



P. O. Box 269  
Watson Lake, Yukon  
Y0A 1C0

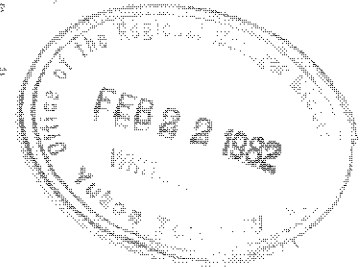
18 February 1982

Your file / Votre référence

Our file / Notre référence

REGIONAL DIRECTOR RESOURCES

Attention: Supervising Mining  
Recorder



RESTRICTED

Enclosed are Diamond Drill Logs and maps submitted by Newmont  
Exploration of Canada Limited for Assessment on the MINDY  
mineral claims located on claim sheet 105-C-9.

Drilling was as indicated below:

DDH 81-1	150.3 m.	(Mindy 13)
DDH 81-2	108.8 m.	(Mindy 13)
DDH 81-3	89.0 m.	(Mindy 13)
DDH 81-4	157.0 m.	(Mindy 11)
DDH 81-5	118.0 m.	(Mindy 11)
DDH 81-6	63.1 m.	(Mindy 4)
DDH 81-7	108.8 m.	(Mindy 11)
DDH 81-8	114.9 m.	(Mindy 11)
DDH 81-9	114.9 m.	(Mindy 6)

Drill core is being stored at Mindy 4. Total credit requested  
is \$22,400.00.

Yours truly,

per  
Patti L. McLeod  
Mining Recorder  
Watson Lake Mining District

pj  
encl.  
cc: Regional Geologist

090987



Department of Indian Affairs and Northern Development  
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	JOHN NEBOCAT	Occupation	TECHNICIAN
(Postal Address)	#1400 - 750 W. PENDER ST., VANCOUVER, B. C. , V6C 1K3		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:-

1. I am the ~~owner~~ agent of the owner, of the mineral claim(s) to which reference is made herein.
2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

MINDY 13 - YA 45021

situated at Southeast of peak 6550' Claim Sheet No. 105 C-9  
in the Watson Lake Mining District, to the value of at least \$8874.00  
dollars, since the 1st. day of August 19 81,

to represent the following mineral claims under the authority of Grouping Certificate No. \_\_\_\_\_  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

MINDY 13 - MINDY 16	YA 45021 - YA 45024	five (5) year renewal
MINDY 33 - MINDY 40	YA 66611 - YA 66618	five (5) year renewal
MINDY 47, MINDY 48	YA 66625, YA 66626	five (5) year renewal
MINDY 63, MINDY 64	YA 66641, YA 66642	three (3) year renewal

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

AUGUST 1 - AUGUST 4, 1981

DIAMOND DRILLING HOLE MINDY 81-1

Core drilling: 0' - 493' = 493' @ \$18.00/foot  
= \$8874.00

Sworn before me on 16 day of February 19 81

Notary Public

John Nebocat  
Applicant.

090987



Department of Indian Affairs and Northern Development  
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



(Name)	JOHN NEBOCAT	Occupation	TECHNICIAN
(Postal Address)	#1400 - 750 W. PENDER ST., VANCOUVER, B. C., V6C 1K3		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:-

1. I am the ~~owner~~ agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

MINDY 11 - YA 45019

situated at Southeast from peak 6550' Claim Sheet No. 105 C-9

in the Watson Lake Mining District, to the value of at least \$ 9270.00

dollars, since the 10th. day of August 19 81,

to represent the following mineral claims under the authority of Grouping Certificate No. \_\_\_\_\_

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

MINDY 1 - MINDY 4	YA 45009 - YA 45012	five (5) year renewal
MINDY 9 - MINDY 12	YA 45017 - YA 45020	five (5) year renewal
MINDY 49 - MINDY 56	YA 66627 - YA 66634	five (5) year renewal

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

AUGUST 10 - AUGUST 12, 1981

DIAMOND DRILLING HOLE MINDY 81-4

Core drilling: 0'-515' = 515' @ \$18.00/foot = \$9270.00

Sworn before me at Watson Lake, B.C.  
this 10 day of February 19 82

Notary Public

John Nebocat  
Applicant.

090987



Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	JOHN NEBOCAT	Occupation	TECHNICIAN
(Postal Address)	#1400 - 750 W. PENDER ST., VANCOUVER, B. C., V6C 1K3		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:-

- I am the ~~owner~~ agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

MINDY 6 - YA 45014

located at Southeast of peak 6550' Claim Sheet No. 105 C-9  
 in the Watson Lake Mining District, to the value of at least \$ 6851.00  
 dollars, since the 29th. day of August 19 81,  
 to represent the following mineral claims under the authority of Grouping Certificate No. \_\_\_\_\_  
 (Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

MINDY 5 - MINDY 8	YA 45013 - YA 45016	five (5) year renewal
MINDY 41 - MINDY 46	YA 66619 - YA 66624	five (5) year renewal
MINDY 57 - MINDY 62	YA 66635 - YA 66640	three (3) year renewal

- The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

AUGUST 29 - AUGUST 31, 1981

DIAMOND DRILLING HOLE MINDY 81-9

Core drilling: 0'-377' = 377' @ \$18.00/foot = \$6786.00  
 Casing: 0'-13' = 13' @ \$5.00/foot = \$ 65.00  
 total = \$6851.00

Sworn before me at Vancouver B.C.  
 this 16 day of February 1982

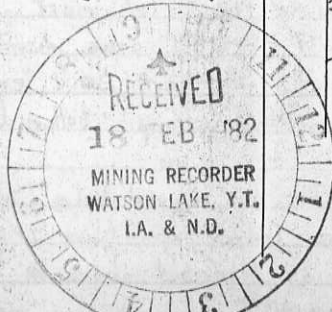
Notary Public

John NeboCAT  
 Applicant.

090987

DRILL LOG

PROJECT MINDY	GROUND ELEV. 1665.5 m
HOLE NO. 81-1	BEARING 320° AZ
LOCATION 6 + 13 N 140 W	DIP -60°
LOGGED BY Douglas Oneschuk	TOTAL LENGTH 150.3 m (1493')
DATE AUG. 1 1981	HORIZONTAL PROJECT 74.75 m
CONTRACTOR BBS Diamond Drilling	VERTICAL PROJECT 125.0 m
CORE SIZE BQ	ALTERATION SCALE 
DATE STARTED Aug. 1 (Day)	TOTAL SULPHIDE SCALE 
DATE COMPLETED Aug. 4 (Day)	
DIP TESTS 250 ft ; -60.5°	
COMMENTS <p>"Alteration" section of log paper is used as a mineral abundance indicator. The minerals being observed are recorded in each column. A scale of <sup>zero</sup> <del>one</del> to four has been used, zero indicating mineral is not present, or is present in only minute amounts. Faulting is graded on a scale of one to four, one being a small shear &amp; four being a major fault.</p>	LEGEND <p>Scale 1:200</p>



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Bio	Drap.	Trem.	Si			
					A	B	C	D	E		
				↑ Caseing ↓							
3.05	82			3.05 → Bio Hrnfls 3.05 to 6.10 very brtn.	1	0	0	1		90	
	85			weakly foliated, massive, mod limonitic							
	100			interspersed @ sml grns & lenses of Qtz(?)							
	100			6.1 → 9.4 solid grnd. No limonite. foliation							
	79			mod → good @ 30° to C.A. Jointing @	2	0	0	2		10	
	100			30° & 102° (30° predom) Amt & size of							
10.0	100			Qtz(?) lenses increases    to foliation Bleached							
	100			zone @ 6.4 → 6.6, after which mod to	0	0	0	1		7	
	100			lng gar (gross? Red) (6.6 → 7.2). Qtz veins							
	100	F1		@ 7.2 (.07 m wide) & 7.6 (.12 m wide). Mod	2	0	0	1		20	
	100			brtn fm 7.2 → 8.7 @ mod lim. staining.							
15.0	100			Bleached zone @ 8.7 → 8.9 m							
	100			9.4 → 11.6. Qtz(?) grains more numerous.	1	0	0	2		10	
	100	F3		Original rtk prob grt. foliation poor,							
	100			@ 20°. Grains are Qtz-fldspr							
	98	F2		11.6 → 21.8 fol. poor → good, @ 10°. Grains	2	0	0	1		15	
20.0	100			more lencoid, size varries mg → fg							
	100			Bleached zone @ 14.36, width .08							
	100	F3		Small limonitic Qtz veins @ 14.7 & 15.7	0			4		6	
	100			Grnd mod to well brtn @ limonite along							
	100			fractures fm 13m. Ap vein contains							
25.0	100			minor calcite. Fm 17m Joints may be filled	0			4		0	
	100			@ Qtz & Sil content increases Qtz vein, 17.7	2	0	0	1		4	
	100			to 17.9; limonitic faults show rtk pwdr,							
	100			increased bio. & rtk chips. Apilitic vein @ 19m	0	0		4		0	
	100			Bleached Zone:	2	0	0	2		5	
30.0	100			21.8 → 25.3 poor foliation @ 90°. Sil cont	0	0	1	4		1	
	100			increased. Minor calcite grains. Slight purplish	1			2		2	
	100			hue (flouritic?) Qtz-feld grains evident							
	100			(mg.) More massive. Small Qtz stringers @ 95°	1			2		2	
	100			may be filled @ sulphides							
35.0	100			25.3 → 30.1 Bio Hrnfls (as above 11.6 →)							
	100	F2		Poor fol. increasing away from qtz.	2			1		3	
	100			Convolutd @ 27.2, & @ 150° @ 28.6							
	100			Zones of best fol most sil. Bleached zone	0			4		0	
	100			at 27.7 → 28.1, same description as above							
40.0	100			Similarly 29.22 → 30.1, except shows	3			2		2	
	100			coarser feld grains & better foliation. P. ill,							
	100			Ap. ill. & ambs							
	100			30.1 → 38.0 Hrnfls has good fol @ 140°, is more sil,	3			2		2	
	100			grains & lenses lrger (max 2 x 1 cm). Small Blech							
	100			zone as described above @ 31.5 → 31.8, &							
45.0	100			33.4 → 33.5 ill containing massive Pb @ minor							
	100			chalco. bleached @ 38.9 → 39.3 also.							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
3.05 → 6.10 diss Po	<1%	3.05	6.1	3m					
6.1 → 9.1 diss Po throughout. Conc along foliation, & sometimes in garnet lenses. Bleached zone has higher conc in vugs. Apatite vein also contains small, black, rounded grains of ?	<1%	6.1	9.1	3m					
9.1 → 12 diss Po	<1%	9.1	12	2.9m					
12 → 15 diss Po. Bleached zone has minor chalc. & Tennite?	<1%	12	15	3m					
15 → 18 diss Po.	<1%	15	18	3m					
18 → 21 dis Po	<1%	18	21						
21 → 24 diss Po & Arspy Fluorite? Bleached zone	2%	21	24						
24 → 25.33 as above	2%	24	25.33						
25.33 → 27.7 Diss. Po in Bio Hrn	<1%	25.33	27.7						
27.7 → 28.1 Bleached zone Diss. Joint ass Po minor chalc	2%	27.7	28.1						
28.1 → 29.2 Bio Hrn Diss Po	1%	28.1	29.2						
29.2 → 30.1 Bleached zone Diss Po minor chalc	2%	29.2	30.1						
30.1 → 32.0 Bio Hrn Diss Po, Massive Po (minor chalc) in small up dyke	<1%	30.1	32.0						
32 → 35 Bio Hrn; Diss Po, Massive Po in one small Bleached zone	<1%	32.0	35.0						
35 → 38 Bio Hrn, Diss Po	<1%	35.0	38.0						
38.9 → 39.3 Bl edge Po stringers. Miner. chalc	1%	38.9	39.3						
39.3 → 42.3 Bio Hrn Diss Po	<1%	39.3	42.3						
42.3 → 45.0 Bio Hrn; Diss Po	<1%	42.3	45.0						



MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				oz/ton	
		FROM	TO	WIDTH		% Sn	% WO <sub>3</sub>	% Cu	% Zn	Ag	Au
Po @ minor chalc. mainly in Qtz-feld lenses	<1%	45	46	1							
Minor Po, limonite & Fluorite in fractures, Diss. Po in Hrnfls	<1%	46	49	3							
Dis Po @ massive Po @ 49.6 → 49.7 ass @ small diopz-tremolite-ankerite(?) zone	1%	49	52	3							
Bio Hrnfl; Diss Po	<1%	52	55								
"	<1%	55	58								
"	<1%	58	61								
"	<1%	61	64								
"		64	65								
Calc-flinta Mill	<1%	65.0	65.4	0.6	12451	0.02	<0.005				
Skarn; minor vonsinite(?) ass @ Trem-actinolite	<1%	65.6	68.6	3.0	12452	0.04	<0.005				
"	<1%	68.6	70.65	2.05	12453	0.02	<0.005	<0.01	0.01	<0.05	0.002
Skarn; Magnetite in graphic-dendritic pattern, fg describing a foliation of 60°. Minor arsenopy	2%	70.65	72.0	1.35	12454	0.02	0.067	<0.01	<0.01	<0.05	<0.002
Skarn; fg, massive Mag. blebs @ 72.1, 73 & 73.3 each approx 2m wide. Minor Po & Arspy	2%	72.0	73.7	1.7	12455	0.54	0.083	<0.01	<0.01	<0.05	<0.002
Skarn; fg Mag. graph-dend pattern & massive	1%	73.7	75.2	1.5	12456	0.02	<0.005	<0.01	0.01	<0.05	0.002
Skarn; fg Mg, Po, Tr chalc in massive blebs. Mag often in needle-textures in non-bleb areas (Vonsinite? trace) Note: Description 70m → 80m describes adjacent lithology column.	3%	75.2	76.7	1.5	12457	1.00	<0.005	0.01	<0.01	<0.05	<0.002
"	2%	76.7	77.4	0.7	12458	0.52	<0.005	0.05	<0.01	<0.05	0.002
"	3%	77.4	78.8	1.4	12459	0.26	<0.005	0.06	0.01	<0.05	<0.002
"	2%	78.8	80.0	1.2	12460	0.02	0.042	0.05	<0.01	<0.05	0.002
Skarn; Mostly Po, w minor Mag & trace chalc in graphic to bleb to diss text.	2%	80.0	82.0	2.0	12461	0.05	<0.005	0.05	0.03	<0.05	<0.002
Skarn; Minor Diss blebs of fg Po, Arspy chalc	<1%	82.0	84.25	2.25	12462	0.03	0.006				
Bio Hrnfls; Diss. fg Po Tr chalc						72.0	78.8	=	6.8	m	@
"										0.467%	Sn

%	CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Bio		Trem-act.	Si	Gar		
					A	B					
950	100			Bio Hrnfls (cont) Bleached chlorite - Qtz zones @ 94.8 → 94.9 & 95.6 → 95.6 showing massive blebs of Po & trace chalc., & trem-act. Si content drops slightly & Bio content rises, ass. @ drops in size & amount of Qtz - field lenses, becoming fairly homogeneous at 96 m, @ only a few lenses up till 102 → 103.5, where round grains appear instead of lenses. Occasional thin (ie 1mm) Qtz veins containing massive chalc., Po and Trem-act. occur @ 120° (ie 100.2m), Si content goes up @ 105 as Hrnfls grades into the chert lenses become larger, and go to large (3cm) breccia- pebble fragments, becoming less lensoid as chert becomes more prominent. Andradite(?) & chlorite? also fairly prominent in transition.	1	0	0	3	0	2	
100	100			CHERT (106.4 → 117.0) (106.4 → 108.1) limonitic staining in numerous small fractures @ black-grey substance. Veinlet-fractures @ Po @ 10° (108.1 → 111.5); Massive chert @ small veinlets of pure chert cutting a more milky white chert approx ⊥ to C.A. veinlets & dense (10/cm) Few major fractures @ 10°, lined @ muscovite (111.5 → 117.0) as above, but chert veining is predom    to C.A. "micro-fracture" intensity increases & fractures are filled with creamy white (andradite?) Major fracture sill carries Masc. Chert veinlets become more random @ 114 Chert becomes intensely fractured @ Bio-Hrnfls contact, but still massive	2	0	0	2	0	1	
105	100			Bio. Hrnfls (117.0 → 144.9) (117.0 → 121.6) Silicious @ mud to poor tol. @ 70°. Andradite? up to 120 (Red, fg xstaline, massive) Slightly calcareous. Chert lenses interspersed throughout, [2cm x (?) max]. Dk grey, granular mm (Disp?) abundant (121.6 → 125.6) v. sil. possibly Hrnflslic Chert; lrg lenses (3cm max) cut by Botitic banding approx ⊥ to C.A. Dk grey grains found in these bands. At 123.6 fracturing & Hrnfl intensifies, lenses become thinner (1cm max); more brecciated. Still slightly calcareous. Andradite? still evident, ass. @ Hrnflslic bands. Main joints @ 15° (125.6 → 126.8) Bio Hrnfls, as (117.0 → 121.6) except fewer & smaller chert lenses. 2 3cm wide Pegmatite veins @ 25.9 & 26.1 containing Qtz, muscov. Po & Tr chalcopy (126.8 → 134.9) Hrnflslic Chert as described above. Lenses max size 40cm, generally about 7mm foliations @ 70° Jointing & veinlets @ 10° to 30°. Pure chert veinlets cut milky chert in most fragments (similar to chert horizon above). minor calcite in some joints.	2	0	0	2	0	2	
110	100				1	0	0	3	2(?)	5	
115	100				1	0	0	3	2(?)	4	
120	100				1	0	0	4	2(?)	5	
125	100				1	0	0	4	2(?)	5	
130	100				2	0	0	2	2(?)	3	
135	100				1	0	0	4	2(?)	4	
	100				1	0	0	4	2(?)	4	

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
Bio Herfts Diss Po & a few 1mm wide qtz-trem-actinolite veins chewing massive Po, chalca	<1%	90	93						
	<1%	93	94.5						
	<1%	94.5	97.5						
	<1%	97.5	100						
	<1%	100	102						
occasional Po bleb	<1%	102	105						
chert blebs: Diss & Abo, v. veinlets. fg. Po, Arspy & chalca. Mainly in "matrix" but also in fragments	1%	105	106.4						
chert, Diss Po, Arspy & Tr chalca. fg. Abo in veinlets (1-2 per m)	1%	106.4	108.1						
Chert, Minor Diss Po. 1 2	<1%	108.1	111.5						
F.G. Massive Sulphide blebs 5cm wide @ 111.6 & 113.4, between which micro veinlets & veinlets (5m), small blebs & disseminated occure Po, Py, chalcopy	1%	111.5	113.5						
	<1%	113.5	117.0						
Chert, Minor Diss Po									
Bio Herfts fg. disseminated & blebular Po & chalca, sometimes surrounding grey grains. One 3cm wide massive zone @ 118.1 with graphic texture caused by small chert veinlets	1%	117.0	120.0						
	1%	120.0	121.6						
Chert - Bio Herfts?									
Diss Po, mainly in chert. minor chalcopy	<1%	121.6	124.6						
" " " "	<1%	124.6	125.6						
Bio Herfts, Diss Po, Tr Chalcopy	<1%	125.6	126.8						
Herftsie Chert fg Diss Po	<1%	126.8	129.0						
Small veinlets @ fg massive Po & Tr chalcopy (1mm wide)	<1%	129.0	132						
	<1%	132	135						





