

Source Rock Potential and Algal - Matter Abundance, Cooper Basin, South Australia

REPORT BOOK 2000/00032

by

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PRIMARY INDUSTRIES AND RESOURCES SOUTH AUSTRALIA

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SOURCE ROCK POTENTIAL AND ALGAL- MATTER ABUNDANCE, COOPER BASIN, SOUTH AUSTRALIA

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SUMMARY

The Late Palaeozoic Cooper Basin is a major source of hydrocarbons and is especially important in providing the natural gas needs of much of southeastern Australia. The basin is now a mature petroleum province with more than 1200 wells drilled and over 90 000 km of seismic data gathered in the South Australian part of the basin. In spite of its importance the origin of its hydrocarbons is not well understood. The basin is unusual in that the basin fill is entirely non-marine and all indications are that the hydrocarbons are derived from interbedded coals within the major non-marine reservoir intervals. There is, however, disagreement as to whether the coals provide suitable and/or adequate source materials for oil generation in particular. Recent studies have suggested that alginite may play a significant role in oil generation in the basin.

In this study an attempt has been made to evaluate alginite as a potential source material. To that end data relevant to the distribution of algal materials have been extracted from more than 1000 well completion reports. The data show that algae are not uniformly distributed across the basin but occur in mud-free environments marginal to major coal thicknesses. The observations are consistent with what is known of modern algal equivalents in that they require high light intensity and a high nutrient environments in shallow ponds or lagoons. This suggests that oil sources could be restricted to specific basinal settings lying between coal and mudstone depocentres. In the Cooper Basin it is notable that gas shows are widespread but oil shows are areally restricted. In particular, oil shows appear on the Murteree Ridge adjacent to the main concentrations of algal material at the

southeastern end of the Wooloo Trough suggesting a local environmentally specific source. These site specific environments are determined to a large extent by basin dynamics.

INTRODUCTION

During the Late Carboniferous and Early Permian a number of intracratonic basins were initiated on the Gondwanan part of the Pangean Supercontinent (Fig. 1). The Cooper Basin, one of the largest of Australia's Gondwanan intracratonic basins, extends from northeastern South Australia into southwestern Queensland covering approximately 130 000 km². The South Australia part of the basin is divided into three major depocentres, the Patchawarra, Nappamerri and Tenappera Troughs (Fig. 2). The troughs are separated by the two structural highs, the elongate complex Gidgealpa-Merrimelia-Innaminka Ridge and the smaller more equant Murteree Ridge (Gravestock and Jensen-Smith, 1998; Hill and Gravestock, 1995). The ridges consist, in the main, of fault-ruptured asymmetric anticlines that are often eroded and devoid of Early Permian sediments. Like most intracratonic settings, the Cooper Basin is polyphase and contains a thick Permian (1600 m) to Triassic succession of fluvial, lacustrine and, at the base, glacial rocks (Fig. 3). The succession overlies, in part, the Early Palaeozoic rocks of the Warburton Basin and is in turn overlain by the Jurassic to Cretaceous rocks of the Eromanga Basin.

The Cooper Basin is the source of a significant proportion of Australia's onshore oil and gas and in particular supplies a large area of southeastern Australia with natural gas. The basin is the largest

onshore petroleum province in Australia (Hill and Gravestock, 1995). The Gidgealpa Group, which forms the earliest depositional interval of the basin fill, consists of eight formations (Fig. 3) including the main petroleum reservoir intervals. The group reaches a maximum thickness in the Nappamerri Trough where it exceeds 1200 m. The hydrocarbons are mostly reservoirised in fluvial channel sandstone and point-bar deposits within the Permian Patchawarra and Toolachee Formations in association with basin highs. Lesser, but significant, reservoirs occur in shoreline sandstones associated with the Patchawarra, Epsilon and Daralingie Formations.

The Cooper Basin is unusual in that, unlike most intracratonic settings, the basin fill is entirely non-marine in origin. It has generally been accepted that the hydrocarbons reservoirised in the Cooper Basin are largely relatively locally derived from interbedded organic matter. The Patchawarra and Toolachee Formations contain hydrocarbons that are isotopically distinct, with the Patchawarra Formation's oils being isotopically lighter (Boreham and Summons, 1999), supporting a local origin for the hydrocarbons and suggesting that two independent petroleum systems operate within the basin. This observation alone provides strong support for hydrocarbons being largely locally generated from within the formations.

Most of the associated organic matter contained within the major reservoir intervals occurs as interbedded coals all of which appear to be inertinite rich and thus, at first sight, poor source rocks. This raises questions about the origins of hydrocarbons reservoirised in the Cooper Basin succession as considerable controversy still surrounds the idea of coals as a source for liquid hydrocarbons. However, some research has indicated that coals may be moderate to poor quality oil sources (eg Durand and Paratte, 1983; Boreham et al., 1988). Smyth (1984) argued that inertinite, particularly when considered in light of high volumes of dispersed organic matter (DOM) would provide an adequate source for the basin's liquid hydrocarbons. In contrast, Saxby and Shibaoka (1986) suggest that inertinite may have only a minor role as a potential source.

Recent studies (Taylor et al., 1988) based on a single well penetrating the Patchawarra Formation suggest that alginite is associated with the inertinite component of the coals and could provide a more than adequate source for all of the hydrocarbons generated within the basin. Similarly, they point

out that alginite is associated with dispersed organic matter (DOM) and should be regarded as a highly favourable source. Powell et al. (1989) recognised telalginite sources as being relatively abundant in the sub-mature sediments of the overlying Eromanga Basin suggesting that telalginites may also be an important source in the Cooper Basin.

The present study aims to refine and extend the earlier work of Taylor et al. (1988) on potential alginite sources by analyzing data reported from all wells within the South Australian part of the basin. The research focuses on the stratigraphic interval within the Gidgealpa Group from the base Patchawarra Formation to top Toolachee Formation, the main reservoir and source rock interval.

METHODOLOGY

The Cooper Basin is today a mature petroleum province. More than 90 000 line kilometres of seismic data have been recorded and more than 1200 wells penetrate the succession in the South Australian part of the basin (Fig. 4). At least 119 gas and 55 oil fields have been discovered to date. The present study is based entirely upon well completion reports developed during the drilling program and submitted to PIRSA by petroleum companies operating in the basin. The objective of the study is to retrieve as much information as possible from these reports to aid in evaluating the significance of alginite in petroleum generation. Much of the data available to us through these reports and related documents is qualitative. To overcome these problems variables are here ranked on a scale from 0 to 5 with the upper limit indicating the component as abundant. Variables extracted from the reports are listed in Table 1. All data gathered have been included in the PEPS data base available from PIRSA and also appear with this document as Table 2 (Excel spreadsheet).

Initially, using the PIRSA-PEPS database, the well completion reports were sorted on the basis of the presence or absence of palynology reports in an attempt to simplify the analysis. Since palynology is frequently based upon sidewall cores these same reports generally also contained vitrinite reflectance data. Palynological kerogen analysis techniques have been applied to Cooper Basin wells since the early 1980s (Wood and Reed, 1993) potentially providing large volumes of information. On this basis more than 1000 well completion

reports were examined and basic data extracted and entered into spreadsheets. Of those well completion reports 553 contain relevant data whilst 248 contain information directly relating to the presence or absence of alginite.

ANALYSIS

The data provided by this analysis have some limitations. First, wells were mostly drilled on sites with perceived petroleum potential (Fig. 4) where source rocks are more likely to be within the oil window. Thus, any analysis is potentially skewed away from immature areas likely to preserve algal matter and away from over mature areas in which evidence of algal matter may have been completely destroyed (Fig. 5). Second, the absence of any references to algal matter does not necessarily indicate that none was present. Most algal species do not have chronostratigraphic significance (Batten, 1996) and as a consequence they are simply not reported in many palynological reports.

As can be seen from Figure 4, petroleum wells are not uniformly distributed throughout the basin. There is a notable absence of wells in the deeper areas of the basin, especially the Nappamerri Trough, while there are concentrations of wells along major ridges, such as the Gidgealpa and Murteree Ridges. It is also notable that the distribution of oil and gas is not uniform across the basin. Oil producing wells are notably concentrated on the Murteree Ridge, for example, while gas wells are more generally dispersed.

It should be stressed that coal and mudstone isoliths used as comparative background maps throughout the report are based on electrofacies derived from logs. Whilst electrofacies themselves have interpretational limitations the statistics produced from them are "bulk" statistics. That is, coal thicknesses are the sum of the thickness of individual coal seams identified from electrofacies within a particular formation. The derived statistic thus does not give a clear indication of deposition environment at a particular location. For example, an area of increased coal thickness could be the product of a large number of thin coal seams deposited in a floodplain setting or a small number of thick coal seams deposited in a raised peat bog environment. As discussed below, the significance of these two settings in terms of algal accumulation could be very different.

When the distribution of all algal material is plotted against maturity it is clear that any algal matter that may have been present has been destroyed in the deeper gas-prone areas where R_v max exceeds 1.7% (Fig. 5). Most surviving algal material occurs in sediments that lie within the oil and wet gas window.

Very few well completion reports document the abundance of alginite although some make passing reference to its presence. In lieu of data on alginite we have documented the relative abundance of the five most common algal genera to provide a basis for understanding facies controls on alginite formation. The genera documented are:

1. *Maculatasporites*
2. *Peltacystia*
3. *Quadrisporites*
4. *Reinschia*
5. *Tetrasporina*

A sixth genus, *Botryococcus*, is a pseudonym of *Reinschia*. However, references to the genus were documented separately as they are usually in the form of general assignments to "*Botryococcus*-type alginite" present in side wall cores used in vitrinite reflectance studies, rather than being formally defined as part of the palynology.

Evidence of algal matter is relatively common. Algal material was identified most commonly in the coal-rich reservoir intervals of the Patchawarra Formation (35.8% of wells), the Toolachee Formation (21.7% of wells) and Epsilon Formation (14.6% of wells). Algal matter is also present to some extent in the associated finer grained intervals; Murteree Shale (10.2% of wells), Roseneath Shale (13.0%) and Daralingie Formation (9.8%).

MAJOR COAL-RICH RESERVOIR INTERVALS

There are three main coal-rich reservoir intervals within the Gidgealpa Group; the Patchawarra, Epsilon and Toolachee Formations. All contain low-sulfur coals and are believed to have formed in a non-marine setting (Hunt and Smyth, 1986). Thick relatively mature sands occur interbedded with coals in all three units making them important reservoir intervals.

Patchawarra Formation

The Early Permian (Asselian to Artinskian) Patchawarra Formation is the thickest and most widespread of the coal-rich intervals. The formation is predominantly quartzose sandstone but includes siltstone, shale and significantly intervals of coal. The coal seams may reach as much as 22 m in thickness but overall average closer to 2 m in thickness. The coals generally occur at the top of upward fining packages of sediment that begin with sandstone and pass upward to carbonaceous siltstone and ultimately coal. The Patchawarra Trough was a major depocentre for coals during Patchawarra Formation time. In contrast the Nappamerri Trough is dominated by overbank siltstones and channels sandstones rather than coal (Alexander et al., 1998). Major coal accumulations also occur in the Tenappera Trough and thicken into the Weena Trough to the southwest (Fig. 7). The Patchawarra Formation was deposited largely in a fluvial system dominated by high sinuosity streams. Coal intervals may have been deposited from raised swamps marginal to the fluvial systems which may have controlled fluvial architecture (Alexander et al., 1998, Stuart, 1976; Battersby, 1976; Thornton, 1979; Stanmore and Johnson, 1988).

The wells analysed in this study mainly targeted the formation at depths of 1750 to 3250 m where vitrinite reflectance values lay close to the oil and wet gas window (R_v max $\sim 1.0\%$). The thickness of the interval targeted varied considerably up to a maximum of 400 m. The broad scatter of thickness values (Fig. 6) suggests that there was some residual pre-basinal topography at the time of deposition of the formation or some loss of section by erosion.

Peltacystia and *Maculatasporites* are the most abundant and widespread algal genera in the Patchawarra Formation (Fig. 7). It is clear, however, that all six genera (including *Botryococcus*) have similar distributions and there is little value in evaluating each genus for each formation. When viewed collectively (Fig. 8) algal material can be seen to occur in association with areas of major coal development. However, algae are most common marginal to the major thickenings of coal rather than central to coal development suggesting that environmental condition surrounding the coal swamps are more suited to algal growth. This is further supported when algal distribution is plotted over total mud thickness. Again most algal occurrences are

peripheral to the greatest thickness of mud (Fig. 9). The distribution of Patchawarra mudstone and coals is empirically derived from electric logs. PIRSA is currently reviewing petrophysical cutoffs for major facies. It is conceivable that there may be even greater correlation between algal occurrences and major mudstone depocentres once the electrofacies of the Permian formations is reviewed. Live oil shows parallel the distribution of algae quite closely in the Patchawarra Formation (Fig. 10) suggesting a direct connection.

Epsilon Formation

The Early Permian (Artinskian to Kungurian) Epsilon Formation consists largely of thinly bedded quartzose sandstone with lesser amounts of carbonaceous shale and siltstone and coal seams. The coal seams are generally thin but may reach 20 m in thickness locally. The formation was deposited as three distinct lithofacies associations. The lower part of the formation consists of sandy upward-coarsening intervals capped by shale and coal. The middle part of the formation is dominated by coal, whilst the upper part is predominantly sandstone deposited in thick upward-coarsening units. The Epsilon Formation was deposited in a complex environment involving deltas prograding into a lacustrine setting (Fairburn, 1992). In drill core the Epsilon Formation averages 53 m in thickness. A broad scatter of thickness values between 100 and 200 m suggest that formation boundaries are not well defined due to erosion over highs and that some picks may need to be reviewed (Fig. 11).

Drill core samples have generally been taken at depths of ~ 2300 m with R_v max values in the wet gas window ($\sim 1.0\%$). Algal matter abundances are not as great in the Epsilon Formations as in the main reservoir intervals but, nevertheless, extends over much the same general area. Algae are most abundant near the basin margin to the southwest of the main depocentre in the Nappamerri Trough (Fig. 8). Similar concentrations are apparent in the Patchawarra and Toolachee Formations. Again, as in the Patchawarra Formation, algae are most abundant in area away from fines (Fig. 9). Live oil shows occur in much the same areas as the increased algal abundance (Fig. 10).

Toolachee Formation

The Toolachee Formation, which was deposited during an interval of renewed basin subsidence in the Late Permian (Kazanian), disconformably

overlies the Daralingie Formation and locally unconformably overlies older intervals along the major basin ridges (Hill and Gravestock, 1995). The Toolachee Formation was deposited as part of a complex fluvial, lacustrine and deltaic systems associated with raised coal swamps much as seen in the Patchawarra Formation (Mackie et al., 1995; Stuart et al. 1988; Gravestock and Morton, 1984, Alexander et al., 1998). The formation consists of coarse-grained quartzose sandstones, siltstone, carbonaceous shale and coal seams. Locally the formation is conglomeratic and basal conglomerates occur adjacent to basin highs. The formation is widespread across the basin except where it has been eroded locally from basin highs. It is dominated by two major facies associations. The lower association consists of thick upward fining packages culminating in coal seams with less prominent upward fining packages. The upper association is dominated by mudstones with coal seams consisting of thin upward coarsening intervals. Locally, a third facies association of coarse upward fining channelized packages dominates. Coals seams average 4 m but reach 22 m in thickness. They are generally thicker than coal seams in the Patchawarra Formation but fewer in number (Alexander et al., 1998). Major Toolachee coal accumulations occur in the Patchawarra Trough. Toolachee coals are also present in the Tenappera Trough but unlike the Patchawarra coals do not extend into the Weena Trough.

The Toolachee Formation is, along with the Patchawarra Formation, the main producing interval in the basin. The formation is however considerably thinner than the Patchawarra, typically being ~60 m thick in the targeted areas but locally reaching 170 m in thickness (Fig. 12). In the target areas the formation mostly lies at depths of close to 220 m and, as in the Patchawarra Formation, the targeted areas lie within the wet gas window with Rv max value centered around 1.0%.

Algal matter is widely disbursed within this interval and covers an area comparable with that observed in the Patchawarra Formation, although not to the same abundance levels (Fig. 8). Again, as in the Patchawarra Formation, the algal occurrences tend to be associated with thickened area of coal but are generally marginal to the main depocentres. When overlain on the distribution of fines the algae tend to occur marginal to the main depositional mudstone depocentres (Fig. 9). This suggests that the depositional environment required for algal accumulations is finely tuned by facies as is the

distribution of live oil shows (Fig. 10). The controlling variables determining algal growth are thus restricting deposition to a narrow zone lying between the main coal depocentres and the main mudstone depocentres.

FINER-GRAINED INTERVALS

Three fine-grained formations separate the major coal-rich reservoir intervals. The Murteree Shale lies between the Patchawarra and Epsilon Formations, while the Roseneath Shale and Daralingie Formations lie between the Epsilon and the Toolachee Formation. The Murteree and Roseneath Shales are both predominantly fine-grained lacustrine shales, whilst the Daralingie, which is dominated by fines, is deltaic and contains some sands and coals.

Murteree Shale

The Murteree Shale is a widespread fine-grained unit with a relatively uniform thickness of approximately 50 m over much of its area but reaching 80 m in the Nappamerri Trough. Where intersected in wells the unit averages 44 m in thickness. The erratic scatter in formation thickness between 100 and 200 m (Fig. 13) suggest that either areas have been removed by erosion or that stratigraphic picks are not always accurate. The formation, which is Artinskian in age, consists largely of dark siltstones and fine-grained sandstones with a tendency to become sandier to the south. The predominant siltstones are generally parallel laminated with occasional evidence of turbidite and slump activity. Both a restricted marine and an open deep lacustrine environment have been suggested as depositional settings (Stuart, 1976; Thornton, 1979; Gravestock et al., 1998). The lack of marine fossils, especially marine microplankton, suggests a lacustrine setting to be the most likely (Gravestock et al., 1995).

Where intersected by petroleum wells the formation typically occurs at depths of ~2300 m and is generally within the wet gas window with Rv max values close to 1.0%. Even under these conditions algal material is widespread and comparable to the distribution of the main reservoir units (Fig. 8). However, algal materials are not as abundant as in the main reservoir intervals. In light of experience in the main reservoir intervals this might be expected as the deposition environment of the Murteree Shale was dominated by fines. The distribution of live oil shows is even more restricted with only four occurrences present along

the southwestern margin of the Nappamerri Trough to the north of the Murteree Ridge (Fig. 10).

Roseneath Shale

The Roseneath Shale is not as widespread as the Murteree Formation. It extends across the central Cooper Basin but has been removed from the major tectonic ridges by erosion. The formation, which is Early Permian (Kungurian) in age, consists predominantly of mudstones and siltstone with minor intercalations of fine sandstone. The unit reaches 100 m in thickness and tends to thicken into the major troughs. Where intersected in wells the formation is considerably thinner averaging 37 m (Fig. 14). A lacustrine environment has been proposed for the formation which is, in general, similar to the younger Murteree Shale (Stuart, 1976; Thornton, 1979).

In comparison to the main reservoir intervals, algal matter is relatively rare in the formation, as expected in light of the abundance of fines, and generally confined to the southern part of the basin. The samples assessed in the well completion reports are generally within the wet gas window with R_v max values averaging around 1.0% at drilled depths averaging 2100 m (Fig. 14). Live oil shows are quite rare and confined to the Tenappera Trough, close to the basin's southern margin (Fig. 10).

Daralingie Formation

The Daralingie Formation is relatively restricted in area only occurring to the south of the Gidgealpa-Merrimelia-Innaminka Ridge. The formation has also been removed locally by erosion from some ridges. This early Permian (Kungurian to Ufimian) formation consists largely of carbonaceous mudstones and siltstones with some interbedded fine-grained sandstones and minor coal seams and coaly intervals. The formation reaches a maximum of 100 m in thickness in the main troughs but is generally much thinner over most of its depositional area. Where encountered in wells it is generally closer to 30 m thick (Fig. 15). The lower part of the formation is bioturbated and ripples and hummocky cross stratification are abundant sedimentary structures. Stacked upward-coarsening depositional packages suggest that the Daralingie Formation was deposited as part of a prograding delta system similar to the Epsilon Formation (Stuart, 1976; Thornton, 1979).

The Daralingie Formation is generally encountered in wells at depths of ~2100 m and with R_v max values within the wet gas window (~1.0%) (Fig. 15). Because of its deltaic depositional setting and, unlike the other main fine-grained intervals, the formation contains some coals. Consequently, some algal materials have been recognised in samples from drill core but they are much less abundant than in the main reservoir intervals. As elsewhere the main algal occurrences tend to be in the southern extremes of the basin (Fig. 8) in broad association with live oil shows (Fig. 10).

DISCUSSION

There is considerable discussion in existing literature as to whether the Cooper Basin originated in a compressional (e.g. Sun, 1997; Apak et al., 1997), extensional (e.g. Stanmore, 1989) or more complex tectonic environments (Kuang, 1985). In spite of the analysis of a large seismic data base there is no evidence of major faults controlling the initiation of the basin. Most faults mapped within the basin are earlier features that have been reactivated and developed localised structures, the major basin ridges, that are important to reservoir development but have little to do with source rock deposition.

The Cooper Basin is polyphase and during its evolution both compressional and extensional events have played a role in defining its overall architecture (Fig. 16). However, the discussions of a compressional or extensional origin for the basin have obscured the fact that the basin is typical of many intracratonic basins and was initiated as a regional intracratonic sag (Kapel, 1966; Battersby, 1976) as a result of deep mantle processes. This and other Gondwanan coal basins were initiated as the Pangean Supercontinent climaxed following the merging of Gondwanaland into Pangea (Veever, 1988; 1989). Almost all of these basins are sag basins and are thus most likely the product of mantle instability, perhaps in the form of a superplume generated in response to mantle insulation by the supercontinent (cf. Anderson, 1982). Upwelling of the plume initially caused domal uplifting of the continental lithosphere, in turn leading to the output of flood basalt and ultimately thermal relaxation and widespread subsidence as plume activity declined (cf. Zhao et al., 1994; Lindsay, 1999). There is evidence of rapid uplift, high heat flow and mobilization of granites in the upper crust of the Cooper Basin

region for 10 million years prior to the initiation of sedimentation in Late Carboniferous (Gravestock, 1998). Uplift was accompanied by erosion and peneplanation of the domed area. Similar patterns of tectonic evolution occurred during the assembly of Rodinia which resulted in the formation of a major sag basin, the Centralian Superbasin, within the Early Palaeoproterozoic supercontinent, Rodinia (see Lindsay et al., 1987; Zhao et al., 1994; Walter et al., 1995; Lindsay, 1999).

The clastic components of the Patchawarra and Toolachee Formations are dominated by quartz sand without which they would be ineffective as reservoirs. The deposition of these formations and their associated units was controlled, in large part, by basin subsidence rates and the rate of sediment supply, such that depositional environments alternate between fluvial, lacustrine and cool, temperate, coal swamps. The abundant supply of clastic sediments came from erosional processes associated with regional uplift prior to basin formation. In part this was facilitated by glaciation (Hobday, 1987) probably triggered by the regional uplift. That is, the large volumes of sand involved in the early basin fill were largely locally derived during uplift and then simply redistributed as thermal recovery lead to basin subsidence (cf. Lindsay, 1998). Once subsidence began it was enhanced by sediment loading which, in turn, caused flexure of the basin margin developing a peripheral bulge and setting the stage for the development of raised coal swamps.

The relative abundance of the different algal genera vary considerably but, in general, have been found to occur most commonly in areas marginal to maximum coal development (Fig. 8). However, they are not entirely excluded from the areas of maximum coal development. Basinward, as mud content increases, algal abundances decline rapidly (Fig. 9). To some extent data are skewed as, predictably, algae are less abundant in more mature (gas prone) regions of the basin. Overall the data imply that algal accumulations are environmentally constrained and that algal-rich source rocks may occur in relatively localised, well defined facies associations that lie between the main coal and mudstone depocentres.

The more common alginite-forming algae are planktonic and are at their most productive in restricted lacustrine settings (Batten, 1996). Modern *Botryococcus*, for example, is widely dispersed climatically but tolerates seasonally cold climates. It lives in freshwater bogs, temporary

pools, ponds and lakes where it forms a thick surface layer (Batten and Grenfell, 1996). The algal colonies require high light penetration, relatively neutral Ph levels and high nutrient concentrations (Tappan, 1980). Under suitable conditions *Botryococcus*-type algae may form dense growths over the surface of lakes exhausting oxygen supplies. Thick, oily, decay-resistant algal materials may form accumulations 5 to 10 m thick on lake bottoms as a result.

Alexander et al., (1998) suggested that Cooper Basins coals may be the product of raised swamps developed along basin margins. This suggests that they were formed in association with the peripheral bulges (ie, basin margin flexure associated with sediment loading), the bulges having diverted fluvial systems away from the swamps into the main depocentre. Once established the raised coal swamps would have become independent of topography (Wheeler and Shaw, 1995) and would tend to hold fluvial systems to fixed channels preventing avulsion, result in the development of stacked channel sandstones (Alexander et al., 1988). Raised swamps develop with a convex upper surface with as much as 5 m of relief (Moore and Bellamy, 1976; Ingram, 1982; McCabe, 1984). The degree of doming of the upper surface depends upon the age (maturity) of the swamp among other variables. Older larger bogs form an extensive plateau with steep edges following the coalescence of smaller bogs (Wheeler and Shaw, 1995). Modern bogs occur in temperate boreal regions and depend upon relatively high rainfalls and low evaporation such that they are constantly waterlogged, although water moves freely through the bogs. Water flow through the bogs is lateral rather than vertical (Ingram, 1982) due to development of an impervious lower layer of compacted peat. Plant growth contributes to the formation of a bog structure that is self regulating thus maintaining the longevity of the bog. They have a low Ph and are low in nutrients resulting in low plant diversity (dominantly mosses). Although species diversity many of the plants especially mosses that do occur in the bogs have a global distribution (Wheeler and Shaw, 1995; Clymo, 1987). Permian coal floras similarly have a low diversity (Rigby, 1970). Overall the low-nutrient, high-Ph environment developed in raised bogs is unsuited to algal growth.

The data assembled in this report suggests that the most suitable environment for the accumulation of algae lay between the two extremes of the coal swamp and the fluvial systems draining water

around them, that is away from the clastic environments of the stream channels and peripheral to the raised coal swamps. Algal growth appears to be favoured by a restricted lacustrine environment rather than the acidic environment in the coal swamps where nutrient supply is limited. However, the clastic/fluvial environments, whilst richer in nutrients, were less suited due to the fines suspended in the water column that reduce light penetration. The accumulation of alginite thus probably occurred in an environment that was finely tuned by basin dynamics in between the main coal and mudstone depocentres. Perhaps the best indication of the importance of algal matter in relation to depositional setting is in the concentration of oil producing wells along the Murteree Ridge adjacent to the Wooloo Trough where algae are most abundant (compare Fig. 4 and Fig. 8).

CONCLUSIONS

The Cooper Basin is a polyphase basin that was initiated as a regional intracratonic sag as a result of deep mantle processes initiated as the Phanerozoic supercontinent climaxed following the merging of Gondwanaland into Pangea. Upwelling of a plume initially caused domal uplifting of the continental lithosphere, in turn leading to thermal relaxation and widespread subsidence as the plume decayed. Uplift was accompanied by erosion and peneplanation of the domed area producing large volumes of clastic material that were later redistributed during the thermal sag to form the main reservoir intervals.

There is now considerable evidence to indicate that hydrocarbons occurring in the main reservoir intervals of the Cooper Basin are locally sourced from associated coal seams and coal-rich sediments. Alginite preserved within the major reservoir intervals seems a likely major source. There is now a growing body of evidence to suggest that coal seam development occurred in high-latitude, cold-climate, raised peat bogs. Coal accumulation occurred marginal to the main depocentres of the Cooper Basin on basin-margin highs that developed due to crustal flexure resulting from sediment loading in the main depocentres. Once established the peat bogs were self regulating, constraining fluvial channels and preventing avulsion.

Evidence from the present study suggest that alginite formed in specific depositional settings that

occurred in response to coal formation. The raised bogs developed in an environment that had a low Ph and was low in nutrients - an environment unsuited to algal growth. Similarly, the muddy environments associated with the adjoining fluvial settings, whilst nutrient rich, are unsuited to algal growth. Alginite thus accumulated in settings marginal to raised peat bogs but away from clastic-dominated environments in ponds or restricted lacustrine settings where light levels and nutrient concentrations were high and turbidity low. Algal accumulations could thus be expected to occur between coal and mudstone depocentres. Future exploration strategies should thus focus on a detailed understanding of these depositional facies and an understanding of fairway/trap geometries in relation to suitable facies.

RECOMMENDATIONS

1. The current project should be revisited once the ongoing electrofacies project is complete. Algal distribution maps should be re-evaluated by comparing them with the refined isolith maps.
2. Detailed lithofacies analysis and geochemical studies should be carried out on core in parallel with electrofacies studies to establish the relationship between the two. The results presented here suggest that the Wooloo Trough would be a suitable location for a pilot study to evaluate source rocks and fairways to help explain oil accumulations in surrounding highs
3. A multivariate study is needed to help establish an understanding between the "bulk" facies information developed from isolith maps and the detailed information gained by examining lithofacies in individual cores. For example, are areas of increased coal thickness composed of many thin coals perhaps deposited in a flood plain setting or are they composed of a smaller number of thick coal seams deposited in a raised peat bog setting. Coals deposited in a floodplain setting are more likely to be associated with lacustrine facies and hence alginite accumulations.
4. The work could perhaps be extended to the Eromanga Basin succession where alginite has previously been identified as a potential source (see Powell et al., 1989).

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Table 1 Metadata for table 2 which includes all data extracted from well completion reports.

1. **Well Name** – Derived from PIRSA-PEPS data base.
2. and 3. **Location** – Latitude and longitude with decimal minutes derived from the PIRSA-PEPS database.
4. **Formation** – Standard formation names for the Cooper Basin Permian. The words "No Permian" in this column generally means that the well failed to penetrate Permian sediments.
- 5 and 6. **Formation depths to top and to base**, in metres.
7. **Vitrinite Reflectance** – This column indicates the maximum reflectance value for the formation interval examined for algal materials.
- 8–13. **Algal abundances** -These columns indicate the abundance of the six main algal genera present in the basin. The abundances are ranked 0 to 5 with a ranking of 0 for absence, 1 being rare and 5 being abundant. Blanks indicate a lack of any information. Absence of any algal genera should be treated with caution as it may indicate that none were present or that, since they have limited chronostratigraphic significance, they were simply not recorded. Genera documented include:
 8. *Botryococcus*
 9. *Maculatasporites*
 10. *Peltacystia*
 11. *Quadrisporites*
 12. *Reinschia*
 13. *Tetrasporina*
- Botryococcus* and *Reinschia* are synonymous, however, the two are separated in the database as in many reports algal material is simply identified as *Botryococcus*-type alginite or telalginite.
14. **Species Abundance** – The sum of 8 to 13 as an overall indicator of the abundance of algae.
15. **Alginite** – Where algal genera are not specifically identified the observed abundance of alginite has been ranked 0 to 5 as for variables 8 to 13. Blanks indicate an absence of any data.
16. **Live Oil** – The abundance of live oil has been ranked 0 to 5. Blanks indicate an absence of any data.
17. **Coal** – The overall thickness of coal within the formation has been estimated.
18. **Inertinite** – Where data are available inertinite is given as a percentage.
19. **Dispersed Organic Matter** - DOM has been ranked from 0 to 5 on the basis of abundance estimates given in vitrinite reflectance studies. The maximum is roughly 5% DOM.
20. **Source** – Where available the authors of palynological reports are given.
21. **Comments** – Unusual features of wells are documented in this column. In most cases the comments relate to gas shows as an adjunct to 16.

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Alisma 1	28 15 10.883	140 56 31.961	Toolachee Fm	2177.8	2332.9	1.1	0	0	0	0	0	0
Alisma 1	28 15 10.883	140 56 31.961	Daralingie Fm	2332.9	2364.6		0	0	0	0	0	0
Alisma 1	28 15 10.883	140 56 31.961	Roseneath Sh	2364.6	2448.8	1.1	0	0	0	0	0	0
Alisma 1	28 15 10.883	140 56 31.961	Epsilon Fm	2448.8	2514.9	1.1	0	0	0	0	0	0
Alisma 1	28 15 10.883	140 56 31.961	Murteree Sh	2514.9	2571.3		0	0	0	0	0	0
Alisma 1	28 15 10.883	140 56 31.961	Patchawarra Fm	2571.3	2866.3	1.3	0	0	0	0	0	0
Allambi 1	28 16 36.872	140 51 18.076	Toolachee Fm	2041.9	2172.0							
Allambi 1	28 16 36.872	140 51 18.076	Daralingie Fm	2172.0	2189.1							
Allambi 1	28 16 36.872	140 51 18.076	Roseneath Sh	2189.1	2263.4							
Allambi 1	28 16 36.872	140 51 18.076	Epsilon Fm	2263.4	2329.9							
Allambi 1	28 16 36.872	140 51 18.076	Murteree Sh	2329.9	2381.4							
Allambi 1	28 16 36.872	140 51 18.076	Patchawarra Fm	2381.4	3144.3							
Allunga 1	28 19 06.8766	140 20 42.9592	Toolachee Fm	2266.5	2379.9							
Allunga 1	28 19 06.8766	140 20 42.9592	Daralingie Fm	2379.9	2457.3							
Allunga 1	28 19 06.8766	140 20 42.9592	Roseneath Sh	2457.3	2524.0							
Allunga 1	28 19 06.8766	140 20 42.9592	Epsilon Fm	2524.0	2633.5							
Allunga 1	28 19 06.8766	140 20 42.9592	Murteree Sh	2633.5	2704.8							
Allunga 1	28 19 06.8766	140 20 42.9592	Patchawarra Fm	2704.8	3144.3							
Allunga Trough 1	28 20 27.450	140 18 59.660	Toolachee Fm	2264.1	2439.0							
Allunga Trough 1	28 20 27.450	140 18 59.660	Roseneath Sh	2439.0	2514.0							
Allunga Trough 1	28 20 27.450	140 18 59.660	Epsilon Fm	2514.0	2619.5							
Allunga Trough 1	28 20 27.450	140 18 59.660	Murteree Sh	2619.5	2701.1							
Allunga Trough 1	28 20 27.450	140 18 59.660	Patchawarra Fm	2701.1	2692.9							
Alwyn 1	28 29 53.940	140 19 42.470	No Permian									
Alwyn 2	28 29 23.870	140 19 56.790	No Permian									
Alwyn 3	28 29 38.030	140 19 32.690	No Permian									
Alwyn 4	28 29 45.037	140 19 10.195	No Permian									
Alwyn 5	28 29 07.061	140 19 14.416	No Permian									
Alwyn North 1	28 28 40.003	140 20 37.400	No Permian									
Amyema 1	28 22 54.490	140 56 22.210	Toolachee Fm	1883.7	2033.6		0	0	0	0	0	0
Andree 1	27 44 12.600	139 58 00.000	Toolachee Fm	2622.5	2679.2		0	0	0	0	0	0
Andree 1	27 44 12.600	139 58 00.000	Epsilon Fm	2679.2	2726.4	0.9	0	0	0	0	0	0
Andree 1	27 44 12.600	139 58 00.000	Murteree Sh	2726.4	2732.2		0	0	0	0	0	0
Andree 1	27 44 12.600	139 58 00.000	Patchawarra Fm	2732.2	3087.6	0.9	0	0		0	0	0
Andree 2	27 43 54.920	139 58 29.460	Toolachee Fm	2642.6	2697.5	0.82	0	0	0	0	0	0
Andree 2	27 43 54.920	139 58 29.460	Patchawarra Fm	2859.6	3113.5	0.9	0	0	0	0	0	0
Angelica 1	27 08 31.395	140 23 41.379	No Permian									
Apachirie 1	27 05 35.845	140 25 49.335	No Permian									
Araburg 1	26 25 44.126	140 57 03.380	Toolachee Fm	2250.3	2254.9		0	0	0	0	0	0
Aragorn 1	28 26 29.989	140 24 48.604	No Permian									
Aratna 1	27 57 15.495	139 45 54.470	Toolachee Fm	2421.6	2462.5							
Aratna 1	27 57 15.495	139 45 54.470	Daralingie Fm	2462.5	2479.9							
Aratna 1	27 57 15.495	139 45 54.470	Roseneath Sh	2479.9	2497.8							
Aratna 1	27 57 15.495	139 45 54.470	Epsilon Fm	2497.8	2549.7							
Aratna 1	27 57 15.495	139 45 54.470	Murteree Sh	2549.7	2572.5							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0		0	3	23.4			Wood	
0		0	3	5.4			Wood	
0		0	0				Wood	
0		0	1	2.8			Wood	
0		0	0				Wood	
0		0	4	49.6			Wood	
		0	3	23.4				
		0	2	3.6				
		0	0					
		0	1	2.8				
		0	0					
		0	5	62				
		0	2	15.6				
		1	2					
		0	0	0				
		0	1					
		0	2	24.8				
0		3						
0		1	2	15.6			Dettmann, Wood	
0		0	1	2.8			Dettmann, Wood	
0		0	0				Dettmann, Wood	
0		0	3	37.2			Dettmann, Wood	
0		1	2	15.6		1	Wood, Williams	
0		1	2	24.8			Wood, Williams	
0		0	0	0			Marshall, Wood	
		0	4	31.2				
		0	1	1.8				
		0	0					
		0	4	11.2				
		0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Aratna 1	27 57 15.495	139 45 54.470	Patchawarra Fm	2572.5	2961.7	1.21						
Aroona 1	28 12 38.610	140 43 48.420	Toolachee Fm	1981.8	2056.8	1.05	0	0	0	0	0	0
Aroona 1	28 12 38.610	140 43 48.420	Toolachee Fm	1981.8	2056.8	1.05	0	0	0	0	0	0
Aroona 1	28 12 38.610	140 43 48.420	Patchawarra Fm	2117.1	2137.3	1.05	0	0	0	0	0	0
Arosa 1	27 21 11.527	139 56 20.557	Toolachee Fm	2331.1	2343.9		0	0	0	0	0	0
Arosa 1	27 21 11.527	139 56 20.557	Patchawarra Fm	2349.1	2364.6		0	0	0	0	0	0
Arrakis 1	28 11 19.23	139 59 36.18	Toolachee Fm	2119.6	2119.6		0	0	0	0	0	0
Arrakis 1	28 11 19.23	139 59 36.18	Daralingie Fm	2159.5	2159.5	0.9	0	1	0	0	0	0
Arrakis 1	28 11 19.23	139 59 36.18	Roseneath Sh	2179.3	2179.3	0.95	0	1	0	0	0	0
Arrakis 1	28 11 19.23	139 59 36.18	Epsilon Fm	2227.2	2227.2		0	0	0	0	0	0
Arrakis 1	28 11 19.23	139 59 36.18	Murteree Sh	2257.0	2257.0		0	0	0	0	0	0
Arrakis 1	28 11 19.23	139 59 36.18	Patchawarra Fm	2297.6	2372.6	1.1	0	0	0	0	0	0
Arrakis North 1	28 10 46.56	139 58 43.31	Toolachee Fm	2126.0	2163.5	0.85	0	0	1	0	0	0
Arrakis North 1	28 10 46.56	139 58 43.31	Daralingie Fm	2163.5	2182.4	0.85	0	1	0	0	0	0
Arrakis North 1	28 10 46.56	139 58 43.31	Roseneath Sh	2182.4	2225.3	0.85	0	0	0	0	0	0
Arrakis North 1	28 10 46.56	139 58 43.31	Epsilon Fm	2225.3	2254.9		0	0	0	0	0	0
Arrakis North 1	28 10 46.56	139 58 43.31	Murteree Sh	2254.9	2294.5	0.85	0	0	0	0	0	0
Arrakis North 1	28 10 46.56	139 58 43.31	Patchawarra Fm	2294.5	2461.0	0.9	0	0	0	0	0	0
Arrakis North 2	28 10 25.400	139 57 50.300	Toolachee Fm	2140.3	2176.9		0	0	0	0	0	0
Arrakis North 2	28 10 25.400	139 57 50.300	Daralingie Fm	2176.9	2219.9		0	0	0	0	0	0
Arrakis North 2	28 10 25.400	139 57 50.300	Roseneath Sh	2219.9	2243.9		0	1	0	0	0	0
Arrakis North 2	28 10 25.400	139 57 50.300	Epsilon Fm	2243.9	2260.4	0.8	0	1	0	0	0	0
Arrakis North 2	28 10 25.400	139 57 50.300	Murteree Sh	2260.4	2303.7	0.8	0	0	0	0	0	0
Arrakis North 2	28 10 25.400	139 57 50.300	Patchawarra Fm	2303.7	2468.3	1.1	0	0	0	1	0	0
Arrakis North 3	28 10 54.772	139 57 10.411	Toolachee Fm	2133.6	2187.5		0	0	0	0	0	0
Arrakis North 3	28 10 54.772	139 57 10.411	Daralingie Fm	2187.5	2201.9		0	0	0	0	0	0
Arrakis North 3	28 10 54.772	139 57 10.411	Roseneath Sh	2201.9	2247.9		0	0	0	0	0	0
Arrakis North 3	28 10 54.772	139 57 10.411	Epsilon Fm	2247.9	2267.7		0	0	0	0	0	0
Arrakis North 3	28 10 54.772	139 57 10.411	Murteree Sh	2267.7	2313.1		0	0	0	0	0	0
Arrakis North 3	28 10 54.772	139 57 10.411	Patchawarra Fm	2313.1	2468.9	1	0	1	1	1	0	0
Atreides 1	28 14 22.75	139 58 19.840	Toolachee Fm	2023.9	2065.9	0.9	0	0	0	0	0	0
Atreides 1	28 14 22.75	139 58 19.840	Daralingie Fm	2065.9	2098.2	0.9	0	0	0	0	0	0
Atreides 1	28 14 22.75	139 58 19.840	Roseneath Sh	2098.2	2147.0		0	0	0	0	0	0
Atreides 1	28 14 22.75	139 58 19.840	Epsilon Fm	2147.0	2182.1		0	0	0	0	0	0
Atreides 1	28 14 22.75	139 58 19.840	Murteree Sh	2182.1	2218.0		0	0	0	0	0	0
Atreides 1	28 14 22.75	139 58 19.840	Patchawarra Fm	2218.0	2240.3	1	0	0	0	0	0	0
Augusta 1	28 18 10.02	140 04 55.61	Toolachee Fm	2144.3	2200.7		0	0	0	0	0	0
Augusta 1	28 18 10.02	140 04 55.61	Daralingie Fm	2200.7	2225.6		0	0	0	0	0	0
Augusta 1	28 18 10.02	140 04 55.61	Roseneath Sh	2225.6	2266.2		0	0	0	0	0	0
Augusta 1	28 18 10.02	140 04 55.61	Epsilon Fm	2266.2	2333.2		0	0	0	0	0	0
Augusta 1	28 18 10.02	140 04 55.61	Murteree Sh	2333.2	2383.5		0	0	0	0	0	0
Augusta 1	28 18 10.02	140 04 55.61	Patchawarra Fm	2383.5	2641.1		0	1	2	0	0	0
Azolla 1	28 30 07.16	140 52 28.68	Toolachee Fm	1819.7	1967.5	0.9	0	0	0	0	0	0
Azolla 1	28 30 07.16	140 52 28.68	Daralingie Fm	1967.5	2031.8	0.8	0	0	0	0	0	0
Azolla 1	28 30 07.16	140 52 28.68	Roseneath Sh	2031.8	2092.8		0	0	0	0	0	0

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			0	5	62	4.2	5		
0			0.5				5	Jones	
0							5	Jones	
0							1	Jones	
0				2	15.6			Wood, Williams	
0				1	12.4			Wood, Williams	
0			0	3	23.4			Marshall, Wood	
1			0	0	0			Marshall, Wood	
1			0	0				Marshall, Wood	
0			0	2	5.6			Marshall, Wood	
0			0	0				Marshall, Wood	
0			0	2	24.8			Marshall, Wood	
1			0	3	23.4			Marshall, Wood	
1			1	2	3.6			Marshall, Wood	
0			0	0				Marshall, Wood	
0			0	3	8.4			Marshall, Wood	
0			0	0				Marshall, Wood	
0			2	4	49.6			Marshall, Wood	
0			0	3	23.4			Wood	
0			0	1	1.8			Wood	
1			0	0				Wood	
1			0	3	8.4			Wood	
0			0	0				Wood	
1			0	5	62			Wood	
0			0	5	39			Wood	
0			0	0	0			Wood	
0			0	0				Wood	
0			0	5	14			Wood	
0			0	0				Wood	
4			1	4	49.6			Wood	
0			1	3	23.4			Wood, Marshall	
0			0	2	3.6				
0			0	0					
0			0	3	8.4				
0			0	0					
0			0	1	12.4				
0			1	3	23.4			Wood	
0			0	1	1.8			Wood	
0			0	0				Wood	
0			3	3	8.4			Wood	
0			0	0				Wood	
3			1	3	37.2			Wood	
0			1	2	15.6			Wood, Marshall	
0			0	1	1.8			Wood, Marshall	
0			0	0				Wood, Marshall	

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Azolla 1	28 30 07.16	140 52 28.68	Epsilon Fm	2092.8	2165.3	0.85	0	0	0	0	0	0
Azolla 1	28 30 07.16	140 52 28.68	Murteree Sh	2165.3	2223.8		0	0	0	0	0	0
Azolla 1	28 30 07.16	140 52 28.68	Patchawarra Fm	2223.8	2253.7	0.9	0	0	0	0	0	0
Bagundi 1	28 12 52.580	140 45 05.570	Toolachee Fm	1957.4	2038.5	1.2						
Bagundi 1	28 12 52.580	140 45 05.570	Epsilon Fm	2038.5	2065.6	1.1						
Bagundi 1	28 12 52.580	140 45 05.570	Murteree Sh	2065.6	2101.0	1.3						
Bagundi 1	28 12 52.580	140 45 05.570	Patchawarra Fm	2101.0	1986.4	1.3						
Bagundi 2	28 12 39.340	140 44 19.090	Toolachee Fm	1986.4	2066.5	1	0	0	1	0	0	0
Bagundi 2	28 12 39.340	140 44 19.090	Epsilon Fm	2066.5	2086.1	1	0	0	0	0	0	0
Bagundi 2	28 12 39.340	140 44 19.090	Murteree Sh	2086.1	2126.0		0	0	0	0	0	0
Bagundi 2	28 12 39.340	140 44 19.090	Patchawarra Fm	2126.0	2212.2		0	0	0	0	0	0
Bagundi 3	28 12 44.700	140 46 15.980	Toolachee Fm	1983.3	2071.1							
Bagundi 3	28 12 44.700	140 46 15.980	Epsilon Fm	2071.1	2102.8							
Bagundi 3	28 12 44.700	140 46 15.980	Murteree Sh	2102.8	2140.6							
Bagundi 3	28 12 44.700	140 46 15.980	Patchawarra Fm	2140.6	2211.6							
Bagundi 4	28 13 06.046	140 45 12.078	Toolachee Fm	1952.5	2037.3	0.9	0	0	0	0	0	0
Bagundi 4	28 13 06.046	140 45 12.078	Epsilon Fm	2037.3	2069.3	1	0	1	0	0	0	0
Bagundi 4	28 13 06.046	140 45 12.078	Murteree Sh	2069.3	2106.2		0	0	0	0	0	0
Bagundi 4	28 13 06.046	140 45 12.078	Patchawarra Fm	2106.2	2137.6		0	1	0	1	0	0
Balcaminga 1	27 34 30.330	140 21 22.570	Toolachee Fm	2837.7	2876.7							
Balcaminga 1	27 34 30.330	140 21 22.570	Epsilon Fm	2876.7	2899.9							
Balcaminga 1	27 34 30.330	140 21 22.570	Murteree Sh	2899.9	2918.8							
Balcaminga 1	27 34 30.330	140 21 22.570	Patchawarra Fm	2918.8	3176.3							
Baratta 1	28 17 33.57	140 41 06.74	Toolachee Fm	1976.6	2076.6	1						
Baratta 1	28 17 33.57	140 41 06.74	Roseneath Sh	2076.6	2087.9	1.1						
Baratta 1	28 17 33.57	140 41 06.74	Epsilon Fm	2087.9	2136.6	1.1						
Baratta 1	28 17 33.57	140 41 06.74	Murteree Sh	2136.6	2181.1	1.1						
Baratta 1	28 17 33.57	140 41 06.74	Patchawarra Fm	2181.1	2272.0	1.2						
Baratta 2	28 17 59.510	140 40 01.256	Toolachee Fm	1978.2	2070.8							
Baratta 2	28 17 59.510	140 40 01.256	Roseneath Sh	2070.8	2083.6							
Baratta 2	28 17 59.510	140 40 01.256	Epsilon Fm	2083.6	2128.7							
Baratta 2	28 17 59.510	140 40 01.256	Murteree Sh	2128.7	2178.1							
Baratta 2	28 17 59.510	140 40 01.256	Patchawarra Fm	2178.1	2258.6							
Baratta South 1	28 18 56.869	140 40 23.093	Toolachee Fm	1993.4	2100.7		0	0	0	0	0	0
Baratta South 1	28 18 56.869	140 40 23.093	Roseneath Sh	2100.7	2122.3		0	0	0	0	0	0
Baratta South 1	28 18 56.869	140 40 23.093	Epsilon Fm	2122.3	2179.9		0	0	0	0	0	0
Baratta South 1	28 18 56.869	140 40 23.093	Murteree Sh	2179.9	2229.0		0	0	0	0	0	0
Baratta South 1	28 18 56.869	140 40 23.093	Patchawarra Fm	2229.0	2315.9	1.1	0	0	0	0	0	0
Baratta West 1	28 17 40.170	140 38 40.070	Toolachee Fm	1987.3	2073.9							
Baratta West 1	28 17 40.170	140 38 40.070	Epsilon Fm	2073.9	2120.8							
Baratta West 1	28 17 40.170	140 38 40.070	Murteree Sh	2120.8	2140.6							
Baratta West 1	28 17 40.170	140 38 40.070	Patchawarra Fm	2140.6	2292.1							
Barcooloo 1	28 25 46.70	140 39 18.98	Toolachee Fm	1852.9	1964.7	1	0	0	0	0	0	0
Barcooloo 1	28 25 46.70	140 39 18.98	Daralingie Fm	1964.7	1987.0	1.1	0	0	0	0	0	0
Barcooloo 1	28 25 46.70	140 39 18.98	Roseneath Sh	1987.0	2025.1	1.1	0	1	0	0	0	0

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0		1	1	2.8			Wood, Marshall	
0		0	0				Wood, Marshall	
0		1.5	1	12.4			Wood, Marshall	
		0.5						
2		0	2	15.6			Jones	
0		0	2	5.6			Jones	
0	2	0	0				Jones	
0		2	3	37.2			Jones	
		4	3	23.4				
		0	1	2.8				
		0	0					
		2	1	12.4				
0		0	1	7.8			Wood	
1		1	2	5.6			Wood	
0		0	0				Wood	
2		0	0	0			Wood	
		0	4	31.2				
		0	4	11.2				
		0	0					
		1	4	49.6				
		0	1	7.8			Wood	
		0	0				Wood	
		0	1	2.8			Wood	
		0	0				Wood	
		4	2	24.8			Wood	
		0	4	31.2				
		0	0					
		0	1	2.8				
		0	0					
		0	1	12.4				
0		0	4	31.2			Wood	
0		0	0				Wood	
0		0	1	2.8			Wood	
0		0	0				Wood	
0		3	3	37.2			Wood	
		0	2	15.6				
		0	0	0				
		0	0					
		1	2	24.8				
0		0	5	39			Wood	
0		0	1	1.8			Wood	
1		0	0				Wood	

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Barcooloo 1	28 25 46.70	140 39 18.98	Epsilon Fm	2025.1	2082.4	1.1	0	0	0	0	0	0
Barcooloo 1	28 25 46.70	140 39 18.98	Murteree Sh	2082.4	2131.8	1.3	0	0	0	0	0	0
Barcooloo 1	28 25 46.70	140 39 18.98	Patchawarra Fm	2131.8	2156.2	1.1	0	0	0	0	0	0
Barina 1	28 18 09.973	139 54 54.928	Toolachee Fm	1991.0	2033.0							
Barina 1	28 18 09.973	139 54 54.928	Daralingie Fm	2033.0	2064.1							
Barina 1	28 18 09.973	139 54 54.928	Roseneath Sh	2064.1	2115.3							
Barina 1	28 18 09.973	139 54 54.928	Epsilon Fm	2115.3	2156.8							
Barina 1	28 18 09.973	139 54 54.928	Murteree Sh	2156.8	2198.8							
Barina 1	28 18 09.973	139 54 54.928	Patchawarra Fm	2198.8	2264.1							
Barina 2	28 18 58.61	139 55 08.09	Toolachee Fm	1990.3	2026.9							
Barina 2	28 18 58.61	139 55 08.09	Daralingie Fm	2026.9	2064.1		0	0	0	0	0	0
Barina 2	28 18 58.61	139 55 08.09	Roseneath Sh	2064.1	2112.3							
Barina 2	28 18 58.61	139 55 08.09	Epsilon Fm	2112.3	2160.7							
Barina 2	28 18 58.61	139 55 08.09	Murteree Sh	2160.7	2199.7							
Barina 2	28 18 58.61	139 55 08.09	Patchawarra Fm	2199.7	2286.9							
Barina 3	28 17 50.670	139 55 30.623	Toolachee Fm	1976.3	2014.1							
Barina 3	28 17 50.670	139 55 30.623	Daralingie Fm	2014.1	2040.9							
Barina 3	28 17 50.670	139 55 30.623	Roseneath Sh	2040.9	2090.0							
Barina 3	28 17 50.670	139 55 30.623	Epsilon Fm	2090.0	2131.2							
Barina 3	28 17 50.670	139 55 30.623	Murteree Sh	2131.2	2170.2							
Barina 3	28 17 50.670	139 55 30.623	Patchawarra Fm	2170.2	2225.0							
Barra 1	28 18 44.500	139 49 50.000	Toolachee Fm	1854.4	1868.7							
Barra 1	28 18 44.500	139 49 50.000	Daralingie Fm	1868.7	1879.7							
Barra 1	28 18 44.500	139 49 50.000	Roseneath Sh	1879.7	1922.4							
Barra 1	28 18 44.500	139 49 50.000	Epsilon Fm	1922.4	1948.9							
Barra 1	28 18 44.500	139 49 50.000	Murteree Sh	1948.9	1976.0							
Barra 1	28 18 44.500	139 49 50.000	Patchawarra Fm	1976.0	2071.4							
Bartilla 1	28 15 11.676	139 52 36.308	Toolachee Fm	1843.4	1948.9		0	0	0	0	0	0
Bartilla 1	28 15 11.676	139 52 36.308	Daralingie Fm	1948.9	1964.1		4	0	0	0	0	0
Bartilla 1	28 15 11.676	139 52 36.308	Roseneath Sh	1964.1	1995.5							
Bartilla 1	28 15 11.676	139 52 36.308	Epsilon Fm	1995.5	2026.6							
Bartilla 1	28 15 11.676	139 52 36.308	Murteree Sh	2026.6	2055.6		0	0	0	0	0	0
Bartilla 1	28 15 11.676	139 52 36.308	Murteree Sh	2026.6	2055.6		0	0	0	0	0	0
Bartilla 1	28 15 11.676	139 52 36.308	Patchawarra Fm	2055.6	2142.1	0.9	0	0	0	0	0	0
Battunga 1	28 32 51.810	140 32 15.240	Toolachee Fm	1845.6	1933.0	0.66	0	0	0	0	1	0
Battunga 1	28 32 51.810	140 32 15.240	Daralingie Fm	1933.0	1964.1	0.69	0	0	0	0	1	0
Battunga 1	28 32 51.810	140 32 15.240	Roseneath Sh	1964.1	2012.6	0.69	0	0	0	0	1	0
Battunga 1	28 32 51.810	140 32 15.240	Epsilon Fm	2012.6	2093.1	0.76	0	0	0	0	1	0
Battunga 1	28 32 51.810	140 32 15.240	Murteree Sh	2093.1	2158.3	0.8						
Battunga 1	28 32 51.810	140 32 15.240	Patchawarra Fm	2158.3	2423.2	1.04	0	0	0	0	1	0
Bauhaus 1	28 23 23.278	140 16 57.104	Toolachee Fm	2142.1	2161.6		0	0	0	0	0	0
Bauhaus 1	28 23 23.278	140 16 57.104	Patchawarra Fm	2609.7	2876.4		0	0	0	0	0	0
Bauhinia 1	27 30 03.577	140 54 39.879	Toolachee Fm	2115.3	2146.4		0	0	0	0	0	0
Bauhinia 1	27 30 03.577	140 54 39.879	Patchawarra Fm	2148.8	2219.6	0.9	0	0	0	0	0	0
Bauhinia 2	27 29 53.400	140 54 24.128	Toolachee Fm	2082.7	2116.2							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			0	1	2.8			Wood	
0			0	0				Wood	
0			1	0	0			Wood	
			0	5	39				
			0	1	1.8				
			2	0					
			2	4	11.2				
			0	0					
			3	1	12.4				
		1	0	4	31.2			APG	
0		2	0	2	3.6			APG	
		1	0	0				APG	
		1	0	3	8.4			APG	
		1	0	0				APG	
		1	0	2	24.8			APG	
			0	2	15.6				
			0	2	3.6				
			0	0					
			0	3	8.4				
			0	0					
			0	1	12.4				
			0	3	23.4				
			0	2	3.6				
			0	0					
			0	4	11.2				
			0	0					
			0	5	62				
0				1	7.8			Wood, Benson	
4				1	1.8			Wood, Benson	
								Wood, Benson	
								Wood, Benson	
0			2.5	0				Wood, Benson	
0				0				Wood, Benson	
0				3	37.2			Wood, Benson	
1			0	5	39		5	Jones, Wood	
1			1	2	3.6		5	Jones, Wood	
1			0	0			5	Jones, Wood	
1			0	3	8.4		5	Jones, Wood	
1			0	2	24.8		5	Jones, Wood	
0				2	15.6			Wood	
0				3	37.2			Wood	
0				2	15.6			Wood	
0				2	24.8			Wood	
			0	1	7.8				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Bauhinia 2	27 29 53.400	140 54 24.128	Patchawarra Fm	2116.2	2120.2							
Beanbush 1	27 17 16.090	140 38 27.480	Toolachee Fm	3201.6	3259.2	1.18	0	0	0	0	0	0
Beanbush 1	27 17 16.090	140 38 27.480	Epsilon Fm	3259.2	3276.6	1.16	0	0	0	0	0	0
Beanbush 1	27 17 16.090	140 38 27.480	Murteree Sh	3276.6	3296.7		0	0	0	0	0	0
Beanbush 1	27 17 16.090	140 38 27.480	Patchawarra Fm	3296.7	2270.8	1.78	0	0	0	0	0	0
Beckler 1	28 03 02.637	140 57 25.988	Toolachee Fm	2407.0	2443.0		0	0	0	0	0	0
Beckler 1	28 03 02.637	140 57 25.988	Daralingie Fm	2453.3	2471.0		0	0	0	0	0	0
Beckler 1	28 03 02.637	140 57 25.988	Epsilon Fm	2567.9	2610.0		0	0	0	0	0	0
Beckler 1	28 03 02.637	140 57 25.988	Roseneath Sh	2691.8	2691.8		0	0	0	0	0	0
Beckler 1	28 03 02.637	140 57 25.988	Patchawarra Fm	2986.2	2891.3		0	0	0	0	0	0
Biala 1	28 32 01.050	140 21 58.210	No Permian									
Biala 2	28 31 49.640	140 21 21.770	No Permian									
Biala 3	28 31 28.430	140 22 29.870	No Permian									
Biala 4	28 31 03.280	140 21 57.720	No Permian									
Biala 5	28 31 57.691	140 22 12.653	No Permian									
Biala 6	28 30 53.368	140 22 30.663	No Permian									
Biala 7	28 32 14.351	140 22 02.185	No Permian									
Big Lake 26	28 12 58.290	140 18 05.260	Toolachee Fm	2251.9	2333.5							
Big Lake 26	28 12 58.290	140 18 05.260	Daralingie Fm	2333.5	2363.7							
Big Lake 26	28 12 58.290	140 18 05.260	Roseneath Sh	2363.7	2404.6							
Big Lake 26	28 12 58.290	140 18 05.260	Epsilon Fm	2404.6	2478.0							
Big Lake 26	28 12 58.290	140 18 05.260	Murteree Sh	2478.0	2534.7							
Big Lake 26	28 12 58.290	140 18 05.260	Patchawarra Fm	2534.7	2861.5							
Big Lake 27	28 12 00.700	140 19 50.330	Toolachee Fm	2287.2	2369.5							
Big Lake 27	28 12 00.700	140 19 50.330	Daralingie Fm	2369.5	2395.4							
Big Lake 27	28 12 00.700	140 19 50.330	Roseneath Sh	2395.4	2438.7							
Big Lake 27	28 12 00.700	140 19 50.330	Epsilon Fm	2438.7	2510.9							
Big Lake 27	28 12 00.700	140 19 50.330	Murteree Sh	2510.9	2565.5							
Big Lake 27	28 12 00.700	140 19 50.330	Patchawarra Fm	2565.5	2890.7							
Big Lake 28	28 12 42.900	140 18 31.970	No Permian									
Big Lake 29	28 14 13.540	140 16 38.770	Toolachee Fm	2270.8	2347.9							
Big Lake 29	28 14 13.540	140 16 38.770	Daralingie Fm	2347.9	2395.7							
Big Lake 29	28 14 13.540	140 16 38.770	Roseneath Sh	2395.7	2436.3							
Big Lake 29	28 14 13.540	140 16 38.770	Epsilon Fm	2436.3	2521.0							
Big Lake 29	28 14 13.540	140 16 38.770	Murteree Sh	2521.0	2579.5							
Big Lake 29	28 14 13.540	140 16 38.770	Patchawarra Fm	2579.5	2954.1							
Big Lake 30	28 14 50.280	140 15 36.010	Toolachee Fm	2293.0	2376.8							
Big Lake 30	28 14 50.280	140 15 36.010	Daralingie Fm	2376.8	2433.2							
Big Lake 30	28 14 50.280	140 15 36.010	Roseneath Sh	2433.2	2481.4							
Big Lake 30	28 14 50.280	140 15 36.010	Epsilon Fm	2481.4	2561.5							
Big Lake 30	28 14 50.280	140 15 36.010	Murteree Sh	2561.5	2620.7							
Big Lake 30	28 14 50.280	140 15 36.010	Patchawarra Fm	2620.7	3054.4							
Big Lake 31	28 14 13.850	140 17 58.910	Toolachee Fm	2314.0	2397.3							
Big Lake 31	28 14 13.850	140 17 58.910	Daralingie Fm	2397.3	2455.2							
Big Lake 31	28 14 13.850	140 17 58.910	Roseneath Sh	2455.2	2502.1							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0	0	0				
0		0	3	23.4			Williams	gas show
0		0	2	5.6			Williams	
0		0	0				Williams	
0		3	5	62			Williams	gas show
0			2	15.6			Price (APG)	
0			0	0			Price (APG)	
0			0	0			Price (APG)	
0			0				Price (APG)	
0			1	12.4			Price (APG)	
		0	3	23.4				
		0	1	1.8				
		0	0					
		0	2	5.6				
		0	0					
		0	2	24.8				
		0	1	7.8				
		0	2	3.6				
		0	0					
		0	1	2.8				
		0	0					
		0	3	37.2				
		0	3	23.4				
		0	2	3.6				
		0	0					
		0	2	5.6				
		0	0					
		0	2	24.8				
		0	1	7.8				
		0	0	0				
		0	0					
		0	2	5.6				
		0	0					
		1	2	24.8				
		0	3	23.4				
		0	1	1.8				
		0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Big Lake 31	28 14 13.850	140 17 58.910	Epsilon Fm	2502.1	2586.2							
Big Lake 31	28 14 13.850	140 17 58.910	Murteree Sh	2586.2	2648.4							
Big Lake 31	28 14 13.850	140 17 58.910	Patchawarra Fm	2648.4	3018.1							
Big Lake 32	28 13 15.850	140 17 21.120	Toolachee Fm	2279.9	2364.3							
Big Lake 32	28 13 15.850	140 17 21.120	Daralingie Fm	2364.3	2379.3							
Big Lake 32	28 13 15.850	140 17 21.120	Roseneath Sh	2379.3	2409.1							
Big Lake 32	28 13 15.850	140 17 21.120	Epsilon Fm	2409.1	2456.1							
Big Lake 32	28 13 15.850	140 17 21.120	Murteree Sh	2456.1	2510.3							
Big Lake 32	28 13 15.850	140 17 21.120	Patchawarra Fm	2510.3	2846.2							
Big Lake 33	28 16 04.020	140 12 51.130	Toolachee Fm	2310.4	2395.1							
Big Lake 33	28 16 04.020	140 12 51.130	Daralingie Fm	2395.1	2461.6							
Big Lake 33	28 16 04.020	140 12 51.130	Roseneath Sh	2461.6	2512.8							
Big Lake 33	28 16 04.020	140 12 51.130	Epsilon Fm	2512.8	2592.6							
Big Lake 33	28 16 04.020	140 12 51.130	Murteree Sh	2592.6	2653.6							
Big Lake 33	28 16 04.020	140 12 51.130	Patchawarra Fm	2653.6	3059.3							
Big Lake 34	28 13 15.240	140 18 30.430	Toolachee Fm	2283.9	2362.2							
Big Lake 34	28 13 15.240	140 18 30.430	Daralingie Fm	2362.2	2402.4							
Big Lake 34	28 13 15.240	140 18 30.430	Roseneath Sh	2402.4	2444.2							
Big Lake 34	28 13 15.240	140 18 30.430	Epsilon Fm	2444.2	2520.4							
Big Lake 34	28 13 15.240	140 18 30.430	Murteree Sh	2520.4	2578.3							
Big Lake 34	28 13 15.240	140 18 30.430	Patchawarra Fm	2578.3	2915.7							
Big Lake 35	28 12 51.500	140 18 49.530	Toolachee Fm	2293.9	2372.9							
Big Lake 35	28 12 51.500	140 18 49.530	Daralingie Fm	2372.9	2408.8							
Big Lake 35	28 12 51.500	140 18 49.530	Roseneath Sh	2408.8	2449.4							
Big Lake 35	28 12 51.500	140 18 49.530	Epsilon Fm	2449.4	2522.5							
Big Lake 35	28 12 51.500	140 18 49.530	Murteree Sh	2522.5	2580.7							
Big Lake 35	28 12 51.500	140 18 49.530	Patchawarra Fm	2580.7	2918.8							
Big Lake 36	28 13 18.210	140 18 05.280	No Permian									
Big Lake 37	28 12 51.860	140 18 04.340	No Permian									
Big Lake 38	28 14 53.770	140 15 33.480	No Permian									
Big Lake 39	28 13 21.770	140 17 46.310	No Permian									
Big Lake 40	28 13 01.490	140 18 23.360	No Permian									
Big Lake 41	28 11 22.740	140 20 09.960	Toolachee Fm	2312.2	2393.9							
Big Lake 41	28 11 22.740	140 20 09.960	Daralingie Fm	2393.9	2420.1							
Big Lake 41	28 11 22.740	140 20 09.960	Roseneath Sh	2420.1	2458.8							
Big Lake 41	28 11 22.740	140 20 09.960	Epsilon Fm	2458.8	2536.2							
Big Lake 41	28 11 22.740	140 20 09.960	Murteree Sh	2536.2	2593.5							
Big Lake 41	28 11 22.740	140 20 09.960	Patchawarra Fm	2593.5	2928.5							
Big Lake 42	28 12 45.370	140 18 51.260	No Permian									
Big Lake 43	28 15 26.760	140 14 45.320	Toolachee Fm	2288.7	2359.8							
Big Lake 43	28 15 26.760	140 14 45.320	Daralingie Fm	2359.8	2431.4							
Big Lake 43	28 15 26.760	140 14 45.320	Roseneath Sh	2431.4	2480.8							
Big Lake 43	28 15 26.760	140 14 45.320	Epsilon Fm	2480.8	2562.8							
Big Lake 43	28 15 26.760	140 14 45.320	Murteree Sh	2562.8	2625.2							
Big Lake 43	28 15 26.760	140 14 45.320	Patchawarra Fm	2625.2	3047.7							

