

GEOLOGICAL, GEOCHEMICAL, & GEOPHYSICAL REPORT

- on the -

MIR CLAIMS  
ATLIN MINING DIVISION  
BRITISH COLUMBIA

- for -

GRANVILLE SQUARE JOINT VENTURE,

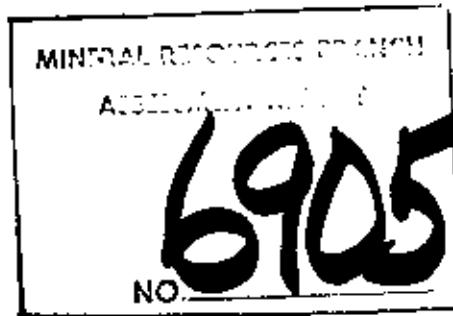
Managed by: UNION OIL COMPANY OF CANADA LTD.,

Box 999,  
CALGARY, Alberta.

WORK COMPLETED: June 25 - July 18, 1978.  
LOCATION: NTS 104N/10W.  
59°38'N; 132°50'W.  
50 Km. due east of Atlin.

Part 2 of 2

Prepared by:



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Kamloops, B. C.

John R. Kerr, P. Eng.,  
September, 1978.

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SUMMARY

The Mir claims cover the east and central portion of the Surprise Lake batholith, and were located in 1976 to cover geochemical anomalies (U) and radioactive springs. Follow-up work in 1977 resulted in two areas of prime interest.

- (1). Radon Cirque: Pb, Zn, Ag,  $Fe_3O_4$ ,  $U_3O_8$  and MnO mineralization in highly fractured granitic rock.
- (2). Graben Area: Very high Pb, Ag, and U silt and soil values associated with a major graben fault.

The obvious, and probably the only type of economic model in the claim area are polymetallic vein deposits, associated with fault and shear structures. The 1978 field programme was oriented at exploring for such deposits, and included:

- (1). Geological mapping of grids established in both areas.
- (2). Soil sampling, analysis for U, Pb, and Ag.

- (3). Radiometrics.
- (4). Electromagnetic surveys.
- (5). Magnetometer surveys.

The magnetometer proved to be the most useful tool in the Radon Cirque area. A 350 meter long magnetic anomaly was delineated, and is associated with the known Pb, Ag, Zn, and  $U_3O_8$  mineralization.

Within the Graben area, four soil and radiometric anomalies have been interpreted, and are worthy of further detailed exploration. The results of the 1978 programme were not successful in pinpointing specific bedrock targets in the graben area.

Two diamond drill holes were completed during 1978, one through the magnetic anomaly in Radon Cirque, and one intersecting the main graben fault in the Graben area. Results of this drill programme are not available for this report, and are to be submitted in a report by B. Price, P. Eng. at a later date.

Recommendations for further work are continued diamond drilling on the known magnetic anomaly, and detailed magnetics, geochemistry, radiometrics, electromagnetics and geological mapping in both the Radon Cirque and Graben areas.

INTRODUCTIONGeneral Statement:

The Mir Group of claims were staked during 1976 to cover radioactive springs and swamps, and uranium geochemical anomalies resulting from a regional silt and water sampling programme completed during 1976. During 1977, a grid was established in what is referred to as the Radon Cirque area of the claims. Soil sampling, radiometrics and limited trenching were completed on this grid. PbS, MnO, Fe<sub>3</sub>O<sub>4</sub> and Ag mineralization in shear and/or fault zones were discovered. Unexplained radon anomalous waters, and uranium soil anomalies resulted from the geochemical programme. Also during 1977 detailed soil, water and silt sampling was completed in what is referred to as the Graben area of the Mir claims. Anomalous values of lead, uranium and silver resulted from this programme over the entire surveyed length of the graben fault. Results of the 1977 programme are filed in a report by D. G. Leighton and Associates Ltd. (November, 1977).

The Mir claims cover the central and eastern portion of the Surprise Lake batholith. The eastern portion of the claims cover the western half of the Gladys River valley (Graben area). The obvious economic target for mineral exploration are polymetallic veins, within the batholith, and associated with major fault zones. The objective of the 1978 field programme was twofold:

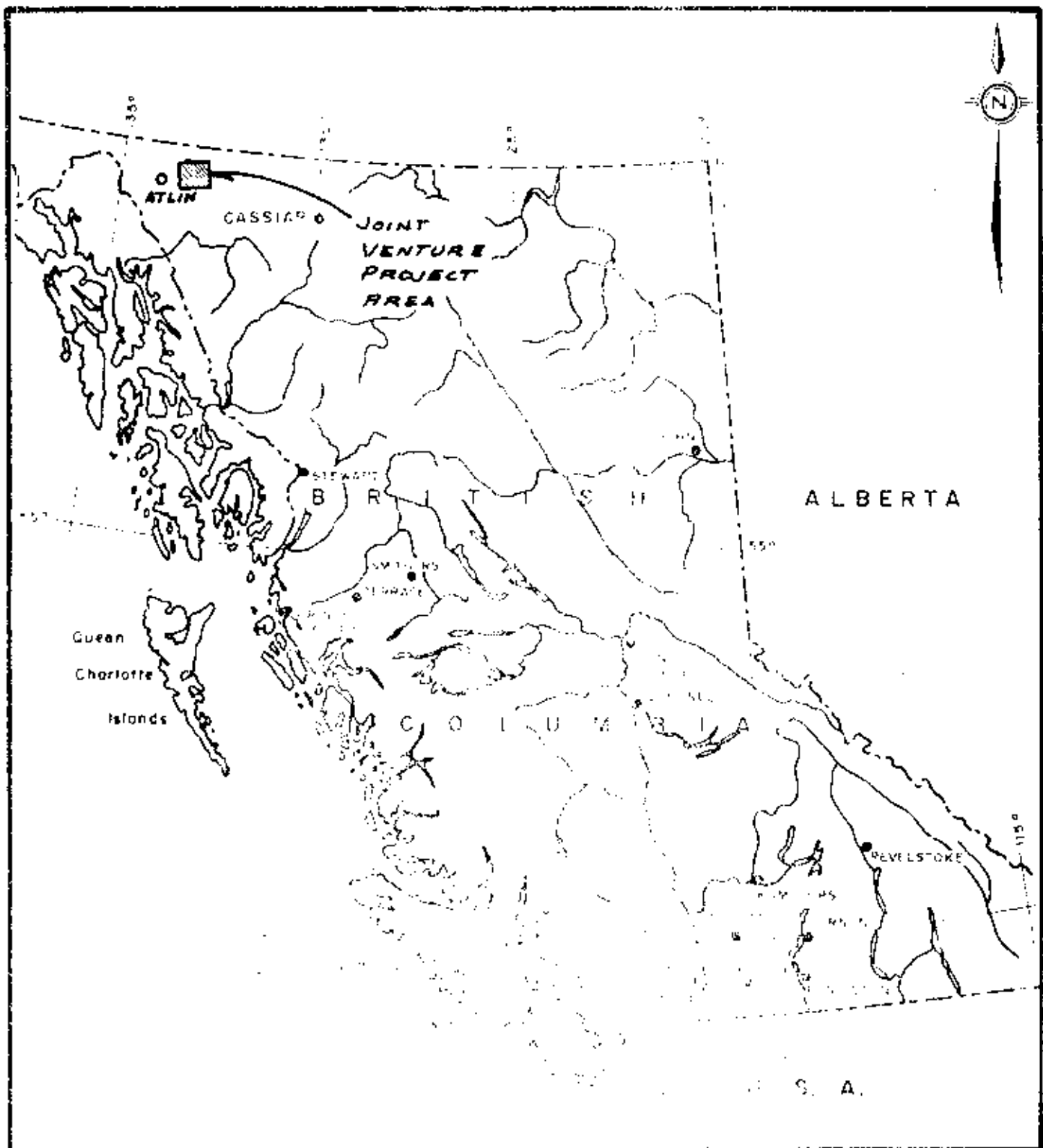
- (1). To complete detailed magnetics, electromagnetics, and geological mapping over the existing grid area of the Radon Cirque Area.
- (2). To complete detailed soil sampling, radiometrics, magnetics, electromagnetics, and geological mapping on a grid established over the full length of the graben fault.

This report summarizes the results of this programme.

Location and Access:

The Mir claims are located 20 Km. east of Surprise Lake and 50 km. due east of Atlin, B. C.





|                                       |                          |
|---------------------------------------|--------------------------|
| <b>GRANVILLE SQUARE JOINT VENTURE</b> |                          |
| <b>LOCATION MAP</b>                   |                          |
| <b>PROJECT AREA</b>                   |                          |
| <b>ATLIN DISTRICT</b>                 |                          |
| <b>LIARD MINING DIVISION -</b>        |                          |
| <b>BRITISH COLUMBIA</b>               |                          |
| DATE: <b>Sept. 1978</b>               | SCALE: <b>1CM = 87KM</b> |
| DRAWN BY:                             | DWG. No. <b>175-1</b>    |

Prepared by A. R. Kerr, J. R. Kerr, et al.

Geographic coordinates are 59°38'N, and 132°50'W. Access to the property is directly possible by helicopter. Float equipped fixed-wing aircraft can land on Trout Lake, which provides a 2-3 Km. hike to the eastern portion of the claims.

Topography and Vegetation:

The claims are located on an unnamed mountain within the Snowdon Range. Local relief is moderate to steep, elevations ranging from 300m(a.s.l.) in the Gladys River valley to over 1,900 m (a.s.l.) on some of the peaks. Steep-walled cirques are common on north and east facing mountain slopes. Flat, felsenmeer strewn, mountain tops and ridges are evidence of non-glaciated areas.

The timber line is located at 1,200-1,300 m (a.s.l.). Above this elevation, vegetation consists of alpine growth, and small clusters of dwarf spruce. At the lower elevations, the north and east facing slopes are heavily timbered by jackpine, spruce, and balsam.

Claims:

The property consists of five contiguous claims, staked under the Modified Grid System, and grouped as follows:

| <u>Group</u> | <u>Claim Name</u> | <u>No. Units</u> | <u>Record No.</u> | <u>Mining Div.</u> | <u>Expiry Date*</u> |
|--------------|-------------------|------------------|-------------------|--------------------|---------------------|
| Mir 2 & 3    | Mir 2             | 20               | 92                | Atlin              | July 5, 1985        |
|              | Mir 3             | 20               | 93                | Atlin              | July 5, 1985        |
| Mir 5        | Mir 5             | 20               | 125               | Atlin              | Sept. 17, 1981      |
| Mir 6 & 7    | Mir 6             | 20               | 126               | Atlin              | Sept. 17, 1984      |
|              | Mir 7             | 20               | 127               | Atlin              | Sept. 17, 1984      |

\*On acceptance of this report, and a drill report to be submitted by B. Price, P. Eng.

All claims are recorded in the name of Union Oil Company of Canada Ltd, on behalf of the Granville Square Joint Venture.

History of Work:

Canadian Johns-Manville Co. Ltd. held portions of the western half of the claims during the early nineteen

seventies. It was at this time that the "Snowbird" uranium occurrence was located on the ridge between Zenazie Creek and Trout Lake. There is no evidence of previous detailed ground surveys or diamond drilling completed on the Mir claims.

There are no operating mines within the general area of the Mir claims.

FIELD PROGRAMME (1978)

RADON CIRQUE: July 6 - 18, 1978

One crew spent five days completing geophysical surveys, limited geochemistry, and geological mapping on the existing grid area.

Geological Mapping: All outcrop and topographic features were noted, and tied into grid coordinates. The results are shown on Figure 175A-3.

E-M Survey: Readings were taken along all lines at 50 meter intervals with a Sabre Electronics VLF-EM Unit. EM profiles are shown on the accompanying 1:2,000 scale grid map - Figure 175A-4.

Magnetometer Survey: Readings were taken along all lines at 50 and 25 meter intervals with a McPhar-700 magnetometer. Traverses were tied into a base station at least twice a day (established on LO+00 at the baseline), and closed into known stations at the end of each traverse loop. Where necessary, readings were corrected for diurnal variation. Readings were plotted on the accompanying 1:2,000 scale map, and contoured to 50~~0~~ intervals (see Figure 175A-5).

A detailed grid was established along the strike of an interpreted magnetic anomaly, lines spaced at 25 meters. Readings were taken along all lines at 2 and 10 meter intervals across the full width of the anomaly. Values and appropriate contour intervals are shown on the accompanying 1:500 scale map, Figure 175A-6.

Geochemistry: 14 rock chip samples were collected from various outcrop areas. The samples were shipped to Min-En Laboratories in North Vancouver, B. C., where they were ground to -80 mesh. An aliquot of the sample was digested in hot  $\text{HNO}_3$ , and the uranium content was determined by fusion fluorometric methods. Results are expressed in parts per million (ppm) uranium, detected to 0.3 ppm U.

In addition, a total of 40 soil samples were collected along 4 selected lines of the detailed grid, to study the geochemical response across the magnetic anomaly. Samples were dried and sieved, the -80 mesh fraction being digested in a nitric, perchloric solution to extract Pb and Ag, and in hot nitric acid to extract the uranium. The silver and lead contents were determined by normal atomic absorption methods, and uranium by fusion - fluorometric methods.

Location and results of the rock chip samples are shown on the Geological Plan, Figure 175A-3. The soil sample values are not plotted; however, the lab reports are shown in Appendix C.

GRABEN AREA: June 26 - July 15, 1978.

Two crews spent 14 days each establishing a grid, and completing various geophysical, geochemical and geological surveys in the graben area. A baseline was established along the full length of the graben (4.5 km), and 31.5 km. of cross lines were chained and compassed at 100 meter intervals in the southern portion of the grid, and at 500 meter intervals in the northern portion. Stations were established at 50 meter intervals along all lines.

Geological Mapping: Outcrop areas, and topographic features were tied into grid coordinates. Results are plotted on the accompanying 1:2,000 scale map, Figure 175B-3, and 1:5,000 scale map, Figure 175B-9.

Radiometric Survey: The bulk of the scintillometer readings were taken with a McPhar-TV-1A unit. Due to a temporary short (due to moisture), four lines, L20N, 25N, 30N, and 35N, were completed using a Saphymo-Stell SPP2-NF unit. Values of each unit were calibrated in order to correlate the Saphymo-Stell readings (cps) to the TV-1A readings (cpm). Readings were taken along all lines at 50 meter intervals.

In addition to reading the total gamma-ray count,  $T_2$  (Th+U), and  $T_3$  (Th) readings were taken at all stations whiles using the McPhar unit. The residual uranium count was calculated ( $T_2 - 3.5 T_3$ ).

All values were plotted on the accompanying 1:2,000 scale map, Figure 175B-4, for the southern portion of the grid. The total count is contoured at 1,000 cpm intervals. The 20 cpm contour is interpreted to indicate the residual uranium anomalies. Total count values only are plotted on the accompanying 1:5,000 scale map, Figure 175B-9, for the northern portion of the grid. Only the 3,000 contour is interpreted to express radiometric anomalies.



Geochemistry: Soil samples were collected along all lines at 50 meter intervals. Samples were collected from B horizon at all sample sites. Where the organic layer was too deep, or good B horizon samples could not be obtained, samples were not collected. In the eastern portion of the grid area, a deep glacial overburden exists in the Gladys River valley. Soil sampling over this glacial fill was considered not to reflect bedrock source; therefore, samples were not collected. Silt and water samples were collected from most creeks and seeps encountered on the grid. In addition, six test pits were dug into a swamp, up to 1 meter deep, and soil profile samples were collected from each pit. A number of erratically high sample values were rechecked, and some samples were re-collected. Rock chip samples were collected from various outcrops.

In summary, the following samples were collected:

|                         |     |
|-------------------------|-----|
| Soil samples (original) | 476 |
| Test pit samples        | 17  |
| Silt samples            | 8   |
| Water samples           | 6   |
| Duplicated samples      | 15  |
| Rock Chip samples       | 8   |

All samples were shipped to Min-En Laboratories in North Vancouver, B. C. All soils and silts were analyzed for Pb, Ag, and U. Water and rock chip samples were analyzed for U only. Laboratory methods were similar to those collected in the Radon Cirque area.

Results are plotted on the accompanying 1:2,000 scale maps of the southern portion of the grid, and 1:5,000 scale maps of the northern portion of the grid. Statistical analysis of each method (discussed in next chapter), provided anomalous threshold contours.

Electromagnetic Survey: A Sabre Electronics VLF-EM unit was used to obtain readings at 50 meter intervals along each line. EM profiles were plotted on the accompanying 1:2,000 scale map, Figure 175B-8, and crossovers along each profile (positive to negative) are interpreted as EM conductors.

Magnetometer Survey: A McPhar - 700 unit was used to take magnetic readings along all lines at 50 meter intervals. Tie - in to a base station (L5+00N @ 0+75W) was completed at least twice per day, with loop closures every 2-3 hours. Diurnal variation was noted, and readings for two days were corrected where this variation exceeded 20 gammas.

Readings were plotted on the accompanying 1:2,000 scale map, Figure 175B-8, and contoured to 100' intervals.

GEOLOGY

The geology of the Surprise Lake batholith and general area is well documented in G.S.C. Memoir 307, Atlin Map Area (104N), by J.D. Aitken.

The Mir claims are underlain entirely by rocks of the Surprise Lake batholith. Aitken describes the batholith as a fine-coarse grained alaskite. On the Mir claims the general description of the rock has been a fine-coarse grained, occasionally porphyritic, biotite > hornblende rich quartz-monzonite.

Three various rock-type differentiates of the Surprise Lake batholith have been identified:

- (1). Medium-coarse grained, biotite rich (minor hornblende), monotonous quartz-monzonite.
- (2). Fine-medium grained, biotite-hornblende rich quartz-monzonite, possibly a granodiorite. Occasional large phenocrysts of orthoclase up to 1" diameter.

- (3). Coarse-grained, porphyritic, biotite hornblende rich quartz-monzonite. Phenocrysts are equally quartz and orthoclase up to 1" diameter.

There is evidence of textural zoning within the grid areas mapped. An interpretation of this zoning is not possible due to lack of extensive outcrop exposures.

In the Radon Cirque area, air photo interpretation indicates three major structural trends:

- (1). N - S
- (2). N60°-70°E
- (3). N35°-45°W

The interpreted magnetic anomaly indicates a trend of N80E dipping steeply to the north. This zone possibly relates to the N60-70°E lineaments.

During the 1977 programme, a test pit was dug into area of abundant mineralized float. A grab sample of the float assayed:

|                               |          |
|-------------------------------|----------|
| Pb                            | .65%     |
| Ag                            | .45 oz/T |
| U <sub>3</sub> O <sub>8</sub> | .007%    |

Manganese and magnetite are also very abundant. The magnetite content is estimated at 3-10%, and is the cause of the interpreted magnetic anomaly. Mineralization is within altered and fractured quartz-monzonite, undoubtedly related to a fault or shear zone.

In the Graben area, the main structural feature is the main graben fault, trending N35°E, and believed to dip steeply to the west. The graben is not exposed within the claim area. The baseline of the graben grid approximates the location of the interpreted fault. A parallel lineament at 2+50W extends from 3+00N to 13+00N. Separating the two lineaments is a steep ridge of glacially deposited boulders, interpreted as an esker. It is therefore possible that the preglacial valley, now occupied by the esker, is the location of the main graben fault.

Outcrop exposed in the area of Delta Pool to the east of the graben indicates extreme jointing, and some secondary K-feldspar, sericite, quartz and limonite on fracture and joint faces. The trend of the

joints are N35°E, with dips 70°W, and 40-60°E. A fault has been interpreted through Delta Pool, paralleling and probably related to the main graben fault.

Mineralization of economic significance has not been discovered in the graben area. Detailed prospecting with a scintillometer has indicated radioactivity associated with fractures in the Delta Pool area.

GEOCHEMISTRY

A statistical analysis of the soil samples collected in the graben area is summarized in the following table:

|                 |          | <u>Ag</u> | <u>Pb</u> | <u>U</u>  |
|-----------------|----------|-----------|-----------|-----------|
| No. of samples  | (n)      | 476       | 476       | 476       |
| Mean            | (m)      | 1.08 ppm  | 44.14 ppm | 25.78 ppm |
| Std. Deviation  | (s)      | 0.94 ppm  | 88.52 ppm | 69.09 ppm |
| Poss. Anomalous | (> m)    | > 1.1 ppm | > 45 ppm  | > 26 ppm  |
| Prob. Anomalous | (> m+s)  | > 2.0 ppm | > 133 ppm | > 94 ppm  |
| Def. Anomalous  | (> m+2s) | > 2.9 ppm | > 221 ppm | > 164 ppm |

The accompanying geochemical maps of the graben area are contoured according to these anomalous limits.

Four anomalies are considered of definite interest.

1. Uranium: L2+00N to L7+00N from 2+50<sup>W</sup> to 3+50<sup>W</sup>.

This anomaly contains the highest value of uranium in soil (3,050 ppm U), and the highly anomalous pit samples in the swamp. (100-350 ppmU). Silver and lead values



are low in this area, which suggests that the uranium may have been transported.

II. Lead (Minor Uranium and Silver). L6+00N to L10+00N from 0+50<sup>E</sup> to 1+50<sup>E</sup>. This area contains the highest lead value (2,750 ppm), and some high silver and lead values in the northern portion of the anomaly. The silver anomaly is strong to the north on L12+00N. Delta Pool, and strong jointing on L9+00N, are within this anomalous area.

III. Uranium (Minor Silver). Baseline, from 20+00N to 45+00N. This anomaly contains soils > 150 ppm U, that has been interpreted from lines spaced at 500 meters. The zone approximates the interpreted location of the graben fault.

IV. Lead (Minor Uranium). L20+00N and L25+00N at 4+00<sup>W</sup> to 4+50<sup>W</sup>. Four soil samples contain lead ranging from 250 - 860 ppm.

Rock chip samples collected from both grid areas probably reflect the average uranium content in the

leached capping of the Surprise Lake batholith (~ 11 ppmU). It is interesting to note that uranium content is highest in the Radon Cirque grid within rock outcrops near the known mineralized float.

Soil samples collected across the magnetic anomaly on Radon Cirque reflected metal values within the magnetic zone on two of the lines. The interpretive value of the detailed sampling at this point in time is questionable.

## RADIOMETRICS

Radiometrics was not completed on the Radon Cirque grid during 1978, therefore this chapter deals specifically with the survey completed on the Graben grid.

