MARSHALL BOSTON IRON MINES LIMITED

P.O. BOX 637
KIRKLAND LAKE, ONTARIO

63.3094

November 14, 1971

THE HONOURABLE L. BERNIER,
MINISTER OF MINES,
PARLIAMENT BUILDINGS,
QUEENS PARK, TORONTO, ONTARIO.



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MARSHALL BOSTON IRON MINES LIMITED wish to make application for Exploration Assistance Agreement for the exploration of land in Boston Township, Larder Lake Mining Division. The company is continuing on a programme of work started in 1968 on four groups of claims in this area.

Group #1 ---	L77287	L7I475	L39083
	7I472	7I476	38693
	7I473	2I3495	78802
	7I474	213496	
Group #2 ---	L73I24	L74844	L72991
	73070	74842	72990
	73069	74843	72993
	73068	9I027	I0I539
	74845	73002	I04740
Group #3 ---	L56502	L56505	L56467
	56503	56506	56468
	56504	56507	
Group #4 ---	LI05398	L67650	L73003
	I05397	67335	265300
	65364	6I570	72987
	65363	72986	

All claims are owned or optioned by the company and are held in good standing according to the Ontario Department Of Mines regulations.

Previous to our present programme $295,504.93 was spent on surveys, surface prospecting and diamond drilling on some of the above claims. An expenditure of $159,579.23 was done diamond drilling on iron and base metal prospects for zinc, copper and lead.

MARSHALL BOSTON IRON MINES LIMITED

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KIRKLAND LAKE, ONTARIO

Our present programme is a continuation and expansion to our additional ground in the area after obtaining encouraging results on previous work. Also additional diamond drilling will be done to check areas of importance encountered in last years drilling on group #I. Several holes encountered zinc, copper and lead mineralization.

The work for Marshall Boston Iron Mines Limited has been done under the direction of L. G. Hobbs, consulting geologist, residing at 65 Westwood Lane, Thornhill, Ontario.

It is recommended that an expenditure of $37,000.00 be made on a diamond drilling programme to test prospects in zinc, copper and lead outlined in work done this past summer. Copies of proposed holes and depths are attached.

It is also recommended that an expenditure of $50,000.00 be made to test iron ore potential on the property. Additional magnetometer survey work and diamond drilling on present outlined magnetometer anomalies is recommended. Holes and locations are attached.

The company will also start a programme of line cutting followed by by magnetometer and E. M. surveys on a group of 22 claims in Boston Township held under option. This work is to test occurances of copper, silver and gold mineralization located by prospecting.

MARSHALL BOSTON IRON MINES LIMITED

P.O. BOX 697
KIRKLAND LAKE, ONTARIO

Claim numbers of this group are-

L72603	L72599	L8I990
I0I536	8I987	8I989
72598	8I988	8I99I
I0I537	7259I	836I3
I0I538	72596	8I992
72602	72593	8I994
7260I	836I4	8I993
72600		

All the above claims are in good standing according to the Ontario Department of Mines regulations.

The estimated cost of this programme is $4,500.00.

Linecuting -approximately I5 miles --	$I,300.00
Magnetometer and E. M. surveys --	$2,700.00
Supervision and expenses --	$ 500.00

The total expenditures for the complete programme is estimated at $9I,500.00.

A response to this presentation would be appreciated as soon as possible as we are anxious to carry on with this programme.

Yours very truly,

President,
Marshall Boston Iron Mines Ltd.

32D04SW0336 63.3094 BOSTON

DRILLING RECOMMENDATIONS - BASE METAL PROSPECTS

Consideration of the above factors has lead to the drilling proposals outlined below. Hole numbers given are for reference purposes only and do not indicate relative importance. All holes are at 40° dips.

North Grid:

Hole No. 1 (L72W, 9+60S) L = 530' ---Claim # 74843

A hole to test two conductors with geochemical confirmation, one of which is coincident with a magnetic anomaly. It is in a contact area of syenite and magnetite bearing syenite with volcanics.

Hole No. 2 (47W, 11+50S) L = 350' ---Claim 73003

A hole to test two conductors in a geochemically high area known to contain iron formation. The northerly conductor appears to dip south and lies just north of the known banded iron formation. It appears to lie north of the collar of hole 65-15.

Hole No. 3 (L32W, 6+90S) L = 200' --- Claim #72991

A hole to test the northerly of three conductors adjacent to the Long Lake fault, the northernmost of which is off the iron formation zone which lies to the south. It may be on a volcanic / syenite contact. Geochemical

results are poor on line 32W but strong in Cu and Zn on line 26W where probable extensions of the conductors are detected. The line 32W location was chosen as the stronger of the E.M. anomalies. Alternately, the hole could be drilled on line 26W.

Hole No. 4 (L22W, 14S) L = 330' --- Claim # 72990

A hole to test a strong E.M. conductor with an apparent north dip which may lie just south of and dip with the iron formation holes already drilled in that area. High Cu and Zn geochemical results confirm it as a drill target. It appears to be close to the south contact of the iron formation and may represent a base metal bearing sulphide zone. Shield Geophysics interprets this conductor as lying in a possible fault block near the Long Lake fault.

South Grid:

Hole No. 5 (3W, 2+50S) L = 700' ---Claims # 56505 and 56467

A hole to test an area of Radem crossovers with relatively high field strength readings lying within a lens of siliceous tuff. High Cu, Pb and Zn geochemical results were obtained near these crossovers and finely divided sphalerite (Zn) mineralization was uncovered by blasting a short distance to the east. The hole should also test the eastward extension of the 8E iron formation body and volcanic flow / siliceous tuff and siliceous tuff / peridotite contacts.

Hole No. 6 (L8E, 1+40S) L = 520' --- Claims # 56504 & 56468

A hole to test a pair of strong JEM anomalies lying on or near contacts of siliceous tuff with volcanic flow. Disseminations and streaks of pyrrhotite and pyrite sulphides are observable at surface. High copper and zinc geochemical

results are associated with these anomalies which lie close to an inferred fault zone as interpreted by Shield Geophysics.

Hole No. 7 (L16E, 6+70N) L = 200' --- Claim # 56468

A short hole to test a strong JEM anomaly near a diorite / volcanic flow contact and on an interpreted fault zone (Shield Geophysics). One medium strength Cu geochemical result was obtained.

Southwest Grid:

Hole No. 8 (L116W, 24+50S) L = 350' --- Claim # 74845

A hole to test a string of Radem anomalies lying on or near the Northwest Boston fault zone. Geochemically high Cu values are associated with the anomalies which do not appear to be related to iron formation.

Hole No. 9 (L80W, 47+00S) L = 525' --- Claim # 72987

A hole to test one of the strongest Radem anomalies obtained in addition to the iron formation southwest of Helent Lake. Cu and Zn geochemical anomalies are associated with this conductor which lies close to or on the iron formation contact.

Northeast Grid:

Hole No. 10 (4+20S, 9+30W) L = 290' -- Claims # 71478 & 71477

A hole to test the area between zones B and C where intrusive material of dioritic composition trends easterly toward the main zinc pit on B zone. Where exposed by blasting, this intrusive shows Cu and Zn mineralization, a grab sample of which ran 0.16% Cu and 1.49% Zn.

Hole No. 11 (4+25S, 7+00W) L = 180' --- Claim # 71477

A short hole under the main B zone zinc pit to test the possibility of west dipping mineralization in the zone.

The hole is angled north-easterly to intersect any easterly trending intrusive material or structural feature which may have paralleled the previous drill holes.

Hole No. 12 (L8N, 10+50E) L = 550' --- Claim #71475

A hole to test a series of Radem anomalies trending roughly parallel to F zone where they are geochemically confirmed. The hole would also further test F zone where it passes behind the collar of hole F2.

The complete drilling programme proposed above totals 4725 ft. It is recommended that in addition to this, consideration be given to a possible hole into D zone in the Northeast grid area. A thin section study by Dr. P. Price of alteration patterns shown in core from hole D2 rates the zone as promising with respect to its possible association with ore grade mineralization. The best location for such a hole has not yet been determined but is under study. It would probably be necessary to reserve funds for a hole of about 700 ft. if such a test is ultimately judged desirable.

Claim # 36693

An estimated $37,000.00 would be necessary for the complete drilling programme including the hole into D zone and supervision.

Respectfully submitted,

L.G. Hobbs

L.G. Hobbs, P. Eng.

REGISTERED PROFESSIONAL ENGINEER
L. G. HOBBS
PROVINCE OF ONTARIO

LGH/ec
Enc.

WORK RECOMMENDATIONS AND DISCUSSIONS IRON PROSPECTS

South Grid

The accompanying maps outline possible drill locations which could increase iron tonnages on the claims. Those shown on the South Grid concentrate on zones 8B and 8E and would serve to test widths and extensions on two of the largest known zones. Burke has estimated considerably more ore in zone 8E than the author so that proving increased widths or length in this area could significantly increase tonnage. In zone 8B two proposed holes cut both iron bands. Continuous ore between these bands would also significantly increase tonnage.

South West Grid

Probably the best chances of increasing tonnage by further work lie on the South West Grid. No drilling has yet been done on this grid but magnetic surveying in the summer of 1971 and exposures of iron formation indicate that tonnages of mineable widths may be available. In general the iron formation here appears to have greater

South Grid --- Claims# 56467 -- 56468 -- I04740

South West Grid --- Claims # 73003 --- I2987 --- 72986
73069 ---67560 ---73068
65363 ---65364 ---I05397
I05398

North Grid --- Claims # 72993 --- 72990 ---7299I
73002 --- 9I027

The above claims have iron occurances and are claims to be explored for iron ore potential.

continuous lengths though widths are apparently quite variable. The fact that the formations appear to be discontinuous, as outlined by the survey, is largely due to the wide line spacing (400'). Consequently any decision to drill should be preceded by a limited amount of fill-in magnetometer work.

In two locations adequate exposure exists to make possible tonnage estimates to mineable depths as calculated by D.K. Burke. These are:

L28W 34S Anomaly

An iron formation lies just to the north of this anomaly where exposures of widths up to a maximum of 160 ft. and over a length of about 300 ft. are observable. The formation appears to be cut off to the east but may continue south westerly under low ground. With slight extension to the south west an estimated 628,000 long tons of ore of unknown grade exists to open pit depths and, with further extension southwesterly through the magnetic anomaly, another 228,000 long tons may exist. Drilling would be required to test these estimates. It is noted that the ODM township map suggests the iron formation to be continuous westerly to the Long Lake fault, a further distance of 1300 ft.

L76W, 36S Anomaly

Exposures of iron formation on this anomaly are up to 105 ft. wide and extend, with slightly diminished width, eastward to Helent Lake and presumably under the lake. An estimated 360,000 tons is possibly available in open pit reserves with some extension beyond the exposures. The formation may be open to the east through Helent Lake but magnetic readings to the west indicate termination in that direction

3. A fold and therefore continuity appears to exist in the iron formation exposed at L56W, 45S and L60W,47S. This band apparently narrows both east and west of this structure but a mineable tonnage may exist on the fold. Detailed magnetometer work and at least one test hole on the fold would indicate the advisability of further work.

4. A hole to test the anomaly of L72W at 42S and 44S should be considered of widths farther east on this iron formation appear mineable.

North Grid

Approximately 900 feet of drilling would be required on the North Grid to confirm estimates of tonnage contained in this report. The locations are shown on an accompanying map and would serve to:

1. Check structure between holes 65-14 and 65-16. If main ore intersections in these holes are discontinuous tonnage would be decreased.

2. Holes at the east end of Zone G and at each end of Zone E would be required to confirm strike extensions.

This drilling is recommended as being of secondary importance at present. It would probably be more productive of tonnage to explore the recommended zones on the other grids.

CONCLUSIONS

It is recommended before any further drilling of the iron formation is done that a study of minimum tonnage requirements be made in order to obtain a contract for sale of the ore either to the Adams Mine or another outlet. Obviously if the possibility of outlining such a tonnage by means of the work suggested herein seems remote the company would be better advised to concentrate on other areas of interest both within the company's Boston Township holdings and elsewhere. At the present time the company's consultants are studying a low tonnage but apparently very efficient iron producing operation in Quebec with the purpose of evaluating the feasibility of a similar operation on the Marshall Boston deposits.

It should also be noted that when the study of all the survey results obtained during the present field season is completed, drilling recommendations for base metals will doubtless be made. In certain cases this may allow for modification of some of the hole locations contained herein in order to combine tests of potential base metal conductors and iron.

At present, and prior to those modifications and any additions, a total of about 7500 feet of drilling is recommended as a preliminary phase of iron exploration.

