



32D04SW0355 27 BOSTON

010

Diamond Drilling

Township OV BOSTON

Report No: 27

Work performed by: MARSHALL IRON MINES LTD.

Claim No	Hole No	Footage	Date	Note
L 72991	65-1	287.9'	Apr/65	
	65-2	153'	Apr/65	
	65-13	260.5'	June/65	
	65-18	249'	July/65	
	65-20	204'	July/65	
	65-21	127'	Aug/65	
	65-22	177.8'	Aug/65	
	65-23	138'	Aug/65	
	72-20	239'	Mar/72	
	72-21	300'	Mar/72	
L 72990	65-3	514'	Apr-May/65	
	72-12	279'	Feb/72	
L 73002	65-14	201'	June/65	
	65-15	267'	June/65	
	65-16	270'	June/65	
	65-17	226'	June/65	
	65-19	293.6'	July/65	
	72-14	294'	Feb/72	
	72-15	368.3'	Feb/72	
	72-16	262'2"	Mar/72	
	72-17	307'9"	Mar/72	(1)
	72-18	53'5"	Mar/72	
	72-18A	150'	Mar/72	
	72-18B	271'	Mar/72	
	72-19	27'9"	Mar/72	
	72-19A	330'	Mar/72	
72-25	370'6"	Aug/72	(2)	
72-26	152'3"	Aug/72	(2)	

28

Notes:

- (1) 243/72
- (2) 252/72

DIAMOND DRILL RECORD

PROPERTY MARSHALL BOSTON IRON MINES LIMITED

HOLE NO. 65 - 1

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED April 21, 1965
 LATITUDE Line 13 W, 4.5' DATUM _____ COMPLETED April 25, 1965
 DEPARTURE South of Base Line BEARING S 5° W ULTIMATE DEPTH 287.9'
 ELEVATION _____ DIP 0-45°, 285°-43° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %
0	Collar				
4.0	Casing				
4.0- 38.9	Basic lava				
	4.0-25.0 - some tuffaceous horizons, feldspathic, scattered crystals of corroded feldspar, moderate amount of epidotization, some streaks of syenitic alteration, some fine magnetite disseminations, very sparse				
	25.0-38.9 - alteration becomes stronger toward 38.9, more syenitic streaks and splashes, some development of chlorite				
38.9- 47.6	Magnetite Zone - basic lava, strong alteration, chlorite and hornblende, some weak disseminations of pyrite associated with the magnetite, magnetite in form of blebs and disseminations forming 20 to 30 per cent of core. Some foliation in core lies at 5° to 10° to core				
47.6- 59.0	Basic lava - some syenitic alteration, weak foliation at 40°, weak disseminations of magnetite, weakly feldspathic, weak to moderate chloritic and hornblende alteration, very weak pyrite disseminations				

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

DRILLED BY Heath & Sherwood

SIGNED

D. E. Birks
 D. E. Birks, P. Eng.

DIAMOND DRILL RECORD

PROPERTY MARSHALL BOSTON IRON MINES LIMITED

HOLE NO. 65 - 1

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

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %
59.0- 85.0	Magnetite Zone - occasional streaks of syenitic material $\frac{1}{2}$ inch, strongly altered - epidote, chlorite, hornblende, some foliation or banding at 40° , weak disseminations of pyrite and weak pyrite in discontinued streaks with foliation, magnetite in disseminated form occupying up to 40% of core and averaging about 20%				
	47.7-48.8 - syenitic intrusion at 60° to core				
	84.0-85.0 - stronger streaky pyrite, about 10%				
85.0-104.0	Basic Lava - feldspathic in part, some weak foliation at 40° , chlorite and hornblende in local developments				
104.0-198.2	Magnetite Zone - some tendency towards alternate siliceous and chlorite-rich banding, dominant foliation at 40° but can vary to 0° , magnetite largely in banded form and forming 20% to 65% of core, possible average of 30%				
	124.0-125.0 - Lost core				
127	127.5-128.5 - Lost core				
	130.8-131.7 - Lost core				
	141.6-142.8 - Lost core				
	146.5-149.5 - Lost core				

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

DRILLED BY _____

Heath & Sherwood

SIGNED _____

D. K. Burke
D. K. Burke, P. Eng.

DIAMOND DRILL RECORD

PROPERTY MARSHALL BOSTON IRON MINES LIMITED **HOLE NO.** 65-1

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

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	104.0-146.0 - core is typically massive light green to grey lava with a dominant soft green and grey-blue alteration product						
	Magnetite is typically in streaky form but also occurs as massive crystalline blebs						
	- is generally crystalline and fairly coarse						
	- foliation 10° to 60° to core						
	155.0-157.3 - Lost core						
	160.5-161.9 - Lost core						
	161.9-180.7 - core becomes more siliceous with streaky chlorite, epidote and hornblende alternating with streaky crystalline magnetite, magnetite forms 20% of core						
	180.7-198.2 - dominantly massive dark green lava with chlorite, epidote and hornblende alteration, some portions of streaky siliceous. In massive variety magnetite very strong, running up to 70% magnetite, general average of 40%						
198.2-217.3	Light grey-green lava, foliation at 40°, 4" of carbonate breccia at 198.2, 30% to core						
	Weakly foliated at 40°, feldspathic zone towards 215.0						

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

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SIGNED *D. K. Burke*
 D. K. Burke, P. Eng.

DIAMOND DRILL RECORD

PROPERTY

MARSHALL BOSTON IRON MINES LIMITED

HOLE NO. 65-1

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

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
217.3-287.9	Tuffaceous Lava - foliation at 45°-50°, much streaky pyrite, occasional narrow section carrying low magnetite				
	217.3-225.0 - strong, streaky pyrite				
	225.0-249.5 - massive, grey, medium grain lava, occasional narrow section with weak magnetite, occasional streaky pyrite, occasional 1/2" syenite streaks				
	249.5-258.4 - tuffaceous, bedding at 60°, syenite streaks				
	258.4-264.0 - weak to moderate shearing at 50° to core, syenitic alteration				
	264.0-287.9 - massive, occasional areas of weak shearing, medium grain, strongly chloritic, narrow streaks of syenitic material				
	END OF HOLE				

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DIAMOND DRILL RECORD

PROPERTY MARSHALL BOSTON IRON MINES LIMITED HOLE NO. 65-1

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

DEPTH FEET	XXXXXXXXXX Sample Location	SAMPLE NO.	WIDTH OF SAMPLE	% Fe Soluble	SLUDGE GOLD †
	39.0 - 49.0	5701	10	27.1	
	49.0 - 59.0				
	59.0 - 69.0	5703	10	19.6	
	69.0 - 79.0	5704	10	28.9	
	79.0 - 89.0	5705	10	22.8	
	89.0 - 99.0				
	99.0 - 109.0	5707	10	32.1	
	109.0 - 119.0	5708	10	35.3	
	119.0 - 129.0	5709	10	36.7	
	129.0 - 139.0	5710	10	34.0	
	139.0 - 149.0	5711	10	37.7	
	149.0 - 159.0	5712	10	37.8	
	159.0 - 169.0	5713	10	28.0	
	169.0 - 179.0	5714	10	29.4	
	179.0 - 189.0	5715	10	32.6	
	189.0 - 199.0	5716	10	38.3	

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

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DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED

HOLE NO. 65 - 2

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED April 26, 1965

LATITUDE Line 13 W, 266.5'

DATUM _____

COMPLETED April 29, 1965

DEPARTURE South of Base line

BEARING N 5° E

ULTIMATE DEPTH 153.0'

ELEVATION _____

DIP 0° - 43°, 150° - 41°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0	Collar				
20.0	Casing				
20.0-48.3	Syenitized lava, strongly siliceous, streaks of cubic pyrite				
	28.0-30.0 - amphibolitized, sheared at 70° to core and hornblende, strong disseminations of cubic pyrite				
	30.0-48.3 - broken core, siliceous, much chlorite and hornblende, strong disseminations of cubic pyrite				
48.3-64.2	Siliceous Fe - bands of magnetite with disseminated pyrite, 1/8" to 1/2" in width at 10° to core, Fe forms 5-10% of core, strong chlorite and hornblende in seams				
64.2-153.0	Greenstone, strongly altered, amphibolitized, much disseminated pyrite, syenite streaks				
	64.2-75.0 - very strongly altered, broken core				
	75.0-136.0 - moderately amphibolitized, even grain, granular in places, syenite streaks				
	136.0-153.0 - strong shearing or squeezing at 5° to 50° to core				
	END OF HOLE				

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

Heath & Sherwood Ltd.

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SIGNED _____

D. R. Burke

DIAMOND DRILL RECORD

(27)

PROPERTY BOSTON MARSHALL IRON MINES LIMITED

HOLE NO. 5 - 3

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED April 30, 1965

LATITUDE Line 11E, 138.5° North

DATUM _____

COMPLETED May 8, 1965

DEPARTURE of Base line

BEARING S 5° W

ULTIMATE DEPTH 514.0'

ELEVATION _____

DIP 0°-45°, 514°-41°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0	Collar				
10.0	Casing				
10-15.3	Syenodiorite - foliation at 50°, syenitic impregnations, chlorite and hornblende				
15.3-20.0	Syenite - red, medium grain, hornblende flecks.				
20.0-41.0	Syenodiorite - largely syenite and hornblende, foliation at 40° to core				
41.0-41.5	Greenstone - highly altered, some magnetite streaks				
	42.0-48.0 - strong chlorite, streaks of magnetite forming 10% of core				
	48.0-52.5 - siliceous, chloritic, foliation at 40°, numerous syenitic zones and streaks				
	52.5-55.5 - chloritic, streaks of magnetite at low angle to core				
	55.5-61.5 - strongly chloritic, syenitic streaks.				
(1.5-306.0)	Syenodiorite				
	(1.5-98.3 - massive, chloritic in places but largely siliceous, syenitic streaks				
	98.3-107.0 - much amphibole, streaks of magnetite, streaks of syenitic material about 15% Fe				
	107.0-120.5 - syenitic, occasional heavy chloritic streaks.				

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D. K. Burke

DIAMOND DRILL RECORD

PROPERTY _____

BONNIE MARSHALL IRON MINES LIMITED

HOLE NO. 65 - 3

SHEET NUMBER _____ SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	occasional magnetic streaks, 5% Fe				
120.5-132.0	arenitic, occasional bands of strong chlorite with magnetite				
132.1-137.5	chloritic zone with moderate to strong magnetite				
137.5-142.0	chloritic, siliceous, occasional magnetite				
142.0-153.4	specular iron fragments				
153.4-245.0	strongly altered, much blotchy hornblende and chlorite, strongly siliceous				
245.0-247.0	fine grain zone at 10° to core				
247.0-275.0	strongly altered, hornblende, very siliceous, many narrow dykes of coarse pyrite				
306.0-375.5	highly foliated greenstone, fine to medium grain, portions are strongly altered with development of hornblende and chlorite, occasional pyrite streak				
375.5-382.0	Magnetite Zone - steady magnetite at 10° to 30° forms some 15% of core, strong pyrite				
382.0-412.3	highly foliated greenstone - fine grain, altered, numerous narrow pyritic streaks				
412.3-436.8	Magnetic Zone - strongly chloritic, dominant foliation at				

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SIGNED D. [Signature]

DIAMOND DRILL RECORD

BOSTON MARSHALL IRON MINES LIMITED

65 - 3

PROPERTY _____

HOLE NO. _____

3

SHEET NUMBER _____ SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	SLUDGE GOLD g		
	30° to core, other foliation from 10° to 50°, about 30% Fe, moderate dissemination of pyrite						
430.8-498.0	Amphibolitized greenstone - fine grain, foliation at 30°, occasional streak or narrow zone of strong magnetite						
	473.0-474.0 - streaky magnetite at 10°						
	481.5-498.0 - occasional narrow zones of streaky magnetite and pyrite						
498.0-514.0	Syenitized lava - foliation at 50°, silicified, patchy hornblende and chlorite, cyanite streaks						
	END OF HOLE						

Heath & Sherwood Ltd.

DRILLED BY _____

SIGNED _____ *N.K. Purto*

~~L.P.~~ 72991

~~L.P.~~ 72990

D.H.
65-3

Base Line

0662-3*
770' 1/2
72990

MARSHALL BOSTON IRON MINES LTD.
BOSTON & OTTO TRUSTS.

LOCATION OF D.H. 65-3

Scale: 1" = 100'

Date: Aug 13, 1965

J.K. BURKE PENG.

DIAMOND DRILL RECORD

BOSTON MARSHALL IRON MINES LIMITED

PROPERTY _____

HOLE NO. 65 - 13

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED June 15, 1965

LATITUDE 45.5' South of Base Line

DATUM _____

COMPLETED June 20, 1965

DEPARTURE on Line 28W

BEARING S 5° W

ULTIMATE DEPTH _____

ELEVATION _____

DIP 40°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %
0.0	Collar				
18.0	Casing				
18.0-86.0	Tuffaceous greenstone, foliation at varying angles to core				
	18.0-36.5 - foliation at 30° to 60°				
	36.5-67.0 - strongly altered, much epidote, feldspathic streaks, foliation at 40°				
	67.0-69.0 - syenite				
86.0-99.0	Altered diorite				
	86.0-91.0 - weak shearing at 50°, occasional syenite streaks, occasional narrow band carrying magnetite and chalcopyrite				
	91.0-96.5 - moderate to coarse grain, weak to moderate disseminated magnetite, occasional chalcopyrite				
	96.5-99.0 - strong streaks and disseminations of magnetite, weak chalcopyrite in streaks and disseminations, dissemination of pyrite with minor chalcopyrite				
99.0-109.0	Greenstone				
109.0-134.9	Magnetite Zone - some in form of disseminations in chloritized, amphibolitized greenstone, other in alternate bands with a syenitic material				
	109.0-119.0 - both disseminated and banded, about 40% Fe				
	119.0-122.0 - largely disseminated, foliation at 60°, 20% Fe				
	122.0-125.0 - streaks of syenite, strong disseminations magnetite in altered tuffaceous greenstone, about 40% Fe				
	125.0-126.7 - tuffaceous greenstone, foliation at 45°				

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SIGNED *D.K. Barré*

DIAMOND DRILL RECORD

PROPERTY

BOSTON MARSHALL IRON MINES LIMITED

HOLE NO. 65 - 13

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

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	126.7-129.0 - tuffaceous greenstone containing bands of disseminated magnetite, 15% Fe				
	129.0-132.0 - tuffaceous greenstone, occasional streak of magnetite				
	132.0-134.9 - altered zone -(chlorite and amphibolite)- strong magnetite disseminations, 30% Fe				
134.9-150.6	Tuffaceous greenstone, foliation at 65°, occasional band containing disseminated magnetite, in part vesicular, 12" dyke of syenite at 147.0				
150.6-254.3	Magnetite Zone - largely disseminated and streaky magnetite in a chloritized, amphibolitized greenstone, some streaks of syenitic material gives a banded appearance				
	150.6-154.0 - magnetite, disseminated and streaky, about 40% Fe				
	154.0-155.0 - amphibolitized greenstone, 6" syenite band				
	155.0-161.9 - strong, streaky and disseminated magnetite, about 40%				
	161.9-166.5 - tuffaceous greenstone, foliation at 50°				
	166.5-172.0 - strong streaky magnetite in amphibolitized greenstone, 40% Fe				
	172.0-174.0 - amphibolitized greenstone, syenitized				
	174.6-186.5 - tuffaceous greenstone, foliation at 20° to 40°, weak disseminated magnetite, 10% Fe				
	186.5-196.2 - tuffaceous greenstone, some strong alteration, strong magnetite as streaks and disseminations				
	196.2-210.0 - tuffaceous greenstone, 12" of amphibolite alteration with disseminated magnetite at 204.0				

Heath & Sherwood Ltd.

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SIGNED _____

D.K. Burke

[Signature]

DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED HOLE NO. 65 - 13

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

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	210.0-212.2 - tuffaceous greenstone, weak disseminations of magnetite, foliation at 40°, 10% Fe						
	212.2-222.7 - strong streaky magnetite in altered greenstone, chlorite and amphibolite, occasional specks of pyrite, 35% Fe						
	222.7-226.0 - strong magnetite, streaks and disseminations, moderate pyrite, amphibolitized greenstone, 35% Fe						
	226.0-254.3 - amphibolitized greenstone, occasional siliceous band, strong streaky magnetite, 35% Fe						
254.3-260.5	Tuffaceous greenstone, foliation at 40°, 8" band of amphibolitized greenstone with strong magnetite at 257.5						
	END OF HOLE						

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

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SIGNED *D. E. Burke*

DIAMOND DRILL RECORD

BOSTON MARSHALL IRON MINES LIMITED

65 - 14

PROPERTY _____

HOLE NO. _____

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED June 21, 1965

LATITUDE 116° North of Base Line
on 34+40W

DATUM _____

COMPLETED June 25, 1965

DEPARTURE _____

BEARING S 5° W

ULTIMATE DEPTH _____

ELEVATION _____

DIP 43 3/4°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %
0.0	Collar				
9.0	Casing				
9.0-101.5	Tuffaceous greenstone, vesicular in part, occasional bands of weak disseminated magnetite, foliation at 70°				
	9.0-11.0 - foliation at 70°, vesicular				
	11.0-21.0 - occasional 6" to 8" band carrying streaks and disseminations of magnetite				
	21.0-30.0 - micaceous tuff, foliation at 70°				
	30.0-53.0 - tuffaceous greenstone, foliation at 70°, occasional bands strong in epidote, occasional 6" to 12" zone of disseminated magnetite				
	53.0-55.0 - chlorite and amphibolite alteration, moderate disseminated magnetite				
	55.0-63.0 - foliation at 60°, occasional weak magnetite				
	63.0-67.0 - weak disseminated magnetite, less than 10%				
	67.0-73.5 - foliation at 65°, occasional epidote streak				
	73.5-83.5 - contains bands of moderate magnetite, 4" to 6" widths, less than 10% Fe				
	83.5-86.7 - moderate magnetite in streaks and disseminations, 20% Fe				
	86.7-101.5 - foliation at 70°, micaceous in part, occasional narrow horizon of disseminated magnetite				
101.5-160.0	Magnetite Zone				
	101.5-118.0 - altered greenstone, chlorite and amphibolite, streaks and disseminations of magnetite, 35% Fe				
	118.0-129.0 - alternate bands of altered greenstone, silica and magnetite, 35% Fe				

Heath & Sherwood Ltd.

