



31F04SW9460 63.3373 DUNGANNON

010

*see drill #18 DUNGANNON*

FINAL REPORT

EAGLE NEST MINES LTD. OPTION

31F4W

EXPLORATION ASSISTANCE AGREEMENT CONTRACT EO-2

DUNGANNON AND FARADAY TOWNSHIPS

D. J. Freckelton, P. Eng.  
Canadian Nickel Co. Ltd.  
Copper Cliff, Ontario  
January 28, 1976.

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010C

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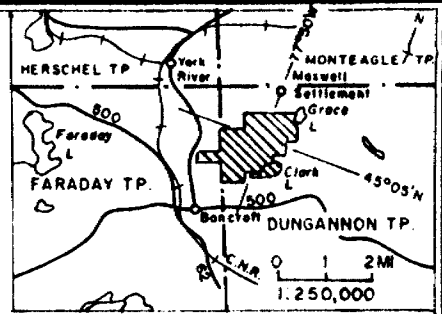
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HERSCHEL TP.

MONTEAGLE TP.

MAXWELL  
SETTLEMENT

XVI  
XV

XVI  
XV

XV  
XIV

XV  
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XIII

FARADAY TP.  
M-90

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M-85

BANCROFT

HASTINGS ROAD

Copper  
L.

Clark  
L.

Clark  
Cr.

Collison  
L.

Hwy 500

York  
R.

C.N.R.

PROPERTY MAP  
EAGLE NEST MINES, LTD.  
DUNGANNON and FARADAY TOWNSHIPS  
HASTINGS COUNTY  
EASTERN ONTARIO MINING DIVISION

1/2 0 1/4 1/2 MI

1 INCH = 1/2 MILE

REF: EO-2

31F 4W 1/76

## Eagle Nest Mines Option

### SUMMARY

The Eagle Nest Mines Ltd. property is located in the Hastings Highlands Gneiss Complex which is composed of highly metamorphosed Grenville metasediments which have been intruded and replaced by granitic and syenitic rocks.

Uranium mineralization is found in three main environments:

- 1) Pegmatite deposits
- 2) Metasomatic deposits in marble
- 3) Hydrothermal vein deposits in pyroxenite (biotite - calcite - apatite) veins.

Seven main radiometric zones were detected from scintillometer and geological surveys.

#### Zone I

A narrow zone, 1900 feet long by 75 feet wide, which was tested by 5 diamond drill holes during 1956 by Eagle Nest Mines. The zone is underlain in part by a pegmatite dike which dips steeply to the south and attains a maximum thickness of two feet. The best assays obtained from uranothorite mineralization in the dike were 0.01%  $U_3O_8$ /0.35%  $ThO_2$  and 0.02%  $U_3O_8$ /0.22%  $ThO_2$ .

Most of the anomaly appears to have been caused by the mass effects of steep outcroppings of pink leucogranite and not from uranium mineralization.

This zone was not drilled in 1975.

#### Zone II

This is a small radioactive zone 100 feet long by 20 feet wide which is underlain by marble. A surface sample of marble assayed 0.03%  $U_3O_8$ . The anomaly lies near the marble-paragneiss contact which strikes for over 2,000 feet and is largely covered by overburden.

The anomalous zone was tested by borehole 51522 which intersected 0.081%  $U_3O_8$  over 0.8 feet, 0.183%  $U_3O_8$  over 0.3 feet, and 0.128%  $U_3O_8$  over 0.4 feet. The radioactive zones were confined to the upper 16 feet.

#### Zone III & IV

Zone III and IV can be treated as a single zone of interest.

Summary (Cont'd)

Zone III is a radiometric zone 100 feet long by 50 feet wide which is underlain by hybrid syenite rocks and is located near the syenite-granite contact. Uranium mineralization is found in a pegmatite dike and in pyroxenite veins. Assays of 0.09%  $U_3O_8$ /0.23%  $ThO_2$ , and 0.02%  $U_3O_8$ /0.02%  $ThO_2$  were obtained from the pegmatite. Pyroxenite veins showed less than 0.01%  $U_3O_8$ .

Zone IV is a roughly triangular shaped area 50-200 feet long by 10-200 feet wide. It is underlain by granite near the syenite-granite contact. Radioactive minerals occur mostly in pyroxenite veins with 0.01%  $U_3O_8$  and 0.01%  $ThO_2$  being the best assay obtained.

Both zone III and zone IV appear to be associated with the contacts of a hybrid syenite body. The contacts of the syenite were not determined accurately due to the poor outcrop exposure. The two zones were cross-sectioned with boreholes 51523, 51524, and 51527 to test zone III and the intervening area between zones III and IV. The best assays obtained from the drill core were 0.03%  $U_3O_8$  over 0.6 feet, 0.047%  $U_3O_8$  over 0.8 feet, and 0.041%  $U_3O_8$  over 0.6 feet from boreholes 51523, 24 and 27 respectively.

Zone V

Zone V is a 200 foot long by 100 feet wide radiometric anomaly which is underlain by granite and paragneiss rocks. The uranium mineralization occurs in cross-cutting pyroxenite (calcite-apatite) veins up to a foot wide. The best assay result obtained from surface sampling was 1.35%  $U_3O_8$  and 6.62%  $ThO_2$ . The showing was tested by borehole 51526 which intersected 0.014%  $U_3O_8$  over 0.8 feet and 0.021%  $U_3O_8$  over 0.7 feet, in a pyroxenite vein and a lense of vuggy sulphides respectively. Numerous stringers of secondary pyrite were encountered in this hole and were analysed for copper, nickel and gold. The best assays obtained for copper, nickel and gold were 0.326%, 0.063% and 0.002 oz/ton respectively.

Zone VI

Zone VI consists of three separate radiometric anomalies which together occupy an area 400 feet long by 50-300 feet wide. The zone is underlain by leucogranite with scattered occurrences of uranium in pegmatite and pyroxenite veins. Surface sampling of a small pegmatite dike produced assays of 0.02%  $U_3O_8$  and 0.06%  $ThO_2$  but the main target was the broad anomalous zone covered by overburden. The zone was cross-sectioned by boreholes 51528 and 51529. Diamond drill core assays showed maximum results of 0.013%  $U_3O_8$  over 2 feet and 0.065%  $U_3O_8$  over 5 feet in boreholes 51528 and 51529 respectively.

Summary (Cont'd)Zone VII

Zone VII consists of three separate radiometric zones which together occupy an area 700 feet long by 50 to 100 feet wide. Surface sampling produced assays from 0.01% to 0.05%  $U_3O_8$  in uranothorite or thorianite mineralization in pegmatite dikes. The anomaly was tested by borehole 51525. Assay results from the drill core were less than 0.002%  $U_3O_8$ .

CONCLUSIONS

Most of the assays from drill core obtained from the six radioactive anomalies tested were less than 0.005%  $U_3O_8$ , and only narrow intersections of better grade material were obtained by the drilling. It is therefore concluded that no economically exploitable deposit exists on the Eagle Nest Mines Ltd. property.

RECOMMENDATIONS

It is recommended that the option be dropped and that no further work be undertaken.

INTRODUCTION

In April 1975, an option agreement was signed between the Canadian Nickel Company Limited and Eagle Nest Mines Ltd., on their uranium property near Bancroft, Ontario. The property includes 10 patented lots, parts of 6 patented lots and 6 staked claims in Dungannon Township, and 2 patented lots in Faraday Township.

Field work began on May 19, 1975 with the establishment of 42.2 miles of grid for control. Cross lines 100 feet apart were cut over areas of known radioactive occurrences and 400 feet apart over the remainder of the property. Ground surveys consisting of geological mapping, scintillometer and magnetometer surveys were completed using the grid system for control. Seven radioactive zones of interest outlined by the ground surveys were tested by nine short diamond drill holes totalling 1515 feet.

LOCATION AND ACCESS

The property is located one mile north-east of the village of Bancroft and is readily accessible by numerous secondary roads.

PROPERTY DESCRIPTION

The "Eagle Nest" property is comprised of 12 patented lots, parts of 6 patented lots, and 6 unpatented claims in Dungannon and Faraday Townships. (See fig. 1). The mining rights for these patented and unpatented claims are owned by Eagle Nest Mines Ltd., excepting lot 30, concession 15, Dungannon Township which is owned by the Township of Dungannon. Field operations during the months of May, to October, 1975 covered the following claims:

Patented Claims: Faraday Twp. Lots 69, 70

Dungannon Twp: Lots 66, 69, 70, 71, 72, 73, 74; Lots 28, 29, 30  
Concession XV; N 1/2 Lot 27, Concession XV; N 1/2  
Lot 27, Concession XV; S 1/2 Lots 26, 27, 28, 29, 30,  
Concession XVI.

Unpatented Claims: Dungannon Twp.; E0414113, 14, 15, 16, 17 and 18.

PREVIOUS WORKGovernment

The property was included in the O.D.M. 1" = 1/2 mi. mapping programs in Dungannon and Faraday Townships in 1955 and 1956 respectively. J. Satterly visited the property briefly in 1957 and found the occurrences to be small and widely spaced with a high thorium/uranium ratio (15:1). An airborne radiometric response was delineated on the property by the G.S.C. in 1969.

Private

The property was located in 1956 by Arthur H. Shore the discoverer of the Faraday Uranium Mine. Eagle Nest Mines Ltd., was incorporated in 1956 and large amounts of stripping, rock trenching and 17 diamond drill holes were completed during 1956-57. Six radioactive zones in the north and south sections were discovered. The South section consists of the Mountain, Pinnacle and Weimer zones and the North section consists of the Mica, Gossan and Field zones.

During May, 1958, the property was re-evaluated by D. M. Mackeracher who found the Pinnacle Area of most interest and recommended further work. The Pinnacle area was also visited briefly in 1958 by consultants J. J. Harris, P.Eng. and A. E. Tyson P.Eng. both of Toronto. They collected samples which averaged 2.37% U<sub>3</sub>O<sub>8</sub> and 2.5% U<sub>3</sub>O<sub>8</sub> respectively from the Pinnacle area and both recommended further work.

Previous Work (Cont'd)

D. M. Mackeracher re-visited the property in 1967 and under his recommendation more blasting, sampling and the preparation of a rough scintillometer map was undertaken. In 1968, Watts Exploration Services undertook a magnetometer survey over the unpatented ground, presumably for assessment purposes. This survey was not complete. C. F. Ennis re-evaluated the south section in 1970 and completed a scintillometer survey over the Mountain, Pinnacle and Weimer Zones. He reported that the scintillometer results were probably dampened by the effects of a one foot snow cover at the time of survey.

GEOLOGYGeneral Geology

The Eagle Nest property is located in the Hastings Highlands Gneiss Complex (D. F. Hewitt, 1956) which is composed of highly metamorphosed Grenville metasediments which have been intruded and replaced by granitic and syenitic rocks.

The geology is shown on the accompanying geology plans at a scale of 1" = 100 feet. Picket lines used for the geophysical surveys were used for mapping control.

Granitic RocksPegmatite

This is a typical coarse grained, pink pegmatite with accessory magnetite, biotite, hornblende, pyroxene and pyrite.

Radioactive pegmatites differ from non-radioactive pegmatites in that they are distinctively blood red in colour, contain coarse inclusions of magnetite and pyroxene, and often have a sheared appearance.

Granite Gneiss

This is a medium grained pink granite gneiss which strikes from 20 to 70 degrees east of north, and shows an average dip of about 30 degrees to the south. Mineralogically it is composed of quartz and silicic feldspars with accessory biotite and magnetite. The foliation is predominantly caused from the orientation of quartz lenticles. Occasional conformable relicts and inclusions were found but overall the rock is fairly uniform in composition.

Geology (Cont'd)Granite

The granite unit is a fine to medium grained pink leucogranite that is massive to very weakly foliated. It forms a conformable band about 70 feet thick that dips to the south at 10 to 30 degrees. It is composed mainly of silicic feldspars, granular quartz and minor magnetite up to 10 percent. Accessory biotite and occasional specks of pyrite are also found. Relict bands and inclusions of sedimentary rock (including Lit par Lit gneiss) are common near the upper and lower contacts of the unit.

Syenitic RocksSyenite

The syenite group includes all plutonic rocks consisting primarily of feldspar, which are of intrusive or metasomatic origin. Two main types of syenite were distinguished on the Eagle Nest property: a leucocratic syenite and a hybrid syenite.

The leucocratic syenite is fine to medium grained, pink in colour and is non foliated. It is devoid of mafic minerals except accessory magnetite, and rarely biotite. Locally it grades to a monzonitic composition.

Hybrid syenite is a medium grained, yellow brown, massive rock with up to 30 percent biotite or pyroxene.

MetasedimentsMarble

The marble unit is a medium to coarse grained, white to blue grey crystalline limestone or dolomite. It is friable on the weathered surface and contains accessory phlogopite, graphite, apatite and diopside. Near its contacts, the marble unit contains salmon pink calcite.

This unit was found to be radioactive in a boulder located on line 15E at 8+20N.

Paragneiss

The most common paragneiss found on the grid area is composed primarily of biotite quartz and plagioclase. It is a medium grained, equigranular rock with a pronounced banded or bedded texture. Magnetite, and sometimes garnet, is present as accessories. This unit is often found with conformable or irregular granitic injections and is sometimes present in its granitized or syenitized equivalents.

Geology (Cont'd)

Paragneisses (Cont'd)

Amphibole - (biotite) - plagioclase gneisses are the second most common paragneiss found on the property. These are medium grained, equigranular rocks with moderate to strong foliation.

Structure

The rocks show a basic east-west (grid) to northeast (grid) strike. Dips average about 20 degrees to the south. There are no very obvious faults or folds, except a possible fault, between 24+50E/10N and 20+50E/0. Field evidence for this is (1) change in direction of the strike of foliation from grid north-east to the west of line 23E, to a more northerly direction to the east of line 23E; (2) an apparent displacement of the granite - paragneiss contact.

GEOPHYSICS

Spectrometer Survey

An integral count scintillometer survey was completed over the grid using a McPhar TV-3 spectrometer. Readings were taken at ten foot intervals on lines one hundred feet apart and at twenty foot intervals on lines four hundred feet apart. The sensor was held at waist level for all observations.

The contoured data is shown on the accompanying Radiometric Survey plans on a scale of 1" = 100 feet. For simplicity in plotting, the field data was divided by 1000. The reduced readings (in c.p.m.) were contoured using a semi-logarithmic contour interval. The contour lines are shown as follows: 100,000 cpm - heavy solid, 25,000 cpm - heavy broken, and 10,000, 15,000 and 50,000 cpm as a thin solid line. Due to the sporadic and patchy nature of the radioactive occurrence, line to line contouring is questionable, especially between lines spaced four hundred feet apart.

Numerous radioactive highs were detected on the grid area but after ground checking, only seven were considered to be important. These seven anomalous zones have been numbered randomly and not according to importance. The plans on which they may be found are as follows:

Geophysics (Cont'd)Spectrometer Survey (Cont'd)

| <u>Zone</u> | <u>Sheet</u> |
|-------------|--------------|
| I           | 1 & 2        |
| II          | 4            |
| III         | 4            |
| IV          | 5            |
| V           | 4            |
| VI          | 5 & 9        |
| VII         | 4 & 10       |

Each of the above radioactive zones are discussed under Mineralization and Economic Potential.

Magnetometer Survey

A magnetometer survey was completed over the grid area as an aid to geological mapping to detect possible faults or cross-cutting magnetite rich pegmatites.

Readings were taken at twenty foot intervals using a Sharpe MF-2 fluxgate magnetometer. The contoured data is shown on the accompanying Magnetic Survey plans on a scale of 1" = 100 feet. For simplicity in plotting, the last digit of each station's magnetic value has been omitted. Contour intervals are as follows: 200 gammas - light solid line, 1,000 gammas - heavy solid line, and 5,000 gammas - heavy broken line.

The contoured magnetic data shows a basic east-west (grid) trend and is marked by numerous highs and lows which are caused by a variable magnetite content in the mainly granitic rocks.

A slight break in the magnetic contours on Sheet 4 between 24+50E/10N and 20+50E/0N appears to confirm the mapping indications of a fault in this area.

DIAMOND DRILLING

Nine short holes totalling 1515 feet were drilled by Canico Winkie crews during October 1975. The borehole locations, and statistics are summarized in table 1. It should be noted that borehole 51530 was drilled for assessment credits.

TABLE 1

| <u>B.H.#</u>  | <u>Location</u> | <u>Azimuth</u> | <u>Dip</u> | <u>Overburden</u> | <u>Depth</u> |
|---------------|-----------------|----------------|------------|-------------------|--------------|
| 51522         | 8N/15+10E       | 296°           | -55°       | 2.5               | 102          |
| 51523         | 0+70N/19+70E    | 296°           | -45°       | 5.0               | 182          |
| 51524         | 0+30S/20+70E    | 296°           | -45°       | 5.0               | 205          |
| 51525         | 10+40N/37+00E   | 298°           | -45°       | 16.0              | 203          |
| 51526         | 1+20N/31+00E    | 298°           | -45°       | 2.0               | 192          |
| 51527         | 1+25S/21+60E    | 296°           | -45°       | 2.0               | 201          |
| 51528         | 4+10S/38+50E    | 310°           | -45°       | 6.1               | 158          |
| 51529         | 5+30S/39+20E    | 310°           | -45°       | 2.7               | 171          |
| 51530         | 13+90S/56+90E   | 345°           | -80°       | 0.0               | 101          |
| Total 9 Holes |                 |                |            |                   | 1515 feet    |

Diamond Drilling (Cont'd)

All of the core was cut in half with a diamond saw. One half of the core was analysed for U<sub>3</sub>O<sub>8</sub> with a maximum sample length of 10 feet used. The remaining half of the core is in storage at Copper Cliff. In borehole 51526 where pyrite was encountered, additional analyses of copper, nickel and gold were completed over selected sections of core.

The borehole logs, sections, and a list of common abbreviations used are appended. The assay results are discussed under "Mineralization and Economic Potential".

MINERALIZATION AND ECONOMIC POTENTIAL

Uranium mineralization occurs in the following three environments on the Eagle Nest property:

- 1) Pegmatite deposits
- 2) Metasomatic deposits in marble
- 3) Hydrothermal Vein deposits in pyroxenite (biotite - calcite - apatite) veins.

The radioactive occurrences are too numerous to mention individually, therefore only the major radiometric zones numbered from I to VII on the radiometric plans will be discussed. Assay results from surface grab samples are plotted on the Geology plans.

Zone I

This is a narrow radiometric zone 1900 feet long with an average width of 75 feet which strikes between 6W/1S and 13E/3S. It corresponds to the "Mountain Zone" which was tested by 5 diamond drill holes during 1956 by Eagle Nest Mines. It is underlain, in part, by a pegmatite dike which outcrops in trenches at 4+50W/1S, and between 3+80E/2+20S and 5E/2+30S.

The pegmatite is blood red in colour, has a sheared appearance and contains coarse inclusions of magnetite and some pyroxene. It appears to dip steeply to the south. The width is variable over short distances, attaining a maximum thickness of two feet. Uranothorite is the major uranium mineral with the best assays obtained from surface sampling being 0.01% U<sub>3</sub>O<sub>8</sub>/0.35% ThO<sub>2</sub>, and 0.02% U<sub>3</sub>O<sub>8</sub>/0.22% ThO<sub>2</sub>.

Mineralization & Economic Potential (Cont'd)Zone I (Cont'd)

As noted previously the pegmatite outcrops in only two locations. The remainder of the radioactive anomaly delineated by zone I appears to have been caused by the mass effect of potassium radiation emanating from steep outcroppings of pink leucogranite and not from uranium mineralization. The area between 5+50E and 12+50E, is covered by water. Zone I, is therefore, of very limited tonnage potential and since the uranium mineralization sampled contains only sub-economic amounts of uranium, this zone was not drilled.

Zone II

This is a small radioactive zone 100 feet long by 20 feet wide. It is underlain by marble but it is near the marble-migmatite and paragneiss contact. Encouragement was given by one sample of marble which contained 0.03%  $U_3O_8$ . The marble-paragneiss contact strikes for over 2,000 feet and is mostly covered by overburden. The showing was tested with borehole 51522. (See table 2).

Uranium mineralization grading 0.081%, 0.183% and 0.128%  $U_3O_8$  was detected over core lengths of 0.8, 0.3 and 0.4 feet respectively. The radioactive zones were all confined to the upper 15.6 feet.

