

MEETING MINUTES



MINUTES OF: Arrow Surat Community Reference Group (ASCRG)
 HELD AT: Inbound Brasserie, Toowoomba
 DATE: Thursday 21 November 2019
 COMMENCEMENT TIME: 9.40am

Present:	<p>Jane Walker – GasFields Commission Queensland John Hughes – Department of Natural Resources Mines and Energy Ian Hayllor – Chair of Resource Sector Interactions, AgForce Cr Nancy Sommerfield – Toowoomba Regional Council Scott Braund – Lot Feeders Association Simon Gossmann – Groundwater Manager, Arrow Energy</p> <p>Presenters: Leisa Elder – VP External Relations & Tenure Management, Arrow Energy Max Murray – Operations Manager Surat, Arrow Energy David Wolf – Project Manager, Off Plot, Arrow Energy Guy Young – General Manager, Surat Opportunities, Arrow Energy Chris Wicks – Senior Development Planner IFL, Arrow Energy Stephen Denner – Hydrogeology Team Lead, Arrow Energy David Wigginton – Produced Water Manager, Arrow Energy Brydie Hedges – Community Engagement Manager, Arrow Energy Jason King – General Manager Contracting Procurement & Logistics, Arrow Energy</p>
Apologies:	<p>Lee McNicholl – Basin Sustainability Association Graham Clapham – Central Downs Irrigators Ann Leahy MP – Member for Warrego Pat Weir MP – Member for Condamine Colin Boyce MP – Member for Callide Mayor Paul McVeigh – Western Downs Regional Council Matthew Paull – APPEA Rohan May – President, Dalby Chamber of Commerce & Industry Liz Edwards – Manager Community & Communications, Arrow Energy</p>
Chair:	Leisa Elder – VP External Relations & Tenure Management, Arrow Energy
Secretariat:	Rita Hassan – Senior Community Officer (Dalby), Arrow Energy
Disclosures:	None recorded

	Joint meeting – ASCRG & AIFL Committee	ACTION/ SUGGESTIONS
ITEM 1	<p>Welcome</p> <ul style="list-style-type: none"> Leisa Elder acknowledged apologies, welcomed attendees and thanked them for their contributions during the year. Leisa acknowledged Indigenous Elders past and present and emerging community leaders. Leisa welcomed and thanked Guy Young (General Manager, Surat Opportunities, Arrow Energy) for joining the meeting to present on the Surat Gas Project (SGP). 	
ITEM 2	<p>Safety moment – asbestos awareness – Max Murray</p> <ul style="list-style-type: none"> Asbestos Awareness Week (24-30 Nov) is to educate Australians about the dangers of asbestos in and around homes. Mesothelioma is a malignant tumour (cancer) caused by inhaled asbestos fibres. It forms in the lungs, abdomen or heart. Australia has the second highest mesothelioma death rate in the world behind the United Kingdom, predominantly linked to direct exposure during home renovations and maintenance. There have been high profile court cases about asbestos mining 	

