WCR for.... Darlington-1, Pura Pura-1, Carranballac-1

Natural Resources and Environment

AGRICULTURE • RESOURCES • CONSERVATION • LAND MANAGEMENT

WCR for....

* Darlington-1 (W594A)

* Pura Pura-1 (W596A)

* Carranballac-1 (W597A)

1 Folio No	2 Referred to	3 Date	4 Clearing Officer's Initials	1 Folio No.	2 Referred to
	Otway Onshore				
	For Permit Area:				
	PEP/76				

FILE COVER INSTRUCTIONS FOR ACTION OFFICERS

(1) FOLIO NUMBERS: Each subject paper attached to a file is to be given a consecutive number by the attaching officer. Papers must not be removed from or attached to a file without approval.

(2) REFERRAL TO OTHER OFFICERS: When an Officer completes action on the file and further action is required by some other Officer, please initial Column (4) and on the next vacant line, enter the relevant folio number in Column (1), indicate to whom the file is to be forwarded in Column (2) and record the date in Column (3).

(3) BRING UP MARKINGS: When action on a file is required at a later date, the officer will initial Column (4) and, on the next vacant line, enter the relevant folio number in Column (1), then write "B/U" followed by the action officer's name in Column (2) and the date the file is required in Column (3).

(4) PUTAWAY MARKINGS: When ALL action on a file is completed the officer concerned will initial Column (4) and, on the next vacant line, write "P/A" in column (2).

REGISTRY MUST BE NOTIFIED OF ANY FILE MOVEMENTS BETWEEN OFFICERS

APPENDIX I

INTERSTATE OIL LIMITED

WELL COMPLETION REPORT

DARLINGTON No. 1

W594A

WCR for.....

DARLINGTON-1

PURA PURA-1

CARRANBALLAC-1

INTERSTATE OIL LIMITED

FINAL REPORT

T.E.P. 76

V I C T O R I A

3 SCOUT DRILL HOLES:-

DARLINGTON - 1 W594A

PURA PURA - 1 W596A

CARRANBALLAC - 1 W597A

Melbourne
October, 1970.

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ENCLOSURES

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P.E.P. 76, VICTORIA - FINAL REPORT

INTRODUCTION

Petroleum Exploration Permit No. 76 comprising some 1,310 square miles in the Darlington - Skipton area of Western Victoria was granted to Interstate Oil Limited for a period of two years as from 1st February, 1970.

The permit area is situated on the northern margin of the Otway Basin, a sedimentary accumulation of Mesozoic and Tertiary age considered prospective for petroleum occurrence.

A reconnaisance gravity survey carried out by Frome-Broken Hill Company during 1963 covered portion of P.E.P. 76 and preliminary interpretation of this data indicated an anomalous gravity minimum situated in the central portion of the permit area. A possible explanation of this gravity minimum was the presence of an isolated sedimentary trough or embayment since gravity minima in the Port Campbell and Tyrendarra areas to the south were known to correspond to areas of thicker sedimentary section.

Non prospective pre-Mesozoic rocks outcrop on the northern, eastern and western margins of P.E.P. 76 but the central portion of the permit is covered by recent basalts. Shallow basement was known to be present beneath basalt cover near Derrinallum but no information was readily available from water bores drilled in the area of the main gravity minimum to indicate the nature of the sub-basalt lithology.

An early Geological Survey Report (Murray, 1883) recorded the presence of coal seams within steep dipping sediments below thin basalt cover near Skipton at the northern end of the gravity minimum and this gave support to the proposal that a sedimentary trough may exist in the permit area.

EXPLORATION ACTIVITIES

1. Geological:

The general surface geology of the area has been mapped by officers of the Victorian Mines Department and is incorporated in the preliminary edition of the 1:250,000 Ballarat Sheet.

A review of available literature relating to the geology of the area was undertaken and field reconnaisance carried out including an unsuccessful attempt to relocate the site of shafts near Skipton in which Murray had reported coal seams.

During the geological evaluation it was observed that the area of the gravity minimum occupies a topographic low relative to surrounding areas and is roughly flanked by a series of volcanic eruption centres and scoria cones. It was considered that these surface indications could be related to the presence of a small graben in the area of main interest.

A detailed study of available boring records was carried out and revealed that none of the Mines Department or private water bores within the zone of the gravity minimum had penetrated through the base of the surface basalts.

2. Geophysical:

No geophysical surveys were undertaken.

A review of the earlier Frome-Broken Hill reconnaisance gravity survey was made and this information was integrated with results from a detailed gravity survey carried out by Shell/Frome late in 1969 in the area immediately to the south of the southern boundary of the permit.

This review confirmed that a significant gravity minimum existed in the central portion of PEP 76 with the minimum axis trending north-easterly from a position some 6 miles west of Darlington on the southern margin to a position some 2 miles north of Skipton in the north-easterly quadrant.

The recent Shell/Frome survey suggested a possible connection from the Darlington area to the Port Campbell Embayment via a weak gravity trough with axis situated about 2 miles west of Mortlake.

It was recognised that the intensity of the gravity low in the Darlington - Skipton area is repeated elsewhere in the Otway Basin in only two areas viz. the Torquay Sub-basin and the Port Phillip Embayment.

3. Drilling:

Three scout drill holes were drilled to investigate the cause of the gravity minimum.

Darlington No. 1, Pura Pura No. 1 and Carranballac No. 1 were drilled to depths of 359 feet, 345 feet and 495 feet respectively.

For convenience of access the wells were sited adjacent to the shire road from Darlington to Carranballac which transects the gravity minimum obliquely. They were located 2.5 miles north of Darlington, 2.5 miles north of Pura Pura and 4 miles south-southwest of Carranballac respectively. The two former wells were sited on the eastern side of the road reserve and the latter on private property adjacent to the eastern side of the road reserve.

A fourth hole had originally been proposed situated midway between Darlington and Pura Pura but this was not proceeded with due to considerable drilling difficulties encountered in drilling, the other holes and the geological information already obtained from these earlier holes.

Detailed results of the information obtained in the drilling of the three scout holes are attached hereto as appendices. A complete set of cuttings samples which were collected at 10 feet intervals will be lodged with the Mines Department Core and Cuttings Laboratory.

4. Summary of Stratigraphic Data obtained from Drilling:

The Pleistocene to Recent basalts and/or Volcanics thicken northwards from 125 feet at Darlington No. 1 to about 260 feet at Pura Pura No. 1 and Carranballac No. 1.

Below the basalt each of the three holes encountered a section of predominantly quartzose clastics which was 173 feet thick in Darlington No. 1 and 152 feet thick in Carranballac No. 1.

In Darlington No. 1 this clastic sequence is marginal marine in character and in part the fine quartz grains are cemented by calcite forming friable sandstone which exhibits finescale cross-bedding. Macro fossils recovered in the lower portion of the sequence suggest a lower to middle Miocene age (personal communication, T. Darragh - Nat. Museum). Microfossils include foraminifera suggesting lower Miocene (lower Longfordian) and Pliocene (Whaler's Bluff) age (C. Abele - V.M.D.). Cap/

In Pura Pura No. 1 and Carranballac No. 1 the quartzose clastics are non marine in character being noticeably lignitic in Carranballac No. 1 from which well a microfloral assemblage indicates a lower Miocene to Oligocene age (J. Douglas - V.M.D.). Cap/

Below the Tertiary quartzose clastics in Darlington No. 1 approximately 50 feet thickness of granitic wash and weathered granite was penetrated and finally fresh, hard, biotite granite was encountered at 350 feet hole depth.

In Carranballac No. 1 a section of 85 feet thickness of felspathic quartz grit was penetrated to total depth. This grit is very angular with some composite quartz-felspar grains and traces of mica suggesting derivation from a nearby granitic source. It shows remarkable similarity to present day surface granitic wash and weathered granite overlying granite outcrop in the Flagstaff Hill area immediately to the east of Skipton. It is considered that granite basement would occur at little below total depth in the Carranballac No. 1 well.

