

520/06SE-0033

LOAD: 16/COMBO/35MM

2.8727



52007SW0499 52006SE0033 WRIGHT LAKE

010

DEMPSTER LAKE PROPERTY

1985 Assessment Report

RECEIVED

DEC 11 1985

1.0 General Information

MINING LANDS SECTION

1.1 Location and Access

The Dempster Lake Property is located 55 km southwest of Pickle Lake, north-western Ontario (Fig. 1). The center of the claim group is situated at 90° 59' W longitude and 51° 14' N latitude on N.T.S. sheets 52 0/2, 3, 6 and 7.

Access to the area is by float or ski-equipped plane from Pickle Lake. Overland winter access is available via the Ear Falls - Pickle Lake power transmission corridor which passes through the southern part of the property.

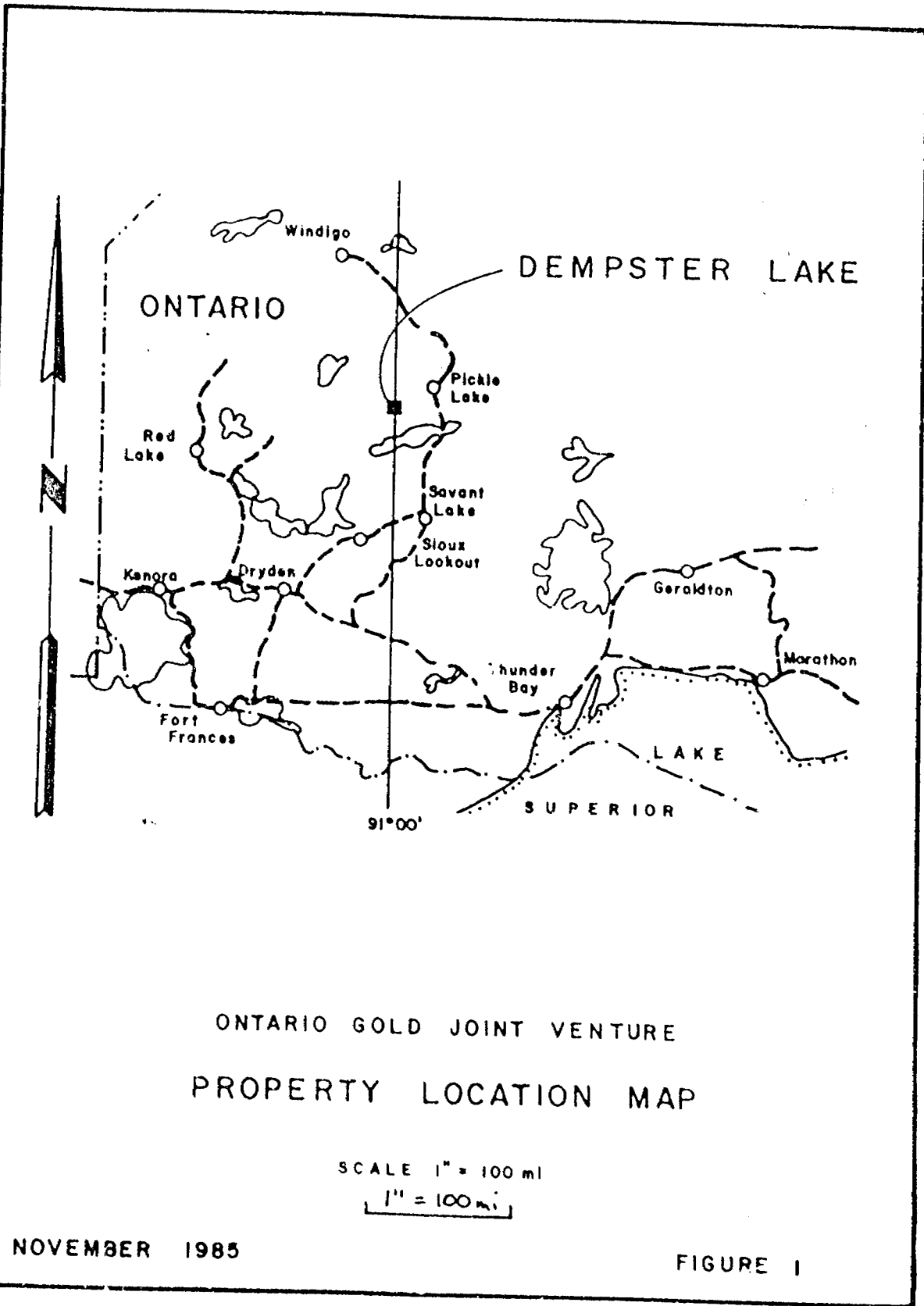
1.2 Claim Status and Titles

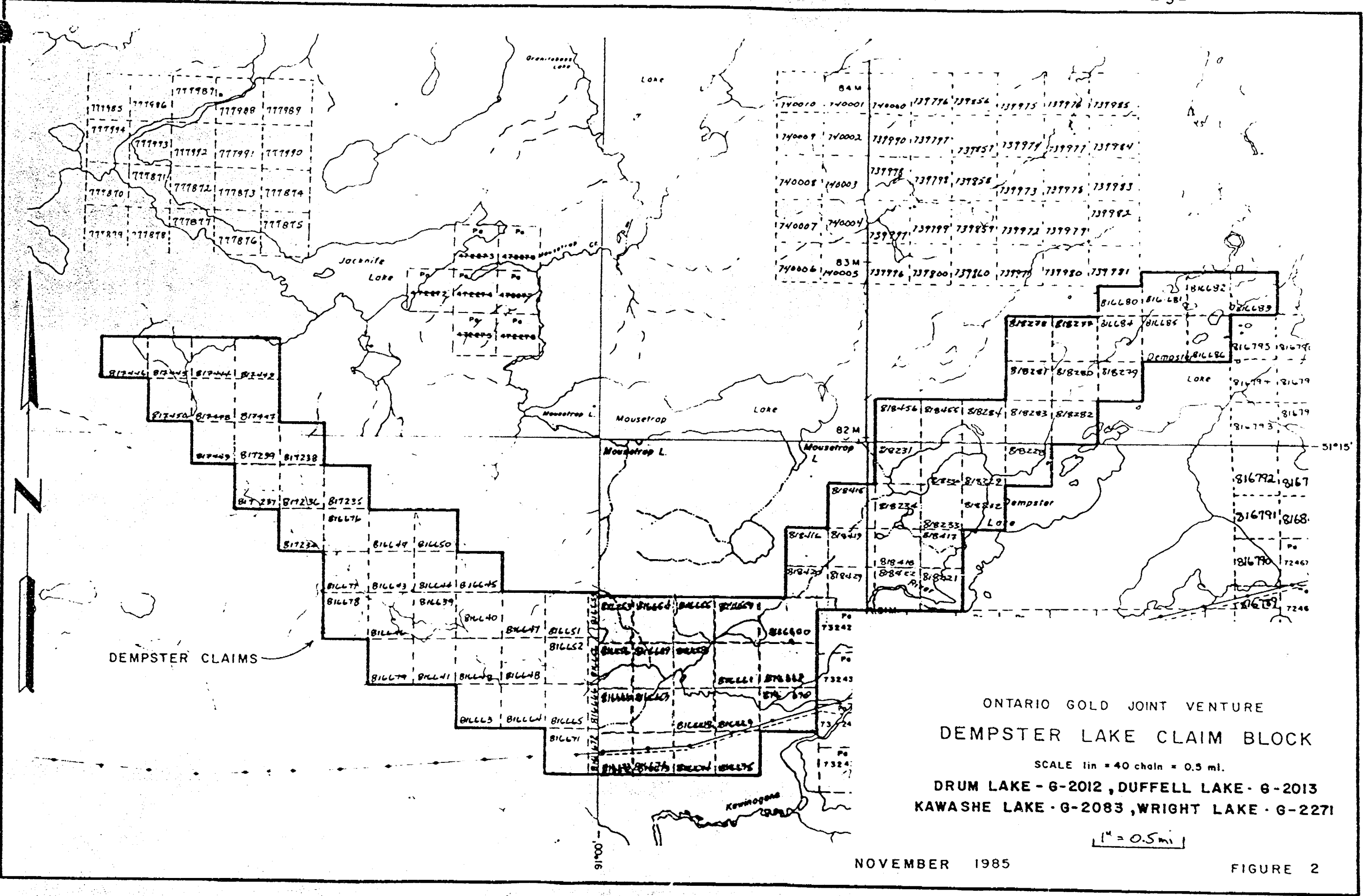
The Dempster Lake Property comprises eighty-eight (88) contiguous mineral claims (Fig. 2):

<u>No. of Claims</u>	<u>Claim Numbers</u>	<u>Anniversary Dates</u>
48	Pa 816639-686 incl.	August 8, 1985
6	Pa 817234-239 incl.	August 8, 1985
8	Pa 817443-450 incl.	August 8, 1985
7	Pa 818228-234 incl.	August 24, 1985
8	Pa 818277-284 incl.	August 24, 1985
9	Pa 818415-423 incl.	August 24, 1985
2	Pa 818455-456 incl.	August 24, 1985

All claims are held by Northern Dynasty Explorations Ltd., in trust for the Ontario Gold Joint Venture (Northern Dynasty Explorations Ltd., Newfields Minerals Inc., Dunlop Explorations and Westfield Minerals Limited, Appendix 1). The claims are located on the Duffell Lake (G-2013), Drum Lake (G-2012), Kawashe Lake (G-2083) and Wright Lake (G-2271) map sheets in the Patricia (Sioux Lookout) Mining Division.

The Dempster Lake Property adjoins claim groups held by Dome Mines to the northwest, Kerr Addison Mines to the north and Noranda Exploration to the southeast.





DEMPSTER CLAIMS

ONTARIO GOLD JOINT VENTURE  
 DEMPSTER LAKE CLAIM BLOCK

SCALE 1in = 40 chain = 0.5 mi.  
 DRUM LAKE - G-2012, DUFFELL LAKE - G-2013  
 KAWASHE LAKE - G-2083, WRIGHT LAKE - G-2271

1" = 0.5mi

NOVEMBER 1985

FIGURE 2

### 1.3 Survey Dates and Personnel

Field work described in this report was completed in the periods June 21 to July 10 and August 3 to 8, 1985 (Appendix 2). The claims on which geological, geophysical and geochemical surveys were conducted are listed within each sub-report. A total of 12,785 meters of baseline was cut at azimuths of 000°, 045°, 090° and 320°.

### 1.4 Previous Work

Available records indicate limited previous mineral exploration in the vicinity of the Dempster Lake Property.

Between 1960 and 1963, New Jersey Zinc examined a gold prospect at Muskegsagen Lake, 12 km northwest of the Dempster Lake claims. Work included surface trenching and diamond drilling (six holes totalling 216 m). Quartz veins containing galena and tourmaline occur within sheared basic tuff, sericite schist and quartz-feldspar porphyry. Carbonate, sericite, chlorite and silica alteration are reported in assessment files. Best results include 0.04 ounces Au/ton from a 3.5 meter surface channel sample and 0.32 ounces Au/ton over 0.27 meters of drill core.

Several exploration companies, including Cochenour-Willans, Selco, Inco, Umex and Cominco, searched for massive sulphide deposits in the area during the early seventies to early eighties. Many airborne and ground electromagnetic/magnetic anomalies were drill tested with little success. This previous exploration includes the following work in the west to northwest part of the current Dempster Lake Property:

- In 1972, Cochenour-Willans tested electromagnetic conductors with 85.6 meters of diamond drilling in two holes (B-46-72-1 and B-46-72-2 on Plate 1).
- In 1979, Cominco completed geological mapping over ten claims near and northwest of Dunlop Lake (Plate 1).
- In 1981, Cominco tested an electromagnetic conductor with one 99.4 meter drill hole in the Dunlop Lake vicinity.

## 2.0 Geological Report

### 2.1 Introduction

Geological mapping at a scale of 1:5,000 was conducted from June 21 to July 5 and August 3 to 7, 1985 over the entire Dempster Lake Property.

### 2.2 Physiography

#### Topography

Relief is low with elevations generally ranging from 375 to 400 meters above sea level. The monotonous topography is occasionally interrupted by low ridges of rock or unconsolidated glacial material. Surface drainage is poor, resulting in numerous lakes and bogs.

#### Overburden

Glacial overburden of variable thickness covers much of the claim group. Several drumlinoidal ridges of fine sand parallel the southwest direction of glacial advance (Plate 8). A local northwest-trending esker cuts across the southwest end of Dempster Lake (Plate 8). No glaciolacustrine clays were observed.

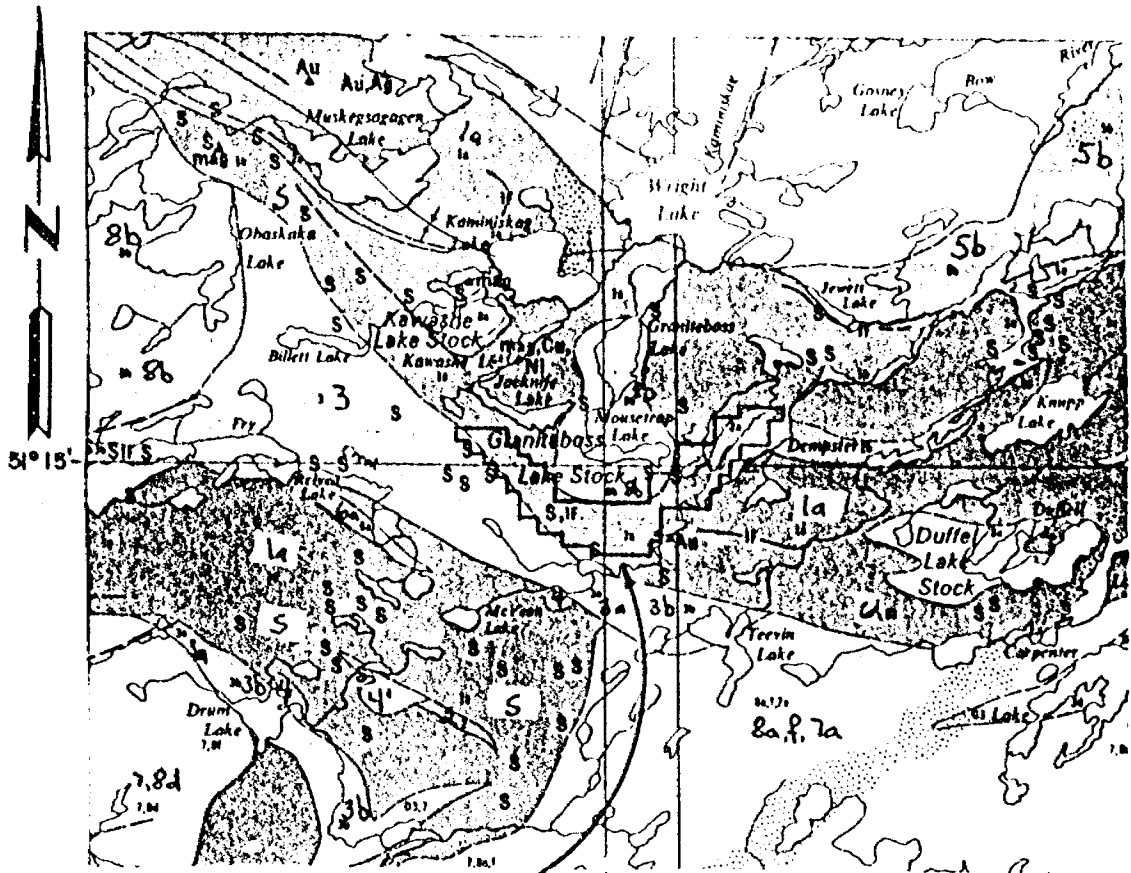
#### Bedrock Exposure

Bedrock exposure varies considerably throughout the property. Near Dunlop Lake, abundant outcrop occurs along a 2.3 km west-northwest-trending ridge. Moderate outcrop is present near the north end of Dempster Lake and along the power line in the south-central part of the property. Throughout the remainder of the claim group, outcrop is limited.

### 2.3 Regional Geology

The Dempster Lake claims are underlain by Archean rocks of the Uchi Lake Subprovince in the Superior Province of the Canadian Shield. This Subprovince consists of a series of supracrustal metavolcanic-metasedimentary belts intruded and separated by composite granitic stocks and batholiths. It is bordered to the north by intrusive rocks of the Cat Lake-Williams Lake Batholithic Complex and to the south by metasediments and migmatitic/magmatic granites of the English River Subprovince.

The Dempster Lake Property lies near the southeast boundary of the Meen-Dempster "greenstone" belt (Fig. 3), a 53 km long metavolcanic-metasedimentary assemblage which merges with the Bamaji-Fry Lakes belt to the southwest, the Johnson Bay-Fry Lake belt to the south and the Dempster-Pickle Lakes belt to the east. Recent mapping by Stott and Wallace (1984) has identified at least two cycles of mafic-felsic volcanism within the Meen-Dempster belt.



**DEMPSTER CLAIMS**

- 8 [Symbol] GRANITIC ROCKS
- 5 [Symbol] MIGMATITIC ROCKS
- 4 [Symbol] MAFIC TO ULTRAMAFIC INTRUSIVE ROCKS
- 3 [Symbol] METASEDIMENTARY ROCKS
- 2 [Symbol] FELSIC METAVOLCANIC ROCKS
- 1 [Symbol] MAFIC METAVOLCANIC ROCKS

ONTARIO GOLD JOINT VENTURE  
 DEMPSTER LAKE  
 REGIONAL GEOLOGY

NTS 52 0 / 2, 3, 6 & 7

1 inch = 4 miles

1 : 253,440

1" = 4 mi

NOVEMBER 1985

FIGURE 3

## 2.4 Local Geology

The following lithostratigraphic section is present on or near the Dempster Lake claim group (Plates 1 and 8):

	UNIT	ROCK TYPES
	IV Felsic to Intermediate Intrusive Rocks.	Monzonite to syenodiorite.
TOP	III Mafic Metavolcanic and Intrusive Rocks.	Metabasalt flows and gabbro sills. Local chlorite schist and siliceous metasediments.
	II Intermediate to Felsic Metavolcanic Rocks	Well foliated to sheared, variably calcareous, chloritic and siliceous, sericite schist. Local fine to coarse-grained pyroclastics, magnetite iron formation, and porphyritic dykes/sills.
	I Mafic Metavolcanic Rocks	Vesicular and pillowed, variably calcareous, silicified and chloritic metabasalt flows. Local gabbro, argillite and magnetite iron formation.
BASE		

Stott and Wallace (1984) indicate that clastic metasediments of the "Billett Lake Sedimentary Basin" unconformably overlie the metavolcanic sequence (Units I to III) and "relatively high grade" metamorphism occurs throughout the property area.

## 2.5 Structural Geology

Utilizing pillow top data and isolated occurrences of graded bedding, Sage and Breaks (1982) suggest a large-scale synclinal axis extends through the centre of the Meen-Dempster belt. Stott and Wallace (1984), however, indicate that stratigraphy youngs consistently to the south, with only minor local flexures. Field observations on the Dempster Lake claims indicate that foliation, which appears to parallel or subparallel bedding, is either vertical or steeply-inclined to the south (Plates 1 and 8).

Of particular note is the intensity of the foliation within the sericitic metadacites (Unit II). A 300 to 1,500 m wide ductile shear zone, extending through the centre of the claim group for a 12 km strike length, has been indicated. Recent mapping by Stott and Wallace (1984) has confirmed the presence of this "major ductile deformation zone". They describe moderately to strongly deformed rocks grading into discrete mylonite zones. While Stott and Wallace indicate that shearing locally transects the intermediate to felsic metavolcanics (Unit II), initial field observations suggest that the intense foliation is restricted to this sericite schist horizon. The spacial association with the adjacent Graniteboss Lake Stock suggests that shearing may have occurred during the diapiric emplacement of the intrusive.



## 2.6 Mineralization

To date, gold mineralization has been discovered in three distinct geological settings at the Dempster Lake Property.

### 1. Pyritic Zones in Quartzite-Magnetite Iron Formation

North of Dunlop Lake (3+00E/4+75N), highly oxidized quartzite-magnetite iron formation is intercalated with chlorite-sericite schist over an 8 m exposure (Plate 1). In both lithologies, up to 3% pyrite and 3% boxwork (after pyrite?) are present. Samples of adjacent brick-red soils have returned up to 1,850 ppb gold (YD5-S-9) while grab samples of pyritic schist and quartzite have yielded up to 460 ppb gold (GD5-R-37; Plates 6 and 7).

South of Arrowhead Lake (17+75E/1+50S), 1,600 m to the southeast of Dunlop Lake, grab samples of stratigraphically equivalent quartzite-magnetite iron formation have returned up to 615 ppb gold (ED5-R-13) while adjacent soil samples have yielded up to 540 ppb gold (ED5-S-9).

In total, four other banded iron formation horizons have been noted throughout the sericite schists of Unit II and underlying mafic metavolcanic rocks of Unit I. At L10+00E/3+30N, up to 25% pyrite occurs within chlorite-magnetite schist and adjacent quartzite-magnetite iron formation. Gold values up to 105 ppb have been returned from grid soil sampling (Plate 5). Six 1.0 to 1.8 m channel samples collected over pyritic mineralization, however, all yielded gold values of less than 65 ppb.

In addition, potential for stratabound mineralization within sheared felsic agglomerates lying immediately south of the "North Dunlop Lake Iron Formation" has been indicated by geochemical results up to 835 ppb in soils (YD5-S-15) and 160 ppb in rocks (YD5-R-18).

### 2. Quartz-Tourmaline Vein Systems Within Porphyry Dykes

At Sudbury Point on the northwest shore of Dempster Lake (84+00E/1+20S), gold-bearing quartz-tourmaline vein systems occur within quartz-feldspar and chlorite-feldspar porphyry dykes hosted by variably chloritic and calcareous sericite schist of Unit II (Plate 8). Surface trenching revealed four northeast-trending porphyry dykes (0.6 to 3.7+ m thick) containing 1 to 10% quartz-tourmaline veins (up to 5 cm thick). Geochemical results indicate that gold mineralization is most abundant within the chlorite-feldspar porphyry dyke when cut by a high density of stringer veins. Highest results include 9,550 ppb gold (0.28 ounces per ton) from a grab sample of quartz-tourmaline veining (GD5-R-2), 9,850 ppb gold (0.29 ounces per ton) from a pyritic vein envelope (GD5-R-3) and 19,200 ppb gold (0.56 ounces per ton) from a 0.5 x 1.0 m panel sample over an 89 cm wide chlorite porphyry dyke (YD5-R-5; Plates 9 and 10).

Similar quartz-tourmaline stringer vein systems within porphyry dykes were observed and sampled at:

North Dempster Lake - grab samples of quartz stringer veins up to 12,100 ppb gold (0.35 ounces per ton) from a greater than 6 m thick quartz-feldspar porphyry dyke (TD5-R-4; Plates 8 to 10).

Central Dempster Lake - soil samples up to 2,400 ppb gold (0.070 ounces per ton) adjacent to a 0.7 m wide chlorite porphyry dyke (71+50E/1+50S; YD5-S-1; Plates 8 to 10).

Bear Drum Lake - grab samples up to 640 ppb gold from 1.5 m wide chlorite and quartz-feldspar porphyry dykes (54+00E/0+50N; YD5-R-4; Plates 8 to 10).

Northeast Dunlop Lake - grab samples of quartz-tourmaline stringer veins up to 4,300 ppb gold (0.13 ounces gold per ton) from a greater than 7 m thick quartz-feldspar porphyry dyke (7+00E/7+00N; ED5-R-25; Plates 1, 6 and 7).

Despite high assay results obtained from selective sampling of quartz-tourmaline stringer veins, representative samples of both vein and porphyry-host have generally returned subeconomic gold values.

### 3. Quartz-Tourmaline Vein Systems Within Sericite Schists

Southeast of Dunlop Lake (4+00E/1+20N), quartz-tourmaline stringer vein systems occur within siliceous sericite schists of Unit II (Plate 1). Individual veins vary from 1 to 10 cm in thickness, contain up to 30% tourmaline and 1% pyrite and are tightly folded about shallow west-plunging axes. In total, quartz-tourmaline veins were found to comprise approximately 2% of an 80 x 10 m stripped exposure. Grab samples of individual veins collected during 1984 reconnaissance sampling returned up to 0.52 ounces gold per ton. Three representative panel samples of both mineralized vein and sericite schist, however, returned gold values of less than 100 ppb (ED5-R-18 to 20; Plates 6 and 7).

### 3.0 Geophysical Report

#### 3.1 Introduction

Grid controlled ground magnetic and electromagnetic surveys were conducted in the west-central part of the Dempster Lake Property from August 3 to 7, 1985. The aim of these surveys was to define northwest-trending iron formation horizons detected through preliminary geological mapping.

In total, 2,060 m (magnetometer) and 1,710 m (electromagnetic) of flagged crosslines were established. For both surveys, readings were generally taken at 10 m spacings, with 2.5 to 5 m stations established in areas of anomalous magnetic response.

#### 3.2 Instruments and Operation

North facing, hand-held operation of the magnetometer provided a precision of  $\pm 10$  gammas. Tie-in readings at base stations were generally within 15 gammas and below anomaly thresholds, therefore no diurnal corrections were calculated.

The electromagnetic survey utilized VLF transmissions from Cutler, Maine, U.S.A. Dip angles were measured towards azimuth  $200^{\circ}$ .

For technical specifications, see Appendix 3.

#### 3.3 Ground Magnetometer Survey Results

The ground magnetometer survey yielded six northwest-trending linear anomalies associated with banded iron formation horizons (Plate 2).

##### ANOMALY "A"

Moderate anomaly (to 6,375 gammas) extending for 820 m across four survey lines. Associated with the North Dunlop Lake quartzite-magnetite iron formation as exposed at L300E/4+75N. Coincides with strong electromagnetic conductor "A" and strong grid soil anomalies (to 740 ppb gold).

##### ANOMALY "B"

Weak anomaly (to 6,120 gammas) extending for 1,100 m across four survey lines. Associated with banded iron formation occurring along the mafic metavolcanic (Unit I)-sericite schist (Unit II) contact exposed at L8+80E/2+90N and L12+00E/1+95N. No coincident electromagnetic conductors or grid soil anomalies (moderate grid soil anomalies up to 55 ppb gold located 20 to 40 m to the south).

ANOMALY "C"

Moderate anomaly (to 6,281 gammas) extending for 560 m across three survey lines. Associated with quartzite-magnetite iron formation near the top of the basal mafic metavolcanic rocks (Unit I) exposed at L10+00E/3+15N and L14+00E/2+55N. Located immediately to the south of magnetic anomaly "D" and strong electromagnetic conductor "B". Coincides with low grid soil anomalies (to 25 ppb gold).

ANOMALY "D"

Strong anomaly (to 7,889 gammas) extending for 160 m across two survey lines. Associated with pyritic chlorite-magnetite schist exposed at L10+00E/3+35N. Significant thinning to the east suggested by weak magnetic response at L14+00E. Coincides with strong electromagnetic conductor "B" and moderate grid soil anomalies (to 105 ppb gold).

ANOMALY "E"

Moderately strong anomaly (to 6,673 gammas) extending for 400 m across two survey lines. Probably caused by quartzite-magnetite iron formation exposed at L16+00E/3+10N. Appears to thin considerably to the northwest, as indicated by weak magnetic response on L10+00E. Hasn't yet been tested by electromagnetic survey. Coincides with low grid soil anomalies (to 25 ppb gold).

ANOMALY "F"

Weak (to 6,130 gammas) single-line anomaly probably associated with magnetite-bearing chlorite schist exposed at 3+00E/0+90N. No coincident electromagnetic conductors. Associated with moderate grid soil anomalies (to 65 ppb gold).

3.4 Ground Electromagnetic Survey Results

The ground electromagnetic survey yielded three northwest-trending conductors (Plate 4):

CONDUCTOR "A"

Moderate to strong conductor extending for 850 m across four survey lines (L3+00E/4+80N to L10+00E/0+50N). Weaker intensity in the east may be due to thick overburden cover. Associated with North Dunlop Lake quartzite-magnetite iron formation, strong geochemical anomalies and magnetic anomaly "A".

CONDUCTOR "B"

Strong conductor extending for 160 m across two survey lines (L8+50E/3+80N to L10+00E/3+30N). Associated with pyritic chlorite-magnetite schist, moderate soil geochemical anomalies and magnetic anomaly "D".

CONDUCTOR "C"

Weak to moderate conductor inferred from Lines 3+00E and 4+00E at the east end of Dunlop Lake. May be due to conductive clays associated with low, swampy ground.

## 4.0 Geochemical Report

### 4.1 Introduction

Geochemical sampling on the Dempster Lake claims was conducted in the periods June 21 to July 5 and August 3 to 7, 1985. A total of 608 samples were collected from a grid established in the Dunlop-Arrowhead Lakes vicinity (Plate 5) and 64 soil samples from an orientation survey off the northwest shore of Dempster Lake (Plates 9 and 10). In addition, 97 soil, 121 rock and 11 lake sediment samples were collected at various locations from the property (Plates 6, 7, 9 and 10).

Where available, the B horizon was selected for sampling. In areas of thick organic cover where the B horizon was not accessible, A horizon soils were collected. Orientation survey results indicate that B horizon samples yield much higher peak values while A horizon samples return more consistent, although subdued, anomalies.

Soil and lake sediment samples were sieved to -80 mesh for gold fire assay (with atomic absorption finish) and 30-element I.C.P. analysis (Appendix 4).

### 4.2 Discussion of Anomalies

Anomalous geochemical results from off-grid sampling are discussed in Section 2.6, "Mineralization". The soil samples collected from the Dunlop-Arrowhead Lakes vicinity yielded the following significant anomalous zones:

#### North of Dunlop Lake

Numerous gold geochemical anomalies (up to 740 ppb) on L2+00E and 3+00E associated with quartzite-magnetite iron formation and adjacent pyroclastics.

#### Southeast of Dunlop Lake

Numerous gold geochemical anomalies (up to 4,150 ppb) on L2+00E, 3+00E and 4+00E associated with quartz-tourmaline veins within siliceous sericite schist and adjacent mafic metavolcanic rocks/chlorite schists.

#### East of Arrowhead Lake

Several gold geochemical anomalies (up to 2,420 ppb) along BLO+00 between L25+00E and 27+25E, associated with quartzite-magnetite iron formation and chlorite schist (possible stratigraphic equivalent to North Dunlop Lake iron formation).

Other Significant Anomalies

L0+00E/4+60N - Single station gold anomaly (330 ppb) in area of poor exposure along strike from sericite-schist outcrop.

L10+00E/3+40N - Two station gold anomaly (up to 105 ppb) in area of pyritic chlorite-magnetite schist and quartzite-magnetite iron formation.

For a full list of chemical analyses, see Appendix 4.

5.0 REFERENCES

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APPENDIX 1

Property Holders

Operator	- Northern Dynasty Explorations Ltd. 844 West Hastings Street Vancouver, B.C. V6C 1C8
Manager	- Dunlop Explorations 208 - 170 East Third Street North Vancouver, B.C. V7L 1E6
Joint Venture Partner	- Newfields Minerals Inc. 1205 - 750 West Pender Street Vancouver, B.C. V6C 2T8

APPENDIX 2

Personnel and Work Periods

Personnel

Work Periods (1985)

Bruce A. Youngman  
208 - 170 East 3rd Street  
North Vancouver, B.C.  
V7L 1E6

June 21 - July 5 (Field)  
November 1 - 30 (Report Preparation)

David W. Tupper  
2657 West 2nd Avenue  
Vancouver, B.C.  
V6K 1K1

June 21 - July 5 (Field)  
August 3 - 7 (Field)  
November 1 - 30 (Report Preparation)

George A. Gorzynski  
156 Glenholme Avenue  
Toronto, Ontario  
M6E 3C4

June 21 - July 5 (Field)  
August 3 - 7 (Field)  
November 1 - 30 (Report Preparation)

H. Eric Ewen  
3229 Ganymede Drive  
Burnaby, B.C.  
V3J 1A5

June 21 - July 5 (Field)  
August 3 - 7 (Field)  
November 1 - 30 (Report Preparation)

Alain Thibault  
Jacqueline Jacques  
P. O. Box 173  
Pickle Lake, Ontario  
POV 3A0

June 21 - July 10  
June 21 - July 10

APPENDIX 3

Technical Data Statements  
and Procedure Records

AGIVE ANALYTICAL LABORATORIES LTD.

PHONE: 253-3158

852 Last Hastings St., Vancouver, B.C. A 1R8

File: 85-1373

Date: JULY 17 1985

NORTHERN DYNASTY EXPLORATION  
 B44 WEST HASTINGS ST  
 VANCOUVER B.C.  
 V6C 1C8

TERMS:  
 NET TWO WEEKS  
 2% PER MONTH CHARGED ON  
 OVERDUE ACCOUNTS

NUMBER	ASSAY	PRICE	AMOUNT
127	ICP ANALYSIS @	6.00	762.00
127	GEOCHEM AU BY FA + AA @	5.50	698.50
71	SOIL SAMPLE PREPARATION @	.60	42.60
56	ROCK SAMPLE PREPARATION @	2.75	154.00
			-----
			1657.10
	GREYHOUND LINES # 11831422		42.60
	GREYHOUND LINES # 11871411		42.60
			-----
	TOTAL		1742.30

**APPROVED FOR  
 PAYMENT**

*Pd. July 23 # 535*

PLEASE PAY LAST AMOUNT →

DEMPSTER LAKE GEOCHEM EXPENDITURES: \$ 1,742.30  
 1,794.40  
7,717.90  
 \$11,254.60

UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF PLANT INDUSTRY  
WASHINGTON, D. C.

UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF PLANT INDUSTRY  
WASHINGTON, D. C.

QUANTITY  
139  
139  
49  
79  
11

TOP ANALYSIS @  
GEORGETOWN BY FA 1.00 @  
ROCK SAMPLE PREPARATION @  
SOIL SAMPLE PREPARATION @  
PULVERIZING SAMPLE @

TOTAL

UNIT	AMOUNT
1.00	139.00
1.00	139.00
.40	47.60
1.25	13.75
<hr/>	
	1794.40

APPROVED FOR  
PAYMENT

PLEASE PAY LAST AMOUNT →

✓ Pd. July 23 # 535

NORTHERN DYNASTY EXPLORATIONS LTD.  
844 WEST HASTINGS STREET  
VANCOUVER, B.C. V6C 1C8

No 535

July 23 19 85

PAY TO THE ORDER OF

ACME ANALYTICAL LABORATORIES LTD.

\$ 3,536.70

Three thousand, five hundred and thirty-six  $\frac{70}{100}$  DOLLARS

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B.C. 77160-009  
ROYAL BANK  
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BRITISH  
COLUMBIA PC

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106 0000001  
1068 36018

ACME ANALYTICAL LABORATORIES LTD.

PHONE: 253-3153

852 1st Hastings St., Vancouver, B.C. V1R8

File: 85-1874

Date: AUG 21 1985

NORTHERN DYNASTY EXPLORATION  
 844 W. HASTINGS ST  
 VANCOUVER B.C.  
 V6C 1C8

TERMS:  
 NET TWO WEEKS  
 2% PER MONTH CHARGED ON  
 OVERDUE ACCOUNTS.

NUMBER	ASSAY	PRICE	AMOUNT
635	ICP ANALYSIS @	6.00	3810.00
635	GEOCHEM AU BY FA + AA @	5.50	3492.50
619	SOIL SAMPLE PREPARATION @	.60	371.40
16	ROCK SAMPLE PREPARATION @	2.75	44.00
TOTAL			7717.90

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 PAYMENT

OJV.

*Pl Aug 21 1985*

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1468 76534

APPENDIX 4

Chemical Analyses

REFERENCE GUIDE TO SAMPLE NUMBERING SCHEME

1. SAMPLES COLLECTED ON GRID LINES:

$\frac{DL}{(1)}$        $\frac{4+00E \quad 3+10N}{(2)}$

(1) = Property reference: DL = Dempster Lake

(2) = Location on cut grid.

2. OFF-GRID SAMPLES:

$\frac{E}{(1)}$     $\frac{D}{(2)}$     $\frac{5}{(3)}$    -    $\frac{S}{(4)}$     $\frac{10}{(5)}$

(1) = Sampler.

(2) = Property reference: D = Dempster Lake

(3) = Year of work: (5 = 1985)

(4) = Sample medium:    S = soil  
                              R = rock  
                              SS = stream sediment  
                              LS = lake sediment

(5) = Sample number.

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3150

DATA LINE 251-1011

**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3:1-2 HCL-HNO<sub>3</sub>-H<sub>2</sub>O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR NH<sub>3</sub>, FE, CA, P, CR, NG, BA, TI, B, AL, NA, K, W, BI, ZR, CE, SA, Y, ND AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
SAMPLE TYPE: ROCK CHIPS. ANALYSIS BY FA-AA FROM 10 GRAM SAMPLE.  
P3-J 3-15 - 11 each 18 - both and - purchased

DATE RECEIVED: JULY 11 1985 DATE REPORT MAILED: *July 19/85* ASSAYER: *J. Landry* DEAN TOYE OR TOM SAUNDY. VERIFIED B.C. ASSOCIATION

NORTHERN DYNASTY FILE # 05-1330

PAGE 1

SAMPLE	No	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Pb	V	Cr	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Aux	
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	1	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	1	1	PPM	PPM	1	PPM	1	1	1	1	1	1	1	PPM
605-R-1	1	71	6	73	2.3	20	13	133	3.72	3	5	ND	4	88	1	2	2	24	.88	.09	27	27	.89	22	.01	7	.79	.05	.04	1	810	
605-R-2	1	10	4	5	7.0	8	4	159	1.53	3	5	9	1	18	1	2	2	2	.06	.07	10	4	.03	21	.01	35	.07	.02	.01	1	955C	
605-R-3	1	25	6	49	7.7	20	18	509	4.56	4	5	4	4	51	1	2	4	10	.45	.12	28	16	.36	69	.01	13	.48	.06	.04	1	985C	
605-R-4	1	5	4	7	.7	1	2	36	.57	4	5	4	1	8	1	2	2	1	.02	.01	5	1	.01	17	.01	6	.05	.02	.01	1	985	
605-R-5	1	5	7	8	.1	5	2	74	.48	2	5	ND	1	21	1	2	2	1	.14	.01	8	1	.02	20	.01	9	.06	.02	.02	1	85	
605-R-6	9	5	4	7	.7	4	2	63	.35	3	5	ND	1	15	1	2	2	1	.10	.01	4	1	.02	20	.01	7	.06	.02	.01	1	124C	
605-R-7	1	11	2	10	.5	6	2	280	1.26	4	5	ND	1	28	1	2	2	1	.22	.02	8	2	.09	10	.01	41	.05	.01	.01	1	89C	
605-R-8	1	23	10	63	.3	18	17	639	4.01	4	5	ND	4	143	1	2	2	12	1.50	.14	33	17	.84	83	.01	9	.58	.04	.06	1	465	
605-R-9	1	10	7	32	.1	5	4	259	1.30	4	5	ND	2	34	1	2	2	3	.86	.05	20	3	.24	55	.01	2	.44	.04	.07	1	19	
605-R-10	1	1	2	7	.3	1	2	17	.41	4	5	ND	2	11	1	2	2	2	.02	.01	12	2	.01	55	.01	7	.18	.03	.07	1	27	
605-R-11	1	28	3	72	2.5	16	9	127	3.66	5	5	4	3	22	1	2	2	29	.11	.09	32	28	.54	88	.01	4	.77	.04	.04	1	2110	
605-R-12	4	1	51	8	.9	2	2	38	.51	2	5	ND	1	10	1	2	2	2	.02	.01	7	7	.01	40	.01	3	.16	.04	.06	1	710	
605-R-13	1	14	5	39	.1	17	5	218	1.25	6	5	ND	1	11	1	2	2	5	.02	.02	4	4	.13	30	.01	9	.54	.03	.15	1	25	
605-R-14	1	13	4	52	.1	12	7	118	2.26	7	5	ND	2	27	1	2	2	8	.12	.05	15	3	.37	30	.01	5	1.02	.07	.08	1	4	
605-R-15	1	15	17	101	.1	62	25	691	5.74	5	5	ND	4	46	1	2	2	85	.65	.18	49	235	2.23	40	.01	10	2.43	.04	.03	1	2	
605-R-16	1	7	8	16	.1	6	4	130	1.91	6	5	ND	2	19	1	2	3	33	.31	.05	9	24	.30	24	.10	3	1.12	.03	.04	1	7	
705-R-1	1	20	9	45	.1	20	7	240	1.74	5	5	ND	1	15	1	2	2	4	.17	.04	13	7	.25	33	.01	10	.69	.02	.10	1	5	
705-R-2	1	28	4	65	.1	33	11	285	2.46	3	5	ND	1	17	1	2	2	6	.24	.04	11	9	.40	27	.01	7	.96	.02	.09	1	7	
705-R-3	2	28	97	622	1.6	3	2	196	.49	3	5	ND	2	25	3	2	2	1	.12	.02	10	2	.02	42	.01	9	.12	.02	.05	1	1050	
705-R-4	1	4	20	66	.3	3	1	60	.48	6	5	ND	1	18	1	2	2	1	.06	.01	5	1	.01	22	.01	4	.07	.02	.02	1	1210C	
705-R-5	1	4	33	44	.2	4	3	91	.80	4	5	ND	4	16	1	2	2	2	.07	.03	11	2	.02	63	.01	2	.19	.04	.08	1	43	
705-R-6	1	80	6	84	.1	36	17	684	4.20	10	5	ND	1	48	1	2	2	63	1.87	.06	11	17	1.23	36	.08	2	1.89	.02	.06	1	2	
705-R-7	6	144	4	14	.4	16	11	672	2.28	9	8	ND	2	190	1	2	2	3	3.50	.05	7	6	.35	57	.01	7	.18	.02	.07	1	440	
705-R-8	6	24	5	36	.1	18	10	143	2.33	8	5	ND	1	14	1	2	2	6	.05	.02	7	4	.16	54	.01	6	.46	.02	.09	1	670	
705-R-9	7	18	6	37	.2	37	11	190	2.50	7	5	ND	1	17	1	2	2	6	.09	.01	4	5	.14	34	.01	5	.58	.02	.07	1	135	
705-R-1	1	44	6	79	.2	18	12	540	3.50	3	5	ND	3	58	1	2	2	30	.67	.13	37	30	.72	110	.01	7	.79	.04	.07	1	4	
705-R-2	1	43	2	91	.2	19	13	813	3.83	2	5	ND	6	122	1	2	2	31	1.44	.15	41	40	1.21	103	.01	11	.98	.06	.06	1	15	
705-R-3	2	4	2	57	.2	10	3	138	1.65	4	5	ND	4	32	1	2	2	5	.18	.06	25	2	.35	94	.01	4	.55	.05	.09	1	463	
705-R-4	12	9	31	30	.7	10	5	123	1.57	4	5	ND	1	20	1	2	2	3	.20	.04	5	4	.09	45	.01	1	.31	.04	.11	1	440	
705-R-5	1	22	7	58	1.3	15	12	352	3.35	8	5	4	3	40	1	2	2	16	.30	.07	28	17	.46	61	.01	5	.61	.04	.05	1	19260	
705-R-6	1	13	4	34	.1	9	8	239	2.44	6	5	ND	1	20	1	2	3	10	.10	.04	26	10	.22	39	.01	28	.35	.04	.03	1	350	
705-R-7	2	4	4	9	.1	4	2	28	.51	6	5	ND	1	10	1	2	2	2	.02	.01	7	1	.01	53	.01	3	.17	.04	.07	1	260	
705-R-8	1	19	4	19	.1	6	3	134	1.49	4	5	ND	3	13	1	2	2	6	.07	.03	13	4	.04	51	.01	4	.32	.05	.07	1	7	
705-R-9	1	22	3	70	.1	13	9	105	3.18	2	5	ND	3	16	1	2	2	30	.04	.03	30	24	.52	47	.01	5	.74	.05	.04	1	510	
705-R-10	1	19	8	60	1.1	15	13	261	3.31	5	5	ND	3	40	1	2	3	19	.32	.07	25	20	.50	72	.01	11	.62	.04	.05	1	1810	
705-R-11	2	2	4	8	.1	4	2	31	.50	6	5	ND	1	11	1	2	2	2	.01	.01	10	1	.01	43	.01	6	.14	.04	.05	1	42	
STB C/F8-AU	20	59	39	133	6.9	67	29	1166	3.94	40	18	7	38	52	17	13	21	56	.48	.14	77	61	.88	183	.00	38	1.71	.06	.12	11	55	

NORTHERN DYNASTY FILE # 105 10 000

TABLE

SAMPLE#	No PPH	Cu PPH	Pb PPH	Zn PPH	Ag PPH	Ni PPH	Co PPH	Mn PPH	Fe 1	As PPH	U PPH	Au PPH	Tl PPH	Sr PPH	Cd PPH	Sb PPH	Bi PPH	V PPH	Ca 1	P 1	La PPH	Cr PPH	Hg 1	Ba PPH	Li 1	B PPH	Al 1	K 1	Si 1	M PPH	Au PPH
YDS-R-12	2	10	2	21	.1	13	4	81	1.47	2	5	ND	1	14	1	2	2	3	.05	.02	7	5	.04	37	.01	5	.22	.02	.08	1	27
YDS-R-13	2	5	6	18	.1	10	4	42	.81	2	5	ND	1	17	1	2	2	3	.03	.01	8	3	.11	32	.01	6	.32	.02	.08	1	85
YDS-R-14	1	5	2	13	.1	7	2	33	.59	2	5	ND	2	14	1	2	2	3	.02	.01	11	3	.03	43	.01	4	.19	.03	.06	1	24
EDS-R-1	1	19	4	29	.1	13	6	559	1.74	2	5	ND	2	67	1	2	2	3	2.59	.05	10	6	.69	43	.01	3	.46	.02	.06	1	5
EDS-R-2	1	39	3	34	.1	10	3	366	1.34	2	5	ND	1	20	1	2	2	2	.53	.03	5	4	.29	35	.01	6	.39	.02	.04	1	4
EDS-R-3	1	34	2	40	.2	11	6	333	1.51	2	5	ND	1	42	1	2	2	2	1.73	.04	7	4	.32	40	.01	11	.52	.04	.04	1	6
EDS-R-4	2	5	9	18	.2	9	4	94	.91	2	5	ND	4	14	1	2	2	3	.15	.03	11	5	.17	29	.01	5	.32	.05	.05	1	410
EDS-R-5	1	11	6	12	.5	7	6	259	1.03	3	6	ND	6	76	1	2	2	1	.66	.06	17	3	.11	76	.01	3	.18	.04	.08	1	190
EDS-R-6	1	28	10	140	.1	45	21	1009	4.62	2	5	ND	6	443	1	2	2	55	4.07	.15	20	194	3.07	274	.15	2	1.65	.02	.91	1	58
EDS-R-7	1	9	7	29	.2	13	5	97	1.57	2	5	ND	1	13	1	2	2	5	.05	.02	2	8	.15	25	.01	4	.39	.03	.08	1	5
EDS-R-8	1	10	3	50	.1	27	6	250	1.90	2	5	ND	1	17	1	2	3	7	.15	.03	3	10	.37	21	.01	6	.71	.03	.06	1	1
EDS-R-9	1	10	5	32	.2	16	5	172	1.51	2	5	ND	1	17	1	2	2	5	.02	.02	2	6	.23	21	.01	2	.56	.04	.06	1	1
EDS-R-10	1	14	2	41	.3	17	6	339	2.22	2	5	ND	1	16	1	2	2	7	.05	.02	2	5	.33	24	.01	7	.74	.04	.06	1	7
STD C/F/A-AU	20	60	39	138	6.8	71	27	1178	3.93	39	17	8	40	54	17	15	21	57	.48	.15	37	60	.88	184	.08	38	1.71	.06	.12	11	52

