



Proposed Project Resolution Background information briefing

June 2020

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Resources: Our use of the term “resources” in this presentation includes quantities of oil and gas not yet classified as SEC proved oil and gas reserves. Resources are consistent with the Society of Petroleum Engineers 2P and 2C definitions.

Organic: Our use of the term Organic includes SEC proved oil and gas reserves excluding changes resulting from acquisitions, divestments and year-average pricing impact.

Shales: Our use of the term ‘shales’ refers to tight, shale and coal bed methane oil and gas acreage.

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Purpose of this background information briefing

Shell has commissioned ERM, an independent sustainability consulting company, to carry out a preliminary programme of engagement, as part of a wider proposed dialogue with local stakeholders.

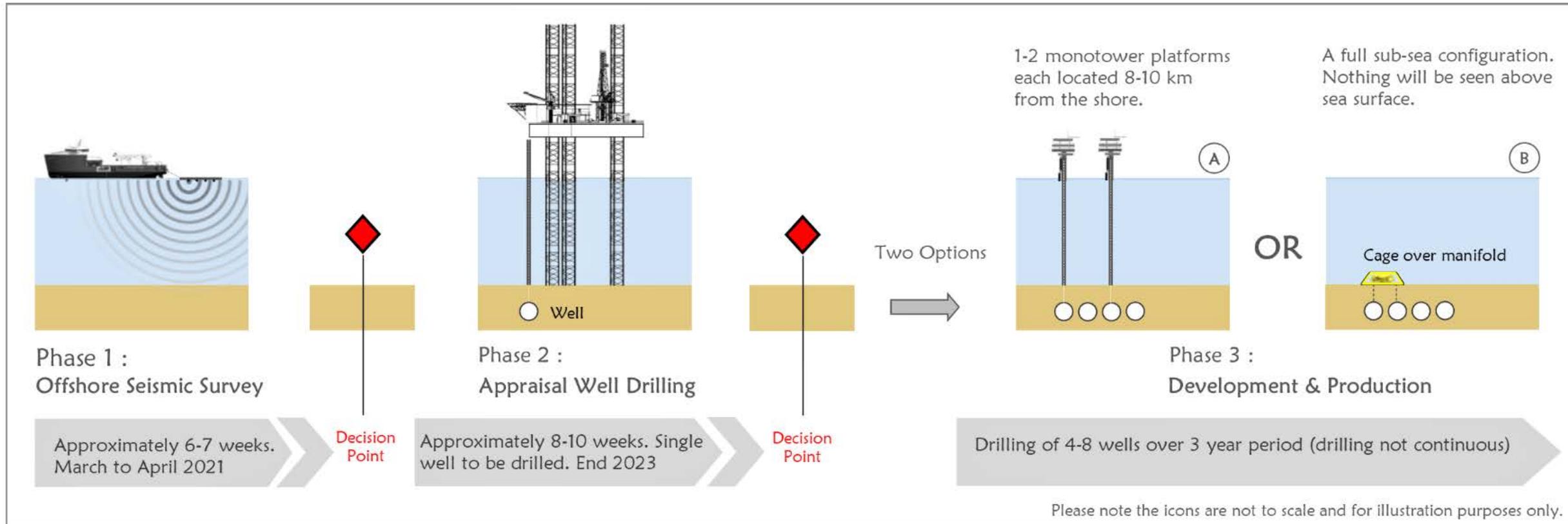
The purpose of the engagement is to understand stakeholder perceptions of a proposed offshore exploration and development project (located off the Whitby/Scarborough coastline), understand any areas of concern and gain feedback on further engagement activity that should be undertaken.

The purpose of this Background Information Briefing is to provide background information on the proposed development prior to a conversation that will be scheduled over the coming weeks. Please note that the project is still in development and the Briefing identifies the different options which may be progressed. All images provided in this slide deck are illustrative only but are provided to further understanding of the nature of the proposed activity.

