



52G14SE0009 52G/14SE-35 VALORA LAKE

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DIAMOND DRILLING

Area: VALORA LAKE

Report No:

WORK PERFORMED FOR: MATTAGAMI LAKE MINES LIMITED

RECORDED HOLDER: SAME AS ABOVE []

: OTHER []

<u>CLAIM NO:</u>	<u>HOLE NO:</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
	SL-15-70-7 (SL-16-70-136)	773'	Oct/70	
	SL-15-70-8 (SL-16-70-138)	829'	Oct/70	
	SL-15-70-9	870'	Oct 70	
	SL-15-70-10	185'	Oct/70	
	SL-15-70-11	912'	Oct/70	
	SL-15-70-12	106'	Oct/70	
	SL-15-70-13	76'	Oct/70	
	SL-15-70-14	1054'	Nov/70	
	SL-15-70-15	1017'	Nov/70	
	SL-15-70-16	998'	Nov/70	
	SL-15-70-17	124'	Nov/70	
	SL-15-70-18	146'	Nov/70	
	SL-15-70-19	1006'	Nov/70	
	SL-15-70-22	1252'	Dec/70	
	SL-15-70-23	892'	Dec/70	
	SL-F-70-23	872'	Oct/70	
	SL-15-72-24	721'	Mar/72	
	SL-15-72-25	660'	Apr/72	
	SL-15-72-26	576'	Apr/72	
	SL-15-72-27	902'	Apr/72	

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NOTES:

DIAMOND DRILLING

Area: VALORA LK

Report No:

WORK PERFORMED FOR: MATTAGAMI LAKE MINES LIMITED

RECORDED HOLDER: SAME AS ABOVE []

: OTHER []

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
	SL-15-72-30	788'	Oct/72	
	SL-15-72-31	868'	Oct 72	
	SL-15-72-33	2009'	Nov/72	
	SL-15-72-34	602'	Nov/72	
	SL-15-72-35	724'	Nov/72	
	SL-15-72-37	948'	Nov/72	
	SL-15-72-39	888'	Dec/72	
	SL-15-73-41	1861'	Feb/73	
	SL-15-73-45	1645'	Feb/73	
	SL-15-73-49	2076'	Mar/73	
	SL-15-73-52	1168'	Mar/73	
	SL-15-74-62	790'	May/74	

TOTAL:	32 DH	27,550'
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NOTES:

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FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS		
From	To				From	To	Length			
474.4	486.0	LAMPROPHYRE DYKE Mottled pink, 10-15% small blue qtz metacrysts <1mm in diameter, in a very fine grained, to to aphanitic siliceous rock 10-15% chloritic mafics in spots 1mm in diameter sharp upper contact @45° to core axis.								
486.0	629.0	QTZ-EYE ANDESITIC TUFF Dark grey, 10-15% small <1mm blue qtz-eyes in a very fine-medium grained andesitic matrix with a very high mafic content (roughly 40-50% mafics). 502.0-501.5: Euhedral, coarse, grained, k-feldspar-quartz-vein. 594.0-600.0: Highly chloritic zone with 15% blue qtz-eyes in mafic andesitic rock.								
629.0	651.8	QTZ-EYE DACITIC TUFF Medium grey, 15-20% small <1mm blue qtz-eyes in a dacitic moderately chloritic very fine grained matrix. Gradational from above. 650.0-651.8: APLITE DYKE - Pinkish, very fine grained, acidic, 20% <1mm chlorite specks.								
651.8	773.0	ANDESITE Medium to dark grey, very fine grained, dense, massive with minor qtz-veinlets @60° and 80° to core axis. 731.5-741.5: Dacite - Light grey, very fine grained massive, 45° contacts.								
	773.0	END OF HOLE.								

MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

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BLOCK 77, AREA 15 PROPERTY STURGEON LAKE (No. 15 Abitibi)	LATITUDE 107 + 50 NORTH	STARTED OCTOBER 5, 1970	Footage	Corrected	DIP TEST Footage	Corrected	Footage	Corrected
HOLE NO. SL - 15-70-9	DEPARTURE 2 + 00 EAST	FINISHED OCTOBER 14, 1970	100	50° 00'	400	47° 30'	700	45° 00'
BEARING Mine South	ELEVATION SURFACE	LENGTH 870.0 feet	200	47° 00'	500	46° 30'	800	44° 00'
DIP-COLLAR -50°	SECTION 2 + 00 EAST	LOGGED BY R. T. PARKS	300	47° 30'	600	46° 00'		

FOOTAGE		DESCRIPTION	%	SAMPLE NO.	FOOTAGE			ASSAYS	
From	To				From	To	Length		
0.0	52.0	CASING							
52.0	396.0	ANDESITE Dark grey to green grey, f.g., massive, moderately chloritic. Minor narrow qtz. veinlets at 45° and 60° to C.A. Prominent qtz. veining, m.g. texture, and heavy chloritization in lower 150 ft.							
396.0	525.0	DACITE Medium grey, v.f.g., dense, massive. Minor qtz. stringers							
525.0	575.0	QTZ. EYE RHYODACITIC TUFF Medium grey, v.f.g., dense, Mod. chloritic. 2-5% small blue qtz. metacrysts.							
	525.0 - 531.0 :	Lighter more acidic, rhyolitic, m.g., ash (?) zone.							
	556.0 - 558.0 :	as from 525.0 to 531.0							
575.0	617.6	QTZ. EYE RHYODACITIC TUFF Medium grey, 80% tightly packed, 4-8mm, acidic to intermediate lapillae, subangular to subrounded, in a v.f.g., chloritic matrix. 2-4% blue qtz. metacrysts.							
	595.3 - 617.6 :	Medium grey, v.f.g., rhyodacite with 5% very loosely packed small acidic lapillae 4-10 mm.							
617.6	631.5	QTZ. EYE RHYOLITIC TUFF Light to medium grey, v.f.g., massive, 15% very small < 1mm chlorite specks, 2-4% very small < 1mm qtz. metacrysts.							

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PROPERTY		STURGEON LAKE BLOCK '7'		LATITUDE		STARTED		DIP TEST	
HOLE NO.		AREA '15'		LINE DEPARTURE		FINISHED		Footage	Corrected
BEARING		GRID SOUTH		ELEVATION		LENGTH		Footage	Corrected
DIP-COLLAR		SECTION		LOGGED BY				Footage	Corrected
SL-15-70-10		114 ± 00 NORTH		October 11, 1970					
-45°		28 ± 00 WEST		October 13, 1970					
		SURFACE		185.0'					
				G. G. J. WESTNER					
FOOTAGE		DESCRIPTION		MINERALIZATION		SAMPLE NO.		FOOTAGE	
From	To							From	To
0.0	80.0	C A S I N G							
80.0	140.0	RHYOLITIC TUFF							
		Fine grained to coarse grained sheared and broken; oxidized, rusty; only in part recognizable.							
140.0	170.0	RHYOLITIC AGGLOMERATE							
		Matrix acidic; inclusions acidic; size of inclusions < 1/4"							
		sheared and broken; oxidized.							
170.0	174.0	ANDESITIC TUFF							
		Greenish grey, coarse grained.							
174.0	185.0	RHYOLITIC TUFF							
		Fine grained, banded with locally weak agglomeratic sections.							
		Some quartz-stringers at 185'; coarse sheared and broken.							
		NOTE: Hole is in a fault zone. Total core recovery for 105 feet is only 30 feet.							
		Hole was abandoned at 185'							
		MINERALIZATION: In the sheared and broken core a few odd lumps of hematite (kidney-ore) were found.							

MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

Page

PROPERTY STURGEON LAKE BLOCK "7" Area			DIP TEST					
PROPERTY	STURGEON LAKE BLOCK "7" Area		Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	SL-15-70-14	DEPARTURE 12 + 00 West	100	41°20'	400	30°00	700	21°30
BEARING	Nine South	ELEVATION Surface	200	30°00	500	20°00	800	19°00
DIP-COLLAR	-45°	SECTION 112 + 00 West	300	33°00	600	25°00	1000	16°30

FOOTAGE		DESCRIPTION	% Microsilicification	SAMPLE NO.	FOOTAGE			ASSAYS		
From	To				From	To	Length			

0.0	72.0	CASING								
72.0	70.0	ANDESITIC TUFF								
		Medium green grey, very fine grained to fine grained, moderately chloritic, densely welded bedded 70° to core axis.								
76.0	80.8	DACITIC TUFF								
		Light grey to pink, very fine grained, moderately siliceous bedded 60° to core axis.								
80.8	141.7	ANDESITIC TUFF								
		Medium grey, very fine grained to fine grained, intermediate tuff, slightly chloritic poorly to moderately bedded 60° to core axis. Occasional quartz-veinlets up to 1/2" wide 50° to core axis.								
141.7	151.0	ANDESITIC LAPILLI TUFF								
		Dark grey, fine grained to medium grain, moderately chloritic, higher mafic content than above.								
		141.0-146.0: Agglomeritic Section., Agglomerates more acidic and lensoid.								
151.0	161.0	ANDESITIC ASH TUFF								
		Light grey to pinkish grey, moderately siliceous, coarse grained poorly bedded, slight to moderate chloritic gradational contact.								
161.0	733.0	ANDESITIC TUFF								
		Medium grey to dark grey, fine grained poorly bedded 50° to core axis slightly chloritic, gradational contacts.								
		205.0-230.0: Secondary oxidation, gradual increase from 205.0-230 decrease from 230 to 241.0								
		205.0-235.0: Possible fault zone ground core 2 -230 ground missing core								
		297.0-300.0: Pegmatic vein, pink in colour partially digestine host rock								
		308.0-315.0: Possible fault zone?								
		308-311 Ground missing cprs.								
		312-315 " " "								
		340.0-323.5: Qtz-strgrs. veinlets up to 1" wide 50° to core axis. Prominent from 377-385, up to 10" wide								

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MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

PROPERTY SURVEYOR LARK, LOCK #7, 15' ATITUDE 111 - 30 NORTH STARTED October 1976
HOLE NO. SL-15-70-14 DEPARTURE 12 + 00' FINISHED November 1976
BEARING N.E. SOUTH ELEVATION 500' LENGTH 1054.0 ft. 200 41' 20" 400 30' 00" 700 21' 30"
DIP-COLLAR -45° SECTION 100' 00' WEBS LOGGED BY 1725-20 200 33' 00" 400 25' 30" 700 16' 00"

From	Footage	Description	Sample No.	From	To	Assay
0.0	72.0	CASING				
72.0	76.0	ANDESITIC TUFF Medium green grey, very fine grained to fine grained, moderately chloritic, densely welded bedded 70" to core axis.				
76.0	80.8	LACINIC TUFF Light grey to pink, very fine grained, moderately siliceous, bedded 60" to core axis.				
80.8	141.7	ANDESITIC TUFF Medium grey, very fine grained to fine grained, intermediate sil. slightly chloritic poorly to moderately bedded 60" to core axis. Occasional quartz-veinlets up to 1" wide 50" to core axis.				
141.7	151.0	ANDESITIC LAMILLI TUFF Dark grey, fine grained to medium grain, moderately chloritic, higher mafic content than above.				
		141.0-146.0: Agglomeritic section. Agglomerates more acidic and lensoid.				
151.0	161.0	ANDESITIC LAM TUFF Light grey to pinkish grey, moderately siliceous, coarse grained poorly bedded, slight to moderate chloritic gradational contact.				
161.0	733.0	ANDESITIC TUFF Medium grey to dark grey, fine grained, poorly bedded 50" to core axis slightly chloritic, gradational contact.				
		205.0-225.0: Secondary oxidation, gradual increase from 205 to 230 decrease from 230 to 240.				
		205.0-235.0: Possible fault zone, ground core 205-230 ground 11' line core.				
		297.0-300.0: Pegmatite vein, pink in colour partially digested host rock.				
		308.0-315.0: Possible fault zone? 308-311 Ground: lying apr. 312-315				
		340.0-323.5: Sil. - arg. "unit" up to 10" wide 50" to core axis. Prominent from 317-315, up to 10" wide.				

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MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

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PROPERTY	STURGEON LAKE BLOCK "7" AREA 15	ELEVATION	114 + 00 North	STARTED	October 31, 1970	DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	SL-15-70-16	DEPARTURE	40 + 00 West	FINISHED	November 6, 1970	100	40°00	400	35°30	700	31°00
BEARING	Mine South	ELEVATION	Surface	LENGTH	998.0	200	37°30	500	33°30	800	30°30
DIP-COLLAR	-45°	SECTION	140 + 00 West	LOGGED BY	Pansino	300	36°00	600	32°30	900	29°30

FOOTAGE		DESCRIPTION	% Macrolithisation	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Au	Ag	Zn	Cu	Pb
0.0	48.0	CASING										

48.0 51.8 RHYOLITIC LAPILLI TUFF
Medium grey, intermediate coarse grained, poorly bedded 50° to core axis. Lapillis light loosely packed, acidic small 4-32mm rounded.

51.8 88.6 RHYOLITIC AGGLOMERATE
Range from green grey to pinkish grey, intermediate with more acidic agglomerates, moderately to densely packed agglomerates in a more mafic matrix. Agglomerates rounded to sub-angular up to 1", random, gradational contacts.
3.0-66.0: Secondary carbonatization taking place along fracture planes.
73.0-80.8: Rhyolitic lapilli tuff, medium grey, intermediate medium grained, poorly banded.

