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E.L. 2/63

MT. LINDSAY AREA

WESTERN TASMANIA

INTERPRETATION OF A HELICOPTER
BORNE MAGNETIC SURVEY, RENISON
BELL AREA (TASMANIA)

EXTRACTED DIRECTLY FROM
A REPORT BY G. OMNES OF
COMPAGNIE GENERALE DE GEOPHYSIQUE
DATED 4th AUGUST 1973

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TASMANIAN MINES DEPARTMENT (1)

FORWARD

This report has been compiled directly from a report by C.G.G. titled:

"Interpretation of a Helicopter Borne Magnetic Survey, Renison Bell Area (Tasmania)"

dated 4th August, 1973.

The C.G.G. report referred to the entire airborne survey area which covered parts of E.L.2/63, E.L.42/71, and the Renison Consolidated Mining Lease.

All those sections of the report which referred to E.L. 2/63 have thus been extracted and recompiled here.

The C.G.G. report was compiled by G. Omnes, Chief Geophysicist of C.G.G.

L.A. Newnham
CHIEF GEOLOGIST
RENISON LIMITED

10th August, 1973.

ABSTRACT

This report is the interpretation of a helicopter borne magnetic survey flown by Seigel Australasia Pty. Limited in January, 1973 over the Mt. Lindsay area of Tasmania. The aeromagnetic measurements were carried out simultaneously with electromagnetic Turair measurements.

The strongest magnetic anomalies are due to ultrabasic bodies located on the eastern edge of the surveyed area. In the north-eastern corner of the surveyed area a magnetic low surrounded by magnetic anomalies corresponds to a granite intrusion.

In the Mt. Lindsay area the isogam map gives a misleading complex picture of the magnetic structures because the quality of path recovery is very poor. Stacked profiles indicate that the main anomalies are due to conformable steeply dipping magnetic markers. These markers are perhaps due to the substitution of magnetic minerals within carbonate beds above a buried granite intrusion.

Most magnetic anomalies of the Mt. Lindsay area do not coincide with strong Turair anomalies. This does not mean that the mineralisations are not of economic interest. Their amplitudes reach 3000 gammas and their lengths exceed 500 metres. Ground follow up work is recommended on several of these anomalies.

1. GENERAL CONDITIONS

The magnetic dip, i , in the Renison region is 72° . The shape of the anomaly due to an east/west magnetic body depends on i . For bodies which do not have an east/west trend the shape of the magnetic anomaly depends on the apparent inclination, i' , defined as follows:

$$\tan i' = \frac{\tan i}{\cos \psi}$$

where ψ is the angle between the magnetic meridian and a plane perpendicular to the anomaly. In this case ψ varies between 0° and 90° . Therefore i' varies between 72° and 90° .

Provided the remanent magnetisation is negligible and the dips of magnetic bodies are vertical or nearly vertical the anomalies of the total field are: symmetrical positive anomalies ($\psi = 90^{\circ}$) or dissymmetrical anomalies which comprise a positive arch and a much smaller negative arch, the negative arch being located on the southern side of the body.

A dyke-like body which has a dip differing from the vertical by p degrees gives rise to an anomaly which has the same shape as if the apparent inclination was $(i' + p/2)$ instead of i' .

East/west faults give rise to mainly positive anomalies when the magnetic block is thrown upwards on the southern side and mainly negative anomalies when the magnetic block is thrown upwards on the northern side.

The orientation of the magnetic bodies has an influence on the amplitude of anomalies. The amplitude is proportional to

$$M_t = \frac{\sin^2 i}{\sin^2 i'}$$

In the present case M_t varies between 0.95 and 1.00.

All quantitative interpretations have been carried out assuming that the remanent magnetisation is negligible, i.e. $I = k \times T$ (I : magnetisation; k : susceptibility; T : total field). Bilogarithmic master curves were used for all calculations *

The determination of geometrical dimensions is not affected by the remanent magnetisation but the determination of dips and of the magnetisation I may be strongly affected. Magnetisation indicated on interpretation plates are Apparent Magnetisations and dips are hypothetical.

* See "Interpretation of gravimetric and magnetic anomalies" by J. Chastenot de Gery and H. Naudy, 12th Meeting of the European Association of Exploration Geophysicists - Brussels - June 1957.

