

GEOLOGICAL AND GEOCHEMICAL REPORT

DEA CLAIM GROUP



Watson Lake Mining District
Yukon Territory

Longitude : 129° 23' W.
Latitude : 62° 33' N.

N.T.S. 105-I-11

Field Work covering the period
June 3rd to August 8th inclusive, 1973.

Report and Interpretation
October, 1973

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$ 3332.18

J.B. Craig
Resident Geologist or
Resident Mining Engineer

Commissioner of Yukon Territory

By:

Colin I. Godwin, P.Eng. (B.C.) Resident Geologist or
Resident Mining Engineer

DYNASTY EXPLORATIONS LIMITED as representation work under
Section 53 (4) Yukon Quartz Mining Act
October, 1973

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IN POCKET AT BACK OF REPORT

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Map 3 Dea Group Geochemistry - scale 1"= ¼ mile
Map 4 Dea Group Geochemistry - scale 1"= ¼ mile
Map 5 Pits A-ZZ, Dea Group - scale 1"= 1'

TABLE I
LIST OF CLAIMS

<u>Claim</u>	<u>Claim Number</u>	<u>Grant Number</u>	<u>Recording Date</u>
DEA	1-20 incl.	Y71163-Y71182 (Y.T.)	December 18, 1972
DEA	21-34 incl.	A49901-A49914 (N.W.T.)	December 18, 1972

TABLE II
PERSONS INVOLVED IN WORK PROGRAM

John D. Curry	B.Sc., P.Geol.	Apt. 904, 9909-104th St., Edmonton, Alberta
Colin Godwin	B.A.Sc. P. Eng.	330-355 Burrard Street, Vancouver, B.C.
R. Morris	Geological Asst.	c/o Tom Stokie, P.O. Box 92, Ferne, B.C.
G. May	Assistant	1379 W. 58th Avenue, Vancouver 14, B.C.
D. McCune	Geological Assistant	4021 W. 13th Avenue, Vancouver, B.C.
S. Morris	Cook	c/o Tom Stokie, P.O. Box 92, Ferne, B.C.

DYNASTY EXPLORATIONS LIMITED

330 MARINE BUILDING
355 BURRARD STREET
VANCOUVER 1, B. C.

GEOLOGICAL AND GEOCHEMICAL REPORT DEA CLAIM GROUP

INTRODUCTION

Location and Access

The Dea Group is located approximately 108 miles east-northeast of Ross River, Y.T. (see Figure 1), on N.T.S. Sheet 105-I-11 (see Figure 2). The property straddles the boundary between the Northwest Territories and Yukon Territory. Elevation of the property is approximately 5,000 feet and it lies almost entirely above treeline.

Access to the property has been by ski-equipped aircraft in winter on Dyn Lake (see Figure 2) and by helicopter from one of the few lakes (i.e. Cominco Lake) in the area that can be utilized by float planes. Dyn Lake is marginally suitable for float-equipped aircraft. Lake break-up in 1973 was the beginning of July. A winter road from Tungsten, N.W.T. to within nine miles of the property was used by Placer Development during the winter of 1972-73 and construction of an all-weather road between Tungsten and the Placer Howard's Pass property is likely.

General

Claims Dea 1 to Dea 34 were staked by Welcome North Mines Ltd. during the winter of 1972-73 in response to the Placer lead-zinc discoveries in the Howard's Pass area (see Table I - List of Claims). In the spring of 1973 the claims were optioned by Dynasty Explorations Limited who undertook the 1973 exploration program.

DYNASTY EXPLORATIONS
SELWYN PROJECT-1973

CLAIM GROUPS:

- A: Prevo
- B: Pas
- C: Gull and Dyn
- D: Dea
- E: Tam
- F: Joy and Ajax
- G: Tap
- H: Ms
- I: Sand
- J: Gun
- K: Kee

