

APPENDIX I1967 DIAMOND DRILLINGSouth  
ZoneM - 1*Relogged by Amarc.*

Latitude 44,535'N Departure 24,035'E Elevation 4,300'

Bearing 60° Dip -60°

*Weak mag high  
moderate IP*FootageGeology

	0-45		Casing
	45-75		Porphyritic andesite
45-120 = 0.19 70-80 = .24	75-90	↑ 0.13% ↓	Diorite
	90-115		Porphyritic andesite
115-185	Diorite		
185-220	Porphyritic andesite		
220-250	Diorite		
250-340	Porphyritic andesite		
340-380	Diorite		
380-442	Porphyritic andesite		

Assays

45-120	0.19	0.20% Copper
120-442		0.11% "

South  
ZoneM - 2*Strong IP Edge of strong mag high.*

Latitude 43,995'N Departure 24,270'E Elevation 4,300'

Dip -90°

FootageGeology

	0-290		Porphyritic andesite	
0-300 = 0.29% 350-427 = .12	290-330	↑	Diorite <i>augite andesite.</i>	80-90 = 0.83
	330-427		Porphyritic andesite	90-100 = .95

Assays

0-40	= 10	0.20% Copper	= 800
40-150	= 110	0.45% "	= 4950
150-230	= 80	0.16% "	= 1280
230-290	= 60	0.26% "	= 1560
290-300	= 10	0.03% "	= 8590
300-330	= 30	No assays	
330-350	= 20	0.28% Copper	
350-427	= 77	0.12% "	
			<u>.29</u> 290

South zone

M - 3 weak mag; weak IP

Latitude 43,650'N Departure 24,450'E Elevation 4,250'

Dip -90°

Footage

Geology

0-50  
50-223

Casing  
Diorite + feldspathized diorite. Some Py.

Assays

50-223 0.08% Copper

S.2

M - 4 Mag low; IP at depth.

Latitude 44,335'N Departure 24,535'E Elevation 4,200'

Footage

Geology

Dip -90°

0-20  
20-92  
92-118  
118-175  
175-230  
230-352

Overburden  
Diorite  
Porphyritic andesite  
Diorite  
Porphyritic andesite  
Diorite

20-250 = feldspathic Nicola  
distem. Py + Cr.  
250-352 = feldspathized  
diorite.

Assays:  
277-297 = 0.4  
197-297 = .31

Assays

0-180  
180-200  
200-320  
320-352

No assays  
0.20% Copper  
0.30% "  
0.12% "

100  
3600  
384  
4384 : 172 = .25%

South zone

M - 5 weak mag high. IP low

Latitude 43,950'N Departure 23,730'E Elevation 4,300'

Footage

Geology

Dip -90°

0-186

Diorite (feldspathized)

Assays

40-80  
80-186

0.07% Copper  
No assays

South  
ZoneM - 6 Edge mag high; over IP anomaly - at depth and slight  
to the east.

Latitude 43,420'N Departure 25,010'E Elevation 3,800'

Bearing 320° Dip -75°

FootageGeology

.21	{	0-15	Casing	<i>(augite andesite)</i> Dr. Hem. P, Cr, Mn
		15-145	Porphyritic andesites	
		145-170	Diorite	
		170-185	Porphyritic andesite	

15 - 95 = .15  
95 - 185 = .26  
120 - 140 = 0.10%

Assays

15-115	0.16% Copper
115-185	0.28% "

South  
Zone

M - 7 moderate mag anomaly; western edge of a deep IP anomaly.

Latitude 24,625'N Departure 24,030'E Elevation 4,300'

Dip -90°

FootageGeology

.17	{	0-25	Casing	<i>(augite andesite)</i>
		25-140	Porphyritic andesite	
		140-328	Diorite ( <i>feldspathic</i> )	

300 - 320 = .35%

Assays

20-200	0.10% Copper
200-320 = 120'	0.28% "

1968 ROTARY DRILLING

South R - 1 mag low; strong IP so she was at depth.

Zone Latitude 44,390'N Departure 25,225'E Elevation 3,800'

Dip -90°

FootageGeology

0-490	Andesite
490-500	Granite
500-540	Andesite
540-550	Granite
550-560	Diorite
560-580	Andesite
580-590	Diorite
590-730	Andesite
730-740	Granite
740-760	Andesite
760-770	Diorite
770-1,000	Andesite

0.01% Cu  
0.012% Mo

Assays

0-930	0.03% Copper
930-940	0.19% "
940-1,000	0.05% "

Add R - 2 Mag low, IP low.

Zone Latitude 45,910'N Departure 24,550'E Elevation 4,000'

Dip -90°

FootageGeology

0-20	Overburden
20-420	Diorite
420-490	Andesite
490-520	Diorite
520-540	Andesite
540-580	Diorite
580-610	Andesite
610-670	Diorite

.10% Cu  
.008 Mo

R - 2 Continued.

<u>Footage</u>		<u>Assays</u>
20-220 = 200	0.05% Copper	$  \begin{array}{r}  370 \\  400 \\  100 \\  1190 \\  840 \\  1840 \\  \hline  5340 : 650 = .8  \end{array}  $
- 220-230 = 10	0.37% "	
230-300 = 70	0.10% "	
300-380 = 80	0.05% "	
- 380-450 = 70	0.17% "	
450-590 = 140	0.06% "	
- 590-670 = 80	0.23% "	

*South  
Zone*

R - 3 *IP low, mag low*

Latitude 45,910'N Departure 24,545'E Elevation 4,050'

Dip -90°

Footage                      Geology

0-20	Overburden
20-800	Andesite
800-880	Diorite
880-910	Andesite

*Bedded tuff.*

Assays

$  \left. \begin{array}{l} 0.06\% \\ 0.009\%/\text{ft} \end{array} \right\}  $	20-200	0.04% Copper
	- 200-210	0.29% "
	- 210-240	0.16% "
	240-910	0.05% "

*South  
Zone*

R - 4 *Moderate mag high, moderate IP anomaly.*

Latitude 45,030'N Departure 23,990'E Elevation 4,300'

Dip -90°

Footage                      Geology

$  \left. \begin{array}{l} .17\% \end{array} \right\}  $	0-20	Overburden
	20-330	Andesite
	330-340	Pink granite ???
	340-723	Andesite

*augite andesite + foliated  
Nicola rocks. Quartz veins  
near bottom of hole.  
Abundant py.*

Assays

- 20-70 = 50	0.25% Copper	1250
70-90 = 20	0.15% "	300
- 90-140 = 50	0.32% "	1600
- 140-200 = 60	0.28% "	1680

$4830 : 220 = .22$

$$\left. \begin{array}{l} 120-130 = .56\% \text{ Cu} \\ 250-260 = .56\% \\ 20-270 = .24\% \\ 200-270 = .30\% \end{array} \right\} \text{Amox}$$

R - 4 Continued

<u>Footage</u>		<u>Assays</u>	
-200-290 = 90	0.22%	Copper	1980
290-400 = 110	0.04%	"	440
400-480 = 80	0.12%	"	960
-480-490 = 10	0.45%	"	150
-490-530 = 40	0.32%	"	1280
530-600 = 70	0.18%	"	1260
600-730 = 130	0.10%	"	1300
			<hr/>
			7640 + 4830 = 12500 : 73 = .17

140-200 = 60 @ .28 = 1680  
 200-290 = 90 @ .22 = 1980  
 480-490 = 10 @ .45 = 450  
 490-530 = 40 @ .32 = 1280  
 3060 : 150 = .24  
 1230 : 150 = .34

1969 DIAMOND DRILLING

*South  
Zone*

A-1 moderate mag high. Western edge of moderate IP anomaly

Latitude 44,420'N Departure 23,850'E Elevation 4,300'

Dip -90°

Footage

Geology

.33%	{	0-8	Casing
		8-140	Andesite
		140-150	Diorite
		150-442	Andesite
		442-449	Feldspar porphyry dike

*augite andesite, bedded with  
folded ashic Nicola.  
Cp contains greater than  
Py content. Minor MoS<sub>2</sub>*

Assays

<i>8-100E = .20</i>	8-50	0.20% Copper	= 92' = 1842	200-220 = .80% Cu
<i>100-340E = .42</i>	<del>50-340</del>	0.42% "	= 24' = 10080	8-108 = .21%
<i>340-400 = .17</i>	340-400	0.17% "	= 49' = 1020	100-340 = .42%
<i>400-449 = .27</i>	400-449	0.27% "	= 49' = 1323	340-440 = .21%
			<u>14203</u>	
			= .32	
			441'	

*South  
Zone*

A-3 moderate mag high, western edge of moderate IP.