DRILL LOG

PROJECT MINDY	GROUND ELEV. 1665.5 m
HOLE NO. 81-2	BEARING 005° AZ
LOCATION 6 + 13 N 140 W	DIP -60°
	TOTAL LENGTH 108.8 m (357')
LOGGED BY Douglas Oneschuk	HORIZONTAL PROJECT 54 m
DATE Aug 7, 1981	VERTICAL PROJECT 94 m
CONTRACTOR BBS Diamond Drilling	ALTERATION SCALE 
CORE SIZE B Q	TOTAL SULPHIDE SCALE 
DATE STARTED Aug 4, 1981	
DATE COMPLETED Aug 7, 1981	
DIP TESTS @ 250 ft -61°	
COMMENTS	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					Bio		Tram Act	Si	Gar.			
					A	B	C	D	E			
				Caseing, 4.3 m								
5				Bio Hrnfls (4.3 - ) Good fol. @ 60°								
10	100			Contains Qtz grains/lenses max size 5mm. Jointing lined with limonite @ 50° & 10° (50° most prominent). 6cm Qtz vein @ 8.2 m @ 10° & a "bleached zone" @ 8.5 - 8.7 m @ 60°. Core mod to well broken up.	3		0	1	0	13		
10	100			3cm Qtz vein @ 11.2. Qtz veins massive, well fractured. Limonite lining fractures, may contain minor chlorite. Small areas of "grit" (.3m wide max) may exist, indicating original rk type (ie 12.6 - 12.8). These areas show poor to mill fol. Grnd still well brkn. Zone from 20.0 to 25.3 extremely brkn up. high limonitic con <sup>c</sup> frn 20.0 - 21.4	2		0	1	0	10		
15	96			Sml bleached zone @ 19.5 caused by small vinent in joint chloritic alt'n. Some jnts / fractures contain calcite. Bleached zone, v brkn @ calcite; rk powder along fractures @ 24 - 25. Bleached zone	3		0	1	0	11		
15	100			Small bleached zone @ 19.5 caused by small vinent in joint chloritic alt'n. Some jnts / fractures contain calcite. Bleached zone, v brkn @ calcite; rk powder along fractures @ 24 - 25. Bleached zone	3		0	1	0	12		
20	80			Good fol. lots of Qtz; Qtz-feld lenses (26.2 - 26.9). Bleached zone ass @ Qtz vinent @ 30.2 - 30.7, showing fg apatitic text (as normally); a C.g. Qtz-feld text in one .2 m section. Minor chlor present. Poor fol frn 30.9 - 32.5. Bleached zones @ 31.9 - 32.3, 33.7 - 34, & 34.3 - 34.4. All caused by joint/vinent containing fg. Po; Tr. chalc. 1cm Qtz vein @ 32.8. Both show minor chlorite. Bleached zone @ 40.7 - 41.5. Fol varies from 60° to 80°.	2			2		14		
20	100		F3	Good fol. lots of Qtz; Qtz-feld lenses (26.2 - 26.9). Bleached zone ass @ Qtz vinent @ 30.2 - 30.7, showing fg apatitic text (as normally); a C.g. Qtz-feld text in one .2 m section. Minor chlor present. Poor fol frn 30.9 - 32.5. Bleached zones @ 31.9 - 32.3, 33.7 - 34, & 34.3 - 34.4. All caused by joint/vinent containing fg. Po; Tr. chalc. 1cm Qtz vein @ 32.8. Both show minor chlorite. Bleached zone @ 40.7 - 41.5. Fol varies from 60° to 80°.	1			2		20		
25	96		F4	Good fol. lots of Qtz; Qtz-feld lenses (26.2 - 26.9). Bleached zone ass @ Qtz vinent @ 30.2 - 30.7, showing fg apatitic text (as normally); a C.g. Qtz-feld text in one .2 m section. Minor chlor present. Poor fol frn 30.9 - 32.5. Bleached zones @ 31.9 - 32.3, 33.7 - 34, & 34.3 - 34.4. All caused by joint/vinent containing fg. Po; Tr. chalc. 1cm Qtz vein @ 32.8. Both show minor chlorite. Bleached zone @ 40.7 - 41.5. Fol varies from 60° to 80°.	1			2		50		
25	100			Good fol. lots of Qtz; Qtz-feld lenses (26.2 - 26.9). Bleached zone ass @ Qtz vinent @ 30.2 - 30.7, showing fg apatitic text (as normally); a C.g. Qtz-feld text in one .2 m section. Minor chlor present. Poor fol frn 30.9 - 32.5. Bleached zones @ 31.9 - 32.3, 33.7 - 34, & 34.3 - 34.4. All caused by joint/vinent containing fg. Po; Tr. chalc. 1cm Qtz vein @ 32.8. Both show minor chlorite. Bleached zone @ 40.7 - 41.5. Fol varies from 60° to 80°.	2			2		5		
30	100			Good fol. lots of Qtz; Qtz-feld lenses (26.2 - 26.9). Bleached zone ass @ Qtz vinent @ 30.2 - 30.7, showing fg apatitic text (as normally); a C.g. Qtz-feld text in one .2 m section. Minor chlor present. Poor fol frn 30.9 - 32.5. Bleached zones @ 31.9 - 32.3, 33.7 - 34, & 34.3 - 34.4. All caused by joint/vinent containing fg. Po; Tr. chalc. 1cm Qtz vein @ 32.8. Both show minor chlorite. Bleached zone @ 40.7 - 41.5. Fol varies from 60° to 80°.	1			2		6		
35	100			Good fol. lots of Qtz; Qtz-feld lenses (26.2 - 26.9). Bleached zone ass @ Qtz vinent @ 30.2 - 30.7, showing fg apatitic text (as normally); a C.g. Qtz-feld text in one .2 m section. Minor chlor present. Poor fol frn 30.9 - 32.5. Bleached zones @ 31.9 - 32.3, 33.7 - 34, & 34.3 - 34.4. All caused by joint/vinent containing fg. Po; Tr. chalc. 1cm Qtz vein @ 32.8. Both show minor chlorite. Bleached zone @ 40.7 - 41.5. Fol varies from 60° to 80°.	2			3		5		
35	100			(41.8 - 43.9) small drk gray to black grains (slipside) numerous.	2			2		4		
40	100				2			2		5		
40	100				2			3		4		
45	100				2			2		3		

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
Bio Hrnfls, Minor diss po, fg	<18	4.3	7.3						
Bio Hrnfls; Minor diss po. Qtz veins & Bleached zone also contain Tr chalc. (fg) Major Joints often filled w/ Po if still intact. Relatively few major joints unless indicated in Geol. Disc.	<18	7.3	10.3						
	<18	10.3	13.3						
	<18	18.3	16.3						
	<18	16.3	19.3						
	<18	19.3	22.3						
	<18	22.3	25.0						
	<18	25.0	28.0						
	<18	28.0	31.0						
Qtz veins containing fg massive, blebular Po w/ Tr chalc & Arseno. Bleached zones have higher sulphide content (<18), in diss &/or fg blebular Po. (Tr chalc)	<18	31.0	34.0						
	<18	34.0	37.0						
	<18	37.0	40.0						
	<18	40.0	42.0						
	<18	42.0	45.0						



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Bio	Fl	Trem out.	Si	Sar.		
					A	B	C	D	E		
50			F1	Bio Hrnfls (cont) (45.1 - 45.7) Bleached Zone/w/ Qtz vein (2cm) in center. Qtz vein contains minor fluorite. fol becoming quite intense, lenses very stretched out. Drk-gry grains from 47.1 - 48.7	2	1	-	2		5	
50			F4	Bleached zone (49.2 - 53.3) 2cm calcite vein @ 49.7 & 5mm one @ 49.6. Fault zone is also calcite rich, as is all rks immediately around it (within 1m) and all fractures & joints fault zone; 49.7 - 50.3. 50.3 - 51.1 shows mg chloritic-calcic rock, pale grn, massive. All of zone is somewhat chloritic. Bio Hrnfls (53.3 - )	0	0		3		5	
55				Mod fol @ 90° to 120°. Small drk gry granular grains (disp?) abundant from 54 - 57m	2	0		3		6	
60			F2	Jointing @ 20° & 160° (Disp?) fairly continuous through core from 61.0. (63.7 - 63.8) small bleached zone	2	0		3		5	
65				(68.6 - 68.1) Bleached zone	2			3		5	
70					2			3		5	
75				(75.5 - 75.8) Bleached zone	1			3		4	
80				(79.2 - 80.2) small FL-silicate veinlets @ 120°. (4 per m)	1			3		5	
80			F2	SKARN/MASSIVE SULPHIDE (80.7 - 98.45) Non-calcareous, pale grn to grn to drk grn gry, massive, fg xstaline, Small sulphide-free zone @ 82.7 - 82.9. MS/SKN foliation @ 70° (80.7 - 81.7) MS. fg disseminated & blebular @ poor to mod fol. Minor transient fluorite xstals & eyes, (1-2mm size). (81.7 - ) MS. Becomes much more fol, & banded, often convoluted, (sim to banded stratiform volcanogenic M.S.) This text. intensifies @ depth of hole, showing alternating textures of good fol. & good circular convolutions (re 81.7) M.S. & fluorite veins 1cm wide also occur. Chlorite abundant, 1cm	0	2	3	4		4	
85				Qtz-fluorite vein @ 83.45, 82.9, 83.7 showing only minor sulphides (P)	0	3	3	4		5	
85					0	3	3	4		3	
85					0	3	3	4		4	
90					0	3	0	4		3	

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS						
		FROM	TO	WIDTH		Sn	WO <sub>3</sub>	Cu	Zn	Ag	Au	
cont												
	<1%	45	48									
	<1%	48	49.2									
Bleached Zone, Diss. In veinlets as massive fg. Po, Tr chalc	1%	49.2	51.1									
Bleached zone, Diss Po	<1%	51.1	53.4									
Bio. Hrafls - Diss Po. occasionally in fg blebs found in silica lenses	<1%	53.4	56.4									
	<1%	56.4	58.4									
	<1%	58.4	62									
	<1%	62	65									
	<1%	65	68									
	<1%	68	71									
	<1%	71	74									
	<1%	74	77									
	<1%	77	80.2									
SRM/MS. (See Geol Disc Also) Po, minor chalc.	40%	80.2	81.7	1.5	12463	0.006	0.11	0.14	0.01	<0.05	0.002	
Minor Vms blades @ 81.5 SRM/MS. fg M.S.	50%	81.7	83.7	2.0	12464	0.005	0.11	0.09	<0.01	<0.05	0.002	
Blebbular, foliated, convoluted, 1cm veins @ 84.4	60%	83.7	85.0	1.3	12465	0.005	0.18	0.10	<0.01	<0.05	0.002	
84.2. Po, Tr chalc. Fluorite	60%	85.0	86.65	1.65	12466	0.005	0.38	0.12	<0.01	<0.05	0.002	
Foliated M.S dipping 40° before 84.3; 130° after 84.3. (84.3 is nose of iml fold). Po, Fr. chalc. Also Fluorite & Ars. py.	90%	86.65	87.9	1.25	12467	0.65	0.11	0.05	<0.01	<0.05	0.002	
See P. 36	65%	87.9	90.0	2.1	12468	0.61	0.10	0.08	<0.01	<0.05	0.002	
Fol. fg. M.S. Po, Tr chalc, Magnetite. Fol. - Massive Arsynopy) zones @ 89m, 89.4m & 89.6 to 89.95. Vms needles occasionally seen in Massive												
N2/E2 Po. Massive vms. may be interbanded												



MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				oz/t Ag	oz/t Au
		FROM	TO	WIDTH		% Sn	% WO <sub>3</sub>	% Cu	% Zn		
Massive & fg foliated & convoluted bands (sometimes banded within bands) Po. Arsenopy rossets, in v. v. v. disseminated. Tr. chalc.	508	90.0	92.0	2.0	12469	0.011	0.22	0.11	0.02	<0.05	0.005
As above, @ Magnetite-Vansite-Arsenopy-Po zone (93.2 - 93.7)	608	92.0	94.0	2.0	12470	0.073	0.13	0.10	0.01	<0.05	0.002
As above; Mag. rich zone 94.7 - 95.3	608	94.0	95.5	1.5	12471	0.016	0.12	0.08	0.01	<0.05	0.002
As above.	158	95.5	96.5	1.0	12472	0.006	0.092				
Minor Diss Po, Arsenopy.	<18	96.5	98.45	1.95	12473	0.003	0.016	0.03	<0.01	<0.05	0.002
Bio Hrnfls fg diss Po (Tr.)	<18	98.45	101.35								
Chert; Tr Arsenopy & Po fg. diss.	<18	101.35	104								
	<18	104	106								
	<18	106	108.8								

