

8. Statement of Community Involvement

Land adjacent to
Bramley Moor Lane, Marsh Lane

Construction of a well site and creation of a new access track, mobilisation of drilling, ancillary equipment and contractor welfare facilities to drill a vertical hydrocarbon exploratory core well and mobilisation of workover rig, listening well operations, and retention of the site and wellhead assembly gear for a temporary period of five years on land adjacent to Bramley Moor Lane, near Marsh Lane.

May 2017

INEOS Shale

Statement of Community Involvement

Land adjacent to Bramley Moor Lane,
near Marsh Lane

PEDL 300

May 2017

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1. Introduction

This Statement of Community Involvement (“SCI”) has been prepared on behalf of INEOS Upstream Limited (“INEOS”) to describe the community and stakeholder engagement undertaken to date during the preparation of the planning application for:

Construction of a well site and creation of a new access track, mobilisation of drilling, ancillary equipment and contractor welfare facilities to drill a vertical hydrocarbon exploratory core well and mobilisation of workover rig, listening well operations, and retention of the site and wellhead assembly gear for a temporary period of 5 years on land adjacent to Bramblemoor Lane, near Marsh Lane (“the Proposed Development”).

The application site comprises land adjacent to Bramblemoor Lane, near Marsh Lane (“the Site”) within Derbyshire County Council (“the Mineral Planning Authority”) (“MPA”).

Full details of the Proposed Development are set out in The Proposal and the Planning Statement that accompanies the planning application.

The Proposed Development is for exploration activities only, which consists of five phases as follows:

- **Stage 1:** Site Development and Establishment – approximately three months
- **Stage 2:** Drilling, Coring and Suspension – approximately three months
- **Stage 3:** Maintenance of the Suspended Well Site – retained until restoration, up to the five-year extent of the application
- **Stage 3a:** Possible Workover of the Suspended Well – up to one month as required. This stage is included as a contingency and would only be required if the well required to be re-entered for maintenance or similar.
- **Stage 4:** Use of the Well as a Listening Well – up to three weeks as required
- **Stage 5:** Abandonment (Decommissioning) and Restoration – approximately two months

The remainder of this Statement comprises the following sections:

- Section 2: National and Local Policy Guidance
- Section 3: Pre Application Consultation
- Section 4: Public Consultation
- Section 5: Exhibition Feedback
- Section 6: Conclusion

2. National and Local Policy Guidance

2.1 National Planning Policy Framework

The National Planning Policy Framework (NPPF) published in March 2012 sets out the Government's planning policies for England and how these are expected to be applied.

A core principle of the planning system, as expressed in paragraph 17 of the NPPF, is that planning should be genuinely plan-led and empower local people to shape their surroundings.

Paragraph 155 of the NPPF highlights the importance of early and meaningful engagement and collaboration with neighbourhoods, local organisations and businesses. In relation to the creation of Local Plans it states that a wide section of the community should be proactively engaged so the Plan reflects a collective vision.

Paragraph 188 states that:

“Early engagement has significant potential to improve the efficiency and effectiveness of the planning application system for all parties. Good quality pre-application discussion enables better coordination between public and private resources and improved outcomes for the community.”

Paragraphs 190 and 191 encourage pre-submission consultation with statutory consultees and other consenting bodies respectively, in order to highlight and resolve any potential issues at the earliest opportunity. This also enables all parties to establish the type and level of information required and assists in avoiding unnecessary delay and cost.

2.2 Planning Practice Guidance

The Planning Practice Guidance (PPG) published on 6 March 2014 includes information about the role of consultation prior to submitting a planning application.

The guidance highlights how pre-application engagement can offer significant potential to improve both the efficiency and effectiveness of the planning application system and improve the quality of planning applications and their likelihood of success. It is noted that this can be achieved by working collaboratively and openly with interested parties at an early stage to identify, understand and seek to resolve issues associated with a proposed development.

The PPG also notes that stakeholders in the planning process include the local planning authority, statutory and non-statutory consultees, elected members and local people. Each party has an important role to play in ensuring the efficiency and effectiveness of pre-application engagement.

In relation to community consultation, the PPG notes that although engagement with the community is not compulsory whilst preparing a planning application (except for some onshore wind-turbine applications), it is encouraged where it will add value to the process and the outcome.

2.3 MPA's Statement of Community Involvement

Derbyshire County Council's Statement of Community Involvement was adopted in December 2006, with its overall objective being to ensure full participation from communities within the County Council's planning functions.

Paragraphs 5.10 and 5.12.6 emphasise the importance of pre-application discussions. In particular, paragraph 5.12.6 states that the County Council encourages early consultation with local residents, neighbours and parish councils and outlines that *"public meetings, workshops and exhibitions are useful methods to use in this respect¹"*.

¹ Page 32, paragraph 5.12.6 of Derbyshire County Council Statement of Community Involvement.

3. Pre Application Stakeholder Consultation

INEOS' approach to pre-application stakeholder consultation is underpinned by the general principles set out in the MPA's adopted Statement of Community Involvement and national policy which emphasises the importance of early engagement with the MPA.

A summary of INEOS' pre-application discussions with the MPA is set out below. Where possible, INEOS has considered the feedback received and incorporated this into the planning application.

3.1 Presentation to MPA Officers and Members

INEOS presented to officers and councillors of the MPA on Monday 23 January 2017. The presentation provided an introduction to INEOS, the opportunity presented by shale gas exploration, and further details on the proposed development (including the location of the site, environmental and other designations, and an outline description of the proposals). The presentation was followed by a brief question and answer session.

3.2 Meeting with MPA Officers

INEOS met with officers from the MPA on Thursday 20 April 2017 to discuss the application and the assessment work which would accompany it. The meeting was attended by the planning team as well as technical consultees from the highways, environmental health and drainage teams.

INEOS outlined the nature of the application proposals, including techniques and mitigation measures designed to remove or reduce the risk of any environmental or amenity concerns arising. INEOS explained the approach that has been taken to assessment work across a range of topic areas, including an open discussion on each topic. INEOS explained the approach adopted in the draft application package and the MPA asked questions and offered advice on the approach they would prefer to see with respect to each topic.

