



Diamond Drilling

010

Township OF BELFAST

Report No: 11

Work performed by: Obabika Mines Limited

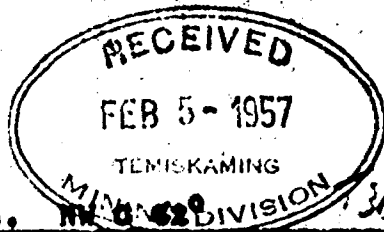
Claim No	Hole No	Footage	Date	Note
T 36547	1	73.0'	Oct/56	
	2	95.0'	Oct/56	
	3	33.0'	Oct/56	
	4	26.0'	Oct/56	
	5	53.0'	Oct/56	
	6	201.0'	Oct/56	
	7	177.0'	Oct/56	
	8	177.0'	Oct/56	
	9	173.0'	Nov/56	
	10	209.0'	Nov/56	
	11	500.0'	Nov/56	
	14	440.0'	Dec/56	
	12	213.0'	Nov/56	
	13	201.0'	Dec/56	
	15	210.0'	Dec/56	
	16	151.0'	Jan/57	

Notes:

Total. 16 DH 2932.0'

DIAMOND DRILL HOLES

OBABIKA MINES LTD



DDH #1 - 7/8" core - N.3650', E.385' more or less. NW @ 52° 36527

FROM	TO	DESCRIPTION
0.0	2.5	GREYWACKE - fine-grained, dark gray, massive.
2.5	7.5	QUARTZITE - fine-grained, pale buff, local bedding @ 35-45
7.5	49.0	GREYWACKE - fine-grained, dark gray, massive, 8" quartz-breccia at 17.5'.
49.0	54.0	QUARTZITE - fine-grained, pale buff, more or less massive, small stringers pink carbonate.
54.0	73.0	GREYWACKE - fine-grained, dark gray, massive to more or less broken up, locally small stringers of pink carbonate. Mostly lost core from 68.0'.
73.0		END OF HOLE

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DDH #2 - X-ray core - N.2168, E.530. SE @ 55° 36533

0.0	25.0	QUARTZ-VEIN - white quartz, with short sections buff to more or less pink carbonate, locally a little chalcocopyrite.
25.0	62.0	QUARTZ DIABASE - medium to coarse grained, massive.
62.0	72.0	QUARTZ DIABASE - fine-grained, more or less altered, bleaching, sericite and carbonate.
72.0	95.0	QUARTZ DIABASE - mostly medium-grained, massive and unaltered.
95.0		END OF HOLE

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DDH #3 - 7/8" core - N.2168, E.530. SE @ 45° 36533

0.0	21.0	QUARTZ VEIN - white quartz with short sections buff to pink carbonate, more or less oxidation - 8.0' lost core
21.0	33.0	QUARTZ DIABASE - quite acidio, medium to coarse grained, massive.
33.0		END OF HOLE.

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DDH #4 - 7/8" core - N. 2160, E. 590. - Vertical 36533

0.0	26.0	Said to be all quartz vein with sections of buff to pink carbonate. (only 1' core received).
26.0		END OF HOLE

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DDH #5 - 7/8" core - N. 2160, E. 660 - Vertical 36546

0.0	50.0	Mostly chloritic, slightly sheared, diabase with short sections medium to coarse grained altered diabase.
50.0	53.0	QUARTZ VEIN
53.0		END OF HOLE - (hole abandoned).

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DDH #6 - 2000' N, 770' E. Dip Vertical

Start - Oct. 24/56
End - Oct. 29/56

FROM	TO	DESCRIPTION	3556
0.0	10.0	CASING	
10.0	30.0	QUARTZ DIABASE, coarse-grained, massive, unaltered.	
30.0	56.3	QUARTZ DIABASE - more or less sheared (sliced) and altered, with numerous tiny irregular quartz, quartz carbonate and pink carbonates, mostly at around 60° - 70° to core axis, about 70° quartz (gray) from 46.7 to 50.5'	
56.3	85.3	<u>VEIN</u> : some pink carbonate at start changing to white to dark gray quartz at 57.5' with short irregular sections light brown carbonate and few inches red-stained carb.	
85.3	97.6	QUARTZ DIABASE - more or less fine-grained, altered, slightly sheared (squeezed), about 15% quartz and quartz carbonate stringers, some deep red quartz with thin specular hematite in slips at 90' to 90.3'.	
76.6	201.0	QUARTZ DIABASE - coarse-grained, massive, unaltered, contains short sections more or less fine-grained.	
201.0		END OF HOLE.	
<p><u>Note</u>: Core recovery as measured between blocks seems quite good, some evidence of grinding in core barrel, here and there in veins and between 90' to 93'.</p>			

