

# MEETING MINUTES



MINUTES OF: Arrow Surat Community Reference Group  
 HELD AT: Dalby RSL  
 DATE: 12 September 2013  
 COMMENCEMENT TIME: 9:40am

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| <b>PRESENT:</b>    | <p><b>ATTENDEES:</b><br/> <b>Leisa Elder</b> – Vice President Community and Sustainable Development<br/> <b>Tony Knight</b> – Vice President Exploration<br/> <b>Simon Gossmann</b> – Groundwater Manager<br/> <b>Tania Marshall</b> – Community Officer<br/> <b>Ian Hayllor</b> – Landholder<br/> <b>Geoff Hewitt</b> - Landholder<br/> <b>Graham Clapham</b> – Central Downs Irrigators Ltd<br/> <b>Cr. Ray Jamieson</b> – Councillor, Western Downs Regional Council (joined meeting 10:30am),<br/> <b>Cr Charlene Hall</b> - Councillor, Western Downs Regional Council (joined meeting 11:25am)<br/> <b>John Hughes</b>, Project Officer, CSG Compliance DNRM<br/> <b>Cr Nancy Somerfield</b> - Councillor, Toowoomba Regional Council (joined meeting 10:15am)</p> <p>MINUTES: <b>Tania Marshall</b> (Secretary)</p> <p><b>APOLOGIES:</b> <b>Matt Paull</b> (APPEA), <b>Jordan Peach</b> (ALFA), <b>Anna Stephenson</b> (USQ), <b>Carolyn Collins</b> (Arrow), <b>David Hamilton</b> (BSA), <b>Marie-Louise Offner</b> (Cotton Australia), <b>Sarah Due</b> (AgForce)</p> |
| <b>CHAIR:</b>      | <b>Leisa Elder, Vice President Community and Sustainable Development</b>  |
| <b>DISCLOSURES</b> | None recorded   |

|               |  | ACTION/SUGGESTIONS                         |
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| <b>ITEM 1</b> | <p><b>SAFETY MOMENT</b></p> <p>Geoff Hewitt presented a safety moment on the hazard caused by the effluent which comes from stock being transported on trucks without effluent tanks. Geoff explained his own experience after having an accident on his motorbike after losing traction in stock effluent on the highway. GH will undertake further research on this issue, in particular the risk of air-borne disease (e.g. Q-Fever) that may be spread in the spray from cattle trucks.</p>  |  |
| <b>ITEM 2</b> | <p><b>Minutes of previous meeting</b></p> <p>Minutes were passed and agreed.</p>   | <b>TM will add Minutes to the web site</b> |
| <b>ITEM 3</b> | <p><b>Update of Actions</b></p> <p>1. <b>TM to add Minutes from 13 June meeting to Arrow website</b></p> <p><b>TK to provide information on exclusion zones around high-pressure gas pipelines</b> A short presentation on current regulatory and design considerations in high-pressure pipeline location and construction. Key points:</p> <ul style="list-style-type: none"> <li>- There are no current statutory or code requirements establishing minimum distance from housing (due to need to transport through and/or deliver gas to residential areas)</li> <li>- That approach to location was based on reducing risk to “as low as reasonably practicable”.</li> <li>- That industry standard practice for high pressure pipelines was to maintain a reasonable separation, nominally 200m</li> </ul> <p>RJ queried the expected life of a pipeline. DM advised that the expected operational life of pipeline was at least 100 years<br/>                 GH queried whether there was an exclusion zone around low pressure gathering lines. TK advised that this would be determined by a risk based assessment.</p> |  |

2. **TK to present an update on how Lake Broadwater is considered in Arrow's management processes (e.g. EIS, EMP etc.)–**
  - A short presentation based on extracts from the Arrow supplementary report to the Surat Gas Project EIS, providing detail on management of Lake Broadwater.
  - . CH queried who monitors the water that reaches the lake. TK advised that in Arrow's EIS there are management measures that Arrow is required to undertake, backed by internal and external audits (e.g. from DEHP) to ensure compliance..
  - IH suggested that Council visit the Arrow sites neighbouring Lake Broadwater to get a better understanding of Arrows operations and site management.
  
