

012715

GEOLOGY REPORT

1974 FIELD WORK

FC CLAIM GROUP

Mackenzie Mining District  
Yukon Territory

N.T.S. 106-B-8

Latitude : 64°23'N.  
Longitude : 130°13'W.

By:

Robert C. Carne

DYNASTY EXPLORATIONS LIMITED  
February, 1975

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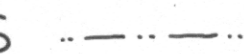


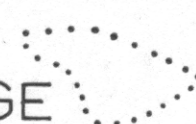
LIST OF CLAIMS

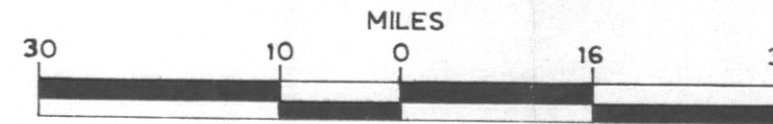
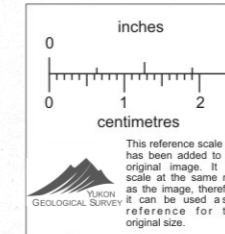
| <u>Claim No.</u> | <u>Grant Number</u> | <u>Recording Date</u> |
|------------------|---------------------|-----------------------|
| FC 6-9           | A73006-A73009       | July 23, 1974         |

