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PROGRESS REPORT

QUEEN HILL JOINT VENTURE

E.L. 47/71 TASMANIA

QUARTER TO DECEMBER 21, 1981

28-1-82

OPEN FILE

Distribution:

Department of Mines - Tasmania  
Aberfoyle Exploration - Hawthorn  
" " - Burnie

J.R. Sise -  
Project Geologist,  
Tasmania.  
December 21, 1981.

(This report covers the Aberfoyle  
periods 11/81, 12/81 and 1A/82,  
ending December 14, 1981.)

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## Exploration Licence 47/71 - Queen Hill

### Donnellys Prospect

Exploration on the licence during the last quarter of 1981 continued to focus on the Donnellys grid (Plate ST.D. 42/339/365) where, as previously reported (Sise, 1981), the discovery of a sulphide-bearing gossan near airborne electromagnetic and magnetic anomalies has encouraged the concentration of exploration in the area to bring the prospect to the drilling stage.

#### Gridding (Plate ST.D. 42/339/365)

The first phase of line cutting and gridding to facilitate the ground magnetic survey over DIGHEM anomalies 202D, 203A and 205A (X) has been carried out. A total of 16.4 line km of grid cutting was completed.

It is now planned to cut lines 5300N and 5400N which will extend the grid to the northern boundary of the exploration licence. At the same time lines 4800N to 5400N will be extended to the south-west as far as the contact with the Heemskirk Granite. This will access detailed exploration in the forest-swamp area in which the main EM and magnetic responses are confined.

#### Ground Magnetism (Plate Don.2)

The ground magnetic coverage to date indicates that the main activity is confined to the northern end of the Donnellys grid centred on the forest-swamp area. The EM response, due to the very graphitic black shales, is also confined to this same region. The magnetic data suggests a number of parallel magnetite-rich horizons in the northern area (see line 5000N)

## Exploration Licence 47/71 - Queen Hill.....Cont'd

and that these bodies do not extend south of 4750N, which coincides with the southern edge of the forest. There is a clear spatial relationship between the graphitic black shales and the prospective carbonate and magnetite-rich horizons. Further detailed ground magnetic coverage is planned for the forest-swamp area on completion of the grid cutting.

Geochemistry

Geochemical coverage of the Donnellys grid has continued to be frustrated by the unavailability of a suitable bombardier-mounted auger system to penetrate the swamp and gravels of the prospective forest area.

It will now be attempted in early January 1982 to collect C-horizon samples using a hand-held power auger. It is critical that this important geochemical information be obtained at the earliest opportunity to complete the target definition phase of exploration and permit drill hole selection.

## Tasman River Zone

The north-west trending zone of airborne DIGHEM and magnetic anomalies, Tasman River zone (Figure 1), has until recently been attributed to Tertiary basalts. In the light of the Donnellys discovery, it is proposed to assess these anomalies by reconnaissance mapping, rock geochemistry and ground magnetics.

