

2370

A GEOLOGICAL, GEOCHEMICAL and
GEOPHYSICAL REPORT

on the

DOD CLAIMS

at

MURPHY LAKE, BRITISH COLUMBIA

CARIBOO MINING DIVISION

Latitude 52°00'N

Longitude 121°00'W

by

R. B. STOKES, P. Eng

I. A. C. TURNBULL
Mining Engineer

D. G. LEIGHTON
Geophysicist/Geologist

STOKES EXPLORATION MANAGEMENT CO. LTD.

for

CYPRUS EXPLORATION CORPORATION LTD.

on work completed during the period

July 28th, 1969 - September 18th, 1969

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ACCOMPANYING MAPS

- #1 1. Magnetic Profiles 'A' 1" : 500'
- ~~#2. Magnetic Profiles 'B' 1" : 500'~~
- #2 3. Geochemical Survey, Molybdenum 1" : 500'
- #3 4. Geochemical Survey, Copper 1" : 500'
- #4 5. Soil Sample Numbers and Location 1" : 500'
- #5 6. E. M. Survey - Ronka EM16 1" : 500'
- #6 7. E. M. Survey - Sharpe SE-200 1" : 500'
- #7 8. Geology 1" : 500'

Department of
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ASSESSMENT REPORT
NO. **2370** MAP.....

INTRODUCTION

Several EM anomalies were located in May, 1969, south of Murphy Lake where an airborne survey was flown by Cyprus Exploration Corporation Ltd.

The DOD Group of 48 mineral claims were staked to cover these anomalies.

SEMCO was contracted to undertake a preliminary exploration program over these claims. A team of five men, reduced to three men on August 2nd, evaluated the area during the periods July 29th to August 5th, August 13th to August 21st, and September 13th to September 18th, 1969.

The results of the field work are incorporated in this report.

SUMMARY

1. Cyprus Exploration Corporation Ltd. own the DOD Group of 48 full-sized mineral claims, which are situated 40 miles east of Williams Lake in the Cariboo Mining Division, British Columbia. For contract purposes the claim block was designated DOD-H.
2. An exploration program was carried out on the DOD-H property, by Stokes Exploration Management Co. Ltd. (SEMCO), on the ground at intervals, between July 28, 1969, and September 18, 1969.
3. The DOD claims straddle a contact between tertiary volcanics and Jurassic plutonic rocks.
4. Ground based magnetic and E.M. surveys were conducted on the property and a geochemical survey was made with generally negative results.
5. Geological mapping and prospecting has failed to show any evidence of economic mineralization.
6. Further work is not recommended for the DOD-H area.

PROPERTY

CLAIM STATUS

The DOD claim block is owned by TIMBERWOLF EXPLORATION CORPORATION which is wholly owned subsidiary of CYPRUS EXPLORATION CORP.

The 48 claims comprising the DOD group were staked by Cyprus personnel in May, 1969 and later transferred, by means of a Bill of Sale, to the Timberwolf Exploration part of the company.

Of the original 48 DOD mineral claims, only 47 were recorded, DOD #7 was abandoned because it overlapped ground in good standing.

PHYSIOGRAPHY

LOCATION AND ACCESS: The DOD claims are located three miles south from the west end of Murphy Lake, 40 miles east from Williams Lake, latitude 52°00'N - longitude 121°00'W.

Access is by a fire access road which runs parallel to and south of Murphy Lake. The fire access road branches off from the Lac La Hache - Murphy Lake road at Spout Lake.

TOPOGRAPHY AND VEGETATION: The claims cover an area of subdued rolling hills, with an elevation variation of no more than 500 feet. The ground slopes generally to the north so that the limited drainage flows into Murphy Lake.

Tree growth is primarily lodge pole (jack) pine, which is most times fairly open. Alder undergrowth is common and relatively dense in places.

HISTORY

The DOD group of claims were staked to cover a series of anomalies located during an EM/magnetic Survey flown in early May, 1969. The airborne geophysical survey was flown and compiled for Cyprus by Lockwood Survey Corporation Limited, of Toronto.

Previous work in this immediate area has been undertaken by Coranex Ltd., and Monte Cristo Mines Ltd. The latter have reportedly located tetrahedrite mineralization.

GROUND CONTROL

Geophysical and geochemical surveys were completed along cut and flagged grid lines that were established in part by SEMCO crews, and in part by Cyprus personnel.

The base line has a bearing of 0° (North), with crosslines located at 500 foot intervals, for a distance of 3000 feet to the west. The base line runs between station 0 and 5800 feet north. Lines 20N, 25N, 25N, 39N, and 49N, extend 500 feet to the east; lines 10N, and 15N extend 4200 feet east; and line 5N extends 2000 feet east of the base line.

A number of intermediate lines were later established as control for follow-up geochemical sampling.

GENERAL GEOLOGY

The area underlying the DOD-H claim group consists of tertiary volcanics in contact with plutonic rocks of Jurassic age. The contact runs in a generally north-west direction through the northeastern corner of the property. Much of the claims area is drift covered so that outcrop is confined to small scattered occurrences which are difficult to correlate.

The plutonic rocks are related to the Takomkane Batholith. The bulk of the Takomkane Batholith is composed of hornblende-biotite granodiorite, and quartz diorite. In the area of the DOD claims, however, the pluton is composed of hornblende-biotite quartz monzonite.

The tertiary volcanics consist of flat-lying basaltic flows with minor tuffs and conglomerates. They rest with angular discordance on the older plutonic rocks. Most of the rocks are dark grey, weathering to a rust brown or dark brownish-black. The lavas are generally fine-grained.

