



Township of STETHAM

Report No: 13

Work performed by: Jonsmith Mines Limited

Claim No	Hole No	Footage	Date	Note
MR 47762	1 ✓	501'	Feb/68	
	10 ✓	372'	Apr/68	
	12 ✓	583'	May/68	
	13 ✓	389'	May/68	
MR 47763	2 ✓	533'	Mar/68	(1)
	8 ✓	345'	Apr/68	(1)
	9 ✓	240'6	Apr/68	(1)
MR 47764	3B ✓	47'	Mar/68	(2)
	3C ✓	532'	Mar/68	(2)
	7 ✓	382'	Apr/68	(2)
MR 47765	4 ✓	400'	Mar/68	(3)
	5 ✓	78'	Apr/68	(3)
	6 ✓	600'	Apr/68	(3)
MR 47775	11 ✓	300'	May/68	

5302'6

Notes: (1) #135/70
 (2) #137/70
 (3) #136/70

DIAMOND DRILL RECORD

Hole No. 1 Sheet No. 1
 Property Jonsmith-Stetham Twp.
 Drilled by Continental D. Drill
 Date Begun Feb. 28, 1968
 Date Finished Mar. 4, 1968
 Contractor's Footage

Co-ordinates Collar
 Lat. 4067N Dep. 3900 W
 Elev. Collar Lake level
 Bearing N. 75° E.
 Angle -35°
 Working Place Claim MR. 47762

Total Depth 501.0'
 Ft. of Core Recovered

% Recovery

Size Bit Used

Size Core EXT. %

Depth Feet	Formation	Sample No.	Width	Ag	Co	Rad.	U ₃ O ₈
0.0' / 11.0'	CASING						
11.0' / 25.0'	PEGMATITE. Coarse grained quartz bearing pegmatite. Minimum of red orthoclase feldspar. Amphibole minerals 5% - 10%. Radioactivity slightly above background.						
25.0' / 54.5'	PEGMATITE - Reddish (hematite stain) medium grained, low quartz rock with carnotite or secondary uranium stain. 5%-10% amphibole and chlorite minerals. Radioactivity X1 to X2 background.						
	38.9 - 39.6 (red pag.)	3901	0.7'				.003
	39.6 - 40.0 - (.15 2nd scale small folds, crystals in red orthoclase. Best.	3902	0.4'				.06
	40.0-40.5 - quartz vein material in red pegmatite X2 radioactivity.	3903	0.5'				.02
54.5' / 59.0'	PEGMATITE - Red. - gray medium grained rock as above with increased radioactivity and yellow stain. Rock more fractured and semi-brocciated.						
	SAMPLE						
	54.0- 55.0' (coarse grained high chlorite x 1.5)	3905	1.0'				.009
	52.4 - 54.5 -(Brick red pegmatitic with yellow stain. Low count rad.-slightly above background.	3904	1.1'				.003

DIAMOND DRILL RECORD

Hole No. 1. Sheet No. 2.
 Property Jonsmith-Stetham Twp.
 Drilled by
 Date Begun
 Date Finished
 Contractor's Footage

Co-ordinates Collar
 Lat. Dep.
 Elev. Collar
 Bearing
 Angle
 Working Place

Total Depth 501.0'
 Ft. of Core Recovered
 % Recovery
 Size Bit Used
 Size Core

Depth Feet	Formation	Sample No.	Width	Ag	Co	
54.0' / 59.0'	PEGMATITE -RED Continued Sample					U308
	55.0' - 55.7' (high chlorite, core broken & fractured) x 1.5 background.	3906	0.7'			1007
	55.7 - 57.0' (rad. pegmatite core fractured with a few veinlets of quartz Rad. x 1,2	3907	1.3'			1006
	57.0 - 59.0' (coarse grained and fractured with yellow stain	3908	2.0'			1004
59.0' / 78.0'	PEGMATITE. Medium to coarse grained, red-grey pegmatite. Considerable orange to yellow stain.					
	SAMPLE: 73.7 - 74.2'	3909	1.5'			1002
78.0' / 82.5'	TRAP DYKE: dark, dense grained, diabase type. First contact at 90°, second contact at 45°.					
	Feldspar inclusions and light shearing at second contact.					
82.5' / 85.4'	PEGMATITE- medium grained pink rock, low radioactivity.					
85.4' / 86.1'	TRAP DYKE - same as above with feldspar inclusions and ragged contacts. Diabase.					
86.1' / 139.0	PEGMATITE: - Medium to coarse grained rock with low amphibole mineral contact and low radioactivity. Yellow					

Log By.....
 for E. L. MacVEIGH

DIAMOND DRILL RECORD

Hole No. 1 Sheet No. 3
 Property Jonsmith-Stotham Twp.
 Drilled by
 Date Begun
 Date Finished
 Contractor's Footage

Co-ordinates Collar
 Lat. Dep.
 Elev. Collar
 Bearing
 Angle
 Working Place

Total Depth 501.0'
 Ft. of Core Recovered
 % Recovery
 Size Bit Used
 Size Core

Depth Feet	Formation	Sample No.	Width	Ag	Co	Rad.	U ₃ O ₈
86.1' / 139.0'	PEGMATITE - Continued stain may indicate secondary uranium minerals. Low radio-activity.						
	85.0 - 86.0' mafic inclusion. Contacts show granitization.						
	80.0 - 139.0' chiefly red feldspar.						
139.0' / 145.0'	PEGMATITE with 50% mafic rock inclusion. This rock is more radioactive than the pegmatite X 1 to X1.5.						
145.0' / 181.0'	PEGMATITE (Granite) Medium grained, pink rock, 10% - 15% quartz						
181.0' / 268.0'	PEGMATITE. Red-gray type with spots of radioactivity, near mafic inclusions						
	181.2 - 181.9 - radioactive in dark mineralization - may contain some pitchblende	3910	.7'				.04
	At 181.4, 1/2" dark chlorite at 45° to core shows some radioactivity.						
	This is highest radioactivity in the hole. X10 - X15.						
	Lost core - 168' - 171'						
	179 - 180'						
	This section chiefly red feldspar all slightly above background.						
	Take 5' sample sections if any.						

DIAMOND DRILL RECORD

Hole No. <u>1</u> Sheet No. <u>4</u>	Co-ordinates Collar	Total Depth <u>501.0'</u>
Property <u>Jonsmith-Stethan Twp.</u>	Lat. Dep.	Ft. of Core Recovered
Drilled by	Elev. Collar	% Recovery
Date Begun	Bearing	Size Bit Used
Date Finished	Angle	Size Core
Contractor's Footage	Working Place	

Depth Feet	Formation	Sample No.	Width	Ag	Co	
268.0' /	<u>PEGMATITE</u> Mostly feldspar					113 ⁰⁸
284.4' /	as above with 30% mafic incl. Slightly radioactive. Best 268.9' - 271.8'.					
284.48' /	<u>PEGMATITE</u> Medium grained					
308.6' /	pink gray chiefly feldspar.					
308.6' /	<u>PEGMATITE</u> as above with mafic					
401.0	inclusions. Slight radioactivity seems to be concentrated near inclusions % 1.5					
	309 -334 - 50% mafic					
	334 -357 - 35% mafic					
	357 -382 - 50% mafic					
	382 -407 - 20% mafic					
	Lost core - 400-401'.					
401.0' /	<u>PEGMATITE</u> , red, medium					
435.0' /	grained, mostly feldspar with slight radioactivity. Porphyritic.					
435.0' /	<u>PEGMATITE</u> as above,					
466.0' /	with some amphibole. 437.4 - 439.0' flow breccia shows 0° with core. This core fractured and broken. Slight radioactivity to X1.5 chiefly near slips. This is a fractured and semi-sheared zone. Some dark hematite stain.					
466.0' /	<u>MAFIC INCLUSION</u> of					
481.0' /	Keewatin volcanic agglomerate. Core granitized and broken near contact. Likely roof pendant.					

