

801324  
Indian Chief

D.D.H. No. U-1  
LOCATION No 1 Tunnel  
Indian Chief  
SECTION \_\_\_\_\_

mt. - magnetite  
ep. - epidote  
qs. - greenstone (chlo. volcs.)  
gtt. - garnetite  
vles. - volcanics  
chty - cherty  
meo. - massive  
cpy - chloropyrite

**DIAMOND DRILL LOG**

LATITUDE N. 55 15  
DEPARTURE E 46 45  
ELEVATION Cal. 1772 approx.  
STARTED July 14/63  
COMPLETED July 21/63  
V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

BEARING N 40° E DEPTH 170'  
DIP + 18° ; Collared & drilled to test zone above stann bed in No. 1 Tunnel horizon.

DIST.	GENERAL GEOLOGY	% CU.	% FE.	OZ. AG.	% MO S <sub>2</sub>	SAMPLE		FOOTAGE <i>(Core Rec)</i>	ECONOMIC GEOLOGY <i>(Core Recovery)</i>
						FEET	NUMBER		
0 - 2.2'	Reddish sh. w. green chlo. patches & bands; Sp mt. - Ep.							40° @ 21'	
- 5.0'	Mixed qz. & sh.; minor f. qz. mt. w. tr. Cu.	0.75	40.8			Core 5'-10'	2763		0'-24.5' = 24/24.5
- 22.5'	Dirty ep - gtt sh. w. considerable bands & patches mt.; loc. fair patchy Cu.	0.22				" 10-15'	64		
- 37'	Green & brown sh. w. qz. & chlo. - ep.; loc. minor mt. w. tr. Cu.	0.10	17.80			" 15-22.5'	65	45° @ 20'	27-37' = 6'/10'
- 46'	Mixed gtt - ep. sh. w. minor qz. Sp. mt. & tr. Cu.							20° @ 40'	37'-46' = 8'/9'
- 62.5'	Mixed sh. w. qz. & ep - gtt. sh. w. minor mt. & tr. Cu. only	0.35	7.20			Core 62.5-72'	2766		46-62.5' = 11.5/16.5
- 82'	Yellow-green ep - gtt sh. w. fair patchy & dissem. mt.; Sp. w. tr. Cu.	0.17				" 72-82'	67	20° @ 58'	62.5-82' = 18.5/20'
- 98'	Green soft broken core of mixed yellow ep - sh. & alt. qz. Sp. dissem. mt. & tr. Cu. only.					SL 85-95'	2771	Cancelled.	
- 106'	Sil. qz. w. minor sh. patches w. tr. Cu. - tr. dissem. mt. only.					SL 95-100'	72	"	
- 117'	Highly broken & soft yellowish ep - sh. w. patchy sp. patches & dissem. mt. Tr. w. tr. Cu.	0.20				SL 100-110'	73	35° @ 64'	82-98' = 10/16'
- 141'	Soft yellow-green ep (minor gtt) sh.	0.12						40° @ 75'	98-106' = 7/8'
- 148'	Slightly sil. qz. w. frag. chert ep. bands & patches. Sp. mt. only in seams.	0.10				SL 119-130'	2774	Cancelled.	
170'	Black sp. ep - gtt sh. w. fl. - brown, green & yellow mottling. Sparse dissem. mt. ore sects. w. ep. dissem. f. qz. cpy. w. hard - lens.	0.12				SL 130-140'	75	35° @ 100'	106-117' = 6.5/11'
		0.10				" 148-155'	2768	45° @ 120'	117-141' = 12.5/24'
						" 155-162'	69	40° @ 135'	141-148' = 6.5/8'
		0.10				" 162-170'	70	40° @ 147'	148-160.5' = 11.0/12.5'
		0.20				AL 110-119'	2777	30° @ 167'	160.5-170' = 8.5/9.5'
								50° @ 169.5'	

Complete but some numbers missing

Summary - Major mineralized bed @ No. 1 Tunnel horizon. Upper beds show heavy sp. leaching. (w. possibility of enrichment @ depth?)  
MATCH  
DRILLING CONTRACTOR  
ENGINEER

~~CANAM COPPER CO. LTD.~~  
DIAMOND DRILL LOG

D.D.H. No. U-2 Cont'd.

