



32D04SW0354 29 BOSTON

010

Diamond Drilling

Township: OF BOSTON

Report No: 29

Work performed by: MARSHALL BOSTON IRON MINES

Claim No	Hole No	Footage	Date	Note
L 56468	5	205'	JAN/72	(1)
	6	521'	JAN/72	(1)
	7	217'	JAN/72	(1)
	8	400'	JAN/72	(1)
	9	241'	FEB/72	(1)
	10	354'	FEB/72	(1)
	11	300'	JAN/72	(1)

Notes: (1) 242/72

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72 - 5 LENGTH 205'
 LOCATION South Grid L.23+45E, 55' North
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 0° DIP -40°
 STARTED Jan. 6/72 FINISHED Jan. 7/72

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
Collar	-40°				
205'	-42°				

HOLE NO. 72-5 SHEET NO. 1

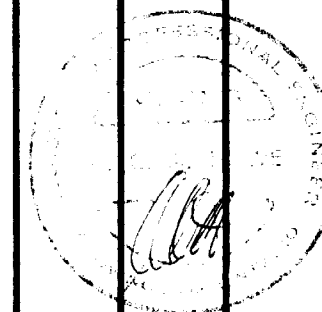
REMARKS _____

LOGGED BY P. Huxhold

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0'	12'2"	Casing										
12'2"	21'	Diorite - dark green, fine grained olivine-hornblende rich rock; olivine = 50%, hornblende = 40%										
12'2"	18'	Disseminated euhedral pyrite crystals (up to 0.1" diam.) = 1 - 2 %										
21'	26'	Gradational contact (contact volcanic) - dark green-black aphanitic rock, tuffaceous, feldspar-qtz. = 1%										
26'	66'10"	Basic volcanic - dark green, fine-grained olivine rich flow with disseminated pyrite and magnetite crystals and pyrite blebs.										
39'7"	39'10"	Feldspathic stringer) = 30° to C.A.										
44'	44'11"	Feldspathic stringers)										
45'	66'10"	Increase in magnetite dissemination to about 5% average.										
66'10"	73' 6"	Tuffaceous basic volcanic - olivine phenocryst (5-8%) and biotite (20%) plates in olivine, hornblende, pyroxene, biotite groundmass.										
68'9"	68'10"	Feldspathic stringer, 35° to C.A.										
69'1"	69' 2"	Feldspathic stringer, 35° to C.A.										
70'9"	70'10"	Feldspathic stringer, 30° to C.A.										
73'6"	77' 8"	Basic volcanic - dark green fine-grained rock with disseminated pyrite blebs and euhedral crystals (0.05")-4-6% and finely disseminated magnetite -1-2%										
77'8"	86'10"	Syenite dyke - fine grained (0.01 in.) pink-dark green crystalline rock in which potash feldspar = 60% and ferro-magnesiums = 40%										

EM. 6-1188

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 5

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
78'10"	79'8"	Diabase dyke with disseminated pyrite (1%)									
86'10"	205'	Basic Volcanic - fine grained dark green crystalline rock with tuffaceous zones, banded phases and zones of changing grain size.									
86'10"	89'4"	Olivine-pyroxene phase; fibrous acicular pyroxene needles (up to 0.5" long) in dark grain groundmass, aplitic texture, disseminated pyrite 1 - 2%									
89' 4"	92' 4"	Tuffaceous zone - contact 90° to C.A., no sulphide mineralization.									
92' 4"	98' 8"	Basic, dark green fine-grained aphanitic zone with disseminated pyrite (1 - 2%) blebs and euhedral crystals and magnetite, finely disseminated (5%).									
98' 4"	98' 6"	Feldspathic dyke with finely-disseminated pyrite 1%.									
98' 8"	205"	Contact volcanic zone - altered, exhibiting banding, schistosity, some evidence of epidotization, chloritization with disseminated pyrite cubes and blebs 0.5 - 3%.									
124'	139'	Feldspathic stringers									
126'9"	126'11"	Pyrite blebs - 5%									
118'10"	118'11"	Quartz vein -20° to C.A.									
134'9"	205'	Decrease to amt. disseminated pyrite (less 1%)									
202'3"	202'4"	Pyrite, 10 - 15%									
	205	END OF HOLE									