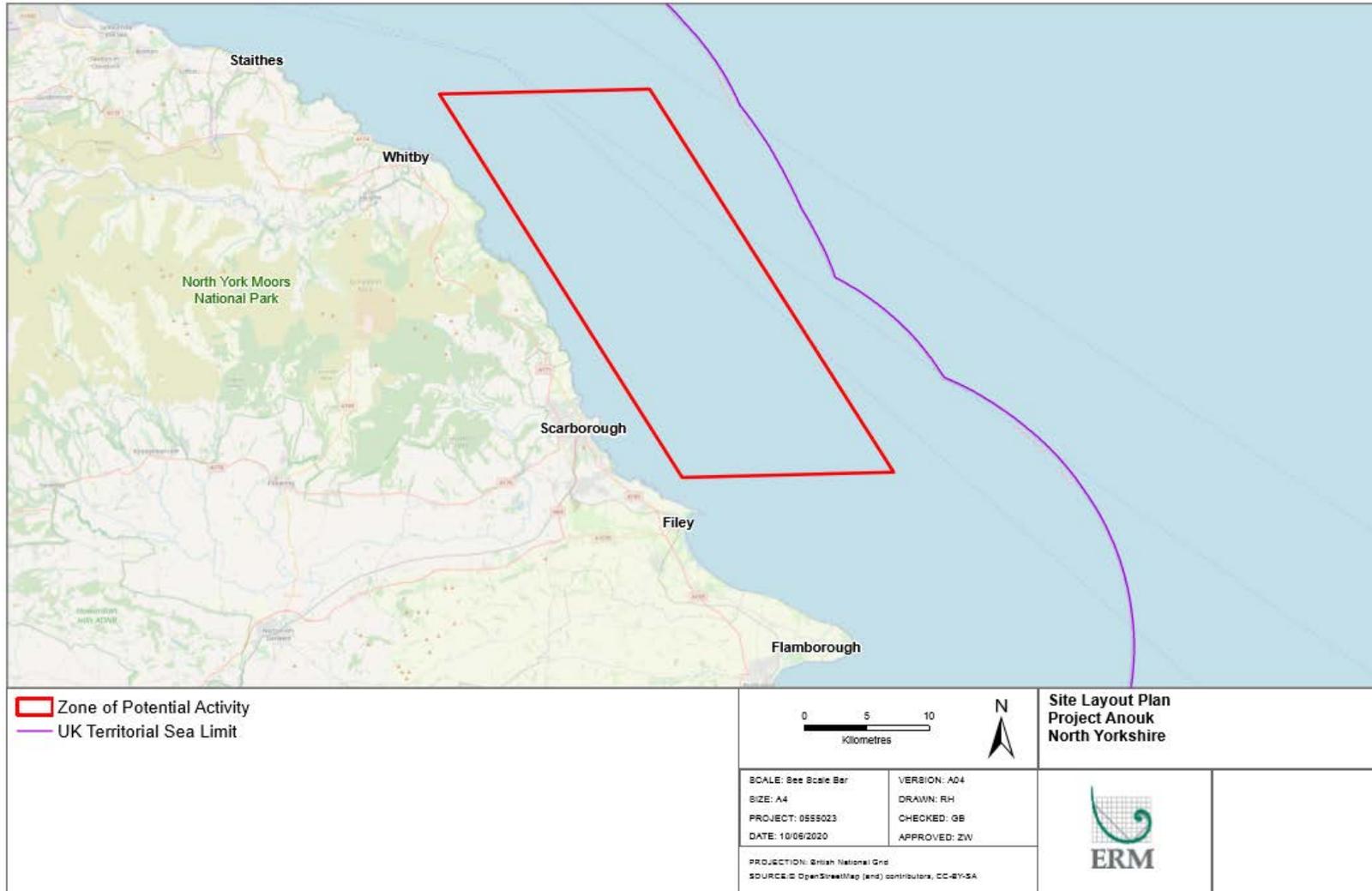
We thank you for your valuable input at this challenging time.

What is being proposed?

Shell are proposing to undertake a 3D seismic survey off the North Yorkshire coastline. The purpose of this survey is to understand if there is a commercial volume of gas in the survey area. This would be the first of a potential three phase development process as shown in the graphic.



Where will the survey work be located?



Where

The seismic survey work will be conducted off the Yorkshire coastline, between Whitby and Scarborough.

