

016192105-K-2

DRILL LOGS: SWIM
LAKES AREA

BETA, NASTY, MOR
CUB, LEA, SEA

DRILL LOGS: SWIM
LAKES AREA

EXPLORATION NOTES

① SUMMARY OF DIAMOND DRILL AND ROTARY DRILL HOLES SWIM LAKES AREA

WEST SECTOR
SOUTH OF SWIM
LAKE

LEA CLAIMS

66-L1

- 0-55 - OVERBURDEN
80-400 - graphite phyllite,
some brecciation and
quartz stringers
400-450 - graphite phyllite,
narrow porphyritic dyke

66-L2

- 0-80 - overburden
90-240 - graphite phyllite,
brecciated, quartz
stringers
240-285 - quartz diorite

66-L3

- 0-122 - overburden
122-162 - phyllite with
graphite inclusions
162-182 - granodiorite
182-270 - graphite phyllite
some granodiorite lenses.

② SOUTH SECTOR

MOR CLAIMS

- 0-35 - overburden
35-75 - chlorite phyllite
75-115 - quartz chlorite mica
sericite phyllite
115-175 - chlorite biotite
phyllite
- chlorite biotite sericite
phyllite, chlorite
- pyrophyllite stringers
275-390 - quartz chlorite biotite
schist
400-440 - higher grade schist
probably grading into
hornfels.

WEST SEA ZONE

66-S1

- 0-24 - overburden
- 25-115 - light grey graphitic phyllite
- 115-318 - dark grey graphitic phyllite
minor p. white in foliations.
- 318-340 - phyllite - graphitic content
grading to quartzite
- 340-505 - quartzite phyllite, minor
disseminated p. white,
sericitic in sections; banded
quartzite in places.

66-S2

- 0-113 - overburden
- 120-226 - graphitic phyllite
- 226-313 - graphitic schist
- 313-440 - quartzite phyllite
- 440-529 - graphitic phyllite

66-S3

- 0-70 - overburden
- 90-265 - graphitic phyllite
- 265-416 - chlorite phyllite

66-S4

- 0-53 - overburden
- 53-90 - graphitic phyllite
- 90-168 - quartzite phyllite
quartz veins p. white,
chlorite in stringers
- 168-247 - graphitic phyllite
- 247-295 - chlorite graphitic
phyllite
- 295-400 - very quartzite
heavily crumpled in
sections
- 442 - end of hole.

③ East Sea Zone

(1967 Gravity Grid)

68-51 -

0-90 - overburden

90-440 - Chlorite sericite schist

440-840 - Chlorite phyllite

840-920 - Chlorite graphitic phyllite

920-981 - Graphitic sericite phyllite

④ North Sea Zone

68-52

0-8 - overburden

0-32 - Chlorite sericite schist

32-92 - greenstone

92-140 - Chlorite schist

140-147 - greenstone

147-361 - Chlorite schist

361-~~404~~
638 - graphitic, chlorite, sericite schist

3 EAST SECTOR

(5)

Masty

NRH 1 -	0 - 25	overburden
	25 - 85	seriate schist
NRH 2 -	0 - 40	overburden.
	41 - 125	dark bluish phyllite
NRH 3 -	0 - 590	dark bluish phyllite seriate in places.

CUB

CRH 1 -	0 - 125	overburden
	126 - 340	quartzose seriate schist, traces of galena. chalc. pyrr. Pyr.
	341 - 800	seriate schist? unit 14 (Furley?)
CRH 2 -	0 - 100	overburden
	101 - 360	seriate schist, bands of quartzose rocks.
	361 - 800	graphitic bluish, quartzose schist
CRH 3 -	0 - 50	overburden
	51 - 184	quartz seriate schist
	185 - 200	seriate schist
	201 - 560	quartz seriate schist
CRH 5	0 - 90	overburden
	11 - 550	seriate schist

NORTH SECTOR.

(6)

BETA CLAIMS

BRH 1 - 0-90 overburden
84-160 - sericite schist
161-190 - quartz sericite schist
191-230 - graphite schist
231-340 - quartz sericite schist

BRH 2 - 0-70 - overburden
71-125 - quartz sericite schist
126-250 - graphite schist
251-445 - quartz sericite schist

BRH 3 - 0-210 - overburden
211-265 - quartz sericite schist
266-490 - graphite schist.

Recommendations from Previous Reports

(7)

From Fairby '65 Beta Group.

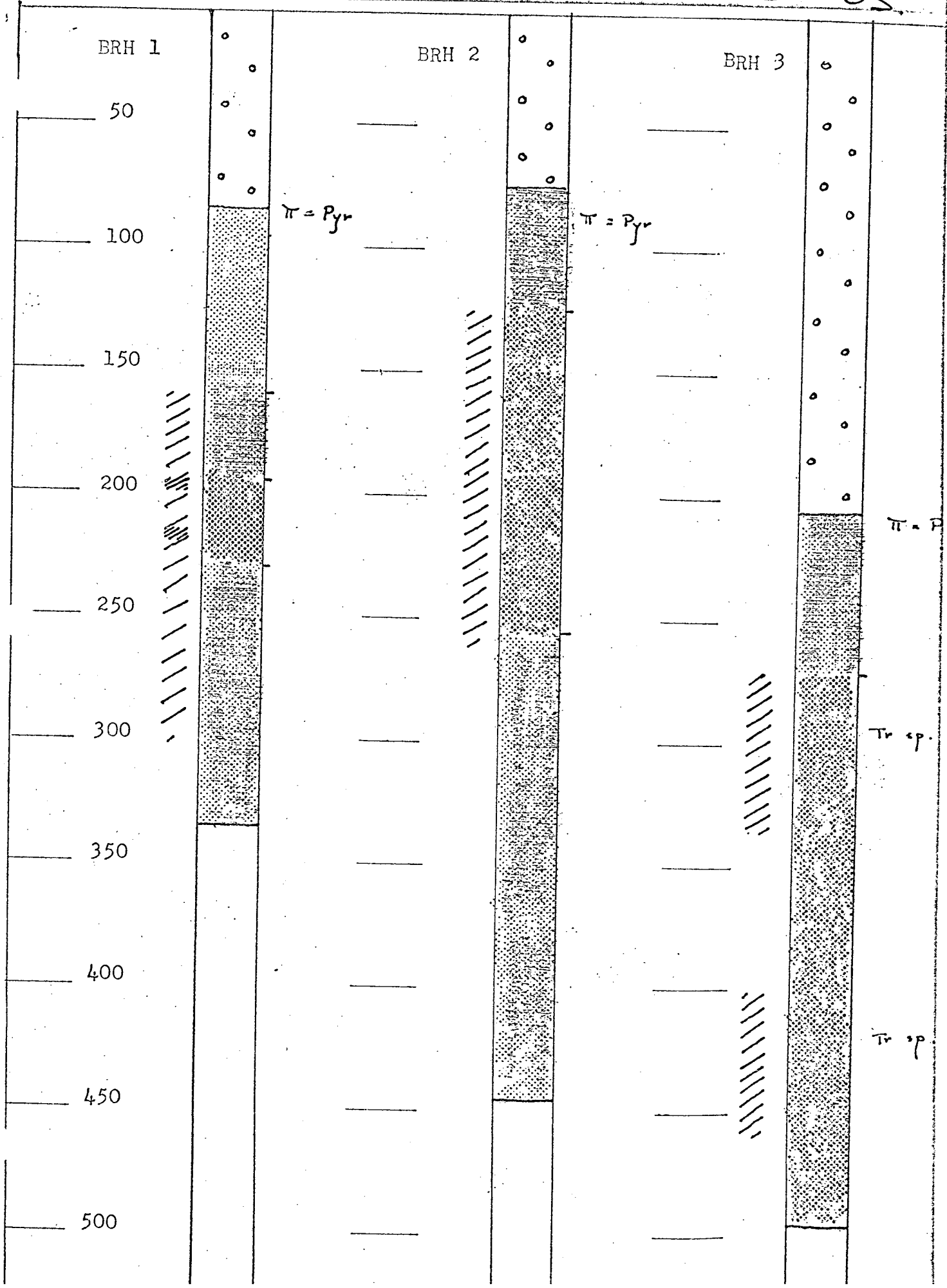
- Similar mineralization and rock types to the Cub Group indicate a very large area of low mineralization. The proper interpretation of control and genesis could well lead to a higher grade sulphide concentration somewhere in the vicinity possibly at greater depth than presently being explored.

Follow up drilling is warranted. . . .
Considering the area of geophysical anomalies, existing drilling only comprises a barely minimum amount of coverage. A fresh interpretation of and approach to the geophysical data in the light of subsequent experience in the area will assist.

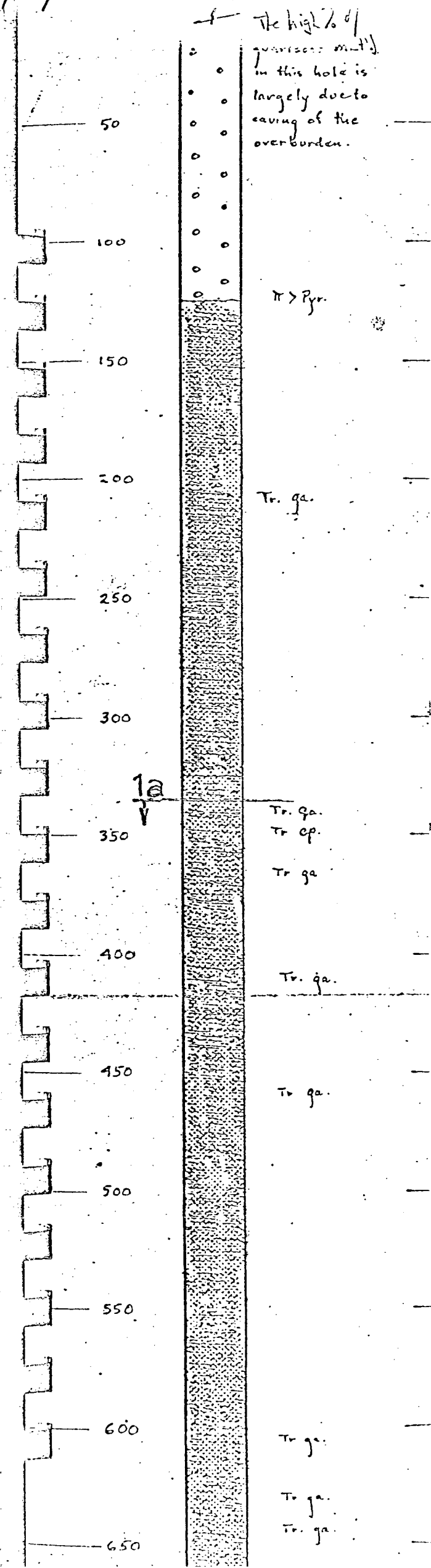
Nasty Group (North) Adairson '66

. . . . geophysical results can be related to some extent to ground level values
of singular interest is the northerly strike of these anomalous trends. This is in marked contrast to the northwestern trends of most other electromagnetic inductions in the Annot Range district.