88.6 554.0 ANDESITIC TUFF
Medium green to dark green grey, intermediate with more mafic sections. fine grained poorly banded approximately 50° to core axis quartz and calcite stringers up to 1" throughout approximately 5% distribution, from 50° to 80° to core axis.
102.0-103.1: Rhyolitic Agglomerate same as mentioned above.
149.3-151.2 " " " " "
128' Secondary carbonatisation along fracture plain
130' " " " " "
147' " " " " "
149.1 " " " " "
182.5 " " " " "
299.2 " " " " "
231.5-233.0: Ground lost core
358.0-353.0: Rhyolitic tuff (Dacitic) light grey, acidic, fine grained, bedded 80° to core axis.
373.0-379.0: Sporadic agglomeratic sections acidic

tr. >1py 18466 366.2 370.1 3.9 Nil Nil Nil Nil Nil

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M.L.M. EXPLORATION DIVISION, O.D.H. RECORD

PROPERTY STURGEON LAKE BLOCK "7" HOLE NO. SL-15-70-16 Page 2/2

FOOTAGE		DESCRIPTION	%	SAMPLE NO.	FOOTAGE			ASSAYS					
From	To				From	To	Length	Au	Ag	Zn	Cu	Pb	
554.0	612.0	DACITIC TUFF Grey acidic with basic sporadic sections, agglomeratic fine grained, welded, and banded in places to 70° to core axis, short rhyolitic section.											
612.0	869.0	RHYOLITIC AGGLOMERATE Approximately 5-10% matrix, andesitic more basic than inclusions, medium grained, Inclusions mainly sub-angular to elongated light grey acidic, moderately to light packing, welded, trace pyrite, odd beds 70° to core axis. 792.0-812.0: Reddish section possible permeation, talcy? Grading out of Rhyolitic Agglomerate into 869.0-901.0	tr. py, po " " " " " " " "	18467 18468 18469 18470 18471 18472 18473 18474 18475 18476 18477	621.7 631.7 636.7 667.8 682.6 687.6 692.6 697.5 702.5 725.2 740.5	623.5 636.7 640.9 672.4 687.6 692.6 697.5 702.5 707.5 728.5 743.6	1.8 5.0 3.7 4.6 5.0 5.0 4.9 5.0 5.0 3.3 3.1	Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil	Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil	Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil	Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil	Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil	
869.0	901.0	ANDESITIC-(RHYOLITIC) AGGLOMERATE Matrix deep green grey, basic, medium grained, moderately chloridic. Agglomerates felsic and acidic elongated 70° to core axis, up to 1" long, mainly ½" welded also qtzoid agglomerates elongated 70° to core axis.											
901.0	931.0	ANDESITIC (ASH) TUFF Green grey, speckled, andesitic composition, bedded @ 40° to core axis coarse grained ashy, grading to 931.0-947.0											
931.0	947.0	ANDESITIC TUFF Deep green, basic composition, poor bedding, odd lapillis up to 6mm felsic; some quartz stringer up to ½", 50° to core axis. Odd blotch mineralization.											
947.0	998.0	ANDESITIC (ASH) TUFF Green grey, intermediate to basic, fine grained matrix, coarse grained ash, welded. Ash 20-30%, light grey, acidic elongated to 50° to core axis, moderately chloritic. 960.0-968.0: Quartz-veinlets secondary origin, up to ½" wide random											
998.0		END OF HOLE											

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WATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

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PROPERTY STURGEON LAKE BLOCK '7'		LATITUDE 106 + 00 North	STARTED November 9, 1970	DIP TEST			
MOLE NO. SL-15-70-17 AREA 15		DEPARTURE 28 + 00 West	FINISHED November 12, 1970	Footage	Corrected	Footage	Corrected
BEARING Grid South		ELEVATION Surface	LENGTH 124.0'				
DIP-COLLAR -50°		SECTION	LOGGED BY Pansino				

FOOTAGE		DESCRIPTION	% mineralization	SAMPLE NO.	FOOTAGE			ASSAYS			
From	To				From	To	Length				
CASING											
0.0	124.0	Drill hole lost and abandoned in sand boulder overburden casing broke @116.0', could not be retrieved.									

(SEE HOLE NO. 18)

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PROPERTY		LATITUDE	STARTED	DIP TEST		DIP TEST		DIP TEST		DIP TEST	
STURGEON LAKE BLOCK "7" Area		79 + 00 NORTH	November 12, 1970	Footage	Corrected	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	SL-15-70-19	DEPARTURE	48 + 00 WEST	FINISHED	November 22, 1970	100	47° 30'	400	36° 00'	700	30° 00'
BEARING	GRID SOUTH	ELEVATION	SURFACE	LENGTH	1006.0'	200	44° 30'	500	35° 30'	800	29° 00'
DIP-COLLAR	-50°	SECTION		LOGGED BY	PANSINO	300	40° 30'	600	31° 00'	900	27° 00'
FOOTAGE		DESCRIPTION		SAMPLE NO.		FOOTAGE		ASSAYS			
From	To					From	To	Length	Au	Ag	Pb
0.0	88.0	CASING									
88.0	346.5	ANDESITIC RHYOLITIC AGGLOMERATE									
		Ranging from grey to green, matrix-acidic to intermediate, fine grained poorly bedded sections 70° to core axis, with almost massive sections. Inclusions range from tightly packed to void sections, rhyolitic up to 4" rounded to elongated parallel to bedding. Quite random packing with gradational contacts. A few scattered specks of pyrite found in matrix.									
		88.0-336.0: Tightly packed agglomerates welded and almost dacitic.									
		218.0-226.0: Slight reddish alteration in matrix, possible hydrothermal solutions?									
		Grading to Andesitic Tuff, with some lapillis									
346.5	475.0	ANDESITIC TUFF									
		Green, fine grained, intermediate to basic, poorly bedded, sporadic inclusions felsic, and calcite stringers specks of cpy and py slightly chloritic, gradational contacts.									
		357.6-372.0: Andesitic Lapilli Tuff, matrix same as above loose packing, felsic lapilli acidic rounded random.									
		451.0-454.0: Ground lost core									
		458.0-459.0: " " " "									
		468.0-469.0: " " " " possible fault zone?									
475.0	573.0	ANDESITIC TUFF (AGGLOMERATIC)									
		Green basic, fine grained, bedded 60° to core axis, 10% inclusions felsic up to 4" elongated to bedding plane.									
		536.0-564.0: Slight chloritization									
		572.0-573.0: Ground lost core									
573.0	879.0	ANDESITIC TUFF									
		Green basic, fine grained, poorly bedded 70° to core axis slight chloritization.									
		Inclusions felsic, (scraps) up to 4". 5-10% packing the odd calcite stringer, ranging from 0-90% to core axis. Specks cpy, and py.									

MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

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PROPERTY	STURGEON LAKE BLOCK 7 - AREA 15	LATITUDE	95+ 00 NORTH	STARTED	NOVEMBER 25, 1970.	DIP TEST					
FILE NO.	SL-15-70-22	LONGITUDE	28+ 00 WEST	FINISHED	DECEMBER 7, 1970.	Footage	Corrected	Footage	Corrected	Footage	Corrected
MARKING	GRID - NORTH	ELEVATION	SURFACE	LENGTH	1252.0'	100'	45° 30'	700'	19° 00' ✓	1000'	11° 15'
P-COLLAR	-50°	SECTION		LOGGED BY	R. HINSINO	200'	41° 30' ✓	800'	16° 00' ✓	1100'	11° 00' ✓
						300'	35° 30' ✓	900'	14° 45' ✓	1200'	9° 30'
						400'	29° 30' ✓				
						500'	26° 00' ✓				
						600'	24° 00' ✓				

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Au	Ag	Zn	Cu	Pb
0.0	14.0	CASING										
14.0	613.0	ANDESITIC TUFF Deep green, fgr., basic, poorly bedded 70° C. A. Approx. 5-10% felsic inclusions, light colour, acidic, up to 1" size and mainly rounded with slight elongation. Slight chloritization, scattered calcite stringers up to 1" ranging at all angles to C. A. Mainly a tuff section, tightly packed and few short aggl'tic sections. Sporadic spks. of py & cot 90°, py str. and 1/8" wide At 24, 9' loaded bomb, rhyolitic with py centre.										
		593.5 - 613.0 Andesitic lapilli tuff, same matrix as above, inclusions up to 4 mm, felsic, slight elongation										
613.0	649.0	ANDESITIC AGGLOMERATE Matrix same as above, with felsic inclusions, up to 1", subrounded acidic, almost welded with matrix, with 10% packing. Gradational contacts.										
		640.0 - 647.0 Andesitic Tuff, green grey fgr., poorly bedded to almost massive.										
649.0	697.0	RHYOLITIC AGGLOMERATE Very little to no matrix. Inclusions up to 1" light gray, tightly packed, acidic. Andesitic matrix same as above.										
697.0	716.0	ANDESITIC LAPILLI TUFF Deep green, fgr., andesitic matrix basic, poorly bedded 70° C. A. Darker lapillia with more basic, almost andesitic elongated to bedding, up to 4 mm loosely packed.										
716.0	835.1	RHYOLITIC AGGLOMERATE Dark green matrix, andesitic basic, approx. 60% aggl'tes up to 1", acidic elongated at 70° C. A. and in places random packing.	Tr. py " " & cpy " " & " Tr. - 1% py " "	18478 18479 18480 18481 18482 18483	726.1 788.3 793.2 798.0 803.7 808.6	731.0 793.2 798.0 803.7 808.6 813.5	4.9 4.9 4.8 5.7 4.9 4.9	Nil Nil Nil Nil Nil Nil	Nil Nil .17 .06 .12 Nil	Nil Nil Nil Nil Nil Nil	Nil Nil 21 54 32 60 Nil	Nil Nil Nil Nil Nil Nil
		725.0 - 734.0 Aggl'tic zone, reddish alteration of matrix	Tr. py	18483	808.6	813.5	4.9	Nil	Nil	Nil	Nil	Nil

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PROPERTY	STURGEON LAKE BLOCK '7' Area	LATITUDE	106 + 00 NORTH	STARTED	December 9, 1970	Footage	Corrected	DIP TEST Footage	Corrected	Footage	Corrected
HOLE NO.	SL-15-70-23	DEPARTURE	20 + 00 WEST	FINISHED	December 16, 1970	100'	46° 30' ✓	400'	46° 30' ✓	700'	37° 0'
BEARING	GRID SOUTH	ELEVATION	SURFACE	LENGTH	292.0'	200'	45° 30' ✓	500'	40° 00' ✓	800'	36° 0'
DIP-COLLAR	-50°	SECTION		LOGGED BY	PANSINO	300'	44° 30' ✓	600'	38° 00' ✓	890'	35° 3'

FOOTAGE	From	To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE	From	To	Length	ASSAYS
0.0	32.0		CASING							
32.0	353.0		ANDESITIC ASH TUFF Green grey, basic, coarse grained, ashy, bedded 50° to core axis. Gradational from ash to tuffs.							
			98.0-100.0: Andesitic Tuff: Green grey, basic, fine grained, poorly bedded.							
			160.0-174.0: Poor blocky ground.							
			249.0-249.6: Short quartz pegmatite vein, pink, very coarse grained xtls gradational contacts.							
			Carbonate stringers throughout, up to 1" at all angles to core axis.							
353.0	392.5		DACITIC TUFF Grey, intermediate, fine grained, welded quartz calcite stringers up to 1" wide and ≈ 40° to core axis, cavity filling, evidence of fugs, crystal faces of quartz and calcite.							
392.5	601.5		RHYOLITE AGGLOMERATE Very little matrix, dark andesitic, fine grained, no bedding. Agglomerates up to 1/2", felsic, acid elongated to 70° to core axis welded.							
			407.0-414.0: Small traces of pyrite acting as matrix.							
			467.0-496.0 RHYOLITE TUFF Light grey acid coarse grained poorly bedded. An. altered tuff, with coarse grained Rhyolite and andesite xtls							
			470.0-536.5: The Rhyolite agglomerates in this section have a slight reddish alteration, however, the andesitic material acting as the matrix was not altered. The agglomerates were already altered before, consolidating, or the alteration material reacted only with the acid agglomerates?							
			591.0-594.0 Ground lost core.							

FOOTAGE		DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS	
From	To				From	To	Length		
601.5	640.0	DACITIC TUFF ASH Greyish, green, ashy, intermediate welded, gradational to almost andesitic.							
		605.0-607.0 GROUND LOST CORE							
		612.0-616.0 " "							
640.0	892.0	ANDESITIC TUFF. Green fine grained, poorly bedded, basic, welded.							
		658.0-714.0 Mainly an ash, however, containing felsic inclusions up to 1/2", elongated 50° to core axis, welded.							
		729.5-731.5 Ground lost core.							
		747.5-749.5 " "							
		A number of quartz calcite stringers up to 1/8" at all angles to core axis.							
892.0		END OF HOLE.							