Latitude 44,830'N Departure 23,690'E Elevation 4,300'

Bearing 270°

Dip -45°

Footage

Geology

.26%	{	0-15	Casing
		15-160	Andesite
		160-449	Diorite

*15-135 augite andesite with Cu, Py + mag.  
135-470 mineralized microdiorite  
and feldsparized diorite.*

Assays

15-30 = 15	0.20% Copper	= 300	50-60 = 0.87% Cu
30-260 = 230	0.37% "	= 8510	30-230 = 0.37%
260-449 = 189	0.17% "	= 3213	
		<u>12023</u>	
		449 = .26	

1969 DIAMOND DRILLING

South  
Zone

69 - 1 eastern flank of mag high. over moderate IP anomaly

Latitude 45,030'N Departure 24,180'E Elevation 4,300'

Bearing 270° Dip -45°

Footage

Geology

0-28	Casing
28-70	Andesite
70-80	Feldspar porphyry
80-146	Andesite breccia
146-175	Diorite - orthoclase
175-390	Andesite
390-393	Feldspar porphyry
393-494	Andesite
494-502	Pink diorite
502-610	Andesite
610-740	Porphyritic diorite
740-927	Diorite
927-997	Pink granodiorite

28-620 = augite andesite  
and feldspathic  
Nicola rocks  
620-997: microdiorite  
and feldspathized  
diorite.

Assays

28-220	0.07% Copper
-220-280 = 60	0.28% "
280-300 = 20	0.16% "
-300-310 = 10	0.25% "
310-350	0.14% "
350-560	0.19% "
560-600	0.16% "
600-890	0.12% "
890-910	0.18% "
910-997	0.07% "

28-200 = .06% Cu  
200-620 = .19%  
620-997 = .11%

.25  
90'

1680  
320  
250  
2250

South  
Zone

69 - 2 moderate mag high; western edge of IP anomaly

Latitude 44,010'N Departure 24,700'E Elevation 4,200'

Bearing 270° Dip -45°

Footage

Geology

0-43	Casing
43-50	Feldspar porphyry
50-60	Andesite
60-70	Feldspar porphyry
70-92	Diorite
92-100	Feldspar porphyry
100-108	Fault gouge
108-430	Diorite faults at 150' and 420'
430-800	Porphyritic diorite

Pj. content decreases  
down the hole.

43-800 = augite andesite  
160-220 = Diorite  
410-430 = Diorite  
quite variegated  
with  $CaMoO_4$   
in diorite.

.22%



69 - 2 Continued

Footage	Assays
40-330 = 290	0.10% Copper - 2900
-330-370 = 40	0.28% " = 1120
-370-440 = 70	0.20% " = 1400
-440-620 = 180	0.36% " = 6480
-620-680 = 60	0.20% " = 1200
-680-770 = 90	0.27% " = 2430
770-800 = 30	0.17% " = 510
	16040 : 760 = 21%

South  
Zone

69 - 3 in a moderate mag high. Western edge of moderate IP

Latitude 44,630'N Departure 23,770'E Elevation 4,300'  
Bearing 270° Dip -45°

Footage	Geology
0-40	Casing
40-167	Diorite
167-168	Pink granodiorite
168-191	Andesite
191-192	Pink granodiorite dike
192-290	Andesite
290-352	Diorite
352-450	Pink granodiorite
450-470	Porphyritic diorite
470-497	Pink granodiorite
497-500	Porphyritic diorite

40-285 = augite andesite and feldspathic Nicola rocks.  
285-350 = microdiorite  
350-500 = feldspathized diorite. low py contents. decreasing down hole.  
Near bottom of hole: quartz-K-feldspar associated with calc + H<sub>2</sub>O.

Assays

.23% Cu	30-40	0.25% Copper	
	40-50	No assays	
	50-70 = 20	0.32% Copper	= 640
	70-100 = 30	0.13%	" 390
	100-330 = 230	0.36%	" 8280
	330-490 = 160	0.06%	" 960
	490-500 = 10	0.28%	" 280
		10550 : .23	

10-130 = .22% Cu  
130-350 = .38  
130-140 = .66%  
240-250 = .66

West Zone

69 - 4 East of mag high; west of moderate IP anomaly

Latitude 50,250'N Departure 20,740'E Elevation 4,640'

Dip -90

Footage

Geology

0-25 Casing  
 25-105 Porphyritic diorite fault at 82'  
 105-250 Brecciated andesite fault at 140'  
 250-260 Diorite  
 260-270 Feldspar porphyry  
 270-273 Diorite  
 273-338 Brecciated andesite  
 338-398 Grey green limestone

0-340 Breccia

340-398 = limestone

magnetite at contact  
Py + hematite + epidote in breccia.

Assays

0-398 0.03% Copper 0-398 = 0.02% Cu

West Zone

69 - 5 IP anomaly; slight mag low.

Latitude 49,750'N Departure 20,570'E Elevation 4,650'

Dip -90

Footage

Geology

0-22 Casing  
 22-190 Diorite  
 190-210 Andesite  
 210-230 Diorite  
 230-278 Andesite  
 278-310 Diorite  
 310-365 Limy tuff  
 365-400 Diorite  
 400-420 Andesite breccia  
 420-450 Diorite  
 450-457 Andesite fault at 457'  
 457-500 Diorite

Py + Cp roudous variable and associated with epidote pink feldspar.

Diorite; microdiorite, Breccia.

.16%

Assays

.24% 220'	{	20-90 = 70	0.45% Copper = 3290	20-90 = .17% Cu = 3290
		90-210 = 120	0.10% " = 1200	60-70 = .90% Cu
		210-240 = 30	0.30% " = 900	210-210 = .30%
		240-500 =	0.10% " = 5390	220 = .24%
				<u>220</u>

West  
Zone

69 - 6 west of mag high; east of deep mag high.

Latitude 49,430'N Departure 20,700'E Elevation 4,650'

Bearing 250° Dip -45°

Footage	Geology
0-15	Casing
15-110	Diorite breccia
110-112	Feldspar porphyry
112-288	Diorite and porphyry
288-300	Andesite dike
300-510	Diorite fault 500 to 510'

Diorite, microdiorite,  
breccia. Cut by  
andesite dykes.  
Cp associated with  
Mag + epidote + carbonate.  
Increase of cp towards  
end of hole.

Assays

15-410	0.05% Copper	110-510 = 0.38%
410-510	0.38% "	460-480 = 0.70%

West  
Zone

69 - 7 Strong IP anomaly; Mag high.

Latitude 48,400'N Departure 20,250'E Elevation 4,580'

Bearing 10° Dip -45°

Footage	Geology
0-35	Casing
35-657	Diorite and porphyry fault at 380'

To 150' is pyritic  
limy dioritic breccia cut  
by feldspar porphyry dyke  
and andesite dykes.  
Cp associated with abundant  
carbonate, epidote  
and magnetite  
near bottom of  
hole.

Assays

40-50	0.14% Copper	550-657 = 0.44% Cu
50-60	0.40% "	
60-360	0.08% "	620-657 = 0.78% Cu
360-400	0.27% "	
400-550	0.12% "	
550-657	0.44% "	

West Zone 69 - 8

Latitude 48,400'N Departure 20,250'E Elevation 4,580'

Dip -90°

Footage	Geology
0-38	Casing
38-150	Diorite
150-152	Andesite dike
152-500	Diorite fault at 400'

Chloritic diorite, micro-  
diorite. cut by feldspar  
porphyry + andesite dykes.  
to 452  
452 Pyritic Niola breccia

69 - 8 Continued

<u>Footage</u>	<u>Assays</u>
40-290	0.09% Copper
290-300	0.34% "
300-440	0.07% "
440-450	0.29% "
450-500	0.05% "

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79-80 = .24% Cu

1971 DIAMOND DRILLING71 - 3*Add. Zone.*

Latitude 47,420' N Departure 25,330' E Elevation 3,420'

Bearing 270° Dip -60°

FootageGeology

0-500

Andesite

Assays

0-500

0.06% Copper

71 - 4*Addit zone*

Latitude 47,000' N Departure 25,00' E Elevation 3,495'

Bearing 270° Dip -60°

FootageGeology

0-652

Volcanics

Assays

No assays

71 - 5*Added Zone*

Latitude 47,060' N Departure 24,200' E Elevation 3,720'

Bearing 270° Dip -45°

FootageGeology0-450  
450-600Andesite Andesite and a fault at 450'  
AndesiteAssays0-440  
440-450  
450-6000.02% Copper  
0.08% "  
0.02% "

71 - 6 *Addit zone*

Latitude 48,010' N Departure 24,250' E Elevation 3,675'

Bearing 250° Dip -45°

Footage                      Geology

0-25	Overburden
25-85	Diorite
85-86	Andesite dike
86-122	Diorite
122-124	Andesite dike
124-617	Diorite