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	<p>and manufacture.</p> <ul style="list-style-type: none"> • Asbestos fibres were used widely in building materials before the mid-1980s. • One in three Australian homes contain asbestos. Asbestos can be in many different building materials, including carpet linings. • Max Murray made note of a personal experience where he removed carpet lining that contained asbestos during a home renovation in New Zealand. • If left undisturbed, asbestos materials in good condition do not need to be removed. • Contact your local council to find out where you can dispose of materials containing asbestos, call SafeWork Qld or consult an asbestos removalist. • To mitigate risk when working with asbestos products, never: <ul style="list-style-type: none"> ○ create dust ○ break sheeting ○ work in windy conditions ○ use power tools or household vacuums, brooms, brushes, high pressure water ○ work on dry or friable asbestos. • Always decontaminate yourself before leaving the work area. 	
ITEM 3	<p>Arrow update – Leisa Elder</p> <ul style="list-style-type: none"> • Leisa noted National Agriculture Day was 21 November and referenced farmers struggling with on-going drought. • Arrow continued good progress in the Bowen Basin with 30 wells planned for the next few years. Leisa re-iterated her offer for committee members to visit Arrow’s operations in the north. • Arrow continued to work towards a final investment decision (FID), and continues to progress Area Wide Planning, Beneficial Use Network (BUN) planning, and definition of contract opportunities. • Arrow took the latest development plans to the community in September 2019 through community information sessions. • Leisa stated that it was reassuring to see people continue to attend community updates while Arrow prepares for the SGP to commence. • Arrow appreciates all feedback that is received through these sessions. 	
ITEM 4	<p>Operations update – David Wolf</p> <ul style="list-style-type: none"> • New major contractor CPECC/NACAPP has commenced operation, undertaking civil construction and pipeline installation across Arrow’s development fields in the Surat Basin. <p><u>Arrow solar power project</u></p> <ul style="list-style-type: none"> • Installation of solar panels at Arrow’s facility in Dalby will reduce electricity running costs and greenhouse gas emissions. • An 82kW system is being installed at Dalby, with a similar system installed at Arrow’s facility in Moranbah. <p><u>Hopeland Pilot pipeline</u></p> <ul style="list-style-type: none"> • Pipeline construction has been completed between Arrow’s six- 	

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	<p>well pilot and a third-party delivery point.</p> <ul style="list-style-type: none"> • The connection to the third party infrastructure will be scheduled. <p><u>Hopeland monitoring bores</u></p> <ul style="list-style-type: none"> • Two of eight groundwater monitoring bores have been drilled in the Petroleum Lease (PL) 253 area. <p><u>Daandine</u></p> <ul style="list-style-type: none"> • Seven of 15 planned wells have been drilled in the Daandine field; the additional eight wells will be drilled in 2020. • General well maintenance will occur in late 2019. • Activities may generate a temporary increase in traffic on Dalby-Kogan and Daandine-Nandi roads. Lighting may be visible during night drilling activities. <p><u>Kogan North</u></p> <ul style="list-style-type: none"> • Three new wells were drilled in July and will be online before the end of 2019. <p><u>Braemar 2 power station</u></p> <ul style="list-style-type: none"> • An 84-hour shutdown was carried out in October 2019 to service the gas delivery system (part of a 10-year overhaul). • The work included valve and integrity checks. • The shut was completed with without safety incident, on-time and within budget. <p><u>Tipton</u></p> <ul style="list-style-type: none"> • More gathering work is underway to connect 21 new wells into the compression facility. • Some older wells are being decommissioned; ‘cut and capped’ is the terminology used for this: <ul style="list-style-type: none"> ○ at the end of the well’s life, wells are filled with concrete and cut off below the ground surface ○ a plate is fixed to the top of dead well for identification ○ the location is GIS mapped and registered with the State Government. <p><u>Meenawarra</u></p> <ul style="list-style-type: none"> • Two wells drilled earlier in the year were completed and scheduled to be online soon. <p><u>Plainview East Pilot</u></p> <ul style="list-style-type: none"> • Planning continues for a new gas production pilot north of Cecil Plains, east of the existing Plainview Pilot. • Pipelines will connect gas and water to the Tipton field. No flaring will be required at the pilot site. • The objective is to test coal characteristics and production east of the Horrane Fault (similar to the existing Plainview Pilot). • All construction is proposed for 2020. Landholders have been engaged and site surveys completed. • Twenty-five soil gas monitoring points will be installed to baseline and monitor for gas migration in the region surrounding the pilot. Landholder engagement has commenced for these sites. 	

