

DIAMOND DRILL CORE LOG-SUMMARY SHEET

Project: Date: Logged by: Drilling Co:	Godfrey Townsł November 23-30 Robert Calhoun Colbert Drilling	iip), 1999		DDH: EFG99-3	
Claim Numbe	er: P834574			COLLAR LOC	ATION: L500E/060N
SURVEYS:	Acid Test			TIMMINS COORDINATES	GRID COORDINATES
Setup	<u>Depth</u> 0.0 282.0	<u>Azimuth</u> 00°	<u>Dip</u> -45° -34°	Northing: Easting Elevation: 0.0 meters TD:303.0 meters	060N 500E

DRILLING DATES Started: November 23, 1999 Finished: November 30, 1999



Co

DIAMOND DRILL SUMMARY LOG

Project: Godfrey Township Date: November 23, 1999 Logged By: R. F. Calhoun

DDH: EFG99-3

GEOLOGIC SUMMARY

FROM	ТО	DESCRIPTION]	NTERVA	L	SIC	GNIFICAN	IT ASSAY	AVERAC)ES
(m)	(m)		From (m)	То (m)	Width (m)	Cu ppm	Zn ppm	Pb ppm	Ag g/t	Au ppb
0.0	4.4	Overburden								
4.4	38.7	Rhyolitic Fragmental - breccia								
38.7	106.2	FETI Basalt								
106.2	112.6	Mafic Volcanic - Basalt								
112.6	121.7	Felsic Fragmental - Rhyolitic								
121.7	125.4	Mafic Volcanic - Basalt								
125.4	146.5	Felsic Fragmental - Rhyolitic								
146.5	153.5	Mafic Volcanic - Basalt								
153.5	173.8	Rhyolite								
173.8	177.5	Rhyolite Tuff]		
177.5	185.4	Rhyolite								
185.4	193.8	Rhyolite					1			
193.8	213.4	Rhyolite Fragmental								
213.4	240.0	Rhyolite - Porphyritic - Fragmental	1							
240.0	241.7	Fault Zone - Rhyolite]			
241.7	249.7	Rhyolite	ļ							
249.7	267.7	Rhyolitic welded Tuff								
267.7	269.1	Tuff								
269.1	270.5	Rhyolite Tuff								
270.5	291.8	Rhyolite							1	
291.8	295.2	Tuff								
295.2	303.0	Rhyolitic Tuff								
	303.0	End of Hole								
COMMEN	TS									

Property: Godfrey Township	Hole Number: <u>EFG99-3</u>	Claim Number: <u>P834574</u>
Location: L500E/060N	Final Depth: <u>303.0 meters</u>	Logged By: <u>Robert Calhoun</u>
Azimuth: Grid North 00°	Dates Drilled: <u>November 23-30, 1999</u>	Drilled By: <u>Colbert Drilling</u>
Dip: <u>-45°</u>	Dates Logged: <u>Nov. 24-Dec.1, 1999</u>	Signature

			Assays								
From	То	Description	Sample #	From	То	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
0.0	4.4 38.7	Overburden Rhvolitic Fragmental - breccia									
		-fine grained, medium to locally dark grey siliceous matrix hosting sub rounded to angular fragments - heterolithic. The fragments are generally felsic-rhyolitic from glassy light whitish beige hard to dark grey similar to matrix material. Minor pyrite and very minor sphalerite towards end of section. 4.4-14.8 - this section is 60% fragments with the dark grey <2cm fragments dominant but the larger fragments are beige white up to 7cm in size some displaying reaction rims. There are very minor chloritic fragments possibly mafic. Fragment size decreases down hole. 14.8-33.0 - this section is again dominated by dark grey fragments predominantly <1cm in size but there are occasional larger fragments to 4cm but dark grey. The light beige fragments are essentially gone. Sericite becomes a component in this section. Minor sphalerite with quartz at 32.8. 33.0-38.7 - the fragmental matter is less obvious in this section although textural variations may be indicating that there are large blocks in this zone to 20cm in size? Sphalerite occurs in this section as small red grains as at 37m and there is minor pyrite. The lower contact is 85° to core axis.									

Hole # EFG99-3

							Assa	ys			
From	То	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	ЦА
			#			(meter)	ppm	ppm	ppm	g/ton	ppb
38.7	106.2	Feti Basalt -fine to medium grained medium to dark green iron tholeiithic basalt. The unit contains abundant white flecks, leucoxene? The overall unit is massive with only weak foliations developed locally. The upper part of the unit is calcite +/- quartz veined <5% as small veinlets. The unit contains pyrite <1% to minor as disseminated cubes and fine disseminations. There is hematite on some fractures and associated with some small quartz veining. 38.7-49.9 - calcite +/- quartz veining as fine veinlets to 10cm veining of quartz. The calcite locally appears to be preferential to a weak foliation at 60° to core axis which is parallel to some veinlets. Other veinlets are sub parallel to core axis. Calcite can also occur as grains to 2mm, wispy edged. 49.9-70.3 - massive with minor quartz +/- carbonate veining, white flecks less obvious, hematite occurs on numerous fractures and can form veinlets to 2mm wide. Pyrite is minor. 70.3-84.2 - this section marks the introduction of epidote as veins mainly near upper and lower contacts and epidotization of the matrix probably saurritization of the feldspars. Hematite continues on fractures but is less frequent. Minor carbonate veinlets slight increase	sample #		10	(meter)	ppm	ppm	ppm	Ay g/ton	ppb
		in last 5 meters. 84.2-87.5 - fine grained basalt "layer", highly chloritic , has increased pyrite 1-2% as disseminations, small discontinuous veinlets and as hourglass like laminae. Quartz veining <1% as veins to 3cm at 48° to core axis. The lower contact is 51° to core axis, upper is "gradational." 87.5-99.9 - massive dark green to locally blackish down section, weakly veined with carbonate, pyrite content increasing down section with minor veinlets to stretched nodules as at 89.95m. The section has abundant white flecks. 99.9-106.2 - this section is a mixed zone of the above unit and a number of finer basalt layers as									