DIAMOND DRILL RECORD

Hole No. 10 Sheet No. 1
 Property Jonsmith-Stotham
 Drilled by Continental
 Date Begun April 29, 1968
 Date Finished May 1st, 1968
 Contractor's Footage

Co-ordinates Collar
 Lat. 4059N Dep. 3949E
 Elev. Collar Lake + 10'
 Bearing N. 75° E.
 Angle -60
 Working Place Claim MR. 477662

Total Depth 372.0'
 Ft. of Core Recovered

% Recovery

Size Bit Used

Size Core AXT.

Depth Feet	Formation	Sample No.	Width	Ag	Co		
0.0' / 3.0'	<u>CASING:</u>						
3.0' / 3.5'	<u>PEGMATITE</u>						
3.5' / 4.5'	<u>PEGMATITE</u> brecciated with 20% mafic material, quartz filling and carnotite stain. Sample - see crystals.						
4.5' / 54.4'	<u>PEGMATITE</u> , brick red medium grained rock with 30% quartz. Shows no yellow radioactive crystals as above. Few scattered amphibole sections.						
54.4' / 59.0'	<u>BASIC DIKE</u> , dense grained dark rock at 60° to core.						
59.0' / 105.0'	<u>GRANITE</u> ; pink, medium grained mostly feldspar with irregular quartz areas						
105.0' / 126.0'	<u>GRANITE</u> as above with slight radioactivity. Mafic inclusion 124.5 to 126.0'						
126.0' / 150.0'	<u>GRANITE</u> with mafic inclusions mostly chlorite schists. Higher radioactivity with mafic sections.						
150.0' / 225.0'	<u>PEGMATITE</u> coarse grained feldspar rock with up to 30% hornblende and mafic material						
	218' - 221' lost core						
	223' - 224' lost core						
	224' - 225' lost core						
225.0' / 231.0'	<u>GRANITIZED CONTACT</u> with few spots and streaks of hematite						

DIAMOND DRILL RECORD

Hole No. 10 Sheet No. 2
 Property Jonsmith-Stetham
 Drilled by
 Date Begun
 Date Finished
 Contractor's Footage

Co-ordinates Collar
 Lat. Dep.
 Elev. Collar
 Bearing
 Angle
 Working Place

Total Depth
 Ft. of Core Recovered
 % Recovery
 Size Bit Used
 Size Core

Depth Feet	Formation	Sample No.	Width	Ag	Co	
225.0' / 231.0'	GRANITIZED CONTACT (Continued) 231.6 - 232.6' lost core 235.6 - 237.6' lost core.					
231.0' / 250.0'	MAFIC ROCKS - soft talcose rocks with chlorite slips and few spots of hematite. Keewatin type - altered.	Non-radioactive				
250.0' / 270.0'	MAFIC ROCKS - as above with reddish hematite sections in dark alteration. To be sampled. 267.5' - 270.0' - pegmatite Hornblende alteration	Radioactive	X 1.5 to X 2.5			
270.0' / 319.0'	MAFIC ROCKS as above but less hematite except on vein slips. Typical Hornblende alteration @ 303.0' - short radioactive sections to X 2.5	Radioactive on slips only	X 1.5			
319.0' / 352.0'	MAFIC ROCKS as above with more hematite and higher radioactivity. (Marked for sampling) Dark alteration - hornblende or pyroxene.	Dark alteration Radioactive	X 3 to X 8			
352.0' / 372.0'	MAFIC ROCKS. green rock with hornblende. Radioactivity ends with dark alteration -chlorite (?)	Non-radioactive.				
	HOLE END - 372.0'					
	Dip Test - 200' -60°					

Log By... *E. L. MacVeigh*
 for E. L. MacVEIGH

DIAMOND DRILL RECORD

Hole No. 12 Sheet No. 1

Property Jonsmith-Stetham

Drilled by Continental D. Drill.

Date Begun May 20, 1968

Date Finished May 25, 1968

Contractor's Footage

Co-ordinates Collar

Lat. 4957N. Dep. 3775E.

Elev. Collar Lake Level

Bearing N. 75° E.

Angle -45°

Working Place Claim MR. 47762

Total Depth 583.0'

Ft. of Core Recovered

% Recovery

Size Bit Used

Size Core EXT.

Depth Feet	Formation	Sample No.	Width	Ag	Co
0.0' / 10.0'	CASING:				
10.0' / 51.0'	DIABASE: Fresh, hard, medium grained dike rock. Keweenawan type. Slips @ 45°.				
51.0' / 64.6'	DIABASE: Fine grained contact phase. Contact at 64.6' shows sharp at 70° to core. This is contact between diabase and amphibolite (probably Keewatin).				
64.6' / 101.0'	AMPHIBOLITE (hornblendite) Probably altered Keewatin volcanics. May be contact or regional metamorphism. .				
	75.0' - 75.5' pegmatitic vein				
	87.0' - 90.0' pegmatite	Radioactive X1.5			
101.0' / 131.4'	PEGMATITE: Probably flat dipping. Contact at 20° to core				
	50% feldspar - 50% quartz.	Radioactive X1.5			
	118' - 120' - dark red syenite porphyry differentiate				
131.4' / 196.0'	AMPHIBOLITE: as above. Probably altered Keewatin volcanics. Irregular quartz-calcite veining and streaks of hematite and epidote.				
	@ 153.5' - 1" pegmatite				
	@ 173.0' - 175.0' brecciated pegmatite dike.				
	@ 186.5' - 196.0' brecciated pegmatite dike	Radioactive X 1.5			
	Contact @ 70° to core.				

