

GM 05684-B

SUMMARY OF DRILLING, ATLIN RUFFNER MINES

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SUMMARY OF DRILLING

ATLIN RUFFNER MINES LTD.

Montgolfier Twp.

Hole No	Position	Bearing	Dip	Depth
East A-1	2637N-PL5	S	45 to 14 at 1000	1115
2	2650N-2800E	S	45-16	1000
3	2965N-4000E	S	45-18	1335
4	260N-400E	S	45-4	1413
5	2300S & 2200E of W end of c.b.l.	S-W	45-31	1046
6	2950N-5200E	S	45-25	1328
7	500S 1200E	S	45-19	937
8	P-125 1000N 11200E P.L. 25	S	45-17	963
9	2450N 0 E P.L. 1	S	45-19	1166
10	1900N 7200E pd. 10	S	45-29	991
11	2000N 11600E (30)	S	45-28	927
12	1550N 8800E (23)	S	45-35	639
13	2100N 1200W (8)	S	45-32	1071
14	200S 9600E (25)	S	45-38	775
15	1000N 2400W (6W)	S	45-29	764
West 16	1700N PL 1	S	45-32	713
17	2000N 7	S	45-33	553
18	2700N 13	S	45-37	929
19	1650N 7 feet above A 16	S	45-34	752
20	1900N 7 4 feet above A 17	S	45-30	784
21	1400N 18' above A 16	S	45-42	446
22	1950N 1	N	45-43	437
23	1800N 13 W ext. #2	S	45-32	800
24	3300N 13 Area 8	S	45-40	879
25	2300N 17 " "	N	45-40	408
26	2000N 13 " "	S	45-38	801
27	1600N 7 20' above A 17	S	45-37	636
28	1400N 13	S		700
29	2500N 4	S		800
30	3100N 10	S		5758 Still drill - 800 Aug July 1957
31	1100N 7	S		898
32	1050 3	S		803

34
35
36
37

P.L. = pocket line.



GM 5684-B

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Prop. HOLE NO. A-1

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED Jan. 27th 1957
 LATITUDE 2637' North of Base Line DATUM _____ COMPLETED _____
 DEPARTURE on 5th picket line E. BEARING South ULTIMATE DEPTH _____
 ELEVATION _____ DIP Coll. - 46° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 143	Casing - in clay overburden				
143 - 185	Bands of black magnetite - Black magnetite bearing bands interbedded with red jasper bands up to 1/2" wide, showing a few fine grains of magnetite and barren argillite bands up to 2" wide. Approximately 35% barren argillite. Bedding at 60 - 45° to core.				
150 - 160		1301	10	26.91	Fe.
185 - 216.5	Diorite - mottled green, chloritic, weak gneissic structure, numerous irregular quartz carbonate stringers up to 1' wide, Sharp contacts at 30° to core. 209-213 banded black magnetite, 50% barren argillite.				
216.5 - 300	Bands of black magnetite - Black magnetic bands interbedded with thin argillite bands generally not more than 1/2" wide. Probably 20% barren argillite decreasing down hole. Sparce jasper bands dying out about 240'				
253-55, 267-68	Thin jasper bands.				
225 - 235		1302	10	24.61	
250 - 260		1303	10	29.44	
275 - 285		1304	10	25.76	

DRILLED BY

SIGNED

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUPNER - MONTGOMERY IRON PROPERTY HOLE NO. A-1 (continued)

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPL.	GROSS WEIGHT	SLUDGE GOLD g
	350 - 355	1307	5	33.06	
	363.5 - 364.5 Argillite - non-magnetic				
	379 - 381 Green Chloritic - non-magnetic				
	375 - 380	1308	5	24.8	
	400 - 405	1309	5	28.16	
	425 - 430	1310	5	29.74	
	453 - 458 Red jasper bands up to 1/2" wide				
	450 - 455	1311	5	37.70	
461 - 549	Bands of Black Magnetite Generally as above but increasing barren argillite bands up to 2" wide. Total non-magnetic about 10% Usually strongly magnetic between barren bands. Banding 45 - 60° to core				
	475 - 480	1312	5	24.80	
	500 - 505	1313	5	20.10	
	527 - 530 Gray-green massive Argillite or tuff, No magnetite				
	525 - 530	1314	5	14.64	

DRILLED BY _____

SIGNED _____

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - MONTGOLFIER IRON PROPERTY

HOLE NO. A-1

SHEET NUMBER 4 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD S	SLUDGE GOLD S
	536 - 537 Green Chloritic with 4" of white quartz in centre, no Magnetite.				
	538.2 - 539 No Magnetite				
	541 - 542 No Magnetite				
549 - 573.5	Bands of Black Magnetite - generally black, heavy, strongly magnetic. Sparcely scattered fine jasper bands and barren argillite up to 1/2" wide. Total non-magnetic less than 2%.				
	550 - 555	1315	5		<i>to be re run</i>
573 - 575	Lamprophyre dyke - Uniform medium grain, considerable biotite, sharp contacts at 60° to core.				
575 -	Bands of Black Magnetite - as above but increasing argillite. Approximately 5 - 10% non-magnetic				
	575 - 580	1316	5	28.49	
	600 - 625	1317	5	28.82	
	625 - 630	1318	5	21.12	
					<i>400' averaging 27%</i>

DRILLED BY

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DIAMOND DRILL RECORD

PROPERTY ATLANTIC RIFTER - MONTGOMERY IRON PROPERTY HOLE NO. 4-1

SHEET NUMBER 5 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
575 - 641	-				
641 - 740	Bands of Black Magnetite - Basic Tuff Magnetite bands and barren tuff interbedded and occasionally intergrading. Tuff beds green, varies from a medium to fine, sometimes resembles chlorite. Usually coarser up hole becoming finer down hole. Taps to South? Sharp contact at 60° similar to magnetite banding. Magnetite bands usually strongly magnetic, becoming weak when mixed with tuff. Tuff beds - 641-42.2, 651-56, 656.5-57 667 - 695.5 mixed with Jasper. 730 - 740 Tuff with numerous quartz stringers Weak magnetism - 665-70, 675-78, 699-702				
	650 - 55	1319	5	10.35	
	675 - 80	1320	5	15.18	
	700 - 705	1321	5	14.03	
	725 - 730	1322	5	20.67	

DRILLED BY

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DIAMOND DRILL RECORD

PROPERTY ATLIN-BUFFNER - MONTGOLFIER IRON PROPERTY HOLE NO. A-1

SHEET NUMBER 6 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %
740 - 881	Bands of Black Magnetite - Black magnetite bedded with non-magnetic argillite up to 3" wide at 70° - 80° to core. About 20% non-magnetic. Scattered quartz stringers.			Fe.	
	750 - 755	1323	5	14.93	
	775 - 780	1324	5	23.46	
	Non-magnetic 813 - 16.5, 821 - 22, 823 - 26 827.5 - 28.5 also numerous narrow bands up to 2" wide. 839.5 - 841 white quartz vein 841. - 42 lost core Increasing Jasper down hole.				
881 - 930	Bands of Black Magnetite - Interbedded tuff magnetic bands black to rusty red because of fine jasper. Tuff - green, fine to medium 6" to 3" wide. Barren tuff 881-82, 884-85, 885.5-88.5 893-95 also 50% vuggy quartz 900.5 - 909.5 Dark green granular, could be a dyke. parallel to bedding.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - MONTGOLFIER IRON PROPERTY

HOLE NO. k-1

SHEET NUMBER 7

SECTION FROM _____ TO _____

STARTED _____

LATITUDE _____

DATUM _____

COMPLETED _____

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH _____

ELEVATION _____

DIP _____

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	800 - 805	1325	5	28.75	
	825 - 830	1326	5	25.30	
	850 - 855	1327	5	20.01	
	875 - 880	1328	5	25.07	
	910 - 915 (900 - 910 barren)	1329	5	33.81	
930 -	Bands of Black Magnetite - becoming dark rusty red with scattered green basic tuff beds up to 3' wide.				
	Banding at 70° - 80°				
	Tuff 942-44, 945-46, 961.5-964.5, 993-95				
	Numerous barren bands up to 1" wide coming in after 995 and increasing down hole.				
	925 - 930	1330	5	23.23	
	950 - 955	1331	5	36.57	
	975 - 980	1332	5	34.27	
	1000 - 1005	1333	5	28.98	
	HOLE CONTINUING.				

DRILLED BY

SIGNED

DIAMOND DRILL RECORD

PROPERTY ATLIN RUFFNER - MONTGOLFIER IRON PROPERTY

HOLE NO. A - 1

SHEET NUMBER 8 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
930 - 1007					
1007 - 1045	Bands of Black Magnetite - Black, strongly magnetic beds interbedded with non-magnetic green argillite and probably tuff. Beds from less than 1" to 3" wide. About 50% non-magnetic. Banding at 80° to core.				
1045 - 1115	Argillite - mainly green thin bedded argillite, sometimes becoming tuffaceous looking. About 10% black magnetic bands up to 6" wide. Banding at 80° to core.				
1115	END OF HOLE				
	DIP TESTS - Collar - 46°				
	160' - 46°				
	400' - 30°				
	600' - 24°				
	800' - 20°				
	1000' - 14°				

DRILLED BY

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DIAMOND DRILL RECORD

PROPERTY ATLON-RUFFNER - MONTGOMERY IRON PROPERTY HOLE NO. A-2

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED February 7, 1957
 LATITUDE 2650 North DATUM _____ COMPLETED February 16, 1957
 DEPARTURE 2800 East BEARING South ULTIMATE DEPTH 1000
 ELEVATION _____ DIP Coll - 45° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	% LOSS WASH	SLUDGE GOLD %
0 - 134	Casing - clay overburden				
134 - 154	Magnetitic Argillite (Bands of Black Magnetite in A-1) Black, strongly magnetic, shattered and broken ground 75% of core lost.				
154 - 236	Magnetitic Argillite - Uniform fine grained, black, fine bedding at 45° to core. Magnetism strong to medium. 154 - 156 Jasper bands up to 1/2" wide. 206 Pyrite film on slip. Lost core 217 - 18, 219 - 20 Barren Argillite 233 - 34, 234.3 - 34.5	44	154 - 75	21	
		45	175 - 95	20	
		46	195 - 215	20	
		47	215 - 36	21	
236 - 291	Andesite (same as diorite in A-1) Green chloritic, fine to medium, occasional distorted amygdules, a few black strongly magnetic bands. Magnetite bands 236.6 - 237.2, 248 - 249.2, 250 - 251 254 - 274 totally barren numerous quartz stringers Magnetite bands 274 - 74.5, 275 - 75.5, 279 - 87	48	236 - 54	18	
		49	254 - 74	20	
		50	274 - 91	17	

DRILLED BY

SIGNED

DIAMOND DRILL RECORD

PROPERTY ATLIM RUFFNER - MONTGOLFIER IRON PROPERTY HOLE NO. A-2

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No	WIDTH OF SAMPLE	JACKETS width	SLUDGE GOLD \$
291 - 316	Magnetitic Argillite - as above. 90% strongly magnetic, 10% weak.	51	291-316	25	
316 - 371	Magnetitic Argillite - Tuff	52	316 - 26	10	
	Black strongly magnetic beds with green, chloritic non-magnetic tuff. Barren tuff 316 - 26 possibly a dyke,	53	326 - 53	27	
	338 - 42, 345.5 - 48, 350 - 53, 365 - 71.	54	353 - 71	18	
371 - 408	Magnetitic Argillite - Black fine argillite, banding at 60°. Generally strongly magnetic but scattered weak bands up to 1' wide, becoming more numerous down hole.	55	371 - 69	18	
		56	389-408	19	
408 - 460	Magnetitic Argillite - Argillite, black magnetite with numerous non-magnetic bands up to 2" wide. 10% non-magnetic 40% weak magnetic 50% strongly magnetic	57	408 - 30	22	
		58	430 - 50	20	
		59	450 - 60	10	
460 - 491	Magnetitic Argillite - strong to medium magnetism, less than 3% non-magnetic.	60	460 - 91	31	

DRILLED BY

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFENDE - MONTGOLFIER IRON PROPERTY HOLE NO. A-2

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	TESTED Width	SLUDGE GOLD \$
491 - 499	Tuff - green, fine to medium, barren	61	491-510	19	
499 - 564	Magnetitic Argillite - black to very dark rusty red because of fine jasper. Scattered quartz stringers, banding at 80° to core. Magnetism varies from strong to weak over widths up to 2'.	62	510 - 30	20	
		63	530 - 50	20	
		64	550 - 70	20	
		65	570 - 90	20	
564 - 569	Tuff - barren, green.				
569 - 591	Magnetitic Argillite - black to rusty red as above, weak to strong magnetism	66	590-610	20	
		67	610 - 30	20	
		68	630 - 50	20	
591 - 650	Magnetitic Argillite - black to dark rusty red, a few barren argillite bands less than 1/2" wide. Strong to weak magnetism. Lost core 614 - 15 634 - 38 green argillite - very weak magnetism.				
650 - 658	Tuff - green, totally barren	69	650 - 70	20	
658 - 669	Magnetitic Argillite - as above				

DRILLED BY

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DIAMOND DRILL RECORD

PROPERTY ATLIN-BUFFER - MONTGOMERY IRON PROPERTY HOLE NO. 1-2

SHEET NUMBER 4 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	CORRECTION SLUGS	SLUDGE GOLD %
669 - 716	Magnetitic Argillite - Argillite, interbedded, black,	70	670 -90	20	
	strongly magnetic and gray non-magnetic bands each	71	690 -710	20	
	about 50%. Bands vary from less than 1/2" to 2".				
	Lost core 676.5 - 78				
	679 - 6" quartz stringers				
	686 - 6" " "				
716 - 776	Magnetic Argillite - Argillite as above but increasing	72	710 -30	20	
	magnetite bands, 70% strongly magnetic.	73	730 -50	20	
	768 - 69 basic lava, barren	74	756 -76	26	
776 - 794	Basic Lava - dark green, medium grain, light				
	flecking, contact 45° parallel to bedding. Barren	75	776 -94	18	
	789 - 89.5 magnetitic argillite.				
	793 - 94 White quartz in contact.				
794 - 846	Magnetitic Argillite - Tuff, black, strongly magnetic	76	794 -810	16	
	bands alternating with green to gray barren tuff or	77	810 -90	20	
	thin lava flows.	78	830 -46	16	
	Lost core 811 - 12, 818 - 19,				
	Barren tuff 798 - 800, 807 - 09, 811.5 - 12.5, 813.5 -				

DRILLED BY

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - MONTGOLFIER IRON PROPERTY HOLE NO. A - 2

SHEET NUMBER 5 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	Sluice Width	SLUDGE GOLD g
	15.5, 816 - 17, 825 - 30, 835 - 37.				
846 - 871	Tuff - bright green, coarse. Black strongly magnetic bands at 855 - 55.5, 864 - 65, 866 - 68.	79	846 - 71	25	
871 - 893	Magnetitic Argillite - dense black, fine grain, almost all strongly magnetic.	80	871 - 79	8	
	874 - 878.4 white quartz several small tuff inclusions	81	879 - 93	14	
	892 - 92.5 Fine tuff				
893 - 903	Tuff - as above, totally barren	82	893 - 903	10	
903 - 948	Magnetitic Argillite - tuff, interbedded gray to greenish tuff and black magnetitic beds. Magnetism strong to medium.	83	903 - 20	17	
	Barren tuff 921 - 21.5, 923 - 24, 924.5 - 27.5, 939.5 - 41.3.	84	920 - 48	28	
948 - 972	Magnetitic Argillite - Argillite - Black magnetitic bands interbedded with green barren argillite increasing down hole. 70% strongly magnetic.	85	948 - 72	24	

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - MONTGOLFIER IRON PROPERTY

HOLE NO. A-2

SHEET NUMBER 6

SECTION FROM _____ TO _____

STARTED _____

LATITUDE _____

DATUM _____

COMPLETED _____

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH _____

ELEVATION _____

DIP _____

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	RECORD WIDTH	SLUDGE GOLD \$
972 - 1000	Argillite - Magnetite bands decreasing rapidly down becoming less than 10% after 980.	86	972 - 90	18	
1000	END OF HOLE				
	<u>Dip Tests</u>				
	180 - 45°				
	400 - 37°				
	600 - 28°				
	800)				
	1000) will follow				

DRILLED BY _____

SIGNED _____

Ray B. Mulford

300
0-300 in claim 3 - 113453

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUPPNER - Montgolfier Twp. Iron

HOLE NO. A-3

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED Feb. 20, 1957

LATITUDE 2965 North

DATUM _____

COMPLETED Mar. 1, 1957

DEPARTURE 4000 East

BEARING South

ULTIMATE DEPTH 1335

ELEVATION --

DIP Coll. - 45° 200 - 37° 400 - 49°
400 - 24° 500 - 16°

PROPOSED DEPTH _____

95587

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD S	SLUDGE GOLD S
0 - 130	CASING - Clay overburden				
130 - 174	ARGILLITE - Green, fine-grain, thin bedding at 45°. No magnetite. Scattered pyrite cubes.				
174 - 198	ARGILLITE - Magnetitic Argillite - Black magnetic bands with barren argillite as above. Magnetism increasing rapidly down hole.				
	174-184 - 25% moderately magnetic		P & T WIDTH		
	184-198 - 50% strongly magnetic	87	184-200	10	
198 - 268	MAGNETITIC ARGILLITE - Black, fine-grained, frequent jasper bands up to 1/2" wide. Frequent argillite bands usually less than 1/2" wide occasionally up to 3 ft. Bedding at 45°. Magnetism strong to medium. Barren tuff or argillite - 207.5-208.5, 211-217, 225-227 mostly quartz, 239-240, 241-242, 267-267.3	88	200-220	20	
		89	220-240	20	
		90	240-260	20	
268 - 346	MAGNETITIC ARGILLITE - Black, fine-grained. medium to weak magnetism occasionally becoming strong over 1ft. widths. Widely scattered barren bands. Barren - 289-290.5, 296-297	91	260-280	20	
		92	280-300	20	
		93	300-315	15	
		94	315-334	19	
	315-334 Numerous barren 1/2" bands, magnetism generally weak.				

