

3443

GEOLOGICAL REPORT

ON THE

CATS EYE 3 - 20 INCLUSIVE AND 23,

MONICA 1 - 10 INCLUSIVE AND

HOT 1 - 14 INCLUSIVE

THUNDER VALLEY MINES LTD. (N.P.L.)

TOFINO, BRITISH COLUMBIA

ALBERNI MINING DIVISION

49° 17' 30" N. and 125° 53' W.

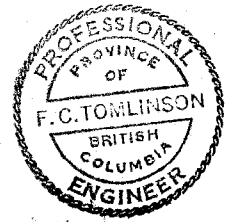
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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 3443 MAP

by

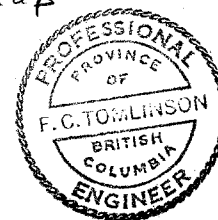
F.C. TOMLINSON, P. Eng.
Consulting Geologist



July , 1971

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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 3443

MAP #1

Thunder Valley Mines Ltd
Hot Group
Cats Eye Group
Monica Group



Report By
F.C. Tomlinson

F.C. Tomlinson P. Eng.

BRITISH COLUMBIA
MAIN HIGHWAYS, CITIES & TOWNS



DOMINION MAP LIMITED
626 HOWE ST., VANCOUVER B.C.

GEOLOGICAL REPORT ON THE

CATS EYE 3 - 20 INCLUSIVE and 23 and HOT 1 - 14

INCLUSIVE and MONICA 1 - 10 INCLUSIVE

SITUATED ON CYPRE RIVER

12 MILES NORTH OF TOFINO, B. C.

INTRODUCTION:

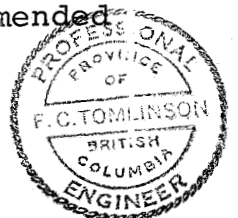
This report is prepared at the request of the Directors of Thunder Valley Mines Ltd. (N.P.L.) of Vancouver, B.C.

The report is based on the following:

1. Examination of the Claims.
2. Geological interpretation and mapping.
3. Aeromagnetic - aerelectromagnetic survey.
4. Ground magnetometer survey.
5. Geochemical survey.
6. Evaluation of all results.

The examination and survey were made on November 28, 1970 and December 6, 1970 and April 8, 1971. Various personnel acted as guides in locating the claim posts and showing. Mr. M. Swetz on my first visit and Mr. Cal Peacock on my second trip.

In my original report for Mr. A. Petancic, the recommendations included Cats Eye 1 & 2 but I have recommended dropping these two claims after my third visit in which



mapping had proved lack of structural continuity.

LOCATION:

The Cats Eye 3 - 20 and 23 and Hot 1 - 14 and Monica 1 - 10 are located 12 miles north of the town of Tofino, B.C. and more precisely, on the east flanks of the Catface Range and on the west flanks of the Bedingfield Range. The Cypre River intersects the west portion of the claim group and to the south it is bounded by Cypress Bay.

The approximate geographical location is 49 17' 30" north and 125 53' west.

ACCESS:

From Tofino, B.C. airtransport is available to Cypress Bay via McCauley Air Charter or by boat, barge or skiff from Tofino through Heyenen Channel to Maurus Channel and through Epper Passage into Cypress Bay.

TOPOGRAPHY:

The claims are located between the Catface Range to the west and to the east by the Bedingfield Range, with Cypre River flowing between. In general the coastline is fiorded with indentations. The hills gradually increase in elevation from a few hundred feet to 3,000 feet and behind Clayoquot Sound up to 7,000 feet. The stage of



erosion can be considered "advanced youth" as shown by some of the irregularly distributed and isolated mountain peaks resulting from a late or middle Tertiary erosion cycle, e.g. on neighbouring Flores Island, a cluster of cone like peaks carved into dioritic rock.

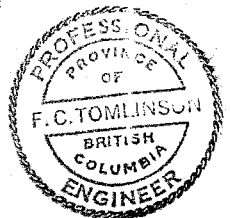
The region represents a variety of geomorphic features from deeply "pot holed" river gorges in granodiorite to low lying tracts of land developed on younger and softer formations, especially at the estuary of Cypre River on Indian Reserve 19. The coastline has very little coastal plains and mostly pseudo coastal plains which are tidal flats.

CLIMATE:

The climate along the coast is wet with upwards of 120" per year. A greater part of the rain falls in the winter months. The temperature along the coast is remarkably uniform and temperate due to the influence of the Japan current. The average temperature is 40° F. in winter and 55° F. in summer.

VEGETATION:

The area of the claims are almost entirely forested. It has stands of Douglas fir, cedar, hemlock, spruce, with some balsam and pine. In places the forest is of little value due to large amounts of windfalls and snow slides.



Where the forest is thick on the upper elevations the underbrush is not abundant.

In the more open and damper places, the underbrush is extremely thick and is a real impediment to travel. It consists of dense scrub, salal, salmon and huckleberry. There are also varieties of maple and alders. In the poorly drained sections, there occur in welcoming abundance, devils' clubs.

ACCOMMODATION:

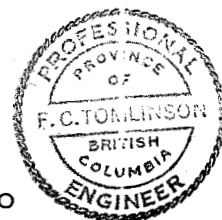
No buildings or accommodations are available on the property. However, for short periods of time, due to the proximity of Tofino, one can be suitably accommodated there. A small camp site was erected at the beginning of the summer on the south end of the Hot claims so that a tent camp can be set up.

LABOUR:

An ample labour pool of experienced miners, diamond drillers and exploration crews are available in the near by areas.

SUPPLIES:

All mining supplies can be purchased in Nanaimo



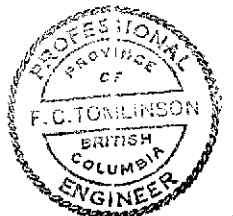
and lesser supplies can be purchased in Tofino. If they are not available there, good daily express or freight can bring in the required part within 24 hours.

