



32D045W0352 28 BOSTON

010

Diamond Drilling

Township: OF BOSTON

Report NO: 28

Work performed by: MARSHALL BOSTON IRON MINES

Claim NO	Hole NO	Footage	Date	Note
L 71475	1	400'	DEC/71	(1)
L 71476	2	150'	DEC/71	(1)
L 71478	3	227'	DEC/71	
	4	179'	DEC/71	(1)
L 71474	13	593'	FEB/72	(1)

Notes: (1) 242/72

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines, Boston
 HOLE NO. 72-1 LENGTH 400' Township
 LOCATION L8N, 10 + 05 E
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 095° DIP -40°
 STARTED Dec. 6/71 FINISHED Dec. 8/71

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
Surface	-40°				
400'	-42°				

HOLE NO. 72-1 SHEET NO. 1

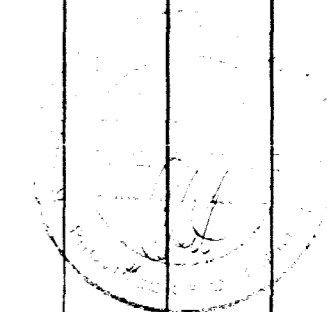
REMARKS _____

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	16	Casing									
16	25	Andesite; green-black in colour, epidotized, disseminated pyrite, pyrrhotite.									
20.3	20.5	Quartz blebs									
22	23.5	Blocky rock									
24.2		Quartz vein 20° to C.A. (1 mm. wide)									
25	50	Apple green, chloritic, epidotized volcanic quartz present in blebs and veinlets 40° to C.A. This section is brecciated.									
50	71.5	Chloritized, epidotized, volcanic sequence, apple green to dark green in color.									
50	52	Brecciated									
58.9		Quartz vein 40° to C.A. Disseminated pyrite /1%.									
71.5	75	Change of rock, colour apple green, gradational contact, disseminated pyrite.									
72.3		Quartz feldspar blebs 40° to C.A.									
74.5		Quartz vein 40° to C.A.									
75	84.5	Same as above. Altered brecciated volcanic with disseminated pyrite.									
82.6		Banding 47° to C.A.									

EM. 6-1168

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines, Boston
 HOLE NO. 72-1 LENGTH 400' Township _____
 LOCATION L8N, 10 + 05 E
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 095° DIP -40°
 STARTED Dec. 6/71 FINISHED Dec. 8/71

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
Surface	-40°				
400'	-42°				

HOLE NO. 72-1 SHEET NO. 2

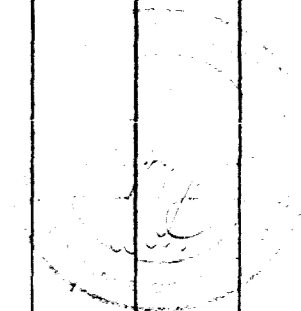
REMARKS _____

LOGGED BY N. Brewster

EM. 6-1168

LANGRIDGE LIMITED,

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	oz/ton	oz/ton
				FROM	TO	TOTAL				
84.5	87	Andesite, dark green-black; contact at 84.5 sharp. Banding 40° to C.A.								
87	100	Altered volcanic; apple green colour, silicified, epidotized.								
88.5	89	Possible fault.								
92.5	93.5	Chlorite fragment.								
96.7	97	Granitic zone. Quartz vein 20° to C.A. (8 mm. wide)								
98.6		Mineralization 85 - 87.1 disseminated pyrite 99.1 - 99.6 disseminated pyrite								
100	125	Andesitic volcanics, dark green in colour, with bleached apple green equivalent. Epidote minerals common granitic zones present. 112 - 114.5 Fault zone, broken rock.								
104	105	Disseminated pyrite)								
111	112	Disseminated pyrite) 1%								
116	118	Disseminated pyrite)								
122	124	Disseminated pyrite)								
125	150	Same as above. Dark green andesite with bleached apple green equivalent.								
129	130	Granite zone.								
136.6		Quartz vein 5 mm. wide.								
145	148	Brecciated zone; disseminated pyrite /1%.								