In general, contour interpretation of the total count relates to topographic features. Radiometric highs reflect outcrop areas, and lows reflect deep overburden in swamps. It is therefore necessary to attempt to interpret anomalies within the general contoured anomalies as presented on the accompanying radiometric map. Within the southern portion of the grid, interpretation of residual uranium anomalies assists in delineating radiometric targets.

The four radiometric anomalies listed below correlate to the geochemical anomalies mentioned in the preceding chapter:

I. L2+00N to L7+00N from 2+50<sup>W</sup> to 3+00<sup>W</sup>. Values in this area exceed 3,000 cpm, peaking at 4,500 cpm. Although the values are not high, much of the anomaly

exists over swamp area, where overburden is 10-30 meters deep. A strong residual uranium anomaly correlates well to the total count anomaly. This radiometric anomaly is coincident with the strong uranium soil anomaly.

II. L5+00N to L10+00N, from 0+50<sup>E</sup> to 1+00<sup>E</sup>. A large portion of this anomaly corresponds with the large outcrop exposure, giving rise to zones > 5,000 cpm. However, the western portion of the anomaly is covered by overburden 3-6 meters deep. A residual uranium anomaly corresponds with the total count anomaly. Strong lead, and weak silver and uranium in soils correspond with the radiometric anomaly.

III. Baseline from 20+00N to 45+00N. A radiometric anomaly correspond with the graben area and uranium values in soil.

IV. L26+00N and L30+00N @ 4+50<sup>W</sup>. Strong radiometrics correspond with high lead values in soil.

ELECTROMAGNETIC SURVEY

In the Radon Cirque area, results of the electromagnetic survey were negative. Two small crossovers were interpreted in the northern portion of the grid; however, results are considered inconclusive to interpret conductors. Some detailed traverses were completed over the magnetic anomaly; however, crossovers were not interpreted. It can therefore be concluded that the magnetic anomaly contains less than 20% metallic minerals, and is probably disseminated throughout the zone.

In the Graben area, three conductors have been interpreted.

1. 1,5+00N to 1,17+00N from 5+00<sup>E</sup> to 7+00<sup>E</sup>.

This conductor probably contains the strongest values of the surveyed area, and is made up of three en echelon interpreted conductors. The conductor corresponds quite well with the glacial fill-bedrock interface, and may represent a clay horizon within the glacial fill. There are no other geophysical or geochemical features associated with this anomaly; therefore, the conductor is not considered an exploration target.

II. L5+00N to L17+00N, along the baseline. The conductor corresponds with the interpreted trace of the main graben fault.

III. L2+00N to L5+00N @ 2+50<sup>W</sup>. This weak conductor correlates to the anomalous swamp, and radiometric anomaly.

MAGNETOMETER SURVEY

The magnetometer appeared to be the most useful tool in the Radon Cirque area for detailing the mineralized structures. The survey completed on the main original grid encountered only one station that showed a marked magnetic response to the zone; however, a weak magnetic response was realized in the general area. The original grid was misoriented to the actual strike of the zone; therefore, a new detailed grid was established with the baseline paralleling the strike of the zone, N80°E.

The accompanying detailed magnetic map illustrates the irregular shape and dimensions of the anomaly (350 meters long x 30 meters wide). Four features of the zone are:

- (1). A small branch of the main zone strikes N60°E, over a detected length of 80 meters.
- (2). The zone is abruptly terminated at both ends. The eastern termination correlates with an air-photo interpreted N-S fault. The western termination is within 50 meters of an interpreted fault.

(3). Magnetics has delineated a second magnetic zone 100 meters to the NW of the main zone. The anomaly attains the same strike, and the eastern limit of this zone corresponds to the western limit of the main zone. Fault offset of approximately 100 meters (lateral) is suspected. This anomaly is wider and weaker than the main anomaly, which suggests the magnetic source may be at depth.

(4). The magnetic profile (L1+25W shown) indicates a northerly dipping structure ( $60-70^\circ$ ), approximately 6-10 meters wide.

Magnetics in the graben area was generally negative. Total magnetic relief in the surveyed area is  $150 \gamma$ , (compared to  $3,000 \gamma$  in the Radon Cirque Area). Two weak anomalies, around  $100 \gamma$ , have been delineated.

I. L9+00N @ 1+00<sup>E</sup>, in the area of Delta Pool.

II. L11+00N to L14+00<sup>N</sup>, near the baseline.



As readings were taken at 50 meter intervals, it is very possible that strong, narrow anomalies were missed in the survey. The broad, weak interpreted zones may reflect small magnetite rich fault zones in the area. These two zones should be detailed, with magnetic readings at 10 meter intervals.

CONCLUSIONS AND RECOMMENDATIONS

At this report time, it is understood that two diamond drill holes have been completed on the Mir Claims, one hole through the magnetic anomaly in the Radon Cirque area, and one hole into the main graben and corresponding geochemical and radiometric anomaly on L6+00N @ 3+00W. Results of the drilling have not been compiled, and therefore are inconclusive. Results are to be submitted at a later date in a report submitted by B. Price, P. Eng.

RADON CIRQUE AREA:

The delineated magnetic anomaly provides a very real target for further exploration. Assays of a grab sample of mineralized float indicate low subeconomic values in lead, silver, and uranium; however, previous sampling (1977) indicates 12.3% Pb, 4.35% Zn, 15.5 oz. Ag/Ton, and 1.30 lbs.  $U_3O_8$ /Ton.

The trace of the known magnetic anomaly corresponds well with the downhill dispersion pattern of the geochemical anomalies in the grid area, and

the radioactive, radon springs. There are other radon producing springs in the claim area to the north of the grid.

It is felt that the only economic target within the Radon Cirque area are polymetallic veins. Further exploration should be testing the known magnetic anomaly with at least three diamond drill holes, accompanied by detailed magnetics and prospecting the peripheral area of the grid.

GRABEN AREA:

As in the Radon Cirque area, the most likely target for economic deposits in the graben area are polymetallic veins associated with the main graben structure. Geochemistry has provided very interesting and strong anomalies; however, a rather confused relationship with the various associated elements. The interpreted geochemical anomalies show very little correlation between lead, silver, and uranium. It is concluded that the graben area is a highly mobile geochemical environment, and that further geochemistry alone is not sufficient to pinpoint small polymetallic veins for drill targets.

In contrast to the Radon Cirque area, electromagnetic methods delineated very real conductors in the graben area. The two interpreted conductors related to bedrock source, may reflect the main graben fault. The one diamond drill hole through the graben did not encounter massive sulphides; therefore, the conductor can be explained by non-metallic conducting minerals associated with fault zones (clay, etc.)

Radiometric surveys provided anomalous zones within the grid area; however, caution is required in interpretation, as radiometric anomalies are closely related to topographic features and proximity to bedrock. Furthermore, as great mobility of uranium in soils is suspected, interpretation of radiometric anomalies may reflect transported uranium.

The lack of apparent success with the magnetometer in pinpointing targets within the graben area is twofold.

(1). Magnetite is not necessarily a constituent of all known polymetallic deposits.

(2). The 50 meter station interval, and 100 meter line interval were statistically too great to detect any magnetic response from 5-15 meter wide veins.

The following targets in the graben area are considered worthy of further exploration.

I. L2+00N to L7+00N @ 2+S0W. Strong uranium soil and radiometric anomaly, associated with an EM conductor and the main graben fault. If the results of the initial drill hole are totally negative, the priority of this anomaly is greatly reduced. Lack of lead and silver values with the soils suggest a transported accumulation of uranium in the swamp area. Further surface exploration in this area is difficult due to the esker ridge possibly covering the main graben fault.

II. L6+00N to L10+00N @ 1+00<sup>N</sup> - Delta Pool Area. Strong lead, weak uranium and silver soil anomalies associated with a strong radiometric anomaly and extreme fracturing and jointing within the quartz-monzonite. Work during the 1977 season indicated springs at Delta Pool were emitting a very high content of radon gas (not experienced in 1978).

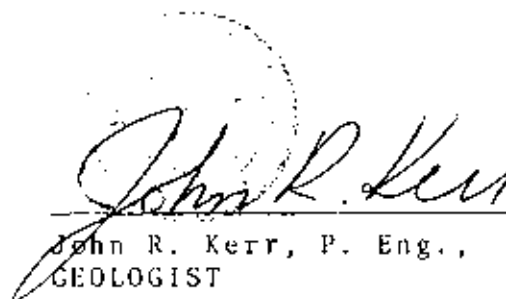
II. Base Line from 20+00N to 45+00N. A strong uranium soil and radiometric anomaly associated with the main graben.

IV. L25+00N & L30+00N @ 4+50<sup>N</sup>. Strong lead, and moderate uranium soil anomalies associated with strong radiometric anomalies.

Further exploration in these target areas should be oriented at delineating polymetallic veins on a detailed grid (line spacing - 50 meters, and station interval - 25 meters). Methods recommended are soil sampling, magnetics, electromagnetics, radiometrics, geological mapping and prospecting.

Respectfully Submitted By:

KERR, DAWSON & ASSOCIATES LTD.,

  
John R. Kerr, P. Eng.,  
GEOLOGIST

APPENDIX A

COST STATEMENT

COST STATEMENT

Mir Claims, Atlin Mining Division

Labour: June 26 - July 4, 1978  
July 6, 7, 8, 9, 15, and 18, 1978.

John R. Kerr, P. Eng.,  
15 days @ \$175.00/day . . . . . \$2,625.00

W. Gruenwald, Geologist  
14 days @ \$125.00/day . . . . . 1,750.00

B. Cross, Assistant  
13 days @ \$ 95.00/day . . . . . 1,235.00

R. MacArthur, Assistant  
14 days @ \$ 95.00/day . . . . . 1,330.00 . . . \$ 6,940.00

Transportation:

Helicopter Charter Bell 47G-3B1  
24.6 hrs. @ \$207/hr. \$5,092.20

Truck Rental  
14 days @ \$20.00/day \$280.00  
280 mi. @ \$0.25/mi. 70.00 350.00 . . . 5,442.20

Geochemical Analysis:

565 soil samples @ \$6.05/sample  
(Pb, Ag U) \$3,418.25

22 rock samples @ \$5.25/sample  
(U) 115.50

6 H<sub>2</sub>O samples @ \$5.00/sample  
(U, Ph) 30.00 . . . 3,563.75

Prorated Cost - Mobilization and Field Preparation:  
(61.9% x \$5,470) . . . . . 3,385.90

Supplies and Equipment Rental: . . . . . 1,656.40

Report Preparation:

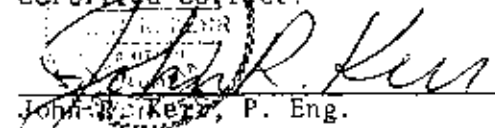
John R. Kerr, P. Eng.,  
11 days @ \$175.00/day . . . . . \$1,925.00  
Drafting . . . . . 560.00  
Photo copying and Reproduction. 210.00 . . . 2,695.00

TOTAL . . . . . \$23,683.25

Applied as follows:

Mir 5 & 6 \$6,314.20  
Mir 2 & 3 5,446.20  
Mir 7 11,922.85

Certified Correct:

  
John R. Kerr, P. Eng.



APPENDIX B

CERTIFICATE OF QUALIFICATIONS

JOHN R. KERR, P.ENG.  
GEOLOGICAL ENGINEER

1 - 219 VICTORIA STREET  
KAMLOOPS, B.C.

PHONE (604) 374-0544

CERTIFICATE

I, JOHN R. KERR, OF KAMLOOPS, B. C. DO HEREBY CERTIFY THAT:

- (1). I am a member of the Association of Professional Engineers of British Columbia and a Fellow of the Geological Association of Canada.
- (2). I am a geologist employed by Kerr, Dawson and Associates Ltd. of #1 - 219 Victoria Street, Kamloops, B. C.
- (3). I am a graduate of the University of British Columbia (1964), with a B. A. Sc. degree in Geological Engineering.
- (4). I have practised my profession continuously since graduation.
- (5). I supervised and assisted in the collection of data as compiled in this report. I am the author of this report which is based on the aforementioned data.

  
*John R. Kerr*  
John R. Kerr, P. Eng.

September, 1978,

KAMLOOPS, B. C.

APPENDIX C

GEOCHEMICAL RESULTS

PROJECT No.: \_\_\_\_\_

MIN - EN Laboratories Ltd.

 DATE: July 13

 ATTENTION: J. Kerr

 705 WEST 15th ST. NORTH VANCOUVER, B.C. V7M 1T2  
 PHONE (604) 980-5814

Soils - Groben Grid

1978.

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb | As ppm                | Mn ppm | Au ppb | U ppm |     |     |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------------|--------|--------|-------|-----|-----|
| 81            | 85     | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125    | 130                   | 135    | 140    | 145   | 150 | 155 |
| MH00N5+00W    |        |        | 52     |        |        |        |        | 08     |        | Bouldery soil (Talus) |        |        | 40.5  |     |     |
| 4+50W         |        |        | 23     |        |        |        |        | 05     |        |                       |        |        | 3.4   |     |     |
| 3+50W         |        |        | 39     |        |        |        |        | 14     |        | Gr/Bc sandy soil      |        |        | 13.5  |     |     |
| 3+00W         |        |        | 32     |        |        |        |        | 09     |        |                       |        |        | 2.3   |     |     |
| 2+50W         |        |        | 38     |        |        |        |        | 25     |        | Organic soil (Mud)    |        |        | 460.0 |     |     |
| 2+00W         |        |        | 17     |        |        |        |        | 05     |        | Good soil             |        |        | 35.5  |     |     |
| 1+50W         |        |        | 33     |        |        |        |        | 09     |        | Gr/Bc sand st         |        |        | 140.0 |     |     |
| 1+00W         |        |        | 53     |        |        |        |        | 23     |        | Organic soil          |        |        | 725.0 |     |     |
| 0+50W         |        |        | 14     |        |        |        |        | 04     |        | Organic soil & clayey |        |        | 30.5  |     |     |
| BL            |        |        | 19     |        |        |        |        | 08     |        | Gr/Bc sand/st & clay  |        |        | 29.5  |     |     |
| 0+50E         |        |        | 24     |        |        |        |        | 09     |        |                       |        |        | 45.5  |     |     |
| 1+00E         |        |        | 25     |        |        |        |        | 14     |        | Organic               |        |        | 155.0 |     |     |
| 1+50E         |        |        | 14     |        |        |        |        | 06     |        |                       |        |        | 9.0   |     |     |
| 2+00E         |        |        | 14     |        |        |        |        | 07     |        | Black organic soil    |        |        | 75.0  |     |     |
| M1N2+50E      |        |        | 14     |        |        |        |        | 05     |        |                       |        |        | 22.5  |     |     |
| M2N5+00W      |        |        | 38     |        |        |        |        | 07     |        | Boulders with Talus   |        |        | 46.5  |     |     |
| 4+50W         |        |        | 50     |        |        |        |        | 07     |        |                       |        |        | 15.0  |     |     |
| 4+00W         |        |        | 55     |        |        |        |        | 09     |        | Gr/Bc sand/st         |        |        | 31.0  |     |     |
| 3+50W         |        |        | 24     |        |        |        |        | 06     |        |                       |        |        | 12.0  |     |     |
| 3+00W         |        |        | 25     |        |        |        |        | 09     |        |                       |        |        | 60.0  |     |     |
| 2+00W         |        |        | 25     |        |        |        |        | 07     |        |                       |        |        | 1.8   |     |     |
| 1+50W         |        |        | 21     |        |        |        |        | 09     |        | Clay                  |        |        | 1.3   |     |     |
| 1+00W         |        |        | 11     |        |        |        |        | 04     |        | Grey clay             |        |        | 0.8   |     |     |
| 0+50W         |        |        | 21     |        |        |        |        | 20     |        | Clay organic          |        |        | 3.4   |     |     |
| 0+00          |        |        | 12     |        |        |        |        | 06     |        | Gr/Bc - salt sand     |        |        | 0.3   |     |     |
| 0+50E         |        |        | 13     |        |        |        |        | 06     |        |                       |        |        | 0.3   |     |     |
| 1+00E         |        |        | 27     |        |        |        |        | 16     |        |                       |        |        | 2.3   |     |     |
| 1+50E         |        |        | 15     |        |        |        |        | 06     |        |                       |        |        | 1.3   |     |     |
| 2+00E         |        |        | 24     |        |        |        |        | 07     |        |                       |        |        | 0.8   |     |     |
| M2N2+50E      |        |        | 14     |        |        |        |        | 08     |        |                       |        |        | 0.3   |     |     |

Q. 181

## GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.:

MIN-EN Laboratories Ltd.

DATE: July 13

ATTENTION: J. Kerr

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7W 1T2

1978.

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb | As ppm | Mn ppm | Au ppb | U ppm |     |     |     |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|
| 51            | 86     | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125    | 130    | 135    | 140    | 145   | 150 | 155 | 160 |
| M3N5+00W      |        |        | 15     |        |        |        |        | 09     |        |        |        |        | 0.8   |     |     |     |
| 4+50W         |        |        | 14     |        |        |        |        | 07     |        |        |        |        | 1.8   |     |     |     |
| 4+00W         |        |        | 24     |        |        |        |        | 12     |        |        |        |        | 184.0 |     |     |     |
| 3+50W         |        |        | 36     |        |        |        |        | 08     |        |        |        |        | 11.5  |     |     |     |
| 3+00W         |        |        | 29     |        |        |        |        | 07     |        |        |        |        | 14.5  |     |     |     |
| 2+50W         |        |        | 22     |        |        |        |        | 08     |        |        |        |        | 98.0  |     |     |     |
| 2+00W         |        |        | 10     |        |        |        |        | 07     |        |        |        |        | 2.3   |     |     |     |
| 1+50W         |        |        | 11     |        |        |        |        | 11     |        |        |        |        | 1.3   |     |     |     |
| 1+00W         |        |        | 13     |        |        |        |        | 09     |        |        |        |        | 1.3   |     |     |     |
| 0+50W         |        |        | 14     |        |        |        |        | 09     |        |        |        |        | 1.3   |     |     |     |
| 0+00          |        |        | 9      |        |        |        |        | 06     |        |        |        |        | 1.8   |     |     |     |
| 0+50E         |        |        | 7      |        |        |        |        | 06     |        |        |        |        | 23.5  |     |     |     |
| 1+00E         |        |        | 15     |        |        |        |        | 10     |        |        |        |        | 75.0  |     |     |     |
| 1+50E         |        |        | 10     |        |        |        |        | 05     |        |        |        |        | 3.4   |     |     |     |
| 2+00E         |        |        | 9      |        |        |        |        | 06     |        |        |        |        | 24.5  |     |     |     |
| 2+50E         |        |        | 10     |        |        |        |        | 06     |        |        |        |        | 1.8   |     |     |     |
| M3N3+00E      |        |        | 20     |        |        |        |        | 18     |        |        |        |        | 14.0  |     |     |     |
| M4N0+00       |        |        | 9      |        |        |        |        | 06     |        |        |        |        | 1.8   |     |     |     |
| 0+50E         |        |        | 19     |        |        |        |        | 16     |        |        |        |        | 7.5   |     |     |     |
| 1+00E         |        |        | 14     |        |        |        |        | 09     |        |        |        |        | 1.3   |     |     |     |
| 1+50E         |        |        | 15     |        |        |        |        | 10     |        |        |        |        | 1.3   |     |     |     |
| 2+00E         |        |        | 9      |        |        |        |        | 06     |        |        |        |        | 1.3   |     |     |     |
| 2+50E         |        |        | 13     |        |        |        |        | 09     |        |        |        |        | 2.3   |     |     |     |
| 3+00E         |        |        | 18     |        |        |        |        | 12     |        |        |        |        | 2.8   |     |     |     |
| 3+50E         |        |        | 16     |        |        |        |        | 14     |        |        |        |        | 3.4   |     |     |     |
| 4+00E         |        |        | 15     |        |        |        |        | 21     |        |        |        |        | 12.5  |     |     |     |
| 4+50E         |        |        | 10     |        |        |        |        | 06     |        |        |        |        | 0.8   |     |     |     |
| 0+50W         |        |        | 11     |        |        |        |        | 07     |        |        |        |        | 1.3   |     |     |     |
| 1+00W         |        |        | 10     |        |        |        |        | 08     |        |        |        |        | 0.8   |     |     |     |
| M4N1+50W      |        |        | 8      |        |        |        |        | 06     |        |        |        |        | 1.8   |     |     |     |

Boulders with Talus

Silt sample

Silt sample muddy

Swampy, wet soil

Silt/Bk sand/soil

near Port of

near Port of

Silt/Bk soil

E. Bk.

D. H.

PROJECT No.                     

MIN - EN Laboratories Ltd.

DATE: July 13

ATTENTION: J. Kerr

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1978.