The MPA advised the following on the topic areas discussed:

Category	Summary
Transport	Consideration should be given to alternative access routes and why they have been discounted. Sustainability factors should be considered when balancing the length of the route compared to the physical constraints and potential amenity concerns. The council officers requested that information be provided on vehicle movements, including the number of movements associated with the largest vehicles to be used.
Drainage	The MPA advised that the drainage system to be installed would be reviewed in detail once submitted, but noted that it should effectively manage surface water flows on the site.
Contamination	The MPA noted that there were unlikely to be any significant issues

	with contamination given the lack of existing sources and restricted pathways which result from the way the proposed development will be constructed.
Noise	INEOS were asked to provide the background monitoring data, as well as all noise model inputs, when the application is submitted.
Air emissions	INEOS was advised to ensure that the application covered enough information to adequately explain why an Air Quality Assessment is not required.
Landscape and Visual	The landscape architect was not able to attend the meeting but it was recognised that the impacts during the drilling stage will be temporary in nature and not present for the entire length of time for which planning permission is sought. INEOS was advised to agree viewpoints with the landscape architect. The Council suggested that fencing and equipment to remain on site for the duration of the 5 year period should be darker in colour and visually recessive.
Archaeology and Cultural Heritage	INEOS advised that there were historic mining features in the area and that geophysical surveys had been undertaken.
Other	The MPA enquired about the length of core that will be extracted and explained the Council's planning committee meeting cycles and officer reporting deadlines.

4. Public Consultation

The programme of consultation for the Proposed Development incorporated the following events and actions.

4.1 “Town Hall” meetings

INEOS held “Town Hall” meetings in May and November 2016 in the East Midlands region and invited Parish and Town Councils to send representatives to attend on their behalf. A total of 71 Parish and Town Councillors attended the three meetings in the region.

These meetings introduced INEOS, described the background to the UK's continuing need for gas for decades to come and the economic and societal benefits of gas produced in the UK compared to importing from less environmentally regulated countries.

4.2 Consultation website

In January 2017 INEOS set up a consultation website (<http://www.ineos.com/businesses/ineos-shale/our-operations/bramleymoor-lane/>).

This webpage introduced the scheme, included a list of frequently asked questions, provided copies of relevant information, and publicised details of the forthcoming public consultation events.

The consultation website was further updated following the last public consultation event to include the exhibition banners.

4.3 Public exhibitions

INEOS held two public exhibition events in advance of submitting the planning application at Green Lawns Community Centre and at Marsh Lane Community Centre. INEOS advertised the first exhibition in advance via hand delivered leaflets and letters to over 450 nearby local residents in Marsh Lane, West Handley, Middle Handley and the surrounding area (Appendix 1). For the second exhibition, postcards were sent to residents, an advert was placed in the Derbyshire Times (Appendix 2) and updates were also provided on INEOS' consultation website.

The first exhibition was held on Tuesday 31 January 2017 (between 2pm and 8.00pm). This session gave an initial opportunity for the local community and stakeholders to drop-in at their convenience during the advertised times and speak to the project team and representatives from INEOS regarding the matters of planning, environment, and site design. The exhibition was attended by BBC East Midlands, BBC Radio Sheffield, ITV Central, Drill or Drop, the Derbyshire Times and Peak FM.

The second exhibition was held on Thursday 6 April 2017 (between 2pm and 7.30pm) and provided a similar opportunity for the local community and stakeholders to review the detailed proposals and speak to the project team and representatives from INEOS.

Attendees at both exhibitions were asked to comment on the proposals by completing a questionnaire during the consultation events and posting in the comment box. A copy of the relevant questionnaire is provided at Appendix 3 and copies of the exhibition banners for each exhibition are provided at Appendices 4/5.

A summary of this feedback is set out under Section 5.

4.4 Other public consultation events:

- A representative of INEOS attended the Eckington Parish Council meeting held on 10 January 2017.
- Information leaflets and invitations to the 31 January 2017 consultation event were hand delivered by the INEOS Community Relations team and a small number of conversations were held with residents during this process.
- An INEOS representative met with the Head Teacher of Marsh Lane Primary School on 12 January 2017 to introduce INEOS and discuss the proposal.
- An INEOS representative met with the Governors of Marsh Lane Primary School on 28 March 2017 to discuss the proposal.
- INEOS distributed approximately 90,000 (8 page) inserts in newspapers across the East Midlands including the Sheffield Star and Derbyshire Times. The insert introduced INEOS, described the shale gas exploration and extraction process and commented on the proposed exploration well.
- A Facebook Live Q&A session was hosted by the Derbyshire Times on 23 February 2017 with INEOS representatives answering questions on the proposal and on shale gas extraction. There has been 9,800 online views of the Q&A session (as at 1 May 2017).
- On 23 February 2017 INEOS' Operations Director, Tom Pickering, participated in a debate with an Eckington resident Cassandra Steele at Chesterfield College. A recording was made by students and subsequently distributed online by the Derbyshire Times.
- INEOS Senior Management have visited a number of residents close to the proposed site to discuss their concerns.
- INEOS participated in a public meeting in Mosborough on 23 March 2017 arranged by Clive Betts MP at which a number of residents of Marsh Lane attended.
- INEOS have also provided responses to questions submitted by local MP's Toby Perkins and Natascha Engel.
- Natascha Engel MP met the company as part of her research into issues around shale gas extraction. INEOS hosted a visit by Ms. Engel to their four well gas production facility near Warrington, Cheshire as part of her fact finding series of visits to well sites and protest camps in Yorkshire, Lancashire and Cheshire.