CONCLUSIONS AND RECOMMENDATIONS

The stratigraphic information obtained from the three scout drill holes reveals that a narrow, shallow trough of Tertiary quartzose clastic sediments extends northwards into P.E.P. 76 from the Darlington area toward Skipton beneath surface basalt cover. These Tertiary sediments are somewhat thicker than would be predicted from the known subsurface geology of the adjoining Derrinallum - Lismore area but are of insufficient thickness to adequately account for the gravity minimum anomaly.

The well information suggests that the Upper Tertiary marine shoreline was situated close to the Darlington No. 1 well and probably considerably south of Pura Pura No. 1.

It appears most unlikely that any lower Tertiary or Mesozoic sediments extend northward into the limits of P.E.P. 76.

The gravity minimum may be produced by a combination of the following factors:

(1) variation in thickness and/or density of surface basalts and volcanics, (minor effect only),

(2) variation in thickness of pre-basalt sediments (probably minor effect only)

(3) variation in basement lithology.

It is possible that the pre-basalt sediments thicken slightly in a position about 3 miles northwest of Darlington No. 1 but it can be confidently assumed that the thickness and/or areal extent of sediments is insufficient to justify additional petroleum effort - in the area of P.E.P. 76.

It is recommended that P.E.P. 76 be relinquished.

R.B. LESLIE

WCR

Darlington-1

(W594A)

APPENDIX I

INTERSTATE OIL LIMITED

WELL COMPLETION REPORT

DARLINGTON No. 1

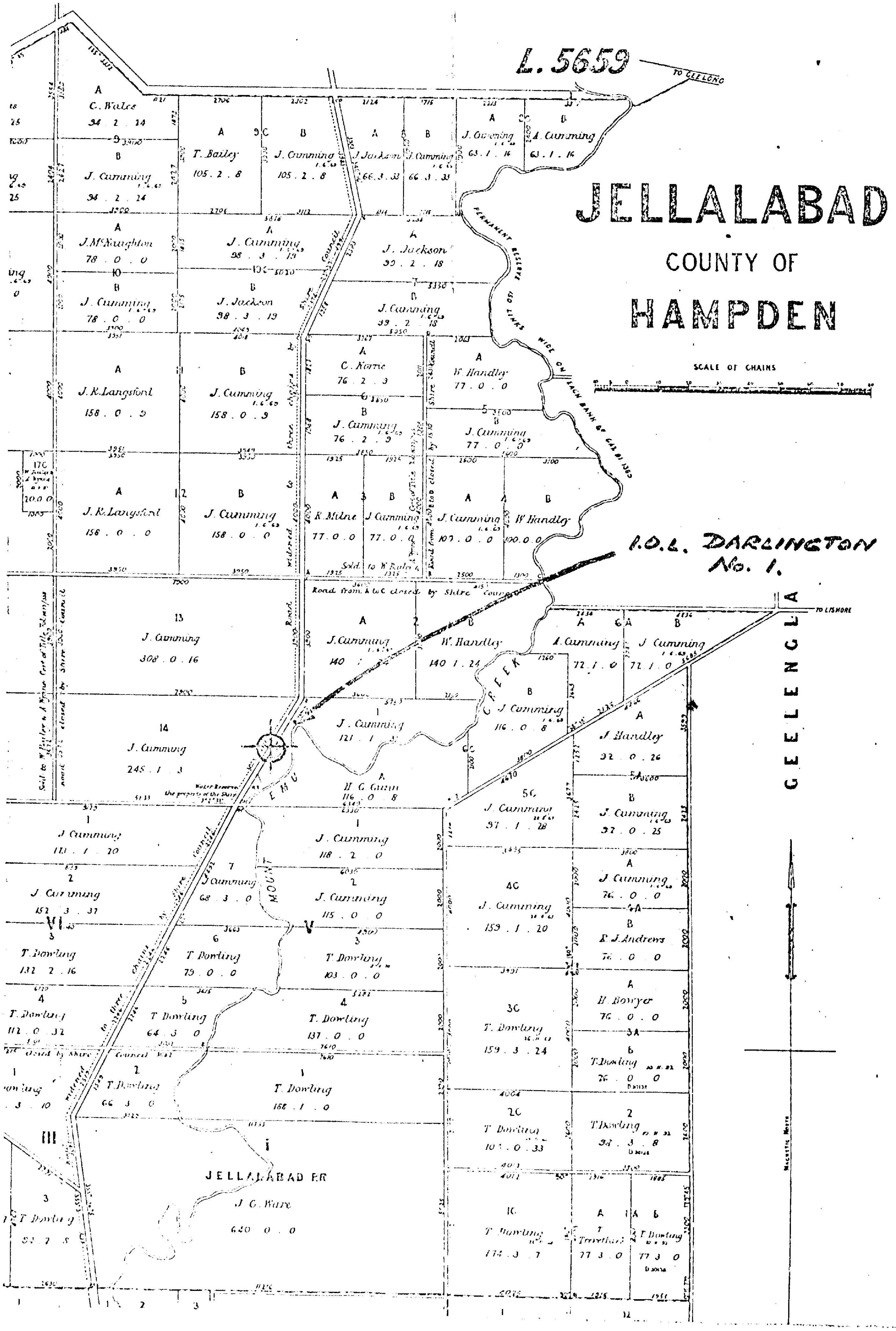
W594A

DARLINGTO
Darlington -
WCR

Darlington - 1

GENERAL DATA

Well name and number	:	Darlington No. 1
Name and address of Operator	:	Interstate Oil Ltd. 95 Collins Street Melbourne. Vic. 3000.
Tenement Holder	:	Interstate Oil Ltd.
Petroleum Tenement	:	PEP 76
District	:	Ballarat (1:250,000, SJ 54-8)
Parish	:	Jellalabad
Location	:	Approx. co-ordinates, 37°57'40"S. 143°03'18"E. (See locality plan attached)
Elevation	:	Not determined - approx. 550'
Total Depth	:	359'
Date drilling commenced	:	17th June, 1970
Date total depth reached	:	26th June, 1970
Date rig released	:	28th June, 1970
Status	:	Abandoned
Drilling Contractor	:	W.L. Sides & Sons Pty. Ltd.
Drilling Plant	:	"Schramm" Model T64 H-B
Drilling Fluid	:	Compressed air
Total Cost	:	Approx. $3,150


L. 5659
TO GEELONG
JELLALABAD
COUNTY OF
HAMPDEN
SCALE OF CHAINS
PERMANENT RESERVE 151 LINKS WIDE ON EACH BANK OF GAZ. 81 1865
I.O.L. DARLINGTON No. 1.
TO LISMORE
GEELENGLA
EMU CREEK
MOUNT
JELLALABAD FR
J. G. Ware
640 . 0 . 0
Road from A to C closed by Shire Council
Magnetic North

INTERSTATE OIL LIMITED

Drillers Log — Darlington #1

0 — 20'	Basalt
20' — 40'	mainly clay
40' — 60'	Weathered basalt (water at 60'
60' — 96'	Basalt hard, with few soft bar
96' — 100'	Sandy gritty clay
100' — 102'6"	Basalt
102'6" — 110'	Green grey + buff gritty clay.
110' — 125'	Basalt
125' — 130'	Yellow brown gravel + sand
130' — 160'	Mainly fine sand
160' — 170'	Some lumps of sandstone
170' — 224'	Mainly fine sand with some green grey clay
224' — 225'	hard band ? ironstone
225' — 230'	? brown clay
230' — 298'	mainly fine sand. hard band at 298'
300' — 332'	Sand with shell fossils
332' — 334'	hard band
334' — 340'	Sand.
340' — 350'	hard formation
350' — 359'	very hard formation

INTERSTATE OIL LIMITED

Cuttings Description — Darlington #1

Footage	
0 — 10	Basalt, medium light grey, finely xtalline, reticulate intergrowth with vesicular cavities
10 — 20	Basalt light to medium grey, finely xtalline, vesicular, weathering to light brown + tan.
20 — 30	Basalt, medium light grey but mostly weathering to tan and rusty brown. trace pale red brown clay
30 — 40	Basalt, as above
40 — 50	Basalt, medium light grey weathering to tan, rust brown and mauve, rounded vesicules with infillings calcite and zeolite minor light brown clay
50 — 60	Basalt, medium light grey, mostly weathering to pale yellow brown. (water ingress at approximately 60' depth).
60 — 70	Basalt, dark grey, hard, dense also weathered basalt as above minor pale red brown to light brown gritty cla trace limonitic material
70 — 80	Basalt, dark grey, hard, dense.
80 — 90	Basalt, medium dark grey weathering to red brown. Abundant calcite colorless to pale lemon infilling vesicles and as veins minor red brown gritty clay

INTERSTATE OIL LIMITED

Darlington 1

90 – 100 Basalt, medium dark grey weathering to greyish brown, some calcite veins
Clay, red brown, gritty.