DESCRIPTION OF MAP UNITS

The geology of the DOD-H property is presented on an accompanying plan; scale 1 Inch to 500 feet. Map units on this plan include:-

1. al. Quaternary. Mixed Unconsolidated Deposits.

This map unit consists of thin glacial and post glacial deposit. In most cases the Quaternary follows the topographic form of the earlier deposits.

2. vb. Tertiary. Plateau Basalts. The tertiary

basalts consist of flows and breccias (flow top?), varying between a few feet and several tens of feet in thickness. In the area of the DOD-H claims the lavas are somewhat vesicular, fine-grained, dark grey to greenish-grey rock. They weather to a rust brown colour. The outcrop seems to be equally divided between flow and breccia material,

3. gd. Late Triassic/Early Jurassic. Hornblende quartz monzonite. The intrusive, as exposed in the

DOD-H property, consists of coarse to medium-grained grey to greenish brown rocks. In some places the rock has a pinkish colour due to the presence of K-feldspar.

DESCRIPTION OF MAP UNITS (Cont'd)

The intrusive rocks are composed of about 50% plagioclase, 20% quartz, and 20% K-feldspar. The remaining 10% is made up with the mafic minerals, hornblende and biotite.

MINERALIZATION

Minor molybdenum mineralization was located in place near station 4N9W on the western edge of a small marsh. The outcrop was subsequently blasted and trenched to expose fresh rock. No mineralization was found in the trenched outcrop, which consisted of unaltered volcanic breccia. Soil samples taken in the immediate vicinity of station 4N9W also failed to indicate anomalous quantities of either copper or molybdenum in the area.

No other copper or molybdenum mineralization was identified in outcrop in float on the DOD-H property.

GEOCHEMICAL SURVEY

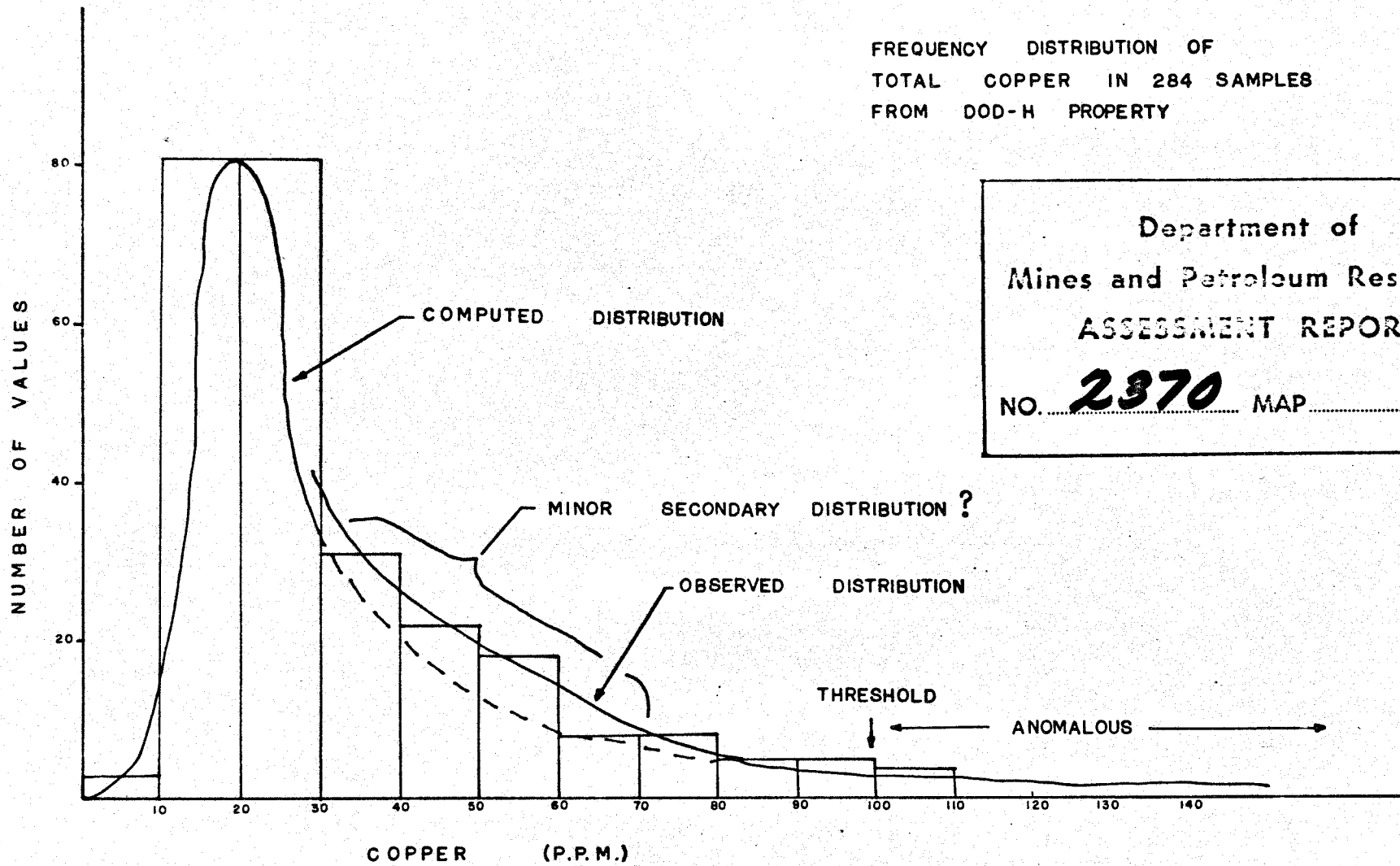
(1) INTRODUCTION: A total of 749 soil samples were collected at 100 foot intervals along the DOD-H grid lines. This sampling was designed to test for copper-molybdenum anomalies. The soil sampling program did not indicate any significant anomalies.