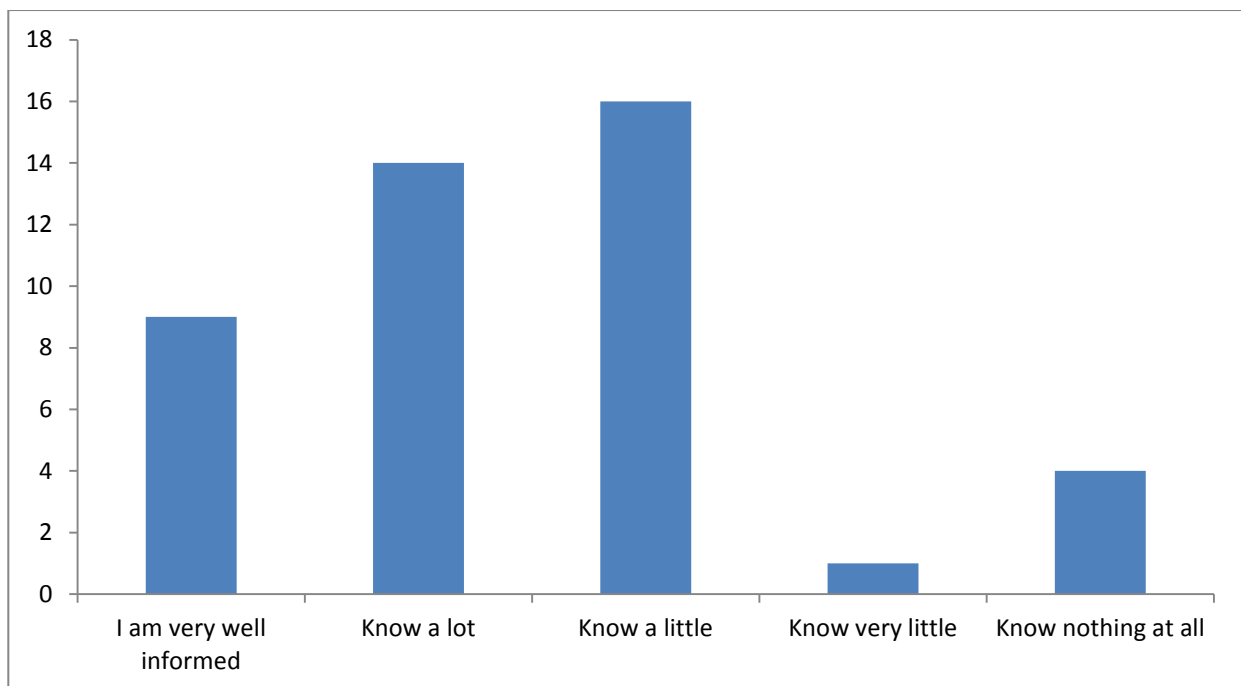
5. Exhibition Feedback

This section provides an overview of the responses received from the comment forms distributed during the public exhibitions. Each question and its corresponding responses are presented in turn below. The feedback forms are provided at **Appendix 3**.

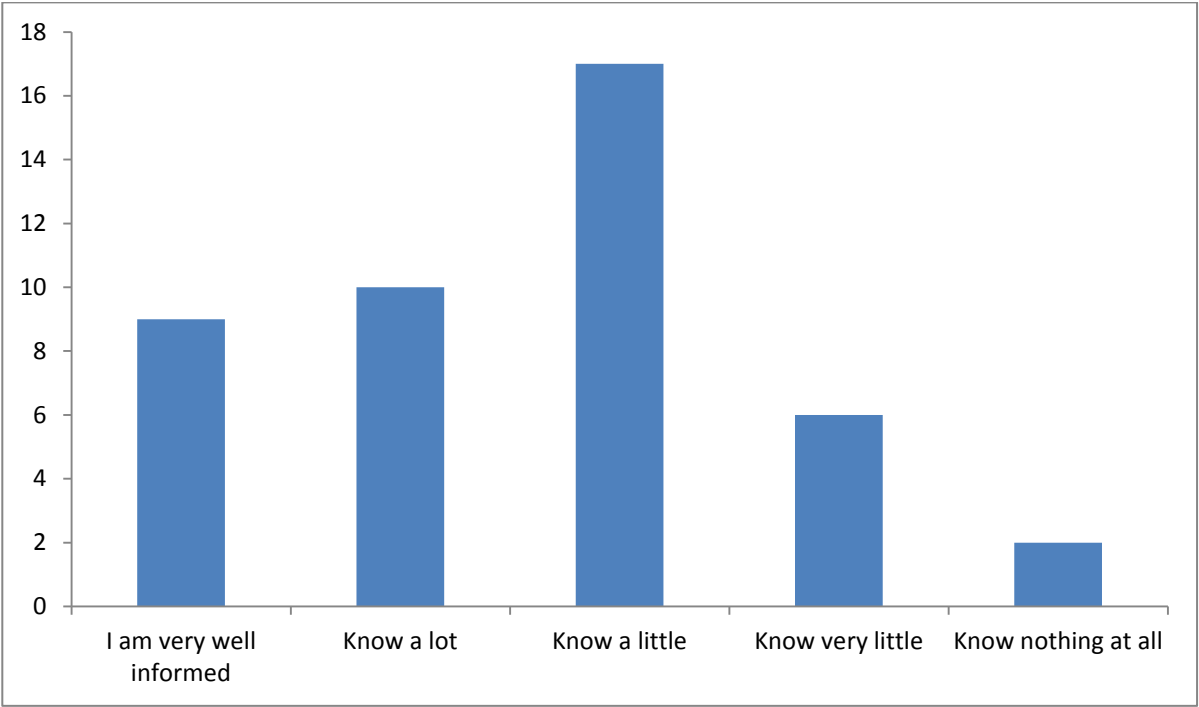
5.2 Exhibition 1

At the first public exhibition over 450 people attended and 44 attendees provided written feedback via the comment form, as summarised below.

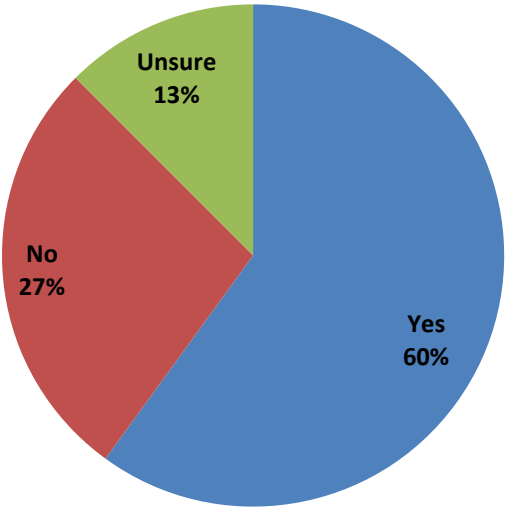
How would you describe your knowledge of INEOS?



How would you describe your knowledge of the processes required to understand the geology of the local area? i.e. core well drilling



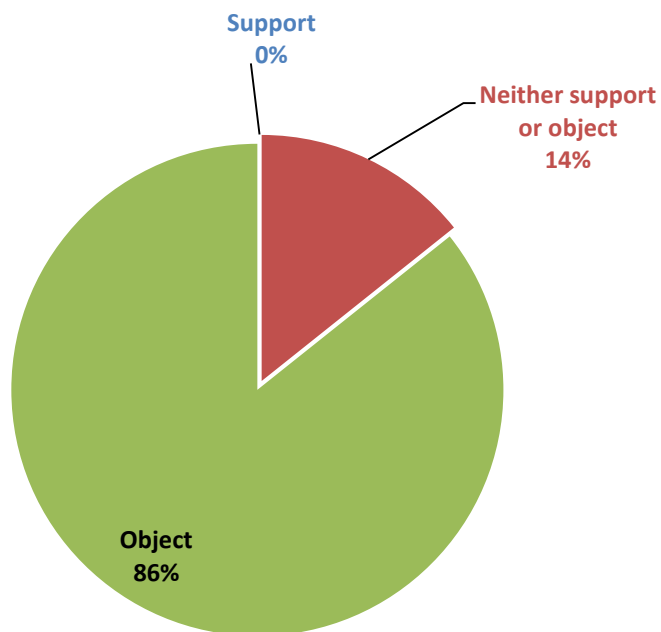
Has the need for Shale Gas Exploration been clearly explained?