DYNASTY EXPLORATIONS LTD.  
REEF PROJECT

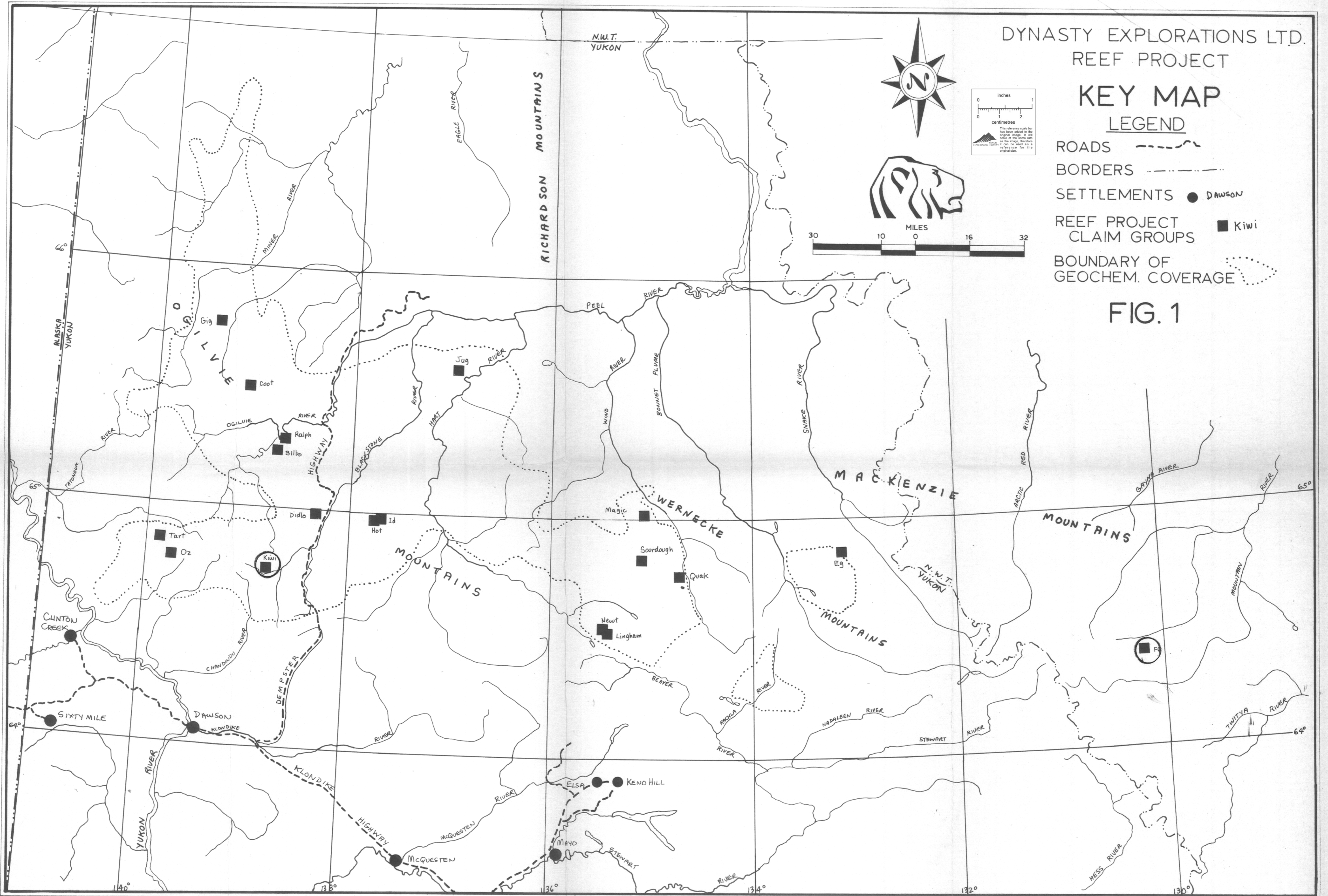
# KEY MAP

## LEGEND

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



### FIG. 1



# DYNASTY EXPLORATIONS LIMITED

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

GEOLOGY REPORT  
1974 FIELD WORK  
FC CLAIM GROUP

## INTRODUCTION

The FC Group was staked in June of 1974 to cover a barite-zinc showing discovered during a program of follow-up on anomalous geochemical samples taken late in the 1973 field season. Work on the property consisted of detailed prospecting and visual evaluation of the main showing.

## CONCLUSIONS AND RECOMMENDATIONS

In view of the physiography and outcrop size of the zinc-barite mineralization, coupled with the relative inaccessibility of the area, further work of a development nature would not be advised. However, a complete evaluation of the property with respect to the aforementioned constraints should be carried out in the 1975 field season if expedient.

## LOCATION AND ACCESS (See Figure 1)

The FC Group is located in the Mackenzie Mountains of west-central District of Mackenzie, Northwest Territories, approximately 10 miles north of Mountain River and 36 miles east-northeast of Misty Lake and centred near  $64^{\circ}23'N$ ,  $130^{\circ}13'W$ .

Access to the property is by helicopter with float-equipped fixed wing support available from Palmer Lake, 18 miles to the east.

GEOLOGY (See Figure 3)

Regional Geology

The FC Group is located in the Upper Paleozoic section of the Mackenzie Range. Rocks in the immediate vicinity of the FC Group comprise the following lithologies:

| <u>Formation Name</u> | <u>Age</u>                              | <u>Lithology</u>  |
|-----------------------|---|---|
|                       | Silurian and Devonian                   | Light grey, well bedded dolomite.   |
| Camsell Formation     | Lower Devonian                          | Light grey and buff weathering, massive, porous limestone breccia.                                    |
| Mt. Kindle Formation  | Upper Ordovician and Silurian           | Thin bedded dark grey to black and minor light grey weathering dolomite, locally massive and reefoid. |
| Road River Formation  | Ordovician, Silurian and Lower Devonian | Black shales, siltstone commonly calcareous, minor argillaceous dark limestone                        |

The rocks are broadly folded and overthrust upon one another along NW-SE trending, westerly dipping thrust faults.

Property Geology

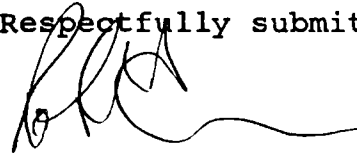
The rocks of the FC Group are light grey weathering, well bedded dolomites of Silurian and Devonian age. Mineralization outcrops on the north flank of a north-south trending ridge and is well exposed by a small creek canyon. The maximum extent of mineralized outcrop in a plane approximately vertical to bedding, is an area 25 feet thick by 40 feet wide. A typical section across the mineralization, perpendicular to bedding, is shown in Figure 4. In initial field observations only two types of economic mineralization were observed; light brown, coarse sphalerite overlain by massive, coarsely crystalline barite. At the footwall of the mineralized zone, barren dolomite grades

into massive sphalerite and barite over five feet. Overlying the ten foot zone of massive sphalerite-barite mineralization is a ten to fourteen foot thick zone of massive, coarsely crystalline white barite. The contact between the hanging wall dolomite and massive barite is relatively irregular and abrupt. A fifteen foot thick zone of intense fracturing, approximately parallel to bedding of the country rock cuts the upper five feet of the barite and the lower ten feet of the hanging wall dolomites. The mineralizes zone itself is approximately elliptical in plan view.

