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41P15NE8274 63E.9 POWELL

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Report on Results of
GEOCHEMICAL SOIL SURVEY

for
COPPER AND MOLYBDENUM

on

PAX INTERNATIONAL MINES LTD.

North Claim Group, Powell Twp., Ont.

INTRODUCTION

Control grid work was begun September 17th and completed November 9, 1965. A total of 121 mandays were involved in line cutting and chaining.

Field Sampling was conducted between the following dates:
September 22 to October 5 by 1 sampler.
October 11 to October 22 by 2 samplers.

Soil samples were analysed to close tolerances at the Laboratory of Exploration Services, Ottawa by standard semi-quantitative methods for copper and molybdenum. A description of analytical procedures is included further on in this report.

In the assessment of these results, reference is made to criteria sampling over known showings of molybdenum on the main Pax property immediately south of subject grid.

The assessment is also facilitated by a detailed geological survey completed over the same grid. Latter survey is the subject of a separate report.

During the course of the field work several old trenches were noted at widely separated points on the grid. These have been located on both geochemical and geological plots. The condition of the trenches suggests they were excavated in gold exploration.

A few of the anomalies are indirectly associated with these old workings.

SUMMARY & CONCLUSIONS

A total of 1751 soil samples were obtained from 39.03 miles of controlled grid line. This figure included 1% sample checks.

Criteria Sampling over known deposits on the main group yielded maximum values in excess of 1000 ppm in both copper and molybdenum immediate to trenches and over tailings areas containing visible copper-molybdenite. These values however grade sharply downward in undisturbed soil areas indicating a high degree of residual contamination in some areas. Values over subject grid as expected were considerably lower and not subject to any degree of contamination.

The anomalies resulting from the surveys indicate the source mineralization to occur as localized or lineal concentrations within the Keewatin-Algomian Series.

Localized disseminations of copper are suggested but the magnitude of the anomalous conditions, coupled with topographic characteristics favoring dispersed halos precludes any great concentration of the metal in one place.

Similarly, the molybdenum halos are quite restricted and indicative of localized shear zone type occurrences.

The topography and soil type of the grid favored a geochemical assessment. A fair B-soil horizon has been developed and outcrop frequency in all areas is good. No great depth of glacial material was encountered at any point.

By statistical plot it is noted that the copper background in the soil is average, in the order of 20 p.p.m. The molybdenum background is low in the order of 0.5 to 3 ppm. Moly halo development is suspected to be restricted as a result of a basic soil environment. Values of 15-20 ppm in these soils, depending on zonal characteristics, may be considered anomalous.

RECOMMENDATIONS

In writer's opinion, the nature and extent of the anomaly halos do not indicate that a mineralized body of ore extent occurs on the property.

The major anomaly systems are described under RESULTS, and recommendations with respect to these may be summarized as follows:

1. Claims MR 37468 and 69

A cross sectional test of the anomaly area on Line 600W between 400N and 1600N by trench sampling or limited drilling as overburden conditions indicate.

2. Claim MR 37481

A cross sectional trench on Line 8600W between 1800N and 2000N should be excavated, mapped and bulk sampled.

Other old trenches in the area, associated with ancillary anomalies may be rehabilitated, mapped and sampled.

3. Claims MR 37464, 37467 and 37474

Stripping, mapping and trench sampling as follows:

Trench at Baseline and 800W to investigate Mo buildup.

Trench on Line 4600W, 100 to 300N.

Trench on Line 3400W, 500 to 700N.

PROPERTY: LOCATION: ACCESS: TOPOGRAPHY

The property is wholly owned by Pax International Mines Ltd.,
1725 Bank Street, Ottawa, Ontario.

It is comprised of a single group of 18 contiguous, unpatented
mining claims numbered MR 37464 to MR 37481 inclusive having an
approximate area of 720 acres.

The group is currently under extension, 60 mandays work on each
claim being due February, 1966.

It is located in the central part of Powell Township, Montreal
River Mining Division, as noted by locational inlays on accompanying
plans.

The eastern part of the group is traversed by Ontario Hwy. 566,
some 6 miles north from the village of Matachewan. A telephone line
parallels the highway on these claims.

Topography is high, rolling to cliffy. Outcrops are plentiful and
the soil cover is relatively shallow over all the group.

Brush is mixed conifer and deciduous. Many windfalls and overcut
areas of slash locally make travel difficult.

SCOPE & PERFORMANCE

Field

The soil sampling program was controlled by a chained, picket line grid with a line interval of 200 feet oriented astronomic north-south.

Sample traverses were conducted along line and samples taken every 100 feet. Sample locations are designated in the field by yellow ribbon flags having sample number noted thereon.

Sampling was accomplished by standard sampling augers 3 and 8 feet in length from the B - soil horizon where this horizon was present. Where no B - horizon was noted, a sample was procured below the humus level, and detrimental condition so noted. All sampled soils are described in notes and on plans appended.

A check sample was taken for every one-hundredth sample. A total of 1751 samples were so procured.

Laboratory

Molybdenum (VI) in acid solution when treated with stannous chloride is converted into molybdenum (V), which forms a complex with thiocyanate ion (amber colored). The latter may be extracted with an appropriate organic solvent.

The dried soil sample, minus 80 mesh, is digested in a hot water bath using a mixture of concentrated sulfuric and nitric acids. An appropriate aliquot is taken and treated with concentrated citric acid to inhibit the effects of the two digestion acids and to prevent the interference of tungsten and vanadium. The aliquot is further treated with a thiocyanate solution to form the amber-colored molybdenum thiocyanate complex $\text{Mo}(\text{SCN})_5$.

Stannous chloride is added to reduce the iron and other interfering elements. The molybdenum complex is removed by shaking with isopropyl ether and the intensity of the color compared to known standards.

In soils molybdenum is usually present in the sexivalent state and hot sulfuric acid digestion is capable of removing most of the extractable metal. However, if flakes of molybdenite are present nitric acid is added to bring about the digestion of this mineral. Iron, tungsten, vanadium and rhenium interfere in this method, but stannous chloride and citric acid are used to prevent this interference; the former metals in their lower valence states do not form colored complexes with thiocyanate.

The method can be used on soil containing from 2 ppm molybdenum upward. The upper limit of detection can be extended by taking a smaller aliquot of test solution and/or smaller weight of sample. Results are reported with a precision, ability to reproduce, of plus or minus one-third.

Copper is determined by the standard hot acid leach, dithizone method employed by the Geological Survey of Canada.

Presentation

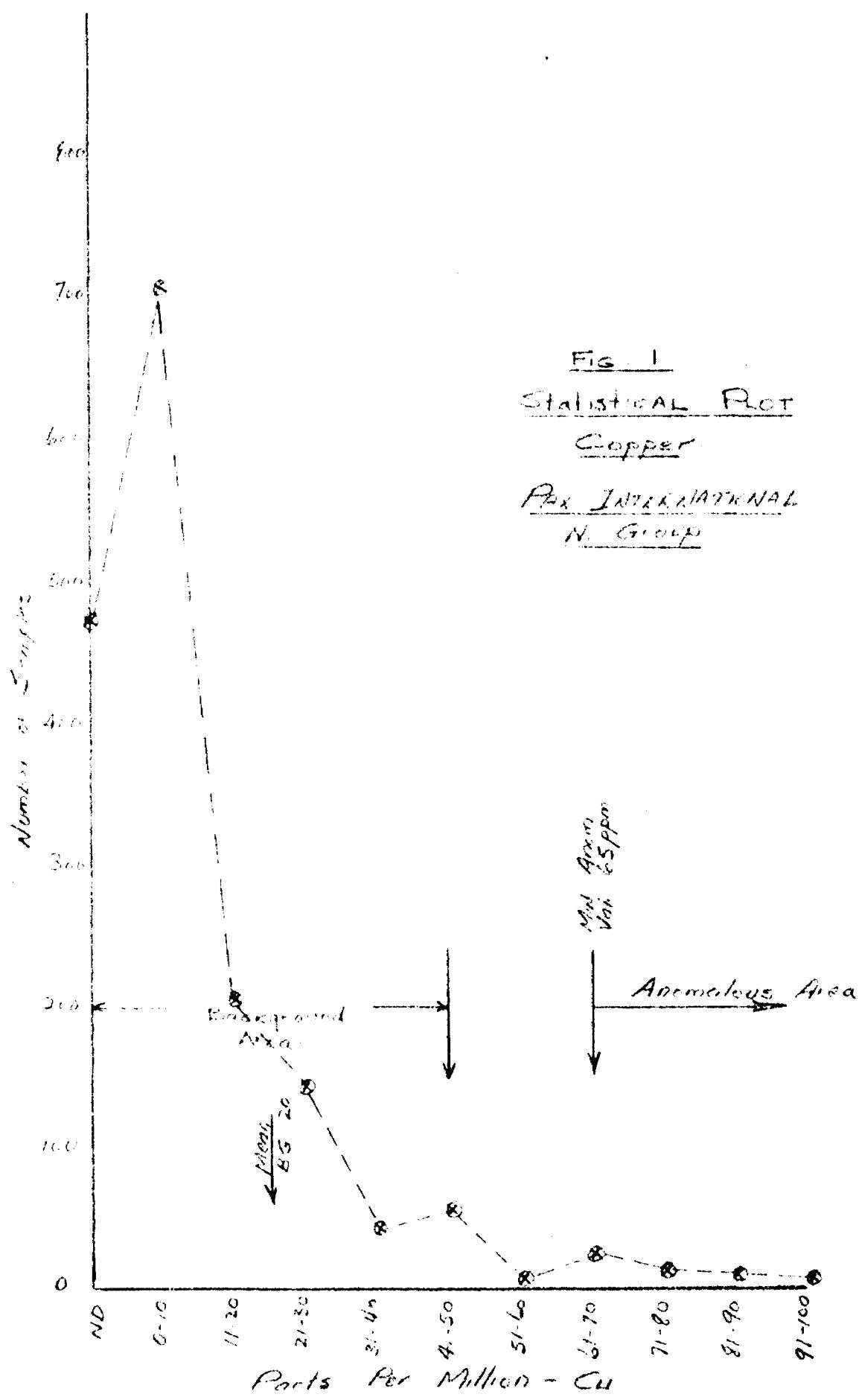
Picket line traverses are plotted on accompanying 200 scale plans as they occur in the field.