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SIGNED _____

D. K. Burke
[Signature]

DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED

HOLE NO. 65 - 14

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	129.0-141.8 - tuffaceous greenstone, foliation at 70°			less than 5%	Fe		
	141.8-160.0 - bands of altered greenstone, silica and pyrite, 25% Fe			magnetite, moderate			
160.0-201.0	Granodiorite, in part gneissic, largely composed of chlorite, feldspar and minor blue quartz, some porphyritic zones						
END OF HOLE							

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

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SIGNED D. G. Purton

DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED

HOLE NO. 65 - 15

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED June 26, 1965
 LATITUDE 335° North of Base Line DATUM _____ COMPLETED June 29, 1965
 DEPARTURE _____ BEARING S 5° W ULTIMATE DEPTH _____
 ELEVATION _____ DIP 40° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0	Collar				
13.5	Casing				
13.5-18.0	Magnetite Zone - altered greenstone, streaks and disseminations of magnetite, strong pyrrhotite, minor pyrite				
18.0-19.8	Syenite				
19.8-54.0	Greenstone, foliation at 45°, speckled				
	19.8-21.2 - moderate mineralization (pyrrhotite-pyrite), disseminations of magnetite				
	21.2-54.0 - numerous white flecks in dark grey to green groundmass, occasional narrow bands containing medium disseminated magnetite, disseminated pyrrhotite and pyrite, occasional narrow bands of amphibolite				
54.0-57.6	Amphibolite - disseminated magnetite				
57.6-65.4	Flecked greenstone, occasional syenitic streak, very weak streaky pyrrhotite and pyrite				
65.4-72.0	Altered amphibolite, strong disseminations and streaks of pyrite and pyrrhotite, medium magnetite				
72.0-73.7	Syenite				
73.7-96.0	Altered amphibolite, occasional inclusions of flecked greenstone and dikelets of syenite, much pyrite-pyrrhotite, moderate magnetite in streaks and disseminations				
96.0-117.2	Flecked greenstone, foliation at 70°, scattered streaks and disseminations of pyrite-pyrrhotite, in part siliceous				

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

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DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED

HOLE NO. 65 - 15

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

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
117.2-136.5	Altered amphibolite - streaky and disseminated magnetite, 30% and pyrrhotite at 117.2 to 121.0			Fe, strong pyrite			
136.5-138.5	Lamprophyre, syenite streaks						
138.5-175.2	Fleeked greenstone - occasional narrow amphibolite dyke with foliation at 80°			disseminated magnetite,			
175.2-189.5	Diorite - occasional narrow zone of disseminated magnetite						
189.5-210.7	Greenstone - foliation at 80°						
210.7-227.0	Magnetite zone - altered greenstone with narrow sections containing magnetite			almost massive			
	210.7-212.5 - strong streaky magnetite						
	221.5-227.0 - strong streaky magnetite						
227.0-236.5	Greenstone, occasional diorite dikelets, foliation at 70°						
236.5-249.0	Fe Zone - amphibolitized greenstone with magnetite streaks						
	236.5-249.0 - occasional streak of disseminated magnetite						
	240.0-243.0 - strong streaky magnetite						
	243.0-249.0 - occasional streaks of magnetite						
249.0-252.5	Greenstone, foliation at 45°						
252.5-267.0	Lamprophyre						
	END OF HOLE						

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

Heath & Sherwood Ltd.

DRILLED BY _____

SIGNED _____

D. A. Burke

DIAMOND DRILL RECORD

BOSTON MARSHALL IRON MINES LIMITED

65 - 16

PROPERTY _____

HOLE NO. _____

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED June 30, 1965
 LATITUDE 198° North of Base line DATUM _____ COMPLETED July 6, 1965
on Line 37W BEARING S 5° W ULTIMATE DEPTH _____
 DEPARTURE _____ DIP 43° PROPOSED DEPTH _____
 ELEVATION _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0	Collar				
8.0	Casing				
8.0-18.6	Greenstone, silicified, foliation at 60°, occasional syenitic veinlet				
18.6-21.0	Diorite, disseminated weak pyrrhotite				
21.0-32.5	Flecked greenstone, feldspathic streaks and 4" dikes at 70° to core				
32.5-41.3	Greenstone, in part dioritic				
	32.5-34.0 - dioritic, streaks of magnetite, pyrite				
	34.0-41.3 - foliation at 60°, feldspathic streaks, coarsely crystalline at 41				
41.3-50.5	Diorite porphyry, finely crystalline, occasional zone of large phenocryst				
	42.1-43.1 - greenstone, streaky magnetite forms 40%, streaks of pyrite with minor chalcopyrite				
50.5-62.4	Greenstone, occasional narrow diorite dike				
	50.5-52.5 - weak to moderate disseminated magnetite				
	52.5-62.4 - 2" of disseminated magnetite at 55, 6" of disseminated magnetite at 60				
62.4-65.0	Syenodiorite				
65.0-75.0	Greenstone, narrow dioritic intrusions, occasional zones with magnetite, foliation at 80°				
	73.0-75.0 - streaks and disseminations of magnetite, 30% Fe, streaky pyrite				
75.0-87.3	Syenodiorite, 12" greenstone inclusion with streaky magnetite at 84.0				
87.3-117.5	Greenstone, occasional zone of disseminated magnetite, foliation at 75°, amphibolitized in narrow zones				
	87.0-89.0 - strong, streaky magnetite, 40% Fe				

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

DRILLED BY Heath & Sherwood Ltd.

SIGNED _____

D. A. Burke

DIAMOND DRILL RECORD

PROPERTY

BOSTON MARSHALL IRON MINES LIMITED

HOLE NO.

65 - 16

SHEET NUMBER

2

SECTION FROM

TO

STARTED

LATITUDE

DATUM

COMPLETED

DEPARTURE

BEARING

ULTIMATE DEPTH

ELEVATION

DIP

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	89.0-117.5 - occasional narrow zone of weak disseminated magnetite				
117.5-125.5	Magnetite Zone - foliation at 80°				
	117.5-120.0 - streaky magnetite, 35% Fe				
	120.0-125.5 - weak streaky magnetite, 10% Fe				
125.5-165.0	Tuffaceous greenstone, acidic, foliation at 70°, occasional narrow zone of disseminated magnetite				
165.0-171.7	Syenodiorite				
171.7-181.9	Syenite, coarse grain, pink				
181.9-194.5	Syenodiorite				
194.5-203.0	Altered diorite, occasional narrow zone of disseminated magnetite				
203.0-213.6	Syenodiorite				
213.6-264.0	Magnetite Zone, streaks of magnetite with minor pyrite at 60° to core.				
	213.6-216.5 - moderate streaky magnetite, 35% Fe				
	216.5-221.8 - tuffaceous greenstone, foliation at 75°, occasional disseminated magnetite				
	221.8-257.2 - tuffaceous greenstone, streaks magnetite at 75°, 30% Fe medium pyrite and minor chalcopyrite, pyrrhotite from 244 to 250				
	257.2-259.3 - Syenodiorite				
	259.3-264.0 - streaky magnetite at 85°, 30% Fe, occasional pyrite				
264.0-270.0	Tuffaceous greenstone, foliation at 80°				
	END OF HOLE				

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

DRILLED BY

Heath & Sherwood Ltd.

SIGNED

D. E. Burke

DIAMOND DRILL RECORD

BOSTON MARSHALL IRON MINES LIMITED

65 - 17

PROPERTY _____

HOLE NO. _____

SHEET NUMBER _____

1

SECTION FROM _____

TO _____

STARTED _____

July 7, 1965

LATITUDE _____

156° North of Base Line

DATUM _____

COMPLETED _____

July 9, 1965

DEPARTURE _____

on Line 31W

BEARING _____

S 5° W

ULTIMATE DEPTH _____

ELEVATION _____

DIP _____

45°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0	Collar				
15.0	Casing				
15.0-17.0	Amphibolitized greenstone, altered diorite, very weak chalcopyrite, pyrrhotite and pyrite				
17.0-26.2	Syenitized greenstone, occasional weak magnetite zone, occasional streaks and specks of pyrite				
26.2-29.4	Amphibolite, occasional specks pyrite and pyrrhotite				
29.4-48.0	Syenitized greenstone, red feldspathic streaks, occasional specks pyrite				
48.0-67.4	Syenodiorite				
67.4-79.0	Felsite, weak disseminations of pyrite and an unknown light grey metallic, numerous streaks of epidote containing inergrowth of unknown mineral light grey in colour, prominent cleavage. Specimen from 73 for examination				
79.0-99.2	Syenodiorite, some tuffaceous greenstone inclusions				
	79.0-82.5 - fine grain, streaks and disseminations of pyrite with minor pyrrhotite				
	82.5-89.1 - medium grain, disseminated pyrite, occasional epidote streak with associated grey mineral				
	89.1-90.0 - tuffaceous greenstone inclusion, disseminated pyrite				
	90.0-99.2 - medium grain, occasional fine pyrite				
99.2-107.7	Greenstone, tuffaceous, foliation at 20°. moderate pyrite and pyrrhotite in streaks and disseminations				
107.7-140.0	Syenodiorite, zoned feldspars, some weak shearing at 25°, occasional epidote streak,				

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

DRILLED BY _____

Heath & Sherwood Ltd.

SIGNED _____

D. V. Burke

DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED HOLE NO. 65 - 17

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	occasional streak of coarse red syenite, weak disseminated pyrite, pyrrhotite				
107.7-127.0	occasional red syenite				
127.0-133.0	much red syenite, weak disseminated pyrite				
133.0-140.0	possibly altered tuffaceous greenstone, foliation at 40°, epidote streaks, weak disseminated pyrite				
140.0-164.5	Diorite, occasional pyrite, occasional syenite dyke				
164.5-180.5	Syenodiorite, contains dikelets of coarse syenite				
180.5-226.0	Diorite, occasional inclusion of tuffaceous greenstone				
	END OF HOLE				

DRILLED BY Heath & Sherwood Ltd.

SIGNED D. J. Burke

DIAMOND DRILL RECORD

BOSTON MARSHALL IRON MINES LIMITED

65 - 18

PROPERTY

1

HOLE NO.

July 13, 1965

SHEET NUMBER

566' North of Base Line

SECTION FROM

TO

STARTED

July 16, 1965

LATITUDE

on line 22W

DATUM

S 5° W

COMPLETED

DEPARTURE

BEARING

43 1/2°

ULTIMATE DEPTH

ELEVATION

DIP

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD †
0.0	Cellar				
16.0	Casing				
16.0-57.9	Greenstone, in part tuffaceous				
	16.0-25.0 - medium to strong disseminations of pyrite with minor pyrrhotite and chalcopyrite, some weak shearing at 45°				
	25.0-35.0 - medium to strong pyrite, felsitic streaks, foliation at 60°, in part chloritic				
	35.0-45.0 - as above				
	45.0-57.9 - foliation at 50°, weak pyrite				
57.9-232.1	Magnetite Zone				
	57.9-66.0 - strong streaky magnetite in chloritic greenstone, strong pyrite, 35% Fe				
	66.0-73.5 - vesicular lava, siliceous, some epidote, weak disseminated pyrite, very weak disseminated magnetite				
	73.5-79.5 - strong, streaky magnetite, foliation at 65°, 40% Fe				
	79.5-89.5 - greenstone, (diorite?), altered, zones of epidote, occasional magnetite				
	89.5-98.0 - strong streaky magnetite in chloritic greenstone, foliation at 50°, 40% Fe				
	98.0-102.2 - chloritic greenstone, very weak disseminated magnetite, moderate shearing, foliation at 40°, diorite from 100.5 to 102.2, weak magnetite				
	102.2-104.2 - acid lava, foliation at 40°, very weak disseminated pyrite				
	104.2-123.7 - strong streaky magnetite in diorite or amphibolitized greenstone, foliation at 70°, 35% Fe				

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

Heath & Sherwood Ltd.

DRILLED BY

SIGNED

D. K. Burke

DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED

HOLE NO. 65 - 18

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

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %
	123.7-127.3 - acid lava, streaks amphibolite containing disseminated magnetite				
	127.3-135.0 - strong streaky magnetite in amphibolitized greenstone, 40% Fe				
	135.0-138.4 - amphibolitized greenstone, shearing at 40°, weak magnetite				
	138.4-162.0 - amphibolite, strong streaky magnetite at 40°, 35% Fe, intrusive contact against acid lava at 80°				
	162.0-172.0 - acid lava containing 2" to 12" dykes of magnetite bearing amphibolite				
	172.0-175.0 - amphibolite, weak streaky magnetite				
	175.0-180.0 - altered greenstone, streaky magnetite at 30° to 40°, much pyrite, 30% Fe				
	180.0-232.1 - amphibolitized greenstone, strong streaky magnetite at 40° to 60°, 35% Fe, narrow 2" dykes of amphibolite, lower contact at 80° to core				
232.1-249.0	Vesicular lava, porphyritized, foliation at 70°, occasional syenite streak				
	END OF HOLE				

DRILLED BY Heath & Sherwood Ltd.

SIGNED _____

D. J. Burke

DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED 65 - 10
PROPERITY HOLE NO. 62 - 19

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED July 19, 1965
 LATITUDE 96° North of Base Line DATUM _____ COMPLETED July 25, 1965
 DEPARTURE on Line 30W BEARING S 5° W ULTIMATE DEPTH _____
 ELEVATION _____ DIP 45 3/4° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0	Collar				
6.5	Casing				
6.5-19.2	Amphibolite, medium grain, occasional feldspar phenocrysts, some zones of weak magnetite				
	13.0-19.2 - disseminated magnetite, 5 to 10% Fe				
19.2-23.5	Greenstone, narrow dykes amphibolite carrying weak magnetite				
23.5-28.0	Silicified zone, foliation at 60°				
28.0-29.0	Syenite, coarse grain				
29.0-58.5	Amphibolite weak pyrite in disseminations and streaks, occasional weak magnetite				
	35.0-37.0 - breccia zone				
	37.0-49.4 - medium grain, occasional weak magnetite disseminations				
	49.4-50.6 - strong magnetite disseminations in narrow amphibolite streaks, 25% Fe				
	50.6-54.5 - very weak magnetite, syenitic streaks				
	54.5-55.5 - moderate disseminated magnetite, 20% Fe				
	55.5-58.5 - moderate pyrite in streaks and disseminations, greenstone fragments?, very weak magnetite, foliation at 60°				
58.5-62.0	Diorite, coarse grain, massive, gradation to syenodiorite, some magnetite at contacts				
62.0-63.5	Contact zone, weak shearing at 45°, carbonate streaks, weak pyrite, narrow section of strong magnetite				
63.5-78.5	Amphibolite, occasional narrow section of disseminated magnetite, narrow shears				

[Handwritten Signature]
N.M.P.

DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED

HOLE NO. 65 - 19

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

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %
78.5-102.0	Amphibolite				
	78.5-87.5 - medium to coarse grain, occasional very weak disseminated magnetite				
	87.5-93.0 - patches and streaks of medium magnetite				
	93.0-102.0 - coarse grain, occasional weak magnetite				
102.0-130.0	Tuffaceous greenstone, foliation at 50°, occasional zones containing disseminations of strong fine pyrite				
130.0-142.5	Syenodiorite and diorite, narrow dikelets of coarse syenite				
142.5-150.5	Greenstone, in part amphibolitized, occasional narrow band of weak magnetite				
150.5-154.2	Porphyritized, amphibolitized greenstone				
154.2-158.0	Magnetite zone, strong disseminated magnetite and pyrite, 25% Fe				
158.0-204.0	Sediment? or Tuff, predominantly dark grey, medium grain, containing zones or layers of light green, fine grain material at 30° to core				
204.0-217.7	Syenite, pink, coarse grain, contact at 30°				
217.7-241.8	Magnetite zone				
	217.7-222.5 - dark green, moderate magnetite streaks at 45°, 20% Fe				
	222.5-223.5 - tuff, foliation at 50°				
	223.5-225.0 - gray-green, weak magnetite streaks and disseminations				
	225.0-227.0 - syenitic streaks and patches, strong magnetite, 30% Fe				
	227.0-228.0 - tuffaceous, foliation at 70°				
	228.0-231.5 - strong streaky magnetite at 70°, 35% Fe				
	231.5-237.0 - tuffaceous, foliation at 60°, occasional streak of coarse syenite				

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

Heath & Sherwood Ltd.

DRILLED BY _____

SIGNED _____ *D. A. Burke*

DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED HOLE NO. (1) - 19

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

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD †
	237.0-241.8 - amphibolite, strong magnetite, streaks and disseminations				
241.8-243.5	Feldspathic greenstone, possibly an intrusive diorite				
243.5-245.3	Tuffaceous greenstone, alternate dark grey and light green, foliation at 20°				
245.3-249.7	Syenite, pink, coarse grain				
247.7-249.8	Amphibolite, weak magnetite				
249.8-251.3	Tuffaceous greenstone, foliation at 30°				
251.3-283.7	Magnetite zone, tuff with amphibolitic streaks carrying magnetite				
	251.3-257.5 - streaky magnetite at 40° to core, 30% Fe				
	257.5-262.5 - tuffaceous, dark and light bands, foliation at 30°, weak magnetite				
	262.5-264.5 - moderate streaky magnetite at 40° to core, 25% Fe				
	264.5-272.0 - tuffaceous, foliation at 45°				
	272.0-275.0 - fine grain, amphibolitized strong streaky magnetite at 40°, 35% Fe				
	275.0-278.8 - tuffaceous, siliceous, weak disseminated magnetite				
	278.8-283.7 - amphibolitic, dark green, moderate to strong streaky and disseminated magnetite, 30% Fe				
283.7-293.6	Tuffaceous greenstone, alternate bands of dark grey and light green, foliation at 20° to 30°, some narrow streaks of coarse pink syenite				
	END OF HOLE				

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

DRILLED BY Heath & Sherwood Ltd.

SIGNED D. E. Burke

DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED

HOLE NO. 65 - 20

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED July 27, 1965

LATITUDE 328' South of Base Line
on Line 18W

DATUM _____

COMPLETED July 31, 1965

DEPARTURE _____

BEARING S 5° W

ULTIMATE DEPTH _____

ELEVATION _____

DIP 42°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0	Collar				
8.0	Casing				
8.0-19.8	Syenodiorite, greenstone inclusions				
19.8-23.0	Greenstone, amphibolitized, syenodiorite streaks				
23.0-24.6	Amphibolite				
24.6-53.0	Syenodiorite, numerous greenstone inclusions, strong narrow shear at 53' at 25° to core				
53.0-90.5	Amphibolitized greenstone, syenodiorite streaks, foliation at 20°, micaceous				
90.5-108.0	Syenodiorite, greenstone inclusions				
108.0-124.0	Greenstone, foliation at 20°, numerous syenodiorite streaks				
124.0-149.0	Magnetite Zone				
	124.0-135.7 - greenstone, syenodiorite streaks, weak streaks magnetite, foliation at 20°				
	135.7-137.8 - strong, streaky magnetite, very weak pyrite, 40% Fe				
	137.8-139.8 - amphibolitized, coarse grain, weak magnetite				
	139.8-140.7 - strong streaky magnetite, foliation at 25°				
	140.7-144.0 - streaks syenodiorite, in part feldspathic, very weak magnetite				
	144.0-149.0 - amphibolitized, streaks of strong magnetite				
149.0-154.0	Tuffaceous greenstone, syenodiorite streaks				
154.0-174.0	Syenodiorite, numerous greenstone inclusions				
174.0-189.0	Tuffaceous greenstone, foliation at 20°				
189.0-204.0	Syenodiorite, numerous greenstone inclusions				
	END OF HOLE				

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

DRILLED BY Heath & Sherwood Ltd.

SIGNED _____

D. K. Brock

DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED

HOLE NO. 65 - 21

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED August 2, 1965

LATITUDE 152' North of Base Line
on Line 17W

DATUM _____

COMPLETED August 5, 1965

DEPARTURE _____

BEARING N 5° W

ULTIMATE DEPTH _____

ELEVATION _____

DIP 45°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %
0.0	Collar				
10.0	Casing				
10.0-37.5	Syenodiorite, occasional inclusions of amphibolitized greenstone				
34.0-35.0	small greenstone inclusions carrying moderate magnetite				
37.5-49.0	Tuffaceous greenstone, foliation at 0° to 20° to core, numerous dikelets of syenodiorite				
49.0-61.3	Syenodiorite				
61.3-127.0	Tuffaceous greenstone, in part micaceous, foliation at 10° to 40°, occasional streak of syenodiorite, 3" of strong magnetite at 66.0				
75.0-92.5	occasional narrow zones of weak magnetite associated with amphibolite				
92.5-93.5	weak to moderate magnetite				
93.5-100.0	syenitized, numerous streaks of aplitic material				
100.0-127.0	foliation at 0° to 10°, syenitized				
	END OF HOLE				

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

DRILLED BY Heath & Sherwood Ltd.

