

# **WESTERN AUSTRALIA II OIL STUDY**

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**REGIONAL PETROLEUM GEOCHEMISTRY  
AND CORRELATION OF CRUDE OILS  
FROM WESTERN AUSTRALIA**

**GEO MARK RESEARCH  
HOUSTON, TEXAS**

and

**GEO SCIENCE AUSTRALIA  
CANBERRA, AUSTRALIA**

PROPOSAL

## EXECUTIVE SUMMARY

Western Australia and its continental shelf continues to receive industry attention as a major exploration province. Recent drilling has extended evaluations into deeper water and less drilled portions of several sub-basins. To assist these efforts, GEOMARK RESEARCH and Geoscience Australia (AGSO) have expanded the regional oil/condensate study they first undertaken in 1996. The purpose of these studies is to further identify and characterize each of the petroleum systems which have sourced oil, and to predict their importance to future exploration.

The goals of the Western Australia II Study remain the same as those defined in the Phase I Study, and are restated:

- Determine the number of genetically distinct oil families in each producing region.
- Map the stratigraphic and geographic distribution of the oil families and distinguish areas with single oil families (single sources) from those with multiple oil families (multiple sources).
- Utilize geochemical characteristics of the oil families to deduce their source facies, thermal maturity level, and degree of preservation.
- Determine the most likely source unit(s) in each area by comparing the distribution of oil families with published source facies, regional stratigraphy, burial history, and source rock information.
- Estimate migrational directions by comparing oil family distributions with the location of known oil kitchens.
- Utilize the geographic, stratigraphic, and structural distribution of oils to identify, map, and rank the petroleum systems in each basin and in the region as a whole.

Crude oil samples collected from 153 additional wells within the Bonaparte (43 samples), Browse (11 sample), Canning (2 samples), Carnarvon (77 samples) and Perth (5 samples) basins of western Australia were added to the 160 samples from the Oils of Western Australia Study. In addition, fifteen oils from the Papuan Basin in Papua New Guinea are included for comparison.

The analytical data is completed and available for immediate delivery. The cost of the study is US \$21,250.

## INTRODUCTION

This study builds on the knowledge gained from the Oils of Western Australia project (AGSO and GeoMark, 1996) by including an additional 156 oils from western Australian and Papua New Guinea basins which infill and broaden the geographic range of the 160 oils sampled in the initial project, as well as including more recently discovered oils (up to March 2000). The samples analysed in this study are listed in **Table 1** and shown in **Figure 1**, as are the location of samples in the original study.

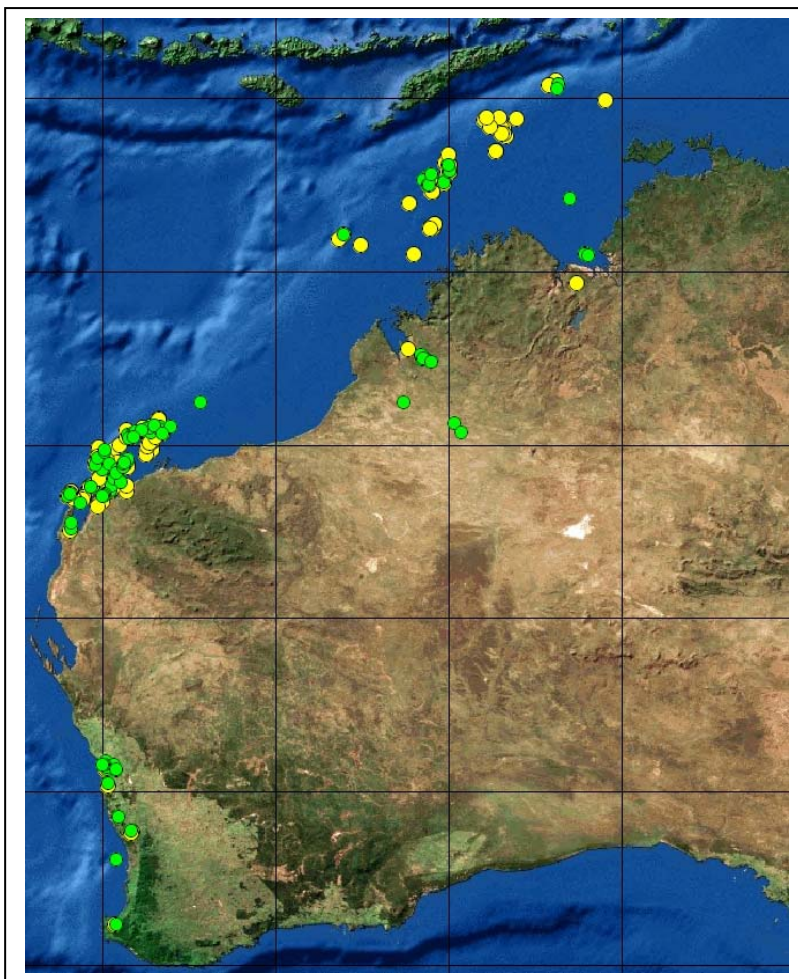


Figure 1. Location map showing oil samples analyzed for the phase I (yellow) and phase II (green) Western Australia Oil Studies.

The study is unique in that each crude oil sample has been subjected to a diverse range of analyses including bulk geochemical (API gravity, elemental analysis of nickel, vanadium and sulphur), molecular (gas chromatography of the whole oil and gas chromatography-mass spectrometry of the saturated and aromatic hydrocarbons) and stable carbon isotopic (bulk and compound-specific) analyses. This set of standardised geochemical protocols is consistent with those used in the Western Australia I Oil Study and the global oil database (<http://www.geomarkresearch.com> and <http://www.rfdbase.com>).

The aim of the study is to assign each sample to an oil family and interpret each oil family in the context of a petroleum system. The thermal maturity of the oils and any subsequent reservoir alteration processes, such as water-washing, evaporative fractionation and biodegradation are also assessed.

This study is meant to be used in conjunction with the original Oils of Western Australia study. The geology sections for some of the basins covered in the original study are updated (Bonaparte, Carnarvon) with the knowledge, ideas and concepts developed by Geoscience Australia's Marine and Petroleum Division ([www.agso.gov.au/oceans/projects/](http://www.agso.gov.au/oceans/projects/)) and gained from published information. Information for additional basins (Papuan, Browse) is also included. The oils of the Papuan Basin are included in this study because their geochemistries are similar to those of the northwestern Australian margin.

## ANALYTICAL PROGRAM

Each oil sample in both the Western Australia I & II studies was analyzed with the following analytical protocol. GeoMark maintains an extreme degree of consistency in its analytical procedures ensuring that the analytical results from the Phase I and II studies are directly comparable.

- API gravity
- % Sulfur, ppm Nickel and ppm Vanadium
- Deasphalting (% Asph.)
- Liquid chromatography (% Saturated and % Aromatic hydrocarbons, and % NSO's)
- Molecular sieve to concentrate branched/cyclic hydrocarbon fraction
- Detailed C<sub>7</sub> gas chromatography
- Capillary gas chromatography of whole crudes
- Stable carbon isotopes for both Sat and Aro hydrocarbon fractions
- GC/MS (SIM) of branched/cyclic hydrocarbon fraction for terpane/sterane distributions (quantitative)
- GC/MS of aromatic hydrocarbons
- Individual *n*-alkane (paraffins) isotope profiles on selected samples

In addition, both studies include C<sub>7</sub> (light hydrocarbon) data, and compound-specific isotope analysis (CSIA) for each oil that was amenable to these analyses. It has been hypothesised that the light hydrocarbons carry information about source, mixing of crude oils and temperature of expulsion. Compound-specific isotope analysis (CSIA) is a relatively new correlation method that offers considerable potential as a source-specific tool applicable to light oil, condensate and gas, as well as normal crude oils.

## PRESENTATION OF RESULTS

Results of the study are presented in both analytical and interpretive formats to insure that all findings are readily accessible to explorationists and research personnel. All of the analytical data are available over the internet ([www.RFDbase.com](http://www.RFDbase.com)).

A synthesis and interpretation of all information is presented in a comprehensive **Final Report**. For each of the basins studies, the **Final Report** will include sections for:

- regional geology,
- differentiation of oil families/mixing by multivariate statistics
- inferred oil–source correlations,
- oil generation and migration,
- oil characterization.

## PARTICIPATION

The cost of the study is US \$21,250.

## TIMING

The analyses and interpretive report are complete and available for immediate delivery. .

