

MAGNETIC AND ELECTROMAGNETIC  
GEOPHYSICAL SURVEYS

DUB AND ZOT MINERAL CLAIM GROUPS

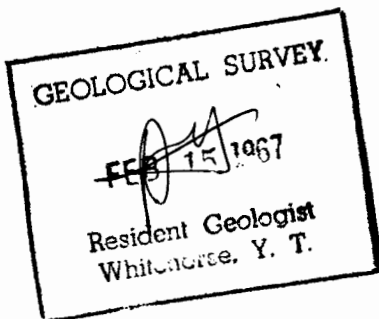
Fyre Lake Area  
Watson Lake Mining Division  
Yukon Territory

Long. 130° 30' West  
Lat. 61° 15' North

by

John S. Brock  
ATLAS EXPLORATIONS LIMITED

June 23 - July 30, 1966



<p>This report has been examined by the Geological Evaluation Unit. Approved as to technical worth by:</p> <p><i>[Signature]</i> RESIDENT GEOLOGIST</p> <p>Approved as to cost in the amount of: \$ 6940.00</p> <p><i>[Signature]</i> RESIDENT MINING ENGINEER</p> <p>Accepted as representation work under Section 53(4) Yukon Quartz Mining Act.</p> <p><i>[Signature]</i> COMMISSIONER OF YUKON</p>
--

61° 15'

130° 30'



KEY MAP FYRE LAKE AREA  
 Grid Location: DUB Mineral Claims

ATLAS EXPLORATIONS LIMITED

0 5000 ft.



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LIST OF CLAIMS

<u>Claim No.</u>	<u>Grant Nos.</u>	<u>Date Recorded</u>
DUB 1 - 48	89964 - 90011	January 31, 1966
49 - 118	Y7411 - Y7480	April 27, 1966
119 - 148	Y13173 - Y13202	July 4, 1966
149 - 154	Y13662 - Y13667	August 30, 1966
155 - 164	Y13507 - Y13516	August 10, 1966
165 - 167	Y13756 - Y13758	September 9, 1966
ZOT 11 - 12	Y13517 - Y13518	August 10, 1966

# ATLAS EXPLORATIONS LIMITED

(N. P. L.)

330 MARINE BUILDING  
355 BURRARD STREET  
VANCOUVER 1, B.C.

## INTRODUCTION

Under an agreement with G. E. "Bud" Stephens, prospector, the DUB Mineral Claims 1 to 48, were acquired by Atlas Explorations Limited. The DUB Claim Group covered a known zone of copper mineralization that had previously been held and developed by Cassiar Asbestos Corporation Ltd. It was proposed by Atlas Explorations that the potential of the area be first assessed by airborne electromagnetic and magnetic methods. During March of 1966, Lockwood Survey Corporation was contracted to work under the direction of Atlas Explorations in conducting an extensive airborne geophysical survey over the claims and surrounding area. Encouraging results were obtained and additional staking was carried out, thus enlarging the DUB group to 121 mineral claims. Commencing in July 1966 a ground follow-up crew consisting of geologic, geophysical and geochemical survey personnel, were placed on the property to detail airborne geophysical anomalies and obtain new results over the known copper showing. The purpose of the ground surveys was to correlate the known mineralization and

airborne anomalies with geophysics and geochemistry in the hopes that possible extensions and new targets for diamond drilling could be outlined. Survey data obtained appeared to warrant drilling and a drill program was started in October of 1966.

#### LOCATION AND ACCESS

The Fyre Lake properties are located at latitude  $61^{\circ}15'$  North and longitude  $130^{\circ}30'$  West on the slopes facing the eastern shores of the lake. Fyre Lake is situated at the mid-point of the North River, shown on the Finlayson Lake topographic sheet. The anomalies investigated are described as the DUB I and DUB II anomalies. The DUB I is at an elevation of 3500 feet and approximately 1200 feet east of the southeastern shores of Fyre Lake. The DUB II is some four miles east of Fyre Lake and at an elevation of 4800 feet.

Access to the properties was made with the aid of aircraft only. Fyre Lake is suitable for all aircraft equipped with floats and skiis. For investigation of the DUB I zone a base camp was established on the eastern shore of the lake. Another camp was set up on location for examination of the DUB II; this camp was usually serviced by helicopter but access could also be made by trail from the lake. Work on each of the properties was administered from field offices at Ross River, 82 miles northwest of Fyre Lake; constant

communication was kept with the camp by means of single sideband radio. All expediting of supplies was done from Ross River.

#### METHOD OF SURVEY

Instruments Used: For the magnetometer survey, a Jalander 46-65 magnetometer was used, the instrument is hand held and measures the vertical magnetic component by use of an oil-dampened fluxgate which automatically levels itself in the vertical direction. The range of this instrument is 10 to 250,000 gammas over five sensitivity ranges, the lowest being 10 gammas per scale division. The instrument is of light weight and readings can be obtained quickly, a conversion factor is necessary before gamma values can be determined.

For the electromagnetic survey, a Crone JEM dual frequency unit was employed. The Crone unit is of the inductive type and may be either used as a horizontal or vertical loop apparatus. Measurements are made of the resultant dip angle of the field and the width of null or out of phase component. It is designed to be operated with a maximum coil spread of 300 feet on frequencies of 480 and 1800 cycles per second with no inter-connecting cables. The effective depth penetration is 300 feet for a horizontal conductor with maximum coil spread (no skin effect allowance)

and 100 feet for a vertical conductor. The effective lateral coverage is a direct function of the spread under ideal conditions. The equipment was chosen in order to give reliable information on the attitude and configuration of a conductor, the physical properties of the host rock, dimensions of the conductor and results free from error due to topographic relief.

Survey Method:

Linecutting: All grids designed for ground geophysical and geochemical surveys were laid out using eight hundred foot line spacing with one hundred foot station intervals. Over areas of interest four hundred foot spacing was used and two hundred foot line spacing was used over areas requiring detailed information. Central base lines were used for control, all cross lines were surveyed by picket and chain methods. Linecutters were hired from the native settlement of Ross River, survey control was checked by the party chief.

Magnetometer Survey: Prior to the actual magnetometer survey, readings were taken along the central base line at cross line intersection points. These stations were looped and re-read every hour as a means of controlling drift and diurnal variations. With base stations of an established value serving as reference points for each cross line portion of the survey, a rapid and precise check was kept on magnetic

variations and the entire survey was thus kept on a relative basis during day to day operation. Each cross line was read with re-checks at the base station within every hour, this method provided an internal control for detecting diurnal and drift variations. The survey was done by one operator using the same instrument.

Electromagnetic Survey: All surveys were run with horizontal loop configuration and 300 foot coil spacing in order that highest response could be obtained from flat-lying sulphide bodies. Both 1800 and 480 cycles per second readings were taken at each station. The coil configuration was not adaptable to conditions of conductive overburden and maximum response from such was expected. All traverses were by the "in line method" and done on the same grid as the magnetometer and geochemical surveys. In some cases shorter spacing was adopted for better resolution of shallow conductors, for the same reason line spacing was reduced to 200 feet over areas of interest. The two man EM crew did all their ground work in coincidence with the magnetometer and soil sampling crew.

Treatment of Data:

Magnetic Results: Magnetic results were corrected for diurnal and drift each night by the field operator. The final gamma values were then plotted on a grid plan using scale of 400 feet to 1 inch. This data was presented to the party chief

who profiled and contoured the data on overlay material in order that he could remain familiar with day to day results and progress of the survey, direct its course and have results available for comparison with electromagnetic and geological-geochemical data. Field plots of this information were forwarded to the base office at Ross River at the end of the survey for final plotting and examination on a scale of 1 inch to 200 feet. Magnetic data is presented in this report on such maps showing gamma values-profiles and contoured results (see Appendix). All maps show major topographic features and locations of mineral claim posts.

Electromagnetic Results: All results as derived in the field were plotted each night by the EM operators on a grid plan using a scale of 1 inch to 400 feet. High and low frequency results were presented to the party chief for inspection and profiling in order that this data be compared with the other surveys and the course of the electromagnetic survey be directed on a daily basis. Plots of readings and profiles were sent to Ross River base at the end of the survey for final plotting and compilation on grid plans similar to those used for the magnetic maps. Electromagnetic data is presented in this report showing values-profiles (1800 and 480 cps), and a contour map of high frequency dip angles.

GEOLOGY

The geology of the Fyre Lake groups is identical to that of Grass Lakes, consisting of a general sequence of quartz-biotite-chlorite schists that strike northwestward and dip gently to the northeast. At Fyre Lake the staked schist band is about six miles in width, lying between sizable stocks of intrusive granodiorite both to the northeast and southwest. It is postulated that a major fault or fracture system underlies the valley of Fyre Lake, through the middle of the claim groups, and is a branch of the Tintina system five miles to the southwest. Generally speaking the geological setting at Fyre Lake is identical to that at Vangorda-Dynasty, with airborne anomalies occurring within the favoured schist formation, adjacent to intrusive granodiorite bodies. A pyrite-chalcopryrite showing was staked by Cassiar Asbestos Corporation Ltd. in 1960. This surface showing consists of a 50 ft. wide northwesterly trending pyritic zone that contains narrow chalcopryrite bands along it. The showing was trenched and drilled by that company in 1961. Drilling indicated that the zone was a replaced flat layer of quartzose schist approximately 30 feet in thickness, conformable with the schists, with the upper 20 feet comprised of pyrite and quartz and the lower 10 feet comprised of pyrite, chalcopryrite, pyrrhotite and some sphalerite disseminated in quartz schist. The sulphide zone as determined by Cassiar Asbestos is about 400 feet long and

150 feet wide. Drilling of another anomaly 600 feet to the west revealed a similar sulphide body.

From a photo-geologic interpretation by W. Walker, the following geology was outlined:

The general geology of the area largely includes the Fyre Lake area. Clastic schists with minor limestone, clastic gneisses, and ultrabasic rocks all of indeterminate age, and greenstones of Mississippian or earlier age are described. In some areas on the photographs one can readily see the bedding of the schists and gneisses and more lumpy terrain of the volcanics. Commonly, however, glacial scouring and plucking, talus slopes and soil creep, and glacial deposits make both structural interpretation and rock typing difficult. No fold pattern, for example, becomes apparent.

Within the clastic metasediments there are commonly both sharp and vaguely defined fault traces. The latter are regarded as old faults, later annealed.

Most of the larger valleys appear to be fault controlled, and lineation in the recent deposits is regarded as evidence of recent movement or differential deposition and compaction on bedrock faults.

One may anticipate that many faults in the area

were initiated by horizontal (folding) pressures, and re-used when the acidic and basic rocks were intruded.

The deposit northeast of Fyre Lake is in clastic metasediments at the west end of a granitic intrusive. There are no major faults in the vicinity, but minor faults are numerous.

A comparison with this and the Anvil Mountain base metal area is readily drawn. Both are underlain principally by clastic meta-sediments intruded by granite, on the northeast side of the Tintina fault. In the Anvil Mountains most deposits are in the meta-sediments near the intersections of N.W. and N.E. faults, principally along a fault 5 miles northwest of the Tintina. The North River - Fyre Lake structure and intersecting N.E. faults provide a strictly comparable environment.

Faulting, rather than rock type, is considered most likely to control ore deposition. Most major fault intersections are covered by alluvium, and airborne geophysics provides the most convenient exploration approach.

Geologic mapping has been carried out in the area by Atlas Explorations but, at the time this report was compiled, a report on the geology as done by Atlas was not available.

GEOPHYSICAL OBSERVATIONS

DUB I Anomaly:

Over the DUB I grid two electromagnetic anomalies of note were outlined. The strongest conductive expression is approximately 1200 feet in length and strikes roughly northwesterly between lines 24S and 12S. The anomaly is expressed by negative resultant dip angles on both the 1800 and 480 cps frequencies, the maximum width of electromagnetic disturbance is 600 feet, and the anomaly attains a peak value of  $-28^{\circ}$ . The second anomaly is elongate in nature, south-east of the strongest response, and strikes roughly northwest for 1800 feet between lines 28S and 48S. The maximum width of electromagnetic disturbance is 300 feet where the response attains a peak value of  $-22^{\circ}$ , as recorded by high frequency resultant dip angles.

One major and isolated magnetic anomaly was delineated over the grid. This anomaly is approximately 2100 feet in length and strikes northwest between lines 4S and 28S at an average of station 13E. The anomaly has a maximum width of 200 feet and reaches a peak value of 4300 gammas above background at 12E line 16S. Eight other localized magnetic anomalies were noted, each is over 500 gammas above background and although most have been obtained from "single-line" values, the general trend seems to be to the northwest.

DUB II Anomaly:

Electromagnetic results in the DUB II area appear to be of limited significance due to apparent interference from extreme topography within the grid area. Irregular electromagnetic response on a relative line to line basis is noted throughout most of the survey area. Contouring of results such as these is difficult and does not give a true picture of the conductive formations.

Examination of contoured high frequency (1800 cps) resultant dip angles shows a major conductive zone striking east southeast for some 2000 feet. This zone strikes across the control portion of the DUB II survey grid and covers the main areas of mineralization as found over the old Cassiar Asbestos grid. Within the supposed conductive zone, a total of 5 isolated anomalies of negative angle response over  $8^{\circ}$  have been delineated; these have peak values at lines 16S - 28E, 8S - 21E, 8S stations 13 - 16E, 4S stations 9 - 12E and 4N - 9E. The negative dips for each anomaly usually occur over 200 to 300 feet and peak values are found on one line only.

Another major zone of electromagnetic response is found over the southern portions of the DUB II grid. This anomaly is considered to be of secondary importance but is somewhat similar to the above-mentioned conductive zone in that isolated peaks of negative resultant dip angles occur

throughout its areal extent. The major anomaly of this nature reaches a value of  $-20^{\circ}$  at 32S - 7E. Other isolated responses within the zone are found at lines 32S - 2 + 50W, 20S - 10E, 24S - 9 + 50W, 16S - 11W and 8S - 1W.

A well defined major magnetic anomaly strikes northwest for approximately 3000 feet across the upper control portion of the DUB II grid and across the old Cassiar Asbestos grid. This anomaly is comprised of a series of "highs", the major one reaching a peak value of 2000 gammas between lines 8N - 7E and 2S - 13E. The second "high" is en echelon to the first but to the south, it reaches a similar peak value between lines 2S - 8N and 10S - 14N. A third major magnetic high is found at the eastern extremity of the magnetic belt; it has not been closed off due to extreme topography preventing continuation of the survey. A number of single line anomalous magnetic readings were obtained; these "thumbprint anomalies" are over 500 gammas in magnetic intensity and occur at 6S - 16E, 6S - 19E, 2N - 25E, 4N - 6E, 6N - 6E, 6N - 4E. Further to the northwest and on strike with the zone of strong magnetics, lie several weaker highs of irregular nature. Three magnetic closures in this region are of lower intensity (600 gamma maximum) and not as broad (maximum 200 feet width) as the other magnetics in question.

INTERPRETATION OF GEOPHYSICAL RESULTS

DUB I ANOMALY

From the airborne results as presented in Appendices (iv) and (v), an isolated in phase anomaly of 9 ppm coincides with the major electromagnetic expression as delineated by the follow-up ground survey. The magnetic anomaly as outlined by the ground survey does not coincide with the airborne survey but it is assumed that the ground delineation shows the higher portion of the northwesterly trending airborne magnetic belt through the grid area. No outcrop was found in the survey area but the presence of chalcopyrite float near the anomaly and a strong copper geochemical anomaly coincident with the geophysical anomaly led to detailed investigation of the possible economic significance of the geophysical results.

The best interpretation of the geophysical results in this case is provided with the aid of compiled profile studies of the magnetics and high and low frequency electromagnetics (see Appendix ii). Selected lines, 16S and 20S, were taken as being representative of the strongest and largest conductive expression between lines 12S and 24S. This is the anomaly that is thought to be of major economic significance in the D II area. The magnetic profiles of line 20S are typical of a causative dyke-like structure dipping to the west with a top relatively close to surface (within 50 feet).

The electromagnetic profiles, however, are typical of a conductive body with an easterly dip. A probable explanation of these results can be derived from an examination of line 20S as a whole. It is noted that the lower amplitude magnetic response at 4E could be significant of a steeply dipping easterly structure and that electromagnetic response is virtually insignificant. In view of the seemingly contradictory geophysical interpretations in relation to plausible geologic circumstances, it is thought that the magnetic peaks at 4S and 13S are representative of east and west fault contacts of a more magnetic structure. The high amplitude magnetics could be due to a combination of susceptibility change and fault-contact expression. At 13S the electromagnetic anomaly response may be obtained from such a gouge filled shear zone. The geologic explanation of the geophysical data here does not detract from economic possibilities of mineralization as previously discovered mineralization in the same area appears to be associated with faulting. The profile shown for line 40S is a representation of the southern end of the anomalous zone, electromagnetic response is limited and magnetic results signify a deeper lying (up to 150 ft.) structure that dips about  $45^{\circ}$  to the west. This section of the anomaly could possibly represent the magnetic structure at depth (plunging to the south) where it

has fault contacts too deep for electromagnetic penetration.

Other localized magnetic anomalies are all apparently near surface (approximately 100 feet) and dip steeply to the west. These anomalies are not coincident with electromagnetic response.

#### DUB II ANOMALY

The airborne geophysical results over the DUB II grid area are not complete due to the presence of extreme topography which prevented adequate coverage of the ground with the helicopter-borne geophysical instruments. The location of known airborne geophysical anomalies in this area (Appendix iv and v) is dubious due to incomplete topographic control data. Correlation of airborne-ground geophysical data is therefore not reliable although the magnetics, the majority of which are incomplete over the DUB II grid, do correspond in trend direction with the ground magnetic information. Aero-electromagnetic results are also incomplete over the DUB II grid area but the electromagnetic anomaly to the east is coincident with magnetics and is duplicated on the ground.