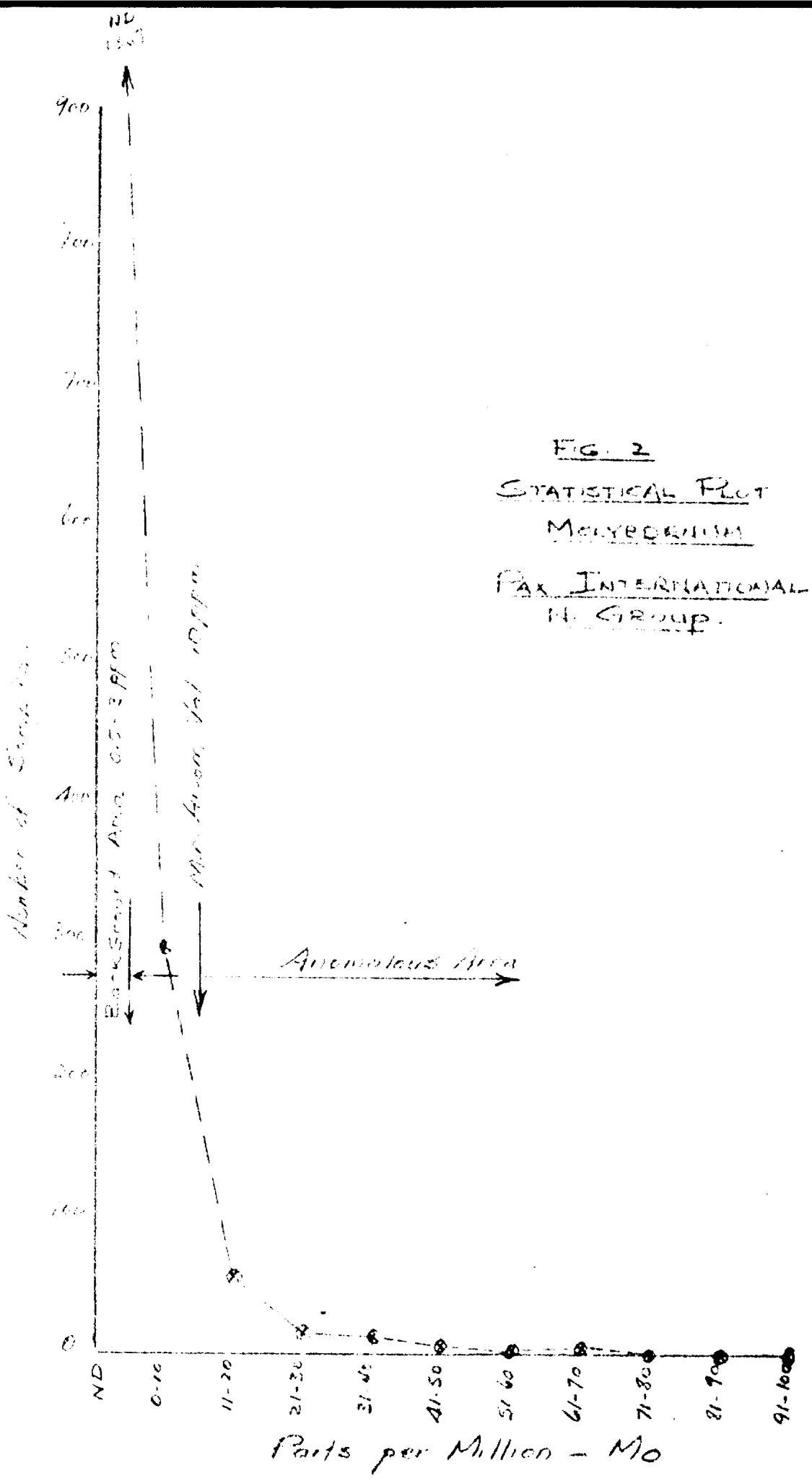
Such features as the copper-molybdenum value in ppm, vegetation type, soil type, streams, swamp and slope direction are also noted. Outcrop locations normally noted, have been plotted on a separate geological plan, to which reference has been made.

Background values as noted are respectively 20 ppm and 1.5 ppm for copper and molybdenum. Minimum anomalous values are respectively 65 and 10 parts per million. Anomalous values have been contoured in increments

of 25 ppm copper and 10 ppm molybdenum. To simplify the presentation, values over 100 ppm copper and 40 ppm molybdenum are distinctively hatched.

Two plates showing graphic background and minimum anomalous plots are included overleaf.





THEORY OF GEOCHEMISTRY

There are many different soil groups and subgroups based on the origin of soil, its environment, chemical composition, maturity, texture, etc. Each soil has a profile based on layering, or horizons, each of which has its own chemical and textural composition. A certain horizon may vary in thickness, or in some cases be completely absent.

Soil groups are formed as a result of bedrock weathering and biologic activity over extremely long time periods. Depending on time elements, soils can be classified firstly as mature or immature.

Mature soils have well developed zones or horizons and are called Zonal soils. Less mature soils and those of maturity with some horizons missing, or not well developed, may be classed as Intrazonal. Youngest immature soils, such as found in mountains, are known as Azonal soils.

In Zonal soils there are two main groups, those which are calcium-rich, and those which are rich in aluminum-iron. Former group, appears to be most pertinent to subject survey. Zonal soils are made up of Podzols associated with conifer tree cover, but to a greater extent in subject area, the grey-brown soils associated with mixed or deciduous bush. In both of these soils, the "A" horizon has been highly leached with consequent enrichment of the "B" horizon with metals and organics from above.

Intrazonal soils are located in poorly drained areas such as swamp, and low water table areas. This soil has been subjected to alternate reduction and oxidation processes due to seasonal water table fluctuations. They tend to have very thick accumulated organic layers; viz, north central area of claims around lake.

Azonal soils show little or no differentiation of the parent soil-forming material. They are formed where erosion, caused by topographic relief, is active, so that the soil has no time to become mature. Horizons are consequently thin, indistinct, and mixed with rock fragments.

In soil formation the "A" horizon is first to appear, being developed from the parent rock or "C" horizon. In youthful soils the "A" may be the only distinct horizon.

The "C" horizon, or zone of weathering, is not a true soil, but has been developed from the underlying bedrock by weathering processes.

The "B" horizon is developed during the maturing process and is a zone of accumulation of minerals through capillarity from below and some organic material leached from above layers. The formation of a good "B" zone then, is dependent on the factors of time, (lengthy), climate, relief (good drainage, though not excessive erosion), parent material and biological activity, in roughly this order of importance. The "B" horizon, due to its accumulation of minerals, is the horizon to sample.

The occurrence of molybdenum in soils is normally in the range of 1 to 4 ppm. It may be higher in tundra areas, and 20 to 30 ppm is normal in porphyry-copper areas of the southwestern U.S.A. Usually 20 ppm in soils is considered high. Molybdenum is more soluble than copper and is highly mobile. Molyhalos may be extensive and show up well against a low background in an acid soil environment. Its sensitivity is high (1-5 ppm), and therefore lends itself ideally to reconnaissance sampling on a wide grid under these conditions.

Where the soil tends to be basic however, solubility and migration of molybdenum ions is restricted and any halo is usually close to source mineralization. Under these circumstances the copper halo is the more extensive.

GEOLOGY

The following table of formations is represented on grid area surveyed:

<u>Matachewan</u>	<u>Approx. Areal Extent</u>
Diabase dykes	35%
<u>Algoman</u>	
Syenite, syenite porphyry plugs	5%
<u>Timiskaming</u>	
Quartzite, chert and argillite	3%
<u>Keewatin</u>	
Meta-diorite	10%
Basalt	15%
Andesite	30%
Dacite	5%
Rhyolite	2%

The geology of the grid area was compiled from a separate survey and is the subject of a supplementary report to follow. The subject is treated here in summary form, in so far as it is relevant to the geochemical survey.