100-110

Assays

30-100	0.08% Copper	
100-180 = 80	0.23%	"180 / 100 - 330 = 230 = $\frac{.13}{230}$
180-320 = 140	0.07%	"980
320-330 = 10	0.35%	"50
330-510 = 180	0.08%	"170
510-530 = 20	0.48%	"
530-617 = 87	0.08%	"

71 - 7 *Addit Zone*

Latitude 48,300' N Departure 25,100' E Elevation 3,120'

Bearing 270° Dip -60°

Footage                      Geology

0-124	Casing
124-165	Pink diorite
165-170	Andesite dike
170-260	Diorite with a fault at 204'
260-656	Andesite

Assays

0-656	0.04% Copper
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71 - 8*South zone*

Latitude 44,740' N Departure 25,675' E Elevation 3,723'

Bearing 270° Dip -45°

FootageGeology

0-29	Casing
29-150	Andesite
150-170	Diorite
170-287	Tuff
287-292	Andesite dike
292-317	Tuff
317-318	Andesite dike
318-421	Tuff
421-423	Andesite dike
423-651	Tuff and sediments

Assays

0-651	0.01% Copper
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71 - 9*South Zone*

Latitude 44,650' N Departure 25,840' E Elevation 4,100'

Bearing 270° Dip -45°

FootageGeology

0-15	Overburden
15-138	Sediments (tuff)
138-167	Diorite
167-416	Sediments (tuff)
416-447	Diorite porphyry
447-473	Sediments (tuff)
473-560	Pink diorite

Assays

15-490	0.12% Copper = 5700
- 490-563 = 73	0.21% "      x 533
<u>548</u>	<u>6233 = .11</u>

DIAMOND DRILLING 197272 - 1 *Addit*

Latitude 48,170' N Departue 24,000' E Elevation 3,850'

Bearing 283° Dip -50°

FootageGeology

0-91	Diorite
91-103	Fine grained andesite dike
103-106	Diorite
106-111	Andesite dike
111-118	Diorite
118-121	Andesite dike
121-133	Diorite
133-136	Andesite dike
136-170	Diorite porphyritic
170-180	Andesite
180-221	Diorite porphyritic
221-223	Andesite dike
223-269	Porphyritic diorite
269-270	Andesite dike
270-364	Diorite-porphyritic rubble
364	Fault

Assays

0-220 = $\frac{220}{1000}$	0.85% Copper
220-364 = $\frac{144}{1000}$	0.11% "

72 - 2 *Addit*

Latitude 48,040' N Departure 23,900' E Elevation 3,870'

Bearing 284° Dip -50°

FootageGeology

0-6	Casing
6-23	Porphyritic diorite
23-26	Andesite dike
26-193	Diorite
193-303	Dark andesite, some orthoclase



72 - 2 Continued

<u>Footage</u>	<u>Assays</u>
0-28 =	0.30% Copper
28-233 = 205	0.10% "
$\frac{.30}{70} \left\{ \begin{array}{l} 233-251 = 18' \\ 251-271 = 20' \\ 271-303 = 32' \end{array} \right.$	0.20% " = 360
	0.50% " 1000
	0.24% " $\frac{768}{2128 : 70} =$

72 - 2A *Add*

Latitude 48,040'N Departure 23,900'E Elevation 3,870'

Bearing 284° Dip -50°

FootageGeology

0-10	Casing
10-89	Porphyritic andesite
89-96	Andesite dike fault
96-106	Porphyritic andesite
106-115	Porphyritic diorite
115-150	Porphyritic andesite
150-337	Porphyritic diorite

Assays

0-90	0.06% Copper
$\frac{.41}{80} \left\{ \begin{array}{l} - 90-110 = 20' \\ 110-140 = 30' \\ - 140-170 = 30' \\ 170-270 \\ - 270-310 = 40' \\ 310-337 \end{array} \right.$	0.43% " = 860
	0.09% " 270
	0.51% " $\frac{1530}{333.0 : 80} = 0.41$
	0.10% "
	0.30% "
	0.11% "

72 - 3 *Add*

Latitude 48,500'N Departure 24,170'E Elevation 3,870'

Bearing 284° Dip -50°

FootageGeology

0-21	Siliceous leached diorite
21-47	Dark diorite porphyry
47-226	Dark porphyritic andesite
226-228	Andesite dike
228-480	Diorite
480-500	Porphyritic andesite
500-613	Crusted siliceous diorite

72 - 3 Continued

<u>Footage</u>	<u>Assays</u>
0-100	0.11% Copper = 1100
-100-270 = 170'	0.52% " = 8840
270-613	0.07% " = 9940 : 279

72 - 4*Sawh Zone*

Latitude 45,750' N Departure 24,335' E Elevation 4,000'

Bearing 226° Dip -45°

<u>Footage</u>	<u>Geology</u>
0-8	Casing
8-13	Diorite
13-24	No core
24-27	Diorite
27-32	No core
32-35	Andesite epidote
35-37	No core
37-61	Andesite epidote-pebbles, gouge
61-84	Diorite crushed
84-270	Andesite, epidote, crushed
270-336	Siliceous diorite
336-337	Andesite dike
337-340	Andesite
340-490	Siliceous diorite
490-494	Andesite dike
494-500	Siliceous diorite
500-520	Andesite
520-642	Diorite
642-983	Chloritic andesite
983-985	Andesite dike
985-1132	Diorite
1132-1133	Andesite dike
1133-1170	Diorite
1170-1259	Silicified andesite-orthoclase
1259-1343	Diorite

Assays

- 8-120 = 112'	0.61% Copper	6832	8-1210 = $\frac{0.18\% \text{ Cu}}{1202}$
120-230 = 110'	0.17% "	1870	
- 230-320 = 90'	0.29% "	2610	
320-1050 = 730'	0.10% "	7300	
$\frac{22}{100}$ { 1050-1110 = 60'	0.28% "	1680	
{ 1110-1190 = 80'	0.18% "	1440	
- 1190-1210 = 20'	0.26% "	520	
1210-1343 = 133'	0.05% Copper	22252 : 1202 = .18	3120

72 - 5 *West Zone*

Latitude 49,190'N Departure 20,200'E Elevation 4,590

Bearing 90° Dip -45°

<u>Footage</u>	<u>Geology</u>
0-25	Overburden
25-65	Agglomerate
65-260	Tuff
260-266	Limestone
266-280	Tuff
280-334	Diorite
334-649	Tuff and breccia
649-702	Diorite porphyritic
702-711	Tuff
711-716	Andesite
716-785	Agglomerate
785-791	Andesite purple
791-816	Tuffs hematite
816-884	Porphyritic diorite

Assays

25-130	0.04% Copper		
130-140 = 10'	0.44% "	= 440	
140-220 = 80'	0.07% "	560	
- 220-250 = 30'	0.26% "	780	
250-260 = 10'	0.09% "	90	
- 260-270 = 10'	0.27% "	270	
270-300 = 30'	0.15% "	450	
- 300-370 = 70'	0.26% "	1820	
370-640 = 270'	0.10% "	2700	
- 640-650 = 10'	0.30% "	300	
650-884 =	0.09% "		
		<u>7410</u>	
		520 = $\frac{17}{520}$	

5540:

270  
450  
1820  
2700  
300  
5540

2540:110  
= .23

72 - 6 *West Zone*

Latitude 49,400'N Departure 20,190'E Elevation 4,620'

Bearing 90° Dip -45°

<u>Footage</u>	<u>Geology</u>
0-45	Overburden
45-73	Agglomerate
73-80	Andesite
80-93	Agglomerate

72 - 6 Continued

<u>Footage</u>	<u>Geology</u>
93-101	Andesite dike
101-112	Agglomerate
112-145	Porphyritic andesite
145-268	Andesite
268-338	Diorite - brecciated
338-420	Tuff
420-433	Diorite
433-438	Andesite
438-462	Diorite
462-465	Andesite
465-469	Diorite
469-473	Tuff
473-482	Andesite
482-502	Diorite

Assays

0-200	0.09% Copper	
- 200-220 = 20'	0.39% "	780
220-260 = 40'	0.10% "	400
- 260-290 = 30'	0.35% "	1050
290-370	No assays	$2230 : 90 = .24$
370-470 100	0.15% Copper	1500
- 470-490 = 20'	0.37% "	740
- 490-502 = 12	0.20% "	240
		$2480 : 132 = .18$

72 - 7*West Zone*

Latitude 48,980'N Departure 20,100'E Elevation 4,560'

Bearing 90°

Dip -45°

<u>Footage</u>	<u>Geology</u>
0-60	Overburden
60-168	Agglomerate
168-194	Tuff
194-227	Agglomerate
227-246	Tuff
246-254	Agglomerate
254-306	Tuff