DISCUSSIONS

The mode and type of mineralization on the FC Group is suggestive of karstic type of deposition. The fracture capping of the deposit may be a collapse breccia developed during or after the formation of karstic terrain. On the basis of these observations, the region and certainly the area immediately adjacent to the FC showing merits further consideration, although the deposit itself is not considered to be of sufficient size to merit economic exploitation.

Respectfully submitted,



R. Carne

February, 1975



Appendix I

LIST OF PERSONNEL

|           |           |   |
|-----------|-----------|---|
| C. Godwin | Geologist | 312 - 9288 Cameron,<br>Burnaby 3, B.C.  |
| R. Carne  | Geologist | 1352 - W.7th Avenue,<br>Vancouver, B.C. |




# DYNASTY EXPLORATIONS LIMITED


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

## AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, ROBERT C. CARNE, 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 Report - 1974 Field Work - FC Claim Group) is both correct and true.

  
\_\_\_\_\_  
Robert C. Carne

May 14, 1975  
Date

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

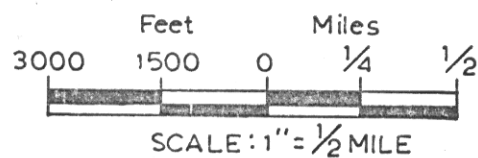
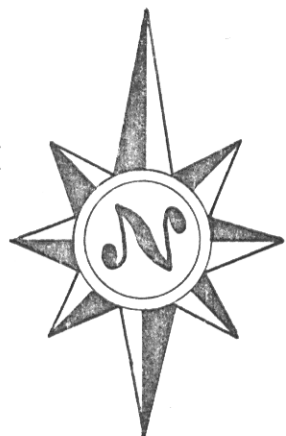
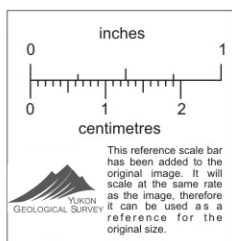


