



31L11SE0016 10 BUTLER

010

# Diamond Drilling

Township of Butler

Report No: 10

Work performed by: J.J. Kenney-(Goldwynne Chem. Corp.)  
-(Arrowhead Silica)

Claim No	Hole No	Footage	Date	Note
S 58028	A 1	112'	Jan/52	(1)
	A 2	101'	Jan/52	
	A 3	115'	Jan/52	
	A 4	100'	Jan/52	
	A 5	105'	Jan/52	
	A 6	100'	Jan/52	
	A 7	100'	Jan/52	
	A 8	102'	Feb/52	
	A 9	100'	Feb/52	
	A 10	100'	Feb/52	
	X 3	22'	1952	(2)
	X 4	18'	1952	(2)
	X 5	22'	1952	(2)
	X 6	22'	1952	(2)
	X 7	19'	1952	(2)
	X 8	28 1/2'	1952	(2)
	X 9	16'	1952	(2)
	X 10	5'	1952	(2)

### Notes:

- (1) The A of the hole numbers are frequently omitted
- (2) No logs, only cross-sections

# LEGEND

Pyrrhotite, Pyrite, enriched.

Kyanite - 25% plus.

Kyanite - under 25%.

Gneissic & Quartzitic rocks, with & without Pyrite -  
no Pyrrhotite noticed.

Diabase?



Scale of all LOG SHEETS = 20'-1"

Arrowhead Silica Corp.

RECEIVED

SEP 27 1972

RESIDENT GEOLOGIST  
SUDBURY

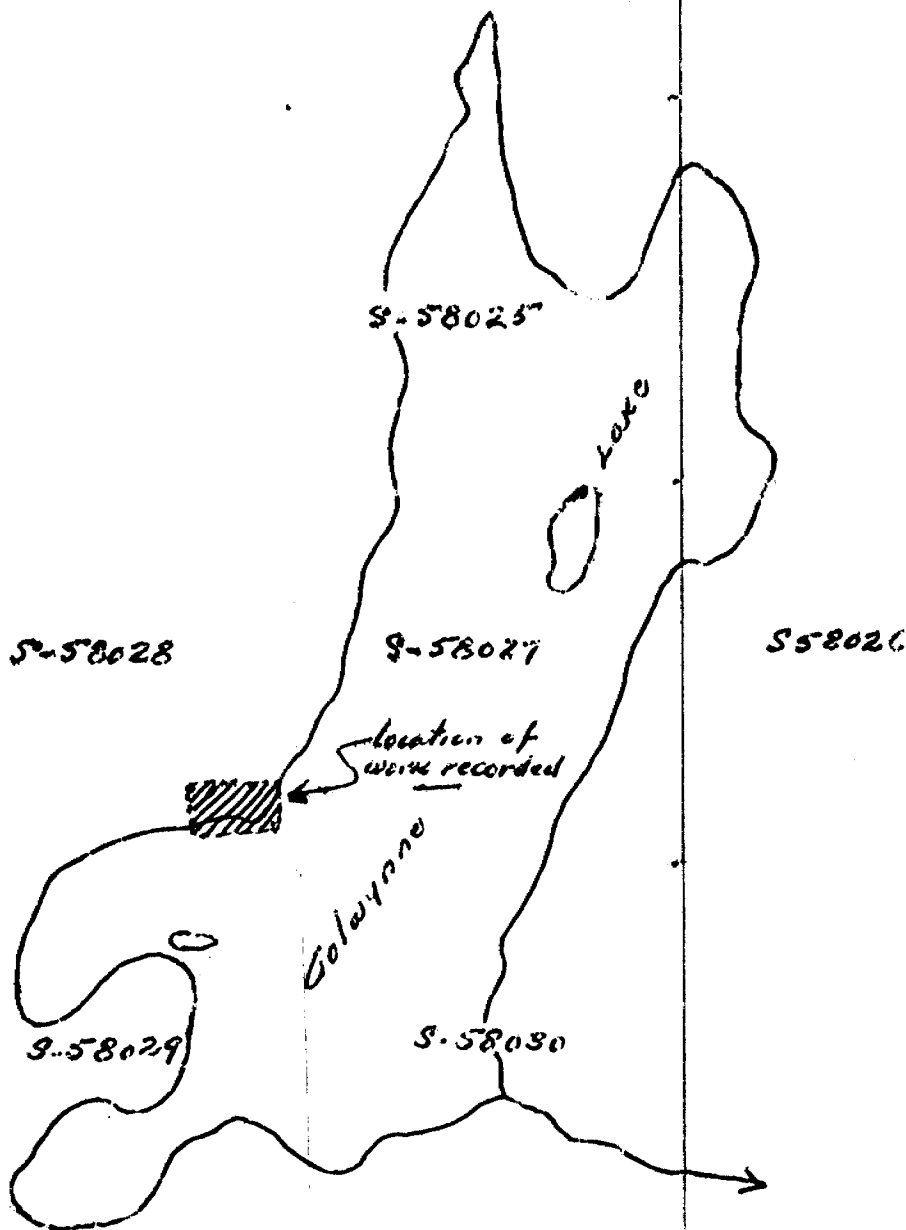
SKETCH.  
Showing J. J. Kenney Claims - Golwyne L.  
Dist. of Nipissing.  
Scale 1/4" = 2"

BUTLER

ANTOINE

S-58024

S-58023

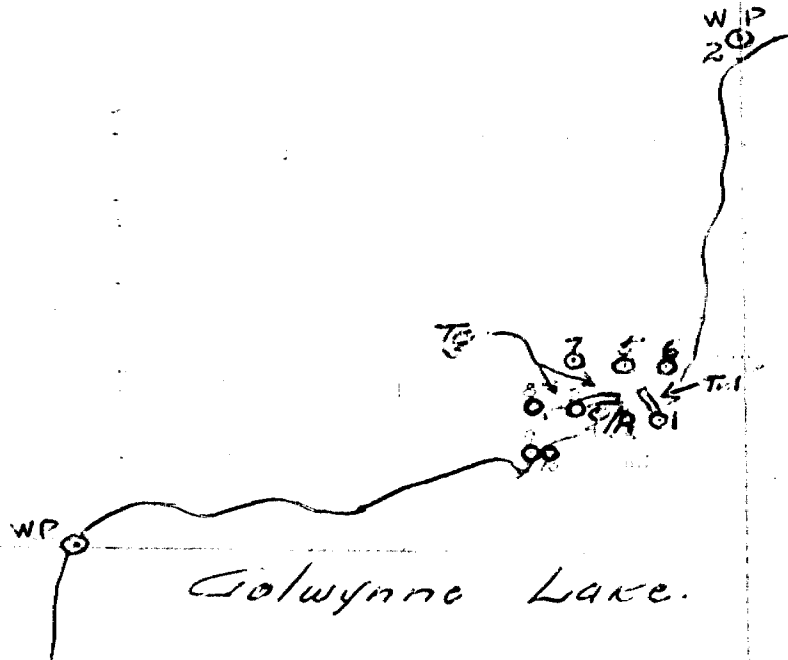


S-58028

4

10

3



Plan showing location  
'E' Core D.D. Holes & Trenches  
on Mining Claim S-58028  
Twp. of Antoine  
Dist. of Nipissing  
Prov. of Ontario  
Scale 1:320'-6"

