TRI-STAR ENERGY COMPANY

EXPLORATION LICENCE (EL) 24918

ANNUAL REPORT FOR PERIOD ENDING 7 SEPTEMBER 2007

SUBMITTED BY THE TITLEHOLDER -
TRI-STAR ENERGY COMPANY

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Date: 3 October 2007
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Summary

Section 34 of the Mining Act requires the submission of an Annual Report prepared by the titleholder for each current Exploration Licence (EL). This first Annual Report for EL 24918 provides a summary of activities undertaken on the permit in the past year including any results produced by these activities.

EL 24918 was granted on 8 September 2006 for a term of six years. Tri-Star Energy Company is the sole titleholder and the operator of EL 24918. The work and expenditure program for EL 24918 during its first year required a geological and geophysical review of existing data and information towards determining the location of Permian coals within the Purni Formation and specifically, their depth, thickness, lateral extent and quality. No field activities were intended during the first year and none were carried out.

Tri-Star commenced the review of existing data for the permit area and the Pedirka Basin in general to identify existing seismic, well and bore data, geology, cadastral information and topography. It has been determined from investigations during the reporting period that there are at least four seismic surveys from the 1960s and 1980s that have seismic lines that occur at least in part on the tenure. Currently, a search is in progress for the seismic data from all of these lines to assist in the mapping of the Permian coal seams. The geological investigations and the literature search commenced during the reporting period has indicated that the Purni Formation and its associated coals do not crop out within the area of EL 24918 but may occur at depth throughout the tenure.

Tri-Star has met all work and expenditure commitments for EL 24918 for the first year of the term, further work will be required to determine definitely the location of the Permian coals and the second year of the term will focus on addressing this issue.

Introduction

EL 24918 was granted to Tri-Star Energy Company on 8 September 2006, and covers an area of 500 sub-blocks.

EL 24918 is located approximately 38 kilometres southeast of Finke in the southern Northern Territory, and the tenure’s southernmost boundary meets the border between the Northern Territory and South Australia, as shown in Figure 1. EL 24918 is geologically located over the Pedirka and Eromanga Basins, as shown in Figures 2 and 3. Figure 4 shows the surface geology of the tenure.

The topography of the tenure area, shown in Figure 6, is varied and includes the floodplains of the Finke River, Coglin and Peebles Creeks and by the north northwest-trending sand dunes of the Simpson Desert that average less than 15 metres in height as well as numerous claypans, small dry lakes and swamps. The elevation above sea level increases towards the northeastern and southwestern ends of EL 24918. The tenure is traversed by roads and tracks to properties, dams and water bores in the area.

EL 24918 is located on the Finke 1:250,000 map sheet (SG53-6), and its Finke (5846) 1:100,000 map sheet; and the McDills 1:250,000 map sheet (SG53-7), and its Mc Dills (5946), Andado (5947) and Nuckua (6047) 1:100,000 map sheets.

Tri-Star’s exploration rationale and objectives for EL 24918 consider the evaluation of the coal potential of the Permian Purni Formation, which contains coal seams that are likely to be correlatives of Upper Permian coal measures found in Queensland’s Bowen Basin. Investigations are intended to locate the subcrop edge of the Purni Formation and at the time or writing this zero
edge is yet to be identified. The coal quality in the permit area and actual location and local lateral extent of the coals, if present, are still to be determined.

The exploration programme during the initial term will identify the location and the parameters of the Permian coals of the Purni Formation towards determining their potential for mining. Further data review and interpretation are required together with information on coal parameters. Encouraging coal results will necessitate the completion of preliminary mine and market investigations.

**History of EL 24918**

EL 24918 was granted to Tri-Star Energy Company for six years commencing 8 September 2006, as the sole titleholder and operator. The permit is comprised of 500 sub-blocks located approximately 38 kilometres southeast of Finke in the southern Northern Territory.

The 500 sub-blocks are described as follows:

**500 Sub-Blocks – Oodnadatta SG53 1:1,000,000 Block Identification Map:**
- Block 910 – A to H, J to Z (all inclusive),
- Block 980 – C to E, H to K, N to P, S to U, X to Z (all inclusive),
- Block 981 – A to H, J to Z (all inclusive),
- Block 1050 – V to Z (all inclusive),
- Block 1051 – L to Z (all inclusive),
- Block 1052 – A to H, J to Z (all inclusive),
- Block 1121 – A to H, J to Z (all inclusive),
- Block 1122 – A to H, J to Z (all inclusive),
- Block 1193 – A to H, J to Z (all inclusive),
- Block 1264 – A to H, J to Z (all inclusive),
- Block 1265 – A, B,
- Block 1335 – A to H, J to Z (all inclusive),
- Block 1336 – A to H, J to Z (all inclusive),
- Block 1406 – A to H, J to Z (all inclusive),
- Block 1407 – A to H, J to Z (all inclusive),
- Block 1477 – A to H, J to Z (all inclusive),
- Block 1478 – A to H, J to Z (all inclusive),
- Block 1548 – A to H, J to Z (all inclusive),
- Block 1549 – A to H, J to Z (all inclusive),
- Block 1619 – A to H, J to S, V to X (all inclusive),
- Block 1620 – A to H, J to P, S to U, X to Z (all inclusive),
- Block 1690 – A to H, J to Z (all inclusive),
- Block 1691 – A to C, F to H, L to Z (all inclusive).

