

'79-#72-#7180

ASSESSMENT REPORT
ON THE RESULTS OF
A RECONNAISSANCE VLF ELECTROMAGNETIC
AND RADIOMETRIC SURVEY

ON THE
DAVE 1155[3] AND "A" 1156 [3] CLAIMS
CHERRY CREEK AREA
KAMLOOPS MINING DIVISION
KAMLOOPS, BRITISH COLUMBIA
N. Lat. $50^{\circ}38'$ W. Long. $120^{\circ}33'$

FDR

DORADO RESOURCES LTD.
Suite 800, 543 Granville Street
543 Granville Street
vancouver, British Columbia

BY

DONALD W. TULLY, P. Eng.

March 18, 1977

West Vancouver, B.C.

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SUITE 102 - 2222 BELLEVUE AVENUE
WEST VANCOUVER, BRITISH COLUMBIA
V7V 1C7

7180

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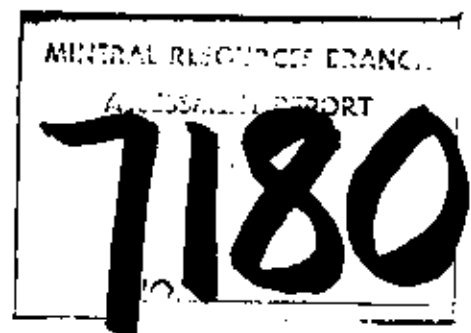
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**DAVE - "A"
CLAIM**

**FIGURE I.
LOCATION MAP
MARCH 16, 1979**

Area covered by
Gulf Islands

INTRODUCTION

This assessment report was prepared pursuant to a request by Dorado Resources Ltd., Suite 800, 543 Granville Street, Vancouver, British Columbia.

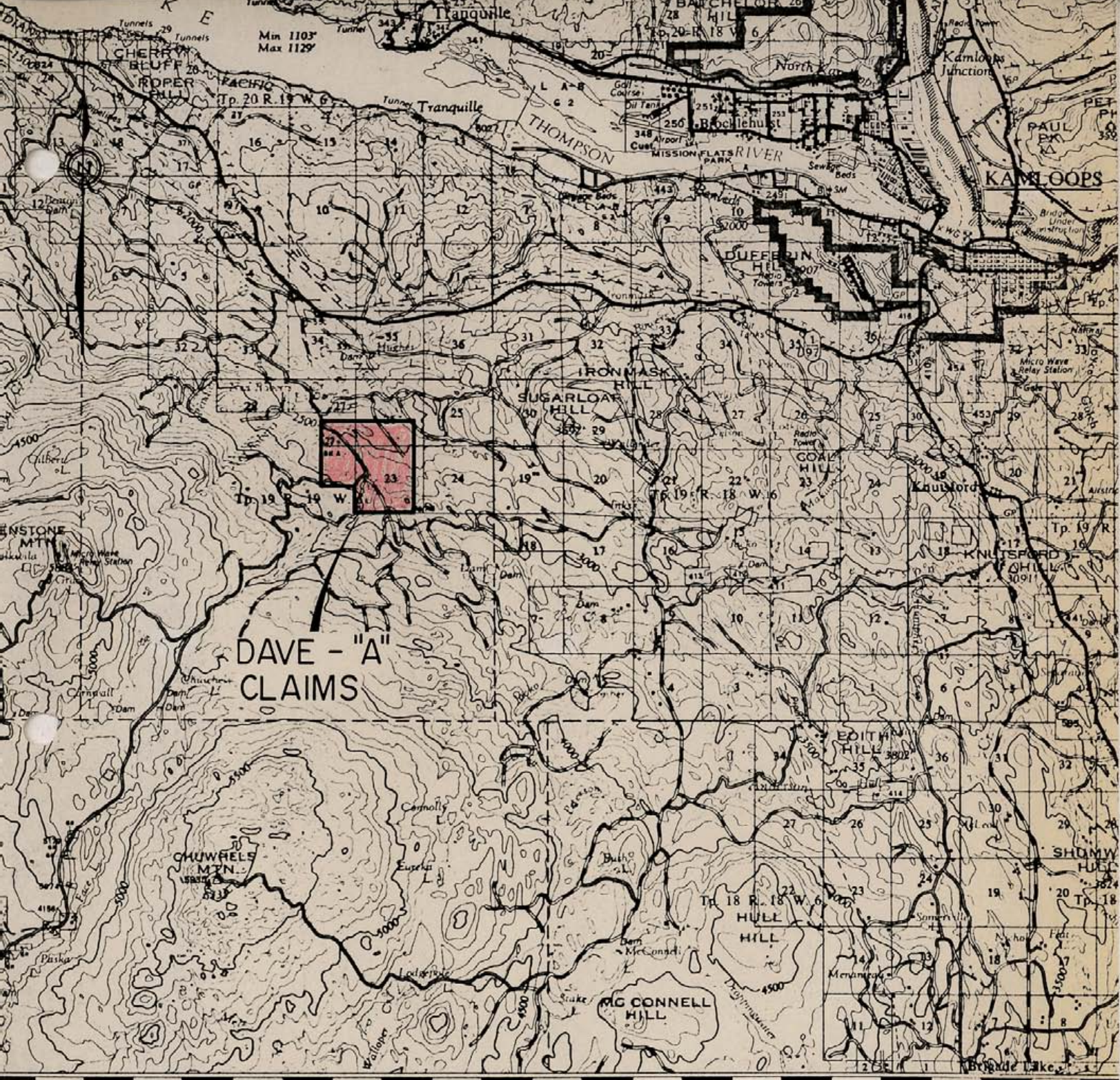
The purpose of this report is to present and summarize the results of a combined VLF electromagnetic and radiometric reconnaissance survey done over the DAVE and "A" claims. The field work period was February 25, 1979 through March 4, 1979 inclusive. The writer was assisted in performing the field work by Mr. Rick Kendall, P.O. Box 135, Savona, British Columbia.

