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**The Shell Company of Australia Limited
Coal Division**

CEPR 22/82

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THE SHELL COMPANY OF AUSTRALIA LIMITED

AND

INDUSTRIAL & MINING INVESTIGATIONS PTY. LIMITED

EXPLORATION LICENCE 5/61 (GRAY)

QUARTERLY RÉSUMÉ

24/2/82 to 23/5/82

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C.L. PATTERSON

JULY 1982

Resume of Exploration Activities in E.L. 5/61 (Gray)24-2-82 to 23-5-82Summary

Exploration activities have centred primarily on the northern sector of the EL in the Mt. Nicholas and Harefield areas. Three drilling rigs have been retained in these areas since early March, implementing slim core programmes described in the previous report. These programmes are at an advanced stage, 2314m of mainly NQ drilling having been completed, of which approximately 76% was cored. Additional exploration activity has been undertaken in the Douglas River, Mt. Paul and Mt. Elephant areas involving surface mapping and the resampling of old prospect adits.

Douglas River

A drill hole underway at the time of the previous report (GY105) was completed at a depth of 346.6m, and a core obtained from a 5.25m intersection of the combined Upper and Lower plies of the D Seam. The hole was geophysically logged several weeks later when a unit became available, along with three others in the area (GY27, 103 and 104) which were reopened for the purpose. Site rehabilitation measures have been commenced. Survey control was established in the area, and six boreholes in the area of potentially economic coal accurately located and levelled. Reconnaissance geological mapping of the area has been completed.

Harefield

The drillhole programme outlined in the previous report is well advanced, 23 fully cored NQ holes having been drilled on a 400m grid over the main area of the deposit for a progressive metreage of 673m. No analytical results have yet been received. Some problems are being occasioned with hole conditions so that core recoveries are in some cases low, and not all bores can be geophysically logged. Geotechnical samples of overburden and interburden materials are being obtained from selected bores.

All bores are being accurately located on previously surveyed grid intersections or are having their co-ordinates and elevations re-determined where accurate placement on the grid is not feasible.

Bore numbers for this programme so far are GY110-115, 118, 125, 126, 129, 131, 134, 139, 140, 144, 145, 147-150 and 152-154. All except GY114, 118 and 150 were geophysically logged.

Mt. Nicholas

A total of 23 boreholes have been drilled in the Mt. Nicholas area during the period under review, for a total metreage of 164lm.

Six fully cored NQ boreholes were drilled to maximise Measured Reserves in the area and to further elucidate seam development and structural parameters. These bores were numbered GY106, 108, 119, 123, 132 and 151 and totalled 1056.0m.

A further 16 non-cored bores were drilled on the southern side of Mt. Nicholas to check scree thickness, detailed seam development and structure in the subcrop region of the economic seams, to facilitate selection of possible mine entry sites. These bores were numbered GY109, 117, 120-122, 127, 128, 130, 135-138, 141-143 and 146. Total metreage was 560.2m.