Table 2 *Alginite Database*

[illegible]

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Big Lake 44	28 14 40.840	140 16 49.060	Toolachee Fm	2294.5	2378.0							
Big Lake 44	28 14 40.840	140 16 49.060	Daralingie Fm	2378.0	2436.3							
Big Lake 44	28 14 40.840	140 16 49.060	Roseneath Sh	2436.3	2485.6							
Big Lake 44	28 14 40.840	140 16 49.060	Epsilon Fm	2485.6	2570.1							
Big Lake 44	28 14 40.840	140 16 49.060	Murteree Sh	2570.1	2632.9							
Big Lake 44	28 14 40.840	140 16 49.060	Patchawarra Fm	2632.9	3027.3							
Big Lake 45	28 17 36.071	140 14 23.390	Toolachee Fm	2326.8	2422.6							
Big Lake 45	28 17 36.071	140 14 23.390	Daralingie Fm	2422.6	2509.7							
Big Lake 45	28 17 36.071	140 14 23.390	Roseneath Sh	2509.7	2575.9							
Big Lake 45	28 17 36.071	140 14 23.390	Epsilon Fm	2575.9	2675.5							
Big Lake 45	28 17 36.071	140 14 23.390	Murteree Sh	2675.5	2721.9							
Big Lake 46	28 11 17.010	140 21 10.020	Toolachee Fm	2318.9	2404.9							
Big Lake 46	28 11 17.010	140 21 10.020	Daralingie Fm	2404.9	2441.8							
Big Lake 46	28 11 17.010	140 21 10.020	Roseneath Sh	2441.8	2485.9							
Big Lake 46	28 11 17.010	140 21 10.020	Epsilon Fm	2485.9	2562.8							
Big Lake 46	28 11 17.010	140 21 10.020	Murteree Sh	2562.8	2621.0							
Big Lake 46	28 11 17.010	140 21 10.020	Patchawarra Fm	2621.0	2950.5							
Big Lake 47	28 17 08.451	140 13 36.166	Toolachee Fm	2318.9	2413.4							
Big Lake 47	28 17 08.451	140 13 36.166	Daralingie Fm	2413.4	2502.7							
Big Lake 47	28 17 08.451	140 13 36.166	Roseneath Sh	2502.7	2565.8							
Big Lake 47	28 17 08.451	140 13 36.166	Epsilon Fm	2565.8	2658.5							
Big Lake 47	28 17 08.451	140 13 36.166	Murteree Sh	2658.5	2711.5							
Big Lake 48	28 15 32.915	140 16 59.663	Toolachee Fm	2344.8	2436.0							
Big Lake 48	28 15 32.915	140 16 59.663	Daralingie Fm	2436.0	2517.6							
Big Lake 48	28 15 32.915	140 16 59.663	Roseneath Sh	2517.6	2576.8							
Big Lake 48	28 15 32.915	140 16 59.663	Epsilon Fm	2576.8	2676.8							
Big Lake 48	28 15 32.915	140 16 59.663	Murteree Sh	2676.8	2715.2							
Big Lake 49	28 16 54.364	140 12 25.415	Toolachee Fm	2364.9	2456.4							
Big Lake 49	28 16 54.364	140 12 25.415	Daralingie Fm	2456.4	2546.6							
Big Lake 49	28 16 54.364	140 12 25.415	Roseneath Sh	2546.6	2617.6							
Big Lake 49	28 16 54.364	140 12 25.415	Epsilon Fm	2617.6	2714.5							
Big Lake 49	28 16 54.364	140 12 25.415	Murteree Sh	2714.5	2786.5							
Big Lake 49	28 16 54.364	140 12 25.415	Patchawarra Fm	2786.5	3270.5							
Big Lake 50	28 14 11.634	140 18 49.334	Toolachee Fm	2346.4	2432.6							
Big Lake 50	28 14 11.634	140 18 49.334	Daralingie Fm	2432.6	2488.7							
Big Lake 50	28 14 11.634	140 18 49.334	Roseneath Sh	2488.7	2546.6							
Big Lake 50	28 14 11.634	140 18 49.334	Epsilon Fm	2546.6	2634.4							
Big Lake 50	28 14 11.634	140 18 49.334	Murteree Sh	2634.4	2697.5							
Big Lake 50	28 14 11.634	140 18 49.334	Patchawarra Fm	2697.5	3113.2							
Big Lake 51	28 18 02.828	140 15 24.524	Toolachee Fm	2344.5	2438.4							
Big Lake 51	28 18 02.828	140 15 24.524	Daralingie Fm	2438.4	2532.9							
Big Lake 51	28 18 02.828	140 15 24.524	Roseneath Sh	2532.9	2602.4							
Big Lake 51	28 18 02.828	140 15 24.524	Epsilon Fm	2602.4	2706.0							
Big Lake 51	28 18 02.828	140 15 24.524	Murteree Sh	2706.0	2781.6							
Big Lake 51	28 18 02.828	140 15 24.524	Patchawarra Fm	2781.6	3306.2							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0	4	31.2				
		0	3	5.4				
		0	0					
		0	2	5.6				
		0	0					
		0	4	49.6				
		0	4	31.2				
		0	2	3.6				
		0	0					
		0	2	5.6				
		0	0					
		0	3	23.4				
		0	0	0				
		0	0					
		0	2	5.6				
		0	0					
		0	4	49.6				
		0	2	15.6				
		0	2	3.6				
		0	0					
		0	1	2.8				
		0	0					
		0	3	23.4				
		0	2	3.6				
		0	0					
		0	2	5.6				
		0	0					
		0	3	23.4				
		1	2	3.6				
		0	0					
		0	1	2.8				
		0	0					
		0	4	49.6				
		0	2	15.6				
		0	1	1.8				
		0	0					
		0	1	2.8				
		0	0					
		0	1	12.4				
		0	3	23.4				
		0	2	3.6				
		0	0					
		0	1	2.8				
		0	0					
		0	3	37.2				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Big Lake 52	28 12 32.601	140 18 23.655	Toolachee Fm	2273.8	2351.2							
Big Lake 52	28 12 32.601	140 18 23.655	Daralingie Fm	2351.2	2378.4							
Big Lake 52	28 12 32.601	140 18 23.655	Roseneath Sh	2378.4	2419.5							
Big Lake 52	28 12 32.601	140 18 23.655	Epsilon Fm	2419.5	2495.4							
Big Lake 52	28 12 32.601	140 18 23.655	Murteree Sh	2495.4	2552.7							
Big Lake 52	28 12 32.601	140 18 23.655	Patchawarra Fm	2552.7	2873.0							
Big Lake 53	28 16 23.623	140 16 05.541	Toolachee Fm	2341.2	2443.3							
Big Lake 53	28 16 23.623	140 16 05.541	Daralingie Fm	2443.3	2530.8							
Big Lake 53	28 16 23.623	140 16 05.541	Roseneath Sh	2530.8	2594.2							
Big Lake 53	28 16 23.623	140 16 05.541	Epsilon Fm	2594.2	2693.8							
Big Lake 53	28 16 23.623	140 16 05.541	Murteree Sh	2693.8	2766.1							
Big Lake 53	28 16 23.623	140 16 05.541	Patchawarra Fm	2766.1	3268.4							
Big Lake 54	28 13 32.480	140 20 21.472	Toolachee Fm	2364.0	2448.8							
Big Lake 54	28 13 32.480	140 20 21.472	Daralingie Fm	2448.8	2502.4							
Big Lake 54	28 13 32.480	140 20 21.472	Roseneath Sh	2502.4	2550.3							
Big Lake 54	28 13 32.480	140 20 21.472	Epsilon Fm	2550.3	2639.0							
Big Lake 54	28 13 32.480	140 20 21.472	Murteree Sh	2639.0	2707.5							
Big Lake 54	28 13 32.480	140 20 21.472	Patchawarra Fm	2707.5	3129.4							
Big Lake 55	28 13 39.887	140 17 37.044	No Permian									
Big Lake 56	28 13 51.292	140 17 26.628	Toolachee Fm	2261.6	2341.8							
Big Lake 56	28 13 51.292	140 17 26.628	Daralingie Fm	2341.8	2379.0							
Big Lake 56	28 13 51.292	140 17 26.628	Roseneath Sh	2379.0	2426.2							
Big Lake 56	28 13 51.292	140 17 26.628	Epsilon Fm	2426.2	2503.0							
Big Lake 56	28 13 51.292	140 17 26.628	Murteree Sh	2503.0	2557.9							
Big Lake 56	28 13 51.292	140 17 26.628	Patchawarra Fm	2557.9	2894.4							
Big Lake 57	28 13 50.503	140 17 27.158	No Permian									
Big Lake 58	28 13 44.000	140 17 40.300	No Permian									
Big Lake 59	28 13 42.670	140 17 41.720	No Permian									
Big Lake 60	28 12 16.190	140 19 13.217	Toolachee Fm	2281.4	2367.4							
Big Lake 60	28 12 16.190	140 19 13.217	Daralingie Fm	2367.4	2392.1							
Big Lake 60	28 12 16.190	140 19 13.217	Roseneath Sh	2392.1	2436.3							
Big Lake 60	28 12 16.190	140 19 13.217	Epsilon Fm	2436.3	2516.4							
Big Lake 60	28 12 16.190	140 19 13.217	Murteree Sh	2516.4	2566.4							
Big Lake 60	28 12 16.190	140 19 13.217	Patchawarra Fm	2566.4	2877.6							
Big Lake 61	28 13 40.483	140 17 00.266	No Permian									
Big Lake 62	28 16 37.170	140 14 12.054	No Permian									
Big Lake 63	28 13 30.260	140 17 31.730	No Permian									
Bimbaya 1	27 33 13.650	140 24 51.210	Toolachee Fm	2634.7	2669.7							
Bimbaya 1	27 33 13.650	140 24 51.210	Patchawarra Fm	2669.7	2762.7							
Bimbaya 2	27 32 51.430	140 25 13.710	Toolachee Fm	2670.7	2709.7							
Bimbaya 2	27 32 51.430	140 25 13.710	Patchawarra Fm	2709.7	2811.5							
Bimbaya 3	27 33 32.170	140 24 35.630	Patchawarra Fm	2741.4	2802.1		0	0	0	0	0	0
Bindah 1	27 48 50.323	140 04 07.506	Toolachee Fm	2452.7	2503.0							
Bindah 1	27 48 50.323	140 04 07.506	Epsilon Fm	2503.0	2505.5							
Bindah 1	27 48 50.323	140 04 07.506	Murteree Sh	2505.5	2540.5							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0	2	15.6				
		0	1	1.8				
		0	0					
		0	1	2.8				
		0	0					
		0	3	37.2				
		0	3	23.4				
		0	2	3.6				
		0	0					
		1	1	2.8				
		0	0					
		0	5	62				
		0	2	15.6				
		0	2	3.6				
		0	0					
		0	1	2.8				
		0	0					
		0	3	37.2				
		0	1	7.8				
		0	2	3.6				
		0	0					
		0	1	2.8				
		0	0					
		0	2	24.8				
		1	2	15.6				
		0	1	1.8				
		0	0					
		0	2	5.6				
		0	0					
		0	2	24.8				
		0	3	23.4				
		0	1	12.4				
		0	3	23.4				
		0	1	12.4				
0	1		1	12.4				
		0	2	15.6				
		0	1	2.8				
		0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Bindah 1	27 48 50.323	140 04 07.506	Patchawarra Fm	2540.5	2912.1							
Bobs Well 1	28 21 25.110	140 06 28.440	Toolachee Fm	2209.8	2278.1		0	0	0	0	0	0
Bobs Well 1	28 21 25.110	140 06 28.440	Daralingie Fm	2301.5	2345.7		0	0	0	0	0	0
Bobs Well 1	28 21 25.110	140 06 28.440	Epsilon Fm	2433.5	2496.9		0	0	0	0	0	0
Bobs Well 1	28 21 25.110	140 06 28.440	Murteree Sh	2511.2	2574.3		0	0	0	0	0	0
Bobs Well 1	28 21 25.110	140 06 28.440	Patchawarra Fm	2583.5	2668.2		0	0	0	0	0	0
Boobook 1	28 18 49.660	140 06 43.945	Toolachee Fm	2204.0	2304.0		0	0	0	0	0	0
Boobook 1	28 18 49.660	140 06 43.945	Daralingie Fm	2347.6	2347.6		0	0	0	0	0	0
Boobook 1	28 18 49.660	140 06 43.945	Patchawarra Fm	2607.6	2679.2		0	0	0	0	0	0
Bookabourdie 1	27 32 18.830	140 28 56.030	Patchawarra Fm	2711.8	2825.2		0	0	0	0	0	0
Bookabourdie 1	27 32 18.830	140 28 56.030	Patchawarra Fm	2711.8	2825.2		0	0	0	0	0	0
Bookabourdie 2	27 31 46.350	140 28 44.450	Toolachee Fm	2669.4	2700.2							
Bookabourdie 2	27 31 46.350	140 28 44.450	Patchawarra Fm	2700.2	2851.7							
Bookabourdie 3	27 32 01.240	140 29 24.170	Toolachee Fm	2688.3	2734.1							
Bookabourdie 3	27 32 01.240	140 29 24.170	Patchawarra Fm	2734.1	2902.9							
Bookabourdie 4	27 30 59.230	140 27 32.970	Toolachee Fm	2720.6	2762.4							
Bookabourdie 4	27 30 59.230	140 27 32.970	Patchawarra Fm	2762.4	3690.6							
Bookabourdie 5	27 32 08.520	140 28 52.000	No Permian									
Bookabourdie 7	27 32 19.320	140 29 49.830	Toolachee Fm	2713.6	2766.4	1	0	0	0	0	0	0
Bookabourdie 7	27 32 19.320	140 29 49.830	Patchawarra Fm	2766.4	3022.4	1.1	0	0	0	0	0	0
Bookabourdie 8	27 31 30.840	140 28 09.060	Toolachee Fm	2662.7	2695.3							
Bookabourdie 8	27 31 30.840	140 28 09.060	Patchawarra Fm	2695.3	2792.6							
Bookabourdie 9	27 32 06.100	140 28 35.650	Toolachee Fm	2657.9	2682.8							
Bookabourdie 9	27 32 06.100	140 28 35.650	Patchawarra Fm	2682.8	2826.1							
Bookabourdie 10	27 30 45.900	140 26 30.270	Toolachee Fm	2799.3	2820.6							
Bookabourdie 10	27 30 45.900	140 26 30.270	Patchawarra Fm	2820.6	2907.8							
Bookabourdie 11	27 30 49.314	140 26 42.197	Toolachee Fm	2781.3	2803.2	1.1	0	0	0	2	0	0
Bookabourdie 11	27 30 49.314	140 26 42.197	Patchawarra Fm	2803.2	2916.0	1.3	0	0	0	0	0	0
Boongala 1	28 13 57.951	140 51 50.801	Toolachee Fm	2084.5	2201.9							
Boongala 1	28 13 57.951	140 51 50.801	Daralingie Fm	2201.9	2213.8							
Boongala 1	28 13 57.951	140 51 50.801	Roseneath Sh	2213.8	2270.5							
Boongala 1	28 13 57.951	140 51 50.801	Epsilon Fm	2270.5	2320.4							
Boongala 1	28 13 57.951	140 51 50.801	Murteree Sh	2320.4	2370.1							
Boongala 1	28 13 57.951	140 51 50.801	Patchawarra Fm	2370.1	2655.4							
Boxwood 2	28 30 48.180	139 50 26.700	Epsilon Fm	1691.0	1707.8	0.8						
Boxwood 2	28 30 48.180	139 50 26.700	Murteree Sh	1707.8	1732.5	0.98	0	0	0	0	0	0
Boxwood 2	28 30 48.180	139 50 26.700	Patchawarra Fm	1732.5	1741.6	0.92	0	0	0	0	0	0
Brolga 2	27 35 22.420	140 02 20.670	Toolachee Fm	2649.3	2678.6							
Brolga 2	27 35 22.420	140 02 20.670	Epsilon Fm	2678.6	2690.5							
Brolga 2	27 35 22.420	140 02 20.670	Murteree Sh	2690.5	2699.9							
Brolga 2	27 35 22.420	140 02 20.670	Patchawarra Fm	2699.9	2923.6							
Brolga 3	27 35 08.861	140 00 23.794	Patchawarra Fm	2776.4	2776.4		0	0	0	0	0	0
Brolga 4	27 35 14.890	140 01 04.996	Toolachee Fm	2639.0	2671.9							
Brolga 4	27 35 14.890	140 01 04.996	Epsilon Fm	2671.9	2684.1							
Brolga 4	27 35 14.890	140 01 04.996	Murteree Sh	2684.1	2692.6							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			3	3	37.2				
0				2	15.6			Wood	
0		1		1	1.8			Wood	
0				1	2.8			Wood	
0				0				Wood	
0		1		3	37.2			Wood	
0				1	7.8			Wood	
0				1	1.8			Wood	
0				2	24.8			Wood	
0			3.5	4	49.6			Wood	
0				4	49.6			Wood	
			0	2	15.6				
			0	2	24.8				
			0	2	15.6				
			1	3	37.2				
			0	2	15.6				
			0	1	12.4				
0			0	2	15.6			Wood	
0			0	1	12.4			Wood	
			0	2	15.6				
			0	1	12.4				
			0	2	15.6				
			0	2	24.8				
			0	3	23.4				
			0	1	12.4				
2			0	1	7.8				
0			0	1	12.4				
			0	4	31.2				
			0	1	1.8				
			0	0					
			0	1	2.8				
			0	0					
			1	5	62				
0				0					
0				0	0				
			0	0	0				
			0	0	0				
			0	0					
			1	3	37.2				
0		1	1.5	2	24.8			Benson	
			1	3	23.4				
			0	0	0				
			0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Brolga 4	27 35 14.890	140 01 04.996	Patchawarra Fm	2692.6	2888.0							
Brumby 2	28 22 57.740	140 57 28.180	Toolachee Fm	1857.1	1990.3							
Brumby 2	28 22 57.740	140 57 28.180	Daralingie Fm	1990.3	2032.4							
Brumby 2	28 22 57.740	140 57 28.180	Roseneath Sh	2032.4	2114.7							
Brumby 2	28 22 57.740	140 57 28.180	Epsilon Fm	2114.7	2165.3							
Brumby 2	28 22 57.740	140 57 28.180	Murteree Sh	2165.3	2222.0							
Brumby 2	28 22 57.740	140 57 28.180	Patchawarra Fm	2222.0	2344.5							
Brumby 3	28 25 13.660	140 58 20.480	Toolachee Fm	1843.1	2005.6	1.05	0	0	0	0	0	0
Brumby 3	28 25 13.660	140 58 20.480	Daralingie Fm	2005.6	2030.9	1.1	0	0	0	0	0	0
Brumby 3	28 25 13.660	140 58 20.480	Roseneath Sh	2030.9	2120.5		0	0	0	0	0	0
Brumby 3	28 25 13.660	140 58 20.480	Epsilon Fm	2120.5	2176.9	1.13	0	0	0	0	0	0
Brumby 3	28 25 13.660	140 58 20.480	Murteree Sh	2176.9	2239.1		0	0	0	0	0	0
Brumby 3	28 25 13.660	140 58 20.480	Patchawarra Fm	2239.1	2407.3	1.35	0	0	0	0	0	0
Brumby 4	28 22 45.820	140 57 49.470	Toolachee Fm	1847.1	2008.6	1.1						
Brumby 4	28 22 45.820	140 57 49.470	Daralingie Fm	2008.6	2025.1	1.1						
Brumby 4	28 22 45.820	140 57 49.470	Roseneath Sh	2025.1	2103.7							
Brumby 4	28 22 45.820	140 57 49.470	Epsilon Fm	2103.7	2152.8	1.2						
Brumby 4	28 22 45.820	140 57 49.470	Murteree Sh	2152.8	2205.5							
Brumby 4	28 22 45.820	140 57 49.470	Patchawarra Fm	2205.5	2303.7	1.4						
Brumby 5	28 24 04.137	140 57 59.749	Toolachee Fm	1844.0	2008.9							
Brumby 5	28 24 04.137	140 57 59.749	Daralingie Fm	2008.9	2030.3							
Brumby 5	28 24 04.137	140 57 59.749	Roseneath Sh	2030.3	2100.7							
Brumby 5	28 24 04.137	140 57 59.749	Epsilon Fm	2100.7	2173.8							
Brumby 5	28 24 04.137	140 57 59.749	Murteree Sh	2173.8	2223.5							
Brumby 5	28 24 04.137	140 57 59.749	Patchawarra Fm	2223.5	2345.7							
Brumby 7	28 25 46.309	140 59 51.038	Toolachee Fm	1823.9	1980.6							
Brumby 7	28 25 46.309	140 59 51.038	Daralingie Fm	1980.6	2010.2							
Brumby 7	28 25 46.309	140 59 51.038	Roseneath Sh	2010.2	2085.4							
Brumby 7	28 25 46.309	140 59 51.038	Epsilon Fm	2085.4	2154.3							
Brumby 7	28 25 46.309	140 59 51.038	Murteree Sh	2154.3	2210.4							
Brumby 7	28 25 46.309	140 59 51.038	Patchawarra Fm	2210.4	2370.1							
Brumby 9	28 23 33.884	140 59 08.258	Toolachee Fm	1853.2	2018.4							
Brumby 9	28 23 33.884	140 59 08.258	Daralingie Fm	2018.4	2032.4							
Brumby 9	28 23 33.884	140 59 08.258	Roseneath Sh	2032.4	2112.3							
Brumby 9	28 23 33.884	140 59 08.258	Epsilon Fm	2112.3	2163.5							
Brumby 9	28 23 33.884	140 59 08.258	Murteree Sh	2163.5	2215.9							
Brumby 9	28 23 33.884	140 59 08.258	Patchawarra Fm	2215.9	2325.6							
Brumby 10	28 25 08.250	140 59 59.700	No Permian									
Buckinna 1	28 23 54.310	140 28 49.150	No Permian									
Buckinna 2	28 24 02.430	140 28 29.960	No Permian									
Bulyeroo 1	27 50 21.933	140 34 38.090	Toolachee Fm	2718.8	2813.6							
Bulyeroo 1	27 50 21.933	140 34 38.090	Daralingie Fm	2813.6	2914.8							
Bulyeroo 1	27 50 21.933	140 34 38.090	Roseneath Sh	2914.8	2974.8							
Bulyeroo 1	27 50 21.933	140 34 38.090	Epsilon Fm	2974.8	3097.1							
Bulyeroo 1	27 50 21.933	140 34 38.090	Murteree Sh	3097.1	3167.2							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			1	3	37.2				
			0	2	15.6				
			0	2	3.6				
			0	0					
			0	1	2.8				
			0	0					
			1	1	12.4				
1			1	3	23.4	5	5		
0			1	3	5.4	2	2		
0			0	0					
0			1	3	8.4	5	5		
0			0	0					
0			0	2	24.8	5	5		
			0	2	15.6				
			0	1	1.8				
			0	0					
			0	1	2.8				
			0	1					
			0	3	23.4				
			0	2	3.6				
			0	1					
			0	1	2.8				
			0	0					
			0	2	24.8				
			0	2	15.6				
			0	2	3.6				
			0	0					
			0	1	2.8				
			0	0					
			0	2	24.8				
			0	4	31.2				
			0	1	1.8				
			0	0					
			0	1	2.8				
			0	0					
			0	2	24.8				
			0	2	15.6				
			0	1	1.8				
			0	0					
			0	3	8.4				
			0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Bulyeroo 1	27 50 21.933	140 34 38.090	Patchawarra Fm	3167.2	3176.3							
Bungee 1	28 29 03.200	140 07 59.900	Toolachee Fm	1902.0	1956.8	0.67	0	0	0	0	1	0
Bungee 1	28 29 03.200	140 07 59.900	Roseneath Sh	1984.2	1993.4	0.66	1	0	0	0	1	0
Bungee 1	28 29 03.200	140 07 59.900	Epsilon Fm	2066.5	2084.8	0.75	0	1	0	0	1	0
Bungee 1	28 29 03.200	140 07 59.900	Murteree Sh	2112.3	2121.4	0.76	0	0	0	0	1	0
Bungee 1	28 29 03.200	140 07 59.900	Patchawarra Fm	2194.6	2423.2	1.07	1	0	0	0	1	0
Bungee 2	28 29 24.000	140 08 43.475	Toolachee Fm	1899.5	1949.5							
Bungee 2	28 29 24.000	140 08 43.475	Daralingie Fm	1949.5	1980.6							
Bungee 2	28 29 24.000	140 08 43.475	Roseneath Sh	1980.6	2027.5							
Bungee 2	28 29 24.000	140 08 43.475	Epsilon Fm	2027.5	2092.8							
Bungee 2	28 29 24.000	140 08 43.475	Murteree Sh	2092.8	2145.2							
Bungee 2	28 29 24.000	140 08 43.475	Patchawarra Fm	2145.2	2492.7							
Burke 1	28 07 45.67	140 57 17.14	Toolachee Fm	2130.6	2218.3							
Burke 1	28 07 45.67	140 57 17.14	Daralingie Fm	2218.3	2242.1							
Burke 1	28 07 45.67	140 57 17.14	Roseneath Sh	2242.1	2292.1							
Burke 1	28 07 45.67	140 57 17.14	Epsilon Fm	2292.1	2340.6							
Burke 1	28 07 45.67	140 57 17.14	Murteree Sh	2340.6	2386.0							
Burke 1	28 07 45.67	140 57 17.14	Patchawarra Fm	2386.0	2525.3							
Burke 2	28 07 41.560	140 55 55.500	No Permian									
Burke 3	28 07 24.670	140 55 50.460	Toolachee Fm	2134.5	2216.8							
Burke 3	28 07 24.670	140 55 50.460	Daralingie Fm	2216.8	2252.5							
Burke 3	28 07 24.670	140 55 50.460	Roseneath Sh	2252.5	2307.6							
Burke 3	28 07 24.670	140 55 50.460	Epsilon Fm	2307.6	2357.3							
Burke 3	28 07 24.670	140 55 50.460	Murteree Sh	2357.3	2406.1							
Burke 3	28 07 24.670	140 55 50.460	Patchawarra Fm	2406.1	2424.4							
Burke 4	28 07 36.460	140 56 32.310	Toolachee Fm	2116.2	2192.1							
Burke 4	28 07 36.460	140 56 32.310	Daralingie Fm	2192.1	2226.3							
Burke 4	28 07 36.460	140 56 32.310	Roseneath Sh	2226.3	2282.3							
Burke 4	28 07 36.460	140 56 32.310	Epsilon Fm	2282.3	2330.5							
Burke 4	28 07 36.460	140 56 32.310	Murteree Sh	2330.5	2377.4							
Burke 4	28 07 36.460	140 56 32.310	Patchawarra Fm	2377.4	2534.4							
Burke 5	28 07 12.600	140 56 58.900	Toolachee Fm	2137.9	2218.3							
Burke 5	28 07 12.600	140 56 58.900	Daralingie Fm	2218.3	2259.2							
Burke 5	28 07 12.600	140 56 58.900	Roseneath Sh	2259.2	2312.2							
Burke 5	28 07 12.600	140 56 58.900	Epsilon Fm	2312.2	2368.3							
Burke 5	28 07 12.600	140 56 58.900	Murteree Sh	2368.3	2411.9							
Burke 5	28 07 12.600	140 56 58.900	Patchawarra Fm	2411.9	2554.8							
Burke 6	28 08 12.861	140 57 25.322	Toolachee Fm	2128.7	2205.5							
Burke 6	28 08 12.861	140 57 25.322	Daralingie Fm	2205.5	2254.6							
Burke 6	28 08 12.861	140 57 25.322	Roseneath Sh	2254.6	2301.2							
Burke 6	28 08 12.861	140 57 25.322	Epsilon Fm	2301.2	2355.2							
Burke 6	28 08 12.861	140 57 25.322	Murteree Sh	2355.2	2402.4							
Burke 6	28 08 12.861	140 57 25.322	Patchawarra Fm	2402.4	2525.3							
Burley 1	27 48 16.19	140 39 45.95	Toolachee Fm	2662.1	2827.6							
Burley 1	27 48 16.19	140 39 45.95	Daralingie Fm	2827.6	2922.1							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0	1	12.4				
1			2	3	23.4		5	Wood	
2			0	0			5	Wood	
2			2	2	5.6		5	Wood	
1			0	0			5	Wood	
2			3	3	37.2		4	Wood	
			0	2	15.6				
			0	2	3.6				
			0	0					
			0	1	2.8				
			0	0					
			1	4	49.6				
			0	1	7.8				
			0	0	0				
			0	0					
			0	0	0				
			0	0					
			0	2	24.8				
			0	2	15.6				
			0	0	0				
			0	0					
			0	1	2.8				
			0	0					
			0	3	37.2				
			0	3	23.4				
			0	0	0				
			0	0					
			0	0	0				
			0	0					
			0	2	24.8				
			0	2	15.6				
			0	0	0				
			0	0					
			0	0	0				
			0	0					
			0	1	12.4				
			0	3	23.4				
			0	0	0				
			0	0					
			0	0	0				
			0	0					
			0	2	24.8				
			0						
			0						

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Burley 1	27 48 16.19	140 39 45.95	Roseneath Sh	2922.1	2973.0							
Burley 1	27 48 16.19	140 39 45.95	Epsilon Fm	2973.0	3111.7							
Burley 1	27 48 16.19	140 39 45.95	Murteree Sh	3111.7	3191.0							
Burley 1	27 48 16.19	140 39 45.95	Patchawarra Fm	3191.0	3543.9							
Burley 2	27 47 58.340	140 38 22.480	Toolachee Fm	2672.5	2829.5	4.52						
Burley 2	27 47 58.340	140 38 22.480	Daralingie Fm	2829.5	2918.8	4.1						
Burley 2	27 47 58.340	140 38 22.480	Roseneath Sh	2918.8	2978.2	3.83						
Burley 2	27 47 58.340	140 38 22.480	Epsilon Fm	2978.2	3117.8	4.25						
Burley 2	27 47 58.340	140 38 22.480	Murteree Sh	3117.8	3196.4							
Burley 2	27 47 58.340	140 38 22.480	Patchawarra Fm	3196.4	3589.9	7.89						
Burley 3	27 48 16.816	140 39 43.348	Toolachee Fm	2667.9	2819.7							
Burley 3	27 48 16.816	140 39 43.348	Daralingie Fm	2819.7	2918.5							
Burley 3	27 48 16.816	140 39 43.348	Roseneath Sh	2918.5	2978.2							
Burley 3	27 48 16.816	140 39 43.348	Epsilon Fm	2978.2	3094.6							
Burruna 1	28 33 18.030	140 45 02.900	Toolachee Fm	1661.1	1691.6	0.76	0	0	0	0	0	0
Burruna 1	28 33 18.030	140 45 02.900	Daralingie Fm	1676.4	1701.4	0.9						
Burruna 1	28 33 18.030	140 45 02.900	Roseneath Sh	1722.1	1722.1	0.81	0	0	0	0	0	0
Burruna 1	28 33 18.030	140 45 02.900	Epsilon Fm	1752.6	1752.6	0.79	0	0	0	0	0	0
Burruna 1	28 33 18.030	140 45 02.900	Murteree Sh	1783.0	1813.6	0.81	0	0	0	0	0	0
Cabernet 1	28 30 50.048	140 10 30.066	Roseneath Sh	1929.1	1975.7		1	1	1	0	0	0
Cabernet 1	28 30 50.048	140 10 30.066	Daralingie Fm	1939.1	1929.1		1	1	0	0	0	0
Cabernet 1	28 30 50.048	140 10 30.066	Epsilon Fm	1975.7	2036.4		0	1	1	0	0	0
Cabernet 1	28 30 50.048	140 10 30.066	Patchawarra Fm	2086.4	2405.2		0	0	0	1	0	0
Cabernet 2	28 30 36.880	140 11 08.150	Toolachee Fm	1870.9	1906.2		0	0	0	0	0	0
Cabernet 2	28 30 36.880	140 11 08.150	Daralingie Fm	1906.2	1924.2		0	0	0	0	0	0
Cabernet 2	28 30 36.880	140 11 08.150	Roseneath Sh	1924.2	1956.8		0	0	0	0	0	0
Cabernet 2	28 30 36.880	140 11 08.150	Epsilon Fm	1956.8	2029.1		0	0	0	0	0	0
Cabernet 2	28 30 36.880	140 11 08.150	Murteree Sh	2029.1	2096.4		0	0	0	0	0	0
Cabernet 2	28 30 36.880	140 11 08.150	Patchawarra Fm	2096.4	2402.4	1	0	1	0	1	0	0
Cactus 1	27 40 44.732	140 14 45.721	Toolachee Fm	2363.1	2363.1		0	0	1	0	0	0
Caladan 1	28 13 09.687	139 55 20.500	Toolachee Fm	1987.3	1993.4		1	1	0	0	0	0
Caladan 1	28 13 09.687	139 55 20.500	Roseneath Sh	1997.7	1997.7		0	0	0	0	0	0
Caladan 1	28 13 09.687	139 55 20.500	Patchawarra Fm	2081.8	2128.7		0	0	0	0	0	0
Caladan 2	28 13 27.303	139 56 27.744	Toolachee Fm	1966.0	1999.8							
Caladan 2	28 13 27.303	139 56 27.744	Daralingie Fm	1999.8	2002.5							
Caladan 2	28 13 27.303	139 56 27.744	Roseneath Sh	2002.5	2049.8							
Caladan 2	28 13 27.303	139 56 27.744	Epsilon Fm	2049.8	2065.9							
Caladan 2	28 13 27.303	139 56 27.744	Murteree Sh	2065.9	2096.1							
Caladan 2	28 13 27.303	139 56 27.744	Patchawarra Fm	2096.1	2124.5							
Caladan Northeast 1	28 12 13.785	139 56 36.409	Toolachee Fm	1998.0	2000.1		0	0	0	0	0	0
Caladan Northeast 1	28 12 13.785	139 56 36.409	Roseneath Sh	2041.2	2041.2		1	0	0	0	0	0
Caladan Northeast 1	28 12 13.785	139 56 36.409	Patchawarra Fm	2146.4	2158.9		0	0	1	0	0	1
Calamia West 1	28 30 19.980	140 16 05.290	No Permian									
Callabonna 1	27 33 20.201	139 43 17.027	Patchawarra Fm	2191.8	2356.1	0.82	0	0	0	0	0	0
Caraka 1	28 16 35.115	140 44 21.569	Toolachee Fm	2069.0	2137.9		0	0	0	0	0	0

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0						
		0						
		0						
		0						
		0	4	31.2	1	1		
		0	1	1.8	4	5		
		0	1		5	5		
		0	1	2.8	5	5		
		0	0					
		0	2	24.8	5	5		
		0	1	7.8				graphitic
		0	1	1.8				
		0	0					
		0	1	2.8				
0		1	2	15.6		5		
0		0	0			5		
0		0	1	2.8		5		
0		0	0			4		
3		0	0				Wood	
2		0	1	1.8			Wood	
2		0	1	2.8			Wood	
1		0	1	12.4			Wood	
0		0	2	15.6			Wood	
0		0	0	0			Wood	
0		0	0				Wood	
0		0	1	2.8			Wood	
0		0	0				Wood	
2		0	2	24.8			Wood	
1		1	3	23.4			Wood, Benson	
2		0	2	15.6			Wood, Benson	
0		0	0				Wood, Benson	
0		0	2	24.8			Wood, Benson	
		0	3	23.4				
		0	0					
		0	2	5.6				
		0	0					
		0	2	24.8				
0		0	3	23.4			Benson. Wood	
1		0	0				Benson. Wood	
2		4	2	24.8			Benson. Wood	
0		1	2	24.8		5	Marshall, Wood	
0		0	3	23.4			Wood	

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Caraka 1	28 16 35.115	140 44 21.569	Roseneath Sh	2150.7	2154.9		0	0	0	0	0	0
Caraka 1	28 16 35.115	140 44 21.569	Epsilon Fm	2216.5	2216.5		0	0	0	0	0	0
Caraway 1	27 02 34.480	140 40 30.074	No Permian									
Cardam 1	27 34 36.743	140 08 59.596	Toolachee Fm	2781.9	2826.1							
Cardam 1	27 34 36.743	140 08 59.596	Epsilon Fm	2826.1	2851.4							
Cardam 1	27 34 36.743	140 08 59.596	Murteree Sh	2851.4	2892.9							
Cardam 1	27 34 36.743	140 08 59.596	Patchawarra Fm	2892.9	3113.2							
Carmina 1	28 27 24.295	140 21 45.242	No Permian									
CBH 2	29 34 50.000	139 30 00.000	No Permian									
Charo 1	27 26 46.180	139 43 43.330	No Permian									
Chelten North 1	28 10 49.881	139 31 54.615	No Permian									
Cherri 1	29 07 21.000	140 12 45	Epsilon Fm	1210.1	1255.8							
Cherri 1	29 07 21.000	140 12 45	Murteree Sh	1255.8	1275.3							
Cherri 1	29 07 21.000	140 12 45	Patchawarra Fm	1275.3	1317.3		0	0	0	0	0	0
Chilcarrie 1	28 21 17.520	140 37 41.680	Toolachee Fm	1905.0	1981.2	0.85	0	0	0	0	0	0
Chilcarrie 1	28 21 17.520	140 37 41.680	Roseneath Sh	2008.6	2011.7	0.88	0	0	0	0	1	0
Chilcarrie 1	28 21 17.520	140 37 41.680	Epsilon Fm	2045.2	2048.3	0.91	0	0	0	0	0	0
Chilcarrie 1	28 21 17.520	140 37 41.680	Murteree Sh	2090.9	2094.0	0.95	0	0	0	0	0	0
Chilcarrie 1	28 21 17.520	140 37 41.680	Patchawarra Fm	2090.9	2228.1	1.01	0	0	0	0	0	0
Childie 1	28 20 31.790	140 35 54.960	Toolachee Fm	1835.8	1862.3		0	0	0	0	0	0
Childie 1	28 20 31.790	140 35 54.960	Murteree Sh	1968.4	1968.4		0	0	0	0	0	0
Childie 1	28 20 31.790	140 35 54.960	Patchawarra Fm	1982.4	2063.5		0	0	0	0	0	0
Cobbler 1	27 35 31.390	140 21 03.090	Toolachee Fm	2866.9	2924.3							
Cobbler 1	27 35 31.390	140 21 03.090	Epsilon Fm	2924.3	2962.4							
Cobbler 1	27 35 31.390	140 21 03.090	Murteree Sh	2962.4	3002.3							
Cobbler 1	27 35 31.390	140 21 03.090	Patchawarra Fm	3002.3	3024.8							
Cooba 1	27 47 47.447	140 02 24.286	Epsilon Fm	2607.9	2607.9		0	0	0	0	0	0
Cooba 1	27 47 47.447	140 02 24.286	Patchawarra Fm	2723.4	3016.6		0	1	0	0	0	0
Coobowie 1	28 32 26.190	140 57 20.880	No Permian									
Coochilara 1	28 13 09.870	140 52 02.320	Toolachee Fm	2093.7	2220.5	1.4						
Coochilara 1	28 13 09.870	140 52 02.320	Daralingie Fm	2220.5	2229.9							
Coochilara 1	28 13 09.870	140 52 02.320	Roseneath Sh	2229.9	2297.6							
Coochilara 1	28 13 09.870	140 52 02.320	Epsilon Fm	2297.6	2351.2	1.4						
Coochilara 1	28 13 09.870	140 52 02.320	Murteree Sh	2351.2	2406.1							
Coochilara 1	28 13 09.870	140 52 02.320	Patchawarra Fm	2406.1		2.2						
Coochilara 2	28 13 51.010	140 50 31.860	Toolachee Fm	2073.9	2192.7							
Coochilara 2	28 13 51.010	140 50 31.860	Daralingie Fm	2192.7	2196.4							
Coochilara 2	28 13 51.010	140 50 31.860	Roseneath Sh	2196.4	2250.6							
Coochilara 2	28 13 51.010	140 50 31.860	Epsilon Fm	2250.6	2301.5							
Coochilara 2	28 13 51.010	140 50 31.860	Murteree Sh	2301.5	2354.9							
Coochilara 2	28 13 51.010	140 50 31.860	Patchawarra Fm	2354.9	2687.7							
Cooloon 1	28 14 01.164	140 32 56.254	Toolachee Fm	2088.2	2176.0							
Cooloon 1	28 14 01.164	140 32 56.254	Roseneath Sh	2176.0	2191.8							
Cooloon 1	28 14 01.164	140 32 56.254	Epsilon Fm	2191.8	2246.7							
Cooloon 1	28 14 01.164	140 32 56.254	Murteree Sh	2246.7	2297.9							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			0	0				Wood	
0			0	3	8.4			Wood Benson	
			0	2	15.6				
			0	1	2.8				
			0	0					
			1	3	37.2				
0			0					Paten	
0			0	5	39		5		
1			0	1			5		
0			0	5	14		5		
0			0	5			0		
0			0	5	62		5		
0			0	3	23.4			Williams	
0			0	0				Williams	
0			0	3	37.2			Williams	
			1	4	31.2				
			0	2	5.6				
			0	0					
				1	12.4				
0				3	8.4			Wood	
1				4	49.6			Wood	
			1	2	15.6				
			0	0	0				
			2	1	2.8				
			0	0					
			0	2	24.8				
			0	2	15.6				
			0	0					
			0	2	5.6				
			0	0					

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Cooloon 1	28 14 01.164	140 32 56.254	Patchawarra Fm	2297.9	2623.7							
Cooloon South 1	28 15 29.162	140 34 05.476	No Permian									
Coonatie 2	27 28 20.540	140 20 22.780	Toolachee Fm	2837.7	2842.3	0.9	0	0	0	0	0	0
Coonatie 2	27 28 20.540	140 20 22.780	Epsilon Fm	2843.8	2895.0	1.1						
Coonatie 2	27 28 20.540	140 20 22.780	Murteree Sh	2895.0	2906.0							
Coonatie 2	27 28 20.540	140 20 22.780	Patchawarra Fm	2906.0		1.2						
Coonatie 3	27 28 43.110	140 19 10.470	Toolachee Fm	2903.2	2941.3							
Coonatie 3	27 28 43.110	140 19 10.470	Epsilon Fm	2941.3	2987.3							
Coonatie 3	27 28 43.110	140 19 10.470	Murteree Sh	2987.3	2997.1							
Coonatie 3	27 28 43.110	140 19 10.470	Patchawarra Fm	2997.1	3151.0							
Coonatie 4	27 27 56.534	140 21 00.173	Toolachee Fm	2897.4	2945.0							
Coonatie 4	27 27 56.534	140 21 00.173	Epsilon Fm	2945.0	2984.6							
Coonatie 4	27 27 56.534	140 21 00.173	Murteree Sh	2984.6	3010.8							
Coonatie 4	27 27 56.534	140 21 00.173	Patchawarra Fm	3010.8	3130.9							
Coopers Creek 2	27 48 21.783	140 00 40.180	Toolachee Fm	2550.3	2591.4		0	0	0	0	0	0
Coopers Creek 2	27 48 21.783	140 00 40.180	Epsilon Fm	2618.5	2629.5		0	1	0	0	0	0
Coopers Creek 2	27 48 21.783	140 00 40.180	Patchawarra Fm	2801.1	3028.8		0	0	0	1	0	0
Coopers Creek 2	27 48 21.783	140 00 40.180	Patchawarra Fm	2801.1	3028.8		0	0	0	1	0	0
Corkwood 1	28 01 09.850	140 48 04.660	Toolachee Fm	1904.1	1951.3	1.0						
Corkwood 1	28 01 09.850	140 48 04.660	Patchawarra Fm	1951.3								
Correa 1	27 47 24.079	140 11 25.690	Toolachee Fm	2621.0	2621.0		0	0	1	0	0	0
Correa 1	27 47 24.079	140 11 25.690	Epsilon Fm	2623.4	2625.5		0	0	1	0	0	0
Correa 1	27 47 24.079	140 11 25.690	Murteree Sh	2637.7	2637.7		0	0	0	0	0	0
Correa 1	27 47 24.079	140 11 25.690	Patchawarra Fm	2661.5	2855.7		0	1	1	0	0	0
Coruna 1	27 09 43.828	140 19 06.261	Toolachee Fm	2573.4	2672.5							
Coruna 1	27 09 43.828	140 19 06.261	Epsilon Fm	2672.5	2698.7							
Coruna 1	27 09 43.828	140 19 06.261	Patchawarra Fm	2698.7	2803.2	0.9	0	0	0	0	0	0
Cowan 1	28 19 28.780	140 02 48.010	Toolachee Fm	1988.5	2020.8							
Cowan 1	28 19 28.780	140 02 48.010	Daralingie Fm	2020.8	2052.8	1.0						
Cowan 1	28 19 28.780	140 02 48.010	Roseneath Sh	2052.8	2088.8							
Cowan 1	28 19 28.780	140 02 48.010	Epsilon Fm	2088.8	2128.1	1.1						
Cowan 1	28 19 28.780	140 02 48.010	Murteree Sh	2128.1	2163.2	1.2						
Cowan 1	28 19 28.780	140 02 48.010	Patchawarra Fm	2163.2		1.0						
Cowan 2	28 19 54.674	140 02 20.828	Toolachee Fm	1992.5	2030.9		0	0	0	0	0	0
Cowan 2	28 19 54.674	140 02 20.828	Daralingie Fm	2041.2	2052.2		0	0	0	0	0	0
Cowan 2	28 19 54.674	140 02 20.828	Epsilon Fm	2134.8	2162.9		0	0	0	0	0	0
Cowan 2	28 19 54.674	140 02 20.828	Patchawarra Fm	2250.3	2254.3		0	0	0	0	0	0
Cowan 3	28 19 05.281	140 02 31.087	Toolachee Fm	2030.6	2075.4	0.85	0	0	0	0	0	0
Cowan 3	28 19 05.281	140 02 31.087	Daralingie Fm	2075.4	2107.4	0.85	0	0	0	0	0	0
Cowan 3	28 19 05.281	140 02 31.087	Roseneath Sh	2107.4	2149.1		0	0	0	0	0	0
Cowan 3	28 19 05.281	140 02 31.087	Epsilon Fm	2149.1	2191.5		0	0	0	0	0	0
Cowan 3	28 19 05.281	140 02 31.087	Murteree Sh	2191.5	2233.6		0	0	0	0	0	0
Cowan 3	28 19 05.281	140 02 31.087	Patchawarra Fm	2233.6	2313.4	1.2	0	0	0	0	0	0
Cowan 4	28 19 39.256	140 03 10.800	Toolachee Fm	2028.7	2077.5							
Cowan 4	28 19 39.256	140 03 10.800	Daralingie Fm	2077.5	2111.0							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0	1	12.4				
0			4	31.2			Jones	
		1						
		0	5	39				
		0	3	8.4				
		0	0					
		0	4	49.6				
		0	3	23.4				
		0	4	11.2				
		0	0					
		0	3	37.2				
0			3	23.4			Wood, Benson	
1			2	5.6			Wood, Benson	
1		0.5	3	37.2			Wood, Benson	
1			3	37.2			Wood, Benson	
1			3	23.4			Benson, Wood	
1			3	8.4			Benson, Wood	
0			0				Benson, Wood	
2		1	4	49.6			Benson, Wood	
		0	1	7.8			Wood	
		0	0	0			Wood	
0		0	1	12.4			Wood	
0		0	4	31.2			Wood	
0		0	5	9			Wood	
0		0	4	11.2			Wood	
0		0	5	62			Wood	
0		0	4	31.2			Benson	
0		0	2	3.6			Benson	
0		0	0				Benson	
0		3	4	11.2			Benson	
0		0	0				Benson	
0		1	3	37.2			Benson	
		0	2	15.6				
		0	2	3.6				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Cowan 4	28 19 39.256	140 03 10.800	Roseneath Sh	2111.0	2141.5							
Cowan 4	28 19 39.256	140 03 10.800	Epsilon Fm	2141.5	2210.4							
Cowan 4	28 19 39.256	140 03 10.800	Murteree Sh	2210.4	2257.0							
Cowan 4	28 19 39.256	140 03 10.800	Patchawarra Fm	2257.0	2338.7							
Cowralli 1	27 52 38.410	140 01 02.490	Epsilon Fm	2634.4	2674.0	0.9	0	1	1	0	0	0
Cowralli 1	27 52 38.410	140 01 02.490	Patchawarra Fm	2728.0	2972.7	1.2	0	1	1	0	0	0
Cowralli 1	27 52 38.410	140 01 02.490	Patchawarra Fm	2728.0	2972.7	1.2	0	1	1	0	0	0
Cowralli 2	27 53 07.400	140 00 16.840	Toolachee Fm	2548.4	2603.0							
Cowralli 2	27 53 07.400	140 00 16.840	Daralingie Fm	2603.0	2611.5							
Cowralli 2	27 53 07.400	140 00 16.840	Roseneath Sh	2611.5	2624.6							
Cowralli 2	27 53 07.400	140 00 16.840	Epsilon Fm	2624.6	2693.8							
Cowralli 2	27 53 07.400	140 00 16.840	Murteree Sh	2693.8	2727.4							
Cowralli 2	27 53 07.400	140 00 16.840	Patchawarra Fm	2727.4	3171.4							
Cowralli 3	27 53 11.120	140 01 14.640	Toolachee Fm	2539.3	2604.5							
Cowralli 3	27 53 11.120	140 01 14.640	Daralingie Fm	2604.5	2614.3							
Cowralli 3	27 53 11.120	140 01 14.640	Roseneath Sh	2614.3	2632.3							
Cowralli 3	27 53 11.120	140 01 14.640	Epsilon Fm	2632.3	2692.3							
Cowralli 3	27 53 11.120	140 01 14.640	Murteree Sh	2692.3	2727.4							
Cowralli 3	27 53 11.120	140 01 14.640	Patchawarra Fm	2727.4	3209.5							
Crumpa 1	26 59 40.649	140 41 45.746	No Permian									
Cuttapirrie 1	27 14 24.400	140 21 24.200	Toolachee Fm	2757.2	2830.1	1.0						
Cuttapirrie 1	27 14 24.400	140 21 24.200	Epsilon Fm	2830.1	2865.1	1.0						
Cuttapirrie 1	27 14 24.400	140 21 24.200	Murteree Sh	2865.1	2874.9	1.1						
Cuttapirrie 1	27 14 24.400	140 21 24.200	Patchawarra Fm	2874.9		1.1						
Cuttapirrie 2	27 13 57.570	140 22 06.167	Toolachee Fm	2766.7	2841.3	1	0	0	1	0	0	1
Cuttapirrie 2	27 13 57.570	140 22 06.167	Epsilon Fm	2841.3	2877.0	1	0	0	1	0	0	0
Cuttapirrie 2	27 13 57.570	140 22 06.167	Murteree Sh	2877.0	2882.8	1	0	0	1	0	0	0
Cuttapirrie 2	27 13 57.570	140 22 06.167	Patchawarra Fm	2882.8	2957.8	1.1	0	0	0	0	0	0
Cuttapirrie 3	27 13 26.382	140 23 18.143	Toolachee Fm	2782.2	2860.9		0	0	0	0	0	0
Cuttapirrie 3	27 13 26.382	140 23 18.143	Epsilon Fm	2860.9	2907.8		0	1	1	0	0	0
Cuttapirrie 3	27 13 26.382	140 23 18.143	Murteree Sh	2907.8	2910.8		0	1	1	0	0	0
Cuttapirrie 3	27 13 26.382	140 23 18.143	Patchawarra Fm	2910.8	2985.2		0	1	1	0	0	0
Cuttapirrie 4	27 13 57.630	140 26 00.989	Toolachee Fm	2877.6	2966.0							
Cuttapirrie 4	27 13 57.630	140 26 00.989	Epsilon Fm	2966.0	2997.4							
Cuttapirrie 4	27 13 57.630	140 26 00.989	Murteree Sh	2997.4	3007.2							
Cuttapirrie 4	27 13 57.630	140 26 00.989	Patchawarra Fm	3007.2	3043.1							
Cuttapirrie 5	27 12 48.774	140 24 43.784	Patchawarra Fm	2996.8	3070.9							
Cuttapirrie 5	27 12 48.774	140 24 43.784	Epsilon Fm	3005.3	2996.8							
Cuttapirrie 5	27 12 48.774	140 24 43.784	Murteree Sh	3171.4	3005.3							
Daer 1	27 12 25.800	140 04 38.170	No Permian									
Daralingie 1	28 21 40.520	139 58 19.640	Roseneath Sh	1925.4	2121.1	1.0						
Daralingie 1	28 21 40.520	139 58 19.640	Daralingie Fm	1962.9	2029.4	0.9						
Daralingie 1	28 21 40.520	139 58 19.640	Patchawarra Fm	1988.8	1925.4	1.2						
Daralingie 1	28 21 40.520	139 58 19.640	Epsilon Fm	2029.4	2089.4	1.1						
Daralingie 1	28 21 40.520	139 58 19.640	Murteree Sh	2089.4	1988.8							