LOCATION \_\_\_\_\_

SECTION INDIAN CHIEF

LATITUDE \_\_\_\_\_

STARTED \_\_\_\_\_

BEARING \_\_\_\_\_ DEPTH \_\_\_\_\_

DEPARTURE \_\_\_\_\_

COMPLETED \_\_\_\_\_

DIP \_\_\_\_\_

ELEVATION \_\_\_\_\_

V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

DIST.	GENERAL GEOLOGY	% CU.	% AU FE.	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE Core + Dog.	ECONOMIC GEOLOGY CORE RECOVERY
						FEET	NUMBER		
83-96	Pale gray, loc. pinkish, siliceous gr. No mineral.							45° @ 96'	@ 88-96 = 13/13
-99 <sup>±</sup>	Greenstone, loc. cherty - showing act'n w. no. vls. mineral.								@ 96-99 <sup>±</sup> = 2/3.5
-108 <sup>±</sup>	Crumbled pale greenish cherty gr. + cherty greenish shales; Fair sp. - porphyry (mainly in cherty gr. vlt's) @ 102'-107'	0.05				Core 102- 107	2787		@ 99 <sup>±</sup> -108 <sup>±</sup> = 7.5/9.
-113	Mottled greenish white cherty vlt's. No copper min.							30° @ 112'	@ 108 <sup>±</sup> -113 = 3.5/4.5
-118	Greenish sp. mt shales. Tr. vls. Cu; fair mt.	0.10	7.00			Core 113- 118	2788		@ 113-118 = 5/5
-120	Cherty shales; sp. mt - Cu.								
-125	Thin banded shaly gr. w. fair mt. + some v. fr. Cu mineral.	0.50	6.40			Core 120- 125	2789	50° @ 122' + 129'	@ 120-125 = 5/5
-127 <sup>±</sup>	Very cherty white to greenish gr. w. sp. mt. vls. only.	0.85	7.80			Core 127 <sup>±</sup> -133	2790		@ 125-127 <sup>±</sup> = 2.3/2.5
-133	Thin banded shaly gr. w. fair mt. + some v. fr. Cu.							35° @ 137'	@ 127 <sup>±</sup> -133 = 5/5.5
-141	Slightly cherty gr; sp. min.								@ 133-141 = 7.5/8
-144 <sup>±</sup>	Sp. gr. shales sp. min.								@ 141-144 <sup>±</sup> = 3/3.5
-160	Gray to white sand banded mottled sh.							55° @ 149'	@ 144 <sup>±</sup> -160 = 15/15.5
END								45° @ 158'	

~~CANAM COPPER CO. LTD.~~  
DIAMOND DRILL LOG

D.D.H. No. V-2 Sheet 1  
LOCATION No. 1 Tunnel  
Indian Chief  
SECTION \_\_\_\_\_

LATITUDE N 5540  
DEPARTURE E 4620  
ELEVATION Cal. 1772 approx

STARTED July 21/63  
COMPLETED July 26/63  
V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

BEARING N 32E DEPTH 160'  
DIP +35°

DIST.	GENERAL GEOLOGY	% CU.	% Fe	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE	ECONOMIC GEOLOGY	
						FEET	NUMBER		CORE #	RECOVER.
0'-3'	Shaly ss w good mt. & some vis Cu.									@ 0-3' = 1.8/3
-5.5'	Con. pale cherty ss w minor less siliceous mt. V. sp. dense mt. & to Cu. visible.	0.30	-			Core 9-15	2778			@ 3-5.5' = 2.3/2.5
-9'	Muddy siliceous ss neg. mt. Cu.					" 15-20	- 79	Cancel.		@ 5.5-9 = 2.5/9.5
-11'	Mottled shaly ss w sp. dense mt. Cu.	0.20	12.00			" 20-27	- 80		40° @ 11'	@ 9-11 = 2/2'
-13'	Dark green ss - No vis minor.	0.22				sl. 0-10	- 85			@ 11-13 = 2/2
-27'	Mixed dirty shaly & slightly cherty ss. Coarse dense mt w 1" mar. Some Cu in f. sp. mt.	0.10				sl. 30-60	- 86		55° @ 21'	@ 13-27 = 12.5/14'
-31.5'	Gt. shaly w fine patchy mt. w some minor f. sp. Cu.	0.10				Core 27-32	2781			@ 27-31.5 = 4.2/4.5
-33'	Slightly shaly ss No vis minor.	0.10				Core 32-37	- 82			@ 31.5-33 = 1.5/1.5
-53'	Fairly solid coarse gt. shaly w occ. bands of fine dense mt. & upper minor f. sp. Cu visible.	0.18				" 37-42.5	- 83			@ 33-53 = 19/20
-69'	Ditto but highly porous.					" 44.5-51.5	- 84		70° @ 35'	@ 53-69 = 10/16
-74'	Darkish purplish gray to green cherty v. less; some sp. same w. sp. mt.; No vis Cu.									@ 69-74 = 5/5'
-83'	Dark speckled soft yellow sp. (minor gt.) shaly; 4" mar. mt. @ 76'; con. sp. mt.; to Cu.								30° @ 78'	@ 74-83 = 5/9'

MOTCH.  
DRILLING CONTRACTOR

WMA.  
ENGINEER

**CANAM COPPER CO. LTD.**  
**DIAMOND DRILL LOG**

D.D.H. No. U-3  
LOCATION No 1 Tunnel  
INDIAN CREEK  
SECTION \_\_\_\_\_

LATITUDE N. 5552. - check col. location <sup>5542?</sup> STARTED July 26/63  
DEPARTURE E. 4615 COMPLETED July 29/63  
ELEVATION Cal. 1772' APPROX. V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

BEARING South DEPTH 83'  
DIP +65°

DIST.	GENERAL GEOLOGY	% CU.	% ALI FE	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE CUTTING LOG	ECONOMIC GEOLOGY CORE RECOV.
						FEET	NUMBER		
0'-10'	Dusty skarn w strong mt & some vis druse Cu	0.80	34.40			Core	0-5	2791	0'-10' = 7'/10'
10'-19'	Rather ep-af. mt skarn; some vis Cu.	0.90	30.80			Core	5-10	2792	10-19 = 8/9
		0.32	13.60			"	10-15	-93	19-29 = 8/10
-29'	Green mnt. w some vis a few druse ep-af. hornbl.	0.15	14.20			"	15-20	-94	29-30 = 1/1
-30	Fresh gne; sp. min.	0.12	47.00			"	20-25	-95	30-46 <sup>E</sup> = 16/16 <sup>E</sup>
-46 <sup>E</sup>	Slightly siliceous gne; no vis min.	1.05	50.80			"	25-29	-96	46 <sup>E</sup> -52 = 5/5.5
-52	Ep-skarn w fair patchy mt. & sp. vis Cu.	2.47	28.80			"	30-33	-97	52-56 = 3.5/4
-56	Fresh dark gne. Sp grains mt. only.	0.40	17.20			"	46 <sup>E</sup> -52	-98	56-61 = 4/5'
-61	Epichlorid gne w 2' mnt. mt. w good ep-af. mnt. hornbl.	1.50	16.60			"	61-67 <sup>E</sup>	2800	61-67 <sup>E</sup> = 4.8/6.5
-67 <sup>E</sup>	Sp. w. 1' mnt. mt. w strong hornbl. - ep.	0.25	42.045					1701	67-76 = 6/8.5'
-70		0.55	6.20			"		-02	70-83 = 5/7'
-76	Lightly-planchid gne w minor sericite & patches mt. No Cu	0.37	-			SL	10-20	1703	
-83	Gravel only; recovery ep-gdt- mt skarn w good mnt. ep-af. hornbl.; make blue to surface.	0.45	-			SL	50-60	-04	
		1.17	-			SL	60-70	-05	
		0.35	-			SL	70-80	-06	

