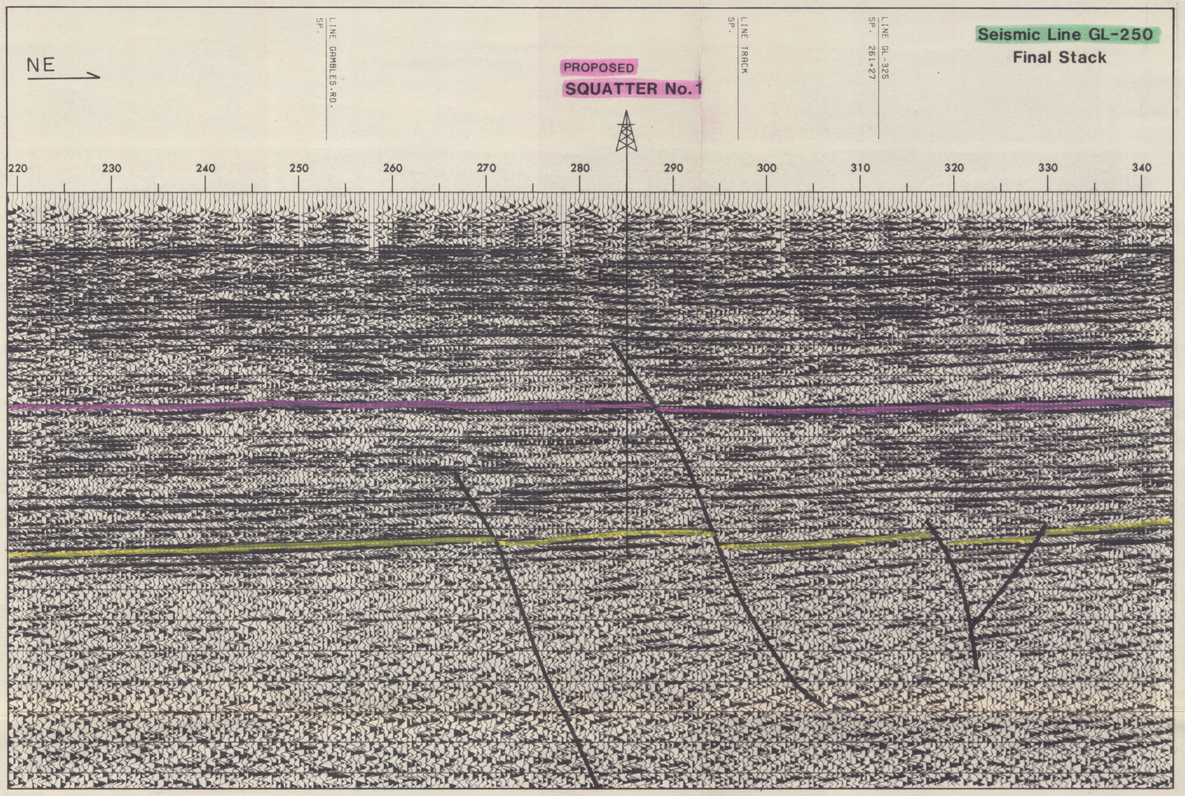
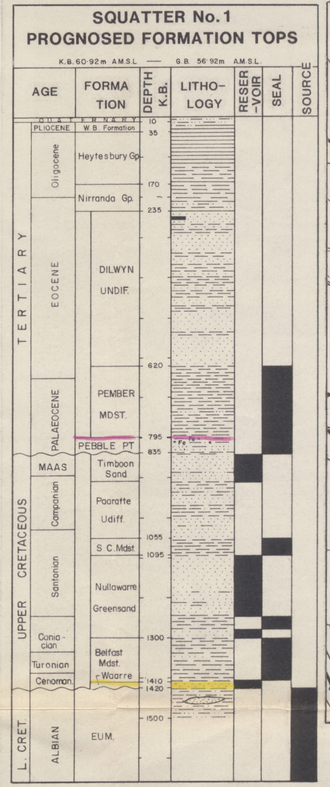
