

41N01SW9177 18 NICOLET

010

# Diamond Drilling

Township of NICOLET

Report NO 18

Work performed by: New Senator-Rouyn Limited

Claim NO	Hole NO	Footage	Date	Note
SSM 63382	NS-9	545.0'	July/66	(1)
SSM 63384	NS-10	172.0'	Oct/67	(1)
	NS-11	1003.0'	Oct/67	(1)
	NS-12	1000.0'	Nov/67	(1)
	NS-13	1000.0'	Dec/67	(1)
	NS-14	708.0'	Jan/68	(1)

TOTAL: 6 DH 4428'

### Notes:

(1) Logs from Lands Administration-claims gone to lease.

DIAMOND DRILL LOG

28-13  
NICOLET

Hole NS-9

Location: Claim SSM 63382  
L38W, 1,500'N, 100'W

Started: July 11, 1966  
Completed: July 15, 1966

Strike: N50°E  
Dip at collar: -55°  
Length: 545.0

Logged by Matthew Blecha

- 0.0' Casing
- 21.0' Quartz-feldspar porphyry. link, rel. fresh, massive, 10% coarse euhedral feldspar phenos, and 5% Qtz eyes.
- 35.5' Fault, h. chlorid, shattered rock, core badly broken up.
- 39.0' As at 21.0'
- 72.0' Gabbro, f.gr'd., dark green, low chlorid, rel. mass. Minor fracturing throughout; 2-3% hem-carb. stringers.
- 202.0' Trap (?) diabase (?) dyke, dark grey, aphanitic to f.Gr'd, sharp, chilled contacts at 70' c.n.
- 224.0' Gabbro, as at 72.0', gradually becoming med-coarse gr'd, 312.0' White Qtz vein.
- 315.0' Gabbro, as at 224.0'.
- 315.5' Grey porphyry dyke. The succession from 315.5 - 344.0' may be a composite dyke similar to that found at the Breton zone.
- 321.0' Felsophyre, pale pinkish grey, low sericite, med gr'd. feldspar and quartz phenos, trace diss'd pyrite, sharp irregular contact.
- 335.0' Grey porphyry dyke, as at 315.5'
- 343.0' Quartz vein.
- 344.0' Gabbro, amphibole-rich, massive, coarse gr'd, dark green
- 406.0' Trap (?), diabase (?) dyke, as at 202.0' Sharp, chilled upper contact at 70' c.n.
- 415.0' Felsophyre, as at 321.0', green, fine gr'd, low-med. ser'd, mineralized with a dark grey, metallic (unidentified) mineral, possibly galena (?) along fractures, and very finely disseminated in rock. 2-3% finely disseminated pyrite.
- 475.0' Gabbro, dark grey, massive, but with several foliated zones, and occasional fracturing. Note Qtz-~~rich~~ veins, at 525- 526.5'. Gabbro becoming massiv, fresh, and fairly coarse gr'd near end.
- 545.0' End of hole.

Matthew Blecha

# DIAMOND DRILL LOG

PROPERTY: *New Senator - Rouyn Ltd.*

HOLE NUMBER: *N.S. 10*

LOCATION: *Batchawana Bay, south of Tribay Mining Co.*

DIP TESTS

Latitude: *1100 N*

Dip: *Vertical*

Footage

Reading

Corrected

Departure: *11,600 W*

Depth: *172'*

*Claim SSM-63384*

Elevation:

Commenced: *October 12, 1967.*

*AX core.*

Azimuth:

Finished: *October 18, 1967*

Logged by: *S.V. Burr*

*Stored at Tribay Mining Core Shack.*

SAMPLE NUMBER	DESCRIPTION		
	<i>0.0-28.5' - Casing - in boulders.</i>		
	<i>28.5-172.0 - Volcanics. Grey to green, medium fine grained to fine. Some lineations and possible contacts 55°-60° to core.</i>		
	<i>28.5-151.0 - Sparse fracturing with epidote, fine quartz and/or carbonate at low angles to core. Minor alteration.</i>		
	<i>41.5-43.5 - a few med-coarse stringers of chalcopyrite in fine, short fractures, generally down core.</i>		
	<i>78½, 83, 100, 112½, 113½, 137, 142 - narrow carbonate-filled shear zones with chlorite at low angles to core. A touch of molybdenite and chalcopyrite on chlorite slip at 78½.</i>		
	<i>151-172 - Incipient brecciation becoming more evident, with considerable hematite staining in fractures. Minor quartz.</i>		
	<i>151½-163 - 2%-3% pyrite-pyrrhotite with negligible chalcopyrite.</i>		
	<i>End of Hole - 172 feet</i>		
	<i>(abandoned due to unsuccessful cementing attempts on sand seams from 120-170 feet.)</i>		

*S.V. Burr*

# DIAMOND DRILL LOG

PROPERTY: New Senator - Rouyn Ltd.

HOLE NUMBER: NS-11

LOCATION: Batchewana area. Claim SSM 63384

DIP TESTS

Latitude: 108°0'N

Dip: 90°

Footage

Reading

Corrected

Departure: 11,750 W

Depth: 1003'

Elevation:

Commenced: Oct 19, 1967

AX Core

Azimuth:

Finished: Nov. 11, 1967

Logged by:

J.V. Burr

Core stored at Trebag Mining Core Shack.

