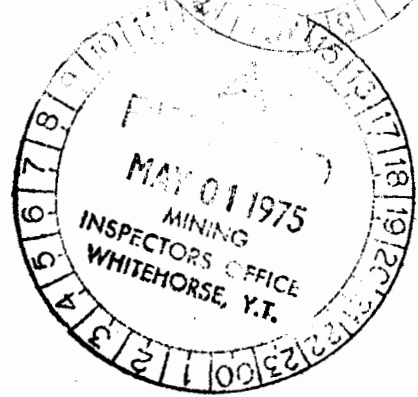
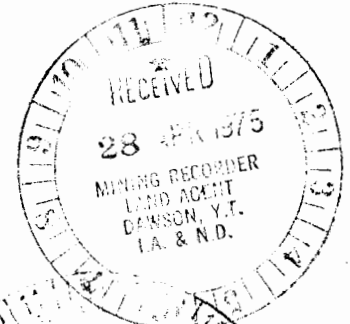




GEOLOGICAL AND GEOCHEMICAL REPORT

1974 FIELD WORK

OZ CLAIM GROUP



Dawson Mining District
Yukon Territory

10,400

N.T.S. 116-B-12 and 13

Latitude : 64°45'N
Longitude : 139°45'W

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 \$10,400.00

D. B. Craig

Resident Geologist or
Resident Mining Engineer

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

Phillips

Commissioner of Yukon Territory
ADMINISTRATOR OF THE YUKON TERRITORY

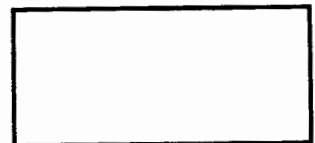
By:

Peter M. Dean

DYNASTY EXPLORATIONS LIMITED

February, 1975

DATE DUE



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LIST OF CLAIMS

<u>Claim Number</u>	<u>Grant Number</u>	<u>Recording Date</u>
OZ 1-40	Y89931-Y89970	August 13, 1974
41-52	Y89975-Y89986	August 20, 1974
53-56	Y89971-Y89974	August 13, 1974
57-72	Y89987-Y90002	August 20, 1974
73-81	Y90187-Y90195	October 2, 1974

DYNASTY EXPLORATIONS LIMITED

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

GEOLOGICAL AND GEOCHEMICAL REPORT
1974 FIELD WORK
OZ CLAIM GROUP

INTRODUCTION

The OZ group was staked in July, August and September of 1974 to cover lead and zinc mineralization and geochemical anomalies discovered during a reconnaissance program in the 1974 field season. Work on the property consisted of detailed geochemistry, prospecting and geological mapping of the main showing area.

CONCLUSIONS AND RECOMMENDATIONS

The OZ claims cover a number of good showings of zinc and lead in dolomite and shale units of Helikian age. Some of the showings are stratiform, and large geochemical anomalies are present.

An exploration program consisting of grid soil sampling, geologic mapping, hand trenching and 2000 ft. of diamond drilling is recommended.

LOCATION AND ACCESS (See Figure 1)

The OZ Group is located near the headwaters of Coal Creek, centred at latitude $64^{\circ}45'N$. and longitude $139^{\circ}45'W$., approximately 50 miles N-NW of Dawson, Yukon. Access to the property is by helicopter, with vehicle and fixed wing support available at Dawson.

REGIONAL GEOLOGY

The Coal Creek Dome, located in the western Ogilvie Mountains, north of the Tintina Trench, consists of a 50-mile by 20-mile elliptical uplifted area of Proterozoic sediments. Mapping by the G.S.C. (Map 1284A, Dawson) has

indicated an older unit (Unit 1) of argillite, slate and phyllite conformably overlain by a succession of carbonates (Unit 2). The latter has been subdivided into the following sub-units in order of presumed deposition; Unit 2b - orange weathering dolomite, Unit 2c - grey weathering siliceous dolomite, Unit 2d - dolomite conglomerate and Unit 2e - green-grey shale, argillite and siltstone. A general northeastern uplift of the Dome has likely caused successive deposition of carbonates to the west and south. The Oz Group, staked on mineralization discovered in Unit 2b, covers a large area underlain by Units 2b and 2c.

Table of Geologic Formations

<u>Age</u>	<u>Thickness</u>	<u>Unit</u>	<u>Description</u>
Cretaceous or Cambrian	5'-50'	20	Orange to brown weathering diorite and gabbro dykes and sills.
(		2	
(
(	+1200'?	2e	Grey shale, greenish-grey argillite, buff weathering, dark grey siltstone, minor dolomite.
(
(
(
(	300'-1000'	2d	Buff weathering dolomite conglomerate
(
(
Proterozoic	+2000'?	2c	Grey weathering, fine grained, massive bedded dolomite with chert and siliceous material.
(
(
(
(	+5000'?	2b	Buff and orange weathering, fine grained dolomite, minor quartzite, limestone and beds of black shale, chert and argillite.
(
(
(
(	+5000'?	1	Dark grey-grey-green-black argillite, slate and phyllite with minor limestone.
(
(

GEOLOGY (See Figure 3)

The OZ Group is predominantly underlain by buff and orange weathering fine grained dolomite of Unit 2b. The basal portion of Unit 2b, noted in Oz Creek, consists of a red and green conglomerate with jasper, grey chert and quartzite in a green groundmass with minor specularite. A 5 to 50 ft. thick bed of black shale, argillite and chert, often brecciated, located near the base of Unit 2b, occurs in a roughly east-west trending zone in the bottom of Wiz Creek, through Ird Pass and along the southern slopes of Oz Creek. Zones of brecciated dolomite appear to be adjacent to the black shale marker as noted in both Wiz and Cz Creeks.