DRILL LOG

PROJECT MINDY	GROUND ELEV. 1665.5 m
HOLE NO. 81-3	BEARING Vertical
LOCATION 6+13 N 140 W	DIP Vertical
	TOTAL LENGTH 89.0 m (292')
LOGGED BY Douglas Oneschuk	HORIZONTAL PROJECT
DATE Aug 7, 1981	VERTICAL PROJECT
CONTRACTOR BBS Diamond Drilling	ALTERATION SCALE
CORE SIZE B·Q	 <ul style="list-style-type: none"> <li>absent</li> <li>slight</li> <li>moderate</li> <li>intense</li> </ul>
DATE STARTED Aug 7, 1981	TOTAL SULPHIDE SCALE
DATE COMPLETED Aug 8, 1981	 <ul style="list-style-type: none"> <li>traces only</li> <li>&lt; 1%</li> <li>1% - 3%</li> <li>3% - 10%</li> <li>&gt; 10%</li> </ul>
DIP TESTS NONE	
COMMENTS	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				Caseing; 3.4 m							
5	86			Bio Hrnfls; (3.4 → 4.8-5.5) mod to poor	2			2		14	
	100			Fol. @ 60°. Some small zones (.1 → .2m) look unaltered (reflecting on rk type i.e. grit?). Smal qtz v.ienlets @ 30°, (3 per m), may contain f. p. Bleached zone (6.5 → 6.9) fg xstals. f. (7.9 → 8.0), fg xstals	2	1		2		10	
10	100			Flourite; mg felds xstals. Qtz-chert vein (7.2 → 7.5) well fractured @ limonite lining fractures. Jointing @ 170° f. 70°, lined @ limonite. Bleached zone (12.7 → 13.2), (14.6) both @ mg feld xstals. At 11.3	2			2	1	11	
	98		F2	Jointing changes to 80° f. 150°. Bleached zone (17.6 → 18.0) @ minor flourite. Faults starting @ 19.5	3	1		2		8	
15	90		F3	lined @ limonitic calcite. Bleached zones @ 20.0 → 20.4 (containing minor chlorite). (20.0 → 34.0) fol poor to	2			2		17	
	100			nil, rk more like grit. Bleached zones @ 24.2 → 24.9	2			2		11	
20	100		F3	25.9 → 26.4 f. 29.5 → 33.7, the last one containing minor chlorite; chlorite v.ienlets. Mod. calcareous throughout. Minor massive andradite gar @ end of zone. (Zone possibly a weak skarn)	2			2		12	
25			F3		1			2		11	
30			F3		1			2		12	
35				Bio Hrnfls as before, fol mod to good @ 80 to 90°. fg, drk gry, rounded (dispside?) xstals @ 35-8m, fol becomes slightly more convoluted. Joints no longer lined with calcite, run @ 20° f. 160°, lined @ qtz xstals.	2			2		5	
					2			3		4	
40					2			2		5	
45				Bleached zone; 43.1 → 43.35, fg xstals	2			3		4	

MINERALIZATION  
DESCRIPTIONTOTAL  
SULPHIDE

SAMPLES

FROM

TO

WIDTH

SAMPLE  
NUMBER

ASSAYS

Bio Hrnfls; Diss fg Po. m  
Bleached zones, —" —" —" —" ⊕ Tr.  
chalc. & Arseno, all of which are not  
slightly more abundant.

&lt;1% 3.4 6

&lt;1% 6 9

&lt;1% 9 12

&lt;1% 12 15

&lt;1% 15 18

&lt;1% 18 21

&lt;1% 21 24

&lt;1% 24 27

&lt;1% 27 29.5

Limnetic Bleached zone, Diss, fg  
Po & fg blebular Po ⊕ Tr  
Arsenopy & chalc.

1% 29.5 33.7

Bio Hrnfls as before

&lt;1% 33.7 36

&lt;1% 36 39

&lt;1% 39 42

&lt;1% 42 45

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Bio	Fl	act. Trem	Si	GR		
					A	B	C	D	E		
50	100			Bio Hornfels (cont). Andradite gar (massive xstaline) occurs in zone 44.8 → 46.5. fol changes to 60° @ 45m. Silicate lenses become abundant, and lrgz (2cm x?) @ 42m (Diopsid?) grains disappear @ 44m	2		0	3	2	4	
	100			SKARN (48.55 → 67.7) fg to mg xstaline, pale to dk green, massive, weakly to none calcareous, occasional c.g. calcite xstals. Actinolite (?) (elongate, massive dark grn to grn. hard, 11 cleavage) zone frn 48.55 → 52.3, in fractures & masses. Becomes calcareous @ 54.2. Milky, pale grn zone frn 52.3 → 54.45 containing fg massive andradite gar, mainly along microfractures, ⊙ a dendritic pattern, in fault zone @ 52.6. (Drks zones caused by mg chlor. concentrations?) Jointing uncommon @ 20°. Act. trem picks up again @ 54.45. Seems to be ass ⊙	0		3	3		4	
55	100			Drks chloritic (?) zones. And. gar zone 56.5 → 60.1, also containing calcite xstals (mg/cg); increased chlor. & actm. (60.1 → 62.1) fg calcareous massive stkn. Minor act. frn 60.1 → 60.3, (62.1 → 67.2) mg to c.g. xstaline stkn @ calcite-trem-act min best @ joints (63.2m; 64m). Minor andradite 66.2 → 67.2.	0		2	3	2	7	
60	100			LIMESTONE/MARBLE (67.7-74.8) DRUSY, XTALINE, CLEAN, WEAKLY MARBLED. NO SULP & OXIDES. TR FLUORITE ⊙ 73.5	0		3	3	2	2	
65	100			SKARN (74.8-75.7) GREY BLACK + GREEN MOTTLED. MAGN SKN F SU MINERALS	0		3	3	2	2	
70	100			LIMESTONE/MARBLE (75.7-78.2) SAME AS PREVIOUS, FL STR @ 40°	0		2	1			
75	100			SKARN (78.2-83.9), SAME AS PREV, 78.2-78.4. FROM 78.4, PALE GREEN FROM ACT? DIOP? TREM! MAG. DISSAPPEARS, DISS ARSENO APPEARS TO 78.6. WEAK SKARN, TREM. MARBLE. PATCHES OF DK GREEN MIN FROM 80.4, CHL → TREM IPOCRASE 81.4-82.5, INCR TREM, DKR MATRIX 82.5-83.9, INCR CHL	0	0	1	3	0	1	
80	100			BIOTITE HORNFELS (83.9-89.0) LT PURPLE TO GREY, INCR SI DOWNHOLE, DECR BIO.	0	0	3	3	0	2	
85	100				0	0	3	3	0	2	
90	100				0	0	3	3	0	2	
EOH				EOH							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				Ag	Au
		FROM	TO	WIDTH		% Sn	% WO <sub>3</sub>	% Cu	% Zn		
	<1%	45	46.5								
	<1%	46.5	48.55								
SKAN. Arsenopy rossets, found associated with chlorite-actinolite zones	2%	48.55	50.5	1.95	12474	0.02	0.071				
Massive blebular Fg Po to chalc @ 51-1. Also Diss Fg Po & massive Fg Po throughout mass of sample in veinlets. Tr chalc	2%	50.5	52.3	1.8	12475	0.01	0.015				
Minor Diss. P.	<1%	52.3	54.4	2.1	12476	0.01	<0.005				
	<1%	54.4	56.4	2.0	12477	0.01	0.005				
Also minor Fg blebular Po (1cm x 3cm max)	1%	56.4	58.4	2.0	12478	0.02	0.015				
SCHHEELITE WEAK, 0.5m - 1.0m Ø	<1%	58.4	60.4	2.0	12479	0.04	0.005				
diss., 0.0X% - 0.0X%	<1%	60.4	62.4	2.0	12480	0.01	0.005				
	<1%	62.4	64.4	2.0	12481	0.04	0.010				
	<1%	64.4	66.4	2.0	12482	0.02	0.010				
Massive Fg Magnetite from 67.3 - 67.7 weakly foliated @ 60°	<1%	66.4	67.3	0.9	12483	0.063	0.013				
	30%	67.3	67.7	0.4	12484	0.15	0.008	<0.01	0.07	<0.05	
No Sulphides visible	<1%										
	<1%	70									
	<1%	72	74.7								
MAG, HEM → MAG, PO, SPHAL?, FLUOBOR, VON?	10%	74.8	75.7	0.9	12485	0.20	0.013	<0.01	1.21	<0.05	
		75.7	78.1								
MAG, HEM, PO, VON? FLUOB. SPH	20%	77.8									
TR AS? & PO	1%	78.2	79.9	1.7	12486	0.068	0.015				
		79.9	81.9	2.0	12487	0.02	0.005				
	1%	81.9	83.9	2.0	12488	0.02	0.021				
TR DISS PY & IN STR. S	<1%										

DRILL LOG

PROJECT MINDY	GROUND ELEV. 1662 m ASL
HOLE NO. 81-4	BEARING 315° AZ
LOCATION L 5N x 160 W	DIP -50°
	TOTAL LENGTH 157.0 m (515')
LOGGED BY J. NEBOCAT	HORIZONTAL PROJECT 100 m
DATE Aug. 10, 1981	VERTICAL PROJECT 122 m
CONTRACTOR BBS DIAMOND DRILLING	<b>ALTERATION SCALE</b> 
CORE SIZE BQ	
DATE STARTED Aug 10, 1981 PM	<b>TOTAL SULPHIDE SCALE</b> 
DATE COMPLETED Aug 12, 1981 AM	
DIP TESTS 257' @ -48° 497' @ -48°	
COMMENTS	LEGEND



MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
TR DISS PY	<1%								
PY + LIM IN STRINGERS	2%								
DISS PY IN CHERT CLTS									
11.6 BLEB PO IN SIL FR	1%								
PO ALONG FRACTS									
12.5 PY IN STR @ 065°	1%								
PO IN STR'S ALONG FRACT									
TR PO	<1%								
	<1%								
PO ALONG STR FRACTS	1%								
	1%								
	1%								
	<1%								
	<1%								
	<1%								
	<1%								



MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				oz/t Ag	oz/t Au
		FROM	TO	WIDTH		% Sn	% WO <sub>3</sub>	% Cu	% Zn		
TR PO IN STR'S	<1%										
	<1%										
	1%										
	<1%										
	<1%										
	<1%										
	1%										
	1%										
PO STR + BLEBS w/ TR COPR,	5%	69.3	69.9	0.6	12489	0.02	<0.005	0.02	0.02	<0.05	
MASS MAG w/ DISS OF PO,	30%	69.9	70.8	0.9	12490	0.55	0.18	0.02	0.78	<0.05	
COPR & ARSENO. SN BORATES??	0										
	0										
	0										
	0										
	0										
	0										
	0										
	0										
	0										
	0										
	0										
	0										

