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Yukon Territory

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WHITEHORSE, Y.T.

GEOLOGICAL AND GEOCHEMICAL REPORT

GULL CLAIM GROUP

Watson Lake Mining District
Yukon Territory

Longitude : 129°27' W.
Latitude : 62°34' N.

N.T.S. 105-I-11

Field Work covering the period
June 24th to August 10th, 1973

Report and Interpretation
October, 1973

By:

John D. Curry, P. Geol.

DYNASTY EXPLORATIONS LIMITED

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

$ 10,394.13

Resident Geologist or
~~Resident Mining Engineer~~

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

Commissioner of Yukon Territory

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TABLE I

LIST OF CLAIMS

Claim	Claim Number	Grant Number	Recording Date
GULL	1-54 inclusive	Y70509-Y70562	November 20, 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 1, B.C.
D. McCune	Geological Assistant	4021 W.13th Avenue, Vancouver, B.C.
G. May	Assistant	1379 W.58th Avenue, Vancouver 14, B.C.
L. Dellow	Assistant	1620 E.36th Avenue, Vancouver 15, B.C.
S. Morris	Cook	c/o Tom Stokie, P.O. Box 92, Fernie, B.C.

TELEPHONE 685-4331

DYNASTY EXPLORATIONS LIMITED

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

GEOLOGICAL AND GEOCHEMICAL REPORT
GULL CLAIM GROUP

INTRODUCTION

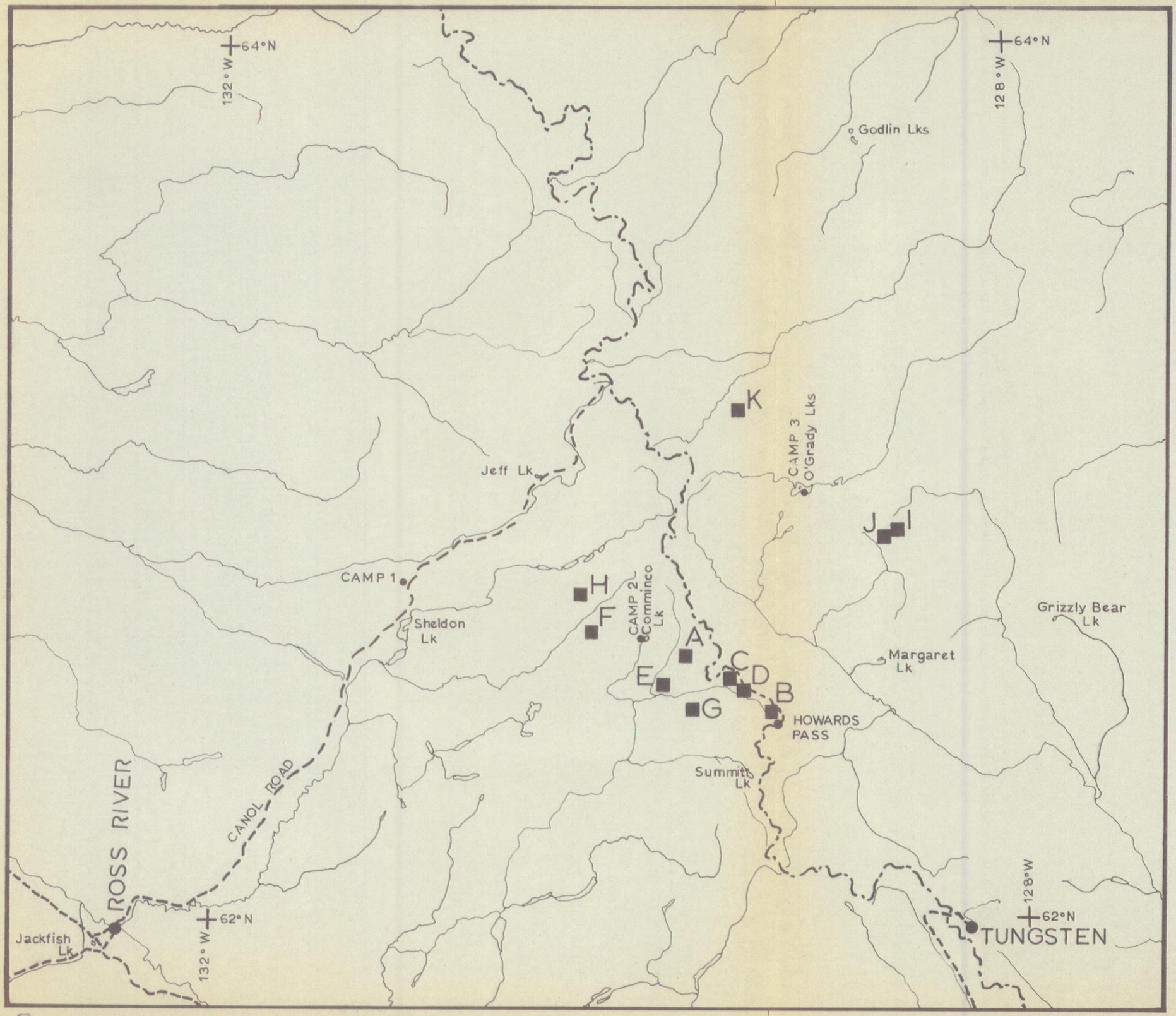
Location and Access

The Gull 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 is in Yukon Territory but adjacent to Northwest Territories. Elevation of the property is approximately 4,700 feet and lies mainly below 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 and break-up for this lake in 1973 was the beginning of July. A winter road from Tungsten, N.W.T. to within twelve 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 Gull 1 to 54 were staked during the winter of 1972-73 in response to the Placer lead-zinc discovery at Howard's Pass (see Table I - List of Claims).



