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2.3687

REPORT ON THE RESULTS OF A PROGRAMME OF CHANNEL
SAMPLING, HUMUS GEOCHEMISTRY AND GEOLOGICAL MAPPING

ON

MINERAL CLAIMS

489739, 489740, 489745, 489746, 489747, 489748 & 490220

ECHO BAY AREA, LAKE OF THE WOODS,

KENORA MINING DIVISION, ONTARIO

NTS 52 E/10, MNR PLAN 1949

49°39'30"N, 94°51'30"W

BY

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TORONTO, ONTARIO

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MINING LANDS SECTION

SUMMARY

Gold occurs in two separate areas of a group of nine contiguous 40 acre mineral claims staked by the writer in 1979. The claims are located in the Echo Bay area of Lake of the Woods, approximately 20 miles south-west of Kenora, Ontario.

A north-easterly trending quartz carbonate shear zone within pyritiferous andesites was trenched and sampled in 1943 and yielded gold values ranging from 0.01 to 0.3 ounces per short ton over widths of three to ten feet.

A separate zone of sheared, fissile pyritiferous acid tuffs and quartz veins yielded gold values of 0.02 to 0.98 ounces per short ton from grab samples taken by the author in October, 1979.

During September, October and November, 1980, the author carried out a programme of line cutting, humus sampling, and geological mapping over most of the area of the claim group as well as trenching and channel sampling of a selected area on Claim 489747.

This report describes the 1980 work programme and makes recommendations as to further work.

INTRODUCTION

The author holds one hundred per cent interest in nine contiguous mineral claims in the Echo Bay area of Lake of the Woods, Ontario.

During September, October and November, 1980, the author carried out a programme of line cutting, humus geochemical sampling and geological mapping over most of the area of the claim group. An auriferous zone located by the author in 1979 on the western portion of Claim 489747 was trenched and sampled.

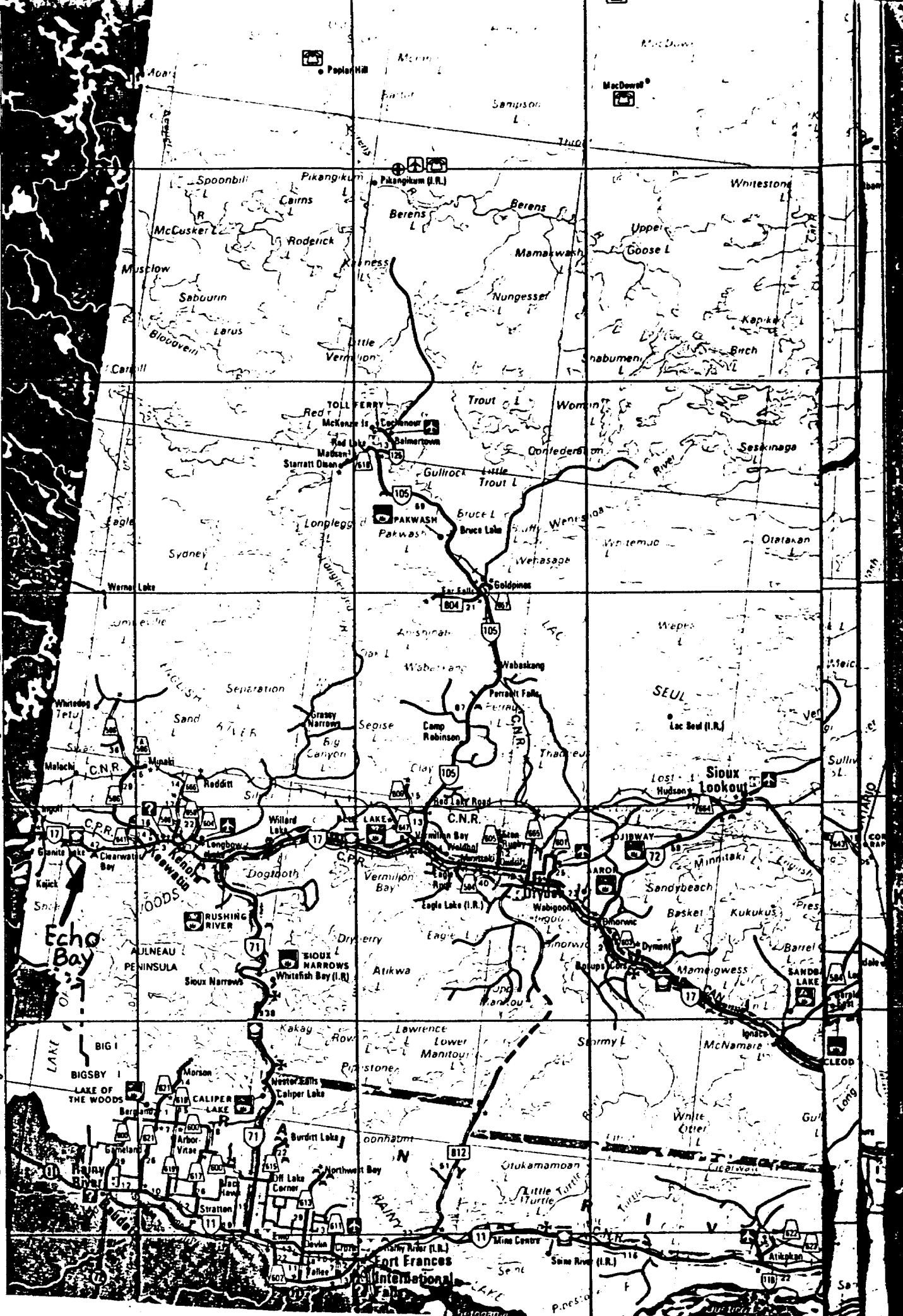
This report contains the details of the 1980 work programme, discusses the results of same and makes recommendations as to further work on the claim group.

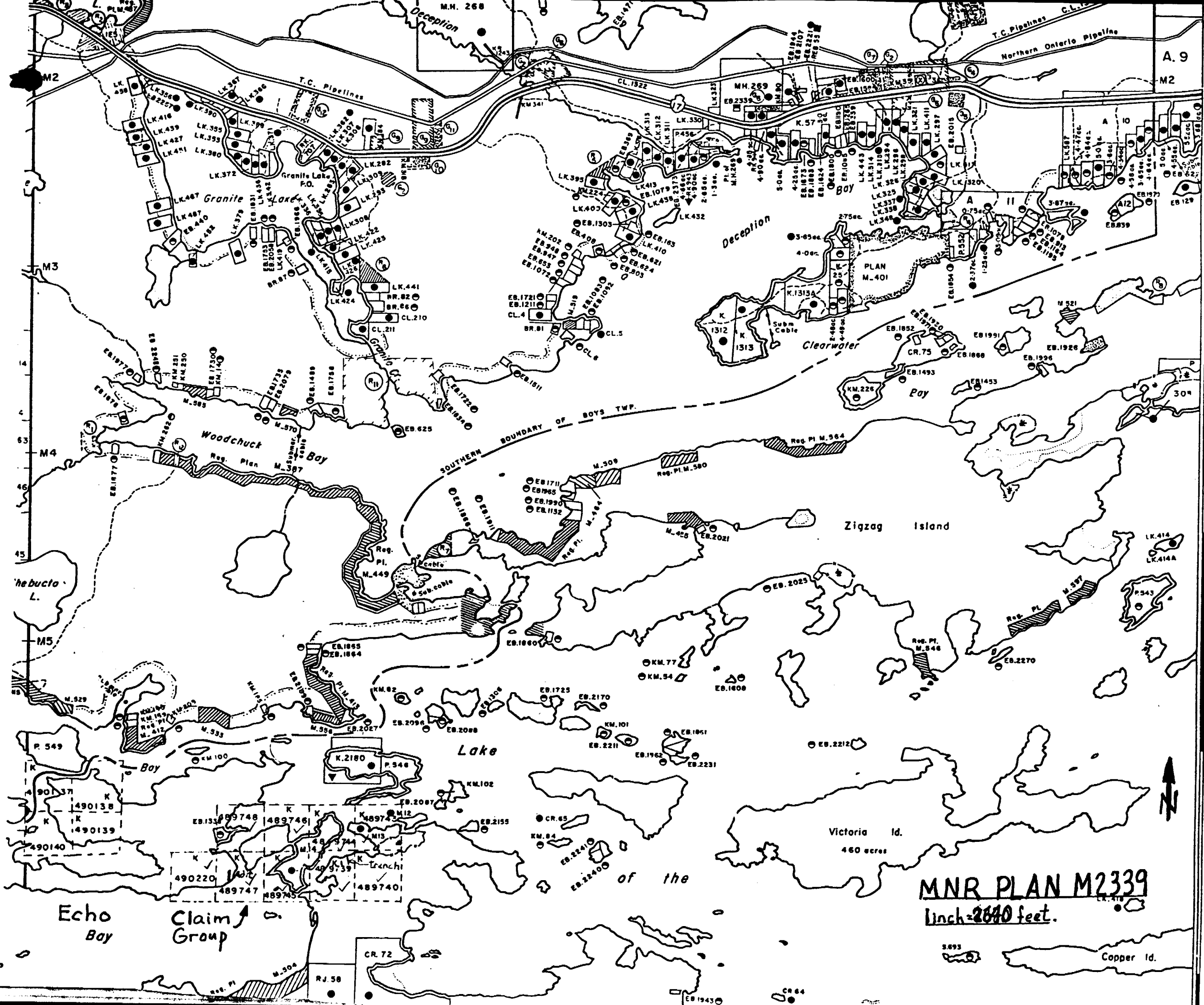
52°

51°

50°

49°





MNR PLAN M2339
1 inch = 2640 feet.

Echo Bay Claim Group

Victoria Id.
460 acres

Copper Id.

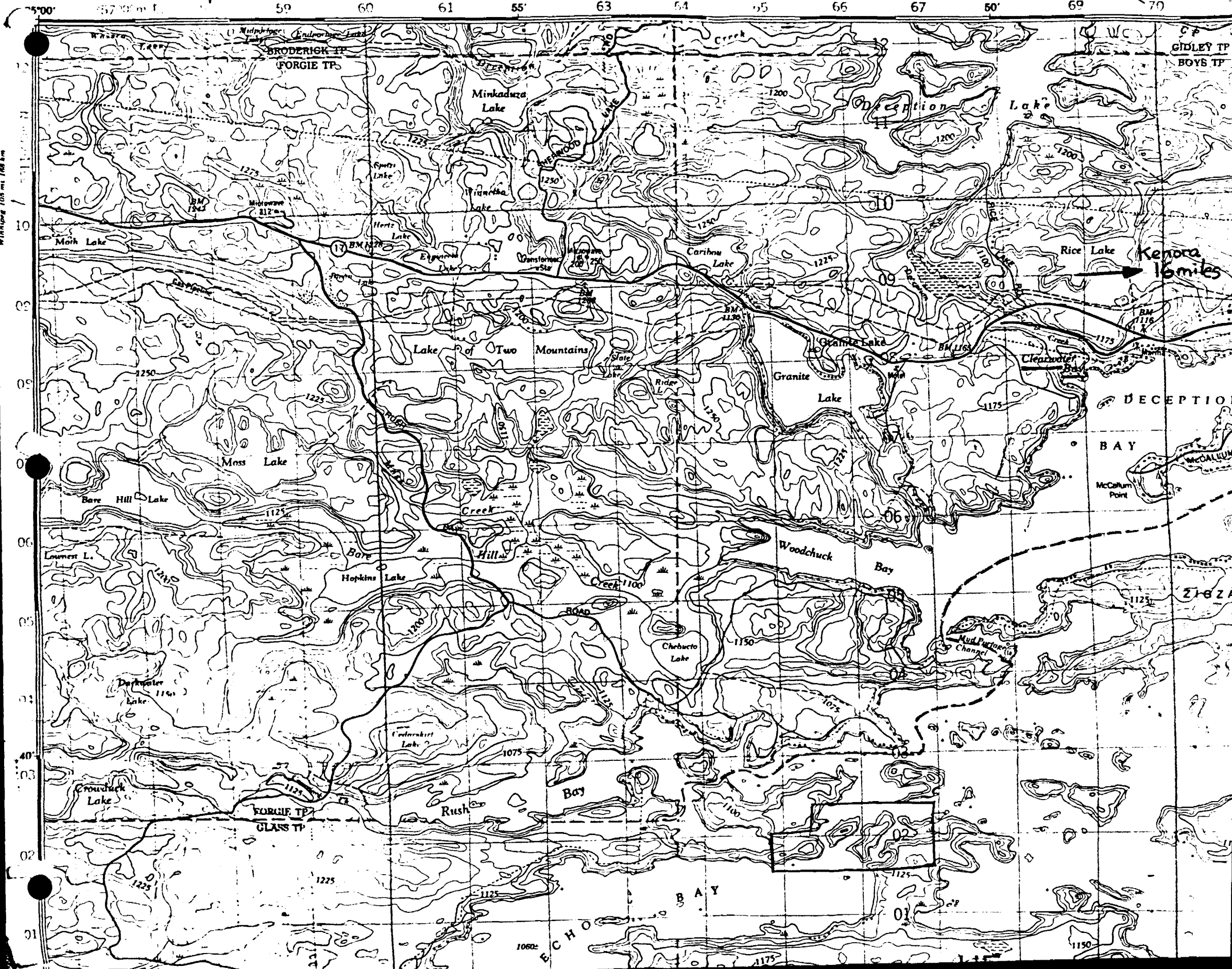
CR. 72

RJ. 58

EB. 1943

CR. 64

Pteronias



Kenora
16 miles

GIDLEY TP
BOYS TP

BRODERICK TP
FORGIE TP

DECEPTION

BAY

McCallum Point

ZIGZA

FORGIE TP
GLASS TP

BAY

ECHO

Winnipeg 105 mi. (168 km)

LOCATION AND ACCESS

The Echo Bay claim group is located 20 miles west south-west of Kenora (population 12,000), in the Kenora Mining Division, Ontario, (49°39'30"N, 94°51'30"W, NTS 52 E 10). Refer to Ontario Ministry of Natural Resources Echo Bay - Boys Township Plan M1949.

A private road which is an extension of the Rush Bay road ends approximately 4000 feet north of the claim group however the most direct access to the claims is via boat from Clearwater Bay. Clearwater Bay is situated 15 miles west of Kenora on Ontario Highway 17 (Trans Canada Highway). Boats are available on a daily rental basis at the Shell Marina in Clearwater Bay. The claim group is situated 7 miles by boat south-west of Clearwater Bay.

Cottages situated 4000 feet north of the property are served by Ontario Hydro. The main Hydro line runs parallel to the Trans Canada Highway and the Trans Canada Pipeline, all of which lie 3 miles north of the property.

Heavy equipment such as diamond drill rigs could be transported directly to the property on a barge via a deep water route from Kenora or over the ice during the winter months.

PROPERTY TITLE

The author staked nine contiguous 40 acre claims in the Echo Bay area in 1979. The claims have all been recorded in the author's name at the office of the Mining Recorder, 808 Robertson Street, Kenora, and the author holds 100 per cent, undivided interest in the claims.

<u>CLAIM NO.</u>	<u>DATE STAKED</u>	<u>DATE RECORDED</u>
489739	June 18, 1979	June 21, 1979
489740	June 20, 1979	June 21, 1979
489743	July 15, 1979	July 26, 1979
489744	July 15, 1979	July 26, 1979
489745	October 11, 1979	October 29, 1979
489746	October 11, 1979	October 29, 1979
489747	October 11, 1979	October 29, 1979
489748	October 12, 1979	October 29, 1979
490220	October 12, 1979	October 29, 1979

It should be noted that portions of claims 489739, 489743, 489744, 489745, 489746 and 489748 as staked out, overlie portions of islands which are patented mining claims and therefore the area of the patented land is excluded from the author's claims. (See claim sketch attached to this report).

