



42A07NE0162 15 BOND

010

### Diamond Drilling

Township of Bond

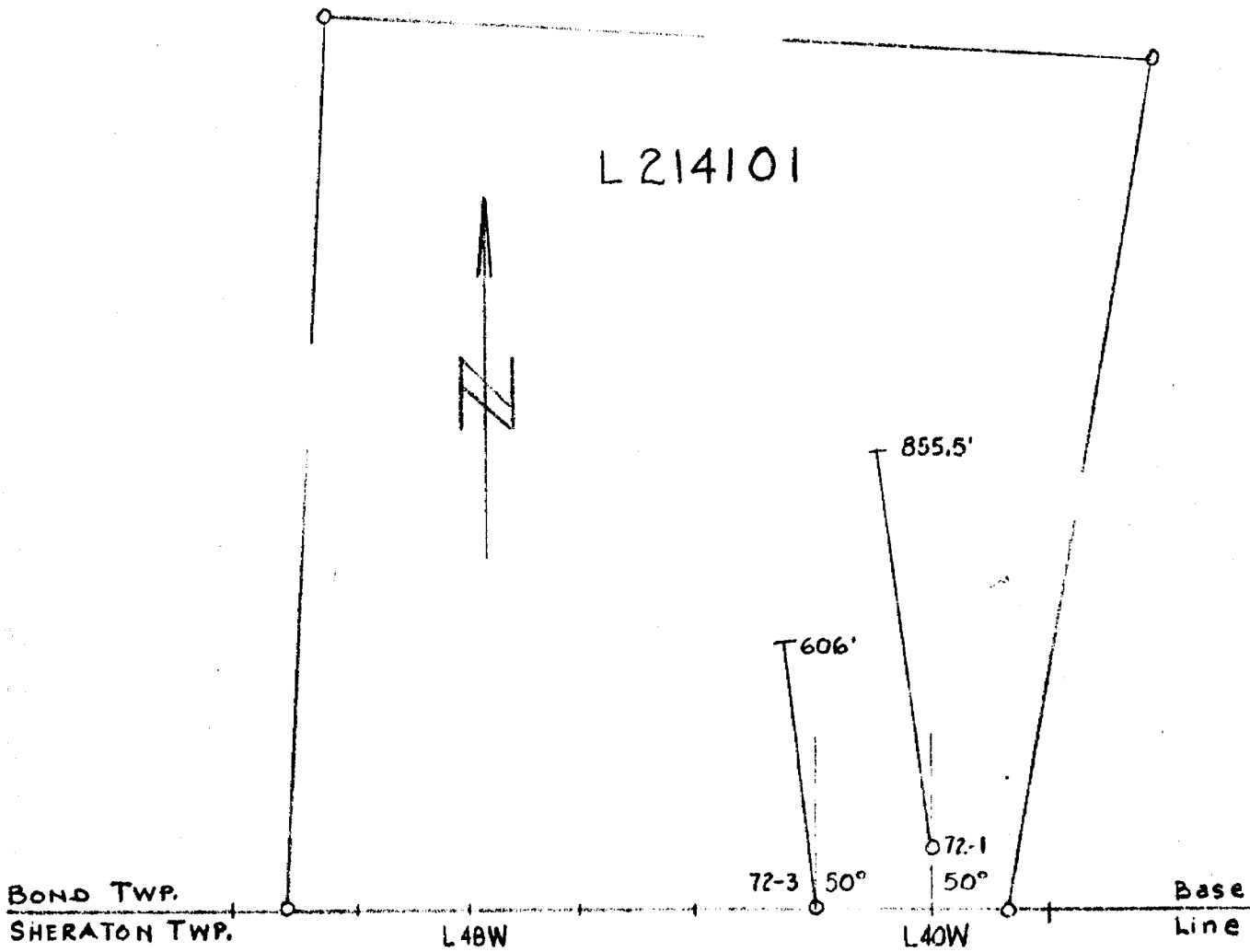
Report No: 15

Work performed by: Seaway Copper Mines (D. McKinnon)

Claim No	Hole No	Footage	Date	Note
L 214101	72-1	855.5'	Jan/72	(1)
	72-3	606'	Feb/72	(1)
	72-5	600'	Mar/72	(2)
L 214102	72-4	702'	Feb/72	(1)
L 214090	72-7	525'	Apr/72	(2)
	<u>5</u>	<u>3288.5</u>		

#### Notes:

- (1) 72/72
- (2) 39/73



DRILL HOLE LOCATION

HOLES 72-1 & 72-3

1" = 300'

T.P.S.