SUMMARY AND CONCLUSIONS

The DAVE and "A" claims comprise twenty-four contiguous claim units.

Nicola volcanics and the overlying Kamloops Group of rocks cover the property. Rock structures, where observed, trending generally north to northwestward.

Previous development work on this ground indicated several magnetic anomalies as reported in British Columbia Assessment Report 3658. One of the magnetically low zones on the map accompanying that assessment report appears to be in the general area of an apparent conductor zone found during the reconnaissance electromagnetic survey shown on Figure 5 in this report. Detailed work is suggested in the anomaly area and a check with another geophysical method is recommended.



30'

KAMLOOPS LAKE

BRITISH COLUMBIA

KAMLOOPS DIVISION OF YALE LAND DISTRICT

Scale 1:125,000 or approximately 2 Miles to 1 Inch.

Miles 1 1/4 0 2 4 6 8 10 Miles

Scale of Kilometres

1 0 2 4 6 8 10 12 14 16

Magnetic Declination approximately 23°10' East at centre of map, 1968.
Decreasing approximately 3'10" annually.

FIGURE 2

TOPOGRAPHIC
& LAND
DIVISION MAP

MARCH 16, 1969

Donald W. Tully

No scintillometer readings of significance were found during the radiometric survey which was done in conjunction with the electromagnetic work.

The total cost of the field work was \$ 3,093.84.