CLAIMS:

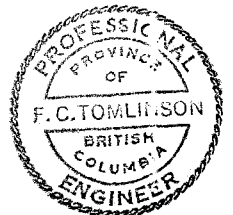
CATS EYE AND HOT AND MONICA CLAIMS

The property consists of 43 contiguous claims, all held by right of location. It contains some 2200 acres, more or less. The Hot 1 - 14 will be in good standing until July 1972 as work previously done is presently being filed. Cats Eye 3 - 20 inclusive and 23 are in good standing until December 8, 1971. The Monica 1 - 10 inclusive staked by the Company are in good standing until April 23, 1972. The Cats Eye Group, Hot Group and the Monica Group have been visited by the author on several occasions and all claim posts that were examined have the proper tags and inscriptions and the location lines are blazed as well as one can expect.

<u>Claim Name</u>	<u>Tag No.</u>	<u>Record No.</u>
Hot #1	610810	12960
Hot #2	610811	12961
Hot #3	610812	12962
Hot #4	610813	12963
Hot #5	610814	12964
Hot #6	610815	12965



Hot #7	610816	12966
Hot #8	610817	12967
Hot #9	888057	12968
Hot #10	888058	12969
Hot #11	888059	12970
Hot #12	888060	12971
Hot #13	888061	12972
Hot #14	888062	12973
Cats Eye #3	198603 M	17167
Cats Eye #4	198604 M	17168
Cats Eye #5	198605 M	17169
Cats Eye #6	198606 M	17170
Cats Eye #7	198607 M	17171
Cats Eye #8	198608 M	17172
Cats Eye #9	198609 M	17173
Cats Eye #10	198610 M	17174
Cats Eye #11	198611 M	17175
Cats Eye #12	198612 M	17176
Cats Eye #13	198613 M	17177
Cats Eye #14	198614 M	17178
Cats Eye #15	198615 M	17179
Cats Eye #16	198616 M	17180
Cats Eye #17	198617 M	17181
Cats Eye #18	198618 M	17182
Cats Eye #19	198619 M	17183
Cats Eye #20	198620 M	17184
Cats Eye #23	198621 M	17185



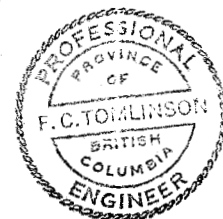
Monica #1	486569	17531
Monica #2	486570	17532
Monica #3	486571	17533
Monica #4	486572	17534
Monica #5	486573	17535
Monica #6	486574	17536
Monica #7	486575	17537
Monica #8	486576	17538
Monica #9	486577	17539
Monica #10	486578	17540

HISTORY:

Mineralization has been known to exist in the area but due to the rugged terrain and inaccessibility, exploration companies have generally overlooked the area and it received little interest until recent years. Within the last few years, showings of this nature are becoming more important.

ADJACENT PROPERTIES:

The property to the immediate west and located on the peninsula on the Catface Range is the Catface Copper Ltd., a wholly owned subsidiary of Falconbridge. The property was staked by Falconbridge in the early 1960's and they have carried out extensive work on the property. It has been



established that upwards of 41 holes and over 33,000' of diamond drilling has proven a body in excess of 200,000,000 tons of .45 to .50% Cu, with 80¢ in royal metals. The deposit is still open to depth and strike and mineralization to depth is consistent and has possibilities of increasing the tonnage vastly. The property is located on a Tertiary intrusive whose eastern extension has not entirely been mapped. The project has not had too much publicity due to the private nature of the company.

*Source of information
???*

GEOLOGY:

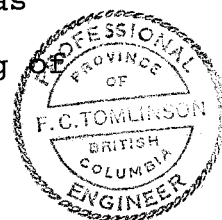
The table following will outline in general the regional geology of the southwestern portion of Vancouver Island.

The andesites and andesitic tuffs on the property belong to the Vancouver group of Lower Jurassic or Upper Jurassic age. They are steeply folded along axes striking roughly parallel with the main axes of the island, being roughly N. 60° W. Interbedded with the andesites are limestones of contemporaneous formation called the Sutton formation. In the north part of the Hot Claims, the limestones are either interbedded or found as xenoliths in the andesite. A fairly high degree of metamorphism exemplified by the evidence of epidote, tremolite and garnet would suggest that it is intruded by a diorite or granodiorite of later age as opposed to a gabbroic phase sill-like structure as mapping the southern part of the claims suggests.

*See Muller
& Johnson
Sutton?*

GSC Paper 68-50

*Basalt
metamorphosed*



West Side of Vancouver Island

Table of Formations

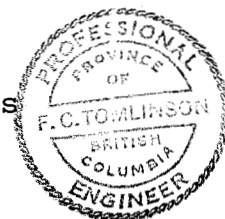
Era	Period	Epoch	Formation	Lithology
Cenozoic	Modern	Recent	Stream and beach deposits	Sand, gravel, clay
		Pleistocene	Wreck Bay continental and marine beds	Glacial and interglacial gravel, silt, boulder clay
	Unconformity			
	Tertiary	Lower Miocene Lower Oligocene	Carmanah Sooke gabbro, Metchosin	Conglomerate, sandstone, anorthosite, basalts, and tuff
		Oligocene (?)	Escalante	Conglomerate, sandstone, shale
Unconformity				
Mesozoic	Cretaceous	Upper Cretaceous Lower Cretaceous	Cowichan (One Tree island)	Sandstone, shale, conglomerate, and coal
	Unconformity			
	Jurassic	Upper Jurassic (?)	Coast Range intrusives	Zeballos granodiorite Beale diorite
	Intrusive contact			
Triassic	Upper Triassic	Vancouver group	Bonanza	Flows, tuff, breccia, argillite, and limestone
			Quatsino	Crystalline limestone with interbedded volcanics
			Karmutsen	Flows, breccia, minor interbeds of limestone
Paleozoic	Permian and pre-Permian			Crystalline limestone, volcanics, and minor sedimentary beds of Buttle Lake area