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0	0					
			1	0	0				
			0	0					
			0	2	24.8				
2				2	5.6			Jones, Wood	
2			1	2	24.8			Jones, Wood	
2				2	24.8			Jones, Wood	
			0	3	23.4				
			0	1	2.8				
			0	0					
			1.5	4	49.6				
			0	3	23.4				
			0	3	8.4				
			0	0					
			0	3	37.2				
2			0	3	23.4			Benson, Wood	
1			0	3	8.4			Benson, Wood	
1			0	0				Benson, Wood	
0			0	1	12.4			Benson, Wood	
0			1	3	23.4			Benson, Wood	
2			1	2	5.6			Benson, Wood	
2			0	0				Benson, Wood	
2			1	2	24.8			Benson, Wood	
			2	4	31.2				
			0	2	5.6				
			0	0					
			4	3	37.2				
			0	1	12.4				
			0	3	8.4				
			0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Daralingie 1	28 21 40.520	139 58 19.640	Toolachee Fm	2121.1		1.0						
Daralingie 4	28 18 51.780	139 58 49.070	Toolachee Fm	2006.2	2042.2							
Daralingie 4	28 18 51.780	139 58 49.070	Daralingie Fm	2042.2	2073.9							
Daralingie 4	28 18 51.780	139 58 49.070	Roseneath Sh	2073.9	2116.8							
Daralingie 4	28 18 51.780	139 58 49.070	Epsilon Fm	2116.8	2161.6							
Daralingie 4	28 18 51.780	139 58 49.070	Murteree Sh	2161.6	2203.7							
Daralingie 4	28 18 51.780	139 58 49.070	Patchawarra Fm	2203.7	2265.0							
Daralingie 5	28 22 27.600	139 58 31.780	Toolachee Fm	1887.9	1926.0	0.8						
Daralingie 5	28 22 27.600	139 58 31.780	Daralingie Fm	1926.0	1952.9							
Daralingie 5	28 22 27.600	139 58 31.780	Roseneath Sh	1952.9	1992.5							
Daralingie 5	28 22 27.600	139 58 31.780	Epsilon Fm	1992.5	2034.5	0.9						
Daralingie 5	28 22 27.600	139 58 31.780	Murteree Sh	2034.5	2071.1							
Daralingie 5	28 22 27.600	139 58 31.780	Patchawarra Fm	2071.1	2097.0	0.9						
Daralingie 6	28 22 03.780	139 56 42.380	Toolachee Fm	1950.7	1992.8							
Daralingie 6	28 22 03.780	139 56 42.380	Daralingie Fm	1992.8	2017.2							
Daralingie 6	28 22 03.780	139 56 42.380	Roseneath Sh	2017.2	2065.3							
Daralingie 6	28 22 03.780	139 56 42.380	Epsilon Fm	2065.3	2108.3							
Daralingie 6	28 22 03.780	139 56 42.380	Murteree Sh	2108.3	2147.3							
Daralingie 6	28 22 03.780	139 56 42.380	Patchawarra Fm	2147.3	2202.8							
Daralingie 7	28 21 05.630	139 59 24.540	Toolachee Fm	1966.0	2006.8							
Daralingie 7	28 21 05.630	139 59 24.540	Daralingie Fm	2006.8	2035.1							
Daralingie 7	28 21 05.630	139 59 24.540	Roseneath Sh	2035.1	2079.0							
Daralingie 7	28 21 05.630	139 59 24.540	Epsilon Fm	2079.0	2129.3							
Daralingie 7	28 21 05.630	139 59 24.540	Murteree Sh	2129.3	2173.8							
Daralingie 7	28 21 05.630	139 59 24.540	Patchawarra Fm	2173.8	2266.5							
Daralingie 8	28 21 13.860	140 00 35.170	Toolachee Fm	1959.3	2005.6							
Daralingie 8	28 21 13.860	140 00 35.170	Daralingie Fm	2005.6	2035.1							
Daralingie 8	28 21 13.860	140 00 35.170	Roseneath Sh	2035.1	2072.9							
Daralingie 8	28 21 13.860	140 00 35.170	Epsilon Fm	2072.9	2126.9							
Daralingie 8	28 21 13.860	140 00 35.170	Murteree Sh	2126.9	2171.4							
Daralingie 8	28 21 13.860	140 00 35.170	Patchawarra Fm	2171.4	2236.0							
Daralingie 9	28 22 52.550	139 57 19.220	Toolachee Fm	1948.9	1993.1							
Daralingie 9	28 22 52.550	139 57 19.220	Daralingie Fm	1993.1	2021.4							
Daralingie 9	28 22 52.550	139 57 19.220	Roseneath Sh	2021.4	2071.4							
Daralingie 9	28 22 52.550	139 57 19.220	Epsilon Fm	2071.4	2124.5							
Daralingie 9	28 22 52.550	139 57 19.220	Murteree Sh	2124.5	2172.3							
Daralingie 9	28 22 52.550	139 57 19.220	Patchawarra Fm	2172.3	2292.7							
Daralingie 10	28 22 05.320	139 59 52.250	Toolachee Fm	1941.3	1992.2							
Daralingie 10	28 22 05.320	139 59 52.250	Daralingie Fm	1992.2	2026.9							
Daralingie 10	28 22 05.320	139 59 52.250	Roseneath Sh	2026.9	2069.6							
Daralingie 10	28 22 05.320	139 59 52.250	Epsilon Fm	2069.6	2122.0							
Daralingie 10	28 22 05.320	139 59 52.250	Murteree Sh	2122.0	2165.6							
Daralingie 10	28 22 05.320	139 59 52.250	Patchawarra Fm	2165.6	2200.4							
Daralingie 11	28 21 48.350	139 55 01.710	Toolachee Fm	1944.6	1995.5							
Daralingie 11	28 21 48.350	139 55 01.710	Daralingie Fm	1995.5	2026.9							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0	3	23.4				
		0	2	3.6				
		0	0					
		0	3	8.4				
		0	0					
		0	3	37.2				
		0	3	23.4				
		0.5	2	3.6				
		0	0					
		0	0	0				
		0	0					
		0	1	12.4				
		0	3	23.4				
		0	1	1.8				
		0	0					
		0	2	5.6				
		0	0					
		0	1	12.4				
		0	2	15.6				
		0	1	1.8				
		0	0					
		0	1	2.8				
		0	0					
		0.5	2	24.8				
		0	2	15.6				
		0	2	3.6				
		0	0					
		4.5	1	2.8				
		0	0					
		0	2	24.8				
		0	2	15.6				
		0	2	3.6				
		3	0					
		3	2	5.6				
		2.5	0					
		4	2	24.8				
		0	2	15.6				
		0	2	3.6				
		0	0					
		0	2	5.6				
		0	0					
		0	1	12.4				
		0	4	31.2				
		0	2	3.6				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Daralingie 11	28 21 48.350	139 55 01.710	Roseneath Sh	2026.9	2080.9							
Daralingie 11	28 21 48.350	139 55 01.710	Epsilon Fm	2080.9	2131.8							
Daralingie 11	28 21 48.350	139 55 01.710	Murteree Sh	2131.8	2178.7							
Daralingie 11	28 21 48.350	139 55 01.710	Patchawarra Fm	2178.7	2314.0							
Daralingie 12	28 21 31.620	139 57 22.980	Toolachee Fm	1987.3	2031.8							
Daralingie 12	28 21 31.620	139 57 22.980	Daralingie Fm	2031.8	2058.6							
Daralingie 12	28 21 31.620	139 57 22.980	Roseneath Sh	2058.6	2113.2							
Daralingie 12	28 21 31.620	139 57 22.980	Epsilon Fm	2113.2	2162.3							
Daralingie 12	28 21 31.620	139 57 22.980	Murteree Sh	2162.3	2208.9							
Daralingie 12	28 21 31.620	139 57 22.980	Patchawarra Fm	2208.9	2325.6							
Daralingie 13	28 20 42.480	139 58 07.690	Toolachee Fm	1974.2	2022.7							
Daralingie 13	28 20 42.480	139 58 07.690	Daralingie Fm	2022.7	2056.2							
Daralingie 13	28 20 42.480	139 58 07.690	Roseneath Sh	2056.2	2104.6							
Daralingie 13	28 20 42.480	139 58 07.690	Epsilon Fm	2104.6	2154.0							
Daralingie 13	28 20 42.480	139 58 07.690	Murteree Sh	2154.0	2199.7							
Daralingie 13	28 20 42.480	139 58 07.690	Patchawarra Fm	2199.7	2273.8							
Daralingie 14	28 22 33.480	139 56 11.900	Toolachee Fm	1940.4	1989.1							
Daralingie 14	28 22 33.480	139 56 11.900	Daralingie Fm	1989.1	2020.2							
Daralingie 14	28 22 33.480	139 56 11.900	Roseneath Sh	2020.2	2074.8							
Daralingie 14	28 22 33.480	139 56 11.900	Epsilon Fm	2074.8	2126.3							
Daralingie 14	28 22 33.480	139 56 11.900	Murteree Sh	2126.3	2172.0							
Daralingie 14	28 22 33.480	139 56 11.900	Patchawarra Fm	2172.0	2287.2							
Daralingie 15	28 21 19.300	139 55 46.930	Toolachee Fm	1979.4	2020.8							
Daralingie 15	28 21 19.300	139 55 46.930	Daralingie Fm	2020.8	2050.7							
Daralingie 15	28 21 19.300	139 55 46.930	Roseneath Sh	2050.7	2106.5							
Daralingie 15	28 21 19.300	139 55 46.930	Epsilon Fm	2106.5	2157.4							
Daralingie 15	28 21 19.300	139 55 46.930	Murteree Sh	2157.4	2201.9							
Daralingie 15	28 21 19.300	139 55 46.930	Patchawarra Fm	2201.9	2327.1							
Daralingie 16	28 19 56.710	139 57 18.150	Toolachee Fm	1975.1	2024.5							
Daralingie 16	28 19 56.710	139 57 18.150	Daralingie Fm	2024.5	2056.8							
Daralingie 16	28 19 56.710	139 57 18.150	Roseneath Sh	2056.8	2107.7							
Daralingie 16	28 19 56.710	139 57 18.150	Epsilon Fm	2107.7	2155.2							
Daralingie 16	28 19 56.710	139 57 18.150	Murteree Sh	2155.2	2198.2							
Daralingie 16	28 19 56.710	139 57 18.150	Patchawarra Fm	2198.2	2287.5							
Daralingie 17	28 19 04.430	139 57 59.030	Toolachee Fm	2018.4	2068.1							
Daralingie 17	28 19 04.430	139 57 59.030	Daralingie Fm	2068.1	2099.2							
Daralingie 17	28 19 04.430	139 57 59.030	Roseneath Sh	2099.2	2147.9							
Daralingie 17	28 19 04.430	139 57 59.030	Epsilon Fm	2147.9	2196.1							
Daralingie 17	28 19 04.430	139 57 59.030	Murteree Sh	2196.1	2239.1							
Daralingie 17	28 19 04.430	139 57 59.030	Patchawarra Fm	2239.1	2322.0							
Daralingie 18	28 23 14.080	139 56 45.030	Toolachee Fm	1976.3	2023.9							
Daralingie 18	28 23 14.080	139 56 45.030	Daralingie Fm	2023.9	2055.0							
Daralingie 18	28 23 14.080	139 56 45.030	Roseneath Sh	2055.0	2112.6							
Daralingie 18	28 23 14.080	139 56 45.030	Epsilon Fm	2112.6	2173.2							
Daralingie 18	28 23 14.080	139 56 45.030	Murteree Sh	2173.2	2224.1							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0	0					
		0	1	2.8				
		0	0					
		1	2	24.8				
		0	2	15.6				
		0	2	3.6				
		0	0					
		0	2	5.6				
		0	0					
		1	1	12.4				
		0	3	23.4				
		0	3	5.4				
		0	0					
		0	1	2.8				
		0	0					
		0	2	24.8				
		0	3	23.4				
		0	0	0				
		0	0					
		0	1	2.8				
		0	0					
		0	2	24.8				
		0	2	15.6				
		0	2	3.6				
		0	0					
		0	2	5.6				
		0	0					
		0	1	12.4				
		0	3	23.4				
		0	1	1.8				
		0.5	0					
		1	2	5.6				
		0	0					
		0	2	24.8				
		0	2	15.6				
		0	1	1.8				
		0	0					
		0	1	2.8				
		0	0					
		4	2	24.8				
		0	2	15.6				
		0	2	3.6				
		0	0					
		0	1	2.8				
		0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Daralingie 18	28 23 14.080	139 56 45.030	Patchawarra Fm	2224.1	2394.5							
Daralingie 19	28 22 48.660	139 55 55.940	Toolachee Fm	1968.4	2018.1							
Daralingie 19	28 22 48.660	139 55 55.940	Daralingie Fm	2018.1	2053.7							
Daralingie 19	28 22 48.660	139 55 55.940	Roseneath Sh	2053.7	2109.2							
Daralingie 19	28 22 48.660	139 55 55.940	Epsilon Fm	2109.2	2172.6							
Daralingie 19	28 22 48.660	139 55 55.940	Murteree Sh	2172.6	2218.9							
Daralingie 19	28 22 48.660	139 55 55.940	Patchawarra Fm	2218.9	2371.3							
Daralingie 19	28 22 48.660	139 55 55.940	Patchawarra Fm	2218.9	2371.3							
Daralingie 20	28 19 25.120	139 58 38.970	Toolachee Fm	2014.7	2062.3							
Daralingie 20	28 19 25.120	139 58 38.970	Daralingie Fm	2062.3	2090.3							
Daralingie 20	28 19 25.120	139 58 38.970	Roseneath Sh	2090.3	2129.9							
Daralingie 20	28 19 25.120	139 58 38.970	Epsilon Fm	2129.9	2192.7							
Daralingie 20	28 19 25.120	139 58 38.970	Murteree Sh	2192.7	2236.9							
Daralingie 20	28 19 25.120	139 58 38.970	Patchawarra Fm	2236.9	2319.8							
Daralingie 21	28 22 41.110	140 00 35.350	Toolachee Fm	1973.9	2035.5							
Daralingie 21	28 22 41.110	140 00 35.350	Daralingie Fm	2035.5	2088.8							
Daralingie 21	28 22 41.110	140 00 35.350	Roseneath Sh	2088.8	2140.0							
Daralingie 21	28 22 41.110	140 00 35.350	Epsilon Fm	2140.0	2208.0							
Daralingie 21	28 22 41.110	140 00 35.350	Murteree Sh	2208.0	2258.6							
Daralingie 21	28 22 41.110	140 00 35.350	Patchawarra Fm	2258.6	2317.4							
Daralingie 22	28 21 11.090	139 56 57.600	Toolachee Fm	1998.3	2045.2							
Daralingie 22	28 21 11.090	139 56 57.600	Daralingie Fm	2045.2	2075.7							
Daralingie 22	28 21 11.090	139 56 57.600	Roseneath Sh	2075.7	2131.2							
Daralingie 22	28 21 11.090	139 56 57.600	Epsilon Fm	2131.2	2181.8							
Daralingie 22	28 21 11.090	139 56 57.600	Murteree Sh	2181.8	2229.0							
Daralingie 22	28 21 11.090	139 56 57.600	Patchawarra Fm	2229.0	2348.2							
Daralingie 22 DW1	28 21 11.090	139 56 57.600	Patchawarra Fm	2229.0								
Daralingie 23	28 20 11.080	139 57 50.590	Toolachee Fm	1998.9	2045.8							
Daralingie 23	28 20 11.080	139 57 50.590	Daralingie Fm	2045.8	2081.2							
Daralingie 23	28 20 11.080	139 57 50.590	Roseneath Sh	2081.2	2131.2							
Daralingie 23	28 20 11.080	139 57 50.590	Epsilon Fm	2131.2	2179.9							
Daralingie 23	28 20 11.080	139 57 50.590	Murteree Sh	2179.9	2224.7							
Daralingie 23	28 20 11.080	139 57 50.590	Patchawarra Fm	2224.7	2305.5							
Daralingie 24	28 20 46.559	140 00 33.200	Toolachee Fm	2011.1	2061.1							
Daralingie 24	28 20 46.559	140 00 33.200	Daralingie Fm	2061.1	2093.4							
Daralingie 24	28 20 46.559	140 00 33.200	Roseneath Sh	2093.4	2143.0							
Daralingie 24	28 20 46.559	140 00 33.200	Epsilon Fm	2143.0	2202.5							
Daralingie 24	28 20 46.559	140 00 33.200	Murteree Sh	2202.5	2255.5							
Daralingie 24	28 20 46.559	140 00 33.200	Patchawarra Fm	2255.5	2357.3							
Daralingie 25	28 21 26.340	139 54 48.836	No Permian									
Darmody 1	27 38 00.221	140 40 41.220	Toolachee Fm	2751.1	2806.3							
Darmody 1	27 38 00.221	140 40 41.220	Daralingie Fm	2806.3	2855.1							
Darmody 1	27 38 00.221	140 40 41.220	Roseneath Sh	2855.1	2918.8							
Darmody 1	27 38 00.221	140 40 41.220	Epsilon Fm	2918.8	3006.2							
Darmody 1	27 38 00.221	140 40 41.220	Murteree Sh	3006.2	3052.6							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		4	1	12.4				
		0	4	31.2				
		0	2	3.6				
		0	0					
		0	3	8.4				
		0	0					
		4.5						
		0	3	23.4				
		0	1	1.8				
		0	0					
		0	1	2.8				
		0	0					
		0	1	12.4				
		0	2	15.6				
		0	2	3.6				
		0	0					
		0	1	2.8				
		0	0					
		0	1	12.4				
		0	1	7.8				
		0	2	3.6				
		0	0					
		0	3	8.4				
		0	0					
		5	1	12.4				
		4.5						
		0	3	23.4				
		0	3	5.4				
		0	0					
		0	3	8.4				
		0	0					
		1	1	12.4				
		0	2	15.6				
		0	3	5.4				
		4.5	0					
		5	1	2.8				
		0	0					
		5	2	24.8				
		0	4	31.2				
		0	0	0				
		0	0					
		0	1	2.8				
		0	1					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Darter 1	27 28 14.534	139 55 04.055	Toolachee Fm	2504.8	2504.8		0	1	0	1	0	0
Darter 1	27 28 14.534	139 55 04.055	Patchawarra Fm	2526.2	2615.2		0	0	0	0	0	0
Davren 1	27 54 58.425	140 06 10.019	Toolachee Fm	2471.0	2497.2		0	0	0	0	0	0
Davren 1	27 54 58.425	140 06 10.019	Roseneath Sh	2521.9	2521.9		0	0	0	0	0	0
Davren 1	27 54 58.425	140 06 10.019	Murteree Sh	2563.7	2563.7		0	0	0	0	0	0
Davren 1	27 54 58.425	140 06 10.019	Patchawarra Fm	2626.8	2828.8		0	1	0	0	0	0
Davren 2	27 53 27.620	140 05 02.574	Toolachee Fm	2421.0	2473.8							
Davren 2	27 53 27.620	140 05 02.574	Roseneath Sh	2473.8	2495.4							
Davren 2	27 53 27.620	140 05 02.574	Epsilon Fm	2495.4	2525.0							
Davren 2	27 53 27.620	140 05 02.574	Murteree Sh	2525.0	2560.6							
Davren 2	27 53 27.620	140 05 02.574	Patchawarra Fm	2560.6	2834.3							
Deina 1	28 23 40.410	139 59 08.440	Toolachee Fm	1960.2	2015.3							
Deina 1	28 23 40.410	139 59 08.440	Daralingie Fm	2015.3	2060.8							
Deina 1	28 23 40.410	139 59 08.440	Roseneath Sh	2060.8	2124.8							
Deina 1	28 23 40.410	139 59 08.440	Epsilon Fm	2124.8	2182.7							
Deina 1	28 23 40.410	139 59 08.440	Murteree Sh	2182.7	2231.7							
Deina 1	28 23 40.410	139 59 08.440	Patchawarra Fm	2231.7	2319.5							
Delin 1	27 29 34.370	140 11 54.030	Toolachee Fm	2885.8	2934.0							
Delin 1	27 29 34.370	140 11 54.030	Epsilon Fm	2934.0	2974.2							
Delin 1	27 29 34.370	140 11 54.030	Murteree Sh	2974.2	2990.1							
Delin 1	27 29 34.370	140 11 54.030	Patchawarra Fm	2990.1	3182.4	1.3	0	1	0	1	0	0
Della 7	28 06 28.450	140 36 10.310	Toolachee Fm	1927.9	1974.5		0	0	0	0	0	0
Della 8	28 05 46.240	140 39 43.340	Toolachee Fm	1931.8	1995.2							
Della 8	28 05 46.240	140 39 43.340	Murteree Sh	1995.2	2002.8							
Della 8	28 05 46.240	140 39 43.340	Patchawarra Fm	2002.8	2099.5							
Della 9	28 07 40.010	140 37 44.960	Toolachee Fm	1912.3	1974.5							
Della 9	28 07 40.010	140 37 44.960	Patchawarra Fm	1974.5	2034.8							
Della 10	28 06 14.130	140 37 52.500	Toolachee Fm	1923.3	1978.8							
Della 10	28 06 14.130	140 37 52.500	Patchawarra Fm	1978.8	2030.0							
Della 11	28 05 23.780	140 38 59.640	Toolachee Fm	1922.4	1990.3							
Della 11	28 05 23.780	140 38 59.640	Patchawarra Fm	1990.3	2028.7							
Della 12	28 07 21.500	140 36 55.580	Toolachee Fm	1922.1	1979.7							
Della 12	28 07 21.500	140 36 55.580	Patchawarra Fm	1979.7	2034.8							
Della 13	28 06 13.200	140 39 14.900	Toolachee Fm	1931.2	2004.4							
Della 13	28 06 13.200	140 39 14.900	Murteree Sh	2004.4	2009.5							
Della 13	28 06 13.200	140 39 14.900	Patchawarra Fm	2009.5	2069.6							
Della 14	28 05 43.190	140 37 14.670	Toolachee Fm	1955.0	1997.0							
Della 14	28 05 43.190	140 37 14.670	Patchawarra Fm	1997.0	2030.6							
Della 15	28 05 47.140	140 40 25.270	Toolachee Fm	1944.0	2020.8							
Della 15	28 05 47.140	140 40 25.270	Murteree Sh	2020.8	2034.8							
Della 15	28 05 47.140	140 40 25.270	Patchawarra Fm	2034.8	2138.8							
Della 16	28 06 55.250	140 38 11.590	Toolachee Fm	1951.0	2009.9							
Della 16	28 06 55.250	140 38 11.590	Patchawarra Fm	2009.9	2124.5							
Della 17	28 06 57.210	140 37 10.110	Toolachee Fm	1909.3	1960.8							
Della 17	28 06 57.210	140 37 10.110	Patchawarra Fm	1960.8	1985.5							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
2				2	15.6			Wood	
0				2	24.8			Wood	
0				5	39			Wood	
0				0				Wood	
0				0				Wood	
1				4	49.6			Wood	
			0	2	15.6				
			0	0					
			1	2	5.6				
			0	0					
			5	5	62				
			0	4	31.2				
			0	1	1.8				
			0	0					
			5	3	8.4				
			2	0					
			2	1	12.4				
			0	3	23.4			Jones	
			0	3	8.4			Jones	
			0	0				Jones	
2			0	3	37.2			Jones	
0				2	15.6			Price	
			0	2	15.6				
			0	0					
			0	2	24.8				
			0	2	15.6			Harris	
			0	1	12.4				
			0	2	15.6				
			0	1	12.4				
			0	2	15.6				
			0	0	0				
			0	1	7.8				
			0	0	0				
			0	2	15.6				
			0	0					
			0	1	12.4				
			0	2	15.6				
			0	0	0				
			0	1	7.8				
			0	0					
			0	1	12.4				
			0	1	7.8				
			0	2	24.8				
			0	4	31.2				
			0	1	12.4				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Della 18	28 06 35.895	140 37 12.763	No Permian									
Della 18R	28 06 35.895	140 37 12.763	No Permian									
Deparanie 1	27 40 02.367	140 16 03.049	Toolachee Fm	2404.9	2441.4	0.9	0	0	0	0	0	0
Deparanie 1	27 40 02.367	140 16 03.049	Patchawarra Fm	2441.4	2448.5	1	0	0	0	1	0	0
Deramookoo 1	27 10 04.756	140 33 13.117	No Permian									
Dieri 1	28 16 09.200	140 45 53.850	Toolachee Fm	1993.4	2130.6	0.85	0	0	0	0	1	0
Dieri 1	28 16 09.200	140 45 53.850	Roseneath Sh	2130.6	2167.1	0.92	0	0	0	0	0	0
Dieri 1	28 16 09.200	140 45 53.850	Epsilon Fm	2167.1	2222.0	0.99	0	0	0	0	1	0
Dieri 1	28 16 09.200	140 45 53.850	Murteree Sh	2222.0	2286.0	1	0	0	0	0	0	0
Dieri 1	28 16 09.200	140 45 53.850	Patchawarra Fm	2286.0	2368.3	1.03	0	0	0	0	1	0
Dilchee 1	28 12 38.130	140 55 18.000	Toolachee Fm	2135.4	2279.9	0.77	0	0	0	0	0	0
Dilchee 1	28 12 38.130	140 55 18.000	Toolachee Fm	2135.4	2279.9	0.77	0	0	0	0	0	0
Dilchee 1	28 12 38.130	140 55 18.000	Daralingie Fm	2279.9	2295.1	0.91	0	0	0	0	0	0
Dilchee 1	28 12 38.130	140 55 18.000	Roseneath Sh	2295.1	2369.5	0.82	0	0	0	0	0	0
Dilchee 1	28 12 38.130	140 55 18.000	Epsilon Fm	2369.5	2430.5	0.88	0	0	0	0	0	0
Dilchee 1	28 12 38.130	140 55 18.000	Murteree Sh	2430.5	2487.2	0.88	0	0	0	0	0	0
Dilchee 1	28 12 38.130	140 55 18.000	Patchawarra Fm	2487.2	2759.0	0.84	0	0	0	0	0	0
Dilchee 2	28 13 09.807	140 54 50.356	Toolachee Fm	2119.6	2260.4							
Dilchee 2	28 13 09.807	140 54 50.356	Daralingie Fm	2260.4	2272.6							
Dilchee 2	28 13 09.807	140 54 50.356	Roseneath Sh	2272.6	2343.3							
Dilchee 2	28 13 09.807	140 54 50.356	Epsilon Fm	2343.3	2401.2							
Dilchee 2	28 13 09.807	140 54 50.356	Murteree Sh	2401.2	2456.4							
Dilchee 2	28 13 09.807	140 54 50.356	Patchawarra Fm	2456.4	2719.4							
Dilchee 3	28 13 27.267	140 54 42.049	Toolachee Fm	2123.8	2270.2							
Dilchee 3	28 13 27.267	140 54 42.049	Daralingie Fm	2270.2	2278.1							
Dilchee 3	28 13 27.267	140 54 42.049	Roseneath Sh	2278.1	2348.2							
Dilchee 3	28 13 27.267	140 54 42.049	Epsilon Fm	2348.2	2403.0							
Dilchee 3	28 13 27.267	140 54 42.049	Murteree Sh	2403.0	2462.2							
Dilchee 3	28 13 27.267	140 54 42.049	Patchawarra Fm	2462.2	2767.6							
Dirkala 1	28 31 04.920	140 02 22.440	Toolachee Fm	1749.2	1785.2	0.61	0	0	1	0	0	0
Dirkala 1	28 31 04.920	140 02 22.440	Roseneath Sh	1791.0	1821.5		0	1	1	0	0	0
Dirkala 1	28 31 04.920	140 02 22.440	Epsilon Fm	1861.7	1874.8	0.69	1	0	0	0	1	0
Dirkala 1	28 31 04.920	140 02 22.440	Patchawarra Fm	1915.4	2051.0	0.76	1	0	1	0	0	0
Dirkala 2	28 30 48.980	140 01 37.440	Toolachee Fm	1745.3	1797.1							
Dirkala 2	28 30 48.980	140 01 37.440	Daralingie Fm	1797.1	1804.7							
Dirkala 2	28 30 48.980	140 01 37.440	Roseneath Sh	1804.7	1844.0							
Dirkala 2	28 30 48.980	140 01 37.440	Epsilon Fm	1844.0	1894.3							
Dirkala 2	28 30 48.980	140 01 37.440	Murteree Sh	1894.3	1932.7							
Dirkala 2	28 30 48.980	140 01 37.440	Patchawarra Fm	1932.7	2102.2							
Dirkala 3	28 30 56.380	140 02 05.340	Toolachee Fm	1734.9	1784.3							
Dirkala 3	28 30 56.380	140 02 05.340	Daralingie Fm	1784.3	1796.8							
Dirkala 3	28 30 56.380	140 02 05.340	Roseneath Sh	1796.8	1830.6							
Dirkala 3	28 30 56.380	140 02 05.340	Epsilon Fm	1830.6	1874.8							
Dirkala 3	28 30 56.380	140 02 05.340	Murteree Sh	1874.8	1917.2							
Dirkala 3	28 30 56.380	140 02 05.340	Patchawarra Fm	1917.2	2079.3							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			0.5	2	15.6			Wood, Marshall	
1			0	0	0			Wood, Marshall	
1			1	4	31.2		5		
0			0	4			5		
1			0	5	14		0		
0			0	5			5		
1			1	5	62		5		
0			1.5			5			
0						5			
0			0	0	0				
0			0	0					
0			0	1	2.8		2		
0			0	0			2		
1			0	2	24.8		2		
			0	2	15.6				
			0	2	3.6				
			0	1					
			0	1	2.8				
			0	0					
			0	3	37.2				
			0	3	23.4				
			0	2	3.6				
			0	0					
			0	1	2.8				
			0	0					
			0	3	37.2				
1			0				1		
2									
2			1				5		
2			1				4		
			0	2	15.6				
			0	0	0				
			0	2					
			0	0	0				
			0	0					
			5	3	37.2				
			0	4	31.2				
			0	0	0				
			0	0					
			0	3	8.4				
			0	0					
			3	3	37.2				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Dirkala 4	28 30 44.170	140 02 04.480	No Permian									
Dirkala South 1	28 31 43.689	140 02 28.563	Toolachee Fm	1798.3	1798.3		1	0	1	1	0	0
Dirkala South 1	28 31 43.689	140 02 28.563	Roseneath Sh	1805.9	1805.9		0	0	1	0	0	0
Dirkala South 1	28 31 43.689	140 02 28.563	Patchawarra Fm	1986.7	2096.1		1	0	1	1	0	0
Dirkala South 1	28 31 43.689	140 02 28.563	Patchawarra Fm	1986.7	2096.1		1	0	1	1	0	0
Dirkala West 1	28 30 58.458	140 01 11.985	Toolachee Fm	1753.8	1753.8		0	0	0	0	0	0
Dirkala West 1	28 30 58.458	140 01 11.985	Roseneath Sh	1800.8	1837.9		0	1	0	0	0	0
Dirkala West 1	28 30 58.458	140 01 11.985	Epsilon Fm	1840.4	1879.4		0	0	0	0	0	0
Dirkala West 1	28 30 58.458	140 01 11.985	Murteree Sh	1883.1	1921.8		0	0	0	0	0	0
Dirkala West 1	28 30 58.458	140 01 11.985	Patchawarra Fm	1956.8	2056.2		0	0	0	0	0	0
Dorodillo 1	28 09 31.840	139 58 29.390	Toolachee Fm	2182.7	2223.2							
Dorodillo 1	28 09 31.840	139 58 29.390	Daralingie Fm	2223.2	2246.4							
Dorodillo 1	28 09 31.840	139 58 29.390	Roseneath Sh	2246.4	2284.5							
Dorodillo 1	28 09 31.840	139 58 29.390	Epsilon Fm	2284.5	2315.0							
Dorodillo 1	28 09 31.840	139 58 29.390	Murteree Sh	2315.0	2430.5							
Dorodillo 1	28 09 31.840	139 58 29.390	Patchawarra Fm	2430.5	2564.9		0	1	0	0	0	0
Dorodillo 2	28 08 47.374	139 59 09.331	Toolachee Fm	2282.3	2327.8							
Dorodillo 2	28 08 47.374	139 59 09.331	Daralingie Fm	2327.8	2348.5							
Dorodillo 2	28 08 47.374	139 59 09.331	Roseneath Sh	2348.5	2391.8							
Dorodillo 2	28 08 47.374	139 59 09.331	Epsilon Fm	2391.8	2426.5							
Dorodillo 2	28 08 47.374	139 59 09.331	Murteree Sh	2426.5	2472.5							
Dorodillo 2	28 08 47.374	139 59 09.331	Patchawarra Fm	2472.5	2771.9							
Dorodillo 3	28 07 51.087	139 57 23.177	Toolachee Fm	2213.8	2257.3		0	0	0	0	0	0
Dorodillo 3	28 07 51.087	139 57 23.177	Daralingie Fm	2257.3	2268.9		0	0	0	0	0	0
Dorodillo 3	28 07 51.087	139 57 23.177	Roseneath Sh	2268.9	2303.1		0	0	0	0	0	0
Dorodillo 3	28 07 51.087	139 57 23.177	Epsilon Fm	2303.1	2337.8		0	0	0	0	0	0
Dorodillo 3	28 07 51.087	139 57 23.177	Murteree Sh	2337.8	2376.2		0	0	0	0	0	0
Dorodillo 3	28 07 51.087	139 57 23.177	Patchawarra Fm	2376.2	2704.2	1.1		0	0	1	0	0
Dullingari 1	28 08 00.030	140 52 34.980	Daralingie Fm	2089.1	2210.1							
Dullingari 1	28 08 00.030	140 52 34.980	Epsilon Fm	2210.1	2224.4							
Dullingari 1	28 08 00.030	140 52 34.980	Murteree Sh	2224.4	2293.6							
Dullingari 1	28 08 00.030	140 52 34.980	Patchawarra Fm	2293.6	2354.6	2.1						
Dullingari 1	28 08 00.030	140 52 34.980	Roseneath Sh	2354.6	2411.0	1.3						
Dullingari 1	28 08 00.030	140 52 34.980	Toolachee Fm	2411.0	2088.5	1.3						
Dullingari 2	28 08 17.110	140 53 15.110	Toolachee Fm	2088.5	2208.9							
Dullingari 2	28 08 17.110	140 53 15.110	Daralingie Fm	2208.9	2215.6							
Dullingari 2	28 08 17.110	140 53 15.110	Roseneath Sh	2215.6	2279.9							
Dullingari 2	28 08 17.110	140 53 15.110	Epsilon Fm	2279.9	2337.2							
Dullingari 2	28 08 17.110	140 53 15.110	Murteree Sh	2337.2	2389.6							
Dullingari 2	28 08 17.110	140 53 15.110	Patchawarra Fm	2389.6								
Dullingari 3	28 05 20.000	140 51 55.000	Toolachee Fm	2156.8	2265.3							
Dullingari 3	28 05 20.000	140 51 55.000	Daralingie Fm	2265.3	2281.4							
Dullingari 3	28 05 20.000	140 51 55.000	Roseneath Sh	2281.4	2349.1							
Dullingari 3	28 05 20.000	140 51 55.000	Epsilon Fm	2349.1	2406.7							
Dullingari 3	28 05 20.000	140 51 55.000	Murteree Sh	2406.7	2463.4							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
3				3	23.4			Benson	
1				0				Benson	
3			4	3	37.2			Benson	
3				3	37.2			Benson	
0				1	7.8			Wood	
1				0				Wood	
0				2	5.6			Wood	
0				0				Wood	
0				1	12.4			Wood	
			0	2	15.6				
			0	2	3.6				
			0	0					
			0	2	5.6				
			0	0					
1			2	5	62			Wood	
			0	2	15.6				
			0	2	3.6				
			0	0					
			0	2	5.6				
			0	1					
			1	4	49.6				
0			0	1	7.8			Wood	
0			0	1	1.8			Wood	
0			0	0				Wood	
0			0	2	5.6			Wood	
0			0	0				Wood	
1			0	3	37.2			Wood	

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Dullingari 3	28 05 20.000	140 51 55.000	Patchawarra Fm	2463.4								
Dullingari 4	28 06 44.670	140 53 43.510	Toolachee Fm	2120.2	2232.4							
Dullingari 4	28 06 44.670	140 53 43.510	Daralingie Fm	2232.4	2253.4							
Dullingari 4	28 06 44.670	140 53 43.510	Roseneath Sh	2253.4	2309.2							
Dullingari 4	28 06 44.670	140 53 43.510	Epsilon Fm	2309.2	2364.6							
Dullingari 4	28 06 44.670	140 53 43.510	Murteree Sh	2364.6	2415.2							
Dullingari 4	28 06 44.670	140 53 43.510	Patchawarra Fm	2415.2								
Dullingari 5	28 06 31.220	140 51 45.170	No Permian									
Dullingari 6	28 09 03.750	140 52 33.490	No Permian									
Dullingari 7	28 07 51.170	140 50 54.430	No Permian									
Dullingari 8	28 07 24.780	140 52 40.780	No Permian									
Dullingari 9	28 05 28.620	140 51 25.510	No Permian									
Dullingari 10	28 03 22.650	140 53 05.230	No Permian									
Dullingari 11	28 03 14.760	140 51 22.550	No Permian									
Dullingari 12	28 07 36.570	140 53 59.720	No Permian									
Dullingari 13	28 06 22.090	140 52 21.060	No Permian									
Dullingari 14	28 05 59.690	140 51 35.400	No Permian									
Dullingari 15	28 06 08.190	140 51 00.010	No Permian									
Dullingari 16	28 08 23.800	140 51 42.980	Toolachee Fm	2077.5	2200.0							
Dullingari 16	28 08 23.800	140 51 42.980	Daralingie Fm	2200.0	2208.0							
Dullingari 16	28 08 23.800	140 51 42.980	Roseneath Sh	2208.0	2276.6							
Dullingari 16	28 08 23.800	140 51 42.980	Epsilon Fm	2276.6	2338.4							
Dullingari 16	28 08 23.800	140 51 42.980	Murteree Sh	2338.4	2396.3							
Dullingari 16	28 08 23.800	140 51 42.980	Patchawarra Fm	2396.3	2691.4							
Dullingari 17	28 08 46.730	140 53 59.250	Toolachee Fm	2112.3	2225.0							
Dullingari 17	28 08 46.730	140 53 59.250	Daralingie Fm	2225.0	2231.1							
Dullingari 17	28 08 46.730	140 53 59.250	Roseneath Sh	2231.1	2290.3							
Dullingari 17	28 08 46.730	140 53 59.250	Epsilon Fm	2290.3	2347.3							
Dullingari 17	28 08 46.730	140 53 59.250	Murteree Sh	2347.3	2400.9							
Dullingari 17	28 08 46.730	140 53 59.250	Patchawarra Fm	2400.9								
Dullingari 18	28 08 48.000	140 53 07.030	Toolachee Fm	2070.2	2187.2							
Dullingari 18	28 08 48.000	140 53 07.030	Daralingie Fm	2187.2	2193.6							
Dullingari 18	28 08 48.000	140 53 07.030	Roseneath Sh	2193.6	2248.8							
Dullingari 18	28 08 48.000	140 53 07.030	Epsilon Fm	2248.8	2303.1							
Dullingari 18	28 08 48.000	140 53 07.030	Murteree Sh	2303.1	2350.0							
Dullingari 18	28 08 48.000	140 53 07.030	Patchawarra Fm	2350.0	2570.7							
Dullingari 19	28 07 44.310	140 53 39.820	Toolachee Fm	2114.1	2235.1							
Dullingari 19	28 07 44.310	140 53 39.820	Daralingie Fm	2235.1	2244.9							
Dullingari 19	28 07 44.310	140 53 39.820	Roseneath Sh	2244.9	2304.0							
Dullingari 19	28 07 44.310	140 53 39.820	Epsilon Fm	2304.0	2370.7							
Dullingari 19	28 07 44.310	140 53 39.820	Murteree Sh	2370.7	2426.8							
Dullingari 19	28 07 44.310	140 53 39.820	Patchawarra Fm	2426.8	2699.3							
Dullingari 20	28 05 19.940	140 52 01.460	No Permian									
Dullingari 21	28 04 26.220	140 51 06.010	No Permian									
Dullingari 22	28 08 03.830	140 52 20.270	Toolachee Fm	2077.5	2199.1							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0	2	15.6				
		0	1	1.8				
		0	0					
		0	1	2.8				
		0	1					
		0	3	37.2				
								Incomplete log
								Incomplete log
								Incomplete log
								Incomplete log
								Incomplete log
								Incomplete log
		0	1	7.8				
		0	0	0				
		0	0					
		0	1	2.8				
		0	0					
		0	2	24.8				
		0	2	15.6				
		0	1	1.8				
		0	0					
		0	1	2.8				
		0	0					
		0	2	24.8				
		0	2	15.6				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Dullingari 22	28 08 03.830	140 52 20.270	Daralingie Fm	2199.1	2209.5							
Dullingari 22	28 08 03.830	140 52 20.270	Roseneath Sh	2209.5	2275.3							
Dullingari 22	28 08 03.830	140 52 20.270	Epsilon Fm	2275.3	2335.7							
Dullingari 22	28 08 03.830	140 52 20.270	Murteree Sh	2335.7	2393.9							
Dullingari 22	28 08 03.830	140 52 20.270	Patchawarra Fm	2393.9	2688.9							
Dullingari 23	28 08 45.080	140 52 27.620	Toolachee Fm	2072.9	2192.1							
Dullingari 23	28 08 45.080	140 52 27.620	Daralingie Fm	2192.1	2200.7							
Dullingari 23	28 08 45.080	140 52 27.620	Roseneath Sh	2200.7	2265.3							
Dullingari 23	28 08 45.080	140 52 27.620	Epsilon Fm	2265.3	2322.6							
Dullingari 23	28 08 45.080	140 52 27.620	Murteree Sh	2322.6	2378.0							
Dullingari 23	28 08 45.080	140 52 27.620	Patchawarra Fm	2378.0	2993.9							
Dullingari 24	28 06 39.880	140 53 26.140	Toolachee Fm	2119.0	2228.7							
Dullingari 24	28 06 39.880	140 53 26.140	Daralingie Fm	2228.7	2254.9							
Dullingari 24	28 06 39.880	140 53 26.140	Roseneath Sh	2254.9	2305.5							
Dullingari 24	28 06 39.880	140 53 26.140	Epsilon Fm	2305.5	2359.5							
Dullingari 24	28 06 39.880	140 53 26.140	Murteree Sh	2359.5	2408.5							
Dullingari 24	28 06 39.880	140 53 26.140	Patchawarra Fm	2408.5	2651.8							
Dullingari 25	28 07 22.910	140 52 01.630	Toolachee Fm	2102.2	2227.5							
Dullingari 25	28 07 22.910	140 52 01.630	Daralingie Fm	2227.5	2238.1							
Dullingari 25	28 07 22.910	140 52 01.630	Roseneath Sh	2238.1	2307.3							
Dullingari 25	28 07 22.910	140 52 01.630	Epsilon Fm	2307.3	2368.3							
Dullingari 25	28 07 22.910	140 52 01.630	Murteree Sh	2368.3	2425.0							
Dullingari 25	28 07 22.910	140 52 01.630	Patchawarra Fm	2425.0	2729.8							
Dullingari 26	28 07 13.140	140 51 13.410	Toolachee Fm	2122.3	2247.9							
Dullingari 26	28 07 13.140	140 51 13.410	Daralingie Fm	2247.9	2272.3							
Dullingari 26	28 07 13.140	140 51 13.410	Roseneath Sh	2272.3	2329.3							
Dullingari 26	28 07 13.140	140 51 13.410	Epsilon Fm	2329.3	2393.3							
Dullingari 26	28 07 13.140	140 51 13.410	Murteree Sh	2393.3	2451.5							
Dullingari 26	28 07 13.140	140 51 13.410	Patchawarra Fm	2451.5	2838.6							
Dullingari 27	28 06 53.810	140 52 30.980	No Permian									
Dullingari 28	28 07 02.600	140 51 55.290	No Permian									
Dullingari 29	28 08 12.310	140 52 17.200	No Permian									
Dullingari 30	28 08 30.920	140 52 28.770	No Permian									
Dullingari 31	28 07 59.830	140 52 02.210	No Permian									
Dullingari 32	28 08 27.770	140 52 07.890	No Permian									
Dullingari 33	28 04 57.240	140 51 15.940	No Permian									
Dullingari 34	28 05 46.160	140 50 15.680	No Permian									
Dullingari 35	28 06 13.450	140 52 56.100	No Permian									
Dullingari 36	28 08 13.060	140 53 33.770	No Permian									
Dullingari 37	28 04 50.350	140 54 00.590	No Permian									
Dullingari 38	28 08 00.260	140 52 09.180	No Permian									
Dullingari 39	28 05 58.100	140 53 57.440	Toolachee Fm	2153.1	2261.6							
Dullingari 39	28 05 58.100	140 53 57.440	Daralingie Fm	2261.6	2274.4							
Dullingari 39	28 05 58.100	140 53 57.440	Roseneath Sh	2274.4	2338.4							
Dullingari 39	28 05 58.100	140 53 57.440	Epsilon Fm	2338.4	2388.4							

Table 2 Alginite Database

[illegible]

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Dullingari 39	28 05 58.100	140 53 57.440	Murteree Sh	2388.4	2440.8							
Dullingari 39	28 05 58.100	140 53 57.440	Patchawarra Fm	2440.8	2668.8							
Dullingari 40	28 08 08.700	140 52 49.980	No Permian									
Dullingari 41	28 07 15.690	140 53 15.050	No Permian									
Dullingari 42	28 04 32.460	140 51 45.270	No Permian									
Dullingari 43	28 08 19.430	140 52 41.790	No Permian									
Dullingari 44	28 06 49.960	140 52 46.380	Toolachee Fm	2134.2	2251.3							
Dullingari 44	28 06 49.960	140 52 46.380	Daralingie Fm	2251.3	2268.0							
Dullingari 44	28 06 49.960	140 52 46.380	Roseneath Sh	2268.0	2338.1							
Dullingari 44	28 06 49.960	140 52 46.380	Epsilon Fm	2338.1	2399.1							
Dullingari 44	28 06 49.960	140 52 46.380	Murteree Sh	2399.1	2453.6							
Dullingari 44	28 06 49.960	140 52 46.380	Patchawarra Fm	2453.6	2796.8							
Dullingari 45	28 08 50.200	140 51 27.850	Toolachee Fm	2128.7	2258.6							
Dullingari 45	28 08 50.200	140 51 27.850	Daralingie Fm	2258.6	2286.0							
Dullingari 45	28 08 50.200	140 51 27.850	Roseneath Sh	2286.0	2345.4							
Dullingari 45	28 08 50.200	140 51 27.850	Epsilon Fm	2345.4	2412.2							
Dullingari 45	28 08 50.200	140 51 27.850	Murteree Sh	2412.2	2471.9							
Dullingari 45	28 08 50.200	140 51 27.850	Patchawarra Fm	2471.9	2838.6							
Dullingari 46	28 06 28.019	140 50 45.855	Toolachee Fm	2130.9	2242.7							
Dullingari 46	28 06 28.019	140 50 45.855	Daralingie Fm	2242.7	2270.5							
Dullingari 46	28 06 28.019	140 50 45.855	Roseneath Sh	2270.5	2324.7							
Dullingari 46	28 06 28.019	140 50 45.855	Epsilon Fm	2324.7	2384.1							
Dullingari 46	28 06 28.019	140 50 45.855	Murteree Sh	2384.1	2440.8							
Dullingari 46	28 06 28.019	140 50 45.855	Patchawarra Fm	2440.8	2820.6							
Dullingari 47	28 06 39.804	140 53 20.718	No Permian									
Dullingari 48	28 08 38.999	140 53 08.540	No Permian									
Dullingari 49	28 05 35.138	140 53 14.710	No Permian									
Dullingari 50	28 08 42.599	140 52 38.385	No Permian									
Dullingari 51	28 05 43.680	140 52 52.540	No Permian									
Dullingari North 1	28 04 35.900	140 51 47.510	Toolachee Fm	2141.5	2248.2	1.1						
Dullingari North 1	28 04 35.900	140 51 47.510	Daralingie Fm	2248.2	2272.6							
Dullingari North 1	28 04 35.900	140 51 47.510	Roseneath Sh	2272.6	2319.8							
Dullingari North 1	28 04 35.900	140 51 47.510	Epsilon Fm	2319.8	2373.8	1.3						
Dullingari North 1	28 04 35.900	140 51 47.510	Murteree Sh	2373.8	2424.7							
Dullingari North 1	28 04 35.900	140 51 47.510	Patchawarra Fm	2424.7		1.9						
Dullingari North 2	28 05 02.340	140 51 16.250	Toolachee Fm	2187.2	2206.8							
Dullingari North 2	28 05 02.340	140 51 16.250	Daralingie Fm	2258.0	2273.2							
Dullingari North 2	28 05 02.340	140 51 16.250	Roseneath Sh	2273.2	2338.1							
Dullingari North 2	28 05 02.340	140 51 16.250	Epsilon Fm	2338.1	2396.3							
Dullingari North 2	28 05 02.340	140 51 16.250	Murteree Sh	2396.3	2453.0							
Dullingari North 2	28 05 02.340	140 51 16.250	Patchawarra Fm	2527.4	2557.9							
Dullingari North 3	28 03 57.520	140 52 13.680	Toolachee Fm	2154.3	2263.4							
Dullingari North 3	28 03 57.520	140 52 13.680	Daralingie Fm	2263.4	2286.6							
Dullingari North 3	28 03 57.520	140 52 13.680	Roseneath Sh	2286.6	2325.9							
Dullingari North 3	28 03 57.520	140 52 13.680	Epsilon Fm	2325.9	2394.5							

Table 2 Alginite Database

[illegible]

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Dullingari North 3	28 03 57.520	140 52 13.680	Murteree Sh	2394.5	2447.8							
Dullingari North 3	28 03 57.520	140 52 13.680	Patchawarra Fm	2447.8	2757.5							
Dullingari North 4	28 05 00.860	140 52 33.250	Toolachee Fm	2156.2	2270.8							
Dullingari North 4	28 05 00.860	140 52 33.250	Daralingie Fm	2270.8	2301.2							
Dullingari North 4	28 05 00.860	140 52 33.250	Roseneath Sh	2301.2	2350.0							
Dullingari North 4	28 05 00.860	140 52 33.250	Epsilon Fm	2350.0	2413.4							
Dullingari North 4	28 05 00.860	140 52 33.250	Murteree Sh	2413.4	2469.5							
Dullingari North 4	28 05 00.860	140 52 33.250	Patchawarra Fm	2469.5	2793.8							
Dullingari North 5	28 03 15.231	140 52 38.074	Toolachee Fm	2174.1	2280.5							
Dullingari North 5	28 03 15.231	140 52 38.074	Daralingie Fm	2280.5	2308.6							
Dullingari North 5	28 03 15.231	140 52 38.074	Roseneath Sh	2308.6	2353.1							
Dullingari North 5	28 03 15.231	140 52 38.074	Epsilon Fm	2353.1	2412.8							
Dullingari North 5	28 03 15.231	140 52 38.074	Murteree Sh	2412.8	2468.3							
Dullingari North 5	28 03 15.231	140 52 38.074	Patchawarra Fm	2468.3	2675.8							
Dullingari North 6	28 05 28.150	140 50 47.072	Toolachee Fm	2142.4	2245.8							
Dullingari North 6	28 05 28.150	140 50 47.072	Daralingie Fm	2245.8	2276.6							
Dullingari North 6	28 05 28.150	140 50 47.072	Roseneath Sh	2276.6	2325.0							
Dullingari North 6	28 05 28.150	140 50 47.072	Epsilon Fm	2325.0	2385.7							
Dullingari North 6	28 05 28.150	140 50 47.072	Murteree Sh	2385.7	2437.2							
Dullingari North 6	28 05 28.150	140 50 47.072	Patchawarra Fm	2437.2	2812.1							
Dullingari North 7	28 06 02.010	140 50 38.569	Toolachee Fm	2150.1	2250.6							
Dullingari North 7	28 06 02.010	140 50 38.569	Daralingie Fm	2250.6	2268.3							
Dullingari North 7	28 06 02.010	140 50 38.569	Roseneath Sh	2268.3	2338.1							
Dullingari North 7	28 06 02.010	140 50 38.569	Epsilon Fm	2338.1	2398.2							
Dullingari North 7	28 06 02.010	140 50 38.569	Murteree Sh	2398.2	2453.9							
Dullingari North 7	28 06 02.010	140 50 38.569	Patchawarra Fm	2453.9	2832.2							
Dullingari North 8	28 05 23.393	140 51 22.989	No Permian									
Dullingari North 9	28 03 33.975	140 51 51.976	No Permian									
Dune 1	28 11 53.109	140 00 24.593	Toolachee Fm	2200.0	2263.1							
Dune 1	28 11 53.109	140 00 24.593	Daralingie Fm	2263.1	2300.6							
Dune 1	28 11 53.109	140 00 24.593	Epsilon Fm	2300.6	2415.8	0	0	0	0	0	0	
Dune 1	28 11 53.109	140 00 24.593	Murteree Sh	2366.2	2470.4	0	0	0	0	0	0	
Dune 1	28 11 53.109	140 00 24.593	Roseneath Sh	2415.8	2366.2							
Dune 1	28 11 53.109	140 00 24.593	Patchawarra Fm	2470.4	2607.0	0	0	0	1	0	0	
Dunoon 1	28 38 33.610	140 06 23.720	No Permian									
Fangorn 1	28 29 19.520	140 17 54.170	No Permian									
Farina 1	28 17 12.164	139 56 34.736	Toolachee Fm	2005.6	2044.3	0	0	0	0	0	0	
Farina 1	28 17 12.164	139 56 34.736	Murteree Sh	2044.3	2208.0	0	0	0	0	0	0	
Farina 1	28 17 12.164	139 56 34.736	Epsilon Fm	2080.6	2167.7	0	0	0	0	0	0	
Farina 1	28 17 12.164	139 56 34.736	Daralingie Fm	2129.0	2080.6	0	1	0	0	0	0	
Farina 1	28 17 12.164	139 56 34.736	Patchawarra Fm	2208.0	2261.0	0	0	0	0	0	0	
Farina 1	28 17 12.164	139 56 34.736	Roseneath Sh	2261.0	2129.0	0	0	0	0	0	0	
Farina 2	28 17 29.100	139 55 13.800	Toolachee Fm	2016.9	2055.9							
Farina 2	28 17 29.100	139 55 13.800	Epsilon Fm	2055.9	2191.2							
Farina 2	28 17 29.100	139 55 13.800	Daralingie Fm	2167.7	2091.2							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0	0					
			0	2	24.8				
			0.5	2	15.6				
			0	1	1.8				
			0	0					
			0	0	0				
			0	0					
			0	4	49.6				
			0	3	23.4				
			0	1	1.8				
			0	0					
			0	1	2.8				
			0	0					
			0	2	24.8				
			0	2	15.6				
			0	1	1.8				
			0	0					
			0	1	2.8				
			0	2	24.8				
			0	3	23.4				
			0	1	1.8				
			0	0					
			0	1	2.8				
			0	0					
			0	3	37.2				
			0	2	15.6				
			0	3	5.4				
0			1	1	2.8			Wood	
0			0	0				Wood	
			1.5	0					
1			1	3	37.2			Wood	
0			0	2	15.6			Benson, Wood	
0			0	0				Benson, Wood	
0			0	0	0			Benson, Wood	
1			0	1	1.8			Benson, Wood	
0			0	1	12.4			Benson, Wood	
0			0	0				Benson, Wood	
			0	2	15.6				
			0	1	2.8				
			0	1	1.8				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Farina 2	28 17 29.100	139 55 13.800	Murteree Sh	2191.2	2235.4							
Farina 2	28 17 29.100	139 55 13.800	Patchawarra Fm	2235.4	2320.7							
Farina 2	28 17 29.100	139 55 13.800	Roseneath Sh	2320.7	2146.1							
Ficus 1	27 46 13.102	140 04 56.217	Toolachee Fm	2488.4	2529.5							
Ficus 1	27 46 13.102	140 04 56.217	Epsilon Fm	2529.5	2560.9							
Ficus 1	27 46 13.102	140 04 56.217	Murteree Sh	2560.9	2586.8							
Ficus 1	27 46 13.102	140 04 56.217	Patchawarra Fm	2586.8	2897.4							
Fly Lake 4	27 36 30.020	139 59 40.420	Toolachee Fm	2611.2	2643.2							
Fly Lake 4	27 36 30.020	139 59 40.420	Epsilon Fm	2643.2	2649.9							
Fly Lake 4	27 36 30.020	139 59 40.420	Murteree Sh	2649.9	2651.8							
Fly Lake 4	27 36 30.020	139 59 40.420	Patchawarra Fm	2651.8	2868.2							
Fly Lake 5	27 38 38.060	139 56 57.060	Toolachee Fm	2583.2	2618.8							
Fly Lake 5	27 38 38.060	139 56 57.060	Epsilon Fm	2618.8	2627.4							
Fly Lake 5	27 38 38.060	139 56 57.060	Murteree Sh	2627.4	2634.1							
Fly Lake 5	27 38 38.060	139 56 57.060	Patchawarra Fm	2634.1	2882.5							
Fly Lake 6	27 38 06.050	139 56 06.960	Toolachee Fm	2575.0	2607.9							
Fly Lake 6	27 38 06.050	139 56 06.960	Epsilon Fm	2607.9	2620.4							
Fly Lake 6	27 38 06.050	139 56 06.960	Murteree Sh	2620.4	2627.4							
Fly Lake 6	27 38 06.050	139 56 06.960	Patchawarra Fm	2627.4	2863.3							
Fly Lake 7	27 38 30.460	139 56 09.680	Toolachee Fm	2577.1	2613.4							
Fly Lake 7	27 38 30.460	139 56 09.680	Epsilon Fm	2613.4	2626.8							
Fly Lake 7	27 38 30.460	139 56 09.680	Murteree Sh	2626.8	2634.1							
Fly Lake 7	27 38 30.460	139 56 09.680	Patchawarra Fm	2634.1	2882.8							
Fly Lake 8	27 39 16.909	139 56 05.147	Toolachee Fm	2578.9	2614.0							
Fly Lake 8	27 39 16.909	139 56 05.147	Epsilon Fm	2614.0	2629.2							
Fly Lake 8	27 39 16.909	139 56 05.147	Murteree Sh	2629.2	2635.6	0.8	1	0	0	0	0	0
Fly Lake 8	27 39 16.909	139 56 05.147	Patchawarra Fm	2635.6	2890.4	1						
Fly Lake 9	27 38 12.327	139 57 23.744	Toolachee Fm	2583.2	2618.8							
Fly Lake 9	27 38 12.327	139 57 23.744	Epsilon Fm	2618.8	2623.7							
Fly Lake 9	27 38 12.327	139 57 23.744	Murteree Sh	2623.7	2629.8							
Fly Lake 9	27 38 12.327	139 57 23.744	Patchawarra Fm	2629.8	2859.6							
Fortanna 1	28 23 30.069	140 05 25.212	Toolachee Fm	2142.7	2237.2							
Fortanna 1	28 23 30.069	140 05 25.212	Daralingie Fm	2237.2	2297.0							
Fortanna 1	28 23 30.069	140 05 25.212	Roseneath Sh	2297.0	2360.7							
Fortanna 1	28 23 30.069	140 05 25.212	Epsilon Fm	2360.7	2438.4							
Fortanna 1	28 23 30.069	140 05 25.212	Murteree Sh	2438.4	2506.1							
Fortanna 1	28 23 30.069	140 05 25.212	Patchawarra Fm	2506.1	2778.6							
Fulcia 1	27 07 08.680	140 36 11.939	No Permian									
Gahnia 1	28 13 55.134	140 55 48.705	Toolachee Fm	2165.9	2312.8							
Gahnia 1	28 13 55.134	140 55 48.705	Daralingie Fm	2312.8	2350.0							
Gahnia 1	28 13 55.134	140 55 48.705	Roseneath Sh	2350.0	2433.2							
Gahnia 1	28 13 55.134	140 55 48.705	Epsilon Fm	2433.2	2497.8							
Gahnia 1	28 13 55.134	140 55 48.705	Murteree Sh	2497.8	2557.9							
Gahnia 1	28 13 55.134	140 55 48.705	Patchawarra Fm	2557.9	2787.4							
Gamay 1	28 31 55.600	139 55 24.300	Toolachee Fm	1689.2	1700.5							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
1			0	1					
			0	0					
			0	3	23.4				
			0	2	5.6				
			0	0					
			0	4	49.6				
			0	2	15.6				Alginite color photos
			0	0	0				
			0	0					
			0.5	3	37.2				
			2	2	15.6				
			0	0	0				
			0	0					
			4	4	49.6				
			0	2	15.6				
			0	2	5.6				
			0	0					
			2	3	37.2				
			0.5	0.2	1.56				
			0	0	0				
			0	0					
			3	3	37.2				
			0.5	3	23.4			Wood, Benson	
			0	0	0			Wood, Benson	
			0	0				Wood, Benson	
			1	5	62			Wood, Benson	
			0	3	23.4				
			0	0	0				
			0	0					
			0	4	49.6				
			0	1	7.8				
			0	1	1.8				
			0	0					
			0	2	5.6				
			0	0					
			0.5	3	37.2				
			0	3	23.4				
			0	1	1.8				
			0	0					
			0	1	2.8				
			0	0					
			0	4	49.6				
			0	1	7.8				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Gamay 1	28 31 55.600	139 55 24.300	Epsilon Fm	1700.5	1742.8							
Gamay 1	28 31 55.600	139 55 24.300	Murteree Sh	1742.8	1785.2							
Gamay 1	28 31 55.600	139 55 24.300	Patchawarra Fm	1785.2	1835.5							
Garanjanie 1	28 31 03.820	140 04 52.940	Toolachee Fm	1732.5	1816.9	0.7	0	0	0	1	0	0
Garanjanie 1	28 31 03.820	140 04 52.940	Murteree Sh	1816.9	1945.5	0.8	0	0	0	0	0	0
Garanjanie 1	28 31 03.820	140 04 52.940	Roseneath Sh	1902.6	1856.8	0.7	0	1	0	0	0	0
Garanjanie 1	28 31 03.820	140 04 52.940	Patchawarra Fm	1945.5	2120.8	0.9	0	0	0	0	0	0
Garanjanie 1	28 31 03.820	140 04 52.940	Epsilon Fm	2120.8	1902.6	0.8	0	0	0	0	0	0
Garanjanie 2	28 31 34.610	140 04 28.720	Toolachee Fm	1787.7	1814.5		0	0	0	0	0	0
Garanjanie 2	28 31 34.610	140 04 28.720	Daralingie Fm	1814.5	1836.1		0	0	0	0	0	0
Garanjanie 2	28 31 34.610	140 04 28.720	Roseneath Sh	1836.1	1864.5		1	1	0	0	0	0
Garanjanie 2	28 31 34.610	140 04 28.720	Epsilon Fm	1864.5	1919.3		0	2	1	0	0	1
Garanjanie 2	28 31 34.610	140 04 28.720	Murteree Sh	1919.3	1967.2		0	0	0	0	0	0
Garanjanie 2	28 31 34.610	140 04 28.720	Patchawarra Fm	1967.2	2157.4		0	1	1	1	0	0
Garanjanie 2	28 31 34.610	140 04 28.720	Patchawarra Fm	1967.2	2157.4		0	1	1	1	0	0
Garanjanie 3	28 31 56.930	140 03 29.290	Toolachee Fm	1797.1	1827.3		0	0	0	0	0	0
Garanjanie 3	28 31 56.930	140 03 29.290	Daralingie Fm	1827.3	1836.1		0	0	0	0	0	0
Garanjanie 3	28 31 56.930	140 03 29.290	Roseneath Sh	1836.1	1869.0		0	0	0	0	0	0
Garanjanie 3	28 31 56.930	140 03 29.290	Epsilon Fm	1869.0	1931.2		0	0	0	0	0	0
Garanjanie 3	28 31 56.930	140 03 29.290	Murteree Sh	1931.2	1981.2	0.75	0	0	0	0	0	0
Garanjanie 3	28 31 56.930	140 03 29.290	Patchawarra Fm	1981.2	2192.7	1.1	0	1	1	0	0	0
Gidgealpa 16	28 02 20.950	139 59 23.140	Toolachee Fm	2087.9	2128.7	1.0						
Gidgealpa 16	28 02 20.950	139 59 23.140	Patchawarra Fm	2128.7	2201.9	1.0						
Gidgealpa 17	28 00 59.820	139 59 32.360	Toolachee Fm	2091.5	2131.5							
Gidgealpa 17	28 00 59.820	139 59 32.360	Murteree Sh	2131.5	2136.3							
Gidgealpa 17	28 00 59.820	139 59 32.360	Patchawarra Fm	2136.3	2142.7							
Gidgealpa 18	27 57 58.930	140 01 28.050	No Permian									
Gidgealpa 19	28 01 27.920	140 00 30.040	Toolachee Fm	2091.8	2139.1		0	0	0	0	0	0
Gidgealpa 19	28 01 27.920	140 00 30.040	Patchawarra Fm	2139.1	2205.5		0	0	0	0	0	0
Gidgealpa 20	28 01 16.080	139 59 12.780	No Permian									
Gidgealpa 21	28 01 33.000	139 59 26.720	Toolachee Fm	2089.1	2124.5							
Gidgealpa 21	28 01 33.000	139 59 26.720	Patchawarra Fm	2124.5	2222.0							
Gidgealpa 22	28 01 25.240	139 58 39.210	No Permian									
Gidgealpa 23	28 01 47.700	139 58 53.450	Toolachee Fm	2104.3	2139.7							
Gidgealpa 23	28 01 47.700	139 58 53.450	Murteree Sh	2139.7	2142.7							
Gidgealpa 23	28 01 47.700	139 58 53.450	Patchawarra Fm	2142.7	2263.4							
Gidgealpa 24	28 01 07.590	139 59 26.830	No Permian									
Gidgealpa 25	28 00 59.870	139 59 37.360	No Permian									
Gidgealpa 26	28 01 16.080	139 59 26.330	No Permian									
Gidgealpa 27	28 01 44.930	139 57 57.650	Toolachee Fm	2097.0	2135.4							
Gidgealpa 27	28 01 44.930	139 57 57.650	Patchawarra Fm	2135.4	2218.3							
Gidgealpa 28	28 00 55.350	139 59 27.670	No Permian									
Gidgealpa 30	28 01 47.610	139 58 24.220	No Permian									
Gidgealpa 31	28 00 32.890	139 59 04.450	No Permian									
Gidgealpa 32	28 01 00.180	139 59 15.070	No Permian									