## FOR ADDITIONAL INFORMATION CONTACT:

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TABLE 1

## Samples Analyzed for WOZ 1 and WOZ 2 Studies

| SampleID | Country   | Basin             | Field          | Well               | U Depth | Reservoir Age                 | Reservoir Formation                 | Lat        | Long       | Study |
|----------|-----------|-------------------|----------------|--------------------|---------|-------------------------------|-------------------------------------|------------|------------|-------|
| AU0001   | Australia | Bonaparte/Vulcan  | Jabiru         | Production Test    | 5200    | Jurassic                      |                                     | -11.933    | 125.004    | WOZ1  |
| AU0002   | Australia | Bonaparte/Vulcan  | Puffin         | 2; DST 1           | 6654    | Late Cretaceous               | Bathurst Island Gp; Puffin Fm       | -12.36295  | 124.2754   | WOZ1  |
| AU0003   | Australia | Bonaparte/Vulcan  | Puffin         | 3; WFT 2 or 3      | 6896    | Early Cretaceous              | Bathurst Island Gp; Puffin Fm       | -12.28878  | 124.35825  | WOZ1  |
| AU0021   | Australia | Carnarvon/Exmouth | Rough Range    | 1; DST 1           | 3605    | Early Cretaceous              | Winning Gp; Birdrong Sst            | -22.41999  | 114.08333  | WOZ1  |
| AU0027   | Australia | Carnarvon/Barrow  | Chinook        | 1; RFT 2           | 8707    | Early Cretaceous              | Barrow 'A' Fm.(Zeepard Fm.?)        | -21.17009  | 114.6966   | WOZ1  |
| AU0028   | Australia | Carnarvon/Barrow  | Griffin        | 1; DST 1           | 8716    | Early Cretaceous              | Barrow 'A' Fm.(Zeepard Fm.?)        | -21.23562  | 114.61999  | WOZ1  |
| AU0029   | Australia | Bonaparte/Petrel  | Barnett        | 2; DST 1           | 7851    | Early Carboniferous           | Milligans Fm                        | -14.532314 | 129.05221  | WOZ1  |
| AU0030   | Australia | Bonaparte/Petrel  | Barnett        | 2; DST 3           | 4892    | late Carboniferous/E. Permian | Kulshill Gp; Upper Kuriyippi Fm     | -14.532314 | 129.05221  | WOZ1  |
| AU0031   | Australia | Bonaparte/Petrel  | Barnett        | 2; DST 4           | 4923    | late Carboniferous/E. Permian | Kulshill Gp; Upper Kuriyippi Fm     | -14.522314 | 129.05221  | WOZ1  |
| AU0032   | Australia | Bonaparte/Petrel  | Turtle         | 1; DST 5           | 5311    | late Carboniferous/E. Permian | Kulshill Gp; Upper Kuriyippi Fm     | -14.47661  | 128.94484  | WOZ1  |
| AU0033   | Australia | Bonaparte/Petrel  | Turtle         | 2; RFT             | 3042    | Early Permian                 | Kulshill Gp; Keyling Fm             | -14.505891 | 128.94581  | WOZ1  |
| AU0034   | Australia | Bonaparte/Petrel  | Turtle         | 2; DST 1A          | 8635    | Early Carboniferous           | Tanmurra-Milligans Fms              | -14.50589  | 128.94581  | WOZ1  |
| AU0035   | Australia | Bonaparte/Timor   | Talbot         | 1; DST 1           | 4938    | Late Triassic                 | Sahul Gp; Challis Fm                | -12.453166 | 124.88158  | WOZ1  |
| AU0036   | Australia | Bonaparte/Vulcan  | Challis        | 1; PROD            | 4562    | Middle-Late Triassic          | Sahul Gp; CS 2.3                    | -12.123753 | 125.00446  | WOZ1  |
| AU0037   | Australia | Bonaparte/Vulcan  | Challis        | 3; DST 1           | 4531    | Middle-Late Triassic          | Sahul Gp; CS 3.1                    | -12.115125 | 125.022888 | WOZ1  |
| AU0038   | Australia | Bonaparte/Vulcan  | Challis        | 7; DST 1           | 4506    | Middle-Late Triassic          | Sahul Gp; CS 5.4 & 4.1              | -12.105367 | 125.04056  | WOZ1  |
| AU0039   | Australia | Bonaparte/Vulcan  | Challis        | 8; DST 1           | 4572    | Middle-Late Triassic          | Sahul Gp; CS 6.1                    | -12.10216  | 125.04782  | WOZ1  |
| AU0040   | Australia | Bonaparte/Vulcan  | Jabiru         | 1A; PROD 2         | 5276    | Early-Middle Jurassic         | Troughton Gp; Plover Fm             | -11.933561 | 125.00408  | WOZ1  |
| AU0041   | Australia | Bonaparte/Vulcan  | Jabiru         | 8A ST1; DST 1      | 5807    | Late Jurassic                 | Swan Gp; Upper Vulcan Fm            | -11.93652  | 125.01038  | WOZ1  |
| AU0042   | Australia | Bonaparte/Vulcan  | Jabiru         | 11 ST 1; RFT 1     | 5421    | Late Jurassic                 | Swan Gp; Upper Vulcan Fm            | -11.94203  | 124.9933   | WOZ1  |
| AU0043   | Australia | Bonaparte/Vulcan  | Puffin         | 1; RFT 1           | 6781    | Late Cretaceous               | Bathurst Island Gp; Puffin/Borde Fm | -12.308333 | 124.33611  | WOZ1  |
| AU0044   | Australia | Bonaparte/Vulcan  | Puffin         | 2; RFT 4           | 6667    | Late Cretaceous               | Bathurst Island Gp; Puffin/Borde Fm | -12.36295  | 124.2754   | WOZ1  |
| AU0045   | Australia | Bonaparte/Vulcan  | Skua           | 2; DST 1           | 7651    | Cretaceous                    | Bathurst Island Fm; basal sst       | -12.509516 | 124.40344  | WOZ1  |
| AU0046   | Australia | Bonaparte/Vulcan  | Skua           | 3; DST 1           | 7795    | Early-Middle Jurassic         | Troughton Gp; Plover Fm             | -12.506121 | 124.41466  | WOZ1  |
| AU0047   | Australia | Bonaparte/Vulcan  | Skua           | 8; Completion      | 7575    | Early-Middle Jurassic         | Troughton Gp; Plover Fm             | -12.509094 | 124.4067   | WOZ1  |
| AU0048   | Australia | Bonaparte/Vulcan  | Skua           | 9 ST 1; Completion | 7589    | Early-Middle Jurassic         | Troughton Gp; Plover Fm             | -12.498047 | 124.419972 | WOZ1  |
| AU0049   | Australia | Bonaparte/Vulcan  | Sunrise        | 1; FIT 2           | 7278    | Late Jurassic                 | Flamingo Gp; Flamingo Fm            | -9.590097  | 128.15378  | WOZ1  |
| AU0050   | Australia | Bonaparte/Vulcan  | Sunrise        | 1; FIT 2           | 7231    | Late Jurassic                 | Lower Flamingo Gp                   | -9.590097  | 128.15378  | WOZ1  |
| AU0051   | Australia | Bonaparte/Vulcan  | Swan           | 1; FIT 1           | 7756    | Late Cretaceous               | Bathurst Island Gp; Fenelon Fm      | -12.18816  | 124.49283  | WOZ1  |
| AU0052   | Australia | Bonaparte/Vulcan  | Swan           | 3; RFT 3/4         | 7582    | Late Cretaceous               | Bathurst Island Gp; Puffin Sst      | -12.194375 | 124.491953 | WOZ1  |
| AU0053   | Australia | Bonaparte/Vulcan  | Troubadour     | 1; DST 2           | 7310    | Late Jurassic                 | Flamingo Fm                         | -9.734394  | 128.12375  | WOZ1  |
| AU0054   | Australia | Carnarvon/Dampier | Cossack        | 1; PROD            | 9482    | Late Jurassic                 | Angel Fm                            | -19.55604  | 116.49595  | WOZ1  |
| AU0055   | Australia | Carnarvon/Dampier | Cossack        | 1; PROD            | 9482    | Late Jurassic                 | Angel Fm                            | -19.55604  | 116.49595  | WOZ1  |
| AU0056   | Australia | Carnarvon/Barrow  | Flag           | 1; DST 1           | 4167    | Early Cretaceous              | Muderong Shl; Windalia Sst Mbr      | -20.46527  | 115.64565  | WOZ1  |
| AU0057   | Australia | Carnarvon/Barrow  | Harriet        | A6; PROD           | 6234    | Early Cretaceous              | Barrow Gp; Flag Sst                 | -20.6036   | 115.6125   | WOZ1  |
| AU0058   | Australia | Carnarvon/Barrow  | Hilda          | 1A; FIT 3          | 8758    | Early Cretaceous              | Barrow Gp                           | -21.19985  | 114.637    | WOZ1  |
| AU0059   | Australia | Carnarvon/Beagle  | Nebo           | 1; DST 1           | 8740    | Middle Jurassic               | Upper Calypso                       | -18.7808   | 117.8275   | WOZ1  |
| AU0060   | Australia | Carnarvon/Barrow  | Pasco          | 1; DST8            | 5991    | Early Cretaceous              | Barrow Gp; Malouet Fm               | -20.97194  | 115.325    | WOZ1  |
| AU0061   | Australia | Carnarvon/Barrow  | Saladin        | 8                  | 3500    | Early Cretaceous              | Barrow Gp                           | -21.4416   | 115.0531   | WOZ1  |
| AU0062   | Australia | Carnarvon/Barrow  | Sinbad         | 1; PROD            | 6650    | Early Cretaceous              | Barrow Gp; Flag Sst                 | -20.48397  | 115.7105   | WOZ1  |
| AU0063   | Australia | Carnarvon/Barrow  | South Pepper   | 1; DST 4           | 7264    | Early Cretaceous              | Barrow Gp; Malouet Fm               | -21.1249   | 115.27476  | WOZ1  |
| AU0064   | Australia | Carnarvon/Barrow  | South Pepper   | 8                  | 3000    | Early Cretaceous              | Barrow Gp; Flacourt Fm              | -21.1247   | 115.2747   | WOZ1  |
| AU0065   | Australia | Carnarvon/Barrow  | South Pepper   | 10; PROD           | 3000    | Early Cretaceous              | Barrow Gp; Flacourt Fm              | -21.1248   | 115.2700   | WOZ1  |
| AU0066   | Australia | Carnarvon/Barrow  | Spar           | 1; DST 4           | 8599    | Early Cretaceous              | Barrow Gp; Flacourt Fm              | -20.61435  | 114.88503  | WOZ1  |