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb               | As ppm | Mn ppm | Au ppb | U PPM  |     |     |     |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|--------|--------|--------|--------|-----|-----|-----|
| 81            | 85     | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125                  | 130    | 135    | 140    | 145    | 150 | 155 | 160 |
| M4N2+00W      |        |        | 7      |        |        |        | 08     |        | ESKAS                |        |        |        | 1.3    |     |     |     |
| 2+50W         |        |        | 14     |        |        |        | 07     |        | next to swamp        |        |        |        | 1.8    |     |     |     |
| 3+00W         |        |        | 28     |        |        |        | 06     |        | Boulders on K. T. Rd |        |        |        | 21.0   |     |     |     |
| 3+50W         |        |        | 19     |        |        |        | 07     |        | "                    |        |        |        | 82.0   |     |     |     |
| 4+00W         |        |        | 9      |        |        |        | 06     |        | "                    |        |        |        | 2.8    |     |     |     |
| 4+50W         |        |        | 19     |        |        |        | 07     |        | "                    |        |        |        | 4.5    |     |     |     |
| M4N5+00W      |        |        | 9      |        |        |        | 08     |        | "                    |        |        |        | 5.0    |     |     |     |
| M5N0+00       |        |        | 17     |        |        |        | 17     |        | in Br. st/rd         |        |        |        | 1.8    |     |     |     |
| 0+50W         |        |        | 9      |        |        |        | 09     |        | "                    |        |        |        | 1.3    |     |     |     |
| 1+00W         |        |        | 6      |        |        |        | 05     |        | "                    |        |        |        | 2.8    |     |     |     |
| 2+50W         |        |        | 12     |        |        |        | 09     |        | ESKAS                |        |        |        | 1.8    |     |     |     |
| 2+00W         |        |        | 14     |        |        |        | 12     |        | "                    |        |        |        | 2.3    |     |     |     |
| 2+50W         |        |        | 9      |        |        |        | 06     |        | near swamp           |        |        |        | 9.5    |     |     |     |
| 3+00W         |        |        | 13     |        |        |        | 06     |        | edge of swamp        |        |        |        | 90.0   |     |     |     |
| 3+50W         |        |        | 84     |        |        |        | 40     |        | Boulders on K. T. Rd |        |        |        | 305.00 |     |     |     |
| 4+00W         |        |        | 10     |        |        |        | 06     |        | "                    |        |        |        | 6.5    |     |     |     |
| 4+50W         |        |        | 16     |        |        |        | 09     |        | "                    |        |        |        | 9.0    |     |     |     |
| 5+00W         |        |        | 13     |        |        |        | 10     |        | "                    |        |        |        | 3.4    |     |     |     |
| 0+50E         |        |        | 12     |        |        |        | 07     |        | in Br. st/rd         |        |        |        | 2.3    |     |     |     |
| 1+00E         |        |        | 15     |        |        |        | 08     |        | "                    |        |        |        | 2.3    |     |     |     |
| 1+50E         |        |        | 16     |        |        |        | 10     |        | "                    |        |        |        | 1.8    |     |     |     |
| 2+00E         |        |        | 18     |        |        |        | 10     |        | "                    |        |        |        | 2.3    |     |     |     |
| 2+50E         |        |        | 10     |        |        |        | 07     |        | "                    |        |        |        | 1.8    |     |     |     |
| 3+00E         |        |        | 10     |        |        |        | 07     |        | "                    |        |        |        | 2.3    |     |     |     |
| 3+50E         |        |        | 13     |        |        |        | 13     |        | "                    |        |        |        | 7.5    |     |     |     |
| 4+00E         |        |        | 18     |        |        |        | 20     |        | "                    |        |        |        | 5.0    |     |     |     |
| 4+50E         |        |        | 11     |        |        |        | 10     |        | "                    |        |        |        | 4.0    |     |     |     |
| M5N5+00E      |        |        | 14     |        |        |        | 08     |        | "                    |        |        |        | 15.0   |     |     |     |
| M6N0+00       |        |        | 10     |        |        |        | 07     |        | "                    |        |        |        | 1.8    |     |     |     |
| M6N0+50E      |        |        | 2750   |        |        |        | 28     |        | "                    |        |        |        | 50.0   |     |     |     |

*(Handwritten signature)*

PROJECT No.: \_\_\_\_\_

MIN - EM Laboratories Ltd.

DATE: July 13

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T7

PHONE (604) 980-5814

1978.

ATTENTION: J. Kerr

| Sample No. | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb                     | As ppm | Mn ppm | Au ppb | U ppm |     |     |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------|--------|--------|--------|-------|-----|-----|
| 6          | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50                         | 55     | 60     | 65     | 70    | 75  | 80  |
| 86         | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125    | 130                        | 135    | 140    | 145    | 150   | 155 | 160 |
| M6N1+00E   |        |        | 37     |        |        |        | 11     |        | Soil from dyke/min in c/s. |        |        |        | 1.8   |     |     |
| 1+50E      |        |        | 220    |        |        |        | 26     |        |                            |        |        |        | 21.5  |     |     |
| 2+00E      |        |        | 22     |        |        |        | 09     |        | Gr/B' st/sd                |        |        |        | 0.8   |     |     |
| 2+50E      |        |        | 19     |        |        |        | 10     |        |                            |        |        |        | 14.0  |     |     |
| 3+00E      |        |        | 12     |        |        |        | 09     |        |                            |        |        |        | 12.5  |     |     |
| 3+50E      |        |        | 19     |        |        |        | 14     |        |                            |        |        |        | 9.0   |     |     |
| 4+00E      |        |        | 15     |        |        |        | 11     |        |                            |        |        |        | 3.4   |     |     |
| 4+50E      |        |        | 13     |        |        |        | 11     |        |                            |        |        |        | 1.8   |     |     |
| 5+00E      |        |        | 22     |        |        |        | 19     |        |                            |        |        |        | 1.8   |     |     |
| 0+50W      |        |        | 12     |        |        |        | 08     |        |                            |        |        |        | 0.8   |     |     |
| 1+50W      |        |        | 9      |        |        |        | 07     |        | Eskel                      |        |        |        | 1.8   |     |     |
| 2+00W      |        |        | 16     |        |        |        | 09     |        |                            |        |        |        | 1.8   |     |     |
| 2+50W      |        |        | 26     |        |        |        | 10     |        | root to swamp              |        |        |        | 4.0   |     |     |
| 3+00W      |        |        | 17     |        |        |        | 09     |        | Edge of swamp              |        |        |        | 5.0   |     |     |
| 3+50W      |        |        | 27     |        |        |        | 13     |        | Patches TALS               |        |        |        | 5.5   |     |     |
| 4+00W      |        |        | 12     |        |        |        | 09     |        |                            |        |        |        | 1.8   |     |     |
| 4+50W      |        |        | 17     |        |        |        | 09     |        |                            |        |        |        | 2.3   |     |     |
| M6N5+00W   |        |        | 12     |        |        |        | 10     |        |                            |        |        |        | 2.8   |     |     |
| M7N5+00W   |        |        | 70     |        |        |        | 29     |        | Mixed TALS & B' req soil   |        |        | 122.0  |       |     |     |
| 4+50W      |        |        | 20     |        |        |        | 12     |        |                            |        |        |        | 8.0   |     |     |
| 4+00W      |        |        | 15     |        |        |        | 14     |        |                            |        |        |        | 11.5  |     |     |
| 3+50W      |        |        | 13     |        |        |        | 10     |        |                            |        |        |        | 1.8   |     |     |
| 3+00W      |        |        | 10     |        |        |        | 09     |        |                            |        |        |        | 4.5   |     |     |
| 2+50W      |        |        | 34     |        |        |        | 11     |        | Silt Sample                |        |        | 218.0  |       |     |     |
| 2+00W      |        |        | 9      |        |        |        | 06     |        | Eskel                      |        |        | 1.8    |       |     |     |
| 1+50W      |        |        | 17     |        |        |        | 10     |        |                            |        |        |        | 2.8   |     |     |
| 1+00W      |        |        | 18     |        |        |        | 12     |        |                            |        |        |        | 5.0   |     |     |
| 0+50W      |        |        | 9      |        |        |        | 06     |        | Edge of Lake               |        |        | 1.3    |       |     |     |
| M7N0+00    |        |        | 13     |        |        |        | 0.8    |        | Gr/B' st/sd                |        |        | 1.3    |       |     |     |

*[Handwritten signature]*

PROJECT No. \_\_\_\_\_

MIN-EN Laboratories Ltd.

DATE: July 13

ATTENTION: **J. Kerr**

705 WEST 15th ST. NORTH VANCOUVER, B.C. V7M 1T2  
PHONE 16041 980-5814

1978.

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb | As ppm                             | Mn ppm | Au ppb | U PPM |     |     |     |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------------------|--------|--------|-------|-----|-----|-----|
| 61            | 86     | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125    | 130                                | 135    | 140    | 145   | 150 | 155 | 160 |
| M7N0+50E      |        |        | 295    |        |        |        | 10     |        |        | Gr/Bi soil                         |        |        | 5.5   |     |     |     |
| 1+00E         |        |        | 24     |        |        |        | 04     |        |        | } soil from depression in outcrops |        |        | 1.8   |     |     |     |
| 1+50E         |        |        | 47     |        |        |        | 16     |        |        |                                    |        |        |       | 4.5 |     |     |
| 2+00E         |        |        | 22     |        |        |        | 07     |        |        | Gr/Bi soil                         |        |        | 0.3   |     |     |     |
| 2+50E         |        |        | 35     |        |        |        | 06     |        |        |                                    |        |        | 1.3   |     |     |     |
| 3+00E         |        |        | 114    |        |        |        | 20     |        |        | "                                  |        |        | 43.5  |     |     |     |
| 3+50E         |        |        | 9      |        |        |        | 06     |        |        | "                                  |        |        | 1.3   |     |     |     |
| 4+00E         |        |        | 11     |        |        |        | 07     |        |        | "                                  |        |        | 4.5   |     |     |     |
| 4+50E         |        |        | 11     |        |        |        | 07     |        |        | "                                  |        |        | 5.0   |     |     |     |
| M7N5+00E      |        |        | 25     |        |        |        | 18     |        |        | laboratory                         |        |        | 23.5  |     |     |     |
| M8N0+00       |        |        | 17     |        |        |        | 08     |        |        | Gr/Bi soil                         |        |        | 2.8   |     |     |     |
| 0+50E         |        |        | 87     |        |        |        | 17     |        |        | } soil from depression in c/c      |        |        | 1.8   |     |     |     |
| 1+00E         |        |        | 48     |        |        |        | 04     |        |        |                                    |        |        |       | 9.5 |     |     |
| 1+50E         |        |        | 62     |        |        |        | 15     |        |        |                                    |        |        | 25.0  |     |     |     |
| 2+00E         |        |        | 61     |        |        |        | 24     |        |        | Gr/Bi soil                         |        |        | 8.0   |     |     |     |
| 2+50E         |        |        | 11     |        |        |        | 03     |        |        | "                                  |        |        | 1.8   |     |     |     |
| 3+00E         |        |        | 10     |        |        |        | 04     |        |        | "                                  |        |        | 0.3   |     |     |     |
| 3+50E         |        |        | 12     |        |        |        | 07     |        |        | "                                  |        |        | 0.3   |     |     |     |
| 4+00E         |        |        | 16     |        |        |        | 10     |        |        | "                                  |        |        | 1.3   |     |     |     |
| 4+50E         |        |        | 17     |        |        |        | 11     |        |        | "                                  |        |        | 7.0   |     |     |     |
| 0+50W         |        |        | 31     |        |        |        | 07     |        |        | Edges of swamps                    |        |        | 245.0 |     |     |     |
| 1+00W         |        |        | 25     |        |        |        | 06     |        |        | E skat                             |        |        | 5.5   |     |     |     |
| 1+50W         |        |        | 32     |        |        |        | 07     |        |        | E skat                             |        |        | 7.5   |     |     |     |
| 2+00W         |        |        | 32     |        |        |        | 10     |        |        | "                                  |        |        | 0.8   |     |     |     |
| 2+50W         |        |        | 34     |        |        |        | 08     |        |        | Boulders to be                     |        |        | 3.4   |     |     |     |
| 3+00W         |        |        | 61     |        |        |        | 07     |        |        | Good soil site                     |        |        | 1.3   |     |     |     |
| 3+50W         |        |        | 18     |        |        |        | 07     |        |        | "                                  |        |        | 2.3   |     |     |     |
| 4+00W         |        |        | 15     |        |        |        | 07     |        |        | "                                  |        |        | 7.5   |     |     |     |
| 4+50W         |        |        | 76     |        |        |        | 37     |        |        | (min. conc)                        |        |        | 240.0 |     |     |     |
| M8N5+00W      |        |        | 19     |        |        |        | 11     |        |        | "                                  |        |        | 10.5  |     |     |     |

*Q. Hill*



PROJECT No. \_\_\_\_\_

MIN - EN Laboratories Ltd.

DATE: July 13

ATTENTION J. Kerr

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1978.

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb | As ppm | Mn ppm | Au ppb | U ppm |     |     |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|
| 86            | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125    | 130    | 135    | 140    | 145    | 150   | 155 | 160 |
| M9N0+00       |        |        | 14     |        |        |        | 09     |        |        |        |        |        | 1.8   |     |     |
| 0+50E         |        |        | 29     |        |        |        | 17     |        |        |        |        |        | 2.3   |     |     |
| 1+00E         |        |        | 330    |        |        |        | 37     |        |        |        |        |        | 1320  |     |     |
| 1+50E         |        |        | 740    |        |        |        | 53     |        |        |        |        |        | 55.0  |     |     |
| 2+00E         |        |        | 72     |        |        |        | 14     |        |        |        |        |        | 4.0   |     |     |
| 2+50E         |        |        | 56     |        |        |        | 08     |        |        |        |        |        | 4.0   |     |     |
| 3+00E         |        |        | 14     |        |        |        | 06     |        |        |        |        |        | 1.8   |     |     |
| 3+50E         |        |        | 39     |        |        |        | 18     |        |        |        |        |        | 39.5  |     |     |
| 4+00E         |        |        | 36     |        |        |        | 33     |        |        |        |        |        | 105.0 |     |     |
| 4+50E         |        |        | 24     |        |        |        | 14     |        |        |        |        |        | 7.5   |     |     |
| 5+00E         |        |        | 20     |        |        |        | 22     |        |        |        |        |        | 50.0  |     |     |
| 5+50E         |        |        | 9      |        |        |        | 06     |        |        |        |        |        | 4.0   |     |     |
| 6+00E         |        |        | 12     |        |        |        | 06     |        |        |        |        |        | 2.3   |     |     |
| 0+50W         |        |        | 34     |        |        |        | 13     |        |        |        |        |        | 55.0  |     |     |
| 1+00W         |        |        | 32     |        |        |        | 11     |        |        |        |        |        | 3.4   |     |     |
| 1+50W         |        |        | 22     |        |        |        | 09     |        |        |        |        |        | 12.0  |     |     |
| 2+00W         |        |        | 38     |        |        |        | 08     |        |        |        |        |        | 12.5  |     |     |
| 2+50W         |        |        | 62     |        |        |        | 12     |        |        |        |        |        | 13.5  |     |     |
| 3+00W         |        |        | 31     |        |        |        | 08     |        |        |        |        |        | 9.5   |     |     |
| 3+50W         |        |        | 72     |        |        |        | 12     |        |        |        |        |        | 37.0  |     |     |
| 4+00W         |        |        | 179    |        |        |        | 14     |        |        |        |        |        | 115.0 |     |     |
| 4+50W         |        |        | 161    |        |        |        | 24     |        |        |        |        |        | 224.0 |     |     |
| M9N5+00W      |        |        | 63     |        |        |        | 13     |        |        |        |        |        | 14.0  |     |     |
| M10N0+00      |        |        | 24     |        |        |        | 14     |        |        |        |        |        | 4.5   |     |     |
| 0+50E         |        |        | 129    |        |        |        | 21     |        |        |        |        |        | 5.5   |     |     |
| 1+00E         |        |        | 43     |        |        |        | 16     |        |        |        |        |        | 25.5  |     |     |
| 1+50E         |        |        | 695    |        |        |        | 32     |        |        |        |        |        | 6.0   |     |     |
| 2+00E         |        |        | 23     |        |        |        | 09     |        |        |        |        |        | 2.3   |     |     |
| 2+50E         |        |        | 17     |        |        |        | 08     |        |        |        |        |        | 1.8   |     |     |
| M100+00E      |        |        | 47     |        |        |        | 18     |        |        |        |        |        | 11.0  |     |     |

*Edge of swamp*  
*Boulder soil (Talus)*  
*outcrop area, soils*  
*near compression*  
*Gr/Bc 1/50*

*Edge of swamp*  
*ESK*  
*Dry Swamp (long)*  
*Talus*  
*steep slope, soil & talus*

*Edge of swamp*  
*Gr/Bc 5/100*

PROJECT No.: \_\_\_\_\_

MIN - EN Laboratories Ltd.

DATE: July 13705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 950 5814

1978.

ATTENTION: J. Kerr

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb                           | As ppm | Mn ppm | Au ppb | U PPM <sub>150</sub> |     |     |     |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------------|--------|--------|--------|----------------------|-----|-----|-----|
| 81            | 85     | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125                              | 130    | 135    | 140    | 145                  | 150 | 155 | 160 |
| M10N3+50E     |        |        | 18     |        |        |        | 08     |        | <i>Gr/Bt st/rd</i>               |        |        |        | 1.3                  |     |     |     |
| 4+00E         |        |        | 15     |        |        |        | 10     |        |                                  |        |        |        | 0.8                  |     |     |     |
| 4+50E         |        |        | 8      |        |        |        | 09     |        |                                  |        |        |        | 1.3                  |     |     |     |
| 5+00E         |        |        | 13     |        |        |        | 06     |        |                                  |        |        |        | 2.3                  |     |     |     |
| 5+50E         |        |        | 11     |        |        |        | 05     |        |                                  |        |        |        | 1.8                  |     |     |     |
| 6+00E         |        |        | 27     |        |        |        | 13     |        |                                  |        |        |        | 2.8                  |     |     |     |
| 0+50W         |        |        | 38     |        |        |        | 09     |        |                                  |        |        |        | 16.0                 |     |     |     |
| 1+00W         |        |        | 32     |        |        |        | 12     |        | <i>Esk</i>                       |        |        |        | 2.3                  |     |     |     |
| 1+50W         |        |        | 45     |        |        |        | 18     |        | <i>Esk</i>                       |        |        |        | 6.0                  |     |     |     |
| 2+00W         |        |        | 76     |        |        |        | 17     |        |                                  |        |        |        | 14.0                 |     |     |     |
| 2+50W         |        |        | 21     |        |        |        | 08     |        |                                  |        |        |        | 2.8                  |     |     |     |
| 3+00W         |        |        | 24     |        |        |        | 08     |        | <i>Boulders talus &amp; soil</i> |        |        |        | 4.0                  |     |     |     |
| 3+50W         |        |        | 67     |        |        |        | 07     |        |                                  |        |        |        | 4.5                  |     |     |     |
| 4+00W         |        |        | 33     |        |        |        | 08     |        |                                  |        |        |        | 4.5                  |     |     |     |
| 4+50W         |        |        | 32     |        |        |        | 06     |        |                                  |        |        |        | 5.0                  |     |     |     |
| M10N5+00W     |        |        | 34     |        |        |        | 08     |        |                                  |        |        |        | 4.5                  |     |     |     |
| M11N0+50E     |        |        | 62     |        |        |        | 13     |        | <i>Gr/Bt st/rd</i>               |        |        |        | 2.3                  |     |     |     |
| 1+00E         |        |        | 86     |        |        |        | 22     |        |                                  |        |        |        | 2.8                  |     |     |     |
| 1+50E         |        |        | 25     |        |        |        | 09     |        |                                  |        |        |        | 4.0                  |     |     |     |
| 2+00E         |        |        | 116    |        |        |        | 20     |        |                                  |        |        |        | 20.0                 |     |     |     |
| 2+50E         |        |        | 52     |        |        |        | 15     |        |                                  |        |        |        | 1.8                  |     |     |     |
| 3+00E         |        |        | 22     |        |        |        | 07     |        |                                  |        |        |        | 2.3                  |     |     |     |
| 3+50E         |        |        | 23     |        |        |        | 14     |        |                                  |        |        |        | 1.8                  |     |     |     |
| 4+00E         |        |        | 12     |        |        |        | 07     |        |                                  |        |        |        | 1.8                  |     |     |     |
| 4+50E         |        |        | 13     |        |        |        | 10     |        |                                  |        |        |        | 1.8                  |     |     |     |
| 5+00E         |        |        | 6      |        |        |        | 05     |        |                                  |        |        |        | 0.8                  |     |     |     |
| M11N5+50E     |        |        | 7      |        |        |        | 05     |        |                                  |        |        |        | 0.8                  |     |     |     |
| M11N0+00      |        |        | 12     |        |        |        | 12     |        | <i>Edge soil</i>                 |        |        |        | 5.5                  |     |     |     |
| 0+50W         |        |        | 13     |        |        |        | 04     |        | <i>soil &amp; shale</i>          |        |        |        | 84.0                 |     |     |     |
| M11N1+50W     |        |        | 25     |        |        |        | 07     |        | <i>Esk</i>                       |        |        |        | 3.4                  |     |     |     |

PROJECT No.:

MIN - EN Laboratories Ltd.

DATE: July 13

ATTENTION: J. Kerr

705 WEST 15th ST. NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 960-5814

1978.

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb                               | As ppm | Mn ppm | Au ppb | U ppm |     |     |     |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------------------|--------|--------|--------|-------|-----|-----|-----|
| SI            | 86     | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125                                  | 130    | 135    | 140    | 145   | 150 | 155 | 160 |
| M11N2+00W     |        |        | 27     |        |        |        | 08     |        | <i>Gr/Bx. Sediment</i>               |        |        |        | 2.3   |     |     |     |
| 2+50W         |        |        | 12     |        |        |        | 05     |        | "                                    |        |        |        | 1.8   |     |     |     |
| 3+00W         |        |        | 32     |        |        |        | 08     |        | <i>Even later Talus</i>              |        |        |        | 3.4   |     |     |     |
| 3+50W         |        |        | 30     |        |        |        | 05     |        | "                                    |        |        |        | 3.4   |     |     |     |
| 4+00W         |        |        | 28     |        |        |        | 06     |        | "                                    |        |        |        | 3.4   |     |     |     |
| 4+50W         |        |        | 63     |        |        |        | 07     |        | "                                    |        |        |        | 12.0  |     |     |     |
| M11N5+00W     |        |        | 59     |        |        |        | 06     |        | "                                    |        |        |        | 11.0  |     |     |     |
| M12N0+00      |        |        | 26     |        |        |        | 13     |        | <i>Gr/Bx. Sediment</i>               |        |        |        | 1.8   |     |     |     |
| 0+50E         |        |        | 12     |        |        |        | 05     |        | "                                    |        |        |        | 1.3   |     |     |     |
| 1+00E         |        |        | 22     |        |        |        | 07     |        | "                                    |        |        |        | 2.8   |     |     |     |
| 1+50E         |        |        | 14     |        |        |        | 06     |        | "                                    |        |        |        | 2.3   |     |     |     |
| 2+00E         |        |        | 370    |        |        |        | 148    |        | "                                    |        |        |        | 640.0 |     |     |     |
| 2+50E         |        |        | 18     |        |        |        | 07     |        | "                                    |        |        |        | 3.4   |     |     |     |
| 3+00E         |        |        | 19     |        |        |        | 12     |        | "                                    |        |        |        | 1.8   |     |     |     |
| 3+00E         |        |        | 16     |        |        |        | 10     |        | <i>(margin)</i>                      |        |        |        | 1.8   |     |     |     |
| 4+00E         |        |        | 8      |        |        |        | 03     |        | "                                    |        |        |        | 0.8   |     |     |     |
| 4+50E         |        |        | 61     |        |        |        | 18     |        | "                                    |        |        |        | 60.0  |     |     |     |
| 5+00E         |        |        | 16     |        |        |        | 08     |        | "                                    |        |        |        | 1.8   |     |     |     |
| 0+50W         |        |        | 19     |        |        |        | 07     |        | <i>Organic soil swamp</i>            |        |        |        | 105.0 |     |     |     |
| 1+00W         |        |        | 20     |        |        |        | 06     |        | <i>ESKEL</i>                         |        |        |        | 6.5   |     |     |     |
| 1+50W         |        |        | 26     |        |        |        | 09     |        | <i>ESKEL</i>                         |        |        |        | 4.0   |     |     |     |
| 2+00W         |        |        | 29     |        |        |        | 08     |        | <i>Swampy rainforest</i>             |        |        |        | 2.3   |     |     |     |
| 2+50W         |        |        | 16     |        |        |        | 05     |        | <i>Steep Talus slope</i>             |        |        |        | 2.3   |     |     |     |
| 3+00W         |        |        | 18     |        |        |        | 08     |        | "                                    |        |        |        | 2.8   |     |     |     |
| 3+50W         |        |        | 36     |        |        |        | 06     |        | "                                    |        |        |        | 4.0   |     |     |     |
| 4+00W         |        |        | 53     |        |        |        | 13     |        | "                                    |        |        |        | 2.8   |     |     |     |
| 4+50W         |        |        | 18     |        |        |        | 12     |        | "                                    |        |        |        | 0.8   |     |     |     |
| M12N5+00W     |        |        | 26     |        |        |        | 07     |        | "                                    |        |        |        | 2.3   |     |     |     |
| M13N0+00      |        |        | 16     |        |        |        | 06     |        | <i>Gr/Bx. Sediment (Reddy Swamp)</i> |        |        |        | 1.3   |     |     |     |
| M13N0+50E     |        |        | 36     |        |        |        | 07     |        | "                                    |        |        |        | 2.3   |     |     |     |

*DMG*

PROJECT No. \_\_\_\_\_

MIN - EN Laboratories Ltd.

