

4429

A Report on a Magnetometer Survey
on the Gypsy Claims, Omineca Mining
Division, British Columbia

93M / 3E

Covering: Gypsy 1-32 and Gypsy 1 Fr-9 Fr

Located: 27 miles north of Smithers
Latitude 55°11' N
Longitude 127°13' W

From: 10 April 1973 to 24 April 1973

By

G. Jilson, B.Sc. and
J. G. Simpson, Ph. D., P. Eng.

18 May 1973

Department of
Mines and Technical Surveys
ANNUAL REPORT
NO. 4429

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INTRODUCTION

This report describes a magnetometer survey conducted over a portion of the Gypsy claims in the Omineca Mining Division of British Columbia, by Great Oaks Mining Corporation on behalf of the owners. The purpose of the survey was to further define and locate on the ground a previously delineated aeromagnetic complex (Woolverton 1969) and establish the relationship of known mineralization to the magnetic pattern.

CLAIMS

The property consists of 32 full and 9 fractional mineral claims. Forty of the 41 claims were grouped into the "A" group on 24 April 1973, the remaining ungrouped claim is Gypsy 28.

| Claim Name | Record Number | Expiry Date | Date |
|------------------|-----------------|--------------|-------------|
| Gypsy 1-10 incl. | 108739-48 incl. | 26 Apr. 1973 | P. F. Bland |
| Gypsy 1 Fr-4 Fr | 108749-52 incl. | 26 Apr. 1973 | P. F. Bland |
| Gypsy 11-32 | 113342-63 incl. | 27 July 1973 | L. E. Ross |
| Gypsy 5 Fr-9 Fr | 113364-68 incl. | 27 July 1973 | L. E. Ross |

Part of the costs of the magnetometer survey described in this report are being applied towards one year's assessment credit on claims Gypsy 1-10 and 1 Fr-4 Fr.