TOPOGRAPHY AND VEGETATION

Approximately 35 to 40 per cent of the claim group is covered by the waters of Lake of the Woods. The normal water level in the area is approximately 1060 feet above mean sea level however water levels may drop by as much as three feet in early autumn. The highest point of land in the area is 1175 feet AMSL.

The topography of the area of the claims reflects the bedrock. The claims are underlain by a series of northeast trending basic to acid volcanic rocks intruded by gabbros. The whole sequence has been sheared in the direction of strike thereby giving rise to a series of abrupt escarpments.

The very uneven topography does not lend itself to mechanized logging and consequently much of the area supports a growth of large, mature cedar and pine with younger spruce and fir, on the well drained areas. Poplar and willow grows on the less well drained land.

It is noteworthy that portions of the claims apparently underlain by sheared acid tuffs support only a sparse growth of malformed scrub oak.

Outcrop is abundant and soil cover, mainly grey clay and humus, is thin and poorly developed.

HISTORY OF THE CLAIM GROUP

During the period 1895 to 1905, the Lake of the Woods - Shoal Lake area enjoyed a staking rush which resulted in the discovery of many (?) gold occurrences, several of which became producing gold mines.

The area of the claim group was staked in 1907 by a Mr. J. Gauthier. On one occasion it is said to have been sold for \$10,000 to American interests who however, did no prospecting and allowed the claims to lapse.

About 1940, the area which is now covered by the author's claims 489739 and 489740 was staked by Mr. A. Gauthier and optioned to Sylvanite Gold Mines Ltd. in 1943. Mr. G. Holbrooke of Sylvanite carried out a programme of rock trenching and sampling on what is now claim 489739.

Sylvanite channel sampled twelve rock trenches blasted at irregular intervals over a 880 foot strike length in a series of parallel pyritiferous quartz carbonate veins within a sequence of andesites, dacites and tuffs. The longest trench was 31.6 feet and averaged 0.06 oz. Au/s. ton over that length including 0.1 oz. Au/s. ton over 10 feet.

The Sylvanite sampling was done to test the validity of assays reported from a previous sampling programme. The two programmes combined, cut a total of 84 samples; 32 reported trace while 52 reported values ranging from 0.01 oz./s.t. to 0.3 oz./s.t. over 3 feet. None of the samples reported nil gold.

Sylvanite dropped it's option on the claim group in 1944. In 1947, Mr. R. Thomson, at that time resident geologist of the Ontario Department of Mines in Kenora, visited the property. Mr. Thomson's report concludes that,

" No gold occurrences, with possibilities of being developed into a commercial ore body, was shown to the writer. The occurrences are of interest in showing the presence of gold and suggesting that further prospecting of the group might lead to worthwhile discoveries ".

In 1949, a prospector named Hawes drilled two diamond drill holes underneath one of the old trenches blasted in 1940-1943. The azimuths of the holes were at approximately 180 degrees to one another and apparently intersected a zone assaying \$2.80 Au over 7.6 feet and \$5.90 Au over 7.0 feet. At \$35/oz. this translates to 0.08 oz. over 7.6 feet and 0.17 oz. over 7.0 feet.

HISTORY OF THE CLAIM GROUP, (CONT'D)

The area of what is now the author's claim 489747 was staked in the early 1900's as claim K9451. A 6' x 6' flat adit was driven 72 feet northwards from just above lake level into the hillside presumably to intersect an auriferous zone in acid tuffs 50 feet from the portal of the adit. The adit is free standing, is dry and in good condition.

There are no reports in ODM files or elsewhere of any assay results from this work. Thomson (1947), quotes Mr. A. Gauthier as stating that "zincblende" occurs in the adit. Thomson (1947), reports that "some diamond drilling" was done but the author has not located any drill hole sites.

Thomson (1947), also records verbal reports by A. Gauthier of other gold occurrences in the general area of the author's claims.

(1) M-12, M-13 and M-14, (see claim sketch in this report).

" A quartz vein with strike a little north of east is reported to occur on these three islands. On this vein, on Island M-12, the Nonesuch Shaft was put down to 150 feet ... The vein is stated to be of quartz with plentiful zinc blende. and to show visible gold commonly. Ore was shipped from the mine to the Keewatin Reduction Works; Albert Gauthier said he had seen the returns (since destroyed) and that they had shown an average of \$12.50 per ton (gold at \$20.67 per ounce) at 70 % recovery on the amalgam plates."

(2) Claim K9954 (now Claim 489739)

"A gold occurrence at the lake shore is stated to have a south-easterly strike ".

(3) Claim K9792 (now Claim 489739).

"A body of pyrrhotite is said to occur in the central part of the claim" .

Prior to staking the existing nine claims in June, July and October, 1979, the author took grab samples from one of the trenches on 489739 sampled by Sylvanite in 1944. The grab samples assayed from nil to 0.05 oz. Au/s. ton.

A grab sample taken from a siliceous pyritiferous tuff above the adit on Claim 489747 assayed 0.55 oz. Au/s. ton. The author took additional grab samples from the area of the adit in October, 1979.

HISTORY OF THE CLAIM GROUP, (CONT'D)

The grab samples assayed gold as follows (in ounces per short ton), 0.44, 0.16, 0.02, 0.24, 0.04, 0.97, 0.98 and 0.55.

The samples were assayed by X-Ray Assay Laboratories Limited of 1885 Leslie Street, Don Mills, Ontario. The analytical technique was fire assay with a detection limit of 0.001 ounces per short ton.

GEOLOGY OF THE AREA OF THE CLAIM GROUP

The Echo Bay area lies within the Wabigoon Volcanic Plutonic Belt of the Superior structural province of the Canadian Shield.

The area immediately west of the claim group was mapped by J.C. Davies in 1965, (see ODM Geological Report No. 41). Davies mapped the area immediately south of the claim group in 1968, (see ODM Preliminary Geological Map P 528). The area of the claim group has not been mapped in any detail as part of a regional mapping programme but was covered in broad detail by a large scale regional mapping programme carried out by L. Greer of the Ontario Department of Mines in 1929. (See Map 39e, ODM Annual Report, Vol. 39, Part 3, 1930).

Greer (1929), describes the area of the claims as being underlain by Keewatin "greenstones with small amounts of slaty sediments intruded by Algonian felsite and quartz porphyry".

During October, 1980, the author carried out detailed geological mapping of part of the claim group, namely, portions of 490220, 489748, 489747, 489746 and 489745. The area is underlain by rocks similar to those described by Davies (1965), and therefore represents an eastward continuation of the regional geology as mapped by Davies (1965).

A grid with cross lines each 400 feet (picketed each 100 feet) was used as control during the mapping. The author's observations as to local lithology and structure are contained in two geological maps which are part of this report.

All of the area mapped except the north-west corner of claim 489748 are underlain by north-east striking sheared Keewatin basalts, andesites and intercolated acid tuffs. Relic pillow structures are evident in an altered basic lava flow outcrop in the north-east corner of Claim 489747. On the western portion of Claim 489747, (traversing south to north) the andesites are intercolated with an approximately 200 foot thick sequence of north-easterly trending, thinly bedded (usually fissile) rhyolite to dacite tuffs, all of which dip northwesterly, 50 to 85 degrees.

The fissile acid tuff sequence carries fine-grained disseminated pyrite (0.5 to 2%) and sinuous, discontinuous quartz veins variable in width from 0.5 inches to 18 inches. A 12 inch quartz vein exposed by trenching in the area above the adit on Claim 489747 assays gold values from 0.3 to 0.97 ounces per short ton. This area was stripped and channel sampled by the author during October, 1980, and the results of that work are discussed elsewhere in this report.

GEOLOGY OF THE AREA OF THE CLAIM GROUP (CONT'D)

The fissile, acid tuffs outcrop intermittently along that part of the north shore of Echo Bay covered by Claims 489747 and 490220. Traversing south to north, occasional outcrops of more mafic fissile tuff bands may be seen. On Claim 489748, the volcanic sequence has been intruded by a large mass of sheared, quartz diorite porphyry of unknown dimensions.

Interpretation of gross structural features from aerial photographs and observations during mapping suggests two prominent directions of shearing in the area of the claims.

Shearing is evident in the plane of regional strike, i.e., north-easterly. A second set of faults trending north-south is evident. Both sets of faults give rise to prominent abrupt escarpments. The faulting is probably directly related to the intrusion of the Archean Canoe Lake quartz diorite stock which outcrops approximately $\frac{1}{2}$ mile south of the south boundary of the claim group.

DISCUSSION OF THE RESULTS OF THE HUMUS GEOCHEMICAL PROGRAMME

During October and November, 1980, the author carried out a programme of humus sampling for gold and copper on portions of Claims 489739, 489740, 489745, 489746, 489747, 489748 and 490220. Samples were collected each one hundred feet along parallel grid lines cut four hundred feet apart.

A total of 214 humus samples were analyzed for copper and gold and the analytical results are contained in 6 maps which form part of this report.

The analyses were performed by X-Ray Assay Laboratories Limited of 1885 Leslie Street, Don Mills, Ontario. One hundred and sixty-six of the humus samples were analyzed by neutron activation (detection limit being one part per billion). Forty-eight of the samples contained insufficient organic material to permit application of the neutron activation analytical method, i.e., the 48 samples contained a high proportion of sand, and were analyzed by fire assay and neutron activation, (detection limit 5 parts per billion).

The background values for gold in the areas sampled appears to be in the range of 1 to 5 parts per billion. Two zones of gold mineralization are indicated by the survey.

On Mineral Claim 489747, in the area of the old adit, the author stripped humus and soil to bedrock in order to channel sample bedrock areas known to be auriferous. Eight humus samples were taken from the humus stripped from the trench areas, (see Gold in Humus Geochemical Plan of Claims 489747 and 490220). These eight humus samples were found to contain gold (in parts per billion) as follows: 4, 73, 2500, 1500, 85, 1600, 400, 300). Channel samples from the bedrock immediately underlying the humus sample sites gave gold values as high as 0.32 ounces per short ton. The geochemical survey indicates that this zone may extend north-easterly across Claim 489747 and part of Claim 489746, a distance of approximately 1500 feet.

A second north-easterly trending zone is indicated on Claim 489739. This area was sampled by bedrock trenching and channel sampling in 1943 and has been described as a quartz-carbonate shear zone not less than 800 feet long and varying in width from 10 to 30 feet. Gold values from the zone as reported in 1943 are 0.06 ounces per short ton over 30 feet including 0.1 ounces per short ton over 10 feet.

The gold values in humus from the two known auriferous zones are in marked contrast however this may be due in part to depth of overburden and the type of vegetation.

DISCUSSION OF THE RESULTS OF THE HUMUS GEOCHEMICAL PROGRAMME, (CONT'D)

The gold-bearing area on Claim 489747 is covered by 3 to 6 inches of organic-rich soil on average and the vegetation is 90 % malformed scrub oak. On Claim 489739, soil (locally derived) varies from 6 to 24 inches thick and the vegetation is 90 % immature balsam fir.

Several other single, isolated anomalous gold values were noted from the analytical results but there are no readily discernable trends. These single "anomalies" should be checked further but should be considered as "secondary" targets.

The 214 humus samples were analyzed by atomic absorption for copper content (in parts per million) and the values have all been plotted on three plans which form part of this report.

There are no obvious, extensive anomalously high copper zones evident in the sampled areas. In channel sampling on Claim 489747, it was noted that the acid tuffs carry minor (<0.5%) amounts of fine-grained, disseminated chalcopyrite. There appears to be some slightly higher copper content in humus in this auriferous zone than in adjacent areas.

RESULTS OF THE 1980 BEDROCK CHANNEL SAMPLING PROGRAMME

During September, October, and November, 1980, the author cut a total of 64 rock samples from bedrock on Claims 489747 and 490220. The assay results for gold and silver (fire assay) are all recorded in the table in this section of the report.

In October, 1979, the writer collected eight grab samples from outcrop above the old adit on Claim 489747. The assay results for gold in ounces per short ton were as follows; 0.44, 0.16, 0.02, 0.24, 0.04, 0.97, 0.98 and 0.55. The analyses were carried out by X-Ray Assay Laboratories Limited, 1885 Leslie Street, Don Mills, Ontario using the fire assay method with a detection limit of 0.001 ounces per short ton.

In November, 1980, X-Ray Assay Laboratories Limited assayed the 64 rock samples and reported generally low gold values even from the channel samples cut in the area of the 1979 grab sample sites. While it is acknowledged that the channel samples are likely to be somewhat more representative of the mineralized area than the grab samples, the author felt that there was some inconsistency in the widely dissimilar values reported in 1979 and 1980. Accordingly the 64 samples were analyzed by Barringer Magenta Limited, 304 Carlingview Drive, Rexdale, Ontario. Barringer used the same standard sample preparation and assay technique (fire assay) as did X-Ray.

The assay values reported by Barringer are recorded in the table in this section of the report. It will be noted that considerable differences exist in the X-Ray and Barringer assay results. In December, 1980, X-Ray assayed all 64 samples again by the same method and once again, in certain samples, the gold values reported vary widely from X-Ray's first report and from the Barringer report.

The three sets of assay results seem to indicate at the very least a certain inhomogenous distribution of gold in the area sampled. If this is indeed the case then it is obvious that an assayer must take greater care in preparing the aliquot for analysis. It is doubtful whether standard assay practice in North America is adequate in the specific area of aliquot preparation. The number of sub-samples which ultimately make up the aliquot is a critical factor in achieving a "true assay" and "conventional" assay practice frequently does not give adequate consideration to this factor. Aliquot by definition is "a representative fraction of the whole". The author feels that all too frequently, technicians who prepare samples for analyses do not understand this vital factor.

Twenty-four channel samples were cut in the adit on Claim 489747. Each channel was cut over a length of three feet consecutively in the west wall of the adit from the portal to the end of the adit, i.e., south to north, giving a total sampled length of seventy-two feet. The best assay

RESULTS OF THE 1980 BEDROCK CHANNEL SAMPLING PROGRAMME, (CONT'D)

section was the Barringer assay section from 57 feet to 63 feet which assayed 0.17 ounces gold per short ton over 6 feet.

Twenty-one consecutive channel samples were cut in a trench dug to bedrock, (Trench No. 1, see geology map of Claim 489747), above and parallel to the adit. The total trench length was 85 feet and 64.5 feet (south to north) was channel sampled. The sections which reported gold values of "economic" interest were in the section of the trench from 9.0 feet to 23.5 feet.

X-Ray (1) 0.098 ounces Au/short ton over 14.5 feet or
0.109 ounces Au/short ton over 12.0 feet

X-Ray (2) 0.106 ounces Au/short ton over 14.5 feet

Barringer 0.148 ounces Au/short ton over 6.0 feet

The section sampled in the adit from 49.5 feet to 72 feet underlies section 0 to 22.5 feet in Trench No. 1

Trench No. Two was dug 207 feet north-east of and parallel to Trench No. One. Five consecutive three foot channel samples were cut in Trench No. Two. (See table in this section of the report). The range of gold assays from Trench No. 2 are as follows;

X-Ray (1) 0.0478 ounces Au/short ton over 15 feet

X-Ray (2) 0.056 ounces Au/short ton over 15 feet

Barringer 0.06 ounces Au/short ton over 15 feet including
0.23 ounces Au/short ton over 3 feet.

Two grab samples were taken from bedrock in Trench No. 4 which was dug 91 feet south-westerly from and parallel to Trench No. 1. The samples assayed 0.02 oz. Au/ short ton and Trace respectively.

On Claim 490220 at Station 2 + 00E on the baseline, a quartz-carbonate vein 10-feet wide was exposed by trenching in overburden. Four consecutive 3 foot long channel samples were cut across the true width of the vein. No significant gold values were found in the samples. (See the table of assay results).