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ITEM 5	<p>Surat Gas Project update – Guy Young and Chris Wicks</p> <ul style="list-style-type: none"> • Guy Young introduced himself as General Manager for Surat Opportunities. He has been with Arrow for approximately one year. • The SGP has yet to receive FID from Arrow’s shareholders. • Meanwhile, Arrow continues to expand existing operations at Daandine and Tipton fields. • 2019 has been a big year for Arrow in preparation for FID. • Planning and preparation works have been underway in anticipation of infrastructure upgrades to extend Arrow’s compression facilities in readiness for the SGP. • Preparation has also involved significant engagement with landholders about development plans. <p>Development maps (Chris Wicks)</p> <ul style="list-style-type: none"> • Chris Wicks presented development area maps, showing first disturbance year from 2020 to beyond 2026. Development beyond 2026 is not yet defined. <p><u>Dalby area</u></p> <ul style="list-style-type: none"> • A large number of landholders were engaged in the Duleen Kupunn and Broadwater Road areas. • Plans include ~200 wells (in total) across these areas. Arrow is progressing towards detailed design and drafting Conduct and Compensation Agreements (CCAs) for the Duleen Kupunn area by the end of 2019. • John Hughes asked what well type will be used in this area. • Chris advised wells will be mostly deviated in these areas with a smaller number of single wells where it suits the geology or the landholder. Single wells are required for shallower coal seams towards the east of the development area. <p><u>Tipton and Cecil Plains area</u></p> <ul style="list-style-type: none"> • 60 wells are planned for the State Forest area. • 30-40 vertical wells are planned for Arrow’s Lynwood property. <p><u>Kogan to Chinchilla area</u></p> <ul style="list-style-type: none"> • Groundwater monitoring bores are being installed in the PL253 area to inform Arrow’s broader development plans in 2021. • Arrow is also planning to construct a treated water pipeline to Kenya East Pond in 2022 as part of Arrow’s beneficial use network plans. <p><u>Miles area</u></p> <ul style="list-style-type: none"> • 30-50 wells are planned with kick-off in 2021 in the southern development area. These will be connected to Shell-QGC operated McNulty field compression station and water pond. • Development to the north will follow from 2022. <p>Responding to community concerns</p> <p><u>Flaring impacts</u></p> <ul style="list-style-type: none"> • Arrow has been working to reduce flaring events and impacts. 	

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	<ul style="list-style-type: none"> • Up to seven permanent new flares will be required across the basin for the SGP. • Horizontal flares (as opposed to vertical flares, where practical) will reduce visual impact, light and noise pollution. • The horizontal flare design includes a 6-8 metre wall for safety. This also reduces the sterile area around the flare. APLNG uses a similar design. • A gathering line will connect facilities to enable gas to flow between facilities to reduce the need for unplanned flaring. • Leisa Elder said data on flare types was presented to Arrow’s decision review board and, despite the higher cost; there was unanimous support for horizontal flares given the reduction in impacts. This decision was informed through committee feedback and should be considered as a committee achievement. <p><u>Road management</u></p> <ul style="list-style-type: none"> • Arrow is reviewing its road management strategy to minimise impacts on landowners and the broader community. • The review looks at existing and planned road use to ensure roads are appropriate for planned traffic volumes. • This is an important part of Arrow’s engagement with Duleen Kupunn landholders. Arrow plans to operate in this area for some time and road use was raised as a concern which Arrow is addressing. • Traffic impact assessments are being carried out to identify technical and safety requirements of roads. Some roads may require sealing while others need only dust suppression. • Arrow is also trialling ‘Vitabond’ as a dust control option. • This work aligns with the project’s Environmental Impact Statement (EIS) and Social Impact Management Plan (SIMP) commitments. • John Hughes asked if Arrow is conducting this work in conjunction with Western Downs Regional Council (WDRC) and the Department of Transport and Main Roads (TMR). Chris confirmed this is the case. • Jane Walker asked if Arrow already provides funding for road upgrades. Arrow confirmed this has occurred for specific roads. • David Wolf said Arrow is working to build a relationship with WDRC and TMR to support improved coordination and timeliness of road maintenance. • Graham Burt (AIFL committee) said road use and maintenance was important since Arrow staff and contractors would be moving through residential areas, potentially at 2am. He also suggested that Arrow should identify whether landholders wanted access tracks as part of their agreement. Negotiating terms like this upfront could alleviate problems later on. • John Hughes said community members have called the Department of Natural Resources, Mines & Energy (DNRME) about road use. He had spoken to both Arrow and WDRC to address the enquiries. • David Wolf said Arrow would re-assess road conditions several months before a project commences to ensure its plans were adequate. 	

