

84-#918 - 12756

10/85

**FRANK MILAKOVICH'S
ABRAHAM PROPERTY**

Alberni M.D. NTS 92F/6W
Latitude 49°18'N Longitude 125°20'W

**REPORT ON
GROUND MAGNETIC SURVEY**

by

**D. Cukor
NVC ENGINEERING LTD.
GEOLOGICAL BRANCH
ASSESSMENT REPORT**

June, 1984
Vancouver, B.C.

12,756

TABLE OF CONTENTS

| | <u>Page</u> |
|---|-------------|
| 1. INTRODUCTION | 1 |
| 2. REVIEW | 2 |
| 2.1 Summary and Conclusions | 2 |
| 2.2 Recommendations | 2 |
| 3. PROPERTY | 3 |
| 3.1 Location | 3 |
| 3.2 Access | 3 |
| 3.3 Claims | 4 |
| 3.4 Topography and Climate | 4 |
| 4. GROUND MAGNETIC SURVEY | 5 |
| 4.1 Field Procedure | 5 |
| 4.2 Data Presentation | 5 |
| 4.3 Discussion of Results | 5 |
| APPENDIX | |
| List of Employees and Costs Incurred During the Abraham Claim Ground Magnetic Survey | |

ILLUSTRATIONS

In Text, After Page

| | | |
|----------|-----------------------------|---|
| FIGURE 1 | Location Map | 3 |
| FIGURE 2 | Claim Map | 4 |
| FIGURE 3 | Ground Magnetic Survey Plan | 5 |

**FRANK MILAKOVICH'S
ABRAHAM PROPERTY
PORT ALBERNI, B.C. AREA**

1. INTRODUCTION

During the period between May 20th and May 24th, 1984, a three-man crew prepared a grid and a ground magnetic survey was performed. The crew consisted of F. Milakovich, N. Whitmore, B. Sc. and the author, D. Cukor, B.Sc. The program was carried out on behalf of F. Milakovich, who provided the financing.

During this exploration program, 5.7 km of grid were cut and 1.3 km of road surveyed; the ground magnetic survey was run over the grid and the network of roads for a total length of 7.0 km.

This, the ground magnetic survey, is the first step in exploration on this property; the ground magnetometer was run to facilitate the planning of the next upcoming program - geological mapping and geochemical soil sampling.

2. REVIEW

2.1 Summary and Conclusions

The Abraham Claims are a grass-root prospect, located in an area of intensive mining exploration activity. The geology on the claims, as much as could be gathered from a very brief inspection, is, in general, similar to the geology of the surrounding claims, with widespread Karmutsen Volcanics, and with some diorite.

On other claims in the vicinity, the ground magnetic survey proved to be a good exploration tool, when combined with geological mapping and geochemical soil survey.

The survey encountered a relief of 2,150 gammas and a considerable amount of magnetic structure (see Figure 3), however, to interpret this structure, a second phase of exploration will have to be carried out including geological mapping and geochemical soil survey.

2.2 Recommendations

Since the ground magnetic survey cannot be interpreted properly without geological mapping, a mapping program is necessarily part of the following step of exploration. As well, the magnetically anomalous areas should be defined more precisely; fill-in lines should be cut and a survey conducted on 25 metre stations (as opposed to 50 metre stations used in this survey). A geochemical soil survey should also be performed over the grid during the next stage. This next stage of exploration will require a budget of \$15,000.

3. PROPERTY

3.1 Location

The Abraham property is located approximately 40 kilometres west of Port Alberni, and approximately 10 kilometres west of Taylor Arm (the west end of Sproat Lake). The Port Alberni-Ucluelet Highway runs just past the southwest end of the claims.

