

EL 30/2001

Davies Hill

Final Report  
2003

R. Wray-McCann

## Work Completed:

Geophysical Interpretation  
Indicator Mapping  
Reconnaissance Traverses  
Tenement Research

## Major Results

1.

After hiring a dozer to push off the topsoil on a section of the Zeehan Road mapped shale unit, Corbett(86), a series of mineralised specimens were identified over a 40 metre long by 3 metre wide area. A previously unrecognised lithology was found to occur flanking/inter fingering with the shale unit. A coarse to medium sand stone containing disseminated pyrite, pyrite in quartz, chalcopyrite in Lyell type schist, massive haematite-hand size specimen, Tyndal Group/Pioneer bed rock ships as well an altered floater of quartz with what appeared to be small inclusions/slivers of tellurides. Three expert opinions were received on this last mentioned specimen and each arrived at the same conclusion.

The lithologic unit itself appears to outcrop directly over a pyritic medium grained sandstone unit that was identified over a 7 metre intersection and encountered at the 60 metre mark of Davies Hill DDH No. 1, reported by the previous licence holder. The unit appears to correlate with the nearby pyritised felspathic sandstone unit which outcrops on the northern section of the old tramway route to Lake Margaret N.5345600 E.379250.

The Tramway sandstone unit was assayed in 1981 Fitzgerald (83) and gave a report of 0.7 trams Au a ton. It was drilled to a depth of 250 metres in 1983 Komysan (83) and was encountered around 150-200m. It was never assayed for gold, strangely enough. This same area was identified as an MRV unit in an aeromagnetic line profile generated across N5346000 between E372000 and E380000 by Leaman (93) Pasex.

The newly identified pyritised sandstone unit is located at N344200 E378400 AMG 2000. We believe it is a Henty/Western Tharsis style sandstone/conglomerate COON unit.

2.

A radiometric anomaly pertaining to the thorium wave length is interpreted by myself to occur over a 200 metre wide by 100 metre long area around N5344100 E378500.

Numerous excavations have occurred in and around this area over the last ten years and methodical prospecting has identified the area as a hotspot for locating relatively

abundant anomalous rock chip samples, found throughout the thin layer of topsoil. These include disseminated chalcopyrite in lamellar fine grained quartzitic Lyell schist, pyritic limestone pug (hand sized), massive barite in sandstone, barite in quartz, pyrite in quartz, ferruginous agglomerate, Tyndall Group Pioneer Bed (up to thumb size) as well as 1 hand size lump of Henty style pyritised metaquartzite and numerous acid water soaks.

3.

A small sluice and trommel was set up over a small tributary of Diamond Creek on the south slope of Davies Hill N53445000 E 378500. Approximately 2.5 cubic metres of creek wash, put through over several months with the landowner's permission, saw over an ounce of gold and several lumps of quartz with visible gold recovered. Gold was panned, ie. several specks per pan, over a distance of 100 metres east along the creek N534550 E378600. This small creek has a history of alluvial and nugget fold dating back at least 70 years, Butler/Stebbins/Wallace 2003. It was also reliably reported that fine alluvial gold could be obtained near the Pearl Creek culvert on the Lake Margaret Road N5344000 E379000 Temple 2003, although follow up panning fared poorly.