This would involve an estimated cost of about $50,000 including supervision. Intersection of ore widths and grade would of course require an additional financial outlay.

Respectfully submitted,

L. G. HOBBS

REGISTERED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO

L.G. Hobbs, B A Sc P Eng.

possibly due to faulting. The formation may extend about 1000 ft. through the lake to the south east bay where exposures of good grade iron formation are located. It is estimated that if a width of 100 ft. persists beneath the lake a further 1,200,000 long tons may be available by open pit. Magnetometer surveying and drilling would be required to prove this tonnage's presence. Helent Lake appears to be sufficiently elevated that drainage by destruction of the dams at the south east corner is a reasonable possibility.

Most other exposures of iron formation on this grid are narrower than the above mentioned. Several, though, may be continuous over lengths of over 1000 ft. and may upon drill testing exhibit greater widths than the exposures indicate. The following are in this category.

1. The string of anomalies running south easterly from the anomaly on L64W,25S to L44,38S exhibit iron formation exposures of up to 80 ft. in width. In its north west extremity up to 200 ft. of metamorphic type iron bearing material is visible but this appears to be exceptional. The anomalies are mainly continuous as would be proved by intermediate survey lines. Two or three holes across this string in the suggested locations would serve to test widths and to provide grade data.

2. The anomaly centered at 54W,40S has only a narrow width of iron formation exposed but may be continuous with the Helent Lake zone. A single hole across its centre is recommended.

Marshall Boston Iron Mines Limited

Schedule 2: Lands covered by this agreement

Boston Township: 67 mining claims in five groups, owned or optioned by the company.

Group #1 --	L77287	L71475	L39083
	71472	71476	36693
	71473	213495	78802
	71474	213496	
Group #2 --	L73124	L74844	L72991
	73070	74842	72990
	73069	74843	72993
	73068	91027	101539
	74845	73002	104740
Group #3 --	L56502	L56505	L56467
	56503	56506	56468
	56504	56507	
Group #4 --	L105398	L67650	L73003
	105397	67335	265300
	65364	61570	72987
	65363	72986	
Group #5 --	L72603	L72599	L81990
	101536	81987	81989
	72598	81988	81991
	101537	72591	83613
	101538	72596	81992
	72602	72593	81994
	72601	83614	81993
	72600		

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 22 LENGTH 241'

LOCATION 116 W 24 + 50 S North Grid

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH 196° DIP -45°

STARTED April 29, 1972 FINISHED May 1, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-22 SHEET NO. 1

REMARKS Casing left in hole.
No significant mineralization
No samples taken

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	59'	Casing									
59'	150'	Peridotite - blue grey rock type, magnetic, compact, dense fine grained / mm. Minor 1% disseminated pyrite. Mineralogy consists of pale green white sugary textured mineral (olivine) 95% in a green black matrix. Talc minerals occur on fracture planes; minor muscovite / 2% occurs spotted in rock. 63' - epidotized section, pyrite 66'6" - 70' - altered porphyritic flow (now micas and epidote) 77'6" - 79'6" - pyroxenite band 125' - 125'7" - broken section 133'4" - talc with pyrite smears on fracture 10° to core axis 139'2" - 141'7" - chloritized (mud) broken section, probable faulting.									
150'	200'	Rock type as above, blue grey colour, magnetic 171' - 172' - altered section consisting of dark brown coloured micas, calcite and pale green carbonate banded at 35° to core axis. 179' - 180'7" - altered section consisting of epidote 75%, calcite and dark brown mica. 187'5" - 191'3" - altered section, granitic, upper and lower contacts close on chloritic schist. 190'7" - pyroxene band 56° to core axis.									

EM. 6-1168

LANGRIDGE LIMITED,

...LL RECORD

Marshall Boston Iron Mines Limited

... - 22 LENGTH

...ATION

LATITUDE DEPARTURE

ELEVATION AZIMUTH DIP

STARTED FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-22 SHEET NO. 2

REMARKS

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		150' to 200' continued										
		196'5" - 197'0" - section containing brown mica schist and epidotized band (pale green), calcite and dull blue green carbonate (probable calcite), epidotized bands 20° to core axis. Euhedral pyrite ∠ 1% present in epidotized bands. 198'2" - pyrite cubes on carbonated fracture, 5° to core axis.										
200'	241'	Rock type as above 150' to 200', blue grey colour, magnetic.										
		211' - 212'4" - altered schistose, micaceous section										
		226' - 230' - chloritized, schistose, micaceous section										
241'		END OF HOLE										

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
HOLE NO. 72 - 23 LENGTH 150'
LOCATION North Grid 104 W 5 * 006 N
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 002° DIP -45°
STARTED May 3, 1972 FINISHED May 4, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-23 SHEET NO. 1
REMARKS One casing broke in this hole at 22'.

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	45'	Casing										
45'	55'6"	Andesitic rock type, grey green colour on cored surface, grey black on fresh. Mineralogy consists of: Feldspar - 40% to 50%; Mafics: Chlorite pyroxene - 50% to 60%; minor pyrite / 1%. Grain size 1 mm. Hardness of rock - approximately 3. Rock is slightly schistose 50° to core axis. Syenite inclusions and ghost clasts present.										
55'6"	65'	Rock consists of dramatically alternating bands of micas and pale blue green talc (2mm - 1cm wide). The micas present have a green black colour (chlorite). Bands are oriented 75° to core axis and the core frequently broken parallel to the banding. Carbonates present in portions of the rock.										
65'	73'5"	Schistose carbonated rock, dark green in colour. Mineralogy consists of: Micas - 65%; Light minerals (carbonates) - 15%; Greenish white epidote - 20%; Schistosity 123° to core axis, 117° to core axis.										
73'5"	76'6"	As above - 55'6" to 65'.										

N. Brewster

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. 72-23 SHEET NO. 2

REMARKS _____

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
76'6"	80'	Grey white rock type. Consisting of chlorite 15% - 20%; grey white feldspar 75%; garnet / 1%; pyrite / 1%; epidote. The epidote is present in stringers and disseminations. Some of the feldspars are altered to a brown white mineral, grain size 1 - 3 mm.									
80'	81'11"	Transition section, quartz veins visible, specks of chalco - pyrite / 1% associated with the quartz.									
81'11"	93'5"	As above - 55'6" to 65'									
93'5"	97'5"	As above - 65' to 73'5"									
97'5"	119'	As above - 55'6" to 65'. Green chlorite is the dominant mineral, the rock is very soft, almost mud.									
119'	135'	Similar to 65' to 73'5". Gneissic rock, grey green in colour, containing grey feldspars, chlorite and epidote of varying amounts, depending on the section observed. Feldspar: 40% to 60%; chlorite: 40% to 60%; pyrite: / 1%; magnetite: / 1%. The feldspars and chlorite form crudely alternating layers. Gneissosity 35° to core axis.									

N. Brewster

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. 72-23 SHEET NO. 3

REMARKS _____

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
135'	143'4"	Transition zone, somewhat contorted and schistose, the section has been silicified and epidotized. Syenite injections present. 135'6" to 136'3" consists of magnetite bands ; subrotated feldspathic clast visible, chloritic inclusions and associated cherty material highly contoured. ∠ 1% pyrite.									
143'4"	150'	Syenite. Contact between transition rock and syenite 60° to core axis; euhedral pyrite 1%. END OF HOLE 150'									

EM. 6-1168

LANGRIDGE LIMITED,

N. Brewster

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 24 LENGTH 250'

LOCATION L 88 W 34 + 20 S Southwest Grid

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH 004° DIP -45°

STARTED May 7, 1972 FINISHED May 9, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-24 SHEET NO. 1

REMARKS No significant mineralization in this hole.

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	3'7"	Casing										
3'7"	13'7"	Grey green siliceous rock, dense, fine grained (1 mm) mineralogy consists of: grey feldspar; epidotized feldspar; micas (biotite). The rock possesses a flaky texture. Hematite present along fracture planes.										
13'7"	50'6"	Green mafic volcanic (andesite) porphyry. Mineralogy consists of: white feldspar 40%; epidotized feldspar 40% and chlorite 20%. Grain size 1 - 3 mm. Quartz and calcite bearing fractures cut the rock.										
50'6"	70'	Schistose rock, composed of alternating bands of chlorite mica and a blue green feldspathic material. The alternating bands of material are somewhat contorted and display various orientations to the core axis. 55' - 60' consists of apple green epidote and blebs of quartz with minor carbonate. 60'2" Bands parallel to core axis 61'1" Bands 20° to core axis 64' Bands parallel to core axis 65'7" Band 10° to core axis										
70'	80'	Rock similar to 13'7" - 50'. Predominant green colour, composed of grey white feldspar, epidotized feldspar and chlorite. Garnets / 1%. Also present are bands from which chlorite has been segregated consisting only of epidote and grey white feldspar.										

EM. 6-1168

LANGRIDGE LIMITED.

M. Brewster

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. 72-24 SHEET NO. 2

REMARKS _____

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
80'	124'3"	Rock consists of chlorite, grey white feldspar and white alteration products.										
		Mineral / % / Grain Size: Feldspar 60 5mm; Chlorite 40 3mm										
		Epidote which is absent in the matrix occurs as bands.										
124'3"	127'3"	Dense grey fine grained (/ 1mm) siliceous looking rock; epidote / 5%; lower contact 45° to core axis.										
127'3"	150'	Similar to section 80' - 124'3". Chlorite composes 75% of rock; pyrite / 1%; blue white material / 1% (quartz).										
150'	167'8"	Similar to 124'3" - 127'3"										
167'8"	215'11"	Siliceous banded rock varying in colour from grey, grey white, to grey green, depending on the arrangement of bands.										
		175' - 185' consists predominantly of siliceous quartzose material; bands 35° to core axis										
		185' - 215'11" composed of alternating bands of quartzose material and chlorite. Pyrite / 1% present along the bedding 46° to core axis.										
		187'3" clasts visible in the bedding										
		187'8" bands offset (2mm) by fractures 15° to core axis.										
		199'4" - 215'11" occasional bands of magnetite occur throughout this section, amounting to approximately 7%. Interlayered with quartzose and chloritic bands.										

EM. 6-1168

LANGRIDGE LIMITED.

N. Brewster

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

CLAIM NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-24 SHEET NO. 3

REMARKS _____

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
215'11"	224'3"	As above, 13'7" - 50'6". Rock slightly gneissic. 217'7" - 218'5" pyrite / 1% 218'5" - 219' garnet ferous section.									
224'3"	225'3"	Syenite									
225'3"	227'	Mixed rock containing syenitic and andesitic sections.									
227'	242'4"	Banded rock containing alternating bands of quartzose, iron approximately 15% 232'3" iron band 45° to core axis.									
242'4"	250'	Gneissic andesitic rock, dark green black colour. 243'8" - 244'1" silicified, garnet ferous epidotized section.									
		END OF HOLE 250'									

EM. 6-1168

LANGRIDGE LIMITED,

N. Brewster

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72-25 LENGTH 370'6"

LOCATION North Grid, 36' W L42 W 9+90 S

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH 140° DIP -45°

STARTED July 31, 1972 FINISHED August 3, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°				
150	-45°				
314	-43°				

HOLE NO. 72-25 SHEET NO. 1

REMARKS Hole designed to undercut previous zinc zone at 200'
Some mineralization, Pb, Zn, Cu obtained

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	10'	CASING										
10'	12'8"	SYENITE: First two feet heavily epidotized, magnetite mineralization 15%										
12'8"	14'9"	GREENSTONE: Gabbroic. Mineralogy consists of : Garnet 2 - 3% Magnetite 5-10% Feldspar 5% Mafics (mica, pyroxene) 75% Some of the feldspar has been epidotized.										
14'9"	17'8"	SYENITE: Pink 15'5" - 15'10" Band of mafic rock described above										
17'8"	20'	SYENITE: The syenite grades in to a more basic type consisting of feldspar, pyroxene and alteration equivalent 30% garnet and magnetite.										
20'	27'6"	AS DESCRIBED ABOVE 12'8" - 14'9"										
27'6"	28'4"	FELDSPAR PORPHRY: enequigranular, crystalline, non-granitic texture. Grey white colour.										
28'4"	35'2"	TUFFACEOUS: Feldspathic quartzose mineralogy, fine grained < 1 mm epidotized. Pyrite cubes visible 1 - 2%.										

EM. 6-1168

LANGRIDGE LIMITED.

