



52G14NW0003 52G14NW0011D1 WYATT LAKE

010

# Diamond Drilling

Area of WYATT LAKE

Report N<sup>o</sup> 18

Work performed by: Mattagami Lake Mines Limited

Claim N <sup>o</sup>	Hole N <sup>o</sup>	Footage	Date	Note
PA 376296	ER-C-77-9	377.0'	Mar/77	(1)
	ER-C-77-4	407.0'	Feb/77	(1)
PA 457368	<u>ER-C-77-5</u>	<u>367.0'</u>	Feb/77	(1)
Total:- 3DH		<u>1151</u>		

### Notes:

(1) #57-77

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

Wyatt Lake #57

PROPERTY ENGLISH RIVER GROUP "C"	LATITUDE 3 + 50S	STARTED MARCH 12, 1977	DIP TEST			
OLE NO. ER-C-77-9	DEPARTURE 12 + 00E	FINISHED MARCH 18, 1977	Footage	Corrected	Footage	Corrected
EARING NORTH (00)	ELEVATION SURFACE	LENGTH 377.0 FEET	100'	-470		
IP-COLLAR -500	SECTION 12 + 00E	LOGGED BY G. STEINERT	200'	-430		
			300'	-390		

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS						
From	To				From	To	Length	CU	ZN	FE	MN	Al	SiO2	
0'	46.0'	CASING: (34' overburden)												
46.0'	72.0'	RHYOLITE TO RHYODACITE TUFF: Fine gr, pale to med gray, minor section crystal tuff from 46.0-48.5' (rounded white qtz grains up to 1mm diam), thinly banded (laminated) sections (band thickness $\approx$ 1cm) at 450 to core axis range from pale to med gray, dense, aphanitic (cherty) to minor pale green. Highly fractured & sheared, tr fine py along fracture surfaces, cut by minor thin calcite veinlets. 65.4-65.8': brecciated - pale gray fine gr rhyolitic fragments 0.5cm wide & elongated at 450 to core axis in pale greenish-gray fine gr, siliceous matrix.	Tr	239	52.0	55.0	3.0'	Tr	.01	5.02	.04			63.7
72.0'	162.0'	INTERBANDED RHYOLITE-RHYODACITE TUFF (CHERTY) & ARGILLITE (SLIGHTLY GRAPHITIC): Rhyolite-rhyodac tuff banded, similar to above. Argillite - dark gray, fine gr, contains thin black wavy graphitic inclusions 1mm wide & 2-3mm long, 1-2% dissem py + po, complex small scale slump folds, broken & banded from 40-800 to core axis. 72.1': med to dark gray, carbonatized, 2-4% po + py at 86.9' (also few specks cpy), 87.3-87.5', & 98.0-90.2': carbonatized, sulphides occur as thin wispy stringers & dissem. 89.5-89.6': chlorite-calcite vein containing 1% dissem py & tr reddish siderite? 89.8-90.0': med to dark gray very fine gr argillitic unit - irregularly banded, slightly graphitic, 2-4% fine gr diss py. 90.0-91.3': thinly bedded rhy-rhyodac tuff, distinct graded beds 1cm-1.5cm thick consisting of thin buff to white fine gr. (0.5mm grain size) base grading upwards (towards top of hole) to thicker pale to med gray very fine gr top of bed, bedding at 450 to core axis, minor pale pink garnets 0.5mm diam. 95.5-96.5': & 100.5-101.0': crystal tuff units - numerous white rounded qtz grains 1-2mm diam in fine gr gray felsic matrix. 108.3-111.7': 1-2% dissem py + po assoc with carbonatized section; po - py stringer at 109.8'. 111.5-111.6': pink garnets 1-2mm diam 132.5-133.0': 1-2% dissem py 137.3-137.8': pale green fine gr chloritic tuff 142.7': few specks cpy.	Tr	216	80.0	85.0	5.0'	Tr	Tr	2.06	.03			63.7
			2-4% over .4'	217	85.0	87.5	2.5'	Tr	.01	6.98	.10			
			2-4% over 1.0'	218	87.5	90.0	2.5'	.01	.04	8.02	.08			
				219	90.0	95.0	5.0'	Tr	.02	6.20	.08			
				220	102.0	107.0	5.0'	Tr	Tr	3.10	.05			
			1-2%	221	107.0	109.5	2.5'	Tr	.02	3.86	.07			
			1-2%	222	109.5	112.0'	2.5'	Tr	.02	7.72	.08			
			Tr	223	112.0	117.0	5.0'	Tr	Tr	4.02	.06			60.4
			Tr	224	129.5	132.5	3.0'	Tr	.01	4.80	.07			
			1-2%	225	132.5	133.5	1.0'	Tr	.02	4.88	.07			
			Tr	226	133.5	136.5	3.0'	Tr	Tr	4.50	.06			
			Tr	227	136.5	141.5	5.0'	Tr	Tr	5.66	.08			
			Tr	228	141.5	146.5	5.0'	Tr	Tr	6.14	.11			
			Tr	229	146.5	151.5	5.0'	Tr	.01	6.90	.10			
			Tr	230	151.5	156.5	5.0'	Tr	Tr	2.44	.03			
162.0'	225.0'	INTERBANDED RHYOLITE-RHYODAC TUFF & CHLORITE TUFF: Rhy-rhyodac tuff: similar to above. Chloritic tuff: - minor, pale to med green, fine gr contains thin wavy inclusions of fine gr dark gray argillite & thin finely laminated complexly folded & broken cream-coloured												

Reduced copy

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

PROPERTY ENGLISH RIVER GROUP "C"	LATITUDE 3 + 50S	STARTED MARCH 12, 1977	DIP TEST			
HOLE NO. ER-C-77-9	DEPARTURE 12 + 00E	FINISHED MARCH 18, 1977	Footage	Corrected	Footage	Corrected
BEARING NORTH (00)	ELEVATION SURFACE	LENGTH 377.0 FEET	100'	-470		
DIP-COLLAR -500	SECTION 12 + 00E	LOGGED BY G. STEINERT	200'	-430		
			300'	-390		

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS						
From	To				From	To	Length	CU	ZN	FE	MN	AU	SI02	
0'	46.0'	CASING: (34' overburden)												
46.0'	72.0'	RHYOLITE TO RHYODACITE TUFF: Fine gr, pale to med gray, minor section crystal tuff from 46.0-48.5' (rounded white qtz grains up to 1mm diam), thinly banded (laminated) sections (band thickness ≈ 1cm) at 450 to core axis range from pale to med gray, dense, aphanitic (cherty) to minor pale green. Highly fractured & sheared, tr fine py along fracture surfaces, cut by minor thin calcite veinlets.	Tr	239	52.0	55.0	3.0'	Tr	.01	5.02	.04			63.7
72.0'	162.0'	INTERBANDED RHYOLITE-RHYODACITE TUFF (CHERTY) & ARGILLITE (SLIGHTLY) GRAPHITIC): Rhyolite-rhyodac tuff banded, similar to above. Argillite-dark gray, fine gr, contains thin black wavy graphitic inclusions 1mm wide & 2-3mm long, 1-2% disseminated py + po, complex small scale slump folds, broken & banded from 40-800 to core axis. 72.1': med to dark gray, carbonatized, 2-4% po + py at 86.9' (also few specks cpy), 87.3-87.5' & 98.0-90.2': carbonatized, sulphides occur as thin wispy stringers & disseminated. 89.5-89.6': chlorite-calcite vein containing 1% disseminated py & tr reddish siderite? 89.8-90.0': med to dark gray very fine gr argillitic unit - irregularly banded, slightly graphitic, 2-4% fine gr disseminated py. 90.0-91.3': thinly bedded rhy-rhyodac tuff, distinct graded beds 1cm-1.5cm thick consisting of thin buff to white fine gr. (0.5mm grain size) base grading upwards (towards top of hole) to thicker pale to med gray very fine gr top of bed, bedding at 450 to core axis, - minor pale pink garnets 0.5mm diam. 95.5-96.5': & 100.5-101.0': crystal tuff units - numerous white rounded qtz grains 1-2mm diam in fine gr gray felsic matrix. 108.3-111.7': 1-2% disseminated py + po assoc with carbonatized section; po - py stringer at 109.8'. 111.5-111.6': pink garnets 1-2mm diam 132.5-133.0': 1-2% disseminated py 137.3-137.8': pale green fine gr chloritic tuff 142.7': few specks cpy.	Tr	216	80.0	85.0	5.0'	Tr	Tr	2.06	.03			63.7
				217	85.0	87.5	2.5'	Tr	.01	6.98	.10			
				218	87.5	90.0	2.5'	.01	.04	8.02	.08			
				219	90.0	95.0	5.0'	Tr	.02	6.20	.08			
				220	102.0	107.0	5.0'	Tr	Tr	3.10	.05			
				221	107.0	109.5	2.5'	Tr	.02	3.86	.07			
				222	109.5	112.0	2.5'	Tr	.02	7.72	.08			
				223	112.0	117.0	5.0'	Tr	Tr	4.02	.06			60.4
				224	129.5	132.5	3.0'	Tr	.01	4.80	.07			
				225	132.5	133.5	1.0'	Tr	.02	4.88	.07			
				226	133.5	136.5	3.0'	Tr	Tr	4.50	.06			
				227	136.5	141.5	5.0'	Tr	Tr	5.66	.08			
				228	141.5	146.5	5.0'	Tr	Tr	6.14	.11			
				229	146.5	151.5	5.0'	Tr	.01	6.90	.10			
				230	151.5	156.5	5.0'	Tr	Tr	2.44	.03			
162.0'	225.0'	INTERBANDED RHYOLITE-RHYODAC TUFF & CHLORITE TUFF: Rhy-rhyodac tuff; similar to above. Chloritic tuff; minor, pale to med green, fine gr contains thin wavy inclusions of fine gr dark gray argillite & thin finely laminated complexly folded & broken cream-coloured												