| AU0067   | Australia | Carnarvon/Dampier | Wanana         | 1; RFT 1           | 9503    | Late Jurassic                 | Angel Fm                            | -19.59313  | 116.43405  | WOZ1  |
| AU0068   | Australia | Carnarvon/Dampier | Wanana         | 2; PROD            | 9505    | Late Jurassic                 | Angel Fm                            | -19.61372  | 116.41123  | WOZ1  |
| AU0069   | Australia | Carnarvon/Dampier | Wanana         | 4; PROD 2          | 9521    | Late Jurassic                 | Angel Fm                            | -19.63123  | 116.39546  | WOZ1  |
| AU0071   | Australia | Carnarvon/Barrow  | Barrow         | 1; DST 16          | 6750    | Late Jurassic                 | Dupuy Fm; Unit D                    | -20.81833  | 115.39388  | WOZ1  |
| AU0072   | Australia | Carnarvon/Barrow  | Barrow Deep    | 1; PROD 1          | 11250   | Middle Jurassic               | Biggada Sst                         | -20.8353   | 115.38224  | WOZ1  |
| AU0073   | Australia | Carnarvon/Barrow  | Barrow Island  | 15; PROD           | 1000    | Early Cretaceous              | Muderong Shl; Windalia Sst Mbr      | -20.8522   | 115.3955   | WOZ1  |
| AU0074   | Australia | Carnarvon/Barrow  | Barrow Island  | 17                 | 7490    | Early Cretaceous              | Muderong Shl; Windalia Sst Mbr      | -20.8453   | 115.3442   | WOZ1  |
| AU0075   | Australia | Carnarvon/Barrow  | Chevil         | 4; PROD 1          | 4541    | Early Cretaceous              | Top Barrow Gp; Flacourt Fm          | -21.31099  | 115.22703  | WOZ1  |
| AU0076   | Australia | Carnarvon/Dampier | East Spar      | 1; DST1A           | 8247    | Early Cretaceous              | Top Barrow Gp; Flacourt Fm          | -20.70775  | 114.97974  | WOZ1  |
| AU0077   | Australia | Carnarvon/Dampier | East Spar      | 1; DST1A           | 8247    | Early Cretaceous              | Top Barrow Gp; Flacourt Fm          | -20.70775  | 114.97974  | WOZ1  |
| AU0078   | Australia | Carnarvon/Dampier | Echo           | 1; DST 1           | 9800    | Late Triassic                 | Mungaroo Fm                         | -19.71181  | 115.72269  | WOZ1  |
| AU0079   | Australia | Carnarvon/Barrow  | Elder          | 1; DST 1           | 5836    | Late Triassic                 | Mungaroo Fm                         | -21.312    | 115.2314   | WOZ1  |
| AU0080   | Australia | Carnarvon/Barrow  | Flinders Shoal | 1; DST 1A          | 8520    | Early Cretaceous              | Winning Gp; Birdrong Sst            | -21.07111  | 115.52166  | WOZ1  |
| AU0081   | Australia | Carnarvon/Barrow  | Harriet        | A3; PROD           | 6240    | Early Cretaceous              | Barrow Gp; Flag Sst                 | -20.6033   | 115.6128   | WOZ1  |
| AU0082   | Australia | Carnarvon/Barrow  | Harriet        | A5; PROD           | 6194    | Early Cretaceous              | Barrow Gp; Flag Sst                 | -20.60333  | 115.61278  | WOZ1  |
| AU0083   | Australia | Carnarvon/Barrow  | Harriet        | B1; DST 2          | 6376    | Early Cretaceous              | Barrow Gp; Flag Sst                 | -20.6033   | 115.6125   | WOZ1  |
| AU0084   | Australia | Carnarvon/Barrow  | Harriet        | B3                 | 6264    | Early Cretaceous              | Barrow Gp; Flag Sst                 | -20.60332  | 115.6125   | WOZ1  |
| AU0085   | Australia | Carnarvon/Barrow  | Hilda          | 1A; FIT 3          | 8757    | Early Cretaceous              | Barrow Gp                           | -21.19985  | 114.637    | WOZ1  |
| AU0087   | Australia | Carnarvon/Barrow  | North Herald   | 3; DST 1           | 4692    | Early Cretaceous              | Barrow Gp; Flacourt Fm              | -21.17524  | 115.2638   | WOZ1  |
| AU0088   | Australia | Carnarvon/Exmouth | Rough Range    | 1; DST1            | 3606    | Early Cretaceous              | Winning Gp; Birdrong Sst            | -22.41719  | 114.081373 | WOZ1  |
| AU0089   | Australia | Carnarvon/Exmouth | Rough Range    | 1A                 | 3600    | Early Cretaceous              | Winning Gp; Birdrong Sst            | -22.25305  | 114.08388  | WOZ1  |
| AU0090   | Australia | Carnarvon/Barrow  | Saladin        | 1; RFT 2           | 3703    | Early Cretaceous              | Barrow Gp; Flacourt Fm              | -21.44161  | 115.05316  | WOZ1  |
| AU0091   | Australia | Carnarvon/Barrow  | Saladin        | 2; DST 1           | 3643    | Early Cretaceous              | Barrow Gp; Flacourt Fm              | -21.44694  | 115.03944  | WOZ1  |
| AU0092   | Australia | Carnarvon/Barrow  | Saladin        | 3; DST 1           | 3650    | Early Cretaceous              | Barrow Gp; Flacourt Fm              | -21.47102  | 115.02324  | WOZ1  |
| AU0093   | Australia | Carnarvon/Dampier | Angel          | 1; DST 2           | 8809    | Late Jurassic                 | Angel Fm                            | -19.5056   | 116.5967   | WOZ1  |
| AU0094   | Australia | Carnarvon/Dampier | Angel          | 2; DST 1A          | 8996    | Late Jurassic                 | Angel Fm                            | -19.46624  | 116.65689  | WOZ1  |
| AU0095   | Australia | Carnarvon/Dampier | Angel          | 3; DST 1           | 8990    | Late Jurassic                 | Angel Fm                            | -19.5418   | 116.6285   | WOZ1  |
| AU0096   | Australia | Carnarvon/Dampier | Central Gorgon | 1; DST 3           | 13173   | Late Triassic                 | Mungaroo Fm                         | -20.4692   | 114.8092   | WOZ1  |
| AU0097   | Australia | Carnarvon/Dampier | Dockrell       | 1; DST 2           | 9856    | Late Triassic                 | Mungaroo Fm                         | -19.78798  | 115.77979  | WOZ1  |
| AU0098   | Australia | Carnarvon/Dampier | Dockrell       | 1; DST 1           | 9800    | Late Triassic                 | Mungaroo Fm                         | -19.78798  | 115.77979  | WOZ1  |
| AU0099   | Australia | Carnarvon/Dampier | Dockrell       | 1; DST 1           | 9800    | Late Triassic                 | Mungaroo Fm                         | -19.78798  | 115.77979  | WOZ1  |
| AU0100   | Australia | Carnarvon/Dampier | Eaglehawk      | 1; DST 2           | 9022    | Late Triassic                 | Brigadier Fm                        | -19.50825  | 116.27689  | WOZ1  |
| AU0101   | Australia | Carnarvon/Dampier | Egret          | 1; DST 1           | 10233   | Late Jurassic                 | Angel Fm                            | -19.50645  | 116.34713  | WOZ1  |
| AU0102   | Australia | Carnarvon/Dampier | Goodwyn        | 1; DST 1           | 9324    | Late Triassic                 | Mungaroo Fm                         | -19.69355  | 115.89544  | WOZ1  |
| AU0103   | Australia | Carnarvon/Dampier | Goodwyn        | 1; DST 1           | 9324    | Late Triassic                 | Mungaroo Fm                         | -19.69355  | 115.89544  | WOZ1  |
| AU0104   | Australia | Carnarvon/Dampier | Goodwyn        | 3; DST 3           | 9446    | Late Triassic                 | Mungaroo Fm                         | -19.73585  | 115.87785  | WOZ1  |
| AU0105   | Australia | Carnarvon/Dampier | Goodwyn        | 4; DST 2           | 9370    | Late Triassic                 | Mungaroo Fm                         | -19.69388  | 115.84836  | WOZ1  |
| AU0106   | Australia | Carnarvon/Dampier | Goodwyn        | 4; DST 2           | 9370    | Late Triassic                 | Mungaroo Fm                         | -19.69388  | 115.84836  | WOZ1  |
| AU0107   | Australia | Carnarvon/Dampier | Goodwyn        | 5; PROD TEST       | 9301    | Late Triassic                 | Mungaroo Fm                         | -19.6783   | 115.89583  | WOZ1  |
| AU0108   | Australia | Carnarvon/Dampier | Goodwyn        | 7; PROD TEST       | 9226    | Late Triassic                 | Mungaroo Fm                         | -19.62635  | 115.96022  | WOZ1  |
| AU0109   | Australia | Carnarvon/Dampier | Gorgon         | 1; DST 4           | 13035   | Late Triassic                 | Mungaroo Fm                         | -20.57867  | 114.77274  | WOZ1  |
| AU0110   | Australia | Carnarvon/Dampier | Lambert        | 1;DST 1A           | 10174   | Late Jurassic                 | Angel Fm                            | -19.45643  | 116.48971  | WOZ1  |
| AU0111   | Australia | Carnarvon/Dampier | Lambert        | 1;DST 1A           | 10174   | Late Jurassic                 | Angel Fm                            | -19.4564   | 116.4897   | WOZ1  |
| AU0112   | Australia | Carnarvon/Dampier | North Gorgon   | 1; DST 4           | 12272   | Late Jurassic                 | Mungaroo Fm                         | -20.38448  | 114.86155  | WOZ1  |
| AU0113   | Australia | Carnarvon/Dampier | North Rankin   | 4; DST1            | 9777    | Middle Jurassic               | Legendre Fm                         | -19.58516  | 116.11164  | WOZ1  |
| AU0114   | Australia | Carnarvon/Dampier | North Rankin   | A; PROD            | 8500    | Late Jurassic                 | Mungaroo Fm                         | -19.585    | 116.112    | WOZ1  |
| AU0115   | Australia | Carnarvon/Dampier | Rankin         | 1; FIT 8           | 9692    | Late Triassic                 | Mungaroo Fm                         | -19.7989   | 115.7421   | WOZ1  |