Even though ore grades were obtained, they are over narrow widths and contained in too limited an area to have any tonnage potential.

Zone III and Zone IV

Zones III and IV can be treated as a single zone of interest. They are a part of the "Pinnacle Zone" worked during 1956 by Eagle Nest Mines.

Zone III is a 100 foot by 50 foot radiometric anomaly, which is underlain by hybrid syenite rocks and is located near the syenite - granite contact. Unfortunately old blasting has contaminated the area with radioactive fly rock. Radioactive minerals occur in pyroxenite - (calcite - apatite - biotite) veins and a pegmatite dike. The pyroxene veins vary from 3 to 12 inches in thickness, and the longest vein outcrops discontinuously over 30 feet. The pegmatite dike is blood red in colour, with coarse pyroxene inclusions. It outcrops over 22 feet but its true thickness could not be determined. Assays of 0.09%  $U_3O_8$ /0.23%  $ThO_2$  and 0.02%  $U_3O_8$ /0.02%  $ThO_2$  were obtained from the pegmatite. Assays from the pyroxenite veins showed less than 0.01%  $U_3O_8$ .

Mineralization & Economic Potential (Cont'd)Zone III & IV (Cont'd)

Zone IV is a roughly triangular shaped area 50-200 feet long by 10-200 feet wide. It is underlain by granite with the radioactive minerals occurring mainly in pyroxenite veins. The best assay obtained from surface sampling was 0.01%  $U_3O_8$  and 0.01%  $ThO_2$ . The radioactivity in zone IV is also hard to interpret because of the presence of fly rock contamination from blasting.

As noted, zones III and IV seem to be associated with the contacts of a syenite body which only outcrops sporadically between the two zones. It was decided to test the possibility of a large tonnage, low grade deposit in the area between the two zones by boreholes 51523, 51524 and 51527. The assay results are tabulated in table 2.

The best assays obtained from the diamond drill core were 0.03%  $U_3O_8$  over 0.6 feet, 0.047%  $U_3O_8$  over 0.8 feet, and 0.041%  $U_3O_8$  over 0.6 feet, from boreholes 51523, 51524 and 51527 respectively. The radioactivity is over very narrow widths which do not offer large tonnage capabilities.

Zone V

Zone V is a 200 foot by 100 foot radiometric anomaly which is also part of the "Pinnacle Zone" worked by Eagle Nest Mines. It is underlain by granite and paragneiss rocks. The most important part of the showing was underlain by paragneiss with the uranium mineralization occurring in cross-cutting pyroxenite (calcite - apatite) veins up to a foot wide. The best assay obtained in surface sampling was 1.35%  $U_3O_8$  and 6.62%  $ThO_2$  in uranothorite mineralization in a pyroxene - calcite - apatite vein. Interpretation of this showing is also hampered by rubble and fly rock contamination.

The showing was tested by borehole 51526 to a depth of 192 feet. Uranium assays of 0.014%  $U_3O_8$  over 0.8 feet and 0.021%  $U_3O_8$  over 0.7 feet were obtained from the core in a pyroxenite vein and a lense of vuggy sulphides respectively. Numerous stringers of secondary pyrite were encountered in the core and these were analysed for copper, nickel, gold. The best assays obtained for copper, nickel and gold were 0.326%, 0.063% and 0.002 oz/ton respectively.

The assays do not indicate any potential for a viable uranium deposit.

Zone VI

Zone VI is made up of three separate radioactive anomalies which together occupy an area 400 feet long by 50-300 feet wide which corresponds to the "Weimer Zone" worked by Eagle Nest Mines during 1956. It is underlain by

Mineralization & Economic Potential (Cont'd)Zone VI (Cont'd)

leucogranite with scattered occurrences of uranium mineralization in pegmatite and pyroxenite veins. Surface sampling of a small pegmatite dike produced assays of only 0.02%  $U_3O_8$  and 0.06%  $ThO_2$  but it was felt that since most of the anomalous zone was covered by areas of overburden, it should be cross-sectioned by two diamond drill holes to test the overall potential of the underlying rocks. The anomaly was tested by boreholes 51528 and 51529.

Assay results from the diamond drill core (see table 2) showed maximum results of 0.013%  $U_3O_8$  over 2 feet, and 0.065%  $U_3O_8$  over 5 feet in boreholes 51528 and 51529 respectively. The overall  $U_3O_8$  background was very low with only 3 samples from B.H. 51528 and 2 samples from B.H. 51529 showing assays over 0.005%  $U_3O_8$ .

Zone VII

Zone VII consists of 3 separate radiometric anomalies which are discontinuous over a total area 700 feet long by 50 to 100 feet wide. The zone corresponds to the "Mica Zone" which was tested by three holes by Eagle Nest Mines during 1956. Assays from surface sampling varied from 0.01% to 0.05%  $U_3O_8$  from uranothorite or thorianite mineralization in pegmatites. Most of the area was covered with overburden and the known showings were contaminated with fly rock and rubble, so it was decided to drill the zone. Borehole 51525 was completed and did not intersect values greater than 0.002%  $U_3O_8$ .

D. Freckelton/nk  
January 28, 1976.



TABLE 2

DIAMOND DRILL CORE ASSAY SUMMARY  $\geq 0.005\%$   $U_3O_8$

| Borehole | From                                             | To    | Length | %U <sub>3</sub> O <sub>8</sub> | Cu   | Ni   | Au   |
|----------|--------------------------------------------------|-------|--------|--------------------------------|------|------|------|
| 51522    | 7.5                                              | 8.3   | 0.8    | 0.081                          |      |      |      |
|          | 12.1                                             | 12.4  | 0.3    | 0.183                          |      |      |      |
|          | 12.4                                             | 15.2  | 2.8    | 0.009                          |      |      |      |
|          | 15.2                                             | 15.6  | 0.4    | 0.128                          |      |      |      |
| 51523    | 62.0                                             | 63.9  | 1.9    | 0.006                          |      |      |      |
|          | 78.3                                             | 78.9  | 0.6    | 0.033                          |      |      |      |
|          | 83.6                                             | 84.3  | 0.7    | 0.014                          |      |      |      |
| 51524    | 9.6                                              | 10.0  | 0.4    | 0.024                          |      |      |      |
|          | 13.4                                             | 14.1  | 0.7    | 0.04                           |      |      |      |
|          | 14.1                                             | 14.9  | 0.8    | 0.005                          |      |      |      |
|          | 14.9                                             | 15.7  | 0.8    | 0.047                          |      |      |      |
|          | 15.7                                             | 18.1  | 2.4    | 0.005                          |      |      |      |
|          | 18.1                                             | 18.7  | 0.6    | 0.005                          |      |      |      |
|          | 190.6                                            | 195.6 | 5.0    | 0.009                          |      |      |      |
| 51525    | All assays <0.002% U <sub>3</sub> O <sub>8</sub> |       |        |                                |      |      |      |
| 51526    | 28.3                                             | 29.1  | 0.8    | 0.014                          | .042 | .018 | Nil  |
|          | 41.7                                             | 42.7  | 1.0    | 0.006                          | N/A  | N/A  | N/A  |
|          | 117.9                                            | 118.6 | 0.7    | 0.021                          | .082 | .063 | .002 |
| 51527    | 10.0                                             | 10.7  | 0.7    | 0.014                          |      |      |      |
|          | 20.9                                             | 21.5  | 0.6    | 0.041                          |      |      |      |
|          | 33.6                                             | 35.1  | 1.5    | 0.006                          |      |      |      |
|          | 42.1                                             | 43.1  | 1.2    | 0.005                          |      |      |      |
|          | 50.7                                             | 51.7  | 1.0    | 0.065                          |      |      |      |
|          | 65.5                                             | 67.7  | 2.2    | 0.005                          |      |      |      |
|          | 71.1                                             | 73.3  | 2.2    | 0.009                          |      |      |      |
|          | 129.2                                            | 131.1 | 1.9    | 0.017                          |      |      |      |
| 151.1    | 156.9                                            | 5.8   | 0.006  |                                |      |      |      |
| 51528    | 28.8                                             | 30.0  | 1.2    | 0.007                          |      |      |      |
|          | 81.1                                             | 84.3  | 3.2    | 0.005                          |      |      |      |
|          | 105.0                                            | 107.0 | 2.0    | 0.013                          |      |      |      |
| 51529    | 87.9                                             | 88.2  | 0.3    | 0.006                          |      |      |      |
|          | 158.9                                            | 163.9 | 5.0    | 0.065                          |      |      |      |
| 51530    | No assays over 0.001                             |       |        |                                |      |      |      |

ABBREVIATIONS FOR USE

IN LOGGING BORE HOLES

|                 |      |
|-----------------|------|
| ABUNDANT        | ABNT |
| ACCESSORY       | ASSR |
| ACID DYKE       | ACDK |
| ACICULAR        | ACLR |
| ACIDIC          | AC   |
| ACID HORNFELS   | ACHF |
| ACTINOLITE      | ACT  |
| ACTINOLITIC     | ACTC |
| AGGLOMERATE     | AGLM |
| ALBITIZATION    | ALBZ |
| ALASKITE        | ALSK |
| ALTERATION      | ALTN |
| ALTERED         | ALTD |
| ALTERNATING     | ALR  |
| AMORPHOUS       | AMRP |
| AMOUNT          | AMT  |
| AMPHIBOLE       | AMPB |
| AMPHIBOLITE     | AMPH |
| AMPHIBOLITIC    | AMPC |
| AMYGDALOIDAL    | AMYG |
| AMYGDULE        | AMGD |
| ANDESITE        | ANDS |
| ANGULAR         | AGLR |
| ANHEDRAL        | ADRL |
| ANORTHOSITE     | AN   |
| ANORTHOSITIC    | ANIC |
| ANORTHOPHYLLITE | ANPL |
| APHANITIC       | APNC |
| APLITE          | APL  |
| APLITIC         | APLC |
| APPEARANCE      | APRC |
| APPROXIMATE     | APRX |
| ARGILLACEOUS    | AGLC |
| ARKOSE          | ARK  |
| ARSENIDE        | ARSD |
| ASBESTOS        | AB   |
| ATTITUDE        | ATID |
| ATTENUATED      | ATND |
| AUGEN           | AGN  |

|                  |      |
|------------------|------|
| BAND             | BND  |
| BANDED           | BNDD |
| BANDS            | BNDS |
| BARREN           | BRN  |
| BASAL            | BSL  |
| BASALT           | BSLT |
| BASIC DYKE       | BCDK |
| BASIC HORNFELS   | BAHF |
| BEARING          | BRG  |
| BECOMING         | BCMG |
| BED              | BD   |
| BEDDING          | BDG  |
| BIOTITE          | BIOT |
| BLACK            | BK   |
| BLEBS            | BLBS |
| BLEBY            | BLBY |
| BLOCKY           | BCKY |
| BLOTCHY GABBRO   | BGAB |
| BORNITE          | BN   |
| BOULDER          | BLDR |
| BOULDERS         | BLDS |
| BREAK            | BRK  |
| BRECCIA          | BX   |
| BRECCIATED       | BXTD |
| BRECCIA MATRIX   | BXMX |
| BRECCIA SULPHIDE | BXSU |
| BRITTLE          | BRTL |
| BROWN            | BRWN |

|                 |      |
|-----------------|------|
| CALCAREOUS      | CLCR |
| CALCIC          | CLC  |
| CALCITE         | CALC |
| CARBONATE       | CARB |
| CARBONATED      | CRBD |
| CARBONATE ROCK  | CBRK |
| CARBONATITE     | CBNT |
| CASING          | CAS  |
| CAVITIES        | CVTS |
| CEMENTED        | CMTD |
| CHALCOPYRITE    | CP   |
| CHERT           | CHRT |
| CHERTY          | CHTY |
| CHICKEN - TRACK | CKTK |
| CHILLED         | CHLD |

|                |      |
|----------------|------|
| CHLORITE       | CHL  |
| CHLORITIC      | CHLC |
| CLASTS         | CLTS |
| CLEAVAGE       | CLVG |
| CLUSTER        | CLSR |
| COARSE GRAINED | CG   |
| COARSER        | CRSR |
| COMPLEX        | CPLX |
| COMPOSED       | CPMD |
| COMPOSITION    | CPSN |
| CONCENTRATION  | CCTN |
| CONCHOIDAL     | CNDL |
| CONCORDANT     | CCRD |
| CONCRETION     | CRTN |
| CONDUCTOR      | CDCR |
| CONDUCTIVE     | CDCV |
| CONFORMABLE    | CFMB |
| CONGLOMERATE   | CONG |
| CONSTITUENT    | CONS |
| CONTACT        | CT   |
| LOWER CONTACT  | LCT  |
| UPPER CONTACT  | UCT  |
| CONTENT        | CNTN |
| CONTORTED      | CNRD |
| CORE           | CORE |
| CRUSHED CORE   | CC   |
| BROKEN CORE    | BC   |
| GROUND CORE    | GC   |
| LOST CORE      | LC   |
| CORONA         | CRN  |
| COUNTRY ROCK   | CTRK |
| CRINKLES       | CNKS |
| CROSS BEDS     | XBDS |
| CROSS BEDED    | XBDD |
| CROSS BEDDING  | XBDG |
| CROSS CUTTING  | XCTG |
| CROSSFIBER     | CSFB |
| CRYSTAL        | XTL  |
| CRYSTALS       | XTLS |
| CRYSTALLINE    | XLLS |
| LIMESTONE      |      |
| CUBANITE       | CUB  |

|              |      |
|--------------|------|
| DACITE       | DCT  |
| DARK         | DK   |
| DECREASE     | DCRS |
| DECREASING   | DCRG |
| DEGREE       | DEG  |
| DENSE        | DS   |
| DEPOSITION   | DPSN |
| DEPOSITIONAL | DPSL |
| DEVELOP      | DVLP |
| DEVELOPED    | DVPD |
| DIABASE      | DIA  |
| DIABASIC     | DIAC |
| DIORITE      | DIO  |
| DISPLACEMENT | DPCM |
| DISSEMINATED | DISS |
| DISSOLUTION  | DSL  |
| DISTINCT     | DSNC |
| DISTINCTLY   | DSCL |
| DOLOMITE     | DLMT |
| DOWNWARDS    | BRDS |
| DOWN HOLE    | DH   |
| DRILLED      | DRLD |
| DUNITE       | DNT  |

|                |      |
|----------------|------|
| ELONGATED      | ELGD |
| ENRICHED       | ERCD |
| EPIDOTE        | EPID |
| EPIDOTIZED     | EPDZ |
| EQUIGRANULAR   | EQGR |
| ESTIMATE       | EST  |
| ESTIMATED      | ESTD |
| ESTIMATION     | ESTN |
| EXTREMELY      | EXML |
| EUHEDRAL - SEE |      |
| UHEDRAL        |      |
| EXPLANATION    | EXPL |
| EXTENSIVE      | EXSV |

|              |      |
|--------------|------|
| FABRIC       | FBRC |
| FAINT        | FNT  |
| FAULT        | FLT  |
| FAULTED      | FLTD |
| FELDSPAR     | FSP  |
| FELDSPATHIC  | FSPC |
| FELDSPAR     | FDPR |
| PORPHYRY     |      |
| FELSIC       | FLSC |
| FELSITE      | FELS |
| FIBROUS      | FBRs |
| FILLING      | FLLG |
| FINE         | FN   |
| FINE GRAINED | FG   |
| FLECKs       | FLCK |
| FOLIATED     | FOTD |
| FOLIATION    | FOTN |
| FOLLOWING    | FLNG |
| FOOTWALL     | FW   |
| FOOT OF HOLE | FOH  |
| FRACTURE     | FRCT |
| FRACTURED    | FRCD |
| FRACTURES    | FRCS |
| FRAGMENT     | FRGM |
| FRAGMENTAL   | FRML |
| FRAGMENTS    | FGMS |
| FREQUENT     | FRQN |
| FRIABLE      | FRBL |

|               |       |
|---------------|-------|
| GABBRO        | GAB   |
| GABBROIC      | GBIC  |
| GALENA        | GAL   |
| GARNET        | GAR   |
| GARNETIFEROUS | GRFR  |
| GERSDORFFITE  | GERS  |
| GLASSY        | GLSY  |
| GNEISS        | GN    |
| ORTHOGNEISS   | ORGN  |
| PARAGNEISS    | PRGN  |
| GNEISSIC      | GNSC  |
| GRADATIONAL   | GRNLX |
| GRADING       | GRDG  |
| GRAIN         | G     |
| GRAINS        | GRNS  |

|                 |       |
|-----------------|-------|
| GRANITE         | GR    |
| GRANITE BRECCIA | GR BX |
| GRANITE GNEISS  | GRGN  |
| GRANITIC        | GRNC  |
| GRANITIZED      | GRZD  |
| GRANITIZATION   | GRZN  |
| GRANODIORITE    | GRDR  |
| GRANOPHYRE      | GRP   |
| GRANOPHYRIC     | GRPR  |
| GRANULAR        | GRLR  |
| GRANULITE       | GRNL  |
| GRAPHIC         | GPHC  |
| GRAPHITE        | GRPT  |
| GRAPHITIC       | GRPC  |
| GRAVEL          | GRVL  |
| GREEN           | GRN   |
| GREENSTONE      | GS    |
| GREY            | GY    |
| GREYWACKE       | GWKE  |

|                |      |
|----------------|------|
| HABIT          | HBT  |
| HALOS          | HLOS |
| HANGINGWALL    | HW   |
| HEMATITE       | HEM  |
| HETEROGENEOUS  | HNGS |
| HIGHLY         | HLY  |
| HOMOGENEOUS    | HMGS |
| HORNBLENDE     | HBL  |
| HORNBLENDITE   | HBLT |
| HORNFELS       | HRFL |
| HOST ROCK      | HSRK |
| HYPIDIOMORPAIC | HPMC |

IMPURE  
 IMPURITIES  
 INCLUSION  
 INCLUSIONS  
 INCREASED  
 INCREASING  
 INDISTINCT  
 INTENSE  
 INTERCALATED  
 INTERGRANULAR  
 INTERGROWN  
 INTERGROWTH  
 INTERMEDIATE  
 INTERSTITIAL  
 SULPHIDE  
 INTRUSIVE  
 IRREGULAR  
 IRON FORMATION

IMP  
 IMPR  
 INCL  
 INCS  
 ICRD  
 ICRG  
 IDSC  
 INTS  
 IRTD  
 IRGL  
 IRGR  
 IRGH  
 IRMD  
 INSU  
 INTR  
 IREG  
 IF

JOINT  
 JOINTED  
 JOINTING  
 JOINTS

JT  
 JTD  
 JTG  
 JTS

LAMELLAR  
 LAMINATED  
 LAMINATION  
 LAMPROPHYRE  
 LAPPILLI\_TUFF  
 LEFT  
 LENS  
 LENSES  
 LEUCOCRATIC  
 LIMONITE  
 LIMESTONE  
 LINEAMENT  
 LINEATED  
 LINEATION

LMLR  
 LMND  
 LMNN  
 LAMP  
 LPTF  
 LFT  
 LNS  
 LNSS  
 LCRT  
 LIM  
 LS  
 LNMT  
 LNTD  
 LNTN

LIGHT  
 LIGHTER  
 LOCALLY  
 LOWER  
 LUNATE  
 LUSTER

LT  
 LGTR  
 LOCL  
 LOWR  
 LNT  
 LSTR

MAFIC  
 MAFICS  
 MAGNETIC  
 MAGNETITE  
 MARBLE  
 MARGINAL  
 MASSIVE  
 MASSIVE SULPHIDE  
 MATERIAL  
 MATRIX  
 MEDIUM  
 MEDIUM GRAINED  
 MELANOCRATIC  
 METACRYST  
 METADIABASE  
 METADIORITE  
 METAGABBRO  
 METAMORPHIC  
 METAMORPHOSED  
 METASEDIMENT  
 MICACEOUS  
 MIGMATITE  
 MIGMATITIC  
 MILLERITE  
 MINERAL  
 MINERALIZED  
 MINERALIZED STRONGLY  
 MINERALIZED WEAKLY  
 MINERALIZED VERY  
 WEAKLY  
 MINERALIZED VERY VERY  
 WEAKLY  
 MINOR  
 MODERATE  
 MODERATELY  
 MONZONITE  
 MOTTLED  
 MUSKEG  
 MYLONITE