DRILLED BY _____

SIGNED _____



DIAMOND DRILL RECORD

PROPERTY ATLIN BURFNER - Montgolfier Twp. Iron HOLE NO. A-3

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Width	SLUDGE GOLD %
346 - 351	TUFF - Green, barren. 350-51 White quartz 1" massive pyrite in contact.	95	334-351	17	
351 - 401	MAGNETITIC ARGILLITE - Black strongly magnetic bands with numerous jasper bands up to 1/2" wide and frequent 1/2" barren argillite bands. Also scattered tuff beds. Total non-magnetic about 20%. Lost Core: 387-388.	96	351-371	20	
	Tuff beds: 373-374, 388-389, 390-391, 400.5-401.	97	371-401	30	
401 - 453	MAGNETITIC ARGILLITE - Black, strong to medium magnetic bands with gray non-magnetic argillite up to 1/2" wide. About 15% non-magnetic. 325-330 a few jasper bands.	98	401-420	19	
		99	420-440	20	
		100	440-460	20	
453 - 659	MAGNETITIC ARGILLITE - Uniform black, fine-grain weak to strong magnetism. Less than 5% non-magnetic. 525-26 Soft magnetit gouge, water lost.	501	460-480	20	
		502	480-500	20	
		503	500-520	20	
		504	520-540	20	
		505	540-560	20	
		506	560-580	20	
		507	580-600	20	
		508	600-620	20	

95587

DRILLED BY _____ SIGNED _____

MINISTÈRE DES MINES
AUG 9 1957
3005-REC

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Twp. Iron HOLE NO. A-3

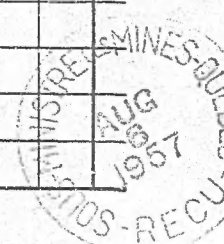
SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

9555/17

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$ WIDTH	SLUDGE GOLD \$
659 -- 699	ANDESITE - Green, chloritic, coarse, totally barren. Up hole contact irregular and intergrading over a few inches. Down hole contact sharp at 60° parallel to the bedding. Top to South?	509	620-640	20	
		510	640-659	19	
		511	659-699	40	
699 - 732	MAGNETITIC ARGILLITE - Generally as above. A few quartz stringers up to 1/2" wide.	512	699-732	33	
732 - 750	ANDESITE - As above. Totally barren	513	732-750	18	
750 - 763	MAGNETITIC ARGILLITE - As above	514	750-673	13	
763 - 809	ANDESITE - Pale green, medium grain, leucoxene flecking	515	782-809	46	
809 - 897	MAGNETITIC ARGILLITE - Black to dark rusty red because of fine jasper, weak to strongly magnetic. Scattered bands of gray argillite up to 1/2" wide. Non-magnetic less than 5%. Lost core: 851-52, 858-60, 862-65, 880-81.	516	809-825	16	
		517	825-845	20	
		518	845-865	20	
		519	865-885	20	
897 - 900	VAGGY WHITE QUARTZ - A FEW SPECKS OF PYRITE and galena.	520	885-900	15	
900 - 964	MAGNETITIC ARGILLITE - about 50% quartz stringers and barren argillite. Quartz stringers up to 6" wide. 935-38 - White quartz. 940-55 75% magnetic.	521	900-920	20	
		522	920-940	20	
		523	940-960	20	

DRILLED BY

SIGNED



DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - MONTGOLFIER TWP. IRON

HOLE NO. A - 3

SHEET NUMBER 5

SECTION FROM _____ TO _____

STARTED _____

LATITUDE _____

DATUM _____

COMPLETED _____

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH _____

ELEVATION _____

DIP _____

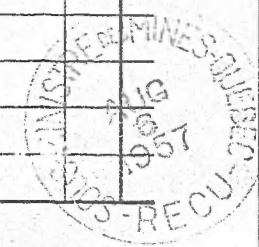
PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
1020 - 1144	- - - Barren Tuff 1131-32, 1140-43 Lost core 1134-35	531	1100-20	20	
1144 - 1182	MAGNETITIC ARGILLITE - Black to dark rusty red. Thin bedding at 70°. Medium to weak magnetism. Red jasper and scattered barren argillite. About 15% non-magnetic. Barren tuff 1153-54, 1163-64.	533 534	1140-60 1160-80	20 20	
1182 - 1292	TUFF - Magnetitic bands - interbedded as above, strong to weak magnetism. Barren tuff or lava 1182-83, 1186-90, 1195-97, 1200-02, 1206-25, 1230-34, 1237-42, 1265-66, 1267-70. Lost core 1283-85.	535 536 537 538 539	1180-95 1195-06 1206-25 1225-45 1245-65	15 16 19 20 20	
1292 - 1335	ARGILLITE - Pale green, probably part tuff, sparsely scattered black magnetite bands up to 1' wide.	582	1265-92	27	
1335	END OF HOLE.				

95537

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFENER - Montgolfier Twp. Iron

HOLE NO. A - 4

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED _____

LATITUDE 260 North

DATUM _____

COMPLETED _____

DEPARTURE 4000 East

BEARING South

ULTIMATE DEPTH _____

ELEVATION _____

DIP - 48

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0 - 134	CASING - 0 - 110 Clay 110 - 134 Gravel and sand				
134 - 160	TUFF - Green, fine grain, faint banding at 30° to core. Lost core: 145-48				
160 - 184	TUFF - Pale green, angular to rounded spots up to 1/4" diameter.				
184 - 276	TUFF - Green, faint bedding as above, scattered pyrite. Becoming massive down hole with little evidence of bedding.				
	248 - 250 Mud, broken core, 2' lost.				
276 -	TUFF - as above with scattered magnetite bands up to 1" wide, about one each 10 feet. 336 - 349 Fine leucoxene speckling.				
	(Hole continuing)				

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DIAMOND DRILL RECORD

PROPERTY ATLIM-BUEFFNER - MONTCALEIR TWP. IRON HOLE NO. A-4

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
<u>276 - 437</u>					
<u>437 - 550</u>	TUFF - ARGILLITE - Interbedded gray to green argillite with coarse green tuff. Thin bedding at 55°. Scattered black magnetic bands up to 2" wide, about two every 5 feet. 485-56 Magnetite, large cubes of pyrite 522-38 Coarse massive tuff. Lost core 475-77, 504-05, 547-49.				
<u>550 - 583</u>	ARGILLITE TUFF - Increasing argillite, also increasing magnetite in bands up to 1' wide with numerous small pyrite grains. About 10% magnetic. Lost core 559-60.				
<u>583 - 601</u>	TUFF - Coarse green, chloritic, numerous quartz stringers. Banding at 60°				
<u>601 - 654</u>	TUFF - Magnetitic Argillite. About 15% magnetic in beds up to 2' wide. Tuff green, frequently with small square to oval specks with dark alteration haloes. Banding at 60° to core.	578	634-54	20	
<u>654 - 696</u>	MAGNETITIC ARGILLITE - Black to rusty red because of fine jasper. Possibly slightly coarser than usual. Numerous barren argillite bands up to 1/2" wide Scattered barren tuff up to 2' wide.	579 580	654-76 676-96	22 (5' removed) 20	

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DIAMOND DRILL RECORD

PROPERTY ATLIN-BUFFNER - MONTOLFIE TWP. IRON HOLE NO. A-4

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	Total non-magnetic about 20%. Barren tuff 666-67, 673-74; 690-92; 692-93 - white quartz.				
	Lost core 672-73, 677-78, 695-96.				
	5 feet 659 - 664 sent to Maxwell Guthrie.				
696 - 737	TUFF - Magnetite bands - predominantly green barren tuff Scattered black strongly magnetic bands up to 1" wide decreasing in number and width down hole. Scattered pyrite cubes. 696 - 708 about 25% strongly magnetic. 708 - 732 less than 10% magnetite 732 - 735 over 75% strongly magnetic. Lost core 742-26	581	696-716	20	
737 - 761	TUFF - Argillite - generally interbedded barren green tuff and argillite. Bedding at 80° to core. Scattered black magnetite bands up to 1" wide. Total magnetics less than 5%. 760 - 61 75% strongly magnetic.				
761 - 934	TUFF - light green, fine to medium grain, faint bedding at 80°. No magnetism whatever. Lost core 764-66, 784-86, 787-89. 791-92 core left in hole and redrilled. 884-87 md., gangue, 2' core lost.				
934 -	TUFF - green fine grain, widely scattered, magnetite bands up to 1/4" wide, about one every 5 feet.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - MONTGOLFIER TWP. IRON

HOLE NO. A - 4

SHEET NUMBER 5 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	Lost core 937-40, 941-43 core left in hole and ground on redrilling.				
972 - 1046	TUFF - Magnetite Argillite - green tuff as above with increasing bands of magnetite up to 6" wide. About 10% magnetic. Lost core 1013-15, 1020-21, 1026-28, 1032-38, 1042-43.				
1046 - 1099	MAGNETITIC ARGILLITE - Black to rusty red, thin bedding at 80° to core. Scattered barren beds up to 2' wide.	583	1046-63	17	
	Magnetism medium to weak. Lost core 1055-57, 1069-71, 1077-78.	584	1063-80	17	
		585	1080-1100	20	
1099 - 1149	MAGNETITIC ARGILLITE - TUFF - Interbedded coarse barren green tuff and dark rusty red magnetite beds.	586	1100-20	20	
	Magnetism strong to medium. Banding 80 to 90° to core.	587	1120-40	20	
	Barren tuff 1099-1103, 1113-19, 1120-23, 1131-32, 1141-43, 1147-49. Lost core 1133-34, 1138-39.	588	1140-60	20	
1149 - 1209	MAGNETITIC ARGILLITE - Black to rusty red. Banding 80 to 90° to core. 90% magnetic medium to weak.	589	1160-80	20	
	Magnetic bands decrease slightly down hole but magnetism becomes stronger.	590	1180-1200	20	
		591	1200-20	20	
		592	1220-40	20	
	Barren Argillite 1193-94, 1232-33, 1275-77.	593	1240-60	20	
		594	1260-80	20	

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DIAMOND DRILL RECORD

PROPERTY ATLIN RUFFNER - MONTGOLFIER TWP. IRON HOLE NO. A-4

SHEET NUMBER 6 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
1309 - 1358	MAGNETITIC ARGILLITE - TUFF	595	1280-1300	20	
	Dark rusty red, strong to medium magnetic, with light	596	1300-20	20	
	green tuff. Barren tuff beds 1309-10, 1312-13, 1320-	597	1320-40	20	
	24, 1340-48, 1354-55, 1356-57.	598	1340-60	20	
1358 - 1413	TUFF - Sparse magnetitic argillite, as above but mostly				
	tuff. Magnetic beds 1366-68, 1373.5-75, 1379-79.5,				
	1383-85, 1389-91; also a few narrow bands to end of				
	hole.				
1413	END OF HOLE				
	<u>DIP TEST</u>				
	Collar - 48°				
	200 - 45°				
	400 - 34°				
	800 - 18°				
	1200 - 13°				
	1400 - 6°				

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SIGNED Ray L. Medford

DIAMOND DRILL RECORD

PROPERTY ATLIN-SUPPER - Montgolfier Twp, Ibon

HOLE NO. A - 5

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED Feb. 21, 1957

LATITUDE 2300 South and

DATUM Centre Base Line at River

COMPLETED _____

DEPARTURE 2200 East of W. end of centre
base line

BEARING ~~South West~~ South West

ULTIMATE DEPTH _____

ELEVATION _____

DIP Coll. - 45

PROPOSED DEPTH 1125

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD S	SLUDGE GOLD S		
0 - 174	CASING - 0 - 125 Clay 125 - 174 Sand and gravel			WIDTH			
174 - 187	ARGILLITE - Thin bedded argillite, green with a few black magnetic bands. Banding at 60°- 80° to core.						
	magnetic bands 175-77, 183-84						
187 - 220	MAGNETIC ARGILLITE - Thin bedded black strongly magnetic and gray non-magnetic. Total non-magnetic about 25%. 210 - 219 sheared and badly broken core, hole cemented.	540	183-200	17			
		541	200-220	20			
220 - 323	MAGNETIC ARGILLITE - as above but increasing non-magnetic bands. About 50% non-magnetic. Banding at 45°. 268 - 70 Contorted banding	542	220-240	20			
		543	240-260	20			
		544	260-280	20			
323 - 341	ARENOSSE - Rusty red, quartz grains, feldspar and odd specks of magnetite. Numerous irregular wuggy quartz stringers.	545	323-300	20			
		546	300-323	23			
		547	323-341	18			
341 - 356	MAGNETIC ARGILLITE - Thin bedded as above. About 75% strongly magnetic. 349.5 - Two fine stringers of chalcopryite.	548	341-56	15			
356 - 374	ARENOSSE - as above. 363-65 Black, strongly magnetic	549	356-374	18			
374 -	MAGNETIC ARGILLITE - thin bedded, magnetic and non-magnetic as above, bedding at 60°.	550	374-400	26			

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - MONTGOLFIER TWP. IRON HOLE NO. A - 5

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %		
374 - 538	- - - Barren tuff - 464-66, 529-31.5, 532-34.5, 537.5-38	556	500-20	20			
538 - 590	MAGNETIC ARGILLITE - Alternating non and strongly magnetic bands up to 1" wide. About 25% non-magnetic	558	520-38	18			
	Banding at 45° to core. Lost core 553-55	559	538-50	12			
		560	550-70	20			
590 - 630	MAGNETIC ARGILLITE - generally as above but about 50% non or weak magnetic. 590-600 contorted bedding becoming 70° to 80° thereafter.	561	570-90	20			
		562	590-610	20			
630 - 663	MAGNETIC ARGILLITE - tuff, black to gray banded argillite, bright green, coarse, barren tuff.	563	610-30	20			
	Tuff 630-35, 645-47.5, 651-52, 662-63	564	630-50	20			
		564	650-63	13			
663 - 703	MAGNETIC ARGILLITE - alternating 1/4" bands, magnetic and non-magnetic at 80° to core. Magnetism generally medium. 676-77 barren argillite. Lost core 664-67, 670-71.	565	663-83	20			
		566	683-703	20			
703 - 792	TUFF - Magnetic Argillite - Black strongly magnetic with barren coarse green tuff.	567	703-23	20			
		568	723-43	20			
	Tuff bands - 703-06, 712-14, 715-16, 724-25, 743-51, 758-63, 769-74, 787-92. Lost core 739-43	569	743-63	20			
		570	763-92	29			
792 - 924	MAGNETIC ARGILLITE - Alternating thin bands as above. 15 - 20% non-magnetic. Lost core 798-99, 806-07.	571	792-810	18			
		572	810-30	20			