RESULTS OF THE 1980 BEDROCK CHANNEL SAMPLING PROGRAMME, (CONT'D)

On Claim 490220 at a point one hundred feet west of the No. 2 witness post of Claim 490220, an outcrop of pyritiferous fissile acid tuff was sampled by five consecutive three foot channel samples. No significant gold values were found in the samples.

X-Ray Laboratories assayed all 64 samples for silver and reported trace only in all samples.

TABLE OF CHANNEL SAMPLE ASSAY RESULTS

Au in oz./short ton
SAMPLE NO. DATE CUT FROM (ft.) TO (ft.) X-RAY (1) X-RAY(2) BM

N.B. Samples 1 to 24 (both inclusive) cut from west wall of adit.

1	17/10/80	0	3	T	T	ND
2	"	3	6	T	T	ND
3	"	6	9	T	T	ND
4	"	9	12	0.003	T	T
5	"	12	15	0.002	T	T
6	"	15	18	0.013	T	T
7	"	18	21	T	T	T
8	"	21	24	T	T	T
9	"	24	27	0.014	T	T
10	19/10/80	27	30	T	T	0.050
11	"	30	33	T	T	T
12	"	33	36	T	0.003	ND
13	"	36	39	0.003	0.009	0.008
14	"	39	42	0.001	T	T
15	"	42	45	0.018	0.021	0.018
16	"	45	48	0.006	0.001	T
17	"	48	51	0.011	T	0.006
18	20/10/80	51	54	0.002	T	T
19	"	54	57	0.011	0.004	0.008
*20	"	57	60	0.010	0.008	0.320
21	"	60	63	0.002	0.001	0.020
22	"	63	66	0.007	0.009	T
23	"	66	69	0.001	0.002	T
24	"	69	72	0.012	0.015	ND

N.B. Samples 25 to 45 (b.i.) cut from Trench #1, (south to north)

*25	3/10/80	0	3.0	0.110	0.007	ND
26	"	3.0	6.0	0.003	0.008	T
27	"	6.0	9.0	0.010	0.011	T
28	"	9.0	11.5	0.046	0.110	ND
29	"	11.5	14.5	0.133	0.140	T
30	5/10/80	14.5	17.5	0.120	0.085	ND
31	"	17.5	20.5	0.017	0.019	0.036
*32	"	20.5	23.5	0.164	0.180	0.260
33	"	23.5	26.5	0.012	0.013	ND
34	"	26.5	29.5	0.001	0.002	ND
35	6/10/80	29.5	32.5	T	T	ND
36	"	32.5	35.5	0.004	0.005	0.008
37	"	35.5	38.5	0.005	0.006	0.012
38	"	38.5	41.5	0.004	0.004	T
39	7&14/10/80	41.5	44.5	0.004	0.005	0.006
40	15/10/80	44.5	47.5	0.004	0.003	0.008
41	"	47.5	50.5	T	T	ND
42	"	50.5	53.5	T	T	ND
43	"	53.5	56.5	T	T	ND

TABLE OF CHANNEL SAMPLE ASSAY RESULTS, (CONT'D)

<u>SAMPLE NO.</u>	<u>DATE CUT</u>	<u>FROM(ft.)</u>	<u>TO(ft.)</u>	<u>X-RAY(1)</u>	<u>X-RAY(2)</u>	<u>BM</u>
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Trench #1, (cont'd).

44	15/10/80	56.5	59.5	0.001	T	ND
45	"	59.5	62.5	T	T	ND

N.B. Samples 46 to 50 (b.i.) cut from Trench #2 (north to south)

46	24/10/80	0.0	3.0	0.034	0.045	0.050
47	"	3.0	6.0	0.027	0.033	ND
48	"	6.0	9.0	0.010	0.011	0.018
*49	"	9.0	12.0	0.149	0.170	0.234
50	"	12.0	15.0	0.019	0.020	T

N.B. Samples 51 to 54 (b.i.) cut from qtz. carbonate vein on 490220

51	25/10/80	0.0	3.0	0.005	0.002	T
52	"	3.0	6.0	0.001	0.001	T
53	"	6.0	9.0	T	0.001	ND
54	"	9.0	12.0	T	T	ND

N.B. Samples 55 & 56 are grab samples from Trench #4

55	26/10/80	grab		0.002	0.002	ND
56	"	"		T	T	T
57	28/10/80	0.0	3.0	T	T	T
58	"	3.0	6.0	T	T	ND
59	"	6.0	9.0	0.001	T	T
60	"	9.0	12.0	T	T	ND
61	"	12.0	15.0	0.016	0.017	0.014
62	30/10/80	grab		0.022	0.010	T
63	1/11/80	grab		T	0.002	ND
64	1/11/80	grab		T	0.002	ND

NOTES

1. Samples 57 to 61 (both inclusive) are 5 consecutive 3 foot channel samples cut from a section of pyritiferous acid tuff outcrop approximately 100 feet west of the No. 2 witness post of Claim 490220, at the lake shore.
2. Sample No. 62 is a grab sample from a muck pile adjacent to an old trench on Claim 489739.
3. Samples 63 and 64 are grab samples of pyritiferous acid tuff taken at the lake shore on Claim 490220, grid reference approximately 7 + 30E and 6+00E, respectively.

TABLE OF CHANNEL SAMPLE ASSAY RESULTS. (CONT'D).NOTES. (cont'd).

4. X-Ray (1) are X-Ray Assay Laboratories assay results of November, 1980.
X-Ray (2) are X-Ray Assay Laboratories assay results of the same samples run in December, 1980
BM are the assay results of the same 64 samples run by Barringer Magenta in November, 1980.
5. The assay technique of X-Ray and Barringer are similar if not identical, i.e., fire assay.
6. X-Ray assayed all 64 samples for silver and reported Trace for each sample, detection limit is 0.1 oz./s.t.
7. X-Ray detection limit for gold is 0.001 oz. / short ton.
8. Barringer ND, i.e., not detected means less than 0.001 oz./s.t.
Barringer T, i.e., trace means less than 0.005 oz. /s.t.

CONCLUSIONS

Two auriferous zones are known to exist on the claim group. Additional work is warranted to fully examine the area of potential economic gold mineralization outlined on Claim 489747 in 1980, and on the area sampled in 1943, on Claim 489739.

Limited channel sampling of a north-easterly trending mass of sheared, thinly bedded acid tuffs on Claim 489747 indicates that the tuffaceous sequence contains a narrow (6 to 15 feet wide) zone of gold mineralization which may be of economic value.

The humus geochemical programme carried out on the property indicates that the auriferous zone in the area of the adit on Claim 489747 may extend north-easterly at least the length of Claim 489747 and beyond unto Claim 489745 and 489746.

Additional work consisting of line cutting, geophysical surveys (VLF-EM and magnetometer), stripping and channel sampling is required to confirm the potential for gold mineralization indicated by the humus geochemical survey.

The two known auriferous zones may, together, have sufficient potential grade and tonnage to permit a small mining operation.

RECOMMENDATIONS

The following work is recommended for Claim 489747 and the whole island on which is situated the common corner of Claims 489747, 489748, 489746 and 489745.

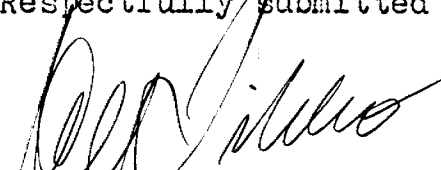
1. Five additional grid lines should be cut and chained thus establishing grid lines each 200 feet across the area of interest delineated in 1980.
2. A VLF-EM survey and a magnetometer survey should be carried out over the entire claim group. In the area of the 200 foot lines, readings should be recorded each 50 feet along the lines.
3. During the geophysical surveys, particular attention should be paid to areas on Claims 489739 and 489740 where apparently anomalous gold and copper values occur in humus samples.
4. Bedrock should be exposed and channel sampled each 100 feet along the strike of the anomalous zone outlined on Claim 489747.
5. Claims 489739 and 489740 should be mapped at a scale of one inch equals 100 feet.
6. The auriferous zone on Claim 489739 which was sampled in 1943, should be stripped and re-sampled.

Diamond drilling of the two zones may be warranted depending upon the results obtained from the work outlined above.

ESTIMATE OF COSTS

(1) Line cutting, 4000 feet	\$ 300.00
(2) Geophysical surveys, 5 line miles x \$400/line mile	2000.00
(3) Stripping, trenching and channel sampling 1 man x 20 days	1000.00
(4) Geological mapping, 1 geologist x 8 days	1200.00
(5) Assaying, estimate	1500.00
(6) Room & board, 30 man days x \$50/man day	1500.00
(7) Travel and equipment hire, (boat, motor and vehicle)	1200.00
(8) Draughting and report preparation	<u>1100.00</u>
Contingency @ 20%	<u>\$9300.00</u> <u>1860.00</u>
TOTAL	<u>\$11160.00</u>

Respectfully submitted



H. G. Fibbo

January 10, 1981

Toronto, Ontario

REFERENCES

Davies, J.C., 1965,

Geology of the High Lake-Rush Bay Area, District of Kenora. Ontario Department of Mines, Geological Report No. 41.

Davies, J.C., 1969,

Preliminary Geological Map P.528, North Shoal Lake Area (East Sheet), District of Kenora, Ontario Department of Mines.

Holbrooke, G.L., 1945

Report on Thrasher-Gauthier Property, Echo Bay, Lake of the Woods, Ontario Department of Mines Assessment File, Kenora.

Thomson, R., 1947

Note on Gauthier-Thrasher Property, Echo Bay, Lake of the Woods, Kenora Mining Division. Ontario Department of Mines Assessment File, 52E/10 NW L-1, Kenora.



GEOPHYSICAL - GEOL
TECHNICAL, D/



52E10NW9484 2.3687 ECHO BAY

TO BE ATTACHED AS AN APP
FACTS SHOWN HERE NEED
TECHNICAL REPORT MUST CONTAIN

900

Type of Survey(s) geochemical & geological
Township or Area Echo Bay area, Lake of the Woods
Claim Holder(s) H. G. Tibbo

Survey Company self, H.G. Tibbo
Author of Report self, H.G. Tibbo
Address of Author Apt. 1101, 322 Eglinton Ave. E., Toronto
Covering Dates of Survey Oct. 1, 1980 - Jan. 10, 1981
(linecutting to office)
Total Miles of Line Cut 4.2

MINING CLAIMS TRAVERSED
List numerically

K	489739
(prefix)	(number)
K	489740
K	489745
K	489746
K	489747
K	489748
K	490220

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical - Electromagnetic _____ - Magnetometer _____ - Radiometric _____ - Other _____
ENTER 20 days for each additional survey using same grid.	<input checked="" type="checkbox"/> Geological _____ <input checked="" type="checkbox"/> Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE Jan. 19/81 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 63.2676

Previous Surveys

File No.	Type	Date	Claim Holder
			<u>HD</u>

TOTAL CLAIMS 7

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____
Station interval _____ Line spacing _____
Profile scale _____
Contour interval _____

MAGNETIC

Instrument _____
Accuracy - Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.L.F. station)
Parameters measured _____

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken all of claims 489739, 489740 & 490220;
portions of 489745, 489746, 489747, 489748

Total Number of Samples 214

Type of Sample humus
(Nature of Material)

Average Sample Weight 2 lbs. wet.

Method of Collection grub hoe & hand

Soil Horizon Sampled humus (A-1)

Horizon Development poor

Sample Depth surface - 3 inches

Terrain rugged, uneven, many abrupt escarpments

Drainage Development poor

Estimated Range of Overburden Thickness 0-3 ft.

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____
humus was not sieved, it was compacted as a pellet or briquette.

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m. Cu
p. p. b. Au

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others Au

Field Analysis (n/a tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (n/a tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (214 tests)

Name of Laboratory X-Ray Assay Labs

Extraction Method _____

Analytical Method Neutron activation

Reagents Used _____

General _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____
(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____



BARRINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE ONTARIO
CANADA M9W 5G2
PHONE 416 675 3870
TELEX 06 989189

Harry G. Tibbo
Apt. 1101
322 Eglinton Ave. East (2 Copies)
Toronto, Ontario
M4P 1L6

Laboratory Report

DATE January 9, 1981

Harry G. Tibbo
R.E. Lett
REPORT NUMBER 80-982/G-613

T = < .005 oz/Ton
N.D. = Not Detected

SAMPLE NUMBER	Au Oz/Ton	Sample Number	Au Oz/Ton	Sample Number	Au Oz/Ton	Sample Number	Au Oz/Ton
1	N.D.	21	.02	41	N.D.	61	.014
2	N.D.	22	T	42	N.D.	62	T
3	N.D.	23	T	43	N.D.	63	N.D.
4	T	24	N.D.	44	N.D.	64	N.D.
5	T	25	N.D.	45	N.D.		
6	T	26	T	46	.05		
7	T	27	T	47	N.D.		
8	T	28	N.D.	48	.018		
9	T	29	T	49	.234		
10	0.050	30	N.D.	50	T		
11	T	31	.036	51	T		
12	N.D.	32	.260	52	T		
13	.008	33	N.D.	53	N.D.		
14	T	34	N.D.	54	N.D.		
15	.018	35	N.D.	55	N.D.		
16	T	36	.008	56	T		
17	.006	37	.012	57	T		
18	T	38	T	58	N.D.		
19	.008	39	.006	59	T		
20	.320	40	.008	60	N.D.		

SAMPLE	AU OZ/TON
1	TRACE
2	TRACE
3	TRACE
4	0.003
5	0.002
6	0.013
7	TRACE
8	TRACE
9	0.014
10	TRACE
11	TRACE
12	TRACE
13	0.003
14	0.001
15	0.018
16	0.006
17	0.011
18	0.002
19	0.011
20	0.010
21	0.002
22	0.007
23	0.001
24	0.012
25	0.011
26	0.003
27	0.010
28	0.046
29	0.133
30	0.120
31	0.017
32	0.164
33	0.012
34	0.001
35	TRACE
36	0.004
37	0.005
38	0.004
39	0.004
40	0.004
41	TRACE
42	TRACE
43	TRACE
44	0.001
45	TRACE
46	0.034
47	0.027
48	0.010
49	0.149
50	0.019
51	0.005
52	0.001
53	TRACE
54	TRACE
55	0.002

SAMPLE

AU OZ/TON

SAMPLE	AU OZ/TON
56	TRACE
57	TRACE
58	TRACE
59	0.001
60	TRACE
61	0.016
62	0.022
63	TRACE
64	TRACE

X-RAY ASSAY LABORATORIES LIMITED
1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4
PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: H.G. TIBBO,
APT., 1101, 322 EGLINTON AVE. E.,
TORONTO, ONTARIO.
M4P 1L6

REPORT 9142

REF. FILE 5679-T6

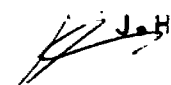
64 ROCKS SUBMITTED ON 7-NOV-80

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
AU	OZ/TON	FA	0.001

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY 

DATE 18-NOV-80

 J.H. OPDEBEECK

Y-RAY ABBAY LABORATORIES LIMITED
1700 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4
PHONE 416-447-5715 TELEY 06-286247

CERTIFICATE OF ANALYSIS

TO: E.A. TIBBO,
222 EGLINTON AVE. EAST, SUITE 1101, CUSTOMER NO. 308
TORONTO, ONTARIO.
43 110

DATE SUBMITTED 11-DEC-77

REPORT 1004E

REF. FILE 6037-08

64 BULBS

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
MU	CG/TON	FA	0.001
AG	CG/TON	FA	0.100