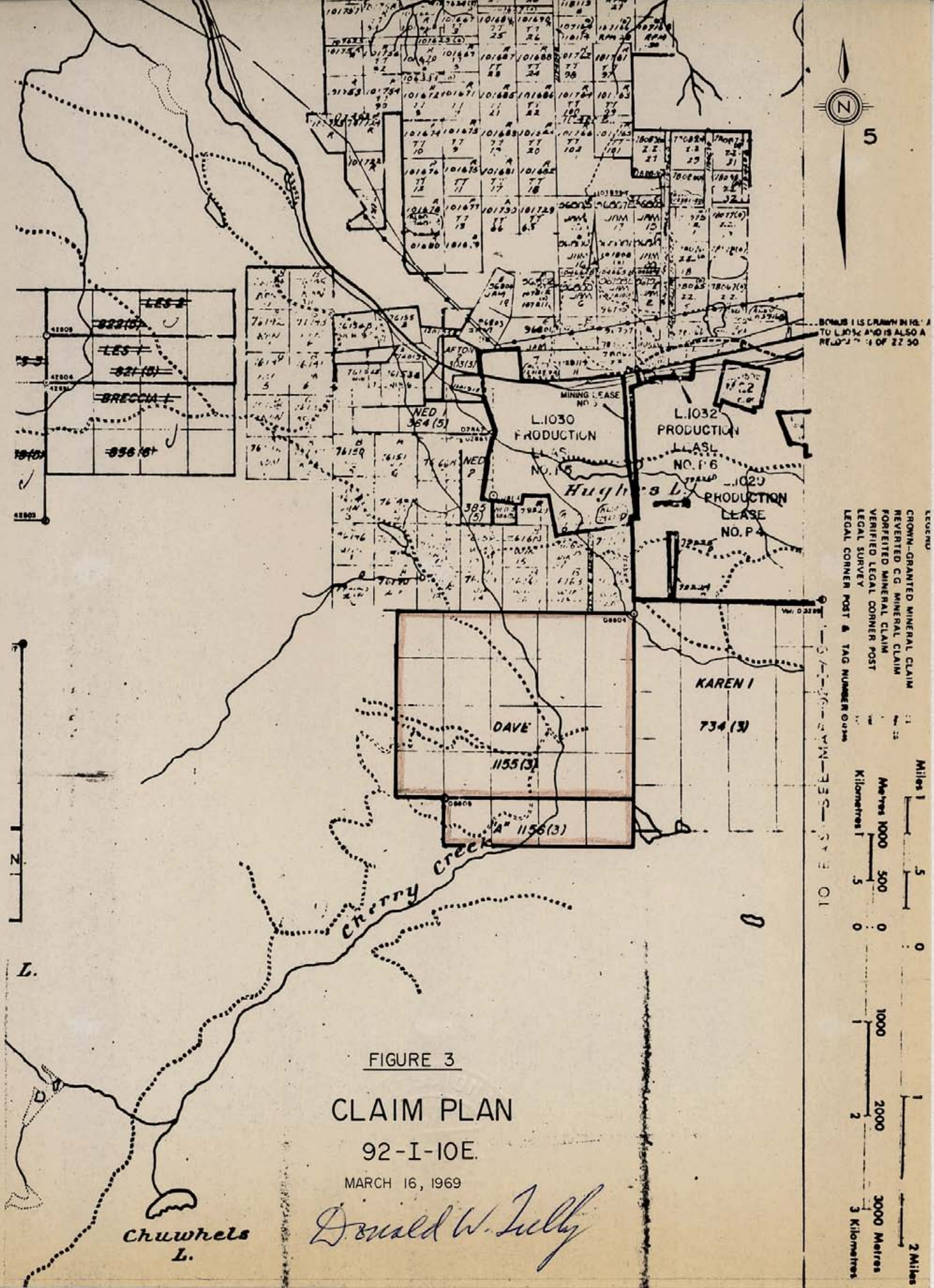
PROPERTY - LOCATION, ACCESS, TOPOGRAPHY

The property comprises two mineral claims totaling twenty-four units. The DAVE claim contains 20 units and the "A" claim has 4 units. These claims are located astride Cherry Creek about one mile south of the AFTON mine orebody and some 15 kilometres west of Kamloops, British Columbia [Figure 2].

Access is from the hamlet of Cherry Creek on the Trans-Canada Highway southward along the Dominic Lake gravel road. The distance to the north boundary of the DAVE claim is about 5 kilometres.

Elevations vary over the property from a low of about 800 metres in the northeast part of the property to a high of some 1,100 metres above sea-level in the southwestern portion. Cherry Creek traverses the claims in a northerly drainage direction and affords ample water supply for any immediate industrial need. The water rights on Cherry Creek are understood to be held by several individuals.

Sand, gravel and loam cover the claim area. A small amount of agricultural land lies on Section 23 near the north boundary of the DAVE claim. Otherwise the claim area is covered with second growth fir, spruce and underbrush.



BONUS 1 IS CRAWN IN RE-TO L.1032 AND IS ALSO A RE-TO L.1032

- LEGEND
- CROWN-GRANTED MINERAL CLAIM
 - FORFEITED C.G. MINERAL CLAIM
 - FORFEITED MINERAL CLAIM
 - VERIFIED LEGAL CORNER POST
 - LEGAL SURVEY
 - LEGAL CORNER POST & TAG NUMBER 0-348



FIGURE 3

CLAIM PLAN

92-I-10E.

MARCH 16, 1969

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Chuwhels L.

CLAIMS

The DAVE and "A" claims are situated in the Kamloops Mining Division as well as the Kamloops Land District in Township 19, Range 19 West. The DAVE claim covers a substantial amount of Section 23, the south portion of Section 26 and part of Broken Section 27A. The claims are recorded as follows:

<u>Claim Name</u>	<u>Record Number</u>	<u>Number of Units</u>	<u>Record Date</u>	<u>Recorded Holder</u>
DAVE	1155[3]	20	March 6, 1978	Dorado Resources Ltd.
"A"	1156[3]	4	March 6, 1978	do.