The interpretation of geophysical data in this area is aided by diamond drill information as provided by Cassiar Asbestos Corporation and Atlas Explorations Limited. The magnetics generally follow the northwest trending geologic formations and cut obliquely across the direction of glacial

ice-flow out of the cirque area, thus suggesting glacial moraine is rather shallow and that magnetics are controlled by bedrock beneath the glacial deposits. The isolated anomalous highs may be in a particular horizon of this formation or aligned along a northwest trending fault. The major zone of magnetics between line 2S and 8N appears to have definite association with mineralization as proved by diamond drilling. It therefore appears that a fault structure may run parallel to the western boundary of the anomaly thus separating the mineralization from the schists to the west. Lines 2N, 4N and 7N, profiles of which are shown in Appendix iii, show strong magnetics east of the baseline, each magnetic anomaly has some electromagnetic response coincident with it but in varying forms. Line 4N shows a coincident electromagnetic configuration similar to that caused by flat lying conductors, with strong magnetics indicating a possible fault structure to the west of the causative magnetic body. All mineralized drill intersections had some magnetic expression and the best intersections had electromagnetic coincidences. Matching of profiles with known drill results does not give a constant geophysical picture and it has been concluded that the mineralization is of a complex nature but is represented on an overall basis by magnetics. The magnetics when examined in detail are

confusing due to local complexities which probably should be ignored at this stage.

CONCLUSIONS AND RECOMMENDATIONS

As diamond drilling has proven that there is a definite correlation between the mineralization and geophysical results over the DUB II grid, it would appear that the same set of circumstances may prevail over the DUB I zone. Geologic structure, alignment of airborne anomalies, geochemical support and repetition of geophysical characteristics between the two areas suggest that diamond drilling is warranted to test the DUB I. Enough geophysical work has been done over the two grids but follow-up of other airborne anomalies within the DUB claim group is probably worthwhile, emphasis should be given to geologic and geochemical investigation of the claims as well as continued electromagnetic and magnetic surveys.

PHOTO GEOLOGIC REPORT

FYRE LAKE AREA

GEOLOGY  
FYRE LAKE AREA  
YUKON TERRITORY  
ATLAS EXPLORATIONS LIMITED

-by-

W. WALKER, F.G.A.C.

Chew-Walker Associates,  
164 Nipigon Avenue,  
Willowdale, Ontario.

28th. February, 1966

## GEOLOGY

### FYRE LAKE AREA, YUKON TERRITORY

by

W. WALKER, F.G.A.C.

#### SUMMARY

Metamorphic and granitic rocks lie to the north-east of the Tintina fault. No continuity or pattern is evident.

The geology is similar to that in the Anvil Mountains area where mineral deposits are located at the intersection of N.E. and N.W. faults. In the Fyre Lake area similar intersections are masked by alluvium, and the area may best be explored by airborne geophysics.

## INTRODUCTION

The Fyre Lake area is one of several selected for exploration by Atlas. The present photogeologic study is based on published maps of the area.

### The area, location, and access.

Fyre Lake has geographic coordinates Lat.  $61^{\circ}12'N$ , Long.  $130^{\circ}35' W$ . A deposit about 3 miles northeast of the lake is of immediate interest. N.T.S. sheets 105G include the area. The area is within the Pelly Mountains of southeastern Yukon, and photo-coverage studied extends from Grass Lakes, in the northwest, to the North River near its junction with the Black, in the southeast. The Watson Lake to Ross River road passes the west shore of Frances Lake 30 miles to the northeast. Watson Lake, 100 air miles to the southeast, is near mile 635 on the Alaska Highway, and Ross River is 80 air miles to the northwest.

### Previous work

The mineralisation has yet to be recorded in government reports, and no unpublished data are available to the writer other than the location of the deposit northeast of Fyre Lake.

The area was first mapped as part of the regional study of the southern Yukon at the 4 mile scale begun by Bostock in the 1930's. Sheet 105G, the Finlayson Lake area, G.S.C. Map 8-1960, was mapped by J.O. Wheeler in 1958 and 1959, accompanied in the

second year by L.H. Green and J.A. Roddick. The data were incorporated in the 1963 geological compilation of the Yukon and N.W.T., G.S.C. Map 30-1963, and in Gabrielse and Wheeler's G.S.C. Paper 60-24, "Tectonic Framework of Southern Yukon and Northwestern British Columbia (1961)". Aeromagnetic coverage is provided by Maps 1360G, 1361G, 1378G and 1379G, at the one mile scale, and 7006G, the 4 mile compilation.

#### GENERAL GEOLOGY

Describing the Finlayson Lake area, Wheeler et. al. note: "The dominant structure in the map-area is the Tintina fault (which just touches the southwest corner of the Fyre Lake area). It separates two distinctively different geological terranes, the folded and faulted but relatively unmetamorphosed strata to the southwest and the metamorphic and granitic rocks to the northeast. As the fault (or fault zone) is approached from either side, steeper dips and more shearing, parallel with the trench, are visible".

"The metamorphic rocks northeast of the Tintina Valley dip steeply near the valley, but elsewhere, rather gently large recumbent folds such as that exposed on the west face of peak 7721 may be common in this belt. Northwest trends, parallel with the Tintina fault, predominate except in the area of schist and granitic gneisses between North River and Peak 7184

(just east of Fyre Lake sheet 8) where east and north-east trends are common".

#### LOCAL GEOLOGY

The metamorphic rocks described under general geology are largely included in the Fyre Lake area.

Clastic schists with minor limestone (A), clastic gneisses (C), and ultrabasic rocks (D) all of indeterminate age, and greenstones (6a) of Mississippian (?) or earlier age are described. In some areas on the photographs one can readily see the bedding of the schists and gneisses and more lumpy terrain of the volcanics. Commonly, however, glacial scouring and plucking, talus slopes and soil creep, and glacial deposits make both structural interpretation and rock typing difficult. No fold pattern for example, becomes apparent.

Within the clastic metasediments there are commonly both sharp and vaguely defined fault traces. The latter are regarded as old faults, later annealed.

Most of the larger valleys appear to be fault controlled, and lineation in the recent deposits is regarded as evidence of recent movement or differential deposition and compaction on bedrock faults.

One may anticipate that many faults in the area were initiated by horizontal (folding) pressures, and re-used when the acidic and basic rocks were intruded.

ECONOMIC GEOLOGY

The deposit northeast of Fyre Lake is in clastic metasediments at the west end of a granitic intrusive. There are no major faults in the vicinity, but minor faults are numerous.

A comparison with this and the Anvil Mountain base metal area is readily drawn. Both are underlain principally by clastic metasediments intruded by granite, on the northeast side of the Tintina fault. In the Anvil Mountains most deposits are in the metasediments near the intersections of N.W. and N.E. faults, principally along a fault 5 miles northeast of the Tintina. The North River-Fyre Lake structure and intersecting N.E. faults provide a strictly comparable environment.

Faulting rather than rock type is considered most likely to control ore deposition. Most major fault intersections are covered by alluvium, and airborne geophysics provides the most convenient exploration approach.

Respectfully submitted,  
CHEW-WALKER ASSOCIATES,

*W. Walker*  
W. WALKER, F.G.A.C.

WW:S

DUB I ANOMALY


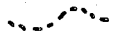
Geophysical Profiles;  
Magnetic and Electromagnetic..

Scale: 1" = 200'

Fig. (i)	Line	20+00S	0 - 20E
Fig. (ii)	Line	16+00S	0 - 20E
Fig. (iii)	Line	40+00S	0 - 18E

DUB I ANOMALY

Line 20 S

PROFILES: EM; 1800 cps:   
480 cps: 

Mag 

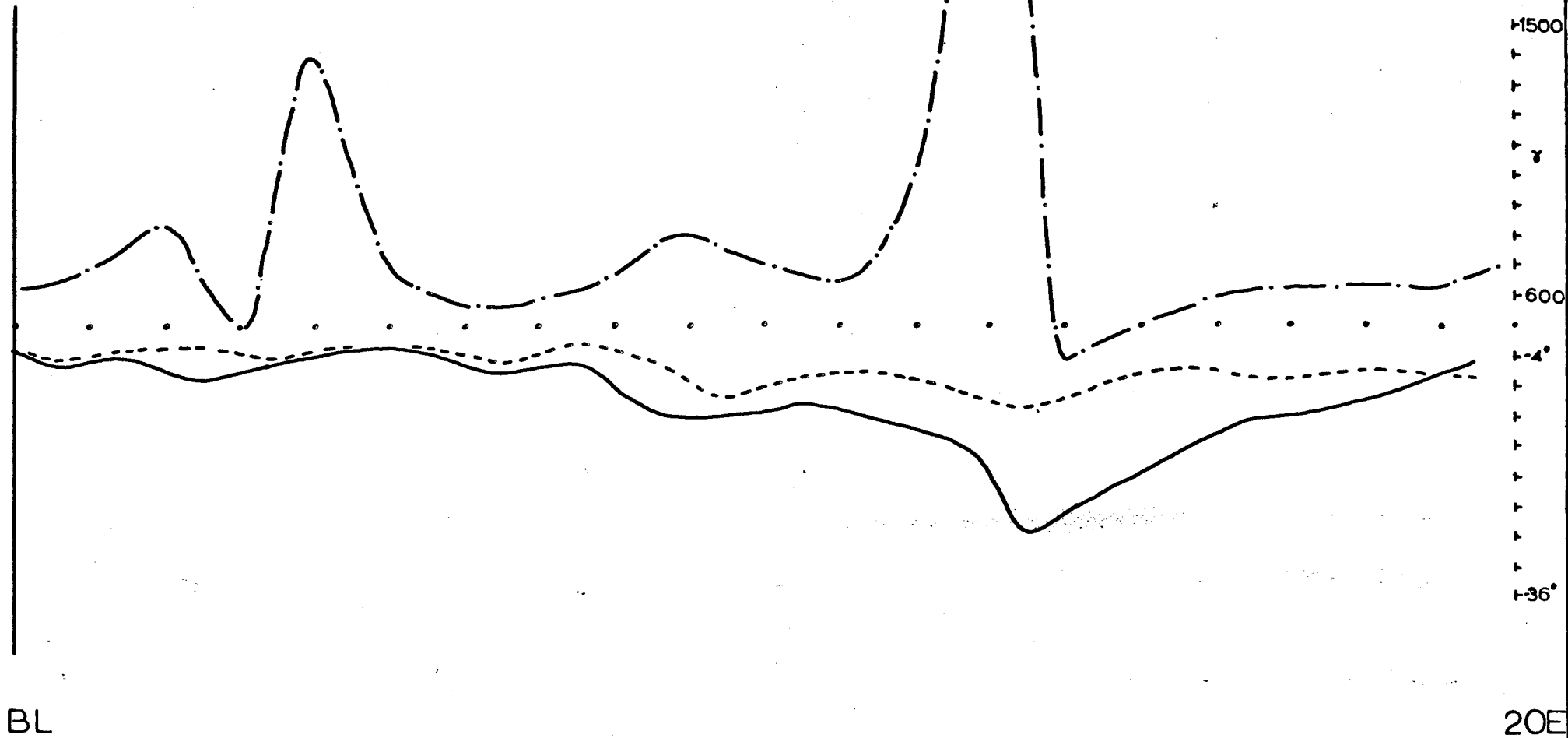





Fig (1)

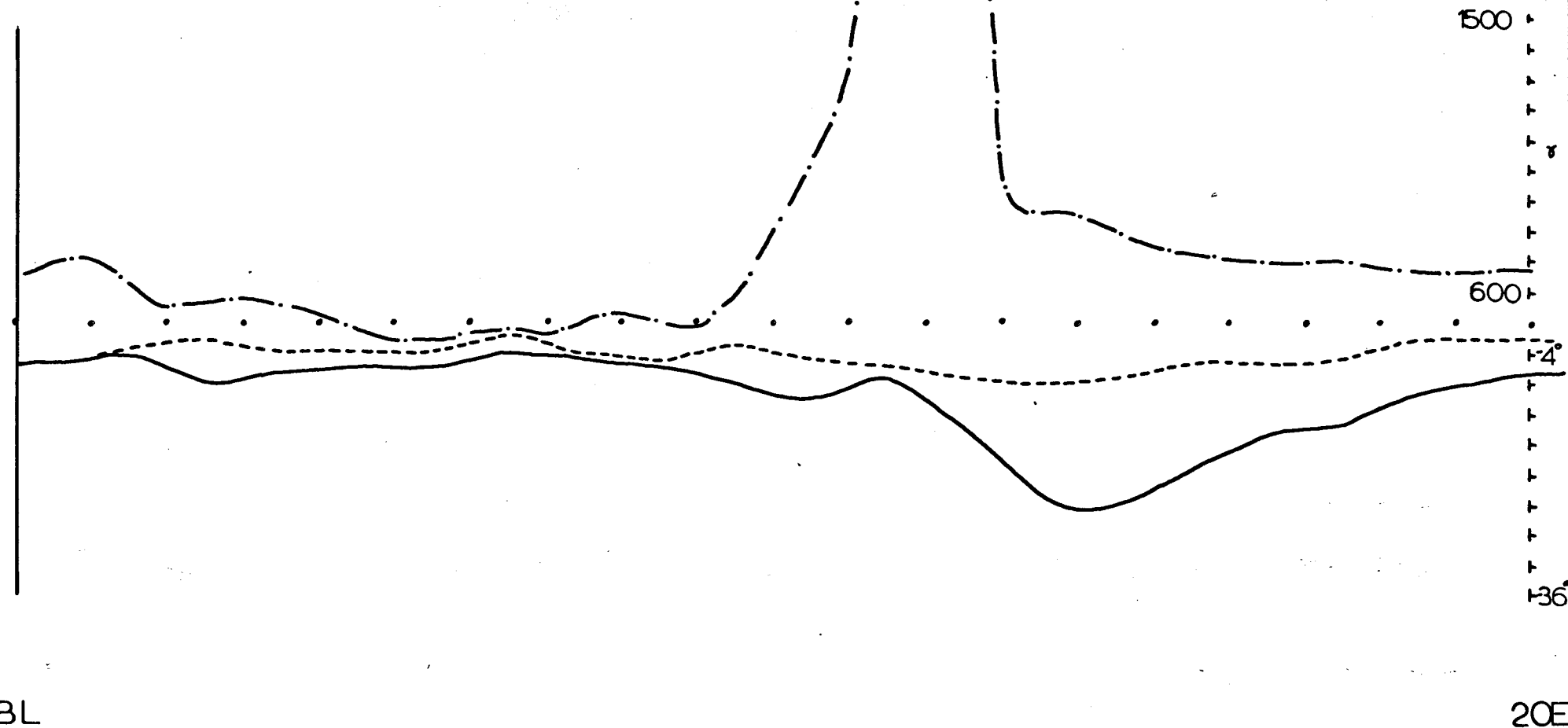
BL

20E

DUB I ANOMALY

Line 16 S

PROFILES: EM: 1800 cps:   
480 cps:   
Mag 



(II) SIN

BL

20E

DUB I ANOMALY

Line 40 S

PROFILES E M 1800 cps

480 cps

Mag

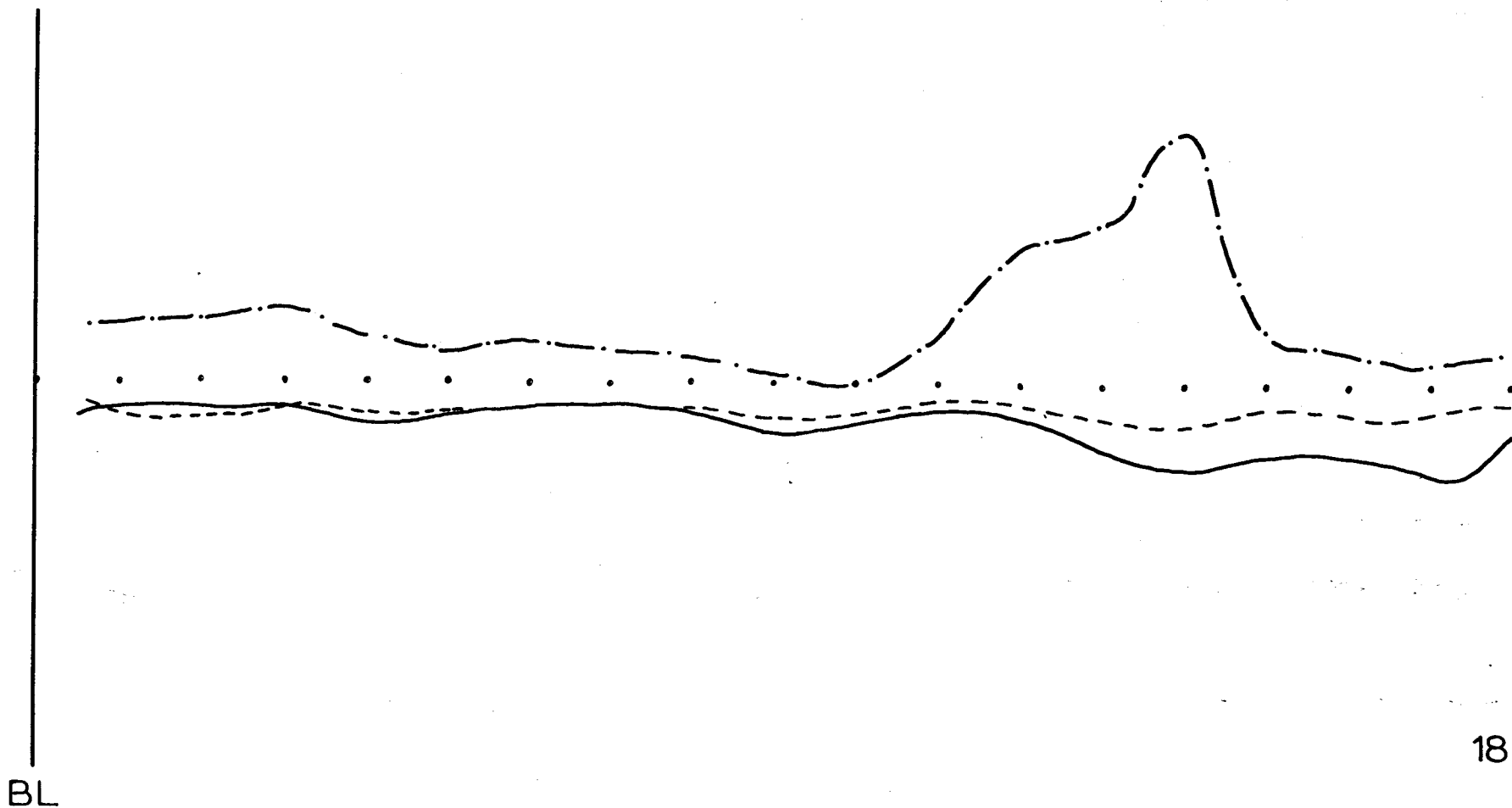


Fig (111)

18E

DUB II ANOMALY

Geophysical Profiles;  
Magnetic and Electromagnetic.

