

NORTHWEST DISTRICT

NAME

*Andic*DRILL HOLE NO. *5*PAGE *1* OF *1*

Summary Drill Hole Log

CODE

BEARING

DIP

Purpose of hole

LOCATION

TOTAL DEPTH

417

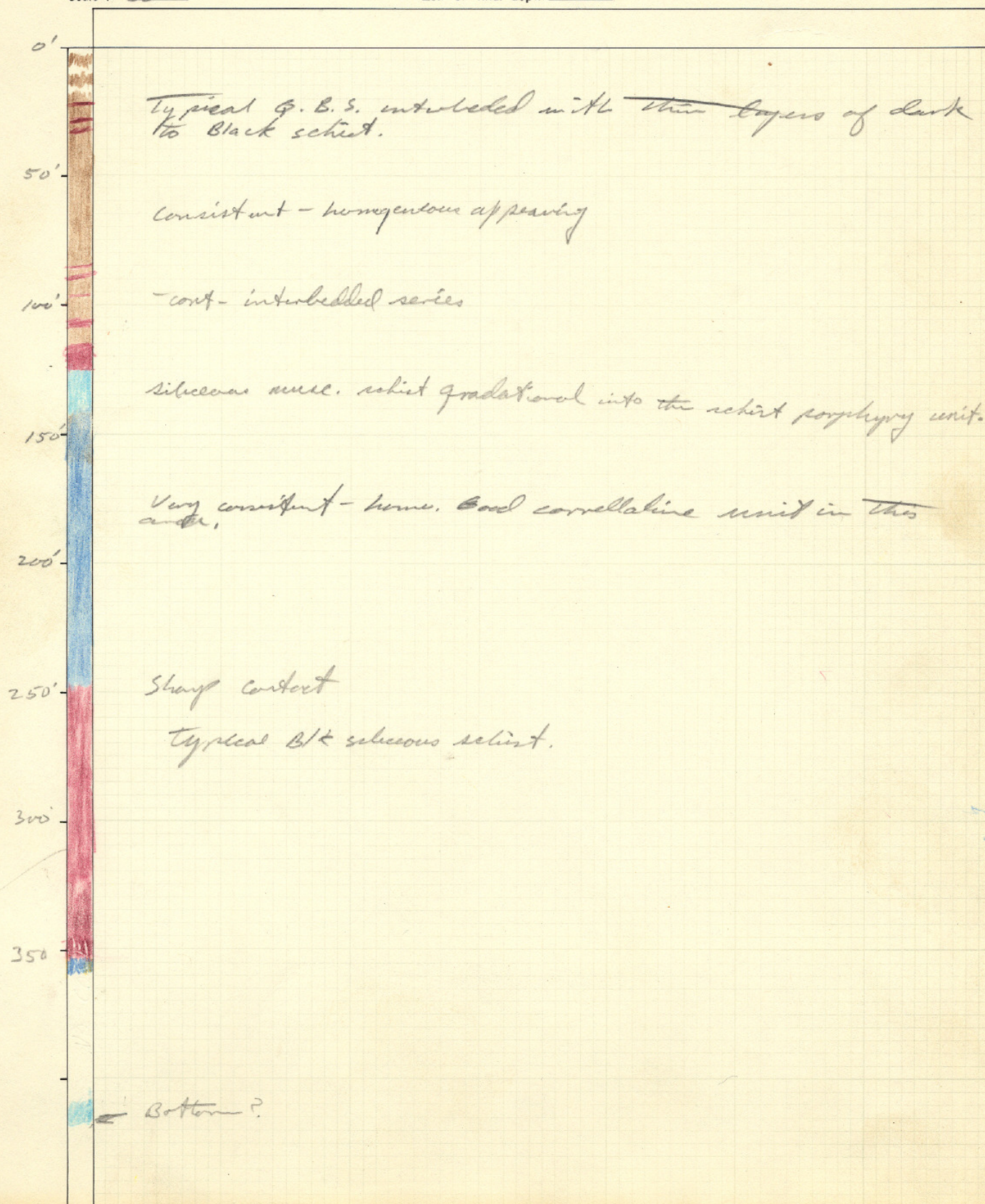
BY

Scale: 1" = *50'*

Est. of final depth

START

COMPLETED



START 8/15/67 COMPLETED 8/22/67

	Cu 2 4 6 8 10 12	Ag 2 4 6	Zn 2 4 6 8 10 12	Pb 1 2 3 4	AN	Remarks
(3088) 0						
(3068) 20						
(3048) 40						
(3028) 60						
(3008) 80						
(2988) 100						
(2968) 120						
(2948) 140						
(2928) 160						
(2908) 180						