72 - 7 Continued*West Zone*FootageAssays

	0-180	No assays	
.14% 126'	180-220 = 40	0.12% Copper	= 480
	220-240 = 20	0.27% "	540
	240-306 = 66	0.13% "	858
			<u>1878</u> : .14

72 - 8*Sand Zone*

Latitude 43,380'N Departure 25,000'E Elevation 3,890'

Bearing 240°

Dip -45°

FootageGeology

0-237	Porphyritic andesite
237-255	Tuff
255-381	Porphyritic andesite crushed
381-418	Diorite - crushed, chlorite, orthoclase

Assays

- 0-30 = 30'	0.27% Copper	810	
30-80 = 50	0.18% "	900	
80-120 = 40	0.09% "	360	
120-200 = 80	0.18% "	1440	
- 200-260 = 60'	0.32% "	1920	
260-360 = 100	0.12% "	1200	
- 360-370 = 10'	0.22% "	220	
<u>370-418</u>	0.03% "	<u>6850</u> : 370 =	<u>18</u> 370'

72 - 9*West Zone*

Latitude 48,575'N Departure 20,050'E Elevation 4,580

Bearing 90°

Dip -45°

FootageGeology

0-70	Overburden
70-178	Tuff
178-181	Andesite
181-222	Diorite
222-245	Porphyritic andesite breccia
245-288	Tuff - fault at 285'

72 - 9 Continued

*West Zone*

<u>Footage</u>	<u>Assays</u>
- 70-130 = 60'	0.29% Copper 1740
130-270 = 140'	0.13% " 1820
- 270-288 = 18'	0.36% " 648
	$\frac{648}{4208} = 2.18 = .19$

72 - 10

*South Zone*

Latitude 45,620'N Departure 24,350'E Elevation 4,250'

Dip -90

FootageGeology

0-30	Porphyritic andesite
30-73	Diorite
73-94	No core
94-127	Diorite pebbles 17
127-139	No core
139-149	Andesite
149-194	Diorite
194-195	Andesite dike
195-211	Diorite

Assays

0-30 = 30'	0.14% Copper 120
- 30-60 = 30'	0.27% " 810
60-80 = 20'	0.10% " 200
- 80-90 = 10'	0.36% " 360
90-100 = 10'	0.10% " 1790
100-211	No assays
	$\frac{1790}{90} = .19$

72 - 11

*Adit*

Latitude 48,170'N Departure 24,000'E Elevation 3,850'

Dip -90°

FootageGeology

0-7	Diorite
7-10	Gouge
10-40	Diorite
40-44	Gouge
44-131	Diorite
131-141	Andesite dike
141-172	Diorite

72 - 11 Continued

<u>Footage</u>	<u>Geology</u>
172-177	Andesite dike
177-184	Diorite
184-192	Andesite dike
192-201-	Diorite
201-204	Andesite dike
204-263	Diorite
263-265	Andesite dike
265-271	Diorite
271	Andesite

Assays

$\frac{0.29}{271}$	0-110 = 110	0.52% Copper	5720
	110-160 = 50	0.13% "	650
	160-170 = 10	0.30% "	300
	170-271 = 101	0.12% "	1212
			7882 : 271 = .29

72 - 12

*South Zone*

Latitude 44,420' N Departure 24,030' E Elevation 4,330'  
 Bearing 270° Dip -45°

<u>Footage</u>	<u>Geology</u>
0-12	Diorite
12-132	Andesite - epidote
132-187	Diorite
187-205	Andesite
205-306	Diorite
306-365	Andesite
365-562	Diorite

Assays

0-210 = 210	0.14% Copper	2940	
210-300 = 90	0.38% "	3420	
300-320 = 20	"	200	
320-360 = 40	0.10% "	1360	
360-420 = 60	0.34% "	600	
420-430 = 10	0.10% "	260	
430-480 = 50	0.26% "	500	
480-562 = 82	0.10% "	902	
			10182 : 210 = .49

$\frac{.26}{210 - 420 = 210}$

72 - 13*South Zone*

Latitude 44,630' N Departure 23,970' E Elevation 4,350'

Bearing 270° Dip -45°

FOOTAGEGeology

0-16	Overburden
16-110	Andesite
110-277	Diorite
277-279	Andesite dike
279-291	Diorite crushed
291-350	Andesite epidote
350-445	Diorite
445-477	Chloritic shear zone - orthoclase
477-568	Diorite - fault at 519'
568-570	Andesite dike
570-587	Diorite

Assays

0-50	0.12% Copper =
50-130 = 80'	0.34% " 2720
130-240 = 110'	0.16% " 1760
240-410 = 170'	0.29% " 4930
410-460 = 50'	0.11% " 550
460-500 = 40'	0.30% " 1200
500-587	0.09% " 10665 : 450 = .23

72 - 14*South Zone*

Latitude 44,410' N Departure 24,230' Elevation 4,330'

Bearing 270° Dip -45°

FootageGEology

0-17	Overburden
17-53	Diorite
53-145	Andesite fault at 80-85'
145-178	Diorite - crowded porphyritic
178-199	Andesite
199-202	Diorite
202-209	Crushed andesite



72 - 14 Continued

<u>Footage</u>	<u>Geology</u>
209-222	Diorite fault at 220'
222-250	Andesite
250-372	Diorite
372-446	Andesite fault at 444'
446-479	Diorite
479-483	Andesite - chloritic
483-495	Diorite
495-499	Andesite
499-583	Diorite
583-593	Andesite sheared
593-615	Diorite
615-657	Andesite
657-660	Pink granite
660-682	Andesite - massive
682-690	Diorite fault at 682'
690-704	Andesite - epidote

Assays

Footage	Assay	Value	Weight	Total
0-30	0.11% Copper	1960		12490
30-100 = 70'	0.28% "	1600	170	
100-180 = 80'	0.20% "	540		
180-200 = 20'	0.27% "	1970		590
200-370	0.11% "	1000		3380
370-410	0.25% "	480		
410-440	0.16% "	1120		1700
440-480 = 40'	0.28% "	360		
480-510 = 30'	0.12% "	880		12490
510-530 = 20'	0.44% "	360		
530-570 = 40'	0.09% "	660		13408
570-590 = 20'	0.33% "	180		
590-610 = 20'	0.09% "	580		19
610-620 = 10'	0.29% "	280		
620-680 = 60'	0.07% "	470		
680-690 = 10'	0.47% "	108		
690-704	0.12% "			

72 - 15

South Zone

Latitude 45,750'N Departure 24,335'E Elevation 4,000'

Bearing 135° Dip -45°

<u>Footage</u>	<u>Geology</u>
- 0-202	Andesite fault at 106 to 130'
- 202-208	Fault gouge
208-250	Andesite epidote pyrite

72 - 15 Continued

<u>Footage</u>	<u>Assays</u>
150' } - 0-70 = 70'	0.50% Copper 3500
70-140 = 70	0.10% " 790
- 140-150 = 10'	0.25% " 250
150-250	0.07% " 4450 : 150 = .29

72 - 16

Sowk Zone

Latitude 45,840' N Departure 23,900' E Elevation 4,370'

Bearing 270° Dip -45°

<u>Footage</u>	<u>Geology</u>
0-38	Overburden
- 38-44	Diorite
44-124	Andesite
124-132	Andesite dike
- 132-213	Andesite sheared
213-262	Granodiorite
- 262-291	Andesite sheared - fault at 281'
291-500	Diorite

Assays

- 38-50 = 12'	0.30% Copper 360
50-160 = 110	0.14% " 1540
- 160-210 = 50'	0.29% " 1450
210-260 = 50'	0.15% " 750
- 260-270 = 10'	0.27% " 270
270-290 = 20'	0.12% " 240
- 290-370 = 80'	0.12% " 2960
370-420 = 50'	0.37% " 1002
- 420-480 = 60'	0.20% " 8570
480-500	0.46% " .19
	0.01% " 442

480-38:442

3960 : 13 = .30

2960	
1000	
2700	
6720	.35
	190'

72 - 17

Addis

Latitude 48,480° N Departure 24,230' E Elevation 3,920'

Bearing 285° Dip -50°

<u>Footage</u>	<u>Geology</u>
0-5	Overburden
5-7	Diorite
7-26	Clay and no core

72 - 17 Continued

<u>Footage</u>	<u>Geology</u>
26-126	Diorite
126-128	Andesite dike
128-236	Diorite
- 236-242	Andesite dike
242-320	Diorite

Assays

0-250	0.04% Copper
- 250-290 = 40'	0.79% "
290-320	0.04% "