NORTHERN DYNASTY FILE # 85-1330

SAMPLED	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	M	Acid
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	I	PPM	PPM	I	PPM	I	PPM	I	I	I	PPM	PPM
EDS-S-1	1	8	10	19	.1	7	1	49	1.86	4	5	ND	1	8	1	2	3	11	.07	.03	13	10	.09	27	.01	2	.66	.01	.02	1	6
EDS-S-2	2	9	4	30	.3	10	3	48	1.39	2	5	ND	2	7	1	2	2	19	.06	.04	25	21	.19	77	.01	2	.92	.01	.02	1	41
EDS-S-3	2	21	10	62	.3	15	13	309	4.73	8	5	ND	2	13	1	2	2	37	.21	.09	33	40	.36	46	.01	2	1.45	.01	.03	1	35
EDS-S-4	1	3	4	10	.2	4	1	24	.36	2	5	ND	2	7	1	2	2	11	.10	.01	12	6	.08	27	.04	2	.49	.01	.02	1	75
YDS-S-1	2	20	11	37	.6	5	7	149	3.06	2	5	ND	3	8	1	2	3	26	.06	.07	35	10	.14	32	.02	2	.65	.01	.03	1	2400
YDS-S-2	1	33	23	52	.3	20	5	508	1.60	2	5	ND	1	27	1	2	2	10	.47	.14	9	30	.24	96	.01	2	.45	.01	.03	1	43
YDS-S-3	1	3	7	8	.2	2	1	37	.64	2	5	ND	2	7	1	2	2	14	.10	.02	9	6	.03	22	.03	2	.35	.01	.02	1	2
YDS-S-4	1	8	26	30	.1	7	1	53	.46	6	5	ND	1	14	2	2	3	6	.17	.12	5	4	.05	56	.01	2	.57	.01	.04	1	2
YDS-S-5	1	1	2	7	.1	1	1	24	.44	2	5	ND	1	4	1	2	2	2	.04	.02	9	4	.02	25	.01	2	.29	.01	.02	1	10
YDS-S-6	1	9	11	20	.2	4	1	519	.59	8	5	ND	1	11	1	2	2	12	.14	.03	16	8	.06	73	.02	2	.56	.01	.02	1	37
YDS-S-7	1	4	7	16	.2	4	2	55	1.57	4	5	ND	3	8	1	2	5	38	.09	.03	7	11	.13	30	.10	2	.61	.01	.01	1	4
YDS-S-1	1	8	3	21	.1	8	4	99	1.95	2	5	ND	5	10	1	2	4	36	.20	.06	10	16	.25	70	.11	2	.94	.01	.02	1	12
YDS-S-2	1	3	7	6	.2	1	1	22	.26	2	5	ND	1	8	1	2	4	9	.08	.02	7	3	.05	22	.03	2	.28	.01	.02	1	2
YDS-S-3	1	1	1	4	.2	1	1	19	.25	3	5	ND	2	4	1	2	4	10	.04	.01	6	2	.03	10	.05	2	.28	.01	.01	1	1
ML 0+00 A	1	9	16	16	.1	4	1	134	.55	2	5	ND	1	26	1	2	2	11	.61	.06	8	7	.08	46	.04	2	.43	.01	.03	1	12
ML 0+00 C	1	1	16	5	.1	3	1	23	.47	2	5	ND	3	12	1	2	2	14	.20	.01	11	7	.07	13	.07	2	.53	.01	.01	1	5
ML 0+03A A	1	13	13	11	.1	11	1	46	.29	5	5	ND	1	48	3	2	2	5	.56	.06	3	3	.05	171	.01	2	.27	.01	.03	1	7
ML 0+03A B	1	4	4	16	.1	4	3	88	1.33	2	5	ND	3	9	1	2	4	37	.11	.01	7	11	.29	34	.16	2	.76	.01	.04	1	4
ML 0+06A A	1	3	36	46	.3	4	1	99	.51	7	9	ND	1	28	1	2	2	10	.53	.10	3	7	.09	89	.01	2	.48	.01	.06	1	6
ML 0+06A B	1	5	5	12	.1	1	1	47	1.77	3	5	ND	5	8	1	2	2	41	.11	.02	7	14	.11	33	.12	2	.87	.01	.02	1	2
ML 0+09A A	1	13	25	22	.1	6	1	26	.38	2	5	ND	1	19	2	2	2	6	.26	.07	7	3	.03	89	.01	2	.36	.01	.01	1	1
ML 0+09A C	1	13	8	12	.3	3	1	21	.41	3	5	ND	1	10	1	2	2	5	.10	.05	10	3	.03	63	.01	2	.34	.01	.02	1	2
ML 0+12A A	1	8	17	41	.2	2	1	26	.31	2	6	ND	1	20	1	2	2	5	.37	.06	5	3	.04	100	.01	6	.26	.01	.03	1	65
ML 0+15A A	1	8	32	50	.1	5	1	463	.40	4	5	ND	1	25	1	2	2	8	.60	.07	4	3	.04	132	.02	9	.26	.01	.04	1	7
ML 0+15A B	1	10	10	21	.1	9	4	83	2.70	7	5	ND	4	8	1	2	6	44	.11	.05	9	26	.22	37	.14	2	2.08	.01	.02	1	5
ML 0+15A C	1	3	3	7	.1	1	1	12	.31	2	5	ND	1	9	1	2	2	4	.10	.03	9	1	.02	54	.01	2	.23	.01	.01	1	115
ML 0+18A A	1	5	13	18	.1	1	1	49	.60	2	5	ND	1	14	1	2	2	15	.25	.05	3	6	.05	78	.03	2	.26	.01	.03	1	4
ML 0+18A B	1	9	5	21	.1	8	4	105	3.41	6	5	ND	5	9	1	2	5	48	.14	.06	8	26	.26	29	.15	5	1.20	.01	.01	1	6
ML 0+21A A	1	3	34	26	.2	2	1	51	.36	2	6	ND	1	21	1	2	2	7	.39	.11	2	3	.05	96	.01	11	.31	.01	.05	1	25
ML 0+21A C	1	1	7	9	.1	2	1	33	.96	2	5	ND	2	7	1	2	3	29	.07	.02	8	12	.07	30	.09	2	.45	.01	.01	1	7
ML 0+24A A	1	4	34	19	.1	1	1	62	.47	7	5	ND	1	24	2	2	2	9	.30	.09	4	4	.05	105	.02	2	.33	.01	.05	1	7
ML 0+24A B	1	11	8	18	.1	6	5	90	2.59	3	5	ND	5	7	1	2	3	34	.13	.06	8	24	.21	29	.14	4	1.93	.01	.02	1	7
ML 0+27A A	1	4	20	12	.1	2	1	39	.69	2	5	ND	1	14	1	2	2	18	.27	.04	4	8	.04	61	.04	3	.28	.01	.03	1	2
ML 0+27A B	1	10	6	18	.2	9	5	85	2.50	11	5	ND	5	8	1	2	2	40	.13	.04	9	25	.23	25	.13	3	1.47	.01	.02	1	9
ML 0+30A A	1	3	20	26	.1	2	1	47	.31	5	5	ND	1	18	1	2	2	6	.33	.06	2	3	.05	58	.01	2	.31	.01	.04	1	16
ML 0+30A B	1	9	6	15	.1	10	5	86	2.34	2	5	ND	5	9	1	2	3	31	.14	.04	9	21	.22	24	.11	4	1.29	.01	.02	1	2
STD C/AU-AU	19	59	37	127	7.0	67	26	1083	3.94	38	17	7	36	48	17	15	22	58	.48	.14	36	57	.67	171	.07	38	1.71	.04	.11	11	50

NORTHERN DYNASTY FILE # BS-1338

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Tl	Sr	Cd	Sn	Bi	V	Ca	P	La	Er	Mg	Ba	Ti	B	Al	Na	K	M	Au11
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH
ML 0+35M A	1	28	4	8	.1	11	3	42	1.22	2	6	ND	1	28	1	2	2	6	.43	.12	73	15	.10	64	.03	6	1.10	.01	.02	1	2
ML 0+35M B	1	11	2	21	.1	15	6	116	1.53	2	5	ND	4	14	1	2	2	20	.31	.06	18	17	.30	32	.08	7	.81	.01	.03	1	1
ML 0+10M A	1	11	5	6	.2	3	2	57	.47	2	5	ND	1	47	1	2	2	4	1.99	.05	18	3	.09	87	.01	4	.33	.01	.01	1	2
ML 0+15M A	2	10	3	14	.1	4	1	40	.19	2	5	ND	1	47	1	2	2	2	3.85	.04	7	3	.14	77	.01	9	.17	.01	.01	1	4
ML 0+50M A	1	5	5	6	.2	1	1	35	.12	2	7	ND	1	27	1	3	2	2	1.96	.03	2	1	.10	45	.01	4	.11	.01	.01	1	3
FR 0+05 A	1	11	14	11	.1	3	1	39	.17	3	5	ND	1	33	1	2	2	2	.46	.05	2	3	.07	50	.01	8	.15	.01	.04	1	15
FR 0+05 B	1	5	3	3	.1	1	1	12	.20	2	5	ND	1	6	1	2	2	3	.05	.01	6	3	.01	25	.01	4	.16	.01	.01	1	105
FR 0+25 A	1	11	19	24	.1	4	1	125	.45	8	5	ND	1	38	1	2	2	5	.57	.08	4	3	.07	116	.01	7	.36	.01	.07	1	60
FR 0+25 B	1	10	9	6	.1	1	1	19	.30	2	5	ND	1	9	1	2	2	5	.07	.02	7	2	.02	40	.01	3	.40	.01	.03	1	315
FR 0+45 A	1	14	29	12	.1	11	2	53	.40	5	5	ND	1	42	1	3	3	4	.20	.12	5	4	.06	63	.01	3	.40	.01	.04	1	26
FR 0+45 B	1	5	9	5	.1	2	1	32	.29	2	5	ND	1	7	1	2	2	5	.04	.02	6	4	.02	30	.01	6	.29	.01	.02	1	65
FR 0+65 A	1	11	27	25	.1	4	2	82	.47	10	5	ND	1	27	1	2	2	8	.34	.08	3	4	.09	85	.01	6	.41	.01	.11	1	25
FR 0+65 B1	1	5	4	8	.1	1	2	34	.66	2	5	ND	1	5	1	2	2	12	.03	.01	11	5	.05	23	.01	2	.46	.01	.01	1	755
FR 0+65 B2	3	15	14	24	.1	6	5	81	3.43	4	5	ND	2	8	1	2	2	31	.06	.03	15	11	.14	27	.02	7	1.07	.01	.02	1	1560
FR 0+85 A	1	10	40	36	.1	3	2	71	.44	11	5	ND	1	21	1	2	2	7	.30	.09	3	4	.08	41	.01	2	.37	.01	.07	1	58
FR 0+85 B1	1	5	7	7	.1	1	1	31	.61	2	5	ND	1	5	1	2	2	17	.03	.01	13	5	.04	18	.02	3	.46	.01	.01	1	790
FR 0+85 B2	2	6	8	14	.1	4	3	47	1.47	5	5	ND	2	6	1	2	4	37	.05	.01	12	11	.09	21	.04	2	.71	.01	.01	1	960
FR 1+05 A	1	12	51	23	.1	13	2	60	.61	5	5	ND	1	27	2	2	2	8	.39	.13	5	5	.06	89	.01	6	.50	.01	.05	1	29
FR 1+05 B	1	4	8	6	.1	2	2	34	.65	3	5	ND	1	7	1	2	2	17	.06	.02	10	6	.03	...	.01	2	.32	.01	.02	1	95
FR 1+25 A	1	20	29	15	.1	12	2	42	.68	6	5	ND	1	26	2	2	2	9	.29	.12	7	6	.05	...	.01	2	.49	.01	.05	1	38
FR 1+25 B	1	6	5	4	.1	4	1	42	.60	2	5	ND	1	3	1	2	2	11	.03	.01	9	5	.02	13	.01	2	.22	.01	.01	1	22
FR 1+45 A	1	11	35	26	.1	6	1	41	.40	10	5	ND	1	26	1	2	2	7	.26	.08	2	4	.09	86	.01	2	.36	.01	.04	1	4
FR 1+45 B1	1	2	6	5	.1	1	2	30	.49	2	5	ND	3	7	1	2	2	21	.05	.01	8	7	.03	18	.06	4	.26	.01	.01	1	5
FR 1+45 B2	2	16	20	24	.1	13	6	119	3.65	5	5	ND	5	9	1	2	4	57	.10	.03	7	27	.32	37	.16	2	1.86	.01	.03	1	5
FR 1+65 A	1	11	31	19	.1	4	1	34	.30	3	5	ND	1	31	1	2	2	6	.53	.06	2	3	.08	59	.01	2	.27	.01	.03	1	12
FR 1+65 B1	1	3	11	12	.1	3	3	56	1.68	5	5	ND	4	9	1	2	2	45	.10	.01	7	14	.12	21	.12	2	.55	.01	.02	1	9
FR 1+65 B2	1	23	15	24	.1	16	9	126	3.14	13	5	ND	8	10	1	2	3	43	.15	.03	14	33	.35	30	.13	2	2.47	.01	.03	1	20
FR 1+85 A	1	8	22	15	.1	6	2	51	.31	8	5	ND	1	51	1	2	2	5	.69	.06	2	4	.10	82	.01	6	.34	.01	.03	1	4
FR 1+85 B1	1	2	8	4	.1	2	2	23	.35	2	5	ND	2	9	1	2	2	13	.08	.01	6	5	.03	14	.05	2	.27	.01	.01	1	2
FR 1+85 B2	1	4	10	13	.1	5	4	66	1.57	2	5	ND	4	11	1	2	2	40	.15	.01	11	14	.19	18	.11	2	1.03	.01	.02	1	2
AB 0+0M A	2	11	27	22	.1	3	2	88	.46	13	5	ND	1	22	1	2	2	5	.20	.13	4	5	.06	73	.01	6	.34	.01	.08	1	3
AB 1+0M A	1	11	26	45	.1	3	2	318	.50	2	5	ND	1	31	1	2	2	8	.57	.11	3	5	.09	144	.01	4	.31	.01	.05	1	1
AB 1+0M B1	1	4	9	9	.1	2	1	34	.74	2	5	ND	1	9	1	2	2	12	.09	.02	7	9	.03	42	.02	4	.19	.01	.01	1	1
AB 1+0M B2	1	12	15	11	.1	8	5	126	2.64	3	5	ND	4	10	1	2	2	33	.15	.39	11	26	.27	35	.08	2	1.83	.01	.02	1	2
AB 2+0M A	2	9	35	86	.3	4	2	5872	.36	2	5	ND	1	63	1	2	2	6	1.99	.13	2	3	.11	381	.01	12	.26	.01	.08	1	8
AB 2+0M B1	1	2	6	14	.1	3	2	99	.92	2	5	ND	2	12	1	2	2	17	.24	.04	7	12	.10	39	.06	2	.32	.01	.03	1	3
ST9 C/FR AU	21	61	41	139	6.7	70	29	1189	3.94	38	17	7	36	49	18	16	21	57	.48	.14	40	56	.88	183	.07	39	1.71	.07	.12	11	50

NORTHERN DYNASTY FILE # 85-1338

PAGE 5

SAMPLES	Ni	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	M	Au11
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
AB 2+0N B2	1	7	6	15	.2	4	3	83	1.52	3	5	ND	5	9	1	2	2	21	.11	.13	8	15	.11	26	.07	2	.66	.01	.02	1	2
AB 3+0N A	1	10	33	102	.1	5	2	1375	.53	9	5	ND	1	35	1	2	2	7	.74	.16	2	4	.11	202	.01	7	.27	.01	.11	1	1
AB 3+0N B1	1	11	7	24	.1	7	4	122	2.55	6	5	ND	5	10	1	2	2	33	.16	.29	10	26	.21	46	.10	6	.83	.01	.03	1	1
AB 3+0N B2	1	16	12	26	.2	6	3	108	2.40	6	5	ND	5	8	1	3	2	29	.12	.33	12	29	.21	26	.08	5	1.07	.01	.63	1	1
AB 4+0N A	1	7	10	10	.1	2	1	27	.13	4	5	ND	1	38	1	2	2	2	.33	.08	2	2	.06	119	.01	2	.12	.01	.04	1	10
AB 4+0N B1	1	2	3	6	.1	1	1	27	.97	3	5	ND	2	7	1	2	3	18	.07	.02	6	12	.04	19	.07	2	.22	.01	.01	1	2
AB 4+0N B2	1	8	12	22	.2	7	5	113	2.82	2	5	ND	6	8	1	2	2	41	.13	.29	9	23	.27	33	.14	2	.78	.01	.02	1	2
STD C/FA-AU	20	59	41	138	2.2	69	28	1180	3.92	40	18	7	39	53	17	15	22	57	.48	.15	38	61	.88	184	.08	41	1.71	.07	.11	11	19



NORTHERN DYNASTY FILE # 85-1338

SAMPLE	No PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	V PPM	Aut PPM
605-LS-1	1	1	5	21	.1	4	2	182	.57	3	5	ND	1	12	1	2	3	8	.41	.07	8	6	.11	18	.04	7	.22	.02	.05	1	1
605-LS-2	1	21	19	148	.1	18	6	1127	2.90	4	5	ND	1	25	1	2	2	27	1.41	.16	31	24	.35	87	.05	20	1.09	.01	.06	1	2
605-LS-3	1	20	18	136	.1	13	5	940	2.54	7	5	ND	2	23	1	2	2	24	1.32	.15	28	23	.33	77	.05	13	.99	.01	.05	1	2
605-LS-4	1	17	18	119	.1	17	5	837	2.28	10	5	ND	2	21	1	2	2	22	1.08	.14	24	20	.50	64	.05	11	.84	.01	.05	1	1
605-LS-5	1	18	21	139	.1	16	5	965	2.45	5	5	ND	1	23	1	2	2	24	1.33	.15	29	24	.33	78	.05	11	1.00	.01	.05	1	3
605-LS-6	1	15	10	104	.2	12	5	701	2.01	3	5	ND	2	19	1	2	3	19	.99	.13	20	19	.27	49	.05	8	.68	.01	.04	1	4
605-LS-7	1	14	10	101	.1	12	5	646	1.90	5	5	ND	2	20	1	2	2	20	1.04	.14	22	19	.28	53	.05	11	.71	.02	.05	1	1
605-LS-8	1	26	19	170	.1	19	7	867	3.15	3	5	ND	2	25	2	2	2	30	1.45	.17	39	26	.35	91	.05	19	1.26	.01	.06	1	2
605-LS-9	1	28	28	171	.3	19	6	478	2.52	13	5	ND	1	26	1	2	2	31	1.44	.18	38	27	.35	90	.04	18	1.45	.01	.06	1	1
605-LS-10	1	5	8	33	.1	6	3	183	1.10	2	5	ND	1	14	1	2	2	13	.58	.08	12	17	.17	18	.06	2	.35	.03	.03	1	1
605-LS-11	1	6	2	48	.2	5	5	547	2.03	3	5	ND	6	59	1	2	2	36	.68	.11	8	11	.63	187	.13	2	.87	.04	.33	2	3
STB C/FA-MU	19	41	40	157	7.2	69	27	1140	3.90	38	18	7	38	50	17	15	22	61	.48	.14	39	59	.88	180	.08	41	1.71	.06	.11	11	50

FILE

ACME ANALYTICAL LABORATORIES LTD.

B52 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

DATA LINE 251-1011

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR AN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, V, SI, ZR, CE, SM, Y, VO AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 SAMPLE TYPE: SOILS -80 MESH ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE.  
 PJ-4 ROCKS

DATE RECEIVED: JULY 13 1985 DATE REPORT MAILED: *July 17/85* ASSAYER: *V. Saundrey* DEAN TOYE OR TOM SAUNDREY, CERTIFIED B.C. ASSAYER

NORTHERN DYNASTY FILE # 85-1373

PAGE 1

SAMPLED	NO	Ca	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Ka	K	V	Au**
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	1	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	1	1	PPM	PPM	1	PPM	1	1	1	1	1	PPM	PPM
Y85-5-8	4	81	13	45	.2	26	11	211	10.58	28	5	ND	4	4	1	2	3	218	.13	.03	2	82	.58	43	.18	2	2.60	.01	.03	9	20
Y85-5-9	34	218	32	76	.2	20	12	643	15.49	14	5	2	6	7	1	3	2	47	.08	.04	10	25	.48	21	.08	2	1.70	.01	.01	13	1850
Y85-5-10	13	39	14	38	.1	3	3	199	4.53	20	5	ND	1	3	1	2	5	31	.07	.03	2	7	.20	7	.03	3	.62	.01	.01	4	19
Y85-5-11	6	88	14	64	.1	14	7	164	8.41	8	5	ND	5	6	1	2	4	50	.08	.03	2	31	.47	34	.08	2	1.97	.01	.03	1	75
Y85-5-12	22	108	71	78	.4	14	3	202	10.80	34	5	ND	6	6	1	3	6	52	.06	.05	4	269	.47	66	.14	2	1.48	.01	.13	1	38
Y85-5-13	1	15	10	45	.1	50	8	201	2.42	4	5	ND	2	20	1	2	3	61	.13	.02	3	102	.99	48	.20	2	1.72	.01	.12	1	2
Y85-5-14	2	14	18	54	.1	17	3	118	5.42	13	5	ND	4	4	1	2	4	58	.03	.03	4	60	.47	19	.05	2	1.74	.01	.02	1	935
Y85-5-15	4	10	8	35	.1	26	7	112	3.21	3	5	ND	3	5	1	2	2	101	.06	.01	3	112	1.05	24	.25	3	1.80	.01	.03	11	9
Y85-5-16	19	10	13	89	.1	37	6	388	5.89	6	5	ND	3	7	1	5	2	41	.14	.03	4	59	1.49	27	.15	3	1.82	.01	.03	1	785
Y85-5-17	6	7	14	34	.3	3	1	77	.48	7	5	ND	1	13	1	2	2	5	.21	.04	5	3	.04	113	.01	2	.27	.01	.02	1	785
Y85-5-18	20	17	10	60	.3	30	12	190	9.49	6	5	ND	2	4	1	2	2	293	.16	.05	2	74	1.04	137	.53	2	1.80	.01	.02	1	12
Y85-5-20	1	32	20	46	.2	14	6	113	1.76	7	5	ND	2	11	1	2	2	31	.12	.07	5	18	.33	39	.01	2	.84	.01	.04	1	8
Y85-5-21	1	7	5	52	.2	51	11	134	3.61	7	5	ND	4	7	1	4	2	137	.06	.03	3	188	1.56	122	.35	3	1.97	.01	.29	1	2
Y85-5-22	1	14	20	23	.4	10	2	47	.62	3	5	ND	1	18	1	3	2	8	.16	.09	4	8	.10	79	.01	2	.49	.01	.04	1	13
Y85-5-23	2	45	12	52	.1	24	9	223	4.89	3	5	ND	3	14	1	2	5	93	.08	.03	3	43	.86	36	.21	3	1.54	.01	.02	1	7
Y85-5-24	1	13	4	19	.2	11	4	80	1.60	7	5	ND	4	6	1	2	2	34	.10	.03	7	21	.28	15	.10	2	.86	.01	.02	1	4
Y85-5-25	2	11	14	20	.2	3	2	64	.52	4	5	ND	2	13	1	2	2	9	.15	.03	9	5	.06	72	.01	2	.39	.01	.04	1	3
Y85-5-26	1	10	9	9	.1	3	1	32	.61	3	5	ND	5	6	1	3	2	17	.07	.01	9	9	.07	25	.09	2	.53	.01	.02	1	6
Y85-5-27	1	10	9	27	.1	8	4	84	2.44	5	5	ND	5	4	1	3	2	56	.06	.03	8	19	.53	22	.14	2	.96	.01	.04	12	12
685-5-1	10	106	16	83	.3	9	9	323	21.75	6	5	ND	7	12	1	2	2	116	.13	.06	2	20	.48	50	.06	2	1.40	.07	.17	1	2
685-5-2	8	104	19	144	.1	10	7	179	18.27	3	5	ND	5	3	1	2	2	158	.05	.10	2	36	.61	23	.07	2	2.74	.01	.03	1	5
685-5-3	1	31	10	83	.1	13	14	751	5.86	6	5	ND	3	5	1	2	4	134	.25	.05	2	15	.23	17	.04	5	1.34	.01	.03	1	2
685-5-4	4	57	10	88	.5	5	2	356	10.63	8	5	ND	3	10	1	2	2	209	.28	.05	3	50	.63	107	.19	2	2.08	.03	.26	1	2
685-5-5	1	7	6	10	.1	1	1	27	.49	2	5	ND	1	4	1	2	2	12	.02	.01	4	4	.06	19	.01	2	.48	.01	.03	1	3
685-5-6	1	40	6	35	.1	15	6	246	5.28	2	5	ND	4	4	1	2	2	133	.09	.02	4	73	.87	32	.34	4	1.81	.01	.04	1	2
685-5-7	7	25	19	57	.3	27	3	123	9.79	39	6	ND	7	24	1	4	2	53	.02	.09	9	119	.59	60	.10	2	1.74	.02	.15	1	38
685-5-8	5	33	22	41	.1	23	6	98	6.14	459	5	ND	9	6	1	2	4	50	.05	.04	11	66	.29	35	.07	2	2.45	.01	.04	1	15
785-5-4	3	32	11	31	.1	29	7	388	10.55	12	5	ND	3	4	1	4	2	227	.23	.03	2	106	1.10	30	.12	2	1.30	.02	.03	1	11
785-5-5	5	99	15	65	.1	21	12	309	11.49	11	5	ND	3	4	1	3	2	161	.07	.05	4	33	.66	21	.23	2	1.25	.01	.01	1	5
785-5-6	1	209	11	88	.1	44	23	381	9.91	2	5	ND	5	4	1	3	5	145	.05	.05	7	63	1.35	17	.09	2	2.96	.01	.02	1	1
785-5-7	1	24	7	29	.1	10	4	106	2.36	2	5	ND	3	4	1	2	2	55	.05	.02	4	26	.51	15	.08	2	1.20	.01	.03	4	13
785-5-8	1	18	9	32	.1	12	5	122	2.15	2	5	ND	3	3	1	2	2	57	.04	.01	4	26	.66	17	.13	4	1.26	.01	.03	5	18
785-5-9	1	25	6	43	.3	18	7	156	4.77	2	5	ND	4	6	1	2	3	81	.08	.04	5	24	.56	27	.12	3	1.92	.01	.03	4	6
785-5-10	1	10	9	26	.3	6	3	83	3.39	5	5	ND	6	4	1	2	2	69	.03	.03	7	15	.24	27	.09	6	1.15	.01	.02	4	25
785-5-11	1	1	2	3	.1	1	1	13	.13	2	5	ND	1	3	1	2	2	3	.02	.01	3	3	.01	11	.01	3	.38	.01	.01	1	7
785-5-12	2	61	12	58	.2	22	11	219	9.44	6	5	ND	5	4	1	2	2	151	.05	.03	2	73	.86	26	.21	2	2.27	.01	.01	1	19
STR C/FA-AU	19	58	39	135	7.0	70	28	1133	3.93	40	18	7	40	52	17	15	21	58	.47	.14	38	58	.83	183	.08	40	1.69	.04	.10	12	54

NORTHERN DYNASTY FILE # 05-1375

SAMPLE#	No PPH	Cu PPH	Pb PPH	Zn PPH	Ag PPH	Ni PPH	Co PPH	Mn PPH	Fe %	As PPH	U PPH	Au PPH	Th PPH	Sr PPH	Cd PPH	Sb PPH	Bi PPH	V PPH	Ce %	P %	La PPH	Er PPH	Ag %	Ba PPH	Ti %	B PPH	Al %	Na %	V %	M PPH	Au** PPH
TDS-S-13	2	48	12	70	.5	23	12	282	10.61	6	6	ND	4	4	1	2	2	163	.05	.02	4	45	1.11	27	.24	2	2.12	.01	.02	1	4
TDS-S-14	2	3	7	12	.1	2	1	40	.67	6	5	ND	3	6	1	2	2	23	.05	.01	7	7	.07	19	.08	2	.37	.01	.01	1	3
TDS-S-15	1	16	7	16	.1	20	7	143	1.19	5	5	ND	5	10	1	2	2	22	.23	.09	5	18	.25	20	.09	2	.95	.01	.04	1	1
TDS-S-16	1	21	9	39	.1	22	6	159	2.49	9	5	ND	3	5	1	3	2	39	.04	.03	7	24	.46	21	.05	2	1.11	.01	.03	2	70
EDS-S-5	1	66	9	27	.2	33	16	143	5.63	7	5	ND	4	5	1	2	4	46	.09	.04	7	39	.34	29	.03	5	1.35	.01	.02	7	1506
EDS-S-6	2	3	5	10	.1	3	1	43	.70	5	5	ND	3	8	1	2	2	29	.09	.01	2	15	.10	17	.13	2	.51	.01	.01	1	10
EDS-S-7	6	92	10	69	.3	9	5	172	15.93	14	5	ND	5	5	1	2	2	115	.09	.07	10	22	.31	28	.17	2	2.26	.01	.03	1	42
EDS-S-8	1	29	11	58	.1	21	9	356	7.16	7	5	ND	2	5	1	2	3	119	.09	.03	6	60	.54	40	.09	5	1.41	.01	.03	1	36
EDS-S-9	6	36	12	51	.2	15	7	424	17.29	11	5	ND	5	4	1	2	2	144	.05	.07	11	38	.38	30	.08	2	1.54	.01	.03	3	540
EDS-S-10	11	139	31	54	.4	6	2	221	15.54	61	5	ND	6	8	1	2	2	70	.03	.06	14	77	.55	115	.17	2	1.74	.01	.32	1	66
EDS-S-11	1	42	9	50	.3	22	6	375	6.40	11	5	ND	4	5	1	3	2	68	.06	.03	5	52	.76	31	.15	8	1.37	.01	.07	1	56
EDS-S-12	12	151	18	135	.4	30	22	2186	19.92	12	5	ND	4	5	1	2	2	136	.11	.05	22	56	.96	29	.09	2	2.64	.01	.09	7	34
EDS-S-13	1	51	12	124	.2	63	21	397	8.32	8	5	ND	3	5	1	2	3	212	.09	.02	8	170	2.31	49	.12	6	3.17	.01	.02	1	13
EDS-S-14	1	10	8	30	.1	31	7	52	3.08	4	5	ND	3	8	1	2	2	34	.14	.01	11	45	.33	21	.01	3	1.38	.01	.01	1	330
EDS-S-15	6	237	9	71	.1	48	22	226	9.33	6	5	ND	3	7	1	2	2	144	.15	.03	14	16	1.10	57	.44	5	3.39	.01	.08	5	14
EDS-S-16	3	4	6	4	.1	1	1	16	.27	2	5	ND	1	3	1	2	2	7	.02	.01	2	2	.02	12	.02	2	.41	.01	.02	79	730
EDS-S-17	3	7	3	7	.1	1	1	16	.23	3	5	ND	1	4	1	2	2	4	.04	.02	2	1	.02	35	.01	2	.46	.01	.03	1	70
EDS-S-18	1	33	5	40	.1	13	7	155	4.49	8	5	ND	5	21	1	3	2	81	.09	.02	4	28	.79	27	.40	7	1.53	.01	.04	1	1
DL 0+25M	2	18	5	14	.2	9	3	230	1.14	5	5	ND	3	12	1	2	2	18	.31	.07	8	15	.21	21	.08	2	.53	.01	.02	1	3
DL 0+50M	2	26	5	8	.4	8	2	50	.82	2	8	ND	6	52	1	2	2	5	3.27	.15	18	9	.13	125	.02	2	.81	.01	.01	1	64
DL 0+75M	1	45	9	31	.1	21	8	305	1.82	6	5	ND	7	17	1	2	2	28	.52	.10	26	30	.43	49	.10	2	.96	.01	.06	1	45
DL 1+00M	1	48	9	56	.1	25	13	362	3.01	5	5	ND	10	20	1	2	2	47	.57	.10	26	41	.71	52	.16	6	1.59	.01	.04	1	2
DL 1+25M	2	39	10	11	.1	8	2	266	.89	2	5	ND	3	33	1	2	2	15	1.99	.04	21	14	.15	88	.05	7	.76	.01	.01	1	3
DL 0+50E 1+50M	1	17	9	13	.1	8	3	53	2.09	8	5	ND	6	8	1	2	2	38	.09	.02	6	24	.15	21	.12	2	1.76	.01	.02	1	3
DL 0+50E 1+75M	11	11	10	31	.1	16	4	115	1.50	7	5	ND	1	4	1	4	2	46	.06	.01	2	41	.36	26	.14	2	.74	.01	.05	12	740
DL 0+50E 2+00M	6	56	14	118	.1	8	5	247	11.92	55	5	ND	2	4	1	2	2	47	.05	.06	18	16	.30	22	.04	6	1.18	.01	.01	2	110
DL 0+50E 2+10M	5	173	19	80	.4	28	17	355	8.85	11	5	ND	14	11	1	2	2	69	.17	.07	45	103	1.03	60	.16	9	3.92	.01	.04	1	85
DL 0+50E 2+20M	3	9	7	5	.1	1	1	17	.25	3	5	ND	1	9	1	2	2	6	.12	.01	2	6	.03	19	.03	2	.28	.01	.02	1	1
DL 0+50E 2+30M	3	11	6	8	.1	4	1	31	.32	2	5	ND	2	12	1	2	2	9	.21	.01	4	9	.09	24	.07	2	.35	.01	.02	1	95
DL 0+50E 2+50M	1	13	4	27	.1	6	4	136	1.93	2	5	ND	2	11	1	2	3	26	.34	.10	6	10	.31	28	.11	2	.60	.01	.02	1	1
DL 0+50E 2+60M	2	18	12	14	.1	6	2	35	.64	3	5	ND	1	18	1	2	2	12	.32	.05	7	8	.14	37	.03	2	.42	.01	.02	2	2
DL 0+50E 2+70M	2	6	7	13	.1	3	2	44	.67	2	5	ND	1	4	1	2	2	19	.04	.01	2	9	.22	25	.07	2	.42	.01	.02	2	1
DL 0+50E 2+80M	3	6	10	7	.1	2	1	24	.51	2	5	ND	1	8	1	2	2	22	.07	.01	2	8	.04	18	.17	2	.27	.01	.02	1	2
DL 0+50E 2+90M	1	27	21	35	.1	12	4	116	1.05	6	5	ND	1	15	1	2	3	14	.12	.06	4	22	.28	67	.01	2	.79	.01	.03	1	7
DL 0+50E 3+00M	3	7	10	11	.1	4	1	32	.53	4	5	ND	1	10	1	2	3	14	.10	.02	2	12	.08	27	.07	2	.37	.01	.02	1	2
STB C/FA-AU	19	59	40	135	7.2	69	28	1148	3.93	41	18	7	39	50	17	15	20	57	.47	.15	42	59	.86	183	.08	39	1.68	.05	.10	13	50

NORTHERN DYNASTY FILE # 05-1073

PAGE

SAMPLE#	Pb	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Tl	B	Al	Ka	K	Y	Au11
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
YDS-R-15	19	362	48	222	3.0	67	35	271	23.91	51	5	ND	9	7	1	2	2	9	.15	.07	24	51	.32	51	.08	2	.55	.01	.08	1	48
YDS-R-16	1	18	13	112	.3	48	7	323	4.59	10	5	ND	6	6	1	4	4	53	.13	.09	7	124	1.42	39	.08	2	1.77	.04	.22	1	3
YDS-R-17	25	14	7	41	.3	31	8	461	2.20	5	5	ND	6	26	1	2	2	32	1.05	.04	11	74	.81	43	.08	2	.86	.03	.24	6	105
YDS-R-18	4	14	7	43	.3	48	15	718	3.03	6	5	ND	9	25	1	2	2	26	1.04	.09	17	25	.70	92	.11	2	1.09	.03	.56	1	160
YDS-R-19	24	856	6	14	.8	7	6	248	1.50	9	5	ND	1	6	1	2	2	8	.19	.01	2	6	.09	416	.07	2	.22	.01	.03	1	53
YDS-R-20	2	63	6	2	.5	16	69	50	1.66	8	5	ND	2	5	1	2	2	1	.05	.01	2	3	.01	15	.01	2	.03	.01	.02	1	52
YDS-R-21	3	24	7	5	.4	2	2	54	1.22	5	5	ND	3	3	1	2	20	1	.07	.01	4	1	.01	63	.01	2	.07	.04	.03	27	165
YDS-R-22	2	144	100	157	11.4	9	4	74	1.37	7	5	ND	6	12	1	2	5	3	.23	.06	7	2	.28	75	.01	2	.47	.03	.11	1	55
YDS-R-23	8	17	8	30	.5	10	4	236	1.62	4	5	ND	6	23	1	2	3	6	.65	.05	12	7	.35	41	.01	2	.39	.04	.07	1	10
YDS-R-17	1	22	6	72	.5	31	9	645	2.85	3	5	ND	8	46	1	2	2	15	2.45	.13	19	12	.68	55	.01	2	.60	.07	.05	1	7
605-R-18	1	133	13	111	.4	57	29	362	5.53	4	5	ND	5	53	1	2	2	107	2.86	.04	6	33	.92	57	.09	2	3.53	.37	.16	1	2
605-R-19	1	65	10	63	.3	16	11	410	3.74	2	5	ND	7	11	1	5	2	67	.83	.09	17	13	1.39	49	.09	2	1.67	.07	.17	1	1
605-R-20	2	5	9	16	.3	4	2	46	.63	2	5	ND	6	12	1	2	2	5	.07	.02	5	5	.15	64	.02	2	.31	.05	.09	1	140
605-R-21	1	59	20	39	.1	4	2	487	5.00	6	5	ND	4	15	1	2	4	71	.50	.04	9	22	.89	17	.06	5	1.32	.05	.06	1	2
605-R-22	1	54	12	97	.5	55	24	959	6.02	2	5	ND	11	79	1	4	2	92	2.06	.17	28	224	2.51	54	.01	2	2.03	.03	.02	1	7
605-R-23	1	16	7	24	.2	17	8	521	1.71	2	5	ND	8	53	1	2	2	9	1.65	.08	19	12	.29	43	.01	2	.62	.03	.08	1	24
605-R-24	2	7	6	21	.3	10	4	199	1.06	8	5	ND	5	17	1	2	2	6	.10	.05	9	6	.28	195	.03	2	.46	.03	.14	1	2
605-R-25	1	1319	6	10	.8	126	52	483	6.33	2	8	ND	5	33	1	2	2	60	2.26	.04	3	62	.69	71	.13	3	1.98	.24	.17	1	26
605-R-26	2	8	3	2	.3	2	1	37	.42	2	8	ND	3	4	1	2	2	1	.02	.01	2	3	.01	6	.01	18	.05	.01	.03	1	23
605-R-27	2	2	3	4	.1	1	1	32	.31	2	5	ND	1	6	1	2	2	1	.02	.01	2	4	.01	1	.01	36	.05	.01	.01	1	27
605-R-28	2	6	19	5	3.9	2	1	27	1.13	6	5	16	2	3	1	2	98	2	.01	.01	2	2	.01	3	.01	23	.07	.01	.01	1	6100
605-R-29	2	3	4	2	.3	2	1	52	.52	2	5	ND	3	3	1	2	15	1	.02	.01	2	4	.01	3	.01	5	.04	.01	.02	1	450
605-R-30	2	3	2	3	.1	2	1	54	.43	2	5	ND	2	4	1	2	2	1	.01	.01	2	2	.02	9	.01	17	.09	.02	.02	1	75
605-R-31	1	6	5	10	.1	4	4	159	1.24	4	5	ND	5	13	1	2	2	5	.21	.06	12	3	.29	29	.01	2	.56	.04	.05	1	18
605-R-32	1	8	8	50	.3	23	7	224	1.67	4	5	ND	7	11	1	2	2	10	.17	.07	14	12	.37	29	.02	2	.76	.04	.06	1	4
605-R-33	1	120	2	16	.3	5	2	91	.86	3	5	ND	5	6	1	2	2	4	.04	.01	6	4	.13	18	.01	2	.32	.04	.05	1	3
605-R-34	1	36	8	107	.2	52	18	709	6.49	3	5	ND	10	38	1	2	2	90	.85	.16	22	196	1.87	51	.01	4	1.66	.03	.03	1	8
605-R-35	1	32	10	80	.3	33	7	405	4.40	8	5	ND	9	17	1	3	2	29	.23	.09	19	56	.75	40	.08	6	1.30	.03	.35	1	7
605-R-36	3	157	11	237	.7	22	9	307	7.14	7	5	ND	9	23	1	2	2	15	.65	.08	26	28	.68	26	.04	5	1.04	.01	.13	1	18
605-R-37	17	305	26	116	.4	43	18	1572	21.86	4	5	ND	8	17	1	2	2	40	.33	.06	23	20	1.10	65	.06	2	1.88	.01	.17	14	460
605-R-38	3	21	23	69	.4	14	1	151	8.05	40	5	ND	8	63	1	2	3	24	.03	.15	25	67	.41	46	.05	7	.64	.13	.20	1	44
605-R-39	3	25	18	84	.2	44	4	229	8.36	31	7	ND	11	47	1	4	2	54	.09	.13	23	137	1.15	84	.12	6	1.56	.05	.44	1	29
605-R-40	1	62	7	81	.5	82	17	472	3.59	11	5	ND	9	34	1	4	2	80	.88	.09	20	125	1.66	156	.17	3	1.80	.05	.58	3	27
605-R-41	32	461	76	944	2.1	203	43	423	13.84	127	5	ND	10	14	4	2	2	33	.21	.08	21	206	.86	23	.12	2	1.55	.02	.47	1	20
605-R-42	1	22	7	63	.3	27	9	237	3.63	10	5	ND	7	15	1	2	3	14	.72	.09	16	32	.85	21	.03	2	1.07	.03	.09	1	11
605-R-43	1	32	8	76	.2	10	4	391	8.24	22	5	ND	5	11	1	2	2	15	.46	.09	9	11	.50	47	.02	2	1.21	.01	.04	1	15
STE C/FA-AU	19	59	38	132	7.3	69	27	1114	3.87	40	16	8	38	45	17	15	19	60	.47	.14	41	60	.86	177	.08	46	1.67	.06	.10	12	19

NORTHERN DYNASTY FILE # 85-1373

PAGE 4

SAMPLE#	No	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Mo	K	M	Au11
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM
685-R-44	1	24	5	75	.1	13	5	154	2.73	2	5	ND	3	4	1	2	2	11	.12	.03	2	4	.47	38	.01	5	.96	.01	.08	1	25
EDS-R-11	1	124	5	57	.1	52	24	252	6.51	7	5	ND	3	31	1	3	2	57	1.34	.04	2	16	.43	43	.15	6	1.68	.24	.11	1	10
EDS-R-12	7	150	11	58	.1	5	5	678	19.63	7	5	ND	6	2	1	5	2	15	.04	.06	2	5	.26	9	.01	2	.40	.01	.01	1	58
EDS-R-13	7	34	10	42	.1	20	5	636	17.06	3	5	ND	4	12	1	2	2	58	.19	.08	2	25	.66	60	.07	2	1.27	.01	.25	4	615
EDS-R-14	6	69	12	59	.1	9	4	935	21.96	7	5	ND	6	2	1	2	2	17	.05	.02	2	9	.31	7	.01	2	.55	.01	.01	1	28
EDS-R-15	1	142	12	52	.1	1	6	316	29.94	11	5	ND	7	20	1	2	2	19	.10	.10	2	2	.20	29	.02	10	.32	.01	.02	3	55
EDS-R-16	3	49	3	17	.1	4	6	544	2.91	5	5	ND	1	29	1	2	2	8	.92	.02	2	5	.12	21	.02	7	.30	.01	.03	4	44
EDS-R-17	1	252	7	17	.4	41	14	361	5.68	4	5	ND	1	18	1	3	2	22	2.52	.01	2	23	.24	14	.05	6	.75	.07	.06	1	20
EDS-R-18	1	7	7	14	.1	4	2	72	.98	3	5	ND	4	12	1	2	3	2	.07	.03	4	1	.09	25	.01	8	.76	.04	.06	1	95
EDS-R-19	1	8	6	49	.1	6	3	136	1.09	4	5	ND	3	11	1	2	4	5	.09	.04	4	2	.20	33	.01	4	.55	.03	.07	1	45
EDS-R-20	2	21	2	27	.2	6	3	57	.92	2	5	ND	3	10	1	2	2	4	.08	.03	3	1	.24	23	.01	9	.42	.04	.05	1	15
EDS-R-21	1	22	10	26	3.9	15	12	360	2.71	4	6	ND	10	53	1	2	3	3	.53	.06	24	9	.24	24	.01	11	.17	.05	.02	1	65
EDS-R-22	1	47	5	54	.1	24	10	588	2.70	5	5	ND	9	123	1	3	2	30	1.61	.09	29	72	1.10	119	.05	7	.65	.05	.12	1	40
EDS-R-23	3	15	5	13	.3	2	1	82	.89	4	6	ND	3	6	1	2	2	4	.08	.02	3	1	.09	28	.03	8	.22	.04	.11	79	760
EDS-R-24	3	19	2	21	.2	4	3	82	1.17	4	5	ND	5	7	1	2	2	6	.09	.03	3	1	.14	54	.05	9	.37	.05	.21	23	935
EDS-R-25	4	14	6	8	2.7	2	1	41	.81	3	7	3	2	4	1	2	8	3	.02	.01	2	1	.05	20	.03	11	.17	.05	.08	11	4300
TMS-R-10	1	22	2	4	.1	5	3	74	.76	2	5	ND	1	2	1	2	4	7	.01	.01	2	4	.04	3	.01	23	.08	.01	.01	1	415
TMS-R-11	1	199	9	66	.2	40	34	362	9.42	8	5	ND	3	30	1	4	2	81	.48	.06	4	33	.81	17	.20	2	.91	.07	.02	1	45
TMS-R-12	1	6	3	4	.1	5	1	43	.49	5	5	ND	2	7	1	2	2	1	.01	.01	4	4	.01	22	.01	30	.07	.02	.02	1	28
TMS-R-13	1	29	8	23	.1	14	6	406	2.02	5	5	ND	7	20	1	2	3	14	.40	.05	17	27	.40	21	.02	14	.41	.03	.04	34	10
STD C/FA AD	19	61	39	141	7.2	74	29	1204	4.08	41	16	7	43	54	18	15	21	60	.48	.16	38	63	.88	184	.07	39	1.72	.06	.12	11	50

LEITH'S TECH

## BIOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3:1:2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, Ni, Ba, TI, B, AL, NA, K, W, SI, ZR, CE, Sr, Y, MO AND TA. NO DETECTION LIMIT BY ICP IS 3 PPM.  
\* SAMPLE TYPE: P1-18 SOILS - 80 MESH PIT-ROCKS AU: ANALYSIS BY FAXAN FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 14 1985 DATE REPORT MAILED: Aug 21/85 ASSAYER: V. Saundry, DEAN TOYE OR TOM SAUNDRY, CERTIFIED B.C.C. ASSAYER

NORTHERN DYNASTY FILE # 815-1074

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SAMPLE	NO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TA	SR	CD	SB	BI	V	CR	P	LA	ER	HG	Ba	TI	B	AL	Na	K	W	SI	ZR	CE	SR	Y	MO	TA		
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM		
DL 0+0OE 3+00M	1	10	7	18	.1	14	3	549	.93	8	7	ND	8	73	1	5	2	9	2.99	.09	74	16	.11	96	.01	4	.70	.01	.02	1	8								
DL 0+0OE 8+00M	1	19	12	12	.2	9	2	212	.56	7	5	ND	6	62	1	2	2	5	2.50	.09	42	5	.07	69	.01	8	.58	.01	.01	1	1								
DL 0+0OE 8+60M	1	8	5	17	.5	3	1	35	.22	2	5	ND	3	34	1	2	2	1	1.35	.05	5	3	.05	31	.01	2	.14	.01	.01	1	4								
DL 0+0OE 8+10M	1	3	7	11	.1	1	1	25	.11	3	5	ND	1	16	1	2	2	1	.56	.02	2	3	.03	18	.01	7	.10	.01	.02	1	1								
DL 0+0OE 8+20M	1	11	5	16	.3	15	5	76	1.82	2	5	ND	4	6	1	1	6	27	.13	.06	8	23	.21	25	.07	7	1.62	.01	.07	2									
DL 0+0OE 8+00M	1	10	9	20	.2	10	3	56	2.22	8	5	ND	3	4	1	2	4	32	.05	.04	6	25	.14	26	.08	2	1.94	.01	.03	1									
DL 0+0OE 8+00M	1	9	17	37	.1	10	3	111	3.32	2	5	ND	1	6	1	1	4	77	.06	.08	3	28	.11	32	.20	3	1.01	.01	.05	2	1								
DL 0+0OE 8+00M	1	9	30	33	.1	5	1	93	.58	2	5	ND	1	15	1	2	2	10	.18	.04	2	20	.04	90	.01	3	.25	.02	.04	1	1								
DL 0+0OE 8+60M	1	8	18	38	.1	10	2	105	3.03	15	5	ND	3	6	1	2	6	51	.06	.05	7	25	.36	27	.15	2	1.09	.01	.05	1	8								
DL 0+0OE 8+60M	2	14	13	39	.1	7	34	4719	.76	7	5	ND	5	47	1	2	2	13	2.96	.09	22	7	.13	113	.01	9	.35	.01	.02	1	4								
DL 0+0OE 8+20M	1	18	16	32	.1	7	35	9926	3.72	2	5	ND	6	65	1	2	2	29	2.14	.12	37	5	.07	171	.01	6	.41	.01	.02	1	10								
DL 0+0OE 8+00M	1	5	13	32	.1	8	2	140	2.02	2	5	ND	5	4	1	2	3	34	.07	.04	4	23	.15	26	.08	2	1.29	.01	.04	1	1								
DL 0+0OE 8+00M	1	17	19	15	.3	3	1	1084	.16	5	5	ND	5	57	1	2	2	9	5.49	.07	2	2	.20	51	.01	13	.14	.01	.01	1	1								
DL 0+0OE 8+00M	8	13	15	46	.1	5	11	3098	16.23	26	5	ND	8	53	1	2	2	98	2.60	.27	46	13	.09	139	.01	2	.89	.01	.01	3	1								
DL 0+0OE 8+00M	1	4	5	18	.1	8	2	91	2.46	5	5	ND	2	4	1	2	2	52	.07	.03	4	18	.18	16	.13	2	.91	.01	.02	1	1								330
DL 0+0OE 8+20M	1	8	8	16	.1	7	3	151	.46	6	5	ND	4	39	1	2	2	5	1.85	.05	16	10	.19	95	.02	2	.45	.01	.02	1	1								
DL 0+0OE 8+00M	1	4	5	11	.1	2	1	115	.08	2	5	ND	1	28	1	2	2	3	2.79	.04	2	1	.19	33	.01	6	.09	.01	.01	1	16								
DL 0+0OE 8+00M	1	3	7	13	.1	3	1	102	.13	2	5	ND	1	23	1	2	2	2	2.06	.06	2	2	.15	18	.01	7	.08	.01	.01	1	4								
DL 0+0OE 8+00M	1	4	4	28	.1	6	1	93	2.24	2	5	ND	1	6	1	2	2	46	.06	.04	2	18	.16	28	.11	2	1.71	.01	.01	1	1								
DL 0+0OE 8+00M	1	5	2	18	.1	6	1	143	2.10	3	5	ND	1	3	1	2	2	47	.06	.09	2	13	.11	25	.11	2	.61	.01	.02	1	14								
DL 0+0OE 8+60M	1	4	14	24	.1	4	1	165	2.68	4	5	ND	2	5	1	2	2	61	.05	.16	4	17	.14	39	.11	3	1.01	.01	.04	1	11								
DL 0+0OE 8+00M	1	8	11	37	.1	11	2	232	3.46	5	5	ND	7	6	1	2	4	51	.06	.12	2	31	.17	52	.11	2	1.82	.01	.03	1	4								
DL 0+0OE 8+20M	1	6	7	11	.2	8	2	58	1.28	5	7	ND	6	4	1	2	2	20	.09	.07	6	17	.13	12	.06	2	.68	.01	.04	1	2								
DL 0+0OE 8+10M	1	16	5	24	.1	12	4	172	2.00	4	5	ND	6	6	1	2	4	32	.11	.06	6	17	.20	37	.09	2	1.19	.01	.05	1	14								
DL 0+0OE 8+00M	1	7	2	9	.1	10	4	55	1.15	2	5	ND	5	9	1	2	2	15	.20	.07	10	18	.13	23	.05	2	1.04	.01	.03	1	1								
DL 0+0OE 1+00M	1	26	9	19	.1	13	6	154	2.17	4	5	ND	1	6	1	2	6	74	.13	.01	2	33	.53	34	.04	2	.80	.01	.03	2	4								
DL 0+0OE 1+40M	1	13	10	9	.1	6	2	49	1.01	9	5	ND	1	8	1	2	2	53	.04	.01	2	20	.22	25	.17	2	.42	.01	.05	3	2								
DL 0+0OE 1+00M	1	5	7	21	.1	14	5	141	1.61	2	5	ND	1	3	1	2	4	52	.07	.02	2	48	.48	18	.16	2	.80	.01	.03	2	1								
DL 0+0OE 1+20M	1	9	5	12	.2	4	2	59	.95	8	5	ND	2	4	1	2	2	44	.06	.01	2	13	.16	26	.15	2	.58	.01	.03	1	1								
DL 0+0OE 1+10M	1	12	12	17	.1	9	2	93	2.66	7	5	ND	5	4	1	2	5	140	.07	.02	2	43	.27	30	.39	2	.62	.01	.04	1	17								
DL 0+0OE 1+00M	1	10	11	17	.1	6	2	81	1.41	4	5	ND	2	4	1	3	2	40	.05	.01	3	15	.24	20	.12	2	.71	.01	.04	1	14								
DL 0+0OE 0+90M	1	8	10	5	.1	3	1	24	1.52	2	5	ND	4	4	1	4	2	24	.03	.01	4	8	.05	23	.06	2	.72	.01	.03	1	3								
DL 0+0OE 0+80M	1	8	8	9	.1	10	2	36	2.03	3	5	ND	4	5	1	2	2	34	.04	.03	5	21	.10	29	.08	2	1.95	.01	.01	1	4								
DL 0+0OE 0+70M	1	10	14	15	.1	13	3	80	2.97	2	5	ND	5	6	1	2	3	35	.09	.08	7	35	.19	25	.11	2	2.51	.01	.01	1	6								
DL 0+0OE 0+60M	1	10	15	20	.1	12	3	84	3.07	3	5	ND	7	5	1	2	2	52	.08	.16	8	25	.23	18	.15	4	1.54	.01	.04	2	2								
DL 0+0OE 0+50M	1	9	5	22	.1	11	3	82	2.66	5	5	ND	6	5	1	2	2	50	.06	.03	3	30	.26	17	.11	2	1.12	.01	.04	1	12								
SFB C/F/A AU	21	59	37	138	6.9	72	28	1269	4.00	38	16	7	37	52	16	16	21	61	.48	.14	37	59	.88	178	.06	40	1.72	.07	.12	12	50								