LOCATION _____

El. 3088

Est. of final depth _____

START _____ COMPLETED _____

	Cu	Ag	Zn	Pb	AN	Remarks
	2 4 6 8 10 12	2 4 6	2 4 6 8 10 12	1 2 3 4		
(2908) 180						
(2888) 200						
(2868) 220						
(2848) 240						
(2828) 260						
(2808) 280						
(2788) 300						
(2768) 320						
(2748) 340						
(2728) 360						

NAME ARCTIC

DRILL HOLE NO. 5 PAGE 3 OF 3

CODE 05-01-0013

BEARING VERTICAL DIP

Purpose of hole To test area down dip to west
between drill holes 3 & 2

LOCATION _____

- TOTAL DEPTH ~~444~~ 417, BY CGB

El. 3088

START 8/15/67 COMPLETED 8/22/67

Scale: 1" = 20

Est. of final depth _____

	Cu 2 4 6 8 10 12	Ag 2 4 6	Zn 2 4 6 8 10 12	Pb 1 2 3 4	AD	Remarks
(2728) 360						
(2708) 380						
(2688) 400 380 (10")						
(2668) 420						
440						
460						
480						
500						
520						

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5 LINES TO INCH

LUMCO, PITTSBURGH, PA. 15107 MADE IN U.S.A.

28

ARCTIC
DH-5
8/26/67
TR. MK. REG. U.S. PAT. OFF.

0-31 More or less chloritic
typical augen congl. schistose
gtrite. Periphyritized and
fugs. in a siliceous
chloritic matrix; loc.
layers slightly graph.
med. gray gtrite. - R_x is
yell.-grayish dirty
appear. - schistosity
gen. partly developed.
The w blebs & fugs
variable in size to 3/4"
< 1/2" to 4/4"; ± 1" below 44'
Mod. oxid. - loc. intense
± 20°.

31-96 Same as above; matrix
(similar)
gen pale green siliceous
chlorite - black speckled
shiny blebs biotite (?)
common to 80'. Minor mod.
oxidation; ± 10°; loc. pale
green homog. talc-chlorite;
gray slightly carbonaceous
layer 81-83 ps described
section below; loc. pyritic;
pale green homog. chl.
matrix decreases below
44'.

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5 LINES TO INCH

LEFAX, PHILADELPHIA, PA. 19167 MADE IN U.S.A.

28

ARCTIC
DH-5
8/26/67
TR. MK. REG. U.S. PAT. OFF.

96-107.5 Altern. layers
± 6" fine fine grain slightly carbonaceous.
mod gtrite & pale green talc-chlorite
and w white blebs. ~~± 10°~~
intense oxid. < 10°

107.5-114 - Augen gtrite - white
augen in sandy and pale green
chlor-musc. matrix - ~~mod~~ minor
oxid ± 10°

114-124 ~~gray~~ Med. dk gray
slightly carbon. even
layered highly siliceous
schist - seric. sheen.
± 10-15° - lpc. thin pale
green mod contorted
chlorite seams ~~± 10°~~
if g dens. py ~~± 10°~~ < 15°

ARC 770
DH-5
R12
8/21/67
TR. MK. REG. U.S. PAT. OFF.

124-149 - Micaceous glauite
fine gritty - light gray with
pale green coarse mica seams
loc - good glauite
loc. patchy gray mottling
± 10% loc. intense oxid

130-131

134-136

140-~~149~~ 154

Mod. to weak oxid loc.

Rx - Orange-brown where
oxidized

Pyritic zone 124-129.
± 10%

Unit has gray white fine
sandy appear.

ARC 770
DH-5
R12
8/21/67
TR. MK. REG. U.S. PAT. OFF.

~~1-244~~

158-244 Typical solid porph.
unit. Matrix pale-med.
green chlorite with white
blebs - blebs angular
to slightly rounded -
~~locally~~ where adjacent
to one another borders
indistinct. - square to
rot shaped.

INTENSELY OXID 157-168

177-~~178~~ 178

MOD OXID 161-164

169-169

175-177

178-180

Intense oxid 203-206

210-211

223-224

229-231

233-237

241-245

MOD oxid - ~~at~~ for 1-2'
adjac to intense
oxid. zones.

oxidized zones porous, rusty
minor py - neg. sulfides glau.

42071C
DH-5
R15
8/21/67
TR. MK. REG. U.S. PAT. OFF.

42071C
DH-5
R15
8/21/67
TR. MK. REG. U.S. PAT. OFF.

244-247 siliceous banded
chlorite schist ~~alternating~~
pale green and gray
layers - talcy -
5210°

247-325 Graphitic siliceous
mica schist $\pm 210^\circ$ -
feathery - lamy siliceous
layers

325
247
18
pyritic - py 3-5%
loc. minor oxid.

loc. sooty black highly
carbonac. crumbly zones
partic 263-270.
Native Cu seam xcutting
to 1/4" at 269'.
Unit dk gray to black
py as blobs and diss.
grains along cleavage.
dip 10° top. 100. minor Cpy
5° bot.