(2) FIELD PROCEDURE: Samples were obtained with mattocks, which were satisfactory for the soil conditions encountered. Sample material was placed in 3" x 5" water resistant kraft paper envelopes. Where possible, soil was taken from the B zone, but where this was missing, sample material was taken from the top two inches of the C soil horizon.

Specially designed sample books were used to record field data. Information recorded included:- location, soil type, vegetation, slope, sample number, and date. Sample locations were marked with appropriately numbered yellow flagging.

(3) SOIL CONDITIONS: The Cariboo District of British Columbia is characterized by light to moderate rainfall. Impeded drainage is not uncommon. This

FREQUENCY DISTRIBUTION OF
 TOTAL COPPER IN 284 SAMPLES
 FROM DOD-H PROPERTY



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 Mines and Petroleum Resources
 ASSESSMENT REPORT

NO. **2370** MAP

CYPRUS EXPLORATION CORP.

DOD-H
 GEO-CHEM HISTOGRAM

SEMCO

OCT. 1969

1202

GEOCHEMICAL SURVEY (Cont'd)

environment has produced a soil with a black surface horizon grading sharply into a pale, bluish-grey subsoil. In the better drained areas the black organic soil is replaced by a sandy or loamy material. The buff coloured B zone soil horizon, usually preferred in geochemical sampling, is generally absent.

(4) RESULTS: Geochemical results are presented on a 1 inch to 500 feet plan, accompanying this report. Threshold values were determined from a statistical evaluation of the sample assay results. The threshold value for the area was found to be 100 ppm. for copper, and 3 ppm for molybdenum (mean plus twice the standard deviation). High erratic values were omitted from estimation of threshold. See Appendix III for a description of the trace element analysis procedure used. Barringer Research Limited, of Vancouver, B.C., prepared and processed all samples.

No significant geochemical anomalies were found on the DOD-H property.

GEOPHYSICS

MAGNETIC SURVEY: A ground based magnetometer survey was completed on the DOD claim block. Magnetic measurements were made along all claim grid lines, as well as along the base line and the claim location lines.

Readings were made at 100 foot intervals along all lines. Diurnal corrections were corrected for in the usual way, that is, by looping traverses to a series of stations located along the base line. A McPhar M500 Fluxgate Magnetometer was used for this survey.

The results of the magnetic survey are presented on two, 1 inch to 500 feet plans. On Plan 'A' magnetic profiles are plotted, while on Plan 'B'; both profiles and contours, at 50 gamma intervals, are plotted.

GEOPHYSICS

E. M. SURVEYS: Two ground based E.M. surveys were made on the DOD-H property. The first was made with a Sharpe, Model SE-200 instrument, operating at 1200 c.p.s. The second survey was made using a radio frequency Ronka EM16. Neither survey detected strong anomalous electrical conductivity in the sub-surface. The minor anomalies encountered are probably due to clay conductors.

The SE-200 results should be considered the most diagnostic of the two. With this instrument it was possible to choose optimum transmitter-receiver configurations for the area. Some difficulty was encountered with the Ronka EM16 survey due to a combination of a weak r.f. signal (difficult to null), and a poor transmitter direction, relative to the traverse (grid) lines.

GEOPHYSICS

SHARPE SE-200 SURVEY FIELD PROCEDURE

The SE-200 is designed to perform either horizontal transmitter loop, or vertical loop surveys. For the DOD-H E. M. work a configuration was chosen where transmitter coil axis is aimed at the receiver operator. The receiver coil measures null tilt angles from the horizontal about an axis perpendicular to the line joining transmitter and receiver. In other words, tilt angles are taken to and from the transmitter direction. This type of survey is most sensitive to vertical conductors striking perpendicular to the line joining transmitter and receiver.

GEOPHYSICS

RONKA EM16 SURVEY FIELD PROCEDURE

The Ronka EM16 survey was carried out using Station N.P.G. for measurement of resultant field. This station transmits from Seattle, Washington, at 18.6 kHz with an output of 300 k.w.

Readings were taken at 100 foot intervals along grid lines, while facing 290° (perpendicular to N.P.G.). The in-phase component, quadrature component, position and remarks were recorded in a standard field book.

D. G. Leighton, Geophysicist, operated the instrument, whose specifications are given in Appendix I.

GEOPHYSICS

E. M. SURVEY RESULTS: The Sharpe SE-200 and Ronka EM16 survey results are presented on two separate, 1 inch to 500 feet plans. The plans corresponding to the SE-200 survey show tilt angles only. Those corresponding to the Ronka EM survey show both in-phase and out of phase measurements.

No significant conductors are indicated from the survey made with the Sharpe SE-200 instrument.

A number of minor anomalies are shown on the Ronka EM16 results. These conductors run in a generally northwest-southeast direction. They are thought to be due to shallow flat-lying clay overburden rather than to sulphide mineralization.