# DIAMOND DRILL RECORD

PROPERTY SEAWAY COPPER MINES LIMITED HOLE NO. 72-1  
 TOWNSHIP Bond Township PAGE NO. 1

LOCATION Line 40W CORE LOCATION core shack STARTED January 6, 1972.  
Station 1+00N DATUM \_\_\_\_\_ COMPLETED January 31, 1972.  
 BEARING N10°W DEPTH 855.5'  
 ELEVATION \_\_\_\_\_ DIP 50°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Zn %	Pb %	Cu %	Ag oz.
0 - 135	Casing (overburden).						
135 - 159.5	Slate: black with clots of marcasite, bedding @ 10 - 35° to c.a. 155 bedding @ 40° to c.a.						
159.5 - 166.5	Tuff: very fine grained, light grey, soft, schistose @ 45° to c.a., slight pyrite.						
166.5 - 593.5	Slate: grey-black, argillaceous in places, bedding at 70° to c.a., slight pyrite occasionally graphitic.						
190 - 195	slight sphalerite in seams & fractures with calcite (whole core)	1-1	5.0				
195 - 200	about 10% sph. in breccia zone with slate fragments & calcite (whole core)	1-2	5.0				
200 - 205	as above (whole core)	1-3	5.0				
205 - 210	slight sphalerite (whole core)	1-4	5.0				
205 - 275	occasional showings of sphalerite						
263	slight cpy. with sphalerite						
365 - 369	feldspar quartz porphyry with disseminated pyrite						

Drilled By Lake Superior Diamond Drilling

Signed [Signature]  
 SHIELD GEOPHYSICS LIMITED

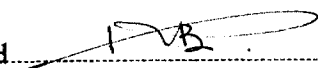
# DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-1  
 TOWNSHIP..... PAGE NO. 2

LOCATION..... CORE LOCATION..... STARTED.....  
 ..... DATUM..... COMPLETED.....  
 ..... BEARING..... DEPTH.....  
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Zn %	Pb %	Cu %	Ag oz.
	410 - 415 slight sphalerite (whole core)	1-5	5.0				
	415 - 420 core missing						
	420 - 425 about 4% sphalerite & galena in calcite filling fracture zone	1-6	5.0				
	425 - 426 2% sphalerite with calcite						
	450 bedding @ 75-80° to c.a.						
	474 few grains of sphalerite & galena						
	475 - 477 sphalerite in fractures						
	556.5 - 565.0 narrow generally conformable feldspar porphyry dykes with pyrite						
	565 - 575 generally black & somewhat graphitic with clots of marcasite						
	580 - 582 sphalerite & galena in seams of calcite filling fractures.						
593.5 - 641.0	<u>Feldspar Quartz Porphyry</u> : grey, medium to coarse grained, massive, lathes of feldspar up to 1/4", slight sphalerite & galena mostly in fractures but some diss. grains & slight diss. pyrite.						

Drilled By.....