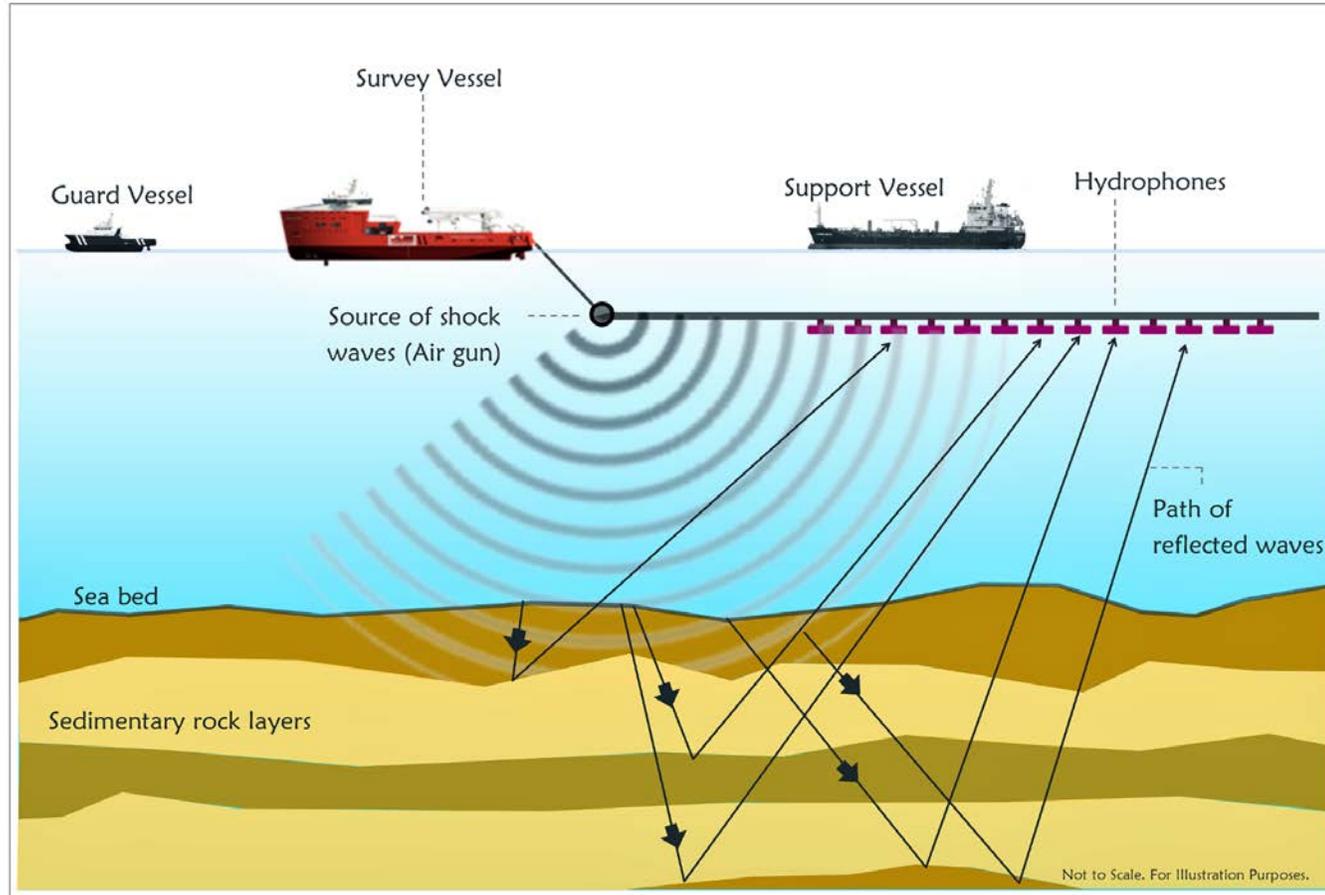
Survey zone

The zone demarcated in red on the map shows the area that the vessel will survey.

Use of Harbour Facilities

Whilst it is not envisaged that the ports will be used for seismic vessels, local boats may be leased as guard or support vessels.

What are 3D seismic surveys?



What?