CONCLUSIONS

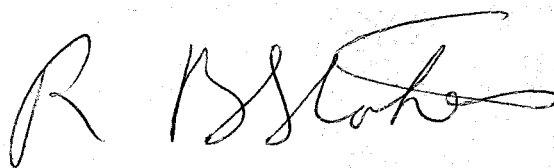
1. Geological mapping has indicated that the DOD-H claims are underlain by acidic intrusive rocks of the Takomkane Batholith and Tertiary Plateau Basalts.
2. Prospecting in the DOD-H area located only one minor occurrence of mineralization. The mineralization was in the form of molybdenite.
3. A geochemical survey of the area failed to produce any strong anomalous zones.
4. A magnetic survey of the project area failed to detect any anomalous response.
5. EM surveys of the DOD-H area indicated a number of shallow conductors trending in a northwest-southeast direction across the property.
6. Field work failed to indicate the presence of either widespread or intense alteration or evidence of economic mineralization.

RECOMMENDATIONS

On the basis of the field program undertaken by SEMCO, no further work is recommended on the DOD-H area at this time. Sufficient work has been done to allow for at least two Certificates of Work per claim.

Respectfully submitted,

STOKES EXPLORATION
MANAGEMENT CO. LTD.



R. B. Stokes, P. Eng.



I. A. C. Turnbull,
Mining Engineer.



D. G. Leighton,
Geophysicist. Geologist.

November 7, 1969.

CERTIFICATION

I, RONALD B. STOKES, do hereby certify that:

1. I am a practicing Professional Mining Engineer with Offices at Suite 209 - 678 Howe Street, Vancouver 1, British Columbia, and resident of Vancouver.
2. I am a graduate of the Camborne School of Mines, Cornwall, England, 1952.
3. I have practised Mining Engineering and Mining Exploration for seventeen years, fourteen of which were based in British Columbia.
4. I am a Member, in good standing, of the Association of Professional Engineers of the Province of British Columbia.
5. I am a Member of the Canadian Institute of Mining and Metallurgy and Associate Member of the Institution of Mining and Metallurgy, England, and the Australasian Institute of Mining and Metallurgy.
6. I am President of Stokes Exploration Management Co. Ltd., which carried out the program of exploration.

This report is based on study and interpretation of data assembled and work carried out under my supervision.

7. I have no direct, indirect or anticipated interest in the DOD-H property.

R. B. Stokes, P. Eng.

November 7, 1969.

APPENDIX I

SPECIFICATIONS - RONKA EM16

SPECIFICATIONS - RONKA EM16

Primary Field:	Horizontal from any selected VLF transmitting station.
Frequency Range:	Approximately 15 - 25 kc.
Station Selection:	By plug-in units. Two stations selected by a switch on front panel.
Measured Field:	Vertical field, in-phase and quadrature components.
Accuracy of Readings:	$\pm 1\%$ resolution.
Range of Measurements:	In-phase $\pm 150\%$ or $\pm 90^\circ$, quadrature $\pm 40\%$.
Output Readout:	Null-detection by an earphone, real and quadrature components from mechanical dials.
Batteries:	6, size AA penlight cells. Life about 200 hours.
Size:	16x5.5x3.5 in. (42x14x12 cm).
Weight:	2.4 lbs. (1.1 kg).

APPENDIX II

SPECIFICATIONS - SHARPE SE-200

SPECIFICATIONS - SHARPE SE-200

Frequency: 1250 c.p.s.

Signal Type: Intermittent, 2 to 3 c.p.s.

Separation: Up to 500 feet $\pm 2^\circ$ (null).

Exploration Depth: Approximately $\frac{1}{2}$ of separation.

Operation: All weather.

Batteries: 2x6 volt #731 Eveready (transmitter),
1x9 volt #216 Eveready (receiver).

Battery Life: In excess of 1000 stations.

Coil Diameter: 18 inches (46 cm).

Total Weight: 20 lbs. ($9\frac{1}{4}$ kg).

Shipping Weight: Approximately 40 lbs. (18 kg).

APPENDIX III

SAMPLE PREPARATION AND ANALYSIS

SAMPLE PREPARATION AND ANALYSIS

Water is removed from the sample by means of specially designed drying ovens. Following this, the sample material is sieved on a -80 mesh nylon screen to remove large fragments and render the sample more homogenous.

Samples to be tested for copper are decomposed by the usual Perchloric Acid Digestive Technique. Copper content is then determined by an Atomic Absorption Analysis.

Samples to be tested for molybdenum were assayed using the usual Colorimetric Method (Bisulphate Moly).

All sample preparation and analysis was done by Barringer Research Limited, of Vancouver, B.C.