MFC  
 MFCS  
 MTC  
 MT  
 MRBL  
 MGNL  
 MASS  
 MASU  
 MTRL  
 MTX  
 MED  
 MG  
 MLNC  
 MTCR  
 MTDB  
 MTDR  
 MTGB  
 MTMC  
 MMPD  
 MTSD  
 MICS  
 MGMT  
 MGMC  
 MLT  
 MIN  
 M  
 MS  
 MW  
 MVW  
 MNOR  
 MOD  
 MODY  
 MONZ  
 MTLD  
 MSKG  
 MYL

|               |      |
|---------------|------|
| MYLONITIC     | MYLC |
| MYLONITIZED   | MYLD |
| NEMATOBlastic | NMBC |
| NICCOLITE     | NC   |
| NODULES       | NDLS |
| NUMEROUS      | NMRS |
| NUMBERS       | NMBS |

|                 |      |
|-----------------|------|
| OCCASIONAL      | OCC  |
| OFFSET          | OFST |
| OLIVINE         | OLVN |
| OLIVINE DIABASE | OD   |
| OPHITIC         | OPTC |
| ORBICULAR       | OBCL |
| ORE BODY        | OBDY |
| OUTCROP         | OC   |
| OVERBURDEN      | OB   |
| OXIDIZATION     | OXDN |
| OXIDIZED        | OXDD |

|                |      |
|----------------|------|
| PANDIOMORPHIC  | PNMC |
| PARALLEL       | PLL  |
| PART           | PRT  |
| PARTING        | PRNG |
| PARTLY         | PTLY |
| PEBBLE         | PBL  |
| PEBBLES        | PBLS |
| PEGMATITE      | PEG  |
| PEGMATITIC     | PGTC |
| PENTLANDITE    | PN   |
| PERCENT        | PCNT |
| PERCRYSTALLINE | PRCL |
| PERIDOTITE     | PRDT |
| PERMAFROST     | PRMF |
| PERPENDICULAR  | PPDC |
| PHENOCRYSTS    | PHCR |
| PHILOGOPITE    | PHLG |
| PHYLLITE       | PLLT |
| PICROLITE      | PCLT |

|                 |       |
|-----------------|-------|
| PINK            | PK    |
| PLAGIOCLASE     | PLAG  |
| POLYMICITIC     | PLMC  |
| POROUS          | POR   |
| PORPHYROBLAST   | PRBT  |
| PROPHYROBLASTIC | PPBC  |
| PORPHYRITIC     | PRPC  |
| PORPHYRY        | PRPH  |
| POSSIBLE        | PSBL  |
| POSSIBLY        | PSBLY |
| PREDOMINANT     | PRDM  |
| PREDOMINANTLY   | PRDL  |
| PRESENT         | PRSN  |
| PRIMARY         | PRM   |
| PROGRESSIVE     | PRGS  |
| PTYGMATIC       | PGMC  |
| PTYGMATICALLY   | PGMY  |
| PYRITE          | PY    |
| PYRITIC         | PYC   |
| PYROCLASTIC     | PCLC  |
| PYROXENE        | PRXN  |
| PYROXENITE      | PXT   |
| PYRRHOTITE      | PO    |

|                |      |
|----------------|------|
| QUARTZ         | QTZ  |
| QUARTZITE      | QTE  |
| QUARTZ DIABASE | QDIA |
| QUARTZ DIORITE | QD   |

|                |      |
|----------------|------|
| RADIOACTIVE    | RDCV |
| NONRADIOACTIVE | NDCV |
| RADIOMETRIC    | RDMC |
| RAGGED         | RGD  |
| RECRYSTALLIZED | RCZD |
| RELATIVELY     | RLVL |
| RELICT         | RLCT |
| REMNANT        | RMNT |
| REMNANTS       | RMNS |
| RHYODACITE     | RDCT |
| RHYOLITE       | RHY  |
| RIGHT          | RT   |
| ROCK           | RK   |
| ROCKS          | RX   |
| ROSETTE        | RST  |
| ROUND          | RND  |
| ROUNDED        | RNDD |
| RUDACEOUS      | RDCS |
| RUSTY          | TSTY |

|               |      |
|---------------|------|
| SALIC         | SLC  |
| SANDSTONE     | SS   |
| SATURATED     | SATD |
| SAUSSURITIZED | SRZD |
| SCATTERED     | SCTD |
| SCHIST        | SCH  |
| SCHISTED      | SCHD |
| SCHISTING     | SCHG |
| SCHISTS       | SCHS |
| SCHISTOSE     | SCSS |
| SCHISTOSITY   | SCSY |
| SEDIMENT      | SED  |
| SEDIMENTARY   | SDMR |
| SEDIMENTS     | SEDS |
| SECTION       | SCTN |
| SEGMENT       | SGMT |
| SEGMENTED     | SGMD |
| SEGMENTS      | SGMS |
| SEGREGATED    | SGGD |
| SEGREGATION   | SGN  |
| SEGREGATIONS  | SGNS |
| SERICITE      | SRCT |

|                   |      |
|-------------------|------|
| SERICITIC         | SRCC |
| SERPENTINE        | SRPN |
| SERPENINITE       | SRPT |
| SERPENTINIZED     | SRPD |
| SERPENTINIZED     |      |
| PERIDOTITE        | SPPD |
| SEVERAL           | SVRL |
| SHALE             | SHL  |
| SHARDS            | SRDS |
| SHEAR             | SHR  |
| SHEARED           | SHRD |
| SHEARING          | SHRG |
| SILICEOUS         | SLCS |
| SILICIFIED        | SLFD |
| SILTSTONE         | SLTS |
| SILLIMANITE       | SLMN |
| SKARN             | SKN  |
| SKELETAL          | SKLL |
| SLATE             | SLT  |
| SLICKENSIDED      | SCKD |
| SLIKESIDES        | SCKS |
| SLIGHT            | SLI  |
| SLIGHTLY          | SLLY |
| SLIPS             | SLPS |
| SLUDGE            | SLDG |
| SMALL             | SML  |
| SLUMPING          | SMPG |
| SOLUTION          | SLTN |
| SPECKS            | SPK  |
| SPECKS            | SPKS |
| SPHALERITE        | SPH  |
| STAINING          | SNNG |
| STEATITE          | STTT |
| STEATIZED         | STZD |
| STREAK            | STK  |
| STREAKS           | STKS |
| STRINGER          | STR  |
| STRINGERS         | STRS |
| STRONG            | STRG |
| STRONGLY          | STGL |
| STRUCTURE         | STRT |
| SUBHEDRAL         | SBRL |
| SULPHIDE          | SULP |
| SURROUND          | SRND |
| SURROUNDED        | SRDD |
| SURROUNDING       | SRDG |
| SYENITE           | SYNT |
| AUGITE SYENITE    | ASYN |
| NEPHELINE SYENITE | NSYN |

|            |      |
|------------|------|
| TEXTURE    | TXTR |
| THROUGHOUT | TRGT |
| TRACE      | TR   |
| TRACHYTE   | TRCT |
| TRANSITION | TRNS |
| TREMOLITE  | TREM |
| TREMOLITIC | TRMC |
| TOURMALINE | TMLN |
| TOURQUOIS  | TRQS |
| TUFFACEOUS | TFCS |
| TUFFITE    | TUFI |
| UHEDRAL    | UDRL |
| ULTRABASIC | UB   |
| ULTRAMAFIC | UM   |
| UNDULATING | UDLG |
| UPWARDS    | UPRD |
| UPHOLE     | UH   |

|             |      |
|-------------|------|
| VEINLETS    | VNLS |
| VEINING     | VNNG |
| VERY COARSE |      |
| GRAINED     | VCG  |
| VESICULAR   | VSC  |
| VIOLARITE   | VT   |
| VITREOUS    | VTRS |
| VOLCANIC    | VOLC |

|        |      |
|--------|------|
| WEAK   | WK   |
| WEAKLY | WKLY |
| WHITE  | WHT  |

|        |     |
|--------|-----|
| YELLOW | YLW |
|--------|-----|

3500 W

3000 W

2500 W

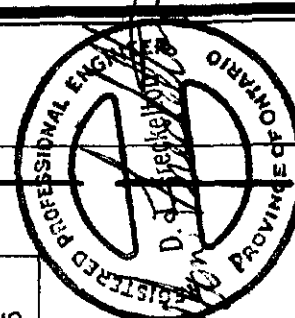
2000 W

1500 W

1000 W

500 W

|   |    |    |
|---|----|----|
| 2 | 12 | 13 |
| 3 | 11 | 14 |
| 4 | 10 | 15 |
| 5 | 9  |    |
| 6 | 8  |    |



Canadian Nickel Company, Ltd.  
GEOLOGY SURVEY  
EAGLE NEST URANIUM MINES PROPERTY  
DUNGANNON and FARADAY TOWNSHIPS  
HASTINGS COUNTY  
EASTERN ONTARIO MINING DIVISION

SCALE: 1 IN. = 100 FT.  
REF: CONTRACT EO-2

LEGEND

| SYMBOLS                |                                                    |
|------------------------|----------------------------------------------------|
| Area of outcrop        | ○                                                  |
| Single outcrop         | △                                                  |
| Geological contacts    | — Defined<br>— Assumed                             |
| Fault                  | —                                                  |
| Foliation              | — Inclined<br>— Unknown<br>— Vertical<br>— Unknown |
| Jointing               | —                                                  |
| Basal pit              | ○                                                  |
| Dike showing dip       | —                                                  |
| Borehole               | —                                                  |
| Sample site            | ●                                                  |
| Shoreline (lake, pond) | —                                                  |
| Swamp                  | —                                                  |
| Road                   | —                                                  |

LITHOLOGY

GRANITIC ROCKS

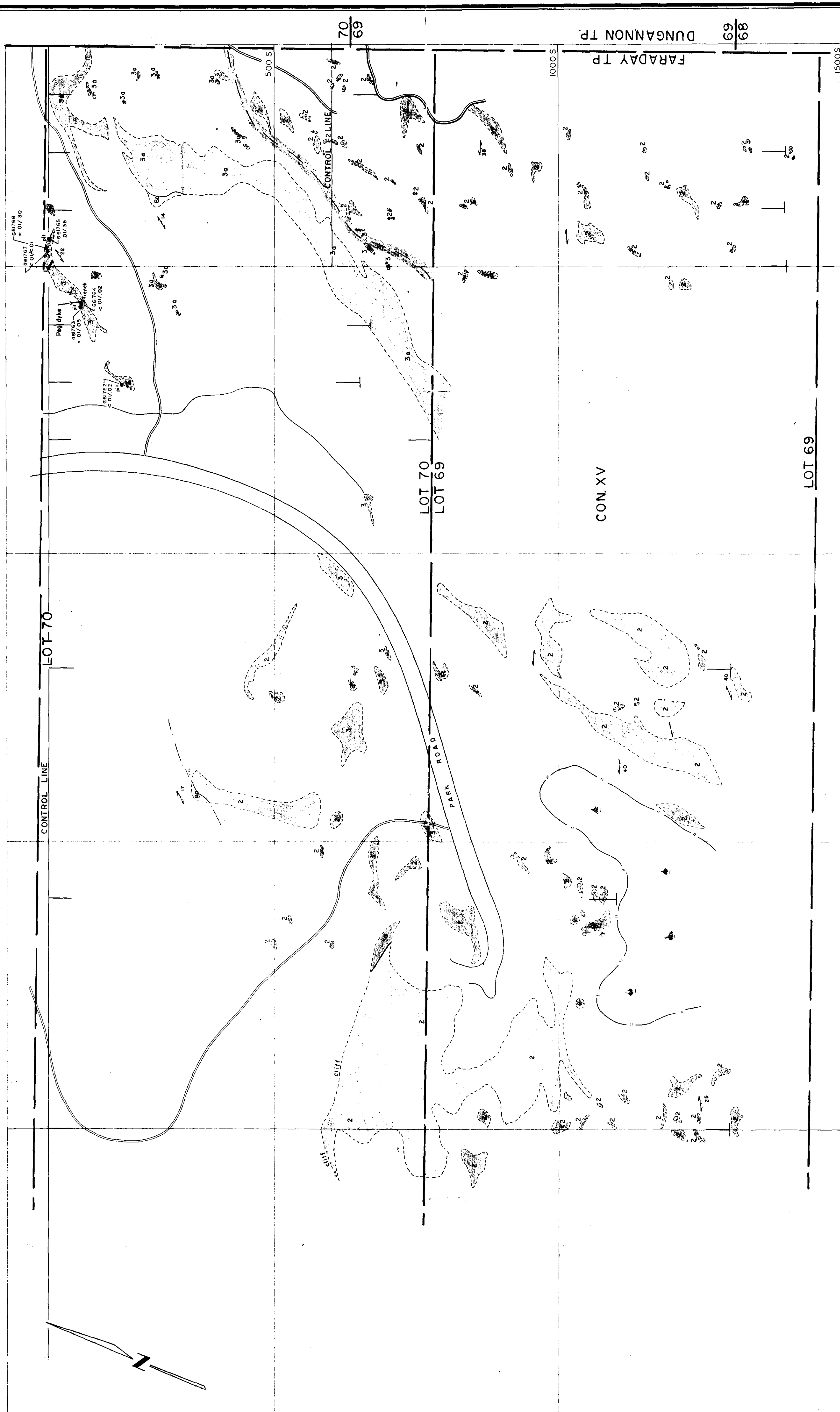
- PEGMATITE: var/ coarse grained, quartz, microcline, minor magnetite, pink to buff. Banded feldspar variety associated with radioactivity.
- GRANITE GNEISS: medium grained, buff to pink, foliation due to lineation of segregated lenticular quartz and feldspar. Granular, friable on weathered surface, acc. massive and grading into m. g. granite.
- GRANITE: (a) Lenses, granitic, fine grained, massive to weakly foliated with a porphyroblast bearing up to 10% foliated porphyroblasts. (b) Hybrid Syenite, syenite with included feldspar and magnetite. (c) Hybrid granite, display feldspar banding and magnetite segregation. (d) Hybrid granite, Granite with relict metasediments: fg - m. g., with inclusions and 1-5 continuous bands of relict paragneisses and syenite. Biotite, magnetite are acc. matrix.
- MIGMATITE: includes lit-par-lit and injected gneisses.

SYENITIC ROCKS

- SYENITE: (a) fg to mg, massive, non foliated. Grades to monzonite and more mafic varieties. Occ. pyroxene bearing. Includes banded syenite gneisses. (b) Hybrid Syenite, syenite with included feldspar and magnetite. (c) Hybrid syenite, syenite with included feldspar and magnetite. (d) Hybrid syenite, syenite with included feldspar and magnetite.
- NEPHELINE SYENITE: fg to m. g. pitted weathering texture, white fresh surface. Often foliated with biotite and acc. relict paragneiss inclusions. Nepheline content varies from < 5% to 15%.

METASEDIMENTS

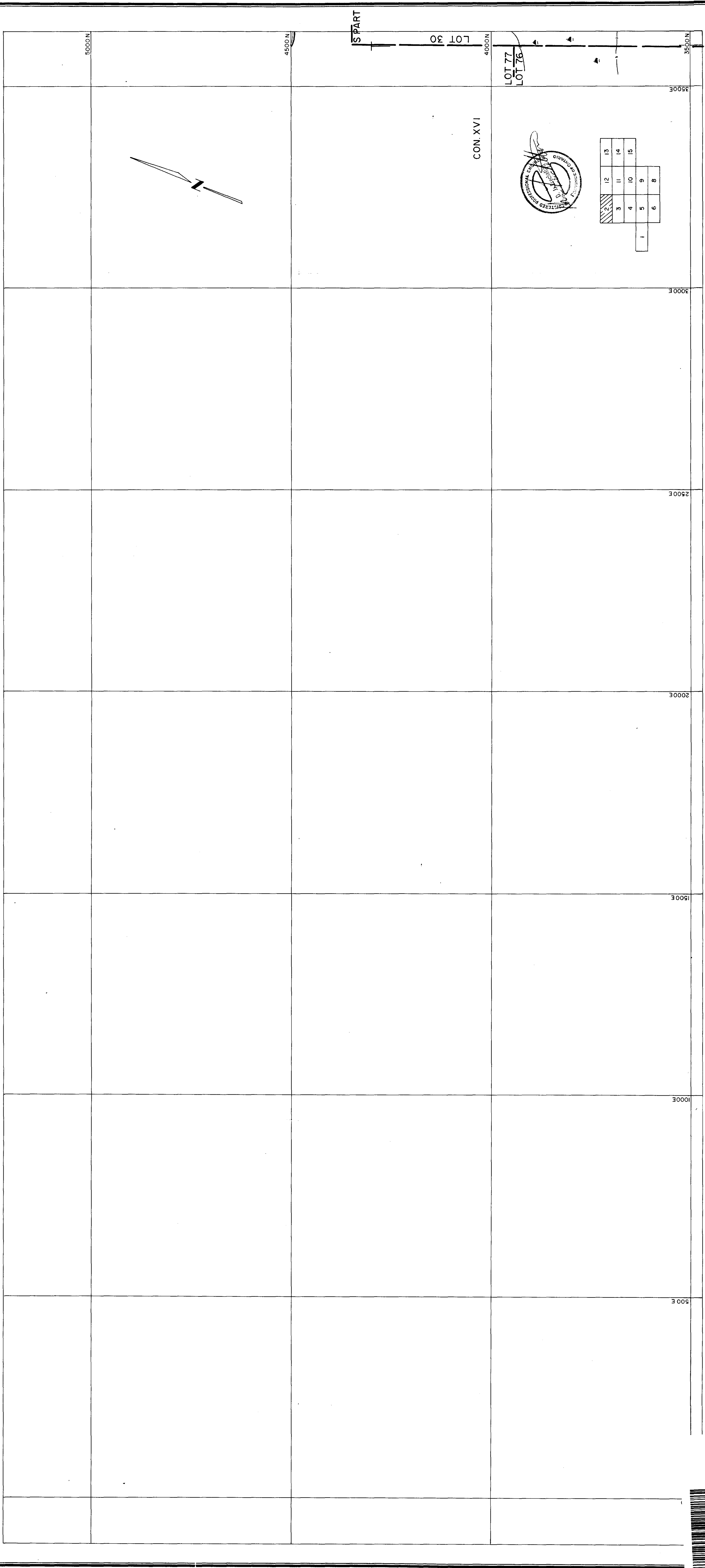
- MARBLE: Mg. to c. a. crystalline, white to blue grey, includes nearly pure calc-silicate marble to silicified and calc-silicate rich members. Calc-silicates include phlogopite, opatite, pyroxene, (diopside) and possible tremolite.
- PARAGNEISS: Fine grained, generally well foliated, (a) quartz - feldspathic, biotite-magnetite (garnet) gneiss, (b) Amphibole - plagioclase gneiss, (c) Metasediments with granitic inclusions, (d) Syenitized paragneisses.