The chief feature of the grid area is the extensive areal representation of Matachewan Diabase dykes. These are youthful intrusions making up an estimated 35% of the areal coverage. The dykes are present as eight parallel systems striking from north to N15E across the grid. They are usually crystalline from medium to fine, unaltered, and show a considerable magnetite content.

Their effect on the survey may be noted in the discontinuous character of many of the anomalies which terminate at the dyke contacts. In one or two instances however, the anomaly continues across the dyke suggestive of possible mineral remobilization along reopened fractures in the Keewatin by post-dyke movement.

Of considerable economic significance are several small plugs and/or bosses of Algoman syenite and syenite porphyry. These range from basic syenite to feldspar porphyry and appear to host, and possibly be genetically related to, the mineralization. It is significant that geochemical buildups show a direct relationship to these structures as well as to the meta-volcanic rocks in their environs.

The Timiskaming sediments comprise a relatively minor areal resemble recrystallized acid volcanics. Their occurrence is restricted to the central grid area, claims MR 37465 and 66.

A large mass of meta-diorite occurs south of the lake on claims MR 37472 and 73. It is a finely crystalline, highly chloritized and epidotized rock which could also be classified as a coarse basic flow. The formation does not appear to be a receptive mineralizer.

The basic to intermediate volcanics form the major areal grid extent. The basalts which occupy a large part of the western grid are fine grained, dense rocks often exhibiting concoidal fracture. They are frequently brecciated and feldspathized.

The basalts grade into intermediate andesites which are the dominant rocks from the viewpoint of distribution, and a major host rock underlying the anomaly systems. They are also the most intensely altered; usually quite chloritic, feldspathic and carbonated. Copper-moly mineralization is frequently noted in the feldspathic, quartz injected facies. The andesites are usually well fractured and generally show some late stage silicification. Along diabase contacts they are usually highly baked.

Dacites and rhyolites are minor types and apart from brecciation and quartz-feldspathic injections of fracture planes, are relatively unaltered.

RESULTS

Examination of accompanying plans indicates that most anomalous systems are of moderate to weak intensity and that the anomaly halos are restricted in both strike extent and breadth dimension. The geology of the grid indicates that strike limitations are probably due to truncating dykes of Matachewan diabase which have in many cases terminated mineral continuity. The lineal aspect of the anomalies suggests the presence of narrow mineralized fractures or shear zones.

The major anomalous systems are described hereafter by claim location. These hold most promise of a reasonable degree of continuous mineralization and some followup exploration is locally suggested.

These systems are generally associated with andesite-syenite contact areas, or within volcanic corridors between cross-cutting diabase dykes. Significantly, in all cases where elements of the Algoman series outcrop, the areas show an ionic buildup in the soil cover immediately over the Algoman and/or bordering volcanics.

A prominent system of disconnected copper anomalies extend from claim MR 37469 westward $1\frac{1}{4}$ miles to claim MR 37475. The trend of the system is N80°E suggestive of a mineralized fracture zone conformable with the original trend of the Keewatin volcanics. As above suggested, the discontinuous nature of the anomaly pattern is probably due to interruption by repetitive north-south diabase dykes. The fracture system is not prominently outlined on the molybdenum plot; molybdenum buildups are localized to the Algoman syenite intrusion area on claims MR 37468 and 49.

On the westerly claims of the grid, a suggested northwesterly trend is developed. These may be subsidiary fracture systems paralleling a strong

photo lineament striking northwesterly through the lake on claim MR 37472.

CLAIMS MR 37468 and 69

Two hook-shaped anomalies show a buildup in copper. A lineal molybdenum anomaly extends for 1200 feet and is relateable to the copper system.

The anomalies appear to be part of strong, late fracture system cutting all formations. The values not only occur along the syenite-volcanic contact, but extend westerly over a diabase dyke which, at this point, has an apparent width of 800 feet. The maximum anomaly values are 300 ppm copper and 25 ppm molybdenum.

This zone holds the most promise for followup work and should be tested by trenching and/or drilling along Line 600W between 400N and 1600N.

CLAIM MR 37464

Two lineal copper systems are developed on the claim. These have weak, indirect molybdenum associations and are believed to be due to narrow, mineralized fractures. They lie within the volcanic horizon close to a small plug of Algoman syenite.

On baseline at 800W, a restricted moly buildup is associated with the volcanics in an outcrop area. This may be investigated by stripping.

CLAIMS MR 37467 and 74

To the north and west of a small lake, moderate copper anomalies of restricted strike length appear to be part of the mineralized fracture system earlier described.

These lie within narrow volcanic corridors in close contact with syenite and diabase intrusions. Prominent north and northwesterly photo lineaments in the immediate buildup area are suggestive of mineralized cross fracture zones. Zoning of soil values is fair in a north-south direction and magnitude range to 650 ppm. Moly association, however, is weak to negligible.

The zones could probably be tested by stripping in the outcrop areas of Line 4600W at 200N and Line 3400W at 500N.

CLAIM MR 37425

A narrow corridor of andesitic to basaltic lava supports a limited copper buildup for a strike length of 400 feet. There is no evident moly association with this zone. Maximum copper value is 338ppm.

CLAIMS MR 37477 and 81

A northwesterly copper anomaly some 300 feet in length on claim MR 37477 is associated with a small syenite plug. There is evidence of residual contamination from a large outcrop of the formation which appears to be cut by copper-bearing fractures. A similar but non-conformable molybdenum anomaly extends northeasterly from the syenite contact to a point immediately south of an old trench. The trench area itself is weakly anomalous in copper with no molybdenum.

On claim MR 37481, a weak, lineal copper system extends outside the grid. A localized copper anomaly 200 feet south of this condition is relateable to a well defined molybdenum halo to 60 ppm which is possibly related to both systems, and is roughly conformable to the northwest trending andesite-basalt contact. The condition should be investigated by trenching along Line 8600W between 1800 and 2000N.

Respectfully submitted,

J.R. Mowat, P.Eng. (Man.)

Ottawa, Ontario
December 6, 1965.

JEAN ALIX COMPANY LTD.

LINE CUTTING & STAKING CONTRACTOR

HEAD OFFICE - VAL D'OR, P. QUE.

TEL. 824-3317

No : 735



PROPERTY : Matatchewan Area

TWP :

PROV : Ontario

CHARGE To : J. R. Mowat

DATE : October 26, 1965.

ADDRESS : 11, Beaverton Ave.,
Ottawa 5, Ontario.

Transit Line :	Miles at \$	Total \$	Grand Total :
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Pickets Lines : 36.6	Miles at \$ 65.00	Total \$ 2,379.00	
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LINE NO.	LENGTH NORTH	LENGTH SOUTH	BASE LINE	NORTH TIE LINE	SOUTH TIE LINE	TOTAL IN FEET PICKET LINE	TOTAL IN FEET TRANSIT LINE
L 000	2,191	1,280	9,850	9,805			
L 2 E	1,660						
L 2 W	2,685	1,345					
L 4 W	2,545	1,410					
L 6 W	2,625	1,490					
L 8 W	2,710	1,560					
L 10 W	2,625	1,650					
L 12 W	2,190	1,720					
L 14 W	1,915	1,708					
L 16 W	2,230	1,705					
L 18 W	2,438	1,721					
L 20 W	2,434	1,715					
L 22 W	2,380	1,708					
L 24 W	2,407	1,708					
L 26 W	2,413	1,703					
L 28 W	2,470	1,716					
L 30 W	2,158	1,724					
L 32 W	2,183	1,732					
L 34 W	2,206	1,745					
L 36 W	1,350	1,758					
L 38 W	1,365	1,771					
L 40 W	1,385	1,785					
L 42 W	1,220	1,866					
L 44 W	1,400	1,968					
L 46 W	1,460	2,075					
L 48 W	1,470	2,190					
L 50 W	1,480	2,276					
L 52 W	1,335	2,368					
L 54 W	1,504	2,360					
L 56 W	1,523	2,350					
L 58 W	1,543	2,285					
L 60 W	1,552	2,221					
L 62 W	1,562	2,177					
L 64 W	1,525	2,133					
L 66 W	1,588,	2,096					
L 68 W	1,598	1,717					
L 70 W	1,608	1,340					
L 72 W	1,618	1,129					
L 74 W	1,628	1,137					
L 76 W	1,641	1,320					
L 78 W	1,654	1,269					
L 80 W	1,670	1,109					
L 82 W	1,687	850					
L 84 W	1,703	780					
L 86 W	1,720	1,610					
L 88 W	1,749	1,499					
L 90 W	1,778	1,575					
L 92 W	920	1,720					
L 94 W	300	2,020					
L 96 W		1,720					
L 98 W		680					
	89,001	84,494	9,850	9,805		193,150	



JEAN ALIX COMPANY LTD.

LINE CUTTING & STAKING CONTRACTOR
HEAD OFFICE . VAL D'OR, P. QUE.
TEL. 824-8817

Nº 740

PROPERTY : Matatchewan Area (Extension)

TWP :

PROV : Ontario.

CHARGE To : Mr. J. R. Mowat,
11 Beaverton Ave.,

DATE : November 10, 1965.

ADDRESS : Ottawa 5, Ont.