APPENDIX IV

COSTS APPLICABLE FOR ASSESSMENT
WORK AND STATUTORY DECLARATION
OF SAME

DECLARATION SHOWING EVIDENCE OF EXPENDITURE

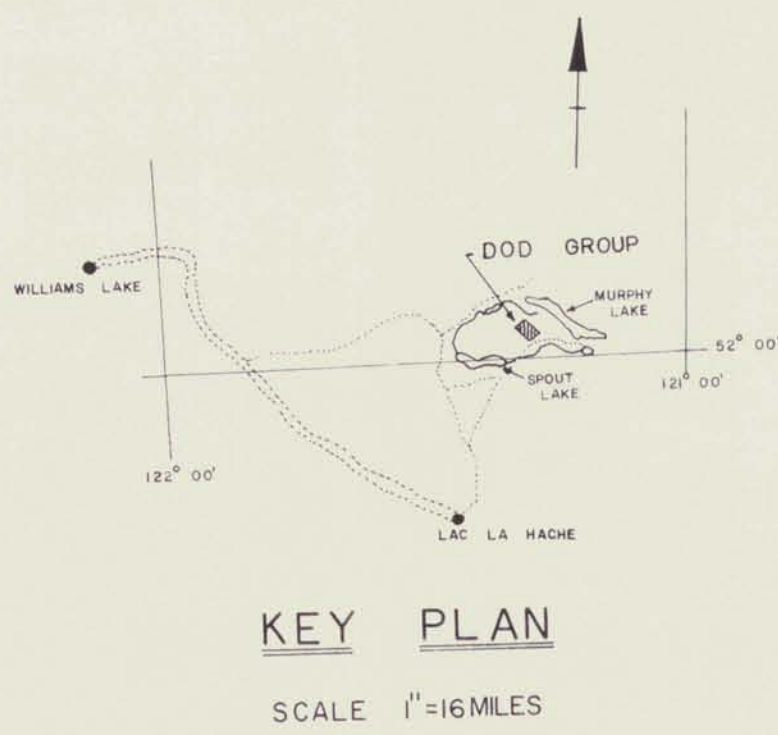
FOR WAGES AND SALARIES

"DOD" ASSESSMENT
PAYROLL SUMMARY

Name	Period of Work		No. days Worked	Daily Rate	Total amount Paid
	From	To			
I. A. C. Turnbull (Geologist)	7-13-69	9-15-69	16 2H	70.00 12.00	\$1,120.00 24.00
D. G. Leighton (Geophysicist)	7-16-69	9-16-69	8 4 H	70.00 12.00	560.00 48.00
R. Dickinson (Junior Geologist)	7-16-69	9-19-69	32	50.00	1,600.00
C. Broadbent	7-16-69	8-31-69	12	37.50	450.00
A. MacLeod	7-16-69	9-31-69	6	37.50	225.00
J. Stevenson	7-16-69	8-31-69	16	37.50	600.00
C. Briscoe	8- 1-69	8-31-69	11	37.50	412.50
M. Waskett-Myers	8-16-69	10-30-69	5 42 H	37.50 5.00	187.50 210.00
D. Blanchet	7- 1-69	7-31-69	3H	6.00	18.00
R. B. Stokes, P. Eng (Mining Engineer)	8- 1-69	8-31-69	1	100.00	100.00
			Total		<u>\$5,555.00</u>



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NO. **2370** MAP #7



LEGEND:

- LOCATION LINE & CLAIM POST
- SWAMP
- QUATERNARY: GLACIAL DEPOSITS AND RECENT ALLUVIUM
- TERTIARY: PLATEAU BASALTS, FLOWS & BRECCIAS
- LATE TRIASSIC/EARLY JURASSIC: HORNBLENDE BIOTITE QUARTZ MONZONITE
- GEOLOGICAL CONTACT, INFERRED
- STRUCTURAL ATTITUDE
- ROCK OUTCROP
- ROAD, TRAIL
- Mo MOLYBDENUM MINERALIZATION
- Py PYRITE
- Fl FLOAT
- K K-FELDSPAR ALTERATION
- Alt ALTERATION

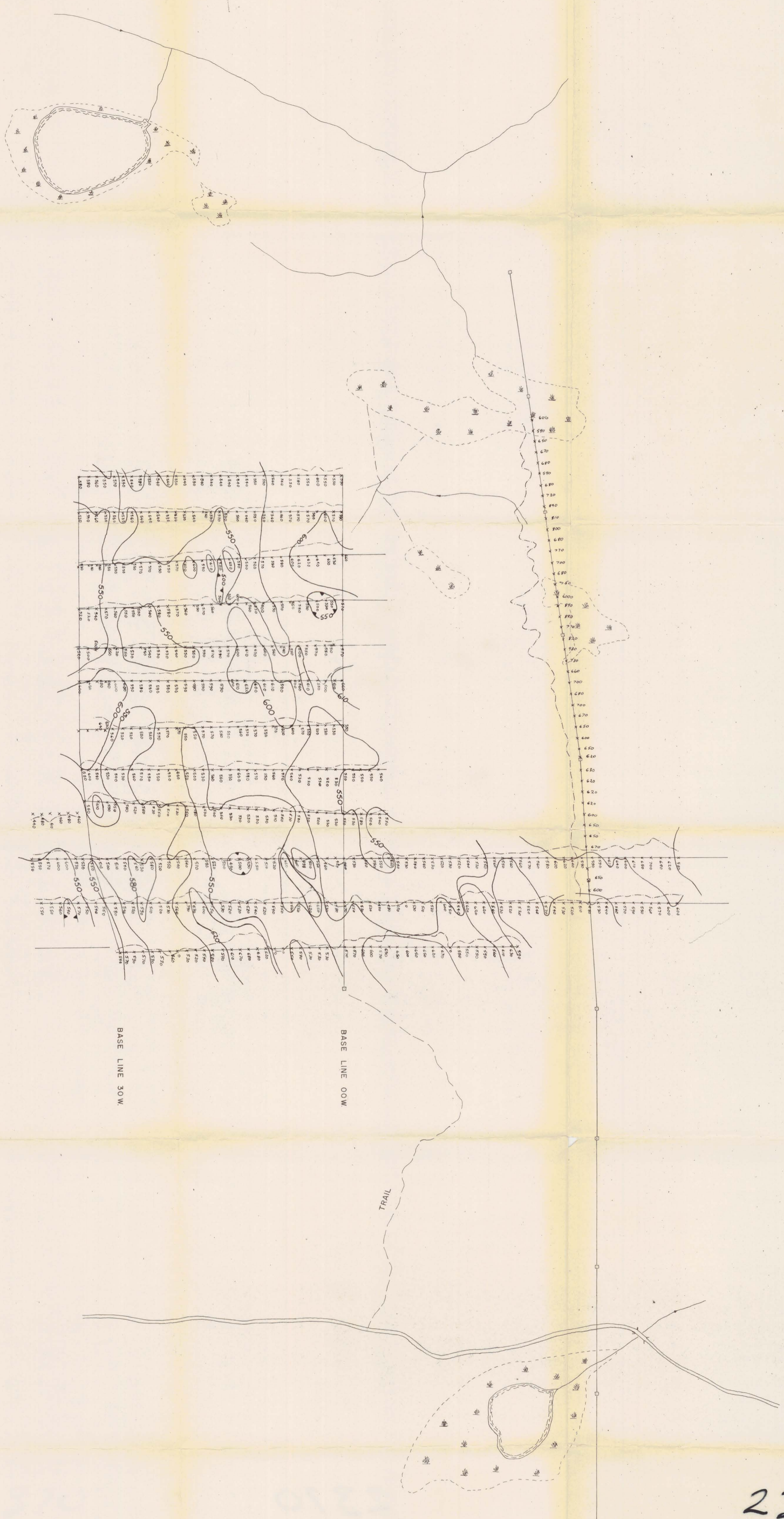
Map to accompany Geological, Geochemical, and Geophysical Report on C.O.D. Claims at Murphy Lake, B.C., by R.B. Stokes, D.G. Leighton, and Ian Turnbull, for CYPRUS EXPLORATION CORP. LTD.

