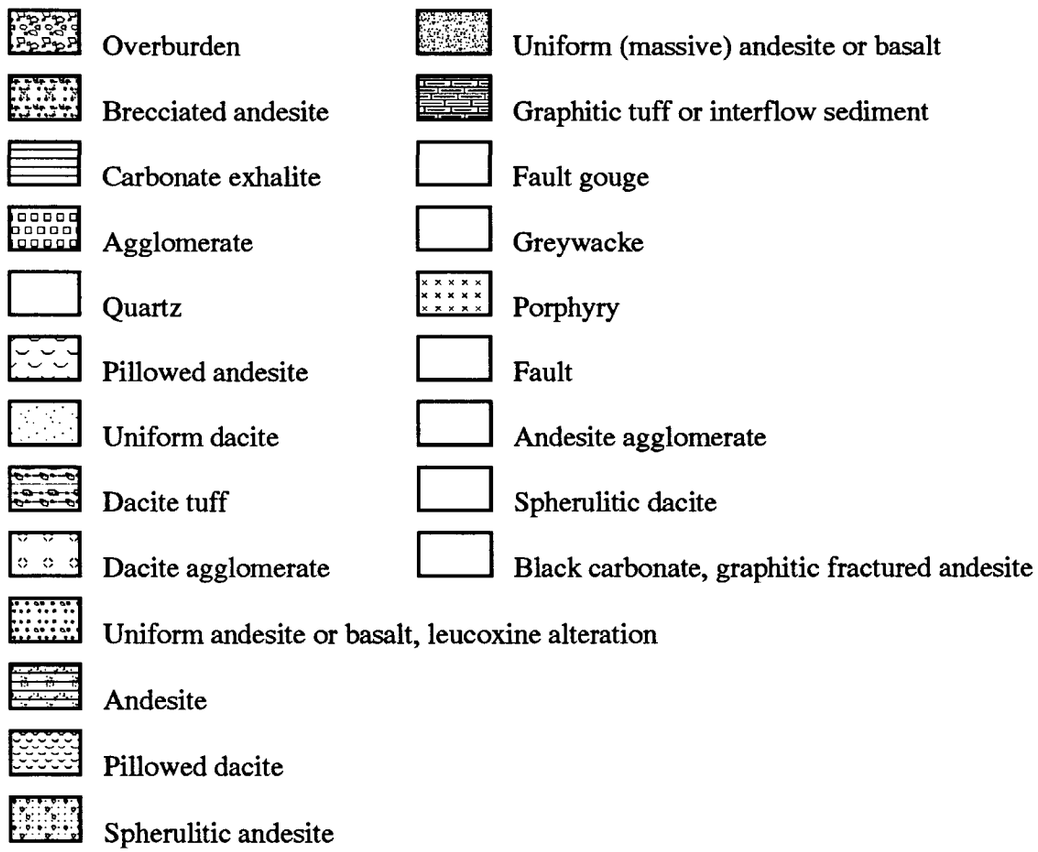
Timginn

TIMGINN PROPERTY

Drill Hole: DDH-011

Pages: 7

Rock Code Legend



Date: 7 Nov, 1994

TIMGINN

DRILL HOLE RECORD

Northing: 1562.0
Easting: -730.0
Elevation: 331.7

Collar Azi.: [illegible] 308.2
Collar Dip: -45.00

Hole Length: 377
Date Started: January 20/94

*** Depth	Dip Tests Azi.	*** Dip	*** Depth	Dip Tests Azi.	*** Dip
22		-43.0	230	352.5	-36.0
130	332.5	-40.0	330	336.5	-36.0

Drill Hole: DDH-011
Easting: 07+30 W
Northing: 15+62 N
Property: TIMGINN PROPERTY
Drilled by: Bradley Brothers
Core Size: BQ
Completed: January 24/94
Logged by: RJL
Township: Tisdale

Local reference: NE Corner of ONR Station is 1000 N, 1500 W

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
.00	19.00		**OVERBURDEN** .00 19.00 Casing - BW.																	
19.00	27.03		**PORPHYRY** 19.00 27.03 Porphyry, core is quite blocky, hard. Charcoal colour sections to 21.8 m then becomes light > medium grey and increasingly less blocky. Dominant joints (occasionally chloritic) and thin quartz stringers are at 40 - 55 deg to C.A. And steeper in last 1 m. O/c sharp - broken at 75 deg to c.a. Subrounded whitish feldspars to max 4 mm rare dark quartz eyes. 19 - 19.65 m 50% quartz, anhydrite (orangish) and calcite filled fractures at moderate - steep angles. Up to 1% sphalerite, minor galena and pyrite in calcite coated joints ie at 19.5 m, 22 m, 22.12 m, 23.17 m, 23.6 m, 23.9 m, 24.95 m, 25.3 m, 25.7 m, 26.95 m.														
			19.00 19.70 50% quartz - anhydrite calcite.	16290	19.00	19.70	.70	2.5											
			19.70 20.60 Porphyry local sphalerite, galena, pyrite coated with calcite in joints.	16291	19.70	20.60	.90	2.5											
			20.60 21.50 Porphyry local sphalerite, galena, pyrite coated with calcite in joints.	16292	20.60	21.50	.90	7.0											
			21.50 21.80 Trace elements and gold, porphyry local sphalerite, galena, pyrite coated with calcite in joints.	16277	21.50	21.80	.30	2.5		.40	5.7	35.0	19	20	654	4040.0	11.0	.8	139.0	377.0
			21.80 23.10 Porphyry local sphalerite, galena, pyrite coated with calcite in joints.	16297	21.80	23.10	1.30	6.0											
			23.10 24.40 Trace elements and gold, porphyry local sphalerite, galena, pyrite coated with calcite in joints.	16293	23.10	24.40	1.30	2.5		.20	4.9	29.0	12	23	344	3481.0	8.0	.1	203.0	449.0
			24.40 25.30 Porphyry local sphalerite, galena, pyrite coated with calcite in joints.	16294	24.40	25.30	.90	5.0											
			25.30 26.00 Porphyry local sphalerite, galena, pyrite coated with calcite in joints.	16295	25.30	26.00	.70	2.5											
			26.00 27.03 Porphyry local sphalerite, galena, pyrite coated with calcite in joints.	16296	26.00	27.03	1.03	5.0											
27.03	47.00		**UNIFORM DACITE** 27.03 47.00 Light greyish green Dacite, moderately hard, blocky. Featureless except for calcitic (minor quartz) fracture filling at 30 - 65 deg to C.A. Beyond 35 m minor chloritic-carbonaceous-calcitic coated fragments showing microfaulting. Blocky areas adjacent to low angle calcite (quartz) zones at 34.2 - 34.5 m, 40.64 - 40.85 m, 44.3 - 44.7 m. At 44.5 m few 2 mm amygdules. At o/c last 15 cm, calcite stringers, darkened (carbon? chlorite?) and blocky at 65 deg to c.a., broken o/c.														
			31.50 31.80 Trace elements and gold, dacite.	16278	31.50	31.80	.30	5.0		.30	1.4	15.0	14	109	26	105.0	13.0	1.0	170.0	36.0
			41.50 41.80 Trace elements and gold, dacite, few calcite stringers.	16279	41.50	41.80	.30	6.0		.10	.5	17.0	15	110	24	85.0	12.0	.2	229.0	60.0
47.00	54.80		**UNIFORM DACITE** 47.00 54.80 Light green dacite fragmental. Soft and moderately hard depending on clasts. Very blocky 40 - 60 deg to C.A. Foliation with variety of clasts including slightly pinkish porcellanous hard (silicified) agglomerate size clasts. Up to 1% hairline calcite stringers along														

