

GEOCHEMICAL REPORT

SAND AND GUN CLAIM GROUPS

Nahanni Mining District  
Northwest Territories

Latitude : 62°53' N  
Longitude : 128°31' W

N.T.S. 105-I-5 & 105-I-16

Field work mainly during period:  
August 21 to September 3, 1973

Report and Interpretation:  
November and December 1973

By:

Colin I. Godwin, P.Eng. (B.C.)

DYNASTY EXPLORATIONS LIMITED

December 1973

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TABLE I  
LIST OF CLAIMS

<u>Claim</u>	<u>Claim Number</u>	<u>Grant Number</u>	<u>Recording Date</u>
SAND	1-16	A75001-A75016	Sept. 18, 1973
SAND	21-44	A73021-A73044	Aug. 23, 1973
SAND	45-68	A73045-A73068	
GUN	17-23	A75017-A75023	Sept. 19, 1973
GUN	33-105	A72933-A73005	Sept. 19, 1973
GUN	106-110	A73074-A73078	Sept. 19, 1973

TABLE II  
PERSONS INVOLVED IN WORK PROGRAM

Colin Godwin	B.A.Sc., P. Eng.	330-355 Burrard St., Vancouver, B.C.
R. Morris	Geological Assistant	c/o Tom Stokie, P.O. Box 92, Fernie, B.C.
G. Lishy	Prospector	Atlin, B.C.
B. Howard	Assistant	1903 Capilano Rd., North Vancouver, B.C.
P. Sihota	Assistant	104-2310 W. 2nd, Vancouver, B.C.
S. Morris	Cook	c/o Tom Stokie, P.O. Box 92, Fernie, B.C.

# DYNASTY EXPLORATIONS LIMITED

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

## GEOCHEMICAL REPORT SAND AND GUN CLAIM GROUPS, N.W.T.

### INTRODUCTION

#### Location and Access

The 64-claim Sand Group and 85-claim Gun Group are located approximately 140 miles northeast of Ross River (see Figure 1) in District of Mackenzie, Northwest Territories on N.T.S. Sheets 105-I-15 and 105-I-16, near  $62^{\circ}53'$  N and  $128^{\circ}31'$  W. The property is almost entirely above treeline in varied topography from 4500 ft. to 6500 ft. in elevation.

Access to the property in 1973 was by helicopter from O'Grady Lakes, 15 miles to the northwest, where a base camp was established. O'Grady Lakes and Natla Lake, 13 miles to the north-northeast are the nearest lakes suitable for float-equipped aircraft.

#### General

Geological features are only sketchily known. The eastern part of the Sand Group is overlain by gently dipping cross-bedded dolomitic sandstone. This sandstone is underlain by "wavy-banded" limestone and black shale exposed in the centre and western portions of the Sand Group. Most of the Gun Group is underlain by locally reefoid, thick bedded, limestone but the western edge of the group has outcrops of black graptolitic slates. The northwestern corner of the group is granitic rock intrusive into limestone with local skarn development near the contact.

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

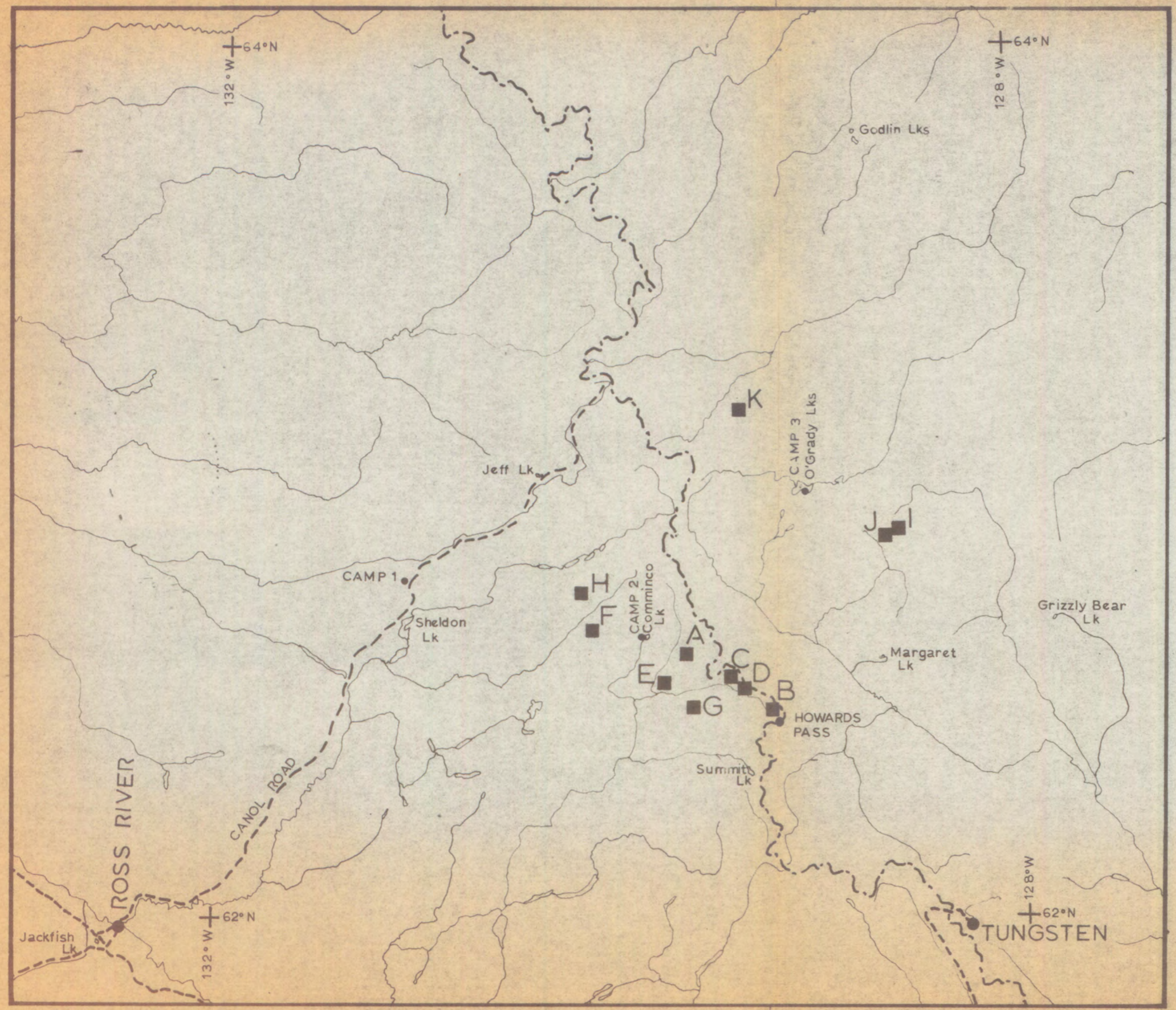
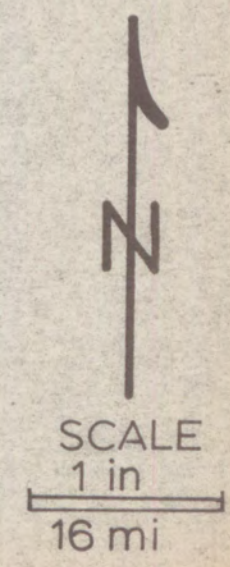