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0	0	0				
			0	1					
			0	1	12.4				
1			0	1	7.8			Jones, Wood	
0			0	0				Jones, Wood	
1			0	0				Jones, Wood	
0			1	1	12.4			Jones, Wood	
0			0	1	2.8			Jones, Wood	
0			0	1	7.8			Jones	
0			0	0	0			Jones	
2			0	0				Jones	
4			0	3	8.4			Jones	
0	5		0	0				Jones	
3	2		4.5					Jones	
3	2		0					Jones	
0			0	1	7.8			Jones	
0			0	0	0			Jones	
0			0	0				Jones	
0			0	3	8.4			Jones	
1			0	0				Jones	
2			5	1	12.4			Jones	
			0	2	15.6				
			0	0					
			0	2	24.8				
0			0	4	31.2			Williams	
0			0	2	24.8			Williams	
			1.5	1	7.8				
			1.5	2	24.8				
			0.2	3	23.4				
			0						
			0	2	24.8				
			0	2	15.6				
			0	2	24.8				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Gidgealpa 33	28 02 26.070	139 59 36.850	Toolachee Fm	2083.6	2117.8							
Gidgealpa 33	28 02 26.070	139 59 36.850	Patchawarra Fm	2117.8	2188.5							
Gidgealpa 34	28 02 19.840	139 59 50.220	Toolachee Fm	2081.2	2120.8							
Gidgealpa 34	28 02 19.840	139 59 50.220	Patchawarra Fm	2120.8	2187.2							
Gidgealpa 35	28 00 40.600	140 01 56.540	Toolachee Fm	2119.9	2165.9	0.85	0	0	0	0	0	0
Gidgealpa 35	28 00 40.600	140 01 56.540	Murteree Sh	2165.9	2166.5		0	0	0	0	0	0
Gidgealpa 35	28 00 40.600	140 01 56.540	Patchawarra Fm	2166.5	2257.3	0.9	0	0	0	0	0	0
Gidgealpa 36	28 01 10.414	139 59 19.054	Toolachee Fm	2098.2	2131.2							
Gidgealpa 36	28 01 10.414	139 59 19.054	Murteree Sh	2131.2	2140.3							
Gidgealpa 36	28 01 10.414	139 59 19.054	Patchawarra Fm	2140.3	2261.6							
Gidgealpa 37	28 01 01.291	139 59 30.607	No Permian									
Gidgealpa 38	27 54 57.634	140 02 57.806	Toolachee Fm	2146.4	2172.6	0.8	0	0	0	0	0	0
Gidgealpa 38	27 54 57.634	140 02 57.806	Patchawarra Fm	2172.6	2287.8	1	0	0	0	0	0	0
Gidgealpa 39	27 55 36.169	140 03 22.123	Toolachee Fm	2186.9	2228.7	0.8	0	0	0	0	0	0
Gidgealpa 39	27 55 36.169	140 03 22.123	Murteree Sh	2228.7	2231.7		0	0	0	0	0	0
Gidgealpa 39	27 55 36.169	140 03 22.123	Patchawarra Fm	2231.7	2349.4	1	0	0	0	0	0	0
Gidgealpa 40	28 00 47.457	139 59 10.208	Toolachee Fm	2090.3	2131.8		0	0	0	0	0	0
Gidgealpa 40	28 00 47.457	139 59 10.208	Patchawarra Fm	2131.8	2229.6		0	0	0	0	0	0
Gidgealpa 41	28 02 11.636	140 00 03.079	Toolachee Fm	2090.3	2131.8							
Gidgealpa 41	28 02 11.636	140 00 03.079	Patchawarra Fm	2131.8	2212.5							
Gidgealpa 42	28 01 51.971	139 59 38.642	Toolachee Fm	2086.4	2125.7		0	0	0	0	0	0
Gidgealpa 42	28 01 51.971	139 59 38.642	Patchawarra Fm	2125.7	2208.3		0	0	0	0	0	0
Gidgealpa 43	28 01 25.026	139 59 12.080	Toolachee Fm	2101.0	2139.4							
Gidgealpa 43	28 01 25.026	139 59 12.080	Murteree Sh	2139.4	2141.2							
Gidgealpa 43	28 01 25.026	139 59 12.080	Patchawarra Fm	2141.2	2266.2							
Gidgealpa 45	28 01 36.871	139 59 39.566	No Permian									
Gidgealpa 46	28 00 32.856	139 59 18.593	Toolachee Fm	2090.9	2127.8							
Gidgealpa 46	28 00 32.856	139 59 18.593	Murteree Sh	2127.8	2130.9							
Gidgealpa 46	28 00 32.856	139 59 18.593	Patchawarra Fm	2130.9	2239.4							
Gidgealpa 47	27 57 07.721	140 02 38.338	Toolachee Fm	2044.0	2068.1							
Gidgealpa 50	28 01 13.865	139 59 41.668	No Permian									
Gidgealpa 51	28 00 43.256	140 01 33.232	Toolachee Fm	2132.4	2173.2							
Gidgealpa 51	28 00 43.256	140 01 33.232	Murteree Sh	2173.2	2173.5							
Gidgealpa 51	28 00 43.256	140 01 33.232	Patchawarra Fm	2173.5	2262.2							
Gidgealpa 53	28 00 37.540	140 00 10.480	No Permian									
Gidgealpa 54	28 02 04.904	139 59 32.494	Toolachee Fm	2091.5	2129.3							
Gidgealpa 54	28 02 04.904	139 59 32.494	Patchawarra Fm	2129.3	2217.7							
Gidgealpa 55	28 02 18.426	140 00 03.327	Toolachee Fm	2094.0								
Gidgealpa 56	28 01 50.355	139 59 23.893	No Permian									
Gooranie 1	27 44 16.040	140 04 21.060	No Permian									
Gooranie 2	27 43 16.490	140 04 47.640	Toolachee Fm	2592.6	2630.7							
Gooranie 2	27 43 16.490	140 04 47.640	Epsilon Fm	2630.7	2673.1							
Gooranie 2	27 43 16.490	140 04 47.640	Murteree Sh	2673.1	2687.7							
Gooranie 2	27 43 16.490	140 04 47.640	Patchawarra Fm	2687.7	3024.2							
Gooranie 3	27 44 21.650	140 05 51.550	Epsilon Fm	2205.5	2676.8		0	0	0	0	0	0

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		1.5	3	23.4				
		0	2	24.8				
		4	3	23.4				
		2	3	37.2				
0		1	2	15.6			Wood, Marshall	
0		0	0				Wood, Marshall	
0		4	3	37.2			Wood, Marshall	
		0.5	3	23.4				
		0	0					
		0.2	3	37.2				
0		1	3	23.4			Wood	
0		1	3	37.2			Wood	
0		0	3	23.4			Marshall	
0							Marshall	
0		0	4	49.6			Marshall	
0		0	3	23.4			Wood	
0		0	3	37.2			Wood	
		3	4	31.2				
		1	3	37.2				
0		3	2	15.6			Wood	
0		1	2	24.8			Wood	
		0.5	2	15.6				
		0	1	12.4				
		0	2	15.6				
		1.5	1	12.4				
		0	1	7.8			Marshall	
		0	3	23.4				
		0	1	12.4				
		1.5						
		3.5						
		0.5						
		0	3	23.4				
		0	1	2.8				
		0	0					
		0	4	49.6				
0		0	3	8.4			Wood	

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Gooranie 3	27 44 21.650	140 05 51.550	Toolachee Fm	2596.9	2658.8		0	0	0	0	0	0
Gooranie 3	27 44 21.650	140 05 51.550	Murteree Sh	2658.8	2693.8		0	0	0	0	0	0
Gooranie 3	27 44 21.650	140 05 51.550	Patchawarra Fm	2693.8	3048.6		0	0	0	0	0	0
Goyder 1	28 23 00.400	140 26 16.800	Toolachee Fm	1841.6	1897.1	0.93	0	0	1	0	0	0
Goyder 1	28 23 00.400	140 26 16.800	Roseneath Sh	1897.1	1917.2	0.97	0	0	0	0	1	0
Goyder 1	28 23 00.400	140 26 16.800	Epsilon Fm	1917.2	1957.4	1.09	0	1	0	0	1	0
Goyder 1	28 23 00.400	140 26 16.800	Patchawarra Fm	1957.4	2091.5	1.14	0	0	1	0	1	0
Goyder 1	28 23 00.400	140 26 16.800	Murteree Sh	3048.6	2003.8	0.85	0	0	0	0	1	0
Goyder 2	28 23 26.838	140 26 05.622	Toolachee Fm	1831.2	1875.1	0.8	0	0	0	0	0	0
Goyder 2	28 23 26.838	140 26 05.622	Roseneath Sh	1875.1	1895.6	0.85	0	0	0	0	0	0
Goyder 2	28 23 26.838	140 26 05.622	Epsilon Fm	1895.6	1949.8		0	1	0	0	0	0
Goyder 2	28 23 26.838	140 26 05.622	Murteree Sh	1949.8	1979.1		0	0	0	0	0	0
Goyder 2	28 23 26.838	140 26 05.622	Patchawarra Fm	1979.1	2167.1	0.9	0	1	0	1	0	0
Goyder 3	28 22 50.877	140 25 33.570	Toolachee Fm	1851.4	1902.9							
Goyder 3	28 22 50.877	140 25 33.570	Roseneath Sh	1902.9	1918.7							
Goyder 3	28 22 50.877	140 25 33.570	Epsilon Fm	1918.7	1956.8							
Goyder 3	28 22 50.877	140 25 33.570	Murteree Sh	1956.8	2001.6							
Goyder 3	28 22 50.877	140 25 33.570	Patchawarra Fm	2001.6	2099.5							
Grenache 1	28 16 45.949	140 09 04.734	Daralingie Fm	2091.5	2549.0							
Grenache 1	28 16 45.949	140 09 04.734	Toolachee Fm	2383.5	2476.2							
Grenache 1	28 16 45.949	140 09 04.734	Epsilon Fm	2476.2	2692.0	1						
Grenache 1	28 16 45.949	140 09 04.734	Murteree Sh	2692.0	2763.3							
Grenache 1	28 16 45.949	140 09 04.734	Patchawarra Fm	2763.3	3206.5							
Grenache 1	28 16 45.949	140 09 04.734	Roseneath Sh	3206.5	2607.3							
Grey 1	27 38 28.496	140 00 25.751	No Permian									
Grystes 1	28 23 47.882	140 40 33.470	Toolachee Fm	1932.4	2049.5							
Grystes 1	28 23 47.882	140 40 33.470	Roseneath Sh	2049.5	2118.4							
Grystes 1	28 23 47.882	140 40 33.470	Epsilon Fm	2118.4	2179.3							
Grystes 1	28 23 47.882	140 40 33.470	Murteree Sh	2179.3	2233.6							
Grystes 1	28 23 47.882	140 40 33.470	Patchawarra Fm	2233.6	2281.7							
Gudi 1	27 14 03.590	140 17 28.560	Toolachee Fm	2754.8	2828.5							
Gudi 1	27 14 03.590	140 17 28.560	Epsilon Fm	2828.5	2864.2							
Gudi 1	27 14 03.590	140 17 28.560	Patchawarra Fm	2864.2	2962.4							
Gudnuki 1	28 02 46.335	140 51 51.216	Toolachee Fm	2205.8	2305.5							
Gudnuki 1	28 02 46.335	140 51 51.216	Daralingie Fm	2305.5	2344.5							
Gudnuki 1	28 02 46.335	140 51 51.216	Roseneath Sh	2344.5	2386.9							
Gudnuki 1	28 02 46.335	140 51 51.216	Epsilon Fm	2386.9	2440.5							
Gudnuki 1	28 02 46.335	140 51 51.216	Murteree Sh	2440.5	2490.8							
Gudnuki 1	28 02 46.335	140 51 51.216	Patchawarra Fm	2490.8	2836.5							
Gudnuki 2	28 05 10.660	140 46 53.631	Toolachee Fm	2138.8	2222.3							
Gudnuki 2	28 05 10.660	140 46 53.631	Roseneath Sh	2222.3	2251.9							
Gudnuki 2	28 05 10.660	140 46 53.631	Epsilon Fm	2251.9	2297.6							
Gudnuki 2	28 05 10.660	140 46 53.631	Murteree Sh	2297.6	2350.9							
Gudnuki 2	28 05 10.660	140 46 53.631	Patchawarra Fm	2350.9	2603.0							
Gudnuki 3	28 04 47.090	140 54 57.170	Toolachee Fm	2212.2	2298.8							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0		0	4	31.2			Wood	
0		0	0				Wood	
0		0	4	49.6			Wood	
2		1	2	15.6			Jones, Wood	
1		0	0				Jones, Wood	Photo of Telalginite and inertinite in shale
2		0	1	2.8			Jones, Wood	
2		1	1	12.4			Jones, Wood	
1		0	0				Jones, Wood	
0		0	3	23.4			Wood	
0		0	0				Wood	
1		0	0	0			Wood	
0		0	0				Wood	
2		0	1	12.4			Wood	
		0	2	15.6				
		0	0					
		0	2	5.6				
		0	0					
		0	1	12.4				
		1	3	5.4			Wood	
		2	5	39			Wood	
		2	2	5.6			Wood	
		0	0				Wood	
		2	5	62			Wood	
		0	0				Wood	
		0	2	15.6				
		0	0					
		0	2	5.6				
		0	0					
		0	2	24.8				
		3.5	3	23.4				
		1	3	8.4				
		1.5	2	24.8				
		0	1	7.8				
		0	0	0				
		0	0					
		0	1	2.8				
		0	0					
		0	3	37.2				
		0	2	15.6				
		0	0					
		0	0	0				
		0	0					
		0	3	37.2				
		0	2	15.6				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Gudnuki 3	28 04 47.090	140 54 57.170	Daralingie Fm	2298.8	2350.3							
Gudnuki 3	28 04 47.090	140 54 57.170	Roseneath Sh	2350.3	2421.3							
Gudnuki 3	28 04 47.090	140 54 57.170	Epsilon Fm	2421.3	2468.3							
Gudnuki 3	28 04 47.090	140 54 57.170	Murteree Sh	2468.3	2524.4							
Gudnuki 3	28 04 47.090	140 54 57.170	Patchawarra Fm	2524.4	2758.4							
Curra 1	29 01 23	140 16 33	Epsilon Fm	1256.1								
Curra 1	29 01 23	140 16 33	Patchawarra Fm	1283.2	1335.0		0	0	0	0	0	0
Hackett 1	27 53 50.440	139 57 43.670	Toolachee Fm	2566.4	2640.5		0	0	0	0	0	0
Hackett 1	27 53 50.440	139 57 43.670	Roseneath Sh	2607.3	2663.3		0	1	0	0	0	0
Hackett 1	27 53 50.440	139 57 43.670	Epsilon Fm	2640.5	2724.3		0	0	0	0	0	0
Hackett 1	27 53 50.440	139 57 43.670	Daralingie Fm	2663.3	2646.3		0	0	0	0	0	0
Hackett 1	27 53 50.440	139 57 43.670	Murteree Sh	2724.3	2755.4		0	0	0	0	0	0
Hackett 1	27 53 50.440	139 57 43.670	Patchawarra Fm	2755.4	3215.3		0	0	0	1	0	0
Haddon Downs 1	26 23 49.150	140 35 24.150	No Permian									
Haloragis 1	27 39 06.067	140 19 17.828	No Permian									
Hamlyn 1	27 06 20.377	140 28 18.288	No Permian									
Hollows 1	28 08 19.758	139 33 58.643	Patchawarra Fm	1920.8	2006.2		0	1	1	0	0	0
Hoolendinnie 1	27 31 26.951	139 17 15.544	Toolachee Fm	2069.0	2099.5							
Innamincka 4	27 28 32.940	140 56 20.850	No Permian									
Jack Lake 1	27 56 36.340	139 49 10.390	Toolachee Fm	2461.0	2473.1	0.7	0	0	0	0	0	0
Jack Lake 1	27 56 36.340	139 49 10.390	Daralingie Fm	2473.1	2544.0	0.8						
Jack Lake 1	27 56 36.340	139 49 10.390	Epsilon Fm	2544.0	2605.0	0.76	0	0	0	0	0	0
Jack Lake 1	27 56 36.340	139 49 10.390	Patchawarra Fm	2605.0	2955.0	0.97	0	0	0	0	0	0
Jack Lake 2	27 57 27.150	139 49 49.590	Toolachee Fm	2445.4	2519.5		0	0	0	0	0	0
Jack Lake 2	27 57 27.150	139 49 49.590	Epsilon Fm	2536.2	2589.0		0	0	0	0	0	0
Jack Lake 2	27 57 27.150	139 49 49.590	Patchawarra Fm	2621.3	3055.9		0	0	0	0	0	0
James 1	26 48 49.790	140 50 44.170	No Permian									
Jaspa 1	28 15 40.887	139 47 40.687	No Permian									
Jena 1	28 31 14.700	140 17 56.400	No Permian									
Jena 2	28 30 56.150	140 18 38.080	No Permian									
Jena 3	28 31 25.180	140 19 21.050	No Permian									
Jena 4	28 30 40.120	140 18 03.730	No Permian									
Jena 5	28 30 58.060	140 18 16.280	No Permian									
Jena 6	28 30 25.066	140 18 26.373	No Permian									
Jena 7	28 30 56.286	140 17 59.726	No Permian									
Jena 8	28 30 37.560	140 18 24.934	No Permian									
Jena 9	28 30 29.249	140 17 56.167	No Permian									
Jena 10	28 30 10.169	140 17 24.744	No Permian									
Jena 11	28 30 46.898	140 18 12.291	No Permian									
Jena 12	28 30 15.360	140 18 40.002	No Permian									
Jena 13	28 30 45.915	140 20 07.930	No Permian									
Jennet 1	28 13 44.860	139 27 52.580	No Permian									
Kalanna 1	28 22 05.440	140 24 01.650	Toolachee Fm	2047.3	2122.0	0.9	0	0	0	0	0	0
Kalanna 1	28 22 05.440	140 24 01.650	Murteree Sh	2122.0	2294.8		0	0	0	0	0	0
Kalanna 1	28 22 05.440	140 24 01.650	Epsilon Fm	2183.3	2234.5	1.1	0	0	0	0	0	0

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0	3	5.4				
			0	0					
			0	1	2.8				
			0	0					
			0	3	37.2				
0			0					Paten	
0			0	4	31.2			Wood	
1			0	1				Wood	
0			0	3	8.4			Wood	
0			0	5	9			Wood	
0			0	1				Wood	
1			0	5	62			Wood	
2			0	5	62			Benson	
			0	4	31.2				
0			1	4	31.2		1		
0	1		2.5	4	11.2		1		
0			2	4	49.6		1		
0				2	15.6				
0				2	5.6				
0				2	24.8				
0			0	3	23.4			Wood	
0			0	0				Wood	
0			0	2	5.6			Wood	

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Kalanna 1	28 22 05.440	140 24 01.650	Daralingie Fm	2234.5	2138.5		0	1	1	0	0	0
Kalanna 1	28 22 05.440	140 24 01.650	Patchawarra Fm	2294.8	2539.0	1.4	0	0	0	0	0	0
Kalanna 1	28 22 05.440	140 24 01.650	Roseneath Sh	2539.0	2183.3	1	0	0	0	0	0	0
Kanowana 2	27 47 57.060	139 59 06.520	Toolachee Fm	2556.1	2609.7		0	0	0	0	0	0
Kanowana 2	27 47 57.060	139 59 06.520	Epsilon Fm	2609.7	2681.9		0	0	0	0	0	0
Kanowana 2	27 47 57.060	139 59 06.520	Murteree Sh	2681.9	2697.5		0	0	0	0	0	0
Kanowana 2	27 47 57.060	139 59 06.520	Patchawarra Fm	2697.5	3073.0		0	0	0	0	0	0
Kanowana 3	27 47 39.080	139 57 55.500	Toolachee Fm	2563.1	2622.5							
Kanowana 3	27 47 39.080	139 57 55.500	Epsilon Fm	2622.5	2679.2							
Kanowana 3	27 47 39.080	139 57 55.500	Murteree Sh	2679.2	2695.7							
Kanowana 3	27 47 39.080	139 57 55.500	Patchawarra Fm	2695.7	3076.3							
Kanowana 4	27 47 55.676	139 58 09.838	Epsilon Fm	2138.5	2672.5		0	0	0	0	0	0
Kanowana 4	27 47 55.676	139 58 09.838	Patchawarra Fm	2672.5	3064.8	1	0	1	0	0	0	0
Kanowana 4	27 47 55.676	139 58 09.838	Toolachee Fm	2769.1	2610.0		0	0	0	0	0	0
Kanowana 4	27 47 55.676	139 58 09.838	Murteree Sh	3064.8	2693.5		0	0	0	0	0	0
Kanowana 5	27 48 15.491	139 58 57.143	Toolachee Fm	2543.9	2597.5							
Kanowana 5	27 48 15.491	139 58 57.143	Epsilon Fm	2597.5	2665.5							
Kanowana 5	27 48 15.491	139 58 57.143	Murteree Sh	2665.5	2685.6							
Kanowana 5	27 48 15.491	139 58 57.143	Patchawarra Fm	2685.6	3060.8							
Kanowana 6	27 47 39.317	139 58 23.971	Toolachee Fm	2553.0	2606.6							
Kanowana 6	27 47 39.317	139 58 23.971	Epsilon Fm	2606.6	2669.4							
Kanowana 6	27 47 39.317	139 58 23.971	Murteree Sh	2669.4	2691.4							
Kanowana 6	27 47 39.317	139 58 23.971	Patchawarra Fm	2691.4	3062.6							
Kanowana 7	27 48 14.550	139 58 35.580	No Permian									
Kapinka 1	28 24 43.652	140 43 24.230	Daralingie Fm	2144.0	2070.8		0	0	0	0	0	0
Kapinka 1	28 24 43.652	140 43 24.230	Epsilon Fm	2044.3	2211.6		0	0	0	0	0	0
Kapinka 1	28 24 43.652	140 43 24.230	Murteree Sh	2211.6	2269.2		0	0	0	0	0	0
Kapinka 1	28 24 43.652	140 43 24.230	Patchawarra Fm	2269.2	2387.8	1.1	0	0	0	0	0	0
Kapinka 1	28 24 43.652	140 43 24.230	Roseneath Sh	2387.8	2144.0	0.85	0	0	0	0	0	0
Kapinka 1	28 24 43.652	140 43 24.230	Toolachee Fm	1924.8	2044.3	0.8	0	0	0	0	0	0
Karilla 1	28 16 45.500	139 51 14.130	Toolachee Fm	1873.9	1882.1	0.85	0	1	1	1	1	0
Karilla 1	28 16 45.500	139 51 14.130	Epsilon Fm	1882.1	1982.7	0.95	0	0	1	0	1	0
Karilla 1	28 16 45.500	139 51 14.130	Murteree Sh	1913.8	2017.8	0.9	0	0	0	0	1	0
Karilla 1	28 16 45.500	139 51 14.130	Daralingie Fm	1951.9	1913.8	0.81	0	1	0	0	1	0
Karilla 1	28 16 45.500	139 51 14.130	Roseneath Sh	1982.7	1951.9	0.9	0	1	0	0	1	0
Karilla 1	28 16 45.500	139 51 14.130	Patchawarra Fm	2017.8	2101.3	1.03	0	0	0	0	1	0
Karina Southwest 1	28 19 21.406	139 51 33.206	Toolachee Fm	1904.7	1936.4	0.75	1	1	0	0	0	1
Karina Southwest 1	28 19 21.406	139 51 33.206	Epsilon Fm	1936.4	2043.7	0.75	0	0	0	0	0	0
Karina Southwest 1	28 19 21.406	139 51 33.206	Roseneath Sh	1956.5	1996.7		0	0	0	0	0	0
Karina Southwest 1	28 19 21.406	139 51 33.206	Murteree Sh	2043.7	2077.2		0	0	0	0	0	0
Karina Southwest 1	28 19 21.406	139 51 33.206	Daralingie Fm	2077.2	1956.5	0.75	0	0	0	0	0	0
Karina Southwest 1	28 19 21.406	139 51 33.206	Patchawarra Fm	2101.3	2190.0	0.85	0	2	1	0	0	0
Katingawa 1	28 11 11.552	140 47 28.024	Daralingie Fm	1996.7	2375.6		0	0	0	0	0	0
Katingawa 1	28 11 11.552	140 47 28.024	Toolachee Fm	2239.7	2358.2		0	0	0	0	0	0
Katingawa 1	28 11 11.552	140 47 28.024	Epsilon Fm	2358.2	2524.4		0	0	0	0	0	0

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
2		0	0	0			Wood	
0		0	2	24.8			Wood	
0		0	2				Wood	
0		0	2	15.6			Wood	
0		0	2	5.6			Wood	
0		0	0				Wood	
0		0	4	49.6			Wood	
		0	2	15.6				
		0	1	2.8				
		0	0					
		0	4	49.6				
0			2	5.6			Wood	
1			2	24.8			Wood	
0			1	7.8			Wood	
0			0				Wood	
		0	2	15.6				
		0	1	2.8				
		0	0					
		0	3	37.2				
		0	2	15.6				
		0	1	2.8				
		0	0					
		0	5	62				
0		0	1	1.8			Wood	
0		0	1	2.8			Wood	
0		0	0				Wood	
0		1	1	12.4			Wood	
0		0	0				Wood	
0		0.5	1	7.8			Wood	
4		0	2	15.6			Wood	
2		0	3	8.4			Wood	
1		0	0				Wood	
2		0	2	3.6			Wood	
2		0	1				Wood	
1		1	3	37.2			Wood	
3		0	4	31.2			Benson	
0		0	1	2.8			Benson	
0		0	0				Benson	
0		0	0				Benson	
0		0	3	5.4			Benson	
3		1	2	24.8			Benson	
0		0	1	1.8			Wood	
0		0	2	15.6			Wood	
0		0	0	0			Wood	

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Katingawa 1	28 11 11.552	140 47 28.024	Murteree Sh	2524.4	2603.0		0	0	0	0	0	0
Katingawa 1	28 11 11.552	140 47 28.024	Patchawarra Fm	2603.0	3024.2		0	0	0	0	0	0
Katingawa 1	28 11 11.552	140 47 28.024	Roseneath Sh	3024.2	2459.1		0	0	0	0	0	0
Katingawa 1 DW1	28 11 11.550	140 47 28.020	Toolachee Fm	2239.7	2344.5							
Katingawa 1 DW1	28 11 11.550	140 47 28.020	Daralingie Fm	2344.5	2395.7							
Katingawa 1 DW1	28 11 11.550	140 47 28.020	Roseneath Sh	2395.7	2456.7							
Katingawa 1 DW1	28 11 11.550	140 47 28.020	Epsilon Fm	2456.7	2525.6							
Katingawa 1 DW1	28 11 11.550	140 47 28.020	Murteree Sh	2525.6	2598.4							
Katingawa 1 DW1	28 11 11.550	140 47 28.020	Patchawarra Fm	2598.4	3024.2							
Keena 1	28 11 54.880	139 53 36.750	Toolachee Fm	1882.4	1902.6	1.0						
Keena 1	28 11 54.880	139 53 36.750	Patchawarra Fm	1902.6		1.0						
Keena 2	28 12 10.820	139 53 19.330	Patchawarra Fm	1950.1	1962.3		5	0	0	0	0	0
Keena 3	28 11 37.144	139 54 07.684	Toolachee Fm	1889.8	1920.8	0.8	0	0	0	0	0	1
Keena 3	28 11 37.144	139 54 07.684	Patchawarra Fm	1920.8	1996.1	0.8	1	0	1	0	0	0
Keeto 1	28 27 25.520	140 43 39.300	Toolachee Fm	1870.9	1984.2	1.01	0	0	1	0	0	0
Keeto 1	28 27 25.520	140 43 39.300	Daralingie Fm	1984.2	2008.9	1	0	1	0	0	0	0
Keeto 1	28 27 25.520	140 43 39.300	Murteree Sh	2008.9	2207.7	1.12	0	0	0	0	0	0
Keeto 1	28 27 25.520	140 43 39.300	Epsilon Fm	2082.7	2148.8	1.12	0	0	0	0	0	0
Keeto 1	28 27 25.520	140 43 39.300	Patchawarra Fm	2207.7	2292.7	1.16	0	0	0	0	0	0
Keeto 1	28 27 25.520	140 43 39.300	Roseneath Sh	2292.7	2082.7	0.96	0	0	0	0	0	0
Keeto 2	28 26 52.928	140 43 32.444	Toolachee Fm	1858.7	1976.0		1	1	1	1	0	0
Keeto 2	28 26 52.928	140 43 32.444	Daralingie Fm	1976.0	2011.1		1	1	0	0	0	0
Keeto 2	28 26 52.928	140 43 32.444	Roseneath Sh	2011.1	2058.6		0	0	0	0	0	0
Keeto 2	28 26 52.928	140 43 32.444	Epsilon Fm	2058.6	2123.2		0	1	0	0	0	0
Keeto 2	28 26 52.928	140 43 32.444	Murteree Sh	2123.2	2175.7		0	0	0	0	0	0
Keeto 2	28 26 52.928	140 43 32.444	Patchawarra Fm	2175.7	2279.6		1	0	1	1	0	0
Keleary 1	27 04 27.968	140 40 59.494	No Permian									
Keleary 2	27 03 54.670	140 40 47.988	No Permian									
Keleary 3	27 04 06.873	140 40 56.274	No Permian									
Kenny 1	26 59 19.770	140 48 00.310	Toolachee Fm	2835.6	2877.9	1.3	0	0	1	0	0	0
Kerinna 1	28 22 24.200	140 31 32.580	Toolachee Fm	1682.5	1727.6		0	0	0	0	0	0
Kerinna 1	28 22 24.200	140 31 32.580	Patchawarra Fm	1727.6	1801.1		0	0	0	0	0	0
Kerna 1	28 14 01.680	140 58 17.130	Toolachee Fm	2097.6	2270.8	1.3						
Kerna 1	28 14 01.680	140 58 17.130	Roseneath Sh	2270.8	2339.3	1.3						
Kerna 1	28 14 01.680	140 58 17.130	Epsilon Fm	2339.3	2395.1	1.3						
Kerna 1	28 14 01.680	140 58 17.130	Murteree Sh	2395.1	2450.6	1.2						
Kerna 1	28 14 01.680	140 58 17.130	Patchawarra Fm	2450.6		1.6						
Kerna 2	28 14 00.880	140 59 07.950	No Permian									
Kerna 3	28 14 24.650	140 58 30.430	Toolachee Fm	2081.5	2228.1							
Kerna 3	28 14 24.650	140 58 30.430	Daralingie Fm	2228.1	2248.5							
Kerna 3	28 14 24.650	140 58 30.430	Roseneath Sh	2248.5	2317.7							
Kerna 3	28 14 24.650	140 58 30.430	Epsilon Fm	2317.7	2372.0							
Kerna 3	28 14 24.650	140 58 30.430	Murteree Sh	2372.0	2424.4							
Kerna 3	28 14 24.650	140 58 30.430	Patchawarra Fm	2424.4	2526.5							
Kerna 4	28 15 28.980	140 58 45.360	Toolachee Fm	2088.8	2244.9							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0		0	0				Wood	
0		0	1	12.4			Wood	
0		0	0				Wood	
		0	3	23.4				
		0	1	1.8				
		0	0					
		0	1	2.8				
		0	0					
		0	1	12.4				
		2						
		0.5						
5							Paly	
1		0	1	7.8			Marshall	
2		1	2	24.8			Marshall	
1		0	4	31.2			Wood	
1		0	3	5.4			Wood	
0		0	0				Wood	
0		0	0	0			Wood	
0		0	1	12.4			Wood	
0		0	0				Wood	
4		0	4	31.2			Marshall, Wood	
2		0	2	3.6			Marshall, Wood	
0		0	0				Marshall, Wood	
1		0	1	2.8			Marshall, Wood	
0		0	0				Marshall, Wood	
3		0	1	12.4			Marshall, Wood	
1		0	5	39			Williams	
0		0	1	7.8			Wood, Williams	
0		0	1	12.4			Wood, Williams	
		1						
		0	3	23.4				
		0	0	0				
		0	0					
		0	1	2.8				
		0	0					
		0	2	24.8				
		0	2	15.6				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Kerna 4	28 15 28.980	140 58 45.360	Daralingie Fm	2244.9	2271.4							
Kerna 4	28 15 28.980	140 58 45.360	Roseneath Sh	2271.4	2352.1							
Kerna 4	28 15 28.980	140 58 45.360	Epsilon Fm	2352.1	2400.9							
Kerna 4	28 15 28.980	140 58 45.360	Murteree Sh	2400.9	2457.9							
Kerna 4	28 15 28.980	140 58 45.360	Patchawarra Fm	2457.9	2593.5							
Kerna 5	28 14 56.315	140 58 49.675	Toolachee Fm	2080.9	2227.2							
Kerna 5	28 14 56.315	140 58 49.675	Daralingie Fm	2227.2	2251.3							
Kerna 5	28 14 56.315	140 58 49.675	Roseneath Sh	2251.3	2329.9							
Kerna 5	28 14 56.315	140 58 49.675	Epsilon Fm	2329.9	2386.6							
Kerna 5	28 14 56.315	140 58 49.675	Murteree Sh	2386.6	2441.8							
Kerna 5	28 14 56.315	140 58 49.675	Patchawarra Fm	2441.8	3406.8							
Kerna 6	28 14 28.310	140 58 30.346	Toolachee Fm	2080.0	2226.6							
Kerna 6	28 14 28.310	140 58 30.346	Daralingie Fm	2226.6	2240.6							
Kerna 6	28 14 28.310	140 58 30.346	Roseneath Sh	2240.6	2316.5							
Kerna 6	28 14 28.310	140 58 30.346	Epsilon Fm	2316.5	2368.0							
Kerna 6	28 14 28.310	140 58 30.346	Murteree Sh	2368.0	2421.9							
Kerna 6	28 14 28.310	140 58 30.346	Patchawarra Fm	2421.9	2526.8							
Kerna 7	28 13 45.520	140 58 39.260	No Permian									
Kerna North 1	28 12 32.431	140 57 47.771	Daralingie Fm	1801.1	2369.2							
Kerna North 1	28 12 32.431	140 57 47.771	Toolachee Fm	2164.7	2328.1							
Kerna North 1	28 12 32.431	140 57 47.771	Epsilon Fm	2328.1	2502.4							
Kerna North 1	28 12 32.431	140 57 47.771	Murteree Sh	2502.4	2568.9							
Kerna North 1	28 12 32.431	140 57 47.771	Patchawarra Fm	2568.9	2790.7							
Kerna North 1	28 12 32.431	140 57 47.771	Roseneath Sh	2790.7	2443.9							
Kidman 1	28 14 23.380	140 49 19.580	Toolachee Fm	1940.7	2057.4							
Kidman 1	28 14 23.380	140 49 19.580	Daralingie Fm	2057.4	2061.4							
Kidman 1	28 14 23.380	140 49 19.580	Roseneath Sh	2061.4	2094.6							
Kidman 1	28 14 23.380	140 49 19.580	Epsilon Fm	2094.6	2149.4							
Kidman 1	28 14 23.380	140 49 19.580	Murteree Sh	2149.4	2194.6							
Kidman 1	28 14 23.380	140 49 19.580	Patchawarra Fm	2194.6	1957.4							
Kidman 2	28 14 22.560	140 47 03.620	Toolachee Fm	1957.4	2062.9	1.2						
Kidman 2	28 14 22.560	140 47 03.620	Daralingie Fm	2062.9	2069.0							
Kidman 2	28 14 22.560	140 47 03.620	Roseneath Sh	2069.0	2095.5							
Kidman 2	28 14 22.560	140 47 03.620	Epsilon Fm	2095.5	2132.4	1.1						
Kidman 2	28 14 22.560	140 47 03.620	Murteree Sh	2132.4	2173.5							
Kidman 2	28 14 22.560	140 47 03.620	Patchawarra Fm	2173.5		1.2						
Kidman 3	28 15 22.370	140 48 19.100	Toolachee Fm	1942.8	2058.9							
Kidman 3	28 15 22.370	140 48 19.100	Daralingie Fm	2058.9	2064.4							
Kidman 3	28 15 22.370	140 48 19.100	Roseneath Sh	2064.4	2109.8							
Kidman 3	28 15 22.370	140 48 19.100	Epsilon Fm	2109.8	2154.3							
Kidman 3	28 15 22.370	140 48 19.100	Murteree Sh	2154.3	2202.5							
Kidman 3	28 15 22.370	140 48 19.100	Patchawarra Fm	2202.5	2274.4							
Kidman 4	28 15 01.460	140 49 11.670	Toolachee Fm	1962.3	2084.2							
Kidman 4	28 15 01.460	140 49 11.670	Daralingie Fm	2084.2	2087.9							
Kidman 4	28 15 01.460	140 49 11.670	Roseneath Sh	2087.9	2145.2							

Table 2 Alginite Database

[illegible]

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Kidman 4	28 15 01.460	140 49 11.670	Epsilon Fm	2145.2	2191.5							
Kidman 4	28 15 01.460	140 49 11.670	Murteree Sh	2191.5	2243.3							
Kidman 4	28 15 01.460	140 49 11.670	Patchawarra Fm	2243.3	2400.0							
Kidman 5	28 13 48.710	140 46 29.600	Toolachee Fm	1944.0	2059.8		0	0	1	0	0	0
Kidman 5	28 13 48.710	140 46 29.600	Epsilon Fm	2059.8	2100.1		0	1	1	1	0	0
Kidman 5	28 13 48.710	140 46 29.600	Patchawarra Fm	2100.1	2198.2		0	0	0	0	0	0
Kidman 5	28 13 48.710	140 46 29.600	Roseneath Sh	2198.2	2062.9		0	0	0	0	0	0
Kidman 5	28 13 48.710	140 46 29.600	Murteree Sh	2443.9	2142.1		0	0	0	0	0	0
Kidman 6	28 14 06.480	140 49 57.140	Toolachee Fm	1992.2	2121.7							
Kidman 6	28 14 06.480	140 49 57.140	Roseneath Sh	2121.7	2154.3							
Kidman 7	28 14 45.469	140 47 14.735	Toolachee Fm	1937.9	2057.4							
Kidman 7	28 14 45.469	140 47 14.735	Roseneath Sh	2057.4	2083.6							
Kidman 7	28 14 45.469	140 47 14.735	Epsilon Fm	2083.6	2124.5							
Kidman 7	28 14 45.469	140 47 14.735	Murteree Sh	2124.5	2169.9							
Kidman 7	28 14 45.469	140 47 14.735	Patchawarra Fm	2169.9	2223.8							
Kidman 8	28 15 47.006	140 48 26.351	Toolachee Fm	1939.1	2054.4							
Kidman 8	28 15 47.006	140 48 26.351	Daralingie Fm	2054.4	2061.7							
Kidman 8	28 15 47.006	140 48 26.351	Roseneath Sh	2061.7	2108.3							
Kidman 8	28 15 47.006	140 48 26.351	Epsilon Fm	2108.3	2156.8							
Kidman 8	28 15 47.006	140 48 26.351	Murteree Sh	2156.8	2202.2							
Kidman 8	28 15 47.006	140 48 26.351	Patchawarra Fm	2202.2	2277.5							
Kidman 9	28 13 59.938	140 48 59.734	Toolachee Fm	1954.1	2072.0							
Kidman 9	28 13 59.938	140 48 59.734	Roseneath Sh	2072.0	2111.0							
Kidman 9	28 13 59.938	140 48 59.734	Epsilon Fm	2111.0	2149.4							
Kidman 9	28 13 59.938	140 48 59.734	Murteree Sh	2149.4	2194.9							
Kidman 9	28 13 59.938	140 48 59.734	Patchawarra Fm	2194.9	2286.9							
Kidman 10	28 13 50.654	140 46 13.521	Toolachee Fm	1942.2	2045.8							
Kidman 10	28 13 50.654	140 46 13.521	Epsilon Fm	2045.8	2089.1							
Kidman 10	28 13 50.654	140 46 13.521	Murteree Sh	2089.1	2130.6							
Kidman 10	28 13 50.654	140 46 13.521	Patchawarra Fm	2130.6	2165.0							
Kidman North 1	28 12 29.680	140 48 28.120	Toolachee Fm	1976.3	2077.5	1.1	0	0	1	0	0	0
Kidman North 1	28 12 29.680	140 48 28.120	Roseneath Sh	2077.5	2087.9	1.1	0	0	0	0	0	0
Kidman North 1	28 12 29.680	140 48 28.120	Epsilon Fm	2087.9	2129.3		0	0	0	0	0	0
Kidman North 1	28 12 29.680	140 48 28.120	Murteree Sh	2129.3	2172.3	1.2	0	1	0	0	0	0
Kidman North 1	28 12 29.680	140 48 28.120	Patchawarra Fm	2172.3	2278.4	1.35	0	0	0	0	0	0
Kidman North 2	28 11 58.060	140 48 13.770	Toolachee Fm	1989.7	2088.5	1.2						
Kidman North 2	28 11 58.060	140 48 13.770	Roseneath Sh	2088.5	2095.2							
Kidman North 2	28 11 58.060	140 48 13.770	Epsilon Fm	2095.2	2133.0	1.2						
Kidman North 2	28 11 58.060	140 48 13.770	Murteree Sh	2133.0	2173.5	1.2						
Kidman North 2	28 11 58.060	140 48 13.770	Patchawarra Fm	2173.5	2282.0							
Kirby 1	27 39 36.23	140 49 17.36	Toolachee Fm	2652.7	2732.2	2.1						
Kirby 1	27 39 36.23	140 49 17.36	Daralingie Fm	2732.2	2813.3	2.3						
Kirby 1	27 39 36.23	140 49 17.36	Roseneath Sh	2813.3	2868.8							
Kirby 1	27 39 36.23	140 49 17.36	Epsilon Fm	2868.8	3019.3	2.6						
Kirby 1	27 39 36.23	140 49 17.36	Murteree Sh	3019.3	3088.8							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0	1	2.8				
			0	0					
			0.5	2	24.8				
1			0	1	7.8			Jones, Wood	
3			0	1	2.8			Jones, Wood	
0			1	1	12.4			Jones, Wood	
0			0	0				Jones, Wood	
0			0	0				Jones, Wood	
			0	5	39				
			0	0					
			0	2	15.6				
			0	0					
			2	0	0				
			0	0					
			3	0	0				
			0	2	15.6				
			0	0	0				
			0	0					
			0	1	2.8				
			0	0					
			2	2	24.8				
			0	1	7.8				
			0	0					
			0	0	0				
			0	0					
			0.2	1	12.4				
			0	2	15.6				
			0	0	0				
			0	0					
			0	1	12.4				
1		1	0	3	23.4			Jones, Wood	
0			0	0				Jones, Wood	
0			1	0	0			Jones, Wood	
1			0	0				Jones, Wood	
0			0	2	24.8			Jones, Wood	
			0	4	31.2				
			0	0					
			0	0	0				
			0	0					
			0	1	12.4				
			0						gas show
			0						gas show
			0						
			0						gas show
			0						

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Kirby 1	27 39 36.23	140 49 17.36	Patchawarra Fm	3088.8	3769.8	5						
Kirby 2	27 38 53.643	140 51 05.162	Toolachee Fm	2740.5	2769.4		0	2	0	0	0	0
Kirby 2	27 38 53.643	140 51 05.162	Daralingie Fm	2779.8	2843.5		0	1	0	0	0	0
Kirralee 1	28 08 07.790	140 01 42.480	Daralingie Fm	2062.9	2482.9							
Kirralee 1	28 08 07.790	140 01 42.480	Toolachee Fm	2395.4	2448.8							
Kirralee 1	28 08 07.790	140 01 42.480	Epsilon Fm	2448.8	2569.5							
Kirralee 1	28 08 07.790	140 01 42.480	Murteree Sh	2569.5	2619.5							
Kirralee 1	28 08 07.790	140 01 42.480	Patchawarra Fm	2619.5	3035.5							
Kirralee 1	28 08 07.790	140 01 42.480	Roseneath Sh	3035.5	2533.5							
Kiwarriack 1	28 36 19.280	140 22 11.610	Toolachee Fm	1622.5	1633.7	0.8	0	0	0	0	1	
Kiwarriack 1	28 36 19.280	140 22 11.610	Roseneath Sh	1633.7	1640.4		0	0	0	0	0	0
Kiwarriack 1	28 36 19.280	140 22 11.610	Epsilon Fm	1640.4	1692.2	0.85	1	1	1	0	0	0
Kiwarriack 1	28 36 19.280	140 22 11.610	Murteree Sh	1692.2	1741.3	0.84	1	0	1	0	1	0
Kiwarriack 1	28 36 19.280	140 22 11.610	Patchawarra Fm	1783.1	1792.2	0.85	1	0	1	0	5	0
Kobari 1	28 40 58.770	140 16 43.200	Murteree Sh	1577.0	1594.1	0.6	0	0	0	0	1	0
Kobari 1	28 40 58.770	140 16 43.200	Patchawarra Fm	1594.1	1749.6	0.7	0	0	0	0	1	0
Koonchera 1	27 07 37.380	139 23 42.850	No Permian									
Kopi 1	28 26 21.186	140 06 41.717	Toolachee Fm	2048.9	2065.6		0	0	0	0	0	0
Kopi 1	28 26 21.186	140 06 41.717	Daralingie Fm	2072.6	2072.6		0	0	0	0	0	0
Kopi 1	28 26 21.186	140 06 41.717	Roseneath Sh	2203.7	2203.7		0	0	0	0	0	0
Kopi 1	28 26 21.186	140 06 41.717	Patchawarra Fm	2325.6	2484.1		0	0	0	0	0	0
Koree 1	28 26 18.665	139 58 33.837	Toolachee Fm	1924.5	1969.3	0.75	1	0	0	0	0	0
Koree 1	28 26 18.665	139 58 33.837	Epsilon Fm	1969.3	2124.5		0	0	0	0	0	0
Koree 1	28 26 18.665	139 58 33.837	Murteree Sh	2008.0	2175.4		0	0	0	0	0	0
Koree 1	28 26 18.665	139 58 33.837	Patchawarra Fm	2124.5	2277.5	1	0	0	1	0	0	0
Koree 1	28 26 18.665	139 58 33.837	Roseneath Sh	2175.4	2065.3		0	0	0	0	0	0
Koree 1	28 26 18.665	139 58 33.837	Daralingie Fm	2277.5	2008.0	0.8	1	0	0	0	0	0
Koree South 1	28 27 15.473	139 57 51.906	Toolachee Fm	1891.6	1937.9							
Koree South 1	28 27 15.473	139 57 51.906	Epsilon Fm	1937.9	2081.2		0	0	0	0	0	0
Koree South 1	28 27 15.473	139 57 51.906	Murteree Sh	2021.7	2131.5		0	0	0	0	0	0
Koree South 1	28 27 15.473	139 57 51.906	Roseneath Sh	2081.2	2021.7	0.8	0	1	0	0	0	0
Koree South 1	28 27 15.473	139 57 51.906	Patchawarra Fm	2131.5	2259.5	0.9	0	1	1	1	0	0
Koree South 1	28 27 15.473	139 57 51.906	Daralingie Fm	2259.5	1967.5							
Kudrieke 2	27 28 24.370	140 10 21.100	Toolachee Fm	2805.1	2834.6							
Kudrieke 2	27 28 24.370	140 10 21.100	Epsilon Fm	2834.6	2870.0							
Kudrieke 2	27 28 24.370	140 10 21.100	Murteree Sh	2870.0	2889.5							
Kudrieke 2	27 28 24.370	140 10 21.100	Patchawarra Fm	2889.5	3002.0							
Kuenpinnie 1	27 57 23.891	139 34 48.443	No Permian									
Kujani 1	28 29 58.530	139 58 42.140	Toolachee Fm	1776.4	1821.5		0	0	0	0	0	0
Kujani 1	28 29 58.530	139 58 42.140	Epsilon Fm	1821.5	1939.1	0.7	0	0	0	0	0	0
Kujani 1	28 29 58.530	139 58 42.140	Roseneath Sh	1830.0	1888.8	0.65	0	0	0	0	0	0
Kujani 1	28 29 58.530	139 58 42.140	Murteree Sh	1939.1	1986.1	0.7	0	0	0	0	0	0
Kujani 1	28 29 58.530	139 58 42.140	Patchawarra Fm	1986.1	2087.3	0.75	0	0	0	0	0	0
Kujani 1	28 29 58.530	139 58 42.140	Daralingie Fm	2087.3	1830.0	0.6	0	0	0	0	0	0
Kujani 2	28 30 17.831	139 59 20.854	Toolachee Fm	1773.9	1834.3							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0						gas show
2			0	2	15.6			Wood	
1			0	1	1.8			Wood	
			0	5	9				
			0	5	39				
			0	2	5.6				
			0	1					
			0	5	62				
			0	0					
1	1		1				5	Williams	
0								Williams	
3							5	Williams	
3			1			20	5	Williams	
7	5			5	62	35	5	Williams	Torbanite
1	1			1					
1	1			5	62	11			
0				5	39				
0				3	5.4				
0				0					
0				2	24.8			Wood, Marshall	
1			0	5	39			Wood, Marshall	
0			0	2	5.6			Wood, Marshall	
0			0	0				Wood, Marshall	
1			1	3	37.2			Wood, Marshall	
0			0	0				Wood, Marshall	
1			0	3	5.4			Wood, Marshall	
			0	4	31.2			Wood, Marshall	
0			0	2	5.6			Wood, Marshall	
0			0	0				Wood, Marshall	
1			0	0				Wood, Marshall	
3			1	3	37.2			Wood, Marshall	
			0	4	7.2			Wood, Marshall	
			0	4	31.2				
			0	0	0				
			0	0					
			0	2	24.8				
0			0	1	7.8			Wood	
0			0	1	2.8			Wood	
0			0	0				Wood	
0			0	1				Wood	
0			0	2	24.8			Wood	
0			0	3	5.4			Wood	
			0	1	7.8				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Kujani 2	28 30 17.831	139 59 20.854	Epsilon Fm	1834.3	1950.1							
Kujani 2	28 30 17.831	139 59 20.854	Murteree Sh	1843.4	2003.1							
Kujani 2	28 30 17.831	139 59 20.854	Daralingie Fm	1950.1	1843.4							
Kujani 2	28 30 17.831	139 59 20.854	Patchawarra Fm	2003.1	2136.6							
Kujani 2	28 30 17.831	139 59 20.854	Roseneath Sh	2136.6	1899.5							
Kultarr 1	28 26 10.888	140 59 44.667	Toolachee Fm	1891.6	2022.0							
Kultarr 1	28 26 10.888	140 59 44.667	Daralingie Fm	2022.0	2080.0							
Kultarr 1	28 26 10.888	140 59 44.667	Roseneath Sh	2080.0	2114.7							
Kultarr 1	28 26 10.888	140 59 44.667	Epsilon Fm	2114.7	2171.4							
Kultarr 1	28 26 10.888	140 59 44.667	Murteree Sh	2171.4	2238.1							
Kultarr 1	28 26 10.888	140 59 44.667	Patchawarra Fm	2238.1	2422.6							
Kurunda 1	28 04 07.160	139 55 20.140	Epsilon Fm	1899.5	2269.2	0.8	1	0	1	0	0	1
Kurunda 1	28 04 07.160	139 55 20.140	Toolachee Fm	2207.4	2245.8	0.8	0	0	0	0	0	0
Kurunda 1	28 04 07.160	139 55 20.140	Patchawarra Fm	2245.8	2530.4	1.1	0	0	1	0	0	0
Kurunda 1	28 04 07.160	139 55 20.140	Murteree Sh	2269.2	2296.7	0.85	1	0	0	0	0	0
Kurunda 2	28 04 37.900	139 54 45.610	Toolachee Fm	2200.7	2236.0							
Kurunda 2	28 04 37.900	139 54 45.610	Epsilon Fm	2236.0	2275.6							
Kurunda 2	28 04 37.900	139 54 45.610	Murteree Sh	2275.6	2302.2							
Kurunda 2	28 04 37.900	139 54 45.610	Patchawarra Fm	2302.2	2506.7							
Kurunda 3	28 04 12.820	139 55 02.600	Toolachee Fm	2196.4	2233.6		0	0	0	0	0	0
Kurunda 3	28 04 12.820	139 55 02.600	Murteree Sh	2233.6	2283.6		0	0	0	0	0	0
Kurunda 3	28 04 12.820	139 55 02.600	Patchawarra Fm	2283.6	2492.3	0.9	0	0	0	0	0	0
Kurunda 3	28 04 12.820	139 55 02.600	Epsilon Fm	2492.3	2262.2	0.8	0	0	0	0	0	0
Kurunda 4	28 04 27.270	139 55 14.490	Toolachee Fm	2204.6	2240.9							
Kurunda 4	28 04 27.270	139 55 14.490	Epsilon Fm	2240.9	2271.4							
Kurunda 4	28 04 27.270	139 55 14.490	Murteree Sh	2271.4	2293.6							
Kurunda 4	28 04 27.270	139 55 14.490	Patchawarra Fm	2293.6	2530.4							
Kurunda 5	28 04 21.897	139 54 39.243	Toolachee Fm	2229.6	2261.0							
Kurunda 5	28 04 21.897	139 54 39.243	Epsilon Fm	2261.0	2317.7							
Kurunda 5	28 04 21.897	139 54 39.243	Murteree Sh	2317.7	2345.7							
Kurunda 5	28 04 21.897	139 54 39.243	Patchawarra Fm	2345.7	2504.8							
Lake MacMillan 1	27 29 01.710	140 12 58.760	Epsilon Fm	2262.2	2941.3	0.8	0	0	0	0	0	0
Lake MacMillan 1	27 29 01.710	140 12 58.760	Toolachee Fm	2866.9	2922.1	0.8	0	0	0	0	0	0
Lake MacMillan 1	27 29 01.710	140 12 58.760	Murteree Sh	2922.1	2962.7	0.8	0	0	0	0	0	0
Lake MacMillan 1	27 29 01.710	140 12 58.760	Patchawarra Fm	2962.7	3115.7	0.85	0	0	0	0	0	0
Lake MacMillan 2	27 28 17.610	140 13 23.470	Toolachee Fm	2868.8	2910.8	0.9	0	0	0	0	0	0
Lake MacMillan 2	27 28 17.610	140 13 23.470	Epsilon Fm	2910.8	2940.7	1	0	0	0	0	0	0
Lake MacMillan 2	27 28 17.610	140 13 23.470	Murteree Sh	2940.7	2959.0	0.9	0	0	0	0	0	0
Lake MacMillan 2	27 28 17.610	140 13 23.470	Patchawarra Fm	2959.0	3121.2	1.1	0	0	0	0	0	0
Lamdina 1	27 21 33.940	140 23 19.650	Toolachee Fm	2974.2	3021.2	1.3						
Lamdina 1	27 21 33.940	140 23 19.650	Epsilon Fm	3021.2	3035.2	1.2						
Lamdina 1	27 21 33.940	140 23 19.650	Murteree Sh	3035.2	3045.3							
Lamdina 1	27 21 33.940	140 23 19.650	Patchawarra Fm	3045.3		1.3						
Lamdina 2	27 20 55.264	140 23 47.014	No Permian									
Leleptian 1	27 45 25.770	139 56 43.330	Toolachee Fm	2607.0	2667.3							

Table 2 Alginite Database

[illegible]

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Leleptian 1	27 45 25.770	139 56 43.330	Murteree Sh	2667.3	2703.6							
Leleptian 1	27 45 25.770	139 56 43.330	Patchawarra Fm	2703.6	3063.5							
Leleptian 1	27 45 25.770	139 56 43.330	Epsilon Fm	3121.2	2688.3							
Leleptian 2	27 44 32.260	139 57 27.080	Toolachee Fm	2626.5	2681.6							
Leleptian 2	27 44 32.260	139 57 27.080	Epsilon Fm	2681.6	2715.2							
Leleptian 2	27 44 32.260	139 57 27.080	Murteree Sh	2715.2	2730.1							
Leleptian 2	27 44 32.260	139 57 27.080	Patchawarra Fm	2730.1	3088.5							
Lepena 1	28 11 52.120	140 42 19.700	Toolachee Fm	1984.2	2030.3							
Lepena 1	28 11 52.120	140 42 19.700	Patchawarra Fm	2030.3	2245.5							
Lepena 1	28 11 52.120	140 42 19.700	Murteree Sh	2245.5	2064.1							
Lepena 2	28 12 21.608	140 41 11.670	Toolachee Fm	2023.6	2035.8		0	0	0	0	0	0
Lepena 2	28 12 21.608	140 41 11.670	Patchawarra Fm	2126.3	2150.4		0	0	0	0	0	0
Lhotsky 1	27 53 03.040	139 20 52.470	No Permian									
Limestone Creek 1	28 31 08.300	140 23 07.620	No Permian									
Limestone Creek 2	28 30 58.510	140 24 15.450	No Permian									
Limestone Creek 3	28 30 29.820	140 22 12.410	No Permian									
Limestone Creek 4	28 32 07.080	140 23 09.310	No Permian									
Limestone Creek 5	28 32 43.440	140 21 13.770	No Permian									
Limestone Creek 6	28 30 20.810	140 23 12.810	No Permian									
Limestone Creek 7	28 31 03.670	140 23 41.510	No Permian									
Limestone Creek 8	28 31 24.320	140 23 48.170	No Permian									
Limestone Creek 9	28 31 12.860	140 22 44.960	No Permian									
Lowanna 1	28 14 07.700	140 22 54.510	Toolachee Fm	2297.0	2391.5	1	0	0	1	0	0	0
Lowanna 1	28 14 07.700	140 22 54.510	Epsilon Fm	2391.5	2522.2		0	0	0	0	0	0
Lowanna 1	28 14 07.700	140 22 54.510	Roseneath Sh	2407.9	2446.0		0	0	0	0	0	0
Lowanna 1	28 14 07.700	140 22 54.510	Murteree Sh	2522.2	2582.9		0	0	0	0	0	0
Lowanna 1	28 14 07.700	140 22 54.510	Patchawarra Fm	2582.9	2950.5		0	0	0	0	0	0
Lowanna 1	28 14 07.700	140 22 54.510	Daralingie Fm	2950.5	2407.9	1.0	0	0	0	0	0	0
Lujoel 1	27 15 02.888	140 13 50.245	No Permian									
Lycium 1	28 01 51.220	139 31 02.110	Patchawarra Fm	1994.0	2181.1	0.73	0	0	0	0	0	0
Lycosa 1	28 24 11.318	140 03 00.943	Toolachee Fm	2069.9	2141.2							
Lycosa 1	28 24 11.318	140 03 00.943	Daralingie Fm	2141.2	2178.1							
Lycosa 1	28 24 11.318	140 03 00.943	Roseneath Sh	2178.1	2256.1							
Lycosa 1	28 24 11.318	140 03 00.943	Epsilon Fm	2256.1	2329.0							
Lycosa 1	28 24 11.318	140 03 00.943	Murteree Sh	2329.0	2383.5							
Lycosa 1	28 24 11.318	140 03 00.943	Patchawarra Fm	2383.5	2530.7544							
Malgoona 1	28 08 04.830	139 37 10.608	No Permian									
Malgoona 1 DW1	28 08 04.830	139 37 10.608	Patchawarra Fm	1955.6	2128.7	0.75	1	0	0	0	0	0
Malgoona 2	28 07 52.694	139 37 32.942	Epsilon Fm	1982.4	1991.6		0	0	0	0	0	0
Malgoona 2	28 07 52.694	139 37 32.942	Patchawarra Fm	1991.6	2209.2	0.8	0	0	0	1	0	0
Malgoona 2	28 07 52.694	139 37 32.942	Murteree Sh	2209.2	2008.0		1	1	0	0	0	0
Malgoona 3	28 07 50.086	139 37 03.860	Epsilon Fm	1971.1	1980.0		0	0	0	0	0	0
Malgoona 3	28 07 50.086	139 37 03.860	Murteree Sh	1980.0	1994.0	0.75	0	0	0	0	0	0
Malgoona 3	28 07 50.086	139 37 03.860	Patchawarra Fm	1994.0	2165.9	0.8	0	0	0	0	0	1
Malgoona 4	28 07 34.609	139 36 18.291	Patchawarra Fm	1961.4	2133.0	0.8	1	0	0	1	0	0