RECEIVED

SEP 27 1872

RECEIVED  
SUBBURY

50' NORTH

DH7

DH5

00' NORTH

DH8

DH4

30' NORTH

DH9

DH10

DH1

*Approved  
Silica Corp*

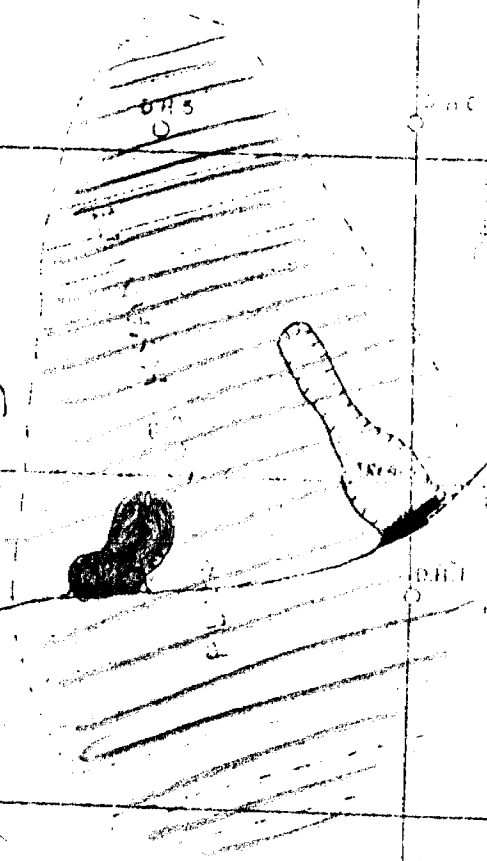
SHORELINE  
KYAN LAKE

PLAN OF DRILLING  
KYANITE SHOWING  
CLAIM 50029 BUTLER TWP.  
CAT. CAN.  
SCALE 1" = 30' FEB. 1882

100' WEST

100'

J. KENNEY





Hole No. 1 - Vertical

Started Jan. 9th 10.15 a.m. 1952

Finished Jan. 11th p.m. 1952

EL. Collar - 998'

Lat. - 80'N.

Dep. - 0'

Depth - 112'

Bottom - 886'

0'-5' Casing - 1' rock 2' water

-6'6" Black Gneiss - 30% Pyrite

-10'0" 60% Kyanite (Upper contact 20° - lower contact 30°)

-12'6" 2% Pyrite - fine grained - black gneiss?

-12'7" White quartz str.

-16'6" Spongy - heavily Pyritized, black rock

-16'8" White quartz str.

-18'6" Spongy - heavily Pyritized, black rock

-18'8" White Quartz str. - Fine grained black rock

-20'3" Black rock 2% Pyrite

-23'1" Pyrite, Quartz, Mica - BRECCIA - dip 70° - Kyanitic - 20%.

-32'0" Biotite Gneiss - Pyritized.

-46'0" Pyrrhotite, Pyrite, Mica - 30% Metallics

-46'1" Quartz

-47'6" Biotite Gneiss with quartz, pyrite, & mica flakes.

-47'10" Quartz

-48'11" Biotite gneiss with pyrite, pyrrhotite

-49'1" Massive Pyrrhotite

-49'10" Highly micaceous, pyritized

-50'1" Massive Pyrrhotite

-53'2" Pyrrho, pyrite, Mica - 20% metallics - Biotite gneiss.

-54'2" 50% muscovite flakes

112'0" Pyrrhotite, pyrite, mica, biotite gneiss 30% metallics.

Scale 20'-1"





HOLE NO. 2 - Vertical

Started Jan. 14th 10.40 a.m. 1952  
Finished Jan. 16th 400 p.m. 1952  
EL Collar 1002'

Lat. 106  
Dep. 100'W  
Depth 101'  
bottom 901'


- 0'-6'0" Casing - 1' rock 3½' overburden  
-7'6" Pyrite, biotite, Kyanite 5%  
-7'11" Biotite gneiss - fine grained
- 
- 16'10" Garnet, mica, feldspar - kyanite 20% (contact 16'10"-45°)
- 
- 17'7" (Grey-green) kyanite 25% musc. 40% Plus, Quartz (contact 45°)  
-21'7" Kyanite 30% Plus, musc. 50% Plus (contact 45°)  
-22'10" Kyanite 40%, musc. 50% (contact 10°-opp. dip to above)
- 
- 43'6" Garnets 30%, Kyanite 15%, Biotite, musc.
- 
- 43'10" (Greenish band) Feldspar, mica, kyanite (both contacts 30°)  
-52'2" Garnet, feldspar, kyanite 10%, musc. 20%  
-53'0" Pyritized, quartz band with kyanite & musc.
- 
- 82'85" Garnet, biotite, musc. kyanite
- 
- 82'7" Quartz str. dip 70°
- 
- 93'7" Garnet, musc. ~~xxxxxx~~ biotite, feldspar, kyanite
- 
- 93'7½" Pyrite
- 
- 101'0" Garnet Musc, Biotite, Feldspar, Kyanite.



HOLE NO. 3 - Vertical

Started - Jan. 17th a.m. 1952  
Finished - Jan. 18th p.m. 1952  
EL Collar 999'5"

Lat. 94°N.  
Dep. 44°W  
Depth 115'  
Bottom 884'5"



0'6"	Casing
-10'6"	40% Plus kyanite with pyrite & mica
-11'0"	Fine grained black gneiss
-11'6"	Fine Grained Quartzite
-14'0"	Fine Grained black gneiss
-14'10"	Quartzite with quartz inclusions
-19'3"	Fine Grained black gneiss
-19'4"	Pyrite
-32'9"	Fine grained biotite gneiss with Qtz. Strs. pyrite, pyrrhotite, about 3% Kyanite
-32'10 $\frac{1}{2}$ "	White Quartz dip 5°
42'7"	25% Kyanite with muscovite & biotite - some pyrite
43'2"	Pink Feldspar inclusions - (Porphyritic) Granite?
54'10"	Bluish Grey, fine grained, contorted
115'0"	Fine grained, dark grey (biotite gneiss) <u>Pyrrhotite, Pyrite, Chalcopyrite</u> - 3%

PROPERTY J. Kenney, Butter Twp.

HOLE NUMBER 4

SHEET NUMBER

SECTION FROM 0' TO 100'

# DIAMOND DRILL RECORD

LOCATION: LAT. 0179'S - 0275'W. N<sup>o</sup> 1-S. 58028

STARTED Jan. 19/52

DEP. ....