END

*Mutab*  
DRILLING CONTRACTOR

*W.M.S.*  
ENGINEER

**CANAM COPPER CO. LTD.**  
**DIAMOND DRILL LOG**

D.D.H. No. U-4  
LOCATION No. 1 Tunnel  
Indian Chief  
SECTION \_\_\_\_\_

LATITUDE N 5552

STARTED July 30/63

BEARING NORTH DEPTH 81'

DEPARTURE F 4582

COMPLETED Aug 2/63.

DIP + 70°

COL. ELEVATION 1772' Approx

V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

DIST.	GENERAL GEOLOGY	% CU.	% Fe.	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE CORED LOG	ECONOMIC GEOLOGY CORE RECOVERY
						FEET	NUMBER		
0'-3.5'	dk. green, f. sp. thin-bedded tuff Trace cpy in seams.	0.30				22-	1707	60° @ 3'	3.5' / 3.5'
						26 1/2			
-6.0	Pinkish gray + green cherty- shaly tuffs; thin seams mt. chly.	0.08	10.40			26 1/2-	1708		2.5 / 2.5
						-33		65' @ 22'	15 1/2 / 16
-22.0	dk. green thin-bedded tuffa w. freq. siliceous sections; mar. mt. w cpy seams @ 8 1/2 - 9 1/2'	0.27	36.0			35-	1709		
						38 3/4			
-26 1/2	cherty thin bedded sp. freq. thin seams cpy; sp. mt.	0.11	-			43	1710	60° @ 28'	4.5 / 4.5
						-47			
-33	g. sh. shaly w. fair - dissem. to mar. mt. w some vis. Cu.	0.30	19.20			30-40	1711		5.0 / 6.5
-35	thin bedded cherty sp.; tr. cpy in seams.	0.08	-			50-60	1712		2 / 2
-38 1/2	rather mar. mt. w. Ep-skarn Some vis. Cu.	0.10	-			53-58	1812		2.5 / 3.3
		0.18				61-66	1813		8.5 / 8.7
-47	mainly Ep-act. skarn w. gen sp. mt. occ. thin mar. bands. Some vis. Cu.	0.20				66-71	1814		
		0.25	21.20			60-70	1815	60° @ 51'	6 / 6'
-53	rather dense sp. freq. cherty bands; minor gtt. skarn, v. sp. mineral.	0.20				70-81	1816		8.5 / 11.5
-64 1/2	rather ox. gtt-sk. + sp. v. sp. min. incl. sp. mt.								
-75 1/2	rather ox. gtt-sk. w. consid. mt. as mar. bands + clots.							60° @ 80'	9.5 / 11.0'
-81	mainly chity-sp. w. minor ox. shaly sects. No vis. mineral.								4' / 5.5'

END

MUTCH  
DRILLING CONTRACTOR

M. M. Sharp  
ENGINEER

~~CANAM COPPER CO. LTD.~~  
DIAMOND DRILL LOG

D.D.H. No. U-5  
LOCATION INDIAN CHIEF  
No. 1-A TUNNEL  
SECTION \_\_\_\_\_

Loc. LATITUDE 5582 N.  
" DEPARTURE 4795 E.  
" ELEVATION 1753 APPROX.

STARTED AUG. 3, 1963  
COMPLETED " " "  
V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

BEARING N60E DEPTH 61'  
DIP +40°

DIST.	GENERAL GEOLOGY	% CU.	OZ. AU.	OZ. AG.	% MOS <sub>2</sub>	SAMPLE		FOOTAGE CORE & BPG.	ECONOMIC GEOLOGY CORE RECOVERY.
						FEET	NUMBER		
0'-4'	Brown gtt skarn w. occ. fine patches Mt.; No vis. Cu.	0.12				Core	0'-5'	1817	3.5'/4'
-14'	rather soft-chlor. sugary gr.; minor shamy alt'n.; sp. dinner Mt. only.	0.05				"	5'-10'	1818	5'/10'
		0.08				"	10'-15'	1819	3'/3'
-17'	Harder faintly brownish gr. (sl. shamy) Tr. mnd'n only.	0.05				"	15'-20'	1820	3'/3'
		0.12				"	42-47	1821	
-20'	Mixed ep-gtt. skarn + shamy gr.; vis. sp. Mt. only.	0.05				"	54-61	1822	
		0.10	880			Sl.	0'-10'	1823	55° @ 21'
-42'	Dark gray-green hard fresh gr. No vis. mnd'n.	0.15				All	10-20	1824	60° @ 35'
		0.05				All	20-30	1825	0.2'/1'
* -43'	Frag'l. core of shamy gr. w. good Mt. sp; low recoveries.	0.12				All	30-40	1826	
-45'	Dark slightly shamy gr. w. low rusty Mt. + Tr. Cu.								1.0'/2'
-47'	Reddish gtt-micro ep-skarn w. sp Mt. + No vis. Cu.								1.5'/2'
-61'	Mixed yellow-green ep-gtt. skarn, occ. spots Mt. only.								10'/14'
<u>END</u>									

MOTCH  
DRILLING CONTRACTOR

W.M. Sharp  
ENGINEER

**CANAM COPPER CO. LTD.**  
**DIAMOND DRILL LOG**

D.D.H. No. U-6  
LOCATION \_\_\_\_\_  
No 1-A TUNNEL  
SECTION INDIAN CHIEF.