DATE: July 13

ATTENTION: J. Kerr

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 280 5814

1978.

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb | As ppm | Mn ppm | Au ppb | U PPM |     |     |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|
| 6             | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70    | 75  | 80  |
| 85            | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125    | 130    | 135    | 140    | 145    | 50    | 155 | 160 |
| M13N1+00E     |        |        | 19     |        |        |        | 07     |        |        |        |        |        | 1.3   |     |     |
| 1+50E         |        |        | 73     |        |        |        | 04     |        |        |        |        |        | 1.3   |     |     |
| 2+00E         |        |        | 125    |        |        |        | 09     |        |        |        |        |        | 4.0   |     |     |
| 2+50E         |        |        | 39     |        |        |        | 11     |        |        |        |        |        | 0.8   |     |     |
| 3+00E         |        |        | 11     |        |        |        | 05     |        |        |        |        |        | 0.3   |     |     |
| 3+50E         |        |        | 13     |        |        |        | 06     |        |        |        |        |        | 1.3   |     |     |
| 4+00E         |        |        | 21     |        |        |        | 09     |        |        |        |        |        | 1.3   |     |     |
| 4+50E         |        |        | 28     |        |        |        | 13     |        |        |        |        |        | 1.3   |     |     |
| 5+00E         |        |        | 17     |        |        |        | 09     |        |        |        |        |        | 0.8   |     |     |
| 5+50E         |        |        | 17     |        |        |        | 08     |        |        |        |        |        | 0.8   |     |     |
| 0+50W         |        |        | 28     |        |        |        | 09     |        |        |        |        |        | 5.0   |     |     |
| 1+00W         |        |        | 41     |        |        |        | 10     |        |        |        |        |        | 6.0   |     |     |
| 2+00W         |        |        | 36     |        |        |        | 07     |        |        |        |        |        | 5.5   |     |     |
| 2+50W         |        |        | 22     |        |        |        | 05     |        |        |        |        |        | 2.3   |     |     |
| 3+00W         |        |        | 17     |        |        |        | 05     |        |        |        |        |        | 7.0   |     |     |
| 3+50W         |        |        | 21     |        |        |        | 08     |        |        |        |        |        | 11.5  |     |     |
| 4+00W         |        |        | 11     |        |        |        | 03     |        |        |        |        |        | 4.5   |     |     |
| 4+50W         |        |        | 32     |        |        |        | 11     |        |        |        |        |        | 24.0  |     |     |
| M13N5+00W     |        |        | 27     |        |        |        | 11     |        |        |        |        |        | 2.8   |     |     |
| M14N0+00      |        |        | 37     |        |        |        | 08     |        |        |        |        |        | 4.5   |     |     |
| 0+50E         |        |        | 12     |        |        |        | 06     |        |        |        |        |        | 1.3   |     |     |
| 1+00E         |        |        | 42     |        |        |        | 17     |        |        |        |        |        | 18.0  |     |     |
| 1+50E         |        |        | 42     |        |        |        | 05     |        |        |        |        |        | 2.3   |     |     |
| 2+00E         |        |        | 42     |        |        |        | 08     |        |        |        |        |        | 2.8   |     |     |
| 2+50E         |        |        | 41     |        |        |        | 09     |        |        |        |        |        | 5.5   |     |     |
| 3+00E         |        |        | 13     |        |        |        | 05     |        |        |        |        |        | 1.3   |     |     |
| 3+50E         |        |        | 13     |        |        |        | 05     |        |        |        |        |        | 1.3   |     |     |
| 4+00E         |        |        | 24     |        |        |        | 08     |        |        |        |        |        | 1.8   |     |     |
| 4+50E         |        |        | 19     |        |        |        | 1.0    |        |        |        |        |        | 0.8   |     |     |
| M14N5+00E     |        |        | 23     |        |        |        | 1.0    |        |        |        |        |        | 1.8   |     |     |

*Gr. / Br. Sil / St.*

*F.S.K. / F.S.K. / Combined soil / Sil / Br. / Tetus*

*cl. mio - salt from cl.*

*Gr. / Br. Sil / St.*

*[Signature]*

PROJECT No. \_\_\_\_\_

MIN - EN Laboratories Ltd.

DATE: July 13

705 WEST 15TH ST. NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1978.

ATTENTION: J. Kerr

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb | As ppm                     | Mn ppm | Au ppb | U ppm |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------|--------|--------|-------|
| M14N1+00W     |        |        | 15     |        |        |        | 08     |        |        | Organic soil swampy        |        |        | 22.5  |
| 1+50W         |        |        | 81     |        |        |        | 18     |        |        |                            |        |        | 265.0 |
| 2+00W         |        |        | 51     |        |        |        | 08     |        |        |                            |        |        | 4.5   |
| 2+50W         |        |        | 44     |        |        |        | 06     |        |        | Facility "E" Heavy Sd/Slr  |        |        | 4.5   |
| 3+00W         |        |        | 24     |        |        |        | 05     |        |        |                            |        |        | 4.0   |
| 3+50W         |        |        | 48     |        |        |        | 07     |        |        |                            |        |        | 5.5   |
| 4+00W         |        |        | 31     |        |        |        | 06     |        |        |                            |        |        | 13.5  |
| 4+50W         |        |        | 75     |        |        |        | 09     |        |        |                            |        |        | 60.0  |
| M14N5+00W     |        |        | 37     |        |        |        | 09     |        |        |                            |        |        | 2.8   |
| M15N0+00      |        |        | 18     |        |        |        | 06     |        |        | Edge of swamp              |        |        | 1.8   |
| 0+50E         |        |        | 26     |        |        |        | 11     |        |        | Boulder Sd/Slr             |        |        | 10.5  |
| 1+00E         |        |        | 32     |        |        |        | 10     |        |        |                            |        |        | 5.5   |
| 1+50E         |        |        | 24     |        |        |        | 07     |        |        |                            |        |        | 2.8   |
| 2+00E         |        |        | 19     |        |        |        | 06     |        |        |                            |        |        | 2.3   |
| 2+50E         |        |        | 65     |        |        |        | 10     |        |        |                            |        |        | 6.5   |
| 3+00E         |        |        | 19     |        |        |        | 05     |        |        |                            |        |        | 1.3   |
| 3+50E         |        |        | 25     |        |        |        | 04     |        |        |                            |        |        | 1.8   |
| 4+00E         |        |        | 33     |        |        |        | 19     |        |        |                            |        |        | 10.5  |
| 4+50E         |        |        | 12     |        |        |        | 04     |        |        |                            |        |        | 1.8   |
| 5+00E         |        |        | 15     |        |        |        | 06     |        |        |                            |        |        | 2.3   |
| 0+50W         |        |        | 448    |        |        |        | 22     |        |        | Edge of swamp (long exp)   |        |        | 320.0 |
| 1+00W         |        |        | 145    |        |        |        | 10     |        |        | Bouldery Sd/Slr + top hill |        |        | 60.0  |
| 1+50W         |        |        | 25     |        |        |        | 08     |        |        |                            |        |        | 7.0   |
| 2+00W         |        |        | 24     |        |        |        | 04     |        |        |                            |        |        | 5.5   |
| 2+50W         |        |        | 47     |        |        |        | 07     |        |        |                            |        |        | 7.5   |
| 3+00W         |        |        | 29     |        |        |        | 06     |        |        |                            |        |        | 5.0   |
| 3+50W         |        |        | 30     |        |        |        | 07     |        |        |                            |        |        | 9.0   |
| 4+00W         |        |        | 14     |        |        |        | 07     |        |        |                            |        |        | 3.4   |
| 4+50W         |        |        | 13     |        |        |        | 06     |        |        |                            |        |        | 2.3   |
| M15N5+00W     |        |        | 16     |        |        |        | 06     |        |        |                            |        |        | 2.8   |

*Dist 161*

GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No. \_\_\_\_\_

MIN - EN Laboratories Ltd.

DATE: July 13

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5514

ATTENTION: J. Kerr

1978.

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb | As ppm | Mn ppm | Au ppb | U ppm |     |     |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|
| 81            | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125    | 130    | 135    | 140    | 145    | 150   | 155 | 160 |
| M16N0+00      |        |        | 14     |        |        |        | 06     |        |        |        |        |        | 2.8   |     |     |
| 0+50E         |        |        | 14     |        |        |        | 04     |        |        |        |        |        | 1.3   |     |     |
| 1+00E         |        |        | 20     |        |        |        | 08     |        |        |        |        |        | 1.8   |     |     |
| 1+50E         |        |        | 49     |        |        |        | 15     |        |        |        |        |        | 1.8   |     |     |
| 2+00E         |        |        | 25     |        |        |        | 37     |        |        |        |        |        | 47.0  |     |     |
| 2+50E         |        |        | 18     |        |        |        | 06     |        |        |        |        |        | 1.3   |     |     |
| 3+00E         |        |        | 14     |        |        |        | 08     |        |        |        |        |        | 0.3   |     |     |
| 3+50E         |        |        | 18     |        |        |        | 10     |        |        |        |        |        | 0.8   |     |     |
| 4+00E         |        |        | 14     |        |        |        | 07     |        |        |        |        |        | 0.3   |     |     |
| 4+50E         |        |        | 19     |        |        |        | 11     |        |        |        |        |        | 0.3   |     |     |
| 1+00W         |        |        | 28     |        |        |        | 07     |        |        |        |        |        | 3.4   |     |     |
| 1+50W         |        |        | 24     |        |        |        | 07     |        |        |        |        |        | 5.5   |     |     |
| 2+00W         |        |        | 50     |        |        |        | 21     |        |        |        |        |        | 3.4   |     |     |
| 2+50W         |        |        | 53     |        |        |        | 11     |        |        |        |        |        | 4.5   |     |     |
| 3+00W         |        |        | 125    |        |        |        | 07     |        |        |        |        |        | 29.0  |     |     |
| 3+50W         |        |        | 30     |        |        |        | 07     |        |        |        |        |        | 2.3   |     |     |
| 4+00W         |        |        | 21     |        |        |        | 08     |        |        |        |        |        | 10.5  |     |     |
| 4+50W         |        |        | 20     |        |        |        | 07     |        |        |        |        |        | 12.0  |     |     |
| M16N5+00W     |        |        | 65     |        |        |        | 26     |        |        |        |        |        | 55.0  |     |     |
| M17N0+50E     |        |        | 18     |        |        |        | 05     |        |        |        |        |        | 2.3   |     |     |
| 1+00E         |        |        | 54     |        |        |        | 09     |        |        |        |        |        | 2.8   |     |     |
| 1+50E         |        |        | 22     |        |        |        | 08     |        |        |        |        |        | 0.8   |     |     |
| 2+00E         |        |        | 17     |        |        |        | 06     |        |        |        |        |        | 1.8   |     |     |
| 2+50E         |        |        | 78     |        |        |        | 11     |        |        |        |        |        | 7.5   |     |     |
| 3+00E         |        |        | 13     |        |        |        | 05     |        |        |        |        |        | 0.3   |     |     |
| 3+50E         |        |        | 12     |        |        |        | 06     |        |        |        |        |        | 0.3   |     |     |
| 0+50W         |        |        | 49     |        |        |        | 04     |        |        |        |        |        | 9.5   |     |     |
| 1+00W         |        |        | 66     |        |        |        | 09     |        |        |        |        |        | 6.0   |     |     |
| 1+50W         |        |        | 74     |        |        |        | 08     |        |        |        |        |        | 7.5   |     |     |
| M17N2+00W     |        |        | 50     |        |        |        | 05     |        |        |        |        |        | 8.0   |     |     |

*Sample 3rd REVISE  
C/L/B 5/1/81*

*(corrected sample) 47.0*

*Edge of sample  
Steps edge to last end  
(S/L/B)*

*C/L/B 5/1/81*

*Edge of sample  
C/L/B 5/1/81*

*Q. Kerr*

## GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.:

MIN-EN Laboratories Ltd.

DATE: July 13

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T7

1978.

PHONE (604) 980 5814

ATTENTION: J. Kerr

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb | As ppm | Mn ppm | Au ppb | U ppm |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| M17N2+50W     |        |        | 6.8    |        |        |        | 0.6    |        |        |        |        |        | 5.0   |
| 3+00W         |        |        | 3.9    |        |        |        | 0.6    |        |        |        |        |        | 5.0   |
| 3+50W         |        |        | 4.6    |        |        |        | 0.4    |        |        |        |        |        | 10.0  |
| 4+00W         |        |        | 3.8    |        |        |        | 1.1    |        |        |        |        |        | 14.5  |
| 4+50W         |        |        | 3.9    |        |        |        | 0.8    |        |        |        |        |        | 4.5   |
| M17N5+00W     |        |        | 1.2    |        |        |        | 0.7    |        |        |        |        |        | 4.0   |
| M0-5+00W      |        |        | 5.4    |        |        |        | 1.9    |        |        |        |        |        | 142.0 |
| 4+50W         |        |        | 2.1    |        |        |        | 0.8    |        |        |        |        |        | 4.5   |
| 4+00W         |        |        | 1.8    |        |        |        | 0.3    |        |        |        |        |        | 2.8   |
| 3+50W         |        |        | 4.2    |        |        |        | 0.9    |        |        |        |        |        | 12.5  |
| 3+00W         |        |        | 2.9    |        |        |        | 1.3    |        |        |        |        |        | 16.0  |
| 2+50W         |        |        | 1.9    |        |        |        | 1.3    |        |        |        |        |        | 19.0  |
| 2+00W         |        |        | 2.0    |        |        |        | 0.8    |        |        |        |        |        | 1.8   |
| 0+50W         |        |        | 2.1    |        |        |        | 1.8    |        |        |        |        |        | 13.0  |
| 0+00          |        |        | 2.2    |        |        |        | 1.2    |        |        |        |        |        | 1.8   |
| 0+50E         |        |        | 1.4    |        |        |        | 0.6    |        |        |        |        |        | 3.4   |
| 1+00E         |        |        | 1.6    |        |        |        | 1.0    |        |        |        |        |        | 3.4   |
| 1+50E         |        |        | 1.4    |        |        |        | 0.9    |        |        |        |        |        | 1.3   |
| 2+00E         |        |        | 3.4    |        |        |        | 1.2    |        |        |        |        |        | 650.0 |
| 2+50E         |        |        | 1.6    |        |        |        | 0.7    |        |        |        |        |        | 135.0 |
| 3+50E         |        |        | 1.0    |        |        |        | 0.5    |        |        |        |        |        | 5.5   |
| M0-4+00E      |        |        | 2.8    |        |        |        | 0.9    |        |        |        |        |        | 105.0 |

D. Kelly

GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.:

MIN-EN Laboratories Ltd.

DATE: July 20

ATTENTION: J. Kerr

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 930-5814

1978.

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm                              | Hg ppb | As ppm | Mn ppm | Au ppb | U ppm |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------------------------------------|--------|--------|--------|--------|-------|
| 86            | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125                                 | 130    | 135    | 140    | 145    | 150   |
| M200000       |        |        | 45     |        |        |        | 19     | Gilbe soil                          |        |        |        |        | 105.0 |
| 0+50E         |        |        | 52     |        |        |        | 17     |                                     |        |        |        |        | 16.5  |
| 1+00E         |        |        | 26     |        |        |        | 07     |                                     |        |        |        |        | 2.3   |
| 1+50E         |        |        | 25     |        |        |        | 12     |                                     |        |        |        |        | 2.3   |
| 2+00E         |        |        | 25     |        |        |        | 11     |                                     |        |        |        |        | 1.8   |
| 2+50E         |        |        | 88     |        |        |        | 23     |                                     |        |        |        |        | 8.5   |
| 3+00E         |        |        | 60     |        |        |        | 23     | Boulders <del>soil</del> Gilbe soil |        |        |        |        | 4.0   |
| 3+50E         |        |        | 61     |        |        |        | 21     | Swampy organic soil                 |        |        |        |        | 1.8   |
| 4+00E         |        |        | 114    |        |        |        | 28     | Boulders Gilbe soil                 |        |        |        |        | 9.5   |
| 4+50E         |        |        | 75     |        |        |        | 07     | Gilbe soil                          |        |        |        |        | 5.0   |
| 5+00E         |        |        | 41     |        |        |        | 10     | c/o water Gilbe soil                |        |        |        |        | 2.3   |
| 5+50E         |        |        | 46     |        |        |        | 08     |                                     |        |        |        |        | 1.8   |
| 0+50W         |        |        | 82     |        |        |        | 33     | Gilbe soil                          |        |        |        |        | 175.0 |
| 1+00W         |        |        | 68     |        |        |        | 18     |                                     |        |        |        |        | 26.0  |
| 1+50W         |        |        | 58     |        |        |        | 33     |                                     |        |        |        |        | 135.0 |
| 2+00W         |        |        | 104    |        |        |        | 37     |                                     |        |        |        |        | 95.0  |
| 2+50W         |        |        | 33     |        |        |        | 08     |                                     |        |        |        |        | 6.0   |
| 3+00W         |        |        | 26     |        |        |        | 07     | Boulders Talus strip                |        |        |        |        | 12.5  |
| 3+50W         |        |        | 35     |        |        |        | 14     | Swampy organic soil                 |        |        |        |        | 19.5  |
| 4+00W         |        |        | 22     |        |        |        | 10     | Talus                               |        |        |        |        | 6.5   |
| MON4+50W      |        |        | 21     |        |        |        | 10     |                                     |        |        |        |        | 4.0   |
| M2N1+00E      |        |        | 16     |        |        |        | 08     | Edge of Swamp                       |        |        |        |        | 6.0   |
| 1+50E         |        |        | 30     |        |        |        | 10     | Gilbe soil                          |        |        |        |        | 34.0  |
| 2+00E         |        |        | 38     |        |        |        | 20     | Dry Swampy poor org soil            |        |        |        |        | 155.0 |
| 2+50E         |        |        | 20     |        |        |        | 25     |                                     |        |        |        |        | 255.0 |
| 3+00E         |        |        | 20     |        |        |        | 08     |                                     |        |        |        |        | 7.0   |
| 3+50E         |        |        | 20     |        |        |        | 05     | Gilbe soil                          |        |        |        |        | 2.8   |
| 4+00E         |        |        | 45     |        |        |        | 16     |                                     |        |        |        |        | 15.5  |
| 4+50E         |        |        | 17     |        |        |        | 05     |                                     |        |        |        |        | 2.8   |
| M2N5+00E      |        |        | 20     |        |        |        | 10     |                                     |        |        |        |        | 1.8   |

W. Kerr



PROJECT No. \_\_\_\_\_

MIN - EN Laboratories Ltd.