Signed .....  
 SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-1  
 TOWNSHIP..... PAGE NO. 3

LOCATION..... CORE LOCATION..... STARTED.....  
 ..... DATUM..... COMPLETED.....  
 ..... BEARING..... DEPTH.....  
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Zn %	Pb %	Ag oz.	Au oz.	Cu %
	593 - 600 slight sphalerite	1-7	7.0					
	600 - 605 " "	1-8	5.0					
	635 - 640 " "	1-9	5.0					
	640 - 645 slight sphalerite in fractures at contact, slight cpy., galena	1-10 637.5 g.s.-7	5.0					
	bottom contact @ 90° to c.a.							
641 - 706	Graphitic Slate: bedding at 90° to c.a., grey to black, about 10% clots and seams of pyrite &/or marcasite.							
	618 slight sphalerite & cpy.							
	646.5 sphalerite in seams							
	700 - 705 pyrite	1-11	5.0					
706 - 759	Andesite: altered, light green, soft, carbonatized sli. pyrite, hematite, occ. qtz. stringers.							
	705 - 710	1-12	5.0					
759 - 780	Andesite Agglomerate: medium green, harder, lapilli up to several inches, with irregular pinkish quartz stringers.							

Drilled By.....

Signed .....

SHIELD GEOPHYSICS LIMITED



# DIAMOND DRILL RECORD

PROPERTY SEAWAY COPPER MINES LIMITED HOLE NO. 72-3  
 TOWNSHIP Bond Township PAGE NO. 1

LOCATION Line 42+00w CORE LOCATION core shack STARTED February 12, 1972  
Base line DATUM \_\_\_\_\_ COMPLETED February 25, 1972  
 BEARING \_\_\_\_\_ N10°W DEPTH 606'  
 ELEVATION \_\_\_\_\_ DIP 50°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Au oz.	Ag oz.		
0 - 152	Casing (overburden).						
152 - 166.5	Andesite Tuff: green with light grey lapilli, schistose @ 45° to core axis.						
	161-165 rusty fractures after pyrite - generally at 45° to core axis						
166.5 - 170.7	Graphitic Slate: black with bedding @ 60° to c.a.; up to 15 per cent pyrite generally as conformable seams.						
	167 3" massive pyrite						
170.7 - 321.9	Andesite Tuff: green, schistose @ 45° to c.a., much carbonate as stringers & grains.						
	229 ½" conformable str. of salmon coloured granite						
	259.1-264 felsic intrusive, light grey feldspar phenocrysts & chlorite or biotite in matrix; diss. pyrite & qtz. stringers						
	260-264	3-1	4.0				
	286.4-287.1 graphitic slate, bedding at 70° to c.a., bottom contact brecciated						

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 SHIELD GEOPHYSICS LIMITED

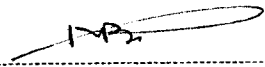
# DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-3  
 TOWNSHIP..... PAGE NO. 2

LOCATION..... CORE LOCATION..... STARTED.....  
 ..... DATUM..... COMPLETED.....  
 ..... BEARING..... DEPTH.....  
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Zn %	Pb %	Ag oz.
	314-321.9 felsic intrusive (?), grey, fine grained, porphyroblasts or corroded phenocrysts of white feldspar, moderate pyrite dissemination					
321.9 - 606	Slate: black, bedding @ 70-85° to c.a., occasionally graphitic, slight pyrite initially as rusty seams.					
	385-390 3% sphalerite as seams & gashes, bedding @ 75° to c.a.					
	418 3" quartz carb. str. with py., minor po.					
	453.5 6" irregular qtz.-carb. vein with some py.					
	462 2" " " " str. with py.-po.					
	509-512.5 disuniform felsic intrusive; fine to medium grained, with quartz str., slight pyrite-pyrrhotite					
	526.5-527.5 5% sphalerite in calcite seams, slight chalcopryite, bedding @ 80° to core axis					

Drilled By..... Lake Superior Diamond Drilling

Signed..... 