Scale: 1" = 200'

Fig. (i)	Line 6+00N	0 - 20E
Fig. (ii)	Line 4+00N	0 - 20E
Fig. (iii)	Line 2+00N	0 - 20E
Fig. (iv)	Line 2+00S	0 - 20E
Fig. (v)	Line 4+00S	0 - 20E
Fig. (vi)	Line 8+00S	0 - 20E
Fig. (vii)	Line 10+00S	4E- 24E

DUB 2 ANOMALY

Line 6 N

PROFILES: EM: 1800 cps: ~

480 cps: - · - · -

Mag: ~

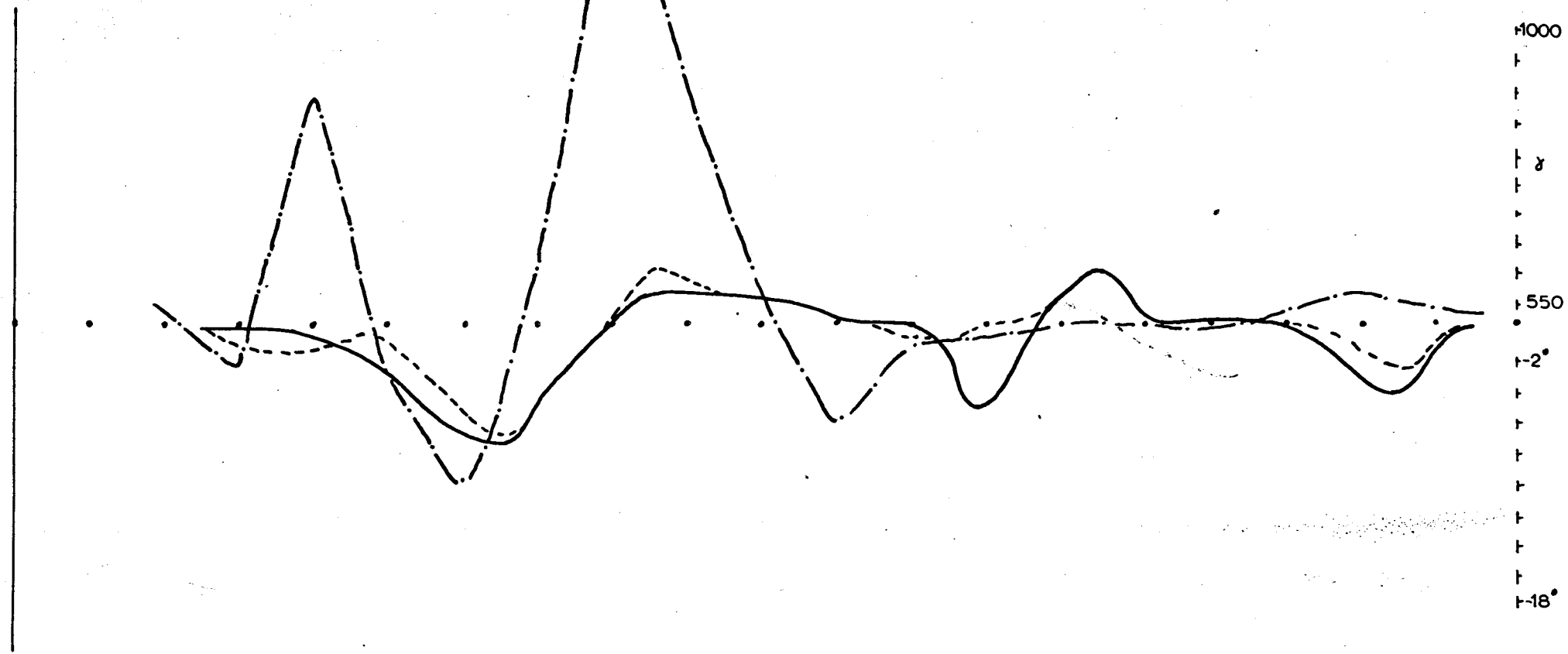


Fig. (1)

BL

20E

DUB 2 ANOMALY

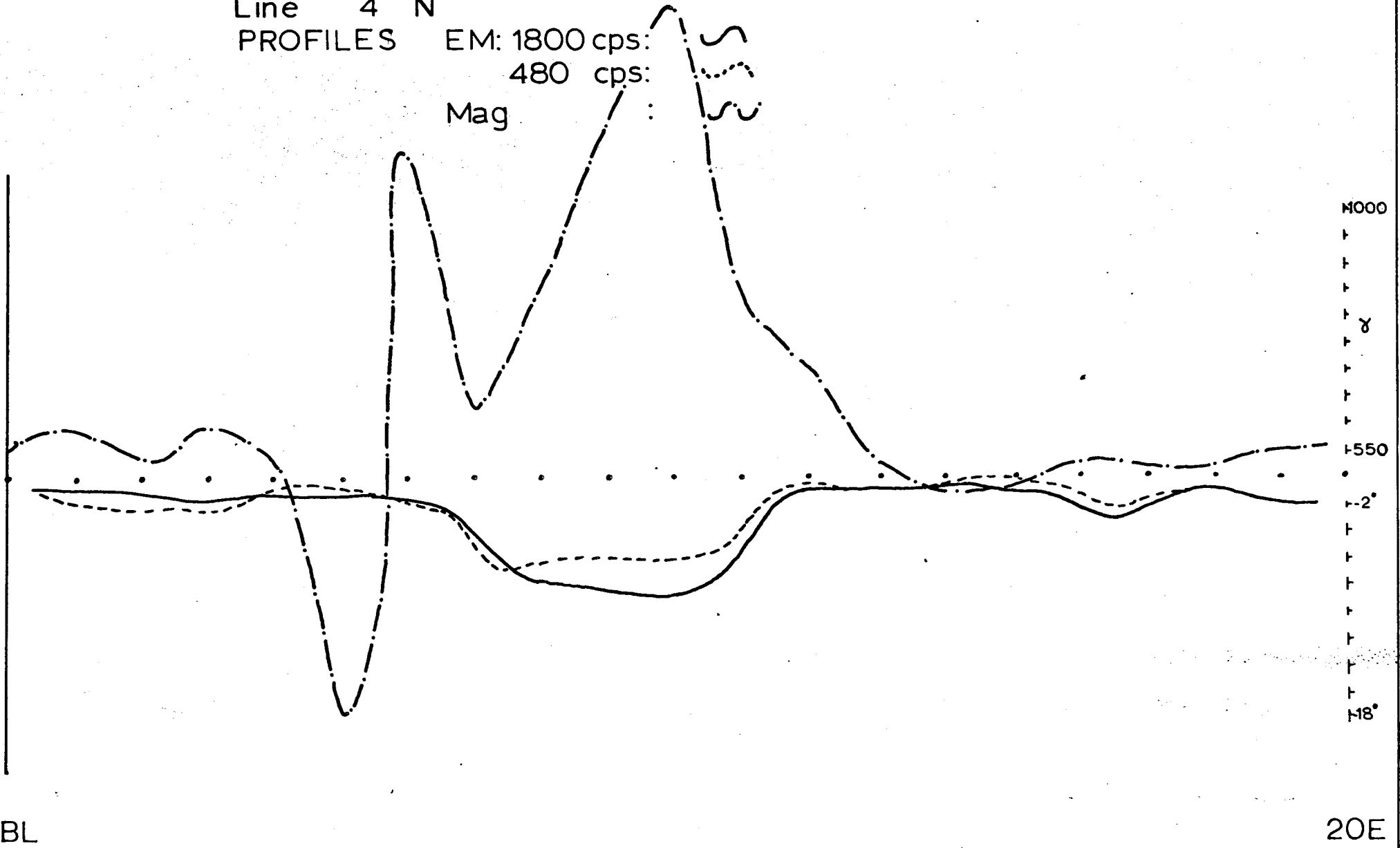
Line 4 N

PROFILES

EM: 1800 cps:

480 cps:

Mag



1800  
1550  
18

BL

20E

Fig. (11)

DUB 2 ANOMALY

Line 2 N

PROFILES: EM: 1800 cps: ~

480 cps: - - -

Mag ~

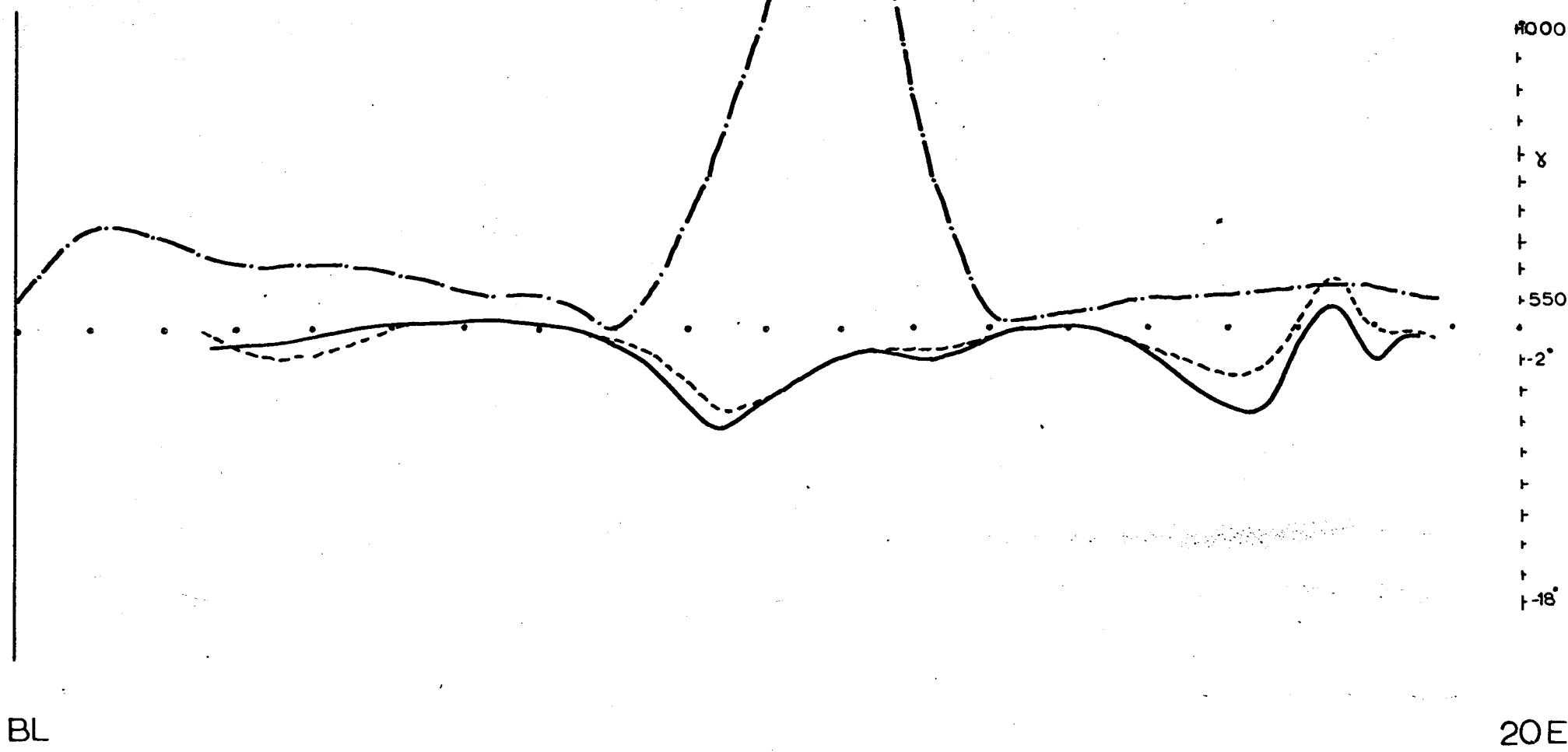


Fig. (III)

BL

20E

DUB 2 ANOMALY

Line 2 S

PROFILES: EM: 1800 cps: ~  
          480 cps: ~  
          Mag: ~

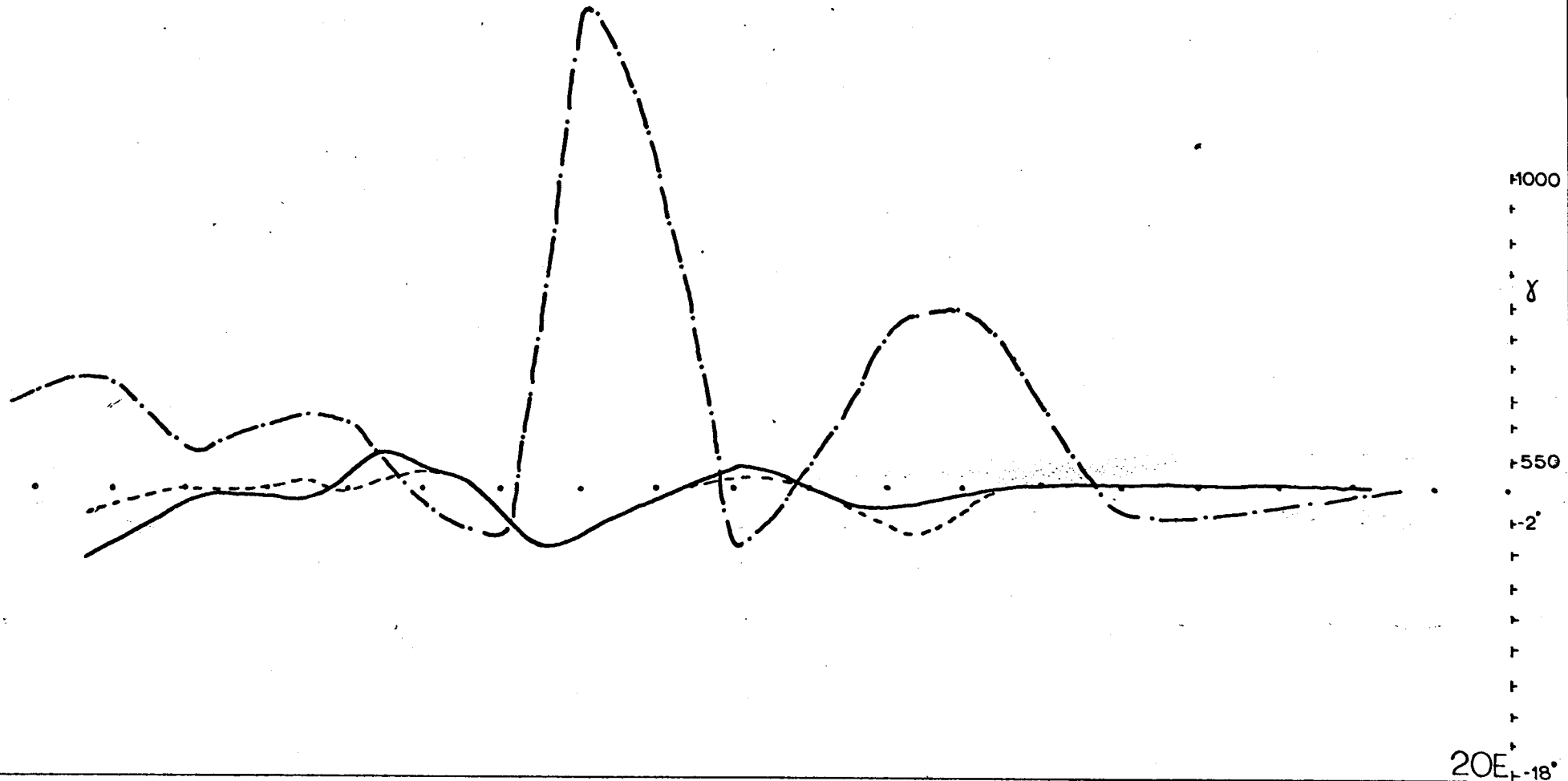


Fig. (iv)