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

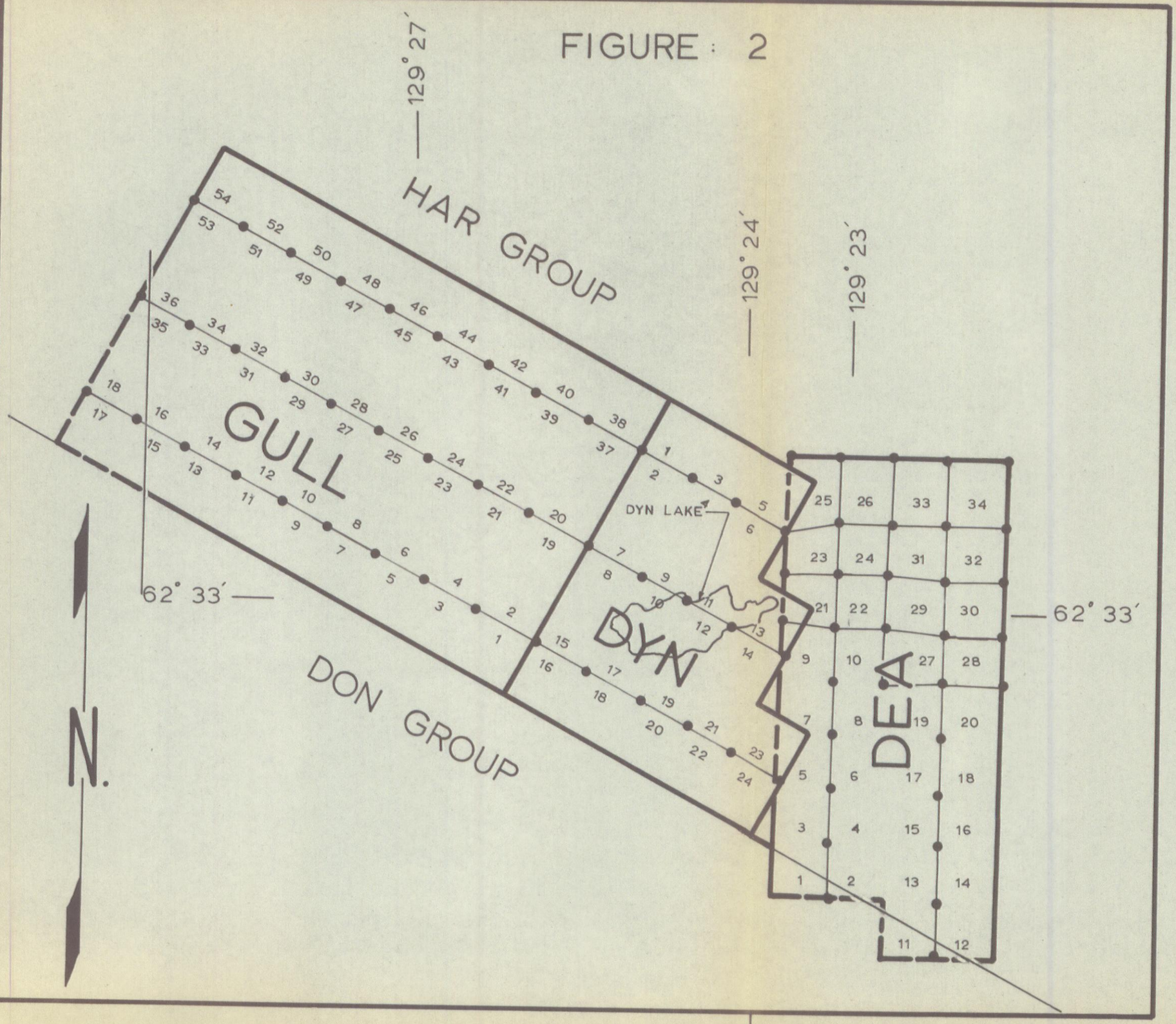
K: Kee

N

SCALE
1 in
16 mi

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.

0 1/2 1 mi.

LEGEND

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

SELWYN PROJECT

1973

Reconnaissance geochemical samples were collected over the eleven days from June 24th to July 4th and the fourteen days from July 13th to July 26th, 1973. During these periods the group was also mapped on a scale of 1 inch to ¼ mile. A detailed grid was established and soil samples were collected on part of the grid over the four days from August 7th to 10th, 1973. Significant geochemical response was encountered in the detailed area and further work is warranted.

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 the Gull 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 minus 80 mesh.

TABLE III: CLASSIFICATION OF GULL SAMPLES

Type	Approx. Area	Geochem: Cu, Pb, Zn. Soil	Rock	Silt
Regional	3.8 sq. mi.	296	0	48
Detail	1400' x 3400' 4.8 M.sq. ft. 5.0 line miles	291	3	0
	TOTALS	587	3	48

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

Notes:

(a) Adjustment for pH

if pH $\leq$ 5.0:

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

(b) Bonus for High Results

Bonus	Copper	Lead	Zinc
2	240-359	100-149	2000-2999
4	360-479	150-199	3000-3999
6	$\geq$ 480	$\geq$ 200	$\geq$ 4000

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

Value	Colour		Interpretation
$\geq$ 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 $\geq$ 6.

Reconnaissance Geochemistry

Map 1 is a blow-up of air photo A12270-240 to a scale of 1 inch to ¼ 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 3A shows worm diagram and contour interpretation of the values plotted on Map 3; the area of detailed grid is shown. Map 4, a print of an overlay of Map 1, shows copper, lead and zinc results for reconnaissance geochemistry. Maps 4A, 4B and 4C show worm diagram and contour interpretation for copper, lead and zinc respectively.

The regional geochemical survey outlines several strong anomalies. The main ones trend north-south at right angles to suggested geological trends. These anomalous areas are only partly covered by the detailed follow-up survey.

Detail Geochemistry

Maps 5 to 8 show the detailed grid coverage at 1 inch to 200 feet for value, copper, lead and zinc. They also show details of a pit hand dug at 0+00S, 0+00E,W.

The value and lead plots show two anomalies (details of numbers and types of samples shown in Table III), one in the northwest corner of the grid (open to the north and west), the other in the southwest corner of the grid (open to the south and west). Copper and zinc anomalies also coincide with these areas but are more diffuse. Results in the northwest anomaly are up to: value, 16 PZ; ppm copper 50; ppm lead 450; ppm zinc 1300. Results in the southwest anomaly are up to: value, 26 PZ; ppm copper 78 ppm lead 325; ppm zinc 2500.

The pit intersected white, crystalline limestone at 22 inches depth. Rock fragments from this pit returned only moderately anomalous geochemical values while soil samples were highly anomalous. This is consistent with stronger part of the northwestern anomaly occurring to the west of this pit site. In other words, the soil anomaly is not directly related to bedrock but suggests dispersion from a source one or two hundred feet to the west.

Detailed geochemistry validates the general location and type of anomaly outlined by the regional survey. Large areas of regional anomaly remain to be examined in detail. Coverage of the detailed survey is not extensive enough to validate the suggested north-south trend of the regional survey which appears to be at right angles to known geological trends.

GEOLOGY

Map 2, a print of an overlay of Map 1, shows the general geology of Gull Group. Table V illustrates geological formations on the group. 'Wavy-bedded' limestone (Unit 1) consisting of laminated buff and black-weathering dolomitic rock and grey limestone pebbles and bands is the lowest member of the sequence underlying Gull Group. The unit probably grades upward into thinly laminated buff and black-weathering 'transitional' dolomitic rock (Unit 2), which is not seen in outcrop or float. Sub-unit 1b is a grey to brown non-calcareous phyllite, which is intimately associated with the 'wavy-bedded' limestone on claim 31 and probably is very local in extent. On claim 13 some black shale float (Unit 4?) indicates that at least some of the Gull claims are underlain by the favourable black shales that host the lead-zinc occurrences at Howard's Pass and overlie 'wavy-bedded' limestone and 'transitional' rock.