72 - 18*Add Zone*

Latitude 48,680' N Departure 24,250' E Elevation 3,920'

Bearing 285° Dip -40°

<u>Footage</u>	<u>Geology</u>
0-7	Overburden
7-92	Diorite
92-100	No core
- 100-232	Diorite
232-238	Gouge and no core
238-257	Diorite
257-259	Fault and andesite dike
- 259-383	Diorite
383-387	Andesite dike
387-398	Diorite
398-402	Andesite dike
402-406	Diorite - orthoclase alteration

Assays

7-110	0.04% Copper	
- 110-230 = 120	0.38% "	1560
230-260 = 30	0.09% "	270
- 260-270 = 10'	0.47% "	470
270-406	0.06% "	5300 = 33

DIAMOND DRILLING 197373 - 1*Addis*

Latitude 48,135' N Departure 23,800' E Elevation 4,000'

Bearing - Dip -90°

FootageGeology

0-18	Overburden
18-38	Diorite - barren
38-50	No core gouge
50-64	Diorite - leached limonite
64-69	No core mud
69-78	Diorite - barren
78-97	Gouge
97-142	Diorite - barren
142-154	Porphyritic andesite dike
154-157	Diorite crushed
157-161	Porphyritic andesite dike
161-215	Diorite - disseminated hematite
215-248	Gouge, diorite pebbles
248-294	Diorite
294-300	No core
-300-377	Diorite, fault at 326-329'
377-381	No recovery
381-502	Diorite, 1 to 4% pyrite-magnetite Mud: 486 to 498'

Assays

0-350	0.04% Copper
- 350-370 = 30'	0.25% "
370-502	0.04% "

73 - 2*Addis*

Latitude 48,290' N Departure 23,910' E Elevation 4,000'

Dip -90°

FootageGeology

0-57	Crushed leached limonite stained diorite
57-66	Andesite dike, mud at 64'
66-70	Crushed diorite, 5 to 10% pyrite
70-74	Andesite dike
74-126	Crushed leached diorite, 5 to 10% pyrite

73 - 3 Continued

<u>Footage</u>	<u>Geology</u>
-126-128	Mud, andesite dike
128-141	Diorite breccia 10% pyrite
141-146	Rusty andesite dike
-146-437	Diorite 5% pyrite
437-440	Andesite Dike
440-485	Diorite 2% pyrite
485-489	Andesite dike fault at 485'
489-517	Diorite 5% pyrite

Assays

0-60 = 60	0.15% Copper	900	
60-120 = 60	0.08%	"	480
=120-130 = 10'	0.28%	"	280
130-180 = 50	0.08%	"	400
-180-190 = 10	0.27%	"	270
.75% } 190-240 = 50	0.13%	"	650
-240-260 = 20'	0.55%	"	1100
260-510 =	0.05%	"	4080
-510-517 = 7'	0.33%	"	260 = .15%

2020 + 80 =  $\frac{.25}{88}$

*why did they stop here.*

73 - 3 *Addit*

Latitude 48,140' N Departure 24,165' E Elevation 3,720'  
Dip -90°

<u>Footage</u>	<u>Geology</u>
0-196	Diorite 5% pyrite
196-213	Fine grained andesite 5% pyrite
213-286	Diorite 3 to 10% pyrite
286-348	Fine grained andesite or diorite

Assays

0-80	0.08% Copper	
80-90 = 10	0.28%	"
90-130 = 40	0.11%	"
130-140 = 10	0.72%	"
140-160 = 20	0.12%	"
160-240 = 80	0.86%	"
240-260 = 20	0.04%	"
260-348 = 88	0.62%	"

280  
 440  
 720  
 240  
 6880  
 30  
 5450  
14096 = 268

*52% } 268'*

APPENDIX II

1970 PERCUSSION HOLES

PA - 1      *South Zone*

Latitude 44,380'N    Departure 23,860'E    Elevation 4,300'

Footage

Geology

0-270                      Volcanics

---

Assays

0-20	0.27% Copper	510
20-60	0.12% "	480
-60-70	0.23	230
70-100	0.12% "	360
-100-230-130'	0.35% "	1550
230-270	0.14% "	560
		<hr/>
		6720 : 270 = .24% Cu

---

PA - 2      *South Zone*

Latitude 44,315'N    Departure 24,305'E    Elevation 4,300'

Footage

Geology

0-340                      Volcanics

---

Assays

0-170	0.12% Copper	2010
-170-180 = 10'	0.21% "	210
180-230	0.12% "	600
-230-240 = 10'	0.26% "	260
-240-260 = 20'	0.21% "	420
260-320	0.14% "	740
-320-340 = 20'	0.22% "	440
		<hr/>
		4870 : 310 = .14%

---



PA - 6A *South Zone*

Latitude 43,790'N Departure 25,060'E Elevation 3,750'

Footage Geology

0-200 Volcanics

---

Assays

0-20 = 20'	0.36% Copper	720
20-140	0.08% "	960
-140-150 = 10	0.25% "	250
150-200	0.08% "	100
		<u>2330 = 0.116%</u>

---

PA - 7 *South Zone*

Latitude 45,300'N Departure 26,120'E Elevation 3,600'

Footage Geology

0-220 Volcanics

---

Assays

0-220 0.02% Copper

---

PA - 8 *South Zone*

Latitude 45,900'N Departure 25,910'E Elevation 3,550'

Footage Geology

0-190 Volcanics

---

Assays

0-190 0.01% Copper

---



PA - 9 *South Zone*

Latitude 46,300'N Departure 25,670'E Elevation 3,500'

Footage Geology  
0-260 Volcanics

Assays

0-260 0.03% Copper

PA - 10 *Addit.*

Latitude 46,850'N Departure 23,500'E Elevation 4,150

Footage Geology  
0-60 Volcanics

Assays

0-60 0.06% Copper

PA - 11 *South Zone*

Latitude 46,000'N Departure 23,620'E Elevation 4,270

Footage Geology  
0-200 Volcanics

Assays

0-200 0.07% Copper

PA - 12 *South Zone*

Latitude 45,650'N Departure 23,680'E Elevation 4,310

Footage Geology  
0-200 Volcanics

Assays

0-140	0.05% Copper	700
-140-160 = 20'	0.26% "	520
160-200	0.05% "	200
		<u>1420</u>

1200: 0.07% Cu

PA - 13      *South Zone*

Latitude 45,270'N    Departure 23,870'E    Elevation 4,300'

Footage                                  Geology

0-300                                  Volcanics

---

Assays

10-40		0.19% Copper	570
- 40-130 = 90'		0.27% "	2430
130-180	50'	0.17% "	850
- 180-190 = 10'		0.31% "	310
190-300 = 110		0.17% "	1870
			<hr/> 6030 : 290 = .20

---

PA - 14      *South Zone*

Latitude 45,500'N    Departure 23,570'E    Elevation 4,300'

Footage                                  Geology

0-300                                  Volcanics

---

Assays

0-40		0.09% Copper	= 360
- 40-50 = 10'		0.22% "	= 220
50-260		0.10% "	= 2400
- 260-280 = 20'		0.28% "	560
280-300 = 20		0.15% "	300
			<hr/> 3540 : 300 = 0.11% Cu

---

PA - 15      *South Zone*

Latitude 45,900'N    Departure 23,330'E    Elevation 4,370'

Footage                                  Geology

0-300                                  Volcanics

---

Assays

0-300                                  0.02% Copper

---

PA - 16*Addit*

Latitude 47,910'N Departure 23,320'E Elevation 4,200'

FootageGeology

0-80

Overburden

PA - 17*Addit*

Latitude 47,830'N Departure 23,900'E Elevation 3,850'

FootageGeology

0-60

Volcanics

Assays

0-40

0.15% Copper

- 40-60

0.25% "

PA - 17 A*Addit Zone*

Latitude 47,830'N Departure 23,900'E Elevation 3,850'

FootageGeology

0-60

Volcanics

Assays

0-60

0.15% Copper

PA - 18*Addit*

Latitude 45,920'N Departure 24,000'E Elevation 4,030'

FootageGeology

0-20

Overburden

20-100

Granodiorite

Assays

20-100

0.04% Copper

PA - 19

*Addit*

Latitude 49,450'N Departure 24,200'E Elevation 4,070'

Footage

Geology

0-60

Granodiorite

Assays

0-60

0.005% Copper

PA - 20

*Addit*

Latitude 48,160'N Departure 24,000'E Elevation 3,800'

Footage

Geology

0-120

Volcanics

Assays

0-10

0.08% Copper

~~10-110 = 100'~~

0.33% "

110-120

0.17% "

PA - 21

*Addit*

Latitude 48,490'N Departure 24,350'E Elevation 3,760'