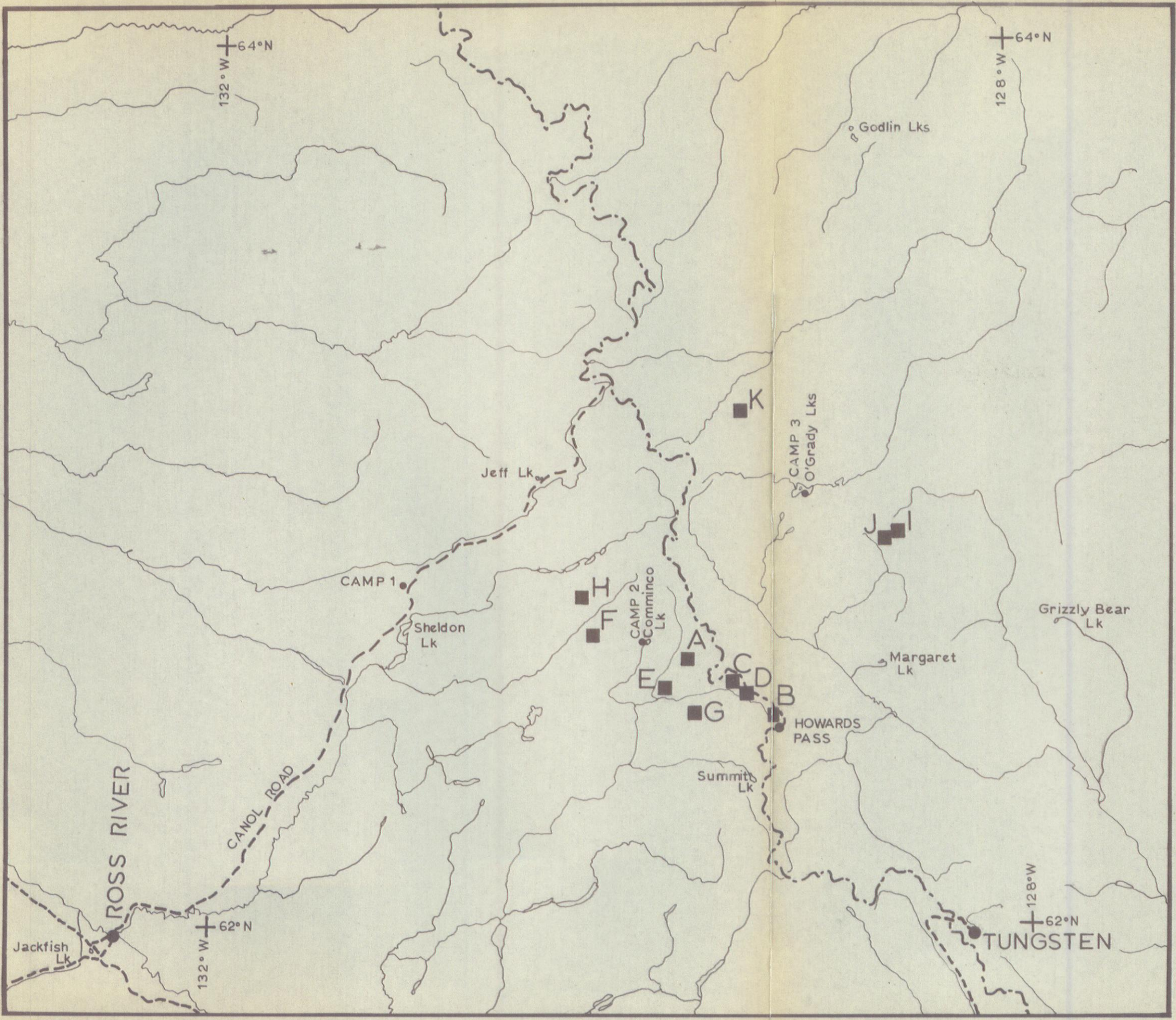
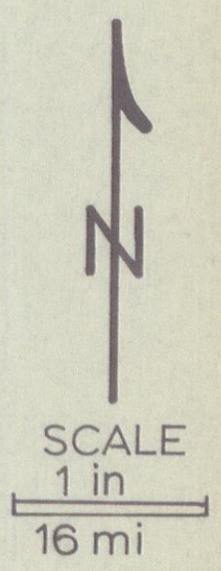