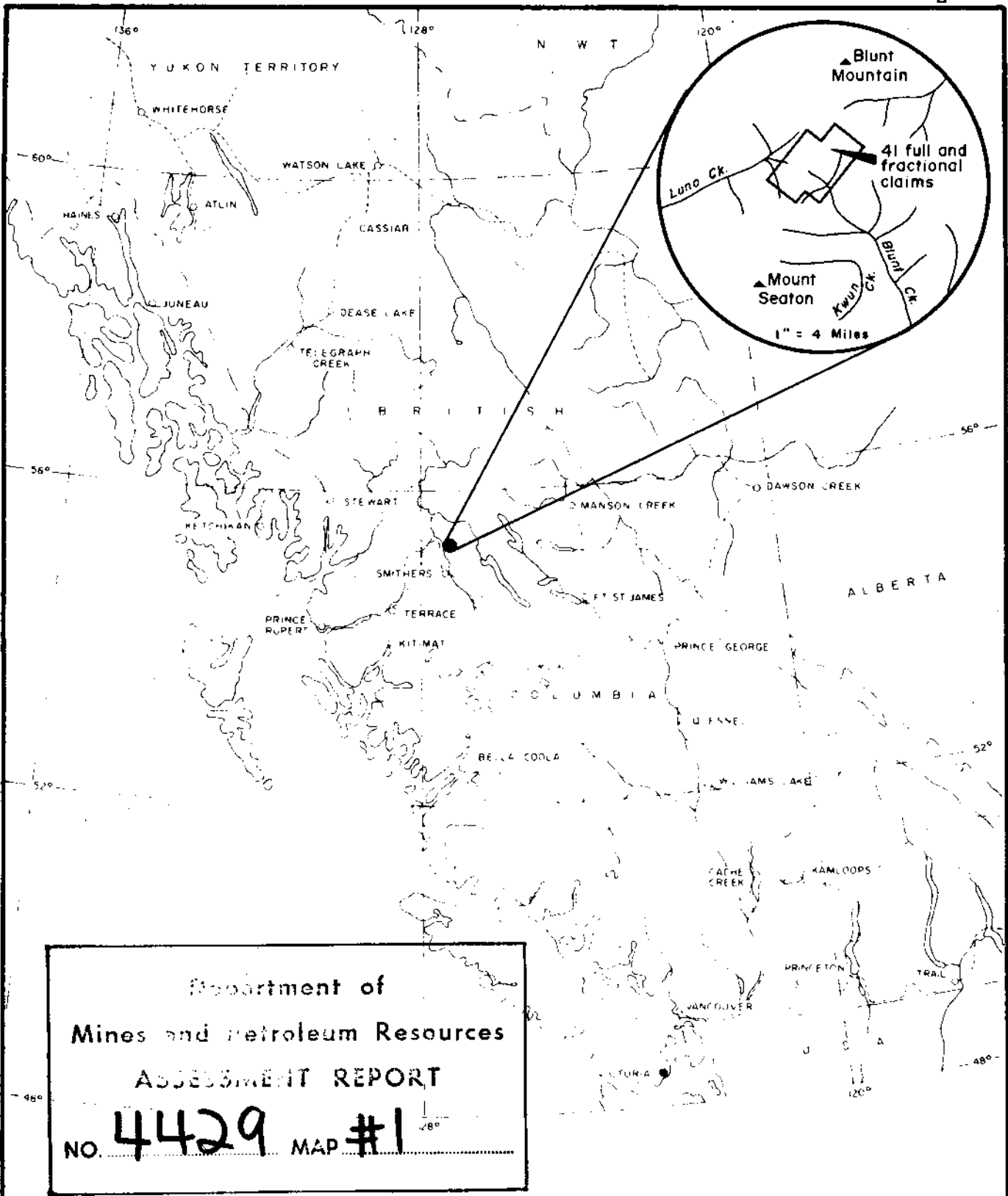
LOCATION AND ACCESS

The property is located midway between Blunt Mountain and Mount Seaton, 27 miles north of Smithers in the Omineca Mining Division of British Columbia.

Access is most convenient by helicopter from Smithers. Alternatively access to within three miles of the centre of the property can be gained by four wheel drive vehicle in summer or snowmobile in winter, using the Forestry road to Kwun Creek and a tote road extension following upstream.

TOPOGRAPHY AND DRAINAGE AND VEGETATION

The area of the property is one of rugged topography and great relief. Elevations range from about 4,700 feet to 7,200 feet. Land forms are typically those of an area of alpine glaciation. A notable feature of the topography is a relatively low elliptically-shaped area, with long axis trending N30°E, formed by two broad opposing cirques at the headwaters of Blunt Creek. This feature suggests the presence of a similarly shaped subcrop of relatively soft rock; perhaps an altered intrusive stock.



GYPSY CLAIMS

OMINECA MINING DIVISION

PROPERTY LOCATION MAP

BRITISH COLUMBIA
SCALE 1" = 125 MILES

Drainage to the southwest is into Blunt Creek and via Harold Price Creek to Suskwa River. To the northeast, drainage is into Luno Creek and hence directly into Bulkley River.

Vegetation is typically alpine. Above 5,500 feet the steep slopes are generally bare of vegetation, between 5,500 feet and 5,000 small trees and meadow tundra are plentiful; below 5,000 feet trees become increasingly larger and more dense.

GEOLOGICAL SETTING

The property is shown by Carter and Kirkham (1969) to be underlain by a granitic pluton intrusive into upper Jurassic and lower Cretaceous sedimentary rocks. An upper Cretaceous granodiorite stock forms the core of Blunt Mountain, within which are several areas of known porphyry mineralization.

PREVIOUS WORK

A program of helicopter borne magnetic and electromagnetic surveys was carried out over the general area of Blunt Mountain, in 1969 under the supervision of R. Woolverton, P. Eng. Some 24 conductors were outlined by the survey, of which three were considered to be associated with magnetic patterns of possible interest as porphyry indicators.

MAGNETOMETER SURVEY

Procedure

The present magnetometer survey was carried out to verify the aeromagnetic pattern and certain areas of interest for further work. Lines were run at intervals varying from 400 to 800 feet apart at right angles from a northeasterly trending base line. Readings were taken at 100 foot intervals along the lines using a Sharpe MF-1 fluxgate magnetometer. Corrections were made for diurnal drift by back-checking to previously established base stations and all readings were adjusted to a common base point before plotting.

