



Glentworth

Proposed New Wellsite



Welcome






Thank you for taking the time to find out more about our plans.

IGas has now submitted a planning application to Lincolnshire County Council for a new oil wellsite, close to its existing site.

Prior to this we held a public consultation between the 21st October and the 11th November 2022.

During this time, interested parties were invited to provide feedback in the following ways:

-  Visit www.igas-glentworth.co.uk and fill in the feedback form.
-  Speak to a member of the team on **0333 358 0502** (Monday to Friday - 9:00am to 5:30pm)
-  Email glentworth@havingyoursay.co.uk

Should you have any questions about the plans our email and phone line are still open.

About IGas

IGas Energy plc is a British onshore energy company that currently delivers a mix of natural gas, crude oil and electricity to the UK's energy market and is developing a number of low carbon projects including large-scale geothermal to deliver heat.

IGas' strategy is to create value for shareholders and society in a sustainable way through the successful development, efficient operation and responsible ownership of energy infrastructure and businesses.

IGas has an existing onshore oil and gas exploration and production business, holding a portfolio of production and exploration assets in England. The business has more than thirty years' experience of successfully and safely extracting and producing hydrocarbons onshore in the UK.

IGas is committed to the environment and providing safe and healthy working conditions for its employees and contractors. We are also committed to maintaining close and responsive relationships with the communities in which we operate, and we have a long track record of engaging with local residents.



Scan the QR code to find out more about us

The Site



The village of Glentworth lies 16km north of Lincoln and much of the area forms part of the Glentworth conventional oil field, which is one of the 10 oil fields in the Gainsborough area. The Glentworth oilfield was discovered in 1961.

The proposed new wellsite is located c.2.3km outside the village and less than half a kilometre from the existing Glentworth-K wellsite which has been operated by IGas since 2011. The new wellsite will measure c4.4ha including the access track.

Site Plan



History

Lincolnshire's history with the production of conventional oil and gas dates back to the 1940s, as a large part of the county overlies the East Midlands Sedimentary Basin.

The Gainsborough oil field was initially the largest of the discoveries in the County. Following on from this initial success, an active exploration programme took place across the County to identify new fields. Over the years planning permission has been granted for 60 wells.

Historic Timeline



1961

In July the Glentworth field was discovered by the vertical well Glentworth-1, drilled by BP.

1987

Further development took place in June with the drilling of Glentworth-8 which established production from the Mexborough Rock.

1992/3

With the advancements in drilling technology, horizontal side-tracked wells were drilled and designated Glentworth-1z and Glentworth 9.

1996

Glentworth-10 was drilled as a new horizontal well designed to appraise reservoir distribution to the North of the existing site and successfully commenced production in June.

1997

In February, Glentworth-11z, to the Northeast of the site, was drilled as a horizontal producer.

The Proposals



IGas is proposing to install a new wellsite to establish production from the western extent of the Glentworth field. The oil will be extracted from the Mexborough Rock, a conventional sandstone reservoir that has produced oil for the existing Glentworth-K site for 60 years. The proposed new wellsite will produce oil for up to 21 years and will include:

- A well pad for the drilling of an appraisal well
- Up to seven horizontal development wells.

The proposed development will operate in a similar manner to the existing Glentworth-K wellsite and will be carried out in phases.

Further to pre-application discussions with Lincolnshire County Council, a planning application is now being prepared for the installation of the well pad and oil wells for the extraction of oil from the rock layer. It is estimated that production could be between 100-300 barrels of oil per day. Oil produced from the site will be sold to a domestic refinery.



Example of a 'nodding donkey' oil well

A Secure and Sustainable Energy Future



The UK Government acknowledges the need to boost the domestic supply of oil due to the current energy crisis and the need to reduce our reliance on imports.

The production of oil in the UK is less carbon intensive because there is no need to transport the oil across long distances.

Onshore safety and environmental regulations in the UK are more stringent than many of the countries we import from meaning that oil produced in the UK offers a lower carbon alternative to imports.