SAMPLE NUMBER	DESCRIPTION		
0-16	- Casing (boulders)		
16-24	- <u>Volcanics?</u> - med. grained, greenish. Some quartz fracturing with distinct but minor chalcopyrite - generally vertical fracturing.		
22'	- 1/2" quartz-carbonate - chlorite slip with touch of Moly and chalcopyrite.		
24-67.5	- <u>Diabase - Gabbro</u> - med coarse with minor intercalated volcanics. Fine scattered epidotized fracturing. Here and there, some fine pyrite with minor chalcopyrite in fractures.		
31 1/2 - 33 1/2	- barren qtz vein, 30°-45° to core.		
34 1/2 - 35	- considerable epidote in fractures. Trace of fine chalcopyrite.		
67.5 - 75.3	- <u>Volcanics</u> - some tuffaceous beds, minor faulting and brecciation. 1%-2% pyrite with traces chalcopyrite.		
75.3 - 177.5	- <u>Diabase - Gabbro</u> - as above. Generally barren, but more hematite-stained fracturing and quartz.		
110 1/2 - 111 1/2	- Some coarse chalcopyrite, representing, however, no more than 1% of the rock. Again, the mineralized fracturing is down the core.		
177.5 - 323	- <u>Volcanics</u> - with minor <u>Diabase</u> - much incipient brecciation & discoloration including some felsitization? Very sparse pyrite + minor chalcopyrite starting about 190. Some barren quartz veinlets accompanying the larger areas of alteration.		

# DIAMOND DRILL LOG

PROPERTY:

HOLE NUMBER: *NS-11*

LOCATION:

DIP TESTS

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

*(page 2)*

Elevation:

Commenced:

Azimuth:

Finished:

Logged by:

*S.V. Burn*

SAMPLE NUMBER	DESCRIPTION			
	<i>211-225 - touches of chalcopryite, but still sparse.</i>			
	<i>225-323 - more brecciation in evidence and core begins to look more and more like the Tribag East Breccia. Also more pyrrhotite and pyrite in fractures with increasing uniformity, but chalcopryite is less in evidence.</i>			
	<i>323-366.5 - <u>Quartz Breccia</u>. up to 40% quartz, similar in appearance to outcrop and first 40 feet of hole NS-3. Quartz very tight and barren except for slight pyrite and chalcopryite in first 2 feet.</i>			
	<i>366.5-367 - <u>Fault</u> - mud gouge, carbonate-chlorite. Broken, barren.</i>			
	<i>367-630.7 - <u>Volcanics</u> - scattered altered fracturing and weak incipient brecciation - the latter becoming indistinct and lacking from 375 on. A noticeable feature is that the bedding contacts, quartz stringers and fracturing are becoming more and more normal to the core indicating that the volcanics are flattening. Generally barren.</i>			
	<i>434.2-436.2 - somewhat brecciated zone with 4" massive "black jack" sphalerite and galena from 434.4 - 434.8 with some chalcopryite in upper portion and weak dissemination below.</i>			
	<i>434.2-435.2 -</i>	$\frac{Cu}{0.45\%}$	$\frac{Pb}{6.44\%}$	$\frac{Zn}{11.45\%}$
				$\frac{Ag}{4.77\%}$

# DIAMOND DRILL LOG

PROPERTY:

HOLE NUMBER: *N. 5-11*

LOCATION:

DIP TESTS

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

*(page 3)*

Elevation:

Commenced:

Azimuth:

Finished:

Logged by:

*S. V. Beer*

SAMPLE NUMBER	DESCRIPTION		
	<i>(Barren carbonate-filled chlorite slip, 30° to the core, at 435')</i>		
	<i>450.8 - 452.8 - barren carbonate - chlorite slips at low angles to core.</i>		
	<i>From 468 - slight increase in erratic minor pyrite - chalcopyrite mineralization, generally in fractures.</i>		
	<i>610.8 - 614.9 - <u>Felsite</u> dyke, chilled contacts. Upper contact 45° to core, lower 55°. Barren.</i>		
	<i>630.7 - 654.7 - <u>Tuffs</u> - with quartz eyes up to 1/4". Bedding 50° - 65° to core. Minor fracturing and alteration. Negligible mineral. <u>Possibly a good marker horizon?</u></i>		
	<i>54.7 - 694.4 - <u>Volcanics</u> - as above. Very little mineral.</i>		
	<i>694.4 - 720.3 - <u>Felsitized tuffs?</u> or <u>Rhyolite tuffs?</u> 30% quartz as tight veins, generally normal to core. Barren. One or two specks of pyrite.</i>		
	<i>720.3 - 756.7 - <u>Chlorite Zone</u> - dark, soft, blocky, chloritized volcanics? Scattered fine fracturing with quartz and epidote. Sparse pyrite.</i>		
	<i>741.6 - 743.6 - brecciated, epidotized zone, barren.</i>		
	<i>756.7 - 765 - <u>Highly altered zone</u> - feldspathization, quartz and carbonate.</i>		
	<i>760 - 764 - 2% crystalline pyrite with touches of galena + sphalerite + two specks of moly.</i>		

# DIAMOND DRILL LOG

PROPERTY:

HOLE NUMBER: *NS-11*

LOCATION:

DIP TESTS

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

*(Page 4)*

Elevation:

Commenced:

Azimuth:

Finished:

Logged by:

*S.V. Burr*

SAMPLE NUMBER	DESCRIPTION
	<p><i>765 - 1003 - Granite</i></p> <p><i>765 - 786 - greenish to slightly reddish. Hard. Apparently, feldspaths to some extent and ferromagn. altered to chlorite. Sparse fine fracturing, lightly pyritized. Fracturing generally filled with chlorite, minor quartz.</i></p> <p><i>786 - 816 - increased reddening with little change otherwise.</i></p> <p><i>816 - 871.5 - green to light red. Increasingly coarser fracturing with correspondingly coarser pyrite. Negligible chalcopyrite.</i></p> <p><i>847.7 - 848.3 - slight concentration of pyrite near qtz - carb fracturing with one or two specks of molly.</i></p> <p><i>871.5 - 1003 increasing but variable reddening and variable alteration - chiefly foliation but some white to yellow earthy clay mineral alteration of the feldspars (similar to Tribois Breton zone high thermal alteration). Fracturing extensive; chiefly down core, and filled with chlorite with sparse pyrite, sericite, white and yellow clay minerals, occasionally, quartz.</i></p> <p><i>882 - 883 - peculiar carbonate breccia with small grey rock fragments and various extremes of alteration down edge of core. Minor pyrite and touch of molly.</i></p> <p><i>956 - 957.5 - strong clay alteration of feldspars</i></p> <p><i>997.5 - 999 - white and red carbonate down core within strong zone of chlorite and hematite - red alteration and small pyrite conc. at 999.</i></p>

*End of Hole - 1003*

*S.V. Burr*

# DIAMOND DRILL LOG

PROPERTY: **NEW SENATOR - ROUYN LTD**

HOLE NUMBER: **NS-12**

LOCATION: **BATCHEWANA, ONT.**

DIP TESTS

Latitude: **980 N**

Dip: **VERTICAL**

Footage

Reading

Corrected

Departure: **11,842 W**

Depth: **1000'**

**CLAIM 55M 63384**

Elevation:

Commenced: **NOV 14, 1967**

Azimuth:

Finished: **DEC 7, 1967**

Logged by:

*J. P. Buri*

Core stored at **Tubaq Core Shack.**

SAMPLE NUMBER	DESCRIPTION		
	0-12 - Casing		
	12-39.4 - <u>Diabase-Gabbro</u> - med grained, dark, blocky, somewhat chloritized. Minor epidote fracturing, generally barren.		
	31.8-33.6 - Quartz vein or strong white to grey silicification. Minor pyrite in chlorite sections		
	39.0-39.4 - disseminated sulphides - mainly pyrite, minor galena, sphalerite, chalcopyrite.		
	39.4-44.9 - <u>Shear Zone</u> - with carbonate and quartz, down core and at low angles to core, with varying degrees of alteration and brecciation. Mineralization is erratic, and consists of pyrite, "black jack" sphalerite, galena and chalcopyrite, in that order. The carbonate is noticeably banded & crenulated.		
2	_____ 39.0-46.5 (7 1/2')	Cu 0.17%	Pb 1.14% Zn 2.31% Ag 0.75 oz/t
	44.9-59.8 - <u>Altered Volcanics</u> - andesitic somewhat silicified with fair to disseminated mineral in first 1 1/2', gradually decreasing to nil.		
	51.5-52.5 - Some pyrite in fracturing		
	57.7-59.5 - Some pyrite, sphalerite & galena in fractures down core.		
	59.8-66.3 - <u>Shear Zone</u> - barren carbonate & some barren quartz down core, with much layering and hematite staining.		



# DIAMOND DRILL LOG

PROPERTY:

LOCATION:

Latitude:

Departure:

Elevation:

Azimuth:

HOLE NUMBER: *NS-12*

(page 2)  
DIP TESTS

Dip:

Footage

Reading

Corrected

Depth:

Commenced:

Finished:

Logged by:

*S.V. Burn*

SAMPLE NUMBER	DESCRIPTION		
66.3 - 67.8	<u>Shear Zone</u> - Layered carbonate down core with some pyrite, sphalerite, galena and chalcopyrite - not as heavy as upper zone.		
67.8 - 89.2	<u>Shear Zone</u> - chloritized and silicified down core with erratic mineral, chiefly pyrite, minor chalcopyrite.		
74.5 - 76.3	Barren fault breccia and carbonate vein at low-angle to core.		
89.2 - 121.5	<u>Volcanics</u> - andesitic, slightly chloritized and silicified. Erratic fine fracturing with spotty chalcopyrite + crystalline pyrite.		
115.5 - 118.5	Quartz vein, 45° to core, with pyrite.		
121.5 - 173.4	<u>Gabbro-Diabase</u> - Fine to med grain. Fine fracturing with spotty chalcopyrite and pyrite.		
139.3 - 173.4	increasing incipient brecciation, quartz + carbonate stringers, feldspathization, silicification + chloritization. Core more blocky and broken. Scattered sparse pyrite and chalcopyrite.		
171.8	Layered carbonate veinlet, 25° to core, with some sphalerite, galena, pyrite + chalcopyrite.		
173.4 - 196.5	<u>Quartz Breccia</u> - similar to that in holes NS-3 and NS-11. Generally barren.		
196.5 - 205.3	<u>Diabase-Gabbro</u> - strongly chloritized with fine fracturing at various angles. Barren.		
200.8 - 203.4	Banded carbonate curving down core. "		
204.0	Strong chloritic slip, 15° to core,		

SSM-520

# DIAMOND DRILL LOG

PROPERTY:

HOLE NUMBER: *NS-12*  
(page 3)  
DIP TESTS

LOCATION:

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

Elevation:

Commenced:

Azimuth:

Finished:

Logged by:

*S.V. Burr*

SAMPLE NUMBER	DESCRIPTION		
205.3 - 239.0	<i>Volcanics - andesitic. Developing the typical weak to fair brecciation common in the Tribag East Breccia. Sparse erratic sulphides - generally pyrite and pyrrhotite, traces of chalcopyrite.</i>		
239.0 - 273.6	<i>Feldspar Porphyry - dioritic. upper contact 5° to core. Scattered fracturing with some strong hematite staining and epidote alteration at 75° - 90° to core. lower contact 80° to core. Barren.</i>		
273.6 - 297.3	<i>Diabase - Gabbro - fine grained in first foot with apparent chilled contact against the feldspar porphyry. Scattered fine epidote fracturing and a couple of quartz stringers almost normal to core. Minor sulphides with traces of chalcopyrite. Lower contact 40° to core, and impossible to judge which rock intrudes other.</i>		
297.3 - 303.3	<i>Feldspar Porphyry - as above, with intense fracturing and alteration at both contacts.</i>		
303.3 - 309.9	<i>Diabase - Gabbro - pepper and salt texture. Upper contact 45° to core with the porphyry apparently intrusive into the diabase - gabbro. Sparse sulphides. Lower contact area has some volcanic inclusions with contacts 60° to core.</i>		
309.9 - 324.7	<i>Volcanics - andesitic. Scattered fine fracturing with minor sulphides. Some bedding contacts and several fractures at 60° to core or more.</i>		
312.4	<i>narrow flow breccia, 80° to core.</i>		

# DIAMOND DRILL LOG

HOLE NUMBER: *NS-12*  
(page 4)  
DIP TESTS

PROPERTY:

LOCATION:

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

Elevation:

Commenced:

Azimuth:

Finished:

Logged by:

*S.V. Burn*

SAMPLE NUMBER	DESCRIPTION
324.3 - 326.5	<u>Feldspar Porphyry</u> - upper sharp contact 70° to core, fractured and altered. Lower contact 35° to core.
326.5 - 628.8	<u>Volcanics</u> - andesitic. Weak brecciation, scattered epidote fracturing with erratic sparse sulfides and touches of chalcopyrite. Bedding at various angles to core down to 1700 feet, indicating complicated folding.
385.0 - 395.4	Several strong epidote zones with sparse chalcopyrite.
445.5 - 447.5	Considerable barren white quartz.
553.7 - 554.3	Strong epidote.
617.5 - 628.8	Flow lines and bedding contacts 70° to 80° to core.
628.8 - 638.4	<u>Tuff. Agglomerate</u> - although similar in many respects to the Feldspar Porphyry, this appears to be a bedded rock with contacts and "bedding" about 70° - 75° to core, with phenoblasts? of feldspar and quartz in an andesitic groundmass.
638.4 - 748.0	<u>Volcanics</u> - andesitic. Scattered fracturing, alteration and quartz-carbonate stringers. Small isolated concentrations of pyrite and chalcopyrite. Flow lines 75° to core. No noticeable increase in chlorite.
733.8 - 735.0	<u>Green Feldspar Porphyry</u> - contacts broken and obliterated.
748.0 - 759.6	<u>Felsite</u> - fine fracturing. Some reddish alteration and silicification.

# DIAMOND DRILL LOG

PRIORITY:

LOCATION:

Latitude:

Departure:

Elevation:

Azimuth:

Dip:

Depth:

Commenced:

Finished:

Footage

Reading

Corrected

HOLE NUMBER: *NS-12*  
(page 5)  
DIP TESTS

Logged by:

*S.V. Burn*

SAMPLE NUMBER	DESCRIPTION
	<p>Upper contact sharp at 45° to core. Lower contact obscured by fracturing and silicification.</p> <p>750.6 - 751.0 - granite inclusion.</p> <p>759.6 - 1000.0 - <u>Granite</u></p> <p>759.6 - 815 - grey to green. High quartz content. Ferromag. altered to chlorite. Very minor, fine sulphide, mainly pyrite.</p> <p>815 - 827.5 - Slips down core with quartz veinlets accompanied by heavy green and red colouration. Sparse fine pyrite.</p> <p>827.5 - 896 - Increasing colouration, feldspathization, silicification &amp; fine dark fracturing. Sparse to negligible sulphides.</p> <p>896 - 909.5 - Essentially a red granite.</p> <p>909.5 - 1000 - Scattered fracturing and more variable colourations to greens and yellows, including a slightly brecciated section from 972 - 974.5. Barren.</p> <p style="text-align: center;">End of Hole - 1000'</p> <p style="text-align: right;"><i>S.V. Burn</i></p>

# DIAMOND DRILL LOG

PROF. BY: **NEW SENATOR - ROUYN LTD**

HOLE NUMBER: **NS-13**

LOCATION: **BATCHAWANA AREA - CLAIM SSM 63384**

DIP TESTS

Latitude: **939 N**

Dip: **55°**

Footage

Reading

Corrected

Departure: **11,872 W**

Depth: **1000'**

**975'**

**60.5°**

**55°**

Elevation:

Commenced: **DEC. 9, 1967**

Azimuth: **N-37°E**

Finished: **JAN. 11, 1968**

Logged by:

*S.V. Burr*

*Stored at Tribag core shack.*

SAMPLE NUMBER	DESCRIPTION		
	0 - 20 - Casing		
	20 - 28.8 - <u>Volcanic</u> - strongly chloritic, soft, crumbly. Apparently barren.		
	28.8 - 45.0 - <u>Quartz Zone</u> - bluish and brittle, but mineralized in small amounts where fractured, with pyrite, galena, chalcoppyrite and sphalerite, particularly from 30 - 38.5'		
9206	- 30 - 38.5 - (8½') - $\frac{Cu}{0.05\%}$ $\frac{Pb}{0.17\%}$ $\frac{Zn}{0.03\%}$ $\frac{Ag}{0.10\%}$ oz.		
	45.0 - 49.7 - <u>Breccia Zone</u> - siliceous breccia at first, grading into epidote breccia and ending in coarse ribboned calcite. Generally barren.		
	49.7 - 55.0 - <u>Diabase-Gabbro</u> - chloritic and soft.		
	55.0 - 58.7 - Carbonate and Quartz in <u>Shearing</u> , generally barren.		
	58.7 - 160.5 - <u>Volcanics</u> - andesitic, some quartz, fine fracturing.		
	58.7 - 67.5 - sparse sulphides		
	67.5 - 80.5 - increasing sulphides (pyrite, chalcoppyrite and sphalerite) as disseminations, and cherty silicification. Mineralization particularly coarse at low angles to core (some galena) from 68.5 - 69.6 and 77.8 - 79.4		
9207	- 67.5 - 71.3 (3.8') - $\frac{Cu}{0.10\%}$ $\frac{Pb}{0.82\%}$ $\frac{Zn}{1.43\%}$ $\frac{Ag}{0.43\%}$ oz.		
9208	- 71.3 - 79.4 (8.1') - $\frac{Cu}{0.03\%}$ $\frac{Pb}{0.37\%}$ $\frac{Zn}{0.52\%}$ $\frac{Ag}{0.19\%}$ oz.		
	80.5 - 160.5 - darker, less siliceous, more chloritic. Scattered epidote and quartz fracturing		

# DIAMOND DRILL LOG

PROJECT:

HOLE NUMBER: *NS-13*

LOCATION:

(*page 2*)  
DIP TESTS

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

Elevation:

Commenced:

Azimuth:

Finished:

Logged by:

*S. V. Burr*

SAMPLE NUMBER	DESCRIPTION		
	Minor pyrite and chalcopyrite, increasing somewhat with fine silicification from 116-132 and around 138-139.5.		
9209	- 115.8-123.9 (8.1') -	$\frac{Cu}{0.08\%}$	$\frac{Ag}{0.09\%}$
9210	- 123.9-132.0 (8.1') -	0.14%	0.11%
	160.5-189.0 - <u>Diabase-Gabbro</u> - fine grained near contacts, med. fine in centre. Scattered fine fracturing, barren.		
	189.0-205.0 - <u>Chloritic Zone - Volcanics?</u> - Scattered carbonate stringers + some silicification. Barren. Tending in strong slip, 10° to core.		
	205.0-227.5 - <u>Volcanics - andesitic</u> . Soft and chloritic. Scattered fracturing and quartz stringers. Barren.		
	227.5-230.5 - <u>Quartz Breccia</u> - touch of pyrite.		
	230.5-258.0 - <u>Diabase-Gabbro</u> - med. fine. Scattered barren qtz. stringers and alteration around fractures. Scattered sparse chalcopyrite from 251-258.		
	258.0-263.0 - <u>Volcanics - andesitic</u> . Fractured + feldspathized.		
	263.0-275.0 - <u>Diabase-Gabbro</u> - Upper contact at 65°, lower at 45° to core. Fine grained. Some altered fracturing and minor quartz breccia with touch of chalcopyrite.		
	275.0-509.0 - <u>Volcanics - andesitic</u> . Increasing fracturing and incipient brecciation with depth very similar to rock in the Tubag East Breccia. Scattered sulphide mineralization		

# DIAMOND DRILL LOG

PROPERTY:

HOLE NUMBER: *NS-13*  
(page 3)  
DIP TESTS

LOCATION:

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

Elevation:

Commenced:

Azimuth:

Finished:

Logged by:

*S.V. Burn*

SAMPLE NUMBER	DESCRIPTION
	<p>appearing to increase at depth - mainly pyrite, pyrrhotite and minor chalcopyrite.</p> <p>376.6 - 379.7 - Fair concentration of pyrrhotite, chalcopyrite + pyrite. (Strongest sulphide concentration to date in NS-10 - NS-13 inclusive).</p>
9211	<p>376.6 - 379.7 - (3.1') - <math>\frac{Cu}{0.40\%}</math> <math>\frac{Ag}{0.15\%}</math>.</p> <p>405.7 - 408.2 - Below a 2' barren carbonate breccia, a good concentration of chalcopyrite over 3" and other fine fractures with minor chalcopyrite</p>
9212	<p>405.7 - 408.2 - (2.5') - <math>\frac{Cu}{0.47\%}</math> <math>\frac{Ag}{0.12\%}</math>.</p> <p>421.5 - veinlet at low angle to core with coarse pyrite, sphalerite, galena and chalcopyrite</p>
9213	<p>421.0 - 422.4 - (1.4') - <math>\frac{Cu}{0.10\%}</math> <math>\frac{Ag}{0.28\%}</math>.</p> <p>505 - 509.0 - altered. Some quartz breccia and feldspathization.</p> <p>509.0 - 566.1 - <u>Feldspar Porphyry</u> - Green. Fine fracturing. Sparse pyrite.</p> <p>528.0 - 539.8 - Some fracturing at low angles to the core, a little pyrite, followed by strong feldspathization + narrow quartz breccia, also at low angle to the core.</p> <p>566.1 - 639.8 - <u>Volcanics</u> - andesitic. As above with weak brecciation, scattered pyrite, minor chalcopyrite</p>

SSM-520

# DIAMOND DRILL LOG

PROPERTY:

HOLE NUMBER: *NS-13*  
 (page 4)  
 DIP TESTS

LOCATION:

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

Elevation:

Commenced:

Azimuth:

Finished:

Logged by:

*S. V. Burn*

SAMPLE NUMBER	DESCRIPTION			
	571.2-571.6 - Barren qtz veinlet, 60° to core.			
	615 - 639.8 - increasing pyrite mineralization in fractures and disseminations, with some chalcopyrite in quartz at 615.3'.			
	638.2 - Carbonate in strong chlorite at 30° to core. - <u>Fault?</u> Some pyrite.			
	639.8-652.1 - <u>Feldspar Porphyry</u> - contacts highly altered and broken. Somewhat banded, generally parallel to the volcanic bedding (80° to core). May be <u>tuff?</u> Some barren qtz.			
	652.1-670.8 - <u>Volcanics</u> - andesitic. Weak incipient brecciation. Scattered barren qtz and carbonate stringers.			
	659 - chlorite-carbonate zone over 8". Some pyrite.			
	668-668.5 - <u>Feldspar Porphyry</u> - fine grain, siliceous.			
	670.8-684.5 - <u>Feldspar Porphyry</u> - Generally siliceous. Upper contact appears to be fine grained, but lower contact is not. Both contacts are apparently conformable with volcanics. Scattered qtz-carbonate stringers at various angles.			
	683.2 - pyrite with chlorite-carbonate.			
	684.5-779.8? - <u>Volcanics</u> - with incipient brecciation as above. Several distinct fault breccias with quartz and/or carbonate, with chloritic fragments, and some hematite staining, particularly down to 698'. Minor pyrite throughout.			



# DIAMOND DRILL LOG

PROPERTY:

HOLE NUMBER: *NS-13*

LOCATION:

(*page 5*)  
DIP TESTS

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

Elevation:

Commenced:

Azimuth:

Finished:

Logged by:

*S.V. Burn*

SAMPLE NUMBER	DESCRIPTION
	704.5 - 705.3 - Some chalcopyrite in fractures preceding a chlorite-carbonate breccia.
	779.8? - 808.8? - <u>Diabase-Gabbro</u> - The upper and lower contacts are difficult to define over five to nine feet. <u>May be coarser phase of the volcanics.</u> Generally massive, med. fine grained. Scattered fracturing and reddening with some pyrite.
	808.8? - 829.5 - <u>Volcanics</u> - andesitic. Incipient brecciation as above. Some epidote fracturing. Generally barren.
	829.5 - 843.0 - <u>Feldspar Porphyry</u> - Green colour. Minor barren qtz stringers. Upper contact broken & ill-defined. Lower contact steep, 45°.
	843.0 - 844.3 - <u>Diabase-Gabbro</u> - altered, fine grained. Upper contact chilled against porphyry.
	844.3 - 857.0 - <u>Shear Zone</u> - carbonate down core with strongly chloritic inclusions. Some pyrite and sphalerite in the chlorite.
	851.0 - 853.5 - mainly fracture, chloritized volcanics?
	857.0 - 864.0 - <u>Volcanics?</u> - Altered, sometimes strongly chloritized. Some pyrite concentrations with quartz stringers.
	864.0 - 904.5 - <u>Porphyritic Diabase-Gabbro?</u> - Has a general similarity to the <u>Amygdaloidal dyke</u> at Tribag, but is non-magnetic and no chilled contacts could be seen. Definitely in fault stem.

# DIAMOND DRILL LOG

PROPERTY:

HOLE NUMBER: 115-13

LOCATION:

(page 6)  
DIP TESTS

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

Elevation:

Commence:

Azimuth:

Finished:

Logged by:

*S.V. Kim*

SAMPLE NUMBER	DESCRIPTION
	<p>upper contact broken, and lower contact also. Widespread shattering with hematite staining. Fine crystalline pyrite disseminations.</p>
889.3 - 891.2	relatively heavy pyrite with quartz in breccia zone down core
894.2 - 904.5	increasing shattering to a chlorite-carbonate breccia, with ph. crystals (or amygdaloids?) still evident.
904.5 - 907.0	Carbonate-chlorite Breccia and dip at low angle to core. Barren.
907.0 - 924.4	Feldspar Porphyry - altered. Slightly reddened. Indistinct banding 45° to core. Some shattering and "fault" breccia. Broken. 6" chloritic volcanics? at 922-922.5.
924.4 - 1000.	Volcanics - andesitic.
924.4 - 957	Chloritized, shattered with hematite staining and some "fault" breccia. Broken Core. Negligible mineral. Touch of chalcopyrite at 943.2.
957 - 1000	core gradually less chloritized and shattered. Some staining. Minor scattered pyrite. Patch of chalcopyrite at 999.7.
	End of Hole - 1000'
	<i>S.V. Kim</i>

# DIAMOND DRILL LOG

PROPERTY: NEW SENATOR- ROUYN LTD

HOLE NUMBER: NS-14

LOCATION: BATCHAWANA AREA. SSM - 63384

DIP TESTS

Latitude: 880N

Dip: 45°

Footage

Reading

Corrected

Departure: 12,000 W

Depth: 708'

Elevation:

Commenced: JAN 13, 1968

Azimuth: NORTH

Finished: JAN 20, 1968

Logged by:

S. V. Burn

Core stored at Tribag Core Shack.