Enlarged Copy

Wyatt Lake #57

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS						
From	To				From	To	Length	Cu	Zn	FE	MN	AU	SiO <sub>2</sub>	
		cherty units. Carbonaceous, thin calcite veinlets complex sional pink garnets 1mm diam. 187.4'; few white platy mica crystals on fracture surface.												
225.0'	269.0'	RHYOLITE-RHYODAC TUFF: Banded, cherty, fine gr, pale to med gray to pale green, thinly banded at 55o to core axis, silicified, sheared, tr diss py on shear surfaces.	Tr	231	240.0	243.0	3.0'	Tr	Tr	2.01	.02			67.1
269.0'	272.3'	DACITE TUFF: Fine gr med to dark green, possibly andesitic, contains pink garnets less than 1mm diam, banded at 55o to core axis, slightly argillitic, carbonatized, tr diss py assoc with carbonate, upper contact at 55-60o to core axis. 270.6' & 271.1': 2-4% diss po assoc with carb 271.7-271.8': po stringer assoc with carbonate.	2-4%	232	270.0	272.3	2.3'	Tr	.02	9.32	.11			
272.3'	293.0'	DACITE TUFF: Fine gr, pale green, unbanded, highly carbonatized & silicified, may be silicified mafic tuff.	Tr	233	272.3	275.3	3.0'	Tr	Tr	5.96	.10			
293.0'	302.2'	GRANODIORITE: Fine gr equigranular, pale to med gray-green vein, massive, cut by minor qtz veinlets. 301.2': py filled fracture, few specks cpy.	Tr	234	292.0	297.0	5.0'	Tr	Tr					
			Tr	235	297.0	302.0	5.0'	Tr	Tr					
302.2'	327.5'	DACITE TUFF: Fine gr, pale to med green, highly silicified & carbonatized (cut by numerous thin qtz-carb veinlets), may be silicified mafic tuff.	Tr	236	312.0	315.0	3.0'	Tr	.01	5.38	.08			49.3
327.5'	331.0'	GRANODIORITE: Vein, similar to above, upper contact silicified & at 40o to core axis, lower contact sharp at 55o to core axis.	Tr	237	327.0	332.0	5.0'	Tr	.01					
331.0'	377.0'	DACITE TUFF: Similar to above, contains many thin broken buff cherty bands, highly silicified.	Tr	238	374.0	377.0	3.0'	.01	.01					
377.0'		END OF HOLE												

Reduced copy

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS									
From	To				From	To	Length	CU	ZN	FE	MN	AU	SI02				
		cherty units. Carbonaceous, thin calcite veinlets complexly folded, occasional pink garnets 1mm diam. 187.4': few white platy mica crystals on fracture surface.															
223.0'	269.0'	RHYOLITE-RHYODAC TUFF: Banded, cherty, fine gr, pale to med gray to pale green, thinly banded at 55o to core axis, silicified, sheared, tr diss py on shear surfaces.	Tr	231	240.0	243.0	3.0'	Tr	Tr	2.01	.02					67.1	
263.0'	272.3'	DACITE TUFF: Fine gr med to dark green, possibly andesitic, contains pink garnets less than 1mm diam banded at 55o to core axis, slightly argillitic, carbonatized, tr diss py assoc with carbonate, upper contact at 55-60o to core axis. 270.6' & 271.1': 2-4% diss po assoc with carb 271.7-271.8': po stringer assoc with carbonate.	2-4%	232	270.0	272.3	2.3'	Tr	.02	9.32	.11						
272.3'	293.0'	DACITE TUFF: Fine gr, pale green, unbanded, highly carbonatized & silicified, may be silicified mafic tuff.	Tr	233	272.3	275.3	3.0'	Tr	Tr	5.96	.10						
293.0'	302.2'	GRANODIORITE: Fine gr equigranular, pale to med gray-green vein, massive, cut by minor qtz veinlets. 301.2': py filled fracture, few specks cpy.	Tr	234	292.0	297.0'	5.0'	Tr	Tr								
302.2'	327.5'	DACITE TUFF: Fine gr, pale to med green, highly silicified & carbonatized (cut by numerous thin qtz-carb veinlets), may be silicified mafic tuff.	Tr	236	312.0	315.0	3.0'	Tr	.01	5.38	.08					49.3	
327.5'	331.0'	GRANODIORITE: Vein, similar to above, upper contact silicified & at 40o to core axis, lower contact sharp at 55o to core axis.	Tr	237	327.0	332.0	5.0'	Tr	.01								
331.0'	377.0'	DACITE TUFF: Similar to above, contains many thin broken buff cherty bands, highly silicified.	Tr	238	374.0	377.0	3.0'	.01	.01								
377.0'		END OF HOLE															

*Enlarged copy*

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

Wyatt Lk #57

PROPERTY	ENGLISH RIVER GROUP "C"	LATITUDE	5 + 00S	STARTED	FEBRUARY 5, 1977	DIP TEST					
BOLE NO.	ER-C-77/4	DEPARTURE	20 + 00E	FINISHED	FEBRUARY 10, 1977	Footage	Corrected	Footage	Corrected	Footage	Corrected
BEARING	NORTH	ELEVATION		LENGTH	407.0 FEET	100'	-47o	400'	-40o		
DIP-COLLAR	-50o	SECTION	20 + 00E	LOGGED BY	G. STEINERT	200'	-44o				
						300'	-44o				

From	To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS %						
					From	To	Length	CU	ZN	FE	PN	AU	NI/S102	
0'	12.0'	CASING (4.0' overburden)												
12.0'	61.0'	INTERBANDED FELSIC (DACITE) & MAFIC (AND-BASALT) TUFF: Fine gr, med green felsic & dark green mafic tuff, banded at 70o to core axis, 1-20% pink garnets up to 1cm diam, garnets stretched at 70o to core axis, tr py, intense carbonatization, minor graywacke-gray, fine gr 38.5-40.5': cherty section												
61.0'	115.0'	BANDED DACITE-RHYODACITE TUFF: Fine gr, pale to med green, banded, tr py, intense carbonatization, minor thin pink feldspathic bands. 105.0': white mica on fracture surfaces	Trace	140	97.0	100.0	3.0'	.02	.01	5.17	.17			/50.4
115.0'	121.0'	BANDED CHERT OR CHERTY RHYOLITE: Pale gray, aphanitic, thin bands (laminations) at 70o to core axis.	Tr	139	117.0	120.0	3.0'	.01	.01	5.01	.14			/63.3
121.0'	181.2'	BANDED DACITE-RHYODACITE TUFF: Fine gr, pale to med green, minor pink feldspathic bands, intense carbonatization. 173.0-180.0': minor pink garnets up to 3mm diam	Tr	138	178.0'	182.0	4.0'	.01	.01	6.97	.19			/53.5
181.2'	194.2'	BANDED CHERT OR CHERTY RHYOLITE: Pale to med gray, aphanitic, banded (laminated) at 65-70o to core axis. 184.0-185.3': 30-50% diss po + py (fine gr) 190.5-191.6': 20-30% po + py (fine gr)	30-50% over 1.3' 20-30% over 1.1'	137 136	182.0 187.0	187.0 192.0	5.0' 5.0'	.01 .01	.02 Nil			Nil Nil		.03/ Nil
194.2'	196.2'	MASSIVE PO + PY (70-85%): Fine gr massive barren sulphides, contains many small gray chert or cherty rhyolite inclusions; many pink garnets 1mm diam.	70-85% po + py	135	192.0	197.0	5.0'	.02	Tr				Nil	
196.2'	197.8'	CHERT OR CHERTY RHYOLITE: Pale gray, aphanitic.												
197.8'	198.8'	MASSIVE PO + PY (70-85%): Fine grained barren sulphides, minor gray chert or cherty rhyolite inclusions.	50-80% po + py	134	197.0	202.0	5.0'	.02	Tr				Nil	.03/
198.8'	199.6'	CHERT OR CHERTY RHYOLITE: Pale gray, aphanitic.												
199.6'	252.0'	MASSIVE SULPHIDES (PO + PY), 50-90%: Fine gr barren sulphides, contains numerous inclusions of subrounded, gray chert or rhyolite & minor white sul	50-90% po + py	133 132	202.0 207.0	207.0 212.0	5.0' 5.0'	.02 .01	Tr Tr				Nil	.03/ .03/