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			foliation and filling crosscutting tension cracks. 54.5 m chloritic gouge at 30 deg to c.a., broken fault material at ?? angle.																	
			51.50 51.80 Trace elements and gold, dacite, fragmental.	16280	51.50	51.80	.30	5.0		.30	1.3	12.0	19	98	23	104.0	11.0	.1	142.0	416.0
54.80	61.30		PORPHYRY																	
			54.80 61.30 Charcoal porphyry, core is very rubbly except for quartz stringers. 54.8 - 55.4 m fault rubble 30% white quartz. Up to 40% subrounded to subhedral almost black phenocrysts (up to 3mm). Two joints sets one at 40 - 55 deg., other at 10 - 30 deg to c.a. White quartz stringers minor chloritic wisps-clots. Orangish anhydrite masses at 56 m, 58.8 m. Quartz stringers at 55.5 - 55.75 m, 55.95 - 56.2 m, 57 - 57.24 m, 57.38 - 57.66 m, 57.9 - 58 m, 58.3 - 58.6 m, 58.8 - 59.3 m, 59.5 - 59.7 m contacts mainly 30 - 65 deg to c.a. Last 1 m before o/c shows low angle curvy slickenside surface along fine grained dark green chloritic rock, fault rubble at 61 m o/c broken.															
			55.50 56.20 Quartz vein in charcoal porphyry.	16298	55.50	56.20	.70	2.5												
			56.20 57.00 Charcoal porphyry.	16299	56.20	57.00	.80	2.5												
			57.00 57.66 70% quartz stringers in charcoal porphyry.	16300	57.00	57.66	.66	2.5												
			57.66 58.30 70% quartz stringers in charcoal porphyry.	16301	57.66	58.30	.64	2.5												
			58.30 59.30 70% quartz stringers in charcoal porphyry.	16302	58.30	59.30	1.00	2.5												
61.30	70.15		UNIFORM DACITE																	
			61.30 70.15 Soft, light - medium green chlorite altered dacite fragmental, pervasively calcite altered, very blocky. Foliation goes from 50 - 65 deg to C.A. To 10 - 20 deg to C.A. White quartz - calcite (? anhydrite) intergrown stringers with chloritic clots broken steep contacts initially to broken low angle contacts later 62.8 - 63.2 m, 63.9 - 64.7 m, 66.5 - 66.7 m, 67.05 - 67.2 m, 67.65 - 68 m. Fault contact 65.7 - 67.05 m. Curvy low angle slickensides. 67.05 - 68.15 m local graphitic shears and carbon altered material, vuggy, occasionally oxidized shear 68.3 - 69.3 quite blocky calcite filled hairline tension cracks at low angles.															
			62.00 62.30 Trace elements and gold, chloritic dacite fragmental.	16281	62.00	62.30	.30	7.0		2.30	20.0	16.0	19	79	281	10257.0	14.0	.1	67.0	59.0
			62.80 63.20 Quartz calcite stringers, anhydrite?.	16303	62.80	63.20	.40	2.5												
			63.20 63.90 Chloritic dacite fragmental.	16304	63.20	63.90	.70	6.0												
			63.90 64.70 Quartz calcite stringers, anhydrite?.	16305	63.90	64.70	.80	25.0												
			66.50 67.02 50% quartz, graphitic fault zone material.	16306	66.50	67.02	.52	17.0												
			67.02 68.30 30% quartz, graphitic fault zone material.	16307	67.02	68.30	1.28	5.0												
70.15	71.90		DACITE TUFF																	
			70.15 71.90 Dacite fragmental - lapilli tuff. Light - (medium) grey - green, soft, hairline calcite stringers along moderate - strongly schistose 40 - 60 deg to C.A. Gradational %.																	
71.90	89.82		UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION																	
			71.90 89.82 Leucoxenic (white) massive flow, light greyish green medium grained, soft, blocky, with hairline calcite along 40 - 65 deg to C.A. Dominant join set and only occasionally crosscutting at low - moderate angles. Occasionally rusty, vuggy calcitic joints (both sets) at 82.25 - 82.4 m, 83.45 - 83.55 m, 86.38 m. Beyond 84.5 m becomes finer grained with leucoxenes become pinpoint. 40 deg to c.a. Sharp o/c.															
			71.90 72.20 Trace elements and gold, leucoxine massive flow.	16282	71.90	72.20	.30	8.0		.60	3.5	19.0	12	20	23	872.0	10.0	.5	107.0	166.0
			80.58 80.88 Trace elements and gold, leucoxine massive flow.	16283	80.58	80.88	.30	5.0		.70	.5	17.0	12	9	53	579.0	11.0	.1	112.0	69.0
89.82	91.48		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			89.82 91.48 Light - medium green andesite fragmental. Becomes more massive, soft hairline calcite stringers at 40 - 70 deg to C.A. Slickensided 15 deg to C.A. Sharp O/C.																	
91.48	93.01		PORPHYRY																	
			91.48 93.01 Medium grey porphyry, soft, calcitic, fine dark phenos, blocky, cut by crosscutting sets of hairline calcite coated joints. 92.12 - 92.25 m, 92.67 - 92.72 m, 92.95 - 93.01 m quartz-calcite stringers																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			at steep angles, broken steep O/C contact.																	
			92.00 92.35 Quartz-calcite stringers in medium grey porphyry.	16308	92.00	92.35	.35	2.5												
			92.35 92.65 Trace elements and gold, medium grey porphyry.	16284	92.35	92.65	.30	5.0		.30	4.5	12.0	32	4	47	246.0	10.0	.1	166.0	169.0
			92.65 93.01 Quartz-calcite stringers in medium grey porphyry.	16309	92.65	93.01	.36	6.0												
93.01	100.73		**UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION**																	
			93.01 100.73 Light (medium) greyish green fine grained leucoxine massive flow, soft. Schistose blocky at 70 deg to C.A. To 93.5 m. 1 - 3% hairline calcite along weakly schistose 50 - 65 deg to C.A. Or filling low angle crosscutting tension features rehealed fault gouge 65 deg to c.a. At 96.5 m. 98 - 99.5 m strongly schistose, becomes very blocky last .5 m at 98.4 and 98.8 m fe - staining irregular sharp o/c at approximately 50 deg to c.a.															
			97.65 98.50 Stringer schistose near o/c of leucoxine massive.	16311	97.65	98.50	.85	2.5												
100.73	112.35		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			100.73 112.35 Light - medium green soft andesite, featureless except for weak local development of chloritic-carbonaceous-calcite fracture filling (weakly schistose at 50 - 70 deg to C.A.). Hairline calcite along schistosity and coating occasionally low angle joint. Some sections slightly coarser grained with pinpoint carbonate (calcite). 107.5 - 108.1 m 3% hairline calcite filled tension gashes at 20 deg to c.a. At 108.1 m 1 cm chloritic fault gouge 65 deg to c.a. At 111.25 - 111.45, 60% quartz (calcite) stringers along schistosity (rusty at i/c). Last .6 m blocky core stringer schistose calcite stringers along schistose, rusty low angle joints 60 deg to c.a. Sharp o/c.															
			102.35 102.65 Trace elements and gold, andesite.	16285	102.35	102.65	.30	2.5		.80	.5	15.0	14	35	123	178.0	13.0	.1	88.0	45.0
			112.20 112.50 50% quartz (calcite) stringers andesite.	16323	112.20	112.50	.30	6.0												
112.35	128.00		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			112.35 128.00 Light medium green, soft, andesite tuff breccia, some clasts are harder > generally dull white to light greenish 'CHICKEN FEED' ie torn up spherules - amygdules in chloritic matrix, weak schistosity developed at 50 - 65 deg to C.A. Beyond 122 m becomes medium - dark, more amygdules (to 3 mm - white), minor pyrite clasts. Beyond 125 m local weak kinkingwith foliation varying 40 - 50 deg to c.a. More carbonaceous and calcite altered 126.15 - 126.5 2% pyrite as torn up clasts. 126.76 - 126.85 m, 127.17 - 127.53 m, 127.84 - 128 m graphitic - carbonaceous, blocky, strongly schistose sections with .5 cm calcite stringers broken o/c.															
			112.70 113.00 Trace elements and gold, andesite tuff breccia.	16286	112.70	113.00	.30	2.5		.90	1.0	14.0	15	21	30	481.0	13.0	.1	76.0	12.0
			122.90 123.20 Trace elements and gold, andesite tuff breccia.	16287	122.90	123.20	.30	2.5		.60	2.3	14.0	16	55	52	456.0	15.0	.1	89.0	10.0
			126.18 126.50 2% pyrite clasts, andesite tuff breccia.	16324	126.18	126.50	.32	2.5												
128.00	140.80		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			128.00 140.80 Soft, light greyish green andesite kind of featureless. Sections medium grained massive pin point white leucoxenes. Sections with weak development of chloritic carbonaceous-calcitic fracture filling occasionally shear at 40 - 60 deg to C.a. And also at curvy low angles to c.a. At 139.7 m and 140.8 m calcitic 10 - 20 deg to c.a. Slickensides o/c.															
			132.20 132.50 Trace elements and gold, medium grained massive andesite.	16288	132.20	132.50	.30	2.5		.40	2.2	12.0	25	82	20	192.0	9.0	.1	68.0	33.0
140.80	144.00		**UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION**																	
			140.80 144.00 Massive coarse grained leucoxene rich with some chloritic-carbonaceous-calcitic fracture filling dominantly schistose at 40 - 65 deg to C.A. And occasionally crosscutting low angle calcite coated joints 140.8 - 144 m, 151.3 - 160.6 m.															
			142.20 142.50 Trace elements and gold, leucoxine massive flow.	16289	142.20	142.50	.30	5.0		.60	3.9	15.0	22	115	92	962.0	12.0	.1	70.0	186.0
144.00	151.30		**AGGLOMERATE**																	
			144.00 151.30 Coarse agglomeratic andesite fragments (occasionally																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			amygdaloidal) with dark grey-black chloritic-carbonaceous-calcitic matrix, curvy mainly low angle - few at 40 - 60 deg to C.A.																	
151.30	183.95		**UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION**																	
			151.30 183.95 Sections fine - medium grained light grey (buff) leucoxene massive flows with few calcitic or chloritic-carbonaceous fracture filling at 40 - 70 deg to C.A. Mixed with sections of amygdaloidal and in-situ brecciated andesite. At 181.67 - 181.71 (calcite) quartz stringer - minor brown tourmaline? irregular contacts sharp at 45 - 90 deg to c.a.															
			162.20 162.50 Trace elements and gold, andesite fragmental.	16312	162.20	162.50	.30	5.0		.70	4.2	21.0	17	144	122	672.0	13.0	.1	59.0	211.0
			172.00 172.30 Trace elements and gold, amygdaloidal andesite.	16313	172.00	172.30	.30	5.0		.40	4.3	14.0	22	145	35	499.0	16.0	.1	69.0	44.0
			182.00 182.30 Trace elements and gold, leucoxine massive.	16314	182.00	182.30	.30	2.5		.30	6.2	14.0	19	116	21	151.0	11.0	.1	62.0	37.0
183.95	186.90		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			183.95 186.90 At 183.95 - 184.82 m 1 - 10% calcite (minor quartz) stringers from hairline to 3 cm along schistosity with carbonaceous material and local pyrite bands, as blebs, as tension filling. Last 10 cm strongly schistose, graphitic, 5% pyrite bands, 5% calcite stringers sheared at 65 deg to c.a. At 186.8 steep irregular o/c.															
			183.95 184.82 Calcitic stringers, minor pyrite in andesite.	16325	183.95	184.82	.87	12.0												
			186.80 188.15 Heterolithic breccia.	16326	186.80	188.15	1.35	7.0												
186.90	207.41		**BRECCIATED ANDESITE**																	
			186.90 207.41 Heterolithic breccia, tuffaceous lapilli (occasional agglomerate size clast) soft to locally moderately hard, (buff) to light grey colour, sub-angular to subrounded. Bedding at 60 - 70 deg to C.A. Variable alteration and textures of andesite, occasional porphyry, leucoxene massive as clasts. Up to 3% mainly pyrrhotite sulfide clasts up to 2 cm > flattened 5:1. At 193.8 m .5 cm rubbly rusty calcite stringer at 70 deg to c.a. Occasional thin calcite stringer along bedding or crosscutting (some minor sphalerite associated). At 204.4 m and 205.3 m 5 cm sections of broken core associated with rusty calcitic stringers at 70 deg to c.a. O/c sharp at 70 deg to c.a.															
			188.15 189.60 Heterolithic breccia.	16327	188.15	189.60	1.45	2.5												
			189.60 191.05 Heterolithic breccia.	16328	189.60	191.05	1.45	12.0												
			191.05 192.20 Heterolithic breccia.	16329	191.05	192.20	1.15	9.0												
			192.20 192.50 Trace elements and gold, heterolithic breccia.	16315	192.20	192.50	.30	9.0		.30	16.0	29.0	25	106	21	138.0	12.0	.1	86.0	141.0
			202.27 202.57 Trace elements and gold, heterolithic breccia.	16316	202.27	202.57	.30	2.5		.60	11.0	41.0	22	91	151	1159.0	12.0	.1	75.0	140.0
			202.57 204.05 Heterolithic breccia, 2% pyrrhotite clasts, minor sphalerite in calcite stringers.	16330	202.57	204.05	1.48	33.0												
207.41	211.55		**ANDESITE**																	
			207.41 211.55 Carbonaceous andesite fragmental matrix and clasts soft, tuff-agglomerate size. Graphitic shear and two 10 cm quartz stringers with graphitic wisps at 55 - 65 deg to C.A. From 209.5 - 209.9 m (.4 m). Up to 1% pyrite clots and cubes. 0 - 2% calcite stringers along bedding and crosscutting at low angles 60 deg to c.a. Sharp o/c.															
			208.35 209.50 Carbonaceous andesite fragmental.	16331	208.35	209.50	1.15	7.0												
			209.50 209.90 Two quartz (calcite) stringers graphitic zone.	16332	209.50	209.90	.40	9.0												
			209.90 210.80 Carbonaceous andesite fragmental.	16333	209.90	210.80	.90	8.0												
211.55	222.50		**ANDESITE**																	
			211.55 222.50 LIGHT (MEDIUM) GREEN, SOFT, ANDESITIC TUFF (?), PERVASIVE WEAK CALCITE ALTERATION AND SCHISTOSITY AT 60 DEG TO C.A. BEYOND 219.5 LIGHTER GREY, SLIGHTLY HARDER, MORE MASSIVE, SHARP O/C AT 60 DEG TO C.A.															
			212.85 213.15 Trace elements and gold, andesite tuff.	16317	212.85	213.15	.30	2.5		.10	8.5	10.0	7	75	25	97.0	14.0	.1	105.0	18.0
			221.90 222.20 Trace elements and gold, andesite tuff (more massive section).	16318	221.90	222.20	.30	2.5		.50	2.0	21.0	22	126	21	142.0	7.0	.1	86.0	19.0