SIGNED D. A. Burke

DIAMOND DRILL RECORD

BOSTON MARSHALL IRON MINES LIMITED

65 - 22

PROPERTY

HOLE NO.

1

August 6, 1965

SHEET NUMBER

SECTION FROM _____ TO _____

STARTED

321' North of Base Line

August 10, 1965

LATITUDE

DATUM

COMPLETED

on 17+47 West

S 29° E

DEPARTURE

BEARING

ULTIMATE DEPTH

45°

ELEVATION

DIP

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0	Collar				
35.0	Casing				
35.0-41.0	Greenstone, in part amphibolitized, syenodiorite streaks				
41.0-47.7	Magnetite Zone, strong streaky magnetite, foliation at 40°				
47.7-55.0	Syenodiorite				
55.0-60.8	Amphibolitized greenstone				
60.8-74.0	Shear Zone, chloritic, foliation at 5° to core				
74.0-89.0	Tuffaceous greenstone, grey to apple green, moderately sheared at 5°, chloritic				
89.0-142.8	Magnetite Zone				
	89.0-90.8 - strong streaky magnetite at 10° to core				
	90.8-93.5 - greenstone, weak magnetite, moderate shear at 10°				
	93.5-104.0 - amphibolitized, strong streaky magnetite at 10°, 30% Fe				
	104.0-116.0 - very strong streaky magnetite at 5° to 20° to core, 40% Fe				
	116.0-136.5 - amphibolitized greenstone, strong streaky magnetite at 20°, 35% Fe				
	136.5-137.9 - garnetiferous?, brecciated, very weak magnetite				
	137.9-142.8 - strong streaky magnetite at 10°				
142.8-162.9	Tuffaceous greenstone, syenite streaks, some weak disseminated magnetite				
162.9-172.2	Magnetite Zone, tuffaceous greenstone, foliation at 20°, scattered streaks of magnetite at 5° to 20° to core, 20% Fe				
172.2-177.8	Greenstone, foliation at 20°, silicified in part, micaceous				
	END OF HOLE				

Heath & Sherwood Ltd.

DRILLED BY

SIGNED

D. E. Burke

DIAMOND DRILL RECORD

PROPERTY BOSTON MARSHALL IRON MINES LIMITED

HOLE NO. 65 - 23

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED August 12, 1965

LATITUDE 482' South of Base Line

DATUM _____

COMPLETED August 14, 1965

DEPARTURE on Line 18W

BEARING N 5° W

ULTIMATE DEPTH _____

ELEVATION _____

DIP 45 1/2°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0	Collar				
9.0	Casing				
9.0-15.0	Syenodiorite, greenstone inclusions, foliation at 5° to 20°				
15.0-31.7	Greenstone, streaks of syenodiorite				
31.7-37.8	Magnetite Zone				
31.7-37.8	31.7-37.8 - greenstone, strong disseminated pyrite, pyrrhotite and magnetite				
37.8-62.0	Tuffaceous greenstone, streaks of syenodiorite, moderate disseminated pyrite, pyrrhotite, very weak magnetite, foliation at 20°				
62.0-90.5	Magnetite Zone				
62.0-66.0	62.0-66.0 - amphibolite, strong disseminated magnetite with pyrite and pyrrhotite				
66.0-67.5	66.0-67.5 - tuffaceous greenstone, foliation at 20°, moderate streaky magnetite				
67.5-76.0	67.5-76.0 - amphibolite, moderate disseminated magnetite, 30% Fe				
76.0-85.0	76.0-85.0 - breccia zone, greenstone fragments, disseminated pyrite, weak magnetite, some amphibolite intrusions with strong magnetite				
85.0-87.8	85.0-87.8 - amphibolitized greenstone, strong streaky magnetite at 0° to 10°				
87.8-89.2	87.8-89.2 - syenodiorite, intrusive contact at 30°				
89.2-90.5	89.2-90.5 - amphibolitized greenstone, strong, streaky magnetite, foliation at 30°				
90.5-97.0	Tuffaceous greenstone, foliation at 45°, numerous syenitic streaks				
97.0-98.1	Magnetite Zone, amphibolitized greenstone, strong streaky magnetite, foliation at 40°				
98.1-115.0	Tuffaceous greenstone, foliation at 30° to 40°, syenitized, numerous streaks of syenodiorite				

115.0-138.0 N.M.P. TORONTO - STOCK FORM NO. 501 REV. 12/51 Syenodiorite

DRILLED BY Heath & Sherwood Ltd. **END OF HOLE**

SIGNED _____

[Handwritten Signature]
D. K. Dyke

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72-12 LENGTH 279'
 LOCATION L 22 W 14+00 S North grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -40°
 STARTED Feb. 17, 1972 FINISHED Feb. 20, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
	-40°				

HOLE NO. 72-12 SHEET NO. 1

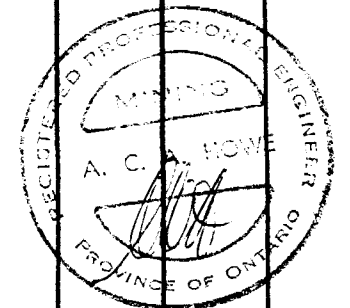
REMARKS _____
 Objective: To test coincident
 EM and Geochemical anomalies

LOGGED BY N. Brewster

EM. 6-1168

LANGRIDGE LIMITED.

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	20'	<u>Casing</u>										
20'	20'5"	<u>Massive Magnetite</u>										
20'5"	25'	<u>Basalt:</u> Chloritized, saussuritized, amphiboles visible										
25'	30'	<u>Iron Formation:</u> non banded, non massive magnetite contained in quartzose matrix magnetite 30 - 40% quartz 30% pyrite 5% chlorites 20%										
30'	33'1"	<u>Basalt:</u> Altered to chlorite; talc on fracture planes 50° to C.A.										
33'1"	35'	<u>Iron Zone:</u> As Above										
35'	44'8"	<u>Basalt:</u> As above										
44'8"	45'	<u>Iron Zone:</u> As above										
45'	50'	<u>Basalt:</u> As above										
50'	75'	<u>Iron section:</u> Portions of the rock exhibit a completely chloritic matrix; whereas other sections show the more normal quartzose matrix. Pyrite is present in varying amounts from 0 - 5% throughout the section.										

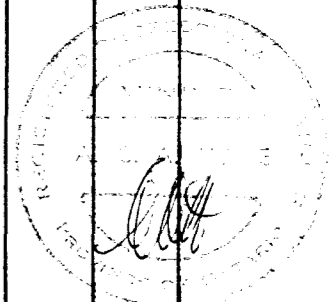


DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 12 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
	73'5"	Minor chalcopryite \angle 1% intermixed with magnetite Chalcopryite speck									
	74'2"										
75'	95'	Soft metamorphosed rock type that tends to be either chlorite or biotite.									
	83'	Where harder siliceous (gneissic) sections occur they tend to be pyritized, containing up to 20%. Overall sulphides scarce, \angle 1%									
	88'5"										
95'	100'	Iron similar to 50' - 75'									
100'	150'	Alternating iron zones and barren sections. The iron sections are similar to those described above. Barren sections consist of the following rock types - (1) syenite - (2) chlorite - (3) feldspar porphyry									
100'	102'	-)									
102'4"	104'1")									
105'7"	106'4")									
108'3"	109'2")									
110'	111')									
122'3"	122'5")									
125'	127'2")									
129'4"	132'9")									
135'6"	137')									
138'6"	139'5")									
144'	146'2")									
150'	166'8"	Volcanic chlorite rock type									
166'8"	197'9"	<u>Basic Syenite:</u> upper contact gradational, lower contact at 60° to C.A.									



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 12

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
197'9"	199'2"	Chlorite volcanic									
199'2"	221'2"	Dioritic Rock Type: exhibiting gradational contacts. Biotite minerals 70% Saussuritized feldsapr 30%									
221'2"	224'4"	Alteration section appears to be same rock type.									
224'4"	279'	Diorite: <u>Minerals</u> <u>Grain Size</u> white to green calcic feldspars 1mm micas 1mm scattered pyrite / 1% 1mm Mineral grains tend to exhibit anhedral form. The rock possesses a flaky texture. Where fractures (45° to C.A.) occur, the surrounding rock has been bleached to a lime green colour. Talc and hematite occur on fracture planes. 253' Gneissoid character 43° to C.A. 263'8" Gneissoid character 50° to C.A. 266' Biotite, chlorite and talc minerals constitute 98% of rock mass. Minor pyrite and feldspar. 271'7" Gneissoid character 46° to C.A. 273' Gneissoid character 50° to C.A. 274'6" Chlorite rock pyrite / 1%									
279'		END OF HOLE									

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72-14 LENGTH 294'
 LOCATION L 40 W 10 + 00 S North grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -40
 STARTED Feb. 24, 1972 FINISHED Feb. 27, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
294'	-35°				

HOLE NO. 72-14 SHEET NO. 1

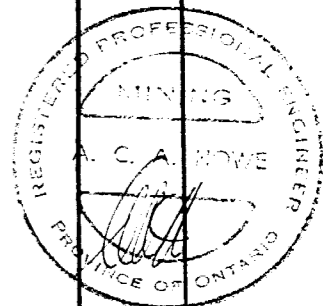
REMARKS Hole stopped due to caving
 (objective: to test EM & Geochem anomalies)

LOGGED BY N. Brewster

FOOTAGE	DESCRIPTION	SAMPLE			ASSAYS						
		NO.	% SULPHIDES	FOOTAGE	FOOTAGE	%	%	OZ/TON	OZ/TON		
FROM	TO			FROM	TO	TOTAL					
0	13'10"										
		<u>Casing</u>									
13'10"	17'8"	Altered Volcanic: migmatitic (?), green in colour, chlorite rich.									
	14'2.5"	Fracture 5mm wide carrying galena 45° to C.A.									
17'8"	27'8"	<u>Syenite</u> : red colour, anhedral crystals Orthoclase 95% Pyroxene & chloride 4.5% Epidote / 1% In some sections mafics increase to 70% of rock									
27'8"	48'6"	<u>Andesitic Rock</u> : A dense, hard sugary-textured rock, green in colour. Mineralogy consists of feldspar and biotite (grain size / 1mm) occasionally intersected by larger grained 1 - 2 mm sections with similar mineralogy.									
	44'6"	Saussuritized, serpentized section light green in colour, sub-gneissoid texture 135° to C.A. Pyrite 1 - 2%									
48'6"	50'6"	<u>Syenite</u> : (As above, 17'8" - 27'8")									
50'6"	100'	<u>Andesite</u> : (As above) Dark minerals biotite) 60% chlorite) Light minerals Feldspars 90%									
		Grain size / 1 mm.									

EM. 6-1168

LANGRIDGE LIMITED.



DIAMOND DRILL RECORD

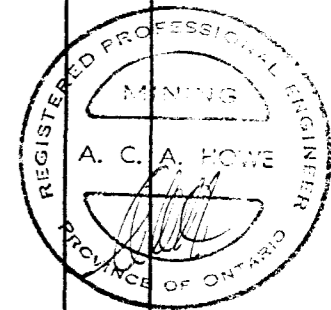
NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 14

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	OZ/TON	OZ
					FROM	TO	TOTAL					
	54'1"	Veinlets of lead and sphalerite contained in fractures	82		53'	55'	2'	0.53	0.03	0.30	0.01	
	64'11"	Veinlet of sphalerite 1 mm wide										
	65'	Pyrite 4%										
	65'9"	Speck of chalcopryrite in syenite band 45° to C.A.	81		66'	70'	4'		0.02	0.06	0.02	
	71'3"	Veinlets and blebs of galena occur in shattered portion of rock	80		70'	72'8"	2'8"	1.56	0.01	1.41	0.05	
	72'7"	Veinlet of galena 45° to C.A.										
72'7"	77'	Ground core	83		73'	78'	5'		0.07	0.12	0.22	Nil
78'9"	80'9"	Ground core										
81'7"	82'9"	Ground core										
	82'3"	Syenite band 1 cm wide, sharp contacts 90° to C.A.										
82'9"	90'	Rock has gabbroic mineralogy, however cannot distinguish contacts, grain size \angle 1mm										
90'	100'	As above 50 - 100										
	95'8"	Speck of chalcopryrite in alteration halo around syenite band 50° to C.A.										
100'	105'	As above										
105'	117'7"	<u>Biotite Rich Section:</u> green black in colour. Lamprophyre										
117'7"	121'8"	Syenite										
121'8"	125'8"	<u>Olivine basaltic rock type;</u> rare amgydules (calcite filled)										
	125'	speck of chalcopryrite. Contact 110° to C.A.										
125'8"	127'8"	Syenite										
127'8"	128'10"	As above 121'8" - 125'5" pyrite 1%										
128'10"	130'8"	Syenite										
130'8"	135'8"	As above. Minor chalcopryrite \angle 1%										
135'8"	137'5"	Porphyritic syenite, subhedral feldspar phenocrysts 5mm - 2cm.										

Sludge

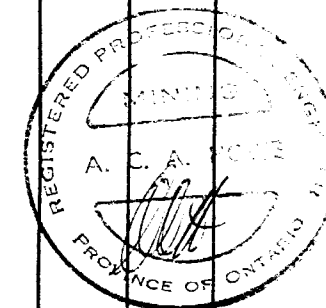


DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 14 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
137'5"	162'3"	Andesitic rock type, fine grained lmm equigranular texture mafics 50-90% Feldspars 35% banded pyrrhotite 10-15%								
	161'	Banding 45° to C.A.								
162'3"	163'2"	Basic syenite								
163'2"	175'	As above sulphides 5%								
		Tuff, some sections of the rock resemble a lamprophyre								
	172'9"	Minor, less than 1% chalcopryrite on fractures and disseminated rock; fractures 90% to C.A.								
	172'	Syenite 2 inches wide 45° to C.A. Offshoots 11° to C.A.								
	175'	Banding 45° to C.A.								
175'	180'	As above								
179'2"	179'9"	Syenite Band lower contact 36° to C.A.								
180'	226'	Andesitic to Dacitic tuff, grey in colour, certain sections appear more siliceous								
	187'5.5"	Fracture 50° to C.A. pyrrhotite 2%, minor garnet development								
	206'7.5"	Syenite band 50° to C.A.								
210'	214'2"	Dacitic section								
	224'2"	Pyrrhotite band 115° to C.A.								
226'	232'4"	Siliceous Breccia (volcanic) pyrrhotite 1 - 2 % Calcite filling voids; non-brecciated sections present								
232'4"	242'5/5"	Basaltic Rock Type. Grey green in colour, contains coarse syenite bands 134° to C.A.								



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 14 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
242'5.5"	250'	Basic Syenite - Dark green grey to black in colour Contact 82° to C.A.									
250'	253'10"	Rhyolite Rock Type; tufaceous, pyrrhotite 1%									
253'10"	255'4"	<u>Basic Syenite</u> : As above upper contact 160° to C.A.									
255'4"	270'55"	This section a mixture of rock types, including breccia, andesitic and non-crystalline siliceous rocks									
	265'9"	microcrystalline rhyolite on fractures 155° to C.A. Banded pyrite 120° to C.A.									
270'5.5"	284'5"	Rhyolitic tuff red to grey in colour Bedding 134° to C.A. Minor sulphides									
284'5"	294'	Basic Syenite, gneissoid									
END OF HOLE											



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72 - 15 LENGTH 375'
 LOCATION Line 50 W 7+ 90 S North grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED March 2, 1972 FINISHED March 3, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
347'	45°				

HOLE NO. 72 - 15 SHEET NO. 1

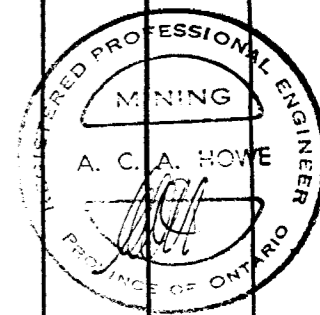
REMARKS _____
 objective: to test coinciding
 EM & Geochem. anomalies.

Magnetite predominant Mineral of
 (LOGGED BY N. Brewster) economic value
 Trace of chalcopyrite

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	%	%	OZ/TON	OZ/TON	
0	15'	<u>CASING</u>										
15'	30'8"	<u>Andesitic Rock:</u> dark green medium grained 1 - 4 mm mafic rock. Mineralogy consists of a matrix of feldspar & olivine 35% mafics include biotite and chlorite which occur both as phenocrysts 40% and in the matrix. Anhedral crystals.										
30'8"	34'8"	<u>Siliceous Tuff</u>										
34'8"	35'	<u>As Above</u> 15' - 30'8"										
35'	35'4"	<u>Talc</u>										
35'4"	57'7"	<u>As Above</u> 15' - 30'8" Altered sections exhibiting pale green white colour (saussuritized) occur near fractures.										
	38'10"											
	47'9"											
	41'	Hematite										
43'5"	43'10"	Talc vein with hematite										
	49'1"	Talc										
		Strongly magnetic in places										
57'7"	61'9"	<u>Syenite:</u> Salmon pink in colour upper contact 132° to C.A. lower contact 125° to C.A. Assimilation of wall rock effect visible on lower end.										

EM. 6-1168

LANGRIDGE LIMITED.



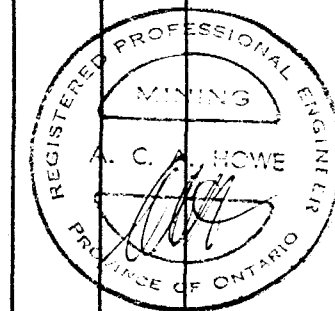
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 15

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS								
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Oz/TON	Oz/TON	%		
					FROM	TO	TOTAL							
61'9"	130'	<u>As Above</u> 50' - 57'7" (magnetic due to disseminated magnetite not visible due to dark nature of rock).												
115'	118'9"	<u>Andesite Porphyry</u> : Phenocrysts of feldspar 1 - 5 mm contained in fine grained \angle 1 mm mafic groundmass.												
130	132'8"	<u>Basic Syenite</u> : Mineralogy - orthoclase 60% - micas (biotite) 40% - garnet \angle 1% subhedral feldspar crystals 5 mm - 1.5 cm												
132'8"	136'	<u>As Above</u> 61'9" - 130'	87		135'5"	145'	9'5"	0.03	0.01	0.01		35.1		
136'	158'6"	<u>Iron Rich Section</u> : Banded and splotchy to massive magnetite varying from 5% in lean sections to 25% Pyrite occurs in the same manner as iron 4 - 5% Minor disseminated chalcopyrite occurs in the magnetite $\angle\angle$ 1% The iron is contained in dark green mafic rock with chlorite dominate.	88		145'	158'6"	13'6"					21.4		
	137'6"	Massive magnetite bands separated by siliceous material 134 ^o to C.A.												
158'6"	192'1"	<u>Siliceous Tuff</u> : (cherty) light lime green to grey green in colour.												
177'8"	178'5"	Broken rock, fault.												
185'	185'6"	Broken rock, fault.												
187'6"		LENSOID Clasts (some are rotated) are visible on bedding pyrite 1% occurs on these planes and in cross cutting fractures.												