Reduced copy

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

PROPERTY ENGLISH RIVER GROUP "C"	LATITUDE 5 + GOS	STARTED FEBRUARY 5, 1977	DIP TEST			
HOLE NO. ER-C-77/4	DEPARTURE 20 + 00E	FINISHED FEBRUARY 10, 1977	Footage 100'	Corrected -47o	Footage 400'	Corrected -40o
BEARING NORTH	ELEVATION	LENGTH 407.0 FEET	200'	-44c		
DIP-COLLAR -50o	SECTION 20 + 00E	LOGGED BY G. STEINERT	300'	-44o		

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS %						
From	To				From	To	Length	CU	ZN	FE	MN	02/T	NI/S102	
0'	12.0'	CASING (4.0' overburden)												
12.0'	61.0'	INTERBANDED FELSIC (DACITE) & MAFIC (AND-BASALT) TUFF: Fine gr, med green felsic & dark green mafic tuff, banded at 70o to core axis, 1-20% pink garnets up to 1cm diam, garnets stretched at 70o to core axis, tr py, intense carbonatization, minor graywacke-gray, fine gr 38.5-40.5': cherty section												
61.0'	115.0'	BANDED DACITE-RHYODACITE TUFF: Fine gr, pale to med green, banded, tr py, intense carbonatization, minor thin pink feldspathic bands. 105.0': white mica on fracture surfaces	Trace	140	97.0	100.0	3.0'	.02	.01	5.17	.17			/50.4
115.0'	121.0'	BANDED CHERT OR CHERTY RHYOLITE: Pale gray, aphanitic, thin bands (laminations) at 70o to to core axis.	Tr	135	117.0	120.0	3.0'	.01	.01	5.01	.14			/63.3
121.0'	181.2'	BANDED DACITE-RHYODACITE TUFF: Fine gr, pale to med green, minor pink feldspathic bands, intense carbonatization. 173.0-180.0': minor pink garnets up to 3mm diam	Tr	138	178.0	182.0	4.0'	.01	.01	6.97	.19			/53.5
181.2'	194.2'	BANDED CHERT OR CHERTY RHYOLITE: Pale to med gray, aphanitic, banded (laminated) at 65-70o to core axis.	30-50% over 1.3'	137	182.0	187.0	5.0'	.01	.02					N11 .03/
		184.0-185.3': 30-50% diss po + py (fine gr) 190.5-191.6': 20-30% po + py (fine gr)	20-30% over 1.1'	136	187.0	192.0	5.0'	.01	N11					N11
194.2'	196.2'	MASSIVE PO + PY (70-85%): Fine gr massive barren sulphides, contains many small gray chert or cherty rhyolite inclusions; many pink garnets 1mm diam.	70-85% po + py	135	192.0	197.0	5.0'	.02	Tr					N11
196.2'	197.8'	CHERT OR CHERTY RHYOLITE: Pale gray, aphanitic.												
197.8'	198.8'	MASSIVE PO + PY (70-85%): Fine grained barren sulphides, minor gray chert or cherty rhyolite inclusions.	50-80% po + py	134	197.0	202.0	5.0'	.02	Tr					N11 .03/
198.8'	199.6'	CHERT OR CHERTY RHYOLITE: Pale gray, aphanitic.												
199.6'	252.0'	MASSIVE SULPHIDES: (PO + PY), 50-90%: Fine gr barren sulphides, contains numerous inclusions of subrounded, gray chert or rhyolite & minor white sub-	50-90% po + py	133 132	202.0 207.0	207.0 212.0	5.0' 5.0'	.02 .01	Tr Tr					N11 .03/ .03/

Enlarged Copy

Wyatt Lk. #57

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS %					
From	To				From	To	Length	Cu	Zn	Pb	Mo	Au	NI/SI
		rounded, gray chert or rhyolite & minor white subrounded quartz fragments (1-3mm diam) & numerous thin, broken, folded, finely banded inclusions of cherty rhyolite to rhyolite.	50-90% po + py	131	212.0	217.0	5.0'	.01	Tr	25.00	.43	Nil	NI/SI
			"	130	217.0	222.0	5.0'	.01	Tr			Nil	.03/
252.0'	254.8'	BANDED CHERT OR CHERTY RHYOLITE: Pale to med gray, aphanitic, minor po + py bands, minor carbonate veinlets.	"	129	222.0	227.0	5.0'	.02	.01			Nil	.03/
			"	128	227.0	232.0	5.0'	.02	Tr			Nil	.04/
254.8'	276.8'	MASSIVE SULPHIDES (PO + PY), 70-85%: Same as above.	"	127	232.0	237.0	5.0'	.02	Tr	21.51	.30	Nil	.03/
276.8'	407.0'	BANDED CHERT OR CHERTY RHYOLITE: Pale to med gray, aphanitic, laminated to banded, few pink garnets 276.8-278.8', tr po + py, complex small scale folding at 288.5 - 293.0' and 320.0-321.3'.	"	126	237.0	242.0	5.0'	.01	Tr				
		327.8-328.3': massive py + po (65-80%) - fine gr contains gray cherty inclusions.	"	124	242.0	247.0	5.0'	.01	Tr				.03/
		328.7-329.5': brecciated-chert frag's in pale to med green very fine gr chloritic matrix containing numerous pink garnets up to 5mm diam	70-85% Po + py	122	247.0	252.0	5.0'	.01	Tr	27.73	.25		.04/
		330.0-333.8': massive py + po (65-80%) fine gr, cherty inclusions.	"	121	252.0	257.0	5.0'	.01	Tr				
		339.2-339.3': massive po band	"	120	262.0	267.0	5.0'	.01	Tr				
		342.3-342.5': massive po band	"		267.0	272.0	5.0'	.01	Tr				
		364.0-367.0': minor pink garnets	"	119	272.0	277.0	5.0'	Tr	Tr			Nil	.03/
407.0'		END OF HOLE	Tr po + py	118	277.0	282.0	5.0'	.01	Tr	5.92	.10		.72
			65-80% po + py over .5'	117	327.0	330.0	3.0'	.01	Tr	12.63	.14		.84
			65-80% po + py	116	330.0	334.0	4.0'	.01	Tr	8.04	.11		
			Tr	115	384.0	388.0	4.0'	.01	Tr	4.95	.09		.53

