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ASX: NWE

12 November 2010

ASX Announcement

Norwest endorses AWE's view of shale gas potential of the Perth Basin

Norwest (ASX: NWE) endorses the view that A W E Limited (ASX: AWE) has for the shale gas potential of the Perth Basin announced by the company On 9 November 2010.

NWE also shares the same view of AWE that *"the commercial drivers in the Perth Basin could allow this shale gas opportunity to provide Australia's first commercial venture in the growing global phenomenon of "unconventional" Shale Gas production."* In fact Norwest has had such a view since the early part of 2010 which has been reflected through its asset dealings in EP413 during the course of 2010.

Norwest has announced on several occasions that the Perth Basin is located in close proximity to the Dampier to Bunbury, and Parmelia gas pipelines that feed the South West domestic market. There is strong demand for gas in the Western Australia market that is underpinned by a domestic gas price of \$8 or more, per thousand cubic feet (mcf) all of which augers well for Perth Basin shale gas players.

The AWE announcement refers to the overall acreage equity of AWE in the Basin including EP413.

Importantly Norwest currently holds a 55.606% interest in EP413 that is one of the key permits in the Basin. Norwest is the operator of the EP413 joint venture. AWE holds a 44.252% interest with the remaining 0.142% being held by a private party.

Norwest has an agreement with Indian Government explorer Bharat PetroResources Limited to earn 50% of Norwest's 55.606% interest by providing \$10m in exploration and drilling funds to drill a well on the permit to evaluate the shale gas potential.

NWE CEO Peter Munachen said that Norwest shareholders are well positioned to exploit the potential upside of a major shale gas discovery.

"Norwest has the acreage and the funding. With a highly prospective permit, and with Bharat PetroResources as a farm-in partner, we see this as a company making opportunity. Success here will have a significant and material impact on Norwest," Mr Munachen said.

The geology of EP413, consistent with the geology of the Perth Basin, contains the important three shale sequences that AWE refer to in their announcement, the Carynginia, the Kocatea and the Irwin River Coal measures (Fig 1).

Norwest's review of the data suggests that around 40% of the total EP 413 permit area of approximately 125,000 acres, has the potential for the presence of shale that have the right characteristics to produce gas. (Fig 2)

In the 1960's Arrowsmith -1 well drilled in EP413 and located 25kms from Woodada Deep - 1, was estimated to produce gas at rates as high as 4 million cubic feet per day from the Carynginia without fracture stimulation, before subsequently declining.

Norwest as operator together with AWE intend to drill Arrowsmith – 2 in Q2/2011 to test the potential of the shale in the Arrowsmith area. (Fig 3)

The company is in advanced discussion with Weatherford to contract Rig 826 (subject to availability) to drill Arrowsmith-2, aimed at commencing in April 2011.