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines, Boston
 HOLE NO. 72-1 LENGTH 400' Township _____
 LOCATION L8N, 10 + 05 E
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 095° DIP -40°
 STARTED Dec. 6/71 FINISHED Dec. 8/71

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
Surface	-40°				
400'	-42°				

HOLE NO. 72-1 SHEET NO. 3

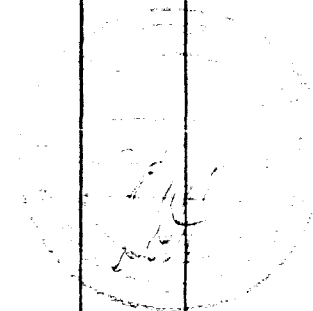
REMARKS _____

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
150	160	Dacite. Volcanic tuff? Dark grey-black in colour, hard, fine-grained	1		150	155	5'	0.09	0.02	0.05	
151.5		Contact; talc 20° to C.A.	2		155	160	5'	0.10	1.00	0.05	
158.5		Banding (bedding) 68° to C.A.									
157.6	158.2	Talc 20° to C.A.									
153.5	159	Pyrite in bands (68° to C.A.) and disseminated, 1 - 2%									
156.8	159	Sphalerite (zinc) disseminated in flecks and blebs (varies from 45-60° to C.A.) 2%									
160	175	Andesite: Light blue-green colour, medium fine grained.	3		160	163.2	3.2'	0.03	0.14	0.05	
168.8		Talc veins 35° to C.A. Schistosity 45° to C.A.									
175	200	Andesite: Uniform, grey colour									
192.1		Pyrite stringers 1 mm. wide 30° to C.A.									
200	225	Biotite Schist									
200	206.5	Metamorphosed andesitic volcanic									
206.5	221.2	Bleached andesite									
221.2	221.9	Minor pyrite on slip planes /1%									
222.9	223	Minor zinc /1%	4		222.5	225	2.5	0.03	0.11	0.03	
225	235	Dacite: tuff? Dark, black hard siliceous, sphalerite 1%; scattered chalco /1%	5		225	230	5'	0.05	0.23	0.05	
235	264	Andesite: Green volcanic	6		230	235	5'	0.04	0.11	0.05	

EM. 6-1168

LANGRIDGE LIMITED,



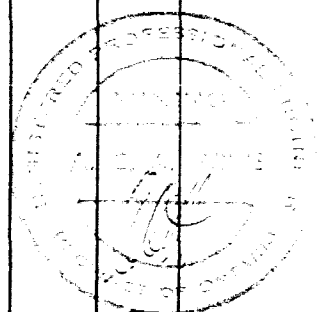
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines

HOLE NO. 72 - 1

SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
350	400	Andesite: Bleached apple green andesitic volcanic									
350	361	Breccia zone cemented by carbonate									
361	370	Light grey, fine-grained hard dacitic volcanic, disseminated pyrite \angle 1%									
367		Carbonate stringers 50° to C.A.									
368		Talc vein 2 mm. wide 48° to C.A. Carbonate vein 45° to C.A.									
370	375	Light green andesitic volcanic, \angle 1% pyrite									
372.1		Carbonate 10° to C.A.									
375	385	Light green altered andesitic breccia zone, cemented with carbonate									
385	400	Dark green unaltered andesite, pyrite \angle 1%									
		End of hole									



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston, Boston Township
 HOLE NO. 72-2 LENGTH 150'
 LOCATION L8N 2 + 75W
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 090° DIP -40°
 STARTED Dec.10/71 FINISHED Dec.11/71

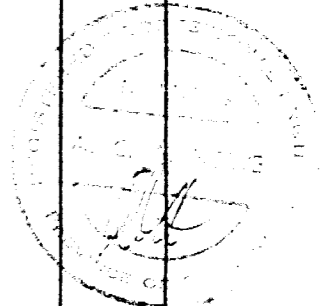
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-2 SHEET NO. 1