COMPLETED Jan. 22/52.

ELEVATION OF COLLAR Case Level.

DATUM .....

ULTIMATE DEPTH 100'

DIRECTION AT START: BEARING .....

PROPOSED DEPTH .....

DIP Vertical

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-21.2"	black Gneiss - Pyr. Pyrrho. to 4%				
28.8"	pink (felds) Gneiss.				
67.3"	black Gneiss - Pyr. Pyrrho. with some Chalkop. near biton bed.				
87.10"	pink (felds) Gneiss - micaceous				
91.0"	black Gneiss - a little Pyr.				
100.0	Garnet-Mica Gneiss - schisted.				

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM No. 501 REV. 9/44

DRILLED BY Subterra Expl. Co. North Bay.

SIGNED [Signature] Supt.

HOLE NO. 4 - Vertical

Started Jan. 19, 1952  
 Finished Jan. 22, 1952  
 Elev. Col. 1002'

Lat. 100'N  
 Dep. 75'W  
 bottom 892'  
 Depth. 100'

0-6'	Casing 1 1/2' rock		
-8'2"	Pyrite, Pyrrhotite, Mica, Kyanite	Bottom Angle	20°
-15'7"	Black Gneiss 2% Sulphides	" "	30°
-16'7"	Black Gneiss 4% sulphides with 1" Qtz.str.		20°
-18'8"	Blue streaked (Kyanite) Pyrrhotite, Pyrite, Mica		
-19'0"	Some kyanite along 1" Qtz.Str.	Bottom Angle	45°
-19'8"	Black gneiss with quartz blebs.		30°
-20'4"	Micaceous quartz Pyritized		20°
-21'2"	Black gneiss with quartz blebs.		40°
-22'8"	Pink Gneiss		30°
-34'0"	Black gneiss pyritized 4% Py.		
-34'5"	Bluish Quartz Top angle 25°		40°(opr.)
-37'6"	Black gneiss 3% pyrite		35°
-38'9"	White quartz top angle 10°		50°
-40'10"	Black gneiss		
-48'0"	Blue streaked black gneiss with Qtz. str.		
-48'1"	Quartz str.		30°
-67'3"	Blue Grey Black Gneiss 5% Pyrrhotite, Pyrite, Chalco		
-78'8"2	Micaceous, felds. schist (pink Gn?) Angle of Schistosity 35°		
-79'2"	Quartz str. top angle 20°		
80'8"	Mica felds. Schist same as 78'8"		
- 80'9"	Quartz str. angle 35°		
-87'10"	Mica, feldspar, schist		
-91'0"	Dark blue grey black gneiss - some pyrite top angle		50°
100'0"	Mica, feldspar, schist (Garnets 95' to 98'6" with quartz str. at bottom.		

PROPERTY J.T. Kenney - Butler Twp.

HOLE NUMBER 5

SHEET NUMBER

SECTION FROM TO

# DIAMOND DRILL RECORD

LOCATION: LAT. 1129'S & 150'W - N°1 - S-58028  
 DEP.

STARTED Jan. 24/52

ELEVATION OF COLLAR 14' above Lake Level.  
 DATUM

COMPLETED Jan. 25/52  
 ULTIMATE DEPTH 105'

DIRECTION AT START: BEARING  
 DIP Vertical.

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 14.0	black Gneiss - Pyrite				
21.9"	Kyanite 50%				
23.11"	Black Gneiss - Pyrite				
34.4"	Gtze. pyritized.				
69.7"	black Gneiss - Pyrite & Pyrrhotite 4%				
95.5"	" " " " 1% with Gtz str.				
105.0	Quartzite with Pyrite & Pyrrho				

*[Handwritten signature]*  
 Supt.

DRILLED BY Subterra Expl. Co. North Bay.

SIGNED

HOLE NO. 5 - Vertical  
Started Jan. 24, 1952.  
Finished - January 25, 1952.  
EL. Col. (App.) 1016'

Depth - 105.0  
Lat. 150°N  
Dept. 10°E  
Bottom 911'

0'4" - Casing - 1' rock.  
14'0" Black Gneiss - Pyrite  
21'9" Kyanite 60%-top angle 60° btm. angle - flat.  
23'11" Black gneiss - Pyrite  
24'0" Quartz str. Top angle 45°  
34'4" Light grey - pyritized - (possibly pink gneiss)  
  
69'7" Black Gneiss - Pyrite, Pyrrhotite 4%  
  
84'6" Black Gneiss with Quartz blebs. & Strs. P. & Py.  
  
95'0" Black Gneiss - green streaked - P. & Py. 1%  
95'5" Quartz str.  
100'0" Quartz - hard, slightly magn. Pyrrho. & Py. (green grey)  
101'4" Quartz  
105'0" Quartz, hard, magnetic - Pyrrho. & Py. (grey Green)

PROPERTY J. Kenney - Butler Twp.

HOLE NUMBER 6  
 SHEET NUMBER .....  
 SECTION FROM 0 TO 100'

# DIAMOND DRILL RECORD

LOCATION: LAT. 1123'S & <sup>94'</sup> ~~212~~ W N:1-S-58028  
 DEP. ....  
 ELEVATION OF COLLAR 7'8" above Lake Level.  
 DATUM .....  
 DIRECTION AT START: BEARING .....  
 DIP Vertical.

STARTED Jan. 26/52  
 COMPLETED Jan. 27/52  
 ULTIMATE DEPTH 100'  
 PROPOSED DEPTH .....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 16.0	black Gneiss - Pyrrhotite - Pyrite.				
19.9'	Kyanite 50%				
20.0	black Gneiss - Pyrrhotite - Pyrite.				
20.2"	Kyanite 50%				
51.6"	black Gneiss - Pyrrhotite - Pyrite				
60.6'	pink (feldspathic) Gneiss				
61.2'	black Gneiss - Pyrite				
62.6'	pink (folds) Gneiss.				
63.0	black Gneiss				
90.6"	Interbedded - black & pink Gneiss - with Pyrrho. & Pyr.				
100.0	Quartzite.				

*[Handwritten Signature]*  
 Supt.

DRILLED BY Subterra Expl. Co. North Bay.

SIGNED .....