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PROPERTY		LATITUDE		STARTED		DIP TEST							
Sturgeon Lake Area 15 Block 7		86 + 00 N		March 25, 1972		Footage		Corrected		Footage		Corrected	
LE NO.	SL-15-72-24	DEPARTURE	36 + 00 W	FINISHED	March 30, 1972	200	47° 00'						
ARING	Grid South	ELEVATION	Surface	LENGTH	721.0'	400	41° 00'						
3-COLLAR	-50°	Line SECTION	36 + 00 W	LOGGED BY	Hkn. Yawnehwe	600	36° 30'						
FOOTAGE		DESCRIPTION				% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS		
From	To							From	To	Length			
0	44.0	Casing					29556	311.0	316.0	5.0	nil	nil	nil
							29557	316.0	321.0	5.0	nil	nil	nil
							29558	321.0	326.0	5.0	nil	nil	nil
							29559	326.0	331.0	5.0	nil	nil	nil
44.0	476.0	Mattabi Footwall Agglomerates				Tr Py	29525	331.0	336.0	5.0	nil	nil	Tr .07
		Sub-rounded and sub-angular Rhyolitic Lapilli 5-15 mm.				1 Py < 1 Cp	29526	336.0	341.0	5.0	nil	nil	.15
		Moderate packing in a greenish, Chloritic Dacitic Matrix.				1 Py, 1 Cp	29527	341.0	343.5	2.5	nil	nil	.15
		Very indurated and hard-silicified looking. Stringer				1 Py, 1 Cp	29528	343.5	346.0	2.5	nil	.06	.27
		Sulphide, Cp Py associated with quartz veins.				1-2Py, 1-5Cp	29529	346.0	348.5	2.5	.015	.40	1.63
		Tr - 5% Co, Py 336.0 - 373.5				1-3Py, 1-5Cp	29530	348.5	351.0	2.5	.011	.17	1.12
		203.0 - 205.0 Quartz Vein				Tr-1 Py, Cp	29531	351.0	353.5	2.5	nil	nil	.15
						Tr-1 Py, Cp	29532	353.5	356.0	2.5	nil	nil	.17
						1-2 Co, Py	29533	356.0	359.0	3.0	nil	nil	.12
476.0	721.0	Rhyolitic Tuff				2-5 Co, Py	29534	359.0	360.0	1.0	nil	nil	.24
		Greyish, very Siliceous, fine grained with minor				LOST CORE	LOST CORE	360.0	361.0	1.0			
		Cherty looking bands. Tr - speckled Co Py				Tr-1Co Py	29535	361.0	363.5	2.5	nil	nil	.26
		682.0 - 696.0 - Brecciated Agglomeritic horizons				Tr-1Co Py	29536	363.5	368.5	5.0	nil	nil	.05
		with Chloritic Matrix				Tr-1Co Py	29537	368.5	373.5	5.0	nil	nil	Tr .02
		696.0 - 721.0 - Aphanitic Cherty horizon with green				Tr. Py2	29538	373.5	378.5	5.0	nil	nil	.01
		Chloritic bands and Stringers.					29560	378.5	383.5	5.0	nil	nil	nil
							29561	383.5	388.5	5.0	nil	nil	nil
							29562	388.5	393.5	5.0	nil	nil	nil
							29563	393.5	398.5	5.0	nil	nil	.02
						Nil	29539	398.5	399.0	5.0	nil	nil	nil
						< 1 Py	29540	399.0	400.0	1.0	nil	nil	.03
						1 Py, 1 Cp	29541	400.0	401.0	1.0	nil	nil	.06
						Nil	29542	401.0	402.0	1.0	nil	nil	.02

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MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

Page 1

PROPERTY		LATITUDE	STARTED	DIP TEST			
STURGEON LK. AREA 15		86 + 00 N	April 7, 1972	Footage	Corrected	Footage	Corrected
BLOCK NO. GL-15-72-26		DEPARTURE	FINISHED	Footage	Corrected	Footage	Corrected
BEARING Grid South		ELEVATION	LENGTH	Footage	Corrected	Footage	Corrected
DIP-COLLAR -50°		Line SECTION	LOGGED BY	Footage	Corrected	Footage	Corrected
0	90.0	Casing Bedrock at 82.0'					
90.0	315.5	Mattabi Footwall Agglomerate	Nil	29564	205.5	210.5	5.0
		Siliceous, Rhyolitic Lapilli 5-20 mm. Moderate	Nil	29565	210.5	215.0	5.0
		packing in a fine grained intermediate Dacitic Matrix;	< 1 Cp, < 1 Py	29566	215.5	216.5	1.0
		hard indurated. There is some degree of variation in	Tr-1 Py	29567	216.5	221.5	5.0
		the proportion of Lapilli to Matrix, and this variation	Tr - Py	29568	221.5	226.5	5.0
		is reflected in the drill core.	Tr - Py	29569	226.5	231.5	5.0
315.5	354.5	Rhyolite	Nil	29570	302.0	305.0	5.0
		Tuff and well packed Agglomerates. Siliceous grey,	Nil	29571	305.0	310.0	5.0
		fine grained. The tuffs are fine grained greyish with	Tr - 1 Py	29572	310.0	315.5	5.5
		specks Tr-2 Py, and the well packed Agglomerates are	Tr - 1 Py	29573	315.5	319.0	3.5
		Aphanitic with fine Chlorite Stringers and with 5-10 Py	Tr - 1 Py	29574	319.0	321.0	2.0
		Stringer & Blebs.	1 Py	29575	321.0	326.0	5.0
			1-5 Py	29576	326.0	331.0	5.0
354.5	444.0	Mattabi Footwall Agglomerate	< 1 Py	29577	331.0	334.0	3.0
		Similar to as described 90.0 - 315.5.	1 Py	29578	334.0	339.0	5.0
			5-10 Py	29579	339.0	341.5	2.5
			1-5 Py	29580	341.5	346.0	4.5
444.0	576.0	Rhyolitic Tuff	< 1 Py 1 Sp?	29581	346.0	348.0	2.0
		Fine grained to Aphanitic. Siliceous, greyish, hard.	< 1 Py 1 Sp?	29582	348.0	351.0	3.0
		Sections welded Agglomerate looking, Cherty, section with	< 1 Cp 1 Py?	29583	351.0	354.5	3.5
		"Quartz-Eyes", sections with Chloritic Matrix and Stringers.	Nil	29584	354.5	359.5	5.0
			1 Py	29585	359.5	364.5	5.0
		480.0 - 508.5 Rhyolitic Tuff, Siliceous, grey, with	1 Py 1 Sp?	29586	364.5	369.5	5.0
		scattered Quartz-Eyes 2-3 mm, rounded	1 Sp ??	29587	369.5	374.5	5.0
		& sub-rounded,	Nil	29588	458.0	463.0	5.0
		506.5 - 576.0 Rhyolitic - Cherty Tuff with Chloritic	Tr Py	29589	463.0	468.0	5.0
		bands & Stringers. From 566.0 to the end of	Tr-1 Py	29590	468.0	473.0	5.0
		ddh. The Rhyolitic Tuff looks somewhat	1-2Pyl-2Pcl-5Cp	29591	473.0	474.5	1.5
		Brecciated & with green Chloritic Matrix,	1-5 Py	29592	474.5	477.5	3.0
		& Specks min. Blebs Py. - Barren.	2-5Cp!-2Pyl-2Sp?	29593	477.5	479.0	1.5
			2-3 Py	29594	479.0	484.0	5.0
			2-3 Py	29595	484.0	489.0	5.0
			2-3 Py	29596	489.0	494.0	5.0
			2-3 Py	29597	494.0	499.0	5.0
			1-3 Py	29598	499.0	504.0	5.0
			1-2 Py	29599	504.0	509.0	5.0
			Tr Py	29600	509.0	514.0	5.0
576.0		End of Hole					

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PROPERTY	LATITUDE	STARTED	DIP TEST						
			Footage	Corrected	Footage	Corrected	Footage	Corrected	
Area 15, Block 7 Sturgeon Lake SI 15-72-27	28 + 00 North	April 12, 1972							
DEPARTURE	36 + 00 West	FINISHED April 17, 1972	200	46° 00'					
ELEVATION	Surface	LENGTH 902.0'	400	44° 00'					
COLLAR -50°	Line SECTION 36 + 00 West	LOGGED BY Hkn. Yavnghe & J. Kasarda	600	44° 00'					

FOOTAGE		DESCRIPTION	S Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Au	Ag	Zn	Cu	Pb
0	26.0	Casing. Bedrock at 18.0'										
26.0	428.0	Mattabi Footwall Agglomerates Sub-rounded and sub-angular Rhyolitic Lapilli 5-15 mm in a Chloritic, greenish intermediate matrix. The proportion of matrix to Lapilli varies from abundant Lapilli to predominant matrix with occasional lapilli. The whole amount is rather Silicified and indurated. 118.0 - 173.0, pinkish alteration due to feldspathization? or perhaps hematite staining. Towards the contact with the Rhyolitic horizon, the texture of the Footwall Agglomerates become finer, and grades into: -	Specks py 1-2 py, tr, cp? Tr py	28820 28821 28822	421.5 426.5 427.5	426.5 427.5 432.5	5.0 1.0 5.0	nil nil nil	nil nil nil	nil nil nil	nil nil nil	
428.0	491.5	Rhyolitic Tuff With Mafic shards and Amphibole-like growths. This Rhyolitic horizon is fine grained tuffaceous, greyish with green tinge caused by Chloritic Stringers. A somewhat coarse texture is imparted by inclusion of Mafic, green shards and needle the growths of Amphibole? Probably this horizon simply reflects the local scarcity of Lapilli - a local feature or facies change.	Tr - cl py Tr - lpy, cp? Tr - lpy, cp? 2-3 py, cp Tr py, cp? Tr py, cp? Nil	26823 28824 26825 28826 28827 28828 28829	444.0 449.0 451.5 455.5 456.5 459.0 461.5	449.0 451.5 455.5 456.5 459.0 461.5 464.0	5.0 2.5 4.0 1.0 2.5 2.5 2.5	nil nil nil nil nil nil nil	nil nil nil nil nil nil nil	nil nil nil nil nil nil nil	nil nil nil nil nil nil nil	
491.5	512.0	Brecciated? Rhyolitic Lapilli Tuff Siliceous. Fine grained to Agglomeritic with sheared and brecciated lapilli, green colour imparted by Chloritic Stringers. It grades into: -										
512.0	610.0	Mattabi Footwall Agglomerate Over the gradational contact with the preceding horizon, the Agglomeritic nature of the horizon is not obviously apparent. It looks more like a coarse looking mixture of Mafic and Siliceous shards in a Siliceous fine grained Matrix. It grades into an unmistakable Agglomeritic horizon with moderately well packed Lapilli 10-15 mm in a somewhat more Siliceous fine grained Matrix. It is a Silicified and Granitized looking section, which then grades back into a mixed look coarse Shardy Tuff which is also Silicified and indurated.										

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MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

Page 1

PROPERTY		LATITUDE		STARTED		DIP TEST					
Sturgeon Lake Block 7 Area 15		79 + 00 N		October 19, 1972		Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO. EL-15-72/30		DEPARTURE 20 + 00 W		FINISHED October 25, 1972		100'	52°00'	400'	49°00'	700'	46°
BEARING 170°00'		ELEVATION Surface		LENGTH 768.0'		200'	53°30'	500'	45°30'		
DIP-COLLAR -50°		SECTION 20 + 00 W		LOGGED BY L. Stephenson		300'	50°00'	600'	47°		
FOOTAGE		DESCRIPTION		% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS		
From	To					From	To	Length			
0.0	68.0	CASING (Bedrock @ 60.0')									
68.0	81.0	RHYOLITIC MICRO AGGLOMERATE Buff creamy white with pinkish tint. Very siliceous. Aphanitic. 5-10 mm lapilli blend into siliceous matrix. Pink tint from feldspar weathering some disseminated py. Some 1" quartz veins with surrounding silicification - foliation at 45° to core axis. Lower 2.0' of unit tuffaceous. Fine grained. Sharp lower contact at 70° to core axis - sharp change to lower unit but exact contact a bit hazy.									
81.0	152.0	MATTABI FOOTWALL AGGLOMERATE Grey-green matrix, good subrounded to rounded lapilli, 5-10 mm up to 20 mm, loosely packed. Felsic lapilli, more densely packed towards bottom of unit. Some disseminated py in zone. Fine grained to aphanitic.									
152.0	242.0	DARKWATER RHYOLITIC MICRO AGGLOMERATE Light grey. More densely packed. Matrix very siliceous. Hard to distinguish fragments from matrix. Lapilli subrounded up to 30 mm. Fine grained to aphanitic.									
		190.0 - 242.0 Very light grey with intermediate subrounded to subangular fragments. 5-15 mm. Siliceous fragments up to 45 mm hard to distinguish. Very siliceous smaller fragments towards bottom. 2-10 mm. At 216.5 - 217.5 - cherty inclusion fragment or bomb. contacts at 35° to core axis. 234.0 - 234.6 - some amygdules. Contact at 30°. Upper indeterminant. Lower cherty bomb or fragment. 213.0 - 225.0 - some chloritization - light, colour darkened. At 222.0 - 222.2 quartz vein									