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DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72 - 6 LENGTH 521'
 LOCATION South Grid. L8E, 1+50S
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 0° DIP -40°N
 STARTED Jan.10/72 FINISHED Jan.13/72

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
Collar	-40°	N			
521'	-40°	N			

HOLE NO. 72-6 SHEET NO. 1

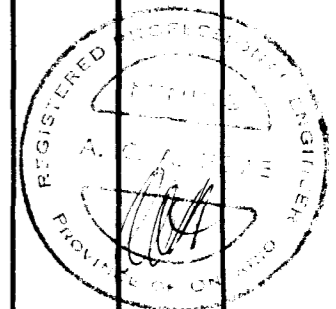
REMARKS _____

LOGGED BY P. Huxhold

EM. 6-1168

LANGRIDGE LIMITED,

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
		FROM			TO	TOTAL				
0	8' 2"	Casing								
8' 2"	22' 8"	Fine-grained aplitic rock - dacite. Dark grey rock exhibiting banding of alternating felsic and mafic minerals.								
8' 2"	13' 3"	Disseminated pyrite - up to 1%								
11' 5"	12' 4"	Disseminated pyrrhotite - up to 1%								
11' 6"	13' 3"	Chlorite - epidote - hornblende schist band (zone) 11'6" - 4° to C.A. 13'3" - indistinguishable contact, disseminated pyrite blebs, crystals (1%)								
16' 7"	16' 9"	Chlorite - epidote - hornblende band.								
16' 11"	16' 12"	Pyrite disseminated; 5 - 7%								
22' 8"	22' 11"	Gradational contact								
22' 11"	28' 5"	Felsite dyke (garnet-nepheline-syenite) - euhedral to subeuhedral (garnet) in aqua-marine matrix.								
28' 5"	146' 8"	Dacite - dark grey aphanitic rock with buff coloured curvilinear banding, with disseminated pyrite, pyrrhotite and sphalerite, tuffaceous in places.								
29' 3"	29' 4"	Olivine dyke, 30° to C.A.								
32' 8"	33' 0"	Felsite dyke.								
32' 2"	32' 3"	Pyrite, pyrrhotite blebs and euhedral crystals 10 - 15%.								



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 6

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					Fe.	
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Zn	Ni	Pb ^{TON}	Cu ^{TON}		Ag
					FROM	TO						
44'10"	45'2"	Felsite dyke (syenite); 20° to C.A.	27		52'6"	57'6"	5'	0.02	Tr			0.03
52'6"	57'6"	Sample (sphalerite)										
80'0"	95'0"	Very fine-grained dacite, sphalerite staining	28		80	85	5'	0.01	Tr			Nil
			29		85	90	5'	0.03	.01			.03
			30		90	95	5'	0.02	None			.01
101'4"	102'3"	Felsite dyke										
128'1"	128'2"	Felsite dyke - bleb of galena										
128'9"	133'9"	Sphalerite staining	31		128'9"	133'9"	5'	.01	None			Nil
146'8"	151'	Medium-grained zone dacitic rock; disseminated pyrite, pyrrhotite										
151'	182'	Fine-grained dacitic rock										
182'	207'	Graphitic zone, black, fine-grained soft rock, slightly magnetic with disseminated pyrite, chalcopyrite, galena, sphalerite	32		182'6"	190'	7½'	.47	.01	.05		
			34		190'	195'	5'	.23	.01	.06		.02
			35		195'	200'	5'	.20	.01	.03		
207	267'3"	Dacite - as before, tuffaceous in places, disseminated pyrite, pyrrhotite, to 1%.										
228'0	228'2"	Pyrite bleb, 2" in diameter, ellipsoidal shape										
238'8"	238'10"	Pyrrhotite stringers										
239'0"	239'1"	Pyrrhotite stringers										
241'1"	246'4"	Zone of pyrrhotite stringers, 2 - 3%										
249'8"	250'5"	Quartzite dyke, disseminated pyrite.										
262'3"	267'3"	Dacite - porphyry (micaceous) biotite, pyroxene phenocrysts in dacitic matrix, dark green, medium to fine-grained rock, with pyrrhotite stringers and pyrite disseminations 1 - 2%										
266'5"		Pyrite bleb - 0.5" in length										
267'3"	273'1"	Syenite: contact 10° to C.A.; green-rose coloured rock, schistose in places, biotite, hornblende, feldspar, disseminated pyrite 1 - 2% pyrrhotite stringers										

