

THE SHELL COMPANY OF AUSTRALIA LIMITED

(Incorporated in Victoria)

AND

INDUSTRIAL & MINING INVESTIGATIONS PTY. LIMITED

(Incorporated in the A.C.T.)

OPEN FILE

EXPLORATION LICENCE 5/61 (GRAY)

QUARTERLY RESUME

24/5/82 to 23/8/82

C. Patterson
October 1982

CEPR 34/82

RESUME OF EXPLORATION ACTIVITIES IN EL 5/61 (GRAY) 24.5.82 to 23.8.82Summary

Exploration activities have again been concentrated in the northern sector of the EL, with the completion in July of slim core drilling programmes in the Mt. Nicholas and Harefield areas. The remainder of the review period has been taken up in the correlation of seam intersections, sampling of cores, and commencement of a general evaluation of all data pertinent to the EL.

The announcement in late June of new exploration guidelines including relinquishment requirements, has stimulated the preliminary evaluation of some areas of the EL which have generally been considered less prospective, although not without interest. Reports summarising existing knowledge of the Mt. Elephant and Mt. Paul areas have been commenced. This evaluation has not involved drilling or significant field work in these areas.

Mt. Nicholas

Since the previous report, a further five boreholes have been drilled in the immediate areas of possible mine entry development for the purpose of obtaining geotechnical and further seam analytical information. These bores were cored at NQ and HQ diameter and were numbered GY 157, 164, and 166-168. Additional metreage was 304.3 m, bringing the total metreage drilled during the 1982 programme to 1945.5 m, and the number of bores drilled during the year to 28. All of the additional bores were accurately surveyed and all except GY 157 were geophysically logged.

In addition to the drilling summarised above, a sample of the L2 seam was obtained by trenching from a weathered exposure of the L1 seam in the Millstream Creek area (GY 173). This sample did not represent the area of ideal economic development of the seam, however it was sufficiently large to provide useful float/sink data for the purpose of reserve definition in areas of marginal quality.

Due to poor outcrop, unexpectedly deep weathering, and scree coverage of the margins of the most attractive reserve areas, it was decided that it was not feasible to rely on further subcrop sampling for the acquisition of washery design data, and accordingly a contract has been let for the drilling of large diameter bores at five sites. The sites chosen correspond with the sites of GY 123, 33, 36, 34 and 44, these being known sites of minimal scree thickness and offering control information on seam depth, thickness and quality.

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Slim core drilling in the Mt. Nicholas area was completed at the end of June and work has now passed into an evaluation stage. This will continue for the next quarter, with field work being limited to supervision of the large diameter drilling programme and the gathering of environmental base data for a feasibility study to be completed later this year.

Harefield

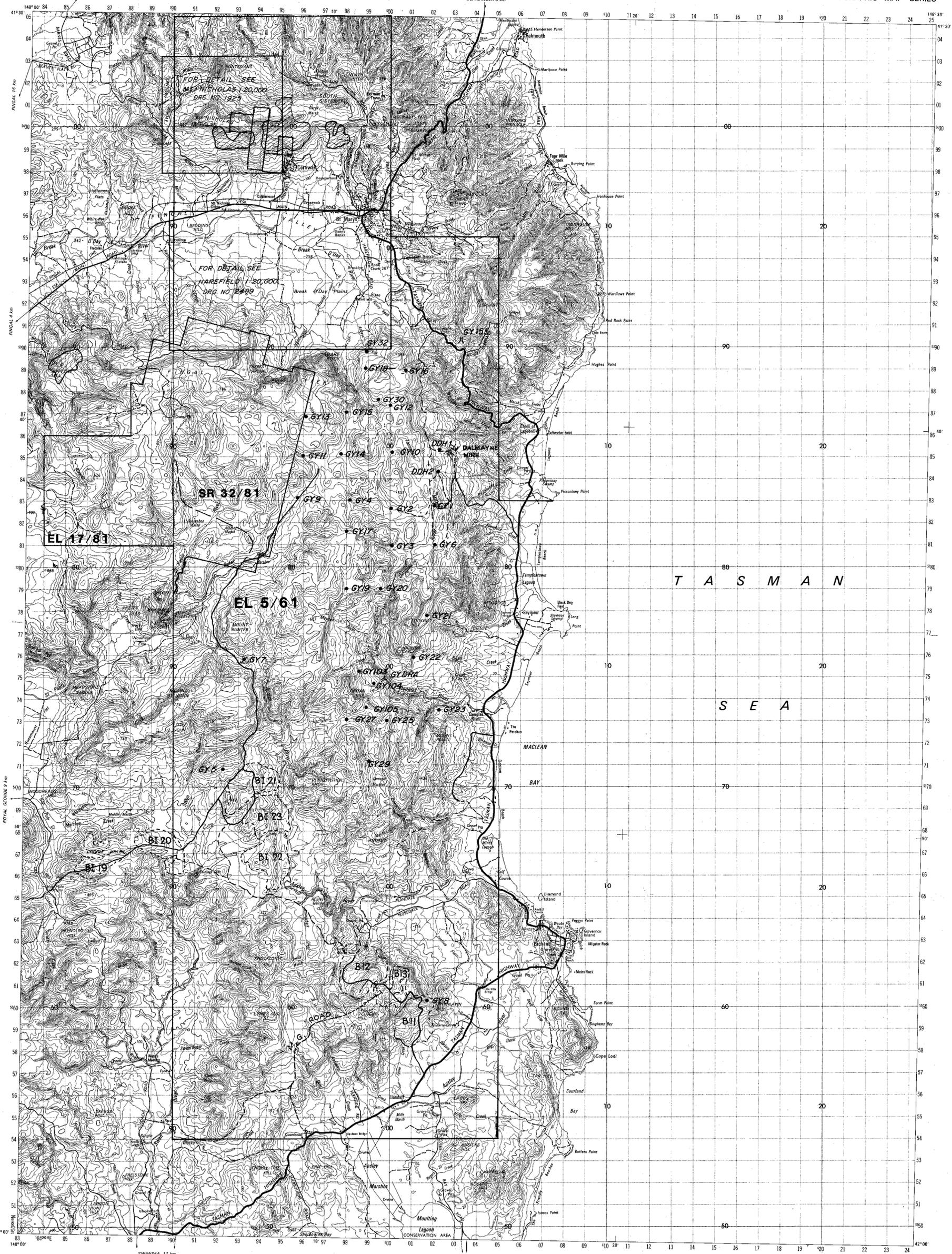
Since the previous report a further 14 fully cored NQ boreholes have been drilled, involving an additional metreage of 456.9m. This completed the programme scheduled for 1982 and brought the total number of boreholes in this programme to 38, with an aggregate metreage of 1129.9 m. The additional boreholes were numbered GY 156, 158-163, 165, 169-172 and 114 Redrill. All bores have been accurately located on the surveyed 400m grid or resurveyed in locations where this was not practical.

