



BEACH PETROLEUM N.L.

PEP 105/118 OTWAY BASIN VICTORIA

1988 INTERPRETATION REPORT (BASED ON REPROCESSED DATA)
COMPILED BY
DAVID A. REMUS

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1. INTRODUCTION

The author undertook to interpret the western portions of PEP 105/118 following the reprocessing project of 1988. In addition two newly acquired lines of the Crawford Survey were interpreted as well as all the remaining data in the area that had not been reprocessed.

This interpretation was meant to be an unbiased "fresh look" at the area in as much as the author had no prior knowledge of the permit area, excepting general regional knowledge of the Otway Basin.

2. INTERPRETATION

2.1. Well Data Base

All petroleum wells available in the area were used in this interpretation. Synthetic seismograms and velocity surveys were used where possible to tie the wells to seismic horizons. At Fahley-1 an approximate time-depth curve was generated as there was no velocity data available from the well.

The following summarizes the well data base;

- Najaba-1A Line NM85-368 SP 159 Total Depth 3412m (KB) TD in Eumeralla
- 2. Squatter-1 Line GL85-250 SP 285 Total Depth 1500m (KB) TD in Eumeralla
- 3. Henke-1
 Line HE86-416 SP 1036 +60m
 Total Depth 1435m (KB)
 TD in Paaratte
- 4. Wilson-1 Line WGD-329 SP 181 Total Depth 1317m (KB) TD in Paaratte
- 5. Fahley-1 Line WGD-342 Total Depth 3211m (KB) TD in Basal Waarre
- 6. Fahley-2 Line WG84-243 SP 318.5 Total Depth 1330m (KB)

2.2. Seismic Data Base

All lines shown on figure 1 were used in the interpretation. Exceptions are lines 72-115 and WGD-331.

Reprocessed sections were used where available (see fig. 1). Original unreprocessed sections were used elsewhere.

Data quality was generally fair to good with marked improvement in the pre-Paaratte section on the reprocessed sections. Seismic ties were good from survey to survey. The sections were displayed at a scale, however, that tended to stretch and obscure fault cuts thus hindering interpretation.

2.3. Mapped Horizons (See Enclosures 7, 8, & 9)

The following horizons were picked:

Intra Dilwyn-----Light Green----Not Mapped
Near Top Pember----Brown-----Mapped
Pebble Point-----Yellow-----Mapped as
Near Top
Paaratte
Paaratte-----Orange-----Not Mapped
Near Top Belfast---Red------Mapped
Near Top Otway-----Purple------Mapped

In addition isochrons of the Pember to Paaratte and Belfast to Otway were produced.

- 3. DISCUSSION OF RESULTS
- 3.1 Regional Structure

The study area can be divided into two structural regions;
1. To the north of the Tartwaup fault is a platform area (Mumbannar) with thin post Otway deposition. This was

probably the Basin margin during Sherbrook aged extension. Structure on the platform is subtle with regional dip into the Tartwaup fault and individual structures controlled by down to the north faults.

2. South of the Tartwaup fault structure changes remarkably. Being listric normal, both the Tartwaup and Wanwin/Norman fault systems have well developed northwest-southeast trending hangingwall anticlines associated with the faulting. Individual closures that have been tested include; Najaba-1A (Pebble Point and Waarre), Wilson-1 (Pebble Point) and Henke-1 (Pebble Point).

These failures do not downgrade the potential of the remaining structures in the area. Najaba is downdip from a major structure developing to the west, Wilson is down structure (it is possible to get updip at least 80ms. and Henke is slightly downdip. It can also be argued that all three wells were situated on structures off the main migration routes.

3.2. Prospects And Leads

At the target levels (Waarre, Pebble Point and Paaratte) one very large prospect has been identified (Pine Lodge). The structure is a hangingwall anticline situated at the junction of the Tartwaup and Wanwin faults. It should be noted that it is located ideally to trap any hydrocarbons moving updip from the adjacent low areas. Wilson was drilled downdip from Pine Lodge (at Pebble Point level) and as mentioned earlier may not have been on the migration route.

There are also a number of structural traps at Base Upper Cretaceous level that remain to be tested. Previous tests including Najaba, Squatter and Fahley were poorly located to test the Otway targets.