FIGURE 1:  
 Index Map  
 Claim Groups

DYNASTY EXPLORATION  
SELWYN PROJECT -1973

# SAND - GUN GROUPS

1051-15&16

Scale: 1 in. = 1/2 mi.  
0 1/2 1 mi.

## LEGEND





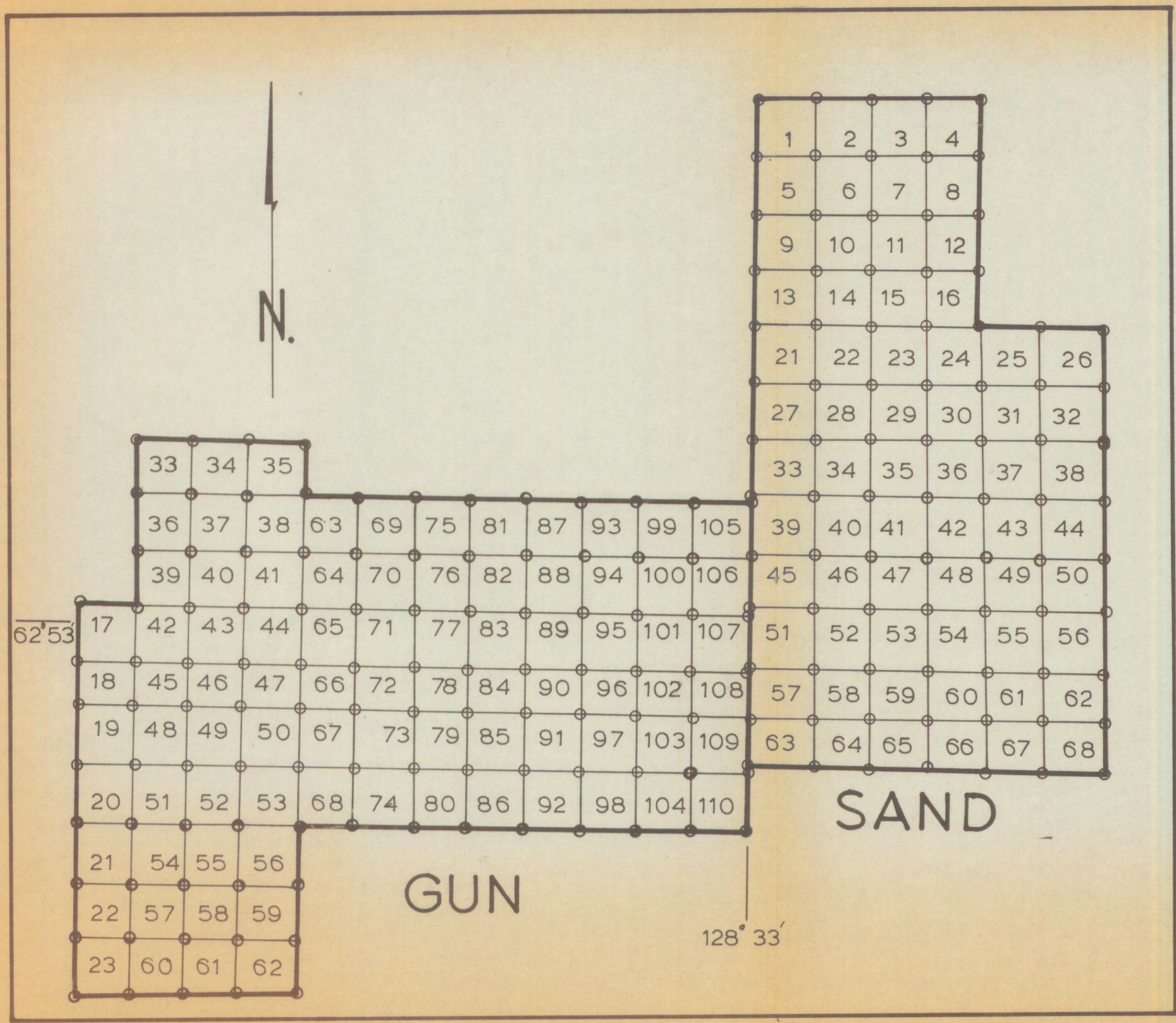
-  claim boundary
-  claim line
-  claim post
-  claim name

FIGURE: 2



The Sand Group was staked in August and September, 1973, in response to high lead geochemical values found in soil and gossanous material. The Gun Group, contiguous to the west with the Sand Group, was staked to cover subsequent discoveries of high grade sphalerite. These were found by prospector G. Lishy, Atlin, B.C.

Due to the lateness in the season of the discoveries only reconnaissance soil and silt samples have been obtained from the Gun Group. A detailed grid was started on the Sand Group but early snow falls terminated work in the area. Work on these properties was mainly during the 14 day period from August 21st to September 3, 1973.