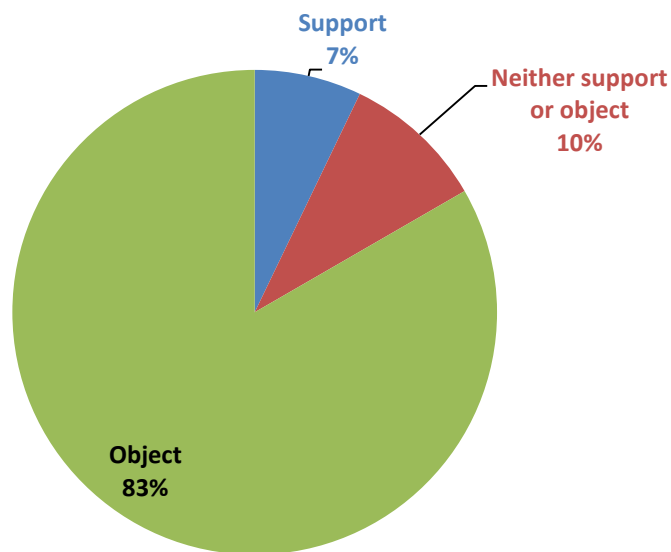
If temporary Core Well drilling goes ahead what effect do you think it will have on:

	Positive/ Good Effect	Neutral/ No Effect	Negative/ Poor Effect	Not Sure
Visual impact of the drilling rig	0%	2%	86%	11%
Vehicle movements to and from the site	0%	0%	98%	2%
Local economy / Community Benefits	0%	27%	61%	11%
Light pollution	0%	14%	80%	6%
Contamination of ground water	0%	5%	75%	20%
Noise from operations	0%	7%	84%	9%
UK economy	18%	23%	45%	14%
Operational safety	5%	9%	64%	23%
Security of UK energy supply	9%	30%	45%	16%

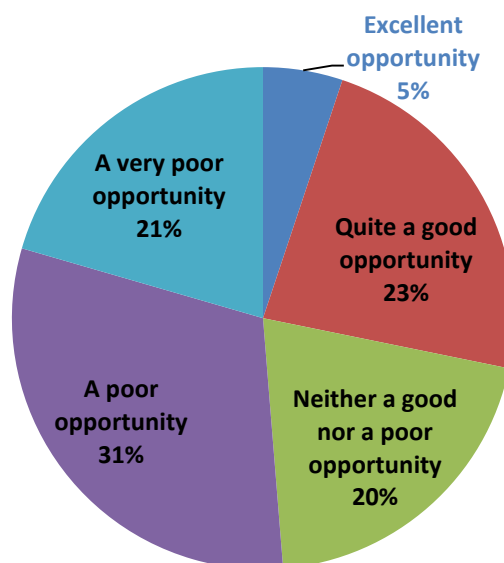
Overall, how would you describe your reaction to this specific planning application?



Overall, how would you describe your reaction to Shale Gas Exploration in the UK?



From your experience to date, can you rate the quality of community engagement undertaken by INEOS on their Shale Gas Exploration activities in the UK?



Do you have any specific concerns that you feel INEOS need to address in this planning application?

The key themes raised in relation to this question were:

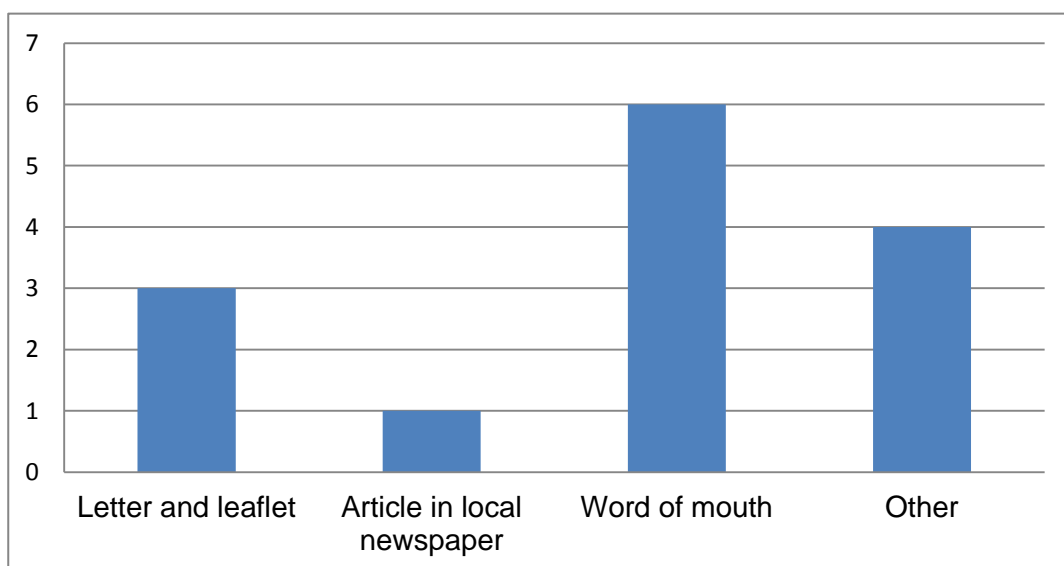
- A full EIA is required
- Overall benefit to the energy economy minimal
- The site should be kept away from residential properties
- The application must confirm HGV routing

- Safety concerns, particularly to children
- Adverse impact on house prices
- Adverse impact on human health
- Adverse environmental impacts (including noise, ground conditions, transportation, air quality, water quality, visual amenity, contamination)
- The promise of employment is over emphasised

5.2 Exhibition 2

95 people attended the public exhibition of which 14 of the attendees provided written feedback via the comment form, as summarised below.

How did you find out about today's public exhibition?



What do you think are the most important issues for INEOS Shale to consider as part of its temporary application? Please rank in order of importance with 1 being the most.

Rank	1	2	3	4	5	6	Other
Vehicle movements to and from the site	5	2	2	1			
Visual impact of drilling rig	1		2	3	1	2	
Operational safety on site	1	3		2		3	
Light pollution			1	3	4	1	
Protection of ground water aquifers	4	4	2	1		1	
Noise from operators		1	5	2	2		
Other							4

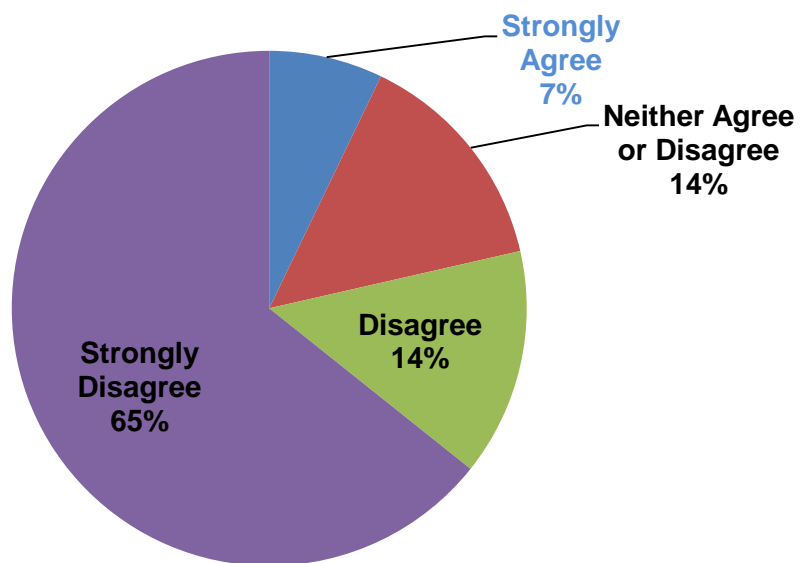
The numbers stated in the table above represent the number of respondents who ticked that rank.