Table 2 Alginite Database

Species	Abundance	Algal	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			0	0				Wood	
			0.5	3	37.2			Wood	
			0	2	5.6			Wood	
			0	2	15.6				
			1	2	5.6				
			0	0					
			1	3	37.2				
			0	2	15.6			Williams	
			0	1	12.4			Williams	
			0	0				Williams	
0				2	15.6			Wood, Benson	
0				1	12.4			Wood, Benson	
1			0	3	23.4			Williams	
0			0	1	2.8			Williams	
0			0	1				Williams	
0			0	0				Williams	
0			0	2	24.8			Williams	
0			0	0	0			Williams	
0			1	5	62	5	5	Wood, Marshall	
			0						
			0						
			0						
			0						
1			0	5	62			Wood, Marshall	
0			0	0	0			Wood, Marshall	
1			0	5	62			Wood, Marshall	
2			0	0				Wood, Marshall	
0			0	0.1	0.28			Wood	
0			0	0				Wood	
1			0	5	62			Wood	
2			0	4	49.6			Wood	

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Manooka 1	28 27 28.200	139 53 59.570	Daralingie Fm	1783.4	1799.5	0.83	0	0	0	0	0	0
Manooka 1	28 27 28.200	139 53 59.570	Roseneath Sh	1799.5	1851.7	0.84	0	1	1	0	0	0
Manooka 1	28 27 28.200	139 53 59.570	Patchawarra Fm	1889.8	1920.2	0.92	0	1	0	0	1	0
Manooka 1	28 27 28.200	139 53 59.570	Toolachee Fm	1920.1	1783.4	0.74	0	0	0	0	0	0
Manooka 1	28 27 28.200	139 53 59.570	Murteree Sh	1920.2	1910.5	0.91	0	0	0	0	1	0
Manooka 1	28 27 28.200	139 53 59.570	Epsilon Fm	2133.0	1889.8	0.9	0	0	0	0	1	0
Marabooka 1	28 10 38.890	140 36 32.300	Toolachee Fm	1927.9	1989.1	0.95	0	1	0	0	0	0
Marabooka 1	28 10 38.890	140 36 32.300	Murteree Sh	1989.1	1992.5	1.2	0	0	0	0	0	0
Marabooka 1	28 10 38.890	140 36 32.300	Patchawarra Fm	1992.5	2152.2	0.95	0	0	1	0	0	0
Marabooka 2	28 11 37.870	140 36 12.220	Toolachee Fm	1935.5	1997.0							
Marabooka 2	28 11 37.870	140 36 12.220	Murteree Sh	1997.0	2008.9							
Marabooka 2	28 11 37.870	140 36 12.220	Patchawarra Fm	2008.9	2189.4							
Marabooka 3	28 11 08.050	140 36 43.050	Toolachee Fm	1926.0	1989.1							
Marabooka 3	28 11 08.050	140 36 43.050	Patchawarra Fm	1989.1	1925.1							
Marabooka 4	28 12 03.910	140 36 36.940	Toolachee Fm	1925.1	2005.6							
Marabooka 4	28 12 03.910	140 36 36.940	Murteree Sh	2005.6	2024.2							
Marabooka 4	28 12 03.910	140 36 36.940	Patchawarra Fm	2024.2	2198.2							
Marabooka 5	28 11 05.995	140 35 45.211	Toolachee Fm	1951.9	2009.9							
Marabooka 5	28 11 05.995	140 35 45.211	Patchawarra Fm	2009.9	2232.4							
Maraku 1	28 30 19.410	140 55 38.560	Toolachee Fm	1748.0	1896.5	0.89	0	0	1	0	0	0
Maraku 1	28 30 19.410	140 55 38.560	Epsilon Fm	1896.5	2078.7	1.1	0	0	1	0	0	1
Maraku 1	28 30 19.410	140 55 38.560	Patchawarra Fm	2015.3	2239.7	1.2	0	0	1	0	0	1
Maraku 1	28 30 19.410	140 55 38.560	Murteree Sh	2078.7	2142.1		0	0	1	0	0	0
Maraku 1	28 30 19.410	140 55 38.560	Daralingie Fm	2239.7	1930.9	0.9	1	0	1	0	0	0
Marana 1	28 14 46.770	140 40 49.410	Toolachee Fm	1880.6	1955.0	0.95	0	0	0	0	0	0
Marana 1	28 14 46.770	140 40 49.410	Murteree Sh	1955.0	1978.8	0.95	0	0	1	0	0	0
Marana 1	28 14 46.770	140 40 49.410	Patchawarra Fm	1978.8	2046.4	1.05	0	1	0	0	0	0
Marpoo 1	27 46 04.712	140 07 37.563	Patchawarra Fm	2046.4	2467.7		0	0	0	0	0	0
Marpoo 1	27 46 04.712	140 07 37.563	Toolachee Fm	2345.1	2385.4		0	0	0	0	0	0
Marsilea 1	28 21 20.420	140 56 10.850	Toolachee Fm	1935.5	2099.5		0	0	0	0	0	0
Marsilea 1	28 21 20.420	140 56 10.850	Epsilon Fm	2099.5	2254.0		0	0	0	0	0	0
Marsilea 1	28 21 20.420	140 56 10.850	Murteree Sh	2117.4	2313.4		0	0	0	0	0	0
Marsilea 1	28 21 20.420	140 56 10.850	Daralingie Fm	2254.0	2117.4		0	1	0	0	0	0
Marsilea 1	28 21 20.420	140 56 10.850	Patchawarra Fm	2313.4	2457.6	2.68	0	0	0	0	0	0
Marsilea 1	28 21 20.420	140 56 10.850	Roseneath Sh	2457.6	2202.5		0	0	0	0	0	0
Massy 1	27 47 41.250	140 06 26.520	Patchawarra Fm	2202.5	2581.7	1.2	0	0	0	0	0	0
Massy 1	27 47 41.250	140 06 26.520	Toolachee Fm	2351.2	2394.2	0.9	0	1	0	0	0	0
Mataranka 1	28 28 32.207	140 45 06.531	Toolachee Fm	1819.7	1941.6	0.85	0	0	0	0	0	0
Mataranka 1	28 28 32.207	140 45 06.531	Murteree Sh	1941.6	2139.1	1	0	0	0	0	0	0
Mataranka 1	28 28 32.207	140 45 06.531	Epsilon Fm	2008.6	2077.8	0.9	0	0	0	0	0	0
Mataranka 1	28 28 32.207	140 45 06.531	Patchawarra Fm	2139.1	2275.0	1.1	0	0	0	0	0	0
Mataranka 1	28 28 32.207	140 45 06.531	Roseneath Sh	2275.0	2008.6		0	0	0	0	0	0
Mataro 1	28 16 30.837	140 00 02.898	Toolachee Fm	2070.8	2105.3							
Mataro 1	28 16 30.837	140 00 02.898	Daralingie Fm	2105.3	2135.7							
Mataro 1	28 16 30.837	140 00 02.898	Roseneath Sh	2135.7	2184.8							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			0	0	0			Wood	
2			0	2		5	5	Wood	
2			1	0	0	4	4	Wood	
0			0	1	7.8		1	Wood	
1			0	0		4	4	Wood	
1			1	0	0	4	4	Wood	
1			0	1	7.8			Dettmann, Price	
0			0	0				Dettmann, Price	
1			0	1	12.4			Dettmann, Price	
			0	2	15.6				
			0	0					
			0	2	24.8				
			0	2	15.6				
			3	1	12.4				
			0	2	15.6				
			0	0					
			0	2	24.8				
			2	1	7.8				
			0	2	24.8				
1			0	3	23.4	2	2	Jones, Wood	
2	1		0	0.1	0.28	3	4	Jones, Wood	
2	1		1	1	12.4	4	4	Jones, Wood	
1			0	0				Jones, Wood	
2			0	1	1.8	4	4	Jones, Wood	
0			0	2	15.6			Jones	
1			0	0				Jones	
1			1	0	0			Jones	
0			1	2	24.8			Wood	
0			1	2	15.6			Wood	
0			0	3	23.4			Wood, Marshall	
0			0	2	5.6			Wood, Marshall	
0			0	0				Wood, Marshall	
1			0	2	3.6			Wood, Marshall	
0			0	2	24.8	5	5	Wood, Marshall	
0			0	0				Wood, Marshall	
0			1	4	49.6			Marshall, Wood	
1			2	1	7.8			Marshall, Wood	
0			0	4	31.2			Wood	
0			0	0				Wood	
0			0	0.1	0.28			Wood	
0			1	1	12.4			Wood	
0			0	0				Wood	
			0	2	15.6				
			0	1	1.8				
			0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Mataro 1	28 16 30.837	140 00 02.898	Epsilon Fm	2184.8	2237.5							
Mataro 1	28 16 30.837	140 00 02.898	Murteree Sh	2237.5	2282.0							
Mataro 1	28 16 30.837	140 00 02.898	Patchawarra Fm	2282.0	2335.4							
Mawson 1	28 03 03.770	139 56 11.100	Epsilon Fm	2077.8	2265.9		0	0	0	0	0	0
Mawson 1	28 03 03.770	139 56 11.100	Toolachee Fm	2215.3	2254.6	0.85	0	0	0	0	0	0
Mawson 1	28 03 03.770	139 56 11.100	Murteree Sh	2254.6	2288.7	0.85	0	0	0	0	0	0
Mawson 1	28 03 03.770	139 56 11.100	Patchawarra Fm	2288.7	2509.7	1.05	0	0	0	0	0	0
Mawson 2	28 03 14.260	139 56 03.940	Toolachee Fm	2218.9	2254.3	0.7	0	0	0	0	0	0
Mawson 2	28 03 14.260	139 56 03.940	Murteree Sh	2254.3	2291.5		0	0	0	0	0	0
Mawson 2	28 03 14.260	139 56 03.940	Patchawarra Fm	2291.5	2529.2	0.8	0	0	0	0	0	0
Mawson 2	28 03 14.260	139 56 03.940	Epsilon Fm	2529.2	2265.9	0.75	0	0	0	0	0	0
McKinlay 1	28 28 20.200	140 28 38.760	No Permian									
McKinlay 2	28 26 57.280	140 28 42.320	No Permian									
McKinlay 3	28 27 55.950	140 29 05.770	No Permian									
McKinlay 4	28 27 35.940	140 29 33.790	No Permian									
McLeod 1	27 48 58.640	140 45 26.890	Toolachee Fm	2549.7	2806.3	2.7	0	0	0	0	0	0
McLeod 1	27 48 58.640	140 45 26.890	Daralingie Fm	2806.3	2901.7	3.2	0	0	0	0	0	0
McLeod 1	27 48 58.640	140 45 26.890	Roseneath Sh	3566.2	2981.9		0	0	0	0	0	0
McLeod 1	27 48 58.640	140 45 26.890	Epsilon Fm	2806.3	3122.1	3.5	0	0	0	0	0	0
McLeod 1	27 48 58.640	140 45 26.890	Murteree Sh	3122.1	3204.7	3.9	0	0	0	0	0	0
McLeod 1	27 48 58.640	140 45 26.890	Patchawarra Fm	3204.7	3566.2	6.1	0	0	0	0	0	0
Meranji 1	27 51 0.01	140 04 22.40	Toolachee Fm	2435.4	2482.9		0	1	0	0	0	0
Meranji 1	27 51 0.01	140 04 22.40	Daralingie Fm	2482.9	2484.1							
Meranji 1	27 51 0.01	140 04 22.40	Roseneath Sh	2484.1	2486.3							
Meranji 1	27 51 0.01	140 04 22.40	Epsilon Fm	2486.3	2518.6		0	0	0	0	0	0
Meranji 1	27 51 0.01	140 04 22.40	Murteree Sh	2518.6	2545.1		0	0	0	0	0	0
Meranji 1	27 51 0.01	140 04 22.40	Patchawarra Fm	2545.1	2936.4		0	0	0	0	0	0
Meranji 2	27 51 11.030	140 05 03.720	Toolachee Fm	2464.0	2515.2		0	0	0	0	0	0
Meranji 2	27 51 11.030	140 05 03.720	Daralingie Fm	2515.2	2519.5		0	0	0	0	0	0
Meranji 2	27 51 11.030	140 05 03.720	Roseneath Sh	2519.5	2528.9		0	0	0	0	0	0
Meranji 2	27 51 11.030	140 05 03.720	Epsilon Fm	2528.9	2567.6		0	0	0	0	0	0
Meranji 2	27 51 11.030	140 05 03.720	Patchawarra Fm	2542.6	2936.4		0	0	0	0	0	0
Meranji 2	27 51 11.030	140 05 03.720	Murteree Sh	2567.6	2586.5		0	1	0	0	0	0
Meranji 3	27 51 14.270	140 04 32.820	No Permian									
Meranji 4	27 50 32.420	140 04 46.910	Toolachee Fm	2465.8	2512.2							
Meranji 4	27 50 32.420	140 04 46.910	Roseneath Sh	2512.2	2517.3							
Meranji 4	27 50 32.420	140 04 46.910	Epsilon Fm	2517.3	2547.5							
Meranji 4	27 50 32.420	140 04 46.910	Murteree Sh	2547.5	2564.9							
Meranji 4	27 50 32.420	140 04 46.910	Patchawarra Fm	2564.9	2973.6							
Meranji 5	27 50 51.850	140 04 11.560	No Permian									
Meranji 6	27 51 08.240	140 04 16.477	No Permian									
Meranji 7	27 51 16.295	140 04 12.998	Toolachee Fm	2451.8	2503.9							
Meranji 7	27 51 16.295	140 04 12.998	Roseneath Sh	2503.9	2518.9							
Meranji 7	27 51 16.295	140 04 12.998	Epsilon Fm	2518.9	2551.5							
Meranji 7	27 51 16.295	140 04 12.998	Murteree Sh	2551.5	2567.0							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0	2	5.6				
			0	0					
			0	3	37.2				
0			0	2	5.6			Jones, Wood	
0			0	3	23.4			Jones, Wood	
0			0	0				Jones, Wood	
0			1	1	12.4			Jones, Wood	
0			0	3	23.4			Wood, Marshall	
0			0	0				Wood, Marshall	
0			1	2	24.8			Wood, Marshall	
0			0	3	8.4			Wood, Marshall	
0			0	4	31.2			Williams	
0			0	1	1.8			Williams	
0			0	0				Williams	
0			0	1	2.8			Williams	
0			0	0				Williams	
0			0	2	24.8			Williams	
1			0	3	23.4			Wood	
0			0	2	5.6			Wood	
0			0	0				Wood	
0			0	2	24.8			Wood	
0			0	2	15.6			Wood	
0								Wood	
0								Wood	
0			0	3	8.4			Wood	
0			1	4	49.6			Wood	
1			0	0				Wood	
			0	2	15.6				
			0	0					
			0	4	11.2				
			0	0					
			3	3	37.2				
			0	2	15.6				
			0	3	8.4				
			0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Meranji 7	27 51 16.295	140 04 12.998	Patchawarra Fm	2567.0	2966.6							
Meranji 8	27 51 07.593	140 04 07.763	No Permian									
Meranji 9	27 50 47.169	140 04 23.390	No Permian									
Meranji 10	27 50 59.799	140 04 11.371	No Permian									
Meranji 11	27 51 05.483	140 04 29.074	No Permian									
Meranji 12	27 51 15.991	140 04 23.106	No Permian									
Meranji 13	27 50 47.584	140 05 33.420	Toolachee Fm	2468.0	2522.8		0	0	0	0	0	0
Meranji 13	27 50 47.584	140 05 33.420	Daralingie Fm	2522.8	2525.0							
Meranji 13	27 50 47.584	140 05 33.420	Roseneath Sh	2525.0	2529.8							
Meranji 13	27 50 47.584	140 05 33.420	Epsilon Fm	2529.8	2567.0		0	0	0	0	0	0
Meranji 13	27 50 47.584	140 05 33.420	Murteree Sh	2567.0	2584.7		0	0	0	0	0	0
Meranji 13	27 50 47.584	140 05 33.420	Patchawarra Fm	2584.7	2952.0	1.2	0	0	0	0	0	0
Meranji 14	27 50 57.931	140 04 06.475	No Permian									
Meranji 14 DW1	27 50 57.931	140 04 06.475	No Permian									
Meranji 15	27 50 52.350	140 04 00.594	Toolachee Fm	2427.4	2483.8		0	0	0	0	0	0
Meranji 15	27 50 52.350	140 04 00.594	Epsilon Fm	2483.8	2521.3	0.75	1	0	1	0	0	0
Meranji 15	27 50 52.350	140 04 00.594	Murteree Sh	2521.3	2549.3		0	0	0	0	0	0
Meranji 15	27 50 52.350	140 04 00.594	Patchawarra Fm	2549.3	2906.0	1.3	0	0	1	0	0	0
Meranji 16	27 51 21.953	140 04 30.610	No Permian									
Meranji South 1	27 51 44.511	140 04 52.867	Toolachee Fm	2462.8	2519.5							
Meranji South 1	27 51 44.511	140 04 52.867	Epsilon Fm	2519.5	2574.3							
Meranji South 1	27 51 44.511	140 04 52.867	Murteree Sh	2574.3	2605.4							
Meranji South 1	27 51 44.511	140 04 52.867	Patchawarra Fm	2605.4	2965.1							
Merinda 1	28 26 51.860	140 10 52.010	Toolachee Fm	1981.5	2030.3	0.94	1	1	1	0	0	0
Merinda 1	28 26 51.860	140 10 52.010	Daralingie Fm	2030.3	2086.1	0.9	0	1	0	0	0	0
Merinda 1	28 26 51.860	140 10 52.010	Roseneath Sh	2086.1	2144.0	0.94	0	0	0	0	1	0
Merinda 1	28 26 51.860	140 10 52.010	Epsilon Fm	2144.0	2215.3	1.08	0	0	0	0	0	0
Merinda 1	28 26 51.860	140 10 52.010	Murteree Sh	2215.3	2280.2	1	0	0	0	0	0	0
Merinda 1	28 26 51.860	140 10 52.010	Patchawarra Fm	2280.2	2331.1	1.46	0	0	0	0	0	0
Merindal 1	27 33 58.078	140 31 49.837	No Permian									
Merindal 2	27 34 52.807	140 31 22.565	Toolachee Fm	2331.1	2360.7							
Merindal 2	27 34 52.807	140 31 22.565	Patchawarra Fm	2360.7	2376.8							
Merlot 1	28 12 16.260	140 03 52.750	Toolachee Fm	2351.8	2411.6							
Merlot 1	28 12 16.260	140 03 52.750	Daralingie Fm	2411.6	2470.1							
Merlot 1	28 12 16.260	140 03 52.750	Roseneath Sh	2470.1	2534.7							
Merlot 1	28 12 16.260	140 03 52.750	Epsilon Fm	2534.7	2607.9							
Merlot 1	28 12 16.260	140 03 52.750	Murteree Sh	2607.9	2671.9							
Merlot 1	28 12 16.260	140 03 52.750	Patchawarra Fm	2671.9	2996.2							
Merrimelia 6	27 44 25.340	140 10 35.170	No Permian									
Merrimelia 7	27 44 47.940	140 10 04.000	No Permian									
Merrimelia 8	27 43 41.420	140 11 07.740	No Permian									
Merrimelia 9	27 44 47.710	140 10 41.380	No Permian									
Merrimelia 10	27 44 30.650	140 10 56.770	No Permian									
Merrimelia 11	27 44 16.830	140 11 06.300	No Permian									
Merrimelia 12	27 45 54.690	140 08 29.770	No Permian									

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0	4	49.6				
0		0	3	23.4			Wood, Benson	
0		0	2	5.6			Wood, Benson	
0		0	0				Wood, Benson	
0		1	3	37.2			Wood, Benson	
0		0	3	23.4			Benson	
2		0	3	8.4			Benson	
0		0	0				Benson	
1		1	3	37.2			Benson	
		0	2	15.6				
		0	2	5.6				
		0	0					
		1	4	49.6				
3		0	4	31.2		4		
1		0	1	1.8				
1		0	0			5		
0		1	4	11.2		5		
0		0	0			5		
0		1	5	62		5		
		0	1	7.8				
		0	1	12.4				
		0	2	15.6				
		0	0					
		0	2	5.6				
		0	0					
		0.5	4	49.6				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Merrimelia 13	27 45 39.360	140 09 13.510	Toolachee Fm	2254.9	2276.9							
Merrimelia 14	27 45 49.150	140 08 46.680	Toolachee Fm	2233.0	2272.9							
Merrimelia 15	27 44 03.420	140 11 35.210	No Permian									
Merrimelia 16	27 44 33.860	140 10 43.890	No Permian									
Merrimelia 17	27 44 58.720	140 09 35.770	Toolachee Fm	2223.2	2253.4							
Merrimelia 18	27 45 53.300	140 10 21.210	Toolachee Fm	2342.1	2386.6							
Merrimelia 19	27 43 53.590	140 11 08.090	No Permian									
Merrimelia 20	27 46 24.460	140 08 05.210	Toolachee Fm	2254.9	2300.6							
Merrimelia 20	27 46 24.460	140 08 05.210	Patchawarra Fm	2300.3	2335.4							
Merrimelia 21	27 44 04.620	140 11 04.130	No Permian									
Merrimelia 22	27 45 54.300	140 09 51.330	Toolachee Fm	2303.7	2340.9							
Merrimelia 23	27 42 52.080	140 12 32.730	No Permian									
Merrimelia 24	27 44 20.710	140 10 52.260	No Permian									
Merrimelia 25	27 45 25.550	140 08 32.340	Toolachee Fm	2263.4	2295.8							
Merrimelia 26	27 43 45.930	140 11 20.280	No Permian									
Merrimelia 27	27 44 35.829	140 10 30.337	No Permian									
Merrimelia 28	27 45 51.961	140 09 01.443	No Permian									
Merrimelia 29	27 44 21.545	140 11 20.461	No Permian									
Merrimelia 29 DW1	27 44 21.545	140 11 20.461	No Permian									
Merrimelia 30	27 43 45.048	140 11 01.433	No Permian									
Merrimelia 31	27 44 05.337	140 10 47.392	No Permian									
Merrimelia 32	27 44 15.036	140 10 35.122	No Permian									
Merrimelia 33	27 43 59.154	140 10 56.146	No Permian									
Merrimelia 34	27 43 35.969	140 11 19.217	No Permian									
Merrimelia 35	27 44 20.090	140 10 26.394	No Permian									
Merrimelia 36	27 45 11.608	140 10 36.522	Toolachee Fm	2237.5	2286.6		0	0	0	0	0	0
Merrimelia 37	27 44 18.150	140 11 51.916	Toolachee Fm	2254.0	2271.7		0	0	0	0	0	0
Merrimelia 38	27 44 12.100	140 10 48.247	No Permian									
Merupa 1	27 34 30.010	140 27 15.890	Toolachee Fm	2587.8	2627.4							
Merupa 1	27 34 30.010	140 27 15.890	Patchawarra Fm	2627.4	2798.1	1.3	0	0	1	0	0	0
Merupa 2	27 34 58.990	140 26 32.080	Toolachee Fm	2605.7	2642.3							
Merupa 2	27 34 58.990	140 26 32.080	Patchawarra Fm	2642.3	2810.9							
Mettika 1	28 19 57.440	140 57 28.300	Toolachee Fm	1973.9	2132.4	0.94	0	0	1	0	0	0
Mettika 1	28 19 57.440	140 57 28.300	Daralingie Fm	2132.4	2151.6	1.02	0	0	0	0	0	0
Mettika 1	28 19 57.440	140 57 28.300	Roseneath Sh	2151.6	2233.6	1	0	0	0	0	0	0
Mettika 1	28 19 57.440	140 57 28.300	Epsilon Fm	2233.6	2280.5		0	0	0	0	0	0
Mettika 1	28 19 57.440	140 57 28.300	Murteree Sh	2280.5	2332.9		0	0	0	0	0	0
Mettika 1	28 19 57.440	140 57 28.300	Patchawarra Fm	2332.9	2467.7	1.46	0	0	0	0	0	0
Mettika 2	28 20 40.290	140 57 43.190	Toolachee Fm	1969.6	2131.8							
Mettika 2	28 20 40.290	140 57 43.190	Daralingie Fm	2131.8	2159.2							
Mettika 2	28 20 40.290	140 57 43.190	Roseneath Sh	2159.2	2240.3							
Mettika 2	28 20 40.290	140 57 43.190	Epsilon Fm	2240.3	2296.4							
Mettika 2	28 20 40.290	140 57 43.190	Murteree Sh	2296.4	2352.4							
Mettika 2	28 20 40.290	140 57 43.190	Patchawarra Fm	2352.4	2396.3							
Mettika 3	28 19 00.240	140 57 36.870	Toolachee Fm	2006.5	2163.2							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		1.5	1	7.8				
		3.5	0	0				
		3	0	0			Williams	
		0	1	7.8			Wood	
		3	2	15.6				
		3	3	37.2				
		4	0	0				
		3	2	15.6				
0		0	1	7.8			Wood	
0		1	0	0			Wood	
		0	3	23.4			Wood, Jones	
1		0	1	12.4			Wood, Jones	
		0	2	15.6				
		1	2	24.8				
1		2	3	23.4	4	5	Wood, Marshall	
0		1	1	1.8	4	5	Wood, Marshall	
0		0	0				Wood, Marshall	
0		0	1	2.8			Wood, Marshall	
0		0	0				Wood, Marshall	
0		0	3	37.2	4	4	Wood, Marshall	
		0	1	7.8				
		0	1	1.8				
		0	0					
		0	1	2.8				
		0	0					
		0	3	37.2				
		0	4	31.2				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Mettika 3	28 19 00.240	140 57 36.870	Daralingie Fm	2163.2	2181.5							
Mettika 3	28 19 00.240	140 57 36.870	Roseneath Sh	2181.5	2265.3							
Mettika 3	28 19 00.240	140 57 36.870	Epsilon Fm	2265.3	2328.4							
Mettika 3	28 19 00.240	140 57 36.870	Murteree Sh	2328.4	2363.1							
Mettika 3	28 19 00.240	140 57 36.870	Patchawarra Fm	2363.1	2495.1							
Mettika 4	28 19 09.013	140 57 19.629	Toolachee Fm	1998.0	2148.2							
Mettika 4	28 19 09.013	140 57 19.629	Daralingie Fm	2148.2	2172.3							
Mettika 4	28 19 09.013	140 57 19.629	Daralingie Fm	2148.2	2172.3							
Mettika 4	28 19 09.013	140 57 19.629	Roseneath Sh	2172.3	2255.5							
Mettika 4	28 19 09.013	140 57 19.629	Epsilon Fm	2255.5	2307.3							
Mettika 4	28 19 09.013	140 57 19.629	Murteree Sh	2307.3	2360.4							
Mettika 4	28 19 09.013	140 57 19.629	Patchawarra Fm	2360.4	2492.7							
Mettika 5	28 20 23.889	140 57 50.673	Toolachee Fm	1970.2	2126.3							
Mettika 5	28 20 23.889	140 57 50.673	Daralingie Fm	2126.3	2151.0							
Mettika 5	28 20 23.889	140 57 50.673	Roseneath Sh	2151.0	2234.2							
Mettika 5	28 20 23.889	140 57 50.673	Epsilon Fm	2234.2	2284.5							
Mettika 5	28 20 23.889	140 57 50.673	Murteree Sh	2284.5	2336.9							
Mettika 5	28 20 23.889	140 57 50.673	Patchawarra Fm	2336.9	2467.7							
Mica 1	27 48 13.000	139 53 42.000	Toolachee Fm	2516.4	2564.6							
Mica 1	27 48 13.000	139 53 42.000	Epsilon Fm	2564.6	2617.0							
Mica 1	27 48 13.000	139 53 42.000	Murteree Sh	2617.0	2634.7							
Mica 1	27 48 13.000	139 53 42.000	Patchawarra Fm	2634.7	3011.7							
Milluna 1	28 21 01.875	140 27 38.309	Toolachee Fm	1915.7	1990.6							
Milluna 1	28 21 01.875	140 27 38.309	Roseneath Sh	1990.6	2010.2							
Milluna 1	28 21 01.875	140 27 38.309	Epsilon Fm	2010.2	2054.0							
Milluna 1	28 21 01.875	140 27 38.309	Murteree Sh	2054.0	2106.8							
Milluna 1	28 21 01.875	140 27 38.309	Patchawarra Fm	2106.8	2323.5							
Mina 1	28 11 30.570	140 30 52.400	Toolachee Fm	2046.4	2106.5	1.33						
Mina 1	28 11 30.570	140 30 52.400	Murteree Sh	2106.5	2149.4	1.31						
Mina 1	28 11 30.570	140 30 52.400	Patchawarra Fm	2149.4	2332.0	1.62						
Mingana 1	27 35 57.750	139 58 23.550	Toolachee Fm	2631.0	2663.3	1.01						
Mingana 1	27 35 57.750	139 58 23.550	Epsilon Fm	2663.3	2682.5							
Mingana 1	27 35 57.750	139 58 23.550	Murteree Sh	2682.5	2688.6							
Mingana 1	27 35 57.750	139 58 23.550	Patchawarra Fm	2688.6	2913.6	1.19						
Minkie 1	27 38 41.550	140 18 57.640	No Permian									
Mitchie 1	27 27 12.640	140 10 58.690	Toolachee Fm	2809.0	2839.5							
Mitchie 1	27 27 12.640	140 10 58.690	Epsilon Fm	2839.5	2872.4							
Mitchie 1	27 27 12.640	140 10 58.690	Murteree Sh	2872.4	2883.7							
Mitchie 1	27 27 12.640	140 10 58.690	Patchawarra Fm	2883.7	2991.0							
Moolalla 1	28 21 05.452	140 03 28.952	Toolachee Fm	2085.4	2138.5							
Moolalla 1	28 21 05.452	140 03 28.952	Daralingie Fm	2138.5	2198.8							
Moolalla 1	28 21 05.452	140 03 28.952	Roseneath Sh	2198.8	2259.2							
Moolalla 1	28 21 05.452	140 03 28.952	Epsilon Fm	2259.2	2322.6							
Moolalla 1	28 21 05.452	140 03 28.952	Murteree Sh	2322.6	2377.1							
Moolalla 1	28 21 05.452	140 03 28.952	Patchawarra Fm	2377.1	2464.9							

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0		1	1.8					
0.5		0						
0		1	2.8					
0		0						
0		2	24.8					
		0	0	2				
0.5		0	0	1				
		0	0	1				
		0		0				
		0	0	2				
		0		0				
		0	0	2				
0		3	23.4					
0		1	1.8					
0		0						
0		1	2.8					
0		0						
0		4	49.6					
0		1	7.8					
0		1	2.8					
0		0						
0		3	37.2					
0		1	7.8					
0		0						
0		1	2.8					
0		0						
2		1	12.4					gas show
2		3	23.4	4	2	Wood		
1		0		4	4	Wood		
3		3	37.2	5	5	Wood		
1		2	15.6		1			
0		0	0					
0		0						
1		3	37.2		4			
0		2	15.6					gas show
0		2	5.6					gas show
0		0						
0		1	12.4					gas show
0.5		2	15.6					
0		2	3.6					
0		0						
0		3	8.4					
0		0						
0		2	24.8					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Moolion 1	27 24 38.000	140 12 31.180	Toolachee Fm	2783.7	2830.7		0	0	0	0	0	0
Moolion 1	27 24 38.000	140 12 31.180	Epsilon Fm	2830.7	2843.8		0	0	0	0	0	0
Moolion 1	27 24 38.000	140 12 31.180	Murteree Sh	2843.8	2854.1		0	0	0	0	0	0
Moolion 1	27 24 38.000	140 12 31.180	Patchawarra Fm	2854.1	2865.4		0	0	1	0	0	0
Moolion 2	27 24 47.236	140 13 03.023	Toolachee Fm	2821.8	2870.0		0	0	1	0	0	0
Moolion 2	27 24 47.236	140 13 03.023	Epsilon Fm	2870.0	2898.6		0	0	0	0	0	0
Moolion 2	27 24 47.236	140 13 03.023	Murteree Sh	2898.6	2911.4		0	0	0	0	0	0
Moolion 2	27 24 47.236	140 13 03.023	Patchawarra Fm	2911.4	311.5		0	0	0	0	0	0
Moolion North 1	27 21 51.110	140 13 56.960	Toolachee Fm	2801.7	2870.3	0.9	0	0	0	0	0	0
Moolion North 1	27 21 51.110	140 13 56.960	Epsilon Fm	2870.3	2895.0	0.9	0	0	0	0	0	0
Moolion North 1	27 21 51.110	140 13 56.960	Murteree Sh	2895.0	2910.2	0.9	0	0	0	0	0	0
Moolion North 1	27 21 51.110	140 13 56.960	Patchawarra Fm	2910.2	3049.5	1	0	0	0	0	0	0
Moolion North 2	27 22 42.230	140 13 30.190	No Permian									
Moomba 100	28 08 23.360	140 09 15.130	No Permian									
Moomba 101	28 07 51.210	140 10 04.740	No Permian									
Moomba 102	28 08 46.060	140 09 43.350	No Permian									
Moomba 103	28 03 03.930	140 13 17.920	No Permian									
Moomba 18 DW1	28 12 32.900	140 10 46.560	Toolachee Fm	2349.4	2459.1							
Moomba 18 DW1	28 12 32.900	140 10 46.560	Daralingie Fm	2459.1	2764.5							
Moomba 27	28 02 02.950	140 08 16.470	Toolachee Fm	2465.2	2534.1	1.5						
Moomba 27	28 02 02.950	140 08 16.470	Daralingie Fm	2534.1	2587.8	1.6						
Moomba 27	28 02 02.950	140 08 16.470	Roseneath Sh	2587.8	2643.2							
Moomba 27	28 02 02.950	140 08 16.470	Epsilon Fm	2643.2	2706.0	1.9						
Moomba 27	28 02 02.950	140 08 16.470	Murteree Sh	2706.0	2752.3							
Moomba 27	28 02 02.950	140 08 16.470	Patchawarra Fm	2752.3		2.8						
Moomba 45	28 11 57.570	140 10 21.650	Toolachee Fm	2339.6	2350.0							
Moomba 45	28 11 57.570	140 10 21.650	Daralingie Fm	2350.0	2495.1							
Moomba 45	28 11 57.570	140 10 21.650	Roseneath Sh	2495.1	2508.5							
Moomba 46	28 11 11.400	140 10 12.460	Toolachee Fm	2316.5	2399.4							
Moomba 46	28 11 11.400	140 10 12.460	Daralingie Fm	2399.4	2465.2							
Moomba 46	28 11 11.400	140 10 12.460	Roseneath Sh	2465.2	2482.9							
Moomba 47	28 09 52.760	140 09 45.790	Toolachee Fm	2364.6	2446.3							
Moomba 47	28 09 52.760	140 09 45.790	Daralingie Fm	2446.3	2517.6							
Moomba 47	28 09 52.760	140 09 45.790	Roseneath Sh	2517.6	2548.1							
Moomba 48	28 13 26.680	140 10 29.450	Toolachee Fm	2371.3	2461.0							
Moomba 48	28 13 26.680	140 10 29.450	Daralingie Fm	2461.0	2536.9							
Moomba 48	28 13 26.680	140 10 29.450	Roseneath Sh	2536.9	2569.5							
Moomba 49	28 08 40.440	140 14 45.600	Toolachee Fm	2319.5	2405.2							
Moomba 49	28 08 40.440	140 14 45.600	Daralingie Fm	2405.2	2468.3							
Moomba 49	28 08 40.440	140 14 45.600	Roseneath Sh	2468.3	2498.8							
Moomba 50	28 04 11.590	140 11 17.810	Toolachee Fm	2442.7	2527.4							
Moomba 50	28 04 11.590	140 11 17.810	Daralingie Fm	2527.4	2592.3							
Moomba 50	28 04 11.590	140 11 17.810	Roseneath Sh	2592.3	2646.3							
Moomba 50	28 04 11.590	140 11 17.810	Epsilon Fm	2646.3	2712.1							
Moomba 50	28 04 11.590	140 11 17.810	Patchawarra Fm	2712.1	2995.6							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0		1	5	39			Wood	
0		0	2	5.6			Wood	
0		0	0				Wood	
1		0	5	62			Wood	
1		0	5	39			Wood	
0		0	2	5.6			Wood	
0		0	0				Wood	
0		0.5	2	24.8			Wood	
0		0	3	23.4			Wood	
0		0	1	2.8			Wood	
0		0	0				Wood	
0		0.5	3	37.2			Wood	
		0	2	15.6				
		0	1	1.8				
		0	5	39				
		0	3	5.4				
		0	0					
		0	2	15.6				
		0	2	3.6				
		0	0					
		0	3	23.4				
		0	2	3.6				
		0	0					
		0	2	15.6				
		0	0	0				
		0	0					
		0	2	15.6				
		0	2	3.6				
		0	0					
		0	3	23.4				
		0	2	3.6				
		0	0					
		0	1	2.8				
		0	2	24.8				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Moomba 50	28 04 11.590	140 11 17.810	Murteree Sh	2995.6	2770.6							
Moomba 51	28 08 24.130	140 22 20.900	Toolachee Fm	2472.2	2596.0							
Moomba 51	28 08 24.130	140 22 20.900	Daralingie Fm	2596.0	2697.5							
Moomba 51	28 08 24.130	140 22 20.900	Roseneath Sh	2697.5	2776.4							
Moomba 51	28 08 24.130	140 22 20.900	Murteree Sh	2776.4	2959.9							
Moomba 51	28 08 24.130	140 22 20.900	Patchawarra Fm	2884.0	3334.5							
Moomba 51	28 08 24.130	140 22 20.900	Epsilon Fm	2959.9	2884.0							
Moomba 52	28 08 39.620	140 15 38.180	Toolachee Fm	2339.6	2443.9							
Moomba 52	28 08 39.620	140 15 38.180	Roseneath Sh	2443.9	2529.8							
Moomba 52	28 08 39.620	140 15 38.180	Daralingie Fm	2529.8	2503.6							
Moomba 53	28 07 26.360	140 08 04.430	Toolachee Fm	2342.7	2403.0							
Moomba 53	28 07 26.360	140 08 04.430	Daralingie Fm	2403.0	2459.7							
Moomba 53	28 07 26.360	140 08 04.430	Roseneath Sh	2459.7	2512.2							
Moomba 54	28 04 53.520	140 13 18.880	Toolachee Fm	2426.2	2513.7							
Moomba 54	28 04 53.520	140 13 18.880	Daralingie Fm	2513.7	2567.3							
Moomba 54	28 04 53.520	140 13 18.880	Roseneath Sh	2567.3	2626.2							
Moomba 54	28 04 53.520	140 13 18.880	Epsilon Fm	2626.2	2698.7							
Moomba 54	28 04 53.520	140 13 18.880	Patchawarra Fm	2698.7	2960.8							
Moomba 54	28 04 53.520	140 13 18.880	Murteree Sh	2960.8	2757.8							
Moomba 55	28 05 11.050	140 15 57.090	Toolachee Fm	2445.1	2539.3							
Moomba 55	28 05 11.050	140 15 57.090	Daralingie Fm	2539.3	2614.0							
Moomba 55	28 05 11.050	140 15 57.090	Roseneath Sh	2614.0	2678.9							
Moomba 55	28 05 11.050	140 15 57.090	Epsilon Fm	2678.9	2758.1							
Moomba 55	28 05 11.050	140 15 57.090	Murteree Sh	2758.1	2822.8							
Moomba 55	28 05 11.050	140 15 57.090	Patchawarra Fm	2822.8	3074.5							
Moomba 56	28 04 14.640	140 09 08.070	Toolachee Fm	2477.4	2559.7							
Moomba 56	28 04 14.640	140 09 08.070	Daralingie Fm	2559.7	2621.9							
Moomba 56	28 04 14.640	140 09 08.070	Epsilon Fm	2621.9	2744.1							
Moomba 56	28 04 14.640	140 09 08.070	Murteree Sh	2676.4	2802.3							
Moomba 56	28 04 14.640	140 09 08.070	Roseneath Sh	2744.1	2676.4							
Moomba 56	28 04 14.640	140 09 08.070	Patchawarra Fm	2802.3	3092.5							
Moomba 57	28 12 16.176	140 16 31.388	Toolachee Fm	2354.3	2471.9							
Moomba 57	28 12 16.176	140 16 31.388	Daralingie Fm	2471.9	2546.3							
Moomba 57	28 12 16.176	140 16 31.388	Roseneath Sh	2546.3	2629.8							
Moomba 57	28 12 16.176	140 16 31.388	Epsilon Fm	2629.8	2724.3							
Moomba 57	28 12 16.176	140 16 31.388	Murteree Sh	2724.3	2796.5							
Moomba 57	28 12 16.176	140 16 31.388	Patchawarra Fm	2796.5	10048.0							
Moomba 58	28 02 33.850	140 11 14.830	Toolachee Fm	2460.7	2539.0							
Moomba 58	28 02 33.850	140 11 14.830	Daralingie Fm	2539.0	2603.6							
Moomba 58	28 02 33.850	140 11 14.830	Epsilon Fm	2603.6	2724.6							
Moomba 58	28 02 33.850	140 11 14.830	Murteree Sh	2656.9	2781.0							
Moomba 58	28 02 33.850	140 11 14.830	Roseneath Sh	2724.6	2656.9							
Moomba 58	28 02 33.850	140 11 14.830	Patchawarra Fm	2781.0	3012.3							
Moomba 59	28 05 17.330	140 07 03.910	Toolachee Fm	2377.4	2435.7							
Moomba 59	28 05 17.330	140 07 03.910	Roseneath Sh	2435.7	2539.9							

Table 2 *Alginite Database*

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0	0					
		0	3	23.4				
		0	1	1.8				
		0	0					
		0	0					
		0	2	24.8				
		0	1	2.8				
		0	3	23.4				
		0	0					
		0	0	0				
		0	2	15.6				
		0	2	3.6				
		0	0					
		0	2	15.6				
		0	2	3.6				
		0	0					
		0	2	5.6				
		0	1	12.4				
		0	0					
		0	1	7.8				
		0	1	1.8				
		0	0					
		0	1	2.8				
		0	0					
		0	3	37.2				
		1	5	39				
		1	2	3.6				
		0	4	11.2				
		0	0					
		0	0					
		0	3	37.2				
		1	2	15.6				
		1	1	1.8				
		0	0					
		1	1	2.8				
		0	0					
		0	1	12.4				
		0	4	31.2				
		0	3	5.4				
		0	2	5.6				
		0	0					
		0	0					
		0	5	62				
		0	5	39				
		0	1					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Moomba 59	28 05 17.330	140 07 03.910	Epsilon Fm	2482.9	2605.1							
Moomba 59	28 05 17.330	140 07 03.910	Daralingie Fm	2539.9	2482.9							
Moomba 59	28 05 17.330	140 07 03.910	Murteree Sh	2605.1	2653.0							
Moomba 59	28 05 17.330	140 07 03.910	Patchawarra Fm	2653.0	2869.1							
Moomba 60	28 04 36.660	140 09 49.420	Toolachee Fm	2491.4	2567.6							
Moomba 60	28 04 36.660	140 09 49.420	Daralingie Fm	2567.6	2630.4							
Moomba 60	28 04 36.660	140 09 49.420	Roseneath Sh	2630.4	2687.1							
Moomba 60	28 04 36.660	140 09 49.420	Murteree Sh	2687.1	2818.8							
Moomba 60	28 04 36.660	140 09 49.420	Patchawarra Fm	2763.9	3124.8							
Moomba 60	28 04 36.660	140 09 49.420	Epsilon Fm	2818.8	2763.9							
Moomba 61	28 06 07.000	140 16 57.890	Toolachee Fm	2459.7	2559.1							
Moomba 61	28 06 07.000	140 16 57.890	Daralingie Fm	2559.1	2635.9							
Moomba 61	28 06 07.000	140 16 57.890	Roseneath Sh	2635.9	2703.9							
Moomba 61	28 06 07.000	140 16 57.890	Epsilon Fm	2703.9	2800.2							
Moomba 61	28 06 07.000	140 16 57.890	Patchawarra Fm	2800.2	3215.6							
Moomba 61	28 06 07.000	140 16 57.890	Murteree Sh	3215.6	2870.6							
Moomba 62	28 07 14.020	140 11 19.430	Toolachee Fm	2362.8	2438.4							
Moomba 62	28 07 14.020	140 11 19.430	Daralingie Fm	2438.4	2480.5							
Moomba 62	28 07 14.020	140 11 19.430	Roseneath Sh	2480.5	2557.3							
Moomba 62	28 07 14.020	140 11 19.430	Epsilon Fm	2557.3	2633.5							
Moomba 62	28 07 14.020	140 11 19.430	Murteree Sh	2633.5	2686.2							
Moomba 62	28 07 14.020	140 11 19.430	Patchawarra Fm	2686.2	2847.4							
Moomba 63	28 02 51.370	140 08 55.818	Toolachee Fm	2411.0	2483.5							
Moomba 63	28 02 51.370	140 08 55.818	Daralingie Fm	2483.5	2542.9							
Moomba 63	28 02 51.370	140 08 55.818	Roseneath Sh	2542.9	2591.4							
Moomba 63	28 02 51.370	140 08 55.818	Epsilon Fm	2591.4	2654.8							
Moomba 63	28 02 51.370	140 08 55.818	Murteree Sh	2654.8	2699.9							
Moomba 63	28 02 51.370	140 08 55.818	Patchawarra Fm	2699.9	2702.4							
Moomba 64	28 14 09.054	140 13 50.746	Toolachee Fm	2326.5	2420.4							
Moomba 64	28 14 09.054	140 13 50.746	Daralingie Fm	2420.4	2497.8							
Moomba 64	28 14 09.054	140 13 50.746	Roseneath Sh	2497.8	2560.9							
Moomba 64	28 14 09.054	140 13 50.746	Epsilon Fm	2560.9	2646.3							
Moomba 64	28 14 09.054	140 13 50.746	Murteree Sh	2646.3	2701.7							
Moomba 65	28 14 37.182	140 10 32.566	Toolachee Fm	2358.8	2461.0							
Moomba 65	28 14 37.182	140 10 32.566	Daralingie Fm	2461.0	2546.9							
Moomba 65	28 14 37.182	140 10 32.566	Roseneath Sh	2546.9	2607.3							
Moomba 65	28 14 37.182	140 10 32.566	Epsilon Fm	2607.3	2694.4							
Moomba 65	28 14 37.182	140 10 32.566	Murteree Sh	2694.4	2746.9							
Moomba 66	28 11 56.611	140 08 52.157	Toolachee Fm	2380.5	2469.5							
Moomba 66	28 11 56.611	140 08 52.157	Daralingie Fm	2469.5	2540.5							
Moomba 66	28 11 56.611	140 08 52.157	Roseneath Sh	2540.5	2606.0							
Moomba 66	28 11 56.611	140 08 52.157	Epsilon Fm	2606.0	2690.8							
Moomba 66	28 11 56.611	140 08 52.157	Murteree Sh	2690.8	2751.7							
Moomba 66	28 11 56.611	140 08 52.157	Patchawarra Fm	2751.7	3067.2							
Moomba 67	28 10 50.659	140 14 07.675	Toolachee Fm	2296.1	2388.1							

Table 2 *Alginite Database*

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0	3	8.4				
		0	1	1.8				
		0	0					
		0	4	49.6				
		0	4	31.2				
		0	0	0				
		0	0					
		0	0					
		0	3	37.2				
		0	2	5.6				
		0	3	23.4				
		0	2	3.6				
		0	0					
		0	3	8.4				
		0	2	24.8				
		0	0					
		0	2	15.6				
		0	3	5.4				
		0	1					
		0	1	2.8				
		0	1					
		0	2	24.8				
		0	3	23.4				
		0	1	1.8			Marshall	
		0	0				Marshall	
		0	1	2.8			Marshall	
		0	0				Marshall	
		0	3	37.2			Marshall	
		0	3	23.4				
		0	3	5.4				
		0	0					
		0	1	2.8				
		0	0					
		0	5	39				
		0	4	7.2				
		0	0					
		0	1	2.8				
		0	0					
		3	3	23.4				
		0	1	1.8				
		0	0					
		0	1	2.8				
		0	0					
		0	1	12.4				
		0	3	23.4				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Moomba 67	28 10 50.659	140 14 07.675	Daralingie Fm	2388.1	2459.7							
Moomba 67	28 10 50.659	140 14 07.675	Roseneath Sh	2459.7	2520.7							
Moomba 67	28 10 50.659	140 14 07.675	Epsilon Fm	2520.7	2596.6							
Moomba 67	28 10 50.659	140 14 07.675	Murteree Sh	2596.6	2634.1							
Moomba 68	28 15 17.418	140 12 02.176	Toolachee Fm	2381.1	2479.5							
Moomba 68	28 15 17.418	140 12 02.176	Daralingie Fm	2479.5	2555.4							
Moomba 68	28 15 17.418	140 12 02.176	Roseneath Sh	2555.4	2623.1							
Moomba 68	28 15 17.418	140 12 02.176	Epsilon Fm	2623.1	2721.3							
Moomba 68	28 15 17.418	140 12 02.176	Murteree Sh	2721.3	2765.5							
Moomba 69	28 08 39.192	140 05 34.555	Toolachee Fm	2441.8	2510.9							
Moomba 69	28 08 39.192	140 05 34.555	Daralingie Fm	2510.9	2593.5							
Moomba 69	28 08 39.192	140 05 34.555	Roseneath Sh	2593.5	2652.1							
Moomba 69	28 08 39.192	140 05 34.555	Epsilon Fm	2652.1	2721.6							
Moomba 69	28 08 39.192	140 05 34.555	Murteree Sh	2721.6	2779.8							
Moomba 69	28 08 39.192	140 05 34.555	Patchawarra Fm	2779.8	3142.488							
Moomba 71	28 03 10.739	140 07 56.863	Toolachee Fm	2462.5	2535.6							
Moomba 71	28 03 10.739	140 07 56.863	Daralingie Fm	2535.6	2593.2							
Moomba 71	28 03 10.739	140 07 56.863	Roseneath Sh	2593.2	2637.4							
Moomba 77	28 05 58.658	140 05 47.630	Toolachee Fm	2417.7	2478.6	1	0	2	1	1	0	0
Moomba 77	28 05 58.658	140 05 47.630	Daralingie Fm	2478.6	2521.9	1.1	0	0	1	0	0	0
Moomba 77	28 05 58.658	140 05 47.630	Roseneath Sh	2521.9	2556.4	1.2	0	1	1	0	0	0
Moomba 77	28 05 58.658	140 05 47.630	Epsilon Fm	2556.4	2648.1	1.2	0	1	1	0	0	0
Moomba 77	28 05 58.658	140 05 47.630	Murteree Sh	2648.1	2698.1		0	0	0	0	0	0
Moomba 77	28 05 58.658	140 05 47.630	Patchawarra Fm	2698.1	2967.8	1.3	0	0	0	0	0	0
Moomba 83	28 13 31.698	140 11 29.112	No Permian									
Moomba 86	28 01 35.619	140 16 20.508	Toolachee Fm	2513.4	2607.0							
Moomba 86	28 01 35.619	140 16 20.508	Daralingie Fm	2607.0	2676.8							
Moomba 86	28 01 35.619	140 16 20.508	Roseneath Sh	2676.8	2737.1							
Moomba 86	28 01 35.619	140 16 20.508	Epsilon Fm	2737.1	2818.8							
Moomba 86	28 01 35.619	140 16 20.508	Murteree Sh	2818.8	2880.1							
Moomba 86	28 01 35.619	140 16 20.508	Patchawarra Fm	2880.1	3085.7952							
Moomba 87	28 07 05.237	140 07 29.170	No Permian									
Moomba 88	28 06 11.249	140 07 19.906	No Permian									
Moomba 89	28 08 20.998	140 12 14.591	No Permian									
Moomba 90	28 02 19.658	140 08 54.930	No Permian									
Moomba 91	28 03 42.497	140 09 03.475	No Permian									
Moomba 92	28 01 53.885	140 13 41.285	No Permian									
Moomba 93	28 03 06.250	140 11 15.920	No Permian									
Moomba 94	28 07 03.091	140 07 27.795	No Permian									
Moomba 95	28 08 39.459	140 09 52.591	No Permian									
Moomba 96	28 14 03.263	140 10 53.950	No Permian									
Moomba 97	28 06 56.830	140 07 36.905	No Permian									
Moomba 98	28 13 07.647	140 12 47.433	No Permian									
Moomba 99	28 07 02.467	140 07 40.761	No Permian									
Moomba North 1	28 04 06.150	140 14 26.130	Toolachee Fm	2445.4	2533.5							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0	2	3.6				
			0	0					
			0	1	2.8				
			0	0					
			0						
			0						
			0						
			0						
			0						
			0						
			0						
			0						
			0						
			0						
			0	5	39			Wood	
			0	2	3.6			Wood	
			0	0				Wood	
4			0	2	15.6			Benson	
1			0	2	3.6			Benson	
2			0	0				Benson	
2			0	1	2.8			Benson	
0			0	0				Benson	
0			0	3	37.2			Benson	
			0						
			0						
			0						
			0						
			0						
			0						

0

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Moomba North 1	28 04 06.150	140 14 26.130	Daralingie Fm	2533.5	2595.1							
Moomba North 1	28 04 06.150	140 14 26.130	Roseneath Sh	2595.1	2655.4							
Moomba North 1	28 04 06.150	140 14 26.130	Epsilon Fm	2655.4	2730.1							
Moomba North 1	28 04 06.150	140 14 26.130	Murteree Sh	2730.1	2791.7							
Moomba North 1	28 04 06.150	140 14 26.130	Patchawarra Fm	2791.7	2997.0984							
Moomba North 2	28 03 00.620	140 15 23.110	Toolachee Fm	2441.4	2525.6							
Moomba North 2	28 03 00.620	140 15 23.110	Daralingie Fm	2525.6	2590.2							
Moomba North 2	28 03 00.620	140 15 23.110	Roseneath Sh	2590.2	2648.1							
Moomba North 2	28 03 00.620	140 15 23.110	Epsilon Fm	2648.1	2718.2							
Moomba North 2	28 03 00.620	140 15 23.110	Murteree Sh	2718.2	2773.7							
Moomba North 2	28 03 00.620	140 15 23.110	Patchawarra Fm	2773.7								
Moomba South 1	28 14 54.220	140 12 47.610	Toolachee Fm	2335.4	2428.0							
Moomba South 1	28 14 54.220	140 12 47.610	Daralingie Fm	2428.0	2503.9							
Moomba South 1	28 14 54.220	140 12 47.610	Roseneath Sh	2503.9	2564.9							
Moomba South 1	28 14 54.220	140 12 47.610	Epsilon Fm	2564.9	2655.4							
Moomba South 1	28 14 54.220	140 12 47.610	Murteree Sh	2655.4	2715.2							
Moomba South 1	28 14 54.220	140 12 47.610	Patchawarra Fm	2715.2	3002.8896							
Moonanga 1	28 00 50.000	139 47 36.400	Toolachee Fm	2401.2	2457.9							
Moonanga 1	28 00 50.000	139 47 36.400	Roseneath Sh	2457.9	2476.8							
Moonanga 1	28 00 50.000	139 47 36.400	Epsilon Fm	2476.8	2539.9							
Moonanga 1	28 00 50.000	139 47 36.400	Murteree Sh	2539.9	2578.3							
Moonanga 1	28 00 50.000	139 47 36.400	Patchawarra Fm	2578.3	3049.8288							
Moondie 1	27 15 02.859	140 34 56.069	Toolachee Fm	3099.8	3167.5	0	0	0	0	0	0	0
Moondie 1	27 15 02.859	140 34 56.069	Epsilon Fm	3167.5	3174.8	0	0	0	0	0	0	0
Moondie 1	27 15 02.859	140 34 56.069	Murteree Sh	3174.8	3175.4	0	0	0	0	0	0	0
Moondie 1	27 15 02.859	140 34 56.069	Patchawarra Fm	3175.4	3409.5	0	0	0	0	0	0	0
Mooran 1	28 04 06.910	139 57 14.950	Toolachee Fm	2198.5	2234.2	0	0	0	0	0	0	0
Mooran 1	28 04 06.910	139 57 14.950	Epsilon Fm	2234.2	2250.9	0	0	0	0	0	0	0
Mooran 1	28 04 06.910	139 57 14.950	Murteree Sh	2250.9	2267.7	0	0	0	0	0	0	0
Mooran 1	28 04 06.910	139 57 14.950	Patchawarra Fm	2267.7	2486.6	0	0	0	0	0	0	0
Moorari 3	27 33 55.930	140 07 44.630	Toolachee Fm	2654.5	2700.5							
Moorari 3	27 33 55.930	140 07 44.630	Epsilon Fm	2700.5	2709.4							
Moorari 3	27 33 55.930	140 07 44.630	Murteree Sh	2709.4	2728.0							
Moorari 3	27 33 55.930	140 07 44.630	Patchawarra Fm	2728.0	2864.5							
Moorari 4	27 33 23.270	140 08 02.320	Toolachee Fm	2671.9	2694.7							
Moorari 4	27 33 23.270	140 08 02.320	Epsilon Fm	2694.7	2715.2							
Moorari 4	27 33 23.270	140 08 02.320	Murteree Sh	2715.2	2731.3							
Moorari 4	27 33 23.270	140 08 02.320	Patchawarra Fm	2731.3	2734.7							
Moorari 5	27 33 51.580	140 08 13.930	No Permian									
Moorari 6	27 33 30.430	140 08 41.310	Toolachee Fm	2719.1	2749.3							
Moorari 6	27 33 30.430	140 08 41.310	Epsilon Fm	2749.3	2767.6							
Moorari 6	27 33 30.430	140 08 41.310	Murteree Sh	2767.6	2783.1							
Moorari 6	27 33 30.430	140 08 41.310	Patchawarra Fm	2783.1	2944.4							
Moorari 7	27 34 11.320	140 08 02.720	Toolachee Fm	2702.4	2728.0							
Moorari 7	27 34 11.320	140 08 02.720	Epsilon Fm	2728.0	2748.1							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
	0							
	0							
	0							
	0							
	0							
	0							
	0							
	0							
	0							
	0							
	0							
	0							
	0							
	0							
0	0		5	39				
0	0		0	0				
0	0		0					
0	3		5	62				
0	0		2	15.6			Wood	
0	0		1	2.8			Wood	
0	0		0				Wood	
0	0		3	37.2			Wood	
	0		5	39				
	0		2	5.6				
	0		0					
	2.5		4	49.6				
	0		4	31.2				
	0		2	5.6				
	0		0					
	1		3	37.2				
	0		2	15.6			Price	
	0		2	5.6			Price	
	0		0				Price	
	0		1	12.4			Price	
	1.5							