Hole # EFG99-3

							Assa	ys			
From	То	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
			#			(meter)	ppm	ppm	ppm	g/ton	ppb
		above. The section has increased veining of carbonate and quartz as small veins sub parallel to 70° to core axis. There is increased pyrite as "large" clusters to 4mm, discontinuous veinlets of clusters, fine laminae and fine disseminations. Pyrite is up to 5-8% over 20cm sections 2-3% overall. Minor siliceous sections occur within finer basalt.									
106.2	112.6	Mafic Volcanic - Basalt fine grained, medium to dark green, chloritic. Section contains 5% carbonate and/or quartz veinlets<1cm in width. Chlorite becomes increasingly darker down section to nearly black locally at lower contact. Pyrite is the dominant sulfide 1-5% with small sections8-10%. Pyrite occurs as laminae, small discontinuous veinlets and cubic disseminations. Minor pyrrhotite, minor chalcopyrite. 106.7-107.7 - silicified section with pyrite 1-3%, upper contact at 85° to core axis while lower contact is 80°. Lower contact of main unit is 60° to core axis.									
112.6	121.7	Felsic Fragmental - Rhyolitic fine grained, dark grey to blackish matrix hosting light to dark grey fragments which make up 60% of the unit. Dark green to blackish chlorite occurs interstitial to the fragments of varying width from laminae to veins 1cm wide. Within the chlorite, especially, sulfides of pyrite, sphalerite and chalcopyrite occur. Although the sulfide appear preferential to the chlorite there are some sulfides in the fragments and other matrix. The pyrite is generally fine disseminations and cubes to 0.7cm. The chalcopyrite is as clusters, small grains and rarely as laminae. Sphalerite is as grains and clusters of grains and rarely as veinlets/laminae. The percentages of the sulfides is hard to determine because of their localized patchy nature but total sulfides is 1-2%. The sphalerite ranges from red brown to honey coloured.	23542 23543 23544 23545 23546 23547 23548	112.6 114.1 115.6 116.9 118.0 119.0 120.5	114.1 115.6 116.9 118.0 119.0 120.5 121.7	1.5 1.3 1.1 1.0 1.5 1.2	57 43 363 375 662 250 531	510 717 2530 1830 793 395 2390	14 5 12 1 3 1 1	0.2 0.6 0.3 0.5 0.4 0.6	10 7 14 7 2 5

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Hole # <u>EFG99-3</u>

							Assa	ys			
From	То	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
			#			(meter)	ppm	ppm	ppm	g/ton	ppb
121.7	125.4	Mafic Volcanic - Basalt fine grained, medium to dark grey becoming grey green weakly siliceous towards lower contact. Unit is massive with 2% quartz and/or carbonate veining. The unit is locally amygduloidal with calcite filled small amygdules. Sulfides are pyrite as cubes to 0.5cm <3%. Upper contact at quartz vein 20° to core axis. Lower is broken, crushed.									
125.4	146.5	Felsic Fragmental - Rhyolitic fine grained, medium to dark grey to blackish, to locally beige to medium grey beige. The colour variations are due to amount of chlorite interstitial to fragments, degree of fragments and sericite. Sulfides are pyrite, sphalerite and chalcopyrite with increasing pyrrhotite locally. 125.4-128.1 - dark grey to blackish with black chlorite interstitial to fragments. The fragments are light greyish white to dark grey. There is 1% sphalerite increasing as 3-4% over <1meter. The sphalerite is as grains, small veinlets and clusters. Chalcopyrite <1% as grains and clusters. Pyrite as cubes, elongated	23549 23550	125.4 126.7	126.7 128.1	1.4 1.4	666 619	2700 2900	2 8	1.4 1.3	nil 21
		clusters and disseminations.			100 1						10
		128.1-130.1 - beige green sericitic, less chlorite(minor),sulfides are less than above but sphalerite is quite abundant locally as grains and local veinlets but is 1% overall. Pyrite is disseminated.	40501 40502	128.1 129.1	129.1 130.1	1.0 1.0	395 110	591 1740	9 4	1.0 0.3	10 nil
		130.1-134.1 - dark grey to blackish, chlorite as	40503	130.1	131.1	1.0	522	1290	29	1.3	5
		above. Sulfides are pyrite, sphalerite and chalcopyrite	40504	131.1	132.6	1.5	94	1300	52	1.2	10
		with lesser amounts of pyrrhotite. Sphalerite is locally abundant as at 130.1-131.1, 3-4%, overall 1-2%	40505	132.6	134.1	1.5	144	1040	28	0.9	5
		134.1-139.5 - this section is more massive	40506	134.1	135.6	1.5	146	1720	19	0.5	34
		rhyolite with fragmental nature not obvious but there	40507	135.6	137.1	1.5	16	244	10	0.2	nil
		are still patches of blackish chlorite which contain	40508	137.1	138.6	1.5	8	143	59	0.6	5
		sphalerite, chalcopyrite and pyrite. Suitide total is <1%	40509	138.6	139.5	0.9	19	308	22	0.2	5
		139 5-146 5 - rhvolitic section although fragments	40510	139.5	141 0	15	154	382	a2	10	14
		are not readily obvious, they do occur and are probably	40511	141 0	142.5	1.5	214	194	130	1.0	7
		of similar composition to the main unit. Chlorite, dark	40512	142.5	144.0	1.5	62	239	150	0.4	7
		green to blackish, occurs mainly in thin laminae, local									