Peter Munachen
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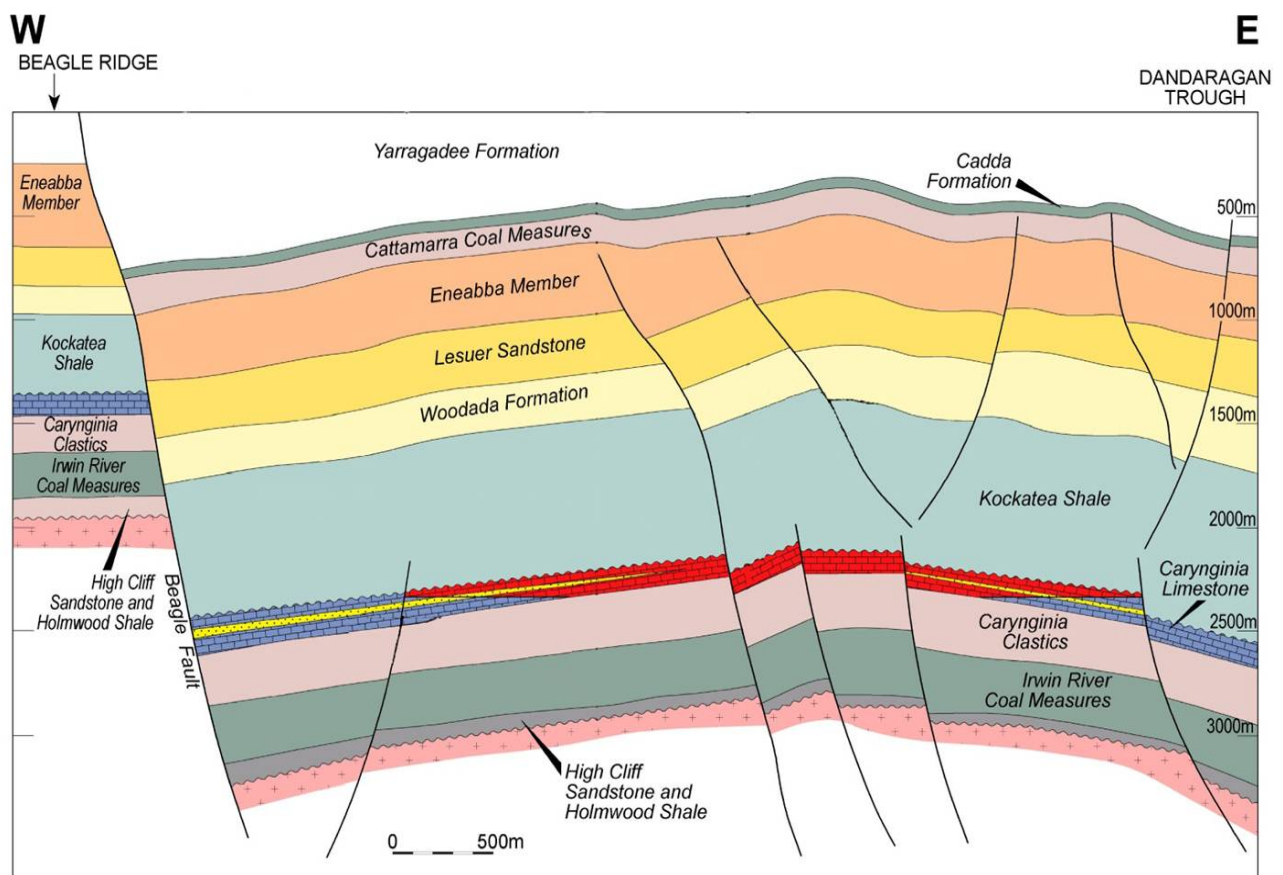
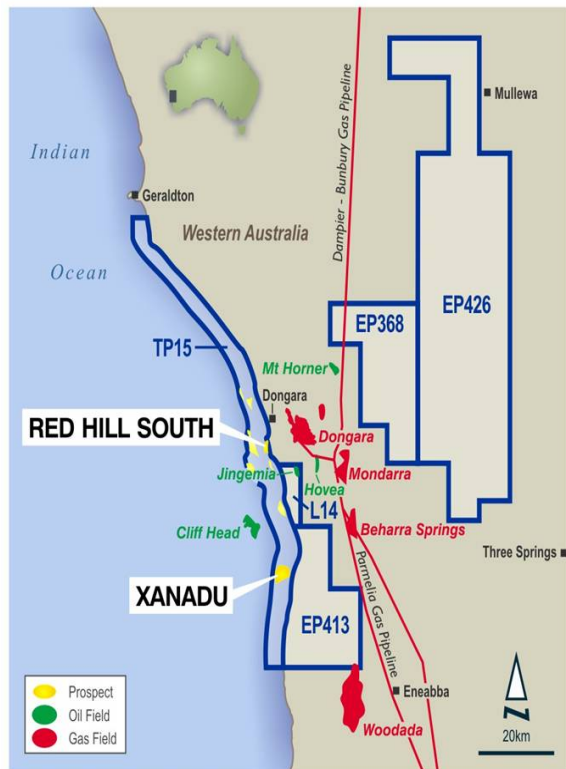


Fig 1 – Perth Basin Cross Section demonstrating – Kockatea, Carynginia and Irwin River Coal measures shale sequences