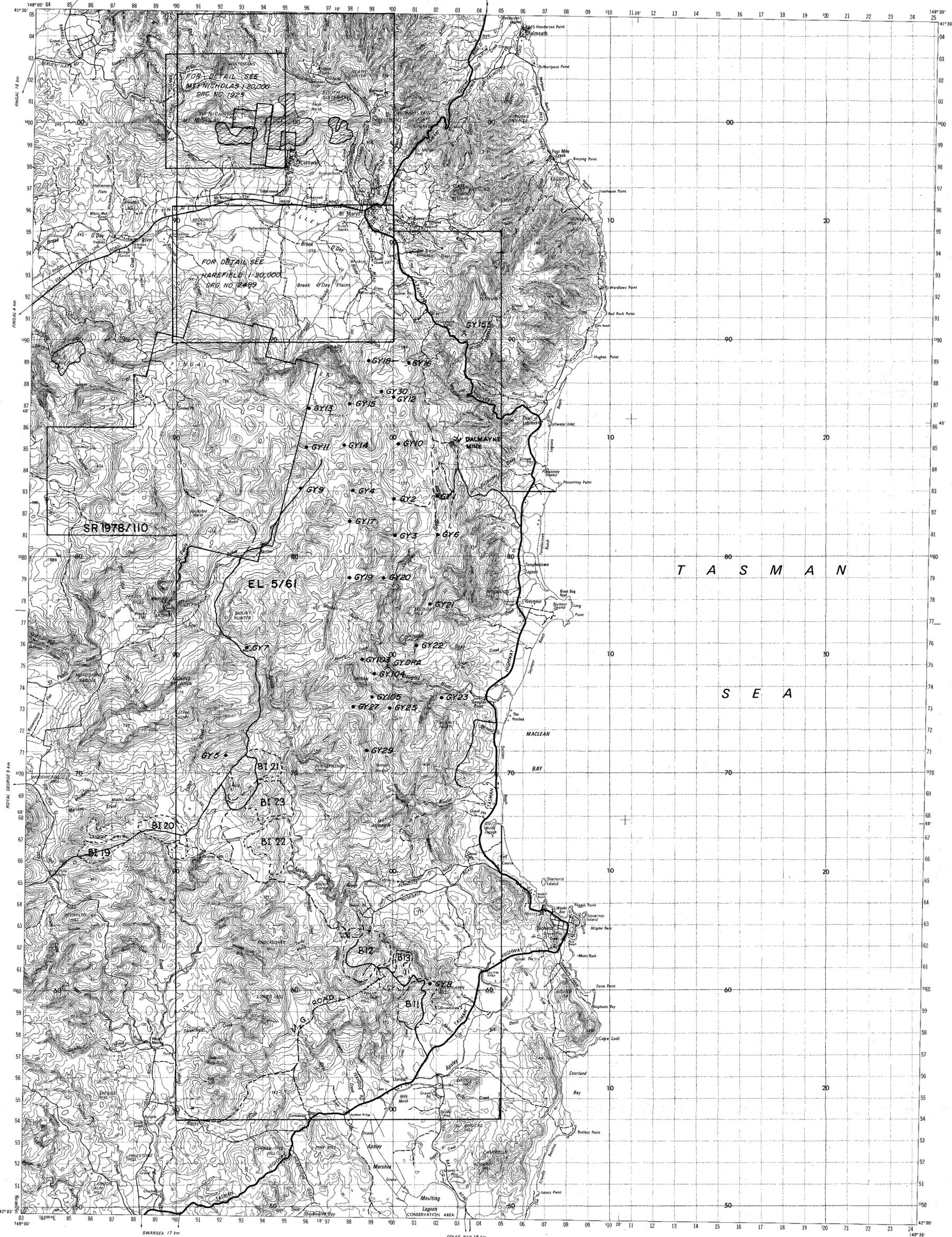
The latest stage of the slim hole programme has been the commencement of cored boreholes for the acquisition of seam analytical and geotechnical information in the immediate areas of possible mine entry development. One 25m borehole has so far been drilled (GY 116).

All of the above bores were accurately located and levelled, and all except GY106, 109, 116, 121 and 146 were able to be geophysically logged.

In addition to the drilling programme summarised, seam samples were obtained from an old shallow shaft found in the Millstream Creek area (GY124). This excavation has been filled in, and rehabilitation of this site and abandoned drill sites has been started.

Other Areas

Surface geological mapping was commenced in the Mt. Elephant area; a strip sample and channel sample were obtained from an old adit near Elephant Pass (GY155).



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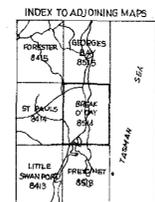
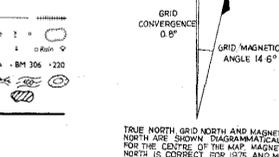


PRODUCED by the Survey Branch, Lands Department, Hobart, under the direction of the Minister for Minerals and Energy, as part of the national mapping programme...

BLACK NUMBERED GRID LINES ARE 1000 METRE INTERVALS OF THE AUSTRALIAN MAP GRID, ZONE 55. GRID VALUES ARE SHOWN IN FULL ONLY AT THE SOUTH WEST CORNER OF THE MAP...