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

GEOCHEMISTRY

General

Table II classifies the type and number of samples taken on Sand and Gun Groups. Analyses for copper, lead and zinc were 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 samples ( $\frac{1}{2}$  gram sample).

TABLE III: Classification of Sand and Gun Samples

<u>Type</u>	<u>Approximate Area</u>	<u>Geochem: Cu, Pb, Zn.</u>		
		<u>Soil</u>	<u>Silt</u>	<u>Rock</u>
Detail on Sand Group	3600 ft. x 2400 ft. = 8.5 M.ft. <sup>2</sup>	358	23	0
Reconnaissance mainly on Gun Group	6 mi. x 8 mi. = 48 Mi. <sup>2</sup>	<u>148</u>	<u>85</u>	<u>27</u>
	TOTALS	<u>506</u>	<u>108</u>	<u>27</u>

Integrated Value

An even number called here the integrated value for copper, lead and zinc is plotted on 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.

Geochemical Interpretation Sand Group Grid

Tabulations of geochemical data from the Sand Group grid is shown in Tables V to VII. Lognormal probability plots based on these tables are shown in Figures 3 to 5. From the log-normal probability plots interpretations based on population distributions is possible; resulting conclusions are summarized in Table VIII.

Map 1 is the interpretation of data based on the "value" system. Contours and worm intervals in Maps 2 to 4 are based on Table VIII.

TABLE V: Sand Group Grid Data; Copper Geochem (see Figure 3)

<u>Centre of Int.</u>	<u>Interval</u>	<u>Soil</u>			<u>Silt</u>		
		<u>No.</u>	<u>%</u>	<u>Cum.%</u>	<u>No.</u>	<u>%</u>	<u>Cum.%</u>
	≥ 85	1	.27	100.00			
82	80-84	1	.27	99.73			
77	75-79	0	-	-			
72	70-74	0	-	-			
67	65-69	3	.85	99.46	1	4.5	100.0
62	60-64	1	.27	98.61	0	-	-
57	55-59	2	.56	98.34	0	-	-
52	50-54	2	.56	97.78	0	-	-
47	45-49	4	1.13	97.22	0	-	-
42	40-44	12	3.35	96.09	3	13.0	95.5
37	35-39	24	6.70	92.74	1	4.5	82.5
32	30-34	32	8.94	86.04	7	30.0	78.0
27	25-29	39	10.89	77.10	5	22.0	48.0
22	20-24	73	20.39	66.21	4	17.5	26.0
17	15-19	64	17.88	45.82	2	8.5	8.5
12	10-14	63	17.60	27.94	0	-	-
7	5-9	31	8.66	10.34	0	-	-
2	0-4	6	1.68	1.68	0	-	-
TOTALS		<u>358</u>	<u>100.00</u>	<u>-</u>	<u>23</u>	<u>100.0</u>	<u>-</u>

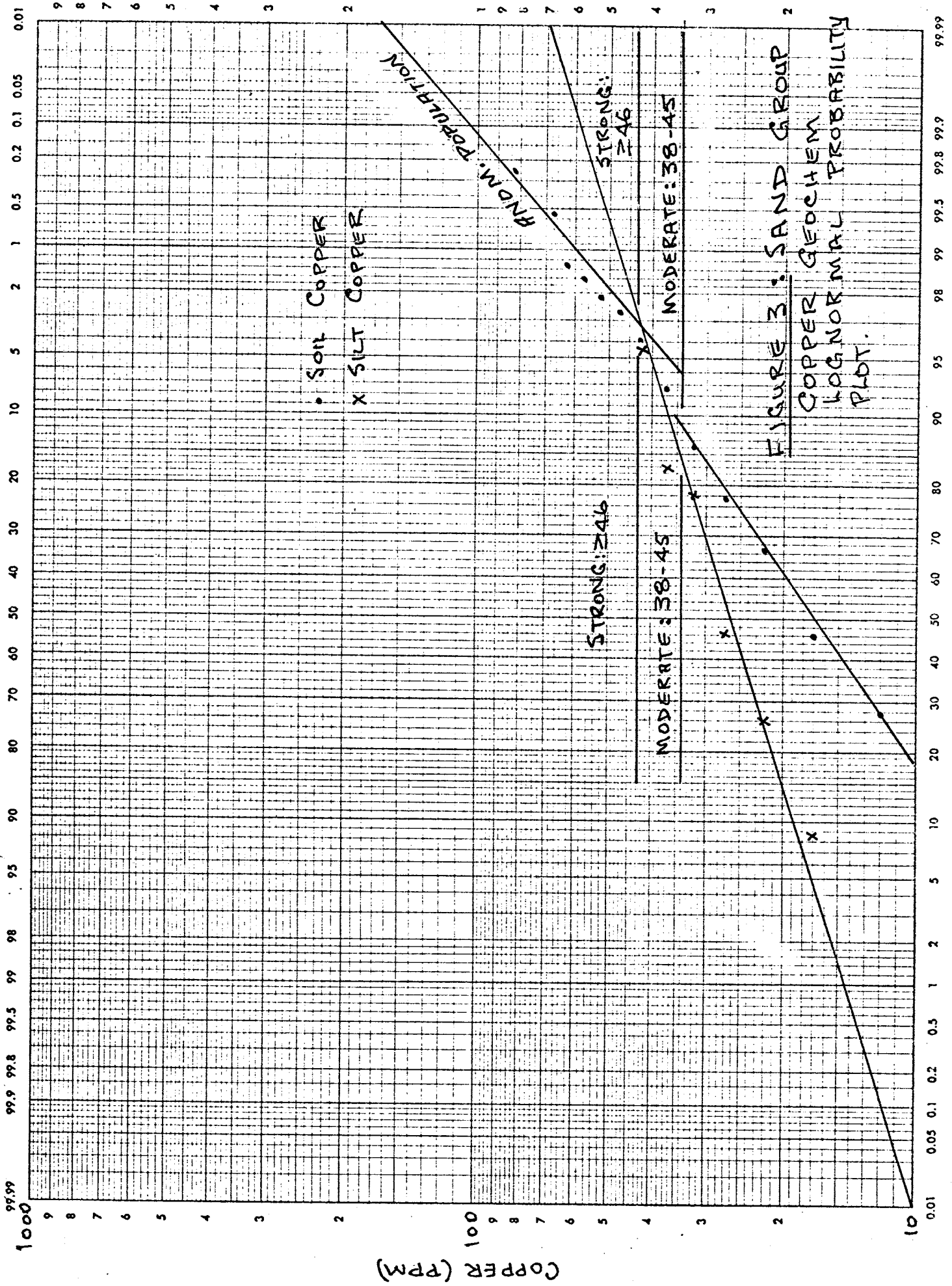


TABLE VI: Sand Group Data; Lead Geochem

(see Figure 4)

