

MEETING MINUTES



MINUTES OF: Arrow Surat Community Reference Group
 HELD AT: BMO, Dalby
 DATE: 28 August 2014
 COMMENCEMENT TIME: 9:30am

PRESENT:	ATTENDEES: Leisa Elder – Vice President Community and Sustainable Development Tony Knight – Vice President Exploration Dave Munro – Front End Development Manager Simon Gossmann - Groundwater Manager David Hamilton – Basin Sustainability Alliance Ian Hayllor – Landholder Graham Clapham – Central Downs Irrigators Ltd Geoff Hewitt – Landholder John Hughes , Project Officer, CSG Compliance DNRM Cr Nancy Somerfield - Councillor, Toowoomba Regional Council (joined meeting 10:15am) Jordan Peach – Australian Lot Feeders Association, Mort & Co Matt Paul – APPEA
	MINUTES: Tania Marshall (Secretary)
	APOLOGIES: Carolyn Collins – Manager Water Michael Murray – Cotton Australia Cr Ray Jamieson – Councillor, Western Downs Regional Council (joined meeting 10:30am), Cr Charlene Hall - Councillor, Western Downs Regional Council (joined meeting 11:25am) Randall Cox - OGIA Ian Heiner – DNRM Mary O'Brien – Cotton Australia Anna Stephenson – University of Southern Queensland
CHAIR:	Leisa Elder, Vice President Community and Sustainable Development
DISCLOSURES	None recorded

		ACTION/SUGGESTIONS
ITEM 1	Welcome & Quorum achieved	
ITEM 2	Safety moment Leisa Elder presented the safety moment on the dangers of texting while driving. Showed a YouTube video prepared by Volkswagen to highlight the risk and consequences.	
ITEM 3	Minutes of previous meeting Minutes were passed and agreed.	TM to add Minutes to the web site
ITEM 4	Joint session with AIFL Committee - Presentations 1. Lone Pine Interconnectivity Drilling Update – Simon Gossman Simon Gossman provided a presentation on the Lone Pine Interconnectivity Trials being conducted on Graham Clapham's property. <ul style="list-style-type: none"> The presentation gave an overview of works to date, which are not yet fully complete, including well construction details, planned testing program, and summary of early findings. Emphasis was made that the connectivity trial is part of a larger program of research, and that the 30 day drawdown is just part of a suite of tests both locally and regionally, including Carn Brae a significant site nearby which will also evaluate any connectivity. Simon Gossmann pointed out that unlike the Daleglade Trial, the Lone Pine Trial will target a deeper coal seam (~150m) as part of the pressure monitoring program, to provide a more realistic indicator of depth at which gas production would occur. Ian Hayllor noted the thickness of interval between base of Tertiary Sands layer (at base of Condamine Alluvium) to top of shallowest coal seam, which in combination with cased and cemented hole, will provide added protection to the Condamine Alluvium (i.e. greater separation between producing zone and Condamine Alluvium) Graham Clapham noted the importance of long term monitoring in order to provide a true test of lateral and vertical impacts on water levels and pressures. In this too, Graham noted that the Condamine Alluvium is 	

irregular in thickness, and positioned close to or incised into the coal measures in some areas...

- Simon Gossman stated that the connectivity research is more than a 30 day pump test. Carn Brae is a significant site nearby which will also evaluate any connectivity.

2. Surat Update – Dave Munro

Dave Munro provided an update on the Surat Projects – Surat Gas Project and Daandine Expansion Project

- David Hamilton questioned if AE were planning to relinquish tenement.
- Tony Knight advised that non-core tenement may be relinquished in areas to the west of Tipton and to the north and west of Wandoan and south of Millmerran.
- David Hamilton questioned if tenement was relinquished by AE could another proponent take on the tenement.
- Tony Knight advised that it was possible. The Qld Government goes through an exploration authority release process once per year, depending on whether there are areas available for release (and which are awarded via a process which includes a cash bidding component).
- David Hamilton asked where an area is converted from ATP to PCA does this alleviate the need to do works on the area.
- Tony Knight advised that the tenement holder is still required to do two work programs as part a PCA declaration – one commercial and the other technical. Further, any work, expenditure and other (e.g. environmental) obligations to the underlying ATP tenure remain..
- Graham Clapham stated that this creates another level of uncertainty for Landholders.
- Tony Knight advised that whether a site is under a PCA or PL the area is considered to have potential (i.e. a PCA is acknowledgement the area has commercial potential, hence it is primarily market conditions that determine if and when it might be converted into a production tenure)

