

DIAMOND DRILLING



010

TOWNSHIP: Lendrum

REPORT No.: 12

WORK PERFORMED BY: Algoma Steel Corp.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
SSM 542612	MB-6-81	375.0	July/81	(1)

NOTES: (1) #106-81

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ALGOMA ORE DIVISION
 THE ALGOMA STEEL CORPORATION, LIMITED
 EXPLORATION DEPARTMENT

PROPERTY: MICHIPICOTEN BASE METALS - ANOMALY #6

DIAMOND DRILL HOLE NO. MB-6-81

COORDINATES OF COLLAR

A: L 16 E

B: 2+50 S

HOLE LENGTH 375 feet

CORE SIZE AQ

STARTED July 10, 1981

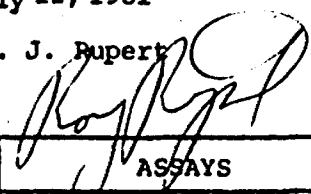
FINISHED July 12, 1981

AZIMUTH AT COLLAR 335° (Grid N)

DIP AT COLLAR -45° 51° @ 160'

ELEVATION Not Referenced

LOGGED BY R. J. Rupert



FOOTAGE	DESCRIPTION	ASSAYS	
		Au oz./s.t.	Ag oz./s.t.
	<u>SUMMARY LOG</u>		
0 - 70.0	Casing in sandy clay		
70.0 - 294.0	Andesite or Basalt Flows Six or seven flows of pale grey medium grained to coarse grained andesite or basalt with saussuritized feldspar phenocrysts in a green chloritic matrix.		
294.0 - 338.0	Interbedded sections of laminar graphitic chert and relatively massive talcose fine grained to medium grained green tuff. CA varies 15° to 40°. Weakly magnetic due to presence of pyrrhotite in some sections. Est. 3% pyrrhotite, 1/2% pyrite average throughout.		
338.0 - 375.0	Andesite or Basalt 1 1/2 flows of pale grey fine grained to medium grained andesite as from 70.0-294.0'.		
375.0	END OF HOLE		

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A: L 16 E

B: 2+50 S

HOLE LENGTH 375 feet

CORE SIZE AQ

STARTED July 10, 1981

FINISHED July 12, 1981

AZIMUTH AT COLLAR 335° (Grid N)

DIP AT COLLAR -45° 051° @ 160'

LOGGED BY R. J. Rupert

ELEVATION 47° @ 355'

FOOTAGE	DESCRIPTION
<u>DETAIL LOG</u>	
0 - 70	Casing
70 -	AQ Core
70 - 294	<p>Andesite or Basalt Flows</p> <p>Centres of flows are medium grained to coarse grained pale grey with +60% saussuritized feldspar phenocrysts in a green chloritic matrix.</p> <p>Grain size gradations indicate tops towards base of hole.</p> <p>Tops @ 85' - fine grained section</p> <p>113' - very fine grained section 113-114.5'</p> <p>fine grained section to 118'</p> <p>coarse grained at 124'</p> <p>146' - fine grained section, tops down hole</p> <p>CA 55°-68°.</p> <p>146-200.5' - 5% random distinctive veins of carbonate up to 1/2" wide with 5% pyrrhotite, 2% pyrite, 5% crystalline black hornblende at decreasing intervals downwards to 175' then decreasing in size but increasing in frequency to 200.5'.</p> <p>175-200.5' flow top, feldspar has habit similar to 146-175'.</p>

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DIAMOND DRILL HOLE NO MB-6-81

FOOTAGE	DESCRIPTION	ASSAYS	
		Au oz/s.t.	Ag oz/s.t.
70 - 294.0 Contd.	<p>200.5-243.5' - Chilled fine grained at 200.5' Medium grained at 207' Coarse grained at 212' Fine grained with soft black mafic phenocrysts from 224-243.5' Very fine grained from 242.5-243.3'</p> <p>243.5-258.0' - Medium grained at 244' Fine grained at 248' Very fine grained at 257' Laminated 257.7-258' CA 70°-75°</p> <p>258.0-276.0' - Mottled flow Pale, very irregular mottled patches of lighter coloured material, sometimes with included darker zones</p> <p>276.0-276.7' - Tuff or gray flow top debris or base of next flow - laminar</p> <p>276.7-294.0' - Flow +70% relatively unaltered feldspar in grey biotite-sericite rich matrix. Medium grained at 278' Coarse grained at 281-284' Medium grained at 284' Becomes fine grained at 294' 284-294' distinct foliation CA ~45°</p>		
294.0 - 338.0	<p>Interbedded sections of laminar graphitic chert and relatively massive talcose fine grained - medium grained green tuff. CA varies 15° to 40°. Weakly magnetic due to pyrrhotite.</p> <p>294.0-294.5' - Laminar grey to black chert banding up to 1/2" minor pyrite (<1%)</p> <p>294.5-295.5' - Laminar black very graphitic chert. 2% pyrite</p> <p>295.5-296.0' - Fine to medium grained talcose massive</p> <p>296.0-297.7' - As from 294.5-295.5 but less intensely graphitic banding in grey chert up to 1" at end of section. 2% pyrite in laminae to 1/16". CA 35° to 40°.</p>		

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DIAMOND DRILL HOLE NO MB-6-81