Indications were not sufficiently encouraging to extend the programme into the western end of the area, where the limits of coal offering acceptable stripping ratios appear to be restricted by adverse topography and faulting.

Some problems were experienced with hole conditions, so that core recoveries in some seam intersections were low, and not all bores could be geophysically logged.

Proximate analyses received to date confirm subjective impressions that the seam quality is generally marginal, and that economic viability will be determined by the results of float/sink testing, which have yet to be received. In view of the possibility that these results will indicate that the area is not a viable mining proposition, no large diameter drilling or bulk sampling is presently planned.

The project has now passed into an evaluation stage and no fieldwork is planned for the following quarter.



SCALE 1 : 100000

• GY/ Shell Borehole Existing
∩ GY/55 Prospect Adit Existing (with Shell sample no.) 674004

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. PRINTED by authority of the Minister for Minerals and Energy, 1975. DISTRIBUTED by the Department of Minerals and Energy. A state edition is available from the Lands Department, Hobart.

MAP ACCURACY: The average accuracy of this map is ± 15 metres in the horizontal position of red defined control and ± 5 metres in elevation. MAP RELIABILITY: Topographic information shown on this map is correct to 1975. ROAD CLASSIFICATION: Roads are classified according to their intended function as part of the national road system.

GRID REFERENCE

TO GIVE A UNIQUE REFERENCE ON THIS SHEET TO NEAREST 100 METRES

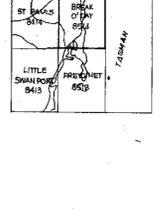
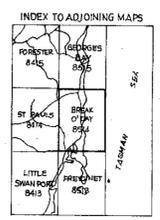
IGNORE THE SMALLER figures of any grid number, these are for finding the full co-ordinates. Use ONLY the LARGER figures of the grid number, e.g. 8900

SAMPLE POINT: 778 a MOUNT ST JOHN

1. Quote this 1:100 000 map sheet	8514
2. Locate true NORTH grid line to LEFT of point and read LARGE figures labelling the line either in the top or bottom margin, or on the line itself	80
3. Estimate tenths from grid line to point	78
4. Locate first HORIZONTAL grid line BELOW point and read LARGE figures labelling the line in either the left or right margin, or on the line itself	73
5. Estimate tenths from grid line to point	4
SAMPLE REFERENCE:	8514-802739

- Built-up area: National route marker.....
- Principal road and highway: Cutting.....
- Secondary road: Embankment.....
- Minor road: Road bridge.....
- Vehicular track.....
- Gate: Cattle grid.....
- Railway, multiple track: Station; Railway bridge.....
- Railway, single track: Railway tunnel.....
- Light railway or tramway.....
- Power transmission line.....

- Fence: Levee or bank.....
- Mine: Windmill; Yard; Quarry.....
- Building's: Church; Ruin; Drive-in theatre.....
- Trip station; Beach mark; Spot elevation.....
- Cliff: Contour with value; Depression contour.....
- Abandoned Mine Workings.....
- Exploration Licence and State Reserve Boundary.....