**TABLE 1 (Cont'd)**  
**Samples Analyzed for WOZ 1 and WOZ 2 Studies**

| SampleID | Country   | Basin                  | Field            | Well            | U Depth | Reservoir Age                       | Reservoir Formation                     | Lat        | Long       | Study |
|----------|-----------|------------------------|------------------|-----------------|---------|-------------------------------------|---|------------|------------|-------|
| AU0116   | Australia | Carnarvon/Dampier      | Talisman         | 1; DST 1B       | 6434    | Late Jurassic/Early Cretaceous      | Angel Fm                                | -19.4954   | 116.9399   | WOZ1  |
| AU0117   | Australia | Carnarvon/Dampier      | Talisman         | 1; DST 2        | 6383    | Late Jurassic/Early Cretaceous      | Angel Fm                                | -19.4954   | 116.9399   | WOZ1  |
| AU0118   | Australia | Carnarvon/Dampier      | Talisman         | 1; DST 3        | 6291    | Early Cretaceous                    | Winning Gp; Muderong Shl                | -19.4954   | 116.9399   | WOZ1  |
| AU0119   | Australia | Carnarvon/Dampier      | Tidepole         | 1; WFT 10       | 9901    | Late Triassic                       | Mungaroo Fm                             | -19.7687   | 115.8849   | WOZ1  |
| AU0120   | Australia | Carnarvon/Dampier      | West Tryal Rocks | 2; DST 3        | 10810   | Late Triassic                       | Mungaroo Fm                             | -20.21568  | 115.0654   | WOZ1  |
| AU0121   | Australia | Carnarvon/Dampier      | West Tryal Rocks | 3; DST 3        | 11266   | Early Cretaceous                    | Winning Gp; Muderong Shl                | -20.15496  | 115.04905  | WOZ1  |
| AU0122   | Australia | Perth                  | Dongara          | 14              | 5400    | Early Triassic                      | Kockatea Shl                            | -29.22555  | 115.01749  | WOZ1  |
| AU0123   | Australia | Perth                  | Erregulla        | 1; Swab Test    | 10413   | Early Jurassic                      | Cockleshell Gully Fm, Multicoloured Mbr | -29.37722  | 115.39749  | WOZ1  |
| AU0124   | Australia | Perth                  | Gage Roads       | 1; DST 1A/2A    | 5774    | Early Cretaceous                    | Perth Fm; Gage Sst Mbr                  | -31.95578  | 115.3773   | WOZ1  |
| AU0125   | Australia | Perth                  | Gingin           | 1; DST 13       | 12700   | Early Jurassic                      | Cockleshell Gully Fm                    | -31.14305  | 115.82722  | WOZ1  |
| AU0126   | Australia | Perth                  | Mondarra         | 1; DST 2        | 8852    | Early Triassic                      | Basal sand                              | -29.30163  | 115.11666  | WOZ1  |
| AU0127   | Australia | Perth                  | Mondarra         | 2; PROD TEST    | 8976    | Permian                             | Wagina Fm; Basal sand                   | -29.3525   | 115.10333  | WOZ1  |
| AU0128   | Australia | Perth                  | Mondarra         | 3; DST 1        | 9304    | Early Triassic                      | Basal sand                              | -29.29333  | 115.11277  | WOZ1  |
| AU0129   | Australia | Perth                  | Mount Horner     | 1; DST 4        | 4869    | Early Triassic                      | Kockatea Shl                            | -29.12833  | 115.08499  | WOZ1  |
| AU0130   | Australia | Perth                  | North Erregulla  | 1; DST 1        | 9577    | Early Triassic                      | Kockatea Shl                            | -29.23861  | 115.32694  | WOZ1  |
| AU0131   | Australia | Perth                  | Walyering        | 1; PROD TEST 3  | 11050   | Early Jurassic                      | Cockleshell Gully Fm; Cattamarra Coal M | -30.71583  | 115.46527  | WOZ1  |
| AU0132   | Australia | Perth                  | Walyering        | 2; PROD TEST 4  | 13064   | Early Jurassic                      | Cockleshell Gully Fm; Cattamarra Mbr.   | -30.71583  | 115.46527  | WOZ1  |
| AU0133   | Australia | Perth                  | Whicher Range    | 1; DST 7        | 13780   | Permian                             | Nangetty Fm                             | -33.83861  | 115.37166  | WOZ1  |
| AU0134   | Australia | Perth                  | Woodada          | 3; DST 2        | 8119    | Permian/E. Triassic                 | Carynginia Fm                           | -29.75472  | 115.15583  | WOZ1  |
| AU0135   | Australia | Perth                  | Yardarino        | 1; DST 3        | 7543    | Permian                             | Wagina Fm                               | -29.22194  | 115.055    | WOZ1  |
| AU0136   | Australia | Perth                  | Yardarino        | 1; DST 3        | 7543    | Permian                             | Wagina Fm                               | -29.22194  | 115.055    | WOZ1  |
| AU0137   | Australia | Perth                  | Yardarino        | 1; DST 3        | 7543    | Permian                             | Wagina Fm                               | -29.22194  | 115.055    | WOZ1  |
| AU0138   | Australia | Perth                  | Dongara          | 4; PROD TEST 1  | 5640    | Early Permian                       | Irwin River Coal Measures               | -29.23055  | 114.98222  | WOZ1  |
| AU0140   | Australia | Canning                | Blina            | 2; DST 5        | 4823    | Late Devonian                       | Nullara Lst                             | -17.6186   | 124.4965   | WOZ1  |
| AU0141   | Australia | Canning                | Blina            | 5; DST 2        | 4780    | Late Devonian                       | Nullara Lst                             | -17.62638  | 124.50777  | WOZ1  |
| AU0142   | Australia | Canning                | Dodonea          | 1; DST 1        | 4984    | Ordovician                          | Goldwyer Fm                             | -19.38639  | 125.16083  | WOZ1  |
| AU0143   | Australia | Canning                | Janpam North     | 1; DST 1        | 5394    | Late Devonian                       | Nullara Lst                             | -17.56833  | 124.41652  | WOZ1  |
| AU0144   | Australia | Canning                | Lloyd            | 1; DST 1        | 4961    | Early Carboniferous                 | Anderson Fm                             | -17.46749  | 124.24916  | WOZ1  |
| AU0145   | Australia | Canning                | Meda             | 1; DST 9A/9B/9C | 5108    | Late Carboniferous                  | Laurel Fm                               | -17.4      | 124.19167  | WOZ1  |
| AU0146   | Australia | Canning                | Mirbelia         | 1; DST 2        | 6027    | Devonian                            | Mellinjerie Lst                         | -19.65222  | 125.36029  | WOZ1  |
| AU0147   | Australia | Canning                | Pictor           | 2; PROD TEST    | 3048    | Ordovician                          | Nita Fm                                 | -18.76587  | 123.71362  | WOZ1  |
| AU0148   | Australia | Canning                | Sundown          | 1; RFT 2        | 3602    | Late Carboniferous/Early Permian    | Grant Gp                                | -17.55277  | 124.24194  | WOZ1  |
| AU0149   | Australia | Canning                | Sundown          | 4; DST 1/3/4/5  | 3835    | Carboniferous                       | Grant Gp - Anderson Fm                  | -17.5533   | 124.2408   | WOZ1  |
| AU0150   | Australia | Canning                | West Terrace     | 1; DST 1        | 3763    | Late Carboniferous/Early Permian    | Grant Gp                                | -17.50722  | 124.2589   | WOZ1  |
| AU0151   | Australia | Canning                | West Terrace     | 2; PROD         | 3930    | Late Carboniferous                  | Lower Grant Gp                          | -17.50411  | 124.25969  | WOZ1  |
| AU0152   | Australia | Carnarvon/Dampier      | Legendre         | 1; DST 2        | 6211    | Early Cretaceous                    | Barrow Gp                               | -19.67194  | 116.73208  | WOZ1  |
| AU0153   | Australia | Carnarvon/Barrow       | Pasco            | 1; DST 6        | 5741    | Early Cretaceous                    | Barrow Gp; Malouet Fm                   | -20.97194  | 115.325    | WOZ1  |
| AU0279   | Australia | Browse                 | North Scott Reef | 1; PROD TEST    | 13855   | Early Jurassic                      | Un-named                                | -13.94845  | 121.97543  | WOZ1  |
| AU0328   | Australia | Carnarvon/Barrow       | Maitland         | 1; DST 1/2      | 4154    | Tertiary                            | Dockrel Fm; Top Sand Mbr                | -20.5624   | 115.1742   | WOZ1  |
| AU0329   | Australia | Canning                | Blina            | 1; DST 2/3/8/13 | 3806    | Late Devonian                       | Nullara Lst or Yellow Drum              | -17.623333 | 124.50139  | WOZ1  |
| AU0351   | Australia | Bonaparte              | Barnett          | 2; DST          | 7851    | Early Carboniferous                 | Milligans Fm; Barnett Mbr               | -14.5323   | 129.0522   | WOZ1  |
| AU0352   | Australia | Bonaparte              | Barnett          | 2; DST 3?       | 4892    | Late Carboniferous/Early Permian    | Kulshill Gp; Upper Kuriyippi Fm         | -14.5323   | 129.0522   | WOZ1  |
| AU0353   | Australia | Bonaparte              | Petrel           | 4; DST 4        | 11713   | Late Permian                        | Hyland Bay Fm                           | -12.8884   | 128.4948   | WOZ1  |
| AU0360   | Australia | Carnarvon/Barrow       | Australind       | 1 RFT 4         | 3996    | Early Cretaceous                    | Barrow Gp                               | -21.41502  | 115.03828  | WOZ1  |