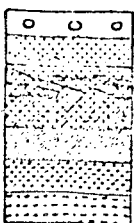
BETA DRILL LOGS



CRH-1



Rock Types:



- Overburden
- Sericitic Schist
- Quartzose Sericitic Schist
- Chloritic Sericitic Schist
- Greenstone, Chlorite Schist
- Graphitic Schist
- Limy Sediments

CRH 3

Pyrochloite between
55 - 200 contains
Ni. by chem. test

$\pi = \text{Pyr}$

CRH 5

50

100

150

200

250

300

350

400

450

500

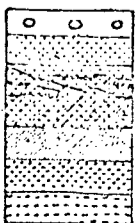
550

$\pi > \text{Pyr}$
5% \approx 1%
throughout.

Tr. ga.

Tr. ga.

Rock Types:



- Overburden
- Sericite Schist
- Quartzose Sericite Schist
- Chloritic Sericite Schist
- Greenstone, Chlorite Schist
- Graphitic Schist
- Limy Sediments

600

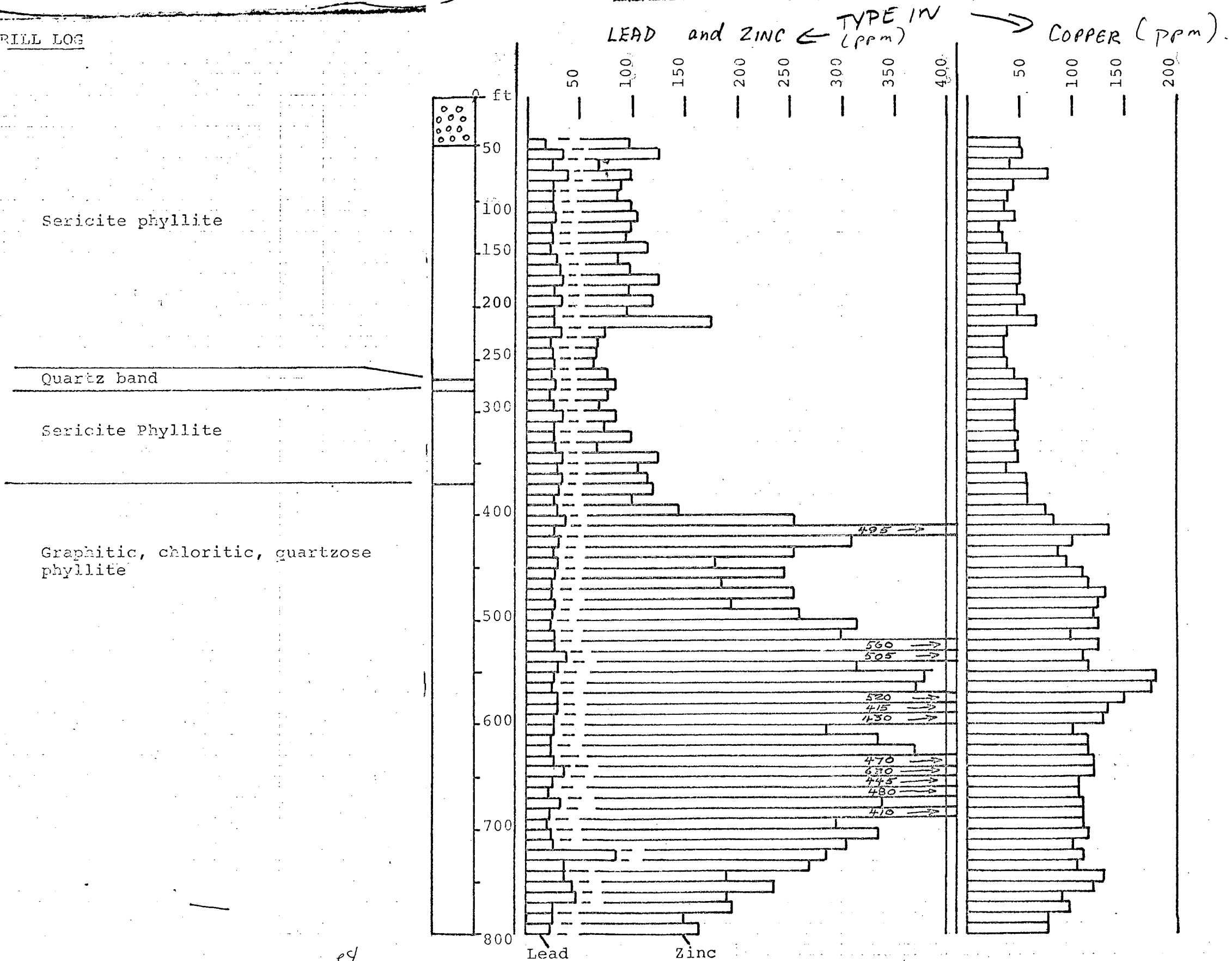
650

DYNASTY EXPLORATIONS LIMITED

DRILL LOG FOR Cub Rotary Hole # 2 (1965)
CAPA Claims (Former Cub Claims) 105K-2

GEOCHEMICAL PROFILE FOR CUB ROTARY HOLE # 2 (1965)
CAPA CLAIMS (Former Cub Claims) 105K-2

DRILL LOG



Geology By: J.P. Fairly^{ed} 1965
Geochemical Analysis: Barringer REsearch
by HClO₄ extraction (1971)

DYNASTY EXPLORATIONS LIMITED

Drill Log for Nasty Rotary Hole # 3 (1965)
ECHO Claims (Former Nasty Claim Gp.) 105K 2

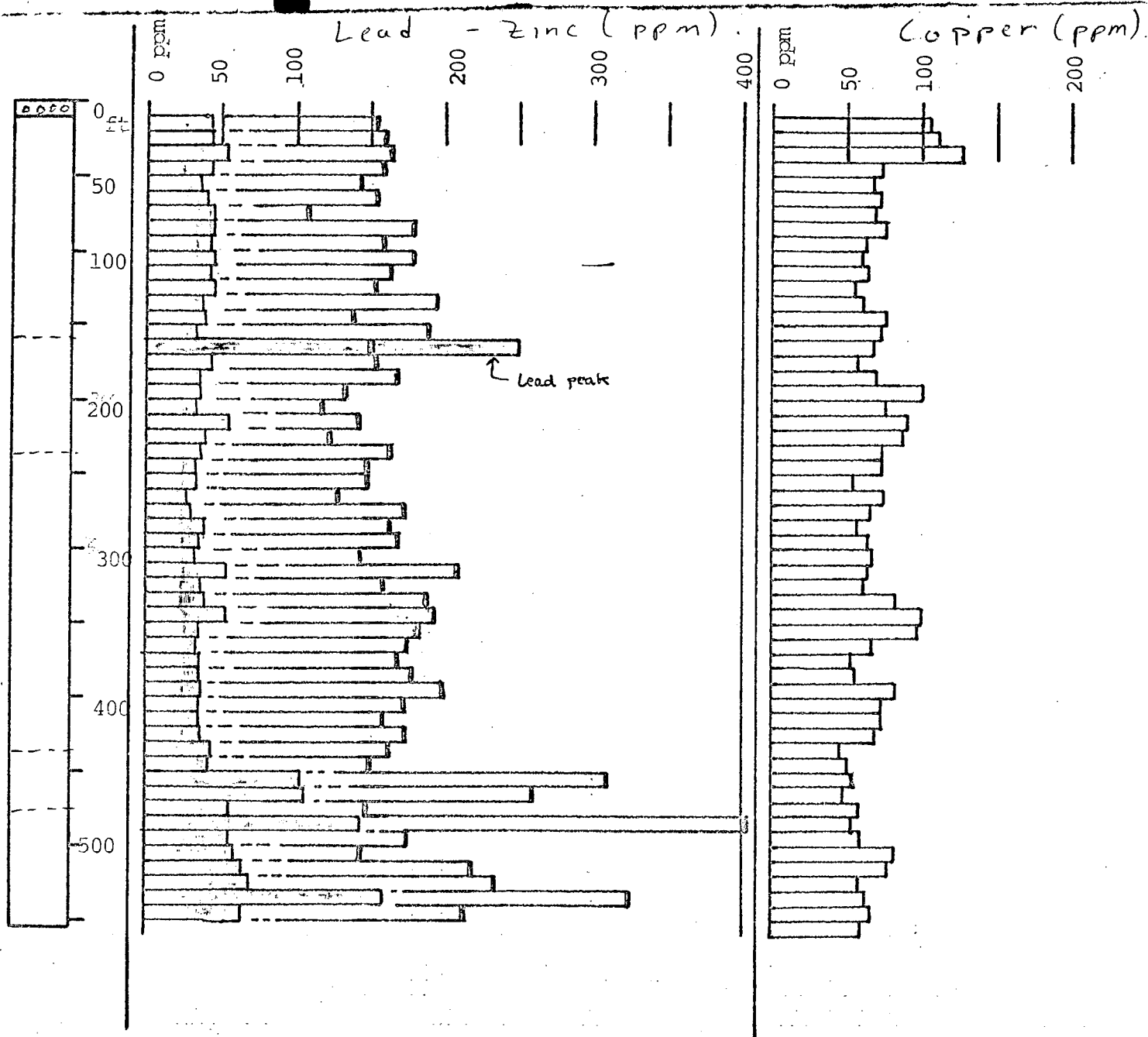
Geochemical profile for NASTY Rotary Hole # 3
ECHO CLAIMS (former Nasty Claim Gp.) 105K -2

DRILL LOG

Dark sericite schist - bedrock to bottom of hole

Very minor galena in approx. 1% sulphides

Minor galena in approx. 2% sulphides



Geology : by J. F. Fairley (1965)
Geochem : by Barringer Research
HClO₄ extraction. (1971)

DIAMOND DRILL CORE ON "ED CLAIMS"
(~ 4 mi S of Cub Lake)

Locations of holes not known. Core is badly messed up & labeling on boxes is faded. Core for 6 holes is present. Decipherable log info.:

DDH 3 - Qtz-ser-bio schist/hornfels to 137 feet, where it hits gneiss. Hole ends at 210 FT, still in gd.