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DDH #7 - 2100' N, 770' E. Dip Vertical

Start - Oct. 30/56
End - Oct. 31/56

0.0	8.0	CASING	
8.0	25.0	QUARTZ DIABASE - coarse-grained, massive, unaltered, 6" quartz-chlorite-carbonate at 45° at 12.0'.	
25.0	73.7	QUARTZ DIABASE - more or less sheared (squeezed) and altered with numerous small quartz and quartz-carbonate stringers at 50-60° - 2.0' quartz-carbonate at 38.0' to 40.0' more massive fine grained diabase from 40.0' to 50.0' and 60' to 66'. 1.8' white quartz-carbonate at 45 at 51.7' to 53.5'.	
73.7	93.7	<u>VEIN</u> : white to gray quartz - about 10% white to pink carbonate locally some deep red quartz (or carbonate).	
93.7	177.0	QUARTZ DIABASE - slightly sheared (squeezed) at 70° to 95°, thence coarse grained, massive, unaltered, some short more or less fine-grained sections.	
177.0		END OF HOLE.	

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DDH #8 - 2200' N., 770' E. Dip vertical

Start - Oct. 31/56
End - Nov. 2/56

2206

FROM	TO	DESCRIPTION
0.0	15.0	CASING
15.0	92.8	QUARTZ DIABASE - mostly coarse-grained, with some short fine-grained sections, slightly sheared (squeezed) at 70° with tiny irregular quartz stringers from 40' to 55' - 1.5' quartz-carbonate at 70° at 47', 2.1' quartz-carbonate at 64.2', 2.7' white quartz-carbonate at 70', diabase fine-grained, altered, squeezed at 70° more or less from 80' to 92.8' with white pink few small quartz stringers.
92.8	107.0	<u>VEIN:</u> white to gray quartz with white, pink and brown carbonate (8%).
107.0	177.0	QUARTZ DIABASE - fine-grained, slightly sheared and altered to 107.5', thence mostly coarse-grained, massive, unaltered, with some short fine-grained sections.
177.0		END OF HOLE.

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DDH #9 - 2300' N., 770' E. Dip Vertical

Start - Nov. 3/56
End - Nov. 4/56

2206

0.0	7.0	CASING
7.0	91.8	QUARTZ DIABASE - coarse to medium-grained, massive, unaltered, slightly sheared (squeezed) at 70° - 80° from 140' to 24.0' - 1" quartz-carbonate, pink carbonate at 18.8', massive, unaltered from 24.0' to 44.0' thence slightly sheared (squeezed) at 70-80° to 53.0', 6" white quartz-carbonate at 47.5', a grain of chalcopyrite in massive diabase at 57.4', coarse massive diabase with short fine-grained sections to 74.0', thence slightly sheared at 70° with tiny quartz stringers - 12" gray quartz at 76.8'.
91.8	123.5	<u>VEIN:</u> at 70° - 90% white to dark gray quartz, 2.0' ground core at 100' to 105', 10% white carbonate, numerous tiny fractures with red hematite from 120' to 123.5'.
123.5	173.0	QUARTZ DIABASE - slightly sheared at 60 - 70° and altered, about 15% gray quartz-carbonate stringers to 130', thence mostly coarse-grained, massive, unaltered.
173.0		END OF HOLE.

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DDH. #10 - 2400' N., 770' E. Dip Vertical