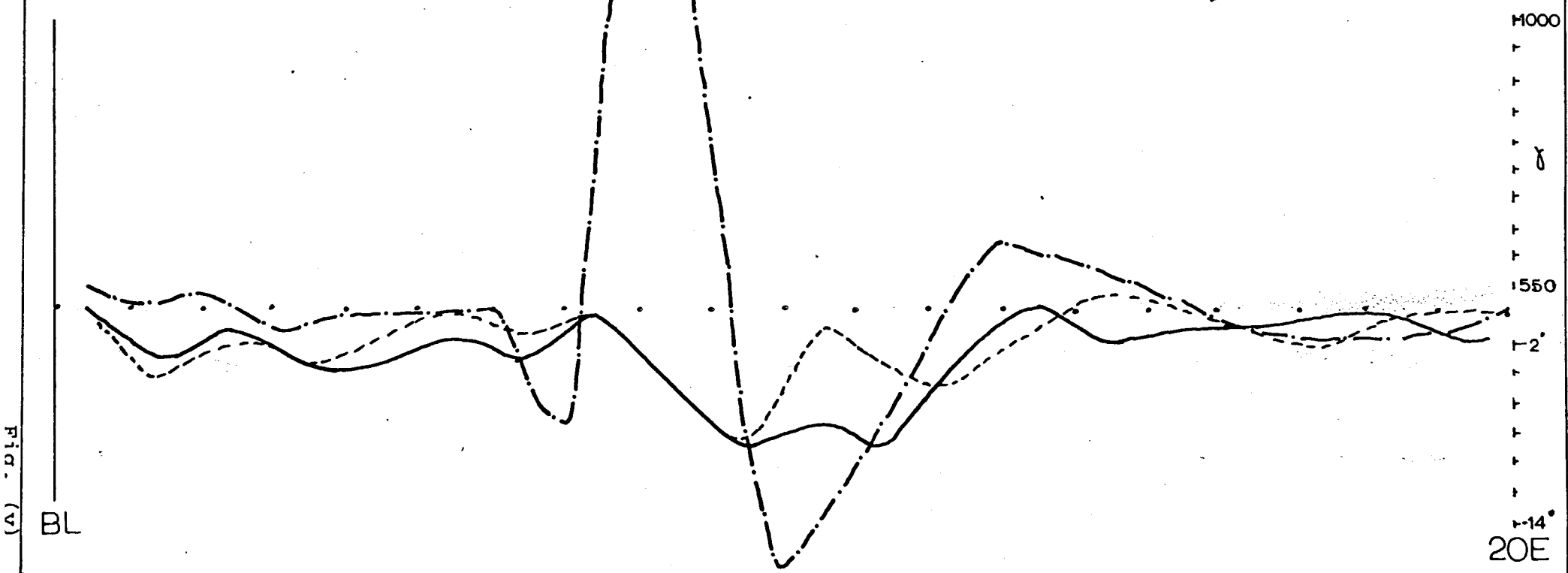
BL

20E-18

DUB 2 ANOMALY

Line 4 S

PROFILES: EM: 1800 cps: ~  
          480 cps: - - -  
          Mag:     ~



DUB 2 ANOMALY

Line 8 S

PROFILES: EM 1800 cps: ~

480 cps: -.-

Mag

~

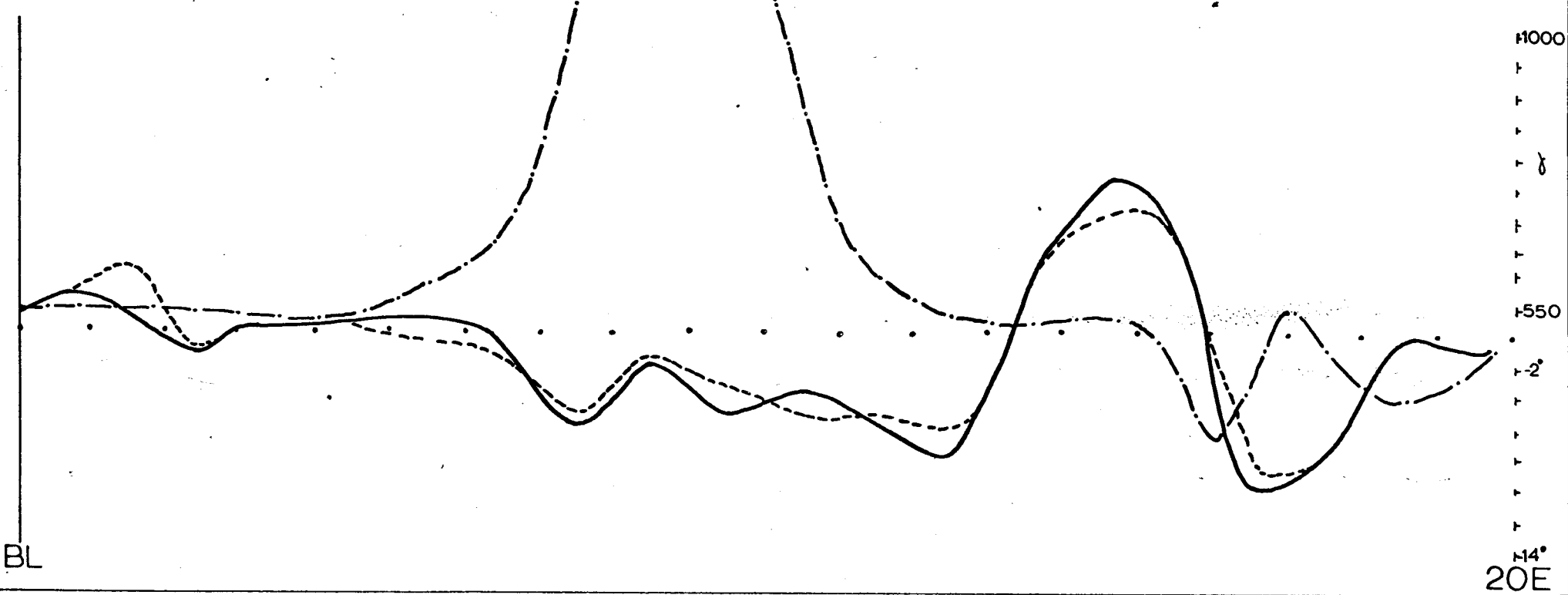


Fig. (VI)

14°  
20E

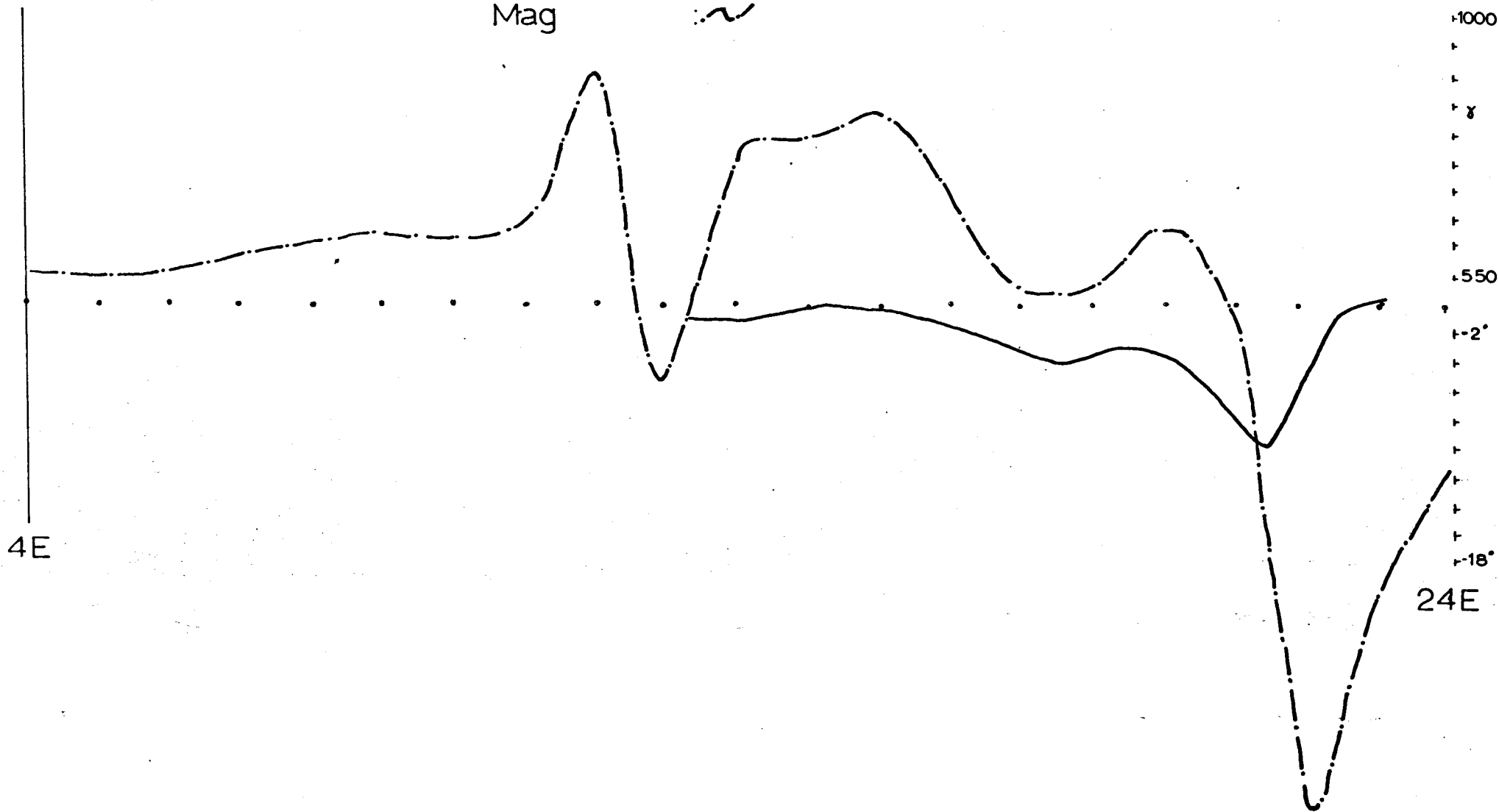
DUB 2 ANOMALY

Line 10 S

PROFILES: EM: 1800 cps: ~

480 cps: ~

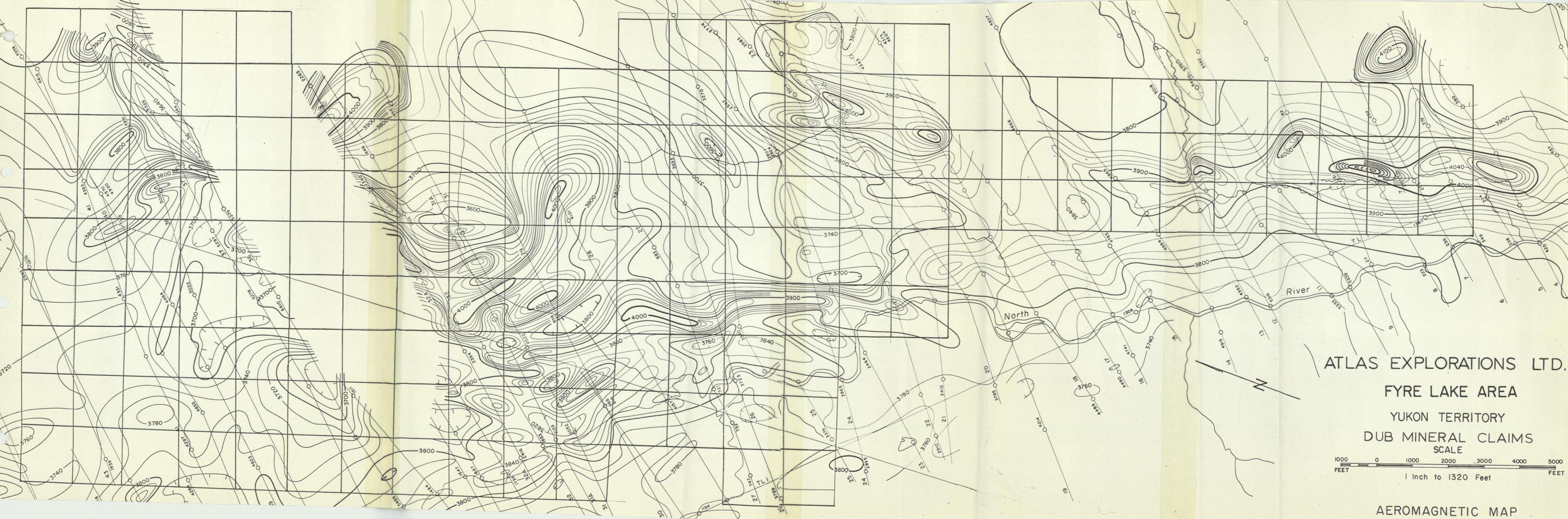
Mag ~



FYRE LAKE AREA

DUB Mineral Claims

Aeromagnetic Map



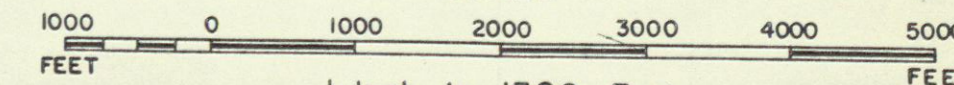
ATLAS EXPLORATIONS LTD.

FYRE LAKE AREA

YUKON TERRITORY

DUB MINERAL CLAIMS

SCALE



AEROMAGNETIC MAP

FYRE LAKE AREA

DUB Mineral Claims

Aero-Electromagnetic Map



DUB 2 GRID

DUB 1 GRID

North

River

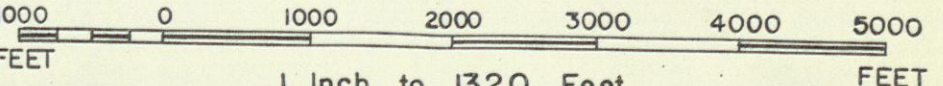
ATLAS EXPLORATIONS LTD.

FYRE LAKE AREA

YUKON TERRITORY

DUB MINERAL CLAIMS

SCALE



1 Inch to 1320 Feet

ELECTROMAGNETIC MAP



TELEPHONE 685-4331

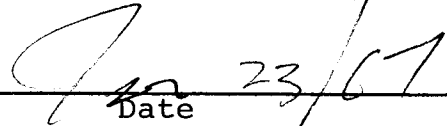

**ATLAS EXPLORATIONS LIMITED**

(N. P. L.)

330 MARINE BUILDING  
355 BARRARD STREET  
VANCOUVER 1, B.C.

## AFFIDAVIT SUPPORTING SUMMARY OF COSTS:

I, John S. Brock, Assistant Exploration Manager of Atlas Explorations Limited, of Ross River, Yukon Territory, do hereby state that to the best of my knowledge and belief the statement of costs as presented in this report "Magnetic and Electromagnetic Geophysical Surveys - DUB and ZOT Mineral Claim Groups" (Appendix vi) is both correct and true.

  
\_\_\_\_\_  
John S. Brock  
\_\_\_\_\_  
Date  
\_\_\_\_\_  
A Commissioner of Oaths  
in and for the Yukon  
Territory

FYRE LAKE AREA  
DUB Mineral Claims

LOG OF DAILY PROGRESS  
AS PER PARTY CHIEF WEEKLY REPORTS

PROJECT... FYRE LAKE...

ATLAS EXPLORATION LIMITED

PERIOD

FROM... June 28 1966...  
TO... July 26 1966...CLAIM GROUP... ASH DUB 1; ANT (AXE)PARTY CHIEF... PHIL NIELSEN

PERSONNEL	POSITION	TIME	WAGE
<u>Doug Lima</u>	<u>Cook</u>	<u>7 days</u>	<u>\$450 per month</u>
<u>Joe Clark</u>	<u>Linecutter</u>	<u>7 days</u>	<u>\$140 per week</u>
<u>Jim Robinson</u>	<u>"</u>	<u>7 days</u>	<u>\$140 "</u>
<u>Mac Lodge</u>	<u>"</u>	<u>7 days</u>	<u>\$140 "</u>
<u>Sam Smorch</u>	<u>"</u>	<u>7 days</u>	<u>\$140 "</u>
<u>Bill Barclay</u>	<u>Mag Op.</u>	<u>7 days</u>	<u>\$450 per month</u>
<u>Peter Segal</u>	<u>E.M. Op.</u>	<u>7 days</u>	<u>\$495 "</u>
<u>Ted Littlefoot</u>	<u>"</u>	<u>7 days</u>	<u>\$400 per month</u>
<u>Pat Brownward</u>	<u>Geophysicist</u>	<u>7 days</u>	<u>\$375 per month</u>
<u>Jim Adley-Brown</u>	<u>"</u>	<u>2 days</u>	

Day Of Week	HELICOPTER		FIXED WING		LINECUTTING		GEOCHEM.		GEOPHYSICS			GENERAL
	Job	Hrs.	Job	Hrs.	Lines	Feet	Lines	No. Samples Taken	E.M. Lines	MAG. Lines	Feet	
Mon. 20	—	—	—	—	L 94 L 4 B.L. 3	1200 2000 600	RECON. ON CREEK ON ANT GP.	SILT SAMPLES 20-ANT	L 8 L 12 L 90 L 99	ASH DUB	1000	LINECUTTERS ON DUB. E.M. ON DUB - TED & PHIL. GEOCHEM & GEOLOGY ON ANT. MAG. ON ASH.
Tues. 21	—	—	—	—	L 28, 12, 10 L 32, 16, 7 + 24	0 = 9000 = 3900	L 84 L 80 L 76	ASH 115	—	ASH	9000	MAG CAUGHT UP ON ASH. LINECUTTERS ON ASH (W) STILL UNDER WATER BETWEEN L 77 AND L 36
Wed. 22	PICKED UP T.M. SADDLER	30 MINS FROM DROWN	FROM OLD GOLD	—	STARTED B.L. of ANT. G. GROUP.	—	—	—	—	—	—	STORMS ALL DAY. VERY LITTLE WORK DONE. TIM WENT OUT TO ROSS BY CHOPPER
Thurs. 23	—	—	BEAVER SUPPLIES	FROM ROSS BACK TO ROSS	B.L. 4500 L 0 2900 L 8 1800 ANT GP.	—	DUB 1 BASE-LINE.	DUB 1 38	—	DUB 1	1000	LINECUTTERS ON ANT GP. STILL STORMY. SLOW PROGRESS.
Fri. 24	—	—	—	ANT	L 40 W 2000 L 24 C 900 L 40 E 2000 L 32 2000	—	—	DUB 1 96	L 16 L 20 L 24 L 28	DUB 1 DUB	5000	" " "
Sat. 25	—	—	—	ANT	L 32 2000 L 29 3100 L 0 E 3000 L 32 1500	—	—	DUB 1 100	L 32 L 36	DUB 2 DUB	3000	LINECUTTERS FINISHED ANT USING OC X-LINES. STILL RAINING.
Sun. 26	—	—	—	DUB 1	L 16 3600 L 0 2000 L 98 2000	—	—	DUB 1 50	L 4 L 0	DUB 1 DUB	3000	ALL WORK ON DUB 1 E.M. VIS. MORE DAMN! RAIN. VERY DEPRESSING!
TOTAL		1 HR 30 MINS		2 HRS		48,200		419	27,500		1700	WATSON LAKE BEAVER LANDED. MEN SAID THEY WERE SHEEP HUNTERS - VERY SUSPICIOUS!

\* Peter Segal with Jim Sadtler Browns. 2900  
Jim worked 1 day on Ant Group (this week) 900

32700  
1700

SUMMARY - FINALLY RECD GOOD MACHETE'S. WORK HAMPRED BY 7 DAYS OF CONTINUAL THUNDER STORMS.

PROJECT F.X. LAKE.....

ATLAS EXPLORATION LIMITED

PERIOD From June 27.....  
To July 3.....

CLAIM GROUP ASH. DUB 1. ANT.