The Coast Range Batholith is composed of two distinct types: (1) Saanich Granodiorite - a light grey medium-coarse rock consisting of plagioclase, quartz and hornblende with minor biotite; (2) Beale Diorite - characterized by a darker grey due to greater mafics and lack of quartz. The latter is suggested by Clapp to be an older and a marginal phase of the Saanich granodiorite. The distribution of batholiths on the western watershed would favour the hypothesis that the Coast Range Batholith is not entirely unroofed. The flanks of Mt. Beddingfield would suggest this, as evidenced by float and scree composed of some plutonic rocks and largely meta-andesitic tuffs. The exposed batholiths, e.g. Catface Copper and the east side of Flores Island are mere protuberances or cupolas.

Along the banks of Cypre River, towards its watershed on the Cats Eye and Monica claims, numerous dykes of gabbro to diorite composition are found. This would suggest that dykes are quite common in the central parts of many of the granodioritic areas, leading to the theory that the upper mineralized portion of the batholiths still exist intact, of which Catface Copper would be an example and the east protrusion of Mt. Beddingfield could be another.

Most of the regional mapping carried out by the Geological Survey of Canada suggests the activity of plutonic intrusions to be of Jurassic age. Tertiary activity is based on two lines (1) Large belts of basalts and gabbros



of late Tertiary age, and (2) Evidence of hot springs in plutonic environments. On neighbouring Flores Island there are hot springs emanating from intrusives favouring the school that Tertiary intrusives in the area are in evidence.

In places along Cypre River, stratified beds of gravel and sand may have its origin in Pleistocene age and being a member of the Wreck Bay Formation resting unconformably on the Cretaceous and older rocks.

The structural evidence favouring mineralization in this area is summarized as follows: *How do these favour mineralization?*

- (1) Lava flows of the Vancouver Group vary in thickness. ?
- (2) Flows have been over uneven surfaces. ?
- (3) Contacts with limestones show intrusive relations due to metamorphosed nature. ?
- (4) Andesites vary from tuffaceous to meta-andesites and locally seem unconformable. ?
- (5) Evidence of gabbroic dykes intruding mineralized andesites. ✓

SHOWINGS:

On the Hot #10 claim, samples taken along a zone of N - S striking fissures in meta-andesites with accompanying chlorite and epidote varying in thickness from 1' - 2' showed primary chalcopryrite and malachite.



Grab samples assayed:

<u>Cu</u>	<u>Ag</u>	<u>Au</u>
2.36%	.5 oz/T	.02 oz/T
1.60%	.5 oz/T	.01 oz/T

On Hot #9 claim, samples taken across the first trench where fracture zones striking E - W assayed as grab:

<u>Cu</u>	<u>Ag</u>	<u>Au</u>
1.72%	.3 oz/T	TR
1.20%	.2 oz/T	TR

At the second trench E - W an altered gabbro with epidote, antinolite and quartz showed some chalcopryrite and malachite. In the same sequence, pyrrhotite and hematite were found in small amounts associated with chalcopryrite. Most of this area is heavily covered by salal and underbrush but further trenching would prove profitable as at present only small amounts of exposure exist.

A sample taken on the east bank of Cypre River on Cats Eye #4 on a shear fracture zone scattered over 20' gave grab assays of 1.90% cu., .1 oz/T Ag. and TR Au.

Samples taken from Cats Eye #5 showed disseminated chalcopryrite in meta-andesite and gabbro to be 0.25% Cu. over a width of 15'. Most of the area is covered and has to be bulldozed.



Float samples along Cypre River north on Cats Eye #7 and 8 showed chalcopyrite, malachite and epidote in altered limestone and meta-andesites. Assays were as follows:

<u>Cu</u>	<u>Ag</u>	<u>Au</u>
2.76%	.5 oz/T	.02 oz/T
4.75%	.7 oz/T	TR oz/T

The favourability of mineralization in the area can be accounted for by possible (1) contact metamorphic - found near contacts between the limestones of the Vancouver Group and the intrusions of granodiorite of the Coast Range Batholith; (2) Uncovered intrusion bodies of the so-called "porphyry copper" types like the quartz monzonite plug on the Catface Range.

EXPLORATION WORK:

On March 16, 1971 at the recommendation of the author an airborne geophysical survey was conducted by Waterton Airex Ltd. This survey was a combined magnetic, electromagnetic and radioactivity test. It was decided that a survey of this nature be carried out as a preliminary step for the following reasons:

- (1) Area is relatively flat and relief minimal, which is suitable for airborne surveys.
- (2) Extremely congested windfall area.
- (3) Airborne survey would delineate areas of insigni-



ficant electrical and magnetic conductivity.

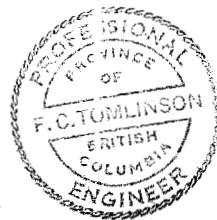
- (4) Desirability of greater coverage.

The survey covered a section 16,500' by 11,000' on a NE striking grid with a 500' separation. Readings were taken every 500' at an altitude of 500' above the surface. Thirty-four runs were made and each spaced at 500' apart. The following equipment was used for the survey:

- (1) Aircraft: a piper 235 Cherokee which has been modified for geophysical case.
- (2) Radioactivity: Radioactive effects were measured by a 24 tube nuclio-meter model DR-299.
- (3) Electromagnetic: A 200 foot long copper coil mounted on the bottom of the aircraft transmits a field of 1,000 cycles per second. A towed bird with a receiving coil at 90 degrees to the transmitting coil receives the signals which are taped automatically.
- (4) Magnetometer: a PMF-3 Fluxgate magnetometer which has been modified for airborne use, measured the magnetic effects.