N. Brewster

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. 72-25 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
35'2"	40'6"	PYROXENE SYENITE: Mineralogy consists of: Feldspar Pyroxene Grain size 4 mm Zoning is visible in the feldspars, lower contact is distinct.										
40'6"	41'8"	AS DESCRIBED 12'6" - 14'9"										
41'8"	49'	AS DESCRIBED 28'4" - 35'2"										
49'	50'5"	AS DESCRIBED 12'6" - 14'9"										
50'5"	70'	IRON SECTION: Feldspathic tuffaceous section banded with mafic section described below- Section 60 - 65 : Mafic section dark green black in colour, pyroxene plus light green mineral (calcic feldspar) from the matrix 75% white feldspar 2% Magnetite 10-15% Pyrite 5% The mafic section has the higher iron content.										
70'	86'3"	TUFFACEOUS: Hard quartzose fine grained rock, portions of the section are dense noncrystalline and posess a lime green colour. One section, 73'-74'7", contains more mafic minerals than remainder.of the section. Pyrite 1-2% Garnet / 1%										

EM. 6-1168

LANGRIDGE LIMITED.

M-Brewster

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

CLAIM NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-25 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
86'3"	106'	IRON SECTION: This section is similar to 50'5" - 70' in that it contains both the more magnetic mafic rock type 86'3" - 89'4" 91' - 93'10" 102'6" - 104' and the less magnetic feldspathic sections which exhibit a gnessoid character (94'3") i.e. parallelism of light and dark minerals segregated. 93'10" - 94' Syenite vein 101'6" Pyrite 103'3" - 103'10" Pyrite through this portion									
106'	115'	MAFIC SECTION: Soft micaceous (biotite) pyroxene, talcose section. 114'2" - 114'8" inclusion visible									
115'	133'	SYENITE: Pink, mineralogy consists of: Feldspars 90% Mafics 5 - 10% (pyroxene) The top and bottom contacts are sharply defined, gradational mafic change occurs toward the lower portion of the syenite.									
133'	144'	MAFIC SECTION as above, green in colour, magnetite present. 136'3" - 137'10" Micaceous soft section.									
144'	145'	SYENITE									

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

72-25 4

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. _____ SHEET NO. _____

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
145'	150'	TUFFACEOUS: Quartzose, feldspathic section, grey white in colour.									
		147'4" - 148'5" Mafic portion									
150'	156'9"	TUFFACEOUS: Siliceous rock type, dense fine grained flaky texture. Grey white in colour. The rock is banded parallel to the C.A. (pyrite) mafic in places									
		151'10" Pyrite band 45° to c.a.									
		154'10" Talcose fracture plane 45° to c.a.									
156'9"	170'10"	MAFIC ROCK TYPE: Mineralogy consists of the following:									
		Biotite, pyroxene 60%									
		Pyrite /1%									
		Garnet /1%									
		Unidentified green matrix 30%									
		Feldspar 5-10%									
		Talc occurs on fracture planes.									
		167'6" Calcite on fracture									
		169'2" Schistosity 45° to c.a.									
170'10"	171'	SYENITE VEIN: Sharp upper and lower contacts									
171'	175'	Very fine grained / 1 mm feldspathic rock, flaky texture posesses a red hue, pyrite minor / / 1%									

EM. 6-1168

LANGRIDGE LIMITED.

DIAMOND DRILL RECORD

72-25 5

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. _____ SHEET NO. _____

E NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

REMARKS _____

LOGGED BY _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
175'	177'3"	Fine grained dark green mafic volcanic. Mineralogy:-										
		White feldspar 5 - 10%										
		Mafics (mica) 40%										
		Feldspathic green matrix 50%										
177'8"	207'3"	Lean iron bearing section, iron consists of coarse grained magnetite. Pyrite and pyrrhotite occur banded in the iron.										
		194'4" Banding 40° to c.a.										
		197'3" Pyrite band 25° to c.a. interbanded with magnetite and pyrrhotite, minor // 1 % Cu.										
		193' Pyrite bands parallel to c.a.										
		201'4" - 203'3" heavy pyrite and pyrrhotite section 25% Bands parallel to c.a.										
		204'10" Banding 13° to c.a.										
207'3"	221'9"	SYENITE										
		207'3" Upper contact sharp 26° to c.a. Mineralogy consists of the following:-										
		Mineral — % — Grain Size										
		White & pink orthoclase 90 5mm - 1cm										
		Mafics (pyroxene - cleavage folia not elastic) (chlorite- 5-10 1 - 3 mm										

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. 72-25 SHEET NO. 6

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS % Cu	ASSAYS % Pb	ASSAYS % Zn	ASSAYS OZ/TON Ag
221'9"	228'	MAFIC SYENITE: Mafics approximate 80% of rock. (chlorite, pyroxene)									
228'	237'	IRON SECTION:									
237'	250'	Mineralized section containing lead and zinc.	4472		237'1"	240'	2'9"	0.01	0.31	0.91	0.02
		237'7" Mineralization found on the external edges of feldspar fragments, in fractures cutting the fragments and as blebs in the matrix.	4473		240'	245'	5'	Nil	0.14	0.47	0.06
			4474		245'	247'3"	2'3"	0.01	0.09	0.38	0.01
			4475		247'3"	250'	2'9"	0.01	0.76	0.96	0.03
		237'2"-237'11" Brecciated section	4476		250'	255'	5'	0.04	0.21	0.28	0.02
		237'10" Zinc on fractures parallel to and 90° to c.a.	4477		255'	260'	5'	0.01	0.50	1.08	0.05
		238'8" Zinc on fracture 114° to c.a.									
	1%	239'5" Zinc in fine grained syenite vein (1mm wide) 13° to c.a.									
		237'7"-240'9" Syenite section , consisting of angular red feldspathic fragments contained in a green mafic matrix. The fragments are sub-fractured.									
		242'2" Zinc on fracture 20° to c.a.									
		242'7"-243' Zinc on fractures - 15° to c.a. (#1) - 70° to c.a. (#2)									
		The latter set cut and offset the former									
		243'2" Zinc on fracture 72° to c.a.									
		242' -247'2" Dark green coloured mafic rock type consisting of mafic feldspars fine grained < 1 mm									
		247'2"-254' Tuffaceous feldspathic rock type									

EM. 6-1168

LANGRIDGE LIMITED,

M. Brewster

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

CLAIM NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-25 SHEET NO. 7

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS % Cu	ASSAYS % Pb	ASSAYS OZ/TON XXXXX % Zn	ASSAYS OZ/TON Ag
237' to 250' continued											
		247'11" Zinc contained in fractures 30° to c.a., the apex of this fracture opens up and is calcite filled.									
		248'8" Lead, zinc 20° to c.a.									
		249'6" Syenite breccia section									
250'	254'										
		250'8" Chalcopyrite // 1% disseminated in pyrite									
		251'4" Pyrite banding 25° to c.a.									
		251'9" Small / 1 mm lead vein parallel to c.a.									
		252'1" Small / 1 mm lead vein 31° to c.a.									
		252'7" Zinc veinlet 47° to c.a.									
		253' Banding (pyrite) 7° to c.a.									
254'	267'6"	Mafic rock type consisting of soft, bright lime green pyroxenes and black mafics (mica pyroxene) garnets / 1 mm	4478		260'	265'	5'	0.02	0.19	0.70	0.02
			4479		265'	270'	5'	0.03	0.26	0.50	0.05
		256'3" Zinc on fractures 30° to c.a.									
		256'10" Speck of Cu									
		257' Mineralized veinlet 10° to c.a.									
		257'1" Speck of Cu									
		257'11" Lead zinc fractures 10° to c.a., 30° to c.a., parallel to c.a.									

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

E NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

72-25 8

HOLE NO. _____ SHEET NO. _____

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS % Cu	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/ton Ag
254' to	267'6"	continued									
		258'4" Zinc veinlet 25° to c.a.									
		258'10" Zinc filled fractures 20° to c.a., 50° to c.a.									
	/1%	263'7" Zinc 35° to c.a. (fracture)									
		264'5" Zinc filled fracture 50° to c.a.									
267'6"	277'5"	FELDSPATHIC epidotized section Zn // 1 %; pyrite 1 %	4480		270'	272'5"	2'5"	0.02	0.29	0.87	0.05
		271'10" Zinc in fractures and blebs									
277'5"	304'4"	MAFIC SYENITE									
304'4"	311'	SILICIFIED, epidotized section, Zinc mineralization / 1%									
		307'8"-308'3" 1% zinc in brecciated section epidotized, zinc occurs on fracture, calcite vein present but not extensively mineralized.	4481		305'	310'	5'	0.05	0.50	0.60	0.05
			4482		310'	315'	5'	0.06	0.11	0.35	0.03
311'	317'2"	MAGNETIC IRON BEARING SECTION	4483		315'	316'8"	1'8"	0.02	0.33	0.84	0.07
		312'2" Zinc on fracture 30° to c.a.									
		312'9'-316'6" Specks of disseminated copper									
		315'8" Zinc fractures 60° to c.a., 38° to c.a.									
		315'10" Zinc on fractures 58° to c.a.									
		316'2" Minor copper on fracture 33° to c.a.									
317'2"	317'6"	SYENITE VEIN									

M. Brewster

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. 72-25 SHEET NO. 9

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
317'6"	329'	ALTERED DARK GREEN MAFIC ROCK TYPE, weakly carbonated garnets / 1% 321' - 322'6" Magnetite section, iron bearing										
329'	330'5"	ZINC MINERALIZATION / 1%										
330'5"	347'2"	TUFFACEOUS: Siliceous grey white rock type, green hue given by partial epidotization. Pyrite / 1% 336'8" Pyrite banding 22° to c.a. 345'6" Minor lead mineralization / / 1% 347'4" Zinc blebs in calcite vein										
347'2"	349'6"	TALCOSE epidotized rock type.										
349'6"	350'	Angular non-mineralized breccia.										
350'	352'6"	Strongly carbonated dark green rock type, bright emerald green carbonates 70%; pyrite 1-2%; Mafics(micas) 30%.										
352'6"	365'	TUFFACEOUS Silicified, epidotized rock type exhibiting a quartzitic texture. Fine grained (1 mm) grey white rock possessing a green hue. Minor pyrite. 361' Syenite vein 15° to c.a. 362'5" Syenitic section banding 30° to c.a.										
365'	368'5"	Dark green soft micaceous rock type (chlorite) altered basic volcanic										
368'5"	369'6"	SYENITE VEIN containing magnetite. Upper contact 55° to c.a.										
369'6"	370'6"	EPIDOTIZED SECTION										
	370'6"	END OF HOLE										

EM, 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY: Marshall Boston Iron Mines Limited

HOLE NO. 72-26 LENGTH 152'3"

LOCATION North Grid, 18 W L42 W 11+13 S

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH 140° DIP -45°

STARTED August 4, 1972 FINISHED August 7, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°				
151	-45°				

HOLE NO. 72-26 SHEET NO. 1

REMARKS: Minor amounts of lead, zinc mineralizatia found in core

LOGGED BY M. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0'	7'5"	CASING										
7'5"	22'7"	DIORITIC ROCK TYPE: Differentiated from syenite stock consists of (A) white feldspars 25%; (B) Mafics (green black micas and pyroxene) 74%; (C) Pyrite 1%. The rock contains sections that are completely mafic. Mafics break with stubby, hackly fracture, some 90° cleavage.										
22'7"	28'	SYENITE: Pink; mineralogy consists of the following: Feldspars - 90%; 1-4mm Mica - 5-10%; 1-4mm Quartz - / 1%; Euhedral zoned feldspars contained in green micaeous matrix.										
28'	46'7"	NICAEOUS ROCK TYPE: Dark green brown in colour, micas green black in colour. Epidote 1%.										
46'7"	47'7"	SYENITE SECTION.										
47'7"	53'9"	AS DESCRIBED ABOVE 28' - 46'7"										
53'9"	56'7"	GREY WHITE SILICIFIED SECTION										
56'7"	57'6"	SYENITE: Pink; Mineralogy consists of the following: Quartz - 1%; Feldspar - 90%; Maficas (mica) - 5 - 10%. Subhedral to euhedral crystals , grain size 1 - 3 mm. Lower contact 30° to c.a.										
57'6"	63'4"	SILICEOUS SECTION: Feldspathic, grey white in colour, breaks with conchoidal to hackly fracture, disseminated euhedral pyrite 5%.										

M. Brewster

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. 72-26 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
63'4"	82'2"	ALTERED VOLCANIC: Mineralogy consists of the following: Mineral — % — Grain Size Biotite — 10-15 — 3mm Granular translucent bright green (epidote) — 25 — 1mm Subhedral salmon pink orthoclase — 60 — 3mm Quartz — / 1 The epidote forms around but independent of the othoclase. Hackly breakage. The micaceous nature of the rock increases dramatically within one foot of the lower contact.									
82'2"	85'8"	SILICEOUS ROCK TYPE: Dense non-crystalline rock breaks with conchoidal fracture, flaky texture, euhedral pyrite / 1% disseminated throughout the rock, grey white in colour, with tints of green and pink, is predominantly feldspathic. Epidote: 1 - 2% Upper contact 10° to c.a.									
85'8"	88'	Mixed section of mafic and syenitic rock 85'10" - 87'2" - syenite vein Syenite blebs contained in the mafic rock similar to that described in 7'5" - 22'7".									