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					Bio A	Fl B	ACT TRE C	Si D	GAR E		
				LIMESTONE/MARBLE, CONT'D - SAME AS BEFORE	0	0	0	0	0		
				- 94.3 : QTZ STR'S LOCALLY	0	0	0	2	0		
95.0					0	0	0	2	0		
100.0				100.7 - 101.9 - ZONES w/ FIBROUS WHITE TREM? (NON-CALC) QTZ VEINS DISAPPEAR CREAMY-WHITE TO GREY, HOMOGENOUS T-OUT	0	0	2	1	0		
105.0					0	0	0	0	0		
110.0					0	0	0	0	0		
115.0				113.3-113.7, FIBROUS WHITE TREMOLITE + EMERALD GREEN GARNET IN NARROW ZONE WITHIN MARBLE. TREMOLITE-GARNET SKARN (114.8-118.9) FIBROUS, STICKY WHITE, w/ GREEN GARNET OCCURRING LOCALLY IN SPOTTCHES LIMESTONE/MARBLE (118.9-148.1)	0	1?	3	0	2		
120.0				SAME AS PREVIOUS - QTZ VEIN @ 122.4 - TREM/GAR/QTZ SKARN 124.2-124.9 MARBLE	0	1	4	1	2		
125.0					0	0	0	0	0		
130.0				128.3-128.6 - IDOGRASE + ANDRADITE? WITH MARBLE	0	0?	1	1	2		
135.0				131.6-137.5 ZONES OF TREM/GAR/FL/QTZ ALT'N WITHIN MARBLE. PALE GREEN FL LOCALLY.	0	1	2	2	1		
					0	2	2	1	2		

MINERALIZATION DESCRIPTION

TOTAL SULPHIDE

SAMPLES

FROM

TO

WIDTH

SAMPLE NUMBER

ASSAYS

NO MINERALIZATION

0

0

0

0

0

0

0

0

0

0

0

0

0

127.6 DISS PO W STR OF  
QTZ + CKN  
TRACE PO

0

133.5 MINOR DISS MAG.

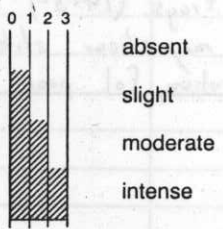
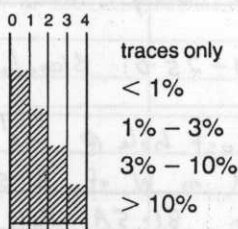
0

<10%

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					B <sub>10</sub> A	FI B	ACT TREM C	Si D	GAR E		
140.0	100			LIMESTONE/MARBLE (CONT'D)	0	1	2	1	1		
	100			CREAMY WHITE TO GREY, HOMOGENOUS MARBLE, XTALLINE	0	0	0	0	0		
145.0	100				0	0	0	0	0		
	100				0	0	0	0	0		
	100			↓ MASSIVE SULPHIDE SKARN (148.1-150.4)	0	0	0	0	0		
	100			SULPHIDE CTCT W/ MARBLE @ 040°	0	1	2	1	1		
150.0	100			PRED THIN-BANDED MAG, PO, RARATE? W/ DISS CPY + ARSENO. GREEN MAFIC GANGUE INCL POWUHOLE, POSS DIOP + ACT.	0	1	3	1	1		
	100			BIOTITE HORNFELS (150.4-157.0)	2	0	1	2	0		
	100			CTCT W/ SKARN @ ≈ 50° SIMILAR TO TOP OF HOLE. QTZ/							
155.0	100			CHERT - RICH ZONES 150.4-151.2, 155.1-156.5- RUSTY BIOTITE, POSS W/ HEM 151.8-152.8 BRKN AT EOH.	2	0	0	2	0		
160.0				EOH							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				oz/t Ag	oz/t Au
		FROM	TO	WIDTH		%	%	%	%		
						Sn	WO <sub>3</sub>	Cu	Zn		
TRACES OF DISS PO	<1%										
	<1%										
	<1%										
	<1%										
	<1%										
	<1%										
- THIN-BANDED, BLACK TO GREY MAG. & TIN BORATES? PRED.	50%	148.1	149.8	1.7	12491	0.24	0.008	0.10	0.03	<0.05	
	10%	149.8	150.4	0.6	12492	0.15	0.038	0.08	0.02	<0.05	
SPO INTER LAYERED & INCR → HOLE. GANGUE 12 CR → ALSO - SMALL BLACK NEEDLES MAY BE BORATES	3%										
-151.2 - 152.8: STR & DISS PO.	<1%										

DRILL LOG

PROJECT <b>MINDY</b>	GROUND ELEV. <b>1662 m</b>
HOLE NO. <b>81-5 A:B</b>	BEARING <b>270° AZ</b>
LOCATION <b>L 5N x 160 W</b>	DIP <b>- 60°</b>
	TOTAL LENGTH <b>118.0 m (387')</b>
LOGGED BY <b>Douglas Oneschuk</b>	HORIZONTAL PROJECT <b>61 m</b>
DATE <b>Aug 13, 1981</b>	VERTICAL PROJECT <b>101.5</b>
CONTRACTOR <b>BBS Diamond Drilling</b>	ALTERATION SCALE 
CORE SIZE <b>BQ</b>	TOTAL SULPHIDE SCALE 
DATE STARTED <b>Aug 13, 1981</b>	
DATE COMPLETED <b>Aug 17, 1981</b>	
DIP TESTS <b>257 ft : 57°</b> <b>387 ft : 61.5</b>	
COMMENTS	LEGEND



MINERALIZATION DESCRIPTION

TOTAL SULPHIDE

SAMPLES

FROM

TO

WIDTH

SAMPLE NUMBER

ASSAYS

Bio Artls Minor Diss Po  
Bleached zones may contain slightly  
higher amounts, and/or Po veinlets  
w to chalc.

< 1/6

Small bleached zone @ 25.5  
containing massive blebular fg  
Po. Likewise @ 29.

Bleached zone, as above



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Bio	Fl	Iron out	S <sub>i</sub>	Gar		
					A	B	C	D	E		
45				45m $\rightarrow$ fol. Become more distinct @ 60° Jointing @ 20° minor calcite. fol may be convoluted in some areas. Bleached zones less numerous after 48.7m, & may contain chlorite. Lenses contain no calcite	2	0	0	3	0		
50					2	0	0	3	0		
55				55-60. Area of Bio Horn & Bleached zones	1	0	0	3	0		
60				60-66.2 fol excellent @ 60°. Silicate lenses abundant	1	0	0	3	0		
65				64.9-66.2. <sup>cg to</sup> mg, drk gy to black chlorite(?) grains	1	0	0	3	0		
70				SKARN (66.2-67.0) andradite skrn. Andradite fg to cg xstaline micaceous-fg xstaline. Generally mg xstaline, med-drk green and/or drk red	0	0	1	4	3		
75				Marble (67.0-89.9) fg to mg xstaline pure	0	0	0	0	0		
80				Silicious zones 3-5 cm wide occur regularly, (still highly calcareous)	0	0	0	1	0		
85					0	0	0	1	0		
90					0	0	0	1	0		

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				Ag, Au
		FROM	TO	WIDTH		% Sn	% WO <sub>3</sub>	% Cu	% Zn	
As before	<1%									
Stron. fg masses, blebular mag. Miner Po along fractures. Van(?) in calcite vein @ 63m	5% 0%	66.2	67.0	0.8	62493	0.40	0.005			
NOVF										

	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					Bio	Fl	Trem <sub>act</sub>	S <sub>i</sub>	Gar			
					A	B	C	D	E			
	100			SKARN (89.9 → 91.2) Silicate - andradite - tremolite skarn. 2, 7cm zones of prismatic, xstaline, green andradite @ 89.9 & 90.7. 90.7 to 91.2 tremolite rich zone. Rest is silicious (ie drk-grey chert ⊕ massive tremolite(?))	0	0	3	4	2			
95	100			Marble (91.2 → 103.0) fg xstaline, pure	0	0	0	1	0			
	100											
-100	100											
	100											
	100											
105	100			SKARN (103.0 → 111.9) (103.0 → 104.0) Massive, eg. prismatic green andradite garnet showing zoning. Also a few eg. xstale of calcite. (104.0 → 104.7) marble ⊕ minor andradite (104.7 → 105.3) M.S. (105.3 → 106.4) andradite garnet (106.4 → 107.3) M.S. (107.3 → 108.7) andradite garnet, massive, fg, xstaline (108.7 → 109.6) M.S. (109.6 → 111.9) M.S. ⊕ andradite garnet zone from 109.6 → 109.9. Veining becomes evident @ 107 & increase in intensity towards the base of the skarn; 107 → 109 5 per m. 109 → 110 10/m 110 → 112 16/m. Veins are 1mm to 9mm thick, usually @ 60° & 140°, but may also take on other attitudes. Veins are light-pale green, silicious, minor-sulphides massive, composed of sericite(?), minor fluorite, & silicate material. Tremolite observed @ 111.6 → 111.9. Actinolite @ 105.35 Tremolite-actinolite @ 105.5. Strn is none-calcareous except for a few minor joints	0	0	0	4	4			
	100				0	1	0	1	0			
	100				0	1	0	4	4			
	100				0	1	0	1	0			
	100				0	0	0	4	4			
	100				0	1	0	1	0			
110	100				0	2	1	2	0			
	100				0	2	1	2	0			
	100				2	2	0	2	0			
-115	100				2	2	0	2	0			
	100											
	100											
120				Bio Hrn (111.9 → EOH) Poor to nil fol. Qtz veining (1m → 3mm) @ 150° & 60° containing Fluorite, Arsenopy & minor Po. Density 15/m Joints @ 30°, may be dusted ⊕ calcite								
125												
130												
135												

EOH 118.0





DRILL LOG

PROJECT MINDY	GROUND ELEV. 1649.5?
HOLE NO. 81-6	BEARING _____
LOCATION 1+57.3 N 0+45 VW	DIP Vertical
LOGGED BY D. ONESCHUK	TOTAL LENGTH 63.1m (207')
DATE Aug 18, 1981	HORIZONTAL PROJECT _____
CONTRACTOR B.B.S. Diamond Drilling	VERTICAL PROJECT _____
CORE SIZE BQ	<b>ALTERATION SCALE</b> 
DATE STARTED Aug 18, 1981	
DATE COMPLETED Aug 20, 1981	<b>TOTAL SULPHIDE SCALE</b> 
DIP TESTS _____	
COMMENTS Due to close proximity of a major fault, <u>all</u> core is <u>extremely</u> broken, and often very well weathered or pulverized, making logging difficult to do with the same details as the other holes.	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					Bio	Fl	Tram out	Si	Cor			
					A	B	C	D	E			
0 - 13.4				Casing to 13.4m								
13.4 - 18.7	95%			(13.4 - 18.7) Bio Hrnfls. Extremely fractured	2	0	0	2	0			
18.7 - 23.0	37%			Joints @ 35°, lined w/ limonite. foliation med to poor at 35° to 50° Rk v. homogeneous, (similar to Arg.) ; microgranular. Small Breccia zone @ 14.9.	2	0	0	2	0			
23.0 - 47.2	38%	WF4		(18.7 - 47.2) Fault zone. Mostly Rock flour, containing c.g. breccia frags composed of Bio Hrnfls(?). V well altered to a pale grn. Good limonitic staining between 18.7 & 23m, "Core" is v soft, often sandy, (44.9 - 47.2)	0	0	0	2	0			
47.2 - 45.0	16%			Marble core frag in fault, very limonitic along fractures. Small zone of M.S.(?) 1.5 cm wide @ 45m & 46.8 to 47.2 but, is mostly limonite. original Min Pol(?) other minerals not distinguishable	0	0	0	2	0			
45.0 - 33.0	26%				0	0	0	2	0			
33.0 - 21.0	21%				0	0	0	2	0			
21.0 - 10.0	33%				0	0	0	2	0			
10.0 - 6.0	10%				0	0	0	2	0			
6.0 - 0.0	6%				0	0	0	2	0			
0.0 - 0.0	95%				0	0	0	2	0			
0.0 - 0.0	0%				0	0	0	2	0			
0.0 - 0.0	37%				0	0	0	2	0			
0.0 - 0.0	0%				0	0	0	2	0			
0.0 - 0.0	71%				0	0	0	2	0			