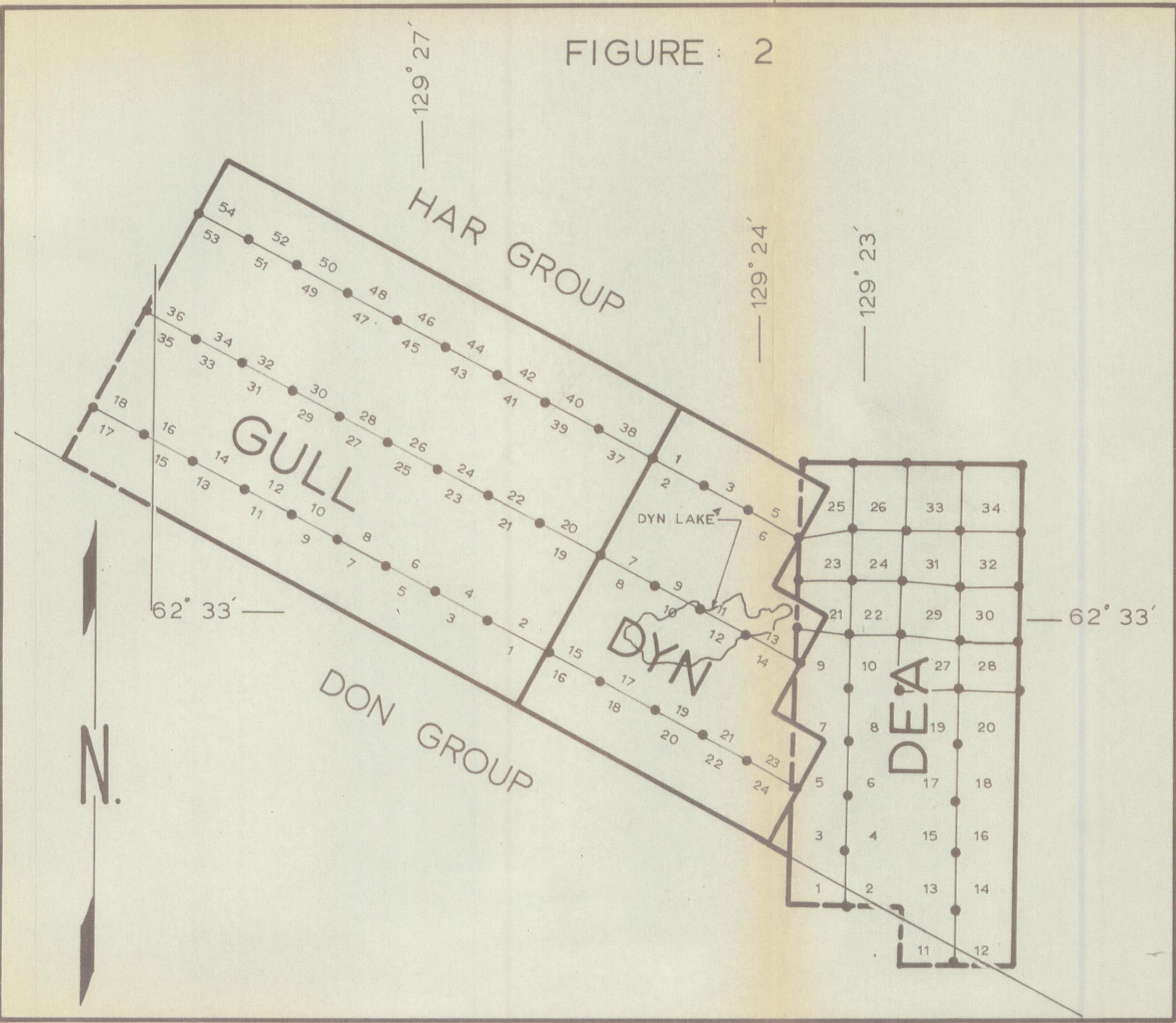