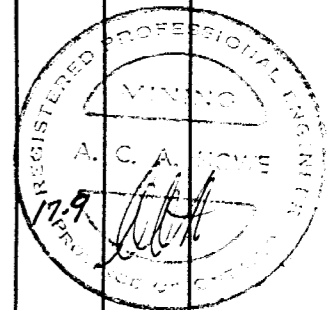


DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 15 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	oz/ton	oz/ton	%
					FROM	TO					
188'9"		Bedding (orientation of grains) 65° to C.A.					Ca	Pb	Zn	Fe	Ni
192'2"	193'11"	<u>Chlorite Rich Section</u> : Magnetic. Mineralogically the section composed of biotite and chlorite in a matrix of feldspar, chlorite and olivine. Grain size 1 mm									
197'1"	200'	As Above									
200'	242'9"	<u>Tuff</u> : grey to pale buff green colour. Chlorite clasts are visible in rock, some of which are surrounded by alteration halos.	90		223'1"	226'	2'9"				21.1
	226'7"	bedding 36° to C.A. Mineralogy of the above consists of - feldspar 40% mafics 55-60% pyrite 1-2%	91		226'	231'1"	5'1"	0.06	0.02	8.3	0.02
		The feldspars frequently occur as phenocrysts saussuritized.	92		231'1"	236'4"	5'3"			18.1	
222'4"	225'	<u>Iron Section</u> : magnetite shows relic bedding 60-68° to C.A., Anhedral pyrite crystals occur frequently throughout this section 5%. Grain size 1mm - 5mm. The pyrite exhibits bending.									
229'4"	230'	Iron Section as above									
231'	235'9"	Iron section as above									
239'4"	240'8"	Iron section as above									
242'9"	260'4"	<i>242'2" - Spec of Chalcopyrite mixed in pyrite</i> <u>Biotite Rich Section</u> : Biotite occurs as phenocrysts in a matrix of white feldspathic minerals. The section lacks banded nature and exhibits an increase of mafics.	93		255'	265'	10'				
260'4"	268'4"	<i>243'4" - Spec of Chalcopyrite</i> Iron Section	94		265'	270'	5'			11.4	



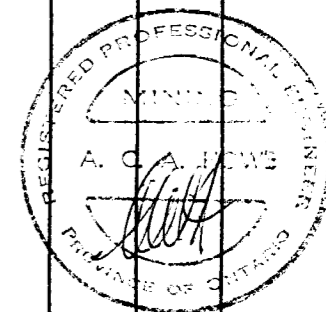
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 15

SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	oz/TON	oz/TON	%
					FROM	TO	TOTAL					
268'4"	272'8"	Chlorite rich section						Cu	Pb	Zn	Fe	Ni
272'8"	275'5"	Tuff										
275'5"	278'9"	Syenite										
278'9"	280'6"	Transition Zone										
280'6"	282'8"	Tuff as above										
282'8"	284'3"	Iron zone as above, coarse magnetite upper contact 35° to C.A. banding 120° to C.A.										
284'3"	298'10"	<u>Flow Tuff</u> : Feldspars occur both as individual grains and as aggregates. Pyrite bands / 1% present 120° to C.A. Hematite smears occur on fractures.										
297'6"	298'4"	Broken ^{Zone} section Fault? Lead smear on fracture. / 1%										
298'10"	300'	Ground core										
300'	308'9"	Tuff as above										
308'9"	313'11"	<u>Basaltic Rock Type</u> : Minor amounts of magnetite 10% disseminated and banded, throughout the section which has been chloritized. Chalcopyrite 1-2%.	95		308'7"	313'11"	5'4"	0.13			13.4	
313'11"	320'	Tuff as above										
318'1"	318'11"	Syenite - causes alteration in adjacent rock. Similar alteration occurs in vicinity of fractures.										
320'	321'9"	Syenite Upper contact 30° to C.A.										

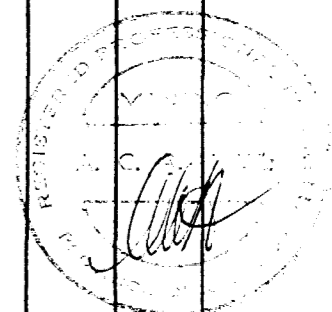


DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 15 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS									
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	oz./Tb	oz./Tb	%			
					FROM	TO	TOTAL								
321'9"	325'	Rock type similar to section 242'9" - 250'													
323'1"	323'6"	Broken zone development of sericite minerals													
323'6"	325'	Ground core Fault.													
325'	375'	<p>This section composed of andesitic flow tuffs and magnetite rich sections. Contacts between the two types are distinguishable. The tuff sections composed of mafic minerals and white feldspars; that exhibit preferred orientation at 130° to C.A., this is probably original flow lines.</p> <p>The iron rich sections have a dominant green colour due to the presence of chlorite, epidote and minor serpentine. Red colour also present, reduced equivalent of magnetite became magnetic on heating in an oxidizing flame.</p> <p>Sections of the magnetite are banded, accompanied by pyrite and pyrrhotite.</p>	96		325'	328'10"	3'10"					26.9			
	363'			97		345'	350'	5'	0.10				26.0	0.02	
				98		350'	355'	5'					15.5		
326'5"	328'9"	Iron section													
	328'	Speck of chalcopyrite													
328'9"	330'	Ground Section													
330'9"	331'10"	Ground Section													
340'	354'4"	Iron Section													
340'	345'	Chalcopyrite disseminated with pyrrhotite and iron 1-2%													
367'4"	368'3"	Iron Section Containing banded pyrrhotite and pyrite in varying proportions 5 - 15%													
		END OF HOLE													



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72-16 LENGTH 261'2"
 LOCATION L 52 W 10 + 00 S North grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 180° DIP -45°
 STARTED March 6, 1972 FINISHED March 7, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
360'	-44°				

HOLE NO. 72-16 SHEET NO. 1

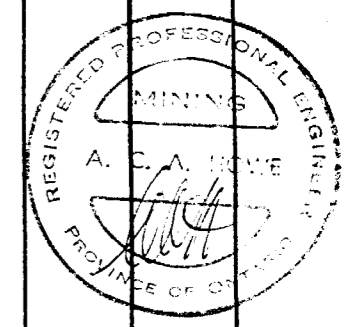
REMARKS _____
 Objective: to test coinciding EM and Geochem anomalies

LOGGED BY N. Brewster

EM. 6-1168

LANGRIDGE LIMITED,

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0'	6'	<u>Casing</u>										
6'	16'2"	<u>Andesitic Rock:</u> green coloured rock consisting of biotite and chlorite minerals										
	16'	Iron section										
16'2"	24'1"	<u>Basic Syenite:</u> porphyritic volcanic rock, grey green in colour. Mineralogy consists of chlorite 40%, feldspar 60% (matrix). Feldspar also occurs as phenocrysts 1 - 5 mm grain size of matrix 1 mm. Minor epidotization										
18'	18'6"	Broken core, fault										
24'1"	25'7"	Chlorite rich section										
25'7"	48'5"	<u>Basic syenite:</u> green coloured rock Mineralogy Chlorite 40% Feldspar 58% Epidote / 2%										
30'	37'4"	Fine grained section similar to 16'2" - 24'1", Gradational contacts.										
48'5"	53'2"	<u>Mafic Flow:</u> Dark green, grain size / 1 mm banded pyrite 4 - 5% Feldspar phenocrysts in latter parts.										



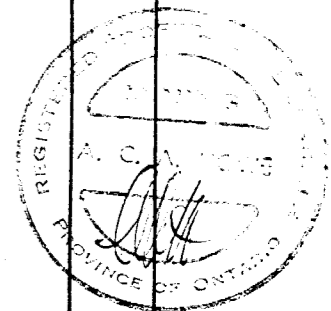
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 16

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
53'2"	55'	Porphyrific Syenite									
55'	61'9"	Section similar to 16'2" - 24'1"									
61'9"	83'9"	<u>Trachyte</u> ? green to grey green coloured rock. Dominant fine grained \angle 1mm texture with minor, \angle 5% feldspar phenocrysts 1mm. Coarse sections of feldspar 1-5mm occur, usually in conjunction with fractures filled with synite.									
	63'6"	Syenite 11° to C.A.									
	77'9"	Vein 45° to C.A.									
83'9"	85'	Syenite									
85'	93'11"	As above 61'9" - 83'9"									
86'11"	87'5"	Basic Syenite: upper contact 25° to C.A.									
93'11"	100'	Chlorite Rich section, upper contact indefinite									
	98'2"	Fractures 45° to C.A. Surrounded by alteration zone									
100'	127'3"	Dominant grey-green rock type. Mineralogy consists of chlorite. Fine grained sections \angle 1mm contain appreciable amounts of feldspar 30%. Both varieties grade gradually into each other, distinct contacts missing.									
100'3"	101'4"	Dense lime green alteration zone, saussuritized; granular section around hematite staining.									
105'	105'4"	Saussuritized section of rock, pyrite 1%									
106'3"	106'7"	As above (feldspar pseudomorphs visible)									
113'6"	114'7"	Coarse grained 4mm section containing biotite and feldspar 5mm; portions of the feldspar saussuritized.									



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston
 HOLE NO. 72-16 SHEET NO. 3

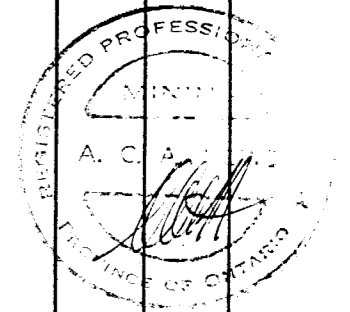
FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
115	117' 7"	Broken Alteration Zone									
127' 3"	127' 5"	Syenite Vein									
127' 5"	129' 6"	<u>Andesite Section</u> : containing chlorite phenocrysts (5-8mm) 15% in a matrix of feldspar 15% and chlorite 70%									
129' 6"	150'	As above									
130' 8"	131' 5"	Altered saussuritized section; Zn, Pb, Cu, / 1% associated with fractures									
133' 10"		Pyrite band									
136' 3"	136' 9"	Saussuritized section									
137' 2"	139' 6"	Gneissic section 120 - 133° to c.a.									
139' 6"	152' 6"	Fine grained green rock, textural change distinct mineralogy consistent									
143' 8"	143' 10"	Pb associated with fractures. 135° to c.a. and speckled in syenite									
151'		Pb smears on fracture plane									
152' 6"	158' 6"	Similar to section 16'2" - 24'1"									
155'		Garnets									
157' 6"		Granitic vein 130° to c.a.									
158' 6"	166' 6"	As above, 129'5" - 150'									
166' 6"	202' 2"	As above 152'6"-158'6". Mineralogy -- feldspar, chlorite, garnet 5%									
172' 1"		Pyrite									
177' 10"		Chalcopyrite speck									
188' 10"	190'	Alteration zone. Saussuritized, pyrite / 1%									
191' 5"		Fractures 110° to c.a., 130° to c.a.									
193'	195'	Alteration section, hard aggregate of light lime green minerals replace feldspar. Certain sections 178 - 180 heavily chloritized.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 16 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
202'2"	247'1"	Dark green Mafic Rock type: Black mica (biotite or chlorite) compose 90% of mineralogy; light emerald green mineral present. Grain size 1 - 5mm									
247'1"	248'9"	Syenite Section contacts 42° to C.A. Pyrite and chalcoppyrite associated with calcite veinlet 150° to C.A. /1 %									
248'9"	252'2"	Broken core. Fault section; euhedral calcite present filling voids. grey green calc minerals also occur. clay									
	251'6"	Asbestos in vein 110° to C.A., calcite also present									
252'2"	262'2"	As above									
END OF HOLE											



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72 - 17 LENGTH 307' 4"
 LOCATION 38 W 9+ 00 S, North grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 173° DIP -45
 STARTED March 10, 1972 FINISHED March 11, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
305	-44°				

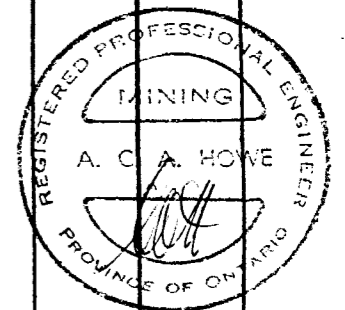
HOLE NO. 72 - 17 SHEET NO. 1
 REMARKS Logged by N. Brewster

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	10	<u>CASING</u>								
10	100	<u>Ultra Basic)</u> dark green black rock, mineralogy consists of chlorite (both as phenocrysts and matrix) and green coloured feldspar. Non-magnetic grain size 1 - 2 mm. <u>Lamprophyre)</u>								
10'4"	10'8"	syenite, sharp contacts 90° to C.A.								
37'	38'	massive mica (biolite, chlorite) grain size 3 mm.								
60'5"	60'9.5"	syenite band contact 150° to C.A.								
60'11"	61'	syenite band contact 150° to C.A.								
80'	81'6"	syenite section (white) 170° to C.A.								
88'10"	89'	brick red syenite 132° to C.A.								
100'	150'	<u>As Above</u>								
137'8"	138'	syenite band contacts 90° to C.A. Lower section basic due to assimilation of wall rock minor alteration 1 mm wide at contact.								
150'	200'	<u>AS Above</u>								
184'9"	185'1"	syenite								
185'3"	185'6"	syenite band, filling shear fractures, contact 40° to C.A. Speck of chalcopyrite minor alteration.								

EM. 6-1168

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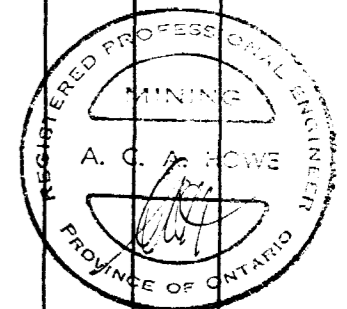
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 17

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
200'	250'	<u>Ultra Mafic:</u> Dark green chlorite rich (as phenocrysts and matrix) grain size 1 - 2 mm									
250'	267'6"	<u>As Above</u>									
267'6"	276'9"	<u>Syenite:</u> upper contact 37° to C.A. syenite, somewhat more basic, chlorite minerals compose 80% of rock in places due to assimilation of wall rock. Lower contact 160° to C.A.									
271'	276'9"										
276'9"	280'5"	<u>As Above</u> syenite band									
278'9"	279'										
280'5"	287'8"	<u>Pink Syenite:</u> upper contact 50° to C.A. lower contact 20° to C.A.									
287'8"	300'	<u>As Above</u>									
300'	307'9"	<u>As Above</u>									
306'	306'2"	<u>Syenite Band:</u> contacts 40° to C.A.									
306'9"	306'11"	<u>Syenite Band:</u> contacts 120° to C.A. END OF HOLE									
	307'9"										



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston
 HOLE NO. 72-18 LENGTH 53'5"
 LOCATION 41 W 11 + 00 S North Grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 0° DIP -45
 STARTED March 14, 1972 FINISHED March 14, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-18 SHEET NO. 1

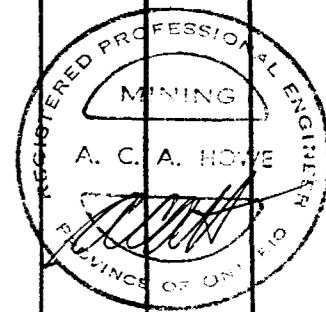
REMARKS _____

LOGGED BY N. Brewster

FOOTAGE	DESCRIPTION	SAMPLE			ASSAYS					
		NO.	% SULPHIDES	FOOTAGE	FOOTAGE	FOOTAGE	%	%	%	oz/TON
FROM	TO			FROM	TO	TOTAL	Cu	Pb	Zn	Ag
0	12'									
12'	14'4"									
	13'9"									
14'4"	15'10"									
15'10"	17'									
17'	17'8"									
17'8"	20'									
20'	22'6"									
22'6"	22'8"									
22'8"	23'7"									
23'7"	28'11"									
28'11"	33'									

EM. 6-1168

LANGRIDGE LIMITED.

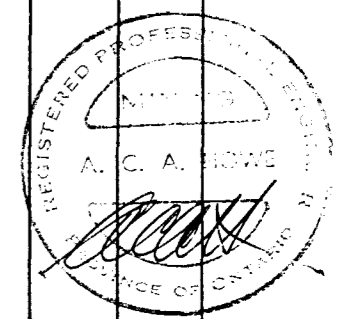


DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston

HOLE NO. 72 - 18 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
33'	43'4"	<u>Andesitic Volcanic:</u> green in colour, chlorite 70% feldspar 30% feldspar occurs as phenocrysts veinlets pyrite approximately 3%.									
43'4"	45'1"	<u>Iron Section</u>									
45'1"	53'5"	<u>Gabbroic rock type:</u> probably coarser section of a differentiated andesitic flow, pyroxene, amphiboles and feldspar identified in chloritic matrix, pyrite <u>5%</u>									
52'2"	53'5"	Broken Section; probable fault									
53'5"		<u>Andesitic Breccia:</u> contains lead, probably caved from above									
		END OF HOLE 53'5"									



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston
 HOLE NO. 72-18A LENGTH 150'
 LOCATION L 41 W 11 + 60 S North Grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 0° DIP -45
 STARTED March 15, 1972 FINISHED March 16, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°				
145	-44°				

HOLE NO. 72-18A SHEET NO. 1

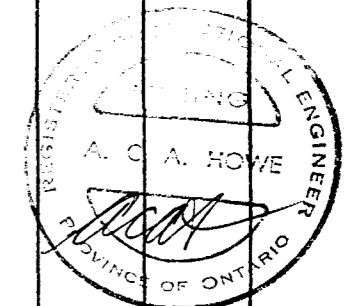
REMARKS _____

LOGGED BY N. Brewster

FOOTAGE	DESCRIPTION	SAMPLE			ASSAYS				
		FROM	TO	TOTAL	%	%	%	oz/TON	
0	5'6" Casing								
5'6"	10' <u>Siliceous tuff:</u> the rock has a prominent grey white colour with red tints. Mineralogy: feldspar & quartz 95% mafics (chlorite) 1-5% minor pyrite / 1%								
10'	11'10" <u>Syenite Porphyry:</u> brick red colour, this is a broken section.								
11'10"	14'1" <u>Siliceous tuff:</u> as above - 5'6" - 10'								
	13'3" fracture 45° to core axis								
14'1"	18'2" <u>Chlorite rich section:</u> the rock is soft and altered, the section is well broken (fracturing)								
15'5"	15'6" siliceous section as above, lower contact 46° to core axis								
18'2"	36' <u>Basic Syenite:</u> mineralogy consists of feldspar, biotite and minor quartz. This section is interrupted at points by a chlorite rich rock, contacts are hard to detect but visible. 31'9" - 32'1" upper contact 160° to core axis 32'5" - 33'1" upper contact 100° to core axis; lower contact 135° to core axis								
	34'8" sphalerite contained in fracture 130° to core axis								

EM. 6-1168

LANGRIDGE LIMITED,

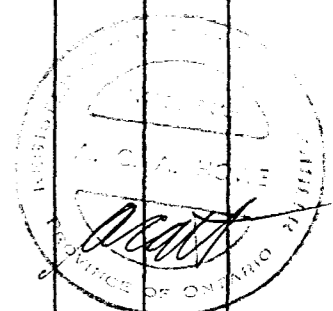


DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston

HOLE NO. 72 - 18A SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
18'2"	36'	continued									
35'	35'7"	Banded pyrite 90° to core axis									
36'	37'8"	<u>Siliceous Tuff</u> : as above. upper contact 42° to core axis									
37'8"	38'3"	<u>Andesite</u> : chloritic and tuffaceous									
38'3"	38'11"	<u>Siliceous Tuff</u> : as above 36' - 37'8"									
38'11"	41'10"	<u>Andesitic Chloritic Zone</u> : Lower contact 49° to core axis									
40'	41'10"	<u>Andesitic, chloritic section</u> : lower contact 49° to core axis									
41'10"	52'5"	<u>Siliceous Tuff</u> : interspersed with chlorite rich sections									
	44'6"	syenite vein 46° to core axis									
50'1"	50'7"	syenite, upper contact 120° to core axis									
	50'4"	banding (bedding?) 120° to core axis									
52'5"	53'	<u>Chloritic Section</u> : contacts 142° to core axis									
53'	57'9"	<u>Syenite</u> : pink in colour, well fractured									
	57'	fractures 34° to core axis; 42° to core axis; 165° to core axis. lower contact 48° to core axis.									
57'9"	67'6"	<u>Intermediate - (Andesitic) Flow</u> : tuffaceous mafics 40% feldspars 60% lower portion of section, 66' - 67'7" strongly chloritic.									