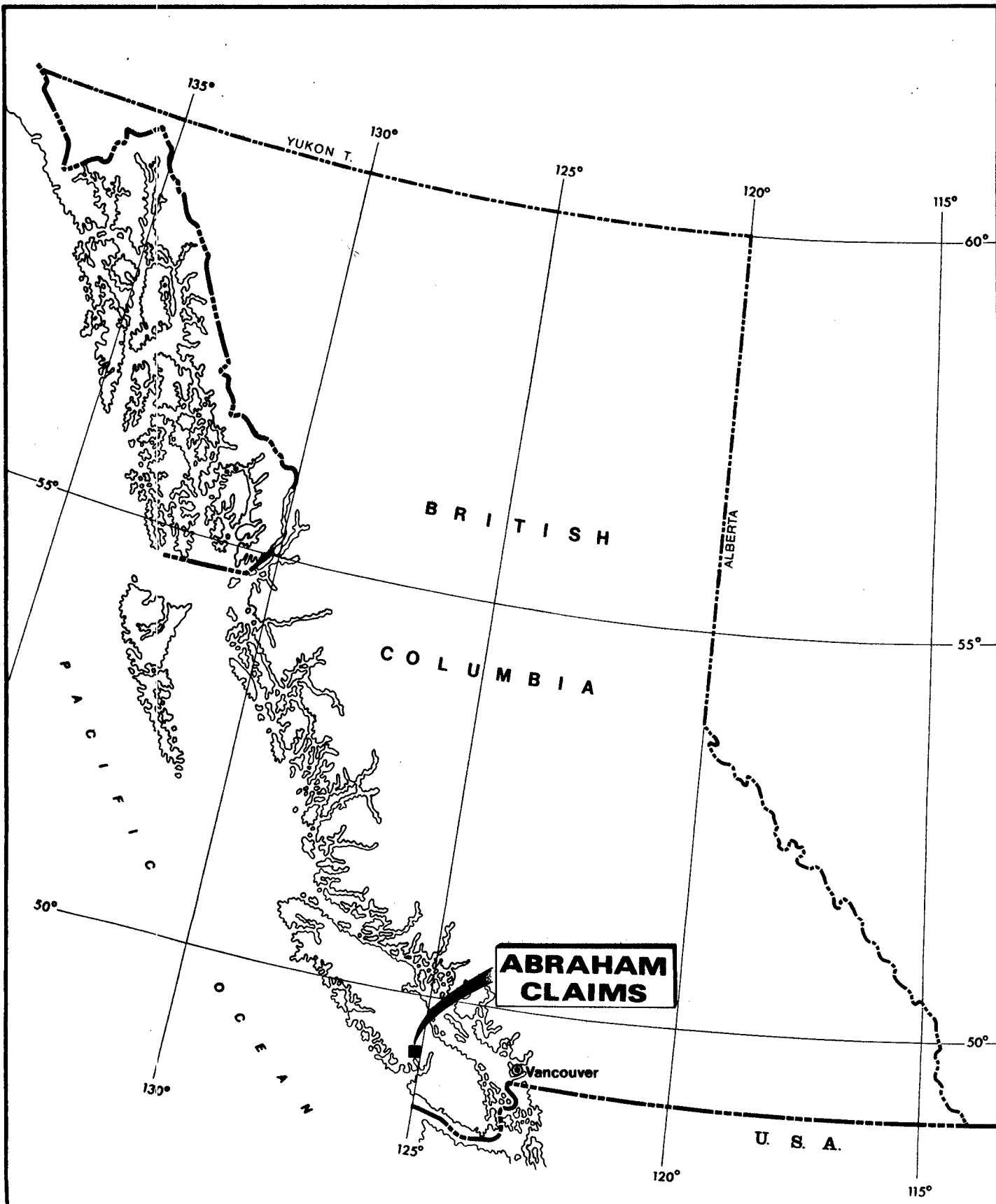
The claims are in the Alberni Mining Division, at NTS 92F/6W. It is centered at 49°18' north latitude and 125°20' west longitude (see Figure 1).

Road distances to Port Alberni and Ucluelet are 43 km and 62 km respectively.

3.2 Access

The Abraham property is accessible on its southwest border by the Port Alberni-Ucluelet Highway and on its main part by an old but usable logging road.

The claims are approximately 130 kilometres from Nanaimo, which has regularly scheduled B.C. Ferry service to Vancouver.



**ABRAHAM
CLAIMS**

ABRAHAM PROPERTY

**ABRAHAM CLAIMS
LOCATION MAP**

ALBERNI M.D., B.C.