PARTY CHIEF PHIL NIELSEN

PERSONNEL	POSITION	TIME	WAGE
<u>DOUG TIZYA</u>	<u>COOK.</u>	<u>Days</u>	<u>\$450 per month.</u>
<u>JOE EITZEL</u>	<u>LINECUTTER</u>	"	<u>\$140 per week</u>
<u>TIM ATKINSON</u>	"	"	<u>\$190 " "</u>
<u>MAC LAQUE</u>	"	"	<u>\$190 " "</u>
<u>SAM SMARCH</u>	"	"	<u>\$140 " "</u>
<u>BILL BARCLAY</u>	<u>MAG. OP.</u>	"	<u>\$450 per month</u>
<u>* PETER TEGART</u>	<u>E.M. OP.</u>	<u>2 days here.</u>	<u>\$775 " "</u>
<u>TED LIGHTFOOT</u>	"	"	<u>\$400 " "</u>
<u>PAT BROWNSWORD</u>	<u>GEOCHEM OP.</u>	"	<u>\$375 " "</u>

Day Of Week	HELICOPTER		FIXED WING		LINECUTTING		GEOCHEM.		GEOPHYSICS				GENERAL		
	Job	Hrs.	Job	Hrs.	Lines	Feet	Lines	No. Samples Taken	E.M.		MAG.				
Mon. 27	-	-	-	-	STAKED CLAIMS	DUB GP.	L94 L98 DUB 1	50			-	-	-	-	MORE RAIN. MAG. OP. PLOTTED RESULTS. I TOOK LINECUTTERS STAKING SO NO E.M. DONE.
Tues. 28	-	-	-	-	ASHGP L36W L40W L44W	1700 1800 2400	68 69, 44 70, 44 71, 48	90	ASH	L0 L8 L16 L24	15,600	B.L. L0,60 L16,124 L31	7000	ANT	LINECUTTERS + GEOCHEM ON ASH E.M. + MAG ON ANT GP.
Wed. 29	-	-	-	-	L95, L58 L58, L60 L64	9200 6200	L012, 16, 20 24, 23, 22 30, 40	101	ASH	PLOTTED E.M.	-	L33 L40 L8	7400	ANT	LINECUTTERS + GEOCHEM ON ASH. MAG ON ANT ANT GP TEGART, TED BUILT DECK.
Thurs. 30	-	-	-	-	L4+L12	5000 ANT	SLOUGH AREA.	20	ASH.	L32 L40	8000	-	-	-	MAG. PLOTTED RESULTS. GEOCHEM ROUGH GOING OUT TO SWAMP. LINECUTTING ON ASH FINISHED.
Fri. July 31	-	-	SUPPLIES + JOHN BROCK (WENT OUT SAME TRIP)	1 AN FROM ROSS	900 + Rain ANT	4500	L94, L48	90	ASH.	-	-	-	-	-	GEOCHEM FINISHED ON ASH.
Sat. 32	-	-	BROUGHT IN VIC WRIGHT + PETER TEGART	1 W. FROM ROSS.	L52 + L56 DUB 3	4000	-	-	-	ANT	13000	PLOTTED RESULTS OF	ASH.	SOIL SAMPLER ON E.M. MAG FINISHED ANT GP.	
Sun. 3	-	-	-	-	CUT WOOD TOOK IT	EASY	DUB 2	40	-	ANT DUB 2	8000 5200	ASH	7000	PETE TEGART BACK ON E.M. ALL LINECUTTING FINISHED ON ASH; ANT + DUB 2	
TOTAL	-	-	-	2 HRS	-	25000	-	381	-	87	33000	-	33000	PREPARING FOR CAMP MOVE TO DUB GROUP UP THE HILL	

14  
 9  
 360  
 16  
 11  
 15  
 12  
 4700 - Joe's Cim.  
 4500  
 16100  
 1500  
 20000  
 71100  
 33000  
 33000  
 VIC WRIGHT STAYING UNTIL TUES SUN 5. CAME IN SAT JULY 2nd

PROJECT PAYE LAKE

ATEMS EXPLORATIC LIMITED

PERIOD

From MON. JULY 7/66  
To SUN. JULY 10/66

CLAIM GROUP ASH + DUB

PARTY CHIEF PHIL NIELSEN

PERSONNEL	POSITION	TIME	WAGE
<u>DOUG TIZYA</u>	<u>COOK</u>	<u>#450</u>	<u>16950/mo.</u>
<u>JOE ETZEL</u>	<u>LINECUTTER</u>	<u>#20/day</u>	<u>B 140/wk</u>
<u>TIM ATKINSON</u>	<u>"</u>	<u>#20/day</u>	<u>B 140/wk</u>
<u>MACK LADUE</u>	<u>"</u>	<u>"</u>	<u>B 140/wk</u>
<u>SAM SMARNA</u>	<u>"</u>	<u>"</u>	<u>B 140/wk</u>
<u>BILL BARCLAY</u>	<u>MAG. OP.</u>	<u>#450/mo</u>	<u>B 950/mo</u>
<u>PIE TEGART</u>	<u>E.M. OP.</u>	<u>#475/mo</u>	<u>B 975/mo</u>
<u>TED LIGHTFOOT</u>	<u>E.M. O.P.</u>	<u>#400/mo</u>	<u>B 900/mo</u>
<u>PAT BROWN SWCD.</u>	<u>GEOCHEM OP.</u>	<u>#375/mo</u>	<u>B 375/mo</u>

Day of Week	HELICOPTER		FIXED WING		LINECUTTING		GEOCHEM.		GEOPHYSICS				GENERAL	
	Job	Hrs.	Job	Hrs.	Lines	Feet	Lines	No. Samples Taken	E.M.		MAG.			
									Lines	Ft.	Lines	Ft.		
Mon. 9.	-	-	-	-	-	-	-	-	-	ASH	12,000	ASH	10,000	LINECUTTERS + I CHECKED CLAIMS + NEW CAMP LOCATION. GEOCHEM OP. RECORDED FACT. RUST STAIN ON MTN.
Tues. 5	-	-	SUPPLIES + GAS FOR CHOPPER.	2 TRIPS FROM ROSS. WENT TO OLD ONE TRIP.	-	-	-	PLOTTED GEOCHEM RESULTS - ASH.	ASH	8,000	ASH	8,000	PREPARED FOR CAMP MOVE. E.M. + MAG. ON ASH SWAMP.	
Wed. 6	CAMP MOVE UP TO OLD CASSIAR PROP.	APPROX. 4 HRS.	-	-	-	-	-	DUB 2	ASH	10,000	DUB 2	-	E.M. FINISHED ASH GP. REST OF CREW HELPED MOVE CAMP.	
Thurs. 7	-	-	-	-	LINECUTTERS MADE TENT FRAME FOR COOK HOUSE, ETC.	-	-	DUB 2	DUB 2	-	DUB 2	-	STUDENTS + I LOCATED CLAIM POSTS + DRILL HOLES. CLAIMS ALL BALLED-UP. LINECUTTER WORKED ON CAMP.	
Fri. 8	-	-	-	-	B.L. - NORTH - 2800'	-	-	DUB 2	DUB 2	-	DUB 2	-	SAM SMARNA ILL. E.M. CREW CLEANED UP OLD CAMP + PRINTED BOAT. MAG + GEOCHEM OPS. PLOT. I SET UP BASELINE + TURNED CROSS-LINES.	
Sat. 9	-	-	-	-	LON 3200	-	-	-	-	-	ASH	-	E.M. CREW SOIL SAMPLER CUT LINE. MOST OF CREW SICK - POSSIBLY FOOD POISONING.	
Sun. 10	SUPPLIES + T.S. - BROWN. RETURN FROM ROSS.	2 1/2 HRS.	-	-	L2A 2800	-	-	PLOTTED	DUB 2	12,000	DUB 2	12,000	SADLER - BROWN ARRIVED.	
TOTAL		6 1/2 HRS.		2 HRS.	73	1000				3,975		25,000		

28  
36  
64 16000 - MAG

16  
25  
41

PROJECT. FYRE LAKE

ATLAS EXPLORATIC LIMITED

PERIOD

From July 11/6

To July 17/6

CLAIM GROUP. DUB 2

PARTY CHIEF. PHIL NIELSEN

PERSONNEL	POSITION	TIME	WAGE
<u>DOUG TIZYA</u>	<u>COOK.</u>		<u>950/mo</u>
<u>JOE ETZEL</u>	<u>LINECUTTER</u>		<u>#20/day</u>
<u>JIM ATKINSON</u>	<u>" "</u>		<u>#20/day</u>
<u>MAC LAQUE</u>	<u>" "</u>		<u>#20/day</u>
<u>SAM SMARCH</u>	<u>" "</u>		<u>#20/day</u>
<u>BILL BARLLAY</u>	<u>MAG. OP.</u>		<u>250/mo</u>
<u>PETE TEGART</u>	<u>E.M. OP.</u>		<u>275/mo</u>
<u>TED LIGHTFOOT</u>	<u>" "</u>		<u>400/mo</u>
<u>PAT BROWNSWORD</u>	<u>GEOCHEM OP.</u>		<u>375/mo</u>
<u>TIM SADLER-BROWN</u>	<u>GEOLOGIST.</u>		

Day of Week	HELICOPTER		FIXED WING		LINECUTTING		GEOCHEM.		GEOPHYSICS				GENERAL
	Job	Hrs.	Job	Hrs.	Lines	Feet	Lines	No. Samples Taken	E.M. Lines	MAG. Ft.	Lines	Ft.	
Mon. 11	-	-	-	-	B.L. L12N L24N L85	3500S 3600E 4900 4900.	DUB 2	140.	DUB2	14000	DUB 2	14000	GEOLOGY DONE. I STAKED CLAIMS.
Tues. 12	-	-	SUPPLIES FROM ROSS RIVER	2 HRS	L40S L32 L48	3000W 6000 3000W	DUB 2	155	DUB2	15000	DUB 2	15000	TIM & I LOCATED VINVEST. I GATED E.M. ANOMALIES AT SOUTH END OF CLAIM GROUP.
Wed. 13	-	-	SUPPLIES FROM ROSS RIVER	2 HRS	L90S L98S B.L.	3000E 3000E 2000S	DUB 2	165	DUB 2	-	DUB 2	1	MAG. OP. & E.M. CHECKED. ONE LINECUTTER & MYSELF BACKPACKED SUPPLIES FROM LAKE
Thurs. 14	-	-	-	-	L12S L10S L65 L25	10000	DUB 2	100.	DUB 2	18000	DUB 2	18000	I set up more accurate grid near showing. Line at 200 ft intervals. GEOLOGY DONE.
Fri. 15	-	-	-	-	L2N L6N B.L.2	7000	DUB 2	110	DUB 2	8000	DUB 2	11000	E.M. plotted. GEOLOGY DONE.
Sat. 16	-	-	-	-	L28N L32N L36S L28S	36000 36900	DUB 2	TAGGED CLAIM POSTS	DUB2	10000	DUB2	17000	CLAIMS TAGGED. I LOCATED CLAIMS. GEOLOGY DONE.
Sun. 17	SUPPLIES IN FROM ROSS	1 HR.	-	-	L20N L16N	6000	DUB 2	60	DUB2	18000	DUB2	10000	TIM, JOE & I RESTAKED CLAIMS. LATER CHANGED AGAIN.
TOTAL		1 HR.	2 HRS			71,860		730					

93,900  
Work progressing smoothly despite rough terrain.

PROJECT KY<sup>o</sup>E. LAKES

ATLAS EXPLORATION COMPANY LIMITED

PERIOD

From JULY 8/66  
To JULY 24/66

CLAIM GROUP DUB 2

PARTY CHIEF R.H.L. NIELSEN

PERSONNEL MURRAY SIMPSON - E.M. OP. (came in July 22/66)

# 950/mo

PERSONNEL DOUG TIZYA POSITION COOK TIME \_\_\_\_\_ WAGE \_\_\_\_\_  
JOE ETZEL } POSITION LINECUTTER TIME \_\_\_\_\_ WAGE # 950/mo  
JIM ATKINSON } POSITION " TIME \_\_\_\_\_ WAGE \$70/day  
MACK LAQUE } POSITION " TIME \_\_\_\_\_ WAGE "  
SAM SMARCH } POSITION " TIME \_\_\_\_\_ WAGE "  
BILL BRADLEY } POSITION MAG. OP. TIME \_\_\_\_\_ WAGE # 950/mo  
PETE TEGART } POSITION E.M. OP. TIME \_\_\_\_\_ WAGE # 475/mo  
TED LIGHTFOOT } POSITION E.M. OP. TIME \_\_\_\_\_ WAGE # 400/mo  
PAT BROWNSWORD } POSITION GEOCHEM OP. TIME \_\_\_\_\_ WAGE # 375/mo  
TIM SADLER-BROWN } POSITION GEOLOGIST TIME \_\_\_\_\_ WAGE ?

Day Of Week	HELICOPTER		FIXED WING		LINECUTTING		GEOCHEM		GECHEMIS				GENERAL
	Job	Hrs	Job	Hrs	Lines	Feet	Lines	No. Samples Taken	E.M.		Mag		
									Lines	Ft	Lines	Ft	
Mon. 18	-	-	-	-	-	-	-	-	-	-	-	-	CREW TOOK DAY PETE TEGART off LEFT FOR HUNDREDS GROUP SAM SMARCH ILL. WENT OUT TO WHITEHORSE
Tues. 19	RECCE. GEOLOGY DUB	1/2 HR.	-	-	DUB 2	10,000	SILT SAMPLED CREEK.	30	ONLY ONE E.M. OP. SILT SAMPLED	20	-	-	-
Wed. 20	-	-	SUPPLIES IN.	2 HRS.	-	-	-	-	DID GEOLOGY WITH T.S. BROWN - DUB I	DUB 2	10,000	-	PLANE CAME IN WITH JUICE, MEATBALLS & SYRUP ONLY. VERY POOR SHOW!
Thur. 21	-	-	-	-	2 CUTTERS ON DUB 2	6000	DUB 2	115	SILT SAMPLED DUB 2	15	DUB 2	8,000	ONE LINECUTTER & I STRAIGHTENED OUT DUB 2 CLAIMS 47-48.
Fri. 22	-	-	SUPPLIES	2 HRS	DUB 1 EXTENSION	6000	SILT SAMPLED	30	STAKED DUB CLAIMS	DUB 2	-	-	GEOLOGIST & COOK PACKED UP SUPPLIES FROM LAKE. MURRAY SIMPSON STARTED WORK
Sat. 23	-	-	-	-	"	6000	GEOCHEM SOILS & PLOTTED	45	2245; 205; 165; 125; 85 - DUB 2	3,500	DUB 2	-	BILL & I STAKED DUB CLAIMS 49 & G CREW MOVED TO LAKE (FYRE) IN EVENING.
Sun. 24	-	-	-	-	"	4,000	DUB 1 EXTENSION	160	DUB 1 EXTENSION	16,000	DUB 1 EXTENSION	16,000	GEOLOGY - DUB 2 ALL WEEK.
TOTAL	-	1/2 HR.	-	4 HRS	-	22,000	-	380	-	38,500	-	34,000	-

PROJECT P.V. E. LAKE.....

ATEAS EXPLORATION LIMITED

PERIOD

From JULY 25 '66.....To JULY 31 '66.....CLAIM GROUP TAK.....PARTY CHIEF PHIL NIELSEN.....

PERSONNEL	POSITION	TIME	WAGE
<u>DOUG TIZYA</u>	<u>COOK</u>	<u>\$450/mo</u>	<u>7 days</u>
<u>JIM ATKINSON</u>	<u>LINECUTTER</u>	<u>20/day</u>	<u>"</u>
<u>JOE FIZEL</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>MACK LAQUE</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>GEORGE JOHNNY</u>	<u>"</u>	<u>"</u>	<u>6</u>
<u>BILL BARCLAY</u>	<u>MAG. OP.</u>	<u>\$450/mo</u>	<u>7</u>
<u>TED LIGHTFOOT</u>	<u>E.M. OP.</u>	<u>\$400/mo</u>	<u>7</u>
<u>MURRAY SIMPSON</u>	<u>"</u>	<u>\$450/mo</u>	<u>7</u>
<u>PAT BROWNSWORD</u>	<u>GEOCHEM OP.</u>	<u>\$375/mo</u>	<u>7</u>
<u>TIM SADLER-BROWN</u>	<u>GEOLOGIST</u>	<u>-</u>	<u>7</u>

Day Of Week	HELICOPTER		FIXED WING		LINECUTTING		GEOCHEM.		GEOPHYSICS				GENERAL
	Job	Hrs.	Job	Hrs.	Lines	Feet	Lines	No. Samples Taken	E.M.		MAG.		
									Lines	Ft.	Lines	Ft.	
Mon. 25	-	-	-	-	-	-	-	-	ANT	200	-	-	CREW WAITED FOR CHOPPER TO FACILITATE CAMP MOVE DID NOT SHOW.
Tues. 26	CAMP MOVE	9 HRS	-	-	-	-	-	-	✓	-	-	-	MOVED CAMP TO TAK GP. FROM DUB II
Wed. 27	-	-	-	-	-	-	-	-	-	-	-	-	WEATHER BAD IMPROVED CAMP.
Thurs. 28	-	-	-	-	BASE- LINE	7000	-	-	-	-	-	-	GYG CREW IMPROVED CAMP + CUT WOOD.
Fri. 29	-	-	-	-	-	9100	BASE- LINE	70	BASE- LINE	2000	BASE- LINE	7000	GEOLOGIST REC'D.
Sat. 30	SUPPLIES FROM P.V. LAKE	3 HRS 20 MINS	SUPPLIES FROM ROSS TO LAKE.	2 HRS	-	12,000	TAK.	150	MAPPED	RESULTS of DUB II		-	HALF-FILLED BEAVER CAME IN - POOR SHOW! VERY EXPENSIVE SUPPLIES
Sun. 31	PROPANE TANK	3 HRS	-	-	-	15,000	TAK	210	-	18,000	18,000	-	CHOPPER IN AGAIN WITH SUPPLIES FORGOTTEN YESTERDAY
TOTAL		15 HRS		2 HRS		73,000							GEOLOGY DONE ALL WEEK.

GEORGE JOHNNY STARTED  
WORK TUES JULY 26.

PERSONNELFYRE LAKE GEOLOGICAL, GEOPHYSICAL,  
GEOCHEMICAL CREW

## SURVEYS: DUB Mineral Claims

Phil Nielsen	Party Chief	1600 Beach Ave., Vancouver, 5, B.C.
Peter Tegart	EM Operator	4438 W. 13th, Vancouver, 8, B. C.
Murray Simpson	EM Operator	c/o General Delivery, Whitehorse, Y.T.
Ted Lightfoot	EM Operator	7081 - 232nd Street, R.R.7, Langley, B.C.
William Barclay	Magnetometer Operator	6040 Iona Dr., Vancouver, 8, B.C.
Patrick Brownsword	Geochemical Sampler	3563 Quebec St., Vancouver, 10, B.C.
Timothy Sadlier-Brown	Geologist	1490 Edgecliffe Ave., Ottawa, 3, Ont.
Douglas Tizya	Cook	c/o General Delivery, Whitehorse, Y.T.
Joe Etzel	Linecutter	c/o General Delivery, Whitehorse, Y.T.
Sam Smarch	Linecutter	c/o General Delivery, Teslin, Y.T.
Mac Ladue	Linecutter	c/o General Delivery, Ross River, Y.T.
Jim Atkinson	Linecutter	c/o General Delivery, Ross River, Y.T.
George Johnny	Linecutter	c/o General Delivery, Ross River, Y.T.

