DIAMOND DRILLING

Township: Bristol

Report No: 28

WORK PERFORMED FOR: Roland Poirier

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER [ ]

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
P 752198	B.O. - 1	800'	Oct-Nov/85	(1)
P 752199	B.O. - 2	600'	Nov/85	(1)

NOTES: (1) #459-85

BRISTOL OPTION PROPERTY

REPORT ON DRILL PROGRAM

NTS# 42 A/7

BY: VINCENT PALMA

DATED: NOVEMBER,1985

FOR: UTAH MINES LTD

BRISTOL OPTION

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1. SUMMARY OF DRILL HOLES, CONCLUSIONS AND RECOMMENDATIONS

1.1 Drill Hole B.0.1. was collared on claim No. 752198 to test an auriferous quartz-carbonate vein within a shear zone exposed in trench No. 4 and two geophysical anomalies (an I.P. anomaly and a VLF anomaly) occurring to the south of the trench.

The drill hole penetrated a sequence of volcanic rocks ranging from mafic to intermediate flows and lapilli tuffs. Massive volcanic units and lapilli tuffs are locally brecciated. Two minor sheared graphitic horizons containing minor quartz veining, of which one contained less than 1% disseminated pyrite, were intersected in contact with tuffaceous material.

Mineralization comprises trace to 0.5% disseminated anhedral grains and smears of pyrite and pyrrhotite along joints and trace disseminated pyrite in schistose intermediate volcanic. In one instance up to 1% disseminated pyrite was observed in the footwall of a one-foot wide quartz vein. Large sections of core are devoid of sulfides and the overall sulfide mineralization is minor.

A one foot wide quartz vein and sheared graphitic unit corresponding to the quartz veining and shearing in trench No. 4 is intersected at 161.2 - 172.8 feet.

The I.P. anomaly is interpreted at depth (435.2 - 436.2') to be the geophysical response of a tuffaceous fragmental unit (lapilli tuff) one foot wide which contains up to 2% disseminated pyrite plus pyrrhotite in the matrix.

A graphitic shear horizon which contains 5% quartz vein material is interpreted at depth (566.1 - 566.8 feet) as causing the VLF anomaly. There is no visible sulfides in this section.

1.2 Drill Hole B.0.2. was collared on claim No. 752199 to test a favourable shear zone and quartz-carbonate veining exposed in trench No. 6 and two geophysical anomalies (an I.P. anomaly and VLF anomaly) occurring to the south of the trench.

Drill hole B.0.2. is located 475 feet west of drill hole B.0.1. and geologically both drill holes are similar.

Drill hole B.0.2. penetrated a sequence of volcanic rocks ranging from massive mafic to intermediate flows to lapilli tuffs. Massive volcanic units and lapilli tuffs are locally brecciated. A massive unit near the end of the hole may be fine grained intrusive equivalent to the mafic (basaltic) volcanic sequence.

Mineralization consists of restricted sections bearing trace to a maximum of 0.5% disseminated pyrite plus pyrrhotite commonly occurring in the brecciated sections of the sequence. Trace pyrite and pyrrhotite is also observed in a massive mafic flow (or possibly fine grained mafic intrusive) near the end of the hole. Quartz veins and veinlets generally barren, are also observed throughout. Overall, sulfide and quartz mineralization is minor.

The quartz veining and shearing observed in trench No.6 was not intersected at depth suggesting that the vein and shear zone pinch out.

The I.P. anomaly is interpreted at depth (337-347.1 ft) to correspond to a 10 foot long brecciated section of intermediate volcanic flows bearing 0.5% disseminated pyrrhotite within the breccia matrix and trace pyrite along fractures.

The VLF anomaly is interpreted at depth (480-484.5 ft) to correspond to a sheared graphitic section containing quartz vein material.

1.3 Conclusions and Recommendations minor quartz veining and little sulfide mineralization were observed associated with massive, locally brecciated volcanic flows and lapilli tuffs. Chlorite alteration is weak to moderate throughout both drill holes, while carbonate alteration (calcite)is present locally in minor amounts.

The geological and geophysical targets tested have been adequately explained. The core from the two drill holes offer little or no encouragement and therefore justification to continue testing the dip or strike extension of the geophysical anomalies is unwarranted.

Unless significant gold values are obtained from the samples taken, I recommend that we return the Bristol option claims to Mr. R. Poirier, owner of the claims.

2. REPORT ON DRILL PROGRAM: BRISTOL OPTION PROPERTY

2.1. Introduction The Bristol Option Property is a 38 claim group located in Bristol Township, Porcupine Mining Division.

Detailed I.P. and VLF geophysical surveys along N-S grid lines 400 ft. apart and geological mapping at a scale of 1 inch = 200 ft. were carried out during 1984 and 1985. Two long NE-SW to E-W trending I.P. anomalies and one weak and discreet VLF anomaly traverse the property. The drill holes located in the eastern section of the property were designed to test the depth extension of auriferous quartz-carbonate veining and shearing exposed in trenches No. 4 and 6 (claims 752198 and 752199 respectively) and the I.P. and VLF anomalies occurring to the south of the trenches. On this basis DDH B.0.1. was located 720 feet on a 022 degrees bearing from claim post No. 3 of claim 752198. The hole was drilled at a minus 45 degree angle on Azimuth 177 degrees. DDH B.0.2. was located 720 feet on a 337 degrees bearing from claim post No. 2 of claims No. 752199. The hole was drilled at a minus 45 degree angle on Azimuth 173 degrees.

A total of 91 samples were taken from split sections of core to be analyzed for gold, of these samples, 52 belong to DDH B.0.1. and 39 belong to DDH B.0.2.

2.2 Drill Program a contract for 1400 feet of diamond drilling (BQ core size) was awarded to Norex Drilling Company. Drilling commenced October 29, 1985 and was completed on November 6. DDH B.0.1. required 11.5 feet of casing and was allowed to reach a depth of 800 feet. DDH B.0.2. required two feet of casing and was allowed to reach a depth of 600 feet. Recovery for both drill holes was better than 98%.

2.3 Geology of the Drill Core - Holes B.0.1. and B.0.2.

Drill Hole B.0.1. reached a depth of 800 feet. It intersected massive to intermediate volcanic flows (basalt, andesite, and possibly dacite) interlayered intermittently with tuffaceous fragmental units strongly resembling lapilli tuffs. The massive flows and lapilli tuffs are locally brecciated. The andesites (possibly basalts) are locally schistose, moderately chloritic, weakly carbonatized (calcite) and have a bleached aspect. Sections displaying weaker chloritic alteration, lighter green in colour and harder to scratch were logged as dacites to andesites. Lapilli tuffs consist of clasts varying in size from a fraction of an inch up to one inch, have ovoidal shape and appear dacitic to andesitic in composition. The matrix is chloritized to a greater degree than the clasts and

thus is mafic. Brecciated sections in the massive flows and lapilli tuffs are characterized by a chlorite-quartz matrix accounting for more than 5% of the core. Sub-parallel quartz-calcite veinlets are generally few and occur in schistose (tuffaceous?) andesite sections parallel to the schistosity.

Drill Hole B.0.2. reached a depth of 600 feet. It consists of massive intermediate to mafic flows and lapilli tuffs. This hole is similar to hole B.0.1.

The massive flows are moderately chloritic and locally display weak carbonate (calcite) alteration associated with calcite $\pm$ quartz veinlets. Minor weakly chloritic, light green coloured sections were logged as being dacitic to andesitic in composition. For the most part, however, the volcanic sequence has an andesitic to basaltic composition. The overall colour is medium green, and texturally the volcanics are fine grained. Minor sections display a schistosity parallel to the quartz veinlets. A faint crenulation on the schistosity planes was observed in several places. Lapilli tuff units are similar to those described for hole B.0.1. Brecciated sections occur both within the massive flows and lapilli tuffs. Towards the end of the hole there is a mafic unit that has an intrusive character. This unit contains minor feldspar porphyritic sections and may represent an intrusive equivalent to the massive volcanic flows.

2.4 Alteration and Mineralization - Holes B.0.1.and B.0.2. Chloritic alteration is ubiquitous throughout throughout ranging from weak to moderate. Carbonate alteration is weak and locallized in sections containing quartz-calcite veinlets and calcite fracture filling.

Quartz is present as veins ranging from 1/4" to one foot wide, is generally minor, and does not appear to have affected the adjacent wall rock. The bleached aspect of the volcanics cannot be readily ascribed to silicification.

Disseminated pyrite and pyrrhotite occurs in trace amounts associated with breccia matrix and with chlorite wisps. Disseminations of up to 0.5-2% Py-Po are observed in some of the small graphitic units. A ten foot section of brecciated flow has up to 0.5% disseminated pyrrhotite and trace pyrite.

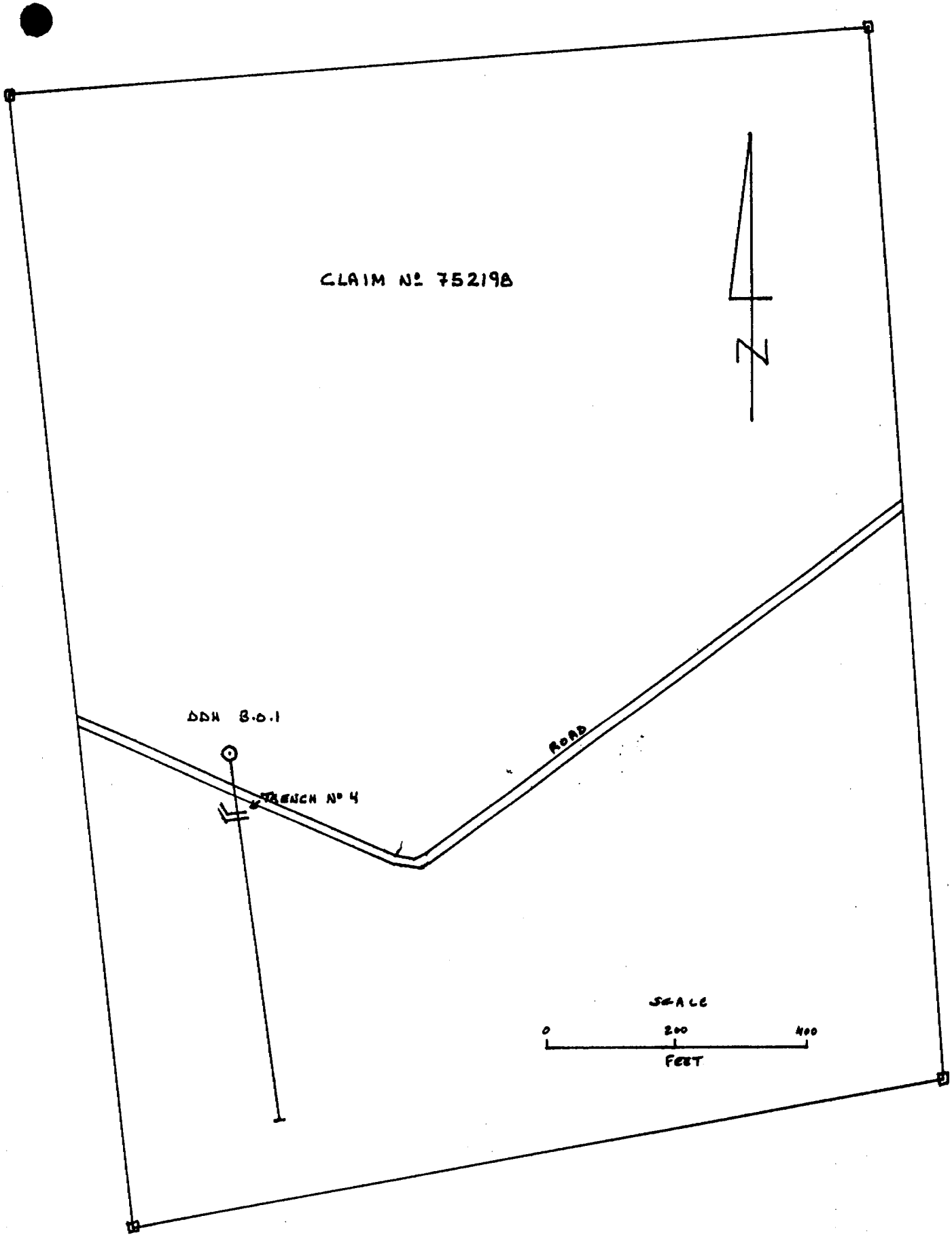
2.5 Structure - Holes B.0.1. and B.0.2. A large proportion of the intermediate to mafic volcanic sequence in both drill holes is massive with lesser schistose sections. These massive flow units are interlayered with several lapilli tuff units. Brecciation of the massive sections is locally common. The rock fragments are sub-angular and set in a matrix of quartz and chlorite. Matrix accounts for only 5% of the core in the brecciated sections. Brecciation of lapilli tuff can also be observed in several of these units and is recognized by the presence of broken ovoidal clasts in the chloritic matrix. The lapilli fragments are parallel to sub-parallel to the schistosity. Locally injected quartz-calcite veinlets are also parallel to the schistosity.