DATE 26-JAN-78

Y-RAY ABBAY LABORATORIES LIMITED
CERTIFIED BY *J. J. O'Sullivan*
J. J. O'SULLIVAN

01/01/70 10 00/70

1	TRACE	TRACE
2	TRACE	TRACE
3	TRACE	TRACE
4	TRACE	TRACE
5	TRACE	TRACE
6	TRACE	TRACE
7	TRACE	TRACE
8	TRACE	TRACE
9	TRACE	TRACE
10	TRACE	TRACE
11	TRACE	TRACE
12	0.008	TRACE
13	0.009	TRACE
14	TRACE	TRACE
15	0.001	TRACE
16	0.001	TRACE
17	TRACE	TRACE
18	TRACE	TRACE
19	0.004	TRACE
20	0.003	TRACE
21	0.001	TRACE
22	0.000	TRACE
23	0.000	TRACE
24	0.017	TRACE
25	0.007	TRACE
26	0.003	TRACE
27	0.011	TRACE
28	0.110	TRACE
29	0.140	TRACE
30	0.000	TRACE
31	0.018	TRACE
32	0.100	TRACE
33	0.013	TRACE
34	0.000	TRACE
35	TRACE	TRACE
36	0.008	TRACE
37	0.001	TRACE
38	0.004	TRACE
39	0.000	TRACE
40	0.000	TRACE
41	TRACE	TRACE
42	TRACE	TRACE
43	TRACE	TRACE
44	TRACE	TRACE
45	TRACE	TRACE
46	0.000	TRACE
47	0.000	TRACE
48	0.011	TRACE
49	0.170	TRACE
50	0.000	TRACE
51	0.000	TRACE
52	0.001	TRACE
53	0.001	TRACE
54	TRACE	TRACE
55	0.000	TRACE

X-RAY ASSAY LABORATORIES LIMITED
1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4
PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: H.G. TIBBO,
APT., 1101, 322 EGLINTON AVE. E.,
TORONTO, ONTARIO.
M4P 1L6

REPORT 9142

REF. FILE 5679-T6

64 ROCKS SUBMITTED ON 7-NOV-80

WERE ANALYSED AS FOLLOWS:

AU	UNITS OZ/TON	METHOD FA	DETECTION LIMIT 0.001
----	-----------------	--------------	--------------------------

DATE 18-NOV-80

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY
J.H. OPDEBEECK

SAMPLE AU OZ/TON

1	TRACE
2	TRACE
3	TRACE
4	0.003
5	0.002
6	0.013
7	TRACE
8	TRACE
9	0.014
10	TRACE
11	TRACE
12	TRACE
13	0.003
14	0.001
15	0.018
16	0.006
17	0.011
18	0.002
19	0.011
20	0.010
21	0.002
22	0.007
23	0.001
24	0.012
25	0.011
26	0.003
27	0.010
28	0.046
29	0.133
30	0.120
31	0.017
32	0.164
33	0.012
34	0.001
35	TRACE
36	0.004
37	0.005
38	0.004
39	0.004
40	0.004
41	TRACE
42	TRACE
43	TRACE
44	0.001
45	TRACE
46	0.034
47	0.027
48	0.010
49	0.149
50	0.019
51	0.005
52	0.001
53	TRACE
54	TRACE
55	0.002

X-RAY ASSAY LABORATORIES LIMITED

1905 LESLIE STREET, DON MILLS, ONTARIO M2B 3J4

PHONE 416-449-8785

TELEX 06-935247

CERTIFICATE OF ANALYSIS

TO: H. A. THRO,
372 EGLINTON AVE. EAST, APT 1101,
TORONTO, ONTARIO,
M4P 1L5

ACCOUNT 0217

REF. FILE 5630-38

214 HOURS SUBMITTED ON 7-NOV-80

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
03	PPD	VA	1.000
10	PPD	FA-MA	5.000
03	PPM	AA	1.000

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY *J.H. Proeberck*

J.H. PROEBERCK

DATE 12-01-80

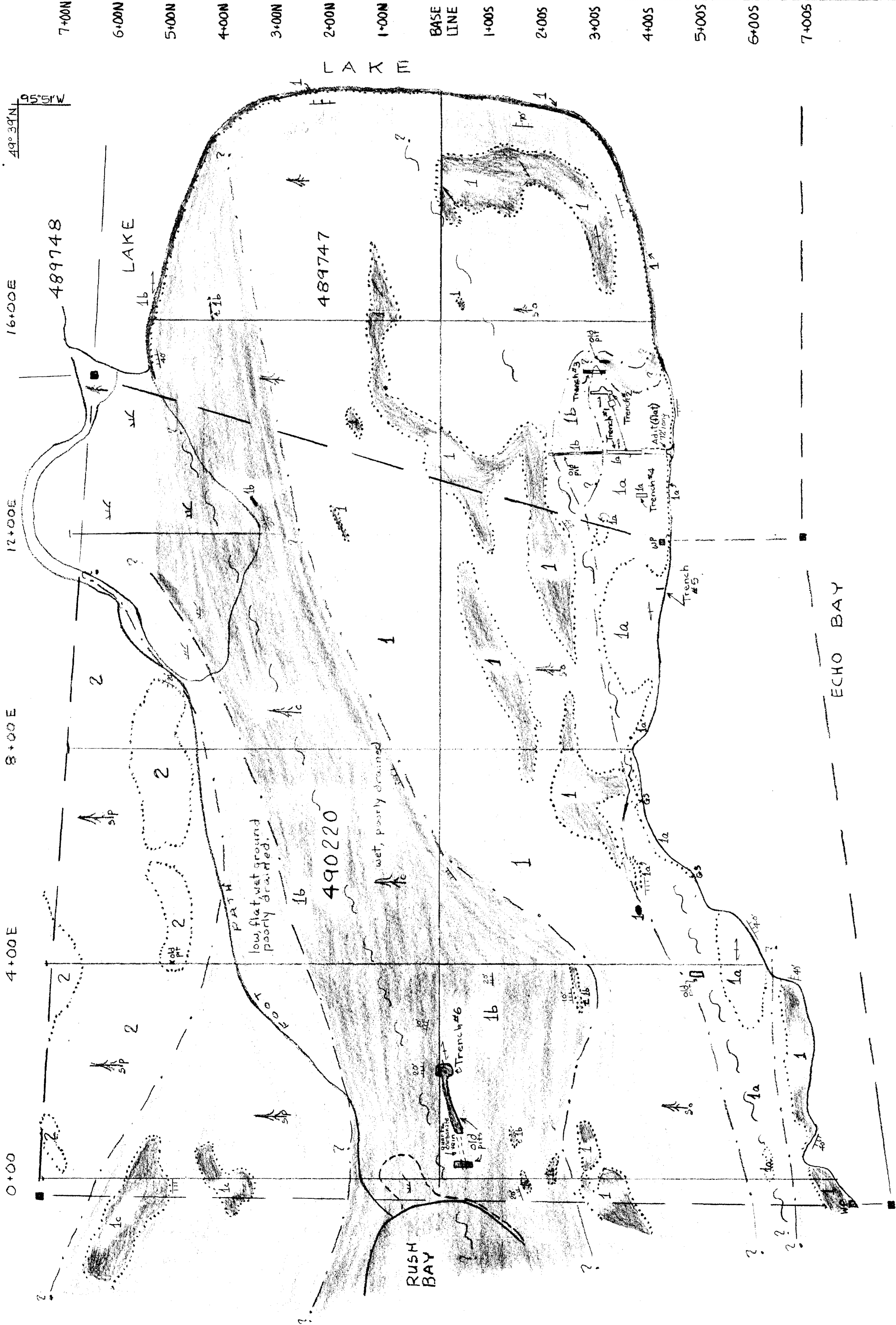
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3	<1	--	13
4	3	--	12
5	<1	--	15
6	2	--	8
7	3	--	14
8	5	--	12
9	5	--	31
10	3	--	75
11	2	--	11
12	--	7	43
13	--	6	23
14	2	--	20
15	--	<5	63
16	--	<5	4
17	4	--	93
18	6	--	32
19	--	<5	14
20	4	--	24
21	3	--	14
22	2	--	12
23	2	--	29
24	3	--	64
25	<1	--	5
26	--	<5	3
27	<1	--	180
28	--	6	9
29	<1	--	18
30	5	--	34
31	5	--	4
32	4	--	3
33	5	--	13
34	<1	--	3
35	--	7	9
36	5	--	2
37	<1	--	9
38	1	--	13
39	3	--	18
40	3	--	14
41	1	--	10
42	--	7	2
43	--	9	23
44	4	--	130
45	<1	--	28
46	--	7	3
47	2	--	5
48	<1	--	17
49	<1	--	20
50	--	8	11
51	--	20	13
52	1	--	23
53	5	--	52
54	1	--	23
55	1	--	210

SAMPLE	AU PPS	AU PPS	CU PPM
1	--	10	42
2	<1	--	12
3	<1	--	13
4	3	--	12
5	<1	--	15
6	2	--	8
7	3	--	14
8	5	--	12
9	5	--	31
10	3	--	75
11	2	--	11
12	--	7	43
13	--	6	23
14	2	--	20
15	--	<5	63
16	--	<5	4
17	4	--	93
18	6	--	32
19	--	<5	14
20	4	--	24
21	3	--	14
22	2	--	12
23	2	--	29
24	3	--	64
25	<1	--	5
26	--	<5	3
27	<1	--	180
28	--	6	9
29	<1	--	18
30	5	--	34
31	5	--	4
32	4	--	3
33	5	--	13
34	<1	--	3
35	--	7	9
36	5	--	2
37	<1	--	9
38	1	--	13
39	3	--	18
40	3	--	14
41	1	--	10
42	--	7	2
43	--	9	23
44	4	--	130
45	<1	--	28
46	--	7	3
47	2	--	5
48	<1	--	17
49	<1	--	20
50	--	8	11
51	--	20	13
52	1	--	23
53	5	--	52
54	1	--	23
55	1	--	210

SAMPLE	AU PPB	AU PPB	CU PPM
56	--	13	5
57	3	--	27
58	<1	--	39
59	3	--	18
60	<1	--	15
61	--	11	8
62	6	--	330
63	3	--	13
64	--	7	12
65	8	--	87
66	<1	--	52
67	1	--	18
68	4	--	9
69	--	7	3
70	--	12	6
71	--	10	7
72	19	--	26
73	40	--	10
74	3	--	8
75	2	--	10
76	2	--	6
77	4	--	13
78	7	--	5
79	2	--	14
80	--	9	7
81	3	--	32
82	--	12	32
83	3	--	21
84	--	9	6
85	1	--	15
86	2	--	18
87	--	<5	5
88	--	51	13
89	--	5	5
90	4	--	6
91	--	6	26
92	--	<5	42
93	2	--	29
94	3	--	22
95	5	--	52
96	5	--	73
97	--	6	40
98	--	5	26
99	5	--	62
100	2	--	13
101	3	--	19
102	32	--	32
103	<1	--	23
104	3	--	34
105	510	--	33
106	6	--	45
107	65	--	21
108	--	88	19
109	--	160	46
110	4	--	29
111	--	5	17

SAMPLE	AU PPB	AG PPB	CU PPM
112	--	<5	9
113	15	--	100
114	--	<5	4
115	110	--	38
116	--	39	77
117	33	--	18
118	4	--	16
119	22	--	25
120	<1	--	21
121	4	--	51
122	35	--	42
123	--	32	15
124	9	--	41
125	18	--	19
126	7	--	29
127	--	<5	15
128	--	34	16
129	--	<5	3
130	5	--	55
131	<1	--	14
132	--	15	31
134	--	<5	15
135	2	--	36
136	7	--	26
137	4	--	19
138	<1	--	30
139	4	--	22
140	2	--	12
141	<1	--	38
142	2	--	19
143	2	--	27
144	4	--	16
145	2	--	5
146	<1	--	6
147	<1	--	4
148	<1	--	18
149	4	--	15
150	4	--	21
151	5	--	38
152	--	<5	7
153	1	--	17
154	<1	--	13
155	<1	--	7
156	7	--	16
157	3	--	17
158	6	--	17
159	6	--	18
160	--	<5	7
161	3	--	42
162	<1	--	23
163	3	--	22
164	3	--	24
165	<1	--	6
166	9	--	39
167	3	--	21
168	<1	--	17

SAMPLE	AU PPB	AU PPB	CU PPM
169	<1	--	6
170	4	--	8
171	3	--	20
172	6	--	220
173	4	--	13
174	5	--	14
175	<1	--	16
176	6	--	18
177	--	<5	5
178	4	--	14
179	2	--	16
180	2	--	28
181	6	--	18
182	3	--	43
183	1	--	22
184	<1	--	21
185	3	--	25
186	1	--	5
187	<1	--	19
188	2	--	14
189	--	<5	26
190	4	--	16
191	5	--	43
192	2	--	47
193	4	--	38
195	1	--	23
196	28	--	28
197	2	--	36
198	6	--	30
199	5	--	45
200	3	--	50
201	8	--	36
202	1	--	14
203	2	--	15
204	7	--	29
205	3	--	13
206	3	--	17
207	54	--	83
208	--	340	110
209	4	--	26
210	73	--	20
211	--	2500	250
212	1500	--	100
213	1600	--	46
214	35	--	78
215	400	--	120
216	320	--	150

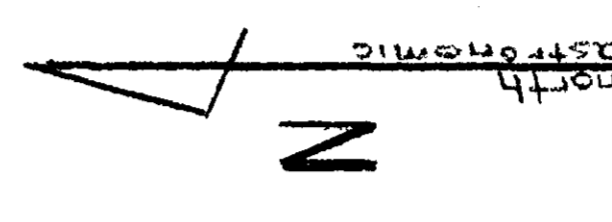


LEGEND

- Archean
- 2 Quartz diorite
- 4 Mafic to intermediate volcanics - altered andesite
- 1a highly altered, fissile acid tuffs w/ 1-5% pyrite
- 1b fissile chloritic tuff, <1% pyrite
- 1c brown, feldspathic schist probably 1b altered by quartz diorite

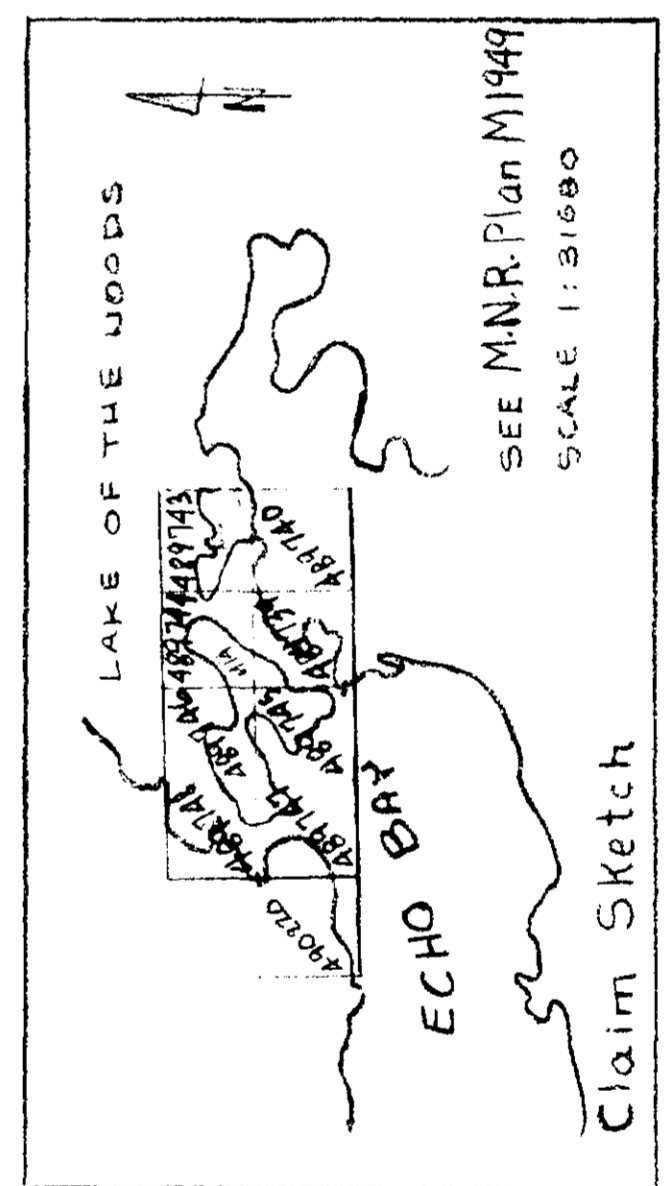
SYMBOLS

- Area of rock outcrop observed
- Area of minor outcrop (too small to map)
- Shear zone, inferred
- Geological contact, inferred
- Foliation, strike; dip vertical
- Cliff, vertical drop
- Site of Grab Sample
- Swamp
- Forest-covered area; cedar, scrub oaks, poplar etc.
- Claim post, W.P., witness post
- Claim number