SHIELD GEOPHYSICS LIMITED



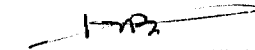
# DIAMOND DRILL RECORD

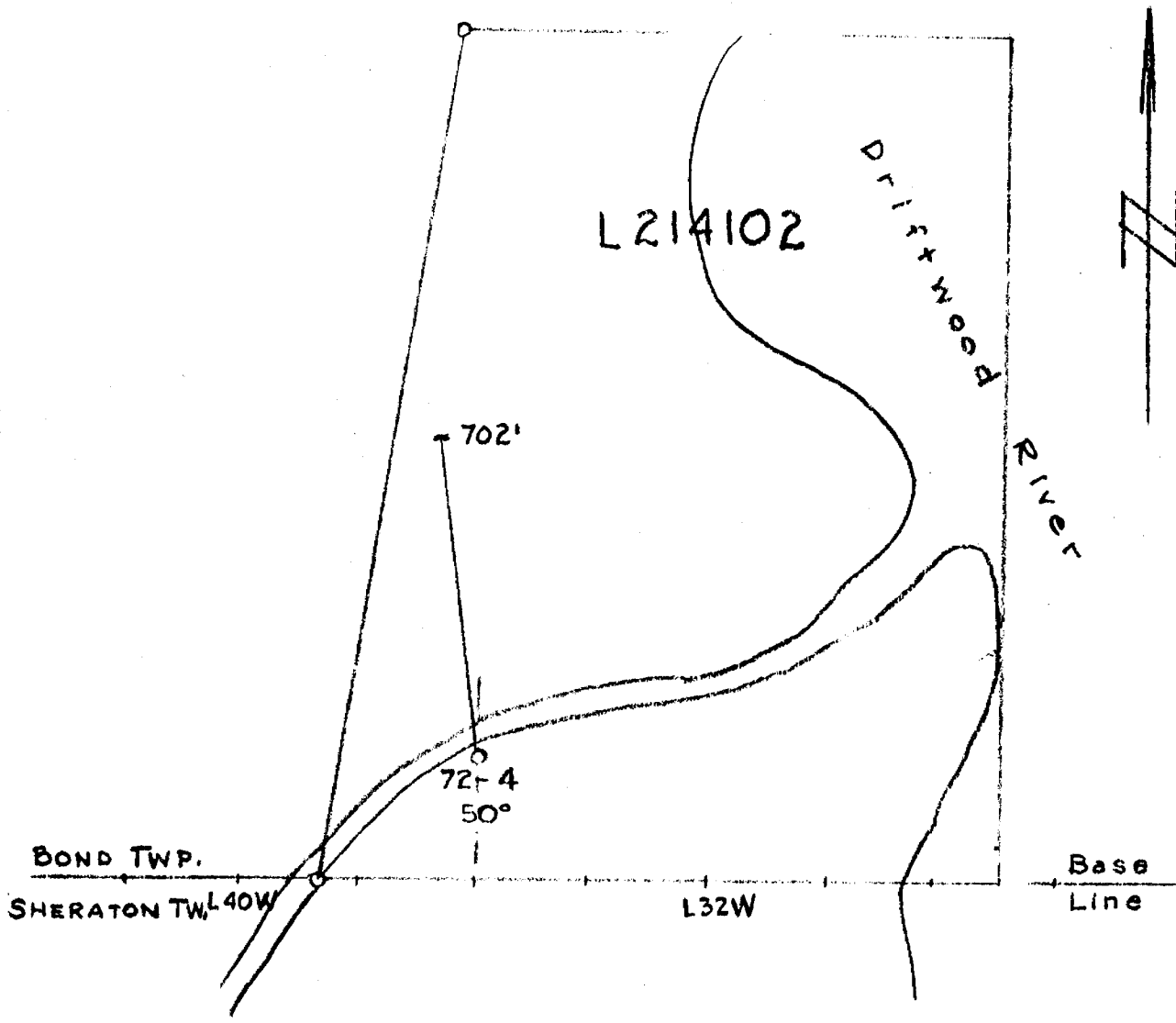
PROPERTY..... HOLE NO. 72-3  
 TOWNSHIP..... PAGE NO. 3

LOCATION..... CORE LOCATION..... STARTED.....  
 ..... DATUM..... COMPLETED.....  
 ..... BEARING..... DEPTH.....  
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Zn %	Pb %	Ag oz.
	561.8-567.0 colour change from grey to black, approx. 5% sphalerite, galena, py. in seams & gashes paralleling core	3-2	5.2			
	595-600 2% sphalerite, galena, pyrite in gashes paralleling core	3-3	5.0			
	600-605.5 3% sphalerite, galena, pyrite, cpy. in gashes & seams generally paralleling core	3-4	5.5			
606	END.					
	<u>DIP TESTS</u>					
	0 - 50°					
	150' - 47°					
	300' - 44°					
	600' - 18°					