The claims are shown on British Columbia Ministry of Mines and Petroleum Resources mineral claim plan M92-I-10E [Figure 3].

HISTORY AND PREVIOUS DEVELOPMENT

The claim area was staked in 1971 and occupied by the BILL, GAL, CROW and SKELLY claim groups. Most of these claims were held under option by Granite Mountain Mines Ltd. [NPL] and Exeter Mines Ltd. [NPL] until 1975. Later the KEV, MAUREEN and JIM claim groups covered this ground but were subsequently lapsed. This ground was recently staked by Mr. Uno Leis.

Previous development on this ground was recorded with the B.C. Ministry of Mines and Petroleum Resources as assessment work. It was performed for Granite Mountain Mines and Exeter Mines. A magnetometer survey was done by W. Meyer and Associates in early 1972 over most of the present claim area. The survey was done along flagged lines some 130 metres apart.

Anomalous magnetic patterns were found trending in a northwesterly direction more or less parallel to the trend of the Cherry Creek valley depression. In March and April of 1972, McPhar Geophysics Limited did an Induced Polarization survey over the northeast portion of the BILL and GAL claims. McPhar located several areas of response.

Several of the magnetic and induced potential anomalies were tested by percussion drill holes by Granite Mountain Mines in the summer of 1972. According to personal communication from Mr. W. Meyer, P.Eng., who was consultant to Granite Mountain on this drill test, some eight percussion drill holes were done totalling in the order of 2,500 feet of drilling on the anomalous areas. According to Mr. Meyer the assay results from this drill test were inconclusive. According to the record, this program of drill test work was not filed for assessment credit.

In the past the Kamloops area has been known as a geological environment for numerous small deposits of copper-pyrite in and adjacent to the Iron Mask Batholith. This activity dates back prior to the turn of this century. Many of these deposits were operated when metal prices were strong. The record shows small tonnages of good grade copper with some gold content was produced from few deposits in this area.

Important new production of copper has recently resulted from the discovery of substantial copper ore in late 1971 by Afton Mines in this area.

REFERENCES

Annual Reports of the Minister of Mines, British Columbia

N.T.S. Topographic Map 92-I/10E

B.C. Ministry of Mines and Petroleum Resources mineral
claim map 92-I/10E

Geological Survey of Canada Memoir 249

" " " " Map 886A

" " " " Map 887A

" " " " Aeromagnetic Map 5216G

Report on a Magnetometer Survey of the BILL and GAL claims
for Granite Mountain Mines Ltd. [NPL] and Exeter
Mines Ltd. [NPL] by W. Meyer and Associates Ltd.,
dated May 25, 1972 - B.C. Assessment Report No.
3658.

Report on an Induced Polarization Survey over part of the
BILL and GAL claims by McPhar Geophysics Limited
dated April 17, 1972 - B.C. Assessment Report No.
3659.

Personal communication with W. Meyer, P.Eng., on March 13,
1978.

The Afton Discovery - Chester Miller,
Western Miner, February 1973.

The Afton Mines Project - Pamela Bottomley,
Western Miner, January 1978.

GEOLOGICAL SETTING

A preliminary examination of the geology over the DAVE and "A" claim area indicates this property is underlain by Nicola volcanics and the later Kamloops Group of similar-type volcanic rocks. Diorite-monzonite phases seen in the outcrops of volcanics may be intrusive and probably related to the late interaction phases of the nearby Sugarloaf and Cherry Creek intrusions of the Iron Mask Batholithic mass [Figure 4].

A tentative table of formations is as follows:

<u>Formation</u>	<u>Age</u>
Kamloops - Volcanics	Tertiary
Intrusives [?] - Diorite - Monzonite	Jurassic and probably of much later time frame
Nicola - Volcanics	Triassic

Structurally, the surface features observed in the rock outcrops show a northwest trend with steep dips, generally southwest. Shearing and schistose structures were noted especially along the east side of the valley depression occupied by Cherry Creek. This feature is generally coincident with the northwest trend of the magnetic anomaly pattern shown in Figure 5 and is not an uncommon manifestation of the Nicola volcanic environment.

Of interest is the geology of the Afton deposit which is located some two kilometres north of the DAVE claim. This deposit occurs at the western end of the Iron Mask Batholith in a highly altered coarse-grained phase of granodiorite and attendant metamorphosed phases of microdiorite and micromonzonite associated with the

Sugarloaf and Cherry Creek intrusions of later age. The copper mineralization is associated with these later intrusives as veins and disseminations in shear zone patterns trending northeast and northwest as well as north-south.