SAMPLE NUMBER	DESCRIPTION		
0-10.0	- Casing		
10.0-87.5	- <u>Volcanics</u> - andesitic. Banding, or bedding about 70°-75° to core. Weak shattering. Scattered pyrite in fractures. Sparse chalcopyrite in fractures from 43.5-50. Touch of chalcopyrite at 74.5, and heavy 1/4" pyrite at 76.5.		
87.5-122.6	- <u>Diorite-Gabbro</u> - or coarse <u>Volcanic</u> ? - Upper contact gradational over two feet. Pepper and salt texture with varying grain size, fine to medium. Some fine disseminated pyrite. Scattered quartz fracturing with some chalcopyrite at 99.8-100, followed by minor but heavy pyrrhotite from 100-101 in a quartzose zone. Lower contact also gradational.		
122.6-180.8	- <u>Volcanics</u> - andesitic with minor tuff beds. Somewhat stronger shattering than above but still weak. Scattered pyrrhotite and pyrite with trace of chalcopyrite.		
139.5-140.0	- Concentration of chalcopyrite in quartzose zone.		
143.5	- touch of chalcopyrite		
150-180.8	- more massive		
161.2	- touch of chalcopyrite in quartz.		
Around 1675	- gradual coarsening to salt and pepper texture. May be coarse part of flow? Some pyrite near end.		

SSM-520

# DIAMOND DRILL LOG

PROPERTY:

HOLE NUMBER: *NS-14*  
 (page 2)  
 DIP TESTS

LOCATION:

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

Elevation:

Commenced:

Azimuth:

Finished:

Logged by:

*S.V. Burn*

SAMPLE NUMBER	DESCRIPTION
180.8 - 205.1	<u>Feldspar Porphyry</u> - upper contact broken - may be 60° to core. Porphyry shows no chilling at contact. Grey colour predominates. Some chloritic fracturing. Where weak banding evident it is 60° - 65° to core. Lower contact 50° to core.
205.1 - 210.5	<u>Volcanics?</u> - massive medium grain.
208.5 - 209.6	barren white quartz. Some pyrite at lower contact.
210.5 - 214.5	<u>Feldspar Porphyry</u> - as above. Banding at 75° to core. Upper contact 60°. Lower broken.
214.5 - 423.5	<u>Volcanics</u> - andesitic. Very minor incipient brecciation. Scattered fracturing and some "fanet" breccia with epidote. Minor scattered pyrite and traces of chalcoppyrite, generally associated with quartz stringers. Touch of chalcoppyrite with 1" epidote at 319.1. Other touches at 342, 343.4, 345.6-345.8, 365.1; 370.4.
377.5 - 397.5	increasing alteration + shattering
397.5 - 423.5	bedding more discernible at 75° - 80° to core
413.5	3" heavy pyrite, touch of sphalerite in quartz.
423.5 - 437.7	<u>Feldspar Porphyry</u> - or <u>Tuff?</u> - contacts conformable to volcanics at 75° - 80° to core.

# DIAMOND DRILL LOG

HOLE NUMBER: *NS-14*  
 (page 3)  
 DIP TESTS

PROPERTY:

LOCATION:

Latitude:

Dip:

Footage

Reading

Corrected

Departure:

Depth:

Elevation:

Commenced:

Azimuth:

Finished:

Logged by:

*S.V. Burr*

SAMPLE NUMBER	DESCRIPTION
	Some quartz. Heavy pyrite at 427-427.5.
437.7 - 495.4	<u>Volcanics</u> - andesitic.
437.7 - 457	bedded as above. Minor pyrite. Slight fracturing.
457 - 495.4	less well-bedded. Increasing alteration. Minor pyrite.
495.4 - 548.0	<u>Diorite</u> - <u>Gabbro</u> - Sharp upper contact at 90° to core, although grain size similar to the volcanics, then gradually increasing to med. grained salt and pepper texture. Fairly massive, minor fracturing. Occasional quartz + epidote veinlets. Minor pyrite.
519	6" broken mineralized quartz with some chalcopyrite.
	Lower contact 90° to core.
548.0 - 563.0	<u>Volcanics</u> - andesitic. Scattered fracturing with some pyrite concentrations.
563.0 - 708.0	<u>Diorite</u> - <u>Gabbro</u> - (contact may be anywhere from 563 - 564.5. Pepper and salt texture. Scattered fracturing. Sparse pyrite.
603.5	Molybdenite in quartz stringer.
616.7 - 708.0	Finer grained. Possibly some included volcanics. Somewhat more fracturing
	Pyrrhotite + minor chalcopyrite at 628.8, 633.3, 638 and some pyrite + chalcopyrite in quartz at 702.5-706.0
	END OF HOLE - 708'

*S.V. Burr*

NS-10 NO ASSAYS  
 NS-10 no assays

NS-11 0.45% Cu Cu } 1.0 ft 435.2  
 NS-11 6.44% Pb Pb } 434.2  
 11.45% Zn Zn } 110  
 4.74 oz Ag Ag only assay

NS-12 0.17% Cu Cu } 7.5' only assay  
 NS-12 1.10% Pb Pb }  
 2.31% Zn Zn }  
 0.75 oz Ag Ag

NS-13 0.10% Cu } 3.8' } 0.03% Cu } 8.1'  
 NS-13 0.82% Pb } 11.4' } 0.37% Pb }  
 67.5-113' 1.43% Zn } 11.4' } 0.52% Zn }  
 0.43 oz Ag } 0.19 oz Ag }  
 consecutive samples  
 (consecutive samples)

115.6-123.9 (8.1) 0.08% Cu 0.09 oz Ag  
 123.9-132.0 (8.1) 0.14% Cu 0.11 oz Ag  
 376.6-379.7 (3.1) 0.40% Cu 0.15 oz Ag  
 405.7-408.2 (2.5) 0.47% Cu 0.12 oz Ag  
 421.0-422.4 (1.4) 0.10% Cu 0.28 oz Ag

SSM-520

4285.5  
- 402.5 →  
3883.0

10-14 incl :

9.

8

7.