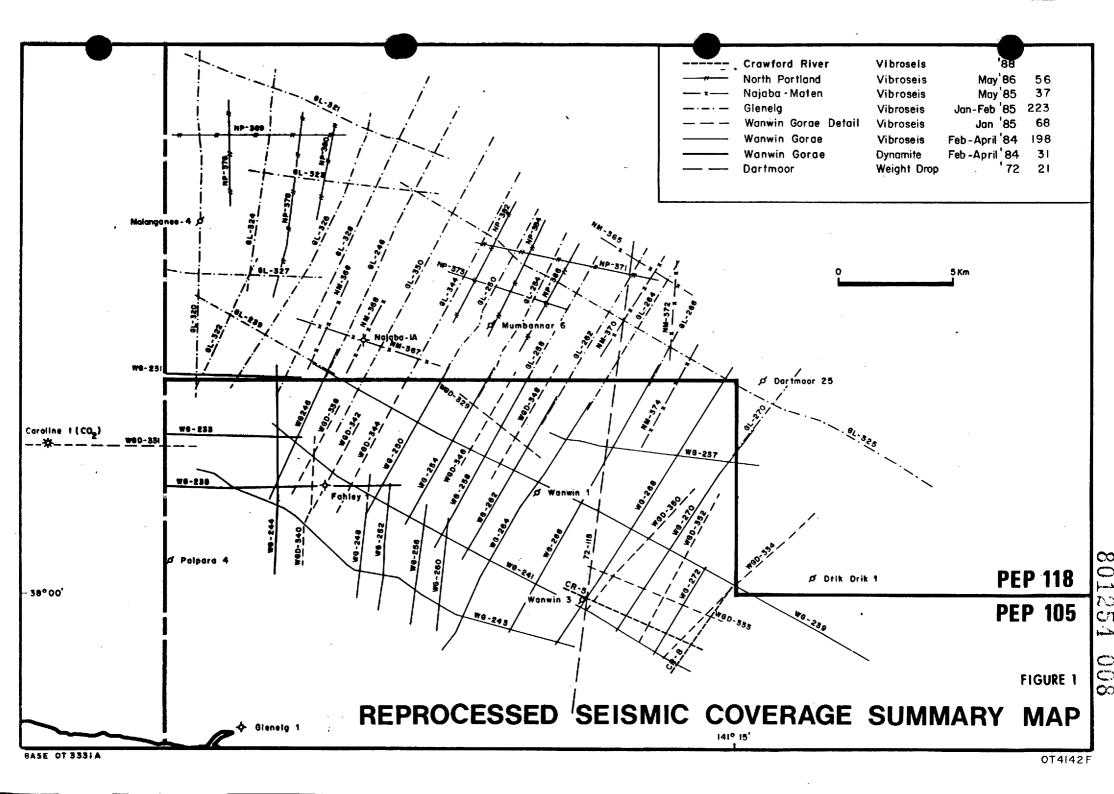
4. CONCLUSIONS

- 1. One very large prospect (Pine Lodge) has been identified with closure at Pebble Point and Waarre levels. Little additional work will be required to upgrade this structure to drillable status.
- 2. Previous tests appear to be off the main migration routes.
- 3. Numerous Otway level targets (this includes the Waarre) remain to be tested.

PEP 105/118 AND ENVIRONMENTS - OTWAY BASIN

STRATIGRAPHIC TABLE

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REPROCESSED LINES

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GL85-250
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G105-250
GL05-204
GL85-258 GL85-264 GL85-266 GL85-270
GL85-270
GL85-320 GL85-321 GL85-322
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HE86-416 NM85-366 NM85-367 NM85-368
MM95 266
NM05-300
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NM85-368
NM85-370 NM85-372
NM85-372
MMQC 271
NP86-369
NP86-371
NP86-373
NP86-369 NP86-371 NP86-373 NP86-376
NP86-378 NP86-380
NP86-380
NP86-382
NB86-387
ND86 386
NP86-382 NP86-384 NP86-386 WG84-231
WG04-231
WG84-233
WG84-235
WG84-237 WG84-239
WG84-239
WG84-241

WG84-243 WG84-244 WG84-246 WG84-248 WG84-250 WG84-252 WG84-254 WG84-256 WG84-258 WG84-260 WG84-262 WG84-264 WG84-266 WG84-268 WG84-270 WG84-272 WGD85-329 WGD85-331 WGD85-333 WGD85-334 WGD85-338 WGD85-340 WGD85-342 WGD85-344 WGD85-346 WGD85-348 WGD85-350 WGD85-352

PROCESSED LINES

CR88-05 CR88-08

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The enclosure PE801255 has the following characteristics: ITEM_BARCODE = PE801255 CONTAINER_BARCODE = PE801254

NAME = Section of WG84-268 Seismic Line

BASIN = OTWAY

ONSHORE? = Y

DATA_TYPE = SEISMIC

DATA_SUB_TYPE = INTERP_SECTION

DESCRIPTION = Interpretive Section of WG84-268 Line

Stack, Wanwing-Gorae 1984 Survey.

REMARKS =

DATE_WRITTEN = 30-JUN-1988

DATE_PROCESSED =

DATE_RECEIVED = 22-AUG-1989

RECEIVED_FROM = Horizon Seismic Australia Pty. Ltd.

WELL_NAME =

CONTRACTOR =

AUTHOR =

ORIGINATOR =

TOP_DEPTH =

BOTTOM_DEPTH =

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ONSHORE? = Y

DATA_TYPE = SEISMIC

DATA_SUB_TYPE = INTERP_SECTION

DESCRIPTION = Interpretive Section of WG84-250 Line

Stack, Wanwing-Gorae 1984 Survey.