							Assa	ys			
From	То	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
			#			(meter)	ppm	ppm	ppm	g/ton	ppb
		veinlets to 1cm and random patches. Sulfides are pyrite, sphalerite and lesser chalcopyrite. Total sulfides are <5% with pyrite dominant. Lower contact of this unit is 85° to core axis and fairly sharp.	40513 40514	144.0 145.5	145.5 146.5	1.5 1.0	109 116	120 242	95 110	1.0 1.6	5 10
146.5	153.5	Mafic Volcanic-Basalt -fine grained, dark green, chloritic, soft with abundant whitish flecks possibly leucoxene. These flecks are greatly increased in the central portion of the unit. There is abundant quartz and/or carbonate veining up to 10% as generally small veinlets but are up to 2cm wide. There are sulfides of pyrite in the unit as minor cubes and disseminations. The upper contact is 85° while the lower is 56° fairly sharp.									
153.5	173.8	Rhyolite -fine grained, beige green, siliceous. This unit is less obviously fragmented but fragments are up to 1cm in size but appear to be the same material as the main unit. The degree of sericitization and silicification makes it harder to see the fragments. The unit is highly sericitized with silicification over point making the unit hard not easily scratched to non-scratchable with a knife. The centre portion of the unit 159.0-165.0m has a network of healed fractures giving it a net design. The fractures are healed with "silica" possible carbonate. Sulfides in the section are minor but locally sphalerite occurs as grains, red brown to honey coloured. The sphalerite occurs with limonite generally making the distinction difficult. The sphalerite occurs in areas "veins" where the groundmass has become grey in colour. Although sphalerite is found in minor amounts throughout the unit there is a higher concentration to 5-8% locally between 166.5m and 170.0m. Internal possible tuff layering can be seen towards end of section at 173.2, 173.8m.	40515 40516	166.4 167.9	167.9 168.9	1.5 1.0	53	32 19	68	0.1 0.1	nil ni)

Hole # EFG99-3

							Assa	ys			
From	To	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
			#			(meter)	ppm	ppm	ppm	g/ton	ppb
173.8	177.5	Rhyolite Tuff? -fine grained, light grey to dark green black, unit is separated from above due to the intensity of chlorite at upper contact and from 176-177.5m. With the chlorite there are sulfides of pyrite, pyrrhotite (some of the pyrrhotite is non-magnetic). Minor chalcopyrite and minor to nil sphalerite. There is also a glassy white quartz vein sub parallel to core axis at 176.8-177.1m. Sulfides are 10-15%.	40517 40518	175.0 176.0	176.0 177.5	1.0 1.5	183 234	176 74	4 8	0.2 0.2	3 7
177.5	185.4	Rhyolite -fine grained, light to medium grey green sericitic. This section displays an autobrecciated texture in the upper section giving way to a more tuffaceous nature towards lower contact. The lower section may be spherulitic to vesicular. There is minor limonite stained fractures. Minor pyrrhotite and chalcopyrite 179.0-180.0m.	40519 40520	177.5 179.0	179.0 180.0	1.5 1.0	143 104	60 430	2 12	0.1 0.3	5 3
185.4	193.8	Rhyolite -fine grained, medium green beige to grey green, sericitized. This section has multiple textures from smooth glassy to feldspar porphyritic (small <1mm feldspars to a layered tuffaceous banding towards end of section). These layers are at 53° to core axis. The section is quite altered with sericite has patchy dark green chlorite locally and possible feldspathization around some fractures. Minor limonite staining on some fractures.									
193.8	213.4	Rhyolite Fragmental -fine grained, light to medium green grey matrix, sericitic hosting fragments to 1cm, dominantly <0.5cm of similar material and paler feldspar rich possibly partially digested angular shaped fragments. There are quartz eyes to 3mm dark grey glassy throughout the section. Towards the lower part of the unit the fragments become more heterolithic with larger pale grey, glassy fragments to 2cm increasing in frequency. The lower section 209.7-213.4 appears to be flow brecciated with rounded fragments are an internal auto	40521 40522	209.3 212.4	210.7 213.4	1.4 1.0	10 32	10 130	1 2	0.1 0.1	2 2

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Hole # <u>EFG99-3</u>

							Assa	ys			
From	To	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
			#			(meter)	ppm	ppm	ppm	g/ton	ppb
		breccia fragments can exceed 2cm sub angular to rounded. There are patches of dark green chlorite in this section as well. Some of the fragments are vuggy and quite sericitized 201.7-5cm vein of quartz and limonite at 35° to core axis. 209.7-213.4-10-20cm sections of limonite nodules to grains which may also have sphalerite red brown.									
213.4	240.0	Rhyolite-Porphyritic-Fragmental -fine grained, medium green grey siliceous, fragmental to massive, sericitic and quartz and feldspar porphyritic. The quartz eyes in this section are ubiquitously <2mm in size locally are marked by dark cores and lighter whitish glassy veins. They occur in all rock textures. The feldspar phenocrysts appear more porphyroblastic towards the lower section. The larger whitish beige nodules in the upper and lower section are more diffuse with partial digestion. There are discontinuous veinlets of chlorite dark green to medium green randomly distributed in the section but do appear to separate larger fragments?. The fragments are similar to the ground mass and lesser amounts are beige grey with reaction rims. The fragments are <1cm to 0.5cm, rarely greater than 1.5cm. There are minor limonitic grains randomly distributed. 225.8-229.0-fine grained massive with minor chlorite sections feldspar (predominant) and quartz porphyritic. 235.1-237.7-50% quartz veining white glassy 20° to core axis with minor chalcopyrite/sphalerite one nodule at 237.5m. 238.4-240.0-unit becomes foliated at 82° to core axis with dark chlorite marking the foliations and	40523 40524	235.1 236.6	236.6 237.7	1.5	11 114	51 122	4	0.1	nil 2
		sericite weakly aligned. Sulfides are nil to trace.]						
240.0	241.7	Fault Zone-Rhyolite -fine grained, green grey rhyolite fractured broken and crushed. The section rarely has a solid piece greater	40525	240.0	241.7	1.7	16	25	1	0.1	nil