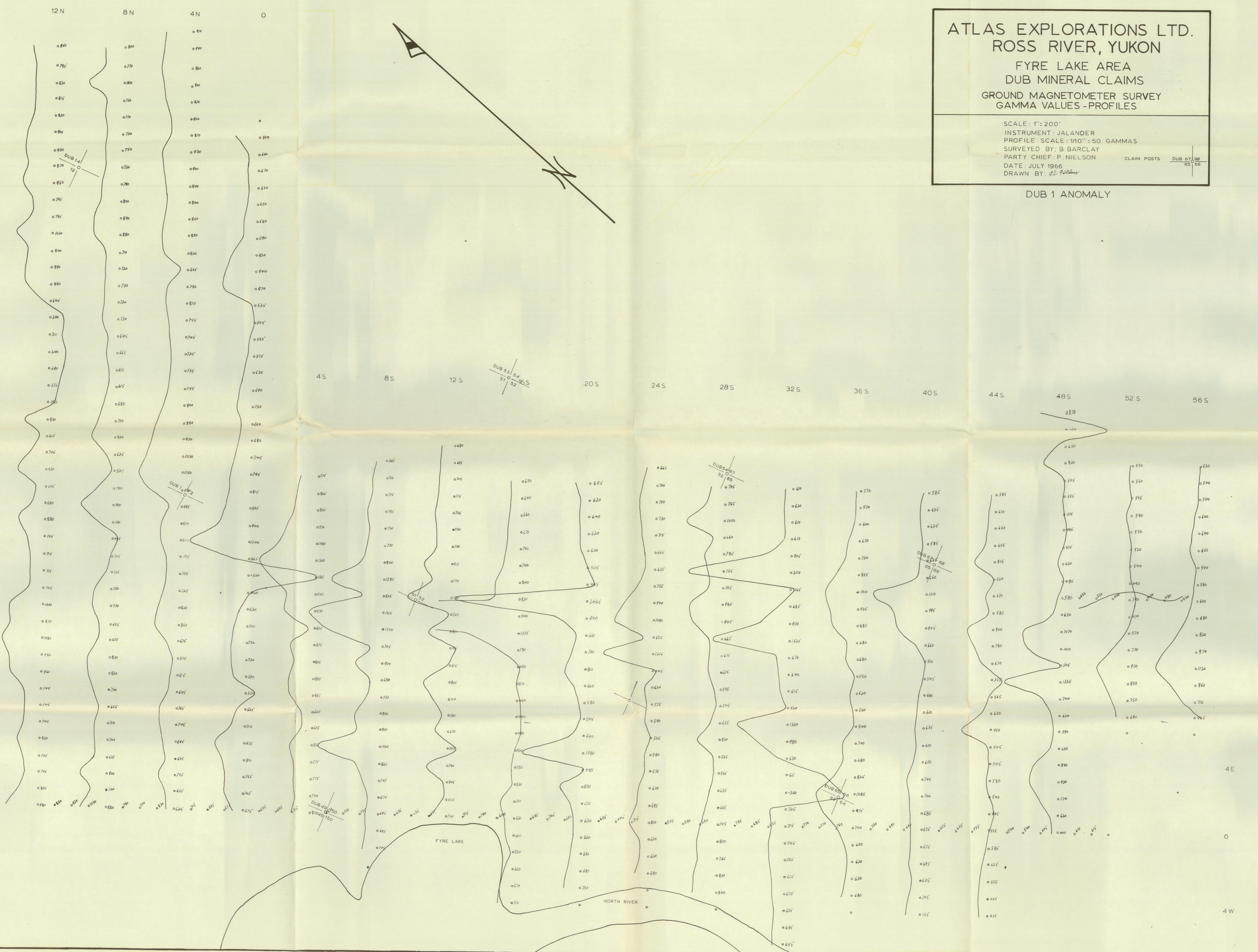


ATLAS EXPLORATIONS LTD.  
 ROSS RIVER, YUKON  
 FYRE LAKE AREA  
 DUB MINERAL CLAIMS  
 GROUND MAGNETOMETER SURVEY  
 GAMMA VALUES - PROFILES

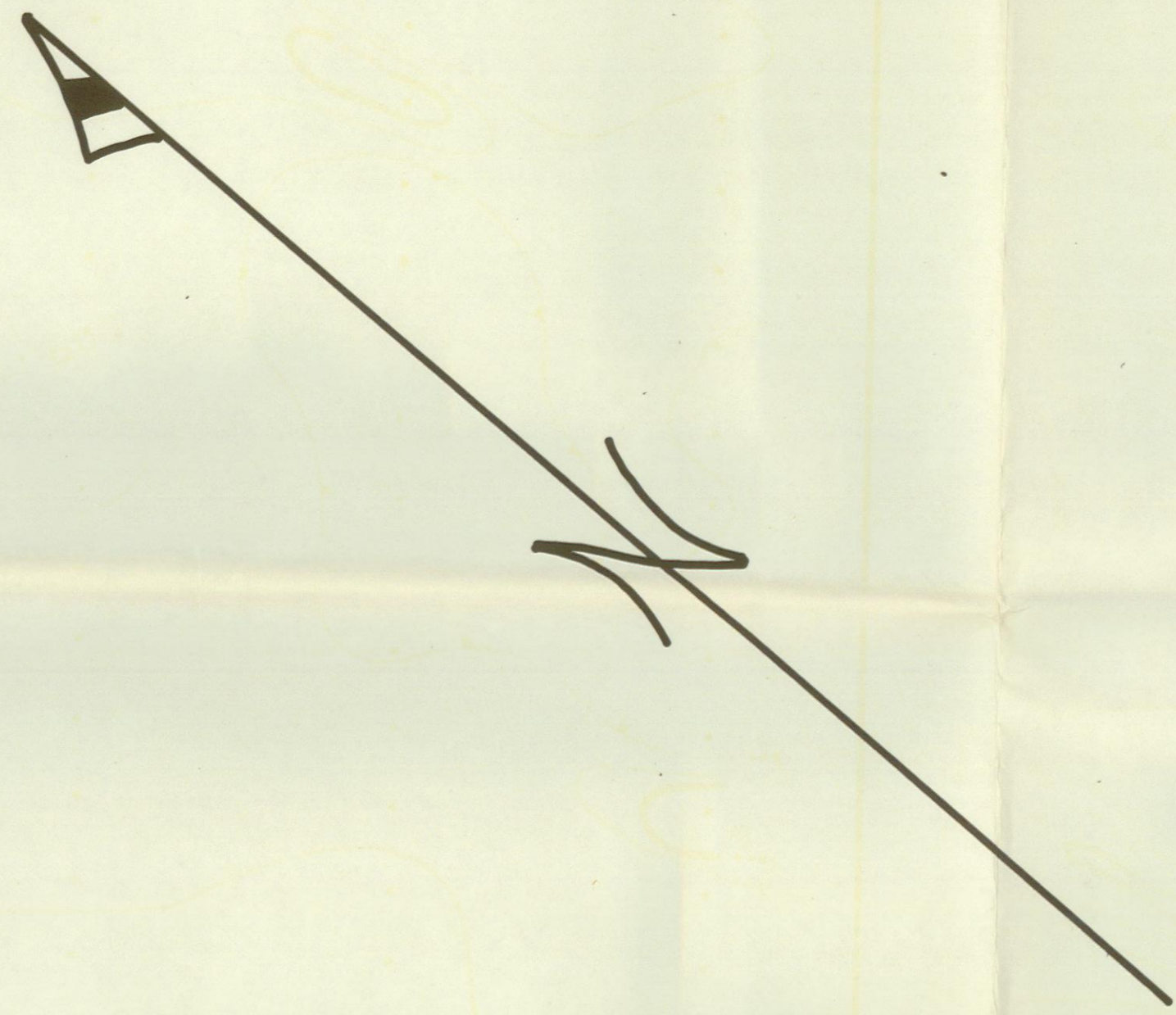
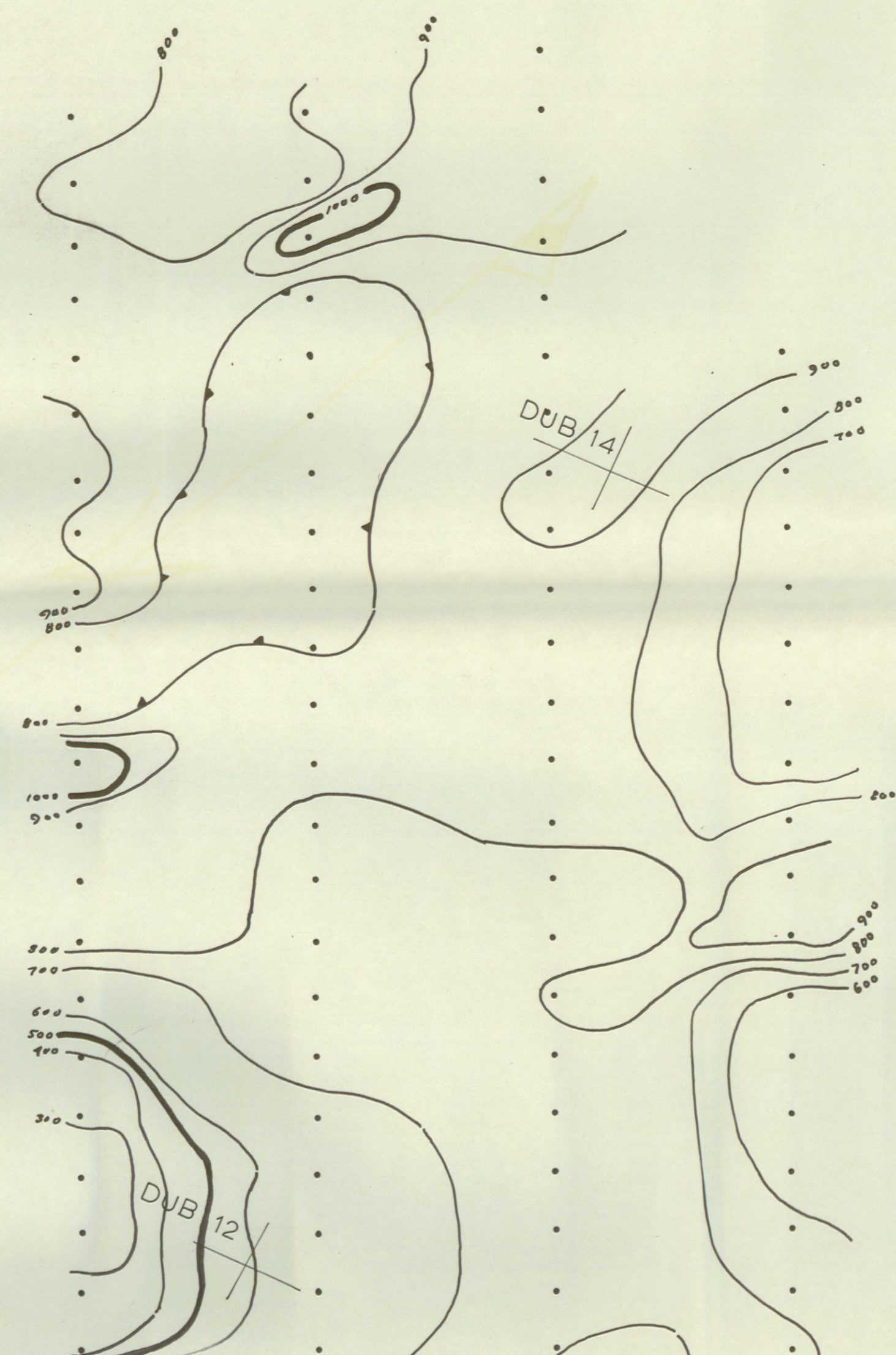
SCALE: 1" = 200'  
 INSTRUMENT: JALANDER  
 PROFILE SCALE: 1"10" = 50 GAMMAS  
 SURVEYED BY: B. BARCLAY  
 PARTY CHIEF: P. NIELSON  
 DATE: JULY 1966  
 DRAWN BY: *DL Nielsen*

CLAIM POSTS  $\frac{DUB 57}{65} \frac{68}{66}$

DUB 1 ANOMALY



12 N 8 N 4 N 0 N



# ATLAS EXPLORATIONS LTD.

ROSS RIVER, YUKON  
 DUB MINERAL CLAIMS  
 FYRE LAKE AREA  
 GROUND MAGNETOMETER SURVEY  
 ISOMAGNETIC CONTOUR INTERVAL

Scale: 1" = 200'  
 Instrument Used: Jalander  
 Contour Interval: 100 gammas  
 Operator: B. Barclay  
 Date: July 1966  
 Drawn By: *Al Fisher*

CLAIM POSTS 

DUB 1 ANOMALY

4 S 8 S 12 S 16 S 20 S 24 S 28 S 32 S 36 S 40 S 44 S 48 S 52 S 56 S



**ATLAS EXPLORATIONS LTD.**  
 ROSS RIVER, YUKON  
 FYRE LAKE AREA  
 DUB MINERAL CLAIMS  
 GROUND ELECTROMAGNETIC SURVEY  
 JEM HORIZONTAL LOOP

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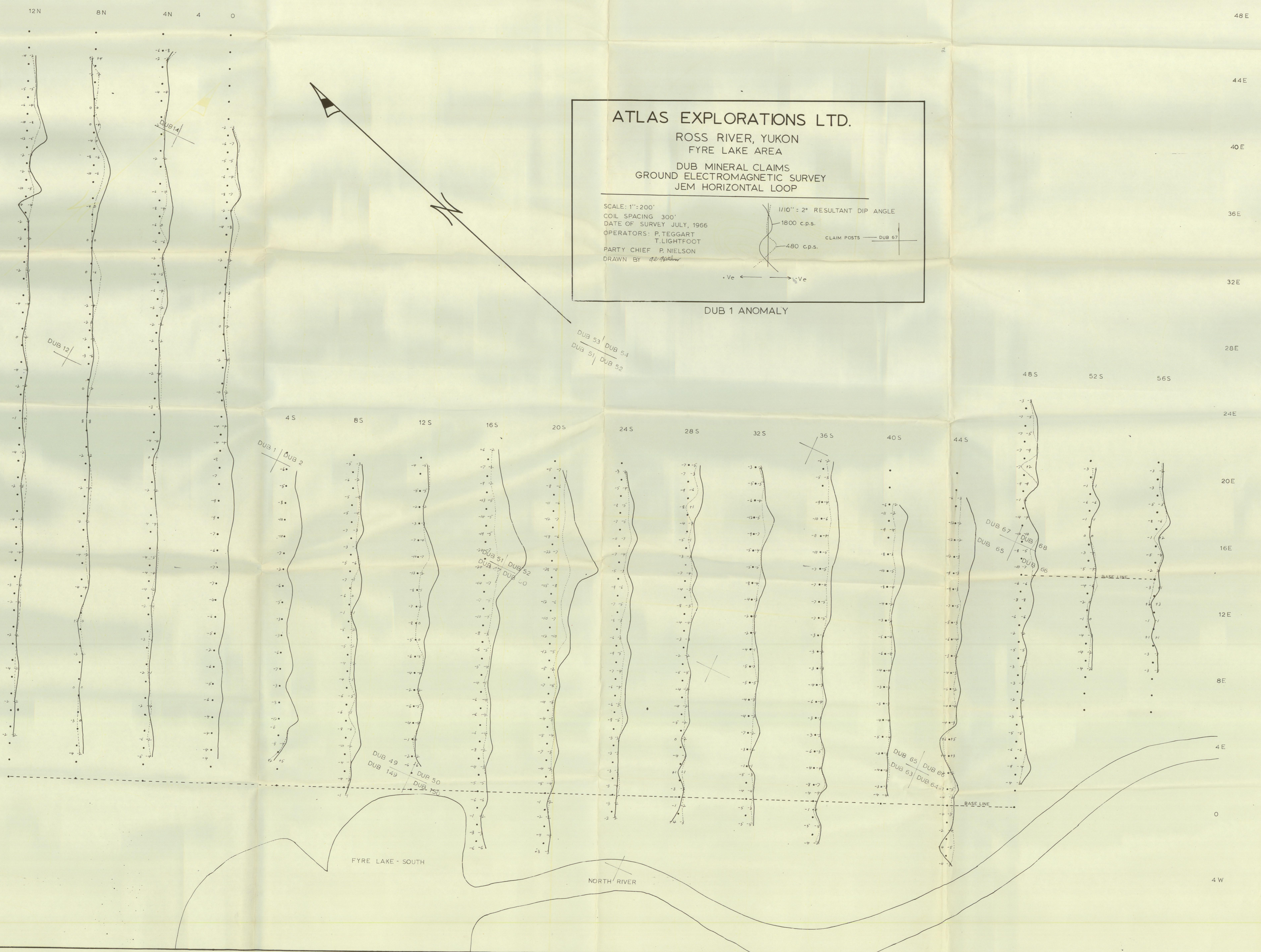
SCALE: 1"=200'  
 COIL SPACING 300'  
 DATE OF SURVEY JULY, 1966  
 OPERATORS: P. TEGGART  
 T. LIGHTFOOT  
 PARTY CHIEF P. NIELSON  
 DRAWN BY *P. Nelson*

1/10" = 2° RESULTANT DIP ANGLE

CLAIM POSTS — DUB 67

.Ve ←      → .Ve

DUB 1 ANOMALY



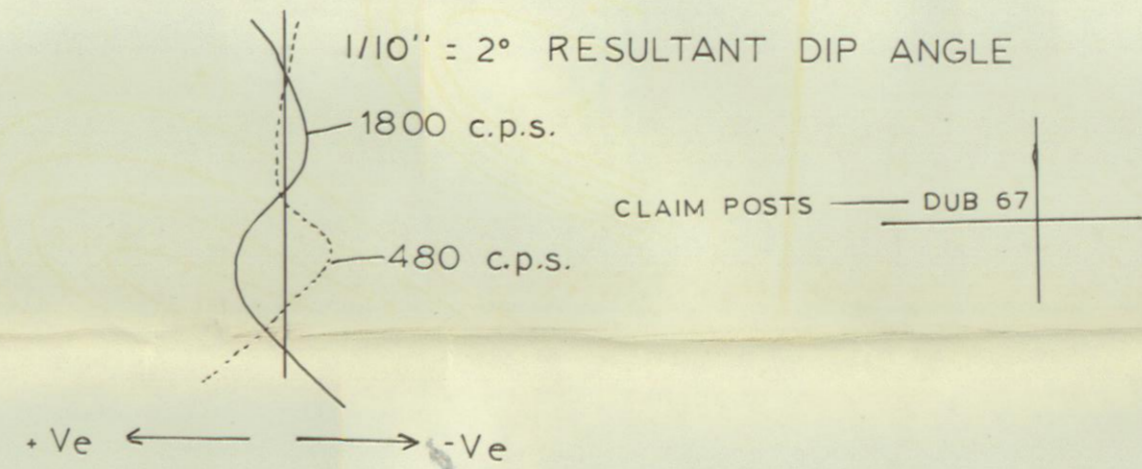


ATLAS EXPLORATIONS LTD.