DIAMOND DRILL RECORD

Hole No. 12 Sheet No. 2
 Property Jonsmith-Stetham
 Drilled by
 Date Begun
 Date Finished
 Contractor's Footage

Co-ordinates Collar
 Lat. Dep.
 Elev. Collar
 Bearing
 Angle
 Working Place Claim MR. 47762

Total Depth 583.0'
 Ft. of Core Recovered
 % Recovery
 Size Bit Used
 Size Core

Depth Feet	Formation	Sample No.	Width	Ag	Co	
196.0' / 202.5'	<u>AMPHIBOLITE</u> as above					
		Radioactive	X 1.5			
202.5' / 212.0'	<u>PEGMATITE</u> : 50% quartz and 50% feldspar fractured dike.					
	Contacts @ 60° to core.	Non-radioactive.				
212.0' / 215.5'	<u>AMPHIBOLITE</u> as above					
215.5' / 220.0'	<u>PEGMATITE</u> -granitic texture, Chlorite slips @ 45° to core.					
		Non-radioactive.				
220.0' / 245.5'	<u>AMPHIBOLITE</u> as above					
245.5' / 246.5'	<u>PEGMATITE</u> (syenite) Large feldspars in dark matrix. Brecciated. Hematite stringers					
		Radioactive	X 1.5			
246.5' / 251.5'	<u>AMPHIBOLITE</u> as above 251.0' - 252.0' hematite in altered (veined) amphibolite					
		Radioactive	X 1.5			
251.5' / 283.8'	<u>AMPHIBOLITE</u> as above					
		Non-radioactive.				
283.8' / 298.5'	<u>PEGMATITE</u> (granite) Medium grained					
		Non-radioactive.				
298.5' / 341.3'	<u>AMPHIBOLITE</u> as above Few feldspar veins at 90° to core and 30° to core.					
		Non-radioactive				
341.3' / 404.0'	<u>PEGMATITE</u> - 40% quartz. Streaks of epidote and chlorite at 45° to core. Few short brecciated sections. Probably flat dipping dike					
		Radioactive	X 1.5			

DIAMOND DRILL RECORD

Hole No. 13 Sheet No. 1
 Property Jonsmith-Stetham Twp.
 Drilled by Continental D. Dr.
 Date Begun May 26, 1968
 Date Finished May 31, 1968
 Contractor's Footage

Co-ordinates Collar
 Lat. 49° 57' N. Dep. 3780 E.
 Elev. Collar Lake Level
 Bearing S. 75° W.
 Angle -45°
 Working Place Claim MR, 47762

Total Depth 389.0'
 Ft. of Core Recovered

% Recovery

Size Bit Used

Size Core AXT

Depth Feet	Formation	Sample No.	Width	Ag	Co
0.0	CASING:				
24.0'					
24.0' / 115.0'	MAFIC ROCKS: (Amphibolite) Medium to coarse grained rock with alteration to amphibolite. 26.5' - 29.0' - quartz vein material. @ 56' & 55' - narrow cherty inclusions or trap dikes. 70' - 71' - granite dike 50' - 75' - 6 narrow trap dikes (chert) @ 90° to core. @ 87.0' few red streaks. Non-radioactive. @ 84.0' quartz-breccia vein. 105-115' - sparse sulphides and quartz.				
			Non-radioactive.		
115.0' / 205.5'	PEGMATITE: Coarse grained pink rock 40% quartz. Few mafic inclusions. 115-117' lost core @ contact. 125-143' - 50% mafic 143-145' - Lost core 168-172' - mafic inclusion, slight radioactivity. 179-180' - Lost core.				
			Slight radioactivity	X1.5	
205.5' / 248.8'	DIABASE DIKE; chilled contact with pegmatite at 70° to core. Hard, fresh, medium to fine grained rock. No quartz veins - no alteration				
			Non-radioactive.		
248.8' / 333.0	PEGMATITE as above Scattered dark crystals - Magnetite (?)				
			Slight radioactive	X1.5	

DIAMOND DRILL RECORD

Hole No. 2 Sheet No. 1
 Property Jonsmith-Stetham Twp.
 Drilled by Continental D. Drill
 Date Begun March 6, 1968
 Date Finished March 12, 1968
 Contractor's Footage

Co-ordinates Collar
 Lat. 4181' N. Dep. 3560 W.
 Elev. Collar Lake level
 Bearing Due East
 Angle -35°
 Working Place Claim MR. 47763

Total Depth 533.0'
 Ft. of Core Recovered

% Recovery

Size Bit Used

Size Core EXT. % CIEM.

Depth Feet	Formation	Sample No.	Width	Ag	Co	Rad.	U ₃₀₈
0.0' / 12.0'	CASING:						
12.0' / 87.3'	GRANITE, coarse grained pink rock, 30% - 40% quartz. Few dark amphibole streaks and spots. Not radioactive.						
87.3' / 113.0'	GRANITE with pegmatite sections (coarse grained feldspar).						
	88.2 - 89.2 - X3 Pegmatite with chlorite spots	3911	1.0'			.01	
	98.2 - 99.2 - X7 Pegmatite with 1" mafic	3912	1.0'			.06	
113.0' / 138.6'	PEGMATITE: coarse grained pink and white sections 114-114.8 white feldspathic section						
138.6' / 156.8'	MAFIC ROCKS & GRANITE Probably granitized contact. Spots of radioactivity.						
156.8' / 221.3'	DIABASE - chilled edge to 165.0'. Medium grained dark green rock with diabasic texture. Few fine grained sections -green to black.						
221.3' / 244.5'	MAFIC ROCK - dark green, fine grained rock - possibly Keewatin Diabasic texture from 233' to 244.5'						
244.5' / 276.5'	GRANITE: Coarse grained pink rock 30% to 40% quartz. Reddish sections show radioactivity to X 3 for 6" lengths						

DIAMOND DRILL RECORD

Hole No. 2 Sheet No. 2
 Property Jonsmith-Stetham Twp.
 Drilled by
 Date Begun
 Date Finished
 Contractor's Footage

Co-ordinates Collar
 Lat. Dep.
 Elev. Collar
 Bearing
 Angle
 Working Place Claim MR. 47763.....

Total Depth533.0'.....
 Ft. of Core Recovered
 % Recovery
 Size Bit Used
 Size Core
 % CIEM.

Depth Feet	Formation	Sample No.	Width	Ag	Co	Rad.	U ₃₀₈
276.5' / 281.5'	<u>CONTACT</u> broken core with some vein material - granitized.						
281.5' / 300.6'	<u>MAFIC ROCK</u> - greenstone type (andesite) fine grained green.						
300.6' / 329.0'	<u>GRANITE</u> : contact irregular with above rock. Granite coarse grained and pegmatitic. 311' to 322.6' granitized contact						
329.0' / 333.2'	<u>MAFIC ROCKS</u> . Contact at 20° to core. Medium to fine grained green rock sheared at 30° to core.						
333.2' / 339.3'	<u>GRANITE</u> as above with 18" amphibole minerals						
339.3' / 495.0'	<u>MAFIC ROCKS</u> . Contact missing. Diabasic Texture. Most slips at 45° to core. Resembles intrusive diabase but not typical Keweenaw. 428' - 449' fine grained section with feldspathic areas. (granitized ?)						
495.0' / 503.3'	<u>GRANITE</u> , core broken at contact. Dark medium grained rock with inclusions (?)						
503.3' / 533.0'	<u>MAFIC ROCK</u> . Dark dense grained fragmental rock with filling of quartz-carbonate vein material.						