REMARKS _____

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	10.5	Casing									
10.5	13	Rhyolite, dull light green siliceous volcanic (rhyolitic) Flaky texture, hard, dense rock. Pyrite crystals scattered throughout the mass (grain size 1 - 6 mm.) 1% Towards the end of the section the rock has a grey tint.									
13	25	Gabbro. Chloritic, pyroxenitic rock, mafics compose 90% of rock mass, gabbroic intrusive or coarse-grained phase of andesitic lava (gabbro), pyroxene crystals 5mm. pyrite crystals /5%. Various places contain quartz up to 3%									
25	50	Gabbro. Same rock type as above. Predominant mafic that can be identified is pyroxene 85% (short stubby crystals). Biotite is present 3%; calcic feldspars 10%; pyrite 1-2% disseminated.									
41.5	42	Somewhat more acidic sections (syenite) (basic)									
47	48	Differentiation changes									
50	75	Same as above									
50	51.2	Syenitic zone									
51.2	53	Fragmental zone, possibly volcanic remnants.									
	54.3	Shears 35° to C.A. filled.									
	66.4	Talc mineralization on shear plane 40° to C.A. Pyrite scattered throughout. Length of core box 1 - 2% Mafics altered to chloritic and sericitic minerals, low grade metamorphism.									
	69.5	Pyrite in shears 40° to C.A.									



EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston, Boston Township
 HOLE NO. 72 - 2 LENGTH 150'
 LOCATION LSN 2+75W
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 090° DIP -40°
 STARTED Dec.10/71 FINISHED Dec.11/71

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-2 SHEET NO. 2

REMARKS _____

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO					TOTAL
75	100	Same rock type as above.									
81.6	85	Fragmented zone, shears 45° to C.A. cut across fragments 83.2'									
86		Pyrite bands 75° to C.A.									
95.5	100	Fragmented zone rock (dark syenitic basic) mafics 75%, light (feldspars) 25%									
100	125	100 - 101 Same as above									
		101 - 105 Fragmented zone with light syenitic matrix, light green colour									
		105 - 106.9 Volcanic, andesitic									
		107 - 122 Syenitic zone with fragments 1 - 3 cm. long, light apple green epidote mineralization.									
		122 - 122.5 Granitic lens									
		123 - 123.5 Granitic lens									
125	150	Andesite, dark green coloured igneous rock type, mafic consists of chlorite and biotite varying from 50 to 70% of rock mass altered from pyroxenes. Light minerals compose 30 - 50% of rock, pyrite 1 - 2%.									
		143.8 - 144.2 Chloritic schist. 40° to C.A.									
		144.2 - 150 Chloritic, biotite, volcanic.									
		END OF HOLE									

EM. 6-1168

LANGRIDGE LIMITED,

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DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston, Boston Township
 HOLE NO. 72 - 3 LENGTH 227'
 LOCATION L4S 7+95W
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 175° DIP -40°
 STARTED Dec.15/71 FINISHED Dec.17/71

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
collar	-40°				
227'	-43°				

HOLE NO. 72 - 3 SHEET NO. 1

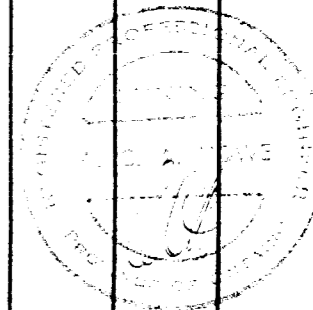
REMARKS _____

LOGGED BY N. Brewster

FOOTAGE	DESCRIPTION	SAMPLE			ASSAYS								
		FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON					
0	75	Andesite - grey blue volcanic rock, medium grained (2mm) to fine (1/1mm). Identifiable minerals consist of calcic plagioclases (labradorite to anorthite), mafic minerals believed to be pyroxene, pyrite 1% This is believed to be coarse-grained phase of andesitic lava.											
0	6	Casing											
7	8	Flaky texture, the rock is dense fine-grained size 1/1mm.											
	66.7	Talc in slip 40° to C.A.											
75	150	Andesite, intruded by aplite igneous rock, causing prominent alteration effects (not consistently) in the andesite. Clean sharp contacts between the two rock types lacking alteration effects are present, along with contacts where alteration is evident.											
86.8		Contact between dark green andesitic rock and dull pink-colored aplitic rock 25° to C.A. Contact sharp, no alteration.											
90		Sharp contact again;											
90	92.1	Andesite											
92.1	92.6	Aplite, sugary texture											
92.6	101.7	Appears to be a breccia, with dark green andesite fragments, contained in a lighter apple green siliceous (hard) aphanitic matrix.											
91.9		Pyrite 1%											
94.3		Carbonate, aplite 26° to C.A.											
100.8		Andesite fragments show solution edges.											