DATE: July 20

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T7  
PHONE (604) 980-5814

ATTENTION: J. Kerr

1978

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb | As ppm                     | Mn ppm | Au ppb | U ppm |     |     |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------|--------|--------|-------|-----|-----|
| 81            | 86     | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125    | 130                        | 135    | 140    | 145   | 150 | 160 |
| M2N5+50E      |        |        | 97     |        |        |        | 14     |        |        | C.C./B.C. sd/51            |        |        | 13.0  |     |     |
| 6+00E         |        |        | 95     |        |        |        | 21     |        |        |                            |        |        | 7.5   |     |     |
| 6+50E         |        |        | 19     |        |        |        | 09     |        |        |                            |        |        | 1.8   |     |     |
| 7+00E         |        |        | 26     |        |        |        | 07     |        |        | (Edge of swamp)            |        |        | 4.0   |     |     |
| 0+00          |        |        | 14     |        |        |        | 08     |        |        |                            |        |        | 0.8   |     |     |
| 0+50W         |        |        | 44     |        |        |        | 13     |        |        | Med-Steep hill. sd & talus |        |        | 95.0  |     |     |
| 1+00W         |        |        | 66     |        |        |        | 18     |        |        |                            |        |        | 13.0  |     |     |
| 1+50W         |        |        | 19     |        |        |        | 06     |        |        |                            |        |        | 9.0   |     |     |
| 2+00W         |        |        | 19     |        |        |        | 09     |        |        |                            |        |        | 16.5  |     |     |
| 2+50W         |        |        | 28     |        |        |        | 12     |        |        |                            |        |        | 95.0  |     |     |
| 3+00W         |        |        | 46     |        |        |        | 13     |        |        |                            |        |        | 155.0 |     |     |
| 3+36W         |        |        | 93     |        |        |        | 26     |        |        |                            |        |        | 315.0 |     |     |
| 3+50W         |        |        | 27     |        |        |        | 14     |        |        |                            |        |        | 18.5  |     |     |
| 4+00W         |        |        | 40     |        |        |        | 08     |        |        |                            |        |        | 9.5   |     |     |
| 4+50W         |        |        | 86.0   |        |        |        | 52     |        |        |                            |        |        | 345.0 |     |     |
| M5N5+00W      |        |        | 58     |        |        |        | 09     |        |        |                            |        |        | 6.5   |     |     |
| M3N0+00BL     |        |        | 46     |        |        |        | 11     |        |        | No Notes                   |        |        | 12.5  |     |     |
| 0+50E         |        |        | 20     |        |        |        | 11     |        |        |                            |        |        | 9.5   |     |     |
| 1+00E         |        |        | 16     |        |        |        | 08     |        |        |                            |        |        | 5.0   |     |     |
| 1+50E         |        |        | 33     |        |        |        | 14     |        |        |                            |        |        | 4.0   |     |     |
| 2+00E         |        |        | 16     |        |        |        | 10     |        |        |                            |        |        | 27.0  |     |     |
| 2+50E         |        |        | 34     |        |        |        | 09     |        |        |                            |        |        | 6.5   |     |     |
| 3+50E         |        |        | 38     |        |        |        | 11     |        |        |                            |        |        | 2.8   |     |     |
| 4+00E         |        |        | 56     |        |        |        | 22     |        |        |                            |        |        | 4.5   |     |     |
| 4+50E         |        |        | 22     |        |        |        | 52     |        |        |                            |        |        | 160.0 |     |     |
| 5+00E         |        |        | 16     |        |        |        | 08     |        |        |                            |        |        | 10.5  |     |     |
| 0+50W         |        |        | 32     |        |        |        | 11     |        |        | Steep Hill                 |        |        | 2.8   |     |     |
| 1+00W         |        |        | 51     |        |        |        | 49     |        |        |                            |        |        | 255.0 |     |     |
| 1+50W         |        |        | 37     |        |        |        | 10     |        |        |                            |        |        | 23.5  |     |     |
| 2+00W         |        |        | 49     |        |        |        | 12     |        |        |                            |        |        | 4.0   |     |     |

PROJECT No. \_\_\_\_\_

MIN - EN Laboratories Ltd.

DATE: July 20

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

PHONE (604) 980-5814

ATTENTION: I. Kerr1978

| Sample Number | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppb | As ppm                             | Mn ppm            | Au ppb | U ppm |     |     |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------------------|-------------------|--------|-------|-----|-----|
| 6             | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55                                 | 60                | 65     | 70    | 75  | 80  |
| 81            | 86     | 90     | 95     | 100    | 105    | 110    | 115    | 120    | 125    | 130                                | 135               | 140    | 145   | 150 | 160 |
| M3N3+00W      |        |        | 61     |        |        |        | 10     |        |        | <i>No. ozakes</i>                  | <i>steep hill</i> |        | 6.5   |     |     |
| 3+50W         |        |        | 43     |        |        |        | 06     |        |        |                                    |                   |        | 3.4   |     |     |
| 4+00W         |        |        | 358    |        |        |        | 09     |        |        |                                    |                   |        | 1.8   |     |     |
| 4+50W         |        |        | 252    |        |        |        | 06     |        |        |                                    |                   |        | 7.0   |     |     |
| 5+00W         |        |        | 568    |        |        |        | 19     |        |        |                                    |                   |        | 14.0  |     |     |
| M3N5+50W      |        |        | 57     |        |        |        | 07     |        |        |                                    |                   |        | 2.8   |     |     |
| M3N0+00E      |        |        | 19     |        |        |        | 11     |        |        |                                    |                   |        | 7.5   |     |     |
| 0+50E         |        |        | 13     |        |        |        | 04     |        |        |                                    |                   |        | 2.8   |     |     |
| 1+00E         |        |        | 42     |        |        |        | 18     |        |        |                                    |                   |        | 34.0  |     |     |
| 1+50E         |        |        | 32     |        |        |        | 06     |        |        |                                    |                   |        | 3.4   |     |     |
| 2+00E         |        |        | 36     |        |        |        | 08     |        |        |                                    |                   |        | 4.0   |     |     |
| 2+50E         |        |        | 58     |        |        |        | 15     |        |        |                                    |                   |        | 80.0  |     |     |
| 3+00E         |        |        | 29     |        |        |        | 09     |        |        |                                    |                   |        | 3.4   |     |     |
| 3+50E         |        |        | 49     |        |        |        | 13     |        |        |                                    |                   |        | 55.0  |     |     |
| 4+00E         |        |        | 42     |        |        |        | 29     |        |        |                                    |                   |        | 165.0 |     |     |
| 4+50E         |        |        | 17     |        |        |        | 07     |        |        |                                    |                   |        | 1.8   |     |     |
| 5+00E         |        |        | 18     |        |        |        | 05     |        |        |                                    |                   |        | 2.8   |     |     |
| 0+50W         |        |        | 19     |        |        |        | 09     |        |        | <i>steep hill</i>                  |                   |        | 1.8   |     |     |
| 1+00W         |        |        | 134    |        |        |        | 22     |        |        |                                    |                   |        | 235.0 |     |     |
| 1+50W         |        |        | 33     |        |        |        | 10     |        |        |                                    |                   |        | 5.0   |     |     |
| 2+00W         |        |        | 34     |        |        |        | 11     |        |        |                                    |                   |        | 3.4   |     |     |
| 2+50W         |        |        | 38     |        |        |        | 09     |        |        |                                    |                   |        | 3.4   |     |     |
| 3+00W         |        |        | 91     |        |        |        | 07     |        |        |                                    |                   |        | 4.5   |     |     |
| 3+50W         |        |        | 85     |        |        |        | 12     |        |        |                                    |                   |        | 10.5  |     |     |
| M3N4+00W      |        |        | 30     |        |        |        | 10     |        |        |                                    |                   |        | 3.4   |     |     |
| M4N0+00       |        |        | 31     |        |        |        | 08     |        |        | <i>Co./Ba Sed/Str. (minor fly)</i> |                   |        | 25.5  |     |     |
| 0+50E         |        |        | 65     |        |        |        | 29     |        |        | <i>Very organic soil swampy</i>    |                   |        | 180.0 |     |     |
| 1+00E         |        |        | 28     |        |        |        | 12     |        |        | <i>Beuldeny soil</i>               |                   |        | 100.0 |     |     |
| 1+50E         |        |        | 67     |        |        |        | 10     |        |        | <i>Co./Ba Sed/Str.</i>             |                   |        | 8.5   |     |     |
| M4N2+00E      |        |        | 59     |        |        |        | 10     |        |        |                                    |                   |        | 25.0  |     |     |







COMPANY Union Oil

GEOCHEMICAL ANALYSIS DATA SHEET

8-250R  
No. 8-272R

PROJECT No. \_\_\_\_\_

MIN - EN Laboratories Ltd.

*Lab Re-runs*  
*Graben Grid*

DATE: Sept. 6,  
1978.

ATTENTION: Mr. Gidluck, J. Kerr

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE: 504-980-5514

| Sample Number | 6   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  | 55  | 60  | 65       | 70                        | 75     | 79  | 84  |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|---------------------------|--------|-----|-----|
|               | As  | Fe  | Pb  | Zn  | Ni  | Co  | Ag  | Fe  | Hg  | As  | Mn  | Au  | Normal U | Partial Carbonate Leach U |        |     |     |
|               | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppb | ppm      | ppm                       | ppm    | ppm | ppm |
| MCL6+00N2+60W |     |     |     |     |     |     |     |     |     |     |     |     |          | 175.0                     | 110.0  |     |     |
| 2+75W         |     |     |     |     |     |     |     |     |     |     |     |     |          | 165.0                     | 90.0   |     |     |
| 2+85W         |     |     |     |     |     |     |     |     |     |     |     |     |          | 145.0                     | 115.0  |     |     |
| MBL6+00N2+60W |     |     |     |     |     |     |     |     |     |     |     |     |          | 230.0                     | 130.0  |     |     |
| 2+75W         |     |     |     |     |     |     |     |     |     |     |     |     |          | 320.0                     | 205.0  |     |     |
| 2+85W         |     |     |     |     |     |     |     |     |     |     |     |     |          | 195.0                     | 140.0  |     |     |
| M3N2+50W      |     |     |     |     |     |     |     |     |     |     |     |     |          | 90.0                      | 65.0   |     |     |
| 4+00W         |     |     |     |     |     |     |     |     |     |     |     |     |          | 170.0                     | 125.0  |     |     |
| M4N3+00W      |     |     |     |     |     |     |     |     |     |     |     |     |          | 26.0                      | 12.2   |     |     |
| 3+50W         |     |     |     |     |     |     |     |     |     |     |     |     |          | 115.0                     | 1.0    |     |     |
| M5N3+00W      |     |     |     |     |     |     |     |     |     |     |     |     |          | 85.0                      | 55.0   |     |     |
| 3+50W         |     |     |     |     |     |     |     |     |     |     |     |     |          | 3050.0                    | 1650.0 |     |     |
| M6N3+00W      |     |     |     |     |     |     |     |     |     |     |     |     |          | 8.6                       | 9.2    |     |     |
| M7N5+00W      |     |     |     |     |     |     |     |     |     |     |     |     |          | 98.0                      | 90.0   |     |     |
| M6N1+50E      |     |     |     |     |     |     |     |     |     |     |     |     |          | 26.0                      | 11.6   |     |     |
| M7N2+50W      |     |     |     |     |     |     |     |     |     |     |     |     |          | 185.0                     | 175.0  |     |     |
| M9N1+00E      |     |     |     |     |     |     |     |     |     |     |     |     |          | 128.0                     | 80.0   |     |     |

*Handwritten initials*











GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST. NORTH VANCOUVER, B.C. V7M 1T2  
PHONE 404-980-5814

No. 8-272

DATE: July 25  
1978.

PROJECT No.:

ATTENTION: J. Kerr

*Radon Cirque  
Detailed Grid  
No notes*

| Sample Number      | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ni ppm | Co ppm | Ag ppm | Fe ppm | Hg ppm | As ppm | Sr ppm | Au ppt | U ppm |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| <del>MRO-25N</del> |        |        |        |        |        |        |        |        |        |        |        |        |       |
| 0+03N              |        |        | 168    |        |        |        | 19     |        |        |        |        |        | 4.0   |
| 0+06N              |        |        | 300    |        |        |        | 24     |        |        |        |        |        | 5.0   |
| 0+09N              |        |        | 618    |        |        |        | 17     |        |        |        |        |        | 4.0   |
| 0+12N              |        |        | 526    |        |        |        | 17     |        |        |        |        |        | 17.0  |
| 0+15N              |        |        | 355    |        |        |        | 11     |        |        |        |        |        | 8.0   |
| 0+18N              |        |        | 198    |        |        |        | 08     |        |        |        |        |        | 11.0  |
| 0+00               |        |        | 92     |        |        |        | 11     |        |        |        |        |        | 4.0   |
| 0+03S              |        |        | 66     |        |        |        | 17     |        |        |        |        |        | 2.8   |
| 0+06S              |        |        | 62     |        |        |        | 13     |        |        |        |        |        | 5.5   |
| 0+09S              |        |        | 178    |        |        |        | 16     |        |        |        |        |        | 6.0   |
| 0+12S              |        |        | 189    |        |        |        | 12     |        |        |        |        |        | 7.5   |
| 0+15S              |        |        | 66     |        |        |        | 04     |        |        |        |        |        | 5.5   |
| 0+18S              |        |        | 940    |        |        |        | 49     |        |        |        |        |        | 21.0  |
| 0+21S              |        |        | 152    |        |        |        | 24     |        |        |        |        |        | 13.0  |
| 0+24S              |        |        | 127    |        |        |        | 24     |        |        |        |        |        | 7.0   |
| <del>MRO-25E</del> |        |        |        |        |        |        |        |        |        |        |        |        |       |
| 0+03S              |        |        | 233    |        |        |        | 24     |        |        |        |        |        | 41.5  |
| 0+06S              |        |        | 194    |        |        |        | 11     |        |        |        |        |        | 38.0  |
| 0+09S              |        |        | 1060   |        |        |        | 68     |        |        |        |        |        | 95.0  |
| 0+12S              |        |        | 236    |        |        |        | 14     |        |        |        |        |        | 19.5  |
| 0+15S              |        |        | 415    |        |        |        | 08     |        |        |        |        |        | 11.0  |
| 0+00               |        |        | 1110   |        |        |        | 87     |        |        |        |        |        | 185.0 |
| 0+03N              |        |        | 1425   |        |        |        | 95     |        |        |        |        |        | 215.0 |
| 0+06N              |        |        | 1220   |        |        |        | 76     |        |        |        |        |        | 160.0 |
| 0+09N              |        |        | 329    |        |        |        | 17     |        |        |        |        |        | 39.5  |
| <del>MRO-25E</del> |        |        |        |        |        |        |        |        |        |        |        |        |       |
| 0+00               |        |        | 2260   |        |        |        | 102    |        |        |        |        |        | 550.0 |
| 0+03N              |        |        | 74     |        |        |        | 04     |        |        |        |        |        | 11.0  |
| 0+06N              |        |        | 178    |        |        |        | 14     |        |        |        |        |        | 9.5   |
| 0+09N              |        |        | 36     |        |        |        | 08     |        |        |        |        |        | 4.5   |
| 0+12N              |        |        | 25     |        |        |        | 07     |        |        |        |        |        | 4.5   |
| 0+15N              |        |        | 70     |        |        |        | 10     |        |        |        |        |        | 4.0   |

*Smith*





PROJECT No. \_\_\_\_\_

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 960-5514

*Radon Crystals  
Rock Chip Samples*

DATE: July 20

ATTENTION: J. Kerr

1978.

| Sample No.   | Mo  | Cu  | Pb  | Zn  | Ni  | Co  | Ag  | Fe  | Hg  | As  | Mn  | Au  | U     |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| ppm          | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm   |
| 85           | 90  | 95  | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150   |
| RC0+00       |     |     |     |     |     |     |     |     |     |     |     |     | 9.5   |
| RC0+002+00E  |     |     |     |     |     |     |     |     |     |     |     |     | 8.0   |
| RC1+00S0+75W |     |     |     |     |     |     |     |     |     |     |     |     | 19.5  |
| RC1+50S3+50W |     |     |     |     |     |     |     |     |     |     |     |     | 2.3   |
| RC3+00S3+50W |     |     |     |     |     |     |     |     |     |     |     |     | 18.5  |
| RC3+50S0+25E |     |     |     |     |     |     |     |     |     |     |     |     | 4.0   |
| RC4+00S1+00E |     |     |     |     |     |     |     |     |     |     |     |     | 4.5   |
| RGB/L4+20S   |     |     |     |     |     |     |     |     |     |     |     |     | 5.0   |
| RC5+00S1+50W |     |     |     |     |     |     |     |     |     |     |     |     | 5.5   |
| RC200S0+75E  |     |     |     |     |     |     |     |     |     |     |     |     | 4.5   |
| RC200S5+50W  |     |     |     |     |     |     |     |     |     |     |     |     | 12.0  |
| RC250S0+50W  |     |     |     |     |     |     |     |     |     |     |     |     | 5.0   |
| RC250S200E   |     |     |     |     |     |     |     |     |     |     |     |     | 13.0  |
| RC250S225W   |     |     |     |     |     |     |     |     |     |     |     |     | 14.5  |
| RC1+00S1+50W |     |     |     |     |     |     |     |     |     |     |     |     | 435.0 |
| RC1+00S1+50W |     |     |     |     |     |     |     |     |     |     |     |     | 130.0 |

*OK*

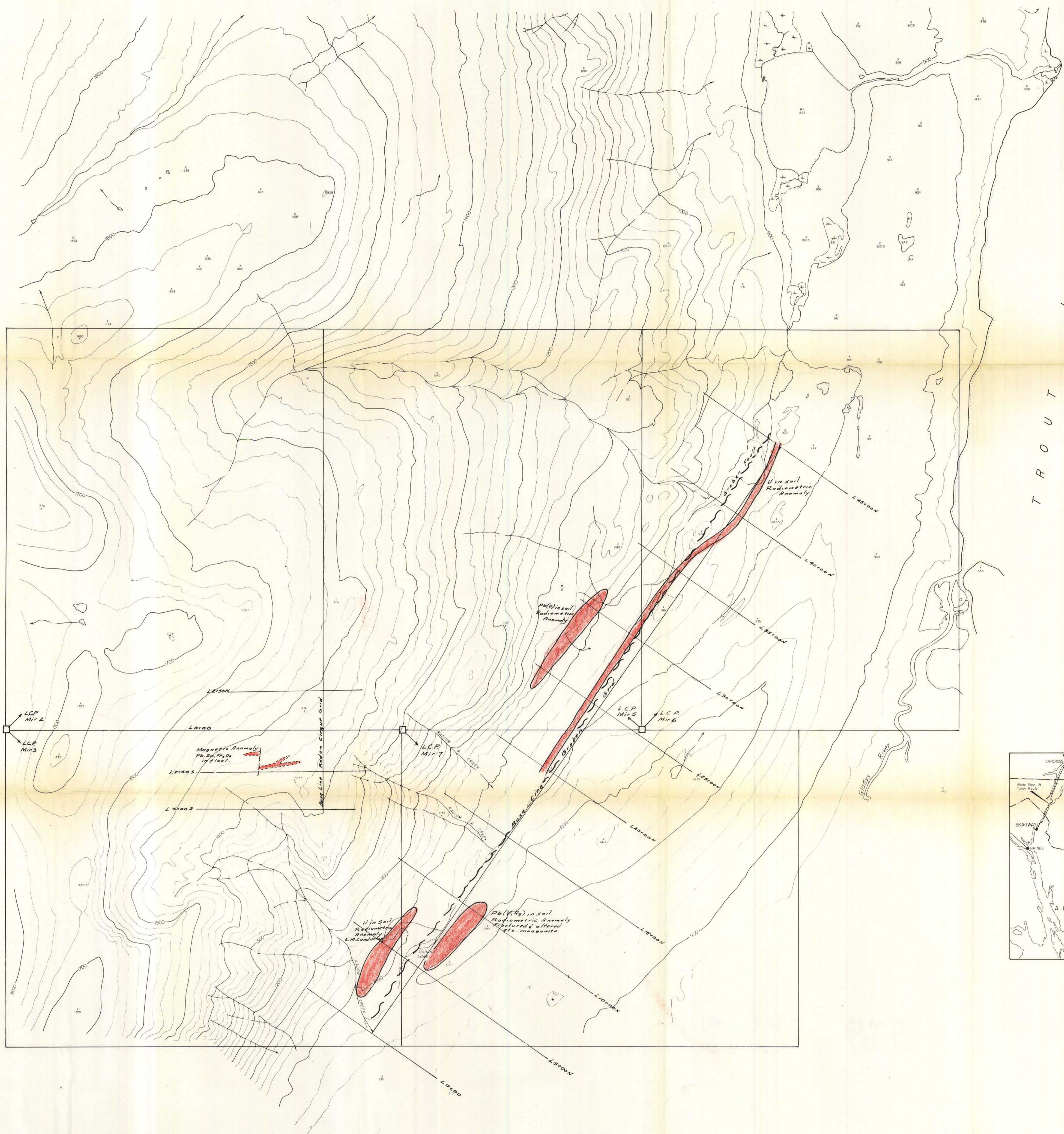
July 25, 1978.