Bedding generally strikes northwest, dipping gently to moderately to the southwest but often varies due to folding. The black shale marker in Wiz Creek indicates the very uneven nature of bedding surfaces.

Outcrops of Unit 2c, occurring along the ridge tops in the northern portion of the OZ Group, consist of massive cherty and quartzose, grey dolomite with minor interbeds of quartzite, thin bedded grey dolomite and dolomite cemented chert breccia. The contact between Unit 2c and 2b appears to be conformable.

Dyke swarms and small stocks of a fine to medium crystalline, grey-green intrusive of composition intermediate to andesite-gabbro, Unit 20, outcrop on the OZ Group. These rocks have been described as diabase intrusives of Middle Cambrian age by Cairnes (1914, pp. 44-58). Little contact metamorphism of the country rock occurs adjacent to the dykes, however, small contact aureoles have been observed adjacent to the stocks. Metamorphic mineralization is predominantly pure white marble with minor amounts of diopside and tremolite-actinolite skarn. In the Wiz Creek valley, these dykes are all sub-vertical and trend west and northwest.

Further mapping is required to fully determine the content and nature of folding and faulting on the OZ Group.

ECONOMIC GEOLOGY

Lead-zinc mineralization appears to be confined to a zone near the base of Unit 2b. The following two distinct modes have been recognized:

- (1) The 5-50 ft. thick bed of black shale, argillite and chert occurring in both the Wiz and Oz Creek valleys and in the Ird Pass contains bands and disseminated grains of galena and minor sphalerite along bedding which appear to reflect a sedimentary origin for mineralization. Fractured and brecciated zones generally contain fragments of chert or shale in a matrix of quartz, pyrite, calcite, galena and sphalerite. Breccia grades often exceed 30% combined lead and zinc. This unit, stretching for over a 2-mile length on the OZ Group, contains excellent tonnage potential of economic lead-zinc mineralization.
- (2) Dolomite breccias in both Wiz and Oz Creek valleys contain fracture fillings of calcite, barite and red-brown-yellow sphalerite with minor galena. Hydrozincite is common on exposed surfaces. The dolomite breccia observed in talus on the north-eastern slope of Wiz Creek valley, stretching for over a 1000-ft. in length and 200 to 400 feet in width, contains visual grades of .5 to 20% zinc. Dolomite breccia with sphalerite fillings was also noted in talus adjacent to lead-zinc mineralization discovered in black shale on the southern slope of the Oz creek valley. Fractured or brecciated dolomite with galena fillings as pods, lenses, stringers and individual grains was observed as distinct zones adjacent to the zinc-rich dolomite breccia in both creek valleys.

Exploration to date, has shown that wherever mineralization was discovered in the black shale unit, the adjacent dolomite breccia also appears mineralized. The breccia zones in both the shale and dolomite units in Wiz Creek are probably related and presently hold best potential for higher grade lead-zinc mineralization. All mineralization found to date in Wiz Creek is well outlined by the grid controlled geochemical soil sampling program.

Assay Results and Sample Descriptions

Locations of assayed samples are shown on Figure 4. All assays were done by Whitehorse Assay Office Ltd., Box 4518, Whitehorse, Y.T., with the exception of assays Nos. 1987 and 1988 which were done by Acme Analytical Laboratories Ltd., 6455 Laurel Street, Burnaby 2, B.C.

The following table summarizes all assays taken:

<u>Assay No.</u>	<u>Assay Value</u>	<u>Hand Specimen Description</u>
1964	0.005 oz/ton Au 2.68 oz/ton Ag 15.6% Pb 11.61% Zn	Black dolomite shale breccia, well rounded breccia fragments-matrix of quartz, barite and calcite with irregular blebs of sphalerite and galena
1967	Trace Au 1.68 oz/ton Ag 9.45% Pb 17.3% Zn	Light grey, medium grained dolomite breccia, subrounded breccia fragments, breccia matrix of coarse grained, white dolomite and sphalerite
1965	0.87% Pb 0.26% Zn	Vuggy, light brown, fine to medium grained, shaly dolomite breccia, matrix of calcite, minor sphalerite and galena lining vugs and cavities.
1966	0.07% Pb 14.52% Zn	No hand specimen.
1968	0.05 oz/ton Au 2.14 oz/ton Ag 33.9% Pb 4.98% Zn	Brecciated, banded sedimentary barite(?) and dolomite shales, secondary porous white calcite and galena breccia filling; minor sphalerite.
1978	0.12 oz/ton Ag 1.33% Pb 0.09% Zn	Banded dark shaly dolomite, galena in small blebs along bedding planes
1979	0.56 oz/ton Ag 7.42% Pb 6.60% Zn	Angular dolomitic shale breccia, breccia filling of secondary calcite with blebs of galena and sphalerite; cross-cutting vein with minor galena.