EM. 6-1168

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston, Boston Township
 HOLE NO. 72 - 3 LENGTH 227'
 LOCATION L4S 7+95W
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 175° DIP -40°
 STARTED Dec.15/71 FINISHED Dec.17/71

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
collar	-40°				
227'	-43°				

HOLE NO. 72-3 SHEET NO. 2

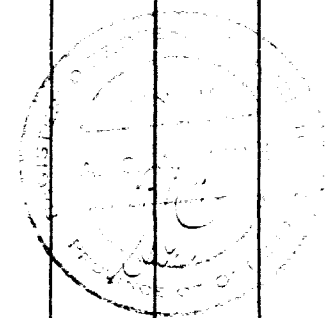
REMARKS _____

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS																				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON																
					FROM	TO	TOTAL																			
101.7	116.4	Aplite - dull brick red to pink red aplitic rock type. Crystal development poor, and crystals hard to identify. Biotite visible.																								
115.8	116.4	Coarser-grained section.																								
116.4	116.5	Altered section.																								
116.5		Contact with green andesitic rock, 35° to C.A.																								
117.8		Andesitic breccia, fragments visible, light altered section (intersecting shears 30° to C.A.)																								
119.0	119.5	Syenite (subhedral crystals, appreciable quartz lacking) Contact 51° to C.A.																								
		Minerals present: <table style="display: inline-table; vertical-align: middle;"> <tr> <td></td> <td style="text-align: center;">%</td> <td style="text-align: center;">Grain Size</td> </tr> <tr> <td>Feldspar</td> <td style="text-align: center;">45</td> <td style="text-align: center;">4 mm</td> </tr> <tr> <td>Pyrite</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1 mm</td> </tr> <tr> <td>Green coloured matrix</td> <td style="text-align: center;">53</td> <td></td> </tr> <tr> <td>Quartz</td> <td style="text-align: center;">1 - 2</td> <td></td> </tr> </table>		%	Grain Size	Feldspar	45	4 mm	Pyrite	1	1 mm	Green coloured matrix	53		Quartz	1 - 2										
	%	Grain Size																								
Feldspar	45	4 mm																								
Pyrite	1	1 mm																								
Green coloured matrix	53																									
Quartz	1 - 2																									
119.6	125	Andesitic Breccia, alteration zones having light apple green colour																								
120.2	121	Fragments visible, pyrite <1%																								
124.6		Granitic bleb, pyrite 1%																								
125	150	Rhyolite																								

EM. 6-1168

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston, Boston Township
 HOLE NO. 72-3 LENGTH 227'
 LOCATION L4S 7+95W
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 175° DIP -40°
 STARTED Dec.15/71 FINISHED Dec.17/71