DRILL LOG

PROJECT MINDY	GROUND ELEV. 1648.5 m
HOLE NO. 81-7	BEARING —
LOCATION 3 + 00 N 1 + 37.5 W	DIP Vert
	TOTAL LENGTH 108-8 m (357')
LOGGED BY Douglas Oneschuk	HORIZONTAL PROJECT —
DATE Aug 22, 1981	VERTICAL PROJECT —
CONTRACTOR BBS Diamond Drilling	ALTERATION SCALE 
CORE SIZE BQ	TOTAL SULPHIDE SCALE 
DATE STARTED Aug 22, 1981	
DATE COMPLETED Aug 24, 1981	
DIP TESTS —	
COMMENTS Ground generally well broken (ie 10 to 20 fractures per m)	LEGEND





DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Bio	Fl	Trans act	Si	Gar		
					A	B	C	D	E		
50	100			Bio Hornfels (46.5-56.4) "Transition zone" to 46.1 showing excellent fol @ 55°. Calcite along joints. Rt shows relic textures of original grit. Past 46.1 fol is poor to nil. Diopside(?) grains appear @ 47.8. Joints @ 140°; 45°. Bleached zone (47.2-47.6) mg. Cherty zone (50.1-50.7) contains numerous small (10cm) bleached zones throughout. fol good to excellent past 48.3 @ silicate lenses fg to cg. Minor original gritty texture, minor chlorite, mainly in chert zones, accompanied by minor sericite. Po ass @ chlorite	0	0	0	3	0		
55	59		F2	Chert (56.4-100.9) General description as before but no foliations, calcite present in joints, no arg bands, no sericite. faults described as before. Chlorite content rises as depth of hole increases, as does sericite & Po-Py content. At 64.2m chert becomes more granular, sil similar to bleached zones, fol of chlorite become evident, as well as small areas of V. weak Bio. Hornfels showing random fol around silica lenses. Calcite ceases to line joints @ 65.2. At 70.2, hornfelsic zones take on a cherty-sericitic character, still containing sil. lenses. Calcite lining joints persists up again @ 70.9 to 74.3. Jointing @ 65°; 30°. Chlorite content drops @ 69.3, it is only observed lining joints. One chlorite zone @ 74.1-74.3. Hornfelsic texture fairly strong between 70.0-74.5. fol 60° to convoluted. "Normal" Chert resumes at 74.5m, chloritic fol @ 60° numerous & excellent. Py veinlets occasionally seen. Bio. Hornfels zone, (77.4-80.4) showing excellent sil. lenses. From 74.5, chert has a fair lenticular-brecciated texture, @ chlorite lining, all fractures. No calcite in joints until 83.3m. Hornfelsic zone 83.7-87.7 still showing chert; "bleached zone" textures. fol poor to excellent @ 80°, top and bottom meter of zone has lenticular-brecciated texture. Chlorite nil till last 0.4m of zone, middle areas show remnant grit texture. Joints still lined @ green powdery chlorite(?) which turns HCl green; bleaches out. Joints @ 40°; 15°	1	0	0	2	0		
60	95		FI	Chert (56.4-100.9) General description as before but no foliations, calcite present in joints, no arg bands, no sericite. faults described as before. Chlorite content rises as depth of hole increases, as does sericite & Po-Py content. At 64.2m chert becomes more granular, sil similar to bleached zones, fol of chlorite become evident, as well as small areas of V. weak Bio. Hornfels showing random fol around silica lenses. Calcite ceases to line joints @ 65.2. At 70.2, hornfelsic zones take on a cherty-sericitic character, still containing sil. lenses. Calcite lining joints persists up again @ 70.9 to 74.3. Jointing @ 65°; 30°. Chlorite content drops @ 69.3, it is only observed lining joints. One chlorite zone @ 74.1-74.3. Hornfelsic texture fairly strong between 70.0-74.5. fol 60° to convoluted. "Normal" Chert resumes at 74.5m, chloritic fol @ 60° numerous & excellent. Py veinlets occasionally seen. Bio. Hornfels zone, (77.4-80.4) showing excellent sil. lenses. From 74.5, chert has a fair lenticular-brecciated texture, @ chlorite lining, all fractures. No calcite in joints until 83.3m. Hornfelsic zone 83.7-87.7 still showing chert; "bleached zone" textures. fol poor to excellent @ 80°, top and bottom meter of zone has lenticular-brecciated texture. Chlorite nil till last 0.4m of zone, middle areas show remnant grit texture. Joints still lined @ green powdery chlorite(?) which turns HCl green; bleaches out. Joints @ 40°; 15°	0	0	0	4	0		
65	100		F2	Chert (56.4-100.9) General description as before but no foliations, calcite present in joints, no arg bands, no sericite. faults described as before. Chlorite content rises as depth of hole increases, as does sericite & Po-Py content. At 64.2m chert becomes more granular, sil similar to bleached zones, fol of chlorite become evident, as well as small areas of V. weak Bio. Hornfels showing random fol around silica lenses. Calcite ceases to line joints @ 65.2. At 70.2, hornfelsic zones take on a cherty-sericitic character, still containing sil. lenses. Calcite lining joints persists up again @ 70.9 to 74.3. Jointing @ 65°; 30°. Chlorite content drops @ 69.3, it is only observed lining joints. One chlorite zone @ 74.1-74.3. Hornfelsic texture fairly strong between 70.0-74.5. fol 60° to convoluted. "Normal" Chert resumes at 74.5m, chloritic fol @ 60° numerous & excellent. Py veinlets occasionally seen. Bio. Hornfels zone, (77.4-80.4) showing excellent sil. lenses. From 74.5, chert has a fair lenticular-brecciated texture, @ chlorite lining, all fractures. No calcite in joints until 83.3m. Hornfelsic zone 83.7-87.7 still showing chert; "bleached zone" textures. fol poor to excellent @ 80°, top and bottom meter of zone has lenticular-brecciated texture. Chlorite nil till last 0.4m of zone, middle areas show remnant grit texture. Joints still lined @ green powdery chlorite(?) which turns HCl green; bleaches out. Joints @ 40°; 15°	0	0	0	4	0		
70	100		FI	Chert (56.4-100.9) General description as before but no foliations, calcite present in joints, no arg bands, no sericite. faults described as before. Chlorite content rises as depth of hole increases, as does sericite & Po-Py content. At 64.2m chert becomes more granular, sil similar to bleached zones, fol of chlorite become evident, as well as small areas of V. weak Bio. Hornfels showing random fol around silica lenses. Calcite ceases to line joints @ 65.2. At 70.2, hornfelsic zones take on a cherty-sericitic character, still containing sil. lenses. Calcite lining joints persists up again @ 70.9 to 74.3. Jointing @ 65°; 30°. Chlorite content drops @ 69.3, it is only observed lining joints. One chlorite zone @ 74.1-74.3. Hornfelsic texture fairly strong between 70.0-74.5. fol 60° to convoluted. "Normal" Chert resumes at 74.5m, chloritic fol @ 60° numerous & excellent. Py veinlets occasionally seen. Bio. Hornfels zone, (77.4-80.4) showing excellent sil. lenses. From 74.5, chert has a fair lenticular-brecciated texture, @ chlorite lining, all fractures. No calcite in joints until 83.3m. Hornfelsic zone 83.7-87.7 still showing chert; "bleached zone" textures. fol poor to excellent @ 80°, top and bottom meter of zone has lenticular-brecciated texture. Chlorite nil till last 0.4m of zone, middle areas show remnant grit texture. Joints still lined @ green powdery chlorite(?) which turns HCl green; bleaches out. Joints @ 40°; 15°	0	0	0	4	0		
75	100		FI	Chert (56.4-100.9) General description as before but no foliations, calcite present in joints, no arg bands, no sericite. faults described as before. Chlorite content rises as depth of hole increases, as does sericite & Po-Py content. At 64.2m chert becomes more granular, sil similar to bleached zones, fol of chlorite become evident, as well as small areas of V. weak Bio. Hornfels showing random fol around silica lenses. Calcite ceases to line joints @ 65.2. At 70.2, hornfelsic zones take on a cherty-sericitic character, still containing sil. lenses. Calcite lining joints persists up again @ 70.9 to 74.3. Jointing @ 65°; 30°. Chlorite content drops @ 69.3, it is only observed lining joints. One chlorite zone @ 74.1-74.3. Hornfelsic texture fairly strong between 70.0-74.5. fol 60° to convoluted. "Normal" Chert resumes at 74.5m, chloritic fol @ 60° numerous & excellent. Py veinlets occasionally seen. Bio. Hornfels zone, (77.4-80.4) showing excellent sil. lenses. From 74.5, chert has a fair lenticular-brecciated texture, @ chlorite lining, all fractures. No calcite in joints until 83.3m. Hornfelsic zone 83.7-87.7 still showing chert; "bleached zone" textures. fol poor to excellent @ 80°, top and bottom meter of zone has lenticular-brecciated texture. Chlorite nil till last 0.4m of zone, middle areas show remnant grit texture. Joints still lined @ green powdery chlorite(?) which turns HCl green; bleaches out. Joints @ 40°; 15°	1	0	0	4	0		
80	100		FI	Chert (56.4-100.9) General description as before but no foliations, calcite present in joints, no arg bands, no sericite. faults described as before. Chlorite content rises as depth of hole increases, as does sericite & Po-Py content. At 64.2m chert becomes more granular, sil similar to bleached zones, fol of chlorite become evident, as well as small areas of V. weak Bio. Hornfels showing random fol around silica lenses. Calcite ceases to line joints @ 65.2. At 70.2, hornfelsic zones take on a cherty-sericitic character, still containing sil. lenses. Calcite lining joints persists up again @ 70.9 to 74.3. Jointing @ 65°; 30°. Chlorite content drops @ 69.3, it is only observed lining joints. One chlorite zone @ 74.1-74.3. Hornfelsic texture fairly strong between 70.0-74.5. fol 60° to convoluted. "Normal" Chert resumes at 74.5m, chloritic fol @ 60° numerous & excellent. Py veinlets occasionally seen. Bio. Hornfels zone, (77.4-80.4) showing excellent sil. lenses. From 74.5, chert has a fair lenticular-brecciated texture, @ chlorite lining, all fractures. No calcite in joints until 83.3m. Hornfelsic zone 83.7-87.7 still showing chert; "bleached zone" textures. fol poor to excellent @ 80°, top and bottom meter of zone has lenticular-brecciated texture. Chlorite nil till last 0.4m of zone, middle areas show remnant grit texture. Joints still lined @ green powdery chlorite(?) which turns HCl green; bleaches out. Joints @ 40°; 15°	0	0	0	4	0		
85	100		FI	Chert (56.4-100.9) General description as before but no foliations, calcite present in joints, no arg bands, no sericite. faults described as before. Chlorite content rises as depth of hole increases, as does sericite & Po-Py content. At 64.2m chert becomes more granular, sil similar to bleached zones, fol of chlorite become evident, as well as small areas of V. weak Bio. Hornfels showing random fol around silica lenses. Calcite ceases to line joints @ 65.2. At 70.2, hornfelsic zones take on a cherty-sericitic character, still containing sil. lenses. Calcite lining joints persists up again @ 70.9 to 74.3. Jointing @ 65°; 30°. Chlorite content drops @ 69.3, it is only observed lining joints. One chlorite zone @ 74.1-74.3. Hornfelsic texture fairly strong between 70.0-74.5. fol 60° to convoluted. "Normal" Chert resumes at 74.5m, chloritic fol @ 60° numerous & excellent. Py veinlets occasionally seen. Bio. Hornfels zone, (77.4-80.4) showing excellent sil. lenses. From 74.5, chert has a fair lenticular-brecciated texture, @ chlorite lining, all fractures. No calcite in joints until 83.3m. Hornfelsic zone 83.7-87.7 still showing chert; "bleached zone" textures. fol poor to excellent @ 80°, top and bottom meter of zone has lenticular-brecciated texture. Chlorite nil till last 0.4m of zone, middle areas show remnant grit texture. Joints still lined @ green powdery chlorite(?) which turns HCl green; bleaches out. Joints @ 40°; 15°	1	0	0	4	0		
90	100		FI	Chert (56.4-100.9) General description as before but no foliations, calcite present in joints, no arg bands, no sericite. faults described as before. Chlorite content rises as depth of hole increases, as does sericite & Po-Py content. At 64.2m chert becomes more granular, sil similar to bleached zones, fol of chlorite become evident, as well as small areas of V. weak Bio. Hornfels showing random fol around silica lenses. Calcite ceases to line joints @ 65.2. At 70.2, hornfelsic zones take on a cherty-sericitic character, still containing sil. lenses. Calcite lining joints persists up again @ 70.9 to 74.3. Jointing @ 65°; 30°. Chlorite content drops @ 69.3, it is only observed lining joints. One chlorite zone @ 74.1-74.3. Hornfelsic texture fairly strong between 70.0-74.5. fol 60° to convoluted. "Normal" Chert resumes at 74.5m, chloritic fol @ 60° numerous & excellent. Py veinlets occasionally seen. Bio. Hornfels zone, (77.4-80.4) showing excellent sil. lenses. From 74.5, chert has a fair lenticular-brecciated texture, @ chlorite lining, all fractures. No calcite in joints until 83.3m. Hornfelsic zone 83.7-87.7 still showing chert; "bleached zone" textures. fol poor to excellent @ 80°, top and bottom meter of zone has lenticular-brecciated texture. Chlorite nil till last 0.4m of zone, middle areas show remnant grit texture. Joints still lined @ green powdery chlorite(?) which turns HCl green; bleaches out. Joints @ 40°; 15°	1	0	0	3	0		
	100			Chert past 87.7 cherty, (no lenticular-brecciated) massive not fractured, contains Qtz-sericite veinlets @ Tr. Arsenopy & dissem Arsenopy	0	0	0	4	0		