DIAMOND DRILL RECORD

Hole No. 8 Sheet No. 1
 Property Jonsmith-Stetham
 Drilled by Continental D. Dr.
 Date Begun April 22, 1968
 Date Finished Apr. 25, 1968
 Contractor's Footage

Co-ordinates Collar
 Lat. 3967 N. Dep. 3971 E.
 Elev. Collar ..
 Bearing N. 75° W.
 Angle -56°
 Working Place Claim MR. 47763

Total Depth 345.0'
 Ft. of Core Recovered ..
 % Recovery ..
 Size Bit Used ..
 Size Core AXT

Depth Feet	Formation	Sample No.	Width	Ag	Co		
0.0' / 4.0'	<u>CASING:</u>						
4.0' / 34.0'	<u>PEGMATITE: medium to coarse grained red to pink rock, low quartz-high feldspar with prominent amphibole.</u>						
		Radioactive to X 1.5					
34.0' / 37.5'	<u>DIABASE DIKE: dark fine grained rock, probably narrow dike in surface trench.</u>						
	35.0 - 37.5' lost core						
	39.0 - 40.0' lost core.						
37.5' / 75.0'	<u>PEGMATITE as above</u>						
75.0' / 132.0'	<u>PEGMATITE with 30% mafic inclusions and fractured feldspars</u>						
	Radioactivity comes with mafic sections in pegmatite, probably inclusions.	Radioactive to X 1.5					
	105' - 109' - mafic rock.	Contact @ 105' radioactive X2.					
	111' - 115' - mafic rock						
	144' - 147' - core lost.						
152.0' / 180.0'	<u>PEGMATITE with mafic inclusions 2' - 3' long.</u>						
	152' - 153' - mafic X2 rad.	Radioactive X 1.5					
180.0' / 208.0'	<u>MAFIC ROCKS highly altered dark green rock - 50% amphibole or pyroxene typical of radioactive host rock.</u>						
	Slight radioactivity at contact with above @ 180.0' - X 1.5						

DIAMOND DRILL RECORD

Hole No. 8 Sheet No. 2
 Property Jonsmith-Stetham Twp.
 Drilled by
 Date Begun
 Date Finished
 Contractor's Footage

Co-ordinates Collar
 Lat. Dep.
 Elev. Collar
 Bearing
 Angle
 Working Place Claim MR. 47763

Total Depth 345.0'
 Ft. of Core Recovered
 % Recovery
 Size Bit Used
 Size Core

Depth Feet	Formation	Sample No.	Width	Ag	Co	
208.0' / 232.0'	<u>MAFIC ROCKS</u> , darker rock type feldspathic with hematite stain. 208.0-232.0' radioactive X2 - X3 background. 232.0' - 234' - Radioactive X3 - X4 - contacts @ 30° to core.					Radioactive X2 - X4
232.0' / 234.0'	<u>MAFIC ROCKS</u> medium grained dark red rock, with high radio- activity, has contacts with other mafics.					
234.0' / 248.0'	<u>MAFIC ROCK</u> altered as above with streaks of red hematite- Radioactive X3 - X4					Radioactive X3 to X4.
248.0' / 265.4'	<u>PEGMATITE</u> Medium to coarse grained light to dark rock with fractured feldspars					Slight radioactivity
265.4' / 314.0'	<u>MAFIC ROCKS</u> altered as above and similar to radioactive host rock. @ 272' - 4" of red hematite stain. Radioactive to X4 Rest of core non-radioactive.					Radioactive X4
314.0' / 345.0'	<u>MAFIC ROCKS</u> Some alteration but diminished. Few quartz veinlets at long angles or parallel to core, containing red mineral but non- radioactive. HOLE END - 345.0' Dip test 200' -55°.					Non-radioactive

Log By. *E. L. MacVeigh*
 for E. L. MacVEIGH

DIAMOND DRILL RECORD

Hole No. <u>9</u>	Sheet No. <u>1</u>	Co-ordinates Collar	Total Depth <u>240.6'</u>
Property <u>JONSMITH-Stetham.Twp.</u>	Lat. <u>39.71 N.</u> Dep. <u>39.71 E.</u>	Elev. Collar <u>Lake plus 16.0'</u>	Ft. of Core Recovered
Drilled by <u>Continental</u>	Bearing <u>90°</u>	Angle <u>90°</u>	% Recovery
Date Begun <u>April 26, 1968</u>	Working Place <u>Claim MR.47763</u>		Size Bit Used
Date Finished <u>April 28, 1968</u>			Size Core <u>AXT</u>
Contractor's Footage			

Depth Feet	Formation	Sample No.	Width	Ag	Co		
0.0' / 3.0'	CASING						
3.0' / 83.0'	PEGMATITE medium to coarse grained, brick red high feldspar rock with local quartz sections. First foot oxidized at surface shows carnotite stain and X1.5 - X2.5 Few small scattered hornblende crystals					Radioactive X 1.2 to X 1.4	
83.0' / 101.0'	PEGMATITE with mafic inclusions, and flow breccia showing angular feldspars. Radioactivity appears with mafic inclusions. Mafics equal 25% of core. Flow breccia contact at 101.0'						
101.0' / 132.0'	PEGMATITE with scattered hornblende, streaks and crystals. @ 112.6' brown (oxidized ?) 1/2" crystal reads x 10 125.5' - 127.0' - Lost. Specimen @ 112.6'					Radioactive X 1.3 to X1.6 Radioactive crystal x 10)	
132.0' / 181.5'	MAFIC ROCKS. Contact with above pegmatite, granitized and indefinite. 132.2' - 133.2' Lost core Mafic rocks show typical contact hornblende alteration. Few syenite and granite dikes @ 60° to 70° to core. Few small spots of hematite. 156.2' - 157.5' lost.					Non-radioactive	

DIAMOND DRILL RECORD

Hole No. 3C Sheet No. 1
 Property JONSMITH-Statham Twp.
 Drilled by Continental D. Drill
 Date Begun Mar. 14, 1968
 Date Finished Mar. 21, 1968
 Contractor's Footage

Co-ordinates Collar
 Lat. 40° 8' 5" N Dep. 4300. E
 Elev. Collar Lake Level
 Bearing S. 75° W
 Angle -45°
 Working Place Claim MR. 47764

Total Depth 532.0'
 Ft. of Core Recovered

% Recovery

Size Bit Used

Size Core AXT %
 Chem

Depth Feet	Formation	Sample No.	Width	Ag	Co	U ₃ O ₈	Rad.
0.0' / 9.0'	CASING:						
9.0' / 16.0'	GRANITE						
16.0' / 32.0'	GREENSTONE, dark fine grained mafic rock. Contact with granite at 90° to core. 1/2" brecciated vein material in contact.						
	Mud Gouge and granitic material at 31' (fault)						
	17' - 19' - gray granitic material.						
	@ 32' qu. vein and slip at 20°.						
32.0' / 42.5'	32' - 42.5' - pink granitic material. Contact at 0° -10° to core, may indicate flat dip for pegmatite.						
42.5' / 65.0'	GREENSTONE -granitized and broken core. Skips mostly @ -45°. Contacts with granite obscure.						
65.0' / 112.0'	GRANITE AND PEGMATITE Granite - fine grained and gray. Pegmatite coarse feldspar. Most slips chloritized 99.5-101.5' mafic inclusion.						
112.0' / 122.0'	PEGMATITE. Coarse grained pink rock shows slight radioactivity.						
122.0' / 159.0'	PEGMATITE with mafic sections. Coarse grained pegmatite with dark sections. Porphyritic section of red feldspar in						

DIAMOND DRILL RECORD

Hole No. 3C Sheet No. 2
 Property Jonsmith-Stetham Twp.
 Drilled by
 Date Begun
 Date Finished
 Contractor's Footage

Co-ordinates Collar
 Lat. Dep.
 Elev. Collar
 Bearing
 Angle
 Working Place Claim MR. 47764

Total Depth 532.0'
 Ft. of Core Recovered
 % Recovery
 Size Bit Used
 Size Core 4XT Chem. %