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
collar	-40°				
227'	-43°				

HOLE NO. 72-3 SHEET NO. 3

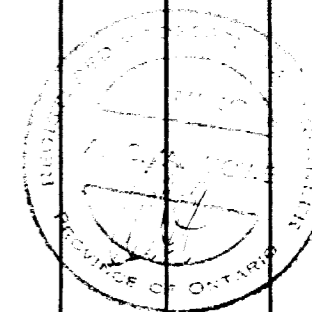
REMARKS _____

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
125	137.5	Massive, fine-grained rock, flaky texture, (rhyolitic) volcanic, light green colour, siliceous look. Pyrite 1 - 2%, disseminated throughout matrix (grain size 1 - 2 mm.)										
125.2		Chalco. crystals in feldspar bleb /1%. Rock contains inclusions of basic lavas.										
129.4	131.5	Andesite										
130	130.4	Coarse-grained phase (diioritic, pyrite 2%).										
135.4	136	Similar to above.										
137.5	138.3	Syenite										
138.3	139.5	Granitoid rock, characterized by green minerals forming matrix containing lighter crystals (grain size 1 - 3 mm)										
139.5	150	Appears to be cemented andesitic breccia, carbonates present; colour dark green, light green altered sections.										
142.8	143.5	Syenite contact 20° to C.A.										
150	157.4	Similar to above. Colour varies from apple green (bleached sections) to dark green. Lighter sections have carbonates present as blebs (153) and veinlets in fractures (153.5).										
157.4	163.8	Syenite. 163.8 sharp contact 40° to C.A. but rock is bleached to light lime green in vicinity (163.8-164.4)										
165.	168.7	Syenitic rock										
168.7	169	Gradational contact.										

EM. 6-1168

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston, Boston Township
 HOLE NO. 72 - 3 LENGTH 227'
 LOCATION L4S 7+95W
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 175° DIP -40°
 STARTED Dec.15/71 FINISHED Dec.17/71

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
collar	-40°				
227'	-43°				

HOLE NO. 72-3 SHEET NO. 4

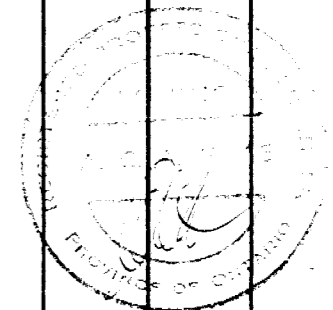
REMARKS _____

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
169	178.1	Andesitic unit bleached with carbonates, silicification, /1% Zn.										
178.1	178.1	Syenite. Sharp contact.										
178.1	190.4	Syenite										
190.4	196.8	Bleached alteration zone. Carbonates present as veinlets and blebs. Silicified.										
193.3	193.6	Syenite										
196.7	227	Red fine-grained flaky sugary textured aplite.										
214.7		Slip planes 20° to C.A., exhibit talcose mineralization.										
		END OF HOLE - 227'										

EM. 6-1168

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines, Boston Township
 HOLE NO. 72 - 4 LENGTH 179'
 LOCATION L4S 7 + 00W, offset 65'N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 130° DIP -40°
 STARTED Dec.19/71 FINISHED Dec.20/71

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
Collar	-40°				
179'	-43°				

HOLE NO. 72-4 SHEET NO. 1

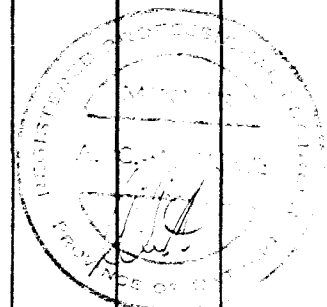
REMARKS _____

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON			
					FROM	TO	TOTAL							
0	12.9	Casing												
12.9	75	Syenite - dull red colour, occasional feldspar phenocrysts, massive fine-grained matrix, minor chlorite minerals \angle 5%												
19	22.8	Basic syenite, light grey colour probably due to assimilation of basic country rock - grey white matrix (possibly calcic feldspars)												
55	75	Red coloured syenite, white feldspar phenocrysts 5%, chlorite minerals in matrix 5%, massive subhedral fine-grained matrix. Slips at 33° to C.A. common.												
68.9		Quartz veinlet 28° to C.A.												
75	100	Altered Volcanics- section of altered basic volcanics probably due to proximity of above syenite. Silicification, carbonate (the latter filling voids caused by shearing associated with syenite intrusion) and epidotization are present.												
76.5		Quartz vein 50° to C.A.												
77.3	80	Py.-Pyrrhotite mineralization (appears to be banded 55° to C.A.)												
78.4		Minor chalco (\angle 1%) on slip												
79.1	81.3	Pyrrhotite	24		79.1	81.3	2.2	0.10	0.04	0.06				
82		Prominent banding 47° to C.A.												
81.2		Minor (Zn \angle 1%) resinous red-brown sphalerite on calcite veinlet 2-3mm. wide, 40° to C.A.												