| AU0362   | Australia | Carnarvon/Barrow       | Barrow Island    | 1 L64M          | 1000    | Early Cretaceous                    | Winning Gp; Gardie Greensand            | -20.82666  | 115.38111  | WOZ1  |
| AU0363   | Australia | Carnarvon/Barrow       | Barrow Island    | X5SJ            | 5551    | Early Cretaceous                    | Barrow Gp                               | -20.72722  | 115.42639  | WOZ1  |
| AU0366   | Australia | Carnarvon/Barrow       | Crest            | 1 Well Head     | 3798    | Early Cretaceous                    | Winning Gp; Gardie Greensand            | -21.45511  | 115.01479  | WOZ1  |
| AU0367   | Australia | Perth                  | Dongara          | 14 DST 1        | 5692    | Triassic                            | Basal Sandstone                         | -29.22565  | 115.01749  | WOZ1  |
| AU0368   | Australia | Perth                  | Dongara          | 4 DST 1         | 5529    | Triassic                            | Basal Sandstone                         | -29.23055  | 114.98222  | WOZ1  |
| AU0369   | Australia | Perth                  | Erregulla        | 1 Swab Test     | 10411   | Early Jurassic                      | Cockleshell Gully Fm                    | -29.37444  | 115.39583  | WOZ1  |
| AU0370   | Australia | Carnarvon/Barrow       | Barrow Island    | F81FL           | 1000    | Early Cretaceous                    | Barrow Gp; Flacourt Fm                  | -20.82     | 115.38     | WOZ1  |
| AU0371   | Australia | Carnarvon/Barrow       | Flinders Shoal   | 1 DST1/1A       | 2600    | Early Cretaceous                    | Winning Gp; Birdrong Sst                | -21.07111  | 115.52167  | WOZ1  |
| AU0374   | Australia | Carnarvon/Barrow       | Barrow Island    | L64MA           | 2758    | Early Cretaceous                    | Winning Gp; Muderong Shl                | -20.82152  | 115.38226  | WOZ1  |
| AU0382   | Australia | Carnarvon/Barrow       | Yammaderry       | 2 Well Head     | 3612    | Early Cretaceous                    | Barrow Gp                               | -21.49078  | 114.98886  | WOZ1  |
| AU0383   | Australia | Carnarvon/Barrow       | Rosette          | 1 RFT 2         | 7861    | Early Cretaceous                    | Barrow Gp; Flag Mbr                     | -20.65658  | 115.57394  | WOZ1  |
| AU0384   | Australia | Carnarvon/Barrow       | Campbell         | 1 RFT 1         | 7270    | Early Cretaceous                    | Barrow Gp; Flag Mbr                     | -20.415    | 115.728    | WOZ1  |
| AU0385   | Australia | Carnarvon/Barrow       | Tanami           | 1 RFT           | 7154    | Early Cretaceous                    | Barrow Gp; Flag Mbr                     | -20.65486  | 115.57976  | WOZ1  |
| AU0386   | Australia | Carnarvon/Barrow       | Bambra           | 2 DST 3         | 6667    | Early Cretaceous                    | Barrow Gp; Flag Mbr                     | -20.5456   | 115.60066  | WOZ1  |
| AU0387   | Australia | Carnarvon/Barrow       | Bambra           | 1 RFT 14        | 11944   | Jurassic                            | Barrow Gp; Flag Mbr                     | -20.52623  | 115.63227  | WOZ1  |
| AU0388   | Australia | Carnarvon/Exmouth      | Leatherback      | 1 DST1          | 5746    | Late Triassic                       | Mungaroo Fm                             | -21.68555  | 114.36515  | WOZ1  |
| AU0552   | Australia | Canning                | Blina            | 2               | 3806    |                                     |   | -17.6186   | 124.4965   | WOZ1  |
| AU0554   | Australia | North Carnarvon Basin  | Enfield          | 1; DST-1        | 6000    |                                     |   | -21.488    | 113.978    | WOZ1  |
| AU0555   | Australia | North Carnarvon Basin  | Vincent          | 1; DST 1A       | 4100    | Hauterivian                         | Birdsong                                | -21.423    | 114.046    | WOZ1  |
| AU0556   | Australia | Carnarvon/Dampier      | Wandoo           | 1               | 1989    | Early Cretaceous                    | Muderong Shl                            | -20.139058 | 116.422069 | WOZ2  |
| AU0557   | Australia | Bonaparte/Laminaria Hi | Laminaria        | 2; DST 1        | 10778   | Middle-Late Jurassic                | Elang Fm                                | -20.137739 | 116.423421 | WOZ2  |
| AU0558   | Australia | Carnarvon/Dampier      | Chrysaor         | 1; DST          | 11329   | Late Triassic                       | Mungaroo Fm                             | -10.632189 | 126.041799 | WOZ2  |
| AU0559   | Australia | Carnarvon/Dampier      | Chrysaor         | 1; DST 2        | 10587   | Late Triassic                       | Mungaroo Fm                             | -20.18138  | 114.885164 | WOZ2  |
| AU0560   | Australia | Carnarvon/Dampier      | Gorgon           | 1; DST 7        | 11040   | Early Cretaceous                    | Malouet Fm                              | -20.18138  | 114.885164 | WOZ2  |
| AU0561   | Australia | Carnarvon/Dampier      | North Gorgon     | 2; DST 1        | 12959   | Late Triassic                       | Mungaroo Fm                             | -20.577465 | 114.773897 | WOZ2  |
| AU0562   | Australia | Carnarvon/Dampier      | North Gorgon     | 2; DST 4        | 11306   | Late Triassic                       | Mungaroo Fm                             | -20.347103 | 114.854741 | WOZ2  |
| AU0563   | Australia | Carnarvon/Exmouth      | Novara           | 1; Prod Test 1  | 4170    | Early Cretaceous                    | Barrow Gp                               | -20.347103 | 114.854741 | WOZ2  |
| AU0564   | Australia | Carnarvon/Barrow       | Roller           | 1; DST 1        | 2987    | Early Cretaceous                    | Flacourt Fm                             | -21.356073 | 114.076211 | WOZ2  |
| AU0565   | Australia | Carnarvon/Barrow       | Saladin          | 11              | 5404    | Early Cretaceous                    | Mardie Greensand                        | -21.633744 | 114.927358 | WOZ2  |
| AU0566   | Australia | Carnarvon/Barrow       | Skate            | 5               | 3755    | Early Cretaceous                    | Barrow Gp                               | -21.459722 | 115.023056 | WOZ2  |
| AU0567   | Australia | Carnarvon/Barrow       | Venture          | 1               | 9675    | Early Cretaceous                    | Muderong Shl                            | -21.648278 | 114.978806 | WOZ2  |
| AU0568   | Australia | Bonaparte/Petrel       | Waggon Creek     | 1; DST 3        | 1923    | Early Carboniferous                 | Milligans Fm                            | -20.140265 | 115.321893 | WOZ2  |
| AU0569   | Australia | Canning                | West Kora        | 1; PT 1         | 5692    | Early Carboniferous                 | Anderson Fm                             | -15.325021 | 128.711789 | WOZ2  |
| AU0570   | Australia | Browse/Caswell         | North Scott Reef | 1; RFT 1        | 13915   | Early Jurassic                      |   | -17.246554 | 123.816666 | WOZ2  |
| AU0571   | Australia | Browse/Caswell         | Scott Reef       | 1; FIT 2        | 14107   | Middle Jurassic-late Early Jurassic |   | -13.94726  | 121.976528 | WOZ2  |
| AU0572   | Australia | Browse/Caswell         | Caswell          | 2; RFT 1/6      | 10714   | Late Cretaceous                     |   | -14.074916 | 121.825754 | WOZ2  |
| AU0573   | Australia | Browse/Yampi Shelf     | Gwydion          | 1; RFT 1        | 2667    | Early Cretaceous                    |   | -14.241334 | 122.470618 | WOZ2  |
| AU0574   | Australia | Browse/Yampi Shelf     | Comea            | 1; FMT          | 2638    | Early Cretaceous                    | Upper Heywood Fm                        | -14.529326 | 123.98194  | WOZ2  |
| AU0575   | Australia | Carnarvon/Dampier      | Stag             | 1; RFT 2        | 2358    | Early Cretaceous                    | Muderong Shl                            | -13.698306 | 124.92061  | WOZ2  |
| AU0576   | Australia | Bonaparte/Flamingo Hi  | Bayu             | 1; DST 4        | 9777    | Early-Middle Jurassic               | Plover Fm                               | -20.287186 | 116.258066 | WOZ2  |
| AU0577   | Australia | Bonaparte/Laminaria Hi | Buffalo          | 1; DST 1        | 10850   | Middle-Late Jurassic                | Elang Fm                                | -11.096413 | 126.67711  | WOZ2  |
| AU0578   | Australia | Bonaparte/Flamingo Hi  | Elang            | 1; DST 1        | 9865    | Middle-Late Jurassic                | Elang Fm                                | -10.674038 | 126.09864  | WOZ2  |
| AU0579   | Australia | Bonaparte/Flamingo Hi  | Elang            | 2; DST 1B       | 10046   | Middle-Late Jurassic                | Elang Fm                                | -10.885528 | 126.601718 | WOZ2  |
| AU0580   | Australia | Bonaparte/Flamingo Hi  | Elang West       | 1; DST 1        | 9259    | Early Cretaceous                    | Darwin Fm                               | -10.881473 | 126.586996 | WOZ2  |
| AU0581   | Australia | Bonaparte/Flamingo Hi  | Kakatua          | 1; DST 1        | 10367   | Early-Middle Jurassic               | Plover Fm                               | -10.884731 | 126.537427 | WOZ2  |
| AU0582   | Australia | Bonaparte/Laminaria Hi | Laminaria East   | 1; RFT 1        | 10791   | Middle-Late Jurassic                | Elang Fm                                | -10.855465 | 126.471111 | WOZ2  |
| AU0583   | Australia | Bonaparte/Flamingo Hi  | Undan            | 1; DST 2        | 9898    | Middle-Late Jurassic                | Elang Fm                                | -10.634811 | 126.051059 | WOZ2  |