Transit Line : Miles at \$ Total \$ Grand Total :

Pickets Lines : 2.5 Miles at \$ 65.00 Total \$ 162.50

LINE No.	LENGTH NORTH	LENGTH SOUTH	BASE LINE	NORTH TIE LINE	SOUTH TIE LINE	TOTAL IN FEET PICKET LINE	TOTAL IN FEET TRANSIT LINE
L 54 W	706	1,504 N to	2,210 N				
L 56 W	687	1,523 N to	2,210 N				
L 58 W	697	1,543 N to	2,240 N				
L 60 W	858	1,552 N to	2,410 N				
L 62 W	768	1,562 N to	2,330 N				
L 64 W	773	1,575 N to	2,348 N				
L 66 W	744	1,588 N to	2,332 N				
L 68 W	637	1,598 N to	2,235 N				
L 70 W	562	1,608 N to	2,170 N				
L 72 W	562	1,618 N to	2,180 N				
L 74 W	602	1,628 N to	2,230 N				
L 76 W	706	1,641 N to	2,347 N				
L 78 W	600	1,654 N to	2,254 N				
L 80 W	572	1,670 N to	2,242 N				
L 82 W	463	1,687 N to	2,150 N				
L 84 W	352	1,702 N to	2,054 N				
L 86 W	300	1,720 N to	2,020 N				
L 88 W	296	1,749 N to	2,045 N				
L 90 W	222	1,778 N to	2,000 N				
L 36 W	930	1,350 N to	2,280 N				
L 38 W	960	1,365 N to	2,325 N				
	12,997					12,997	

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT # R40-65

Type Samples Soil

Extraction Bisulphate fusion - HCl leach

From J. R. Mowat

Fraction Used -80 mesh

Date November 3,

1965

Analyst W.F.B. & M.G.

SAMPLE NO.	ppm Cu	ppm Mo		Sample No.	ppm Cu	ppm Mo	REMARKS
NPX-1	8	10		NPX-76 ✓	38	10	
2	50	ND		77	10	5	
3	ND	10		78	3	ND	
4	ND	ND		79	28	ND	
5	3	ND		80	10	ND	
6	55	5		81	8	ND	
7	25	8		82	63	13	
8	5	1		83	28	15	
9	230	13		84	70	15	
10	38	ND		85	10	ND	
11	10	10		86	45	18	
12	8	ND		87	175	65	
13	13	1		88	3	ND	
14	50	1		89	3	ND	
15	20	1		90	43	10	
16	138	1		91	53	20	
17	63	13		92	38	5	
18	ND	ND		93	3	ND	
19	3	ND		94	ND	23	
20	88	13		95	ND	ND	
21	18	ND		96	ND	ND	
22	38	1		97	ND	ND	
23	28	ND		98	18	10	
24	8	ND		99	140	5	
25	5	ND		100	75	8	
26	20	ND		101	80	8	
27	8	ND		102	5	5	
28	5	ND		103	3	ND	
29	8	ND		104	63	1	
30	10	ND		105	45	ND	
31	8	ND		106	3	ND	
32	3	ND		107	5	1	
33	10	ND		108	30	3	
34	138	ND		109	130	10	
35	3	ND		110	3	8	
36	8	1		111	10	ND	
37	ND	ND		112	8	1	
38	ND	ND		113	35	ND	
39	ND	ND		114	40	10	
40	28	ND		115	28	5	
41	160	ND		116	25	1	
42	10	ND		117	300	15	
43	5	ND		118	63	ND	
44	ND	ND		119	95	13	
57	3	1		120	140	3	
58	5	13		121	35	ND	
59	8	20		122	10	1	
60	5	13		123	45	ND	
61	18	3		124	50	3	
62	ND	ND		125	175	23	
63	5	ND		126	28	3	
-64	8	ND		127	33	ND	
-65 ✓	13	ND		128 ✓	113	ND	
66	80	ND		-145	23	ND	
67	95	ND		146	3	ND	
68	175	10		147	20	1	
69	30	10		148	8	1	
70	50	8		-149 ✓	3	ND	
71	15	ND		150	88	3	
72	38	3		151	160	3	
73	3	ND		152	70	3	
74	5	ND		153	38	ND	
75	3	ND		154	50	20	

GEOCHEMICAL SEMI QUANTITATIVE CHEMICAL ANALYSIS
EXPLORATION SERVICES INC.

J. R. Mowat

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT# R40-65 Cont'd.

Type Samples.....Soil.....

Extraction Bisulphate fusion-HCl leach

From: J. R. Mowat

Fraction Used -80 mesh

Date November 3, 1965

Analyst..... W.F.B. & M.C.

SAMPLE NO.	ppm Cu	ppm Mo						REMARKS
NPX-155 ✓	45	10						
156	50	18						
157	63	13						
158	45	25						
159	30	8						
160	170	10						
161	50	3						
162	28	5						
163	40	3						
164	35	15						
165	38	50						
166	33	20						
167	40	20						
168	38	ND						
169	8	ND						
170	53	ND						
171	13	ND						
172	338	65						
173	45	ND						
174	30	1						
175	30	1						
176	8	ND						
177	28	ND						
178	48	13						
179	30	15						
180	23	18						
181	15	15						
190	5	ND						
191	38	ND						
192	ND	ND						
193	8	ND						
194	48	13						
195	28	18						
196 ✓	33	10						

The logo consists of a grid of horizontal and vertical lines. Diagonal text across the grid reads "GEOCHEMICAL EXPLORATION SERVICES" and "ANALYSIS". Below this, another diagonal line contains the text "SEMI-QUANTITATIVE CHEMICAL ANALYSIS". A large, stylized signature "A.T. Boulton" is written across the bottom right of the grid.

per ...

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT

Type Samples.....Soil.....

Extraction pyrosulphate fusion, HCl leach

From J. R. Mowat, 56 Sparks Street.....

Fraction Used -80 mesh.....

Date November 5.....1965.....

Analyst W. E. B. & M. C.....

SAMPLE NO.	Cu	Mo		sample number	Cu	Mo	REMARKS
NPx-197 ✓	10	7		NPx-269 ✓	ND	ND	
198	5	1		270	3	ND	
199	3	ND		271	3	ND	all values are given in ppm
200	8	ND		272	3	ND	
201	5	ND		273	ND	ND	
202	10	2		274	ND	ND	the value ND indicates that the element was not detected
203	50	1		275	8	ND	
204	3	ND		276	83	13	
205	8	ND		277	10	ND	
206	5	1		278	38	5	
207	8	ND		279	13	ND	
208	15	13		280	45	2	
209	23	7		281	10	ND	
210	10	1		282	5	ND	
211	105	1		283	250	ND	
212	25	ND		284	8	ND	
213	30	ND		285	ND	ND	
214	3	ND		286	ND	ND	
215	ND	ND		287	ND	ND	
216	8	ND		288	ND	ND	
217	30	ND		289	3	ND	
218	3	1		290	ND	ND	
219	ND	1		291	ND	ND	
220	5	1		292	88	8	
221	3	ND		293	ND	ND	
222	3	15		294	3	1	
223	20	10		295	3	ND	
224	8	ND		296	3	ND	
225	3	ND		297	5	25	
226	ND	10		298	93	7	
227	ND	ND		299	8	ND	
228	3	ND		300	10	ND	
229	3	1		301	8	ND	
230	ND	1		302	3	ND	
231	10	1		303	10	ND	
232	15	ND		304	5	ND	
233	8	ND		305	3	ND	
234	23	ND		306	10	ND	
235	ND	ND		307	13	ND	
236	10	ND		308	5	ND	
237	63	1		309	8	ND	
238	ND	ND		310	3	ND	
239	8	ND		311	8	ND	
240	3	ND		312	3	ND	
241	10	ND		313	25	2	
242	18	2		314	3	ND	
243	3	ND		315	10	ND	
244	5	1		316	45	4	
245	ND	ND		317	8	ND	
246	5	ND		318	8	ND	
247	8	ND		319	ND	ND	
248	50	7		320	ND	ND	
249	130	ND		321	25	ND	
250	5	8		322	3	ND	
251	8	1		323	5	ND	
252	ND	ND		324	8	ND	
253	225	25		325	3	ND	
254	3	10		326	ND	ND	
255	10	ND		327	ND	ND	
256	30	1		328	3	ND	
257	10	1		329	8	ND	
258	8	ND		330	10	5	
259	ND	ND		331	75	5	
260 ✓	ND	ND		332	25	1	

EXPLORATION SERVICES
GEOCHEMICAL SEMI-QUANTITATIVE CHEMICAL ANALYSIS
W. E. B. & M. C.