<u>Centre of Int.</u>	<u>Interval</u>	<u>Soil</u>			<u>Silt</u>		
		<u>No.</u>	<u>%</u>	<u>Cum.%</u>	<u>No.</u>	<u>%</u>	<u>Cum.%</u>
	≥ 850	6	1.66	99.92			
825	800-849	1	0.27	98.26			
775	750-799	1	0.27	97.99			
-	700-749	0	-	-			
675	650-699	1	0.27	97.72			
-	600-649	0	-	-			
-	550-599	0	-	-			
525	500-549	1	0.27	97.45			
462	450-499	0	-	-			
439	425-449	0	-	-			
412	400-424	0	-	-			
387	375-399	1	0.27	97.18			
362	350-374	0	-	-			
339	325-349	1	0.27	96.91			
312	300-324	1	0.27	96.64			
287	275-299	2	0.56	96.37	1	4.5	100.0
262	250-274	2	0.56	95.81	0	-	-
239	225-249	2	0.56	95.25	0	-	-
212	200-224	1	0.27	94.69	0	-	-
187	175-199	3	0.85	94.42	0	-	-
162	150-174	6	1.68	93.57	0	-	-
139	125-149	11	3.07	91.89	1	4.5	95.5
112	100-124	23	6.42	88.82	0	-	-
87	75-99	41	11.45	82.40	1	4.5	91.0
62	50-74	70	19.55	70.95	5	22.0	86.5
39	25-49	105	29.33	51.40	15	64.5	64.5
12	0-24	79	22.07	22.07	0	-	-
<b>TOTALS</b>		<u>358</u>	<u>99.92</u>	<u>-</u>	<u>23</u>	<u>100.0</u>	<u>-</u>

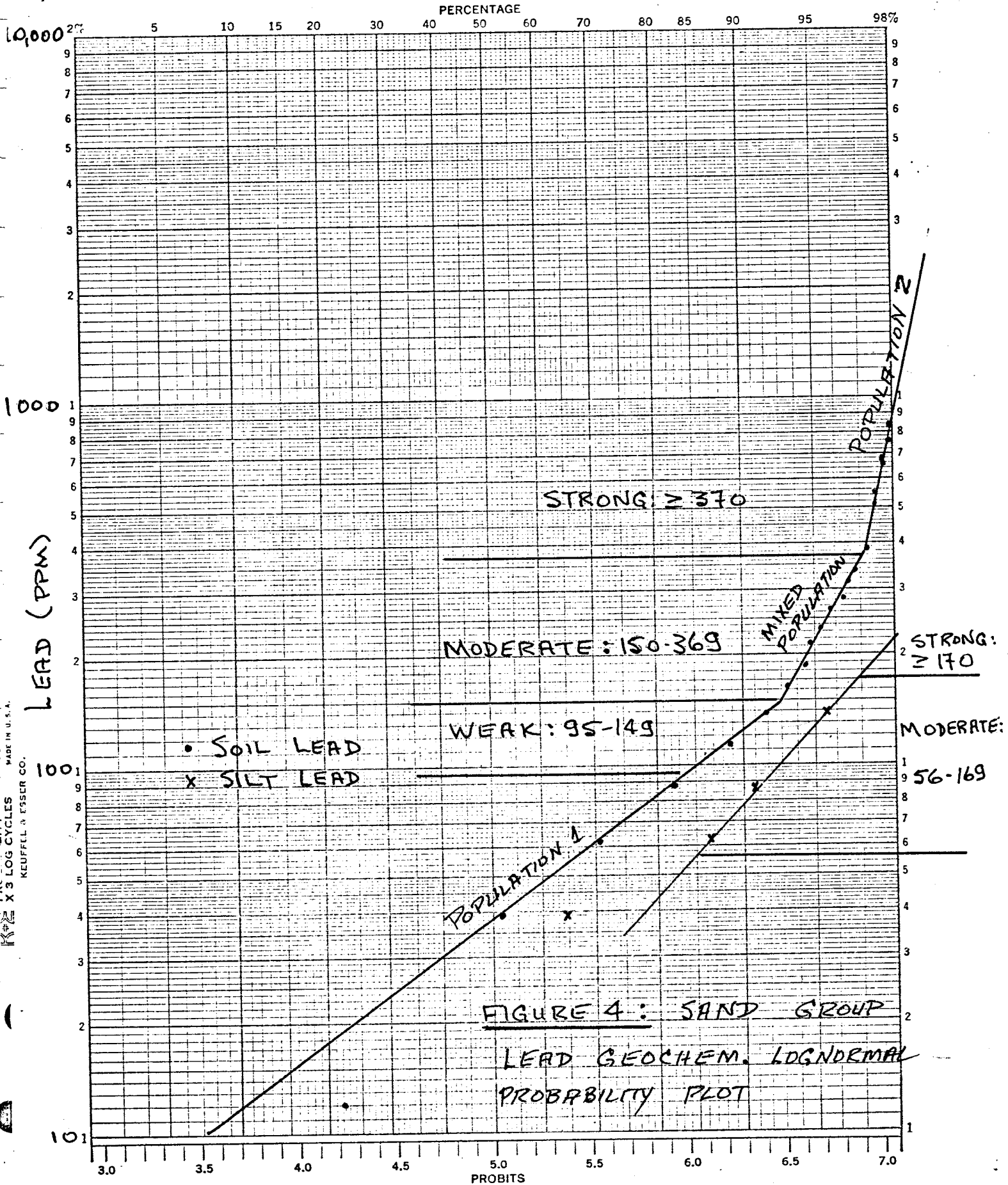


TABLE VII: Sand Group Data; Zinc Geochem

(see Figure 5)