UK oil production offers economic benefits through:

- Local employment opportunities
- Direct contributions to the UK economy through tax
- Improves the country's balance of payments as less money will be spent on importing oil.

The process

The process of extracting oil from the proposed wellsite in Glentworth does not involve the process of hydraulic fracturing (fracking). Instead, oil moves through porous and permeable rock and is brought to surface using a pump.



Example of a 'nodding donkey' oil well

Operations & Delivery



The operation of the site will be carried out in seven phases.

Phase 1: Construction

Phase one will involve the construction of the site and the associated infrastructure, such as the access track.

The site construction and access track upgrades are expected to take up to five months. The site will be fenced off for the security and safety of staff and the public throughout this period.

Phase 2: Drilling Operations

The initial drilling operation will investigate the oil potential in the Glentworth fields western extension. **There are three stages to Phase two:**

A. Setting of conductor pipes. These are round pipes set into the ground to provide the initial foundation for the oil wells. It might be done by a smaller rig and after setting the conductors the smaller rig will be demobilised from site.

B. Mobilisation to site of the main drill rig, including all ancillary equipment.

C. Drilling the new directional well on the site. A directional well simply involves drilling down to the oil reservoir, then drilling at an angle within this reservoir to access additional resources.

Phase 3: Extended Well Test/Production

Phase three will involve mobilising temporary production facilities, testing and producing the mixture of fluid drawn from the well. During operation it is expected that the well will produce between 100-300 barrels of oil per day.

Phase 4: Well Pad Extension and Pipeline Installation

If phase three proves that there is commercial oil at the site, then permanent production facilities will be installed. This will include pipelines to connect the new well to the existing Glentworth-K site.

During this phase, associated gas will be piped to the existing site and used within the existing power generation.

Operations & Delivery



Phase 5: Production and Development Well Drilling

Over a 10-year period, up to six development wells may be drilled.

Once the wells have been completed, the drill rig and ancillary equipment will be removed from the site.

Phase 6: Production

During phase six, the wells will be worked in line with good oilfield practices.

The extracted fluids will flow back to the existing Glentworth K site via pipeline. Here the water will be separated from the oil, before being transported back into the reservoir for use in the injection well.

Gas will be used on the site by installing a generator which converts the gas to electricity and heating units which will be used for separating the oil and water.

Phase 7: Well De-Commissioning and Site Restoration

The wells will be abandoned and the site will be decommissioned once extraction of oil is complete, and the site will be restored in line with the North Sea Transition Authority (NSTA), Environment Agency (EA) and any other applicable guidelines at the time of decommissioning.

The future restoration of the site will reflect the surrounding landscape ensuring that, once complete, the site reflects the character of the area and the enhances the rural scenery wherever possible.



Phase 1: Construction



Phase 2: Drilling



Phase 7: Restored Site

Benefits



The proposed development in Glentworth builds on the existing benefits delivered through the Glentworth-K site. The new wellsite will offer benefits through increased investment in the local supply chain, retention of jobs, increase business rates and increased supply to the market.

IGas Community Fund

IGas operates its own Community Fund which has distributed over £1 million since 2008. We have set up the IGas Community Fund because we recognise that, in helping to satisfy society's energy needs, our activities have the potential to affect our neighbours. We accept the responsibility to minimise those impacts and to operate in a socially and environmentally acceptable manner. We also recognise that a good corporate neighbour is one who contributes to the wider well-being of the community. The fund is a practical way of providing such support. Over the years we have awarded grants worth over £30,000 to a number of local projects, in Lincolnshire, this includes:

- > **Crimestoppers Trust (Lincs)** – awarded a grant of £2,000 towards the cost of uniforms, educational materials, and a gazebo for the Crimestoppers team in Lincolnshire delivering workshops in schools to 11- to 18-year-olds.
- > **Owmby & Normanby Community Park Project** – awarded a grant of £2,000 to help created a community park from a field gifted by a local farmer.
- > **RAF Ingham Heritage Centre** – awarded £1,000 towards the cost of materials to enable a group of volunteers to renovate the main entrance to the RAF Ingham Heritage Centre.