The permit area is located over surface lands that have not extinguished native title, which are comprised primarily of Perpetual Pastoral Leases, as shown in Figure 7.

Currently, office-based coal exploration activities continue to progress on the tenure with preliminary results confirming the need for further investigation.

**Regional Geology**

The Pedirka Basin is an intracratonic basin located across the border between the Northern Territory and South Australia in central Australia, with the majority of the basin area occurring in the
Table 1

STRATIGRAPHIC TABLE - EROMANGA / SIMPSON / PEDIRKA BASINS

<table>
<thead>
<tr>
<th>BASIN</th>
<th>AGE</th>
<th>STRATIGRAPHY</th>
</tr>
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<tbody>
<tr>
<td>EYRE</td>
<td>CRETACEOUS TERTIARY</td>
<td>Recent sediments</td>
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<tr>
<td></td>
<td></td>
<td>Eyre Formation</td>
</tr>
<tr>
<td>EROMANGA</td>
<td>JURASSIC</td>
<td>Winton Formation</td>
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<tr>
<td></td>
<td>TRIASSIC</td>
<td>Allaru Mudstone</td>
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<td></td>
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<td>Toolebuc Formation</td>
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<td></td>
<td></td>
<td>Cadna-owie Formation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Algebuckina Sandstone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Poolowanna Sandstone</td>
</tr>
<tr>
<td>SIMPSON</td>
<td>PERMIAN</td>
<td>Peera Peera Formation</td>
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<tr>
<td></td>
<td>CARB.</td>
<td>Walkandi Formation</td>
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<tr>
<td></td>
<td>PRE-CARB.</td>
<td>Purni Formation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crown Point Formation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Undifferentiated</td>
</tr>
</tbody>
</table>

Modified after Middleton et al 2005
Northern Territory. The geologic units it contains are Permo-Carboniferous in age and are correlative with sediments of the Cooper and Officer Basins.

The eastern part of the Pedirka Basin is covered by a thin section of units of the Simpson Basin, which are Triassic in age. The sections of these two basins are then in turn overlain by a thicker succession of Eromanga Basin units, which are Jurassic-Cretaceous in age. Where the Simpson Basin section is absent, the Pedirka Basin is directly overlain by sediments of the Eromanga Basin.

The primary structural features of the Pedirka Basin are the Eringa and Madigan Troughs, which are also the main depocentres that are separated by the McDills Anticline.

Table 1 provides a stratigraphic table of the Pedirka Basin, and the overlying Simpson (where present) and Eromanga Basins. These basins are also overlain by a shallow section of fluvial and aeolian units of the Eyre Basin, which is found at the surface.

**Permit Geology**

EL 24918 is geologically located over the central western part of the Pedirka Basin where the section thins to the northwest. The tenure is located updip on the northwestern side from the axis Eringa Trough and is positioned parallel to the axis in a northeast-southwest orientation. The northern zero edge of the Pedirka Basin that runs in a general east-west direction is located approximately 58 kilometres north of the northern boundary of the tenure.

Within the tenure area, units of the Pedirka Basin are overlain by a substantial section of Cretaceous-Jurassic units of the Eromanga Basin. It is believed that Simpson Basin units are absent from the stratigraphic section in this area, as EL 24918 is located west of that basin’s margin.

Our preliminary studies to date indicate that the entire tenure is likely to have the Purni Formation present with its associated coals with seams striking northeast-southwest and dipping to the southeast at between one to three degrees. Seismic data indicate that shallowest Purni Formation coals are likely to occur towards the southwestern end of the tenure.

**Exploration objectives and rationale**

The objective of Tri-Star Energy Company’s exploration program on EL 24918 and adjoining tenures is to identify a deposit of Permian age coal from the Pedirka Basin that can be economically extracted and sold at a profit. The product target of the exploration program is the coal that occurs in the upper portion of the Purni Formation. Tri-Star is conducting its exploration for the target coals from a basin-wide perspective, as we currently hold 12 granted and two applications for Exploration Licences for coal, which cover approximately 60% of the Pedirka Basin in the Northern Territory, located over the central and western parts of the basin.

Tri-Star’s exploration rationale includes a literature search where access to all available literature from previous private and governmental basin studies, mineral and petroleum exploration to understand what is currently known about the coals of the Purni Formation in existing reports.

Tri-Star is also conducting a geological and geophysical data review to determine what data are available for further interpretation. Tri-Star is collecting all available data to include in our data sets, which will assist with the identification and mapping of shallow coal seams and key formations, as well as determining the most prospective areas, where the coal is shallowest, and assist with finding the updip limit of the Pedirka Basin coals. Tri-Star will gather all available seismic data from the Northern Territory and South Australian governments in preferably SEG-Y
format. If this seismic data format is not available, Tri-Star has the capability to scan hard copy seismic sections to obtain a Tiff file from which a SEG-Y format can be created. Where necessary, any old analogue seismic data that has navigation data can be transcribed and reprocessed to allow its use in the exploration program. The SEG-Y seismic data will be imported into Tri-Star’s SMT mapping package and a decision will be made to map all or parts of the Pedirka Basin based upon the gathered and loaded data.