Hole # <u>EFG99-3</u>

							Assa	ys			
From	To	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
			#			(meter)	ppm	ppm	ppm	g/ton	_ppb
		than 20cm. There are highly sericitized sections to layers with feldspar phenocrysts with dark grey reaction rims of probable silica. The section contains discontinuous sections of blood red jasper, orange brown limonite; honey coloured and red brown possible sphalerite (probably limonite). Except for the veinlets the remainder occur as grains and clusters of grains.									
241.7	249.7	Rhyolite -fine grained, light to medium grey green, sericitic siliceous. This section contains fragments generally of the same material but there are minor fragments of darker material and lighter more cherty rhyolite. Sericite in this section occurs as fracture fillings and irregular patches or splotches with dark green to blackish spots probably quartz eyes. There are <10cm sections of dark green to black colouration probably chlorite rich.									
249.7	267.7	Rhyolitic Welded Tuff -fine grained to locally glassy, colour ranged from beige cream to dark greenish to grey towards lower contact. There are numerous layers within the unit with some especially towards upper contact which are feldspar porphyritic with small feldspar grains <0.1cm in semi- distinct layers. Down section the layering becomes more defined with some thinly "bedded" sections. The contacts between the layers can be sharp as at 257.6 (60° to core axis), 258.4 (65° to core axis). As you approach lower contact layered nature decreases or layers become wider. Sulfide content is nil to trace with only pyrite being noted. Fracturing displays a dark colour possibly chlorite on fracture faces. The unit is hard generally but some layers are easily scratched with a knife. There is a biotite zone with limonite in fractures from 266.2-266.5m. 258.25-258.4-biotite rich layer-"dirty tuff". Lower contact 85° to core axis.									

Hole # EFG99-3

							Assays Cu Zn Pb Ag A ppm ppm g/ton p				
From	То	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
			#			(meter)	ppm	ppm	ppm	g/ton	ppb
267.7	269.1	Tuff -fine grained, dark brownish to dark grey at lower contact. This tuff is probably biotite rich especially 267.7-268.4-there are also fine sulfides of pyrite, possible chalcopyrite but grains are hard to see even with a 10x lens. Towards end of section pyrite cubes to 4mm and fine discontinuous laminae occur. 268.8- 269.1-10% pyrite. Lower contact 30° to core axis.									
269.1	270.5	Rhyolite Tuff -fine grained, light to medium grey with cream colour feldspar rich sections. Sericite is minor component. Feldspar occurs as patches and veins.									
270.5	291.8	Rhyolite -fine grained, yellow green to greenish yellow, sericitized, silicified hard. There are patches with varying shapes of feldspar. Feldspar also occurs in veins. Although the unit is uniformly hard it does appear to have a tuffaceous layering which is more evident when the core is dry. The unit is possibly a fine ass welded tuff. The start of the unit to 272.3m is glassy with healed fractures patchy colouration with minor grey sections and extremely hard. The feldspar patches occasionally display a grey rimming (alteration reaction). Sulfides are nil. There are occasional small spots dark green which may be chlorite but silicification overprints the chlorite. The feldspar patches occasionally display a grey rimming (alteration reaction). Sulfides are nil. There are occasional small spots dark green which may be chlorite but silicification overprints the chlorite. The feldspar patches occasionally display a grey rimming (alteration reaction). Sulfides are nil. There are occasional small spots dark green which may be chlorite but silicification overprints the chlorite. 279.0-282.0-yellow green to greenish yellow beige, there is increased healed fractures, silica/feldspar, increased feldspar veins to patches and increased quartz veining as small veins <2cm wide, white glassy. Chlorite veins appear at 285.2 to end of section but are mainly in two sections 285.2-285.25; 286.7-287.0m, similar laminae occur randomly. 282.0-291.8-grey to grey beige massive with									

			Assays								
From	То	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
			#			(meter)	ppm	ppm	ppm	g/ton	ppb
		minor fractures healed with silica feldspar.									
291.8	295.2	Tuff -fine grained, purplish red to brownish, feldspar porphyritic as <1mm to rarely 2mm white feldspar phenocrysts. The unit is massive with minor quartz/carbonate veins, minor fractures. There is an internal contact at 294.4-60° to core axis. Above the contact 294.0-294.4 porphyritic nature nearly disappears while below the contact the unit is highly porphyritic and is grey in colour. The lower contact zone 295.0-295.2 also is non porphyritic with chlorite at contact 85° to core axis. The unit is highly ankerite in matrix, fractures and small grains.									
295.2	303.0	Rhyolitic Tuff -fine to locally medium grained, beige grey to grey beige, sericitic weak to moderate. Unit has quartz vein 3cm at 299.5. Quartz and carbonate (ankerite) veins or patches occur mainly in the upper part of the unit. The unit in part is a quartz feldspar crystal tuff as at 296.0- 297.1m. The remainder of the unit ranges from glassy to layered porphyritic.									
	303.0	End Of Hole									
		Acid Test									
				ł					ĺ		
		282.0m -34°		1							
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DIAMOND DRILL CORE LOG-SUMMARY SHEET