COLL. LATITUDE 5738 N.  
" DEPARTURE 4690 E.  
" ELEVATION 1755 APPROX.

STARTED AUG 4, 1963  
COMPLETED AUG 7, 1963.  
V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

BEARING N45°E DEPTH 198'  
DIP +60°

DIST.	GENERAL GEOLOGY	% CU.	OZ. FE.	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE <u>Core, B.D.G.</u>	ECONOMIC GEOLOGY <u>CORE RECOVERY.</u>
						FEET	NUMBER		
0-4.5'	Dark, (loc. siliceous patches) gp. No vis. mineral.	0.65			Sl.	0'-10'	1832		4.5' / 4.5'
-11'	Mixed gp. + dirty ep - gtt skarn Fair Mt.; Tr vis. Cu. - r. f. gp.	1.70	9.70		Low	7'-11'	1866		6.5' / 6.5'
-17.5'	Mixed ep - gtt skarn + skarny (buff) gp.; Sp Mt.; minor Cu skarn.	0.32			Sl.	10'-20'	1833		6.2' / 6.5'
-28'	Green fresh dark gp. w. loc. alt. bands, patches & along seams. No vis. mineral.	0.57			Low	11'-17'	1867		10.3' / 10.5'
-35.5'	Mixed gp. + skarn; No vis. mineral.	0.25			Sl.	20'-30'	1834		7' / 7.5'
-49'	Dark gp. w. occ. skarny bands No vis. mineral.	0.13			Sl.	50'-60'	1835		12' / 13.5'
-65'	Red Kal ls., minor dark bands; No vis. mineral.	0.08			Sl.	60'-70'	1836	60° @ 54'	16' / 16'
-81.5'	Green lamy tuff, occ. thin Mt. bands; No vis. Cu.	0.15			Sl.	90'-100'	1837	55° @ 61'	16.5' / 16.5'
-93.5'	White Kal ls. w. minor gp. bands & occ. thin Mt. bands. No vis. Cu.	0.20		*	Sl.	160'-170'	1842	50° @ 84'	12' / 12'
-101'	Compact fresh gp. No mineral.	0.17			Sl.	170'-180'	1843		7.5' / 7.5'
-161'	Gray mottled alt. white Kal ls. w. minor gp. bands. Minor confined to minor alt-skarny bands. Skarn @ 112.5 - 116.5' Sp. Mt. alt. skarny 138.5 - 140.5 144 - 146	0.10			Sl.	190'-198'	1844		5.9' / 6.0'
-176'	OK. porous gtt-ep skarn. Sp. dissolve (hard lens) Mt. only.	tr.			Low	161 - 168.5'	1870	35° @ 125'	9' / 15'
-194.5'	rather fresh fine gp. No vis. mineral.								15.2' / 17.5'
-198'	Strongly-weathered ep-sk. + gp. No vis. mineral.	0.13					1868		
		0.30					1869		
END									

MUTCH  
DRILLING CONTRACTOR

*W. M. Sharp*  
ENGINEER

# DIAMOND DRILL LOG

D.D.H. No. U-10  
 LOCATION '1640' EL TUNN.  
 SECTION INDIAN CHIEF

Cor. LATITUDE 5446 N.  
 " DEPARTURE 4970 E.  
 " ELEVATION 1648 APPROX.

STARTED AUG. 8, 1963  
 COMPLETED AUG. 13, 1963  
 V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

BEARING N60E DEPTH 175'  
 DIP +22°

DIST. <sup>1</sup>	GENERAL GEOLOGY	% CU.	% PE.	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE <i>CORE, BUL.</i>	ECONOMIC GEOLOGY <i>COKE RECOVERY.</i>
						FEET	NUMBER		
0'-26 <sup>2</sup>	GEN. OX. SKARN w minor gr. + loc. fair mt.; Minor via Cu.	0.30			SL.	0-10	1845		12' / 26.2'
-29'	Red cherty gr.; Sp. Mt-Cu.	0.70			SL.	10-20	1846	N/A.	1.2' / 2.8'
-38'	Rather weak skarn w loc. fair mt-Cu @ 35'-37'	0.55			SL.	20-30	1847		* 6.5' / 19'
-52'	Red cherty gr.; Tr. minor.	0.60			SL.	30-40	1848		* 9' / 14'
* -54'	Ox. gtt-mt. skarn; loc. fair gr.; gen. good Cu stains.	0.25			SL.	40-50	1849		* 1.3' / 2'
-58'	Cherty gr.; Minor skarn only. * <u>LOST WATER @ 65'</u>	0.57			SL.	50-60	1850		* 2.5' / 4'
* -71'	Ox. gtt-mt. skarn; loc. good mt-Cu	0.23			Core	3 1/2 - 7 1/2	1851		* 7.5' / 13'
-81'	Sharry gr. to fresh unalt. gr. Cu. sp. mt. + Tr. Cu.	0.16			"	11 1/2 - 15	1852		* 6.5' / 10'
-87'	Frag. only of ox-gtt skarn w minor mt. + Sp. Cu.	0.40			"	15-20	1853		* 4.5' / 6'
-89'	Fresh sharry gr.; No mineral.	0.40			"	20-26 1/2	1854		* 1.5' / 2'
-91'	Broken gtt. skarn; Fair mt-Cu	2.35			"	29-35	1855		1.6' / 2'
-111'	Broken gtt. skarn; Fair mt-Cu	0.90			"	35-37	1856		1.6' / 2'
-116'	Lightly alt. gr.; Sp. mineral. loc. skarn sects w mt-Cu.	1.23			"	52-56	1857		18' / 20'
-118'	Frag. sharry gr.; loc. skarn-mt. w. occ. Cu stains.	1.80			"	58-65	1858		* 4' / 7'
-133'	Frag. broken gr.; loc. skarn-mt. w. occ. Cu stains.	0.40			"	65-71	1859		* 8' / 15'
-173 <sup>2</sup>	Broken ox-skarn + minor gr.; loc. fair Cu.	0.15			"	147-154	1874		* 14.5' / 40.5' MT. PROBLEMS ONLY.
-175'	Rather firm siliceous alt. gr.	Tr.			"	154-160	1875		
		Tr.			"	160-167	1876		
		Tr.			"	167-173 1/2	1877		1.5' / 1.5'