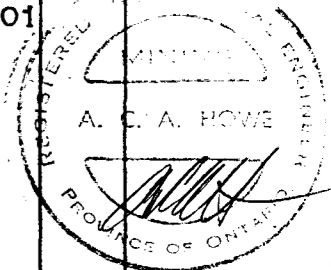


DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 18A SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Cu	Pb	% Zn	OZ TON Ag
					FROM	TO	TOTAL				
67'6"	73'9"	<p><u>Siliceous Tuff</u>: trachytic, dense, fine grained rock, grey green in colour. Minor carbonates present in rock. Upper contact 134° to core axis; portions of the rock are largely saussuritized.</p> <p>banding 120° to core axis; lower contact 127° to core axis. altered section at contact with underlying rock.</p>									
	71'4"										
73'9"	78'1"	<u>Chlorite Rich Section</u>									
78'1"	83'10"	<u>Tuff</u> : intermediate to andesitic in composition; mineralogy consists essentially of feldspars 80 - 90%, and chlorite 10-15%. Banding 135° to core axis.									
83'10"	100'	<u>Andesite</u> : chlorite rich rock type, mineralogy consists of feldspar, which occurs as phenocrysts (5 - 95%) in a matrix of dominate chloritic minerals in the early portions. Along the section the ratio of feldspathic to chloritic minerals is 35/65. Feldspars occur as aggregates, the individuals of which appear to have subrounded shapes. Saussuritization occurs in spots.									
	84'	Magnetite									
84'	100'	Lead, zinc mineralization occurs through this section associated with fracture planes.									
	88'4"	Lead and zinc on fracture, 136° to core axis	4402		89'	90'	1'	0.13	0.18	0.51	0.09
	89'10"	copper occurs as replacement of pyrite									
	91'6"	lead on fractures, 58° to core axis									
	92'	copper occurs as replacement of pyrite	4403		90'	95'	5'	0.10	0.79	1.22	0.12
94'8"	95'1"	copper occurs as replacement of pyrite									
	96'3"	zinc on fracture, 49° to core axis	4404		95'	100'	5'	0.05	0.47	1.28	0.01
	100'	copper occurs as replacement of pyrite banded at 124° to core axis									
		Due to the nature of the mineralization it is difficult to estimate percentages. Most fractures tend to be 1 mm or less wide. Estimates of 1.5% Zn and 1% Pb seem appropriate.									



DIAMOND DRILL RECORD

 NAME OF PROPERTY Marshall Boston Iron Mines Limited

 HOLE NO. 72 - 18A SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL					
100'	112'6"	<u>Intermediate to Andesitic tuff:</u> grey green feldspars with green mafics zinc mineralization present in fractures zinc on fractures 45° to core axis	4405		100'	102'	2'	0.02	0.33	1.04	0.01	
102'2"	102'5"		4406		102'	105'	3'	0.02	0.13	0.47	Trace	
102'5"	105'		4407 4408		105' 110'	110' 115'	5' 5'	0.03 0.03	0.23 0.29	1.10 1.08	0.02 0.02	Nil
112'6"	116'6"	<u>Chlorite rich section:</u> zinc and lead mineralization present on fractures	4409		115'	120'	5'	0.01	0.30	0.63	0.02	
116'6"	117'5"	<u>Broken Zone:</u> Fault?										
117'5"	121'10"	<u>Intermediate tuffaceous section:</u> as above, well fractured from 119', Zn and Pb present on fractures	4410		120'	125'	5'	0.04	0.47	0.91	0.02	
121'10"	123'8"	<u>Broken Section;</u> fault, very little mineralization occurs across this section.										
123'8"	125'7"	<u>Intermediate tuff:</u> altered (saussuritized), fractured with Cu, Pb, Zn, mineralization filling fractures. Calcite also present on some fractures; 2 - 3% Zn, Cu 1%, Pb <u>1%</u> Fracture 50° to core axis Fracture 148° to core axis										
123'11"	124'4"											
125'7"	127'9"		<u>Ground Core</u>	4411		125'	130'	5'	0.02	0.81	2.52	0.03
127'9"	130'	<u>Intermediate Andesitic rock type:</u> (broken section) dominant zinc mineralization 3%; zinc occurs in fractures 3mm wide, 142° to core axis; there are a number of fractures in this section, some 8mm wide.										
129'10"		minor Cu <u>1%</u>										



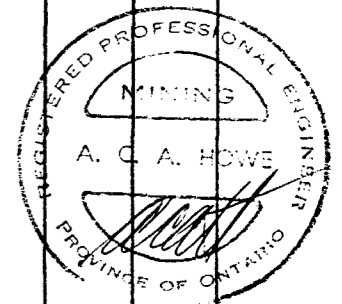
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 18A

SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	OZ/TON	OZ/SW
					FROM	TO	TOTAL					
130'	131'4"	<u>Ground Core</u>										
131'4"	145'	<u>Intermediate to Andesitic Volcanic:</u> (difficult to determine whether a flow or a tuff) This is a fractured breccia section, saussuritized in places, with chlorite rich sections	4412		130'	135'	5'	0.01	0.38	1.32	0.02	
135'	136'10"	Broken section, faulted										
136'10"	139'	Altered section, Zn, Pb mineralization present on fractures	4413		135'	140'	5'	0.02	1.18	2.34	0.02	
139'	139'3"	Chlorite rich section containing lead, calcite veinlet 23° to core axis										
139'3"	145'	Chloritic, saussuritized, well fractured section, zinc mineralization 2%, lead and copper <u>1</u> %	4414		140'	145'	5'	0.03	0.65	2.50	0.12	
145'	150'	<u>Breccia Zone:</u> angular fragments contained in calcite cement										
	145'11"	zinc <u>1</u> %; Cu <u>1</u> %										
	146'1"	lead <u>1</u> %										
146'1"	150'	Barren section										
	147'7"	Calcite vein 35° to core axis										
	149'6"	Calcite vein 140° to core axis										
		<u>END OF HOLE 150'</u>										



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72-18B LENGTH 271'
 LOCATION 41 W 11 + 00 S North Grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 0° DIP -60°
 STARTED March 16, 1972 FINISHED March 18, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
200'	-58°				

HOLE NO. 72-18B SHEET NO. 1

REMARKS Casing left in hole.

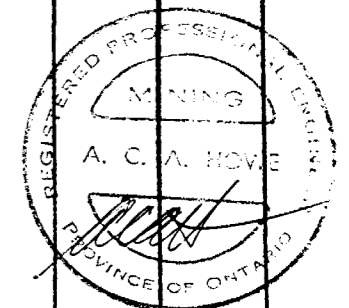
Objective - to undercut Hole 72-18A

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0'	4'2"	Casing										
4'2"	16'3"	<p><u>Siliceous Tuff:</u> Subangular to rounded grains of white feldspar contained in a siliceous matrix exhibiting a preferred orientation (141° to core axis). <u>1%</u> epidotization; 10% chlorite. Red feldspathic veins (syenite) cut core 46° to core axis. Contact mafic volcanic vein 40° to core axis. Lower contact 63° to core axis.</p>										
8'												
14'7"	16'3"											
16'3"	22'3"	<u>Altered Andesitic Volcanic:</u> Chlorite rich section, amphiboles visible. Feldspar phenocrysts 2%; pyrite <u>3%</u> .										
22'3"	23'1"	<u>Siliceous Section:</u> As above; 4'2" to 16'3"										
23'1"	30'10"	<p><u>Basic Syenite:</u> Rock is green-white in colour. mineralogy:</p> <p>K feldspar 60% Chlorite 30% Pyrite 2 - 3% Minor quartz</p> <p>Lower contact 45° to core axis</p>										
30'10"	30'10"											
30'10"	38'7"	<p><u>Siliceous Tuff:</u> Saussuritized, somewhat more compact than above section 4'3" to 16'3". Chlorite 20%. Banded pyrite.</p>										
32'5"	31'11"											
31'8"	31'11"	Andesitic rock upper contact 63° to core axis.										
33'4"	34'6"	Andesitic rock upper contact 90° to core axis										
35'2"	36'2"	Andesitic rock upper contact 57° to core axis										

EM. 6-1168

LANGRIDGE LIMITED.



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Bosoton Iron Mines Limited

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

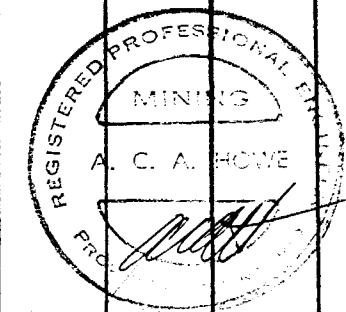
HOLE NO. 72-18B SHEET NO. 2

REMARKS _____

LOGGED BY N. Brewster

EM. 6-1168	FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
	FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
						FROM	TO	TOTAL					
	38'7"	39'7"	<u>Syenite Porphyry</u> : Brick red colour, feldspar phenocrysts, upper contact 46° to core axis.										
	39'7"	43'8"	<u>Siliceous Tuff</u> : As above, 30'10" - 38'7"										
	41'2"	42'2"	<u>Syenite vein</u> 11° to core axis										
	43'8"	44'8"	<u>Syenite</u> : As above										
	44'8"	48'2"	<u>Altered Andesite</u> : Chlorite rich section as above										
	48'2"	50'	<u>Siliceous Tuff</u> : As above, 30'10" - 38'7"										
	50'	51'6"	<u>Brecciated Section</u> : Red siliceous rock type, saussuritized, carbonates present on fractures.										
	51'6"	52'	<u>Syenite</u>										
	52'	52'11"	<u>Siliceous Tuff</u> : As above, 30'10' - 38'7".										
	52'11"	62'8"	<u>Altered Andesite</u> : Chloritic rich section, contains feldspar up to 15%, pyrite 3 - 4%, banded and disseminated.										
		54'9"	Tuffaceous section Contact 23° to core axis.										
	60'11"	61'7"	Feldspathic breccia, minor, $\frac{1}{2}$ 1% zinc, chalco, lead, in calcite filling fracture 11° to core axis.										
	62'8"	70'	<u>Altered Andesite</u> : Green chloritic section										
	70'	75'	<u>Broken and ground core</u> : Ground Core: 71'11" - 72'8"; Broken core: 73'4" - 74'1"; Broken core: 74'6" - 75'.										

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. 72-18B SHEET NO. 3

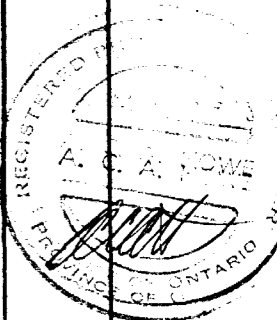
REMARKS _____

LOGGED BY N. Brewster

EM. 6-1168

LANGRIDGE LIMITED,

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	oz/TON	
					FROM	TO	TOTAL					
75'	101'5"	<p><u>Siliceous to Intermediate Tuff</u>: containing grey-white to green subrounded feldspars, pink feldspars, chlorite and biotite pyroxene present. Grain size / 1mm</p> <p>Fractures 35° to core axis. Saussuritized.</p> <p>Banded pyrite 5%; 140° to core axis.</p> <p>Chalcopyrite and lead in quartz vein 20° to core axis</p> <p>Banding 134° to core axis.</p> <p>Chlorite Section Contact 10° to core axis</p> <p>Syenite band, sharp upper contact 50° to core axis</p> <p>Syenite</p> <p>Syenite band contact 125° to core axis</p>										
	72'11"											
	78'5"											
	84'											
85'	86'9"											
	87'6"											
90'2"	90'9"											
95'4"	96'6"											
98'8"	99'10"											
101'5"	108'4"	<p><u>Breccia Section</u>: Containing brick red angular volcanic fragments separated by chloritic minerals. Lead and zinc occur along the fragment boundaries, and in thin fractures. Where brecciation is less severe the section resembles the above, alternating between siliceous and intermediate to andesitic bands of tuff at 20° to core axis. Zinc minerals fill cross cutting fractures in the breccia, 2%.</p>	4426		100'	105'	5'	0.02	0.81	1.24	Trace	
	107'4"		4427		105'	110'	5'	0.04	0.57	1.52	0.03	
108'4"	116'4"	<p>Similar rock type to above but non-brecciated. Zinc and lead minerals 1% occur on individual fractures through this section 45° to core axis</p> <p>Banding 28° to core axis. Pyrite 1%</p>	4428		110'	115'	5'	0.04	0.48	1.01	0.01	
	112'		4429		115'	120'	5'	0.02	0.02	0.06	Nil	
116'4"	116'9"	<p><u>Syenite Band</u>: upper contact 55° to core axis</p>										



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. 72-18B SHEET NO. 4

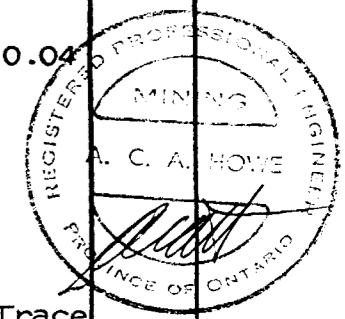
REMARKS _____

LOGGED BY N. Brewster

EM. 6-1168

LANGRIDGE LIMITED,

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	OZ/TON
					FROM	TO	TOTAL				
116'9"	125'	<p><u>Mafic Volcanic Tuff:</u> Andesitic, chlorite phenocrysts, possibly pyroxene present. Syenite veins cut the rock which is saussuritized in spots.</p> <p>Syenite vein 20° to core axis.</p> <p>Minor lead smears.</p>	4430		120'	125'	5'	0.02	0.09	0.18	Nil
124'	125'										
125'	150'	<p><u>Intermediate Tuff:</u> As above, grey green in colour.</p> <p>Mineralization Zn on fractures \angle 1%</p> <p>Fracture 50° to core axis adjacent to syenite band</p>	4431		125'	130'	5'	0.02	0.11	0.38	Nil
125'	130'										
130'	135'11"	<p>As above 125' - 130'</p> <p>Mineralization Zn and Cu 1-2% on fractures, small breccia section</p>	4432		130'	135'	5'	0.02	0.23	0.64	Nil
135'	140'										
140'	145'	<p>Mineralization 1-2% Zn, \angle 1% Cu, syenite veins when fractured give the appearance of feldspar fragments.</p> <p>Saussuritized section from 147': Zn 1%; pyrite 1%.</p>	4433		135'	140'	5'	0.04	0.47	1.34	Trace
140'	145'				4434	140'	143'8"				
145'	150'	<p>Grey green rock type resembles a sediment, has a gritty surface and flaky texture. Composed essentially of feldspars, chlorite and quartz. Grain size \angle 1mm.</p> <p>Intermediate tuff similar to above, grey white in colour; rock is gritty with subclastic texture.</p>	4435		143'8"	150'	6'4"	0.06	0.31	0.78	0.04
150'	165'										
156'	159'3"	<p>Increased feldspathic content. Saussuritized from 159'3"</p> <p>1% Zn</p>	4436		158'8"	161'6"	2'10"	0.04	0.14	0.70	Trace
158'8"	161'6"										
161'9"	164'4"	<p>Broken section. Fracturing.</p> <p>Pink syenite</p>	4437		161'6"	166'6"	5'	0.03	0.13	0.24	0.03
163'	163'6"										
163'8"	164'2"	<p>Syenite</p> <p>Mineralization Zn 1%, Cu, Pb \angle 1%</p>									
164'3"	166'6"										



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. 72-18B SHEET NO. 5

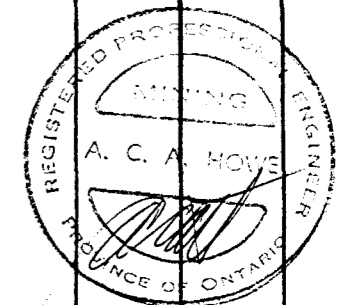
REMARKS _____

LOGGED BY N. Brewster

FOOTAGE	DESCRIPTION	SAMPLE			ASSAYS					
		NO.	% SULPHIDES	FOOTAGE	FOOTAGE	FOOTAGE	%	%	%	oz/TON
FROM	TO			FROM	TO	TOTAL	Cu	Pb	Zn	Ag
165'	165'10"									
165'10"	166'4"									
166'4"	169'4"									
168'1"	168'4"									
169'4"	175'									
170'7"	170'7"									
172'3"	177'9"	4438		172'3"	177'9"	5'6"	0.04	0.10	0.29	0.02
173'7"	174'									
175'	176'9"									
176'9"	180'10"									
180'10"	183'10"	4439		180'10"	183'10"	3'	0.01	0.01	0.13	0.02
183'10"	185'2"									
185'2"	186'5"									
186'5"	187'7"									

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. 72-18B SHEET NO. 6

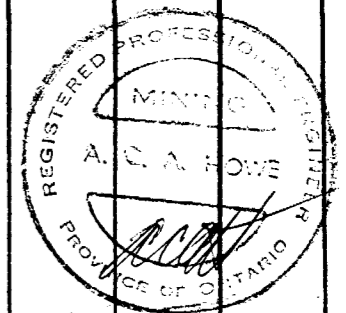
REMARKS _____

LOGGED BY N. Brewster

EM. 6-1168

LANGRIDGE LIMITED.