100 – 110 Basalt, medium dark grey, weathering to grey brown, some calcite veins.
Clay, red brown, pale grey to green and mauve, gritty with some coarse granules quartz

110 – 120 Clay, pale green grey, grey-white and buff, very gritty with some coarse granules quartz
Basalt medium dark grey weathering to red brown. Some calcite veining.

120 – 130 Basalt light grey to medium dark grey weathering to yellow brown, vesicular in part.
Clay mainly buff, very gritty.

Sand, fine to medium grained, angular to well rounded, predominantly clear quartz with yellow brown surface staining.

(Drilling break at 125' depth and water ingress increased to approx 1000 g.p.h.

130 – 140 80% Sand, unconsolidated, yellow brown, fine to medium grained, angular to well rounded, mainly clear quartz with fe. staining to well polished, minor chert polished limonite grains.
trace limonitised fossil fragments.
10% Clay, pale grey white, soft.
10% Basalt cavings.

140 – 150 Sand unconsolidated, yellow brown, very fine to medium grained, angular to well rounded, mainly well polished none fe. staining.
Consists 80% quartz colorless, white, yellow brown, pink, mauve.
20% chert, lithics and limonite
strong trace clay, grey white, soft.
trace fossil fragments.

150 – 160 as above

160 – 170 50% loose sand as above.
30% sandstone, pale buff, very fine grained with "salt & pepper" texture, predominantly quartz with dark heavy mineral bands, Calcite cement
trace fossil fragments

10% Sandstone, tan to dark brown, fine to medium grained quartz & lithics with limonitic clay cement

10% Clay, pale grey green, med light grey and mauve, soft.
trace dolomitic limestone, white
trace fossil fragments

170 – 180 as above

180 – 190 50% loose sand as above
10% Sandstone pale buff, as above
10% Sandstone, tan to dark brown, as above
20% Clay grey green to pale grey
10% ? Dolomite, white
trace fossil fragments

190-200	60% loose Sand as above 5% pale buff sandstone, a.a. 5% tan to dk brown sandstone a.a. 30% Clay grey green to pale grey, a.a. trace ? dolomite white trace fossil frags.
200-210	60% loose Sand a.a. 40% Clay grey green to pale grey, lt brow 5% tan to dk brown sandstone a.a. 5% ? dolomite white a.a. strong trace fossil fragments
210-220	as. above.
220-230	60% loose Sand as above 40% Clay greenish grey, med grey, mauve. trace sandstone pale buff & tan trace ? dolomite white trace fossil fragment.
230-240	as above
240-250	as above
250-260	as above
260-270	as above
270-280	80% loose Sand a.a. 10% Clay a.a. 10% fossil fragment trace ? dolomite white a.a.

280-290 as above

290-300 as above

300-310 as above plus some pale grey to pinkish grey feldspar and rare flakes black biotite mica.

(water ingress increased to 1500 g.p.h.

293-304 Special circulation sample obtained during casing operations.

Granitic gravel dirty grey brown, poorly sorted, very fine grained to granule and pebbles of 10 m.m. subangular to well rounded, mainly quartz clear, grey, yellow, some inclusions of biotite and feldspar intergrowths, subordinate feldspar pinkish grey, grey, brown, occasional intergrowth with quartz. Abundant fossils include pelecypods, gastropods, corals to 4 cm across. Some pyrite & marcasite encrusting fossils. Rare fragments limestone coquina and calcareous, limonitic sandstone.

(Water ingress increased to 3000 g.p.h during circulation and was later cut off by advancing casing to 304 feet depth.)

INTERSTATE OIL LIMITED

Darlington 1

310 - 320 70% Granite wash dirty grey brown, fine to medium grained and granules with occasional pebble size. Predominant quartz angular to subrounded, clear, white, grey, occasional inclusions biotite and pyrite, subordinate feldspar pale grey to pinkish grey, sub rounded to rounded, traces of flakes and small 'books' biotite mica

25% Clay, greenish grey and buff, silty.
5% Fossil detrius (? caving)
trace limestone grey white - brown, fossiliferous, trace sandstone ~~dark~~ dirty limonitic also some fresh pyrite cementing quartz grains.

320 - 330 as above

330 - 340 as above

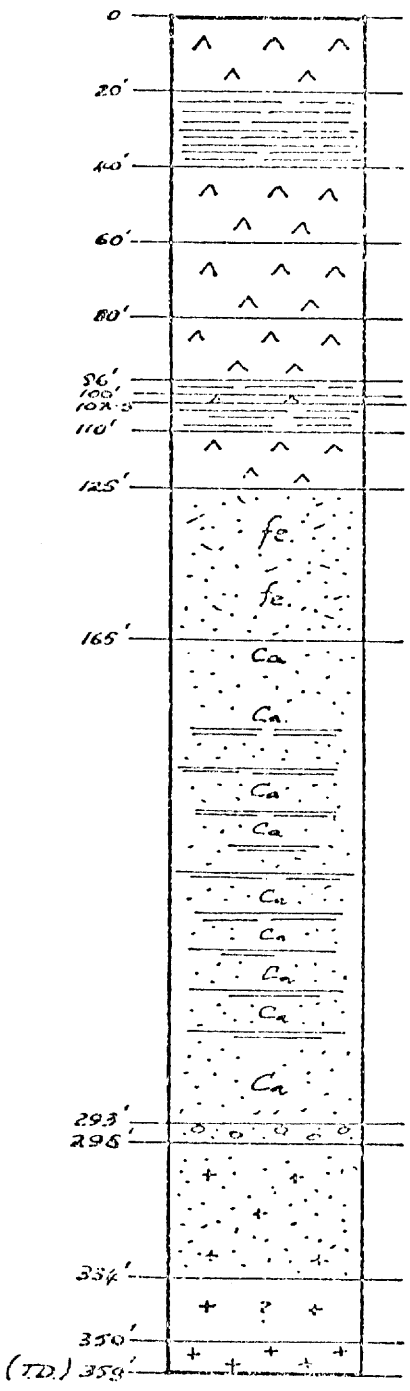
340 - 350 as above

350 - 359 50% Granite wash as above

50% Biotite Granite fresh, composite and individual grains consisting quartz clear to pale grey, feldspar colorless to pale grey, white and pinkish brown, biotite black

359' (Circulation sample)
100% fresh granite as above

I.O.L. DARLINGTON — 1



Weathered Basalt
& open vesicles.

Clay, pale red-brown, gritty.

Weathered Basalt
& zeolite + calcite infilling vesicles.

Basalt, hard, dense, dark grey.

Weathered Basalt
Some calcite veins & infilling vesicles

Clay, red-brown, gritty.

Basalt.

Clay, grey-green, buff, gritty.

Basalt, vesicular, partly weathered.

Sand, unconsolidated, ferruginous matrix, yellow-brown, fine to medium grained, angular to well rounded, some polished or fe. coated grains, predominantly quartz, minor lithics, trace fossils.

Sand and Sandstone, unconsolidated to poorly and moderately cemented with calcite, pale buff, very fine to fine and medium grained, angular to well rounded, predominantly quartz, minor dark heavy mineral grains, produce 'Salt & Pepper' texture and fine scale X-bedding
Inter beds grey-green Clay, silty to sandy in part
Trace to common fossil debris.