Start Nov. 5/56
End Nov. 9/56

Yes

FROM	TO	DESCRIPTION
0.0	10.0	CASING.
10.0	13.8	VEIN: More or less irregular, more or less parallel to core, 50% white quartz, 10% buff carbonate, 40% diabase
13.8	28.0	QUARTZ DIABASE - slightly sheared (squeezed) at 60° and altered with numerous tiny quartz stringers.
28.0	35.2	VEIN: 80% white quartz, 3% carbonate, 17% diabase.
35.2	45.0	QUARTZ DIABASE - slightly sheared (squeezed) at 35-45° and altered, fairly numerous tiny quartz and pink carbonate stringers.
45.0	108.5	QUARTZ DIABASE - more or less fine grained, massive to 55' thence coarse-grained, massive, unaltered, slightly sheared (squeezed) at 70° and altered from 89' to 95' with tiny quartz stringers - 6" quartz carbonate 91.2', 4" at 93.9', massive, unaltered, coarse-grained from 95' to 108.5'.
108.5	115.5	QUARTZ DIABASE - slightly sheared (squeezed) at 60° with irregular quartz stringers.
115.5	139.5	VEIN: 95% white to gray quartz, 5% carbonate.
139.5	209.0	QUARTZ DIABASE - slightly sheared at 70° to 141' - 1.0' lost core 138 to 141', 1' lost core 141 to 143' - from 141' mostly coarse-grained, massive, unaltered; fine-grained, altered with tiny carbonate stringers more or less parallel to core from 181 to 184'.
209.0		END OF HOLE.

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365

DDH. #11 - 2000' N., 842' E. Az N50°W, dip collar -55°
at 500' - 53°

Start - Nov. 11/56
End - Nov. 22/56

0.0	7.0	CASING.
7.0	8.0	VEIN: 90% quartz - 10% diabase.
8.0	132.0	QUARTZ DIABASE - mostly coarse-grained, massive, unaltered core more or less broken up and blocky. 1.5' lost core 10.0' to 12.0', 0.6' lost core 150' to 17.0'. 4" quartz at 128.7' - squeezed at 70° with small quartz carbonate stringers from 129'.
132.0	153.0	VEIN: mostly all gray to white quartz with short sections squeezed diabase.
153.0	500 (?)	QUARTZ DIABASE - 2.5' lost core 153 to 157', squeezed diabase with quartz-carbonate stringers to 157' thence medium to coarse-grained quartz diabase, all massive, unaltered, short sections fine-grained - 2" quartz-carbonate 186' - 1" carbonate 40° at 193', 1" carbonate 40° at 216' - 3" quartz-carbonate at 40° at 243.3', short fine-grained and very coarse-grained sections, 1" quartz-carbonate at 35° at 461.2'.
500.0 (?)		END OF HOLE.

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DDH #12

Sample No. 2001 - trace gold, nil copper
" " 2002 - trace gold, .01% copper

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DDH #14 - 3600' N. 429' E. Az. N36° W. Dip - collar - 50° Start Dec. 6/56
 End Dec. 10/56

FROM	TO	DESCRIPTION
0.0	6.5	CASING
6.5	12.0	GREYWACKE - fine-grained, dark gray, massive.
12.0	17.8	ARKOSE (Quartzite) - fine-grained, pale gray, massive.
17.8	85.7	GREYWACKE - fine-grained, dark gray, massive. Core more or less broken up at 70° from 78' locally with some small irregular quartz-carbonate stringers. 1.8' lost core 83.9 to 85.7.
85.7	104.5	VEIN: 99% white quartz, 1% pink carbonate.
104.5	168.7	GREYWACKE - slightly broken up, few small stringers of pink carbonate to 107', thence fine-grained, dark gray, massive. Several (1'-2') beds of pale arkosic quartzite at 50°, 8" quartz at 60° at 168' to 168.7' beyond which carbonate.
168.7	440.0'	QUARTZ DIABASE - more or less squeezed (sheared) at 60° with tiny irregular quartz-carbonate stringers to 172' thence fine-grained, grading at 175 into medium to coarse-grained (more or less) massive, unaltered. 8" quartz-carbonate at 35° at 191.5. Quite fine-grained from 212.5' to 226.5' with some coarse-grained inclusions, fairly sharp contacts at 50°, some fine-grained sections from 275'. Squeezed (sheared) at 50° with tiny quartz-carbonate stringers from 275' to 278'. 2" Quartz at 70° at 310', several tiny quartz-carbonate stringers at 60° at 316.5' to 317.5' - 1" quartz-carbonate at 60° at 420'.
440.0		END OF HOLE

Lost hole due to cave - no cement.