The west-northwesterly limestone ridges along the northeastern and southwestern sides of the property probably coincide with anticlinal structures. Little outcrop occurs in the topographic low between the ridges and this low is probably underlain in part by favourable shales.

A fault trending at 030^{o} across the easterly part of the group exhibits right-handed offsets.

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	Phyllite
1	Wavy-bedded limestone transitional rock plus grey limestone pebbles and bands.

SUMMARY

Strongly anomalous values in lead and zinc outline a number of favourable areas which have been only partly followed-up by detailed sampling. Known trends appear to be at right angles to known geological trends but more detail is required to resolve this point. Anomalous geochemistry and the probable occurrence of the favourable black shales that host the lead-zinc occurrences at Howard's Pass are attractive.

RECOMMENDATIONS

The anomalous geochemistry and likely occurrence of shales favourable to lead-zinc mineralization suggest the following:

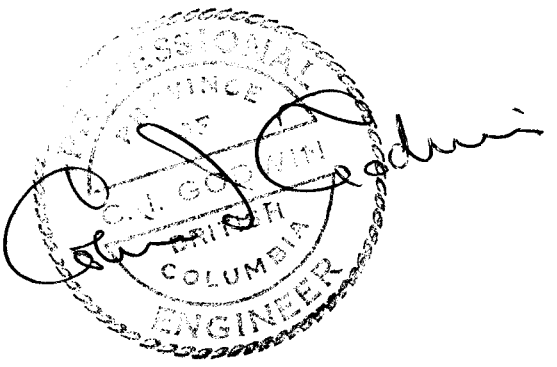
1. Extension of detail grid to cover main north-south geochemical anomaly.
2. Bulldozer stripping across anomalies outlined on detailed scale with appropriate sampling.

In the event that a bulldozer does not become available on the property, drilling and/or hand trenches and pits are predicated.

Respectfully submitted,

John D. Curry, P. Geol.

November, 1973.



Appendix I

Schedule "A"

DYNASTY EXPLORATIONS LIMITED
SUMMARY OF COSTS
TO OCTOBER 31, 1973
GULL CLAIM GROUP

	Schedule No.	Wages	Expenditures	Total
Geology	"B"	$2,562.67	$	$
Geochemistry	"C"	908.11		
Assays	"C"		1,036.56	
Camp	"D"	72.26	1,325.19	
Miscellaneous Freight and transportation	"E"		295.44	
Rotary Wing	"E"		2,361.30	
Fixed Wing	"E"		309.93	
	Note (1)	$3,543.04	$5,328.42	$8,871.46
District Expense	6%			532.29
				$9,403.75
Administration	10%			940.38
		TOTAL		$10,344.13

Note: (1) Receipts attached for all expenditures over $200.00; Receipts for lesser amounts provided upon request.

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DYNASTY EXPLORATIONS LIMITED

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355 BURRARD 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 - Gull Group) is both correct and true.

Colin Godwin

Colin Godwin

16 November 1973

Date

Dennis A. Patton

A Notary Public for
British Columbia

LEGEND

GULL CLAIM POSTS

CLAIM LINE, NAME

CLAIM BOUNDARY

DYNASTY EXPLORATIONS LTD

GULL GROUP

NTS 106 I/1

Scale 1/4 mi

0 1/4 1/2 1mi

MAP 1

HAR GROUP

DYN GROUP

DOV Group

grid area for maps 5-8

A12276-240

MAP 2: GEOLOGY

DYNASTY EXPLORATIONS LTD.

GULL GROUP
NTS 1051-11

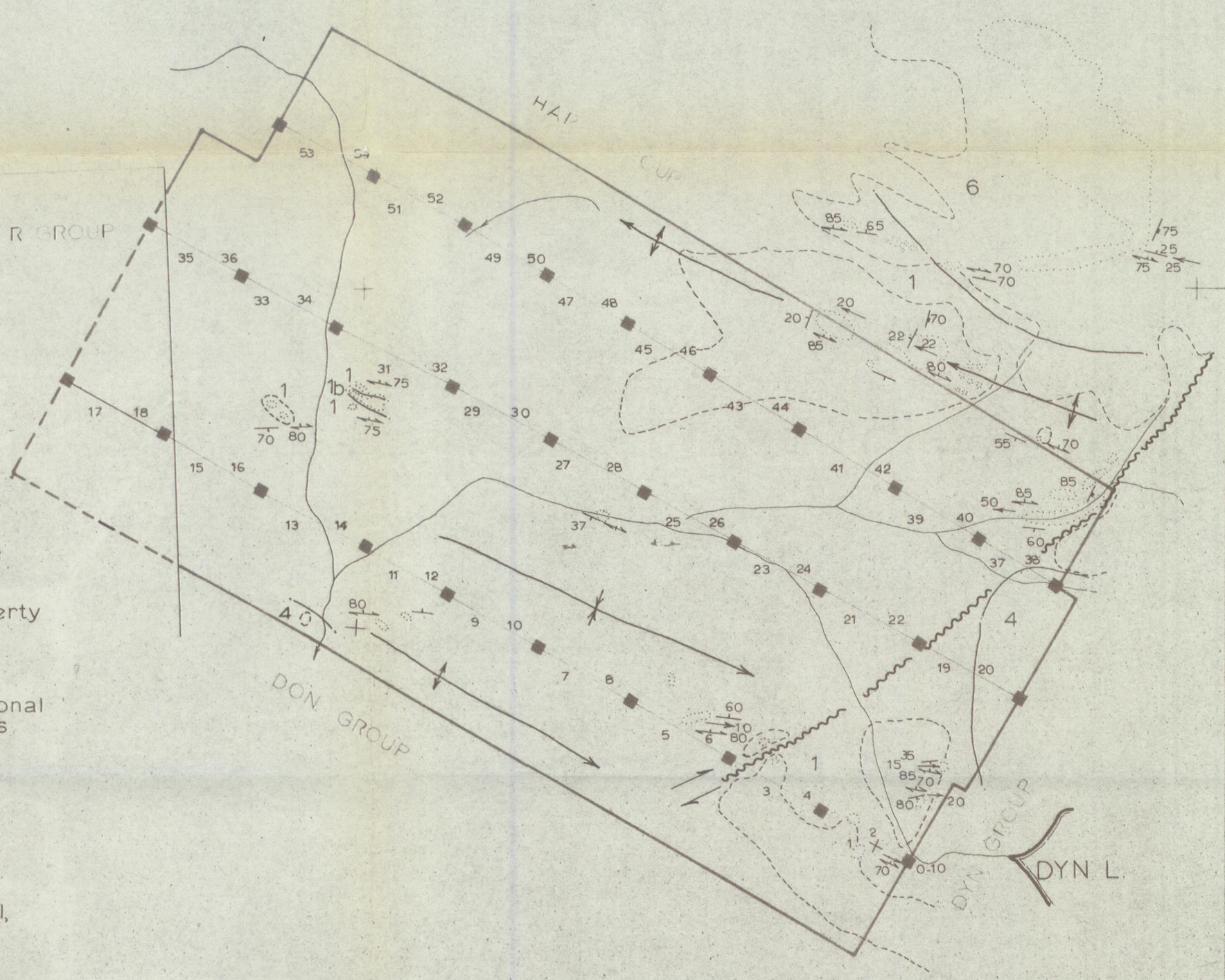
Scale 1 in = 1/4 mi

0 1/4 1/2 1 mi

LEGEND

- GULL CLAIM POSTS
- 1/2 CLAIM LINE, NAME
- CLAIM BOUNDARY

N



GEOLOGICAL UNITS

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

- bedding: vert., dipping, hor.
- axial cleavage: vert., dipping
- lineation
- joint (AC): vert, dipping
- horizontal trace of anticlinal, synclinal axis; plunging
- outcrop
- talus, float
- contact
- fault

