3596

GEOPHYSICAL REPORT

on the

DON 1 - 36 MINERAL CLAIMS

near Princeton B.C.

Similkameen Mining Division

Lat. 49°25'N, Long. 120°40'W
N.T.S. 92H/7

on behalf of

DARKHAWK MINES LTD. (NPL)

by R. Wolfe, P.Eng.

April 3, 1972.

(Field Work between)
(March 11 and March 30, 1972.)

TABLE OF CONTENTS

FIGURES

APPENDICES

SUMMARY AND CONCLUSIONS

Darkhawk Mines Ltd. owns 36 claims on Bromley Creek near Princeton, B.C. A V.L.F. E.M. Survey about 12 linemiles was only partially completed due to severe snow conditions. Six anomalous areas are outlined from the filtered E.M. data. The anomalies are sufficiently high to warrant detailed follow up.

INTRODUCTION

The following report is a record of the work done to date on the DON group of claims, owned by Darkhawk Mines Ltd. To the writer's knowledge no previous work has been done.

LOCATION AND ACCESS

The property is located on Bromley Creek about 6 miles southwest of Princeton, B.C. and about 10 miles northwest of Copper Mountain Latitude $49^{o}25'$N., Longitude $120^{o}40'$W., N.T.S. reference 92H/7.

Access is excellent by road from Princeton, B.C. South along Highway 3 a distance of about 3 miles and then westerly by dirt road, a distance of about 5 miles to the claims.

CLAIMS AND OWNERSHIP

The property consists of 36 mineral Claims owned by Darkhawk Mines Ltd. (N.P.L.).

Claim	Record No.	Record Date
DON 1 - 36	32105 - 32140	April 2, 1971

One year of assessment work was applied to all claims.

GRID LAYOUT

A baseline, 9,500 feet long was cut, chained, and marked every hundred feet in a North-South direction. Sidelines were cut in a similar fashion perpendicular to the baseline, spaced 500 feet apart. Since the snow conditions were extremely bad, the lines were concentrated in the northern and southern sections of the claims (see fig. 4).

ELECTROMAGNETIC FIELD PROCEDURE

Instrument: RONKA E.M. 16

Transmitter Station: N.P.G. Jim Creek, Washington

Frequency 17.6 Khz.

The operator proceeded in an easterly direction on the lines and faced east while taking readings. Both in-phase and quadrature readings were taken at 100 foot intervals. Notes were also kept on slope direction and pitch and any topographic or physiographic features of interest such as swamps, creeks, etc.

Preprinted notepaper, specifically designed for the V.L.F. E.M. method were used to facilitate notes and minimize error.

E.M. DATA PRESENTATION

The in-phase and quadrature readings are shown in profile form on fig. 5 for lines 5 - 30 south and on fig. 6 for lines 60 - 95 south.

The in-phase results were then filtered using the Fraser Filter method. For details see the Geophysical Report on the DEB Group, Allison Lake area by R. Wolfe, P.Eng. dated March 12, 1972. The anomalous results (over +10°) are plotted on fig. 6.

DISCUSSION OF E.M. RESULTS

In-phase readings ranged from +30 to -35 degrees. Topographic change is partly responsible for some of these extreme readings. On fig. 7, the anomalous filtered readings are plotted but only those anomalies not caused by topographic effects are contoured. Six anomalous areas (A - F) are outlined:

A) at 5S, 15W, extends southward to line 10S and possibly to line 15S, open to the north (high of +19).

B) at 10S, 13W, a sharp high of +27 which can be considered extremely anomalous.

C) at lines 20S and 25S, 25W, highs of up to +27, but part of this anomaly could be caused by the 8 degree slope.

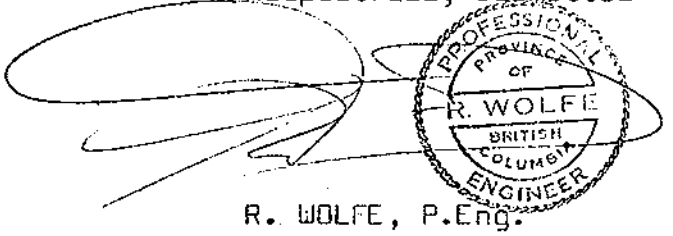
D) at 20S, 25S, and 30S, (1 -10E), highs up to +20 open to the south.

E) at 75S, 30W, a high of +22, open to the south.

F) at 85S and 90S (4W - 8W, 16W - 20W), highs up to +23, open to the south and possibly open to the north.

In general, interpretation is difficult due to frequent changes in elevation, causing a rather erratic pattern. The six outlined anomalies are quite strong and should be investigated by other means such as geochemistry in those areas where outcrop is not visible.

Respectfully Submitted



R. WOLFE, P.Eng.

April 3, 1972.

APPENDIX I

CERTIFICATES

NAME: ROBERT WOLFE, P.ENG.