Coarse Gravel, quartz, feldspar, abundant fossil debris and whole shells, rare limestone.

Granitic wash.

? weathered granite.

Fresh hard granite.

Scale. 1inch = 50 feet.

Unpubl. Rept. 1970/50

Darlington 1

Micropaleontological Report on
Darlington 1 well
(2½ miles north of Darlington, southwestern Victoria).

Samples from the Interstate Oil Ltd. Darlington 1 well were submitted by Mr. R.B.Leslie for micropaleontological investigation. The following samples were examined micropaleontologically in October, 1970:

Depth: 140' - 150'
190' - 200'
290' - 300'
300' - 310'
310' - 320'
320' - 330'
330' - 340'

The foraminiferal assemblages present are generally poor and badly contaminated; hence only a few comments of biostratigraphic interest can be made.

Calcarina mackayi was recorded from the samples between 290' and 340'. According to Carter (1958, and other papers) this species is limited to his "Faunal Units" 5 and 6; thus the oldest marine strata in the Darlington 1 Well sequence appear to be late Janjukian to early Longfordian (probably the latter, equivalent to Lower Miocene, rather than the former, since Victoriella conoidea was not observed) in age.

Very rare specimens of Globigerinoides trilobus were observed in the 290'-300' and 330'-340' samples; these are regarded as contaminants from overlying beds. Similarly, Rotalia beccarii (= Ammonia aoteana, according to Nicholls, 1968) was recorded from the 300-310' and 320'-330' samples. This species appears to be restricted to post-Miocene strata in Victoria (Nicholls, 1968); however, the level at which such Pliocene beds, probably equivalent to the Moorabool Viaduct Sand in the Geelong district, occur in the Darlington 1 Well sequence cannot be reliably estimated on the basis of available evidence.

Dr.C.ABELE
Senior Geologist.
O.I.C.Palaeontology Section.

27th October, 1970.

REFERENCES

CARTER, A.N., 1958. Tertiary Foraminifera from the Aire District, Victoria. Geol.Surv. Vict.Bull.55.

NICHOLLS, D.R., 1968 Studies in Victorian Foraminifera above the Orbulina universa Datum. M.Sc.thesis, University of Melbourne (unpubl.).

Darlington 1

ADDRESS ALL COMMUNICATIONS
CHIEF CHEMIST
TELEPHONE 630321

MINES DEPARTMENT
CHEMICAL BRANCH
5 PARLIAMENT PLACE
MELBOURNE, VIC. 3002

GMG:MS
An. PM, FF, 3/7

28th August, 1970

Report on Sample No. 1063/70
U.W.R.S.7513

Sample : Bore Water
Locality : Parish Jellalabad
Sender Mr. Leslie,
Interstate Oil Limited,
95 Collins Street,
MELBOURNE.

Particulars:		
Bore		I.O.L. Darlington No.1
Plant		-
Sample		-
Date		19.6.70
Depth	(feet)	-
Aquifer level	(feet)	125-340
Static level	(feet)	-
Drawdown	(feet)	-
Aquifer type		Sandstone
Yield (gph)		-
Test type		-
Bore cased to	(feet)	-
Position		2-5 miles north of Darlington
Owner		Interstate Oil Limited
Address		95 Collins Street.
Remarks		-
Label No.		-

Results:		Parts per million	
Total solids in solution		6698	
Chloride	(Cl)	2780	
Carbonate	(CO_3)	Nil	
Bicarbonate	(HCO_3)	1296	
Sulphate	(SO_4)	325	
Nitrate	(NO_3)	Nil	
Calcium	(Ca)	128	
Magnesium	(Mg)	450	
Sodium	(Na)	1456	
Potassium	(K)	29	
Iron-Total	(Fe)	0.3	
Iron-Soluble	(Fe)	0.10	
Silicate	(SiO_3)	40.0	
Total hardness (as $CaCO_3$)		2586	
pH		7.4	
Electrical Conductivity at 25°C.		10,812	micromhos/cm.
Specific Resistance at 20.5°C.		102	ohmcm.

Darlington 1

Comment:

Magnesium and calcium salts are precipating from this water.

Chief Chemist

Darlington 1.

ADDRESS ALL COMMUNICATIONS
CHIEF CHEMIST
TELEPHONE: 630321
GMG:MS

An. HM, 31/7

MINES DEPARTMENT
CHEMICAL BRANCH
5 PARLIAMENT PLACE
MELBOURNE, VIC. 3002

29th September, 1970

Report on Sample No. 1229/70
U.W.R.S. 7595

Sample : Bore Water
Locality : Parish Jellalabad
Sender Interstate Oil Ltd., 95 Collins Street, MELBOURNE.

Particulars:		
Bore		-
Plant		-
Sample		-
Date		25.6.70
Depth	(feet)	-
Aquifer level	(feet)	293-304
Static level	(feet)	Flowing
Drawdown	(feet)	-
Aquifer type		Gravel
Yield (gph)		5000
Test type		-
Bore cased to (feet)		293
Position		2.5 miles north of Darlington
Owner		Interstate Oil Ltd.
Address		95 Collins St. Melb.
Remarks		-
Label No.		-

Results:		Parts per million	
Total solids in solution		5553	
Chloride	(Cl)	2670	
Carbonate	(CO_3)	Nil	
Bicarbonate	(HCO_3)	1801	
Sulphate	(SO_4)	355	
Nitrate	(NO_3)	Nil	
Calcium	(Ca)	408	
Magnesium	(Mg)	-	
Sodium	(Na)	-	
Potassium	(K)	-	
Iron-Total	(Fe)	0.4	
Iron-Soluble	(Fe)	0.1	
Silicate	(SiO_3)	46	
Total hardness (as $CaCO_3$)		-	
pH		7.1	
Electrical Conductivity at 25°C.		9096	micromhos/cm.
Specific Resistance at 21 °C.		124	ohmcm.

Chief Chemist

WCR

Pura Pura-1

(W596A)