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Moorari 7	27 34 11.320	140 08 02.720	Murteree Sh	2748.1	2758.1							
Moorari 7	27 34 11.320	140 08 02.720	Patchawarra Fm	2758.1								
Moorari 9	27 33 05.841	140 08 29.375	Toolachee Fm	2717.0	2752.3		0	0	0	0	0	0
Moorari 9	27 33 05.841	140 08 29.375	Epsilon Fm	2752.3	2772.5	0.85	0	0	0	0	0	0
Moorari 9	27 33 05.841	140 08 29.375	Murteree Sh	2772.5	2789.8		0	0	0	0	0	0
Moorari 9	27 33 05.841	140 08 29.375	Patchawarra Fm	2789.8	2956.3	1	0	0	1	0	0	0
Mudera 1	28 10 22.270	140 33 05.170	Toolachee Fm	2021.4	2078.1		0	0	0	0	0	0
Mudera 1	28 10 22.270	140 33 05.170	Murteree Sh	2078.1	2106.8		0	0	0	0	0	0
Mudera 1	28 10 22.270	140 33 05.170	Patchawarra Fm	2106.8	2294.5		0	0	0	0	0	0
Mudera 2	28 09 59.060	140 33 13.990	Toolachee Fm	2032.1	2083.0							
Mudera 2	28 09 59.060	140 33 13.990	Murteree Sh	2083.0	2109.8							
Mudera 2	28 09 59.060	140 33 13.990	Patchawarra Fm	2109.8	2283.3							
Mudera 3	28 11 20.310	140 33 42.660	Toolachee Fm	2023.3	2055.3							
Mudera 3	28 11 20.310	140 33 42.660	Epsilon Fm	2055.3	2084.8							
Mudera 3	28 11 20.310	140 33 42.660	Murteree Sh	2084.8	2125.7							
Mudera 3	28 11 20.310	140 33 42.660	Patchawarra Fm	2125.7	2319.8							
Mudera 4	28 10 26.920	140 34 01.810	Toolachee Fm	2057.4	2107.4							
Mudera 4	28 10 26.920	140 34 01.810	Murteree Sh	2107.4	2148.8							
Mudera 4	28 10 26.920	140 34 01.810	Patchawarra Fm	2148.8	1765.4							
Mudlalee 2	28 18 24.380	140 32 20.110	Toolachee Fm	1753.5	1802.0	1.0						
Mudlalee 2	28 18 24.380	140 32 20.110	Murteree Sh	1802.0	1808.1							
Mudlalee 2	28 18 24.380	140 32 20.110	Patchawarra Fm	1808.1								
Mudlalee 3	28 18 07.614	140 32 41.493	Toolachee Fm	1715.1	1755.0							
Mudlalee 3	28 18 07.614	140 32 41.493	Patchawarra Fm	1755.0	1789.8							
Mudrangie 3	27 38 10.840	140 16 14.610	Toolachee Fm	2694.4	2732.8	0.9	0	0	0	0	0	0
Mudrangie 3	27 38 10.840	140 16 14.610	Epsilon Fm	2732.8	2753.0	0.9	0	0	0	0	0	0
Mudrangie 3	27 38 10.840	140 16 14.610	Murteree Sh	2753.0	2770.0	1	0	0	0	0	0	0
Mudrangie 3	27 38 10.840	140 16 14.610	Patchawarra Fm	2770.0	3035.2	1.2	0	0	0	0	0	0
Mulga 2	28 40 44.560	140 32 09.180	Toolachee Fm	1614.5	1667.9		0	0	0	0	0	0
Mulga 2	28 40 44.560	140 32 09.180	Daralingie Fm	1667.9	1680.1		0	0	0	0	0	0
Mulga 2	28 40 44.560	140 32 09.180	Roseneath Sh	1680.1	1698.0		0	0	0	0	0	0
Mulga 2	28 40 44.560	140 32 09.180	Epsilon Fm	1698.0	1763.3		0	0	0	0	0	0
Mulga 2	28 40 44.560	140 32 09.180	Murteree Sh	1763.3	1809.3		0	0	0	0	0	0
Mulga 2	28 40 44.560	140 32 09.180	Patchawarra Fm	1809.3	1850.1		0	0	0	0	0	0
Mundi 1	28 22 49.530	140 43 19.910	Toolachee Fm	1947.7	2084.8	0.95	0	0	0	0	0	0
Mundi 1	28 22 49.530	140 43 19.910	Daralingie Fm	2080.9	2122.0	1.1						
Mundi 1	28 22 49.530	140 43 19.910	Roseneath Sh	2121.4	2395.7	1.27	0	0	0	0	0	0
Mundi 1	28 22 49.530	140 43 19.910	Patchawarra Fm	2303.1		1.5						
Mundi 2	28 23 23.466	140 42 50.924	Toolachee Fm	1953.2	2078.7							
Mundi 2	28 23 23.466	140 42 50.924	Daralingie Fm	2078.7	2117.1							
Mundi 2	28 23 23.466	140 42 50.924	Roseneath Sh	2117.1	2164.7							
Mundi 2	28 23 23.466	140 42 50.924	Epsilon Fm	2164.7	2233.6							
Mundi 2	28 23 23.466	140 42 50.924	Murteree Sh	2233.6	2291.5							
Mundi 2	28 23 23.466	140 42 50.924	Patchawarra Fm	2291.5	2378.4							
Mundi 3	28 22 51.217	140 42 58.807	Toolachee Fm	1931.8	2054.0							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0.5						
0			0	2	15.6			Wood, Benson	
0			0	3	8.4			Wood, Benson	
0			0	0				Wood, Benson	
1			0	4	49.6			Wood, Benson	
0			0	4	31.2			Williams	
0			0	0				Williams	
0			0	3	37.2			Williams	
			1	2	15.6				
			0	0					
				1	12.4				
			0	2	15.6				
			0	0					
			1	2	24.8				
			0	3	23.4				
			0	0					
			0	2	24.8				
			2	1	7.8				
			0	0	0				
0			0	4	31.2			Wood, Benson	
0			0	4	11.2			Wood, Benson	
0			0	0				Wood, Benson	
0			0	5	62			Wood, Benson	
0			0	1	7.8			Wood, Williams	
0			0	0	0			Wood, Williams	
0			0	0				Wood, Williams	
0			0	1	2.8			Wood, Williams	
0			0	0				Wood, Williams	
0			0	1	12.4			Wood, Williams	
0			1	2	15.6		5	Jones, Wood	
0			1	0			5	Jones, Wood	
			1	3	23.4				
			0	2	3.6				
			0	0					
			0	1	2.8				
			0	0					
			0	2	24.8				
			0	4	31.2				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Mundi 3	28 22 51.217	140 42 58.807	Daralingie Fm	2054.0	2086.1							
Mundi 3	28 22 51.217	140 42 58.807	Roseneath Sh	2086.1	2132.1							
Mundi 3	28 22 51.217	140 42 58.807	Epsilon Fm	2132.1	2196.1							
Mundi 3	28 22 51.217	140 42 58.807	Murteree Sh	2196.1	2248.8							
Mundi 3	28 22 51.217	140 42 58.807	Patchawarra Fm	2248.8	2303.7							
Mundi 4	28 24 07.177	140 43 08.987	Toolachee Fm	1929.1	2056.5							
Mundi 4	28 24 07.177	140 43 08.987	Daralingie Fm	2056.5	2099.5							
Mundi 4	28 24 07.177	140 43 08.987	Roseneath Sh	2099.5	2143.4							
Mundi 4	28 24 07.177	140 43 08.987	Epsilon Fm	2143.4	2211.6							
Mundi 4	28 24 07.177	140 43 08.987	Murteree Sh	2211.6	2265.9							
Mundi 4	28 24 07.177	140 43 08.987	Patchawarra Fm	2265.9	2364.0							
Mundi 5	28 22 35.457	140 42 53.558	Toolachee Fm	1948.6	2073.2							
Mundi 5	28 22 35.457	140 42 53.558	Daralingie Fm	2073.2	2112.3							
Mundi 5	28 22 35.457	140 42 53.558	Roseneath Sh	2112.3	2154.3							
Mundi 5	28 22 35.457	140 42 53.558	Epsilon Fm	2154.3	2222.0							
Mundi 5	28 22 35.457	140 42 53.558	Murteree Sh	2222.0	2279.6							
Mundi 5	28 22 35.457	140 42 53.558	Patchawarra Fm	2279.6	2362.5							
Munkarie 1	28 27 37.320	140 55 19.540	Toolachee Fm	1785.2	1941.6	1.7						
Munkarie 1	28 27 37.320	140 55 19.540	Daralingie Fm	1941.6	1967.2							
Munkarie 1	28 27 37.320	140 55 19.540	Roseneath Sh	1967.2	2044.0							
Munkarie 1	28 27 37.320	140 55 19.540	Epsilon Fm	2044.0	2111.3	2.0						
Munkarie 1	28 27 37.320	140 55 19.540	Murteree Sh	2111.3	2167.7							
Munkarie 1	28 27 37.320	140 55 19.540	Patchawarra Fm	2167.7		2.3						
Munkarie 2	28 28 17.910	140 55 17.250	Toolachee Fm	1771.8	1930.0	0.85	0	0	0	0	0	0
Munkarie 2	28 28 17.910	140 55 17.250	Daralingie Fm	1930.0	1958.0	0.85	0	1	0	0	0	0
Munkarie 2	28 28 17.910	140 55 17.250	Roseneath Sh	1958.0	2049.8	0.95	0	1	0	0	0	0
Munkarie 2	28 28 17.910	140 55 17.250	Epsilon Fm	2049.8	2105.3	0.95	0	1	0	0	0	0
Munkarie 2	28 28 17.910	140 55 17.250	Murteree Sh	2105.3	2158.6	0.95	0	0	0	0	0	0
Munkarie 2	28 28 17.910	140 55 17.250	Patchawarra Fm	2158.6	2282.0	0.95	0	1	0	0	0	0
Munkarie 3	28 26 39.400	140 54 38.170	Toolachee Fm	1802.0	1971.8							
Munkarie 3	28 26 39.400	140 54 38.170	Daralingie Fm	1971.8	2008.0							
Munkarie 3	28 26 39.400	140 54 38.170	Roseneath Sh	2008.0	2065.9							
Munkarie 3	28 26 39.400	140 54 38.170	Epsilon Fm	2065.9	2141.5							
Munkarie 3	28 26 39.400	140 54 38.170	Murteree Sh	2141.5	2195.5							
Munkarie 3	28 26 39.400	140 54 38.170	Patchawarra Fm	2195.5	2332.9							
Munkarie 4	28 28 38.470	140 54 43.160	Toolachee Fm	1765.4	1919.0		0	1	1	1	0	1
Munkarie 4	28 28 38.470	140 54 43.160	Daralingie Fm	1919.0	1959.3		0	1	1	1	0	1
Munkarie 4	28 28 38.470	140 54 43.160	Roseneath Sh	1959.3	2025.1		0	0	0	0	0	0
Munkarie 4	28 28 38.470	140 54 43.160	Epsilon Fm	2025.1	2087.6		0	0	0	0	0	0
Munkarie 4	28 28 38.470	140 54 43.160	Murteree Sh	2087.6	2148.8		0	0	0	0	0	0
Munkarie 4	28 28 38.470	140 54 43.160	Patchawarra Fm	2148.8	2254.9		0	0	0	0	0	0
Munkarie 8	28 27 56.518	140 55 09.879	Toolachee Fm	1771.5	1922.7							
Munkarie 8	28 27 56.518	140 55 09.879	Daralingie Fm	1922.7	1947.4							
Munkarie 8	28 27 56.518	140 55 09.879	Roseneath Sh	1947.4	2023.3							
Munkarie 8	28 27 56.518	140 55 09.879	Epsilon Fm	2023.3	2100.4							

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0	1	1.8				
			0	0					
			0	1	2.8				
			0	0					
			0	1	12.4				
			1	2	15.6				
			0	3	5.4				
			0	0					
			0	1	2.8				
			0	0					
			0	2	24.8				
			1	4	31.2				
			0	0	0				
			0	0					
			0	1	2.8				
			0	0					
			0	1	12.4				
0			0	1	7.8			Jones, Filatoff	
1			0	1	1.8			Jones, Filatoff	
1			0	0				Jones, Filatoff	
1			0	1	2.8			Jones, Filatoff	
0			0	0				Jones, Filatoff	
1			0	1	12.4			Jones, Filatoff	
			0	1	7.8				
			0	2	3.6				
			0	0					
			0	2	5.6				
			0	1					
			0	1	12.4				
4			0	4	31.2			Williams	
4			0	1	1.8			Williams	
0			0	0				Williams	
0			0	3	8.4			Williams	gas show
0			0	0				Williams	
0			0	2	24.8			Williams	
			0	3	23.4				
			0	3	5.4				
			0	0					
			0	1	2.8				

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Munkarie 8	28 27 56.518	140 55 09.879	Murteree Sh	2100.4	2142.7							
Munkarie 8	28 27 56.518	140 55 09.879	Patchawarra Fm	2142.7	2222.3							
Munkarie 9	28 28 14.949	140 54 41.214	No Permian									
Murteree 2	28 23 46.190	140 33 17.530	Toolachee Fm	1791.6	1859.9	0.93	0	0	0	0	0	0
Murteree 2	28 23 46.190	140 33 17.530	Epsilon Fm	1859.9	1891.9	0.99	0	0	0	0	0	0
Murteree 2	28 23 46.190	140 33 17.530	Murteree Sh	1891.9	1939.1	1.12	0	0	0	0	0	0
Murteree 2	28 23 46.190	140 33 17.530	Patchawarra Fm	1939.1	2125.7	1.04	0	0	0	0	0	0
Muscat 1	28 10 54.257	139 55 03.552	Toolachee Fm	1916.6	1917.8		0	0	0	0	0	0
Muscat 1	28 10 54.257	139 55 03.552	Patchawarra Fm	2021.5	2034.5		0	0	0	0	0	0
Muscat 1	28 10 54.257	139 55 03.552	Patchawarra Fm	2021.5	2034.5		0	0	0	0	0	0
Muscat 2	28 11 24.954	139 55 38.346	Toolachee Fm	1954.7	1994.6							
Muscat 2	28 11 24.954	139 55 38.346	Epsilon Fm	1994.6	2007.7							
Muscat 2	28 11 24.954	139 55 38.346	Murteree Sh	2007.7	2033.6							
Muscat 2	28 11 24.954	139 55 38.346	Patchawarra Fm	2033.6	2096.4							
Muteroo 1	28 08 00.770	139 53 24.700	Patchawarra Fm	1900.1	1955.6	0.9	0	0	1	0	0	0
Muteroo 2	28 07 55.560	139 53 38.460	No Permian									
Muteroo 3	28 07 46.690	139 53 49.120	No Permian									
Muteroo 4	28 07 54.300	139 53 50.340	Patchawarra Fm	1880.6	1931.2	0.8	1	0	0	1	0	1
Muteroo 5	28 08 07.130	139 53 26.640	Patchawarra Fm	1894.6	1965.4							
Namur 3	28 11 15.870	140 25 12.260	Toolachee Fm	2090.9	2140.3							
Namur 3	28 11 15.870	140 25 12.260	Murteree Sh	2140.3	2142.7							
Namur 3	28 11 15.870	140 25 12.260	Patchawarra Fm	2142.7	2329.9							
Nanima 1	28 16 35.100	140 37 18.560	Toolachee Fm	1866.6	1954.1							
Nanima 1	28 16 35.100	140 37 18.560	Murteree Sh	1954.1	2002.5							
Nanima 1	28 16 35.100	140 37 18.560	Patchawarra Fm	2002.5	2083.9176							
Napowie 1	27 29 25.092	140 38 49.148	Toolachee Fm	2762.7	2830.4		0	0	0	0	0	0
Napowie 1	27 29 25.092	140 38 49.148	Epsilon Fm	2830.4	2857.8		0	0	0	0	0	0
Napowie 1	27 29 25.092	140 38 49.148	Murteree Sh	2857.8	2888.6	1	0	0	0	0	0	0
Napowie 1	27 29 25.092	140 38 49.148	Patchawarra Fm	2888.6	3280.6	1.1	0	0	0	0	0	0
Nappacoongee East 1	28 01 35.041	140 46 52.245	Toolachee Fm	1855.3	1907.4	1	0	0	0	0	0	0
Nappacoongee East 1	28 01 35.041	140 46 52.245	Patchawarra Fm	1907.4	1945.2	1.1	0	0	1	1	0	0
Narcoonowie 1	27 32 22.241	140 36 54.998	Toolachee Fm	1683.1	1753.8		0	0	0	0	0	0
Narcoonowie 1	27 32 22.241	140 36 54.998	Roseneath Sh	1753.8	1770.3		0	0	0	0	0	0
Narcoonowie 1	27 32 22.241	140 36 54.998	Epsilon Fm	1770.3	1808.4		0	0	0	0	0	0
Narcoonowie 1	27 32 22.241	140 36 54.998	Murteree Sh	1808.4	1842.8		0	0	0	1	0	0
Narcoonowie 1	27 32 22.241	140 36 54.998	Patchawarra Fm	1842.8	1862.9		0	0	0	0	0	0
Narcoonowie 2	28 29 40.310	140 43 15.190	No Permian									
Narcoonowie 3	28 29 15.950	140 43 34.700	No Permian									
Narcoonowie 4	28 29 29.438	140 43 24.653	No Permian									
Nardu 1	27 32 22.241	140 36 54.998	No Permian									
Narie 1	27 46 19.280	140 05 27.520	Toolachee Fm	2423.5	2460.0		0	0	0	0	0	0
Narie 1	27 46 19.280	140 05 27.520	Patchawarra Fm	2460.0	2692.3	1.2	0	0	0	0	0	0
Narie 2	27 46 34.890	140 05 14.420	Toolachee Fm	2432.9	2475.3	0.75	0	0	0	0	0	0
Narie 2	27 46 34.890	140 05 14.420	Patchawarra Fm	2475.3	2742.6	0.85	0	1	0	0	0	0
Nealyon 1	28 10 21.460	139 35 07.040	No Permian									

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0	0					
			4	1	12.4				
0		4	0	1	7.8			Williams, Wood	photo of telalginite
0			0	1	2.8			Williams, Wood	
0			0	0				Williams, Wood	
0		1	0	1	12.4			Williams, Wood	
0				2	15.6			Wood	
0			1.5	3	37.2			Wood	
0				3	37.2			Wood	
			0	2	15.6				
			1	1	2.8				
			0	0					
			0	2	24.8				
1			1	3	37.2	1	1	Williams	
3			0	1	12.4			Wood	
			4	2	24.8				
			0	3	23.4				
			0	0					
			0	3	37.2				
			3.5						
			0.5						
			0.5						
0			0	1	7.8			Wood, Benson	
0			0	0	0			Wood, Benson	
0			0	0				Wood, Benson	
0			0	1	12.4			Wood, Benson	
0			0	3	23.4			Wood, Benson	
2			0	0	0			Wood, Benson	
0			0	4	31.2			Price	gas show
0			0	0				Price	
0			0	1	2.8			Price	
1			0	0				Price	
0			0	0	0			Price	
0			0	2	15.6			Wood	
0			0	4	49.6			Wood	
0			0	3	23.4			Wood	
1			2	3	37.2			Wood	

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Nephrite 1	27 53 00.647	139 52 51.337	Toolachee Fm	2525.6	2525.6	0.8	0	0	0	0	0	0
Nephrite 1	27 53 00.647	139 52 51.337	Daralingie Fm	2597.5	2597.5		0	0	0	0	0	0
Nephrite 1	27 53 00.647	139 52 51.337	Roseneath Sh	2604.2	2604.2	0.8	0	1	0	0	0	0
Nephrite 1	27 53 00.647	139 52 51.337	Epsilon Fm	2621.9	2621.9	0.85	0	0	0	0	0	0
Nephrite 1	27 53 00.647	139 52 51.337	Murteree Sh	2676.1	2676.1		0	0	0	0	0	0
Nephrite 1	27 53 00.647	139 52 51.337	Patchawarra Fm	2700.5	3145.8	1	0	0	0	1	0	0
Nephrite South 1	27 54 50.305	139 52 17.913	Toolachee Fm	2527.4	2604.8		0	0	0	0	0	0
Nephrite South 1	27 54 50.305	139 52 17.913	Daralingie Fm	2604.8	2609.4		0	0	0	0	0	0
Nephrite South 1	27 54 50.305	139 52 17.913	Roseneath Sh	2609.4	2628.0		0	0	0	0	0	0
Nephrite South 1	27 54 50.305	139 52 17.913	Epsilon Fm	2628.0	2691.1		0	0	0	0	0	0
Nephrite South 1	27 54 50.305	139 52 17.913	Murteree Sh	2691.1	2718.8		0	0	0	0	0	0
Nephrite South 1	27 54 50.305	139 52 17.913	Patchawarra Fm	2718.8	3184.6	1.3	0	0	1	1	0	0
Nephrite South 2	27 54 31.730	139 52 09.000	No Permian									
Nulla 1	27 46 51.640	139 43 04.020	Toolachee Fm	2364.9	2376.2	0.89	0	0	0	0	0	0
Nulla 1	27 46 51.640	139 43 04.020	Epsilon Fm	2376.2	2411.9	0.88	0	0	0	0	0	0
Nulla 1	27 46 51.640	139 43 04.020	Murteree Sh	2411.9	2418.9	0.96	0	0	0	0	0	0
Nulla 1	27 46 51.640	139 43 04.020	Patchawarra Fm	2418.9	2691.4	1.12	0	0	0	0	0	0
Packsaddle 4	27 32 46.580	140 39 06.330	No Permian									
Packsaddle 5	27 32 54.940	140 40 31.400	No Permian									
Padulla 1	28 35 46.690	139 51 22.770	No Permian									
Pampari 1	28 40 13.920	140 08 35.810	No Permian									
Pandruannie 1	28 30 12.250	139 52 18.250	Toolachee Fm	1700.8	1710.2		0	0	0	0	0	0
Pandruannie 1	28 30 12.250	139 52 18.250	Roseneath Sh	1710.2	1718.5	0.7	0	1	0	0	0	0
Pandruannie 1	28 30 12.250	139 52 18.250	Epsilon Fm	1718.5	1763.6	0.7	0	0	0	0	0	0
Pandruannie 1	28 30 12.250	139 52 18.250	Murteree Sh	1763.6	1787.3	0.75	0	1	0	0	0	0
Pandruannie 1	28 30 12.250	139 52 18.250	Patchawarra Fm	1787.3	1803.8	0.75	1	0	1	0	0	0
Paning 1	27 06 02.530	140 56 42.410	Toolachee Fm	2851.7	2902.9	1.3	0	0	0	0	0	0
Paning 1	27 06 02.530	140 56 42.410	Epsilon Fm	2902.9	2962.7	1.4	0	0	0	0	0	0
Paning 1	27 06 02.530	140 56 42.410	Murteree Sh	2962.7	3074.2		0	0	0	0	0	0
Paning 1	27 06 02.530	140 56 42.410	Patchawarra Fm	3074.2		1.3	0	0	0	0	0	0
Papyrus 1	28 12 13.910	139 38 04.730	Patchawarra Fm	1950.1	2054.0	0.8	0	0	0	0	0	0
Patchawarra Bore 1	27 26 00.000	140 41 30.000	No Permian									
Paxton 1	29 06 56.810	140 56 04.950	No Permian									
Pelican 1	27 48 23.370	140 04 53.890	Toolachee Fm	2403.7	2427.4		0	0	0	0	0	0
Pelican 1	27 48 23.370	140 04 53.890	Patchawarra Fm	2436.0	2623.1		0	0	0	0	0	0
Pelican 2	27 48 12.690	140 04 45.040	Toolachee Fm	2371.3	2406.7		0	0	0	0	0	0
Pelican 2	27 48 12.690	140 04 45.040	Patchawarra Fm	2406.7	2623.4	1	0	0	0	0	0	0
Pelican 3	27 47 31.208	140 05 24.254	Toolachee Fm	2402.4	2440.2		0	0	0	0	0	0
Pelican 3	27 47 31.208	140 05 24.254	Patchawarra Fm	2440.2	2659.7	1	0	0	0	0	0	0
Pelican 4	27 48 33.289	140 06 12.733	Toolachee Fm	2422.9	2457.3		0	0	0	0	0	0
Pelican 4	27 48 33.289	140 06 12.733	Patchawarra Fm	2457.3	2725.2	1	0	0	0	0	0	0
Pelican 5	27 46 16.677	140 06 44.951	Toolachee Fm	2414.6	2444.2	0.75	0	0	0	0	0	0
Pelican 5	27 46 16.677	140 06 44.951	Patchawarra Fm	2444.2	2657.2	0.8	0	0	0	0	0	0
Pelican 6	27 48 30.477	140 04 58.743	No Permian									
Pelketa 1	28 26 35.610	140 41 30.190	Toolachee Fm	1836.1	1953.8	1.0						

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			0	4	31.2			Wood, Benson	
0			0	0	0			Wood, Benson	
1			0	0				Wood, Benson	
0			0	3	8.4			Wood, Benson	gas show
0			0	0				Wood, Benson	
1			3	4	49.6			Wood, Benson	gas show
0			0	2	15.6				
0			0	2	3.6			Wood	
0			0	0				Wood	
0			0	2	5.6			Wood	
0			0	0				Wood	
2			0	4	49.6			Wood	
0			1	3	23.4	1	1		
0			1	0	0	1	1		
0			0	0		1	4		
0		1	1	3	37.2	5	5		
0			0	0	0			Wood	
2			0	1				Wood	
1			0	3	8.4			Wood	
1		3	0	0				Wood	
2		3	1	0	0			Wood	
0			0	5	39			Harris	
0			0					Harris	
0			0					Harris	
0			0					Harris	gas show
0				2	24.8		5		
0				3	23.4				
0				5	62				
0			1	3	23.4			Wood	
0			0	2	24.8			Wood	
0			0	2	15.6			Wood, Marshall	
0			1	3	37.2			Wood, Marshall	
0			0	3	23.4			Wood	
0			1	4	49.6			Wood	
0			0	3	23.4			Wood, Marshall	
0			0	4	49.6			Wood, Marshall	

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Pelketa 1	28 26 35.610	140 41 30.190	Daralingie Fm	1953.8	1976.9							
Pelketa 1	28 26 35.610	140 41 30.190	Roseneath Sh	1976.9	2017.8							
Pelketa 1	28 26 35.610	140 41 30.190	Epsilon Fm	2017.8	2080.0	1.1						
Pelketa 1	28 26 35.610	140 41 30.190	Murteree Sh	2080.0	2127.5							
Pelketa 1	28 26 35.610	140 41 30.190	Patchawarra Fm	2127.5		1.1						
Pennie 1	27 19 15.400	140 15 38.003	Toolachee Fm	2807.2	2849.3	0.9	0	0	1	0	0	0
Pennie 1	27 19 15.400	140 15 38.003	Epsilon Fm	2849.3	2865.1		0	0	1	0	0	1
Pennie 1	27 19 15.400	140 15 38.003	Murteree Sh	2865.1	2873.3	0.9	0	0	1	0	0	0
Pennie 1	27 19 15.400	140 15 38.003	Patchawarra Fm	2873.3	2941.6	1	0	1	1	0	0	0
Perenty 1	28 16 11.990	140 38 12.720	Toolachee Fm	1902.0	1911.1	0.92	0	0	0	0	0	0
Pinna 1	28 28 52.450	140 15 13.140	Toolachee Fm	1814.5	1850.4	0.8						
Pinna 1	28 28 52.450	140 15 13.140	Epsilon Fm	1850.4	1875.7	0.9						
Pinna 1	28 28 52.450	140 15 13.140	Murteree Sh	1875.7	1920.2							
Pinna 1	28 28 52.450	140 15 13.140	Patchawarra Fm	1920.2		1.0						
Pintari 1	28 16 49.910	139 46 31.400	No Permian									
Pintari North 1	28 14 34.110	139 46 40.220	Patchawarra Fm	1805.0	1880.0	0.75	0	0	0	0	0	0
Pira 1	28 12 13.910	140 53 34.650	Toolachee Fm	2123.8	2258.0		0	0	0	0	0	0
Pira 1	28 12 13.910	140 53 34.650	Daralingie Fm	2258.0	2270.8		0	0	0	0	0	0
Pira 1	28 12 13.910	140 53 34.650	Roseneath Sh	2270.8	2344.2		0	0	0	0	0	0
Pira 1	28 12 13.910	140 53 34.650	Epsilon Fm	2344.2	2400.3	1.1	0	0	0	0	0	0
Pira 1	28 12 13.910	140 53 34.650	Murteree Sh	2400.3	2454.9		0	0	0	0	0	0
Pira 1	28 12 13.910	140 53 34.650	Patchawarra Fm	2454.9	2761.2		0	0	0	0	0	0
Pira 2	28 12 08.710	140 52 54.420	Toolachee Fm	2120.8	2260.4							
Pira 2	28 12 08.710	140 52 54.420	Daralingie Fm	2260.4	2272.6							
Pira 2	28 12 08.710	140 52 54.420	Roseneath Sh	2272.6	2345.1							
Pira 2	28 12 08.710	140 52 54.420	Epsilon Fm	2345.1	2401.8							
Pira 2	28 12 08.710	140 52 54.420	Murteree Sh	2401.8	2458.8							
Pira 2	28 12 08.710	140 52 54.420	Patchawarra Fm	2458.8	2802.9							
Pirraminta 1	27 37 05.700	140 22 26.040	Toolachee Fm	2370.4	2401.8							
Pirraminta 1	27 37 05.700	140 22 26.040	Patchawarra Fm	2401.8	2406.7							
Plantago 1	28 16 41.050	140 56 54.021	Toolachee Fm	2126.6	2287.8							
Plantago 1	28 16 41.050	140 56 54.021	Daralingie Fm	2287.8	2318.0							
Plantago 1	28 16 41.050	140 56 54.021	Roseneath Sh	2318.0	2409.4							
Plantago 1	28 16 41.050	140 56 54.021	Epsilon Fm	2409.4	2471.9							
Plantago 1	28 16 41.050	140 56 54.021	Murteree Sh	2471.9	2536.5							
Plantago 1	28 16 41.050	140 56 54.021	Patchawarra Fm	2536.5	2761.5							
Plotosus 1	28 31 06.0708	140 46 46.4483	Toolachee Fm	1776.1	1881.5							
Plotosus 1	28 31 06.0708	140 46 46.4483	Daralingie Fm	1881.5	1913.5							
Plotosus 1	28 31 06.0708	140 46 46.4483	Roseneath Sh	1913.5	1956.2							
Plotosus 1	28 31 06.0708	140 46 46.4483	Epsilon Fm	1956.2	2017.2							
Plotosus 1	28 31 06.0708	140 46 46.4483	Murteree Sh	2017.2	2072.0							
Plotosus 1	28 31 06.0708	140 46 46.4483	Patchawarra Fm	2072.0	2194.0							
Pogona 1	28 15 46.432	140 03 41.978	Toolachee Fm	2151.0	2206.8							
Pogona 1	28 15 46.432	140 03 41.978	Daralingie Fm	2206.8	2247.0							
Pogona 1	28 15 46.432	140 03 41.978	Roseneath Sh	2247.0	2299.7							

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
1			0	3	23.4			Benson	
2			0	3	8.4			Benson	
1			0	0				Benson	
2			3	4	49.6			Benson	
0				2	15.6		5	Wood	
0			0	3	37.2			Wood	
0			0	1	1.8			Jones, Wood	
0			0	2				Jones, Wood	
0			0	0	0			Jones, Wood	
0			0	1				Jones, Wood	
0			0	3	37.2			Jones, Wood	gas show
			1	1	7.8				
			0	1	1.8				
			0	0					
			0	0	0				
			0	0					
			0	1	12.4				
			3.5	2	15.6				
			0	2	24.8				
			1	3	23.4				
			0	1	1.8				
			0	0					
			0	2	5.6				
			0	0					
			4	4	49.6				
			0	2	15.6				
			0	0					
			0	1	2.8				
			1	0					
			2	2	24.8				
			0	2	15.6				
			0	3	5.4				
			0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Pogona 1	28 15 46.432	140 03 41.978	Epsilon Fm	2299.7	2357.0							
Pogona 1	28 15 46.432	140 03 41.978	Murteree Sh	2357.0	2408.5							
Pogona 1	28 15 46.432	140 03 41.978	Patchawarra Fm	2408.5	2539.0							
Pondrinie 1	27 33 39.990	140 40 35.670	Toolachee Fm	2239.1	2246.7	1.2	0	1	2	1	0	0
Pondrinie 1	27 33 39.990	140 40 35.670	Patchawarra Fm	2246.7	2331.7	1.22	0	0	1	1	0	0
Pondrinie 2	27 34 20.860	140 39 29.690	Toolachee Fm	2258.6	2292.7		0	0	0	0	0	0
Pondrinie 2	27 34 20.860	140 39 29.690	Patchawarra Fm	2292.7	2382.3		0	0	0	0	0	0
Pondrinie 3	27 34 42.190	140 35 36.100	No Permian									
Pondrinie 4	27 33 48.120	140 39 51.240	No Permian									
Pondrinie 5	27 33 55.406	140 39 12.308	No Permian									
Pondrinie 6	27 34 23.753	140 38 15.674	No Permian									
Pondrinie 7	27 33 26.157	140 39 41.050	No Permian									
Pondrinie 8	27 34 49.140	140 37 29.713	No Permian									
Pondrinie 9	27 33 45.469	140 39 02.453	No Permian									
Pondrinie 10	27 34 19.019	140 37 34.015	Toolachee Fm	2179.9	2201.3		0	0	0	0	0	0
Pondrinie 11	27 33 18.670	140 40 41.363	Toolachee Fm	2216.8	2229.6		0	0	0	0	0	0
Pondrinie 11	27 33 18.670	140 40 41.363	Patchawarra Fm	2229.6	2275.0	1	0	0	0	1	0	0
Pondrinie 12	27 34 08.938	140 39 27.683	Toolachee Fm	2206.8	2247.0							
Pondrinie 13	27 34 09.555	140 38 32.465	Toolachee Fm	2202.5	2225.0							
Pondrinie 14	27 34 51.450	140 37 40.240	No Permian									
Pondrinie 15	27 35 30.960	140 36 52.470	No Permian									
Pooraka 1	28 02 52.760	140 40 53.650	Toolachee Fm	2013.5	2084.2							
Pooraka 1	28 02 52.760	140 40 53.650	Epsilon Fm	2084.2	2087.9							
Pooraka 1	28 02 52.760	140 40 53.650	Murteree Sh	2087.9	2129.6							
Pooraka 1	28 02 52.760	140 40 53.650	Patchawarra Fm	2129.6	2250.6							
Pothos 1	26 50 27.169	140 40 05.057	Toolachee Fm	2463.1	2468.9							
Potiron 1	26 23 14.530	140 52 40.180	No Permian									
Quartpot 1	27 34 18.460	140 05 23.670	Toolachee Fm	2732.2	2763.6	0.8	0	0	0	0	0	0
Quartpot 1	27 34 18.460	140 05 23.670	Epsilon Fm	2763.6	2766.7		0	0	0	0	0	0
Quartpot 1	27 34 18.460	140 05 23.670	Murteree Sh	2766.7	2777.6	0.9	0	0	0	0	0	0
Quartpot 1	27 34 18.460	140 05 23.670	Patchawarra Fm	2777.6	2976.7	1	0	0	0	0	0	0
Rakoona 1	27 39 22.340	140 04 16.660	Toolachee Fm	2660.3	2712.7	0.87	1	0	0	0	0	0
Rakoona 1	27 39 22.340	140 04 16.660	Epsilon Fm	2712.7	2746.2	0.9	0	0	0	0	0	0
Rakoona 1	27 39 22.340	140 04 16.660	Murteree Sh	2746.2	2758.4		0	0	0	0	0	0
Rakoona 1	27 39 22.340	140 04 16.660	Patchawarra Fm	2758.4	3048.0	1.21	0	0	0	0	0	0
Raven 1	28 02 46.852	139 43 46.765	Toolachee Fm	2300.9	2347.6							
Raven 1	28 02 46.852	139 43 46.765	Roseneath Sh	2347.6	2364.6							
Raven 1	28 02 46.852	139 43 46.765	Epsilon Fm	2364.6	2430.8							
Raven 1	28 02 46.852	139 43 46.765	Murteree Sh	2430.8	2466.4							
Raven 1	28 02 46.852	139 43 46.765	Patchawarra Fm	2466.4	2989.2							
Reg Sprigg 1	27 14 26.727	140 57 27.267	No Permian									
Reglet 1	27 45 14.869	139 54 43.070	Toolachee Fm	2602.7	2648.1		0	2	0	0	0	0
Reglet 1	27 45 14.869	139 54 43.070	Epsilon Fm	2648.1	2698.1	0.8	0	0	0	0	0	0
Reglet 1	27 45 14.869	139 54 43.070	Murteree Sh	2698.1	2711.2		0	0	0	0	0	0
Reglet 1	27 45 14.869	139 54 43.070	Patchawarra Fm	2711.2	3049.8	1.1	0	0	0	0	0	0

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0	3	8.4				
			0	0					
			0	2	24.8				
4			0	1	7.8	2	2	Williams	
2			5	1	12.4	5	5	Williams	
0			0	2	15.6			Williams	
0			3	2	24.8			Williams	
								Marshall	
0			0	0	0			Wood	
0			0	1	7.8			Wood	
1			2	2	24.8			Wood	
			0	1	7.8				
			0	0	0				
			0	5	39				
			0	0					
			1	2	24.8				
				5	39				
0			0	3	23.4			Wood, Marshall	
0			0	0	0			Wood, Marshall	
0			0	0				Wood, Marshall	
0			0	2	24.8			Wood, Marshall	
1			1	5	39		0		
0			0	2	5.6				
0			0	0					
0			1	5	62	5	5		
			0						
			0						
			0						
			0						
			3.5						
2			0	2	15.6			Wood, Benson	
0			0	2	5.6			Wood, Benson	
0			0	0				Wood, Benson	
0			0	3	37.2			Wood, Benson	

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Regolith 1	27 47 14.540	139 48 19.870	Toolachee Fm	2445.7	2468.6		0	0	0	0	0	0
Regolith 1	27 47 14.540	139 48 19.870	Epsilon Fm	2468.6	2516.4		0	0	0	0	0	0
Regolith 1	27 47 14.540	139 48 19.870	Murteree Sh	2516.4	2525.0		0	0	0	0	0	0
Regolith 1	27 47 14.540	139 48 19.870	Patchawarra Fm	2525.0	2839.8	1.2	0	0	0	1	0	0
Rieke 1	28 24 00.351	140 27 16.896	Toolachee Fm	1790.4	1828.2							
Rieke 1	28 24 00.351	140 27 16.896	Daralingie Fm	1828.2	1856.8							
Rieke 1	28 24 00.351	140 27 16.896	Roseneath Sh	1856.8	1865.7							
Rieke 1	28 24 00.351	140 27 16.896	Epsilon Fm	1865.7	1904.4							
Rieke 1	28 24 00.351	140 27 16.896	Murteree Sh	1904.4	1963.2							
Rieke 1	28 24 00.351	140 27 16.896	Patchawarra Fm	1963.2	2128.7							
Rutherford 1	26 46 00.840	140 49 30.770	No Permian									
Scrubby Creek 1	27 33 44.650	140 23 16.076	Toolachee Fm	2768.8	2806.6	1	0	0	0	0	0	0
Scrubby Creek 1	27 33 44.650	140 23 16.076	Patchawarra Fm	2806.6	3059.0	1.1	0	0	0	0	0	0
Shiraz 1	28 13 02.555	140 02 33.467	Toolachee Fm	2244.5	2310.4							
Shiraz 1	28 13 02.555	140 02 33.467	Daralingie Fm	2310.4	2324.4							
Shiraz 1	28 13 02.555	140 02 33.467	Roseneath Sh	2324.4	2414.6							
Shiraz 1	28 13 02.555	140 02 33.467	Epsilon Fm	2414.6	2477.4							
Shiraz 1	28 13 02.555	140 02 33.467	Murteree Sh	2477.4	2536.5							
Shiraz 1	28 13 02.555	140 02 33.467	Patchawarra Fm	2536.5	2742.6							
Skeleton 2	29 54 45.000	140 00 51.000	No Permian									
Snake Hole 1	27 54 09.370	140 02 39.720	Toolachee Fm	2322.0	2396.0							
Snake Hole 1	27 54 09.370	140 02 39.720	Murteree Sh	2396.0	2413.4							
Snake Hole 1	27 54 09.370	140 02 39.720	Patchawarra Fm	2413.4	2613.4							
Spectre 1	27 41 51.280	139 59 27.170	Epsilon Fm	2721.9	2740.2	0.9						
Spectre 1	27 41 51.280	139 59 27.170	Murteree Sh	2758.4	2767.6	0.87						
Spectre 1	27 41 51.280	139 59 27.170	Patchawarra Fm	2773.7	3115.1	1.1						
Spectre 1	27 41 51.280	139 59 27.170	Toolachee Fm			1.0						
Spencer 1	28 10 01.5	139 51 48.9	Patchawarra Fm	1866.0	2002.5							
Spencer 2	28 10 46.490	139 47 46.370	No Permian									
Spencer 3	28 11 32.280	139 51 02.230	Patchawarra Fm	1825.1	1833.7	0.8	0	0	0	0	0	0
Spencer 4	28 10 33.750	139 51 37.250	Patchawarra Fm	1847.1	1866.0		0	0	0	0	0	0
Spencer 5	28 10 33.740	139 51 20.770	Patchawarra Fm	1837.0	1845.3							
Spencer 8	28 10 23.291	139 51 18.672	Patchawarra Fm	1843.1	1853.8							
Spencer 10	28 11 09.287	139 51 01.747	Patchawarra Fm	1820.3	1838.6							
Spencer 11	28 10 24.473	139 51 32.930	No Permian									
Spencer 12	28 10 30.106	139 51 10.362	No Permian									
Spencer West 1	28 10 34.930	139 47 46.310	No Permian									
Spencer West 2	28 10 38.452	139 47 43.026	No Permian									
Strathmount 1	27 58 46.350	140 59 29.890	Toolachee Fm	2412.8	2526.5	1.6	0	0	0	0	0	0
Strathmount 1	27 58 46.350	140 59 29.890	Daralingie Fm	2526.5	2594.8	1.66	0	0	0	0	0	0
Strathmount 1	27 58 46.350	140 59 29.890	Roseneath Sh	2594.8	2697.8	1.96	0	0	0	0	0	0
Strathmount 1	27 58 46.350	140 59 29.890	Epsilon Fm	2697.8	2754.5	2	0	0	0	0	0	0
Strathmount 1	27 58 46.350	140 59 29.890	Murteree Sh	2754.5	2803.9	5	0	0	0	0	0	0
Strathmount 1	27 58 46.350	140 59 29.890	Patchawarra Fm	2803.9	2676.1	2.68	0	0	0	0	0	0
Streton 1	27 14 17.799	140 50 59.218	Patchawarra Fm	2676.1	2698.1							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			0	1	7.8			Wood, Marshall	
0			0	0	0			Wood, Marshall	
0			0	0				Wood, Marshall	
1			1	2	24.8			Wood, Marshall	
			0	2	15.6				
			0	0					
			0	1	2.8				
			0	0					
			0	1	12.4				
0			0	2	15.6			Wood	
0			0	3	37.2			Wood	
			0					Wood	
			0					Wood	
			0					Wood	
			0					Wood	
			0					Wood	
			0.5					Wood	
			0	3	23.4			Wood, William	
			0	0				Wood, William	
			1	3	37.2			Wood, William	
				1	2.8		3		
				0			5		
			2	3	37.2		4		
								Paten	
0			0	1	12.4			Wood, Jones	
0			0	2	24.8			Wood	
			0	1	12.4				
			0	3	37.2				
			0	3	37.2				
0			0	2	15.6			Jones, Wood	
0			0	1	1.8			Jones, Wood	
0			0	0				Jones, Wood	
0			0	1	2.8			Jones, Wood	
0			0	0				Jones, Wood	
0			0	1	12.4			Jones, Wood	
			2	1	12.4				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Strzelecki 1	28 13 11.580	140 38 12.000	Toolachee Fm	1898.3	1961.1	1						
Strzelecki 1	28 13 11.580	140 38 12.000	Murteree Sh	1961.1	1971.4							
Strzelecki 1	28 13 11.580	140 38 12.000	Patchawarra Fm	1971.4	1860.5							
Strzelecki 2	28 17 29.530	140 35 55.070	Toolachee Fm	1860.5	1928.8							
Strzelecki 2	28 17 29.530	140 35 55.070	Murteree Sh	1928.8	1951.9							
Strzelecki 2	28 17 29.530	140 35 55.070	Patchawarra Fm	1951.9	1827.0							
Strzelecki 3	28 14 17.460	140 39 12.070	Toolachee Fm	1827.0		1						
Strzelecki 4	28 14 00.810	140 38 22.530	No Permian									
Strzelecki 5	28 14 27.250	140 38 37.150	Toolachee Fm	1825.4								
Strzelecki 7	28 13 58.930	140 38 05.890	No Permian									
Strzelecki 8	28 14 17.190	140 38 39.920	No Permian									
Strzelecki 9	28 14 23.780	140 39 00.190	No Permian									
Strzelecki 10	28 15 44.24	140 39 27.16	Toolachee Fm	1885.8	1945.2							
Strzelecki 10	28 15 44.24	140 39 27.16	Epsilon Fm	1945.2	1972.7							
Strzelecki 10	28 15 44.24	140 39 27.16	Murteree Sh	1972.7	2005.9							
Strzelecki 10	28 15 44.24	140 39 27.16	Patchawarra Fm	2005.9								
Strzelecki 11	28 13 58.680	140 38 39.490	No Permian									
Strzelecki 12	28 13 47.870	140 38 26.040	No Permian									
Strzelecki 13	28 13 58.260	140 38 57.670	No Permian									
Strzelecki 14	28 13 46.580	140 38 42.970	No Permian									
Strzelecki 15	28 15 03.600	140 39 27.730	Toolachee Fm	1852.3	1923.3							
Strzelecki 15	28 15 03.600	140 39 27.730	Murteree Sh	1923.3	1939.7							
Strzelecki 15	28 15 03.600	140 39 27.730	Patchawarra Fm	1939.7								
Strzelecki 16	28 14 28.210	140 38 01.400	Toolachee Fm	1858.1	1909.3							
Strzelecki 16	28 14 28.210	140 38 01.400	Patchawarra Fm	1909.3	1815.4							
Strzelecki 17	28 13 45.940	140 38 09.460	Toolachee Fm	1815.4								
Strzelecki 18	28 14 14.430	140 38 21.030	No Permian									
Strzelecki 19	28 14 28.310	140 39 08.600	No Permian									
Strzelecki 20	28 14 13.920	140 39 07.390	No Permian									
Strzelecki 21	28 14 26.970	140 38 50.240	No Permian									
Strzelecki 22	28 14 03.380	140 38 40.560	No Permian									
Strzelecki 23	28 14 13.900	140 38 52.450	No Permian									
Strzelecki 24	28 13 51.080	140 37 36.250	Toolachee Fm	1900.1	1967.2							
Strzelecki 24	28 13 51.080	140 37 36.250	Murteree Sh	1967.2	1996.1							
Strzelecki 24	28 13 51.080	140 37 36.250	Patchawarra Fm	1996.1								
Strzelecki 25	28 15 14.790	140 38 38.470	Toolachee Fm	1867.8	1940.4							
Strzelecki 25	28 15 14.790	140 38 38.470	Murteree Sh	1940.4	1956.2							
Strzelecki 25	28 15 14.790	140 38 38.470	Patchawarra Fm	1956.2								
Strzelecki 26	28 13 55.383	140 38 30.740	No Permian									
Strzelecki 27	28 13 53.354	140 38 17.642	No Permian									
Strzelecki 28	28 14 07.027	140 38 49.148	No Permian									
Sturt 1	28 08 25.450	139 35 25.380	Patchawarra Fm	1880.0	1925.7	0.9	0	0	0	0	0	0
Sturt 2	28 08 12.320	139 35 07.960	Patchawarra Fm	1869.0	1869.0	0.63	0	0	0	0	0	0
Sturt 3	28 08 13.570	139 35 26.230	Patchawarra Fm	1860.5	1885.8	0.8	0	0	0	0	0	0
Sturt 4	28 08 19.770	139 34 54.010	Patchawarra Fm	1880.6	1933.7	0.75	0	0	0	1	0	0

Table 2 Alginite Database

[illegible]

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Sturt 7	28 08 00.400	139 35 30.125	Patchawarra Fm	1880.0	1927.9	0.75	1	1	1	0	0	0
Sturt 8	28 08 06.873	139 34 56.056	Patchawarra Fm	1877.6	1936.7	0.8	0	1	1	0	0	0
Sturt East 1	28 08 25.890	139 36 15.750	Patchawarra Fm	1849.5	1925.7	0.9	0	0	0	0	0	0
Sturt East 2	28 08 33.340	139 36 25.380	Patchawarra Fm	1842.2	1887.3	0.8	0	0	0	0	0	0
Sturt East 3	28 08 33.340	139 36 25.380	Patchawarra Fm	1880.0	1885.8	0.8	0	0	0	0	0	0
Suta 1	27 26 17.689	140 15 03.910	Toolachee Fm	2877.9	2935.8							
Suta 1	27 26 17.689	140 15 03.910	Epsilon Fm	2935.8	2966.3							
Suta 1	27 26 17.689	140 15 03.910	Murteree Sh	2966.3	2992.5							
Suta 1	27 26 17.689	140 15 03.910	Patchawarra Fm	2992.5	3147.7							
Swan Lake 1	27 51 02.720	140 08 09.780	Toolachee Fm	2530.4	2576.8		0	0	0	0	0	0
Swan Lake 1	27 51 02.720	140 08 09.780	Epsilon Fm	2576.8	2649.3		0	0	0	0	0	0
Swan Lake 1	27 51 02.720	140 08 09.780	Murteree Sh	2649.3	2779.2		0	0	0	0	0	0
Swan Lake 1	27 51 02.720	140 08 09.780	Patchawarra Fm	2779.2	2726.7	1.4	0	0	2	0	0	0
Swan Lake 1 DW1	27 51 02.720	140 08 09.780	No Permian									
Swan Lake 2	27 50 39.937	140 08 34.077	Toolachee Fm	2545.1	2616.7							
Swan Lake 2	27 50 39.937	140 08 34.077	Epsilon Fm	2616.7	2654.8							
Swan Lake 2	27 50 39.937	140 08 34.077	Murteree Sh	2654.8	2679.8							
Swan Lake 2	27 50 39.937	140 08 34.077	Patchawarra Fm	2679.8	2982.2							
Swan Lake 3	27 50 49.250	140 07 59.330	No Permian									
Swan Lake 4	27 51 08.460	140 07 34.270	No Permian									
Tallerangie 1	27 33 51.281	140 18 00.442	Toolachee Fm	2836.5	2836.5		0	0	0	0	0	0
Tallerangie 1	27 33 51.281	140 18 00.442	Epsilon Fm	2863.6	2872.1		0	0	0	0	0	0
Tallerangie 1	27 33 51.281	140 18 00.442	Patchawarra Fm	2948.9	3071.8		0	0	0	0	0	0
Taloola 1	28 10 07.460	139 38 16.670	Patchawarra Fm	1862.0	1881.8	0.83	0	0	0	0	0	0
Taloola 2	28 09 52.090	139 38 37.190	Patchawarra Fm	1853.2	1859.3		0	0	0	0	0	0
Taloola 3	28 10 07.460	139 38 16.670	Patchawarra Fm	1861.7								
Taloola 4	28 09 59.060	139 38 25.246	Patchawarra Fm	1868.4	1886.7							
Tantanna 1	28 10 22.400	139 36 30.850	No Permian									
Tantanna 2	28 10 30.890	139 36 40.450	No Permian									
Tantanna 3	28 10 10.910	139 36 30.560	Patchawarra Fm	1816.6	1821.8							
Tantanna 4	28 10 46.250	139 37 05.950	Patchawarra Fm	1816.6	5960.0							
Tantanna 5	28 10 39.620	139 36 53.660	Patchawarra Fm									
Tantanna 6	28 10 24.740	139 36 40.910	No Permian									
Tantanna 7	28 10 37.170	139 36 54.360	Patchawarra Fm	1815.4								
Tantanna 8	28 10 16.620	139 36 24.644	No Permian									
Tantanna 9	28 10 47.274	139 37 04.679	No Permian									
Tantanna 10	28 10 44.893	139 36 57.140	No Permian									
Tantanna 11	28 10 31.600	139 36 40.140	No Permian									
Tantanna 12	28 10 30.558	139 36 56.659	Patchawarra Fm	1826.4								
Tantanna 13	28 10 14.190	139 36 38.448	No Permian									
Tarragon 1	27 08 40.263	140 21 12.643	No Permian									
Tarragon 2	27 08 38.520	140 21 47.260	No Permian									
Tarwonga 1	28 20 52.440	140 43 00.450	Toolachee Fm	1979.1	2106.8		0	0	0	0	0	0
Tarwonga 1	28 20 52.440	140 43 00.450	Daralingie Fm	2106.8	2140.3	0.9	0	0	1	0	0	0
Tarwonga 1	28 20 52.440	140 43 00.450	Roseneath Sh	2140.3	2181.1	1	0	1	0	0	0	0

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
3			3	4	49.6			Wood, Marshall	
2			1	5	62			Wood	
0			5	3	37.2			Marshall, Wood	
0			2.5	3	37.2			Marshall, Wood	
0			2	3	37.2			Marshall, Wood	
			0	3	23.4				
			0	1	2.8				
			0	0					
			0	3	37.2				
0			0	2	15.6			Jones	
0			0	1	2.8			Jones	
0			0	0				Jones	
2	1		1	5	62			Jones	
			0	3	23.4				
			0	1	2.8				
			0	0					
			0	3	37.2				
0				5	39			Wood	
0				2	5.6			Wood	
0				5	62			Wood	
0			0	2	24.8	5	5	Marshall, Wood	
0				3	37.2			Marshall, Wood	
			0.5						
			2	1	12.4				
			0	1	12.4				
			1.5						
			0.5						
0	1		5	1	7.8				
1			0	1	1.8				
1	1		0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Tarwonga 1	28 20 52.440	140 43 00.450	Epsilon Fm	2181.1	2247.9	1.2	0	0	0	0	0	0
Tarwonga 1	28 20 52.440	140 43 00.450	Murteree Sh	2247.9	2299.1	1.1	0	0	0	0	0	0
Tarwonga 1	28 20 52.440	140 43 00.450	Patchawarra Fm	2299.1	2382.9	1.1	0	0	0	0	0	0
Tarwonga 2	28 21 40.350	140 42 37.350	Toolachee Fm	1985.2	2106.2	0.9	0	0	0	1	0	0
Tarwonga 2	28 21 40.350	140 42 37.350	Daralingie Fm	2106.2	2136.0	0.95	0	0	0	0	0	0
Tarwonga 2	28 21 40.350	140 42 37.350	Roseneath Sh	2136.0	2178.7	0.95	0	2	1	0	0	0
Tarwonga 2	28 21 40.350	140 42 37.350	Epsilon Fm	2178.7	2255.2	1.1	0	1	1	0	0	0
Tarwonga 2	28 21 40.350	140 42 37.350	Murteree Sh	2255.2	2311.3		0	0	0	0	0	0
Tarwonga 2	28 21 40.350	140 42 37.350	Patchawarra Fm	2311.3	2398.8	1.2	0	1	1	1	0	0
Taylor South 1	27 33 42.310	140 28 54.080	Toolachee Fm	2645.1	2685.3	1.2	0	0	0	0	0	0
Taylor South 1	27 33 42.310	140 28 54.080	Patchawarra Fm	2685.3	2900.5	1.2	0	0	1	0	0	0
Telopea 1	27 06 51.814	140 40 27.475	No Permian									
Telopea 2	27 07 07.794	140 40 27.915	No Permian									
Terrace 1	27 12 54.700	140 21 01.100	Toolachee Fm	2773.1	2858.4							
Terrace 1	27 12 54.700	140 21 01.100	Epsilon Fm	2858.4	2901.1							
Terrace 1	27 12 54.700	140 21 01.100	Murteree Sh	2901.1	2905.4							
Terrace 1	27 12 54.700	140 21 01.100	Patchawarra Fm	2905.4	2990.7							
Thiele 1	27 37 01.380	140 23 29.400	Toolachee Fm	2466.1	2505.5							
Thiele 1	27 37 01.380	140 23 29.400	Patchawarra Fm	2505.5	2617.3							
Three Queens 1	28 00 06.870	140 46 34.920	Toolachee Fm	2250.0	2323.5	1.37	0	0	0	0	0	0
Three Queens 1	28 00 06.870	140 46 34.920	Daralingie Fm	2323.5	2397.3	1.48	0	0	0	0	0	0
Three Queens 1	28 00 06.870	140 46 34.920	Roseneath Sh	2397.3	2465.2	1.46	0	0	0	0	0	0
Three Queens 1	28 00 06.870	140 46 34.920	Epsilon Fm	2465.2	2545.7	1.57	0	0	0	0	0	0
Three Queens 1	28 00 06.870	140 46 34.920	Murteree Sh	2545.7	2610.9	1.57	0	0	0	0	0	0
Three Queens 1	28 00 06.870	140 46 34.920	Patchawarra Fm	2610.9	1950.7	2.36	0	0	0	0	0	0
Thurakinna 1	28 25 49.350	140 00 40.830	Toolachee Fm	1950.7	2011.1	0.88	0	0	0	0	0	0
Thurakinna 1	28 25 49.350	140 00 40.830	Daralingie Fm	2011.1	2050.1	0.83	0	0	0	0	0	0
Thurakinna 1	28 25 49.350	140 00 40.830	Roseneath Sh	2050.1	2102.8	0.86	0	0	0	0	1	0
Thurakinna 1	28 25 49.350	140 00 40.830	Epsilon Fm	2102.8	2171.4	0.94	0	0	0	0	0	0
Thurakinna 1	28 25 49.350	140 00 40.830	Murteree Sh	2171.4	2225.3	0.98	0	0	0	0	0	0
Thurakinna 1	28 25 49.350	140 00 40.830	Patchawarra Fm	2225.3	1958.0	1.15	0	0	0	0	0	0
Thurakinna 2	28 26 27.400	140 00 39.150	Toolachee Fm	1958.0	2023.6	0.9	1	0	0	1	0	0
Thurakinna 2	28 26 27.400	140 00 39.150	Daralingie Fm	2023.6	2060.4	1	0	1	1	0	0	0
Thurakinna 2	28 26 27.400	140 00 39.150	Roseneath Sh	2060.4	2112.9	1	0	0	1	0	0	0
Thurakinna 2	28 26 27.400	140 00 39.150	Epsilon Fm	2112.9	2183.0	1.1	0	0	1	0	0	0
Thurakinna 2	28 26 27.400	140 00 39.150	Murteree Sh	2183.0	2234.2		0	0	1	0	0	0
Thurakinna 2	28 26 27.400	140 00 39.150	Patchawarra Fm	2234.2	1963.2	1.2	0	1	1	1	0	0
Thurakinna 3	28 25 18.960	140 00 16.640	Toolachee Fm	1963.2	2023.9	0.85	0	0	0	1	0	0
Thurakinna 3	28 25 18.960	140 00 16.640	Daralingie Fm	2023.9	2062.9	0.85	0	0	0	1	0	0
Thurakinna 3	28 25 18.960	140 00 16.640	Roseneath Sh	2062.9	2122.3		0	0	0	0	0	0
Thurakinna 3	28 25 18.960	140 00 16.640	Epsilon Fm	2122.3	2186.0	0.95	0	1	0	1	0	0
Thurakinna 3	28 25 18.960	140 00 16.640	Murteree Sh	2186.0	2237.2		0	0	0	0	0	0
Thurakinna 3	28 25 18.960	140 00 16.640	Patchawarra Fm	2237.2	2544.5	1.15	0	0	0	1	0	0
Thurakinna 4	28 26 06.200	140 00 10.430	Patchawarra Fm									
Tibouchina 1	28 12 14.325	139 40 39.320	Roseneath Sh	1950.1	1967.8		0	0	0	0	0	0

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			1	1	2.8				
0			0	0					
0			2	2	24.8				
1			0	2	15.6			Jones, Wood	
0			0	2	3.6			Jones, Wood	
3			0	0				Jones, Wood	
2		1	5	1	2.8			Jones, Wood	
0			0	0				Jones, Wood	
3		1	0	2	24.8			Jones, Wood	
0			0	2	15.6			Wood, Jones	
1			0	2	24.8			Wood, Jones	
			0.5						
			0						
			0						
			0						
			0						
			0						
0			0	3	23.4			Wood	
0			0	2	3.6			Wood	
0			0	0				Wood	
0			0	1	2.8			Wood	
0			0	0				Wood	
0			0	1	12.4			Wood	
0			1.5	3	23.4	0	1	Jones, Wood	
0			0	2	3.6	0	0	Jones, Wood	
1			0	0		4	5	Jones, Wood	
0			4	2	5.6	4	4	Jones, Wood	
0			0	0		5	5	Jones, Wood	
0			4.5	5	62	5	5	Jones, Wood	
2			0	2	15.6			Jones, Wood	
3			0	1	1.8			Jones, Wood	
2			0	0				Jones, Wood	
2			3	1	2.8			Jones, Wood	
2			0	0				Jones, Wood	
3		5	1	2	24.8			Jones, Wood	
1			0	2	15.6			Jones, Marshall	
1			0	5	9			Jones, Marshall	
0			0	0				Jones, Marshall	
2			0	4	11.2			Jones, Marshall	
0			0	0				Jones, Marshall	
1			1	2	24.8			Jones, Marshall	
			4						
0			0					Wood	