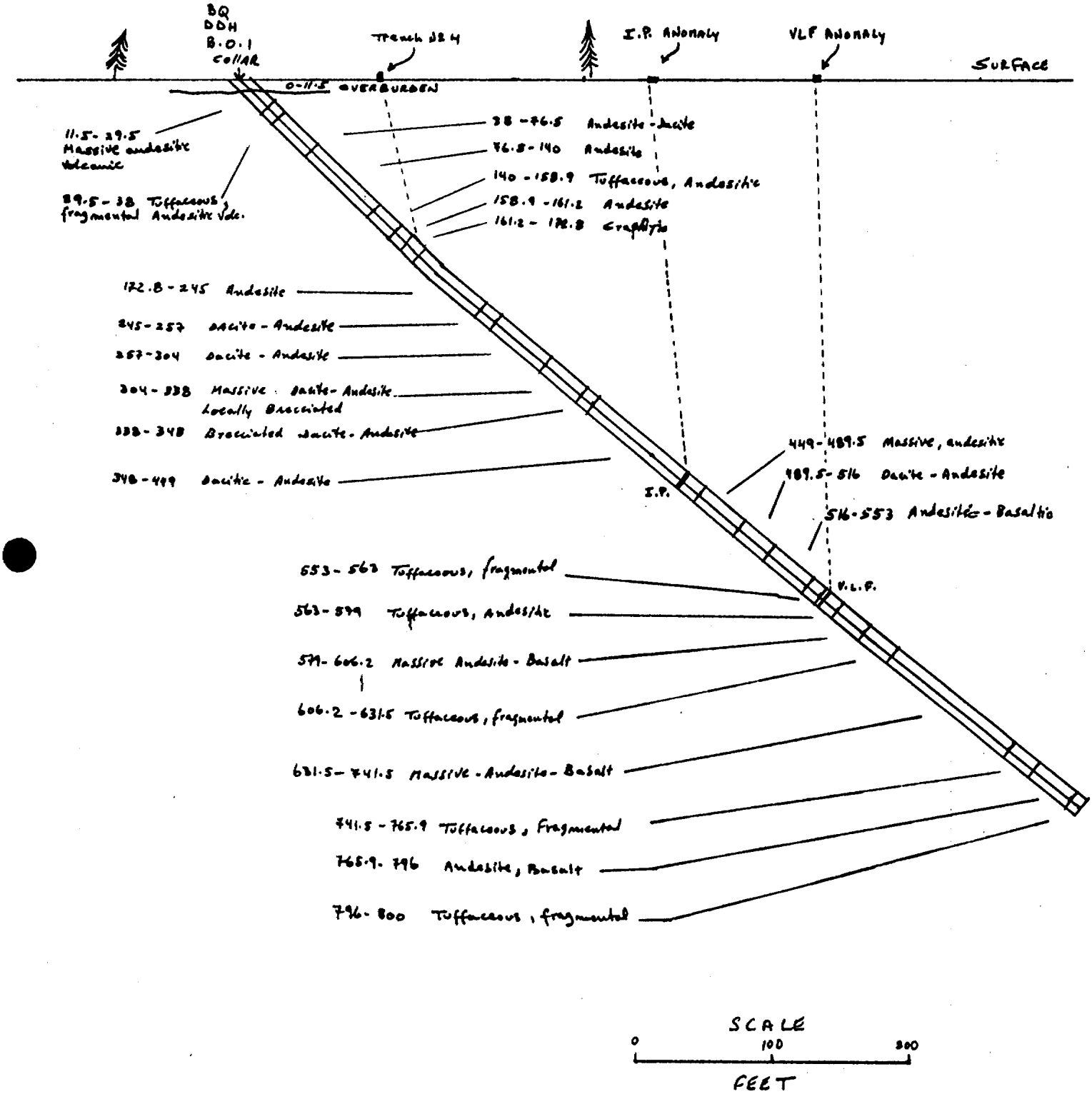
These structures are generally at 40 to 70 degrees to the core axis. Schistosity is recognized by the alignment of chlorite in the intermediate and mafic volcanic units and by platy graphite in the graphite sections.

Joints ranging from 35 to 55 degrees to the core axis are commonly present in the volcanic sequence and locally contain smears of pyrite and pyrrhotite Chloritic slikensides characterize these joints. Few fractures ranging from 5 to 35 degrees to the core axis and generally infilled by calcite were also noted. Pyrite is rare in fractures. Minor sections of the core are well fractured giving it a shattered appearance.

Glassy white to smokey-grey quartz veins are minor and range from 1/4 inch to 1 foot wide. Two predominately calcite veins up to 6 inches wide containing some 20% quartz material were also observed.

APPENDIX 1


CLAIM No. 752198
N
DDH B-0-1
TRENCH No. 4
ROAD
SCALE
0
200
400
FEET


BQ
DDH
B-01
COLLAR
Trench 82-4
I.P. ANOMALY
VLF ANOMALY
SURFACE
0-11.5 OVERBURDEN
11.5-29.5 Massive andesitic volcanic
29.5-38 Tuffaceous, fragmental Andesitic Vole.
38-76.5 Andesite-Dacite
76.5-140 Andesite
140-158.9 Tuffaceous, Andesitic
158.9-161.2 Andesite
161.2-172.8 Graphitic
172.8-245 Andesite
245-257 Dacite-Andesite
257-304 Dacite-Andesite
304-338 Massive Dacite-Andesite Locally Brecciated
338-348 Brecciated Dacite-Andesite
348-449 Dacite-Andesite
I.P.
449-489.5 Massive, andesitic
489.5-516 Dacite-Andesite
516-553 Andesitic-Basaltic
553-563 Tuffaceous, fragmental
V.L.P.
563-579 Tuffaceous, Andesitic
579-606.2 Massive Andesite-Basalt
606.2-631.5 Tuffaceous, fragmental
631.5-741.5 Massive-Andesite-Basalt
741.5-765.9 Tuffaceous, Fragmental
765.9-796 Andesite, Basalt
796-800 Tuffaceous, fragmental
SCALE
0
100
300
FEET

Hole No. B.O.1 | Project: BRISTOL OPTION | Page No: 1 of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: oct. 29, 1985 | Ref. to Claim Corner: 720 ft on 022° Az from c.P. No 8 of FS 2198

Coordinates: L.56 W 16 N (140' due W) | Date Finished: Nov. 1st, 1985 | Scale: 1" = 10 ft

Inclination: 45° | Bearing: 177 Az | Total Depth: 800 ft | Logged By: V. PALMA

COMMENTS: a) Quartz veining & graphitic section at 161.2 - 172.8 (Trench 4)
b) I.P. anomaly intersected at 435.2 - 436.2
c) VLF anomaly intersected at 566.1 - 566.8

AVE CORE REC'Y/HOLE 100%

SECTION	ALTERATION: Carb	Silicif	Chlorit	Sericite	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY: Descriptive	DESCRIPTIVE GEOLOGY: General	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
0								10 ft Casing	0 - 11.5 ft Overburden few cobbles.		(11.5)					
10																
20	W		H		M		X	13.5 qtz vein 1/2" 70° c/A NVS 15.5 qtz veinlet 1/16° 30° c/A NVS 20-26 intense shearing, minor rustiness, N.V.S., 50° c/A 28 Calcite veinlet 93° c/A qtz veinlet 20° c/A (450')	11.5 - 29.5 Generally massive andesitic volcanic, locally sheared, fn.gr., mod. chloritic, WK carb. (calcite), many calcite veinlets, minor qtz veinlets, locally bleached sections due to minor qtz veining, v. minor rustiness, N.V.S. ONE MINOR lapilli Tuff section observed.		16	100	BQ				
	W		H				X					60%				
	W		H				X				26					
30			E/H					33 fracture 55° c/A NVS 33.1 Minor epidote pods 1/4"	29.5 - 38 LAPILLI TUFF Tuffaceous, fragmental ovoidal to angular frags., Andesitic, chloritic, DK green matrix, lighter green clasts, Minor qtz & calcite veinlets.		36	100				
40						↑ Pg		44.5 trace pyrite in fracture 70° c/A	38 - 96.5 Light green coloured, fn.gr., Dacitic to andesitic, massive, WK to mod. chloritic alteration, not carb., trace pyrite, minor qtz veining (barren). many chlorite wisps and fractures giving it a foliated/schistose (?) texture locally (60° c/A).		46	100				
			W/H					48 qtz-Ca veinlet barren 55° c/A								
50								53.1 qtz vein 1/8 - 1/4" glassy white barren 60° c/A				100				
								58.2 2" wide section containing qtz & chlorite & calcite veinlets @ 60° c/A			56					
								58 Calcite - qtz. veinlet 1/4" wide					V			

Hole No. Bo1 | Project: Bristol option | Page No: 2 Of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: october 29, 1985 | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: November 1st, 1985 | Scale: 1" = 10 ft

Inclination: | Bearing: | Total Depth: | Logged By: V.P.

SECTION	ALTERATION: Carb	Silicific.	chlorite	Sericite	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
60			↑			↑	/	61 qtz-chl veinlet (50:50) 1/8-1/4", 70° c/A, NVS				100	BQ ↓			
			W / M			Tr Py	\	65 chloritic joint tr py 65° c/A			66			66.3 – 68.5	100	Tr
70							/	66 qtz veinlet 30° c/A; calcite veinlet 50° c/A (x80)				100		68.5 – 69.5	100	WHOLE ROCK
			↓			↓	\	69.6 2 inches wide Brecciated Section Bleached (silicified?) cemented by glassy white qtz.			76					
80	W	M	W / M	W ?			/	78 qtz calcite veinlet (30:70) 1/8" Barren 75° c/A				100				
							/	80 1/2" Bleached Section is yellow cast (sericitic?) silicified, NVS								
							/	83 fracture @ 90° c/A			86					
90							∴	84.5 Parallel qtz calcite veinlets accompanied by minor hematite staining, 2" wide, 32° c/A				100				
	W		W / M				/	89.6 qtz-Calcite (95:5) vein, irregular walls, Barren, 1/4" wide, 40° c/A			96					
100							/	90 calcite pods up to 1/4" NVS								
							—	102.2 joint, chloritic, calcite, 32° c/A		0.5% Py Po diss		100		102.3 – 103.4	100	Tr
							—	105 irregular 1/4" wide quartz pod, NVS			106					
110							—	107.2 milky white qtz vein, Trace py, 90° c/A								
	W		W / M				/	111.2 qtz veinlet 1/10" wide, N.V.S. 70° c/A				100				
							/	116 qtz vein 1 1/2" W. contains angular wall rock frags. chloritic, Minor Calcite 70° c/A.			116					

76.5 – 140 Similar to the unit described above but this one is darker Coloured. Md. green Coloured, f.m.gr., massive, WK-Mod chloritization, v. minor calcite veinlets, irregular wisps & hairs of chlorite, few chlorite pods. Trace – 0.5% Py Po locally.