FOOTAGE		DESCRIPTION	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To			From	To	Length	Au	Ag	Zn	Cu	Pb
438.0	502.0	Disseminated py,po,sph and cp zone from	Tr, Py,Po	39176	418.1	422.3	4.2	nil	Tr.	.01	nil
		416.0-438.0: 1-2% overall total sulphide	1 Py,Tr,Po,Tr,Sph	39177	422.3	423.8	1.5	nil	Tr.	.01	nil
		380.7-416.0: Minor sulphides Tr <1% mainly py,po & sph.	Tr,py,po	39178	423.8	428.8	5.0	nil	Tr.	.01	nil
		RHYODACITIC FLOW Fine to medium grained, Grey, Rounded amygdules, quartz filled mainly. Some carbonate. Amygdules up to 12mm. Grational upper contact. Disseminated sulphide zone continuation of zone in previous unit - 438.0-451.5. Lower contact gradational. Amygdules disappear in last 5' of unit. Massive sulphide band at 480.0-482.0. Core ground from 482.0-484.0 some of the rock fragments recovered has some sulphide in them (Sample 39190) Ground Core: 482.0-484.0	<1cp,1-2sph,1py,po	39179	428.8	433.0	4.2	nil	.5	.02	.02
			1-2Po,Py,1sph.Tr,Cp	39180	433.0	435.5	2.5	nil	.3	.02	.01
			2-3Sph,1-2Po,1Py,Tr,Cp	39181	435.5	437.2	1.7	nil	.7	.02	nil
			1sph,1-2po,py,tr,cp	39182	437.2	439.8	2.6	nil	.4	nil	nil
			<1sph,<1po,py	39183	439.8	441.2	1.4	nil	.2	nil	nil
			5Po,1Py,<1Sph	39184	441.2	442.5	1.3	nil	.5	.04	nil
			2-3Po,1-2Sph,<1Py,Tr,Cp	39185	442.5	446.5	4.0	nil	.7	.03	nil
			Tr,Py	39186	446.5	451.5	5.0	nil	.1	nil	nil
			Tr,Py	39187	451.5	456.5	5.0	nil	.1	nil	nil
			Nil								
			1-15sph,<1cp,1py								
			1sph	39188	475.0	480.3	5.3	nil	.1	nil	nil
				39189	480.3	481.1	0.8	nil	3.5	.08	nil
502.0	515.0	(Silicified Zone)	Nil	39190	481.1	482.0	0.9	nil	.4	.04	nil
		505.0-510.2: very siliceous and carbonaceous dike-filled in breccia zone as same angular felsic fragments up to 50mm found in dike material/matrix	Tr,Py		482.0	484.0	2.0	LOST CORE			
		502.0-505.0 & 510.2-515.0: Grey. Fine grained. Rhyodacitic tuff/flow. Some amygdules in lower portion. Very siliceous. Silicified due to dike.	<1Py,Tr,Po	39191	484.0	489.5	5.5	nil	.1	nil	nil
				39192	489.5	492.5	3.0	nil	Tr.	nil	nil
				39193	492.5	496.0	3.5	nil	.1	nil	nil
515.0	551.0	RHYODACITIC FLOW									
		As as 438.0-502. Smaller amygdules - takes on appearance of a coarse tuff from 528.0-540.0.									
551.0	622.0	546.0-551.0: Amygdules resemble siliceous fragments. Gradation to MATTABI FOOTWALL.	Nil	39194	546.5	551.0	4.5	nil	.1	nil	nil
		MATTABI FOOTWALL AGGLOMERATE									
		As at 61.0-152.0. Concentration of lapilli varies. Gradational upper contact. Matrix Dacitic to Andesitic									
		551.8-551.9: Quartz carbonate vein with Cp, Py	1-2Cp,1-2Py	39195	551.0	552.0	1.0	nil	.2	.21	nil
		557.4-557.5: Quartz carbonate vein with Cp & Py	Tr,Py	39196	552.0	557.2	5.2	nil	.2	.05	nil
		559.7-560.1: Quartz carbonate vein with Cp & Py	<1Cp,<1Py	39197	557.2	558.1	0.9	nil	.1	.04	nil
		592.1-592.3: Quartz carbonate vein with Py	Tr, Py	39198	558.1	559.6	1.5	nil	.1	.02	nil
			Tr,Cp,Tr,Py	39199	559.6	560.3	0.7	nil	.1	.02	nil
			Tr,Py	39200	560.3	565.3	5.0	nil	.1	nil	nil

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POOR QUALITY ORIGINAL
TO FOLLOW

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Ag	As	Zn	Cu	Pb
		Disseminated py, cp, sph and ss zone from 416.0 - 438.0. 1-2% overall total sulphide	Tr, Py, Po	39176	418.1	422.3	4.2		nil	Tr.	.01	nil
		350.7 - 416.0. Minor sulphides Tr < 1% mainly py, cp, & sph.	1 Py, Tr, Po, Tr, Sph	39177	422.3	423.8	1.5		nil	Tr.	.01	nil
			Tr, py, cp	39178	423.8	426.8	3.0		nil	Tr.	.01	nil
			< 1cp, 1-2sph, 1py, po	39179	428.8	433.0	4.2		nil	.5	.02	.02
			1-2Py, Py, 1Sph, Tr, Cp	39180	433.0	435.5	2.5		nil	.3	.02	.01
			2-3Sph, 1-2Py, 1Py, Tr, Cp	39181	435.5	437.2	1.7		nil	.7	.02	nil
438.0	502.0	RYODACITIC FLOW	1sph, 1-2py, py, tr, cp	39182	437.2	439.8	2.6		nil	.4	nil	nil
		Fine to medium grained. Grey. Rounded amygdules, quartz filled mainly. Some carbonate.	< 1sph, < 1py, py	39183	439.8	441.2	1.4		nil	.2	nil	nil
		Amygdules up to 12 mm. Gradational upper contact.	5Py, 1Py, < 1Sph	39184	441.2	442.5	1.3		nil	.5	.04	nil
		Disseminated sulphide zone continuation of zone in previous unit - 438.0 - 451.5. Lower contact gradational. Amygdules disappear in last 5' of unit.	2-3Py, 1-2Sph, < 1Py, Tr, Cp	39185	442.5	446.5	4.0		nil	.7	.03	nil
			Tr, Py	39186	446.5	451.5	5.0		nil	.1	nil	nil
			Tr, Py	39187	451.5	456.5	5.0		nil	.1	nil	nil
		Massive sulphide band at 480.0 - 482.0.	Nil	39188	475.0	480.3	5.3		nil	.1	nil	nil
		Core ground from 482.0 - 486.0 some of the rock fragments recovered has rock sulphide in them. (Sample 39190).	12-15sph, < 1cp, 1py	39189	480.3	481.1	0.8		nil	3.5	.08	nil
			1sph	39190	481.1	482.0	0.9		nil	1.4	.04	nil
					482.0	484.0	2.0	LOST CORE				
			Nil	39191	484.0	489.5	5.5		nil	.1	nil	nil
		Ground Core: 482.0 - 486.0.	Tr, Py	39192	489.5	492.5	3.0		nil	Tr.	nil	nil
			< 1Py, Tr, Po	39193	492.5	496.0	3.5		nil		nil	nil
502.0	515.0	RYODACITIC TUFF/FLOW (Silicified Zone)										
		505.0-510.2 - very siliceous and carbonaceous dike-filled in breccia zone as same angular folitic fragments up to 50 mm found in dike material/matrix.										
		502.0 - 505.0 & 510.2 - 515.0. Grey. Fine grained. Rhyodacitic tuff/flow. Some amygdules in lower portion. Very siliceous. Silicified due to dike.										
515.0	551.0	RYODACITIC FLOW										
		As at 438.0-502. Smaller amygdules - takes on appearance of a coarse tuff from 528.0-540.0. 546.0-551.0. Amygdules resemble siliceous fragments. Gradation to PATTHBI FOOTWALL.	Nil	39194	546.5	551.0	4.5		nil	.1	nil	nil
551.0	622.0	PATTHBI FOOTWALL AGGLOMERATE										
		As at 51.0-152.0. Concentration of lapilli varies. Gradational upper contact. Matrix Dacitic to Andesitic.										
		551.5 - 551.9 - Quartz carbonate vein with Cp, Py	1-2Cp, 1-2Py	39195	551.0	552.0	1.0		nil	.2	.21	nil
			Tr, Py	39196	552.0	557.2	5.2		nil	.2	.05	nil
		557.4 - 557.5 Quartz carbonate vein with Cp & Py	< 1Cp, < 1Py	39197	557.2	558.1	0.9		nil	.1	.04	nil
			Tr, Py	39198	558.1	559.6	1.5		nil	.1	.02	nil
		559.7 - 560.1 Quartz carbonate vein with Cp & Py	Tr, Cp, Tr, Py	39199	559.6	560.3	0.7		nil	.1	.02	nil
			Tr, Py	39200	560.3	565.3	5.0		nil	.1	nil	nil

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M.L.M. EXPLORATION DIVISION, D.D.W. RECORD

STURGEON LAKE

PROPERTY BLOCK 7 AREA 15

HOLE NO. SL-15-72/30 Page 5

FOOTAGE		DESCRIPTION	% Minerals	SAMPLE NO.	FOOTAGE			ASSAYS	
From	To				From	To	Length		
712.0	721.0	ACID DIKE Green and white colouring. Somewhat similar to one at 667.0-685.0 but not pink. With little to none py & mt. Medium grained.							
721.0	770.0	MATTABI FOOTWALL AGGLOMERATE Mixed acid and intermediate fragments in spots. But mainly as at 551.0-622.0. More siliceous matrix. Numerous dikes and cherty zones. 758.0-759.4: Dike as at 677.0-685.0. Much more siliceous. Not as pink. This type of dike is scattered throughout unit in 2-3" veins. 742.9-745.0: Cherty fragments - largest concentration, but similar zones are found throughout unit.							
770.0	788.0	ANDESITIC FLOW As at 622.0-661.0 amygdaloidal. A few siliceous stringers.							
	788.0	END OF HOLE							

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TO FOLLOW

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PROPERTY Sturgeon Lake
Block 7 Area 15

HOLE NO. SL-15-72-31 Page 2

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HOLE NO. SL-15-72-31 Page 3

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Page 1

PROPERTY		Sturgeon Lake Block 7 Area 15		LATITUDE		118 + 00 N		STARTED		Oct. 25, 1972		DIP TEST					
HOLE NO.		SL-15-72-33		DEPARTURE		L 28 + 00 W		FINISHED		Nov. 15, 1972		Footage	Corrected	Footage	Corrected	Footage	Corrected
BEARING		Grid South (170°)		ELEVATION		Surface		LENGTH		2009.0		100	47°00'✓	700	37°00'✓	1300	35°00'
DIP-COLLAR		-50°		SECTION		28 + 00 W		LOGGED BY		K. Huska		200	44°00'✓	800	37°00'✓	1400	35°00'
												300	42°00'✓	900	36°00'✓	1500	34°00'
												400	41°00'✓	1000	36°00'✓	1600	33°00'
												500	39°00'✓	1100	35°00'✓	1700	33°00'
												600	38°00'✓	1200	35°00'✓	1800	33°00'
																1900	33°00'
FOOTAGE				DESCRIPTION				% Microlitization		SAMPLE NO.		FOOTAGE				ASSAYS	
From	To											From	To	Length			
0	50.0			CASING (Bedrock @ 40.0')													
50.0	51.5			RHYOLITE TUFF White with green tint. Sericitized with white micaceous minerals parallel to schistosity. Odd blue quartz eye. White quartz stringer @ 50.3 - 50.5. Specks of chlorite phenocrysts in matrix.													
51.5	93.0			DACITIC MICRO AGGLOMERATE Greyish green. Grey siliceous fragments range in size from 2-40 mm. Coverage 10 mm. Fragments are subrounded and tightly packed in a green (chloritized) matrix which is more dacitic in composition than andesitic. Weathered section 68.0 - 70.0 due to ground water along fractures. Schistosity of the unit is 50° to core axis.													
93.0	138.0			RHYOLITIC MICRO AGGLOMERATE AND ANDESITIC TUFFS Grey and dark green units. Blocky with limonite staining.													
				93.0 - 94.5, 95.0 - 106.0, 130.0 - 132.0 RHYOLITE MICRO AGGLOMERATE Grey. Siliceous. Sericitized along foliation. Agglomerates tightly packed. Odd quartz-stringer.													
				94.5 - 95.0 ANDESITE TUFF, dark green, chloritized 106.0 - 130.0 ANDESITE TUFF Dark green with light grey banding. Core blocky and weathered. Banding at 60° to core axis. Some siliceous and mafic lapilli (1-2 mm). Loosely packed. Odd siliceous angular lapilli (25mm).													
				132.0 - 138.0 ANDESITE MICRO AGGLOMERATE Green, chloritized, tuffaceous at the top of the unit grading into a micro agglomerate with siliceous fragments in an andesitic matrix.													
				Lost Core: 95.5 - 97.0 101.0 - 103.0													

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Page 1

PROPERTY	Sturgeon Lake Block 7 Area 15	LATITUDE	74 + 00 North	STARTED	October 28, 1972	DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
DLE NO.	SL-15-72/34	DEPARTURE	8 + 00 West	FINISHED	November 5, 1972	100.0	49°30'	400.0	47°00'		
EARING	Grid South (170°00')	ELEVATION	Surface	LENGTH	602.0'	200.0	49°00'	500.0	47°00'		
TP-COLLAR	-50°	SECTION	8 + 00 West	LOGGED BY	A. All	300.0	49°00'	600.0	47°00'		
FOOTAGE		DESCRIPTION			% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS	
From	To						From	To	Length		
0.0	42.0	CASING Bedrock @ 36.0'									
42.0	100.0	RHYODACITIC TO RHYOLITIC TUFF Grey, fine grained, hard, siliceous, occasionally sections very fine grained to aphanitic, occasional lapilli fragments 1-5 mm in size generally. Quartz veinlets crosscutting and parallel to core axis. Occasional cherty fragments. Gradationally grades into coarse tuff to micro agglomerate.									
100.0	157.0	RHYODACITIC TO RHYOLITIC MICRO AGGLOMERATE Grey, matrix same as described in above section, generally 2-7 mm subrounded to rounded lapilli fragments moderately packed, occasionally sections of loose and very tight packing. In loosely packed sections up to 15 mm in size rounded and subrounded dirty white quartz lapilli fragments? or vesicles filled with quartz? very light chloritization. Occasionally sections very siliceous and appear as Rhyolitic tuff. Occasionally sections darker in colour with intermediate to mafic shards and lapilli. Quartz veinlets. Gradational decrease in fragmental material loose packing and more rounded quartz filled amygdalae or lapilli quartz fragments? giving it appearance of a flow towards the bottom of the unit.									
157.0	180.0	RHYODACITIC FLOW? Darker in colour than the above unit, 5-10 mm, 15-25 mm in size. Ovoid to subrounded amygdalae filled with quartz. Heavily silicified zones due to intense quartz veining. Quartz veins parallel to core axis. Very minor py associated with quartz veining. One or two Amygdalae? rimmed by very fine py.									
180.0	263.0	BRECCIA ZONE (Intermediate, Mafic and Siliceous Fragments in Siliceous Matrix) Light to medium grey occasional greenish grey, very hard, highly siliceous matrix with angular Brecciated fragments of intermediate, mafic, siliceous and cherty composition up to 35 mm in size. Light grey, grey, dirty									