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DDH #12 - 2800' N, 900' E. Vertical Start - Nov. 25/56
 End - Nov. 29/56

0.0	0.0	CASING
0.0	155.0	QUARTZ DIABASE - coarse to medium-grained, massive, unaltered, with short fine-grained sections with more or less sharply gradational contacts. Core more or less highly broken up (squeezed at 70°) with tiny quartz-carbonate stringers from 51' to 65' - 2" lost core at 51' to 54', 2.0 at 56' to 60', broken up at 76' to 77', more or less broken up at 70° at 138' to 142' with small quartz stringers, more or less squeezed at 70° at 153' to 155'.
155.0	168.0	VEIN: mostly gray to white quartz, about 5% carbonate and altered diabase.
168.0	168.9 2.9 2001	VRIN: 5% chloritic inclusion, 2% carbonate - a little pyrite.
168.9	183.7	VEIN: gray to white quartz - 3% carbonate.
183.7	202.0	QUARTZ DIABASE - more or less altered, locally squeezed at 70° with small irregular quartz-carbonate stringers
202.0	204.5 2.5 2002	60% irregular white quartz and pink carbonate, 40% chloritic diabase. 1/4" grain chalcopyrite in 1" quartz carbonate at 204.5'.

12/25/56

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Hole #12 cont'd.

FROM	TO	DESCRIPTION
804.5	813.0	QUARTZ DIABASE - squeezed at 70° to 208', thence coarse-grained, massive, unaltered.
813.0		END OF HOLE. Lost core barrel, bit, etc. in hole - abandoned.

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DDH #13 - 3200' N., 862' E. Vertical Start Dec. 1/56 36547
 End Dec. 4/56

0.0	10.0	CASING.
10.0	97.2	QUARTZ DIABASE - coarse to medium grained, with some short fine-grained sections, massive, unaltered. 3" quartz-carbonate at 70° at 60', 9" carbonate 68', 1" at 78'. Diabase more or less squeezed at 70° (broken up) from 93' to 97.2' with small quartz-carbonate stringers.
97.2	120.3	VEIN: 70% white quartz, 20% buff carbonate (about 80% of section from 105' to 109'), 10% chloritic diabase.
120.3	201.0	QUARTZ DIABASE - more or less squeezed at 70° and altered to 122' with small quartz-carbonate stringers thence mostly more or less coarse-grained, massive, unaltered.
201.0		END OF HOLE.

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DDH #15 - 2000' N., 950' E. Vertical Start - Dec. 14/56 31226
 End - Dec. 16/56

0.0	5.0	CASING
5.0	131.0	QUARTZ DIABASE - mostly medium grained, massive, unaltered, more or less broken up from 60' to 65' - 1" quartz-carbonate at 86', core more or less broken up (slightly squeezed at 60°) from 117.5' with 20% irregular quartz-pink carbonate stringers.
131.0	157.0	VEIN: 75% gray quartz - 20% pink and white carbonate 5% chloritic diabase.
157.0	164.0	QUARTZ DIABASE - (squeezed at 70°) more or less broken up 15% irregular quartz carbonate stringers.
164.0	177.0	VEIN: (20% core lost) 60% white to gray quartz, 10% pink carbonate, 30% broken up diabase.
177.0	210.0	QUARTZ DIABASE - medium to coarse-grained, massive, unaltered.
210.0		END OF HOLE.

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DDH #16 - 1771'N. 900'E. Dip - vertical

Start - Jan. 6, 1957
End - Jan. 8, 1957

From	To	Description
0.0	12.0	Casing
12.0	115.0	quartz diabase - mostly medium-grained, massive, unaltered; 12' very coarse-grained, epidotic, 28.0'; red iron oxide on joints from 85' to 88'; about 50% irregular white quartz with pink carbonate and red iron oxide from 107.5' to 115.0'.
115.0	148.7	<u>Vein</u> - 80% white to dark gray quartz, 15% buff carbonate, 5% slightly sheared and altered (chloritic) diabase, locally seams of pink carbonate and of red iron oxide.
148.7	151.0	quartz diabase - fine-grained, slightly sheared (?) ~ 50° to core axis, 20% irregular quartz stringers with some buff carbonate and red iron oxide.
151.0		END OF HOLE

26516

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D. Drilling done 1956
Cl. 36546

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Log by L. J. Cunningham

Hole No. 6 - vertical

0 - 11 - Ca sing

11 - 28 Diabase, coarse to medium grain

28 - 48 Sheared diabase - 30 degree/core

48 - 93 Qtz. carb. - zone

partially leached - diabase inclusions

no chalco visible

93 - 101 Sheared db

101 - 200 diabase, generally coarse- some fine grain sections

Hole No. 7 - 100 ft N. 40 E of No. 6-vertical

0 - 9' - Casing

9-- 23 - Diabase - med. to f.g.