A seismic survey is a low impact method of gathering information about the location and characteristics of geological structures beneath the Earth's surface, in this case beneath the sea bed.

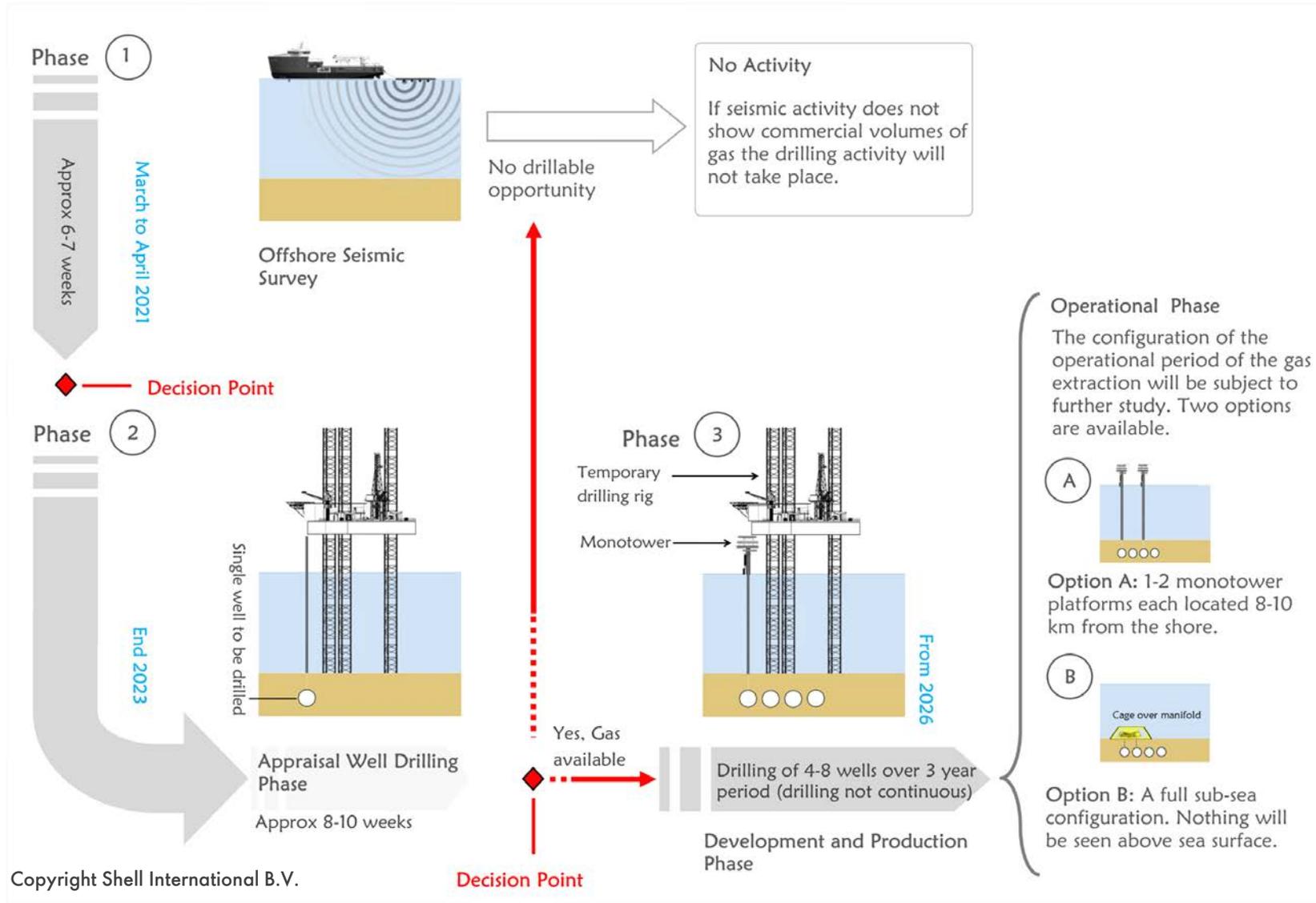
How?

An acoustic signal is generated that is picked up by sensors towed behind the vessel as the signal bounces back off the rocks under the seabed. This information is interpreted to make maps of the subsurface which are used to define drilling locations.