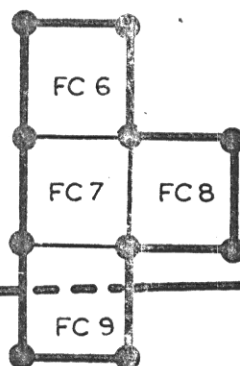
FIG. 2



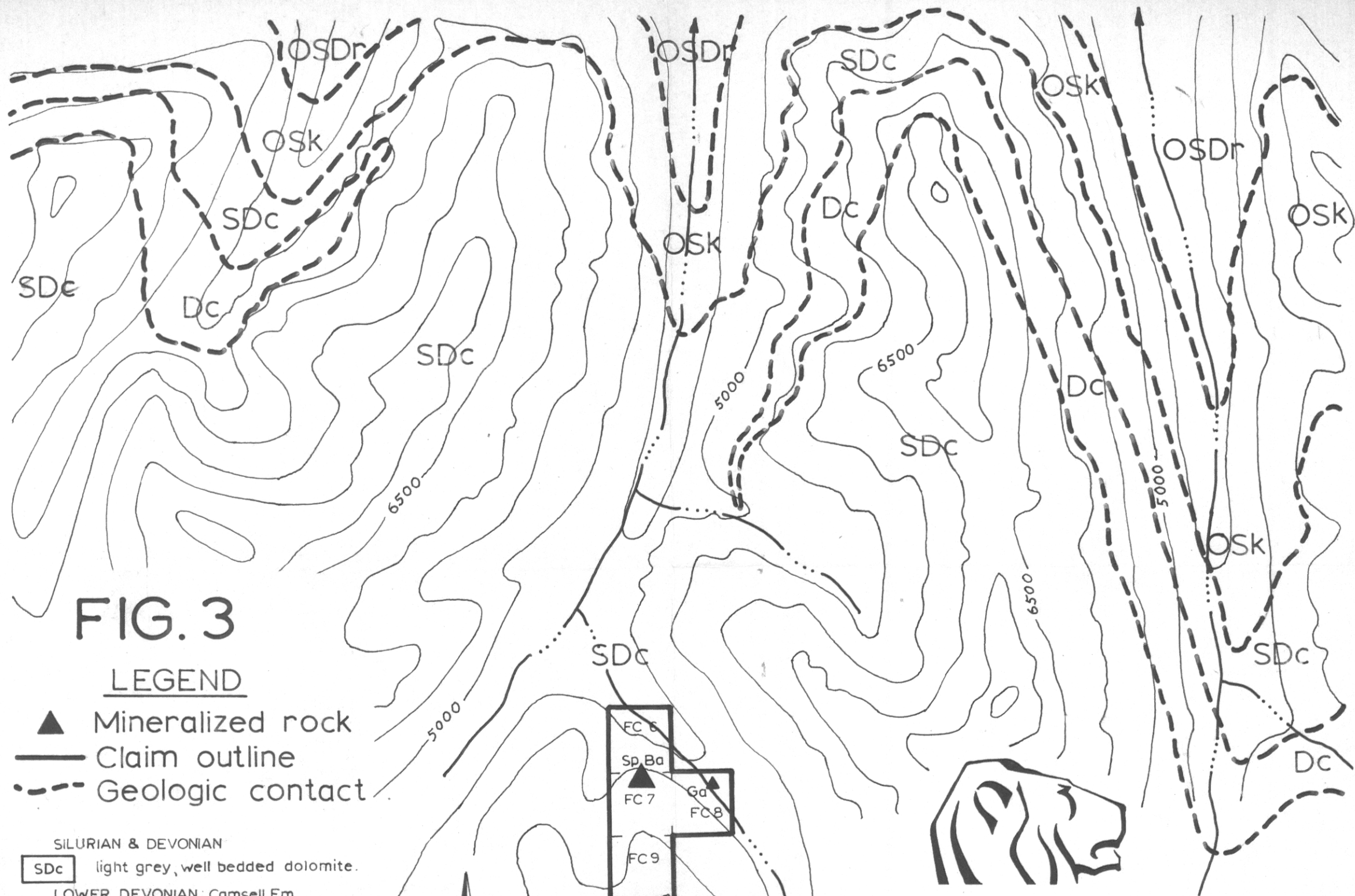
LEGEND

- claim outline
- claim post
- claim line, name

RED CLAIMS  
1-286



DYNASTY EXPLORATIONS LTD.  
REEF PROJECT  
FC GROUP



**FIG. 3**

**LEGEND**

- ▲ Mineralized rock
- Claim outline
- - - Geologic contact

**SILURIAN & DEVONIAN**

**SDc** light grey, well bedded dolomite.

**LOWER DEVONIAN: Camsell Fm.**

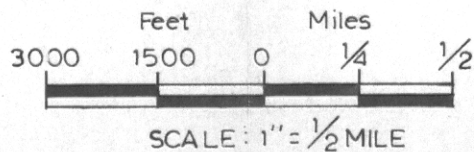
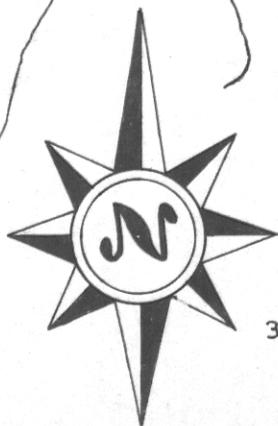
**Dc** light grey and buff weathering massive, porous limestone breccia.

**UPPER ORDIVIAN & SILURIAN**

**OSk** Mt. Kindle Fm.  
thin bedded dark grey to black and minor light grey weathering locally massive vuggy and reefoid.