Union Oil Co. of Canada,  
335-8th Ave. S.W.,  
Box 999,  
Calgary, Alta.  
T2P 2K6. —  
File No: 8-272

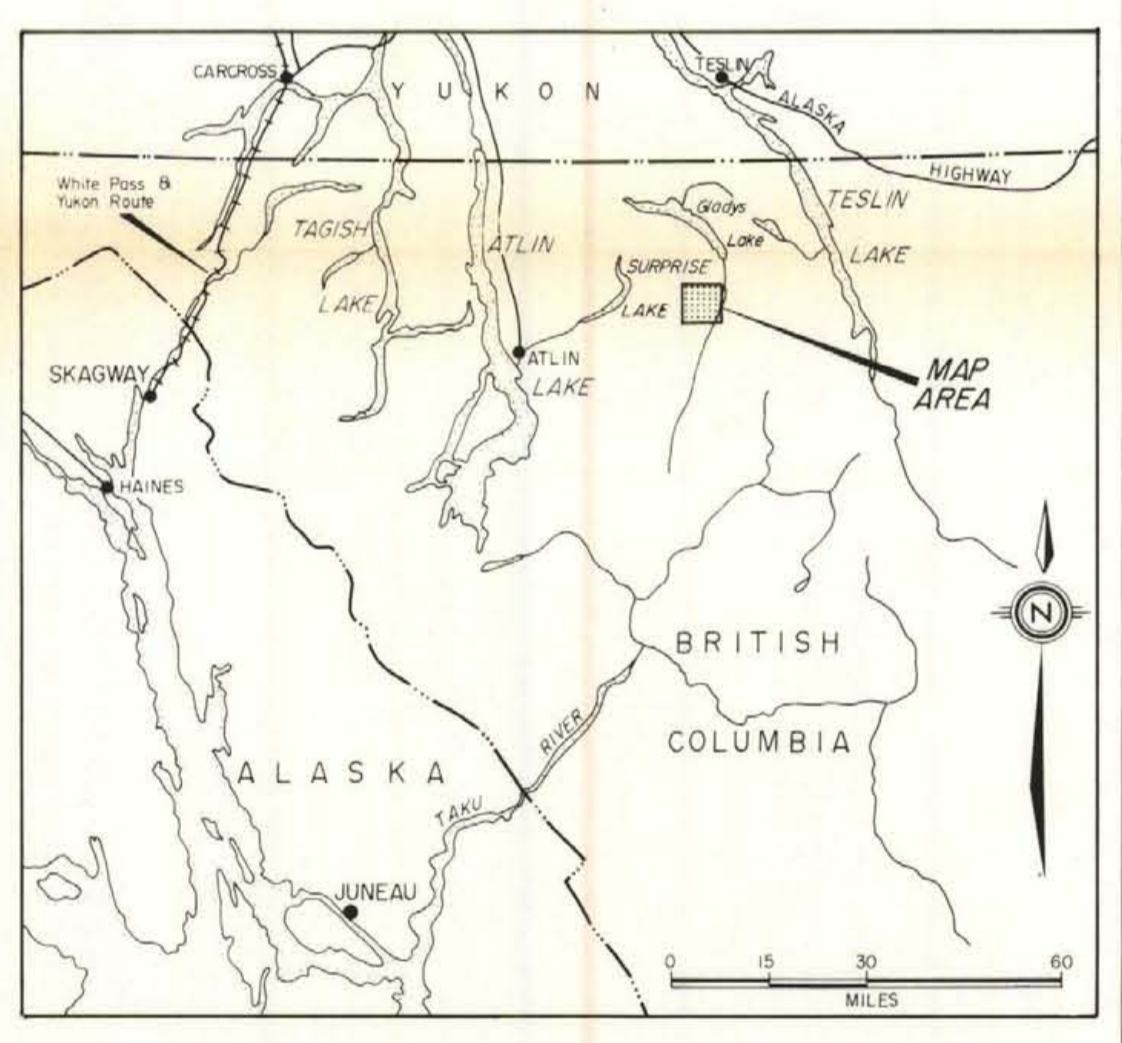
WATER SAMPLES


| <u>Sample Number</u> | <u>U</u><br><u>ppb</u> | <u>pH</u><br><u>—</u> |
|----------------------|------------------------|-----------------------|
| ✓ D-4+00E1+00S       | 0.2                    | 6.5                   |
| ✓ D6+00E0+50S        | 0.2                    | 6.5                   |
| D9+70E9+00E          | 0.2                    | 6.5                   |
| E-0+00-3-50W         | 0.5                    | 7.5                   |
| M2N2+50W             | 3.9                    | 6.7                   |
| M35N1W               | 6.8                    | 6.6                   |
| M4N3+40W             | 8.5                    | 6.7                   |
| M11N0+50W            | 10.3                   | 6.9                   |
| M40N3+15E            | 4.6                    | 7.0                   |
| M45N1+50W            | 3.1                    | 6.7                   |
| ✓ R1-14+50S          | 0.5                    | 7.0                   |
| ✓ R1-23+55S          | 0.5                    | 7.1                   |
| ✓ R1-26+84S          | 0.5                    | 7.2                   |
| ✓ R1+50S4+50W        | 1.3                    | 7.3                   |
| ✓ R2S3+35W           | 0.5                    | 7.0                   |
| ✓ R8W24+00S          | 0.5                    | 7.1                   |
| ✓ R11W16+00S         | 0.5                    | 6.9                   |
| ✓ R11W17+50W         | 0.5                    | 7.1                   |
| ✓ R11W19+30S         | 1.0                    | 6.7                   |
| ✓ R11W20+00S         | 0.5                    | 6.9                   |
| ✓ R15S13+50W         | 0.2                    | 6.6                   |
| ✓ R15W14+70S         | 0.5                    | 6.5                   |
| ✓ R15S14+50W         | 0.5                    | 6.9                   |
| ✓ R15W10+70S         | 0.1                    | 6.9                   |
| ✓ R15W11+80S         | 0.2                    | 6.8                   |
| ✓ R15W12+50S         | 0.3                    | 7.0                   |
| ✓ R18S9+50W          | 0.5                    | 6.6                   |
| ✓ R18S12+50W         | 1.0                    | 6.5                   |
| ✓ R19S8+80W          | 0.5                    | 7.1                   |
| ✓ R24S6+20W          | 0.2                    | 7.2                   |

Certified By



T R O U T L A K E  
W L 854



 Targets recommended for further exploration

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
NO. **6905**

Part 2 of 2

Contour Interval 25 metres

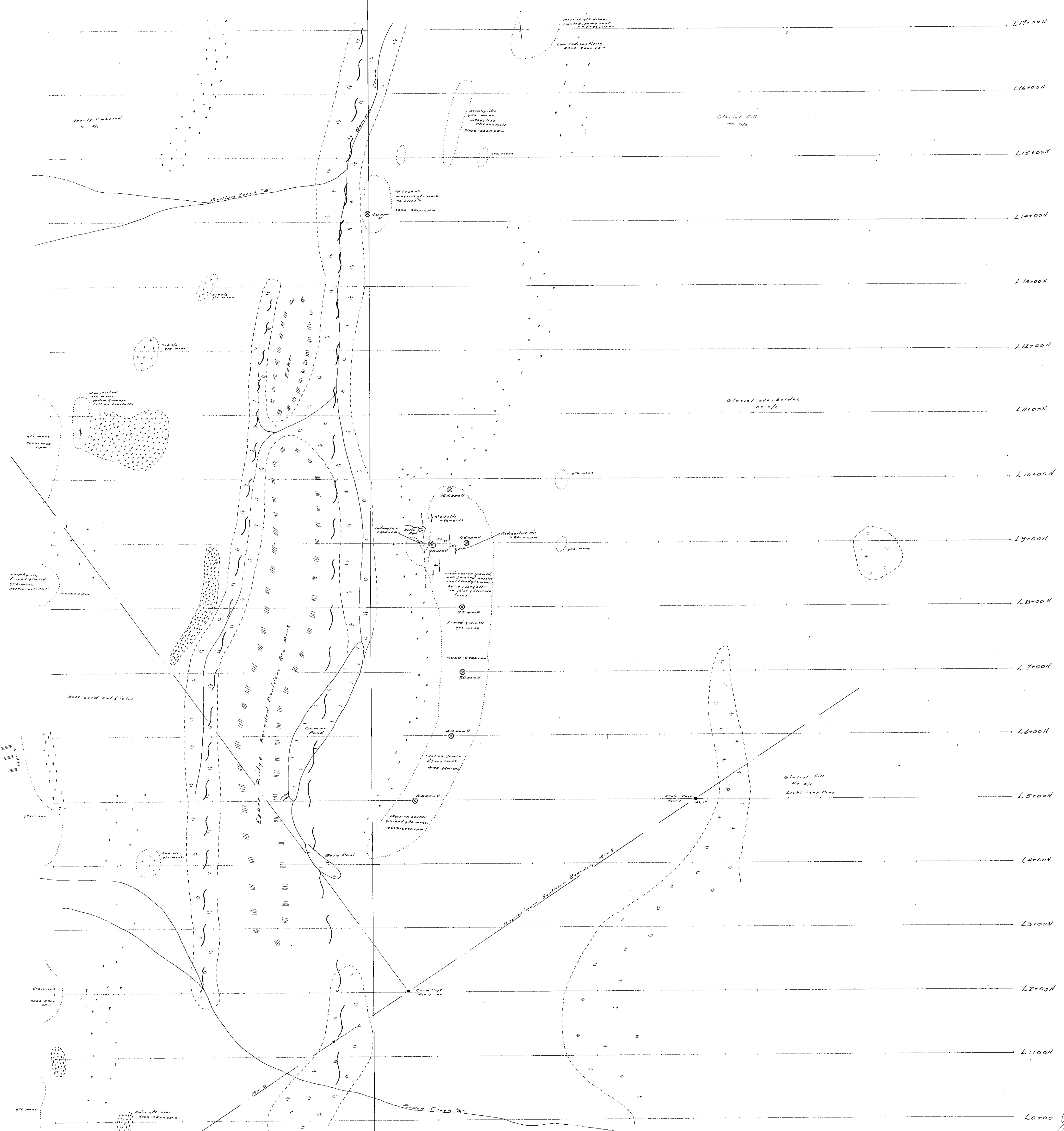
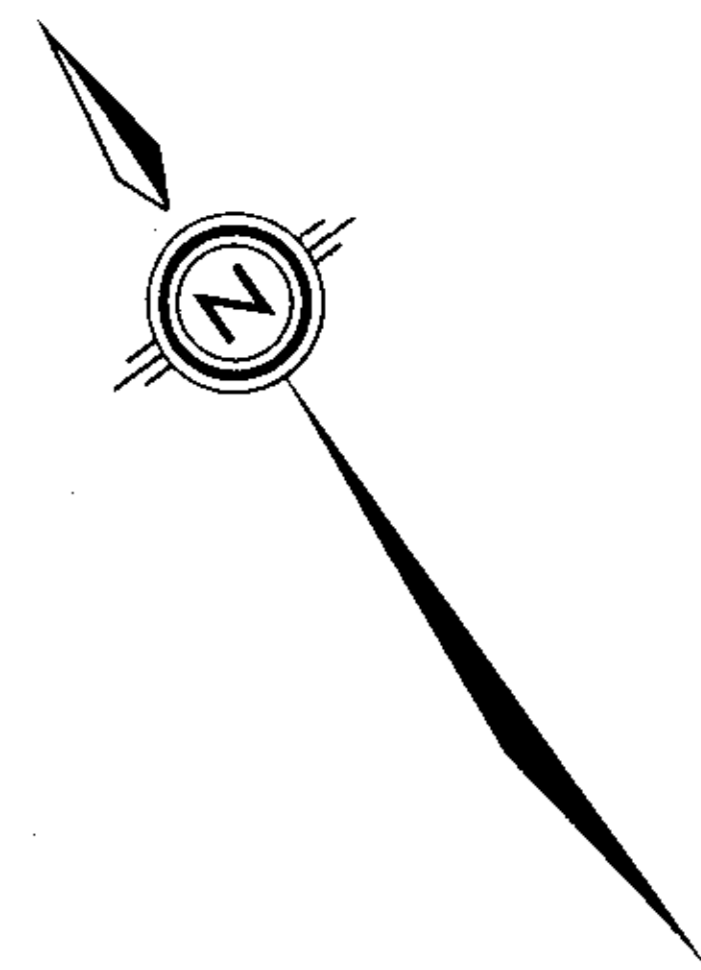
GRANVILLE SQUARE JOINT VENTURE

MIR PROPERTY  
TROUT LAKE, B.C.  
INDEX MAP  
Grid locations

1:10,000  
m 200 400 600 800  
FIG 175 A/B 2 PROJECT NO. 101A DATE SEPT. 1978 DRAWN J.R.K.



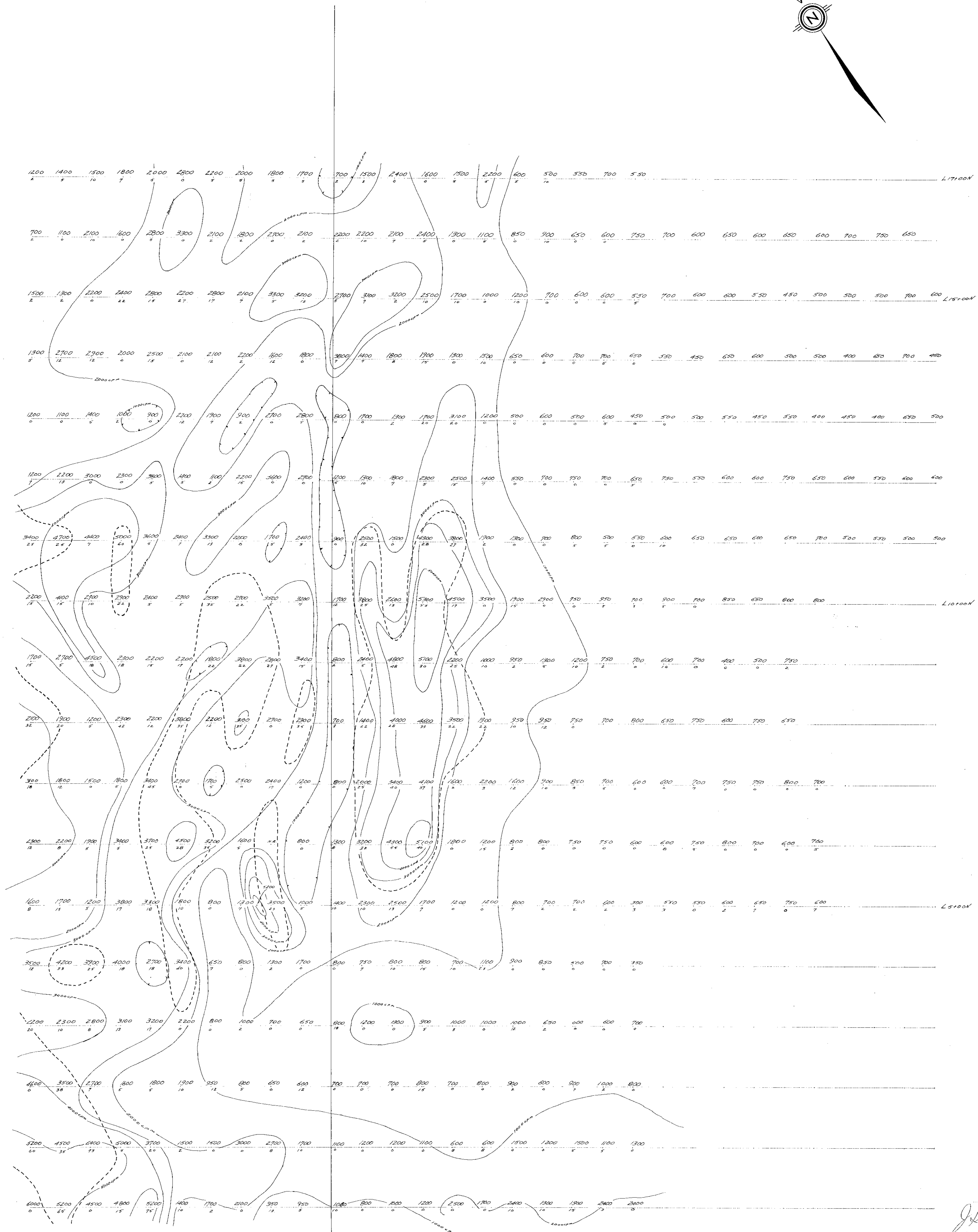
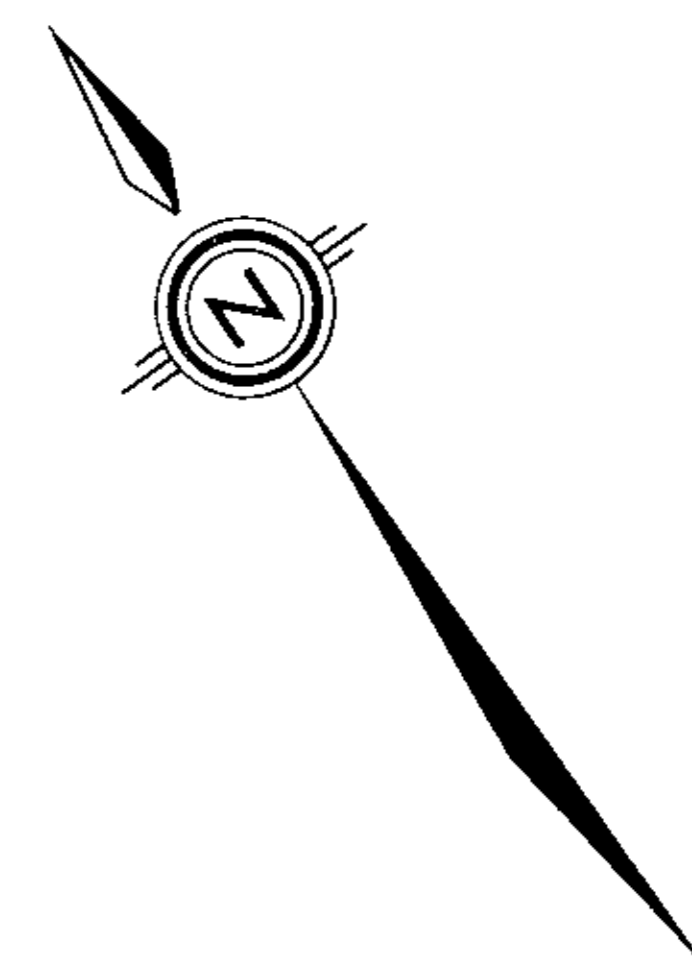




- LEGEND**
- Rock outcrop 30-50% exposure
  - Swamp
  - Escher
  - Boulders/Talus
  - Rock chip sample
  - Strike/Dip - joints & fractures
  - Claim Post & Boundary

Part 2 of 2 NO. 6905

|  |                   |
|--|-------------------|
| GRANVILLE SQUARE JOINT VENTURE                 |                   |
| MIR CLAIMS - GRABEN AREA                       |                   |
| GEOLOGICAL PLAN                                |                   |
| TOPOGRAPHIC FEATURES                           |                   |
| Scale Work by: Ken, Dawson and Associates Ltd. | SCALE: 1:25000    |
| Drawn by: W.G. J. J. J.                        | Date: 1981        |
| Reviewed by: J.P.K.                            | Sheet No. 175-B-3 |

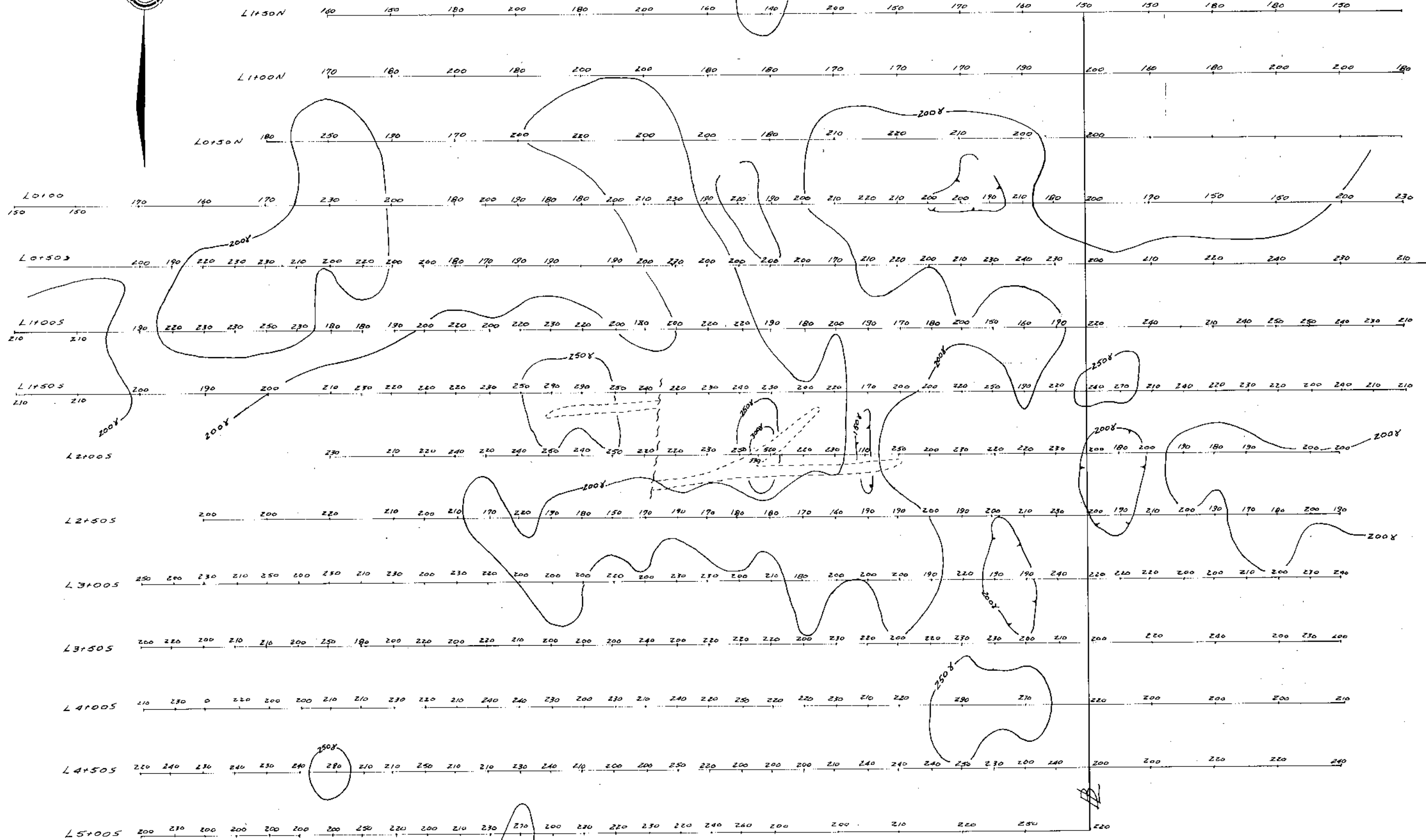
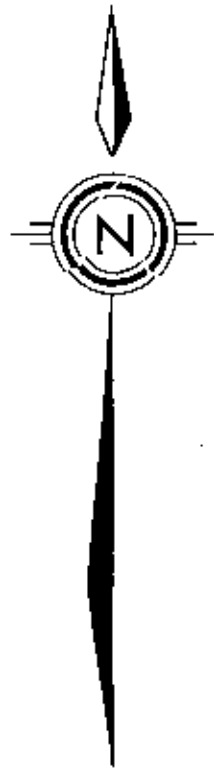


Part 2 of 2

MINERAL  
K  
6905  
NO

LEGEND  
○ Total Count  
Contour Interval: 1000 cpm  
○ Residual Uranium Count  
20 cpm contour

GRANVILLE SQUARE JOINT VENTURE  
MIR CLAIMS - GRABEN AREA  
RADIOMETRIC PLAN  
Total count of Residual Uranium  
Mc Phar TV-1  
Scale: 1:2000  
Date: Sept 1978  
Drawn by: J.K.C.  
Checked by: J.K.C.



