



QGC

NOISE MANAGEMENT



WE UNDERSTAND THE IMPORTANCE OF
MINIMISING NOISE ASSOCIATED WITH OUR
CONSTRUCTION AND OPERATIONS ACTIVITIES.

Whilst certain levels of noise are expected during construction and operations activities, we undertake noise modelling to assist with siting of our facilities, and to identify noise mitigation measures.

WILL I BE NOTIFIED?

Before construction or operational activities commence, we will notify nearby residents about the activity, noise expectations and timeframes.

Community members can register to receive email operational updates, and news about Shell's QGC business by subscribing to: www.shell.com.au/qgc-opsbulletin

SHELL.COM.AU/QGC

WHAT WILL I HEAR DURING CONSTRUCTION?

Much of our business' future natural gas construction activities will include adding new gas wells to our existing field, called in-fill drilling, and gathering pipelines to feed into existing facilities.

Typical construction activities that are likely to cause noise include:

Noise from construction activities is similar to noise from road construction or earthworks.

What you may hear will be dependent on the location of the activity, the shape of the landscape, the existing level of noise in your area, vegetation, weather conditions and the time of day.



TRAFFIC

WHAT YOU MAY HEAR



Heavy vehicle movements

WHEN YOU MAY HEAR IT



Residents may notice increased vehicle movement including rig movements, water tankers and gravel trucks. The business will minimise night time vehicle movements on rural residential properties. Shell's QGC business has set speed limits for travel on rural residential properties: 20 km/hr within 200 m of dwellings and 40 km/hr elsewhere.



WELLS AND WELL PADS

WHAT YOU MAY HEAR



Construction of well pads



Drilling, completion and well surface facilities

WHEN YOU MAY HEAR IT



Well pads are constructed during the daytime and involve earthmoving equipment to clear a pad for drilling. The initial drill rig takes 2-4 days (24/7), and then a second smaller rig completes the well.



GATHERING LINES

WHAT YOU MAY HEAR



Earthworks and trenching for gathering lines



Laying gathering lines and constructing above ground infrastructure

WHEN YOU MAY HEAR IT



Pipeline construction typically occurs during daylight hours and involves earthmoving equipment. Construction may be intensive at times, but short term.

WHAT WILL I HEAR DURING OPERATIONS?

Once a well has been drilled and completed, surface equipment is installed at the wellsite to extract the gas and water from the well.

The wellsite equipment operates on a 24/7 basis, and includes a small gas engine (similar in size to a car engine) located in an acoustic enclosure to reduce noise.

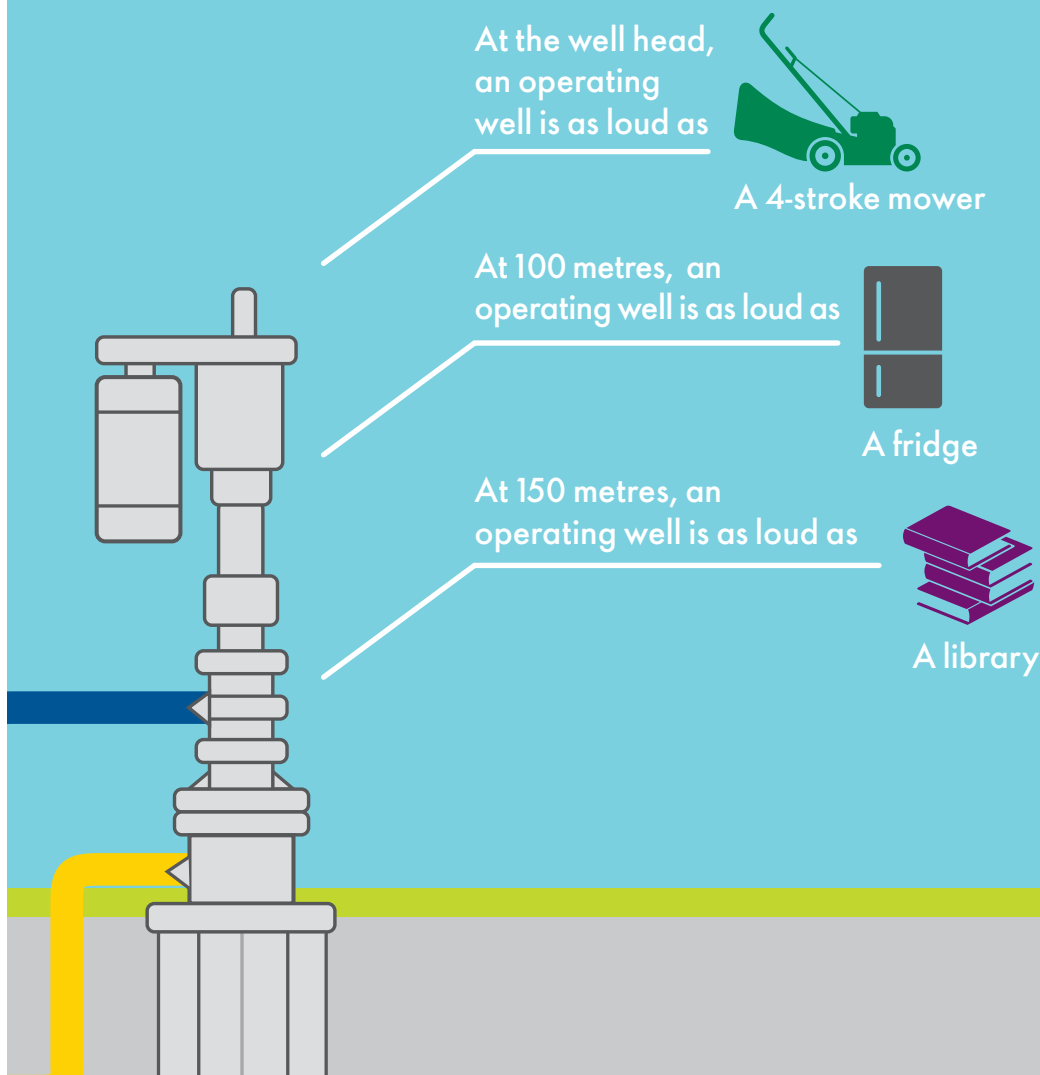
The infographic below provides a comparison of noise levels from a typical operating wellsite.