GEOLOGY BY: JOHN D. CURRY

photo A12270-240

N

MAP 3 : GEOCHEMISTRY

DYNASTY EXPLORATIONS LTD.

GULL GROUP
NTS 1051-11

Scale 1 in = 1/4 mi

0 1/4 1/2 1mi

LEGEND

- GULL CLAIM POSTS
- CLAIM LINE, NAME
- CLAIM BOUNDARY
- SITE: SILT, SOIL, ROCK

6 – INTEGRATED VALUE
S3M752 – SITE, NAME
7.0 – pH

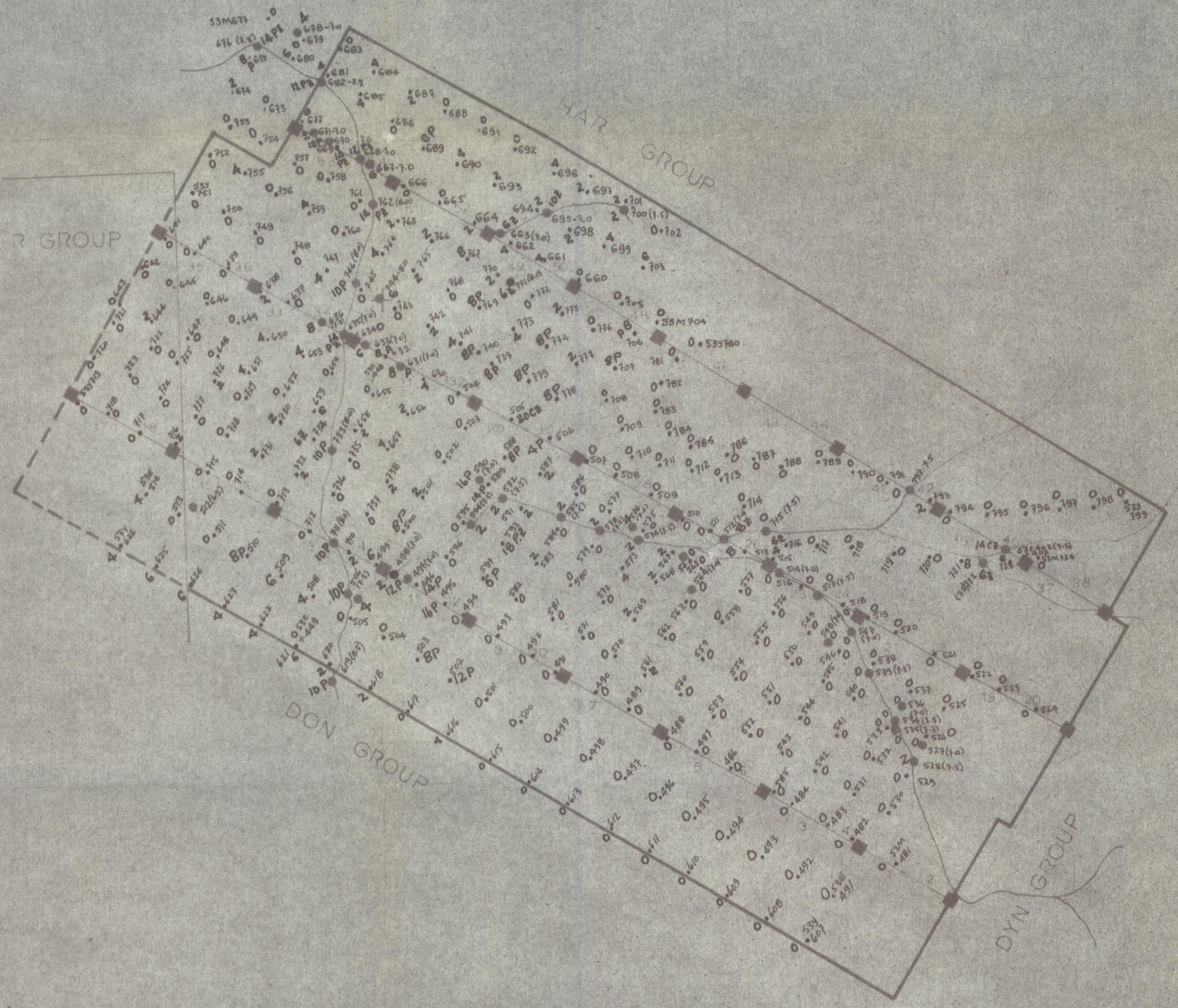


photo A12270-240

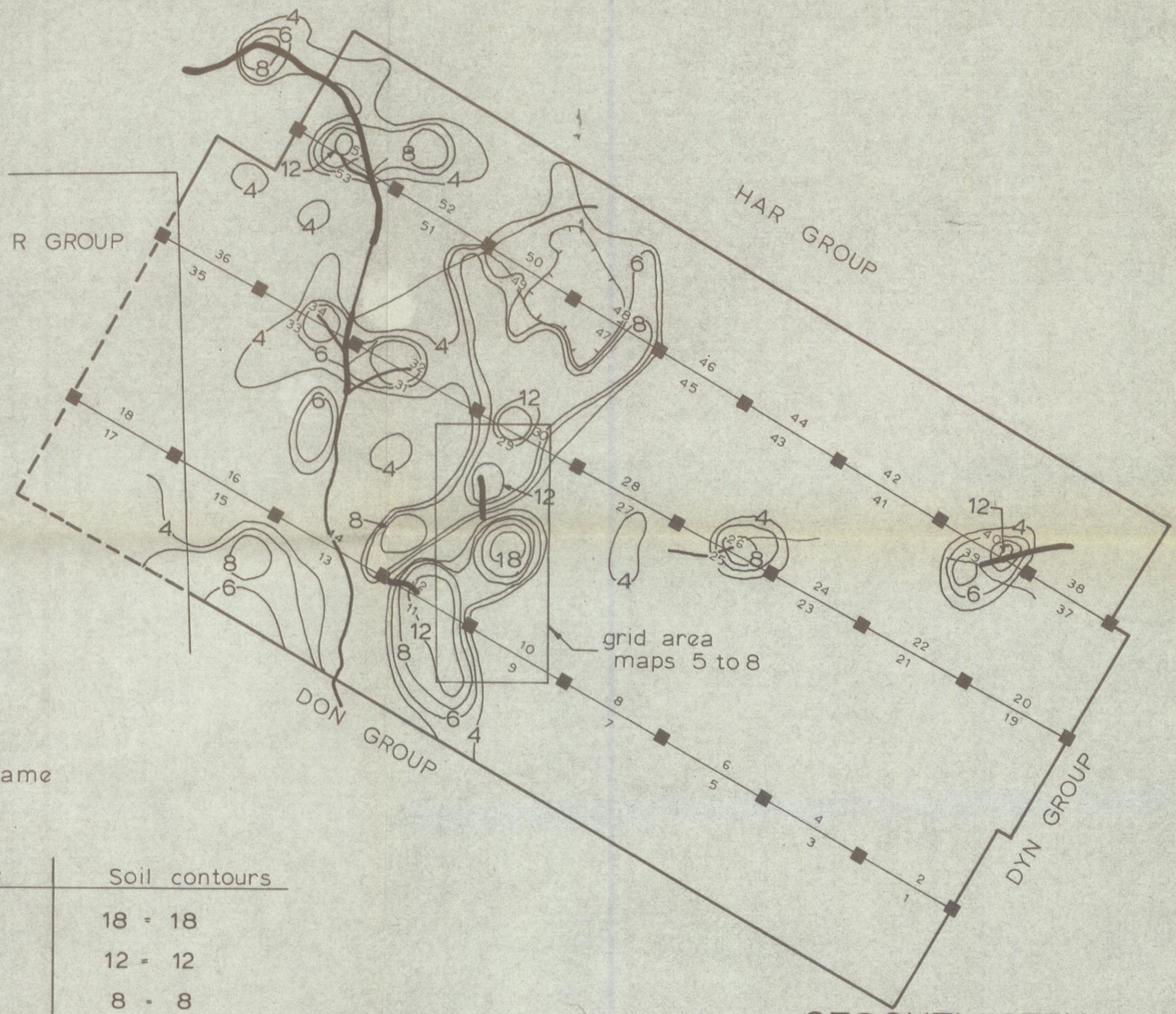
DYNASTY EXPLORATIONS LTD.

GULL GROUP

N.T.S. 1051-11

Scale: 1in = 1/4mi

0 1/4 1/2 1mi.



LEGEND

claim line, post, name

Silt worms	Interval value	Soil contours
▬▬	≥ 18	18 - 18
▬▬	12 - 16	12 - 12
———	8 - 10	8 - 8
———	6	6 - 6
		4 - 4

Photo no. A 12270-240

GEOCHEMISTRY
VALUE CONTOURS
MAP: 3a.

MAP 4: GEOCHEMISTRY

DYNASTY EXPLORATIONS LTD.	LEGEND
GULL GROUP NTS 1051-11	■ GULL CLAIM POSTS 1/2 CLAIM LINE, NAME — CLAIM BOUNDARY •• x SITE: SILT, SOIL, ROCK •24,49,980 PPM: Cu, Pb, Zn
Scale 1 in = 1/4 mi 0 1/4 1/2 1mi	