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M.L.M. EXPLORATION DIVISION, D.D.H. RECORD

PROPERTY Sturgeon Lake
Block 7 Area 15

HOLE NO. SL-15-72/34

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MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

Page 1

PROPERTY	Sturgeon Lake Block 7 Area 17	LATITUDE	81 + 00 N	STARTED	November 9, 1972	DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	SL-15-72/35	DEPARTURE	8 + 00 W	FINISHED	November 15, 1972	100'	51°30'	400'	48°		
REARING	Grid South	ELEVATION	Surface	LENGTH	724.0'	200'	51°30'	500'	48°		
TP-COLLAR	-50°	SECTION	8 + 00 W	LOGGED BY	L. Stephenson	300'	48°	600'	48°		
FOOTAGE		DESCRIPTION			% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS	
From	To						From	To	Length		
0.0	14.0	CASING (Bedrock @ 7.0')									
14.0	30.8	RHYOLITIC MICRO AGGLOMERATE Light grey, aphanitic, siliceous matrix with loosely to moderately packed lapilli zones. Lapilli siliceous rimmed by chloritic material. Chloritic blebs 1-2 mm (like in following unit but not as common). Fragments 5-15 mm in moderately packed zones, the chloritic rim run together forming part of matrix. Dull texture. Lower contact @ 40°.									
		14.0 - 20.0 Very cherty rhyolitic micro-agglomerate with up to 35-40 mm fragments in siliceous & some chloritic matrix; vitreous texture mixed in parts of main unit.									
		18.8 - 18.9 Quartz vein @ 15° to core axis.									
30.8	106.4	RHYOLITIC COARSE TUFF TO MICRO AGGLOMERATE (Some Macro Aggl. Fragments) Grey, aphanitic, very siliceous, intermittent pinkish tint from 90.0 - 106.4, greenish tint due to 1-2 mm chloritic blebs gives appearance of lapilli & coarse tuff texture; blebs are rounded; some subrounded fragments 25-50 mm (Macro aggl. zone) intermediate composition, well defined fragment with chloritic blebs concentrated around rims. Colour variations in unit to darker colour give impression of contacts or foliation at 45° to core axis, a change in the concentration of mafic blebs. A few scattered 5-10 mm felsic lapilli with some chloritized rims. Unit more micro aggl. with depth; 5-10 mm loosely packed, chloritic blebs increase in size. Unit gradational to lower unit, moderately packed intermediate fragments.									
		44.0 - 45.0 inclusion of previous unit. Upper contact at 75° to core axis. Lower contact ground.									
		50.0 - 59.0 Cherty zone with large fragments of chert some pinkish tint.									
		83.3 - 83.6 siliceous vein & related zone									
		83.7 - 84.0 siliceous carbonaceous dike minor brecciation.									

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W.L.M. EXPLORATION DIVISION, D.D.H. RECORD

PROPERTY Block 7 Area 17

MOLE NO. SL-15-72/35 Page 5

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MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

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MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - JIAMOND DRILL HOLE RECORD

Page 1

PROPERTY												Sturgeon Lake Block "7" Area "15"												LATITUDE												136 + 00 N												STARTED												January 9, 1973												DIP TEST																																																																																																											
HOLE NO.												SL-15-73/41												DEPARTURE												44 + 00 W												FINISHED												February 1, 1973												Footage												Corrected												Footage												Corrected												Footage												Corrected																																															
BEARING												Grid South (170°)												ELEVATION												Surface												LENGTH												1861.0												100												57° ✓												700												45° ✓												1300												36° ✓																																															
DIP-COLLAR												-60°												SECTION												48 + 00 W												LOGGED BY												K. Huska												200												55° ✓												800												44° ✓												1400												35° ✓																																															
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FOOTAGE																								DESCRIPTION												% Mineralization												SAMPLE NO.												FOOTAGE																								ASSAYS																																																																																															
From												To																																																From												To												Length																																																																																															
0												32.0												CASING																																																																																																																																																											
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32.0												773.0												ANDESITE FLOW																																																																																																																																																											
																								Dark green. Intermediate in composition. Medium grained.																																																																																																																																																											
																								Numerous pink quartz-carbonate stringers with zoning patterns.																																																																																																																																																											
																								Schistosity absent to poor (35° to C.A.)																																																																																																																																																											
																								32.0 - 48.0, 53.0 - 65.0												CHLORITIZED CARBONACEOUS																																																																																																																																															
																								169.0 - 175.0, 178.0 - 180.5												RHYOLITE DIKES																																																																																																																																															
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																								194.0 - 361.0												Amygdaloidal. Numerous amygdalae																																																																																																																																															
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																								composed of quartz.																																																																																																																																																											
																								202.0 - 210.0												Breccia (Flow ?)																																																																																																																																															
																								Angular intermediate fragments welded																																																																																																																																																											
																								together with distinct chloritic rims.																																																																																																																																																											
																								417.0 - 447.0												Porphyritic Dike																																																																																																																																															
																								Very coarse grained with visible quartz																																																																																																																																																											
																								phenocrysts 1-2 mm set in a green																																																																																																																																																											
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																								stringers 1-2 inches wide. Sharp																																																																																																																																																											
																								contacts. Blue quartz eyes.																																																																																																																																																											
																								641.0 - 649.6												Silicified zone.																																																																																																																																															
																								666.0 - 672.0												Amygdaloidal																																																																																																																																															
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773.0												782.5												MAFIC DIKE																																																																																																																																																											
																								Grey-green. Coarse grained. Sharp contacts at 70-80° to C.A.																																																																																																																																																											
																								Contains quartz-carbonate stringers. Chill margins. Visible feldspar																																																																																																																																																											

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			Ag	Ag	ANALYSIS		
From	To				From	To	Length			Zn	Cu	Pb
		(< 1 mm) and mafic minerals giving the core a coarse grained texture. Ground Core: 775.0 - 779.0.										
782.5	799.0	RHYOLITE MICRO TO MACRO AGGLOMERATE Grey with green tint. Siliceous. Fragments range in size from 10-60 mm and are loose to tightly packed. Tuffaceous matrix between the fragments.		22101	783.0	786.0	3.0	nil	tr	.01		
				22102	786.0	789.0	3.0	nil	tr	.01		
				22103	789.0	792.0	3.0	nil	tr	.01		
				22104	792.0	795.0	3.0	nil	tr	.01		
				22105	795.0	799.0	4.0	nil	tr	.01		
799.0	804.2	ANDESITE DIKE Dark green. Intermediate in composition with sharp contacts.										
804.2	831.8	RHYOLITE TUFFS AND AGGLOMERATES Dark grey with purplish tint. Grey siliceous fragments 30-40 mm and very loosely packed. Py-po blebs with trace sph - cpy. Schistosity at 55° to C.A. Lower contact at 68° to C.A. Lost Core: 825 - 827.0.	1 py-po, tr, sph 1-2 py-po, tr, sph 1 py-po, tr, sph 1-2 py-po, tr, sph	24201 24202 24203 24204	805.0 810.0 815.0 820.0	810.0 815.0 820.0 825.0	5.0 5.0 5.0 5.0	nil nil nil nil	.1 .1 .1 nil	.01 .03 nil nil		
			< 1 py-po	24205	825.0	827.0	2.0	nil	nil	nil		
831.8	834.7	SILICEOUS GRAPHITIC TUFF Dark grey-black. Schistosity at 55° to C.A. Lower contact gradational.	< 1 py-po	24206	832.0	837.0	5.0	nil	nil	nil		
834.7	838.5	RHYOLITE MICRO AGGLOMERATE Dark grey. Siliceous. Fine tuff at the top of the unit grading into a micro agglomerate at the base of the unit. The fragments are grey, siliceous and stretched along the schistosity at 55° to C.A. Trace specks of py-po.	1-2 py-po, tr, sph	24207	837.0	841.0	4.0	nil	nil	.01		
838.5	848.0	GRAPHITIC TUFF Black with banding at 70° to C.A. Trace py-po. (1%)	< 1 po	24208	841.0	847.0	6.0	nil	nil	nil		
848.0	856.8	RHYOLITE TUFF Grey. Siliceous. Grey fragments 2 - < 1 mm and also graphitic fragments (subangular).	1 py-po 1 py-po	24209 24210	847.0 852.0	852.0 857.0	5.0 5.0	nil nil	nil nil	nil nil		
856.8	871.0	GRAPHITIC TUFF Black. Graphitic units intermixed with grey-black siliceous graphitic units. Py-po 1% with trace sph in quartz veinlets.	1 po 1 po 1 py-po	24211 24212 24213	857.0 862.0 867.0	862.0 867.0 872.0	5.0 5.0 5.0	nil nil nil	nil .1 nil	nil nil nil		
871.0	901.0	RHYOLITE MICRO AGGLOMERATE Grey. Siliceous. Tuffaceous at the top of the unit grading into a micro agglomerate at the base. The fragments range in size from < 1 mm (top of unit) to 30 mm at the base. Fragments are light grey and set in a darker grey siliceous matrix. 1-2% py-po.	< 1 py-po 1 py-po, tr, sph 1 py-po 1-2 py-po	24214 24215 24216 24217	872.0 877.0 882.0 887.0	877.0 882.0 887.0 892.0	5.0 5.0 5.0 5.0	nil nil nil nil	nil nil nil nil	nil nil nil nil		

MOLE NO. SL-15-73/41 P. 3

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FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Av	Ag	Zn	Cu	Pb
1095.0	1196.0	RHYODACITE-DACITE FLOW Dark grey with greenish tint toward the bottom of the unit. Still fairly siliceous. Massive in appearance. Odd amygdale at the top of the unit. Fine to medium grained.										
		1163.0 - 1164.0 Chl. Carb. Rhy. dike										
1196.0	1297.0	DACITIC FLOW Dark grey-green. Very massive. Upper contact very sharp. No apparent schistosity. Brecciated at 1268.6 - 1269.6.										
1297.0	1301.0	RHYODACITIC TUFF Grey with green tint. Fine tuff. Massive appearance. Silicified. Possibly represents an altered zone between the above unit (Flow) and the underlying unit (Tuff).										
1301.0	1303.0	RHYOLITE TUFF Grey. Siliceous. Banded. Trace py-po.	1-2 py-po	24222	1301.0	1303.0	2.0	nil	nil	.09		
1303.0	1307.0	CHLORITIZED CARBONACEOUS RHYOLITE DIKE Greenish yellow. Mafic flakes (chlorite) parallel schistosity. Chill margins at contacts. Nil sulfides.	Nil	24223	1303.0	1307.0	4.0	nil	Tr.	.02		
1307.0	1311.0	GRAPHITIC TUFF Black. Banded at 80° to C.A. 3-5% py-po. Trace sph-cpy.	<1 cpy. <1 sph. 2-5 py-po	24224	1307.0	1312.2	5.2	nil	nil	.1	.02	.01
1311.0	1322.5	RHYOLITE TUFF Creamy yellow to grey. Banded at 80° to C.A. Cherty in places. 2-5% py-po. Traces of sph-cpy.	Nil	24225	1312.2	1316.8	4.6	nil	nil	nil		
		1312.2 - 1316.8 Mafic dike Dark grey-green. Medium grained. Sharp contacts. Nil sulfides.	2-3 py-po. tr. cpy. sph	24226	1316.8	1320.0	3.2	nil	nil	nil	.01	.01
				Lost Core	1320.0 - 1321.0							
1322.5	1346.0	O.E. RHYOLITE TUFF Creamy-yellow to white. Blue quartz eyes 1 mm in diameter. Trace py-po. Sericitized.	3-5 py-po. tr. cpy. sph	24227	1321.0	1322.5	1.5	nil	nil	.2	.03	.01
		1323.0 - 1328.5 Acid Dike	Nil	24228	1322.5	1328.5	6.0	nil	nil	nil		
		Grey. Very coarse grained. Nil sulfides.	<1 py-po	24229	1328.5	1333.5	5.0	nil	nil	nil		
		Contacts sharp and at 85° to C.A. Q.E.	<1 py-po	24230	1333.5	1338.5	5.0	nil	nil	nil		
		rhyolite tuff at both contacts.	<1 py-po	24231	1338.5	1343.5	5.0	nil	nil	nil		
				24232	1343.5	1346.0	2.5	nil	Tr.	nil		