2370 *ASST*

CYPRUS EXPLORATION CORPORATION LTD.
DOD CLAIM GROUP, CARIBOO
GEOLOGY

DRAWN BY SEMCO AUGUST, 1969 SCALE: 1" = 500'

LINE 58N
 LINE 54N
 LINE 49N
 LINE 44N
 LINE 39N
 LINE 35N
 LINE 30N
 LINE 25N
 LINE 20N
 LINE 15N
 LINE 10N
 LINE 5N



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Department of
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 NO. 2370 MAP #1

Map to accompany Geological, Geo-chemical, and Geophysical Report on the DOD Claims at MURPHY LAKE, B.C. by R.B. Stokes, D.G. Leighton, and Ian Turnbull for CYPRUS EXPLORATION CORP. LTD.

LEGEND
 VERTICAL SCALE 1" = 500 GAMMAS
 GRID LINE DATUM AT 5500 GAMMAS ABSOLUTE
 ISOMAGNETIC LINES AT 50 GAMMA INTERVALS

CYPRUS EXPLORATION CORPORATION LTD.
 DOD CLAIM GROUP, CARIBOO
 MAGNETIC PROFILES 'A'
 DRAWN BY SEMCO AUGUST, 1969 SCALE 1" = 500'

LINE 58N
 LINE 54N
 LINE 49N
 LINE 44N
 LINE 39N
 LINE 35N
 LINE 30N
 LINE 25N
 LINE 20N
 LINE 15N
 LINE 10N
 LINE 5N



BASE LINE 30W

BASE LINE 00W

TRAIL



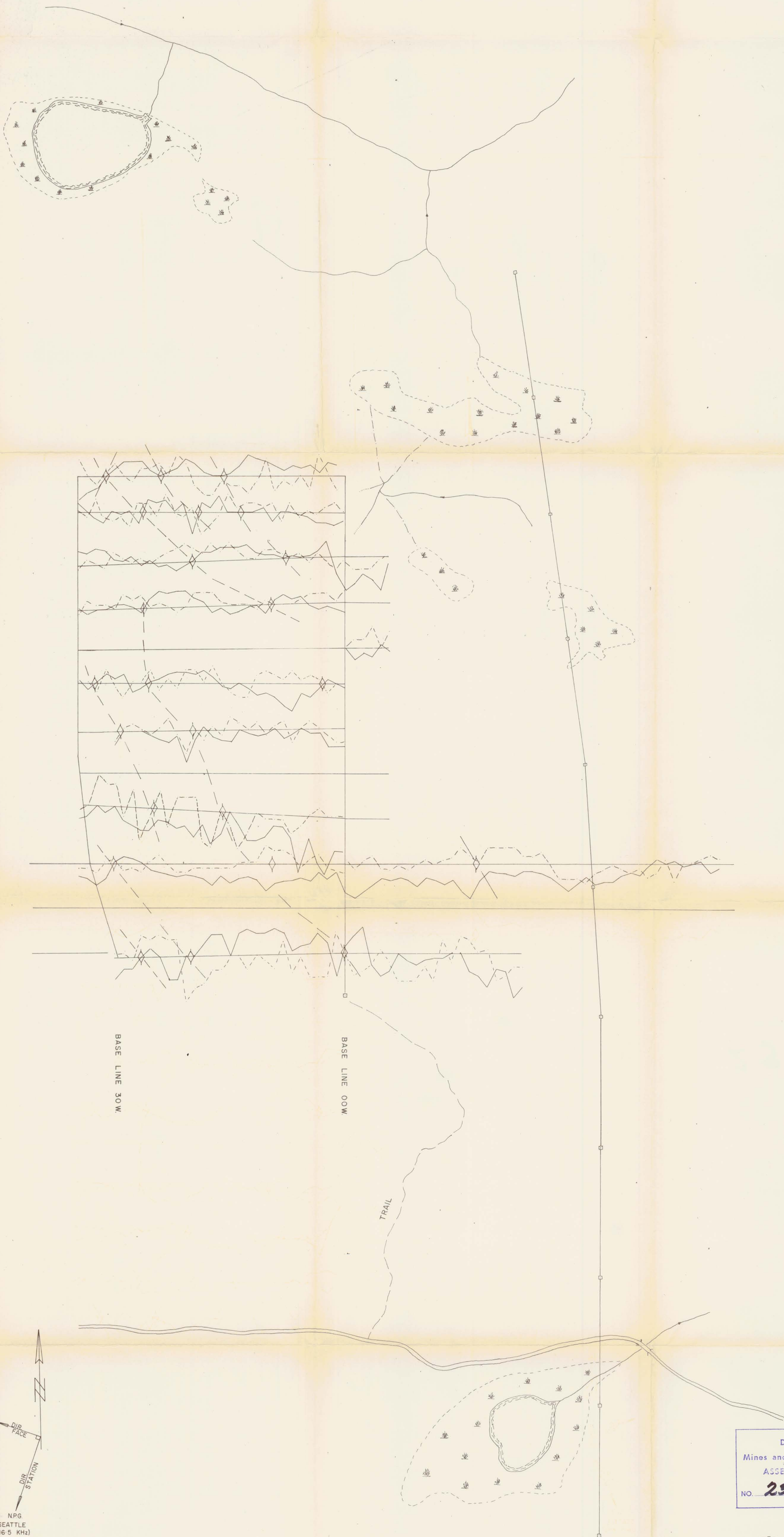
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 2370 MAP #6