Reduced Gpy



FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS %					
From	To				From	To	Length	CU	ZN	FE	LN	AI	NI/SIO
		rounded, gray chert or rhyolite & minor white subrounded quartz fragments (1-3mm diam) & numerous thin, broken, folded, finely banded inclusions of cherty rhyolite to rhyolite.	50-90% po + py	131	212.0	217.0	5.0'	.01	Tr	25.00	.43	Nil	
			" " " "	130	217.0	222.0	5.0'	.01	Tr			Nil	.03/
252.0'	254.8'	BANDED CHERT OR CHERTY RHYOLITE: Pale to med gray, aphanitic, minor po + py bands, minor carbonate veinlets.	" " " "	129	222.0	227.0	5.0'	.02	.01			Nil	.03/
			" " " "	128	227.0	232.0	5.0'	.02	Tr			Nil	.04/
254.8'	276.8'	MASSIVE SULPHIDES (PO + PY), 70-85%: Same as above.	" " " "	127	232.0	237.0	5.0'	.02	Tr	21.51	.30	Nil	.03/
276.8'	407.0'	BANDED CHERT OR CHERTY RHYOLITE: Pale to med gray, aphanitic, laminated to banded, few pink garnets 276.8-278.8', tr po + py, complex small scale folding at 288.5 - 293.0' and 320.0-321.3'.	" " " "	126	237.0	242.0	5.0'	.01	Tr				
			" " " "	125	242.0	247.0	5.0'	.01	Tr				
		327.8-328.3': massive py + po (65-80%) - fine gr contains gray cherty inclusions.	" " " "	124	247.0	252.0	5.0'	.01	Tr				.03/
		328.7-329.5': brecciated-chert frag's in pale to med green very fine gr chloritic matrix containing numerous pink garnets up to 5mm diam	70-85% po + py	123	252.0	257.0	5.0'	Tr	Tr				
		330.0-333.8': massive py + po (65-80%) fine gr, cherty inclusions.	" " " "	122	257.0	262.0	5.0'	.01	Tr	27.73	.25		.04/
		339.2-339.3': massive po band	" " " "	121	262.0	267.0	5.0'	.01	Tr				
		342.3-342.5': massive po band	" " " "	120	267.0	272.0	5.0'	.01	Tr				
		364.0-367.0': minor pink garnets	" " " "	119	272.0	277.0	5.0'	Tr	Tr			Nil	.03/
107.0'		END OF HOLE	Tr po + py	118	277.0	282.0	5.0'	.01	Tr	5.92	.10		/72.5
			65-80% po + py over .5'	117	327.0	330.0	3.0'	.01	Tr	12.68	.14		/84.3
			65-80% po + py	116	330.0	334.0	4.0'	.01	Tr	8.04	.11		
			Tr	115	384.0	388.0	4.0'	.01	Tr	4.95	.09		/53.8

Enlarged copy

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

Wyatt LK. #57

Page

PROPERTY	ENGLISH RIVER GROUP "C"	LATITUDE	16 + 50S	STARTED	FEBRUARY 11, 1977	DIP TEST					
HOLE NO.	ER-C-77/5	DEPARTURE	12 + 00E	FINISHED	FEBRUARY 15, 1977	Footage	Corrected	Footage	Corrected	Footage	Corrected
BEARING	NORTH	ELEVATION		LENGTH	367.0 FEET	100'	-47o	.			
DIP-COLLAR	-50o	SECTION	12 + 00E	LOGGED BY	G. STEINERT	200'	-48o				
						300'	-47o				

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS						
From	To				From	To	Length	CU	ZN	FE	MN	AU	NI/SiO2	
0'	18.0'	CASING: (5' of overburden)												
18.0'	119.0'	MAFIC TUFF: Fine gr, dark green, minor pink garnets 1-3mm, dia tr py, intense carbonatization. Qtz veins at 72.8-73.0', 93.2-93.5', (tr py), 94.5-94.6'. 89.4-91.5': semi-massive to massive po (25-60%) with minor py 94.0-102.0': 2-5% py + po in dark green argillaceous tuff highly foliated at 70o to core axis. 100.0-116.5': numerous garnets & intense carbonatization.	20-60% po 2-5% py + po 2-5% py + po	152 153 154	88.0 92.0 97.0	92.0 97.0 102.0	4.0' 5.0' 5.0'	.01 Tr Tr	Tr Tr Tr	11.40 9.00	.18 .30			/52.7
119.0'	120.2'	RHYOLITE-RHYODACITE TUFF: Fine gr, pale to med gray.	Tr	151	115.2	120.2	5.0'	Tr	.01	9.00	.26			/72.2
120.2'	131.7'	MASSIVE SULPHIDES: 50-80% po. Very fine gr to fine gr (resembles graded bedding with tops toward top of hole (south), mainly po with minor py, rounded inclusions of white quartz 0.1-3.0cm diam, minor pink garnets 1mm diam, carbonatized.	50-80% po 50-80% po 50-80% po	150 149 148	120.2 123.2 126.7	123.2 126.7 131.7	3.0' 3.5' 5.0'	.01 .01 .01	.01 Tr Tr	18.74 21.31 28.97	.23 .26	Nil Nil Nil		.03/ .02/ .02/
131.7'	134.8'	RHYODACITE-RHYOLITE TUFF: Fine gr, pale to med gray, massive, tr py, sharp upper contact at 90o to core axis, sharp lower contact at 25o to core axis.	Tr py	147	131.7	134.8	3.1'	Tr	.01	4.45	.09			/67.6
134.8'	143.5'	MASSIVE SULPHIDES: (50-80% po) Very fine gr to fine gr, numerous inclusions of complexly folded & broken pale-med gray cherty rhyodac-rhy & few white quartz inclusions (rounded). Graphitic from 152.0-152.3'.	50-80% po 50-80% po	146 145	134.8 138.5	138.5 143.5	3.7' 5.0'	.01 .01	.02 .02	16.60 16.66	.23 .16	Nil Nil		
143.5'	152.3'	RHYODACITE-RHYOLITE TUFF: Minor py + po. Fine gr, pale greenish-gray, py + po stringers from 1-15%, intense carbonatization.	5-15% 1-10%	144 143	143.5 147.3	147.3 152.3	3.8' 5.0'	.01 Tr	.02 .03				Nil Nil	
152.3'	158.0'	RHYODACITE-RHYOLITE TUFF: Pale to med gray, fine gr (1mm diam) massive, no carbonatization, no sulphides.	Trace	142	152.3	158.0	5.7'	.01	.01	3.34	.04			/90.9
158.0'	367.0'	INTERBANDED MAFIC TUFF & FELSIC TUFF WITH MINOR SEDIMENTS: Predominant fine gr, dark green mafic tuff, tr py, intense carbonatization (veinlets). Thin felsic tuff bands at: 321.7-322.6': rhy-rhyodacite, pale to med gray, fine gr, massive sharp contacts at 75o to core axis. 333.7-335.0': rhy-rhyodac, pale to med gray, porphyritic (fd phenocrysts 2mm diam in fine gr groundmass), foliated, sharp contacts at 70o to core axis.	Trace	141	158.0	163.0	5.0'	.02	.02	7.93	.11			/72.5