## Proposed Targets

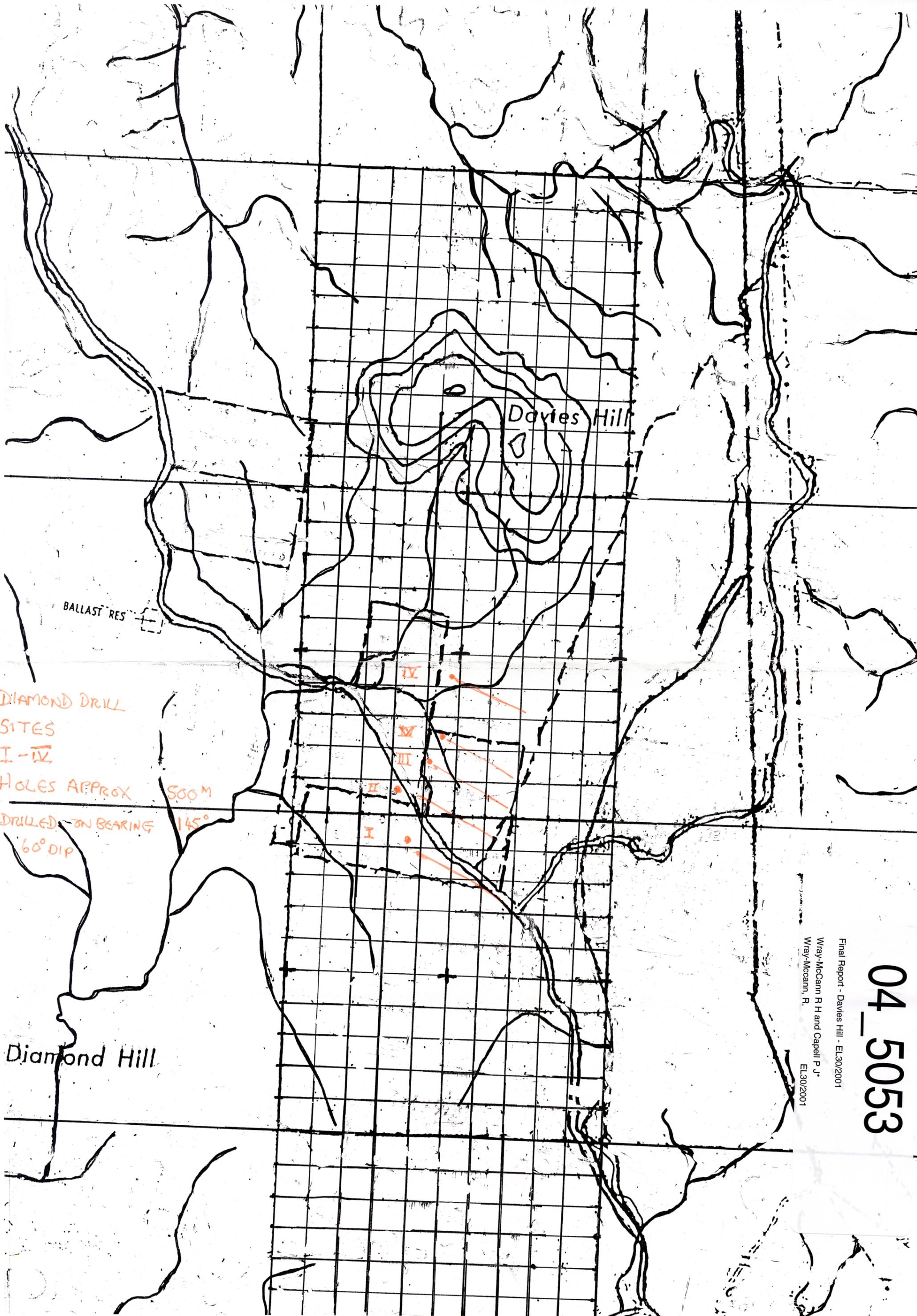
Two geophysical anomalies are interpreted by me to occur within the E.L boundaries, one in the North East area at N5345800 E378800 and the second, in the South East area at N5344200 E37900.

It is the second anomaly that we would like to target first for the following reasons:

- a. The anomaly is on the flanks of two major TMI lows.
- b. The area is associated with a Miners Ridge shale unit numerous anomalous regolith mineral and lithologic indicators.
- c. The area displays a moderate to intense regolith thorium anomaly.
- d. Gold is reliably reported from locations lying immediately North and South of the target area.
- e. Barite and pyritised limestone have been identified in the area between the gold indicators.
- f. The target area has excellent geophysical coverage with low altitude close spaced high-resolution imagery available in gravity, TMI, Radiometrics, 1<sup>st</sup> Vertical TMI, AGC.
- g. There are numerous regional geophysical line profiles and ground based surveys to compare with airborne data.

## Proposed Work Program

The drilling of four 500 metre deep holes, over a 500 metre N/S strike to test the mapped pyritised sandstone unit DH DDH1 at a depth of 350 metres. Finance and joint venture negotiations pending.