END

NOTCH

DRILLING CONTRACTOR  
 Summary \*

Water loss + low core recover. not favorable for further exp. hole drilling to this target area (vic. of this hole).

ENGINEER  
 M.M.A.



# DIAMOND DRILL LOG

D.D.H. No. U-11  
 LOCATION No 2 LEV-S.E.  
 PRIET, ; INNER STONE  
 SECT.  
 SECTION INDIAN CHIEF

COL. LATITUDE 5723 N. STARTED AUG 14, 1963.  
 " DEPARTURE 4935 E. COMPLETED AUG 21, 1963.  
 " ELEVATION 1585 approx. V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

BEARING N.45E DEPTH 160'  
 DIP +60°

DIST.	GENERAL GEOLOGY	% CU.	% Fe	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE CORE LOG.	ECONOMIC GEOLOGY CORE RECOVERY.
						FEET	NUMBER		
0'-24 1/2'	Fm. hard fresh qz. w loc. silic. alt. sects.								± Full.
-30 1/2'	Ep-sk. w minor qz. sects; gen rather sp. dense mt. + sp. Cu.	0.52				60-70	1892	50°@27'	± full.
-48'	Mixed silic. to shaly qz. w. occ. thin bands mt.; sp. via. Cu.	0.22				70-80	1888	40°@29' 75°@34' 70°@41'	10.5/11.5
-57'	Pale greenish white cherty qz. Pale green speckled; no vis. min.	0.15				80-90	1889	60°@46'	9'/9'
-58'	rather mar. mt. w shaly qz; Fair cpy.	0.20		Comp sl.		100-130	1891	↑	
-60 1/2'	Cherty qz.; occ. thin mt. bands	0.45		Co Core		76-80	1880	↑	0.4/1.0'
-70'	Silic shaly qz.; Fair dissem. mt. (fair patches) + occ. mar. thin bands; minor min. only.	0.60		Core		80-85	1881		2'/2.2'
-89 1/2'	Pale yellowish-white cherty shaly Fair to concid. of qz. dissem. mt. w some fine dissem. cpy.	tr		Core		90-95	1883	60°@85'	6.8/9.8'
-101'	weathered, pitted ep. shaly w. minor cherty sects; Co sp. dense mt. + occ. cpy.	tr		Core		95-101	1884	± Contact.	15.5/19.5'
-101'		tr		Core		101-106	1885		5'/11.5' ←
-101'		0.40		Core		106-115	1886		
-129'	Highly ep-weather. Ep-gst shaly w. app. cold 'cat' replacement; a few specks resid. cpy. only.	tr		Core		111 1/2 - 116 1/2	1887	Fluxion/rolls	26'/28'
-138'	Gray-banded, weathered tal. la w sp. mt.; sp. dissem. cpy @ 138'							80°@131'	8.5'/9'
-146'	Hard silic. qz; no min.							80°@55° @138'	7.5'/8'
-147 1/2'	Sil. qz.; minor cherty la; Fair mt. + tr. Cu.							35°@147'	0.8/1.5'
-160'	Broken (to gravelly) cherty qz. No min.								9.0/12.5'

END

MATCH.  
DRILLING CONTRACTOR

MMS.  
ENGINEER

**CANAM COPPER CO. LTD.**  
**DIAMOND DRILL LOG**

D.D.H. No. U-12  
LOCATION At end of main  
steps dr. N. of S. fault  
SECTION INDIAN CHIEF

Col. LATITUDE 5997 N. STARTED Aug. 22, 1963.  
" DEPARTURE 4682 E. COMPLETED \_\_\_\_\_  
" ELEVATION 1589' APPROX V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