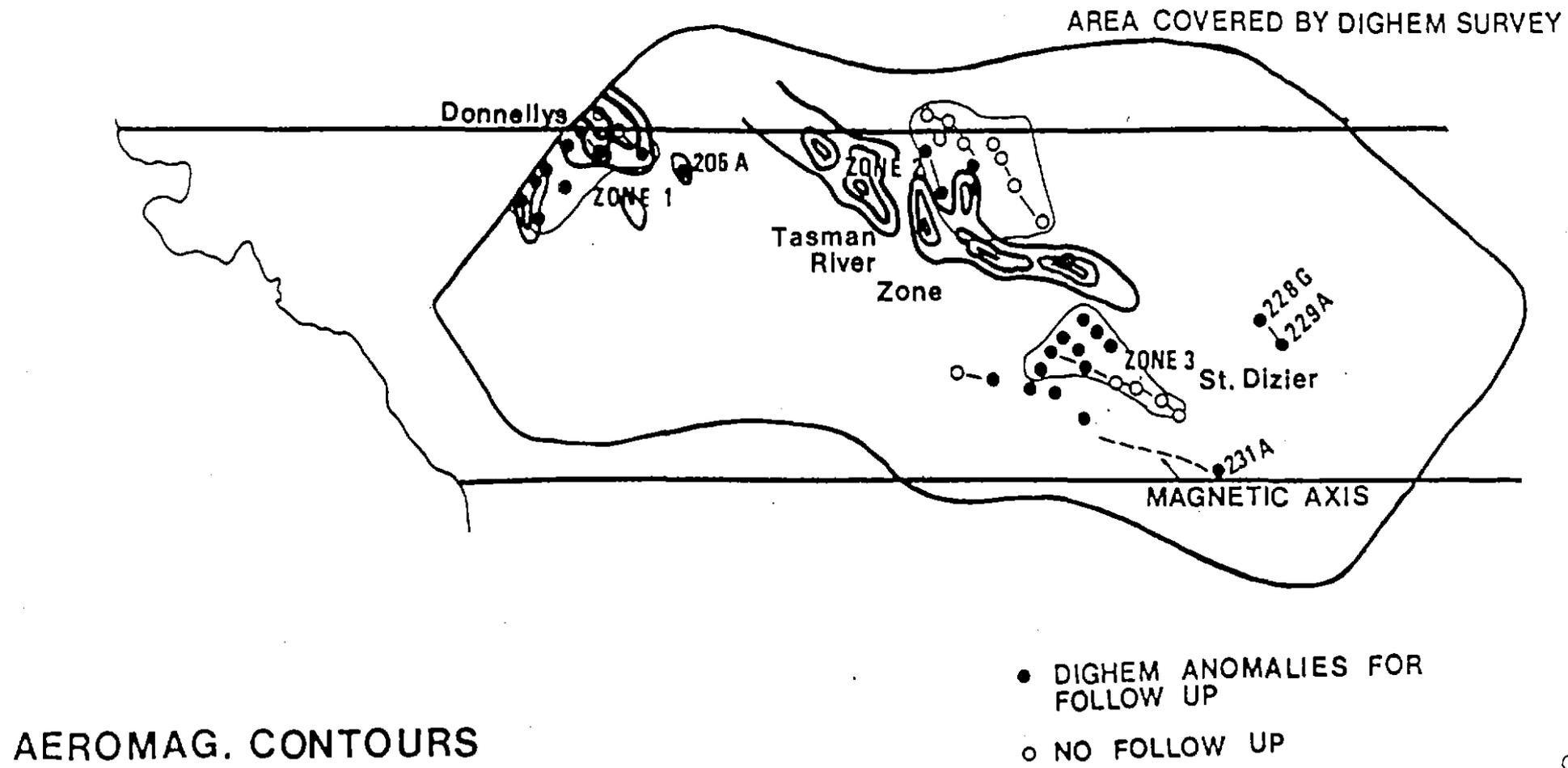


FIGURE 1.

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Expenditure

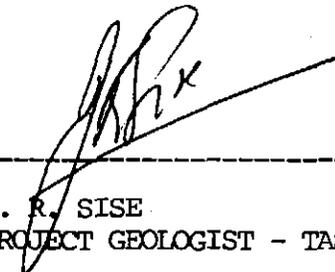
The Joint Venture Statement of Expenditure for the Aberfoyle periods 11 and 12, ending November 16, 1981, pertains to expenditure incurred on the Exploration Licence.

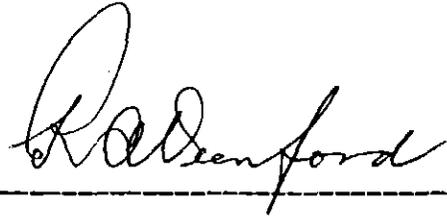
## QUEEN HILL EXPLORATION LICENCE

Geology	2,930
Survey	1,333
Geophysics	3,910
Access	2,786
Geochemistry	42
Tenure	258
Legal	129
Administration @ 15%	<u>1,708</u>
	<u>\$13,096</u>

References

Sise, J.R.            1981            Progress Report, Queen Hill Joint Venture  
E.L. 47/71, Quarter to September 21, 1981.