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DIAMOND DRILL RECORD

PROPERTY ATLIN PIPELINE - MONTELEONE IRON HOLE NO. 1-5

SHEET NUMBER 4 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
	823-29, 864-65, 872-73, 877-78, 886-88.	573	830-50	20	
	Barren tuff - 829-32, 840-41, 889-90, 906-07.	574	850-70	20	
924 - 1045	ARGILLITE - Gray-green, non-magnetic with scattered black magnetic bands. About 80% non-magnetic and increasing down hole.	575	870-90	20	
		576	890-910	20	
		577	910-25	15	
1046	END OF HOLE.				
	<u>Dip Tests</u>				
	Collar - 45°				
	200 - 38°				
	400 - 34°				
	600 - 33°				
	800 - 31°				
	1000 - 29°				

DRILLED BY _____

SIGNED Ry K. Medford

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - MONTGOLFIER TWP. IRON

HOLE NO. A - 6

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED March 14, 1957

LATITUDE 2950 North

DATUM _____

COMPLETED March 28, 1957

DEPARTURE 5200 East

BEARING South

200	-40	800	-29
100	-35		
600	-33	1000	-24
		1200	-24

ULTIMATE DEPTH 1328

ELEVATION _____

DIP Coll. -45

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	ROCK WEAR	SLUDGE GOLD \$
0 - 120	CASING				
120 - 123	TUFF - Green, thin bedding at 45°				
123 - 207	MAGNETITIC ARGILLITE - Argillite, interbedded black strongly magnetic with gray non-magnetic. Numerous jasper bands up to 1/2" wide. Bedding at 45°.	201	123 -70	47	
	Barren Argillite 128-30, 132-33, 134-36, 141-48, 150-53, 154-55, 157-58, 159-60, 166-69, 170-71, 172-73, 175-76, 179-80, 181-83, 185-86, 189-90, 191-92, 194-95, 202-04, 206-07.	202	170-207	37	
207 - 250	MAGNETITIC ARGILLITE - Black to dark red because of fine jasper. Scattered barren gray bands up to 1/2" wide. Banding at 45 to 50°. Magnetism strong to medium.	203	207 - 50	43	
250 - 355	MAGNETITIC ARGILLITE - Black, strong to medium magnetism. Scattered gray bands up to 1/2" wide; also a few green tuff beds and very sparse jasper.	204	250 - 85	35	
	Tuff - 266-67, 270-71, 276-77	205	285-310	25	
	Non-magnetic to weak 285-90, 291-92, 260 6" quartz stringer with pyrite.	206	310 - 55	45	
	293-98 Scattered 1/2" contorted jasper bands.				
	Barren Argillite 298-302, 305-09.				

N.M.P., TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY _____

SIGNED _____

DIAMOND DRILL RECORD

PROPERTY ATLIS-BLENNER - MONTOLFINE TWP. ONT. HOLE NO. 4-6

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$ WIDTH	SLUDGE GOLD \$
355 - 376	MAGNETIC ARGILLITE - Thin bedded, black with frequent red jasper bands up to 1/2". Bedding usually at 45° but locally contorted. Magnetism strong to weak.	207	355 - 76	21	
376 - 394	TUFF - Green to gray, fine to coarse speckled. Black strongly magnetic bands 382-83, 386-87, 392-93.	208	376 - 94	18	
394 - 470	MAGNETIC ARGILLITE - as above. 443 - 470 Contorted and crumpled bedding. Strongly magnetic. 455-52.5 Barren argillite or tuff.	209	394-432	38	
470 - 488	TUFF - Coarse granular green. 473-75 Mostly white quartz. 483-85 Black strongly magnetic.	210	432 - 70	38	
488 - 558	MAGNETIC ARGILLITE - Black, generally strongly magnetic, banding at 50° to core. Sparse jasper. Scattered barren beds. Barren 501-02, 523-24, 525-26, 532-35, 539-40, 542-46, 551-53.	211	470 - 88	18	
558 - 578	SPECKLED TUFF ? - Fragmental appearance; light green with dark green oval to angular spots up to 1/2" diameter.	212	488-520	32	
578 - 600	INTERBEDDED MAGNETIC ARGILLITE - Tuff. About 40% barren green tuff with black strongly magnetic beds. Frequent 1/2" jasper bands.	213	520 - 58	38	
		214	558 - 78	20	
		215	578-600	22	

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DIAMOND DRILL RECORD

PROPERTY ATLIN-BUFFER - MONTGOLFIER TWP. IDON HOLE NO. A - 6

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	THICKNESS WIDTH	SLUDGE GOLD %		
600 - 699	MAGNETITIC ARGILLITE - 50% strongly magnetic. 30% medium to weak. 20% practically non-magnetic. A few jasper bands in first 16 ft.	216	600 - 50	50			
699 - 745	MAGNETITIC ARGILLITE - 80% strong to medium magnetic with barren bands less than 1" wide. Numerous jasper bands up to 1,2" wide. Bedding at 60° to core.	217 218	650 - 99 699-726	49 27			
	726 - 745 about 20% white quartz stringers with very very strongly magnetic bands.	219	726 - 45	19			
745 - 784	ANDESITE PORPHYRY - Mottled light to dark green, dihedral feldspar phenocrysts up to 1/8" square. Up hole contact irregular, down hole at 60° parallel to bedding.	220	745 - 84	39			
784 - 890.5	MAGNETITIC ARGILLITE - Dark rusty red to black. Magnetism medium to weak. About 10% narrow non-magnetic bands. Scattered jasper bands	221 222	784-840 840-90	56 50			
890.5 - 908	SPECKLED TUFF - light green, with angular dark green speckling, fragmental appearance varies from fine to coarse. 894-96 Black strongly magnetic.	223	890-908	18			
908 - 992	MAGNETITIC ARGILLITE - Tuff. Dark rusty red to black, very strongly magnetic bands with gray tuff or argillite. Frequent jasper bands to 1/2" wide.	224	908 - 50	42			

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DIAMOND DRILL RECORD

PROPERTY ATLID-RUPPNER - MONTGOMERY TWP. IRON

HOLE NO. A - 6

SHEET NUMBER 4 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	ROUNDER LITH	SLUDGE GOLD %
	Barren tuff 910-11, 914-15, 922.5-24, 936-37, 947-49, 951-52, 954-55, 954-57, 960-61, 972-74.5. White quartz 975-78, 980-81. 970-97 Crumpled oval contorted bedding.	225	950 - 92	42	
992 - 1045	MAGNETITIC ARGILLITE - Black to dark rusty red. Thin bedding at 50° to core. Jasper bands at contact dying out down hole. Strong to weak magnetism, decreasing down hole. Barren argillite 1001-02.	226	992-1045	53	
1045 - 1075	ANDESITE - Barren 1045-1068 mottled light and dark green medium grain. 1068-68.5 Black, magnetic. 1068.5-1075 Gray-green fine grain, probably tuff or argillite.	227	1045-75	30	
1075 - 1134	MAGNETITIC ARGILLITE - Black thin bedding at 50°. Medium to weak magnetism.	228	1075-1125	50	
1134 - 1139	TUFF - barren, green, a few quartz stringers.				
1139 - 1177	MAGNETITIC ARGILLITE - 90% black, strong to medium magnetic. Scattered 1/2" barren gray bands at 45 to 50° to core. Barren 1153-54.	229	1125-77	52	
1177 - 1204	ARGILLITE WITH MAGNETITE - gray finely granular argillite with relatively coarse magnetite as grains through	230	1177-1204	27	

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DIAMOND DRILL RECORD

PROPERTY ATLIE-BUPHER - MONTOLFIER TWP. IRON HOLE NO. A-6

SHEET NUMBER 5 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD & SILVER	SLUDGE GOLD %
	It and as high grade bands up to 1' wide. Total magnetite about 25 to 30%. Practically barren 1188-92, 1200-04, 1203.5-04, 75% pyrite.				
1204 - 1230	MAGNETITIC ARGILLITE - Black fine grain, strong to weak magnetic. About 10% gray barren bands up to 1/2" wide at 45° to 50°. Lost core 1212-13, 1216-17.	231	1204-30	26	
1230 - 1328	MAGNETITIC ARGILLITE - Tuff - increasing barren gray bands and tuff. About 50% barren, magnetism often weak. Barren tuff 1237-40, 1243-47, 1265-67, 1299-1303, 1311-24, 1326-28. 1299-28 very weak magnetism. Lost core 1259-60, 1261-82, 1319-20.	232	1230-70	40	
		233	1270-1311	61	
1328	END OF HOLE.				

DRILLED BY _____

SIGNED Roy K. Medford

DIAMOND DRILL RECORD

PROPERTY ATLINSBURGER - MONTGOMERY TWP. IRON HOLE NO. A - 7

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED March 16, 1957
 LATITUDE 500 South DATUM _____ COMPLETED March 27, 1958
 DEPARTURE 1200 East BEARING South ULTIMATE DEPTH 937
 ELEVATION _____ DIP Coll. -45° 200 -42 600 -27 PROPOSED DEPTH _____
400 -34 800 -19

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLDS	SLUDGE GOLD \$
0 - 121	CASING			WIDTH	
121 - 198	ANDESITE - medium grain, green chloritic, scattered small pyrite cubes. Sometimes vague banding - tuff ?				
198 - 261	TUFF - dark green, fine banding at 45°. Widely scattered black magnetic bands up to 1" wide. About one every ten feet.				
261 - 345	TUFF - as above with increasing magnetic bands. About 10% magnetic. Lost core 267-68. 321-345 increasing magnetics in bands up to 2" wide.				
345 - 392	MAGNETIC ARGILLITE - Tuff - dark rusty red magnetic bands with barren tuff or argillite. 20% non-magnetic. Barren tuff 356-58, 360-61, 365-73, 375-76.				
392 - 416	TUFF - Magnetitic Argillite - green fine to medium tuff, about 20% magnetic bands up to 1" wide, decreasing down hole.				
416 - 459	TUFF - green tuff as above, widely scattered magnetite bands up to 1" wide. Lost core 441-42, 449-51, 452-53.				
459 - 554	MAGNETITIC ARGILLITE - Black to rusty red, frequent barren bands of gray argillite and red jasper usually less than 1/2" wide. Magnetism strong to medium decreasing down hole.	234	459 - 01	50	

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DIAMOND DRILL RECORD

PROPERTY ATLIN-HUFFNER - MONTGOLFIER IRON

HOLE NO. A - 7

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	PERCENT MAGNETISM	SLUDGE GOLD %
	460-68 about 50% barren	235	502 - 51	45	
	470-74 barren green tuff				
	483-85 red jasper				
	502-530 core shattered and sheared.				
	Barren tuff or argillite 492-5-94.5, 499-500, 505-07, 517-18. Lost core: 498.5-99, 519-21, 553-54.				
554 - 575	TUFF - green, coarse, badly sheared and broken, a few magnetite bands. Lost core 560-62, 565-67.	236	554 - 75	21	
575 - 785	MAGNETITE SLATE - black to rusty red, well developed slate cleavage at 80° to core. Magnetism strong in contact becoming medium to weak down hole. About 10% barren bands up to 6" wide. Lost core 608-09, 634-36, 647-49, 693-95, 697-98, 783-85.	237	575 - 620	45	
	Barren tuff 621-26.5, 628-29, 636-38, 644-45, 696-97, 704-06, 719-21, 731-33.	238	620 - 75	55	
	757-761 very weak magnetism.	239	675 - 833	58	
	762-765 rusty red arkose, barren.	240	733 - 85	52	
785 - 830	MAGNETITE SLATE - generally as above but core shattered into thin circular cleavage fragments. Much lost core. Lost core 793-95, 804-05, 806-07, 812-14, 816-17, 826-27.	241	785 - 830	45	

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DIAMOND DRILL RECORD

PROPERTY ATLON SUPERIOR - MONTICELLES TWP. ILLINOIS HOLE NO. A - 7

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	CORRECTION	SLUDGE GOLD \$
830 - 923	TUFF - Magnetitic Argillite - Interbedded, weak to strong magnetism. 830-40 badly sheared and broken. Lost Core 837-38, 886-87. Barren tuff 831-33, 840-41, 842-43, 844-45, 848-50, 851-52, 853-60, 866-67, 885-86, 895-96, 905-07, 910-12.	242	830 -75	45	
		243	875 -923	48	
923 - 937	TUFF - green, fine grain, banding at 80°. Scattered magnetic bands 1 to 2 inches wide.				
937	END OF HOLE.				

N.M.P., TORONTO - STOCK FORM NO. 501 REV. 12/51

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Twp. Iron

HOLE NO. A - 8

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED March 26, 1957

LATITUDE 1600 North

DATUM _____

COMPLETED April 4, 1957

DEPARTURE 11200 East (on P.L. 29)

BEARING South

ULTIMATE DEPTH 963

ELEVATION _____

DIP Coll. - 45° 200 - 42° 600 - 26°
 400 - 40° 800 - 20°
 963 - 17°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	WATER GELS WIDTH	SUBSTRATE CORRECTION & PK			
0 - 85	CASING							
85 - 206	ARGILLITE - Magnetic Argillite - Thin banded at 45° . About 30% to 50% black strongly magnetic with thin barren bands of argillite and tuff. 85 - 110 Core shattered and weathered Lost core 94-96, 104-106, 109-110	244	175-206	31				
206 - 232	MAGNETIC ARGILLITE - Black, strong to medium magnetic, scattered barren bands. Barren tuff or argillite 209- 10, 225-26.	245	206-232	26				
232 - 246	TUFF - dark green, coarse. 242-46 about 50% black magnetic. Lost core 232-233.	246	232-246	14				
246 - 436	MAGNETIC ARGILLITE - Black to rusty red, strong to weak magnetism, a few barren bands. Lost core 273-74, 282-84. Barren 268-70, 358-59, 360-61, 365-66 300 - 400 Magnetism generally medium to weak. Well developed slate cleavage at 50° . Lost core 351-52, 361-63, 383-84. Barren white quartz 398-99, 400-01 400 - 436 medium to very strong magnetism, numerous quartz stringers. 416-18 white quartz, contacts very magnetic.	247 248 249 250	246-300 300-350 350-400 400-436	54 50 50 36				

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DIAMOND DRILL RECORD

PROPERTY ATLIN- RUPNER - Montgolfier Twp. Iron

HOLE NO. A - 8

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	TEST Width	ANALYSE GOLD g		
436 - 461	MAGNETIC ARGILLITE - Tuff Black to rusty red, possibly some hematite. Tuff green, fine to coarse, numerous quartz stringers up to 1' wide. Tuff 436-40, 443-44, 446-48, 452-54, 455-56.5. W 456 - White quartz with large blebs of hematite	251	436-451	25			
461 - 505	TUFF - Green, fine to coarse, frequent small feldspar microcrysts. Possibly part lava. Totally barren	252	461-505	44			
505 - 519	TUFF - Magnetitic Argillite - Mainly green tuff as above. Weak to strong magnetic bands 505-08, 512-15, 516-17, 518-18.5.	253	505-539	34			
519 - 539	TUFF - as above						
539 - 558	MAGNETIC ARGILLITE - Black to rusty red, banding at 50°. Medium to weak magnetism. Scattered barren bands up to 6" wide.	254	539-558	19			
558 - 573	TUFF - as above, 561-62 white quartz, 570-73 white quartz, hematite in contact.	255	558-573	15			
573 - 623	MAGNETIC ARGILLITE - Tuff. Black to rusty red, strong to weak magnetism, scattered barren tuff beds. Tuff 577-84.5, 593-94, 596-98, 613-15. Last core 594-95, 603-04, 607-08	256	573-623	50			
623 - 661	TUFF - light to dark gray, coarse to fine, fragmental appearance.	257	623-661	38			