REMARKS =

DATE_WRITTEN = 30-JUN-1988

DATE_PROCESSED =

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RECEIVED_FROM = Beach Petroleum NL

WELL_NAME =

CONTRACTOR =

AUTHOR =

ORIGINATOR =

TOP_DEPTH =

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CONTAINER_BARCODE = PE801254

NAME = Time Structure Map

BASIN = OTWAY

ONSHORE? = Y

DATA_TYPE = SEISMIC

DATA_SUB_TYPE = HRZN_CONTR_MAP

DESCRIPTION = PEP 105/118 Post Henke-1 and Wilson-1 Interpretation, Near Top Pember Time Structure Map (Based on reprocessed

data)

REMARKS =

DATE_WRITTEN = 30-NOV-1988

DATE PROCESSED =

DATE_RECEIVED = 22-AUG-1989

RECEIVED_FROM = Beach Petroleum NL

WELL_NAME = Wilson-1

CONTRACTOR =

AUTHOR =

ORIGINATOR =

TOP_DEPTH =

BOTTOM_DEPTH = ROW_CREATED_BY = MK11_SW

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CONTAINER_BARCODE = PE801254

NAME = Time Structure Map

BASIN = OTWAY

ONSHORE? = Y

DATA_TYPE = SEISMIC

DATA_SUB_TYPE = HRZN_CONTR_MAP

DESCRIPTION = PEP 105/118 Post Henke-1 and Wilson-1

Interpretation, Near Top Paaratte Time

Structure Map (Based on reprocessed

data)

REMARKS =

DATE_WRITTEN = 30-NOV-1988

DATE_PROCESSED =

DATE_RECEIVED = 22-AUG-1989

RECEIVED_FROM = Beach Petroleum NL

WELL_NAME = Wilson-1

CONTRACTOR =

AUTHOR =

ORIGINATOR =

TOP_DEPTH =

BOTTOM_DEPTH =

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ROW_CREATED_BY = MK11_SW

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CONTAINER_BARCODE = PE801254

NAME = Time Structure Map

BASIN = OTWAY

ONSHORE? = Y

DATA_TYPE = SEISMIC

DATA_SUB_TYPE = HRZN_CONTR_MAP

DESCRIPTION = PEP 105/118 Post Henke-1 and Wilson-1 Interpretation, Near Top Otway Time

Structure Map (Based on reprocessed

data)

REMARKS =

DATE_WRITTEN = 30-NOV-1988

DATE_PROCESSED =

DATE_RECEIVED = 22-AUG-1989

RECEIVED_FROM = Beach Petroleum NL

WELL_NAME = Wilson-1

CONTRACTOR =

AUTHOR = '

ORIGINATOR =

TOP_DEPTH =

BOTTOM_DEPTH =

ROW_CREATED_BY = MK11_SW

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CONTAINER_BARCODE = PE801254

NAME = Time Structure Map

BASIN = OTWAY

ONSHORE? = Y

DATA_TYPE = SEISMIC

DATA_SUB_TYPE = HRZN_CONTR_MAP

DESCRIPTION = PEP 105/118 Post Henke-1 and Wilson-1

Interpretation, Near Top Otway Time Structure Map (Based on reprocessed

data)

REMARKS =

DATE_WRITTEN = 30-NOV-1988

DATE_PROCESSED =

DATE_RECEIVED = 22-AUG-1989

RECEIVED_FROM = Beach Petroleum NL

WELL_NAME = Wilson-1

CONTRACTOR =

AUTHOR =

ORIGINATOR =

TOP_DEPTH =

BOTTOM_DEPTH =

ROW_CREATED_BY = MK11_SW

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CONTAINER_BARCODE = PE801254

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BASIN = OTWAY

ONSHORE? = Y

DATA_TYPE = SEISMIC

DATA_SUB_TYPE = HRZN_CONTR_MAP

DESCRIPTION = PEP 105/118 Post Henke-1 and Wilson-1 Interpretation, Near Top Belfast Time

Structure Map (Based on reprocessed

data)

REMARKS =

DATE_WRITTEN = 30-NOV-1988

DATE_PROCESSED =

DATE_RECEIVED = 22-AUG-1989

RECEIVED_FROM = Beach Petroleum NL

WELL_NAME = Wilson-1

CONTRACTOR =

AUTHOR =

ORIGINATOR =

TOP_DEPTH =

BOTTOM_DEPTH =

ROW_CREATED_BY = MK11_SW

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            BASIN = OTWAY
        ONSHORE? = Y
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   DATA_SUB_TYPE = HRZN_CONTR_MAP
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                    Interpretation, Belfast / Otway
                    Isochron Map (Based on reprocessed
                    data)
          REMARKS =
     DATE_WRITTEN = 30-NOV-1988
   DATE_PROCESSED =
   DATE_RECEIVED = 22-AUG-1989
    RECEIVED_FROM = Beach Petroleum NL
        WELL_NAME = Wilson-1
       CONTRACTOR =
          AUTHOR =
       ORIGINATOR =
        TOP_DEPTH =
     BOTTOM_DEPTH =
   ROW_CREATED_BY = MK11_SW
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