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
	<1%								
Bio Hrn. Fg Diss Po	<1%								
	<1%								
	<1%								
Chert; minor Py & Po lining joints & ass @ chlorite (Massive fg Py as a matrix in a fault breccia, and fg. xstaline Arsenopy in a fault @ 60.1 m)	<1%								
as above	<1%								
3mm Py-Qtz veinlet @ 71.3 m. massive fg. xstaline. Py-Po content increase between 71.0 & 74.3. Py as in chlorite vein @ 74.1	1%								
as above	<1%								
2mm massive mg xstaline Arsenopy veins @ 80.4 & 81.4 @ 30'	<1%								
as above	<1%								
Chert, cg xstaline Arsenopy! Disseminated & in veinlets	<1%								

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
95	100			Massive chert, mod. fractured, veins @ 35° Sericite in fractures. Jointing 35°. No calcite till 97.5 minor chlorite in veins. Sericite content rises slightly @ 96m, 2 small brecciated zones (still solid core) 0.2m wide @ 98.3!	0	0	0	4	0		
100	100			96m. Bio. Hermit's A (100-9 → E.O.H.) Good fol @ 90° zones of cg. lenzard chert & silica frags. Chert zones throughout. Chlorite zone 102.4 → 102.6. Chert zones often brecciated, (possibly sheared chert peb conglom.) Sericite ass chert bands, last 0.4m v. sim. to chert peb conglom, but "clast" not quite rounded enough	0	0	0	4	0		
105	100				1	0	0	2	0		
	100				1	0	0	2	0		
				E.O.H., 108.8 m							



DRILL LOG

PROJECT <b>MINDY</b>	GROUND ELEV. <b>1654.0 m</b>
HOLE NO. <b>81-8</b>	BEARING <b>—</b>
LOCATION <b>4 + 00 N</b> <b>1 + 58 W</b>	DIP <b>— Vertical</b>
	TOTAL LENGTH <b>114.9 m (377')</b>
LOGGED BY <b>Douglas Oneschuk</b>	HORIZONTAL PROJECT <b>—</b>
DATE <b>In August 1</b>	VERTICAL PROJECT <b>—</b>
CONTRACTOR <b>B.B.S. Drilling</b>	<b>ALTERATION SCALE</b> 
CORE SIZE <b>BQ</b>	
DATE STARTED <b>Aug 25, 1981</b>	<b>TOTAL SULPHIDE SCALE</b> 
DATE COMPLETED <b>Aug 28, 1981</b>	
DIP TESTS <b>—</b>	
COMMENTS	LEGEND



MINERALIZATION DESCRIPTION

TOTAL SULPHIDE

SAMPLES

FROM

TO

WIDTH

SAMPLE NUMBER

ASSAYS

Bio Hrnfls - Minor fg Diss Py  
ass (w) chlor. Minor fg Diss Po  
ass (w) bleached zones.



<1%

<1%

<1%

<1%

<1%

















<1%

<1%

<1%

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Bio	Fl	Trem act	Si	Gar		
					A	B	C	D	E		
50	100			SKARN (45.1 → 50.6) Chloritic - garnet "transitional" skarn (45.1 → 46) @ 5 mm chlorite veins @ Po cores, massive fg red andradite, 1 one Qtz-flourite vein 1cm thick @ 45.2 "Matrix" is chlorite rich silicate. Andradite-chlorite massive sulphide skarn (46.0 → 48.65) showing alternating 10 → 20 cm zones of chlorite rich & andradite rich skarn, the chlor rich skarn containing 80 → 70% of the M.S. Chlorite vienlets (1 per cm) throughout. Andradite mass fg xstaline Fl rich zone (46.0 → 46.3), but Fl also seen throughout, most common in chloritic zones. Last 30 cm banded M.S. sim. to strat-form deposits. (48.65 → 50.6) M.S. @ minor chlorite vienlets @ 60° (30 per m) Basil contact very sharp	0	1	0	3	1		
55	100			Marble @ small skarn zones as marked (50.6 → 53.1) Marble is pure, mg-fg xstaline. Skarn zones (51.7 → 52.4) 2cm mag band @ top of zone. The rest is mainly marble @ minor fg mass green andradite; mg xstaline tremolite (53.0 → 53.3) massive c.g. prismatic andradite (green & redish) @ minor flourite (57.0 → 57.4) Massive c.g. tremolite (massive) @ minor andradite(?) (57.8 → 58.7) Massive c.g. xstaline, prismatic andradite (green) @ zoning @ massive Arseno @ top of zone for 2cm, c.g. xstalo diss throughout (59.9 → 60.1) Marble, mainly @ c.g. xstaline, prismatic andradite (green); a pink powdery mineral (62.4 → 64.25) Andradite skarn, c.g. xstaline, prismatic, drk green → pale green → red. @ bands of a milky, siltstone-textured silicate first 0.3m shows mostly Si rich marble @ minor andradite(?) in x criss-crossing Si vienlets (79.3 → 80.9) Andradite skarn: massive, xstaline c.g. prismatic @ the milky-buzz silty silicate 81.8 - 0.3m of Andradite; arsenopy	0	0	0	0	0		
60	100			(82.8 → 85.6) drk green → pale green → redish andradite skarn @ marble, minor diss. Arseno. and a light pink fg massive silicate (87.6) 10 cm frag of Bio Hnfls. most contacts are @ 50° to C.A (87.9 → 91.0) Mag vienlets (2 mm max) 8 per m @ 20° & 140°	0	0	0	0	0		
65	100				0	0	0	2	4		
70	100				0	0	0	0	0		
75	100				0	0	0	0	0		
80	100				0	0	0	3	4		
85	100				0	0	0	0	0		
90	100				0	0	0	0	0		

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				OZ T	OZ. T
		FROM	TO	WIDTH		%	%	%	%		
						Su	WO <sub>3</sub>	Cu	Zn		
SKAN, fg. mass Po, Arsenopy in v. violetlets & v. ions of chlor i. qtz. in qtz v. ion	2%	45.1	46.0	0.9	18158	0.010	0.068	0.01	0.01	0.11	0.002
Po, Arsenopy & chalc. fg → mg. Arseno mg → cg blades ass @ Fluorite, Chalc ass @ Po, massive dissem. in matrix or massive blebular or in v. ions. Po ass.	50%	46.0	48.65	2.65	18159	0.03	0.032	0.11	0.01	0.05	0.002
atromaly in blades or needles Chalc v. rich compared to other holes. Last 30 cm contain minor Mag.	90%	48.65	50.6	1.95	18160	1.00	0.007	0.07	0.95	<0.05	<0.002
(48.65 → 50.6) Mag, Po, vonsenite, chalc, Arseno. All mass fg except von which may be mg → cg needles ↓ to banding. banding is thick after 49.2 (ie up to 0.2 m) & weak 48.8 → 49.2 thin banding described by Po, Arseno xstals & Mag. Chalc still rich w/rt Po, & ass with t. Mag shows replacement textures (pseudomorphs) @ 50.2 m. Von ass ⊙ Mag	3%										
(62.4 → 64.25) Cg Arseno in blades & massive blebs	1%										
Mag violetlets	1%										