We want to hear from you on what local projects, causes or initiatives you want to see us deliver and invest in. Please take a few minutes to provide your thoughts in the feedback form on our website. You can find out more about how to apply to the community fund visit: <https://www.igascommunityfund.co.uk/>



Scan the QR code to find out more about our Community Fund.



Local Considerations



Air Quality

The use of gas associated with oil production will be used for powering the existing wellsite at Glentworth-K and converting this to electricity and heating units, produces a relatively minimal impact on air quality.

An air quality assessment (AQA) has assessed all activities associated with the works that have the potential to impact air quality. The AQA has identified the following sources for potential air pollution from the proposed development:

- > Dust arising from well pad construction
- > Road Traffic Emissions
- > Combustion Plant Emissions
- > Odour

Views

A landscape strategy is currently being designed with the aim to enhance the existing features and screen the site from potential public view.

A planning application will be supported by a Landscape and Visual Impact Assessment (LVIA) which will provide more information on the impact of the proposed development would have on the landscape character and views.

Noise

The site is considered far enough away that the existing noise is unlikely to disturb residential properties. The nearest residential property is more than 600m to the south west of the site.

A noise assessment is being undertaken and this will be submitted with the planning application.

Ecology & Wildlife

Initial studies suggest that the site has a lower conservation value, however where necessary mitigation measures will be put in place to protect areas of ecological value.

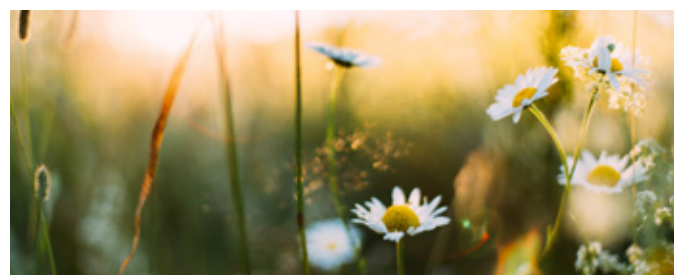
A suite of ecology and wildlife surveys are being undertaken to determine the ecological value of the site and highlight areas of particular interest for biodiversity.

Traffic and Transport

IGas has instructed traffic consultants to survey the access road to the proposed site.

Vehicle access to the wellsite during construction, drilling and initial production test phases will include the upgrade of the existing access track, including, improvements to passing bays, the widening of corners (to allow abnormal loads associated with the drilling rig to access the site) and the construction of an extension of the access track to the site.

We will look to make improvements and widen passing places in discussion with the local highways authority as part of the consultation process.



A Sustainable and Responsible Business



IGas supports the United Nations Sustainable Development Goals and have an active focus on:



We operate to established company and industry standards and processes which ensure provision of safe and responsible working practices across all our operational activities.

The protection of the environment is a core business objective for IGas. We are committed to working with regulators to ensure that any activity is undertaken safely and with as little impacts to the environment as possible.

IGas operates an ISO 14001 certified Environmental Management System.



Have Your Say



IGas works in consultation with local people, to ensure transparency and understanding of our operations. Before submitting a planning application to Lincolnshire County Council, we are keen to hear your views.

All feedback is important to us. Please take the time to read through the information available and let us know your views.

Our public consultation will remain open until Friday 11th November 2022.

All feedback will be considered in detail and will help inform the development of the proposals.

To provide your feedback:



Scan to fill in the
feedback form



Visit the '**Your Views**' page on the website and fill in the feedback form.
www.igas-glentworth.co.uk



Speak to a member of the team by calling:
0333 358 0502 (Monday to Friday - 9.00am to 5:30pm)



Email us your comments, questions or feedback at:
glentworth@havingyoursay.co.uk

If you or someone you know is unable to access our consultation material or provide feedback online, please get in touch.