BALLAST RES

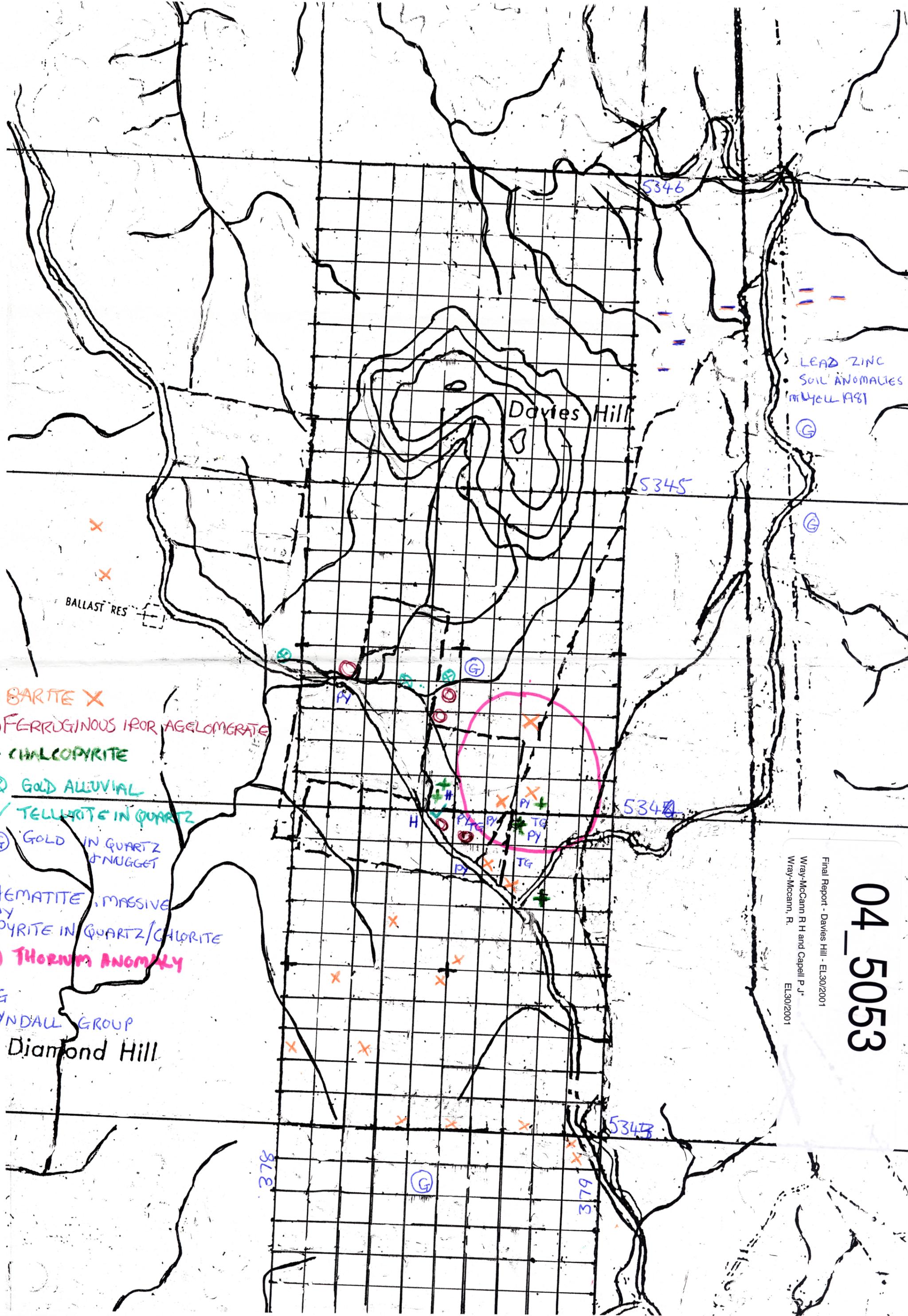
Davies Hill

DIAMOND DRILL  
SITES  
I-IV  
HOLES APPROX  
500 M  
DRILLED ON BEARING  
145°  
60° DIP

Diamond Hill

04\_5053

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LEAD ZINC  
SOIL ANOMALIES  
MYELL 1981