Drilled By Lake Superior Diamond Drilling

Signed .....  
 SHIELD GEOPHYSICS LIMITED



DRILL HOLE LOCATION  
HOLE 72-4

1" = 300'

*DB*

# DIAMOND DRILL RECORD

PROPERTY SEAWAY COPPER MINES LIMITED HOLE NO. 72-4  
 TOWNSHIP Bond Township PAGE NO. 1

LOCATION Line 36W CORE LOCATION camp site STARTED February 28, 1972.  
Station 2N DATUM \_\_\_\_\_ COMPLETED March 14, 1972.  
 BEARING N 10° W DEPTH 702'  
 DIP 50°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz.	Ag/oz.	Zn %	Pb	Cu %
0 - 130	Casing.							
130 - 151.4	<u>Andesite Tuff</u> : dark green, fine grained, foliation @ 50° to core axis, some granitization suggested by white porphyroblasts. 148.5 - moderate pyrite as seams and clots in rusty fractures							
151.4 - 160.0	<u>Slate</u> : black, graphitic, carbonate, gashes and seams, bedding @ 50° to c.a., 15% pyrite mainly in seams, bottom contact appears tuffaceous.							
160.0 - 168.5	<u>Feldspar Porphyry</u> : grey-white, fine to medium grained with black mineral (tourmaline ?), moderate pyrite dissemination.							
	160 - 165	4-1	5.0					
	165 - 168.5	4-2	5.0					
168.5 - 208.5	<u>Slate</u> : black, graphitic, carbonate, 10-15% pyrite.							
208.5 - 215.0	<u>Feldspar Porphyry</u> : as above, with quartz str. & slightly disseminated pyrite, pyrrhotite, sphalerite, galena, chalcopyrite in that order	4-3	6.5					

Drilled By Lake Superior Diamond Drilling

Signed [Signature]  
 SHIELD GEOPHYSICS LIMITED




# DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-4  
 TOWNSHIP..... PAGE NO. 3

LOCATION..... CORE LOCATION..... STARTED.....  
 ..... DATUM..... COMPLETED.....  
 ..... BEARING..... DEPTH.....  
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Au/oz.	Ag/oz.		
	260 - 262.4 irregular quartz stringers with pyrite, slight galena sphalerite	4-4	2.4				
281.5 - 326.7	Slate: black, bedding @ 70° to c.a., slight pyrite.						
326.7 - 330.6	Feldspar Porphyry: white phenocrysts in feldspathic matrix, slight pyrrhotite dissemination.						
	329.8 possible fine V.G. with chloritic seams at 45° to c.a.						
330.6 - 646.7	Slate: black to grey, bedding @ 70° to c.a., slight pyrite.						
	401.1 - 2" quartz str. with pyrite @ 70°						
	401.6 - 1" " " " " "						
	425.7 - 427.0 5-10% sphalerite-galena in carbonatized section						
	451.0 - 453.0 seams & gashes of calcite with sphalerite (about 5%)						
	487.0 - 646.7 graphitic with calcite seams & 5-10% pyrite.						

Drilled By.....

Signed .....

SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-4

TOWNSHIP..... PAGE NO. 4

LOCATION..... CORE LOCATION..... STARTED.....

..... DATUM..... COMPLETED.....

..... BEARING..... DEPTH.....

ELEVATION..... DIP.....