Photo of a Seismic Vessel in action

Project components, activity and location



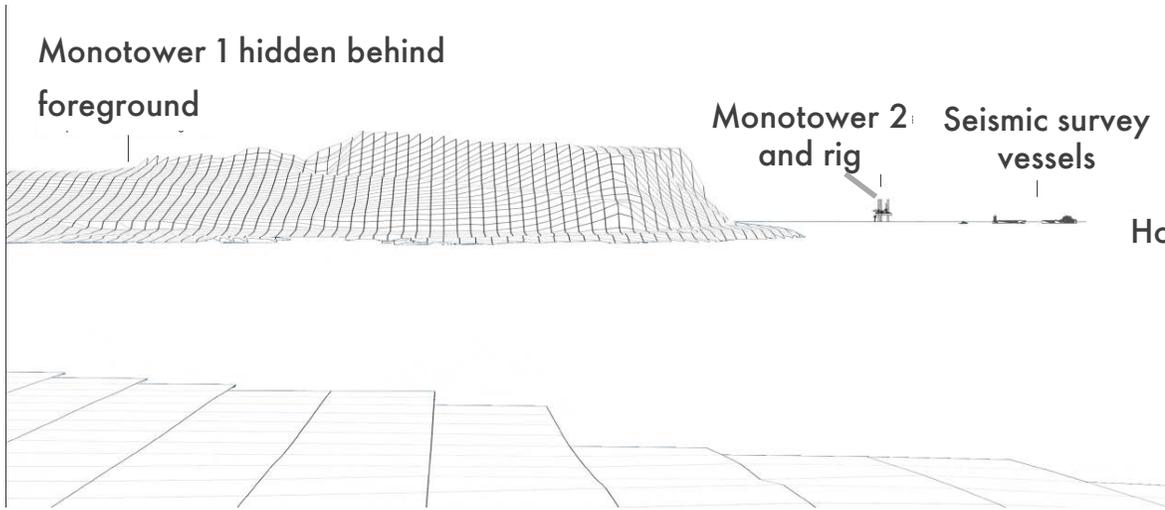
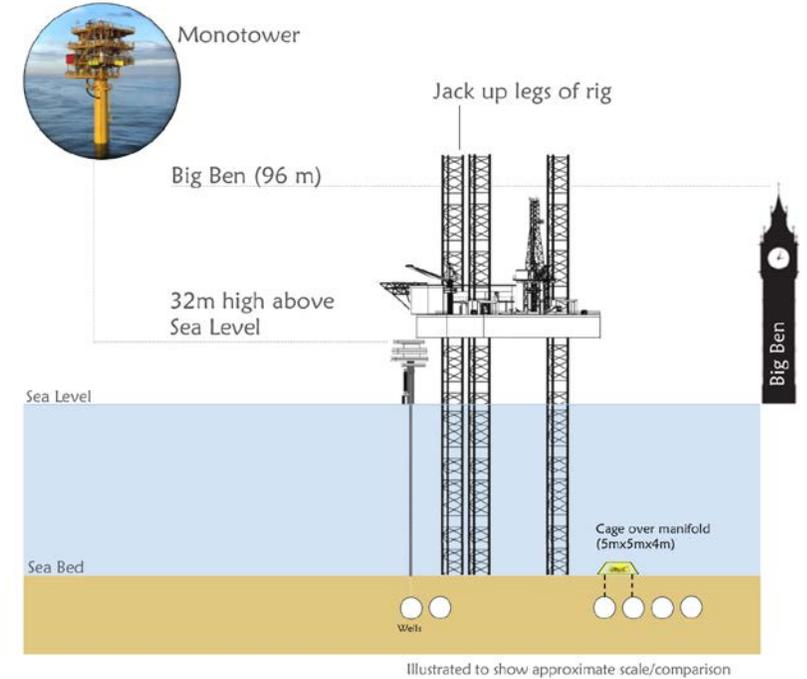
If commercialised, the gas would be piped subsea to be processed at the Teesside Gas Plant. Which is part of the Clean Gas project and could become the world's first gas-powered energy plant using technology that captures and stores carbon at scale.