Tri-Star will obtain all well data that intersects the Purni Formation and include the depths of the reported formation tops in the mapping package. Note will be taken of formation lithology identification and descriptions. Petroleum wells will be the most useful well-data source; however, all government bores, mineral bores and water wells will be investigated to confirm if they intersected the target coals.

Synthetic seismograms will be created and used where possible from wells that have run a sonic log that are located in areas of interest. A digitized version of the sonic log will be created or obtained to correlate with seismic SEG-Y data collected in the area of the well to correct seismic times to reflect actual depth of formations as indicated on the well logs. These will allow corrected SEG-Y times to make bulk-shifts and correlate all seismic lines of the basin resulting in mapping surfaces that are at the correct time/depth. This will then permit computation of accurate depths of coal and coal subcrops within the basin to create maps to identify the areas of shallowest coal depths that may have the greatest coal mining potential. These areas will then be targeted for more intensive exploration and possible field operations.

**Exploration activities during the reporting period**

In this first year of work, we have studied a wide area of the western portion of the Pedirka Basin so as to establish the geological framework of the Purni Formation coals. However, no field activities were undertaken on EL 24918 during the annual reporting period ending 7 September 2007.

We have undertaken an intensive literature search to find all available information on the Pedirka Basin and its unit of interest. The literature contains far less information on this area of the Pedirka Basin or any details about the Purni Formation and its coals in this region.

Tri-Star investigated available information on all drilling done in the Pedirka Basin and in the tenure area. It was found that no petroleum wells have been drilled in the northern Pedirka Basin and none in the area of EL 24918. Additionally, although various water bores have been drilled in the region and within the area of the tenure, no water bores were identified that were drilled deep enough to intersect the Purni Formation to provide any coal depth information. It was found that the water bores either had limited information available or only accessed the aquifers of the Eromanga Basin.

Tri-Star has developed a base map of existing seismic lines within the Pedirka Basin. The investigations during the reporting period determined that there are at least four separate seismic surveys from the 1960s and 1980s that have seismic lines occurring, at least in part, on the tenure. It appears that there may not be any seismic data available for many of these lines, including paper sections. A more exhaustive search is in progress to locate the seismic data from these lines to assist in the mapping of the Permian coal seams. Figure 5 provides a map of the available wells and seismic lines in the area of the tenure and the region in general.

The office-based activities that were commenced on EL 24918 during the reporting period contributed towards but did not complete a comprehensive evaluation of the potential of the permit area. Further work will be necessary to understand the coal potential of this tenure. This will be carried out in the next tenure year.
Activities on EL 24918 for next 12 month period

Office investigations will continue to determine the location of the Purni Formation subcrop edge in relation to the tenure. The gathering of seismic and well information from the Northern Territory and South Australian on the entire Pedirka Basin will be completed during the second year.

The inclusion of this information into Tri-Star’s mapping system may provide some further clues to the location, depth and extent of Permian coals in EL 24918 and adjacent tenures.

Field activities may be required to provide sufficient new information to map the Pedirka Basin coals in this tenure and region. A decision will be made later in the second year on whether to conduct a mini-sosie geophysical survey on this and adjacent tenures to identify the coal parameters. This information would then be tied into that already obtained and planned to be gathered in Tri-Star’s mapping system.

A decision will be made by second year’s end on the relinquishment area of EL 24918 and adjacent tenures to reduce the area by 50% as required by legislation. The information gathered and interpreted in the former activities will support this relinquishment area selection.

Reports lodged for EL 24918 during the reporting period

No reports for EL 24918 were lodged during the year ending 7 September 2007. Tri-Star believes that there were no reports that were required to be lodged during this period.

Conclusions

Tri-Star Energy Company did not conduct any field operations on EL 24918 during the reporting period and all studies were office-based and conducted in Brisbane, Australia and Houston, Texas, USA.

A literature search found useful information on the Pedirka Basin but many of the reports did not relate to this region of the Pedirka Basin.

The study of all available geological and geophysical data from previous drilling (including water bores) and seismic acquisition found that there were no petroleum wells drilled on EL 24918 but that there were a number of seismic lines present. Seismic data for many of these seismic lines were not readily available and Tri-Star has now instigated a comprehensive search in an attempt to find the seismic data to assist in the mapping of the coals. No useful information was found from the water bores drilled on the tenure as they were completed in Eromanga Basin aquifers and were too shallow to intersect the Purni Formation.

Further work is required to determine the location and extent of the Permian coals of the Purni Formation. A mini-sosie geophysical survey may be required to provide the necessary information on the coals within EL 24918 and also assist in delineating a 50% relinquishment area for this tenure.
Bibliography