Centre of Int.	Interval	Soil			Silt		
		No.	%	Cum.%	No.	%	Cum.%
	≥ 1500	6	1.66	100.01			
	1400	0	-	-			
	1300	1	.27	98.35			
	1200	0	-	-			
	1100	2	.56	98.08	1	4.5	100.0
	1000	3	.85	97.52	0	-	-
	900	0	-	-	0	-	-
	800	3	.85	96.67	0	-	-
	700	4	1.13	95.82	0	-	-
	600	2	.56	94.69	0	-	-
	500	7	1.96	94.13	0	-	-
	400	12	3.35	92.17	0	-	-
	300	23	6.42	88.82	0	-	-
	200	45	12.57	82.40	3	13.0	95.5
	100	119	33.24	69.83	10	43.5	82.5
	0-99	131	36.59	36.59	9	39.0	39.0
TOTALS		358	100.01	-	23	100.0	-

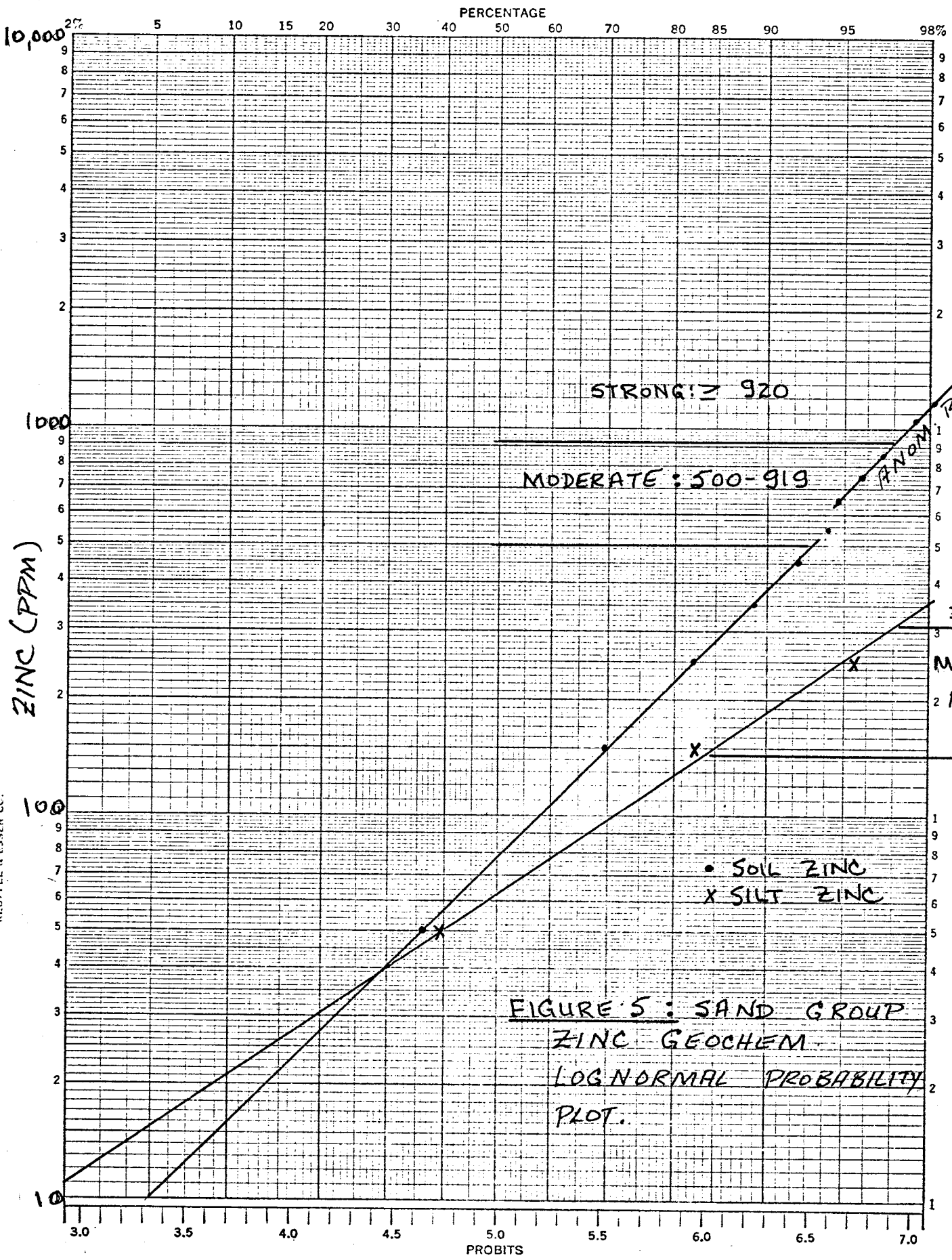


FIGURE 5: SAND GROUP  
ZINC GEOCHEM.  
LOG NORMAL PROBABILITY  
PLOT.

PROBABILITY  
CYC  
KEUFFEL & ESSER CO.

46 8080  
MA

TABLE VIII: Sand Group, Anomaly Interpretation

COPPER (PPM)

	<u>Strong</u>	<u>% of Dist.</u>	<u>Moderate</u>	<u>% of Dist.</u>	<u>Weak</u>	<u>% of Dist.</u>
Soils	≥ 46	3%	38-45	13%	-	-
Silts	≥ 46	3%	38-45	7%	-	-

LEAD (PPM)

Soils	≥ 370	3%	150-369	4%	95-149	9%
Silts	≥ 170	3%	56-169	12%	-	-

ZINC (PPM)

Soils	≥ 920	3%	500-919	4%	-	-
Silts	≥ 310	3%	145-309	13%	-	-

Geochemical Targets Sand-Gun Regional Area

Map 5 is a plot of all reconnaissance samples taken in the Sand-Gun regional area. Because the sampling distribution is very uneven, separate worm diagram contour maps are not made for "integrated value" and each element. All results from the reconnaissance, however, are shown on Map 5 and from this data the following general target areas are outlined:

1. Area "A" is partly covered by the Sand grid previously described.
2. Area "B" is centred on the sphalerite showings.
3. Areas "C to E" have at least several anomalous samples within their boundaries.