DIAMOND DRILL RECORD

PROPERTY ATLIM RIFFNER - Montgolfier Twp. Iron HOLE NO. 3 - 3

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	CORRECTION WIDTH	SLUDGE AVAILABLE
661 - 697	MAGNETITIC ARGILLITE - Black to rusty red, banding at 60°. Scattered barren bands. Strong to medium magnetism, decreasing down hole. Barren tuff 673-74, 685-88, 693-95, 696-97 690 - 85 Black, very weak magnetism, probably mostly hematite. Lost core 696-97.	258	661-697	36	1/8 FT
697 - 776	MAGNETITIC ARGILLITE - Black to rusty red, strong to medium magnetism. About 10% gray barren bands up to 1/2" wide. Barren tuff 734-35. 742-48 Vuggy white quartz, contacts very strongly magnetic for 5 feet on either side.	259	697-736	39	
776 - 816	MAGNETITIC ARGILLITE - Tuff. Black to rusty red, well developed slate cleavage, magnetism medium to weak, interbedded green coarse tuff. Tuff 776-79, 781-83, 789-90, 797-98, 805-07, 809-10, 811-12, 815-15.5. Lost Core 813-14.	260	736-776	40	
816 - 963	TUFF - Green, fine to coarse, scattered magnetite bands. Magnetite 831-31.5, 833-34, 836-37, 845-46, 862-63, 867-68, 876-79, 880-81, 890-91. Lost core 892-93. 892-96; Scattered magnetite bands up to 6" wide, becoming less down hole.	261	776-816	40	

N.M.P., TORONTO-STOCK FORM NO. 501 REV. 12/51

963 END OF HOLE.

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Ray K. Medford

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER, Montgolfier Iron Property HOLE NO. A - 9

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	MAGNETIC WIDTH	MAGNETIC GOLD %
340 - 365	TUFF - Green, coarse to fine grain. 351-56 Magnetic, banding at 30°	267	340-365	25	
365 - 476	MAGNETIC ARGILLITE - Thin banding at 50°. Magnetism weak to medium. Scattered barren bands 1/2". Lost Core 429-30, 440-41.	268 269	365-420 420-476	55 56	
476 - 506	MAGNETIC ARGILLITE - Tuff. Black, banding at 60°. Strong to medium magnetism. Coarse gray to green tuff. Tuff 476-77, 480-84, 487-91, 498-500. Lost core 493-95, 504-06.	270	476-506	30	
506 - 586	MAGNETIC ARGILLITE - varies from black strongly magnetic to dark gray weak magnetic. Weak magnetism 509-20, 523-26, 536-38, 542-46, 552-56, 569-70, 586-87. 579-80, 581-82. Lost core 583-84. Coarse green tuff 585-86.	271 272	506-546 546-586	40 40	
586 - 660	MAGNETIC ARGILLITE - Black strongly magnetic with about 30% gray weak magnetic. Magnetism decreasing down hole. Barren tuff 627-29. Red jasper 653-54. Lost core 588-89.	273 274	586-626 626-660	40 34	
660 - 710	MAGNETIC ARGILLITE - Black to rusty red. Medium to weak magnetic. Banding at 70°. Barren tuff 676-81, 706-08. Lost core 694-95.	275	660-710	50	

DIAMOND DRILL RECORD

PROPERTY ATLEX MONTGOMERY - Montgolfier Iron Property HOLE NO. 1-9

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	MAGNETIC WIDTH	BRIDGE GOLD % Fe
710 - 740	MAGNETITIC ARGILLITE - Black, generally medium magnetic, barren tuff 725-26, lost core 729-30.	276	710-740	30	
740 - 832	MAGNETITIC ARGILLITE - Black, medium to strong magnetic with gray weak to non-magnetic. Scattered red jasper bands. Barren 746-50, 753-54, 767-69, 771-74, 788-89, 790-93, 796-99, 800-01, 823-24, 825-31. Lost core 766-67	277 278	740-795 786-832	46 46	
832 - 960	MAGNETITIC ARGILLITE - Tuff - Black with scattered gray bands less than 1/2" wide at 80° to core. Magnetism generally strong. Frequent coarse green tuff beds.	279	832-880	48	
960	Tuff 891-93, 848-50, 862-64, 871-73, 874-79, 893-94, 899-900, 906-07, 907-12, 920-24, 931-32, 941-46, 955-57.5. Scattered pyrite crystals 946-50.	280 281	880-920 920-960	40 40	
960 - 985	MAGNETITIC ARGILLITE - Black to dark rusty red, strong to medium magnetic. Bending at 80°. A few narrow tuff beds. Tuff 982-81.	282	960-985	25	
985 - 1023	MAGNETITIC ARGILLITE - Dark rusty red, with well developed slate cleavage, core generally broken into circular cleavage fragments. 20% barren grey argillite. Magnetism medium to weak. Barren 998-1001.	283	985-1023	38	
1023 - 1032.5	AMPHIBOLE PORPHYRY - Gray green, medium grain. Fine metacrysts.	284	1023-79	56	

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER MONTGOLFIER TWP. PROP.

A-10

HOLE NO. _____

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED April 1, 1957

LATITUDE 1900 North

DATUM _____

COMPLETED April 8, 1957

DEPARTURE 7200 E (or P.L.19)

BEARING South
200 - 38, 600 - 35

ULTIMATE DEPTH 991'

ELEVATION _____

DIP Coll.-45 400 - 35, 800 - 31
990 - 29

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %
0 - 155	CASING				
155 - 295	TUFF - Green to dark green, banding at 35° to core. Occasionally a little weak magnetism				
295 - 342	TUFF - Green, fine grain, frequent black strongly magnetic bands up to 2" wide. Banding at 40° to core.				
342 - 374	MAGNETITIC ARGILLITE - Black thin banding at 45° magnetism strong to weak. Scattered barren argillite and tuff beds. Barren Argillite - 358-60, 362 - 67 Barren Tuff - 370 - 74.	285	342-74	32	
374 - 424	MAGNETITIC ARGILLITE - 75% strongly magnetic 25% weak to non-magnetic in bands up to 2' wide.	286	374-24	50	
424 - 467	MAGNETITIC ARGILLITE - Black to dark rusty red widely scattered 1/2" barren bands. Medium magnetism.	287	424-67	43	
467 - 473	TUFF - Fine to coarse, gray to green. 472-73 white quartz.	288	467-17	50	
473 - 565	MAGNETITIC ARGILLITE - Black, strongly magnetic 10% gray barren bands usually less than 1/2" wide. Barren- 497-98, 502-03, 524-25, 529-32, 558-60	289	517-65		

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DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. A-10

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
565 - 579	TUFF - Green, fine grain, numerous quartz stringers.				
579 - 609	MAGNETITIC ARGILLITE - Black, thin banding at 45°, strong to medium magnetism. Barren Tuff 590-592.	290	565-79	44	
609 - 634	ANDESITE PORPHYRY - Green, small white feldspar phenocrysts. Scattered magnetite bands. Magnetite 614-15, 627-27.5, 628-31	291	609-34	25	
634 - 700	MAGNETITIC ARGILLITE - Black strongly magnetic interbedded with about 20% gray non-magnetic. Banding at 45°. Lost Core: 648-49, 654-55, Barren Tuff: 680-81.5, 692-98.	292	634-90	56	
		293	690-45	55	
700 - 798	MAGNETITIC ARGILLITE - Black, banding at 45° to 50°, medium to strong magnetism. Scattered barren green tuff beds. Tuff: 706-15, 731-39, 750-55, 769-71, 777-81, 789-91, 797-98.	294	745-98	53	
798 - 858	MAGNETITIC ARGILLITE - Very dark rusty red, fine banding at 45° to 50°. Magnetism medium. Scattered tuff - 821-29, 839-42.	295	798-58	60	
858 - 898	MAGNETITIC ARGILLITE - ARGILLITE. About 50% black magnetic, with gray-green fine	296	858-98	40	

N.M.P., TORONTO--STOCK FORM NO. 501 REV. 12/51

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DIAMOND DRILL RECORD

PROPERTY AYLMER-RUFFNER - Montpelier Twp. JMW HOLE NO. A - 11

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED April 7, 1957
 LATITUDE 200 North DATUM _____ COMPLETED April 14, 1957
 DEPARTURE 11600 East (or F.L.30) BEARING South ULTIMATE DEPTH 927
 ELEVATION _____ DIP Call. - 45° 200 - 42° 600 - 32° PROPOSED DEPTH _____
450 - 38° 800 - 28°

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	% IRON: WIDTH	% IRON: % Fe
0 - 24	CASING				
24 - 62	TUFF - fine to coarse with feldspar meta-crysts. Fe' at traces of bedding at 45° to core.				
62 - 180	TUFF - as above with scattered magnetite bands, increasing down hole. 92 - 180 - 10% to 20% magnetite bands up to 1" wide. Strongly magnetic 129-32, 134-36, 138-39, 148-49, 152-53, 158-59, 168-69. Lost core 167-68.				
180 - 274	MAGNETITIC ARGILLITE - Black, strongly magnetic. About 20% barren gray bands up to 1/2" wide decreasing down hole. Banding at 45°. 213-16 white quartz and green tuff. Lost core 213-14.	297	180-230	50	
274 - 289	ANDESITE PORPHYRY - Green, medium grain fine white feldspar meta-crysts	299	274-312	38	
289 - 357	MAGNETITIC ARGILLITE - Tuff. Black to dark rusty red, magnetism medium. A few barren bands generally less than 1/4" wide. Banding at 50°. Frequent green tuff beds usually with feldspar meta-crysts. Tuff 312-13, 317-20, 329-33, 339-42, 356-57.	300	312-357	45	
357 - 392	MAGNETITIC ARGILLITE - Black to rusty red, medium magnetism. 10% to 15% barren gray bands up to 1/2" wide. Banding at 50°	301	357-392	35	

DRILLED BY _____

SIGNED _____

DIAMOND DRILL RECORD

PROPERTY ATLID-BUFFNER - Montgolfier Twp. Iron HOLE NO. A - 11

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	RECORDED WIDTH	SLUDGE SAMPLES
392 - 424	MAGNETITIC ARGILLITE - Tuff. Black to Rusty red, magnetism medium, interbedded with coarse green tuff often with feldspar microcrysts. Tuff 392-95, 405-10, 416-24	302	392-424	32	5 FE
424 - 476	MAGNETITIC ARGILLITE - Black to rusty red with fine gray siliceous bands usually less than 1/4" wide at 60° to core. Magnetism medium to weak. Reddish streak, probably part hematite.	303	424-476	52	
476 - 494	TUFF - Magnetitic argillite - Coarse green tuff with sparse black magnetic bands. 481-492 about 60% magnetic.	304	476-494	18	
494 - 536	MAGNETITIC ARGILLITE - Generally black strong to medium magnetic, with fine 1/8" siliceous banding at 50° to 60° to core. Lost core 531-32	305	494-536	42	
536 - 672	TUFF - Green, fine to coarse grain, barren. Lost core 544-45. 610-642 widely scattered magnetite bands up to 1/2" wide. 642-672 about 10% magnetite bands.				
672 - 718	MAGNETITIC ARGILLITE - Tuff. About 40% black strongly magnetic with barren green tuff in beds 1' to 3" wide. 711-18 sheared and broken core, fine calcite stringers. Lost core 717-18.	306	672-718	46	

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER, Montgolfier Property HOLE NO. A-12

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED April 10, 1957
 LATITUDE 1550 North DATUM _____ COMPLETED April 15, 1957
 DEPARTURE 8800 East (P.L.23) BEARING South ULTIMATE DEPTH 639'
 ELEVATION _____ DIP Collar -45°, 200 -40°, 600 -35° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD S Width	SLUDGE GOLD S
0 - 154	CASING				
154 - 232	MAGNETITIC ARGILLITE - Dark purple to black, strong to medium magnetism, banding at 45°. Scattered barren bands. 158-164 mostly white quartz. Tuff 173-75.	310	154-90	36	
		311	190-32	42	
232 - 346	MAGNETITIC ARGILLITE - Thin bedded, black, strong to medium magnetic with gray non-magnetic. 10 to 20% non-magnetic in bands up to 1" wide. Tuff 279-81.5, 325-26.	312	232-90	58	
		313	290-46	56	
346 - 389	MAGNETITIC ARGILLITE - Argillite, black strong to medium magnetic with gray weak to non-magnetic. Very weak magnetism 346-49, 350-54, 357-58, 381-82, 384-85, Tuff - 369-70, 374-76, 386-87.	314	346-89	43	
389 - 429	TUFF - Green, medium grain, numerous quartz stringers. Magnetic bands - 388-402-04, 406-09, 410-12.	315	389-29	49	
429 - 475	MAGNETITIC ARGILLITE - Black, thin banding at 45°. Strong to medium magnetic, scattered fine quartz stringers. 490-86 - Sheared and broken core. 486-88 White Quartz.	316	429-75	46	

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUPFNER - Montgolfier Property

HOLE NO. A-13

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED April 18, 1957

LATITUDE 2100 North

DATUM _____

COMPLETED April 25, 1957

DEPARTURE 1200 West (P.L. West)

BEARING South

ULTIMATE DEPTH 1071

ELEVATION _____

DIP Coll: -45° 200 -43° 800 -35°
400 -38°, 1000 -32°
800 -35°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0 - 172	CASING.				
172 - 244	MAGNETITIC ARGILLITE - Black, thin banding at 45° to 50°. Strong to medium magnetism	319	172-24	52	
	180 - 210 Sheared and broken. Barren: 172-82,				
	185-88, 220-24, Lost Core: 186-87, 189-200,	320	224-44	20	
	209-10, 229-31, 234-35				
244 - 294	MAGNETITIC ARGILLITE - Uniform black, thin bedding, strong to medium magnetic, a few widely scattered jasper bands.	321	244-04	50	
294 - 364	MAGNETITIC ARGILLITE - Black, strongly magnetic with scattered gray barren bands. Barren: 294-95	322	294-31	37	
	307-98, 302-03, 312-15, 320-22, 323-31, 341-43				
	344-47, 351-53, 356-57, Lost Core: 363-07, 379-10				
	322-23, 343-45.				
364 - 402	TUFF - Dark green medium to coarse. Angular dark green blotches (fragments?) oriented at 60° to core. 366-66.5 Black magnetite.	324	364-02	26	
402 - 486	MAGNETITIC ARGILLITE - Black, fine banding at 60°. Strong to weak magnetism 421-464 Core shattered and broken. Lost Core: 436-35, 449-51, 462-63, 471-72. Barren argillite 469-71	325	402-60	58	

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUPPNER- Montgolfier Property

HOLE NO. A-13

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
486 - 614	MAGNETITIC ARGILLITE - Black, thin banding at 45° to 50° about 10% barren gray argillite in scattered bands up to 1/2" wide. Also scattered green tuff beds. Magnetism strong to weak. Barren Tuff: 486-94, 509-11, 515-17, 561-62, 583-84, 592-94, 597-02, 612-14. Red Jasper: 557-58	326	460-20	60			
	Lost Core: 490-91, 505-06, 537-39, 542-43, 563-65, 574-76, 595-97.	327	520-60	40			
614 - 760	MAGNETITIC ARGILLITE - Tuff. Black, strong to medium magnetic with frequent dark green coarse tuff beds. Tuff: 630-31, 645-47, 662-63, 664-66, 673-79, 702-20, 722-23, 724-25, 727-29, 746-51, 753-60. Lost Core: 625-27, 634-36, 640-42, 655-56, 744-45	329	614-70	68			
		330	670-30	60			
		331	730-89	59			
760 - 789	MAGNETITIC ARGILLITE - Black to rusty red. Slate cleavage at 60°. Strong to medium magnetic. Core broken in circular cleavage fragments, much lost core. Lost Core: 776-77, 782-84, 785-86.						
789 - 922	MAGNETITIC ARGILLITE - Black, strong to medium magnetic, scattered coarse green tuff beds. Tuff: 789-92, 825-29, 858-60, 873-83, 886-88.	332	789-50	61			
		333	850-10	60			

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Twp. Prop. HOLE NO. A-13

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %
789-922 (a.)	Lost Core: 800-01, 817-21, 837-38, 843-45, 867-69, 913-15, 920-21. 886-894 - 50% barren argillite.				
922 - 998	MAGNETITIC ARGILLITE - TUFF. Black, strong to medium magnetism with 30% to 50% coarse green tuff. Tuff: 922-25, 933-39, 955-66, 975-76	334	910-55	45	
	983-84, 985-87, 989.5-90.5. Lost Core: 932-33, 935-36, 948-50, 981, 82; 950-55 - blebs and crystals of pyrite - 2-3%.	335	955-92	37	
992 - 1071	TUFF - Fine to coarse green tuff with about 10% black strongly magnetic bands up to 6" wide decreasing down hole. Lost Core: 1034-39, 1045-46, 1057-58.				
1071	END OF HOLE.				