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	<ul style="list-style-type: none"> • Graham Burt said that while Arrow was engaging new contractors, it was a good time to set standards for road use behaviours. • Chris Wicks said that issues around road use behaviours and community awareness are raised during contractor kick-off meetings, by Arrow’s Community Engagement team. <p><u>Subsidence</u></p> <ul style="list-style-type: none"> • Further research is underway to improve understanding of the potential for subsidence from coal compaction. • This issue has been raised as a concern for landholders in the flat, levelled landscape around the Kupunn area. <p><u>Solar panel trial</u></p> <ul style="list-style-type: none"> • Arrow is trialling solar panel use in a new wellhead power design option. • The trial will take place in 2020 and assess well site solar power as a supplement or replacement of existing engines. • Potential benefits may include less maintenance, cost and travel, as well as reduced emissions. The plan would suit the later part of a well’s life span. <ul style="list-style-type: none"> • Ian Hayllor asked whether solar panel use would increase the size of well pads. Chris Wicks said this is one of the considerations of the trial. The proposal, if adopted, will not be suitable or all sites. 	
ITEM 6	<p>Noise management – David Wolf</p> <ul style="list-style-type: none"> • Dave Wolf advised that noise is a concern for the community, and is always front of mind for Arrow. • Arrow must abide by legislated noise limits. However, feedback provided by landowners confirms that noise can be a nuisance even when within the legislated limits. • To deepen Arrow’s understanding of noise impacts, a study identified the noise levels from various types of well-sites: <ul style="list-style-type: none"> ○ a field study was undertaken to inform development of a new noise model for Arrow’s field development planning ○ the model helps define separation distances when locating infrastructure. • The study found: <ul style="list-style-type: none"> ○ some noise sources are obvious, such as well head drive and generators ○ unanticipated noise impacts, such as pipework on well head skids ○ drive heads are noisier than expected; Arrow’s supplier has been asked to reduce the noise or provide other options ○ a ticking noise was identified in some wells; the source of the noise was isolated and the wells will be retrofitted to remove the component causing the issue ○ ‘noise bubbles’ around different well sites have been defined to inform development planning and separation distances between wells and homes to maintain legislative noise compliance. • Arrow is also working with Shelby to develop a super-quiet engine 	

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	<p>cabinet (similar size to current models). Shelby is developing a number of prototypes for Arrow to consider.</p> <ul style="list-style-type: none"> • Ian Hayllor said the presentation was good and agreed that it's all about the community's expectations. He said landholders tended to hear their neighbour's noise, not their own. • Scott Braund said Arrow should aim for best practice noise management. He asked whether the new model would be applied to existing infrastructure. David said there was an opportunity to retrofit infrastructure where there are sensitive receptors. • Jane Walker said noise impacts were often about 'loss of quiet enjoyment'. Community perceptions differed; e.g. one neighbour may be a young family with children while another may have industrial deafness and not notice the same noise emissions. • Ian Hayllor said light nuisance should be addressed in the same way as noise. David said Arrow was working with the rig companies to better manage light spill, including lighting angles and shielding options. • Guy Young said Arrow was also working with drilling contractors on reducing drill site noise. 	
ITEM 7	<p>Groundwater monitoring bore installation and bore assessment update – Stephen Denner</p> <p><u>UWIR update</u></p> <ul style="list-style-type: none"> • The 2019 Surat Cumulative Area Underground Water Impact Report (UWIR) takes effect from 16 December 2019. <p><u>Bore assessment update</u></p> <ul style="list-style-type: none"> • Arrow is installing water monitoring bores around the former Linc Energy site on Arrow's PL253 petroleum lease. • These bores would help determine if our activities could impact groundwater flow around the area. • Two of eight bores have been drilled. Arrow plans to have all eight bores installed and completed by February 2020. • Information from these bores will go to the Department of Environment and Science (DES) and the Office of Groundwater and Impact Assessment (OGIA). <p><u>Plainview Pilot update</u></p> <ul style="list-style-type: none"> • The Plainview Pilot follows seismic surveys carried out in 2016 and further informs our understanding of the interaction between the Horrane Fault, Walloon Coal Measures and the Condamine Alluvium. • The location was chosen due to its proximity to the Horrane Fault. • Data to date supports Arrow's understanding that the fault does not provide a pathway for gas or water movement. • Key characteristics of the Horrane Fault include: <ul style="list-style-type: none"> ○ The main fault has a 60m displacement. There are smaller faults with metres of the main displacement. ○ Twenty-two soil gas monitoring points (2-6m deep) and four monitoring bores have been installed to collect data on connectivity and gas migration. ○ In October 2017, Arrow installed the Plainview 34 	