EM. 6-1168

LANGRIDGE LIMITED.

N. Brewster

DIAMOND DRILL RECORD

72-26 3

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. _____ SHEET NO. _____

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS % Cu	ASSAYS % Pb	ASSAYS % Zn	ASSAYS OZ/TON Ag
83'	89'6"	TUFFACEOUS Quartzose feldspathic section, grey white in colour,.Slight 1% disseminated pyrite; Minor ∠ 1% pyroxene.									
89'6"	102'4"	AS DESCRIBED IN SECTION 7'5" - 22'7". Lower portion 100'-102'4" dominantly micaceous, green black in colour. Unidentified bright green granular matrix mineral 5%.									
102'4"	103'1"	SYENITE PINK	4484		102'4"	105'	2'8"	Nil	0.38	0.20	Nil
103'1"	105'	Rock type similar to that described 89'6" - 102'4" ∠∠ 1% Pb, Zn mineralization.									
105'	108'10"	BRECCIATED SECTION: Dense deep red fine grained angular to sub-angular syenite fragments contained in a matrix of dull green talcose to epidotized material. Sparse ∠ 1% lead, zinc mineralization occurs in fractures and bounding the fragment outlines. 107'7": Zinc contained in fracture 30° to c.a.	4485		105'	110'	5'	0.01	0.23	0.64	Nil
108'10"	121'10"	TUFFACEOUS: Siliceous feldspathic section varying in colour from grey white to pink. The rock breaks with conchoidal fracture and exhibits a sub-granular texture.	4486		110'	113'2"	3'2"	0.02	0.42	1.43	0.01
		108'10" - 112'4" Brecciated section containing lead, zinc mineralization. The mineralization occurs in fractures : 109' parallel to c.a. 109'7" 90° to c.a. 110'9" 27° to c.a.	4487		113'2"	115'	1'10"	0.02	0.04	0.09	Nil
			4488		115'	120'	5'	0.01	0.03	0.09	Nil
			4489		120'	125'	5'	0.02	0.09	0.23	Trace

EM. 6-1168

LANGRIDGE LIMITED,

M. Burnster

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. 72-26 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS % Cu	ASSAYS % Pb	ASSAYS XXXXXX OZ/TON Zn	ASSAYS OZ/TON Ag	
108'10"	121'10"	continued						Cu	Pb	Zn	Ag	
		110' Zinc occurs outlining fragment boundaries and also occurs within the boundaries of very fine grained syenite which frequently occurs in existing fractures.										
		111'8" - 115'9" Barren section										
		115'9" - 116'5" Zinc mineralization similar to that described above.										
		117'5" Vein filled with light lime green fibrous radiating mineral (90° cleavage) pyroxene. 44° to c.a.										
		116'5" - 121'10" No mineralization										
121'10"	123'	Fine grained // 1 mm sugary textured mafic rock type. Light minerals feldspar 20% Dark minerals 50%	4490		125'	130'	5'	0.02	0.09	0.18	Nil	
		122'11" Zinc in fracture 90° to c.a. Pyrite 1%.										
123'	131'10"	SILICEOUS feldspathic sub-granular tuffaceous rock type, grey white in colour. Finely disseminated pyrite 1%.	4491		130'	135'	5'	0.04	0.10	0.19	Nil	
		129' Zinc in pyroxenite vein 42° to c.a.										
		129'3" Zinc specks in fracture 20° to c.a.										
		129'9" Syenite vein 55° to c.a.										
					Average	Assay	- Zn	0.39%	across	32'8"		
							- Pb	0.15%	across	32'8"		

M. Brewster

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. 72-26 SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
131'10"	136'7"	SIMILAR TO SECTION 121'10" - 128' 132'1" - Zinc in fracture 40° to c.a. 132'2" Copper in fracture 132'5" Speck of copper 133'1" - 133'6" Syenite vein									
136'7"	137'6"	SYENITE VEIN									
137'6"	145'	SILICEOUS Feldspathic rock type. Dense sub-granular finely disseminated pyrite 1%.									
145'	148'8"	SYENITIC ROCK TYPE: Gneissic sub-crystalline mafics 15%; quartz / 1% 148'1" Speck of copper on broken face.									
148'8"	151'	Dark green coloured rock. Mineralogy consists of the following: Mineral — % — Grain Size Green black micas 60-70 3 mm white & pink feldspar 10 1 mm Light green mineral epidote 20 1 mm									
151'	151'7"	SYENITE VEIN									
151'7"	152'3"	AS ABOVE 145' - 148'8"									
152'3"		END OF HOLE									

M. Brewster

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
HOLE NO. 72-G-1 LENGTH 205'10"
LOCATION McCrea Group
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 282° DIP -60°
STARTED August 12, 1972 FINISHED August 14, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0'	-60°				
204'	-55°				

HOLE NO. 72-G-1 SHEET NO. 1

REMARKS Samples taken showed low values in gold

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0'	4'	CASING										
4'	55'8"	Dark green black mafic rock type. Fine grained / 1mm basaltic volcanic blebs of calcite contained in rock, calcite veinlets 1mm also occur. Mineralogy consists of green feldspars and green black mafics.										
		10'9" - 13'7" Carbonate section, effervesces in dilute HCl. The effervesence causd by a multitude of minute carbonate bearing fractures present in the rock. The rock is grey black in colour, sugary textured. Pyrite 1%.										
		10'11" Calcite filled fracture carrying pyrite 40° to c.a.										
55'8"	56'11"	CARBONATED SECTION: Fine grained dark green black mafic volcanic effervesence due to minute carbonate bearing fractures. Pyrite 1%. Disseminated magnetite 1-2% (1mm size, triangular crystal form).										
56'11"	83'9"	MAFIC VOLCANIC (gabbroic) fine grained 1mm. The majority of the rock is composed of sodic to calcic feldspars(white to green in colour) and dark green black mafic minerals (pyroxene). The rock is partially epidotized, varying in percentage from 5 to 25%.										
83'9"	104'4"	CARBONATED SECTION, rock effervesces in dilute HCl, calcite blebs also present throughout this section.										
		84'6" banding 40° to c.a.										
		94'1" calcite filled fracture 60° to c.a.										
		94'4" fracture 30° to c.a.										
		90'11" banding 35° to c.a.										

EM. 6-1168

LANGRIDGE LIMITED,

N. Brewster

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-G-1 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON Au	ASSAYS OZ/TON Ag
83'9"	to 104'4" continued										
		The rock is a dense fine grained / 1mm-1mm grey black mafic volcanic. The carbonization is due to minute carbonate filled shears cutting the rock. In addition free calcite blebs dot the core surface (5%), these are possibly fillings of voids caused by gas bubbles. The outlines of the calcite blebs vary from ovoid to irregular. Banding due to slight development of schistosity is visible. Euhedral pyrite /1%									
104'4"	105'3"	SCHISTOSE silicified section, sulphides 1-2% pyrite present	4492		104'5"	105'4"	11'5"			0.13	0.40
104'5"	105'3"	Vein quartz section, streaks of grey black material present appear to fill strips created in white chalcodonic angular quartz inclusions occurring in the quartz vein. Sulphides / 1% Chalcopyrite / 1%									
105'3"	105'11.5"	SILICIFIED SECTION, dense grey to grey white colour, black streaks (possible tellurides) run through rock. Sulphides / 1%	4493		105'4"	106'	8"			0.005	0.04
			4494		106'	107'	1'			0.22	0.13
105'11.5"	109'5.5"	CONTORTED BANDED SECTION. Silicified rock type (highly contorted black bands present in addition to more massive sulphides which have been drawn into bands 107'4" sulphides 108' - 108'4" quartz section	4495		107'	108'	1'			0.005	0.06
			4496		108'	108'9"	9"			0.005	0.03
			4497		108'9"	109'5.5"	8'5"			Nil	0.06
109'5.5"	120'	AS DESCRIBED IN SECTION 83'11" - 104'4"									

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-G-1 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON Au	ASSAYS OZ/TON Ag
120'	125'	As described in section 56' - 83'9"									
125'	175'	Dense fine grained green black mafic volcanic, individual crystals not identifiable, breaks with subconchoidal fracture. Most dominant material is the dark green matrix, calcic feldspars. The rock is frequently cut by calcite, leaving fractures at various angles to the c.a. The rock also possesses a somewhat slaty look. Pyrite / 1%.									
		144' - 145'5" light spruce green feldspathic matrix exposing biotite phenocrysts 10%, grain size 1 - 5 mm. Upper contact 20° to c.a. Lower contact 10° to c.a.									
168'10"	170'10"	As above 144' - 145'5" appears to be tuffaceous, mica content 15%, schistose acp. 52° to c.a.,,lineation of micas and feldspathic matrix. Euhedral pyrite / 1%; Lower contact 64° to c.a.									
		167'1" Banding 45° to c.a.									
175'	190'	Rock type as described above	4498		188'10"	189'7"	9"			0.005	Trace
		180'8" - 180'10" quartz bleb									
		181'2" - 131'4" quartz bleb									
		181'10" - 182'1" quartz section, veinlet 45° to c.a.									
		- 182'4" two parallel silicified fractures 45° to c.a. 1 mm									
		182'10" - 182'11" silicified section									
		- 183'8" silicified band 32° to c.a.									

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-G-1 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON Au	ASSAYS OZ/TON Ag
175' to	190'	continued									
		187'3" - 187'8" Silicified section									
		189' - 190' Quartzose section, herringbone pattern present in the quartz, sulphides crosscut the quartz.	4495		189'7"	190'	5"			0.005	0.06
190'	190'6"	190' - 190'5.5" Siliceous section, herringbone pattern present in the quartz which carries sulphides									
		190'5.5"-190'9" Quartz vein lower contact 40° to c.a.	4500		190'	191'1"	1'1"			0.05	0.04
		190'9" -191'1" Siliceous section carrying sulphides Herringbone pattern in quartz, sulphides cross cut the quartz.									
			202E		191'1"	192'1"	1'			Nil	Nil
		192' - 194'1.5" Siliceous section banded 193'5" banding 90° to c.a.	203E		192'1"	193'1"	1'			Nil	0.03
			204E		193'1"	194'1"	1'			Nil	0.02
		195'8" - 195'10" Silicified section, herringbone pattern present									
196' 6"	199' 1"	Somewhat siliceous looking section banding 60' to c.a.									
199' 1"	199'10"	Silicified calcified section, lensoid shaped fragments give a prominent banded nature 35° to c.a.		Average Assay		104'4.5" - 138'10"		109'5.5" - 194'1"		.083 .017	0.13 .021
		199'8" Calcite vein (1mm) 45° to c.a. cut and offset by set of fractures									
200'	205'10"	200' -200'5.5" Herringbone pattern evident in core									
		200'3" -200'5.5" Siliceous section lower fracture contact 26° to c.a.									
		200'11.5"-201'1.5" Siliceous band fractured lower contact 123° to c.a. / 1% pyrite present									
		203'10"-205'10" Dark fine grained massive banded rock similar to 196'6"-199'1"									
		205'10" END OF HOLE									

EM. 6-1168

LANGRIDGE LIMITED.