Project: Date: Logged by: Drilling Co:	Godfrey Township December 1-15, 1999 Robert Calhoun Colbert Drilling	DDH: EFG99-4
Claim Number:	P834574	COLLAR LOCATION: L500E/020N

SURVEYS: Acid Test

TIMMINS COORDINATES

GRID COORDINATES

	<u>Depth</u>	<u>Azimuth</u>	Dip
Setup:	<u>0.0</u>	<u>00°</u>	<u>-50°</u>
	270.0		-44°

Northing:	
Easting	
Elevation: 0.0 meters	
TD: 270.0 meters	

020N 500E

DRILLING DATES Started: December 1, 1999 Finished: December 15, 1999





DIAMOND DRILL SUMMARY LOG

DDH: EFG99-4

Project: Godfrey Township Date: December 1, 1999 Logged By: R. F. Calhoun

GEOLOGIC SUMMARY

FROM	ТО	DESCRIPTION	I	NTERVA	L	SIGNIFICANT ASSAY AVERAGES						
(m)	(m)		From (m)	To (m)	Width (m)	Cu ppm	Zn ppm	Pb ppm	Ag g/t	Au ppb		
0.0	2.5	Overburden		······································	<u> </u>							
2.5	7.8	Rhyolite										
7.8	69.9	Rhyolite Tuff Fragmental	[1 1		/	1	(
69.9	71.1	Mafic Dyke										
71.1	89.5	Rhyolite Tuff Fragmental										
89.5	93.4	Rhyolite						1				
93.4	107.4	Mafic Volcanic - FETI Basalt										
107.4	115.1	Rhyolite Lapilli Tuff to Rhyolite										
115.1	125.9	Mafic Volcanic - FETI Basalt			1			1	ł			
125.9	142.7	Mafic Volcanic - Epidotized Basalt										
142.7	147.5	Mafic Volcanic - Basalt										
147.5	161.6	Mafic Volcanic - Basalt										
161.6	173.0	Rhyolitic Fragmental										
173.0	207.0	Mafic Volcanic - Basalt										
207.0	213.0	Felsic Volcanic - Rhyolitic Lapilli Tuff										
213.0	222.9	Mafic Volcanic - Basalt										
222.9	244.2	Felsic Volcanic										
244.2	266.9	Felsic Volcanic - Rhyolite			1							
266.9	270.0	Fragmental Rhyolite										
	270.0	End of Hole										
<u>`OMMEN</u>	TS	<u>, I,,,,, , , , , , , , , , , , , , , , </u>	l		<u> </u>		L	<u>l</u>	l I			

Proper	ty: <u>God</u>	Ifrey Township Hole Number:	<u>EFG99-4</u>			(Claim Nu	mber: <u>8(</u>	34574					
Locatio	n: <u>L50</u>	0E/020N Final Depth: 2	270.0 meter	<u>s</u>		Logged By: <u>Robert Calhoun</u>								
Azimut	h: <u>Grid</u>	North 00° Dates Drilled:	Dates Drilled: <u>December 1-15, 1999</u>					Drilled By: Colbert Drilling						
Dip: <u>-5</u>	<u>0°</u>	Dates Logged	Dates Logged: December 1-16, 1999						Ú					
· · · · · · · · · · · · · · · · · · ·								/						
		·					Assay	<u> </u>						
From	m To Description			From	То	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb			
0	2.5	Overburden												
2.5	7.8	Rhyolite Tuff -fine grained, light grey green to medium grey, weakly siliceous. Section contains 15% quartz/calcite veining as white glassy milky veins to 10cm generally <5cm. The un has minor fragments concentrated in two 20cm sections. There is minor sulfides with one clot of chalcopyrite noted in quartz vein at 5.7m.	40526 40527 t	5.1 6.1	6.1 7.1	1.0 1.0					5 2			
7.8	69.9	Rhyolite Tuff Fragmental -fine to medium grained matrix, medium grey to generally dark grey to blackish. The colour is this unit is dependent on the type of fragments and the degree of chlorite. The fragments in this section are dark grey to black angular to sub-angular (dominant) and translucent beige cream usually larger sub-angular and up to 4-5cm in size. The darker fragments are usually <1cm but are up to 3cm especially from 18-47m. Some fragments are feldspar porphyritic. Chlorite is a constituent of the matrix and can form "veins" as at 28.2-28.3m. Quartz and/or carbonate veins are minor as <1cm veinlets. Some carbonate occur in fractures. Some of the fragments are sericitic. 47.0-69.0-translucent fragments are smaller <2cm and blackish grey fragments are still dominant. Patchy sericitization of ground mass makes the unit appear to have beige grey fragments to 10cm. Chlorite occurs in matrix and as patches to veins as at 68.7m with minor sulfides.	s											