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	<p>monitoring bore through the fault and injected the wellbore with water to test pressure response across the fault. Results showed no response, indicating the fault was well sealed. In comparison, results from the Taroom Coal Measures on the west of the fault showed depressurisation due to Arrow’s operations in the west. However, there was no depressurisation east of the fault. This difference between east and west of the fault also suggests that the fault acts as a seal.</p> <ul style="list-style-type: none"> ○ The soil gas monitoring points were installed to see if the fault lines could act as migration pathways for gas to surface. • Ian Hayllor asked if migrating gas would dissolve into water. Stephen said that gas will dissolve however there is a solubility limit and the gas would eventually come to the surface of the water. There are naturally occurring methane levels in water and soil. • Ian asked if Arrow was monitoring the Condamine Alluvium water for gas. Stephen said Arrow’s water monitoring bores measure methane levels in the Alluvium. <p><u>Subsidence monitoring update</u></p> <ul style="list-style-type: none"> • Arrow monitors and models potential ground movement from depressurisation of coal seams, as part of its Federal Government approvals. • In addition to mandatory requirements and to add to data, Arrow will install four ground movement monitoring base stations (including one in the Duleen-Kupunn area). • All currently available data indicates that any ground movement associated with depressurisation is unlikely to be perceptible. • Additionally, Arrow is: <ul style="list-style-type: none"> ○ engaging a remote sensing specialist to extract additional satellite data in the Condamine Alluvium area ○ updating the Arrow ground movement model using latest data ○ seeking ground movement data from agriculture-related entities to better understand the dynamics of ground movement across cropping land. • Arrow’s research will take 6-12 months and will be shared with landowners, when available. • Ian Hayllor asked if there is a correlation between movement and soil moisture. Stephen said work planned through the University of Queensland includes soil mapping which incorporates rainfall figures and soil moisture content. 	
ITEM 8	<p>Beneficial use network update – David Wigginton</p> <p>Five Beneficial Use Network (BUN) sub-committee meetings have been held to date.</p> <ul style="list-style-type: none"> • The identified preferred option is to supply allocation holders individually. • The committee will now continue to work through the details in 	