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
222.50	225.10		PORPHYRY																	
			222.50 225.10 Medium grey, hard, porphyry abundant whitish rounded to; subhedral feldspar phenos (up to 5 mm), minor black quartz (?) phenos, 1% hairline calcite coated joints at 50 deg to C.A. Quartz vein, white, 223.82 - 225.1 m 30% irregular porphyry and medium green chlorite inclusions, from 224.25 - 224.55 m. One porphyry inclusion at low angle. Minor axinite noted at 224.6 - 224.7 m o/c broken at steep angle.															
			222.50 223.82 Medium grey porphyry.	16334	222.50	223.82	1.32	8.0												
			223.82 225.10 70% quartz (minor calcite) medium grey porphyry (pyrite, marcasite (?) smeared along fracture near i/c.	16335	223.82	225.10	1.28	7.0												
225.10	274.90		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			225.10 274.90 Light green, soft - moderately hard, andesite, amygdaloidal, very few selvages (thin - occasionally minor brecciation). Section is fine grained quite chloritic to 228 m (gradational O/C change) with quartz (calcite) stringers, some with minor axinite? 225.67 - 225.72 m, 225.95 - 226.02 m, 226.13 - 226.17 m, 226.26 - 226.31 m, 226.50 - 226.52 m (pyrite at contact), 227.05 - 227.31 m sharp contacts at 50 - 70 deg to c.a. At 248.26 - 248.45 m and 250.74 - 250.90 m brecciated flow top material cemented by calcitic matrix. Beyond 246 m bleaching at occasional selvage with coalescing of plagioclase clots (whitish spherules) 55 - 70 deg to c.a. Dominant angle for selvages. At 268.5 - 269 m 'run over' core. At 269 - 274.9 m gradual change from light green to light grey colour and 3% hairline - 3 mm calcite stringers appear as well large amygdules are evident. 6 cm zone at o/c with calcite stringers and infilled tension gashes 65 deg to c.a.															
			225.10 225.63 Chloritic amygdaloidal andesite.	16336	225.10	225.63	.53	6.0												
			225.63 226.59 Quartz-calcite stringers in chloritic amygdaloidal andesite.	16337	225.63	226.59	.96	10.0												
			226.59 227.44 Quartz-calcite stringers in chloritic amygdaloidal andesite.	16338	226.59	227.44	.85	7.0												
			232.20 232.50 Trace elements and gold, amydaloidal andesite.	16319	232.20	232.50	.30	2.5		.20	.5	19.0	11	122	26	132.0	10.0	.3	114.0	21.0
			242.50 242.80 Trace elements and gold, amydaloidal andesite.	16320	242.50	242.80	.30	2.5		.30	.5	17.0	10	119	23	109.0	12.0	.1	96.0	15.0
			252.50 252.80 Trace elements and gold, amydaloidal andesite.	16321	252.50	252.80	.30	5.0		.30	.5	18.0	6	91	26	97.0	12.0	.1	84.0	37.0
			262.10 262.40 Trace elements and gold, amydaloidal andesite.	16322	262.10	262.40	.30	11.0		.10	.5	17.0	7	128	23	106.0	12.0	.1	97.0	51.0
			272.55 272.85 Trace elements and gold, amydaloidal andesite.	16339	272.55	272.85	.30	2.5		.10	.5	26.0	6	100	50	99.0	8.0	.1	120.0	35.0
274.90	284.34		PILLOWED ANDESITE																	
			274.90 284.34 Buff - light grey soft amygdaloidal pillowed andesite, thin chloritic selvages. Cut by up to 3% calcite stringers (hairline - 5 mm) along main selvage direction 50 - 65 deg to C.A. With local contorted or microfault offset calcite tension fillings. At 272.06 - 272.09 m calcite rehealed fault? 65 deg to c.a. At 284.11 - 284.34 m stringer sheared zone chloritic (graphitic) 40% thin calcitic stringers.															
			282.20 282.50 Trace elements and gold, buff-light grey amydaloidal pillowed andesite.	16340	282.20	282.50	.30	2.5		.10	11.0	16.0	14	100	50	188.0	11.0	.1	72.0	39.0
284.34	296.97		UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION																	
			284.34 296.97 Leucoxine massive flow, coarse grained, blocky, light (medium) grey, numerous jointsets coated by calcite mainly at 35 - 60 deg to C.A. But also crosscutting at 10 - 20 deg to C.A. At 292.6 - 296.8 m white quartz vein and stringers at low and steep angles with inclusions of leucoxene massive flow, minor brown tourmaline and locally abundant light green hydromuscovite along contacts 20% quartz at 292.7 - 293.3 m, 30% quartz at 293.75 - 295 m, 75% at 295.2 - 296.25, 40% quartz - minor chalco pyrite abundant hydromuscovite 296.55 - 296.8 m broken o/c 65 deg to c.a.															
			291.60 291.90 Trace elements and gold, leucoxine massive flow.	16341	291.60	291.90	.30	6.0		.10	26.0	17.0	21	3	50	163.0	8.0	.1	53.0	121.0
			292.70 293.30 20% quartz stringers, leucoxene massive.	16342	292.70	293.30	.60	7.0												
			293.30 293.75 Leucoxine massive.	16343	293.30	293.75	.45	2.5												
			293.75 295.00 30% quartz stringers, leucoxene massive.	16344	293.75	295.00	1.25	7.0												
			295.00 296.25 75% quartz stringers, leucoxene massive.	16345	295.00	296.25	1.25	2.5												
			296.25 296.55 Leucoxine massive.	16346	296.25	296.55	.30	7.0												

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			296.55 296.80 40% quartz stringers, massive leucoxine, minor chalco pyrite.	16347	296.55	296.80	.25	2.5												
			296.80 298.00 Up to 1% csc cubic pyrite, tuffaceous andesite local amygdules, local fine leucoxene.	16348	296.80	298.00	1.20	2.5												
296.97	300.19		**ANDESITE**																	
			296.97 300.19 Soft, light greenish grey andesite. At 296.97 - 300.19 m schistose, tuffaceous occasional amygdule (?) and local kinking at 297.88 m, 298.28 m, 299.63 m, fine pinkish leucoxene?.																	
			298.00 299.32 Up to 1% csc cubic pyrite, tuffaceous andesite local amygdules, local fine leucoxene.	16349	298.00	299.32	1.32	2.5												
			299.32 300.19 Up to 1% csc cubic pyrite, tuffaceous andesite local amygdules, local fine leucoxene.	16350	299.32	300.19	.87	2.5												
300.19	302.00		**BRECCIATED ANDESITE**																	
			300.19 302.00 At 300.19 - 302 m breccia, harder, tuffaceous lapilli, 1 - 2% disseminated fine > coarse cubic pyrite. Matrix is dark (chloritic ? carbonaceous ?) gradational o/c.																	
			300.19 300.76 1 - 2% disseminated pyrite, in tuffaceous lapilli andesite.	16351	300.19	300.76	.57	7.0												
			300.76 302.00 1 - 2% disseminated pyrite, in tuffaceous lapilli andesite.	16352	300.76	302.00	1.24	10.0												
302.00	313.65		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			302.00 313.65 Moderately hard light greenish grey, quite abundant amygdules, thin chloritic selvages (as thin as .2 m) 1% disseminated pyrite 302 - 303.5 m.																	
			302.00 303.50 1% disseminated pyrite in amygdaloidal andesite.	16353	302.00	303.50	1.50	8.0												
			303.50 303.80 Trace elements and gold, amygdaloidal andesite.	16354	303.50	303.80	.30	2.5		.10	2.9	51.0	12	100	42	85.0	7.0	.1	60.0	123.0
313.65	317.42		**SPHERULITIC ANDESITE**																	
			313.65 317.42 At 313.65 3 mm chloritic-calcite fault gouge at 65 deg to C.A. Sections of vague flow top? or selvage related breccia. Occasional spherulitic clusters at selvages.																	
			314.00 314.30 Trace elements and gold, amygdaloidal andesite.	16355	314.00	314.30	.30	14.0		.10	1.4	42.0	12	114	41	61.0	7.0	.1	86.0	118.0
317.42	319.19		**BRECCIATED ANDESITE**																	
			317.42 319.19 Calcite stringer - minor brecciation 75 deg to C.A.																	
319.19	341.00		**UNIFORM (MASSIVE) ANDESITE OR BASALT**																	
			319.19 341.00 Shear zone 60% quartz-calcite stringers, chloritic, 3% fine disseminated pyrite 60 and 55 deg to C.A. Contacts respectively. Almost 'micro chicken feet' at some selvages. At 326.13 - 326.43 m blocky core strongly sheared 60 - 70 deg to C.a. 3 - 2 cm quartz-calcite stringers. At 334.45 - 334.59 m quartz-calcite stringer 50 - 70 deg to c.a. Contacts crosscuts foliation gradational o/c.																	
			319.19 319.79 First 20 cm 60% quartz-calcite stringers, amygdaloidal andesite.	16356	319.19	319.79	.60	14.0												
			324.50 324.80 Trace elements and gold, amygdaloidal pillowed andesite.	16357	324.50	324.80	.30	8.0		.10	.5	39.0	15	113	47	77.0	11.0	.1	81.0	112.0
			326.13 326.43 Quartz-calcite stringers in sheared zone.	16358	326.13	326.43	.30	2.5												
			332.40 332.70 Trace elements and gold, amygdaloidal pillowed andesite.	16359	332.40	332.70	.30	6.0		.10	.5	23.0	17	115	43	78.0	9.0	.1	91.0	102.0
341.00	377.00		**PILLOWED ANDESITE**																	
			341.00 377.00 Soft, medium green, chloritic amygdaloidal pillowed andesite. Weak schistosity 60 - 75 deg to C.A. Is stronger where tuffaceous (?) sections occur. At 342.7 - 342.9 m white quartz vein - calcite margins sharp. At 345.5 - 349.35 m kink-folds and micro faulting are evident and may be related to drag along faults. A few thin chloritic gouges are noted at 35 - 80 deg to c.a. 3 - 5% thin calcite (quartz) stringers occur along schistosity and show kinking. Also three 5 cm quartz stringers occur at 345.5 - 346 m. Short sections of 1% disseminated fine > coarse cubic pyrite. At 350.63 - 351.33 m 40% quartz stringers and blobs in fine grained chloritic andesite ? contacts sharp and irregular, axinite noted near o/c. At 351.33 - 353.3 m chloritic fine - medium grained, medium-dark green leucoxene massive flow, gradational o/c. At 363.31 - 363.42 m 5% coarse pyrite in brecciated flow top																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			material? crosscuts foliation at steep angle to c.a. Weakly calcitic. At 365 m becoming light grey green (local buff) slightly harder, selvages have more brecciation - calcite - minor pyrite association. 1 - 2% hairline calcite stringers along foliation.																	
			342.45 342.75 Trace elements and gold, chloritic amygdaloidal pillowed andesite.	16360	342.45	342.75	.30	6.0		.10	.5	27.0	12	111	42	72.0	8.0	.1	88.0	232.0
			342.75 342.95 Quartz (calcite) vein.	16363	342.75	342.95	.20	2.5												
			345.50 346.10 Quartz stringers in chloritic amygdaloidal andesite.	16361	345.50	346.10	.60	8.0												
			346.10 347.00 Minor pyrite-calcite (quartz) stringers, chloritic amygdaloidal andesite.	16362	346.10	347.00	.90	2.5												
			347.00 348.30 Minor pyrite-calcite stringers, chloritic amygdaloidal andesite.	16364	347.00	348.30	1.30	8.0												
			348.30 349.75 Minor pyrite-calcite stringers, chloritic amygdaloidal andesite.	16365	348.30	349.75	1.45	7.0												
			349.75 350.63 Minor pyrite-calcite stringers, chloritic amygdaloidal andesite.	16366	349.75	350.63	.88	2.5												
			350.63 351.33 40% quartz stringers and blobs (axinite).	16367	350.63	351.33	.70	2.5												
			354.50 354.80 Trace elements and gold, pillowed amygdaloidal andesite.	16368	354.50	354.80	.30	7.0		.10	.5	15.0	9	99	56	81.0	12.0	.1	98.0	41.0
			363.30 363.50 5% pyrite in calcitic brecciated flow top (???).	16371	363.30	363.50	.20	22.0												
			363.50 363.80 Trace elements and gold, pillowed amygdaloidal andesite.	16369	363.50	363.80	.30	2.5		.10	.5	25.0	16	99	46	69.0	9.0	.1	51.0	145.0
			372.50 372.80 Trace elements and gold, buff pillowed amygdaloidal andesite.	16370	372.50	372.80	.30	2.5		.10	.5	15.0	16	106	38	69.0	10.0	.1	59.0	150.0
			377.00 END OF HOLE.																	