Table with 2 columns: Description and Grid Reference. Includes items like 'TO GIVE A UNIFORM REFERENCE ON THIS SHEET TO NEAREST 100 METRES' and 'GRID REFERENCE'.

Table with 2 columns: Description and Symbol. Lists various features such as 'Built-up area, National route marker', 'Principal road and highway: Cutting', 'Fence: Lease or bank', 'Mine: Windmill, Yard, Quarry', etc.

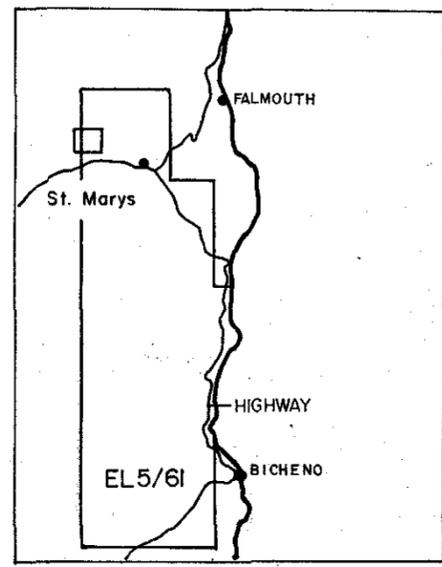
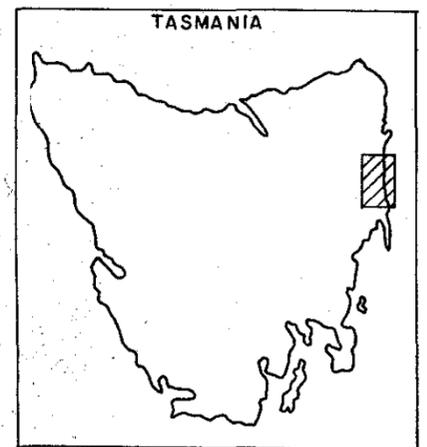
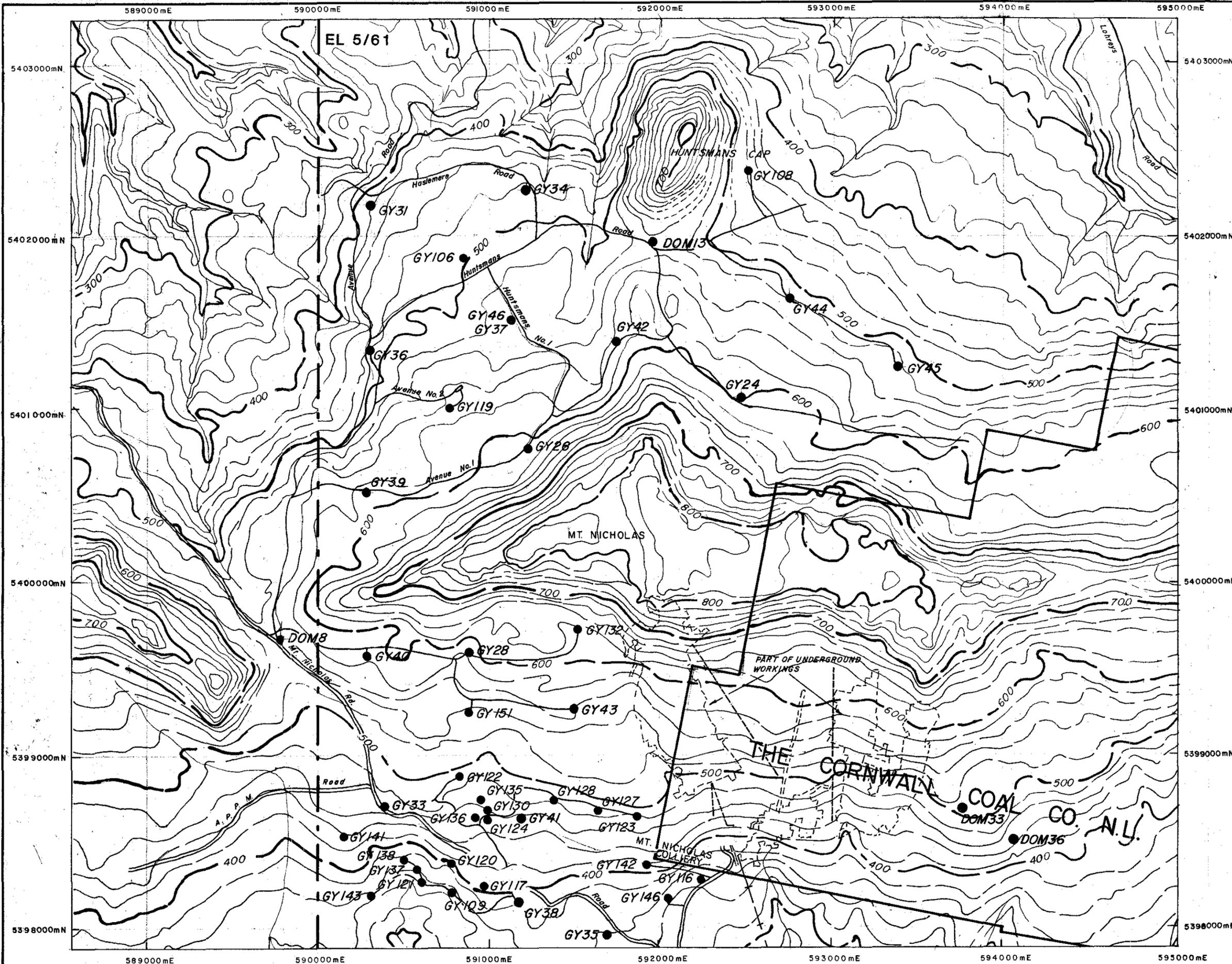