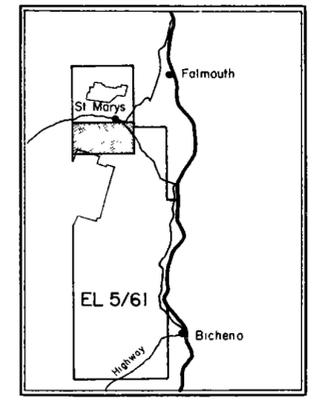
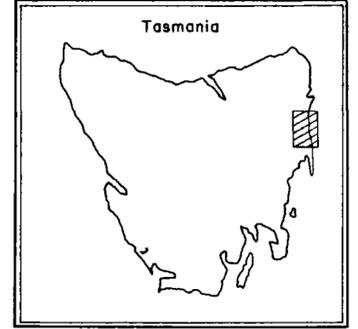
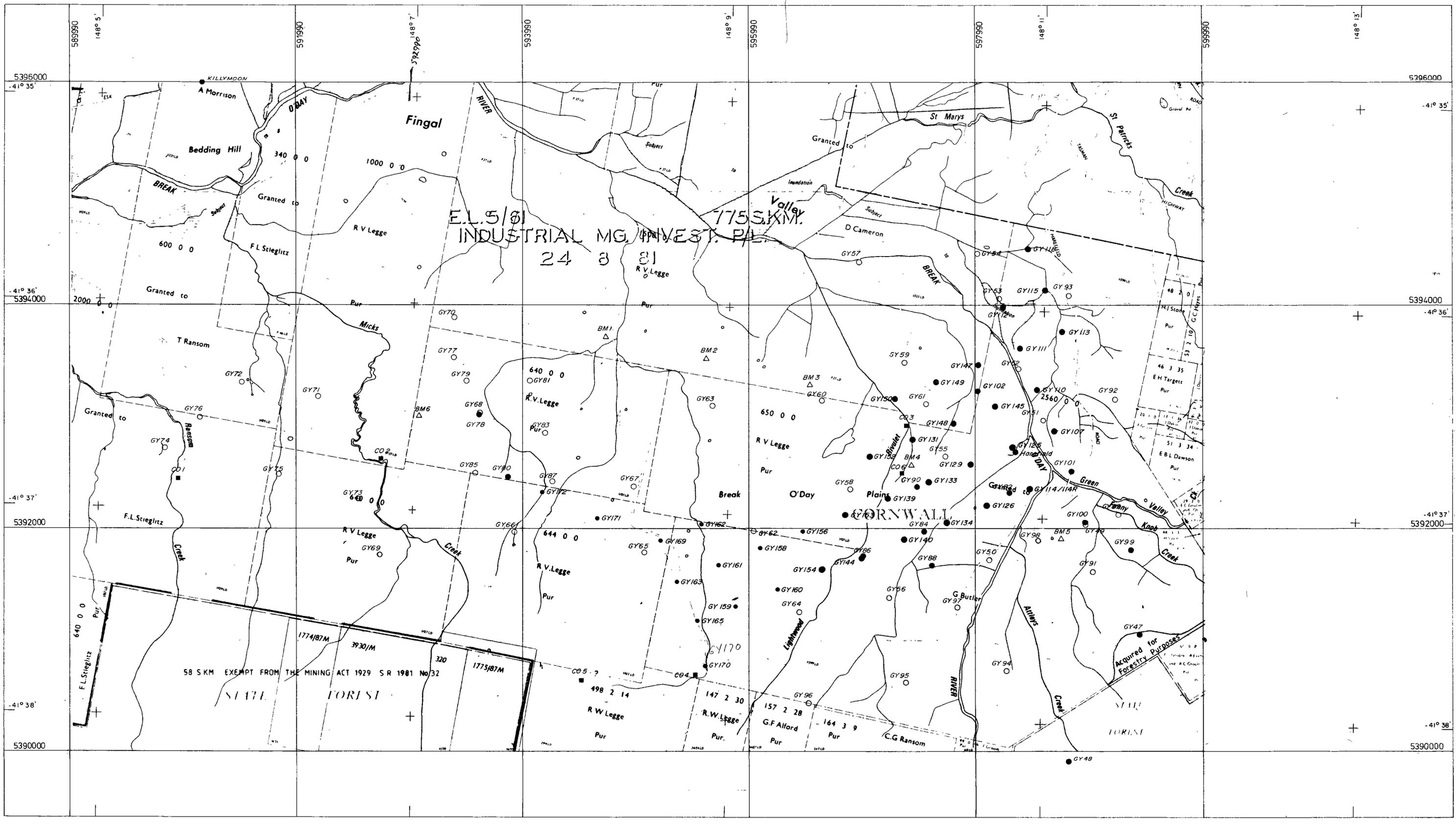


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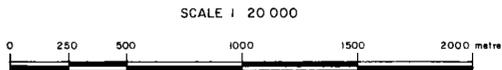
TASMANIA BASIN, TASMANIA
SHELL - MI EL 5/61 GRAY

BOREHOLE LOCATION MAP



LEGEND

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



5 cm

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TASMANIA - GRAY EL 5/61
HAREFIELD

BOREHOLE LOCATION MAP

Scale 1 20 000

Author Coal Division	Date Oct. 1982
Report No CEPR 34/82	Drawing No 2489

Encl. 2