**TABLE 1 (Cont'd)**  
**Samples Analyzed for WOZ 1 and WOZ 2 Studies**

| SampleID | Country    | Basin                   | Field              | Well            | U Depth | Reservoir Age         | Reservoir Formation                     | Lat        | Long       | Study |
|----------|------------|-------------------------|--------------------|-----------------|---------|-----------------------|---|------------|------------|-------|
| AU0584   | Australia  | Bonaparte/Flamingo Hi   | Undan              | 4; DST 1        | 10223   | Middle-Late Jurassic  | Elang Fm                                | -11.046935 | 126.549922 | WOZ2  |
| AU0585   | Australia  | Bonaparte/Vulcan        | Talbot             | 2; DST 1        | 4980    | Late Triassic         | Challis Fm                              | -11.046935 | 126.549922 | WOZ2  |
| AU0586   | Australia  | Bonaparte/Laminaria Hi  | Laminaria          | 1; DST 2        | 10541   | Middle-Late Jurassic  | Laminaria Fm                            | -12.458185 | 124.9048   | WOZ2  |
| AU0587   | Australia  | Bonaparte/Laminaria Hi  | Corallina          | 1; DST 1        | 10453   | Middle-Late Jurassic  | Laminaria Fm                            | -10.628998 | 126.029464 | WOZ2  |
| AU0588   | Australia  | Bonaparte/Vulcan        | Tenacious          | 1; PT 7         | 9183    | Late Jurassic         | Upper Vulcan Fm                         | -10.592759 | 125.957109 | WOZ2  |
| AU0589   | Australia  | Bonaparte/Vulcan        | Montara            | 2; RFS-AD RFT   | 9770    | Late Jurassic         | Montara Fm                              | -11.859444 | 124.902834 | WOZ2  |
| AU0590   | Australia  | Perth                   | Whicher Range      | 4;              |         | Late Permian          | Upper Sue Coal Measures                 | -12.700458 | 124.526654 | WOZ2  |
| AU0591   | Australia  | Carnarvon/Barrow        | Chervil            | 6; Tank 1       |         | Early Cretaceous      | Barrow Gp                               | -33.83956  | 115.368488 | WOZ2  |
| AU0592   | Australia  | Carnarvon/Barrow        | South Chervil      | 1; DST 2        | 3447    | Early Cretaceous      | Flacourt Fm                             | -21.31116  | 115.228395 | WOZ2  |
| AU0593   | Australia  | Carnarvon/Barrow        | Chervil            | 1; DST 2        | 3442    | Early Cretaceous      | Barrow Gp                               | -21.343331 | 115.204378 | WOZ2  |
| AU0594   | Australia  | Carnarvon/Dampier       | Carbou             | 1; DST 3        | 10755   | Early Jurassic        | North Rankin Fm                         | -21.304709 | 115.226938 | WOZ2  |
| AU0595   | Australia  | Carnarvon/Dampier       | Carbou             | 1; DST 4        | 8100    | Middle Jurassic       | Legendre Fm                             | -20.042603 | 116.303898 | WOZ2  |
| AU0596   | Australia  | Carnarvon/Barrow        | Chervil            | 4; DST          | 4541    | Early Cretaceous      | Barrow Gp; Flacourt Fm                  | -20.042603 | 116.303898 | WOZ2  |
| AU0597   | Australia  | Carnarvon/Barrow        | Elder              | 1; DST 1        | 5837    | Late Triassic         | Mungaroo Fm                             | -21.309991 | 115.227033 | WOZ2  |
| AU0598   | Australia  | Carnarvon               | Airli Island       |                 |         |                       |   | -21.326389 | 115.16722  | WOZ2  |
| AU0599   | Australia  | Carnarvon/Barrow        | Rose               | 1; DST 1        | 8353    | Late Triassic         | Mungaroo Fm                             | -20.595083 | 115.717372 | WOZ2  |
| AU0600   | Australia  | Carnarvon/Barrow        | Rose               | 1; DST 2        | 7986    | Late Triassic         | Brigadier Fm                            | -20.595083 | 115.717372 | WOZ2  |
| AU0601   | Australia  | Carnarvon/Barrow        | Rose               | 1; DST 3        | 7707    | Early Jurassic        | North Rankin Fm                         | -20.595083 | 115.717372 | WOZ2  |
| AU0602   | Australia  | Carnarvon/Barrow        | Aginocourt         | 1 ST 1; SFT     | 5986    | Early Cretaceous      | Flag Sst                                | -20.671335 | 115.514342 | WOZ2  |
| AU0603   | Australia  | Carnarvon/Dampier       | Jaubert            | 1 ST 1; DST 1   | 6234    | Early Cretaceous      | Berriasiian Sst (B. reticulum)          | -19.694275 | 116.721754 | WOZ2  |
| AU0604   | Australia  | Carnarvon/Barrow        | Gipsy              | 1; SFT          | 7075    | Early Jurassic        | North Rankin Fm                         | -20.640464 | 115.721186 | WOZ2  |
| AU0605   | Australia  | Bonaparte/Vulcan        | Bilyara            | 1 ST 1; RFT 1   | 8885    | Late Jurassic         | Montara Fm                              | -12.685708 | 124.507026 | WOZ2  |
| AU0606   | Australia  | Bonaparte/Vulcan        | Bilyara            | 1 ST 1; RFT 2   | 8917    | Late Jurassic         | Montara Fm                              | -12.685708 | 124.507026 | WOZ2  |
| AU0607   | Australia  | Bonaparte/Vulcan        | Birch              | 1 ST 1; RFT 1   | 6695    | Late Cretaceous       | Puffin Fm                               | -12.461763 | 124.496497 | WOZ2  |
| AU0608   | Australia  | Bonaparte/Vulcan        | Cassini            | 1; DST 1        | 4709    | Late Triassic         | Challis Fm                              | -12.147272 | 124.9694   | WOZ2  |
| AU0609   | Australia  | Bonaparte/Vulcan        | Jabiru             | 3; RFT 1 or 2   | 5243    | Late Jurassic         | Petrel Fm                               | -11.922682 | 125.010005 | WOZ2  |
| AU0610   | Australia  | Bonaparte/Vulcan        | Jabiru             | 4; PT 1         | 5292    | Late Jurassic         | Petrel Fm                               | -11.922682 | 125.010013 | WOZ2  |
| AU0611   | Australia  | Bonaparte/Vulcan        | Jabiru             | 4; RFT 1        | 5293    | Late Jurassic         | Petrel Fm                               | -11.922682 | 125.010113 | WOZ2  |
| AU0612   | Australia  | Bonaparte/Vulcan        | Jabiru             | 5A; DST 1       | 5262    | Late Jurassic         | Petrel Fm                               | -11.940918 | 124.991304 | WOZ2  |
| AU0613   | Australia  | Bonaparte/Vulcan        | Jabiru             | 6; RFT          | 5308    | Late Jurassic         |   | -11.931379 | 125.013988 | WOZ2  |
| AU0614   | Australia  | Bonaparte/Vulcan        | Jabiru             | 7; DST 1        | 5436    | Late Jurassic         |   | -11.921607 | 125.01841  | WOZ2  |
| AU0615   | Australia  | Bonaparte/Vulcan        | Montara            | 1; DST 1        | 8667    | Late Jurassic         | Montara Fm                              | -12.690402 | 124.532801 | WOZ2  |
| AU0616   | Australia  | Bonaparte/Vulcan        | Montara            | 1; DST 2        | 8622    | Late Jurassic         | Montara Fm                              | -12.690402 | 124.532801 | WOZ2  |
| AU0617   | Australia  | Bonaparte/Vulcan        | Oliver             | 1; RFT          | 10223   | Early-Middle Jurassic | Plover Fm                               | -11.645866 | 125.009933 | WOZ2  |
| AU0618   | Australia  | Bonaparte/Calder Grab   | Evans Shoal        | 1; RFT 1        | 11660   | Early-Middle Jurassic | Plover Fm                               | -10.082575 | 129.533089 | WOZ2  |
| AU0619   | Australia  | Bonaparte/Vulcan        | Challis            | 2A; DST 1       | 4591    | Late Triassic         | Challis Fm                              | -12.122341 | 125.019702 | WOZ2  |
| AU0620   | Australia  | Bonaparte/Vulcan        | Challis            | 2A; DST 2       | 4525    | Late Triassic         | Challis Fm                              | -12.122341 | 125.019702 | WOZ2  |
| AU0621   | Australia  | Bonaparte/Vulcan        | Skua               | 4; RFT 2        | 7562    | Early-Middle Jurassic | Plover Fm                               | -12.494216 | 124.427122 | WOZ2  |
| AU0622   | Australia  | Browse/Caswell          | Kalyptea           | 1 ST 1; RFT 1   | 14898   | Early Cretaceous      | Upper Vulcan Fm                         | -13.034258 | 123.873465 | WOZ2  |
| AU0623   | Australia  | Bonaparte/Sahul Platfor | Sunset             | 1; DST 1        | 7293    | Early-Middle Jurassic | Plover Fm                               | -9.500489  | 128.10454  | WOZ2  |
| AU0624   | Australia  | Carnarvon/Exmouth       | Enfield            | 1; DST 1        | 6635    | Late Jurassic         | Depuy Fm (Macedon Sst Mbr)              | -21.486908 | 113.978422 | WOZ2  |
| AU0625   | Australia  | Bonaparte/Sahul Platfor | Sunrise            | 2; DST 1        | 7090    | Early-Middle Jurassic | Plover Fm                               | -9.500489  | 128.10454  | WOZ2  |
| AU0626   | Australia  | Bonaparte/Sahul Platfor | Sunrise            | 2; DST 2A       | 6880    | Early-Middle Jurassic | Plover Fm                               | -9.500489  | 128.10454  | WOZ2  |
| AU0627   | Australia  | Bonaparte/Sahul Platfor | Sunset West        | 1; DST 1A       | 7182    | Middle Jurassic       | Upper Plover Fm                         | -9.636636  | 127.900498 | WOZ2  |