Compositionally it is an andesite

Hole No. B.D. 1 | Project: BRISTOL OPTION | Page No: 3 Of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carb	Silicif.	Chloritiz.	Sericite	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	DESCRIPTIVE GEOLOGY: GENERAL	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
								AVE CORE REC'Y/HOLE								
120	W		W					120.9 Qtz-Calcite (50:50) vein 1/3" w. 75° c/A. NVS 126.6 Calcite-qtz vein 1/4" w (70:30) 75° c/A. 132 Calcite rainlet 1/20" 21° c/A 136.8 Qtz vein 1/8" 19° c/A NVS			126	100	BQ			
130	W		W/M								136	100		137.2	100	Tr
140	W/M		M					140.1 Qtz Calcite rainlet 1/10" w. 36° c/A 143.5 joint @ 45° c/A 143.9 tr. Py, 1 Qvein 1/20" w. 147.2 qtz vein, irregular, brctd, 2" wide soln cv 70% Qtz, NVG, 45° c/A 154.4 Qtz vein, minor calcite 3/4" w. 45° c/A	140-158.9 Tuffaceous Andesitic Unit. Stronger carbonate alteration than the unit above, but still relatively weak, locally moderate. Multiple calcite & qtz rainlets @ 36° c/A, Minor Qtz veining. Overall unit is medium grey-green, mod. chloritiz, locally V. WK Sericit. alt., possibly WK silicif., Note: Carbonate = Calcite	Tr Tr Tr Tr Tr	146 156	100 100		140.2 143.2 146.2 149.2 152.2 155.2 158.2	100 100 100 100 100 100	Tr Tr Tr Tr Tr Tr
160	W		W					No comment	158.9-161.2 massive, green Carb., Andesitic, fn.gr., V. minor Qtz & Calcite veinlets, WK Carb., WK Chloritiz., NVS.			100			100	Tr
170						Py Qtz		161.2-164.2 many ll graphite slips 77° c/A 164.2-167.1 massive, shaby, graphitic Trace - 0.5 V. diss Py 167.1-168.2 qtz vein, massive, angular Wall rock 168.2-171.5 strongly graphitic schistose shaby with minor Pyrite 171.5-172.8 less graphitic metased. tr Py	161.2-172.8 Shaley graphitic unit becoming progressively more graphitic & schistose over 1.1 ft w. Qtz vein (barren). 1% diss Py on footwall, Trace Py on Hangingwall.	0.5% Py diss	166	100		161.2 164.2 167.2 168.2 171.5	100 100 100 100	Tr Tr Tr Tr
			M					173-185 grey Calcareous WK-Md Carb (Ca) WK chlorit.	172.8-245 green and medium green-grey (locally) Calcareous, massive, fn.gr., mod. chloritiz., Andesite		176			172.8 175.8	100	Tr

Hole No. B.O.1 | Project: BRISTOL OPTION | Page No: 4 Of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

COMMENTS:

AVE CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

Descriptive

186 Qtz veinlet ± chlorite < 1/20" w. 22° c/A

186.1 tr. py.

189 Joint. (calcite) smeared trace Py rite & pyrrhotite. 40° c/A

193 Joint. Calcite, Po. 43° c/A

198.5 fine grained granular mass. mod. green Colored, trace to 0.5% by (max) finely diss.

204 1/2 ft Wide Well fractured zone
Joint. chloritic. 10° c/A
fracture. Calcite. 42° c/A
fracture. Calcite. 31° c/A

210 Qtz Calcite vein (35:65) 1" Wide small (1/4") angular Wall rock fragments N.V.S.

2K Brecciated, 3" Wide, matrix chlorite & calcite irregular veinlets N.V.S, WK carb.

219.5 to 222.1 Brecciated. irregular contact at 30° c/A up hole and 41° c/A down hole. 2 ft 6" wide. Minor diss. Po., WK-Mod chloritic, WK carb. Fragments (?) to 1/4" angular.

228-234 Grey Colored, 2K-Mod Calc carb., WK chloritic.

229 fracture 35° c/A

232.7 Qtz vein 3 1/2 inches w. glassy Grey Qtz, minor Calcite, N.V.S., 58° c/A

General

Volcanic, few Qtz veins and veinlets, minor calcite veinlets and pods. Greyish Colored sections are WK to mod (?) Carbonatized (calcite). Greenish sections are more chloritic, many irregular chlorite slips and (ovoidal pods ?). Minor Brecciated sections in which the matrix is also relatively minor

SECTION	ALTERATION: Carb	Silicif	Chloritic	Sericite	FRACTURING	MINERAL	GEOLOGY	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
180										100	BQ	182.5		
								1% Py in veinlets				184.5	100	Tr
									186					
190							Tr Py			100				
									196					
	W		M					Tr Py						
200	/						Tr Py			100				
	M								206					
210										100				
							Δ		216					
							Δ					219.3	100	Tr
220							Δ			100		222.3		
									226					
230												230.4	100	Tr
									236	100		233.7		

Hole No. B.O. 1 | Project: BRISTOL OPTION | Page No: 5 Of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carb.	Silicif	Chloritiz	Sericite	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated
240								239 Parallel calcite veinlets @ 45°c/A many calcite wisps @ 45° c/A 244 irregular podiform qtz veinlet or vein				100	BQ			
250	W/M	W						255 qtz calcite veinlets (20:80) @ 50°c/A, qtz veinlets @ 10°c/A. & 60°.			246 256	100				
260	W/M	W				Tr Py		265.5 Calcite veinlets 56°c/A N.V.S.			266	100				
270	W/M	W				Tr Py		269 Calcite veinlet (fracture filling) 50° c/A 272-284 Zone of mod. calcite veining many calcite veins up to 1/4" Trace pyrite. 278 irregular qtz calcite vein (30:70) 1" wide 52° c/A			276	100		272 275.5	100	Tr
280	W/M	W				Tr Py Po		279 Podiform calcite veins 1/4"-1" approx 20° and 56° c/A (& 76) 283 smeared trace Py Po along fracture/joint 79°c/A			286	100		276 279	100	Tr
290						Tr Py Po		290.5 fragmental tr. Py 293 Tr. Po in chloritic slip 296.5-298.4 Grey calamed Wk-Md Carb. (calcite), Wk. chloritiz. metasedimentary (?)			296	100				

DESCRIPTIVE GEOLOGY

Descriptive

245 - 257 ~~Dacitic to Poss. Andesitic~~ fragmented (?) unit angular clasts of irregular shape and size (1/8" - 1 1/2") locally there seem to be flow texture (especially due to larger ovoidal clasts, to 1/2"). clasts Wk. to mod Carb. (calcite) in chloritic (minor) matrix. Contact @ 47°c/A. NVS

257-304 ~~Dacitic to Poss. Andesitic~~ Generally brecciated or fragmental but also contains many sections which appear massive. hard to distinguish a true contact. Lt to med. green calamed, locally grey due to the influence of qtz calcite veinlets, weakly chloritic, weakly to mod. carbonatized (calcite), many calcite veinlets. one metasedimentary unit 1.8 ft wide @ 296.6-298.4 shaly. chloritic slip throughout. Also trace Pyrite throughout this unit.

Hole No. B-0-1 | Project: BRISTOL OPTION | Page No: 6 Of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carb	Silicif	Chloritiz	Sericite	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY — Descriptive	General	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
300						Tr	/	298 qtz vein glassy white-grey 1/2" W. Tr. Py, minor calcite, 30° c/A					100	BQ			
							/	303 qtz vein 1/4" W. 55° c/A									
	W	W					/	307 trace finely diss. Py + Po in mass. And., wk chlorit.	304-338 Predominantly massive Dacitic (poss. Andesitic) Volcanic wk chloritiz, minor narrow Brecciated fractures, weakly carb. (calcite), qtz-carb (cal) veinlets. fine gr. to aphanitic, lt to medium green, many chlorite wisps. — Trace Py.		306					
310							/	310 fracture @ 20° c/A					100				
							/	311.6 2" Wide Breccia NVS									
							/	314.2 qtz vein, calcite, 1/8" W., NVS, 52°/A				316					
							/	317.1 trace Py, Weakly Carb. (Cal).									
320							/	321.0 Tr to 0.5% finely diss Po assoc. w chlorite wisps (joints?).					100				
							/	324.7 Tr. Py associated w chloritic slips & pods.									
							/	327.5 Minor Po Trace Py				326					
330							/	330.5 fracture 18° c/A, qtz vein 43° c/A, Minor cal., Vein @ about 1/3" wide. NVS.					100				
							/	333 Trace diss. Py, minor Po.				336					
340		W				A	/	338.5 qtz vein, calcite, NVS, well fractured, 3/4 ft W., Wall rock fragments. @ 37° c/A.	338-348 Brecciated, dacitic to Andesitic Volcanic Brecciated and cemented by chlorite-quartz-calcite veinlets. matrix is 5% of core. Minor diss. Py. in matrix. Fragments massive of irregular angular shape and size.		Tr-0.5% Py		100				
						A	/	341.9 qtz vein 1/4" W. 58° c/A. Joint at 52° c/A.				346			345		
							/								347	100	Tr
350		W				A/A	/	349.1 Joint, smeared Py, chlorite, 49° c/A	348-449 Dacite to andesitic Volc. fine gr., mass., wk-mod. chlor. itization (due to Chlorite slips), wk chloritization, Nil Carb. Tr. Py. Minor Brecciated fractures by chlorite material acting as matrix. matrix minor. Also				100		353		
							/	353-358 Brecciated chloritic matrix Dac-And frags. minor qtz carb. material of irregular Podiform. Carb. is Calcite.				358			356	100	Tr

Hole No. B.O.1 | Project: BRISTOL OPTION | Page No: 7 Of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carb	ALTERATION: Sil. of	ALTERATION: chloritic	ALTERATION: Sericite	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

Descriptive	General
up to 0.5% diss. py in this section of core.	in places it appears to be brecciated by qtz-calcite matrix filling material.
363.5 Joint/fracture 52°c/A	One unit @ 435 looks fragmental, has 2% py (This unit is 1 ft wide & may be A capilli Tuff).
363.5 3" w brecciated section, matrix not abundant consisting of qtz-chl-cal infilling material. frags angular to 1/2" lag. other similar brecciated sections @ 368, 371, 378-380, 409.5-409.8. locally containing smeared py in joints	
365.7 qtz calcite vein 2.1" w. 65°c/A	
372 qtz vein glassy white-grey 1/4" @ 41°c/A	
372.1 chlorite wisp, Tr. py.	
378 qtz-chl. vein 1/4", min. Cal., @ 44°c/A	
383.4 joint/fracture, chloritic, smeared py Po, @ 58°c/A	
387 joint smeared py some cal., @ 35°c/A	
392.6 qtz vein white, gray, 2% py mm margin. vein 1/2" @ 45°c/A.	
396.3 glassy white & milky white qtz vein, min. Cal., Tr. py., 1/4" w. locally podiform, @ 22°c/A.	
397.7 qtz vein 1 1/4" w. 40°c/A glassy white-grey.	
401.1 3" w. well fractured (shattered) Section	
402.9-409 moderately fractured, locally shattered section. many fracts. & joints. joint (smeared Po) @ 30°c/A fracture (calcite) @ 5°c/A	

% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
	366	100	BQ	364.5		
				365.5	100	Tr
	376	100				
				380.5		
				381.5	100	Tr
	386	100				
0.5% py				392.3		
				393.5	100	Tr
	396	100		394.5	100	Tr
	406	100				
	416	100				

Hole No. B.0.1	Project: BRISTOL OPTION		Page No: 8 of 14
Casing Collar Elev.:	Ground Elev.:	Date Started:	Ref. to Claim Corner:
Coordinates:	N. E.	Date Finished:	Scale:
Inclination:	Bearing:	Total Depth:	Logged By:

SECTION | ALTERATION: Carb. / Silicif. / chloritiz / Sericite | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y/HOLE

Alteration (chloritiz), 420–450: W; 450–480: M

Section marks: 420, 430, 440, 450, 460, 470

DESCRIPTIVE GEOLOGY

Descriptive

435.2 - 436.2 fragmental unit. Dacitic fragments/clasts, Poss. tuffaceous, minor chloritic matrix. 2% Py + Po mostly in matrix. Lapilli Tuff?. <u>I.P. ANOMALY</u>

437 - 438 Brecciated, angular frags., cemented by qtz-calcite material 40% matrix, 60% clasts.