HOLE NO. 6 - Vertical

Started Jan. 30 p.m. 1952.  
Finished Feb. 1st p.m. 1952.  
El. Collar - 1008'8"

Lat. 156'n  
Dept. 6' E  
Depth - 100'

btm. 908'8"

0'8" - Casing 2" in rock

16.0	Black Gneiss - Pyrite, <u>Pyrrhotite</u>
16.9	<u>Kyanite 60%</u>
20'0	<u>Pyrrhotite-Pyrite-B. Gneiss</u>
20.2	<u>Kyanite 60%</u>

51.6      Pyrrhotite-Pyrite - B. Gneiss

60.6      Pink Gneiss? (light grey to blue grey color)  
61.6      Black Gneiss - Pyrite  
62.6      Pink Gneiss (as above)  
63.0      Black Gneiss

90.6      Intermittent black & Pink Gneiss  
            (Grey to blue grey with Pyrite & Pyrrhotite)

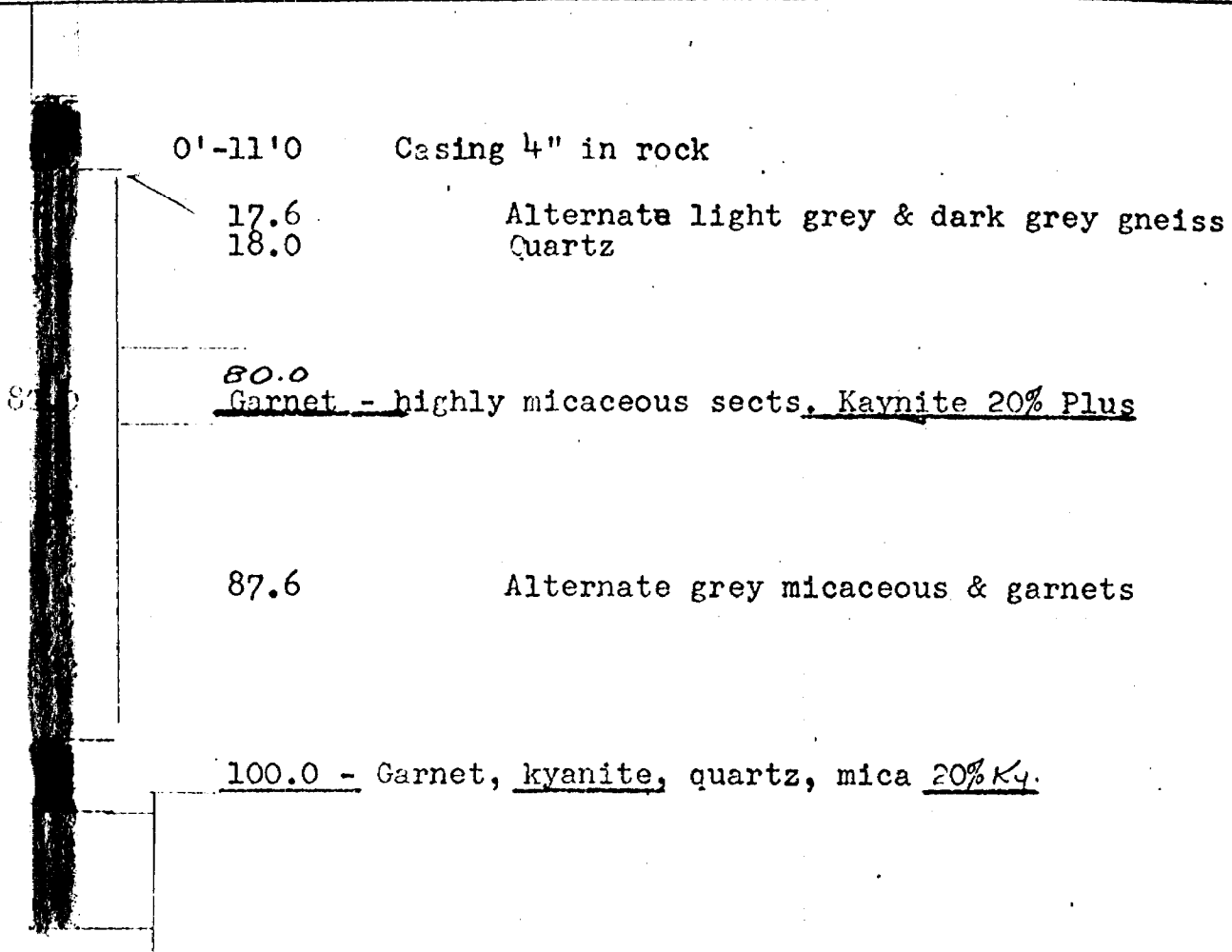
100.0      Light grey with narrow dark grey bedding, Quartzitic.



HOLE NO. 7 - Vertical  
Started Jan. 30, 1952.  
Finished Feb. 1, 1952.  
El. top Casing 1008'0

Lat. 150'N  
Dep. 99'3"W  
Depth 100'  
Btm. 908'0

Btm. -



PROPERTY J. Kenney, Butler Twp.

HOLE NUMBER 8

SHEET NUMBER .....

# DIAMOND DRILL RECORD

SECTION FROM 0' TO 102'

LOCATION: LAT. 1186' S. = 254' W. of #1 - S-58028

STARTED Feb. 4/52

DEP. ....  
ELEVATION OF COLLAR 6' above Lake Level.

COMPLETED Feb. 5/52

DATUM .....

ULTIMATE DEPTH 102'

DIRECTION AT START: BEARING .....  
DIP Vertical

PROPOSED DEPTH .....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-17.6"	Dense black Gneiss - Kyanite 10%				
19.10"	fine grained Micaceous schist.				
23.0	Garnet-Musc. Gneiss - large Crysts. Ky. & Qtz. str.				
31.0	fine grained Mica schist - minor Ky.				
45.2"	Garnet-Musc. Gneiss - Kyanite 15%				
53.6"	" " " - minor Ky.				
57.6"	Pinic (feldspathic) Gneiss or Qtz. - pyritized				
77.0"	Garnet-Mica Gneiss				
86.0	highly micaceous - Garnet Mica Gneiss - Qtz. - rusty & fractured.				
86.6"	milky white Qtz. with rusty garnets.				
102.0	fine grained black - Diabase or Diorite				

*[Handwritten Signature]*  
SIGNED ..... Sept.

HOLE NO. 8 Vertical  
Started Feb. 4, 1952 a.m.  
Finished " 5, 1952 p.n.  
El. Top Casing - 1007'0

Lat. 99°N  
Dep. 154°W  
Depth 102'

btm. 905'0

0'-11.0 Casing - 4" in rock


12.0	Dense black gneiss - <u>Kyanite 15%</u>
17.6	Dense Black Gneiss ( <u>Kyanite 20%</u> long crystals to 2") <u>pyrite</u>
19.10	<del>fine grained micaceous schist</del>
23.0	<u>large crystals Kyanite</u> - Garnet with Qtz. Strs.
31.0	Fine grained micaceous - Minor Kyanite
45.2	Garnet - <u>Kyanite 20%</u>
53.6	Garnet - Minor kyanite
57.6	Grey, pyritized with little kyanite - (Pink gneiss?)
77.0	Garnetiferous - micaceous
77.3	Pink feldspar
86.0	Highly micaceous, garnet, qtz. rusty & fractured
86.6	Milky white quarts with rusty garnets
102.0	Dense black gneiss - fine grained - (Diabase?)