23 - 38 - Sheared diabase

much qtz.carb. in minor irregular fractures, approx.

normal T/core, no mineral.

38 - 41 - Qtz. carb Breccia

41 - 70 - Sheared diabase with 2' Qtz. at 52-54

70 - 94 - Qtz. carb. zone, no mineral.

sheared inclusions showing hematite 60 deg/core

94 - 177 - Diabase- coarse to med. gr.

End of Hole.

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Hole No. 8 - 100ft. N.40E of #7. Vertical.

0 - 15 - Casing

15 - 59 - Diabase, coarse - some f.g.sections - several
narrow Qtz.-carb. sections

59 - 92 - Sheared db - 45 deg/core
contains much carb. in shearing with Qtz. carb.
as follows: 65-67; 70-73.

92 - 106 - Qtz. carb. zone - Barren - some brick
red feldspar

106 - 179 - Med. gr. diabase

Hole No. 9 - 100 ft. N 40 E of No. 8. Vertical.

0 - 7 - Casing

7 - 44 Diabase - ,F.G. to med.

44 - 52 - Sheared diabase, normal to core, whitish grey

52 - 72 - Diabase- f.g. to med.

72 - 90 - Sheared db. grey white some Qtz. inclusions

90 - 123 - Qtz. carb. zones of which bottom 10' blue qtz. no mineral.

123 - 130 - Sheared - 60/core - some qtz.

130 - 173 - db- f.g. to med.

End of Hole.

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Hole No. 10 - 100 ft. N-40-E of No. 9

0 - 10 - Ca sing

10 - 45 - Sheared db - 60 deg./core

Qtz. carb. inclusion as follows: 10-14; 27-36;

45 - 89 - db. Med. to f.g.

89 - 96 - Sheared db - 2 sections - 6" each of Qtz. carb.

96 - 109 - db. med. gr.

109 - 115 - Sheared db. - 60 deg./core

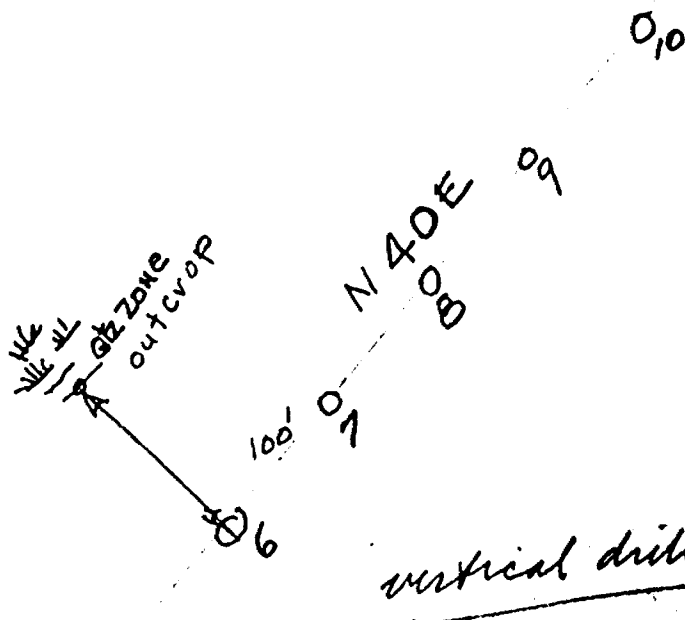
115 - 139 - Qtz.-carb. zone- with little carb

and both sections of Qtz. blue.

139 - 153 - db. med. to coarse.

Hole continuing to 300 feet.

N(AST)



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OBABIKA MINES, Ltd.

Belfast Township

D. Range

SUMMARY OF DRILLING

Claim No.	Hole No.	Core Size	Location		Bearing	Dip	Length
			North	East			
T-36546	5	EX	2160	660		Vert	53
"	6	AX	2000	770		Vert	201
"	7	AX	2100	770		Vert	177
"	8	AX	2200	770		Vert	177
"	9	AX	2300	770		Vert	173
"	10	AX	2400	770		Vert	209
"	11	AX	2600	842	N56°W	-55°	500
"	12	AX	2800	900		Vert	213
"	15	AX	2000	950		Vert	210
"	16	AX	1771	900		Vert	151
							<u>2064'</u>
T-36547	1	EX	3650	385	N56°W	-62°	73
"	13	AX	3200	862		Vert	201
"	14	AX	3600	429	N56°W	-50°	440
							<u>714'</u>
T-36533	2	X-RAY	2168	530	856°E	-55°	95
							= 47 (for assessment purposes)
"	3	EX	2168	530	856°E	-45°	33
"	4	EX	2160	590		Vert	26
							<u>106'</u>
							<u>2884'</u>