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Au	Ag	Zn	Cu	Pb
1346.0	1364.8	CHLORITIZED Q.E. RHYOLITE TUFF Dark green. Highly chloritized. Blue quartz eyes. 1-2 mm in diameter. 2-5% py-po + magnetite.	2-3py-potmag. 2-3py-po-mag. 20-90py-po, tr. cpy, sph 2-3py-po, tr. cpy, sph 1-2py-po, tr. sph 1-2py-po, tr. sph	24233 24234 24235 24236 24237 24238	1346.0	1351.0	5.0		nil	.1	.01	
					1351.0	1357.0	6.0		nil	.1	.01	
					1357.0	1357.8	0.8	.004	.76	1.6	.72	.18
					1357.8	1358.6	0.8	.004	.05	.2	.19	.04
					1358.6	1362.0	3.4	nil	nil	.1	.02	.03
					1362.0	1364.8	2.8	nil	nil	.1	.03	.02
		1357.0 - 1364.8 2-3% py-po, trace, sph.	Nil	24239	1364.8	1369.8	5.0		nil	nil	.01	
1364.8	1472.0	QUARTZ EYE RHYOLITE TUFF Creamy white becoming grey at 1416.0. Quartz (10-15%) eyes are white and some have a blue tint. Odd siliceous fragment 2-4 mm and stretched along the schistosity at 70° to core axis. Sericitized along schistosity planes. From 1416.0 - 1472.0 unit becomes grey with 10-15% quartz eyes.										
1472.0	1503.0	Q.E. RHYOLITE MACRO AGGLOMERATE Grey-green. Slightly chloritized. Grey siliceous fragments > 30 mm moderately packed and set in a chloritized matrix. Quartz eyes 20-30%. 1-2 mm in diameter, and found in both fragments and matrix.	Nil Nil Nil	24240 24241 24242	1488.0	1493.0	5.0		nil	nil	.01	
					1493.0	1498.0	5.0		nil	nil	nil	
					1498.0	1503.0	5.0		nil	.1	.02	
1503.0	1529.0	CHERTY RHYOLITE TUFF Grey. Siliceous. Cherty looking with banding at 85° to core axis. No quartz eyes. Odd siliceous fragments 10-25 mm. Sulfides: 1503 - 1516. 5-10% py, trace, cpy.	1 py tr. cpy, tr. sph, 1-2py 1py, tr. cpy, sph 10py, 1cpy, sph 1 py Nil Nil Nil	24243 24244 24245 24246 24247 24248 24249 24250	1503.0	1504.0	1.0		nil	.2	.02	
					1504.0	1505.9	1.9	.004	nil	.4	.05	.05
					1505.5	1509.5	4.0	nil	nil	.7	.06	.03
					1509.5	1511.0	1.5	.004	.47	1.7	.21	nil
					1511.0	1516.0	5.0		.11	.1	.02	
					1516.0	1521.0	5.0		nil	.1	.02	
					1521.0	1526.0	5.0		nil	.1	nil	
					1526.0	1531.0	5.0		nil	.1	nil	
1529.0	1558.0	Q.E. RHYOLITE TUFF Grey. Siliceous. Quartz eyes < 1 mm. Odd siliceous fragment but mostly fine to coarse tufts with minor cherty bands at the top of the unit.	Nil < 1 py 5 py 1-2 py 1-2 py, < 1 sph 2-3py, < 1 sph 5-10 py, < 1 sph	24251 24252 24253 24254 24255 24256 24257	1531.0	1536.0	5.0		nil	.1	nil	
					1536.0	1541.0	5.0		nil	.1	nil	
					1541.0	1546.0	5.0		nil	.2	.01	
		1531.0 - 1535.0 Intermediate Dike			1546.0	1550.0	4.0		nil	.1	nil	
		Green. Euhedral pyrite crystals.			1550.0	1555.0	5.0	nil	nil	1.0	nil	nil
		Coarse grained. Sharp contacts.			1555.0	1560.0	5.0	nil	.05	1.4	nil	Tr.
					1560.0	1564.5	4.5	nil	.11	.2	nil	.02
		Sulfides: 1550.5 - 1558.0 5-10% disseminated pyrite with traces of sphalerite.										
1558.0	1692.0	RHYOLITE MICRO-MACRO AGGLOMERATE White to dark grey. Siliceous. Agglomerates range in size from 10 - 60 mm. Some are welded together and make it difficult to recognize their shape. Most are tightly packed, subrounded grey and siliceous. Sulfides contain fragments. Semi-massive sulfides are found as sporadic lenses with disseminated sulfides between. Quartz eyes (< 1%) and 1 mm in diameter. Occasional	2-5sph, 1-2py 5 py, tr. sph 5 sph, 20 py 10py, 3-4sph, < 1 gal, 2 sph, 10-15py 1-2sph, < 1gal, 10-15 py 10 sph, 20py 2-3 py 2-5 sph 2-5 py	24258 24259 24260 24261 24262 24263 24264 24265 24266 24267	1564.5	1566.0	1.5	.004	.23	5.5	.02	.03
					1566.0	1567.6	1.6	nil	.11	.5	.01	.01
					1567.6	1569.6	2.0	.007	.34	6.9	.04	.09
					1569.6	1571.8	2.2	.005	2.51	3.6	nil	.49
					1571.8	1576.8	5.0	.004	.23	3.0	.01	.03
					1576.8	1579.6	2.8	.005	1.87	4.0	.01	.29
					1579.6	1580.6	1.0	.005	.17	12.0	.01	.12
					1580.6	1585.6	5.0	nil	nil	.1	.03	.01
					1585.6	1590.6	5.0	nil	nil	.1	nil	nil
					1590.6	1595.6	5.0	nil	.82	.1	nil	nil

PROPERTY **Sturgeon Lake**
Block "7" Area "15" HOLE NO. **5L-15-73/41** Page **6**

FOOTAGE		DESCRIPTION	%	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	An	Ag	Zn	Cu	Pb
		banding at 85° to C.A. Sharp basal contact at 55° to C.A. The sphalerite in this hole is honey-coloured (Low Iron content).	2-5 py	24268	1595.6	1600.6	5.0	nil	.11	.1	nil	.01
		1688.0 - 1692.0 Welded Rhy. Aggl.	5 py	24269	1600.6	1605.0	4.4	nil	.41	.2	nil	.06
		White, Siliceous. Fragments welded together. Average size 20 mm.	30-47 py	24270	1605.0	1609.8	4.8	nil	.47	.1	.01	.08
			5-10 py	24271	1609.8	1615.0	5.2	.004	.17	.1	.01	.03
			2 py	24272	1615.0	1620.0	5.0	nil	.11	.1	nil	.01
			2-5 py, < 1 sph	24273	1620.0	1625.0	5.0	.004	.76	.2	nil	.17
		1651.4 - 1653.5 Fractures and quartz stringers containing sph and galena	2-5 py, < 1 sph	24274	1625.0	1630.0	5.0	nil	.17	.1	nil	nil
			2-3 py	24275	1630.0	1635.0	5.0	.004	.35	.2	.01	.04
			2-3 py	24276	1635.0	1640.0	5.0	.004	.11	.5	.01	.06
			2-3 py	24277	1640.0	1641.2	1.2	.004	.76	.5	nil	.14
		Sulfides: Zinc zones: 1550.0 - 1580.6	< 1 sph, 30-40 py	24278	1641.2	1643.2	2.0	.006	.35	1.9	.02	.12
		1620.0 - 1630.0	5 py	24279	1643.2	1647.5	4.3	.006	.11	.7	.01	.05
		Zinc - Copper Zone: 1647.5 - 1658.5.	5-10 py, tr. cpy.	24280	1647.5	1649.5	2.0	.006	.17	.6	.09	.06
			tr. sph									
			20-30 py, 1-2 cpy.	24281	1649.5	1651.4	1.9	.006	1.56	1.5	.65	.24
			1 sph									
			2-3 sph, < 1 gal.	24282	1651.4	1653.5	2.1	.004	.93	4.2	.05	.63
			tr. cpy									
		1663.0 - 1664.3 Acid dike	5 py, 1 sph	24283	1653.5	1658.5	5.0	.004	.17	.6	.01	.14
			10-15 py	24284	1658.5	1663.0	4.5	.004	.11	.3	.01	.10
			Nil	24285	1663.0	1664.3	1.3		nil	.1	.01	
			5 py	24286	1664.3	1669.3	5.0	nil	nil	.7	.01	.03
		1669.3 - 1674.3 Acid dike	Nil	24287	1669.3	1674.3	5.0		nil	nil	.01	
			1 py	24288	1674.3	1679.3	5.0		nil	nil	nil	
			2-5 py	24289	1679.3	1684.3	5.0		nil	nil	nil	
			2-3 py	24290	1684.3	1689.3	5.0		nil	nil	nil	
			Nil	24291	1689.3	1692.0	2.7		nil	nil	nil	
1692.0	1734.0	DACITE-ANDESITE										
		Dark grey-green. Medium grained. Homogeneous. Very massive looking and becoming siliceous towards the base of the unit. Quartz-carb. stringers at upper contact.	Nil	24292	1692.0	1697.0	5.0		nil	nil	nil	
			Nil	24293	1697.0	1702.0	5.0		nil	nil	nil	
1734.0	1769.0	RHYODACITE-RHYOLITE										
		Grey. Siliceous. Massive. No apparent schistosity. 10-15% specks of chlorite. No amygdalae or fragments. Odd quartz stringer. Unit grades into upper and lower units. Possible zoning in Andesite-Dacite Unit.										
1769.0	1861.0	DACITE-ANDESITE										
		Green to dark grey green. Massive. Numerous quartz stringers 1/4 - 1 inch wide. Coarse grained at 1834 to E.O.H. 10-15% specks of chlorite. This unit is lighter in colour than the Andesite in SL-15-72/39 which is darker green.										
	1861.0	END OF HOLE										

MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

Page 1

PROPERTY	Sturgeon Lake Block '7' Area '15'	LATITUDE	132 ± 00 N	STARTED	February 1, 1973	DIP TEST										
OLE NO.	SL-15-73-45	DEPARTURE	32 ± 00 W	FINISHED	February 28, 1973	Footage	Corrected	Footage	Corrected	Footage	Corrected					
EARING	Grid South 170°	ELEVATION	Lake Surface	LENGTH	1645.0'	100	52°✓	700	33°30'✓	1300	18°					
IP-COLLAR	-50°	SECTION	32 ± 00 W	LOGGED BY	K. Huska	200	50°✓	800	29°✓	1400	18°					
						300	47°30'✓	900	26°30'✓	1500	17°30'					
						400	43°✓	1000	24°✓	1600	17°					
						500	41°✓	1100	20°✓							
						600	35°✓	1200	18°✓							
FOOTAGE		DESCRIPTION				%	SAMPLE	FOOTAGE			ASSAYS					
From	To					Mineralization	NO.	From	To	Length	Au	Ag	Zn	Cu	Pb	
0	52.0	CASING (Water Depth 27.0' Vert.)														
52.0	596.0	ANDESITE FLOW Green - dark green. Dacitic (grey-green) at 52.0 - 58.0. Massive. Odd quartz carbonate stringer. Mafic flakes (chlorite) 1 mm long are parallel to schistosity at 30° to G.A. Amygdaloidal in places (at 280.0 - 282.0). Numerous quartz-carb. stringers from 298.0 - 325.0. Trace magnetite at 442.0. Blocky from 234.0 - 253.0 with limonite staining. Ground Core: 170.0 - 171.0 181.0 - 183.0 244.0 - 249.0														
596.0	633.0	RHYOLITE MICRO AGGLOMERATE Gray with greenish tint due to slight chloritization. Siliceous fragments 25-30 mm, subrounded, and loosely packed. Contact zone 596.0 - 599.0 mixed and altered. Light greenish yellow Rhyolite at 630.0 - 633.0. 599.4 - 604.4 Intermediate dike Dark grey-green. Sharp contacts.														
633.0	812.5	RHYOLITE MICRO TO MACRO AGGLOMERATE Green to dark grey. Highly chloritized at 633.0 but decrease in chloritization at 649.0 and grading into grey Rhy. Aggl. Fragments range in size from 5-30 mm, grey and white, subrounded to subangular and set in a green and dark grey matrix depending on the degree of chloritization. Intermediate dike from 779.0 - 780.5. 752.0 - 754.0 } 739.0 - 741.0 } Ground Core Intermediate dike at 779.0 - 780.5. Porphyritic dike at 803.0 - 812.5 Dark grey-green. Coarse grained in the center and fine grained at contacts which are sharp. Rhyodacitic to Dacitic in				1 Py Nil 1 Py	20001 20002 20003	741.0 746.0 751.0	746.0 751.0 752.0	5.0 5.0 1.0		nil nil nil	nil nil nil	nil nil nil		
						1-2 Py 1-2 Py	20004 20005	752.0 754.0	754.0 759.0	2.0 5.0	Ground Core	nil nil	nil nil	nil nil		