Footage

Geology

0-100

Volcanics

Assays

0-100

0.10% Copper

PA - 22

*Addit*

Latitude 47,950'N Departure 24,230'E Elevation 3,675'

Footage

Geology

0-220

Volcanics

Assays

0-40

0.05% Copper

~~40-170 = 130'~~

0.30% "

170-220

0.12% "

PA - 23 *Addis*

Latitude 47,450'N Departure 24,200'E Elevation 3,550'

Footage

Geology

0-60

Volcanics

---

Assays

0-60

0.02% Copper

---

PA - 24 *South Zone*

Latitude 44,200'N Departure 24,170'E Elevation 4,300'

Footage

Geology

0-350

Volcanics

---

Assays

0-270

0.29% Copper <sup>7830</sup>

270-350

0.12% " <sup>960</sup>  
<sup>8790:350 = .25</sup>

---

PA - 25 *South Zone*

Latitude 45,050'N Departure 23,700'E Elevation 4,340'

Footage

Geology

0-200

Volcanics

200-350

Diorite

---

Assays

0-200

0.14% Copper = <sup>2800</sup>

-200-230 = 30'

0.29% " <sup>870</sup>

230-350

0.12% " <sup>1440</sup>  
<sup>5110:350 = .14</sup>

---

PA - 26 *West Zone*

Latitude 51,180'N Departure 21,670'E Elevation 4,710'

Footage

Geology

0-100

Diorite

---

Assays

0-100

0.03% Copper

---

PA - 27 *West Zone*

Latitude 50,070'N Departure 21,250'E Elevation 4,690'

Footage

Geology

0-310 Volcanics

Assays

0-310 0.003% Copper

PA - 28

*West Zone*

Latitude 49,900'N Departure 21,340'E Elevation 4,600'

Footage

Geology

0-60 Volcanics

Assays

0-60 Trace Copper  
 - 60-110 = 50' 0.40% " 2000  
 110-150 = 40 0.12% " 180  
 150-350 0.01% " 2480 : 90 = .27  
 90'

PA - 29

*West Zone*

Latitude 49,950'N Departure 20,400'E Elevation 4,600'

Footage

Geology

0-210 Diorite

Assays

0-90 0.10% Copper 900  
 - 90-130 = 40' 0.24% " 960  
 130-150 = 20 0.10% " 200  
 - 150-180 = 30 0.21% " 630  
 180-210 = 30 0.12% " 360  
 3050 : 210 = .14

PA - 30

*West Zone*

Latitude 49,570'N Departure 20,650'E Elevation 4,600'

Footage

Geology

0-330 Volcanics

Assays

- 0-90 = 90' 0.32% Copper 2880  
 90-330 = 240 0.12% " 2880  
 5760 : 330 = .17

PA - 31 *West Zone*

Latitude 49,240'N Departure 20,850'E Elevation 4,600'

Footage

Geology

0-240

Volcanics

Assays

0-10	0.39% Copper	390
10-60	0.13% "	650
60-150	0.27% "	2130
150-240	0.18% "	3470 = 0.23%

PA - 32 *West Zone*

Latitude 49,150'N Departure 20,480'E Elevation 4,600'

Footage

Geology

0-330

Volcanics

Assays

0-110 = 110'	0.42% Copper	4620	5530:160 = 0.34 160'
110-160 = 50	0.13% "	650	
160-170 = 10	0.26% "	260	
170-330 = 160	0.12% "	1920	
		7450:330 = 0.22	

PA - 33 *West Zone*

Latitude 49,050'N Departure 20,200'E Elevation 4,610'

Footage

Geology

0-270

Volcanics

Assays

0-270

0.02% Copper

PA - 34

*West Zone*

Latitude 48,780'N Departure 20,550'E Elevation 4,600'

FootageGeology

0-230

Volcanics

Assays

0-50	0.02% Copper	= 100	
50-90	0.15%	"	600
- 90-230 = 140'	0.31%	"	4340
			<u>5040</u> ; 230 = .21 or <u>.180'</u>

PA - 35

*West Zone*

Latitude 47,950'N Departure 20,200'E Elevation 4,590'

FootageGeology

0-350

Volcanics

Assays

0-350

0.05% Copper

PA - 36

*West Zone*

Latitude 48,500'N Departure 20,800'E Elevation 4,610

FootageGeology

0-110

Overburden

No Assays

PA - 37

*West Zone*

Latitude 48,600'N Departure 20,500'E Elevation 4,590'

FootageGeology

0-150

Diorite

Assays

0-110	0.10% Copper	= 1100	
- 110-150 = 40'	0.22%	"	880
			<u>1980</u> ; 150 = .13



PA - 38

*South Zone*

Latitude 43,940'N Departure 24,300'E Elevation 4,300'

FootageGeology

0-180

Volcanics

Assays

0-10	0.09% Copper = 90
-10-180 = 170'	0.40% " 6800

PA -39

*West Zone*

Latitude 49,650'N Departure 21,000 Elevation 4,650'

FootageGeology

0-150

Diorite

Assays

0-40	0.08% Copper 320
-40-80 = 40'	0.26% " 1040
80-150 = 70'	0.10% " $\frac{700}{7000 \cdot 150} = .13$

PA - 40

*West Zone*

Latitude 49,280'N Departure 21,070'E Elevation 4,640'

FootageGeology

0-350

Diorite

Assays

0-350 0.05% Copper

PA-41PA---41

*West Zone*

Latitude 51,200'N Departure 20,380'E Elevation 4,800'

FootageGeology

0-330

Volcanics

Assays

0-330 0.01% Copper

PA - 42*West zone*

Latitude 48,500'N Departure 20,980'E Elevation 4,620'

FootageGeology

0-100

Overburden

No AssaysPA - 43*South Zone*

Latitude 43,350'N Departure 24,800'E Elevation 4,100'

FootageGeology

0-200

Volcanics

Assays

- 0-200 - 200' 0.30% Copper

PA - 44*South Zone*

Latitude 43,100'N Departure 24,600'E Elevation 4,060'

FootageGeology

0-130

Volcanics

Assays

0-130

0.08% Copper

PA - 45*West Zone*

Latitude 49,470'N Departure 21,100'E Elevation 4,650'

FootageGeology

0-350

Volcanics

Assays

0-90	0.13%	Copper = 1170	
- 90-100 = 10'	0.20%	" = 200	
100-140 = 40'	0.13%	" = 520	
- 140-150 = 10'	0.32%	" = 320	
150-200 = 50'	0.12%	" = 600	
- 200-210 = 10'	0.27%	" = 270	
210-240 = 30'	0.17%	" = 510	
- 240-350 = 110'	0.25%	" = 2750	
		6340 : 350 = .18	

4450 : 210 = 0.21  
210

44

PA - 46*South Zone*

Latitude 43,020'N Departure 24,600'E Elevation 4,050'

FootageGeology

0-110

VolcanicsAssays

0-110

0.05% Copper

PA - 47*West Zone*

Latitude 48,950'N Departure 20,900'E Elevation 4,630'

FootageGeology

0-210

DioriteAssays

0-210

0.08% Copper

PA - 48*Addis*

Latitude 46,720'N Departure 24,700'E Elevation 3,790'

FootageGeology

0-90

VolcanicsAssays

0-90

0.06% Copper

PA - 49*South Zone (south)*

Latitude 41,470'N Departure 23,240'E Elevation 4,180'

FootageGeology

0-90

OverburdenNo AssaysPA - 50*Addis*

Latitude 47,050'N Departure 24,400'E Elevation 3,760'

FootageGeology

0-100

VolcanicsAssays

0-100

0.03% Copper

1973 PERCUSSION DRILLING VERTICAL

P - 1      *Outside South Zone*

Latitude 43,380'N    Departure 21,350'E    Elevation 4,250'

FootageGeology

0-60  
60-110

Overburden  
Light colored granodiorite

No Assays

P - 2      *Outside South Zone*

Latitude 44,800'N    Departure 18,450'E    Elevation 4,350'

FootageGeology

0-15  
15-65

Overburden  
Light colored granodiorite

Assays

0.005% Copper

P - 3      *Outside South Zone*

Latitude 44,800'N    Departure 18,450'E    Elevation 4,505'

FootageGeology

0-20  
20-70

Overburden  
Light colored granodiorite  
Some red feldspar

Assays

0.01% Copper

P - 4      *??*

Latitude 45,000'N    Departure 16,950'E    Elevation 4,495'

FootageGeology

0-15  
15-65

Overburden  
Light colored granodiorite with red feldspar

Assays

0.004% Copper

P - 5*Outside South Zone*

Latitude 43,700'N Departure 22,400'E Elevation 4,285'