Other:

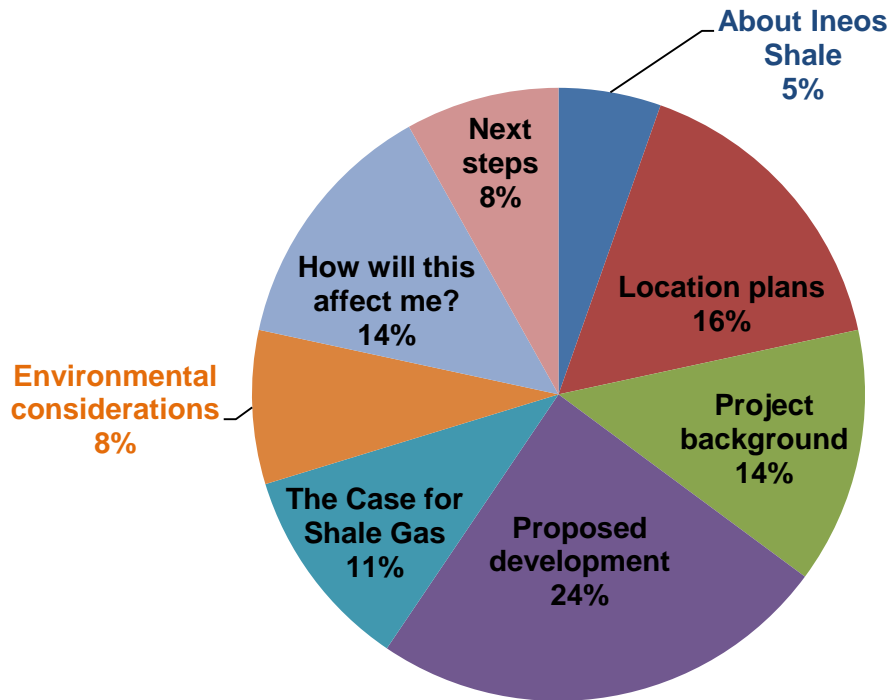
- Earth tremors / sink holes
- Impact on wildlife
- Property prices (i.e. property not insurable)

Note: Three people ticked all boxes without ranking in order of importance.

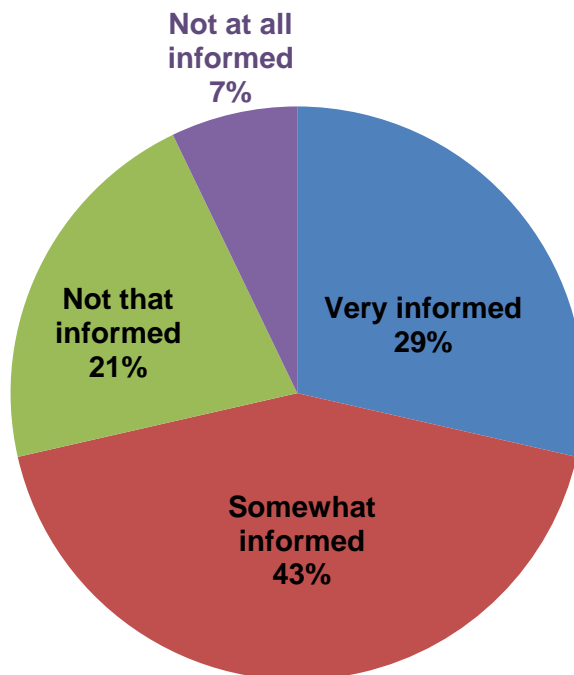
Taking into consideration factors such as the proximity to the highway network, natural screening and distance from nearby residential properties, do you agree that this location at Bramley Moor Lane, Marsh Lane is acceptable for temporary hydrocarbon operations?



What sections of the public exhibition have you found the most useful today?



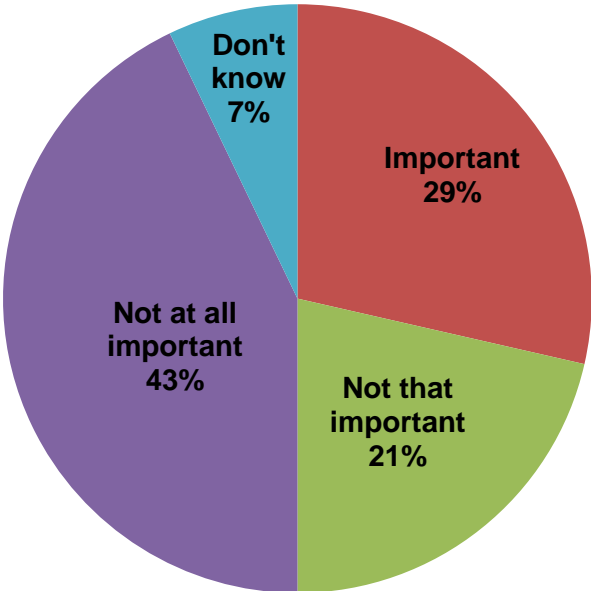
How better informed do you feel about INEOS Shale's proposals after today's exhibition?



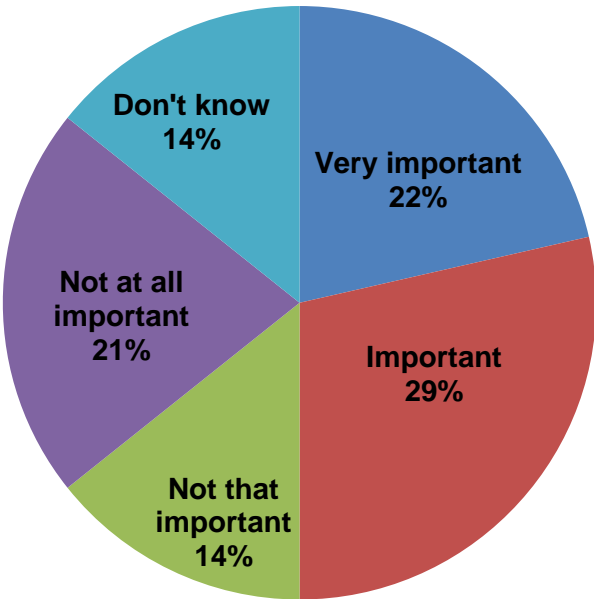
Q6. How important do you rate the following issues?