NORTHERN DYNASTY FILE N 85-1874

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Mn	Co	Ni	Fe	As	U	Au	Hg	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	K	Al	Na	K	M	MO
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
DL 0+00E 0+10M	1	27	9	22	.3	18	6	217	1.86	3	5	ND	5	16	1	2	2	31	.57	.07	24	29	.34	75	.08	2	1.18	.01	.01	2	1
DL 0+00E 0+30M	1	12	6	9	.2	4	2	87	.53	3	5	ND	1	45	1	2	2	4	2.76	.06	11	4	.08	75	.01	2	.42	.01	.04	1	13
DL 0+00E 0+20M	1	26	6	21	.1	4	1	446	.52	2	5	ND	1	86	1	2	2	4	6.66	.11	28	11	.18	229	.01	6	.60	.01	.01	1	2
DL 0+00E 0+10M	1	62	2	39	.1	22	10	1373	1.65	2	5	ND	1	61	1	2	2	28	4.61	.11	22	43	.54	238	.02	6	1.02	.01	.03	1	3
DL 0+00E 0+00M	1	59	9	38	.1	17	11	1938	1.59	2	5	ND	1	73	1	2	2	20	5.51	.08	29	18	.43	280	.02	7	.91	.01	.01	1	2
DL 0+00E 0+10S	1	34	19	45	.1	8	2	1560	.33	6	5	ND	1	85	1	2	2	5	6.73	.09	16	9	.20	259	.01	9	.37	.01	.02	1	7
DL 0+00E 0+20S	1	127	6	26	.1	13	7	396	1.07	2	5	ND	2	69	1	2	2	16	5.13	.07	36	16	.19	232	.01	2	.67	.01	.02	2	4
DL 0+00E 0+30S	1	4	10	11	.1	3	2	43	1.45	7	5	ND	1	3	1	2	2	53	.06	.01	2	5	.09	27	.03	2	.23	.01	.03	1	21
DL 0+00E 0+40S	1	4	9	12	.1	1	1	42	1.25	4	5	ND	1	3	1	2	2	43	.05	.01	2	5	.11	27	.04	2	.33	.01	.01	1	12
DL 0+00E 0+50S	1	11	6	13	.3	8	2	55	2.76	2	5	ND	1	4	1	2	2	50	.05	.02	2	18	.14	18	.14	2	.72	.01	.02	1	8
DL 0+00E 0+60S	1	6	9	11	.1	9	2	44	2.03	2	5	ND	1	5	1	2	2	28	.12	.05	7	23	.14	26	.06	2	1.50	.01	.01	1	4
DL 0+00E 0+70S	1	7	6	13	.2	8	2	55	1.72	2	5	ND	2	4	1	2	2	39	.09	.04	4	14	.16	18	.09	2	.71	.01	.01	1	1
DL 0+00E 0+80S	1	4	12	14	.1	1	1	57	1.24	3	5	ND	1	3	1	2	2	37	.03	.01	3	5	.09	31	.13	2	.44	.01	.03	1	1
DL 0+00E 0+90S	1	8	7	12	.1	5	2	54	1.21	6	5	ND	1	6	1	2	2	22	.11	.04	6	12	.18	21	.07	2	.59	.01	.01	1	1
DL 0+00E 1+00S	1	3	6	4	.1	3	1	12	1.02	2	5	ND	1	4	1	2	2	20	.03	.01	4	5	.03	14	.05	2	.51	.01	.01	1	2
DL 1+00E 0+00M	1	19	2	26	.7	18	5	120	3.32	6	5	ND	3	5	1	2	5	129	.07	.02	2	98	.61	42	.24	2	.89	.01	.01	1	4
DL 1+00E 0+00M	1	20	27	31	.4	7	2	136	.45	4	5	ND	3	19	1	2	2	6	.27	.12	6	7	.06	115	.01	2	.36	.03	.06	1	6
DL 1+00E 0+70M	1	27	2	16	.1	10	2	59	1.82	2	5	ND	1	5	1	2	5	34	.12	.01	7	18	.21	20	.10	2	1.03	.01	.01	1	2
DL 1+00E 0+60M	1	51	3	15	.3	35	9	240	3.15	4	5	ND	5	27	1	4	2	47	2.16	.05	25	37	.14	72	.09	2	3.20	.01	.02	2	2
DL 1+00E 0+50M	1	19	2	20	.1	12	4	85	2.93	3	5	ND	5	7	1	2	5	41	.14	.03	13	30	.27	29	.11	2	1.75	.01	.01	2	2
DL 1+00E 0+30M	5	7	13	49	.2	7	15	16223	1.75	7	5	ND	1	80	1	2	2	16	5.89	.14	11	7	.18	914	.01	13	.51	.01	.03	2	30
DL 1+00E 0+20M	1	17	12	57	.1	2	1	105	.59	7	5	ND	1	33	1	2	2	4	1.12	.06	2	7	.05	221	.02	2	.31	.01	.01	1	1
DL 1+00E 0+10M	1	2	5	5	.1	1	1	6	.20	2	5	ND	1	3	1	2	2	13	.03	.01	3	9	.01	11	.08	2	.15	.01	.01	1	2
DL 1+00E 0+00M	2	21	17	26	.1	5	9	6631	.80	4	5	ND	1	59	1	2	2	7	4.43	.10	3	2	.14	284	.01	12	.19	.01	.01	1	7
DL 2+00E 6+20M	1	19	6	34	.1	12	5	169	3.20	2	5	ND	1	4	1	2	2	91	.08	.03	3	30	.46	19	.16	3	1.38	.01	.01	3	6
DL 2+00E 6+00M	1	2	4	13	.1	3	1	28	1.14	2	5	ND	1	4	1	2	8	30	.04	.02	5	11	.07	11	.09	2	.85	.01	.01	1	1
DL 2+00E 5+80M	1	24	9	20	.2	12	5	68	2.40	8	5	ND	2	5	1	2	2	39	.08	.03	6	18	.25	30	.11	2	1.59	.01	.05	1	1
DL 2+00E 5+60M	1	19	4	18	.1	15	5	72	1.28	6	8	ND	3	6	1	2	6	24	.17	.02	10	14	.26	24	.07	2	.81	.01	.03	1	11
DL 2+00E 5+50M	1	25	6	33	.1	26	7	99	2.78	2	5	ND	4	6	1	2	2	35	.12	.04	6	32	.33	34	.10	2	1.26	.01	.01	3	25
DL 2+00E 5+40M	1	10	2	36	.1	10	3	97	1.23	2	5	ND	2	6	1	2	3	24	.08	.02	5	20	.51	30	.11	2	.86	.01	.13	1	5
DL 2+00E 5+30M	1	4	5	27	.1	22	3	86	1.56	2	5	ND	1	2	1	6	2	50	.02	.01	2	50	.50	15	.16	2	.86	.01	.01	2	20
DL 2+00E 5+20M	1	16	7	21	.4	6	1	34	.73	2	5	ND	1	3	1	2	2	16	.03	.02	5	16	.18	38	.03	2	.57	.01	.03	1	12
DL 2+00E 5+10M	1	6	5	19	.1	7	1	31	1.34	2	5	ND	5	4	1	2	2	39	.04	.01	5	30	.16	21	.13	2	.63	.01	.01	1	18
DL 2+00E 5+00M	1	6	3	20	.1	12	2	47	1.55	2	5	ND	4	5	1	7	3	27	.07	.03	5	27	.21	18	.07	2	1.10	.01	.01	1	6
DL 2+00E 4+90M	2	14	5	38	.1	22	4	88	3.52	7	5	ND	1	6	1	9	6	58	.04	.03	6	57	.41	36	.17	2	1.68	.01	.03	3	5
DL 2+00E 4+80M	1	2	5	13	.1	2	1	30	.71	2	5	ND	1	4	1	2	2	28	.03	.01	4	12	.12	17	.14	2	.34	.01	.02	1	7
STD CIFA AU	20	55	41	135	6.9	72	28	1109	3.96	41	15	6	38	53	16	15	21	62	.48	.14	37	57	.88	160	.08	38	1.72	.07	.16	11	48

SAMPLE#	No	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Mu	Ta	Sr	Cd	Sb	Bi	V	Ca	F	La	Cr	Hg	Ba	Li	B	Al	Mo	K	V	Mu++
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	1	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	1	2	PPH	PPH	1	PPH	1	1	1	1	1	PPH	PPH
DL 2+00E 4+70M	1	12	15	45	.1	22	3	135	3.54	6	5	ND	5	7	1	2	2	66	.08	.03	7	16	.52	31	.16	7	1.81	.01	.04	1	11
DL 2+00E 4+80M	1	4	13	24	.1	3	1	45	2.14	2	5	ND	5	7	1	2	2	58	.06	.02	7	15	.10	18	.16	3	1.64	.01	.03	1	32
DL 2+00E 4+50M	1	13	16	83	.1	208	16	301	5.23	4	6	ND	11	18	1	2	2	120	.16	.04	21	366	5.03	118	.42	2	4.47	.01	.56	1	3
DL 2+00E 4+40M	2	3	9	24	.1	11	2	42	.70	3	5	ND	5	4	1	5	2	11	.03	.01	6	11	.17	21	.01	2	.79	.01	.03	1	70
DL 2+00E 4+20M	2	8	9	25	.1	3	2	91	.26	2	5	ND	1	32	1	5	2	3	.66	.04	9	2	.05	74	.01	2	.32	.01	.01	1	6
DL 2+00E 4+00M	1	16	11	22	.1	13	3	101	2.08	4	5	ND	4	10	1	7	2	37	.15	.03	13	21	.30	25	.12	4	1.41	.01	.03	1	9
DL 2+00E 3+80M	1	18	11	24	.1	8	1	90	4.17	2	5	ND	4	7	1	2	2	95	.10	.03	5	27	.26	25	.26	6	1.32	.01	.04	1	4
DL 2+00E 3+70M	1	2	11	5	.1	1	1	24	.56	2	5	ND	4	6	1	2	2	20	.04	.01	5	6	.04	10	.09	2	.32	.01	.02	1	7
DL 2+00E 3+60M	1	14	11	21	.1	7	1	75	2.44	5	5	ND	4	8	1	4	2	51	.07	.02	6	18	.20	21	.15	3	.89	.01	.05	1	10
DL 2+00E 3+50M	1	11	7	24	.1	12	2	81	1.45	4	5	ND	5	10	1	2	2	26	.17	.03	11	16	.24	20	.10	2	1.11	.01	.04	1	2
DL 2+00E 3+40M	1	4	7	8	.1	1	1	13	.17	2	5	ND	4	6	1	2	2	9	.03	.01	7	3	.02	13	.06	2	.35	.01	.02	1	1
DL 2+00E 3+30M	1	5	10	7	.1	3	1	27	1.15	2	5	ND	4	6	1	2	2	27	.05	.01	7	13	.07	14	.08	2	.91	.01	.03	1	3
DL 2+00E 3+20M	1	14	12	21	.2	11	3	97	2.46	3	6	ND	8	8	1	2	2	36	.13	.05	10	22	.29	23	.11	3	1.55	.01	.03	1	2
DL 2+00E 3+10M	1	10	31	74	.1	5	1	68	.51	4	5	ND	1	26	1	2	2	7	.27	.09	5	4	.07	91	.01	5	.50	.01	.07	1	14
DL 2+00E 3+00M	1	2	9	16	.1	2	1	32	.56	2	5	ND	4	9	1	2	2	16	.04	.01	7	8	.06	15	.09	2	.28	.01	.02	1	6
DL 2+00E 2+90M	1	10	19	44	.1	5	1	29	.55	3	5	ND	1	18	1	4	2	6	.12	.06	5	3	.05	76	.01	2	.51	.01	.04	1	13
DL 2+00E 2+80M	1	5	13	18	.1	4	1	56	2.62	3	5	ND	6	7	1	5	2	54	.07	.03	7	16	.14	16	.19	3	1.18	.01	.02	1	11
DL 2+00E 2+70M	1	14	10	36	.1	17	2	148	3.26	2	5	ND	6	13	1	2	2	70	.13	.05	8	58	.69	28	.24	2	1.42	.01	.06	1	4
DL 2+00E 2+60M	1	4	12	12	.1	3	1	43	1.70	4	5	ND	4	8	1	5	2	43	.06	.01	6	13	.10	17	.14	2	.86	.01	.03	1	2
DL 2+00E 2+50M	2	16	14	41	.1	21	3	168	4.45	8	5	ND	6	12	1	2	2	78	.14	.03	7	46	.54	29	.27	7	1.50	.01	.06	2	3
DL 2+00E 2+10M	1	5	8	14	.1	13	2	24	.75	3	5	ND	7	5	1	2	2	12	.05	.02	6	11	.25	22	.01	2	.86	.01	.02	1	35
DL 2+00E 2+00M	2	22	17	37	.1	35	6	73	4.27	7	5	ND	5	9	1	2	2	54	.10	.01	9	29	.48	22	.03	2	2.07	.01	.02	2	4
DL 2+00E 1+90M	1	10	9	35	.1	34	5	88	2.25	4	5	ND	3	7	1	2	2	37	.06	.01	5	56	.72	41	.01	2	1.45	.01	.03	1	21
DL 2+00E 1+80M	1	5	7	10	.1	4	1	36	.90	4	5	ND	2	10	1	3	7	23	.10	.01	11	15	.16	23	.03	2	.76	.01	.02	1	13
DL 2+00E 1+70M	1	37	18	47	.1	29	16	140	4.27	8	5	ND	2	4	1	2	2	132	.05	.04	3	29	.38	36	.02	2	1.81	.01	.03	1	22
DL 2+00E 1+60M	1	39	14	47	.1	20	12	214	8.71	2	5	ND	3	4	1	2	2	266	.11	.02	2	46	.71	39	.03	2	2.35	.01	.03	1	41
DL 2+00E 1+50M	1	6	8	21	.1	7	3	110	1.44	3	5	ND	3	10	1	2	2	43	.27	.01	10	15	.30	29	.05	2	1.06	.01	.02	1	25
DL 2+00E 1+40M	1	21	7	25	.1	16	5	163	3.59	2	5	ND	1	4	1	2	2	111	.07	.01	3	25	.71	20	.12	2	1.14	.01	.02	1	21
DL 2+00E 1+30M	1	22	9	24	.1	29	5	112	1.38	5	5	ND	1	6	1	2	2	21	.08	.03	6	12	.63	24	.04	2	1.04	.01	.02	2	14
DL 2+00E 1+20M	1	15	11	36	.1	20	7	345	4.45	3	5	ND	2	10	1	2	2	136	.14	.01	2	45	1.26	17	.30	2	1.74	.01	.02	1	37
DL 2+00E 1+10M	1	6	7	29	.2	10	3	154	2.38	2	5	ND	2	5	1	2	2	92	.04	.01	5	25	.43	16	.09	2	.81	.01	.01	1	16
DL 2+00E 1+00M	1	7	2	21	.1	7	2	64	.92	2	5	ND	1	3	1	2	2	15	.03	.01	4	10	.37	23	.02	2	.79	.01	.02	1	26
DL 2+00E 0+90M	2	7	7	16	.1	4	1	50	1.61	3	5	ND	3	8	1	2	2	74	.06	.01	7	17	.14	13	.15	2	.72	.01	.03	1	6
DL 2+00E 0+80M	1	35	18	18	.3	8	47	2110	2.84	5	5	ND	3	55	1	2	2	37	3.88	.14	40	17	.25	146	.02	5	1.32	.01	.03	1	6
DL 2+00E 0+60M	2	13	3	8	.2	4	1	69	.22	2	5	ND	1	54	1	2	3	9	5.72	.06	4	1	.21	71	.01	10	.19	.01	.02	1	2
DL 2+00E 0+40M	2	14	2	14	.3	5	1	280	.19	2	5	ND	1	54	1	2	5	5	5.53	.05	4	1	.18	78	.01	9	.16	.01	.03	2	6
STB C/FB-AU	19	59	40	129	7.1	69	25	1105	3.98	39	17	B	34	47	16	15	22	53	.43	.12	36	51	.97	175	.07	37	1.70	.06	.11	12	53



NORTHERN DYNASTY FILE # 05-1874

PAGE

SAMPLE#	Pb	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fo	As	U	Au	Tl	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Mo	K	M	Ag11
	PPH	PPH	P/M	PPH	PPH	PPH	PPH	PPH	1	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	1	1	PPH	PPH	1	PPH	1	PPH	1	1	1	PPH	PPH
DL 2+00E 0+20M	2	13	4	12	.4	5	1	143	.21	2	5	ND	1	76	1	2	2	5	6.91	.07	2	3	.21	100	.01	15	.17	.01	.01	1	1
DL 2+00E 0+00M	2	15	7	21	.1	6	2	420	.51	3	5	ND	1	71	1	2	2	4	6.35	.10	2	4	.21	113	.01	13	.19	.01	.01	1	4
DL 3+00E 1+65M	1	6	9	16	.1	6	1	29	.35	2	5	ND	2	10	1	2	2	9	.14	.03	13	17	.11	36	.01	4	.85	.01	.01	3	105
DL 3+00E 1+60M	1	4	6	12	.1	5	1	28	.47	4	5	ND	1	6	1	2	2	13	.05	.03	17	25	.10	26	.01	4	.72	.01	.01	1	65
DL 3+00E 1+55M	2	31	80	50	.1	20	4	111	1.21	7	5	ND	2	31	1	2	2	11	.27	.17	12	14	.12	109	.01	8	.82	.01	.05	1	14
DL 3+00E 1+50M	1	5	12	37	.3	53	10	85	1.90	7	5	ND	3	6	1	3	2	34	.04	.02	27	91	.83	41	.01	3	1.48	.01	.01	1	40
DL 3+00E 1+40M	2	14	13	62	.1	58	8	258	4.29	2	5	ND	4	15	1	5	2	42	.24	.02	12	21	.98	60	.01	4	2.01	.01	.04	1	56
DL 3+00E 1+35M	2	15	23	35	.2	16	3	52	1.20	7	8	ND	2	10	1	3	2	17	.09	.06	9	15	.24	39	.01	4	.80	.01	.03	1	24
DL 3+00E 1+30M	2	9	8	34	.1	21	5	79	2.04	2	5	ND	5	5	1	2	2	40	.04	.01	11	27	.44	27	.01	2	1.26	.01	.02	1	46
DL 3+00E 1+20MA	1	10	28	41	.1	6	1	42	1.12	8	5	ND	1	27	1	2	2	11	.17	.14	13	7	.04	71	.01	5	.62	.01	.05	1	36
DL 3+00E 1+20MB	1	3	5	9	.1	2	1	10	1.39	2	5	ND	1	5	1	2	2	17	.02	.03	7	6	.03	19	.01	2	.54	.01	.03	1	240
DL 3+00E 1+10M	2	7	7	52	.1	13	5	170	2.68	3	5	ND	1	3	1	4	2	64	.02	.01	6	13	.45	20	.02	2	1.14	.01	.01	1	18
DL 3+00E 1+00M	1	37	18	30	.2	11	4	91	3.12	3	5	ND	2	4	1	5	2	85	.05	.03	5	23	.31	43	.02	2	1.63	.01	.01	1	46
DL 3+00E 0+90M	1	34	17	72	.4	26	15	370	10.19	7	5	ND	1	3	1	2	2	268	.03	.03	2	35	.74	19	.03	2	2.08	.01	.01	1	20
DL 3+00E 0+80M	1	21	7	80	.1	39	17	444	6.79	2	5	ND	1	4	1	2	2	170	.07	.03	2	60	1.10	36	.01	2	2.13	.01	.01	1	25
DL 3+00E 0+70M	1	6	4	13	.1	5	1	53	1.11	2	5	ND	4	6	1	2	2	28	.09	.02	7	13	.14	15	.08	2	.64	.01	.01	1	7
DL 3+00E 0+60M	1	8	2	10	.1	4	1	40	1.12	2	5	ND	5	6	1	2	2	23	.12	.03	9	13	.11	14	.07	2	1.02	.01	.01	1	5
DL 3+00E 0+50M	1	6	5	17	.2	2	1	74	1.12	4	5	ND	1	4	1	2	2	33	.05	.02	6	7	.21	14	.04	2	.59	.01	.02	1	10
DL 3+00E 0+40M	1	1	4	5	.1	1	1	15	.26	3	5	ND	2	6	1	2	2	9	.05	.01	7	3	.02	15	.04	2	.21	.01	.02	1	15
DL 3+00E 0+30M	1	3	4	11	.1	3	1	34	.98	5	5	ND	2	5	1	2	2	31	.05	.01	5	10	.07	11	.11	4	.28	.01	.02	1	44
DL 3+00E 0+20M	1	10	4	17	.1	11	2	72	1.63	2	5	ND	4	9	1	2	4	28	.18	.05	10	16	.20	29	.10	5	.97	.01	.03	1	12
DL 3+00E 0+00M	1	17	2	16	.2	3	1	582	.23	5	5	ND	7	44	1	2	2	6	6.66	.08	6	2	.23	84	.01	17	.22	.01	.02	1	8
DL 4+00E 3+60M	1	16	2	13	.1	1	1	19	.37	6	6	ND	1	7	1	2	5	9	.06	.01	7	6	.05	29	.03	3	.45	.01	.03	1	9
DL 4+00E 3+40M	1	7	7	26	.1	8	1	85	1.33	4	5	ND	1	8	1	2	10	54	.13	.01	6	16	.30	15	.15	4	.67	.01	.04	1	5
DL 4+00E 3+20M	2	11	25	64	.2	4	1	109	.49	5	5	ND	2	26	1	2	9	5	.47	.09	8	6	.07	62	.01	7	.43	.01	.04	1	4
DL 4+00E 5+10M	1	11	27	62	.1	6	1	47	.56	5	5	ND	1	28	1	2	2	7	.30	.09	2	7	.10	99	.01	7	.47	.01	.04	1	1
DL 4+00E 5+00M	1	65	2	13	.6	12	3	252	.93	4	5	ND	6	123	1	2	2	4	3.20	.17	93	10	.10	137	.01	13	.87	.01	.02	1	4
DL 4+00E 4+80M	1	3	6	7	.1	1	1	20	.33	5	5	ND	2	8	1	2	2	15	.09	.01	8	7	.03	14	.10	5	.24	.01	.01	1	10
DL 4+00E 4+60M	1	5	3	5	.1	1	1	20	.39	2	5	ND	4	8	1	2	2	12	.05	.01	8	8	.05	22	.08	4	.41	.01	.01	1	12
DL 4+00E 4+40M	1	3	4	9	.1	3	1	37	.50	2	5	ND	2	5	1	2	2	19	.06	.01	6	10	.10	10	.13	4	.37	.01	.01	1	20
DL 4+00E 4+20M	1	5	8	14	.1	4	1	54	.76	2	5	ND	3	5	1	2	2	25	.05	.01	4	16	.15	20	.12	5	.44	.01	.04	1	7
DL 4+00E 4+00M	1	13	2	45	.3	7	1	778	.25	2	5	ND	4	83	1	2	2	11	5.55	.10	2	4	.30	106	.01	20	.59	.01	.02	1	4
DL 4+00E 3+80M	2	9	2	35	.5	2	3	1097	.23	5	5	ND	4	66	1	2	2	6	3.97	.10	3	4	.23	86	.01	17	.32	.01	.01	1	1
DL 4+00E 3+60M	3	16	2	21	.1	8	7	1540	.76	2	5	ND	4	91	1	2	2	7	4.24	.11	13	6	.18	89	.01	17	.31	.01	.02	1	1
DL 4+00E 3+40M	1	31	7	35	.3	8	5	496	.70	2	5	ND	5	61	1	2	2	19	2.35	.18	37	19	.10	108	.02	12	.76	.01	.02	1	4
DL 4+00E 3+20M	1	6	3	9	.1	1	1	32	.42	2	5	ND	3	8	1	2	2	13	.11	.02	7	8	.05	21	.07	8	.43	.01	.04	1	14
STD C/PK-AU	22	59	40	138	7.3	69	27	1264	4.00	39	17	8	39	52	16	15	19	58	.46	.14	37	60	.88	180	.08	37	1.71	.05	.11	12	56

SAMPLE#	Pb	Cu	Pb	Zn	Ag	Mn	Co	Ni	Fe	As	U	Au	Tl	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Mg	K	U	Mu
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
DL 4+00E 3+10N	2	2	2	4	.1	1	1	21	.68	3	5	ND	1	4	1	2	2	21	.02	.01	4	17	.02	11	.07	2	.21	.01	.01	1	4
DL 4+00E 3+00N	2	1	3	3	.1	1	1	15	.30	2	5	ND	1	4	1	2	2	11	.02	.01	7	7	.02	10	.06	2	.25	.01	.01	1	2
DL 4+00E 2+90N	2	2	3	10	.1	2	1	25	.39	3	5	ND	1	4	1	3	2	11	.03	.01	4	7	.04	15	.03	2	.42	.01	.01	1	9
DL 4+00E 2+85N	1	2	10	18	.2	7	1	74	2.29	3	5	ND	5	7	1	2	2	42	.07	.02	9	19	.18	23	.15	5	1.01	.01	.02	1	6
DL 4+00E 2+70N	1	9	9	21	.1	7	2	72	3.25	5	5	ND	2	5	1	2	2	67	.05	.04	5	21	.18	27	.20	3	1.15	.01	.02	1	20
DL 4+00E 2+60N	2	17	4	47	.5	8	3	44	.70	4	5	ND	4	109	1	2	2	9	4.66	.08	10	8	.09	185	.02	6	.81	.01	.03	2	10
DL 4+00E 2+50N	2	12	13	46	.1	11	2	581	.77	2	5	ND	1	33	1	2	2	4	1.99	.16	5	15	.24	56	.01	8	.44	.01	.02	1	6
DL 4+00E 1+50N	2	6	2	13	.3	9	2	68	.99	2	5	ND	4	9	1	2	2	22	.20	.06	11	13	.20	25	.09	4	.69	.01	.01	1	3
DL 4+00E 1+40N	2	5	7	15	.1	6	1	56	.79	5	5	ND	2	10	1	2	3	26	.15	.01	9	15	.17	29	.14	2	.55	.01	.02	1	5
DL 4+00E 1+30N	2	2	2	8	.2	1	1	28	.72	3	6	ND	5	4	1	3	2	27	.03	.01	8	7	.03	20	.12	3	.28	.01	.02	1	2
DL 4+00E 1+20N	2	3	2	3	.1	1	1	16	.24	2	5	ND	1	5	1	2	2	6	.03	.01	10	7	.02	23	.01	2	.59	.01	.01	1	85
DL 4+00E 1+10N	2	6	4	20	1.0	5	2	40	1.36	5	5	3	1	4	1	2	2	22	.02	.04	3	12	.11	15	.01	2	.75	.01	.02	1	4150
DL 4+00E 1+00N	1	16	14	49	.2	98	17	192	4.44	7	5	ND	2	48	1	2	4	114	.12	.04	17	258	1.54	19	.04	3	2.31	.01	.01	1	7
DL 4+00E 0+90N	1	5	8	26	.1	27	4	50	2.01	2	5	ND	5	7	1	3	3	36	.02	.01	30	40	.32	33	.01	2	1.19	.01	.01	2	28
DL 4+00E 0+80N	1	6	2	52	.1	63	9	84	3.02	2	5	ND	5	7	1	2	2	57	.05	.03	35	58	.88	24	.01	2	1.74	.01	.01	1	3
DL 4+00E 0+70N	2	4	2	22	.1	10	4	36	.94	6	5	ND	1	5	1	2	2	21	.03	.04	7	20	.23	25	.01	2	.87	.01	.02	1	14
DL 4+00E 0+60N	1	2	2	9	.1	4	1	22	.98	5	5	ND	3	5	1	2	2	14	.01	.01	20	14	.09	26	.01	2	1.04	.01	.01	1	12
DL 4+00E 0+50N	1	18	14	66	.1	23	9	329	7.15	5	5	ND	3	4	1	2	3	148	.04	.04	10	41	.68	38	.02	2	2.01	.01	.01	1	8
DL 4+00E 0+40N	1	21	13	59	.1	38	13	216	4.94	6	5	ND	1	7	1	2	6	166	.13	.05	10	102	.96	28	.01	3	1.81	.01	.02	1	65
DL 4+00E 0+30N	1	24	18	67	.1	21	11	339	8.46	2	5	ND	3	4	1	2	2	228	.08	.04	9	41	.53	41	.02	2	1.81	.01	.01	1	29
DL 4+00E 0+20N	1	25	23	77	.3	46	18	398	5.33	6	5	ND	2	8	1	2	3	134	.24	.10	2	66	1.16	35	.01	2	2.08	.01	.03	1	65
DL 4+00E 0+10N	1	42	9	66	.1	24	12	503	5.89	4	5	ND	2	7	1	2	3	194	.18	.04	5	58	.88	40	.02	2	2.01	.01	.01	1	10
DL 4+00E 0+00N	1	22	14	75	.2	53	14	278	7.37	2	5	ND	5	3	1	2	2	207	.03	.02	13	140	1.23	24	.10	2	2.34	.01	.01	1	9
DL 4+00E 0+10S	1	12	5	36	.2	5	5	167	2.64	6	5	ND	2	5	1	2	2	112	.06	.01	3	7	.52	18	.14	2	.94	.01	.01	1	2
DL 4+00E 0+20S	1	43	7	44	.1	22	6	202	1.97	2	5	ND	5	21	1	2	2	33	.83	.05	22	41	.43	54	.12	3	1.43	.01	.02	1	1
DL 4+00E 0+40S	3	19	9	34	.4	4	1	25	.50	3	5	ND	2	34	1	2	2	6	.88	.07	18	7	.05	86	.02	4	.41	.01	.02	1	12
DL 4+00E 0+60S	3	22	2	17	.5	5	1	154	.23	2	5	ND	5	66	1	2	2	10	6.44	.12	12	2	.25	85	.01	20	.30	.01	.01	1	6
DL 4+00E 0+80S	2	30	2	29	.1	19	4	98	1.24	4	5	ND	5	55	1	2	2	6	3.28	.11	55	8	.18	176	.03	6	.92	.01	.01	1	24
DL 4+00E 1+00SA	2	27	4	11	.2	7	2	25	.73	2	5	ND	3	27	1	2	2	5	.43	.07	24	10	.06	116	.03	3	.75	.01	.03	1	30
DL 4+00E 1+00SB	2	11	6	11	.2	4	1	37	.62	5	5	ND	1	9	1	2	2	16	.14	.02	13	10	.10	37	.08	2	.50	.01	.01	1	10
DL 4+00E 1+10S	2	6	3	19	.3	8	3	95	1.16	5	5	ND	4	7	1	2	2	23	.16	.05	7	13	.27	19	.10	2	.69	.01	.02	1	5
DL 4+00E 1+20S	2	1	3	3	.1	1	1	16	.24	5	5	ND	2	4	1	2	2	10	.03	.01	8	7	.02	13	.07	2	.18	.01	.01	1	7
DL 4+00E 1+30S	2	5	4	12	.1	2	1	40	.84	3	5	ND	3	5	1	2	2	54	.06	.01	7	10	.10	16	.15	2	.46	.01	.02	1	8
DL 4+00E 1+40S	2	4	3	10	.3	2	1	52	.86	3	5	ND	3	5	1	2	2	52	.08	.01	5	9	.13	10	.17	2	.42	.01	.02	1	4
DL 4+00E 1+50S	1	8	8	42	.1	17	6	248	2.32	6	5	ND	3	8	1	2	2	57	.19	.02	7	37	.78	34	.17	2	1.51	.01	.02	1	8
DL 4+00E 0+25E	2	12	5	26	.2	7	2	52	.73	2	5	ND	4	48	1	2	2	6	3.79	.08	38	8	.23	86	.02	7	.99	.01	.01	1	8
STD C/FA-AU	21	58	40	137	7.2	68	27	1183	3.99	39	18	9	38	52	17	15	21	61	.46	.14	37	57	.88	179	.08	41	1.80	.06	.11	12	51

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PAGE 6

SAMPLE	NO PPH	Cu PPH	Pb PPH	Zn PPH	Ag PPH	Hg PPH	Co PPH	Mn PPH	Fe 1	As PPH	U PPH	Au PPH	Tl PPH	Sr PPH	Cd PPH	Sb PPH	Bi PPH	V PPH	Ca 1	P 1	La PPH	Cr PPH	Mg 1	Ba PPH	Ti 1	B PPH	Al 1	Na 1	K 1	N PPH	M PPH
DL 4-30R 6+50E	1	1	3	4	.2	1	1	10	.47	2	5	ND	1	9	1	2	2	11	.11	.01	7	8	.03	10	.04	2	.46	.01	.02	1	2
DL 4-30R 8+75E	1	11	2	25	.2	13	5	95	1.86	2	5	ND	3	7	1	2	2	27	.10	.05	7	22	.24	22	.09	3	1.18	.01	.04	1	4
DL 4-30R 1+00E	1	15	9	42	.3	9	2	109	3.33	5	5	ND	4	10	1	2	2	72	.10	.13	6	21	.33	28	.22	5	1.03	.01	.05	1	5
DL 4-30R 1+25E	2	13	6	27	.2	5	3	169	.50	2	5	ND	1	56	1	2	2	6	2.26	.18	28	6	.09	99	.01	8	.45	.01	.02	1	14
DL 4-30R 1+50E	1	8	11	38	.1	6	2	70	2.53	4	5	ND	3	7	1	2	2	56	.06	.04	5	18	.20	23	.19	3	.79	.01	.03	1	2
DL 4-30R 1+75E	1	2	5	10	.3	2	1	30	.86	4	5	ND	3	6	1	2	2	36	.04	.01	5	11	.06	14	.14	2	.40	.01	.03	1	4
DL 4-30R 2+25E	1	27	8	61	.2	4	1	20	.35	2	5	ND	1	21	1	2	2	3	.32	.11	27	8	.03	50	.03	2	.78	.01	.02	1	1
DL 4-30R 2+50E	1	4	2	51	.1	3	1	12	.21	2	5	ND	1	20	1	2	2	1	.77	.04	2	2	.04	38	.01	2	.14	.01	.01	1	4
DL 4-30R 2+75E	1	28	3	35	.2	6	1	41	.45	2	5	ND	4	37	1	2	2	3	.89	.11	48	5	.04	90	.01	4	.51	.01	.02	1	1
DL 4-30R 3+00E	2	5	4	22	.1	6	1	45	.78	2	5	ND	1	3	1	2	2	21	.03	.01	2	10	.17	20	.08	2	.57	.01	.04	1	12
DL 4-30R 3+25E	3	15	12	54	.1	14	2	76	4.18	154	5	ND	2	4	1	2	2	43	.02	.03	4	44	.28	34	.07	2	1.32	.01	.03	1	7
DL 4-30R 3+50E	1	7	10	23	.1	6	1	57	2.30	8	5	ND	2	6	1	2	2	56	.05	.05	5	23	.16	19	.16	2	.85	.01	.02	1	24
DL 4-30R 3+75E	1	9	7	28	.2	7	2	74	2.36	3	5	ND	4	6	1	2	6	62	.05	.04	4	21	.24	17	.22	3	.72	.01	.04	1	25
DL 5-50E 4+50R	2	39	2	40	.2	8	1	335	.28	2	5	ND	1	61	1	2	2	6	4.98	.09	9	5	.11	96	.01	9	.37	.01	.02	1	1
DL 5-50E 4+20R	1	5	4	9	.1	4	1	27	.71	2	5	ND	1	8	1	2	4	15	.12	.03	8	12	.09	16	.07	2	.56	.01	.01	1	1
DL 5-50E 4+00R	1	4	6	9	.1	3	1	31	.68	2	5	ND	2	8	1	2	3	18	.11	.02	7	10	.11	14	.09	2	.48	.01	.02	1	1
DL 5-50E 3+90R	1	3	3	11	.1	5	1	35	.86	3	5	ND	2	7	1	2	2	16	.11	.03	8	11	.11	18	.07	2	.72	.01	.03	1	1
DL 5-50E 3+80R	1	10	8	20	.1	9	3	75	2.76	3	5	ND	3	8	1	2	2	40	.12	.05	4	25	.25	21	.13	3	1.83	.01	.03	1	1
DL 5-50E 3+70R	1	12	5	17	.1	9	3	65	1.80	2	5	ND	2	6	1	2	2	23	.12	.06	8	22	.20	14	.08	4	1.42	.01	.02	1	2
DL 5-50E 3+60R	1	9	9	25	.1	11	3	89	2.86	5	5	ND	3	6	1	2	2	44	.09	.08	7	30	.27	32	.12	4	1.73	.01	.03	1	1
DL 5-50E 3+50R	1	5	10	22	.1	4	1	39	2.01	2	5	ND	5	6	1	2	2	33	.05	.07	5	19	.08	21	.05	2	1.45	.01	.02	1	1
DL 5-50E 3+40R	1	9	12	31	.1	8	2	83	4.00	5	5	ND	6	7	1	2	3	75	.08	.40	5	31	.24	26	.17	2	1.37	.01	.03	1	1
DL 5-50E 3+30R	1	37	13	46	.1	20	7	141	3.31	4	5	ND	9	12	1	2	2	50	.17	.17	14	34	.48	48	.15	5	2.31	.01	.04	1	1
DL 5-50E 3+20R	1	7	7	21	.1	5	2	51	1.96	2	5	ND	4	6	1	2	2	30	.07	.07	7	17	.13	18	.09	3	1.35	.01	.03	1	2
DL 5-50E 3+10R	1	6	9	20	.1	3	1	38	1.86	3	5	ND	5	6	1	2	3	30	.05	.04	6	19	.09	21	.08	2	1.52	.01	.03	1	1
DL 5-50E 3+00R	1	9	7	40	.1	11	3	111	1.74	2	5	ND	4	11	1	2	6	30	.12	.05	7	21	.31	44	.13	4	.98	.01	.06	1	1
DL 5-50E 2+90R	1	8	11	36	.1	10	3	97	3.15	2	5	ND	4	9	1	6	5	61	.11	.08	5	26	.31	30	.22	5	1.08	.01	.05	1	1
DL 5-50E 2+80R	1	5	4	10	.1	3	1	26	1.01	2	5	ND	2	7	1	2	6	22	.09	.01	6	9	.08	16	.08	2	.67	.01	.03	1	2
DL 5-50E 2+60RA	1	24	6	38	.2	8	3	352	1.15	2	5	ND	3	51	1	2	2	19	4.34	.09	29	11	.39	88	.04	7	.79	.01	.04	1	1
DL 5-50E 2+60RB	1	14	3	78	.1	11	7	437	2.51	2	5	ND	6	22	1	2	2	37	1.37	.11	27	15	.76	88	.19	4	1.34	.01	.10	1	1
DL 5-50E 2+40R	2	9	2	34	.2	3	2	268	.36	2	5	ND	2	47	1	2	2	8	4.85	.05	3	4	.23	60	.01	8	.19	.01	.01	1	1
DL 5-50E 2+20R	5	9	2	50	.1	2	1	231	.51	2	5	ND	2	51	1	2	2	3	6.36	.06	2	4	.31	70	.01	20	.14	.01	.01	1	1
DL 5-50E 2+00R	2	8	4	49	.3	2	1	1624	.59	2	5	ND	2	64	1	2	2	2	6.63	.07	2	2	.35	192	.01	18	.13	.01	.01	1	1
DL 5-50E 1+80R	13	9	17	117	.3	1	11	2474	7.12	15	5	ND	6	75	1	2	3	7	5.88	.18	5	1	.31	1050	.01	12	.11	.01	.01	1	6
DL 5-50E 1+50R	1	18	33	87	.1	9	3	1919	1.79	2	5	ND	2	26	1	2	2	15	2.64	.10	8	9	.27	104	.03	8	.56	.01	.06	1	1
STD C/Fa-AU	20	61	38	136	2.2	68	27	1108	4.01	40	17	8	38	54	17	16	21	56	.48	.14	37	61	.88	186	.08	39	1.72	.07	.11	12	47

NORTHERN DYNASTY FILE # 85-1874

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Mn	Co	Ni	Fe	As	U	Au	In	Sr	Cd	Sb	Bi	V	Cr	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	N	Other
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
DL 5:50E 1+10N	1	22	25	69	.1	11	0	1382	1.17	2	5	ND	2	49	1	2	2	15	3.65	.10	38	12	.32	123	.02	12	.85	.02	.03	1	4
DL 5:50E 0+30N	1	4	11	31	.1	3	1	229	.50	2	5	ND	1	12	1	2	2	14	.39	.01	7	11	.12	38	.05	2	.44	.01	.03	1	12
DL 5:50E 0+10N	1	20	23	60	.2	8	4	384	.90	3	5	ND	3	48	1	2	2	10	2.78	.08	52	10	.19	86	.02	5	.72	.01	.05	1	8
DL 7+00E 4+00N	1	53	11	77	.2	9	1	87	.44	2	5	ND	2	62	1	2	2	6	4.78	.11	25	8	.14	98	.01	7	.63	.01	.04	1	4
DL 7+00E 3+00N	1	30	2	43	.2	6	1	70	.27	2	5	ND	1	46	1	2	2	8	3.80	.07	9	3	.14	59	.01	9	.31	.01	.02	1	4
DL 7+00E 3+00N	1	57	6	41	.3	8	1	116	.25	2	5	ND	2	60	1	2	2	12	5.48	.08	21	4	.19	81	.01	11	.41	.01	.03	1	4
DL 7+00E 3+40N	1	45	2	76	.1	8	1	265	.43	2	5	ND	2	64	1	2	2	5	6.80	.10	36	7	.24	116	.01	15	.51	.01	.02	1	8
DL 7+00E 3+20N	1	16	5	39	.1	4	1	310	.25	2	5	ND	1	56	1	2	2	6	5.76	.06	13	4	.24	100	.01	8	.34	.01	.02	1	1
DL 7+00E 3+00N	1	27	10	47	.3	8	18	781	1.04	2	5	ND	4	60	1	2	2	8	3.44	.18	44	13	.20	119	.01	9	.78	.01	.01	1	8
DL 7+00E 2+90N	1	33	7	46	.1	9	2	62	1.38	2	5	ND	4	63	1	2	2	7	2.93	.14	46	.1	.20	114	.02	5	.88	.01	.03	1	6
DL 7+00E 2+80N	1	28	7	46	.3	8	2	31	1.04	2	5	ND	4	34	1	2	2	7	1.10	.09	36	15	.10	82	.02	2	.66	.01	.03	1	8
DL 7+00E 2+70N	1	24	11	44	.3	9	2	63	1.57	2	5	ND	5	24	1	2	2	26	.59	.04	36	21	.17	75	.07	2	.76	.01	.04	2	30
DL 7+00E 2+60N	1	10	12	40	.1	21	5	187	2.06	7	5	ND	6	18	1	3	2	37	.41	.05	18	33	.65	53	.14	2	1.19	.01	.11	2	8
DL 7+00E 2+50N	1	4	2	35	.1	6	1	62	.79	2	5	ND	3	9	1	2	2	16	.22	.05	10	12	.17	13	.08	2	.38	.01	.04	1	4
DL 7+00E 2+40N	1	6	7	24	.1	12	4	82	1.45	3	5	ND	5	12	1	2	2	25	.23	.03	12	18	.24	38	.10	2	.87	.01	.04	1	3
DL 7+00E 2+30N	1	6	5	14	.1	8	2	71	1.14	2	5	ND	8	9	1	2	2	17	.25	.09	16	17	.16	13	.07	2	.69	.01	.04	1	6
DL 7+00E 2+20N	1	4	3	14	.1	4	1	40	1.05	2	5	ND	3	6	1	2	3	24	.07	.01	9	10	.11	14	.09	2	.85	.01	.04	1	10
DL 7+00E 2+10N	1	7	9	25	.1	8	3	94	3.29	5	5	ND	6	7	1	2	7	52	.13	.04	14	30	.23	19	.12	3	1.49	.01	.05	1	6
DL 7+00E 2+00N	1	10	9	57	.1	16	5	150	3.20	2	5	ND	2	11	1	2	4	60	.14	.02	10	28	.47	52	.19	2	1.65	.01	.06	1	18
DL 7+00E 1+90N	1	8	5	29	.1	11	3	93	1.33	2	5	ND	5	10	1	2	2	24	.18	.02	12	18	.31	31	.10	2	1.03	.01	.05	1	1
DL 7+00E 1+80N	1	5	4	22	.1	9	2	68	1.39	2	5	ND	2	11	1	2	3	27	.22	.05	10	14	.19	22	.09	2	.69	.01	.05	1	10
DL 7+00E 1+70N	1	11	10	66	.2	17	9	367	3.09	4	5	ND	7	15	1	2	2	61	.45	.06	20	26	.44	60	.14	2	1.58	.01	.05	1	12
DL 7+00E 1+60N	1	4	10	24	.1	11	2	100	1.23	3	5	ND	3	7	1	2	2	31	.12	.01	7	21	.34	15	.15	2	.76	.01	.04	1	6
DL 7+00E 1+50N	1	4	6	17	.1	6	1	58	1.03	2	5	ND	3	7	1	2	2	24	.12	.02	8	11	.17	19	.10	2	.76	.01	.03	1	10
DL 7+00E 1+40N	1	6	7	15	.5	7	2	46	1.60	2	5	ND	5	6	1	2	2	22	.09	.03	9	19	.12	17	.07	2	1.66	.01	.03	1	6
DL 7+00E 1+30N	1	5	7	26	.1	7	1	80	1.85	2	5	ND	6	7	1	2	2	41	.09	.03	6	15	.23	15	.15	2	.86	.01	.05	1	10
DL 7+00E 1+20N	1	12	12	44	.1	16	5	161	4.27	2	5	ND	6	7	1	2	2	84	.10	.11	8	38	.37	29	.22	2	1.73	.01	.05	1	15
DL 7+00E 1+10N	1	10	7	40	.1	13	3	98	3.37	4	5	ND	7	6	1	2	2	48	.09	.08	6	38	.28	20	.14	2	1.73	.01	.03	1	12
DL 7+00E 1+00N	1	6	10	20	.1	11	3	76	2.04	3	5	ND	6	7	1	2	2	33	.11	.09	8	22	.18	21	.11	3	1.60	.01	.04	1	12
DL 7+00E 0+90N	1	5	7	24	.1	6	1	56	2.21	3	5	ND	6	6	1	2	2	42	.07	.05	8	15	.12	22	.12	2	1.10	.01	.04	1	6
DL 7+00E 0+80N	1	8	12	30	.1	11	2	120	4.11	2	5	ND	5	7	1	2	2	71	.08	.05	9	35	.31	23	.21	2	1.36	.01	.04	1	32
DL 7+00E 0+70N	1	6	4	24	.1	6	1	89	2.16	8	5	ND	7	7	1	3	4	57	.08	.04	9	20	.23	21	.19	2	.68	.01	.07	1	3
DL 7+00E 0+60N	1	5	3	16	.1	6	1	72	1.40	3	5	ND	4	7	1	2	8	43	.08	.02	7	13	.22	16	.16	2	.59	.01	.06	1	8
DL 7+00E 0+50N	1	4	2	11	.3	9	3	67	1.06	5	5	ND	5	10	1	3	2	17	.29	.09	10	15	.17	20	.07	2	.60	.01	.04	1	3
DL 7+00E 0+40N	1	23	7	47	.1	18	8	197	2.69	2	5	ND	6	14	1	2	2	47	.47	.06	11	23	.57	67	.5	2	1.43	.01	.08	1	6
DL 7+00E 0+30N	1	5	2	20	.1	8	3	112	1.07	2	5	ND	6	10	1	2	3	19	.34	.06	14	13	.26	25	.08	2	.64	.01	.06	1	4
STD C/FB NJ	21	59	40	137	6.9	72	27	1189	3.99	38	15	7	58	51	17	16	20	61	.48	.13	37	59	.88	175	.08	41	1.72	.06	.12	11	46