FIGURE 1:
Index Map
Claim Groups

FIGURE 2

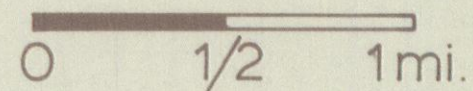


DYNASTY EXPLORATIONS

GULL DYN DEA GROUPS

N.T.S.: 105 I-11

Scale: 1 in. = 1/2 mi.



LEGEND

- claim outline
- claim post
- 1/2 — claim line, name

SELWYN PROJECT

1973

Reconnaissance geochemical samples were collected over the 17 days from June 23rd to July 19th, 1973, and the group was mapped on a scale of 1 inch to $\frac{1}{4}$ mile. On August 7th and 8th, 1973, a line of 26 pits were put down along a section 3,400 feet long in the central part of the claims and geochemical soil and rock samples were collected. This region is moderately anomalous in copper and zinc.

Table II is a list of persons involved in the work program.

GEOCHEMISTRY

General

Table III classifies the type and number of samples taken on Dea Group. Analyses for copper, lead and zinc were performed by Acme Analytical Laboratories Ltd., 6455 Laurel Street, Burnaby 2, B.C. Analysis was by atomic absorption on perchloric acid digestion of a minus 80 mesh sample.

TABLE III: CLASSIFICATION OF DEA SAMPLES

<u>Type</u>	<u>Approx. Area</u>	<u>Geochem: Cu, Pb, Zn.</u>		
		<u>Soil</u>	<u>Rock</u>	<u>Silt</u>
Regional	2.8 sq. mi.	290	6	36
Detail	(26 pits over 3,400 ft.)	49	16	
	TOTALS	<u>339</u>	<u>32</u>	<u>36</u>

Integrated Value

An even number called here the integrated value for copper, lead and zinc is plotted at each sample site with a letter (C for copper, P for lead and Z for zinc) that defines the abundant metal(s) or metal characteristic(s) at the site.

Table IV shows how to calculate an integrated metal value for a site. The purpose of this scheme is to provide a summary map that will ensure that no anomalies from a single or additive geochemical result are lost. Zoning of metals should become apparent from progressions in metal characteristics.

TABLE IV: CALCULATION OF INTEGRATED VALUE AND METAL CHARACTERISTIC

A geochemical interpretation scheme for a total value representing copper + lead + zinc with pH taken into account.

RANGE (PPM) AND COLOUR

<u>Metal</u>	<u>Red (925)</u>	<u>Green (909)</u>	<u>Blue (903)</u>
Copper	≥ 120	90 - 119	70 - 89
Lead	≥ 50	40 - 49	30 - 39
Zinc	≥ 1000	600 - 999	300 - 599
Value	6	4	2

Notes:

(a) Adjustment for pH

if pH ≤ 5.0:

Copper, multiply ppm by 2
 Lead, do not change
 Zinc, multiply ppm by 5

(b) Bonus for High Results

<u>Bonus</u>	<u>Copper</u>	<u>Lead</u>	<u>Zinc</u>
2	240-359	100-149	2000-2999
4	360-479	150-199	3000-3999
6	≥ 480	≥ 200	≥ 4000

(c) Colour code for total value: Copper + Lead + Zinc

<u>Value</u>	<u>Colour</u>	<u>Interpretation</u>
≥ 18	Red (925)	High anomaly
12 to 16	Orange (918)	Intermediate anomaly
8 & 10	Green (909)	Low anomaly
6	Blue (903)	High threshold
4	Purple (931)	Low threshold
2 & 0	Blank	Background

(d) Metal character noted for copper, lead and zinc by: C, P, Z, respectively, only if value for each metal is ≥ 6.

Reconnaissance Geochemistry

Map 1 is a blow-up print of air photo A12343-355 to a scale of 1 inch to $\frac{1}{4}$ mile. Map 3, a print of an overlay of Map 1, shows locations for all reconnaissance samples with sample name, type, pH (where applicable) and an integrated value for copper, lead and zinc. Map 4, a print of an overlay of Map 1, shows copper, lead and zinc results from reconnaissance geochemistry. Moderately interesting results were obtained in an area defined by a section through samples S3B387 to S3Y498.

Detail Geochemistry

Twenty-six pits varying in depth from one foot to 3.5 feet were established along a 3400 foot section through samples S3B387 to S3Y498 (see Map 1 and Map 3). Spacing between pits was 100 or 200 feet. Map 5 shows locations of pits, cross-section of pits, soil and bedrock detail, sample locations, sample results and an integrated value for each sample. Moderately anomalous copper and zinc values occur in the central part of the section with a rock geochemical sample returning 2,050 ppm in zinc and a soil sample returning 192 ppm copper. Reconnaissance and detailed geochemical work do not define any significant target areas.