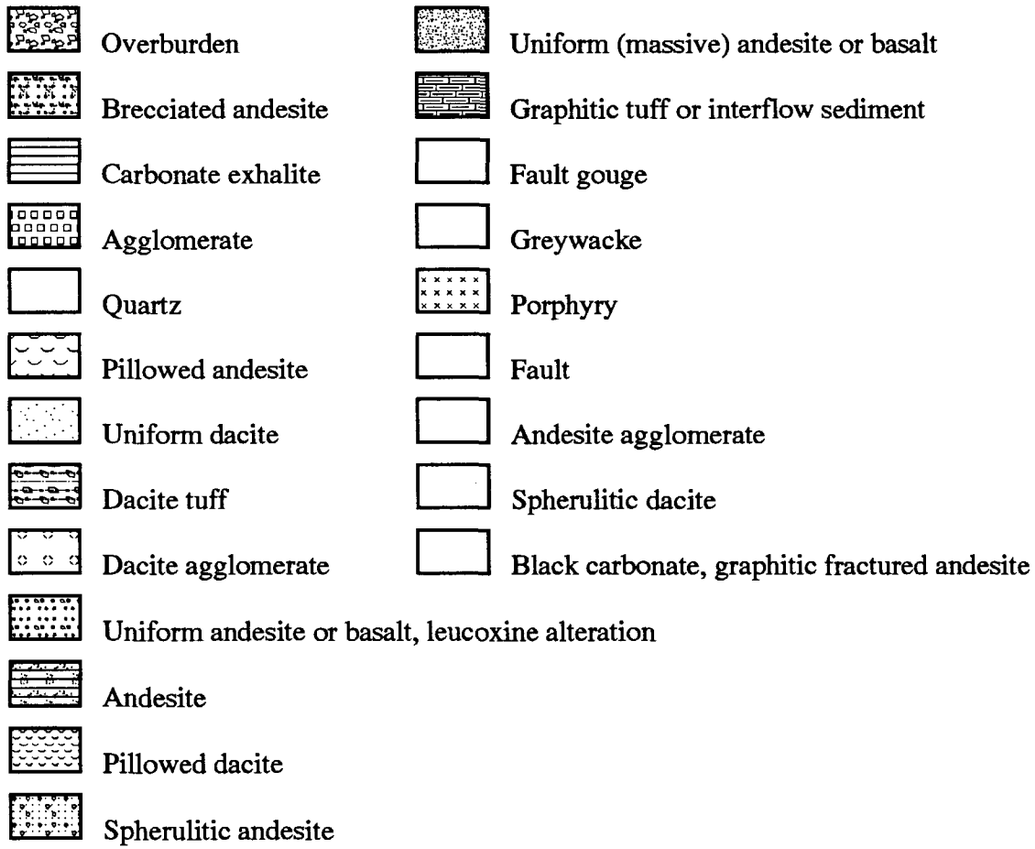
Timginn

TIMGINN PROPERTY

Drill Hole: DDH-010

Pages: 11

Rock Code Legend



Date: 7 Nov, 1994

TIMGINN

DRILL HOLE RECORD

Northing: 1675.0
Easting: -518.0
Elevation: 30[illegible] 3[illegible]

Collar Azi.: 325.00
Collar Dip: -45.00

Hole Length: 539
Date Started: January 12/94

*** Depth	Dip Tests Azi.	*** Dip	*** Depth	Dip Tests Azi.	*** Dip
32		-43.5	330	329.0	-32.0
130	327.0	-41.0	430	333.5	-28.0
230	330.5	-37.0	533	338.5	-26.0

Drill Hole: DDH-010
Easting: 05+18 W
Northing: 16+75 N
Property: TIMGINN PROPERTY
Drilled by: Bradley Brothers
Core Size: BQ
Completed: January 20/94
Logged by: RJL
Township: Tisdale

Local reference: NE Corner of ONR Station is 1000 N, 1500 W

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
.00	25.50		OVERBURDEN .00 25.50 Overburden, BW casing.																	
25.50	37.35		UNIFORM DACITE 25.50 37.35 Dacite, moderately hard, light grey-green, uniform with whitish carbonate filled amygdules up to 2 mm, 25.93 - 26.03, 29.01 - 29.14, 33.64 - 33.77 m buff-coloured feldspar. Minor quartz stringers (clinozoisite) at 25, 55 and 55 deg to C.A. Respectively. 26.17 - 26.18 m quartz (calcite) and mud (greenish) at 40 deg to c.a. Staining shows some weak pervasive ankerite alteration. Minor disseminated pyrrhotite (pyrite) associated with 1 - 3 mm wide fuzzy calcitic stringers at moderate-steep angles to c.a. Ie at 29.7 - 30.05 and 30.6 - 30.8 m and 33.03 - 33.18 m. O/c is sharp at 260 deg to c.a. And appears crosscutting a weak 70 deg to c.a. Fabric. 30.05 - 37.35 m 2% disseminated pyrite blebs filling amygdules?.															
			25.50 25.80 Trace elements and gold, uniform dacite.	16133	25.50	25.80	.30	2.5		.40	.5	21.0	18	109	15	154.0	9.0	.4	210.0	61.0
			29.70 30.80 1% disseminated pyrrhotite (pyrite) in fuzzy calcitic stringers.	16146	29.70	30.80	1.10	8.0												
			35.50 35.80 Trace elements and gold, uniform dacite, minor amygdules.	16134	35.50	35.80	.30	2.5		.50	.5	19.0	60	155	17	156.0	8.0	.1	118.0	22.0
			35.80 36.95 Minor disseminated pyrrhotite / pyrite dacite.	16195	35.80	36.95	1.15	2.5												
			36.95 37.80 Minor disseminated pyrrhotite / pyrite dacite.	16196	36.95	37.80	.85	2.5												
37.35	39.50		PORPHYRY 37.35 39.50 Outer margin of porphyry unit, soft - moderately hard, medium grey matrix. Beige-white feldspar phenos (euhedral - subhedral) decrease in size from I/C from 10 mm to 1 - 2 mm at 37.7 m, 2 - 5% dark grey 1 - 2 mm rounded quarz phenocrysts, trace - .5% 0 - 1 mm disseminated pyrite (pyrrhotite, chalco pyrite), weak foliation at 60 deg to c.a. Similar to previous unit. Beyond 37.82 m core becomes blocky with occasional chloritic joints at 25 - 40 deg to c.a. The surface of the core is pitted with oxidation localized around the .5% disseminated pyrite. 38.47 - 38.52 m, vuggy, stained quartz stringer. At 70 - 80 deg to c.a., carbonates (calcite) are dissolved. O/c area appears to be fine interfingering with the next unit - a dark grey - charcoal coloured porphyry.															
			38.47 39.00 0.5% disseminated pyrite, 5 cm quartz stringers, medium grey porphyry.	16147	38.47	39.00	.53	8.0												
39.50	56.80		PORPHYRY 39.50 56.80 Dark grey - charcoal coloured 'porphyry'. Matrix-groundmass is dark grey-black and very fine-grained, soft to moderately hard. 20 - 60% of rock consists of dull green-grey to beige plagioclase crystals which are flattened along pervasive 60 - 70% schistosity (some are euhedral) with matrix enclosing crystals (up to 20 mm length with flattening ratio of 10:1) 5 - 10% of unit consists of whitish sub-rounded 'phenocrysts' of feldspar? they're soft, non-reactive to hcl and don't stain on carbonate tests. Core is quite blocky to 44 m, then blocky 45.5 - 46.5 m, 49.4 - 53 m, with breakage mainly along 60 - 70 deg to c.a. Schistosity. Ground core from 42.85 -															

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			43.45 m. Occasional chloritic joints crosscut schistosity at 45 deg to c.a. (these are slickensided - see 44.8, 45.2, 46.3 and 46.6 m. From 46.4 - 55.5 m 1% hairline - 1 cm thick calcitic stringers along schistosity. Occasional joints at 10 - 20 deg to c.a. At 49.7 m, 51.1 m, 53 m (oxidized - minor pyrite), 54 m. Core is pitted with minor oxidation near disseminated pyrite cubes (0 - 1%) at 52.3 - 53.8 m. Local kink at 53 m. At 54.8 - 56.8 m patchy change to light grey coloured 'porphyry' in which 'clasts' of previous matrix reach 10 % in volume and up to 10 mm size o/c sharp and steep irregular.															
			44.55 45.50 Charcoal porphyry minor pyrite.	16197	44.55	45.50	.95	2.5												
			45.50 45.80 Trace elements and gold, dark grey > charcoal porphyry.	16135	45.50	45.80	.30	2.5		1.90	1.9	55.0	33	5	14	107.0	7.0	.1	115.0	808.0
			53.05 53.70 Dark grey > charcoal 'porphyry' pitted 0 - 1% disseminated pyrite, local oxidation.	16150	53.05	53.70	.65	2.5												
			54.70 55.50 Grey porphyry.	16198	54.70	55.50	.80	2.5												
			55.50 55.80 Trace elements and gold.	16136	55.50	55.80	.30	7.0		.40	5.1	40.0	29	7	19	156.0	8.0	.1	127.0	728.0
56.80	62.80		PORPHYRY																	
			56.80 62.80 Light grey 'porphyry', soft to moderately hard, similar to unit at 37.35 to 39.5 m except that this unit is 'mealy-textured' to 60.5 m, probably due to medium grey colour matrix. At 60.5 - 62.8 m more porphyritic appearance - rounded whitish feldspar 'phenos' to 10 mm, matrix is light grey colour also (less chlorite-sericite? hence rock is less schistose - still at 60 - 70 deg to c.a. Trace pinpoint dull-yellow carbonate? gradational o/c over a few cm.																		
62.80	74.52		PORPHYRY																	
			62.80 74.52 Dark grey - charcoal 'porphyry' as at 39.5 - 36.8 m, less blocky (schistose) than previously. Trace to local .5% pinpoint - mm size specks of yellowish carbonate? 1% hairline - 5 mm calcite stringers along the pervasive 60 - 70 deg to C.A. Schistosity and occasional crosscutting at 20 - 30 deg to c.a. Slickensided i/c, blocky core to 68.09 m. Fault gouge dark grey-black mud with chunks of quartz 68.09 - 68.12 m at 60 deg to c.a. Beyond 69 m dramatic decrease in whitish 'phenos' (as compared to 39.5 - 56.8 m) and 2% calcite (quartz) stringers along schistosity (to 1 cm). At 73.35 - 73.5 m blocky core. At 73.5 - 74 m 10% calcite-quartz stringers along more blocky (schistose) core. At 74 - 74.1 m calcite (minor quartz with carbonaceous - chloritic material along schistosity) gradational > lighter grey colour from 74.15 - 74.52 m broken o/c.																		
			65.50 65.80 Trace elements and gold, dark grey - charcoal - porphyry.	16137	65.50	65.80	.30	2.5		.80	.5	68.0	28	2	34	172.0	9.0	.1	117.0	439.0
			73.50 74.15 Up to 10% calcite (quartz) stringers in charcoal 'porphyry'.	16151	73.50	74.15	.65	8.0												
74.52	91.50		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			74.52 91.50 Light - medium green andesite soft to moderately hard, weak beige tint for first 1.5 m. Flattened amygdules to 1 cm are clustered in 5 - 10% groups with a vague alignment at 30 - 60 deg to C.A. Hairline calcite up to 1% coats networks of fine intersecting fractures generally where amygdules are absent. Breccia with some bleaching and localized disseminated sulphides (pyrrhotite) occurs at low - steep angles to c.a. - some of these selvages are chloritic and sheared. At 80.96 - 81.03 m and 82.75 - 82.98 m white quartz stringers with calcitic patches and fracture coatings occur at 60 - 70 deg to c.a. (sharp irregular contacts) patches and fractures coated with dark grey-black chloritic or (?) carbonaceous material. At 85.04 - 85.22 m 50% patches of quartz with calcite edges and fracture coatings 2% disseminated pyrrhotite adjacent to minor breccia at selvage - steep angles to c.a. Contacts. At 87 - 87.12, 87.3 - 87.73 white quartz veins with calcite along edges or coating fractues at irregular moderate angles to c.a. (sharp contacts). At 87.73 - 91.5 m core becomes very blocky due to weak schistosity at 60 - 70 deg to c.a. (few hairline calcite stringers along schistosity) and also due to occasional crosscutting chloritic joint and 1 cm quartz stringers. O/c broken core -																		