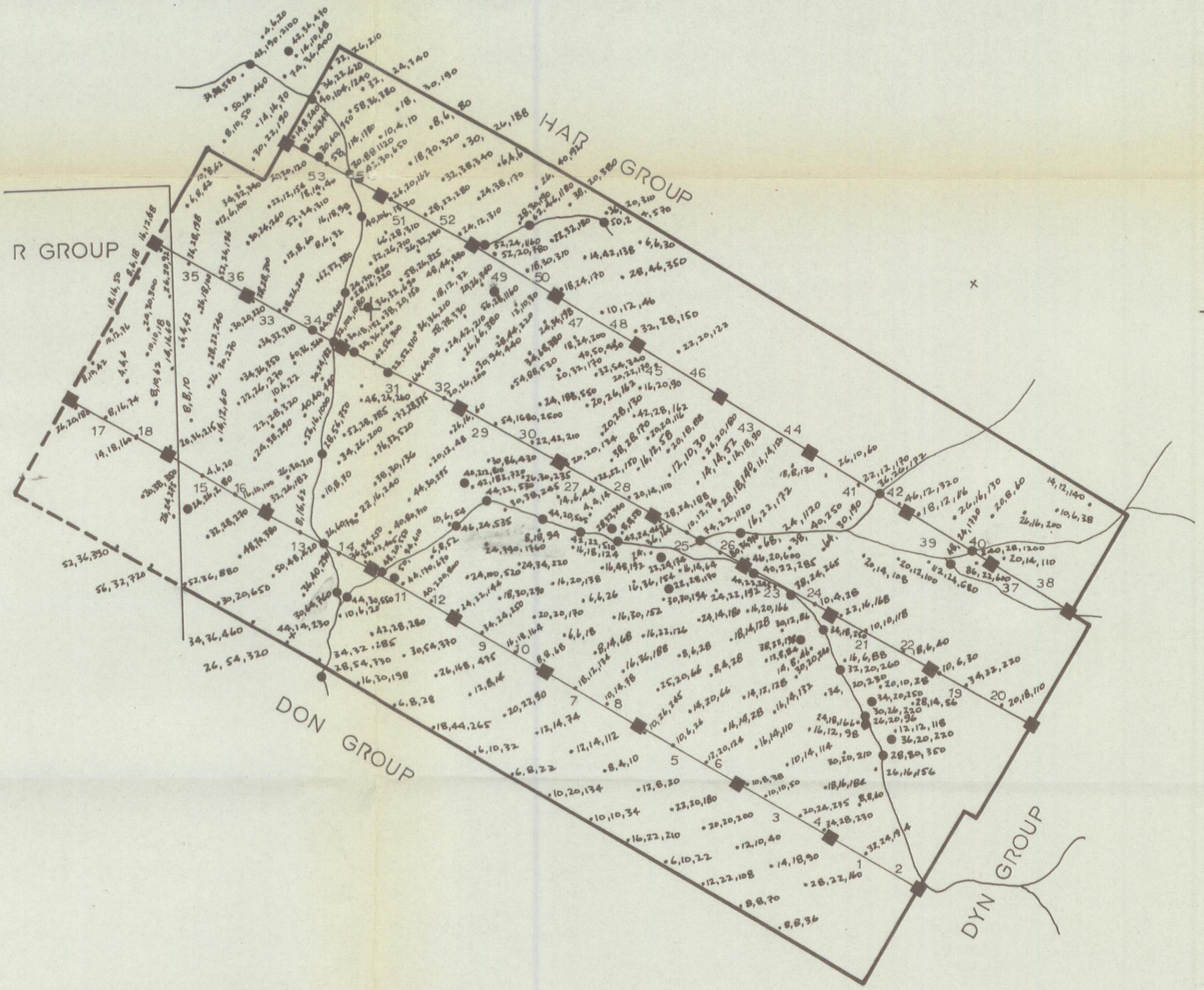


photo A12270-240

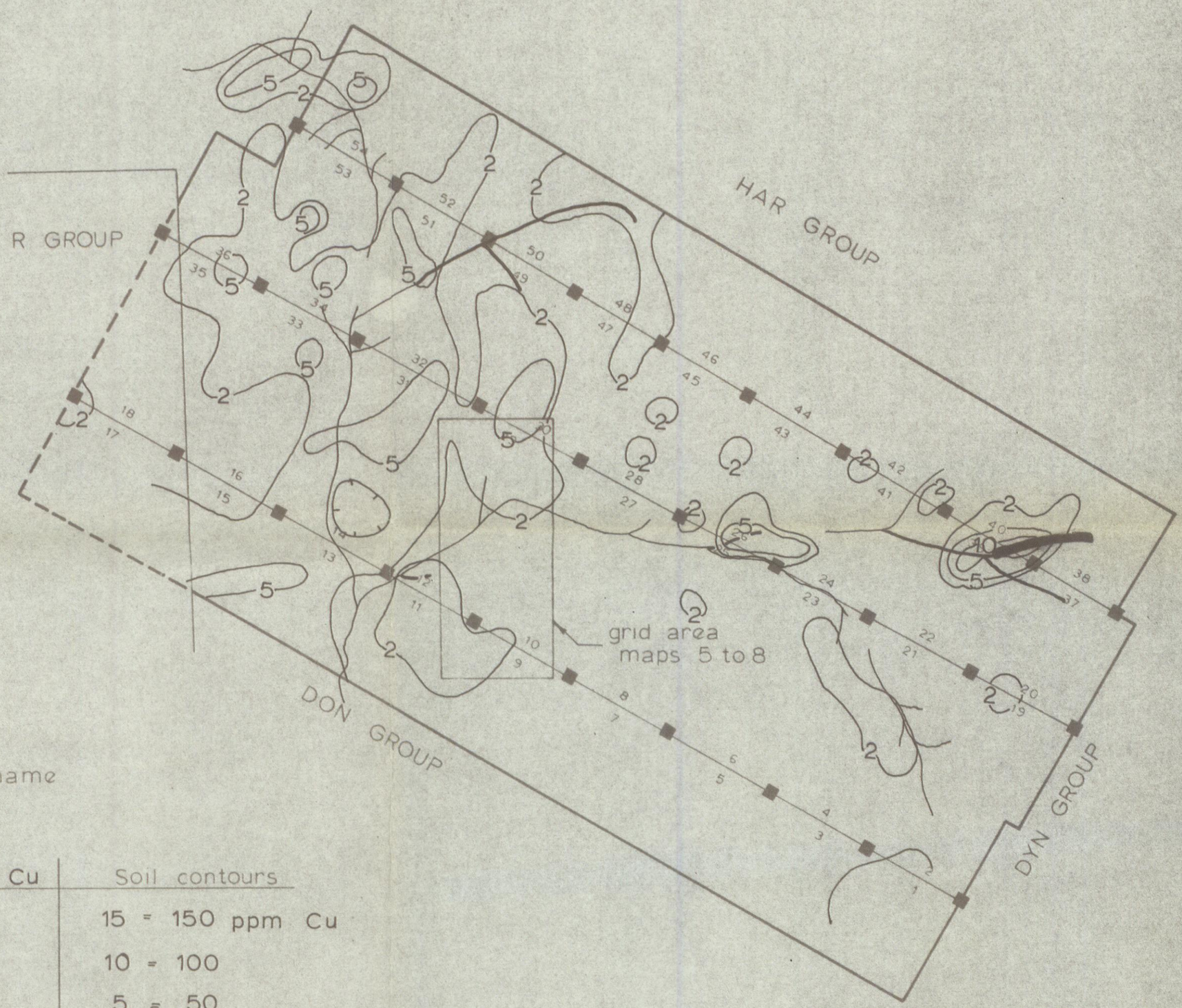
DYNASTY EXPLORATIONS LTD.

GULL GROUP

N.T.S. 105 I - 11

Scale: 1 in = 1/4 mi

0 1/4 1/2 1 mi.



LEGEND

claim line, post, name