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	<p>relation to implementation and management of this option.</p> <ul style="list-style-type: none"> • Trading of allocation is a decision for individual participants. • The potential option to supply WDRC with water was closed as not feasible due to technical and legal issues. 	
ITEM 9	<p>Local content update – Jason King and Max Murray</p> <p><u>Regional spend and opportunities (Jason King)</u></p> <ul style="list-style-type: none"> • In response to an action from the last meeting, Arrow’s contracting and procurement team provided a breakdown of expenditure across the WDRC area. • Jodie Taylor from WDRC’s economic development area has provided information so the data can be categorised according to local method and used to track and manage information going forward. • WDRC also showed an interest in opportunities with suppliers across the region. Arrow will continue to work with WDRC on this. • Data shows significant spend (>\$4M January to September 2019) just on motel/hotels, credit card payments and vendors. Further analysis will allow us to separate other expenditure like fleet management costs, which are also spent locally. • Contractor purchase orders versus credit card expenditure can be shown; however, further breakdown by vendor type will help to inform opportunities for economic development in the region. • Opportunities in 2020 and 2021 will mainly include sub-contracting opportunities with major contractors. Dalby facilities will be upgraded including a new control room which is part of Arrow’s longer term operations and maintenance philosophy. • Arrow will continue to use local contractors as much as possible for services etc. All of NACAPP contractor staff requiring accommodation have been housed in the workers’ camp in Dalby. <p><u>Local employment (Max Murray)</u></p> <ul style="list-style-type: none"> • Arrow’s local workforce in the Surat Basin consists of: <ul style="list-style-type: none"> ○ 85% residential (residential is defined as those with a daily commute to work from Dalby or nearby area) ○ 15% non-residential – drive in/drive out (DIDO), bus in/bus out (BIBO) or fly in/fly out (FIFO), with accommodation in camp, hotel or housing. • A locality allowance is available for employees permanently residing and working in Moranbah or Dalby which includes 5% of base salary (up to \$6,000 per annum) for eligible employees. 	
ITEM 10	<p>Community update – Brydie Hedges & Leisa Elder</p> <p><u>Social investment (Brydie Hedges)</u></p> <ul style="list-style-type: none"> • Arrow has received some lovely feedback from organisations recently supported by the Brighter Futures community investment program. • Arrow has been contacted by a recipient of one of the vouchers funded by Arrow and distributed by Drought Angels. The recipient sent a thank-you letter and spoke with Arrow staff, sharing how significant the voucher was during this difficult time of drought. • In October, Arrow supported the Queensland Minerals Energy Academy (QMEA) to deliver a ‘my digital world day’ in Dalby: <ul style="list-style-type: none"> ○ 100 Dalby and Chinchilla state high school students 	

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	<p>participated in extra-curricular STEM event</p> <ul style="list-style-type: none"> ○ five teachers also received personal development training in the area of digital innovation. <ul style="list-style-type: none"> • Round three of Arrow’s Brighter Futures community investment funding has been finalised with 19 applications approved, including: <ul style="list-style-type: none"> ○ Dalby Show Society ○ Dalby Dolphins swim club ○ Lions Chinchilla (Christmas lights show) ○ Chinchilla State School ○ Miles Memorial trail ride ○ Wandoan Show Society. • Recent social investments promoted on social media included: <ul style="list-style-type: none"> ○ Beck Street Kindergarten’s Spring Soiree annual fundraiser with Quinten Bryce (attended by Arrow Operations Manager and Senior Community Officer). ○ Rotary Club of Dalby inaugural Health Expo ○ Dalby Day Nursery Kids Art on Show exhibition ○ Jandowae Kindergarten sensory garden project ○ Dalby Chamber of Commerce & Industry’s Business Excellence Awards, Arrow sponsored Young Business owner of the year award. • Arrow is preparing for the annual Arrow Broncos Dalby Fan Day (23 November, Dalby Leagues Club). The Broncos team will also be conducting school visits while in the region to talk about healthy lifestyle choices. <p><u>International recognition of Arrow’s work (Leisa Elder)</u></p> <ul style="list-style-type: none"> • Arrow received two finalist nominations in the S&P Global Platts Global Energy Awards. Arrow is <ul style="list-style-type: none"> ○ one of 10 finalists in Corporate Social Responsibility category for its partnership with Heart of Australia ○ one of eight finalists in Upstream Excellence Awards category for work in demonstrating coexistence in the Surat Basin ○ the only Australian company to progress to the finals amongst large international companies. • The nominations recognise Arrow for its work to incorporate social responsibility into core business, which is a global message for corporates. • The nominations, and specifically the Upstream Excellence Award, reflect the work of this committee. 	
ITEM 11	<p>Minutes of previous meeting and actions</p> <p><u>Minutes from previous meeting</u></p> <ul style="list-style-type: none"> • The minutes were circulated to members prior to the meeting. There were no questions raised; and the minutes were considered endorsed. <p><u>September meeting action (Stephen Denner)</u></p> <ul style="list-style-type: none"> • An outstanding action from the September ASCRG meeting was to explain recharge/recovery of water levels in the Walloon Coal Measures observed in a landholder’s water bore: <ul style="list-style-type: none"> ○ through the Arrow groundwater monitoring network, data 	