BEARING N45°E DEPTH 296'  
DIP +60°

DIST.	GENERAL GEOLOGY	% CU.	% Fe	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE	ECONOMIC GEOLOGY CORE RECOVERY.	
						FEET	NUMBER			
0'-5'	ETT-Mt. skarn; slightly op w. 5 para dissemin. Cu.	0.05	12.00			Core	0'-4.5'	1893	40° @ 13'	4'/5'
-16 <sup>3</sup>	Dark ga; 18" cherty w 9" Mt.-Cu @ 8"	0.95	19.10			"	16 <sup>3</sup> -22 <sup>3</sup>	1894		11'/11.3'
-22 <sup>3</sup>	Skarny ga. w. good mt. + consid. dissemin. cpy.					Sl.	0-10	1895		5.8'/6'
-29 <sup>1</sup>	Dark ga; few cherty bands + patches					Sl.	10-20	1896		6.5'/7.2'
-32 <sup>1</sup>	mt-gtt skarn w. good cpy - porrite	1.95	19.40			Core	29 <sup>5</sup> -32 <sup>5</sup>	1897		3'/3'
-35 <sup>1</sup>	Dark bleached ga; No mt.	1.20	18.90			"	35 <sup>5</sup> -43	17001	60° @ 47'	3'/3'
-47 <sup>1</sup>	mt-gtt skarn w. good cpy - porrite	1.85	35.70			"	43-47	17102		10'/12'
-84	Fresh ga; 6" Mt-Cu @ 60'; 12" skarn w spots Cu @ 66'-67'; 3" mt @ 71'	1.32				Sl.	30-40	17103	70° @ 92'	36'/36.5'
-102	Sl. to slightly skarny ga w. occ. spots mt + tr. Cu.	1.03				Sl.	40-50	17104		18'/18'
-115	Core fresh ga; No mineral.	0.06				Sl.	110-120	17105		13'/13'
-116 <sup>5</sup>	Strong mt speckled w ep. tr. vein Cu.	tr.				Sl.	120-130	17106		13'/15'
-120 <sup>5</sup>	Skarny ga; minor dissemin. mt.	0.05	21.80			Core	121-128 <sup>5</sup>	17122	75° @ 128'	4'/4.3'
-128 <sup>5</sup>	Striped fair mt skarn + minor skarny ga; consid. blue irridescence in mt (f.g. porrite) sludge neg.									7.5'/7.7'
-132	Slightly skarny ga.									3.5'/3.5'
-147	Fresh ga - no mineral.									14'/15'
-296	Gray-white Kal. ls, minor ga; slightly weath. ep. skarn bed @ 222'-231 <sup>1</sup> / <sub>2</sub> '; tr. Cu only.								45° @ 232'	145'/149'

MOTCH.  
DRILLING CONTRACTOR

W. M. Skarp  
ENGINEER

~~ANAN COPPER CO. LTD.~~  
DIAMOND DRILL LOG

D.D.H. No. U-14  
LOCATION \_\_\_\_\_  
SECTION \_\_\_\_\_

Loc. LATITUDE N. 6243  
Loc. DEPARTURE E. 4955  
Loc. ELEVATION 1592' APPROX.

STARTED SEPT. 11/63  
COMPLETED SEPT. 13/63  
V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

BEARING N.E. DEPTH 54'  
DIP +60°

DIST.	GENERAL GEOLOGY	% CU.	OZ. AU.	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE <del>CORE ABG L</del>	ECONOMIC GEOLOGY <del>CORE RECOVERY</del>
						FEET	NUMBER		
0'-10'	Fresh gn.; loc. bleaching.							80°@3'	10'/10'
10-14½	Slightly alt-gn. w. consid. dissem mt. + loc. fair porphy in spots.								4.5'/4.5'
14½-22	white Kal. ls; Few thin mt. bands.					No			
22-27	Stearny gn. w. fair dissem + bands mt., V. sp. Cu.					SAMPLES		85°@19'	7.5'/7.5'
27-32	Fresh gn.					TAKEN.			5'/5'
32-33½	Sil mt-stearny, 50% MT. Tr. Cu only.								5'/5'
33½-54	Gen. fresh gn. 6" mt-stearny @ 38'; 1' @ 47½-48½; 1.5' @ 52'-53½.							80°@39'	1.3'/1.5'
END									19'/20.5'

MATCH.  
DRILLING CONTRACTOR

N.M. Skarp.  
ENGINEER

# DIAMOND DRILL LOG

D.D.H. No. U-15  
 LOCATION Col. @ 20' back  
from face 2-N.  
 SECTION 1-C. - To test Panel  
BELOW N. SIDE WORKINGS.

Col. LATITUDE 6477 N. STARTED AUG. 31/63.  
 " DEPARTURE 4856 E. COMPLETED SEPT. 9/63.  
 " ELEVATION 1594' APPROX. V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

BEARING N23W DEPTH 272'  
 DIP +60°; Adjusted To Expedite  
Drilling.

DIST.	GENERAL GEOLOGY	% CU.	OZ. AU.	OZ. AG.	% MOS <sub>2</sub>	SAMPLE		FOOTAGE <del>CORE, B.D.G.</del>	ECONOMIC GEOLOGY <del>CORE RECOVERY.</del>
						FEET	NUMBER		
0-64 <sup>2</sup>	Pale, m. gr. granite.	0.12			Sl.	110-120	17108		Full.
-97	partly recrystall. (meta-di) qs. w. alt'n decreasing upward of contact.	0.27			Sl.	120-130	17109		
-109	inter banded recryst. & f. gr. fresh qs.; Negligible min'l'ls.	0.53			Sl.	130-140	17110		Full.
-117 <sup>2</sup>	Rather broken, partly-silic. qs. 1 ft. skarn w. Cu @ 110'-111'	0.24			Sl.	140-150	17111		± Full.
-117 <sup>2</sup>	Rather broken, partly-silic. qs. 1 ft. skarn w. Cu @ 110'-111'	1.00			Sl.	150-160	17112		
-120 <sup>2</sup>	Sil. to slightly stannous qs. w. dec. fair porphyry in close fracts.	0.20			Sl.	200-220	17115		7.5'/9'
-120 <sup>2</sup>	Sil. to slightly stannous qs. w. dec. fair porphyry in close fracts.	0.10			Sl.	220-230	17116		
-131	Hard normal to silic-alt qs. w. frag pale cherty seams & patches.								2.5'/4'
* -135	Mt. w. sp. to fair dissemin porphyry	0.78			Core	131-135	17113		
-155	lightly alt. qs. w. to Cu. in dec. fracts only.	1.75			"	155-160	17114	← Note	vis. min'l'n not impressive, but assays ok.
-155		0.12			"	203 <sup>1</sup> / <sub>2</sub>	17117		4.7'/5'
-160	Broken - part, rarely alt. qs. w. minor porphyry - cpy in fracts.	To			"	223-230	17118		± Full.
-203	Mixed fresh & lightly alt. qs.; loc. thin sects. w. sp. porphyry (close contact @ 176-178)	0.07			Sl.	200-205	17119		
-207	Strongly-bleached silic & lightly stannous qs. w. sp. porphyry - cpy.	0.62			Core	117 <sup>1</sup> / <sub>2</sub> -126	17120		3.5'/4'
-223	alt. qs. w. minor stannous dissemin. mt. bands; sp. silic.	0.26			Core	207 <sup>1</sup> / <sub>2</sub> -214	17121		14'/16'
-230	stannous qs. w. conid. dissemin. mt.; sp. Cu vis. (hand lens)								6.5'/7'
-272	Fract. qs., occ. thin mt. slk.								
END.	Bands; fair mt. to Cu @ 260-266'								