Silt worms	Interval ppm Cu	Soil contours
▬▬	≥ 150	15 = 150 ppm Cu
▬▬	100 - 149	10 = 100
——	50 - 99	5 = 50
——	25 - 49	2 = 25

GEOCHEMISTRY
CONTOURS, ppm Cu
MAP: 4 a.

Photo no. A 12270-240

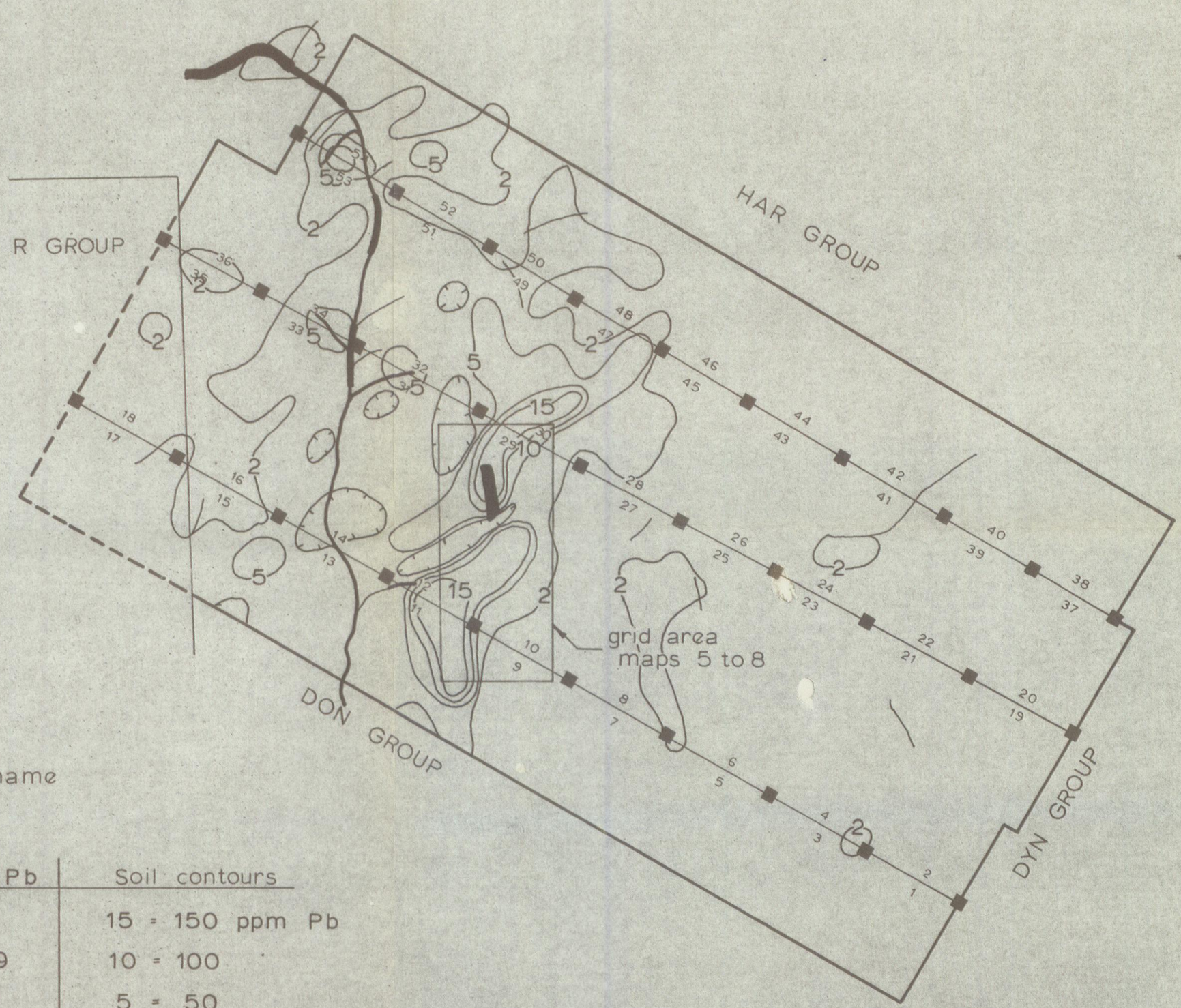
DYNASTY EXPLORATIONS LTD.