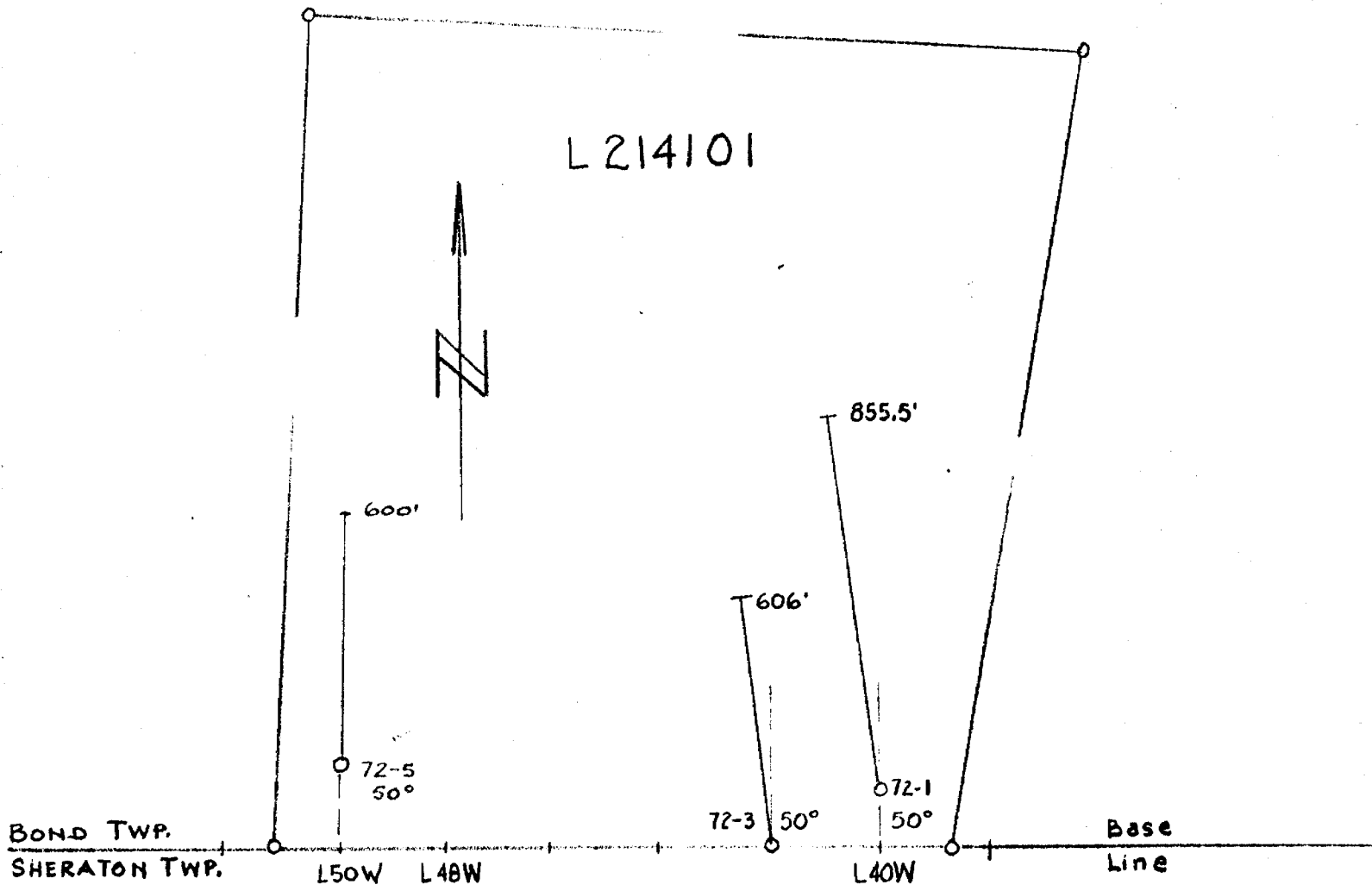
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	548.8 - 550.0 about 5% sphalerite as grains and stringers						
	567.2 - 4" slightly brecciated zone with calcite & 5-10% sphalerite-galena						
	587.6 - slight chalcopyrite						
	637.0 - sphalerite-galena along contact of 1/2" qtz. str. @ 45° to c.a.						
646.7 - 702.0	<u>Carbonatized Intermediate Volcanic: sharp contact @ 70° to c.a., well foliated at 70° to c.a., variable green, soft, perhaps tuffaceous, slight pyrite.</u>						
	675 - 702 less foliation, apparently less carbonate						
702	END.						
	<u>DIP TESTS</u>						
	0' - 50°						
	300' - 44°						
	600' - 20°						
	702' -						

Drilled By.....