NORTHERN DYNASTY FILE # 85-1874

SAMPLE#	No PPR	Cu PPR	Pb PPR	Zn PPR	Ag PPR	Ni PPR	Co PPR	Mn PPR	Fe %	As PPR	U PPR	Au PPR	Tl PPR	Sr PPR	Cd PPR	Sb PPR	Bi PPR	V PPR	Ca %	P %	La PPR	Cr PPR	Mg %	Ba PPR	Ti %	B PPR	Al %	Na %	K %	V PPR	Au** PPR
DL 7+00E 0+20N	1	31	2	22	.5	8	1	209	.56	2	5	ND	10	47	1	2	2	5	3.96	.08	59	10	.26	88	.01	5	.63	.01	.01	1	12
DL 7+00E 0+10N	1	17	3	29	.2	5	2	343	.66	2	5	ND	8	49	1	2	2	6	4.26	.09	37	9	.30	80	.01	7	.55	.01	.02	1	1
DL 7+00E 0+00N	1	19	2	47	.3	5	1	99	.52	3	5	ND	10	62	1	2	2	4	5.34	.09	45	4	.35	102	.01	7	.61	.01	.01	1	1
DL 7+00E 0+10S	1	14	5	25	.2	3	2	494	.43	2	5	ND	8	50	1	2	2	5	4.11	.12	27	4	.32	85	.01	9	.45	.01	.02	1	10
DL 7+00E 0+30S	1	12	2	16	.5	3	1	129	.39	2	5	ND	9	60	1	3	2	5	5.00	.09	32	3	.37	92	.01	14	.53	.01	.01	1	4
DL 7+00E 0+50S	1	16	6	42	.1	17	5	310	2.10	5	5	ND	8	23	1	2	2	34	1.06	.04	33	29	.52	68	.11	3	1.13	.01	.04	1	4
DL 7+00E 0+70S	1	9	3	13	.3	4	1	75	.37	2	5	ND	5	44	1	2	2	3	3.40	.08	26	3	.31	64	.01	16	.39	.02	.01	1	4
DL 7+00E 0+90S	1	11	2	15	.1	3	1	32	.17	3	5	ND	4	35	1	2	2	4	2.82	.07	14	2	.24	51	.01	14	.26	.01	.01	1	1
DL 8+50E 3+30NA	1	36	9	18	.5	9	2	57	.81	2	5	ND	6	58	1	2	2	11	2.86	.05	16	10	.08	118	.05	5	.77	.01	.03	1	4
DL 8+50E 3+30NB	1	13	7	22	.1	10	3	95	1.17	4	5	ND	6	15	1	2	5	26	.41	.02	10	19	.27	36	.13	2	.88	.01	.02	1	1
DL 8+50E 3+20N	1	9	5	18	.4	9	3	75	1.44	5	5	ND	7	10	1	2	3	27	.16	.03	12	17	.21	29	.10	2	1.31	.01	.02	1	1
DL 8+50E 3+15N	1	28	5	20	.1	13	3	95	3.05	7	5	ND	5	9	1	2	8	40	.12	.02	15	25	.23	26	.14	2	1.66	.01	.02	1	3
DL 8+50E 3+10N	1	14	4	18	.4	10	2	91	2.64	10	5	ND	8	9	1	2	6	35	.16	.05	10	23	.22	19	.13	2	1.30	.01	.03	1	1
DL 8+50E 3+05N	1	4	7	9	.4	2	1	43	.55	2	5	ND	5	7	1	2	5	17	.06	.01	7	6	.08	20	.09	2	.43	.01	.04	2	1
DL 8+50E 3+00N	1	8	5	19	.3	6	1	74	1.04	2	5	ND	4	8	1	2	8	33	.09	.01	7	13	.19	19	.13	2	.69	.01	.02	1	3
DL 8+50E 2+95N	1	6	9	14	.1	4	1	60	.96	6	5	ND	4	10	1	4	14	35	.10	.01	8	10	.17	17	.17	2	.63	.01	.03	1	2
DL 8+50E 2+90N	1	8	5	11	.1	4	1	53	.69	5	5	ND	1	7	1	2	3	22	.05	.01	7	9	.10	30	.06	2	.49	.01	.02	1	4
DL 8+50E 2+85N	1	16	4	23	.1	12	3	120	2.23	8	5	ND	3	8	1	2	2	44	.13	.04	8	27	.38	23	.13	2	1.44	.01	.04	1	3
DL 8+50E 2+80N	1	11	6	42	.1	20	5	159	2.17	7	5	ND	3	8	1	2	5	54	.07	.02	8	87	1.17	33	.22	2	1.68	.01	.05	1	25
DL 8+50E 2+70N	1	7	6	18	.4	7	2	83	1.46	5	5	ND	4	8	1	2	2	32	.09	.02	7	15	.19	17	.06	2	.70	.01	.04	1	2
DL 8+50E 2+60N	1	9	7	18	.4	7	1	74	2.03	5	5	ND	5	8	1	2	2	33	.08	.03	9	21	.19	21	.16	2	.81	.01	.03	1	14
DL 8+50E 2+50N	1	14	5	30	.1	16	3	124	2.49	5	5	ND	5	10	1	2	2	67	.12	.02	9	35	.42	22	.21	4	1.13	.01	.05	1	2
DL 8+50E 2+40N	1	22	8	30	.2	21	4	163	1.89	6	5	ND	3	7	1	2	2	33	.09	.01	8	47	.57	22	.19	2	1.31	.01	.03	1	1
DL 8+50E 2+30N	1	5	2	13	.1	7	1	68	1.69	7	5	ND	5	9	1	3	2	37	.14	.03	10	17	.17	16	.12	3	1.03	.01	.02	1	1
DL 8+50E 2+20N	1	8	6	14	.3	15	4	79	1.29	4	5	ND	6	11	1	2	2	23	.22	.06	10	19	.22	28	.10	2	.94	.01	.02	1	6
DL 8+50E 2+10N	1	5	3	12	.1	5	1	53	1.62	2	5	ND	5	8	1	2	2	33	.09	.01	7	16	.15	22	.10	2	1.39	.01	.01	1	1
DL 8+50E 2+00N	1	12	7	26	.3	13	4	131	2.19	2	5	ND	5	12	1	2	2	47	.19	.05	9	24	.40	28	.17	3	1.29	.01	.03	1	4
DL 8+50E 1+87N	1	5	3	14	.4	5	1	56	1.25	3	5	ND	4	8	1	2	3	30	.10	.01	10	14	.14	19	.11	2	.90	.01	.03	1	1
DL 8+50E 1+75NA	1	21	25	37	.2	7	3	76	.66	3	5	ND	4	48	1	2	5	10	.79	.06	23	11	.13	123	.04	2	.55	.01	.05	1	1
DL 8+50E 1+75NB	1	9	6	27	.3	11	4	132	1.45	4	5	ND	5	13	1	2	10	27	.32	.04	16	17	.40	42	.12	3	1.00	.01	.05	1	3
DL 8+50E 1+50N	1	11	4	16	.3	6	1	83	.34	2	5	ND	5	64	1	2	2	7	5.69	.08	11	7	.33	93	.01	10	.45	.01	.01	1	1
DL 8+50E 1+25N	6	11	2	12	.6	2	2	785	.24	2	5	ND	6	56	1	2	2	7	5.33	.05	7	3	.31	132	.01	10	.25	.01	.02	1	1
DL 8+50E 1+00N	3	10	2	10	.4	4	1	73	.25	2	5	ND	5	67	1	2	2	5	5.97	.07	5	5	.40	98	.01	14	.28	.01	.01	1	1
DL 8+50E 0+90N	1	13	4	13	.3	4	2	237	.59	5	5	ND	6	68	1	2	6	6	5.57	.12	13	6	.38	103	.01	10	.51	.01	.04	1	1
DL 8+50E 0+80N	1	14	8	16	.3	4	1	33	.49	2	5	ND	5	66	1	2	3	6	4.43	.07	7	10	.37	96	.03	6	.40	.01	.03	1	1
DL 8+50E 0+70N	1	5	6	14	.1	9	2	74	1.75	6	5	ND	4	11	1	2	7	32	.22	.05	12	19	.20	28	.10	3	1.05	.01	.03	1	1
ST9 C/FA-AU	21	60	40	137	6.9	68	27	1194	3.88	40	18	8	39	53	17	15	19	61	.48	.13	37	60	.88	182	.08	41	1.72	.04	.11	12	48

NORTHERN DYNASTY FILE # 85-1674

PAGE

SAMPLE#	Mo PPH	Cu PPH	Pb PPH	Zn PPH	Ag PPH	Ni PPH	Co PPH	Mn PPH	Fe 1	As PPH	U PPH	Au PPH	Hg PPH	Sr PPH	Cd PPH	Sb PPH	Bi PPH	V PPH	Ca 1	F 2	Lu PPH	Cr PPH	Hg 1	Ba PPH	Pi 1	B PPH	Al 1	Na 1	K 1	W PPH	Aut PPH
DL 10+00E 2+80H	1	18	6	56	.2	5	2	69	.42	2	5	ND	2	76	1	2	2	4	4.12	.09	11	4	.20	116	.01	5	.43	.01	.01	1	3
DL 10+00E 2+60H	1	41	13	30	.1	6	1	35	.78	2	5	ND	1	20	1	2	2	6	.55	.07	9	11	.08	71	.02	2	.61	.01	.04	1	1
DL 10+00E 2+50H	1	105	10	56	.3	66	10	211	5.29	2	5	ND	4	9	1	2	7	83	.29	.04	5	260	1.07	53	.33	2	2.42	.03	.06	1	1
DL 10+00E 2+40HA	1	20	4	15	.1	21	3	68	1.01	2	5	ND	2	8	1	2	2	27	.22	.02	8	24	.34	25	.12	2	.83	.01	.02	1	2
DL 10+00E 2+40HB	1	25	3	16	.1	16	3	66	1.21	2	5	ND	4	10	1	2	2	33	.22	.02	11	21	.28	36	.11	7	1.04	.01	.03	1	1
DL 10+00E 2+30H	1	7	8	29	.4	10	3	135	1.58	2	5	ND	3	11	1	2	2	37	.20	.03	7	19	.42	19	.17	2	.89	.01	.04	1	1
DL 10+00E 2+20H	1	7	5	19	.1	10	2	87	1.23	2	5	ND	4	10	1	2	2	46	.17	.02	9	16	.26	24	.16	3	.70	.01	.03	1	1
DL 10+00E 2+10H	1	4	4	13	.2	6	1	66	.86	2	5	ND	2	10	1	2	2	25	.21	.05	8	14	.18	17	.11	2	.53	.01	.03	1	1
DL 10+00E 2+00H	1	3	4	11	.2	4	1	60	.58	2	5	ND	2	9	1	2	2	17	.19	.02	5	9	.16	12	.10	2	.34	.01	.02	1	2
DL 10+00E 1+90H	1	3	7	15	.1	5	1	70	.69	2	5	ND	3	11	1	2	2	21	.22	.02	7	11	.19	13	.13	2	.46	.01	.03	1	1
DL 10+00E 1+80H	1	9	10	24	.1	13	4	139	1.41	2	5	ND	3	12	1	2	2	30	.32	.03	9	21	.41	31	.14	3	.84	.01	.04	1	1
M. 10+00E 1+70H	1	38	11	33	.2	24	9	308	2.48	4	5	ND	6	22	1	2	2	46	.67	.07	29	40	.47	76	.12	4	1.66	.01	.04	1	1
DL 10+00E 1+60H	1	82	5	10	.1	22	5	477	2.12	2	5	ND	10	52	1	3	2	31	3.08	.22	51	27	.14	117	.02	4	1.89	.01	.01	1	2
DL 10+00E 1+50H	1	24	5	26	.1	18	4	162	1.62	2	8	ND	6	15	1	2	2	28	.52	.07	25	18	.37	40	.13	5	.89	.01	.04	1	1
DL 10+00E 1+40H	1	8	6	36	.5	14	5	217	1.49	2	5	ND	5	12	1	2	2	28	.30	.02	9	23	.42	32	.15	2	.85	.01	.05	1	1
DL 10+00E 1+25H	1	27	10	93	.2	59	19	509	5.04	2	5	ND	9	16	1	2	9	135	.78	.13	34	154	1.71	70	.53	6	2.05	.01	.15	1	1
DL 10+00E 1+00H	1	60	10	11	.5	17	9	1089	1.73	2	5	ND	8	72	1	2	2	21	3.91	.22	116	17	.23	142	.01	4	1.23	.01	.03	1	1
DL 10+00E 0+75H	1	17	7	29	.1	12	5	157	1.84	2	7	ND	5	20	1	2	2	35	.52	.07	18	26	.45	26	.12	3	.79	.01	.04	1	1
DL 10+00E 0+50H	1	7	7	32	.1	13	3	220	1.94	2	5	ND	4	11	1	3	2	30	.35	.03	8	18	.49	31	.14	2	1.00	.01	.04	1	1
DL 10+00E 0+40H	1	7	5	21	.1	11	3	104	1.58	2	5	ND	3	10	1	2	2	36	.26	.02	7	18	.30	16	.14	2	.77	.01	.03	2	1
DL 10+00E 0+30H	1	8	9	31	.1	14	4	155	2.06	2	5	ND	4	12	1	2	2	53	.19	.03	8	23	.40	24	.19	2	.96	.01	.05	1	6
DL 10+00E 0+20H	1	17	8	58	.1	21	7	273	3.34	2	5	ND	6	15	1	2	4	70	.22	.04	8	37	.76	48	.26	3	1.62	.01	.13	1	2
DL 10+00E 0+10H	1	5	6	21	.1	9	2	107	1.37	2	5	ND	4	10	1	3	2	28	.21	.02	10	15	.28	27	.12	3	.83	.01	.05	1	1
DL 10+00E 0+00H	1	15	9	47	.1	21	6	281	2.45	2	5	ND	5	16	1	2	2	41	.51	.04	24	25	.54	65	.15	5	1.72	.01	.06	1	1
DL 10+00E 0+25S	1	15	10	36	.1	21	5	224	2.10	2	5	ND	5	21	1	3	2	34	.56	.07	33	25	.45	76	.10	6	1.74	.02	.05	1	1
DL 10+00E 0+50S	1	26	3	6	.3	6	1	157	.53	2	5	ND	3	57	1	2	2	6	6.52	.10	24	6	.32	75	.01	14	.62	.01	.01	1	1
DL 10+00E 0+75S	1	14	4	7	.2	3	1	119	.14	2	5	ND	1	50	1	2	2	7	6.46	.08	2	3	.31	58	.01	19	.13	.01	.01	1	1
DL 10+00E 1+35S	1	5	7	11	.1	5	1	41	.58	2	5	ND	1	7	1	2	2	14	.07	.01	4	15	.17	19	.03	2	.53	.01	.01	1	65
DL 10+00E 1+40S	1	7	7	20	.1	13	3	48	.95	3	5	ND	1	7	1	2	3	16	.04	.03	5	32	.48	25	.01	2	.87	.01	.01	1	2
DL 10+00E 1+50S	1	10	9	10	.1	3	1	21	.41	2	6	ND	1	8	1	2	2	8	.07	.02	7	9	.07	47	.01	2	.62	.01	.02	1	1
DL 10+00E 1+60S	1	15	10	16	.1	8	2	30	.83	2	14	ND	1	8	1	2	2	14	.04	.04	7	14	.11	36	.01	2	.55	.01	.03	1	21
DL 10+00E 1+70S	1	6	12	13	.1	5	1	70	.74	6	5	ND	1	7	1	2	2	21	.04	.02	10	16	.15	27	.02	2	.94	.01	.02	1	4
DL 10+00E 1+80S	1	14	19	23	.1	7	1	78	2.33	2	5	ND	3	5	1	2	3	38	.03	.03	7	18	.10	42	.01	2	1.64	.01	.03	1	29
DL 10+00E 1+90S	1	5	10	17	.1	9	2	95	.90	2	5	ND	2	4	1	2	2	16	.04	.01	4	12	.15	27	.01	2	.98	.01	.02	1	33
DL 10+00E 2+00S	1	15	11	19	.1	8	2	76	2.75	2	5	ND	5	7	1	2	3	45	.09	.02	9	28	.17	27	.12	2	2.15	.01	.02	1	31
DL 10+00E 2+10S	1	26	8	13	.1	9	2	77	1.14	3	5	ND	5	11	1	2	2	20	.28	.08	15	18	.20	12	.06	2	.72	.01	.02	1	2
STD C/F/A NJ	20	59	39	138	7.0	75	28	1198	3.99	40	16	8	36	52	17	15	20	61	.48	.15	36	61	.88	180	.08	40	1.72	.06	.11	11	52

NORTHERN DYNASTY FILE # 05-1874

SAMPLE	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Mg PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Hg PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Hg %	Ba PPM	Li %	S PPM	Al %	Na %	K %	M PPM	PPB
DL 0+50E 0+60M	1	7	7	13	.1	9	3	70	1.57	3	5	ND	5	8	1	4	2	21	.16	.06	9	18	.18	18	.08	2	1.44	.01	.02	1	2
DL 0+50E 0+50M	1	9	8	18	.1	9	3	80	2.22	3	5	ND	6	8	1	2	2	46	.12	.05	8	24	.22	25	.13	2	1.59	.01	.03	1	1
DL 0+50E 0+10M	1	13	13	26	.1	15	5	121	2.68	4	5	ND	6	8	1	2	2	48	.12	.07	6	26	.34	35	.17	2	2.05	.01	.03	1	5
DL 0+50E 0+30M	1	5	14	19	.2	8	2	82	2.43	2	5	ND	4	7	1	2	2	47	.11	.06	5	21	.18	23	.15	2	1.53	.01	.02	1	1
DL 0+50E 0+20M	1	6	13	18	.1	9	2	94	2.71	5	5	ND	6	9	1	2	2	51	.15	.11	9	27	.21	30	.14	2	1.87	.01	.03	1	1
DL 0+50E 0+10M	1	8	16	25	.2	7	2	96	3.35	2	5	ND	6	7	1	2	2	50	.09	.12	4	33	.18	21	.12	2	2.13	.01	.04	1	1
DL 0+50E 0+00M	1	5	12	20	.1	7	2	85	2.71	3	5	ND	4	8	1	2	2	46	.09	.12	6	22	.13	43	.10	2	1.84	.01	.03	1	1
DL 0+50E 0+10S	1	9	13	27	.1	11	3	89	2.44	3	5	ND	8	9	1	2	2	38	.15	.18	9	26	.20	30	.11	3	1.84	.01	.03	1	2
DL 0+50E 0+20S	1	7	11	35	.1	12	3	142	2.45	4	5	ND	5	10	1	2	2	38	.13	.13	7	24	.15	57	.10	3	2.22	.01	.02	1	1
DL 0+50E 0+30S	1	5	10	18	.1	5	1	76	1.94	3	5	ND	5	7	1	2	3	36	.09	.16	7	17	.13	22	.11	2	1.00	.01	.03	1	1
DL 0+50E 0+10S	1	9	9	31	.2	11	3	141	2.81	5	5	ND	6	10	1	2	2	45	.14	.16	8	31	.28	27	.11	3	1.59	.01	.03	1	2
DL 0+50E 0+50S	1	17	9	41	.1	13	5	167	2.68	2	5	ND	7	11	1	2	2	39	.16	.10	8	27	.30	45	.13	2	2.35	.01	.05	1	1
DL 0+50E 0+60S	1	6	13	33	.1	8	2	175	2.93	6	5	ND	4	11	1	2	2	50	.12	.11	8	23	.17	42	.14	2	1.51	.01	.03	1	4
DL 0+50E 0+70S	1	7	13	25	.1	5	1	71	2.54	5	5	ND	5	7	1	2	2	49	.09	.06	6	20	.14	23	.14	3	1.06	.01	.03	1	3
DL 0+50E 0+80S	1	14	14	33	.1	17	5	138	3.23	4	5	ND	4	12	1	2	2	70	.17	.04	7	28	.40	46	.22	2	1.67	.01	.05	1	4
DL 0+50E 0+90S	1	9	5	32	.1	12	6	192	2.10	2	5	ND	7	14	1	2	2	30	.58	.12	16	23	.47	30	.12	2	.86	.01	.04	1	3
DL 0+50E 1+30S	1	24	9	27	.1	12	4	113	1.22	3	5	ND	8	13	1	2	2	19	.34	.06	18	19	.33	25	.12	3	.76	.01	.01	1	5
DL 0+50E 1+40S	1	13	17	51	.2	208	16	224	5.60	2	5	ND	9	15	1	2	2	85	.16	.03	29	452	2.28	30	.05	3	3.17	.01	.01	1	180
DL 0+50E 1+50S	1	14	8	16	.1	13	4	84	1.54	2	5	ND	5	11	1	2	2	25	.22	.04	11	16	.22	32	.10	2	.93	.01	.01	1	2
DL 0+50E 1+60S	1	8	9	16	.1	8	3	81	2.44	5	5	ND	7	7	1	7	2	42	.10	.06	8	23	.18	26	.12	2	1.93	.01	.01	1	1
DL 0+50E 1+70S	1	19	21	44	.2	16	4	158	4.96	3	5	ND	9	11	1	2	2	53	.16	.09	7	48	.37	39	.14	2	2.75	.01	.04	1	4
DL 0+50E 1+80S	1	21	20	58	.1	30	9	288	5.79	3	5	ND	4	8	1	2	2	172	.13	.05	5	68	.68	48	.02	2	2.23	.01	.02	1	1
DL 10+00E 4+60M	1	53	22	68	.2	27	20	250	5.43	2	5	ND	2	8	1	2	2	218	.25	.02	2	48	1.24	45	.31	3	2.80	.04	.03	1	1
DL 10+00E 4+30M	1	67	6	25	.3	10	2	100	.35	2	5	ND	4	69	1	2	2	8	5.97	.08	15	8	.14	121	.01	7	.62	.01	.01	1	1
DL 10+00E 4+10M	1	41	2	31	.5	16	4	198	1.17	3	7	ND	8	68	1	2	2	19	5.60	.17	44	19	.51	105	.07	9	.77	.01	.03	1	1
DL 10+00E 3+90M	1	19	3	18	.1	4	1	67	.17	2	5	ND	4	64	1	2	2	5	5.90	.05	5	1	.19	67	.01	7	.19	.01	.01	1	4
DL 10+00E 3+70M	4	18	8	23	.3	6	11	878	.74	4	5	ND	4	66	1	2	2	7	5.21	.10	4	6	.22	279	.01	11	.31	.02	.01	1	1
DL 10+00E 3+50M	1	29	12	34	.2	5	1	157	4.88	5	5	ND	3	8	1	2	6	203	.36	.02	2	15	.21	24	.64	2	1.02	.02	.05	1	19
DL 10+00E 3+45M	1	19	19	24	.1	4	1	89	3.51	6	5	ND	3	8	1	2	2	106	.18	.02	3	10	.13	25	.35	2	.79	.01	.03	2	105
DL 10+00E 3+40M	1	25	8	46	.2	16	5	73	4.45	8	5	ND	5	6	1	7	2	33	.07	.02	3	24	.19	14	.11	2	1.52	.01	.02	1	6
DL 10+00E 3+35M	1	58	12	33	.1	20	7	91	3.80	6	5	ND	7	5	1	2	4	48	.88	.03	5	27	.27	14	.12	2	2.55	.01	.02	2	4
DL 10+00E 3+30M	1	16	8	17	.1	16	4	79	1.64	6	5	ND	5	7	1	2	2	27	.11	.02	9	20	.22	28	.10	2	1.23	.01	.01	1	2
DL 10+00E 3+25M	1	17	4	16	.1	8	2	71	1.27	6	5	ND	5	8	1	2	2	20	.14	.03	13	14	.19	13	.09	2	.88	.01	.01	1	2
DL 10+00E 3+20M	1	27	17	55	.3	21	7	293	3.80	4	5	ND	8	14	1	2	2	58	.15	.03	10	58	.85	102	.21	2	2.72	.01	.19	1	3
DL 10+00E 3+10M	1	10	6	23	.1	13	4	102	1.55	3	5	ND	8	11	1	2	2	25	.33	.02	23	17	.26	31	.12	2	1.10	.01	.01	1	2
DL 10+00E 3+00M	1	36	14	34	.1	9	3	97	1.11	2	5	ND	7	46	1	2	2	7	1.72	.12	53	9	.19	147	.02	3	.74	.01	.02	1	1
STD C/FB-AU	20	59	38	136	7.2	68	26	1181	3.98	40	17	8	37	51	16	15	20	60	.48	.14	38	58	.88	177	.08	38	1.72	.05	.10	11	50

NORTHERN DYNASTY FILE # 65-1874

SAMPLE	Mo PPH	Cu PPH	Pb PPH	Zn PPH	Ag PPH	Ni PPH	Cd PPH	Mn PPH	Fe %	As PPH	U PPH	Au PPH	Ta PPH	Sr PPH	Co PPH	Sb PPH	Bi PPH	V PPH	Ca %	P %	La PPH	Er PPH	Hg %	Ba PPH	Ti %	B PPH	Al %	Na %	K %	P PPH	As PPH
DL 12+00E 2+20S	1	9	7	23	.3	10	2	119	1.31	3	5	ND	6	14	1	2	2	29	.31	.02	13	19	.33	20	.16	2	.89	.01	.04	1	3
DL 12+00E 3+00N	1	7	4	18	.1	5	2	79	1.92	2	5	ND	6	8	1	3	4	30	.11	.10	10	17	.14	18	.11	4	.99	.01	.04	1	1
DL 12+00E 2+90N	1	9	4	16	.1	10	3	99	2.39	3	5	ND	6	8	1	2	3	34	.12	.09	9	20	.18	31	.12	2	1.86	.01	.03	1	1
DL 12+00E 2+80N	1	8	12	16	.1	10	3	74	2.32	4	5	ND	3	9	1	2	10	37	.12	.03	7	24	.18	44	.13	2	1.76	.01	.04	1	1
DL 12+00E 2+70N	1	10	12	15	.2	20	2	69	1.99	3	5	ND	8	11	1	2	9	25	.14	.03	11	26	.17	50	.11	2	2.12	.01	.03	1	1
DL 12+00E 2+60N	1	8	6	17	.1	11	3	76	1.32	4	5	ND	6	11	1	2	18	25	.18	.02	17	16	.23	42	.12	3	1.08	.01	.04	1	2
DL 12+00E 2+40N	1	31	10	44	.2	11	6	187	1.99	6	5	ND	6	25	1	3	14	30	1.11	.07	28	20	.50	68	.12	3	1.22	.01	.06	1	5
DL 12+00E 2+20N	1	17	4	9	.3	4	1	27	.42	2	5	ND	3	47	1	2	15	6	4.25	.06	18	3	.21	94	.01	6	.44	.01	.02	1	4
DL 12+00E 2+00N	1	8	7	68	.4	39	8	321	3.63	2	5	ND	25	28	1	2	17	63	.31	.03	9	101	1.24	72	.30	2	1.34	.02	.51	1	3
DL 12+00E 1+90N	1	51	20	66	.2	26	12	309	5.27	4	5	ND	5	16	1	2	24	144	.20	.02	7	23	1.11	42	.27	2	2.15	.02	.04	1	1
DL 12+00E 1+80NA	1	22	13	31	.3	16	4	137	4.05	3	5	ND	4	10	1	2	18	62	.13	.02	6	71	.54	25	.23	2	1.85	.01	.04	1	3
DL 12+00E 1+80NB	1	29	6	41	.1	21	6	167	2.96	4	5	ND	7	10	1	2	15	47	.14	.02	9	65	.61	37	.18	2	2.09	.01	.07	1	3
DL 12+00E 1+70N	1	15	6	36	.1	22	5	174	2.45	2	5	ND	6	10	1	2	13	40	.17	.03	9	31	.53	42	.18	2	1.45	.01	.08	1	4
DL 12+00E 1+60N	1	8	7	27	.2	9	2	102	1.76	3	5	ND	6	19	1	2	19	44	.13	.01	11	10	.37	27	.18	2	1.16	.01	.04	1	2
DL 12+00E 1+50N	1	8	8	18	.3	9	3	100	1.96	4	5	ND	6	10	1	2	13	34	.18	.04	9	19	.29	17	.15	2	1.10	.01	.05	1	1
DL 12+00E 1+40N	1	8	8	27	.4	10	2	126	3.29	4	5	ND	5	10	1	2	9	50	.10	.05	8	25	.32	22	.19	2	1.08	.01	.05	1	2
DL 12+00E 1+30N	1	19	8	43	.1	18	8	214	3.52	6	5	ND	11	13	1	2	3	50	.22	.16	19	32	.55	40	.19	3	2.54	.01	.07	2	2
DL 12+00E 1+20N	1	9	8	32	.5	10	2	144	2.86	2	5	ND	7	10	1	2	6	51	.11	.05	9	22	.36	28	.21	2	1.18	.01	.06	1	2
DL 12+00E 1+10N	1	9	11	30	.2	12	3	130	2.14	2	5	ND	5	12	1	4	10	38	.13	.03	13	22	.35	35	.16	2	1.38	.01	.05	1	1
DL 12+00E 1+00N	1	19	21	46	.1	23	9	221	4.43	4	5	ND	11	14	1	2	11	64	.18	.07	14	36	.58	71	.23	2	2.87	.01	.09	1	2
DL 12+00E 0+90N	1	10	6	37	.1	23	7	248	2.66	2	5	ND	10	16	1	2	13	41	.51	.02	25	28	.59	57	.19	2	1.81	.02	.06	1	1
DL 12+00E 0+80N	1	17	5	39	.3	17	6	290	2.09	2	5	ND	8	14	1	2	14	30	.44	.02	17	29	.60	42	.15	4	1.22	.01	.05	1	1
DL 12+00E 0+70N	1	6	7	20	.1	8	3	154	1.34	4	5	ND	7	14	1	2	15	20	.35	.08	15	14	.30	22	.10	3	.60	.02	.05	1	1
DL 12+00E 0+60N	1	4	6	23	.1	6	2	137	1.33	2	5	ND	4	12	1	2	17	26	.22	.03	8	15	.39	16	.15	3	.68	.01	.05	1	1
DL 12+00E 0+50N	1	2	6	11	.1	5	1	68	1.10	2	5	ND	5	10	1	2	15	19	.19	.04	11	9	.16	21	.09	4	.62	.01	.04	1	2
DL 12+00E 0+40N	1	7	10	14	.1	7	2	88	2.14	3	5	ND	6	11	1	2	13	32	.22	.08	12	15	.20	23	.12	3	.84	.01	.04	1	1
DL 12+00E 0+30N	1	7	6	11	.1	9	4	179	1.95	4	5	ND	6	12	1	2	23	31	.20	.04	10	17	.37	39	.12	4	1.22	.01	.07	1	1
DL 12+00E 0+20N	1	5	4	15	.1	6	2	80	2.28	6	5	ND	4	10	1	2	21	39	.18	.08	9	19	.20	16	.14	4	.70	.01	.04	1	2
DL 12+00E 0+10N	1	7	5	22	.1	8	2	123	2.60	2	5	ND	4	10	1	3	24	50	.15	.07	8	21	.29	19	.17	3	.87	.01	.06	1	1
DL 12+00E 0+25S	1	34	2	22	.1	2	1	86	.24	2	5	ND	1	41	1	2	6	7	4.62	.05	8	7	.23	52	.01	11	.25	.01	.02	1	4
DL 12+00E 0+50S	5	14	2	20	.1	3	1	193	.16	3	5	ND	1	49	1	2	9	2	5.34	.06	2	3	.29	57	.01	14	.11	.01	.03	1	6
DL 12+00E 1+70S	1	11	7	53	.4	20	6	244	3.23	5	5	ND	9	20	1	2	7	71	.37	.03	15	49	.76	55	.31	4	1.47	.01	.09	1	1
DL 12+00E 1+80S	1	9	6	10	.2	2	1	43	.76	2	5	ND	6	10	1	2	9	16	.07	.01	11	19	.09	35	.97	2	.68	.01	.04	1	3
DL 12+00E 1+90S	1	17	11	30	.1	17	6	153	3.65	3	5	ND	10	13	1	2	7	44	.20	.08	16	34	.34	45	.15	2	2.69	.01	.04	1	2
DL 12+00E 2+00S	1	6	7	12	.1	7	1	62	2.13	2	5	ND	5	9	1	2	8	36	.12	.03	9	14	.16	14	.09	2	.87	.01	.03	1	2
DL 12+00E 2+10S	1	11	6	12	.1	3	1	47	1.13	2	5	ND	2	9	1	2	2	16	.04	.04	7	10	.06	28	.01	2	.62	.01	.02	1	95
STD C/FA-AU	21	61	41	133	7.1	68	27	1224	3.98	39	19	E	39	54	16	15	22	56	.48	.13	37	56	.88	185	.08	41	1.72	.07	.10	11	48



NORTHERN DYNASTY FILE # 85-1874

PAGE

SAMPLE#	Hg PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Mn PPM	Co PPM	Ni PPM	Fe %	As PPM	U PPM	Mo PPM	Ti PPM	Sr PPM	Ca PPM	Sb PPM	B PPM	V PPM	Cr %	P %	La PPM	Ce PPM	Mg %	Ba PPM	Li %	K %	Al %	Na %	Si %	M PPM	Am PPM
DL 12+00E 2+20S	4	18	17	31	.1	12	3	175	4.87	7	5	ND	5	6	1	5	2	55	.06	.04	6	30	.38	21	.10	3	1.83	.01	.03	1	8
DL 12+00E 2+30S	4	8	14	16	.1	4	1	133	3.40	11	5	ND	2	2	1	2	2	33	.02	.02	2	7	.10	15	.01	2	.78	.01	.01	1	12
DL 12+00E 2+40S	1	8	7	22	.1	11	3	118	1.49	2	5	ND	2	8	1	2	2	41	.13	.01	7	27	.37	19	.15	3	.90	.01	.01	1	5
DL 12+00E 2+50S	1	6	4	16	.2	7	3	94	1.20	2	5	ND	4	8	1	2	2	24	.21	.04	8	15	.25	19	.09	2	.72	.01	.03	1	7
DL 12+00E 2+60S	1	7	4	16	.1	6	2	67	1.17	2	5	ND	4	7	1	2	2	29	.14	.03	9	15	.20	15	.10	2	.80	.01	.01	1	5
DL 12+00E 2+70S	1	11	11	25	.3	6	2	98	1.22	3	5	ND	2	6	1	2	2	41	.10	.01	7	13	.23	29	.03	2	.89	.01	.03	1	3
DL 12+00E 2+80S	1	28	15	75	.1	22	12	467	7.03	2	5	ND	2	5	1	2	4	214	.12	.04	9	43	.68	28	.03	2	2.10	.01	.01	1	4
DL 12+00E 2+90S	1	5	5	34	.1	12	5	213	3.82	2	5	ND	1	3	1	2	2	128	.07	.01	2	49	.74	19	.13	2	.96	.01	.01	1	8
DL 14+00E 3+10W	1	28	8	20	.3	9	2	91	1.18	6	5	ND	2	6	1	2	2	55	.16	.01	6	7	.18	16	.21	2	.60	.01	.03	1	2
DL 14+00E 3+20W	1	4	7	11	.1	1	1	25	.88	3	5	ND	2	7	1	2	2	31	.07	.01	7	9	.04	16	.12	2	.61	.01	.02	1	4
DL 14+00E 3+40W	1	61	15	80	.1	10	4	141	8.34	3	5	ND	3	7	1	4	2	214	.12	.07	3	44	.51	47	.15	4	2.09	.02	.03	1	11
DL 14+00E 3+50W	1	64	6	26	.1	6	2	77	3.73	7	5	ND	2	4	1	2	5	35	.04	.04	2	11	.09	20	.06	2	.53	.01	.02	1	10
DL 14+00E 3+60W	1	15	8	18	.1	14	3	70	1.73	2	5	ND	4	11	1	3	3	28	.17	.06	10	32	.27	21	.10	2	1.23	.01	.02	1	13
DL 14+00E 3+30W	1	5	7	17	.1	5	2	68	2.38	5	5	ND	3	6	1	2	3	67	.07	.01	5	33	.20	24	.17	2	.96	.01	.02	1	7
DL 14+00E 3+20W	1	15	6	36	.1	13	4	136	1.62	3	5	ND	4	8	1	2	2	32	.13	.02	8	16	.37	30	.13	2	1.09	.01	.02	1	20
DL 14+00E 3+10W	1	12	7	21	.1	12	3	102	1.46	4	5	ND	6	8	1	2	3	26	.14	.02	11	18	.31	22	.12	2	.88	.01	.03	1	25
DL 14+00E 3+00W	1	5	12	18	.2	16	2	86	1.12	5	5	ND	3	6	1	2	4	33	.09	.01	6	45	.32	12	.17	2	.70	.01	.03	1	18
DL 14+00E 2+90W	1	8	15	23	.3	10	3	111	1.73	5	5	ND	6	7	1	3	4	41	.13	.02	9	17	.34	18	.18	2	.97	.01	.03	1	8
DL 14+00E 2+80W	1	41	13	28	.2	46	8	131	2.23	7	5	ND	4	7	1	2	2	47	.10	.01	8	22	.37	23	.16	3	1.27	.01	.03	1	6
DL 14+00E 2+70W	1	25	8	21	.1	25	7	176	2.08	5	5	ND	12	11	1	2	2	29	.42	.03	31	23	.28	65	.10	3	1.52	.01	.03	1	15
DL 14+00E 2+60W	1	67	14	43	.3	27	16	690	4.00	2	5	ND	15	15	1	2	2	64	.46	.03	37	45	.35	98	.14	3	2.17	.01	.04	1	6
DL 14+00E 2+50W	1	13	10	32	.1	13	7	376	2.22	2	5	ND	6	9	1	2	2	45	.24	.02	13	22	.35	47	.13	3	1.10	.01	.03	1	10
DL 14+00E 2+40W	1	33	16	57	.3	24	16	715	3.73	6	5	ND	13	13	1	3	2	62	.36	.04	29	35	.54	65	.16	4	1.64	.02	.04	1	22
DL 14+00E 2+30W	1	11	7	18	.1	9	3	105	1.19	6	5	ND	4	8	1	2	2	21	.22	.03	11	15	.25	28	.08	2	.70	.01	.02	1	25
DL 14+00E 2+20W	1	33	6	7	.8	13	10	1455	.99	6	5	ND	9	63	1	2	2	10	4.71	.17	81	8	.21	137	.01	6	.99	.01	.01	1	8
DL 14+00E 2+00W	1	9	2	36	.1	2	1	15	.18	6	5	ND	1	51	1	4	2	3	3.43	.08	2	2	.22	71	.01	5	.19	.01	.01	1	19
DL 14+00E 1+80W	1	83	5	8	.3	11	1	292	.20	2	5	ND	1	17	1	2	2	7	6.06	.12	26	3	.26	96	.01	15	.38	.01	.01	1	25
DL 14+00E 1+60W	1	70	7	17	.3	8	1	59	.16	2	5	ND	2	52	1	2	2	4	4.86	.07	18	2	.20	71	.01	9	.30	.01	.01	1	10
DL 14+00E 1+40W	1	41	7	18	.2	9	1	154	.39	2	5	ND	3	66	1	2	2	4	5.32	.16	19	4	.22	107	.01	27	.53	.01	.01	1	50
DL 14+00E 1+20W	2	18	5	16	.1	10	6	2147	.28	2	5	ND	2	69	1	2	2	5	5.90	.12	7	1	.23	127	.01	13	.29	.02	.01	1	55
DL 14+00E 1+00W	1	7	11	6	.1	1	1	31	.25	5	5	ND	2	7	1	2	2	10	.09	.01	9	6	.02	30	.04	2	.28	.01	.01	1	7
DL 14+00E 0+90W	1	21	12	23	.1	22	7	184	1.53	5	5	ND	6	18	1	2	2	26	.49	.04	20	21	.37	43	.09	2	1.02	.01	.02	1	5
DL 14+00E 0+80W	1	5	5	10	.1	8	2	59	1.11	4	5	ND	4	8	1	2	2	19	.18	.06	10	13	.15	15	.06	2	.81	.01	.02	1	6
DL 14+00E 0+70W	1	5	6	10	.1	7	3	74	1.06	4	5	ND	5	8	1	2	2	17	.20	.07	11	17	.15	15	.07	2	.85	.01	.01	1	6
DL 14+00E 0+60W	1	3	8	10	.2	5	1	48	1.94	6	5	ND	3	6	1	2	2	53	.07	.02	6	16	.12	22	.16	2	1.15	.01	.01	1	2
DL 14+00E 0+50W	1	4	9	8	.2	2	1	37	.97	5	5	ND	4	6	1	3	2	28	.05	.01	7	10	.08	22	.06	2	.64	.01	.02	1	3
STD C/FA-AU	21	58	35	138	7.0	66	27	1199	3.99	40	16	8	37	52	17	15	19	61	.48	.15	41	60	.88	180	.06	38	1.72	.06	.10	12	49

NORTHERN DYNASTY FILE W 85-1874

Page 5

SAMPLE	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Tl	Sr	Cd	Sb	Bi	V	Ca	F	La	Cr	Hg	Ba	Pi	B	Al	Na	K	PPM	
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	1	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	1	1	PPM	PPM	1	PPM	1	PPM	1	1	1	PPM	
DL 14-00E 0+10M	1	9	8	18	.1	13	3	85	2.34	3	6	ND	7	9	1	2	2	31	.13	.07	7	25	.26	33	.11	3	1.84	.01	.03	1	1
DL 14-00E 0+30M	1	7	13	28	.1	8	2	105	3.11	5	5	ND	5	9	1	2	2	63	.12	.15	9	30	.25	36	.14	2	2.70	.01	.03	1	1
DL 14-00E 0+20M	1	6	11	18	.1	6	1	75	3.16	6	5	ND	4	9	1	2	2	56	.11	.12	7	23	.18	23	.15	2	1.57	.01	.05	1	1
DL 14-00E 0+10H	1	7	6	13	.1	4	1	62	1.81	6	5	ND	5	8	1	2	2	34	.09	.05	8	18	.12	27	.10	2	1.22	.01	.03	1	1
DL 14-00E 0+00M	1	4	4	16	.1	5	1	84	1.73	6	5	ND	3	8	1	2	2	29	.06	.04	7	15	.15	21	.10	2	1.78	.01	.03	1	1
DL 14-00E 0+10S	1	4	2	13	.3	4	1	55	1.72	2	7	ND	5	9	1	2	5	34	.10	.03	7	17	.11	30	.11	2	1.23	.01	.04	1	1
DL 14-00E 0+20S	1	4	4	11	.1	3	1	50	1.90	7	6	ND	4	7	1	2	3	38	.09	.05	6	17	.11	15	.12	3	1.18	.01	.04	1	2
DL 14-00E 0+30S	1	4	5	13	.1	8	2	60	1.84	3	5	ND	5	9	1	2	6	26	.10	.04	7	17	.14	29	.09	3	1.34	.01	.04	1	1
DL 14-00E 0+40S	1	4	2	17	.1	10	2	67	1.76	3	5	ND	4	8	1	2	4	28	.10	.04	6	18	.15	27	.10	2	1.26	.01	.03	1	2
DL 14-00E 0+50S	1	5	2	20	.1	10	1	109	1.76	7	7	ND	3	8	1	2	4	34	.10	.05	7	28	.15	26	.11	3	1.05	.01	.03	1	7
DL 14-00E 0+60S	1	12	6	39	.1	15	5	139	3.14	6	5	ND	6	11	1	2	4	55	.15	.12	9	30	.36	47	.17	5	1.96	.01	.06	1	8
DL 14-00E 0+70S	1	5	3	21	.1	9	2	71	1.82	5	5	ND	4	9	1	2	3	30	.12	.03	8	19	.19	32	.13	5	1.25	.01	.04	1	3
DL 14-00E 0+80S	1	8	2	15	.1	11	4	74	1.59	4	5	ND	3	9	1	2	4	20	.17	.05	9	18	.17	25	.09	3	1.57	.01	.02	1	1
DL 14-00E 0+90S	1	8	7	24	.1	12	4	78	2.14	6	6	ND	8	9	1	2	2	32	.13	.05	8	21	.21	44	.12	4	1.65	.01	.03	1	1
DL 14-00E 1+00S	1	5	4	21	.1	6	1	59	1.99	2	5	ND	5	7	1	2	2	41	.08	.02	7	17	.16	19	.12	3	1.29	.01	.03	1	1
DL 14-00E 1+10S	1	13	5	35	.3	4	1	205	.27	2	9	ND	4	14	1	2	2	5	4.75	.06	4	4	.26	75	.01	10	.34	.01	.01	1	1
DL 14-00E 1+30S	2	6	2	27	.1	3	1	213	.17	2	5	ND	1	18	1	2	2	6	4.48	.06	2	4	.30	62	.01	16	.20	.01	.01	1	21
DL 14-00E 1+50S	3	5	2	24	.3	3	1	161	.12	2	8	ND	3	11	1	2	2	4	3.99	.05	2	1	.27	48	.01	13	.14	.01	.01	1	26
DL 14-00E 1+70S	2	7	2	29	.5	2	1	97	.16	2	5	ND	4	15	1	2	2	2	4.23	.06	2	3	.27	58	.01	13	.14	.01	.01	1	1
DL 14-00E 2+00S	1	8	3	38	.1	14	4	208	2.08	3	5	ND	1	5	1	2	2	23	.05	.01	4	6	.26	29	.01	2	.99	.01	.02	1	29
DL 14-00E 2+90S	51	13	16	72	.1	17	6	630	6.22	4	5	ND	1	4	1	5	2	51	.02	.01	4	13	.37	69	.03	2	1.30	.01	.02	1	17
DL 14-00E 3+00S	1	14	14	54	.5	26	7	187	2.19	6	5	ND	5	13	1	2	2	26	.23	.03	28	35	.79	46	.01	2	1.51	.01	.01	1	2
DL 14-00E 3+10S	1	10	24	93	.1	34	13	561	2.60	4	5	ND	4	32	1	2	2	34	.80	.08	19	56	.48	67	.01	2	1.68	.01	.03	1	5
DL 14-00E 3+20S	1	15	6	22	.3	13	4	97	1.91	2	8	ND	5	9	1	2	2	28	.14	.04	11	20	.26	29	.10	5	1.12	.01	.04	1	3
DL 14-00E 3+30S	1	6	3	23	.2	7	2	111	1.26	3	5	ND	6	12	1	6	2	24	.30	.06	13	18	.25	16	.10	3	.54	.01	.04	1	3
DL 14-00E 3+40S	1	12	7	33	.1	11	2	154	1.86	3	5	ND	3	8	1	3	2	81	.16	.02	7	19	.30	40	.12	2	.78	.01	.02	1	1
DL 14-00E 3+50S	1	26	18	52	.3	29	8	264	3.19	5	6	ND	4	8	1	2	3	88	.18	.02	7	92	.95	43	.12	2	1.48	.01	.03	1	27
DL 14-00E 3+60S	1	8	6	25	.3	7	1	84	1.10	5	5	ND	3	9	1	2	2	31	.12	.01	8	14	.24	21	.13	2	.67	.01	.03	1	8
DL 14-00E 3+70S	1	42	10	92	.1	42	22	1386	7.39	2	5	ND	1	7	1	2	2	204	.34	.02	2	79	1.83	35	.29	2	2.52	.01	.03	1	1
DL 14-00E 3+80H	1	9	12	30	.4	5	1	99	2.86	5	9	ND	7	9	1	2	2	66	.09	.04	8	21	.17	30	.22	3	.90	.01	.04	1	2
DL 14-00E 3+40H	1	69	6	32	.1	19	8	141	3.43	4	5	ND	3	7	1	2	2	104	.10	.03	4	16	.82	24	.27	22	1.36	.01	.05	1	7
DL 14-00E 3+30H	1	102	7	29	.1	14	3	113	2.38	3	5	ND	5	8	1	3	2	37	.13	.04	11	21	.34	25	.13	5	1.90	.01	.03	1	14
DL 14-00E 3+20H	1	32	12	32	.1	22	5	148	2.90	4	5	ND	6	11	1	2	2	48	.22	.06	15	24	.43	29	.16	4	1.64	.01	.03	10	6
DL 14-00E 3+10H	1	16	5	17	.2	1	1	72	4.24	6	5	ND	2	3	1	2	2	34	.02	.03	6	4	.05	13	.05	4	.33	.01	.01	1	21
DL 14-00E 3+00H	1	6	5	10	.1	3	1	41	.87	3	5	ND	4	6	1	2	2	36	.06	.01	6	14	.08	15	.15	2	.44	.01	.01	1	2
DL 14-00E 2+90H	1	14	5	28	.1	13	3	98	1.59	5	5	ND	6	8	1	2	2	33	.14	.02	11	17	.30	21	.13	4	1.14	.01	.01	1	3
STD C-7A AU	20	59	39	136	6.9	71	27	1196	5.98	36	15	8	38	53	17	16	21	61	.46	.13	37	81	.88	182	.08	40	1.72	.06	.08	11	52

NORTHERN DYNASTY FILE # BS-1874

PAGE 14

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	Al	U	Au	Tl	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	M	Mu
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
DL 16+00E 2+80N	1	43	8	37	.6	23	6	206	2.87	2	5	ND	4	3	1	6	2	123	.10	.02	6	76	.76	36	.28	4	1.31	.01	.03	2	4
DL 16+00E 2+70N	3	231	8	40	.1	82	26	427	2.97	3	5	ND	10	14	1	6	2	62	1.03	.07	26	58	.26	54	.08	4	4.87	.01	.04	1	16
DL 16+00E 2+60N	2	39	5	54	.3	27	8	456	3.03	2	5	ND	15	18	1	2	2	51	.58	.04	24	32	.64	105	.21	9	1.70	.02	.14	1	5
DL 16+00E 2+50N	1	21	8	29	.1	20	8	196	1.83	6	5	ND	8	11	1	3	2	28	.33	.02	15	20	.36	44	.12	5	1.12	.01	.03	1	6
DL 16+00E 2+40N	1	41	5	14	.3	53	3	123	.27	4	6	ND	3	46	1	2	2	3	5.23	.07	3	5	.09	61	.01	10	.30	.01	.03	2	26
DL 16+00E 2+30N	1	18	5	21	.5	25	4	280	.25	6	5	ND	5	44	1	2	2	2	4.99	.06	2	4	.09	55	.01	11	.20	.01	.02	1	10
DL 16+00E 2+20N	2	17	13	29	.4	30	16	339	.96	3	5	ND	6	52	1	3	2	4	5.55	.11	2	3	.10	126	.01	14	.25	.01	.03	1	36
DL 16+00E 2+10N	1	10	6	13	.1	17	1	428	.30	3	5	ND	5	49	1	2	2	2	5.88	.07	2	1	.10	56	.01	14	.17	.01	.02	1	6
DL 16+00E 2+00N	1	9	9	20	.2	10	1	45	.25	2	5	ND	6	62	1	2	2	3	6.38	.08	2	4	.13	76	.01	12	.20	.02	.04	1	1
DL 16+00E 1+50N	1	4	16	29	.2	1	1	163	.21	7	5	ND	1	30	1	2	2	2	1.41	.06	2	1	.11	34	.01	4	.12	.01	.05	1	16
DL 16+00E 1+25N	1	3	10	23	.1	1	1	34	.11	4	5	ND	1	18	1	2	4	1	.57	.06	2	3	.05	25	.01	6	.13	.04	.05	1	16
DL 16+00E 1+00N	1	5	4	24	.4	2	1	36	.33	2	5	ND	3	45	1	2	2	2	1.50	.05	2	2	.09	51	.01	4	.18	.02	.05	1	8
DL 16+00E 0+90N	1	13	5	13	.2	4	2	42	.48	3	6	ND	3	60	1	2	2	6	3.72	.07	11	7	.11	74	.01	5	.41	.01	.05	1	4
DL 16+00E 0+80N	1	14	9	18	.3	5	1	230	.48	2	5	ND	5	48	1	2	2	5	4.74	.10	20	4	.14	75	.01	6	.43	.01	.03	1	1
DL 16+00E 0+70NA	1	50	6	41	.1	15	3	394	.67	2	5	ND	7	63	1	2	2	7	4.95	.07	41	12	.18	150	.01	6	.86	.01	.03	1	1
DL 16+00E 0+70NB	1	13	9	58	.4	20	4	239	2.85	2	3	ND	4	11	1	2	5	79	.15	.02	6	109	1.57	159	.35	2	1.83	.01	.52	1	1
DL 16+00E 0+60N	1	7	9	22	.4	8	1	185	1.28	4	5	ND	2	8	1	2	2	54	.14	.01	6	19	.28	26	.21	2	.68	.02	.04	1	10
DL 16+00E 0+50N	1	9	3	28	.1	12	4	123	1.62	4	5	ND	6	12	1	2	2	26	.36	.07	17	18	.32	29	.11	5	.90	.01	.05	1	1
DL 16+00E 0+40N	1	11	7	19	.1	3	1	24	.30	2	5	ND	1	39	1	2	2	3	1.71	.06	6	8	.11	80	.02	5	.33	.03	.01	1	1
DL 16+00E 0+30N	1	18	5	13	.4	5	1	90	.56	2	5	ND	8	74	1	2	2	5	5.76	.08	26	5	.20	132	.01	10	.59	.01	.01	1	4
DL 16+00E 0+20N	1	35	7	16	.5	10	1	71	.46	2	5	ND	7	86	1	2	2	9	5.75	.07	15	6	.12	135	.01	7	.62	.02	.01	1	4
DL 16+00E 0+10N	1	36	9	49	.3	13	1	31	.54	4	5	ND	6	68	1	2	2	5	5.81	.10	13	8	.08	124	.01	9	.65	.02	.02	2	10
DL 16+00E 0+00N	3	80	10	131	.1	62	24	506	5.33	5	5	ND	8	23	1	2	4	67	.50	.02	17	86	1.84	66	.22	4	3.32	.03	.18	3	26
DL 16+00E 0+10S	1	17	8	32	.2	18	5	123	2.77	3	5	ND	6	8	1	2	2	44	.13	.03	12	39	.42	28	.16	4	1.73	.01	.03	1	3
DL 16+00E 0+20S	1	14	9	24	.1	10	3	102	1.53	4	5	ND	5	10	1	2	2	27	.21	.06	17	17	.25	24	.10	7	1.05	.01	.03	1	3
DL 16+00E 0+30S	1	15	9	27	.2	13	3	102	1.67	3	5	ND	4	9	1	2	2	30	.18	.05	15	23	.33	17	.10	4	1.11	.01	.03	1	2
DL 16+00E 0+40S	1	7	9	27	.1	5	1	103	.86	6	5	ND	2	3	1	2	2	19	.03	.01	7	15	.26	27	.03	2	.94	.01	.03	1	2
DL 16+00E 0+50S	1	9	10	29	.2	12	2	121	2.01	6	5	ND	4	8	1	3	5	44	.11	.02	10	29	.34	23	.15	2	1.52	.01	.05	1	11
DL 16+00E 0+60S	1	16	11	32	.2	23	9	111	2.62	5	5	ND	9	10	1	1	2	40	.14	.05	14	32	.31	55	.13	3	2.36	.01	.04	1	6
DL 16+00E 0+70S	1	24	9	45	.4	20	7	195	2.95	9	5	ND	6	13	1	2	10	52	.22	.05	14	31	.57	63	.17	7	1.60	.01	.07	1	33
DL 16+00E 0+80S	1	12	9	45	.1	13	2	134	1.48	5	5	ND	3	11	1	2	9	26	.12	.02	7	19	.57	27	.12	2	.98	.01	.06	5	15
DL 16+00E 0+90S	1	6	3	13	.1	3	1	45	.77	3	5	ND	4	8	1	2	13	19	.09	.01	9	10	.12	14	.08	2	.58	.01	.04	1	18
DL 16+00E 1+00S	1	28	8	50	.2	31	9	218	2.94	8	5	ND	2	8	1	2	10	50	.14	.02	12	65	.71	30	.15	3	1.66	.01	.06	1	14
DL 16+00E 1+10S	1	6	5	16	.1	8	2	61	1.10	4	5	ND	6	9	1	2	8	21	.18	.04	13	15	.18	21	.09	4	.87	.02	.04	1	1
DL 16+00E 1+20S	1	9	9	30	.2	13	6	123	1.74	8	5	ND	5	11	1	5	3	34	.16	.02	13	25	.32	50	.13	3	1.47	.01	.05	1	1
DL 16+00E 1+30S	1	9	6	42	.2	15	4	180	1.85	4	5	ND	3	10	1	2	4	44	.14	.02	9	27	.52	25	.17	4	1.02	.01	.05	2	2
STD C/FA-AU	21	59	41	136	7.0	65	27	1175	3.99	39	18	8	39	52	16	15	21	61	.48	.13	38	58	.88	179	.08	39	1.72	.06	.11	12	51