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	oz/TON
					FROM	TO	TOTAL				
187'7"	189'7"	<u>Andesitic Rock:</u> Dark green chlorite rich rock. Chlorite crystals contained in a chlorite, epidote matrix / 1% garnets, minor iron						Cu	Pb	Zn	Ag
189'7"	202'	<u>Andesitic Tuff:</u> Spotted green rock with chlorite and feldspars, pyrite 5%. The feldspars are drawn out along what are flow bands, 30° to core axis.									
202'	203'	<u>Basic Syenite</u>									
203'	205'	<u>Chlorite Rich Section:</u> Containing syenite blebs.									
205'	209'	<u>Chlorite Rich Section:</u> Containing: chlorite 70%; garnet 5%; Feldspar 5%. Amphiboles, muscovite, sericite, pyrite and talc, This rock probably altered andesite.									
209'	212'3"	<u>Tuffaceous Rock:</u> Saussuritized green, intermediate composition									
212'3"	226'1"	<u>As above</u> 205' - 209'									
226'1"	230'5"	<u>Syenite Section</u>									
230'5"	271'	<u>Andesitic Rock:</u> Dark green, chlorite rich									
233'8"	234'6"	Iron section with disseminated Cu.									
	237'1"	Lead bleb									
250'7"	251'3"	Syenite band									
253'	263'10"	Magnetic section, disseminated magnetite spotted throughout									



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. 72-18B SHEET NO. 7

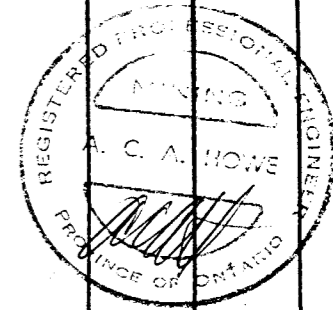
REMARKS _____

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS												
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	oz/TON								
					FROM	TO	TOTAL												
230'5"	to 271'	continued																	
255'7"		Speck of chalco																	
256'11"	257'1"	Disseminated epigenetic chalcopryrite in an iron section																	
258'10"	259'	Syenite band Contact 20° to core axis																	
259'10"	261'	Disseminated epigenetic chalcopryrite 8% in a section of magnetite	4440		259'10"	261'	1'2"	1.32	0.02	0.03	0.04								
265'4"	266'1"	Syenite band																	
	271'	END OF HOLE - 271'																	

EM. 6-1168

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72 - 19 LENGTH 27'9"
 LOCATION 41 + 57 W 12 + 13 S North Grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 0' DIP -45
 STARTED March 21, 1972 FINISHED March 21, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45				
27'9"					

HOLE NO. 72 - 19 SHEET NO. 1

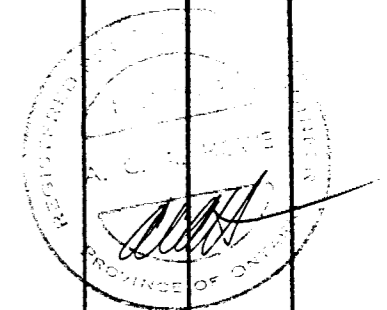
REMARKS This hole stopped because of poor conditions

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	11'4"	Casing										
11'4"	25'	Section consists predominantly of <u>dioritic rock</u> that is almost black in colour; mineralogy consists of chlorite and feldspar; minor amounts of andesite and pink syenite occur.										
14'10"	18'6"	Pink syenite pyrite on fracture. Pb / / 1% : flecked throughout										
	17'3"	Zn on fracture 112° to core axis										
18'6"	24'8"	As above; dark black rock type, possibly dioritic, differentiation product of syenite caused by assimilation of country rock										
	23'7"	Zn on fracture 33° to core axis										
	23'9"	Pb contained in broken pieces										
	24'1"	Pb in fracture in broken piece:										
	24'3"	Pb, Zn flecked in rock in vicinity of fracture but not in fracture plane.										
25'	27'3"	<u>Broken Section:</u> fracturing, siliceous rock										
27'3"	27'9"	<u>Siliceous Breccia:</u>										
		END OF HOLE 27'9"										

EM. 6 - 1168

LANGRIDGE LIMITED.



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines L mited
 HOLE NO. 72-19A LENGTH 330'
 LOCATION 41 + 57W, 12 + 18 S North Grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 0° DIP -45°
 STARTED March 22, 1972 FINISHED March 24, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°				
200	-45°				
330	-47°				

HOLE NO. 72-19A SHEET NO. 1

REMARKS _____

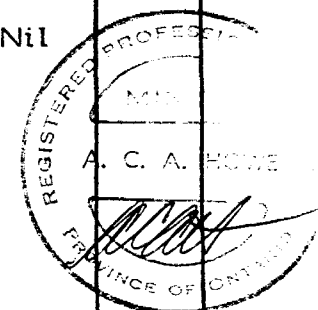
CASING LEFT IN HOLE

LOGGED BY N. Brewster

EM. 6-1168

LANGRIDGE LIMITED,

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	oz/TON		
					FROM	TO	TOTAL						
0	11"	Casing											
11'	20'	<u>Intermediate to Andesitic Rock:</u> contains sections of syenite											
16'2"	16'8"	Basic syenite											
17'8"	18'	Syenite, lower contact 80° to core axis											
18'4"	19'7"	Basic syenite, contains portions of andesitic material											
20'	35'	<u>Dark Siliceous Rock Type:</u> inplaces has the appearance of gneissic syenite, alternating with bands of rhyolitic trachytic material. This section is also cut by brick red fine grained / 1mm syenite in spots.											
26'7"	27'3"	Brecciated section, angular fragments cemented with calcite / 1% combined Pb & Zn in fracture bordering fragments	4415		26'7"	30'	3'5"	0.01	0.11	0.20	Nil		
28'9"	28'10"	Long axis of clasts 130°											
29'	29'1"	Syenite band											
31'8"	31'9"	Contact between two rock types 50° to core axis											
33'2"	33'10"	Gneissosity 52° to core axis (possibly represents an original tuff injected by syenite)											
34'7"		Rhyolitic Section											
		Banded pyrite and magnetite 55° to core axis; epidote on outer margins of band	4416		30'	35'	5'	0.03	0.26	0.09	Nil		
		Red syenite, non-brecciated but broken and cut by fractures. Copper and lead 1 - 2% contained in fractures, 49° and 90° to core axis. Zn / 1%.											
		Lead and copper in irregular fractures, 20° to core axis, rock heavily chloritized.											

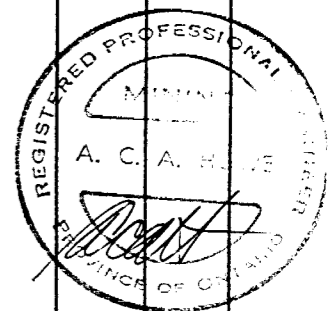


DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 19A SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	OZ/TON
					FROM	TO	TOTAL				
35'	39'8"	<p><u>Basic Syenite:</u> chlorite and epidote - 65% feldspars - 35%</p> <p>Cu, Pb, Zn, / 1% contained in hairline fractures; this section well broken, fracture zone.</p>	4417		35'	40'	5'	0.03	0.05	0.29	Nil
39'8"	46'9"	<p><u>Chlorite, Epidote rich section</u> with interjections of syenite which are quite basic; contacts poor</p>	4418		40'	47'	7'	0.05	0.27	0.66	0.02
41'11"	42'11"	siliceous section with pyrite									
43'3"	46'9"	lead, zinc mineralization on fractures 1%									
	43'6"	fracture 90° to core axis									
	44'	fracture 13-° to core axis									
46'9"	50'	<p><u>Syenite:</u> fine grained, brick red; lead (/ 1%) contained in epidote filled fractures, cutting the syenite.</p> <p>Chlorite, epidote, phenocrysts 8%</p> <p>There appears to be a minor (/ 1%) amount of lead disseminated in the pyrite</p>	4419		47'	50'	3'	0.01	0.21	0.47	Nil
50'	50'11"	<u>Syenite:</u> fractured; mineralization Pb / 1%									
50'11"	52'5"	<u>Chlorite Section:</u> with minor syenite, Pb, Cu	4420		50'	55'	5'	0.01	0.53	0.94	0.02
52'5"	57'5"	<p><u>Fracture Zone:</u> containing fragments of brick red syenite; epidote occurs between fragments.</p> <p>Pb, Zn throughout this section in fractures and between fragments</p> <p>Zn 1% - 2%</p> <p>Cu / 1%</p> <p>Pb / 1%</p>	4421		55'	60'	5'	0.01	0.77	1.34	Nil
57'5"	59'	<u>Syenite:</u> brick red; Pb / 1% occurs in association with fractures but not on fracture planes, appears disseminated in places.									

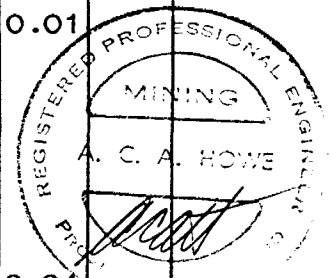


DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 19A SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	OZ/TON	
					FROM	TO	TOTAL					
59'	59'8"	<u>Chloritic Section:</u> probably small zenolith in syenite Pb 1%, Zn 1%; fractures 25° to core axis										
59'8"	60'	<u>Syenite:</u> mineralized fractures parallel to and 135° to core axis.										
60'	62'4"	<u>Basic Syenite:</u> / 1% mineralization	4422		60'	65'	5'	0.01	0.85	1.82	Trace	
62'4"	63'4"	<u>Siliceous Section:</u> Zn in fractures 20° to core axis										
63'4"	66'5"	<u>Chloritic Section:</u> Pb, Zn mineralization 2%; fractures 20° to core axis										
66'5"	67'4"	<u>Syenite:</u> brick red; Pb 1%										
67'4"	70'	Fracture zone, composed of basic <u>syenite</u> , brick red syenite and chlorite fragments in a chloritic talc matrix. Pb - Zn mineralization 2%.	4423		65'	70'	5'	none	1.10	1.88	0.02	
	69'5"	Zn on fracture 160° to core axis										
70'	71'	<u>Basic Syenite</u>										
71'	73'7"	<u>Siliceous Section:</u> light grey green colour . / 1% mineralization	4424		70	73'2"	3'2"	0.01	0.22	0.56	0.01	
73'7"	75'	<u>Chlorite Section:</u> / 1% mineralization										
75'	78'2"	<u>Chloritic Section:</u> containing portions of basic syenite, Pb, Zn contained in fractures cutting rock.										
	77'2"	fracture 113° to core axis										
	78'2"	fracture 140° to core axis	4425		73'2"	81'2"	8'	none	0.57	0.60	0.04	
78'2"	80'5"	<u>Brick red Syenite:</u> - broken section, Pb, Zn on fractures / 1%										
80'5"	81'	<u>Ground Core</u>										

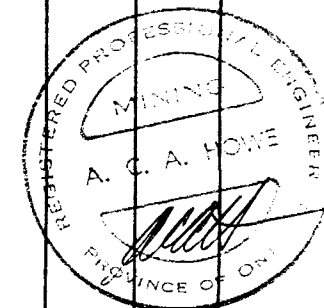


DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 19A SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS													
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	OZ/TON								
					FROM	TO	TOTAL												
81'	83'10"	<u>Siliceous Rock</u> light green white in colour																	
83'10"	85'4"	Pink <u>Syenite</u> : light green, altered section																	
85'4"	87'11"	<u>Siliceous Rock</u> : light grey green white in colour, subclastic texture, mineralogy predominately biotite and feldspar, possible massive flow tuff. 1% pyrite, 2% epidote																	
87'11"	92'4"	<u>Basic white syenite</u> : biotite 60% - 70%; 1 - 2 mm feldspar 30% - 40%; 1 - 2 mm subhedral grains																	
92'4"	94'2"	<u>Siliceous Section</u> : light pale green, predominantly altered to epidote																	
100'	115'2"	Altered <u>Andesitic Volcanic</u> , dark green chlorite rich rock.																	
115'2"	119'6"	<u>Cherty Section</u> : white in colour, contains injection of gneissic syenite. Biotite 40%; feldspar 60%																	
119'6"	129'	<u>Iron Section</u> : magnetite occasionally separated by cherty material; in other instances iron found sparodically in green chloritic rock.																	
	122'6"	Banding (chert, pyrite, pyrrhotite) 48° to core axis.																	
129'	150'	<u>Syenite</u> : pink colour, upper contact 50° to core axis; syenite mafic where assimilation has occurred. Chlorite is the predominant mafic, composing up to 90% of the rock in affected location, in these situations zoned feldspars occur as phenocrysts, varying from 1mm - 1cm in size.																	
135'3"	137'	Basic syenite																	
140'10"	148'10"	Basic syenite, lower transition line 30° to core axis. The transition from basic syenite to normal syenite is pronounced and sharp.																	



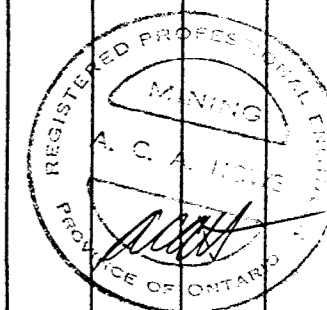
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 19A

SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	OZ/TON		
					FROM	TO	TOTAL						
150'	152'7"	<u>Basic Syenite</u>											
152'7"	159'8"	<u>Pink Syenite</u>											
159'8"	164'5"	<u>Basic Syenite</u> : mineralogy - chlorite } biotite } 85 - 90% feldspar 10% quartz 4% grain size: 1 - 2 mm											
164'5"	200'	<u>Iron Section</u> : iron content is very lean, however it occurs in sporadic bands across entire section.											
174'6"	175'	Band of massive magnetite											
178'8"	179'2"	Band of massive magnetite; upper contact 25° to core axis											
179'9"	181'3"	Iron section; upper contact 25° to core axis. Elsewhere in the section magnetite occurs in thinner bands separated by grey white cherty material.											
	192'	Pyrite band parallel to core axis											
	193'6"	Banded pyrite, chert 132° to core axis											
200'	250'	<u>Cherty Section</u> : the rock in this section is dark grey white in colour; minor iron (< 5%) occurs throughout the section. Pyrite 5% banded with chert.											
	208'	Banding 20° to core axis											
217'3"	218'7"	Basic syenite; this is a broken zone											
221'9"	228'6"	Broken section, fracturing											
	224'	Syenite band, contacts 20° to core axis											
231'	232'10"	Broken section, fracturing											
	233'9"	Banding (chert, pyrite, chlorite) 20° to core axis											
	239'10"	Syenite band 35° to core axis											
		Throughout the section chlorite intervenes both as bands with pyrite and chert, and as blebs contained in the cherty material. When this occurs the chlorite is usually surrounded by a pyrite halo.											



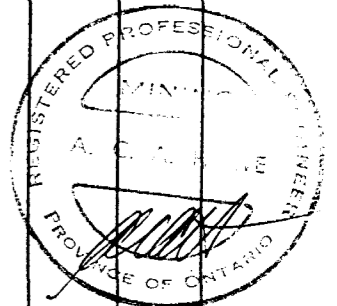
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 19A

SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	OZ/TON	
					FROM	TO	TOTAL					
250'	275'	Chlorite rich section, <u>Altered Andesite</u> ; there are minor sections of dark grey white cherty material as described above.										
251'	251'2"	Cherty material; contacts upper 25° to core axis lower 60° to core axis										
	252'1"	Band 135° to core axis										
256'10"	258'2"	Banded section composed of chlorite, epidote and cherty rock. Bands 90° to core axis, 126° to core axis, 140° to core axis.										
	264'	Talcose bleb										
266'9"	268'6"	Blue talcose blebs occur through this section usually surrounded by a halo of brown muscovite minerals with magnetite close by, diameter of blebs varying from 1.5 cm to 2 cm										
	268'6"	Syenite band, upper contact 90° to core axis										
275'	330'	<u>Altered Andesite</u> : dark green black chlorite rich rock type, probably altered equivalent of andesite.										
278'7"	278'11"	Syenite band 15° to core axis										
285'	286'	Syenite band										
291'	291'9"	Syenite band, upper contact 15° to core axis										
320'3"	321'3"	Syenite band containing magnetite, sphalerite(?) Contacts 20° to core axis										
		<u>END OF HOLE 330'</u>										



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited
 HOLE NO. 72 - 20 LENGTH 239'
 LOCATION 42 + 07 W 12 + 98 S North Grid
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 352° DIP -45°
 STARTED March 26, 1972 FINISHED March 27, 1972

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
239	-45°				

HOLE NO. 72 - 20 SHEET NO. 1

REMARKS _____

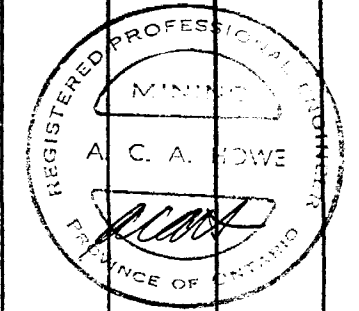
CASING LEFT IN HOLE

LOGGED BY N. Brewster

EM, 6-1168

LANGRIDGE LIMITED,

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	9'	Casing										
9'	19'7" 11'4"	<u>Altered Andesite</u> : green grey in colour, chlorite rich rock type Lead smear on fracture										
19'7"	40'3"	<u>Basic Syenite</u> : the rock is green red in colour, mineralogy consists of: (1) red feldspar (orthoclase) 70% (2) chlorite 25% - 28% (3) sericite 2% Grain size (1) 1 - 4 mm texture is subgneissic (2) 1 - 2 mm Epidote occurs in fractures. fracture zone										
20'	22'											
40'3"	50'	<u>Chloritic Section</u> : dark green colour <u>Mineralogy</u> white feldspar 10 - 30% chlorite 40 - 60% biotite 30% quartz / 1% <u>Grain size</u> 1 - 3 mm 5 mm 2 mm										
50'	50'8"	<u>As Above</u>										
50'8"	58'2"	<u>Basic Syenite</u> : upper contact 90° to core axis lower contact 92° to core axis In both cases contacts are sharp and with well defined										



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 20 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
				FROM	TO	TOTAL				
50'8"	58'2"	continued								
		gneissosity 30° to core axis. Mineralogy: biotite } 40% orthoclase } 60% chlorite } plagioclase }								
58'2"	65'10"	<u>Pink Syenite:</u> orthoclase 97% biotite 3% the orthoclase exhibits zoning.								
65'10"	72'8"	<u>Basic Syenite:</u> upper contact 113° to core axis lower contact 20° to core axis								
72'8"	77'4"	<u>Syenite:</u>								
77'4"	78'4"	<u>Chlorite Section</u>								
78'4"	96'6"	<u>Basic Syenite:</u> gneissic, dominantly chloritic.								
96'6"	100'	Salmon pink rock type cut with fractures varying from 25° to core axis; parallel to core axis; and 90° to core axis. The latter variety are present as unfilled voids. The feldspars have begun to alter to clay white (kaolonite) minerals. Chlorite is also present in a soft decomposed state. Carbonates present on fracture planes.								
100'	115'3"	<u>Pink Syenite</u>								
100'	104'5"	Broken fracture zone								
115'3"	118'6"	<u>Iron Section:</u> banded iron and cherty material with chlorite. Lower contact 140° to core axis								



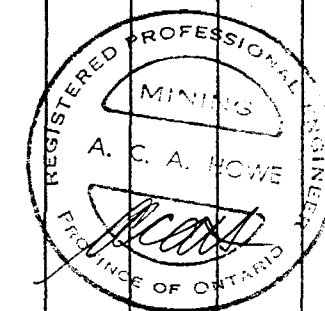
DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 20

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
				FROM	TO	TOTAL					
118'6"	120'	<u>Pink Syenite</u>									
120'	122'11"	<u>Andesite</u> : dark green black in colour, feldspar phenocrysts (1%); lower contact 144° to core axis.									
122'11"	136'9"	<u>Siliceous (cherty) Tuff</u> : dark grey white in colour.									
125'	128'	minor (< 5%) epidotization of the rock									
	133'7"	banding (bedding) 48° to core axis									
130'6"	131'6"	predominant bands of red syenite material interlayered with tuff (migmatite) bands 30° to core axis									
136'9"	149'	<u>Altered Andesite</u> : dark green chlorite rich rock type.									
138'5"	141'5"	As described in 120' - 122'11"									
144'	144'6"	Basic syenite									
144'6"	145'8"	As above, 122'11" - 136'9"									
149'	150'	<u>Syenite</u>									
150'	152'7"	<u>Syenite</u> : this is also a broken section									
152'7"	153'7"	<u>Basic Syenite</u>									
153'7"	166'	<u>Pink Syenite Section</u> : contains inclusions of chlorite rich rock									
154'	154'4"	Chlorite rich section, magnetite									
155'	156'3"	Chlorite rich section, magnetite									
163'2"	164'6"	As above									
	165'6"	Magnetite present in the syenite									
166'	167'7"	<u>Chlorite Rich Section</u> : non-magnetic									
167'7"	167'11"	<u>Syenite Band</u> : upper contact 60° to core axis									
167'11"	168'6"	<u>Chlorite Rich Section</u> : non-magnetic									