• GY/1 Shell Borehole Existing
• GY/155 Prospect Adit Existing (with Shell sample no.)

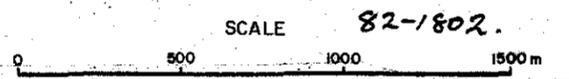
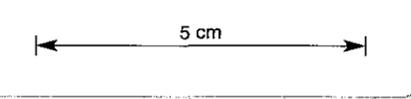
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THE SHELL COMPANY OF AUSTRALIA LTD. TASMANIA BASIN, TASMANIA SHELL - MI EL 5/61 GRAY BOREHOLE LOCATION MAP Author: Coal Division Date: July 1982 Report No: CEPR 22/82 Drawing No: 2516 Encl. 1



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THE SHELL COMPANY OF AUSTRALIA LTD.

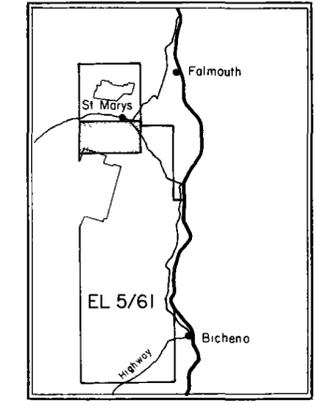
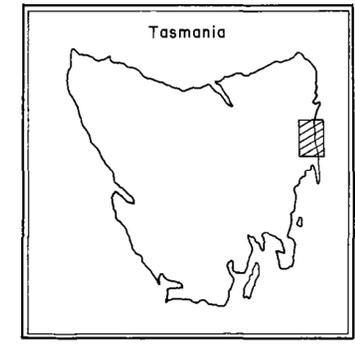
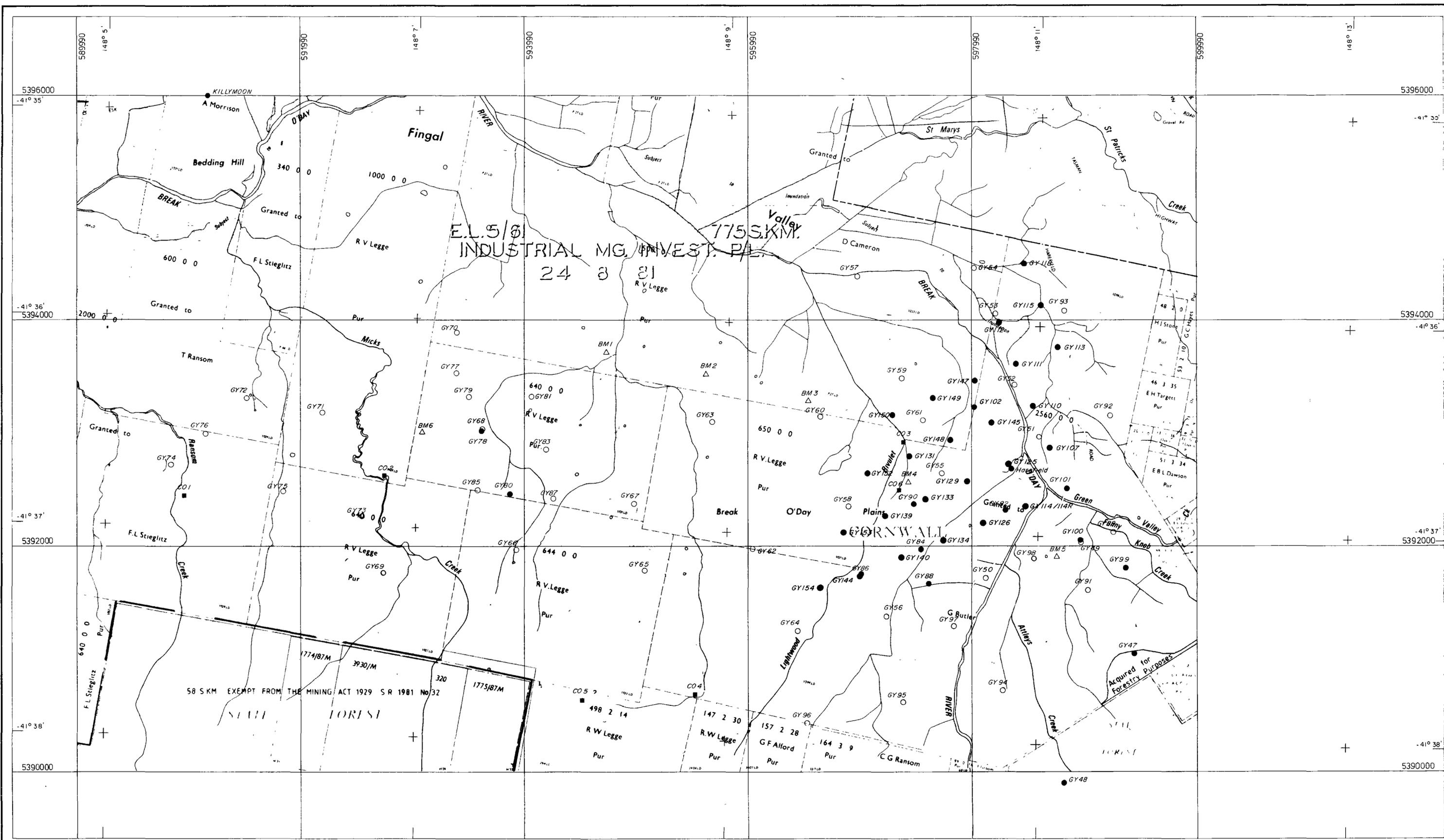
TASMANIA - GRAY EL 5/61
MT NICHOLAS AREA

BOREHOLE LOCATION MAP

Scale 1:20,000

Author: COAL DIVISION	Date: JULY 1982
Report No: CEPR 22/82	Drawing No: 1925

Encl. 2



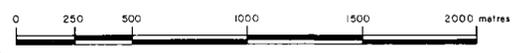
LEGEND

- GY56 Open hole
- GY88 Cored hole
- CO 1 Coal outcrop
- △ BM 1 Bench mark

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5 cm

SCALE 1 20 000



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THE SHELL COMPANY OF AUSTRALIA LTD.
 TASMANIA — GRAY EL 5/61
 HAREFIELD

BOREHOLE LOCATION MAP

Scale 1 20 000

Author Coal Division Date July 1982
 Report No CEPR 22/82 Drawing No 2489

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