441.5 6" wide Brecciated section. Several joints w/ remobilized Py Po.

443 relatively minor milky white qtz veining of irregular and podiform texture, max 1/4" w.

446 fracture tr. Po. 53° c/A
joint smeared Py 66° c/A.

452.4 fracture/joint smeared Py Po, 34° c/A

452.7 qtz vein 1/4" 52° c/A

456.5 qtz veinlet 1/8" 50° c/A

461.7 1/8" qtz veinlet min. calcite 49° c/A

469 tr. py., chlorite wisps

473 smeared Po in joint

479 minor diss py. (<<0.5%) fine grains 1/20".

General

449 - 489.5 <u>massive, Andesitic, Hgs</u> bleached aspect, moderately chloritic, fine grained granular, minor calcite streaks, few chlorite wisps and/or stretched pods. fracturing, jointing ranging from 6° to 63° c/A. not carbonatized, minor quartz vein material. Smeared Py Po in fractures. Overall Tr. sulfides.

% Sulphides: 2% Py diss; 0.5% Py Po joints; 0.5% Py Po joints

Drilling Interval	% Core Recovered	Core Size
to 426	100	BQ
426–436	100	
436–446	100	
446–456	100	
456–466	100	
466–476	100	

Sample Interval	% Samp. Rec'y	Estimated Au
432–433	100	Tr
433–434.5	100	Tr
434.5–436.5	100	Tr
437.3–438.7	100	Tr
438.7–441	100	Tr
441–442	100	Tr
450.3–451.9	100	Tr

Hole No. B.O.1 | Project: BRISTOL OPTION | Page No: 9 of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

COMMENTS:

AVE CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION	ALTERATION: Carb.	Silicif.	Chloritiz.	Sericit.	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE	GENERAL	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated
480			M					482.5 fracture, calcite ± dk brown rusty colour, @ 60° c/A (only one seen so far). 486.9 Joint 26° c/A (qtz)			486	100	BQ			Au
490		M	W/M				A	489.5-491 multiple sub-parallel qtz veinlets, minor to 0.5% Py, silicified, minor chloritic wisps, Tr Po. 492-496 Brecciated aspect qtz matrix (Poss. due to many subparallel veinlets) 499 irregular qtz-chl vein 1" w. minor calcite. @ 80° c/A. 511.5-513 Pyrite along fracture (filling) ~1% Py, fracture @ 10° c/A.	489.5-516 Dacitic (Possibly Andacitic) comp., massive, several sections look like flow breccia. lt green coloured, locally med. green, fn. gr., weak to mod. chloritic, qtz veinlets. Nat carb. Very minor Pyrite (Tr)	0.5% Py Tr. Py in fracts	496 506 516	100 100 100		489.5 491 511.5 513	100 100	Tr Tr
520			W				A	518.1-519.2 looks brecciated, minor calcite, silicified, qtz matrix. 523-524.5 1.5 ft zone in which Pyrite occurs as fracture filling, overall 1-2% Py. one qtz vein @ 20° c/A. fractures (Py) @ 15° c/A. 530.5 Pink coloured carbonate (dolomite ?) veinlet 1/8" @ 40° c/A.	516-553 Massive Andesitic (Prob. mafic) Volc., med. green, fn. gr., Tr. Py., relatively minor Brecciated sections, minor qtz veining, minor calcite in fractures, minor chloritic alteration (W/M), Nil Carb.	1-2% Py in fracts	526 536	100 100		523 524.5	100	Tr

Hole No. B.O.1 | Project: BRISTOL OPTION | Page No: 10 Of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carb.	Silicific.	Chloritic	Sericit.	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated
540			W					537.5 - 540 Bleached aspect, Brecciated, qtz Py veinlets (overall ≤ 0.5% Py) chloritic. Penetrative fabric @ 53°/A					BQ			Au
								546 - 552 grainy; fm.gr., foliated or schistose (39°/A), Tuffaceous, Andesitic, not carb., Tr. Py.			596	100				
550												100				
			W					557.1 qtz veinlet 51°/A 559.2 Fracture / joint, calcite, smeared Po. 559.4 Two-inch wide section bearing diss Py ~0.5%	553 - 563 Tuffaceous, Fragmental, injected with qtz veinlets, minor calcite veinlets, minor qtz pods, overall Rx is lt green, WK chlorit., Dacitic comp.		556					
560												100		563		
570	W / M	W	W	W		Py		563 - 564.7 WK. Sericit., WK. Carb.; minor Py veinlets @ 40° c/A, 1/20" w., ~0.5% Py. V.L.F. ANOMALY 566.1 - 566.8 shear horizon containing 5% qtz vein material (glassy - milky white), N.V.S., Carb., carbonaceous (?), soft, Poss. chloritic, 568 qtz veinlets @ 35° c/A 573 - 574.4 5" wide qtz vein, 5% To., 45° c/A	563 - 579 Tuffaceous, Andesitic, grey coloured, locally yellowish (sericitic ?) greenish cast (chlorit?), foliated or schistose, injected by a multitude of sub-parallel qtz - calcite (minor) veinlets, minor graphitic horizon, minor qtz veining, WK - Mod carb. alt., locally sericitic, locally WK chlorit. foliation or schistosity @ 42° c/A	0.5% Py in veinlets	566	98			565 567 570 571.8 573.4 576	100 100 100 100 100 100	Tr Tr Tr Tr Tr Tr
						To Tr					576					
580			H					588.8 fracture, Tr. Py., 60° c/A. 597.5 Two sub-parallel qtz - Py veinlets, about 2% Py in a 2" wide section. @ 55° c/A.	579 - 606.2 Predominantly massive Andesite (Basalt?) locally schistose w tuffaceous aspect, green coloured, fine grained, mod. chlorit., not carb., erratic trace Py diss., minor qtz Py veinlets.		586	100		571.5		
590											596	100		597	100	Tr

Hole No. B.o. 1 | Project: BRISTOL OPTION | Page No: 11 Of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carb	silicif	chloritiz	sericit	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated
600								602.4 - 606.2 ill developed schistosity at 50-55°c/A.			606	100	BQ			AU
610			M/W			Tr Py		609.2 - 609.6 diss. py in hair thin fracts ~< 0.5% py 610 qtz Py veinlet (50:50) < 1/8", @ 52°c/A 616.2 2" wide section w < 0.5% diss Py related to schistosity fabric to Rx. 616.5 - 617 Brecciated, bleached. 618.8 - 619.5 Brecciated, lt green, chlorit. 624 - 625.7 diss. Py along hair thin fractures from 28°c/A to 52°c/A. overall w < 0.5% Py.	606.2 - 631.5 Predominantly massive, locally schistose (?) and brecciated fragmental, Tuffaceous, light - medium green colour, mod - wk chlorit., Nil carb., Tr. diss. py (locally up to 0.5%). Possibly Lapilli Tuff.	0.5% Py in fracts	616	100		609.3 609.8 610.9 611.4 616 616.5	100 Tr 100 Tr	
620										0.5% Py diss	626	100		624.6 625.6	100 Tr	
630												100				
640			M			Tr Py		637 Trace Py 644.1 Py grain ~ 1/8" 645.8 milky qtz - Py vein (60:40) 1/4" w. @ 60°c/A 653.5 chloritic joint @ 32°c/A	631.5 - 741.5 Massive Andesite (Poss. Basaltic?), mod. chloritic, green coloured, bleached aspect, fine grained, Trace Pyrite throughout, minor Py clots locally, mottled texture, it is almost dioritic in appearance and may be a thick andesitic flow. There is a faint foliation or schistosity throughout @ 40-46 °c/A. Not carbonatized.	Tr Py	626	100		643.8 644.4 645.4 646	100 Tr n/a n/a	
650								659.8 fracture/joint @ 41° c/A			646 656	100		635 636	100 WHOLE ROCK	

Hole No. B-D-1 | Project: BRISTOL OPTION | Page No: 12 Of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

ALTERATION: Carb | Silicif | Chloritiz | Sericitiz | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION	DESCRIPTIVE GEOLOGY	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
660	662.9 fracture @ 40° c/A				BQ			
	667.1 several Py cubes in ~ 1/2" w. section. Py up to 1/4" associated w/ joint or foliation? (Schistosity) @ 40° c/A		666	100		666.7	100	Tr
670	670.5 Py veinlet 1/10" @ 65° c/A	0.5% Py along joints & fract.				667.7		
	672.1 Py grains along fracture (very minor Py).		676	100				
	678.6 chloritic joint, calcite filling, @ 48° c/A							
680	683.3 qtz veinlet @ 20° c/A, chloritic joint @ 25° a/A		686	100				
690	689 qtz veinlet 1/8" w. several Py grains. 40° c/A							
	695.5 qtz veinlet 1/8" w., tr. Py., @ 65° c/A		696	100				
700	704 chloritic fracture 43° c/A		706	100				
710	712 qtz vein and veinlets 1/6 - 1/10" covering a 1 1/2" wide section, minor Py grains. 48° C/A.		716	100				
	717 qtz vein, minor calcite, 34° c/A							

Hole No. B-0-1 | Project: BRISTOL OPTION | Page No: 13 Of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carb	Silicif	Chloritiz	Sericit.	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	DESCRIPTIVE GEOLOGY	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Esti-mated
720			M					726.1 qtz veinlet, 1/10", @ 58°c/A 726.1 qtz veinlet 1/10", @ 67°c/A				726	100	BQ			
730			M					736.6 quartz calcite vein, glassy white, N.V.S., 6" w., 20°c/A				736	100				
740			M										100				
750	M/2		M					746 Joint @ 65°c/A 749.7-750.5 massive section 755 qtz vein 1" w., NVS, 55°c/A	741.5-765.9 Tuffaceous, fragmental unit, Poss. LAPILLI TUFF; green coloured, penetrative fabric (shear?) @ 52°c/A, WK-Mod Carb. (Calcite), mod. chloritic. few interlayered massive sections.			746	100				
760			M					761.5 diss. Py along fractures on an 8° w. section. 0.5% to 1% (max) Py. 763.4 milky qtz vein 1½" w., NVS, 68°/A 763.6 Py Fracture filling, ~1% on 4 inch w. zone				756	100				
770			M/2					769.2 qtz veinlet 69°c/A 1/8" w. 772.6 qtz vein 60°c/A 1/4" w. 779.6 2" w. section cont. irregular qtz veining (20%) and Py (5%) @ 35°/A	765.9-796 massive, medium green colour, Andesitic to Basaltic (?) not carb., WK-Mod. chlorit., minor qtz veinlets and pods, few joints and fractures. Minor Py veinlets.			766	100				
												776					