SIGNED:   
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J. R. SISE  
PROJECT GEOLOGIST - TASMANIA

ENDORSED:   
-----  
*for* C. H. YOUNG  
DISTRICT MANAGER

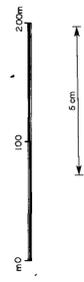
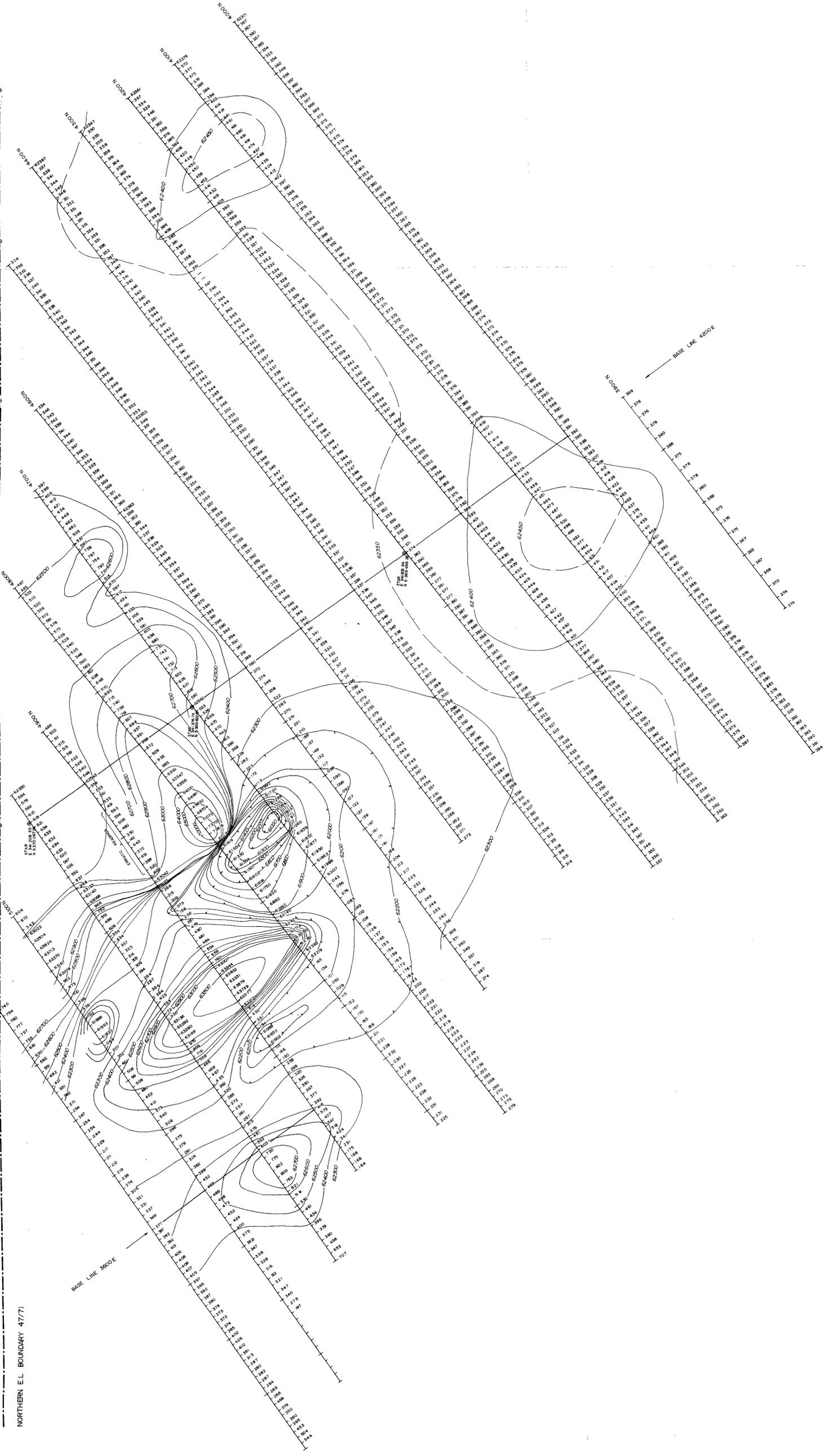


EL BOUNDARY 30/79 C.R.A.

NORTHERN E.L. BOUNDARY 47/71

EL BOUNDARY 30/79 C.R.A.