TP 15 Leads & Prospects	Potential (million barrels)	
	In Place	Recoverable
Capel	134	40
Smithbook	74	22
Xanadu	90	28
Red Hill Sth	34	9
Baldivis	24	7
Rosabrook	10	3
Metricup	7	2
Total	373	111

Permit	Gross Acres	Net Acres
EP368	148,337	29,667
EP426	583,168	116,634
EP413	125,603	69,710
L14	9,835	620
TP15	159,580	159,580
Total	1,026,524	376,211

Fig 2 – Norwest’s project interest and acreage – Perth Basin

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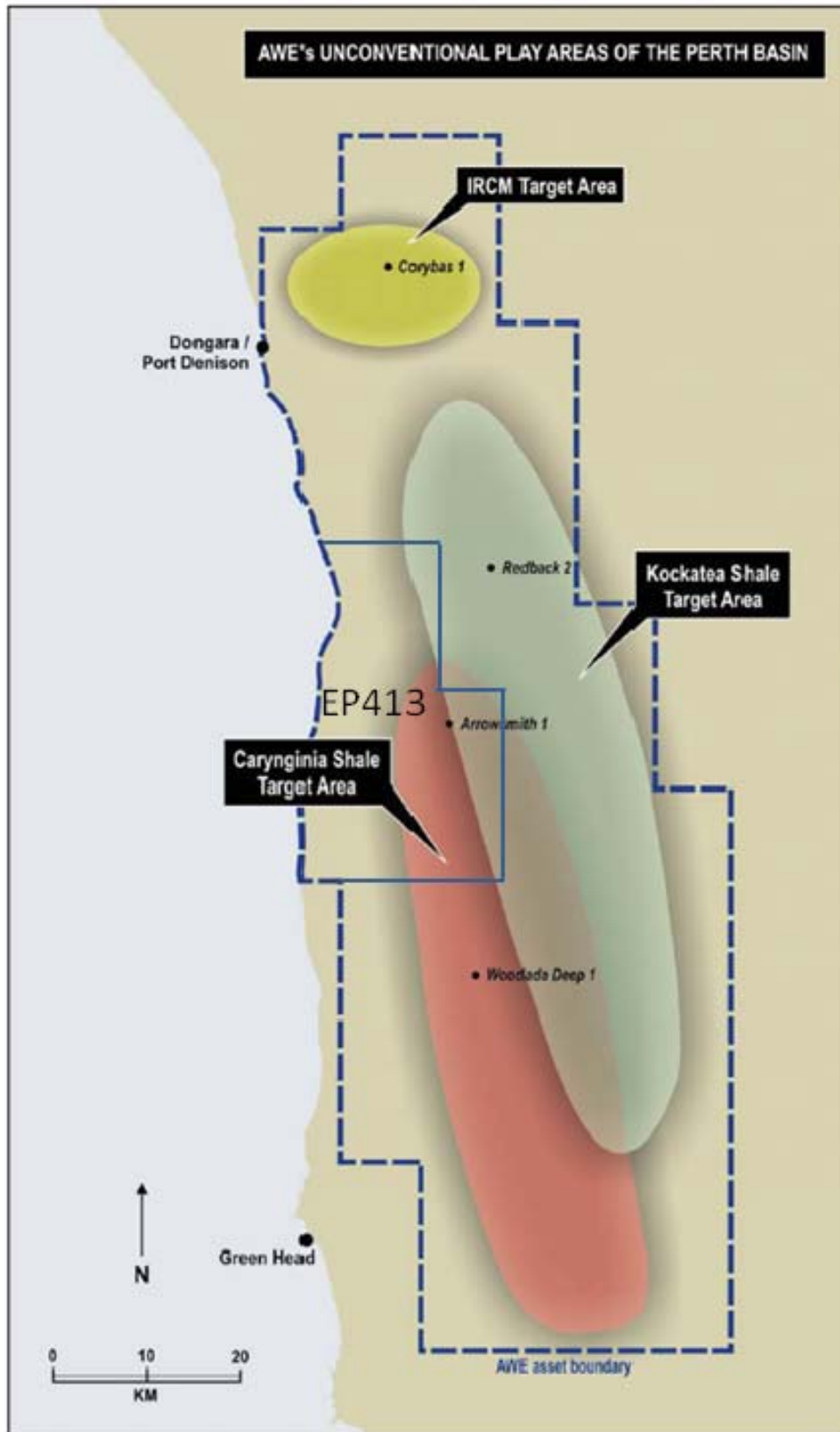


Fig 3 - EP413 permit location in relation to AWE stated permit boundaries.