EDUCATION: B.Sc. 1963, Physics and Geology, University of Alberta.
1964, An extra year (Geology) University of B.C.

EXPERIENCE: Engaged in the profession since 1963 while employed by: Kerr Addison Gold Mines, Kennco (Western) Explorations Ltd., Meridian Syndicate, Orequest Syndicate.
Consulting since 1968.

NAME: VICTOR MUKANS, Geophysical Operator

EXPERIENCE: Over 20 years, all phases of preliminary geophysical and geochemical exploration. Has worked for the author and associates for the past six years.

NAME: DOUGLAS SYMONDS

EDUCATION: Will receive his B.Sc. degree this year in Geology.

EXPERIENCE: Has worked for the author and associates for the past 6 years in all phases of mining exploration.

NAME: DAMON BERRYMAN, Linecutter

EXPERIENCE: Has worked for the author and associates for the past two years.

APPENDIX II

PERSONNEL AND DATES WORKED

Victor Mukans	MARCH 11 - APRIL 2	23 DAYS
Damon Berryman	MARCH 11 - MARCH 19	9 DAYS
Doug Symonds	MARCH 31, APRIL 1	2 DAYS
Robert Wolfe, P.Eng. (Supervision & Report Preparation)	MARCH 10, 11, 25, 30, 31 APRIL 1, 2, 4, 10 (½), 11 (½), 12	10 DAYS

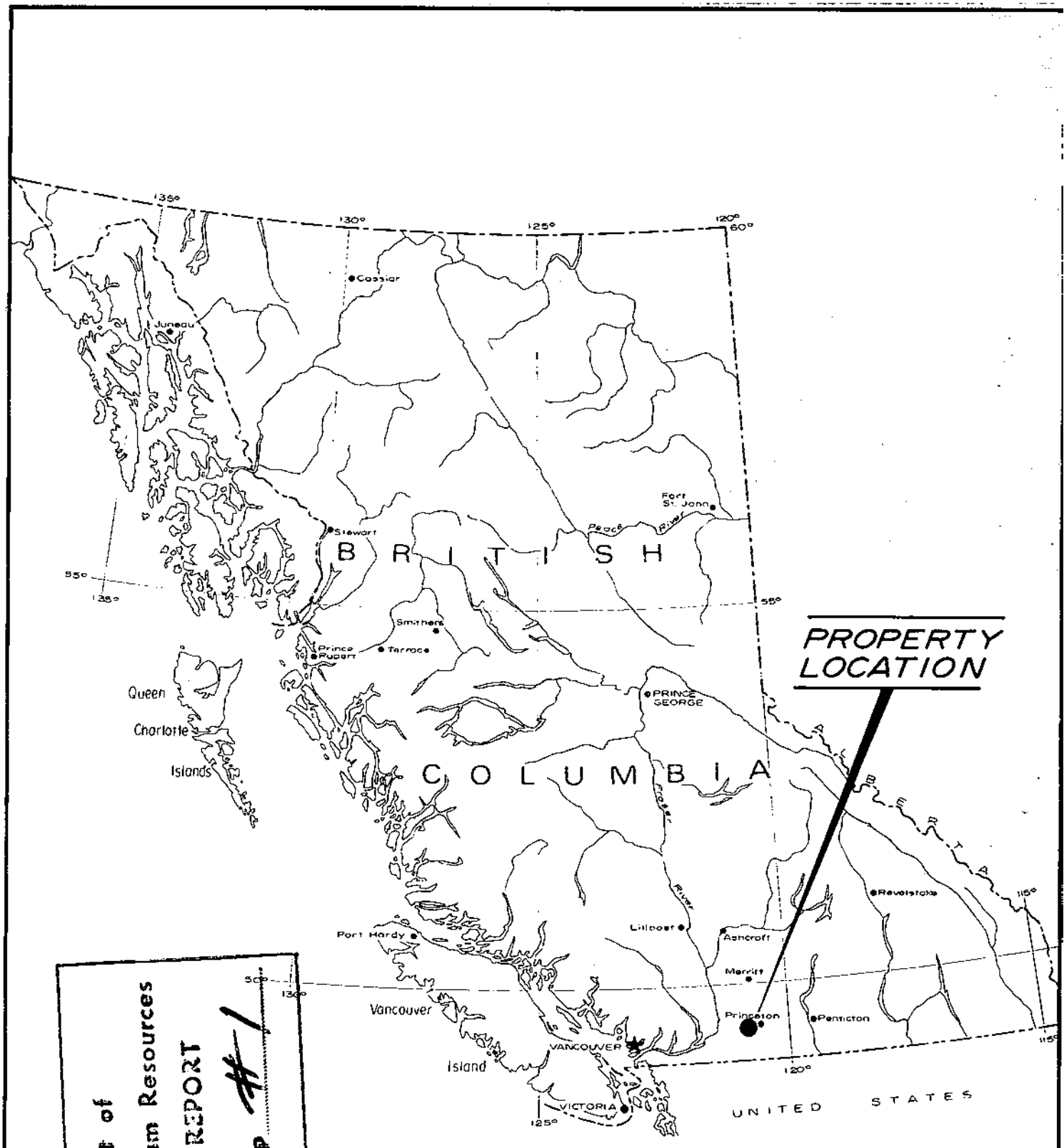


FIG. 1

DARKHAWK MINES LIMITED

DON CLAIMS

LOCATION MAP

SIMILKAMEEN M.D.