GEOLOGY

Map 2 is a print of an overlay for Map 1 and shows the general geology of Dea Group. Table V illustrates geological formations on the group. 'Wavy-bedded' limestone consisting of laminated buff and black-weathering dolomitic rock and grey limestone pebbles and bands is the lowest member of the sequence on Dea Group. The unit probably grades upwards into thinly laminated buff and black-weathering 'transitional' dolomitic rock, which is not seen in outcrop or float. Unit 1a is a grey to black shaley limestone unlike the wavy-bedded limestone and may be more closely related to Unit 4. Unit 4 probably underlies part of the northern section of the group and also parts of claims 21 and 23, although no outcrop or float of the unit is known. The neighboring Dyn Group has a few outcrops of black, sometimes calcareous, shale (Unit 4) which appear to be stratigraphically similar to the shales which host lead-zinc mineralization in the Howard's Pass area. The shale is probably overlain by buff-weathering, pyritic, sometimes dolomitic and/or calcareous argillite (Unit 5), but does not outcrop. The extreme northern sector of the group is underlain by black shales (Unit 6).

Two anticlinal structures traverse the group in an east-southeasterly direction and are defined by ridges of 'wavy-bedded' limestone. Confusing attitudes in the vicinity of the contact between Unit 1 and 1a in the southern part of the claims may indicate the presence of a fault along this contact.

The northern anticlinal feature is well-defined by attitudes in the wavy-bedded limestone. Again, the limey horizons (Unit 1a) which occupy the synclinal trough between the anticlinal structures may have a closer relationship to Unit 4 than to Unit 1.

A fault trending approximately 030° across the northwest corner of the group exhibits right-handed offsets principally in the 'wavy-bedded' limestone unit.

More detailed mapping is not predicated because outcrops on the group are scarce. The geochemical sampling indicated Unit 1a to be the most favourable for lead-zinc mineralization but only one outcrop was noted, due to recessive weathering of this unit.

TABLE V: GEOLOGICAL FORMATIONS

6	Black (calcareous) shale
5	Buff to orange weathering argillite, with black streaks, sometimes dolomitic and calcareous; pyrite blebs, disseminated pyrite.
4	Black shale, partly calcareous; cherty shale, some pyrite
1a	Grey to black shaly limestone
1	Wavy-bedded limestone transitional rock plus grey limestone pebbles and bands.

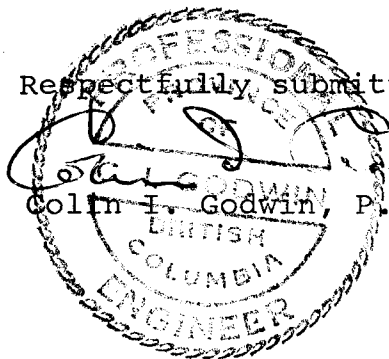
SUMMARY

Moderately anomalous copper and zinc geochemical values were obtained from soils, silts and rocks in the area underlain by Unit 1a. This shaley limestone is probably closely related to the favourable black calcareous shale and siliceous mudstone, associated with the Howard's Pass lead-zinc occurrences. Twenty-six orientation pits dug in this region in order to obtain geochemical profiles did not outline any significant target areas or suggest reinterpretation of surface sampling to date.

RECOMMENDATIONS

No strong targets have emerged from work conducted on Dea Group to date. The fact that there is a comparable geological section between Howard's Pass and the Dea Group is encouraging. Sufficient work has been done in order to hold the claims at least until December 18th, 1974. No further work is recommended at this time, although the geology of the region may be better understood in the near future and additional work might then be considered.

Respectfully submitted,



Colin I. Godwin
Colin I. Godwin, P. Eng. (B.C.)
PROFESSIONAL ENGINEER
BRITISH COLUMBIA

October, 1973

Appendix I
 Schedule "A"

SUMMARY OF COSTS
DEA CLAIM GROUP

	<u>Schedule Number</u>	<u>Wages</u>	<u>Expenditures</u>	<u>Total</u>
Geology	"B"	\$1,010.78	\$	
Geochemistry	"C"	608.46		
Assays	"C"		691.34	
Camp & Field Costs	"D"	72.26	797.45	
Miscellaneous Transport.	"E"		246.84	
Rotary Wing	"E"		954.26	
Fixed Wing	"E"		191.67	
		<u>\$1,691.50</u>	<u>\$2,881.56</u>	<u>\$4,573.06</u>
District Expense	6%			<u>\$ 274.38</u>
				<u>\$4,847.44</u>
Administration	10%			<u>\$ 484.74</u>
				<u>\$5,332.18</u>