GULL GROUP

N.T.S. 105 I - 11

Scale: 1 in = 1/4 mi

0 1/4 1/2 1mi.



LEGEND

claim line, post, name

Silt worms	Interval ppm Pb	Soil contours
▬▬	≥ 150	15 = 150 ppm Pb
▬▬	100 - 149	10 = 100
——	50 - 99	5 = 50
——	25 - 49	2 = 25

Photo no. A 12270-240

GEOCHEMISTRY
CONTOURS, ppm Pb

MAP: 4 b.

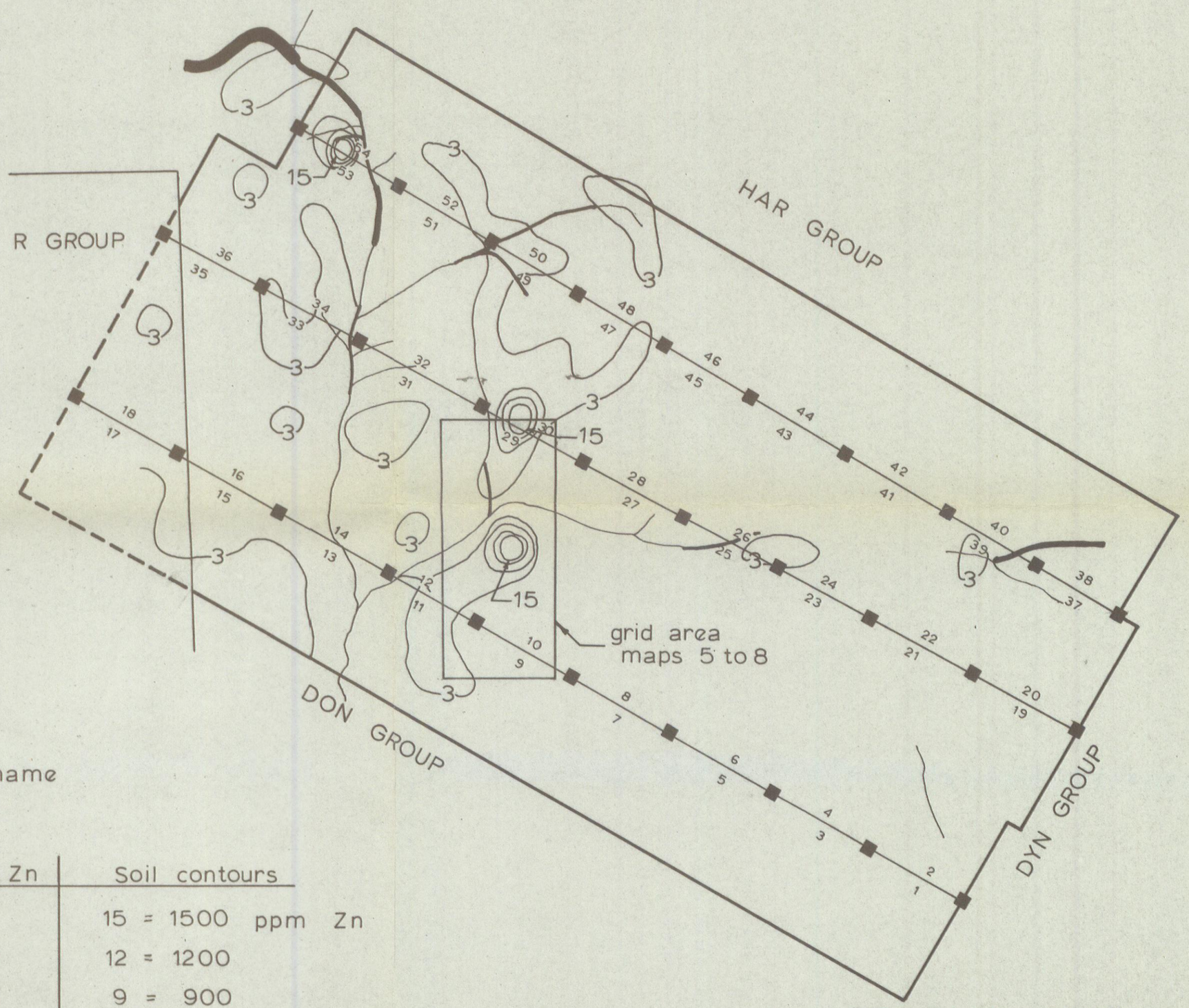
DYNASTY EXPLORATIONS LTD.

GULL GROUP

N.T.S.: 105 I - 11

Scale: 1 in = 1/4 mi

0 1/4 1/2 1mi.



LEGEND

claim line, post, name

Silt worms	Interval ppm Zn	Soil contours
▬▬	≥ 1500	15 = 1500 ppm Zn
▬▬	1200 - 1499	12 = 1200
———	900 - 1199	9 = 900
———	300 - 899	3 = 300

GEOCHEMISTRY
CONTOURS, ppm Zn
MAP: 4 c.