ROSS RIVER, YUKON  
FYRE LAKE AREA

DUB MINERAL CLAIMS  
GROUND ELECTROMAGNETIC SURVEY  
JEM HORIZONTAL LOOP

SCALE: 1" = 200'  
COIL SPACING 300'  
DATE OF SURVEY JULY, 1966  
OPERATORS: P. TEGGART  
T. LIGHTFOOT  
PARTY CHIEF P. NIELSON  
DRAWN BY *de Gabor*



DUB 1 ANOMALY

DUB 53 / DUB 54  
DUB 51 / DUB 52

DUB 12

DUB 14

DUB 1 / DUB 2

DUB 15  
DUB 16  
DUB 17  
DUB 18  
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DUB 149  
DUB 50  
DUB 150

DUB 63  
DUB 64  
DUB 65  
DUB 66

DUB 65  
DUB 67  
DUB 68  
DUB 66

FYRE LAKE - SOUTH

NORTH RIVER

12N 8N 4N 4 0

48E

44E

40E

36E

32E

28E

48S 52S 56S

24E

20E

16E

12E

8E

4E

0

4W

36 N 28 N 24 N 20 N 16 N 12 N 8 N 6 N 4 N 2 N 0 2 S 4 S 6 S 8 S 10 S 12 S 16 S 20 S 24 S 28 S 32 S 36 S 40 S 48 S



DUB 155 156  
47 48

DUB 47 48  
45 46

DUB 45 46  
43 44

DUB 30 31  
37 38

DUB 37 38  
35 36

DUB 35 36  
33 34

DUB 33 34 334  
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DUB 29 30  
27 28

DUB 27 28  
25 26

DUB 25 26  
23 24

BASE LINE

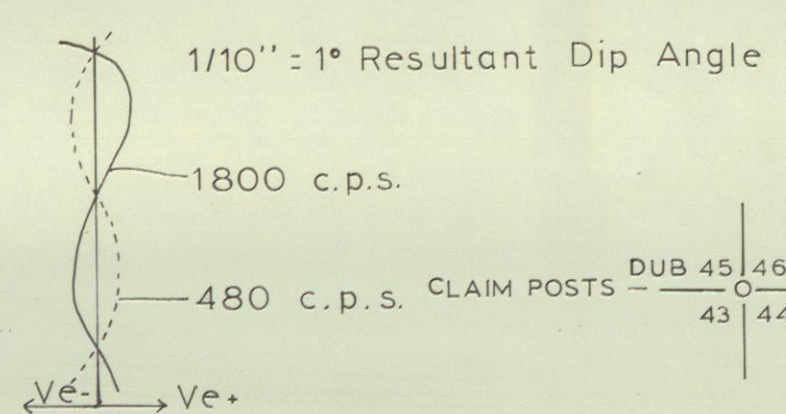
4 E  
0  
4 W

ATLAS EXPLORATIONS LTD.

ROSS RIVER, YUKON  
FYRE LAKE AREA

DUB MINERAL CLAIMS  
GROUND ELECTROMAGNETIC SURVEY  
JEM HORIZONTAL LOOP

SCALE: 1" = 200'  
COIL SPACING - 300'  
DATE OF SURVEY: AUGUST 1966  
OPERATORS: T. LIGHTFOOT, P. TEGGART,  
M. SIMPSON  
PARTY CHIEF: P. NIELSON  
DRAWN BY: *Al. Nelson*



DUB 2 ANOMALY

CREEK

**ATLAS EXPLORATIONS LTD.**  
 ROSS RIVER, YUKON  
 FYRE LAKE AREA  
 DUB MINERAL CLAIMS  
 GROUND ELECTROMAGNETIC SURVEY  
 JEM HORIZONTAL LOOP

SCALE: 1"=200'  
 COIL SPACING 300'  
 DATE OF SURVEY JULY, 1966  
 OPERATORS: P. TEGGART  
 T. LIGHTFOOT  
 PARTY CHIEF P. NIELSON  
 DRAWN BY *P. Nielson*

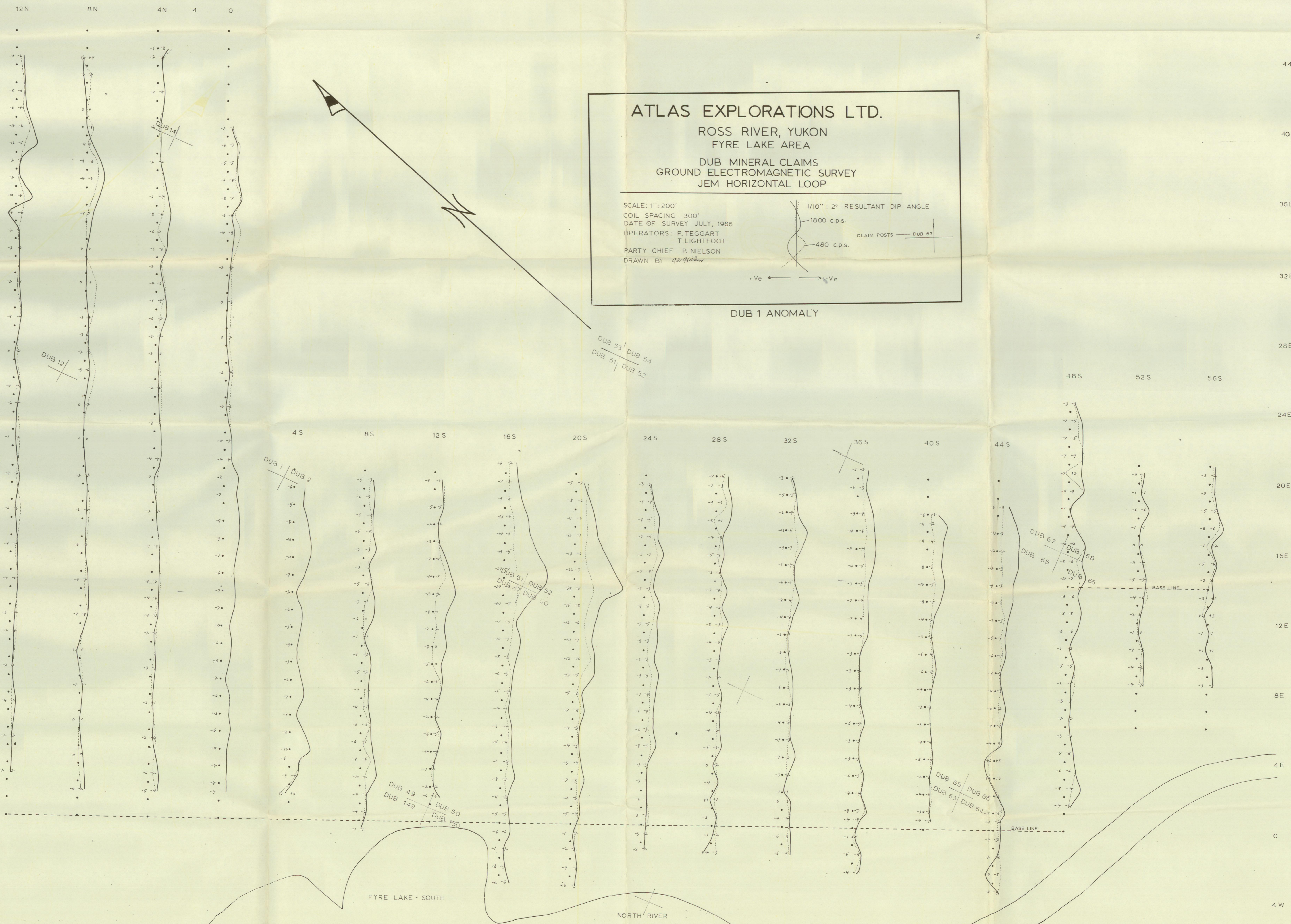
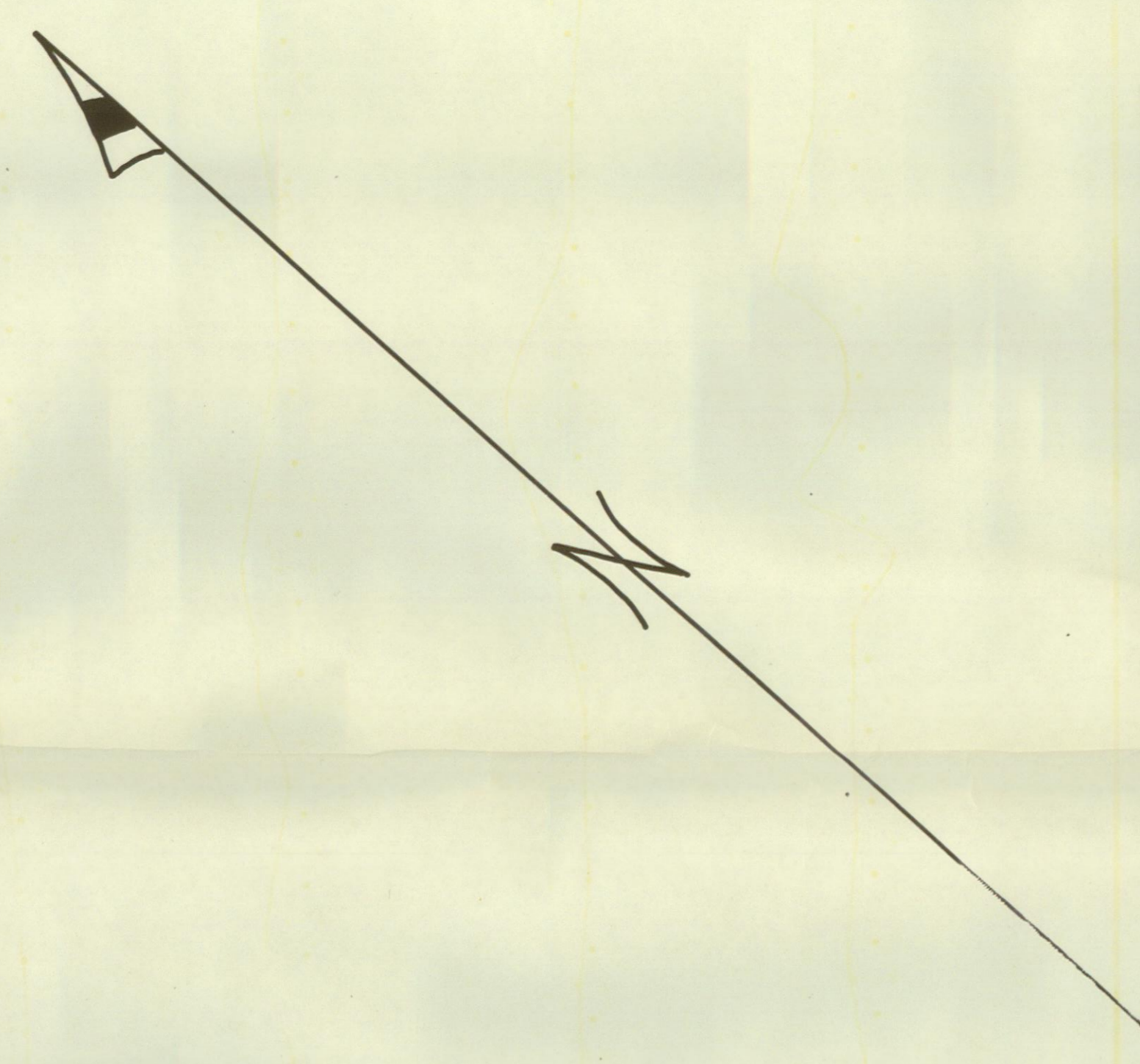
1/10" = 2° RESULTANT DIP ANGLE

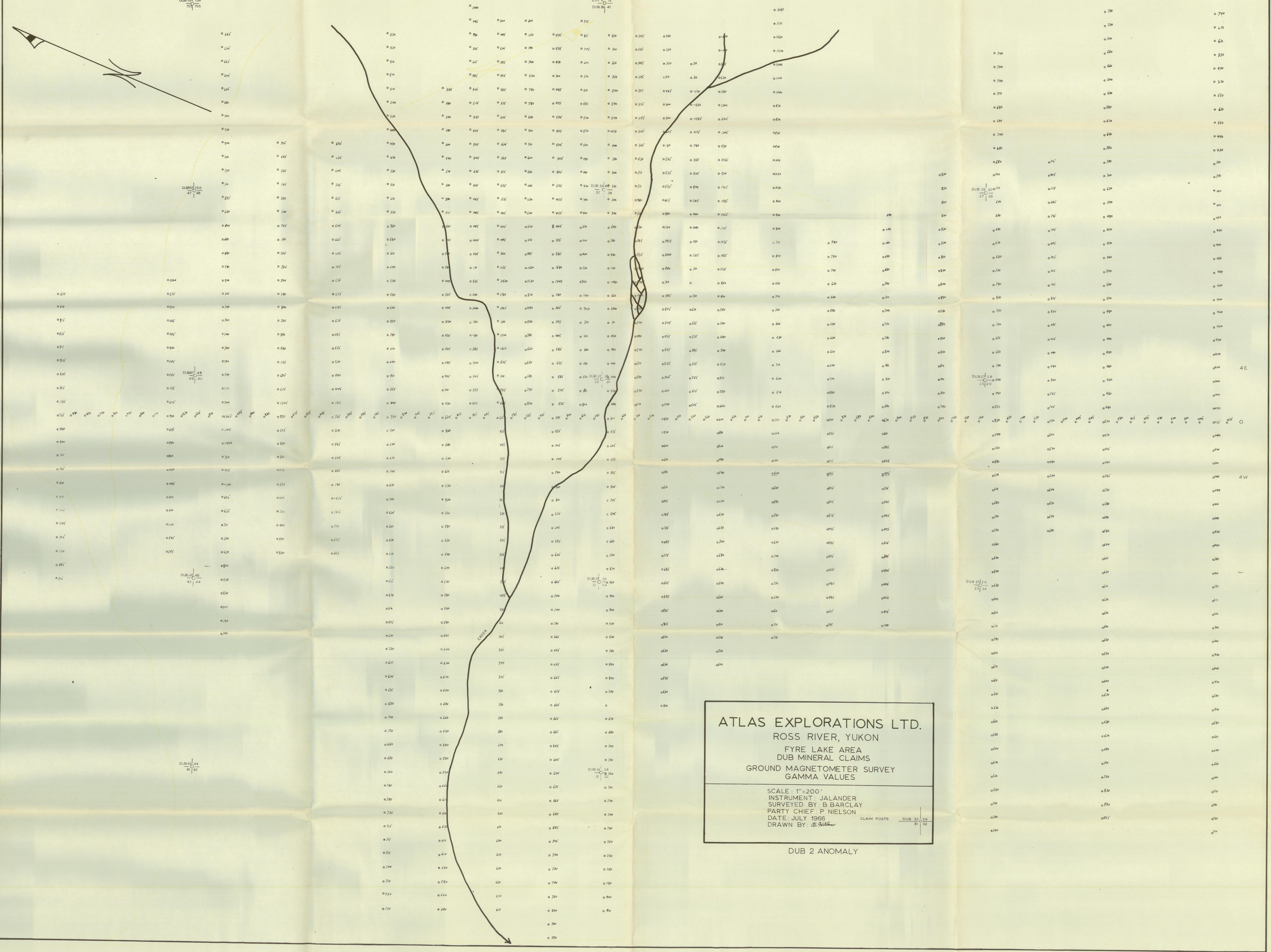
-1800 c.p.s.  
 -480 c.p.s.