MUTCH  
DRILLING CONTRACTOR

M. M. Shoup  
ENGINEER

all drilling on fairly good rock.  
 Holes approaching 300' depth drilled  
 with difficulty by use of main 4 cyl.  
 + AX. equip. head 04 (Gunn) for longer  
 holes.

### DIAMOND DRILL LOG

D.D.H. No. PS-1  
 LOCATION AT BRANTON  
0 12-A; PRINCE.  
 SECTION \_\_\_\_\_

LATITUDE No coords } SEE '40' STARTED JULY 16, 1963  
 DEPARTURE " " } PLAN COMPLETED AUG. 8, 1963

BEARING N65W DEPTH 250'  
 DIP -55°

COL. ELEVATION 2367' approx. V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

DIST	GENERAL GEOLOGY	% CU.	% FE	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE CORE, BOG.	ECONOMIC GEOLOGY CORE RECOVERY.
						FEET	NUMBER		
0'-22'	Casing thru. O.B.	0.20				66½ - 72½	1808		0'/22'
22-32½	Var'y. bleached & stony Gs. Minor Mt.	0.15				79-85	1809	GEN. H/A.	6'/11'
		0.11				92-98	1810		
		0.15				99-105	1811		
32½-33	Rather mv. Mt w flaky py.	0.03				139-142	1827		
33-45	Rather fresh Gs.; Loc. Mt-Silic.	0.13	16.00			142-144	1828		
		0.50	29.40			168½ - 172	1829		10'/12.3'
-69	Soft-ox green-brown ep-storm. Sp. Mt. visible only.	0.20				172-176	1830	35° e 70'	* 13'/23.7'
-72	Greyish Kal ls. w apprec'l F. Gs. dissem. py. w f. Gs. Mt.	0.30				176-181	1831		
		0.10				181-188	1838		2'/3'
		0.60				188 - 193	1839		
-75	Soft yellow-brown ep-storm, No apprec'l min.	0.45				193-199	1840		0.9'/1'
		1.23	14.40			199-203	1841		
		1.40				203-207	1860		
-92	White ls. w. grey banding, No apprec. min'l'n.	0.32				210-215	1861		18'/19'
		0.05				234 - 240	1862		
-103	Soft brown-ox ep-tuff. w sp. Mt.; Loc. specks ep. in ox Mt.	0.30				240 - 245	1863		* 9'/11.6'
		0.27				245 - 250	1864		
		0.45	check			166½ - 172	1878		1.3'/1.5'
-108	± Fresh. dk. green tuff; No vis. min.	0.58	check			172 - 188	1879		2.2'/3'
-109	Soft, brown weath ep-st. Sp. F. tr. Mt. only.					186½			0.9'/1.0'
-113	Fresh Gs.; Sp pink (Fold) alt. only								3.2'/4'
-128	Mainly powder & frags of soft- ox ep-storm; No vis. min.							45° e 133'	* 2.5'/15'
									8.5'/11'
-139	Gen fresh Gs.; No vis. min'l'n								2.5'/13'
-142	Frag. of harder ep-storm.								

Mutch DRILLING CONTRACTOR

ENGINEER

Cont'd. # P5-1.

# DIAMOND DRILL LOG

D.D.H. No. P-5-1 Cont'd.  
 LOCATION Also P5-1 -  
abandoned when rods  
 SECTION stuck in hole.

LATITUDE \_\_\_\_\_

STARTED \_\_\_\_\_

BEARING \_\_\_\_\_ DEPTH \_\_\_\_\_

DEPARTURE \_\_\_\_\_

COMPLETED \_\_\_\_\_

DIP \_\_\_\_\_

ELEVATION \_\_\_\_\_

V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

DIST.	GENERAL GEOLOGY	% CU.	OZ. AU.	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE	ECONOMIC GEOLOGY CORE RECOVERY.
						FEET	NUMBER		
142-144	Ep-sk. w. fair patchy Mt. only.								1' / 2'
-166	Gen. hard rel. fresh qs. w. minor skarn sects.								15' / 22.5'
* -172	Gen. msv Mt. w. fair dissem. cpy.								* 4' / 5.5'
* -200	Mixed qs. & skarn; gen. sp. min. (per h.o. samples.)								28' / 28.5'
* -207	Slightly skarny qs. w. sects. of msv Mt. gradational to dissem. & thin bands. loc. cpy.								6' / 6.5'
-251	Chty-skarny qs. sp. min'l'n.								43' / 44'
-254	Cherty Bx.; No. vis. min'l'n.								3' / 3'
<u>END.</u>									
DDH #	P5-1A. Col @ 6" from P5-1 & incline @ -90°								
0-31	Ep-gtt. skarn. w. several sects. of good Mt.								
31-35	Fresh to cherty qs.								
<u>End.</u>									

Match.  
 DRILLING CONTRACTOR

W.M.S.  
 ENGINEER

# DIAMOND DRILL LOG

D.D.H. No. PS 1-B.  
 LOCATION Loc. @ same  
S.U. as PS 1-A.  
 SECTION PRINCE GROUP.