Daandine Expansion Project -

- Graham Clapham asked if DXP (Daandine Expansion Project) is what is currently referred to as the Dalby Expansion Project.
- Simon Gossman advised that answer was no, and that the Dalby expansion project referred to a proposal to group a number of PL's under a common environmental authority.
- David Hamilton asked about gas flaring from wells in the region. He had heard about flaring west of Dalby and wanted to know if it was AE and why this was done.
- Graham Clapham asked if you could just turn off a well and not require flaring.
- Tony Knight advised that for safety reasons and so there is no delay in production a well is not turned off, production may be slowed but not stopped. However it is possible to turn off a well.
- Ian Hayllor advised that QGC were currently flaring. IH also suggested that a fact sheet be created to explain flaring.
- Geoff Hewitt asked if there was any way to collect the gas instead of flaring.
- Ian Hayllor stated that flaring was raising concern with the public and when flaring is being undertaken by any company they should advertise that this is being done.
- David Hamilton stated that if the community aren't advised that this is to occur then it would be on the news.
- Ian Hayllor asked what pressure is in the pipelines.
- Dave Munro to confirm pressure

Well spacing –

- Dave Munro discussed multi-well pads. Advised that these well pads can go up to about 9 wells per pad.
- John Hughes asked what the area of the pad was and how much land would be saved.
- Dave Munro advised that multi-pad wells would be approx. 100m x 200m for a 9 well pad, where a single well pad was 100m x 100m. Dave Munro advised that there would be approximately a 10% expansion in the well spacing.
- Discussion ensued regarding the starting point of well spacing. Dave Munro advised that well spacing differed depending upon the coal seam depths. Dave Munro stated that spacing would start at about 800m for deeper coals and up to around 1.5km for shallower coal.
- Ian Hayllor asked if a well can be started at direction from the surface. Dave Munro advised this was possible however the pad size would be larger and the process more expensive.

Create a fact sheet on flaring.

Dave Munro to confirm pipeline pressures and advise

Dave Munro – to provide greater clarity on what the “10%” increase in well spacing means in on-the-ground terms, and against what baseline?

	<p>Water -</p> <ul style="list-style-type: none"> • Simon Gossman advised that water production was less than stated in the EIS. Previous estimates were far too conservative. UWIR forecast is updated every 3 years. The new estimate is due in 2015. • Graham Clapham questioned if well spacing increased will less water be extracted. • Dave Munro advised that the same amount of water would be extracted. 	Simon Gossmann – to provide more detail on the reductions in scale of water impacts (given the importance of this item to the community)
ITEM 5	Site Rehabilitation Update	Tony Knight
	<ul style="list-style-type: none"> • Tony Knight provided an overview of the requirements and processes involved in well and dam decommissioning and site rehabilitation. • Rehabilitation schedule is set out in the environmental authority. • Ian Hayllor asked if the ground pits used during drilling were contaminated. TK advised that monitoring occurs and if needed more is dug out of the pits. • Graham Clapham asked if the pits were on the contaminated land register. Tony Knight advised they were not. • Ian Hayllor suggested to provide more information on the process of assessment • David Hamilton wants to know the standard of rehabilitation. It was also noted that no coal mine has been able to rehabilitate the site to full prior production. • Ian Hayllor asked what the long term plans for pipelines were. Tony Knight advised they were to remain in situ below ground. • David Hamilton asked how coal exploration wells were plugged. Tony Knight advised that the requirements were set out in regulation, and that the best way to achieve full compliance and minimise risk was to simply fill them from base to top with cement slurry. • David Hamilton asked if the land was restored back to original purpose how was that measured. 	Tony Knight took question on notice to provide response
ITEM 6	Gas Emissions	Tony Knight
	<ul style="list-style-type: none"> • Tony Knight gave a presentation on gas emissions including an update on research findings by Government and Industry. • Ian Hayllor noted that bubbles in the Condamine River had been occurring for many years, but wasn't considered in any EIS prior to production. • Matt Paull from APPEA stated that bubbles had been recorded as early as 1893 at Eagle Farm in Brisbane. Research was being conducted in to what was the source and then maybe look at what needs to be done to address this. • Graham Clapham noted concern for alluvium bore owners as some bores already produce gas and wanted to know if that would be enhanced. • Ian Hayllor stated that when describing gas emissions in layman's terms he preferred not to use a number of cows but possibly something like the amount of gas required to cook a number of eggs. • Geoff Hewitt noted that no data that was shown in the research was collected near feedlots. • Nancy Somerfield wanted to know what the methane reading around feedlots was. 	Provide research data on feedlot emissions.
ITEM 7	Theten Research Update	Tony Knight
	<ul style="list-style-type: none"> • An update on the wet weather access technology trials was provided • Graham Clapham noted that Cecil Plains black soil would produce different results. 	
ITEM 8	Any other business	
	<ul style="list-style-type: none"> • Ian Hayllor suggested Arrow prepare fact sheets on rehabilitation, flaring and gas migration • Ian Hayllor wanted to know AE's plans for salt from Daandine Brine dam. Leisa Elder stated it was preferred that an industry wide solution be determined. • Geoff Hewitt wanted to know the mL treatment capacity per day of the Daandine RO expansion. 	Dave Munro to confirm capacity
ITEM 9	Next meeting	
	TBC	
ITEM 9	CLOSE	
	11:45am	

There being no further business, the meeting was closed at 11:45am.

CONFIRMED AS A TRUE AND CORRECT RECORD.

Chairman