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				·			Assa	ys			
From	То	Description	Sample #	From	То	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
69.9	71.1	Mafic Dyke -fine grained, medium to dark grey with brownish overcast, medium soft, scratches easily with knife. There is a bluish colouration at 70.8m in veins, carbonate mineral?. The contacts are 85° to core axis.									
71.1	89.5	Rhyolite Tuff Fragmental -fine to medium grained, unit begins with a light to medium grey green sericitized section to 72.7m which gives way to increasingly darker grey to grey black. The unit has fragments as above but less abundant more sub-rounded than sub angular. The beige cream sericitic fragments are minor small <1cm to 2cm. The unit is quite massive with only minor carbonate healed fractures.									
89.5	93.4	Rhyolite -fine grained, medium grey to light grey green where patchy alteration sericite occurs. The unit has a glassy appearance is hard and locally diffuse translucent. Minor chlorite on fractures. The upper contact 89.5- 89.3m is a contact breccia with calcite carbonate minor silica cement. The contact is 41° to core axis, sharp. Lower contact is 30° to core axis somewhat contorted with a 42° section. The contact is sharp.									
93.4	107.4	Mafic Volcanic-FETI Basalt -fine grained to dominantly medium grained, dark green to locally dark green grey (towards black). Unit is generally massive but displays a weak foliation locally at 53° to core axis. The unit has fractures healed with quartz and calcite, some of the calcite laminae to veinlets mark the foliations. The unit is variably magnetic from non to moderate. There are whitish leucoxenitic grains <1mm, and locally the calcite occurs as grains. Lower contact is 38° to core axis. A brecciated quartz vein 7cm long occurs above contact at 107.25, the breccia pieces are supported in chlorite. Pyrite is locally 1-3% disseminations and magnetite grains were noted.					1				

							Assa	ys			
From	То	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
107.4	115.1	Rhyolite Lapilli Tuff to Rhyolite -fine grained to glassy, colour is highly variable with patchy cream beige alteration in grey matrix to 109.1m, medium to dark grey (blackish) to 115.0m and lighter grey with whitish grey patches to end of unit. The unit is weakly to moderately sericitic, with probable increase in chlorite in darker small quartz veinlets and lapilli are in upper section cream beige colour <1cm. Upper contact is marked by 5cm of chlorite.	#			(meter)	ppm	ppm	ppm	g/ton	ррь
115.1	125.9	Mafic Volcanic-FETI Basalt -unit is as above except that it is generally non magnetic to very weak, lighter green due to presence of epidote in ground mass, weak and local "vein" epidotization at 37° to core axis, examples are at 118.0, 119.8m. There is minor hematite on some fractures as at 119.7m. Tourmaline was noted in small quartz vein at 118.8m. 123.1-123.6-quartz veined section 30% quartz veins at 20°/45° to core axis. Quartz veins contain minor chalcopyrite as clusters.	40528	123.1	123.6	0.5	303	87	1	0.2	10
125.9	142.7	Mafic Volcanic-Epidotized Basalt -this unit is a continuation of the above unit but is separated due to the degree of epidotization. The core is an apple green to medium green. Epidote is in matrix pervasive and locally concentrated in "veins". These veined sections may or may not be associated with quartz veins and are generally at 52° to core axis. Some epidote is along fractures at various angles. Quartz veins are a minor component as veins to 2cm but generally are at low angles and <0.4cm wide. There are at least two generations of veins as evidenced by a vein 3mm wide sub parallel to core axis running from 131.0-131.85m cut by another vein at 131.6m. The longer vein has 50% chlorite. There is weak hematite also below 132.0m.									
142.7	147.5	Mafic Volcanic-Basalt -fine grained, medium green no white flecks, minor epidote, calcite laminae, fracture filling and quartz veinlets infrequent to 10cm. Sulfides of pyrite occur at									

Hole # <u>EFG99-4</u>

							Assa	ys			
From	То	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
		143.7m as clusters of grains 3-5% over 10cm. Lower "contact" is marked by epidote along "contact" at 43° to core axis. Epidote occurs mainly in quartz veined area especially towards end of section.	#			(meter)	ppm	ppm	<u>ppm</u>	g/ton	ррр
147.5	161.6	Mafic Volcanic-Basalt -fine to generally medium grained, dark green with abundant leucoxenitic white flecks. Unit is mainly massive with fractures filled with carbonate minor quartz at 30-40° to core axis being the main feature. There are sulfides of pyrite through the unit as indicated below. Lower contact disrupted at various angles. Chloritic sections <10cm occur through the unit. 147.5-148.3-pyrite <1% 148.3-151.2-pyrite in this section occurs as cubic clusters to 0.4cm, fine laminations (dominant), discontinuous veinlets and fine dissemination. Total pyrite overall is 5-8% by 10-20cm sections can exceed 10%. No other sulfide noted. 153.9-155.8-pyrite as cubic clusters fine laminae and fine disseminations. Total pyrite is <1% but small sections are 1-3%. Remainder of unit has only minor pyrite.	40529 40530	148.3 149.7	149.7 151.2	1.4 1.5	157 143	1620 1500	362 704	0.6 0.5	15 9
161.6	173.0	Rhyolitic Fragmental -fine grained, medium to dark grey green matrix hosting fragments of same composition and larger sub rounded fragments of pale beige cream colour, siliceous translucent. These fragments can exceed 3cm in size. The unit is quite dark in colour overall with chlorite in matrix material locally as small "veins". Sericite also occurs in cream beige coloured section. Sulfides are nil.									
173.0	207.0	Mafic Volcanic-Basalt -fine grained in contact zone to 174.5, medium grained, medium green to dark green. Unit is massive with fine internal features. Veining is small carbonate veins generally associated with fractures and rare quartz veins to 2cm. The white flecks observed above are still present but are much smaller and less abundant at 187.4-187.6m. There are fractured brecciated quartz veins healed with chlorite forming an internal contact									