EXPLORATION SERVICES

GEOCHEMICAL LAB REPORT

SAMPLE NO.	Cu	Mo		sample number	Cu	Mo	REMARKS
NPx-333 ✓	3	ND		NPx-415	15	ND	
334	28	ND		416	10	ND	
345	3	ND		417	15	1	
346	2	ND		418	13	ND	
347	5	ND		419	10	1	
348	ND	ND		420	8	ND	
349	ND	ND		421 ✓	10	ND	
350	3	ND		422	10	ND	
351	ND	ND		423	8	ND	
352	5	ND		424	8	ND	
353	3	ND		425	3	ND	
354	ND	ND		426	5	ND	
355	5	ND		427	45	ND	
356	8	ND		428	23	ND	
357	3	ND		429	5	ND	
358	3	ND		430	13	ND	
359	5	ND		431	190	ND	
360	3	ND		432	8	ND	
361	ND	ND		433	3	ND	
362	38	4		434	3	ND	
363	ND	ND		435	ND	ND	
364	ND	ND		436	25	ND	
365	63	ND		437	3	ND	
366	3	ND		438	3	ND	
367	100	2		439	ND	ND	
368	8	ND		440	8	ND	
369	8	ND		441	10	ND	
370	13	1		442	5	ND	
371	50	ND		443	ND	ND	
372	5	ND		444	5	ND	
373	10	ND		445	10	ND	
374	18	ND		446	25	ND	
375 ✓	8	ND		447	5	ND	
376	3	ND		448	3	ND	
377	8	5		449	50	ND	
378	13	2		450	5	ND	
379	5	3		451	20	2	
380	15	5		452	25	1	
381	13	ND		453	18	ND	
382	ND	10	ND	454	20	ND	
383	ND	ND		455	263	2	
384	3	ND		456	13	ND	
385	15	1		457	18	ND	
386	5	ND		458	15	ND	
387	8	ND		459	45	ND	
388	13	ND		460	18	ND	
389	10	ND		461	13	ND	
390	15	ND		462	8	ND	
391	15	ND		463	10	ND	
392	20	ND		464	15	ND	
393	10	ND		465	10	ND	
394	10	ND		466	5	ND	
395	75	ND		467	50	ND	
396	18	ND		468	13	ND	
397 ✓	10	ND		469	5	ND	
-398	5	ND		470	275	ND	
399	10	ND		471	15	ND	
400	3	ND		472	13	ND	
401	10	ND		473	10	ND	
402	13	ND		474 ✓	28	ND	
403	10	ND		505	18	ND	
404	5	ND		506	13	ND	
405	8	ND		507	120	8	
406	18	ND		508	85	6	
407	10	ND		509	15	6	
408	10	ND		510	30	7	
409	75	8		511	13	6	
410	13	ND		512	15	13	
411	13	ND		513	10	ND	
412	10	ND		514	5	2	
413	10	ND		515	3	ND	
414	18	ND		516	5	ND	

GEOCHEMICAL EXPLORATION SERVICES
QUANTITATIVE CHEMICAL ANALYSIS

R. J. Hause

EXPLORATION SERVICES

GEOCHEMICAL LAB REPORT

SAMPLE NO.	Cu	Mo					REMARKS
NPx-517	5	ND					
518	3	ND					
519	3	ND					
520	5	ND					
521	10	ND					
522	63	5					
523	8	ND					
524	ND	ND					
525	5	ND					
526	8	ND					
527	263	ND					
528	38	ND					
529	20	ND					
530	25	ND					
531	10	ND					
532 ✓	5	ND					
880 533	30	ND					
534	10	ND					
475	8	ND					
476	15	ND					
477	25	1					
478	30	ND					
479	3	ND					
480	10	1					
481	5	ND					
482	15	ND					
483	3	ND					
484	10	ND					
- 485 ✓	8	1					
486	ND	ND					
487	5	13					
488	88	5					
489	10	ND					
490	ND	ND					
491	ND	ND					
492	ND	ND					
493	30	ND					
494	50	ND					
495	ND	ND					
496	3	ND					
497	3	ND					
498	ND	ND					
499	3	ND					
500	8	ND					
501	3	ND					
502	10	ND					
503 ✓	93	1					
504 ✓	13	ND					

A rectangular stamp with a double-line border. The words "GEOCHEMICAL" and "EXPLORATION SERVICES" are printed in a bold, sans-serif font, with "GEOCHEMICAL" on the left and "EXPLORATION SERVICES" on the right, slightly overlapping. Below this, the words "SEMI - QUANTITATIVE" and "CHEMICAL ANALYSIS" are printed in a smaller, all-caps font, also overlapping. A large, dark, cursive signature, which appears to be "A. F. Borch", is written across the center of the stamp.

W. Bender

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT #R40-2-65

Type Samples Soil

From J. R. Mowat

Date November 8,

1965

Bisulphate fusion - HCl leach
Extraction

Fraction Used -80 mesh

Analyst W.F.B. & M.C.

SAMPLE NO.	ppm Cu	ppm Mo		Sample No.	ppm Cu	ppm Mo	REMARKS
NP-535	13	ND ✓		NP-598 ✓	10	ND	
536	5	ND		599	5	ND	
537	8	ND		600	ND	ND	
538	3	ND		601	ND	ND	
539	30	ND		602	8	ND	
540	5	ND		603	8	1	
541	160	7		604	3	ND	
542	338	11		605	18	ND	
543	23	ND		606	10	ND	
544	140	ND		607	20	ND	
545	ND	ND		608	8	ND	
546	ND	ND		609	13	ND	
547	160	9		610	5	ND	
548	8	ND		611	25	ND	
549	ND	ND		612	18	ND	
550	10	5		613	30	ND	
551	10	1		614	53	ND	
552	10	ND		615	50	ND	
553	3	1		616	ND	ND	
554	30	25		617	ND	ND	
555	5	ND		618	3	ND	
556	25	1		619	ND	ND	
557	8	ND		620 ✓	10	ND	
558	ND	ND		621 ✓	8	ND	
559	80	ND		622	100	ND	
560	5	ND		623	8	ND	
561	20	ND		624	10	ND	
562	10	ND		625	5	ND	
563	8	ND		626	10	ND	
564	8	ND		627	8	ND	
565	13	ND		628	ND	ND	
566	30	ND		629	10	ND	
567	8	ND		630	3	ND	
568	13	ND		631	13	ND	
569	5	ND		632	10	ND	
570	10	ND		633	ND	ND	
571	38	ND		634	5	ND	
572	8	ND ✓		635	50	8	
573	10	ND		636	40	38	
574	20	ND		637	23	10	
575	15	ND		638	10	2	
576	113	ND		639	8	5	
577	10	ND		640	8	ND	
578	10	ND		641	3	ND	
579	23	ND		642	5	ND	
580	8	ND		643	8	ND	
581	8	ND		644 ✓	10	2	
582	10	ND		645 ✓	8	ND	
583	8	ND		646	5	ND	
584	5	ND		647	10	ND	
585	3	ND		648	10	13	
586	ND	ND		649	ND	1	
587	3	ND		650	25	1	
588	3	ND		651	13	ND	
589	10	13		652	18	ND	
590	ND	ND		653	88	ND	
591	ND	ND		654	38	ND	
592	3	10		655	33	30	
593	5	ND		656	68	8	
594	ND	ND		657	70	ND	
595	3	1 ✓		658	3	ND	
596	23	23		659	3	ND	
597	3	ND		660	ND	ND	

GEOCHEMICAL EXPLORATION SERVICES
SEMI-QUANTITATIVE CHEMICAL ANALYSIS

J.H. Bender

EXPLORATION SERVICES

GEOCHEMICAL LAB REPORT #R40-2-65

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT # R40-3-65

Type Samples Soil

Extraction Bisulphate fusion-HCl leach

From J. R. Mowat

Fraction Used -80 mesh

Date November 9,

1965

Analyst W.F.B. & M.C.

SAMPLE NO.	ppm Cu	ppm Mo		Sample No.	ppm Cu	ppm Mo	REMARKS
NP-695	8	ND		NP-758	10	2	
696	5	5		759	38	2	
697	3	1		760	18	ND	
698	25	6		761	3	ND	
699	38	30		762	5	ND	
700	3	ND		763	20	1	
701	5	ND		764	5	ND	
702	ND	ND		765	8	ND	
703	8	ND		766	8	ND	
704	3	ND		767	5	9	
705	10	ND		768	3	2	
706	5	ND		769	5	1	
707	ND	ND		770	ND	ND	
708	3	ND		771	ND	ND	
709	5	ND		772	73	6	
710	ND	ND		773	3	ND	
711	ND	ND		774	30	ND	
712	ND	ND		775	10	ND	
713	ND	ND		776	5	ND	
714	3	ND		777	3	ND	
715	ND	ND		778	ND	ND	
716	ND	ND		779	ND	ND	
717	ND	ND		780	3	ND	
718	25	ND		781	5	ND	
719	5	ND		782	ND	ND	
720	3	ND		783	3	ND	
721	ND	ND		784	ND	ND	
722	10	ND		785	3	ND	
723	ND	ND		786	3	ND	
724	3	ND		787	ND	ND	
725	ND	ND		788	ND	ND	
726	ND	ND		789	ND	ND	
727	ND	ND		790	3	ND	
728	13	ND		791	ND	ND	
729	ND	ND		792	ND	ND	
730	ND	ND		793	ND	ND	
731	15	ND		794	25	ND	
732	3	ND		795	ND	ND	
733	18	ND		796	3	ND	✓
734	5	ND		797	ND	ND	
735	3	ND		798	3	ND	
736	ND	ND		799	63	ND	
737	ND	ND		800	38	ND	
738	ND	ND		801	28	ND	
739	ND	ND		802	5	ND	
740	ND	ND		803	13	ND	
741	ND	ND		804	3	ND	
742	5	ND		805	3	ND	
743	3	ND		806	5	ND	
744	ND	ND		807	ND	ND	
745	5	ND		808	5	ND	
746	10	ND		809	3	ND	
747	3	ND		810	30	1	
748	ND	ND		811	8	ND	
749	ND	ND		812	18	1	
750	15	ND		813	40	ND	
751	13	ND		814	3	ND	
752	15	9					
753	45	2					
754	15	11					
755	8	8					
756	5	1					
757	13	20					

EXPLORATION SERVICES
GEOCHEMICAL SEMI-QUANTITATIVE CHEMICAL ANALYSIS

Per A. F. Bandar

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT # R40-4-65

Type Samples..... Soil

From..... J. R. Mowat

Date..... November 11, 1965

Pyrosulphate fusion-HCl leach

Extraction..... Fraction Used..... -80 mesh

Analyst..... W.F.B. & M.C.