This question was split into six sub-questions with the questions and responses shown below:

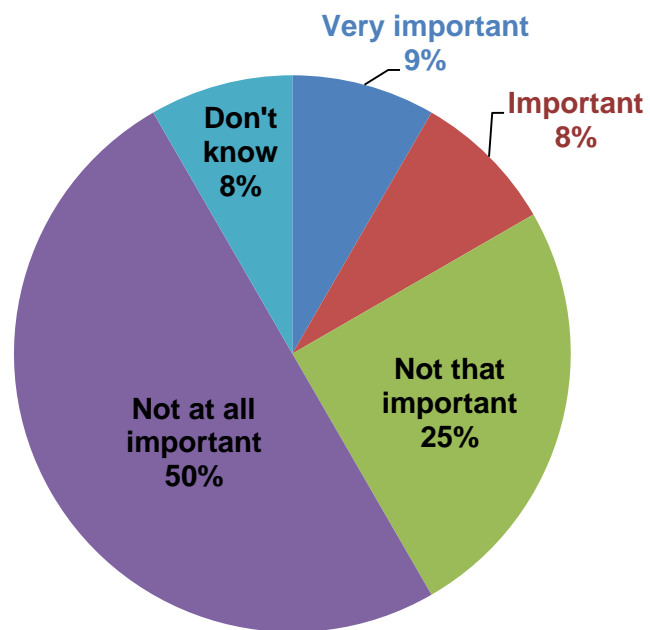
a. Ensuring the UK develops a supply of gas to meet its national needs?



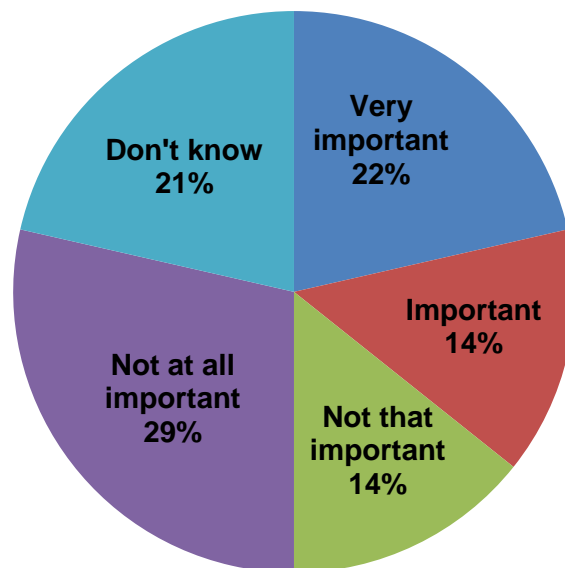
b. Reducing the UK's reliance on oil and gas imports?



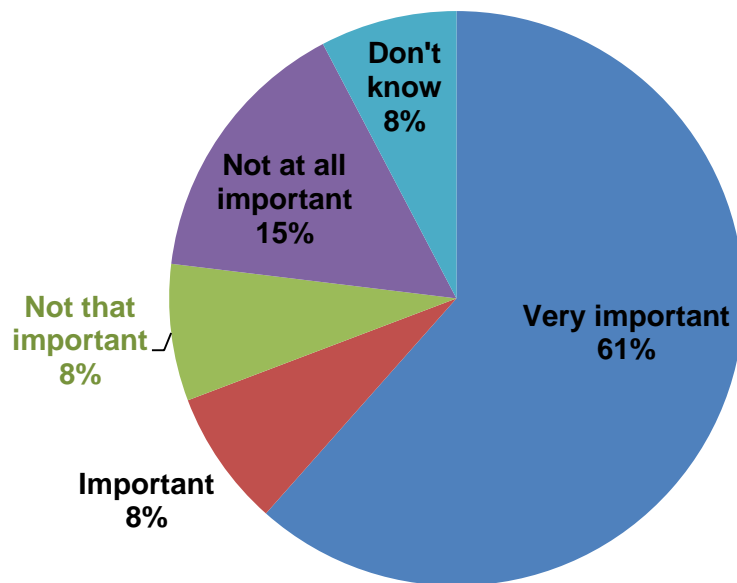
c. Promoting the use of gas to complement renewable energy sources (i.e. solar)



d. Developing more renewable sources to tackle climate change (i.e. wind)



e. Creating employment opportunities and rejuvenating local communities



Do you have any additional comments about the proposals or the exhibition that you would like to share?

- We will keep up-to-date via the website
- It was very interesting
- Need to learn more about the process of hydraulic fracturing and its impact on Environmental and Social aspects in the countries who currently frack before beginning this process
- Concerned about wildlife, water contamination, noise from drilling and heavy traffic, danger and possible pollution from any waste
- Shale gas extraction is not safe
- Marsh Lane does not want fracking

6. Responding to the Feedback

This section of the report sets out a summary of the feedback received during the pre-application consultation period. All feedback has been recorded and analysed to enable the project team to understand and respond to issues raised.

The following section explores this feedback in more detail:

Category	Comment / Question	Response
Location of site	Is it possible to find a site away from the housing?	As part of the site selection INEOS has sought to ensure that, wherever possible, sites are located away from main residential areas. In this case, the nearest residential properties are Ten Acres Farm, at approximately 300m to the north east of the operational area of the site and Heatherlee Farm approximately 320m to the west.
Ecology	INEOS must guarantee that there will be no harm to wildlife.	INEOS has undertaken a thorough survey of the potential ecological assets of the application site. The Environmental Report (Chapter 4) presents the results of this survey and confirms that the scheme will not have any significant effect on biodiversity interests.
Geology and Contamination	The area has been heavily mined and there is a risk of gas seepage and land instability.	The Environmental Report (Chapter 7) has taken account of the historic mining activity in the area and confirms that there are no adverse impacts in this regard. Further, <i>The Proposal</i> document describes the embedded mitigation that will prevent any unintentional release of ground gases to the air or aquifers.
Air Quality	The traffic movements will have an adverse impact on air quality.	The Environmental Report (Chapter 9) recognises that whilst there is potential for emissions from vehicles and equipment, they will be small in volume and occur over a temporary period. These emissions will not have a material effect on local air quality. The amount of emissions generated do not trigger the need for a formal air quality assessment.