Lat. 50°N  
Dep. 150°W  
Depth 100.0

HOLE NO. 9 Vertical  
Started Feb. 6, 1952.  
Finished Feb. 7, 1952 p.m.  
El top casing 1003.6

Btm. 903.6



0'-7.0	Casing 14" in rock
29.0	Pyritized quartzite?
29.6	Quartz
<u>74.0</u>	Garnet, Muscovite, <u>Kyanite 20%</u>
74.6	Quartz
<u>100.0</u>	Garnet, muscovite, feldspar, quartz, <u>kyanite 15%</u>





HOLE NO. 10 - Vertical  
Started Feb. 9, 1952.  
Finished Feb. 11, 1952.  
EL top casing 1001'

Lat. 50'N  
Dep. 125'W  
Depth 100'  
Bottom 901'

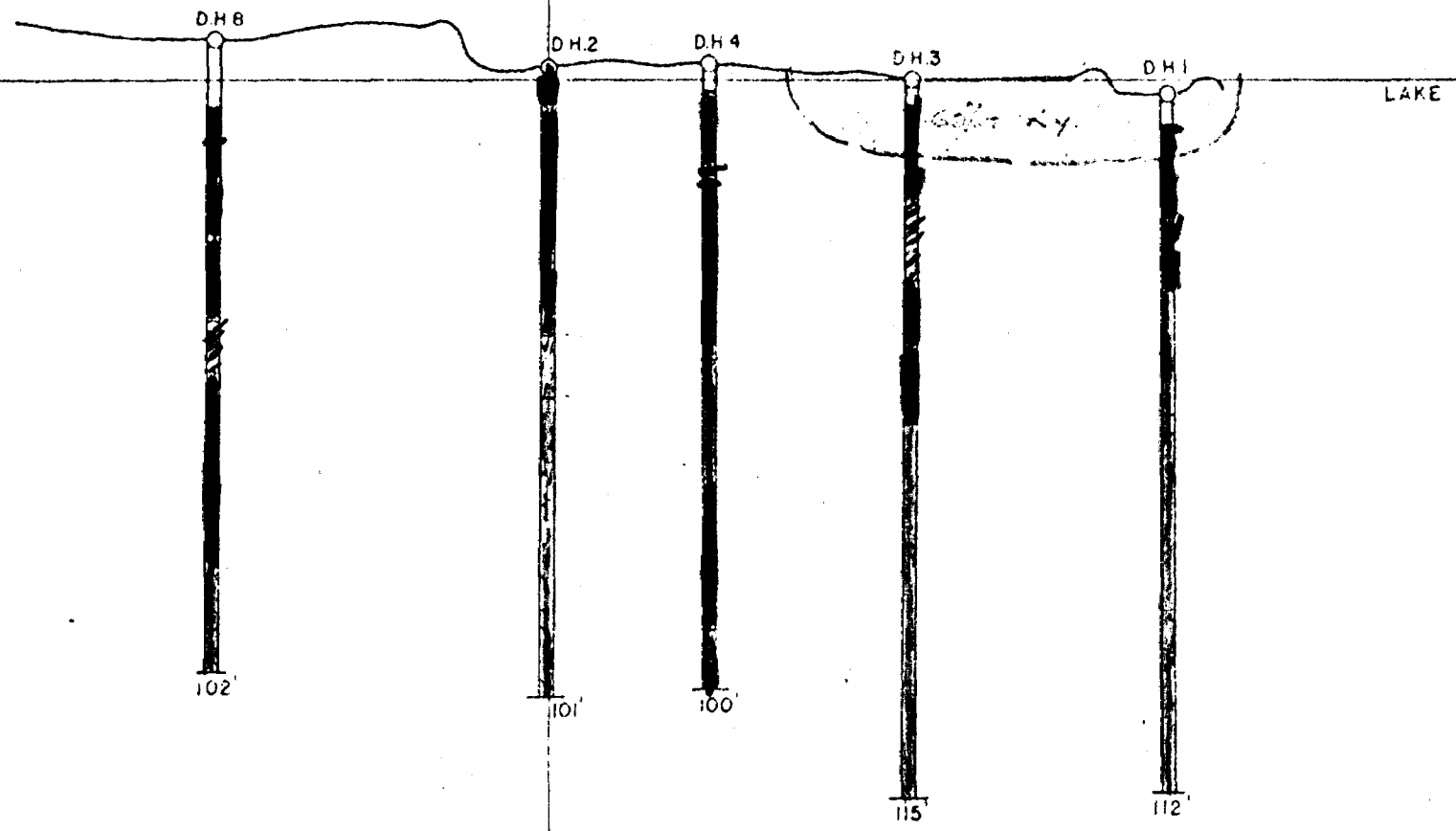


0'-6' - Casing - 2' in rock

14'6" Pyritized Black Gneiss

100'0" Garnet, Kyanite - 15%

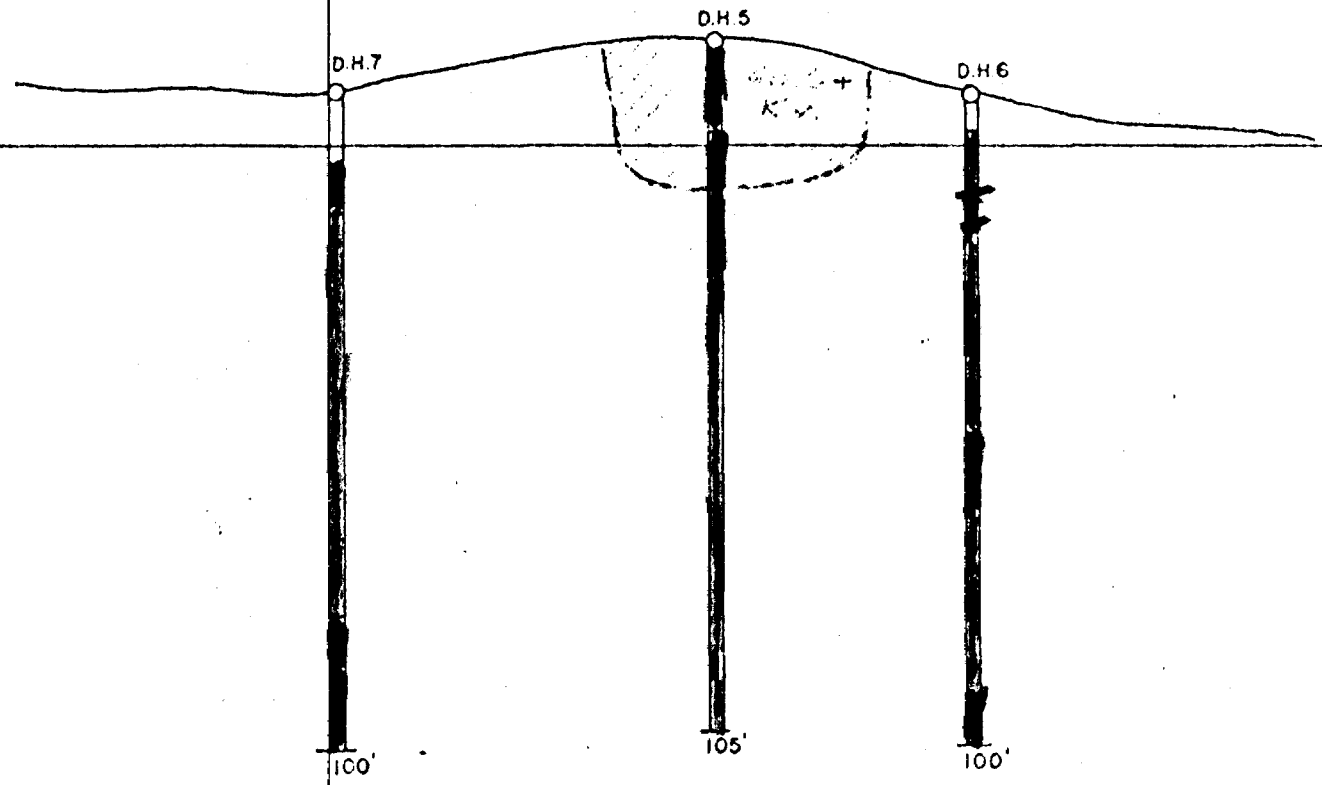
0' EL.