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 20 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
168'6"	169'8"	<u>Syenite:</u> upper contact 110° to core axis lower contact 125° to core axis									
169'8"	172'9"	<u>Chlorite Rich Section:</u> magnetic, iron zone									
172'9"	173'8"	<u>Syenite:</u> lower contact 110° to core axis									
173'8"	175'	<u>Chlorite Rich Section:</u> containing magnetic zones									
175'	193'11"	<u>Altered Andesite:</u> dark green black chlorite rich zone									
	182'6"	magnetic section									
191'7"	191'11"	syenite section									
193'5"	193'11"	magnetic section									
193'11"	195'	<u>Syenite Band:</u> upper contact 20° to core axis									
195'	196'2"	<u>Chlorite Rich Section</u>									
196'2"	199'2"	<u>Syenite Band:</u> lower contact 160° to core axis									
199'2"	200'	<u>Banded Chlorite Rich Section:</u> tuffaceous, slightly magnetic									
200'	219'1"	<u>Altered Andesite:</u> dark green chloritic volcanic rock type									
202'10"	203'5"	Syenite									
219'1"	236'8"	<u>Iron Section:</u> magnetite intermixed with chlorite bands, interspaced with grey white cherty material.									
227'7"	228'8"	iron section									
229'6"	236'	iron, upper contact 30° to core axis									
231'	232'3"	iron									
		other iron bands occur throughout the section but are of a more limited nature. Sulphides, pyrite, pyrrhotite (<u>//</u> 1% chalco) occur throughout the section. Mode of occurrence is banded to									



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 20 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
219'1"	236'8"	continued										
(231'	232'3")	spotty , where chalco occurs it is in close association with pyrite and pyrrhotite.										
236'8"	239'	<u>Chlorite Rich Section:</u> upper contact 54° to core axis										
		END OF HOLE 239'										

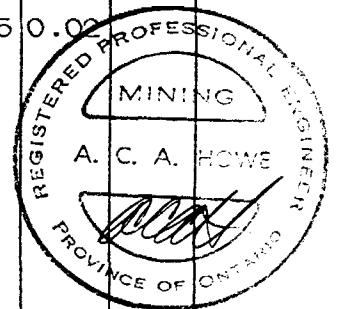


DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 21 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	OZ/TON	
					FROM	TO	TOTAL					
50' to 100' continued												
86'5"	92'3"	Epidotized Section										
	91'10"	Talc filled fracture										
93'1"	100'	Epidotized Section										
	94'5"	Lead in hairline fracture in syenite										
	98'4"	Lead smear on fracture, 50° to core axis, calcite present.										
	99'9"	Lead smear on fracture										
100'	150'	Intermediate to Siliceous Rock Type: grey in colour, except for footage 125' - 136'6" the whole section has been epidotized to a pale green colour.										
105'		Zinc on fracture 50° to core axis	4442		104'4"	107'4"	3'	0.01	0.02	0.15	0.02	
105'3"		Zinc occurring between parallel fractures 47° to core axis in epidotized rock										
106'1"		Zinc on fracture 113° to core axis, fractures commonly filled with epidote										
109'6"		Zinc on fracture 125° to core axis	4443		107'4"	115'	7'8"	0.02	0.05	0.10	0.01	
110'5"		Speck of chalcopryrite										
111'		Magnetite in syenite										
112'		Zinc on fracture 150° to core axis										
112'4"		Zinc										
112'9"		Zinc and chalcopryrite on fracture 150° to core axis										
117'6"		Zinc on fracture 80° to core axis, epidote filled	4444		115'	120'	5'	0.02	0.05	0.15	0.02	
117'9"		Zinc and chalcopryrite on fracture, 100° to core axis; epidote filled										
119'4"		Zinc on fracture										
119'6"		Zinc bleb										
123'1"		Zinc on fracture 130° to core axis										
124'2"		Zinc on fracture 115° to core axis										



DIAMOND DRILL RECORD

NAME OF PROPERTY Marshall Boston Iron Mines Limited

HOLE NO. 72 - 21

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	%	OZ/TON	
					FROM	TO	TOTAL					
100'	150'	continued										
	144'8"	Lead smears on fracture, 140° to core axis										
	148'4"	Zinc blebs on fracture, 145° to core axis										
	149'1"	Zinc on fracture, 150° to core axis										
150'	174'2"	<u>Rock Type:</u> as above epidotized except for section 151'6" - 152'8"										
154'4"	162'3"	Chalcopyrite / 1% in strongly epidotized section	4441		154'	162'2"	8'2"	0.18	0.10	0.11	0.03	
	155'9"	Chalcopyrite, zinc, lead, on fracture 142° to core axis										
	156'10"	Chalcopyrite, zinc, lead, on fracture 110° to core axis										
158'6"	160'	Fragmented section cemented by epidote, contains lead / 1%										
173'11"	174'1"	Syenite band carrying specks of lead										
174'2"	189'7"	<u>Altered Andesite:</u> chlorite rich section, magnetic in places										
180'6"	181'6"	Syenite band										
185'	187'2"	Magnetite visible through this section										
189'7"	201'6"	<u>Syenite:</u> mafics vary from 1% to 20% (193'8" - 194'3") feldspar varies from 80% - 99%; epidote / 1%										
201'6"	250'	<u>Chlorite rich rock type:</u> dark green, green black mica is the dominant mineral. This rock is also magnetic. Magnetite visible in places										
	228'1"	Syenite band contacts 50° to core axis										
237'9"	240'	Syenite band										
244'	246'	Magnetite visible through this section; blue talcose blebs occur, surrounded by a halo of brown mica (muscovite, phlogopite)										
250'	276'	As above (201'6" - 250') lower contact 130° to core axis										
276'	287'	<u>Basic Syenite Remnants:</u> (assimilation zone)										
287'	291'10"	As above (250' - 276')										
291'10"	293'4"	<u>Syenite:</u> upper contact 35° to core axis										
293'4"	300'	As above (250' - 276')										
		END OF HOLE 300'										



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+00 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°				

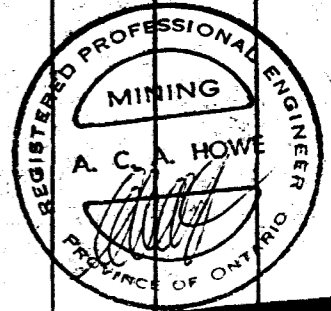
HOLE NO. 72-25 SHEET NO. 1
 REMARKS Hole designed to undercut previous zinc zone at 200'
Some mineralization, Pb, Zn, Cu obtained
 LOGGED BY N. Brewster

EM. 6-1168

LANGRIDGE LIMITED.

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	10'	CASING									
10'	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 PORPHYRY: inequigranular, 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%.									

252/12 Marshall Boston Iron Mines



DIAMOND DRILL RECORD

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

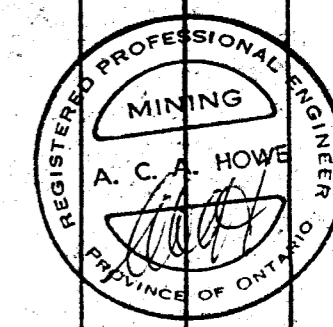
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-25 SHEET NO. 2
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	TO	TOTAL	%	%	OZ/TON	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 buffaceous 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 possess 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

3

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

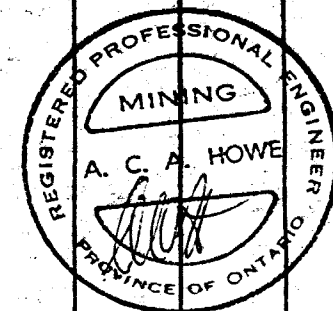
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-25 SHEET NO. _____
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	%	%	OZ/TON	OZ/TON	
86'3"	106'	<p>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 gneissoid character (94'3") i.e. parallelism of light and dark minerals segregated.</p> <p>93'10" - 94' Syenite vein 101'6" Pyrite 103'3" - 103'10" Pyrite through this portion</p>										
106'	115'	<p>MAFIC SECTION: Soft micaceous (biotite) pyroxene, talcose section. 114'2" - 114'8" inclusion visible</p>										
115'	133'	<p>SYENITE: Pink, mineralogy consists of:</p> <p style="padding-left: 100px;">Feldspars 90% Bafics 5 - 10% (pyroxene)</p> <p>The top and bottom contacts are sharply defined, gradational mafic change occurs toward the lower portion of the syenite.</p>										
133'	144'	<p>MAFIC SECTION as above, green in colour, magnetite present. 136'3" - 137'10" Micaceous soft section.</p>										
144'	145'	<p>SYENITE</p>										

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 _____

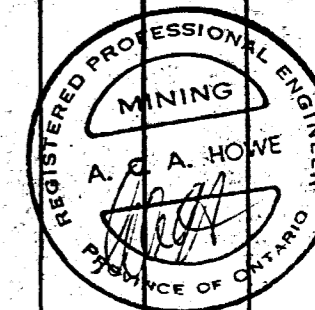
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-25 SHEET NO. 4
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
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.									
	167'5"	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 possesses a red hue, pyrite minor 1%									

EM. 6-1168

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

Marshall Boston Iron Mines Limited

72-25

5

NAME OF PROPERTY _____
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. _____

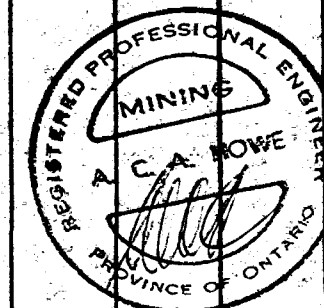
REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS												
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON									
		FROM			TO	TOTAL													
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" Sanding 40° to c.a. 197'3" Pyrite band 25° to c.a. interbanded with magnetite and pyrrhotite, minor \llcorner 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" Sanding 13° to c.a.																	
207'3"	211'9"	SYENITE 207'3" Upper contact sharp 26° to c.a. Mineralogy consists of the following:- <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Mineral</th> <th>%</th> <th>Grain Size</th> </tr> </thead> <tbody> <tr> <td>White & pink orthoclase</td> <td>90</td> <td>5mm - 1cm</td> </tr> <tr> <td>Mafics (pyroxene - cleavage (chlorite- folia not elastic)</td> <td>5-10</td> <td>1 - 3 mm</td> </tr> </tbody> </table>	Mineral	%	Grain Size	White & pink orthoclase	90	5mm - 1cm	Mafics (pyroxene - cleavage (chlorite- folia not elastic)	5-10	1 - 3 mm								
Mineral	%	Grain Size																	
White & pink orthoclase	90	5mm - 1cm																	
Mafics (pyroxene - cleavage (chlorite- 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 _____

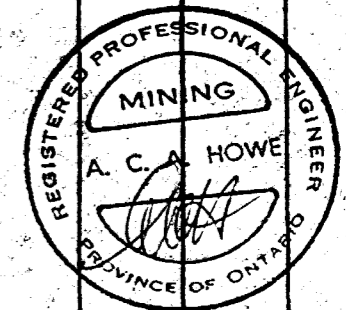
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-25 SHEET NO. 6
 REMARKS: _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	oz/ton	oz/ton	
					FROM	TO	TOTAL				
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
		237'2"-237'11" Brecciated section	4474		245'	247'3"	2'3"	0.01	0.09	0.38	0.01
		237'10" Zinc on fractures parallel to and 90° to c.a.	4475		247'3"	250'	2'9"	0.01	0.76	0.96	0.03
		238'8" Zinc on fracture 114° to c.a.	4476		250'	255'	5'	0.04	0.21	0.28	0.02
		239'5" Zinc in fine grained syenite vein (2mm wide) 18° to c.a.	4477		255'	260'	5'	0.01	0.50	1.08	0.05
		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' 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.



DIAMOND DRILL RECORD

72-25

7

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

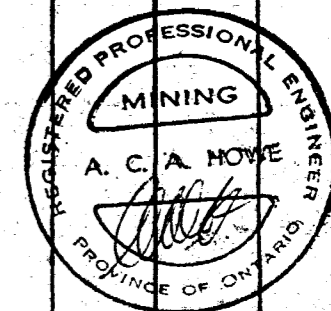
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. _____
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	EXTRACT	OZ/TON	
					FROM	TO	TOTAL				
237'	250'	continued									
	247'11"	Zinc contained in fractures 30° to c.a., the apex of this fracture opens up and is calcite filled.									
	243'8"	Lead, zinc 20° to c.a.									
	249'6"	Syenite breccia section									
250'	254'										
	250'8"	Chalcopyrite \angle \angle 1% disseminated in pyrite									
	251'4"	Pyrite banding 25° to c.a.									
	251'9"	Small \angle 1 mm lead vein parallel to c.a.									
	252'1"	Small \angle 1 mm lead vein 31° to c.a.									
	252'7"	Zinc veinlet 47° to c.a.									
	253'	Banding (pyrite) 7° to c.a.									
254'	257'6"	Mafic rock type consisting of soft, bright fine green pyroxenes and black mafics (mica pyroxene) garnets \angle 1 mm	4478		260'	265'	5'	0.02	0.19	0.70	0.02
	256'3"	Zinc on fractures 30° to c.a.	4479		265'	270'	5'	0.03	0.26	0.50	0.05
	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

72-25

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

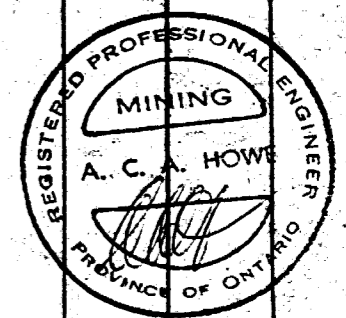
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. _____
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	% Cu	% Pb	% Zn	oz/ton Ag
254'	267'6"	continued									
		258'4" Zinc veinlet 25° to c.a.									
		258'10" Zinc filled fractures 20° to c.a., 50° to c.a.									
		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 $\angle\angle$ 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 STENITE									
304'4"	311'	SILICIFIED, epidotized section, Zinc mineralization \angle 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'	0.06	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., 28° 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"	STENITE VEIN									

EM. 6-1168

LANGRIDGE LIMITED.



DIAMOND DRILL RECORD

Marshall Boston Iron Mines Limited

72-25

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NAME OF PROPERTY _____
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. _____

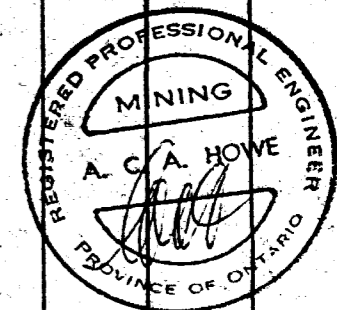
REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
317'6"	329'	ALTERED DARK GREEN MAFIC ROCK TYPE, weakly carbonated garnets $\angle 15$ 321' - 322'6" Magnetite section, iron bearing							
329'	330'5"	ZINC MINERALIZATION $\angle 15$							
330'5"	347'2"	TUFFACEOUS: Siliceous grey white rock type, green hue given by partial epidotization. Pyrite $\angle 15$ 336'8" Pyrite banding 22° to c.a. 345'6" Minor lead mineralization $\angle \angle 15$ 347'4" Zinc blebs in calcite vein							
347'2"	349'6"	TALOSE 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

Marshall Boston Iron Mines Limited

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 _____

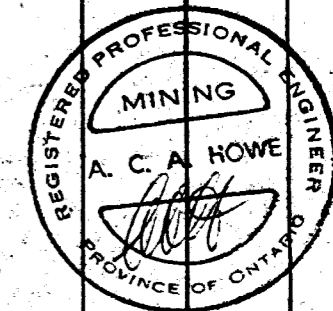
Minor amounts of lead, zinc mineralization found in core

LOGGED BY N. Brewster

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
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 micaceous matrix.									
28'	46'7"	MICACEOUS 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%.									

EM. 6-1168

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

Marshall Boston Iron Mines Limited

NAME OF PROPERTY _____
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-26 SHEET NO. 2

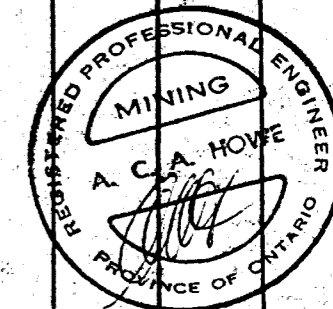
REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS																		
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON															
63'4"	82'2"	<p>ALTERED VOLCANIC: Mineralogy consists of the following:</p> <table border="1"> <thead> <tr> <th>Mineral</th> <th>%</th> <th>Grain Size</th> </tr> </thead> <tbody> <tr> <td>Biotite</td> <td>10-15</td> <td>3m</td> </tr> <tr> <td>Granular translucent bright green (epidote)</td> <td>25</td> <td>1m</td> </tr> <tr> <td>Subhedral salmon pink orthoclase</td> <td>60</td> <td>3m</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td></td> </tr> </tbody> </table> <p>The epidote forms around but independent of the orthoclase. Hackly breakage. The micaceous nature of the rock increases dramatically within one foot of the lower contact.</p>	Mineral	%	Grain Size	Biotite	10-15	3m	Granular translucent bright green (epidote)	25	1m	Subhedral salmon pink orthoclase	60	3m	Quartz	1								
Mineral	%	Grain Size																						
Biotite	10-15	3m																						
Granular translucent bright green (epidote)	25	1m																						
Subhedral salmon pink orthoclase	60	3m																						
Quartz	1																							
82'2"	85'8"	<p>SILICEOUS ROCK TYPE: Dense non-crystalline rock breaks with conchoidal fracture, flaky texture, subhedral 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.</p>																						
85'8"	88'	<p>Mixed section of mafic and syenitic rock</p>																						
	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.



DIAMOND DRILL RECORD

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

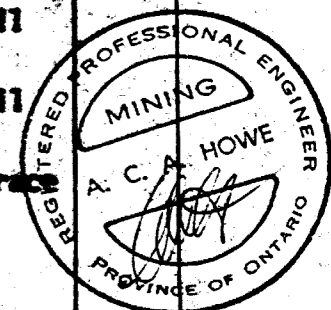
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-26 SHEET NO. 3
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	PERCENT	OZ./TON	
				FROM	TO	TOTAL					
88'	89'6"	TUFFACEOUS Quartzose feldspathic section, grey white in colour..Slight IS disseminated pyrite; Minor L IS 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" L L IS 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 L IS 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	
		109' parallel to c.a.	4488	115'	120'	5'	0.01	0.03	0.09	Nil	
		109'7" 90° to c.a.	4489	120'	125'	5'	0.02	0.09	0.23	Trace	
		120'9" 27° to c.a.									