							Assa	ys			
From	То	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
			#			(meter)	ppm	ppm	ppm	g/ton	ppb
		between two mafic flows? at 38° to core axis. There is 3-5% pyrite in this zone as well. Pyrite is the main sulfide noted in this unit(s) generally minor to 1% as cubes, minor veinlet/laminae and fine disseminations. Some areas have higher pyrite content as noted below. The unit below 192.0m is darker green than above to almost an ultramafic appearance highly chloritized locally. 194.9-195.9-cherty rhyolite section. Pyrite in mafics at contact 3-5% 10cm above and below contact. The contacts are crushed broken. 206.5-207.0-10-15% pyrite in highly chloritic mafic as discontinuous veinlets, cubes and fine disseminations. There may be two types of pyrite:									
		brass and darker brownish.									
207.0	213.0	Felsic Volcanic-Rhyolitic Lapilli Tuff -fine grained, medium grey with lapilli to 3cm of porphyritic rhyolite, dark grey rhyolite and blackish rhyolite. The unit is weakly sericitic and may in part be chloritic. There are flow type features as at 210.6- 211.0 and 211.4-212.7m 209.0-209.6-pyrite section to 15% as fine disseminations, veinlets and cubic clusters. No base metals noted. Upper contact of unit is 46° to core axis. Lower is broken.									
213.0	222.9	Mafic Volcanic-Basalt -fine grained, medium to dark green, upper contact area to 215.5 l chloritic basalt fine grained soft, there is pyrite to 214.0m and carbonate veining. Below 215.5m the unit becomes speckled with white leucoxenitic flecks as in the units above. Lower contact area 221.5- 222.9m fine grained, white flecks disappear minor pyrite cubic clusters at lower contact which is a quartz vein 5cm wide.									
222.9	244.2	Felsic Volcanic -fine grained, to locally medium grained, colour is highly variable from medium grey to grey brown to pale greenish white, to grey, The unit is sericitic quartz/quartz ankerite veined, weakly mineralized.			,						

							Assa	ys			
From	То	Description	Sample	From	То	Length	Cu	Zn	Pb	Ag	Au
			#			(meter)	ppm	ppm	ppm	g/ton	ppb
		222.9-228.9-medium grey brown sericitized silicified. Upper section of unit has whitish grey green sections of albite? chert. The unit is very fine grained. Quartz ankerite veins appear below 227.0m. Minor pyrite, chalcopyrite and possible sphalerite.	40531	227.2	228.2	1.0	223	38	5	0.1	7
		228.9-231.55-gradational contact with above. Unit is pale yellow green, sericitic, quartz veined with white veins to 10cm 75° to core axis and clear narrow veins sub parallel to core axis. Minor pyrite. 231.55-234.7-medium grey with pale green sericitic sections. This unit has contacts at 15° upper and 54° lower. There are small quartz veins with possible ankerite. This unit may be a fine grained tuff layer. There are amygdules to spherules at 234.2m to 234.5m.	40532 40533	228.2 230.1	229.2 231.5	1.0 1.4	16 28	3 2	9 20	0.1 0.1	2 nil
		234.7-240.0-fine to medium grained, pale to medium green grey sericitic, possible lapilli small <0.4cm, locally grainy in appearance. There are small probable dark chlorite flecks to local patches with pyrite pyrrhotite being preferential to these and quartz veined sections.	40534 40535	237.2 239.8	238.2 240.8	1.0 1.0	348 147	282 247	3 11	0.3 0.2	nil nil
		240.0-244.2-as above but chlorite patches are larger and contain chalcopyrite, pyrrhotite, pyrite and sphalerite overall percentages can be 2% and sphalerite <1%. The chlorite patches contain spherules or amygdules filled with possible feldspar?. The distribution of the chlorite is random but give the unit a locally fragmental appearance.	40536 40537 40538	240.8 241.8 242.8	241.8 242.8 244.2	1.0 1.0 1.4	459 3430 148	337 970 166	21 22 1	0.8 3.4 0.2	2 22 nil
244.2	266.9	Felsic Volcanic-Rhyolite -this unit displays a multiple textures, has variable colours. Generally the unit is fine grained, light to medium grey green to green grey. Locally the unit is grey with local chlorite overcast, is ubiquitously sericitic with local chlorite. There are small layers of biotite rich probable tuff sections as at 253.5 to 254.0m, contacts at 45° to core axis. There are porphyritic to vesicular sections with feldspar filling vesicules, light grey. These sections are cherty in appearance and the vesicules are weakly aligned 80° to core axis. 244.2-249.3-possible lapilli tuff, rhyolitic with lapilli									

							Assa	ys			
From	То	Description	Sample #	From	То	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		to 0.5cm dominantly towards upper contact. This section has chlorite patches similar to above units but less abundant. 249.3-253.5-more massive in appearance sericitic 253.5-255.0-tuffaceous nature includes band of biotite rich tuff. 255.0-258.8-fragmental section, fragments are pale to light grey grey brown. Cherty in appearance supported in sericitic, medium grained matrix. 258.8-266.9-this section appears crudely layered, to banded with cherty rhyolite with vesicules and more massive to locally fragmented layers. The end of the unit has coalesced vesicules that form masses. Lower contact crushed with limonite staining. There is a layer of biotitic tuff at 265.5-265.7m. Upper contact 30°, lower 80°									
266.9	270.0	Fragmental Rhyolite -fine grained, light to medium grey green, sericitic with fragments to 0.5cm generally. There is minor quartz veining, white 30cm long (1 vein) 268.8-269.9-breccia section, angular fragments in weakly chloritic matrix. Fragments are up to 2cm in size 269.9-270.0-cherty rhyolite-fine grained pale beige to grey.									
	270.0	End Of Hole Acid Test - 270m -44									





Declaration of Assessment Work Performed on Mining Land

L Transaction Number (office use) <u>2060</u> Rido Assessment Files Research Imaging