Signed I. P. S.

SHIELD GEOPHYSICS LIMITED

L 214101



DRILL HOLE LOCATION

HOLES 72-1 & 72-3, 72-5

1" = 300'

# DIAMOND DRILL RECORD

214101

PROPERTY SEAWAY COPPER MINES LIMITED HOLE NO. 72-5  
 TOWNSHIP Bond Township PAGE NO. 1  
 LOCATION Line 50W CORE LOCATION core shack STARTED March 1, 1972.  
Stat. 1+30 N DATUM \_\_\_\_\_ COMPLETED April 15, 1972.  
 BEARING north DEPTH 600'  
 ELEVATION \_\_\_\_\_ DIP 50°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
0 - 190	Casing (overburden)						
190 - 420	Slate: v. fine grained, black with bedding @ 45°-70° to core axis; much fine carbonate seaming, moderate pyrite dissemination as clotted seams, core highly broken, initially carbonaceous becoming less so deeper, occasional showings of sphalerite and galena.						
205-220	1-3% sphalerite & galena in seams, grains, generally assoc. with carbonate & brecciation						
from 225	core less broken						
243-244.5	very f. grained, grey felsic intrusive @ 30° to core axis						
288.0	few fine seams of sphalerite in bedding planes with calcite						
300-301.5	3% sphalerite & galena, in seams & fractures						
310.3	little sphalerite						
313.5-317.0	grey, uniform, medium soft, fine grained tuff ?						

Drilled By Lake Superior Diamond Drilling

Signed [Signature]  
SHIELD GEOPHYSICS LIMITED



# DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-5

TOWNSHIP..... PAGE NO. 2

LOCATION..... CORE LOCATION..... STARTED.....

..... DATUM..... COMPLETED.....

..... BEARING..... DEPTH.....

ELEVATION..... DIP.....