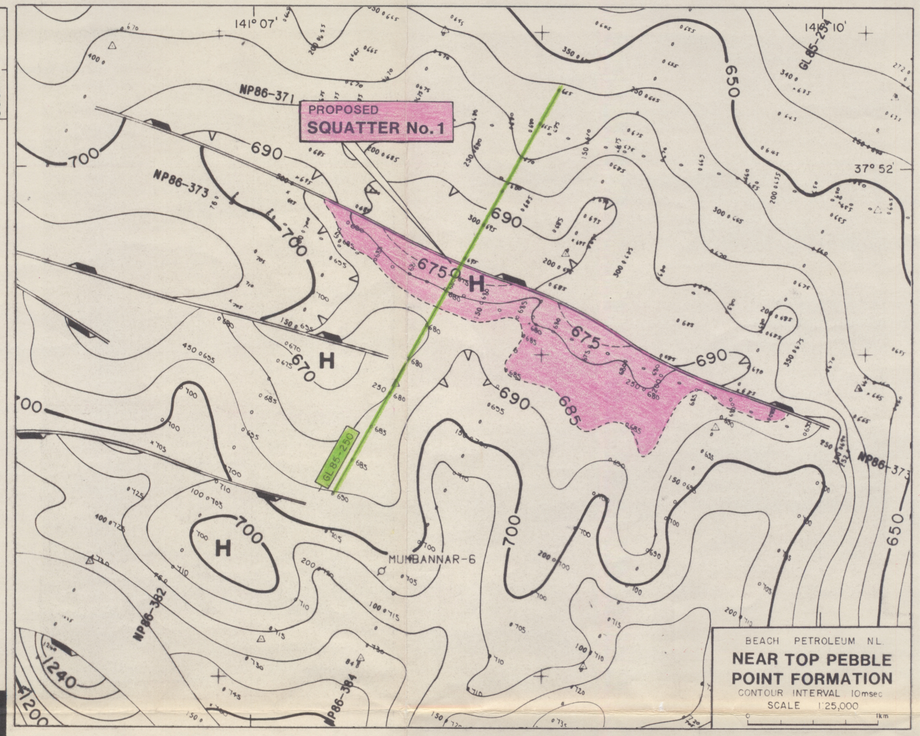
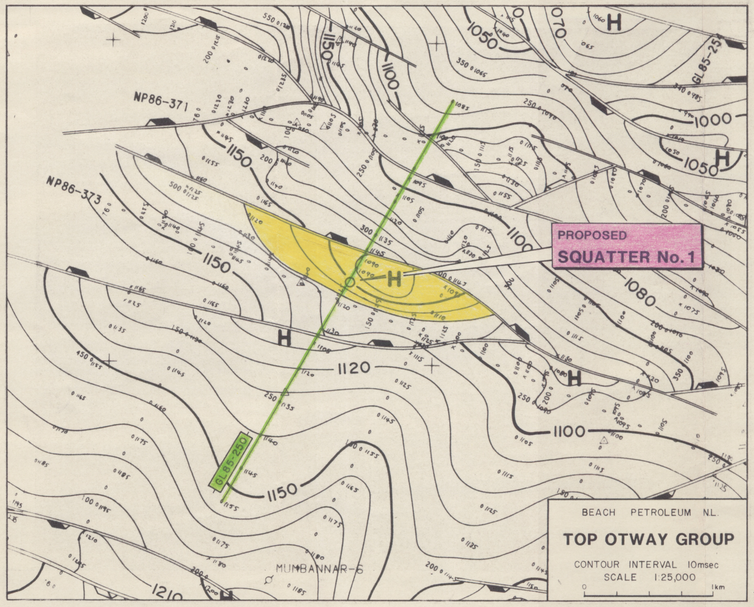