1985-88

1- 6.

2 12<sup>55</sup>  
3883.0

545.0

317.0

519.1

5264.1

4287.0

9551.1

9551.1

WEST PROJECT  
West Project

new knick  
rough, etc

Pb Zn Ag  
Pb Zn Ag

Holes 4, 5, 6.

Holes 4, 5, 6

EAST PROJECT  
East Project

43 <sup>1</sup>/<sub>2</sub> 402.5  
10. 172.  
11. 1003.  
12. 1000.  
13. 1000.  
14. 708.  

---

4285.5

Cu Ag  
Cu Ag

Holes 3, 10, 11, 12, 13, 14.

Holes 1, 2, 7, 8, 9. ? Categorize?  
Categorize?

SSM-520



MAP SHOWING LOCATION OF D.O.N

NS-9

SSM  
61112

● M  
61111

SSM  
63383

SSM  
63382

NS-B  
-05°  
N 50° E

SSM  
63379

SSM  
63432

SSM  
63384

SSM  
63381

SSM  
63380

SSM  
63431

SCALE 1" = 400

CLAIM

BULLDOZED AREA  
800 Sq. Ft. Avg. 4' DEEP



600'

CLAIM  
SSM 63384

1" = 100'  
1" = 100'

19.2 days

800'  
CLAIM LINE.

No. 2  
POST

Nov. 2/71 R.S.

TWP. <sup>28</sup> 27

TWP. <sup>27</sup> 26

R. 13

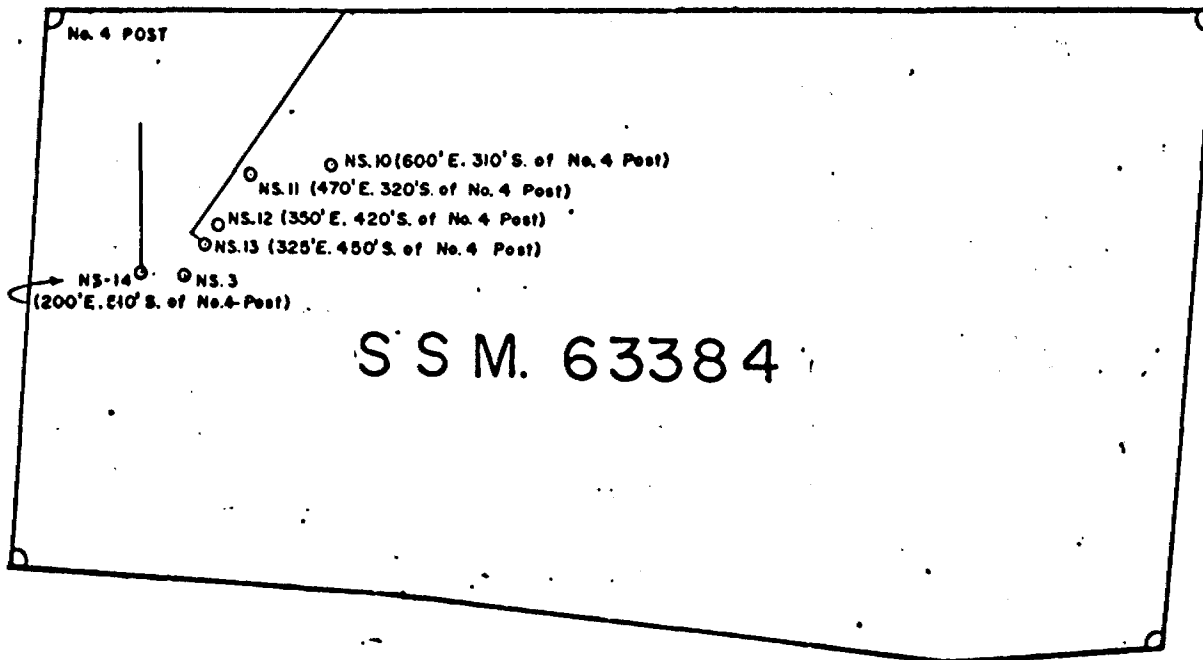
R. 13

SSM 67446	SSM 63394	SSM 63391	SSM 63390	SSM 63387	SSM 63386	SSM 63383	SSM 63382	SSM 63379	SSM 63432	SSM 63429	SSM 63424	SSM 63419	SSM 63416	SSM 63413	
SSM 67133	SSM 63393	SSM 63392	SSM 63389	SSM 63388	SSM 63385	SSM 63384	SSM 63381	SSM 63380	SSM 63431	SSM 63430	SSM 63423	SSM 63422	SSM 63421	SSM 63420	
SSM 67134	SSM 63395	SSM 63396	SSM 64139	SSM 64138	SSM 64135	SSM 64132	SSM 64130	SSM 64129	SSM 63412	SSM 63411	SSM 63408	SSM 63407	SSM 63404	SSM 63403	SSM 63400
	SSM 64141	SSM 64140	SSM 64138	SSM 64137	SSM 64134	SSM 64133	SSM 64131	SSM 63414	SSM 63413	SSM 63410	SSM 63409	SSM 63408	SSM 63405	SSM 63402	SSM 63401
	SSM 64146	SSM 64147	SSM 64148	SSM 64149											

NEW SENATOR-ROUYN LTD. CLAIM GROUP

Scale 1" = 1/2 Mile

1" = 1/2 mi



NEW SENATOR-ROUYN LTD.

BATCHAWANA BAY, ONTARIO.

PLAN OF ASSESSMENT WORK, 1967

SCALE 1" = 400' JAN. 30, 1968

1" = 400'