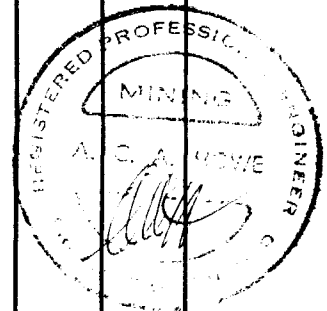
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 6

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO				
273'1"	372'9"	Dacite - dark green fine-grained hard rock with siliceous phases and with disseminated pyrite.								
274'4"	274'5"	Felsite dyke								
281'1"		Pyrrhotite blebs.								
313'4"	314'4"	Felsitic zone.								
333'3"	349'6"	Mafic (graphitic appearance) zone, black aphanitic rock.								
354'		Sphalerite stain in quartz - feldspathic fragments.								
363'4"	363'5"	Pyrrhotite stringers - 5%								
350'	361'	Disseminated magnetite blebs - 1%								
367'6"	368'9"	Dacite - porphyry - felsitic phase.								
372'9"	378'4"	Biotite - hornblende rich gabbroic rock, biotite - hornblende phenocrysts in green matrix, no sulphide mineralization.								
378'4"	407'407'	Altered zone (soapstone) - soap dark green zone, fine grained - disseminated pyrite blebs.								
407'	424'6"	Aphanitic, black phase - dacitic composition, soft, disseminated pyrite blebs (to 1%), magnetite 1%.								
424'6"	521	Dacite - gabbroic rock, dark green, fine-grained in places, tuffaceous, graphitic, porphyritic, disseminated pyrite 0.3%								
461'	463'10"	Syenite dyke - vuggy, disseminated pyrite and chalcopyrite crystals 1%.								
465'10"	467'	Syenite - porphyry dyke - disseminated pyrite - 0.5%, specular hematite blebs.								
471	471'3"	Syenite dyke, disseminated pyrite /0.5%								



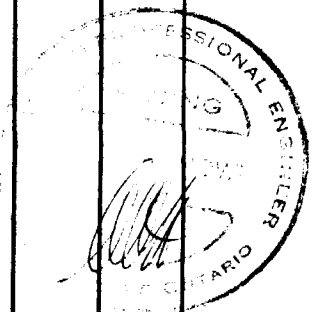
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 6

SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON	
					FROM	TO	TOTAL					
473'6"	477'3"	Hematitic zone - massive specular hematite blebs in rhyolitic rock.	37		473'6	477'	3½'	2.74				
477'3"	477'10"	Feldspar-olivine banding; hematite stringers.										
482'7"	483'	Felsitic dyke.										
485'8"	487'	Pyrite - massive - 10%										
506'2"	506'3"	Pyrite stringer - 1" wide										
511'9"	513'5"	Porphyritic phase (dacite).	36		512'9	514'	2'3"	.01				
513'5"	521'	Dacite - as before.										
		END OF HOLE										



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall-Boston Iron Mines Limited
 HOLE NO. 72 - 7 LENGTH 217'
 LOCATION LC, 50'S; South Grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 0° DIP -40°N
 STARTED Jan. 20, 1972 FINISHED Jan. 22, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
Collar	-40°				
215'	-43°				

HOLE NO. 72-7 SHEET NO. 1

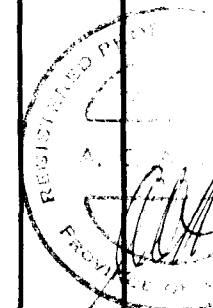
REMARKS Hole prematurely stopped at 217' after one cementing attempt due to the blocky nature of the peridotite.