Hole No. B-0-1 | Project: BRISTOL OPTION | Page No: 14 Of 14

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

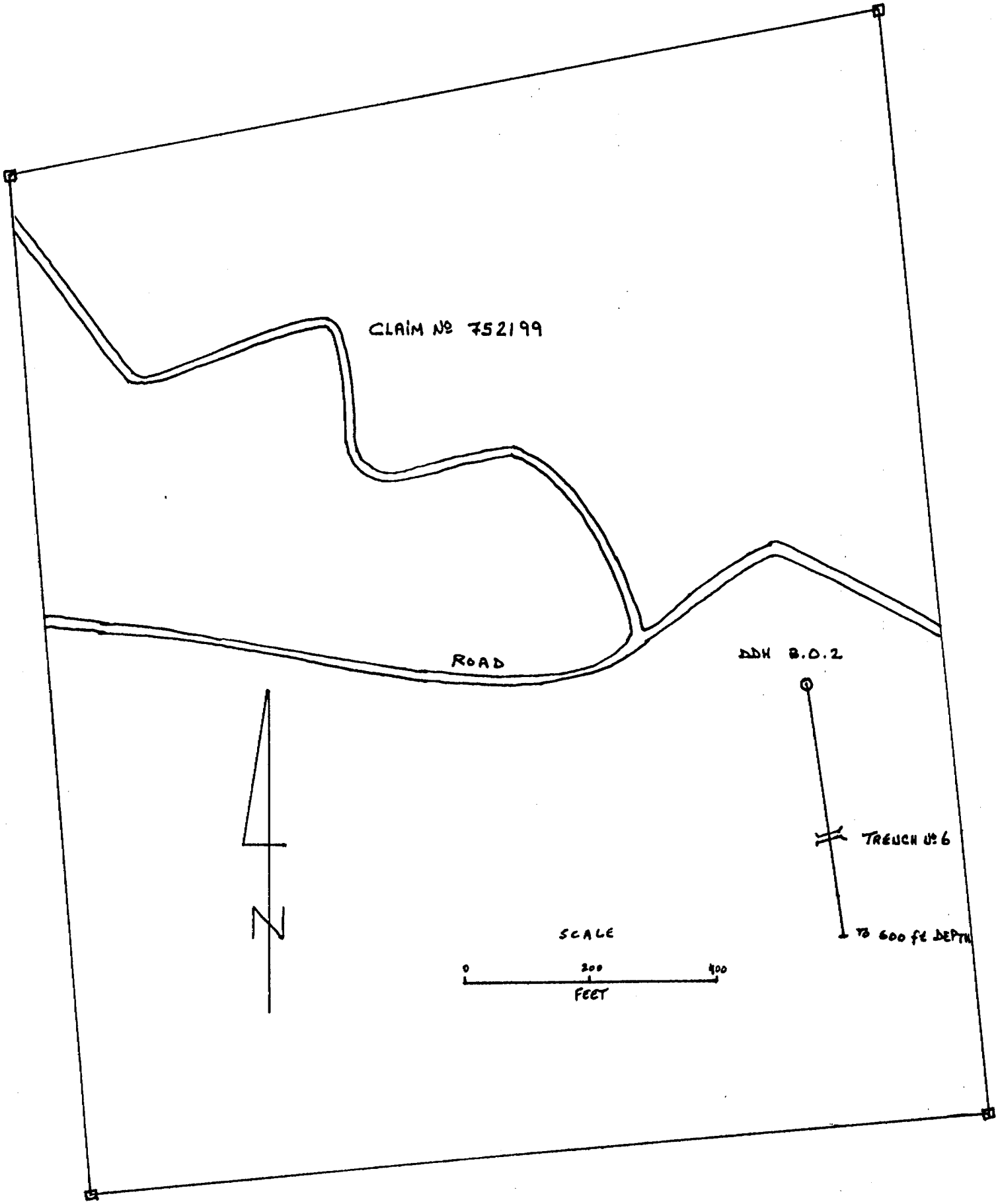
Coordinates: N. E. | Date Finished: | Scale:

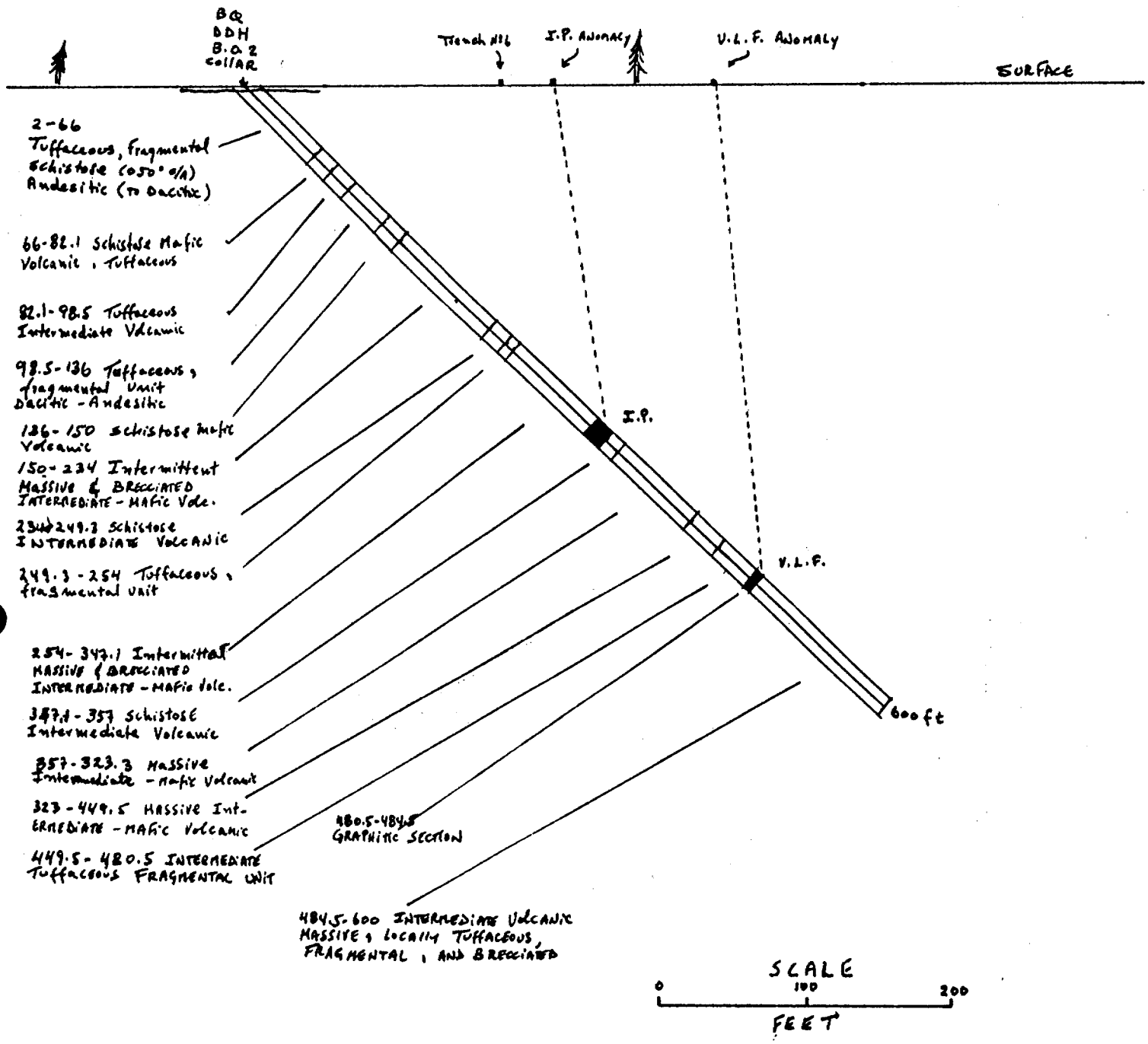
Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carb	Silicif	Chlorit	Sericit	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated
780			E / W				–	786 chlorite joint @ 40°c/A 788.8 quartz vein 1" w. 55°c/A 790.1 qtz Py veinlet 1/16" 64°c/A			786	100	BQ			
790							–					100				
			W				Δ	797.7 Py grains 1/8" assoc. S joint 798.2 Qtz vein @ 70°c/A 1/3" w.	796-800 LAPILLI Tuff ?, Dacitic (Cross. And.) WK chlorit., Not carb., LT green coloured END OF HOLE		800	100				
800																

INCLINATION TESTS

FOOTAGE	INCLINATION	CORRECTED
400 ft	50°	41°
800 ft	48°	39°


CLAIM № 752199
ROAD
DDH B.O.2
TRENCH № 6
TO 600 ft DEPTH
N
SCALE
0
200
400
FEET


BQ
DDH
B.Q 2
COLLAR
Trench #16
I.P. ANOMALY
V.L.F. ANOMALY
SURFACE
2-66
Tuffaceous, fragmental
schistose (050° 0/A)
Andesitic (to dacitic)
66-82.1 Schistose Mafic
Volcanic, Tuffaceous
82.1-98.5 Tuffaceous
Intermediate Volcanic
98.5-136 Tuffaceous,
fragmental unit
Dacitic - Andesitic
136-150 schistose mafic
Volcanic
150-234 Intermittent
MASSIVE & BRECCIATED
INTERMEDIATE - MAFIC Volc.
234-249.3 schistose
INTERMEDIATE VOLCANIC
249.3-254 Tuffaceous,
fragmental unit
254-347.1 Intermittent
MASSIVE & BRECCIATED
INTERMEDIATE - MAFIC Volc.
347.1-357 Schistose
Intermediate Volcanic
357-323.3 Massive
Intermediate - mafic Volcanic
323-449.5 MASSIVE INT-
ERMEDIATE - MAFIC VOLCANIC
449.5-480.5 INTERMEDIATE
TUFFACEOUS FRAGMENTAL UNIT
480.5-484.5
GRAPHITIC SECTION
484.5-600 INTERMEDIATE VOLCANIC
MASSIVE, LOCALLY TUFFACEOUS,
FRAGMENTAL, AND BRECCIATED
I.P.
V.L.F.
600 ft
SCALE
0
100
200
FEET

Hole No. B.O.2 | Project: BRISTOL OPTION | Page No: 1 Of 10

Casing Collar Elev.: | Ground Elev.: | Date Started: Nov. 3 . 1985 | Ref. to Claim Corner: 720 ft on 337°Az From C.P.#2 claim #2 752199

Coordinates: L 60 W 16+50N (190 ft due W) | Date Finished: Nov. 6 . 1985 | Scale: 1" = 10 ft

Inclination: 45° | Bearing: 173 Az | Total Depth: 600ft | Logged By: V. PALMA

COMMENTS: a) qtz veining observed in Trench #6 NOT INTERSECTED AT DEPTH
b) I.P. ANOMALY INTERSECTED AT 337 - 347
c) VLF ANOMALY INTERSECTED AT 480 - 484.5