SCALE

1" = 136 Miles

R. Wolfe, P.Eng. April 3, 1972

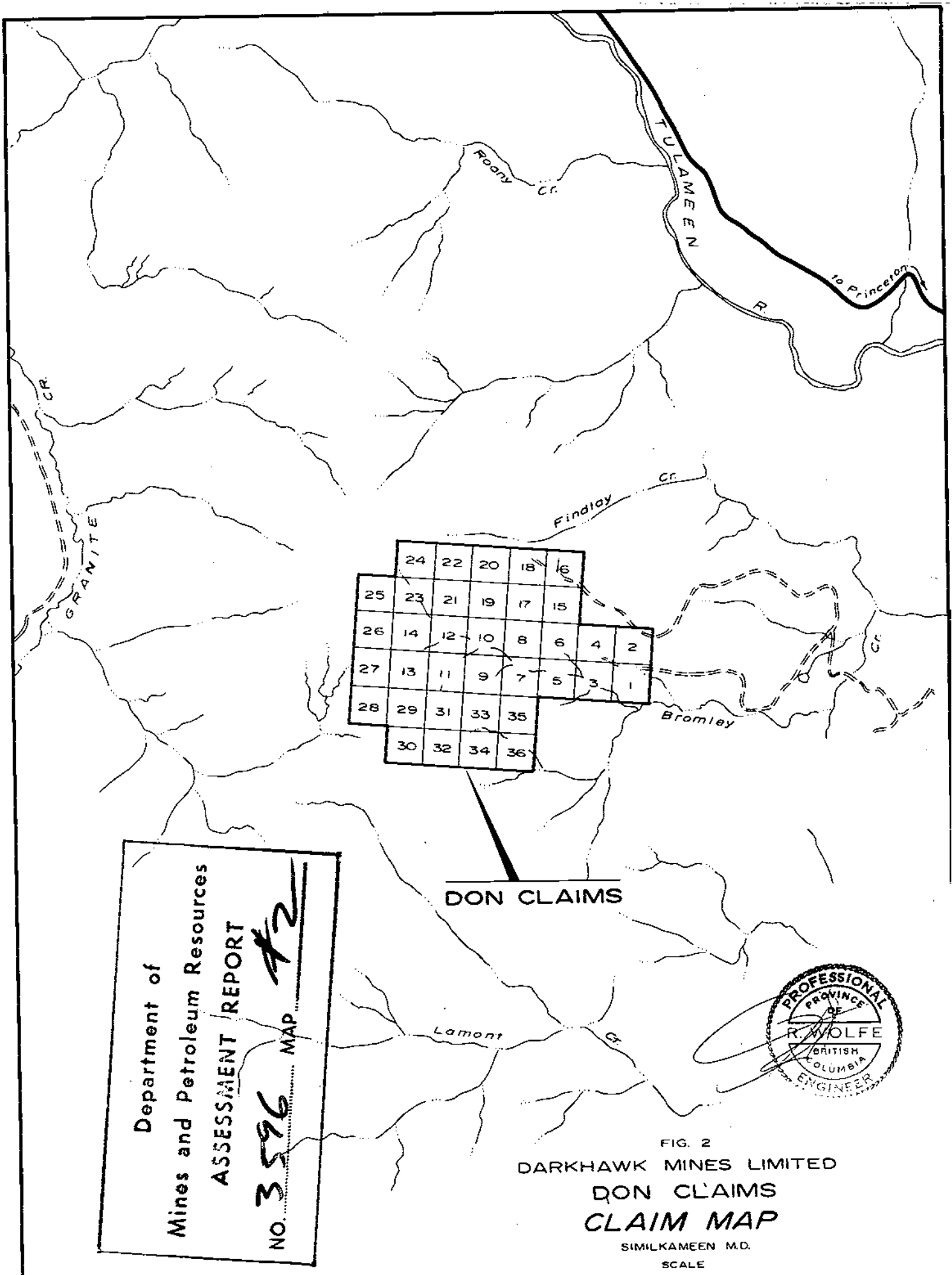


FIG. 2

DARKHAWK MINES LIMITED

DON CLAIMS

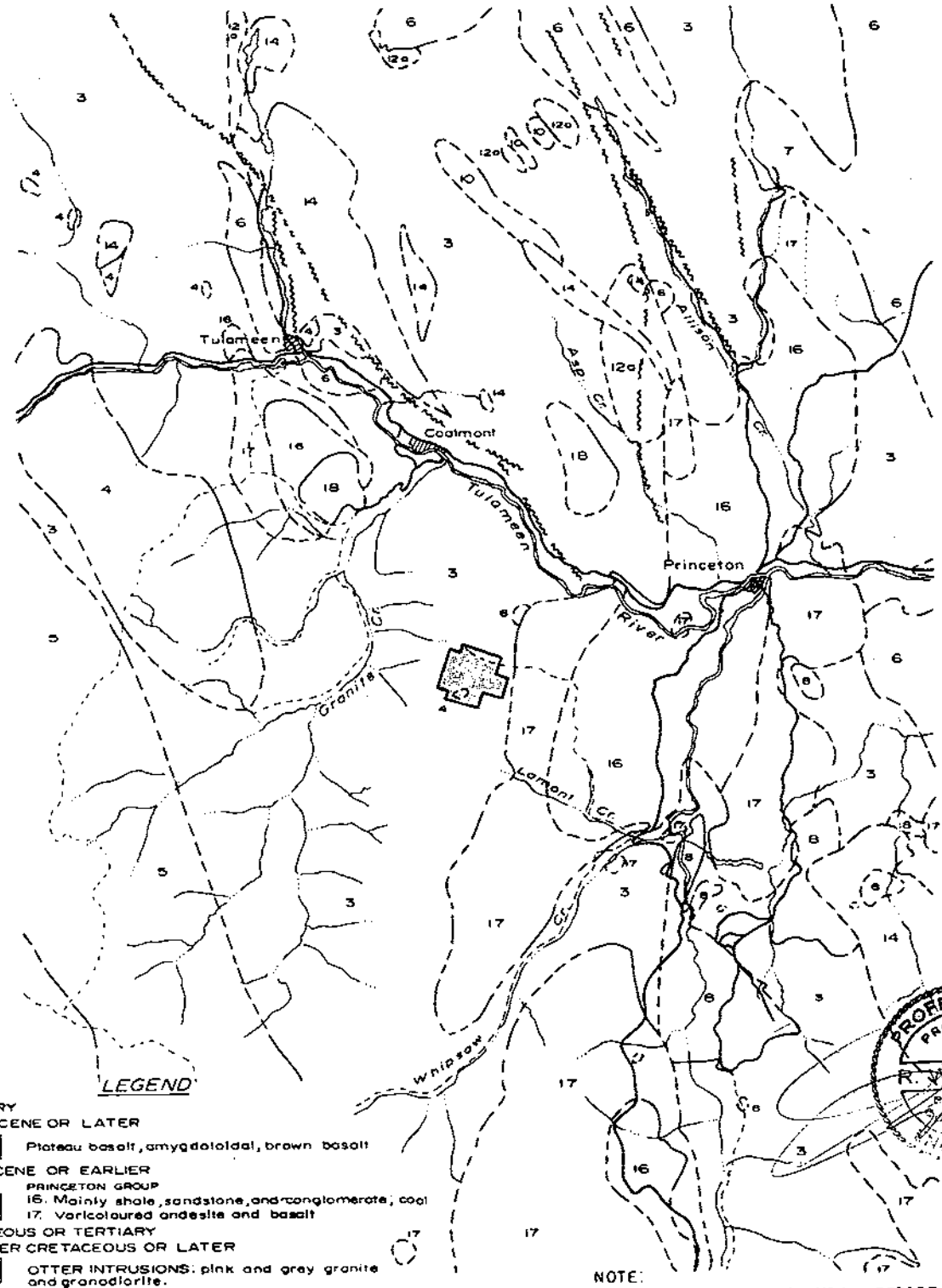
CLAIM MAP

SIMILKAMEEN M.D.

SCALE

FEET 5000 0 5000 FEET

R. Wolfe, P Eng. April 3, 1972



LEGEND

TERTIARY

MIOCENE OR LATER

18 — Plateau basalt, amygdaloidal, brown basalt

MIOCENE OR EARLIER

PRINCETON GROUP

16 | 17 — 16. Mainly shale, sandstone, and conglomerate; coal
17. Varicoloured andesite and basalt

CRETACEOUS OR TERTIARY

UPPER CRETACEOUS OR LATER

14 — OTTER INTRUSIONS: pink and grey granite and granodiorite.

CRETACEOUS

LOWER CRETACEOUS

KINGSVALE GROUP

12a — Mainly volcanic breccia

SPENCE BRIDGE GROUP

10 — Hard, reddish andesite and basalt

JURASSIC OR LATER

8 — COPPER MOUNTAIN INTRUSIONS: syenogabbro, augite diorite, pegmatite.