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Au	Ag	Zn	Cu	Pb
		composition, Lower contact is similar to a chloritized Carb. Rhy. dike.	1-2 Py	20006	764.0	769.0	5.0		nil	nil	nil	
			1-2 Py	20007	769.0	774.0	5.0		nil	nil	.01	
			1-2 Py	20008	774.0	779.0	5.0		nil	nil	nil	
			< 1 Py	20009	779.0	784.0	5.0		nil	nil	nil	
			1-2 Py	20010	784.0	789.0	5.0		nil	nil	nil	
			2-3 Py	20011	789.0	794.0	5.0		nil	nil	nil	
812.5	818.5	CHLORITIZED RHYOLITE MICRO TO MACRO AGGLOMERATE	1-2 Py	20012	794.0	799.0	5.0		nil	nil	nil	
		Dark green. Highly Chloritized. Loosely packed fragments	5 Py	20013	799.0	802.0	3.0		nil	nil	.03	
		5-50 mm. grey, siliceous and set in a dark-green matrix.	Nil	20014	802.0	807.0	5.0		nil	nil	nil	
		5-10% disseminated Py in matrix around the fragments. Quartz-carb. stringer at 814.0.	Nil	20015	807.0	812.0	5.0		nil	nil	nil	
			5 Py	20016	812.0	816.0	4.0		nil	nil	.04	
			5-10 Py	20017	816.0	819.0	3.0		nil	nil	.02	
818.5	833.0	RHYOLITE MICRO AGGLOMERATE	2-3 Py	20018	819.0	824.0	5.0		nil	nil	nil	
		Dark grey. Siliceous. Fragments range in size from 2-20 mm.	2-3 Py	20019	824.0	829.0	5.0		nil	nil	nil	
		grey and yellow siliceous fragments. Moderately packed. Slightly chloritized. 2-3% disseminated Py in matrix. Tourmaline associated with Pyrite.	Nil	20020	829.0	833.0	4.0		nil	nil	nil	
833.0	904.0	RHYOLITE TUFFS AND AGGLOMERATES										
		Dark grey to gray. Siliceous. Tuffaceous section at 833.0 - 838.0 grading into agglomerates. Occasional banding at 60° to C.A.										
		< 1% Py. Fragments are white, yellow, and grey, 5-15 mm in size, siliceous and difficult to segregate from sporadic yellow banding.										
		Intermediate dike at 854.0 - 862.5										
		Numerous quartz - carbonate stringers from 862.0 - 881.0.										
904.0	993.0	RHYOLITE MICRO AGGLOMERATE										
		Grey to yellowish white. Siliceous. Two types of fragments present: 1.) Yellowish white, 5-20 mm loosely packed and subrounded. 2.) Black to dark grey, angular to subangular, 2-10 mm, and moderately packed. Nil sulfides. Schistosity at 80° to C.A.										
		Chloritized Carb. Rhy. dike at 936.0 - 937.0.										
993.0	1278.0	DACITE										
		Dark grey-green. Fine to medium grained. Trace stringers (1 mm) of magnetite throughout the core. Quartz-carbonate stringers. Sharp basal contact at 90° to C.A. Rhyodacitic at 1121 - 1128.0 but only represents a siliceous zone in this unit.										
1278.0	1417.0	RHYOLITE MICRO AGGLOMERATE	2-5 Py	20021	1303.0	1308.0	5.0		nil	nil	nil	
		White to grey in colour. Siliceous. Fragments are 10-20 mm, grey, siliceous, white, subrounded and moderately to tightly packed. Some sections appear welded. 1-2% specks of chloritoid spotting the schistosity planes. Odd blue quartz eye. 2-5% disseminated pyrite in sporadic sections. Sharp basal contact.	2-3 Py	20022	1348.0	1353.0	5.0		nil	nil	nil	
			1 Py	20023	1353.0	1358.0	5.0		nil	nil	nil	
			5 Py	20024	1358.0	1363.0	5.0		nil	nil	nil	
			Nil	20025	1363.0	1368.0	5.0		nil	nil	.07	
			1 Py	20026	1368.0	1373.0	5.0		nil	nil	.02	
			2-3 Py	20027	1373.0	1378.0	5.0		nil	nil	.01	

[illegible]

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Au	Ag	Zn	Cu	Pb
60.0	92.8	RHYOLITIC TUFF (COARSE WITH DEPTH) Light grey white with pinkish tint; nil to bleb chloritization (60.0 - 78.6); light to moderate homogeneous chloritization (78.6 - 92.8), also latter zone has some 3-6 mm subrounded to rounded felsic lapilli (amygdules??) mainly in last 5.0' - coarse tuff. Some colour difference: light grey, pinkish tinted zones; occasional qtz. carb. stringer & chloritic stringers.										
92.8	200.0	QUARTZ EYE RHYOLITIC TUFF Massive, tr. of foliation at 25° to C.A.; grey occasionally tinted green; fine grained to aphanitic, very tuffaceous, some coarse tuff appearance; chloritized nil to light; occasional 2-5 mm subrounded to rounded felsic qtz. carb. fragments (amygdules?) also 2-5 mm clear qtz. eyes subrounded; at 168.0 qtz. carb. filled or partially filled vesicles & amygdulose? very siliceous, carbonaceous. Light to moderate, coarser tuff with depth. 92.8 - 99.0 pinkish tint with mafics forming blebs. 99.0 - 191.0 CHLOR. CARB. RHY. DIKE. Foliation at 40° to C.A. Medium grained. Grey. Contacts at 40° to C.A. Chloritization & carbonatization - light to moderate. 192.0 - 200.0 Moderate to heavy chloritization with some 5-15 mm lapilli or fragment (breccia) 197.4 - 197.7 small none carb. & chlor. fragments & matrix. Some <1 mm vesicles. Some filled with py others mt. holes (vesicles) where mt. weathered out.										
200.0	210.0	CREAMY RHYOLITIC MICRO AGGLOMERATE Nil chloritization; creamy white siliceous lapilli 5-15 mm in carb. and silic. matrix; foliation at 30° to C.A. Very micro aggl. Some cherty tuffaceous parts (Brecciated tuff in part?), aphanitic.										
210.0	255.0	CREAMY RHYOLITIC TUFF Creamy white to creamy pink (at 234.0 - 253.0), variation in intensity of pinkish colour; aphanitic; some qtz. eyes and felsic blebs (qtz. & carb.?). Foliation at 30° to C.A. Very tuffaceous with some fragments & stringers due to brecciation. Pinkish colour gives appearance of stringers & micro aggl. but unit massive - colour effect (as at 92.8 - 200.0) last 3.0' light to moder. chlor. 228.0 - 252.0 stringers & blebs of py, po, 2-3% overall. Ground Core: 211.5 - 212.5; 218.0 - 219.0; 227.0 - 228.0; 234.0 - 235.0; 237.5 - 238.5; 254.0 - 255.0.	1-2 Py. Po 1 Py. Po 7-8 Py. Po 2-3 Py. Po 2-4 Py. Po	38695 38696 38697 38698 38699	227.0 228.0 234.0 235.0 237.5 238.5 243.5 249.0 254.0	228.0 234.0 235.0 237.5 238.5 243.5 249.0 254.0	1.0 6.0 1.0 2.5 1.0 5.0 5.5 5.0 1.0	LOST CORE nil LOST CORE nil LOST CORE nil nil nil LOST CORE	nil nil nil nil nil nil nil nil nil	nil nil nil nil nil nil nil nil nil		
255.0	291.8	BRECCIATED RHYOLITIC TUFF & MICRO AGGLOMERATE Tuffaceous, similar to previous unit, very broken core, in part as at first part of hole (34.0 - 49.0) nil to moderate chloritization; some pink staining. Lapilli 3-15 mm subrounded to subangular, some brecciation with siliceous & chloritic matrix; cherty, very tuffaceous to very micro aggl. Last part of unit more chlor. Micro aggl. & tuffs very rhyolitic brecciated.	1 Py. Po Nil	38700 24294	255.0 256.0 257.0	256.0 257.0 262.0	1.0 1.0 5.0	LOST CORE LOST CORE LOST CORE	nil nil nil	nil nil nil	nil nil nil	

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FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Ag	Ag	Zn	Cu	Pb
235.0	1243.5	ACID DIKE Fine to medium grained; grey, upper contact at 70° to C.A. Sharp. Lower contact ground. Homogeneous except at 1235.4 - 1236.0 where a minor zone of carb. & silic. amygdules (or lapilli) occur with irregular contacts at 60° to C.A.; unit is lightly to moderately chloritized and carbonatized; medium to coarse texture; fine grained at contacts, Chill margins.										
243.5	1251.0	CARBONACEOUS RHYOLITIC MICRO AGGLOMERATE Grey-bluish to creamy; aphanitic, very siliceous; moderately heavily carbonatized; lightly chloritized; 2-7 mm subrounded to rounded carbonaceous lapilli (some appearance as amygdules?) 1% disseminated po & py, Carb. & silic. stringer at 1250.6 with 1-2% Sph. (Part of following unit but more carbonaceous agglomeratic).	1 Py, Po 1-2 Py, Po. 1 Sph	38476 38477	1243.7 1248.7	1248.7 1253.7	5.0 5.0		nil	nil	nil	nil
251.0	1278.0	RHYOLITIC TUFF Grey to bluish grey, very siliceous, aphanitic; numerous carbonaceous (mainly) & siliceous blebs (lapilli?) up to 25 mm. Some zones of 2-5 mm blebs near top of unit; lightly to moderately heavily (in parts) carb. moderately chloritized (graphitic?) towards bottom of unit. 1253.0 - 1253.5 minor brecciated carbonaceous zone 2% Sph 1261.5 - 1263.2 Med. grained Acid carb. Dike. Light, creamy, brownish green. Moderately to lightly chlor. Moderately heavily carb. Lower contact at 50° to C.A. Upper - ground. 1270.0 - 1271.0 As at 1253.0 - 1253.5. Less brecciated and less sulphides. Foliation in rock before this zone at 80° to C.A. 1271.0 - 1272.0 1-2% disseminated blebs of Po, < 1% Cp, Tr, Sph.	1 Py, Po, 1 Sph 1 Py, Po, Tr. - < 1 Cp - < 1 Py, Po 1-2 Py, Po, Tr. Sph, Tr, Cp 1 Py, Po	38478 38479 38480 38481 38482	1253.7 1258.7 1263.7 1268.7 1273.8	1258.7 1263.7 1268.7 1273.8 1279.4	5.0 5.0 5.0 5.1 5.6		nil	nil	.04 nil nil nil nil	
278.0	1282.0	GRAPHITIC RHYOLITIC TUFF As at 1209.0 - 1235.0 with minor graphitic bands at 1280.6 - 1281.0 which has 5-6% Po, 1-2% Sph in stringers & blebs (Sph mainly associated with a qtz. carb. stringer in the middle of the graphite band).	2-3 Po, 1 Sph	38483	1279.4	1282.4	3.0		nil	Tr.	nil	nil
282.0	1287.0	CARBONACEOUS RHYOLITIC TUFF (INTRUSIVE? OR ALTERATION ZONE) Fine to medium grained; grey; very siliceous; moderately heavily carbonatized; lightly to moderately chloritized (a bit rhodac.) carb. alteration zone? similar to previous zones. (1126.5 - 1134.5) very tuffaceous - altered Rhy. tuff. Contacts at 85° to C.A. Lower in part gradational.	1 Po	38484	1282.4	1287.0	5.0			nil	nil	
287.0	1300.5	GRAPHITIC RHYOLITIC TUFF TO SILICEOUS GRAPHITIC TUFF Similar to unit at 1209.0 - 1235.0 with a very siliceous graphitic tuff band at 1293.5 - 1298.0. Bands not well defined. Very siliceous & Rhy. Very graphitic; bedding at 70° to C.A. 1288.4 - 1289.0 Silic. qtz. & carb. zone (dike) with 2-3% Py, 1-2% Sph, < 1% Po, < 1% Cp.	2-3 Py, 1 Po 1 Sph, < 1 Cp	38485	1287.4	1290.9	3.5		nil	.1	.02	nil

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Ag	Ap	Zn	Cu	Pb
		numerous smaller stringers (qtz. & carb.) with Tr-1% Sph associated with them.	2-3 Py, Po, <1 Sph	38486	1290.9	1295.9	5.0		nil	nil	nil	
		Carb. zones as at 1282.0 - 1287; at 1290.8 - 1293.5 ground contacts weakly graphitic	1 Py, Po, <1 Sph	38487	1295.9	1300.9	5.0		nil	Tr.	nil	
		and at 1298.0 - 1300.0 lower contact at 85°. Foliation at 60° to C.A. Heavily carb. Light colour.										
1300.5	1329.7	CARBONACEOUS RHYODACITIC TUFF (CHLOR. RHY. TUFF) Bluish grey; fine grained; moderately to heavily (in part) carb.; numerous carb. & silic. stringers, blebs & zones moderately to moderately heavily chloritized; massive, very tuffaceous (intrusive?) top 3-4'. Some graphitic (chloritic?) stringers and minor graphitic bands 2-50 mm.	Nil	38488	1300.9	1305.9	5.0		nil	nil	nil	
			1-2 Po, Py	38489	1324.2	1329.2	5.0		nil	nil	nil	
1329.7	1335.6	RHYOLITIC MICRO AGGLOMERATE Aphanitic; light grey to grey; very siliceous; lightly to moderately chloritized; moderately carb.; 10-35 mm subangular to angular siliceous lapilli in silic. chlor. & carb. matrix. Overall stringers of Po 5%, Tr. Cp. 1332.0 - 1332.7 moderately to heavily carb. zone. Barren of sulphides. 1333.5 - 1334.7 Semi Massive Sulphides. 45% Po, 1% Cp. Sulphides form matrix for felsic lapilli.	3-5 Po, <1 Py, Tr- <1 Cp	38490	1329.2	1332.9	3.7		nil	nil	nil	
			25 Po, 2-3 Py, 1 Cp	38491	1332.9	1335.5	2.6		nil	nil	.01	nil
1335.6	1385.0	RHYODACITIC TO DACITIC FLOW Bluish grey, fine to medium grained; moderately chloritized; few distinct carbonaceous zones; lightly to moderately carbonatized, numerous qtz. & carb. filled amygdulae, rounded to subrounded; weakly pancaked at 75° - 85° to C.A.; small < 1 mm clear (dark) qtz. grains (or "eyes") more distinct from 1345.0 - 1385.0. More dacitic with depth; massive.	1 Po Nil	38492 38493	1335.5 1340.5	1340.5 1345.5	5.0 5.0		nil	nil	nil	
1385.0	1517.0	DACITIC FLOW/TUFF As at 1335.6 - 1385.0 but more greenish colour in part and with few amygdulae (occasional amygdulae throughout) massive; tuffaceous, more amygdulae (still < 1%) from 1492.0 - 1517.0 also some 1-2 mm felsic lapilli. 1494.0 - 1494.7 CARB. & CHLOR. ACID DIKE with 10 mm. Carbonaceous chill zones at contacts, at 70° to C.A. Greenish grey & creamy grey, fine to medium grained, Massive with some weak foliation at 70° to C.A. (very weak foliation at 70° to C.A.) 1509.8 - 1510.0 as at 1494.0 - 1494.7. Ground Core: 1388.5 - 1389.5.										
1517.0	1520.7	CARBONACEOUS AND CHLORITIZED ACID DIKE As at 1494.0 - 1494.7 more greyish & medium grained; contacts at 80° to C.A. Chill zones 15-20 mm. 1% disseminated Py & Po.	1-2 Py	38494	1515.2	1520.2	5.0		nil	nil	nil	