Davies Hill

5346

5345

5344

5343

378

379

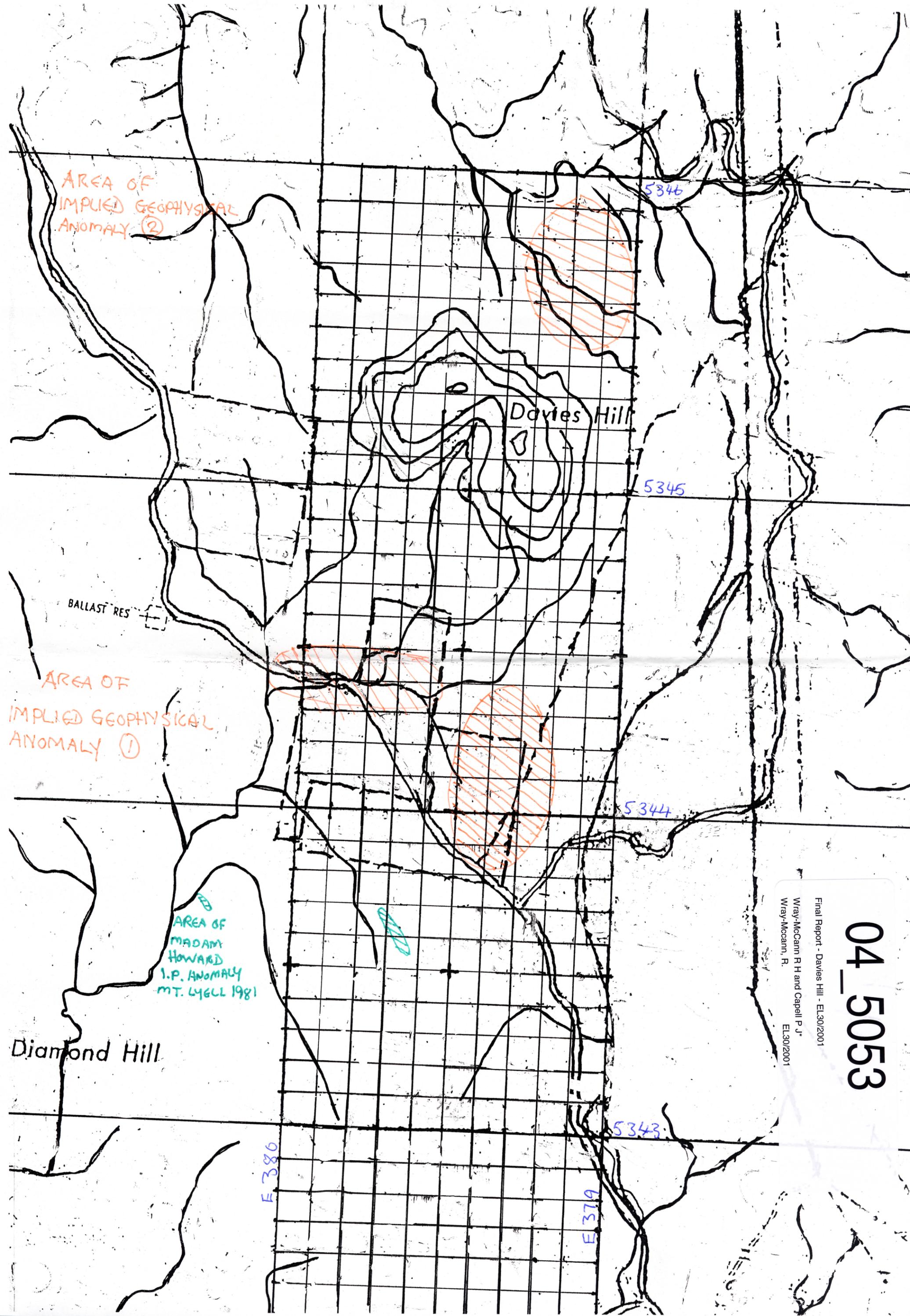
BALLAST RES

- BARITE X
  - FERRUGINOUS IRON AGGLOMERATE
  - + CHALCOPYRITE
  - ⊗ GOLD ALLUVIAL
  - ✓ TELLURITE IN QUARTZ
  - Ⓞ GOLD IN QUARTZ & NUGGET
  - H HEMATITE MASSIVE
  - py PYRITE IN QUARTZ/CHLORITE
  - THORIUM ANOMALY
  - TG TYNDALL GROUP
- Diamond Hill