Photo no.: A 12270-240

GULL 29

GULL 30

GULL 11

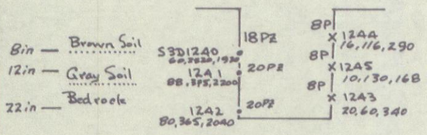
GULL 12

GULL 9

GULL 10

PIT DETAIL

LOCATION: On Baseline at 0+00S; 0+00E,W



MAP 5 : GULL GROUP (1051-11) Y.T.,

GEOCHEMISTRY : INTEGRATED METAL VAL.

Dynasty Explorations Ltd.

Selwyn Project 1973

N

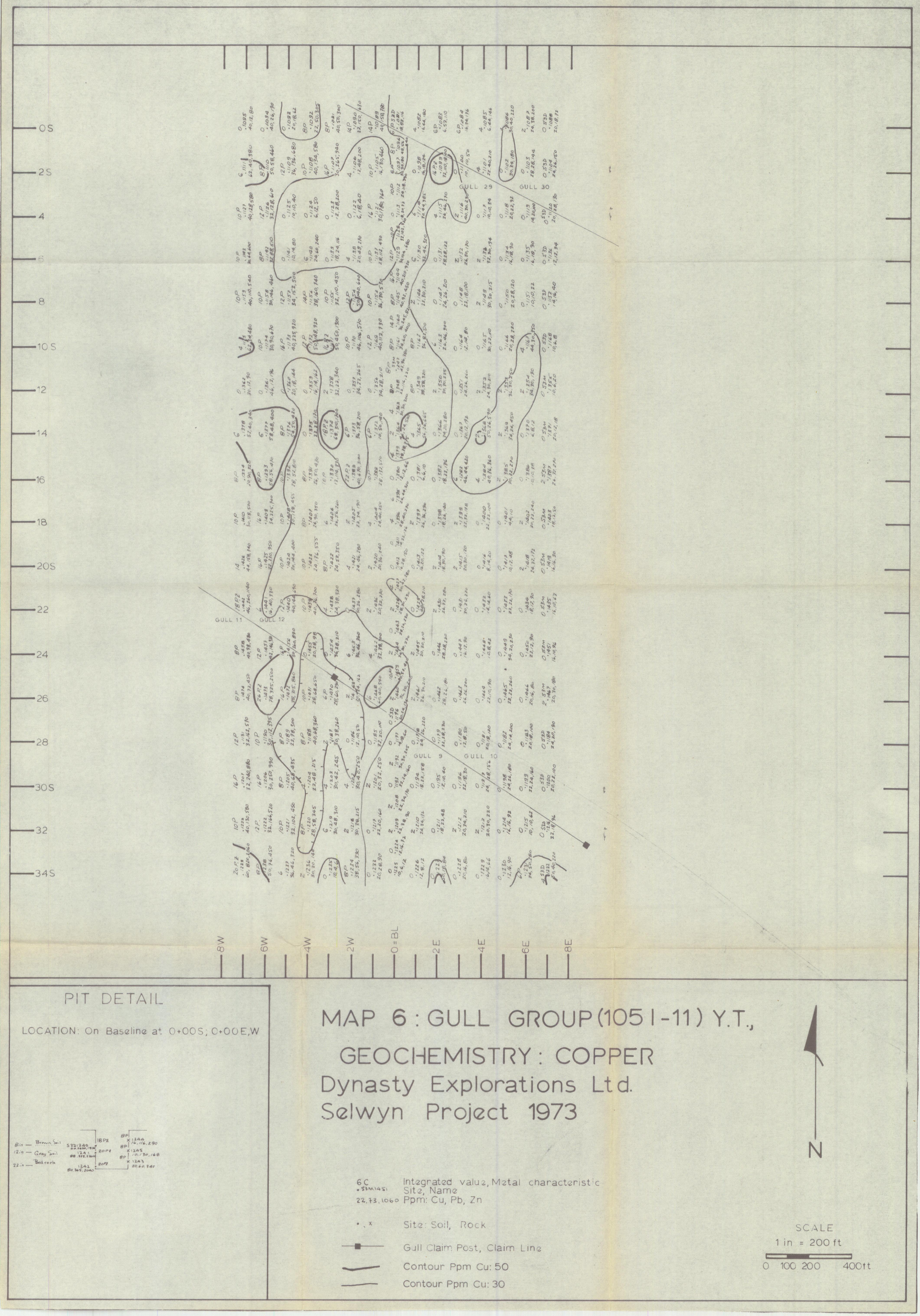
6C — Integrated value, Metal characteristic
•S3M1451 — Site, Name
22,73,1060 — Ppm: Cu, Pb, Zn

•, x — Site: Soil, Rock

Gull Claim Post, Claim Line

Contour value
A ≥18
B 12 to 16 incl.
C 8 & 10

SCALE
1 in = 200 ft
0 100 200 400ft



PIT DETAIL

LOCATION: On Baseline at 0+00S; 0+00E,W

MAP 6 : GULL GROUP (1051-11) Y.T.,

GEOCHEMISTRY : COPPER

Dynasty Explorations Ltd.

Selwyn Project 1973

6C Integrated value, Metal characteristic
•S3M1451 Site, Name
22,73,1060 Ppm: Cu, Pb, Zn

•, x Site: Soil, Rock

Gull Claim Post, Claim Line

Contour Ppm Cu: 50

Contour Ppm Cu: 30

N

SCALE
1 in = 200 ft
0 100 200 400ft

MAP 7: GULL GROUP (1051-11) Y.T.,

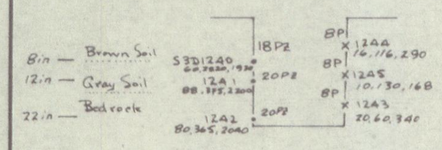
GEOCHEMISTRY: LEAD

Dynasty Explorations Ltd.

Selwyn Project 1973

PIT DETAIL

LOCATION: On Baseline at 0+00S; 0+00E,W



6 C — Integrated value, Metal characteristic
•S3M145 — Site, Name
22,73,1060 — Ppm: Cu, Pb, Zn

•, x — Site: Soil, Rock

Gull Claim Post, Claim Line

Contours Ppm Pb: 100, 200, 400, 800

N

SCALE
1 in = 200 ft
0 100 200 400ft

MAP 8: GULL GROUP (1051-11) Y.T.,

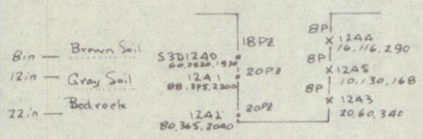
GEOCHEMISTRY: ZINC

Dynasty Explorations Ltd.

Selwyn Project 1973

PIT DETAIL

LOCATION: On Baseline at 0+00S; 0+00E,W



6C Integrated value, Metal characteristic

•S3M145 Site, Name

22,73,1060 Ppm: Cu, Pb, Zn

•, x Site: Soil, Rock

Gull Claim Post, Claim Line

Contours Ppm Zn: 250, 500, 1000, 2000

N

SCALE

1 in = 200 ft

0 100 200 400ft