Results

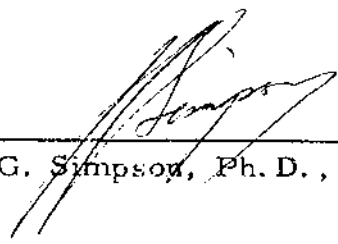
The range of readings in the survey area is relatively low from just below 2,700 to 3,000 gammas. The most significant feature is a spherical low at the southwest end of the grid roughly centred on the base-line between lines 68 and 84N. The northern section of the grid shows only modest variation indicating a uniform rock type. A number of readings shown as greater than 3,000 gammas were originally recorded at a uniform 8,000 gammas. A field check indicated that these readings were probably

due to operator error in switching to battery check instead of an increased scale. Extreme winter conditions prevented a complete recheck of the questionable results, none of which occur in the area of the magnetic low which is the feature of primary interest.

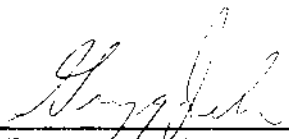
CONCLUSIONS AND
RECOMMENDATIONS

Although somewhat limited in scope the survey outlines a magnetic low which is of the shape and size common to areas of porphyry mineralization in the Babine porphyry belt and generally attributable to secondary alteration of an intrusive plug or stock. Heavy pyrite was noted in isolated breccia boulders in the vicinity of the magnetic low at the time the original claims were staked. A combination of these features suggests that a detailed program of geological mapping, prospecting and rock and soil geochemical sampling is warranted in the area of the magnetic low together with a further check on the area of spuriously high magnetic readings, at least to establish rock types.

Respectfully submitted,



J. G. Simpson, Ph. D., P. Eng.



G. Jilson, B. Sc.

APPENDIX (i)

TIME AND COST DISTRIBUTION

APPENDIX (i)

TIME AND COST DISTRIBUTION

Personnel

| Name | Position | Rate | Dates | Days | Cost |
|-----------------------|--------------------------|-----------------|----------------|------|--------|
| J.G. Simpson, P. Eng. | Supervisor | \$150 | 15 & 24 Apr. | 1 | \$ 150 |
| G. Jilson, B.Sc. | Field Co-ordinator | \$75 | 15, 23-24 Apr. | 3 | 225 |
| P. Bland | Magnetometer Operator | \$50 per day | 12-24 Apr. | 13 | 650 |
| F. Bland | Field Assistant | \$30 per day | 12-24 Apr. | 13 | 390 |

Camp Costs

26 man days at \$12 per day 312

Magnetometer Rental

\$50 per week for 2 weeks 100

Okanagan Helicopters

Invoice 72660 183
 Invoice 72668 157

Drafting

C. L. Cory Ltd. - 15 hours at \$5 per hour 75

Total Cost \$2,242

Declared before me at the *City*

Unincorporated

I swear that the above costs are accurate and were incurred for the work described herein.

June 1973.

J. G. Simpson

J. G. Simpson, P. Eng.

APPENDIX (ii)
CERTIFICATION

APPENDIX (ii)