ASSESSMENT WORK

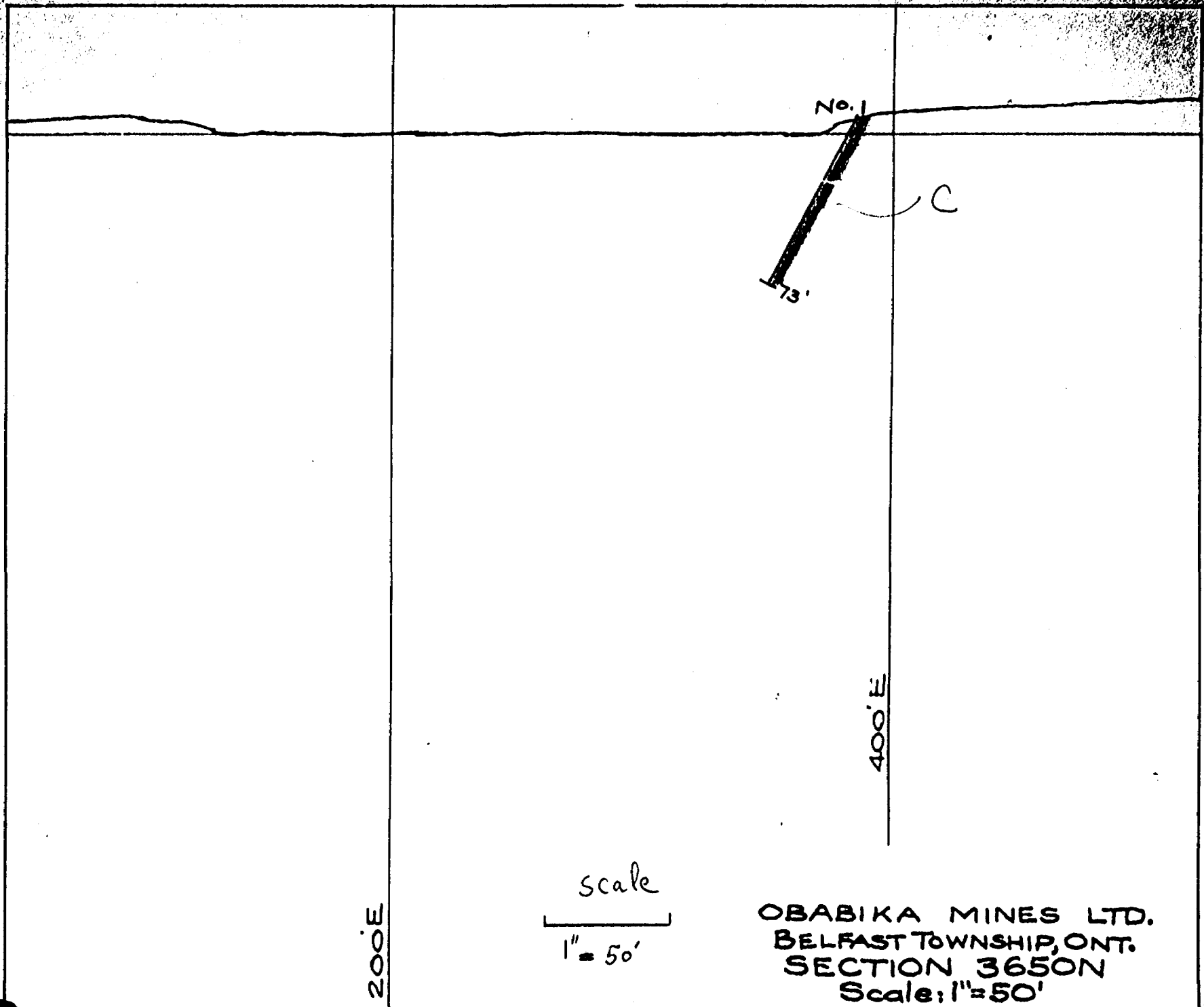
Rec'd from Mining Recorder

Harley Gury

Date Feb. 7/57 W.J.