Traffic / suitability of site access	The application will need to confirm the route for any heavy construction traffic.	The Environmental Report (Chapter 3) includes a draft Traffic Management Plan ('TMP'), which would form the basis for a plan to be approved pursuant to a condition attached to the grant of planning permission. The TMP would set out the framework for managing site traffic, and in particular Heavy Goods Vehicles (HGVs), to minimise impacts on local communities.
	Concern about the potential removal of gas from the site and impacts on the highways network.	The Proposed Development relates to the exploration stage and exploratory core well only and, as a result, there will be no removal of gas from the site as a result of this planning application.
	The scheme will generate unacceptable levels of traffic and will have an adverse effect on the safety of school children.	The Environmental Report (Chapter 3) includes a traffic and transport appraisal to assess the impact of the proposal on traffic flows and highway safety. The assessment concludes that the proposal will not have a material impact on the highway network that will be utilised as part of the route and will not cause impacts on pedestrian or highway safety.
Water environment	There is a risk of chemical pollution leeching into the soil and the water table.	The Environmental Report (Chapter 7) confirms that the proposed drilling method has been frequently implemented in the UK and contains barrier mitigation and monitoring approaches to minimise the risk to hydrogeology. Embedded mitigation measures will also be implemented to prevent groundwater pollution from spillages and the handling/management of drilling fluids and cuttings.
Noise	The scheme will give rise to unacceptable levels of noise.	The Environmental Report (Chapter 2) has assessed the worst-case impacts of the Proposed Development. This assessment shows that the noise will be temporary and below the threshold levels. As such, there is not anticipated to be an adverse effect on quality of life.
Employment	The employment benefits of the scheme have been over emphasised.	The Planning Statement (Section 7.3) recognises that at this stage the economic effects of a core well are very limited.

Amenity	The scheme will impact the amenity value and beauty of the area.	The Environmental Report (Chapter 5) includes a landscape and visual appraisal which assesses potential effects of the proposal on the landscape (as a resource in its own right), and on views and visual amenity. This assessment demonstrates that the scheme has limited adverse effects upon the character and appearance of the surrounding rural landscape and the visual amenity of local residents and visitors. The visual effects of the development will be temporary and most noticeably when taller equipment, such as the rig, is on site.
Other	Concerns about impacts on human health.	The potential public health impacts from the proposals are addressed at Section 8.2 of the Planning Statement. Given the need to consider the response as a whole, reference should be made to the Planning Statement.
	A full environmental impact assessment should accompany the planning application.	The applicant submitted a formal request for a Screening Opinion pursuant to Regulation 5 of the Town and Country Planning (Environmental Impact Assessment) Regulations 2011 in January 2017. The Council confirmed that the application does not require EIA on 28 February 2017. The Council's Screening Opinion, concluding that the proposed development is not EIA Development, is enclosed at Appendix 2 of the submitted Planning Statement.

7. Conclusions

This SCI summarises the consultation undertaken by INEOS prior to submission of the planning application for the construction of a wellsite and the drilling of a vertical core well at Land adjacent to Bramleymoore Lane, near Marsh Lane.

As reported in this SCI, INEOS has delivered a number of consultation activities to raise awareness of the development proposals and to enable feedback prior to the submission of a planning application. This included pre-application meetings and public exhibitions in January and April 2017.

All relevant matters raised during pre-application consultation, stakeholder and public consultation have been addressed through the planning application and its supporting documents.

During the planning application process, INEOS will continue to provide updates via its consultation website and respond to any questions made via the contact details provided.

APPENDIX 1
Exhibition Invites

Dear resident,

INEOS Shale is the division within INEOS Upstream Limited dedicated to exploring for gas within the shale layer of rock some 2,500 to 3,500 metres deep underground.

We have identified a potential drilling site close to the village of Marsh Lane near Eckington. We would like to evaluate the underground geology by drilling a vertical well and taking samples of the rocks for laboratory analysis. We are not planning to hydraulically fracture this well. As such we have submitted an environmental screening request to Derbyshire County Council. A formal planning application will follow in due course.

We have entered into pre-application discussions with Derbyshire County Council to discuss potential environmental impacts of the Proposed Development which will be subject to consultation with a number of external bodies. During this process we will undertake community consultation to take account of feedback from local residents. Once this is complete, we plan to submit a full planning application where a further period of comprehensive public consultation will take place before any decision is taken by the appropriate authorities.

Before we submit the Planning Application we wish to hear your views and answer any questions you may have. Accordingly we invite members of your household to a public drop-in exhibition. Members of our team will be available throughout the event.

Venue: **Green Lawns Community Centre**

Date: **31 January 2017**

Address: **Warren Walk, Marsh Lane, S21 5RX**

Time: **Between 14:00 and 20:00**

In the meantime please see our website www.ineosshale.com for information about us and shale gas extraction.

To contact INEOS Shale:

twitter: [@INEOS_shale](https://twitter.com/INEOS_shale)

tel: [+44 \(0\)203 793 8066](tel:+4412037938066)

email: shale.information@ineos.com



Quarry Hill

School Lane

Marsh Lane
Community
Centre

Ford Road

B6056

Main Road

B6056

Snowdon Lane
B6056

Moor Top Road

Long Lane

PROPOSED
SITE LOCATION

Bramley Moor Lane

Lightwood Road

Morton Lane

Long Lane

Morton Lane

Westfield Lane

Ash Lane

Public exhibition

As part of our public consultation process ahead of submitting a Planning Application members of your household are invited to attend a public drop-in exhibition to learn more about our proposal to drill a vertical coring well on land off Bramley Moor Lane, Marsh Lane.

Date: **6 April 2017**

Time: **2-7.30pm**

Venue: **Marsh Lane Community Centre,
Main Road, Marsh Lane, Sheffield,
South Yorkshire, S21 5RH**

www.ineosshale.com

shale.information@ineos.com

Delivered by



Occupier

Address Line 1

Address Line 2

Address Line 3

POST CODE

APPENDIX 2
Newspaper Advert



Public exhibition

INEOS Shale is preparing to make a planning application to temporarily use land off Bramley Moor Lane, near Marsh Lane, to drill a vertical exploratory core well.

The purpose of the well is to extract core samples of rock for laboratory analysis. This will help us to identify the characteristics of the local geology and its potential ability to produce gas. The samples will be taken from a depth of around 2.4km from the surface.

We held our first public exhibition on 31 January. Since then we have been preparing the technical information needed to make the planning application.

We are now holding a further exhibition, which will give you another chance to ask members of our team questions about our proposals and to make your views about the proposal known.

Date: **6 April 2017**

Time: **2-7.30pm**

Venue: **Marsh Lane Community Centre,
Main Road, Marsh Lane, S21 5RH**



www.ineosshale.com

shale.information@ineos.com

APPENDIX 3
Feedback Forms

Proposed Temporary Exploratory Wellsite, Bramley Moor Lane, Marsh Lane.

Thank you for taking the time to attend this Ineos event. In order to record your views and improve the effectiveness of our community engagement, please complete this short feedback form.

Facilitating Change are undertaking analysis of the community engagement for Ineos. It is important for Ineos to take into account the views of local people when developing a planning application.

Please take a few minutes to answer the following questions and return it to a member of our team. This is an anonymous survey (unless you decide to provide us with your details). The results will be summarised and used to inform the planning application, together with the responses from other engagement activities.

Q1. How would you describe your knowledge of Ineos?