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Bio	Fl	Tr <sub>act</sub>	Si	Gar		
					A	B	C	D	E		
91.0 - 93.1				(91.0 - 93.1) "Mag. stockwork" in marble 5 vernetz per cm. < 1mm to 4mm wide. larger ones can have Arseno core i/or Tr. diss. Po f chulco. 2 lrgs (20cm) blebs showing convolutions in circular pattern described by Po	0	0	0	0	0		
93.1 - 93.5				(93.1 - 93.5) Massive Mag @ chloritic f Po convolutions. Tr. chulco. also massive von(?)	0	0	0	2	0		
93.5 - 94.4				(93.5 - 94.4) "Transitum skarn" Silicic- tremolite-actinolite - chlorite. pale grnt to whitish green calcite lined joints @ 40°	2	0	0	2	0		
94.4 - 100.8				Bio Hrnfls (94.4 - EOH) poor to med fab @ 80° homogeneous, may show "relie" grnt textures. Chint zone (99.5 - 100.8) Shows fg diss sericite.	0	0	0	0	0		
100.8 - 105.0				Hrnfls shows sericite vernetz past Chint (2 per m). Joints @ 45°	2	0	0	2	0		
105.0 - 110.0											
110.0 - 115.0											
115.0 - 120.0											
120.0 - 125.0											
125.0 - 130.0											
130.0 - 135.0											
135.0 - 140.0											
140.0 - 145.0											
145.0 - 150.0											
150.0 - 155.0											
155.0 - 160.0											

EOH. 377' 114.9

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				oz/T Ag	oz/T Au
		FROM	TO	WIDTH		% Sn	% WO <sub>3</sub>	% Cu	% Zn		
Marble Mag stockwork. see geol disc.	206	91.0	93.1	2.1	18161	0.11	<0.005	0.01	0.01	<0.05	<0.002
See geol disc.	1008	93.1	93.5	0.4	18162	0.64	0.026	0.07	0.42	<0.05	<0.002
Mg. diss & blebular Po	78	93.5	94.4	0.9	18163	0.05	0.027	0.07	0.01	<0.05	0.002
Bio Hmfls	416										
Minor diss Po											
Chert zone; Slightly more Po & Tr chalc. both diss, fg. Also Tr Arseno											

DRILL LOG

PROJECT MINDY 360	GROUND ELEV. 1660.5 m ASL
HOLE NO. 81-9	BEARING
LOCATION 6+50 N x 0+72 W	DIP Vertical
LOGGED BY D. Oneschuk	TOTAL LENGTH 114.9 m (377')
DATE	HORIZONTAL PROJECT
CONTRACTOR B. B. S. Diamond Drilling	VERTICAL PROJECT
CORE SIZE BQ	ALTERATION SCALE
DATE STARTED Aug 29, 1981	<p>absent slight moderate intense</p>
DATE COMPLETED Aug 31, 1981	TOTAL SULPHIDE SCALE
DIP TESTS	<p>traces only &lt; 1% 1% - 3% 3% - 10% &gt; 10%</p>
COMMENTS	LEGEND



MINERALIZATION  
DESCRIPTIONTOTAL  
SULPHIDE

SAMPLES

FROM

TO

WIDTH

SAMPLE  
NUMBER

ASSAYS

Chert; Diss fg Po

&lt;1%

Bio Herfils - Po Py Diss fg  
most conc in chert rich zones  
and in chert lenses in herfils

&lt;1%

Some larger lenses (10cm) may  
contain Py blebs 5cm long.Cherty zone may contain Py  
lenses, 5mm x 10mm. Arsenic  
in some joints. Sulphide  
content increases slightly past  
15.5 m

&lt;1%

&lt;1%

(22.8 - 24.0) Po, chalco  
zone, fg diss f massive  
blebular, f in virelets, conc  
mainly in sil rich zones

&lt;1%

5%

Chlor-Po rich zones (26.0-26.5)  
in chert

2%

Chlorite rich zone (25.4-30.6)  
Po; diss fg ass with chlor

↓

&lt;1%

Chert zone, fg diss Po

&lt;1%

&lt;1%





DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
95					2	0	0	3	0		
100					1	0	0	3	0		
105			F2	Chert (99.5 - 114.9) first 2m contain some Bio horfls as described above. after that "pure" jointing @ 30° & 70°. minor diss chlor. joints lined with limonite. Horfls zone (105.7 - 108.2) after which chert contains slightly more chlor, ser, and fol @ 80° to 90° occur. chlor, ser & fol disappear after a 2 <sup>nd</sup> Horfls zone (111.2 - 111.7) (rich contains "dopside?") Then chert is pure again may contain py stringers and a black stringy material							
110											
115											
120				EOH ; 115.9 m							

MINERALIZATION  
DESCRIPTION

TOTAL  
SULPHIDE

SAMPLES

FROM

TO

WIDTH

SAMPLE  
NUMBER

ASSAYS

Chert: small areas of  
fg. prismatic Py

<1%



Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name) JOHN NEBOCAT	Occupation TECHNICIAN
(Postal Address) #1400 - 750 W. PENDER ST., VANCOUVER, B. C., V6C 1K3	

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:-

- I am the ~~owner~~ agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

MINDY 6 - YA 45014

located at Southeast of peak 6550' Claim Sheet No. 105 C-9  
 in the Watson Lake Mining District, to the value of at least \$ 6851.00  
 dollars, since the 29th. day of August 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. \_\_\_\_\_  
 (Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

MINDY 5 - MINDY 8	YA 45013 - YA 45016	five (5) year renewal
MINDY 41 - MINDY 46	YA 66619 - YA 66624	five (5) year renewal
MINDY 57 - MINDY 62	YA 66635 - YA 66640	three (3) year renewal

- The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

AUGUST 29 - AUGUST 31, 1981

DIAMOND DRILLING HOLE MINDY 81-9

Core drilling: 0'-377' = 377' @ \$18.00/foot = \$6786.00  
 Casing: 0'-13' = 13' @ \$5.00/foot = \$ 65.00  
 total = \$6851.00

Sworn before me at Vancouver, B.C.  
 this 16 day of February 1982

Notary Public

John Nebocat  
 Applicant.



Department of Indian Affairs and Northern Development  
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



(Name) JOHN NEBOCAT	Occupation TECHNICIAN
(Postal Address) #1400 - 750 W. PENDER ST., VANCOUVER, B. C., V6C 1K3	

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:-

- I am the ~~XXXXXX~~ agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

MINDY 11 - YA 45019

Situated at Southeast from peak 6550' Claim Sheet No. 105 C-9  
in the Watson Lake Mining District, to the value of at least \$ 9270.00  
dollars, since the 10th. day of August 19 81,

to represent the following mineral claims under the authority of Grouping Certificate No. \_\_\_\_\_  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

MINDY 1 - MINDY 4	YA 45009 - YA 45012	five (5) year renewal
MINDY 9 - MINDY 12	YA 45017 - YA 45020	five (5) year renewal
MINDY 49 - MINDY 56	YA 66627 - YA 66634	five (5) year renewal

- The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

AUGUST 10 - AUGUST 12, 1981

DIAMOND DRILLING HOLE MINDY 81-4

Core drilling: 0'-515' = 515' @ \$18.00/foot = \$9270.00

Sworn before me at Vancouver, B.C.  
this 12 day of February 19 82  
\_\_\_\_\_  
Notary Public

John Nebocat  
Applicant.

090987



Department of Indian Affairs and Northern Development  
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	JOHN NEBOCAT	Occupation	TECHNICIAN
(Postal Address)	#1400 - 750 W. PENDER ST., VANCOUVER, B. C. , V6C 1K3		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:-

- I am the ~~owner~~ agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

MINDY 13 - YA 45021

situated at Southeast of peak 6550' Claim Sheet No. 105 C-9  
in the Watson Lake Mining District, to the value of at least \$8874.00  
dollars, since the 1st. day of August 19 81,

to represent the following mineral claims under the authority of Grouping Certificate No. \_\_\_\_\_  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

MINDY 13 - MINDY 16	YA 45021 - YA 45024	five (5) year renewal
MINDY 33 - MINDY 40	YA 66611 - YA 66618	five (5) year renewal
MINDY 47, MINDY 48	YA 66625, YA 66626	five (5) year renewal
MINDY 63, MINDY 64	YA 66641, YA 66642	three (3) year renewal

- The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

AUGUST 1 - AUGUST 4, 1981

DIAMOND DRILLING HOLE MINDY 81-1

Core drilling: 0' - 493' = 493' @ \$18.00/foot  
= \$8874.00

Sworn before me at Watson Lake B.C.  
this 15 day of February 19 81

Notary Public

John Nebocat  
Applicant.

090987

L 0 L 1 N L 2 N L 3 N L 4 N L 5 N L 6 N L 7 N L 8 N L 9 N L 10 N



MINDY 9  
YA45017

MINDY 11  
YA45019

MINDY 13  
YA45021

MINDY 2  
YA45010

MINDY 4  
YA45012

MINDY 6  
YA45014

- 6
- 5
- 4
- 3
- 2
- 1

**SKARN 1:** IRIDESCENT, BLUE-BLACK - WEATHERING TREMOLITE MARBLE SKARN

**SKARN 2:** GREEN, FIBROUS IDOCRASE - RED ANDRADITE SKARN

**SKARN 3:** MAGNETITE - VONSENITE - HÜLSITE - FLUOBORITE - DIOPSIDE - GROSSULARITE SKARN.

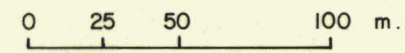
IMPURE, THINLY-BEDDED LIMESTONE

MAROON TO GREY, BIOTITE - HORNFELS

YELLOW TO WHITE, PYRITIC QUARTZITE

- AREA OF OUTCROP
- x FLOAT
- GEOLOGIC CONTACT
- ~ FAULT
- BEDDING, SHOWING DIP
- - - CLAIM BOUNDARY

CONTOUR INTERVAL: 15 m.



090987

NEWMONT EXPLORATION OF CANADA LTD.

MINDY CLAIMS - GEOLOGY

SCALE 1 : 2500	LOCATION 105 C-9	DATE FEB. 15, 1982
SURVEY BY J. NEBOCAT	DRAWN BY J. NEBOCAT	NO. FIGURE

NCI 242 - N.E.C.