92F/6W

V. CUKOR, P. Eng. - NVC ENGINEERING Ltd. - VANCOUVER, B.C.

DATE: June 1984

SCALE: 0  100 Miles

FIG. 1

3.3 Claims

The Abraham property consists of eight contiguous 2-post claims, with record numbers and anniversary dates as follows:

| <u>Claim</u> | <u>Record No.</u> | <u>Anniversary Date</u> |
|--------------|-------------------|-------------------------|
| Abraham 1 | 1916 | November 24, 1984 |
| Abraham 2 | 1917 | November 24, 1984 |
| Abraham 3 | 1918 | November 24, 1984 |
| Abraham 4 | 1919 | November 24, 1984 |
| Abraham 5 | 1920 | November 24, 1984 |
| Abraham 6 | 1921 | November 24, 1984 |
| Abraham 7 | 1922 | November 24, 1984 |
| Abraham 8 | 1923 | November 24, 1984 |

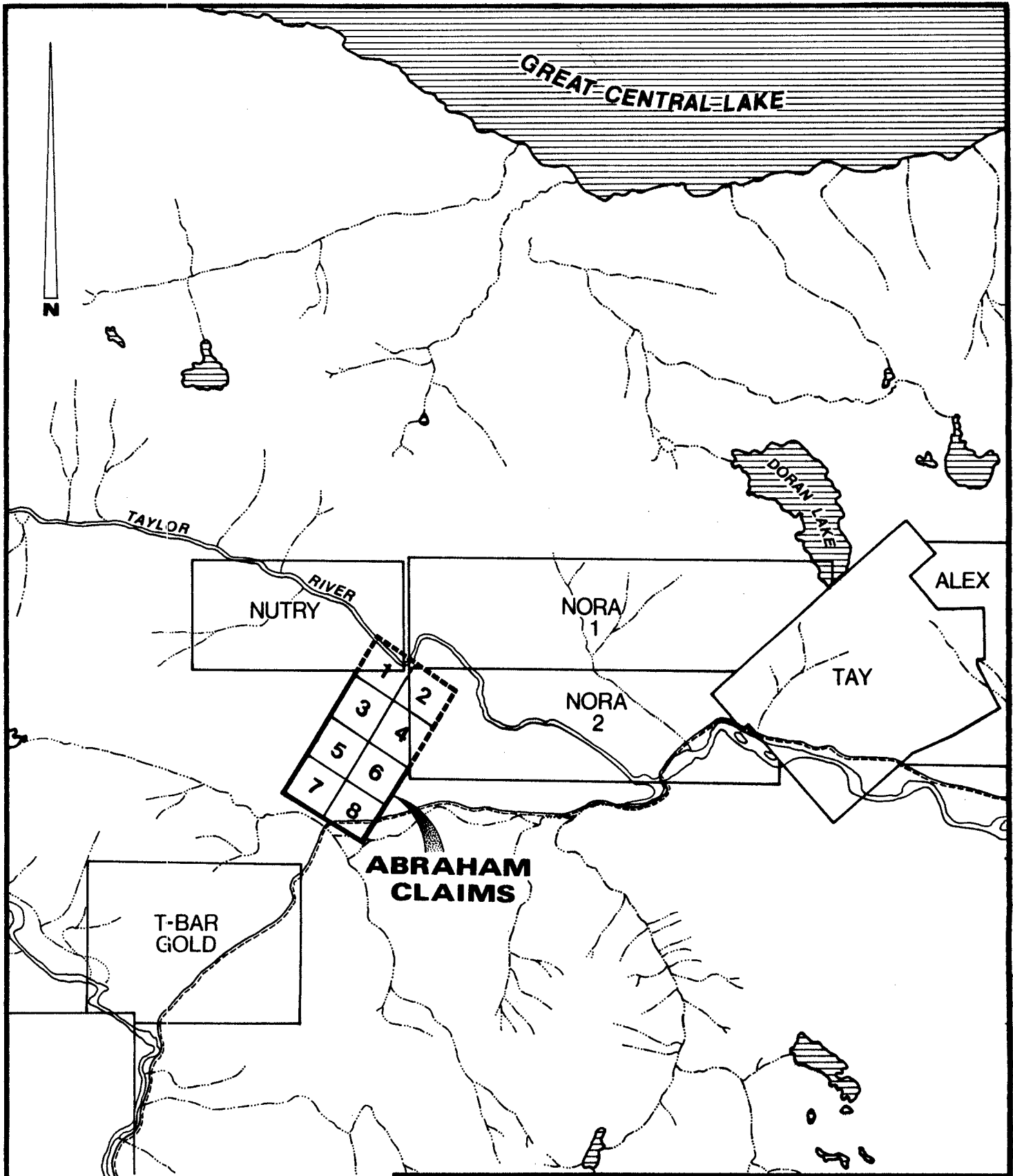
The claims were located by F. Milakovich.