| AU0628   | Australia  | Bonaparte/Sahul Platfor | Sunset West        | 1; DST 2        | 7182    | Middle Jurassic       | Upper Plover Fm                         | -9.636636  | 127.900498 | WOZ2  |
| AU0629   | Australia  | Carnarvon/Barrow        | Ramilles           | 1; DST 1        | 8812    | Early Cretaceous      | Mardie Greensand                        | -11.521713 | 126.372869 | WOZ2  |
| AU0630   | Australia  | Carnarvon/Exmouth       | West Muiron        | 5; DST 1        | 3427    | Early Cretaceous      | Barrow Gp                               | -21.548019 | 114.148281 | WOZ2  |
| AU0631   | Australia  | Carnarvon/Dampier       | Goodwyn            | 2; RFT 7        | 9449    | Upper Triassic        |   | -13.663572 | 115.865729 | WOZ2  |
| AU0632   | Australia  | Carnarvon/Dampier       | Goodwyn            | 6; PT 2         | 9915    | Triassic              |   | -19.722089 | 115.854489 | WOZ2  |
| AU0633   | Australia  | Carnarvon/Dampier       | Goodwyn            | 8; PT 1         | 9367    | Late Triassic         | Mungaroo Fm                             | -19.644516 | 115.910794 | WOZ2  |
| AU0634   | Australia  | Carnarvon/Barrow        | Griffin            | 1; DST 2        | 8622    | Early Cretaceous      | Muderong Shl                            | -21.234302 | 114.621363 | WOZ2  |
| AU0635   | Australia  | Carnarvon/Barrow        | Griffin            | 2; RFT          | 8885    | Early Cretaceous      | Muderong Shl                            | -21.225758 | 114.624173 | WOZ2  |
| AU0636   | Australia  | Carnarvon/Dampier       | North Rankin       | 1; DST 1        | 10666   | Late Triassic         | Mungaroo Fm                             | -19.597349 | 116.126111 | WOZ2  |
| AU0637   | Australia  | Carnarvon/Dampier       | North Rankin       | 2; DST 3        | 9049    | Early Jurassic        |   | -19.563831 | 116.147305 | WOZ2  |
| AU0638   | Australia  | Carnarvon/Dampier       | North Rankin       | 3; RFT 5        | 10486   | Early Jurassic        | North Rankin Fm                         | -19.529153 | 116.173561 | WOZ2  |
| AU0639   | Australia  | Carnarvon/Exmouth       | Outtrim            | 1; RFT 3/24     | 4241    | Early Cretaceous      | Barrow Gp                               | -21.53     | 114.452114 | WOZ2  |
| AU0640   | Australia  | Carnarvon/Exmouth       | Outtrim            | 1; RFT 1        | 4265    | Early Cretaceous      | Barrow Gp                               | -21.53     | 114.452114 | WOZ2  |
| AU0641   | Australia  | Carnarvon/Dampier       | Wilcox             | 1; PT 1         | 12559   | Triassic              |   | -20.007717 | 115.484812 | WOZ2  |
| AU0642   | ua New Gui | Papuan/Thrust & Fold E  | Hedinia            | 1X; Test 6      | 7064    | Late Jurassic         | Imburu Fm                               | -6.461861  | 143.204528 | WOZ2  |
| AU0643   | ua New Gui | Papuan/Thrust & Fold E  | Hedinia            | 1X ST 1; Test 2 | 8950    | Early Cretaceous      | Toro Fm                                 | -6.461861  | 143.20453  | WOZ2  |
| AU0644   | ua New Gui | Papuan/Thrust & Fold E  | Hedinia            | 8; DST 1        | 9003    | Early Cretaceous      | Toro Fm                                 | -6.4       | 143        | WOZ2  |
| AU0645   | ua New Gui | Papuan/Thrust & Fold E  | South East Hedinia | 1; PT 3         | 6104    | Late Jurassic         | Imburu Fm                               | -6.584947  | 143.387233 | WOZ2  |
| AU0646   | ua New Gui | Papuan/Thrust & Fold E  | Iagifu             | 2X; DST 1       | 8038    | Early Cretaceous      | Toro Fm                                 | -6.434721  | 143.211666 | WOZ2  |
| AU0647   | ua New Gui | Papuan/Thrust & Fold E  | Iagifu             | 3X; DST 4       | 10060   | Early Cretaceous      | Toro Fm                                 | -6.4       | 143.21     | WOZ2  |
| AU0648   | ua New Gui | Papuan/Thrust & Fold E  | Puri               | 1; DST 16       | 7460    | Middle Miocene        | Puri Lst                                | -7.106667  | 144.99889  | WOZ2  |
| AU0649   | ua New Gui | Papuan/Thrust & Fold E  | Puri               | 1; DST 17       | 7580    | Middle Miocene        | Puri Lst                                | -7.106667  | 144.99889  | WOZ2  |
| AU0650   | ua New Gui | Papuan/Thrust & Fold E  | Mananda            | 3X; DST 3       | 8115    | Oligocene-Miocene     | Darai Lst                               | -6.191625  | 142.879372 | WOZ2  |
| AU0651   | Australia  | Carnarvon/Dampier       | Pueblo             | 1; RFT 3        | 9703    | Late Triassic         |   | -19.766039 | 115.863357 | WOZ2  |
| AU0652   | Australia  | Carnarvon/Exmouth       | Blencathra         | 1; RFT 1        | 4019    | Early Cretaceous      |   | -21.570928 | 114.429314 | WOZ2  |
| AU0653   | Australia  | Carnarvon/Exmouth       | Macedon            | 3; DST 1        | 3235    | Early Cretaceous      | Barrow Gp                               | -21.566969 | 114.174017 | WOZ2  |
| AU0654   | Australia  | Carnarvon/Barrow        | Mardie             | 1A              | 230     | Early Cretaceous      | Birdrong Sst                            | -21.353854 | 115.696427 | WOZ2  |
| AU0655   | Australia  | Carnarvon/Exmouth       | Novara             | 1; DST 1        | 4170    | Early Cretaceous      | Barrow Gp                               | -21.356073 | 114.076211 | WOZ2  |
| AU0656   | Australia  | Perth                   | Gingin             | 2; DST 3A       | 13962   | Early Jurassic        | Cockleshell Gully Fm                    | -31.170591 | 115.844285 | WOZ2  |
| AU0657   | Australia  | Perth                   | Mondarra           | 5               |         |                       |   | -29.35     | 115.1      | WOZ2  |
| AU0658   | Australia  | Carnarvon/Barrow        | Bennet             | 1               | 5341    |                       |   | -21.229744 | 115.326169 | WOZ2  |
| AU0659   | Australia  | Perth/Dandaragan Trou   | Boonine            | 1; DST 5        | 12292   | Early Jurassic        | Cockleshell Gully Fm (Cattamarra Coal I | -31.176655 | 115.819001 | WOZ2  |
| AU0660   | Australia  | Carnarvon/Peedamullia   | Tubridgi           | 2; PT           | 1696    | Early Cretaceous      | Birdrong Sst                            | -21.780805 | 114.846987 | WOZ2  |
| AU0661   | Australia  | Perth/Dandaragan Trou   | East Lake Logue    | 1; DST 1        | 7165    | Early Permian         | Carynginia Fm                           | -29.832343 | 115.154403 | WOZ2  |
| AU0662   | Australia  | Carnarvon/Barrow        | Perentie           | 1               |         |                       |   | -20.883992 | 115.339471 | WOZ2  |
| AU0663   | Australia  | Carnarvon/Dampier       | Sage               | 1; Run 4 SFT 2  | 6546    | Early Cretaceous      | P. burgen sst                           | -19.905123 | 116.414555 | WOZ2  |
| AU0664   | Australia  | Carnarvon/Dampier       | Sage               | 1; Run 5 SFT 3  | 7228    | Late Jurassic         | Angel Fm                                | -19.905123 | 116.414555 | WOZ2  |
| AU0665   | ua New Gui | Papuan/Thrust & Fold E  | Moran              | 1X ST 4; DST 1  |         | Late Jurassic         | Imburu Fm (Diguma Mbr)                  | -6.257     | 143.137    | WOZ2  |
| AU0666   | ua New Gui | Papuan/Thrust & Fold E  | Moran              | 4X; Stock Tank  |         | Late Jurassic         | Imburu Fm (Diguma Mbr)                  | -6.257     | 143.137    | WOZ2  |
| AU0667   | ua New Gui | Papuan/Thrust & Fold E  | Juha               | 1; DST 5        |         | Early Cretaceous      | Toro Fm                                 | -5.904     | 142.435    | WOZ2  |
| AU0668   | ua New Gui | Papuan/Thrust & Fold E  | Hides              | 1               |         | Early Cretaceous      | Toro Fm                                 | -5.931056  | 142.713889 | WOZ2  |
| AU0669   | Australia  | Carnarvon/Barrow        | Scindian           | 1A              |         | Early Cretaceous      | Barrow Gp-Mardie Greensand              | -21.191497 | 114.697507 | WOZ2  |
| AU0670   | Australia  | Browse/Yampi Shelf      | Sparkle            | 1; FMT          | 2139    | Early Cretaceous      | Upper Heywood Fm                        | -13.736648 | 124.561174 | WOZ2  |
| AU0671   | Australia  | Browse/Yampi Shelf      | Sparkle            | 1; FMT          | 2139    | Early Cretaceous      | Upper Heywood Fm                        | -13.736648 | 124.561174 | WOZ2  |
| AU0672   | Australia  | Browse/Yampi Shelf      | Focus              | 1; FMT Run 2    | 2529    |                       |   | -13.633493 | 124.594862 | WOZ2  |
| AU0673   | Australia  | Carnarvon/Exmouth       | Vincent            | 1; DST 1        | 4350    | Early Cretaceous      | Lower Barrow Gp                         | -21.421745 | 114.047375 | WOZ2  |
| AU0674   | Australia  | Carnarvon/Dampier       | Keast              | 1; DST 1        | 9738    | Late Triassic         | Brigadier Fm                            | -19.748318 | 115.810353 | WOZ2  |