MINERALIZATION AND ASSAYS

An examination of G.S.C. aeromagnetic map 5216g shows the general north-northwest trend of the basic geologic structures underlying the claims.

All the available information suggests no economic mineralization is known at the present time in the DAVE and "A" claim area. It is not known if geochemical soil sampling work has been done in the claim area by the previous claim holders since no such information has been filed with the B.C. Ministry of Mines and Petroleum Resources.

Evidence of high temperature alteration in the nearby Afton orezones indicates a magnetic "low" accompanies the copper mineralization. This would indicate those areas on the DAVE and "A" claims that show anomalous areas of low magnetic intensity may have potential.

VLF ELECTROMAGNETIC SURVEY

Control

The starting point of the survey was established by locating the east and north boundaries of the DAVE claim relative to the prior location of the KAREN I claim. Os - Ow was found to be 370 metres west of the DAVE LCP and 267

metres south of the northwest CORNER CLAIM POST of KAREN I [Figure 5]. The survey control instruments used to conduct the survey were a brunton compass and a topoline metric thread chain. The VLF electromagnetic instrument used to take the readings shown on Figure 5 was a Ronka EM-16 instrument No. 89.

A base line was established along the north boundary of the DAVE claim. Start points for lines were established at 0, 2w, 4w, 6w, 8w, 10w, 12w, 14w, 16w, 18w, 20w, 22w. Due to difficulties encountered with apparent local magnetic attraction in the area of lines 14w, 16w and 18w the tie-in showed a westerly trend to parts of these lines.

The position of the "A" claim four units was established within the accuracy of the survey to be essentially overlying the prior DAVE claim [Figure 5].

Readings were taken at stations 100 metres apart along the north-south lines located generally at 200 metre intervals with the exception of a section of line 5w. All stations were marked with flagging in the field.

Results

Readings were taken at each station with the EM-16 instrument as follows:

- 1] The instrument was oriented in the direction of station NPG, JIM CREEK [Seattle], Washington by obtaining as "null" a position as possible.
- 2] The instrument was then turned 90 degrees to the left and elevated to the vertical position and the "null" position of the IN PHASE and quadrature [OUT-OF PHASE] dial readings was taken and recorded.

The results were plotted on scale 1 cm = 25 metres as shown on Figure 5 accompanying this report. A trial plot of several "crossover" reading results indicated the IN PHASE and quadrature readings at 14s and 15s on lines 4w, 5w, and 6w showed, when plotted on profile, a possible apparent conductor area configuration based on the premise of a trend of strong positive IN PHASE readings trending to strong negative IN PHASE readings confirmed by quadrature components [Figure 4].

RADIOMETRIC SURVEY

Results

Control was provided by the stations located as described during the VLF electromagnetic survey. Readings were taken at the same time and location. The instrument used was a Scintrex Scintillation Counter Model BGS-1, Serial No. 808195. All readings are given in counts per second.

The readings varied from a low of 8 counts per second to a high of 22 cps. No readings of economic interest were noted.

RECOMMENDATION

Since there is a possible correlation between a magnetic low in the same area as the apparent conductor indicated at 14s and 15s on lines 4w, 5w, and 6w, it is recommended that more detailed work be done on a grid of say one reading every 15 metres to confirm the position of this apparent conductor. It is suggested that should

the presence of a conductor be confirmed then this be checked with a variable separation horizontal loop electromagnetic method.

Respectfully submitted,



Donald W. Tully, P. Eng.

March 16, 1979

TIME - COST DISTRIBUTION

Work Period - February 25, 1979 through March 4, 1979,
inclusive

Personnel
Employed - Donald W. Tully, P.Eng.
102 - 2222 Bellevue Avenue
West Vancouver, B.C.
V7V 1C7

- Rick Kendall
P.O. Box 135
Savona, B.C.
V0K 2J0

COSTS

Labour.....	\$ 1,925.00
Transportation.....	407.27
Field supplies.....	46.54
Instrument rental.....	180.00
Accommodation and meals.....	237.47
Report and map.....	297.56
	<hr/>
Total	\$ 3,093.84
	<hr/> <hr/>