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			appears to be sharp at 70 deg to c.a.																	
			75.50 75.80 Trace elements and gold, light - medium green andesite.	16138	75.50	75.80	.30	6.0		.20	7.2	18.0	58	85	23	127.0	6.0	.1	80.0	18.0
			82.75 82.98 White quartz-calcite stringers in amygduloidal andesite.	16154	82.75	82.98	.23	13.0												
			85.04 85.26 Patchy quartz-calcite 2% pyrrhotite.	16155	85.04	85.26	.22	2.5												
			85.50 85.80 Trace elements and gold, andesite local amydules and breccia.	16139	85.50	85.80	.30	8.0		.70	1.1	11.0	28	283	20	251.0	10.0	.1	69.0	19.0
			87.00 87.73 White quartz (minor calcite) veins in andesite, moderate angles to c.a.	16156	87.00	87.73	.73	6.0												
91.50	103.90		PORPHYRY																	
			91.50 103.90 Light - medium grey porphyry, moderately hard, weak schistosity at moderate to steep angles (nowhere as intense as in previous 'porphyry' units). Fuzzy boundary, altered subhedral, rounded feldspar phenos up to 10 mm and not appreciably flattened. 1% 1 - 2 mm dark grey-black somewhat shattered quartz eyes. Occasionally irregular low angled joints at 91.7, 93.1, 96.4, 98 m, beyond 102.2 m core becomes blocky along both weak to moderately steep angle schistosity and low-angle joints. White quartz stringers with minor calcite, inclusions of porphyry and chloritic material, contacts at mainly steep angles 102.35 - 102.4, 103.03 - 103.18, 103.25 - 103.33 m.																
			95.50 95.80 Trace elements and gold.	16140	95.50	95.80	.30	2.5		.40	.5	40.0	11	11	19	70.0	2.5	.1	254.0	511.0
			102.35 103.33 White quartz calcite stringers near o/c porphyry.	16157	102.35	103.33	.98	2.5												
103.90	118.61		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			103.90 118.61 Light - medium green andesite (as above at _____). Soft, 103.9 - 104.7 m few fine whitish leucoxene slightly coarser grained. Minor bleaching with local pyrite, pyrrhotite and breccia at selvage - dominant core breaks at 60 deg to C.A. Ie 105.1 - 105.3 m. At 105.5 - 110.65 m gradational contacts this section is slightly coarser grained with up to 5% fine white leucoxene and maybe the core of a thicker flow? has local development of hairline fracture network and bleaching associated with selvages, 106.88 - 106.91 m quartz minor calcite stringer at 40 deg to c.a. At 110.65 - 118.61 m becomes blocky with sections of soft, buff coloured weakly amygdaloidal andesite separated by moderate schistose .3 - 1 m sections which are chloritic, brecciated and cut by up to 5% calcitic stringers (to 5 mm) along schistosity 50 - 65 deg to c.a.																
			105.50 105.80 Trace elements and gold, andesite, fine leucoxene.	16141	105.50	105.80	.30	8.0		.80	7.1	20.0	17	95	24	132.0	9.0	.1	168.0	63.0
				16158	114.00	114.90	.90	5.0												
			115.50 115.80 Trace elements and gold, buff amygdaloidal andesite.	16142	115.50	115.80	.30	2.5		.10	1.2	13.0	38	100	27	154.0	9.0	.1	93.0	29.0
118.61	126.75		BRECCIATED ANDESITE																	
			118.61 126.75 In-situ brecciated andesite, soft, light - medium dirty green with weak to intense development of chloritic-carbonaceous-calcitic fracture filling, weak schistosity at 40 - 65 deg to C.A. Up to 3% calcitic (minor quartz) stringers along schistosity, as blebs or coatings on low angle crosscutting joints. Occasional bleached fragment. Local 1 - 2% pyrite as cubes, blebs or bands especially where chloritic-carbonaceous-calcite fracture filling is prevalent hematite stain at 121.6 m. At 124.78 - 124.95 m 60% calcite as stringer along schistosity and thin crosscutting tensional infilling 125.2 - 125.5 m 5% pyrite cubes, blebs associated with fracture filling. At 125.9 - 126.75 m core is all broken up - along 40 - 60 deg to c.a. Schistosity and occasionally low angle (one is graphitic) joints broken o/c.																
			119.00 119.87 Up to 5% calcite stringers, in-situ brecciated andesite, local minor pyrite.	16160	119.00	119.87	.87	6.0												
			124.60 125.50 Local 5% pyrite calcite stringers in-situ brecciated andesite.	16159	124.60	125.50	.90	6.0												
			125.50 125.80 Trace elements and gold, calcite stringers minor pyrite, in-situ brecciated andesite.	16143	125.50	125.80	.30	8.0		.40	2.6	25.0	32	166	31	632.0	9.0	.9	44.0	68.0
126.75	133.54		UNIFORM (MASSIVE) ANDESITE OR BASALT																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			126.75 133.54 Buff light green andesite, soft, few amygdules, occasional fracture filling by chloritic-carbonaceous-calcitic material. Up to 1.5 m sections fairly uniform buff - light green separated by 10 - 30 cm sections of intense in-situ brecciated andesite in dark green - black chloritic-carbonaceous-calcitic fracture filling. Weakly schistose developed at 40 - 60 deg to c.a. Along fracture filling. Broken o/c steep angle to c.a.?.																	
133.54	178.10		UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION																	
			133.54 178.10 Medium-dark green massive leucoxene-rich andesite (leucoxene decreases down hole). Unit has chloritic coated joints at 50 - 70 deg to C.A. At .1 - .3 m spacings. Up to 2% calcite hairline - 5 mm stringers along steep joints, crosscutting at steep angles or at low angles to c.a. At 135.16 - 135.17 m rehealed fault gouge? at 73 deg to c.a. At 136 - 136.2 m and 136.8 - 136.95 localized fe staining associated with chloritic joints. At 136.3 - 136.6 m white massive quartz vein, sharp 70 deg to c.a. Contacts, minor calcite at contacts, 5% medium - dark green chlorite blebs and wisps crosscutting at 20 deg to c.a. Leucoxenes almost absent beyond 140.5 m and unit becomes almost featureless. At 149.12 - 149.30 m and 149.39 - 149.42 m white quartz stringers with minor ankerite? along margins and fractures. Contacts sharp and crosscutting at moderate to low angles and 45 deg to c.a. Respectively. Some .3 m sections show vague brecciation (flow top association?) with minor calcitic stringers and trace pyrite and pyrrhotite, some sections with weak development of chloritic-carbonaceous-calcite fracture filling. At 152 - 170 m becomes light (medium) green. At 164.58, 164.84, 164.89, 166.5, 167.58, 167.76, 170.56 and 173.17 irregular thin calcite (minor quartz) filled fractures (moderately steep angles) with minor sphalerite, pyrite, (pyrrhotite, chalco pyrite). Beyond 170 m becomes medium-dark green again with minor leucoxenes past 174.5 m. Gradational o/c over .3 m.																	
			135.50 135.80 Trace elements and gold, leucoxene rich dark green massive andesite.	16144	135.50	135.80	.30	7.0		.10	.5	22.0	23	19	26	177.0	11.0	.1	52.0	65.0
			136.30 136.60 Quartz vein (white) in leucoxenic massive andesite.	16161	136.30	136.60	.30	2.5												
			145.50 145.80 Trace elements and gold, massive medium dark green andesite.	16145	145.50	145.80	.30	2.5		.50	.5	16.0	17	21	31	155.0	9.0	.3	107.0	48.0
			149.12 149.42 Quartz stringers (minor ankerite?) medium green featureless andesite.	16162	149.12	149.42	.30	5.0												
			155.50 155.80 Trace elements and gold, light-medium green featureless andesite.	16148	155.50	155.80	.30	6.0		.50	1.4	17.0	19	17	50	216.0	12.0	.1	75.0	58.0
			164.57 164.90 Trace elements and gold, thin calcite (quartz) stringers in light-medium green featureless andesite.	16163	164.57	164.90	.33	5.0		.60	1.6	20.0	19	23	795	2327.0	11.0	.1	47.0	108.0
			165.50 165.80 Trace elements and gold, featureless andesite.	16149	165.50	165.80	.30	6.0		.10	2.2	20.0	20	10	152	314.0	10.0	.1	46.0	85.0
			174.50 175.10 0.5% disseminated fine pyrite in medium green featureless andesite	16164	174.50	175.10	.60	5.0												
			175.50 175.80 Trace elements and gold, medium-dark green featureless andesite, 0.5% fine pyrite.	16152	175.50	175.80	.30	15.0		.30	17.0	24.0	7	22	19	170.0	7.0	.1	75.0	371.0
178.10	195.90		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			178.10 195.90 Medium - dark green andesite, (fragmental???) soft, weak foliation at 60 - 70 deg to C.A. With occasional chloritic shear plane. 1 - 3% rounded 2 mm calcite filled amygdules irregularly scattered. Sections of dull weakly purplish grey fragments of what appears to be silicification - hardness and reaction to hcl shows a calcitic component. The texture of the fine greenish chloritic groundmass and variable greyish stringers (clasts?) give an almost fragmental nature to this unit. Occasional 10 - 25 deg to c.a. Calcite coated slickenside ie 185.9 m, 187 m. Larger 'clasts' show abundant amygdules, others variably bleached as well as some with fine leucoxene. At 189.4 - 190.2 m trace - 1% disseminated and fine bands of pyrite in a dominantly 'silicified' section. At 192.17 - 192.67 m 1 - 2% disseminated pyrite and bands (trace chalco pyrite) in a well sheared chloritic 50 deg to c.a. Section. At 194.95 - 195.9 m fine leucoxene in medium-dark green blocky andesite cut by																			