APPENDIX II

PURA PURA-1

Pura Pura-1
WCR

INTERSTATE OIL LIMITED

WELL COMPLETION REPORT

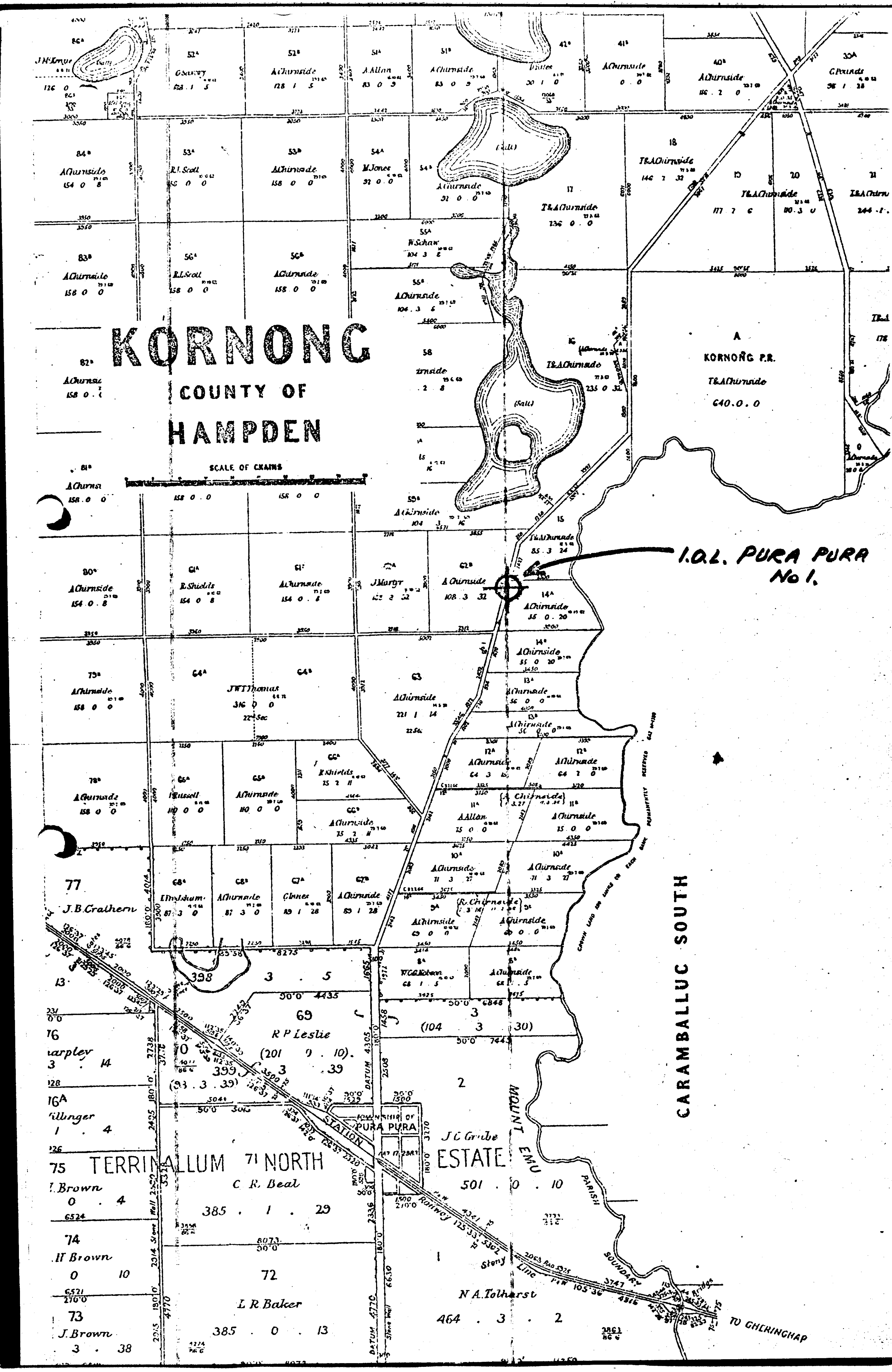
PURA PURA No. 1

W596A

Pura Pura-1

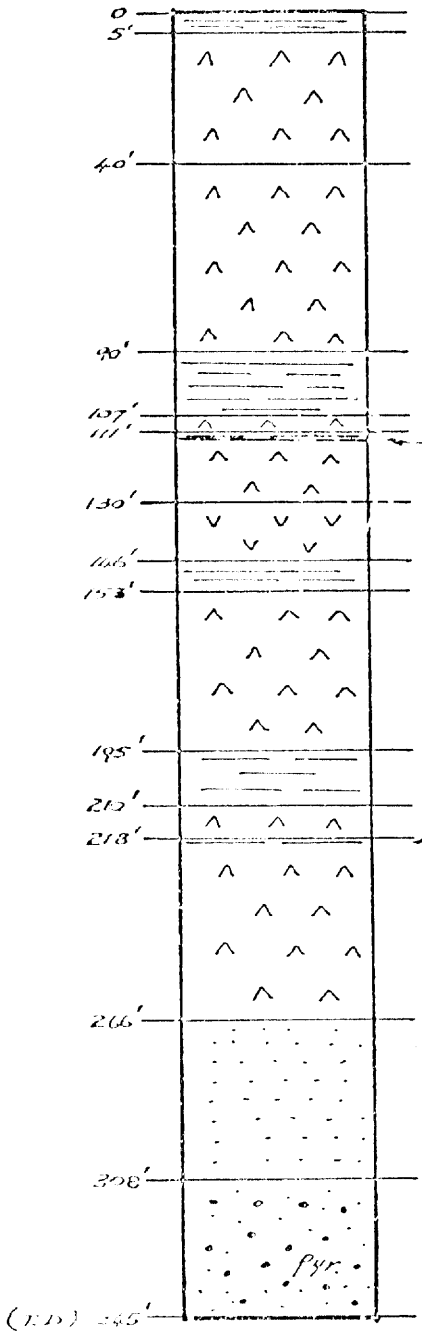
GENERAL DATA

Well name and number	:	Pura Pura No. 1
Name and address of Operator	:	Interstate Oil Ltd. 95 Collins Street Melbourne. Vic. 3000
Tenement Holder	:	Interstate Oil Ltd.
Petroleum Tenement	:	PEP 76
District	:	Ballarat (1:250,000, SJ 54-8)
Parish	:	Kornong
Location	:	Approx. co-ordinates, 37°47'06" S. 143°06'03" E. (See locality plan attached)
Elevation	:	Not determined - approx. 750'
Total depth	:	345'
Date drilling commenced	:	28th June, 1970
Date total depth reached	:	1st July, 1970
Date rig released	:	2nd July, 1970
Status	:	Abandoned
Drilling Contractor	:	W.L. Sides & Sons Pty. Ltd.
Drilling Plant	:	"Schramm" Model T64 H-B
Drilling fluid	:	Compressed air
Total cost	:	Approx. $1,350



KORNONG
COUNTY OF
HAMPDEN
SCALE OF CHAINS
I.O.L. PURA PURA
No 1.
KORNONG P.R.
T&A Chirnside
640.0.0
CARAMBALLUC SOUTH
MOUNT EMU
PARISH
BOUNDARY
TERRINALLUM NORTH ESTATE
TOWNSHIP OF PURA PURA
STATION
J.C. Grube
501 . 0 . 10
R P Leslie
C. R. Beal
385 . 1 . 29
L R Baker
385 . 0 . 13
N A Tolhurst
464 . 3 . 2
J.B. Crathern
TO GHERINGHAP

I.O.L. PURA PURA No. 1



Clay, red-brown & nodules white limestone.

Basalt, speckled med grey-white, cellular open cavities.

Basalt, fresh, med. gray, vesicles infilled & ? devitrified glass.

Clay, pale red-brown silty and light grey nodules white travertine limestone

Clay, pale grey-green grey & limonite pellets

Basalt, weathered, speckled med grey-white

Volcanics, weathered, red brown - brown grey & pink-red felspar.

Clay, pale grey-green grey, pale pinkish grey, ? limenite pellets, trace quartz, med, angular.

Basalt, dense, hard, med. dark grey.

? Clay

Clay interbed.

Basalt, dense, hard, med. dark grey.

Sand, pale grey brown, mainly fine grained 100-150 micron, angular, quartzose. ? very fine carbonaceous matrix. minor lithics, rare trace mica and shell frags.

Sand, pale grey, quartzose, fine & med. grs. Some pyrite cementing grains, ? white clay matrix.

Scale. 1 inch to 50 feet

INTERSTATE OIL LIMITED

Millers log — Para Para #1

0 – 5'	Clay
5' – 88'6"	Fresh basalt
88'6" – 99'	Weathered basalt (water)
99' – 102'6"	Clay and sand
102'6" – 107'	limestone (soft)
107' – 111'	Basalt
111' – 113'	Clay (pulled hammer tool)
113' – 146'	Basalt (rock bit)
146' – 153'	? softer (salty water)
153' – 159'	Basalt (hard)
159' – 195'	Basalt (very hard)
195' – 210'	Softer with few hard bands
210' – 218'	Hard basalt
218' – 220'	Softer formation
220' – 230'	Very hard basalt
230' – 240'	Hard basalt
240' – 250'	Hard basalt (hammer tool)
250' – 266'	Hard basalt
266' – 308'	Very fine sand
308' – 345'	Coarse sand

INTERSTATE OIL LIMITED

Cuttings Description — Para Para #1

Footage	
0 – 5	Clay red brown with nodules creamy white limestone.
5 – 10	90% Basalt speckled white and medium light grey, finely Xtalline with reticulate intergrowths and open cellular vesicle and cavities. 10% limestone creamy white ? cavings.
10 – 20	100% Basalt as above
20 – 30	100% Basalt a.a.
30 – 40	100% Basalt a.a.
40 – 50	100% Basalt medium grey, finely Xtll non vesicular, cavities appear infilled with stony, micro cryptalline grey green material ? devitrified glass.
50 – 60	as above
60 – 70	as above
70 – 80	as above
80 – 90	as above
90 – 100	Admixture of pale red brown silty clay, light grey clay and creamy white travertine limestone

(Drilling break at 88.5 feet depth with ingress of salty water).