NORTHERN DYNASTY FILE # B5-1874

PAGE

SAMPLED	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Tl PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Er PPM	Hg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	M PPM	Au** PPM
DL 18+00E 1+40S	1	11	9	35	.2	15	6	217	1.97	4	5	ND	5	13	1	2	2	33	.26	.02	12	22	.47	48	.16	2	1.14	.01	.05	1	40
DL 18+00E 1+50S	1	6	5	25	.1	8	2	152	1.14	5	5	ND	4	12	1	2	2	25	.24	.01	6	11	.33	31	.13	2	.75	.01	.04	1	20
DL 18+00E 1+60S	1	9	6	20	.1	12	3	95	1.29	8	5	ND	3	11	1	3	2	74	.22	.03	12	18	.28	35	.11	2	.95	.01	.03	1	4
DL 18+00E 1+70S	1	4	5	10	.2	6	1	48	.59	2	5	ND	3	8	1	2	2	16	.11	.01	7	8	.14	14	.09	2	.47	.01	.01	1	4
DL 18+00E 1+80S	1	18	5	15	.3	6	4	235	.82	2	5	ND	5	64	1	2	2	6	2.93	.08	49	10	.23	101	.02	5	.81	.01	.03	1	6
DL 18+00E 1+90S	1	22	2	9	.2	8	3	199	.57	3	6	ND	3	68	1	2	2	6	3.95	.09	47	7	.23	106	.01	3	.58	.01	.01	1	8
DL 18+00E 2+00S	1	14	2	8	.2	4	1	93	.31	2	5	ND	1	60	1	2	2	3	3.67	.06	32	6	.20	79	.01	4	.49	.01	.01	1	16
DL 18+00E 2+10S	1	18	5	20	.5	6	2	303	.31	4	8	ND	1	88	1	2	2	5	6.01	.08	19	5	.31	115	.01	9	.45	.01	.02	1	12
DL 18+00E 2+20S	1	5	2	13	.3	2	1	76	.12	2	7	ND	1	61	1	2	2	2	4.37	.06	2	1	.28	56	.01	8	.15	.02	.01	1	6
DL 18+00E 3+40S	1	14	8	41	.1	12	5	658	1.55	2	5	ND	6	20	1	3	2	25	.78	.08	24	24	.32	68	.07	2	1.04	.01	.06	1	12
DL 18+00E 0+90M	1	6	16	31	.1	2	1	345	.17	2	7	ND	1	40	1	3	2	4	3.55	.04	2	3	.12	36	.01	8	.17	.01	.01	1	12
DL 18+00E 0+80M	1	2	2	8	.2	1	1	21	.20	5	5	ND	1	21	1	2	2	1	1.16	.04	2	3	.05	30	.01	2	.13	.01	.01	1	14
DL 18+00E 0+70M	1	7	30	40	.1	3	1	34	.28	5	5	ND	1	15	1	2	3	4	.44	.07	2	2	.05	51	.01	2	.26	.01	.06	1	1
DL 18+00E 0+60M	1	3	2	11	.1	1	1	46	.22	3	5	ND	2	15	1	2	2	1	.50	.04	2	1	.03	25	.01	2	.11	.01	.02	1	6
DL 18+00E 0+50M	1	4	6	14	.1	1	1	48	.42	3	5	ND	1	17	1	2	4	1	.65	.06	2	3	.03	38	.01	2	.14	.01	.02	1	10
DL 18+00E 0+40M	4	31	14	46	.1	26	6	192	3.80	6	5	ND	2	19	1	2	2	110	.12	.03	5	130	1.00	53	.33	2	1.65	.01	.08	1	20
DL 18+00E 0+30M	5	54	8	65	.1	48	16	269	3.41	8	5	ND	2	5	1	2	4	31	.07	.03	4	25	.59	29	.04	2	1.19	.01	.03	1	55
DL 18+00E 0+20M	1	15	5	16	.3	5	3	46	.63	3	5	ND	2	21	1	2	2	4	.91	.09	8	4	.06	42	.02	2	.25	.01	.04	1	6
DL 18+00E 0+10M	1	11	2	11	.2	4	1	19	.23	5	5	ND	1	31	1	2	2	5	2.18	.06	2	4	.07	32	.01	2	.31	.01	.02	1	16
DL 18+00E 0+00M	1	7	2	15	.1	2	1	43	.34	2	6	ND	1	36	1	2	2	3	2.12	.07	2	4	.07	32	.01	2	.22	.01	.04	1	10
DL 18+00E 0+10S	1	7	2	23	.1	2	1	74	.40	4	6	ND	1	30	1	2	2	4	1.93	.06	2	4	.08	41	.01	5	.18	.01	.03	1	22
DL 18+00E 0+20S	1	7	3	23	.2	2	1	71	.39	3	8	ND	2	29	1	2	2	4	1.87	.06	2	6	.08	39	.01	3	.17	.01	.04	1	44
DL 18+00E 0+30S	1	10	2	18	.1	3	4	269	.40	4	5	ME	1	36	1	2	2	4	2.18	.11	6	6	.10	50	.01	4	.28	.01	.01	1	46
DL 18+00E 0+40S	2	13	7	12	.1	4	23	2140	1.32	7	5	ND	1	45	1	4	2	16	2.50	.18	12	10	.12	81	.01	3	.49	.01	.02	1	12
DL 18+00E 0+50S	1	6	5	23	.1	8	2	162	1.58	3	5	ND	1	8	1	2	9	37	.09	.02	3	25	.23	28	.08	2	.52	.01	.03	1	3
DL 18+00E 0+60S	4	18	8	40	.1	22	8	300	3.36	4	5	ND	5	8	1	2	3	73	.20	.01	8	40	.85	36	.14	2	1.59	.01	.05	1	10
DL 18+00E 0+70S	1	42	5	26	.1	40	10	146	2.45	4	5	ND	8	10	1	6	2	34	.20	.04	15	62	.43	36	.14	4	1.92	.01	.05	1	5
DL 18+00E 0+80S	1	9	9	15	.1	8	1	58	1.53	7	5	ND	5	7	1	2	2	49	.08	.01	7	14	.22	21	.16	2	.85	.01	.03	1	22
DL 18+00E 0+90S	2	41	15	37	.1	16	4	161	4.12	2	5	ND	6	4	1	4	2	56	.05	.03	10	60	.39	29	.10	2	2.82	.01	.02	1	15
DL 18+00E 1+00S	1	8	5	10	.1	4	1	43	.61	2	5	ND	2	6	1	2	2	16	.07	.01	8	10	.12	14	.06	2	.72	.01	.01	1	2
DL 18+00E 1+10S	1	11	9	15	.1	5	1	58	2.53	4	5	ND	3	7	1	3	2	50	.07	.03	9	16	.13	18	.12	3	.81	.01	.01	1	2
DL 18+00E 1+20S	1	19	13	37	.1	14	4	210	2.83	6	5	ND	5	11	1	2	2	66	.12	.05	9	24	.42	46	.23	3	1.24	.01	.06	1	6
DL 18+00E 1+30S	1	13	11	42	.1	14	4	197	2.94	4	5	ND	5	9	1	2	2	81	.11	.02	6	24	.50	44	.29	2	1.26	.01	.05	1	2
DL 18+00E 1+40S	1	23	11	36	.1	14	5	178	3.01	2	5	ND	4	9	1	2	2	64	.12	.02	10	35	.49	37	.21	2	1.31	.01	.04	1	15
DL 18+00E 1+50S	3	17	10	37	.1	5	2	114	1.60	9	5	ND	3	8	1	4	2	31	.09	.02	8	12	.15	52	.03	2	.74	.01	.02	1	4
DL 18+00E 1+60S	1	77	15	45	.1	10	4	226	1.89	8	5	ND	6	81	1	4	2	20	1.64	.07	48	17	.13	243	.04	2	1.33	.02	.04	1	8
STD C/FA-AU	22	60	40	137	2.0	66	27	1198	3.98	38	17	7	40	54	16	15	20	59	.48	.14	39	60	.88	183	.08	38	1.72	.06	.13	12	46

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PAGE

SAMPLES	Mo PPH	Cu PPH	Pb PPH	Zn PPH	Ag PPH	Mi PPH	Co PPH	Mn PPH	Fe %	Ni PPH	U PPH	Au PPH	Ti PPH	Sr PPH	Ca PPH	Sb PPH	Bi PPH	V PPH	Cr %	P %	La PPH	Cr PPH	Mg %	Ba PPH	Ta %	B PPH	Al %	Ka %	K %	V PPH	Mu99 PPH
DL 18+00E 1+70S	1	34	3	39	.1	7	2	67	.44	2	5	ND	4	64	1	2	2	10	1.26	.04	27	10	.12	167	.03	2	.47	.01	.03	1	24
DL 18+00E 3+30S	1	17	2	31	.1	10	5	1050	1.38	2	5	ND	7	10	1	2	2	22	.36	.05	27	14	.30	59	.08	2	.83	.01	.02	1	1
DL 18+00E 3+50S	1	9	5	30	.1	12	5	241	1.57	2	5	MG	4	14	1	2	5	29	.53	.04	22	21	.23	64	.00	2	1.28	.01	.04	1	3
DL 18+00E 3+60S	1	5	4	25	.1	7	3	117	1.05	2	5	ND	3	14	1	2	2	28	.16	.02	8	12	.36	25	.15	2	.76	.01	.05	1	3
DL 18+00E 3+70S	1	5	6	24	.1	6	2	124	1.05	2	5	ND	4	15	1	2	2	29	.14	.02	8	27	.45	23	.15	2	.67	.01	.12	1	1
DL 8+7SE DL	1	7	8	33	.1	10	3	132	3.10	2	5	ND	6	7	1	2	3	45	.31	.13	9	32	.23	34	.11	2	2.20	.01	.05	1	1
DL 9+6SE DL	1	7	3	22	.1	10	2	83	2.41	2	5	ND	4	6	1	2	11	31	.10	.11	8	25	.19	24	.09	3	2.13	.01	.05	1	1
DL 9+2SE DL	1	6	9	21	.1	8	1	88	2.08	2	5	ND	5	7	1	2	4	32	.10	.08	7	18	.21	23	.12	2	1.62	.01	.05	1	3
DL 9+50E DL	1	6	6	24	.1	9	2	83	2.71	2	5	ND	4	7	1	2	11	46	.09	.08	6	24	.21	29	.13	6	1.47	.01	.04	1	2
DL 9+7SE DL	1	13	4	21	.1	10	2	105	2.79	5	5	ND	7	2	1	2	9	45	.17	.10	9	30	.23	22	.13	2	1.20	.01	.04	1	1
DL 10+2SE DL	1	37	2	28	.3	18	6	525	1.80	2	6	ND	6	34	1	2	2	37	2.60	.07	47	45	.57	72	.05	6	1.23	.01	.03	2	4
DL 10+50E DL	1	13	4	23	.1	10	3	184	1.37	2	5	ND	6	12	1	2	2	24	.40	.03	36	18	.28	45	.09	2	.84	.01	.03	1	1
DL 10+7SE DL	1	13	2	20	.1	10	4	159	1.47	2	5	ND	4	14	1	2	2	24	.63	.05	29	19	.24	52	.07	2	1.14	.01	.02	1	1
DL 11+00E DL.A	1	6	6	25	.2	8	3	110	1.35	2	5	ND	8	10	1	4	2	28	.26	.02	14	15	.29	36	.12	4	.90	.01	.05	1	2
DL 11+00E DL.B	1	20	36	43	.1	7	4	707	1.02	2	6	ND	7	45	1	2	2	19	2.51	.08	40	11	.28	134	.04	6	.76	.01	.07	1	1
DL 11+2SE DL	1	7	5	16	.4	10	3	81	1.83	2	5	ND	5	8	1	2	2	34	.17	.04	9	17	.21	23	.11	4	1.06	.01	.04	1	2
DL 11+50E DL	1	28	6	41	.1	23	10	192	2.64	2	5	ND	8	11	1	2	2	47	.30	.05	15	24	.59	52	.14	5	1.58	.01	.05	1	1
DL 11+7SE DL	1	9	2	22	.1	12	3	110	1.49	2	5	ND	3	8	1	2	2	32	.14	.02	9	22	.32	25	.13	3	.85	.01	.03	1	1
DL 12+00E DL	1	7	2	31	.1	10	3	149	2.21	2	5	ND	3	9	1	6	2	53	.12	.03	8	24	.40	25	.18	2	1.07	.01	.07	1	1
DL 12+2SE DL	1	29	2	27	.2	9	2	93	.72	2	7	ND	4	45	1	2	2	9	3.71	.07	12	6	.24	76	.02	5	.59	.01	.01	1	6
DL 12+50E DL	1	49	2	51	.1	7	1	131	.24	2	6	ND	2	56	1	2	2	4	6.12	.09	18	4	.26	78	.01	14	.26	.01	.01	1	80
DL 12+7SE DL	1	34	3	64	.1	6	1	161	.17	2	6	ND	2	50	1	5	2	14	5.50	.09	7	1	.26	75	.01	17	.26	.01	.01	1	22
DL 13+00E DL	1	19	2	16	.2	5	1	161	.36	2	9	ND	3	38	1	2	2	4	3.39	.07	17	5	.17	64	.01	9	.33	.01	.02	1	6
DL 13+2SE DL	1	10	2	27	.1	13	5	122	1.51	2	5	ND	5	11	1	2	4	27	.23	.04	18	20	.33	44	.13	2	1.07	.01	.04	1	2
DL 13+50E DL	1	11	4	20	.1	13	4	99	2.01	2	5	ND	6	7	1	2	2	31	.12	.04	10	21	.28	32	.12	2	1.41	.01	.05	1	3
DL 13+7SE DL	1	6	2	15	.1	6	2	64	1.87	2	5	ND	6	6	1	3	2	34	.09	.04	9	21	.15	21	.10	2	1.07	.01	.03	1	5
DL 14+2SE DL	1	8	2	11	.1	9	2	70	1.66	2	5	ND	3	8	1	2	2	27	.16	.07	8	19	.15	18	.09	2	1.25	.01	.02	1	3
DL 14+50E DL	1	9	2	12	.1	10	3	75	1.28	2	5	ND	7	8	1	5	2	22	.15	.04	10	19	.18	19	.09	2	.96	.01	.02	1	2
DL 14+7SE DL	1	20	2	34	.1	27	8	203	2.94	2	5	ND	4	10	1	2	2	52	.16	.06	8	31	.61	50	.15	6	1.77	.01	.07	1	13
DL 15+00E DL	1	9	7	22	.1	12	4	85	1.63	2	5	ND	4	8	1	2	6	36	.11	.02	9	19	.23	37	.13	2	1.22	.01	.04	1	5
DL 15+2SE DL	1	15	2	16	.2	8	3	62	1.07	2	5	ND	5	22	1	4	2	18	.91	.04	17	12	.17	53	.06	2	.76	.01	.05	1	7
DL 15+50E DL	1	9	4	16	.1	7	1	59	1.00	2	5	ND	2	19	1	2	2	19	1.27	.06	10	13	.17	43	.06	2	.78	.01	.03	1	3
DL 15+7SE DL	1	11	2	21	.2	10	3	89	1.62	2	5	ND	6	12	1	2	2	27	.36	.06	16	17	.19	36	.09	3	1.02	.01	.04	1	5
DL 16+2SE DL	1	14	8	24	.1	11	4	114	2.14	3	5	ND	9	9	1	2	2	37	.14	.04	13	25	.32	27	.13	3	1.91	.01	.03	1	5
DL 16+50E DL	1	38	7	51	.1	48	14	273	4.32	2	5	ND	4	9	1	2	2	109	.19	.02	13	129	1.46	26	.24	5	2.74	.02	.03	1	3
STL C/FA AU	20	61	39	140	7.0	71	28	1236	3.98	40	15	8	40	49	17	15	20	63	.48	.14	40	62	.88	186	.08	40	1.32	.07	.10	12	48

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PAGE 1

SAMPLE	MO	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	In	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	F	M	W	Mo
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH
DL 16+7SE DL	1	27	8	36	.1	32	10	198	2.67	3	5	ND	3	9	1	2	2	50	.30	.01	16	54	.69	40	.12	5	2.01	.02	.01	1	6	
DL 17+00E DL	1	10	5	33	.1	14	5	242	1.73	2	5	ND	8	13	1	2	2	30	.37	.03	17	24	.39	42	.13	6	.94	.01	.03	1	11	
DL 17+2SE DL	1	9	3	29	.4	4	1	164	.14	2	5	ND	1	39	1	2	2	3	3.42	.05	5	4	.15	55	.01	11	.22	.02	.01	1	18	
DL 17+50E DL	1	3	2	19	.1	2	1	46	.20	2	5	ND	1	13	1	3	2	2	.59	.03	3	3	.05	30	.01	3	.13	.01	.01	1	10	
DL 17+7SE DL	1	15	7	18	.1	3	1	75	.28	2	5	ND	1	30	1	2	2	5	2.31	.05	6	7	.05	37	.01	6	.30	.02	.01	2	40	
DL 18+2SE DL	1	16	2	19	.1	4	1	81	.29	2	5	ND	1	31	1	5	2	5	2.41	.05	5	6	.05	39	.01	8	.30	.02	.01	1	46	
DL 18+50E DL	2	56	9	98	.2	43	71	9006	6.18	2	5	ND	3	31	1	2	2	64	1.83	.12	36	66	1.40	213	.03	4	1.68	.01	.01	1	1	
DL 18+7SE DL	3	58	12	105	.1	40	25	1642	8.04	2	5	ND	7	11	1	2	2	175	.55	.09	18	92	2.43	95	.08	2	2.68	.01	.09	1	18	
DL 19+00E DL	1	41	27	279	.1	36	8	654	3.93	2	5	ND	2	13	1	2	2	94	.48	.04	14	97	2.15	58	.20	3	2.43	.01	.05	1	5	
DL 19+2SE DL	4	48	9	78	.3	6	70	16699	2.41	4	7	ND	4	56	1	2	2	16	3.75	.14	50	11	.12	243	.02	10	.88	.01	.03	1	1	
DL 19+50E DL	1	22	2	68	.1	9	2	270	.47	2	5	ND	1	61	1	2	2	3	4.99	.06	14	4	.11	91	.01	7	.36	.01	.01	1	14	
DL 19+7SE DL	1	16	2	72	.5	4	2	204	.89	3	6	ND	1	63	1	8	2	3	4.72	.09	14	4	.10	96	.01	9	.34	.01	.02	1	10	
DL 20+00E DL	1	14	11	52	.1	29	4	314	4.15	3	5	ND	1	13	1	2	2	102	.20	.02	6	79	1.54	41	.31	2	2.87	.01	.12	1	5	
DL 20+2SE DL	1	24	2	63	.1	6	9	2283	1.84	8	5	ND	1	79	1	2	2	9	4.98	.12	14	4	.08	94	.01	10	1.40	.01	.02	1	6	
DL 20+50E DL	1	66	3	104	.1	5	8	1476	.86	4	5	ND	1	53	1	2	6	18	4.06	.11	12	7	.12	89	.01	9	.39	.01	.01	1	1	
DL 20+7SE DL	1	12	6	85	.2	3	1	469	.70	15	5	ND	1	48	1	2	5	3	3.66	.10	3	3	.14	50	.01	8	.18	.01	.03	1	10	
DL 21+00E DL	1	8	4	109	.2	2	1	217	.63	2	5	ND	1	40	1	2	3	1	3.11	.05	2	3	.11	36	.01	6	1.10	.02	.01	1	1	
DL 21+2SE DL	1	13	2	76	.4	4	1	162	.42	2	5	ND	1	47	1	2	7	1	3.39	.07	4	4	.10	54	.01	7	.17	.02	.01	1	1	
DL 21+50E DL	1	12	2	71	.1	5	1	420	.75	5	5	ND	1	64	1	2	2	2	4.66	.11	2	3	.10	71	.01	9	.18	.01	.02	1	6	
DL 21+7SE DL	1	6	3	66	.2	2	1	505	.63	2	5	ND	1	65	1	2	5	2	4.71	.10	3	2	.10	51	.01	9	.14	.02	.02	1	14	
DL 22+00E DL	1	5	2	94	.3	1	1	301	.38	3	7	ND	1	54	1	2	6	2	4.19	.07	2	1	.10	50	.01	7	.13	.01	.01	1	1	
DL 25+00E DL	2	23	8	83	.1	40	13	329	6.23	8	5	ND	3	4	1	6	7	133	.07	.03	2	85	1.07	26	.03	2	2.02	.01	.04	1	2420	
DL 25+2SE DL	1	14	2	57	.2	3	1	124	.29	5	5	ND	1	105	1	5	4	6	6.97	.07	8	5	.10	67	.01	10	.31	.01	.02	1	1	
DL 25+50E DL	2	23	10	59	.1	34	6	287	6.87	5	5	ND	1	5	1	2	2	230	.18	.02	2	75	.49	31	.18	2	1.89	.02	.04	1	345	
DL 25+60E DL	1	16	3	58	.1	16	5	217	5.17	4	5	ND	2	6	1	2	5	104	.16	.03	3	59	.33	18	.11	2	1.42	.02	.04	1	10	
DL 25+7SE DL	1	39	2	40	.2	9	2	103	.88	2	5	ND	1	87	1	2	2	7	2.46	.13	28	17	.07	82	.01	4	1.12	.01	.01	1	1	
DL 26+00E DL	2	8	2	75	.1	3	1	567	.25	2	5	ND	1	77	1	4	2	3	7.01	.06	2	5	.07	67	.01	10	.23	.01	.01	1	44	
DL 26+2SE DL	1	8	2	69	.3	2	1	237	.31	3	5	ND	1	79	1	2	2	3	7.76	.06	4	2	.10	82	.01	10	.20	.01	.01	1	14	
DL 26+50E DL	1	23	8	93	.1	52	13	582	5.35	4	5	ND	2	13	1	2	2	104	.30	.05	5	285	2.63	201	.26	2	2.74	.02	.47	1	2	
DL 26+60E DL	1	29	13	81	.1	105	16	386	5.85	3	5	ND	2	24	1	4	2	136	.35	.03	4	342	2.30	110	.30	2	2.87	.02	.04	1	8	
DL 26+7SE DL	1	45	2	24	.1	17	4	125	1.48	8	5	ND	4	14	1	2	2	27	.32	.02	18	32	.26	50	.10	4	1.11	.02	.04	1	7	
DL 27+00E DL	1	13	2	29	.1	12	3	144	1.26	5	5	ND	6	17	1	3	2	24	.35	.04	18	22	.34	26	.11	2	.83	.02	.03	1	10	
DL 27+2SE DL	1	23	2	55	.5	6	2	80	.61	5	5	ND	1	109	1	2	2	5	5.47	.10	32	6	.13	99	.01	3	.69	.02	.01	1	50	
DL 27+50E DL	1	15	8	63	.2	4	1	326	.38	3	5	ND	1	93	1	2	2	5	4.31	.10	11	3	.12	76	.01	11	.34	.02	.01	1	4	
STD C/FA-AU	21	59	39	135	7.3	71	27	1165	3.88	39	18	7	37	52	16	15	20	60	.48	.13	35	57	.87	172	.08	40	1.70	.06	.10	12	51	

NORTHERN DYNASTY FILE # 85-1874

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SAMPLE	No	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Tl	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Pi	Na	K	M	Am**
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	1	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	1	1	PPM	PPM	1	PPM	1	PPM	2	1	1	PPM	PPM
E85-S-100	4	114	20	47	.7	12	3	263	10.00	11	5	ND	2	11	1	3	2	57	.16	.06	2	29	.55	96	.18	10	.93	.01	.30	1	150
E85-S-101	8	26	15	31	.1	9	4	165	5.29	6	5	ND	2	8	1	7	6	90	.20	.03	3	20	.27	29	.29	12	.87	.01	.06	3	18
E85-S-102	1	27	17	65	.1	38	12	277	5.26	2	5	ND	4	8	1	2	10	133	.20	.04	5	242	2.52	45	.37	7	3.14	.01	.12	1	3
E85-S-103	9	67	9	55	.5	13	5	256	12.57	14	5	ND	4	3	1	8	2	96	.05	.06	8	48	.40	15	.07	20	1.27	.01	.01	3	70
E85-S-104	11	83	19	38	.3	1	1	88	18.91	3	5	VS	4	1	1	2	2	30	.01	.06	5	14	.11	5	.05	27	.76	.01	.01	2	31
E85-S-105	15	176	23	79	.1	1	1	276	25.35	5	5	ND	5	1	2	2	2	37	.01	.10	7	14	.16	6	.04	39	.70	.01	.01	5	70
E85-S-106	1	26	10	24	.2	1	1	343	7.24	5	5	ND	3	1	1	3	2	33	.04	.04	2	5	.10	15	.02	13	.37	.01	.01	1	140
E85-S-107	1	5	2	10	.1	1	1	34	2.80	2	5	ND	1	1	1	2	2	9	.01	.02	2	1	.01	4	.01	5	.07	.01	.01	1	29
S85-S-56	9	37	14	42	.1	1	1	142	13.69	2	5	ND	2	1	1	2	2	53	.01	.05	8	16	.06	12	.03	22	.44	.01	.01	4	106
S85-S-51	8	48	17	89	.4	6	2	269	14.59	17	5	ND	4	2	1	2	2	199	.07	.04	8	36	.62	21	.26	25	1.75	.01	.04	5	73
S85-S-52	10	60	19	76	.1	2	1	193	18.31	36	5	ND	3	2	1	2	2	160	.04	.04	9	35	.52	36	.33	33	1.45	.01	.08	1	56
S78 C/FA-AU	21	59	41	127	6.9	62	28	1218	4.01	39	17	7	36	47	16	15	19	82	.48	.14	38	60	.88	177	.08	40	1.72	.06	.10	12	51

NORTHERN DYNASTY FILE # 85-1874

PAGE

SAMPLE#	No PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Tl PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	S PPM	Al %	Mo %	K %	M PPM	Au <sup>197</sup> PPM
ED5-R-100	3	12	19	47	.6	16	10	376	4.16	2	5	ND	4	22	1	8	2	68	.48	.08	12	5	1.32	145	.15	6	1.54	.03	.55	6	43
ED5-R-101	1	6	9	19	.8	9	3	284	1.04	2	5	ND	7	55	1	5	2	5	.96	.09	23	1	.34	39	.01	6	.34	.06	.07	3	2
ED5-R-102	1	94	7	58	.4	25	14	225	6.31	8	5	ND	2	6	1	6	2	4	.13	.01	5	1	.07	6	.02	6	.14	.01	.03	2	25
ED5-R-102A	1	111	2	34	.3	17	6	617	7.00	2	5	ND	2	6	1	2	2	8	.24	.02	2	1	.28	4	.01	2	.74	.02	.04	2	12
ED5-R-104	1	94	2	149	.8	17	16	608	15.48	4	6	ND	5	8	1	2	2	171	.09	.04	17	45	1.44	68	.19	2	1.90	.02	.27	1	60
ED5-R-105	1	101	7	135	.4	43	41	734	11.66	2	6	ND	3	7	1	2	2	179	.21	.04	8	55	2.18	34	.16	2	2.64	.02	.27	1	27
ED5-R-106	1	166	8	121	.5	43	35	653	9.81	3	5	ND	1	12	1	2	2	154	.36	.05	6	47	2.05	53	.24	2	2.44	.04	.31	2	48
ED5-R-107	1	142	2	92	.8	39	32	512	7.83	2	5	ND	3	12	1	2	2	141	.63	.06	11	42	1.20	118	.26	9	1.69	.07	.30	1	22
ED5-R-108	1	143	2	78	.1	47	31	552	5.11	2	7	ND	2	7	1	3	2	124	.66	.05	2	37	1.38	125	.18	4	1.74	.06	.23	1	2
ED5-R-109	4	157	14	85	.1	32	44	439	11.63	2	5	ND	4	9	1	2	2	119	.47	.05	11	32	1.25	45	.19	7	1.55	.06	.21	2	9
685-R-50	1	15	8	42	.1	11	4	231	2.62	2	5	ND	6	9	1	2	2	22	.15	.06	7	20	.81	51	.13	2	1.09	.03	.30	2	3
685-R-51	1	11	2	42	.1	17	6	153	1.31	2	5	ND	3	12	1	2	4	6	.11	.04	2	2	.33	36	.02	2	.78	.03	.10	3	2
685-R-52	3	17	10	35	.3	20	3	376	4.26	7	5	ND	5	30	1	4	2	10	.33	.05	5	6	.25	27	.03	2	.76	.04	.08	2	11
685-R-53	3	215	12	177	.3	93	54	965	10.33	4	5	ND	1	17	1	2	2	142	.63	.05	18	24	2.93	505	.26	3	4.18	.06	.82	2	4
685-R-54	1	10	299	58	9.5	14	6	197	1.77	7	5	12	1	15	1	2	2	12	.27	.04	9	11	.48	41	.04	7	.47	.02	.06	18	6850
195-R-100	1	44	13	87	.2	66	27	1351	7.78	5	5	ND	1	37	1	2	2	123	3.92	.02	3	75	2.00	26	.04	2	3.03	.01	.05	1	38
STD C/FA AU	19	56	42	129	7.0	64	28	1131	3.94	34	16	7	38	49	15	15	21	58	.48	.13	40	59	.80	179	.07	38	1.72	.06	.11	11	50



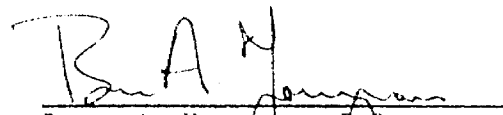
APPENDIX 5

Authors' Certifications

AUTHOR'S CERTIFICATION

I, Bruce A. Youngman, of 208 - 170 East 3rd Street, North Vancouver, British Columbia, hereby certify as follows:

1. That I graduated from the University of British Columbia with a Bachelor of Science degree in geology in 1981.
2. That I have practised my profession continually since that time.
3. That I co-authored this report based on the 1985 field program on the Dempster Lake Property.

  
Bruce A. Youngman, B.Sc.

QUAL  
2.8598

Qual  
2.8598

AUTHOR'S CERTIFICATION

I, David Wilson Tupper, of 2657 West 2nd Avenue, Vancouver, British Columbia, hereby certify as follows:

1. That I graduated from the University of British Columbia with a Bachelor of Science degree in geology in 1985.
2. That I have practised my profession continually since that time.
3. That I co-authored this report based on the 1985 field program on the Dempster Lake Property.

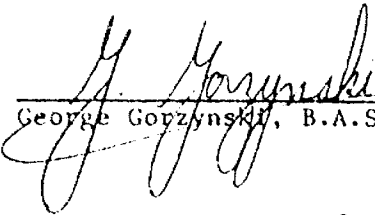
David Wilson Tupper  
David Wilson Tupper, B.Sc.

Qual.  
28598  
QUAL  
2-8598

AUTHOR'S CERTIFICATION

I, George Gorzynski, of 156 Glenholme Avenue, Toronto, Ontario,  
hereby certify as follows:

1. That I graduated from the University of Toronto with a Bachelor of Applied Science degree in geological engineering/mineral exploration in 1978.
2. That I have practised my profession continually since that time.
3. That I co-authored this report based on the 1985 field program on the Dempster Lake Property.

  
George Gorzynski, B.A.Sc.

Qual 2-8598  
Qual 2-8598



52007SW0499 52006SE0033 WRIGHT LAKE

900

File \_\_\_\_\_



Ministry of Natural Resources

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOGICAL

Township or Area WRIGHT-DUFFELL-DRUM-KAWASHE LAKES

Claim Holder(s) NORTHERN DYNASTY EXPLORATIONS LTD.

Survey Company DYNASTY EXPLORATIONS

Author of Report B. YOUNGMAN

Address of Author 844 W. HASTINGS ST, VANCOUVER B.C.

Covering Dates of Survey JUNE 21 - NOVEMBER 30, 1985  
(linecutting to office)

Total Miles of Line Cut 7.94 MILES (12.785 Km.)

MINING CLAIMS TRAVERSED  
List numerically

- Pa 816634
- (prefix) 816640 (number)
- 816641
- 816642
- 816643
- 816644
- 816645
- 816646
- 816647
- 816648
- 816649
- 816650
- 816651
- 816652
- 816653
- 816654
- 816655
- 816656
- 816657
- 816658
- 816659
- 816660

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	Geophysical	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	-Electromagnetic _____	
	-Magnetometer _____	
ENTER 20 days for each additional survey using same grid.	-Radiometric _____	
	-Other _____	
	Geological _____	
	Geochemical _____	

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Nov 30/85 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications \_\_\_\_\_

Previous Surveys			
File No.	Type	Date	Claim Holder

TOTAL CLAIMS 88

OFFICE USE ONLY

MINING CLAIMS (cont'd)

Pa

816661  
 816662  
 816663  
 816664  
 816665  
 816666  
 816667  
 816668  
 816669  
 816670  
 816671  
 816672  
 816673  
 816674  
 816675  
 816676  
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 816684  
 816685  
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 817234  
 817235  
 817236  
 817237  
 817238  
 817239  
 817443  
 817444  
 817445  
 817446  
 817447  
 817448  
 817449  
 817450  
 818228  
 818229

Pa

818230  
 818231  
 818232  
 818233  
 818234  
 818277  
 818278  
 818279  
 818280  
 818281  
 818282  
 818283  
 818284  
 818415  
 818416  
 818417  
 818418  
 818419  
 818420  
 818421  
 818422  
 818423  
 818455  
 818456

TOTAL CLAIMS: 88



**GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL  
TECHNICAL DATA STATEMENT**

**TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.**

Type of Survey(s) GEOPHYSICAL - MAGNETOMETER

Township or Area WRIGHT-DUFFELL-DRUM-KAWASHE LAKES

Claim Holder(s) NORFOLK DYNASTY EXPLORATIONS LTD

Survey Company DYNASTY EXPLORATIONS

Author of Report B. YOUNGMAN

Address of Author 844 W. HASTINGS ST. VANCOUVER BC

Covering Dates of Survey JUNE 21 - NOVEMBER 30, 1985  
(linecutting to office)

Total Miles of Line Cut 7.94 MILES (12.785 KM.)

**MINING CLAIMS TRAVERSED  
List numerically**

Pa 816639  
(prefix) (number)  
816640  
816642  
816644  
816645  
816647  
816648  
816651  
816652

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical
	- Electromagnetic _____
	- Magnetometer _____
ENTER 20 days for each additional survey using same grid.	- Radiometric _____
	- Other _____
	Geological _____
	Geochemical _____

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Nov. 30/85 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications \_\_\_\_\_

Previous Surveys			
File No.	Type	Date	Claim Holder

TOTAL CLAIMS 9

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 218 Number of Readings 218
Station interval 5-25 meters (primarily 10 m) Line spacing 100-450 meters
Profile scale
Contour interval 100 ft

Instrument SCINTRIX MFD-2 DIGITAL FLUXGATE Magnetometer
Accuracy - Scale constant +/- 10 gammas (Hand Held)
Diurnal correction method None applied
Base Station check-in interval (hours) 1-2 hours
Base Station location and value 8+50 E / 0+00 N
VALUES: 59380, 59400 gammas

MAGNETIC

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

ELECTROMAGNETIC

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

GRAVITY

Instrument
Method [ ] Time Domain [ ] Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time

RESISTIVITY

Power
Electrode array
Electrode spacing
Type of electrode





GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOPHYSICAL - ELECTROMAGNETIC  
Township or Area URICHT - DUFFELL - DRUM-KAWASHE LAKE  
Claim Holder(s) NORTHSTAR DYNASTY EXPLORATIONS LTD

Survey Company DUNLOP EXPLORATIONS  
Author of Report B. YOUNGMAN  
Address of Author 844 W. HASTINGS ST. VANCOUVER BC.  
Covering Dates of Survey JUNE 21 - NOVEMBER 30, 1985  
(linecutting to office)  
Total Miles of Line Cut 7.94 MILES (12.735 KM.)

MINING CLAIMS TRAVERSED  
List numerically

Pa 816639 (prefix) (number)  
816640  
816642  
816644  
816645  
816647  
816648

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	Geophysical	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	-Electromagnetic _____	
	-Magnetometer _____	
ENTER 20 days for each additional survey using same grid.	-Radiometric _____	
	-Other _____	
	Geological _____	
	Geochemical _____	

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Nov 30/85 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications \_\_\_\_\_

Previous Surveys			
File No.	Type	Date	Claim Holder

TOTAL CLAIMS 7

OFFICE USE ONLY

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

Number of Stations 175 Number of Readings 175  
Station interval 10 meters Line spacing 100 to 450 meters  
Profile scale \_\_\_\_\_  
Contour interval \_\_\_\_\_

MAGNETIC

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

ELECTROMAGNETIC

Instrument GEONICS EM-16  
Coil configuration two perpendicular receiving coils  
Coil separation N/A  
Accuracy ± 1° ; ± 1%  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency Cutler, Maine 24.0 Hz.  
(specify V.L.F. station)  
Parameters measured In-phase signal (degrees) ; Quadrature (percent)

GRAVITY

Instrument \_\_\_\_\_  
Scale constant \_\_\_\_\_  
Corrections made \_\_\_\_\_  
Base station value and location \_\_\_\_\_  
Elevation accuracy \_\_\_\_\_

INDUCED POLARIZATION RESISTIVITY

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



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOCHEMICAL

Township or Area WRIGHT-DUFFELL-DRUM-KRUMHOLTZ LAKE

Claim Holder(s) NATIONAL DYNAMICS EXPLORATIONS LTD

Survey Company Dynal Explorations

Author of Report B. Youneman

Address of Author 844 W. HASTINGS ST, VANCOUVER, B.C.

Covering Dates of Survey JUNE 21 - NOVEMBER 30, 1985  
(linecutting to office)

Total Miles of Line Cut 7.44 miles (12.785 km.)

MINING CLAIMS TRAVERSED	
List numerically	
Pa	816639
(prefix)	(number)
	816640
	816641
	816642
	816644
	816645
	816647
	816648
	816651
	816652
	816653
	816655
	816656
	816657
	816658
	816659
	816665
	816666
	816681
	816682
	816683
	817449
TOTAL CLAIMS <u>28</u>	

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
Geophysical	
-Electromagnetic _____	
-Magnetometer _____	
-Radiometric _____	
-Other _____	
Geological _____	
Geochemical _____	

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Nov. 30/85 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications \_\_\_\_\_

Previous Surveys

File No.	Type	Date	Claim Holder

OFFICE USE ONLY

If space insufficient, attach list

MINING CLAIMS (cont'd)

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Pa 818230

818231

818234

818277

818280

816686

---

TOTAL CLAIMS: 28

GEOCHEMICAL SURVEY PROCEDURE RECORD

Numbers of claims from which samples taken Pa 816631, 816640, 816641, 816642, 816644, 816645,  
816647, 816648, 816651, 816652, 816653, 816655, 816656, 816657, 816658, 816659,  
816665, 816666, 816681, 816682, 816683, 817449, 818230, 818231, 818234, 818277,  
818280, 816686

Total Number of Samples 901

Type of Sample SOILS, ROCKS, LAKE SEDIMENTS  
(Nature of Material)

Average Sample Weight 1/2 LB.

Method of Collection Mattock, rock hammer,  
lake sediment dredge

Soil Horizon Sampled B and A

Horizon Development A-B1-B2-C

Sample Depth 1 to 25 cm

Terrain Bedrock - glacial overburden -  
Swamp

Drainage Development Poor

Estimated Range of Overburden Thickness 1-200 ft

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_

Soils: - 80 mesh

Rocks: - 100 mesh

lake sediments - 80 mesh

General \_\_\_\_\_

ICAP ANALYSIS

- 0.5 gm Sample digested  
with 3 ml 3-1-2 HCl-HNO<sub>3</sub>  
H<sub>2</sub>O at 95°C for 1 hour, then  
diluted to 10 ml with H<sub>2</sub>O

- Elements: Mo, Co, Pb, Zn, Ag,  
Ni, Cu, Mn, Fe, As, U, Au, Th,  
Sr, Cd, Sb, Bi, V, Ca, P,  
La, Cr, Mg, Ba, Ti, B, Al,  
Na, K, W

ANALYTICAL METHODS

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

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

Others AS BELOW

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (901 tests)

Name of Laboratory ACME ANALYTICAL LABS

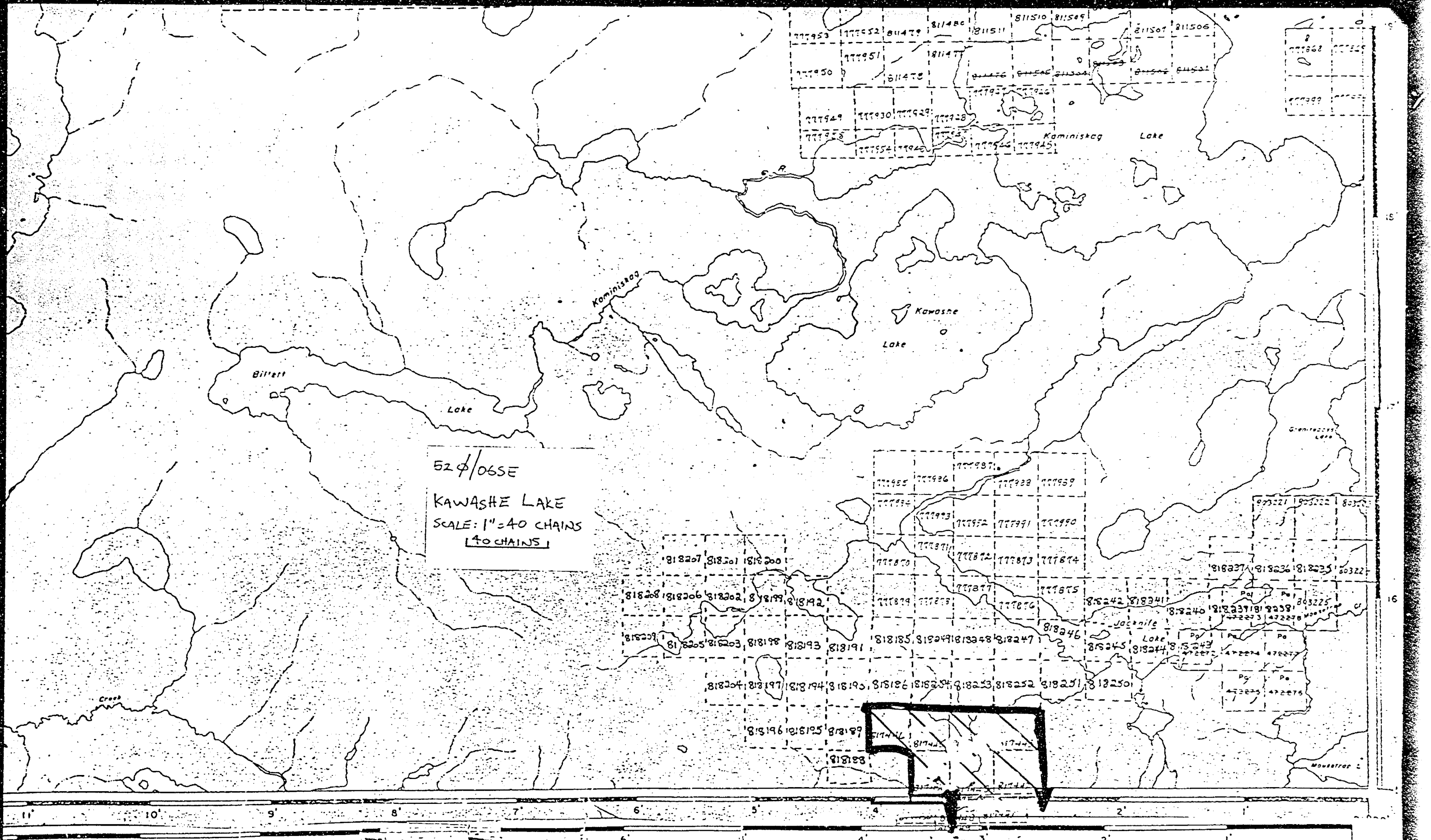
Extraction Method AQUA REGIA

Analytical Method SEE BELOW

Reagents Used \_\_\_\_\_

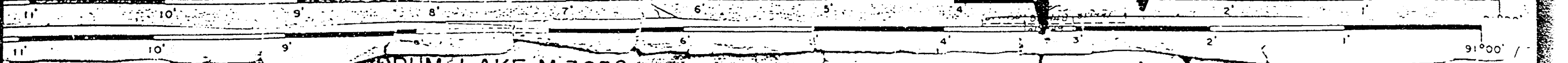
General \_\_\_\_\_

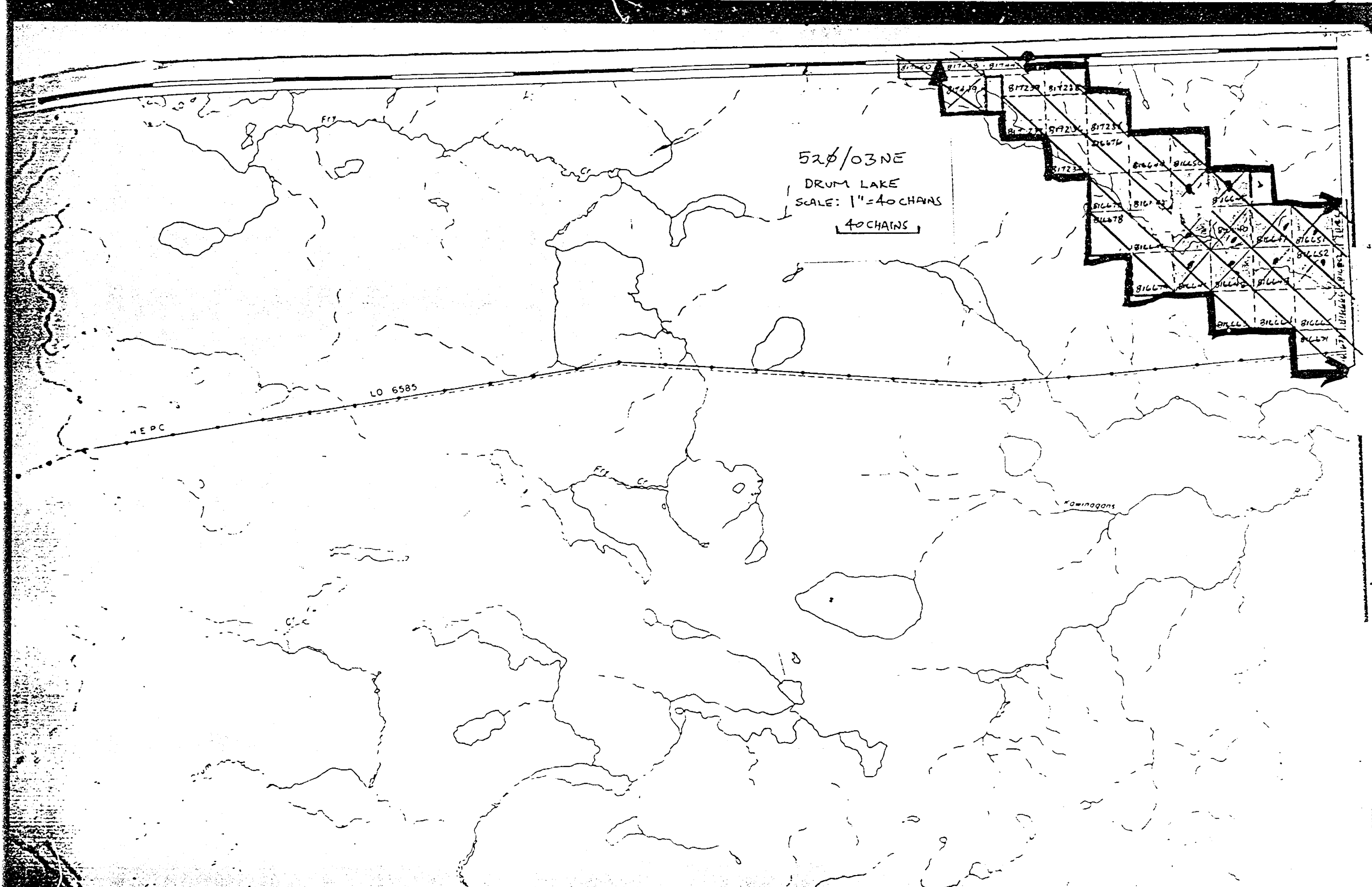
GOLD - 10 gram sample  
fire assay with atomic  
absorption finish