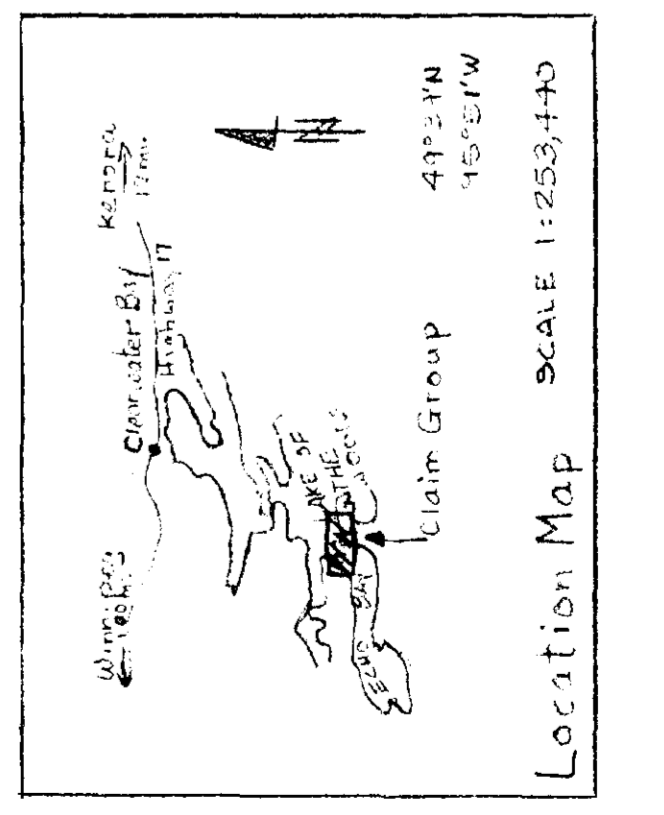
magnetic declination 1980
7°11'E, decreasing 4-5' annually
NTS reference 52E/10

2.3687
Echo Bay



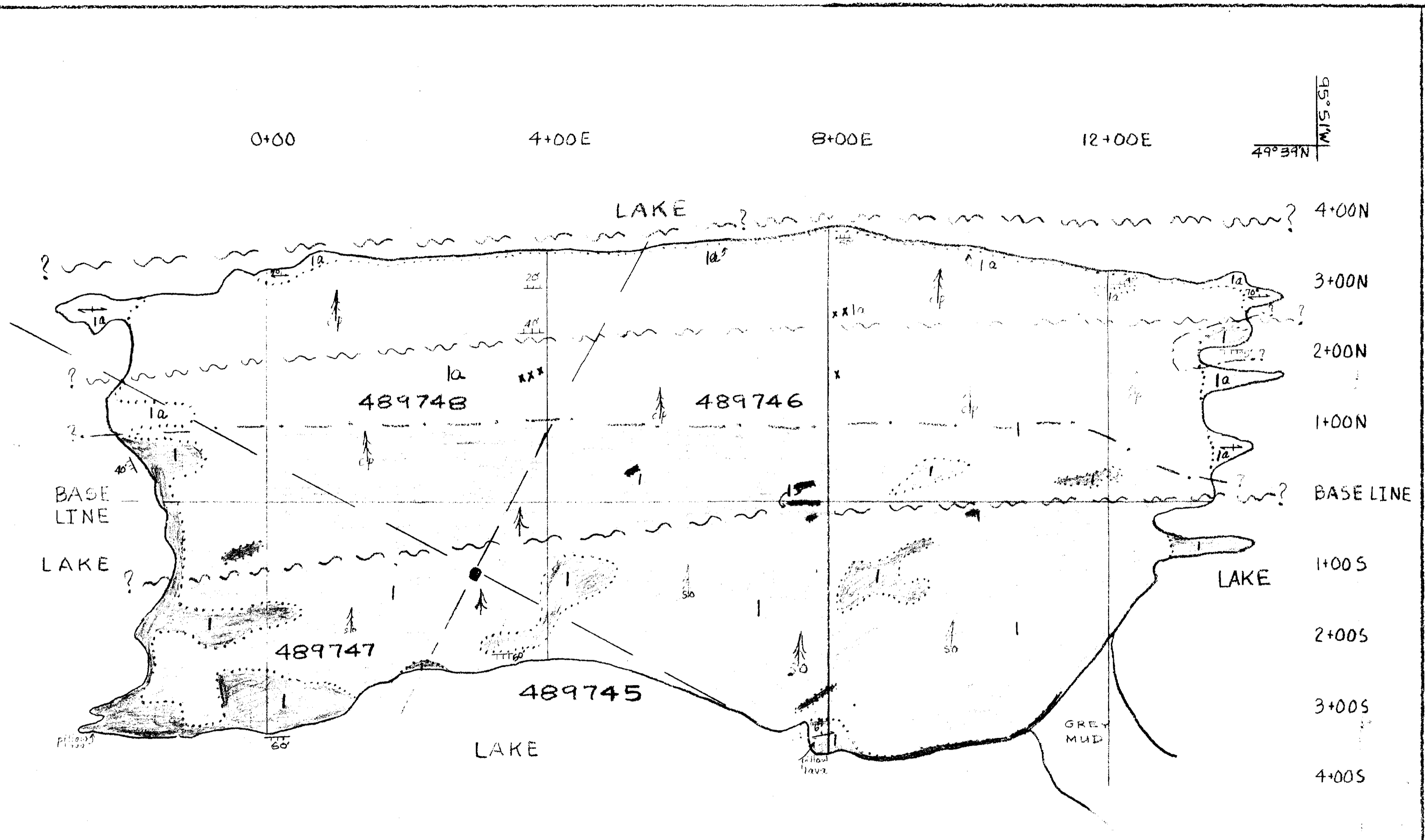
NOTES

1. The geological mapping was carried out by H.G. Tibbo during the period Oct. 18/80 to Nov. 2/80.
2. H.G. Tibbo owns 100% undivided interest in the group of 9 contiguous claim numbers 489734-489742, 489743-489748 + 490220.
3. Mapping was done along grid lines cut each 400 feet (and picked each 100 feet). Traverses of areas between grid lines were controlled by pace and compass.



GEOLOGICAL MAP
OF PARTS OF
MINERAL CLAIMS 489747 & 490220
ECHO BAY AREA, LAKE OF THE WOODS
KENDRA MINING DISTRICT, ONTARIO
BY
H.G. TIBBO
OCTOBER, 1980 SCALE 1:1200





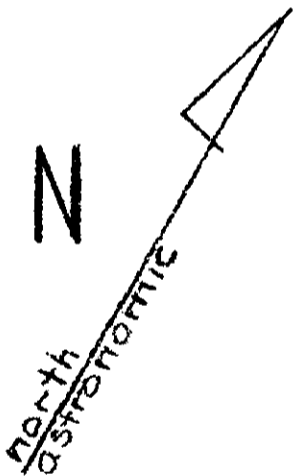
LEGEND

Archean

- massive andesite
- 1a fissile, sheared mafic tuff w/ 1-2% pyrite.

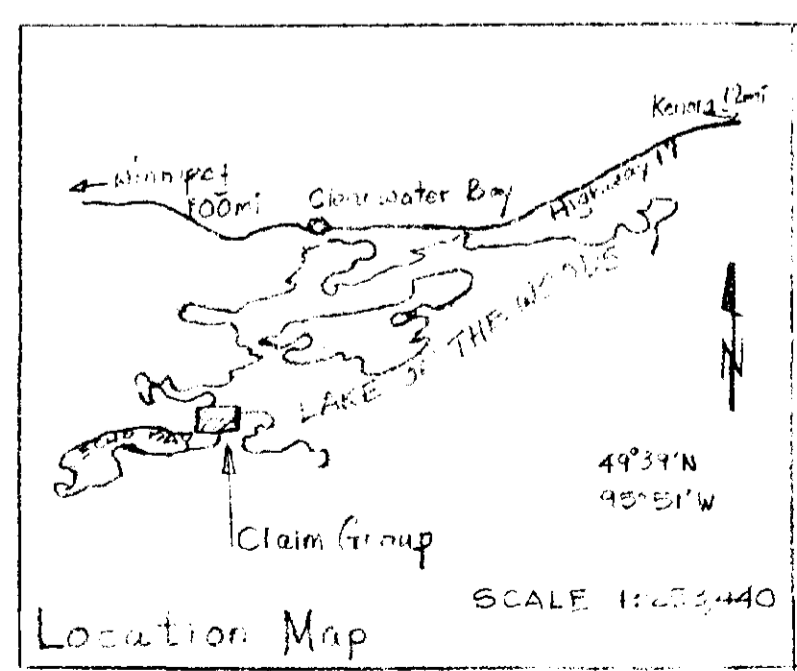
SYMBOLS

- Area of rock outcrop observed
- Area of minor outcrop too small to map
- Shear zone, inferred
- Geological contact, inferred
- Foliation, strike; dip vertical
- Cliff, vertical drop
- Forest-covered area; cedar, poplar, scrub oak
- Claim post; W.P. witness post
- Claim number

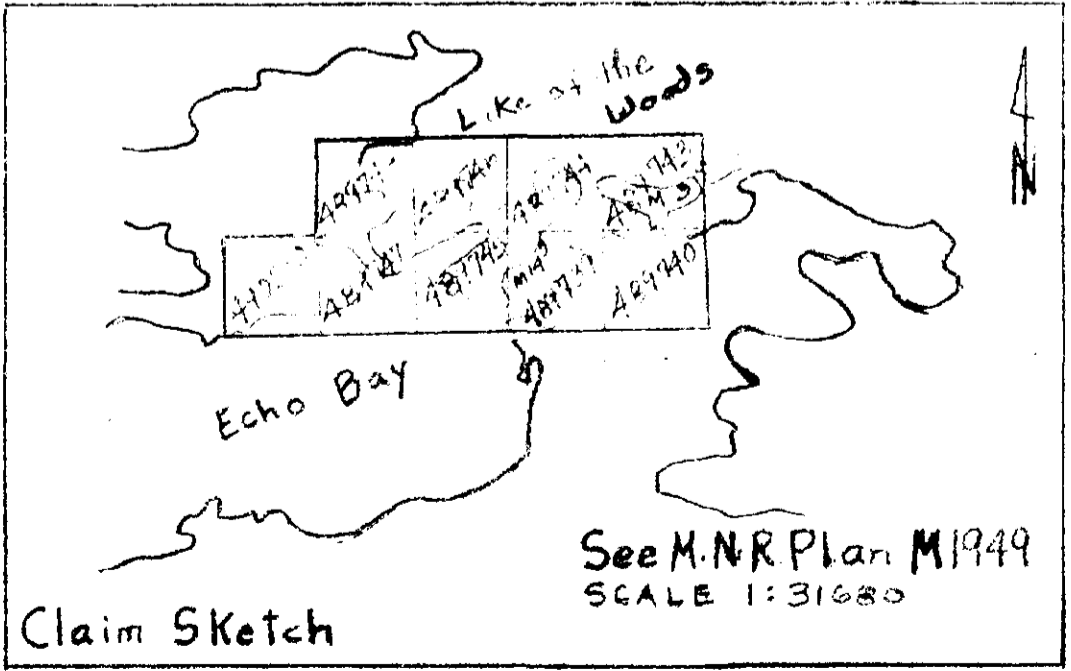


magnetic declination 1980
7° 41' E, decreasing 4.5' annually
NTS reference 52E/10

23687
Echo Bay



- NOTES**
1. The geological mapping was carried out by H.G. Tibbo during the period Oct. 18/80 to Nov. 2/80.
 2. H.G. Tibbo owns 100% undivided interest in the group of 9 contiguous claims numbered 489739-489740, 489743-489748, 490220.
 3. Mapping was done along grid lines cut each 400 feet (and picketed each 100 feet). Traverses of areas between grid lines were controlled by pace and compass.



GEOLOGICAL MAP
OF PARTS OF
MINERAL CLAIMS 489745, 489746,
489747 AND 489748
ECHO BAY AREA, LAKE OF THE WOODS
KENORA MINING DISTRICT, ONTARIO
BY
H.G. TIBBO
OCTOBER, 1980

SCALE 1:1200

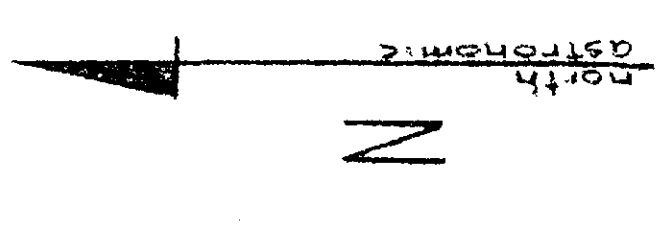
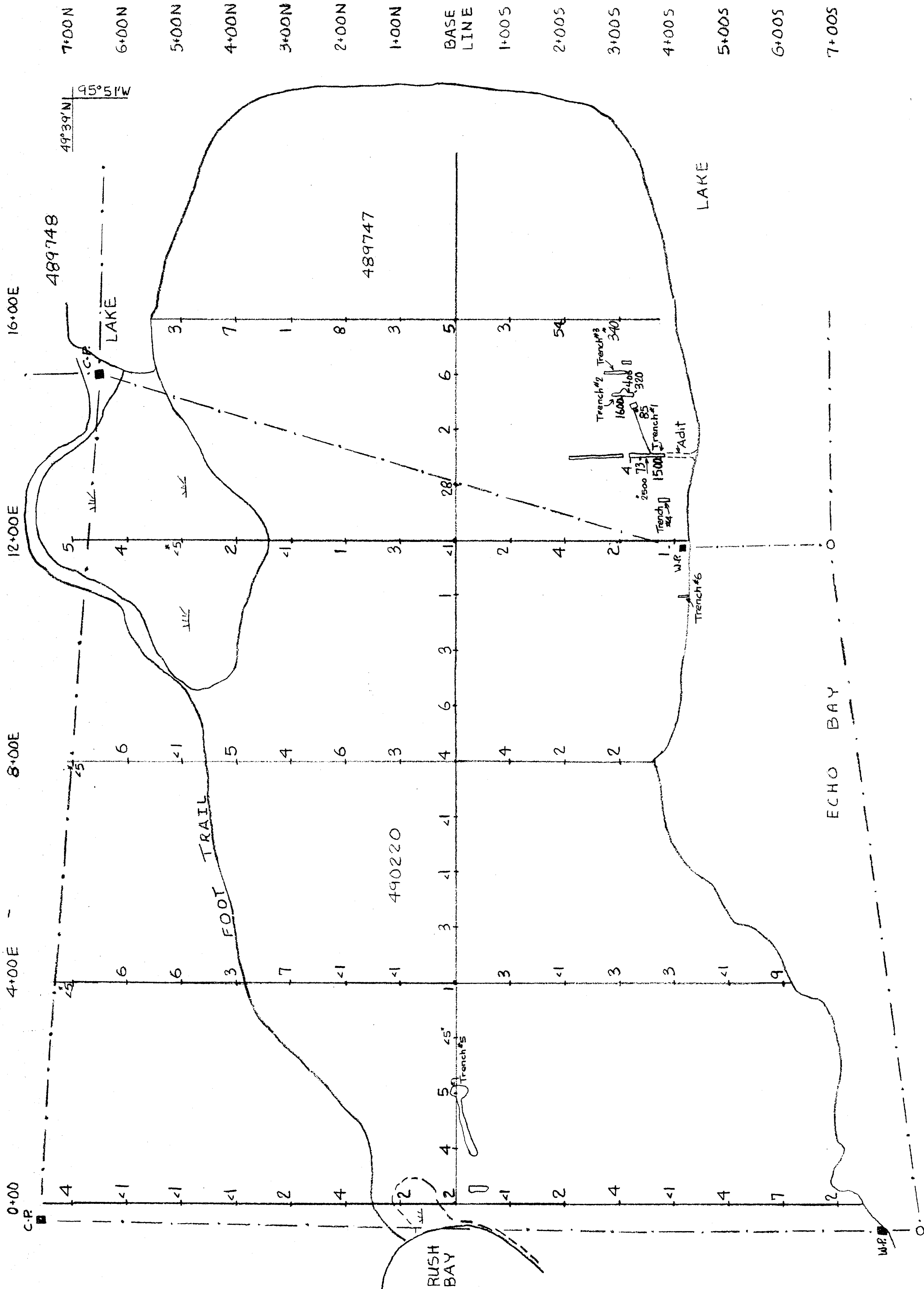
H.G. Tibbo