SAMPLE NO.	ppm Cu	ppm Mo		Sample No.	No.	ppm Cu	ppm Mo	REMARKS
NP-815 ✓	55	36		NP-1550		ND	ND	
816	3	ND		1551		3	ND	
817	50	7		1552		8	ND	
818	ND	ND		1553		10	ND	
819	38	7		1554		13	ND	
820	ND	ND		1555		50	ND	
821	113	13		1556		8	ND	
822	23	2		1557		5	ND	
823	3	1		1558		15	ND	
824	23	2		1559		3	ND	
825	3	ND		1560		ND	ND	
826	13	ND		1561		ND	ND	
827	18	ND		1562		ND	ND	
828	10	ND		1563		ND	ND	
829	10	ND		1564		3	ND	
830	5	ND		1565		225	ND	
831	5	ND		1566		30	ND	
1500	10	ND		1567		8	ND	
1501	13	ND		1568		38	ND	
1503	13	ND		1569		ND	ND	
1504	38	ND		1570		ND	ND	
1505	5	ND		1571		15	ND	
1506	8	ND		1572		20	ND	
1507	5	ND		1573		20	ND	
1508	25	ND		1574		ND	ND	
1511	45	8		1575		ND	ND	
1512	75	ND		1576		3	ND	
1513	15	1		1577		ND	ND	
1514	3	ND		1578		5	ND	
1515	3	5		1579		13	ND	
1516	5	ND		1580		10	ND	
1517	ND	ND		1581		10	ND	
1518	ND	ND		1582		ND	ND	
1519	3	1		1583		5	ND	
1520	80	ND		1584		63	13	
1521	3	ND		1585		23	ND	
1522	8	ND		1586		45	7	
1523	50	ND		1587		10	ND	
1524	10	ND		1588		3	ND	
1525	ND	ND		1589		ND	ND	
1526	5	ND		1590		ND	ND	
1527	3	ND		1591		ND	ND	
1528	10	ND		1592		8	ND	
1529	23	ND		1593		ND	ND	
1530	25	ND		1594		ND	ND	
1531	20	ND		1595		3	ND	
1532	30	ND		1596		13	ND	
1533	28	7		1597		15	ND	
1534	23	ND		1598		13	6	
1536	15	1		1599		25	ND	
1537	5	ND		1600		ND	ND	
1538	ND	ND		1601		105	10	
1539	20	ND		1602		5	ND	
1540	55	ND		1603		23	ND	
1541	28	ND		1604		18	ND	
1542	33	9		1605		ND	ND	
1543	10	ND		1606		20	ND	
1544	3	ND		1607		45	ND	
1545	ND	ND		1608		8	ND	
1546	13	ND		1609		110	13	
1547	ND	ND		1610		28	ND	
1548	15	ND		1611		ND	ND	
1549	15	ND		1612		25	ND	

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT

Type Samples.....Soil.....

Extraction pyrosulphate fusion, HCl leach

From J. R. Mowat, 56 Sparks Street.....

Fraction Used.....80 mesh.....

Date.....November 12.....1965.....

Analyst.....W. F. B. & M. C.

SAMPLE NO.	Cu	Mo		sample number	Cu	Mo	REMARKS
NPx-1688 ✓	ND	ND		NPX-1782	ND	ND	
1689	ND	ND		1783	ND	ND	all values are given
1690	ND	ND		1784	ND	ND	in ppm
1691	15	ND		1785	ND	ND	
1692	13	ND		1786	13	ND	
1693	5	ND		1787	10	ND	the value ND indicates
1694	ND	1		1788	ND	ND	that the element was
1695	38	1		1789	ND	ND	not detected
1696	25	1		1790	ND	ND	
1697	3	ND		1791	ND	ND	
1698	15	ND		1800	5	ND	
1699	10	ND		1801	3	ND	
1700	10	ND		1802	ND	ND	
1701	10	ND		1803	10	8	
1702	10	ND		1804	45	2	
1703	8	ND		1805	68	15	
1704	8	ND		1806	18	6	
1705	75	2		1807	18	1	
1737	13	ND		1808	13	ND	
1738	5	ND		1809	18	ND	
1739	278	8		1810	8	11	
1740	263	14		1811	23	4	
1741	25	ND		1812	63	47	
1742	25	ND		1813	55	11	
1743	3	ND		1814	50	1	
1744	8	ND		1815	13	ND	
1745	8	ND		1816	53	ND	
1746	3	ND		1817	8	ND	
1747	5	ND		1818	5	ND	
1748	75	ND		1819	18	9	
1749	15	ND		1820	3	ND	
1750	10	ND		1821	13	ND	
1751	ND	ND		1822	28	8	
1752	3	ND		1823	3	ND	
1753	35	5		1824	5	ND	
1754	13	8		1825	125	43	
1755	ND	ND		1826	ND	ND	
1756	5	ND		1827	5	1	
1757	30	6		1828	5	4	
1758	ND	1		1829	ND	ND	
1759	13	ND		1830	8	ND	
1760	10	ND		1839	10	ND	
1761	8	ND		1840	10	ND	
1762	8	ND		1841	13	ND	
1763	25	ND		1842	8	ND	
1764	25	ND		1843	ND	ND	
1765	3	ND		1844	3	ND	
1766	3	ND		1845	ND	ND	
1767	13	ND		1848	ND	ND	
1768	18	ND		1849	ND	ND	
1769	28	ND		1850	ND	ND	
1770	8	ND		1851	ND	ND	
1771	3	ND		1852	200	ND	
1772	10	ND		1853	630	ND	
1773	5	1		1854	110	ND	
1774	45	6		1855	95	ND	
1775	8	ND		1856	5	ND	
1776	ND	ND		1857	3	ND	
1777	20	ND		1858	ND	ND	
1778	5	ND		1859	20	ND	
1779	18	ND		1860	ND	ND	
1780	70	2		1861	5	ND	
1781	3	ND		1862	8	ND	

GEOCHEMICAL SEMI-QUANTITATIVE CHEMICAL ANALYSIS
EXPLORATION SERVICES

Banda

EXPLORATION SERVICES

GEOCHEMICAL LAB REPORT

GEOCHEMICAL EXPLORATION SERVICES
SEMI - QUANTITATIVE CHEMICAL ANALYSIS

C.F. Bandiera

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT # R42-2-65

Type Samples Soil

Extraction Pyrosulphate fusion-HCl leach

From J. R. Mowat

Fraction Used -80 mesh

Date November 16,

1965

Analyst W.F.B. & M.C.

SAMPLE NO.	ppm Cu	ppm Mo		Sample No.	ppm Cu	ppm Mo	REMARKS
NP-944	10	1		NP-1007	3	1	
945	8	ND		1008	ND	ND	
946	5	1		1009	25	ND	
947	10	ND		1010	ND	1	
948	25	14		1011	5	ND	
949	15	27		1012	ND	ND	
950	38	ND		1013	3	ND	
951	8	ND		1014	23	ND	
952	25	ND		1015	5	ND	
953	45	11		1016	ND	ND	
954	10	10		1017	ND	ND	
955	30	9		1018	ND	36	
956	88	ND		1019	ND	ND	
957	25	ND		1020	ND	ND	
958	30	ND		1021	5	8	
959	23	ND		1022	ND	5	
960	95	133		1023	ND	7	
961	8	ND		1024	63	47	
962	10	ND		1025	3	ND	
963	140	8		1026	5	1	
964	10	ND		1027	ND	ND	
965	3	ND		1028	95	10	
966	35	6		1029	ND	1	
967	ND	ND		1030	5	4	
968	23	25		1031	ND	ND	
969	23	13		1032	ND	ND	
970	8	16		1033	ND	ND	
971	30	1		1034	3	1	
972	3	ND		1035	ND	2	
973	ND	ND		1036	ND	ND	
974	3	ND		1037	ND	1	
975	5	2		1038	25	ND	
976	ND	ND		1039	10	8	
977	3	ND		1040	28	40	
978	5	1		1041	1250+	33	
979	18	4		1042	88	ND	
980	190	1		1043	13	9	
981	10	ND		1044	25	4	
982	ND	ND		1045	ND	1	
983	25	ND		1046	3	1	
984	3	ND		1047	ND	ND	
985	8	3		1048	5	ND	
986	23	4		1049	15	ND	
987	5	ND		1050	25	42	
988	25	2		1051	3	1	
989	ND	ND		1052	140	ND	
990	10	ND		1053	3	ND	
991	ND	2		1054	18	ND	
992	13	10		1055	38	1	
993	23	1		1056	3	10	
994	25	1		1057	63	27	
995	5	1		1058	30	30	
996	10	ND		1059	ND	ND	
997	8	ND		1060	8	ND	
998	175	131		1061	ND	ND	
999	3	ND		1062	3	ND	
1000	ND	ND		1063	135	2	
1001	ND	ND		1064	ND	ND	
1002	ND	35		1065	ND	ND	
1003	45	ND		1066	48	13	
1004	25	9		1067	105	5	
1005	45	10		1068	3	2	
1006	3	ND		1069	10	10	