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Tibouchina 1	28 12 14.325	139 40 39.320	Epsilon Fm	1967.8	1986.1	0.8	0	0	0	0	0	0
Tibouchina 1	28 12 14.325	139 40 39.320	Murteree Sh	1986.1	2004.4		0	0	0	0	0	0
Tibouchina 1	28 12 14.325	139 40 39.320	Patchawarra Fm	2004.4	2134.2	0.75	1	1	0	0	0	0
Tilcha 1	29 40 29.350	140 35 36.850	No Permian									
Tilcha 2	29 40 30.000	140 35 45.000	No Permian									
Tilparee 1A	28 30 10.479	140 38 13.801	Toolachee Fm	1771.5		0.8						
Tilparee 1A	28 30 10.479	140 38 13.801	Daralingie Fm	1813.6								
Tilparee 1A	28 30 10.479	140 38 13.801	Roseneath Sh	1874.8								
Tilparee 1A	28 30 10.479	140 38 13.801	Epsilon Fm	1903.2		0.9						
Tilparee 1A	28 30 10.479	140 38 13.801	Murteree Sh	1962.6								
Tilparee 1A	28 30 10.479	140 38 13.801	Patchawarra Fm	2014.1		1.0						
Tindilpie 2	27 54 18.310	139 55 18.380	Toolachee Fm	2544.5	2586.5		0	0	0	0	0	0
Tindilpie 2	27 54 18.310	139 55 18.380	Daralingie Fm	2586.5	2624.0		0	0	0	0	0	0
Tindilpie 2	27 54 18.310	139 55 18.380	Roseneath Sh	2624.0	2639.9		0	0	0	0	0	0
Tindilpie 2	27 54 18.310	139 55 18.380	Epsilon Fm	2639.9	2701.7		0	0	0	0	0	0
Tindilpie 2	27 54 18.310	139 55 18.380	Murteree Sh	2701.7	2731.6		0	0	0	0	0	0
Tindilpie 2	27 54 18.310	139 55 18.380	Patchawarra Fm	2731.6	2579.5		0	0	0	0	0	0
Tinga Tingana 1	29 00 45	140 05 38	Patchawarra Fm				0	0	0	0	0	0
Tirrawarra 12	27 39 56.380	140 05 46.130	Toolachee Fm	2624.0	2673.4							
Tirrawarra 12	27 39 56.380	140 05 46.130	Epsilon Fm	2673.4	2698.7							
Tirrawarra 12	27 39 56.380	140 05 46.130	Murteree Sh	2698.7	2710.9							
Tirrawarra 12	27 39 56.380	140 05 46.130	Patchawarra Fm	2710.9	3006.9							
Tirrawarra 13	27 40 02.120	140 06 12.990	Toolachee Fm	2592.0	2635.9							
Tirrawarra 13	27 40 02.120	140 06 12.990	Epsilon Fm	2635.9	2659.4							
Tirrawarra 13	27 40 02.120	140 06 12.990	Murteree Sh	2659.4	2669.1							
Tirrawarra 13	27 40 02.120	140 06 12.990	Patchawarra Fm	2669.1	2889.8							
Tirrawarra 14	27 41 04.790	140 06 41.990	Toolachee Fm	2568.5	2615.2							
Tirrawarra 14	27 41 04.790	140 06 41.990	Epsilon Fm	2615.2	2640.2							
Tirrawarra 14	27 41 04.790	140 06 41.990	Murteree Sh	2640.2	2651.2							
Tirrawarra 14	27 41 04.790	140 06 41.990	Patchawarra Fm	2651.2	2932.8							
Tirrawarra 15	27 40 27.820	140 06 37.780	Toolachee Fm	2577.1	2616.4							
Tirrawarra 15	27 40 27.820	140 06 37.780	Epsilon Fm	2616.4	2644.7							
Tirrawarra 15	27 40 27.820	140 06 37.780	Murteree Sh	2644.7	2655.4							
Tirrawarra 15	27 40 27.820	140 06 37.780	Patchawarra Fm	2655.4	2915.1							
Tirrawarra 16	27 38 38.050	140 06 45.630	Toolachee Fm	2624.0	2669.1							
Tirrawarra 16	27 38 38.050	140 06 45.630	Epsilon Fm	2669.1	2695.7							
Tirrawarra 16	27 38 38.050	140 06 45.630	Murteree Sh	2695.7	2707.2							
Tirrawarra 16	27 38 38.050	140 06 45.630	Patchawarra Fm	2707.2	2944.4							
Tirrawarra 17	27 40 10.520	140 07 47.980	Toolachee Fm	2595.1	2642.6							
Tirrawarra 17	27 40 10.520	140 07 47.980	Epsilon Fm	2642.6	2665.8							
Tirrawarra 17	27 40 10.520	140 07 47.980	Murteree Sh	2665.8	2676.1							
Tirrawarra 17	27 40 10.520	140 07 47.980	Patchawarra Fm	2676.1	2947.4							
Tirrawarra 18	27 41 05.320	140 05 00.950	Toolachee Fm	2596.0	2637.1							
Tirrawarra 18	27 41 05.320	140 05 00.950	Epsilon Fm	2637.1	2669.1							
Tirrawarra 18	27 41 05.320	140 05 00.950	Murteree Sh	2669.1	2680.4							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0		0					Wood	
0		0					Wood	
2		0.5					Wood	
0		0	4	31.2			Williams	
0		0	0	0			Williams	
0		0	0				Williams	
0		0	2	5.6			Williams	
0		0	0				Williams	
0		4	3	37.2			Williams	
0		0					Daily	
		3						
		1.5						
		4.5						
		3.5						

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Tirrawarra 18	27 41 05.320	140 05 00.950	Patchawarra Fm	2680.4	2978.5							
Tirrawarra 19	27 38 59.270	140 07 59.360	Toolachee Fm	2614.0	2654.2							
Tirrawarra 19	27 38 59.270	140 07 59.360	Epsilon Fm	2654.2	2678.0							
Tirrawarra 19	27 38 59.270	140 07 59.360	Murteree Sh	2678.0	2688.9							
Tirrawarra 19	27 38 59.270	140 07 59.360	Patchawarra Fm	2688.9	2942.8							
Tirrawarra 20	27 40 07.000	140 07 07.320	Toolachee Fm	2579.8	2624.3							
Tirrawarra 20	27 40 07.000	140 07 07.320	Epsilon Fm	2624.3	2649.9							
Tirrawarra 20	27 40 07.000	140 07 07.320	Murteree Sh	2649.9	2660.9							
Tirrawarra 20	27 40 07.000	140 07 07.320	Patchawarra Fm	2660.9	2918.2							
Tirrawarra 21	27 40 44.440	140 06 14.650	Toolachee Fm	2565.5	2625.5							
Tirrawarra 21	27 40 44.440	140 06 14.650	Epsilon Fm	2625.5	2652.4							
Tirrawarra 21	27 40 44.440	140 06 14.650	Murteree Sh	2652.4	2663.6							
Tirrawarra 21	27 40 44.440	140 06 14.650	Patchawarra Fm	2663.6	2933.1							
Tirrawarra 22	27 38 07.400	140 07 13.010	Toolachee Fm	2622.8	2659.1							
Tirrawarra 22	27 38 07.400	140 07 13.010	Epsilon Fm	2659.1	2689.6							
Tirrawarra 22	27 38 07.400	140 07 13.010	Murteree Sh	2689.6	2700.2							
Tirrawarra 22	27 38 07.400	140 07 13.010	Patchawarra Fm	2700.2	2937.4							
Tirrawarra 23	27 40 24.470	140 06 10.190	Toolachee Fm	2576.8	2614.0							
Tirrawarra 23	27 40 24.470	140 06 10.190	Epsilon Fm	2614.0	2647.2							
Tirrawarra 23	27 40 24.470	140 06 10.190	Murteree Sh	2647.2	2657.2							
Tirrawarra 23	27 40 24.470	140 06 10.190	Patchawarra Fm	2657.2	2896.8							
Tirrawarra 24	27 40 40.250	140 05 32.440	Toolachee Fm	2593.8	2639.6							
Tirrawarra 24	27 40 40.250	140 05 32.440	Epsilon Fm	2639.6	2667.3							
Tirrawarra 24	27 40 40.250	140 05 32.440	Murteree Sh	2667.3	2678.6							
Tirrawarra 24	27 40 40.250	140 05 32.440	Patchawarra Fm	2678.6	2973.0							
Tirrawarra 25	27 40 54.270	140 06 29.500	Toolachee Fm	2578.9	2623.7							
Tirrawarra 25	27 40 54.270	140 06 29.500	Epsilon Fm	2623.7	2650.5							
Tirrawarra 25	27 40 54.270	140 06 29.500	Murteree Sh	2650.5	2661.2							
Tirrawarra 25	27 40 54.270	140 06 29.500	Patchawarra Fm	2661.2	2932.8							
Tirrawarra 26	27 39 07.690	140 07 12.110	Toolachee Fm	2594.8	2657.9							
Tirrawarra 26	27 39 07.690	140 07 12.110	Epsilon Fm	2657.9	2681.0							
Tirrawarra 26	27 39 07.690	140 07 12.110	Murteree Sh	2681.0	2692.6							
Tirrawarra 26	27 39 07.690	140 07 12.110	Patchawarra Fm	2692.6	2942.8							
Tirrawarra 27	27 40 11.030	140 05 33.960	Toolachee Fm	2613.7	2661.2							
Tirrawarra 27	27 40 11.030	140 05 33.960	Epsilon Fm	2661.2	2683.8							
Tirrawarra 27	27 40 11.030	140 05 33.960	Murteree Sh	2683.8	2694.7							
Tirrawarra 27	27 40 11.030	140 05 33.960	Patchawarra Fm	2694.7	2992.5							
Tirrawarra 28	27 39 57.300	140 07 18.510	Toolachee Fm	2593.8	2639.6							
Tirrawarra 28	27 39 57.300	140 07 18.510	Epsilon Fm	2639.6	2659.7							
Tirrawarra 28	27 39 57.300	140 07 18.510	Murteree Sh	2659.7	2670.7							
Tirrawarra 28	27 39 57.300	140 07 18.510	Patchawarra Fm	2670.7	2931.3							
Tirrawarra 29	27 41 13.870	140 06 08.900	Toolachee Fm	2580.4	2627.7							
Tirrawarra 29	27 41 13.870	140 06 08.900	Epsilon Fm	2627.7	2657.9							
Tirrawarra 29	27 41 13.870	140 06 08.900	Murteree Sh	2657.9	2669.1							
Tirrawarra 29	27 41 13.870	140 06 08.900	Patchawarra Fm	2669.1	2951.4							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		3.5						
		4						
		2.5						
		1						
		4						
		2.5						
		1						

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Tirrawarra 30	27 41 23.750	140 06 46.920	Toolachee Fm	2572.8	2615.8							
Tirrawarra 30	27 41 23.750	140 06 46.920	Epsilon Fm	2615.8	2649.0							
Tirrawarra 30	27 41 23.750	140 06 46.920	Murteree Sh	2649.0	2660.9							
Tirrawarra 30	27 41 23.750	140 06 46.920	Patchawarra Fm	2660.9	2945.6							
Tirrawarra 31	27 40 42.230	140 07 50.390	Toolachee Fm	2579.5	2627.4							
Tirrawarra 31	27 40 42.230	140 07 50.390	Epsilon Fm	2627.4	2654.5							
Tirrawarra 31	27 40 42.230	140 07 50.390	Murteree Sh	2654.5	2666.4							
Tirrawarra 31	27 40 42.230	140 07 50.390	Patchawarra Fm	2666.4	2935.8							
Tirrawarra 32	27 41 31.870	140 05 08.980	Toolachee Fm	2589.0	2634.1							
Tirrawarra 32	27 41 31.870	140 05 08.980	Epsilon Fm	2634.1	2666.4							
Tirrawarra 32	27 41 31.870	140 05 08.980	Murteree Sh	2666.4	2678.6							
Tirrawarra 32	27 41 31.870	140 05 08.980	Patchawarra Fm	2678.6	2980.0							
Tirrawarra 33	27 40 53.360	140 05 42.520	Toolachee Fm	2587.8	2634.1							
Tirrawarra 33	27 40 53.360	140 05 42.520	Epsilon Fm	2634.1	2660.9							
Tirrawarra 33	27 40 53.360	140 05 42.520	Murteree Sh	2660.9	2672.5							
Tirrawarra 33	27 40 53.360	140 05 42.520	Patchawarra Fm	2672.5	2970.6							
Tirrawarra 34	27 41 09.600	140 07 33.710	Toolachee Fm	2582.6	2625.5							
Tirrawarra 34	27 41 09.600	140 07 33.710	Epsilon Fm	2625.5	2649.3							
Tirrawarra 34	27 41 09.600	140 07 33.710	Murteree Sh	2649.3	2660.9							
Tirrawarra 34	27 41 09.600	140 07 33.710	Patchawarra Fm	2660.9	2925.8							
Tirrawarra 35	27 40 11.250	140 06 50.740	Toolachee Fm	2580.7	2623.1							
Tirrawarra 35	27 40 11.250	140 06 50.740	Epsilon Fm	2623.1	2648.1							
Tirrawarra 35	27 40 11.250	140 06 50.740	Murteree Sh	2648.1	2659.4							
Tirrawarra 35	27 40 11.250	140 06 50.740	Patchawarra Fm	2659.4	2918.5							
Tirrawarra 36	27 40 39.130	140 04 50.870	Toolachee Fm	2612.7	2660.3							
Tirrawarra 36	27 40 39.130	140 04 50.870	Epsilon Fm	2660.3	2692.6							
Tirrawarra 36	27 40 39.130	140 04 50.870	Murteree Sh	2692.6	2704.2							
Tirrawarra 36	27 40 39.130	140 04 50.870	Patchawarra Fm	2704.2	3001.4							
Tirrawarra 37	27 40 28.540	140 05 18.300	Toolachee Fm	2604.2	2653.0							
Tirrawarra 37	27 40 28.540	140 05 18.300	Epsilon Fm	2653.0	2679.8							
Tirrawarra 37	27 40 28.540	140 05 18.300	Murteree Sh	2679.8	2691.4							
Tirrawarra 37	27 40 28.540	140 05 18.300	Patchawarra Fm	2691.4	2987.6							
Tirrawarra 38	27 40 23.300	140 05 47.280	Toolachee Fm	2599.0	2645.7							
Tirrawarra 38	27 40 23.300	140 05 47.280	Epsilon Fm	2645.7	2670.0							
Tirrawarra 38	27 40 23.300	140 05 47.280	Murteree Sh	2670.0	2681.6							
Tirrawarra 38	27 40 23.300	140 05 47.280	Patchawarra Fm	2681.6	2984.6							
Tirrawarra 39	27 41 43.950	140 07 00.340	Toolachee Fm	2586.2	2631.6							
Tirrawarra 39	27 41 43.950	140 07 00.340	Epsilon Fm	2631.6	2662.4							
Tirrawarra 39	27 41 43.950	140 07 00.340	Murteree Sh	2662.4	2674.9							
Tirrawarra 39	27 41 43.950	140 07 00.340	Patchawarra Fm	2674.9	2965.1							
Tirrawarra 40	27 41 13.760	140 06 28.150	Toolachee Fm	2590.8	2635.0							
Tirrawarra 40	27 41 13.760	140 06 28.150	Epsilon Fm	2635.0	2665.2							
Tirrawarra 40	27 41 13.760	140 06 28.150	Murteree Sh	2665.2	2676.4							
Tirrawarra 40	27 41 13.760	140 06 28.150	Patchawarra Fm	2676.4	2967.2							
Tirrawarra 41	27 41 05.960	140 04 39.670	Toolachee Fm	2609.4	2658.8							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		3.5						
		0	2	15.6				
		0	0	0				
		0	0					
		0	3	37.2				
		0	2	15.6				
		0	1	2.8				
		0	0					
		0.5	2	24.8				
		0						
		0						
		0						
		0.5						
		2.5						
		4.5						
		4.5						

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Tirrawarra 41	27 41 05.960	140 04 39.670	Epsilon Fm	2658.8	2693.5							
Tirrawarra 41	27 41 05.960	140 04 39.670	Murteree Sh	2693.5	2702.7							
Tirrawarra 41	27 41 05.960	140 04 39.670	Patchawarra Fm	2702.7	2994.7							
Tirrawarra 42	27 41 28.360	140 05 55.410	Toolachee Fm	2585.6	2634.7							
Tirrawarra 42	27 41 28.360	140 05 55.410	Epsilon Fm	2634.7	2667.9							
Tirrawarra 42	27 41 28.360	140 05 55.410	Murteree Sh	2667.9	2679.5							
Tirrawarra 42	27 41 28.360	140 05 55.410	Patchawarra Fm	2679.5	2989.8							
Tirrawarra 43	27 41 40.610	140 06 29.840	Toolachee Fm	2605.1	2647.8							
Tirrawarra 43	27 41 40.610	140 06 29.840	Epsilon Fm	2647.8	2677.7							
Tirrawarra 43	27 41 40.610	140 06 29.840	Murteree Sh	2677.7	2689.3							
Tirrawarra 43	27 41 40.610	140 06 29.840	Patchawarra Fm	2689.3	2991.3							
Tirrawarra 44	27 39 39.070	140 05 30.240	Toolachee Fm	2638.0	2687.4							
Tirrawarra 44	27 39 39.070	140 05 30.240	Epsilon Fm	2687.4	2713.3							
Tirrawarra 44	27 39 39.070	140 05 30.240	Murteree Sh	2713.3	2724.9							
Tirrawarra 44	27 39 39.070	140 05 30.240	Patchawarra Fm	2724.9	3027.6							
Tirrawarra 45	27 40 44.250	140 08 25.750	Toolachee Fm	2602.7	2649.3							
Tirrawarra 45	27 40 44.250	140 08 25.750	Epsilon Fm	2649.3	2678.0							
Tirrawarra 45	27 40 44.250	140 08 25.750	Murteree Sh	2678.0	2689.9							
Tirrawarra 45	27 40 44.250	140 08 25.750	Patchawarra Fm	2689.9	2975.2							
Tirrawarra 46	27 39 33.230	140 07 05.260	Toolachee Fm	2623.1	2660.9							
Tirrawarra 46	27 39 33.230	140 07 05.260	Epsilon Fm	2660.9	2681.0							
Tirrawarra 46	27 39 33.230	140 07 05.260	Murteree Sh	2681.0	2692.9							
Tirrawarra 46	27 39 33.230	140 07 05.260	Patchawarra Fm	2692.9	2951.4							
Tirrawarra 47	27 41 02.830	140 05 17.830	Toolachee Fm	2590.8	2630.7							
Tirrawarra 47	27 41 02.830	140 05 17.830	Epsilon Fm	2630.7	2662.1							
Tirrawarra 47	27 41 02.830	140 05 17.830	Murteree Sh	2662.1	2674.0							
Tirrawarra 47	27 41 02.830	140 05 17.830	Patchawarra Fm	2674.0	2978.2							
Tirrawarra 48	27 39 31.200	140 07 40.660	Toolachee Fm	2605.4	2654.8							
Tirrawarra 48	27 39 31.200	140 07 40.660	Epsilon Fm	2654.8	2676.1							
Tirrawarra 48	27 39 31.200	140 07 40.660	Murteree Sh	2676.1	2687.4							
Tirrawarra 48	27 39 31.200	140 07 40.660	Patchawarra Fm	2687.4	2942.2							
Tirrawarra 49	27 40 39.770	140 07 12.220	Toolachee Fm	2569.8	2615.2							
Tirrawarra 49	27 40 39.770	140 07 12.220	Epsilon Fm	2615.2	2640.2							
Tirrawarra 49	27 40 39.770	140 07 12.220	Murteree Sh	2640.2	2652.1							
Tirrawarra 49	27 40 39.770	140 07 12.220	Patchawarra Fm	2652.1	2916.3							
Tirrawarra 50	27 41 04.230	140 07 20.130	Toolachee Fm	2566.1	2617.6							
Tirrawarra 50	27 41 04.230	140 07 20.130	Epsilon Fm	2617.6	2637.4							
Tirrawarra 50	27 41 04.230	140 07 20.130	Murteree Sh	2637.4	2648.7							
Tirrawarra 50	27 41 04.230	140 07 20.130	Patchawarra Fm	2648.7	2913.9							
Tirrawarra 51	27 41 34.100	140 07 35.780	Toolachee Fm	2596.3	2639.6							
Tirrawarra 51	27 41 34.100	140 07 35.780	Epsilon Fm	2639.6	2672.2							
Tirrawarra 51	27 41 34.100	140 07 35.780	Murteree Sh	2672.2	2684.7							
Tirrawarra 51	27 41 34.100	140 07 35.780	Patchawarra Fm	2684.7	2965.4							
Tirrawarra 52	27 41 34.980	140 06 57.590	Toolachee Fm	2627.1	2672.2							
Tirrawarra 52	27 41 34.980	140 06 57.590	Epsilon Fm	2672.2	2702.1							

Table 2 *Alginite Database*

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			3						
			4.5						
			2						
			4.5						
			2.5						
			4.5						
			3						
			0	3	23.4				
			0	2	5.6				
			0	0					
			3.5	3	37.2				
			4.5						

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Tirrawarra 52	27 41 34.980	140 06 57.590	Murteree Sh	2702.1	2714.2							
Tirrawarra 52	27 41 34.980	140 06 57.590	Patchawarra Fm	2714.2	3009.0							
Tirrawarra 53	27 41 34.980	140 06 57.590	Toolachee Fm	2579.5	2624.3							
Tirrawarra 53	27 41 34.980	140 06 57.590	Epsilon Fm	2624.3	2653.0							
Tirrawarra 53	27 41 34.980	140 06 57.590	Murteree Sh	2653.0	2665.2							
Tirrawarra 53	27 41 34.980	140 06 57.590	Patchawarra Fm	2665.2	2950.2							
Tirrawarra 54	27 41 07.810	140 08 00.940	Toolachee Fm	2601.5	2642.6							
Tirrawarra 54	27 41 07.810	140 08 00.940	Epsilon Fm	2642.6	2669.7							
Tirrawarra 54	27 41 07.810	140 08 00.940	Murteree Sh	2669.7	2682.2							
Tirrawarra 54	27 41 07.810	140 08 00.940	Patchawarra Fm	2682.2	2963.9							
Tirrawarra 55	27 41 32.210	140 04 36.340	Toolachee Fm	2609.4	2654.5							
Tirrawarra 55	27 41 32.210	140 04 36.340	Epsilon Fm	2654.5	2688.3							
Tirrawarra 55	27 41 32.210	140 04 36.340	Murteree Sh	2688.3	2701.1							
Tirrawarra 55	27 41 32.210	140 04 36.340	Patchawarra Fm	2701.1	2994.7							
Tirrawarra 56	27 39 15.150	140 06 41.130	Toolachee Fm	2619.5	2664.0							
Tirrawarra 56	27 39 15.150	140 06 41.130	Epsilon Fm	2664.0	2687.1							
Tirrawarra 56	27 39 15.150	140 06 41.130	Murteree Sh	2687.1	2699.3							
Tirrawarra 56	27 39 15.150	140 06 41.130	Patchawarra Fm	2699.3	2948.0							
Tirrawarra 57	27 40 47.840	140 06 01.570	Toolachee Fm	2593.8	2635.6							
Tirrawarra 57	27 40 47.840	140 06 01.570	Epsilon Fm	2635.6	2661.8							
Tirrawarra 57	27 40 47.840	140 06 01.570	Murteree Sh	2661.8	2673.1							
Tirrawarra 57	27 40 47.840	140 06 01.570	Patchawarra Fm	2673.1	2944.4							
Tirrawarra 58	27 41 20.490	140 07 08.080	Toolachee Fm	2580.1	2621.9							
Tirrawarra 58	27 41 20.490	140 07 08.080	Epsilon Fm	2621.9	2649.6							
Tirrawarra 58	27 41 20.490	140 07 08.080	Murteree Sh	2649.6	2661.5							
Tirrawarra 58	27 41 20.490	140 07 08.080	Patchawarra Fm	2661.5	2941.9							
Tirrawarra 59	27 39 41.950	140 06 13.130	Toolachee Fm	2624.3	2672.2							
Tirrawarra 59	27 39 41.950	140 06 13.130	Epsilon Fm	2672.2	2694.4							
Tirrawarra 59	27 39 41.950	140 06 13.130	Murteree Sh	2694.4	2705.4							
Tirrawarra 59	27 39 41.950	140 06 13.130	Patchawarra Fm	2705.4	2983.7							
Tirrawarra 60	27 39 49.510	140 07 26.610	Toolachee Fm	2605.4	2654.8							
Tirrawarra 60	27 39 49.510	140 07 26.610	Epsilon Fm	2654.8	2676.4							
Tirrawarra 60	27 39 49.510	140 07 26.610	Murteree Sh	2676.4	2688.3							
Tirrawarra 60	27 39 49.510	140 07 26.610	Patchawarra Fm	2688.3	2949.5							
Tirrawarra 61	27 40 25.710	140 07 31.020	Toolachee Fm	2568.2	2623.4							
Tirrawarra 61	27 40 25.710	140 07 31.020	Epsilon Fm	2623.4	2645.7							
Tirrawarra 61	27 40 25.710	140 07 31.020	Murteree Sh	2645.7	2657.6							
Tirrawarra 61	27 40 25.710	140 07 31.020	Patchawarra Fm	2657.6	2917.9							
Tirrawarra 62	27 40 23.520	140 08 47.110	Toolachee Fm	2622.2	2650.8							
Tirrawarra 62	27 40 23.520	140 08 47.110	Epsilon Fm	2650.8	2683.5							
Tirrawarra 62	27 40 23.520	140 08 47.110	Murteree Sh	2683.5	2696.3							
Tirrawarra 62	27 40 23.520	140 08 47.110	Patchawarra Fm	2696.3	2963.0							
Tirrawarra 63	27 39 48.790	140 08 01.920	Toolachee Fm	2599.6	2651.2							
Tirrawarra 63	27 39 48.790	140 08 01.920	Epsilon Fm	2651.2	2676.1							
Tirrawarra 63	27 39 48.790	140 08 01.920	Murteree Sh	2676.1	2688.3							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		1						
		0.5						
		1.5						
		4						
		4						
		2						
		0.5						
		1						
		3						
		0						
		0.5						

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Tirrawarra 63	27 39 48.790	140 08 01.920	Patchawarra Fm	2688.3	2948.3							
Tirrawarra 64	27 41 40.310	140 08 02.950	Toolachee Fm	2610.9	2660.0							
Tirrawarra 64	27 41 40.310	140 08 02.950	Epsilon Fm	2660.0	2675.8							
Tirrawarra 64	27 41 40.310	140 08 02.950	Murteree Sh	2675.8	2688.9							
Tirrawarra 64	27 41 40.310	140 08 02.950	Patchawarra Fm	2688.9	2992.5							
Tirrawarra 65	27 40 39.790	140 05 22.430	Toolachee Fm	2596.9	2642.6							
Tirrawarra 65	27 40 39.790	140 05 22.430	Epsilon Fm	2642.6	2671.0							
Tirrawarra 65	27 40 39.790	140 05 22.430	Murteree Sh	2671.0	2682.2							
Tirrawarra 65	27 40 39.790	140 05 22.430	Patchawarra Fm	2682.2	2980.9							
Tirrawarra 66	27 39 09.930	140 07 37.849	Toolachee Fm	2614.9	2656.6							
Tirrawarra 66	27 39 09.930	140 07 37.849	Epsilon Fm	2656.6	2678.0							
Tirrawarra 66	27 39 09.930	140 07 37.849	Murteree Sh	2678.0	2689.9							
Tirrawarra 66	27 39 09.930	140 07 37.849	Patchawarra Fm	2689.9	2934.0							
Tirrawarra 67	27 41 59.858	140 06 48.041	Toolachee Fm	2598.1	2643.2							
Tirrawarra 67	27 41 59.858	140 06 48.041	Epsilon Fm	2643.2	2675.2							
Tirrawarra 67	27 41 59.858	140 06 48.041	Murteree Sh	2675.2	2688.6							
Tirrawarra 67	27 41 59.858	140 06 48.041	Patchawarra Fm	2688.6	2994.4							
Tirrawarra 68	27 38 59.747	140 08 23.172	Toolachee Fm	2606.0	2651.8							
Tirrawarra 68	27 38 59.747	140 08 23.172	Epsilon Fm	2651.8	2684.1							
Tirrawarra 68	27 38 59.747	140 08 23.172	Murteree Sh	2684.1	2696.3							
Tirrawarra 68	27 38 59.747	140 08 23.172	Patchawarra Fm	2696.3	2948.3							
Tirrawarra 69	27 40 46.825	140 04 30.791	Toolachee Fm	2626.5	2678.3							
Tirrawarra 69	27 40 46.825	140 04 30.791	Epsilon Fm	2678.3	2712.1							
Tirrawarra 69	27 40 46.825	140 04 30.791	Murteree Sh	2712.1	2723.7							
Tirrawarra 69	27 40 46.825	140 04 30.791	Patchawarra Fm	2723.7	3036.4							
Tirrawarra 69	27 40 46.825	140 04 30.791	Patchawarra Fm									
Tirrawarra 70	27 38 11.205	140 06 37.916	Toolachee Fm	2626.8	2658.5							
Tirrawarra 70	27 38 11.205	140 06 37.916	Epsilon Fm	2673.7	2684.1							
Tirrawarra 70	27 38 11.205	140 06 37.916	Patchawarra Fm	2708.5	2943.1							
Tirrawarra North 1	27 38 08.500	140 06 05.540	Toolachee Fm	2682.2	2734.7	1.1	0	0	0	0	0	0
Tirrawarra North 1	27 38 08.500	140 06 05.540	Epsilon Fm	2734.7	2760.9	1.2	0	0	0	0	0	0
Tirrawarra North 1	27 38 08.500	140 06 05.540	Murteree Sh	2760.9	2773.4		0	1	1	0	0	0
Tirrawarra North 1	27 38 08.500	140 06 05.540	Patchawarra Fm	2773.4	3056.2	1.3	0	0	0	0	0	0
Tirrawarra West 1	27 39 57.000	140 05 10.490	Toolachee Fm	2634.4	2679.8							
Tirrawarra West 1	27 39 57.000	140 05 10.490	Epsilon Fm	2679.8	2700.5							
Tirrawarra West 1	27 39 57.000	140 05 10.490	Murteree Sh	2700.5	2712.1							
Tirrawarra West 1	27 39 57.000	140 05 10.490	Patchawarra Fm	2712.1	3016.6							
Titan 1	27 22 52.640	139 46 08.200	No Permian									
Toolachee 1	28 25 59.370	140 46 39.830	Toolachee Fm	1791.0	1902.0							
Toolachee 1	28 25 59.370	140 46 39.830	Daralingie Fm	1902.0	1933.0							
Toolachee 1	28 25 59.370	140 46 39.830	Roseneath Sh	1933.0	1963.8							
Toolachee 1	28 25 59.370	140 46 39.830	Epsilon Fm	1963.8	2033.0							
Toolachee 1	28 25 59.370	140 46 39.830	Murteree Sh	2033.0	2082.4							
Toolachee 1	28 25 59.370	140 46 39.830	Patchawarra Fm	2082.4		1						
Toolachee 2	28 18 50.320	140 49 20.980	Toolachee Fm	1841.9	1955.0							

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
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		0.5						
			4	31.2				
			0	0				
			4	49.6				
0	0							
0	0							
2	0							
0	1							
	0		2	15.6				
	0		2	5.6				
	0		0					
	5		3	37.2				

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Toolachee 2	28 18 50.320	140 49 20.980	Daralingie Fm	1955.0	1984.6							
Toolachee 2	28 18 50.320	140 49 20.980	Roseneath Sh	1984.6	2025.7							
Toolachee 2	28 18 50.320	140 49 20.980	Epsilon Fm	2025.7	2072.6							
Toolachee 2	28 18 50.320	140 49 20.980	Murteree Sh	2072.6	2115.6							
Toolachee 2	28 18 50.320	140 49 20.980	Patchawarra Fm	2115.6								
Toolachee 3	28 27 52.330	140 46 33.200	Toolachee Fm	1839.8	1973.6							
Toolachee 3	28 27 52.330	140 46 33.200	Daralingie Fm	1973.6	2009.9							
Toolachee 3	28 27 52.330	140 46 33.200	Roseneath Sh	2009.9	2055.6							
Toolachee 3	28 27 52.330	140 46 33.200	Epsilon Fm	2055.6	2123.2							
Toolachee 3	28 27 52.330	140 46 33.200	Murteree Sh	2123.2	2183.9							
Toolachee 3	28 27 52.330	140 46 33.200	Patchawarra Fm	2183.9								
Toolachee 4	28 22 08.720	140 48 33.340	Toolachee Fm	1862.0	1980.0							
Toolachee 4	28 22 08.720	140 48 33.340	Daralingie Fm	1980.0	2014.7							
Toolachee 4	28 22 08.720	140 48 33.340	Roseneath Sh	2014.7	2056.2							
Toolachee 4	28 22 08.720	140 48 33.340	Epsilon Fm	2056.2	2119.3							
Toolachee 4	28 22 08.720	140 48 33.340	Murteree Sh	2119.3	2166.5							
Toolachee 4	28 22 08.720	140 48 33.340	Patchawarra Fm	2166.5								
Toolachee 5	28 21 14.620	140 45 42.720	Toolachee Fm	1902.6	2015.9							
Toolachee 5	28 21 14.620	140 45 42.720	Daralingie Fm	2015.9	2051.0							
Toolachee 5	28 21 14.620	140 45 42.720	Roseneath Sh	2051.0	2082.1							
Toolachee 5	28 21 14.620	140 45 42.720	Epsilon Fm	2082.1	2150.4							
Toolachee 5	28 21 14.620	140 45 42.720	Murteree Sh	2150.4	2202.2							
Toolachee 5	28 21 14.620	140 45 42.720	Patchawarra Fm	2202.2								
Toolachee 6	28 24 18.670	140 49 44.240	Toolachee Fm	1865.4	2006.5							
Toolachee 6	28 24 18.670	140 49 44.240	Daralingie Fm	2006.5	2044.0							
Toolachee 6	28 24 18.670	140 49 44.240	Roseneath Sh	2044.0	2094.9							
Toolachee 6	28 24 18.670	140 49 44.240	Epsilon Fm	2094.9	2164.1							
Toolachee 6	28 24 18.670	140 49 44.240	Murteree Sh	2164.1	2226.3							
Toolachee 6	28 24 18.670	140 49 44.240	Patchawarra Fm	2226.3								
Toolachee 7	28 27 43.260	140 48 45.930	Toolachee Fm	1854.1	1990.3							
Toolachee 7	28 27 43.260	140 48 45.930	Daralingie Fm	1990.3	2034.5							
Toolachee 7	28 27 43.260	140 48 45.930	Roseneath Sh	2034.5	2089.7							
Toolachee 7	28 27 43.260	140 48 45.930	Epsilon Fm	2089.7	2161.3							
Toolachee 7	28 27 43.260	140 48 45.930	Murteree Sh	2161.3	2218.3							
Toolachee 7	28 27 43.260	140 48 45.930	Patchawarra Fm	2218.3								
Toolachee 8	28 23 42.890	140 47 50.530	Toolachee Fm	1874.5	2001.0							
Toolachee 8	28 23 42.890	140 47 50.530	Daralingie Fm	2001.0	2042.5							
Toolachee 8	28 23 42.890	140 47 50.530	Roseneath Sh	2042.5	2084.8							
Toolachee 8	28 23 42.890	140 47 50.530	Epsilon Fm	2084.8	2161.6							
Toolachee 8	28 23 42.890	140 47 50.530	Murteree Sh	2161.6	2218.9							
Toolachee 8	28 23 42.890	140 47 50.530	Patchawarra Fm	2218.9								
Toolachee 9	28 21 50.340	140 50 39.830	Toolachee Fm	1867.5	2012.0	1.2						
Toolachee 9	28 21 50.340	140 50 39.830	Daralingie Fm	2012.0	2044.6	1.2						
Toolachee 9	28 21 50.340	140 50 39.830	Roseneath Sh	2044.6	2110.1	1.1						
Toolachee 9	28 21 50.340	140 50 39.830	Epsilon Fm	2110.1	2153.1	1.3						

Table 2 Alginite Database

Species Abundance Alginite Live Oil Coal Coal m Inertinite% DOM Source Comments

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Toolachee 9	28 21 50.340	140 50 39.830	Murteree Sh	2153.1	2206.4	1.4						
Toolachee 9	28 21 50.340	140 50 39.830	Patchawarra Fm	2206.4								
Toolachee 10	28 26 28.890	140 48 15.270	Toolachee Fm	1838.6	1973.6							
Toolachee 10	28 26 28.890	140 48 15.270	Daralingie Fm	1973.6	2009.9							
Toolachee 10	28 26 28.890	140 48 15.270	Roseneath Sh	2009.9	2058.0							
Toolachee 10	28 26 28.890	140 48 15.270	Epsilon Fm	2058.0	2123.5							
Toolachee 10	28 26 28.890	140 48 15.270	Murteree Sh	2123.5	2183.0							
Toolachee 10	28 26 28.890	140 48 15.270	Patchawarra Fm	2183.0	2278.1							
Toolachee 11	28 23 36.970	140 49 10.260	Toolachee Fm	1856.8	1988.8							
Toolachee 11	28 23 36.970	140 49 10.260	Daralingie Fm	1988.8	2031.8							
Toolachee 11	28 23 36.970	140 49 10.260	Roseneath Sh	2031.8	2069.6							
Toolachee 11	28 23 36.970	140 49 10.260	Epsilon Fm	2069.6	2135.4							
Toolachee 11	28 23 36.970	140 49 10.260	Murteree Sh	2135.4	2193.3							
Toolachee 11	28 23 36.970	140 49 10.260	Patchawarra Fm	2193.3	2293.9							
Toolachee 14	28 23 47.410	140 46 54.820	No Permian									
Toolachee 15	28 26 37.840	140 46 18.970	Toolachee Fm	1833.1	1956.2							
Toolachee 16	28 24 59.560	140 46 57.500	Toolachee Fm	1798.0	1905.6							
Toolachee 16	28 24 59.560	140 46 57.500	Daralingie Fm	1905.6	1925.1							
Toolachee 16	28 24 59.560	140 46 57.500	Roseneath Sh	1925.1	1977.8							
Toolachee 16	28 24 59.560	140 46 57.500	Epsilon Fm	1977.8	2031.2							
Toolachee 16	28 24 59.560	140 46 57.500	Murteree Sh	2031.2	2079.7							
Toolachee 16	28 24 59.560	140 46 57.500	Patchawarra Fm	2079.7	2111.3							
Toolachee 19	28 25 46.020	140 49 34.280	Epsilon Fm	2101.6	2170.2							
Toolachee 22	28 17 52.590	140 49 33.980	No Permian									
Toolachee 30	28 26 59.080	140 49 38.680	Epsilon Fm	2103.4	2191.8							
Toolachee 30	28 26 59.080	140 49 38.680	Patchawarra Fm	2230.5								
Toolachee 34	28 24 28.520	140 47 41.420	Toolachee Fm	1844.6	1969.0							
Toolachee 34	28 24 28.520	140 47 41.420	Daralingie Fm	1969.0	2007.1							
Toolachee 34	28 24 28.520	140 47 41.420	Roseneath Sh	2007.1	2045.2							
Toolachee 34	28 24 28.520	140 47 41.420	Epsilon Fm	2045.2	2118.4							
Toolachee 34	28 24 28.520	140 47 41.420	Murteree Sh	2118.4	2173.2							
Toolachee 34	28 24 28.520	140 47 41.420	Patchawarra Fm	2173.2	2272.6							
Toolachee 37	28 18 42.310	140 50 00.610	Daralingie Fm	1995.2	2043.4							
Toolachee 39	28 25 40.080	140 50 51.140	Epsilon Fm	2148.5	2225							
Toolachee 39	28 25 40.080	140 50 51.140	Patchawarra Fm	2288.4								
Toolachee 46	28 22 53.139	140 45 58.005	Toolachee Fm	1866.9	1988.5							
Toolachee 51	28 23 31.772	140 47 28.463	Toolachee Fm	1830.3	1961.1							
Toolachee 51	28 23 31.772	140 47 28.463	Roseneath Sh	1961.1	2012.3							
Toolachee 51	28 23 31.772	140 47 28.463	Epsilon Fm	2012.3	2067.2							
Toolachee 51	28 23 31.772	140 47 28.463	Murteree Sh	2067.2	2114.4							
Toolachee 51	28 23 31.772	140 47 28.463	Patchawarra Fm	2114.4	2164.9944							
Toolachee East 2	28 21 46.620	140 51 14.440	Toolachee Fm	1915.1	2070.8		0	0	0	0	0	0
Toolachee East 2	28 21 46.620	140 51 14.440	Daralingie Fm	2070.8	2112.3		0	1	1	0	0	0
Toolachee East 2	28 21 46.620	140 51 14.440	Roseneath Sh	2112.3	2163.8		0	0	0	0	0	0
Toolachee East 2	28 21 46.620	140 51 14.440	Epsilon Fm	2163.8	2236.0		0	0	0	0	0	0

Table 2 Alginite Database

Species Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
		0	3	23.4				
		0	0	0				
		0	0					
		0	0	0				
		0	0					
		0	1	12.4				
		0	4	31.2				
		0	0	0				
		0	0					
		0	1	2.8				
		0	0					
		0	3	37.2				
		1						
		0	2	15.6			Marshall	
		0	0	0			Marshall	
		0	0				Marshall	
		0	2	5.6			Marshall	
		0	0				Marshall	
		0	1	12.4			Marshall	
		0.5						
		0.5						
		1						
		0						
		0						
		0						
		1						
		0						
		0						
		0.5						
		0.5						
		0.5						
		1						
		0						
		0						
		0						
		0						
0		0	2	15.6			Wood	
2		0	1	1.8			Wood	
0		0	0				Wood	
0		0	2	5.6			Wood	

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Toolachee East 2	28 21 46.620	140 51 14.440	Murteree Sh	2236.0	2293.6		0	0	0	0	0	0
Toolachee East 2	28 21 46.620	140 51 14.440	Patchawarra Fm	2293.6	2514.0		0	0	0	0	0	0
Toonman 1	27 31 08.010	140 08 52.250	Toolachee Fm	2829.8	2865.4		0	0	0	0	0	0
Toonman 1	27 31 08.010	140 08 52.250	Epsilon Fm	2865.4	2903.5		0	0	1	0	0	0
Toonman 1	27 31 08.010	140 08 52.250	Murteree Sh	2903.5	2912.4		0	0	1	0	0	0
Toonman 1	27 31 08.010	140 08 52.250	Patchawarra Fm	2912.4	3054.1		0	0	0	0	0	0
Touriga 1	28 28 32.410	140 04 00.850	Toolachee Fm	1892.2	1951.6							
Touriga 1	28 28 32.410	140 04 00.850	Daralingie Fm	1951.6	1968.4							
Touriga 1	28 28 32.410	140 04 00.850	Roseneath Sh	1968.4	2033.0							
Touriga 1	28 28 32.410	140 04 00.850	Epsilon Fm	2033.0	2089.1							
Touriga 1	28 28 32.410	140 04 00.850	Murteree Sh	2089.1	2141.8							
Touriga 1	28 28 32.410	140 04 00.850	Patchawarra Fm	2141.8	2337.816							
Trebbiano 1	28 31 30.010	140 06 12.360	Toolachee Fm	1791.0	1883.1							
Trebbiano 1	28 31 30.010	140 06 12.360	Daralingie Fm	1883.1	1897.7							
Trebbiano 1	28 31 30.010	140 06 12.360	Roseneath Sh	1897.7	1945.8							
Trebbiano 1	28 31 30.010	140 06 12.360	Epsilon Fm	1945.8	2000.1							
Trebbiano 1	28 31 30.010	140 06 12.360	Murteree Sh	2000.1	2053.7							
Trebbiano 1	28 31 30.010	140 06 12.360	Patchawarra Fm	2053.7	2418.8928							
Turban 1	27 25 58.690	140 55 14.870	Toolachee Fm	2261.6	2269.2							
Turban 1	27 25 58.690	140 55 14.870	Patchawarra Fm	2274.4	2322.0							
Turban 1	27 25 58.690	140 55 14.870	Patchawarra Fm	2274.4	2322.0							
Ulandi 1	28 32 42.810	140 19 04.050	No Permian									
Ulandi 2	28 32 08.720	140 18 29.410	No Permian									
Ulandi 3	28 32 57.020	140 18 33.480	No Permian									
Ulandi 4	28 33 44.286	140 19 46.735	No Permian									
Ulandi 5	28 32 23.971	140 18 45.024	No Permian									
Ungari 1	27 43 54.150	140 01 51.280	Toolachee Fm	1644.7	1683.7							
Ungari 1	27 43 54.150	140 01 51.280	Daralingie Fm	1683.7	1696.5	0.7						
Ungari 1	27 43 54.150	140 01 51.280	Roseneath Sh	1696.5	1724.3							
Ungari 1	27 43 54.150	140 01 51.280	Epsilon Fm	1724.3	1792.8	0.74						
Ungari 1	27 43 54.150	140 01 51.280	Murteree Sh	1792.8	1839.2							
Ungari 1	27 43 54.150	140 01 51.280	Patchawarra Fm	1839.2	1856.2	0.9	4	0	0	0	0	0
Varanus 1	27 43 54.150	140 01 51.280	Toolachee Fm	2610.6	2654.5		0	0	0	0	0	0
Varanus 1	27 43 54.150	140 01 51.280	Epsilon Fm	2654.5	2708.8		0	0	0	0	0	0
Varanus 1	27 43 54.150	140 01 51.280	Murteree Sh	2708.8	2722.2		0	0	0	0	0	0
Varanus 1	27 43 54.150	140 01 51.280	Patchawarra Fm	2722.2	3074.2		0	0	0	0	0	0
Vatore 1	27 55 26.640	139 53 43.579	Toolachee Fm	2532.3	2606.0							
Vatore 1	27 55 26.640	139 53 43.579	Daralingie Fm	2606.0	2618.2							
Vatore 1	27 55 26.640	139 53 43.579	Roseneath Sh	2618.2	2634.1							
Vatore 1	27 55 26.640	139 53 43.579	Epsilon Fm	2634.1	2706.3							
Vatore 1	27 55 26.640	139 53 43.579	Murteree Sh	2706.3	2740.8							
Vatore 1	27 55 26.640	139 53 43.579	Patchawarra Fm	2740.8	2828.5							
Vatore East 1	27 55 51.287	139 55 34.934	Toolachee Fm	2537.8	2623.1							
Vatore East 1	27 55 51.287	139 55 34.934	Daralingie Fm	2623.1	2628.0							
Vatore East 1	27 55 51.287	139 55 34.934	Roseneath Sh	2628.0	2645.7							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			0	0				Wood	
0			0	2	24.8			Wood	
0			0					Williams	
1			0					Williams	
1			0					Williams	
0			1					Williams	
			0						
			0						
			0						
			0						
			0						
			0						
			0						
			0						
			0						
			0						
			0.5						
				3	23.4				
			0.5	2	24.8				
				2	24.8				
							4		
4		4	4	1	12.4		5		
0				3	23.4			Wood	
0								Wood	
0								Wood	
0				5	62			Wood	
			0	2	15.6				
			0	2	3.6				
			0	0					
			1	2	5.6				
			0	0					
			1.5	3	37.2				
			0						
			0						
			0						

Table 2 *Alginite Database*

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Vatore East 1	27 55 51.287	139 55 34.934	Epsilon Fm	2645.7	2719.4							
Vatore East 1	27 55 51.287	139 55 34.934	Murteree Sh	2719.4	2751.7							
Vatore East 1	27 55 51.287	139 55 34.934	Patchawarra Fm	2751.7	3212.6							
Verbena 1	28 20 44.425	140 51 38.528	Toolachee Fm	1930.3	2083.0	0.9	0	0	0	0	0	0
Verbena 1	28 20 44.425	140 51 38.528	Daralingie Fm	2083.0	2102.2	1	0	0	0	0	0	0
Verbena 1	28 20 44.425	140 51 38.528	Roseneath Sh	2102.2	2154.9	1	0	0	0	0	0	0
Verbena 1	28 20 44.425	140 51 38.528	Epsilon Fm	2154.9	2234.2		0	0	0	0	0	0
Verbena 1	28 20 44.425	140 51 38.528	Murteree Sh	2234.2	2288.7	1	0	0	0	0	0	0
Verbena 1	28 20 44.425	140 51 38.528	Patchawarra Fm	2288.7	2498.8	1.2	0	0	0	0	0	0
Verdelho 1	28 26 36.419	139 59 16.713	Toolachee Fm	1955.0	2009.5							
Verdelho 1	28 26 36.419	139 59 16.713	Daralingie Fm	2009.5	2042.2							
Verdelho 1	28 26 36.419	139 59 16.713	Roseneath Sh	2042.2	2102.2							
Verdelho 1	28 26 36.419	139 59 16.713	Epsilon Fm	2102.2	2172.0							
Verdelho 1	28 26 36.419	139 59 16.713	Murteree Sh	2172.0	2230.5							
Verdelho 1	28 26 36.419	139 59 16.713	Patchawarra Fm	2230.5	2406.1		0	1	1	0	0	0
Verona 1	27 12 49.320	140 27 05.060	Toolachee Fm	2824.3	2878.5	0.9	0	0	0	0	0	0
Verona 1	27 12 49.320	140 27 05.060	Epsilon Fm	2878.5	2949.5	0.9	0	0	0	0	0	0
Verona 1	27 12 49.320	140 27 05.060	Murteree Sh	2949.5	2954.7		0	0	0	0	0	0
Verona 1	27 12 49.320	140 27 05.060	Patchawarra Fm	2954.7	3041.9	1.1	0	0	0	0	0	0
Walkillie 1	27 08 09.400	140 40 10.620	No Permian									
Wanara 1	28 16 41.180	140 35 40.230	Toolachee Fm	1834.9	1897.7		0	0	0	0	0	0
Wanara 1	28 16 41.180	140 35 40.230	Patchawarra Fm	1897.7	2050.1		0	0	0	0	0	0
Wancoocha 2	28 32 34.490	139 59 21.160	Epsilon Fm	1672.7	1686.2		0	0	1	0	0	0
Wancoocha 2	28 32 34.490	139 59 21.160	Murteree Sh	1686.2	1704.1		0	0	0	0	0	0
Wancoocha 2	28 32 34.490	139 59 21.160	Patchawarra Fm	1704.1	1750.2		0	1	0	0	0	0
Wancoocha 3	28 32 47.210	139 58 47.090	Epsilon Fm	1683.7	1706.3							
Wancoocha 3	28 32 47.210	139 58 47.090	Murteree Sh	1706.3	1728.2							
Wancoocha 3	28 32 47.210	139 58 47.090	Patchawarra Fm	1728.2								
Wancoocha 4	28 32 21.320	139 59 28.290	Epsilon Fm	1680.7	1705.1							
Wancoocha 4	28 32 21.320	139 59 28.290	Murteree Sh	1705.1	1723.9							
Wancoocha 4	28 32 21.320	139 59 28.290	Patchawarra Fm	1723.9								
Wancoocha 5	28 32 40.800	139 59 04.210	Epsilon Fm	1684.0	1705.1							
Wancoocha 5	28 32 40.800	139 59 04.210	Murteree Sh	1705.1	1723.9							
Wancoocha 5	28 32 40.800	139 59 04.210	Patchawarra Fm	1723.9								
Wancoocha 6	28 32 30.730	139 59 35.190	Epsilon Fm	1679.4	1707.5							
Wancoocha 6	28 32 30.730	139 59 35.190	Murteree Sh	1707.5	1737.4							
Wancoocha 6	28 32 30.730	139 59 35.190	Patchawarra Fm	1737.4								
Wancoocha 7	28 32 10.300	139 59 35.940	Epsilon Fm	1684.3	1713.0							
Wancoocha 7	28 32 10.300	139 59 35.940	Murteree Sh	1713.0	1741.3							
Wancoocha 7	28 32 10.300	139 59 35.940	Patchawarra Fm	1741.3								
Wantana 1	27 37 58.560	140 25 25.560	Toolachee Fm	2521.9	2551.8	1.17	0	0	0	0	0	0
Wantana 1	27 37 58.560	140 25 25.560	Patchawarra Fm	2551.8	2753.0	1.36	0	0	0	0	0	0
Wantana 2	27 38 12.223	140 26 07.922	Patchawarra Fm	2555.4	2508.2		0	0	0	0	0	0
Warki 1	28 25 32.860	139 52 41.650	Toolachee Fm	1800.1	1834.9							
Warki 1	28 25 32.860	139 52 41.650	Daralingie Fm	1834.9	1851.1							

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			0						
			0						
			0						
0			0	1	7.8			Wood	
0			0	2	3.6			Wood	
0			0	0				Wood	
0			0	1	2.8			Wood	
0			0	0				Wood	
0			0	2	24.8			Wood	
			0	2	15.6			Wood	
			0	1	1.8			Wood	
			0	0				Wood	
			0	1	2.8			Wood	
			0	0				Wood	
2		5	0.5	2	24.8			Wood	
0			4	2	15.6			Wood	
0			4	1	2.8			Wood	
0			0	0				Wood	
0			1	1	12.4			Wood	
0			3.5	1	7.8			Williams	
0			3.5	1	12.4			Williams	
1			0	3	8.4			Williams	
0			0	0				Williams	
1			3.5	1	12.4			Williams	
			4.5						
			4.5						
			4.5						
			0.5						
			4.5						
1			0	3	23.4	1	1	Pickering	
0			0	2	24.8	5	5	Pickering	
0			0	5	62				
				2	15.6				
				3	5.4				

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Warki 1	28 25 32.860	139 52 41.650	Epsilon Fm	1897.1	1949.5							
Warki 1	28 25 32.860	139 52 41.650	Patchawarra Fm	1990.3	2070.8							
Waukatanna 1	28 22 01.660	140 04 35.590	Toolachee Fm	2103.7	2172.0	1	0	0	0	0	0	0
Waukatanna 1	28 22 01.660	140 04 35.590	Daralingie Fm	2172.0	2247.0	1.1	0	1	0	0	0	0
Waukatanna 1	28 22 01.660	140 04 35.590	Roseneath Sh	2247.0	2306.7	1.3	0	0	1	0	0	0
Waukatanna 1	28 22 01.660	140 04 35.590	Epsilon Fm	2306.7	2380.5	1.3	0	0	0	0	0	0
Waukatanna 1	28 22 01.660	140 04 35.590	Murteree Sh	2380.5	2438.1	1.4	0	0	1	0	0	0
Waukatanna 1	28 22 01.660	140 04 35.590	Patchawarra Fm	2438.1	2594.5	1.5	0	0	1	0	0	0
Weena 1	29 05 38	139 50 51	Patchawarra Fm	1279.6			0	0	0	0	0	0
Welcome Lake 1	27 47 46.700	139 45 45.170	Toolachee Fm	2420.7	2440.2	1.02						
Welcome Lake 1	27 47 46.700	139 45 45.170	Epsilon Fm	2440.2	2482.3	0.93						
Welcome Lake 1	27 47 46.700	139 45 45.170	Murteree Sh	2482.3	2490.2	0.9						
Welcome Lake 1	27 47 46.700	139 45 45.170	Patchawarra Fm	2490.2	2806.6	1.25						
Welcome Lake East 1	27 47 38.989	139 46 31.146	Toolachee Fm	2443.9	2467.1							
Welcome Lake East 1	27 47 38.989	139 46 31.146	Epsilon Fm	2467.1	2497.5							
Welcome Lake East 1	27 47 38.989	139 46 31.146	Murteree Sh	2497.5	2512.2							
Welcome Lake East 1	27 47 38.989	139 46 31.146	Patchawarra Fm	2512.2	2829.5							
Wilpinnie 2	28 02 58.750	140 45 47.440	Toolachee Fm	1978.8	2042.2	1.4	0	0	0	0	0	0
Wilpinnie 2	28 02 58.750	140 45 47.440	Murteree Sh	2042.2	2061.1		0	0	0	0	0	0
Wilpinnie 2	28 02 58.750	140 45 47.440	Patchawarra Fm	2061.1	2191.2	1.3	0	0	0	0	0	0
Wimma 1	27 21 10.040	140 33 08.360	Toolachee Fm	3168.7	3229.1	0.81	1	0	0	0	0	0
Wimma 1	27 21 10.040	140 33 08.360	Epsilon Fm	3229.1	3288.2							
Wimma 1	27 21 10.040	140 33 08.360	Murteree Sh	3288.2	3310.1							
Wimma 1	27 21 10.040	140 33 08.360	Patchawarra Fm	3310.1	3614.6							
Wirha 1	28 32 27.690	140 49 02.360	Toolachee Fm	1629.2	1700.8	0.68	0	0	0	0	1	0
Wirha 1	28 32 27.690	140 49 02.360	Daralingie Fm	1716.0	1716.0		0	0	0	0	0	0
Wirha 1	28 32 27.690	140 49 02.360	Epsilon Fm	1740.4	1820.0	0.74	0	0	0	0	5	0
Wirha 1	28 32 27.690	140 49 02.360	Roseneath Sh	1740.4	1740.4	0.63	0	0	0	0	1	0
Wirha 1	28 32 27.690	140 49 02.360	Murteree Sh	1755.6	1831.8	0.76	0	0	0	0	1	0
Wirha 1	28 32 27.690	140 49 02.360	Patchawarra Fm	1831.8	1884.3	0.78	0	0	0	0	1	0
Wirrarie 2	28 14 39.556	139 54 09.101	Toolachee Fm	1919.3	1946.8	0.8	0	0	0	0	0	0
Wirrarie 2	28 14 39.556	139 54 09.101	Daralingie Fm	1946.8	1956.8	0.85	0	0	0	0	0	0
Wirrarie 2	28 14 39.556	139 54 09.101	Roseneath Sh	1956.8	1995.2	0.85	0	1	0	0	0	0
Wirrarie 2	28 14 39.556	139 54 09.101	Epsilon Fm	1995.2	2013.5	0.9	0	1	0	0	0	0
Wirrarie 2	28 14 39.556	139 54 09.101	Murteree Sh	2013.5	2043.4		0	0	0	0	0	0
Wirrarie 2	28 14 39.556	139 54 09.101	Patchawarra Fm	2043.4	2100.7	0.9	0	1	0	0	0	0
Wirrarie North 1	28 14 01.190	139 54 02.442	Toolachee Fm	1919.9	1947.4	0.8	0	0	0	2	0	0
Wirrarie North 1	28 14 01.190	139 54 02.442	Daralingie Fm	1947.4	1953.2	0.8	0	0	1	0	0	0
Wirrarie North 1	28 14 01.190	139 54 02.442	Roseneath Sh	1953.2	1987.3		0	0	0	0	0	0
Wirrarie North 1	28 14 01.190	139 54 02.442	Epsilon Fm	1987.3	2004.7		0	0	0	0	0	0
Wirrarie North 1	28 14 01.190	139 54 02.442	Murteree Sh	2004.7	2032.1		0	0	0	0	0	0
Wirrarie North 1	28 14 01.190	139 54 02.442	Patchawarra Fm	2032.1	2104.3	0.85	2	0	0	0	0	0
Witchetty 1	28 18 00.920	140 48 12.020	Toolachee Fm	1907.4	1971.4	1	0	0	0	0	0	0
Witchetty 1	28 18 00.920	140 48 12.020	Roseneath Sh	2025.7	2034.2		0	0	0	0	0	0
Witchetty 1	28 18 00.920	140 48 12.020	Epsilon Fm			1.2						

Table 2 Alginite Database

Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
			2	2	5.6				
			1	1	12.4				
1			0	3	23.4			Jones, Wood	
1			0	2	3.6			Jones, Wood	
2			0	0				Jones, Wood	
0			0	1	2.8			Jones, Wood	
1			0	0				Jones, Wood	
1			0	1	12.4			Jones, Wood	
0			0					Paten	
		1	0	5	39	2	2	Marshall	
			0	0	0	2	2	Marshall	
			0	0				Marshall	
		1	0	5	62	2	2	Marshall	
			0						
			0						
			0.2						
0			1	1	7.8			Wood, Marshall	
0			0	0				Wood, Marshall	
0			3	1	12.4			Wood, Marshall	
1		1	4.5	3	23.4			Wood	Alginite A
			4.5	3	8.4			Wood	
			0	0				Wood	
			1.5	2	24.8			Wood	
1			1	2	15.6		5	Wood	
0								Wood	
5			1	1	2.8		5	Wood	
1			1	0			5	Wood	
1				1			5	Wood	
1				1	12.4		5	Wood	
0			0	2	15.6			Wood, Benson	
0			0	1	1.8			Wood, Benson	
1			0	0				Wood, Benson	
1			0	2	5.6			Wood, Benson	
0			0	0				Wood, Benson	
1			0.5	1	12.4			Wood, Benson	
2			0	3	23.4			Wood, Benson	
1			0	2	3.6			Wood, Benson	
0			0	0				Wood, Benson	
0			0	3	8.4			Wood, Benson	
0			0	0				Wood, Benson	
2			0	1	12.4			Wood, Benson	
0			0	2	15.6				
0			0	0					

Table 2 Alginite Database

Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Witchetty 1	28 18 00.920	140 48 12.020	Murteree Sh			1.2						
Witchetty 1	28 18 00.920	140 48 12.020	Patchawarra Fm			1.2						
Woma 1	27 17 42.378	140 24 51.333	Toolachee Fm	3010.2	3070.3		0	0	0	0	0	0
Woma 1	27 17 42.378	140 24 51.333	Epsilon Fm	3070.3	3109.6		0	0	0	0	0	0
Woma 1	27 17 42.378	140 24 51.333	Murteree Sh	3109.6	3123.0		0	0	0	0	0	0
Woma 1	27 17 42.378	140 24 51.333	Patchawarra Fm	3123.0	3164.1		0	0	0	0	0	0
Woolkina 1	27 35 22.600	140 06 54.450	Toolachee Fm	2720.0	2772.0	1.0						
Woolkina 1	27 35 22.600	140 06 54.450	Epsilon Fm	2772.0	2802.0	1.0						
Woolkina 1	27 35 22.600	140 06 54.450	Murteree Sh	2802.0	2842.0	1.0						
Woolkina 1	27 35 22.600	140 06 54.450	Patchawarra Fm	2842.0		1.1						
Woolkina 2	27 34 50.400	140 07 15.270	Toolachee Fm	2720.6	2759.4							
Woolkina 2	27 34 50.400	140 07 15.270	Epsilon Fm	2759.4	2794.4							
Woolkina 2	27 34 50.400	140 07 15.270	Murteree Sh	2794.4	2807.2							
Woolkina 2	27 34 50.400	140 07 15.270	Patchawarra Fm	2807.2	3022.7							
Wooloo 1	28 15 47.170	140 01 09.930	Toolachee Fm	2053.7	2079.3	1.0						
Wooloo 1	28 15 47.170	140 01 09.930	Daralingie Fm	2079.3	2132.1	1.0						
Wooloo 1	28 15 47.170	140 01 09.930	Roseneath Sh	2132.1	2176.9							
Wooloo 1	28 15 47.170	140 01 09.930	Epsilon Fm	2176.9	2222.3	1.1						
Wooloo 1	28 15 47.170	140 01 09.930	Murteree Sh	2222.3	2264.4	1.1						
Wooloo 1	28 15 47.170	140 01 09.930	Patchawarra Fm	2264.4		1.1						
Wooloo South 1	28 17 11.598	140 02 20.778	Toolachee Fm	2116.5	2166.5	0.9	0	0	0	1	0	0
Wooloo South 1	28 17 11.598	140 02 20.778	Daralingie Fm	2166.5	2206.8	1	0	0	0	0	0	0
Wooloo South 1	28 17 11.598	140 02 20.778	Roseneath Sh	2206.8	2256.7		0	0	0	0	0	0
Wooloo South 1	28 17 11.598	140 02 20.778	Epsilon Fm	2256.7	2313.1	1	0	0	0	0	0	0
Wooloo South 1	28 17 11.598	140 02 20.778	Murteree Sh	2313.1	2363.4	1	0	0	0	0	0	0
Wooloo South 1	28 17 11.598	140 02 20.778	Patchawarra Fm	2363.4	2488.7	1.1	0	0	2	2	0	0
Wronsky 1	28 12 22.420	139 35 36.230	Patchawarra Fm	1892.8	1898.9		0	0	0	0	0	0
Wuroopie 1	28 37 57.820	140 41 24.510	Toolachee Fm	1631.3	1709.3		0	0	0	0	0	0
Wuroopie 1	28 37 57.820	140 41 24.510	Daralingie Fm	1709.3	1747.1		0	0	0	0	0	0
Wuroopie 1	28 37 57.820	140 41 24.510	Roseneath Sh	1747.1	1779.4		0	0	0	0	0	0
Wuroopie 1	28 37 57.820	140 41 24.510	Epsilon Fm	1779.4	1847.1		0	0	0	0	0	0
Wuroopie 1	28 37 57.820	140 41 24.510	Murteree Sh	1847.1	1892.2		0	0	0	0	0	0
Wuroopie 1	28 37 57.820	140 41 24.510	Patchawarra Fm	1892.2	1965.4		0	0	0	0	0	0
Yalchirrie 1	27 32 41.208	140 34 35.864	Patchawarra Fm	2430.5	2544.5							
Yalcumma 1	28 20 54.990	140 09 16.510	Toolachee Fm	2232.4	2325.6	1.04	0	1	0	0	0	0
Yalcumma 1	28 20 54.990	140 09 16.510	Daralingie Fm	2325.6	2407.6	1	0	1	0	0	0	0
Yalcumma 1	28 20 54.990	140 09 16.510	Roseneath Sh	2407.6	2481.1	1.06	0	1	0	0	0	0
Yalcumma 1	28 20 54.990	140 09 16.510	Epsilon Fm	2481.1	2569.5	1.18	0	0	0	0	0	0
Yalcumma 1	28 20 54.990	140 09 16.510	Murteree Sh	2569.5	2637.7	1.08	0	0	0	0	0	0
Yalcumma 1	28 20 54.990	140 09 16.510	Patchawarra Fm	2637.7	2942.5	2.15	0	0	0	0	0	0
Yanta 1	27 21 07.930	139 50 53.910	No Permian									
Yapeni 1	28 21 09.320	139 53 21.650	Toolachee Fm	1917.5	1962.9		0	0	0	0	0	0
Yapeni 1	28 21 09.320	139 53 21.650	Daralingie Fm	1962.9	1993.7		0	0	0	0	0	0
Yapeni 1	28 21 09.320	139 53 21.650	Roseneath Sh	1993.7	2035.5		0	0	0	0	0	0
Yapeni 1	28 21 09.320	139 53 21.650	Epsilon Fm	2035.5	2092.8		0	0	0	0	0	0