Attachment

ASX Announcement
November 9, 2010



AWE announces 13-20 Tcf Gas in Place in its Perth Basin Shale Gas acreage

AWE Limited is pleased to report on the significant progress made in assessing the potential of the Perth Basin Shale Gas play. The assessment has now identified a very large potential gas resource in one of three key shale sequences in AWE's acreage holding in close proximity to one of Australia's key domestic gas markets.

In particular, following the analysis of the Woodada Deep-1 core results, AWE estimates that the middle interval of one of these shale intervals (the Carynginia Shale) alone holds a gross Gas in Place of 13-20 trillion cubic feet (Tcf).

AWE now holds a position in approximately 1 million gross acres of prospective Shale Gas acreage in the Perth Basin (620,000 net acres), with high levels of equity in the majority of the permits and licences. **Importantly, AWE also operates the majority of this prospective acreage, and will therefore manage the pace of future activity across the prospective play.**

The Perth Basin Shale Gas Opportunity

AWE has been reviewing the prospectivity of shale gas in the Perth Basin area for the past 2 years, and has substantially progressed the understanding of the potential in the region.

Initial core analysis from the Woodada Deep-1 well taken earlier in the year has highlighted the potential of the middle interval of the Carynginia Shale, where its characteristics are comparable to some productive shale units in the USA.

Further work will be required to ascertain the commercial viability of these shales within the Perth Basin. However, AWE is encouraged by the progress to date and plans to aggressively pursue further investigations on these opportunities.

Importantly, the commercial viability is substantially assisted by the proximity to existing infrastructure and the strong prevailing demand for, and pricing of, gas in the WA domestic markets.

In AWE's view, the strong commercial drivers apparent in the Perth Basin could allow this Shale Gas opportunity to provide Australia's first commercial venture in the growing global phenomenon of "unconventional" Shale Gas production.

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Background on the Perth basin Shale Gas Opportunity

AWE has defined three different Shale Gas targets in its Perth Basin acreage: the Carynginia Shale, Kockatea Shale and the Irwin River Coal Measures.

1. Carynginia Shale

Following a review of historical well data in the area, the Carynginia Shale was initially identified as the primary Shale Gas target in the Perth Basin. Further literature research, past wireline logs, core and well cuttings, along with AWE's experience from production operations in its Shale Gas acreage in the USA (Eagle Ford Shale leases), were used to confirm the significant potential.

In April 2010, AWE undertook a coring and logging program across the Carynginia Shale in the Woodada Deep-1 well. The Carynginia Shale in this area is over 280 metres thick and in the target area ranges from depths of 2,500 to 3,500 metres. The Carynginia Shale has three distinct intervals, and a core was taken in each of these intervals in the Woodada Deep-1 well. Typically a fracture stimulated horizontal well would only access a gross 100m interval, so the objective was to determine the optimal intervals for further appraisal.

Specific logging tools designed to measure shale parameters were also run in the well. Upon retrieval of the cores, significant quantities of gas were desorbed from each of the cores, supporting the view that this shale contains gas. Compositional analysis has shown gas samples from the core to be dry gas, predominantly consisting of methane and small quantities of ethane, liquefied petroleum gas and carbon dioxide.

Core analysis was undertaken at the TerraTek laboratory in Salt Lake City, recognised experts in the field of Shale Gas analysis in the USA. From this work, the middle interval of Carynginia Shale was high graded as a target for further evaluation as it has ideal fracture stimulation parameters and a log signature analogous to some productive gas shales in the USA.