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			quartz-calcite stringers (about 40%) to a maximum of 15 cm at 35 - 70 deg to c.a. Trace - .5% fine pyrite along contacts. Gradational o/c.																	
			178.30 179.00 At 178.3 m graphitic sheared at 70 deg to c.a.; 178.3 - 178.35 5% pyrite disseminated around torn up calcitic stringers.	16232	178.30	179.00	.70	2.5											
			183.20 184.20 Porcellaneous clasts in medium-dark green andesite, trace pyrite.	16233	183.20	184.20	1.00	2.5											
			185.50 185.80 Trace elements and gold, medium-dark green andesite, amygdules.	16153	185.50	185.80	.30	7.0		.40	6.6	16.0	7	7	17	140.0	13.0	.1	164.0	16.0
			189.40 190.20 Trace-1% fine pyrite in medium-dark green andesite 'silicified' section.	16173	189.40	190.20	.80	2.5											
			192.17 192.67 1-2% pyrite in well sheared medium-dark green andesite.	16174	192.17	192.67	.50	7.0											
			194.55 194.85 Trace elements and gold, medium-dark green andesite, amygdaloidal, some silicification.	16165	194.55	194.85	.30	5.0		.40	1.3	17.0	16	5	20	198.0	11.0	.1	47.0	18.0
			194.95 195.90 40% quartz-calcite, medium dark green leucoxene andesite.	16175	194.95	195.90	.95	2.5											
195.90	217.85		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			195.90 217.85 Light greyish green andesite somewhat more uniform, with local weak development of chloritic-carbonaceous-calcitic fracture filling and occasional chloritic shear at 45 - 65 deg to C.A. At 197.5 - 203 m minor leucoxene, slightly coarser grained only a few fractures at moderately steep angles. At 203 - 217.85 m light (medium) green amygdaloidal and pillowed section, pillows are .1 - .5 m thick generally. Selvages are thin, some chloritic (sheared) with minor brecciation, most at 45 - 65 deg to c.a. As well weak to moderate development of chloritic-carbonaceous-calcitic fracture filling in core of pillows generally sub-parallel to selvages. Some trace - 1% fine pyrite, chalco pyrite (pyrrhotite) at selvages. At 209.65 m tops down hole (amygdule concentration) also at 213.5 m. At 217.2 darkens progressively towards 217.85 m and moderate development of chloritic-carbonaceous-calcitic fracture filling. At 217.78 - 217.81 and 217.83 - 217.85 m calcite-quartz stringers at 70 deg to c.a. Gradational o/c.																	
			205.65 205.95 Trace element and gold, light/medium andesite, amydaloidal, pillowed.	16166	205.65	205.95	.30	2.5		.10	15.0	14.0	15	104	21	167.0	12.0	.1	113.0	28.0
			212.50 212.87 Trace 1% pyrite, chalco pyrite, in calcitic stringers associated with brecciation at selvages.	16176	212.50	212.87	.37	2.5											
			215.50 215.80 Trace element and gold, light green pillowed, minor amydules and brecciation at selvage.	16167	215.50	215.80	.30	2.5		.10	3.6	17.0	16	91	22	182.0	9.0	.1	108.0	17.0
			217.70 218.00 Calcite stringers in darkened andesite near o/c.	16177	217.70	218.00	.30	2.5											
217.85	245.63		UNIFORM (MASSIVE) ANDESITE OR BASALT																	
			217.85 245.63 This unit consists of alternating flows (flows are all soft): 1. Slightly coarser grained, massive, medium greenish-grey leucoxene rich flow (leucoxenes white and pink), occasional hairline calcite stringer at steep angles and dark grey chloritic-carbonaceous-calcitic filled fractures. Contacts are sheared along fractures. 217.85 - 220.65 m, 223.17 - 224.6 m, 224.9 - 229.4 m, 235.3 - 240.5 m (this is more buff coloured, very fine leucoxene). 2. Weak to moderate development of chloritic-carbonaceous-calcitic fracture filling in medium-dark green andesite - mainly at 50 - 75 deg to c.a., occasionally sheared at these angles. Weakly calcite altered. 220.65 - 223.17 m, 224.6 - 224.9 m, 229.4 - 235.3 m, 240.5 - 242.7 m. 3. Light to medium greyish green amygdaloidal andesite, mainly calcitic flattened amygdules to 7 mm length, flow is from 242.7 - 243.85 m. 2 - 5% calcite stringers hairline - 1 cm along weakly steep shearing or coating low angle fractures. Minor sphalerite, pyrite associated with calcitic stringers (steep ones) ie 242.47 m, 242.84 m, 242.99 m, 243.38 m. 4. 70% brecciated flow top material with local 5 - 10% calcite stringers and blebs remainder being amygdaloidal andesite, dark chloritic-carbonaceous-calcitic fracture filling. Trace - 1% pyrite (pyrrhotite) associated with filling or calcite stringers sharp 80 deg to c.a. O/c.																	
			225.50 225.80 Trace elements and gold, leucoxene massive flow.	16168	225.50	225.80	.30	2.5		.10	16.0	22.0	16	115	17	106.0	12.0	.1	85.0	627.0

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			226.36 226.77 1% pyrite in chloritic-carbonaceous-calcitic stringers, leucoxine massive flow.	16179	226.36	226.77	.41	2.5												
			235.50 235.80 Trace elements and gold, fine leucoxene massive flow.	16169	235.50	235.80	.30	2.5		.10	2.0	29.0	16	104	17	113.0	12.0	.1	104.0	663.0
			242.40 243.40 Trace elements and gold, minor sphalerite, pyrite associated with calcite stringers in amygdaloidal andesite.	16178	242.40	243.40	1.00	2.5		.10	2.2	16.0	18	123	105	2348.0	13.0	.1	62.0	33.0
			243.85 244.25 Trace pyrite (pyrrhotite) associated with calcitic stringers in flow top breccia.	16180	243.85	244.25	.40	2.5												
			244.25 244.55 Trace elements and gold, flow top breccia and some amygdaloidal andesite.	16170	244.25	244.55	.30	2.5		.10	2.9	13.0	20	130	24	194.0	11.0	.1	35.0	51.0
			244.55 245.50 Trace pyrite (pyrrhotite) associated with calcitic stringers in flow top breccia.	16181	244.55	245.50	.95	2.5												
245.63	261.10		UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION																	
			245.63 261.10 Light to medium greenish grey, fine to medium grained, soft massive flow leucoxene rich (fine whitish), local weak calcitic altered. 1% hairline - 5 mm calcite stringers and occasional chloritic shear at 50 - 70 deg to C.A. At 258.4 - 261.1 m sections up to 15 cm wide with infilling chloritic-carbonaceous-calcitic material and minor brecciation of host rock generally at 50 - 70 deg to c.a. .5% pyrite associated with these sections few calcitic tension gash filling. Gradational o/c over .3 m buff coloured.																
			255.50 255.80 Trace elements and gold, leucoxene rich massive flow.	16171	255.50	255.80	.30	2.5		.10	11.0	12.0	16	136	135	554.0	11.0	.1	58.0	54.0
			258.40 259.20 0.5% pyrite associated with chloritic-carbonaceous-calcitic infilling and brecciation of leucoxene massive flow.	16182	258.40	259.20	.80	2.5												
261.10	267.83		PILLOWED ANDESITE																	
			261.10 267.83 Light (medium) green, soft, pillowed andesite, amygdules up to 1 cm generally 1 - 3 mm calcite or pyrite filled. Thin selvages at .1 - .5 m spacings generally at 40 - 70 deg to C.A., associated calcitic stringers and minor pyrite, pyrrhotite. At 265.2 - 267.83 m core darkens to medium green grey. Increase in fracture filling and occasional shear as well as .5 - 1% disseminated pyrite, pyrrhotite as amygdaloidal filling or thin bands. At 266.1 - 266.4 m very fine spherulites can be seen with elongation of 5:1 to 10:1 visible along broken core edges. Sharp 75 deg to c.a. O/c.																
			265.00 265.70 Trace-1% pyrite associated with chloritic-carbonaceous-calcite fracture filling in amygdaloidal pillowed andesite.	16183	265.00	265.70	.70	2.5												
			265.70 266.00 Trace elements and gold, light greenish amygdaloidal pillowed andesite, few fracture fillings.	16172	265.70	266.00	.30	2.5		.10	37.0	18.0	21	102	20	212.0	11.0	.1	71.0	18.0
			266.00 266.79 Trace-1% pyrite associated with chloritic-carbonaceous-calcite fracture filling in amygdaloidal pillowed andesite.	16184	266.00	266.79	.79	2.5												
			266.79 267.83 Trace-1% pyrite associated with chloritic-carbonaceous-calcite fracture filling in amygdaloidal pillowed andesite.	16185	266.79	267.83	1.04	2.5												
267.83	270.26		GRAPHITIC TUFF OR INTERFLOW SEDIMENT																	
			267.83 270.26 Graphitic argillite, soft to moderately hard. Well laminated black bands dominate at first then alternate 50/50 with light grey bands. Graphitic shear planes follow bedding from 70 > 50 > 20 > 0 deg at 269 then right back to 70 deg with minor contorted beds at 270.1 deg. 2 - 5% hairline - 5 mm calcite stringers along bedding and filling low angle crosscutting tensional fractures, minor ankerite stringers noted at 70 deg to c.a. Adjacent to 5 cm quartz stringer at 268.35. Quartz vein, white, 269.12 - 269.28 (.16 m) sharp 65 and 75 deg to c.a. Contacts with 5% chloritic-carbonaceous stylolites subparallel to contacts, trace - 1% chalco pyrite, pyrite adjacent to contacts. Sulfides 1 - 3% mainly pyrite (sphalerite or pyrrhotite or chalco pyrite) as disseminated and bands along bedding.																
			267.83 268.46 Sample description not noted in log, see rock description, 267.83 to 270.26.	16191	267.83	268.46	.63	9.0												
			268.46 269.10 Sample description not noted in log, see rock description, 267.83 to 270.26.	16192	268.46	269.10	.64	7.0												