2. EXPLANATION OF LEGEND

 positive and negative axes : an anomaly may have a positive axis, a negative axis or a positive axis and a negative axis. Positive and negative axes coincide respectively with maxima and minima on anomalies due to a single magnetic body. On complex anomalies some positive axes indicate the position of the maximum as it would be if there were no interferences from stronger anomalies.

It is not always possible to determine the number of elementary anomalies interfering in a complex anomaly. Therefore, the number of positive axes or negative axes represents the minimum number of magnetic bodies.

I_1) I_2 : I_1 I_2 : limits of magnetic bodies. Hatchings are on the side of the higher magnetisation. It is possible to determine the width of a magnetic body if the width is not smaller than the distance between the sensor (i.e. ground clearance + depth below surface) and the top of the magnetic body, otherwise only the product "width x magnetisation" can be calculated.

For some particularly complex anomalies, where limits between magnetic bodies cannot be determined, only the outer envelope of the complex magnetic bodies has been indicated. For narrow isolated magnetic bodies only the axis has been indicated.

Δ : dip; as specified above dips have been determined assuming that the influence of remanent magnetisation is negligible.

I = 400 : magnetisation in gammas. Only the Apparent Magnetisation can be determined because the Remanent Magnetisation is unknown. The relation between the magnetisation I, the magnetic susceptibility k and the total field T is $I = k \times T$.

The magnitude of the Apparent Magnetisation gives a rough idea of the magnetic material content and consequently of the nature of the magnetic body.

- pyrrhotite mineralisations: the interpretation of ground measurements* showed that the Apparent Magnetisations of the known pyrrhotite lodes is sometimes as low as 200 gammas and generally does not exceed 1000 gammas.

- ultramafic bodies: magnetisations are very variable. Generally they are within the 50 - 1000 gamma range, but they are occasionally larger than 1000 gammas.

- Banded Iron Formations: these formations may be strongly magnetic, with magnetisations as high as 5000 - 10000 gammas. The interpretation of the aeromagnetic survey flown by C.G.G. in 1971 west of Renison showed that some Banded Iron Formations have Apparent Magnetisations of about 2500 gammas (see "Interpretation report for Consolidated Syndicate of the Queenstown Aeromagnetic Survey").

* See "Interpretation of vertical component magnetometry at Renison (Tasmania)" - C.G.G. 1972.

- granite, sediments: the magnetisations of ordinary sediments (quartzite, schists, limestones) and granite are lower than 50 gammas. High sensitivity measurements are needed for detecting magnetic contrasts between these formations.

h = 180m : depth of the top of the magnetic body below surface

 : magnetic discontinuity indicated by interruption of magnetic axes. Magnetic discontinuities generally coincide with faults.

2a = 400m : width of magnetic body

3. INTERPRETATION:

3.1. Southern Part: Between T36W and T83W

The Southern Part between T36W and T83W presents much simpler magnetic features than the Northern Parts.

A string of weak anomalies HM17, HM18, HM19, HM20 and HM21 runs along the middle of the central part. Their amplitudes do not exceed 300 gammas. They are apparently associated with Cambrian mudstones (HM20, HM21) and the contact Precambrian-Cambrian (HM18).

On the eastern edge a strong anomaly HM16 coincides with outcropping ultramafic formations.

Anomaly HM16:

- 2a = 300m
- I = 750 gammas (53E)
- h # 0

HM16 coincides with outcropping ultrabasic formations dipping eastward.

Anomalies HM17, HM18, HM19, HM20 and HM21:

- 2a x I = 13,000 gamma-metres (77W)
- h # 0

All magnetic markers have an eastward dip.

3.2. Northern Part: North of T83W

Two features are particularly evident in the northern part:

- in the northeastern corner the magnetic relief is extremely flat. This zone coincides with granite outcrops. Magnetic anomalies are located on the edges of the flat area (see profiles 104E and 105E - Map 2).

- South and west of the magnetic flat anomalies are numerous and some of them are strong, their amplitudes reaching 3000 gammas.

The picture offered by the isogam map south of the magnetic flat is misleading. The contours are very complex and evident correlations between profiles are the exception rather than the rule.

A comparison of stacked total field profiles as presented on map 3 shows that actually correlations are straightforward and that the isogam map should show a zone of higher magnetic relief with evident north/south positive axes due to steeply dipping lode shaped magnetic markers.

The defects of the isogam map are most probably mainly due to a very poor path recovery. As a matter of fact, there are very few control points indicated on the flight lines. This could be due to different possible causes such as poor quality of the mosaic, poor quality of the tracking film, poor visibility during the flights,...