Resident Geologist





200'E

400'E

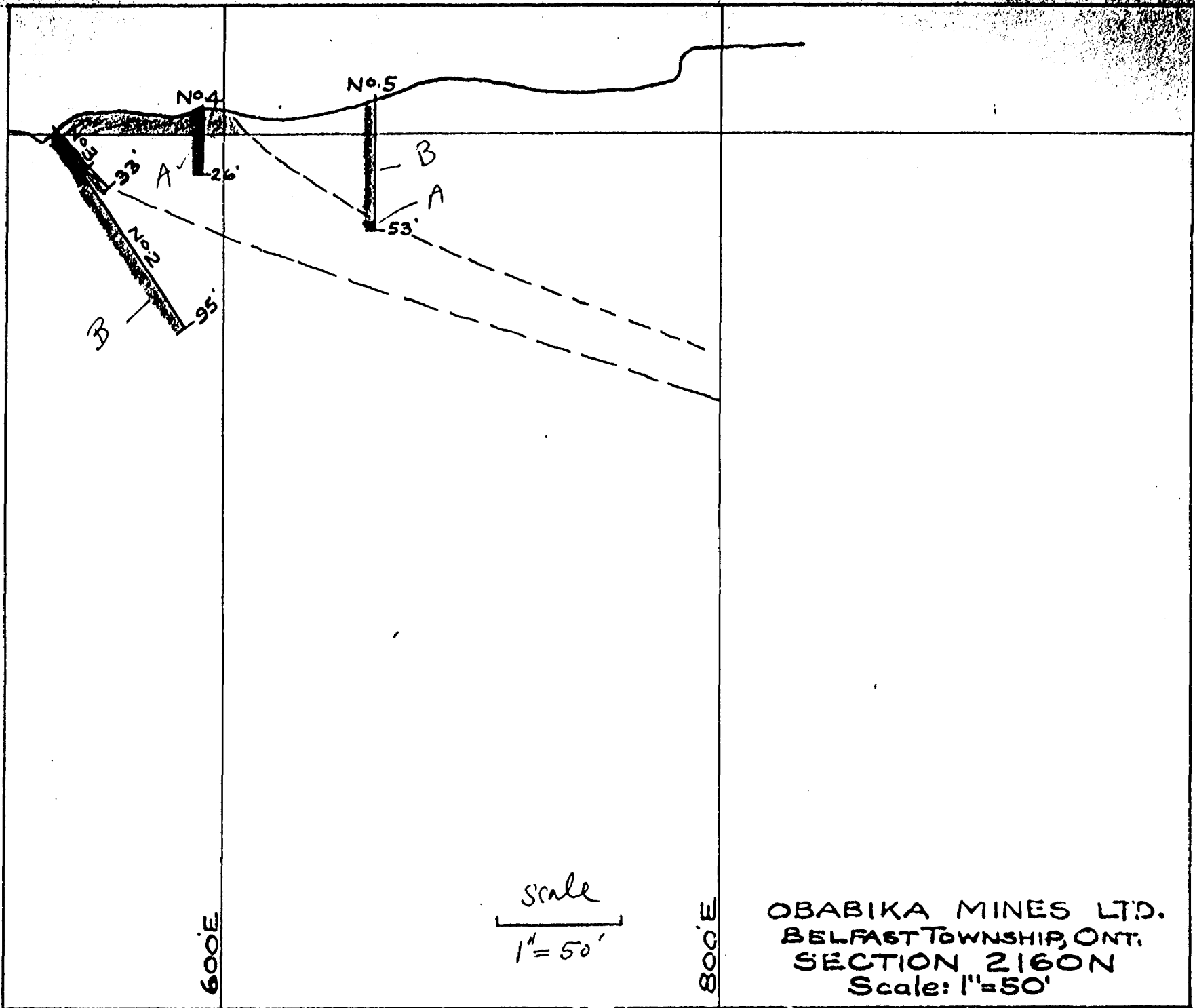
No. 1

73'

C

scale
1" = 50'

OBABIKA MINES LTD.
BELFAST TOWNSHIP, ONT.
SECTION 3650N
Scale: 1" = 50'