314-000000 00-0000 00-0000

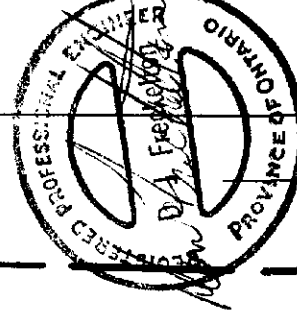
63.3373





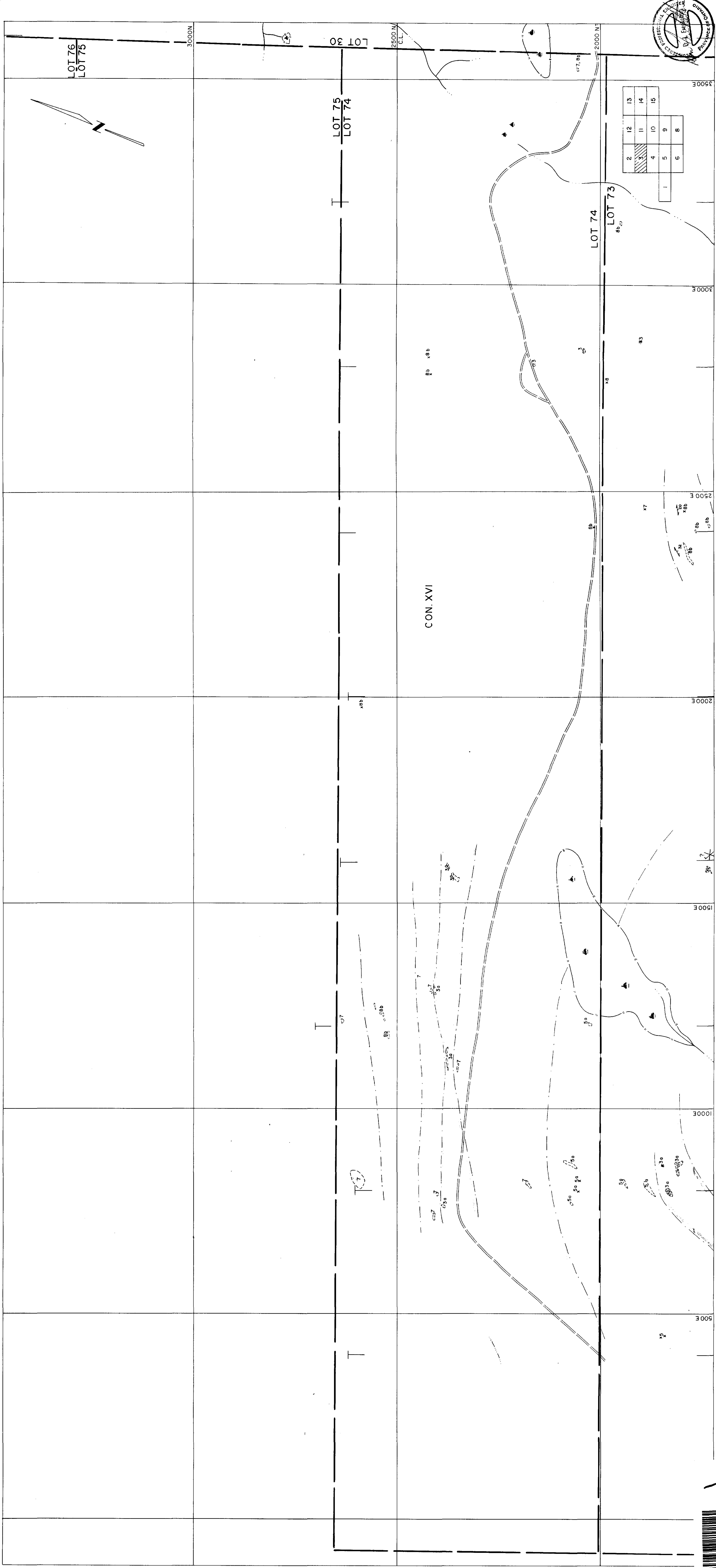
3178489468 63 3373 DARGANNON

220



|   |    |    |
|---|----|----|
| 2 | 12 | 13 |
| 3 | 11 | 14 |
| 4 | 10 | 15 |
| 5 | 9  |    |
| 6 | 8  |    |

|   |  |
|---|--|
| 1 |  |
|---|--|



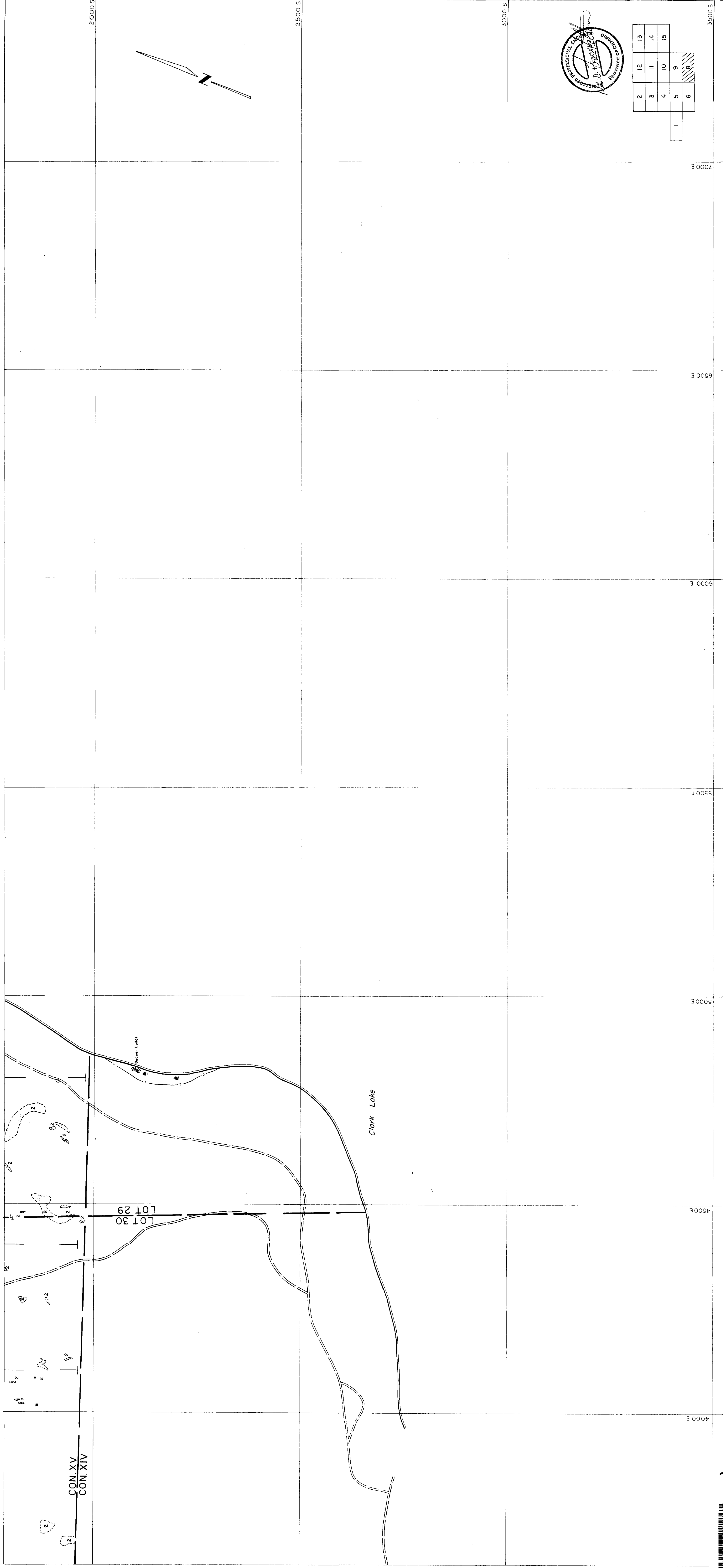








3 744 337 63 3373 260







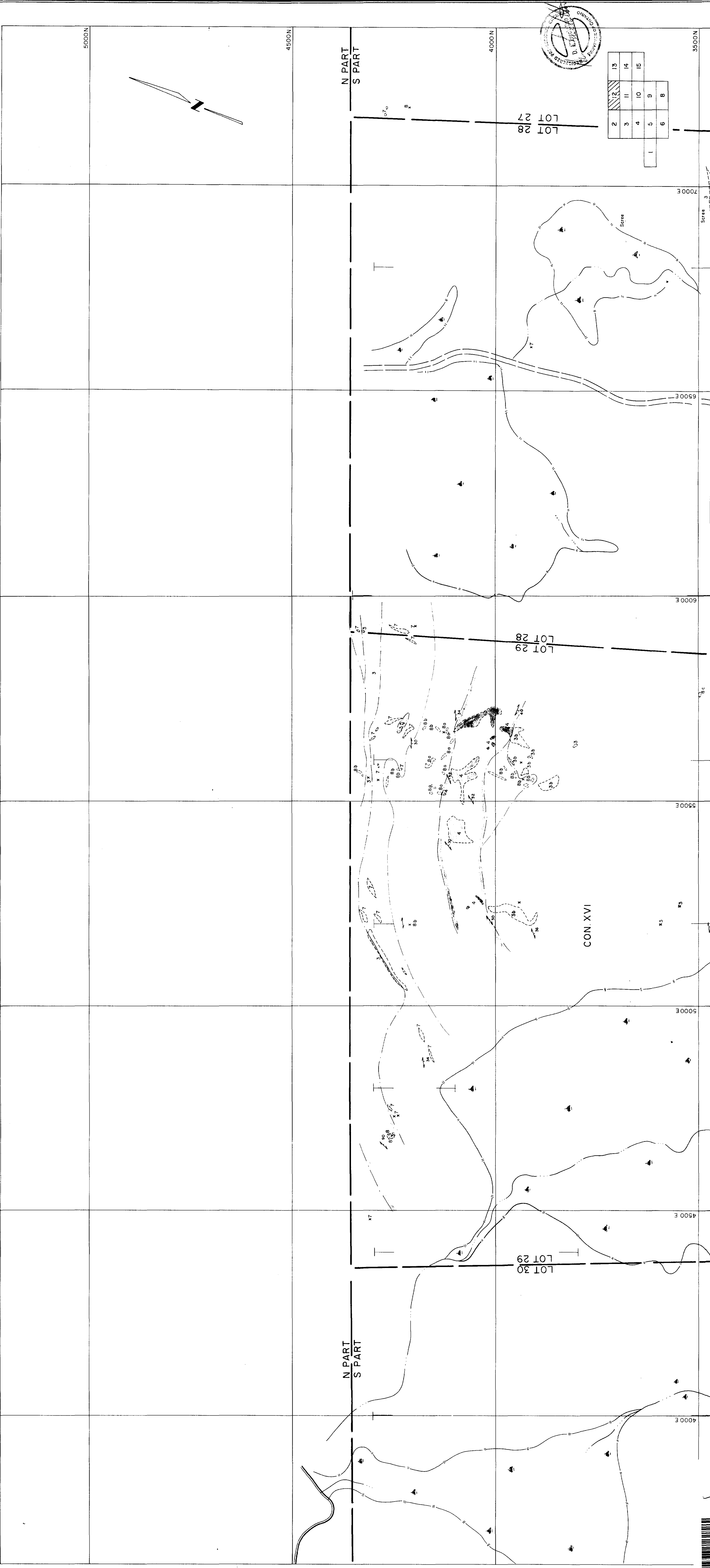
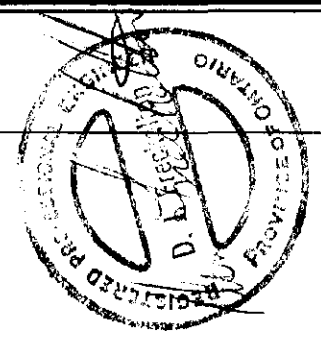




31FAS5946 63 3373 DUNGANON

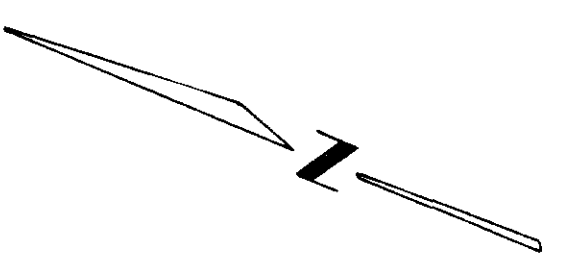
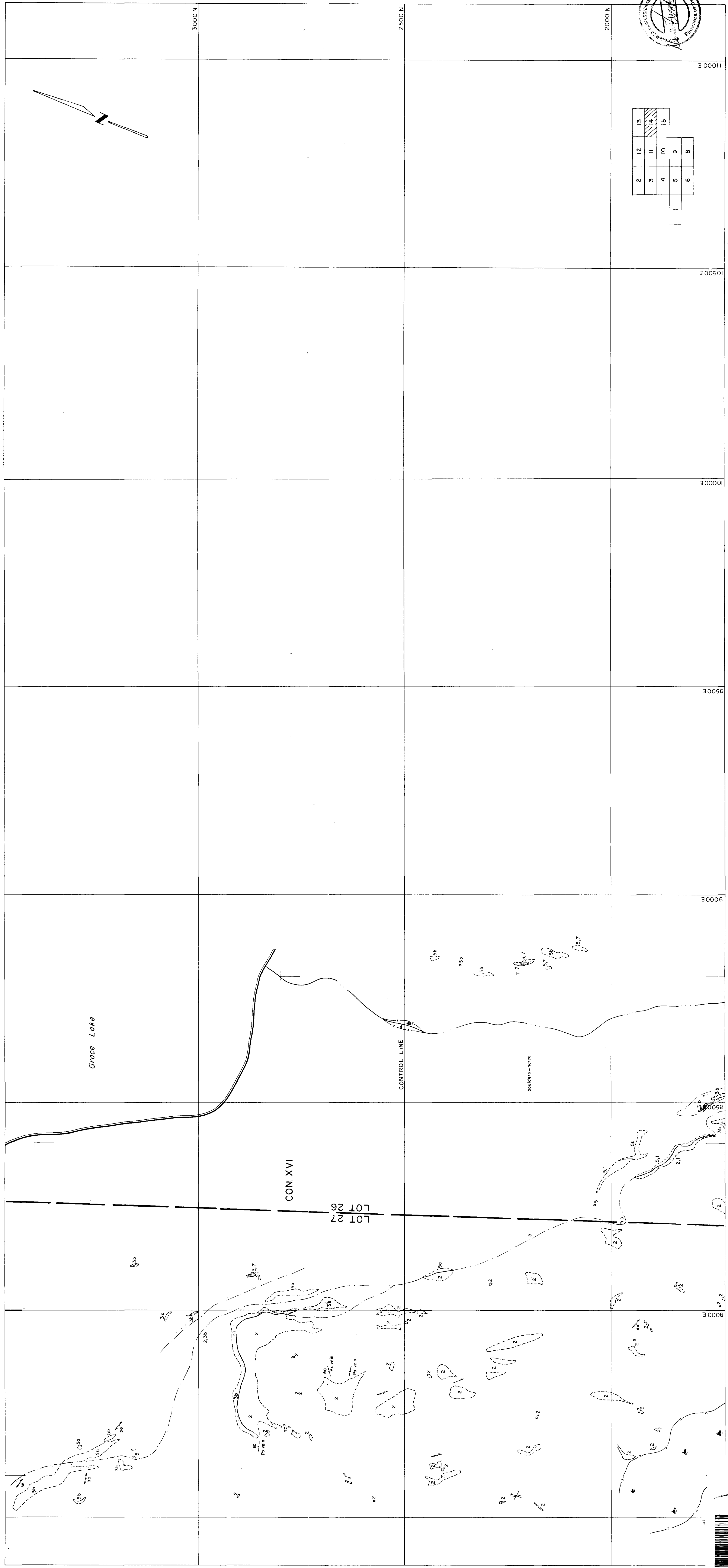
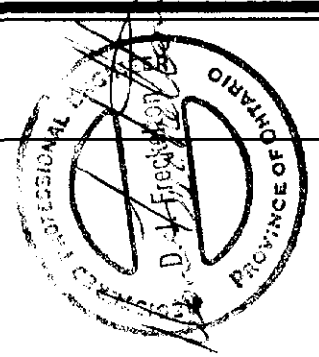
300

|   |    |    |
|---|----|----|
| 2 | 12 | 13 |
| 3 | 11 | 14 |
| 4 | 10 | 15 |
| 5 | 9  |    |
| 6 | 8  |    |
| 1 |    |    |





|   |    |    |
|---|----|----|
| 2 | 12 | 13 |
| 3 | 11 | 14 |
| 4 | 10 | 15 |
| 5 | 9  |    |
| 6 | 8  |    |
| 1 |    |    |



3000 N

2500 N

2000 N

11000 E

10500 E

10000 E

9500 E

9000 E

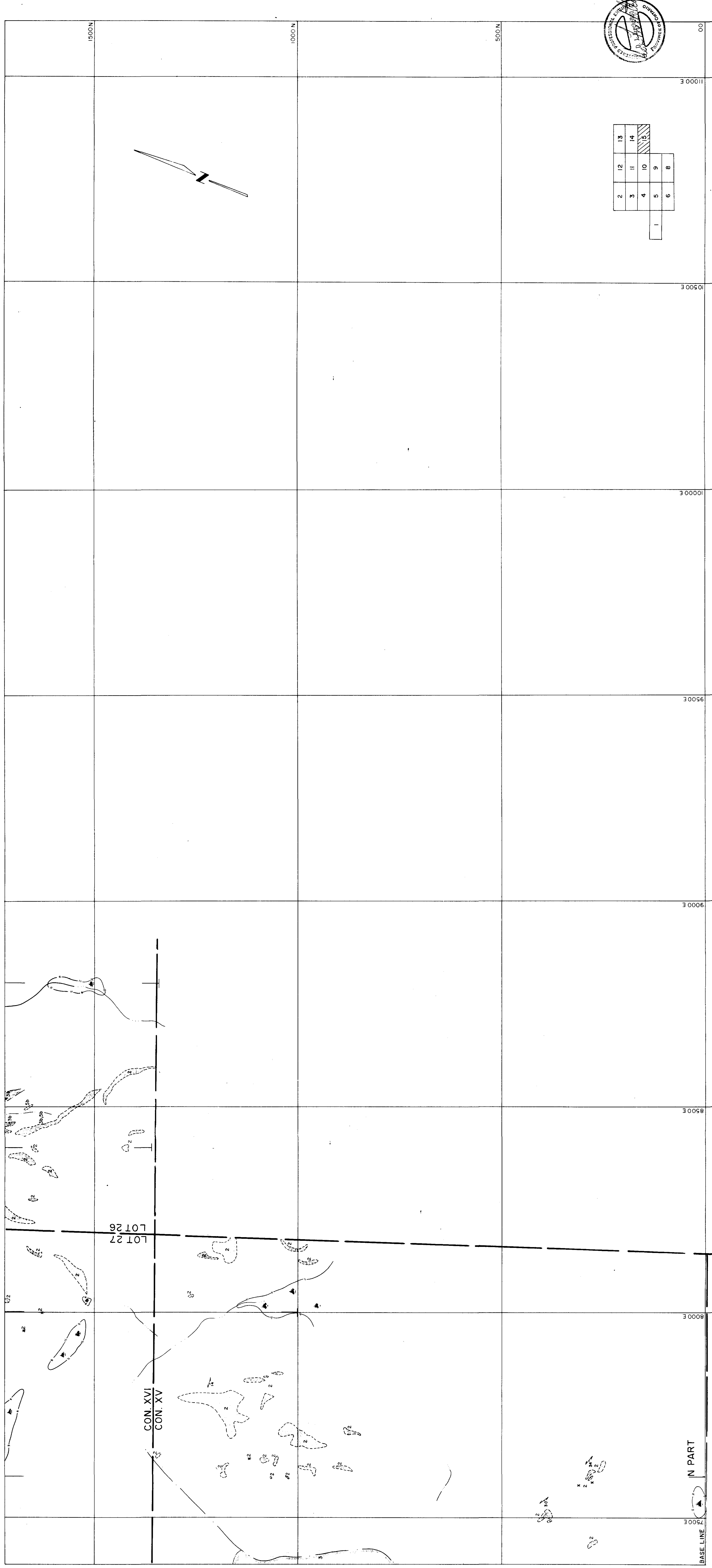
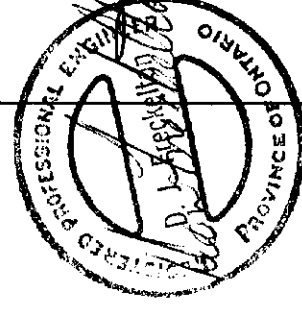
8000 E



BASE LINE N PART



|   |    |    |    |    |    |
|---|----|----|----|----|----|
| 1 | 2  | 3  | 4  | 5  | 6  |
|   | 8  | 9  | 10 | 11 | 12 |
|   | 13 | 14 | 15 | 16 | 17 |