5,6,7 — COAST INTRUSIONS: 5. grey, slightly gneissic granodiorite 6. mainly reddish, coarse-grained. 7. light coloured granodiorite, quartz diorite and gabbro.

4 — Peridotite, pyroxenite, gabbro

TRIASSIC

UPPER TRIASSIC

NICOLA GROUP

3 — Varicoloured lava, argillite, tuff, limestone; chlorite and sericite schist

NOTE:
TO ACCOMPANY GEOPHYSICAL REPORT BY R. WOLFE P. ENG. DATED APRIL 3, 1972

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
R. WOLFE

FIG. 3

DARKHAWK MINES LIMITED

DON CLAIMS

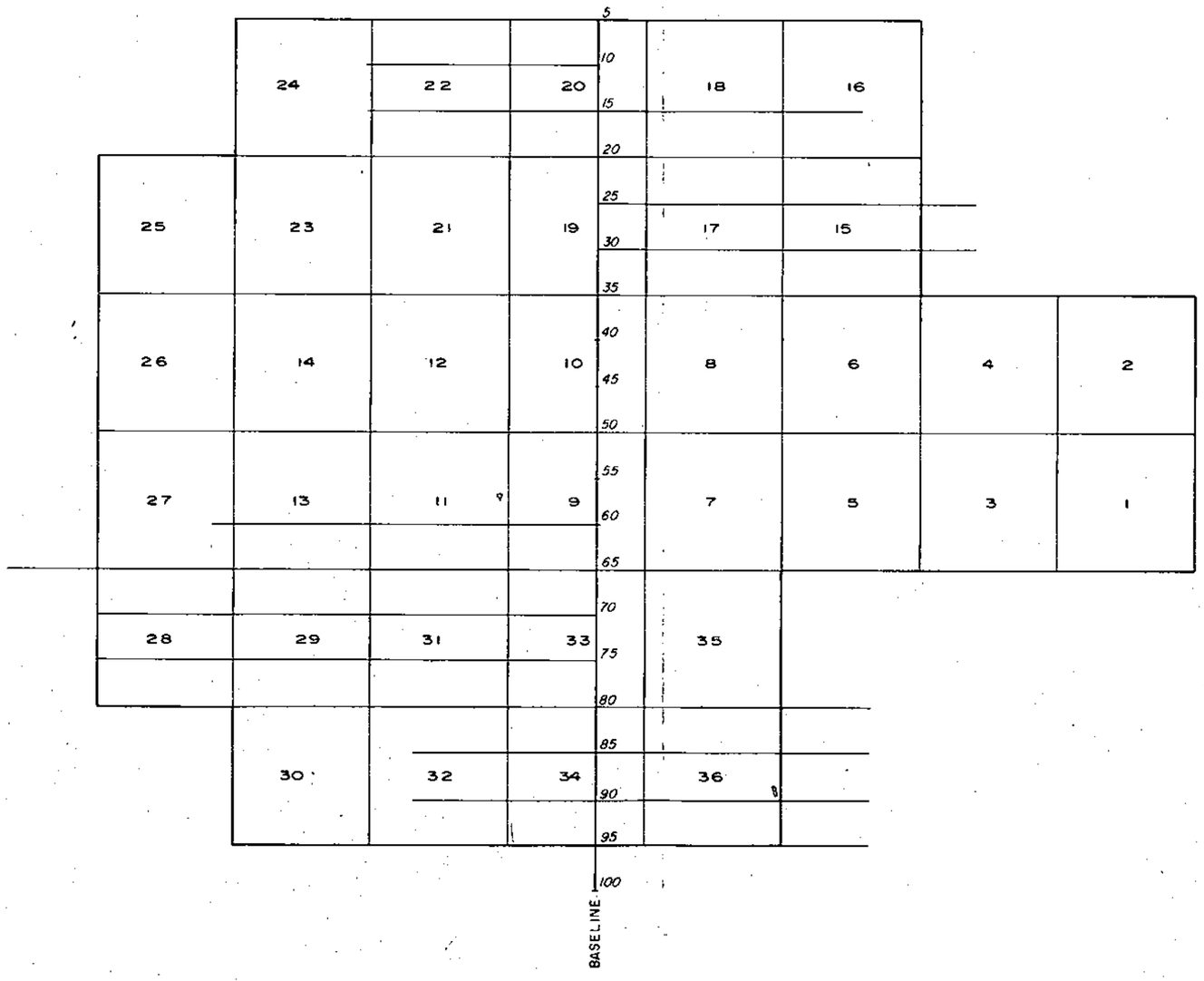
REGIONAL GEOLOGY

SIMILKAMEEN M.D.