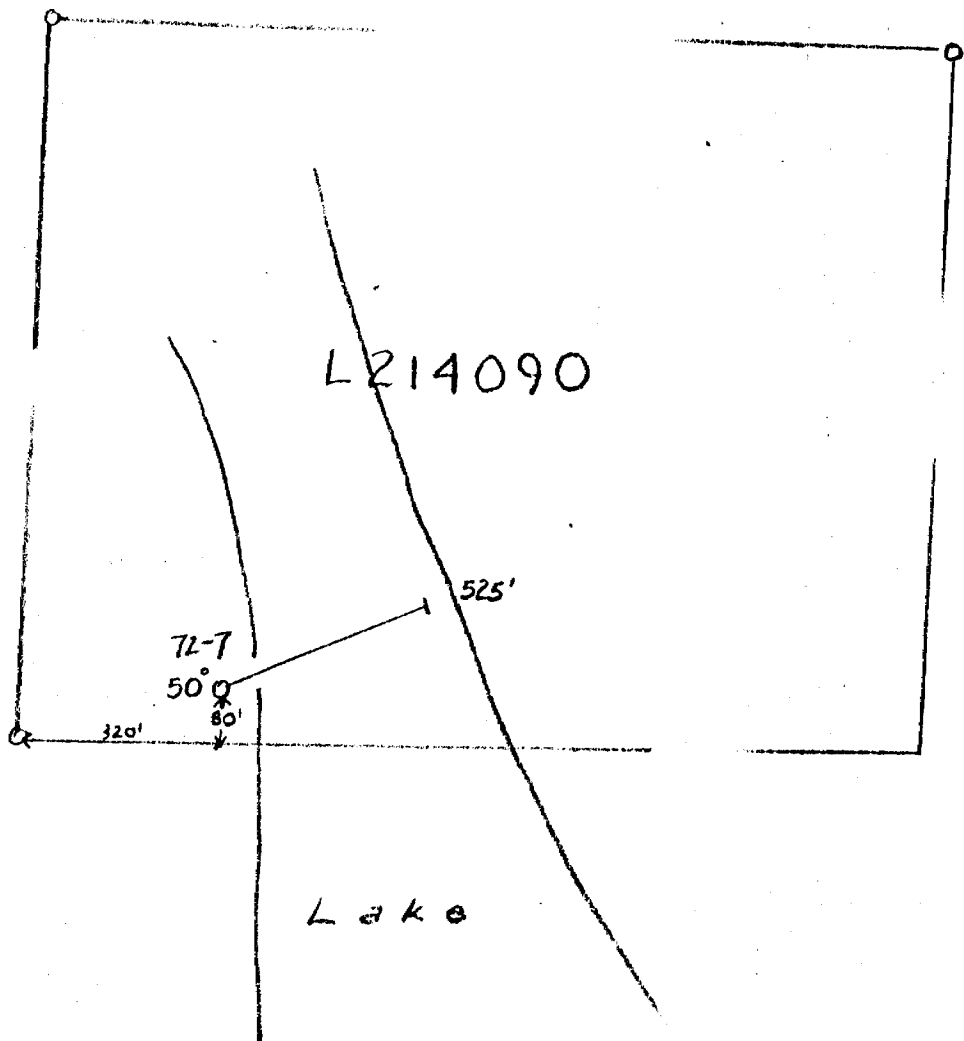
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE			
	323.5-327.3 grey, uniform, medium soft, fine grained tuff ?					
	327.3-330.0 1% sphalerite-galena in seams					
	336-338 few fine seams of sphalerite-galena					
	364 sphalerite & galena in fine fracture paralleling core					
	393 little sphalerite					
420 - 450.5	Graphitic Slate: highly carbonaceous, graphitic fractures @ 30° to core axis, moderate pyrite, carbonate, slight sphalerite-galena.					
	432.6-435 less than 2% diss. sphalerite					
	435-442 light coloured dragged tuff in part graphitic					
	447.8 1/8" sphalerite seams in bedding					
450.5 - 463.0	Intermediate to Felsic Tuff: light grey to light green, fine grained, banded @ 80° to c.a., highly carbonatized, some carbonaceous (graphitic) sections, much pyrite to 460'.					
	462 1" of sphalerite, sli. cpy. in seams					

Drilled By.....

Signed KB.....

SHIELD GEOPHYSICS LIMITED





*Bond Trip.  
Report # 39/73  
Donald McKinrow*

DRILL HOLE LOCATION  
HOLE 72-7  
1" = 300'

# DIAMOND DRILL RECORD

214090

PROPERTY SEAWAY COPPER MINES LIMITED HOLE NO. 72-7

TOWNSHIP Bond Township PAGE NO. 1

LOCATION 27+60'N of B.L. CORE LOCATION core shack STARTED April 7, 1972.

135'W of L32W DATUM \_\_\_\_\_ COMPLETED April 12, 1972.

BEARING N68°E DEPTH 525'

ELEVATION \_\_\_\_\_ DIP 50°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ni%			
0 - 55	Casing (overburden).						
55 - 204.6	<u>Feldspar Porphyry</u> : large white (with pink cast) feldspar phenocrysts up to ¼" in dark green very fine grained hard matrix; occasional grey-white quartz stringers, slight pyrite, occasional hematite stained fractures.						
	102-119 foliation and banding @ 30° to core axis marked by alignment of feldspar & epidote						
	109.5-110 soft rusty micaceous mineral aligned at 25° to c.a. - fault?						
204.6 - 254	<u>Diabase</u> : very fine grained, fractured, dark grey-green, with moderate pyrite diss. as grains up to ¼".						
	220	g.s.		nil			
254 - 287.5	<u>Feldspar Porphyry</u> : as above.						
	287.0 6" qtz. str. with slight pyrite and chalcopryite at contact @ 50° to c.a.						
287.5 - 387	<u>Diabase</u> : fine to very fine grained diabasic texture; dark green, uniform.						

Drilled By... Lake Superior Diamond Drilling

Signed [Signature]  
SHIELD GEOPHYSICS LIMITED