100–110 as above plus some weathered basalt.

110–120 as above.

120–130 60% weathered Basalt speckled medium grey and white
20% limestone creamy white, travertine
10% limonite pellets brown and red brown (buckshot gravel)
10% Clay light grey – green grey

130–140 40% weathered volcanics red brown brownish grey, finely xtalline with pinkish red feldspar
30% Clay lt grey – green grey
20% limestone cream white
10% limonite pellets.

140–150 as above

150–160 60% Clay light grey, green grey, pale pinkish grey.
20% limestone as above
10% limonite pellets
10% Basalt dense, hard, med dark grey.

160–170 40% Clay a.a. ?cavings.
10% limestone a.a. ?cavings
10% limestone a.a. ?cavings
40% Basalt a.a.

170–180 70% Clay pale pinkish grey to light grey, light tan and mauve. silty.
10% limestone a.a.
10% limonite pellets trace quartz, cl
10% Basalt a.a. ang to sub ang, ma

180-190 as above

190-200 a. a.

200-210 a. a.

210-220 a. a.

220-230 a. a.

230-240 a. a.

240-250 a. a.

250-260 a. a.

260-270 a. a.

(Drilling break at 266 feet depth with color & water returns becoming dark green grey).

270-280 Plus 100 mesh sample a. a. (100 to 150 microns) Predominantly minus 100 mesh consisting quartz sand very fine to fine grained mainly colorless, some slightly milky angular to sub angular. ? finely divid carbonaceous matrix a/c water coloration Up to 10% lithics and dark heavy minerals give sample an overall light brown coloration.

280-290 a. a.

290-300 a. a. with some medium to coarse grains & quartz, minor chert and lithic subangular to well rounded.

(Color & water returns changed to milky white at 308 feet depth, with increase in average grain size).

INTERSTATE OIL LIMITED

Pura Pura -1

300 – 310	Sand unconsolidated, predominantly quartz very fine to coarse grained, very angular, traces pyrite ? white kaolinitic matrix
310 – 320	a. a.
320 – 330	a. a.
330 – 340	a. a.
340 – 345	a. a.

Pura Pura - 1

ADDRESS ALL COMMUNICATIONS
CHIEF CHEMIST
TELEPHONE: 630321
GMG:MS
An. HM, FF, 31/7

MINES DEPARTMENT
CHEMICAL BRANCH
5 PARLIAMENT PLACE
MELBOURNE, VIC. 3002

18th September, 1970

Report on Sample No. 1227/70
U.W.R.S. 7593

Sample : Bore Water
Locality : Parish Kornong
Sender Interstate Oil Ltd.,
95 Collins Street,
MELBOURNE.

Particulars:

Bore	–
Plant	–
Sample	1
Date	30.6.70
Depth (feet)	220
Aquifer level (feet)	146-153 (Salty water zone)
Static level (feet)	Flowing
Drawdown (feet)	–
Aquifer type	–
Yield (gph)	300
Test type	–
Bore cased to (feet)	–
Position	2·5 miles north of Pura Pura
Owner	Interstate Oil Ltd.
Address	95 Collins St. Melb.
Remarks	Open Hole
Label No.	–

Results:

		Parts per million	
Total solids in solution		9111	
Chloride	(Cl)	4320	
Carbonate	(CO_3)	31	
Bicarbonate	(HCO_3)	314	
Sulphate	(SO_4)	537	
Nitrate	(NO_3)	Nil	
Calcium	(Ca)	23	
Magnesium	(Mg)	205	
Sodium	(Na)	2800	
Potassium	(K)	43	
Iron-Total	(Fe)	76	
Iron-Soluble	(Fe)	0.1	
Silicate	(SiO_3)	37	
Total hardness (as $CaCO_3$)		904	
pH		8.3	
Electrical Conductivity at 25°C.		14,302	micromhos/cm.
Specific Resistance at 21 °C.		79	ohmcm.

Chief Chemist

Pura Pura 1 4.11. R3L (12771)

ADDRESS ALL COMMUNICATIONS
CHIEF CHEMIST
TELEPHONE: 630321

GMG:MS
An. HM,FF, 9/7

MINES DEPARTMENT
CHEMICAL BRANCH
5 PARLIAMENT PLACE
MELBOURNE, VIC. 3002

18th September, 1970

Report on Sample No. 1228/70
U.W.R.S. 7594

Sample : Bore Water
Locality : Parish Kornong
Sender: Interstate Oil Ltd., 95 Collins Street, MELBOURNE.

Particulars:

Bore	-
Plant	-
Sample	-
Date	1.7.70
Depth (feet)	345
Aquifer level (feet)	266-345
Static level (feet)	Flowing
Drawdown (feet)	-
Aquifer type	Porous quartz sand
Yield (gph)	5000
Test type	-
Bore cased to (feet)	Open hole to 345
Position	2.5 miles north of Pura Pura
Owner	Interstate Oil Ltd.
Address	95 Collins St. Melb.
Remarks	Open Hole.
Label No.	-

Results:

		Parts per million
Total solids in solution		9014
Chloride	(Cl)	4380
Carbonate	(CO_3)	Nil
Bicarbonate	(HCO_3)	356
Sulphate	(SO_4)	486
Nitrate	(NO_3)	Nil
Calcium	(Ca)	29
Magnesium	(Mg)	256
Sodium	(Na)	2712
Potassium	(K)	50
Iron-Total	(Fe)	0.2
Iron-Soluble	(Fe)	0.1
Silicate	(SiO_3)	33
Total hardness (as $CaCO_3$)		1125
pH		7.4
Electrical Conductivity at 25°C.		14,163 micromhos/cm.
Specific Resistance at 21°C.		79 ohmcm.

Chief Chemist

WCR

Carranballac-1

(W597A)

CARRANBALLAC-1

APPENDIX III

Carranballac-1
WCR

INTERSTATE OIL LIMITED

WELL COMPLETION REPORT

CARRANBALLAC No. 1

W597A

Carranballac - 1

GENERAL DATA

Well name and number	:	Carranballac No. 1
Name and address of Operator	:	Interstate Oil Ltd. 95 Collins Street Melbourne. Vic. 3000
Tenement Holder	:	Interstate Oil Ltd.
Petroleum Tenement	:	PEP 76
District	:	Ballarat (1:250,000, SJ 54-8)
Parish	:	Kornong
Location	:	Approx. co-ordinates, 37°44'42" S 143°08'48" E (See locality plan attached)
Elevation	:	Not determined - approx. 750'
Total depth	:	495'
Date drilling commenced	:	3rd July, 1970
Date total depth reached	:	30th July, 1970
Date rig released	:	30th July, 1970
Status	:	30 ft. casing left in hole for conversion to water bore by landowner.
Drilling Contractor	:	W.L. Sides & Sons Pty. Ltd.
Drilling Plant	:	"Schramm" Model T64 H-B
Drilling fluid	:	Compressed air, surface to 337' Bentonite mud, 337' to 495'
Total cost	:	Approx. $7,015