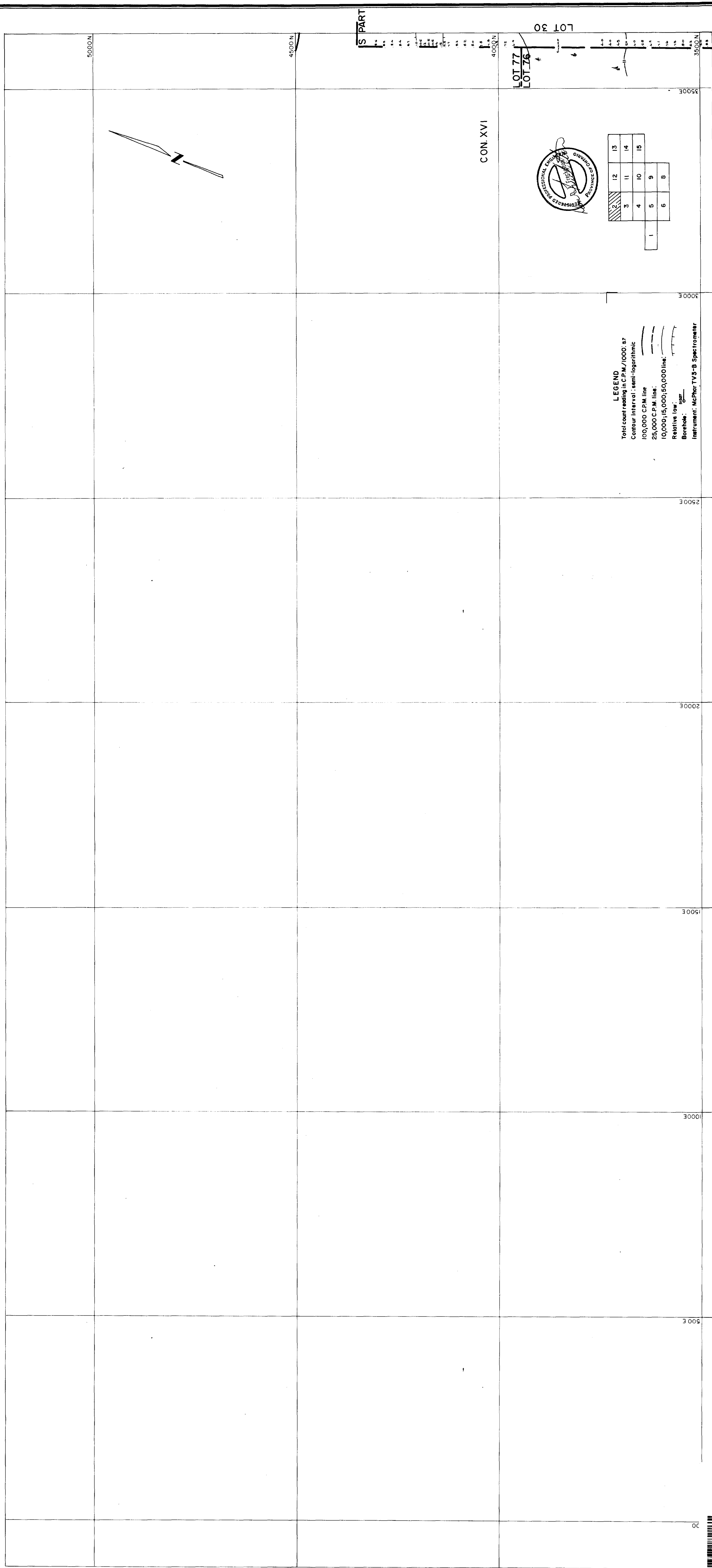






11/04/2008 11:37:23 00000000

350

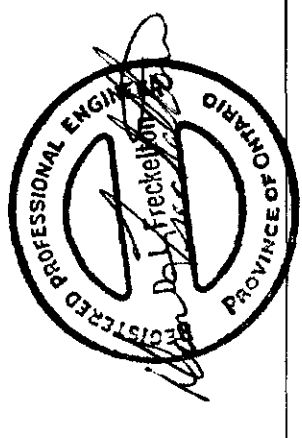
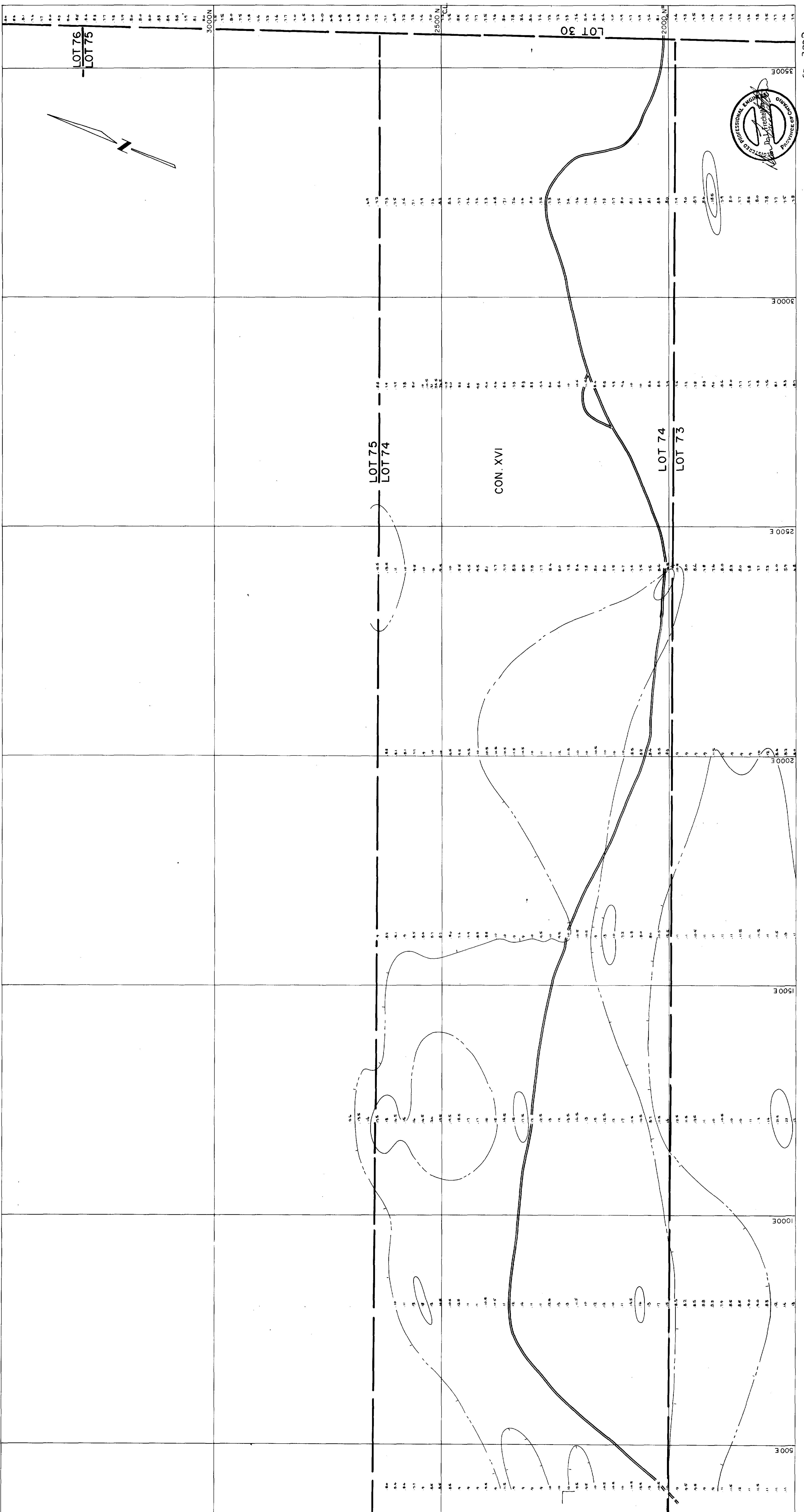




2104-00000 01-3073 DUNDAS

|   |   |    |    |
|---|---|----|----|
|   | 2 | 12 | 13 |
|   | 3 | 11 | 14 |
| 1 | 4 | 10 | 15 |
|   | 5 | 9  | 8  |
|   | 6 |    |    |

LEGEND  
Total count reading in C.P.M./1000' at  
Contour interval: semi-logarithmic  
100,000 C.P.M. line  
25,000 C.P.M. line  
10,000; 15,000; 50,000 line  
Relative low  
Borehole  
Instrument: McPhar TVS-B Spectrometer





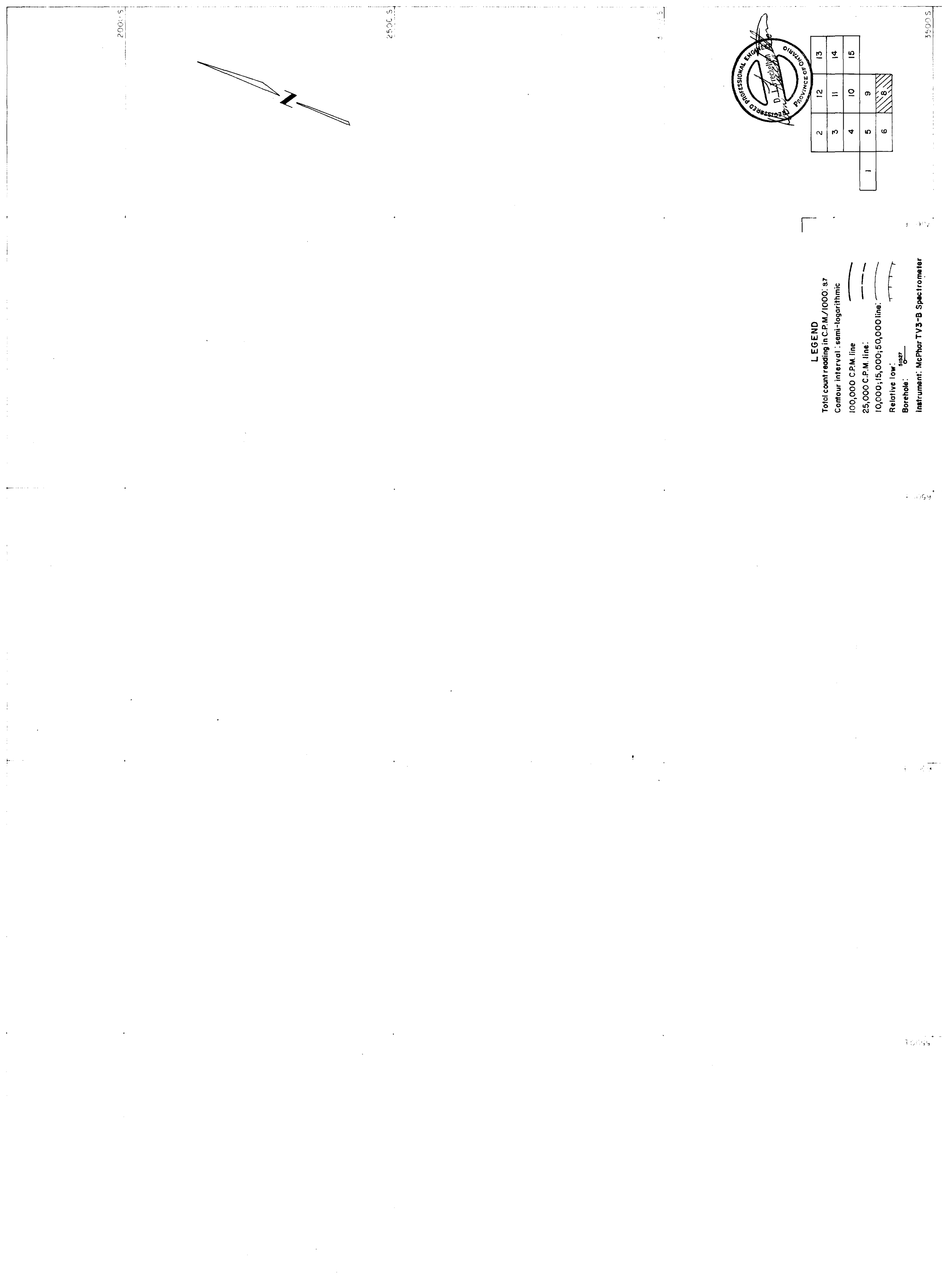
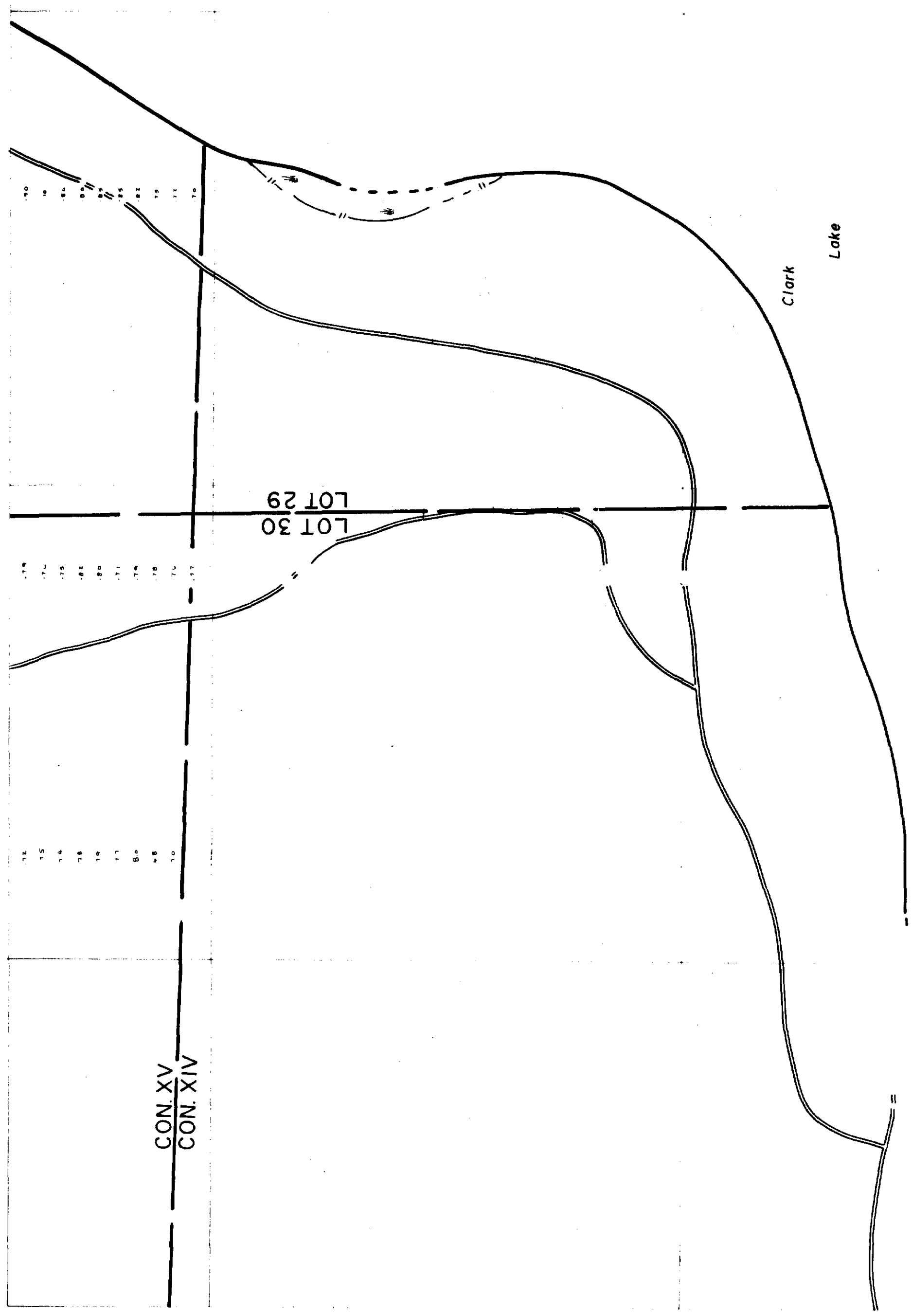






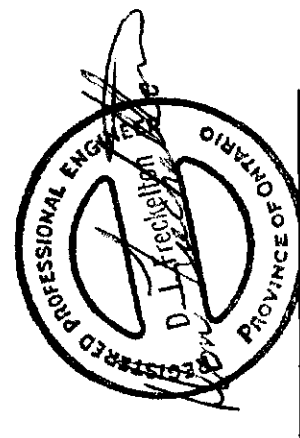
316436468 63.3273 DUGANSON

400



LEGEND  
Total count reading in C.P.M./1000: 87  
Contour interval: semi-logarithmic  
100,000 C.P.M. line  
25,000 C.P.M. line  
10,000; 15,000; 50,000 line  
Relative low: 500  
Borehole: 500  
Instrument: McPhar TV3-B Spectrometer

|   |    |    |
|---|----|----|
| 2 | 12 | 13 |
| 3 | 11 | 14 |
| 4 | 10 | 15 |
| 5 | 9  |    |
| 6 | 8  |    |