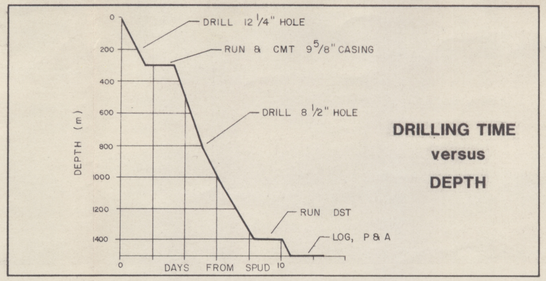
JUSTIFICATION

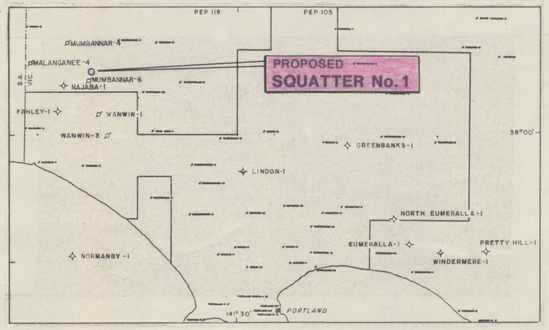
Squatter No. 1 well is designed to test the basal Upper Cretaceous "Waarre" Sandstone reservoir which has exhibited porosities in excess of 15%. Secondary targets include the Upper Paaratte Timboon Sand and the mid Paaratte Nullawarre Greensand, both of which are expected to have excellent reservoir characteristics.

The seismically defined structure is a southerly tilted minor horst block on the relatively stable Mumbannar Platform. The trapping mechanism is a down-to-north normal fault that juxtaposed thick seal units against all prospective reservoirs.

Hydrocarbons generated within the Lower Cretaceous Eumeralla Formation, the major source of hydrocarbon within the Portland Trough, are expected to have migrated along the Tartwaup Fault and then laterally from the fault. These hydrocarbons would then have accumulated in traps up-dip from the fault.

The Squatter feature is the first prospect north of the Tartwaup Fault in this area, hence its excellent chances of accumulating these migrating hydrocarbons in commercial quantities. The hydrocarbon generative potential of the source and the migration of it to shallower reservoirs have been proved by previous wells, e.g. Lindon-1, Windermere-1, Curdie-1 and Fahley-1.





BEACH PETROLEUM N.L.

WITH DRILLING PROGRAM

PROSPECT NAME : **SQUATTER No. 1**

06 MAY 1987
PETROLEUM DIVISI

Total Depth : 1490m Elevation : 56·92m

Classification : WILDCAT

Location : Latitude. 37°52'26·0" S Longitude. 141° 08' 09·0" E
Seismic Line. GL85-250 Shotpoint No. SP 285

Reservoir Target : Primary. WAARRE SANDSTONE Depth. 1410 m
Secondary. TIMBOON SAND Depth. 835 m

Area of Closure : Primary. 0·75 km^2 Vertical Closure : Primary. 52m
Secondary. 3 km^2 Secondary. 20m

Estimated Reserves : Nett Thickness. Primary. 10m
Secondary. 10m
Porosity. Primary. 15 %
Secondary. 20 %

In Place Reserves : Primary. $1·46 \times 10^6$ bbls. (NOTE: The oil saturation taken as 55%)
Secondary. $5·97 \times 10^6$ bbls.

Significant Nearby Wells : NAJABA-1 6 km : FAHLEY-1 10·5km :
WANWIN-1 9 km : LINDON-1 40 km

Significant Nearby Facilities / Markets : GEELONG 285km E : PORTLAND 66km SE :
MT. GAMBIER 30 km W

Estimated Cost : Dry Hole. $ 432,550
Discovery.

DEPT. NAT. RES & ENV
PE903746

AUTHOR : A. TABASSI		GEOPHYSICAL INTERP. : M. McNICOL	
DATE : APRIL 1987	DRAFTSMAN : N. Reynolds	DRG. No. : OT 3615	

BASE MAP M15