Expenditure Distribution:

Claims in Yukon Territory	2,500.00	
Claims in N.W.T.	<u>2,832.18</u>	<u>\$5,332.18</u>

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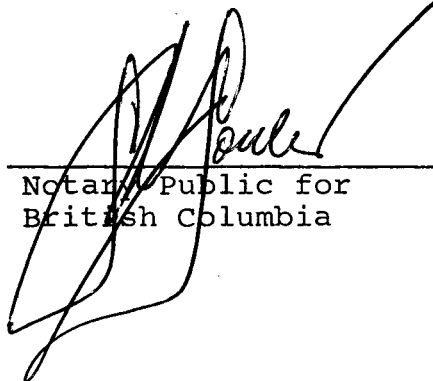
330 MARINE BUILDING
355 BARRARD STREET
VANCOUVER 1, B. C.

AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, COLIN GODWIN, Geologist, Dynasty Explorations Limited, of Vancouver, British Columbia, do hereby state that, to the best of my knowledge and belief, the statement of costs presented in this report (Geological and Geochemical Report - Dea Group) is both correct and true.


Colin Godwin

28 Nov. 1973.
Date


Notary Public for
British Columbia



COL GROUP

DYN GROUP

DEA GROUP

LEGEND

- claim posts
- claim name
- claim line
- - - claim boundary

DYNASTY EXPLORATION
DYN-DEA GROUPS

1:50,000

MAP

GULL

A123456789

DYN GROUP

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S-AA-DD

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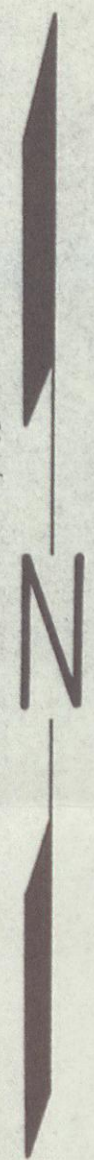
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GULL GROUP

COL GROUP

DYN

DYN GROUP

DON GROUP

LEGEND

- claim post
- claim name
- claim line
- claim boundary
- ⋈ bedding: vert., dipping, hor.
- ⋈ axial cleavage: vert., dipping
- lineation
- ⋈ joint (AC): vert., dipping
- ⋈ horizontal trace of anticline, syncline; plunging
- outcrop
- talus, float
- contact
- fault

GEOLOGICAL UNITS

- 6 black (calcareous) shale buff to orange weathering argillite, with black streaks, sometimes dolomitic and calcareous; pyrite blebs, disseminated pyrite.
- 5 black shale, partly calcareous; cherty shale, some pyrite
- 4 grey to black shaly limestone wavy bedded limestone transitional rock plus grey limestone pebbles and bands
- 1a
- 1

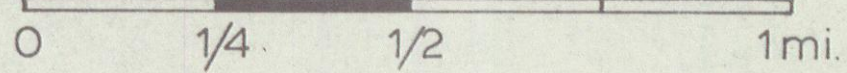
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DEA GROUP