<u>Assay No.</u>	<u>Assay Value</u>	<u>Hand Specimen Description</u>
1984	1.35% Pb 1.14% Zn	Brecciated pyritic black dolomitic shale; pyrite, minor galena and sphalerite fracture filling.
1987	1.54% Pb 0.56% Zn	Rusty, highly oxidized and leached brecciated shales.
1988	2.67% Pb 0.09% Zn	Pyritized, rusty, brecciated shales.

GEOCHEMISTRY (See Figure 4)

Preliminary Silt and Soil Sampling

Preliminary to staking of the OZ group, the following reconnaissance samples were taken: 35 soil samples, 28 stream sediment samples, 1 seep sediment sample and 2 rock grab samples.

Contour Soil Sampling (See Figures 5 and 6)

A total of 165 soil samples were taken along eight "contour lines". Two areas with anomalously high lead and zinc values are located in the east-central region of the property.

Grid Soil Sampling (See Figures 5 and 6)

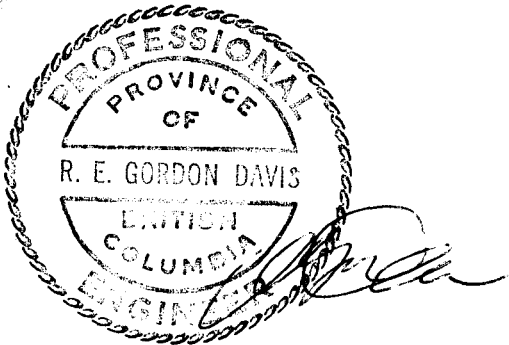
A total of 302 soil samples were taken at 100 and 200 ft. intervals along north-south grid lines spaced 200 ft. apart. The grid sample results have been contoured for lead in Figure 5, Figure 6 represents the same sample results contoured for zinc. The contoured results for both lead and zinc show highest values immediately north of the creek draining the main showing area. The anomalous zone is open at the west end and along two sites on the north side.

PROPOSED EXPLORATION

Extensive strong geochemical anomalies and widespread showings occur on the OZ claims. The claim group warrants a comprehensive exploration program during 1975 which should include detailed soil sampling, extensive prospecting, detailed geologic mapping, limited hand trenching and an initial diamond drilling program of at least 2000 feet.

An orthophoto and contour map at a scale of 1"= 400 ft. has been made of the entire property. The first job to be done in the spring will be to tie in the existing grid to this new, accurate base. The picket grid will be extended to include almost the entire property in a system of 400 ft. spaced lines, with 200 ft. spaced lines in showing areas. Soil sampling will be completed over all parts of this grid. A Crone JEM electromagnetic unit will be tested in the main showing area to see if it might be of use in tracing the mineralized graphitic shale bed under talus and overburden. Geologic mapping at 1"= 400 ft. will be completed over the entire property, and the showing areas will be mapped at even more detailed scales. Some clearing of talus and hand trenching may be useful on the showings.

Diamond drill sites can be selected on the main showing and geochemical anomaly based on the data collected during 1974. A preliminary program of drilling consisting of 2000 ft. in 4 or 5 holes is planned for 1975, to begin about the 15th to 20th of June. All of this drilling will be done on the main showing.



Respectfully submitted,

P. M. Dean
Peter M. Dean

February, 1975

LIST OF PERSONNEL

P. Dean	Geologist	1405 - 1011 Beach Avenue, Vancouver, B.C.
R.E.G. Davis	Geologist	5555 Newton Wynd, Vancouver, B.C.
W.J. Roberts	Geologist	124 Mundy Street, Coquitlam, B.C.
R. Carne	Geologist	1352 - W. 7th Avenue, Vancouver, B.C.
P. Sihota	Geological Assistant	13288 - 28th Avenue, Surrey, B.C.
P. Maser	Geological Assistant	#4-78 Rue St. Louis, Quebec 4, P.W.
M. Fretwell	Geological Assistant	2135 Abbot St., Kelowna, B.C.
P. Leggat	Geological Assistant	4264 Hobson Rd., Kelowna, B.C.
B. Dean	Cook	1405 - 1011 Beach Avenue, Vancouver, B.C.

SUMMARY OF COSTS
OZ CLAIM GROUP

	<u>Schedule No.</u>	<u>Total</u>
Salaries and Wages	"B"	\$ 1,681.66 ✓
Assays and Geochem Analysis	"C"	924.72 ✓
Field Equipment and Supplies	"D"	298.55 ✓
Camp Maintenance	"E"	438.77 ✓
Fuel	"F"	245.61 ✓
Rotary Wing	"G"	4,741.48 ✓
Fixed Wing	"G ₁ "	119.65 ✓
Miscellaneous Transportation	"H"	489.01 ✓
District Expense	"I"	<u>532.97 ✓</u>
		\$ 9,472.42
Administrative Charge 10%		<u>947.24</u>
TOTAL COSTS		<u>\$10,419.66</u>

Note: Copies of invoices or schedules of allocated costs in excess of \$200.00 have been included. Copies of other invoices will be provided upon request.

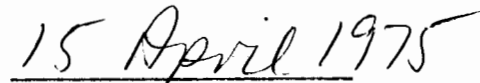
DYNASTY EXPLORATIONS LIMITED

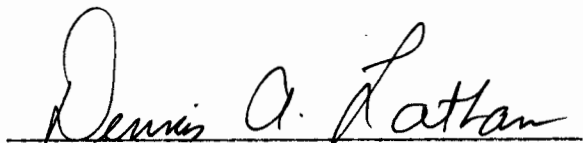
330 MARINE BUILDING
365 BURRARD STREET
VANCOUVER 1, B.C.

AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, PETER M. DEAN, 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 - 1974 Field Work - OZ Claim Group) is both correct and true.


Peter M. Dean


Date


Notary Public in and for the
Province of British Columbia.

KEY MAP

LEGEND

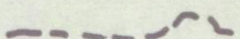
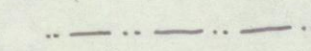



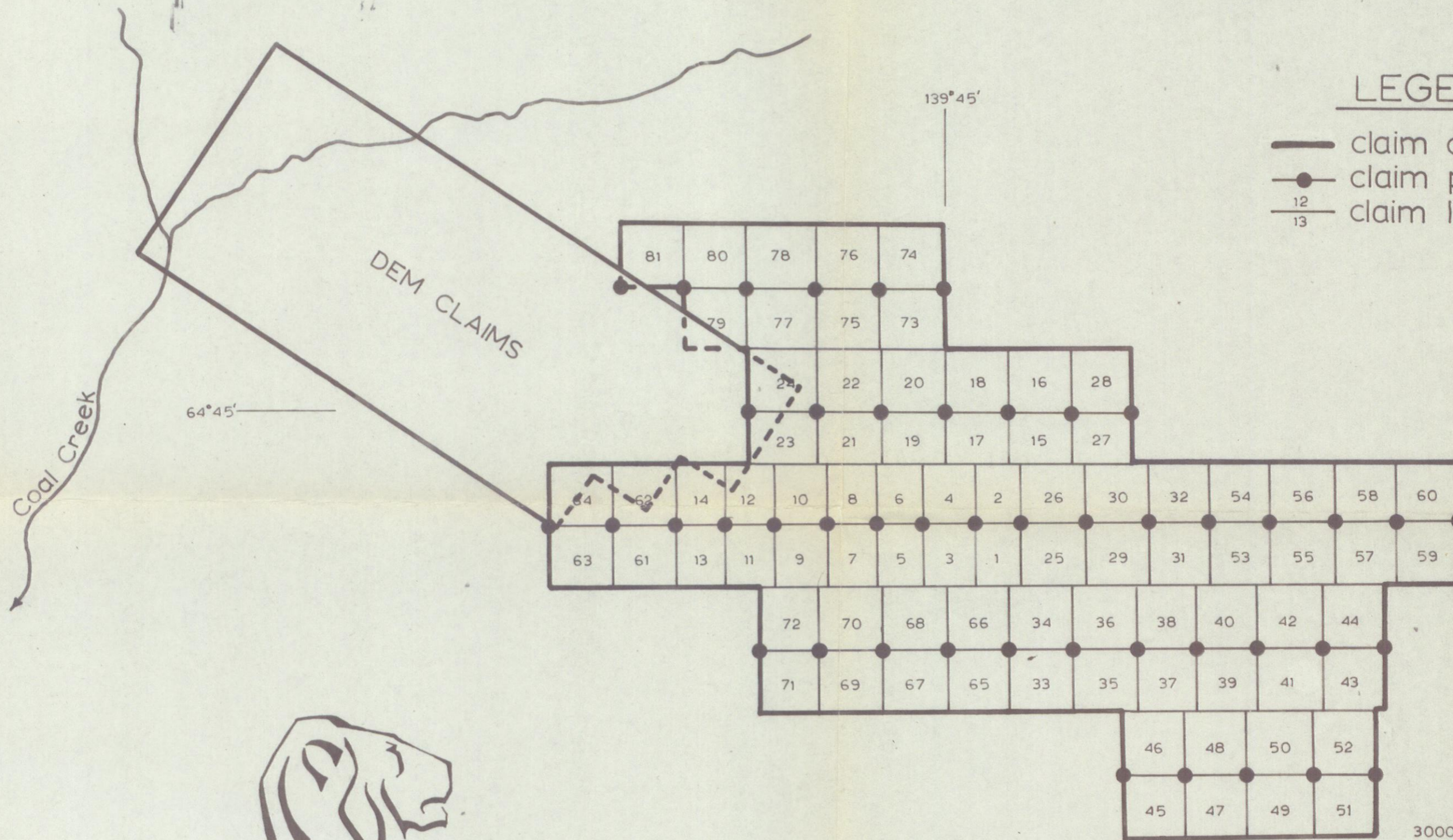
- ROADS 
- BORDERS 
- SETTLEMENTS  DAWSON
- REEF PROJECT CLAIM GROUPS  Kiwi
- BOUNDARY OF GEOCHEM. COVERAGE 



FIG. 1





LEGEND

- claim outline
- claim post
- $\frac{12}{13}$ claim line, name



DYNASTY EXPLORATIONS LTD.
 REEF PROJECT
OZ GROUP
 116B 12 & 13

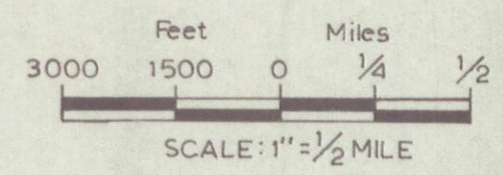


FIG. 2

DYNASTY EXPLORATIONS LTD.
 REEF PROJECT
 OZ GROUP
 GEOLOGY

SCALE: 1"=200'. N.T.S.: 116 B-12 & 13.
 DATE: OCT. 1974.