LOGGED BY P. Huxhold

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	22'	Casing										
22'	86'5"	Dacite; dark grey-black aphanitic, hard rock with siliceous zones, porphyritic in places, some banding; disseminated pyrite crystals & blebs, 1 - 2%; minor disseminated chalcopyrite, minor sphalerite staining around some of the pyrite; the phenocrysts in the porphyritic zone appear to be hornblende.										
36'4"	36'8"	Olivine dyke; 36'4" - 60° to C.A. 36'8" - 30° to C.A. Minor stringers of pyrite.										
36'5"	125'0"	Quartz-feldspar porphyry; dioritic composition, dark grey-green hard rock with biotite, quartz, feldspar, minor hornblende phenocrysts in dioritic groundmass. Disseminated pyrite cubes and blebs approx. 1 - 2%. Minor chalcopyrite disseminations.										
		100' - 106'2" Magnetite blebs (pseudomorphic), disseminated 2 - 3%										
125'	129'6"	Biotite-hornblende gneiss intrusions with finely disseminated pyrite (1 - 2%); contact rt. angle to C.A. Minor disseminated chalcopyrite.										
129'6"	134'1"	Rhyolite; buff-grey, aphanitic, hard, banded (0.25" diam.) with very finely disseminated pyrite (1%). 129'6" - contact 40° to C.A. 134'1" - contact 90° to C.A.										

EM. 6-1168

LANGRIDGE LIMITED.



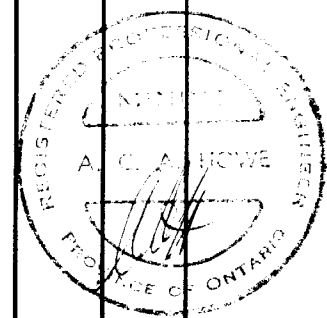
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall-Boston Iron Mines Limited

HOLE NO. 72 - 7

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
134'1"	197'5"	Dacite; buff grey-green-black, aphanitic, hard with some buff grey bandings, finely disseminated pyrite (\sphericalangle 1%), slightly magnetic, siliceous zones, non-magnetic zones, porphyritic in places with felsic phenocrysts in dacitic groundmass.									
175'	179'6"	Pyrite blebs and stringers (5%) and chalcopyrite blebs (0.2%) in calcareous zone.									
197'5"	204'	Quartz-feldspar porphyry; quartz, feldspar phenocrysts (minor hornblende phenocrysts), finely disseminated pyrite (\sphericalangle 1%).									
204'	217'	Peridotite, altered, soft (soapstone), greasy dark-green; disseminated pyrite, slightly graphitic.									
		END OF HOLE									



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72-8 LENGTH 400'
 LOCATION L2W, 300'S; South Grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 0° DIP -40°N
 STARTED Jan. 16, 1972 FINISHED Jan. 18, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
Collar	-40°N				
217'	-40°N				
400'	-40°N				

HOLE NO. 72-8 SHEET NO. 1

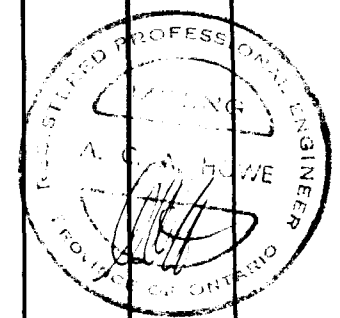
REMARKS _____

LOGGED BY P. Huxhold

EM. 6-1168

LANGRIDGE LIMITED.

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	10'	Casing									
10'	23'3"	Dacite; buff grey - dark green, fine-grained, banded with felsic mineralization, banding usually curvilinear, carbonaceous in places, disseminated pyrite (∠0.05%).									
23'3"	31'4"	Dacite porphyry; hornblende phenocrysts and olivine pseudomorphs in grey groundmass, minor carbonaceous stringers, finely disseminated pyrite ∠0.05%.									
31'4"	36'7"	Gradation to rhyolite.									
36'7"	41'	Rhyolite; light red-green, indurated, porphyritic in places, quartz, feldspar stringers.									
41'	49'	Dacite porphyry; banded, altered, carbonaceous in places, felsic phenocrysts in dark green matrix, disseminated pyrite ∠0.05%.									
49'	54'2"	Rhyolite; as before.									
54'2"	162'9"	Dacite; buff grey - dark green, fine-grained, banded, porphyritic in places with hornblende phenocrysts, disseminated pyrite blebs and cubes (∠0.5%).									
	92'1" - 92'3"	Massive pyrite 30%									
	98'6" - 100'	Ankerite dykes.									
	118'6" - 119'	Pyrite blebs 5%									