SIGNED: Donald W. Tully

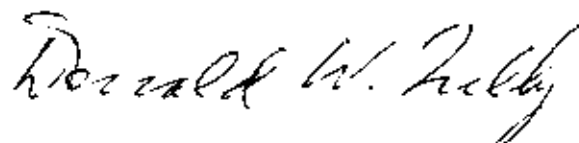
March 16, 1979

CERTIFICATE

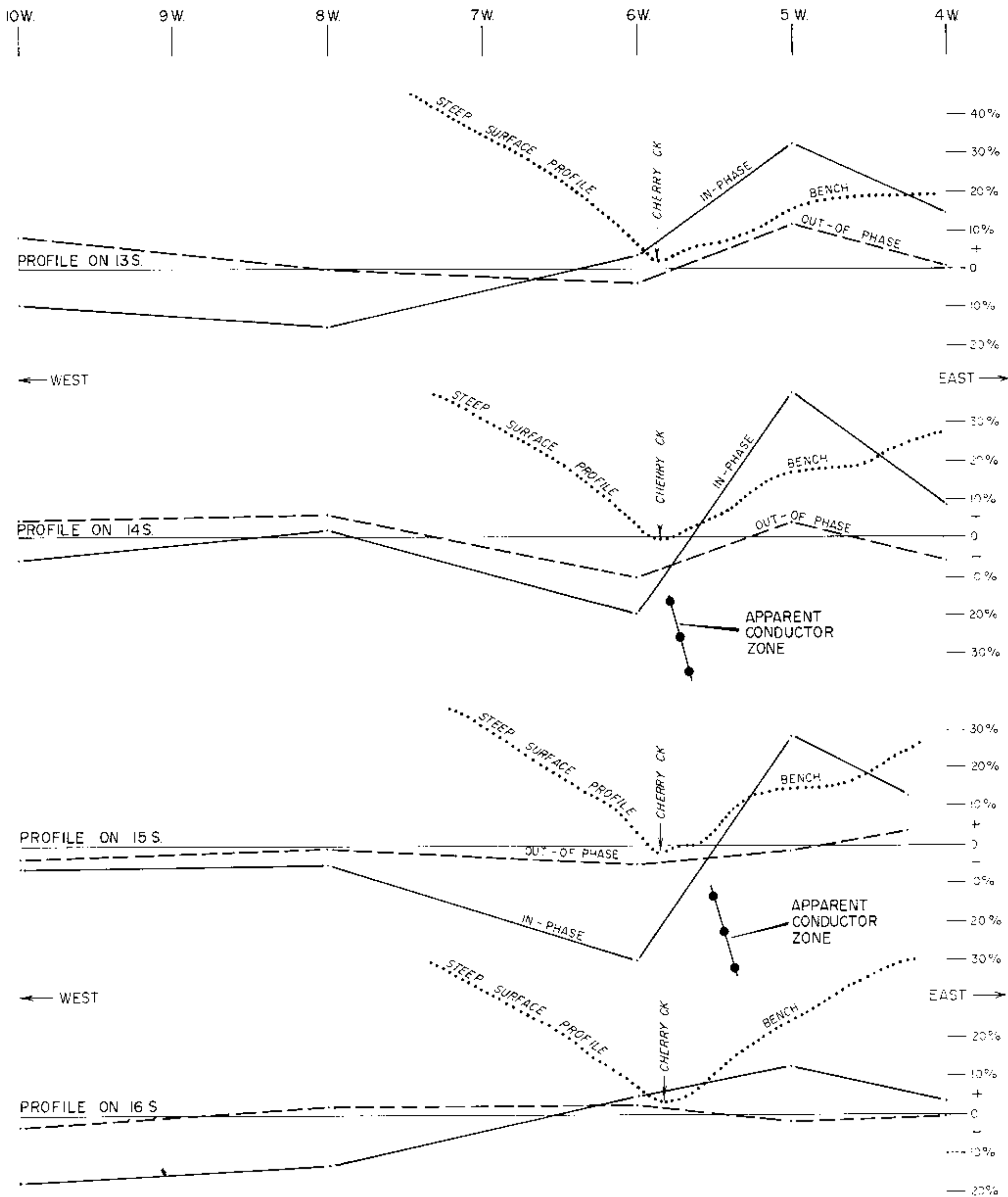
I, DONALD WILLIAM TULLY, of the City of West Vancouver, Province of British Columbia, hereby certify as follows:

1. I am a Consulting Geologist with an office at Suite 102, 2222 Bellevue Avenue, West Vancouver, B.C.
2. I am a registered Professional Engineer of the Provinces of British Columbia and Ontario.
3. I graduated with a degree of Bachelor of Science, Honours Geology, from McGill University in 1943.
4. I have practiced my profession for thirty-three years.
5. I have no direct, indirect or contingent interest in the shares of Dorado Resources Ltd., or the DAVE and "A" claims, subject of this report, nor do I intend to have any interest.
6. This report dated March 16, 1979, is based on the personal performance of the field work in the period February 25 through March 4, 1979 and from information gathered from available maps and reports.