LEGEND:

- CREEK.
- GEOLOGIC CONTACT.
- FAULT. (APPROXIMATE).
- EXTENT OF OUTCROP.
- MINERALIZED ZONE.
- ANDESITE-GABBRO DYKE.
- MINERALIZED FLOAT.
- STRIKE AND DIP OF BEDDING.

14N
12N
10N
8N
6N
4N
2N
BL.0
2.5
4.5
6.5
8.5

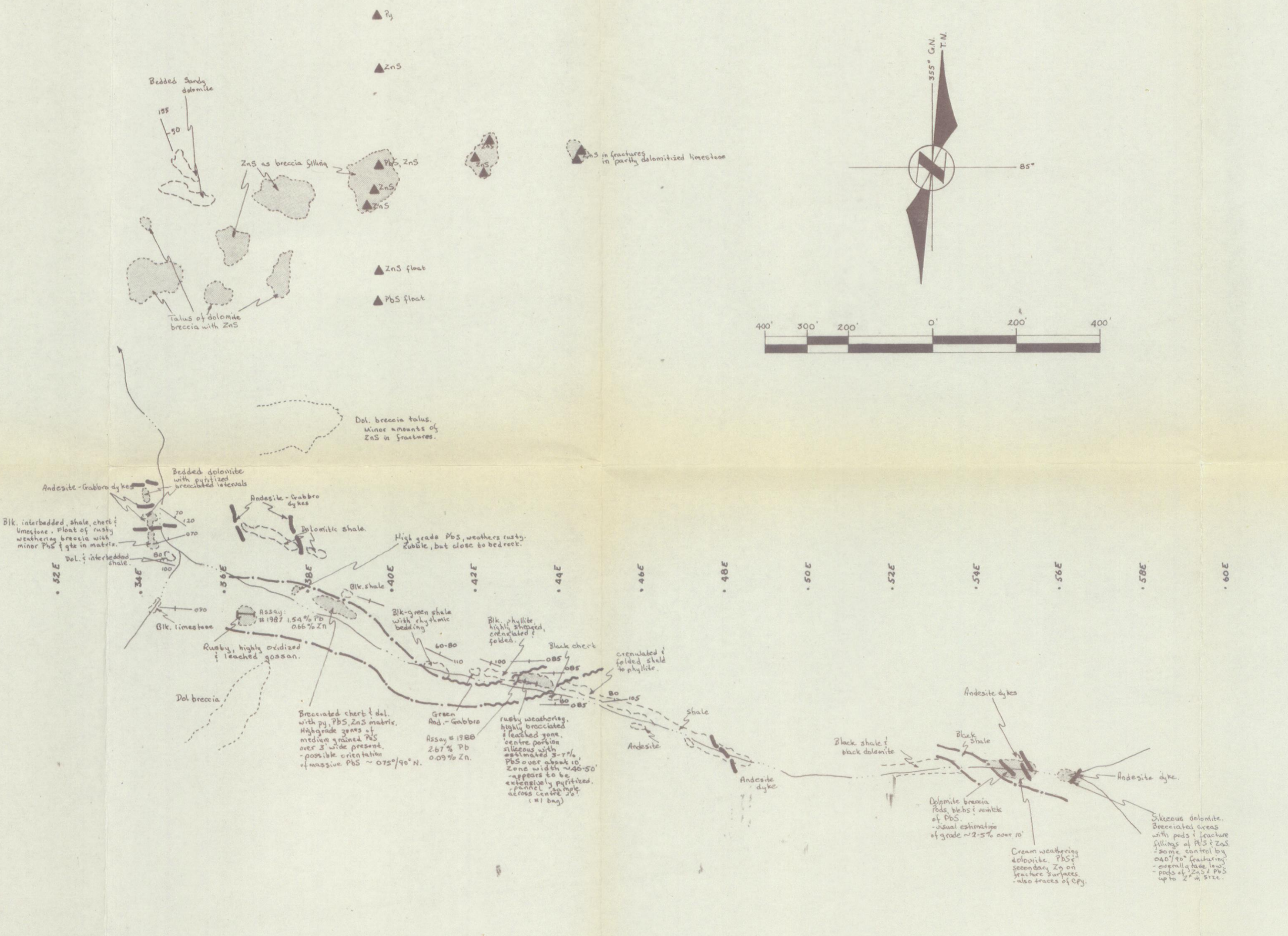


FIG. 3

DYNASTY EXPLORATIONS LTD.