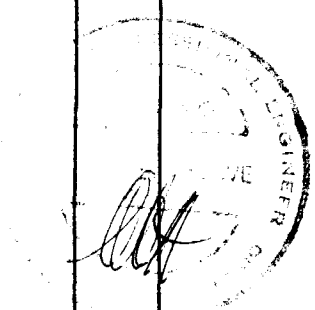
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 8

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
162'9"	181'	Syenite-porphry; felsic phenocrysts in syenitic groundmass, disseminated pyrite 0.1%.									
181'	218'6"	Dacite-porphry; as before									
218'6"	226'8"	Quartzite with feldspathic and felsitic intrusions, disseminated pyrite approx. 1%.									
226'8"	299'	Dacite; silica rich, buff-grey-green, banded, aphanitic, disseminated pyrite 0.05%.									
		Feldspar dykes: 246'6" to 246'11" 248'6" to 249'8" 252'9" to 253'3" 254'2" to 254'4"									
		269' to 269'2" Pyrite blebs 5% 292'6" to 294'2" Pyrrhotite stringers 1 - 2%									
299'	304'4"	Diabase dyke - disseminated graphite (0.5%), minor biotite.									
304'4"	312'5"	Andesite; lightly banded, cherty cleavage, disseminated pyrite, pyrrhotite, hemaniferous in places, dark-green-gray, feldspathic zones.									
312'5"	337'	Dacite; banded in places, felsite dykes, minor disseminated pyrite, pyrrhotite.									
337'	340'	Gabbro; disseminated pyrite, pyrrhotite stringers.									
340'	348'8"	Diabase dyke; disseminated pyrite blebs & cubes, 1 - 2%.									
348'8"	400'	Gabbro altering into a biotite-hornblende gneiss, with quartz-feldspar dykes, disseminated pyrite, chalcopyrite, pyrrhotite \angle 0.5%.									
		395' - 400' Graphitic zone, diabasic composition, disseminated pyrite (0.5%)									
		END OF HOLE									



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72 - 9 LENGTH 241'
 LOCATION L6E, 9 + 00N
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 0° DIP -40°
 STARTED Jan. 25, 1972 FINISHED Jan. 26, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
Collar	-40°	N			
200'	-45°	N			

HOLE NO. 72-9 SHEET NO. 1

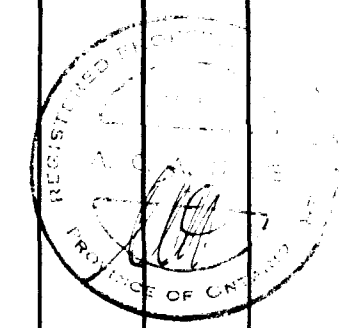
REMARKS _____

LOGGED BY P. Huxhold

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	%	%	OZ/TON	OZ/TON
0	12	Casing									
12	69	Dacite; buff grey - dark grey, aphaneritic, hard, finely banded, porphyritic in places, ferromagnesium phenocrysts (0.05"), finely disseminated magnetite 1 - 3%, gneissic appearance, tuffaceous zones. Chalcopryrite, pyrite blebs in places. Minor feldspathic intrusions in places. Minor calcareous intrusions. Minor siliceous intrusions. Minor banded-iron stringers towards contact with B-iron formation 53'5" - 10" pyrite stringers 5 - 7%, 150° to C.A.									
69	105'6"	Banded-iron formation (approx. 20%); bands of massive magnetite range in widths from 0.05" to 1.5" and cut core axis at 0° to 110°, magnetite bands vary in diameter; wavy appearance separated by dacite, cut by minor feldspathic, chloride-epidote stringers, minor chalco & pyrite blebs in places, disseminated magnetic.	69		70'	80'	10'	21.16			
			70		80'	90'	10'	21.18			
			71		90'	100'	10'	24.07			
			72		100'	106'	6'	18.27			
105'6"	164'6"	Dacite; as above, porphyritic, feldspar phenocrysts (0.01") in buff-grey - dark gray groundmass, siliceous zones; minor disseminated chalco blebs, slightly magnetic, minor quartz stringers (chloride)									
133	164'6"	Dacite - porphyry - epidote, feldspatic dyke intrusions, pyrite blebs & cubes in dykes, 1 - 2%									