DATED at West Vancouver, Province of British Columbia, this 16th day of March, 1979.



Donald W. Tully, P. Eng.
Consulting Geologist



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FIGURE 4

VERTICAL PROFILES
LOOKING NORTH

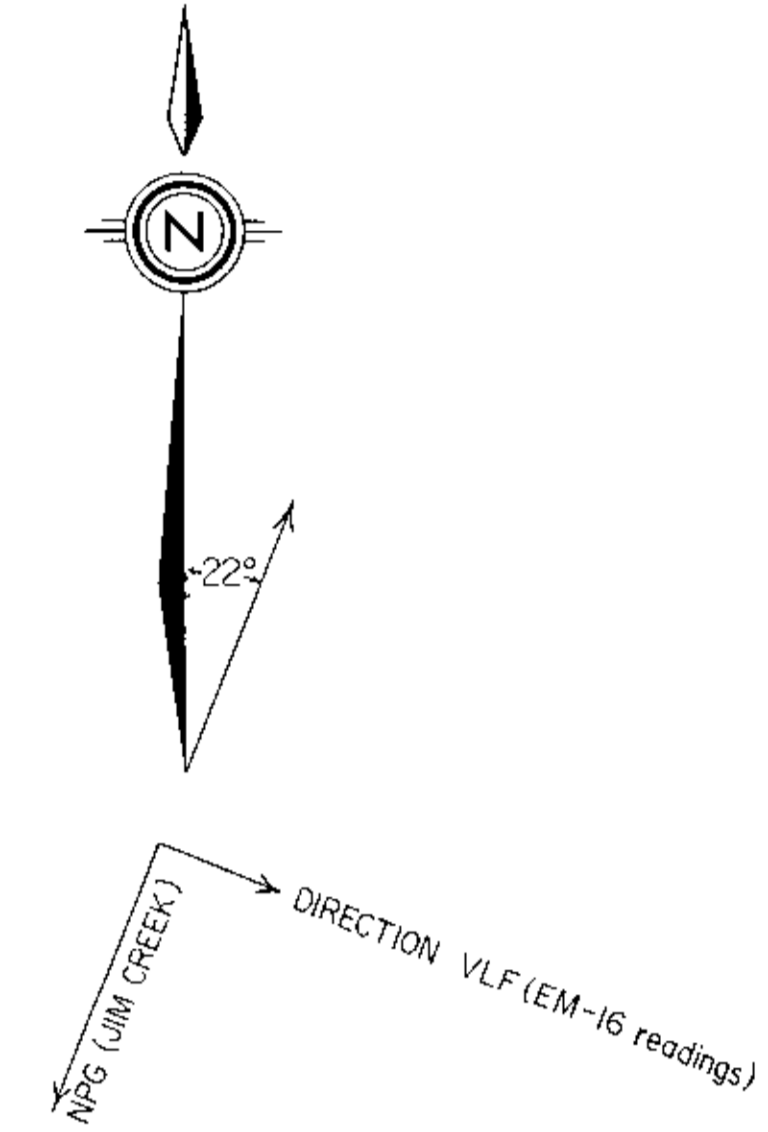
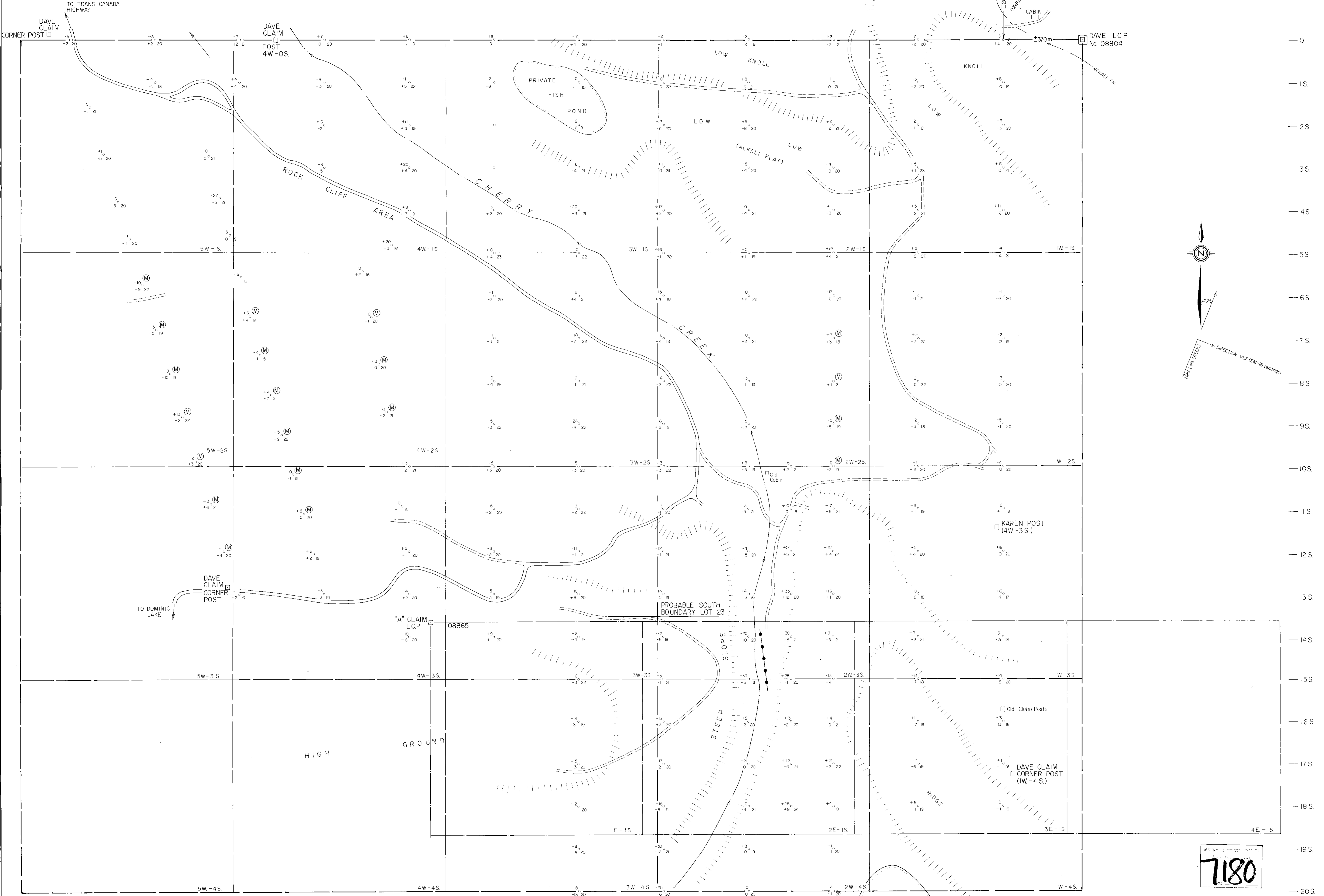
Hor. dist. equals Vert. dist.