What will it look like from Scarborough

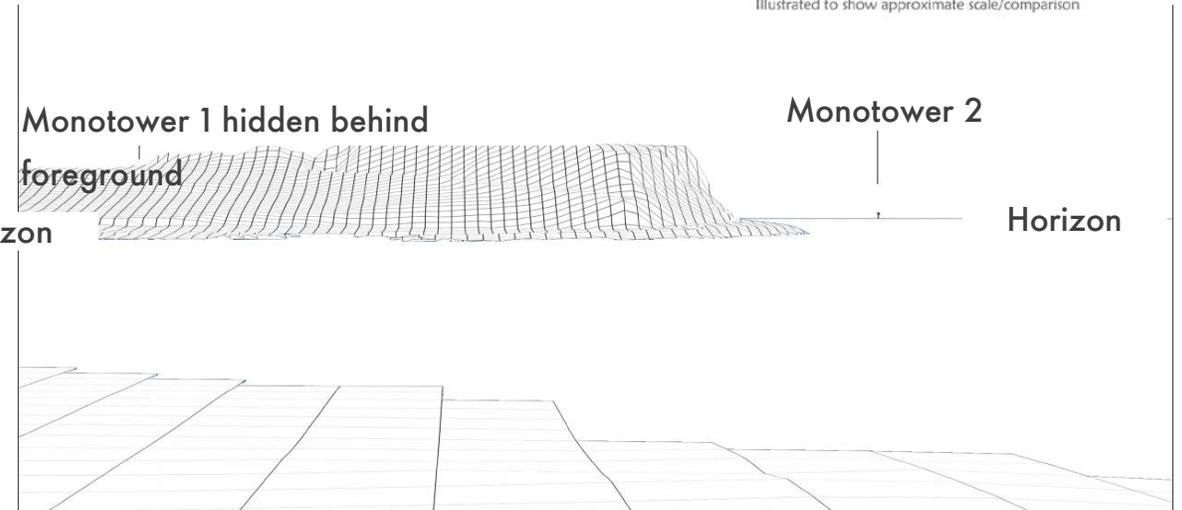
Google Street View South Bay, Scarborough



Size of project components



Seismic and drilling activities: worst case view

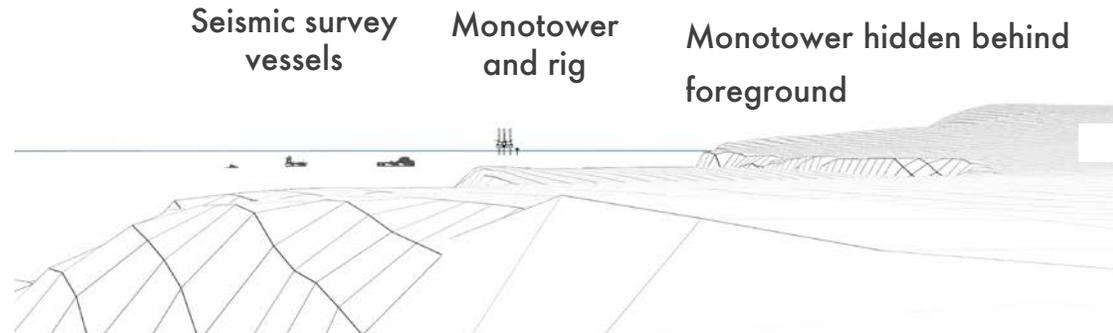
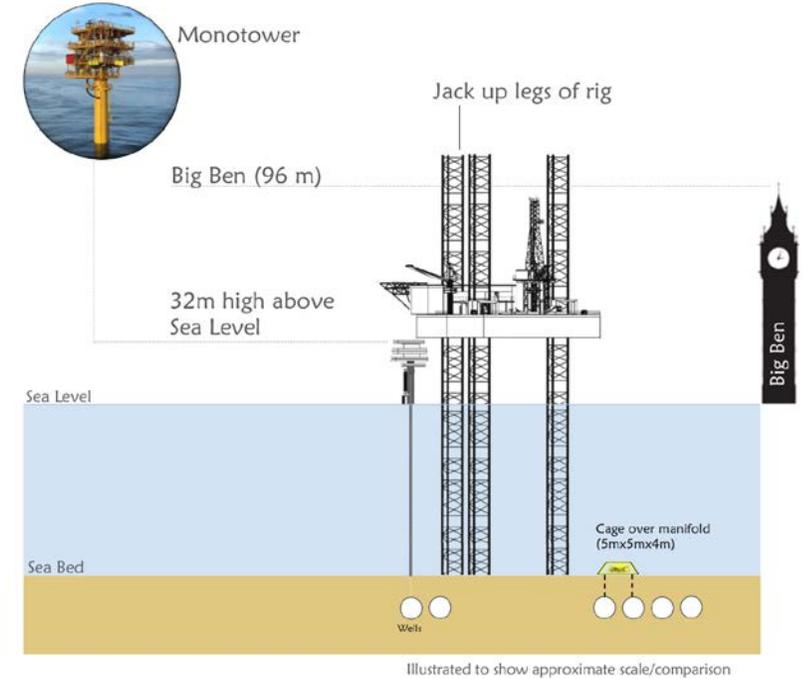