2370

LEGEND:

- CONDUCTOR
- VERTICAL SCALE 1" = 40'
- DIP ANGLE PROFILE - NORTH ANGLES ABOVE LINES
- SURVEYED BY SHARPE S.E. 200 E.M. UNIT

CYPRUS EXPLORATION CORPORATION LTD.
 DOD CLAIM GROUP, CARIBOO
 EM SURVEY
 SHARPE MODEL SE-200 (1250 cps)
 DRAWN BY SEMCO AUGUST, 1969 SCALE 1" = 500'



LINE 58N
 LINE 54N
 LINE 49N
 LINE 44N
 LINE 39N
 LINE 35N
 LINE 30N
 LINE 25N
 LINE 20N
 LINE 15N
 LINE 10N
 LINE 5N

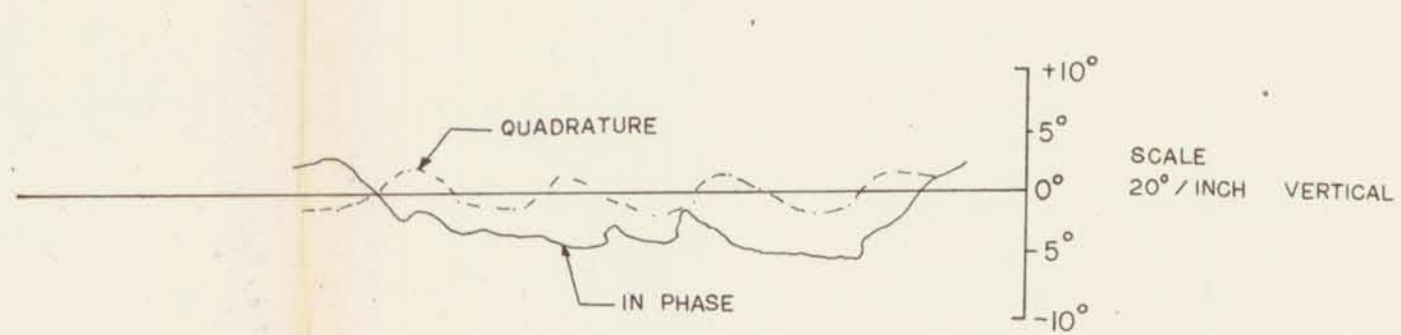
BASE LINE 30W

BASE LINE 00W

TRAIL



RONKA E.M. 16 PROFILE



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 NO. **2370** MAP **#5**

- LEGEND**
- CLAIM POST
 - ⊞ MARSH
 - ⊞ E.M. CONDUCTOR

2370

CYPRUS EXPLORATION CORPORATION LTD.
 DOD CLAIM GROUP, CARIBOO
 E.M. SURVEY
 RONKA MODEL E.M. - 16 (16-24 KHz)

DRAWN BY SEMCO SEPTEMBER 1969 SCALE 1"=500'