Two strong lead-zinc anomalies occur in the Sand grid area (see Maps 1 to 4). Both anomalies are open because the grid is incomplete.

The first anomaly occurs near the boundary between claims Sand 41 and Sand 42. The highest results in this anomaly are:

1. Lead : 1600 and 760 ppm.
2. Zinc : 2000 and 1120 ppm.

The second anomaly occurs near the junction of claims Sand 48, Sand 49, Sand 54 and Sand 55 (see Maps 1 to 4). The highest results in this anomaly are:

1. Lead : 1700 and 1520 ppm.
2. Zinc : 1.7% and 1520 ppm.

SUMMARY AND RECOMMENDATIONS

The Sand and Gun Groups have both strong geochemical responses and sphalerite mineralization located in place. Areas "A to E" shown on Map 5 merit detailed grid geochemical sampling.

Prospecting and geological mapping of the area is predicated.

The sand and Gun Groups are worth considerable further effort.

Respectfully submitted,

C. I. GODWIN

BRITISH

Colin I. Godwin P. Eng. (B.C.)

ENGINEER

December, 1973

# DYNASTY EXPLORATIONS LIMITED

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

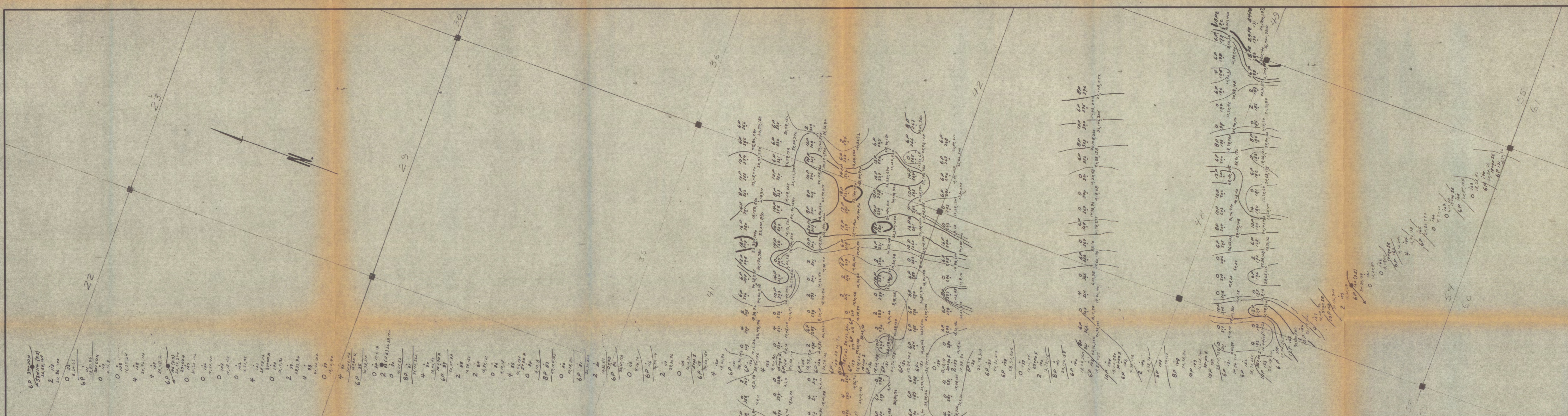
## AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, COLIN I. 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 (Geochemical Report Sand and Gun Claim Groups) is both correct and true.

\_\_\_\_\_  
Colin I. Godwin,

\_\_\_\_\_  
Date

\_\_\_\_\_  
Notary Public in and for the  
Province of British Columbia.



6P 34	2 113	0 113	6P 35	0 113	0 113	4 113	4 113	6P 36	0 113	0 113	0 113	4 113	4 113	6P 37	0 113	0 113	0 113	4 113	4 113	6P 38	0 113	0 113	0 113	4 113	4 113	6P 39	0 113	0 113	0 113	4 113	4 113	6P 40	0 113	0 113	0 113	4 113	4 113	6P 41	0 113	0 113	0 113	4 113	4 113	6P 42	0 113	0 113	0 113	4 113	4 113	6P 43	0 113	0 113	0 113	4 113	4 113	6P 44	0 113	0 113	0 113	4 113	4 113	6P 45	0 113	0 113	0 113	4 113	4 113	6P 46	0 113	0 113	0 113	4 113	4 113	6P 47	0 113	0 113	0 113	4 113	4 113	6P 48	0 113	0 113	0 113	4 113	4 113	6P 49	0 113	0 113	0 113	4 113	4 113	6P 50	0 113	0 113	0 113	4 113	4 113	6P 51	0 113	0 113	0 113	4 113	4 113	6P 52	0 113	0 113	0 113	4 113	4 113	6P 53	0 113	0 113	0 113	4 113	4 113	6P 54	0 113	0 113	0 113	4 113	4 113	6P 55	0 113	0 113	0 113	4 113	4 113
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**SAND GROUP**  
105 I-15