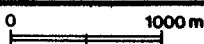
3.4 Topography and Climate

The property is in an area characterized by fairly steep slopes punctuated by cliffs. Altitudes range between 120 metres and 500 metres above sea level. The lower northeast part of the claims has been logged off while the summit of the hill and the southwest slope are covered by prime timber, with only moderate underbrush.

The area has a coastal climate, with high atmospheric precipitation and moderate temperatures.

Good quality timber is available on the southwest slope or the top of the hill that the claims cover. Water is available from either Taylor River or Sutton Creek year-round or from several intermittent streams during the spring runoff.



| | | |
|---|--|--------|
| ABRAHAM PROPERTY | | |
| ABRAHAM CLAIMS CLAIM MAP | | |
| ALBERNI M.D., B.C. | | 92F/6W |
| V. CUKOR, P. Eng. - NVC ENGINEERING Ltd. - VANCOUVER, B.C. | | |
| DATE: June 1984 | SCALE: 0  1000m | FIG. 2 |

4. GROUND MAGNETIC SURVEY

4.1 Field Procedure

Before the ground magnetometer could be run on the Abraham Claims, a grid had to be established. The grid consists of a 700 metre long baseline, running down the centre of the claims, along the claimline. Tie lines were cut to either side of the baseline. As well, the roads on the property were surveyed. Total grid length was 5.7 km and road length 1.3 km, for a total of 7.0 km of magnetometer survey. Readings were taken at 50 metre intervals and lines were spaced 100 metres apart.

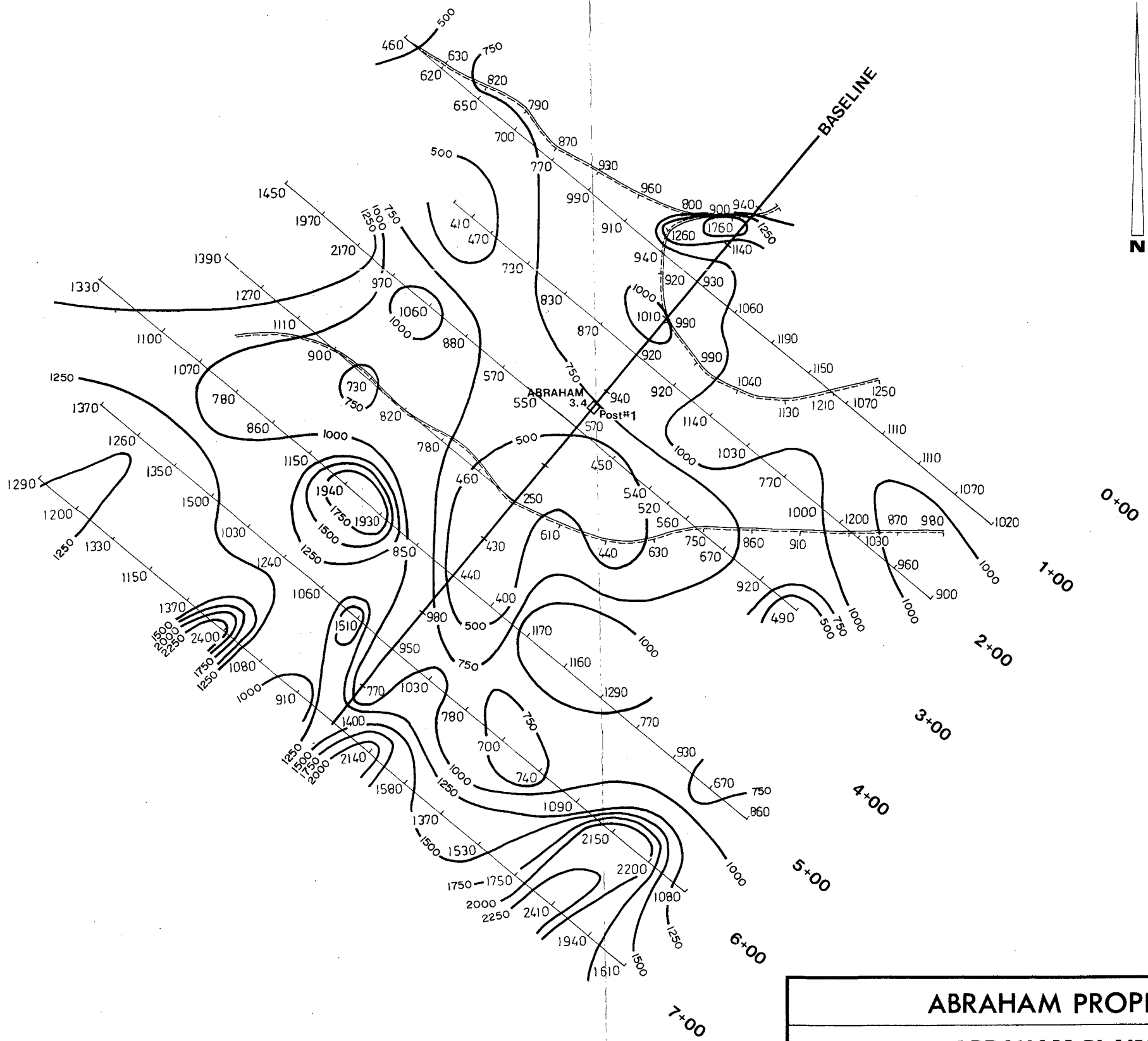
The instrument used was a Geometrics Unimag Proton Magnetometer, Model G-836 with a sensitivity of 10 gammas; the operator was D. Cukor, Geologist and experienced magnetometer operator. Checkpoints for diurnal corrections were established by initially surveying the baseline using the two station loop method for maximum control over random magnetic variations. After correcting the readings, each station on the baseline was considered a base station for a corresponding crossline. During the survey, each crossline was tied to the base station at the start and completion of the loop.