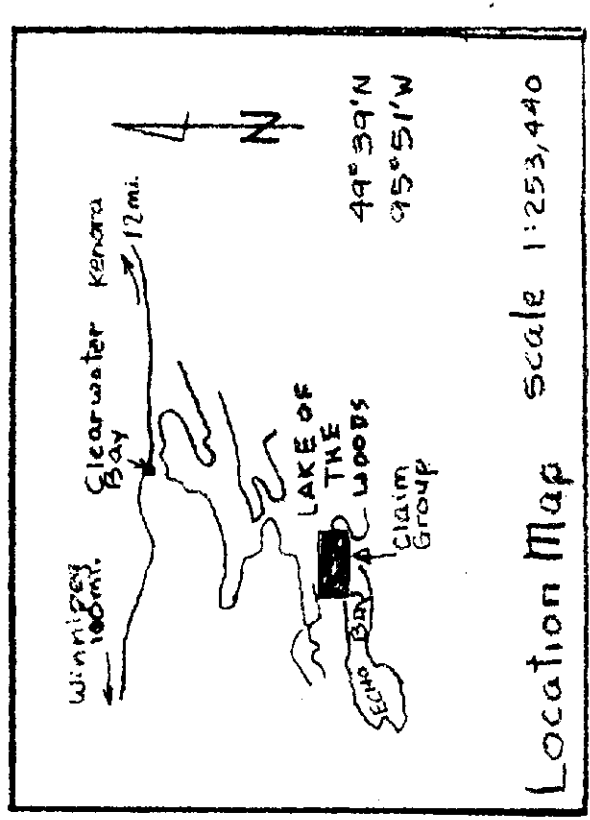
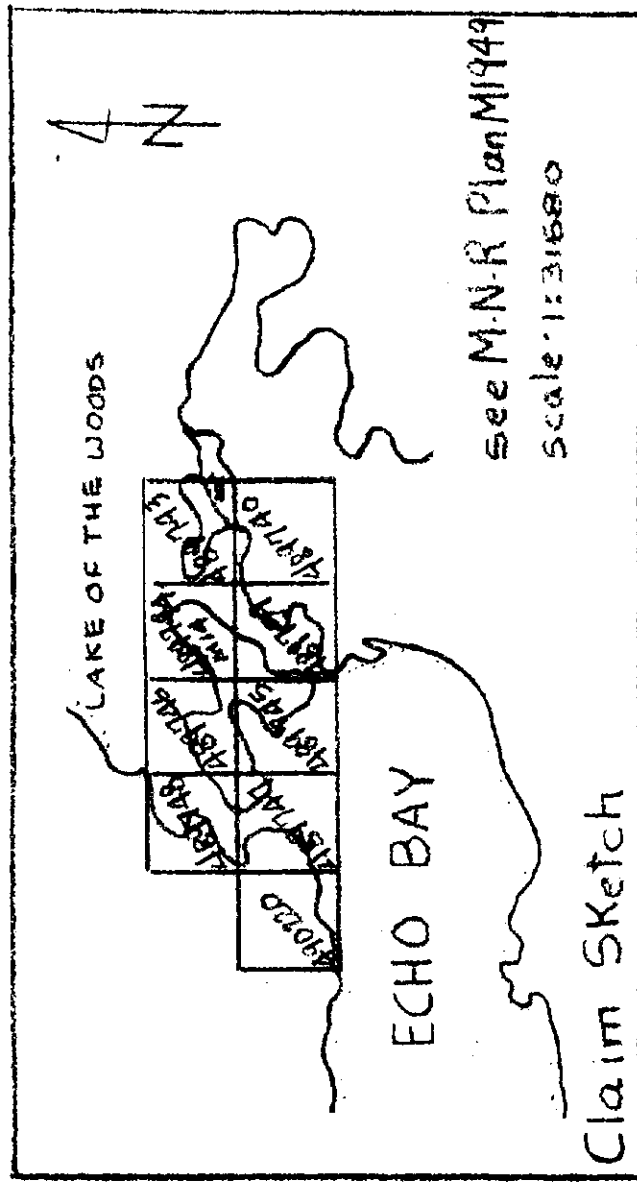
- S Y M B O L S**
- 54 Gold content of humus in parts per billion
 - Claim post (CP), witness post (WP), claim lines
 - Claim number
 - Flat, wet, poorly drained area
 - Gold content of soil in parts per billion

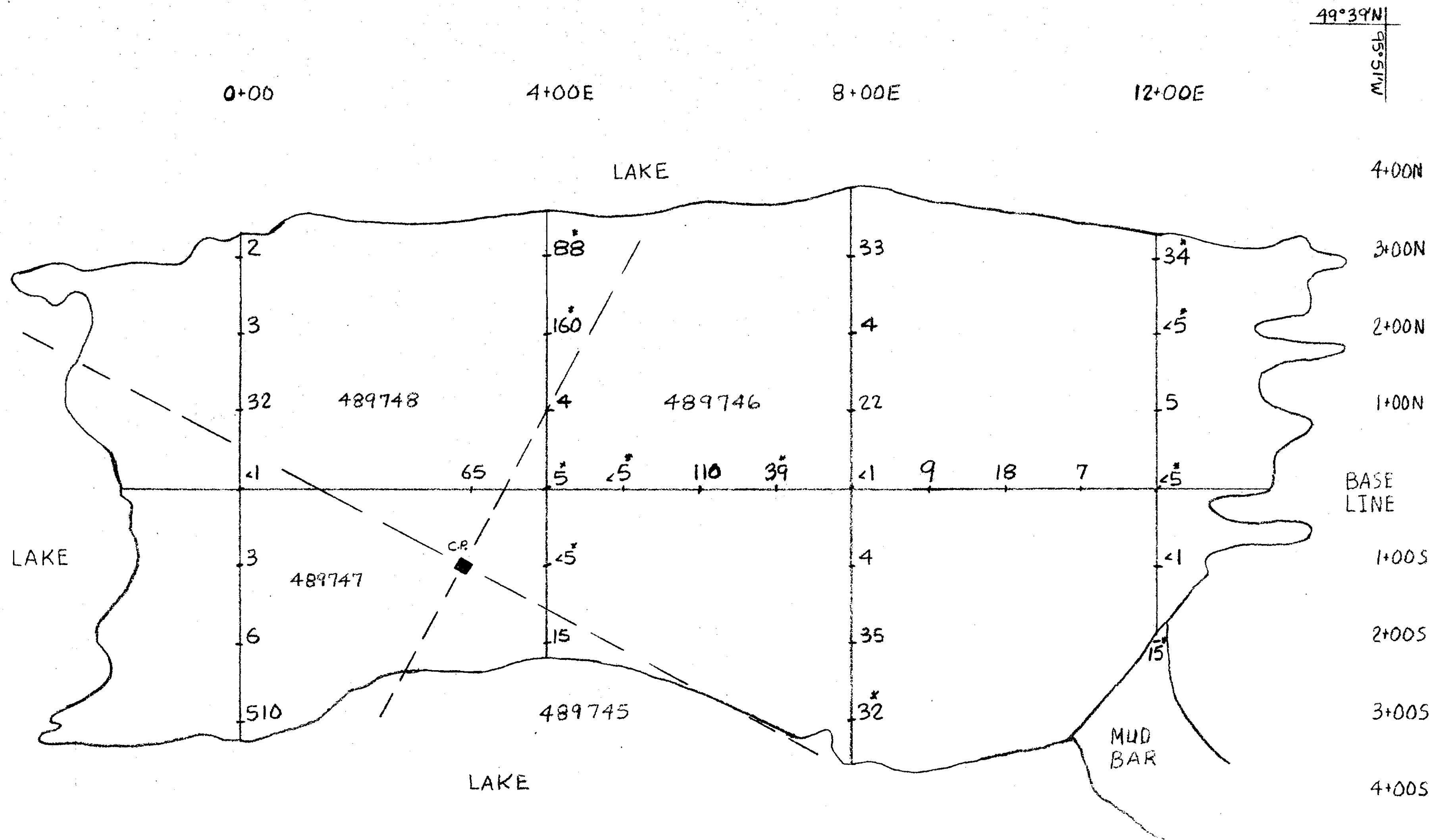
NOTES

1. Samples of humus (or soil, where humus unavailable) were collected by H.G. Tibbo during the 4 day period Oct. 7th to Oct. 10th, 1980.
2. Each of the 214 samples collected was put in a standard Kraft bag. Samples were dried, prepared for analyses and analyzed by X-Ray Assay Laboratories, 1885 Leslie St., Don Mills, Ont.
3. 166 humus samples were analyzed for gold by neutron activation.
4. Soil cover is variable from nil to 2ft, except in flat, low-lying, poorly drained areas where unknown thicknesses of gray clay have developed. The soil is poorly developed and was probably derived locally.
5. Vegetation consists of malformed scrub oak in areas underlain by siliceous tuffs, and mature cedar, poplar and fir in areas underlain by more basic rocks.
6. 48 soil samples were analyzed for gold by fire assay and direct current plasma. Detection limit 5 ppb. Detection on limit by NA method is 1 ppb with 10 day irradiation period.
7. H.G. Tibbo holds 100% interest in the 9 claim group.



G O L D
SOIL GEOCHEMISTRY PLAN
 OF PARTS OF
 MINERAL CLAIMS 489747 & 490220
 ECHO BAY AREA, LAKE OF THE WOODS,
 KENORA MINING DISTRICT, ONTARIO
 BY
 H.G. TIBBO
 OCTOBER, 1980 SCALE 1:1200





49°39'N
95°51'W

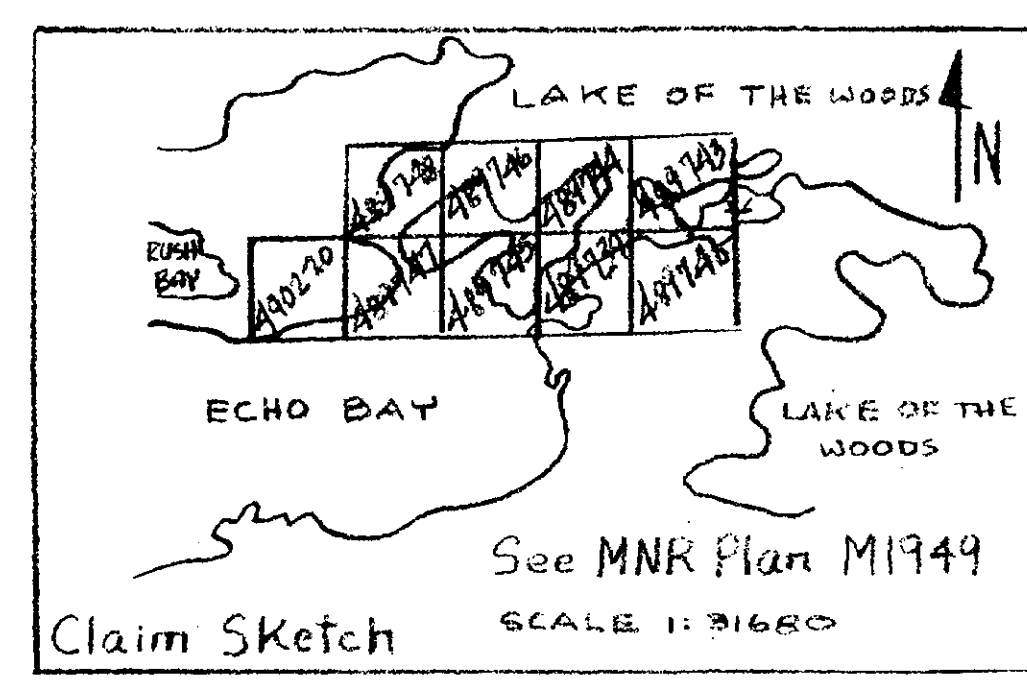
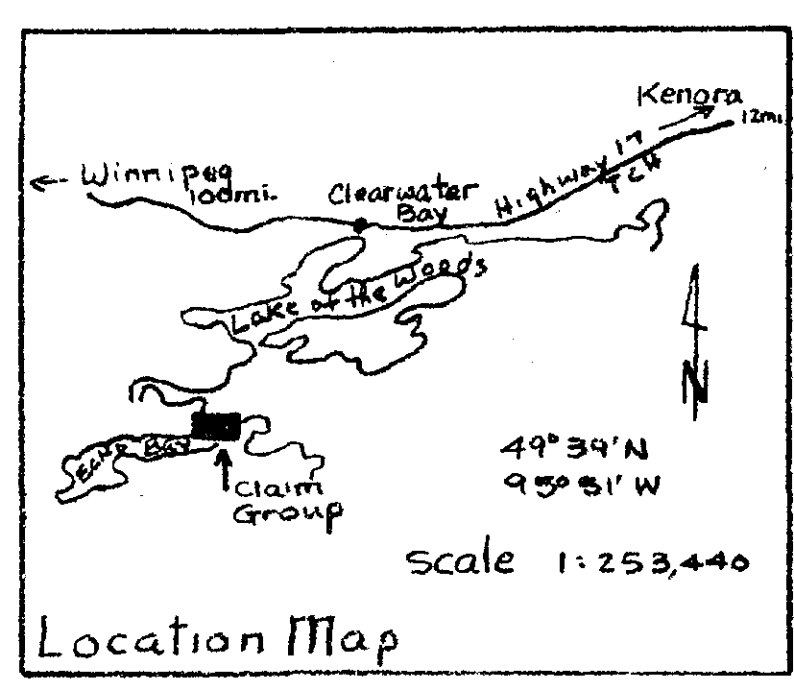
N
magnetic declination
1980, 7°41'E decreasing 4.5'
annually.
NTS reference 52E/10

SYMBOLS

- 25 Gold content of humus in parts per billion.
- CP Claim post & claim lines
- 48974 Claim number
- 34 Gold content of sandy soil in parts per billion.