LINE 58N
 LINE 54N
 LINE 49N
 LINE 44N
 LINE 39N
 LINE 35N
 LINE 30N
 LINE 25N
 LINE 20N
 LINE 15N
 LINE 10N
 LINE 5N



BASE LINE 30W

BASE LINE 00W

TRAIL

2370

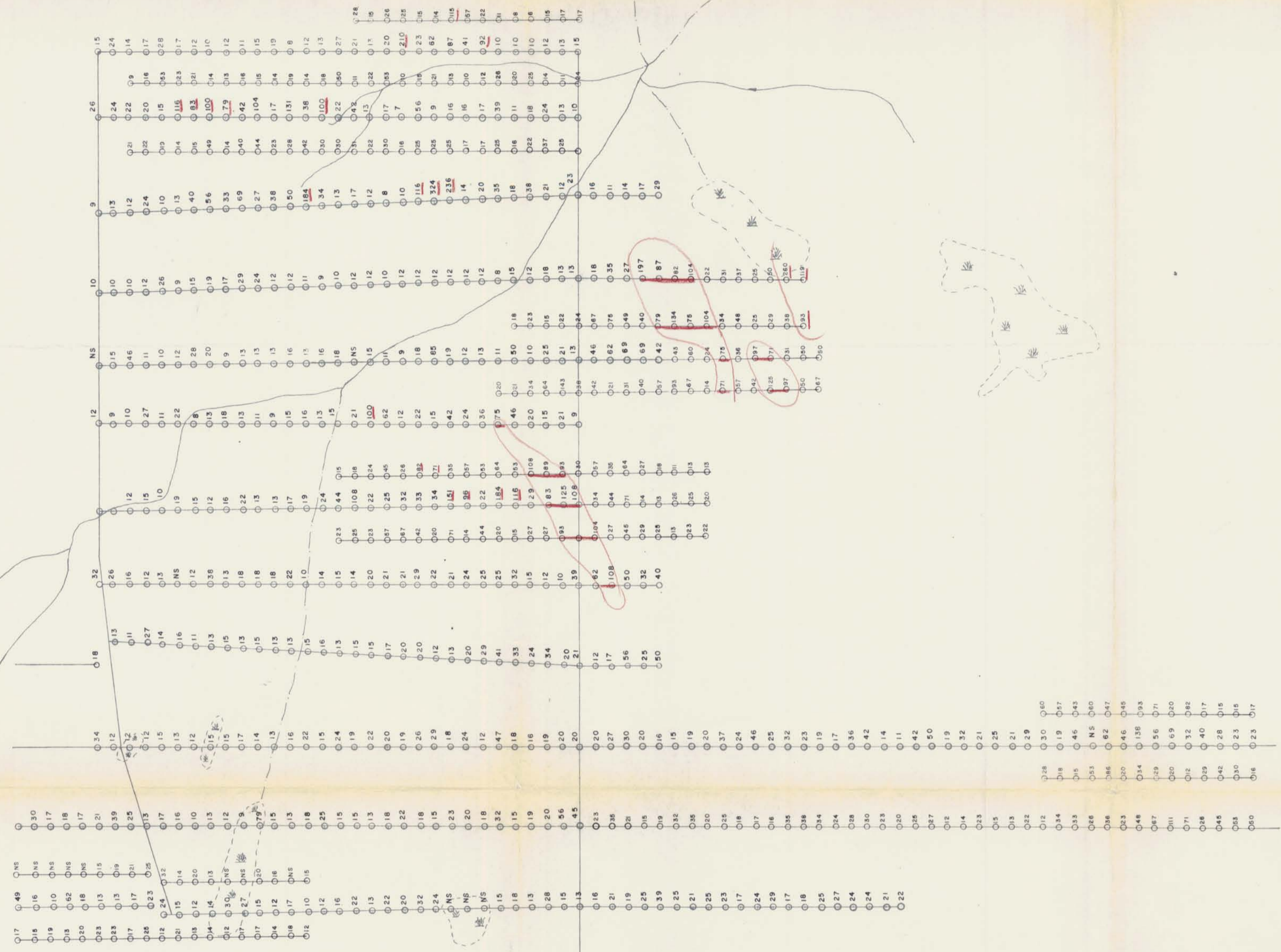
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 2370 MAP #4

Map to accompany Geological, Geochemical,
 and Geophysical Report on DOD Claims
 at Murphy Lake, B.C., by R.B. Stokes,
 D.G. Leighton, and Ian Turnbull, for
 CYPRUS EXPLORATION CORP. LTD.

CYPRUS EXPLORATION CORPORATION LTD.
 DOD CLAIM GROUP, CARIBOO
 SOIL SAMPLE NUMBERS AND LOCATION
 DRAWN BY SEMCO AUGUST, 1969 SCALE: 1" = 500'

R.B. Stokes

LINE 58N
 LINE 54N
 LINE 49N
 LINE 44N
 LINE 39N
 LINE 35N
 LINE 30N
 LINE 25N
 LINE 20N
 LINE 15N
 LINE 10N
 LINE 5N



BASE LINE 30W

BASE LINE 00W

TRAIL



Department of
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 NO. **2370** MAP **#3**

LEGEND:
 0 p.p.m. TOTAL Cu.
 NS NO SAMPLE

2370

R. Stokes

Map to accompany Geological, Geochemical
 and Geophysical Report on FOD Claims
 at Murphy Lake, BC, by R.B. Stokes,
 D.G. Leighton, and Ian Turnbull, for
 CYPRUS EXPLORATION CORP. LTD.

CYPRUS EXPLORATION CORPORATION LTD.
 DOD CLAIM GROUP, CARIBOO
 GEOCHEMICAL SURVEY, COPPER

DRAWN BY SEMCO AUGUST, 1969 SCALE: 1"=500'

LINE 58N
 LINE 54N
 LINE 49N
 LINE 44N
 LINE 39N
 LINE 35N
 LINE 30N
 LINE 25N
 LINE 20N
 LINE 15N
 LINE 10N
 LINE 5N



BASE LINE 30W

BASE LINE 00W

TRAIL

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R. Stokes

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 ASSESSMENT REPORT
 NO. **2370** MAP #2

LEGEND:
 ○ p.p.m. Mo
 NS NO SAMPLE

Map to accompany Geological, Geochemical,
 and Geophysical Report on DOD Claims
 at Murphy Lake, B.C., by R.B. Stokes,
 D.G. Leighton, and Ian Turnbull, for
 CYPRUS EXPLORATION CORP. LTD.

CYPRUS EXPLORATION CORPORATION LTD.
 DOD CLAIM GROUP, CARIBOO
 GEOCHEMICAL SURVEY, MOLYBDENUM
 DRAWN BY SEMCO AUGUST, 1969 SCALE: 1" = 500'