SCALE

Miles 4 — 0 — 4 Miles

R. Wolfe, P. Eng. April 3, 1972



PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA R. WOLFE

FIG. 4

DARKHAWK MINES LIMITED

DON CLAIMS

GRID LINES

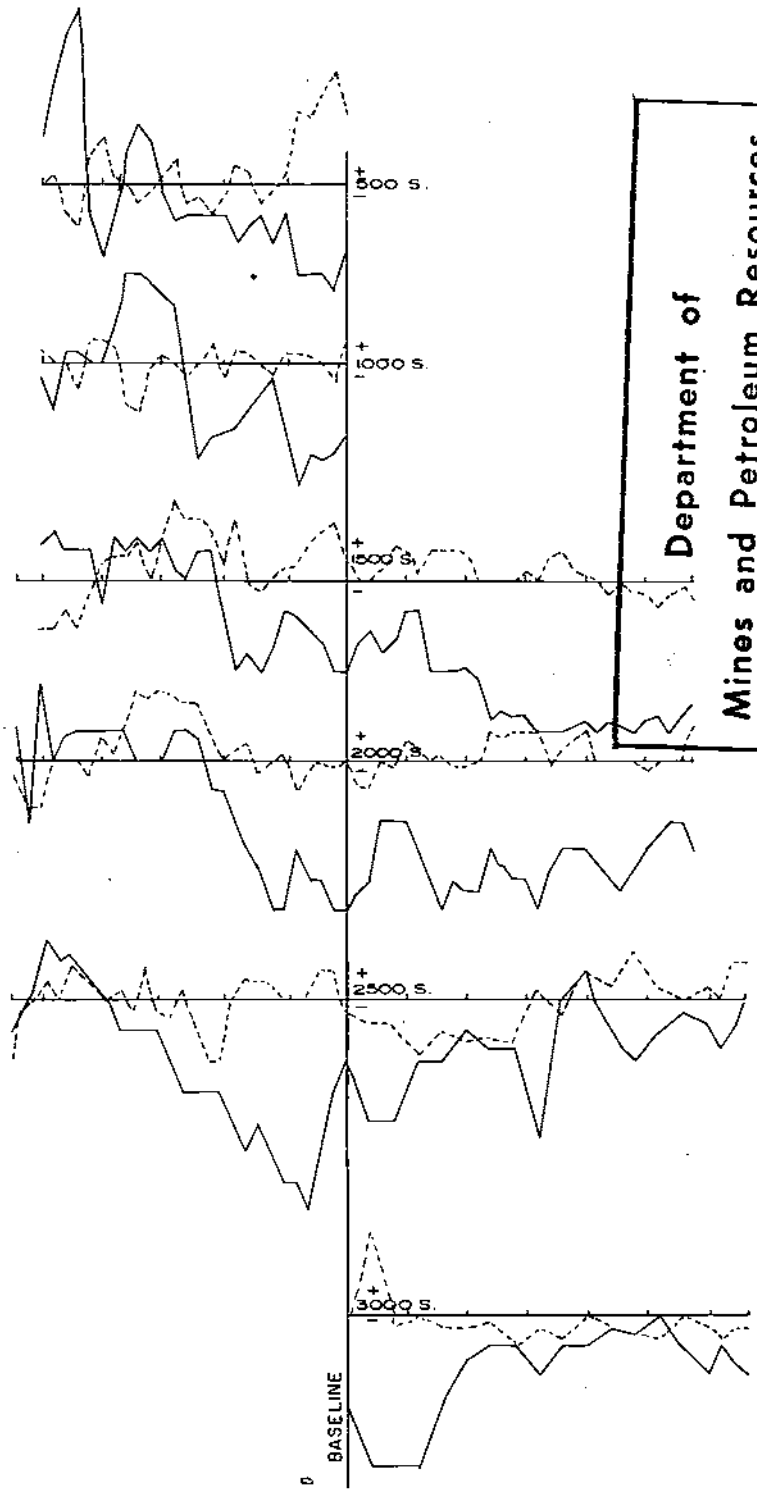
SIMILKAMEEN M.D.

SCALE

FT. 1500 0 1500 FT.

R. Wolfe, P. Eng. April 3/72

TO ACCOMPANY GEOPHYSICAL REPORT BY R. WOLFE P. ENG. DATED APRIL 3, 1972



LEGEND

——— IN PHASE

- - - - - - QUADRATURE

FIG. 5

DARKHAWK MINES LIMITED

DON CLAIMS

V.L.F. E.M. PROFILES

LINES 5-30 S.