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			269.10 269.29 Sample description not noted in log, see rock description, 267.83 to 270.26.	16193	269.10	269.29	.19	2.5												
			269.29 270.26 Sample description not noted in log, see rock description, 267.83 to 270.26.	16194	269.29	270.26	.97	5.0												
270.26	290.50		UNIFORM (MASSIVE) ANDESITE OR BASALT 270.26 290.50 Heterolithic breccia, soft to moderately hard, overall light greenish-grey. Packing of clasts varies from 30 - 75% subangular to mainly subrounded flattened 5:1 along 50 - 70 deg to C.A. Mainly (tuff) lapilli with occasional agglomerate size. Dominant lithologies; light grey-green andesite with bleaching, minor amygdules, 'silicified looking' ie slight mauve tint, fine spherulitic andesite, brecciated flow top material. Local 1 - 2% clasts and bands of pyrrhotite minor chalco pyrite and pyrite, graphitic argellite chips near i/c. Also clasts of leucoxenic massive flow increasing towards o/c. At 270.26 > 278 m 1 - 3% calcite as hairline - 5 mm stringers along foliation or hairline - 2 mm stringers crosscutting at 20 deg to c.a. (tension). At 278.16 - 287.18 m, 287.43 - 287.45 m, 286.91 - 286.97 m calcite (minor quartz) stringers mainly at 55 - 70 deg to c.a. Weak foliation. At 289.73 - 289.93 and 290.38 - 290.5 m zones with up to 40% calcite stringers and pyrite to 5% broken 80 deg to c.a. Sharp o/c.															
			270.26 271.00 Local 1-2% pyrrhotite, (pyrite, sphalerite) clasts in heterolithic breccia.	16199	270.26	271.00	.74	7.0												
			271.00 272.10 Local 1-2% pyrrhotite, (pyrite, sphalerite) clasts in heterolithic breccia.	16200	271.00	272.10	1.10	2.5												
			272.10 273.20 Local 1-2% pyrrhotite, (pyrite, sphalerite) clasts in heterolithic breccia.	16201	272.10	273.20	1.10	2.5												
			273.20 274.35 Local 1-2% pyrrhotite, (pyrite, sphalerite) clasts in heterolithic breccia.	16202	273.20	274.35	1.15	84.0												
			274.35 275.50 Local 1-2% pyrrhotite, (pyrite, sphalerite) clasts in heterolithic breccia.	16203	274.35	275.50	1.15	7.0												
			275.50 275.80 Trace elements and gold, local 1-2% pyrrhotite (pyrite, sphalerite) clasts in heterolithic breccia.	16186	275.50	275.80	.30	2.5		.10	9.3	20.0	23	97	22	122.0	9.0	.1	72.0	109.0
			275.80 276.80 Local 1-2% pyrrhotite (pyrite, sphalerite) clasts in heterolithic breccia.	16204	275.80	276.80	1.00	2.5												
			276.80 277.85 Local 1-2% pyrrhotite (pyrite, sphalerite) clasts in heterolithic breccia.	16205	276.80	277.85	1.05	8.0												
			277.85 279.30 Local 1-2% pyrrhotite (pyrite, sphalerite) clasts in heterolithic breccia.	16206	277.85	279.30	1.45	2.5												
			279.30 280.80 Local 1-2% pyrrhotite (pyrite, sphalerite) clasts in heterolithic breccia.	16207	279.30	280.80	1.50	2.5												
			280.80 282.20 Local 1-2% pyrrhotite (pyrite, sphalerite) clasts in heterolithic breccia.	16208	280.80	282.20	1.40	5.0												
			282.20 283.60 Local 1-2% pyrrhotite (pyrite, sphalerite) clasts in heterolithic breccia.	16209	282.20	283.60	1.40	2.5												
			283.60 284.50 Local 1-2% pyrrhotite (pyrite, sphalerite) clasts in heterolithic breccia.	16210	283.60	284.50	.90	2.5												
			284.50 285.50 Local 1-2% pyrrhotite (pyrite, sphalerite) clasts in heterolithic breccia.	16211	284.50	285.50	1.00	2.5												
			285.50 285.80 Trace elements and gold.	16187	285.50	285.80	.30	2.5		.10	27.0	24.0	20	107	17	327.0	8.0	.1	47.0	171.0
			285.80 286.45 Local 1-2% pyrrhotite and pyrite clasts (trace chalco pyrite) in heterolithic breccia.	16212	285.80	286.45	.65	2.5												
			286.45 287.85 Local 1-2% pyrrhotite and pyrite clasts (trace chalco pyrite) in heterolithic breccia.	16213	286.45	287.85	1.40	2.5												
			287.85 289.35 Local 1-2% pyrrhotite and pyrite clasts (trace chalco pyrite) in heterolithic breccia.	16214	287.85	289.35	1.50	2.5												
			289.35 290.50 Pyrrhotite and pyrite - calcite stringers.	16215	289.35	290.50	1.15	2.5												
290.50	344.10		PILLOWED ANDESITE 290.50 344.10 Light greyish green, soft to moderately hard pillowed andesite, few amygdules few thin occasional bleached or weakly chloritic selvages. At 301.72 m tops down hole from amygdule concentration.																	

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			Occasional chloritic shear along selvage distribution of amygdules etc. Give a 55 - 75 deg to c.a. Weak foliation. Pillow thicknesses .1 - .4 m. At 306.5 - 307.7 m finer grained amygdaloidal with finely disseminated pyrrhotite (.5 - 1%). Beyond 308 m 5 - 20 cm wide zones (adjacent to selvages) are bleached whitish-pale green colour, hard, massive to scattered-coalescing spherulitic altered feldspar. At 320.75 - 320.79 m quartz-calcite 35 deg to c.a. Along sheared selvage, 321.44 - 321.46 m similar, 321.76 - 321.83 and 321.9 - 321.97 mainly white quartz-clinozoisite - minor calcite sharp contacts at irregular steep angles. Trace - .5% disseminated pyrrhotite. At 329 - 344.1 m core is more blocky with slight increase of chlorite along selvages and occasional joints, continued 1 - 2% hairline calcite (quartz) at selvages with minor pyrrhotite, pyrite. O/c sharp at 65 deg to c.a.															
			295.50 295.80 Trace elements and gold.	16188	295.50	295.80	.30	2.5		.10	.5	19.0	16	116	23	86.0	10.0	.1	85.0	14.0
			305.50 305.80 Trace elements and gold, amygdaloidal pillowed andesite.	16189	305.50	305.80	.30	2.5		.10	.5	22.0	10	129	22	101.0	14.0	.1	96.0	29.0
			306.50 307.70 .5-1% finely disseminated pyrrhotite in fine grained amydaloidal andesite.	16216	306.50	307.70	1.20	2.5												
			315.50 315.80 Trace elements and gold, amygdaloidal pillowed andesite.	16190	315.50	315.80	.30	23.0		.10	.5	22.0	9	100	21	90.0	11.0	.1	88.0	41.0
			320.75 321.97 Few quartz stringers minor calcite, clinozoisite, trace pyrrhotite in pillowed andesite.	16217	320.75	321.97	1.22	2.5												
			325.50 325.80 Trace elements and gold, fine/medium grained weakly calcitic andesite.	16218	325.50	325.80	.30	2.5		.10	.5	15.0	7	109	20	70.0	13.0	.1	103.0	62.0
			335.50 335.80 Trace elements and gold, minor pyrrhotite - pyrite at selvages, pillowed andesite.	16219	335.50	335.80	.30	2.5		.10	2.0	13.0	12	99	19	121.0	13.0	.1	86.0	16.0
			339.47 340.25 Minor pyrrhotite - pyrite at selvages, pillowed andesite.	16220	339.47	340.25	.78	79.0												
344.10	361.16		UNIFORM ANDESITE OR BASALT, LEUCOXINE ALTERATION																	
			344.10 361.16 Medium green, medium grained, leucoxene rich massive flow, soft. Cut by chloritic low angle joints with associated brecciation and few calcitic stringers. White quartz stringers (edges have some calcite) accompanied by brecciation at 35 - 65 deg to c.a. At 350.24 - 350.44 m, 352.66 - 352.77 m, 352.93 - 353.04 m. Vague rims (some minor epidote) at 50 - 65 deg to c.a. Ie 353.33 m. Faulted o/c at 50 deg to c.a.															
			350.24 350.84 Quartz stringers, minor brecciation, massive leucoxene flow.	16223	350.24	350.84	.60	2.5												
			352.60 353.20 Quartz stringers, minor calcite in massive leucoxene flow.	16222	352.60	353.20	.60	9.0												
			355.50 355.80 Trace elements and gold, massive leucoxene flow.	16221	355.50	355.80	.30	2.5		.10	.5	16.0	15	98	20	74.0	11.0	.3	35.0	53.0
361.16	366.32		BRECCIATED ANDESITE																	
			361.16 366.32 Brecciated flow material (?) identifiable amygdaloidal andesite fragments as well as variable altered pillowed andesite (some weak bleaching, soft, well foliated occasionally chloritic shear at 65 deg to C.A. Cut by calcite-quartz - minor ankerite stringers generally 2 - 10 cm wide with local disseminated and stringers of pyrrhotite, pyrite and minor chalco pyrite up to 5 - 10% (stringers and sulfides along foliation). Brown tourmaline as needles and massive in calcite-quartz stringers at 361.4 m, 365.05 m. At 361.26 - 361.77 m 50% quartz-calcite stringers 362.12 - 362.59 m 40% calcite-quartz stringers, beyond 362.59 m 5 - 10% calcite-quartz stringers. Gradational o/c.															
			361.26 361.77 50% quartz-calcite stringers.	16224	361.26	361.77	.51	7.0												
			361.77 362.12 Local 5-10% sulphides, breccia flow unit with 5-10% calcite quartz, minor ankerite stringers.	16225	361.77	362.12	.35	12.0												
			362.12 362.59 40% calcite-quartz, local 5-10% sulphides, breccia flow unit with 5-10% calcite quartz, minor ankerite stringers.	16226	362.12	362.59	.47	17.0												
			362.59 363.55 Local 5-10% sulphides, breccia flow unit with 5-10% calcite quartz, minor ankerite stringers.	16227	362.59	363.55	.96	8.0												
			363.55 364.55 Local 5-10% sulphides, breccia flow unit with 5-10% calcite quartz, minor ankerite stringers.	16228	363.55	364.55	1.00	25.0												
			364.55 365.50 Local 5-10% sulphides, breccia flow unit with 5-10% calcite quartz, minor ankerite stringers.	16229	364.55	365.50	.95	7.0												
			365.50 365.80 Trace elements and gold, local 5-10% sulphides, breccia flow unit	16230	365.50	365.80	.30	2.5		.10	4.9	39.0	16	103	20	150.0	14.0	.1	55.0	71.0