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
HOLE NO. 72-G-2 LENGTH 236'
LOCATION McCrea Group
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 282° DIP -50°
STARTED August 16/72 FINISHED August 17/72

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50°				
236	-48°				

HOLE NO. 72-G-2 SHEET NO. 1
REMARKS Four samples taken in this hole
LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS % Cu	ASSAYS OZ/TON Au	ASSAYS OZ/TON Ag
0	2'9"	CASING									
2'9"	4'8"	MAFIC VOLCANIC dark green fine grained rock type, distinct lower contact 60° to c.a.									
4'8"	75'	PORPHYRY grey green white in colour; mineralogy consists of the following: Mineral — % — Grain Size Mafic phenocrysts micas — 10 — 1-5 mm Quartz — 1 Epidote — 2 Zoned feldspars — 30 — 2-3 mm The above minerals are contained in a siliceous feldspathic matrix.									
		16'9.5" - 16'11" quartz calcite vein rusty									
		19'1" - 19'3" quartz vein									
		23'8.5" - 23'10.5" shattered quartz-calcite vein									
		44'4" - 45'8.5" quartz-calcite vein. Pyrite 1% possible cu / /1% occurring as green black tarnish.	208E		40'	41'	1'			Tr	Nil
		73'7" chalcopyrite speck in fracture									

M. Brewster

EM. 6-1168
LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

[redacted] NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. Z2-C-2 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS % CU	ASSAYS OZ/TON Au	ASSAYS OZ/TON Ag
75'	81'5"	AS DESCRIBED ABOVE									
81'5"	122'9"	TRANSITION ZONE: The rock still possesses a somewhat porphyry nature but various changes are evident due to assimilation of the host rock. 81'5" - 85' zone of talcose development with carbonate sections 82'5" - 82'10" carbonatite intrusion, contacts 65° to c.a., dark in colour, effervesces with HCl 83'7" - 84' As above (82'5.5"-82'10") contacts 68° to c.a. 93' - 95' As above (82'5.2"-82'10") upper contact 65° to c.a. 107' 108'7" Talcose section lime green in colour, easily cut with knife, contains quartz-calcite blebs and pyrite blebs. Upper contact 57° to c.a. 112'7" - 113'9" Section containing quartz veins, the largest being from 112'7"-112'-10.", and minor amounts of sulphides 1%. 113'3.5" Speck of chalcopyrite	205E 206E 207E		112'7" 119'5" 120'	113'8" 120' 121'2.5"	1'1" 7" 1'2.5"		0.01 0.02 0.01	Nil 0.005 Nil	Trace 0.02 0.01
122'9"	155'	FINE GRAINED GREY GREEN BASIC VOLCANIC. Mineralogy consists of grey and green calcic feldspars 60%; black mafic minerals (pyroxene) 40%; scattered pyrite 1% upper contact 40° to c.a. 133'10" speck of chalcopyrite 136'3.5" speck of chalcopyrite 148'10.5" speck of chalcopyrite } ∠ 1%									

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-G-2~~ SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
155'	165'	AS ABOVE: Mineralogy as described above except for the presence of epidote 10%, grain size has increased to 4 mm. 152'10" speck of chalcopyrite in quartz vein, 40° to c.a. 153'4" chalcopyrite specks at juncture of two quartz veins 33° to c.a. and 90° to c.a. 157'3" speck of chalcopyrite in quartz calcite vein 50° to c.a. 162' speck of chalcopyrite in quartz vein 40° to c.a.										
165'	167'7"	Grain size decreases gradually from 165'-166'. Rock type as described above 122'9"-155'										
167'7"	179'	CARBONATITE (effervesces in HCl) dark grey green rock consisting of - Mineral — %: Micas (phenocrysts) 15; Quartz eyes 1; Pyrite 1; Mafics 15 — Grain Size: Micas (phenocrysts) 2-4 mm The above minerals contained in a grey white feldspathic appearing matrix. The effervesence appears due to carbonate material outlining the mineral boundaries.										

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

CLAIM NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-G-2 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
179'	180'8"	LAMPROPHYRE DYKE: dark green black coloured rock, Biotite, mica phenocrysts (2-3mm) in green micaceous matrix. Carbonated. Upper contact 50° to c.a. Lower contact 70° to c.a.										
180'8"	190'	AS DESCRIBED ABOVE 122'9"-155'										
190'	236'	CARBONATED ROCK TYPE, vigorously effervesces in dilute HCl										
		Fine grained / 1mm green coloured rock has a shiny subslaty sheen on broken surface. The matrix consists of green minerals and black mafics.										
		198' - 198'3" compound quartz calcite vein, the calcite occurring on the external margins. 40° to c.a.										
		202'7" banding 45° to c.a.										
		195' - 198' numerous small 1mm calcite veins cut core predominantly 51° to c.a.										
		198'9.5" - 199'1" quartz calcite vein, pyrite /1% quartz slightly fractured.										
		219'5"-221'2.5" quartzose calcitic section containing sulphide mineralization which occurs both finely disseminated / 1mm and as blebs.										
		219'10" shearing in quartz 72° to c.a. evident as dark stripes on core surface.										
		220'4" speck of chalcopyrite										

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-C-2 SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
190'	to 236'	continued										
		220' - 220'4.5" quartz, this section does not react with HCl										
		220'11"-221'2" finely disseminated sulphides										
		223'6" -225' several calcite veinlets (1mm) predominantly 90° to c.a.										
236'		236' END OF HOLE										

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY: Marshall Boston Iron Mines Limited
CLAIM NO.: 72 - 22 LENGTH: 241'
LOCATION: 116 W 24 + 50 S North Grid
LATITUDE: _____ DEPARTURE: _____
ELEVATION: _____ AZIMUTH: 136° DIP: -45°
STARTED: April 29, 1972 FINISHED: May 1, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-22 SHEET NO. 1

REMARKS: Casing left in hole.
No significent mineralization
No samples taken

LOGGED BY: N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	59'	Casing										
59'	150'	Peridotite - blue grey rock type, magnetic, compact, dense fine grained / 1mm. Minor 1% disseminated pyrite. Mineralogy consists of pale green white sugary textured mineral (olivine) 35% in a green black matrix. Talc minerals occur on fracture planes; minor muscovite / 2% occurs spotted in rock. 63' - epidotized section, pyrite 68'6" - 70' - altered porphyritic flow (now micas and epidote) 77'6" - 78'6" - pyroxenite band 125' - 125'7" - broken section 133'4" - talc with pyrite smears on fracture 10° to core axis 139'2" - 141'7" - chloritized (mud) broken section, probable faulting.										
150'	200'	Rock type as above, blue grey colour, magnetic 171' - 172' - altered section consisting of dark brown coloured micas, calcite and pale green carbonate banded at 35° to core axis. 179' - 180'7" - altered section consisting of epidote 75%, calcite and dark brown mica. 187'5" - 191'3" - altered section, granitic, upper and lower contacts close on chloritic schist. 190'7" - pyroxene band 56° to core axis.										

EM. 6-1168

LANGRIDGE LIMITED,

M. Brewster

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
CLAIM NO. 72 - 22 LENGTH
LOCATION
LATITUDE DEPARTURE
ELEVATION AZIMUTH DIP
STARTED FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-22 SHEET NO. 2
REMARKS

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
150' to 200' continued											
		196'5" - 197'0" - section containing brown mica schist and epidotized band (pale green), calcite and dull blue green carbonate (probable calcite), epidotized bands 26° to core axis. Euhedral pyrite ∠ 1% present in epidotized bands. 198'2" - pyrite cubes on carbonated fracture, 5° to core axis.									
200'	241'	Rock type as above 150' to 200', blue grey colour, magnetic. 211' - 212'4" - altered schistose, micaceous section 226' - 230' - chloritized, schistose, micaceous section									
241'		END OF HOLE									

EM. 6-1168

LANGRIDGE LIMITED,

N. Brewster

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
HOLE NO. 72 - 23 LENGTH 150'
LOCATION North Grid 104 W 5 * 006 N
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 002° DIP -45°
STARTED May 3, 1972 FINISHED May 4, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-23 SHEET NO. 1
REMARKS One casing broke in this hole at 22'.

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	45'	Casing										
45'	55'6"	Andesitic rock type, grey green colour on cored surface, grey black on fresh. Mineralogy consists of: Feldspar - 40% to 50%; Mafics: Chlorite pyroxene - 50% to 60%; minor pyrite $\angle$ 1%. Grain size 1 mm. Hardness of rock - approximately 3. Rock is slightly schistose 50° to core axis. Syenite inclusions and ghost clasts present.										
55'6"	65'	Rock consists of dramatically alternating bands of micas and pale blue green talc (2mm - 1cm wide). The micas present have a green black colour (chlorite). Bands are oriented 75° to core axis and the core frequently broken parallel to the banding. Carbonates present in portions of the rock.										
65'	73'5"	Schistose carbonated rock, dark green in colour. Mineralogy consists of: Micas - 65%; Light minerals (carbonates) - 15%; Greenish white epidote - 20%; Schistosity 123° to core axis, 117° to core axis.										
73'5"	76'6"	As above - 55'6" to 65'.										

EM. 6-1168

LANGRIDGE LIMITED.

N. Brewster

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. 72-23 SHEET NO. 2

REMARKS _____

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
76'6"	80'	Grey white rock type. Consisting of chlorite 15% - 20%; grey white feldspar 75%; garnet / 1%; pyrite / 1%; epidote. The epidote is present in stringers and disseminations. Some of the feldspars are altered to a brown white mineral, grain size 1 - 3 mm.										
80'	81'11"	Transition section, quartz veins visible, specks of chalco - pyrite / 1% associated with the quartz.										
81'11"	93'5"	As above - 55'6" to 65'										
93'5"	97'5"	As above - 65' to 73'5"										
97'5"	119'	As above - 55'6" to 65'. Green chlorite is the dominant mineral, the rock is very soft, almost mud.										
119'	135'	Similar to 65' to 73'5". Gneissic rock, grey green in colour containing grey feldspars, chlorite and epidote of varying amounts, depending on the section observed. Feldspar: 40% to 60%; chlorite: 40% to 60%; pyrite: / 1%; magnetite: / 1%. The feldspars and chlorite form crudely alternating layers. Gneissosity 36° to core axis.										

EM. 6-1168
LANGRIDGE LIMITED.

N. Brewster

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. 72-23 SHEET NO. 3

REMARKS _____

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
135'	143'4"	Transition zone, somewhat contorted and schistose, the section has been silicified and epidotized. Syenite injections present. 135'6" to 136'3" consists of magnetite bands, subrotated feldspathic clast visible, chloritic inclusions and associated cherty material highly contoured. / 1% pyrite.									
143'4"	150'	Syenite. Contact between transition rock and syenite 60° to core axis; euhedral pyrite 1%. END OF HOLE 150'									

EM. 6-1168

LANGRIDGE LIMITED.

N. Brewster

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 24 LENGTH 250'

LOCATION L 88 W 34 + 20 S Southwest Grid

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH 004° DIP -45°

STARTED May 7, 1972 FINISHED May 9, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-24 SHEET NO. 1

REMARKS No significant mineralization in this hole.

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	3'7"	Casing										
3'7"	13'7"	Grey green siliceous rock, dense, fine grained (1 mm) mineralogy consists of: grey feldspar; epidotized feldspar; micas (biotite). The rock possesses a flaky texture. Hematite present along fracture planes.										
13'7"	50'6"	Green mafic volcanic (andesite) porphyry. Mineralogy consists of: white feldspar 40%; epidotized feldspar 40% and chlorite 20%. Grain size 1 - 3 mm. Quartz and calcite bearing fractures cut the rock.										
50'6"	70'	Schistose rock, composed of alternating bands of chlorite mica and a blue green feldspathic material. The alternating bands of material are somewhat contorted and display various orientations to the core axis. 55' - 60' consists of apple green epidote and blebs of quartz with minor carbonate. 60'2" Bands parallel to core axis 61'1" Bands 20° to core axis 64' Bands parallel to core axis 65'7" Band 10° to core axis										
70'	80'	Rock similar to 13'7" - 50'. Predominant green colour, composed of grey white feldspar, epidotized feldspar and chlorite. Garnets $\leq$ 1%. Also present are bands from which chlorite has been segregated consisting only of epidote and grey white feldspar.										

EM. 6-1168

LANGRIDGE LIMITED,

N. Brewster

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. 72-24 SHEET NO. 2

REMARKS _____

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
80'	124'3"	Rock consists of chlorite, grey white feldspar and white alteration products.										
		Mineral / % / Grain Size: Feldspar 60 5mm; Chlorite 40 3mm										
		Epidote which is absent in the matrix occurs as bands.										
124'3"	127'3"	Dense grey fine grained (/ 1mm) siliceous looking rock; epidote / 5%; lower contact 45° to core axis.										
127'3"	150'	Similar to section 80' - 124'3". Chlorite composes 75% of rock; pyrite / 1%; blue white material / 1% (quartz).										
150'	167'8"	Similar to 124'3" - 127'3"										
167'8"	215'11"	Siliceous banded rock varying in colour from grey, grey white, to grey green, depending on the arrangement of bands.										
		175' - 185' consists predominantly of siliceous quartzose material; bands 35° to core axis										
		185' - 215'11" composed of alternating bands of quartzose material and chlorite. Pyrite / 1% present along the bedding 46° to core axis.										
		187'3" clasts visible in the bedding										
		187'8" bands offset (2mm) by fractures 15° to core axis.										
		199'4" - 215'11" occasional bands of magnetite occur throughout this section, amounting to approximately 7%. Interlayered with quartzose and chloritic bands.										