The result of the survey showed three areas of coinciding magnetic anomalous lows and electrical conductors where future work can be concentrated.

- A. NE-SW trending anomaly on the north side of the Cypre River. The magnetic lows averaged MINUS



500 gammas with a length of 8,000' with widths of 500' to 1,000'. The conductors ranging from .4 to 1.3 micro amps.

- B. On the western flanks of the Bedingfield Range on the Hot claims group, magnetic lows averaging minus 350 gammas with dimensions of 2,000' by 1,500'. A N-S trending electrical conductor ranging .8 - 1.0 micro amps coincides.
- C. On the eastern flanks of the Catface Range on the Cats Eye Group, a series of 3 low magnetic readings averaging minus 400 gammas on the south. Two N - S conductors ranging from .6 - 1.0 micro amps is found adjacent

Subsequently a crew was sent in to cut trails and establish peripheral grid lines for a reconnaissance ground magnetometer and geochemical survey. As a result of the airborne survey the Monica 1 - 10 claims were staked by the Company.

At the latter part of June, 1971 a crew was sent in to establish four grid traverses.

- A. South boundry of the Hot Claims E - W.
- B. A N - S to NE-SW line on the west and north west side of Cypre River.
- C. A grid to cover the east side of lower Cypre River.
- D. A N - S line bisecting the Hot Claims.



GROUND MAGNETOMETER:

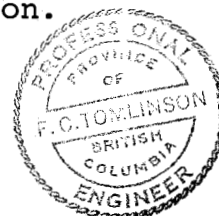
A Sharpe PMF - 3 Fluxgate magnetometer was used to carry out a survey over three grid lines. The instrument took readings every 100 - 150' in conjunction with the geochemical survey. The four grid lines were established in areas where the airborne survey had outlined anomalies and the ground survey was used as a check to confirm the existence of the anomalous readings. On line A background was in the range of 3,500 gammas. On line B and C in the range of 3800 - 3900 gammas.

RESULTS:

On lines A, B, C, anomalous readings were encountered, sufficient to confirm the existence of magnetic bodies especially in the area where showings were located. (see plan - Re: mag map)

GEOCHEMICAL SURVEY:

Using extension augers, a program was carried over the established grid in conjunction with the magnetometer survey at 100 - 150' intervals. The B-1 Horizon was sampled and where soils were not available, silt samples were taken. The dithiazone-colorametric method for copper was employed with the results plotted in parts per million.



Background on line A was 3 - 4 parts per million of copper, on lines B, C and D the background was 5 - 6 parts per million.

RESULTS:

Encouraging results were obtained in all the areas sampled, confirming the airborne survey. Line B along Cypre River the primary target for future exploration work showed the best results. (see plan - Re: Geochem map)

OPINION:

On the basis of the information available to date, reflecting on the lithological, structural, geophysical, geochemical and mineralogical features of the property, the author is of the opinion that further tests and exploration of the Thunder Valley Mines Ltd. property is justifiable and warranted.

RECOMMENDATIONS:

It is recommended that the next effort in exploration of this property be directed toward definitive probing of the target zones. It is further recommended that in order to keep camp and logistical costs to a minimum, that much of the above program be carried out concurrently.

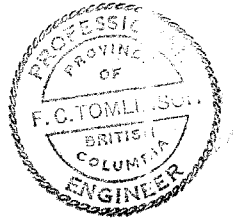
The property can be worked effectively at least 10 months per year. The overall evidence is indicative of a favourable environment upon which exploration should be



carried out as summarized in the estimated costs.

Respectfully Submitted,

F.C. Tomlinson
F.C. Tomlinson, P. Eng.

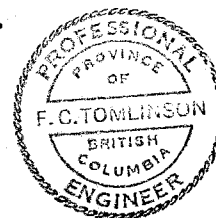


ESTIMATED COSTS

Geological mapping	\$2,000.00
Line Cutting & Trails	\$3,000.00
Geochemical Survey (\$2.00 @ 1000)	\$2,000.00
Magnetometer & Ground E.M. (20 miles @ \$200.00)	\$4,000.00
Induced polarization (10 miles @ \$500.00)	\$5,000.00
Assays	\$1,000.00
Camp and logistics	\$4,000.00
Engineering & Supervision	\$4,000.00
Trenching	\$5,000.00
Diamond Drilling (1000 @ \$11/ft.)	\$11,000.00
	<hr/>
	\$41,000.00
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for Contingencies Reserve	\$4,000.00
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TOTAL	\$45,000.00
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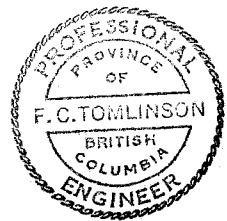
Respectfully Submitted,

F. C. Tomlinson
F. C. Tomlinson, P.Eng.



REFERENCES

1. Vancouver Island. G.S.C. (Barclay Sound)
1918 part B by Dolmage
2. Vancouver Island. G.S.C. (Barclay to Quatsino)
1919 part B by Dolmage
3. Gold Deposits of Vancouver Island, Memoir 204
by Bankroft
4. G.S.C. Memoir 13, by Clapp
5. Geology of Alberni map area, paper 68-50
1969 by Muller and Carson.