DETAILED GRID GEOCHEMISTRY ; VALUE

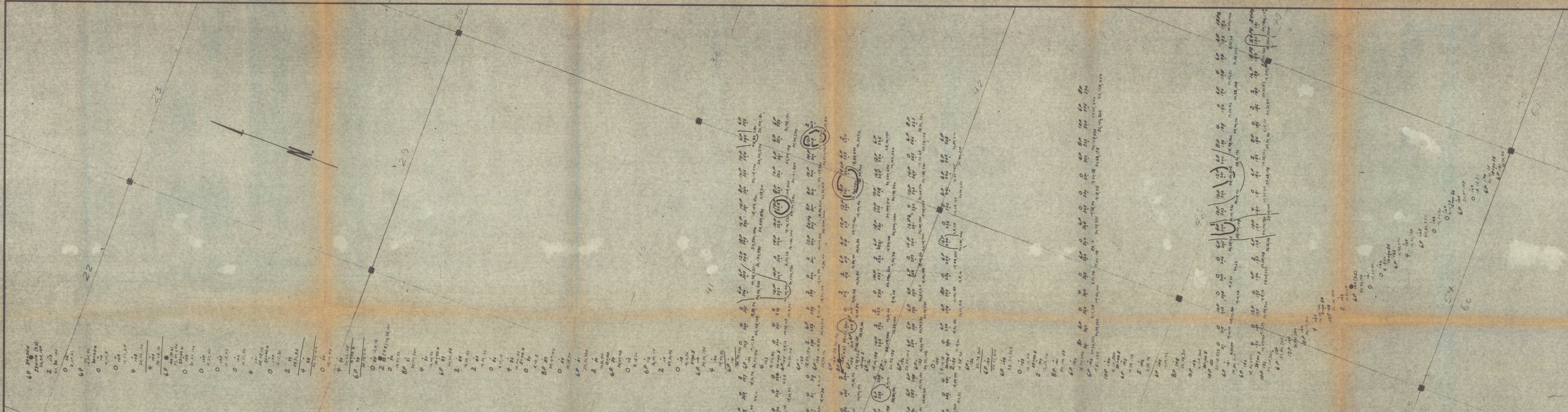
LEGEND

<ul style="list-style-type: none"> <li>■ claim line post name</li> <li>25.00 N. base line coordinates</li> <li>S3N56 sample name</li> <li>(65) pH</li> <li>Silt worms</li> <li>— 8-10</li> <li>— 6</li> </ul>	<ul style="list-style-type: none"> <li>sample type: ● silt, • soil, x rock, ○ other</li> <li>analysis in ppm: 123, 89, 752</li> <li style="padding-left: 20px;">Cu, Pb, Zn</li> <li>integrated value: 12</li> <li>metal characteristic: C=Cu P=Pb Z=Zn</li> <li>Soil contours, VALUE</li> <li>— &gt; 18</li> <li>— = 12</li> <li>— = 8</li> <li>— = 6</li> </ul>
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0 200 400'

Scale: 1in = 200 feet

**MAP: 1**



DYNASTY EXPLORATIONS LTD.

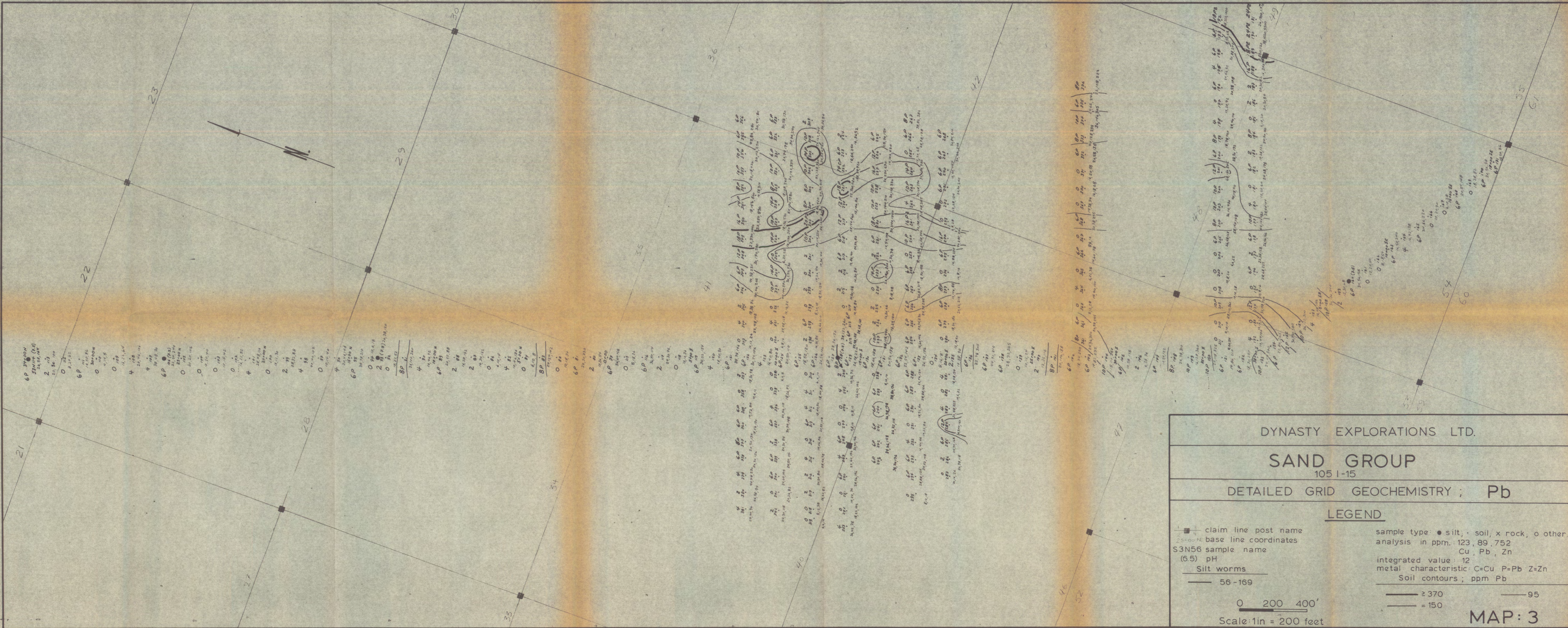
**SAND GROUP**  
105 I-15

DETAILED GRID GEOCHEMISTRY ; Cu

LEGEND

<p>■ claim line post name 2000 M. base line coordinates S3N56 sample name (6.5) pH</p> <p>— Silt worms — 38-45</p> <p style="text-align: right;">0 200 400' Scale: 1in = 200 feet</p>	<p>● sample type: ● silt, • soil, x rock, ○ other analysis in ppm: 123, 89, 752 Cu, Pb, Zn integrated value: 12 metal characteristic: C=Cu P=Pb Z=Zn Soil contours; ppm Cu</p> <p>— ≥46 — -38</p>
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**MAP: 2**



DYNASTY EXPLORATIONS LTD.