Operational activity: worst case view. Note that subsea option will not be visible.

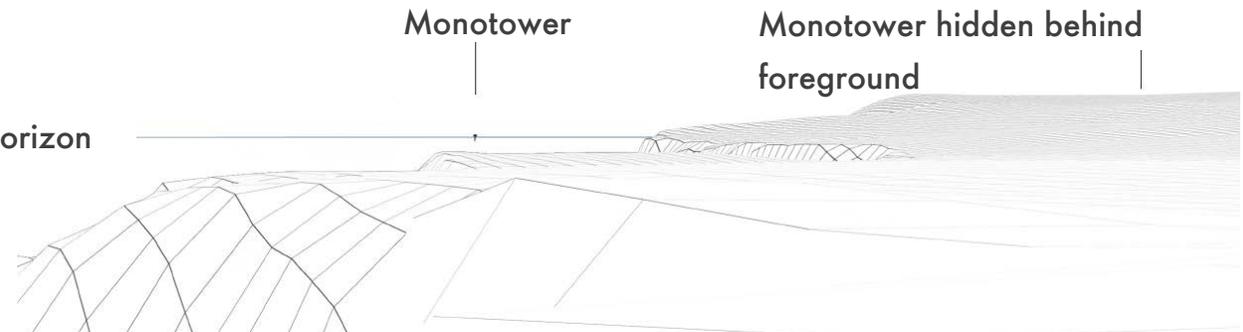
What will it look like from Whitby



Size of project components



Seismic and drilling activities: worst case view



Operational activity: Worst case view. Note that subsea option will not be visible.



How will this affect our coastline?

Commercial and Recreational Fishing

We have been working alongside the fishermen in the North Sea for over 50 years. This survey will help us better understand the impacts the seismic survey could have on the fishing fleets of Whitby and Scarborough. We are engaging with the local fishermen to determine how we can work together and minimise any impacts.

Marine Wildlife

We have been collecting seismic data in the North Sea for decades. Before we start to collect any seismic data, we must get a permit from the Oil & Gas Authority. Shell have detailed mitigation measures to minimise impact on people and the environment, including marine wildlife.

Tourism

We don't expect any significant impacts to tourism, we hope to learn more about any potential impacts to the tourism industry through our stakeholder interviews and through the Environmental Impact Assessment of the project.

Protected Areas

There will be no impact on the Marine Conservation Zones and the North Yorkshire Moors National Park

Working with local communities

Further engagement

Shell intends to further engage with the local community to provide information and identify and address any concerns.

- Shell also intends to explore how to maximise the local benefits
- Suggestions of specific additional stakeholder that should be engaged?
- How to approach community engagement?

Being part of the local community

Shell contributes to society and the communities close to where it operates, investing in projects to develop skills, encouraging enterprise and supporting community activities.

Community Projects include;

- Tomorrow's Engineers: Working with secondary schools to inspire young minds.
- Girls in Energy: A one-year course that is designed to open young women's eyes to the energy industry's wealth of career opportunities.
- Supporting start-up businesses and young entrepreneurs.