CLAIM POSTS — DUB 67

-Ve ← → -Ve

DUB 1 ANOMALY





**ATLAS EXPLORATIONS LTD.**  
 ROSS RIVER, YUKON  
 FYRE LAKE AREA  
 DUB MINERAL CLAIMS  
 GROUND MAGNETOMETER SURVEY  
 GAMMA VALUES

SCALE: 1"=200'  
 INSTRUMENT: JALANDER  
 SURVEYED BY: B BARCLAY  
 PARTY CHIEF: P NIELSON  
 DATE: JULY 1966  
 DRAWN BY: *W. P. ...*

CLAIM POSTS DUB 33 34 31 32

DUB 2 ANOMALY

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000 10100 10200 10300 10400 10500 10600 10700 10800 10900 11000 11100 11200 11300 11400 11500 11600 11700 11800 11900 12000 12100 12200 12300 12400 12500 12600 12700 12800 12900 13000 13100 13200 13300 13400 13500 13600 13700 13800 13900 14000 14100 14200 14300 14400 14500 14600 14700 14800 14900 15000 15100 15200 15300 15400 15500 15600 15700 15800 15900 16000 16100 16200 16300 16400 16500 16600 16700 16800 16900 17000 17100 17200 17300 17400 17500 17600 17700 17800 17900 18000 18100 18200 18300 18400 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35100 35200 35300 35400 35500 35600 35700 35800 35900 36000 36100 36200 36300 36400 36500 36600 36700 36800 36900 37000 37100 37200 37300 37400 37500 37600 37700 37800 37900 38000 38100 38200 38300 38400 38500 38600 38700 38800 38900 39000 39100 39200 39300 39400 39500 39600 39700 39800 39900 40000 40100 40200 40300 40400 40500 40600 40700 40800 40900 41000 41100 41200 41300 41400 41500 41600 41700 41800 41900 42000 42100 42200 42300 42400 42500 42600 42700 42800 42900 43000 43100 43200 43300 43400 43500 43600 43700 43800 43900 44000 44100 44200 44300 44400 44500 44600 44700 44800 44900 45000 45100 45200 45300 45400 45500 45600 45700 45800 45900 46000 46100 46200 46300 46400 46500 46600 46700 46800 46900 47000 47100 47200 47300 47400 47500 47600 47700 47800 47900 48000 48100 48200 48300 48400 48500 48600 48700 48800 48900 49000 49100 49200 49300 49400 49500 49600 49700 49800 49900 50000 50100 50200 50300 50400 50500 50600 50700 50800 50900 51000 51100 51200 51300 51400 51500 51600 51700 51800 51900 52000 52100 52200 52300 52400 52500 52600 52700 52800 52900 53000 53100 53200 53300 53400 53500 53600 53700 53800 53900 54000 54100 54200 54300 54400 54500 54600 54700 54800 54900 55000 55100 55200 55300 55400 55500 55600 55700 55800 55900 56000 56100 56200 56300 56400 56500 56600 56700 56800 56900 57000 57100 57200 57300 57400 57500 57600 57700 57800 57900 58000 58100 58200 58300 58400 58500 58600 58700 58800 58900 59000 59100 59200 59300 59400 59500 59600 59700 59800 59900 60000 60100 60200 60300 60400 60500 60600 60700 60800 60900 61000 61100 61200 61300 61400 61500 61600 61700 61800 61900 62000 62100 62200 62300 62400 62500 62600 62700 62800 62900 63000 63100 63200 63300 63400 63500 63600 63700 63800 63900 64000 64100 64200 64300 64400 64500 64600 64700 64800 64900 65000 65100 65200 65300 65400 65500 65600 65700 65800 65900 66000 66100 66200 66300 66400 66500 66600 66700 66800 66900 67000 67100 67200 67300 67400 67500 67600 67700 67800 67900 68000 68100 68200 68300 68400 68500 68600 68700 68800 68900 69000 69100 69200 69300 69400 69500 69600 69700 69800 69900 70000 70100 70200 70300 70400 70500 70600 70700 70800 70900 71000 71100 71200 71300 71400 71500 71600 71700 71800 71900 72000 72100 72200 72300 72400 72500 72600 72700 72800 72900 73000 73100 73200 73300 73400 73500 73600 73700 73800 73900 74000 74100 74200 74300 74400 74500 74600 74700 74800 74900 75000 75100 75200 75300 75400 75500 75600 75700 75800 75900 76000 76100 76200 76300 76400 76500 76600 76700 76800 76900 77000 77100 77200 77300 77400 77500 77600 77700 77800 77900 78000 78100 78200 78300 78400 78500 78600 78700 78800 78900 79000 79100 79200 79300 79400 79500 79600 79700 79800 79900 80000 80100 80200 80300 80400 80500 80600 80700 80800 80900 81000 81100 81200 81300 81400 81500 81600 81700 81800 81900 82000 82100 82200 82300 82400 82500 82600 82700 82800 82900 83000 83100 83200 83300 83400 83500 83600 83700 83800 83900 84000 84100 84200 84300 84400 84500 84600 84700 84800 84900 85000 85100 85200 85300 85400 85500 85600 85700 85800 85900 86000 86100 86200 86300 86400 86500 86600 86700 86800 86900 87000 87100 87200 87300 87400 87500 87600 87700 87800 87900 88000 88100 88200 88300 88400 88500 88600 88700 88800 88900 89000 89100 89200 89300 89400 89500 89600 89700 89800 89900 90000 90100 90200 90300 90400 90500 90600 90700 90800 90900 91000 91100 91200 91300 91400 91500 91600 91700 91800 91900 92000 92100 92200 92300 92400 92500 92600 92700 92800 92900 93000 93100 93200 93300 93400 93500 93600 93700 93800 93900 94000 94100 94200 94300 94400 94500 94600 94700 94800 94900 95000 95100 95200 95300 95400 95500 95600 95700 95800 95900 96000 96100 96200 96300 96400 96500 96600 96700 96800 96900 97000 97100 97200 97300 97400 97500 97600 97700 97800 97900 98000 98100 98200 98300 98400 98500 98600 98700 98800 98900 99000 99100 99200 99300 99400 99500 99600 99700 99800 99900 100000 100100 100200 100300 100400 100500 100600 100700 100800 100900 101000 101100 101200 101300 101400 101500 101600 101700 101800 101900 102000 102100 102200 102300 102400 102500 102600 102700 102800 102900 103000 103100 103200 103300 103400 103500 103600 103700 103800 103900 104000 104100 104200 104300 104400 104500 104600 104700 104800 104900 105000 105100 105200 105300 105400 105500 105600 105700 105800 105900 106000 106100 106200 106300 106400 106500 106600 106700 106800 106900 107000 107100 107200 107300 107400 107500 107600 107700 107800 107900 108000 108100 108200 108300 108400 108500 108600 108700 108800 108900 109000 109100 109200 109300 109400 109500 109600 109700 109800 109900 110000 110100 110200 110300 110400 110500 110600 110700 110800 110900 111000 111100 111200 111300 111400 111500 111600 111700 111800 111900 112000 112100 112200 112300 112400 112500 112600 112700 112800 112900 113000 113100 113200 113300 113400 113500 113600 113700 113800 113900 114000 114100 114200 114300 114400 114500 114600 114700 114800 114900 115000 115100 115200 115300 115400 115500 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36N 28N 24N 20N 16N 12N 8N 6N 4N 2N 0 2 S 20T 11 4 S<sup>2</sup> 6S 8S 10S 12S 16S 20S 24S 28S 32S 36S 40S 48S

DUB 157 156  
155 156

DUB 155 156  
47 48

DUB 47 48  
48 48

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43 44

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41 42

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DUB 39 40  
37 38

DUB 37 38  
35 36

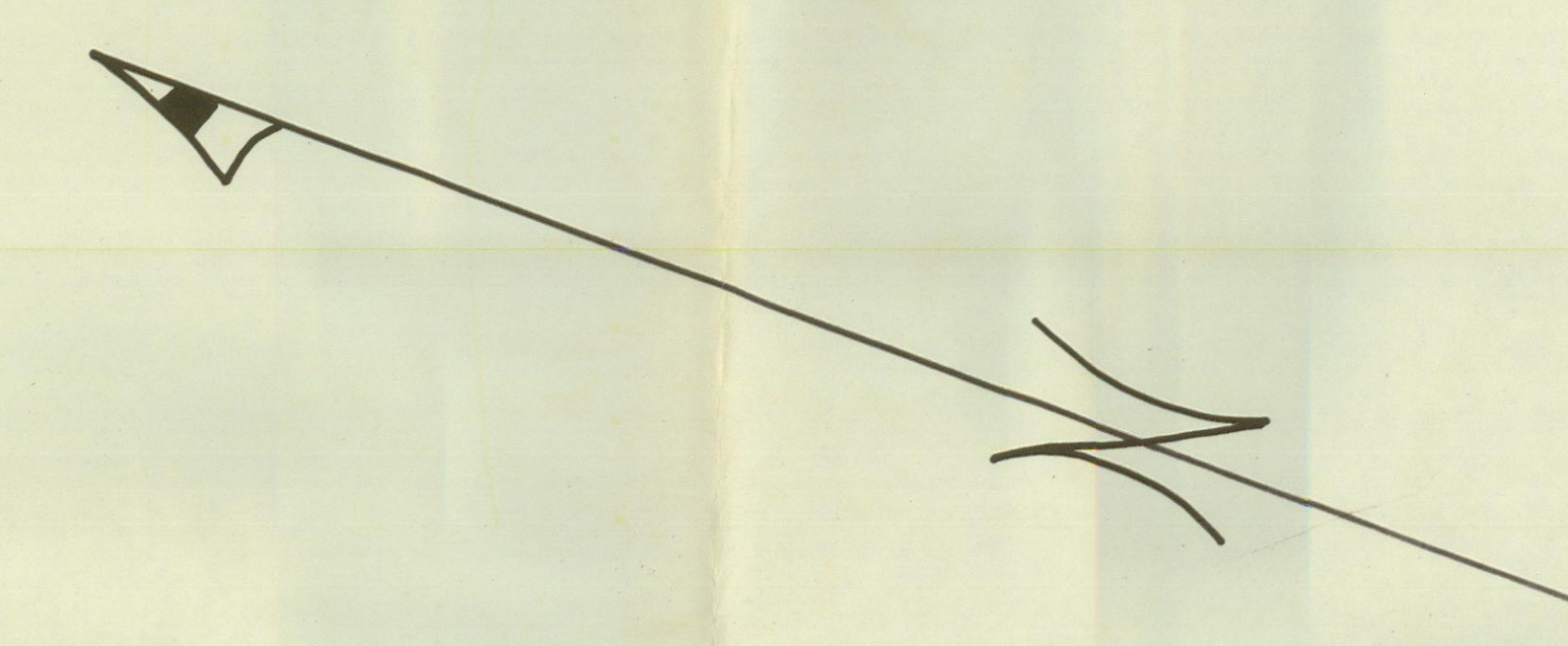
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DUB 33 34  
31 32

DUB 29 30  
27 28

DUB 27 28  
25 26

DUB 25 26  
23 24



ATLAS EXPLORATIONS LTD.  
 ROSS RIVER, YUKON  
 FYRE LAKE AREA  
 DUB MINERAL CLAIMS  
 GROUND MAGNETOMETER PROFILES

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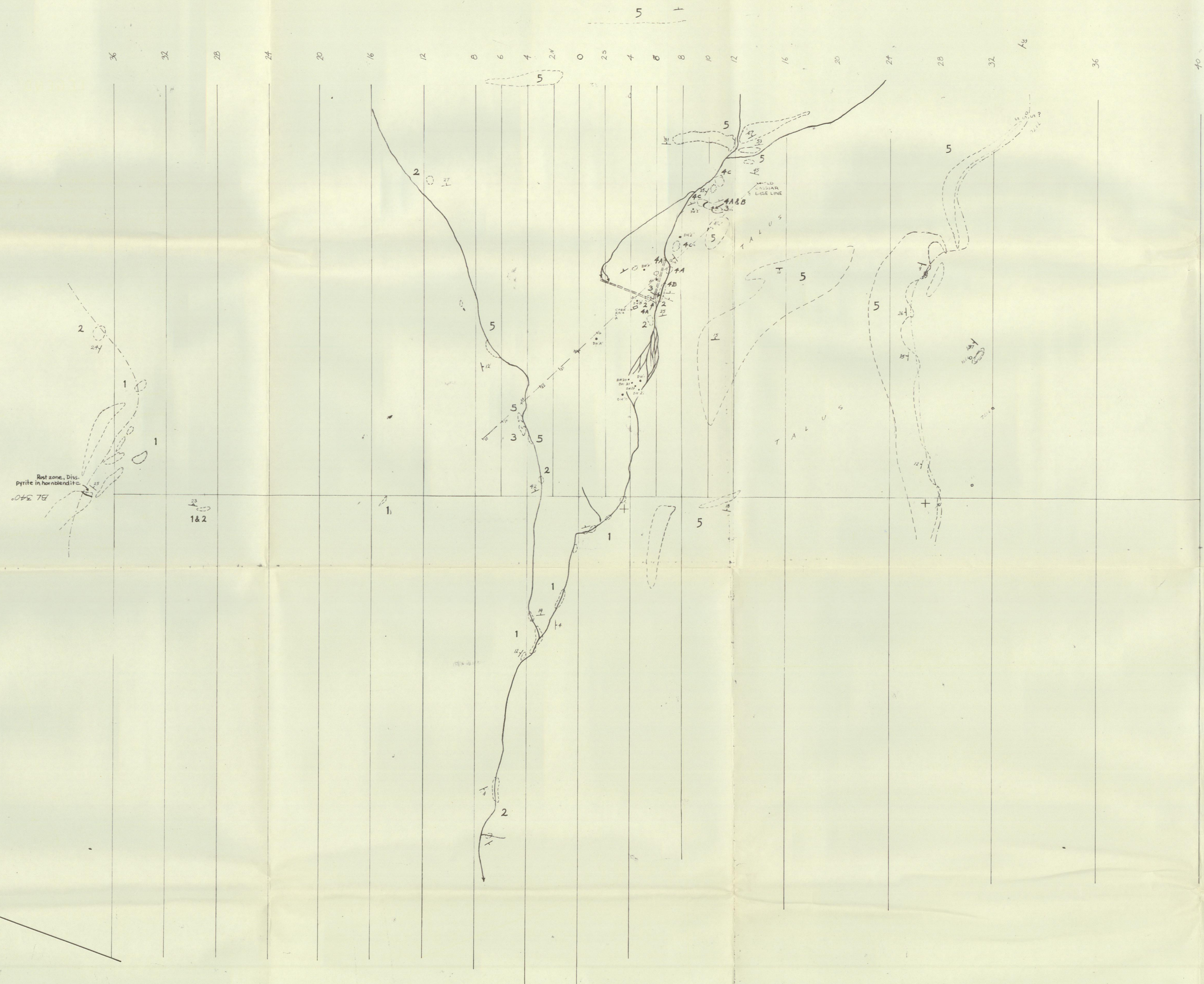
SCALE: 1" = 200'  
 INSTRUMENT USED: JALANDER  
 OPERATOR: B. BARCLAY  
 PARTY CHIEF: P. NIELSON  
 PROFILE SCALE: 1/10" = 25 GAMMAS  
 DATE: JULY 1966  
 DRAWN BY: *Li. Nielsen*

DUB 2 ANOMALY

АТЛАСЪН ДУБЪН ДИСКЪН

CARLEA

4E  
0  
4W



**LEGEND**

- 5 Mica schist, Serricite schist, Phyllite, Graphitic mica schist. Quartz veining + banding common.
- 4 (A) Massive Pyrite with quartz. (B) Vuggy quartz, sometimes with small amount disseminated pyrite. (C) Fe oxide gossan or cap rock - very porous
- 3 Magnetite - quartz - biotite schist. Gneissic in places. Often contains chalcocopyrite and pyrite.
- 2 Chlorite schist
- 1 Quartz-hornblende-mica schist and gneiss.

- Trench
- Stream
- Outcrop Area
- Pit
- Height of Land
- Geological Boundary
- Attitude
  - Inclined bedding or schistosity
  - Horizontal bedding or schistosity
  - Quartz veining
- Diamond Drill Hole



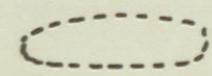
DUB MINERAL CLAIMS  
DUB 2 AREA

ATLAS EXPLORATIONS LIMITED

SCALE: 1 inch to 400 feet

ATLAS EXPLORATIONS LTD.  
ROSS RIVER, YUKON  
FYRE LAKE AREA  
DUB 1 MINERAL CLAIMS  
DEVELOPMENT MAP

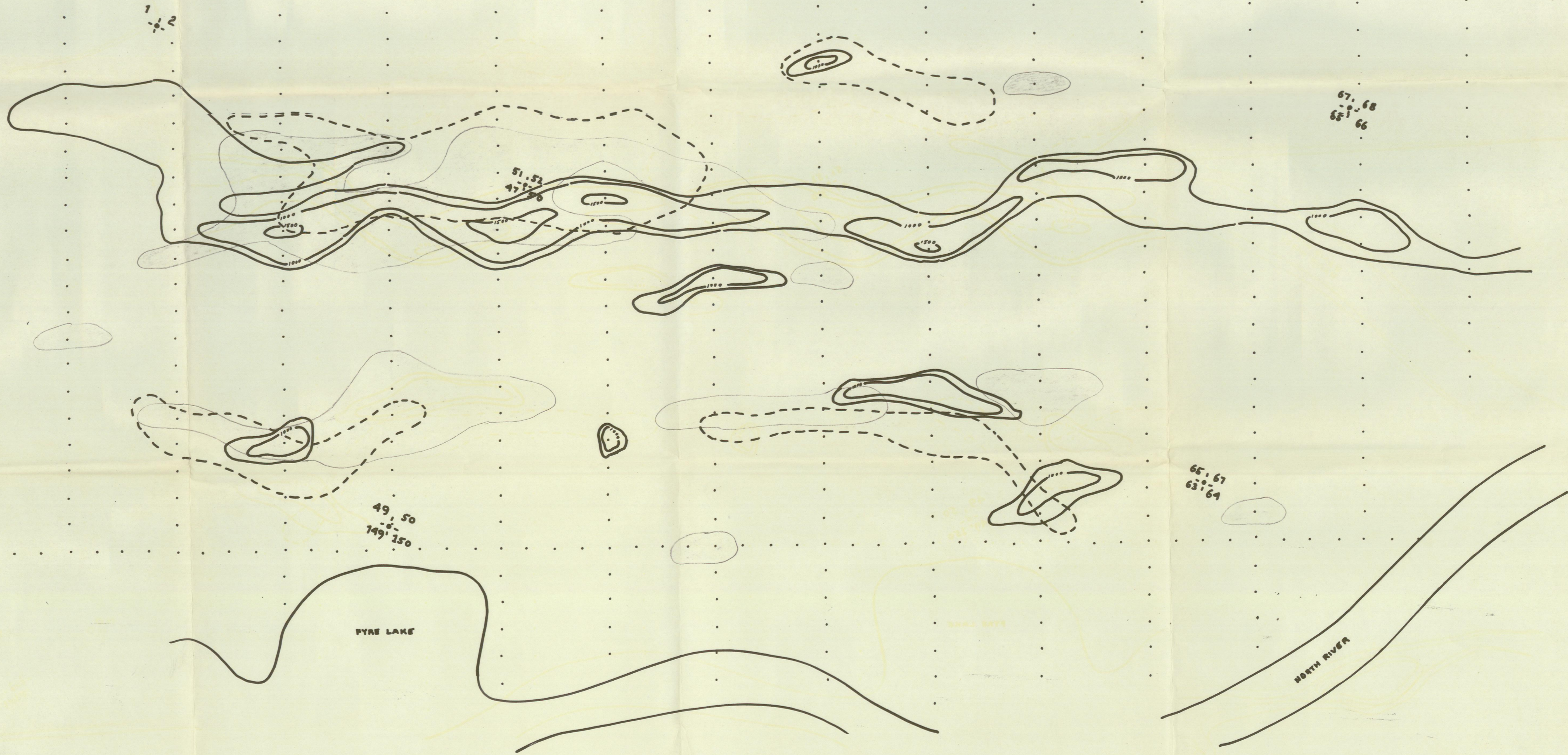
Scale: 1" = 200'

-  Cu. geochemical anomaly
-  Magnetometer anomaly
-  Conductive zone

Date: Sept., 1966  
Drawn by: J.S.B.

12N 8N 4N 0N

45 85 125 165 205 245 285 325 365 405 445 485 525





ATLAS EXPLORATIONS LTD.  
 ROSS RIVER Y.T.  
 DUB MINERAL CLAIMS  
 FYRE LAKE AREA  
 DUB 2 DEVELOPMENT MAP

- DIAMOND DRILL HOLE LOCATION:
- 66-1 ATLAS 300 depth of hole
  - F CASSIAR 25 mineralized interval
  - ⊙ 10 CASSIAR (Packback hole)
- ANOMALY OUTLINE:
- MAG OUTLINE (above 500 f)
  - EM OUTLINE (above -3 degrees high freq)
  - GEOCHEM (above 200 ppm Cu)