EL BOUNDARY 47/71



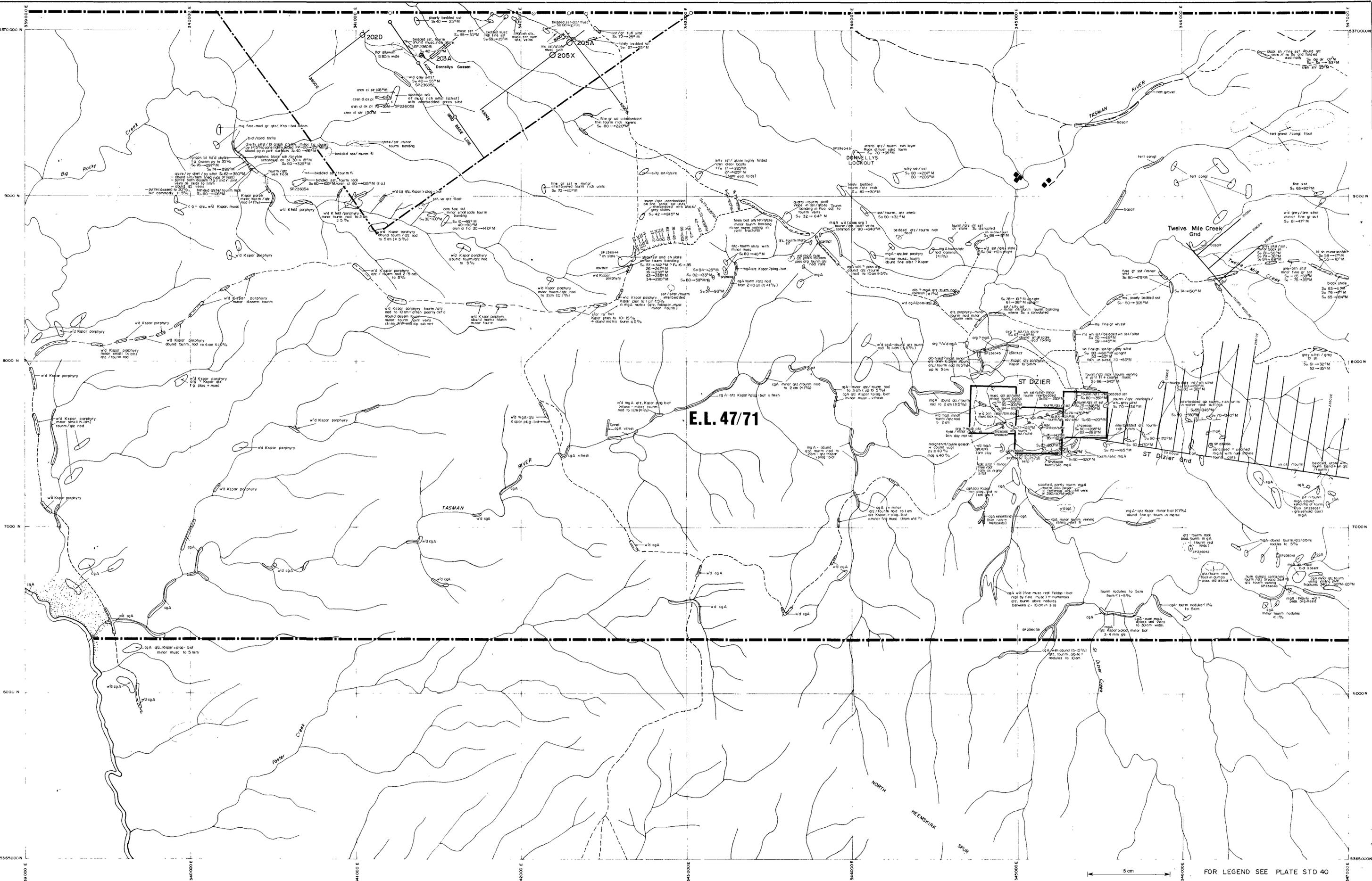
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**Aberfoyle Exploration Pty Ltd**

Location: NORTH WEST TASMANIA  
QUEEN HILL E.L. 47/71  
Project: DONNELLY'S PROSPECT  
Ground: MAGNETICS

Scale: 1:2500  
Date: 12/2000  
Drawn: J.L.R.  
Checked: [blank]  
Printed by: [blank]

EQ-1686



Base sheet enlarged from  
1:31,680 Tasmanian Lands  
Dept Topo

--- Area of detailed follow-up  
○ Survey pegs

331/370	339/370	347/370
331/365	339/365	347/365
331/360	339/360	347/360

**Aberfoyle Exploration** 843009

**NORTH WEST TASMANIA**  
**QUEEN HILL EL 47/71**  
**ST. DIZIER AREA**  
**GEOLOGICAL MAP**

Location code  
 Date April, 1980  
 Scale 1:10,000  
 Plate No. 339/365

Geology	J W
Drawn	J W
Traced	R J E
Checked	
Revised by	Date