DRILLED BY

SIGNED R. K. Medford

DIAMOND DRILL RECORD

PROPERTY ATLID-RUFNER - Montgolfier Top, Iron HOLE NO. A - 14

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED April 17, 1957
 LATITUDE 200 South DATUM _____ COMPLETED April 25, 1957
 DEPARTURE 9600 East (P.L.25) BEARING South ULTIMATE DEPTH 775
 ELEVATION _____ DIP Coll. - 45° 200 - 42° 600 - 35° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	CORRECTION WIDTH	CORRECTION DEPTH
0 - 92	CASING				
92 - 140	MAGNETITIC ARGILLITE - Black to dark purplish red, thin banding at 45°, weak to medium magnetism. Scattered 1/2" gray bands, increasing down hole. Green tuff 108-10, 130-31.	336	92-140	48	
140 - 155	TUFF - Magnetitic Argillite - Mostly green tuff. Magnetic 143-44, 147-48, 149-53, 154-55.				
155 - 342	TUFF - Green, medium grain, faint traces of bedding, scattered quartz stringers, widely scattered magnetite bands generally less than 1" wide. Magnetic 248-49, 251-52, 256-57, 261-62, 269-70, 275-76, 277-78, 286-87, 290-91, 293-97, 323-24, 331-33. Lost core 249-51, 254-56, 258-60.				
342 - 380	TUFF - Magnetitic Argillite - Green, fine to medium tuff. About 30% black strongly magnetic in bands up to 2' wide.				
380 - 442	TUFF - Green, medium to coarse grain, bedding at 45°. Totally barren.				
442 - 583	TUFF - Generally green as above, widely scattered magnetic bands increasing down hole.				
475 - 492	10% magnetic bands up to 1" wide.				

DRILLED BY _____ SIGNED _____

DIAMOND DRILL RECORD

PROPERTY ATLIE-SUFFNER - Montgolfier Dep. Iron HOLE NO. A - 14

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	MINIMUM Width	PERCENT % Fe			
	492 - 505 20% to 25% magnetic bands							
	505 - 535 About 10% magnetic bands							
	535 - 561 30% magnetic in bands up to 2" wide.							
	561 - 583 Green tuff, very sparse magnetite.							
583 - 607	MAGNETITIC ARGILLITE - Black, banding at 60°, strongly magnetic. Scattered green tuff. Tuff 594-95, 598-602, 603-04, 605-07. Badly shattered core 590 - 607.	337	582-642	60				
607 - 762	MAGNETITIC ARGILLITE - Black to dark rusty red. Medium magnetism. Slatey cleavage at 60°. 5% to 10% barren argillite bands up to 1/2" wide. Coarse green tuff 714-19, 745-45.5, 760-61.	338	642-702	60				
762 - 775	TUFF - Magnetitic Argillite - Coarse green tuff with scattered magnetic bands. Magnetic 756-57, 758-59, 772-74. Lost core 774-75.	339	702-762	60				
775	END OF HOLE.							

DIAMOND DRILL RECORD

PROPERTY ATI DI WIPPER - Montgolfier Twp. Iron HOLE NO. 4 - 15

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED April 1957
 LATITUDE 1600 North DATUM _____ COMPLETED April 1957
 DEPARTURE 2100 West (P.L. 6 West) BEARING South ULTIMATE DEPTH 764
 ELEVATION _____ DIP Collar - 45° 200 - 44° 400 - 35° 600 - 29° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD % Fe Width	SLUDGE Fe % Fe		
0 - 167	CASING						
167 - 205	MAGNETIC ARGILLITE - Black strongly magnetic, fine banding at 50°. 167-200 Broken core nearly weathered fracture. Barren tuff 193-94. Lost core 198-99.	340	167-205	38			
205 - 251	MAGNETIC ARGILLITE - Tuff - Black strongly magnetic with bands of coarse green tuff. Tuff 205-10, 216-17, 219-27, 232-33, 235-38, 240-41, 245-46, 247-48, 249-51. 228 - 29 Fine black magnetite sand.	341	205-251	46			
251 - 325	MAGNETIC ARGILLITE - Black strong to medium magnetic. About 5 - 10% gray barren argillite in bands up to 1" wide. Green tuff 301-04, 313-14. Lost core 289-90.	342	251-325	74			
325 - 403	MAGNETIC ARGILLITE - generally as above but increasing gray barren bands. 10 to 20% non-magnetic. Magnetism strong to weak. Green tuff 400-03.	343	325-375	50			
403 - 426	MAGNETIC ARGILLITE - Black to rusty red, medium to strong magnetic. Barren 421-25	344	375-425	50			
426 - 471	MAGNETIC ARGILLITE - Tuff. Black, strongly magnetic interbedded with dark gneissic, micaceous rock, probably a much altered tuff. Tuff 426-28, 429-31, 440-45, 450-51, 455-56, 460-63, 467-71.	345	425-471	46			

DIAMOND DRILL RECORD

PROPERTY ATLIS HUFFNER - Montgolfier Swp. Iron HOLE NO. A 2-15

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD: width	SLUDGE: % Fe
471 - 511	MAGNETITIC ARGILLITE - Dense black, strong to medium magnetic. A few widely scattered jasper bands up to 1/4" wide.	346	471-511	40	
511 - 571	MAGNETITIC ARGILLITE - Tuff - Dense black strongly magnetic with green tuff. Sparse jasper. Tuff 511-13, 516-18, 520-23, 527-28, 541-42, 558-61, 569-70.	347	511-571	60	
571 - 679	MAGNETITIC ARGILLITE - Tuff - Argillite, Black to rusty red strong to medium magnetic with gray barren bands up to 1" wide. Slaty cleavage at 60°. Scattered green tuff. About 20 - 30% non-magnetic. Tuff 583-84, 591-94, 600-04, 614-22, 630-32, 642-44, 648-49.	348	571-630	59	
		349	630-679	49	
679 - 700	TUFF - Magnetitic Argillite - Green tuff and black strongly magnetic about 50% of each in bands 6" to 2" wide.	350	679-709	30	
700 - 764	TUFF - Green tuff with scattered magnetite bands decreasing down hole. Magnetic 705-09, 713-16, 719-20.				
764	END OF HOLE.				

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUPFNER - Montgolfier Iron Property HOLE NO. A - 16

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED May 14, 1957
 LATITUDE 1700 North DATUM _____ COMPLETED _____
 DEPARTURE P.L. #1 Area #3 BEARING South ULTIMATE DEPTH _____
 ELEVATION _____ DIP Coll. - 45° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLZ NO.	WIDTH OF SAMPLE	Feels	SLUDGE GOLD %
0 - 30	CASING - Yellow Clay				
30 - 35	ANDESITE - Dark green, coarse grain.				
35 - 401	MAGNETIC ARGILLITE - Black fine grain, slaty banding at 50° - 60° to core. Magnetism generally medium. Frequent gray non-magnetic bands usually less than 1/2" wide.				
	Barren andesite or tuff - 45-47, 82-88, 131-135, 144-146, 151-53, 186-37, 280-82, 300-03, 346-47, 355-58, 381-84.				
	Lost core 69-70, 74-75, 126-27, 148-49, 171-73, 174-75, 176-78, 179-80, 184-85, 324-25, 360-62, 363-64, 368-69, 376-77, 380-81, 388-90, 396-97.				
	90 - 93 bedding at 30° to core.				
	200 - Banding generally 65° to 70° to core.				
	Sample representing 35 - 100 40-41, 50-51, 60-61, 70-71, 80-81, 90-91.	351		29.0	
	Sample representing 100-200 100-01, 110-11, 120-21, 130-31, 140-41, 150-51, 160-61, 170-71, 180-81, 190-91.	352		26.2	
	Sample representing 200 - 300 200-01, 210-11, 220-21, 230-31, 240-41, 250-51, 260-61, 270-71, 280-81, 290-91.	353		23.7	

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 16

SHEET NUMBER 2 (continued) SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED May 22, 1957
 DEPARTURE _____ BEARING Coll. -45° 200 -38° 600 -32° ULTIMATE DEPTH 713'
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	<u>Fe</u> <u>Gold</u>	SLUDGE GOLD %
401 - 408	GRAYWACKE - light gray, siliceous, fine shreds of dark mineral elongated at 60° to core. Probably recrystallized sedimentary bed.				
408 - 644	MAGNETIC ARGILLITE - Argillite - interbedded black medium magnetic bands usually less than 1/2" wide at 70° - 80° to core. Total non-magnetics 20 to 40% Lost core 411-12, 435-38, 441-42, 618-20. Harren Tuff 492-95, 496-97, 529-31, 555-56, 557-60, 622-24, 631-32.5, 634-38. 620 - 22 Scattered pyrite crystals. 62 1/2 2" black graphite and pyrite crystals. Sample representing 408 - 492	355	21.3		
	410-11, 420-21, 430-31, 440-41, 450-51, 460-61, 470-71, 480-81, 490-91. Sample representing 492 - 644	356	18.9		
	500-01, 510-11, 520-21, 530-31, 540-41, 550-51, 560-61, 570-71, 580-81, 590-91, 600-01, 610-11, 620-21, 630-31, 640-41.				
644 - 713	GRAYWACKE - generally dark gray, siliceous, granular. Scattered magnetic bands at 100° to core. 659-72 very weak magnetism.				

In claim 4 - 113444

DIAMOND DRILL RECORD

PROPERTY ATLIS-SUPPNER - Montgolfier Iron Property HOLE NO. A - 17

SHEET NUMBER 1 SECTION FROM 150 TO _____ STARTED May 20, 1957
 LATITUDE 2000 North DATUM _____ COMPLETED May 28, 1957
 DEPARTURE P. L. 7 Area #3 BEARING South ULTIMATE DEPTH 553'
 ELEVATION _____ DIP Collar -45° 200 -42° 550 -37° PROPOSED DEPTH _____

95587

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0 - 64	CASING - 0 - 50 Clay 50 - 64 Sand and boulders				
64 - 90	MAGNETITIC ARGILLITE - Black, fine grain, banding at 50°. Magnetite nodules. Reddish hematite streak. 64 - 80 badly broken, weathered fracture.				
90 - 103	GRAYWACKE - Dull gray, finely granular, rather siliceous				
103 - 220	MAGNETITIC ARGILLITE - generally as above, banding about 60°. Sparse fine gray bands, decreasing down hole. Slaty parting. Barren tuff 132-33, 183-85, 215-16.				
220 - 266	MAGNETITIC ARGILLITE - Argillite, black, strong to medium magnetic with increasing barren bands. 10% to 20% barren. Banding 75° to 90°. No evidence of hematite. Barren tuff 220-21, 231-25. 251 - 52 Contorted irregular banding.				
266 - 360	MAGNETITIC ARGILLITE - Argillite, black medium magnetic with wide bands of gray weak to non-magnetic. Banding generally 75° to 85° to core. Near barren 266-73, 291-92, 294-95, 294-300, 311-13, 318-19, 320-27, 331-36, 338-39, 343-44, 354-55, 358-59. 340 - 60 Broken core, saving, hole counted.				

QUEBEC DEPARTMENT OF MINES
 OCT 25 1957
 MINERAL DEPOSITS BRANCH
 No G M- 5684

DRILLED BY _____ SIGNED _____

MINISTRY OF MINES - REC
 AUG 16 1957

DIAMOND DRILL RECORD

PROPERTY ATLIN-SUFFER - Montgolfier Iron Property

HOLE NO. A - 18

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED June 3, 1957

LATITUDE 2700 North

DATUM _____

COMPLETED June 10, 1957

DEPARTURE P.L. 13 Area #3

BEARING South

ULTIMATE DEPTH 929'

ELEVATION _____

DIP Coll. -45° 200 -43° 600 -40°
400 -41° 800 -37°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g			
0 - 41	CASING							
41 - 75	MAGNETIC ARGILLITE - Argillite, black medium magnetic with about 25% gray, weak to non-magnetic. Banding at 60°. Core very badly broken, weathered fractures, about 30% of core lost.							
75 - 181	MAGNETIC ARGILLITE - Argillite, interbedded black strong to medium magnetic with 25% to 30% gray non-magnetic. Banding 55° to 60°. Usually reddish hematite streak. Barren 80-81.5, 91-92, 94-96, 100-02, 105-06, 107-08, and so on, others too numerous to mention. 164-71 Banding varies from 85° to 30°. Lost core 89-91, 95.5-97, 177-78.							
181 - 190	GRAYWACKE - Gray green, granular, black hornblend crystals. Contacts parallel to bedding.							
190 - 285	MAGNETIC ARGILLITE - Argillite, black very fine grain, strong to medium magnetic, interbedded with gray weak to non-magnetic, about 50% of each. Banding at 65° to core. Rusty streak 271-75 rusty red contorted banding strongly magnetic. Magnetite increasing slightly down hole. Lost core 207-08, 257-59.							

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SIGNED By K. Muel

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 18

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
285 - 341	MAGNETITIC ARGILLITE - Argillite, Interbedded strong to medium magnetic with 20 to 30% gray weak to non-magnetic. Banding 65° to 70°. No evidence of hematite. 293 - 94 white quartz stringers, strongly magnetic in contacts. Lost core 339-41.				
341 - 545	MAGNETITIC ARGILLITE - Argillite - Generally as above but non-magnetics increasing to 40% to 50%. Lost Core 389-92, 453-55, 485-86, 502-04, 507-08, 521-23, 541-42. 450-542 Core shattered at least 20% lost.				
545 - 597	MAGNETITIC ARGILLITE - Black, very fine grain, no evidence of hematite. About 10% barren gray bands at 65°, usually less than 1/4" wide. Barren 560-62, Lost core 558-59.				
597 - 629	MAGNETITIC ARGILLITE - Argillite - Interbedded black, medium to strong magnetic and 20% to 30% gray non-magnetic in bands at 70° from 1/4" to several feet wide. Lost core 597-98.5, 615-17. Barren 605-08, 620-21.				
629 - 653	MAGNETITIC ARGILLITE - Tuff - Black, fine grain, strong to medium magnetic with coarse green beds usually showing fine banding. Banding at 70° to core.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 19

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED May 23, 1957
 LATITUDE 1645 North DATUM _____ COMPLETED _____
 DEPARTURE P.L. #1 Area #3 BEARING South ULTIMATE DEPTH _____
 ELEVATION 5 feet above A - 16 DIP Coll. -45° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 40	CASING				
40 - 46	MAGNETITIC ARGILLITE - Black, fine grain, broken and weathered. Banding about 45°.				
46 - 51	ANDESITE - Gray green, medium granular.				
51 - 179	MAGNETITIC ARGILLITE - Black, slaty, fine grain. Medium magnetism. Red hematite streak. Banding variable about 45° at 51 feet, flattening to 30° at 90 feet, becoming 40° at 130 feet. 86 - 87, 110-117 Banding near parallel to core. Barren tuff or Argillite 60-61, 76-77, 97-98, 173-74.5, 176-79. 167-171 Dark green granular, fine frained contact at 80°. Probably a basic dyke.	357	Representing 40 - 179 -	26.1%	
			40-41, 60-61, 70-71, 80-81, 90-91, 160-61, 110-11, 120-21, 130-31, 140-41, 150-51, 160-61, 170-71.		
179 - 241	MAGNETITIC ARGILLITE - Dark purple black, often with rusty tint. Very fine grain, thin banding at 40-45°. Magnetism generally medium. Scattered barren bands. Barren tuff 182-83, 196-97, 209-13, 227-29.				
241 - 273	MAGNETITIC ARGILLITE - Tuff - Magnetic bands as above with numerous coarse, gray-green bands, probably tuff. Banding generally 35° but locally somewhat variable from 30° to 80°. Barren tuff 241-43, 244-45, 259-62, 266-68.	358	Representing 179 - 273 -	23.8%	
			180-81, 190-91, 200-01, 210-11, 220-21, 230-31, 240-41, 250-51, 260-61, 270-71.		