Reduced Copy

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

PROPERTY ENGLISH RIVER GROUP "C"		LATITUDE 16 + 50S	STARTED	FEBRUARY 11, 1977		DIP TEST						
OLE NO. ER-C-77/5		DEPARTURE 12 + 00E	FINISHED	FEBRUARY 15, 1977		Footage	Corrected	Footage	Corrected	Footage	Corrected	
EARING NORTH		ELEVATION	LENGTH	367.0 FEET		200'	-48o					
IP-COLLAR ~50o		SECTION 12 + 00E	LOGGED BY	G. STEINERT		300'	-47o					
FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	CU	ZN	FE	MN	AU
0'	18.0'	CASING: (5' of overburden)										
18.0'	119.0'	MAFIC TUFF: Fine gr, dark green, minor pink garnets 1-3mm, dia tr py, intense carbonatization. Qtz veins at 72.8-73.0', 93.2-93.5', (tr py), 94.5-94.6'. 89.4-91.5': semi-massive to massive po (25-60%) with minor py 94.0-102.0': 2-5% py + po in dark green argillaceous tuff highly foliated at 70o to core axis. 100.0-116.5': numerous garnets & intense carbonatization.	20-60% po	152	88.0	92.0	4.0'	.01	Tr	11.40	.18	/52.7
			2-5% py + po	153	92.0	97.0	5.0'	Tr	Tr			
			2-5% py + po	154	97.0	102.0	5.0'	Tr	Tr	9.00	.30	
119.0'	120.2'	RHYOLITE-RHYODACITE TUFF: Fine gr, pale to med gray.	Tr	151	115.2	120.2	5.0'	Tr	.01	9.00	.26	/72.2
120.2'	131.7'	MASSIVE SULPHIDES: 50-80% po. Very fine gr to fine gr (resembles graded bedding with tops toward top of hole (south), mainly po with minor py, rounded inclusions of white quartz 0.1-3.0cm diam, minor pink garnets 1mm diam, carbonatized.	50-80% po	150	120.2	123.2	3.0'	.01	.01	18.74		NI1 .03/
			50-80% po	149	123.2	126.7	3.5'	.01	Tr	21.31		NI1 .02/
			50-80% po	148	126.7	131.7	5.0'	.01	Tr	28.97	.26	NI1 .02/
131.7'	134.8'	RHYODACITE-RHYOLITE TUFF: Fine gr, pale to med gray, massive, tr py, sharp upper contact at 90o to core axis, sharp lower contact at 25o to core axis.	Tr py	147	131.7	134.8	3.1'	Tr	.01	4.45	.09	/67.6
134.8'	143.5'	MASSIVE SULPHIDES: (50-80% po) Very fine gr to fine gr, numerous inclusions of complexly folded & broken pale-med gray cherty rhyodac-rhy & few white quartz inclusions (rounded). Graphitic from 152.0-152.3'.	50-80% po	146	134.8	138.5	3.7'	.01	.02	16.60	.23	NI1
			50-80% po	145	138.5	143.5	5.0'	.01	.02	16.66	.16	NI1
143.5'	152.3'	RHYODACITE-RHYOLITE TUFF: Minor py + po. Fine gr, pale greenish-gray, py + po stringers from 1-15%, intense carbonatization.	5-15%	144	143.5	147.3	3.8'	.01	.02			NI1
			1-10%	143	147.3	152.3	5.0'	Tr	.03	11.00	.12	NI1
152.3'	158.0'	RHYODACITE-RHYOLITE TUFF: Pale to med gray, fine gr (1mm diam) massive, no carbonatization, no sulphides.	Trace	142	152.3	158.0	5.7'	.01	.01	3.34	.04	/90.9
158.0'	367.0'	INTERBANDED MAFIC TUFF & FELSIC TUFF WITH MINOR SEDIMENTS: predominant fine gr, dark green mafic tuff, tr py, intense carbonatization (veinlets). Thin felsic tuff bands at: 321.7-322.6': rhy-rhyodacite, pale to med gray, fine gr, massive sharp contacts at 75o to core axis. 333.7-335.0': rhy-rhyodac, pale to med gray, porphyritic (fd phenocrysts 2mm diam in fine gr groundmass), foliated, sharp contacts at 70o to core axis.	Trace	141	158.0	163.0	5.0'	.02	.02	7.93	.11	/72.5

*Enlarged Copy*

*Wyatt Lk. #57*

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS						
From	To				From	To	Length	CU	ZN	Fe	Mn	AU	SI02	
		336.2-337.1': Similar to above.												
		349.4-349.7': " " " " "												
		350.4-351.0': " " " " " 2-3% py	2-3% py	155	350.4	351.0	0.6'	.03	.02					
		359.0-367.0': " " " " " tr py on fractures pink siliceous alteration from 364.0-366.5'.	Tr py	156	359.0	364.0	5.0'	.01	.01	3.50	.06			/86.
		343.3': po stringer, complexly folded area.												
		From 348.0' on: Mafic tuff becomes finely banded with minor thin black, fine gr argillaceous bands containing 1-2% py, bands ax: at 70o to core axis.												
367.0'		END OF HOLE												

*Reduced Copy*

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS					
From	To				From	To	Length	CU	ZN	Fe	Mn	AU	SI02
		336.2-337.1': Similar to above.											
		349.4-349.7':											
		350.4-351.0': , 2-3% py											
		359.0-367.0': , tr py on fractures pink siliceous alteration from 364.0-366.5'.	2-3% py	155	350.4	351.0	0.6'	.03	.02				
			Tr py	156	359.0	364.0	5.0'	.01	.01	3.50	.06		/86
		343.3': po stringer, complexly folded area.											
		From 348.0' on: Mafic tuff becomes finely banded with minor thin black, fine gr argillaceous bands containing 1-2% py, bands are at 700 to core axis.											
367.0'		END OF HOLE											

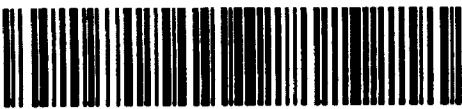
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Ministry of

Wyatt Lake M. 3197

77-51



52G14NW003 52G14NW0011D1 WYATT LAKE

300 REPORT OF WORK

A separate form is required for each type of work to be recorded.

To the Recorder of Patricia Mining Division
Mattagami Lake Mines Limited T-84
name of Recorded Holder Prospector's Licence
Suite 1110 - 8 King St. East, Toronto, Ontario. MSC 1B5
Post Office Address

do hereby report the performance of 1,151 days of diamond drilling type of work
not before reported to be applied on the following contiguous claims

Table with 6 columns: Claim No., Days, Claim No., Days, Claim No., Days. Rows include Pa. 376295, Pa. 376298, Pa. 457367, Pa. 458725, Pa. 376296, Pa. 376299, Pa. 457368, Pa. 458726, Pa. 376297, Pa. 376300, Pa. 457369.

Geological Branch ODM
ASSESSMENT FILES
RESEARCH OFFICE
SEP 14 1977
RECEIVED

All the work was performed on Mining Claim (s) Pa. 376296, Pa. 457368
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING REGULATION ACT

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
For Land Survey - the name and address of Ontario Land surveyor.

RECEIVED
SEP 22 1977
RESIDENT GEOLOGIST'S OFFICE
SIX MONTH LOOKOUT

The Required Information is as Follows: (Attach a list if this space is insufficient)

Table with 6 columns: Hole, Claim, Azimuth, Dip, Length, Dates. Rows include ER-C-77-4, ER-C-77-5, ER-C-77-9.

These holes were drilled by Morissette Diamond Drilling Ltd. of Haileybury, Ontario. Core diameter is 1-1/16".

Date Aug 23 1977
Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work

J.D. Harvey
Suite 1110 - 8 King St. East, Toronto, Ontario. MSC 1B5
(Post Office Address)

hereby certify:

- 1. That I have a personal and intimate knowledge of the facts set forth in the report of work annexed hereto, having performed the work or witnessed same during and/or after its completion.
2. That the annexed report is true.

Dated Aug 23 1977

RECEIVED
AUG 25 1977
AM 7:08 PM 1:23:45R

Signature

Pa 376295

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH



Ministry of  
Natural  
Resources  
Ontario

Wyatt Lake M. 3197 77-57

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of..... Patricia.....Mining Division

I,..... Mattagami Lake Mines Limited..... T-84

name of Recorded Holder..... Prospector's Licence

Suite 1110 - 8 King St. East, Toronto, Ontario. MSC 1B5

Post Office Address

do hereby report the performance of ..... 1,151 ..... days of ..... diamond drilling ..... type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
Pa. 376295	100	Pa. 376296	136 <i>OK</i>	Pa. 376297	111
Pa. 376298	100	Pa. 376299	100	Pa. 376300	104 <i>OK</i>
Pa. 457367	100	Pa. 457368	100	Pa. 457369	100
Pa. 458725	100	Pa. 458726	100		

All the work was performed on Mining Claim (s) ..... Pa. 376296, Pa. 457368 .....  
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment  
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Hole	Claim	Azimuth	Dip	Length	Dates
ER-C-77-4	Pa. 376296	North	50°	407.0'	Feb. 5-10, 1977.
ER-C-77-5	Pa. 457368	North	50°	367.0'	Feb. 11-15, 1977
ER-C-77-9	Pa. 376296	North	50°	377.0'	Mar. 12-18, 1977

These holes were drilled by Morissette Diamond Drilling Ltd. of Haileybury, Ontario. Core diameter is 1-1/16".

Date Aug 23, 1977.....  
Signature of Recorded Holder or Agent

The Mining Act  
Certificate Verifying Report of Work

I, J.D. Harvey.....

Suite 1110 - 8 King St. East, Toronto, Ontario. MSC 1B5

(Post Office Address)

hereby certify:

- That I have a personal and intimate knowledge of the facts set forth in the report of work annexed here-to, having performed the work or witnessed same during and/or after its completion.
- That the annexed report is true.