Scale 1:250,000

5 0 5 10

5 0 5 10

10,000 0 10,000

5 0 5 10 15

CONTOUR INTERVAL 250 FEET

VERTICAL DATUM IS BASED ON LOW WATER MARK, HOBSONS BAY

TRANSVERSE MERCATOR PROJECTION

HORIZONTAL DATUM IS BASED ON SYDNEY OBSERVATORY, LATITUDE 33°51'41.10"S LONG

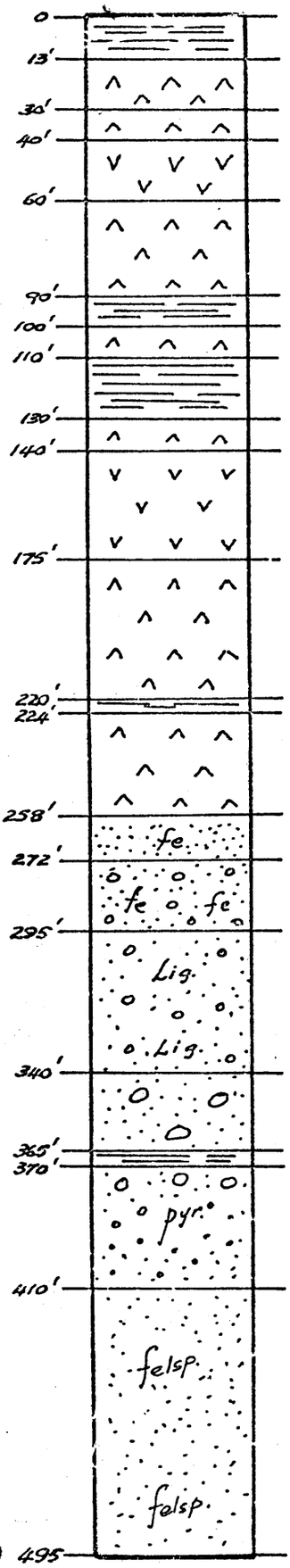
BLACK NUMBERED LINES INDICATE THE 10,000 YARD TRANSVERSE MERCATOR GRID, ZONES 6 AND

THE LAST FOUR DIGITS OF THE GRID NUMBERS ARE OMITTED

1965 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 9°30' EASTERLY FOR THE CE

EDGE TO 10°00' EASTERLY FOR THE CENTRE OF THE EAST EDGE. MEAN ANNUAL CHANG

I.O.L. CARRANBALLOC No 1



0 – 13' **Clay**, buff with red-brown **Limonite pellets**

13' – 30' **Basalt**, medium grey, ? **Olivine**

30' – 40' **Basalt**, weathered, olive grey – yellow grey

40' – 60' **Volcanics**, weathered, pink to pale red brown, olive grey.

60' – 90' **Basalt**, fresh, medium dark grey to green grey
Vesicles infilled ± ? devitrified glass.

90' – 100' **Clay**, green-grey, sandy ± quartz granules.

100' – 110' **Basalt**, weathered.

110' – 130' **Clay**, yellow grey to light brown, silty to sandy
± Some coarse quartz granules.

130' – 140' **Basalt**, fresh, medium grey.

140' – 175' **Volcanics**, weathered, pale red brown
to brick red.

175' – 220' **Basalt**, hard, dense, medium dark grey

220' – 224' **Clay**, sandy

224' – 258' **Basalt**, very hard, dense, medium dark grey.

258' – 272' **Sand**, yellow grey to tan, fine to very coarse,
fe. staining, lateritic matrix,
predominantly quartz, minor lithics.

272' – 295' **Sand and Gravel** yellow grey to tan
lateritic matrix, subangular to well rounded
trace mica and rare shell fragments.

295' – 340' **Sand and Gravel**, grey, angular to subangular
subordinate Clayey Sandstone, pale grey
minor Carbonaceous Siltstone, dark brown.
common Lignite fragments, dark brown – black

340' – 365' **Sand**, med to coarse and **Gravel**, quartzose,
angular to subangular
matrix of white micaceous clay

365' – 370' **Clay**, pale grey, soft buggy, sandy, micaceous, sl. carb.

370' – 410' **Sand**, fine to coarse, and **Gravel**
quartzose, angular to subangular
pyrite cementing some grains

410' – (T.D.) 495 **Sand**, fine + med + coarse, quartzose
mainly angular
common white feldspar fragments
increasing with depth to 40%
? white micaceous clay matrix

Scale. 1 inch to 50 feet.

INTERSTATE OIL LIMITED

Drillers log — Carnarvon #1

0 – 13'	Top soil
13' – 30'	Basalt
30' – 47'6"	Shale & decomposed basalt
47'6" – 130'	Decomposed basalt
130' – 135'	Hard basalt (2000 – 3000 gph water
135' – 159'	Hard basalt to 175' (more water)
220' – 224'	soft
240'	very hard basalt.
258'	top of sand.
272'	Hard granite
310' – 330'	Coarse quartz sand and coal.

yellow brown water at 258'
dark green grey water at 296'.

N.B. log incomplete due to five different changes of driller during operations at this site.

INTERSTATE OIL LIMITED

Cuttings Description — Cannanballac #1

Footage	
0 – 10	70% *Clay* cream to buff, silty. 30% *Limonite pellets* red brown, 'buckshot'.
10 – 20	*Basalt* medium grey, partly weathered to cream or tan. some yellow green ?olivine.
20 – 30	weathered *Basalt*, light olive grey to yellow grey.
30 – 40	as above
40 – 50	Weathered *Volcanics* pink to pale red brown and light olive grey.
50 – 60	as above, some green-grey basalt with stoney microcrystalline material ? devitrified glass. trace calcite vein
60 – 70	*Basalt* medium dark grey to green grey. fairly fresh with minor ? devitrified glass traces calcite veining.
70 – 80	*Basalt* as above
80 – 90	*Basalt* dark grey, hard. Minor *volcanic* weathered, brick red. traces calcite as veins and infilling vesicles.
90 – 100	Mixed sample consisting: 40% *Basalt* darkgrey – greengrey a.a. 40% *Volcanics* pale red brown, weathered also brick red as above. 10% *Clay* greenish grey 5% *Quartz*, med to crs individual grains 5% *Calcite*, white. colorless, angular to sub angu[lar]

100 - 110 Weathered Basalt, light olive grey to medium grey and brown grey. some inclusions of ? devitrified glass.

110 - 120 Clay yellow grey to light brown, silty to sandy with occasional coarse quartz granules.

120 - 130 50% Clay as above
50% Basalt medium grey, fairly fresh.

130 - 140 80% Clay as above
20% Basalt as above.
(water ingress 2000 to 3000 g.p.h.).

140 - 150 50% Clay as above
50% Volcanics pale red brown as above
traces brick red volcanics a.a.

150 - 160 As above.

160 - 170 80% Volcanics a.a.
20% Clay a.a.

170 - 180 40% Basalt medium grey to olive grey weathered in part
30% Volcanics pale red brown a.a.
30% Clay green grey to lt olive grey with some coarse quartz granules including rose quartz.

180 - 190 As above

190 - 200 60% Basalt as above
40% Clay as above

200-210 60% Basalt as above
30% Clay as above
10% Volcanics as above.

210-250 Basalt hard, dense med dark grey. Severe sample contamination due to washing out of surface hole behind stand pipe.

250-260 Missed sample.
(Drilling break at 258' with color change of water returns to dirty yellow brown).

260-270 Sand yellow grey to tan, fine to coarse grained with some granules, poorly sorted, angular to subrounded predominantly quartz colorless to milky with fe staining and lateritic cementing of grains. Subordinate lithic grains.
Basalt, volcanics & clay cavings

270-280 As above

280-290 Sand and Gravel yellow grey to tan, fine to very coarse with granules and pebbles 4 to 8 m.m. Angular to well rounded, predominantly quartz colorless to milky. Common fe staining.

290-300 Sand, pale yellow brown, very fine to fine grained, well sorted, mainly angular, predominantly quartz colorless to lt grey, milky and yellowish. Traces of mica, rare shell fragments.
(Color change in water returns at 296' to dark grey.

INTERSTATE OIL LIMITED

Carranballac 1

300 - 310 Sand, yellow grey to tan, fine to coarse grained, poorly sorted, angular to sub rounded, predominantly quartz grains colorless to light grey, milky and pale yellow, some fe. coating.

310 - 320 Quartz Sand colorless to milky, medium to coarse grained, angular to sub angular traces sandstone pale grey consisting very fine grained quartz poorly cemented with non calcareous grey micaceous clay matrix. Common Carbonised wood and lignite fragments up to 3 inches long.

320 - 330 Quartz Sand and Gravel, colorless to milky fine to coarse grained, angular to sub angular quartz.
Strong trace sandstone pale grey, fine quartz grains in micaceous clay cement.
trace lignitic material + pyrite
trace brown micaceous carbonaceous siltstone.
Occasional milky quartz pebbles up to 15 m.m. subrounded to rounded

330 - 340 Quartz Sand and Gravel, light grey to colorless, med to coarse grained with granules and pebbles to 5 m.m, sub rounded to well rounded.
Strong trace lignitic material
trace brown micaceous & carbonaceous siltstone

(Water returns changed to milky white at 340'!)