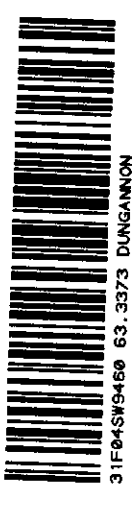


3500 S

5000 E

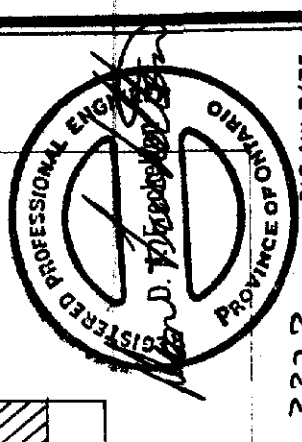
4000 E

4000 E



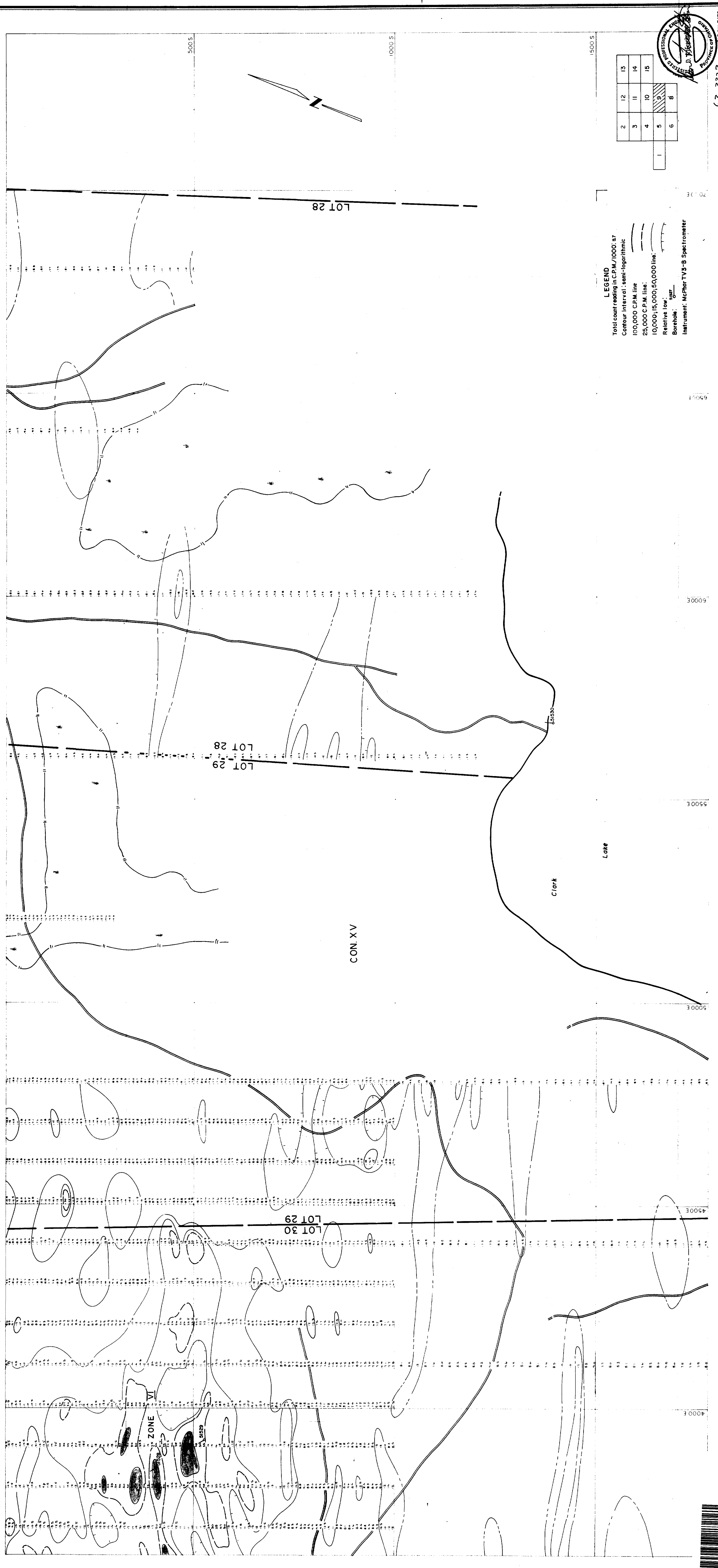
314646466 00 3075 DOWNSON

63 337 3 JEF AW 7/75

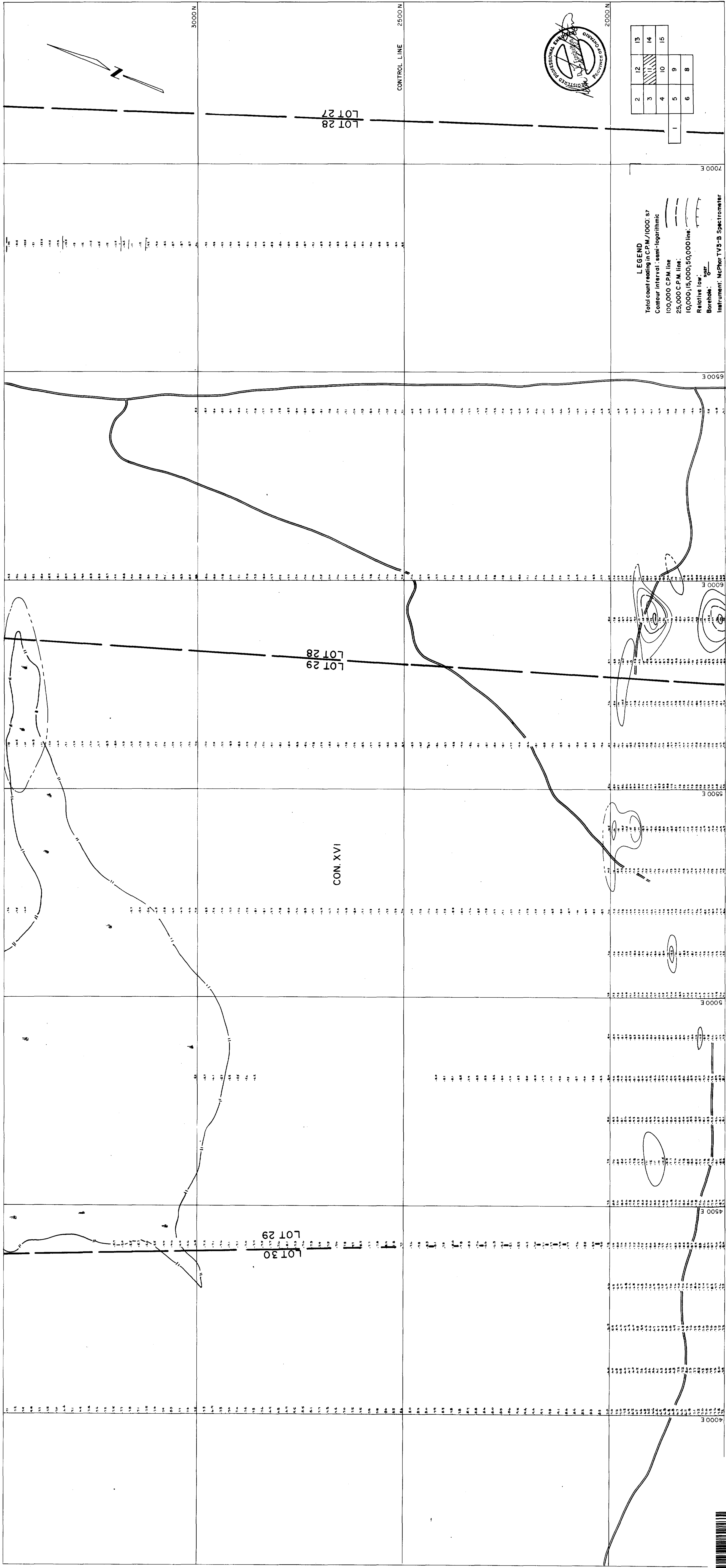


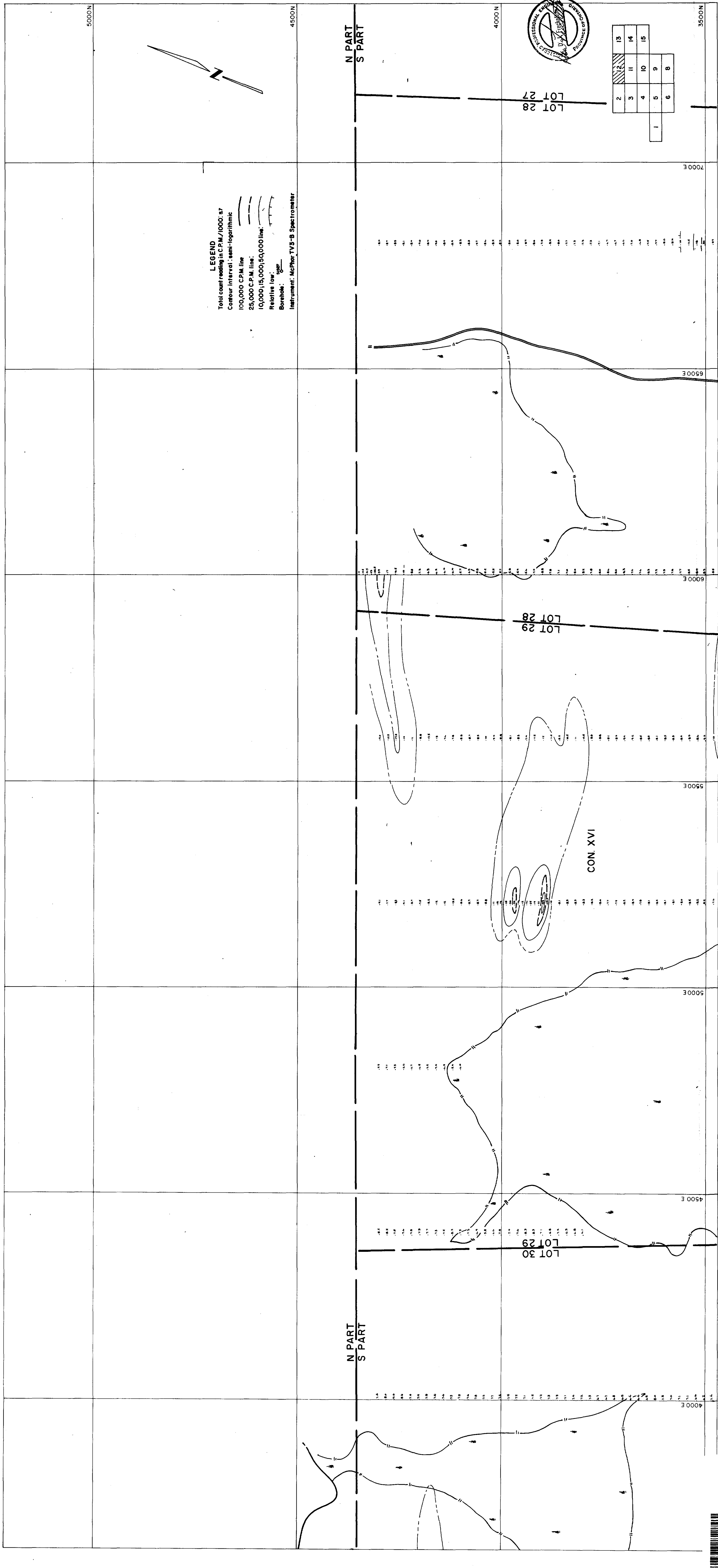
|   |    |    |
|---|----|----|
| 2 | 12 | 13 |
| 3 | 11 | 14 |
| 4 | 10 | 15 |
| 5 | 9  |    |
| 6 | 8  |    |

**LEGEND**  
Total count reading in C.P.M./1000: sr  
Contour interval: semi-logarithmic  
100,000 C.P.M. line  
25,000 C.P.M. line  
10,000, 15,000, 50,000 line  
Relative low:  $\frac{100}{1000}$   
Borehole:  $\frac{100}{1000}$   
Instrument: McPhar TV3-B Spectrometer





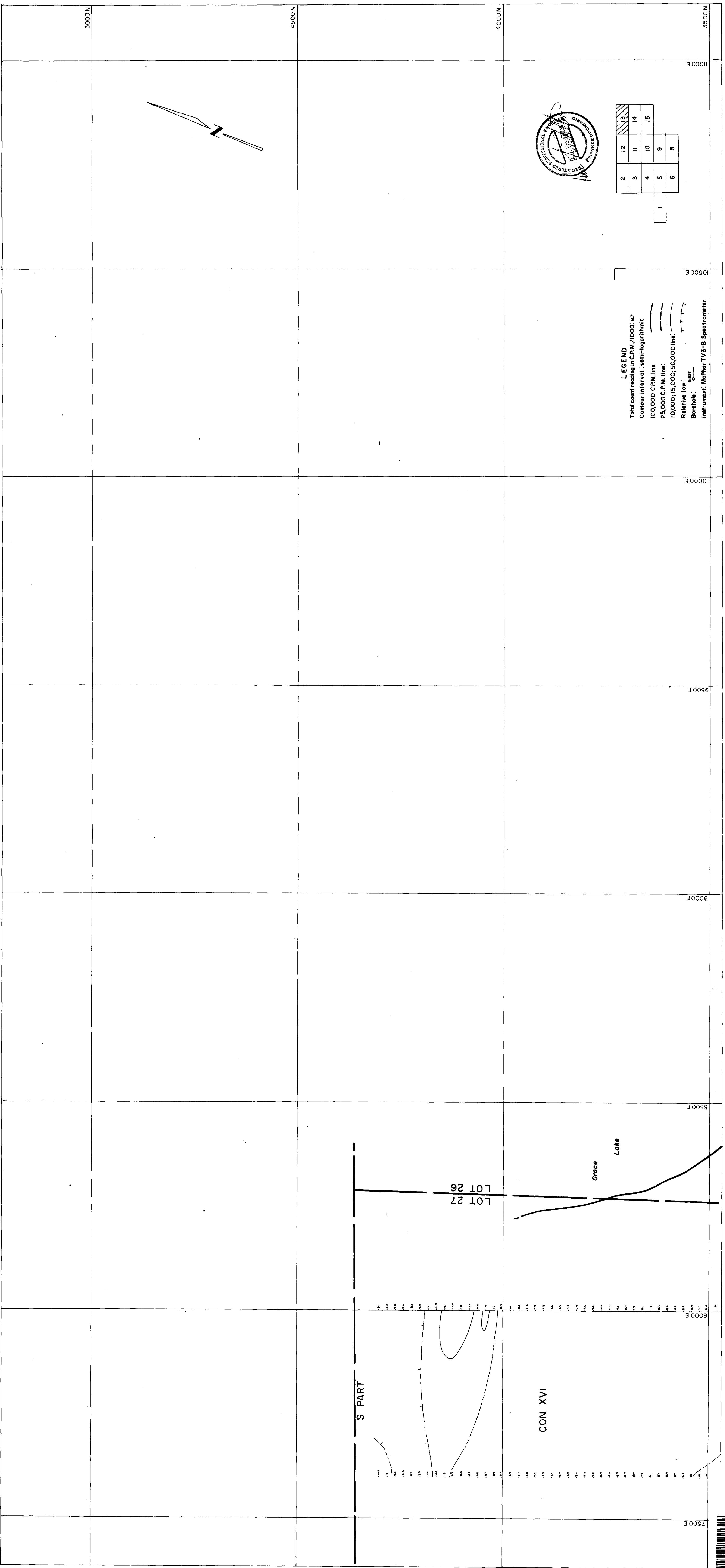






3174-5094-08 10, 3373 D. McANNON

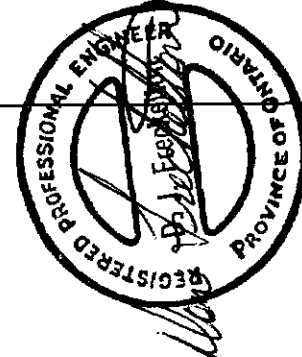
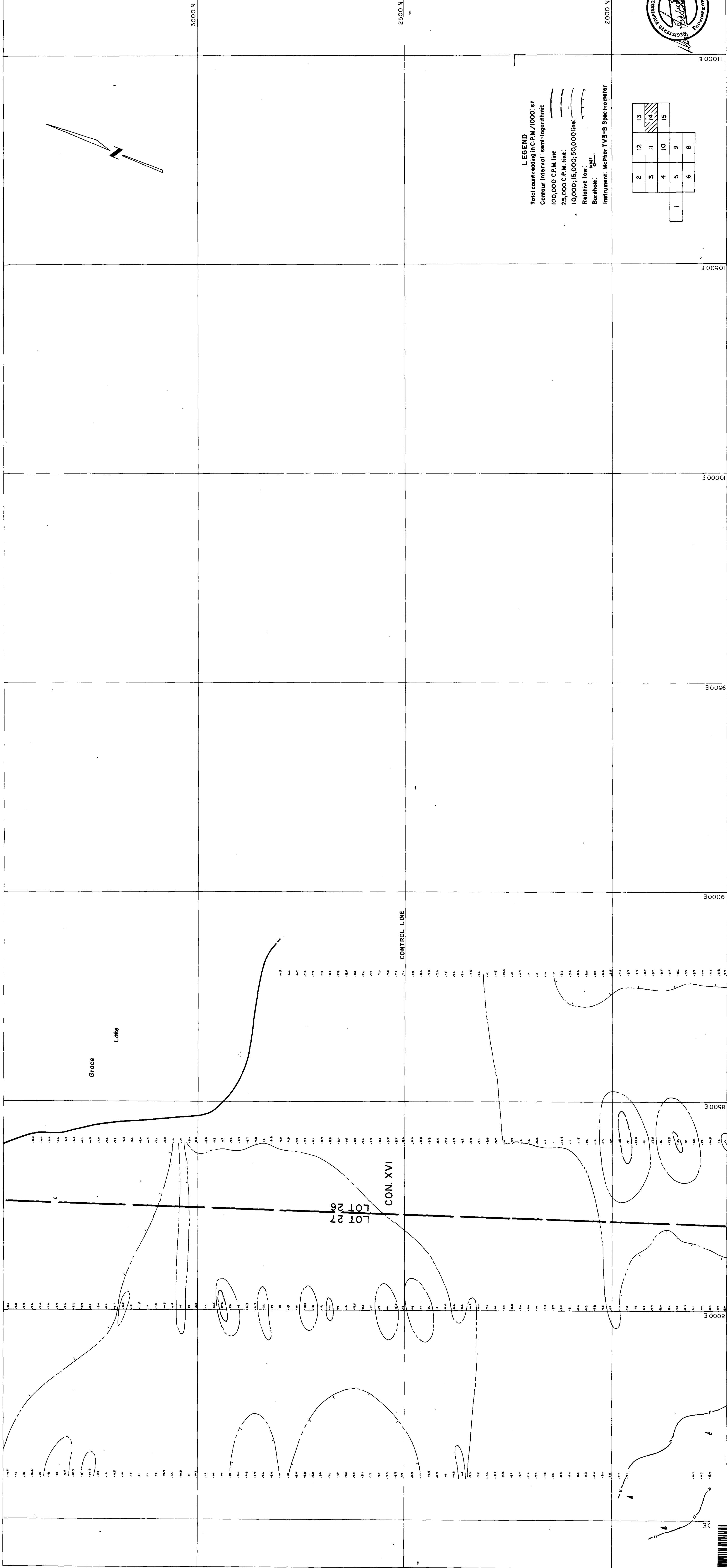
450



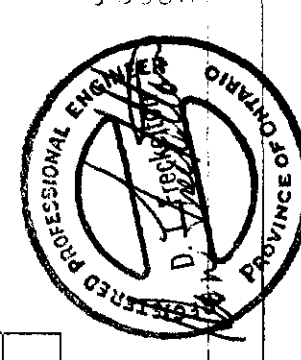


31764389408 63.3373 DUNGANN

460

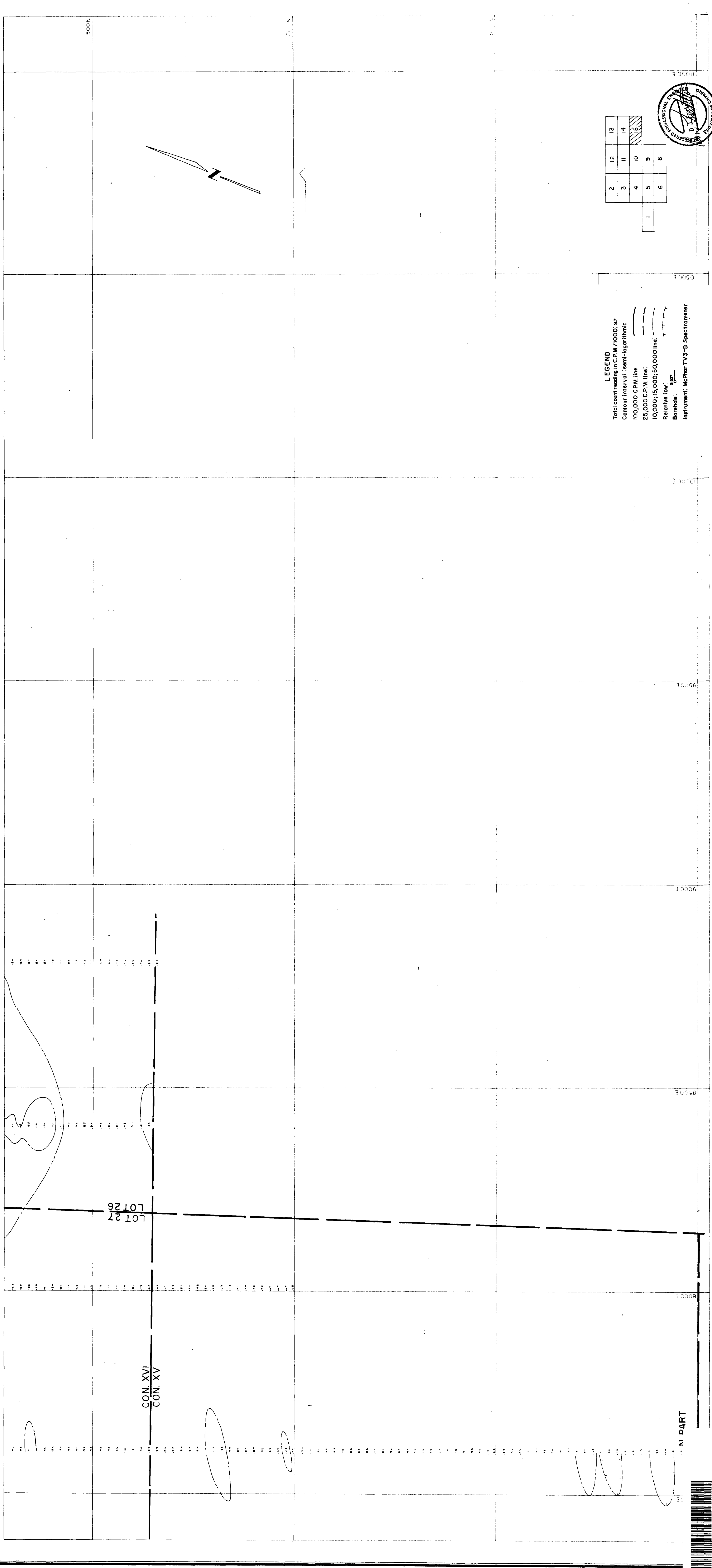


|   |    |    |
|---|----|----|
| 2 | 12 | 13 |
| 3 | 11 | 14 |
| 4 | 10 | 15 |
| 5 | 9  |    |
| 6 | 8  |    |
| 1 |    |    |



|   |    |    |   |
|---|----|----|---|
| 1 | 5  | 9  | 8 |
| 2 | 12 | 13 |   |
| 3 | 11 | 14 |   |
| 4 | 10 | 15 |   |