Dated Aug 23, 1977.....  
Signature

PATRICIA MINING DIV.  
RECEIVED  
AUG 25 1977  
AM 7:08 PM 7:08:12, 1:28, 4:58

Pa 376295

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH



Pa. 376299

Pa. 376298

Pa. 376295

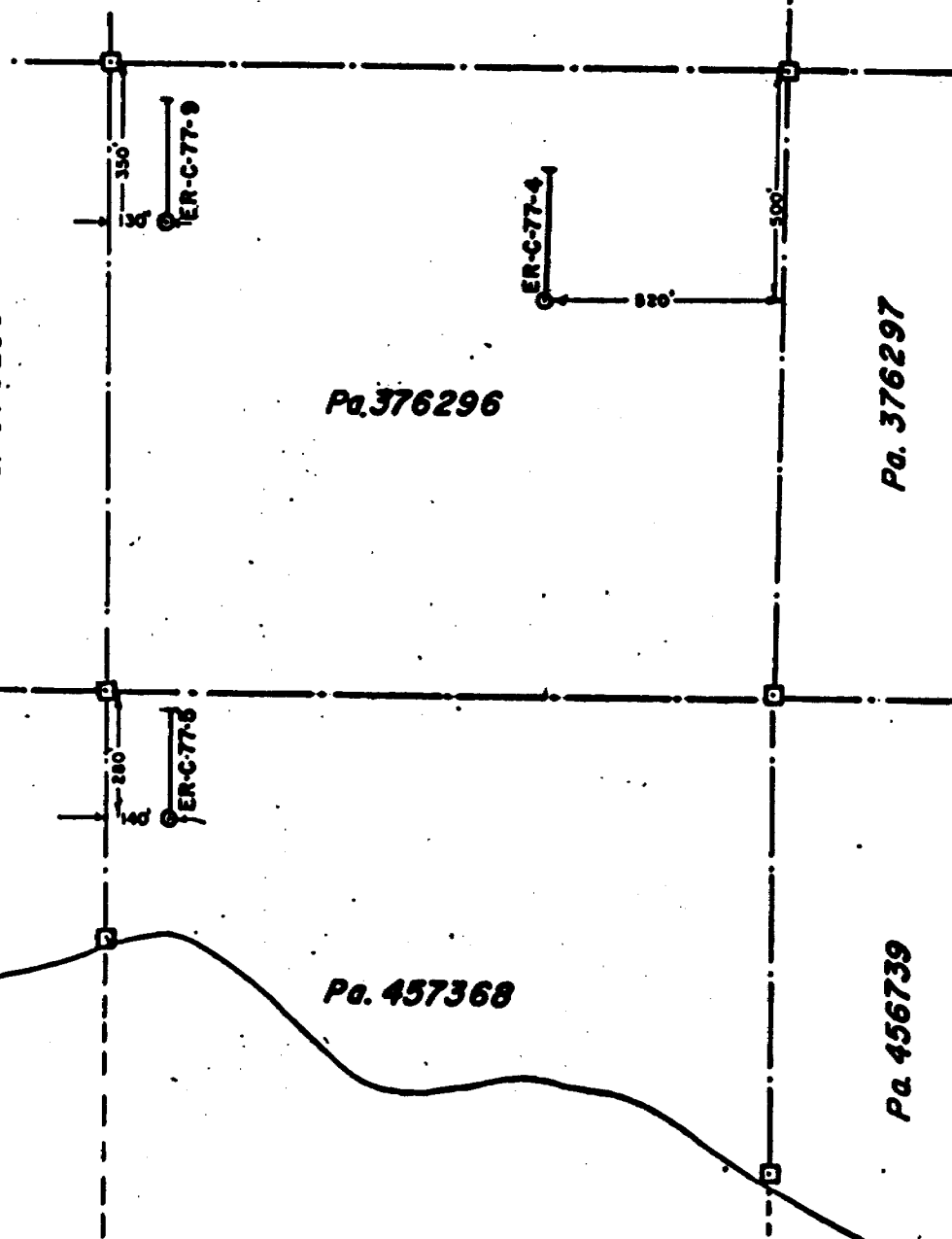
Pa. 376296

Pa. 376297

Pa. 457367

Pa. 457368

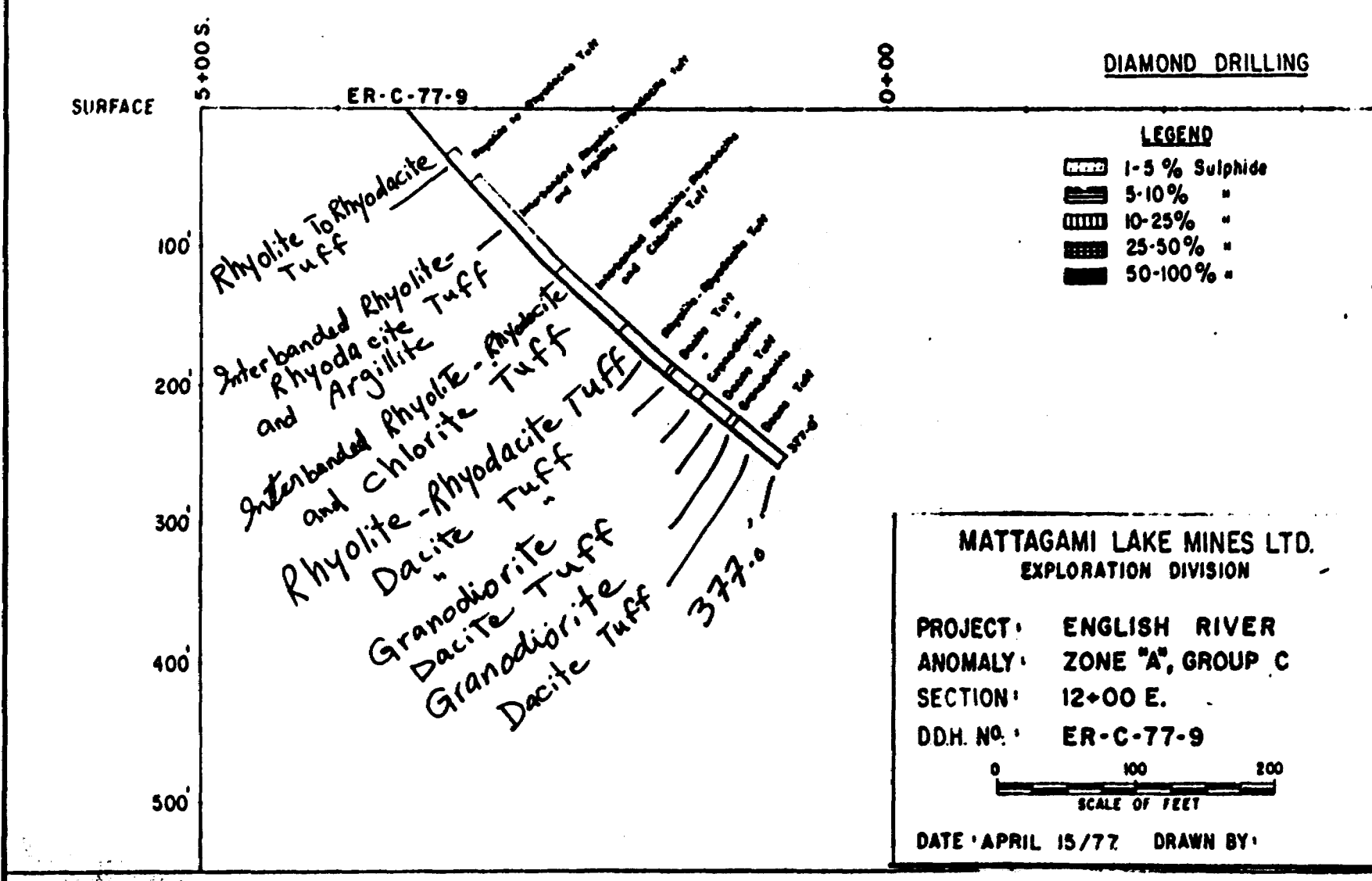
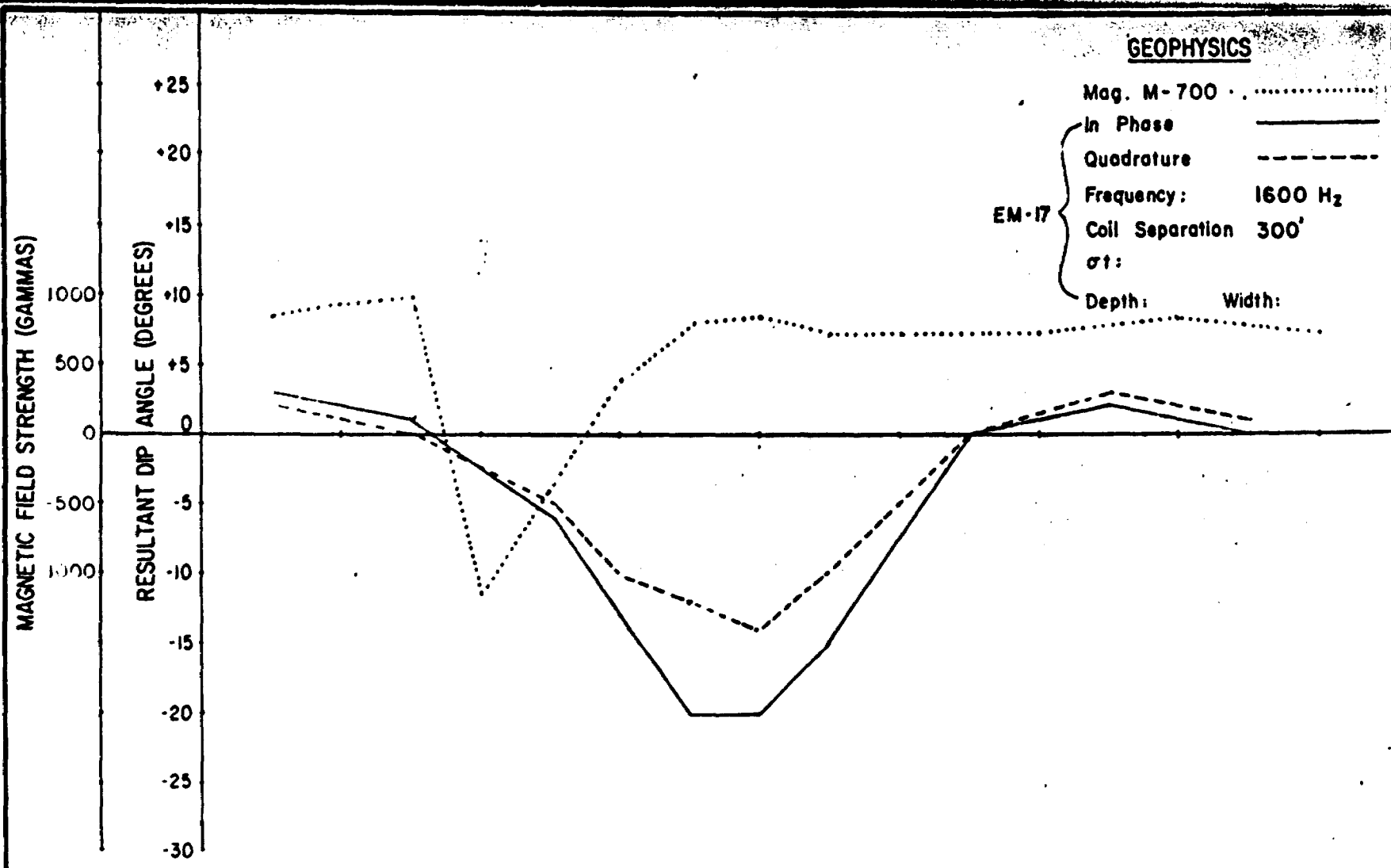
Pa. 456739