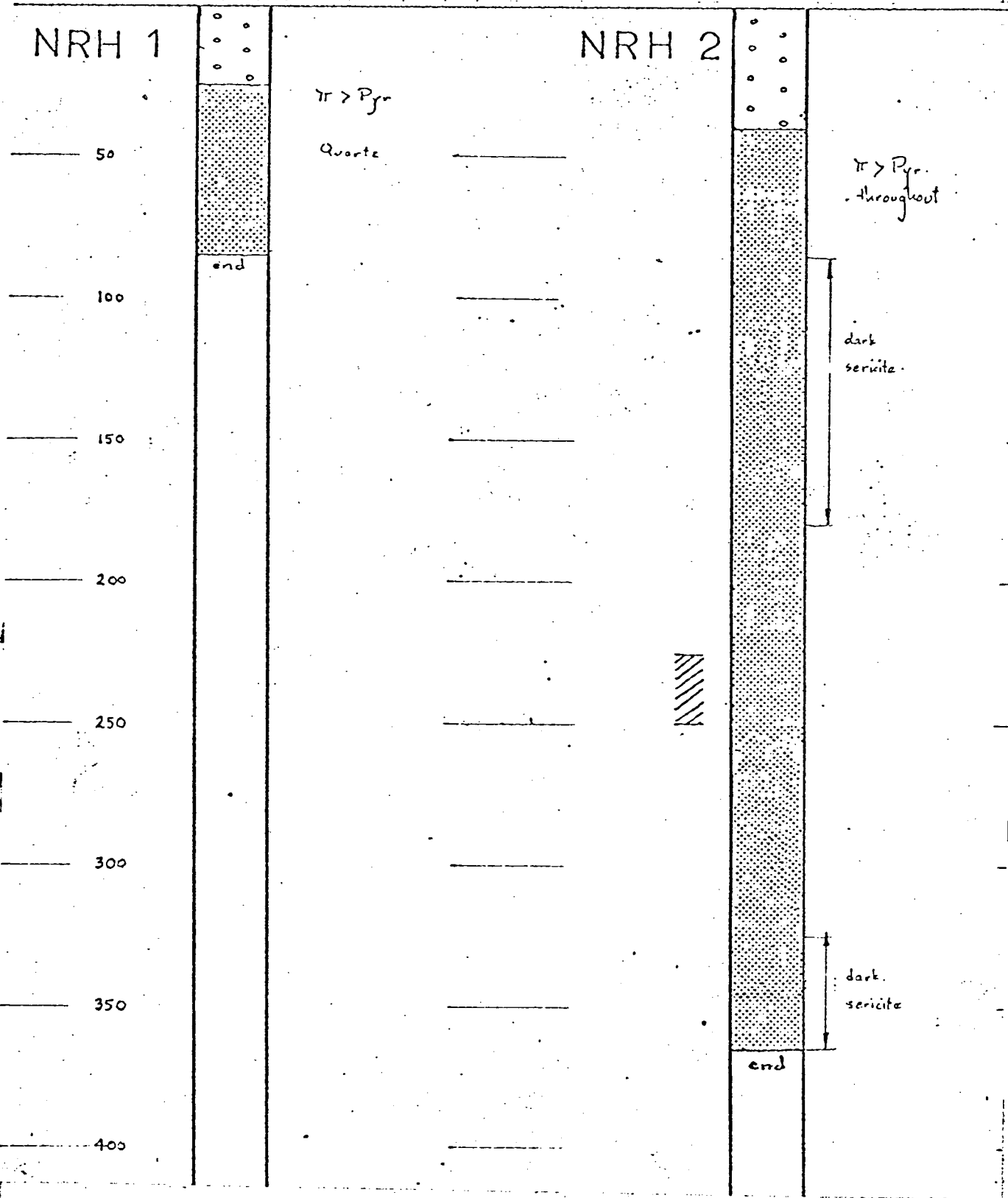
DDH 4 - gd from bedrock to 300 FT

DDH 5 - schist as above to 100 FT, then alaskite grading into gd.

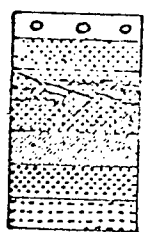
DDH 6 - schist as above.

A few samples were taken from the core boxes where hole numbers and depths were readable.

Both the gd and the schist outcrop abundantly in the vicinity. Schist is definite unit 2, probably from near the top of the unit - i.e. 2c.



Rock Types:



- Overburden
- Sericite Schist
- Quartzose Sericite Schist
- Chloritic Sericite Schist
- Greenstone, Chlorite Schist
- Graphitic Schist
- Limy Sediments

J.F. Fairley-July 1965

LEGEND FOR D.D.H. PLOTS

SCALE 1" = 50'

- Sericite schist
- Sericite schist with fine-granular quartzose bands
- Greenstone, chlorite schist, silicified "cherty" looking rock
- Limestone rocks.
- Porphyry

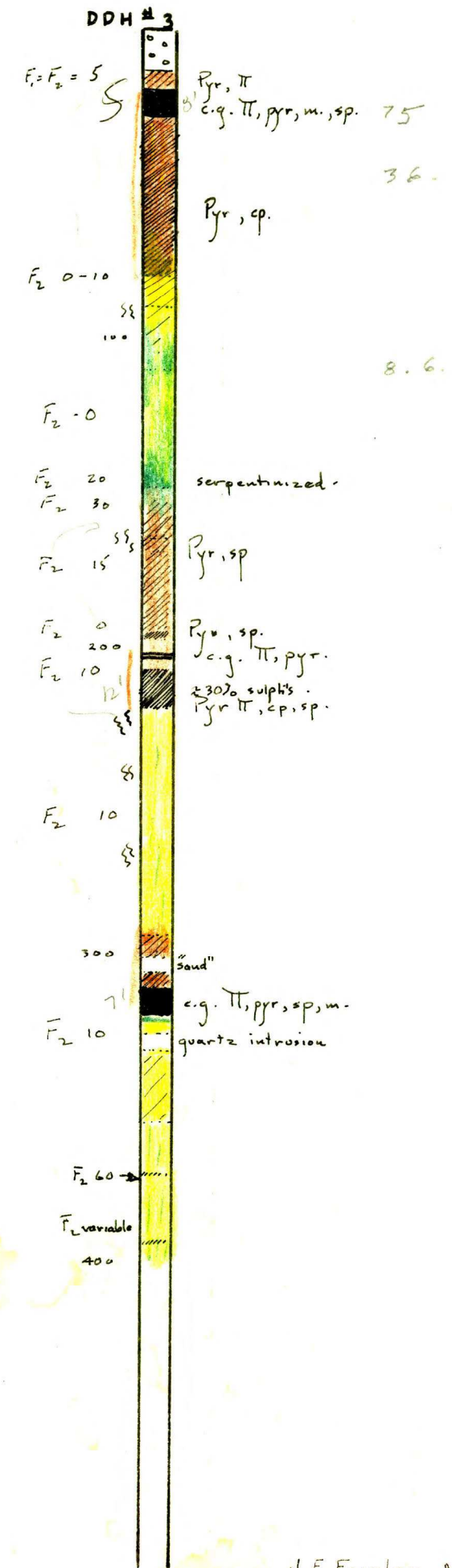
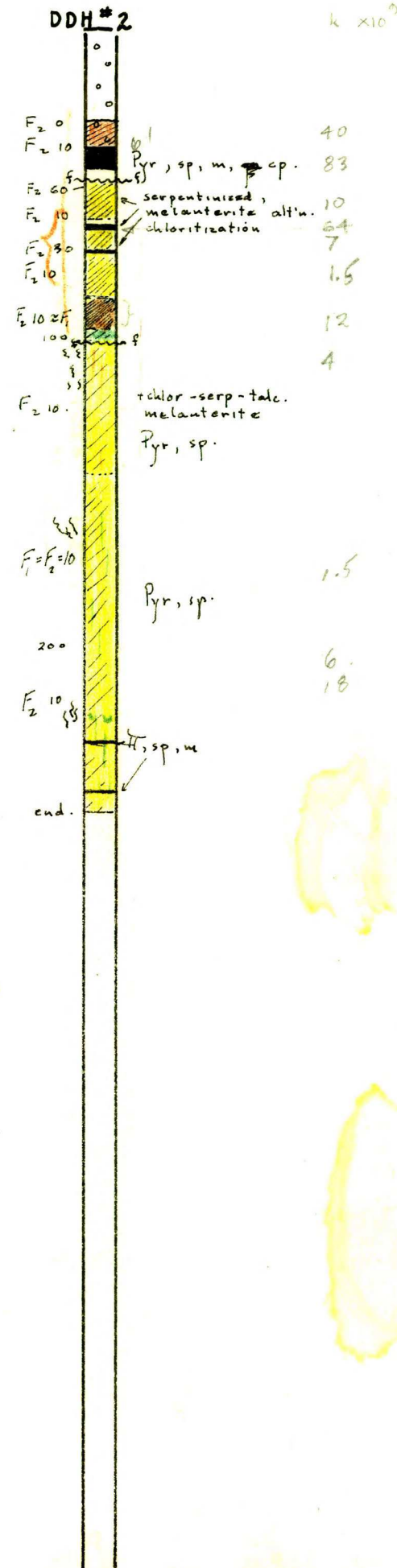
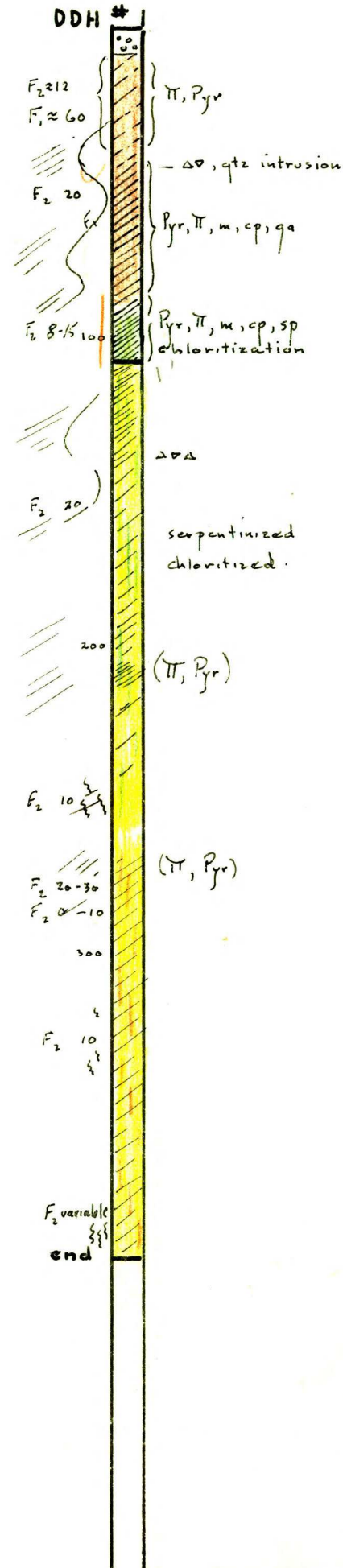
Estimated Sulphide Content:

- 0
- 0 - 2
- 2 - 5
- 5 - 30
- 30 - massive

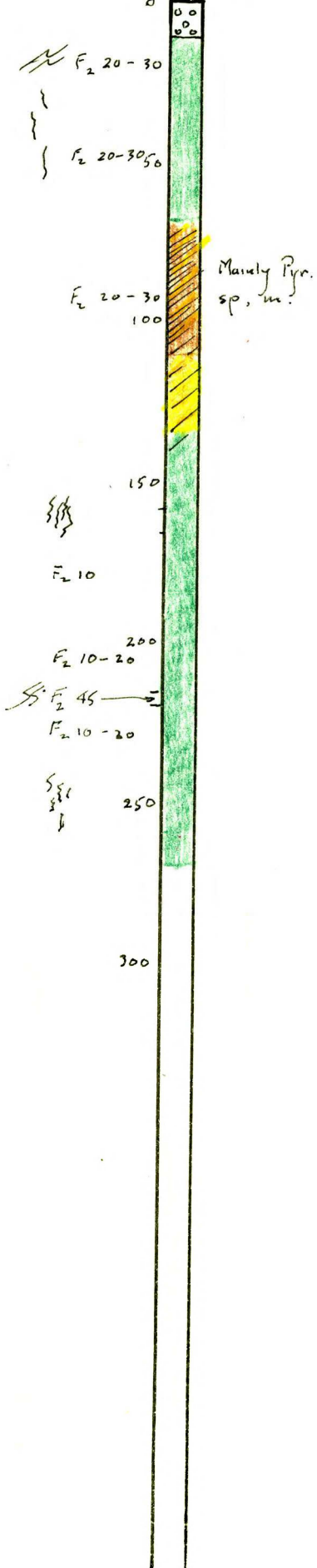
Individual Minerals Noted:

- $\Pi\Pi$ - Pyrite
 - Pyr, pyr - Pyrrhotite
 - Cp, cp - Chalcopyrite
 - Sp, sp - Sphalerite
 - Ga, ga - Galena
 - M, m - Magnetite
- ← smaller } relative
larger } concentration

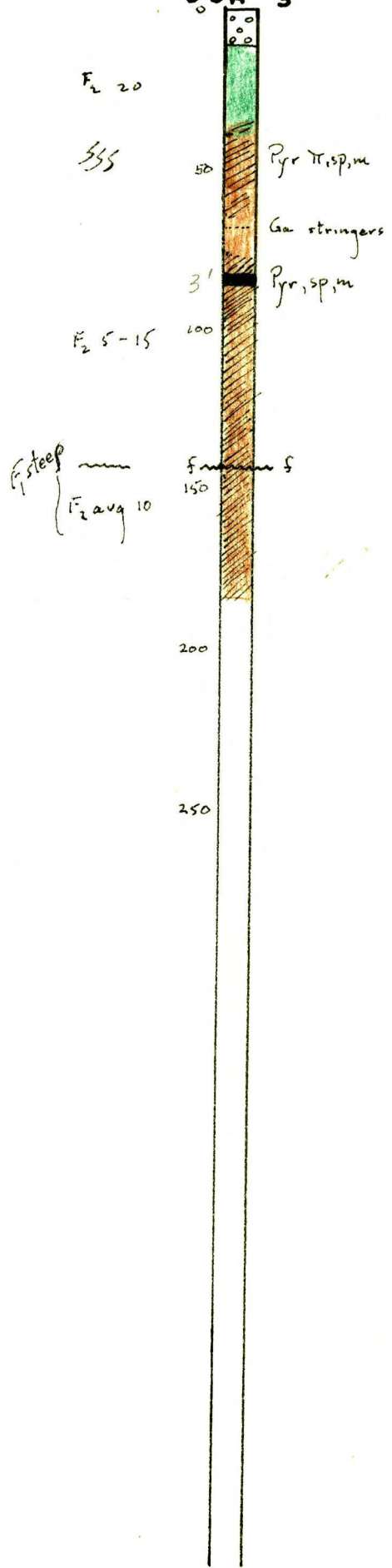
Structure Noted.



DDH #4



DDH #5



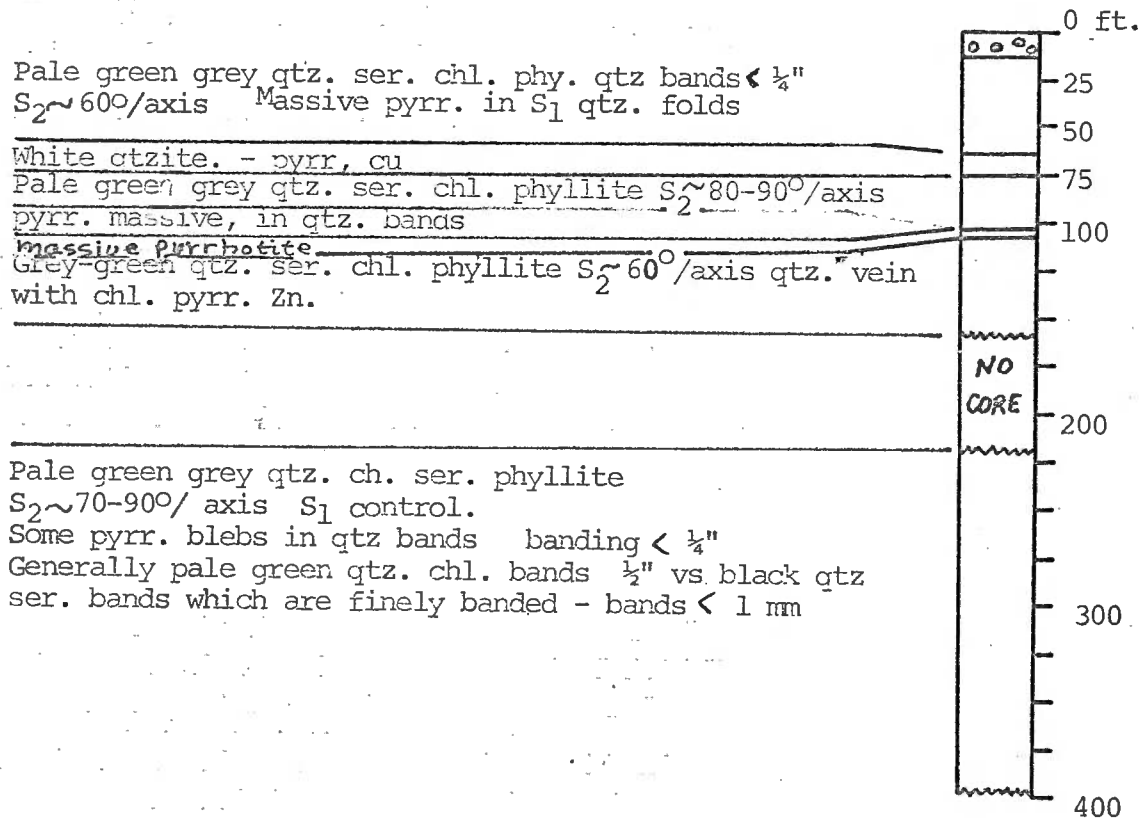
ROCK TYPES AND ALTERATION	MINERALIZATION AND STRUCTURES	FOOTAGE BLOCKS	% RECOVERY	INTERVAL							
				SAMPLE NO.	FROM TO						
240	Foliation 240-200, -35°	245	5.0								
		254	7.6								
		257	2.4								
		262.5	4.2								
		265	2.5								
		270	2.5								
		274	2.0								
		278	4.0								
		280	2.0								
280	Foliation 280-320, -30 to -35°	285	3.3								
		290	1.2								
	295.5-305 Zone of brecciated quartz stringers, crenulations, little or no mineralization v. minor pyrite	295.5	1.6								
		300.5	3.3								
		306	5.2								
		310	2.8								
		316	5.4								
		320	0.9								
320	Foliation 320 to 360, -30° crenulated throughout some minor drag folding	324	7.2								
		330.5	2.8								
		335	1.8								
		340	2.1								
		345	2.3								
		350	1.5								
		358	0.1								
		354.5	0.2								
		354.5	0.3								
		354.5	0.3								
360	350-370 FAULT ZONE (?) brecciated broken core, loss of core	357	0.6								
		363	1.3								
		365	0.5								
		367	0.7								
		368	0.5								
		370	0.4								
		375	1.9								
		380	0.8								
		385	0.3								
		387	0.5								
		390	0.4								
		395	0.5								
		398	0.4								
400	Foliation 400-440, -40° crenulated 435-450	402	3.8								
		405	3.5								
		410	C								
		412	0.4								
		413.5	0								
		418	2.6								
		424	2.2								
		430	5.8								
		435	2.6								
		440	1.8								
		444	2.6								
		450									
450	END OF HOLE										