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Au	Ag	Zn	Cu	Pb
1520.7	1522.7	CHERTY RHYOLITIC TUFF White to light grey; aphanitic, very siliceous, cherty; nil to light chloritization; light to moderate carbonatization and sericitization. Upper contact at 80°. Lower-ground. Traces of bedding at 80° to C.A. Stringers & some disseminated sulphides - 2-3% Po, 1-2% Py, Tr, Cp & Sph.	2-3Po, 1-2 Py, tr, sph & Tr, Cp	38495	1520.2	1522.7	2.5		nil	nil	nil	nil
1522.7	1526.4	CHLORITIZED ACID DIKE Medium grained; greenish grey; massive; texturally similar to dike at 1517.0 - 1520.7 but not carbonaceous. Ground contacts. 1-2% disseminated Py, Po.	1-2Py & Po	38496	1522.7	1526.4	3.7		nil	nil	nil	
1526.4	1531.5	CHERTY RHYOLITIC TUFF As at 1520.7 - 1522.7 with a siliceous graphitic tuff band at 1528.6 - 1529.6; lower part (below graphite) and immediately above graphite darker - graphitic. Bedding in Rhy. at 70 - 80° to C.A. Varies in graphite at 80 - 85° to C.A. with some deformation; stringers & disseminated sulphides in both Rhy. & graphite. 3-5% Po, 2% Py, Tr, < 1% Sph, Tr, Cp.	5Po, 3Py, < 1Sph, Tr, Cp 3Po, 1Py, Tr, Sph	38497 38498	1526.4 1529.0	1529.0 1531.5	2.6 2.5		nil	.1	.01	nil
1531.5	1536.2	CHLORITIZED ACID DIKE As at 1522.7 - 1526.4; ground contacts; 1-2% disseminated py & some Po.	1-2Py, < 1Po	38499	1531.5	1536.2	4.7			Tr.	nil	
1536.2	1538.4	CHERTY RHYOLITIC TUFF As at 1520.7 - 1522.7 bedding at 80° to C.A. 1537.1 - 1537.5 CHLOR. ACID DIKE as at 1522.7 - 1526.4. Contacts at 80° to C.A. Upper weakly defined. 1-2% disseminated py. Stringer sulphides mainly concentrated at lower contacts of dikes and at lower contact of unit. 3-4% Po, 1-2% Py, 1% Sph, < 1% Cp.	2-3Po, 1Py, 1Sph, < 1Cp 3Py, 2-3Po, 1Sph, Tr, Cp	38500 38201	1536.2 1537.5	1537.5 1538.4	1.3 0.9		nil	.1	.04	nil
1538.4	1656.4	QUARTZ-EYE RHYOLITIC TUFF Bluish qtz, eyes 1-5 mm rounded to subrounded in very tuffaceous; aphanitic, creamy white to grey rock; moderately carbonaceous with some carb. & silic. stringers < 20 mm (bedding?) lower in unit. Some carb. blebs (altered qtz, eyes?) 1544.1 - 1544.3 1553.5 - 1555.9 & 1557.6 - 1562.8 CHLOR. ACID (INTERM.) DIKE as at 1522.7 - 1526.4 but more chlor, with distinct felsic grains. Greenish grey. 1571.9 - 1574.6 more CT to Micro-cr. zone with stringers & blebs of sulphides 2-4% Py, Po, Tr, Sph.	5-7Py, 1-2Po, < 1Sph 3 Py, 1 Po < 1 Py Tr., Py 3-5Py, 1-2Po, Tr, Sph Nil 1 Py	38202 38203 38204 38205 38206 38207 38208	1538.4 1541.3 1546.1 1546.1 1567.0 1572.0 1574.6 1579.6	1541.3 1546.1 1551.2 1572.0 1574.6 1579.6 1584.6	2.9 4.8 5.1 5.0 2.6 5.0 5.0		nil nil nil nil nil nil nil	.1 nil nil nil nil nil nil	nil nil nil nil nil nil nil	.02
656.4	1659.0	MASSIVE SULPHIDES IN CHERTY RHYOLITIC TUFF Some fragments of lightly to moderately chloritized cherty tuff mixed in with massive sulphide zones.	Nil Nil	38209 38210	1646.2 1651.4	1651.4 1656.4	5.2 5.0		nil nil	nil nil	nil nil	

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	As	Ag	Zn	Cu	Pb
		75-80% Py, Po, 2-3% Cp, <1% Sph.	70-80% Py, Po, 2-3% Cp, <1% Sph	38211	1656.4	1659.0	2.6		.58	1.7	.09	nil
1659.0	1705.0	CHERTY RHYOLITIC TUFF Aphanitic; light creamy white to light grey, massive, cherty; lightly chloritized; some light to moderate carbonaceous zones; occasional coarser textured band with clear qtz. eyes, more frequent from 1693.0 - 1705.0. A few chloritic stringers & qtz. carb. stringers.										
		1659.0 - 1661.0 disseminated & minor stringer sulphides 2-4% Py, Po, <1% Cp, <1% Sph.	2-4% Py, Po, <1% Cp, <1% Sph	38212	1659.0	1660.4	1.4	.11	.4	.02	nil	
		1663.0 - 1683.6 Qtz. Carb. dike. Lower contact at 602. Upper-ground.	1 Py, Po	38213	1660.4	1665.2	4.8	nil	nil	nil	nil	
			Tr. Py	38214	1665.2	1670.5	5.3	nil	nil	nil	nil	
			1-2 Py, Po	38215	1695.4	1700.5	5.1	nil	nil	nil	nil	
			<1 Py, Po	38216	1700.5	1705.5	5.0			nil	nil	
1705.0	1714.0	RHYOLITIC TUFF Gray; aphanitic to fine grained; not as cherty as previous unit; some qtz. eyes. Coarser texture.	1 Py, Po	38217	1705.5	1710.5	5.0			nil	nil	
		1710.5 - 1711.3 disseminated (mainly) & some stringer sulphides 2-3% Py, Po.	2-3 Py, Po	38218	1710.5	1711.6	1.1	nil	nil	nil	nil	
			<1 Py, Po	38219	1711.6	1716.6	5.0			nil	nil	
1714.0	1749.5	QUARTZ-EYE RHYOLITIC MICRO TO MACRO AGGLOMERATE Fragments up to 45 mm in very buffaceous silic. matrix. Light grey to dark grey; aphanitic; moderately to lightly chloritized & carbonatized; mainly 7-20 mm fragments with occasional large ones; moderately to loosely packed agglomerate; numerous 2 mm chlor. & carb. blebs - small lapilli (altered qtz. eyes?). Some <1 mm clear qtz. eyes.										
		1745.7 - 1747.0 INTERM. DIKE Fine to medium grained. Upper contact at 70° to C.A. Lower ground; light green. 1-2% disseminated py cubes.										
		1747.0 - 1749.5 Highly carb. & silic. zone.										
1749.5	1812.0	CHLORITIZED QUARTZ-EYE RHYOLITIC MICRO TO MACRO AGGLOMERATE As at 1714.0 - 1749.5 but darker blue grey colour. More moderately chloritized. Very tightly packed aggl. Disseminated blebs of py & po. Some stringers 1-2% Py, Po, Tr, Cp & Sph overall.	<1 Py, Po	38220	1749.0	1754.5	5.5	nil	.1	nil	nil	
			1-2 Py, Po	38221	1754.5	1760.0	5.5	nil	.2	nil	nil	
			<1 Py, Po	38222	1760.0	1765.5	5.5	nil	.6	nil	nil	
			2-3 Py, Po, Tr, Sph	38223	1765.5	1771.0	5.5	nil	.2	nil	nil	
		1770.0 - 1773.4 minor chlor. altered band 3-5% Py, Po, 1% Cp, 1% Sph.	3-5 Py, Po, 1 Cp, 1 Sph	38224	1771.0	1773.4	2.4	nil	.7	.02	nil	
			1-2 Py, Po	38225	1773.4	1778.4	5.0	nil	.5	.01	nil	
			1-2 Py, Po	38226	1778.4	1783.4	5.0	nil	.3	.03	nil	
			3-4 Py, Po, Tr, Sph, Cp	38227	1783.4	1788.4	5.0	nil	.2	nil	nil	
			2-3 Py, Po, Tr, Sph, Cp	38228	1788.4	1793.4	5.0	nil	Tr	.02	.01	
			2-3 Py, Po	38229	1793.4	1798.8	5.4	nil	.1	nil	nil	
			1-2 Py, Po	38230	1798.8	1804.0	5.2	nil	nil	nil	nil	
			1-2 Py, Po	38231	1804.0	1809.0	5.0	nil	.1	nil	nil	

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MATTAGAMI LAKE MINES LIMITED - EXPLORATION DIVISION - DIAMOND DRILL HOLE RECORD

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FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Au	Ag	Zn	Cu	Pb
388.0	483.6	CHLORITIZED RHYOLITE MICRO AGGLOMERATE Dark greenish-grey with numerous pinkish white Rhyolite sections which have the same texture as the darker sections. 1-2% blue quartz eyes throughout. Intermediate dikes at 410.3 - 413.5, 456.5 - 460.0. Fragments are: dark grey, stretched and distorted, some reach macro agglomerate size (> 34 mm). Numerous white specks 1-2 mm, subangular and parallel to the schistosity at 70° to C.A. Matrix around the fragments is Dacitic-Andesitic. Apple green cherty Rhyolite at 446.5 - 447.8.	5 Py 5 Py 1-2 Py Nil 5-10 Py Nil	38101 38102 38103 38104 38105 38106	389.5 393.3 397.5 435.0 440.0 441.3	393.3 397.5 402.5 440.0 441.3 446.3	3.8 4.2 5.0 5.0 1.3 5.0	 nil nil nil nil nil	 nil nil nil nil nil	 1 nil nil nil nil	 nil nil nil nil nil	
		Disseminated Sulfides at 389.8 - 397.0 5% py 440.0 - 441.0 5% py 476.0 - 483.5 5-10% py	 Nil									
		Sulfides consist entirely of pyrite and are found in the matrix around the fragments.	10-20 Py	38107 38108	471.2 475.8	475.8 476.0	4.6 0.2	 nil nil	 nil nil	 nil nil	 nil nil	
		Ground Core 476.0 - 482.0 Note at 475.8 - 476 there was a disseminated pyrite band with 10-20% py.		Ground Core	476.0	482.0	6.0					
			10 Py	38109	482.0	483.6	1.6	 nil	 nil	 nil	 nil	
483.6	513.0	DACITIC FLOW Green. Massive. Homogeneous with numerous amygdaloids 2 mm in diameter and filled with quartz carbonate. Amygdaloids are zoned with white outer rims and clear quartz centers. Odd Quartz Vein.										
513.0	533.0	CHLORITIZED RHYOLITE AGGLOMERATE Dark greyish green to apple green. Apple green cherty rhyolite at 528.5 - 533.0. Blue quartz eyes. Fragments loosely packed, grey, siliceous and set in a highly chloritized matrix (Andesitic). Disseminated pyrite from 513.0 - 528.5. The unit contains a few siliceous Rhyolitic sections 4-5 inches wide which could be large bombs and are set in a chloritized matrix.	1-2 Py 1-2 Py 1-2 Py	38110 38111 38112	513.0 518.0 523.0	518.0 523.0 528.0	5.0 5.0 5.0	 nil nil nil	 nil nil nil	 nil nil nil	 nil nil nil	
533.0	610.0	DACITIC FLOW Dark grey-green. Massive. Amygdaloidal with quartz carbonate stringers. Intermediate dike at 575.5 - 576.0. Amygdaloids 2 mm in diameter with some long and narrow amygdaloids (10 mm) parallel to each other and 10-15° to core axis.										
610.0	615.2	CHLORITIZED RHYOLITE MICRO AGGLOMERATE Green with siliceous fragments 5-10 mm in diameter. Highly chloritized. 1% Blue quartz eyes. 5% disseminated pyrite.	5-10 Py 2-3 Py Nil	38116 38117 38118	609.5 612.5 616.0	612.5 616.0 621.0	3.0 3.5 5.0	 nil nil nil	 nil nil nil	 nil nil nil	 nil nil nil	
615.2	686.0	DACITIC (SILICEOUS ANDESITIC) FLOW Dark greyish green. Massive. Numerous quartz carbonate veins. Amygdaloidal with amygdaloids 2-3 mm in diameter. Siliceous section with disseminated pyrite at 629.0 - 631.0. (Rhy. Micro Aggl - Block caught up in the flow).	1-2 Py	38119	629.0	631.0	2.0	 nil	 nil	 nil	 nil	

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