4.2 Data Presentation

The instrument measures the Total Magnetic Field. After diurnal corrections were made all results were reduced by 55,000 gammas so 56,000 gammas reads as 1,000 gammas. These reduced values were then plotted on the 1:5,000 plan, and contoured at 250 gamma intervals (see Figure 3).

4.3 Discussion of Results

The reduced values range from a low of 250 gammas to a high of 2,400 gammas, for a total relief of 2,150 gammas. Identified in the magnetic structure at approximately 5+00S, BL is what appears to be a dipole



All readings in gammas.

| | | | |
|--|-----------|--------|----------|
| ABRAHAM PROPERTY | | | |
| ABRAHAM CLAIMS | | | |
| GROUND MAGNETIC SURVEY PLAN | | | |
| ALBERNI M.D., B.C. | | | 92F/6W |
| V.CUKOR, P.Eng. - NVC ENGINEERING Ltd. - VANCOUVER, B.C. | | | |
| DATE | June 1984 | SCALE: | |
| | | FIG. | 3 |

dipping east. However, to be able to interpret the results gained from this survey, detailed geological mapping will have to be performed, after which, these results will have to be re-evaluated.

Respectfully submitted,

D. Cukor, B.Sc.
NVC Engineering Ltd.

June 14, 1984

APPENDIX

LIST OF EMPLOYEES AND COSTS INCURRED DURING THE ABRAHAM CLAIMS GROUND MAGNETIC SURVEY

FIELD WORK

| | | |
|----------------------|----------------|-----------|
| Damir Cukor, B.Sc. | 3 days @ \$175 | \$ 525.00 |
| Neil Whitmore, B.Sc. | 3 days @ \$150 | 450.00 |
| Frank Milakovich | 3 days @ \$100 | 300.00 |
| Motel | | 115.75 |
| Gas | | 55.38 |
| Ferry | | 60.00 |
| Restaurant | | 120.50 |
| Truck rental | 3 days @ \$50 | 150.00 |

REPORT

| | | |
|--|-----------------|-------------|
| Damir Cukor (data interpretation and report writing) | 3 days @ \$175 | 525.00 |
| Drafting | 15 hours @ \$20 | 300.00 |
| Typing, printing, binding | | 158.00 |
| | | <hr/> |
| | TOTAL | \$2,739.33 |
| | | <hr/> <hr/> |

16 claims @ \$100 per year for 3 years

8 x 100 x 3 = \$2,400

June, 1984

D. Cukor, B.Sc.
NVC Engineering Ltd.

CERTIFICATE

I, DAMIR CUKOR, of 2830 West 37th Avenue, Vancouver, British Columbia, state that:

1. I graduated from the University of British Columbia in 1984 as a Bachelor of Science in Geology;
2. I am employed by NVC Engineering Ltd.;
3. I was involved in various geological, geochemical and geophysical programs for the past eight summer seasons;
4. I supervised and/or executed the work as documented in this report.

June, 1984

D. Cukor, B.Sc.
NVC Engineering Ltd.