NOTES

1. Samples of humus (or soil, where humus unavailable) were collected by H.G. Tibbo during the 4 day period Oct. 7th to Oct. 10, 1980.
2. Each of the 214 samples collected was put in a standard Kraft bag. Samples were dried, prepared for analyses and analyzed by X-Ray Assay Laboratories Ltd., 1885 Leslie St., Don Mills, Ont. Detection limit by NA method is 1 ppb.
3. 166 humus samples were analyzed for gold by neutron activation. Irradiation period 10 days.
4. Soil cover is variable from nil to 2ft. except in flat, low-lying, poorly drained areas where unknown thicknesses of gray clay have developed.
5. Vegetation consists of malformed scrub oak in areas underlain by siliceous tuffs, and mature cedar, poplar and fir in areas underlain by more basic rocks.
6. 48 soil samples were analyzed for gold by fire assay and direct current plasma. Detection limit 5 ppb.
7. H.G. Tibbo holds 100% interest in the 9 claim group.



**GOLD
SOIL GEOCHEMISTRY PLAN
OF PARTS OF
MINERAL CLAIMS 489745, 489746,
489747 + 489748
ECHO BAY AREA, LAKE OF THE WOODS
KENORA MINING DISTRICT, ONTARIO
BY
H.G. TIBBO *H.G. Tibbo*
OCTOBER, 1980 SCALE 1:1200**

100 0 100 200 300



SYMBOLS

- 28 Gold content of humus in parts per billion
- P Claim post (C-P), witness post (W-P), claim lines
- # Claim number
- W Wet, poorly drained area.
- G Gold content of soil in parts per billion

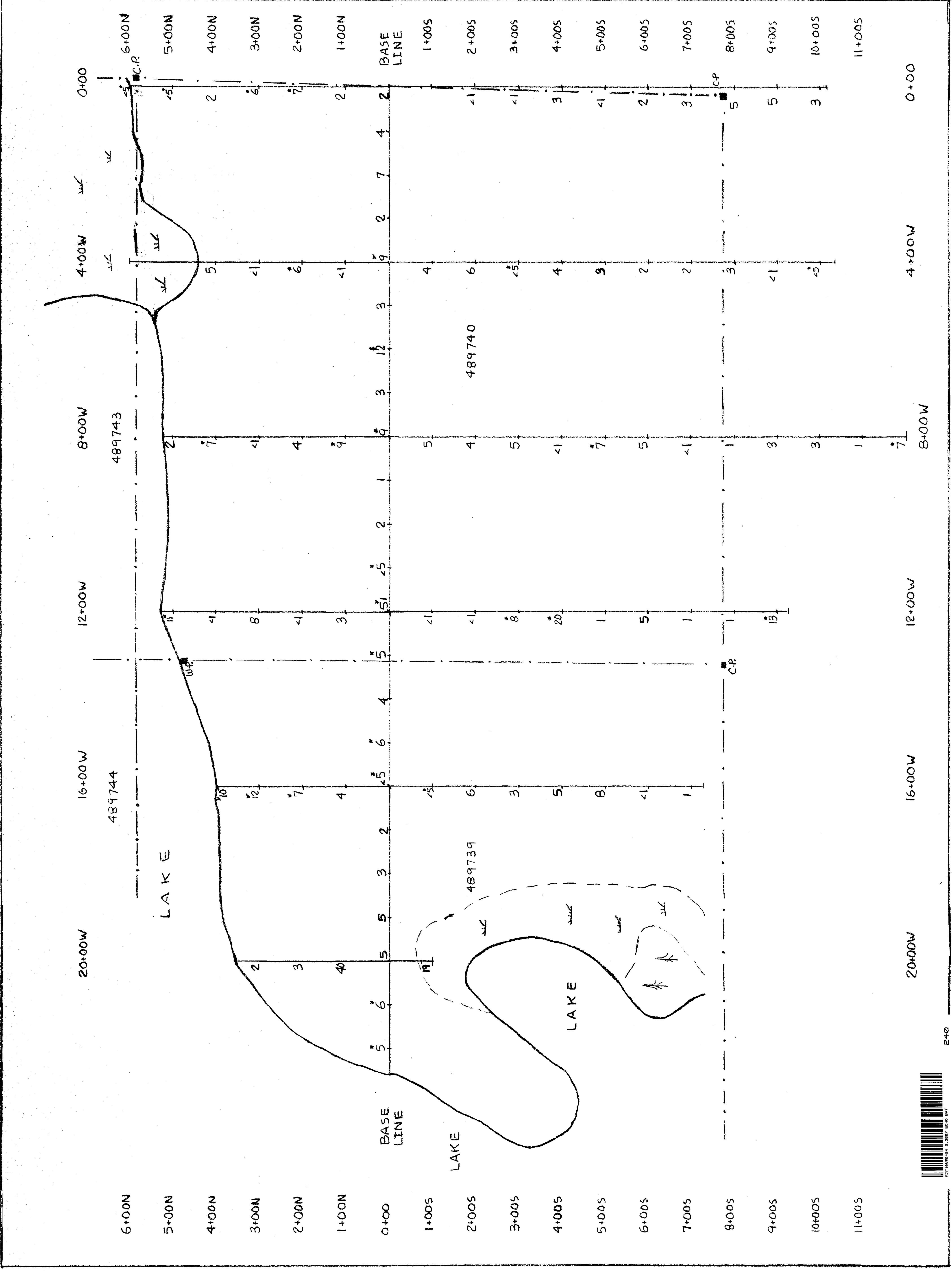
NOTES

1. Samples of humus (or soil where humus unavailable) were collected by H.G. Tibbo during the 4 day period Oct. 7th to Oct. 10th, 1980.
2. Each of the 214 samples collected was put in a standard kraft bag. Samples were dried, prepared for analysis and analyzed by XRF. Assay Laboratories Ltd., 1885 Leslie St., Don Mills, Ont.
3. 166 humus samples were analyzed for gold by neutron activation. Irradiation time 10 days.
4. Soil cover is variable from nil to 2 ft. except in flat low-lying areas where unknown thicknesses of grey clay have developed. The soil is poorly developed and was probably locally derived.
5. Vegetation consists of mal-forned scrub oak in areas underlain by siliceous tufts and fir mature cedar, poplar and bir in areas underlain by more basic rocks.
6. 48 soil samples were analyzed for gold by fire assay and direct current plasma. Detection limit 5 ppb. Detection limit for NA method is 1 ppb.
7. H.G. Tibbo holds 100% interest in the G claim group.

Location Map

Claim Sketch

Magnetic declination 1980, 74.1°E decreasing 4.5' annually
NTS reference 52 E/10



GOLD
SOIL GEOCHEMISTRY PLAN
OF
MINERAL CLAIMS 489739-489740
ECHO BAY AREA, LAKE OF THE WOODS,
KENORA MINING DISTRICT, ONTARIO

BY
H.G. Tibbo
H. G. TIBBO

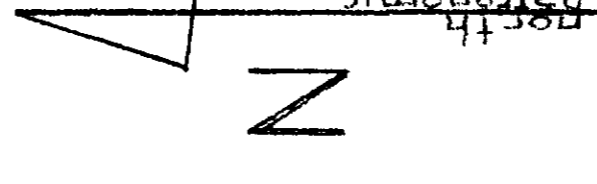
OCTOBER, 1980 SCALE 1:1200



- S Y M B O L S**
- 110 Copper in parts per million
 - CP Claim post (witness post (W.P.)); claim lines.
 - Claim number
 - Flat, wet, poorly drained area.

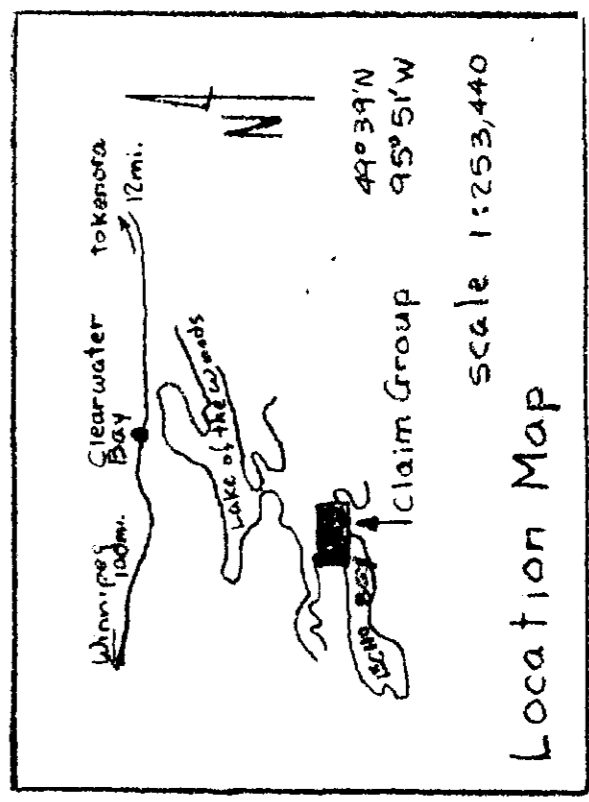
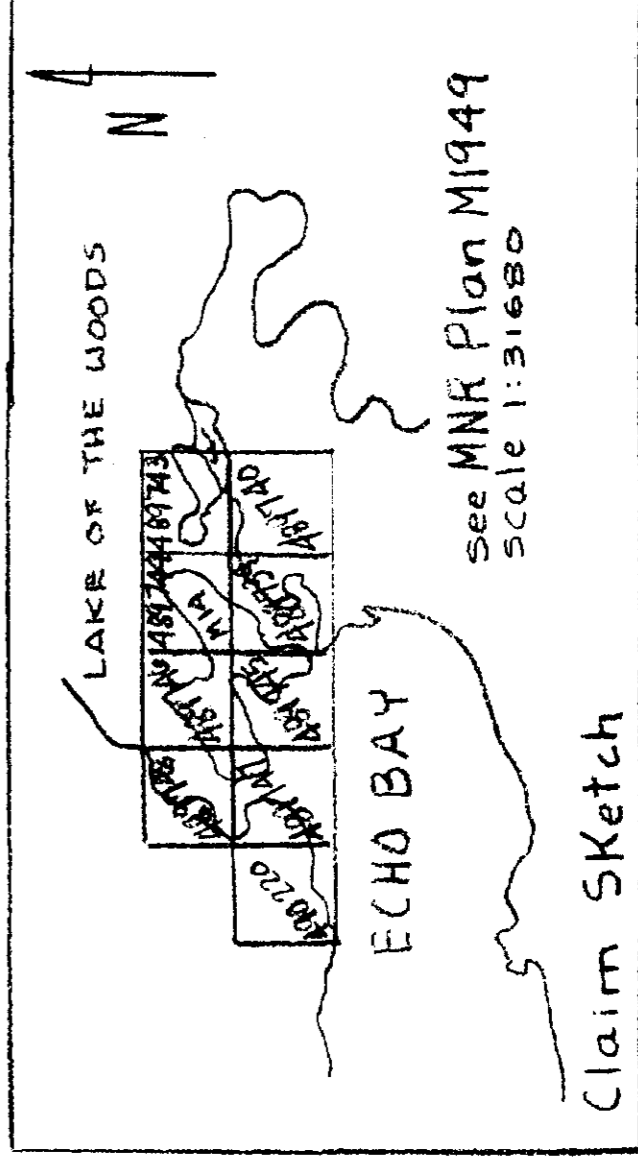
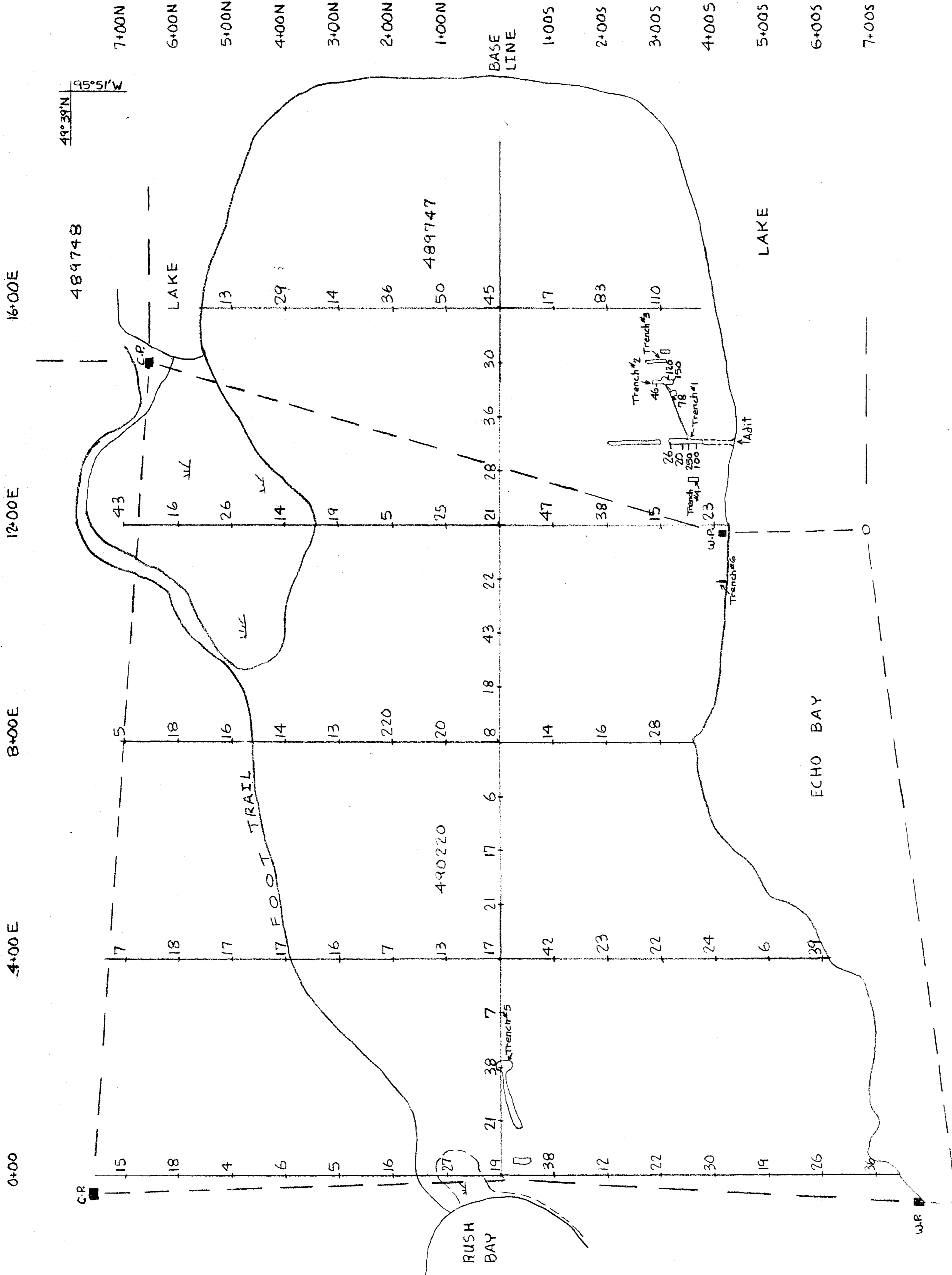
NOTES