N.T.S.: 1051 - 11

GEOLOGY

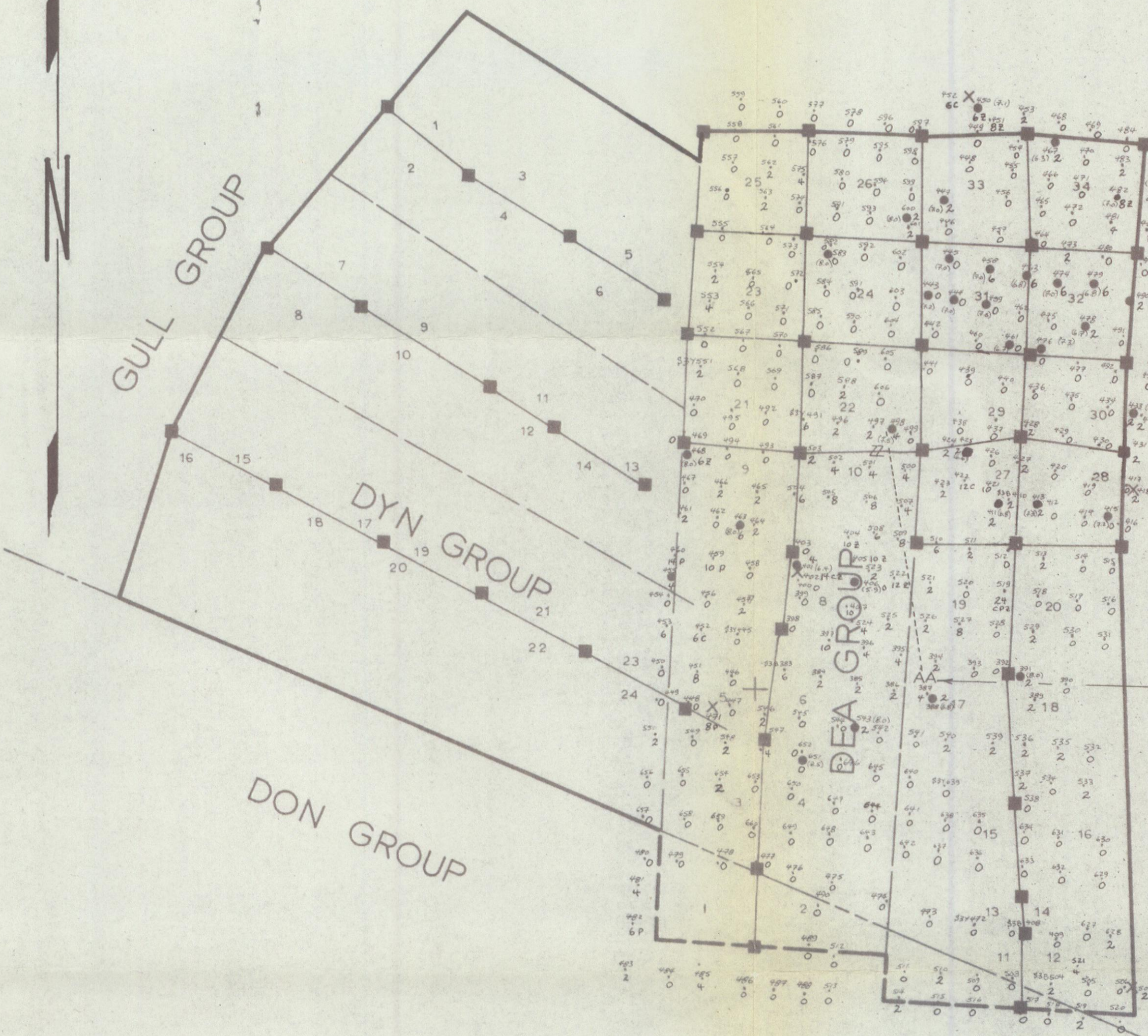
Scale: 1 in. 1/4 mi.



Geology by: John D. Curry & ROBERT J. MORRIS

MAP: 2

photo no: A 12343-355



COL GROUP

DYN GROUP

DON GROUP

LEGEND

- claim post
- - - claim name
- - - claim line
- claim boundary
- rock x = sample type
- silt •
- soil o
- other o
- S3C457 - sample no.
- (6.5) - pH
- 12 - integrated metal value
- C=Cu , P=Pb , Z=Zn metal character

Map 5

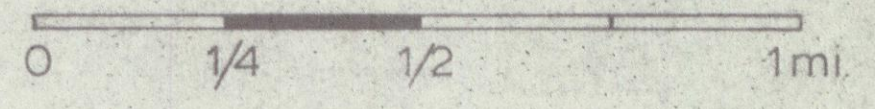
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DEA GROUP