FOOTAGE	DESCRIPTION	ASSAYS	
		Au oz/s.t.	Ag oz/s.t.
294.0 - 338.0 Contd.			
	297.7-310.0' - Fine grained, banded soft talcose dark grey tuff 3% patchy silica laminae Banding to 2" wide, but mainly rather massive < 1/4% pyrite, associated with siliceous laminae Lower contact gradational		
	310.0-311.5' - Banded pale green-grey talcose tuff Banding to 1/8" at 310.5' may be cross-beds CA -60° Lamination at 311.5' CA +30°		
	311.5-311.6' - Siliceous laminae		
	311.6-316.5' - Intensely graphitic chert laminated at 30-35° Becomes softer with talcose bands at 315.6' Lower contact gradational 3% pyrite, 1% pyrrhotite		
	316.5-324.0' - Soft fine grained dark grey massive talcose tuff at 316.5' Becomes pale green very talcose at 324.0'. Carbonate veinlets to 1/8" = 4%.		
	324.0-326.0' - Mixed zone - transitional Disturbed banding to 1" wide 4% pyrrhotite, 2% pyrite		
	326.0-326.7' - 20% chert fragments rounded to 1/8" diameter in matrix of graphitic chert and pyrite Est. 15% pyrite, trace pyrrhotite, trace chalcopyrite		
	326.7-330.5' - Laminar very graphitic very fine grained siliceous rock at 327' Becomes soft banded graphitic fine grained tuff at 330.0' CA contorted 15° to 25°		
	330.5-331.3' - Sharpstone breccia fragments of chert to 1" angular equidimensional in fine grained matrix as at 330'. 15% pyrrhotite, 2% pyrite		

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DIAMOND DRILL HOLE NO. MB-6-81

FOOTAGE	DESCRIPTION	ASSAYS				
294.0 - 338.0 Contd.		<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Au</td> <td style="text-align: center;">Ag</td> </tr> <tr> <td style="text-align: center;">oz/s.t.</td> <td style="text-align: center;">oz/s.t.</td> </tr> </table>	Au	Ag	oz/s.t.	oz/s.t.
Au	Ag					
oz/s.t.	oz/s.t.					
	331.3-333.0' - Banded quartzite 75-80% medium grained-coarse grained chert grains in dark grey graphitic matrix. 5% pyrite, 2% pyrrhotite in matrix. Lower contact is sharp and disconformable at 65°					
	333.0-336.8' - Soft black graphitic talcose vaguely banded to massive very fine grained tuff. < 5% coarse grained to very coarse grained rounded chert fragments in final 1.0'. < 1% pyrrhotite and pyrite					
	336.8-337.6' - Laminar intensely graphitic schist (35%) and fine grained to medium grained re-crystallised chert (45%), 20% carbonate bands to 1/4". CA contorted 50° to 200°. 15% pyrrhotite from 336.8 to 337.2' in graphitic section. Average for whole section 7% pyrrhotite. Siliceous carbonate bands increase towards end of section.					
	337.6-338.0' - Banded carbonate (70%) and silica (20%), 10% chlorite and talc.					
338.0 - 375.0	Andesite Pale grey fine grained to medium grained at coarsest section. 338.0-355.0' - Amygdular for 6" at 338'. Becomes fine grained at 355'. 355.0-368.0' - Possible flow. Quartz-carbonate veinlets to 1/4" at 6" intervals increasing to 30% in final 2'. 368.0-375.0' - Massive fine grained to medium grained andesite.					
375.0	END OF HOLE					

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PROPERTY

MICHIPICOTEN BASE METALS - ANOMALY #6

DIAMOND DRILL HOLE NO MB-6-81

FOOTAGE	DESCRIPTION	
	<u>SAMPLE ORDERS</u>	
	294.0 - 296.0	2.0' 30791
	296.0 - 298.0	2.0' 30792
	298.0 - 304.0	6.0' 30793
	304.0 - 310.0	6.0' 30794
	310.0 - 311.5	1.5' 30795
	311.5 - 316.5	5.0' 30796
	316.5 - 320.0	3.5' 30797
	320.0 - 324.0	4.0' 30798
	324.0 - 326.0	2.0' 30799
	326.0 - 327.0	1.0' 30800
	327.0 - 330.5	3.5' 30806
	330.5 - 333.0	2.5' 30807
	333.0 - 336.5	3.5' 30808
	336.5 - 338.0	1.5' 30809
	(14) <u>44.0'</u>	
	Avg. 3.15'	

LENDRUM

#106-81

GROS CAP

INDIAN

RESERVE

No. - 49

B.Y. 36

Cinders Lake

BRIENT

Falcite Lake

B.Y. 37

MICHIPICOTEN HARBOUR P.O.

B.Y. 6

GROS CAP

K03
K02
K01
CK167

Clorque I.

4M

842602

F.119

CK 494

3M

2M

ALGOMA

C.K. 147

TREMBLEY

CK 148

GRAVEL
File 114200

GRAVEL
File 114200

GRAVEL
File 114200

WIDEN FROM STATION UNDER SEC 35 (1871) MINING ACT File 149303

Block No 1

GRAVEL
File 114200

U.S. CENTRAL

WIDEN FROM STATION UNDER SEC 35 (1871) MINING ACT File 160701

U.S. CENTRAL

U.S. CENTRAL

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E.O. 12

MAGPIE FALLS

M. GRAVEL
File 149303

SSM

SSM

SSM

SSM	SSM	SSM
842610	842609	842608
SSM	SSM	SSM
842613	842612	842611
SSM	SSM	
842618	842614	

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RAILWAY

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

CL. 1114

SSM 542613

SSM 542609

SSM 542612

165' MB-6-B1

580'

SSM 542615

SSM 542614

Michigan B.M. Proj.

DWDN Location Sketch

MB-6 / -B1

Scale 1" = 200'

Oct 9-81

J. C. GRAY

J. C. Gray
Oct 9-81