FootageGeology

0-80	Overburden
80-100	Volcanics
100-130	Light colored granodiorite

Assays

0.01% Copper

P - 6*South Zone*

Latitude 43,400'N Departure 23,200'E Elevation 4,260'

FootageGeology

0-28	Overburden
28-78	Red limy tuff

Assays

0.02% Copper

P - 7*(West Zone) outside*

Latitude 47,850'N Departure 22,000'E Elevation 4,520'

FootageGeology

0-10	Limy red tuff
10-30	Light colored diorite
30-40	Andesite
40-100	Diorite

Assays

0.01% Copper

P - 8*(West Zone) outside*

Latitude 48,880'N Departure 22,050'E Elevation 4,580'

FootageGeology

0-10	Overburden
10-50	Rusty volcanics
50-100	Dark colored volcanics

Assays

0.01% Copper

P - 9 *West Zone (outside)*

Latitude 49,850'N Departure 21,840'E Elevation 4,590'

Footage

Geology

0-20 Overburden  
20-100 Dark colored andesite

Assays

0.01% Copper

P - 10 *West zone (outside)*

Latitude 51,850'N Departure 20,980'E Elevation 4,630'

Footage

Geology

0-10 Overburden  
10-20 Dark volcanics  
20-60 Light colored diorite

Assays

0-20 0.01% Copper  
20-30 0.09% "  
30-60 0.01% "

P - 11 *Outside West Zone*

Latitude 54,200'N Departure 19,350'E Elevation 4,630'

Footage

Geology

0-10 Overburden  
10-60 Diorite - 5% pyrite

Assays

0.01% Copper

P - 12 *??*

Latitude 49,100'N Departure 15,300'E Elevation 4,650'

Footage

Geology

0-100 Diorite - 3% pyrite

Assays

0-100 0.004% Copper

P - 13

*(West Zone?)*

Latitude 48,800'N Departure 17,500'E Elevation 4,530'

FootageGeology

0-40	Overburden
40-130	Diorite light colored
130-140	Dark diorite

Assays

0.01% Copper

P - 14

*West Zone*

Latitude 49,100'N Departure 18,800'E Elevation 4,520'

FootageGeology

0-30	Dark diorite
30-110	Light colored diorite

Assays

0-10	No sample	
10-20 = 10'	0.42% Copper	120
20-110	0.02% "	180
		$\frac{180}{600} = 0.06$

P - 15

*West Zone*

Latitude 49,850'N Departure 20,850'E Elevation 4,650'

FootageGeology

0-70	Light colored diorite
70-100	Dark colored diorite
100-130	Light colored diorite
130-250	Dark colored diorite

Assays

0-10	0.42% Copper	120
10-60 = 50	0.09% "	450
60-170 = 110	0.06% "	660
170-250 = 80	0.06% "	480
		$\frac{480}{2910} = 0.08$

P - 16

*??*

Latitude 55,200'N Departure 19,150'E Elevation 4,685'

P - 16 ContinuedFootageGeology

0-10 Overburden  
10-110 Diorite - 5% pyrite

Assays

0.01% Copper

---

P - 17*North of property*

Latitude 55,000'N Departure 21,750'E Elevation 4,580'

FootageGeology

0-20 Overburden  
20-120 Dark diorite

AssaysP - 18*North property*

Latitude 55,040'N Departure 22,090'E Elevation 4,570'

FootageGeology

0-10 Overburden  
10-30 Light colored diorite  
30-40 Sand  
40-50 Light colored diorite

Assays

0.004% Copper

---

P - 19*North property*

Latitude 56,430'N Departure 22,390'E Elevation 4,610'

FootageGeology

0-10 Overburden  
10-20 Rusty volcanics  
20-50 Dark volcanics

Assays

0.02% Copper

---



P - 20

*North property*

Latitude 58,060'N Departure 22,740'E Elevation 4,590'

FootageGeology0-10  
10-110Overburden  
Dark diorite - 3% pyriteAssays

0.02% Copper

P - 21

*N. property*

Latitude 56,540'N Departure 23,890'E Elevation 4,560'

FootageGeology0-40  
40-100Overburden  
VolcanicsAssays

0.02% Copper

P - 22

*N property*

Latitude 55,640'N Departure 22,640'E Elevation 4,535'

FootageGeology0-60  
60-100White feldspathic diorite  
Light colored dioriteAssays

0.01% Copper

P - 23

*N property*

Latitude 55,600'N Departure 24,500'E Elevation 4,350'

FootageGeology0-10  
10-70Overburden  
Dark diorite - red feldsparAssays

0.01% Copper

P - 24

*N property*

Latitude 54,350'N Departure 24,320'E Elevation 4,260'

FootageGeology

0-10	Overburden
10-85	Diorite - red feldspar

Assays

0.01% Copper

P - 25

*North property*

Latitude 51,900'N Departure 22,520'E Elevation 4,350'

FootageGeology

0-10	Overburden
10-100	Light colored diorite - 5% pyrite

Assays

0.007% Copper

P - 26

*Between Added and South Zone*

Latitude 48,680'N Departure 22,840'E Elevation 4,410'

FootageGeology

0-40	Diorite
------	---------

Assays

0.01% Copper

P - 27

*Added Zone*

Latitude 48,170'N Departure 24,000'E Elevation 3,850'

FootageGeology

0-100	Rusty diorite
-------	---------------

Assays

0-10 = 10'	0.46% Copper	= 46%
10-20	0.85%	"
20-30	0.68%	"
30-40	0.28%	"
40-50	0.23%	"
50-60	0.19%	"

$$\frac{460}{100} = 4.6$$

$$\frac{46}{100}$$

P - 27 Continued

<u>Footage</u>	<u>Assays</u>
60-70	0.26% Copper
70-80	0.42% "
80-90	0.43% "
90-100	0.36% "

P - 28*Add Zone*

Latitude 48,080'N Departure 23,930'E Elevation 3,865'

<u>Footage</u>	<u>Geology</u>
0-60	Rusty dark diorite

Assays

0-10	0.22% Copper
-10-20	0.25% "
20-30	0.16% "
30-40	0.17% "
-40-50	0.21% "
50-60	0.06% "

 $\frac{.20}{50}$  $\frac{1010}{50} = .20$ P - 29*West Zone*

Latitude 49,300'N Departure 19,550'E Elevation 4,520'

<u>Footage</u>	<u>Geology</u>
0-10	Rusty diorite
10-250	Dark colored diorite

Assays

0.02% Copper

P - 30*West Zone*

Latitude 49,330'N Departure 19,800'E Elevation 4,520'

<u>Footage</u>	<u>Geology</u>
0-250	Diorite

Assays

0.008% Copper

P - 31 *West Zone*

Latitude 49,630'N Departure 19,850'E Elevation 4,525'

Footage                      Geology

0-250                      Diorite

Assays

0-250                      0.014% Copper  
220-230                      0.13%                      "

P - 32 *Addit Zone*

Latitude 48,265'N Departure 24,280'E Elevation 4,510'

Footage                      Geology

0-250                      Diorite

Assays

0-250                      0.024% Copper  
0-10                      0.11%                      "

P - 33 *Addit Zone*

Latitude 47,945'N Departure 24,270'E Elevation 3,750'

Footage                      Geology

0-146                      Diorite

Assays

0-100                      0.06% Copper  
- 100-146 = 46'                      0.31%                      "

P - 34 *Addit Zone*

Latitude 48,060'N Departure 24,130'E Elevation 3,750'

Footage                      Geology

0-200                      Diorite

Assays

0-60                      0.05% Copper *hoarding?*  
- 60-200                      0.58%                      "

P - 35 *Addit Zone*

Latitude 47,965'N Departure 24,100'E Elevation 3,800'

Footage

Geology

0-110 Andesite  
110-250 Diorite

---

Assays

0-250 0.08% Copper

---

P - 36 *Addit Zone*

Latitude 47,810'N Departure 24,150'E Elevation 3,900'

Footage

Geology

0-30 Overburden  
30-90 Andesite

---

Assays

-30-50 0.22% Copper  
50-90 0.06% "

---

P - 37 *Addit Zone*

Latitude 47,650'N Departure 24,170'E Elevation 3,800'

Footage

Geology

0-30 Overburden  
30-80 Andesite

---

Assays

30-70 0.03% Copper  
70-80 No Assay

---

P - 38

*Addit Zone*

Latitude 47,860'N Departure 24,330'E Elevation 3,790

FootageGeology

0-30	Diorite
30-110	Andesite

---

Assays

0-30	0.14% Copper
30-110	0.07% "

---

P - 39

*Addit Zone*

Latitude 48,140'N Departure 24,330'E Elevation 3,680'