~~Minor dyke - as above porphyritic, brecciated~~
 QUARTZ VEIN - unmineralized
 Minor dyke: as above porphyritic, brecciated
 GRAPHITIC PHYLLITE: v. dark grey to black in color, shot with quartz stringers along bedding planes
 QUARTZ VEIN - unmineralized
 424-435 PHYLLITE: m. dark grey, brecciated
 435-450 GRAPHITIC PHYLLITE

ANVIL MINING CORPORATION

DRILL LOG FOR DDH 1964 S-1
SEA CLAIMS 105K 2

DRILL LOG

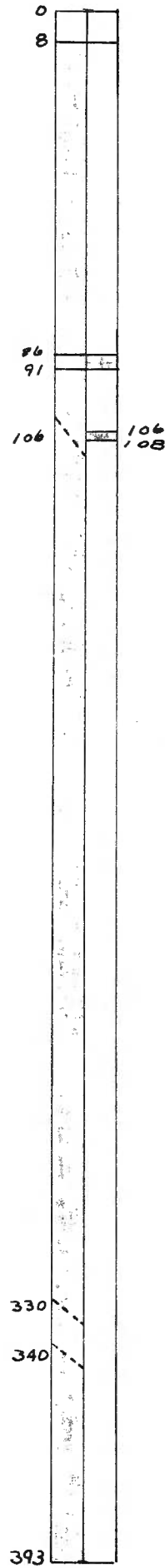


Geology By: W. Roberts

August 1971

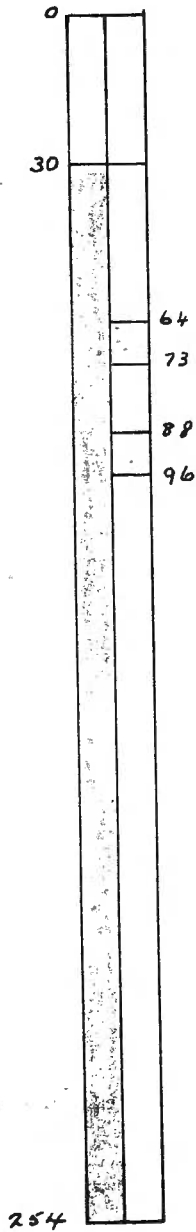
DDH S-1

scale: - 1" = 40'



DDH 5-2

Scale: - 1" = 40"



ANVIL MINING CORPORATION

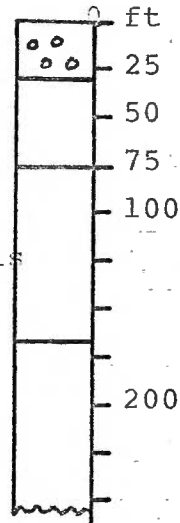
Drill LOG FOR DDH 1964 S-2
SEA CLAIMS 105K 2

DRILL LOG

Qtzite with massive Pyrr, Py & Cu
Estimate ~ 1% Cu

White g s schist - with qtz. bands < 1/2"
- frequently replaced by massive pyrr. & py. -
pyrr. & py. throughout in qtz. S₂ ~ 80-90°/axis

Pale green grey to creamy qtz. ser. chl.
phyllite ~ 80% qtz. - replaced by Pyrr.
& Cu. Cu in later fractures - estimate 1-5%
pyrr. in qtz. - intervals of 955

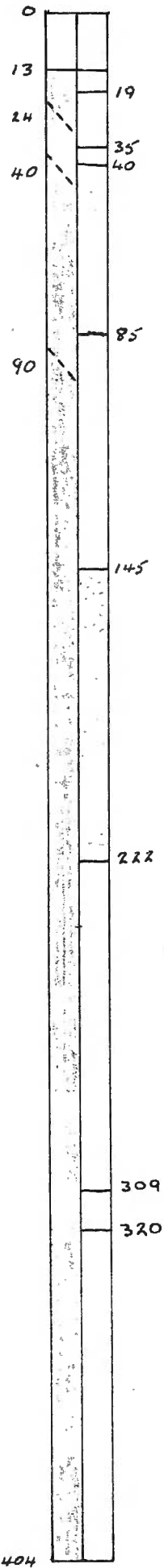


GEOLOGY BY: W. Roberts

August, 1971

DDH 5-3

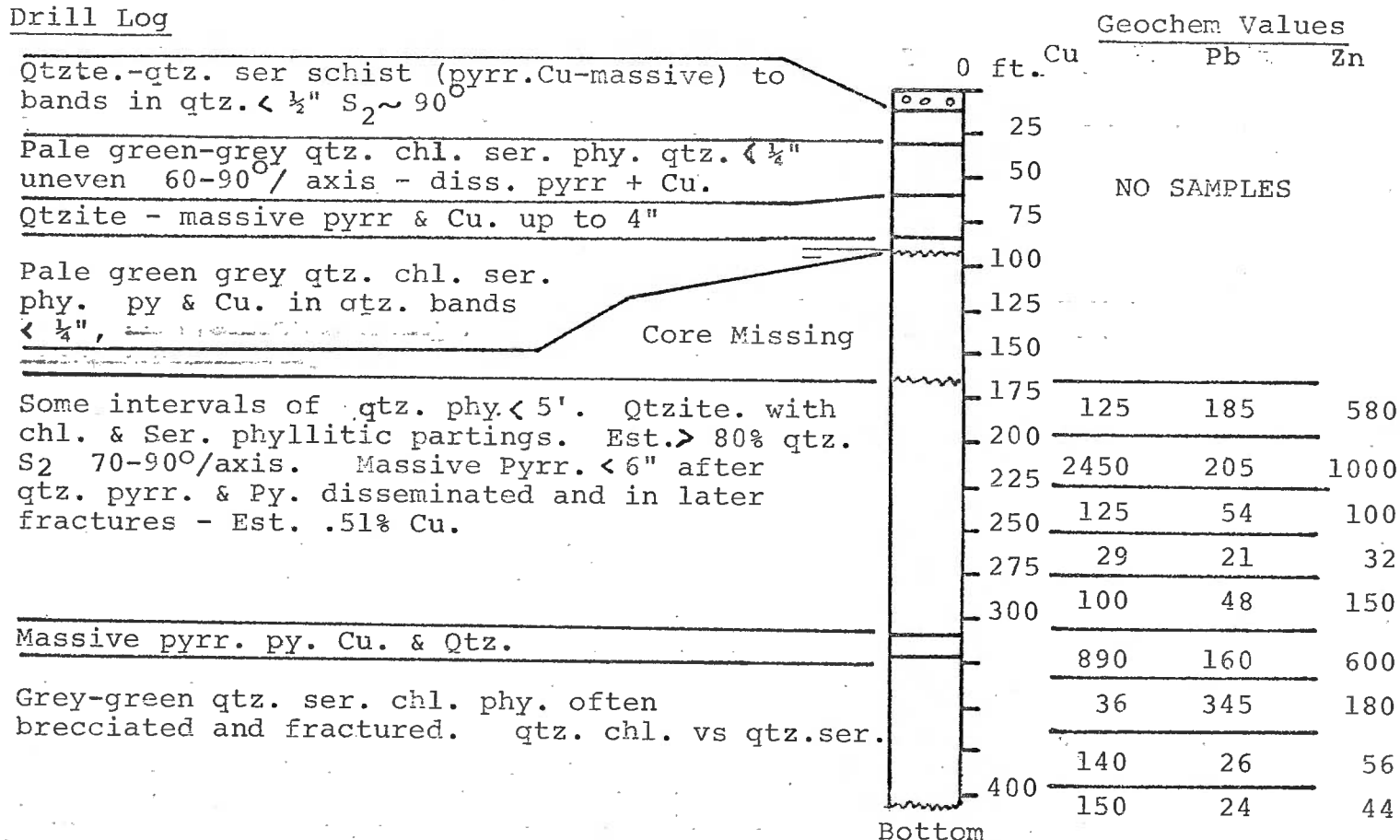
Scale: 1" = 40'