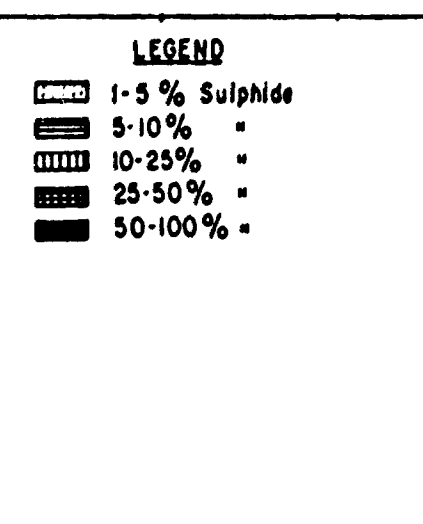
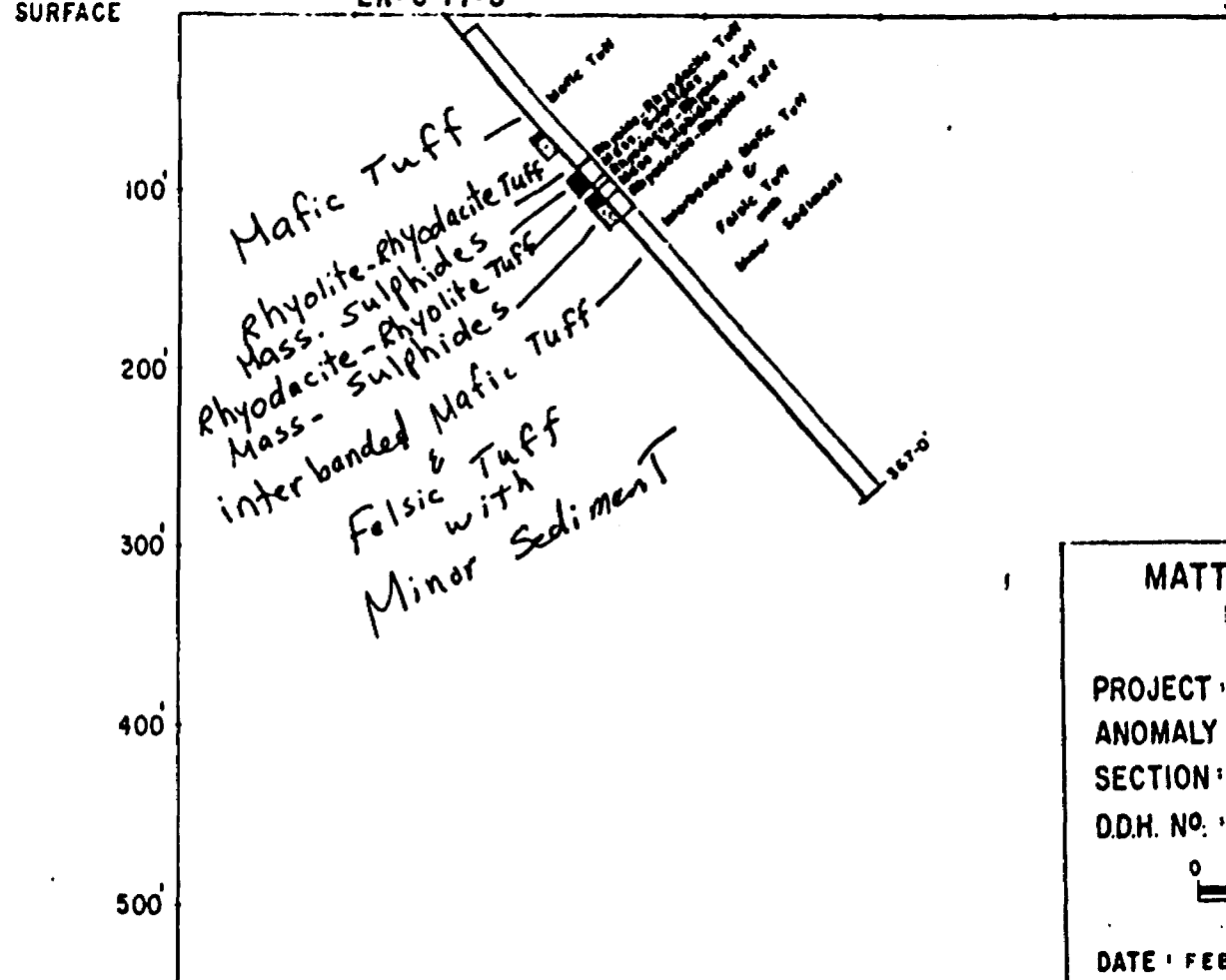
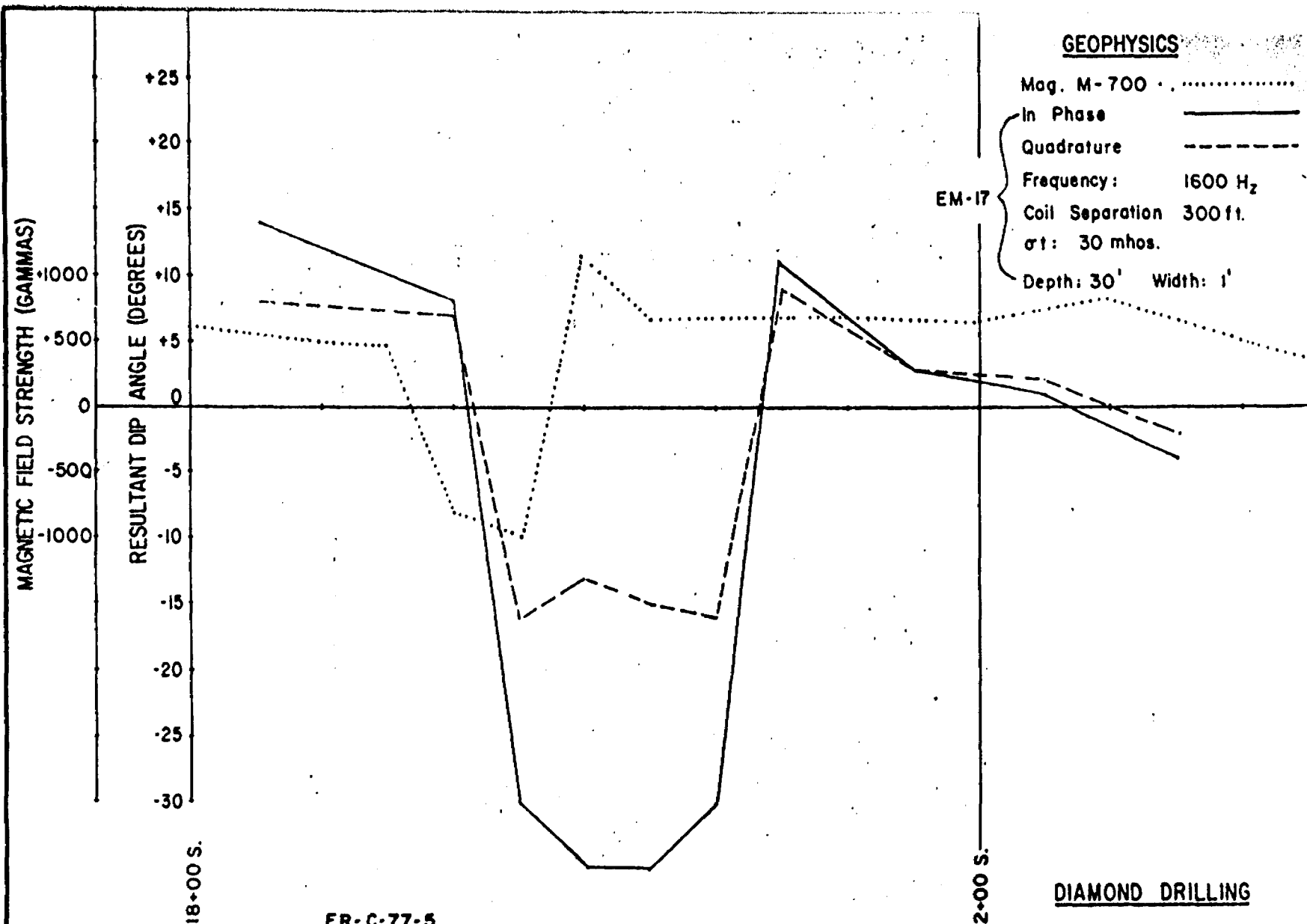
MINISTRY OF NATURAL RESOURCES  
**RECEIVED**  
 SEP 22 1977  
 RESIDENT GEOLOGIST'S OFFICE  
 SIOUX LOOKOUT