FootageGeology

0-150	Diorite
150-200	Andesite

---

0-20	20'	0.045% Copper =	
20-40	= 20'	0.215% "	420
40-100	= 60	0.05% "	300
100-150	= 50	0.15% "	750
150-200		0.06% "	1470
			<u>0.11%</u> 130

---

P - 40

*Addit Zone*

Latitude 48,250'N Departure 24,370'E Elevation'

FootageGeology

0-20	Andesite
20-70	Diorite

---

Assays

0-70	0.035% Copper
------	---------------

---

P - 41

*Addit Zone*

Latitude 48,110'N Departure 24,300'E Elevation 3,690'

FootageGeology

0-50

Andesite

Assays

0-10

0.23% Copper

10-20

0.03% "

20-30

0.21% "

30-50

0.023% "

P - 42

*Addit Zone*

Latitude 48,070'N Departure 24,170'E Elevation 3,690'

FootageGeology

0-10

Overburden

10-70

Diorite

Assays

10-70

0.04% Copper

P - 43

*Addit Zone*

Latitude 47,900'N Departure 24,225'E Elevation 3,680'

FootageGeology

0-175

Andesite

Assays

0-175

0.03% Copper

P - 44

*Addes Zone*

Latitude 47,825'N Departure 24,300'E Elevation 3,670'

FootageGeology

0-185

Andesite

Assays

0-185

0.02% Copper

P - 45

*Addit zone*

Latitude 48,280'N Departure 24,420'E Elevation 3,680'

FootageGeology

0-60

Andesite

Assays

0-60

0.02% Copper

P - 46

*Addit Zone*

Latitude 48,350'N Departure 24,480'E Elevation 3,680'

FootageGeology

0-40

Andesite

Assays

0-40

0.02% Copper

P - 47

*See Addes Zone*

Latitude 48,450'N Departure 24,510'E Elevation 4,000'

FootageGeology

0-70

Overburden

70-220

Andesite

Assays

70-220

0.03% Copper



P - 48

*Addit.*

Latitude 47,780'N Departure 23,790'E Elevation 3,890'

FootageGeology0-50  
50-150Overburden  
AndesiteAssays

50-150

0.01% Copper

P - 49

*Addit Zone*

Latitude 47,920'N Departure 23,880'E Elevation 3,890'

FootageGeology0-40  
40-100Overburden  
AndesiteAssays

40-100

0.05% Copper

P - 50

*Addit Zone*

Latitude 48,300'N Departure 24,090'E Elevation 3,830'

FootageGeology

0-80

Diorite

Assays

-0-80 = 80

0.58% Copper

P - 51

*Addit Zone*

Latitude 48,300'N Departure 24,180'E Elevation 3,810'

FootageGeology

0-180

Diorite

Assays

0-180

0.13% Copper

P - 52 *Addit Zone*

Latitude 48,530'N Departure 24,110'E Elevation 3,950'

Footage

Geology

0-80

Andesite

---

Assays

0-80

0.08% Copper

---

P - 53 *Addit Zone*

Latitude 48,420'N Departure 24,020'E Elevation 3,950'

Footage

Geology

0-210

Andesite

---

Assays

0-210

0.07% Copper

---

P - 54 *Addit Zone*

Latitude 48,330'N Departure 23,960'E Elevation 3,950'

Footage

Geology

0-150

Andesite

---

Assays

0-150

0.08% Copper

---

P - 55 *Addit Zone*

Latitude 48,235'N Departure 23,880'E Elevation 3,950'

Footage

Geology

0-165

Diorite

---

Assays

0-120 0.08% Copper  
 120-165 = 45' 0.72% "

---

P - 56 *Addit Zone*

Latitude 48,100'N Departure 24,395'E Elevation 3,600'

Footage                      Geology

0-110                      Diorite

---

Assays

- 0-10 = 10'              0.24% Copper  
 10-110                      0.04% "

---

P - 57 *Addit Zone*

Latitude 48,150'N Departure 24,400'E Elevation 3,600'

Footage                      Geology

0-80                      Andesite

---

Assays

0-80                      0.04% Copper

---

P - 58 *Addit Zone*

Latitude 48,180'N Departure 24,440'E Elevation 3,600'

Footage                      Geology

0-120                      Andesite

---

Assays

0-120                      0.02% Copper

---

P - 59

Latitude 42,750'N Departure 24,580'E Elevation 3,480'

Footage                      Geology

0-70                      Diorite

---

Assays

0-30                      0.11% Copper  
~~30-70 = 40'              0.25%~~

---

P - 60*Addit Zone*

Latitude 48,050 'N Departure 24,330'E Elevation 3,630'

FootageGeology

0-100

Diorite

Assays

0-100

0.04% Copper

P - 61*Addit Zone*

Latitude 48,000'N Departure 24,310'E Elevation 3,630'

FootageGeology

0-20

Overburden

20-90

Andesite

Assays

20-90

0.04% Copper

P - 62*Addit Zone*

Latitude 47,950'N Departure 24,300'E Elevation 3,639'

FootageGeology

0-10

Overburden

10-45

Andesite

Assays

10-45

0.02% Copper

P - 63*Sand Zone*

Latitude 45,710'N Departure 24,250'E Elevation 4,220'

FootageGeology

0-70

Andesite

70-300

Diorite

P - 63 Continued

*South Zone*

<u>Footage</u>	<u>Assays</u>	
0-80	0.09% Copper	=
- 80-100 = 20'	0.33%	" = 660
100-170 = 70	0.17%	" = 1190
170-290 = 120	0.14%	" = 1680
- 290-300 = 10	0.24%	" = 240
		<u>3770</u> 290 = $\frac{17}{220}$

P - 64

*South Zone*

Latitude 45,600'N Departure 24,365'E Elevation 4,200'

<u>Footage</u>	<u>Geology</u>
-0-75	Diorite

Assays

0-10	0.08% Copper	80
10-75	0.42%	" 2730
		<u>2810</u> : 75

P - 65

*South Zone*

Latitude 45,600'N Departure 24,515'E Elevation 4,160'

<u>Footage</u>	<u>Geology</u>
0-20	Overburden
20-300	Diorite

Assays

20-40 = 20	0.17% Copper	= 340
40-150 = 110	0.04%	" 440
150-160 = 10	0.19%	" 190
160-180 = 20	0.03%	" 60
- 180-190 = 10'	0.36%	" 360
190-300	0.05%	" 1390
		<u>170</u> = $\frac{0.08\%}{176'}$

P - 66      *South zone*

Latitude 45,520'N    Departure 24,025'E    Elevation 4,150'

Footage                      Geology

0-30                      Overburden  
30-300                  Andesite

---

Assays

(30-80 = 50      0.11% Copper  
30-300            0.05%        "

---

P - 67      *South Zone*

Latitude 46,140'N    Departure 24,120'E    Elevation 4,120'

Footage                      Geology

0-5                      Overburden  
5-60                      Andesite

---

Assays

5-60                      0.08% Copper

---

P - 68      *South Zone*

Latitude 46,070'N    Departure 24,200'E    Elevation 4,120'

Footage                      Geology

0-85                      Andesite

---

Assays

0-85                      0.07% Copper

---

P - 69      *South Zone*

Latitude 45,990'N    Departure 24,260'E    Elevation 4,120'

Footage                      Geology

0-80                      Diorite

---

P - 69 Continued

*South Zone*FootageAssays

0-30 = 30'	0.09% Copper	
-30-40 = 10'	0.22% "	220
40-70 = 30'	0.07% "	210
70-80 = 10'	0.24% "	240
		<u>670</u> : 59

P - 70

*South Zone*

Latitude 49,910'N Departure 24,315'E Elevation 4,120'

FootageGeology

0-10	Overburden
<u>10-145</u>	Diorite

Assays

-10-145	0.25% Copper
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P - 71

*South Zone*

Latitude 45,860'N Departure 24,310'E Elevation 4,120'

FootageGeology

<u>0-100</u>	Diorite
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Assays

- 0-100	0.70% Copper
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P - 72

*South Zone*

Latitude 45,830'N Departure 24,510'E Elevation 4,120'

FootageGeology

- 0-100	Diorite
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Assays

- 0-70 = 70'	0.45% Copper =	3150
70-100	0.15% "	450
		<u>3600</u> : 100 = <u>0.36</u> 100'

P - 73 *South Zone*

Latitude 45,780'N Departure 24,630'E Elevation 4,100'

Footage

Geology

0-100

Diorite

Assays

*12* {  
-0-10  
10-100

0.21% Copper = 210  
0.11% " 990  
1200

P - 74

*South*

Latitude 45,750'N Departure 24,630'E Elevation 4,080'

Footage

Geology

0-70

Andesite

Assays

-0-40  
40-70

0.23% Copper  
0.09% "