EM. 6-1168

LANGRIDGE LIMITED,



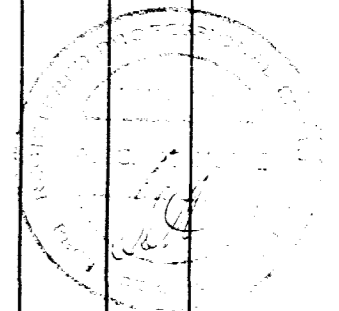
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines

HOLE NO. 72 - 4

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS								
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	%			
					FROM	TO	TOTAL							
83.2		(Altered volcanics - continued) Resinous brown-coloured mineral (sphalerite) and light green-white mineral contained in carbonate vein, 38° to C.A. (1 cm. wide), clean contacts on either side	25		83.1	85	1.9							
86		Quartz vein 10° to C.A.												
94.2	94.5	Dacitic tuff, breaks with conchoidal fracture, dark grey colour, massive fine-grained (gritty), weak banding 52° to C.A., pyrite on bands. The rock varies in colour through various shades of green to light grey with lime tint.												
97.8	100	Disseminated zinc 1% in bands (weak) 41-47° to C.A.	26		97.7	102.7	5'	0.07	0.26	0.05				
99.5		Siliceous zone 1.5 cm. wide at 41° to C.A.												
100	125	Volcanic green (basalt) The rock is predominantly dark green in colour. Chloritic (feldspar phenocrysts 1 - 2%) altered zones and basic syenite sections are present.												
100	101.3	altered volcanic, minor Zn \angle 1% (disseminated)												
101.3	102.6	Silicified zone disseminated Zn 1.5%, chalco \angle 1%, pyrite												
103.3	108.9	Syenite (basic) contains inclusions of basic volcanic material.												
108.9	123.4	Basalt - dark green to black basic volcanic.												
118		Specks of sphalerite \angle 1% in altered blebs.												
120.4		Sphalerite specks in altered band (light green) 30° to C.A.												
122.2		Minor chalco \angle 1%												
123.4	125	Syenite - dull grey-white colour, massive texture, biotite \angle 5%												



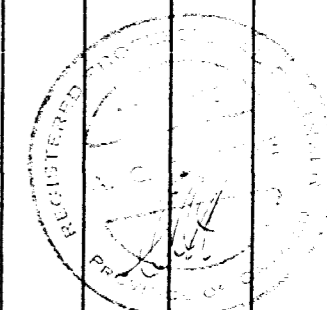
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines

HOLE NO. 72 - 4

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
125	145	Basalt - similar to above, dark green to black colour, intermediate to fine-grained.									
126.8		Syenite vein 1.5cm. wide									
127.2		Light apple-green talc									
127.6		Altered in places to lighter lime-green colour.									
131		Metamorphosed to chlorite schist in sections.									
140.3	141.2	Coarse-grained section, feldspar phenocrysts, in chloritic matrix									
145	148.8	Talcose, chloritic rock very soft (cut with knife) alteration zone									
148.8	150	Syenite - This portion appears basic, due to assimilation of wall rock.									
150	175	The rock is predominantly a brick-red syenite. At 153.3 to 156.2) containing portions of altered 160 to 167.7) basic volcanics (basalt).									
165	168	Sections of the syenite are light grey in colour. Mineralization is predominantly siliceous (feldspars in red matrix, chlorite minerals present \angle 5%) composition due to assimilation of wall rock.									
171.5	173.7	Soft, altered, fragmented, basic volcanic, cemented with carbonates.									
173.7	174	Quartz-feldspar porphyry zone.									
174.3	175	Syenite with basic volcanic fragments.									
175	179	Syenite containing basic volcanic fragments. Minor chalco (speck) at 176.3. Possible galena on slip 175.7									
		END OF HOLE									



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited,
 HOLE NO. 72-13 LENGTH 593' Boston Township
 LOCATION 90' North of 3+30E, Line 4S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 332° DIP -60° NW
 STARTED Feb. 9, 1972 FINISHED Feb. 13, 1972