N. Brewster

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. 72-24 SHEET NO. 3

REMARKS _____

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
215'11"	224'3"	As above, 13'7" – 50'6". Rock slightly gneissic. 217'7" – 218'5" pyrite / 1% 218'5" – 219' garnet ferous section.									
224'3"	225'3"	Syenite									
225'3"	227'	Mixed rock containing syenitic and andesitic sections.									
227'	242'4"	Banded rock containing alternating bands of quartzose, iron approximately 15% 232'3" iron band 45° to core axis.									
242'4"	250'	Gneissic andesitic rock, dark green black colour. 243'8" – 244'1" silicified, garnet ferous epidotized section.									
		END OF HOLE 250'									

EM. 6-1168

LANGRIDGE LIMITED,

N. Brewster

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72-25 LENGTH 370'6"

LOCATION North Grid, 36' W L42 W 9+90 S

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH 140° DIP -45°

STARTED July 31, 1972 FINISHED August 3, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°				
150	-45°				
314	-43°				

HOLE NO. 72-25 SHEET NO. 1

REMARKS Hole designed to undercut previous zinc zone at 200'
Some mineralization, Pb, Zn, Cu obtained

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	10'	CASING										
10'	12'8"	SYENITE: First two feet heavily epidotized, magnetite mineralization 15%										
12'8"	14'9"	GREENSTONE: Gabbroic. Mineralogy consists of : Garnet 2 - 3% Magnetite 5-10% Feldspar 5% Mafics (mica, pyroxene) 75% Some of the feldspar has been epidotized.										
14'9"	17'8"	SYENITE: Pink 15'5" - 15'10" Band of mafic rock described above										
17'8"	20'	SYENITE: The syenite grades in to a more basic type consisting of feldspar, pyroxene and alteration equivalent 30% garnet and magnetite.										
20'	27'6"	AS DESCRIBED ABOVE 12'8" - 14'9"										
27'6"	28'4"	FELDSPAR PORPHRY: enequigranular, crystalline, non-granitic texture. Grey white colour.										
28'4"	35'2"	TUFFACEOUS: Feldspathic quartzose mineralogy, fine grained / 1 mm epidotized. Pyrite cubes visible 1 - 2%.										

EM. 6-1168

LANGRIDGE LIMITED,

M. Brewster

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. 72-25 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
35'2"	40'6"	PYROXENE SYENITE: Mineralogy consists of: Feldspar Pyroxene Grain size 4 mm Zoning is visible in the feldspars, lower contact is distinct.										
40'6"	41'8"	AS DESCRIBED 12'6" - 14'9"										
41'8"	49'	AS DESCRIBED 28'4" - 35'2"										
49'	50'5"	AS DESCRIBED 12'6" - 14'9"										
50'5"	70'	IRON SECTION: Feldspathic tuffaceous section banded with mafic section described below- Section 60 - 65 : Mafic section dark green black in colour, pyroxene plus light green mineral (calcic feldspar) from the matrix 75% white feldspar 2% Magnetite 10-15% Pyrite 5% The mafic section has the higher iron content.										
70'	86'3"	TUFFACEOUS: Hard quartzose fine grained rock, portions of the section are dense noncrystalline and posess a lime green colour. One section, 73'-74'7", contains more mafic minerals than remainder.of the section. Pyrite 1-2% Garnet / 1%										

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. 72-25 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
86'3"	106'	IRON SECTION: This section is similar to 50'5" - 70' in that it contains both the more magnetic mafic rock type 86'3" - 89'4" 91' - 93'10" 102'6" - 104' and the less magnetic feldspathic sections which exhibit a gnessoid character (94'3") i.e. parallelism of light and dark minerals segregated. 93'10" - 94' Syenite vein 101'6" Pyrite 103'3" - 103'10" Pyrite through this portion										
106'	115'	MAFIC SECTION: Soft micaceous (biotite) pyroxene, talcose section. 114'2" - 114'8" inclusion visible										
115'	133'	SYENITE: Pink, mineralogy consists of: Feldspars 90% Mafics 5 - 10% (pyroxene) The top and bottom contacts are sharply defined, gradational mafic change occurs toward the lower portion of the syenite.										
133'	144'	MAFIC SECTION as above, green in colour, magnetite present. 136'3" - 137'10" Micaceous soft section.										
144'	145'	SYENITE										

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

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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. _____ SHEET NO. _____

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
145'	150'	TUFFACEOUS: Quartzose, feldspathic section, grey white in colour.										
		147'4" - 148'5" Mafic portion										
150'	156'9"	TUFFACEOUS: Siliceous rock type, dense fine grained flaky texture. Grey white in colour. The rock is banded parallel to the C.A. (pyrite) mafic in places										
		151'10" Pyrite band 45° to c.a.										
		154'10" Talcose fracture plane 45° to c.a.										
156'9"	170'10"	MAFIC ROCK TYPE: Mineralogy consists of the following:										
		Biotite, pyroxene 60%										
		Pyrite /1%										
		Garnet /1%										
		Unidentified green matrix 30%										
		Feldspar 5-10%										
		Talc occurs on fracture planes.										
		167'6" Calcite on fracture										
		169'2" Schistosity 45° to c.a.										
170'10"	171'	SYENITE VEIN: Sharp upper and lower contacts										
171'	175'	Very fine grained / 1 mm feldspathic rock, flaky texture posesses a red hue, pyrite minor / / 1%										

EM. 6-1168

LANGRIDGE LIMITED,

M. Brewster

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

72-25 5

HOLE NO. _____ SHEET NO. _____

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
175'	177'8"	Fine grained dark green mafic volcanic. Mineralogy:- White feldspar 5 - 10% Mafics (mica) 40% Feldspathic green matrix 50%										
177'8"	207'3"	Lean iron bearing section, iron consists of coarse grained magnetite. Pyrite and pyrrhotite occur banded in the iron. 194'4" Banding 40° to c.a. 197'3" Pyrite band 25° to c.a. interbanded with magnetite and pyrrhotite, minor // 1 % Cu. 198' Pyrite bands parallel to c.a. 201'4" - 203'3" heavy pyrite and pyrrhotite section 25% Bands parallel to c.a. 204'10" Banding 13° to c.a.										
207'3"	221'9"	SYENITE 207'3" Upper contact sharp 26° to c.a. Mineralogy consists of the following:- Mineral — % — Grain Size White & pink orthoclase — 90 — 5mm - 1cm Mafics (pyroxene - cleavage folia not elastic) (chlorite- cleavage folia not elastic) — 5-10 — 1 - 3 mm										

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. 72-25 SHEET NO. 6

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS % Cu	ASSAYS % Pb	ASSAYS ~~oz/ton~~ % Zn	ASSAYS oz/ton Ag
221'9"	228'	MAFIC SYENITE: Mafics approximate 80% of rock. (chlorite, pyroxene)									
228'	237'	IRON SECTION:									
237'	250'	Mineralized section containing lead and zinc.	4472		237'1"	240'	2'9"	0.01	0.31	0.91	0.02
		237'7" Mineralization found on the external edges of feldspar fragments, in fractures cutting the fragments and as blebs in the matrix.	4473		240'	245'	5'	Nil	0.14	0.47	0.06
			4474		245'	247'3"	2'3"	0.01	0.09	0.38	0.01
		237'2"-237'11" Brecciated section	4475		247'3"	250'	2'9"	0.01	0.76	0.96	0.03
		237'10" Zinc on fractures parallel to and 90° to c.a.	4476		250'	255'	5'	0.04	0.21	0.28	0.02
		238'8" Zinc on fracture 114° to c.a.	4477		255'	260'	5'	0.01	0.50	1.08	0.05
	/1%	239'5" Zinc in fine grained syenite vein (1mm wide) 13° to c.a.									
		237'7"-240'9" Syenite section , consisting of angular red feldspathic fragments contained in a green mafic matrix. The fragments are sub-fractured.									
		242'2" Zinc on fracture 20° to c.a.									
		242'7"-243' Zinc on fractures - 15° to c.a. (#1) - 70° to c.a. (#2) The latter set cut and offset the former									
		243'2" Zinc on fracture 72° to c.a.									
		242' -247'2" Dark green coloured mafic rock type consisting of mafic feldspars fine grained / 1 mm									
		247'2"-254' Tuffaceous feldspathic rock type									

EM. 6-1168

LANGRIDGE LIMITED,

M. Brewster

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. 72-25 SHEET NO. 7

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS % Cu	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/ton Ag
237' to 250' continued											
		247'11" Zinc contained in fractures 30° to c.a., the apex of this fracture opens up and is calcite filled.									
		248'8" Lead, zinc 20° to c.a.									
		249'6" Syenite breccia section									
250'	254'										
		250'8" Chalcopyrite // 1% disseminated in pyrite									
		251'4" Pyrite banding 25° to c.a.									
		251'9" Small / 1 mm lead vein parallel to c.a.									
		252'1" Small / 1 mm lead vein 31° to c.a.									
		252'7" Zinc veinlet 47° to c.a.									
		253' Banding (pyrite) 7° to c.a.									
254'	267'6"	Mafic rock type consisting of soft, bright lime green pyroxenes and black mafics (mica pyroxene) garnets / 1 mm	4478		260'	265'	5'	0.02	0.19	0.70	0.02
			4479		265'	270'	5'	0.03	0.26	0.50	0.05
		256'3" Zinc on fractures 30° to c.a.									
		256'10" Speck of Cu									
		257' Mineralized veinlet 10° to c.a.									
		257'1" Speck of Cu									
		257'11" Lead zinc fractures 10° to c.a., 30° to c.a., parallel to c.a.									

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

[redacted] NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-25 SHEET NO. 8

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS % Cu	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/ton Ag
254' to	267'6"	continued									
		258'4" Zinc veinlet 25° to c.a.									
		258'10" Zinc filled fractures 20° to c.a., 50° to c.a.									
	/1%	263'7" Zinc 35° to c.a. (fracture)									
		264'5" Zinc filled fracture 50° to c.a.									
267'6"	277'5"	FELDSPATHIC epidotized section Zn // 1 %; pyrite 1 %	4480		270'	272'5"	2'5"	0.02	0.29	0.87	0.05
		271'10" Zinc in fractures and blebs									
277'5"	304'4"	MAFIC SYENITE									
304'4"	311'	SILICIFIED, epidotized section, Zinc mineralization / 1%									
		307'8"-308'3" 1% zinc in brecciated section epidotized, zinc occurs on fracture, calcite vein present but not extensively mineralized.	4481		305'	310'	5'	0.05	0.50	0.60	0.05
			4482		310'	315'	5'	0.06	0.11	0.35	0.03
311'	317'2"	MAGNETIC IRON BEARING SECTION	4483		315'	316'8"	1'8"	0.02	0.33	0.84	0.07
		312'2" Zinc on fracture 30° to c.a.									
		312'9'-316'6" Specks of disseminated copper									
		315'8" Zinc fractures 60° to c.a., 33° to c.a.									
		315'10" Zinc on fractures 58° to c.a.									
		316'2" Minor copper on fracture 33° to c.a.									
317'2"	317'6"	SYENITE VEIN									

EM. 6-1168

LANGRIDGE LIMITED,

M. Prevost

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

CLAIM NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-25 SHEET NO. 9

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
317'6"	329'	ALTERED DARK GREEN MAFIC ROCK TYPE, weakly carbonated garnets / 1% 321' - 322'6" Magnetite section, iron bearing									
329'	330'5"	ZINC MINERALIZATION / 1%									
330'5"	347'2"	TUFFACEOUS: Siliceous grey white rock type, green hue given by partial epidotization. Pyrite / 1% 336'8" Pyrite banding 22° to c.a. 345'6" Minor lead mineralization / / 1% 347'4" Zinc blebs in calcite vein									
347'2"	349'6"	TALCOSE epidotized rock type.									
349'6"	350'	Angular non-mineralized breccia.									
350'	352'6"	Strongly carbonated dark green rock type, bright emerald green carbonates 70%; pyrite 1-2%; Mafics(micas) 30%.									
352'6"	365'	TUFFACEOUS Silicified, epidotized rock type exhibiting a quartzitic texture. Fine grained (1 mm) grey white rock possessing a green hue. Minor pyrite. 361' Syenite vein 15° to c.a. 362'5" Syenitic section banding 30° to c.a.									
365'	368'5"	Dark green soft micaceous rock type (chlorite) altered basic volcanic									
368'5"	369'6"	SYENITE VEIN containing magnetite. Upper contact 55° to c.a.									
369'6"	370'6"	EPIDOTIZED SECTION									
	370'6"	END OF HOLE									

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY: Marshall Boston Iron Mines Limited

HOLE NO. 72-26 LENGTH 152'3"

LOCATION North Grid, 18 W L42 W 11+13 S

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH 140° DIP -45°

STARTED August 4, 1972 FINISHED August 7, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°				
151	-45°				

HOLE NO. 72-26 SHEET NO. 1

REMARKS: Minor amounts of lead, zinc mineralizatia found in core

LOGGED BY N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0'	7'5"	CASING										
7'5"	22'7"	DIORITIC ROCK TYPE: Differentiated from syenite stock consists of (A) white feldspars 25%; (B) Mafics (green black micas and pyroxene) 74%; (C) Pyrite 1%. The rock contains sections that are completely mafic. Mafics break with stubby, hackly fracture, some 90° cleavage.										
22'7"	28'	SYENITE: Pink; mineralogy consists of the following: Feldspars - 90%; 1-4mm Mica - 5-10%; 1-4mm Quartz - ∠ 1%; Euhedral zoned feldspars contained in green micaeous matrix.										
28'	46'7"	MICAEOUS ROCK TYPE: Dark green brown in colour, micas green black in colour. Epidote 1%.										
46'7"	47'7"	SYENITE SECTION.										
47'7"	53'9"	AS DESCRIBED ABOVE 28' - 46'7"										
53'9"	56'7"	GREY WHITE SILICIFIED SECTION										
56'7"	57'6"	SYENITE: Pink; Mineralogy consists of the following: Quartz - 1%; Feldspar - 90%; Maficas (mica) - 5 - 10%. Subhedral to euhedral crystals , grain size 1 - 3 mm. Lower contact 30° to c.a.										
57'6"	63'4"	SILICEOUS SECTION: Feldspathic, grey white in colour, breaks with conchoidal to hackly fracture, disseminated euhedral pyrite 5%.										