Without the mosaic and tracking films it is not possible to try to re-contour the isogam map and moreover such a work would be outside the scope of the present interpretation report. We limited ourselves to a presentation of stacked profiles showing correlations. The locations of magnetic axes indicated on Map 1 (HM22, HM23, HM24, HM25a, HM25b) are only rough estimates of the true locations. Small transverse faults could not be detected.

A comparison of correlations between T95W, T96W and T97W on the isogam map and on Map 2 shows particularly well that the isogams do not reflect the true shape of the magnetic anomalies.

Anomaly HM22:

- $2a \times I = 100,000$ gamma-metres (96E)
- I 500 gammas
- h # 0

Anomaly HM23:

- $2a \times I = 60,000$ gamma-metres (92E)
- I 500 gammas
- h # 0

These anomalies are due to long lode shaped steeply dipping markers. Magnetisations are as high as, or higher, than the magnetisation of the pyrrhotite lodes at Renison Bell. The amount of magnetic material is of the same order of magnitude or larger, as indicated by the $2a \times I$ products.

On the other hand, no strong Turair anomaly coincides with these magnetic anomalies. Depth of overburden cannot be responsible for this lack of response because the magnetic bodies are almost outcropping. The fact that there is no flat laying magnetic body as at Renison Bell can certainly account for the fact that anomalies are weaker in the Mount Lindsay area, but it cannot explain the absence of Turair anomalies over most magnetic markers.

011

It seems necessary to assume that these Mount Lindsay magnetic mineralisations are not very conductive, perhaps because they contain a high proportion of oxidized magnetite. Oxidized magnetite is sometimes still magnetic, but without its normal electronic conductivity (see C.G.G.'s report "Geophysical survey in Mount Tyndall (Tasmania) - EL 9/66" 1970 - Renison Limited). Another explanation of the high magnetisation and lower conductivity could be a high proportion of magnetite, a small pyrrhotite content and a mineralisation disseminated within a resistive matrix.

A comparison of Maps 1 and 2 with the geological map suggests that at least some magnetic markers coincide with Cambrian carbonate beds. As a matter of fact old workings are known on a carbonate bed on the eastern side of Mount Lindsay. Chalcopyrite, pyrrhotite and magnetite have been observed in these old workings (see geological map EL 2/63 Joint Venture - Renison Limited).

It seems that the area of high magnetic relief is located between two east/west faults (see Map 1) running approximately parallel to T85W and T102E. A large outcropping granitic intrusion lies north of T85W with magnetic anomalies located along its edge. The area of high magnetic relief located between two east/west faults is possibly due to stratiform magnetic mineralisations within favourable beds above a buried granite intrusion.

4. CONCLUSIONS AND RECOMMENDATIONS:

There is one main anomalous area, north of T83W and south of the granite batholith, extending over an area approximately 3 x 2 kms.

It is unfortunate that poor path recovery in the Mt. Lindsay anomalous area led to a contouring of the total field which cannot be used for interpretation purposes.

Stacked profiles show that the main anomalies of this northern anomalous area are due to several lode shaped, steeply dipping magnetic markers. Comparison of the magnetic profiles to the geological map suggests that the main magnetic anomalies are associated with carbonate beds within the Cambrian series. Old workings on one carbonate bed discovered magnetite, pyrrhotite and chalcopyrite.

The amplitude and magnetisation of these northern anomalies are equal to or larger than the amplitudes and magnetisation that could be expected over even large pyrrhotite bodies.

It is possible to formulate the following hypothesis: The Mt. Lindsay anomalous area is located above a shallow but non-outcropping granite intrusion. The anomalies are due to substitution of magnetic minerals in favourable beds and faults above and near these intrusions. This is only an hypothesis but is in particularly good agreement with the features observed.

There are no strong Turair anomalies associated with magnetic anomalies at Mt. Lindsay.

It seems doubtful that large massive pyrrhotite bodies might exist in the northern anomalous area (Mt. Lindsay). This does not mean that the anomalies of the Mt. Lindsay area are not interesting targets for the ground follow up programme.

We would recommend trying to recontour the isogam map in the Mount Lindsay area between T78E and T116E before starting with the ground follow-up work. The cost involved in cutting lines and trying to locate anomalies on the ground can be so high in the Mount Lindsay area that it seems justified to try to obtain a better positioning of anomalies.