By correlating the core analysis with log data from the existing wells, AWE estimates that this this middle interval of the Carynginia Shale may hold Gas in Place of 13-20 Tcf within AWE's acreage holdings. The US shale industry estimates recoveries of greater than 20% of Gas in Place and therefore in the event of successful flow testing, the recoverable reserve potential of this key area could be higher than 4 Tcf of gas.

This gas potential of the middle interval is further supported by a drill stem test in the Arrowsmith -1 well located 25 km from Woodada Deep-1 in the EP 413 permit. This test was estimated to produce gas at rates as high as 4 million cubic feet per day without fracture stimulation, before subsequently declining.

From the results of the Woodada Deep-1 core data, the Carynginia Shales of the Perth Basin demonstrate a reasonable correlation with successful commercially developed USA shales, based on a number of key parameters, particularly depth, target thickness and mechanical (ability to fracture) properties. In the case of other parameters, particularly porosity and total organic carbon content, the Carynginia Shales have modest properties at this location. Geological studies are underway to assess the play fairway of Carynginia shales where these properties might further improve commercial returns.

	United States Shale					Perth Basin
	BARNETT	WOODFORD	MARCELLUS	EAGLE FORD	HAYNESVILLE	CARYNGINIA (middle unit)
Depth, Top (m)	2,000	1,800	1,200	2,700	3,200	1,600
Depth, Bottom (m)	2,600	3,400	2,600	4,000	4,100	3,200
Thickness (m)	30-180	35-70	15-60	30-90	60-70	60-90
TOC (%)	4.5%	1-14%	3-12%	3.0-4.7%	3-5%	1-4%
Total Porosity (%)	4-5%	3-9%	10%	4-6%	9%	3-6%
Young's Modulus (psi x 10 ⁶)	1.6-6.5	4.0-6.0	3.7-5.0	0.6-2.2	3.3-4.0	3.0-5.0
Poisson's Ratio	0.21-0.27	0.10-0.30	0.20-0.26	0.22-0.26	0.24-0.26	0.13-0.23

Comparison of Carynginia Shale with some in US

The upper and lower cored intervals of the Carynginia Shales were proven to have higher clay contents than seen in successful US shales. However fracture stimulation properties were very good and these intervals will be further evaluated in future wells as secondary objectives.

Importantly, the results of the work undertaken in the Woodada Deep-1 well are not seen to exclude the potential of the shales across the entire acreage holding.

AWE is currently working with the operator of the EP 413 (AWE 44.14%) permit to design a well to test the potential of the shales of the Arrowsmith area. It is planned to drill this well during the 2nd quarter of 2011.

AWE is also undertaking planning for a test fracture stimulation of the middle Carynginia Shale, which was cored in the Woodada Deep-1 well. This stimulation work is planned for 2011.

2. Kockatea Shale

The Kockatea shales are extensive across the basin and up to 600 metres thick in AWE's acreage. These shales are the proven source rocks for the oil & gas fields in the Perth Basin. The initial work by AWE highlighted a 50 metre target interval with higher organic content in this shale that exhibited properties that might support Shale Gas production.

In May 2010, AWE participated in the drilling of the Redback-2 exploration well, a conventional gas exploration well in Permit EP 320/L11. The joint venture undertook a coring program over the target interval of the lower section of the Kockatea shale in the well to assist in understanding the nature and characteristics of these shales in the area. Although gas was desorbed from the core, subsequent analysis appears to indicate that the high clay content in the cored Kockatea section may be detrimental to effective gas recovery.