DIAMOND DRILL RECORD

PROPERTY ATLIN-BUEFFNER - Montgolfier Iron Property HOLE NO. A - 19

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED May 31, 1957
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD %
325 - 375	MAGNETTIC ARGILLITE - Tuff - Black strongly magnetic with gray to green non-magnetic bands. Banding generally about 40° to core. Barren 325-26, 330-31, 341-43, 349-50, 355-56, 362-63, 365-66, 373-74. Lost core 367-71.	359	Representing 273 - 375 - 280-81, 290-91, 300-01, 310-11, 320-21, 330-31, 340-41, 350-51, 360-61, 370-71.		27.8 %
375 - 400	MAGNETTIC ARGILLITE - Argillite - Tuff, as above with increasing narrow gray non-magnetic bands usually less than 1/2" wide. 20% to 30% non-magnetic. Barren tuff or Argillite 377-78, 391-94. Lost core 394-96, 398-400.	360	Representing ³⁷⁵ 325 - 480 - 380-81, 390-91, 400-01, 411-12, 420-21, 430-31, 440-41, 450-51, 460-61, 470-71.		23.0 %
400 - 438	TUFF - Magnetitic Argillite - Mainly green to gray tuff with about 40% black magnetic in bands up to 2' wide. Banding variable 45° - 30° to core. 400 - 415 very weakly magnetic. Lost core 409-10, 417-18.				
438 - 480	MAGNETTIC ARGILLITE - Tuff - Black strongly magnetic with numerous green and gray tuff or argillite beds. Barren tuff 446-49, 456-59, 461-69.				
480 - 526	TUFF - Green, fine to coarse, often resembles diorite but usually indications of bedding. Frequent black magnetic bands. Scattered white quartz stringers. Magnetic 482-86, 488-89, 504-06, 515-17, 524-25.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-BUFFNER - Montgolfier Iron Property HOLE NO. A - 20

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED June 1, 1957
 LATITUDE 1900 North DATUM _____ COMPLETED June 15, 1957
 DEPARTURE P. L. 7 Area 3 BEARING North ULTIMATE DEPTH 784
 ELEVATION 4' above A - 17 DIP Coll -45° 200 -37° 780 -30°
 400 -34° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 50	CASING				
50 - 60	MAGNETITIC ARGILLITE - Black, thin banding at 40°. Medium magnetism. Broken rusty weathered fractures.				
60 - 66	GRAYWACKE - Massive, gray, granular.				
66 - 370	MAGNETITIC ARGILLITE - Black thin banding at 35° to 40°, medium magnetic. Scattered gray bands up to 1/2" wide. Rusty red hematite streak. 150 - 195 Banding at 45°. Dark green barren 195-96, 247-49, 318-19. 195 - 250 Banding variable 45° to 25°. 250 - 370 Banding at 35° to 40°. 350 - 370 Streak dark brown and black by 370°.				
370 - 510	MAGNETITIC ARGILLITE - Black, strong to medium magnetic, banding at 40°. Occasional red streak but usually black. Scattered gray green barren argillite bands. Barren 376-77, 397-99, 415-16, 421-22, 424-25, 431-32, 439-40, 451-55, 463-65, 482-83, 495-96, 501-03. 475 - 516 Banding at 45°. 498 - 501 About 50% white quartz carbonate breccia with red alteration.				
510 - 516	GRAYWACKE - Gray green, granular, shattered, highly altered appearance.				

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUPNER - Montgolfier Iron Property HOLE NO. A - 20

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
516 - 605	MAGNETITIC ARGILLITE - Generally as above. No evidence of hematite, banding about 45°, scattered barren bands. Barren 516-19, 520-21, 522-24, 528-29, 532-35, 542-43, 571-74, 583-87, 594-95.				
605 - 784	MAGNETITIC ARGILLITE - Black, strong to medium magnetic with increasing gray barren bands. 10% to 20% barren. Banding at 40° to 30°. Occasional red hematite streak over widths less than 1'. Barren 605-07, 610-11, 620-21, 623-24, 642-44, 652-53, 672-74, 698-99, 711-12, 730-32, 771-76. 676 - 700 Banding at 30° to core. 700 - 750 Banding becoming 35° to 40°. 714 6" white quartz. 750 - 784 Banding becoming 40° to 45°.				
784	END OF HOLE.				

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SIGNED _____

Roy K. Medford

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER, MONTGOLFIER TWP.

HOLE NO. A-21

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED June 3, 1957

LATITUDE 1400 North of Base Line

DATUM _____

COMPLETED June 7, 1957

DEPARTURE P.L.#1, Area #2 3

BEARING South

ULTIMATE DEPTH 440'

ELEVATION 18' above A-16 (approx)

DIP Collar -45°; 200 -45°; 400 -42°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 16	CASING, In overburden				
16 - 68	MAGNETITIC ARGILLITE - ARGILLITE. Strong to medium magnetic with green-gray barren. Banding at 55°. Barren: 23-25, 27-29, 34-36, 38-43, 49-54, 58-60, 65-66. No indication of hematite.				
68 - 71	FELDSPAR PORPHYRY DYKE - gray, fine phenocrysts, contacts parallel to bedding.				
71 - 146	MAGNETITIC ARGILLITE - ARGILLITE. Generally as above. Banding 60° to 76° to core. Barren bands frequently granular without bedding. possibly volcanics. Barren: 71-72, 77-78, 85-89, 90-93, 109-10, 111-12, 114-15, 126-29, 134-37, 144-46. 117-20 weak magnetism. Note: two boxes marked 150'-175', none marked 75-100. Believed to be sorted out correctly.				
146-231	MAGNETITIC ARGILLITE - Strong to medium magnetic interbedded with weak to non-magnetic gray bands usually not over 1/2" wide. Non-magnetics 20%. Banding about 60° to core. Slightly coarser grain, no indication of				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER, Montgolfier Twp.

HOLE NO. A-21

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
146-231 (c.)	hematite, 207-08 Quartz, strongly magnetic to contacts.				
231 - 254	MAGNETITIC ARGILLITE - ARGILLITE. About 50% of each. Bedding variable, 60° to near parallel.				
254 - 313	MAGNETITIC ARGILLITE - Black, coarser grain, no indication of hematite. Interbedded with 20 to 25% gray argillite in thin bands. Banding about 60°, somewhat variable at first.				
313- 322	ANDESITE ? - Green chloritic, a few white phenocrysts. Irregular contacts 319-20 - white quartz.				
322 - 335	MAGNETITIC ARGILLITE - as above.				
335 - 440	GRAYWACKE - Greenish at contact becoming gray by 352. Numerous magnetite bands but decreasing down hole. Banding about 66° to core. Pyrite 3% to 5% as grains and cubes in irregular bands. 337-38 Pyrite 50% in coarse cubes. Magnetite - 336-37, 341-43. Sparse magnetite bands 345-56, 369-72, 389-93. White Quartz: 364-65, 377-80, 385-87.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFENER - Montgolfier Iron Property HOLE NO. A - 22

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED June 7, 1957
 LATITUDE 1950 North of Base Line DATUM _____ COMPLETED June 10, 1957
 DEPARTURE Picket Line 1 Area 3 BEARING North ULTIMATE DEPTH 437'
 ELEVATION _____ DIP Coll. -45°, 200 -45°, 400 -43° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 47	CASING				
47 - 124	MAGNETIC ARGILLITE - Black, fine grain, strong to medium magnetic, no indication of hematite. Frequent fine barren bands up to 1/4" wide. Banding at 30° to axis of core. Barren 50-56, 98-100. 85 - 124 Shattered into 30° slaty fragments. Lost core 105-06, 109-10, 113-15, 116-19, 121-22.				
124 - 138	MAGNETIC ARGILLITE - Tuff? - Black, strong to medium magnetic, interbedded with dark green granular rock, probably recrystallized volcanics. Tuff 124-28, 135-38.				
138 - 227	MAGNETIC ARGILLITE - Argillite - Interbedded black strongly magnetic with gray non-magnetic as thin bands at 30°. Also numerous massive grayish green graywacke bands up to 3 or 4 feet wide. Total non-magnetics about 30%. Barren graywacke 159-61, 162-63, 166-71, 174-75, 197-202, 203-04, 212-15. Lost core 154-55, 160-61.				
227 - 375	MAGNETIC ARGILLITE - Tuff - Thin bands, black strongly magnetic and gray non-magnetic as above with frequent green coarse bands often with no evidence of bedding. Banding somewhat variable but usually around 30°.				

DIAMOND DRILL RECORD

415' - 3 - 101017
382' - 5 - 101016

PROPERTY ATLIN-RUFFNER - Montgolfier Twp. Property HOLE NO. A-23

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED June 21, 1957
 LATITUDE 1600 North DATUM _____ COMPLETED July 4, 1957
 DEPARTURE P.L.#13 West Ext. Area 2 BEARING South ULTIMATE DEPTH 797'
 ELEVATION _____ Collar -45°; 400 -39°;
 DIP 200 -44°; 600 -37°; 797 -32°. PROPOSED DEPTH 800'

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 13	CASING				
13 - 152	GRAYWACKE - Gray to pale green, finely granular scattered black weakly magnetic bands. Banding at 50° to 60° to core. Magnetic: 80-83, 67-77 103-05, 106-10, 113-15, 128-29, 133-34, 139-41 244-48, . Lost Core: 124-25.				
152 - 189	MAGNETITIC ARGILLITE - Black, strong to medium magnetic with 10% to 20% fine gray bands also scattered barren graywacke bands. Banding at 60°. No indications of hematite. Graywacke: 162-63, 168-70, 171-72, 184-85.				
189 - 307	MAGNETITIC ARGILLITE - Black strong to medium magnetic with about 10% fine gray bands at 60° to 65°. Frequent reddish streak. Barren: 235-36, 238-40, 242-43, 249-50, 264-65, 270-72, 276-77, 302-04. 250-58 Broken core rusty fractures, About 50% of core lost.				
307 - 327	MAGNETITIC ARGILLITE - Dense black, generally strongly magnetic. Less than 5% barren, banding at 60°. Frequent reddish streak.				

QUEBEC DEPARTMENT OF MINES
NOV 6 - 1957
MINERAL DEPOSITS BRANCH
No. G.M. - 5684

MINES
NOV 1957
103-R

DRILLED BY _____

SIGNED _____

Roy H. Medford

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Property HOLE NO. A-23

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
327 - 497	MAGNETITIC ARGILLITE - Black, strong to medium magnetic with about 10% fine barren bands at 65°. Also scattered graywacke and greenstone bands often several feet wide. Occasional reddish streak; Barren: 327-32, 339-40, 344-46, 351-52, 364-66, 369-70, 372-74, 376-78, 383-85, 391-93, 396-98, 402-6, 408-09, 411-12, 431-40, 442-44, 448-49, 459-60, 463-66. 479-97 about 50% barren, becoming slaty.				
497 - 797	SLATY MAGNETITIC ARGILLITE - Black to dark rusty brown, usually reddish streak, Slaty bedding at 65°. Magnetism strong to medium. About 10% to 15% barren gray bands. Barren Greenstone: 550-52, 600-03, 613-15, 627-28, 633-34, 635-36, 638-39, 643-46, 709-10, 723-24, 725-27, 730-33, 794-95. Graywacke: 650-51, 655-56. Lost Core: 560-62, 578-80, 582-85, 610-11, 733-34, 735-36. Banding somewhat variable around 700 bus usually 60 to 70° becoming generally 60° by end of hole.				
797	END OF HOLE.				

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SIGNED *W. K. Medford*

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property

HOLE NO. A - 24

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED June 13, 1957

LATITUDE 3300 North

DATUM _____

COMPLETED June 20, 1957

DEPARTURE P. L. 13 Area 3

BEARING South

ULTIMATE DEPTH 879'

ELEVATION _____

DIP Coll. -45° 200 -45° 600 -42°
 400 -45° 800 -40°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 80	CASING				
80 - 156	MAGNETITIC ARGILLITE - Black, strong to medium magnetic with fine gray barren bands usually less than 1/4" wide. Total non-magnetic 10% to 20%. Banding at 55° to 60°. No indication of hematite. 126 - 135 Core badly broken, about 30% lost.				
156 - 248	MAGNETITIC ARGILLITE - Argillite, generally as above but non-magnetic increasing to 20% to 30% as bands from less than 1/4" up to 1" wide.				
248 - 413	MAGNETITIC ARGILLITE - Black, fine grain, strong to medium magnetic. No indication of hematite. Banding around 60°. About 10% to 20% fine gray barren bands. Barren graywacke 275-77, 315-17, 323-27, 329-30, 362-64, 374-76, 383-85, 386-88, 377-79 Chite quartz. 375 - 413 Magnetic bands, strongly magnetic at 60° to 70° to core.				
413 - 425	ARGILLITE - gray-green, fine grain, barren. 424 - 6" magnetite band at 30°.				
425 - 485	MAGNETITIC ARGILLITE - Black, fine grain. Occasional red streak, strong to medium magnetic. 10% to 20% barren. Banding about 60°. Frequently broken with				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 24

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	lost core. Lost core 425-26, 430-31, 442-43.				
485 - 650	Barren 428-30, 449-50. 460-68 very sparse magnetite. MAGNETITIC ARGILLITE - Becoming strongly magnetic with scattered bands of coarse greenstone and weak magnetian. Banding at 55° to 60°. Occasional reddish streak. Greenstone 515-19 with white quartz. Graywacke or greenstone 579-81, 589-92, 595-97, 626-28, 632-33, 639-41. Weak magnetism 521-25, 529-31, 533-35, 571-72, 616-19. 601-623 crumbled and broken core. Lost core 602-03, 613-14, 621-22. 641-650 very strongly magnetic, banding contorted.				
650 - 659	GREENSTONE - dark green, coarse, vague banding, possibly tuff.				
659 - 725	MAGNETITIC ARGILLITE - Graywacke - Black, usually strongly magnetic with numerous gray granular bands. Banding 60° to 70°. Streak brown to black. 660-62 Banding near parallel to core. Barren graywacke 662-65, 670-71, 675-77, 683-85, 690-91, 695-99, 709-19.				
725 - 806	MAGNETITIC ARGILLITE - Argillite - Interbedded black strong to weak magnetic with gray non-magnetic from fine hands up to several feet wide. Non-magnetic				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 25

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED June 17, 1957
 LATITUDE 2300 North DATUM _____ COMPLETED June 23, 1957
 DEPARTURE P. L. #7, Area 3 BEARING North ULTIMATE DEPTH 408'
 ELEVATION _____ DIP Coll. -45°, 200 -45°, 400 -40° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 41	CASING				
41 - 145	MAGNETITIC ARGILLITE - Argillite, black, strongly magnetic, interbedded with about 30% gray thin banded non-magnetics at 35° to 25°. No evidence of hematite. Barren graywacke 62-65, 76-80, 82-84, 93-94, 96-106, 117-20, 129-30, 142-44, 105-118 Core badly shattered, hole cemented. 126-127 Banding near parallel to core.				
145 - 254	MAGNETITIC ARGILLITE - Black, strong to medium magnetic with 10% to 20% fine gray bands somewhat variable, but usually about 35° to core. Streak dark reddish brown becoming hematite red about 175'. 223-24 White quartz. 50% barren 175-78, 225-32, 243-250, 251-254.				
254 - 408	MAGNETITIC ARGILLITE - Black, slightly coarser grain, fine gray bands about 10%. Scattered greenstone bands. Usually no evidence of hematite. Banding at 35°. Strong to medium magnetism. Barren greenstone 262-63, 270-72, 287-88, 314-15, 335-38.5. Thin gray bands increasing down hole, becoming 45% to 20% by 290'. Lost core 377-379.				
408	END OF HOLE.				