Table 2 Alginite Database

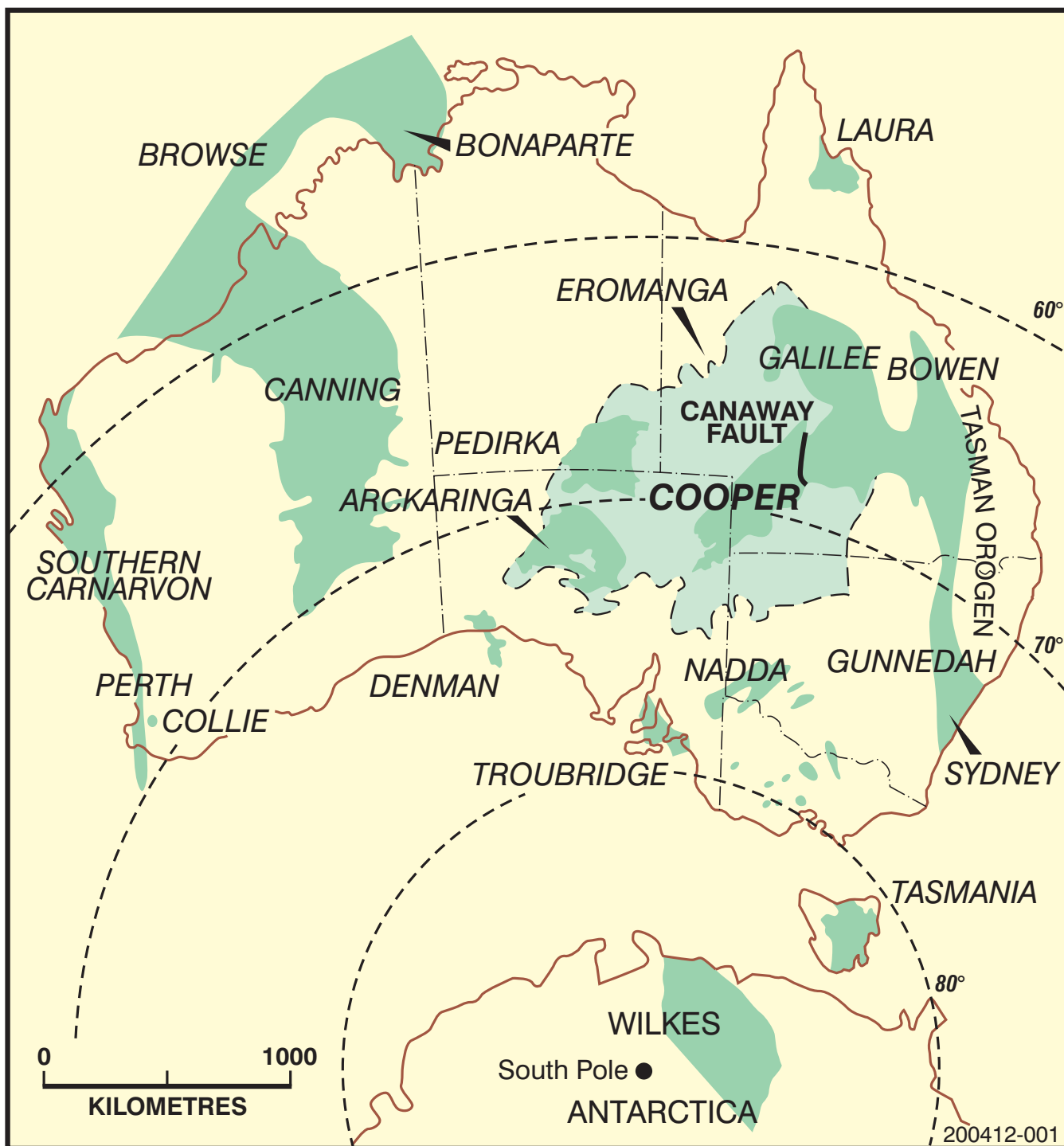
Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
0			0.5	2	15.6			Benson, Wood	
0			1	2	5.6			Benson, Wood	
0			0	0				Benson, Wood	
0			0	2	24.8			Benson, Wood	
1			1	2	15.6			Benson	
0			0	1	1.8			Benson	
0			0	0				Benson	
0			0	1	2.8			Benson	
0			0	0				Benson	
4			1	2	24.8			Benson	
0			0	3	37.2			Marshall, Wood	
0			0					Wood	
0			0					Wood	
0			0					Wood	
0			0.5					Wood	
0			0					Wood	
0	2		0.1	2	24.8			Wood	
1			1	1	12.4	5		Wood	
1			0.5	4	31.2			Price	gas show
1			0	3	5.4			Price	gas show
1			0	0				Price	
0			0	2	5.6			Price	gas show
0			1	0			1	Price	
0			1	4	49.6	1		Price	gas show
0			2	3	23.4	5	2	Jones	
0			1	0	0			Jones	
0			0	0				Jones	
1			1	1	2.8	5	5	Jones	

Table 2 Alginite Database

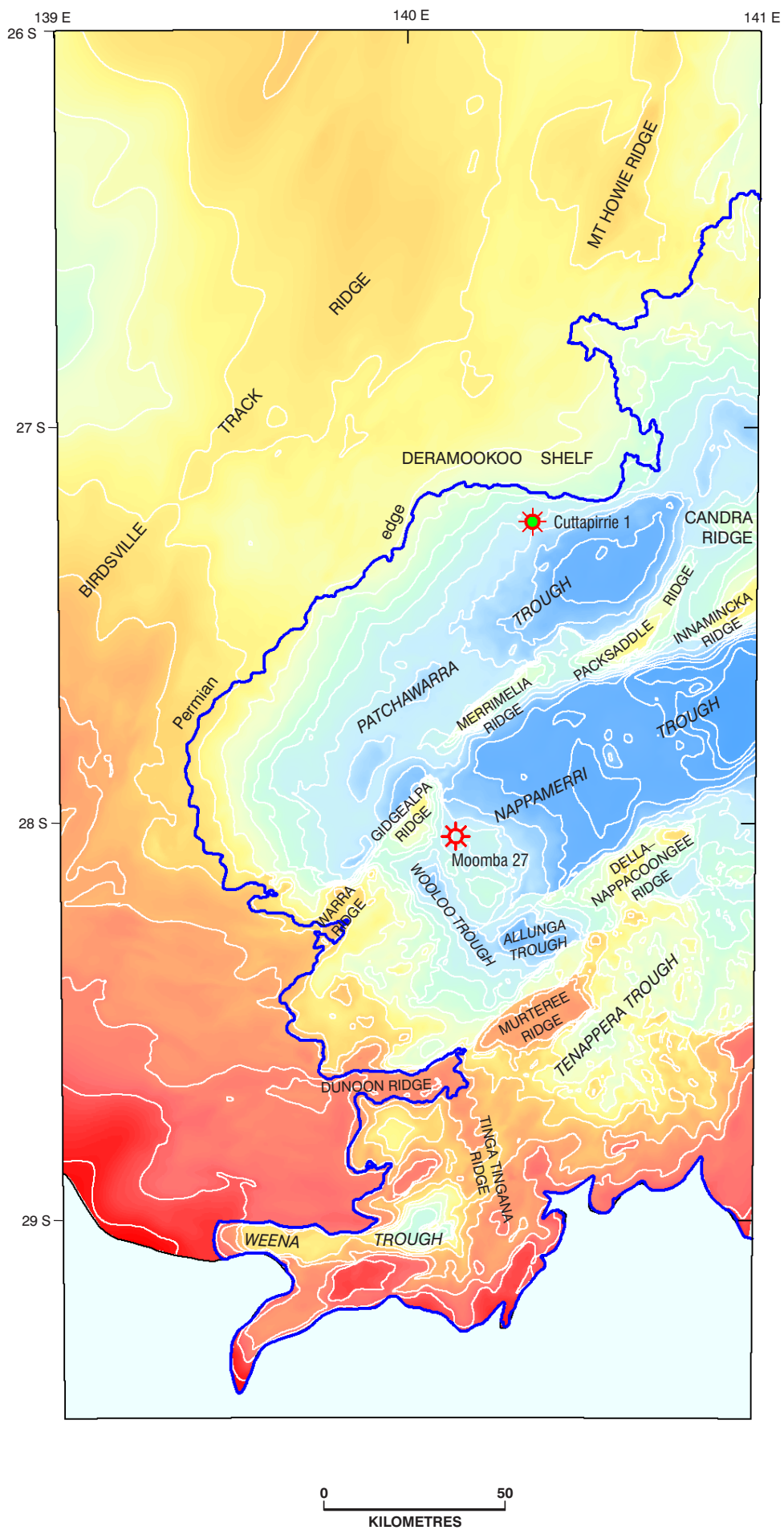
Well	Latitude	Longitude	Formation	From	To	VR	Botryococcus	Maculatasporites	Peltacystia	Quadrisporites	Reinschia	Tetrasporina
Yapeni 1	28 21 09.320	139 53 21.650	Murteree Sh	2092.8	2134.5		0	0	0	0	0	0
Yapeni 1	28 21 09.320	139 53 21.650	Patchawarra Fm	2134.5	2232.7		0	0	0	0	0	0
Yapeni 2	28 21 26.220	139 53 40.980	Roseneath Sh	2051.9	2101.3							
Yapeni 2	28 21 26.220	139 53 40.980	Patchawarra Fm	2205.5								
Yarma 1	27 48 14.450	139 55 50.090	Toolachee Fm	2532.9	2572.2							
Yarma 1	27 48 14.450	139 55 50.090	Patchawarra Fm	2572.2	2747.2							
Yarowinnie 1	27 48 14.450	139 55 50.090	Toolachee Fm	2532.0	2580.4	0.9	0	0	0	0	0	0
Yarowinnie 1	27 48 14.450	139 55 50.090	Epsilon Fm	2580.4	2647.8	0.9	0	1	2	0	0	0
Yarowinnie 1	27 48 14.450	139 55 50.090	Murteree Sh	2647.8	2662.1		0	0	0	0	0	0
Yarowinnie 1	27 48 14.450	139 55 50.090	Patchawarra Fm	2662.1	3064.5	1.2	0	0	0	0	0	0

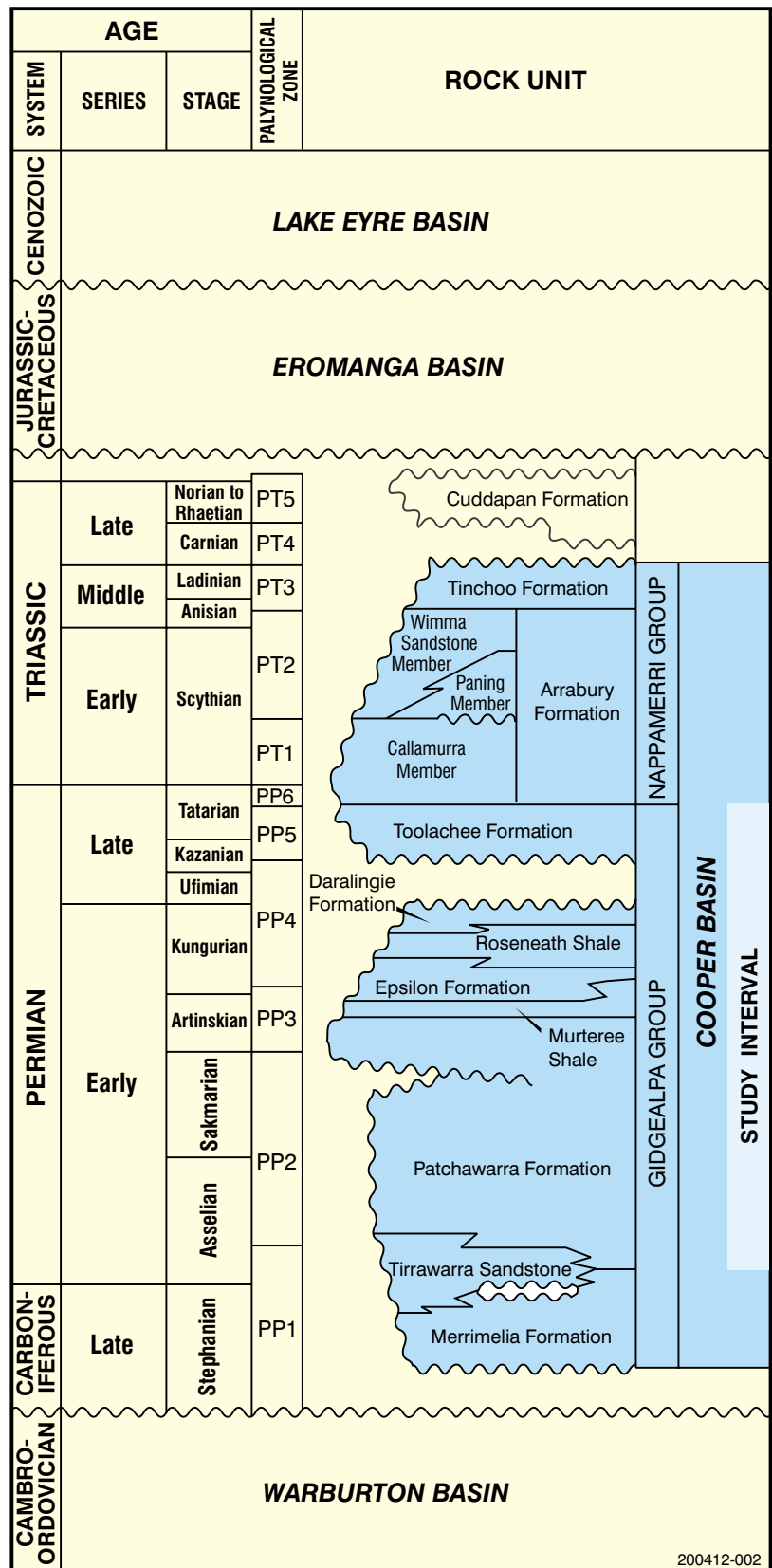
Species	Abundance	Alginite	Live Oil	Coal	Coal m	Inertinite%	DOM	Source	Comments
1			0	0		5	5	Jones	
0			2	4	49.6	5	5	Jones	
			1.5						
			0.5						
			0.5						
			1.5						
0			0					Wood, Jones	
3			0					Wood, Jones	
0			0					Wood, Jones	
0	1		0					Wood, Jones	

Figures



LOCATION OF COOPER BASIN IN AUSTRALIA





200412-002

COOPER BASIN GEOLOGICAL SUCCESSION

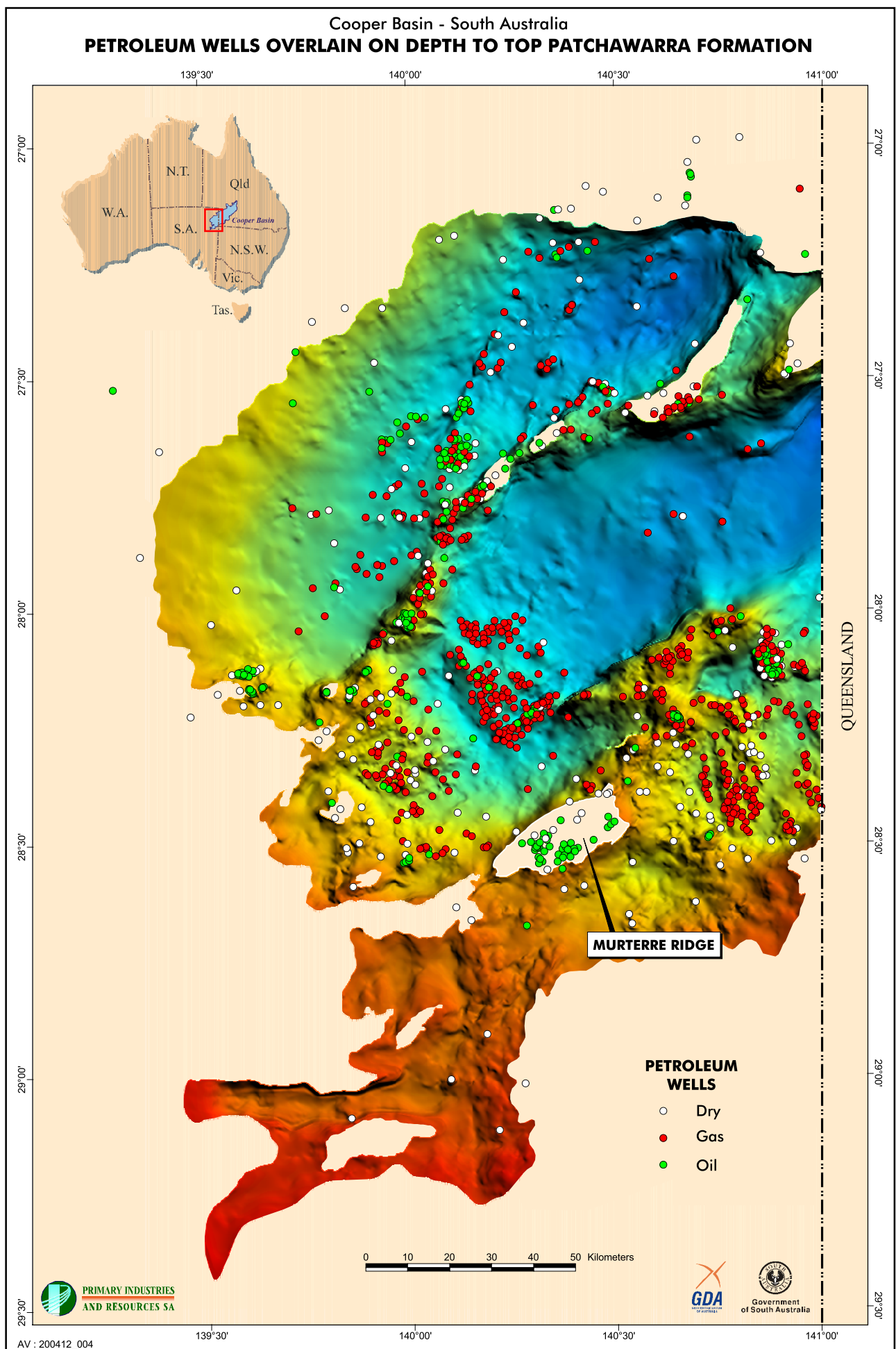
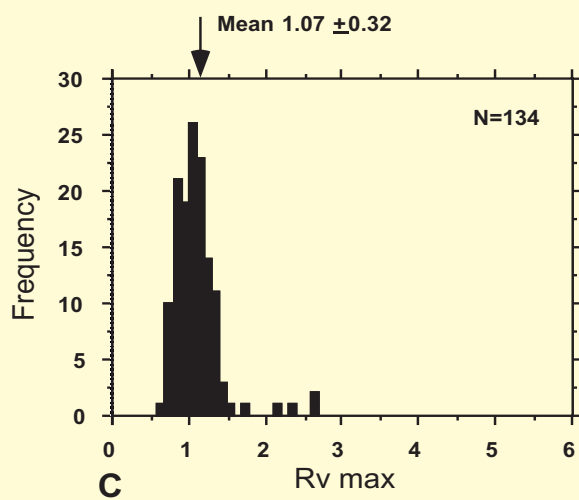
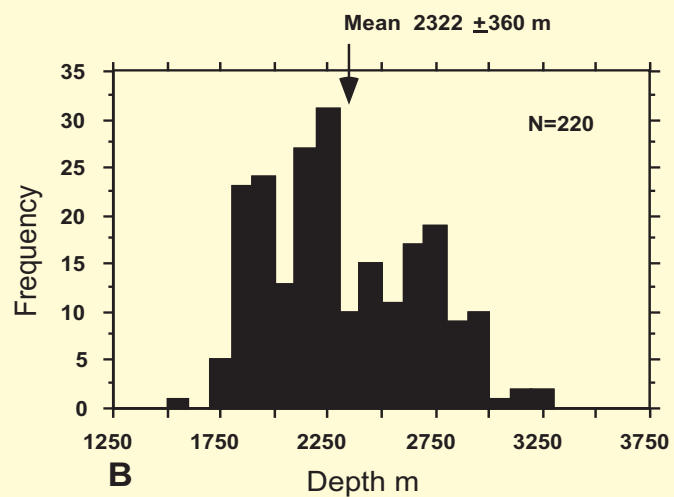
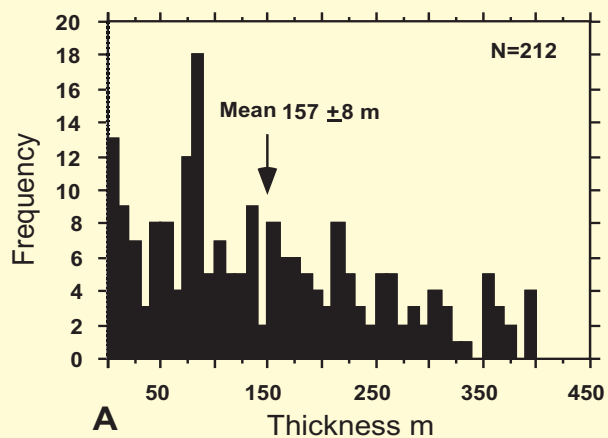
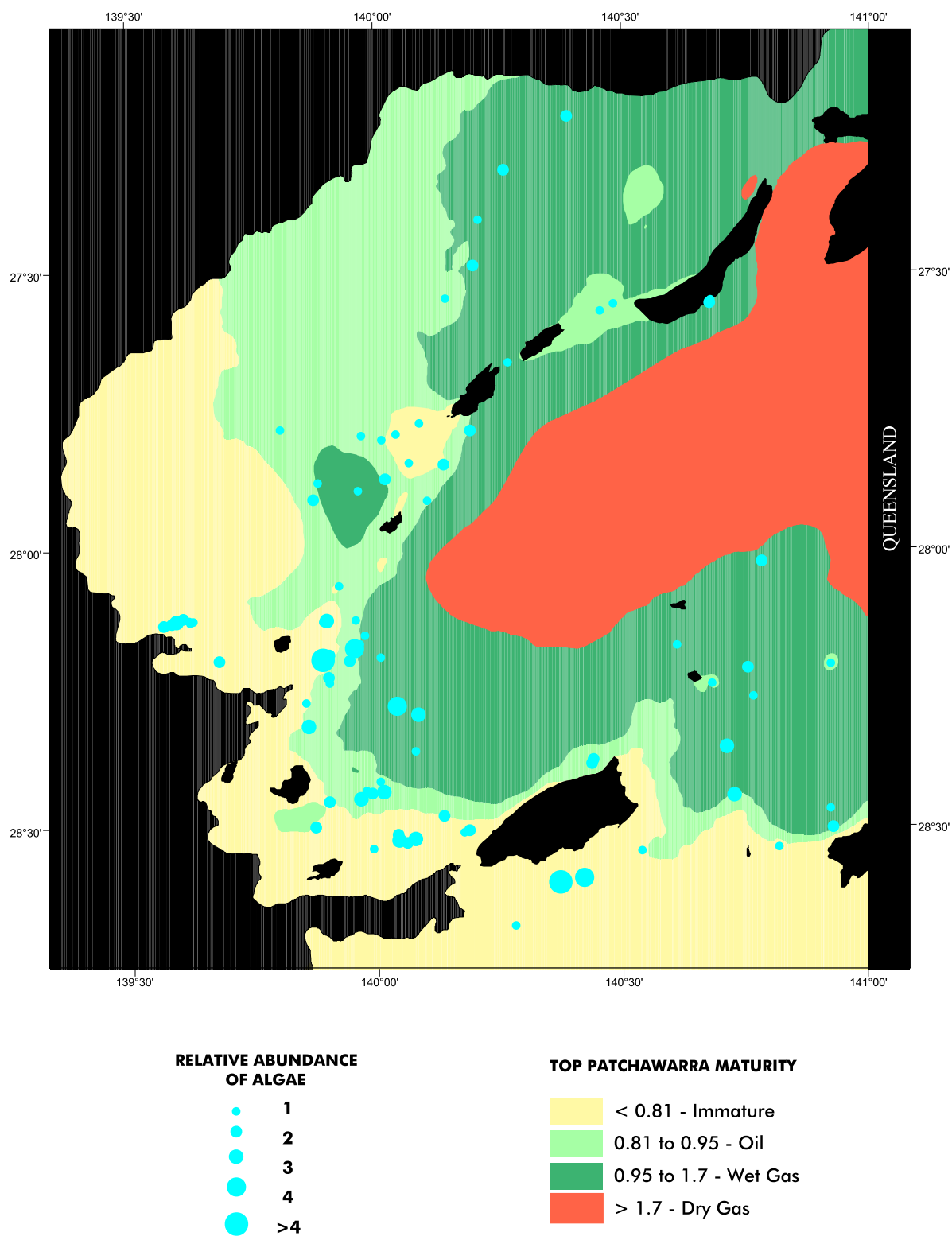


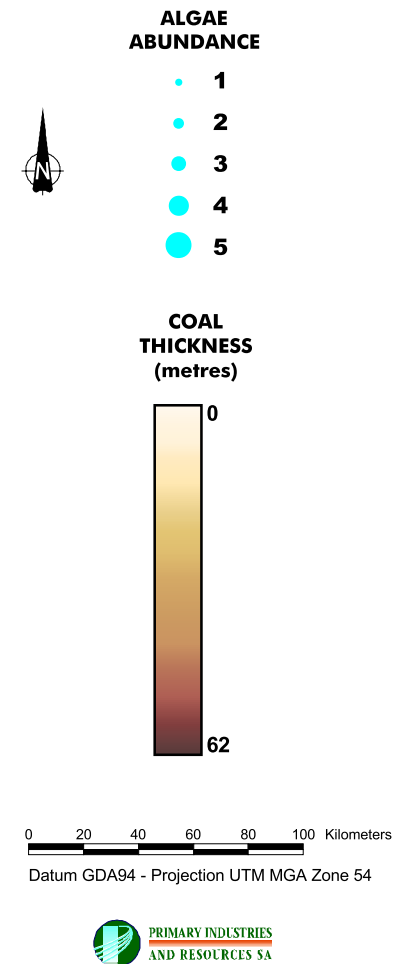
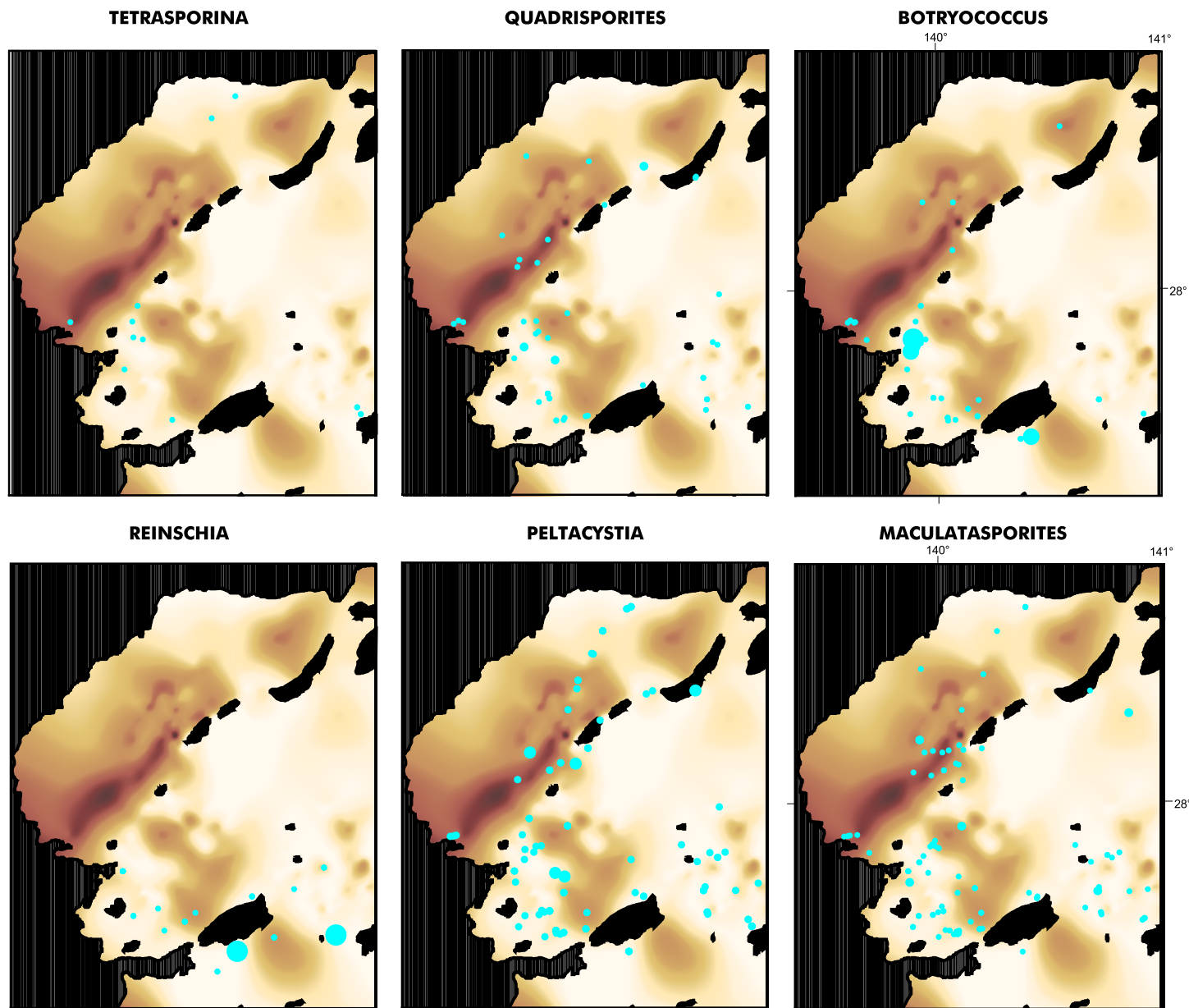
Figure 4



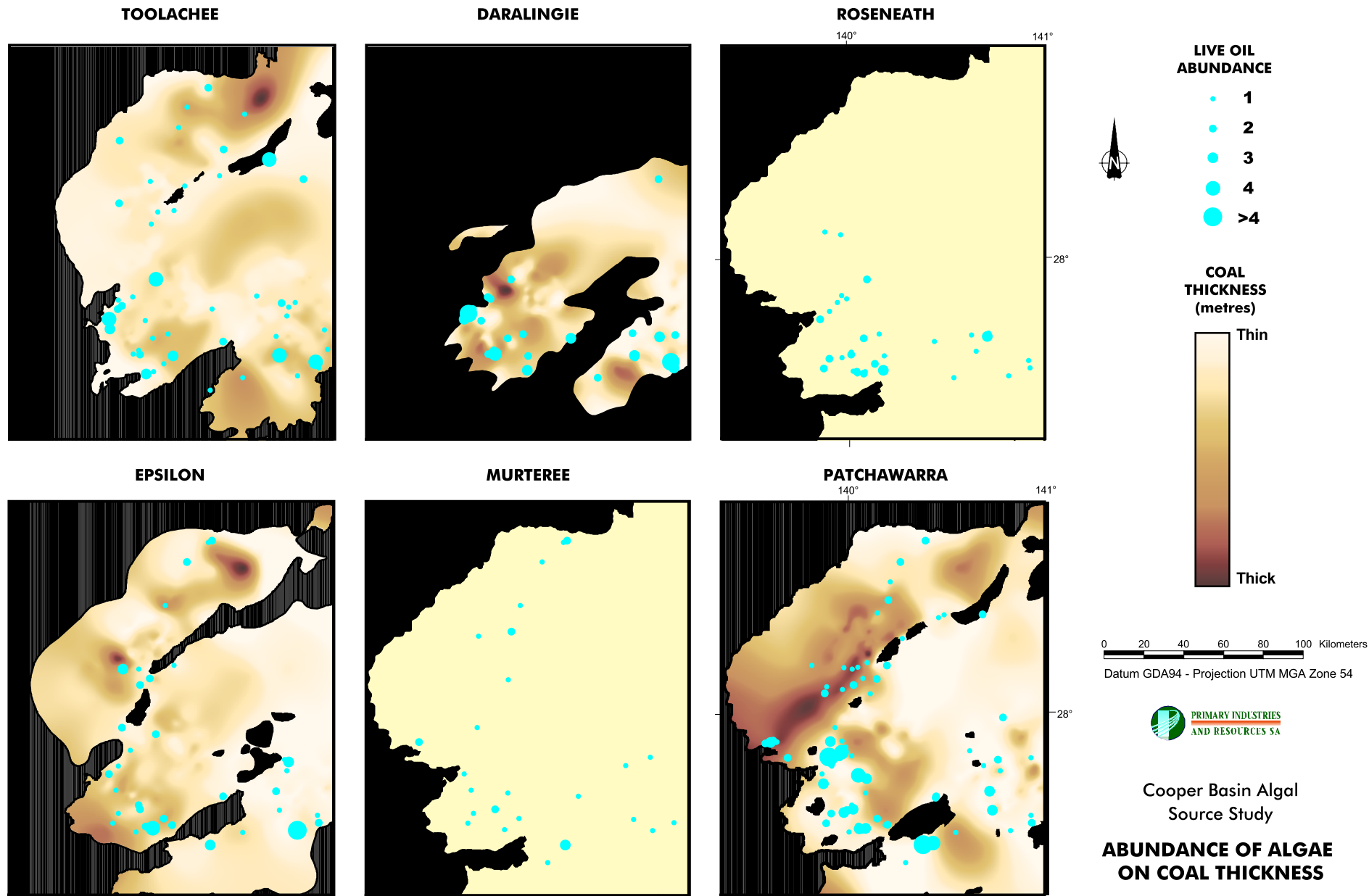
Patchawarra Formation Statistics

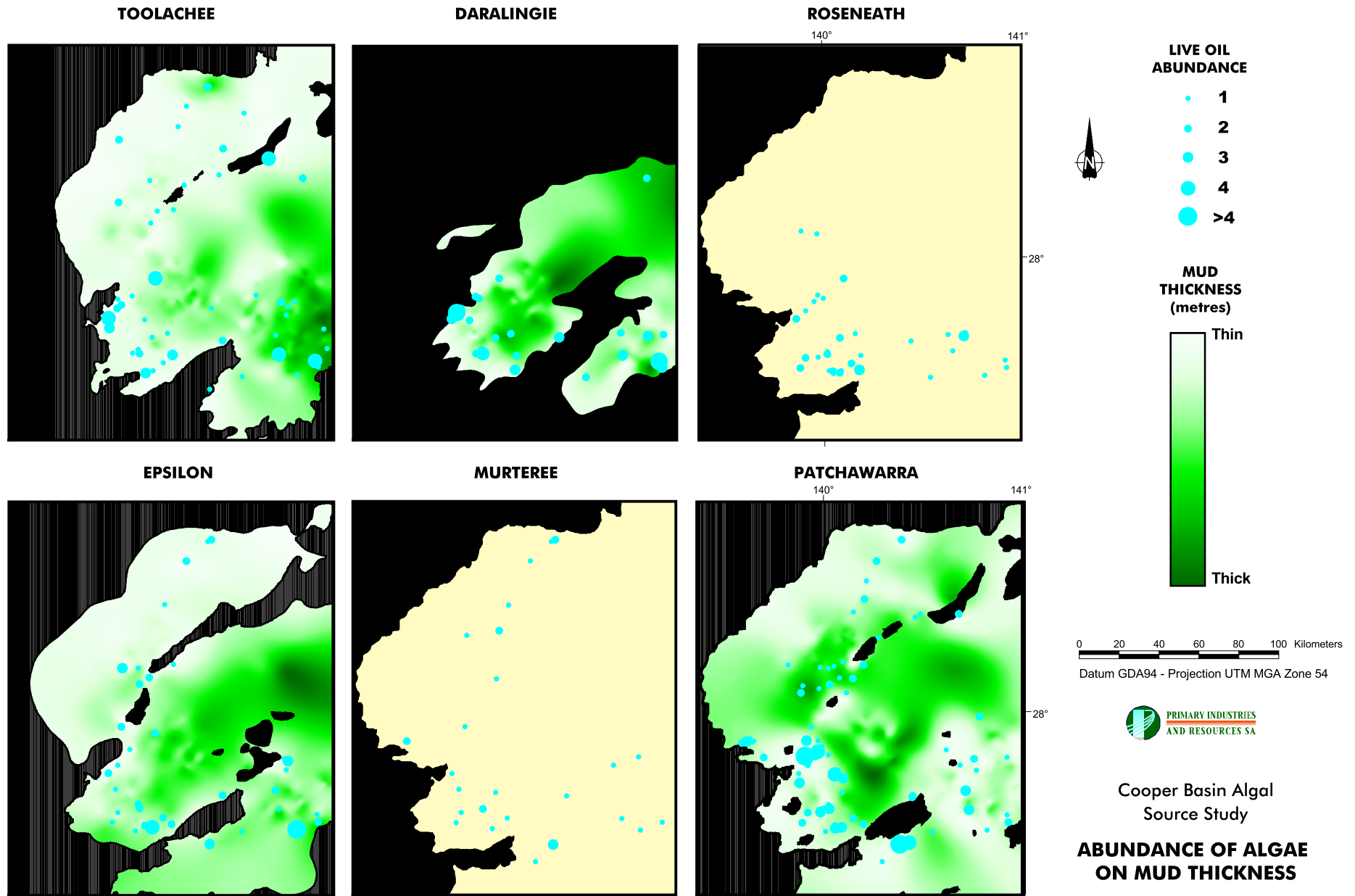
Cooper Basin Algal Study - South Australia
ABUNDANCE OF ALGAE OVER TOP OF PATCHAWARRA FORMATION MATURITY

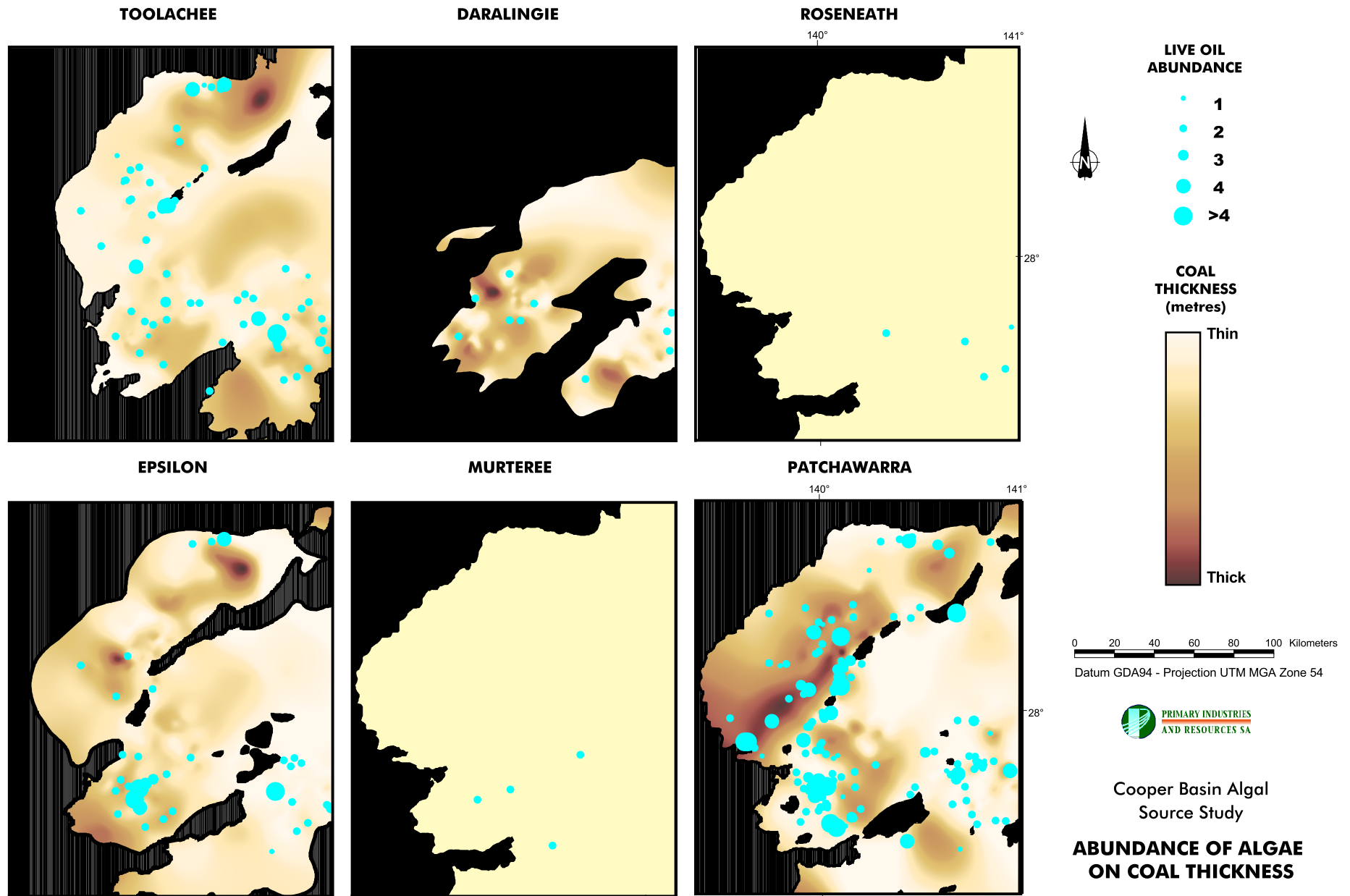


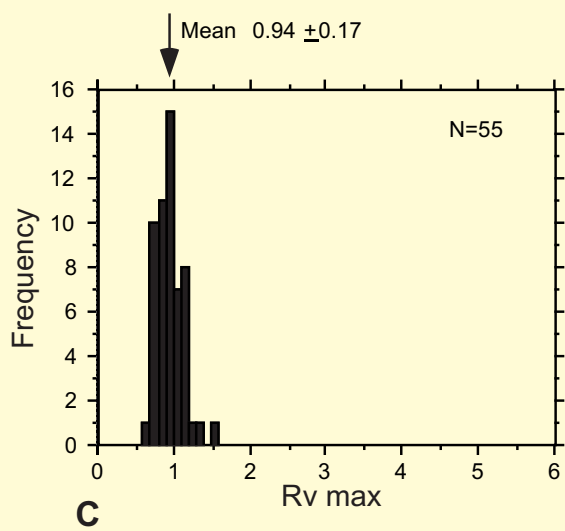
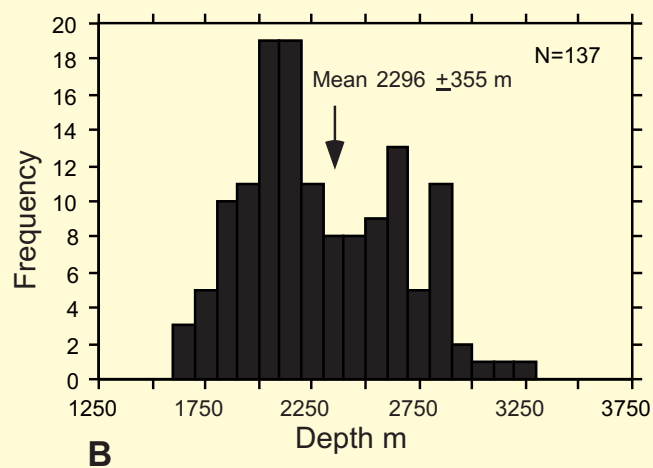
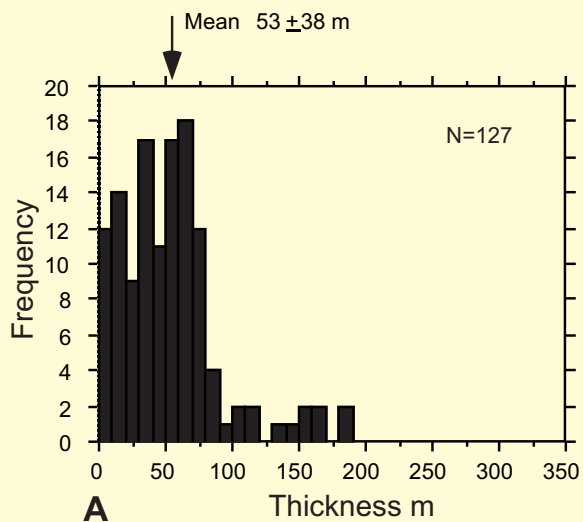


Cooper Basin Algal
Source Study
**DISTRIBUTION OF ALGAE
TYPES ON PATCHAWARRA
COAL THICKNESS**

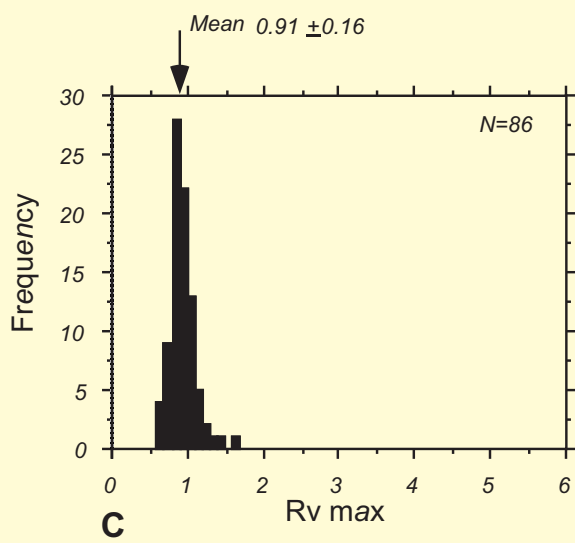
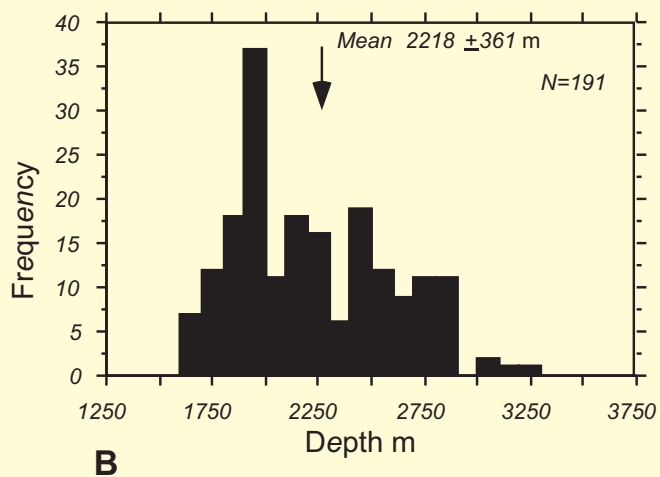
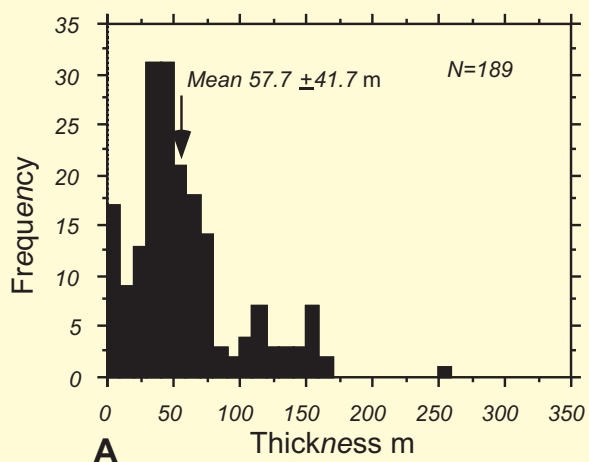




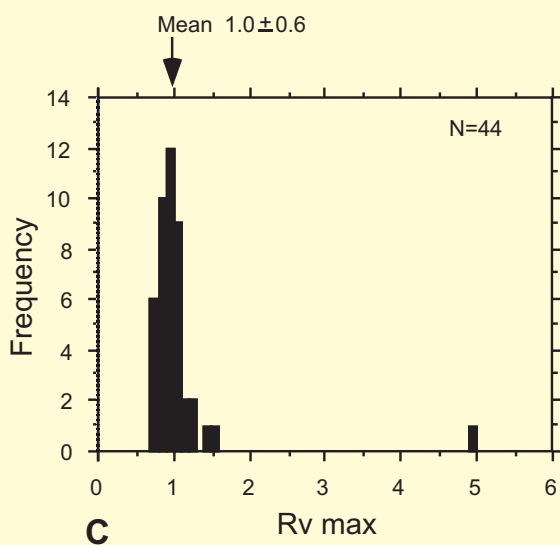
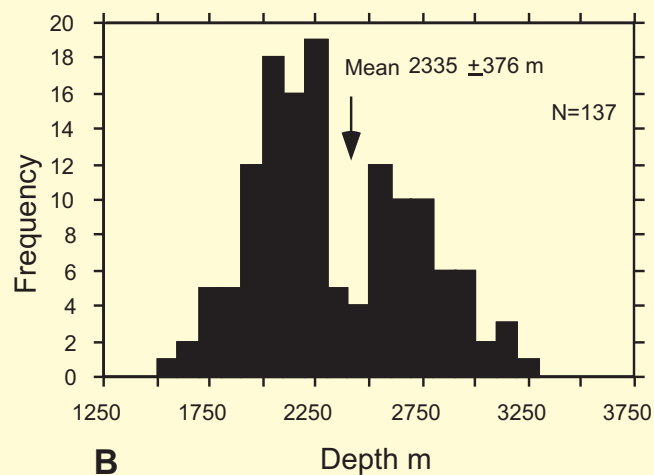
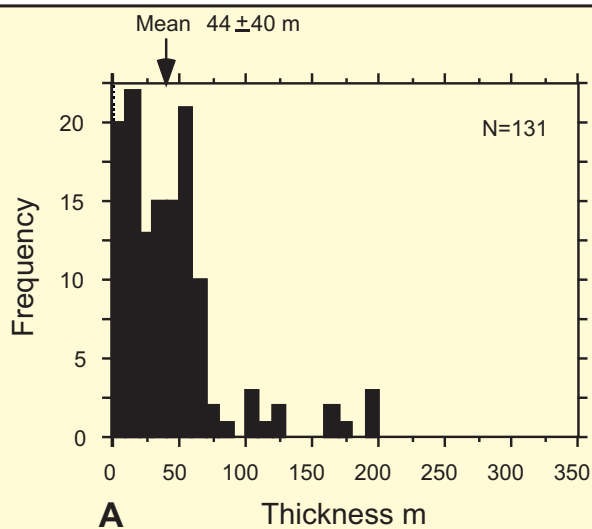




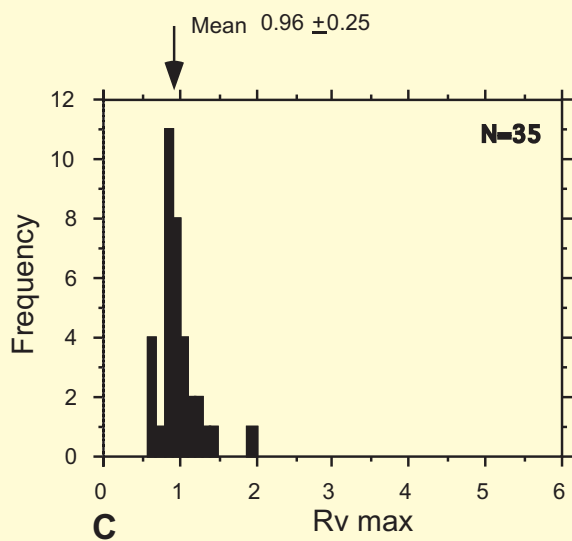
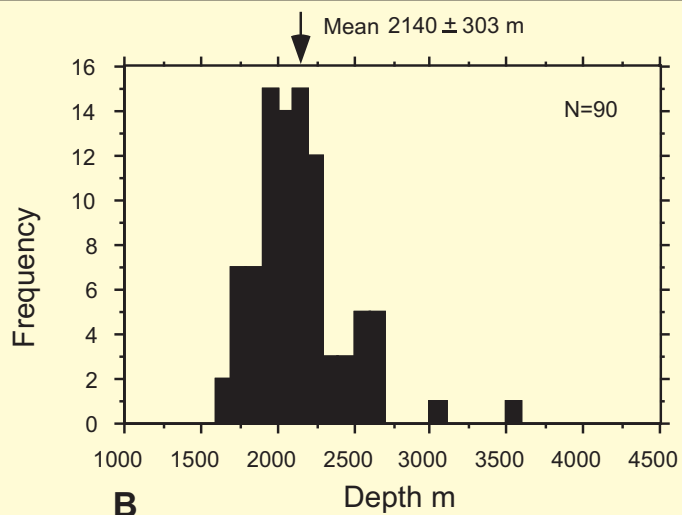
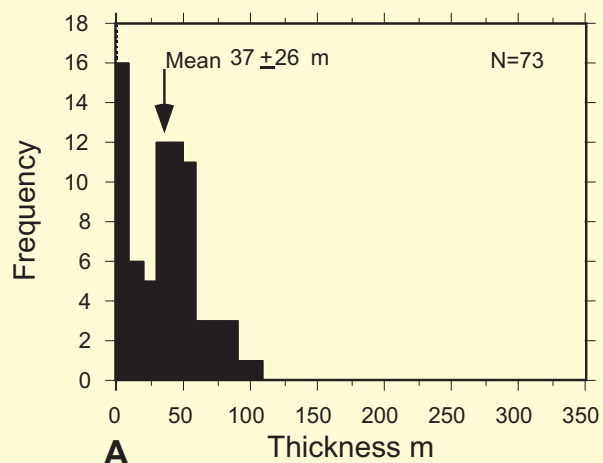
Epsilon Formation Statistics



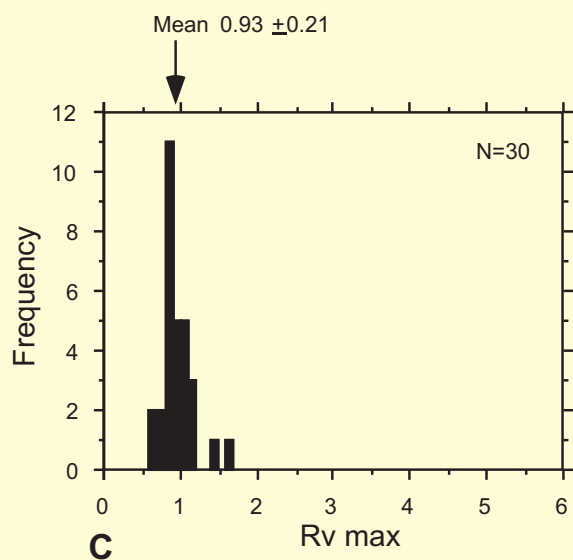
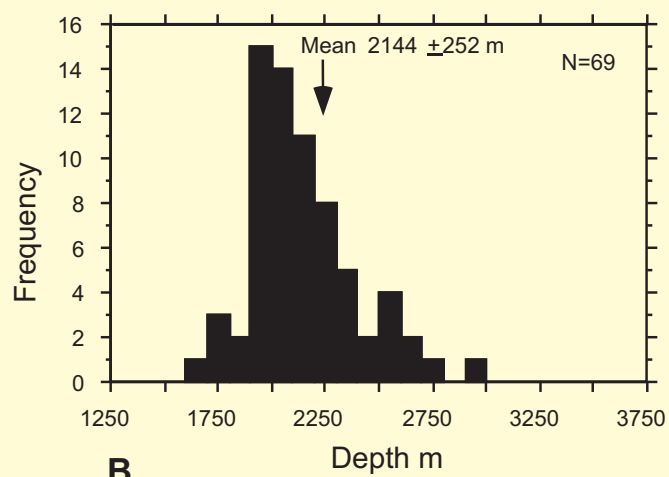
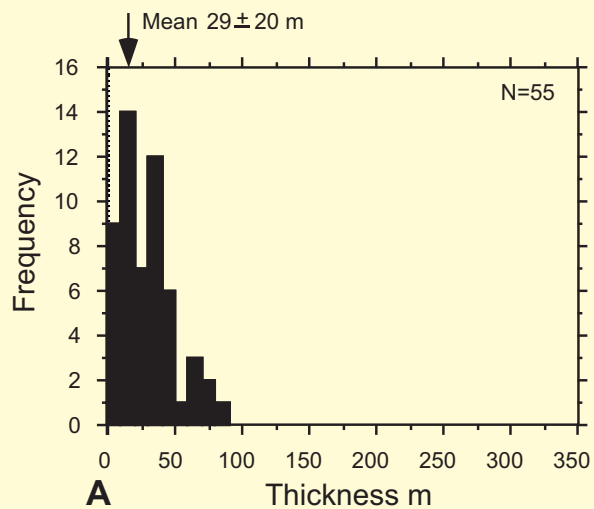
Toolachee Formation Statistics



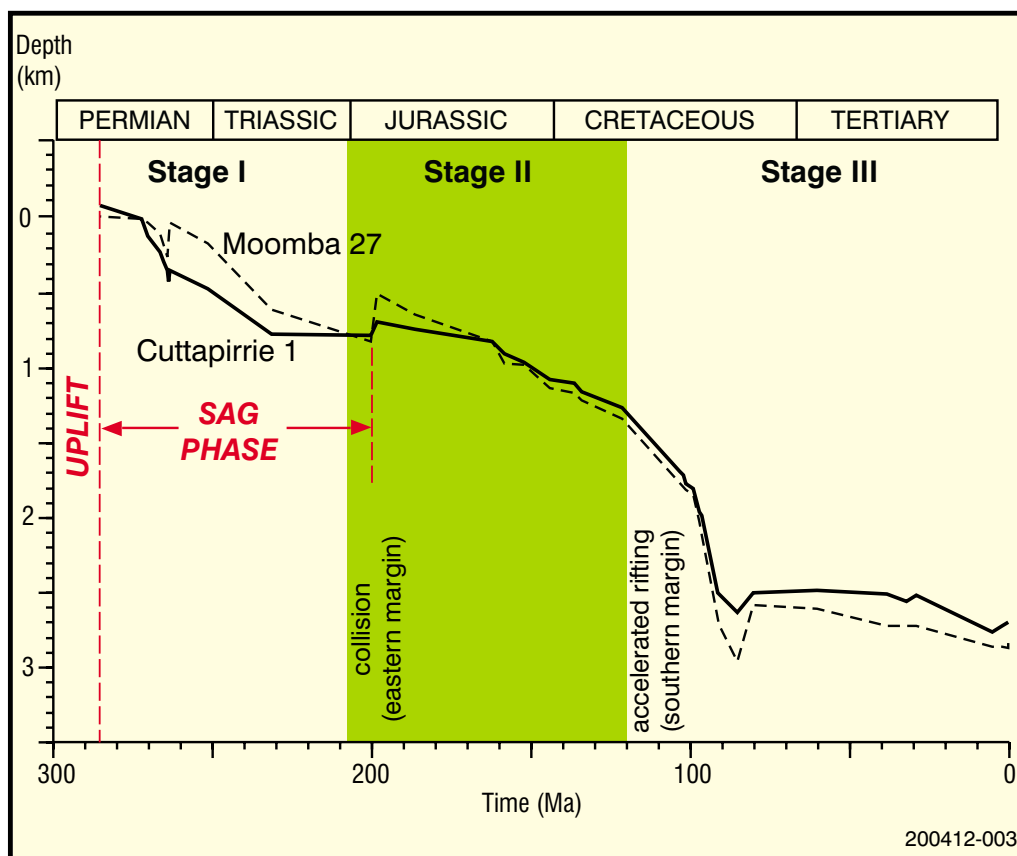
Murteree Shale Statistics



Roseneath Shale Statistics



Daralingie Formation Statistics



INTERPRETIVE BURIAL HISTORY OF CUTAPIRRIE 1