**MATTAGAMI LAKE MINES LTD.**  
 EXPLORATION DIVISION  
 PROJECT: ENGLISH RIVER  
 LOCATION PLAN  
 D.D.H.# ER-C-77-4, -5, and -9.  
 SCALE: 1" = 400 FEET  
 DATE: MARCH 16, 1977 DRW. BY: R.S.





INPUT SURVEY



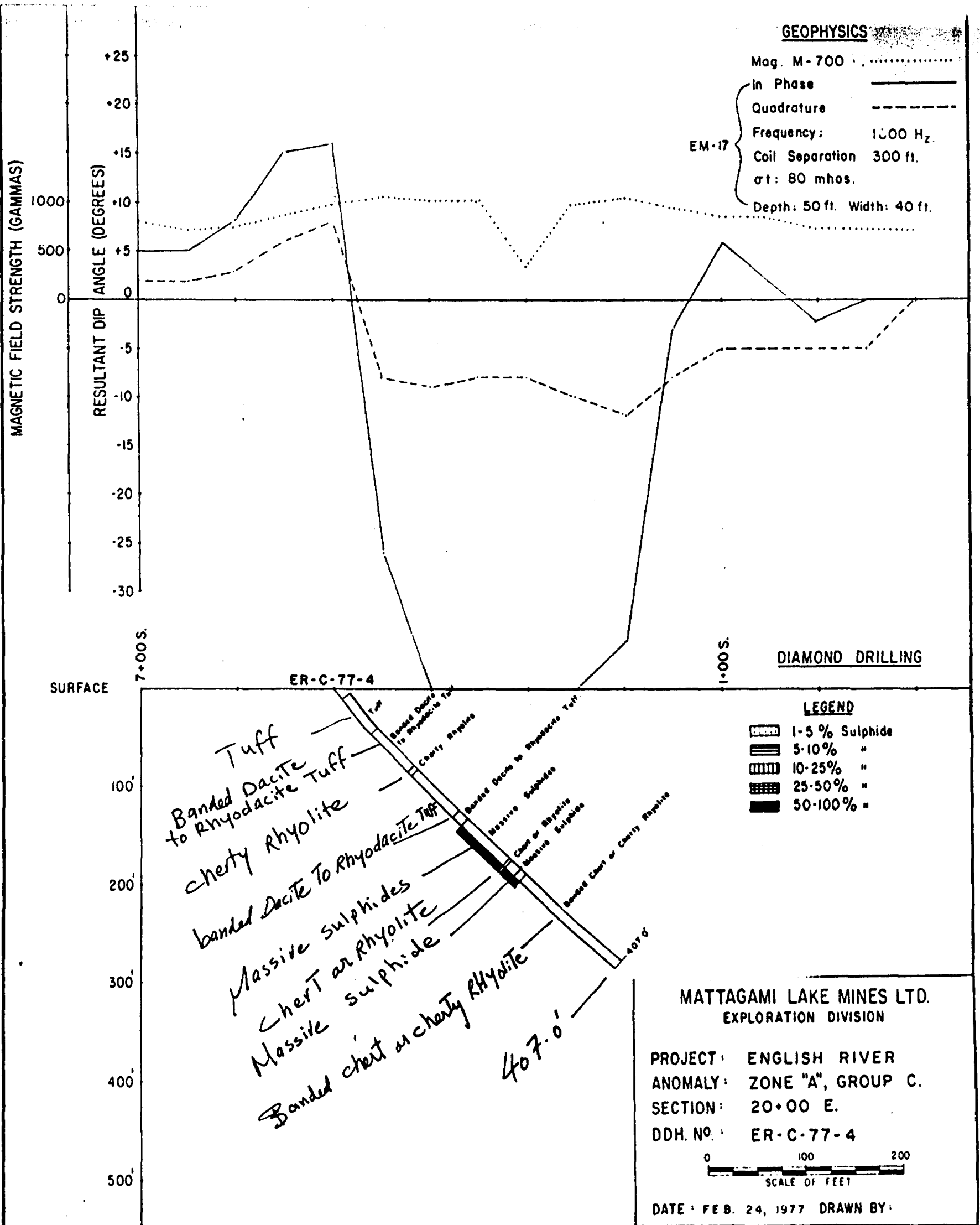
**MATTAGAMI LAKE MINES LTD.**  
 EXPLORATION DIVISION

PROJECT: ENGLISH RIVER  
 ANOMALY: ZONE "E", GROUP C.  
 SECTION: 12+00 E.  
 D.D.H. NO.: ER-C-77-5

0 100 200  
 SCALE OF FEET

DATE: FEB, 23, 1977 DRAWN BY:

INPUT SURVEY



INPUT SURVEY

SMOCK LAKE M-3196

BLOCK N

Nyatt Lake M-3197

Scale

1" = 40 chs

458709 458710

458711 458712

10M

Yonde

Lake

9M

458725 458726

376300 376297 376298 376299

84

376295 376296 376297 376298

457367 457368

457369 457370

Wonder L

457355 457356 457357 457358

457359 457360 457361 457362

7M

Pear Lake

M.M. GRAVEL  
PIT NO. 99  
P.L.S. 100000



PROJECTED

SLAG

Jarvis Lake

Jarvis L

Umfreville

49°52'30"