100' WEST

SECTION 100' NORTH  
LOOKING NORTH  
SCALE 1" = 30'

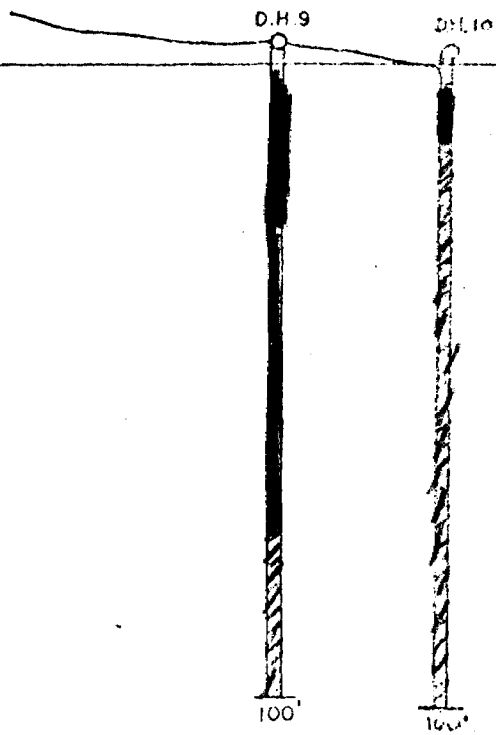
EL.



100' WEST

SECTION 150' NORTH  
LOOKING NORTH  
SCALE 1" = 30'

0' EL.



LAKE

100' WEST

SECTION 50' NORTH  
LOOKING NORTH  
SCALE 1" = 30'

GOLWYNNE CHEM. CORP.  
LOCATION of DRILL HOLES.