N. Brewster

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. 72-25 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
63'4"	82'2"	ALTERED VOLCANIC: Mineralogy consists of the following: Mineral — % — Grain Size Biotite — 10-15 — 3mm Granular translucent bright green (epidote) — 25 — 1mm Subhedral salmon pink orthoclase — 60 — 3mm Quartz — ∠ 1 The epidote forms around but independent of the othoclase. Hackly breakage. The micaceous nature of the rock increases dramatically within one foot of the lower contact.										
82'2"	85'8"	SILICEOUS ROCK TYPE: Dense non-crystalline rock breaks with conchoidal fracture, flaky texture, euhedral pyrite ∠ 1% disseminated throughout the rock, grey white in colour, with tints of green and pink, is predominantly feldspathic. Epidote: 1 - 2% Upper contact 10° to c.a.										
85'8"	88'	Mixed section of mafic and syenitic rock 86'10" - 87'2" - syenite vein Syenite blebs contained in the mafic rock similar to that described in 7'5" - 22'7".										

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

72-26 3

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. _____ SHEET NO. _____

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS % Cu	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/TON Ag
83'	89'6"	TUFFACEOUS Quartzose feldspathic section, grey white in colour..Slight 1% disseminated pyrite; Minor ∠ 1% pyroxene.									
89'6"	102'4"	AS DESCRIBED IN SECTION 7'5" - 22'7". Lower portion 100'-102'4" dominantly micaceous, green black in colour. Unidentified bright green granular matrix mineral 5%.									
102'4"	103'1"	SYENITE PINK	4484		102'4"	105'	2'8"	Nil	0.38	0.20	Nil
103'1"	105'	Rock type similar to that described 89'6" - 102'4" ∠∠ 1% Pb, Zn mineralization.									
105'	108'10"	BRECCIATED SECTION: Dense deep red fine grained angular to sub-angular syenite fragments contained in a matrix of dull green talcose to epidotized material. Sparse ∠ 1% lead, zinc mineralization occurs in fractures and bounding the fragment outlines. 107'7": Zinc contained in fracture 30° to c.a.	4485		105'	110'	5'	0.01	0.23	0.64	Nil
108'10"	121'10"	TUFFACEOUS: Siliceous feldspathic section varying in colour from grey white to pink. The rock breaks with conchoidal fracture and exhibits a sub-granular texture.	4486		110'	113'2"	3'2"	0.02	0.42	1.43	0.01
		108'10" - 112'4" Brecciated section containing lead, zinc mineralization. The mineralization occurs in fractures :	4487		113'2"	115'	1'10"	0.02	0.04	0.09	Nil
			4488		115'	120'	5'	0.01	0.03	0.09	Nil
		109' parallel to c.a. 109'7" 90° to c.a. 110'9" 27° to c.a.	4489		120'	125'	5'	0.02	0.09	0.23	Trace

N. Brewster

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. 72-26 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS % Cu	ASSAYS % Pb	ASSAYS XXXXXX OZ/TON Zn	ASSAYS OZ/TON Ag
108'10"	121'10"	continued						Cu	Pb	Zn	Ag
		110' Zinc occurs outlining fragment boundaries and also occurs within the boundaries of very fine grained syenite which frequently occurs in existing fractures.									
		111'8" - 115'9" Barren section									
		115'9" - 116'5" Zinc mineralization similar to that described above.									
		117'5" Vein filled with light lime green fibrous radiating mineral (90° cleavage) pyroxene. 44° to c.a.									
		116'5" - 121'10" No mineralization									
121'10"	128'	Fine grained // 1 mm sugary textured mafic rock type. Light minerals feldspar 20% Dark minerals 50%	4490		125'	130'	5'	0.02	0.09	0.18	Nil
		122'11" Zinc in fracture 90° to c.a. Pyrite 1%.									
123'	131'10"	SILICEOUS feldspathic sub-granular tuffaceous rock type, grey white in colour. Finely disseminated pyrite 1%.	4491		130'	135'	5'	0.04	0.10	0.19	Nil
		129' Zinc in pyroxenite vein 42° to c.a.									
		129'3" Zinc specks in fracture 20° to c.a.									
		129'9" Syenite vein 55° to c.a.									
					Average	Assay	- Zn	0.39%	across	32'8"	
							- Pb	0.15%	across	32'8"	

M. Brewster

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. 72-26 SHEET NO. 5

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
131'10"	136'7"	SIMILAR TO SECTION 121'10" - 128' 132'1" - Zinc in fracture 40° to c.a. 132'2" Copper in fracture 132'5" Speck of copper 133'1" - 133'6" Syenite vein										
136'7"	137'6"	SYENITE VEIN										
137'6"	145'	SILICEOUS Feldspathic rock type. Dense sub-granular finely disseminated pyrite 1%.										
145'	148'8"	SYENITIC ROCK TYPE: Gneissic sub-crystalline mafics 15%; quartz / 1% 148'1" Speck of copper on broken face.										
148'8"	151'	Dark green coloured rock. Mineralogy consists of the following: Mineral — % — Grain Size Green black micas 60-70 3 mm white & pink feldspar 10 1 mm Light green mineral epidote 20 1 mm										
151'	151'7"	SYENITE VEIN										
151'7"	152'3"	AS ABOVE 145' - 148'8"										
152'3"		END OF HOLE										

EM. 6-1168

LANGRIDGE LIMITED.

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
HOLE NO. 72-G-1 LENGTH 205'10"
LOCATION McCrea Group
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 282° DIP -60°
STARTED August 12, 1972 FINISHED August 14, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0'	-60°				
204'	-55°				

HOLE NO. 72-G-1 SHEET NO. 1
REMARKS Samples taken showed low values in gold
LOGGED BY M. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0'	4'	CASING										
4'	55'8"	Dark green black mafic rock type. Fine grained / 1mm basaltic volcanic blebs of calcite contained in rock, calcite veinlets 1mm also occur. Mineralogy consists of green feldspars and green black mafics.										
		10'9" - 13'7" Carbonate section, effervesces in dilute HCl. The effervesence causd by a multitude of minute carbonate bearing fractures present in the rock. The rock is grey black in colour, sugary textured. Pyrite 1%.										
		10'11" Calcite filled fracture carrying pyrite 40° to c.a.										
55'8"	56'11"	CARBONATED SECTION: Fine grained dark green black mafic volcanic effervesence due to minute carbonate bearing fractures. Pyrite 1%. Disseminated magnetite 1-2% (1mm size, triangular crystal form).										
56'11"	83'9"	MAFIC VOLCANIC (gabbroic) fine grained 1mm. The majority of the rock is composed of sodic to calcic feldspars(white to green in colour) and dark green black mafic minerals (pyroxene). The rock is partially epidotized, varying in percentage from 5 to 25%.										
83'9"	104'4"	CARBONATED SECTION, rock effervesces in dilute HCl, calcite blebs also present throughout this section.										
		84'6" banding 40° to c.a.										
		94'1" calcite filled fracture 60° to c.a.										
		94'4" fracture 30° to c.a.										
		90'11" banding 35° to c.a.										

EM. 6-1168
LANGRIDGE LIMITED,

M. Brewster

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

CLAIM NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-3-1 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON Au	ASSAYS OZ/TON Ag
83'9"	to 104'4" continued									Au	Ag
		The rock is a dense fine grained / 1mm-1cm grey black mafic volcanic. The carbonization is due to minute carbonate filled shears cutting the rock. In addition free calcite blebs dot the core surface (5%), these are possibly fillings of voids caused by gas bubbles. The outlines of the calcite blebs vary from ovoid to irregular. Banding due to slight development of schistosity is visible. Euhedral pyrite /1%									
104'4"	105'3"	SCHISTOSE silicified section, sulphides 1-2% pyrite present	4492		104'5"	105'4"	11'5"			0.13	0.40
104'5"	105'3"	Vein quartz section, streaks of grey black material present appear to fill strips created in white chalcedonic angular quartz inclusions occurring in the quartz vein. Sulphides / 1% Chalcopyrite / 1%									
105'3"	105'11.5"	SILICIFIED SECTION, dense grey to grey white colour, black streaks (possible tellurides) run through rock. Sulphides / 1%	4493 4494		105'4" 106'	106' 107'	8" 1'			0.005 0.22	0.04 0.13
105'11.5"	109'5.5"	CONTORTED BANDED SECTION. Silicified rock type (highly contorted black bands present in addition to more massive sulphides which have been drawn into bands 107'4" sulphides 108' - 108'4" quartz section	4495 4496 4497		107' 108' 108'9"	108' 108'9" 109'5.5"	1' 9" 8'5"			0.005 0.005 Nil	0.06 0.03 0.06
109'5.5"	120'	AS DESCRIBED IN SECTION 83'11" - 104'4"									

EM. 6-1168

LANGRIDGE LIMITED,

M. Brunetta

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-G-1 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON Au	ASSAYS OZ/TON Ag
175' to	190'	continued								Au	Ag
		187'3" - 187'8" Silicified section									
		189' - 190' Quartzose section, herringbone pattern present in the quartz, sulphides crosscut the quartz.	4499		189'7"	190'	5"			0.005	0.06
190'	196'6"	190' - 190'5.5" Siliceous section, herringbone pattern present in the quartz which carries sulphides									
		190'5.5"-190'9" Quartz vein lower contact 40° to c.a.	4500		190'	191'1"	1'1"			0.05	0.04
		190'9" -191'1" Siliceous section carrying sulphides Herringbone pattern in quartz, sulphides cross cut the quartz.									
			202E		191'1"	192'1"	1'			Nil	Nil
		192' - 194'1.5" Siliceous section banded	203E		192'1"	193'1"	1'			Nil	0.03
		193'5" banding 90° to c.a.									
		195'8" - 195'10" Silicified section, herringbone pattern present	204E		193'1"	194'1"	1'			Nil	0.02
196' 6"	199' 1"	Somewhat siliceous looking section banding 60' to c.a.									
199' 1"	199'10"	Silicified calcified section, lensoid shaped fragments give a prominent banded nature 35° to c.a.			Average Assay	104'4.5" -		109'5.5"		.083	0.13
		199'8" Calcite vein (1mm) 45° to c.a. cut and offset by set of fractures				188'10" -		194'1"		.017	.021
200'	205'10"	200' -200'5.5" Herringbone pattern evident in core									
		200'3" -200'5.5" Siliceous section lower fracture contact 26° to c.a.									
		200'11.5"-201'1.5" Siliceous band fractured lower contact 123° to c.a. / 1% pyrite present									
		203'10"-205'10" Dark fine grained massive banded rock similar to 196'6"-199'1"									
		205'10" END OF HOLE									

EM. 6-1168

LANGRIDGE LIMITED,

N. Brewster

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

CLAIM NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-G-1 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON Au	ASSAYS OZ/TON Ag
120'	125'	As described in section 56' - 83'9"									
125'	175'	Dense fine grained green black mafic volcanic, individual crystals not identifiable, breaks with subconchoidal fracture. Most dominant material is the dark green matrix, calcic feldspars. The rock is frequently cut by calcite, leaving fractures at various angles to the c.a. The rock also possesses a somewhat slaty look. Pyrite / 1%.									
		144' - 145'5" light spruce green feldspathic matrix exposing biotite phenocrysts 10%, grain size 1 - 5 mm.									
		Upper contact 20° to c.a.									
		Lower contact 10° to c.a.									
168'10"	170'10"	As above 144' - 145'5" appears to be tuffaceous, mica content 15%, schistose app. 52° to c.a.,,lineation of micas and feldspathic matrix.									
		Euhedral pyrite / 1%; Lower contact 54° to c.a.									
		167'1" Banding 45° to c.a.									
175'	190'	Rock type as described above	4498		188'10"	189'7"	9"			0.005	Trace
		180'8" - 180'10" quartz bleb									
		181'2" - 181'4" quartz bleb									
		181'10"- 182'1" quartz section. veinlet 45° to c.a.									
		- 182'4" two parallel silicified fractures 45° to c.a. 1 mm									
		182'10"- 182'11" silicified section									
		- 183'8" silicified band 32° to c.a.									