If this attempt is unsuccessful we would recommend cutting a grid of east/west traverses with a 400 metre spacing between lines and survey these lines with a proton magnetometer. We recommend a spacing of 20 metres between stations.

These ground profiles of the total field should be carefully compared to the airborne profiles. The most probably position of the aeromagnetic anomalies on the ground grid would be inferred. The exact location of anomalies would then be checked by cutting fill in profiles where necessary and surveying these profiles with a proton magnetometer. We recommend intersecting each interesting zone of a particular anomaly with three traverses at a 100 metre interval and carrying out resistivity, I.P. and S.P. measurements on each traverse. There is no need for ground electromagnetic measurements on the Mount Lindsay anomalous area.

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The identification of aeromagnetic anomalies is logically based on ground magnetometry. On the other hand, the absence of an electromagnetic response does not necessarily mean that the mineralisation has no economic interest. The combination of magnetometry, I.P. resistivity and S.P. can lead to a classification of anomalous bodies in:

- magnetic non-conductive, non-polarisable (oxidized magnetite)
- magnetic, non-conductive, polarisable (disseminated mineralisation)
- magnetic, conductive, polarisable, presence of an S.P. anomaly (massive mineralisation)
- non-magnetic, conductive, polarisable (graphite or massive sulphides located near a magnetic anomaly)
- non-magnetic, non-conductive, polarisable (disseminate graphite or sulphides located near a magnetic anomaly)

Geochemical sampling should be carried out simultaneously with the geophysical operations.

The decision to drill a particular anomaly will be based on the geological observations and the geophysical and geochemical results. Where the top of the anomalous body is particularly shallow it might be less expensive to dig a trench to determine the nature of the anomalous body.

When massive conductive mineralisation is intersected we recommend carrying out a "mise a la masse" (applied potential) survey in order to determine the trend, dip and extension of the conductive mineralisation.

For a first ground follow-up programme we recommend surveying the following anomalies:

In the Mount Lindsay area

- Anomaly HM22: on flight lines 96E, 97W and 98E. A weak Turair anomaly exists on 96E
- Anomaly HM25a: on flight line 99W
- Anomaly HM25b: on flight line 99W
- Anomaly HM29: on flight line 94E
(a small Turair anomaly coincides with the edges of the magnetic anomaly)
- Anomaly HM23: on flight line 92E
- Anomaly HM24: on flight line 92E

016

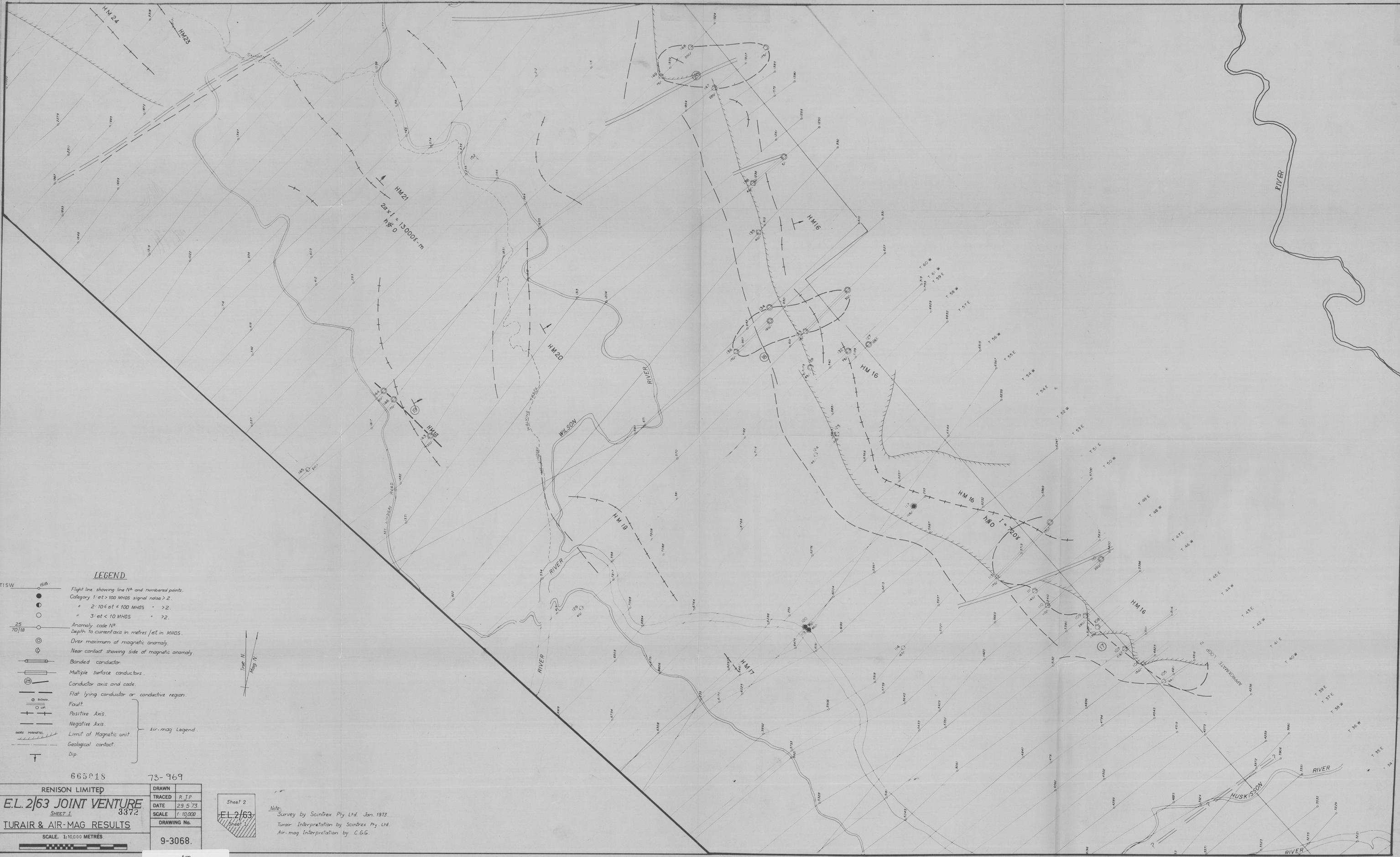
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LIST OF MAPS:

SHEET 1: TURAIR & MAG RESULTS.

SHEET 2: TURAIR & AIR MAG RESULTS.

SHEET 3: MT. LINDSAY AREA STACKED PROFILES.



LEGEND

- T15W 151B Flight line showing line N^o and numbered points.
- Category 1 at > 100 MHDS signal noise > 2.
- " 2 10 ≤ at < 100 MHDS " > 2.
- " 3 at < 10 MHDS " > 2.
- Anomaly code N^o
- Depth to current axis in metres / at in MHDS.
- ⊕ Over maximum of magnetic anomaly.
- ⊖ Near contact showing side of magnetic anomaly.
- ▬ Banded conductor.
- ▬ Multiple surface conductors.
- ⊕ Conductor axis and code.
- ▬ Flat lying conductor or conductive region.
- ⊕ DOWN. Fault.
- ⊕ UP. Positive Axis.
- ⊖ Negative Axis.
- ▬ Limit of Magnetic unit.
- ▬ Geological contact.
- ∠ Dip.



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RENISON LIMITED

E.L. 2/63 JOINT VENTURE 3372

SHEET 1

TURAIR & AIR-MAG RESULTS

SCALE: 1:10,000 METRES

DRAWN	R.J.P.
TRACED	R.J.P.
DATE	29.5.73
SCALE	1:10,000
DRAWING No.	9-3068.

Sheet 2

Sheet 1

5 cm

Note: Survey by Scintrex Pty. Ltd. Jan. 1973.
Turair Interpretation by Scintrex Pty. Ltd.
Air-mag Interpretation by C.G.G.



Air-mag Legend

- down \oplus Fault
- up \ominus Positive Axis
- Negative Axis
- more magnetic
- Limit of Magnetic unit
- Geological contact
- Dip

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3374

W

E

Total field 1cm = 200V

granite

105W

105W

104E

104E

103W

103W

102E

102E

101W

101W

100E

100E

99W

99W

98E

HM 25a

98E

97W

97W

96E

HM22

HM29

HM25b

95W

96E

94E

95W

HM24

HM23

92E

93W

93W

92E

91W

90E

90E

89W

89W

88E

88E

86E

87W

87W

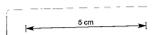
86E

85W

85W

3374

665020



73-969

RENISON LIMITED	
EL 2/63 JOINT VENTURE	DRAWN R J P
MT. LINDSAY AREA	DATE 10/8/73
AIRMAG. STACKED PROFILES.	SCALE 1:10,000
HORIZ. SCALE 1:10,000 METRES	DRAWING No.

3374