DRILLED BY _____

SIGNED _____

Ray K. Medford

DIAMOND DRILL RECORD

PROPERTY ATLON-DEPNER - MONTGOLFIER PROPERTY HOLE NO. A-25

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED June 24/57
 LATITUDE 2000 North DATUM _____ COMPLETED July 1/58
 DEPARTURE P.L. 13 Area 3 BEARING South ULTIMATE DEPTH 801'
 ELEVATION _____ DIP Col. -45° 400 -43°
200 -43° 600 -40° 800 -35° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 45	CASING				
45 - 48	GREENSTONE - light green, fairly coarse-grain. 47 - 3" magnetite band.				
48 - 70	MAGNETITIC ARGILLITE - ARGILLITE. Black strong to medium magnetic, interbedded with 20 to 30% gray barren bands up to 1" wide. Core badly fractured, rusty fractures. Banding about 45°. Lost core: 55-58, 61-62.				
70 - 158	MAGNETITIC ARGILLITE - ARGILLITE. Black, strong to medium magnetic with 30% gray non-magnetic. Banding variable but generally around 50° to core. Frequently badly broken, much lost core. No indication of hematite. Lost core: 90-91, 93-94, 110-11, 118-14. Barren grabwacke: 96-98, 117-20, 139-43, 148-45, 151-54				
158 - 174	GREENSTONE - Finely granular, mottled green and dark green crystals. Sharp contact parallel to bedding. A few quartz stringers.				
174 - 259	169 - 2" magnetite band. MAGNETITIC ARGILLITE - black medium magnetic, with perhaps 20% fine gray barren bands.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-SUPPERS - MONTGOMERY PROPERTY HOLE NO. A-25

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
Cont. 174-250	Banding variable 45° to 60°. Streak reddish to black. Greenstone: 174-75, 183-84, 243-48				
250 - 268	GREENSTONE - as above. 263-64 White quartz.				
268 - 437	MAGNETITIC ARGILLITE - Alternating bands as above. Banding somewhat variable but generally around 60°. About 15 to 20% barren.				
	373-83 Banding centered almost parallel to core.				
	400-37 Barren bands increasing to 20 to 30% banding about 50°.				
437 - 451	GRAYWACKE - MAGNETITIC ARGILLITE. Coarse, granular, grayish green, vague bedding.				
	439-43 Black, magnetic as above.				
451 - 496	MAGNETITIC ARGILLITE - Black medium magnetic with about 30% barren bands at 60°. No indication of hematite. Barren graywacke: 495-96.				
496 - 550	MAGNETITIC ARGILLITE - ARGILLITE. Black, medium magnetic, interbanded with 30% to 40% gray non-magnetic in thin bands usually at 60° to core. Greenstone: 517-18.				
550 - 552	ARGILLITE - MAGNETITIC ARGILLITE. As above but non-magnetic, increasing to 50% to 60%. Banding 55 to 60°.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - MONTGOLFIER PROPERTY HOLE NO. A-30

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
581 - 623	MAGNETITIC ARGILLITE - ARGILLITE. Greenstone interbanded magnetics and 40 to 50% non-magnetite in thin bands at 65°. Also coarse green to gray bands up to several feet wide. Scattered grains and crystals of pyrite. Greenstone 582-89, 607-12.				
623 - 675	MAGNETITIC GRAYWACKE - Gray siliceous with about 60% strong to weak magnetic in dark gray to black bands at 60°. Scattered pyrite grains.				
675 - 694	GRAYWACKE - Gray-green, medium-grain, granular 691-92.5 Black magnetic.				
694 - 718	MAGNETITIC ARGILLITE - ARGILLITE. Interbanded strong to medium magnetic with gray-green non-magnetic. About 50% of each. Banding at 65°. Scattered pyrite.				
718 - 801	GREENSTONE - Gray-green, fine-grain, generally massive, occasional magnetite bands up to a few inches wide. Scattered fine specks of pyrite. 760-98: Scattered fine magnetite bands usually at 45° to core.				
801	END OF HOLE.				

N.M.P., TORONTO-STOCK FORM No. 501 REV. 12/51

DRILLED BY _____

SIGNED Ry. K. Inwood

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - MONTFOIGIER PROPERTY

HOLE NO. A-27

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED June 27, 1957

LATITUDE 1600 North

DATUM _____

COMPLETED July 1, 1957

DEPARTURE P.L. 47 Area 3

BEARING SOUTH

ULTIMATE DEPTH 636'

ELEVATION 30' above A-17

DIP 300 -45° Collar -45°
-42°; 600 -37°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 17	CASING.				
17 - 41	MAGNETITIC ARGILLITE - Black medium magnetic, frequent red streak, about 10% fine gray bands at 55°.				
41 - 52	ARGILLITE - Light to dark green, fine to medium irregular banding.				
52 - 191	MAGNETITIC ARGILLITE - Black, medium magnetic with 10 to 20% fine barren bands usually about 55° to core. Streak usually black. Graywacke: 66 - 70, 109-12, 139-46, 153-55.				
191 - 193.5	GREENSTONE - Green, granular contacts sharp parallel to bedding.				
193.5 - 208	GRAYWACKER - Dark gray, fine grain, siliceous no bedding.				
	197-200 Weak magnetic banding at 65°.				
208 - 300	MAGNETITIC ARGILLITE - Generally as above, banding 65° becoming 55° about 250'. Greenstone: 258-59, 290-92.				
NOTE:	The core from 300 to 636 was split in transport. Almost all the core was recovered but it is somewhat displaced. The following appears to be				

N.M.P. TORONTO-STOCK FORM No. 201-REV. 12/51

a reasonable reconstruction.

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DIAMOND DRILL RECORD

PROPERTY ATL IN RUPPNER - Montgolfier Iron Property HOLE NO. A-28

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED July 8, 1957
 LATITUDE 1400 North DATUM _____ COMPLETED July 13, 1957
 DEPARTURE P.L. 13 West Ect. Area #2 BEARING South ULTIMATE DEPTH 724'
 ELEVATION _____ DIP Coll. -45° 200 -41° 700 -35° 400 -30° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 14	CASING				
14 - 106	ARGILLITE - Magnetitic Argillite - Graywacke 25% to 30% black strongly magnetic in bands up to 2' (ft.) wide. Gray green weak to non-magnetic argillite and scattered bands of granular gray green graywacke. Banding at 55° to 65°. No evidence of hematite. Graywacke 18-21, 31-33, 51-53, 55-58, 62-64, 77-78, 80-82, 84-87, 92-94, 95-98, 101-103. Lost core 68-69. 75-106 becoming mainly graywacke and strongly magnetic bands.				
106 - 217	MAGNETITIC ARGILLITE - Black, medium magnetic, reddish hematite streak. Banding somewhat variable but usually around 55° to core. Greenstone 111-114, 163-164.				
217 - 228	GRAYWACKE - Greenish gray, granular, numerous quartz stringers. 219-222 Black magnetic.				
228 - 392	MAGNETITIC ARGILLITE - Black, medium, magnetic, thin banding at 60°. Generally slaty reddish streak. Greenstone 239-41, 288-91, 359-62, 383-85, Graywacke 338-39, 343-44. Lost core 308-10, 379-80. 375-392 Streak becoming brown to black.				
392 - 425	MAGNETITIC ARGILLITE - Black, generally strongly magnetic with frequent gray to greenish argillite or				

N.M.P., TORONTO-STOCK FORM NO. 501 REV. 12/51

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 26

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	graywacke bands. Banding generally 70°. No indication				
	of hematite. Barren 395-97.5, 413-15, 417-20, 423-24.				
425 - 477	MAGNETITIC ARGILLITE - Graywacke Black, strongly mag-				
	netic, somewhat coarser grain, with 40% to 50% gray-				
	wacke. Graywacke 425-32, 435-37, 447-51, 453-55, 456-				
	57, 462-66, 468-70, 471-73, 475-77.				
477 - 505	MAGNETITIC ARGILLITE * Black, strongly magnetic, banding				
	at 60°. About 20% to 30% gray-green bands less than				
	1' wide. No hematite. Graywacke 492-93.				
505 - 510	FELDSPAR PORPHYRY - Gray, fine feldspar phenocrysts,				
	contacts parallel to bedding.				
510 - 523	MAGNETITIC ARGILLITE - As above. Barren 513-15, 521-23.				
523 - 635	MAGNETITIC GRAYWACKE - Thin alternating bands of black				
	strongly magnetic and gray weak to non-magnetic. 30%				
	to 40%. Banding often irregular but usually about 70°.				
	No indication of hematite. Scattered specks of pyrite.				
	Graywacke 546-48, 551-54, 588-600, 606-610, 615-17,				
	619-20, 631-33.				
635 - 702	MAGNETITIC ARGILLITE - Black, medium magnetic with 10%				
	to 20% fine gray bands at 70° to core. Slightly				
	coarser grain. No evidence of hematite. 675-702 increasing				
	barren bands down hole.				

Plotted 200 scale
✓

DIAMOND DRILL RECORD

PROPERTY ATLEN-RUFFNER - Montgolfier Iron Property HOLE NO. 4-29

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED July 9, 1957
 LATITUDE 2500 N DATUM _____ COMPLETED July 18, 1957
 DEPARTURE P. L. 4 Area #3 BEARING South ULTIMATE DEPTH 800'
 ELEVATION _____ DIP Coll -45° 200 -43° 600 -42° PROPOSED DEPTH 800'
400 -43° 800 -37°

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 90	CASING				
90 - 130	MAGNETIC ARGILLITE - Argillite. Black, medium magnetic, interbanded with about 40% grayish green argillite. Banding 60° to core. No evidence of hematite. 90-130 core broke, rusty weathered fractures. Argillite 92-94, 104-06, 110-14, 115-16, 118-19, 120-24, 127-29.				
130 - 163	MAGNETIC ARGILLITE - Graywacke - Greenstone. About 50% black medium magnetic, interbedded with granular gray and green chloritic beds. Barren 130-31, 133-34, 137-41, 145-46, 149-57, 160-63.				
163 - 230	MAGNETIC ARGILLITE - Argillite. Thin alternating magnetic bands about 25%. Banding at 65°. No evidence of hematite. 210-11 Quartz carbonate with hematite. 228 - 225 Black medium magnetic with fine white to pinkish carbonate stringers. 225-30 Core becoming sheared and broken.				
230 - 256	SHEARING - Sheared and broken core, fine irregular white and pink quartz carbonate stringers. Scattered pyrite. 230-36 Banded as above. 236 - 256 Black to dark rusty red, weak magnetism, red streak, probably mostly hematite.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUPFNER - Montgolfier Iron Property HOLE NO. A - 29

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
256 - 291	MAGNETITIC ARGILLITE - Argillite - Thin banded as above, banding 55° to core. Magnetism increasing down hole. 256 - 57 granular, pink, arkosic.				
291 - 465	MAGNETITIC ARGILLITE - Black, generally strongly magnetic with about 10% thin gray bands. Banding somewhat variable but usually around 60°. Streak black black to dark brown. Scattered greenstone bands. Greenstone 292-93, 306-07, 323-23, 325.5-27, 341-42, 346-48, 353-54.5, 386-87, 403-05, 429-30, 433-34, 446-47.				
465 - 644	MAGNETITIC ARGILLITE - Uniform black, medium magnetic, less than 5% fine gray bands at 65° to 70°. Reddish streak. Graywacke 524-25, 581-82, 583-84.5, 595-99, 634.5-36.				
644 - 657	GRAYWACKE - Gray siliceous, granular with knots of biotite and amphibole.				
657 - 800	MAGNETITIC ARGILLITE - Generally as above, reddish streak. Banding about 75°. Greenstone 669-70, 696-97, 760-61, 763-64.				
800	END OF HOLE.				

DRILLED _____

SIGNED _____

Roy H. Medford

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 30

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED July 10, 1957
 LATITUDE 3100 North of Base Line DATUM _____ COMPLETED July 26, 1957
 DEPARTURE P. L. 10 Area #3 BEARING South ULTIMATE DEPTH 872
 ELEVATION _____ DIP Coll. -45° 200 -44° 600 -37° PROPOSED DEPTH 800
400 -40° 855 -33°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 31	CASING				
31 - 123	GREENSTONE - Green, granular, dioritic, with frequent black magnetic bands and scattered gray siliceous bands. Rusty fractures. Scattered Pyrite. 105 - 123 About 50% magnetic bands.				
123 - 150	MAGNETITIC ARGILLITE - Black, medium magnetic, about 5% fine gray bands at 60° to core. No indication of hematite.				
150 - 178	MAGNETITIC ARGILLITE - Greenstone. Banded strong to medium magnetic with 20% to 30% light green bands usually less than 1' wide. Banding at 60°. No hematite. Barren 172-174.5.				
178 - 464	MAGNETITIC ARGILLITE - Strong to medium magnetic, banding at 55°. Streak brown to black. Scattered greenstone bands. Greenstone 205-08, 240-42, 256-57, 265-68, 283-15, 442-47. 275-302 Banding about 60°. 302-337 Dense black, strongly magnetic irregular banding. Core sheared and broken. 333-364 Banding at 65°. Lost Core 373-74, 381-84, 387-89, 406-08.				
464 - 482	MAGNETITIC ARGILLITE - Graywacke - as above with frequent dark bands of granular graywacke. Graywacke 464-65, 474-75, 477-82.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 30

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETE D _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
482 - 600	MAGNETIC ARGILLITE - Generally medium magnetic, less than 10% fine gray bands usually about 65° to core, streak black to brown. Lost core 503-04, 508-09, 527-28, 577-78, 584-85, 586-87. Graywacke 519-21, 576-77, 579-81, 589-91, 597-98.				
600 - 750	MAGNETIC ARGILLITE - Graywacke - Argillite black strongly magnetic with 30% to 40% graywacke in bands 6" to 2' wide. Banding 70° becoming 75° at 700. No hematite. Graywacke 600-01, 613-15, 625-26, 633-35. 635-665 about half barren in irregular bands usually less than 1' wide. Graywacke or Argillite 681-82, 686-87, 692-95, 701-05, 708-10, 713-15, 716-17, 721-23, 735-36, 738-39, 742-46. Lost core 682-84, 708-09, 715-17, 720-22, 733-34, 743-44.				
750 - 872	MAGNETIC ARGILLITE - Black generally strongly magnetic, streak dark rusty red to black. Banding at 70°. Less than 20% barren. Graywacke 773-76, 797-98, 803-05, 812-13, 817-18. Lost core 806-07, 815-16, 822-24. 833 - 853 Shattered and crumbled. 30% of core lost.				
872	END OF HOLE.				

DRILLED BY _____

SIGNED _____

Ry. H. Mansford

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 31

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED July 22, 1957
 LATITUDE 1100 North of Base Line DATUM _____ COMPLETED August 1, 1957
 DEPARTURE P.L. 7 W. Ext. Area #2 BEARING South ULTIMATE DEPTH 800'
 ELEVATION _____ DIP Coll. -45° 200 -45° 600 -37°
400 -43° 800 -29° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 50	CASING				
50 - 159	GRAYWACKE - Gray finely granular, frequent magnetite bands at 60° to core. 126-159 About 50% strongly magnetic bands. 155-159 Bright green, coarse grain.				
159 - 344	MAGNETITIC ARGILLITE - Black, strong to medium magnetic, banding at 60°. Scattered greenstone and graywacke bands. No evidence of hematite. Greenstone 187-88.5, 237-40. Graywacke 178-81, 190-92, 198-200, 201-04, 214-15, 219-20, 225-27, 230-32, 233-24, 252-54, 277-78, 291-93, 294-97, 321-22. Banding becoming 65° at 200' and 70° at 250'. Lost core 223-24, 228-30, 243-45, 248-49, 280-82, 293-94, 297-300, 302-03. 31 2-14 White quartz carbonate.				
344 - 357	GRAYWACKE - Green to gray, massive, finely granular.				
357 - 490	MAGNETITIC ARGILLITE - Greenstone - graywacke. Black banded magnetite at 65°. Generally strongly magnetic. No evidence of hematite, with frequent greenstone and graywacke bands. Greenstone 369-71, 383-84, 386-87, 396-98, 400-01, 444-54, 459-60. Graywacke 402-04, 432-34, 470-74, 476-77, 481-82.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Property HOLE NO. A-32

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED July 22/57
 LATITUDE 700 North of Base Line DATUM _____ COMPLETED Aug. 6/57
 DEPARTURE P.L. 3, W. Ext. Area #2 BEARING South ULTIMATE DEPTH 898
 ELEVATION _____ DIP Coll. -45°; 200 -42°; 500 -36°; 400 -39°; 800 -34° PROPOSED DEPTH 900

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 20	CASING				
20 - 81	GRAYWACKE - varies from gray to granular green similar to greenstone, no bedding, sprinkled with fine pyrite cubes.				
81 - 94	MAGNETITIC ARGILLITE - medium magnetic, banded at 70°. Scattered pyrite cubes.				
94 - 246	GRAYWACKE - gray to green as above, with frequent magnetite bands at 65° to 70°. Sparcely scattered pyrite. Magnetite 207-17, 221-25.				
246 - 290	GREENSTONE - pale green, granular, occasional banding at 70°. Scattered pyrite, magnetite 288-88.5.				
290 - 374	MAGNETITIC ARGILLITE - GRAYWACKE - GREENSTONE Black medium magnetic with 20% to 30% fine gray bands at 65°, also numerous greenstone bands. No evidence of hematite. Greenstone: 303-05, 316-17, 321-24, 327-28, 339-40, 342-47, 362-64, 365-66, 371-74.				
374 - 418	MAGNETITIC ARGILLITE - black, strong to medium magnetic. Banding at 70°. Less than 10% barren. No hematite.				