3. **CW will report back on request to make soil testing results available**
  - Not completed at this stage and still a work in progress
  
4. **TK will look at how data from Theten Farm can be represented so that it can be peer reviewed**
  - Not completed at this stage and still a work in progress
  
5. **JS will present information on the stage of the Theten BU trial and future plans at next meeting.**
  - Not completed at this stage and still a work in progress
  
6. **TK will clarify legal limitations on directional drilling close to property boundaries**

**A short presentation on the legal basis of access to mineral and petroleum resources was shared, with main point being that landholders do not have an exclusive right to mineral or petroleum (which are reserved to Government).**

**Stuart Armitage (attending joint session with AIFLC) questioned this matter further. Subsequent clarification on this matter by the GasFields Commission, and as posted on the Cotton Australia website states:**

  - *Cotton Australia also queried the Commission about Conduct & Compensation Agreements (CCA), particularly as they applied to directional drilling (i.e. horizontal drilling begun from a site which accesses resources under adjacent properties). The Commission clarified that CCAs only apply to surface issues. However, where drilling activity creates a compensatable effect on a neighbouring property, that landowner may seek compensation from the petroleum authority holder (after establishing the compensatable effect)*
  
7. **CC will show information on how quality of water is also tested and addressed in assessments of landholder bores and Make Good agreements**
  - **SG clarified that make good provisions include water quality as well as quantity**

**ITEM 4 Presentations delivered to joint assembly of ASCRG and AIFLC**

1. **Daleglade Water Connectivity Trial update –**
2. **Core information – TK provided an overview of the Daleglade water bore drilling and completion program**
3. **Groundwater -**

SG provided information on:

  - Baseline assessments
  - Bore assessments and make good agreements. Bores are

assessed for water volume and quality. Alternative water supply through make good agreements has to be of a comparable quality.

- Groundwater monitoring as part of the Underground Water Impact Report

GC asked if landholders are given the assessment information. Simon advised that both the Office of Groundwater Impact Assessment (OGIA) and the landholder are provided with the assessment information.

Connectivity of aquifers was discussed. Simon Gossmann advised that both horizontal and vertical connectivity is being assessed.

#### 4. Gas Migration -

TK provided an update on gas migration investigations underway, in particular:

- The Origin Energy investigation into gas bubbling in the Condamine River.
- Broader industry investigations in gas migration (being conducted by the CSIRO Gisera centre)
- An update on how submissions around gas migration are being addressed through the supplementary EIS process
- The Queensland Health study of the Tara region
- Industry and Government response to the borehole fire incident in August 2012
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IH asked if it was possible for gas migration to cause an explosion. TK explained that explosion from gas migration in an unconfined space was almost impossible as methane concentration needs to be between 9-14%. As methane is very light it dissipates very quickly. Graham Clapham asked if there was work being done on gas migration through bores. Tony Knight advised that Arrow were working on this internally. Ray Jamieson asked if there was any interest in tight gas (being the name of another form of unconventional gas). Tony Knight advised that Arrow were only interested in CSG.

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#### ITEM 5 Tenure Update

1. Tenure Update – TK presented a map showing Arrow's current exploration (ATP) and Petroleum Lease (PL) holdings in the Surat Basin, together with current or future areas that will be subject to application for Petroleum Leases.
2. It was noted that the area of current and proposed future PLs is smaller than the Surat Gas Project area, which has shrunk due to ATP tenure relinquishments.

#### ITEM 6 Any other business

1. Regional Planning  
GC  
GC put forward for discussion three remaining issues he considers essential to coexistence between agriculture and CSG development, particularly in the Condamine Alluvium floodplain [ note that GC distributed an email to attendees soon after the meeting, and the points below are taken from that email]:
  1. Do it here [on the floodplain] last.....
  2. Give the landholder some say...
  3. Condition groundwater impact.....

**LE to provide Arrow response (Actioned on 9 Oct, 2013)**

There was extensive discussion on these proposals, with particular regard of the need to submit responses to the Regional Planning process before 20 September.

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|               | <b>SCL – a question was raised whether Arrow was exempt from SCL provisions. While no-one present from Arrow had the requisite legal knowledge to provide a definitive answer, it was taken as an action to report back on next meeting. The initial sense from those most attendees present was that Arrow was not exempt, but will be clarified.</b> | <b>LE to clarify if Arrow is exempt from SCL</b> |
| <b>ITEM 7</b> | NEXT MEETING   |  |
|               | To be confirmed - 12 December proposed due to committee members being unavailable in November.   |  |
| <b>ITEM 8</b> | CLOSE  |  |
|               | 12 noon  |  |

There being no further business, the meeting was closed at 12 noon.

CONFIRMED AS A TRUE AND CORRECT RECORD.

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Chairman