Depth Feet	Formation	Sample No.	Width	Ag	Co	U ₃ O ₈	Rad.
122.0'	PEGMATITE -(Continued)						
159.0'	dark matrix @ 155'. Slightly radioactive.						
159.0'	FAULT ZONE. Chiefly mafic rocks.						
169.5'	Core badly broken and chloritized. Slightly radioactive to X1.5						
169.5'	PEGMATITE, red, medium grained rock. Slightly radioactive.						
218.0'	X 1.5 (169' - 180'). 201 - 203' mafix inclusions. Contacts sharp at 90° and 70° to core.						
218.0'	PEGMATITE with 35% amphibole minerals.						
237.8'	206' - 230' slightly radioactive 230' - 237.8 x 2.5.						
237.8'	MAFIC ROCK - RADIOACTIVE	Sample:					
257.7'	Probably altered Keewatin greenstone. Soft, carbonatized, quartz-carbonate emplacement. Fine streaks of red mineral may be cinnabar (?), same as Hole #2 at 503' - 533'. Radioactivity X 2 - X 4.						
257.7'	MAFIC ROCKS as above	Sample:					
274.5'	with crystalline amphiboles and increase of red mineral. Radioactivity X 10 - X 18 background. Highest radioactivity with high red mineral content. Specimen for mineral analysis from 264'						

DIAMOND DRILL RECORD

Hole No. 3C Sheet No. 3
 Property Jonsmith-Stetham Twp.
 Drilled by
 Date Begun
 Date Finished
 Contractor's Footage

Co-ordinates Collar
 Lat. Dep.
 Elev. Collar
 Bearing
 Angle
 Working Place Claim MR. 47764

Total Depth 532.0'
 Ft. of Core Recovered
 % Recovery
 Size Bit Used
 Size Core AXT Chem. %

Depth Feet	Formation	Sample No.	Width	Ag	Co	U ₃ O ₈	Rad.
274.5' / 288.5'	FELDSPATHIC fractured and broken feldspars in dark matrix. Non-radioactive. Contact with mafic rocks @ 30° to core. Contact at 288.5' -45°.						
288.5' / 296.4'	MAFIC ROCKS altered and carbonatized as above with red mineral present. Radioactivity X 4 - X 7. Light shearing at 45° to core in best section.						
296.4' / 333.0'	MAFIC ROCKS non-radioactive and absence of red mineral and no shearing - 296-305' 305' - 309' - X2 - X 5 carbonatized with red mineral (radioactivity appears to be in shared or fragmental zone.)						
333.0' / 345.0'	MAFIC ROCK as above with radioactivity X 1.5 to X 5.0 associated with red mineral probably hematite.						
345.0' / 355.0'	PEGMATITE, fractured feldspar crystals in dark matrix as above. Non-radioactive.						
355.0' / 378.0'	MAFIC ROCK with veins of feldspar 2" to 5" wide. Contacts at various angles.						
378.0' / 427.5'	MAFIC ROCK, gray, medium grained rock, resembles Keewatin tuff. Few feldspar veins 1/2". 421' - 427' agglomerate.						

DIAMOND DRILL RECORD

Hole No. 3C Sheet No. 4 Co-ordinates Collar
 Property Jonsmith-Stetham Twp. Lat. Dep. Total Depth 532.0'
 Drilled by Elev. Collar Ft. of Core Recovered
 Date Begun Bearing % Recovery
 Date Finished Angle Size Bit Used
 Contractor's Footage Working Place Claim MR. 47764 Size Core AXT Chem. %

Depth Feet	Formation	Sample No.	Width	Ag	Co	U ₃ O ₈	Rad.
427.5' / 450.0'	MAFIC ROCKS with intrusions of red and white pegmatite.						
	Slight radioactive. Contacts very irregular, or at 30° to core.						
450.0' / 532.0'	MAFIC ROCKS as above. Pink feldspar veins 1" to 14" wide @ 30° and 90° to core.						
	@ 481' - epidotized vein @ 45° to core.						
	498' - 501' - red granite.						
	@ 532' dark, mafic Keewatin greenstone rocks.						
	HOLE END - 532.0'						
	CORRECTED DIP TESTS:						
	100' -50°						
	400' -43°						
	SAMPLES:						
	257.7 - 261.7'	3919	4.0'			101	
	261.7' - 263.8'	3920	2.1'			130	
	263.8' - 264.8'	3921	1.0'			123	
	264.8' - 267.8'	3922	3.0'			107	
	267.8' - 269.0'	3923	1.2'			105	
	269.0' - 274.5'	3924	5.5'			103	
			12.8				

Log By *E. L. MacVeigh*
 for E. L. MacVEIGH

DIAMOND DRILL RECORD

Hole No. 7 Sheet No. 1
 Property Jonsmith-Stetham Twp.
 Drilled by Continental D. Drill
 Date Begun Apr. 17, 1968
 Date Finished Apr. 21, 1968
 Contractor's Footage

Co-ordinates Collar
 Lat. 3822N Dep. 4390 E.
 Elev. Collar Lake to 13.4'
 Bearing S. 75° W.
 Angle -45°
 Working Place Claim MR. 47764

Total Depth 382.0'
 Ft. of Core Recovered

% Recovery

Size Bit Used

Size Core AXT

Depth Feet	Formation	Sample No.	Width	Ag	Co	
0.0'/ 6.0'	<u>CASING:</u>					
6.0'/ 79.0'	<u>MAFIC ROCKS</u> Medium grained dark green rock with diabasic texture. Probably old Keewatin diabase-pre-granite					
	© 47.5' - 1/2" vein with hematite stain © 60° to core - most slips © 60° and chloritized.					non-radioactive.
79.0'/ 82.0'	<u>GRANITIZED CONTACT</u> material.					
82.0'/ 88.0'	<u>FAULT ZONE:</u> Mafic and granitic (feldspar) material with broken core © 83.0' and 88.5'					non-radioactive.
88.0'/ 129.0'	<u>MAFIC ROCK</u> granitized material -dense grained mafic rocks showing brecciation.					non-radioactive
129.0'/ 133.0'	<u>PEGMATITE:</u> red feldspar dike or vein. Contacts indistinct.					
133.0'/ 152.0'	<u>BRECCIA & FAULT ZONE</u> Red feldspar and dark mafic sections with lengths of breccia composed of angular feldspar fragments in green matrix. Flow breccia or fault breccia.					
	Lost Core - 142.4'- 143.4' 146.5'- 147.5'					

Log By.....
 for E. L. MacVEIGH

DIAMOND DRILL RECORD

Hole No. <u>7</u> Sheet No. <u>2</u>	Co-ordinates Collar	Total Depth <u>382.0'</u>
Property <u>Jonsmith-Stetham Twp.</u>	Lat. Dep.	Ft. of Core Recovered
Drilled by	Elev. Collar	% Recovery
Date Begun	Bearing	Size Bit Used
Date Finished	Angle	Size Core
Contractor's Footage	Working Place <u>Claim MR. 47764</u>	