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY: Marshall Boston Iron Mines Limited
HOLE NO.: 72-G-2 LENGTH: 236'
LOCATION: McCrea Group
LATITUDE: _____ DEPARTURE: _____
ELEVATION: _____ AZIMUTH: 282° DIP: -50°
STARTED: August 16/72 FINISHED: August 17/72

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50°				
236	-48°				

HOLE NO. 72-G-2 SHEET NO. 1

REMARKS: Four samples taken in this hole

LOGGED BY: N. Brewster

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS % Cu	ASSAYS OZ/TON Au	ASSAYS OZ/TON Ag
0	2'9"	CASING									
2'9"	4'8"	MAFIC VOLCANIC dark green fine grained rock type, distinct lower contact 60° to c.a.									
4'8"	75'	PORPHYRY grey green white in colour; mineralogy consists of the following:									
		Mineral — % — Grain Size									
		Mafic phenocrysts micas 10 1-5 mm									
		Quartz 1									
		Epidote / 2									
		Zoned feldspars 30 2-3 mm									
		The above minerals are contained in a siliceous feldspathic matrix.									
		16'9.5" - 16'11" quartz calcite vein rusty									
		19'1" - 19'3" quartz vein									
		23'8.5" - 23'10.5" shattered quartz-calcite vein	208E		40'	41'	1'			Nil	Nil
		44'4" - 45'8.5" quartz-calcite vein. Pyrite 1% possible cu / /1% occurring as green black tarnish.									
		73'7" chalcopyrite speck in fracture									

N. Brewster

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

CLAIM NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. ~~72-G-2~~ SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
									CU	Au	Ag
75'	81'5"	AS DESCRIBED ABOVE									
81'5"	122'9"	TRANSITION ZONE: The rock still possesses a somewhat porphyry nature but various changes are evident due to assimilation of the host rock.									
		81'5" - 85' zone of talcose development with carbonate sections									
		82'5" - 82'10" carbonatite intrusion, contacts 65° to c.a., dark in colour, effervesces with HCl									
		83'7" - 84' As above (82'5.5"-82'10") contacts 63° to c.a.									
		93' - 95' As above (82'5.2"-82'10") upper contact 65° to c.a.									
		107' 108'7" Talcose section lime green in colour, easily cut with knife, contains quartz-calcite blebs and pyrite blebs. Upper contact 57° to c.a.									
		112'7" - 113'9" Section containing quartz veins, the largest being from 112'7"-112'-10.", and minor amounts of sulphides 1%.	205E		112'7"	113'8"	1'1"		0.01	Nil	Trace
			206E		119'5"	120'	7"		0.02	0.005	0.02
		113'3.5" Speck of chalcopyrite	207E		120'	121'2.5"	1'2.5"		0.01	Nil	0.01
122'9"	155'	FINE GRAINED GREY GREEN BASIC VOLCANIC. Mineralogy consists of grey and green calcic feldspars 60%; black mafic minerals (pyroxene) 40%; scattered pyrite 1% upper contact 40° to c.a.									
		133'10" speck of chalcopyrite 136'3.5" speck of chalcopyrite 148'10.5" speck of chalcopyrite } ∠ 1%									

EM. 6-1168

LANGRIDGE LIMITED,

M. Lavoie

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

CLAIM NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. ~~72-3-2~~ SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
155'	165'	AS ABOVE: Mineralogy as described above except for the presence of epidote 10%, grain size has increased to 4 mm. 152'10" speck of chalcopyrite in quartz vein, 40° to c.a. 153'4" chalcopyrite specks at juncture of two quartz veins 33° to c.a. and 90° to c.a. 157'3" speck of chalcopyrite in quartz calcite vein 50° to c.a. 162' speck of chalcopyrite in quartz vein 40° to c.a.										
165'	167'7"	Grain size decreases gradually from 165'-166'. Rock type as described above 122'9"-155'										
167'7"	179'	CARBONATITE (effervesces in HCl) dark grey green rock consisting of - Mineral — % — Grain Size Micas (phenocrysts) 15 2-4 mm Quartz eyes 1 Pyrite 1 Mafics 15 The above minerals contained in a grey white feldspathic appearing matrix. The effervesence appears due to carbonate material outlining the mineral boundaries.										

EM. 6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

[redacted] NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-G-2 SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
179'	180'8"	LAMPROPHYRE DYKE: dark green black coloured rock, Biotite, mica phenocrysts (2-3mm) in green micaceous matrix. Carbonated. Upper contact 50° to c.a. Lower contact 70° to c.a.										
180'8"	190'	AS DESCRIBED ABOVE 122'9"-155'										
190'	236'	CARBONATED ROCK TYPE, vigorously effervesces in dilute HCl										
		Fine grained / 1mm green coloured rock has a shiny subslaty sheen on broken surface. The matrix consists of green minerals and black mafics.										
		198' - 198'3" compound quartz calcite vein, the calcite occurring on the external margins. 40° to c.a.										
		202'7" banding 45° to c.a.										
		195' - 198' numerous small 1mm calcite veins cut core predominantly 51° to c.a.										
		198'9.5" - 199'1" quartz calcite vein, pyrite /1% quartz slightly fractured.										
		219'5"-221'2.5" quartzose calcitic section containing sulphide mineralization which occurs both finely disseminated / 1mm and as blebs.										
		219'10" shearing in quartz 72° to c.a. evident as dark stripes on core surface.										
		220'4" speck of chalcopyrite										

EM.6-1168

LANGRIDGE LIMITED,

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Loston Iron Mines Limited

NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-G-2 SHEET NO. 5

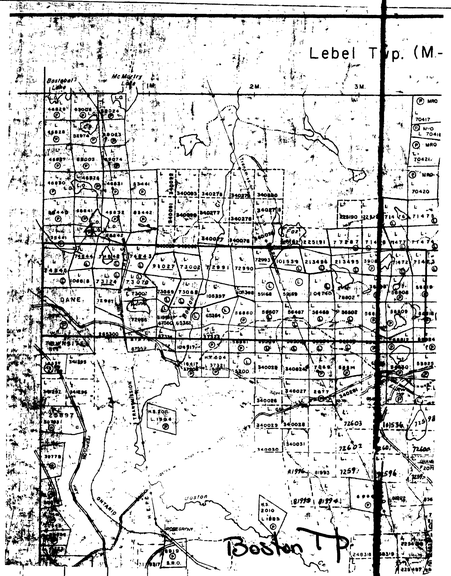
REMARKS _____

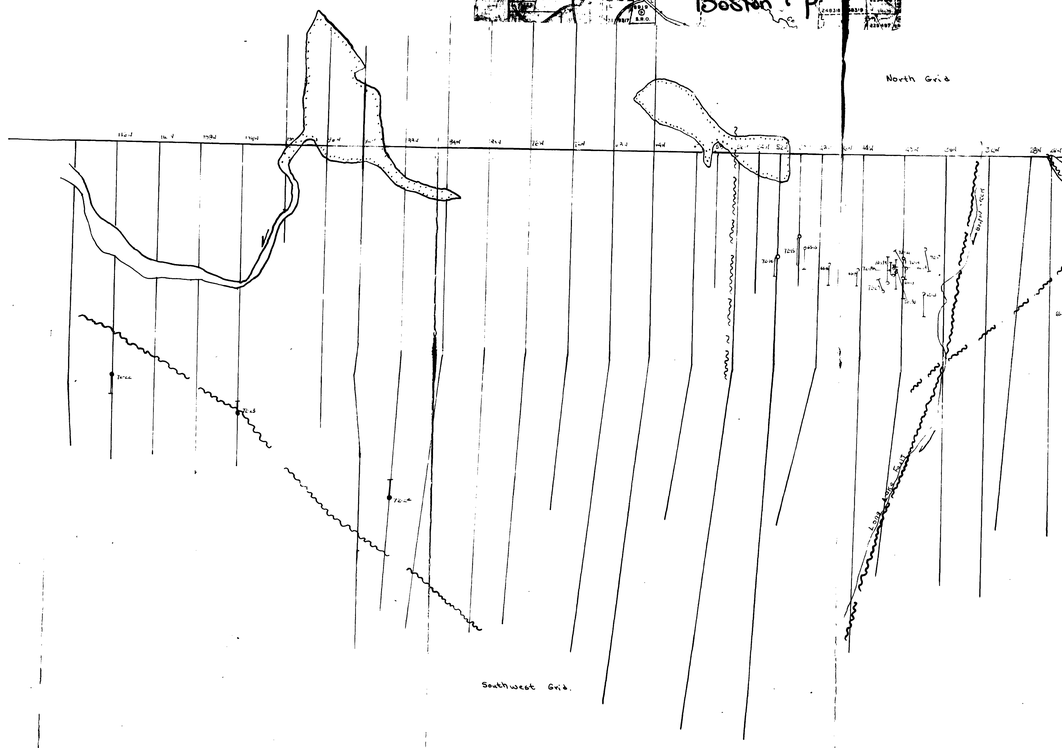
LOGGED BY _____

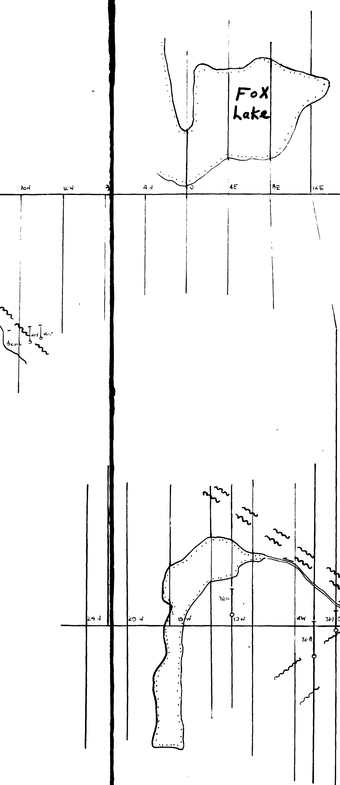
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
190' to 236'		continued										
		220' - 220'4.5" quartz, this section does not react with HCl										
		220'11"-221'2" finely disseminated sulphides										
		223'6" -225' several calcite veinlets (1mm) predominantly 90° to c.a.										
236'		236' END OF HOLE										

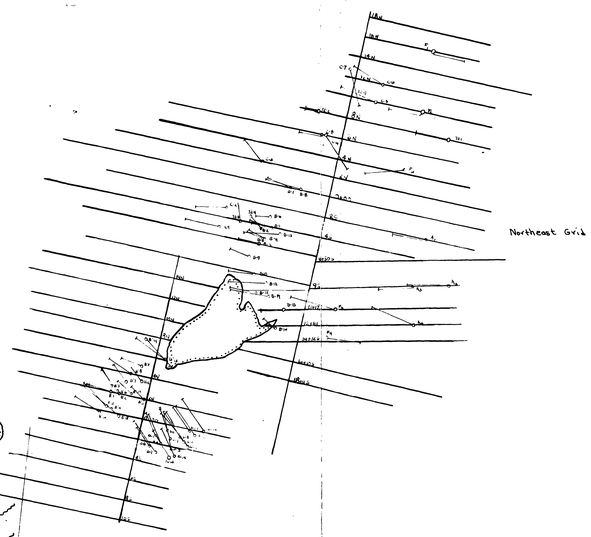
EM. 6-1168

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Symbols

- Lake
- Fault (real, interpreted)
- Diamond Drill Hole

COMPOSITE GRID MAP WITH DIAMOND DRILL HOLE SITES

MATACHEWAN CONSOLIDATED MINES LTD.

AND

FENNAT NORTH LTD.

Scale 1" = 200'

August, 1972

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