Contour Interval - 50 $\gamma$

--- Interpreted Magnetic Anomaly

Part 2 of 2

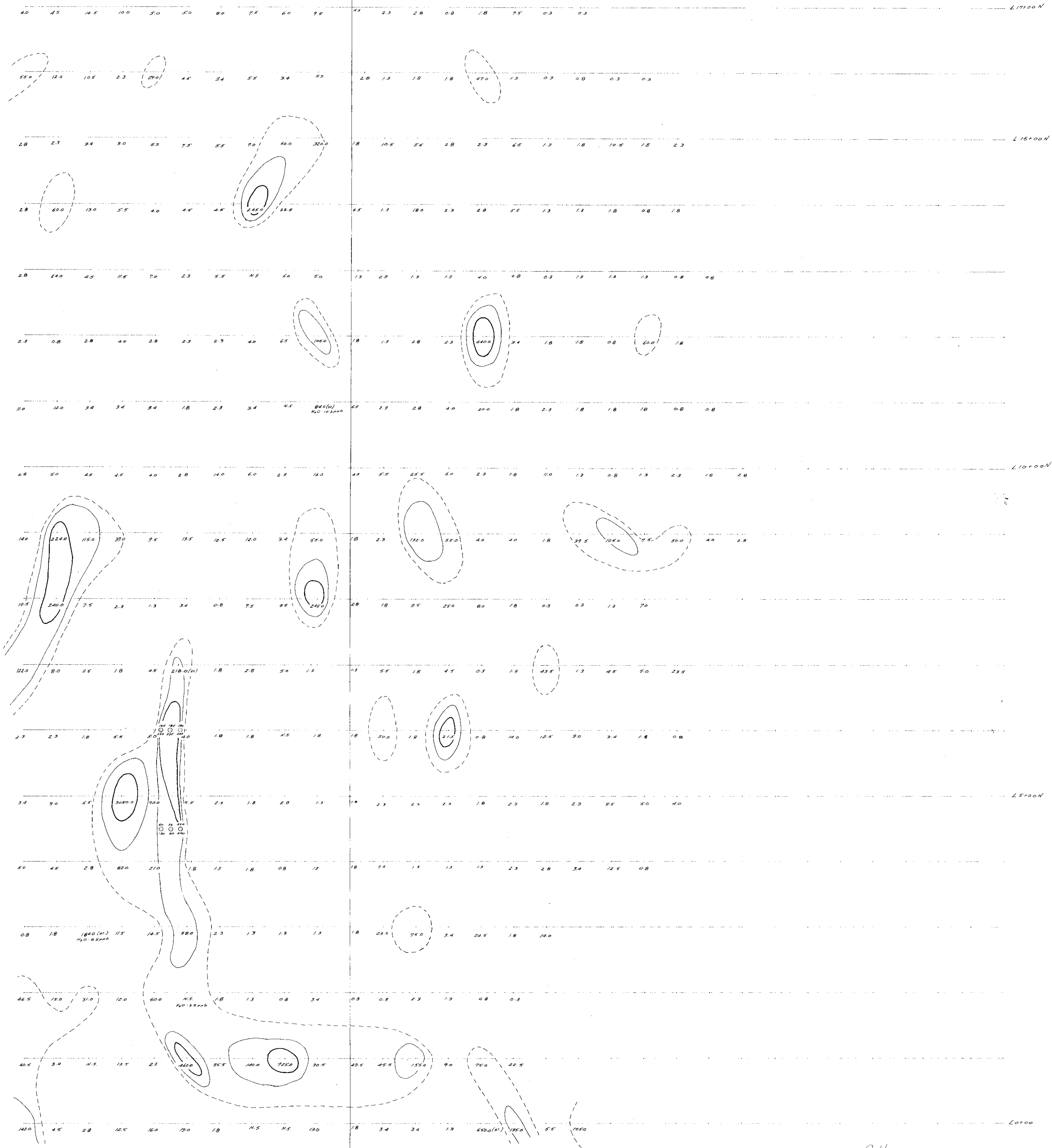
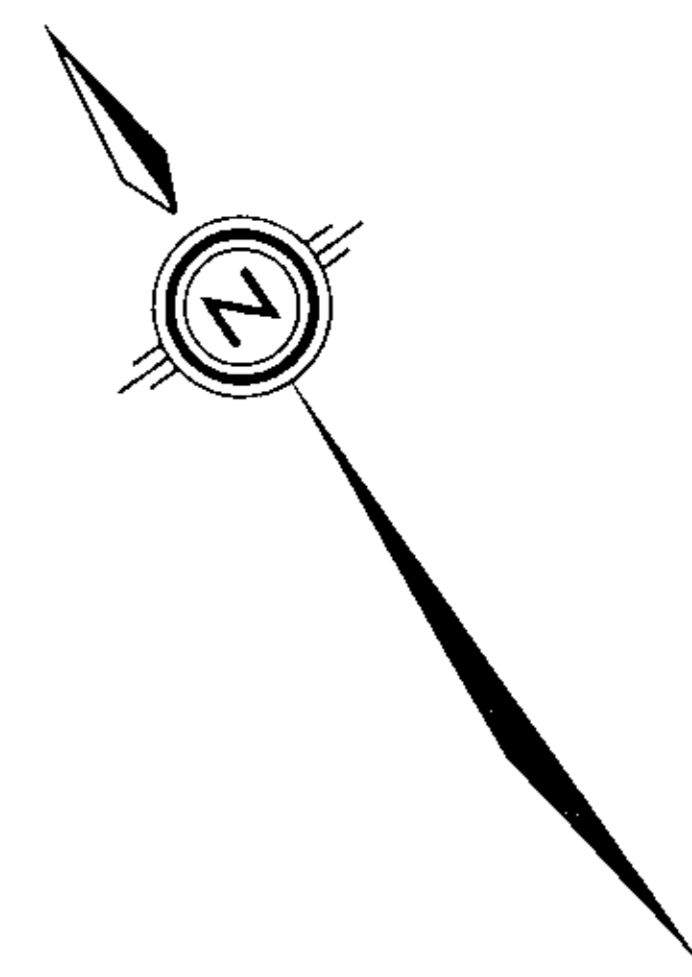
6906

GRANVILLE SQUARE JOINT VENTURE

MIR CLAIMS - RADON CIRQUE AREA  
MAGNETIC PLAN

Mc Phar 700 Magnetometer

|  |                              |
|--|------------------------------|
| Tech Work by: Kerr, Dawson & Associates Ltd. | Scale: 1:2000 0m 20 50m 100m |
| Drawn by: J.R.K.                             | Date: Sept, 1978.            |
| Approved by: J.R. Kerr, P.Eng.               | Fig No. 175 A 5              |



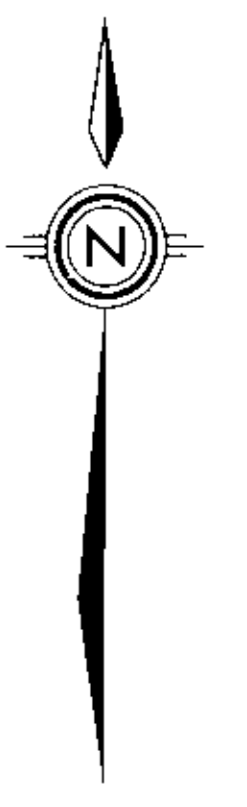
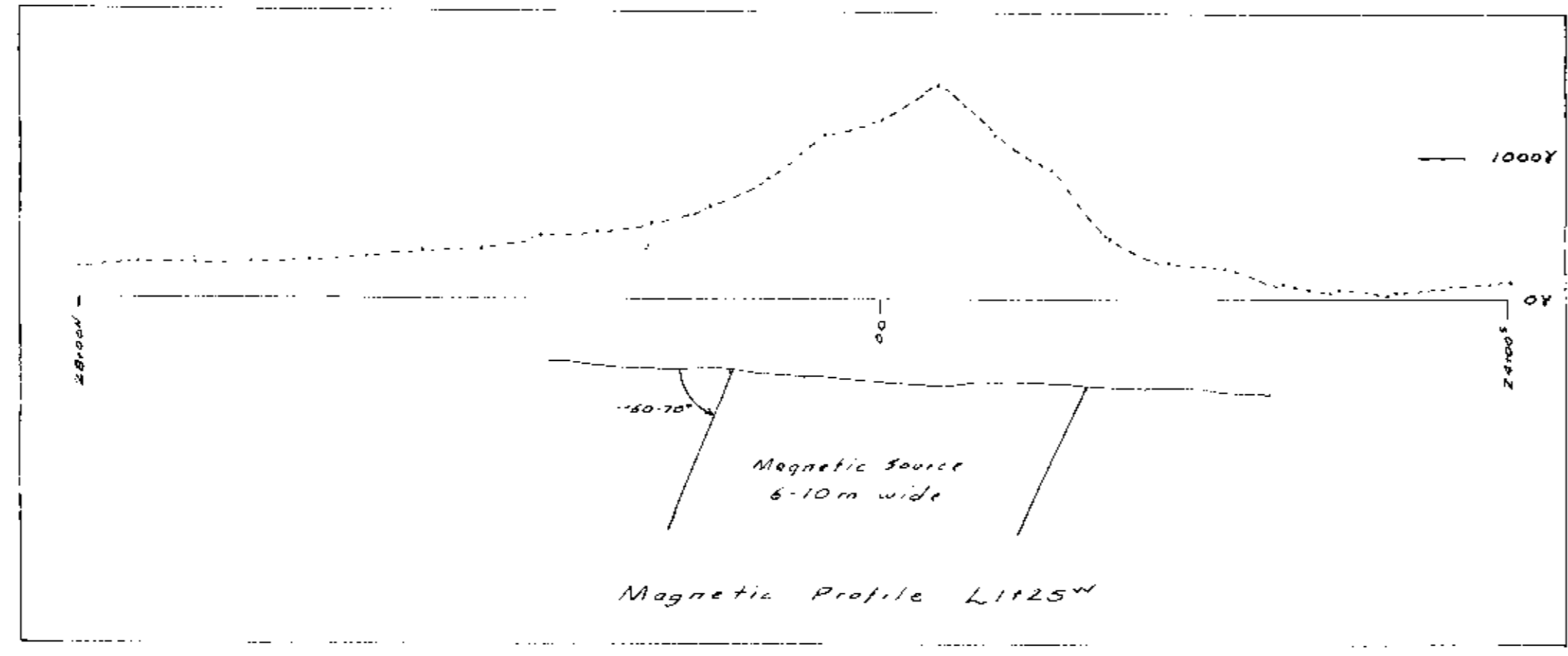
Part 2 of 2

6905

- LEGEND
- Possibly Anomalous 25-99 ppm
  - Probably Anomalous 95-184 ppm
  - Definitely Anomalous >184 ppm

*J. W.*

|                                |                        |
|--------------------------------|------------------------|
| GRANVILLE SQUARE JOINT VENTURE |                        |
| MIR CLAIMS - GRABEN AREA       |                        |
| GEOCHEMICAL PLAN               |                        |
| URANIUM DISTRIBUTION           |                        |
| IN SOIL                        |                        |
| Scale: 1:5000                  | Date: 1993             |
| Drawn by: A. P. [unclear]      | Checked by: [unclear]  |
| Reviewed by: [unclear]         | Approved by: [unclear] |



Part 2 of 2

MINERAL RIGHTS DIVISION  
ACCEPTED  
**6905**

GRANVILLE SQUARE JOINT VENTURE

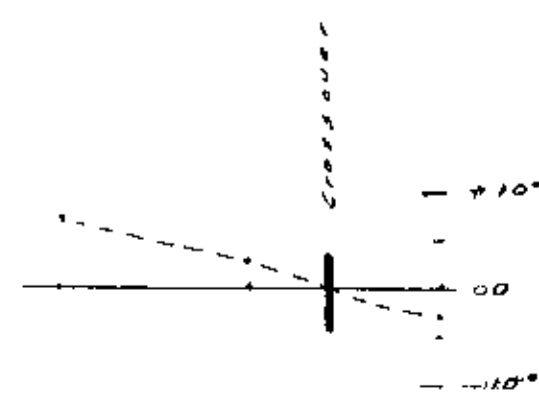
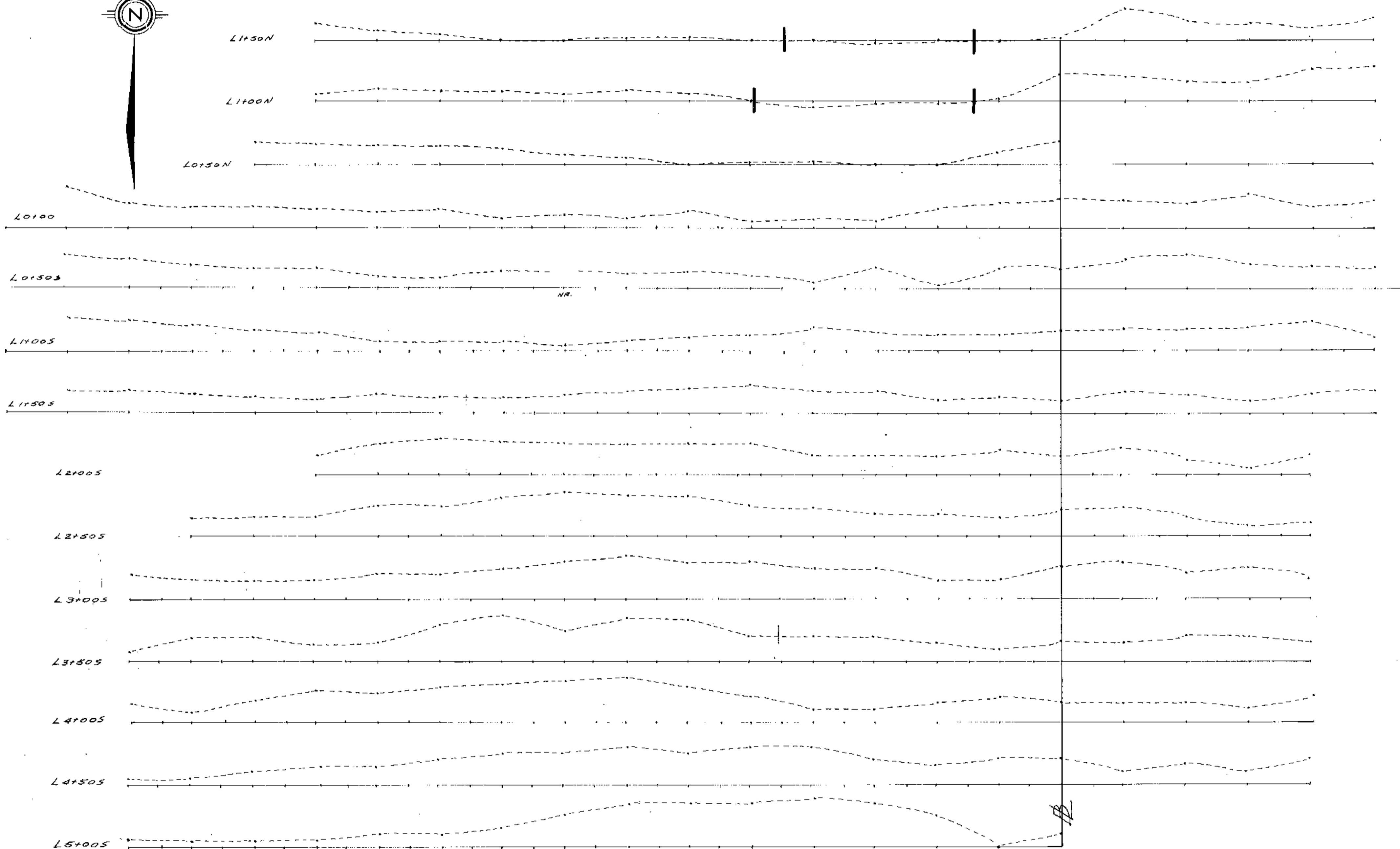
MIR CLAIMS - RADON CIRQUE AREA

MAGNETIC PLAN  
ELECTROMAGNETIC PROFILES

FIELD WORK BY: KLEIN, DUNSON & ASSOCIATES LTD  
DRAWN BY: J.P.X.  
APPROVED BY: J.R. KLEIN, P. ENG.

SCALE: 1:500  
DATE: SEPT, 1978

1:500 0m 5m 10m 15m 20m

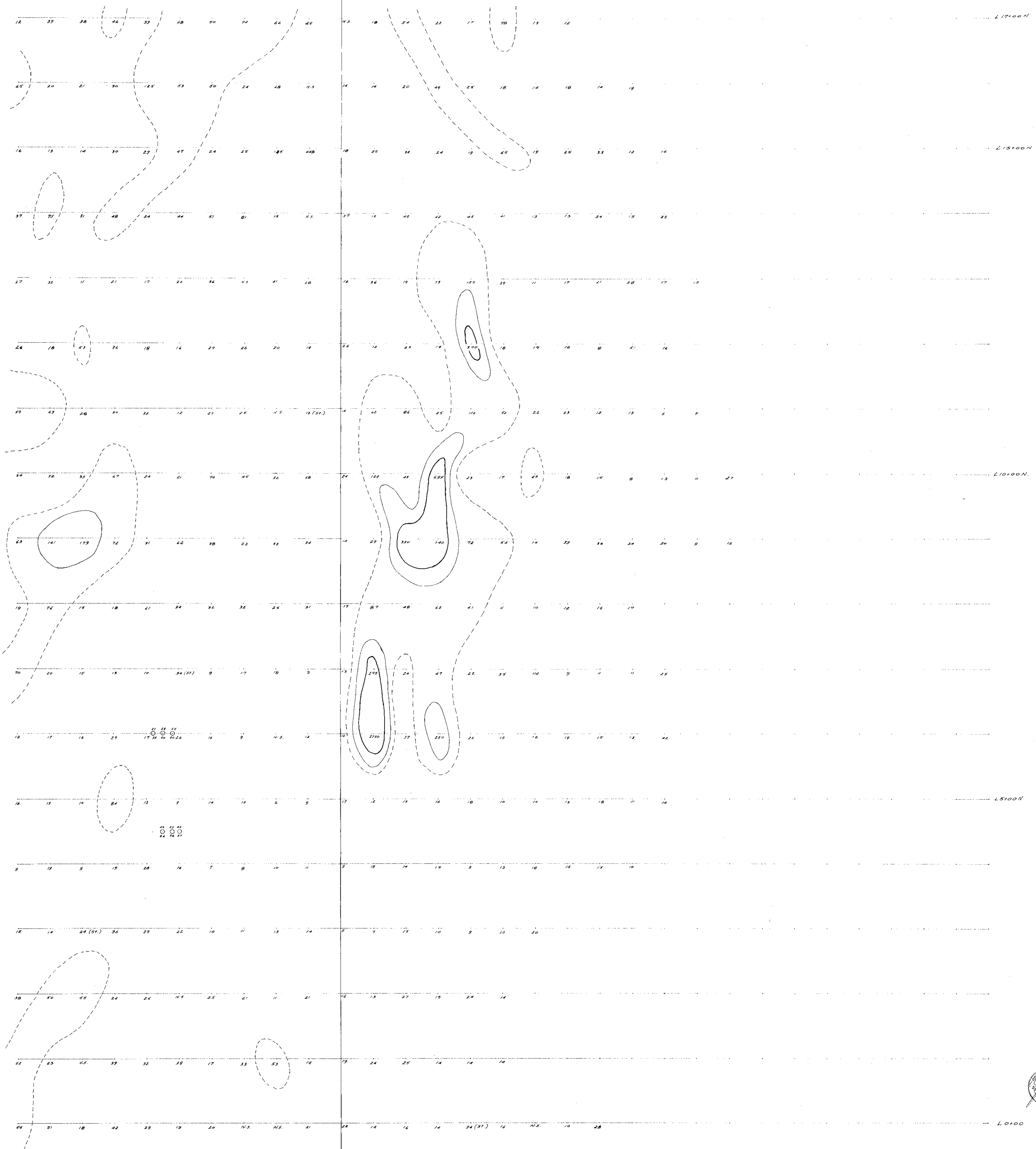
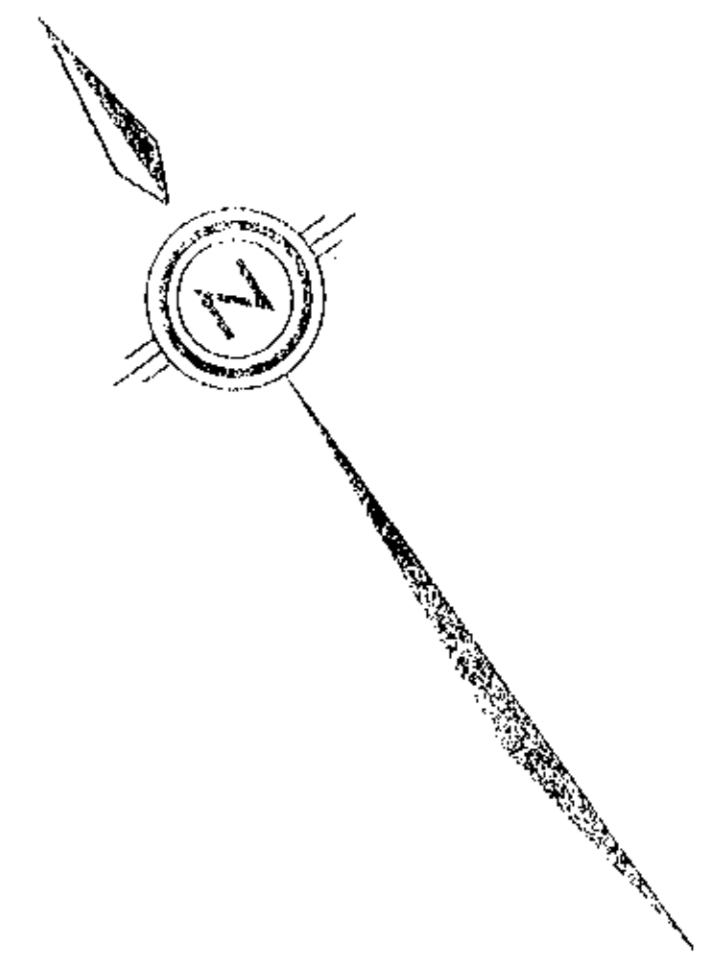


Part 2 of 2

MINERAL RESEARCH DESIGN  
ASSOCIATES LTD.  
6905

|  |                             |
|--|-----------------------------|
| GRANVILLE SQUARE JOINT VENTURE               |                             |
| MIR CLAIMS - RADON CIRQUE AREA               |                             |
| ELECTROMAGNETIC PROFILES                     |                             |
| Sabre Electronics VLF-EM Unit                |                             |
| Tech Work by: Kerr, Dawson & Associates Ltd. | Scale: 1:2000 0m 20 50m 100 |
| Drawn by: J.H.K.                             | Date: Sept, 1978            |
| Approved by: J.H. Kerr, P.Eng                | Fig No. 175 A 6             |