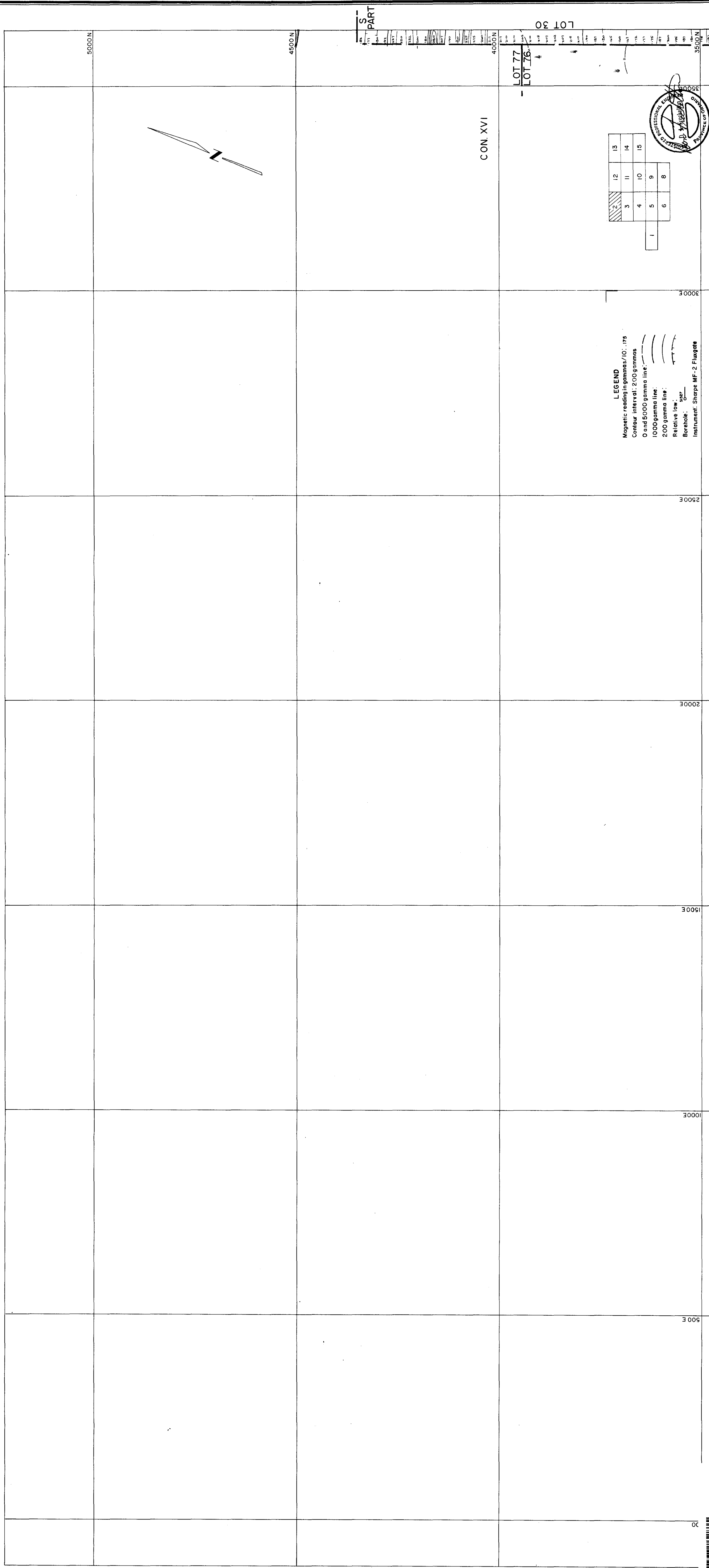
**LEGEND**  
Total count reading in C.P.M./1000' ±7  
Contour interval - semi-logarithmic  
100,000 C.P.M. line  
25,000 C.P.M. line  
10,000 ±15,000; 50,000 line  
Relative low  
Borehole: <sup>top</sup>  
Instrument: McPhor TV3-B Spectrometer







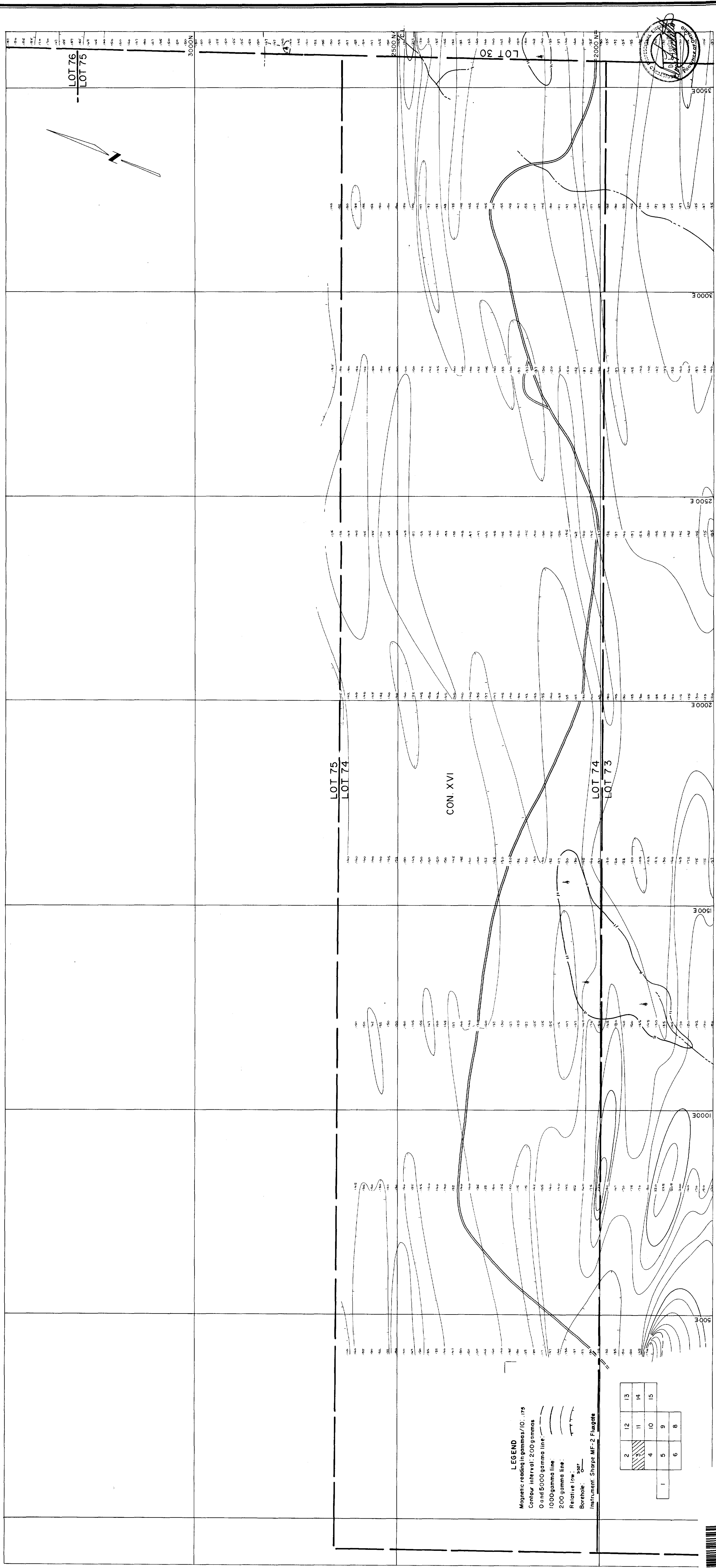
314600000 001370 0000000





31164529468 63.3373 DUGANON

500

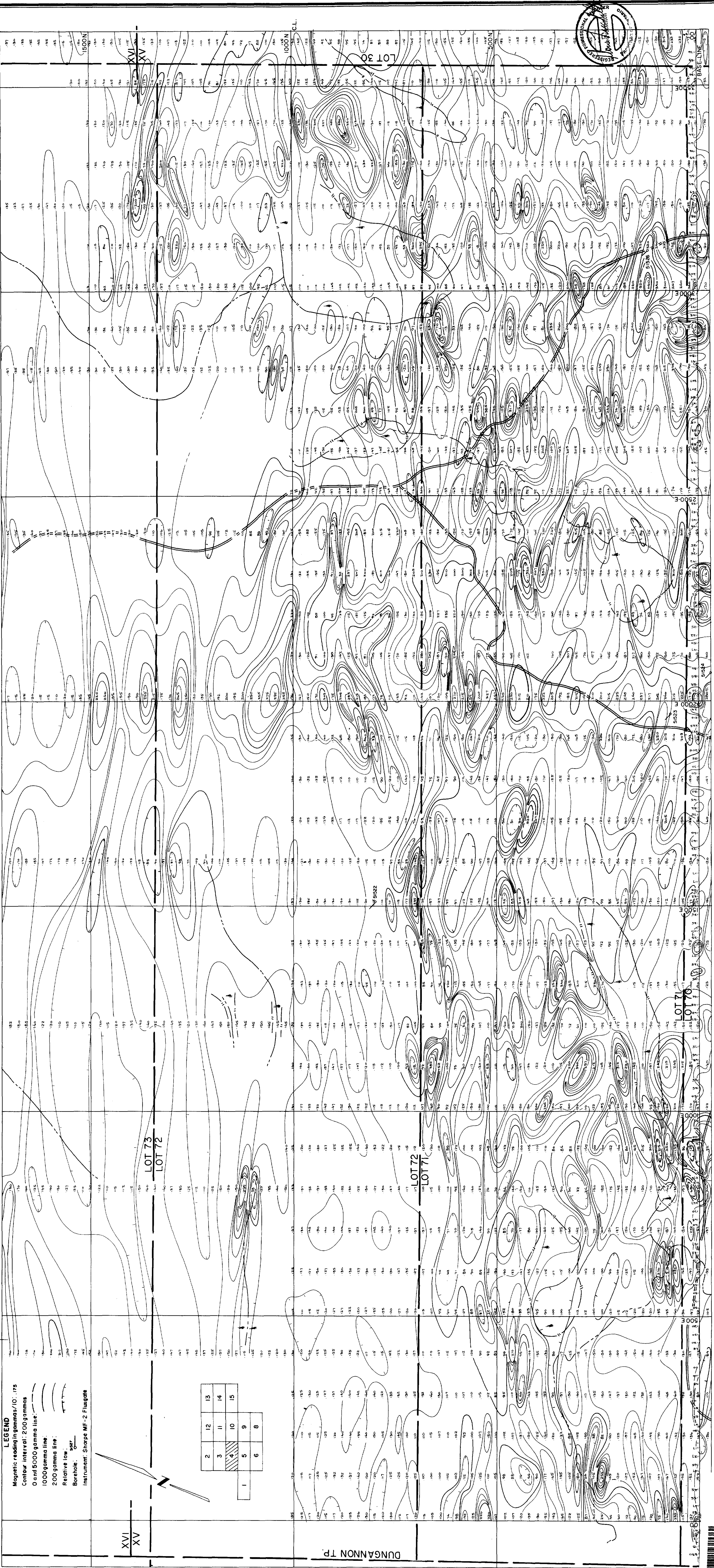


**LEGEND**  
Magnetic reading in gammas/10: .175  
Contour interval: 200 gammas  
0 and 5000 gamma line  
1000 gamma line  
200 gamma line  
Relative low  
Borehole  
Instrument: Sharpe MF-2 Fluoride

|   |    |    |
|---|----|----|
| 2 | 12 | 13 |
| 3 | 11 | 14 |
| 4 | 10 | 15 |
| 5 | 9  |    |
| 6 |    |    |

XVI  
XV

DUNGANNON TP.  
FARADAY TP.

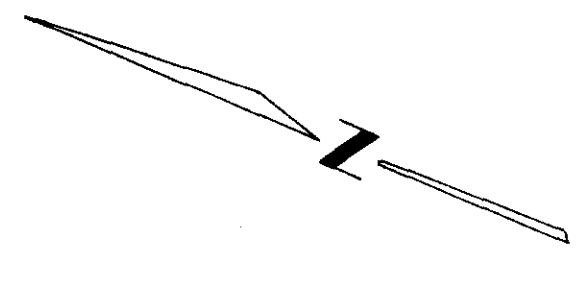




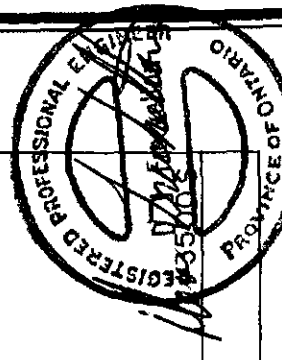
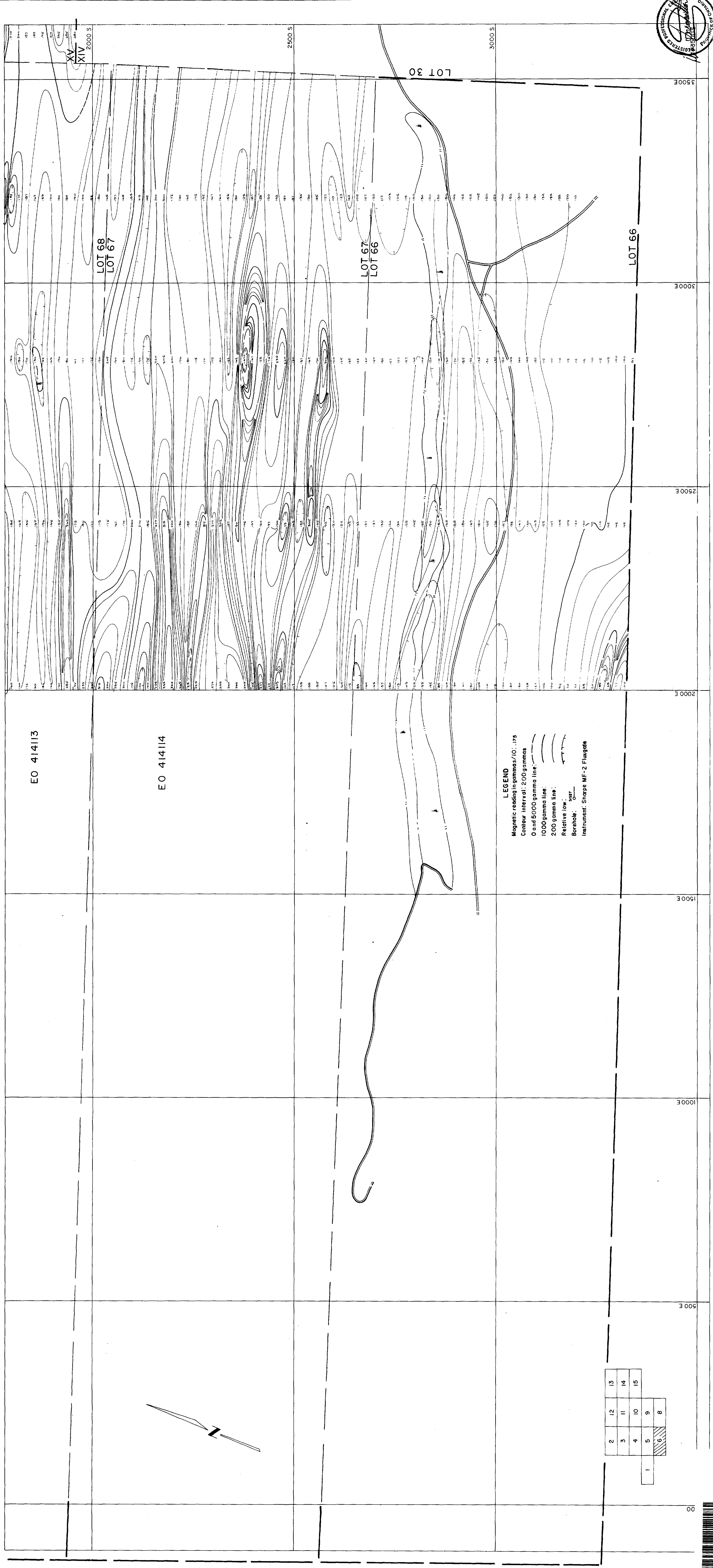


530

|   |    |    |
|---|----|----|
| 2 | 12 | 13 |
| 3 | 11 | 14 |
| 4 | 10 | 15 |
| 5 | 9  |    |
| 6 | 8  |    |



**LEGEND**  
Magnetic reading in gammas/10: .175  
Contour interval: 200 gammas  
0 and 5000 gamma line:  
1000 gamma line:  
200 gamma line:  
Relative low:  
Borehole:  
Instrument: Sharpe MF-2 Fluagala

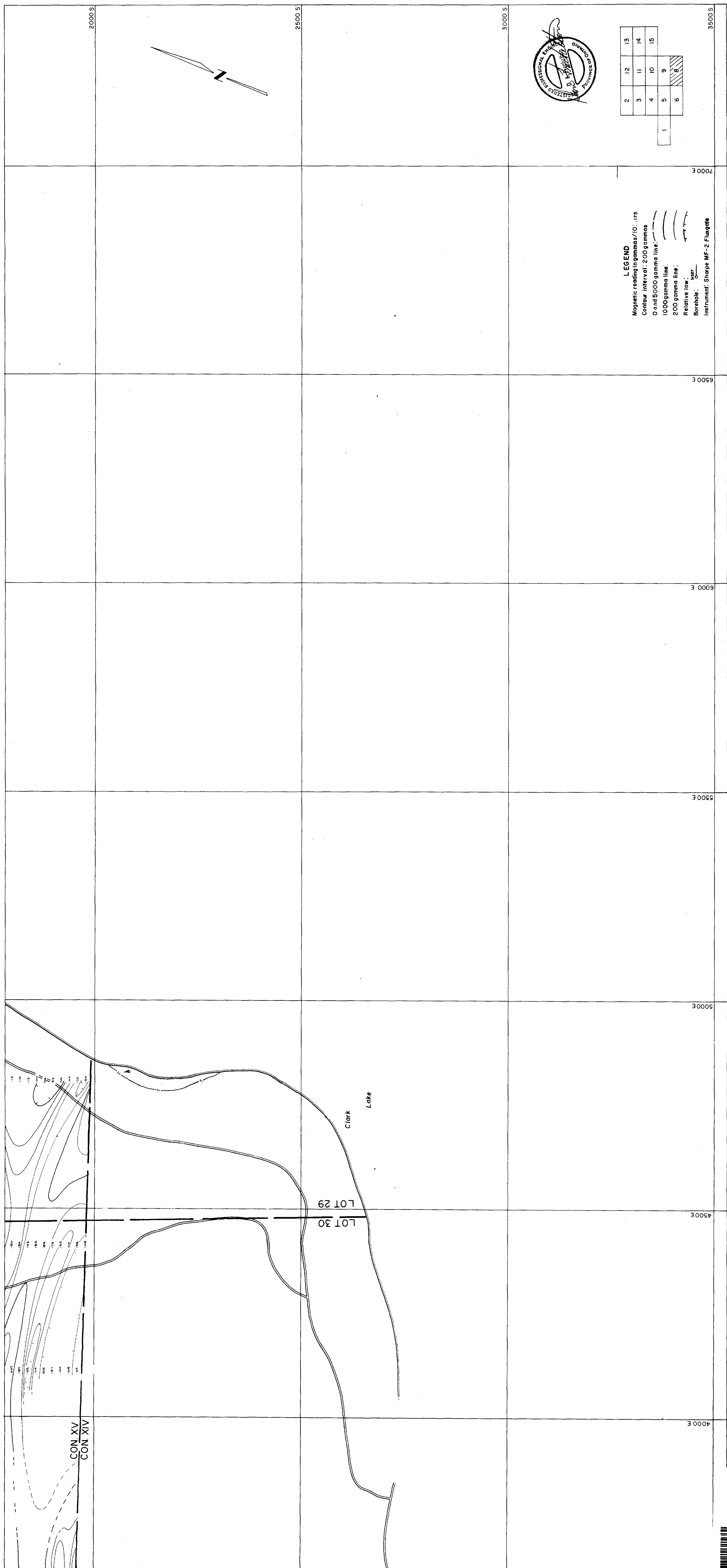




540

3174545454545 31.3373 DONGANN

63-3373 31F4W 7/75





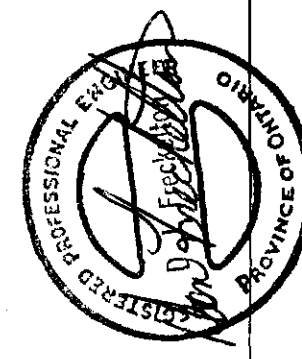
310458408 82.3373 DUNNAN

550



|   |    |    |
|---|----|----|
| 2 | 12 | 13 |
| 3 | 11 | 14 |
| 4 | 10 | 15 |
| 1 | 5  | 9  |
| 6 | 8  |    |

**LEGEND**  
Magnetic reading in gammas/10. rrs  
Contour interval: 200 gammas  
0 and 5000 gamma line: ---  
1000 gamma line: ---  
200 gamma line: ---  
Relative low: <sub>557</sub>  
Borehole: <sub>557</sub>  
Instrument: Sharpe MF-2 Fluxgate