C E R T I F I C A T I O N

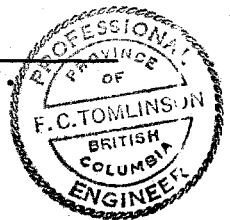
I, F.C. Tomlinson, residing at 117 - 1650 West 13th Avenue, Vancouver 9, B.C., hereby certify that:

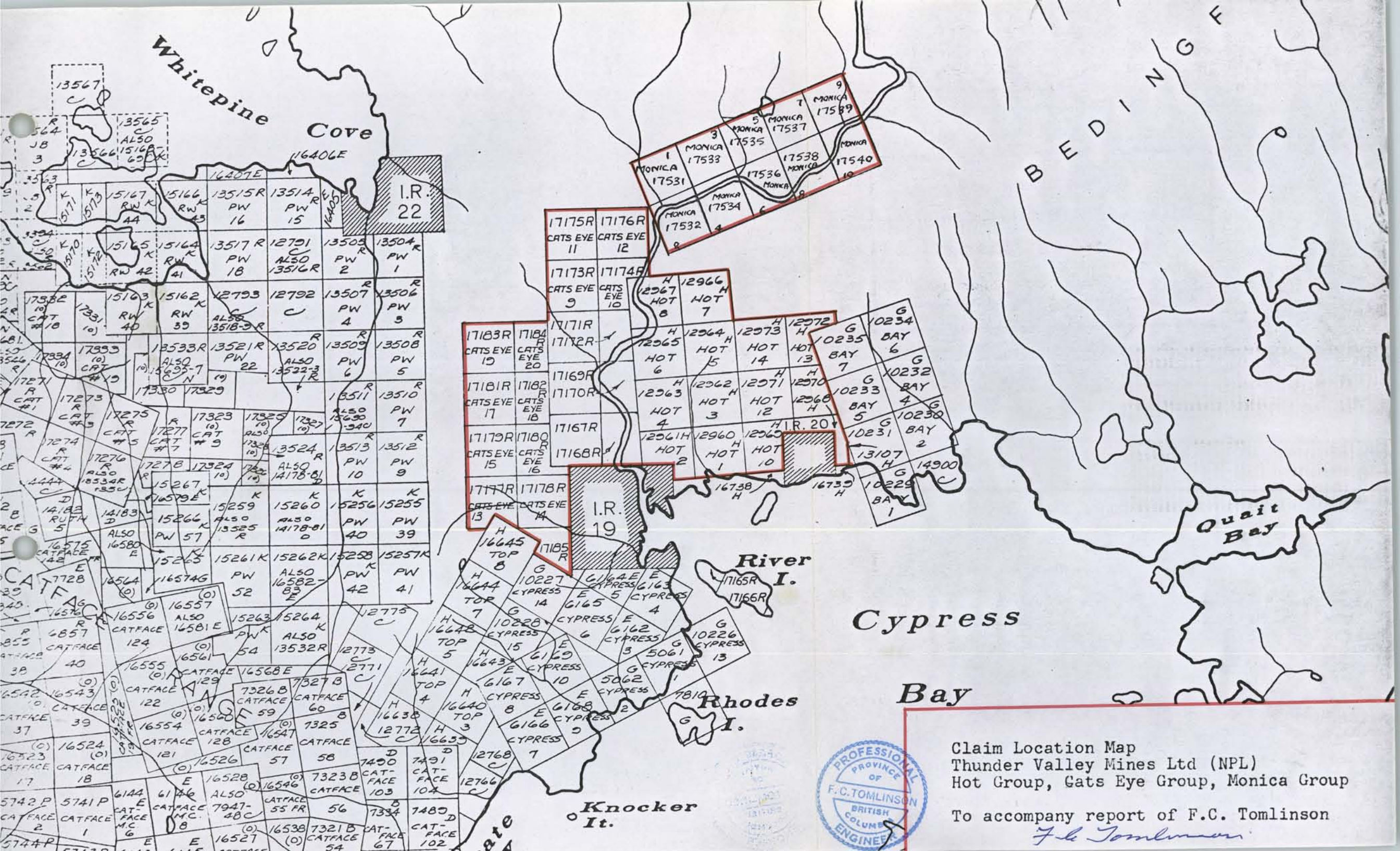
- (1) I am a graduate Mining Engineer from the University of Toronto 1923 and that I have been engaged in all phases of Mining since that date in Canada and South and Central America.
- (2) I am a member of the Association of Professional Engineers of British Columbia and a member of the Canadian Institute of Mining and Metallurgy.
- (3) The attached report was authorized in a letter dated June 16, 1971 from Mr. A. Petancic.
- (4) I have no interest in the Cats Eye, Monica or Hot claims, subject of my report, and hold none of the capital stock of Thunder Valley Mines Ltd. (N.P.L.) or any company involved.

DATED at Vancouver, British Columbia, this nineteenth day of July, 1971.

F. C. Tomlinson

F. C. Tomlinson, P. Eng.





Whitepine Cove

B E D I N G F

Quait Bay

River I.

Cypress

Bay

Rhodes I.

Knocker It.

I.R. 22

I.R. 19



Claim Location Map
 Thunder Valley Mines Ltd (NPL)
 Hot Group, Gats Eye Group, Monica Group