GEOCHEMICAL EXPLORATION SERVICES
SEMI-QUANTITATIVE CHEMICAL ANALYSIS

[Handwritten signatures and initials over the stamp]

EXPLORATION SERVICES

GEOCHEMICAL LAB REPORT # R42-2-65

SAMPLE NO.	ppm Cu	ppm Mo					REMARKS
NP-1070	190	13					
1071	75	4					
1072	ND	4					
1073	ND	1					
1074	3	1					
1075	5	2					
1076	38	ND					
1077	3	10					
1078	ND	ND					
1079	3	1					
1080	13	ND					
1081	ND	ND					
1082	ND	ND					
1083	ND	ND					
1084	10	ND					
1085	38	2					
1086	ND	ND					
1087	8	ND					
1088	13	ND					
1089	ND	ND					
1090	ND	ND					
1091	ND	ND					
1092	ND	ND					
1093	25	2					
1094	ND	ND					
1095	ND	ND					
1096	ND	ND					
1097	ND	ND					
1098	ND	9					
1099	25	6					
1100	13	8					
1101	3	6					
1102	13	2					

A rectangular stamp with a faint dotted grid background. The text "GEOCHEMICAL EXPLORATION SERVICES" is printed diagonally across the top. Below it, "SEMI - QUANTITATIVE CHEMICAL ANALYSIS" is also printed diagonally. A large, cursive signature, appearing to read "John Sander", is written across the center of the stamp.

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT # R42-4-65

Type Samples..... Soil.....

Extraction Pyrosulphate fusion-HCl leach

From..... J. R. Mowat.....

Fraction Used..... -80 mesh.....

Date..... November 18,..... 1965.....

Analyst..... W.E.B. & M.C.

SAMPLE NO.	ppm Cu	ppm Mo		Sample No.	ppm Cu	ppm Mo	REMARKS
NP-1431	ND	ND		NP-1494	25	ND	
1432	ND	ND		1495	3	ND	
1433	ND	ND		1496	13	ND	
1434	ND	ND		1497	ND	ND	
1435	ND	ND		1498	ND	ND	
1436	ND	ND		1499	10	ND	
1437	8	ND					
1438	ND	ND					
1439	23	ND					
1440	10	ND					
1441	5	ND					
1442	10	ND					
1443	ND	ND					
1444	ND	ND					
1445	ND	ND					
1446	8	ND					
1447	3	ND					
1448	ND	ND					
1449	ND	ND					
1450	ND	ND					
1451	ND	ND					
1452	ND	ND					
1453	ND	ND					
1454	ND	ND					
#B#1455	5	ND					
#B#1456	3	ND					
1457	3	ND					
1458	ND	ND					
1459	ND	ND					
1460	3	ND					
1461	3	ND					
1462	ND	ND					
1463	ND	ND					
1464	ND	ND					
1465	ND	ND					
1466	3	ND					
1467	ND	ND					
1468	ND	ND					
1469	ND	ND					
1470	ND	ND					
1471	ND	ND					
1472	ND	ND					
1473	3	ND					
1474	20	1					
1475	10	ND					
1476	ND	ND					
1477	3	1					
1478	ND	ND					
1479	ND	ND					
1480	ND	ND					
1481	10	ND					
1482	ND	ND					
1483	ND	ND					
1484	ND	ND					
1485	18	ND					
1486	15	ND					
1487	10	ND					
1488	5	ND					
1489	ND	ND					
1490	15	ND					
1491	5	ND					
1492	5	ND					
1493	20	ND					

EXPLORATION SERVICES
GEOCHEMICAL SEMI-QUANTITATIVE CHEMICAL ANALYSIS

W.F. Barker

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT # R42-3-65

Type Samples Soil

Extraction Pyrosulphate fusion-HCl leach

From J. R. Mowat

Fraction Used -80 mesh

Date November 17, 1965 19

Analyst W.F.B. & M.C.

SAMPLE NO.	ppm Cu	ppm Mo		Sample No.	ppm Cu	ppm Mo	REMARKS
NP-1104	ND ✓	2		NP-1374	15	ND	
1105	ND	1		1375	ND	ND	
1106	5	6		1376	ND	ND	
1107	3	ND		1377	3	ND	
1108	ND	ND		1378	ND	ND	
1109	ND	ND		1379	8	ND	
1110	3	ND		1380	5	ND	
1111	5	1		1381	5	ND	
1112	3	9		1382	8	ND	
1113	ND	ND		1383	8	ND	
1114	5	ND		1384	3	ND	
1115	113	10		1385	ND	ND	
1116	ND	ND		1386	10	ND	
1117	ND	ND		1387	3	ND	
1118	25	1		1388	ND	ND	
1119	ND	ND		1389	1	ND	
1120	375	13		1390	ND	ND	
1121	45	10		1391	ND	ND	
1122	13	4		1392	10	ND	
1123	8	ND		1393	ND	ND	
1124	3	ND		1394	ND	ND	
1125	ND	ND		1395	5	ND	
1126	ND	ND		1396	ND	ND	
1127	ND	ND		1397	ND	ND	
1128	ND	ND		1398	3	ND	
1129	3	ND		1399	3	ND	
1130	ND	ND		1400	8	ND	
1131	3	ND		1401	10	ND	
1132	10	5		1402	ND	ND	
1133	8	ND		1403	3	ND	
1134	3	ND		1404	15	ND	
1135	ND	1		1405	3	ND	
1136	ND ✓	2		1406	5	ND	
1344	ND	ND		1407	ND	ND	
1345	ND	ND		1408	ND	ND	
1346	ND	ND		1409	3	ND	
1347	ND	ND		1410	ND	ND	
1348	18	ND		1411	ND	ND	
1349	3	ND		1412	ND	ND	
1350	ND	ND		1413	3	ND	
1351	ND	ND		1414	5	ND	
1352	ND	ND		1415	3	ND	
1353	ND	ND		1416	ND	ND	
1354	8	ND		1417	ND	ND	
1355	ND	ND		1418	ND	ND	
1356	ND	ND		1419	ND	ND	
1357	ND	ND		1420	ND	ND	
1358	ND	ND		1421	ND	ND	
1359	ND	ND		1422	38	ND	
1360	ND	ND		1423	ND	ND	
1361	15	ND		1424	ND	ND	
1362	ND	ND		1425	23	ND	
1363	3	ND		1426	ND	ND	
1364	ND	ND		1427	20	ND	
1365	ND	ND		1428	ND	ND	
1366	ND	ND		1429	3	ND	
1367	ND	ND		1430	18	ND	
1368	3	ND					
1369	ND	ND					
1370	ND	ND					
1371	ND	ND					
1372	ND	ND					
1373	ND	ND					
							EXPLORATION SERVICES GEOCHEMICAL SEMI-QUANTITATIVE CHEMICAL ANALYSIS
							Per <i>C.W. Bunker</i>

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT #R40-6-65

Type Samples Soil

Extraction Pyrosulphate fusion-HCl leach

From J. R. Mowat

Fraction Used -80 mesh

Date November 15, 1965

Analyst W.F.B. & M.C.