52 4/06SE  
 KAWASHE LAKE  
 SCALE: 1" = 40 CHAINS  
 1/40 CHAINS

DRUM LAKE M. 3050



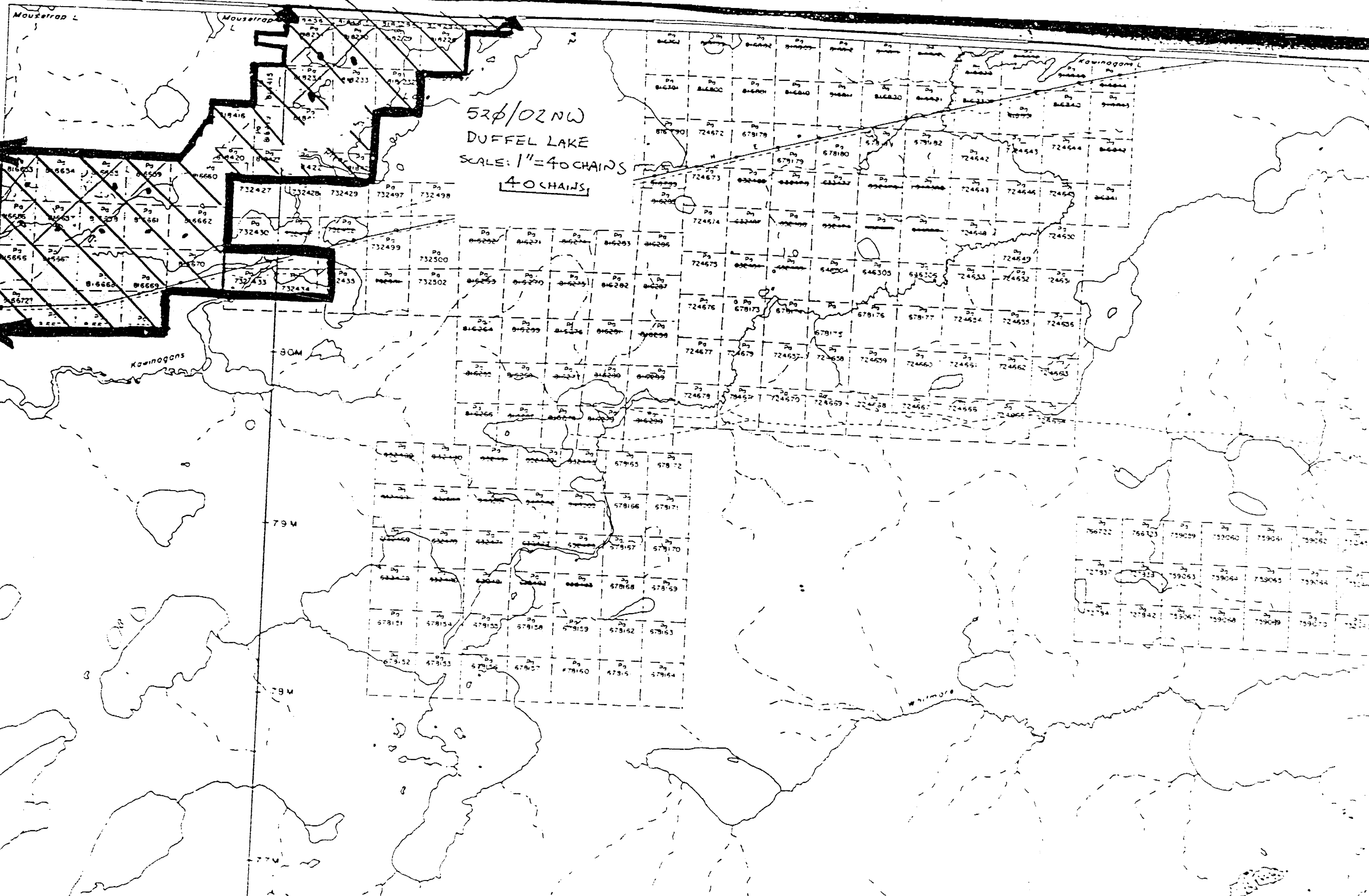


520/03NE  
DRUM LAKE  
SCALE: 1"=40 CHAINS  
40 CHAINS

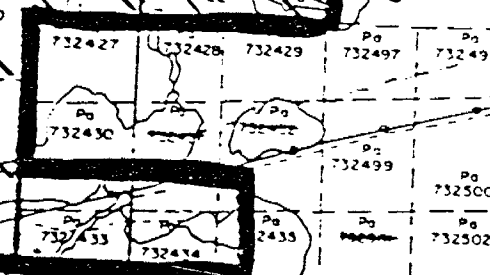
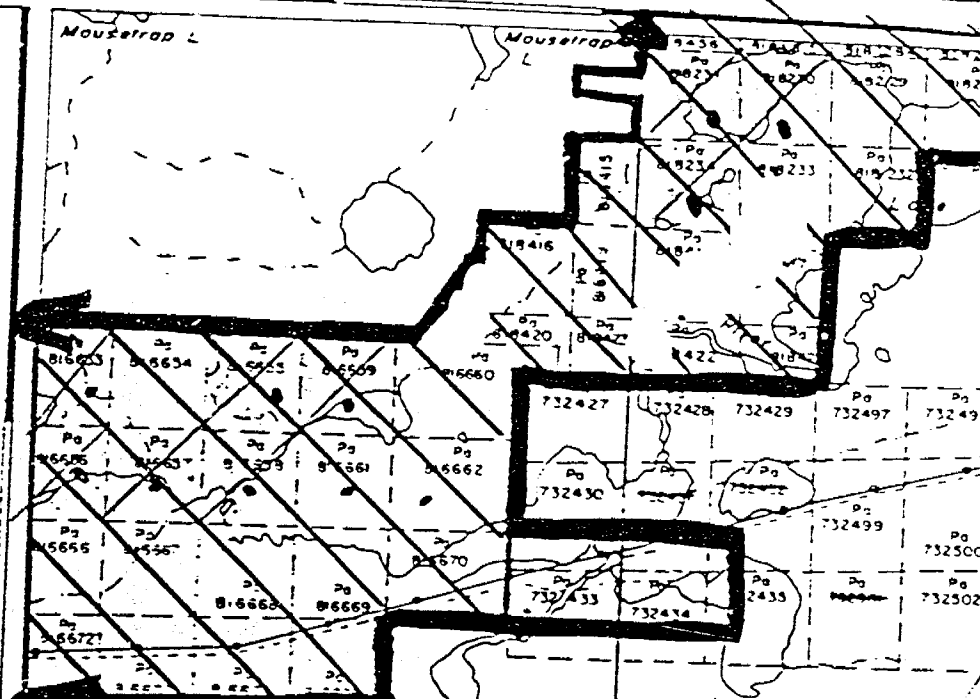
LO 6585

MEPC

Kaminagans



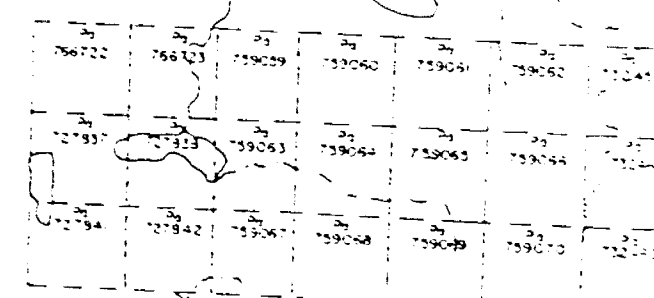
52 1/2 / 02 NW  
 DUFFEL LAKE  
 SCALE: 1" = 40 CHAINS  
 40 CHAINS



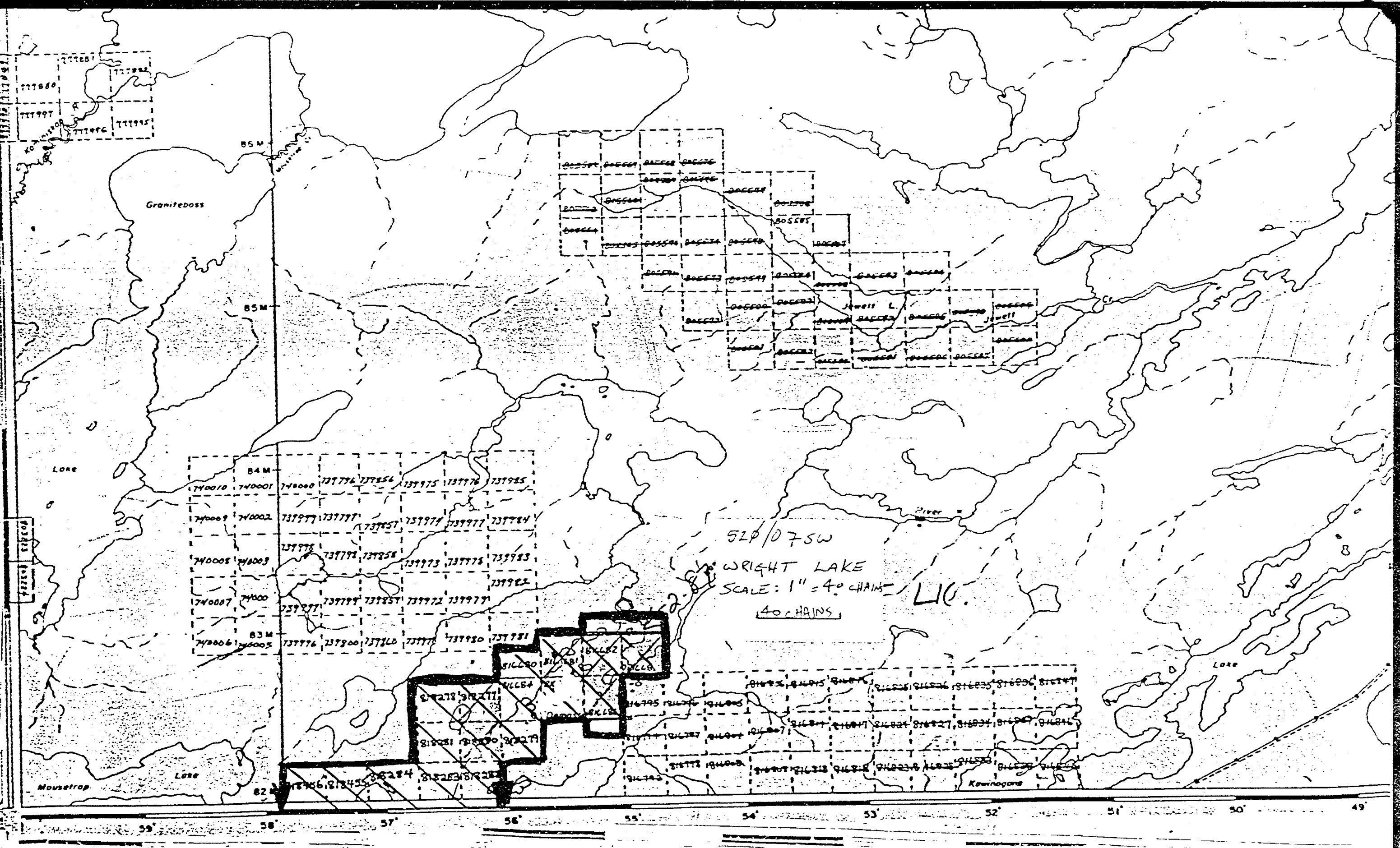
80M

79M

78M



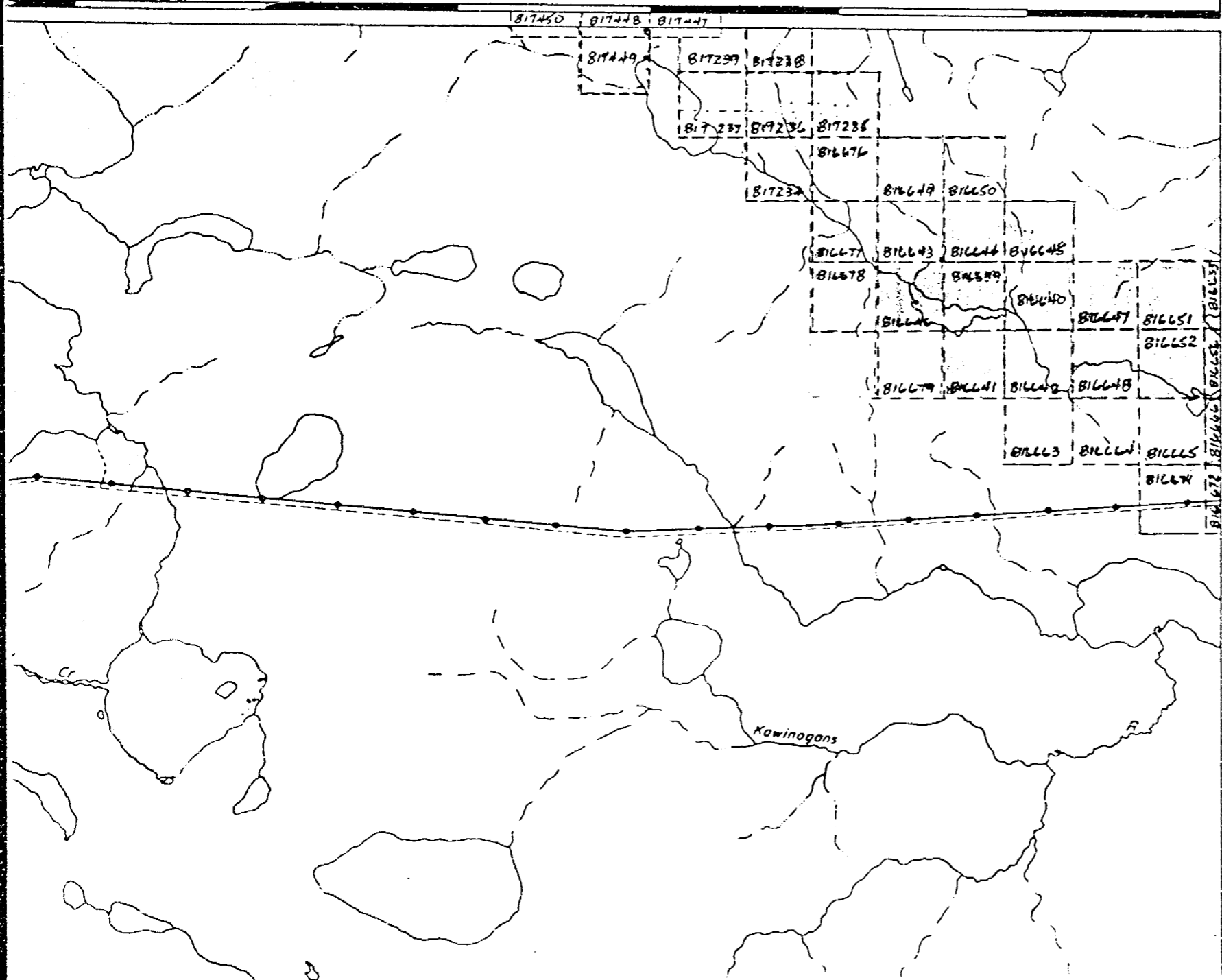




DUFFEL LAKE M-2513

# Drum Lake 9-2012

91°00'



51°15'

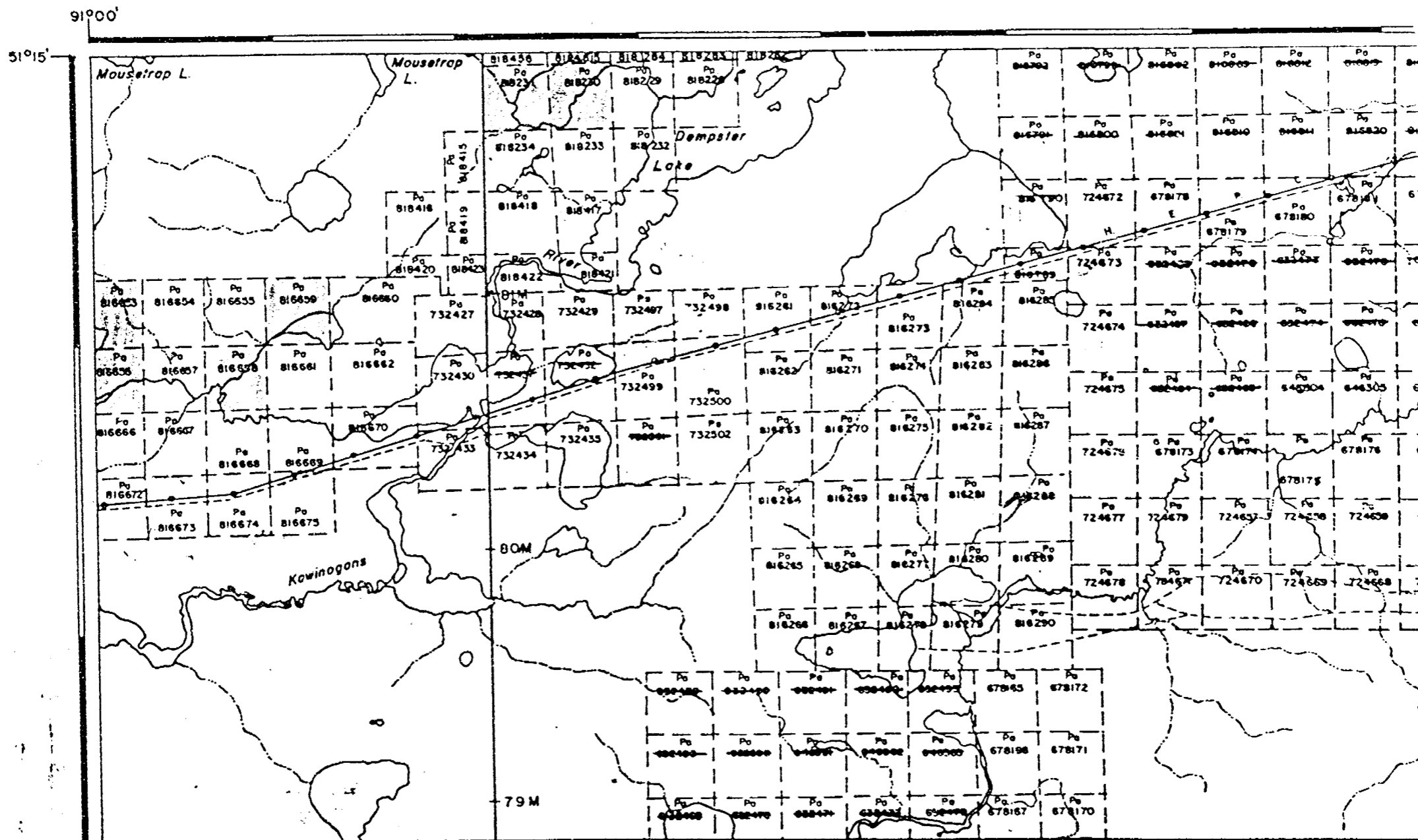
14'

13'

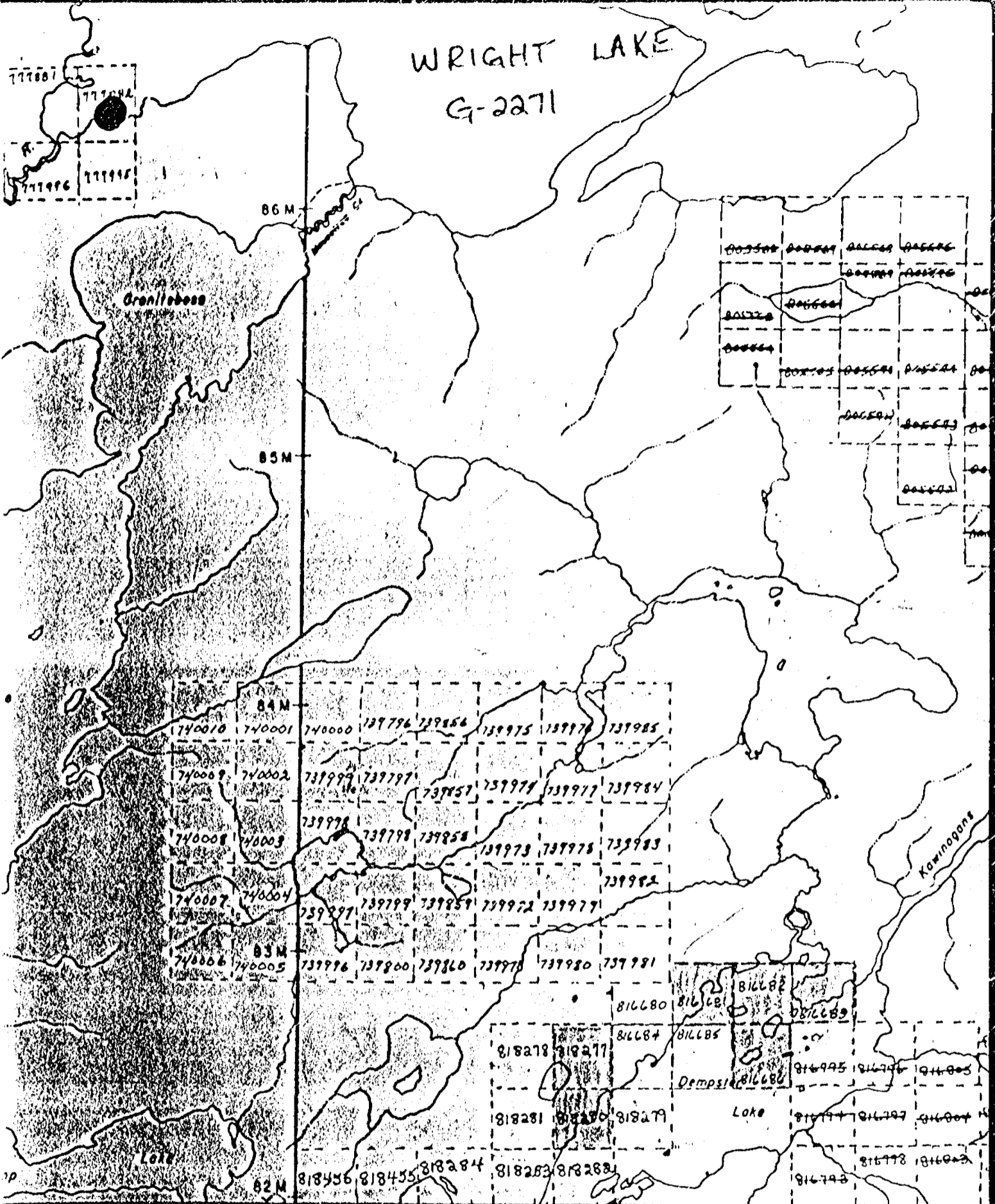
12'

# Duffell Lake G-2013

WRIGHT



# WRIGHT LAKE G-2271



59' 58' 57' 56' 55' 54'



Ministry of  
Natural  
Resources  
Ontario

Report of Work  
(Geophysical, Geological,  
Geochemical and Expenditures)

R. Pichette  
Mining Lands Branch

85-129

Mining Act

Instructions: Please type or print  
Name of mining claim may refer  
to the "part" of the form attached  
Note: Days credits calculated in the  
"Expenditures" section may be entered  
in the "Extend Days Cr." column.  
(Do not use shaded areas below)

Type of Survey(s): **Geological / Geochemical / Geophysical**

Claim Holder(s): **NORSTROM DYNASTY EXPLORATIONS**

Address: **844 WEST HASTINGS ST., VANCOUVER B.C. V6C 1C8**

Survey Company: **DUNIEL EXPLORATIONS**

Name and Address of Author (of Geo Technical report): **Bruce Youngman, Dave Tupper, George Goltzowski**

Date of Survey (from & to): **21 6 85** Day **8 35** Total Miles of line Cut **10.5**

Other info: **TRIM LAKE / BUFFALO LAKE** G-2012  
**WILSON LAKE / KAWASHE LAKE** G-2013  
G-2093  
G-2094

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	0.32
	- Magnetometer	0.32
	- Radiometric	
		5.17
		6.26
Airborne Credits Note: credits do not apply to Airborne Surveys.		Days per Claim
	Magnetometer	
	Radiometric	

PATRICIA MINING DIV.  
**RECEIVED**  
AUG 16 1985  
Geological

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Extend Days Cr.	Prefix	Mining Claim Number	Extend Days Cr.
Pa	816639	8.33	Pa	816662	8.33
	816640	8.33		816663	8.33
	816641	8.33		816664	8.33
	816642	8.33		816665	8.33
	816643	8.33		816666	8.33
	816644	8.33		816667	8.33
	816645	8.33		816668	8.33
	816646	8.33		816669	8.33
	816647	8.33		816670	8.33
	816648	8.33		816671	8.33
	816649	8.33		816672	8.33
	816650	8.33		816673	8.33
	816651	8.33		816674	8.33
	816652	8.33		816675	8.33
	816653	8.33		816676	8.33
	816654	8.33		816677	8.33
	816655	8.33		816678	8.33
	816656	8.33		816679	8.33
	816657	8.33		816680	8.33
	816658	8.33		816681	8.33
	816659	8.33		816682	8.33
	816660	8.33		816683	8.33
	816661	8.33		816684	8.33

Expenditures (excludes power stripping)

Type of Work Performed: **SECTION T7-19**  
**Soil/Rock Geochemical Analyses**

Performed on Claim(s): **816644, 816645, 816639, 816649, 816647, 816651, 816653, 816656, 816652, 816643, 816646, 816641, 816654, 816655, 818231, 818230, 818277, 816686, 816681, 816682, 816683**

Calculation of Expenditure Days Credits

Total Expenditures: **\$ 11,000.00 (ESTIMATE)** x **15** = **733.3**

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date: **AUG. 9/85**

Reported Holder or Agent (Signature): **Bruce Youngman**

Pa. 816639

Total number of mining claims covered by this report of work: **88**

For Office Use Only

Total Days Cr. Recorded: **795.46**

Date Recorded: **August 14, 1985**

Mining Recorder: **[Signature]**

Date Approved: **See Reversed Statement**

Recorded by: **[Signature]**

Branch Director: **[Signature]**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **Bruce A. Youngman P.O. Box 350, PICKLE LAKE, ONT. P0V 3A0**

Date Certified: **AUG. 9/85**

Certified by (Signature): **[Signature]**

MINING CLAIMS TRANSFERRED (Cont'd)

<u>CLAIM</u>	<u>EXPAND DAY</u>
Pa 816685	8.33
816686	8.33
817234	8.33
817235	8.33
817236	8.33
817237	8.33
817238	8.33
817239	8.33
817443	8.33
817444	8.33
817445	8.33
817446	8.33
817447	8.33
817448	8.33
817449	8.33
817450	8.33
818228	8.33
818229	8.33
818230	8.33
818231	8.33
818232	8.33
818233	8.33
818234	8.33
818271	8.33
818278	8.33
818279	8.33
818280	8.33
818281	8.33
818282	8.33
818283	8.33
818284	8.33
818415	8.33
818416	8.33
818417	8.33
818418	8.33
818419	8.33
818420	8.33

<u>CLAIM</u>	<u>EXPAND DAY</u>
Pa 818421	8.33
818422	8.33
818423	8.33
818455	8.33
818456	8.33

PATRICIA MINING DIV.  
**RECEIVED**  
 AUG 16 1985  
 A.M. P.M.  
 7 8 9 10 11 12 1 2 3 4 5 6

▲

CLAM# Numbers	GEOL	MAN - DAY CREDITS			EXPENDITURE CREDITS	TOTAL CREDITS
		Geoth m	EM	MAG		
Pa 816639	5.17	19.68	4	3.11	8.81	40.77
816640	5.17	19.68	4	3.11	-	31.96
816641	5.17	19.68	-	-	-	24.85
816642	5.17	19.68	4	3.11	-	31.96
816643	5.17	-	-	-	14.83	20.0
816644	5.17	19.68	4	3.11	-	31.96
816645	5.17	19.68	4	3.11	-	31.96
816646	5.17	-	-	-	14.83	20.0
816647	5.17	19.68	4	3.11	-	31.96
816648	5.17	19.68	4	3.11	-	31.96
816649	5.17	-	-	-	14.83	20.0
816650	5.17	-	-	-	14.83	20.0
816651	5.17	19.68	-	3.11	-	27.96
816652	5.17	19.68	-	3.12	-	27.97
816653	5.17	19.68	-	-	-	24.85
816654	5.17	-	-	-	14.83	20.0
816655	5.17	19.68	-	-	-	24.85
816656	5.17	19.68	-	-	-	24.85
816657	5.17	19.68	-	-	-	24.85
816658	5.17	19.68	-	-	-	24.85
816659	5.17	19.68	-	-	-	24.85
816660	5.17	-	-	-	14.83	20.0
816661	5.17	-	-	-	14.83	20.0
816662	5.17	-	-	-	14.83	20.0
816663	5.17	-	-	-	-	5.17
816664	5.17	-	-	-	-	5.17
816665	5.17	19.68	-	-	-	24.85
816666	5.17	19.68	-	-	-	24.85
816667	5.17	-	-	-	14.83	20.0
816668	5.17	-	-	-	14.83	20.0
816669	5.17	-	-	-	14.83	20.0
816670	5.17	-	-	-	-	5.17
816671	5.17	-	-	-	-	5.17
816672	5.17	-	-	-	-	5.17
816673	5.17	-	-	-	-	5.17
816674	5.17	-	-	-	-	5.17
816675	5.17	-	-	-	-	5.17
816676	5.17	-	-	-	14.83	20.0
816677	5.17	-	-	-	14.83	20.0
816678	5.17	-	-	-	-	5.17
816679	5.17	-	-	-	-	5.17
816680	5.17	-	-	-	14.83	20.0
816681	5.17	19.68	-	-	-	24.85
816682	5.17	19.68	-	-	-	24.85
816683	5.17	19.68	-	-	-	24.85
816684	5.17	-	-	-	14.83	20.0
816685	5.17	-	-	-	14.83	20.0
816686	5.17	19.68	-	-	-	24.85
817234	5.17	-	-	-	14.83	20.0
817235	5.17	-	-	-	14.83	20.0
817236	5.17	-	-	-	14.83	20.0
817237	5.17	-	-	-	14.83	20.0
817238	5.17	-	-	-	14.83	20.0
817239	5.17	-	-	-	14.83	20.0
817443	5.17	-	-	-	14.83	20.0
817444	5.17	-	-	-	14.83	20.0
817445	5.17	-	-	-	14.83	20.0
817446	5.17	-	-	-	14.83	20.0
817447	5.17	-	-	-	14.83	20.0
817448	5.17	-	-	-	14.83	20.0

CLAIM NUMBERS	GEO.	MAN DAY CREDITS			EXPENDITURE CREDITS	TOTAL CREDITS
		GEOCHEM	EM	MAG		
Pa 817447	5.17	19.68			14.83	24.85
8174	5.17	-			14.83	20.0
8182	5.17	-			14.83	20.0
818229	5.17	-				20.0
818230	5.17	19.68				24.85
818231	5.17	19.67			14.83	24.84
818232	5.17	-			14.83	20.0
818233	5.17	-				20.0
818234	5.17	19.67				24.84
818277	5.17	19.67				24.84
818278	5.17	-			14.83	20.0
818279	5.17	-			14.83	20.0
818280	5.17	19.67			14.83	24.84
818281	5.17	-			14.83	20.0
818282	5.17	-			14.83	20.0
818283	5.17				14.83	20.0
818284	5.17				14.83	20.0
818415	5.17				14.83	20.0
818416	5.17				14.83	20.0
818417	5.17				14.83	20.0
818418	5.17				14.83	20.0
818419	5.17				14.83	20.0
818420	5.17				14.83	20.0
818421	5.17				14.83	20.0
818422	5.17				14.83	20.01
818423	5.17				14.83	20.01
818455	5.17				14.83	20.01
818456	5.17				14.83	20.01
TOTALS	455.00	551.00	28.00	28.00	750.31	1812.31





Ministry of  
Northern Affairs  
and Mines

Technical Assessment  
Work Credits

File

2,8727

Mining Recorder's Report of  
Work No.

85-129

Date

1986 01 17

Recorded Holder

NORTHERN DYNASTY EXPLORATIONS

Township or Area

DRUM, DUFFELL, WRIGHT AND KAWASHE LAKE AREAS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic ..... days	
Magnetometer ..... 3.1 ..... days	PA 816639-40-42-44-45-47-48-51-52
Radiometric ..... days	
Induced polarization ..... days	
Other ..... days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ..... days	
Geochemical ..... days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey

insufficient technical data filed

PA 816641-43-46-49-50  
816653 to 686 inclusive  
817443 to 450 inclusive  
818228 to 234 inclusive  
818277 to 284 inclusive  
818415 to 423 inclusive  
818455-56  
817234 to 239 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ministry of  
Northern Affairs  
and Mines

Technical Assessment  
Work Credits

Date

1986 01 17

File

2.8727

Mining Recorder's Report of  
Work No.

85-129

Recorded Holder  
**NORTHERN DYNASTY EXPLORATIONS**

Township or Area  
**DRUM, DUFFELL, WRIGHT AND KAWASHE LAKE AREAS**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	PA 816639-40-42-44-45-47-48
Electromagnetic ..... 4 ..... days	
Magnetometer ..... days	
Radiometric ..... days	
Induced polarization ..... days	
Other ..... days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ..... days	
Geochemical ..... days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

PA 816641-43-46  
 816649 to 686 inclusive  
 817234 to 239 inclusive  
 817443 to 450 inclusive  
 818228 to 234 inclusive  
 818277 to 284 inclusive  
 818415 to 423 inclusive  
 818455-56

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 50.



Ministry of  
Northern Affairs  
and Mines



Technical Assessment  
Work Credits

Date  
1986 01 17

File  
2.8727  
Mining Recorder's Report of  
Work No. 85-129

Recorded Holder  
**NORTHERN DYNASTY EXPLORATIONS**

Township or Area  
**DRUM, DUFFELL, WRIGHT AND KAWASHE LAKE AREAS**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic ..... days	
Magnetometer ..... days	PA 816639 to 686 inclusive ✓
Radiometric ..... days	817234 to 239 inclusive ✓
Induced polarization ..... days	817443 to 450 inclusive ✓
Other ..... days	818228 to 234 inclusive ✓
	818277 to 284 inclusive ✓
	818415 to 423 inclusive ✓
	818455-56 ✓
Section 77 (19) See "Mining Claims Assessed" column	
Geological ..... 5.17 ..... days	
Geochemical ..... days	
Man days <input checked="" type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input checked="" type="checkbox"/>
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ministry of  
Northern Affairs  
and Mines

Technical Assessment  
Work Credits

File

2.8727

Date

1986 01 17

Mining Recorder's Report of  
Work No.

85-129

Recorded Holder  
**NORTHERN DYNASTY EXPLORATIONS**

Township or Area  
**DRUM, DUFFELL, WRIGHT AND KAWASHE LAKE AREAS**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical <u>21.2</u> days Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	PA 816639 to 642 inclusive 816644-45-47-48-51-52-53 816655 to 659 inclusive 816681-82-83-86 817449 818230-31-34-77-80-

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

PA 816643-46-49-50-54      PA 818455-56  
 816660 to 680 inclusive  
 816684-85  
 817234 to 239 inclusive  
 817443 to 448 inclusive  
 817450  
 818228-29-32-33  
 818278-79-81-82-83-84  
 818415 to 423 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ministry of  
Northern Affairs  
and Mines

Technical Assessment  
Work Credits

Date  
1986 01 17

File No. 2.8727  
Mining Recorder Report of  
Work No. 85-129

Recorded Holder  
**NORTHERN DYNASTY EXPLORATIONS**

Township or Area  
**DRUM, DUFFEL, WRIGHT AND KAWASHE LAKE AREAS**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b>	
Electromagnetic ..... days	<b>\$11,254.60 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS:</b> PA 816639 to 642 inclusive 816644-45-47-48-51-52-53 816655 to 659 inclusive - 816681-82-83-86 817449 818230-31-34-77-80
Magnetometer ..... days	
Radiometric ..... days	
Induced polarization ..... days	
Other ..... days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ..... days	<b>750.31 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT R.S.O. 1980.</b>
Geochemical ..... days	
Man days [ ] Airborne [ ]	
Special provision [ ] Ground [ ]	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

---

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

---

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

### Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey <b>GEOLOGICAL</b>						
Technical Days		Technical Days Credits		Line-cutting Days		Total Credits
65	x	7	=	455	+	—
				=		455
					÷	88
						=
						5.17

Type of Survey <b>GEOCHEMICAL</b>						
Technical Days		Technical Days Credits		Line-cutting Days		Total Credits
71	x	7	=	497	+	54
				=		551
					÷	88
						=
						6.26

Type of Survey <b>GEOPHYSICAL - ELECTROMAGNETIC</b>						
Technical Days		Technical Days Credits		Line-cutting Days		Total Credits
4	x	7	=	28	+	—
				=		28
					÷	88
						=
						0.32

Type of Survey <b>GEOPHYSICAL - MAGNETIC</b>						
Technical Days		Technical Days Credits		Line-cutting Days		Total Credits
4	x	7	=	28	+	—
				=		28
					÷	88
						=
						0.32

PREPARED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_



Ministry of  
Natural  
Resources

Order of  
the Minister

Dec 14th 1985

Room 6643, Whitney Block  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
416/965-4888

The Mining Act

In the matter of mining claims:

- PA 816639 to 86 inclusive
- 817234 to 39 inclusive
- 817443 to 50 inclusive
- 818228 to 34 inclusive
- 818277 to 84 inclusive
- 818415 to 23 inclusive
- 818455 - 56

in the Areas of Drum Lake, Duffell Lake  
Kawashe Lake and Wright Lake.

On consideration of an application from the recorded holder, Northern Dynasty Explorations Ltd  
under Section 77 Subsection 22 of The Mining Act, I hereby order that the time for filing reports and plans in support of  
Geophysical (Electromagnetic Magnetometer)  
Geological & Geochemical Surveys & Data for Assaying assessment work recorded on August 16, 19 85  
be extended until and including December 14, 19 85.

Sept 5/85  
Date

Signature of Director, Land Management Branch

Copies: Northern Dynasty Explorations Ltd  
844 West Hastings Street  
Vancouver, B.C.  
V6C 1C8

cc: Mining Recorder  
Sioux Lookout, Ontario  
File: #85-129

Bruce A. Youngman  
P.O. Box 350  
Pickle Lake, Ontario  
POV 3A0

R  
D.K.



**NORTHERN DYNASTY EXPLORATIONS LTD.**

844 West Hastings Street, Vancouver, B.C. V6C 1C8 (604) 682-3727

December 10, 1985

**RECEIVED**

DEC 11 1985

**MINING LANDS SECTION**

Mr. Roy Spooner,  
Mining Recorder,  
Sioux Lookout District  
P.O. Box 309  
Sioux Lookout, Ontario  
POV 2T0

Dear Mr. Spooner,

Re: Dempster Lake Claims (File #85-129)

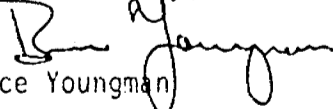
As discussed over the telephone, the following discrepancies exist between the previously-submitted "Report of Work" and the final assessment report prepared for the Dempster Lake claims:

- (1) Geochemical sampling was conducted over 28 claims and not the entire 88-claim Dempster Lake property. Thus, the 551 geochemical man-day credits will amount to 19.68 credits for each claim covered by the survey (see enclosed tabulation).
- (2) Magnetometer credits to be split over 9 claims (3.11 credits per claim).
- (3) Electromagnetic credits to be split over 7 claims (4 credits per claim).
- (4) Total Section 77-19 Expenditures for geochemical analyses amount to \$11,254.60 (as opposed to the \$11,000.00 estimate in the Summary of Work). Because of the above new allocations for geochemical-magnetometer-electromagnetic surveys, we would like to see the 750.31 Section 77-19 credits re-allocated as per the enclosed tabulations.

Should the enclosed revisions be accepted, we will submit as soon as possible the necessary "Relief From Forfeiture" or "Application For Extension" forms for the 10 claims which now fall short of the required 20 credits.

Thanks for your assistance

Yours sincerely,

  
Bruce Youngman

c.c. Ray Pichette  
The Land Management Branch  
Mining Lands Section  
Whitney Block, Queen's Park  
Toronto, Ontario M7A 1W3



February 12, 1986

Your File: 85-129  
Our File: 2.8727

Mining Recorder  
Ministry of Northern Development and Mines  
P.O. Box 309  
Sioux Lookout, Ontario  
POY 2T0

Dear Sir:

RE: Notice of Intent dated January 17, 1986  
Geophysical (Electromagnetic & Magnetometer),  
Geochemical and Geological Surveys and  
Data for Assaying on Mining Claims PA 816639,  
et al, in Drum, Duffell, Wright and Kawashe  
Lake Areas

---

The assessment work credits, as listed with the  
above-mentioned Notice of Intent, have been approved  
as of the above date.

Please inform the recorded holder of these mining  
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt, Director  
Land Management Branch

Mining Lands Section  
Whitney Block, 6th Floor  
Queen's Park  
Toronto, Ontario  
M7A 1M3

Telephone: (416) 965-4888

SH/mc

cc: Northern Dynasty Explorations  
Vancouver, B.C.

Resident Geologist  
Sioux Lookout, Ontario

Bruce A. Youngman  
Pickbe Lake, Ontario

Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario

Encl.



Ministry of  
Natural  
Resources

*Feb. 3/86*

1986 01 17

Your File: 85-129  
Our File: 2.8727

Mining Recorder  
Ministry of Northern Development and Mines  
P.O. Box 309  
Sioux Lookout, Ontario  
POV 2T0

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3

*P.* SH/mc

Encls.

cc: Northern Dynasty Explorations  
844 West Hastings Street  
Vancouver, B.C.  
V5C 1C8

Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario

Bruce A. Youngman  
P.O. Box 350  
Pickle Lake, Ontario  
POV 3A0



Ministry of  
Natural  
Resources

Notice of Intent  
for Technical Reports

1986 01 17

2.8727/85-129

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

2.8727

m

EM.

81644	m		816647						
45	✓		48						
39	✓		42						
40	✓		40						
47	✓		39						
51	✓		45						
48	✓		44						
42	✓		7						
52	✓								
	9								

GC

GC

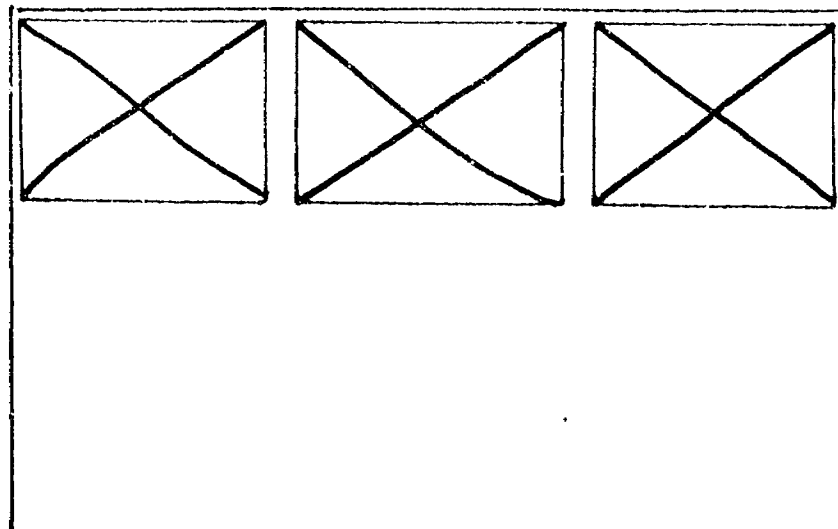
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55	✓								
58	✓		817449	✓					
57	✓		26						
55	✓								
56	✓								
52	✓								
51	✓								
47	✓								
48	✓								
40	✓								
45	✓								
39	✓								
44	✓								
44	✓								
42	✓								

SEE ACCOMPANYING  
MAP(S) IDENTIFIED AS

520/06SE-0033 # 1-3

LOCATED IN THE MAP  
CHANNEL IN THE  
FOLLOWING SEQUENCE

(X)

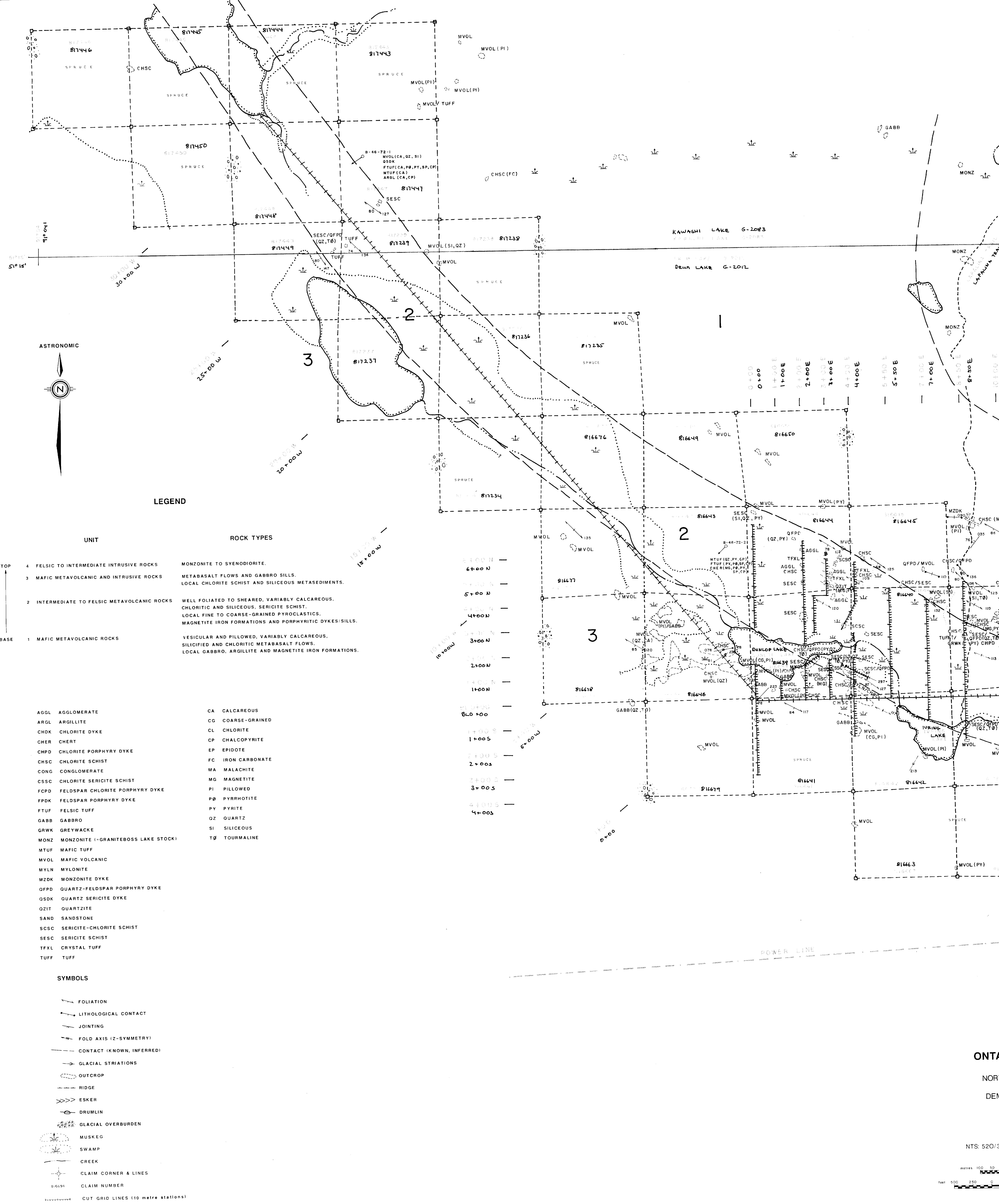


**FOR ADDITIONAL**

**INFORMATION**

**SEE MAPS:**

520/06SE-0033 # 4-10



**LEGEND**

UNIT	ROCK TYPES
4	FELSIC TO INTERMEDIATE INTRUSIVE ROCKS
3	MAFIC METAVOLCANIC AND INTRUSIVE ROCKS
2	INTERMEDIATE TO FELSIC METAVOLCANIC ROCKS
1	MAFIC METAVOLCANIC ROCKS

MONZONITE TO SYENODIORITE.  
 METABASALT FLOWS AND GABBRO SILLS.  
 LOCAL CHLORITE SCHIST AND SILICEOUS METASEDIMENTS.

WELL FOLIATED TO SHEARED, VARIABLY CALCAREOUS,  
 CHLORITIC AND SILICEOUS, SERICITE SCHIST,  
 LOCAL FINE TO COARSE-GRAINED PYROCLASTICS,  
 MAGNETITE IRON FORMATIONS AND PORPHYRYTIC DYKES/SILLS.

VESICULAR AND PILLOWED, VARIABLY CALCAREOUS,  
 SILICIFIED AND CHLORITIC METABASALT FLOWS,  
 LOCAL GABBRO, ARGILLITE AND MAGNETITE IRON FORMATIONS.

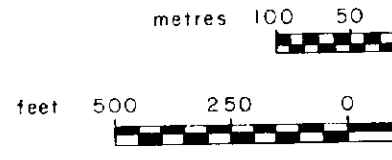
AGGL	AGGLOMERATE	CA	CALCAREOUS
ARGL	ARGILLITE	CG	COARSE-GRAINED
CHDK	CHLORITE DYKE	CL	CHLORITE
CHER	CHERT	CP	CHALCOPYRITE
CHPD	CHLORITE PORPHYRY DYKE	EP	EPIDOTE
CHSC	CHLORITE SCHIST	FC	IRON CARBONATE
CONG	CONGLOMERATE	MA	MALACHITE
CSSC	CHLORITE SERICITE SCHIST	MG	MAGNETITE
FCPD	FELDSPAR CHLORITE PORPHYRY DYKE	PI	PILLOWED
FDPK	FELDSPAR PORPHYRY DYKE	PØ	PYRRHOTITE
FTUF	FELSIC TUFF	PY	PYRITE
GABB	GABBRO	OZ	QUARTZ
GRWK	GREYWACKE	SI	SILICEOUS
MONZ	MONZONITE (-GRANITEBOSS LAKE STOCK)	TØ	TOURMALINE
MTUF	MAFIC TUFF		
MVOL	MAFIC VOLCANIC		
MYLN	MYLONITE		
MZDK	MONZONITE DYKE		
OPFD	QUARTZ-FELDSPAR PORPHYRY DYKE		
OSDK	QUARTZ SERICITE DYKE		
OZIT	QUARTZITE		
SAND	SANDSTONE		
SCSC	SERICITE-CHLORITE SCHIST		
SESC	SERICITE SCHIST		
TFXL	CRYSTAL TUFF		
TUFF	TUFF		

**SYMBOLS**

	FOLIATION
	LITHOLOGICAL CONTACT
	JOINTING
	FOLD AXIS (Z-SYMMETRY)
	CONTACT (KNOWN, INFERRED)
	GLACIAL STRIATIONS
	OUTCROP
	RIDGE
	ESKER
	DRUMLIN
	GLACIAL OVERBURDEN
	MUSKEG
	SWAMP
	CREEK
	CLAIM CORNER & LINES
	CLAIM NUMBER
	CUT GRID LINES (10 metre stations)

ONTA  
 NORT  
 DEMI

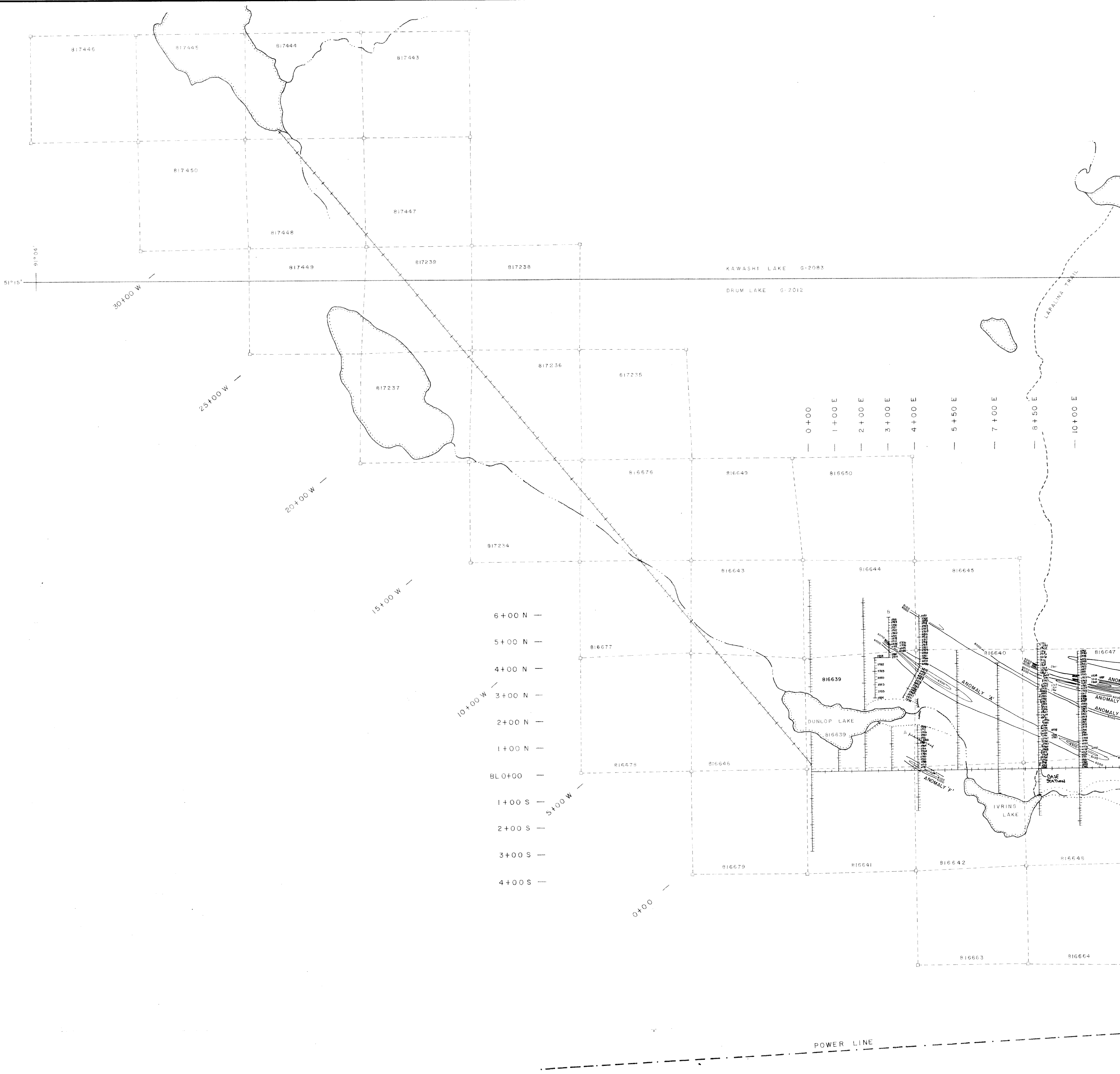
NTS: 520/3.