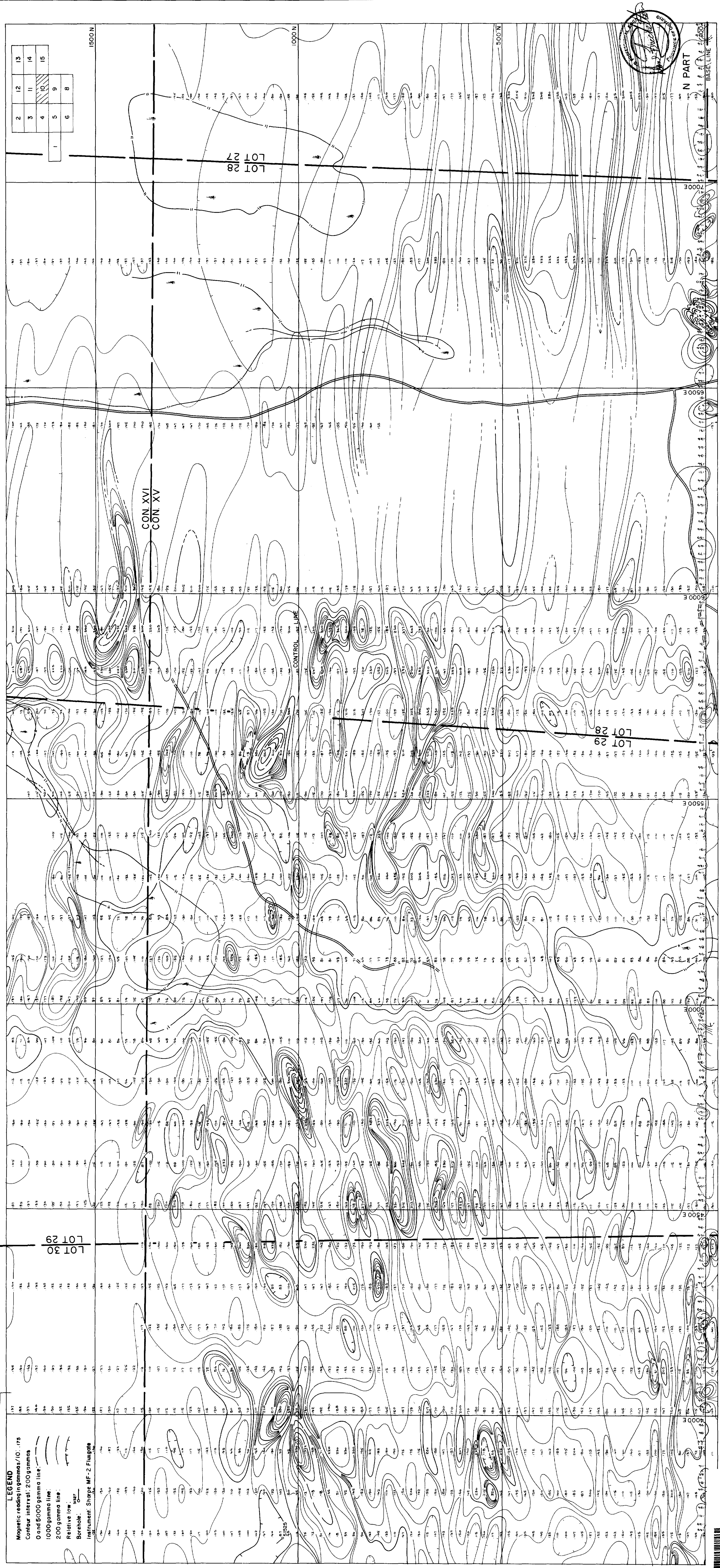




560

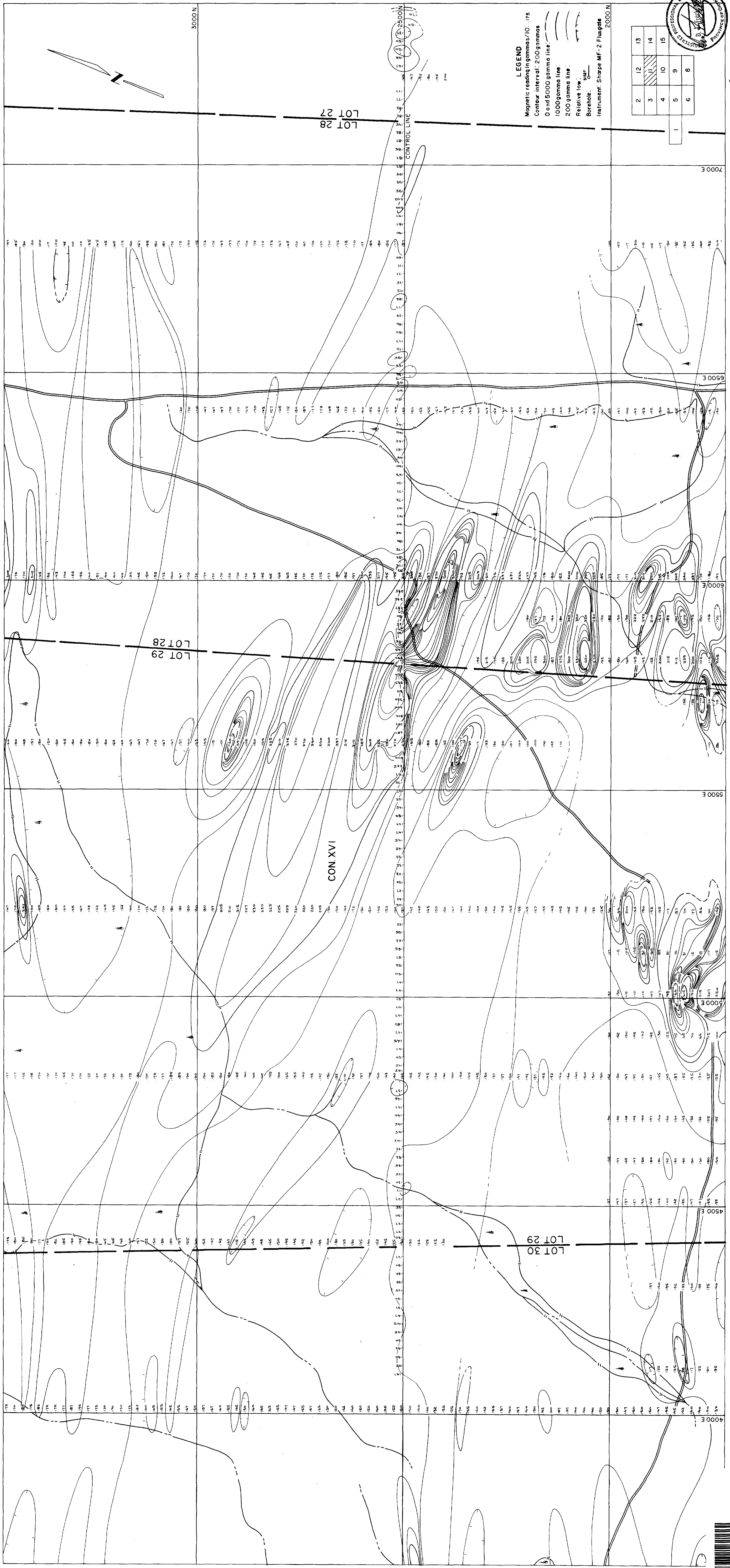
63-3573 31F AW 7/75

MAG. EAGLE NEST DETAIL SHEET 10



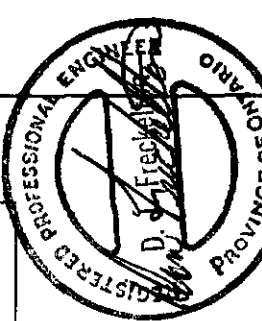


318459408 83.3373 DANGKON



LEGEND  
Magnetic reading in gammas/10. .175  
Contour interval: 200 gammas  
0 and 5000 gamma line  
1000 gamma line  
200 gamma line  
Relative low  
Borehole  
Instrument: Shape MF-2 Fluxgate

|   |    |    |
|---|----|----|
| 2 | 12 | 13 |
| 3 | 11 | 14 |
| 4 | 10 | 15 |
| 5 | 9  | 8  |

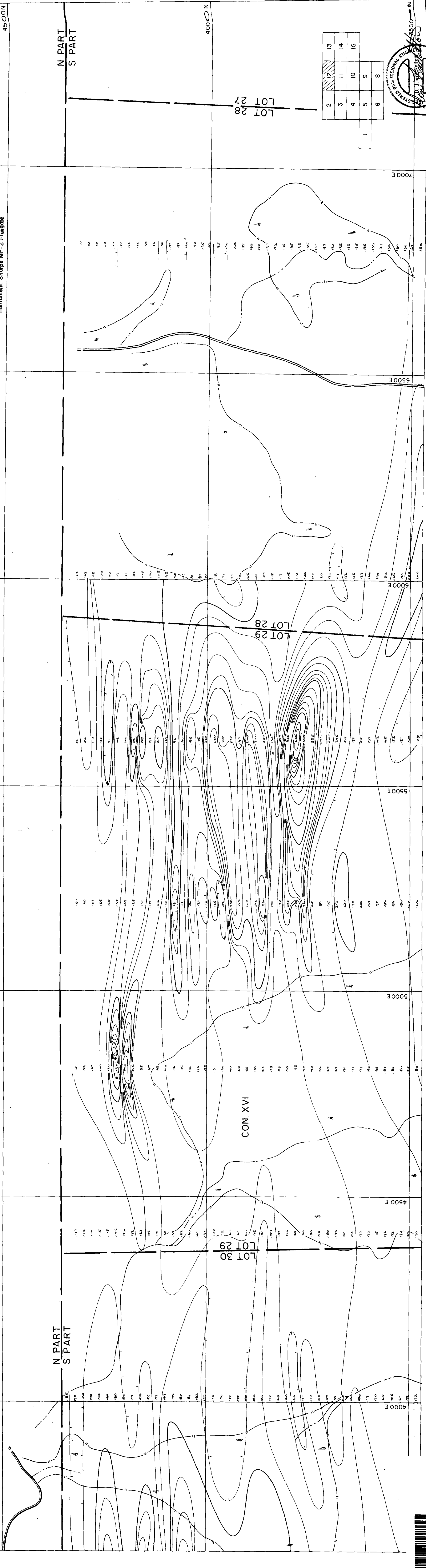
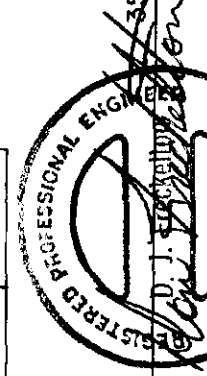




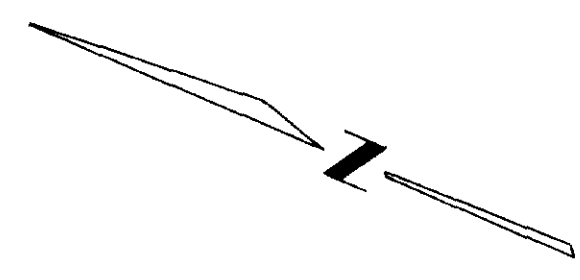
316489648 83 3373 DANNON

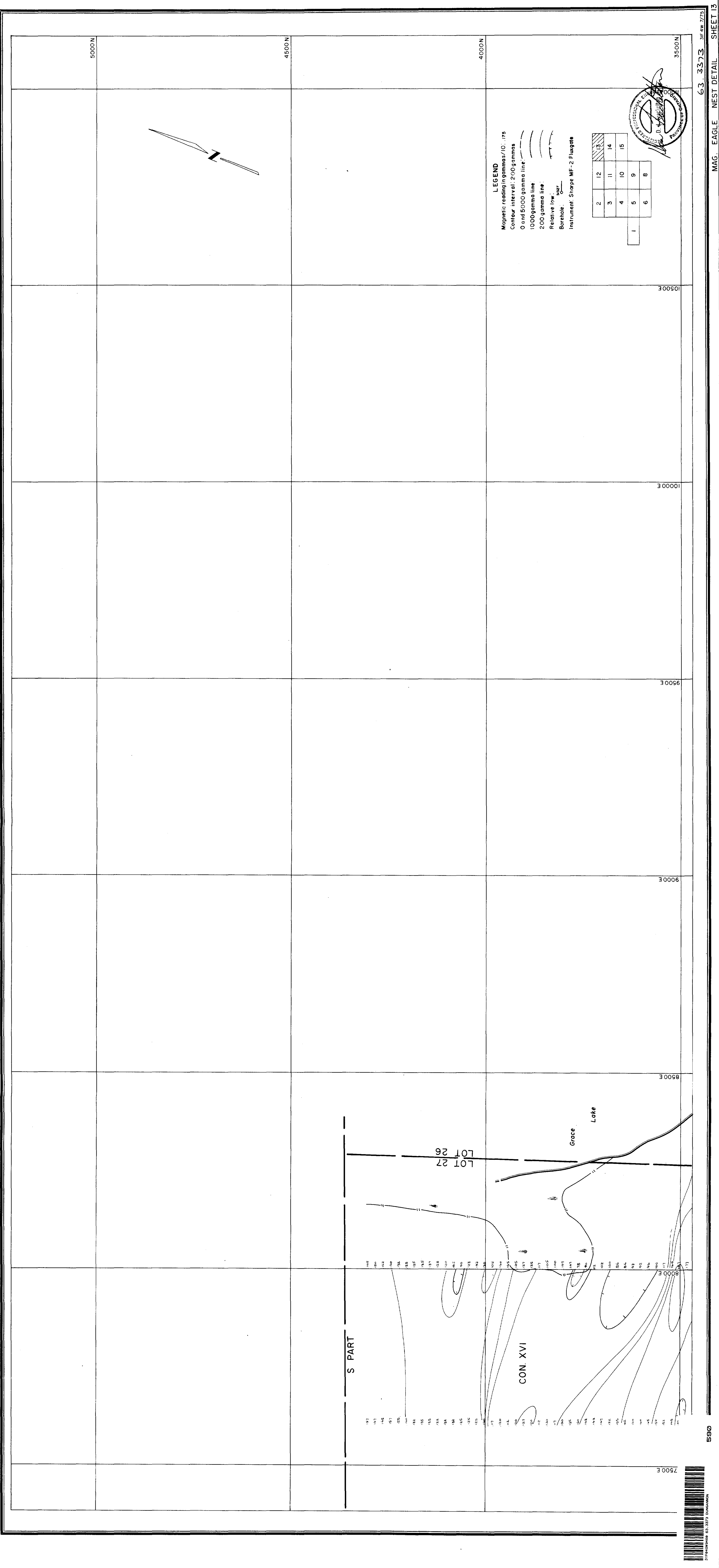
580

|   |    |    |   |
|---|----|----|---|
| 1 | 5  | 9  | 6 |
| 2 | 12 | 13 |   |
| 3 | 11 | 14 |   |
| 4 | 10 | 15 |   |



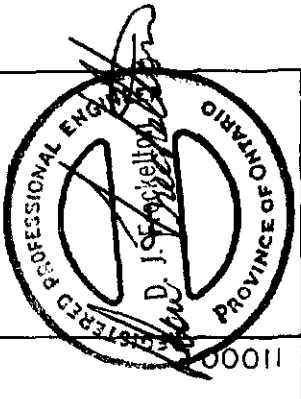
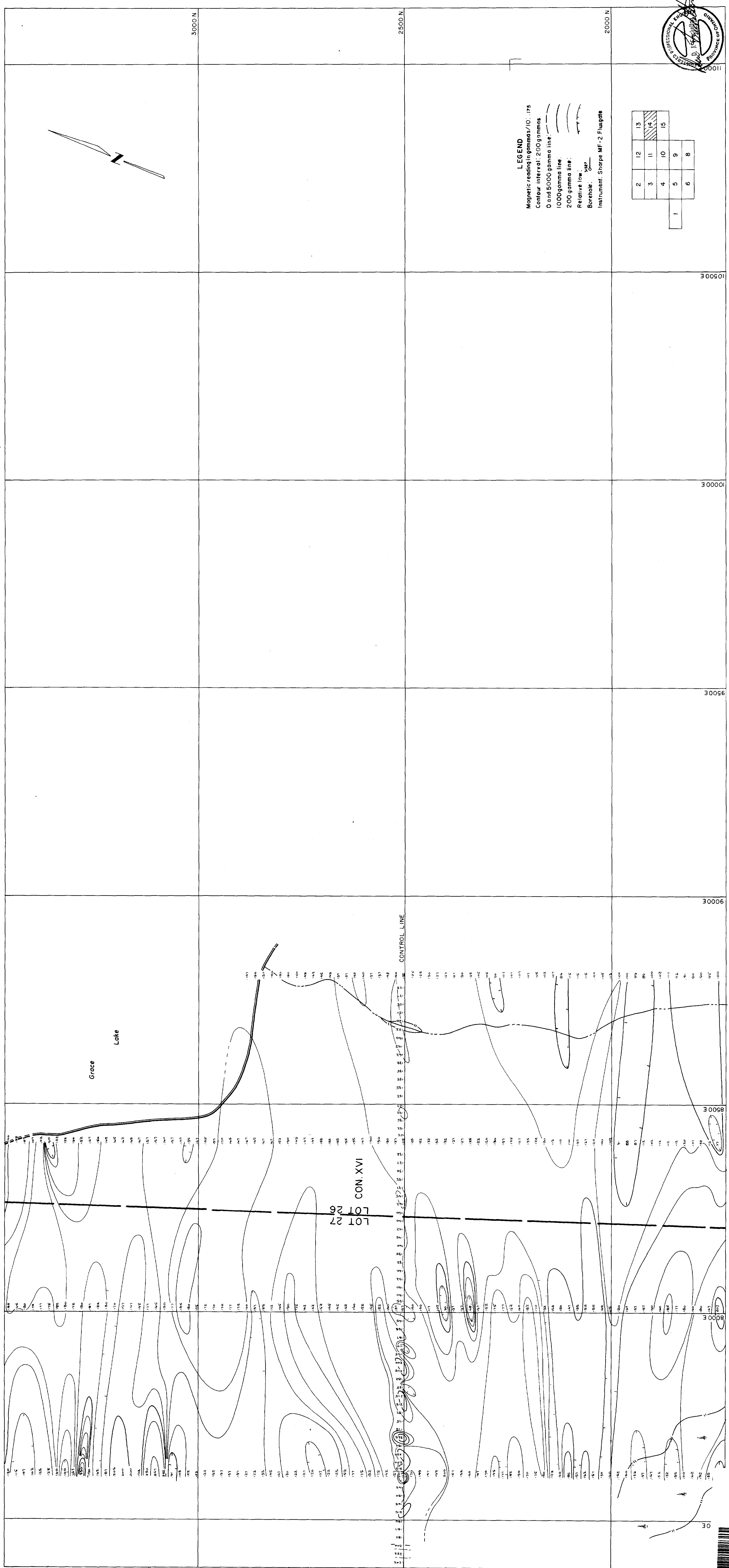
LEGEND  
Magnetic reading in gammas/10: .175  
Contour interval: 200 gammas  
0 and 5000 gamma line:  
1000 gamma line:  
200 gamma line:  
Relative low:  
Borehole:  
Instrument: Sharpe MF-2 Fluxgate







600

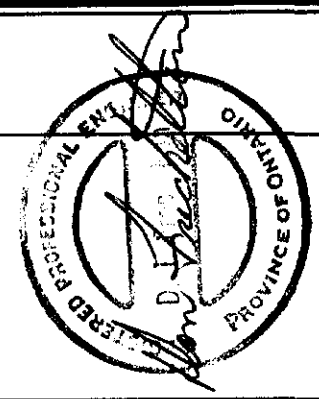


|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|

**LEGEND**  
Magnetic reading in gammas/10.175  
Contour interval: 200 gammas  
0 and 5000 gamma line  
10000 gamma line  
200 gamma line  
Relative low  
Borehole  
Instrument: Sharpe MF-2 Fluagate



2176559408 03 3375 DUNGANN



|   |   |   |    |    |    |
|---|---|---|----|----|----|
| 1 | 2 | 3 | 4  | 5  | 6  |
|   | 8 | 9 | 10 | 11 | 12 |
|   |   |   |    |    | 13 |
|   |   |   |    |    | 14 |
|   |   |   |    |    | 15 |

**LEGEND**  
Magnetic reading in gammas/10<sup>17</sup>s  
Contour interval: 200 gammas  
0 and 5000 gamma line  
1000 gamma line  
200 gamma line  
Relative low  
Borehole  
Instrument: Sharpe MF-2 Fluxgate