To accompany report of F.C. Tomlinson

F.C. Tomlinson



Gabbro - Peridotite complex

ANDESITE

HYBRID
MARGIN
PHASE

camp

crack

And fault

And perp

CYPRESS BAY

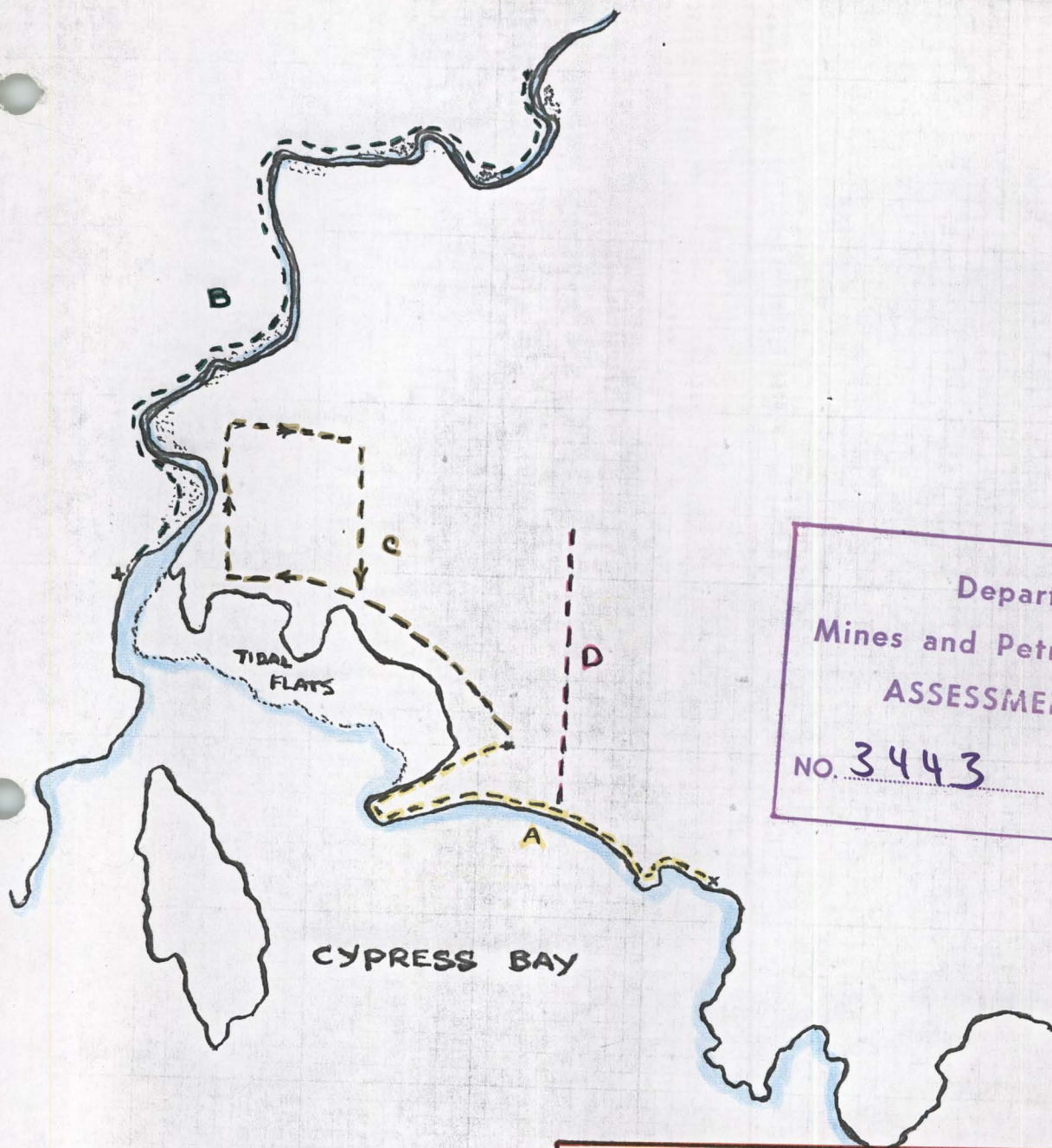
Geological Reconnaissance
THUNDER VALLEY MINES LTD
SOUTH BOUNDARY OF HOT CLAIMS

TO ACCOMPANY REPORT BY:
F.C. TOMLINSON P.ENG.

JULY 1971

F.C. Tomlinson





Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3443 MAP #2

THUNDER VALLEY MINES LTD.
GEOCHEMICAL SURVEY
GROUNDMAGNETOMETER
TRAVERSE PATTERN

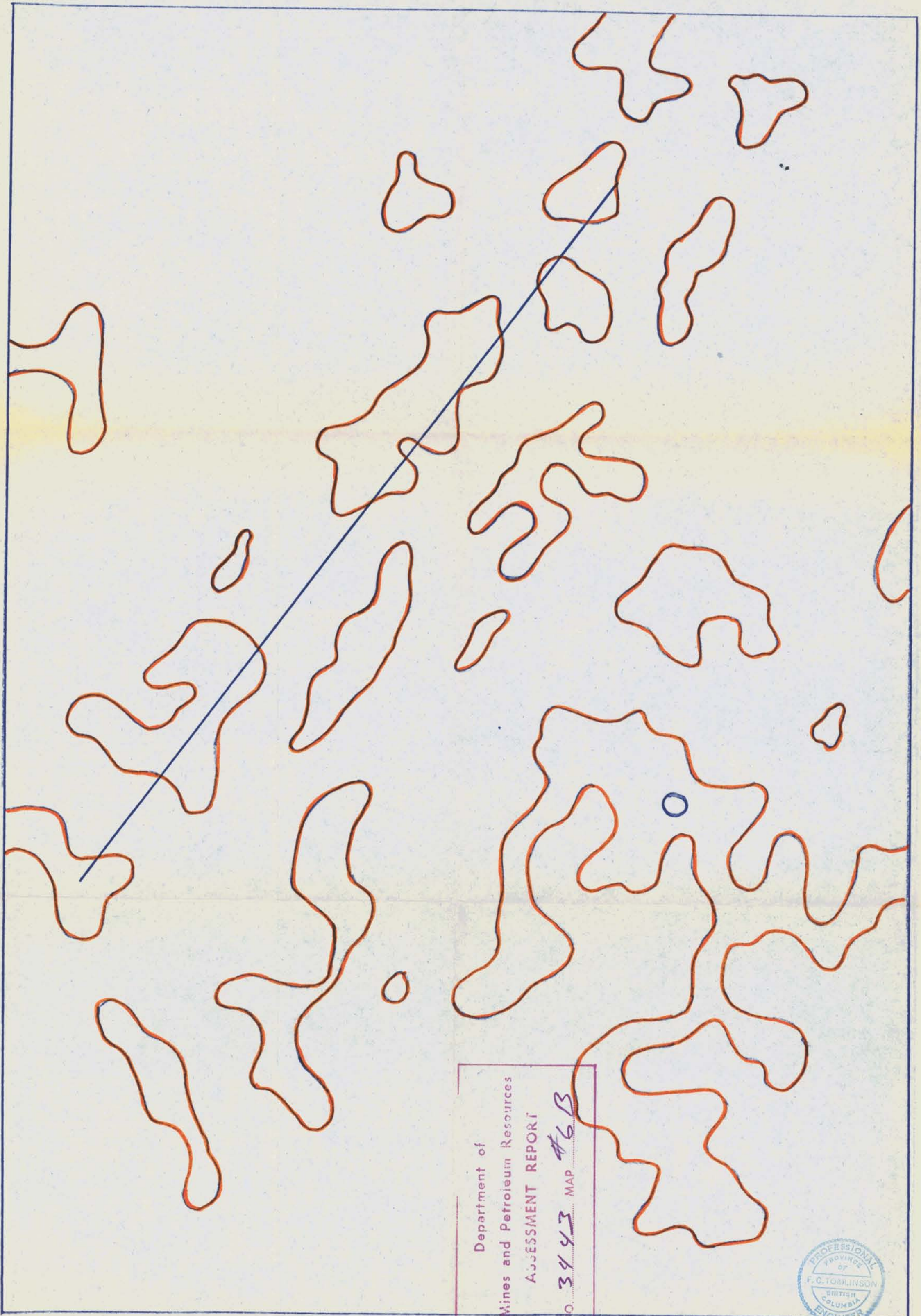
TRAVERSE	A	-----
	B	-----
	C	-----
	D	-----