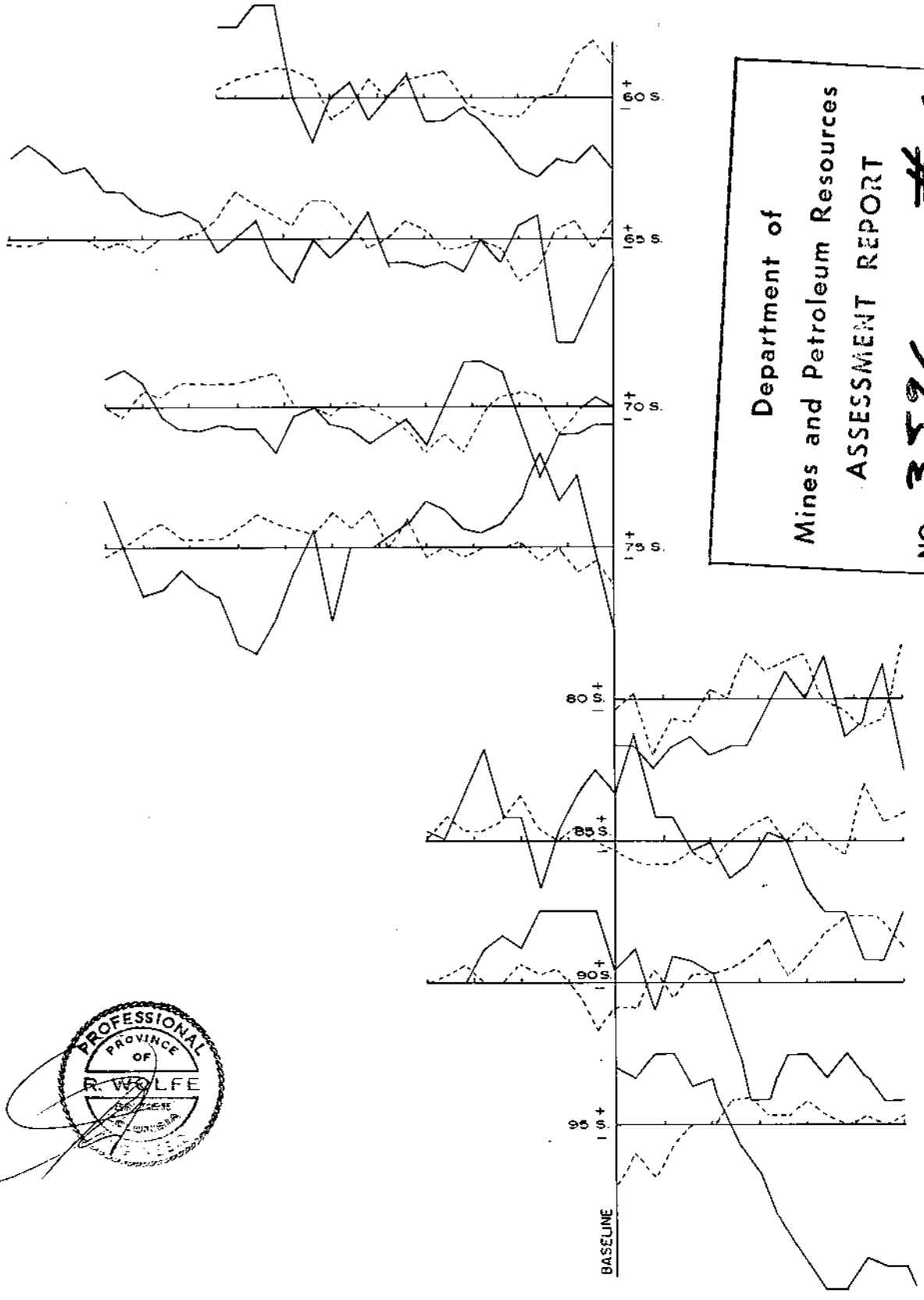
SIMILKAMEEN M.D.

VERT. SCALE: 1" = 32°

HORIZ. SCALE: 1" = 1600'

R. Wolfe, P. Eng. April 3/72

To accompany geophysical report by R. Wolfe, P Eng. dated April 3, 1972.



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
R. WOLFE

LEGEND

——— IN PHASE

- - - - - - QUADRATURE

FIG. 6

DARKHAWK MINES LIMITED

DON CLAIMS

V.L.F. E.M. PROFILES

LINES 60-95 S.

SIMILKAMEEN M.D.

VERT. SCALE: 1" = 32°

HORIZ. SCALE: 1" = 1600'

R. Wolfe, P. Eng. April 3/72

To accompany geophysical report by R. Wolfe, P.Eng. dated April 3, 1972.