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AREA OF IMPLIED GEOPHYSICAL ANOMALY (2)

Davies Hill

5346

5345

BALLAST RES

AREA OF IMPLIED GEOPHYSICAL ANOMALY (1)

5344

AREA OF MADAM HOWARD I.P. ANOMALY MT. LYELL 1981

Diamond Hill

5343

E380

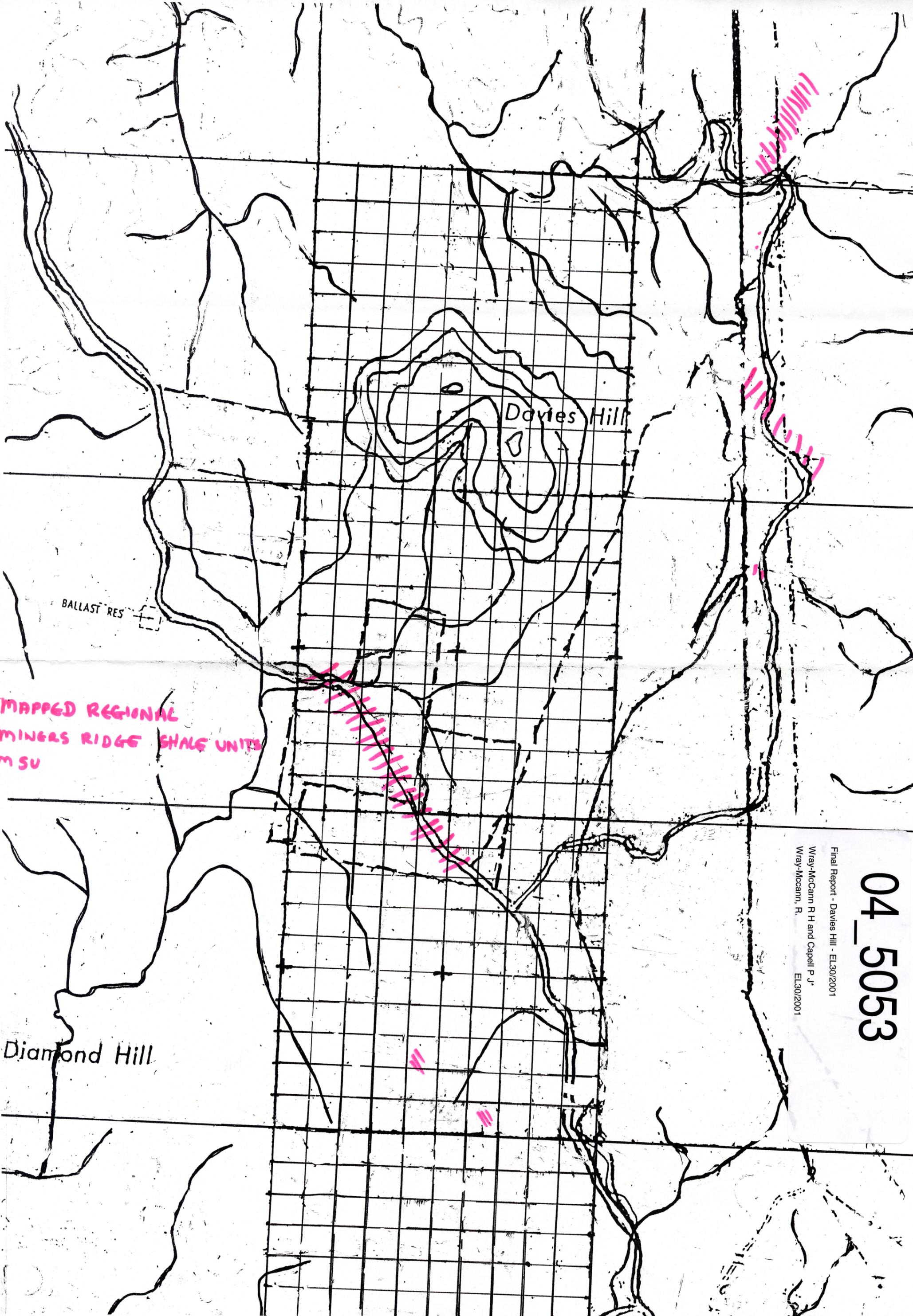
E379

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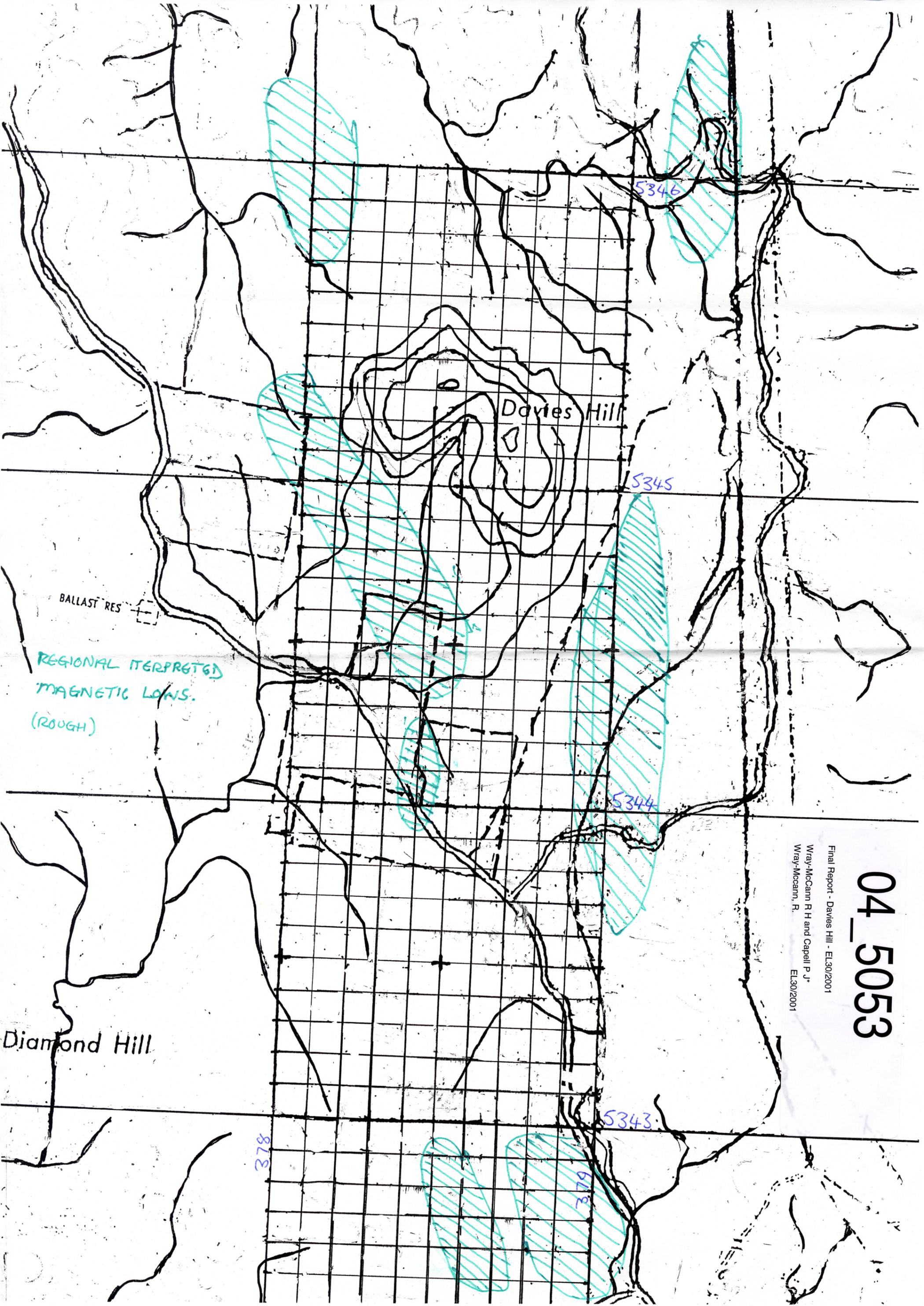


Davies Hill

BALLAST RES

MAPPED REGIONAL  
MINERS RIDGE SHALE UNITS  
MSU

Diamond Hill



REGIONAL INTERPRETED  
MAGNETIC LANS.  
(ROUGH)

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Diamond Hill

BALLAST RES.

5346

5345

5344

5343

378

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