AVE CORE REC'Y/HOLE 99

SECTION	ALTERATION: Carbonatization	Silicification	Chloritization	Sericitization	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE	GENERAL	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
0									overburden		2					
						q		3-7 wall fractured, shattered (core lost)	2-66 Tuffaceous & fragmental UNIT (Clagilli Tuff?) clasts are locally brecciated, are ovoidal, light green coloured, not chloritic, and massive. The matrix is schistose (50°c/A), crenulated, green coloured and mod. chloritic. Several joints parallel to the schistosity. Many chlorite wisps. Compositionally this unit is Probably an andesite although it resembles a dacite in places.				BQ			
								8.2 qtz vein ½" NVS 57°c/A				80				
10								13.3 glassy white qtz vein ½" N06 43°c/A								
						q		15 Rustiness on fractures						14		
								15.7 quartz pod ¼ x 1"			17				100	Tr
								22.2 schistosity @ 55°c/A						17		
20															100	Tr
						py		28 Tr py		Tr py		93		21		
								26.6 qtz vein minor Cal. ¼" 56°c/A			27					
										Tr py						
30						py		30.5 Tr. py				98				
											37					
40								44.5 - 56 (av) Sub parallel quartz-calcite (minor) veinlets @ 55°c/A				100				
											47					
														49		
															100	Tr
50												100		51		
								56.5 qtz-calcite vein 1" glassy w. NVS 52°c/A			57					
								56.5 - 58.5 Massive								

Hole No. B.O. 2 | Project: BRISTOL OPTION | Page No: 2 Of 10

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carbonatization	Silicification	Chloritization	Sericitization	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
60	M		W					58.5-63 finely layered, mod. carb., fn. gr., tuffaceous, qtz veinlets @ 50°c/A 63-66 many sub-parallel qtz veinlets.			67	100	BQ	65			
70	W		M			Py		66 - 82.1 Schistose Mafic Volcanic ~~Bleached, an Andesitic Volc. Tuffaceous~~ aspect, fine grained, Weakly Carbonatized (calcite), moderately chloritic, schistose (50°c/A), grey coloured, few qtz veins & veinlets, trace diss. Po, 1-2% Py in ½ ft section. 68.6 ½ ft w. section containing 1-2% Py diss py. along schist. (51°c/A). few qtz veinlets @ 48°c/A 73.9 Tr. Py assoc. w qtz veinlet 51°c/A 82.1 qtz vein ⅓" minor Calcite 52°c/A	1-2% Py	77	99		68 69 72	100 100 100	Tr Tr Tr
80												100				
90	W		M			Py Po		82.1 - 98.5 TUFFACEOUS INTERMEDIATE VOLCANIC. Lt green-grey colour fine gr., schistose (58°c/A) moderately chloritic, weakly carbonatized (calcite), several Parallel quartz-Calcite veinlets, LOCALLY Tr - 0.5% Py Po. schistocity @ 52°c/A, v. minor qtz (± calcite) veinlets. No other structures. 85.8 - 88 Tr. - 0.5% Py Po in a darker grey coloured section of core 90.5-91 several sub-parallel quartz veinlets, minor Calcite, 50°c/A	Tr-0.5% Py Po	87 97	100		82.8 85.8 88 91 94 97	100 100 100 100 100	Tr Tr Tr Tr Tr
100	W		M			Q Q Q		98.5 - 136 TUFFACEOUS, FRAGMENTAL Lapilli ~~Tuff Unit~~, dacitic to andesitic composition, locally brecciated, seems to resemble a lapilli tuff or flow breccia, locally massive. Frags. are broken ellipsoidal clasts ¼-1 inch lt green. Matrix is Hk chloritic, Weakly Carb. (calcite) Trace Py Po 102.1 qtz veinlet 1/10" 49°c/A 106.6 quartz pod ~ ¼ x ½" 111.0 quartz veinlet 1/10" 45°c/A 115 4" w. section, looks brecciated, green-lt green coloured, broken up cemented by green chloritic material. 115.5-116.8 Brecciated, Tr. Pyrite		107 117	100 100				
110																

Hole No. B.O.2 | Project: BRISTOL OPTION | Page No: 3 Of 10

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

COMMENTS:

AVE CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION	ALTERATION: Carbonatization	Silicification	Chloritization	Sericitization	FRACTURING	MINERAL	GEOLOGY	Descriptive	General	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated
120	W		M			q		117-122 massive, few irregular chloritic wisps associated w Tr Py, minor quartz veinlet material, Tr. Py.				100	BQ	124		
								122.4 Smeared Po along joint @ 67°C/A			127			127	100	Tr
130								126.8 q/z veinlet 1/10 48°C/A						130	100	Tr
								131.1 Joint @ 55°C/A				100				
								135.8 Joint (calcite) @ 35°C/A						133	100	Tr
											137					
140	W		S/M			q		138 chloritic joint 38°C/A	136-150 SCHISTOSE MAFIC VOLCANIC fine grained, dark grey w green cast, strongly to mod. chloritic, weakly Carbonatized, schistose (35°C/A), minor quartz veinlets, chloritic wisps.							
								140.2 quartz veinlet 1/8" glassy white Tr. Py, 37°C/A				100				
								144 quartz veinlet minor Calcite 42°C/A								
						Py		147.8-148.9 1.1 ft section of Brecciated rock, chloritic matrix, Tr. Py		TrPy	147					
150						q		150 quartz vein 1/4" NVS 33°C/A	150-234 MASSIVE AND BRECCIATED INT. - MAFIC VOLCANICS							
								151.6 podiform irregular q/z vein 1/4-1" NVS 40°C/A	Intermittent sections, the brecciated sections are concentrated preferentially between 158 and 190. The breccia sections consist of broken rock cemented by quartz chlorite matrix, Not Carb, Minor Py. The massive sections are fm-grained, green Coloured, mod. chloritic, not carb., Trace Py Po Contain minor q/z veining.			100				
								157.7 Contact @ 55° C/A sharp.			157					
160			M			q	Δ									
						q	Δ	Brecciated sections (quartz chlorite matrix, NVS, Not Carb, locally (minor) Tr Py). Sections @ 158.6 3" ea.				100				
								161 - 163.6			167					
170						q	Δ	165.1 - 166.5								
							Δ	169.5 - 169.8				100				
								170.1 - 172								
								172.5 - 174.6								
								178 - 179.8								
						q	Δ	182 - 183.2			177					
								183 - 183.8								
								188.6 - 189.8								

Hole No. B.O. 2 | Project: BRISTOL OPTION | Page No: 4 Of 10

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

COMMENTS:

AVE CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION	ALTERATION: Carbonatization	ALTERATION: Silicification	ALTERATION: Chloritization	ALTERATION: Sericitization	FRACTURING	MINERAL	GEOLOGY	Descriptive	General	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
180						q	0 A /	181.7 qtz vein ½" w. 56° c/A				100	BQ			
							/				187					
						q	A /	188.4 qtz vein 2" w. 38° c/A								
190						q	0	191.2 - 193.3 fine grained, granular, dk green, mafic, chloritic. DIABASIC				100				
							A /									
							0	193.3 - 194.3 Brecciated								
							/	195.8 qtz vein ⅛" 22° c/A			197					
							0	199.7 3" Brecciated								
200							A /					100				
		M						201.7 - 204.2 Brecciated								
							A	205.6 - 206.1 Brecciated			207					
							/									
210							0									
							A /	213.6 - 214.5 Brecciated, minor Py on fracture.				100		213.6	100	Tr
								215 - 215.7 Well fractured, Shattered						214.5		
							A	216.4 - 217 Brecciated			217					
							/	219.8 - 220.5 Brecciated								
220							0					100				
						q	/	224 qtz veinlet ⅛" 36° c/A						223.5		
											227				100	Tr
						q	/	226 qtz veinlet ¼" 36° c/A						227.5		
230							0					100				
							/	234.4 Contact @ 46° c/A sharp								
	W	M							234 - 249.3 schistose Intermediate Volcanic 60° c/A, grey - green colour, Tuffaceous, schistose		237						

Hole No. B.O.2 | Project: BRISTOL OPTION | Page No: 5 Of 10

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

COMMENTS:

AVE CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION	ALTERATION: Carbonatization	ALTERATION: Silicification	ALTERATION: chloritization	ALTERATION: Sericitization	FRACTURING	MINERAL	GEOLOGY	Descriptive	General	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
240	W		M					239.9-243 massive, dark grey, fn.gr., clastic, sedimentary?, minor diss Po, Tr. Py. contacts sharp @ 51°C/A. Schistosity elsewhere @ 57°C/A	...Cont... Weakly carbonatized (calcite), moderately chloritic, few qtz veinlets, minor smeared Py in joints. One dark grey massive unit @ 240-243.		247	100	BQ	241 243 247	100 100	Tr Tr
250			W			Po		249.3-254 Breccia 0.5% Po in matrix	249.3-254 TUFFACEOUS, FRAGMENTAL LAPILLI TUFF fine grained, fragmental, tuffaceous, ellipsoidal clasts 1/8-1", many are broken (Brecciated) and cemented by chlorite.	0.5% Po		100		249.3 251 254	100 100	Tr Tr
260		W/M				Py		257.3-261 Breccia Tr-0.5% Po in matrix 258.7 qtz vein 1/10-1/4" ; irregular 52°C/A 263-264 Breccia Tr-0.5% Po in matrix 267-274 Minor smeared Py in few joints Tr-0.5%, locally diss. Po, chlorite veinlets. 274-281 Breccia Tr Py in Joint 283-284 Breccia 295-298.5 Breccia	254-347.1 INTERMITTENT MASSIVE AND BRECCIATED INT-MAFIC VOLCANIC. Massive sections are fn.gr., Med-dk green & grey colour, weakly to mod. chloritic, has v. minor qtz veinlets, locally there are few irregular podiform quartz-calcite veins. Brecciated sections are from one to ten ft long. Bleached light to medium green fragments cemented by chloritic matrix, size range from 1/8-1", 20% matrix 80% fragments. locally tr.-0.5% Po Py in matrix, smeared Py in few fractures. V. Minor Calcite vein material.	0.5% Po Tr Py	257 267 277 287 297	100 100 100 100		257.3 260.3 274.6 276.6 279.6 295	100 100 100 100	Tr Tr Tr Tr

Hole No. B.O.2 | Project: BRISTOL OPTION | Page No: 6 Of 10

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carbonatization	Silicification	Chloritization	Sericitization	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	DESCRIPTIVE GEOLOGY: Descriptive	DESCRIPTIVE GEOLOGY: General	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated
300			W/M			Py	Δ/A	AVE CORE REC'Y/HOLE	299.8-301.5 Breccia Py in Joint		TrPy			BQ			
									303.3-303.7 Breccia			307	100				
310									310-312 Several quartz-calcite veinlets, irregular, barren, locally podiform				100				
												317					
320						Qz			320.6 qtz vein 1/16" @ 60°C/A. 323.5-326.2 Breccia				100				
												327					
330							Δ/Δ/Δ		332.1-336.3 Breccia		Tr		100		332		
									335.5 quartz vein minor Calcite 58°C/A						335	100	Tr
												337			337	100	Tr
340						0.5 To Tr Po			337-347.1 I.P. Anomaly 0.5% Po, Tr. Py in fractures. Brecciated also qtz-calcite vein material Not Carb.		0.5% To Tr		100		340	100	Tr
															342		
															345	100	Tr
												347					
350			W/M						No comment	347.1-357 SCHISTOSE INTERMEDIATE VOLCANIC Tuffaceous, greenish grey; Weakly-M chloritic, schistose 50°C/A, smeared Po along fractures. fine grained.			100				
												357					
										357-423.3 MASSIVE INT-MAFIC							

Hole No. B.O. 2 | Project: BRISTOL OPTION | Page No: 7 Of 10

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION | ALTERATION (Carbonatization, Silicification, Chloritization, Sericitization) | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

Descriptive

362 irregular epidote veinlets

366.5 Py in fracture @ 46°C/A

371.7 qtz vein Trace Py Po

376.5-377.7 chloritic pods, <20% ab. about 1/8" in diameter or less.