TO ACCOMPANY REPORT BY
F.C. TOMLINSON P. ENG.
JULY, 1971.

F. C. Tomlinson P. Eng.



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E.M. SURVEY

CYPRE RIVER ANOMALY MAP
AIRBORN ELECTROMAGNETIC

To accompany Report by
F.C. Tomlinson P. Eng. July 1971



MAGNETOMETER MAP

AIRBORNE GEOPHYSICAL RECONNAISSANCE
 'CYPRE RIVER' AREA BC.
 1" TO 1000'

ALTITUDE: 500'
 RUNS: 500' APART
 RECORDED READINGS @ 300' INTERVALS
 MARCH 16, 1971
 PLOTTED AT 100 GAMMA CONTOUR INTERVAL
 To accompany Report by

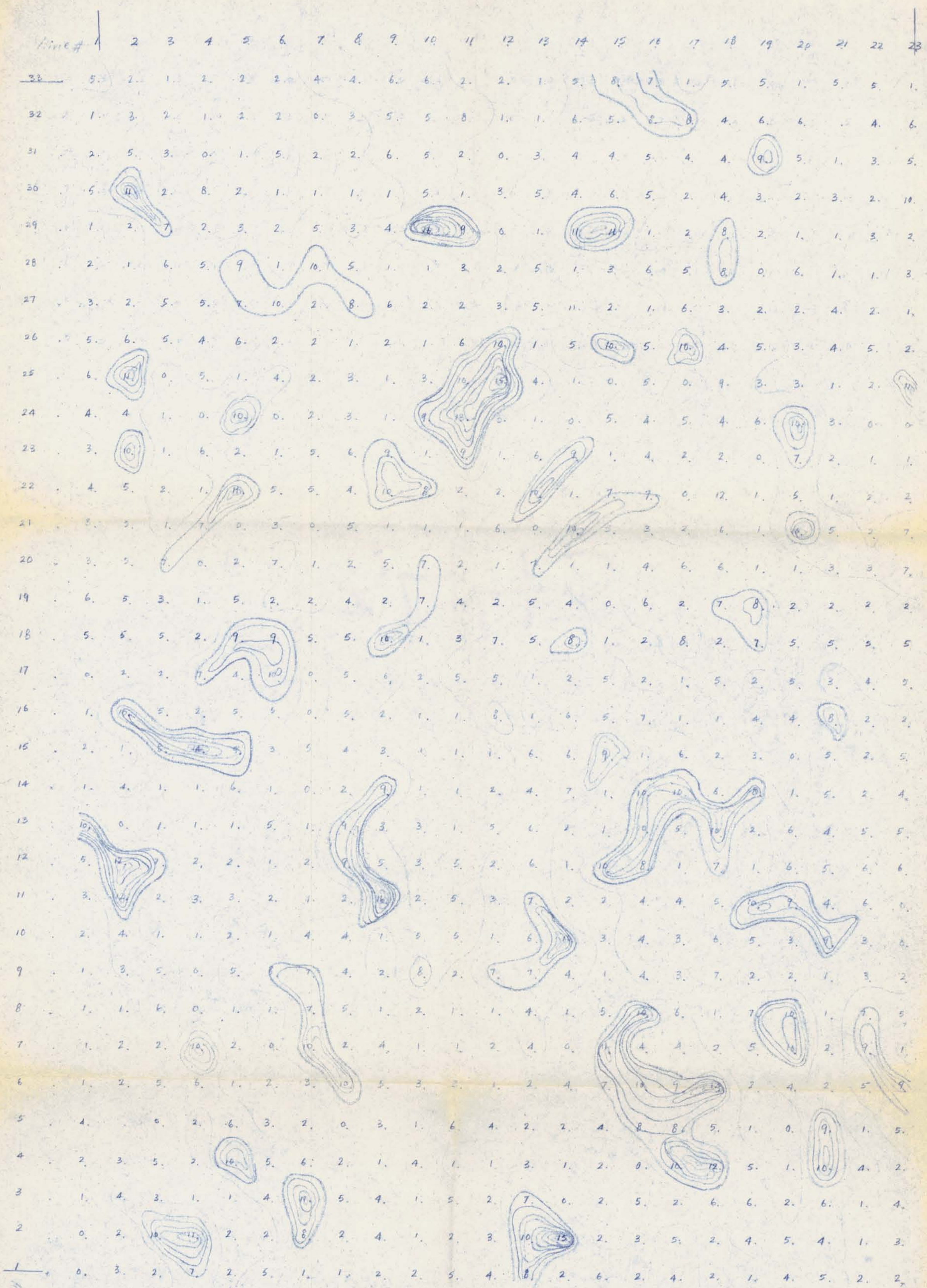
Department of *F.H. Tomlinson P. Eng.*
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 3443 MAP #10