**ORDIVICIAN, SILURIAN & LOWER DEVONIAN**

**OSDr** Road River Fm.  
black shales siltstone commonly calcareous minor argillaceous dark limestone.

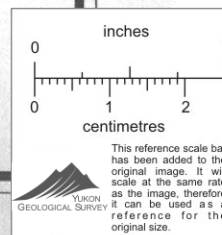


**DYNASTY EXPLORATIONS LTD.**

**REEF PROJECT  
FC GROUP**

**GEOLOGY**

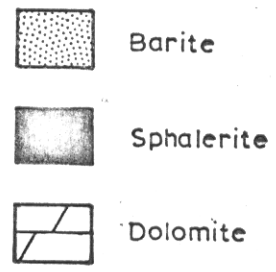
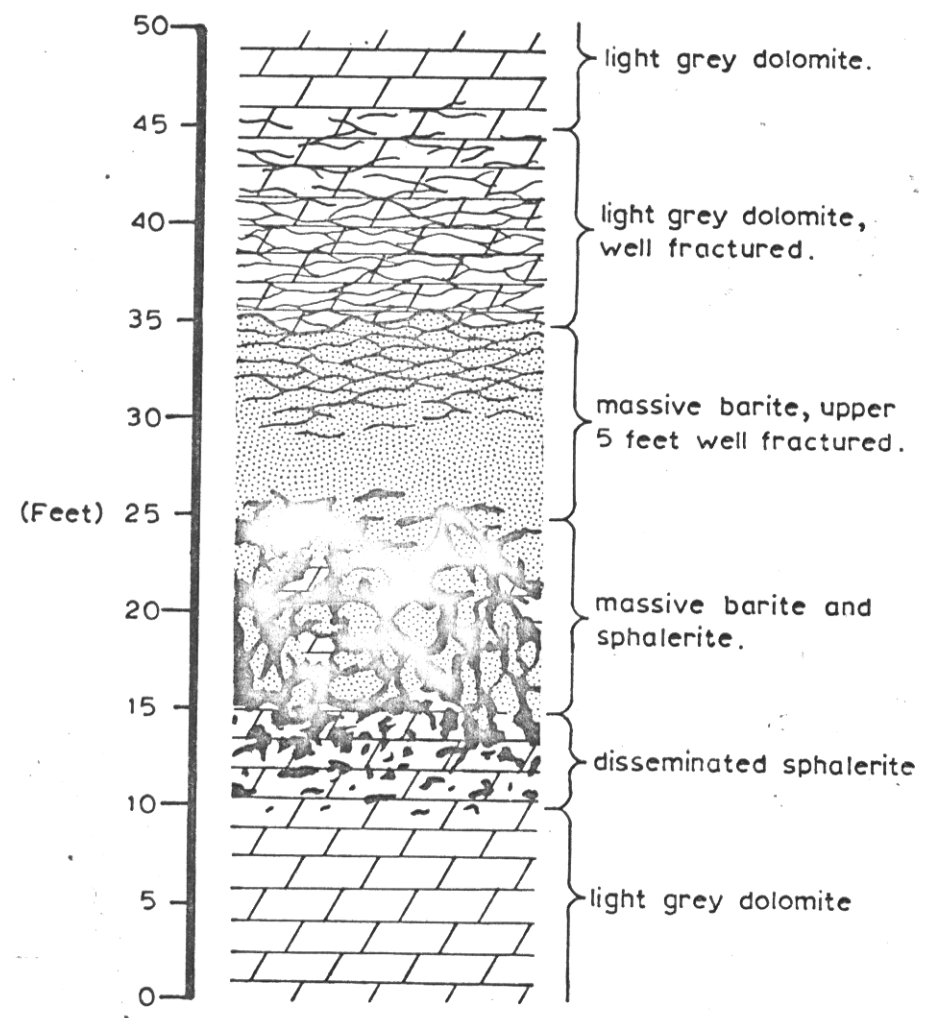
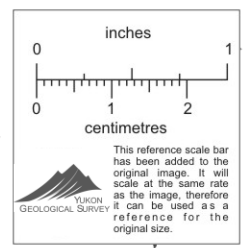
(from G.S.C. Open File Map 205, June 1974)