Minor Cpy. 321-322.5
1.5-7

Sample 321-322.5
concord.

325-329.5 slightly carbonac.
bot. schistose gylite -
fine gritty appear -
bottom fl. gradational into
underlying unit. dip $\pm 10^\circ$
pyritic - TRACE Cpy, minor
Sp.

Sample 325-329.5

329.5-347 - Extremely carbonac.
gamy dull black
slate alternating with
more competent black
graph. schist with Cpy
same $\pm 10^\circ$

Sample 333-340

346-347

343-346

ARCTIC
DH-5
Rn
8/23/67
TR. MK. REG. U.S. PAT. OFF.

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347-353 DK. siliceous graph. schist
alt. with schistose Qtzite.
dip $\pm 10^\circ$. scattered py -
lc. Cp seams & Sp.

→ sample 347-353

353-357 Mottled slightly chloritic
qtzite - punky appear - fresh
py diam. grains - minor
Sp. Tr. Cp in seams

→ sample 353-357

357-361 Same as above with green
361-365 Chlor. plng. → loc. talcy
370 yll. green chlorite + 5-10°
gony. loc - soft.

→ sample 361.3 - 364.3

→ " 364.3 - 366.3

→ " 366.3 - 367.3

→ " 367.3 - 375

→ " 375 - 377

→ 377 - 380

→ 380 - 382

→ 382 - 383

Fall Union

364.3 - 366.3

36

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ARCTIC
DH-5
Rn
8/23/67
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To Union from DH-5

346-347 Au

361.3-364.3 Cu, Ag, Pb

364.3-366.3 Cu, Ag, Zn, Pb

~~366.3~~

367-377 Cu, Ag, Pb, Au

377-380 Cu, Ag, Pb

380-382 Cu, Ag

370-383 Muscovite-chl. schist;
very soft - gony. - high grade
massive sulfide as
shown by samples -
py $\pm 10\%$ in sulfide zones -
2-3 elsewhere.

383-385 Bleby pale green
chlorite schist - soft
 $\pm 5^\circ$

385-407 Pale green chlorite
schist - bot rx?
5-10°

Barren to high sulfide below 383'

5 LINES TO INCH

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6 LINES TO INCH

LEFAX, PHILADELPHIA, PA. 19107 MADE IN U.S.A.

29

A-5
schistose rx - very
competent - becomes
quite foliated below

397 -

flat to 50

Spec. 338
355
391
3409

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6 LINES TO INCH

LEFAX, PHILADELPHIA, PA. 19107 MADE IN U.S.A.

28

A-5

325 - 351.5 -

MDG Top grading down
to MG near base -
gray top - coarse
core is split -

freg. pulverous or
splitting but approx
competent prior to
this $\pm 5^{\circ}$ - 0° pyritic
typ. gray phyllite.

351.5 - 357 Competent
dull green schistose
Congl. ? gen massive
competent $\pm 5^{\circ}$ - 10°
(split)

387 - 407 Pale tannish
green to gray
massive to slightly

TR. MK. REG. U.S. PAT. OFF.

Exhibit "F-1"

DOWN-HOLE SURVEY DATA (cont'd)

<u>DOWN-HOLE FOOTAGE</u>	<u>INCLINATION</u>	<u>AZIMUTH</u>
<u>ARCTIC DRILL HOLE 43</u>		
155	80	90
355	72	82
545	68.5	82
745	63	63
<u>ARCTIC DRILL HOLE 46</u>		
385	73	2
455	72	12
<u>ARCTIC DRILL HOLE 48</u>		
139	88	ND
239	83	

AVERAGE ARCTIC DRILL DEVIATION

<u>DEPTH</u>	<u>INCLINATION</u>	<u>AZIMUTH</u>	<u>CUMULATIVE DEVIATION</u>	
			<u>HORIZONTAL</u>	<u>VERTICAL</u>
100	86	45	3.5	0.1
200	81	45	14.8	0.8
300	77	45	33.8	2.7
400	74	45	58.8	5.9
500	73	45	87.2	10.0
600	72	45	117.2	14.6
700	71	45	148.9	19.7
800	70	45	182.3	25.4
900	69	45	217.3	31.7
1000	68	45	253.9	38.6
1100	67	45	292.2	46.2
1200	66	45	332.2	54.5

0 - 50	-	Vertical		
50 - 150	4	6.97'	7.0	
150 - 250	9	15.64'	15.6	
250 - 350	13	22.5	22.5	
350 - 417 (67')	16	18.5	18.5	
			<u>63.6'</u>	

22.6

ARCTIC DDH-5

1" = 100'

2/16/73 WS

DDH log is incomplete

FILE NO. DH - 5

* Union
KCC

BC 12-66

SAMPLE RECORD

E1 3088

PROJECT: ARCTIC

WORKING PLACE: DH-5

SAMPLER:

DATE // / 68

[illegible]