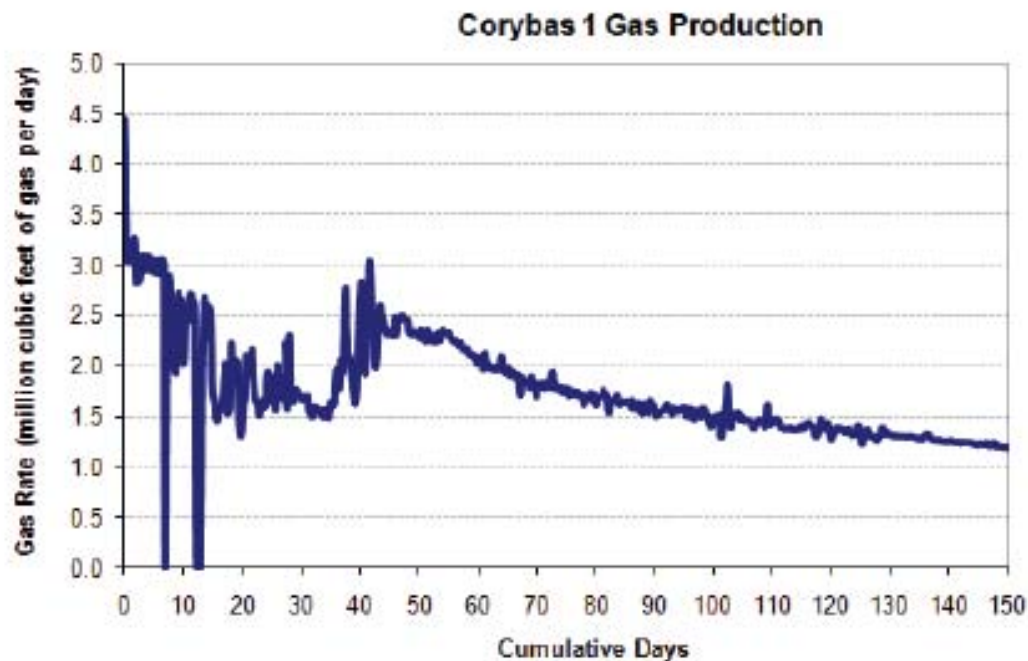
However, AWE is currently undertaking geological studies to determine the extent of the oil, wet gas and dry gas windows on the Kockatea Shale for high-grading more prospective areas within AWE's acreage.

3. Irwin River Coal measures

The third zone of interest in the Perth Basin is the Irwin River Coal Measures, a formation that contains both Shale Gas and tight Sandstone Gas targets.

Well data confirms that the Irwin River Coal Measures extend across the entire North Perth Basin and are recognised to generate gas. This formation had previously been disregarded as a commercial conventional target, as the formation was considered too tight to produce commercial quantities of gas. However in 2009, AWE fracture stimulated the vertically-drilled Corybas-1 well (AWE 50%) to test this formation as an "unconventional" play.

In April 2010, the well was connected to the Dongara processing facility and began producing at initial rates over 4 million cubic feet of gas per day. At end October 2010, the well was producing at a commercial rate of 1.2 million cubic feet per day. (See Chart)



The results of this flow test are very encouraging and support the view that an optimally designed fracture stimulation will liberate commercial gas flows. AWE believes that the implementation of best completion practices, drilling horizontal wells which are multi staged fracture stimulated, could achieve significantly higher production rates and recoveries.

In light of these results, AWE has undertaken a reinterpretation of the existing seismic with the main aim of this work to assess the gas resource potential of Corybas and nearby structures, and identify follow up drilling opportunities. Further seismic acquisition is under consideration, whilst the joint venture is also discussing further development options.

Next Steps

AWE expects to complete incorporation of the detailed core analyses into its comprehensive geological models for all three Shale Gas targets in the Perth Basin in the first quarter of 2011.

These models will high-grade target areas for undertaking a drilling campaign from the middle of 2011, encompassing a significant coring and logging program to fully appraise the extent of three targets across AWE's acreage and most importantly, to enable the design and implementation of horizontal well fracking programmes to establish production rates to support subsequent commercial development.

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Reserves and Resources

The reserve and resource information contained in this report is based on information compiled by Leigh Brooks (General Manager, Exploration) and Ian Palmer (General Manager Development). Mr Brooks is a petroleum geologist, holds a Bachelor Degree in Science, and has 36 years experience in petroleum exploration. Mr Palmer holds a Bachelor Degree in Engineering and has 29 years experience in the practice of petroleum engineering.