 REEF PROJECT
OZ GROUP
 GEOCHEMISTRY

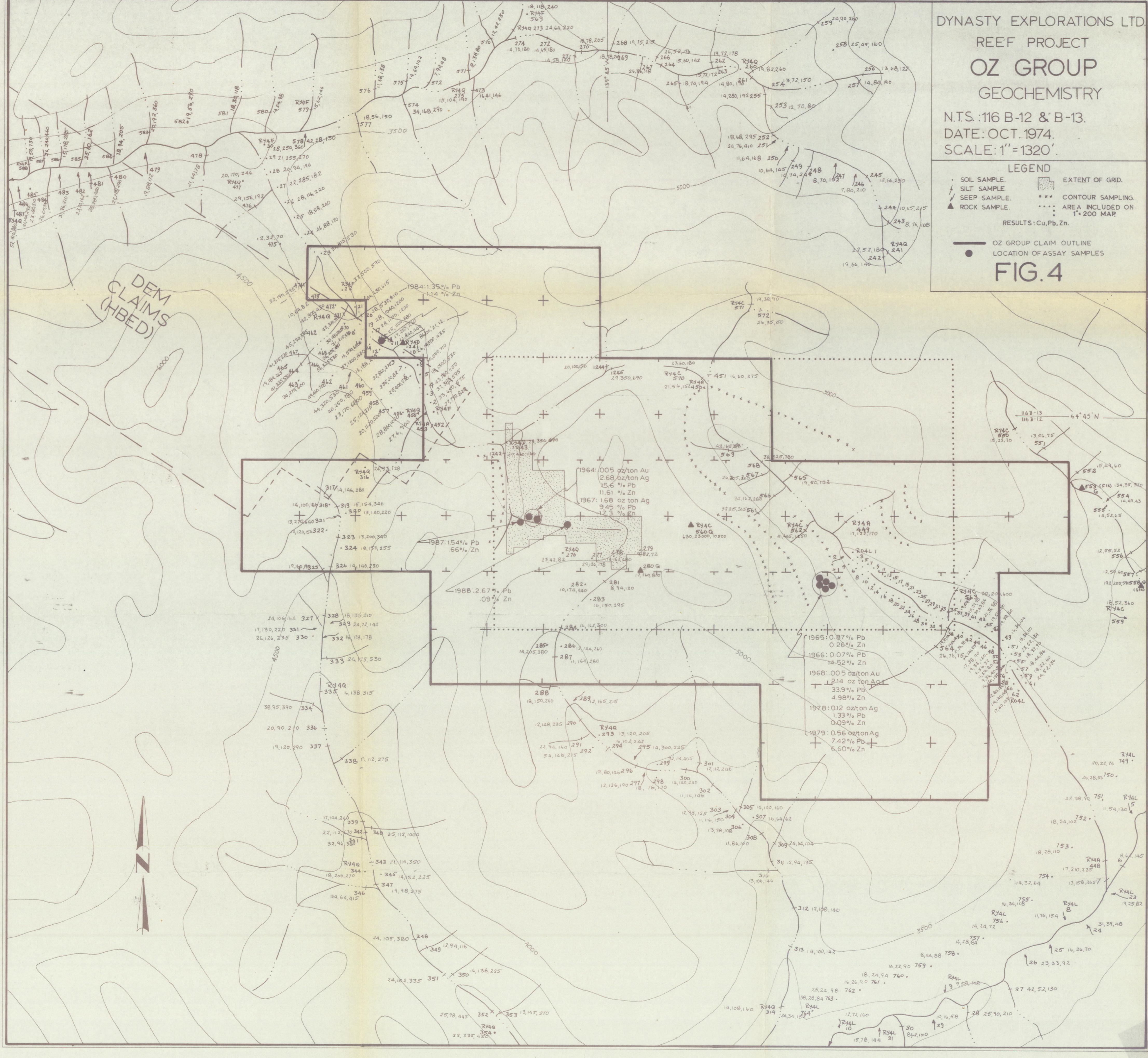
N.T.S. :116 B-12 & B-13.
 DATE: OCT. 1974.
 SCALE: 1" = 1320'

LEGEND

- SOIL SAMPLE.
- SILT SAMPLE.
- △ SEEP SAMPLE.
- ▲ ROCK SAMPLE.
- EXTENT OF GRID.
- *** CONTOUR SAMPLING.
- AREA INCLUDED ON 1" 200 MAP.