Depth Feet	Formation	Sample No.	Width	Ag	Co		
133.0' / 152.0'	BRECCIA & FAULT ZONE Continued @ 152.0' sharp contact at 90° to core of fine brecciated and feldspathic material for 3".						
152.0' / 159.0'	MAFIC ROCKS: fine grained basic rock, dark green chloritized and altered, soft Keewatin greenstone type			slight radioactivity	X 1.25		
159.0' / 163.0'	PEGMATITE siliceous cherty vein or dike			non-radioactive.			
163.0' / 198.6'	MAFIC ROCKS granitized with feldspar growths and fragments. Probably flow breccia.						
198.6' / 212.5'	PEGMATITE, pink chiefly feldspar dike rock, @ 212.5' contact @ 90°.						
212.5' / 284.0'	MAFIC ROCKS altered amphibolite type similar to radioactive host rock with short lengths of pegmatite dike material. Contacts at 90° to core. Dikes slightly radioactive. 288' - 289' - hematite stain shows X 2 background			Dikes slight radioactivity			
284.0' / 382.0'	MAFIC ROCKS with gneissic structure @ 60° to core and short dike sections @ 60° to core.			Radioactive X 2.			
	HOLE END - 382.0'						
	Dip Test - @ 200' -44° @ 382' -44°						

Log By. *E. L. MacVeigh*
for E. L. MacVEIGH

DIAMOND DRILL RECORD

Hole No. 4 Sheet No. 1
 Property Jonsmith-Stetham Twp.
 Drilled by Continental
 Date Begun March 26, 1968
 Date Finished March 29, 1968
 Contractor's Footage

Co-ordinates Collar
 Lat. 3975' N. Dep. 4300' E.
 Elev. Collar Lake Level
 Bearing S. 75° W.
 Angle -45°
 Working Place Claim MR. 47765

Total Depth 400.0'
 Ft. of Core Recovered

% Recovery

Size Bit Used

Size Core EXT. Chem. %

Depth Feet	Formation	Sample No.	Width	Ag	Co	U ₃ O ₈	Rad.
0.0' / 40.0'	CASING						
40.0' / 47.0'	MAFIC ROCKS - medium to fine grained, greenstone. Andesite composition. Probably Keewatin volcanic. Few streaks of quartz vein material. No radioactivity.						
47.0' / 66.5'	FAULT ZONE - GRANITE & MAFIC ROCKS Core broken and some lost. Breccia and mud zones. Likely principal fault.						
66.5' / 99.5'	MAFIC ROCKS medium to coarse grained diabasic rock texture but like Keewatin. No contact with above. Non-radioactive. Short lengths of pegmatite dike material with contacts at 70° and 80° to core. Brecciated and broken core are probably faults. Non radioactive.						
99.5' / 140.0'	MAFIC ROCKS. End of coarse grained diabasic texture at 99.5'. Rock changes, to more typical Keewatin showing flow structure. Few streaks of quartz vein material and light shearing at 45° to core.						
140.0' / 166.0'	FAULT & BRECCIA ZONE Core badly broken showing mafic rock and pegmatite material. Few siliceous sections probably related to pegmatite.						

DIAMOND DRILL RECORD

Hole No. 4 Sheet No. 2
 Property Jonsmith-Stetham Twp.
 Drilled by Continental
 Date Begun

Co-ordinates Collar
 Lat. Dep.
 Elev. Collar

Total Depth 400.0'
 Ft. of Core Recovered

Date Finished

Bearing

% Recovery

Contractor's Footage

Working Place Claim MR.47765

Size Bit Used

Size Core Chem %

Depth Feet	Formation	Sample No.	Width	Ag	Co	U ₃ O ₈	Rad.
166.0' / 182.0'	<u>MAFIC ROCKS</u> Altered and brecciated showing some feldspar sections and radioactivity to X 2.5 background.						
182.0' / 192.0'	<u>GRANITE & PEGMATITE</u> Pink, medium grained rock with contact at 90° with mafic rocks. Slight radioactivity.						
192.0' / 202.0'	<u>MAFIC ROCKS</u> with some pegmatite. Radioactive to X 2.						
202.0' / 257.0'	<u>GRANITE</u> - medium grained - pink - gray rock. 2' of contact shows pink feldspar and radioactivity in chloritic spots. 222.8 - 226.8 - mafic incl. 230.0 - 231.0' - mafic incl. amphibolite alteration in mafic rocks and amphibole minerals in granite. Pegmatite in contact zone.						
257.0' / 288.0'	<u>MAFIC ROCKS</u> Contact irregular with pegmatite and granite. Low radioactivity. Dark medium to fine grained rock shows some flow structure and some feldspar replacement and granitization. Radioactive X 1.5 to X 2.5 273-274' - hematite stain X3 278-279 - hematite stain X3						
288.0' / 338.0'	<u>MAFIC ROCKS</u> - showing amphibolite alteration and						

DIAMOND DRILL RECORD

Hole No. 6 Sheet No. 1
 Property Jonsmith-Stetham Twp.
 Drilled by Continental D. Drill
 Date Begun Apr. 6, 1968
 Date Finished Apr. 17, 1968
 Contractor's Footage 600.0'

Co-ordinates Collar
 Lat. 4196 N. Dep. 4386 E.
 Elev. Collar Lake + 13.4'
 Bearing Due West
 Angle -45°
 Working Place Claim MR. 47765

Total Depth 600.0
 Ft. of Core Recovered
 % Recovery
 Size Bit Used
 Size Core AXT.

Depth Feet	Formation	Sample No.	Width	Ag	Co		
0.0' / 7.0'	<u>CASING:</u>						
7.0' / 18.6'	<u>GRANITE: fine grained schistose rock, schistose @ 45° to core.</u>						
18.6' / 90.0'	<u>MAFIC ROCKS: Contact at 20° to core. Fine grained dark rock with diabasic texture. Resembles diabase intrusive. May be Matachewan diabase dike. Chloritized slips at 45° to core. 111' - 117' - broken core.</u>						
90.0' / 129.0'	<u>MAFIC ROCKS: fine grained, dark with broken core sections. Epidotized. No contact with above observed. Slips at 45° to core.</u>						
129.0' / 140.0'	<u>GRANITE-PEGMATITE</u> <u>Coarse grained pink rock with large amphibole crystals. Contacts irregular. Low radioactivity X 1.5 - 129' to 154'.</u>						
140.0' / 157.5'	<u>MAFIC ROCKS: Fine grained, chloritized greenstone type.</u>						
157.5' / 241.5'	<u>PEGMATITE: Coarse grained, pink feldspar rock. No amphiboles. Contact with above @ 45° to core. 173'-178' admixture of mafic material. 179' - 186' Mafic rock chloritized greenstone type.</u>						