EM. 6-1168

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-9 SHEET NO. 2

REMARKS _____

LOGGED BY P. Huxhold

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
164'6"	241'	Basalt; dark grey, hard, aphaneritic (finer grained than previous rock); minor quartz dykes (0.5" diam.) with chalcopyrite blebs (0.2%), slightly magnetic, grades into a hornblende-biotite gneiss. Few minor pyrite stringers.										
		END OF HOLE										

EM, 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72 - 10 LENGTH 354'
 LOCATION 13 + 90 N. L4E
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 185° DIP -40°S
 STARTED Feb. 3, 1972 FINISHED Feb. 5, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
354'	35°				

HOLE NO. 72 - 10 SHEET NO. 1

REMARKS _____

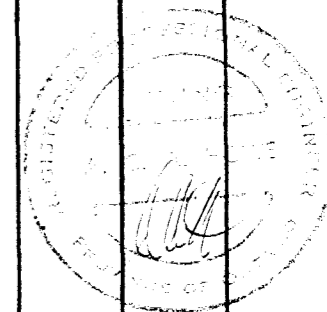
To test a known iron zone

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON		
		FROM			TO	TOTAL						
0	11'	Casing										
11'	23'4"	Basalt: rock is dark green in colour; the rock has undergone metamorphism to the chlorite stage. Chlorite phenocrysts 3% contained in a matrix of chlorite minerals.										
23'4"	25'	grey mafic volcanic; fine grained, minerals / 1 mm contact at 52° to C.A.										
25'	45'	Basalt: heavily altered to dark green black chlorite										
45'	50'	Mixed Zone: containing patches of magnetite, basalt and cherty material. The iron appears to occur both with the basalt and as banded iron formation.										
	48'5"	pyrite (euhedral to anhedral) banded with magnetite 44° to C.A.										
50'	61'6"	Basalt: light to dark green black colour. The rock has been predominately altered to chlorite. Minor pyroxenes / 5% Gram size 1 - 2 mm										

EM. 6-1168

LANGRIDGE LIMITED,



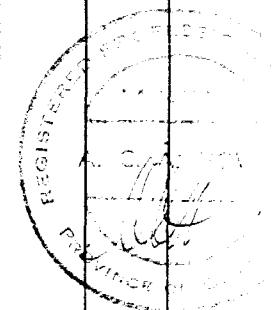
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 10

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			Fe ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
61'6"	70'5"	Trachyte: nepheline identifiable									
70'5"	75'	Breccia Zone: This zone contains the following- magnetite fragments 15% grey volcanic fragments 20% trachyte fragments 45% pyrite 5% - 10% The voids between fragments have been filled with talc minerals.	59		70'	80'	10'	17.65			
75'	125'	Lean Iron Formation: bands of magnetite separated by bands of non-magnetic grey white cherty material There is some development of iron bearing garnets between magnetite bands - iron approximately 40%, chert approximately 50%, subhedral to anhedral garnets approximately 10%	60		80	90	10	30.14			
			61		90	100	10	22.77			
82'5"		<u>banding</u> 20° to C.A.									
87'9"		<u>banding</u> 40° to C.A.	62		100	110	10	17.54			
114'		<u>banding</u> 20° to C.A.									
121'10"		<u>banding</u> 16° to C.A.	63		110	120	10	27.04			
103'9"	106'8"	<u>Basalt interjections</u>									
107'9"	108'6"	<u>Basalt interjections</u>									