DRILLED BY _____ SIGNED _____

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUKPNER - Montgolfier Property

HOLE NO. A-32

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD †
418 - 451	GREENSTONE - pale green, finely granular. Magnetic bands: 437-40, 444-46, 449-50.				
451 - 498	MAGNETITIC ARGILLITE - ARGILLITE - GREENSTONE. Thin alternating bands of magnetite and gray-green argillite at 65° to core, about 50% of each, also scattered greenstone bands. Greenstone: 469-70, 480-81, 486-87, 495-98.				
498 - 574	MAGNETITIC ARGILLITE - black, medium magnetic thin banding at 65°. Less than 10% barren, no indication of hematite. Greenstone: 410-11, 529-31, 534-38, 547-50, 562-65, 566-70.				
574 - 604	GREENSTONE- MAGNETITIC ARGILLITE - Gray to green, granular with about 30% magnetic bands up to 1' wide.				
604 - 655	MAGNETITIC ARGILLITE - dense black, strong to medium magnetic, no indication of hematite. fine banding somewhat variable but usually around 50°. Scattered graywacke bands. Graywacke: 605-07, 616-18, 619-21, 626-27, 630-32, 635-38, 642-43.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-BUFFNER - Montgolfier Property

HOLE NO. A-32

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD #	SLUDGE GOLD %
655 - 700	MAGNETITIC ARGILLITE - GREENSTONE. Black, generally strongly magnetic with frequent greenstone bands, no indication of hematite. Banding about 50° to core but frequently variable. Greenstone: 655-57, 669-76, 678-79, 685-92.				
700 - 749	MAGNETITIC ARGILLITE - black, thin banded at 60° Medium magnetic, no indication of hematite, usually slaty. Barren: 725-26, Lost Core: 729-30.				
749 - 758	GRAYWACKE - Greenish gray, fine-grained; 755-57: Black, magnetic.				
758 - 835	MAGNETITIC ARGILLITE - black, thin banding at 70°. Medium to strong magnetic, streak brown to red. Much ground core believed to be magnetite. Lost core: 771-75, 776-77, 781-84, 790-94, 796-800, 816-17, 832-23. Greenstone: 806-10, 820-20. Graywacke: 835-42.				
835 - 898	MAGNETITIC ARGILLITE - GRAYWACKE. Alternating black strongly magnetic and gray barren. Banding at 80° to core. No hematite. Graywacke: 835-42, 850-60, 866-82, 875-82, 890-94. Lost Core: 846-49, 872-74, 889-90.				

N. 1110 TORONTO - STONE FORM. 12/51

898

END OF HOLE.

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 33

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED Aug. 2, 1957
 LATITUDE 1100 North of Base Line DATUM _____ COMPLETED August 12, 1957
 DEPARTURE P.L. 10 W. Ext. Area 2 BEARING South ULTIMATE DEPTH 843'
 ELEVATION - DIP Coll. -45° 200 -40° 600 -36° PROPOSED DEPTH 900
 400 -38° 800 -33°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 10	CASING				
10 - 32	DIORITE - Dark gray, fine grain, becoming very fine at contact. Core badly broken at contact.				
32 - 167	MAGNETITIC ARGILLITE - Graywacke - Dense black, thin banding at 60°. Strongly magnetic with scattered dark graywacke bands. No hematite. 32-39 Badly broken. Graywacke 40-41, 44-46, 48-49, 57-62, 70-71, 75-76, 83-86, 87-89, 101-02, 103-04, 122-23, 128-32, 135-37, 139-41, 147-48, 156-58, 159-62, 165-67. 100-167 Shattered core. Lost core 155-56, 161-62.				
167 - 272	MAGNETITIC ARGILLITE - Black generally medium magnetic, reddish streak, fine banding at 65°. Much lost core. lost core 170-72, 173-74, 176-78, 182-84, 185-86, 196-99, 201-04, 206-08.				
272 - 281	GRAYWACKE - gray-green, fine grain.				
281 - 403	MAGNETITIC ARGILLITE - Medium to strongly magnetic. fine banding at 65°. Dark red streak. Lost core 309-10, 338-41, 343-44, 355-57, 370-72, 378-82. Graywacke 364-70.				
403 - 450	MAGNETITIC ARGILLITE - Greenstone. Black, strong to medium magnetic as above with frequent bands of coarse				

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 33

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	Greenstone. Greenstone 403-12, 422-24, 426-27, 446-50.				
	Lost core 435-37, 439-40, 442-44, 446-50.				
450 - 550	MAGNETITIC ARGILLITE - Black, medium magnetic, thin banding at 60°. Streak becoming dark red from 500-525. Elsewhere no hematite. Broken core. Lost core 454-57, 466-68, 545-47. Greenstone 491-92, 504.5-06.				
550 - 600	MAGNETITIC ARGILLITE - Graywacke. Black strongly magnetic with 40% to 50% gray irregular weak to non-magnetic bands. No hematite. Banding at 60°. Lost core 560-70.				
600 - 655	MAGNETITIC ARGILLITE - Greenstone. Magnetic bands as above with frequent green to gray bands usually granular. Greenstone 600-02, 606-07, 609-12, 614-17, 623-24, 632-34, 641-43, 645-47, 651-55. Lost core 627-30.				
655 - 700	MAGNETITIC ARGILLITE - varies from black strongly magnetic to dark gray medium to weak. Also scattered gray and green barren bands. No hematite. Barren 657-58, 680-83, 693-95.				
700 - 775	MAGNETITIC ARGILLITE - Black, strong to medium magnetic with 10% to 20% thin barren bands. No hematite. Banding at 60° to core but variable from 725-55. Lost core 771-74. Barren 716-17.5, 767-71.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-HUFFER - Montgolfier Iron Property HOLE NO. 4 - 34

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED Aug. 2, 1957
 LATITUDE 500 North of base line DATUM _____ COMPLETED Aug. 6, 1957
 DEPARTURE P. L. 7 W. Ext. Area #2 BEARING South ULTIMATE DEPTH 599'
 ELEVATION _____ DIP Coll. 200 -42° 598 -35° PROPOSED DEPTH 600'
400 -38°

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0 - 11	CASING				
11 - 250	MAGNETITIC ARGILLITE - Black, thin banding at 500, medium magnetic. Reddish hematite streak. Lost core 39-40, 45-47. 53-72 Broken and ground core. Lost 53-55, 56-59, 61-64, 67-68, 76-77. Greenstone 79-80, 150-51, 158-59, 165-66, 171-72. 102-122 Sheared and shattered, irregular banding. 150-180 Banding variable 75° to 20°. Graywacke 219-21. Greenstone 222-23, 226-29. Red streak dying out 225-250.				
250 - 350	MAGNETITIC ARGILLITE - Strong to medium magnetic. No indication of hematite. Banding variable but usually about 55°. Scattered green and gray bands. Greenstone 253-54, 255-56, 271-72, 282-94, 340-44. Graywacke 303-04, 308-13, 345-46.				
350 - 400	MAGNETITIC ARGILLITE - Graywacke. Interbedded black strongly magnetic and 20% to 30% gray-green graywacke, from fine bands up to 1' wide at 55° to core. No hematite, sparsely scattered pyrite. Mostly graywacke 350-52, 354-55, 362-63, 368-69, 372-73, 376-81, 382-84, 385-86, 390-91, 395-96.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A - 35

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED Aug. 5, 1957
 LATITUDE Base Line DATUM _____ COMPLETED Aug. 12, 1957
 DEPARTURE P.L. 3 W. Ext. Area #2 BEARING South ULTIMATE DEPTH 930'
 ELEVATION _____ DIP Coll. -45° 200 -36° 600 -26°
400 -29° 800 -23° PROPOSED DEPTH 850'

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 26	CASING				
26 - 69	MAGNETIC ARGILLITE - Graywacke - Medium magnetic, variable banding 30° to 65°. Frequent graywacke bands. Core badly broken, weathered fractures. Graywacke 37-39, 51-52, 64-67. Lost core 42-43, 44-45, 53-54, 56-57.				
69 - 170	MAGNETIC ARGILLITE - Black, strong to medium magnetic, banding 30° to 65°. Streak black to rusty brown. Lost core 71-73, 98-99, 139-40, 153-54, 167-68, Graywacke 84-85, 92-94, 103-5-05, 124-25, 126-27, 133-34, 148-49, 158-60, 164-66.				
170 - 242	MAGNETIC ARGILLITE - Black, thin banding at 60°, medium magnetic, streak black to dark rusty red. Graywacke 206-08. Lost core 172-79, 206-08, 221-22, 241-42, 235-36.				
242 - 253	QUARTZITE - Light gray to white, granular, rather limey looking.				
253 - 375	MAGNETIC ARGILLITE - Graywacke, strong to medium magnetic, banding about 60°. No evidence of hematite. Numerous graywacke bands. Lost core 254-55. Graywacke 272-74, 278-79, 280-81, 284-85, 286-89, 292-93, 294-96, 298-300, 301-06, 308-10, 333-37, 348-49, 351-52, 364-66.				

DIAMOND DRILL RECORD

PROPERTY ATLIM-RUFFNER - Montgolfier Iron Property HOLE NO. A - 35

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
375 - 426	MAGNETIC GRAYWACKE - Strong to medium magnetic, thin banding at 60°, interbedded with variable amounts of gray to green graywacke. No evidence of hematite. 375-462 50% barren graywacke. 402-426 20% barren graywacke.				
426 - 466	GREENSTONE - Green, generally fine grain, scattered pyrite. A few widely scattered magnetite bands.				
466 - 512	GREENSTONE - Magnetic bands. Greenstone as above with frequent sections of thin banded magnetite at 60°. Scattered pyrite. Magnetic 466-72, 477-81, 493-97, 507-10, 513-14, 518-19, 528-29.				
512 - 698	MAGNETIC ARGILLITE - Greenstone. Thin banded at 60°, strong to medium magnetic, no hematite. Numerous coarse greenstone bands. Sparse pyrite. Lost core 639-43. Greenstone 544-45, 553-55, 566-69, 570-83, 590-92, 594-96, 601-05, 606-08, 610-13, 615-19, 623-25, 626-29, 632-34, 636-39, 660-67, 678-85.				
698 - 722	GREENSTONE - Green, fine to medium grain, occasional magnetic bands, scattered pyrite. Magnetic 719-22.				
722 - 763	GRAYWACKE - Gray, finely granular, about 10 to 20% magnetic in bands up to 2" wide at 75° to core. Scattered pyrite, usually with the magnetite.				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

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DIAMOND DRILL RECORD

PROPERTY ATLW. BURNER - Montgolfier Iron Property HOLE NO. A - 36

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED August 12, 1957
 LATITUDE 3' North of Base Line DATUM _____ COMPLETED August 17, 1957
 DEPARTURE P. L. 15, E. Ext. Area #2 BEARING South ULTIMATE DEPTH 640'
 ELEVATION _____ DIP Coll. -45° 200 -42° 600 -33° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD S	SLUDGE GOLD S
0 - 110	CASING - 0 - 60 Clay 60 - 110 Clay and boulders.				
110 - 126	GREENSTONE - Green, generally fine grain, a few narrow magnetite bands at 65°.				
126 - 188	MAGNETITIC ARGILLITE - Black, strong to medium magnetic, thin banding at 65°, no hematite. Greenstone 130-33. Graywacke 151-52, 171-72, 177-78, 179-81. 133-135 Core badly sheared and broken. Lost core 167-70, 172-74, 183-84, 186-88.				
188 - 225	MAGNETITIC ARGILLITE - Graywacke. Black, strongly magnetic, thinbanding at 65°, no hematite, interbedded with numerous bands of graywacke up to several feet wide. Lost core 199-200. Graywacke 191-92, 193-96, 200-02, 204-07, 211-12, 214-18, 220-24.				
225 - 249	GRAYWACKES - Magnetitic Argillite. About 60% barren graywacke and greenstone alternating with strongly magnetic bands usually less than 2" wide at 65°. No hematite.				
249 - 402	MAGNETITIC ARGILLITE - Strongly magnetic, thin banding at 65°, no hematite, about 20% to 30% barren graywacke in bands usually less than 1' wide.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUPPER - Magnetifer Iron Property HOLE NO. A-35

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	Mostly graywacke 250-52, 263-66, 294-99, 306-08, 325-28, 345-47, 354-57, 359-61, 369-70. Lost core 282-84, 273-80, 314-15, 314-18, 319-20, 300-350 Generally less than 20% barren. 375-394 generally less than 20% barren. 394 - 400 about 75% barren.	Sample #363 -		Representative of the Magnetitic Argillite from 126 - 454.	
		129-130		164-165	
		185-186		208-208	
402 - 409	ARGONITES - light green, vague banding, fairly coarse.	228-229		253-254	
409 - 434	MAGNETITIC ARGILLITE - black, strong to medium magnetic, thin banding at 65°. Becoming slaty. No evidence of hematite. Graywacke 411-12, 422-23, 426-27.	276-277		300-301	
		328-329		353-354	
		375-376		434-435	
434 - 454	MAGNETITIC ARGILLITE - thin banding at 65°, slaty, medium magnetic. 434-451 Red hematite streak, sharp contacts. No gradation. Lost core 449-50.	434-435		450-451	
454 - 638	ORISENSTONE - GRAYWACKE - MAGNETITIC ARGILLITE - Alternating thin bands at 70°, gray to green to black magnetic. 454-479 About 50% magnetic bands. 479-502 Almost totally barren. 502-513 60% to 70% strongly magnetic bands. 513-575 Less than 10% magnetic. 575-638 A few scattered low magnetic bands. Scattered pyrite grains.				
638	END OF HOLE.				

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DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property

HOLE NO. A - 37

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED Aug. 21, 1957

LATITUDE 1700 South

DATUM _____

COMPLETED Aug. 25, 1957

DEPARTURE P.L. 5, E. Ext. Area #2

BEARING South

ULTIMATE DEPTH 650'

ELEVATION _____

DIP Coll. -45° 200 -37° 600 -33°
400 -37°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g
0 - 154	CASING 0 - 90 Clay 90 - 154 Clay, boulders, gravel				
154 - 183	GRAYWACKE - Dark gray, fairly fine grain, occasional thin banding at 65° to core. Lost core 168-170, 174-75. 180-183 A few fine magnetite bands.				
183 - 259	MAGNETITIC ARGILLITE - Black, thin banding at 65°. Strong to medium magnetic, streak usually black, but sometimes red. Greenstone 201-03.5, 220-22, 228-30, 252-54. 234-47 About 50% barren greenstone. Lost core 215-17, 223-24, 250-52, 255-59.				
259 - 300	GREENSTONE - GRAYWACKE - Magnetitic Argillite. Variable coarse green to fine gray, with about 25% strongly magnetic bands up to 6" wide.				
300 - 388	MAGNETITIC ARGILLITE - Thin banding at 65°, strong to medium magnetic, occasional red hematite streak. Scattered greenstone bands. 305-347 Badly shattered, much lost core. Lost core 307-08, 313-15, 317-20, 332-35, 337-38, 364-65, 386-88. Greenstone 310-11, 325-31, 345-47, 351-54, 371-73. 354-380 Streak generally red.				
388 - 422	MAGNETITIC ARGILLITE - Graywacke - Black, strongly magnetic, interbanded with gray weak to non-magnetic, about				

DIAMOND DRILL RECORD

PROPERTY ATLIN-RUFFNER - Montgolfier Iron Property HOLE NO. A-37

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	50% of each. No evidence of hematite. Mostly gray-wacke 382-93, 405-07, 409-13, 416-19, 420-22.				
422 - 485	MAGNETIC ARGILLITE - Dense Black strong to medium magnetic. Banding variable but usually steep around 70°. About 10% barren bands. Usually red hematite streak. Greywacke 471-73.				
485 - 518	MAGNETIC ARGILLITE - Thin banded strongly magnetic with about 20% barren bands. Banding crenulated and contorted. No evidence of hematite.				
518 - 574	MAGNETIC ARGILLITE - Dark purple black, thin banding at 60°, medium magnetic, dark red hematite streak. Greenstone 539-40, 547-48, 573-74.				
574 - 611	MAGNETIC ARGILLITE - Black, strong to medium magnetic with 10 to 20% thin barren bands. Streak usually red. 600 - 611 Streak becoming black.				
611 - 650	GREENSTONE - Green, fine banding at 70°. A few magnetic bands becoming less numerous down hole. Lost core 642-45.				
650	END OF HOLE.				

Ry K. Medford