Mining Act. Subsection 65(2) and 66(3), R.S.O. 1990

42A05NE2025	2.20034	GODFREY	
Instructions:	- For wor	k performed on	Crow

subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, 11 ment work and correspond with the mining land holder. Questions about this collecti-pment and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

ions:	- For work performed on Crown Lands before recording a claim, use form (
	- Please type or print in ink.	No.	•	5. j. j.	•	:
		•				

900

1. Recorded holder(s) (Attach a list if necessary)	
Name Explorers Allique CorpoRATION.	Client Number 303065
Address 350 BAY ST STA FLOOT	Telephone Number 416 360 - 53 33
· TOFONTO ONTANIO MSH 256	Fax Number 416 360 4419
Name	Client Number
Address	Telephone Number
	Fax Number
	<u></u>

	GODErey -Bristol
2.	Type of work performed: Check (*) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, s assays and work under section	surveys, on 18 (regs)	U	Physical: drilling strip trenching and associa	ping, ated assays	Rehabilitation
Work Type				Office	Use
DiAMOND Drilline				Commodity	
				Total \$ Value of # 2- Work Claimed	7,706
Dates Work From 2 1 1 Performed Day Month 1	999 To J Year Da	14 14	12 1999 Month Year	NTS Reference	∩
Global Positioning System Data (If available)	Township/Area	500,2	rey.	Mining Division	Trausine
	M or G-Plan Numb o r	GЗ	991	Resident Geologist	innins.

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;

- provide proper notice to surface rights holders before starting work;

- complete and attach a Statement of Costs, form 0212;

- provide a map showing contiguous mining lands that are linked for assigning work;

- include two copies of your technical report.

3.	. Person or companies who prepared the technical report (Atlach a list if necessary)								
Nam	Georgi Exploration-		Telephone Number 705-267 - 3511						
Áddi	16 168 Alconania Blus E Timmus	RECEIVED	tually 705267-3121						
11.111	· · ·	JAN 2 1 2000	Telephone Number						
- 11	· · ·	GEOSCIENCE ASSESSMENT	Fax Number						
Name			Telephone Number						
Addr	xss		Fax Number						

Certification by Recorded Holder or Agent 4.

I.	Livel Borhomme	4 ev T, do hereby certify that I have personal knowledge of the facts set form in
this	(Print Name) Declaration of Assessment Work h	aving caused the work to be performed or witnessed the same during or after its
com	pletion and, to the best of my know	ledge, the annexed report is true.

Signature of Recorded Holder or Agent	\geq	Date JANHAMY 10,2000
Agent's Address	Telephone Number 70 5 267 - 35 11	Fax Number 705267-3121
10 Dana Site	(D)	

0241 (03/97)

JAN 19 2000 C. 3:45 PM N PORCUPINE MINING DIVISION land where work was provided, at the time work was perioritied. A map browing the borning tum. r

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining clalms.	Bank. Value of to be distributed at a future date
eg	TB 7827	16 ha -	\$26,825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
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-	Column Totals			17 200	17200	10506

Bohn _ , do hereby certify that the above work credits are eligible : 1. (Print Full Name)

subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the cla where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
	I'NUA AMY 10, 2000

Instructions for cutting back credits that are not approved. 6,

Some of the credits claimed in this declaration may be cut back. Please check (1) in the boxes below to show how you with prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated. 2
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 11 3. Gradits are to be cut back equally uver all claims listed in this e

4. Credits are to be cut back as prioritized on the attached appendix or as

JAN 2 1 2000

GEOSCIENCE ASSESSMENT Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only		
Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Minir	ng Recorder (Signature)



0241 (03/97)



Northern Development and Mines

Statement of Custa for Assessment Credit

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Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Unus section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development a Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 685.

Depending on the type of work, list the number of hours/days worked, metres of drilling, kilo- metres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost	
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8 DAYS 99-4	O 300	2400 .	
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, mobilization and demobilization).			
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HECEIVED	657-	1812	
JAN 2 1 2000	Assessment Work	27,706	
OFFICE			
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Yahio of Assessment Work. If this obsisten upplies to your closure, our the calculation below:

TOTAL VALUE OF ASSESSMENT WORK

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Note:

- Work older than 5 years is not eligible for chedin:

- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

Lionel Barhousse Bart, do hereby certify, that the amounts shown are as accurate as mu; I, reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated or the accompanying Declaration of Work form as (recorded holder, age: or state company position with signing authority) I am author ... to make this certification.

Dalo 74~ 10/90

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

March 1, 2000

EXPLORERS ALLIANCE CORPORATION 350 Bay St., 8th Floor Toronto, ONTARIO M5H 2S6



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9845 Fax: (877) 670-1555

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.20034

Status
Subject: Transaction Number(s): W0060.00020 Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact STEVE BENETEAU by e-mail at steve.beneteau@ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

a the

ORIGINAL SIGNED BY Blair Kite Supervisor, Geoscience Assessment Office Mining Lands Section

Correspondence ID: 14623 Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.20034						
Date Correspondence Sent: March 01, 2000		Assessor:STEVE BENETEAU				
Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date		
W0060.00020	834574	GODFREY	Approval	March 01, 2000		
Section: 16 Drilling PDRILL						
Correspondence to:		Recorded Hold	er(s) and/or Agent(s):			
Resident Geologist		Lionel Bonhomme				
South Porcupine, ON		TIMMINS, ONTARIO, CANADA				
Assessment Files Library Sudbury, ON		EXPLORERS ALLIANCE CORPORATION Toronto, ONTARIO				
			FALCONBRIDG TORONTO, ON	E LIMITED TARIO		

MAP SYMBOLOGY



LANDS SHOWN HEREON

42A05NE2025 2.20034 GODFREY



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