MAGNETOMETER UNITS OF 100 GAMMAS

CONTENTS
 (-5 to 0) GAMMAS
 (0 to 6)
 (>7)





ELECTROMAGNETIC MAP

AIRBORNE GEOPHYSICAL RECONNAISSANCE
 'CYPRE RIVER' AREA, B.C.
 1" TO 1,000ft

M-6A

ALTITUDE: 500^H
 RUNS 500' APART
 RECORDED READINGS @ 500 INTERVALS
 MARCH 16, 1971

CONTOUR INTERVAL 1 MICRO AMP
 To accompany Report by
 F. Le Jamieson
 July 1971

ELECTROMAGNETIC UNITS OF 1 MICRO AMPS

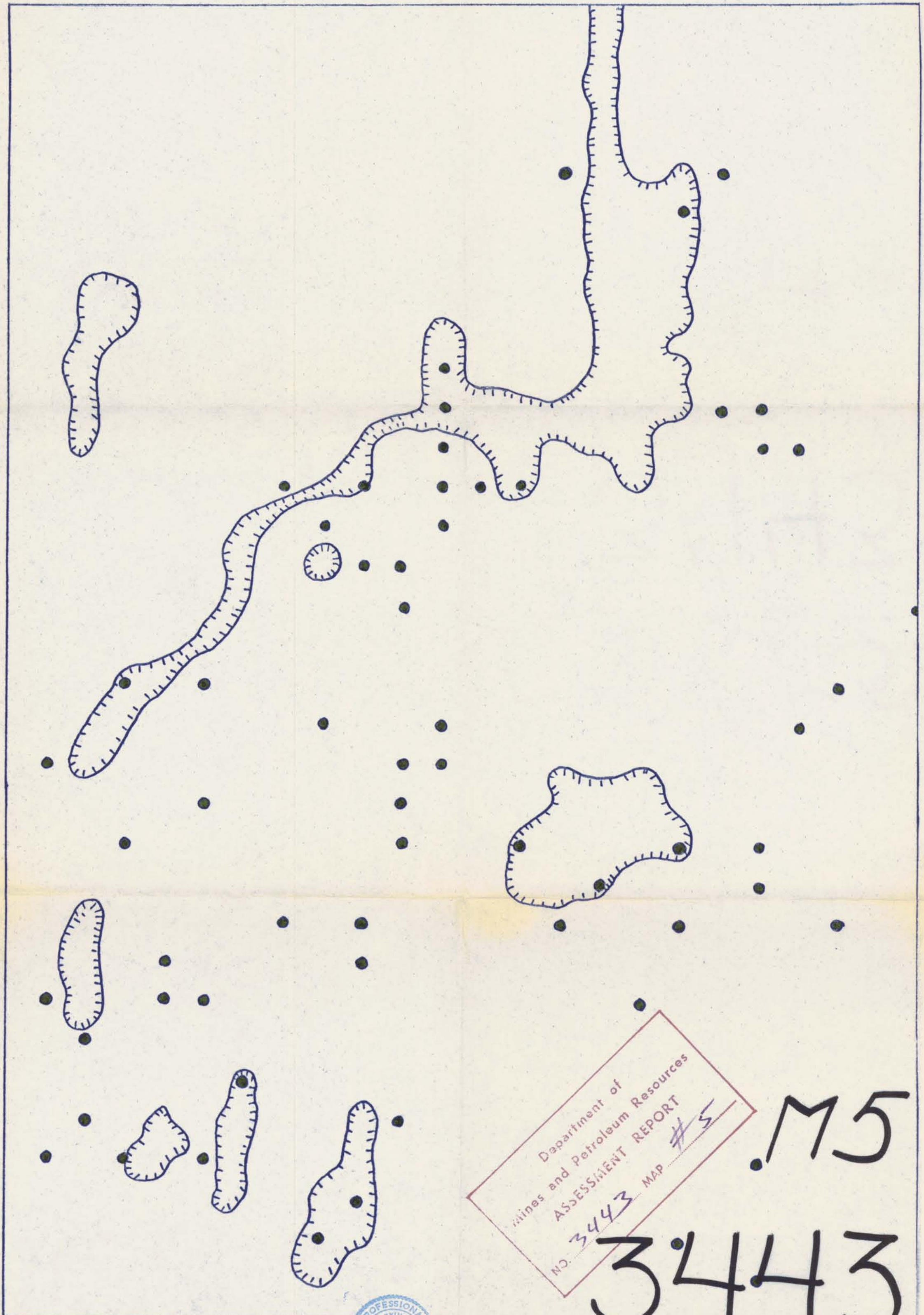
CONTOURS

- (0-3) MICRO AMPS
- (3-7)
- (>7)

3443



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 MAP M-6A



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 ASSESSMENT REPORT
 NO. 3443 MAP # 5

M5

3443

AIRBORNE MAGNETOMETER

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 July 1971



LOW MAG



RADIOACTIVITY

Department of
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ASSESSMENT REPORT
NO. 3443 MAP #8

THUNDER VALLEY MINES LTD
CYPRESS BAY, B.C.
MAGNETOMETER SURVEY
SHARPE PMF-3 FLUXGATE
READINGS EVERY 100-150'
READINGS IN GAMMAS (1000)
SCALE 1:500
SURVEY - F.C. TOMLINSON P. ENG
JULY, 1971
*I, accompanying Report by
F.C. Tomlinson P. Eng*