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	<p>often shows periods of recovery related to the operation of nearby wells, while wells further away remain stable or show a slow decline</p> <ul style="list-style-type: none"> ○ although wells show drawdown overall, there may be periods of recovery related to changes in operation ○ if changes in level are concerning, landholders should contact their Arrow Land Liaison Officer or the Community information line 1800 038 856 so we can investigate. 	
ITEM 12	<p>Any other business</p> <p><u>Make good liability issues</u></p> <ul style="list-style-type: none"> • Ian Hayllor raised a concern with liability issues surrounding make good bores: <ul style="list-style-type: none"> ○ when a landholder bore is plugged and abandoned as part of a make good agreement, the liability for what’s left in the ground is returned to the landholder ○ Ian believes the landholder should have assurance from the company regarding the standard of rehabilitation ○ there should be evidence of the standard of work including provision of full detailed engineering reports ○ Ian believes landowners will not be comfortable with carrying a liability that they had no part in creating and that companies or the government should be liable if there are issues following rehabilitation. • Simon Gossmann said that Arrow have been working with GasFields Commission (GFC) who are preparing guidance templates for Make Good Agreements. This includes example terms and conditions for make good agreements and an explanations of other issues which the parties should consider, including ongoing liability for plug and abandonment of existing landholder bores. The guidance has been created in consultation with industry groups including AgForce. • Jane Walker said the GFC was focusing on residual risk issues including make good agreements and would provide its advice to government. <p><u>GFC update (Jane Walker)</u></p> <ul style="list-style-type: none"> • Ruth Wade recently resigned from her role as Commission Chair. Ian Langdon is her replacement. Commissioners will remain for the rest of their tenure. • Colin Cassidy joined the executive team as acting CEO on 11 November. Colin has a background in state and local government and was involved in the early days of the GFC. • Leisa Elder referred to commercial issues in the past relating to the CSG industry. Around 2012, banks were concerned about property prices where CSG infrastructure was involved. This is no longer the case. • Jane said banks were actually interested in using CCAs in their modelling. Perceptions of the industry had changed over time. <p><u>Directional Drilling</u></p> <ul style="list-style-type: none"> • John Hughes (DNRME) has received enquires about Arrow’s directional drilling methods including production of gas from under neighbouring properties. He asked about Arrow’s position on 	<p>Action: Arrow to present on directional</p>

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	<p>compensation of neighbours in this instance.</p> <ul style="list-style-type: none"> • Brydie Hedges confirmed that directional drilling is a coexistence commitment that originated from Arrow’s work with the ASCRG and AIFL committees, to reduce the above ground footprint of infrastructure; and reduce impact to properties: <ul style="list-style-type: none"> ○ Brydie confirmed that Conduct and Compensation Agreements (CCAs) are designed for those landholder directly impacted by infrastructure. ○ In some instances, where related impacts are experienced by landholders (such as noise levels above compliance limits), Arrow will enter into an alternate arrangement with neighbouring landholders. ○ However CCAs are not provided to landholders for deviation of wells under their property. ○ Brydie confirmed Arrow would be happy to present on this matter at the next committee meeting. • Chris Wicks said the issue was also raised in shed meetings. Arrow engaged every landholder in an area as part of area wide planning. Arrow communicated very openly about the use of deviated drilling and will accommodate landholders by spreading infrastructure amongst landholders if that is what they wish – even through this means additional CCAs and management for Arrow. • Leisa said deviated drilling should not to be confused with horizontal drilling in the Bowen Basin which is different technology. 	<p>drilling and compensation at the next ASCRG meeting.</p>
ITEM 13	<p>Agreed outcomes, actions, deliverables</p> <ul style="list-style-type: none"> • One action was carried over from September meeting: <ul style="list-style-type: none"> ○ Arrow to document the committee’s key achievements. This action is in progress. • Leisa closed the meeting by stating that she hoped the meetings had helped to demonstrate that Arrow takes on the committee’s feedback and would continue to do so. She wished everyone a Happy and safe Christmas. 	
	Next meeting – TBC	

There being no further business, the meeting was closed at 12.20pm