During the operations phase, well maintenance, known as well 'workovers', will be required from time to time.

A 'workover' of the well involves cleaning and servicing the downhole equipment (i.e. pump) in order to help make gas flow again, or make gas flow more effectively from the well.

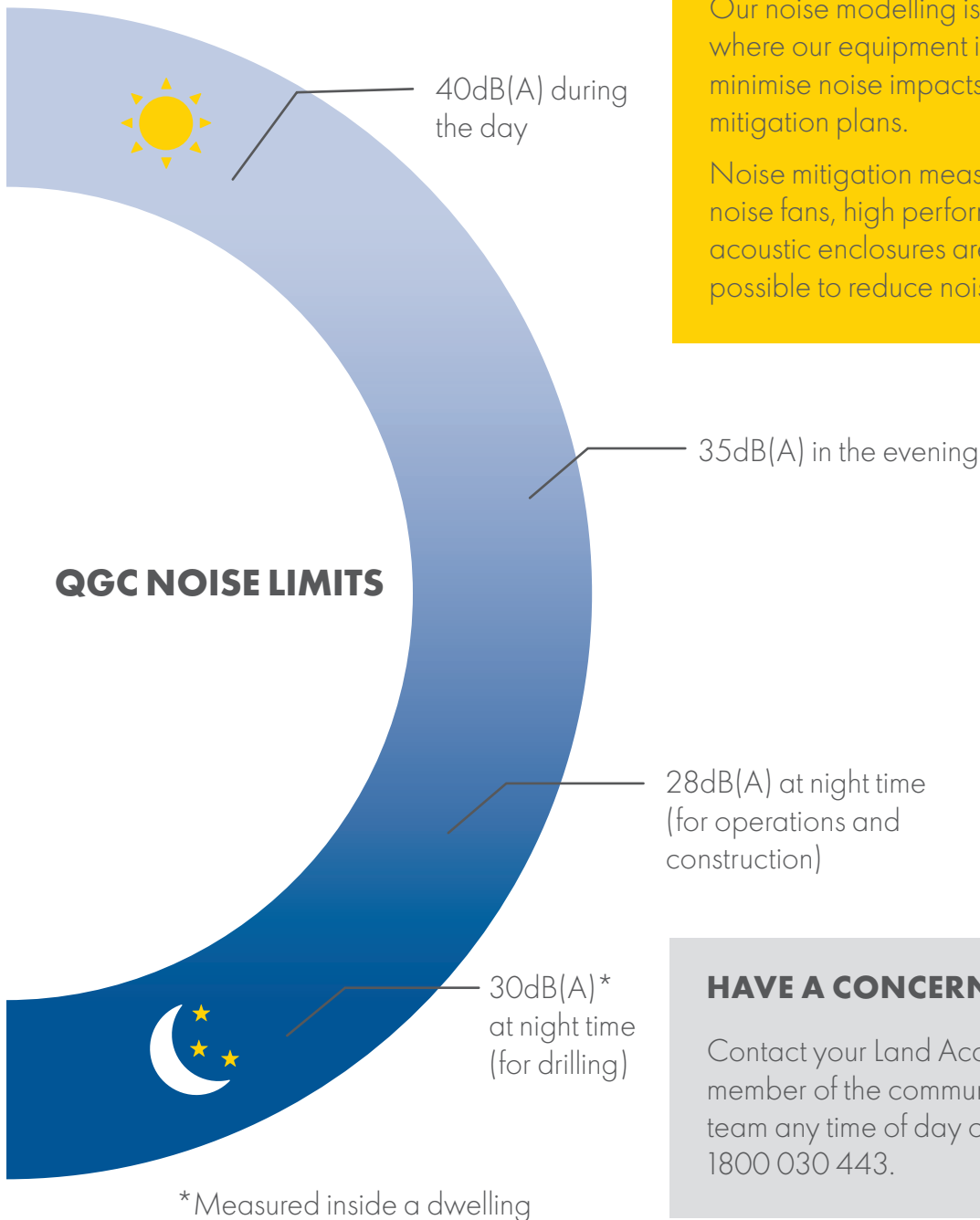
A workover will be required anywhere between every six months, to every three to four years. It typically takes between one to three days, both day and night.

A TYPICAL OPERATING WELL



NOISE LIMITS

Noise limits are identified by the Queensland Government based on the time of day and the length of activities (i.e. construction vs operations). Typical noise limits are:



MINIMISING NOISE IMPACTS

We try and minimise noise where possible during construction and operation works.

Our noise modelling is used to determine where our equipment is to be located to minimise noise impacts, and to inform noise mitigation plans.

Noise mitigation measures, such as low noise fans, high performance silencers and acoustic enclosures are used wherever possible to reduce noise from our activities.

HAVE A CONCERN?

Contact your Land Access Advisor, or a member of the community engagement team any time of day or night, on (freecall) 1800 030 443.

CONTACT DETAILS

Please contact your Land Access Advisor or a member of the community engagement team for more information.

QGC Community Information Centre,
18-20 Bell St, Chinchilla

QGC Office
27 Royd St, Wandoan
1800 030 443 (toll-free)
email: community@shell.com.au