APPENDIX III

COST BREAKDOWN

A. Electromagnetic Survey

Wages:	Mukans	23	days	@	$40	$920
	Berryman	9	days	@	25	225
	Symonds	2	days	@	40	80
						$1,225
	Payroll benefits, administration 20%					245
						$1,470

Field Expenses

Room and Board	$570	
Truck rental	591	
Skidoo rental	250	
Double track Skidoo with driver	120	
Snowshoe rental	50	
RONKA E. M. 16 rental	230	
Gas etc.	30	
	$1,841	$1,841

Engineering

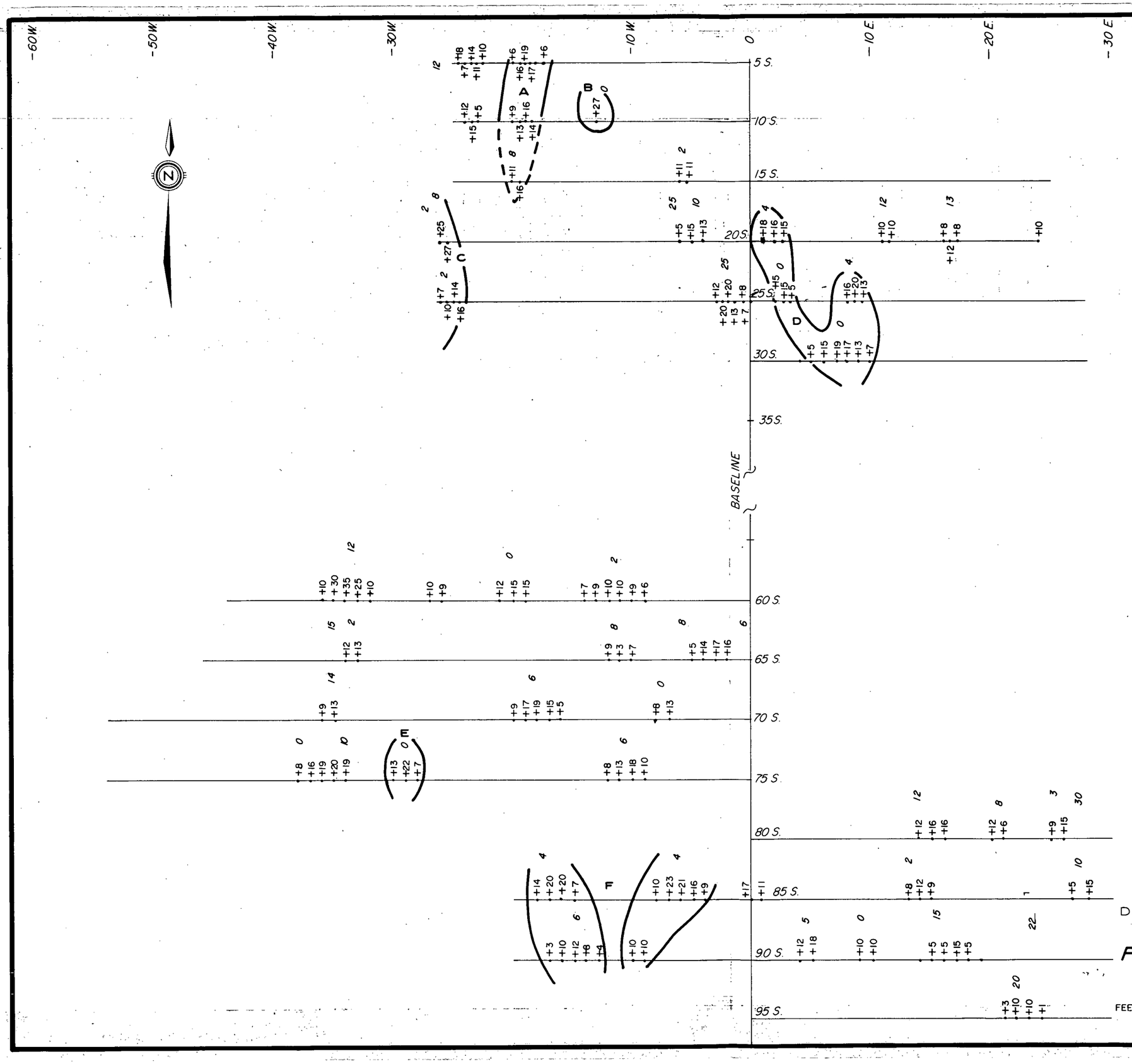
Supervision and Report preparation						
R. Wolfe, P.Eng.	10	days	@	$100		1,000
Drafting, Typing, Printing						150
						$4,461

Declared before me at the City of Vancouver, in the Province of British Columbia, this 13 day of April 1972, A.D.

Joan Turner

A Commissioner for taking Affidavits within British Columbia
A Notary Public in and for the Province of British Columbia

Sub-mining Recorder



LEGEND

+17 FILTERED E.M. READING

10 SLOPE IN DEGREES

A ANOMALOUS AREA

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
R. WOLFE

To accompany Geophysical Report by
R. Wolfe, P. Eng. dated April 3, 1972

FIG. 7

DARKHAWK MINES LIMITED

DON CLAIMS

FILTERED EM DATA

SIMILKAMEEN M.D.

SCALE

FEET 800 0 800 FEET

R. Wolfe, P Eng. April 3/72