J. Kerr



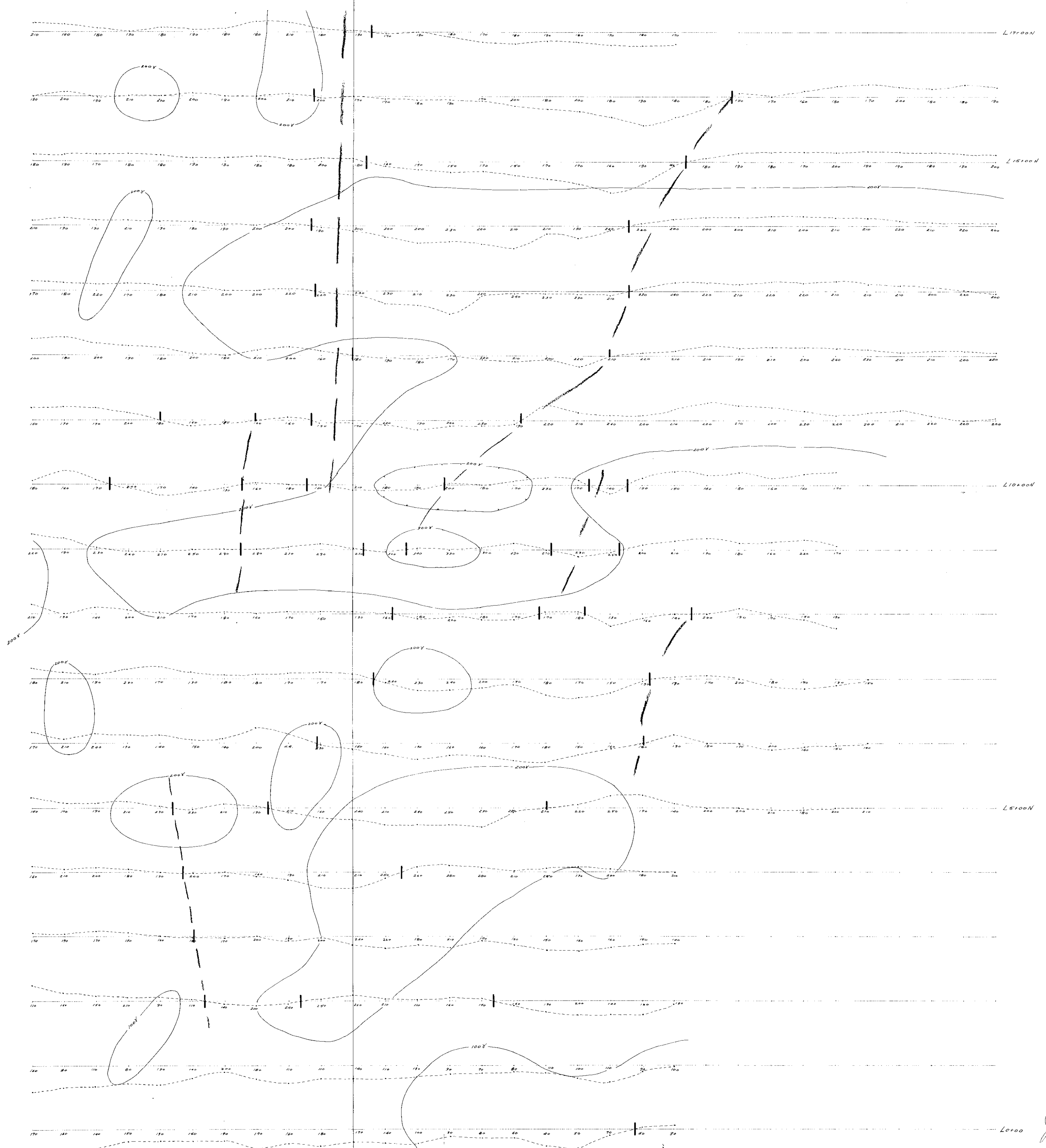
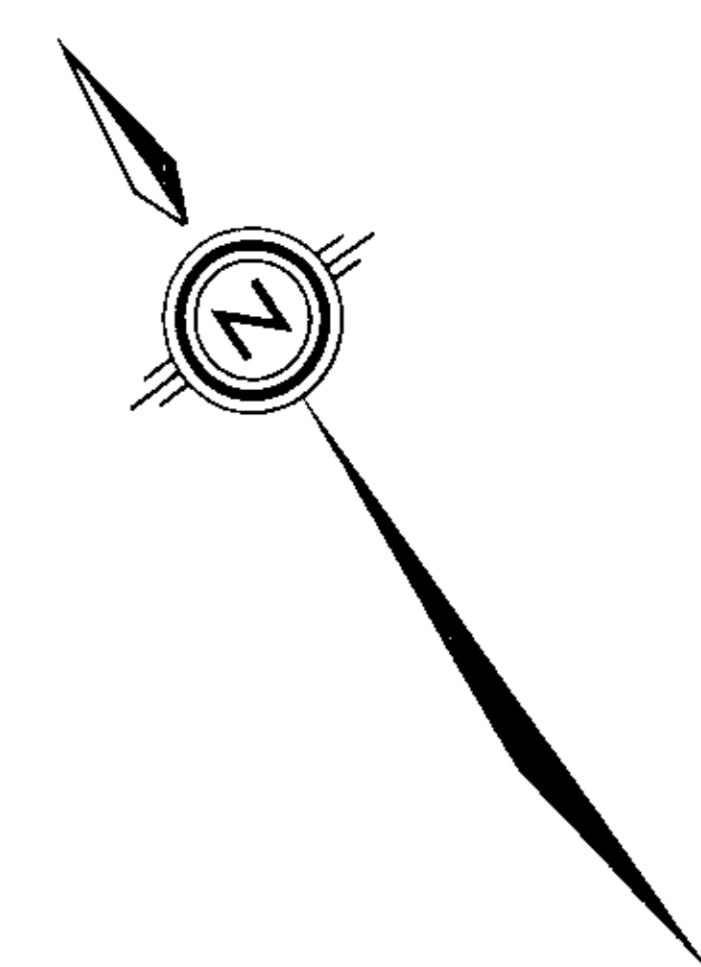
Part 2 of 2  
 6905

- LEGEND
- Possibly Anomalous 45 - 132 ppm
  - Probably Anomalous 133 - 221 ppm
  - Definitely Anomalous > 221 ppm

|                                |         |
|--------------------------------|---------|
| GRANVILLE SQUARE JOINT VENTURE |         |
| MIR CLAIMS - GRABEN AREA       |         |
| GEOCHEMICAL PLAN               |         |
| LEAD DISTRIBUTION              |         |
| IN SOIL                        |         |
| DATE                           | 1/20/98 |
| SCALE                          | 1:1000  |
| PROJECT NO.                    | 6905    |



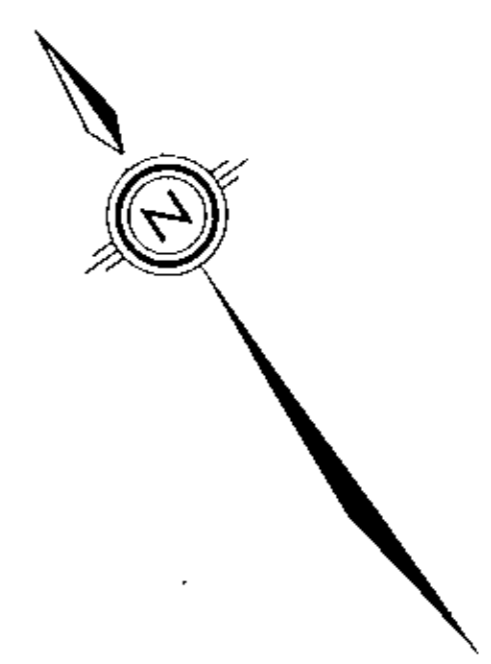
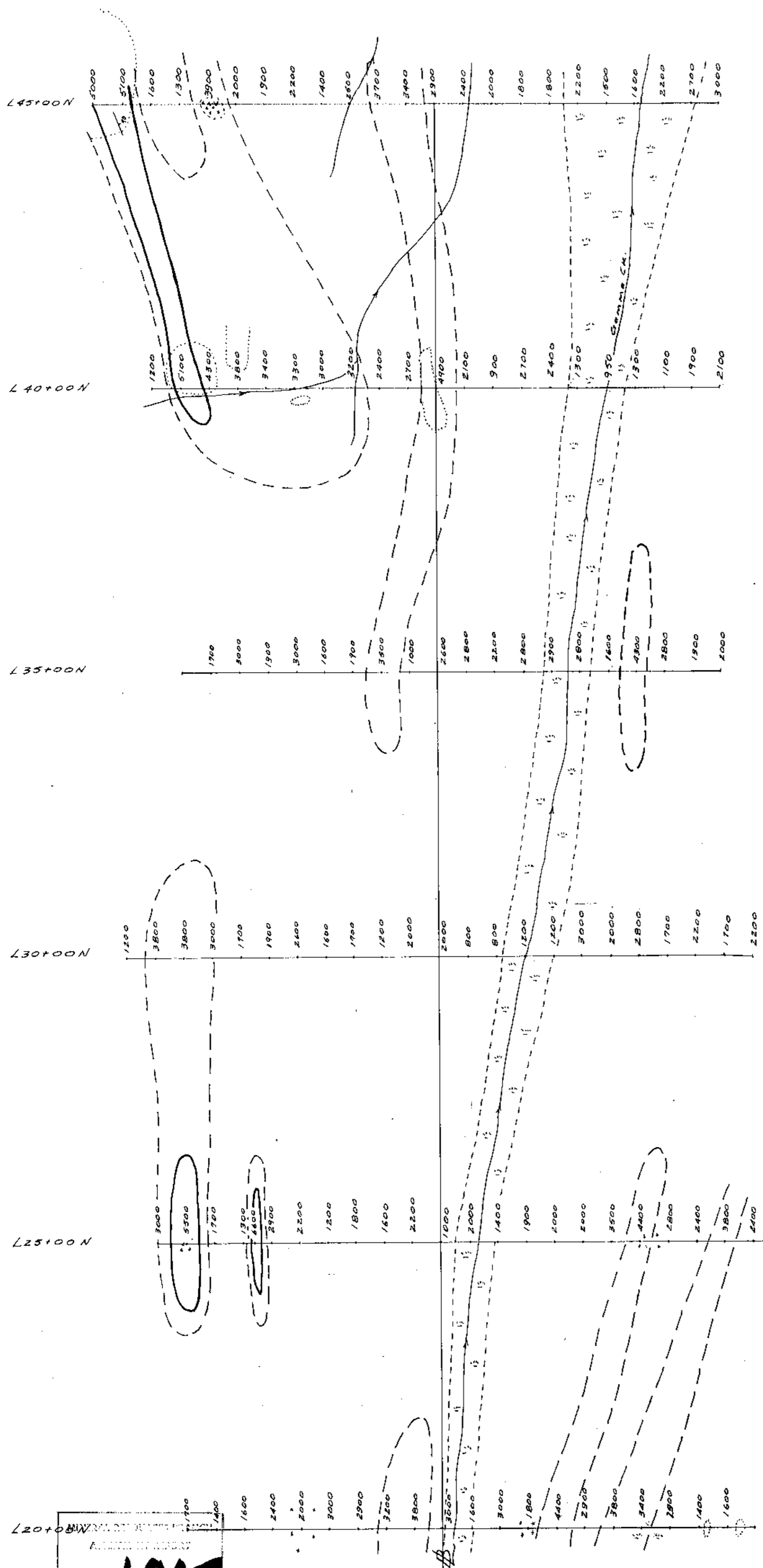




Part 2 of 2  
MIR CLAIMS - GRABEN AREA  
6905

Magnetic Contour Interval - 100Y

|                                |                  |
|--------------------------------|------------------|
| GRANVILLE SQUARE JOINT VENTURE |                  |
| MIR CLAIMS - GRABEN AREA       |                  |
| MAGNETIC PLAN                  |                  |
| ELECTROMAGNETIC PROFILES       |                  |
| DATE: 1994-08-10               | SCALE: 1:5000    |
| DRAWN BY: J. KERR              | DATE: 1994-08-10 |
| APPROVED BY: J. KERR           | DATE: 1994-08-10 |

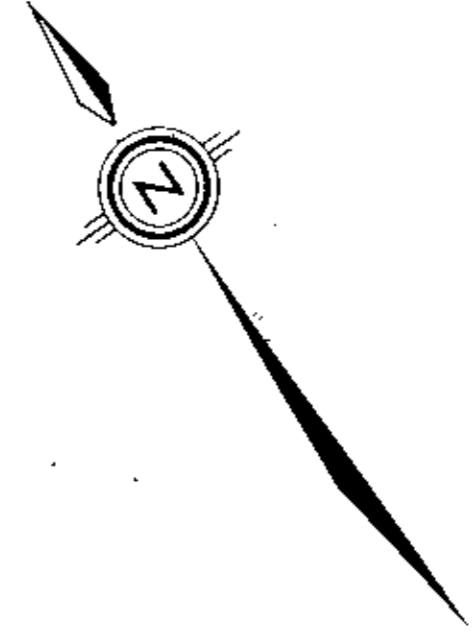
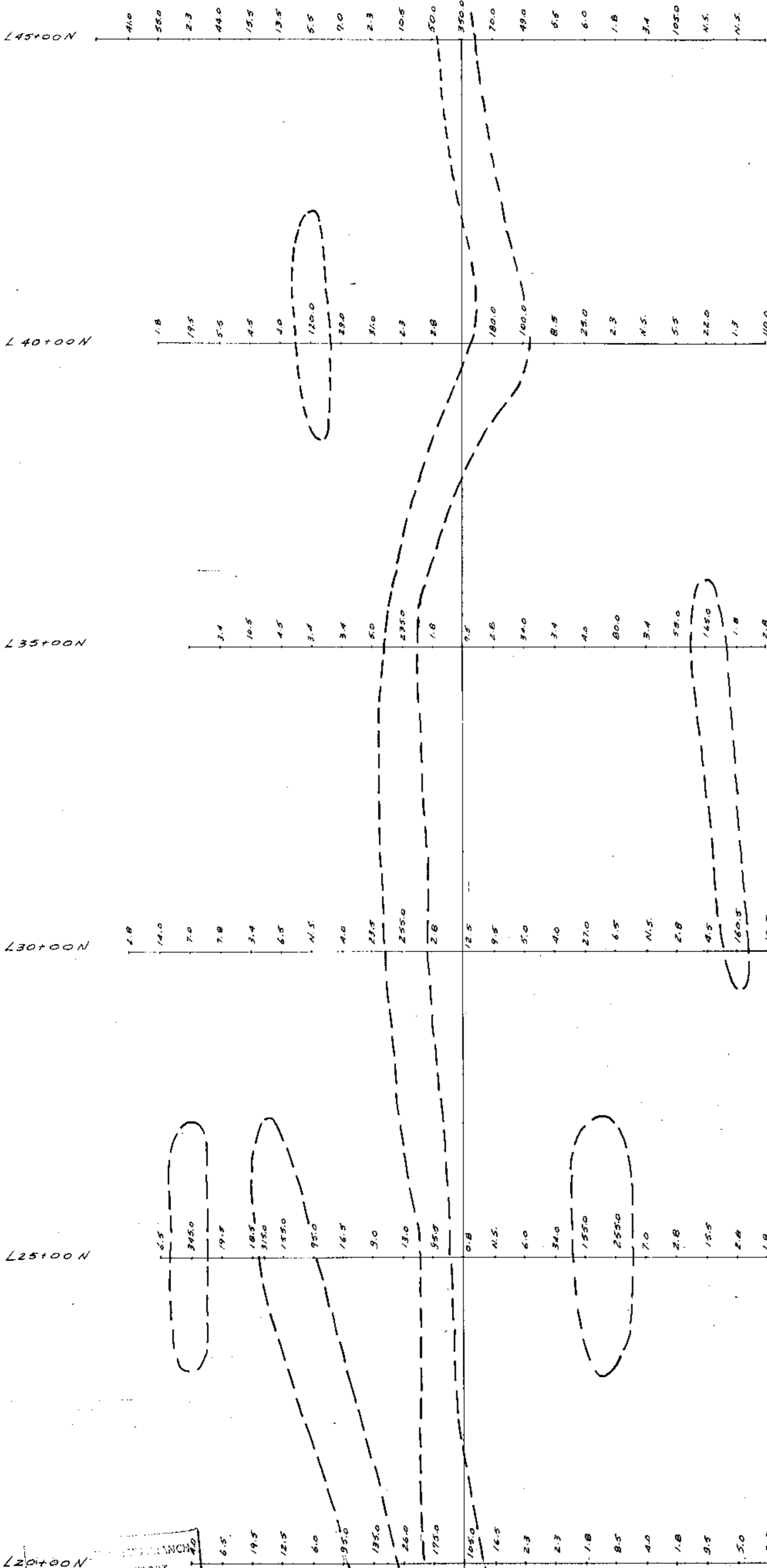


- LEGEND**
- Outcrop Areas
  - Swamp
  - Boulders
  - 3000 cpm Contour
  - 5000 cpm Contour

*J. Kerr*

|   |  |
|---|--|
| GRANVILLE SQUARE JOINT VENTURE              |  |
| MIR CLAIMS GRABEN AREA<br>(NORTH EXTENSION) |  |
| GEOLOGY & RADIOMETRIC PLAN                  |  |
| Tech. Work by: Kerr, Dawson Associates Ltd. | Scale: 1:5000<br>0m 50 100meters 200m. |
| Drawn by: J.R.K.                            | Date: Sept, 1978.                      |
| Approved by: J. R. Kerr, P.Eng.             | Fig No. 176 8 9                        |

**6905** Part 2 of 2



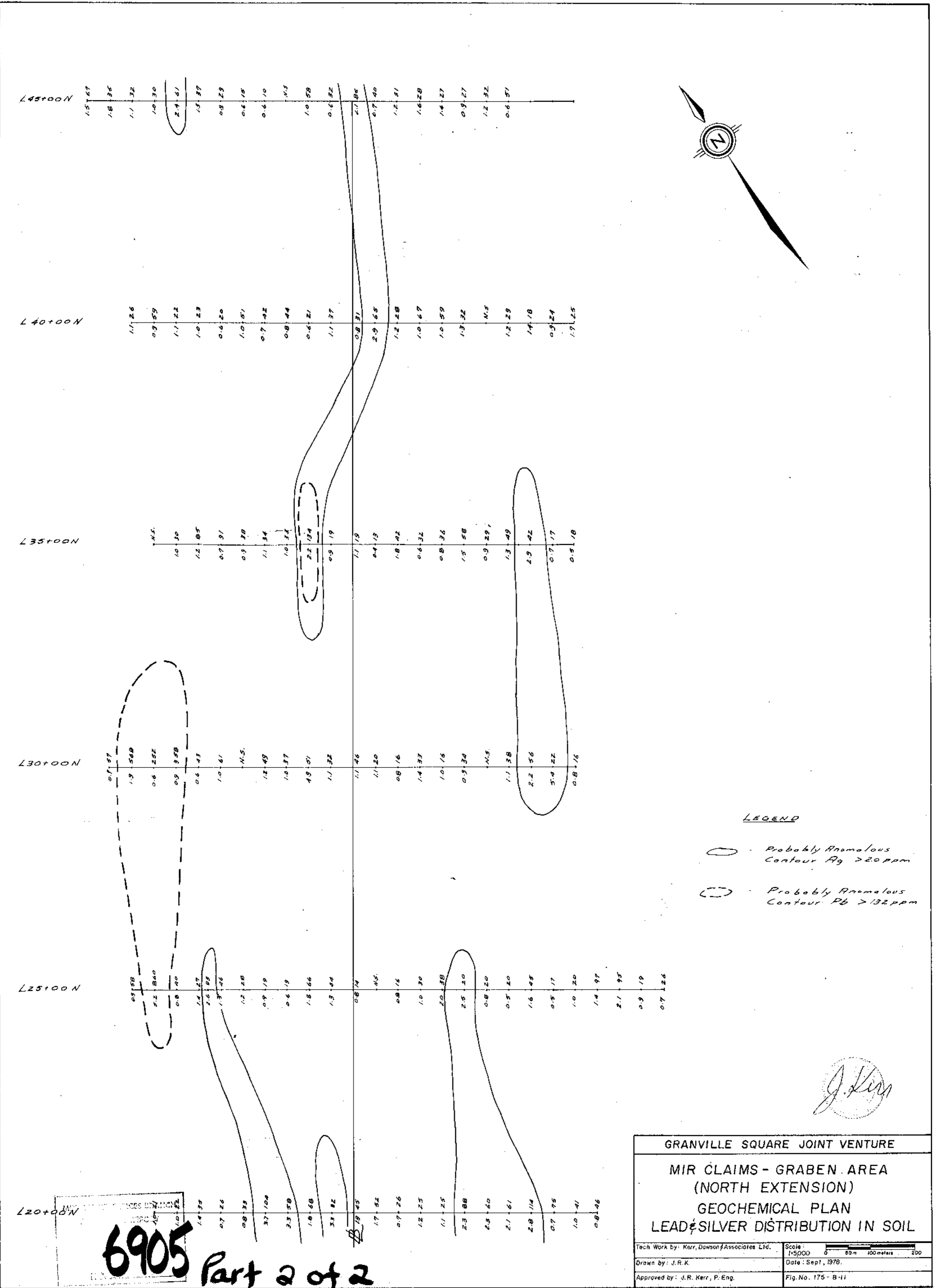
*(Dashed circle symbol)* - Probably Anomalous Contour U > 95ppm

*J. Kerr*

NO. **6905**

Part 2 of 2

|   |                                       |
|---|---------------------------------------|
| GRANVILLE SQUARE JOINT VENTURE                |                                       |
| MIR CLAIMS - GRABEN AREA                      |                                       |
| GEOCHEMICAL PLAN                              |                                       |
| URANIUM DISTRIBUTION                          |                                       |
| IN SOIL                                       |                                       |
| Tech. Work by: Kerr, Dawson & Associates Ltd. | Scale: 1:5000<br>0m 50 100 meters 200 |
| Drawn by: J.R.K.                              | Date: Sept, 1978.                     |
| Approved by: J.R.Kerr, F. Eng                 | Fig No. 175 B 10                      |



**LEGEND**

- Probably Anomalous Contour Ag > 20 ppm
- Probably Anomalous Contour Pb > 132 ppm

*J. Kerr*

|  |                                      |
|--|--------------------------------------|
| <b>GRANVILLE SQUARE JOINT VENTURE</b>                              |                                      |
| <b>MIR CLAIMS - GRABEN AREA<br/>(NORTH EXTENSION)</b>              |                                      |
| <b>GEOCHEMICAL PLAN<br/>LEAD &amp; SILVER DISTRIBUTION IN SOIL</b> |                                      |
| Tech Work by: Kerr, Dawson & Associates Ltd.                       | Scale: 1:5000<br>0 50m 100meters 200 |
| Drawn by: J.R.K.   | Date: Sept, 1978.                    |
| Approved by: J. R. Kerr, P. Eng.                                   | Fig. No. 175 - B-11                  |

**6905** Part 2 of 2