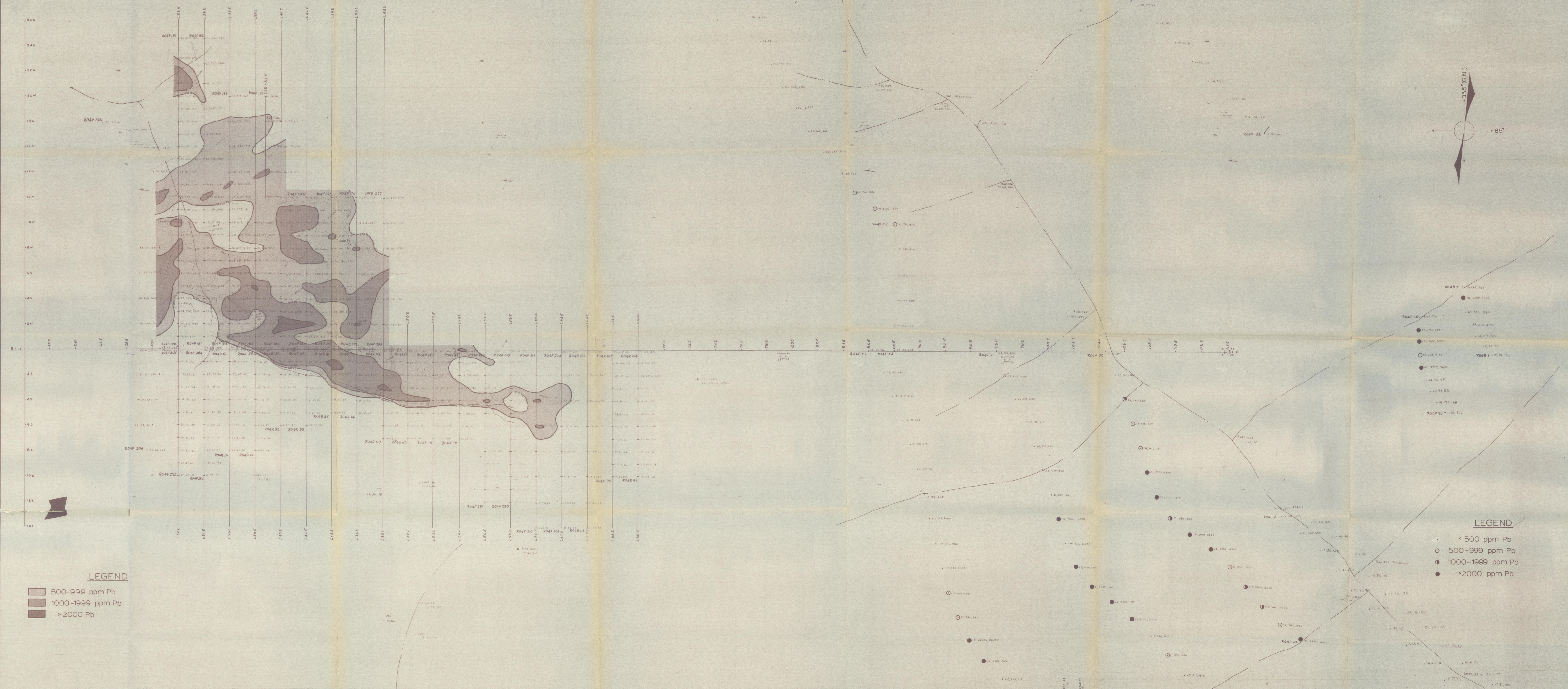
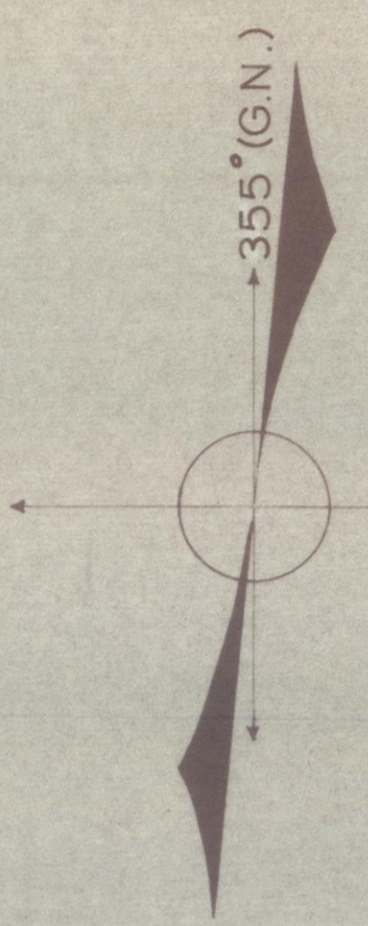
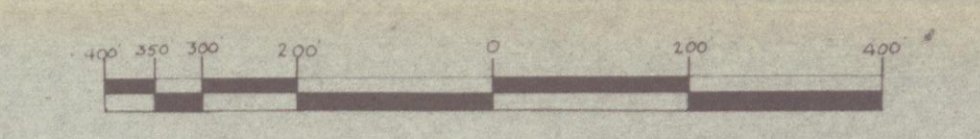
— OZ GROUP CLAIM OUTLINE
 ● LOCATION OF ASSAY SAMPLES

FIG. 4



DYNASTY EXPLORATIONS
 REEF PROJECT
 OZ GROUP
 DETAILED GEOCHEMISTRY
 (CONTOURED FOR LEAD)
 N.T.S. 116 B-12 & B-13
 DATE OCT. 1974
 SCALE 1" = 200'