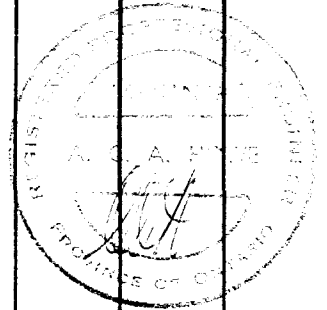
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
250	-60°				
593	-57°				

HOLE NO. 72-13 SHEET NO. 1
 REMARKS _____
 LOGGED BY N. Brewster

EM. 6-1168

LANGRIDGE LIMITED,

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	4' 1"	Casing										
4' 1"	20'	Andesite: the rock is grey-green in colour, isslightly saussuritized and the mafics altered to chlorite (1 mm. grains) Feldspar phenocrysts (1 - 4 mm.) are white in colour										
20'	45'	Dacite: dense, microcrystalline grey-green volcanic, exhibiting subconchoidal fracture. Edges show some saussuritization. Carbonates are present as fracture filling.										
32'	35'	Light green alteration zone.										
33'10"	35'	Broken core; possible fault.										
45'	93'11"	Siliceous pyroclastic unit: This is a dense microcrystalline rock exhibiting a flaky texture. Colour varies through pale greens & greys with tints of pink. Minor pyrite <u>1%</u>										
	58'1"	Carbonate filling fractures 30° to C.A.										
	77'	Bedding 140° to C.A.										
	93'11"	Sharp contact 150°- 030° to C.A.										
93'11"	97'10"	Andesitic rock type, fine-grained: rock tends to be more Siliceous as lower contact approaches.										
97'10"	100'3"	Same as above (45 - 93'11")										
	99'8"	Grey mineralization (speck) Pb?										



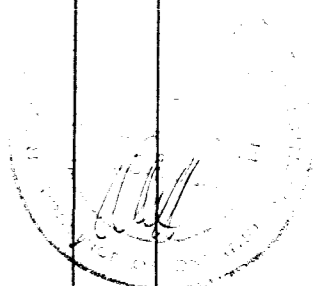
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 13

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
100' 3"	132' 2"	<p>Lamprophyre: Dark grey-green rock, medium-grained matrix (2 - 3 mm) consisting of chlorite minerals 40 - 60% and grey-white feldspars 40%. The matrix is partially saussuritized. Chlorite phenocrysts 20% Feldspar phenocrysts 20%</p> <p>Talc mineralization and pyrite occur along fracture planes 30° to C.A.</p> <p>Carbonates present 38° to C.A.</p> <p>Syenite phase. Gradational change of rock type to a more siliceous nature, this aspect due to assimilation of wall rock. Euhedral pyrite crystals disseminated throughout 3 - 4%.</p>								
	110' 9"									
	121' 9"									
123' 8"	124' 5"									
130'	132' 2"	<p>Dacite: Grey-green rock type</p> <p>Basic Syenite</p> <p>Siliceous grey-green pyroclastic: possessing a dense, flaky aphanitic texture and exhibiting subconchoidal fracture; sections of the rock are very light lime green colour.</p> <p>Bedding 38° to C.A. Quartz segregations occur, bleb of chalcopyrite</p> <p>Clasts Quartz stringers 38° to C.A.</p> <p>Feldspar (orthoclase) rich section (carbonate material occurs between clasts)</p>								
132' 2"	136' 7"									
136' 7"	140' 7"									
140' 7"	220'									
	152' 9"	<p>Alteration zone: similar base material as above, however the zone has been somewhat altered, allowing the development of talc and chloritic minerals.</p>								
	167' 3"									
165'	166'									
	171' 3"									
208'	212'	<p>Broken section, fault</p>								
220'	225'									
221'	225'									



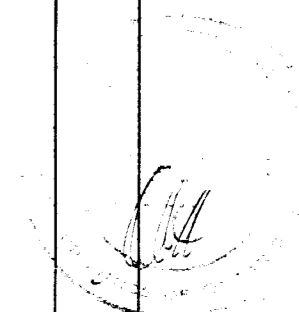
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 13