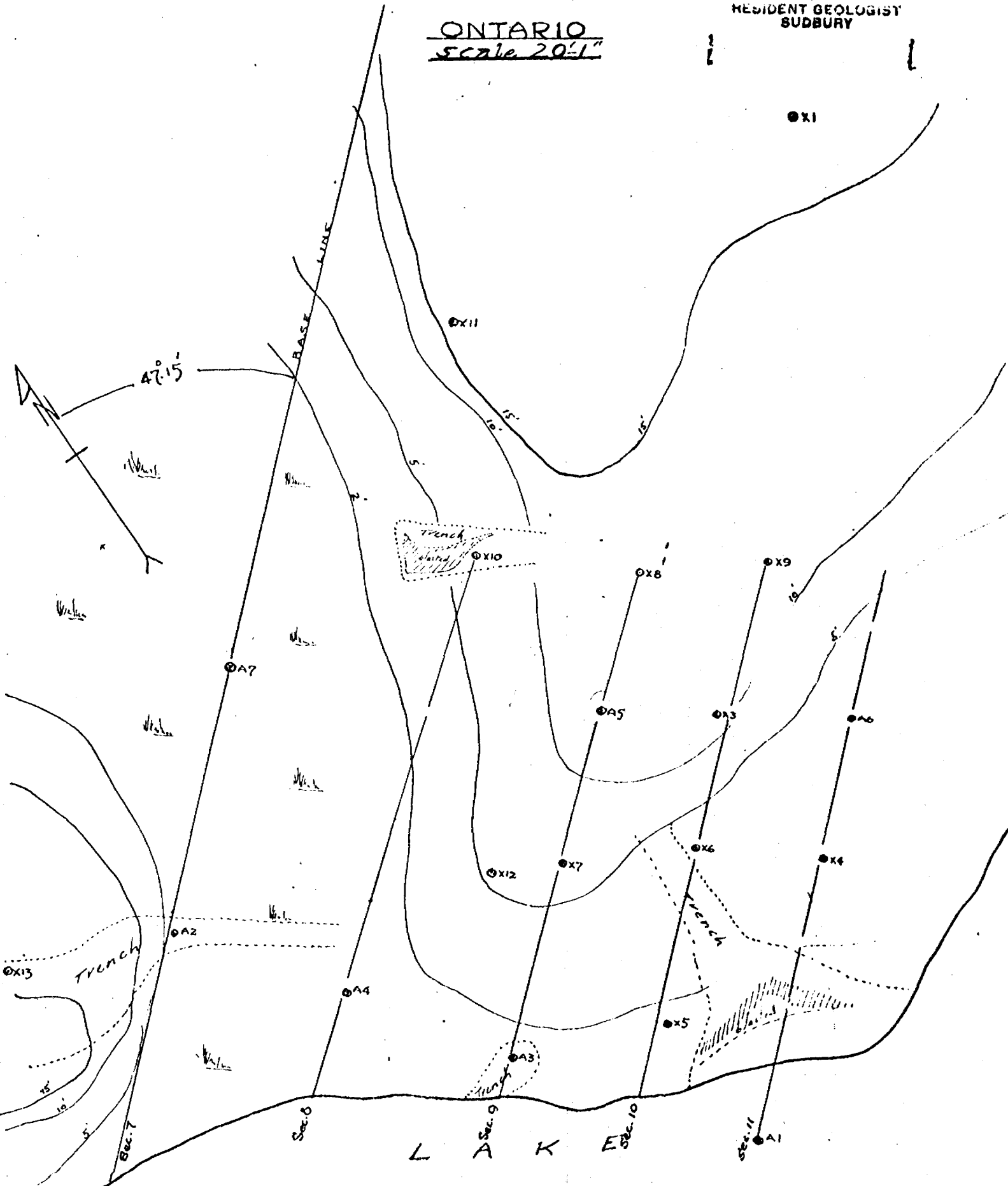
RECEIVED

KYANITE PROSPECT

SEP 27 1972

RESIDENT GEOLOGIST  
SUDBURY

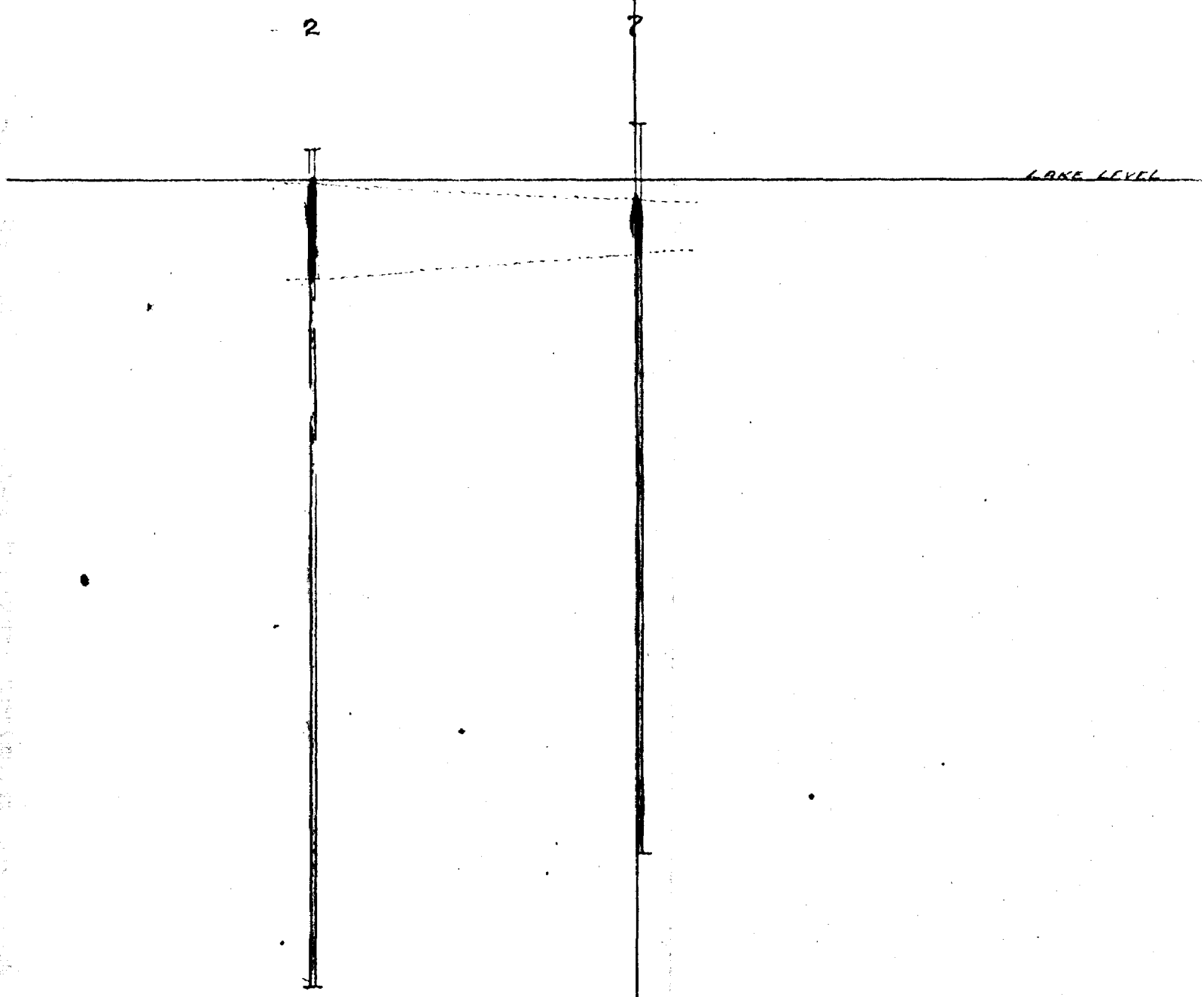
ONTARIO  
scale 20:1"



X-SECTION

Section 7 - Holes 2, 7.

scale 20'-1"



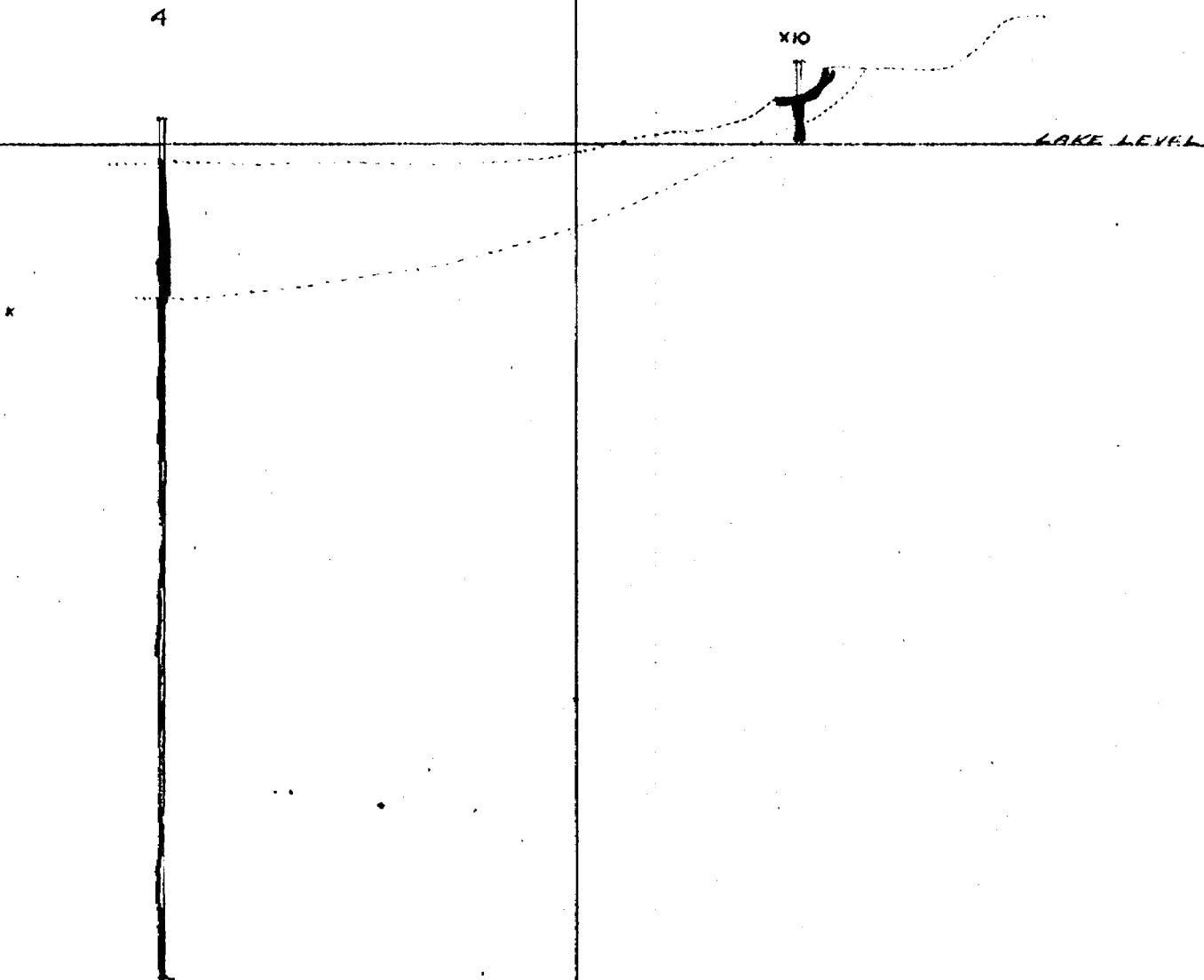
LAKE LEVEL

A Zone

X-SECTION

Section B - Holes 4, X10

scale 20'-1"