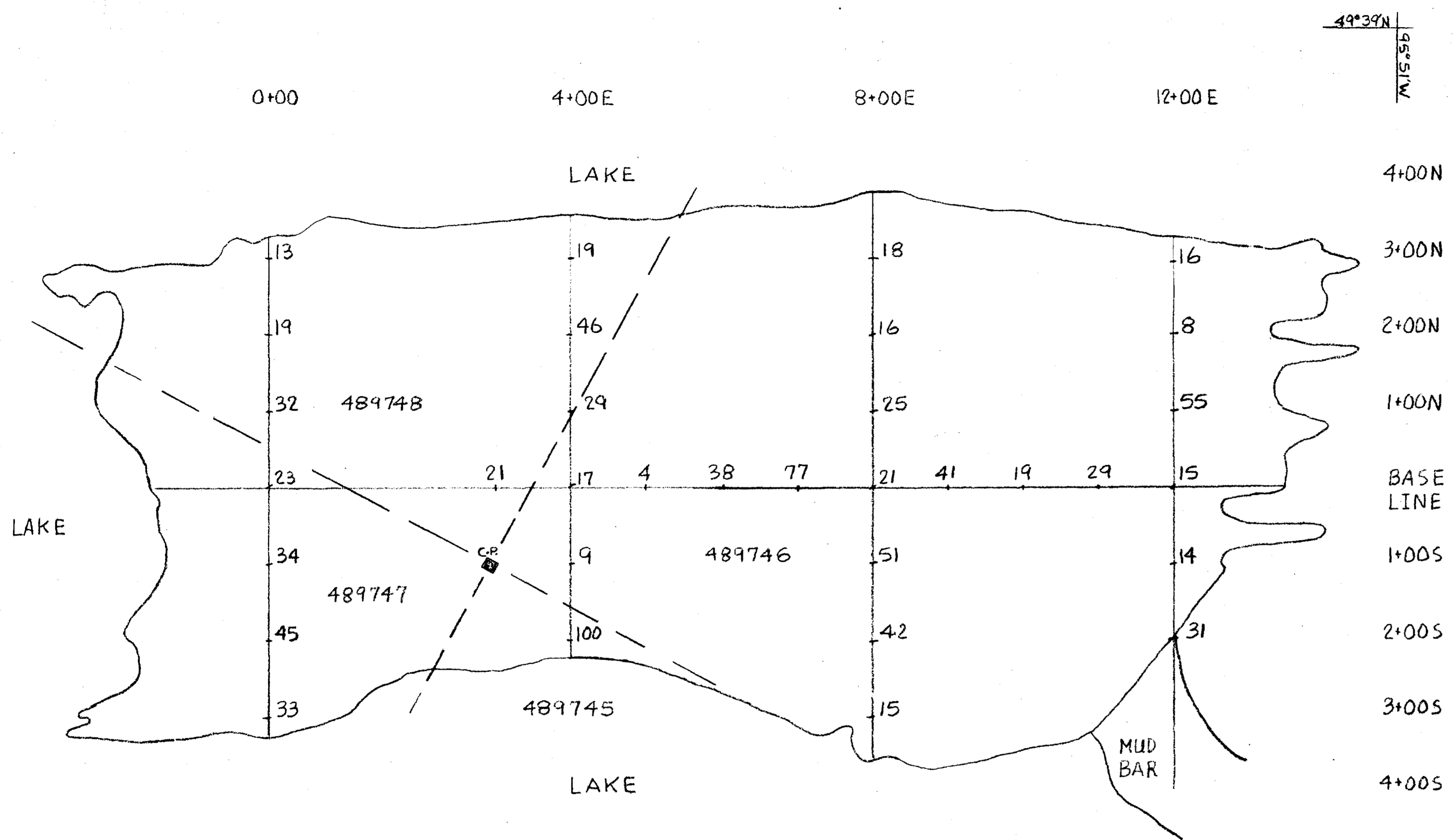
1. Samples of humus (or soil, where humus unavailable) were collected by H.G. Tibbo during the 4 day period Oct 7th to Oct 10th, 1980.
2. Each of the 24 samples collected was put in a standard Kraft bag. Samples were dried, prepared for analyses and analyzed by X-Ray Assay Laboratories Ltd., 1885 Leslie St., Don Mills, Ont.
3. Analytical method for copper was atomic absorption.
4. Soil cover is variable from nil to 2ft except in flat, low-lying, poorly drained areas where unknown thicknesses of grey clay have developed. The soil is poorly developed and was probably locally derived.
5. Vegetation consists of malformed scrub oak in areas underlain by siliceous tuffs and mature cedar, poplar and fir in areas underlain by more basic rocks.



magnetic declination 1980
7°41'E, decreasing 4.5' annually
NTS reference 52E/10

COPPER
SOIL GEOCHEMISTRY PLAN
OF PARTS OF
MINERAL CLAIMS 489747 & 490220
ECHO BAY AREA, LAKE OF THE WOODS,
KENORA MINING DISTRICT, ONTARIO
BY
H.G. TIBBO
OCTOBER, 1980 SCALE 1:1200





49°39'N
M.15.55

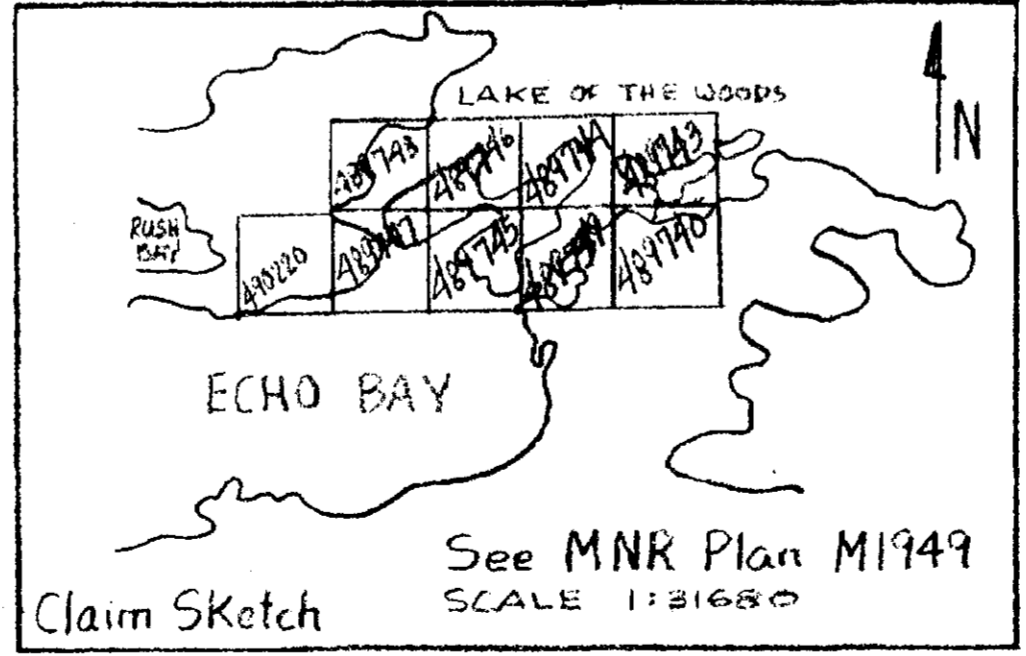
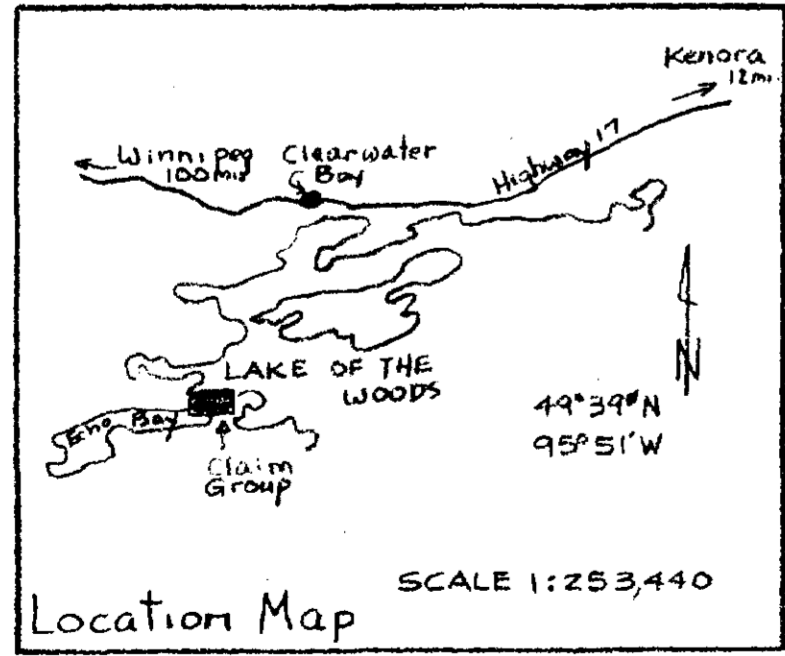
N
North
ASTRONOMIC
magnetic declination
1980, 7°41'E decreasing 4.5'
annually.
NTS reference 52E/10

SYMBOLS

- 25 Copper, in parts per million
- ICP Claim post + claim lines
- 489747 Claim number

NOTES

1. Samples of humus (or soil, where humus unavailable) were collected by H.G. Tibbo during the 4-day period, Oct. 7th to Oct. 10, 1980.
2. Each of the 214 samples collected was put in a standard Kraft bag. Samples were dried, prepared for analysis and analyzed by X-Ray Assay Laboratories Ltd, 1885 Leslie Street, Don Mills, Ont.
3. Analytical method for copper was atomic absorption.
4. Soil cover is variable from nil to 2ft. except in flat, low-lying, poorly drained areas where unknown thicknesses of grey clay have developed. The soil is poorly developed and is probably locally derived.
5. Vegetation consists of malformed scrub oak in areas underlain by siliceous tuffs and mature cedar, poplar and fir in areas underlain by more basic rocks.



COPPER
SOIL GEOCHEMISTRY PLAN
OF PARTS OF
MINERAL CLAIMS 489745, 489746,
489747 & 489748
ECHO BAY AREA, LAKE OF THE WOODS,
KENORA MINING DISTRICT, ONTARIO
BY
H.G. TIBBO
OCTOBER, 1980
SCALE 1:1200

100 0 100 200 300



52E18W9484 2.3687 ECHO BAY

49° 51' N
3° 55' W

6+00N 5+00N 4+00N 3+00N 2+00N 1+00N 0+00 BASE LINE 1+00S 2+00S 3+00S 4+00S 5+00S 6+00S 7+00S 8+00S 9+00S 10+00S 11+00S

20+00W 16+00W 12+00W 8+00W 4+00W 0+00

489744 489743

489740

LAKE

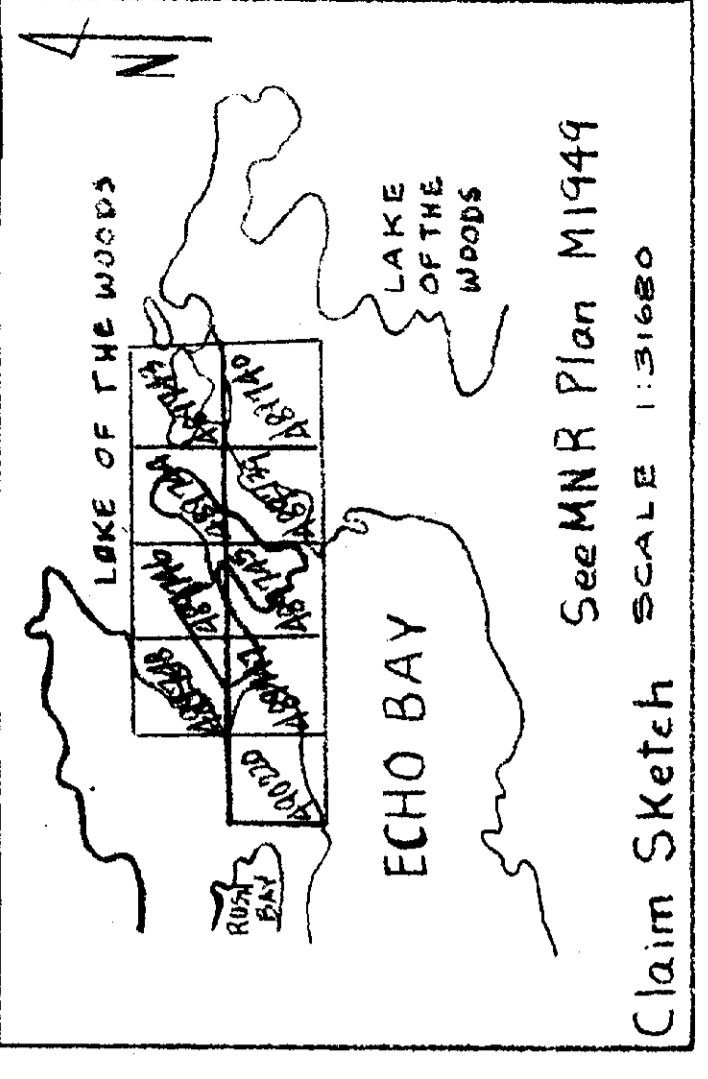
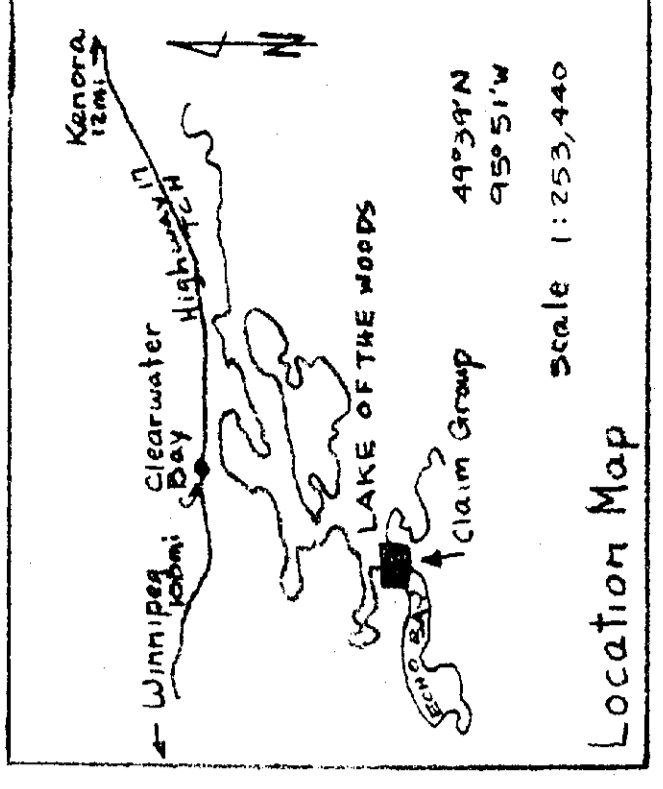
LAKE

63 20 23 43 11 6 42 12 13 12 15 8 14 12 31 75 34 18 9 180 7 14 5 13 93 32 14 24 14 12 24 64 5 3 8 15 18 38 27 13 5 6 42 26 6 29 22 78 52 40 26 10 8 10 7 6 3 8 15 17 20 11 13 23 53 23 20 5 13 18 14 10 2 8+00S 9+00S 10+00S 11+00S

- SYMBOLS**
- 55 Copper in parts per million
 - Claim post (C.P.) witness post (W.P.) claim lines
 - Claim number
 - Flat, wet, poorly drained area

- NOTES**
1. Samples of humus (or soil, where humus unavailable) were collected by H.G. Tibbo during the 4-day period Oct. 7th to Oct. 10th, 1980.
 2. Each of the 214 samples collected was put in a standard Kraft bag. Samples were dried, prepared for analyses and analyzed by X-Ray Assay Laboratories Ltd., 1885 Leslie St., Don Mills, Ont.
 3. Analytical method for copper was atomic absorption.
 4. Soil cover is variable from nil to 2 ft. except in flat, low-lying poorly drained areas where unknown thicknesses of gray clay have developed. The soil is poorly developed and was probably derived locally.
 5. Vegetation consists of malformed scrub oak in areas underlain by siliceous tuffs, and mature cedar, poplar and fir in areas underlain by more basic rocks.

magnetic declination
1980 7° 41' E, decreasing 4.5
annually
NTS reference S2E/10



COPPER
SOIL GEOCHEMISTRY PLAN
MINERAL CLAIMS 489739 & 489740
ECHO BAY AREA, LAKE OF THE WOODS,
KENORA MINING DISTRICT, ONTARIO
BY
H.G. TIBBO
OCTOBER, 1980 SCALE 1:1200