TABLE 1 (Cont'd)

## Samples Analyzed for WOZ 1 and WOZ 2 Studies

| SampleID | Country          | Basin                     | Field             | Well              | U Depth | Reservoir Age        | Reservoir Formation                     | Lat         | Long        | Study |
|----------|------------------|---------------------------|-------------------|-------------------|---------|----------------------|---|-------------|-------------|-------|
| AU0675   | Australia        | Browse/Yampi Shelf        | Cornea South      | 2 ST 1; FMT TESTZ | 2649    | Early Cretaceous     | Upper Heywood Fm                        | -13.734823  | 124.463518  | WOZ2  |
| AU0676   | Australia        | Carnarvon/Dampier         | Mutineer          | 1B; MDT Run 1/1   | 10238   | Late Jurassic        | Angel Fm                                | -19.248628  | 116.637313  | WOZ2  |
| AU0677   | Australia        | Carnarvon/Dampier         | Hermes (Woodside) | 1; DST 1          | 10059   | Late Jurassic        | Upper Tithonian sst                     | -19.440267  | 116.484398  | WOZ2  |
| AU0678   | Australia        | Carnarvon/Dampier         | Lambert           | 3; RFT Sample 4   | 11467   | Late Jurassic        | Angel Fm                                | -19.449601  | 116.487874  | WOZ2  |
| AU0679   | Australia        | Carnarvon/Dampier         | North Rankin      | A22; DST 1        | 16063   | Middle Jurassic      |   | -19.585721  | 116.136773  | WOZ2  |
| AU0680   | Australia        | Carnarvon/Dampier         | Saffron           | 1; MDT 1/20       | 6903    | Late Jurassic        | Angel Fm                                | -19.943875  | 116.362081  | WOZ2  |
| AU0681   | Australia        | Carnarvon/Dampier         | Sculptor          | 1                 | 10581   | Late Triassic        | Mungaroo Fm                             | -19.777569  | 115.699374  | WOZ2  |
| AU0682   | Australia        | Canning                   | Wattle            | 1 ST 1; DST 1     | 8297    | Late Devonian        | Nullara Lst                             | -17.470506  | 124.226414  | WOZ2  |
| AU0683   | Australia        | Bonaparte/Sahul Syncline  | Rambler           | 1; RFT-CH 2       | 9903    | Early Cretaceous     | Flamingo Gp                             | -11.521713  | 126.372869  | WOZ2  |
| AU0684   | Australia        | Bonaparte/Sahul Syncline  | Rambler           | 1; RFT-CH 1       | 10112   | Early Cretaceous     | Flamingo Gp                             | -11.521713  | 126.372869  | WOZ2  |
| AU0685   | Australia        | Bonaparte/Sahul Syncline  | Rambler           | 1                 | 10318   | Early Cretaceous     | Flamingo Gp                             | -11.521713  | 126.372869  | WOZ2  |
| AU0686   | Australia        | Browse/Yampi Shelf        | Focus             | 1; FMT Run 1      | 2356    |                      |   | -13.633493  | 124.594862  | WOZ2  |
| AU0687   | Australia        | Bonaparte/Nancarrow Bluff |                   | 1; MDT            | 11115   | Middle-Late Jurassic | Elang Fm                                | -10.829291  | 126.203698  | WOZ2  |
| AU0688   | Australia        | Bonaparte/Laminaria Hill  | Jahal ST 1        | 1 ST 1; DST 1     | 10827   | Middle-Late Jurassic | Elang Fm                                | -10.570151  | 126.112704  | WOZ2  |
| AU0689   | Australia        | Carnarvon/Dampier         | Saffron           | 1; MDT            |         | Barremian            |   | -19.943875  | 116.362081  | WOZ2  |
| AU0690   | Australia        | Carnarvon/Dampier         | Saffron           | 1; MDT            |         | Tithonian            |   | -19.943875  | 116.362081  | WOZ2  |
| AU0691   | Australia        | Carnarvon/Exmouth         | West Muiron       | 5; DST 1          | 3427    | Early Cretaceous     | Barrow Gp                               | -21.548019  | 114.148281  | WOZ2  |
| AU0692   | Australia        | Carnarvon/Exmouth         | Vincent           | 1; DST 1          |         | Early Cretaceous     | Barrow Gp                               | -21.421745  | 114.047375  | WOZ2  |
| AU0693   | Australia        | Carnarvon/Dampier         | Egret             | 2; MDT            | 10732   | Late Jurassic        | Angel Fm                                | -19.473769  | 116.370334  | WOZ2  |
| AU0694   | Australia        | Carnarvon/Dampier         | Lauchie           | 1; DST 1          | 7248    | Early Cretaceous     | Lower Barrow Gp equiv. (Upper Beta Lot) | -19.774176  | 116.524413  | WOZ2  |
| AU0695   | Australia        | Carnarvon/Barrow          | Wonnich           | 1; DST 1          | 7644    |                      |   | -20.499591  | 115.429058  | WOZ2  |
| AU0696   | Papua New Guinea | Papuan/Thrust & Fold Belt | Agogo             | 4X                | 4350    | Early Cretaceous     | Toro Fm                                 | -6.33       | 143.1       | WOZ2  |
| AU0697   | Australia        | Carnarvon/Barrow          | Scindian          | 3; PT             | 8903    | Early Cretaceous     | Zeepaard Fm                             | -21.191705  | 114.697917  | WOZ2  |
| AU0698   | Australia        | Carnarvon/Dampier         | Athena            | 1; DST 1          | 10285   | Middle Jurassic      | Legendre Fm                             | -19.4952847 | 116.1460767 | WOZ2  |
| AU0699   | Australia        | Browse/Yampi Shelf        | Cornea South      | 2                 | 2644    | Early Cretaceous     | Upper Heywood Fm                        | -13.7348233 | 124.4635181 | WOZ2  |
| AU0700   | Australia        | Carnarvon/Exmouth         | Parrot Hill       | 1; DST 1          | 3737    | Early Cretaceous     | Birdrong Sst                            | -22.4876803 | 114.0474078 | WOZ2  |
| AU0701   | Australia        | Carnarvon/Dampier         | Cossack           | 4; DST 1          | 9462    | Early Cretaceous     | Barrow Gp Equiv                         | -19.5563611 | 116.4932911 | WOZ2  |
| AU0702   | Australia        | Carnarvon/Dampier         | Dionysus          | 1; DST 1          | 10581   | Late Triassic        | Mungaroo Fm                             | -20.083442  | 114.883444  | WOZ2  |
| AU0703   | Australia        | Carnarvon/Dampier         | Gorgon            | 3; DST 2          | 12352   | Late Triassic        | Mungaroo Fm                             | -20.5219711 | 114.8010483 | WOZ2  |
| AU0704   | Australia        | Carnarvon/Barrow          | John Brookes      | 1; DST 2          | 9252    | Early Cretaceous     | Top Barrow Gp                           | -20.4349458 | 115.1101906 | WOZ2  |
| AU0705   | Australia        | Carnarvon/Dampier         | North Gorgon      | 4; DST 1          | 12733   | Late Triassic        | Mungaroo Fm                             | -20.3413503 | 114.8413272 | WOZ2  |
| AU0706   | Australia        | Carnarvon/Dampier         | Pitcairn          | 1; DST 1A         |         | Late Jurassic        | Angel Fm                                | -19.2719006 | 116.6309275 | WOZ2  |
| AU0707   | Australia        | Carnarvon/Dampier         | Sculptor          | 1; DST 1A         |         |                      |   | -19.7775694 | 115.6993739 | WOZ2  |
| AU0708   | Papua New Guinea | Papuan/Foreland           | Uramu             | 1A; DST 1A        | 5965    | Early Miocene        | Puri Lst                                | -7.806333   | 144.694277  | WOZ2  |
| AU0709   | Australia        | Carnarvon/Dampier         | Wanaea            | 6; PT             | 10563   | Late Jurassic        | Angel Fm                                | -19.57963   | 116.44827   | WOZ2  |
| AU0710   | Australia        | Carnarvon/Barrow          | Woollybutt        | 1; DST 1          | 8247    | Early Cretaceous     | Barrow Gp                               | -20.9030633 | 114.9101058 | WOZ2  |
| AU0711   | Australia        | Carnarvon/Barrow          | Woollybutt        | 3A; RFT           | 8301    | Early Cretaceous     | Top Barrow Gp                           | -20.965995  | 114.874789  | WOZ2  |
| ID0118   | Indonesia        | Bintuni                   | Wasian            | 24/A              | 2776    | Miocene              | Kais                                    | -1.859806   | 133.317861  | WOZ1  |
| ID0119   | Indonesia        | Bintuni                   | Mogoi             | 41                | 1243    | Miocene              | Kais                                    | -1.85       | 133.225     | WOZ1  |
| ID0120   | Indonesia        | Bintuni                   | Jagiro            | 4                 | 751     | Miocene/Pliocene     | Klasafet                                | -1.794889   | 133.158694  | WOZ1  |
| ID0122   | Indonesia        | Timor                     | Paulaca           | Seep              |         | Triassic             | Aitutu                                  | -8.5        | 127         | WOZ1  |
| ID0123   | Indonesia        | Timor                     | Aliambata         | Seep              |         | Cretaceous/Paleocene | Borolalo                                | -8.5        | 127         | WOZ1  |
| ID0139   | Indonesia        | Seram                     | Nief East         | 1                 | 5715    | Upper Jurassic       | Manusela                                | -3.4        | 130.7       | WOZ1  |
| ID0157   | Indonesia        | Bintuni                   | Wiriagar          | 3                 | 1532    | Upper Miocene        | Kais                                    | -2.219722   | 132.854444  | WOZ1  |