FIG. 5



LEGEND

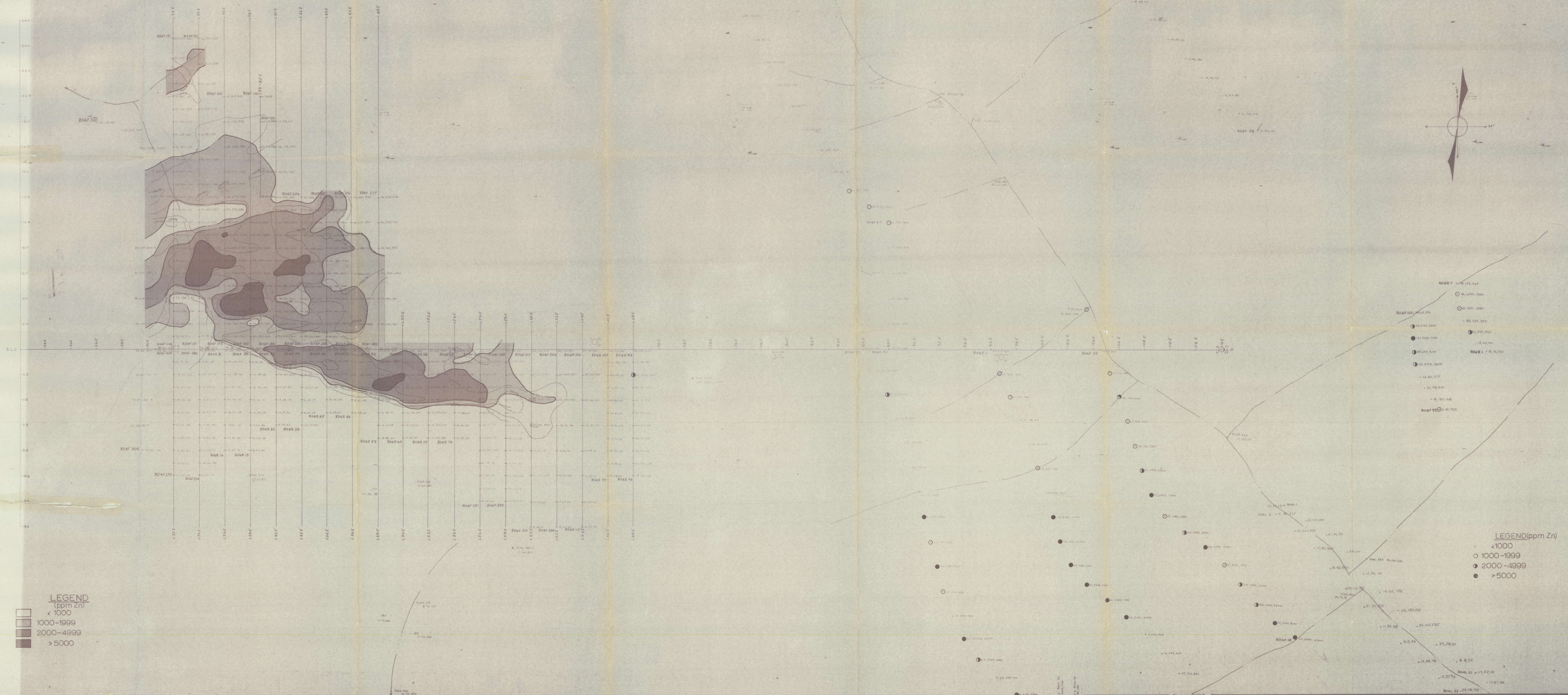
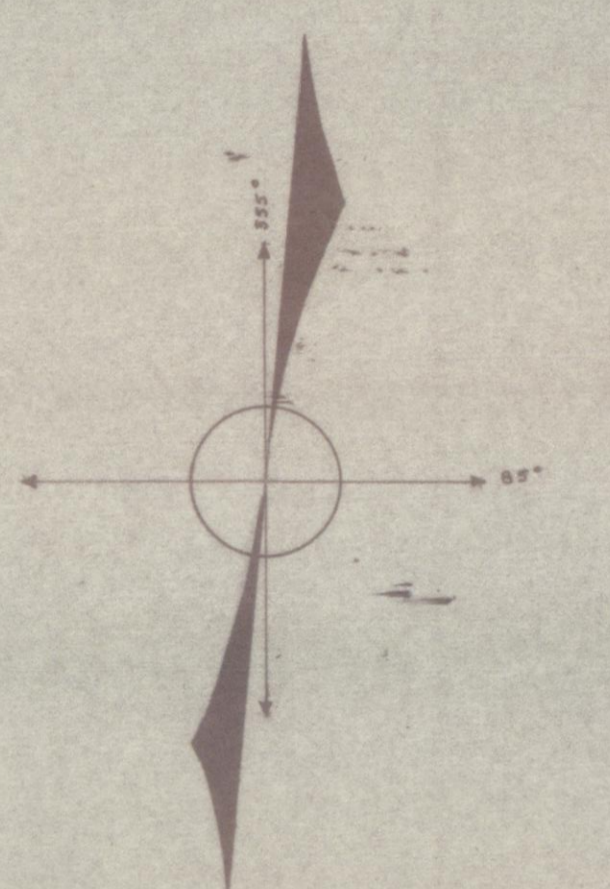
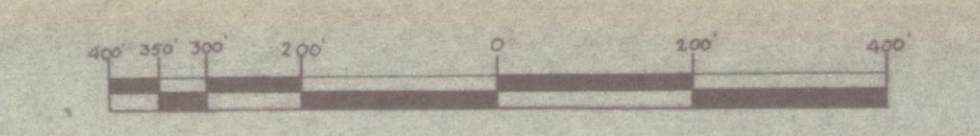
- 500-999 ppm Pb
- 1000-1999 ppm Pb
- >2000 Pb

LEGEND

- < 500 ppm Pb
- 500-999 ppm Pb
- 1000-1999 ppm Pb
- >2000 ppm Pb

DYNASTY EXPLORATIONS
 REEF PROJECT
 OZ GROUP
 DETAILED GEOCHEMISTRY
 (CONTOURED FOR ZINC)
 N.T.S. 116 B-12 & B-13
 DATE OCT. 1974
 SCALE 1" = 200'

FIG. 6



LEGEND (ppm Zn)
 ◻ < 1000
 ◻ 1000-1999
 ◻ 2000-4999
 ◻ > 5000

LEGEND (ppm Zn)
 ○ < 1000
 ○ 1000-1999
 ● 2000-4999
 ● > 5000