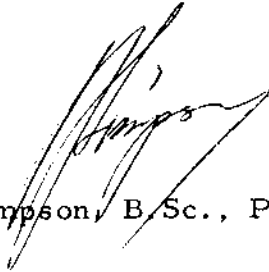
CERTIFICATION

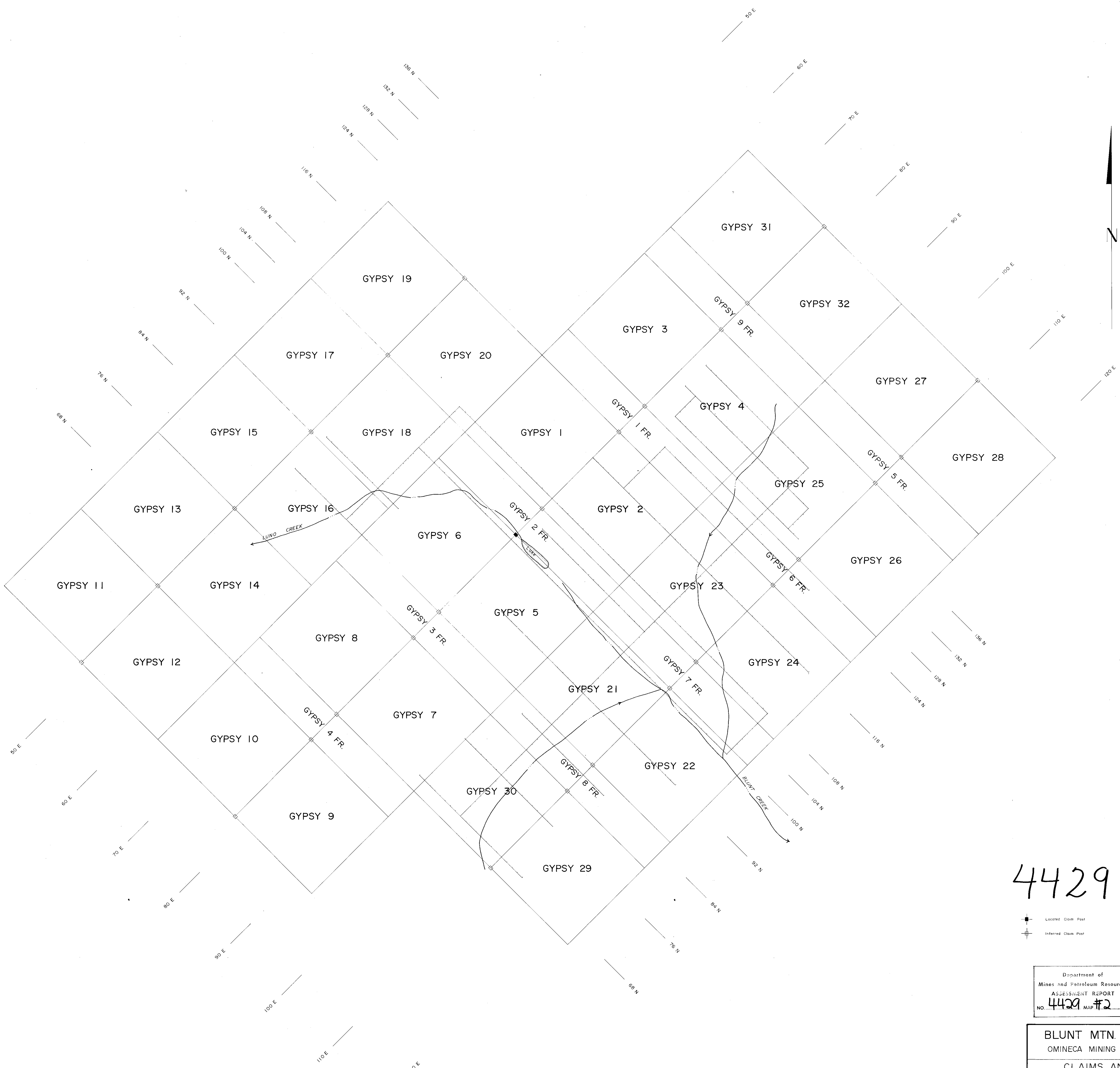
I, John Glenn Simpson, of 720 Anderson Crescent, West Vancouver, British Columbia, do certify that:

1. I graduated from King's College, London University, with a B.Sc. (Hons.) Geology in 1958, and was awarded a Ph.D. (External) from London University in 1969.
2. I am a Fellow of the Geological Association of Canada and a registered Professional Engineer in the Province of British Columbia and have practiced my profession in Africa, Europe and Canada for the past 15 years.
3. The work described in this report was carried out under my direction and supervision between the dates shown.

Dated at Vancouver, British Columbia,

this 31st day of May, 1973.


J. G. Simpson, B.Sc., Ph.D., P.Eng.



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Located Claim Post
 Inferred Claim Post

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BLUNT MTN. PROSPECT
 OMINECA MINING DIVISION, B. C.
 CLAIMS AND GRID

400 200 0 200 400 600 800 1000
 FEET
 Drawn by: C. L. C. Map No. 1

To accompany a report on a magnetometer survey by G. Wilson and J. G. Simpson P. Eng., May 1973



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Department of
 Mines and Petroleum Resources
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 NO. 4429 MAP #3

BLUNT MTN. PROSPECT
 OMINECA MINING DIVISION, B. C.
 MAGNETOMETER SURVEY

400 300 0 300 600 1200
 FEET
 Drawn by: C. L. C. Map No. 2

To accompany a report on a magnetometer survey by
 G. Jilson and J. S. Simpson PhD. P. Eng., May 1973.