LATITUDE No Coord's.

STARTED Aug. 15/63

BEARING - DEPTH 222'

DEPARTURE " "

COMPLETED Aug 21/63

DIP - 90°

Loc. ELEVATION 2367' approx.

V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

DIST.	GENERAL GEOLOGY	% CU.	OZ. AU.	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE Core & Bdg.	ECONOMIC GEOLOGY Core Recovery.
						FEET	NUMBER		
0'-17'	Overburden & loose rock.								0'/17'
-32'	Weath, yellow sk; Rusty spots & pits (leached!) No vis sulf.								10'/15.2'
-36'	Fresh gs. - No min.							35°@36'	3.2'/3.7'
-42'	Skarn, incl. frags. gs; no min.								5.7'/6.2'
-44'	Brown-ox porous skarn; No vis. min.								1.6'/2.6'
-45'	Yellow-white weath - Ep - Gtt. sk. Sp. Cu stain; Minor Mt.							55°@52'	1'/1'
-51'	Cherty skarn & gs. No Min.								5.7'/6.7'
-53'	Gray-striped hal ls. No Min.								1.7'/2'
-53'	Gtt - Ep - sk. Fair Mt.; Sp. Cpy.							45°@59'	0.7'/0.7'
-56'	Hard mottled ls.; No Min.								1.3'/2.3'
-57'	white ls. - No Min.								1'/1'
-59'	Green & speckled black gs. No min.							50°@66'	1.8'/2'
-91'	Gray striped white hal ls.; No vis. min.								29.5'/32'
-95'	Fresh hard gs. Sp. cpy @ 94.5'								4'/4.5'
-102'	Compact to Br ls. No min.								6'/6.5'
-108'	Broken, soft-ox sk., No vis. min.								2.5'/6'
-145'	Gen. compact fresh gs. No vis. min'l'n.								31'/37'
-149'	ox-leached sk. No vis min.								2.5'/4'
-151'	Partly silic. gs. + broken.								1.5'/2.5'
-162'	ox-leached skarn; occ. dissem Mt.; Tr. only of vis. Cu.								3'/9.5'
-183'	Rather broken skarny & cherty - all gs. Minor Mt.; No Cu vis.								17.5'/21'
-222'	Hard compact fresh gs; No vis. min'l'n.							55°@195'	36'/39'
								" @ 210'	
								" @ 219'	
End									

Match  
 DRILLING CONTRACTOR

W.M.S.  
 ENGINEER

NOTE: SKIP #15-2 layout

D.D.H. No. P 5-3  
 LOCATION Col @ 50' E  
of Section 024  
 SECTION PRINCE STRAIGHTS

# DIAMOND DRILL LOG

LATITUDE No Coords. }  
 DEPARTURE " " } <sup>500</sup> '40' plan  
 ELEVATION Cal. 2330' approx. V.D. \_\_\_\_\_ H.D. \_\_\_\_\_

STARTED Aug 24/63  
 COMPLETED Sept. 5/63

BEARING S.E. DEPTH 294'  
 DIP -60°

DIST.	GENERAL GEOLOGY	% CU.	OZ. AU.	OZ. AG.	% MoS <sub>2</sub>	SAMPLE		FOOTAGE Core Rec.	ECONOMIC GEOLOGY Core Recovery
						FEET	NUMBER		
0'-31'	White GRANITE 0' Burden @ 0'-13'								12' / 31' INCL. 13' 0' Burden.
-32	mar mt. No vis Cu.								0.4' / 1'
-41 <sup>2</sup>	Pale patchy siliceous sp mt.								4' / 9.7'
-42 <sup>5</sup>	mar mt. No vis Cu.								0.7' / 0.8'
-47	Wedge Ep-st. w 2" mt								0.8' / 4.5'
-52	patchy siliceous & wedge shams								4' / 5'
-56	Wedge Ep-st. shams; No mud'n.								1' / 1.5'
-59 <sup>5</sup>	Fresh ga.								2.5' / 3'
-62 <sup>5</sup>	mar. mt. - No vis. Cu.								0.7' / 3'
-68	Slightly shams-alt. ga.								3.5' / 5.5'
-87	Singularly partly wedge ep-gtt. shams; 3" mt. @ 75'; Discon. mt. w sp Cu stain @ 80'-82'								12.5' / 19'
-100	Broken ga; Occ shamy beds.							90° @ 120'	6.5' / 13'
-125	Firm ga - No mud'n.	0.20	12.40		86.	124'-134'	17167	70° @ 123'	2.5' / 25'
-128	mt-shams; (est 60% mt.) No vis. Cu.							55° @ 128'	2.4' / 3'
-159	Sil ga & chty shams; No vis. Cu.								20' / 31'
-168	Sil ga; minor shams; No mud'n.								4.5' / 9'
182	Fresh ga.								11.5' / 14'
-186	Ca; loc soft-alt. sects - no mud'n.							55° @ 204'	3' / 4'
-294	Fresh ga; No mt. or other alt'n - mud'n.							75° @ 215'	108' / 108'
								70° @ 270'	
								75° @ 285'	
End	<p>Summary No visible continuity of surf. etc. of mar mt. in drill hole intersections; pos. surf mud'n localized to relatively steep local bedding planes.</p>								

Match  
 DRILLING CONTRACTOR

WMS.  
 ENGINEER