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 10 SHEET NO. 3

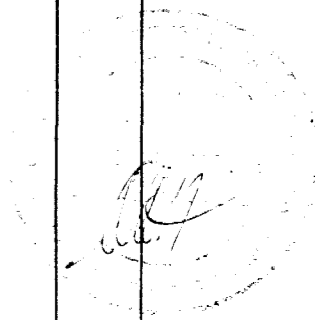
FOOTAGE		DESCRIPTION	SAMPLE			Fe ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
125	167'7"	Lean Iron Formation: Similar to that described above Magnetic bands 1/8 - 1.5" thick	64		120'	130'	10'	27.22			
	139'8"	banding 51° to C.A.	65		130'	140'	10'	29.23			
	141'6"	banding 42° to C.A.									
	148'5"	banding 40° to C.A.	66		140'	150'	10'	29.86			
	150'	small fold in core 20° to C.A. app. 25° to G.A.									
	156'1"	banding 45° to C.A.	67		150'	160'	10'	30.28			
156'1"	156'3"	numerous closed fractures occur that terminate at the magnetite	68		160'	167'7"	7'7"	30.54			
167'7"	200'	Basalt: green volcanic with grey white phenocrysts that vary in size from 1 - 2 mm to 1 cm. Approximately 5% of the rock mass is chloritized. Talc minerals occur on slip planes at 44° to C.A.									
200'	239'5"	Chlorite Schist: derived from a basaltic tuff									
239'5"	250'	Lean Iron Zone: banded magnetite 40% garnets 10% pyrite bands 1 - 2% minor carbonate cement / 1% cherty material 40 - 50%									
250'	292'	Chlorite Schist:									

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72-10 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
292'	330'	Andesitic Rock: light grey to grey black intermediate volcanic tuff anhedral to subhedral feldspar phenocrysts (2-5 mm) occur in the aphanitic (< 1 mm) flaky matrix. Chlorite minerals (alteration product) are present in the matrix. bedding 120% to C.A. granitic fillings occur along fractures. talc also present on shears								
325'5"	326'	Broken core, probable fault.								
330'6"	336'4"	Basalt: green colour; heavily altered to chlorite which is the main constituent								
336'4"	353'11"	Similar to above 292-330								
		END OF HOLE								



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72 - 11 LENGTH 300' Boston Township
 LOCATION 1 + 00N, L 10 + 00W
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -40N
 STARTED Jan.29, 1972 FINISHED Jan.31,1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72 - 11 SHEET NO. 1

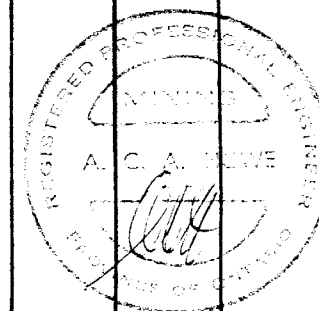
REMARKS _____

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	7'10"	Casing									
7'10"	40'	Rhyolitic rock: Hard, dense, aphanitic (<u>1</u> mm) purple-grey to grey-white siliceous rock.									
12'3"	13'	Minor quartz veinlets									
37'4"	37'6"	Basalt: Green colour, minerals include pyroxenes, epidote, olivine and calcic plagioclases. All contacts at 35° to C.A.									
38'7"	39'1"										
40'	43'4"	Intermediate zone: Consisting of alternating portions of previously described rock types. Pyrite occurs as smears on fractures at 60° to C.A. and in basaltic rocks 1 - 2%.									
43'4"	50'10"	Basalt: Dark green-black colour, the rock has been metamorphosed to the chloritic stage and is consequently soft. Appears to have been a tuff (clasts visible). Talc on slips 60° to C.A.									
50'10"	65'	Alteration zone: The rock varies in colour from lime green through to apple green. Carbonate minerals occur in fracture planes as veinlets and as fillings in brecciated sections. Talc also occurs on fracture planes.									
	54'	Blocky rock possible fault.									
60'	65'	The rock is somewhat siliceous and epidotized.									