SAMPLE NO.	ppm Cu	ppm Mo		Sample No.	ppm Cu	ppm Mo	REMARKS
NP-1896	15	ND		NP-1959	3	ND	
1897	3	ND		1960	10	ND	
1898	ND	ND		1961	3	ND	
1899	ND	ND		1962	3	ND	
1900	ND	ND		1963	8	ND	
1901	ND	ND		1964	5	ND	
1902	ND	ND		1965	5	ND	
1903	ND	ND		1966	10	ND	
1904	ND	ND		1967	3	ND	
1905	ND	ND		1968	5	ND	
1906	ND	ND		1969	5	ND	
1907	20	ND		1970	45	ND	
1908	23	ND		1971	3	ND	
1909	3	ND		1972	5	ND	
1910	375	ND		1973	ND	ND	
1911	25	ND		1974	8	ND	
1912	5	ND		1975	8	ND	
1913	10	ND		1976	15	ND	
1914	15	ND		1977	5	ND	
1915	8	ND		1978	8	ND	
1916	23	ND		1979	3	ND	
1917	15	ND		1980	10	ND	
1918	10	ND		1981	45	5	
1919	# 13	ND		1982	18	ND	
1920	13	ND		1983	3	ND	
1921	20	ND		1984	3	ND	
1922	15	ND		1985	ND	ND	
1923	10	ND		1986	ND	ND	
1924	8	ND		1987	ND	ND	
1925	13	ND		1988	ND	ND	
1926	3	ND		1989	8	ND	
1927	3	ND		1990	ND	ND	
1928	13	ND		1991	ND	ND	
1929	13	ND		1992	8	ND	
1930	8	ND		1993	28	ND	
1931	13	ND		1994	5	ND	
1932	13	ND		1995	15	ND	
1933	13	ND		1996	5	ND	
1934	10	ND		1997	5	ND	
1935	13	ND		1998	8	ND	
1936	13	ND		1999	ND	ND	
1937	3	ND		2000	5	ND	
1938	48	ND		2001	10	ND	
1939	10	16					
1940	33	ND					
1941	5	9					
1942	13	35					
1943	13	9					
1944	10	ND					
1945	8	ND					
1946	20	ND					
1947	5	ND					
1948	5	ND					
1949	3	ND					
1950	3	ND					
1951	13	ND					
1952	8	ND					
1953	20	5					
1954	15	ND					
1955	3	ND					
1956	5	9					
1957	5	ND					
1958	20	38					

GEOCHEMICAL EXPLORATION SERVICES
SEMI - QUANTITATIVE CHEMICAL ANALYSIS

10. *Bonelot*

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

GEOCHEMICAL LAB REPORT #R42-1-65

Type Samples..... Soil

Extraction Pyrosulphate fusion-HCl leach

From..... J. R. Mowat

Fraction Used -80 mesh

Date..... November 15, 1965

Analyst W.F.B. & M.C.

SAMPLE NO.	ppm Cu	ppm Mo		Sample No.	ppm Cu	ppm Mo	REMARKS
NP-832	13	ND		NP-917	ND	ND	
833	25	ND		918	10	ND	
834	13	ND		919	8	33	
835	15	ND		920	8	ND	
836	23	ND		921	ND	ND	
837	23	ND		922	10	ND	
838	25	ND		923	3	ND	
839	30	ND		924	ND	ND	
840	25	ND		925	ND	ND	
841	190	ND		926	ND	ND	
842	23	ND		927	8	ND	
843	45	1		928	ND	ND	
844	15	ND		929	25	ND	
845	50	ND		930	ND	ND	
846	25	ND		931	ND	ND	
847	8	ND		932	5	ND	
848	23	ND		933	13	ND	
849	20	ND		934	5	ND	
850	23	ND		935	10	ND	
851	13	ND		936	8	ND	
852	8	ND		937	10	ND	
853	10	1		938	3	ND	
854	10	ND		939	10	1	
855	50	ND		940	210	10	
856	20	1		941	18	ND	
857	10	1		942	13	ND	
858	13	ND		943	10	ND	
859	18	ND					
860	25	ND					
861	25	ND					
862	25	ND					
863	8	ND					
864	13	ND					
865	10	ND					
866	3	ND					
867	10	ND					
868	160	1					
869	180	48					
870	13	ND					
871	ND	ND					
872	23	ND					
873	5	ND					
874	ND	ND					
897	13	ND					
898	8	ND					
899	10	ND					
900	13	ND					
901	13	ND					
902	5	ND					
903	3	ND					
904	10	ND					
905	5	5					
906	10	ND					
907	45	5					
908	3	ND					
909	10	ND					
910	25	ND					
911	63	13					
912	15	13					
913	18	2					
914	25	5					
915	48	ND					
916	3	ND					

EXPLORATION SERVICES
GEOCHEMICAL SEMI-QUANTITATIVE CHEMICAL ANALYSIS

At: Barlow

EXPLORATION SERVICES

P.O. BOX 3382, POSTAL STATION "C"
OTTAWA 3, ONTARIO

(12)

GEOCHEMICAL LAB REPORT R43-65

Type Samples..... Soil
From..... J. R. Mowat
Date..... November 19..... 1965.

Extraction..... pyrosulphate fusion- HCL leach
Fraction Used..... -80 mesh
Analyst..... W.F.B. & M.C.

SAMPLE NO.	Cu	Mo		sample number	Cu	Mo	REMARKS
NP-1137	3	ND		NP-1201	18	ND	
1138	ND	ND		1202	5	ND	
1139	30	13		1203	3	ND	
1140	ND	ND		1204	15	ND	
1141	38	60		1205	ND	ND	values are given in ppm
1142	18	40		1206	ND	ND	
1143	88	33		1207	ND	ND	
1144	ND	ND		1208	5	ND	the value ND
1145	ND	ND		1209	3	ND	indicates that the
1146	83	27		1210	ND	ND	element was not
1147	3	1		1211	ND	ND	detected.
1148	48	35		1212	25	ND	
1149	5	ND		1213	13	ND	
1150	23	10		1214	ND	ND	
1151	3	ND		1215	ND	ND	
1152	20	27		1216	ND	ND	
1153	ND	1		1217	20	ND	
1154	23	ND		1218	8	ND	
1155	ND	ND		1219	ND	ND	
1156	ND	ND		1220	3	ND	
1157	ND	ND		1221	13	ND	
1158	ND	ND		1222	10	ND	
1159	50	63		1223	8	ND	
1160	18	1		1224	3	ND	
1161	ND	ND		1225	5	ND	
1162	3	ND		1226	3	ND	
1163	3	ND		1227	3	ND	
1164	ND	ND		1228	3	ND	
1165	ND	ND		1229	ND	ND	
1166	ND	ND		1230	ND	ND	
1167	45	3		1231	13	ND	
1168	ND	ND		1232	ND	ND	
1169	23	2		1233	ND	ND	
1170	ND	ND		1234	10	ND	
1171	10	ND		1235	13	ND	
1172	ND	ND		1236	ND	ND	
1173	ND	ND		1237	3	ND	
1174	ND	ND		1238	ND	ND	
1175	25	ND		1239	ND	ND	
1176	25	ND		1240	ND	ND	
1177	50	2		1241	ND	ND	
1178	ND	ND		1242	ND	ND	
1179	98	ND		1243	ND	ND	
1180	ND	ND		1244	18	ND	
1181	ND	ND		1245	25	ND	
1182	ND	ND		1246	50	ND	
1183	ND	ND		1247	ND	ND	
1184	15	ND		1248	3	ND	
1185	25	ND		1249	ND	ND	
1186	3	ND		1250	8	ND	
1187	3	ND		1251	ND	ND	
1188	ND	ND		1252	5	ND	
1189	ND	ND		1253	3	ND	
1190	ND	ND		1254	3	ND	
1191	ND	ND		1255	ND	ND	
1192	3	ND		1256	3	ND	
1193	ND	ND		1257	3	ND	
1194	10	ND		1258	3	ND	
1195	ND	ND		1259	5	ND	
1196	ND	ND		1260	20	ND	
1197	ND	ND		1261	8	ND	
1198	ND	ND					
1199	ND	ND					
1200	20	ND					

GEOCHEMICAL LAB - QUALITY & CHEMICAL ANALYSIS

EXPLORATION SERVICES

Geochemical Lab - Quality & Chemical Analysis



41P15NE8274 63E.9 POWELL

900

ONTARIO

DEPARTMENT OF MINES.

TO— Dr. M. E. Hurst,
Director, Geological Branch,
Department of Mines.

Two types of assessment work credits are requested on the attached file. Firstly, a geological assessment work credit of 40 days is requested for each of mining claims MR 37464 to 37481 inclusive in Powell Township for a geochemical survey. Secondly, an assessment work credit of 8 days is requested for each of the same claims under Section 84 (14) of the Mining Act. These credits are for an expenditure of \$2,233.33 on assays of the geochemical samples.

FWM:smm

R. V. Scott,
Director.

January 28, 1966.

PAX INTERNATIONAL MINES LTD.
POWELL TWP.—NORTH GROUP
GEOCHEMICAL SURVEY
(COPPER)

SCALE 1:2000

DRAWN R.T. WILLIS DATE OCT/NOV/965

SURVEY Y. NO. 147

CHECKED J.R. MOVAT

ON/OFFICE

CANADA

ASTRONOMIC

LOG

BASELINE

LAKE

MR 37469

MR 37468

MR 37467

MR 37466

MR 37465

MR 37464

MR 37463

MR 37462

MR 37461

MR 37460

MR 37459

MR 37458

MR 37457

MR 37456

MR 37455

MR 37454

MR 37453

MR 37452

MR 37451

MR 37450

MR 37449

MR 37448

MR 37447

MR 37446

MR 37445

MR 37444

MR 37443

MR 37442

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MR 37401

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MR 37401

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MR 37401

MR 37400

MR 37409

MR 37408

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MR 37405

MR 37404

MR 37403

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MR 37404

MR 37403

MR 37402

MR 37401

MR 37400

MR 37409

MR 37408

MR 37407

MR 37406

MR 37405

MR 37404

MR 37403

MR 37402

MR 37401

MR 37400

MR 37409

MR 37408

MR 37407