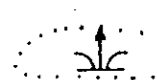
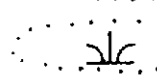
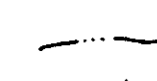
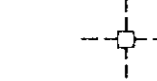
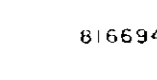
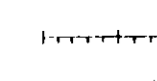



520/06SE-0033, #1

JUNE - AUGUST 1985



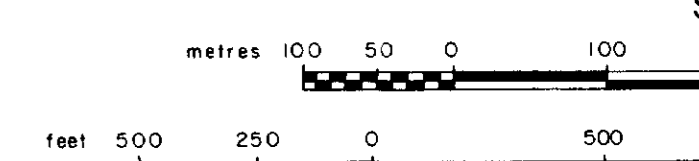


**LEGEND:**

-  MUSKOG
-  SWAMP
-  CREEK
-  CLAIM CORNER & LINES
-  CLAIM NUMBER
-  CUT GRID LINES (10 metre stations)
-  MAGNETOMETER READING IN GAMMAS (x 10)
-  MAGNETOMETER CONTOUR INTERVAL - 6000, 6100, 6300 & 6500 GAMMAS (x 10)
-  INSTRUMENT USED: SCINTREX MFD - 2 DIGITAL FLUXGATE MAGNETOMETER

ONTARIO GOVERNMENT  
 NORTHERN DEVELOPMENT  
 DEMPSTER LAKE DISTRICT  
**GROUND MAGNETOMETRY**

NTS: 520/3.0/6 KAWASHI LAKE

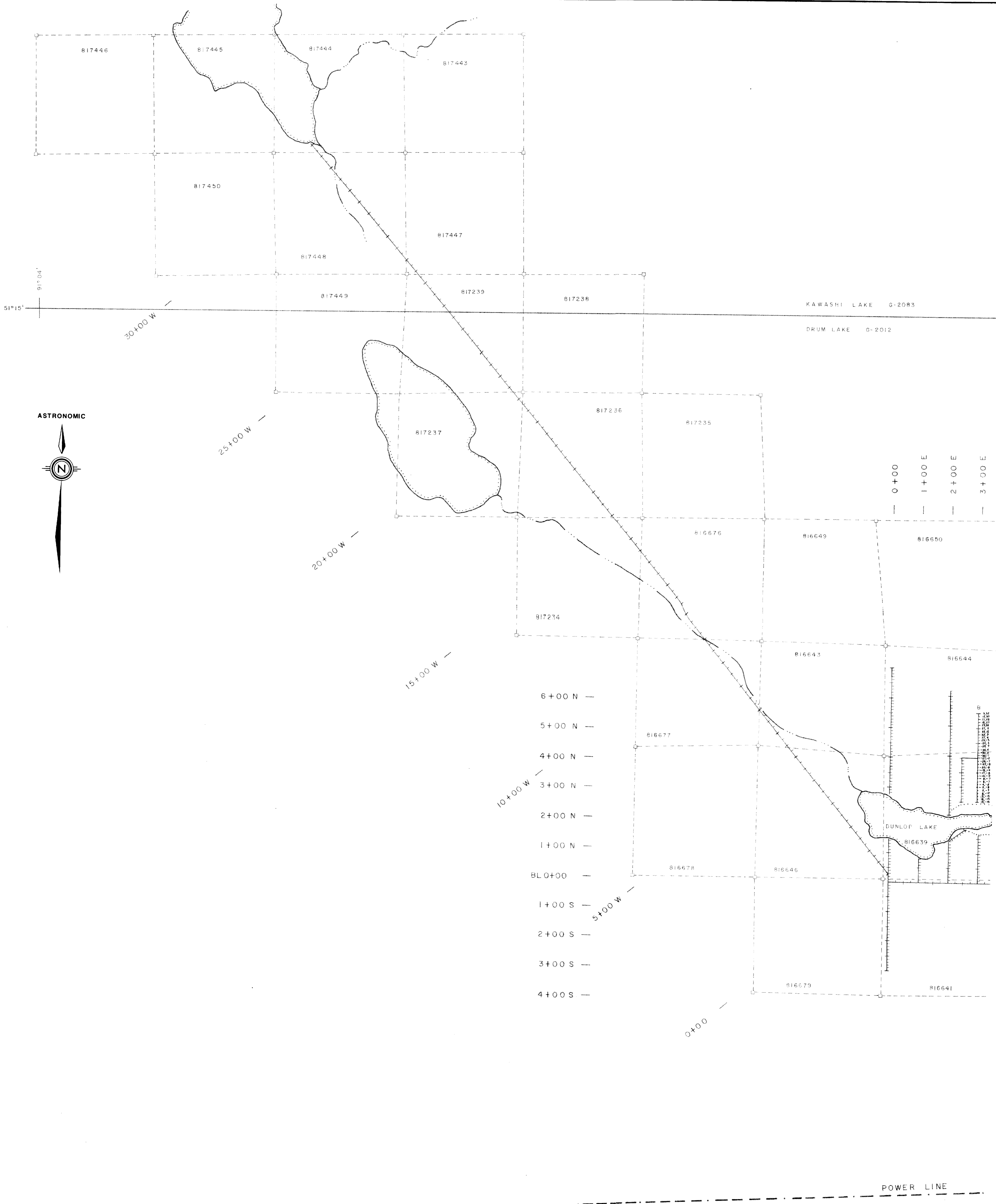


520/06SE-0033 #2

JUNE-AUGUST 1985





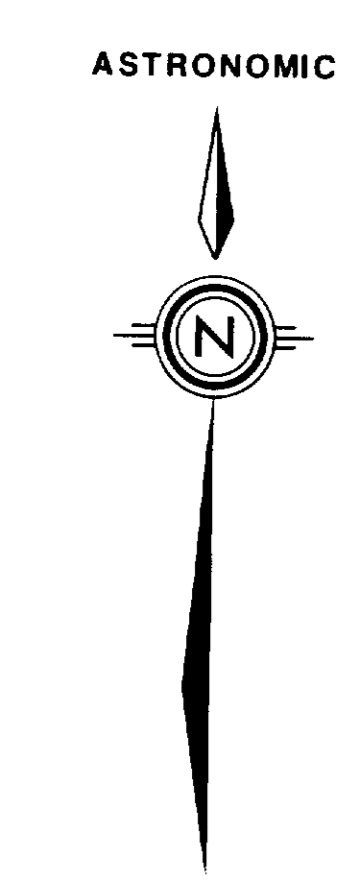


KAWASHI LAKE G-2083  
 DRUM LAKE G-2012

0+00  
 1+00 E  
 2+00 E  
 3+00 E

DUNLOP LAKE  
 816639

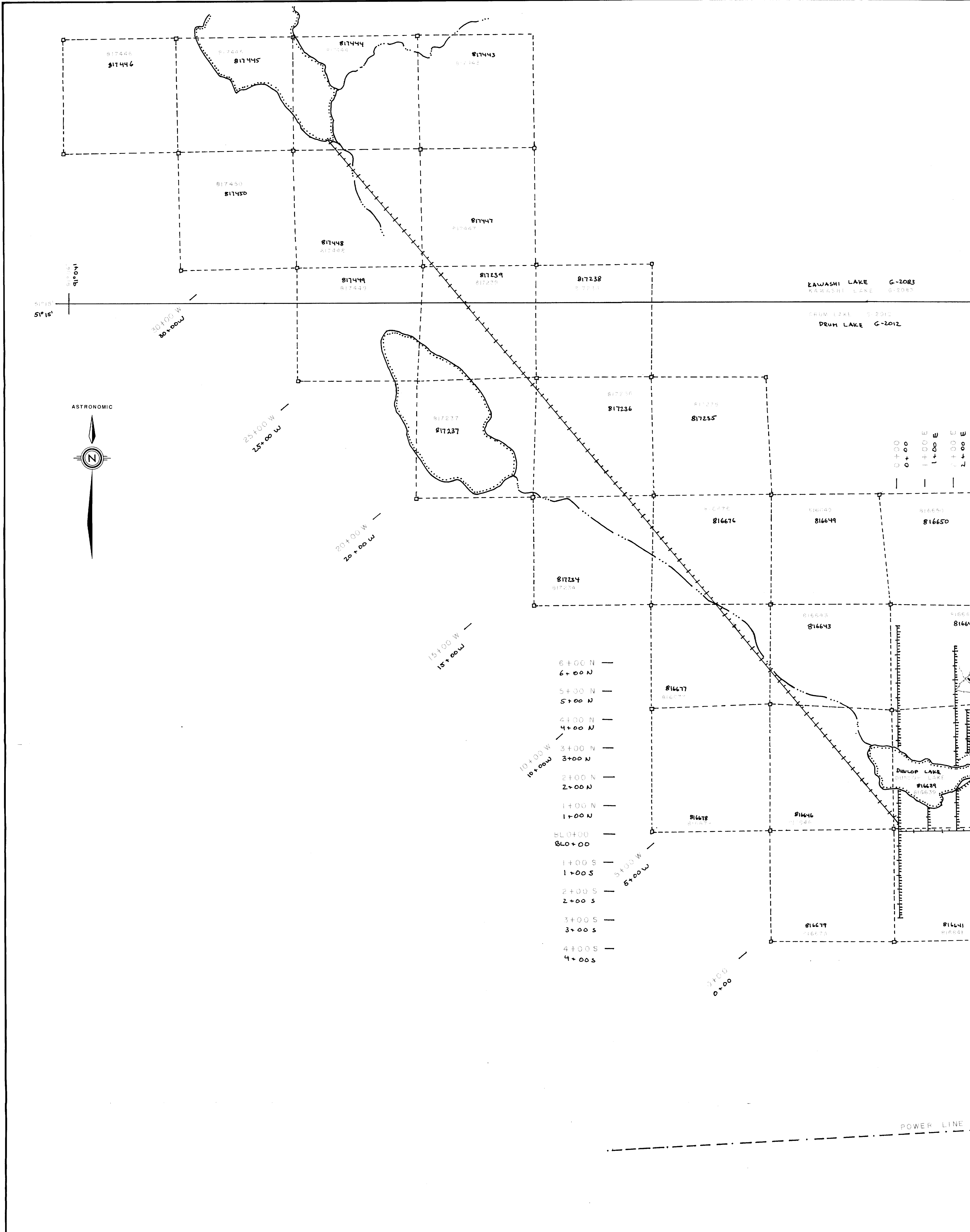
POWER LINE



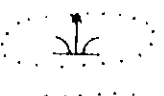
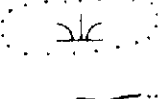

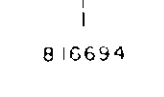
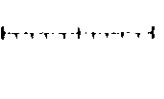
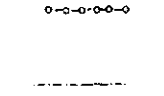
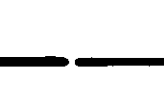


**LEGEND**

- MUSKEG
- SWAMP
- CREEK
- CLAIM CORNER & LINES
- CLAIM NUMBER
- CUT GRID LINES (10 metre stations)
- GRID STATIONS WITH INPHASE VALUE IN DEGREES, QUADRATURE IN PERCENT
- INSTRUMENT : GEONICS RONKA EM-16
- TRANSMITTER : CUTLER, MAINE, U.S.A.





**LEGEND**


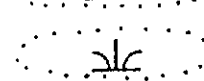
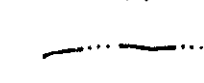
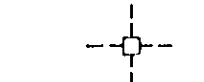
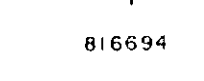
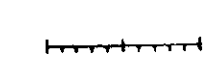
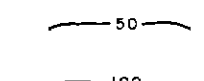
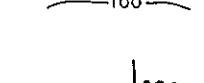

-  MUSKEG
  -  SWAMP
  -  CREEK
  -  CLAIM CORNER & LINES
  -  CLAIM NUMBER
  -  CUT GRID LINES (10 metre stations)
  -  INPHASE PROFILE (SCALE 1 cm = 20')
  -  QUADRATURE PROFILE (SCALE 1 cm = 20')
  -  EM CONDUCTOR
- INSTRUMENT : GEONICS RONKA EM-16  
 TRANSMITTER : CUTLER, MAINE, U.S.A.

520/06SE-0033 #



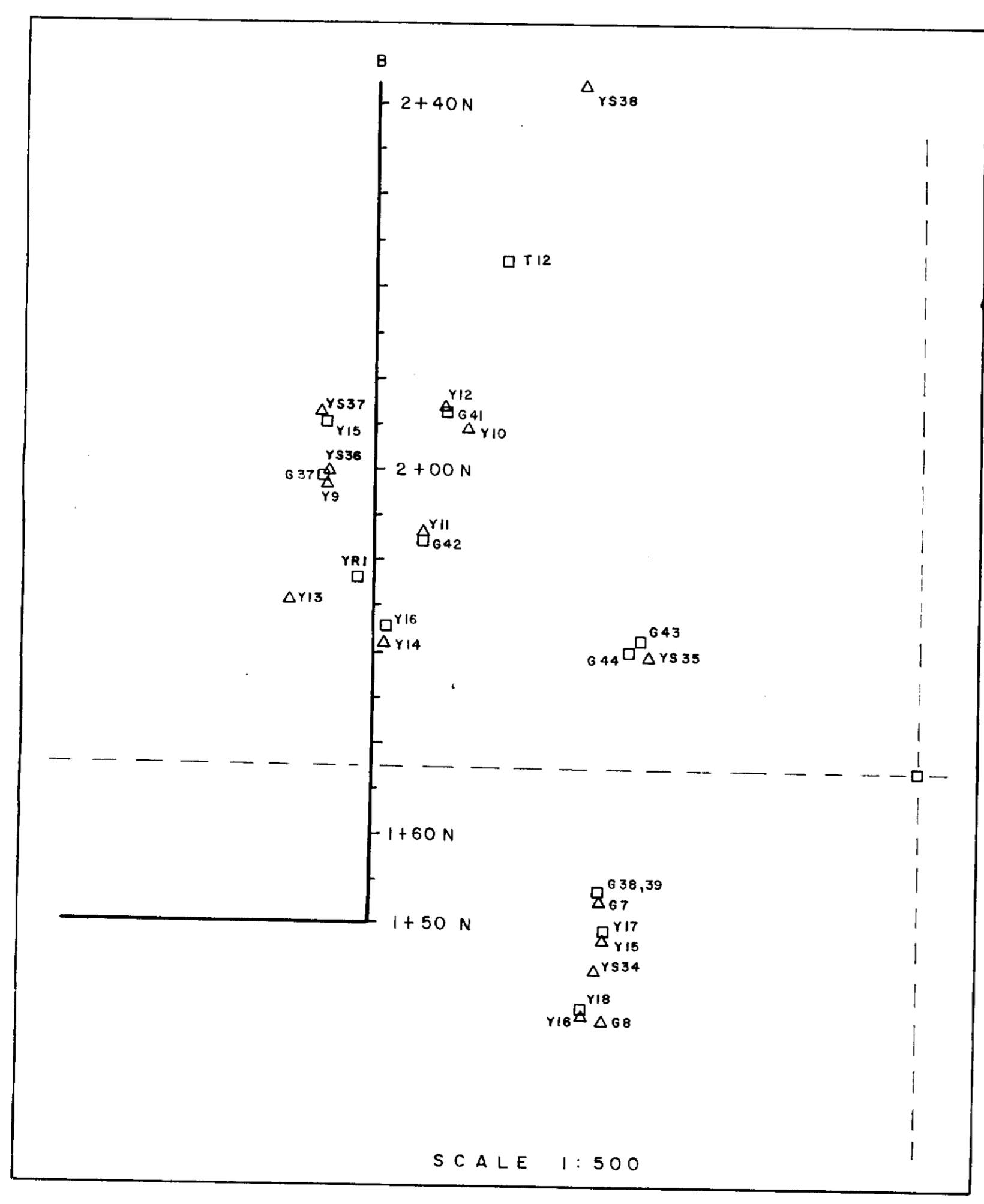
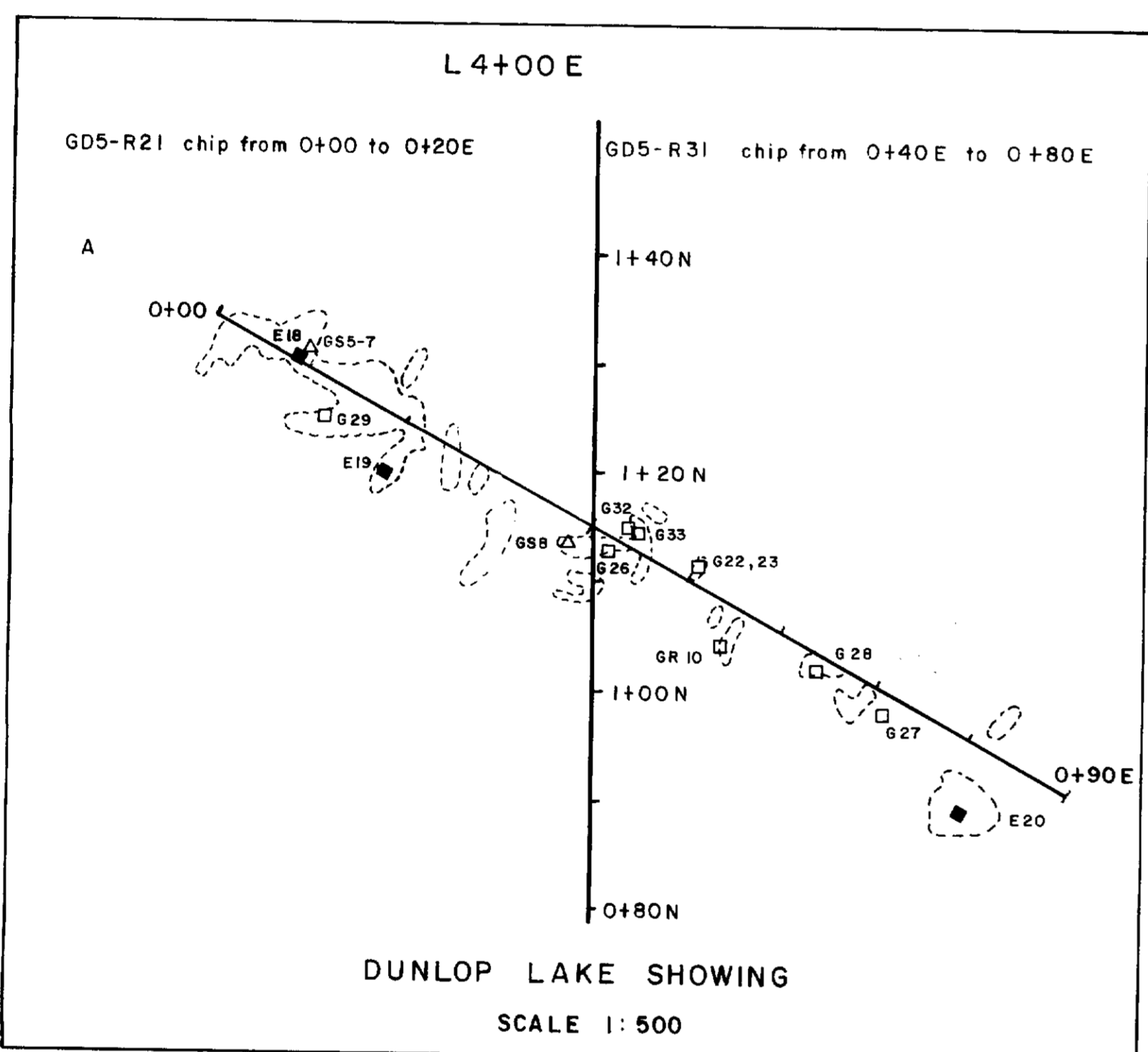
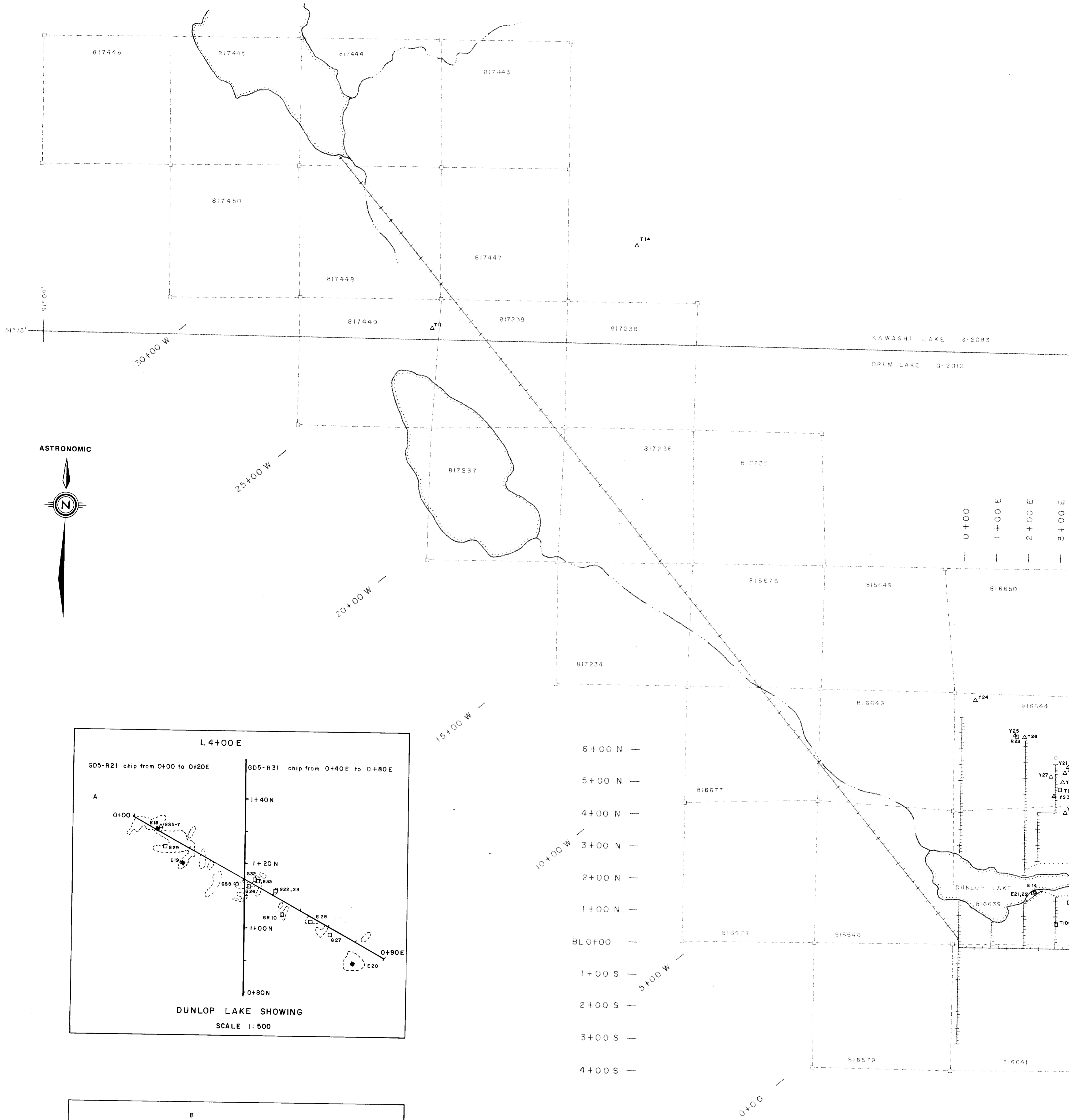


**LEGEND:**

-  MUSKEG
-  SWAMP
-  CREEK
-  CLAIM CORNER & LINES
-  CLAIM NUMBER
-  CUT GRID LINES (10 metre stations)
-  50 p.p.b. GOLD CONTOUR
-  100 p.p.b. GOLD CONTOUR
-  SOIL SAMPLE LINE WITH Au In p.p.b.

520/06SE-0033

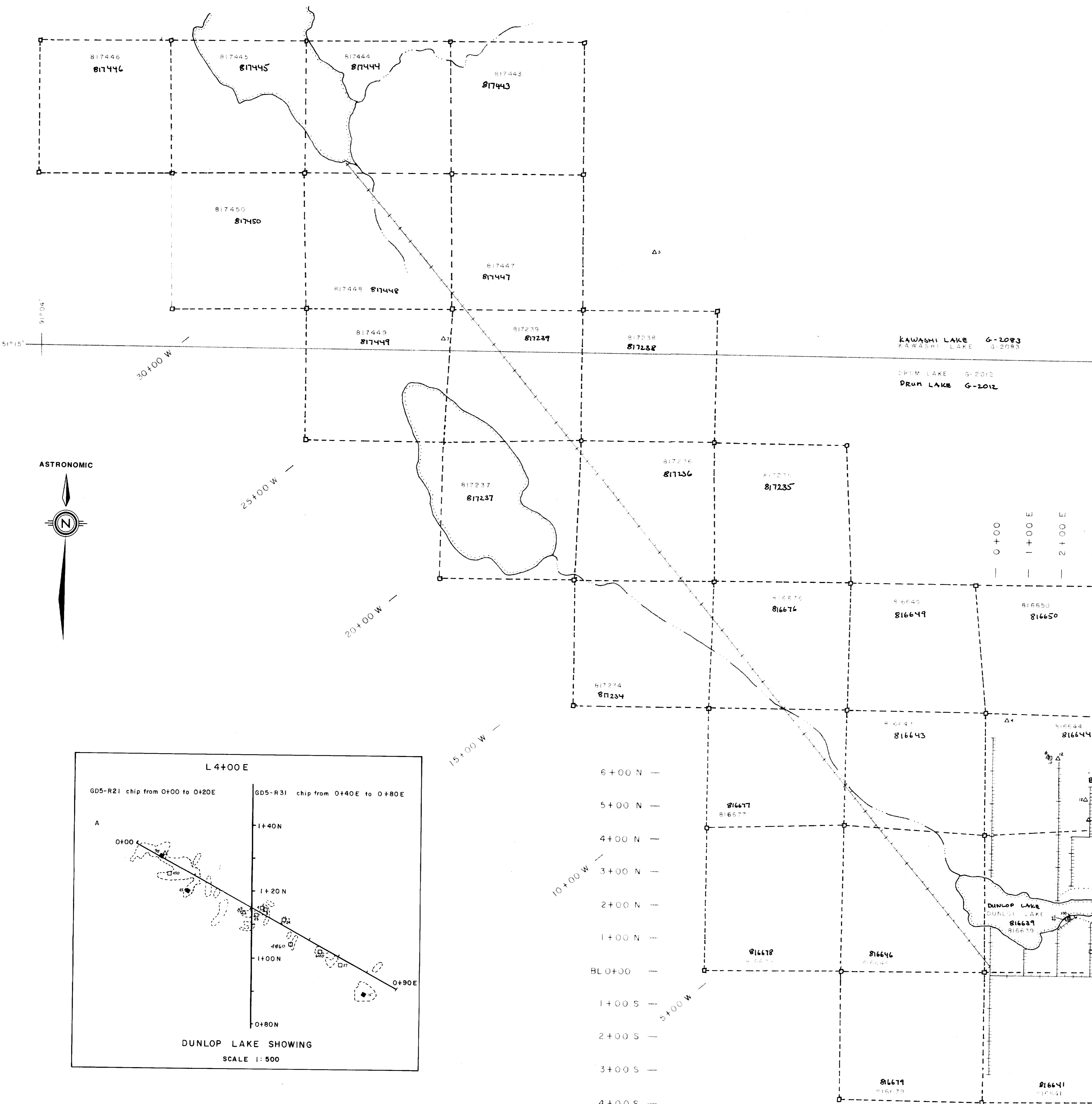




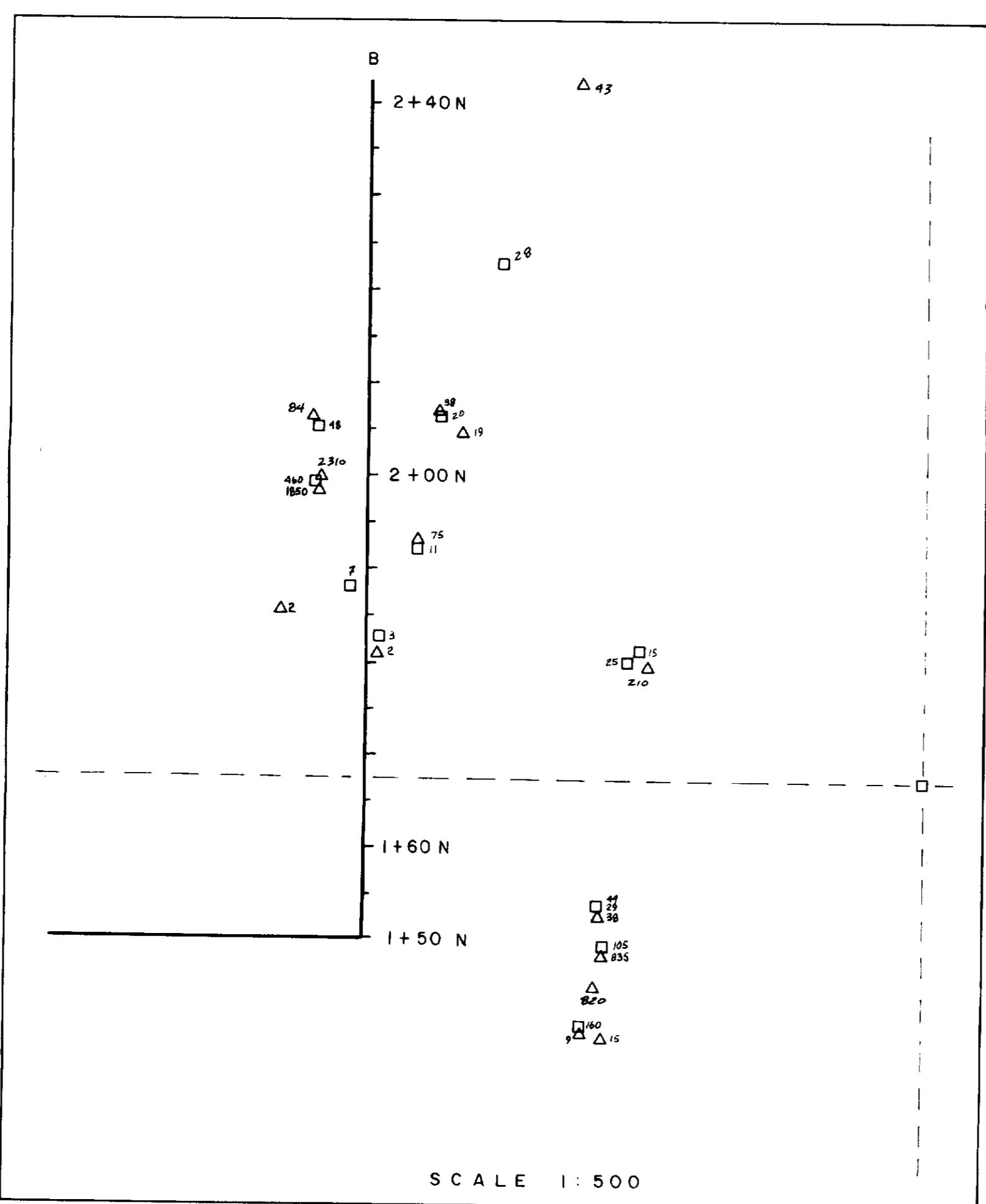
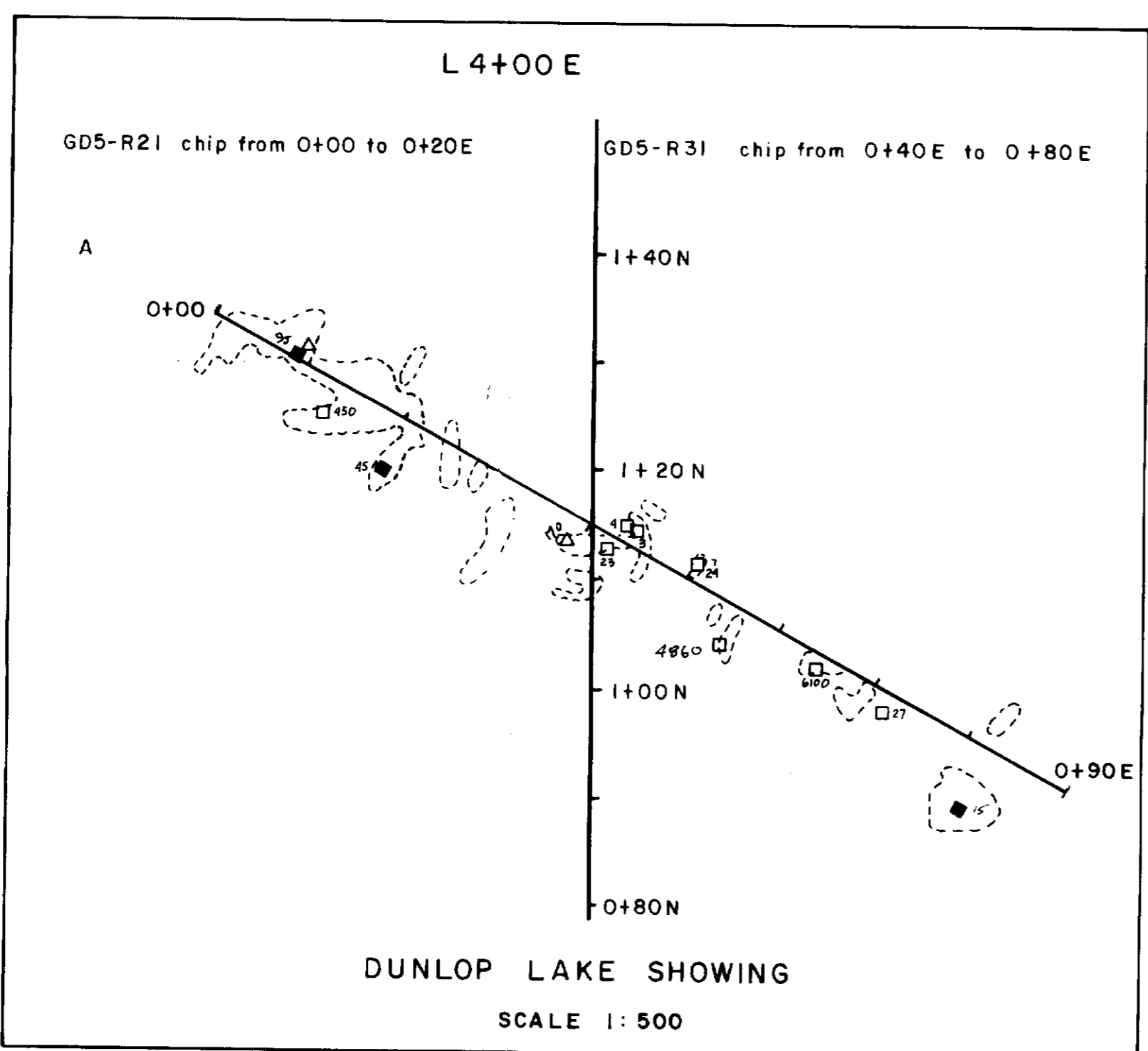
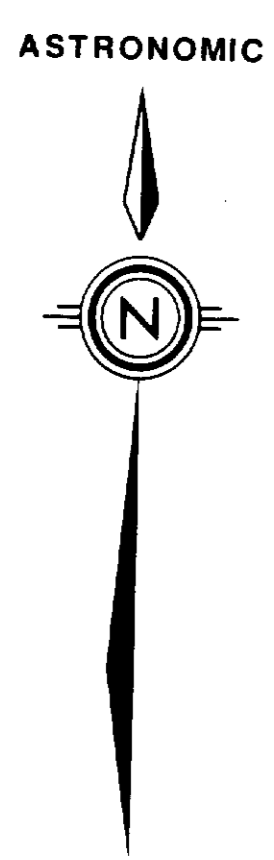
- LEGEND**
- MUSKEG
  - SWAMP
  - CREEK
  - CLAIM CORNER & LINES
  - CLAIM NUMBER
  - CUT GRID LINES (10 metre stations)
  - SOIL SAMPLE LOCATION AND NUMBER
  - ROCK SAMPLE LOCATION AND NUMBER
  - PANEL SAMPLE LOCATION AND NUMBER

520/06SE-0033





KAWASHI LAKE G-2093  
 KAWASHI LAKE G-2093  
 DRUM LAKE G-2012  
 DRUM LAKE G-2012



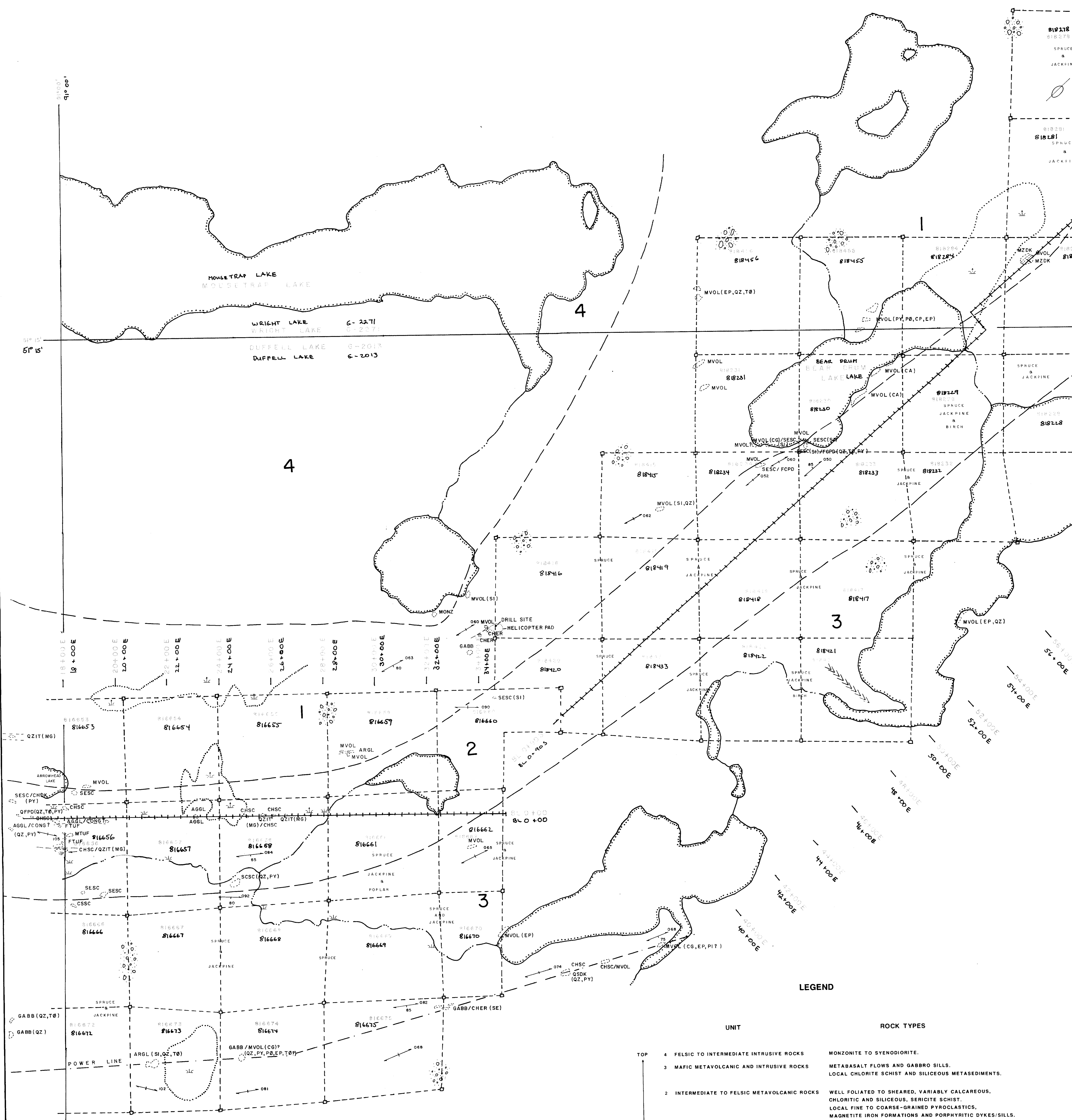
**LEGEND**

- MUSKEG
- SWAMP
- CREEK
- CLAIM CORNER & LINES
- CLAIM NUMBER
- CUT GRID LINES (10 metre stations)
- SOIL SAMPLE LOCATION AND GOLD VALUE IN P.P.M.
- ROCK SAMPLE LOCATION AND GOLD VALUE IN P.P.M.
- PANEL SAMPLE LOCATION AND GOLD VALUE IN P.P.M.

520/06SE-003



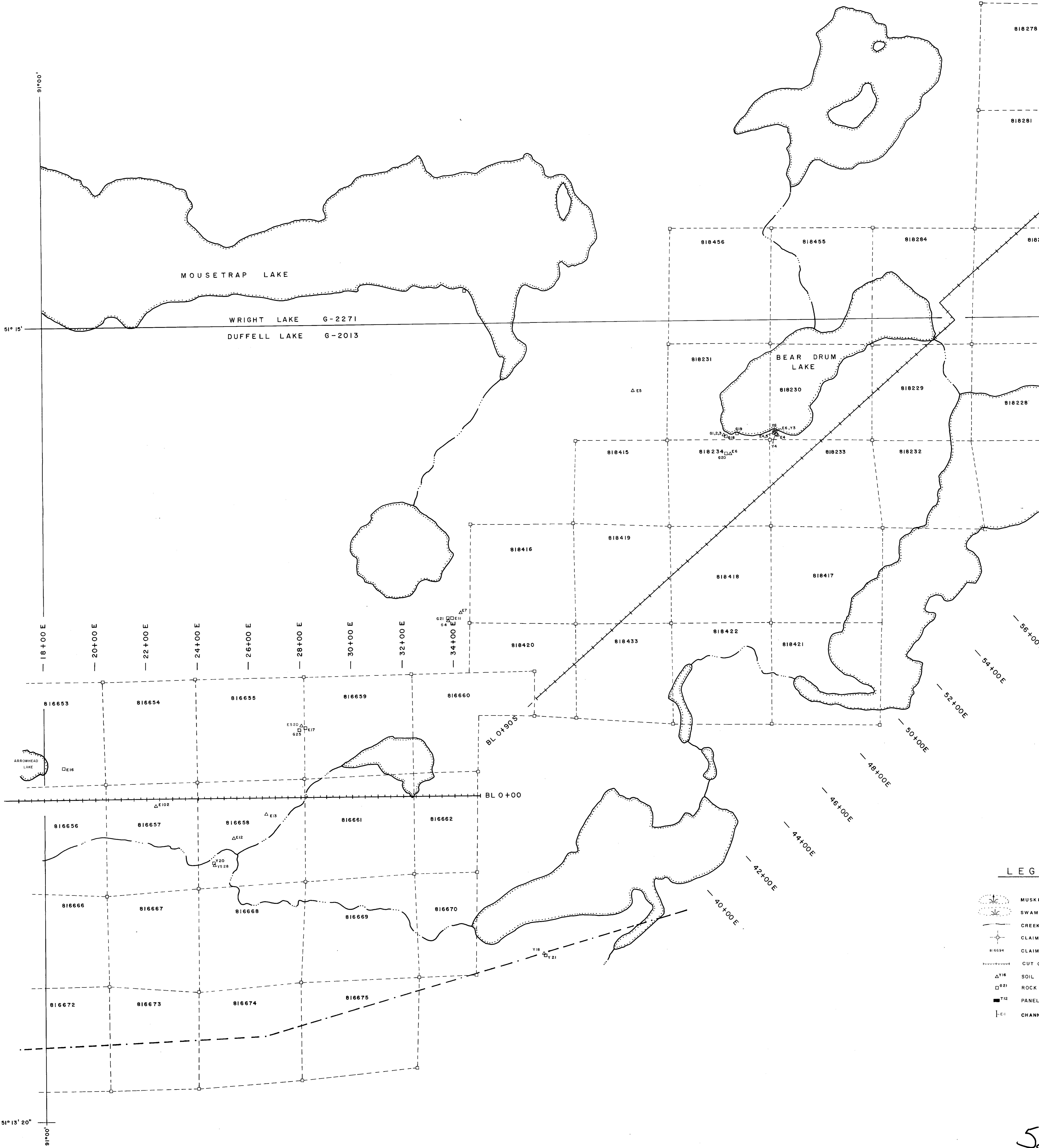




WRIGHT LAKE 6-2271  
 WRIGHT LAKE 6-2271  
 DUFFELL LAKE 6-2013  
 DUFFELL LAKE 6-2013

**LEGEND**

UNIT	ROCK TYPES
4	FELSIC TO INTERMEDIATE INTRUSIVE ROCKS MONZONITE TO SYENODIORITE.
3	MAFIC METAVOLCANIC AND INTRUSIVE ROCKS METABASALT FLOWS AND GABBRIO SILLS. LOCAL CHLORITE SCHIST AND SILICEOUS METASEDIMENTS.
2	INTERMEDIATE TO FELSIC METAVOLCANIC ROCKS WELL FOLIATED TO SHEARED, VARIABLY CALCAREOUS, CHLORITIC AND SILICEOUS, SERICITE SCHIST. LOCAL FINE TO COARSE-GRAINED PYROCLASTICS, MAGNETITE IRON FORMATIONS AND PORPHYRYTIC DYKES/SILLS.
1	MAFIC METAVOLCANIC ROCKS VESICULAR AND PILLOWED, VARIABLY CALCAREOUS, SILICIFIED AND CHLORITIC METABASALT FLOWS. LOCAL GABBRIO, ARGILLITE AND MAGNETITE IRON FORMATIONS.



LEG

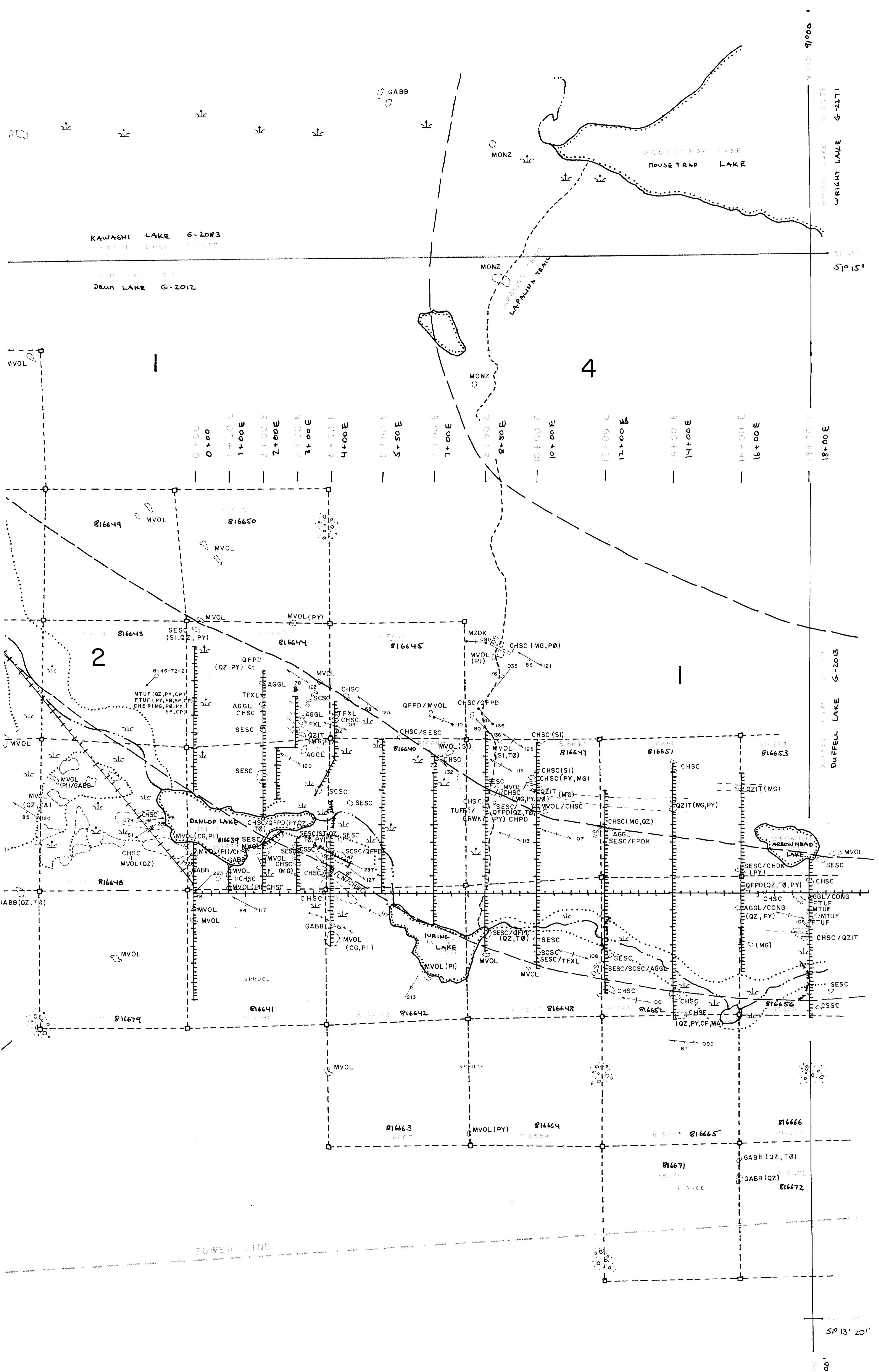
- MUSKOGEAN
- SWAMP
- CREEK
- CLAIM
- CLAIM
- CUT
- SOIL
- ROCK
- PANEL
- CHANNEL



5







**ONTARIO GOLD JOINT VENTURE**

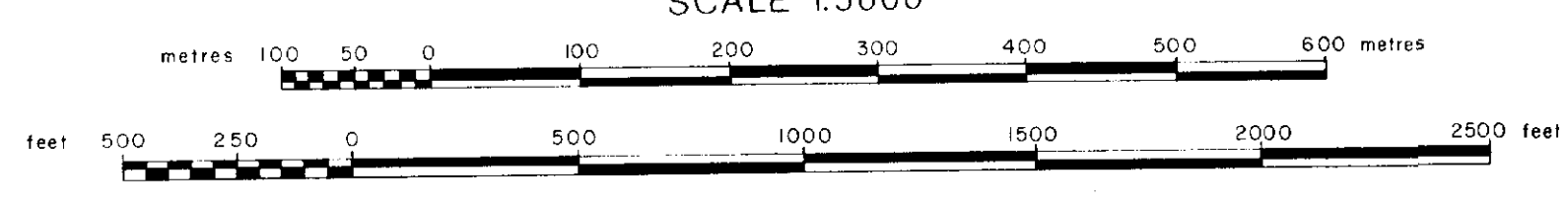
NORTHERN DYNASTY EXPLORATIONS LTD.