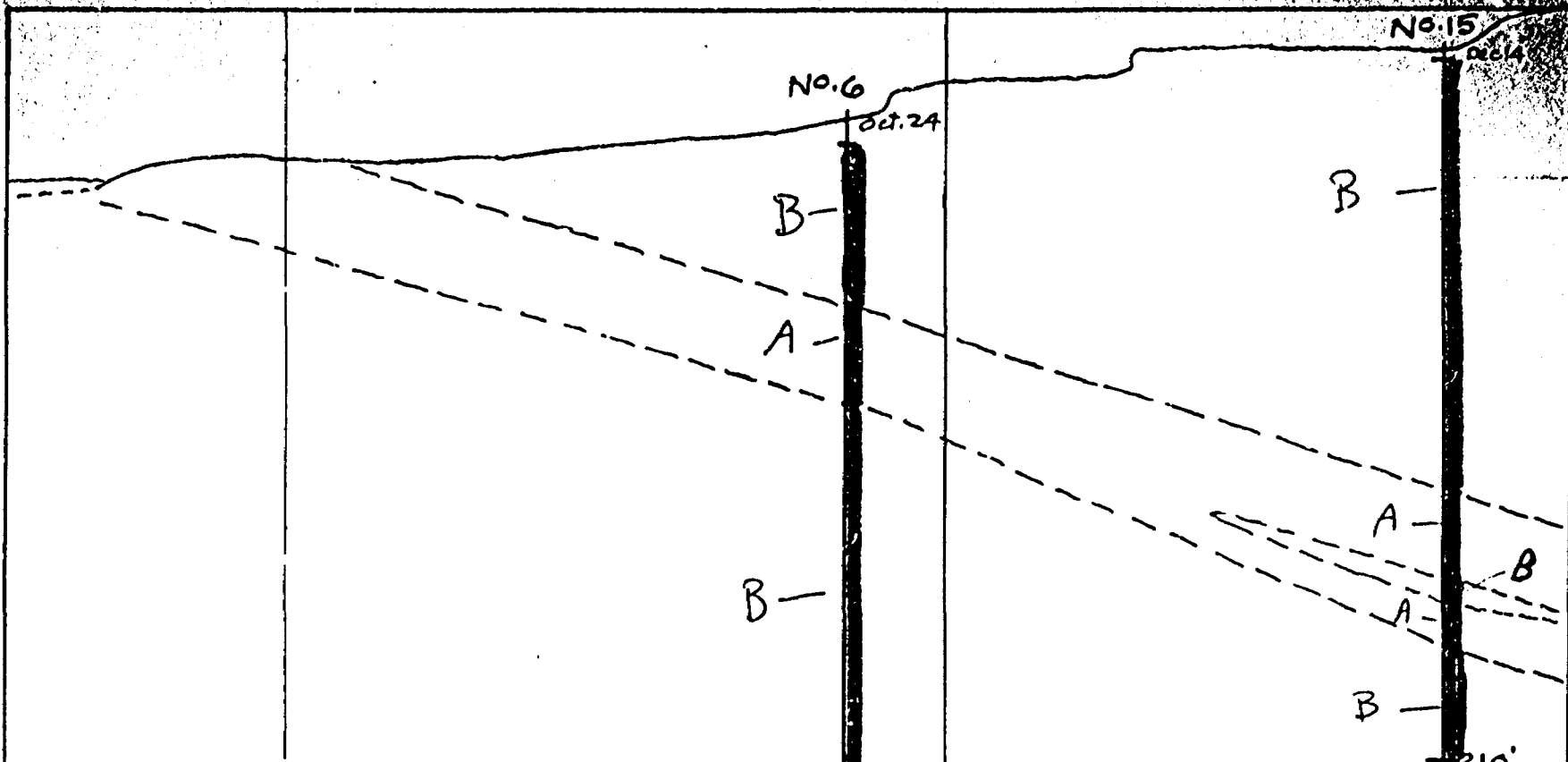


600'E





800'E

Scale
1" = 50'

OBABIKA MINES LTD.
BELFAST TOWNSHIP, ONT.
SECTION 2160N
Scale: 1" = 50'



LEGEND

- A  vein material, mostly quartz
KEWEENAWAN
- B  Nipissing quartz diabase
HURONIAN
- C  Cobalt Series, greywacke,
arkose, conglomerate
-  shearing & fracturing

600 E

Scale
1" = 50'

800 W

OBABIKA MINES LTD.
BELFAST TOWNSHIP, ONT.
SECTION 2000N
Scale: 1" = 50'