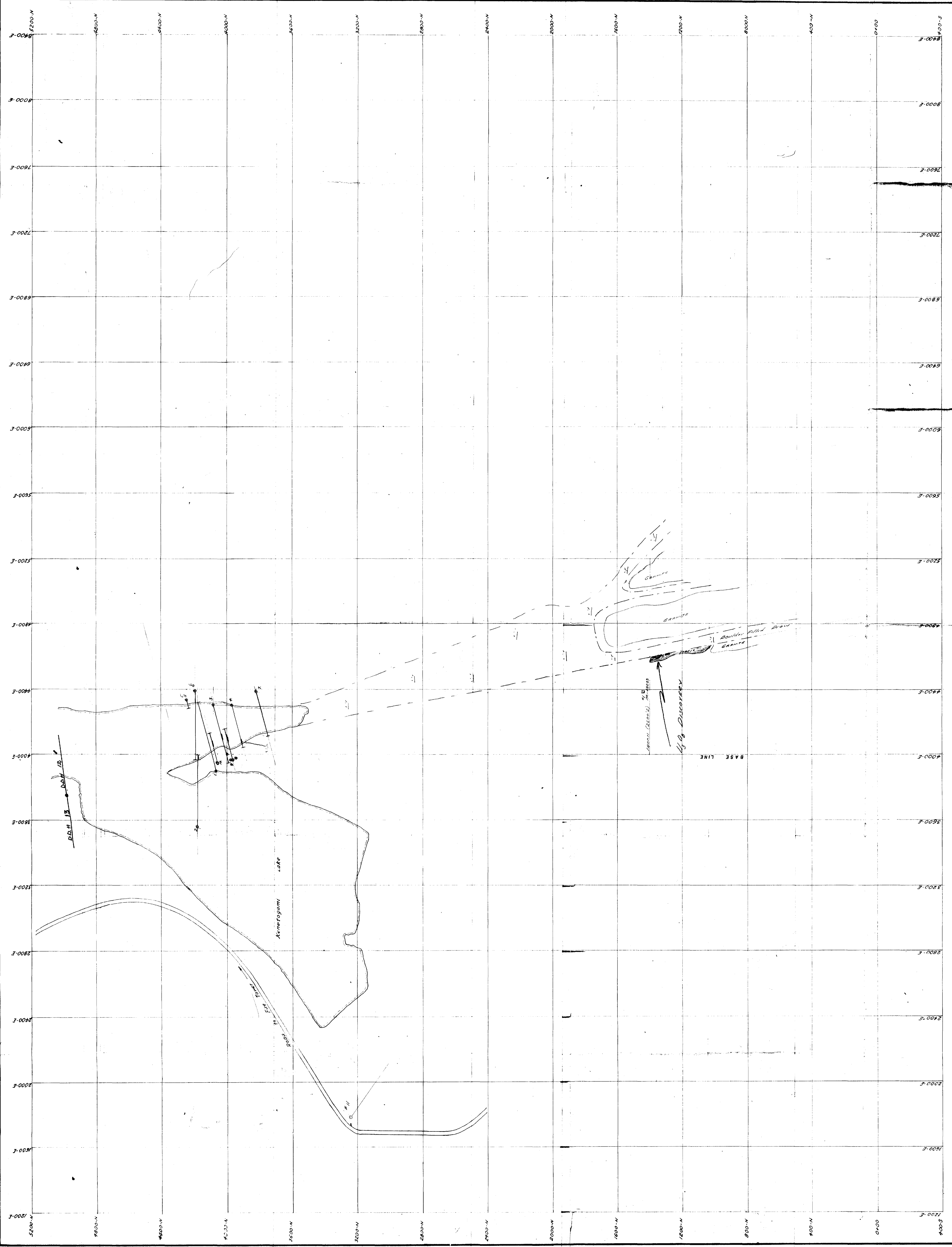
DIAMOND DRILL RECORD

Hole No. 6 Sheet No. 2
 Property Jonsmith-Stetham Twp.
 Drilled by
 Date Begun
 Date Finished
 Contractor's Footage

Co-ordinates Collar
 Lat. Dep.
 Elev. Collar
 Bearing
 Angle
 Working Place Claim MR. 47765

Total Depth 600.0'
 Ft. of Core Recovered
 % Recovery
 Size Bit Used
 Size Core

Depth Feet	Formation	Sample No.	Width	Ag	Co		
157.5' / 241.5'	PEGMATITE (Continued)						
	206' - 208.6' - lost core						
	218' - 219' - lost core						
	219' - 226.8' - mafic rock						
	chloritized greenstone type.						
	226.8' - pegmatite as above with						
	short schistose mafic sections.						
241.5' / 279.2'	PRECCIA ZONE: Angular feldspar						
	fragments up to 2" wide. In						
	mafic matrix.						
	Contact at 279.2' at 90° to core						
	between breccia and pegmatite						
	Hole cemented at 264'.						
279.2' / 329.0'	PEGMATITE - as above with						
	short sections of mafic rock						
	inclusions. Low radioactivity						
	to X 1.5.						
329.0' / 377.5'	MAFIC ROCKS: Soft dark green,						
	altered with pyroxene develop-						
	ment similar to radioactive						
	zones but no red hematite altera-						
	tion and no radioactivity.						
377.5' / 379.4'	GRANITE:						
	Contact @ 45°.						
379.4' / 410.6'	MAFIC ROCKS: pyroxene altera-						
	tion as above.						
410.6' / 441.0'	GRANITE: Contact with above						
	@ 20°. Medium grained pink						
	rock with some breccia sections						
	in short core sections with						
	mafic matrix.						
	Flow breccia near contact.						



JONSMITH MINES LIMITED.
 SURFACE PLAN
 OF PART OF SOUTH CLAIM GROUP
 1/8 of the *Geological* 984
 STETHAM TOWNSHIP - GOGAMA AREA.
 ONTARIO.
 Scale: 1 inch = 200 feet.

No. 1, Corner of Claim
 MR 47762 established as
 4000-E and 4000-N.

E.L. MacVeigh, B.A., M.S.,
 Geologist.