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	%	
					FROM	TO	TOTAL						
225'	267'	Altered zone: Appears to have once been a siliceous pyroclastic section which has subsequently been altered to talc minerals. The rock possesses a cataclastic texture. Throughout this section the rock is very soft and has been chewed up by the drill. This is probably a fault zone.											
267'	275'	Same rock as above, however not as severely broken or altered.											
275'	300'	Altered pyroclastic: Extensive talc mineralization, grey-green colour.											
300'	342'6"	Dacite flow: The upper and lower contacts of the flow are bounded by chill margins approximately 5' wide. This margin is lighter (grey-brown) in colour than the main portion of the flow. Pyroxene phenocrysts have developed. Lower contact 160° to C.A.											
342'6"	350'	Siliceous pyroclastics: Banded pyrrhotite (developed on bedding planes) 1 - 2%, trace of chalco. Bedding 38° to C.A.											
350'	400'	Dacite: Siliceous pyroclastic tuff, light grey to grey-brown in colour.											
365'	400'	Pyrrhotite occurs on bedding planes.											
	371'10"	Bedding 47° to C.A.											
	377'10"	Bedding 134° to C.A. Pyrrhotite approx. 10% of rock.	76			390'	395'	5'	0.01	0.02	Nil		0.02
			77			395'	400'	5'	0.01	0.02	Nil		0.01
400	412'9"	Similar to above, approx. 4% sulphide minerals, pyrite predominates.											
412'9"	414'11"	Dacite flow: Chill margins on either side, same as 300' - 342'6"											



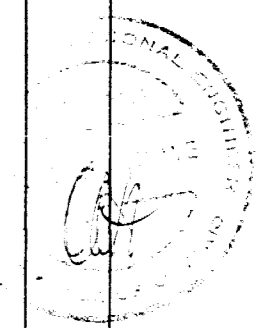
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 13

SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
414'11"	415'5"	Basalt: Intrusion altered to chlorites, thin alteration zone 1 - 2 mm on upper contact, 7 - 8" on lower. The lower contact 90° to C.A.									
415'5"	450'	Andesitic melano volcanic tuff: Grey-green in colour varying to pale lime green in what are altered sections. These altered sections occur where fractures (frequently filled with carbonates) cut the rock.									
	443'6"	The walls of the altered sections form sharp contacts with the enclosing rock. 38° to C.A. Within the halo itself gradual colour changes occur. Pyrite <u>1%</u> Pyrrhotite 1 - 2% on bedding planes at 40° to C.A.									
	443'	Lenoid clasts									
	447'	Small (1 - 2 mm) garnets 2%; pyrite smears									
450'	475'	Similar to above bedded tuff with pyrrhotite occurring on bedding planes. The rock is light to medium green-grey in colour. Alteration zones accompany larger fractures which have been predominantly filled with pyrrhotite, minor pyrite and in some instances garnet. Minor saussuritization evident. Sulphides form approximately 5% of the rock.									
468'	473'	Rhyolitic rock type, light grey in colour.									
468'	469'	Quartz eyes									
475'	500'	Some structural features as above (415'5" - 450'). The rock appears to be more siliceous yet not in rhyolitic range. (dacite?)									
	476'4"	Bedding 130 - 46° to C.A. Sulphides 3%									
480'9"	483'11"	Ground core	78		480'	485'	5'				



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

72 - 13

HOLE NO. _____

SHEET NO. _____

5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	%
					FROM	TO	TOTAL					
489'5"	491'8"	Siliceous breccia (cataclastic), individual fragments well fractured. Sulphides predominantly pyrite.	79		485'	490'	5'	Ni 0.01	Cu 0.01			Zn 0.01
491'8"	500'	Ground core										
500'	525'	Altered zone: Rocks consist of basalt (which are essentially chlorite) to massive talc										
504'	506'	Section containing massive sulphides, predominantly pyrite.										
525'	549'	Massive talc: In some instances reduced to mud (very soft)										
	533'6"	Hematite stain										
	539'1"	Pyrite										
542'5"	544'	Ground section										
545'	546'2"	Ground section										
549'	593'	Altered equivalents of what once were probably lamprophyre and peridotite. Now they are essentially chlorite or talc minerals respectively.										
555'	562'	Lamprophyre										
562'	593'	Peridotite										
		END OF HOLE										