DEMPSTER LAKE CLAIM BLOCK - WEST

**GEOLOGY**

NTS: 520/3, 0/6 KAWASHI LAKE G-2083 & DRUM LAKE G-2012

SCALE 1:5000

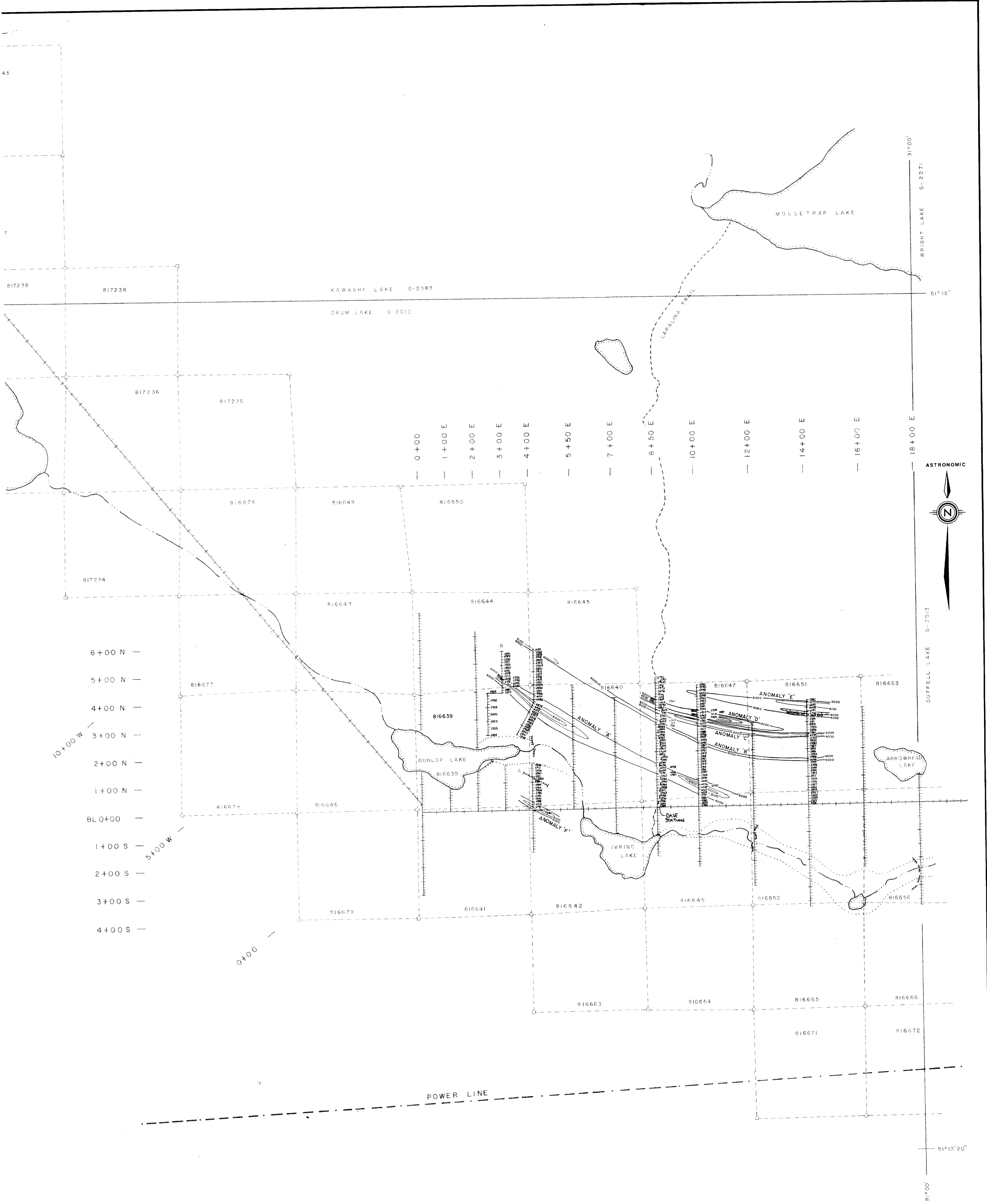


0/06SE-0033, #1

JUNE - AUGUST 1985

PLATE I

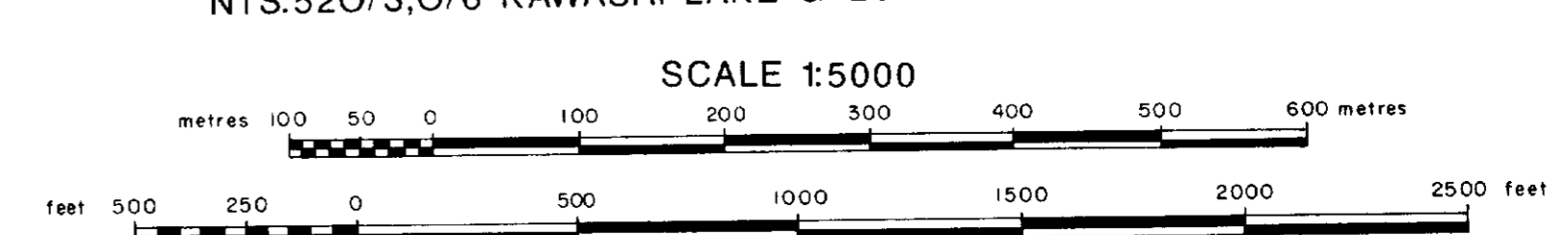
28727



**ONTARIO GOLD JOINT VENTURE**  
 NORTHERN DYNASTY EXPLORATIONS LTD.  
 DEMPSTER LAKE CLAIM BLOCK - WEST  
**GROUND MAGNETOMETER SURVEY**

28727

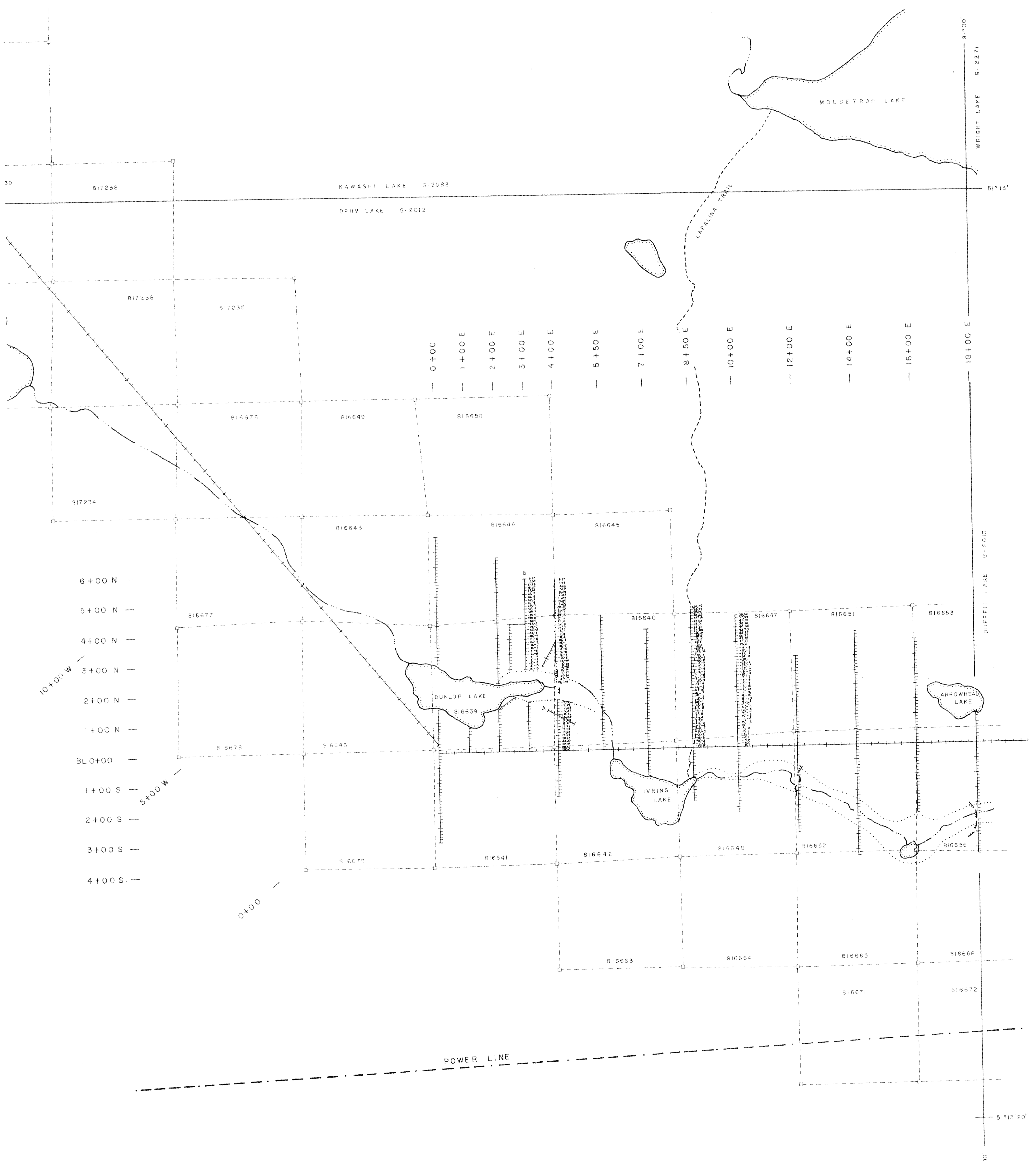
NTS:520/3,0/6 KAWASHI LAKE G-2083 & DRUM LAKE G-2012



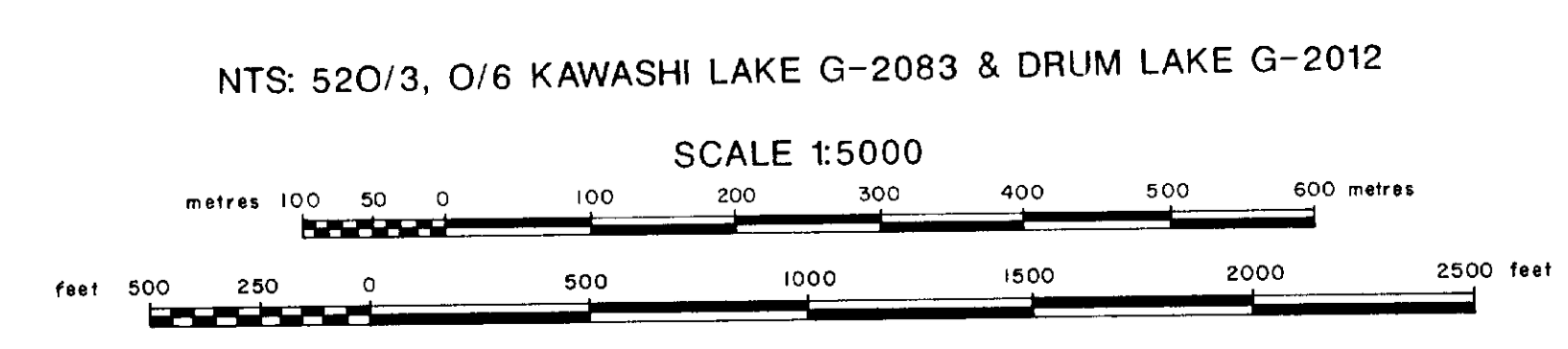
520/06SE-0033 #2

JUNE-AUGUST 1985

PLATE 2



**ONTARIO GOLD JOINT VENTURE**  
 NORTHERN DYNASTY EXPLORATIONS LTD.  
 DEMPSTER LAKE CLAIM BLOCK - WEST  
**GROUND ELECTROMAGNETIC SURVEY - VALUES**



520/06SE-0033 #3

JUNE - AUGUST 1985

PLATE 3

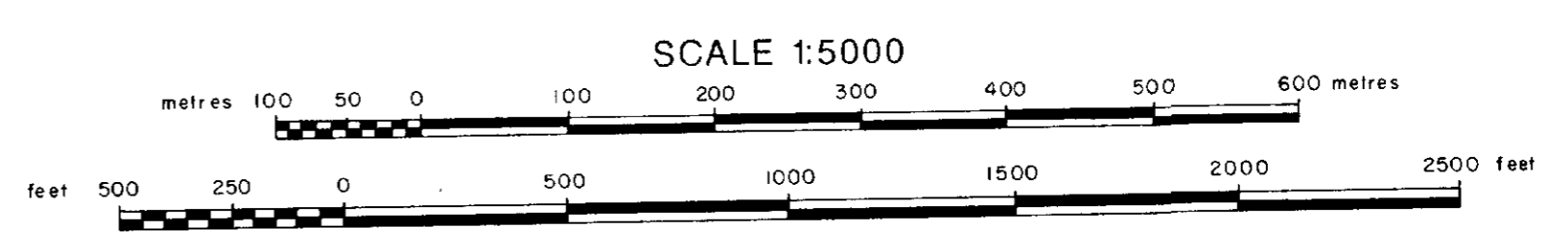
28727



**ONTARIO GOLD JOINT VENTURE**  
 NORTHERN DYNASTY EXPLORATIONS LTD.  
 DEMPSTER LAKE CLAIM BLOCK - WEST

**GROUND ELECTROMAGNETIC SURVEY - PROFILES**

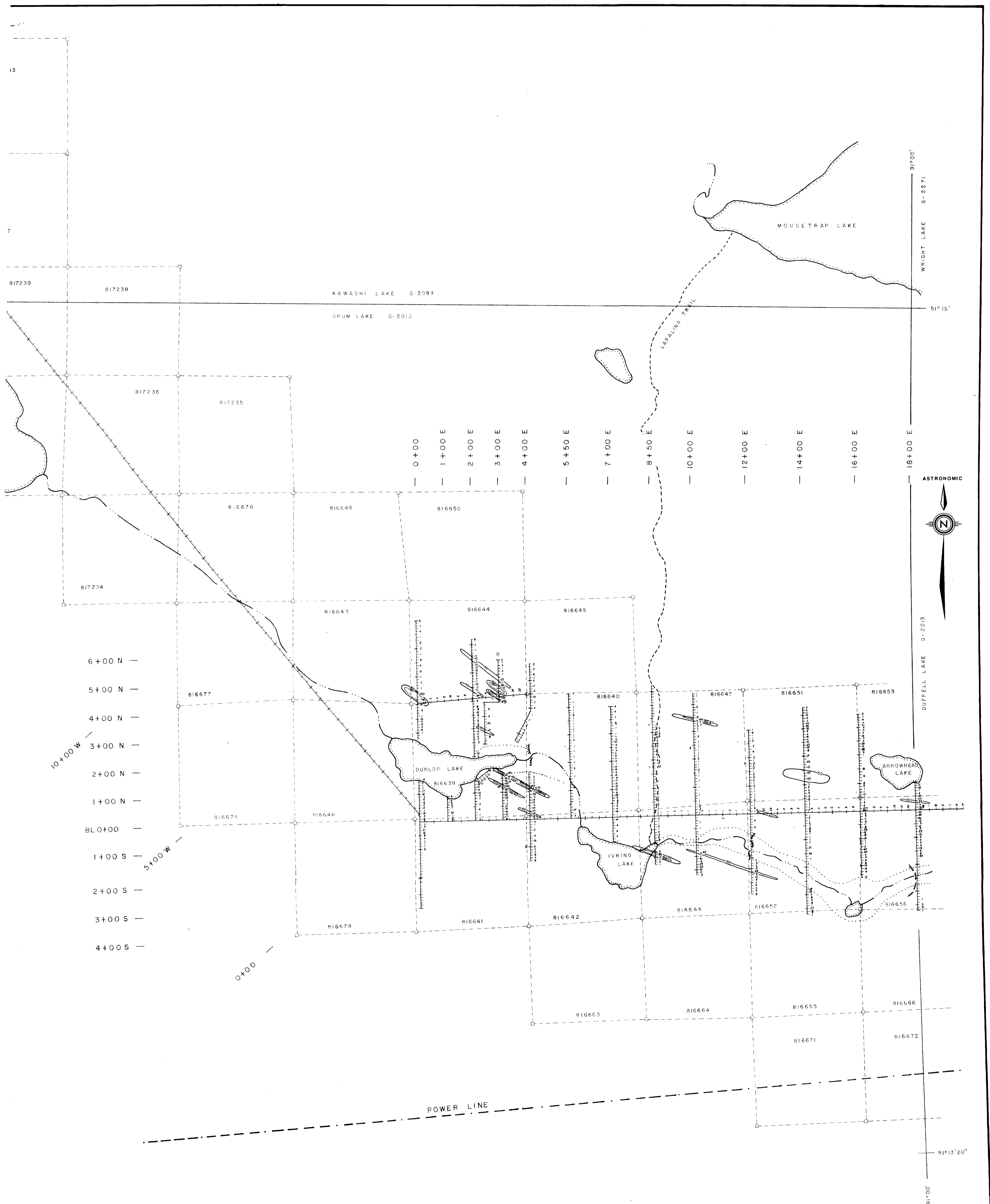
NTS: 520/3, O/6 KAWASHI LAKE G-2083 & DRUM LAKE G-2012



520/06SE-0033 #4

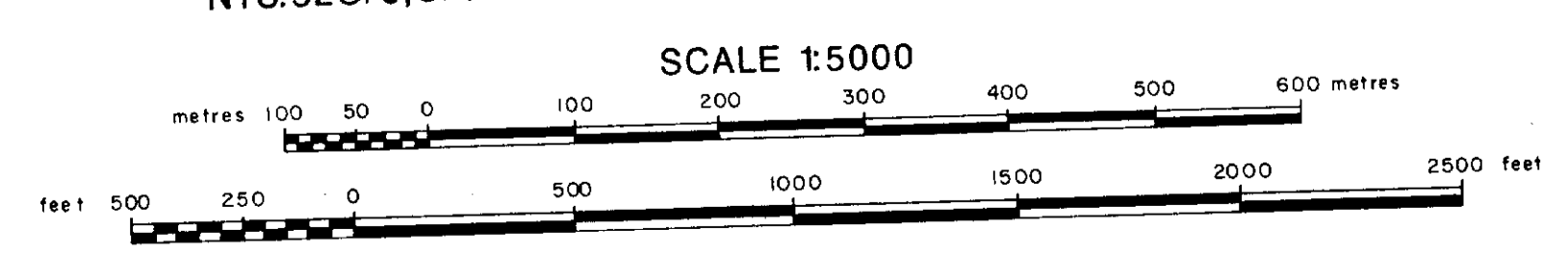
28727





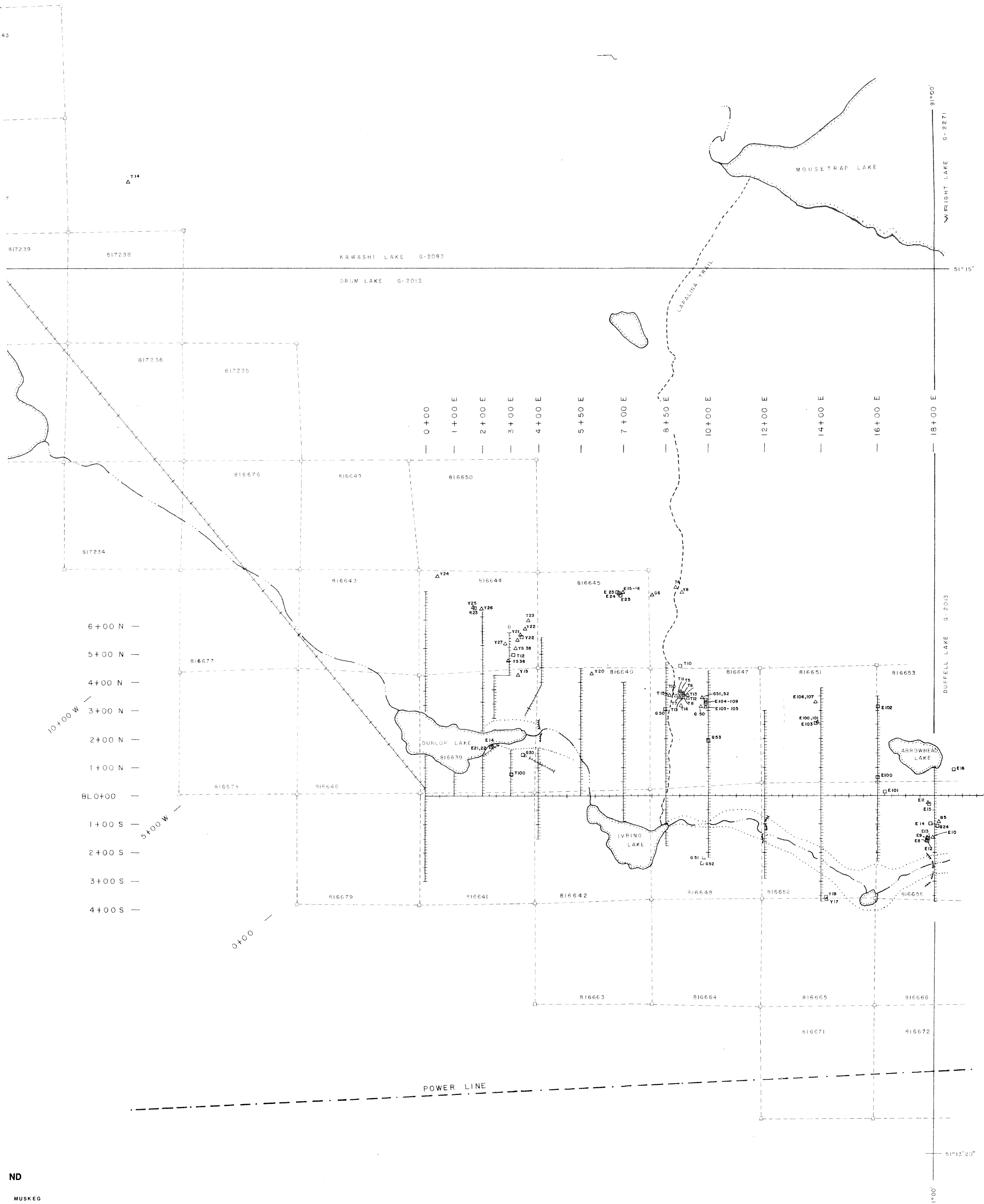
**ONTARIO GOLD JOINT VENTURE**  
 NORTHERN DYNASTY EXPLORATIONS LTD.  
 DEMPSTER LAKE CLAIM BLOCK - WEST  
**Au - GRID SOIL GEOCHEMISTRY**

NTS:520/3,0/6 KAWASHI LAKE G-2083 & DRUM LAKE G-2012



520/06SE-0033 #5

28727

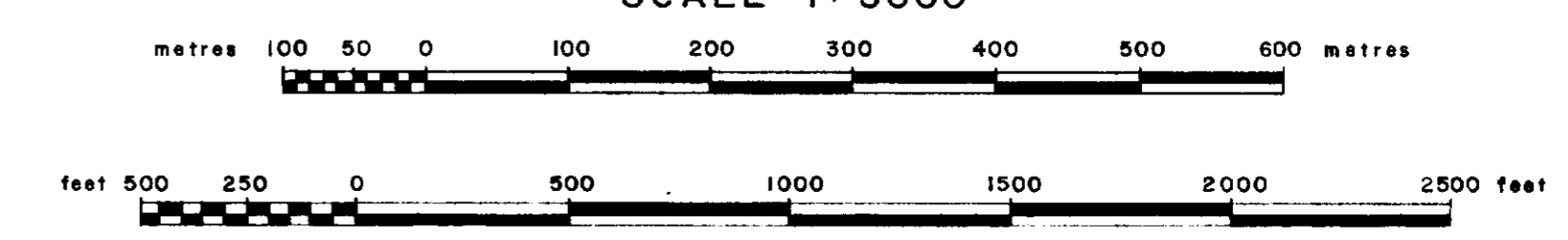


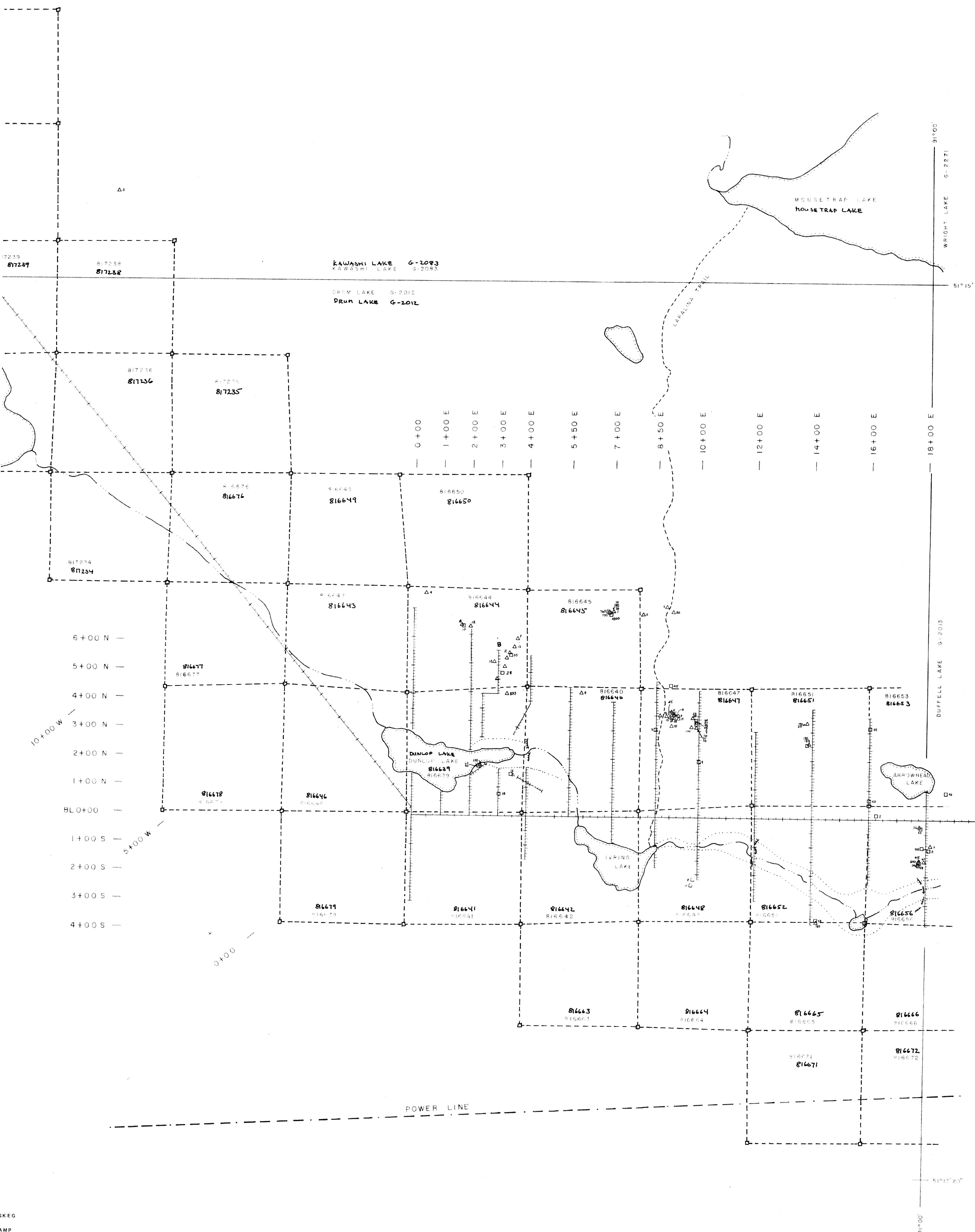
- ND
- MUSKEG
- SWAMP
- CREEK
- CLAIM CORNER & LINES
- CLAIM NUMBER
- CUT GRID LINES (10 metre stations)
- SOIL SAMPLE LOCATION AND NUMBER
- ROCK SAMPLE LOCATION AND NUMBER
- PANEL SAMPLE LOCATION AND NUMBER

520/06SE-0033, #6

ONTARIO GOLD JOINT VENTURE  
 NORTHERN DYNASTY EXPLORATIONS LTD.  
 DEMPSTER LAKE CLAIM BLOCK - WEST  
**SAMPLE LOCATION MAP**

NTS 52 O/3, O/6 DRUM LAKE G-2012, KAWASHI LAKE G-2083

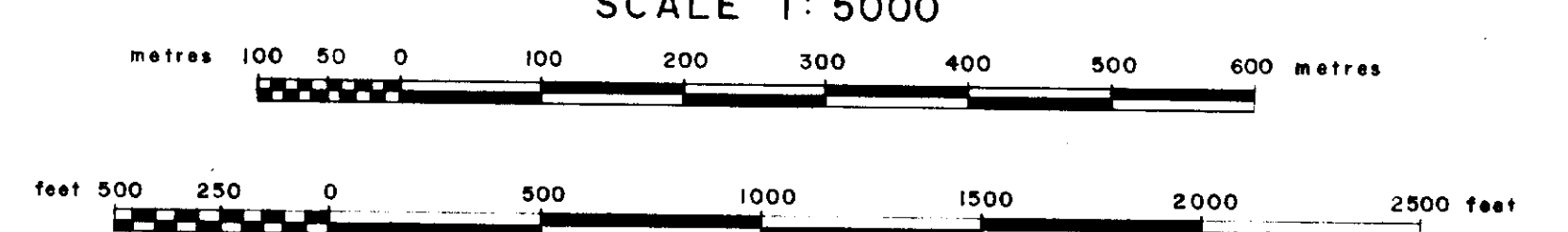




- Δ SUSKEG
- ◻ WAMP
- ◻ CREEK
- ◻ CLAIM CORNER & LINES
- ◻ CLAIM NUMBER
- CUT GRID LINES (10 metre stations)
- SOIL SAMPLE LOCATION AND GOLD VALUE IN P.P.M.
- ◻ ROCK SAMPLE LOCATION AND GOLD VALUE IN P.P.M.
- ◻ PANEL SAMPLE LOCATION AND GOLD VALUE IN P.P.M.

**ONTARIO GOLD JOINT VENTURE**  
 NORTHERN DYNASTY EXPLORATIONS LTD.  
 DEMPSTER LAKE CLAIM BLOCK - WEST  
**GOLD GEOCHEMISTRY**

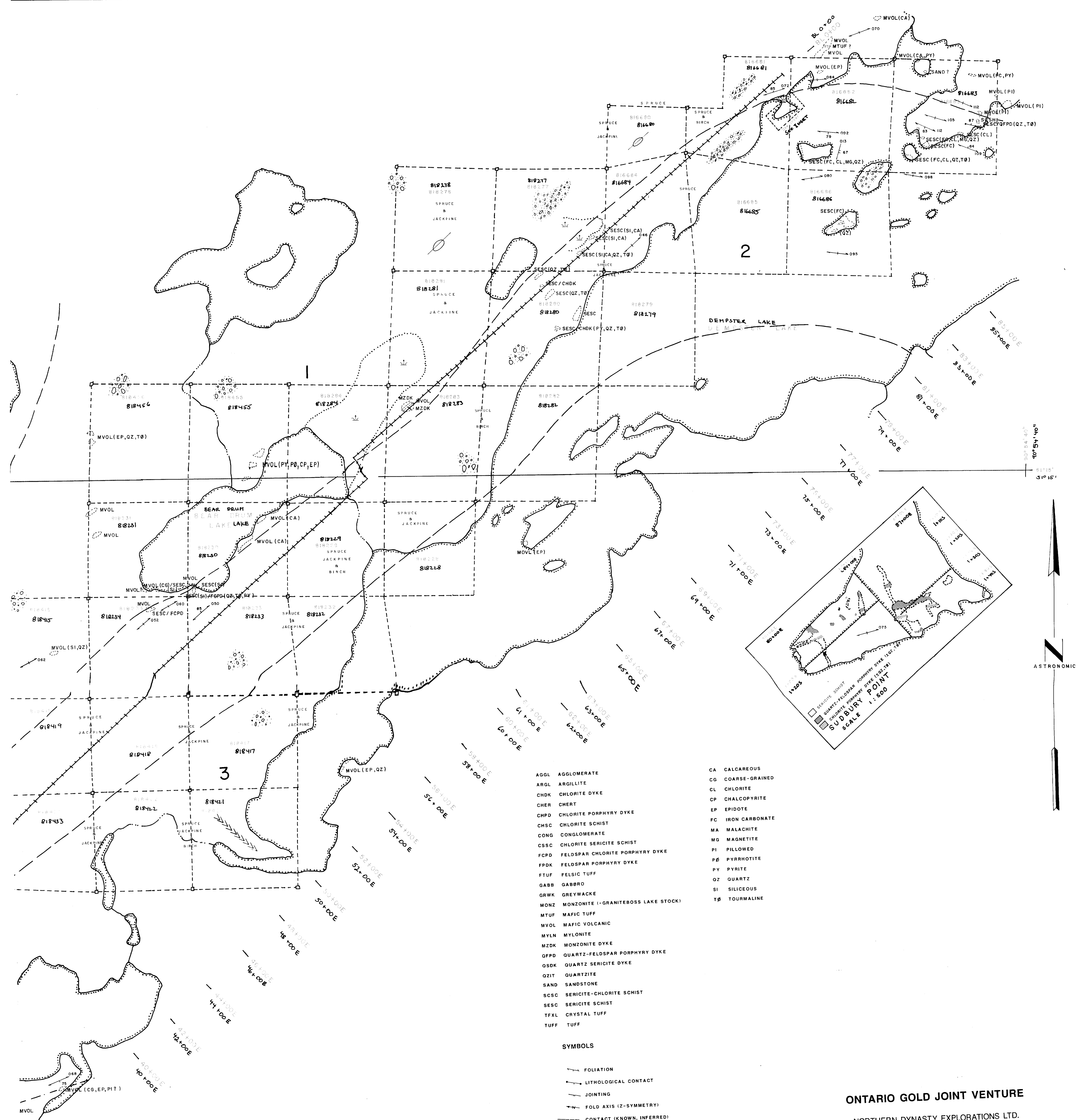
NTS 52 0/3, 0/6 DRUM LAKE G-2012, KAWASHI LAKE G-2083  
 SCALE 1:5000



520/06SE-0033, #7

28727





**LEGEND**

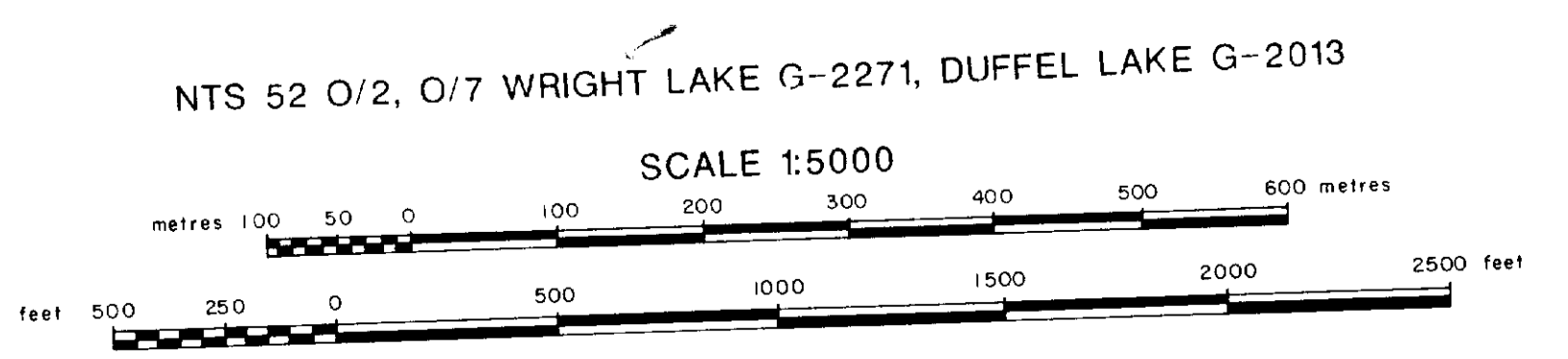
UNIT	ROCK TYPES
4	FELSIC TO INTERMEDIATE INTRUSIVE ROCKS
3	MAFIC METAVOLCANIC AND INTRUSIVE ROCKS
2	INTERMEDIATE TO FELSIC METAVOLCANIC ROCKS
1	MAFIC METAVOLCANIC ROCKS
	MONZONITE TO SYENODIORITE.
	METABASALT FLOWS AND GABBRO SILLS.
	LOCAL CHLORITE SCHIST AND SILICEOUS METASEDIMENTS.
	WELL FOLIATED TO SHEARED, VARIABLY CALCAREOUS, CHLORITIC AND SILICEOUS, SERICITE SCHIST.
	LOCAL FINE TO COARSE-GRAINED PYROCLASTICS, MAGNETITE IRON FORMATIONS AND PORPHYRY DYKES/SILLS.
	VESICULAR AND PILLOWED, VARIABLY CALCAREOUS, SILICIFIED AND CHLORITIC METABASALT FLOWS.
	LOCAL GABBRO, ARGILLITE AND MAGNETITE IRON FORMATIONS.

AGGL	AGGLOMERATE
ARGL	ARGILLITE
CHDK	CHLORITE DYKE
CHER	CHERT
CHPD	CHLORITE PORPHYRY DYKE
CHSC	CHLORITE SCHIST
CONG	CONGLOMERATE
CSSC	CHLORITE SERICITE SCHIST
FCPD	FELDSPAR CHLORITE PORPHYRY DYKE
FPDK	FELDSPAR PORPHYRY DYKE
FTUF	FELSIC TUFF
GABB	GABBRO
GRWK	GREYWACKE
MONZ	MONZONITE (-GRANITEBOSS LAKE STOCK)
MTUF	MAFIC TUFF
MVOL	MAFIC VOLCANIC
MYLN	MYLONITE
MZDK	MONZONITE DYKE
QFPD	QUARTZ-FELDSPAR PORPHYRY DYKE
OSDK	QUARTZ SERICITE DYKE
QZIT	QUARTZITE
SAND	SANDSTONE
SCSC	SERICITE-CHLORITE SCHIST
SESC	SERICITE SCHIST
TFXL	CRYSTAL TUFF
TUFF	TUFF
CA	CALCAREOUS
CG	COARSE-GRAINED
CL	CHLORITE
CP	CHALCOPYRITE
EP	EPIDOTE
FC	IRON CARBONATE
MA	MALACHITE
MG	MAGNETITE
PI	PILLOWED
PØ	PYRRHOTITE
PY	PYRITE
QZ	QUARTZ
SI	SILICEOUS
TØ	TOURMALINE

**SYMBOLS**

- FOLIATION
- LITHOLOGICAL CONTACT
- JOINTING
- FOLD AXIS (Z-SYMMETRY)
- CONTACT (KNOWN, INFERRED)
- GLACIAL STRIATIONS
- OUTCROP
- RIDGE
- >> ESKER
- DRUMLIN
- GLACIAL OVERBURDEN
- MUSKEG
- SWAMP
- CREEK
- CLAIM CORNER & LINES
- CLAIM NUMBER
- CUT GRID LINES (10 metre stations)

**ONTARIO GOLD JOINT VENTURE**  
**NORTHERN DYNASTY EXPLORATIONS LTD.**  
**DEMPSTER LAKE CLAIM BLOCK - EAST**  
**GEOLOGY**



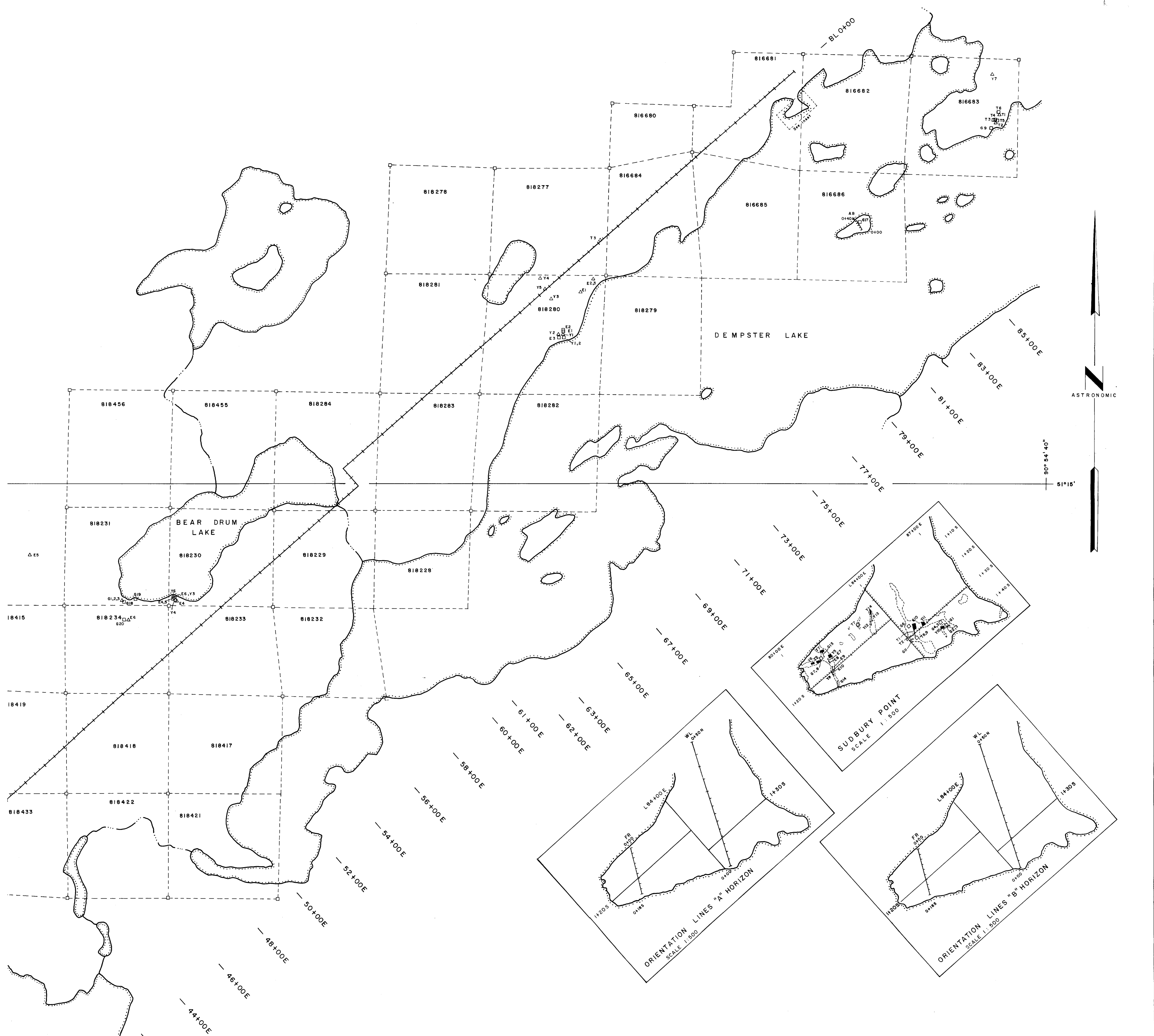
520/06SE-0033 #8

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PLATE 8

28727



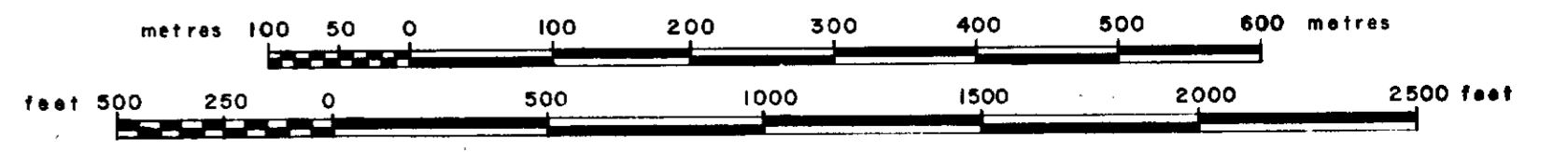


**LEGEND**

- MUSKEG
- SWAMP
- CREEK
- CLAIM CORNER & LINES
- CLAIM NUMBER
- CUT GRID LINES (10 metre stations)
- SOIL SAMPLE LOCATION AND NUMBER
- ROCK SAMPLE LOCATION AND NUMBER
- PANEL SAMPLE LOCATION AND NUMBER
- CHANNEL SAMPLE LOCATION AND NUMBER

ONTARIO GOLD JOINT VENTURE  
 NORTHERN DYNASTY EXPLORATIONS LTD.  
 DEMPSTER LAKE CLAIM BLOCK— EAST  
**SAMPLE LOCATION MAP**

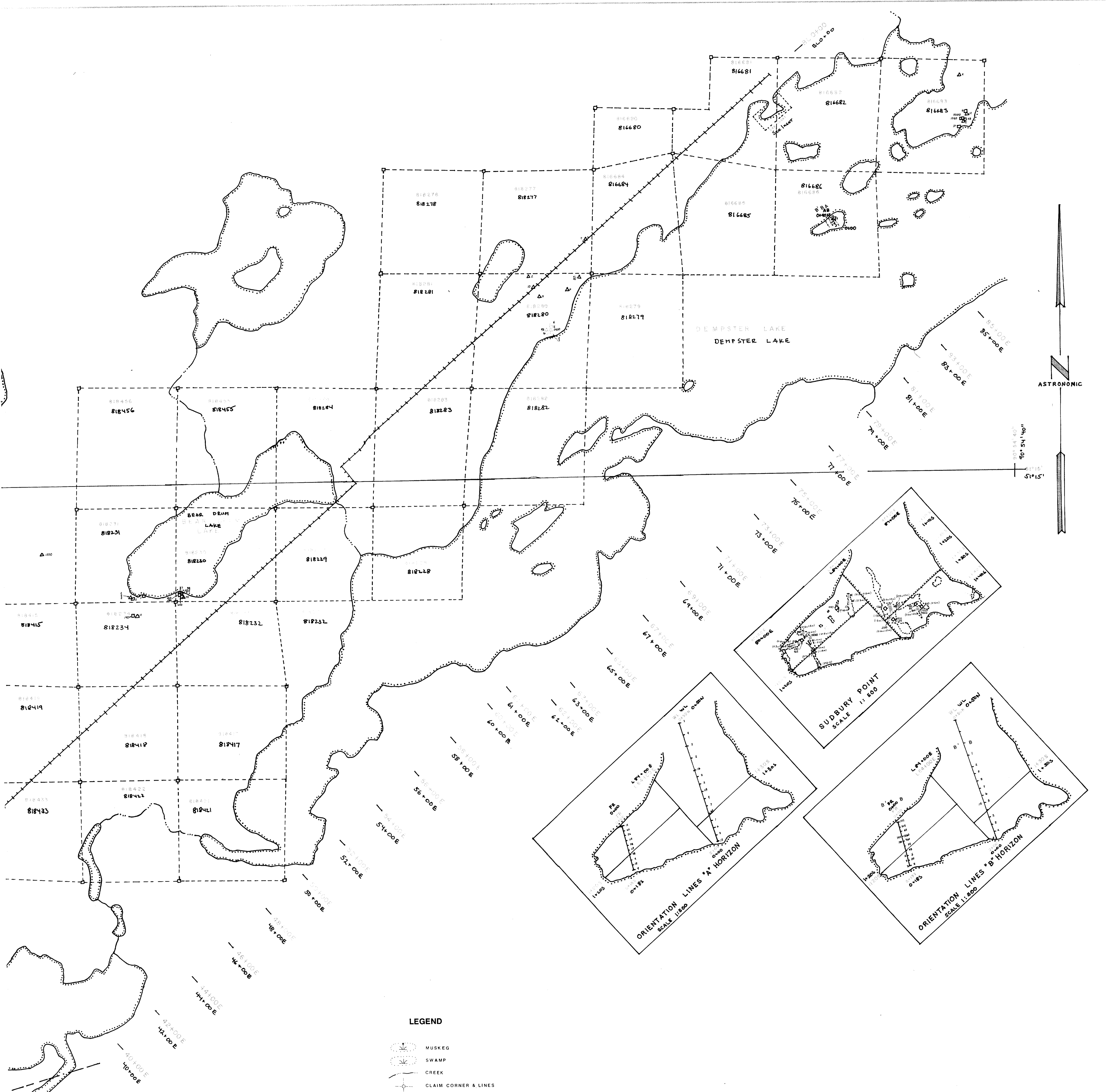
NTS 52 0/2, 0/7 WRIGHT LAKE G-2271, DUFFELL LAKE G-2013  
 SCALE 1:5000



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PLATE 9

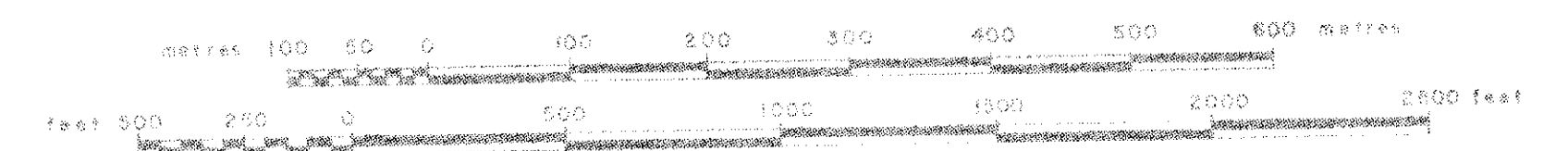


**LEGEND**

- MUSKEG
- SWAMP
- CREEK
- CLAIM CORNER & LINES
- CLAIM NUMBER
- CUT GRID LINES (50 metre stations)
- SOIL SAMPLE LOCATION AND GOLD VALUE IN P.P.B.
- ROCK SAMPLE LOCATION AND GOLD VALUE IN P.P.B.
- PANEL SAMPLE LOCATION AND GOLD VALUE IN P.P.B.
- CHANNEL SAMPLE LOCATION, GOLD VALUE IN P.P.B., SAMPLE LENGTH IN METRES
- GRID SOIL SAMPLE LOCATION AND GOLD VALUE IN P.P.B.

ONTARIO GOLD JOINT VENTURE  
 NORTHERN DYNASTY EXPLORATIONS LTD.  
 DEMPSTER LAKE CLAIM BLOCK - EAST  
**GOLD GEOCHEMISTRY** 28727

N.T.S. 52 0/2, 0/7 WRIGHT LAKE G-2271, GUFFELL LAKE G-2013  
 SCALE 1:5000



520/06SE-0033/#10