# TYPICAL SECTION ILLUSTRATING MODE OF MINERALIZATION

## FIG. 4

SCALE: 1" = 10'  
N.T.S.: 106B-8  
DATE: FEB. 1975



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FC GROUP

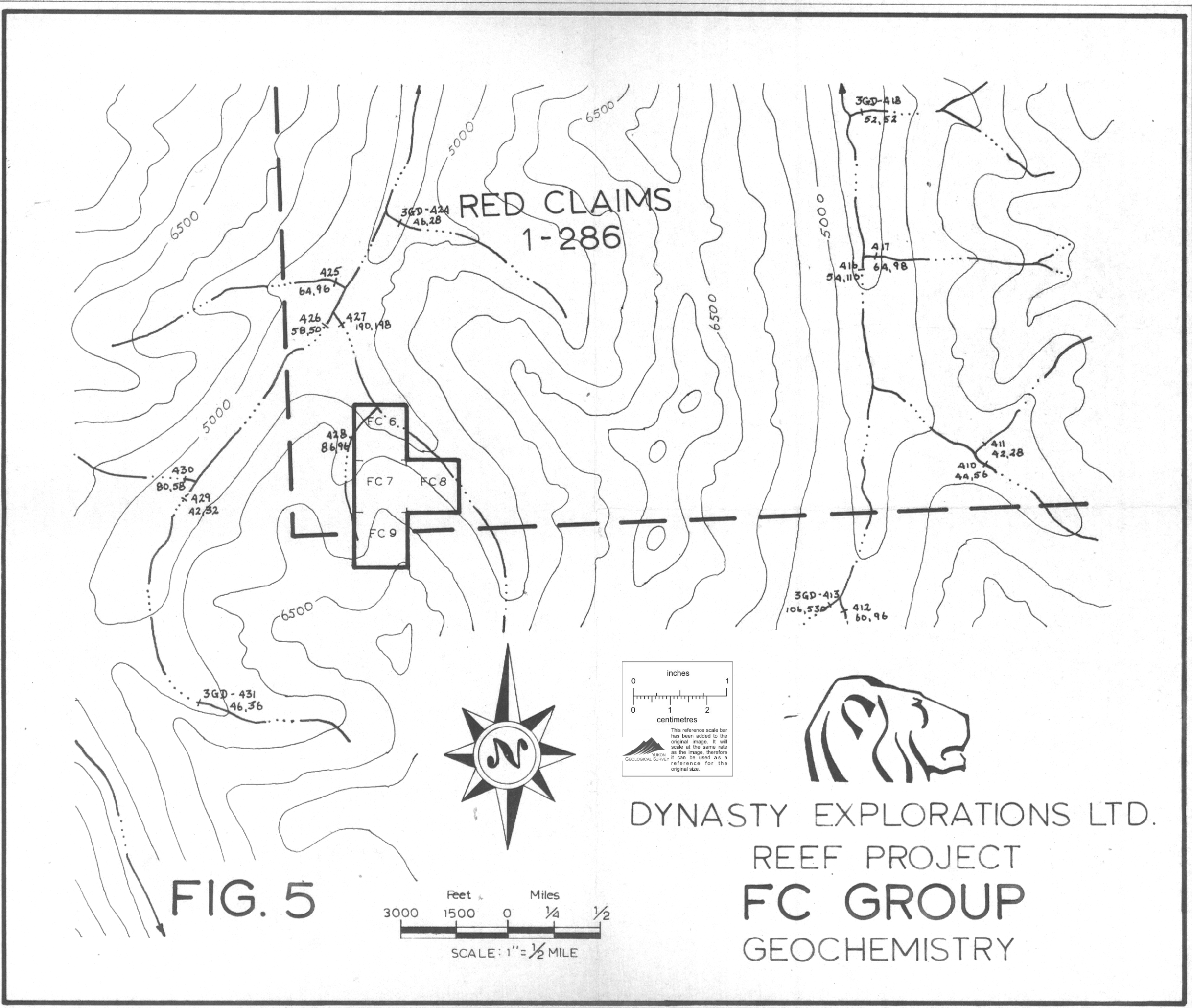
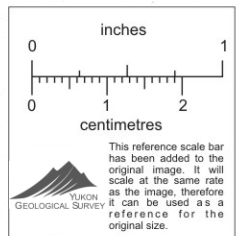
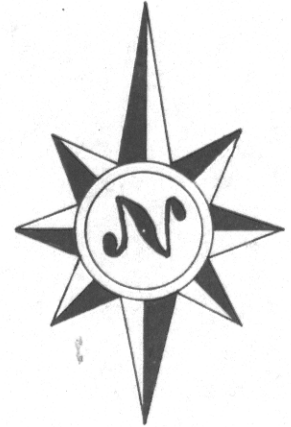
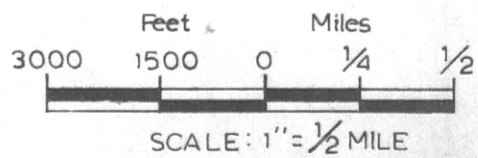


FIG. 5



DYNASTY EXPLORATIONS LTD.  
 REEF PROJECT  
**FC GROUP**  
 GEOCHEMISTRY