377.7-378.4 feldspar porphyritic section. fd porphyries are white to buff, sub-rounded, about 1/8" in diameter & 20% abundant.

379.5-380.4 feldspar porphyritic

380.4-382.6 chloritic pods <20% ab.

384.5 epidote veinlet 53°C/A

394-398 feldspar porphyritic.

420.6 qtz vein 3/4" glassy white 35°C/A

General

Volcanic fine grained, grey-green, W-M chlorite, locally fd porphyritic, minor sections w chloritic pods, minor qtz veining, minor epidote veinlets, Trace Py Po diss., smeared Po in fractures

Section: 360, 370, 380, 390, 400, 410

Alteration (Chloritization): W/M

Mineral: Py, g

% Sulphides: Tr Py

Drilling Interval	% Core Recovered	Core Size
357–367	100	BQ
367–377	100	
377–387	100	
387–397	100	
397–407	100	
407–417	100	

Sample Interval | % Rec'y Samp. Int. | Estimated

Hole No. B-0-2 | Project: BRISTOL OPTION | Page No: 8 Of 10

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carbonatization	Silicification	Chloritization	Sericitization	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated
420								421 2" wide shear zone qtz, chlorite, NVS, min. calcite.					BQ			
430		W/M					A	423.3 Joint/fracture, calcite, smeared Py, 82°/A 423.6 4" Breccia unit sharp contacts @ 60°C/A. 428-428.5 ½' Tuffaceous unit 428.5-444 massive, Andesitic - Basaltic 444-449 massive, chlorite wisps, Dacite to Andesitic.	423-449.5 MASSIVE INTERMEDIATE - MAFIC VOLCANIC, V. fn. grained, Lt-medium grey-green, W mod. chlorit., minor Py along joints, W-M chlorit., minor quartz veining. V. minor calcite.		427 437 447	100 100 100		449		
450		W/M				q		450.6 qtz veinlet 50°C/A							100	Tr
460		W/M				q q q		461.5 qtz veinlet ⅛" @ 60°C/A 461.5-464 Moderately fractured 465.6 qtz veinlet ⅛-¼ @ 53°C/A	449.5-480.5 INTERMEDIATE LAPILLI TUFF, TUFFACEOUS, FRAGMENTAL possibly lapilli tuff (?) clast size ⅛-1", ovoidal, many broken (brecciated ?) chloritic matrix, Weakly-Mod. chlorit., WK Carb. (calcite), Preferred orientation of clasts @ 55°C/A (= schistosity (?)). Tr. Py, several Joints w Smeared Py.		454 457 467	100 100 100		454 459	100 100	Tr Tr
470						q Py		469 qtz-calcite fracture filling @ 5°C/A, Several Py grains ~0.5% Py over 3 inches. 471.5 qtz calcite fracture filling @ 5°C/A Trace Py. Possibly Minor Carbonate(s).		Tr Py	477	100		477 480	100	Tr

Hole No. B·O·2 | Project: BRISTOL OPTION | Page No: 9 Of 10

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION	ALTERATION: Carbonatization	Silicification	Chloritization	Sericitization	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y/HOLE	% Sulphides	Drilling Interval	% Core Recovered	Core Size	Sample Interval	% Rec'y Samp. Int.	Estimated Au
480								DESCRIPTIVE GEOLOGY: Descriptive	General					480		
	W				gf			482.6 calcite-qtz (70:30) vein 3"w 40°c/A 480.5-484.5 Graphitic, sheared. VLF Anomaly	480.5-484.5 QUARTZ VEINED - SHEARED - GRAPHITIC SECTION Black Coloured, Weakly Carb (Calcite) (chlorite ?), Sheared.				BQ	482 482.5 484.5	100 100	Tr Tr
490	W		M		q			486 qtz vein ¼"-½" NVS 60°c/A 495-496 Tuffaceous, fragmental 497.3 qtz veinlet 0.5% Py 52°c/A ⅛"w. 506-507.1 Tuffaceous, fragmental, 65°c/A 512-516 moderately fractured 512.8 qtz vein, <0.5% Py, ¼"w., 20°c/A 519 podiform quartz calcite vein 62°c/A 521.5 chloritic fracture 22°c/A 527.6 qtz veinlet ⅛" @ 64°c/A 532.5 Py veinlet and diss. Py in a 2"w. area, veinlet 1/16 @ 49°c/A 536-536.7 few diss. Py grains Trace to 0.5%	484.5-600 MAFIC VOLCANIC MASSIVE, LOCALLY TUFFACEOUS FRAGMENTAL AND BRECCIATED. grey-green coloured, moderately chloritic throughout, weakly carb. (calcite) from 484-491, v. minor qtz veinlets, generally massive, few fragmental, tuffaceous sections w structure @ 65°c/A. few irregular epidote veinlets. NOTE: the massive sections may possibly be a fine grained mafic intrusive on account of their granular (fine grained) nature.	TrPy TrPy	487 497 507 517 527 537	100 100 100 100		484.5 532 533 536 537	100 100	Tr Tr

Hole No. | Project: | Page No: 10 Of 10

Casing Collar Elev.: | Ground Elev.: | Date Started: | Ref. to Claim Corner:

Coordinates: N. E. | Date Finished: | Scale:

Inclination: | Bearing: | Total Depth: | Logged By:

SECTION | ALTERATION: Carbonate, Silicification, Chloritization, Sericitization | FRACTURING | MINERAL | GEOLOGY | COMMENTS: | AVE CORE REC'Y/HOLE | % Sulphides | Drilling Interval | % Core Recovered | Core Size | Sample Interval | % Rec'y Samp. Int. | Estimated

DESCRIPTIVE GEOLOGY

Descriptive | General

540

553-558 fine grained, massive, mafic, no visible structures

558-565.5 fine grained dacitic - Andesitic, chlorite wisps minor irregular podiform quartz vein material.

558 quartz vein 1/8-1/4" W, 35°c/A

565.5-571.6 fine grained, massive, mafic, no visible structures other than one qtz vein 1/4" W @ 63° c/A

571.6-575 Brecciated Dacitic - Andesitic.

575-588 fine grained, massive, mafic,

588-590 Breccia matrix consists of chlorite and quartz, clasts are c 1/8 - 1/2". chlorite veinlets in clasts. frags (clasts) are subrounded - sub-angular. few quartz pods. TR. Py

INCLINATION TESTS

FOOTAGE	INCLINATION	CORRECTED
300 ft	51.5°	43
600 ft	52	43.5

Drilling Interval: 547, 557, 567, 577, 587, 597, 600

% Core Recovered: 100, 100, 100, 100, 100, 100

Core Size: BQ

Sample Interval: 588, 590.1, 593.1, 594.6

% Rec'y Samp. Int.: 100, 100

Estimated: Tr, Tr

% Sulphides: Tr Py

APPENDIX 2

DRILL HOLE B.O. 1. LOG SUMMARY

DRILL DEPTH (feet)		GEOLOGY
0	-11.5	Overburden
11.5	-29.5	Massive andesitic volcanic, locally bleached, minor lapilli tuff, minor quartz veins and veinlets, N.V.S.
29.5	-38	Lapilli tuff, andesitic composition, minor quartz and calcite veinlets.
38	-76.5	Dacite to andesite, massive, locally schistose, minor quartz veining (barren) trace pyrite.
76.5	-140	Andesite, minor quartz calcite veinllets, locally trace to 0.5% disseminated pyrite and pyrrhotite.
140	-158.9	Tuffaceous andesite , multiple parallel quartz-calcite veinlets, trace pyrite.
158.9	-161.2	Andesite, massive, N.V.S.
161.2	-172.8	Graphitic unit, possibly shaley, 1.1 ft. quartz vein with disseminated pyrite on footwall (1%). This unit is correlated with trench No. 4.
172.8	-245	Andesite, massive few quartz veins and veinlets (+calcite), trace pyrite, minor brecciated sections.

B.O.1. (cont)

DRILL DEPTH (feet)	GEOLOGY
553 -563	Lapilli tuff, injected with several quartz ($\pm$ calcite) veinlets. Dacitic to andesitic in composition.
563 -579	Tuffaceous, andesitic, minor sheared graphitic horizon is correlated to V.L.F. anomaly.
579 -606.2	Massive andesitic to basaltic volcanic, trace pyrite.
606.2 -631.5	Lapilli tuff, brecciated, trace to 0.5% pyrite locally.
631.5 -741.5	Massive andesitic to basaltic volcanic, trace pyrite.
741.5 -765.9	Lapilli tuff, minor massive sections.
765.9 -796	Massive andesitic to basaltic volcanic, minor quartz veinlets, minor pyrite.
796 -800	Lapilli tuff, dacitic to andesitic in composition.
	END OF HOLE

B.0.1. (cont)

DRILL DEPTH (feet)	GEOLOGY
553 -563	Lapilli tuff, injected with several quartz ($\pm$ calcite) veinlets. Dacitic to andesitic in composition.
563 -579	Tuffaceous, andesitic, minor sheared graphitic horizon is correlated to V.L.F. anomaly.
579 -606.2	Massive andesitic to basaltic volcanic, trace pyrite.
606.2 -631.5	Lapilli tuff, brecciated, trace to 0.5% pyrite locally.
631.5 -741.5	Massive andesitic to basaltic volcanic, trace pyrite.
741.5 -765.9	Lapilli tuff, minor massive sections.
765.9 -796	Massive andesitic to basaltic volcanic, minor quartz veinlets, minor pyrite.
796 -800	Lapilli tuff, dacitic to andesitic in composition.
	END OF HOLE

DRILL HOLE B.0.2. LOG SUMMARY

DRILL DEPTH (feet)		GEOLOGY
0	-2	Overburden
2	-66	Lapilli tuff, locally brecciated, dacitic to andesitic composition, locally trace pyrite.
66	-82.1	Schistose basaltic to andesitic volcanic, few quartz veins and veinlets, minor pyrite, trace pyrrhotite.
82.1	-98.5	Tuffaceous intermediate (dacitic to andesitic) volcanic, several parallel quartz-calcite veinlets, locally trace to 0.5% pyrite plus pyrrhotite.
98.5	-136	Lapilli tuff, dacitic to andesitic composition, locally brecciated, trace pyrite and pyrrhotite.
136	-150	Schistose mafic volcanic, minor quartz veinlets, locally trace pyrite.
150	-234	Intermediate to mafic volcanic, intermittent massive and brecciated sections, minor quartz veining, trace pyrite and pyrrhotite.
234	-249.3	Intermediate (dacite to andesitic) volcanic, tuffaceous, minor sheared pyrite in joints.

B.0.2. (cont)

DRILL DEPTH (feet)	GEOLOGY
249.3 -254	Brecciated lapilli tuff 0.5% pyrrhotite in matrix
254 -347.1	Intermediate to mafic volcanic, intermittent massive and brecciated sections minor quartz veinlets, locally trace pyrite and 0.5% pyrrhotite (at 337 to 347.1 ft.) correlating with I.P. anomaly.
347.1 -357	Intermediate volcanic, tuffaceous, sheared pyrrhotite along fractures.
357 -423.3	Massive intermediate to mafic volcanic, minor epidote veinlets, minor quartz veining, trace pyrite and pyrrhotite
423.3 -449.5	Massive intermediate to mafic volcanic, minor pyrite along joints, minor quartz veining
449.5 -480.5	Lapilli tuff, intermediate (dacite to andesitic) composition, trace pyrite some smeared in joints.
408.5 -484.5	Sheared graphitic section, correlates with V.L.F. anomaly.
484.5 -600	Mafic volcanic, locally massive, locally tuffaceous, locally resemble a fine grained intrusive. Trace pyrite.