340-350 Quartz Sand light grey, medium to very coarse grained and granule., angular to sub angular
Strong trace lignite
Common white micaceous clay matrix

350-360 Quartz Sand as above.
traces fine grained, silty micaceous quartz sandstone
Common large pebble size fragments of angular metamorphic quartzite
dark brown to brown grey in color
traces lignite

360-370 As above, very dirty and mixed sample. due to casing operations.
365-370 'cored annulus sample' recovered at surface after advancing casing beyond drilled depth & later drilling ahead.
Pale grey, silty, sandy, gritty, micaceous clay, some finely divided carbonaceous material.

370-380 Quartz Sand and Gravel fine to very coarse grained, granule and pebble
colorless to milky and pale grey
angular to sub angular
Strong trace pyrite cementing grains

380-390 as above

390-400 as above (mainly med to coarse grain,

400-410 as above (becoming finer in grain si

410-420 As above, probable white to pale grey micaceous kaolinitic clay matrix trace feldspar as white angular grains

420-430 As above with increasing white feldspar grains and fragments.

430-495 As above with upto 10% white feldspar fragments.

ADDRESS ALL COMMUNICATIONS
CHIEF CHEMIST
TELEPHONE: 630321

GMG:MS
An. HM, FF, 31/7

Carranballac-1

MINES DEPARTMENT
CHEMICAL BRANCH
5 PARLIAMENT PLACE
MELBOURNE, VIC. 3002

29th September, 1970

Report on Sample No. 1226/70
U.W.R.S. 7592

Sample : Bore Water
Locality : Parish Kornong
Sender Interstate Oil Ltd,
95 Collins Street,
MELBOURNE.

Particulars:	
Bore	Carranballac No.1
Plant	-
Sample	-
Date	6.7.70
Depth (feet)	240
Aquifer level (feet)	-
Static level (feet)	Flowing
Drawdown (feet)	-
Aquifer type	Basalt and clays
Yield (gph)	5000
Test type	-
Bore cased to (feet)	Open hole to 240
Position	3 miles south of Carranballac
Owner	Interstate Oil Ltd.
Address	95 Collins Street, Melb.
Remarks	-
Label No.	-

Results:		Parts per million
Total solids in solution		2268
Chloride	(Cl)	1058
Carbonate	(CO_3)	Nil
Bicarbonate	(HCO_3)	336
Sulphate	(SO_4)	20
Nitrate	(NO_3)	Nil
Calcium	(Ca)	43
Magnesium	(Mg)	121
Sodium	(Na)	587
Potassium	(K)	14
Iron-Total	(Fe)	9
Iron-Soluble	(Fe)	0.1
Silicate	(SiO_3)	50
Total hardness (as $CaCO_3$)		606
pH		7.4
Electrical Conductivity at 25°C.		3875 micromhos/cm.
Specific Resistance at 21°C.		292 ohmcm.

Chief Chemist

K.J.H
R.B.K (95)

ADDRESS ALL COMMUNICATIONS
CHIEF CHEMIST
TELEPHONE: 630821
GMG:MS
An. HM, DL, 31/8

MINES DEPARTMENT
CHEMICAL BRANCH
5 PARLIAMENT PLACE
MELBOURNE, VIC. 3002

23rd October, 1970

Carranballac 1

Report on Sample No. 1342/70
U.W.R.S.7618

Sample : Bore Water
Locality : Parish Kornong
Sender Interstate Oil Ltd., 95 Collins Street, MELBOURNE.

Particulars:

Bore	1
Plant	–
Sample	–
Date	28.7.70
Depth (feet)	335
Aquifer level (feet)	–
Static level (feet)	–
Drawdown (feet)	–
Aquifer type	–
Yield (gph)	–
Test type	–
Bore cased to (feet)	335
Position	35 miles south of Carranballac adjacent to entrance of Moonallan (station A.Chirnside).
Owner	Interstate Oil Ltd.
Address	95 Collins St. Melb.
Remarks	Sample displaced to surface by air
Label No.	–

Results:		Parts per million	me/litre
Total solids in solution		2256	
Chloride	(Cl)	1049	29.5
Carbonate	(CO_3)	18	0.6
Bicarbonate	(HCO_3)	299	4.9
Sulphate	(SO_4)	136	2.8
Nitrate	(NO_3)	Nil	–
Calcium	(Ca)	48	2.4
Magnesium	(Mg)	116	9.5
Sodium	(Na)	590	25.6
Potassium	(K)	18	0.4
Iron-Total	(Fe)	1.4	–
Iron-Soluble	(Fe)	0.1	–
Silicate	(SiO_3)	5	0.1
Total hardness (as $CaCO_3$)		595	
pH		8.0	
Electrical Conductivity at 25°C.		3855	micromhos/cm.
Specific Resistance at 17.9°C.		296	ohmcm.

me/litre
Total Anions 37.9
Total Cations 37.9

Chief Chemist

Carrenballac 1

PALYNOLOGICAL EXAMINATION OF BORE SAMPLE.

Samples from the ..Carrenballac.... Bore No. 1..... were treated by the hydrofluoric acid - Schulze's solution method, and the residues examined under the microscope for acid insoluble microfossils.

Sample Details.

Bore No.	Rock Type	Depth	Microfossils.
		310ft.	Nothofagus spp. Triorites sp. Proteacidites sp. etc.
		335 ft.	None noted
		365-370ft.	Rare Nothofagus pollens etc. fern spores.

Remarks

A moderately rich microfloral assemblage was isolated from the 310 ft. sample. Nothofagus spp. were common and indicate a Lower Miocene - Oligocene age. The two deeper samples also appear to be of this age.

J. DOUGLAS.
SUPERVISING GEOLOGIST.

ENCLOSURES for....

* Darlington-1

* Pura Pura-1

* Carranballac-1

PE907101

This is an enclosure indicator page.
The enclosure PE907101 is enclosed within the container PE907100 at this location in this document.

The enclosure PE907101 has the following characteristics:

ITEM_BARCODE	= PE907101
CONTAINER_BARCODE	= PE907100
NAME	= Compilation Map (PEP 76)
BASIN	= OTWAY
PERMIT	= PEP/108
TYPE	= TITLE
SUBTYPE	= PERMIT_MAP
DESCRIPTION	= Compilation Map for PEP 76 (enclosure from Combined WCR) for the 3 Scout Drill Holes...Darlington-1, Para Para-1 and Carranballac-1
REMARKS	= Map shows Permit boundary, the 3 Scout Drill Holes, Mesozoic Outcrop, Gravity Contours, Volcanic Cones, Water Bores and Section Lines.
DATE_CREATED	= 31/07/70
DATE_RECEIVED	=
W_NO	= W594A, W596A, W597A
WELL_NAME	= Darlington-1
CONTRACTOR	= Interstate Oil Ltd
CLIENT_OP_CO	= Interstate Oil Limited

(Inserted by DNRE - Vic Govt Mines Dept)

PE907102

This is an enclosure indicator page.
The enclosure PE907102 is enclosed within the container PE907100 at this location in this document.

The enclosure PE907102 has the following characteristics:

ITEM_BARCODE	= PE907102
CONTAINER_BARCODE	= PE907100
NAME	= Well Correlation Section
BASIN	= OTWAY
PERMIT	= PEP/108
TYPE	= WELL
SUBTYPE	= WELL_CORRELATION
DESCRIPTION	= Well Correlation for PEP 76 (enclosure from Combined WCR) for the 3 Scout Drill Holes...Darlington-1, Para Para-1 and Carranballac-1
REMARKS	=
DATE_CREATED	= 31/10/70
DATE_RECEIVED	=
W_NO	= W594A, W596A, W597A
WELL_NAME	= Darlington-1
CONTRACTOR	= Interstate Oil Ltd
CLIENT_OP_CO	= Interstate Oil Limited

(Inserted by DNRE - Vic Govt Mines Dept)