N.T.S. 1051-11

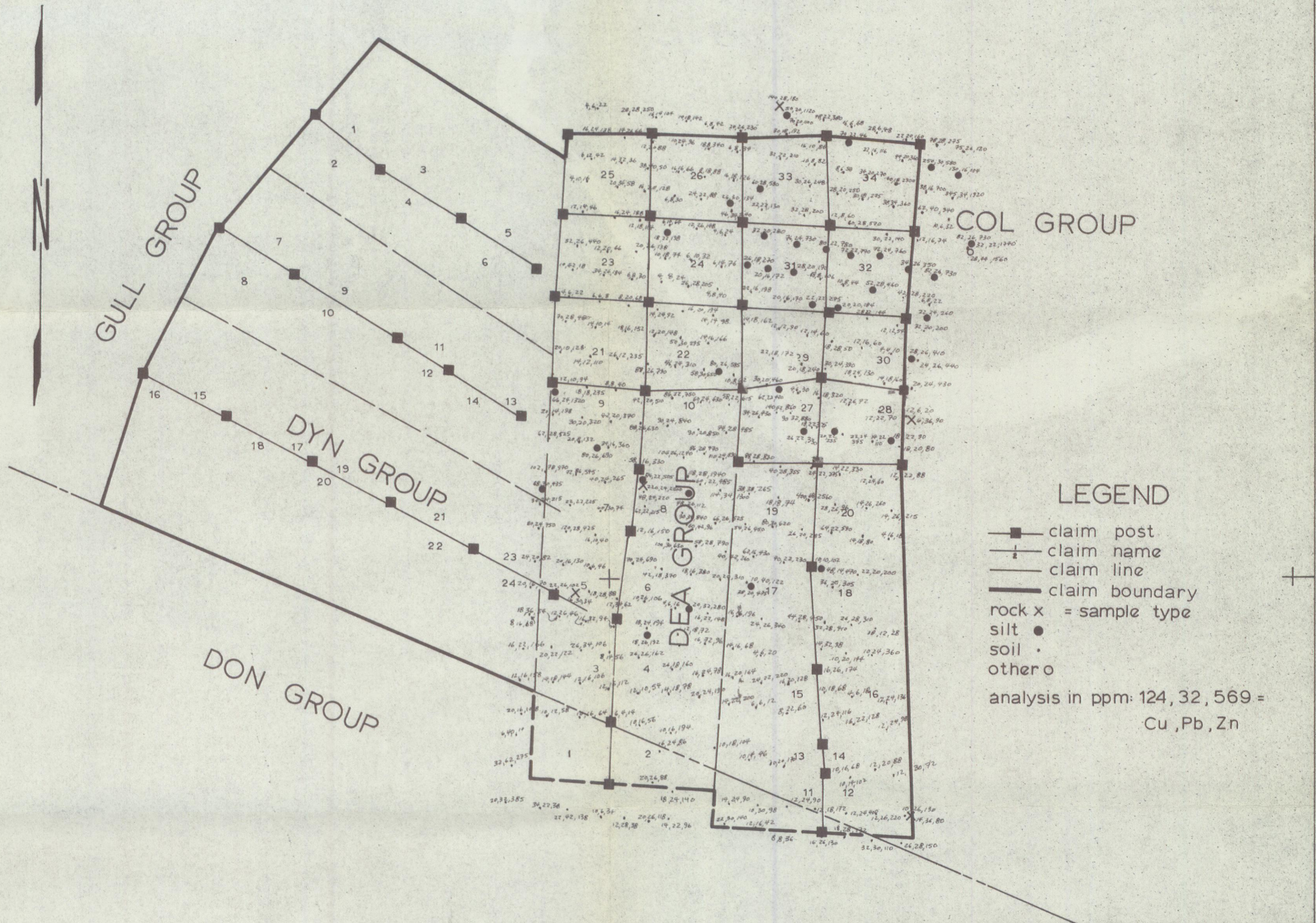
GEOCHEMISTRY

Scale: 1 in. = 1/4 mi.



MAP: 3

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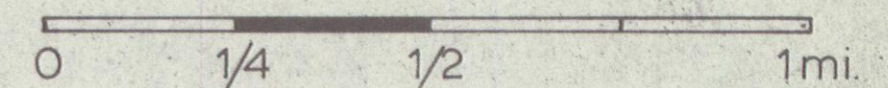
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DEA GROUP

NTS: 1051 - 11

GEOCHEMISTRY

Scale: 1 in. 1/4 mi.



MAP: 4

photo no: A 12343-355