EM. 6-1168

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

Marshall Boston Iron Mines Limited

NAME OF PROPERTY _____
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-26 SHEET NO. 4

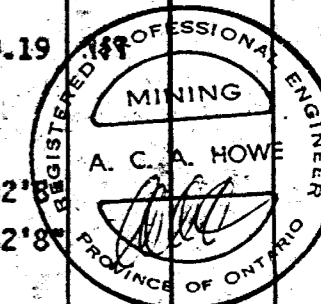
REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	XXXXX OZ./TON	OZ./TON			
					FROM	TO	TOTAL						
108' 10"	121' 10"	continued											
	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 [L] 1 no sugary textured mafic rock type. Light minerals feldspar 20% Dark minerals 50%	4490		125'	130'	5'	0.02	0.09	0.18	111		
	122' 11"	Zinc in fracture 90° to c.a. Pyrite 1%.											
128'	131' 10"	SILICEOUS feldspathic sub-granular buffaceous rock type, grey white in colour. Finely disseminated pyrite 1%.	4491		130'	135'	5'	0.04	0.10	0.19			
	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											
		- Pb											
		across 32' 8"											
		across 32' 8"											

EM. 6-1168

LANGRIDGE LIMITED,



DIAMOND DRILL RECORD

Marshall Boston Iron Mines Limited

NAME OF PROPERTY _____
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 72-26 SHEET NO. 5

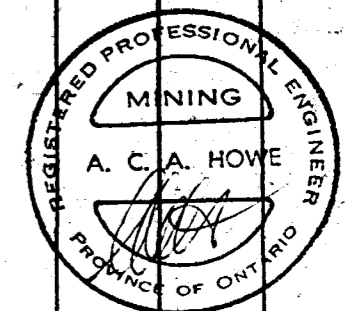
REMARKS _____

LOGGED BY _____

EM. 6-1168

LANGRIDGE LIMITED,

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS																
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	oz/TON	oz/TON													
					FROM	TO	TOTAL																
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:																					
		<table border="1"> <thead> <tr> <th>Mineral</th> <th>%</th> <th>Grain Size</th> </tr> </thead> <tbody> <tr> <td>Green black mica</td> <td>60-70</td> <td>3 mm</td> </tr> <tr> <td>white & pink feldspar</td> <td>10</td> <td>1 mm</td> </tr> <tr> <td>Light green mineral epidote</td> <td>20</td> <td>1 mm</td> </tr> </tbody> </table>	Mineral	%	Grain Size	Green black mica	60-70	3 mm	white & pink feldspar	10	1 mm	Light green mineral epidote	20	1 mm									
Mineral	%	Grain Size																					
Green black mica	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																					



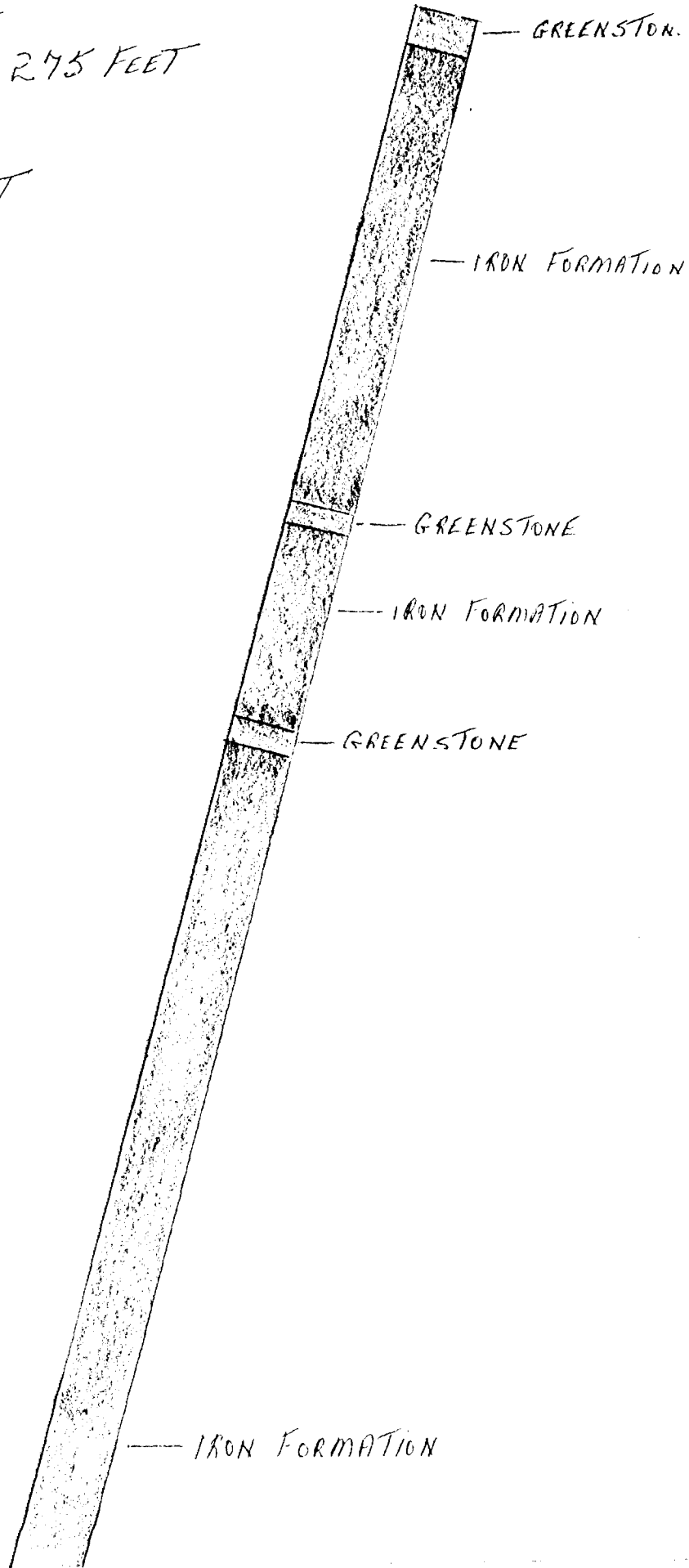
HOLE # 2

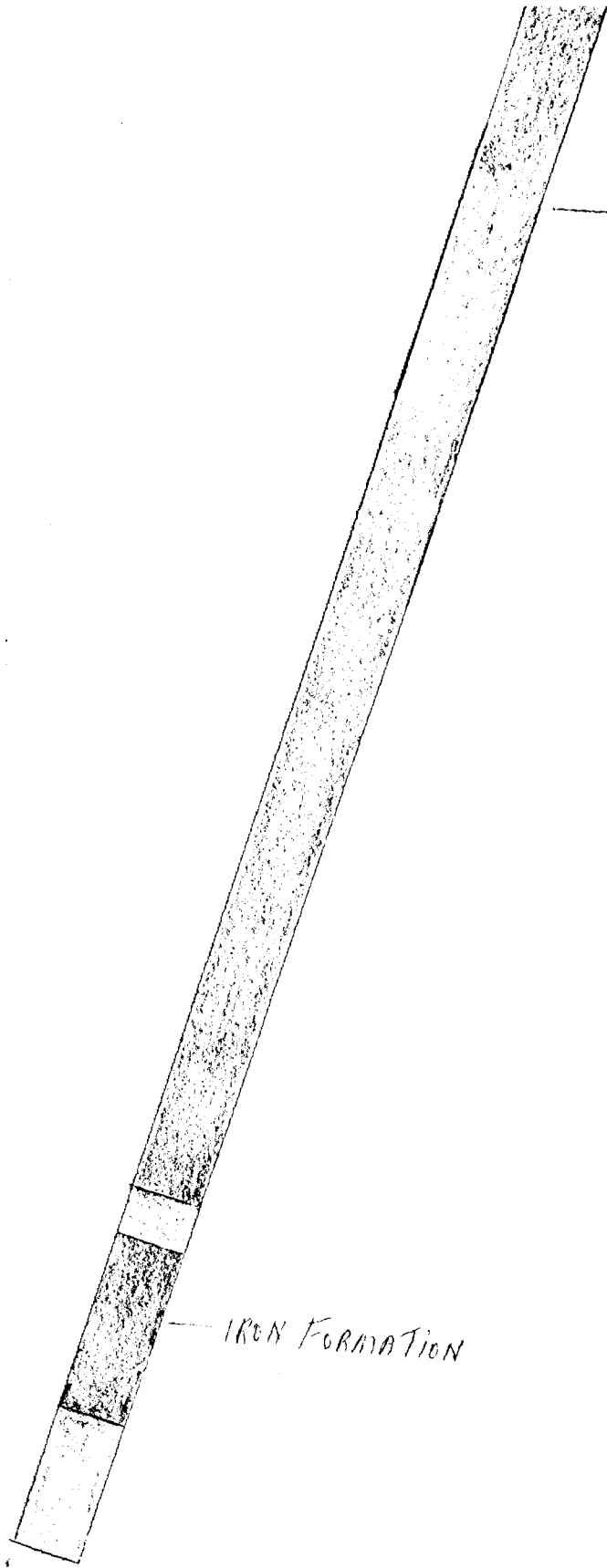
CLAIM L 42991

45° ANGLE

DEPTH 275 FEET

SCALE 1 INCH = 16 FEET

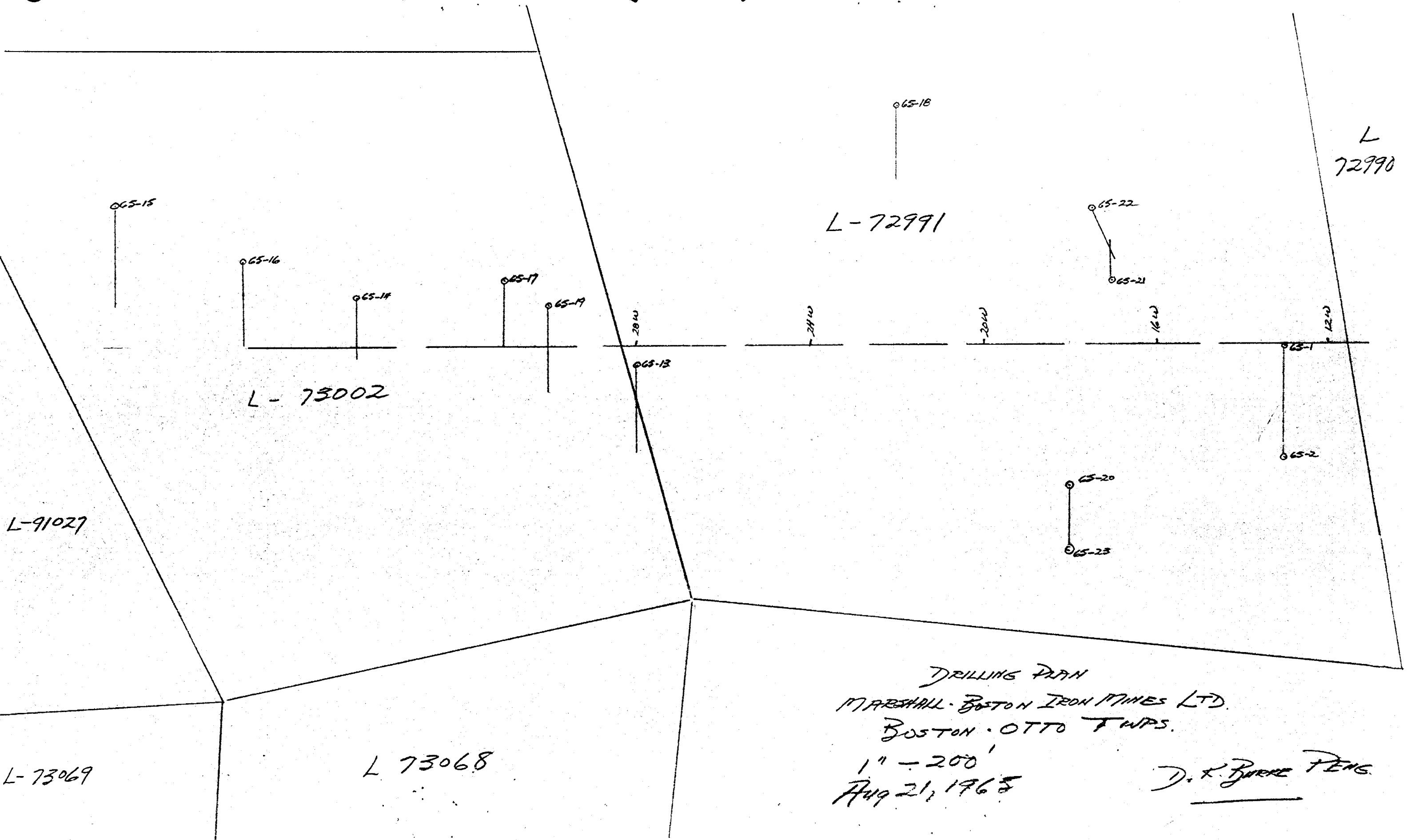




IRON FORMATION

IRON FORMATION

R. J. Marshall 2



L-91027

L-73069

L-73002

L 73068

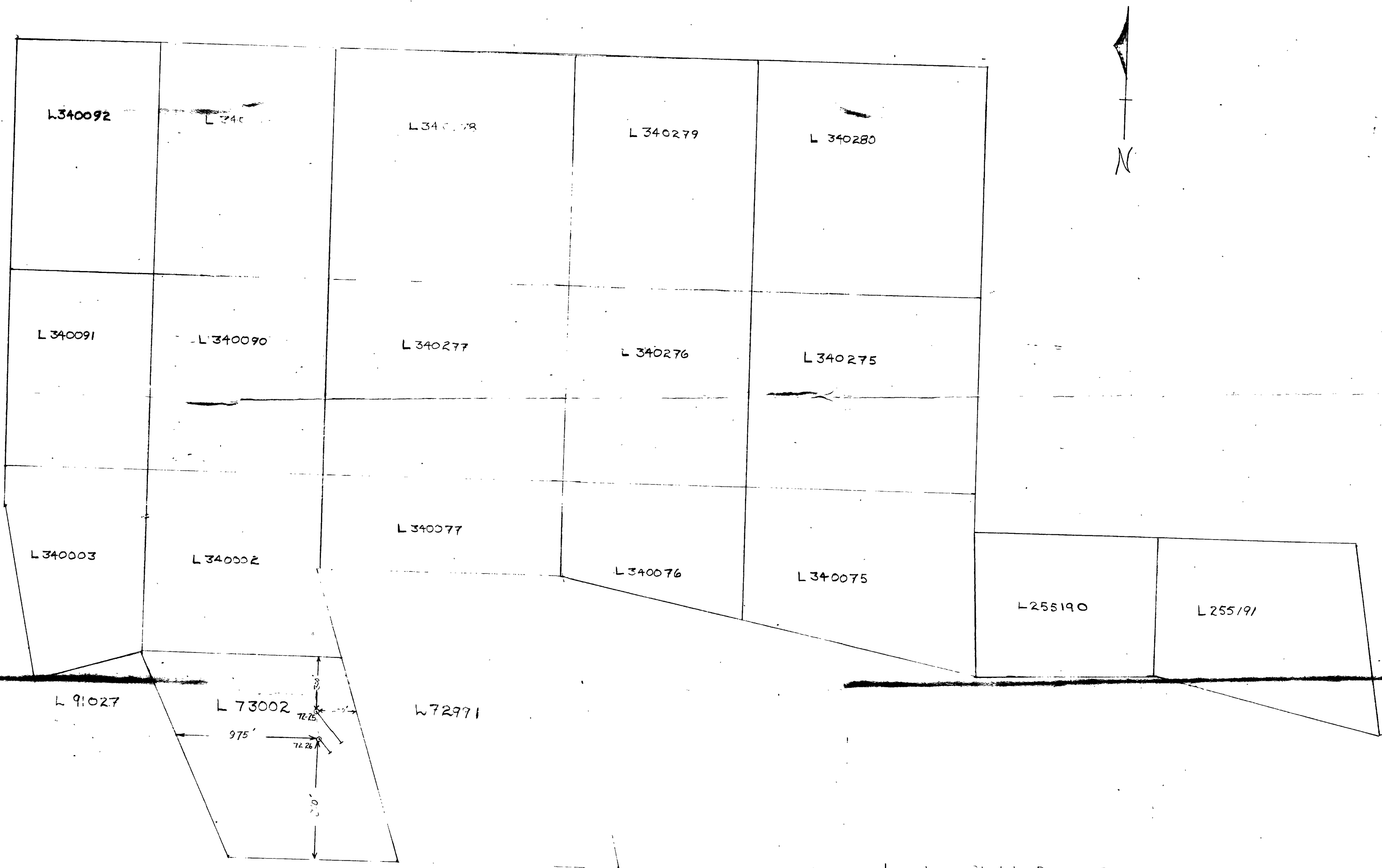
L-72991

L
72990

DRILLING PLAN
MARSHALL-BOSTON IRON MINES LTD.
BOSTON-OTTO FWPS.

1" - 200'
Aug 21, 1965

D. F. BURKE FENG



Location Sketch, Diamond Drill Sites Claim L73002
 MARSHALL BOSTON IRON MINES LTD L.L. 252
 Scale 1"=500' August, 1972



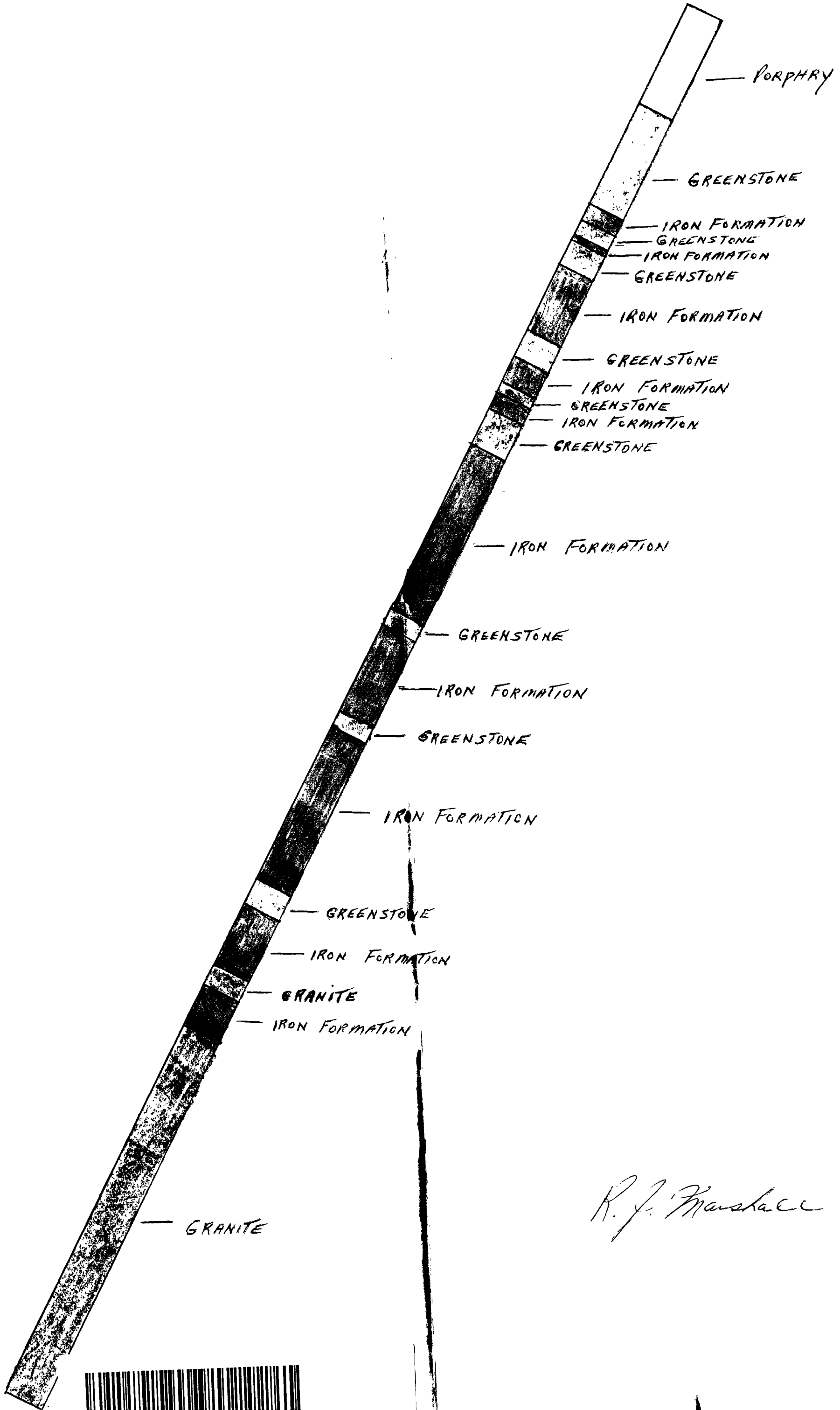
320645W8355 27 BOSTON

HOLE # 1
45° ANGLE

SCALE - 1
1 INCH = 16 FEET

CLAIM # L. 73002
+ L. 73991

DEPTH - 275 FEET



R. J. Marshall