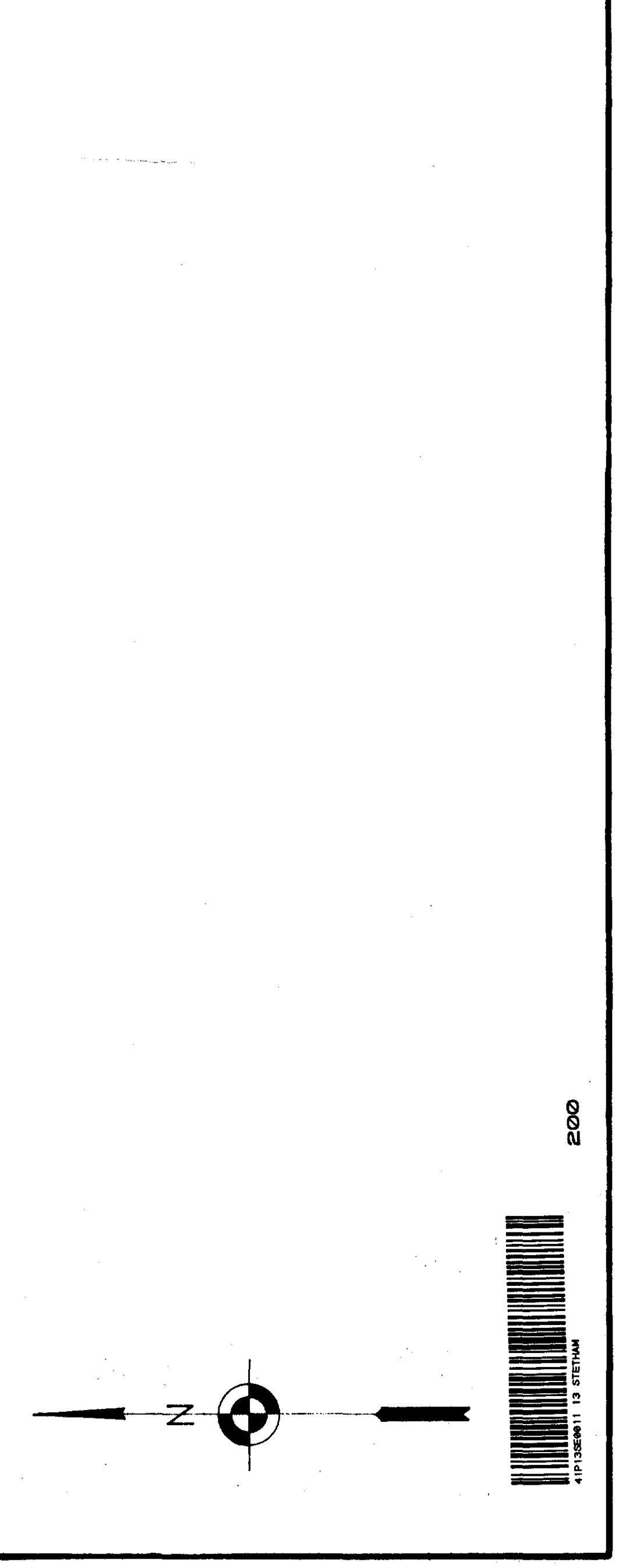
May 1, 1964

LEGEND

Dike/Dyke, Archaean Type
 Granite, Pegmatite, Syenite.
 Keweenaw, volcanic rocks, (Gneiss, Melanitic, Gneiss) and possibly other Mesozoic/Archaean rocks.

SYMBOLS

Bush Road
 Trail
 Lot Boundary
 Claim Boundary
 Base and Picket Lines
 Swamp
 Outcrop
 Creek
 Diamond Drill Hole
 Trench
 Building
 Fault
 Strike and Dip of Formation
 Claim Post
 Radio-active Pegmatite





20000 FT COPY (A)

JONSMITH MINES LIMITED.

MAGNETOMETER SURVEY
Over Hole Drilling

STETHAM TOWNSHIP - GOGAMA AREA.
 ONTARIO.

Scale: 1 inch = 100 feet.

E.L. MacVeigh, B.A. M.S.
 Geologist

No. 1 Corner of Claim
 MR. 47762 established as
 4000'E and 4000'W

March 18, 1968

LEGEND

Diabase Dykes, Rowenshaw Type.

Granite, Pegmatite, Syenite.

Keewatin volcanic rocks (andesite, dioritic, gabbroic, basaltic, andesite, basaltic andesite, and basaltic andesite).

SYMBOLS

Base and Picket Lines
 Claim Post as staked
 Diamond Drill Hole
 Main Control Station (Magnetometer)
 Magnetometer Reading
 Contour Line of equal magnetic intensity.

Lake
 River
 Road
 Claim Boundary
 Township Boundary
 Radioactive Pegmatite

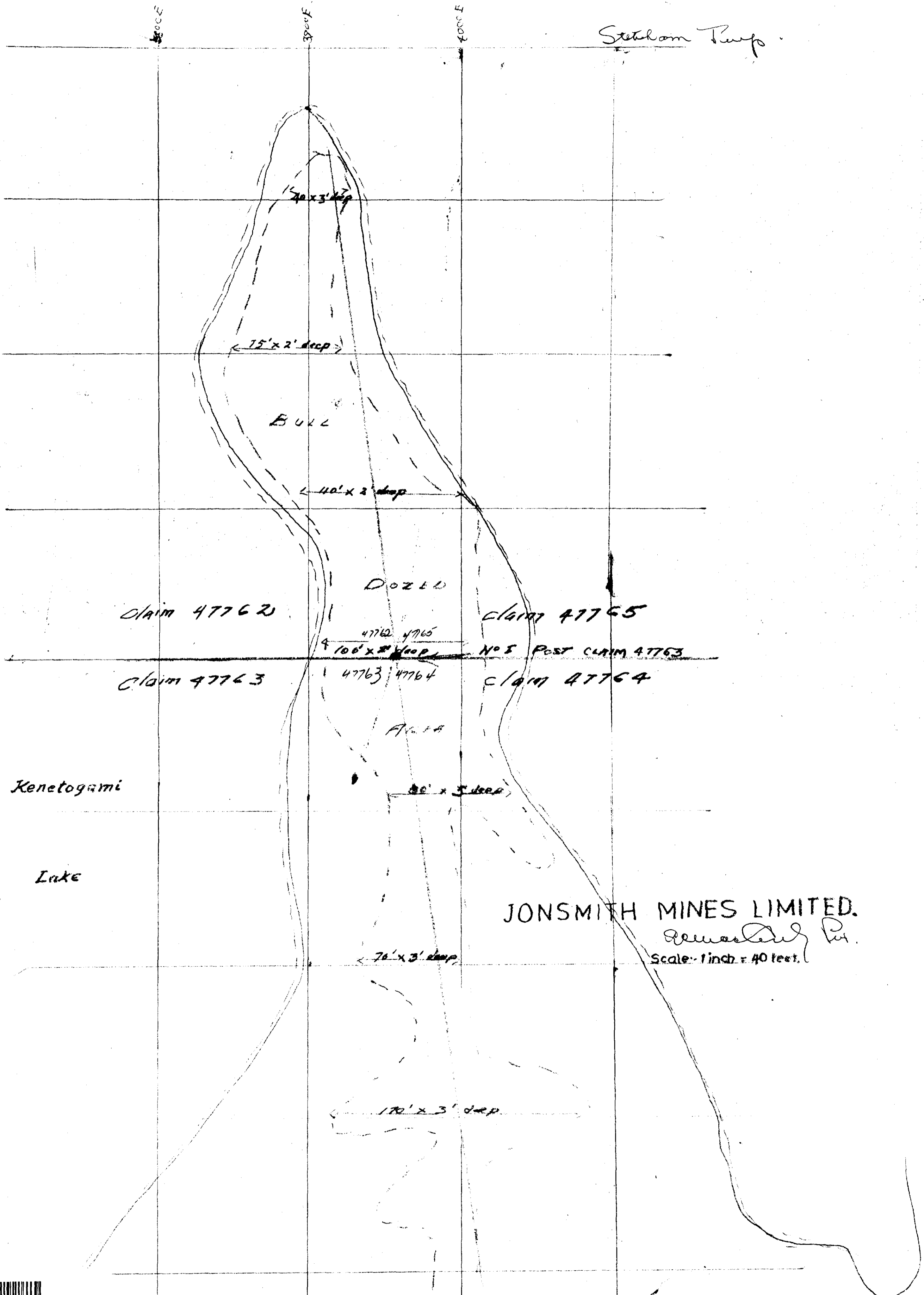
MAGNETOMETER DATA.

Scale Constant: 80 gammas per Scale Division
 Normal Correction: - 2140
 Contour Interval: 100'

LEGEND:

700	gamma to Plus gamma
500	740
300	540
100	340
00	140
00	Minus

Stetham Prop.



Kenetogami

Lake

DOZED

BULL

AREA

JONSMITH MINES LIMITED.

Resurveyed by
Scale: 1 inch = 40 feet.

Claim 47762

Claim 47765

Claim 47763

Claim 47764

47762 47765

47763 47764

No 5 Post Claim 47763

100' x 2' deep

80' x 5' deep

70' x 3' deep

170' x 3' deep

75' x 2' deep

40' x 2' deep

40 x 3' deep