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			with 5-10% calcite quartz, minor ankerite stringers.																	
			365.80 366.32 Local 5-10% sulphides, breccia flow unit with 5-10% calcite quartz, minor ankerite stringers.	16231	365.80	366.32	.52	12.0												
366.32	395.00		PILLOWED ANDESITE																	
			366.32 395.00 Waxy, soft, light greenish buff pillowed andesite. Selvages to 1 - 2 cm, some are chloritic with local bleaching, some with local brecciation and associated calcitic-quartz stringers patches and minor fine disseminated pyrite. Amygdules are flattened along weak schistosity at 65 - 75 deg to c.a. Overall 2 - 4% calcitic (minor quartz) stringers to 3 cm along schistosity and with rare low angle fractures ie 386.4 - 386.6 m. At 390.4 - 395 m core is moderately schistose at 75 deg to c.a., more thin pillows through this section. At 394.34 - 394.92 m 20% calcite - minor quartz stringers (up to 5 cm) along schistosity fine disseminated pyrite along stringer margins with local 7 mm pyrite cubes at 394.78 - 394.9 m. Gradational o/c.															
			371.50 372.50 Minor pyrite with calcitic stringers, buff pillowed amygdaloidal andesite.	16236	371.50	372.50	1.00	10.0												
			375.73 376.03 Trace elements and gold, buff pillowed amygdaloidal andesite.	16234	375.73	376.03	.30	6.0		.10	3.6	24.0	15	77	18	77.0	10.0	.1	74.0	83.0
			379.75 380.50 Minor pyrite with calcitic stringers, buff pillowed amygdaloidal andesite.	16237	379.75	380.50	.75	7.0												
			385.50 385.80 Trace elements and gold, buff pillowed amygdaloidal andesite.	16235	385.50	385.80	.30	2.5		.10	.5	16.0	14	101	17	74.0	9.0	.1	47.0	103.0
			394.34 394.92 20% calcite (quartz) stringers, buff pillowed amygdaloidal andesite.	16238	394.34	394.92	.58	17.0												
395.00	438.30		PILLOWED ANDESITE																	
			395.00 438.30 Soft > moderately hard light greyish green pillowed andesite - more and larger (to 5 mm) amygdules than previous unit but only occasional calcite with associated minor sulfides at selvages. Tops down hole at 402.3 m, but at 407.73 m tops at selvage oppose each other. Beyond 410 m gradational change to light (medium) greenish grey slightly softer with fewer (and smaller) amygdules and calcitic (quartz) stringers associated with some selvages (local brecciation and minor pyrite) at 70 - 80 deg to c.a. At 415.42 - 415.46 m calcite (30% quartz) stringer at 60 - 80 deg to c.a. Fine pyrite at contacts, 5 mm pyrite cubes to 415.49 m, 2 - 1 cm calcite stringers at 415.71 and 415.73 m. 2 mm greenish fault gouge (?) at 75 deg to c.a. At 415.76 m. Fault zone (?) at 419.39 1 cm rehealed calcitic breccia at 80 deg to c.a. Crosscuts 70 - 80 deg foliation then from 419.5 - 419.55 m, 419.6 - 419.62 m and 419.7 - 419.88 quartz minor calcite, very minor ankerite with sheared irregular moderately steep angle contacts, at 419.9 1 cm rehealed 85 deg to c.a. Fault gouge crosscuts. 425.8 - 432.17 m core becomes blockier, moderately schistose, slightly coarser grained and locally leucoxene rich ie 426.7 - 426.9 m 2% hairline - .5 cm calcite stringerss along schistosity. White quartz vein 426.9 - 427.25 m (.35 m). Irregular steep contacts - minor calcite - chloritic inclusions similar quartz vein at 431.54 - 432.17 (.63 m). At 432.17 - 438.3 m somewhat darker green colour, more chloritic, foliation drops to 50 deg to c.a. In places. 434.9 - 435.92 m 50% quartz vein (minor calcite) along schistosity chloritic inclusions and filling brecciated moderate angles fractures fine chalco pyrite along contacts or 20 cm quartz vein at 434.9 m. Gradational o/c.															
			395.50 395.80 Trace elements and gold, light greyish green amygdaloidal pillowed andesite.	16239	395.50	395.80	.30	2.5		.10	.5	13.0	13	87	15	81.0	13.0	.1	50.0	115.0
			405.50 405.80 Trace elements and gold, light grey green amygdaloidal pillowed andesite.	16240	405.50	405.80	.30	28.0		.10	.5	13.0	13	100	17	77.0	10.0	.1	79.0	13.0
			415.42 415.74 Calcite-quartz stringers, minor pyrite, amygdaloidal pillowed andesite.	16241	415.42	415.74	.32	7.0												
			415.74 416.04 Trace elements and gold, amygdaloidal pillowed andesite.	16242	415.74	416.04	.30	6.0		.10	.5	26.0	19	96	20	82.0	10.0	.1	57.0	100.0
			419.39 419.97 Fault zone material, quartz (gouge; calcite minor ankerite).	16244	419.39	419.97	.58	13.0												
			425.50 425.80 Trace elements and gold, amygdaloidal pillowed andesite.	16243	425.50	425.80	.30	2.5		.10	.5	19.0	16	97	19	83.0	9.0	.1	42.0	84.0

From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			425.80 426.90 Calcite stringers minor pyrite, in amygdaloidal pillowed andesite.	16250	425.80	426.90	1.10	6.0												
			426.90 427.25 Quartz - minor calcite, chlorite.	16251	426.90	427.25	.35	2.5												
			431.54 432.17 Quartz - minor calcite, chlorite.	16252	431.54	432.17	.63	9.0												
			434.60 434.90 Trace elements and gold, dark green chloritic sparse amygdaloidal andesite.	16245	434.60	434.90	.30	8.0		.10	.5	.5	10	44	18	66.0	12.0	.2	88.0	25.0
			434.90 435.92 50% quartz vein - minor calcite, chlorite.	16253	434.90	435.92	1.02	2.5												
438.30	495.00		PILLOWED ANDESITE																	
			438.30 495.00 Soft, waxy, pillowed amygdaloidal andesite light greyish green becomes buff - light green coloured by 449 m. Thin chloritic selvages, sparse amygdules. Foliation gradually steepens up to 80 deg to C.A. Few quartz or quartz-calcite stringers trace - fine pyrite along schistosity up to 20% over intervals 438.78 - 439.65 m, 440.21 - 440.78 m, 441.77 - 442.22 m. At 444.21 - 444.25 m quartz-calcite stringer at irregular moderate angle to c.a. As well past 449 m local bleaching and tuffaceous (?) hyaloclastite (?) 1 - 3 cm at occasional rims, slightly harder, core is blocky past 460 m with hairline calcite stringer network especially along schistosity - rehealing along low to moderate angle locally brecciated fractures 464 - 468.5 m, 478.5 - 483 m. At 481 - 481.81 m 1% fine cubic pyrite along calcitic stringers, 481.81 - 481.98 (.17 m) white quartz (minor calcite) vein at irregular steep angles to c.a., fine pyrite along sharp contacts. Beyond sparse chloritic-carbonaceous calcitic infilled fractures along 65 - 85 deg to c.a. Foliation. At 491.33 - 491.43 m and 492 - 492.11 m sections 'silicified' (hard) of graphic-argillitic-calcitic, 3% pyrite and 1 - 2% fine disseminated pyrrhotite. At 492.72 m at 25 deg to c.a. Calcitic coated slickenside. Gradational o/c.																	
			438.78 439.65 Up to 20% quartz calcite stringers, trace pyrite, amygdaloidal pillowed andesite.	16254	438.78	439.65	.87	2.5												
			440.21 440.78 Up to 20% quartz calcite stringers, trace pyrite, amygdaloidal pillowed andesite.	16255	440.21	440.78	.57	2.5												
			441.77 442.32 Up to 20% quartz calcite stringers, trace pyrite, amygdaloidal pillowed andesite.	16256	441.77	442.32	.55	9.0												
			445.50 445.80 Trace elements and gold, amygdaloidal pillowed andesite.	16249	445.50	445.80	.30	7.0		.10	2.0	15.0	12	90	19	65.0	10.0	.1	70.0	123.0
			455.50 455.80 Trace elements and gold, buff, light green pillowed amygdaloidal andesite.	16246	455.50	455.80	.30	2.5		.10	.5	.5	12	107	18	72.0	11.0	.1	68.0	19.0
			465.50 465.80 Trace elements and gold, buff pillowed amygdaloidal andesite.	16247	465.50	465.80	.30	13.0		.10	.5	.5	11	96	17	59.0	10.0	.1	79.0	25.0
			475.50 475.80 Trace elements and gold, buff pillowed amygdaloidal andesite.	16248	475.50	475.80	.30	2.5		.10	.5	21.0	14	100	22	85.0	12.0	.1	70.0	46.0
			480.56 481.52 Trace - .5% disseminated pyrite, buff amygdaloidal andesite.	16257	480.56	481.52	.96	7.0												
			485.50 485.80 Trace elements and gold, buff pillowed amygdaloidal andesite.	16260	485.50	485.80	.30	7.0		.10	.5	23.0	11	108	18	79.0	11.0	.1	77.0	137.0
			488.00 488.81 1% disseminated cubic pyrite associated with calcite stringers buff pillowed amygdaloidal andesite.	16262	488.00	488.81	.81	2.5												
			488.81 488.98 Quartz calcite vein.	16263	488.81	488.98	.17	6.0												
			491.33 492.11 2 10 cm 'graphitic-argillite sections' with pyrite, pyrrhotite in buff pillowed amygdaloidal andesite.	16261	491.33	492.11	.78	8.0												
495.00	539.00		PILLOWED ANDESITE																	
			495.00 539.00 Soft, light green amygdaloidal pillowed andesite, beyond 500 m becomes moderately hard, thin chloritic selvages with occasional adjacent bleaching and amygdule concentration, occasionally sheared, selvage at 60 - 70 deg to C.A. At 503.6 - 504.49 m quartz vein, massive white, sharp 60 - 75 deg to c.a. Contacts, fibrous clots of pale pinkish clinozoisite (?) good splash of chalco pyrite and pyrrhotite near i/c. At 509 m most selvages have minor pyrrhotite (pyrite) associated with fuzzy calcitic stringers and beyond 530 m more amygdules.																	
			495.70 496.00 Trace elements and gold, light green amygdaloidal pillowed andesite.	16264	495.70	496.00	.30	6.0		.10	.5	.5	10	117	18	91.0	11.0	.1	48.0	13.0
			503.60 504.49 White quartz vein clots clinozoisite. Splash chalco pyrite at i/c.	16265	503.60	504.49	.89	2.5												
			505.50 505.80 Trace elements and gold, light green amygdaloidal pillowed andesite, trace pyrrhotite at occasional selvages.	16266	505.50	505.80	.30	8.0		.10	.5	.5	5	128	20	99.0	9.0	.2	115.0	21.0
			515.55 515.85 Trace elements and gold, light green amygdaloidal pillowed	16267	515.55	515.85	.30	6.0		.10	.5	12.0	5	119	19	111.0	13.0	.1	101.0	35.0

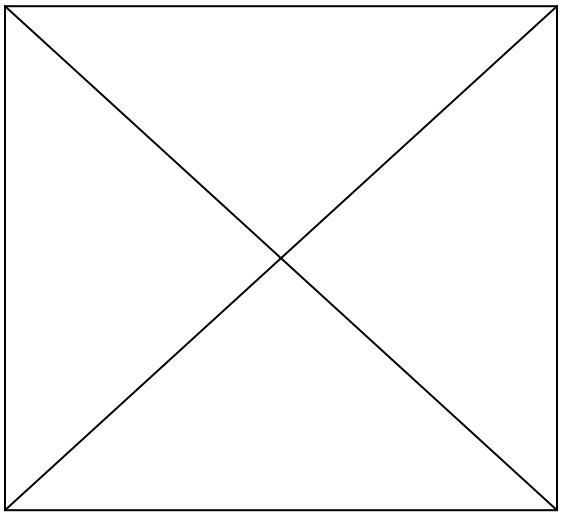
From (m)	To (m)	Rock Type	Geology	Smple	From (m)	To (m)	Lngt (m)	AU PPB	AU	AG PPM	AS PPM	B PPM	LI PPM	CU PPM	PB PPM	ZN PPM	BI PPM	SB PPM	SR PPM	BA PPM
			andesite, trace pyrrhotite at occasional selvages.																	
			521.33 522.05 Minor pyrrhotite (pyrite) associated with occasional selvages in light green amygdaloidal pillowed andesite.	16269	521.33	522.05	.72	13.0												
			522.65 523.15 Minor pyrrhotite (pyrite) associated with occasional selvages in light green amygdaloidal pillowed andesite.	16270	522.65	523.15	.50	25.0												
			525.50 525.80 Trace elements and gold, light green amygdaloidal pillowed andesite, trace pyrrhotite at occasional selvages.	16268	525.50	525.80	.30	7.0		.10	.5	.5	5	123	18	132.0	13.0	.1	62.0	28.0
			535.50 535.80 Trace elements and gold, light green amygdaloidal pillowed andesite.	16271	535.50	535.80	.30	6.0		.10	.5	11.0	7	97	17	100.0	13.0	.1	71.0	18.0
			537.00 538.08 Minor pyrrhotite (pyrite) with calcite stringers at selvages, light green amygdaloidal pillowed andesite.	16272	537.00	538.08	1.08	9.0												
			539.00 END OF HOLE.																	

Problem Page
The original page in this document had a problem when scanned and as a result was unable to convert to Portable Document Format (PDF).

We apologize for the inconvenience.

Problème de conversion de page
Un problème est survenu au moment de balayer la page originale dans ce document. La page n'a donc pu être convertie en format PDF.

Nous regrettons tout inconvénient occasionné par ce problème.



TIF_JPG_Conversion_Failure_Bad_Header_MNDM111x1