**SAND GROUP**  
105 I-15

DETAILED GRID GEOCHEMISTRY ; Pb

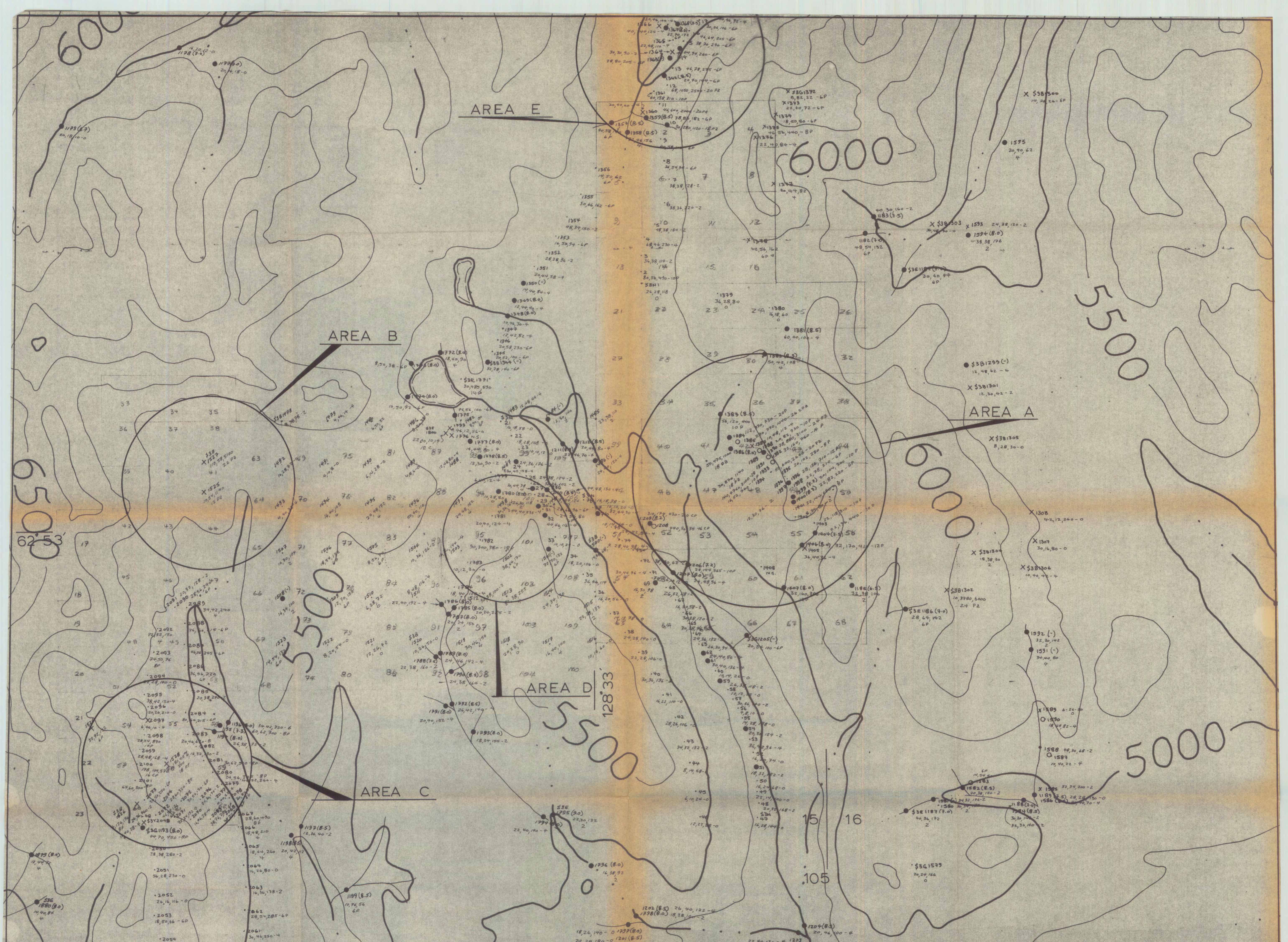
**LEGEND**

<ul style="list-style-type: none"> <li>□ claim line post name</li> <li>25+00 N. base line coordinates</li> <li>S3N56 sample name</li> <li>(6.5) pH</li> <li>Silt worms</li> <li>— 56-169</li> </ul>	<ul style="list-style-type: none"> <li>● sample type ● silt, • soil, x rock, o other.</li> <li>analysis in ppm.: 123, 89, 752</li> <li style="padding-left: 20px;">Cu, Pb, Zn</li> <li>integrated value: 12</li> <li>metal characteristic: C=Cu P=Pb Z=Zn</li> <li>Soil contours; ppm Pb</li> <li>— ≥ 370</li> <li>— = 150</li> <li>— 95</li> </ul>
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Scale: 1 in = 200 feet

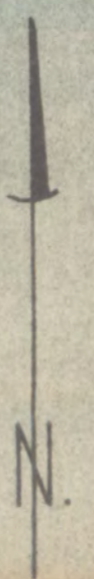
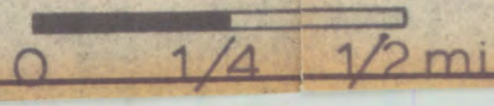
**MAP: 3**





DYNASTY EXPLORATIONS LTD.  
**SAND - GUN**  
 REGIONAL GEOCHEMISTRY

Scale: 1 in. = 1/4 mi.



**LEGEND**

- 500' contour intervals
- swamp areas
- S3Y457 sample name
- sample type: ● silt soil
- x rock o other
- integrated value: 12
- metal characteristic: C=Cu, P=Pb, Z=Zn
- analysis in ppm: 156, 56, 790
- Cu, Pb, Zn
- pH: (7.0)

MAP: 5