SCALE 1 = 25

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22W 21W 20W 19W 18W 17W 16W 15W 14W 13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 3W 2W 1W 0 1E 2E 3E 4E 5E 6E



- LEGEND**
- LCP LEGAL CORNER POST
 - CLAIM POST LOCATED DURING SURVEY
 - APPROX DAVE CLAIM BOUNDARY
 - APPROX "A" CLAIM BOUNDARY
 - 15-4W CLAIM UNIT NUMBER
 - 8-0 IN-PHASE
 - +4-20 SCINT. READING (C.P.S.)
 - OUT-OF PHASE
 - APPARENT CONDUCTOR
 - == TRUCK ROAD
 - ==== LOGGING TRAIL
 - ~ CREEK
 - Higher Ground
 - Ⓜ AREA LOCAL MAG. ATT'N. NOTED

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DORADO RESOURCES LTD.

RECONNAISSANCE VLF-ELECTROMAGNETIC &
RADIOMETRIC SURVEY

**PLAN SHOWING READINGS
DAVE & "A" CLAIMS**

CHERRY CREEK-AFTON MINE AREA
KAMLOOPS MINING DIVISION

m 50 0 50 100 150 200 250 m

To accompany a report by Donald W. Tully,
P. Eng., dated March 16, 1979

Fig. 5

ALL LOCATIONS ARE WITHIN THE LIMITS OF ACCURACY OF THE SURVEY DONE BY COMPASS AND TOPOLITE CHAIN