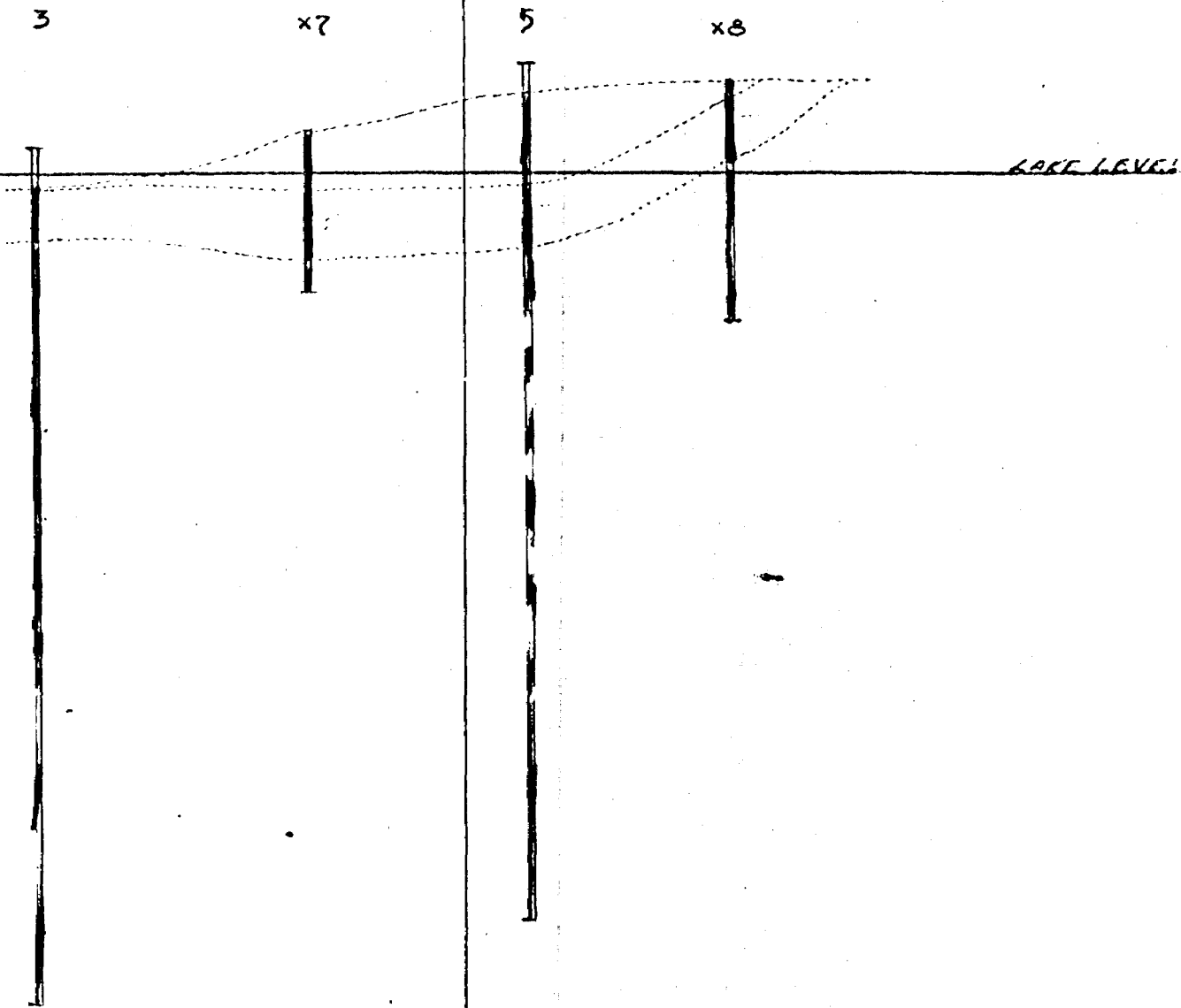


A Zone

X-SECTION

Section 9 - Holes 3, x7, 5, x8

Scale 20'-1"



A Zone



X - SECTION

Section 10 - Holes x5, x6, x3, x9.

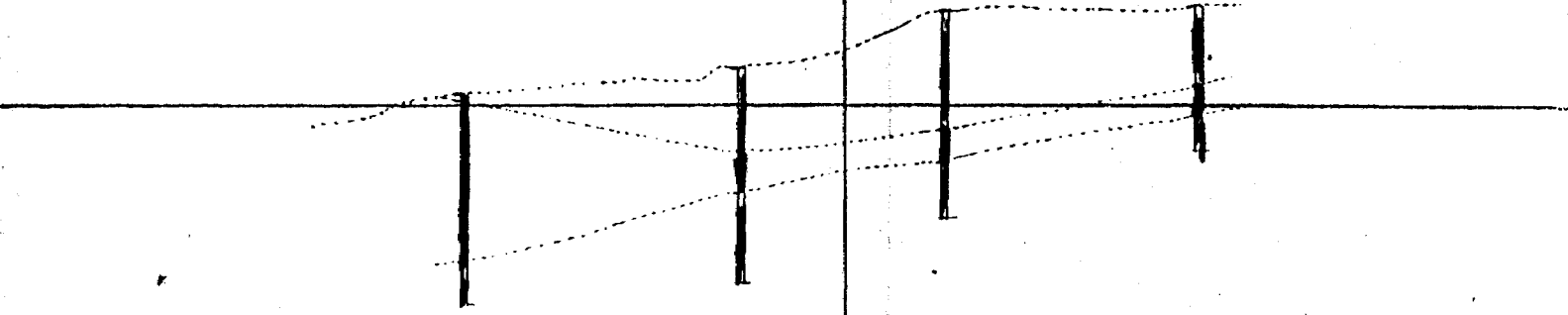
scale 20'-1"

x5

x6

x3

x9






# X-SECTION

Section II - Holes 1, x4, 6.

Scale 20' = 1"

COLOR INTERPRETATION

	50% + KYANITE
	GARNET GNEISS
	QUARTZITE - Pyritised & Sulphidated