ANVIL MINING CORPORATION

DRILL LOG FOR DDH 1964 S-3
SEA CLAIMS 105K 2

Drill Log



GEOLOGY BY: _____

W. Roberts

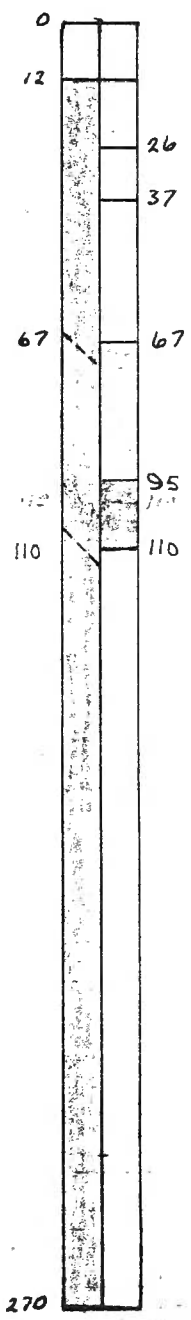
Geochemical Analysis: _____

Barringer REsearch Limited using HClO₄ extraction

August, 1971

DDH 5-4

Scale: 1" = 40'

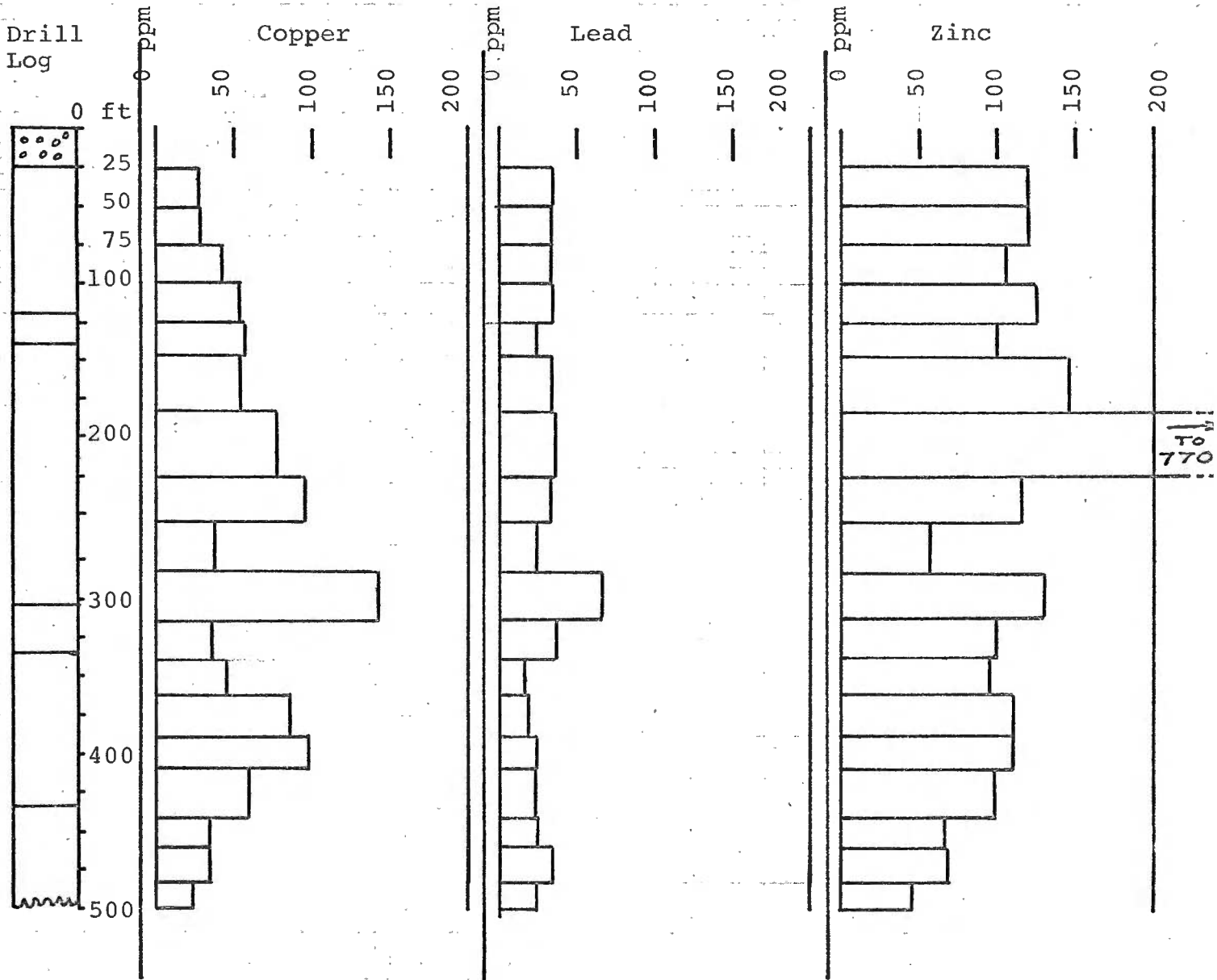


ANVIL MINING CORPORATION LIMITED Whitehorse, Yukon
 PROPERTY NAME ... WEST. SEA. ZONE ... HOLE NO. S-1 ... SCALE OF LOG 1" = 20'

ROCK TYPES AND ALTERATION	MINERALIZATION AND STRUCTURES	FOOTAGE BLOCKS	% RECOVERY	SAMPLE INTERVAL						
				NO.	FROM TO					
120		121.5 124 125.5 127.5 128.5 132.5 133 135 137 138 140	1.5 2.3 1.1 1.5 C 3.4 0.5 1.1 1.8 C 1.6							
140		143 145 146.5 147.5 149 150 152 153 156 157 160	1.7 1.2 1.2 C C C 0.6 2.2 0.8 1.3							
160	Foliation: 140'-180'; -25°	163 164 167 169 173 175.5 178.5 178.5 178.5	0.6 0.9 0.7 C 2.4 1.0 0.2 C 0.5 0.2							
180	Foliation: 180'-220'; -15° to -35° 182.5 - 203: Loss of core, possible FAULT ZONE?, but little evidence for such.	180.5 182.5 184.5 186 191 192.5 196 200	0.4 1.0 0.9 C 0.8 0 0.4 0.9							
200		203 206 207.5 209 213 217	0.9 1.6 C C 3.6 2.9 2.8							
217.3		221.5	4.4							
220	GRAPHITIC PHYLLITE	226.5 228 235 237 238 240	0.9 4.5 1.5 0.4 1.1							
240		245 249 250 251 255.5	4.2 3.5 C C 4.3 4.5							
260										

220 ZIRCON QUARTZ VEIN, minor py along contact, 11.4% ZrO₂

GEOCHEMICAL PROFILE FOR DDH 1966 S-1
SEA CLAIMS 105K 2



ANVIL MINING CORPORATION

DRILL LOG FOR DDH 1966 S-1
SEA CLAIMS 105K 2

DRILL
LOG

GEOCHEM

Cu Pb Zn

Depth (ft)	Geological Description	Cu (%)	Pb (%)	Zn (%)
0				
25	Grey ser. phy, some qtz. rich intervals, pyrr. & py. tr. of Cu ass. with ~1/4" qtz. bands. S ₂ ~ 45°/axis - regular.			
50		28	33	120
75		29	32	120
100	Blk. grap. phy. low qtz. S ₂ - 45°/axis	41	32	105
125		53	33	125
150	Banded qtz. grap. phy bands ~ 1 mm often over 1/2" locally for 4'. S ₂ ~ 45°/axis Pyrr. & Py occurs with wider qtz. bands - some chl. occurs with qtz.	58	23	100
175		56	32	145
200		78	36	770
225		96	32	115
250		39	24	58
300	Banded qtz. chl. ser. phy. S ₂ 60°/axis - similar to Calc-silicate - qtz. rich material bordering greenstone.	140	67	130
325		35	37	100
350	Pale green actinolitic tuff S ₂ 60°/axis	45	17	96
375		87	19	110
400		98	23	110
425		60	21	98
450	Banded qtz. rich material & chl. part of greenstone	33	24	68
475		35	32	369
500		21	24	44

Geology By:

W. Roberts

Geochemical Analysis: Barringer REsearch Limited using HClO₄ extraction

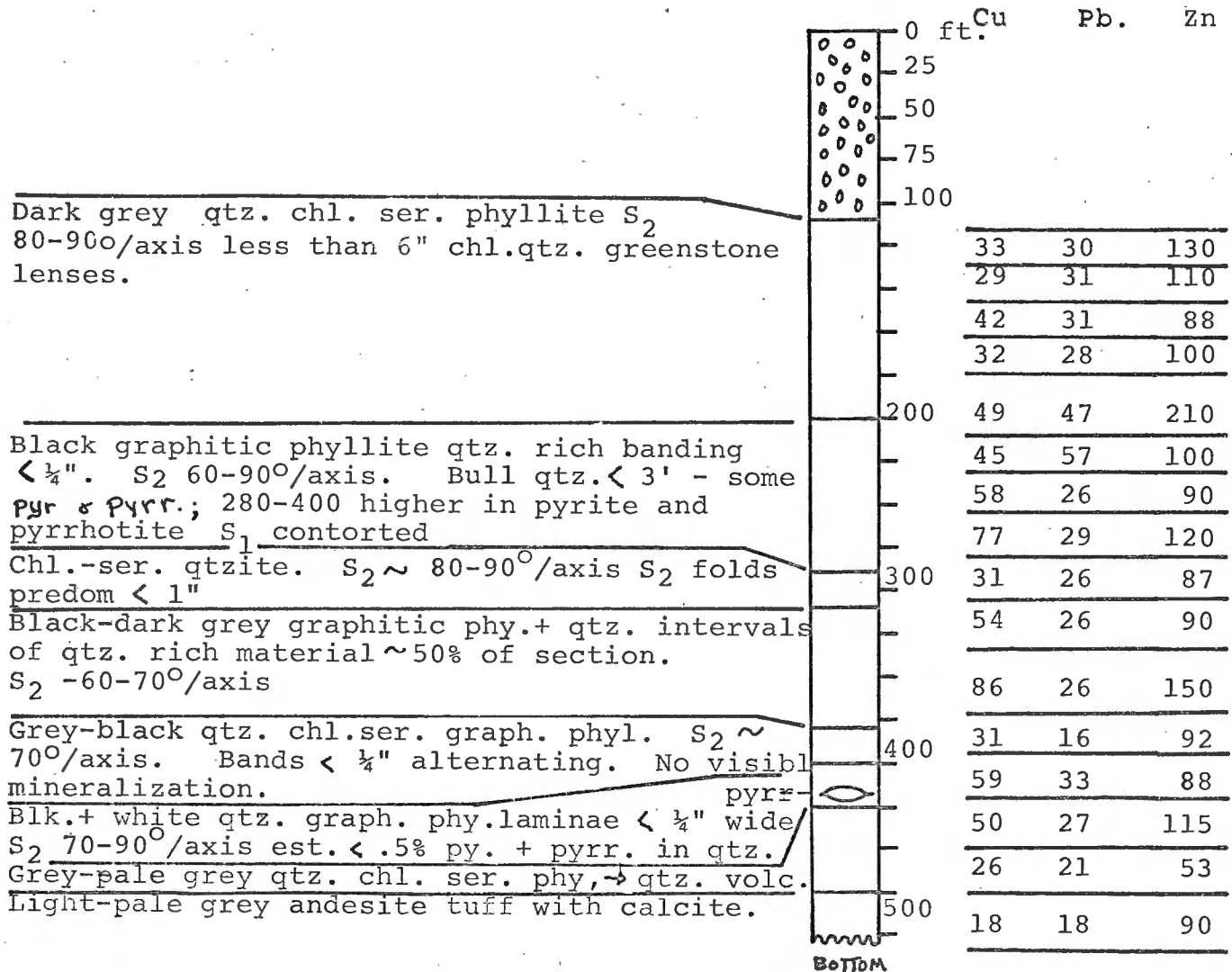
August, 1971

ANVIL MINING CORPORATION

DRILL LOG FOR DDH 1966 S-2
SEA CLAIMS 105K 2

Drill Log

Geochem Values



GEOLOGY BY:

W. Roberts

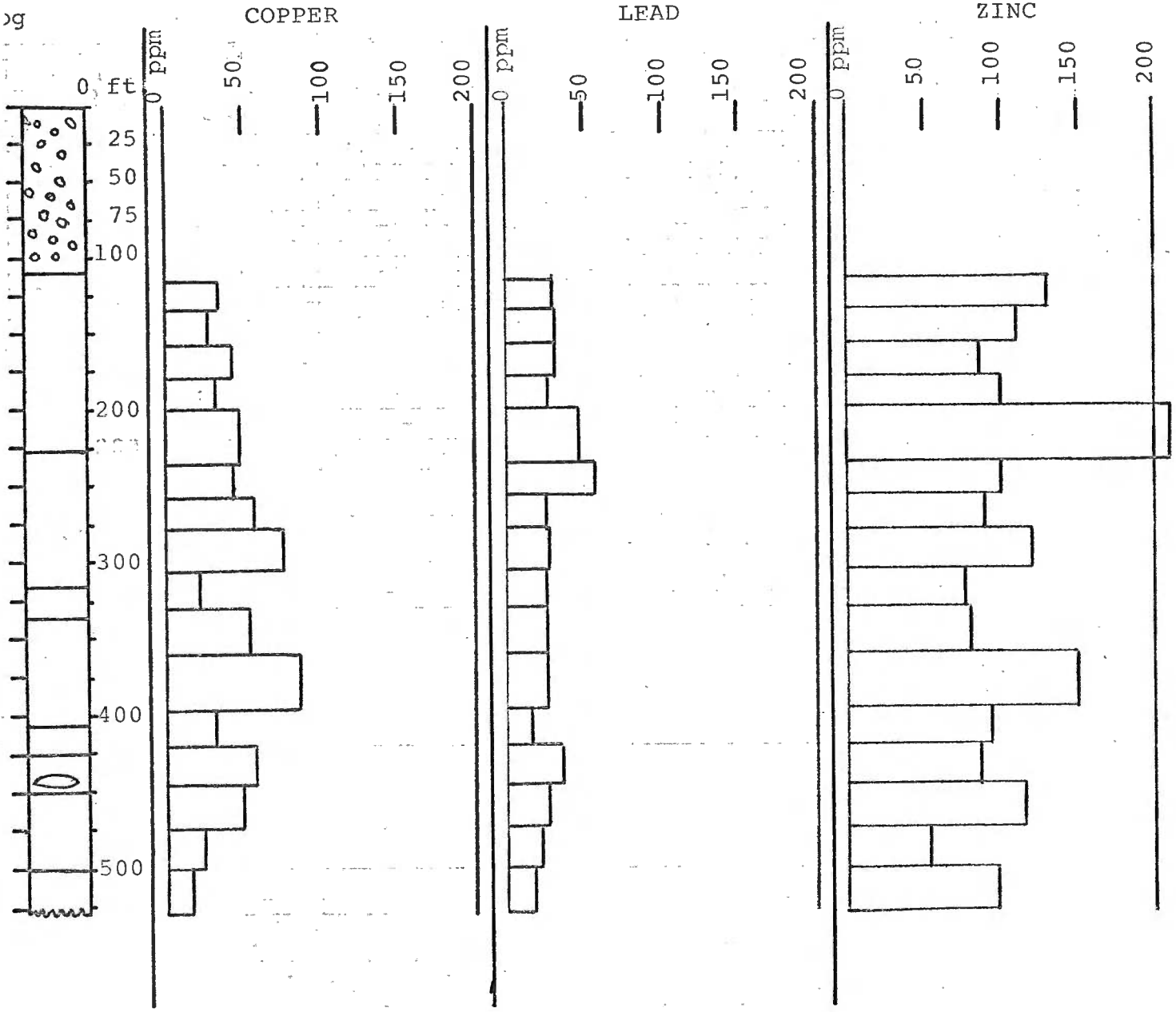
Geochemical Analysis:

Barringer REsearch Limited using $BClO_4$ extraction

August, 1971

GEOCHEMICAL PROFILE FOR DDH 1966 S-2
SEA CLAIMS 105K 2

Drill
log



ANVIL MINING CORPORATION

DRILL LOG FOR DDH 1966 S-3
SEA CLAIMS 105K 2

GEOCHEM

DRILL LOG

Blk.-grey qtz. graph. phy. qtzite. -
intervals < 1' of qtzite. with graph. phy.
partings S₂ ~ 45°/axis regular S₁ -
highly folded, observed only in qtzite.
Minor py. & pyrr in qtz. banding < 1/8"

Core Missing

Pale green andesitic tuff
- often banded < 1/2" with qtz. rich material
S₂ 45°/axis no visible S₁

Depth (ft.)	Cu	Pb	Zn
0			
25			
50			
75			
100	26	39	66
	37	29	73
	42	28	78
	72	74	150
200	54	29	150
	67	37	185
	No Sample		
	80	40	86
300	100	24	105
	84	41	120
	94	24	135
400	53	20	57
	68	23	61
	25	24	86
	23	20	69
	32	20	64
bottom			

GEOLOGY By:

W. Roberts

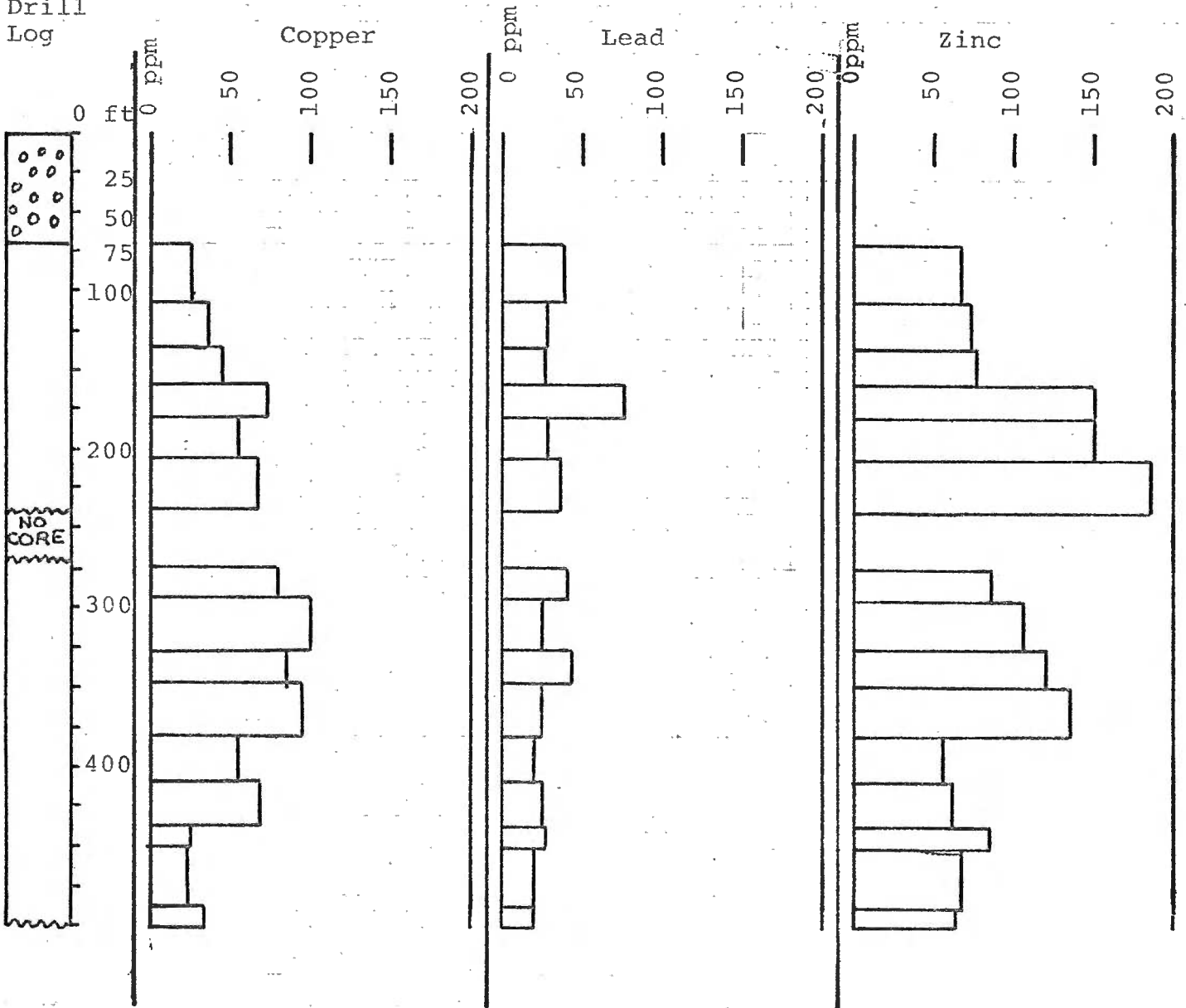
Geochemical Analysis:

Barringer Research Limited using HClO₄
extraction

August, 1971

GEOCHEMICAL PROFILE FOR DDH 1966 S-3
SEA CLAIMS 105K 2

Drill
Log



1966 S-3

ANVIL MINING CORPORATION

DRILL LOG FOR DDH 1966 S-4
SEA CLAIMS 105K 2

GEOCHEM

DRILL LOG

Cu Pb Zn

0 ft

	0-25			
	25-50			
Pale green grey qtz. chl. ser. phy. S ₂ 80-90° axis contorted due to S ₁ 60°/axis	50-75	61	27	140
Qtz. ser. phy. minor chl. -qtzite S ₂ 70-90°/axis	75-100	49	42	150
White qtzite & ser. partings - visible pyrr. py. Cu with white g.s. schist qtz. veins < 1' with chl.	100-125	210	640	140
	125-150	190	1200	670
	150-175	100	350	470
	175-200	48	43	63
Pale green-grey qtz. chl. ser. phyllite. Probably partially volcanic. S ₂ 60-70°/axis Some bands less than ¼" of pyrr. & py.	200-225	150	52	76
	225-250	250	185	170
	250-275	42	35	86
S ₂ 45°/axis	275-300	145	95	125
	300-325	67	39	110
White qtz. ser. phyllitic schist	325-350	48	50	105
Pale green-grey g.s. ch. phy. S ₂ ~ 45°/axis good looking Rx qtz < ¼"	350-375	31	29	83
Pale greenish grey qtz. ch. ser. ph. - S ₂ ~ 60-80°/axis - diss. qtz. bands > 1/8' bull qtz. < 4", with chl - minor pyrr in qtz.	375-400	33	29	59

Geology By:

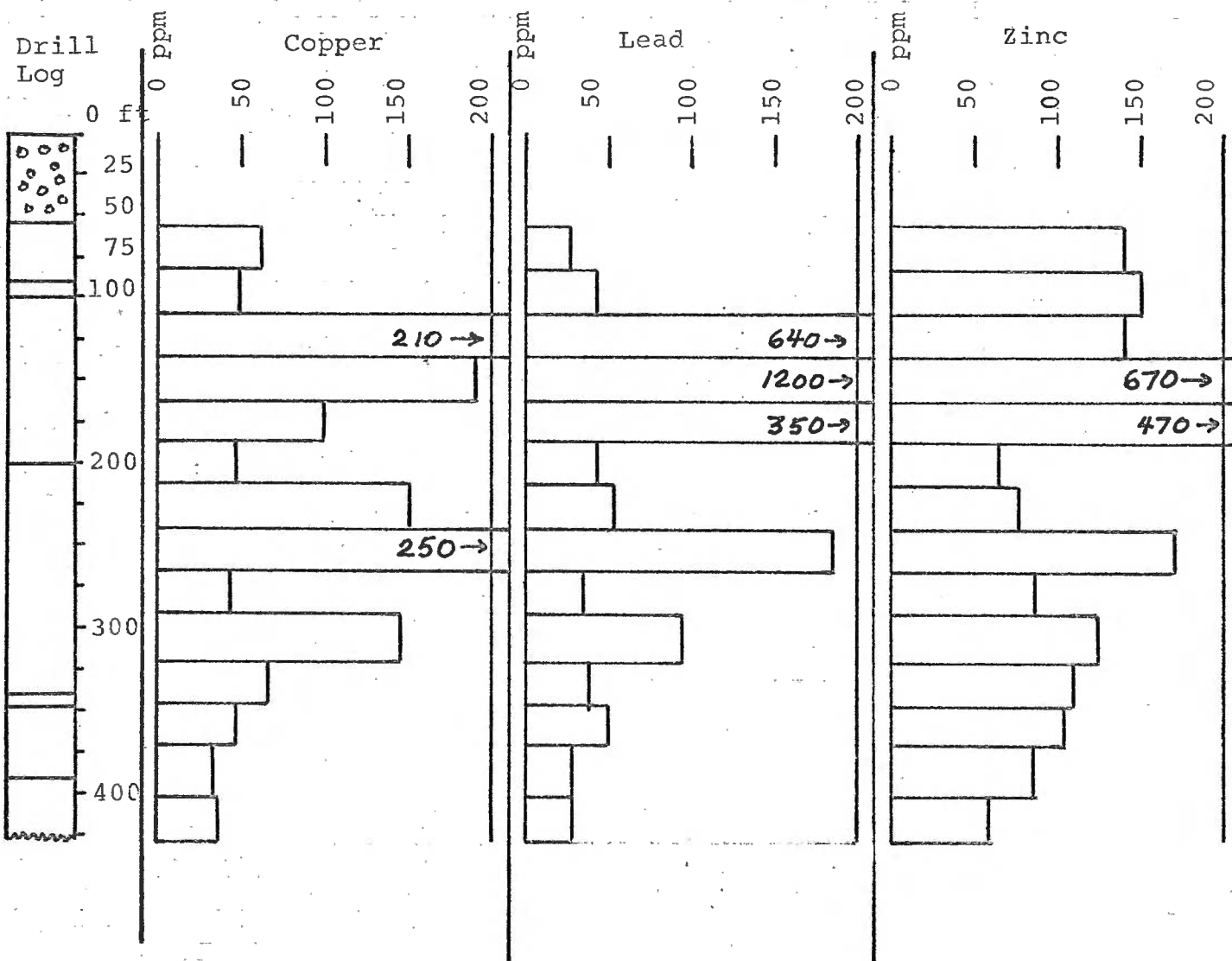
W. Roberts

Geochemical Analysis:

Barringer REsearch Limited using HClO₄
Analysis

August, 1971

GEOCHEMICAL PROFILE FOR DDH 1966 S-4
SEA CLAIMS 105K 2



ANVIL MINING CORPORATION LIMITED

Whitehorse, Yukon

PROPERTY NAME SEA

LOCATION NORTH SEA

DATE DRILLED 20 APRIL 1968 - 2 MAY 1968

SCALE OF LOG 1" = 40' LOGGED BY J. GONDAL DATE 26 April 1968

HOLE NO 68-52 DEPTH 638'

COLLAR ELEVATION CORE SIZE AA INCLINATION TESTS

BEARING (MAG OR TRUE DIP 90°)

CO-ORDINATES 4+50 S 40+00 E

SURFACE OR UNDERGROUND

TOTAL RECOVERY 97.7%

ROCK TYPES AND ALTERATION	MINERALIZATION AND STRUCTURES	FOOTAGE BLOCKS	RECOVERY	SAMPLE NO.		INTERVAL					
				NO.	NO.	FROM	TO				
0-8' - OVER BURDEN 0-9' - CASING 0-32.5' - CHLORITE SERICITE SCHIST	METAMORPHIC EQUIVALENT OF VOLCANICS. SLIGHTLY FOLIATED SMALL BANDS OF VOLCANICS STILL PRESENT AT SOME PLACES.	9 13 23.6 32	0.5 9.7 7.5 18								
32.5 - 92.5 VOLCANICS. GREENISH IN COLOR FINE GRAINED IN TEXTURE AND CONSISTS OF OLIVINE, PYROXENES AND SILICA. PROBABLY ANDESITE	32.5' - 33.4' RECRYSTALLIZED CALCITE VEIN ALSO OCCURS AS FRACTURE FILLING AND VUGS.	50 70.5 75	-20.5 4.5								
CHLORITE DEVELOPED IN SOME PLACES 92.5' - 139.5' CHLORITE SCHIST. GREENISH IN COLOR. SLIGHTLY FOLIATED AND CONSISTS OF ESSENTIALLY	FINELY DISSEMINATED PYRITE, PYRRHOTITE OCCURS AT SEVERAL PLACES. 74.5' GALENA AND Sphalerite FINELY DISSEMINATED IN VOLCANICS.	103 113	28 10								
CHLORITE AND A SMALL AMOUNT OF ACTINOLITE, CALCITE OCCURS THROUGHOUT 139.5' - 147.5' VOLCANICS PARTLY ALTERED TO SCHIST 147.5' - 361.5' - CHLORITE SCHIST.	FOLIATION: - 84° 122' - 122.8' :- BEXED CALCITE. 127.3' - COARSELY CRYSTALLINE CHALCOPYRITE ASSOCIATED WITH PYRRHOTITE. 136.5' FOLIATION: - 82°	123 133 143 148 153	10 10 5 7								
A MINOR AMOUNT OF ACTINOLITE AND SERICITE PRESENT IN PLACES	195.5' - 196.5' :- DISSEMINATED PYRITE. FINE GRAINED VOLCANICS OCCUR AS SMALL BANDS AND PYRITE IS FINELY DISSEMINATED IN VOLCANICS.	165 175 185 195	10 10 10 8								
CHLORITE SCHIST (SERICITE IN PLACES)	QUARTZ OCCURS AS CONFIRMABLE BANDS IN SCHIST. - DIFFERENTIATION BY METAMORPHISM.	203 222.3 233	19.3 10.7								