DIAMOND DRILL RECORD

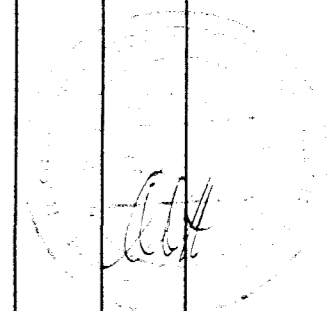
 NAME OF PROPERTY Marshall Boston Iron Mines Limited

72 - 11

HOLE NO. _____

 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
65'	75'	Basalt: Dark green colour, metamorphosed to chlorite facies. Scattered pyrite blebs and minor talc mineralization.						Fe.	Cu.		
75'	85'	Mixed rock type containing siliceous fragments in a green basaltic matrix. Pyrite blebs are scattered throughout, <u>1%</u>	74		75'	85'	10'	15.75	0.02		
	76'5"	Chalcopyrite									
	79'8"	Chalcopyrite									
		Minor amounts of iron occur through this section. Magnetite coarse.									
85'	98'8"	Hard banded rock (bands 52° to C.A.), colour varies from spotted brown-white to green. The rock is a fine-grained (1 mm grain size) siliceous sediment consisting predominantly of feldspar and quartz. No iron present in this section.	75		97'	100'	3'	18.27			
98'8"	150'	Banded iron formation: Iron bands occur at 60° and 29° to C.A. Pyrite blebs present. Iron rich sections are interjected by barren basalt at the following locations:	41		100'	110'	10'	25.65			
100'6"	100'10"	Olivine basalt									
106'9"	107'2"	Olivine basalt									
117'8"	118'4"	Olivine basalt	42		110'	120'	10'	21.23			
127'2"	129'7"	Basalt	43		120'	130'	10'	24.34			
130'	130'8"	Olivine basalt	44		130'	140'	10'	32.09			
141'8"	142'3"	Basalt	45		140'	150'	10'	27.87			



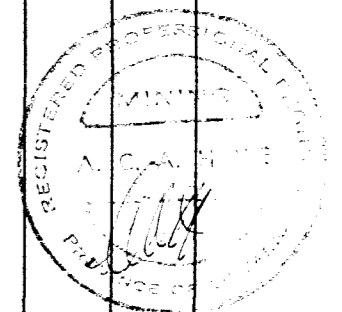
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 11

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
150'	200'	Banded iron formation:	46		150	160	10'	30.92				
150'	156'	Garnets occur through this section.										
	178'8"	Magnetite bands 42° to C.A.	47		160	170	10'	30.70				
179'	180'7"	Barren basalt interjection 32° to C.A. cuts off iron band. Mica rich.	48		170	180	10'	27.87				
184'5"	184'10"	Garnets occur through this section.	49		180	190	10'	23.42				
186'10"	190'	Barren basalt interjection (mica chlorite-biotite rich)										
196'	196'8"	" " " " " " " "	50		190	200	10'	30.36				
	197	Iron bands highly contorted into small drag fold, the curved axis is 118° to C.A.										
	197'2"	Iron bands 70° to C.A.										
200'	250'	Banded iron formation:										
202'5"	203'2"	Barren basalt										
207'8"	208'6"	Barren basalt	51		200	210	10'	29.07				
211'4"	211'7.5"	Barren basalt										
212'2.5	213'2"	Barren basalt	52		210	220	10'	30.68				
225'3"	225'6.5	Quartz vein										
	227'3"	Magnetite bands 52° to C.A.	53		220	230	10'	35.46				
232'4"	232'6"	Garnet zone										
	233'1"	Garnets										
235'1"	236'4"	Barren basalt	54		230	240	10'	30.38				
240'5.5	240'10"	Barren basalt										
	242'11"	Magnetite bands 160° to C.A.										



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 11

SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		(Banded iron formation) cont'd.									
245'4.5	245'8.5	Barren basalt	55		240	250	10'	28.67			
250'	270'9"	Banded iron formation:	56		250	260	10'	32.65			
270'9"	272'6"	Scattered pyrite, euhedral crystals 1%	57		260	271	11'	25.69			
270'9"	300'6"	Basalt: dark green colour									
		END OF HOLE									