Telephone (705) 235-3486

Norex Drilling Limited

P.O. Box 88 - Porcupine, Ontario P0N 1C0

(INVOICE)

RECEIVED NOV 1 4 1985

UTAH MINES LTD.
October 29 to November 5, 1985

HOLE # BO-1		
800' x 13.50		10,800.00
Left in hole		
2 x 10' BW Casing x 82.55	165.10	165.10
1 BW Casing Shoe x 125.00	125.00	125.00
HOLE # BO-2		
600' x 13.50		8,100.00
Left in hole		
2 x 2' BW Casing x 26.80	53.60	53.60
1 BW Casing Shoe x 125.00	125.00	25.00
	468.70	19,368.70
	x.15	
	70.30	70.30
	TOTAL:	$19,439.00

THANK YOU.

Approved: F. W. Dawsone
Project 1144

Authority To Pay PO#

Date Product/Service Rec'd

Receipt Verified By

Amount $19,439.00

Charge Code 1144 433

W. A. Mitchell

Approval No P.O.

Accounting Approval

Rec. Rpt. Agree

Ext OK

Use Tax ☐ Yes ☐ No

P.O., Contract, Lease Agree

Overall Approval

Date

46730 **UTAH MINES LTD.**
1050 WEST PENDER STREET • VANCOUVER, B.C. V6E 3S7

JOB NO.	VENDOR NO.	INVOICE NO.	INVOICE DATE MO.	DAY	YEAR	INVOICE AMOUNT	DISCOUNT	NET AMOUNT
64[illegible]	047147	STMT 1	11	05	85	19,439.00	.00	19,439.00
			TOTALS			19,439.00	.00	19,439.00

INQUIRIES: UTAH MINES LTD EXPLORATION DEPT
25 ADELAIDE ST EAST #900 TORONTO, ONTARIO M5C 1Y2 (416) 368-3864

046730 46730

UTAH MINES LTD.
1050 WEST PENDER STREET • VANCOUVER, B.C. V6E 3S7

HASTINGS & GRANVILLE BRANCH
CANADIAN IMPERIAL BANK OF COMMERCE
VANCOUVER, B.C. CANADA

10/10

VENDOR NO.	DATE OF CHECK	DOLLARS CENTS
047147	11-19-85	$ ***19,439.00

PAY

TO THE ORDER OF

NOREX DRILLING LIMITED
P O BOX 88
PORCUPINE, ONTARIO
CANADA

PONICO

UTAH MINES LTD.
GENERAL ACCOUNT

NOT NEGOTIABLE

⑈000 10⑆010⑈92⑆03117⑈

Ministry of Natural Resources
Ontario

Report of Work

#459/85

BRISTOL TWP.

Mining A

42A05NE8480 28 BRISTOL

900

Name and Postal Address of Recorded Holder

~~UTAH MINES LTD.~~ ROLAND POIRIER

33 Cedar St. South

~~5 BIRCH ST. NORTH~~, TIMMINS, ONTARIO P4N 2G5

~~T 793~~ M-18592.

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed: 1400

for Performance of the following work. (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work.
- ☐ Compressed Air, other Power driven or mechanical equip.
- ☐ Power Stripping
- ☒ Diamond or other Core drilling
- ☐ Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
P	724587	37	P	740867	37		752196	37
	724588	37		740868	37		752197	37
	724589	37		740869	37		752198	37
	724590	37		740870	37		752199	37
	724591	37		740871	37		752200	37
	740864	37		740872	37		752201	37
	740865	37		740873	37		752202	37
	740866	37		752195	37		752203	37

All the work was performed on Mining Claim(s): 752198 & 752199 (plus attached)

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

TWO HOLES TOTALLING 1400', BOTH HOLES ARE BQ-SIZE CORE

HOLE B.O.-1, BEARING 177°, DIP -45°, DRILLED OCT. 29 - NOV. 1, 1985.

HOLE B.O.-2, BEARING 173°, DIP -45°, DRILLED NOV. 3 - NOV. 6, 1985.

CONTRACTOR : NOREX DRILLING LTD., P.O. BOX 88 - PORCUPINE, ON. P0N 1C0

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES RESEARCH OFFICE
JAN 16 1986
RECEIVED

PORCUPINE MINING DIVISION
RECEIVED
DEC 10 1985

RECORDED
DEC 10 1985

Date of Report	Recorded Holder or Agent (Signature)
DEC. 10, 1985	J. W. Newsome

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

J. W. NEWSOME, % UTAH MINES LTD., 5 BIRCH ST. N., TIMMINS, ON. P4N6C8

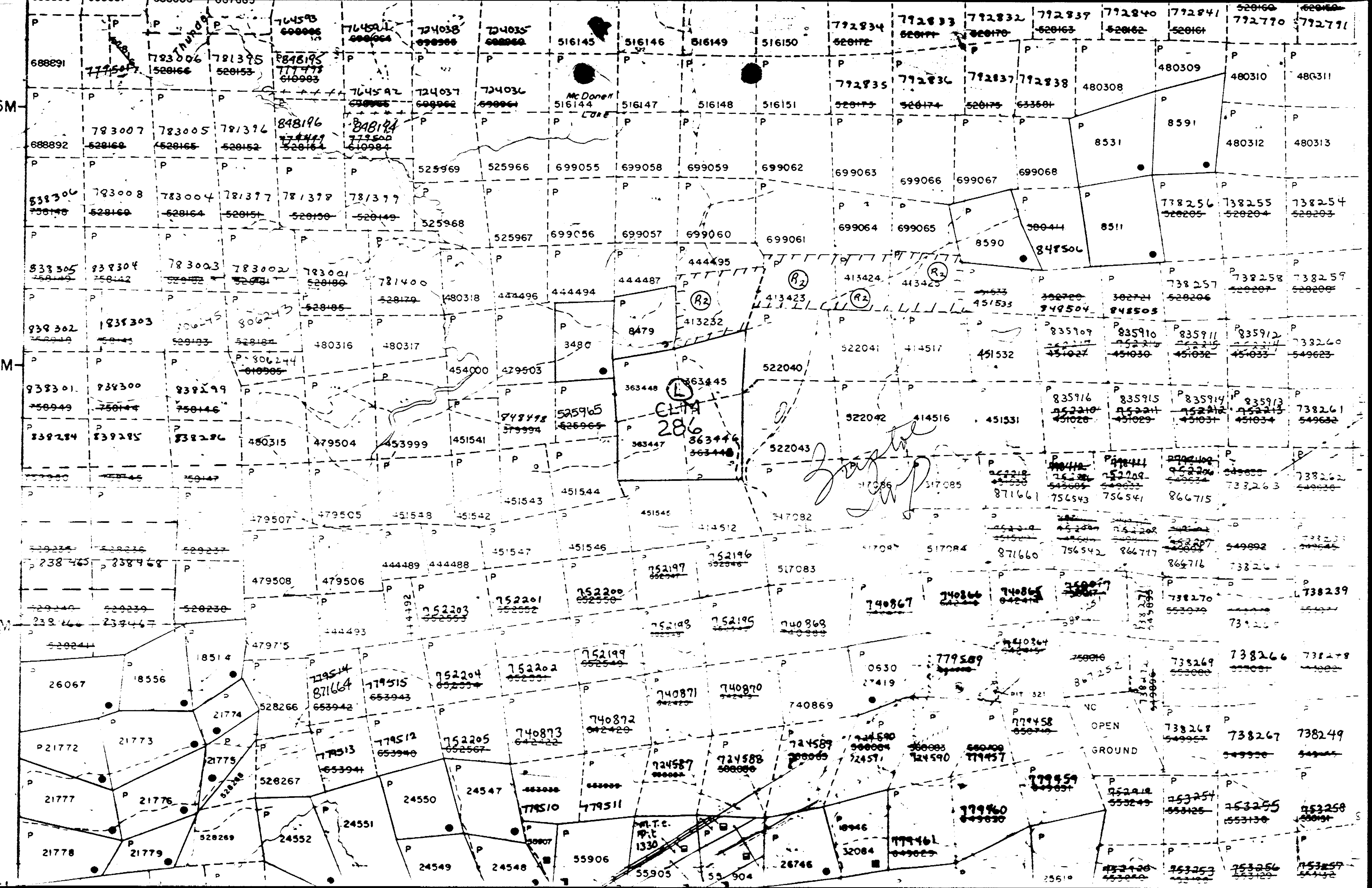
Date Certified	Certified by (Signature)
DEC. 10, 1985	J. W. Newsome

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. **Note:** Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) **in duplicate**
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil

768 (81/3)

	MINING CLAIM	WORK DAYS CR.
P -	752204	36
"	752205	36
"	779457	36
"	779458	36
"	779459	36
"	779460	36
"	779461	36
"	779509	36
"	779510	36
"	779511	36
"	779512	36
"	779513	36
"	779515	36
"	871664	44


McDonell Lake
CLTA
286
OPEN
GROUND
M.T.C.
Pit
1330
688891
688892
516145
516146
516149
516150
516144
516147
516148
516151
525969
525966
699055
699058
699059
699062
699063
699066
699067
699068
480308
480309
480310
480311
480312
480313
8531
8591
8511
8590
525968
525967
699056
699057
699060
699061
699064
699065
444495
444494
444487
444496
413424
413423
413232
480318
480316
480317
3480
8479
522041
414517
451532
522040
454000
479503
363448
363445
363447
363446
522042
414516
451531
480315
479504
453999
451541
522043
451544
451543
479507
479505
451548
451542
451545
414512
517082
451547
451546
517084
517083
444489
444488
479508
479506
444493
740867
740869
738239
738266
738268
738267
738249
26067
18556
18514
21774
21772
21773
21775
21777
21776
21778
21779
528266
528267
528269
24550
24547
24551
24552
24549
24548
55906
55905
26746
32084
0630
27419

MAP SYMBOLOGY

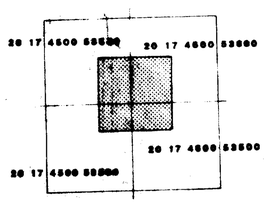
Aerial Cableway
Buildings
Chimney
Cliff, Pit, Pile
Contours
Culvert
Falls
Fence, Hedge, Wall
Feature Outline
Flooded Land
Logs
Marsh or Swamp
Mast
Mine Head Frame
Outcrop
Pipeline
Railroad
Road
Rapids
Reservoir
River, Stream, Canal
Rock
Spot Elevation
Tower
Transmission Line
Tunnel
Utility Poles
Wharf, Dock, Pier
Wooded Area

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
			S.R.O	164584

KEY PLAN
For O.B.M. Map



not to scale

GODFREY TWP. G-

CARSCALLEN TWP. G-

OGDEN TWP. G-

THORNELOE TWP. G-

23M 22M 21M 20M 19M
5M 4M 3M 2M 1M

LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES ETC.
LOTS, MINING CLAIMS, PARCELS ETC.
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER IN COUNCIL	OC
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8, 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

Metres 1000 0 1000
Chains 10 0 10 20 30 40 50 60 70
Feet 1000 0 1000 2000 3000 4000 5000

SCALE 1:20 000

TOWNSHIP
BRISTOL

M N R ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario Ministry of Natural Resources — Land Management Branch

Date: JUNE, 1982
Number: G-3998