Please ✓one box only

1. I am very well informed	2 Know a lot	3. Know a little	4. Know very little	5. Know nothing at all
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q2. How would you describe your knowledge of the processes required to understand the geology of the local area? i.e Core well drilling

Please ✓one box only

1. I am very well informed	2 Know a lot	3. Know a little	4. Know very little	5. Know nothing at all
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q3. Has the need for Shale Gas Exploration been clearly explained?

Please ✓one box only

1. Yes	2 No	3. Unsure
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q4. If temporary Core Well drilling goes ahead what effect do you think it will have on:

Please ✓one box only for each category below	1. Positive / good effect	2. Neutral / no effect	3. Negative / bad effect	4. Not sure
Visual impact of the drilling rig	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vehicle movements to & from the site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local economy / Community Benefits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light pollution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Contamination of ground water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Noise from operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UK economy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operational safety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of UK energy supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q5. Do you have any specific concerns that you feel Ineos need to address in this planning application?

Please write in below

Please turn over

Q6. Overall, how would you describe your reaction to **this specific planning application**?

Please ✓one box only

1. Support	2. Neither support nor object	3. Object
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q7. Overall, how would you describe your reaction to **Shale Gas Exploration** in the UK?

Please ✓one box only

1. Support	2. Neither support nor object	3. Object
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q8. And finally, from your experience to date, can you rate the quality of community engagement undertaken by Ineos on their **Shale Gas Exploration activities** in the UK?

1. Excellent opportunity	2. Quite a good opportunity	3. Neither a good nor a poor opportunity	4. A poor opportunity	5. A very poor opportunity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please write in any further comments you would like to make about the engagement process as a whole. We welcome suggestions about how best to engage with local communities. If you have any suggestions about how best to engage with your local community please let us know.

To make sure we speak to people from across the whole community, please can you tell us a little bit about yourself.

Are you: Please ✓one box only	
Male	<input type="checkbox"/>
Female	<input type="checkbox"/>

How old are you? Please ✓one box only	
Under 16yrs	<input type="checkbox"/>
16-24yrs	<input type="checkbox"/>
25-39yrs	<input type="checkbox"/>
40-59yrs	<input type="checkbox"/>
60 plus	<input type="checkbox"/>

Are you? Please ✓one box only	
Employed	<input type="checkbox"/>
Retired	<input type="checkbox"/>
Self employed	<input type="checkbox"/>
Other:	

If you would like to be kept informed of progress on the project please tick this box ☐
Your details will not be used for any other purpose

Name:	
Address:	
Postcode	
Email:	

(Only provide your email address if you wish to be contacted by email)

- Any information given on this form will be used and published anonymously as part of any future consultation report. By completing this feedback form you consent to Ineos using the feedback for this purpose.
- By providing contact details you consent to Ineos contacting you in relation to this proposal.
- Comments made to Ineos are not representations to the consenting authorities who will consider future planning applications. The opportunity for lodging representations with them will be when any future application is formally submitted for consideration.

This form and all information provided at the event can be downloaded from the website: www.ineos.com

Thank you for taking the time to complete this form. Please hand your completed form to a team member at the event or return it by post.

Post: FREEPOST: RSTS-TAAY-CLLU
Facilitating Change (UK) Ltd, PO Box 15047, Dunblane. FK15 9YB

Please submit any comments to Facilitating Change by Friday 10th February 2017

Comment Form

INEOS
Shale

PEDL 300 Exploratory Wellsite off Bramley Moor Lane, Marsh Lane
Public Consultation
2.00pm – 7.30pm 6 April 2017

Thank you for visiting our public consultation event.
We would appreciate if you could share your feedback on what you have seen today.

1. HOW DID YOU FIND OUT ABOUT TODAY'S PUBLIC EXHIBITION?

- | | | | |
|----------------------------|--------------------------|----------------------|--------------------------|
| Letter and leaflet | <input type="checkbox"/> | Other (please state) | <input type="checkbox"/> |
| Article in local newspaper | <input type="checkbox"/> | | |
| Word of mouth | <input type="checkbox"/> | | |

2. WHAT DO YOU THINK ARE THE MOST IMPORTANT ISSUES FOR INEOS TO CONSIDER AS PART OF ITS TEMPORARY EXPLORATORY APPLICATION? PLEASE RANK IN ORDER OF IMPORTANCE WITH 1 BEING THE MOST IMPORTANT.

- | | | | |
|--|--------------------------|------------------------------------|--------------------------|
| Vehicle movements to and from the site | <input type="checkbox"/> | Protection of groundwater aquifers | <input type="checkbox"/> |
| Visual impact of drilling rig | <input type="checkbox"/> | Noise from operations | <input type="checkbox"/> |
| Operational safety on site | <input type="checkbox"/> | Other (please state) | <input type="checkbox"/> |
| Light pollution | <input type="checkbox"/> | | |

3. TAKING INTO CONSIDERATION FACTORS SUCH AS PROXIMITY TO THE HIGHWAY NETWORK, NATURAL SCREENING AND SEPARATING DISTANCE FROM NEARBY PROPERTIES, DO YOU AGREE THAT THIS LOCATION IS ACCEPTABLE FOR TEMPORARY EXPLORATION OF HYDROCARBONS? (please circle)

Strongly agree	Agree	Neither Agree or Disagree	Disagree	Strongly Disagree
----------------	-------	---------------------------	----------	-------------------

4. WHAT SECTIONS OF THE PUBLIC EXHIBITION HAVE YOU FOUND THE MOST USEFUL TODAY?

- | | | | |
|----------------------|--------------------------|------------------------------|--------------------------|
| About INEOS Shale | <input type="checkbox"/> | The Case for Shale Gas | <input type="checkbox"/> |
| Location plans | <input type="checkbox"/> | Environmental considerations | <input type="checkbox"/> |
| Project background | <input type="checkbox"/> | How will this affect me? | <input type="checkbox"/> |
| Proposed development | <input type="checkbox"/> | Next steps | <input type="checkbox"/> |

5. HOW BETTER INFORMED DO YOU FEEL ABOUT INEOS'S PROPOSALS AFTER TODAY'S EXHIBITION?

Very informed	Somewhat informed	Not that informed	Not at all informed
---------------	-------------------	-------------------	---------------------

Comment Form

INEOS
Shale

6. HOW IMPORTANT DO YOU RATE THE FOLLOWING ISSUES? (circle as appropriate)

- Ensuring the UK develops a domestic supply of shale gas to meet national needs

Very important Important Not that important Not at all important Don't know

- Reducing the UK's reliance on gas imports

Very important Important Not that important Not at all important Don't know

- Promoting the use of shale gas to complement renewable energy sources (i.e. solar)

Very important Important Not that important Not at all important Don't know

- Developing more renewable energy sources to tackle climate change (i.e. wind)

Very important Important Not that important Not at all important Don't know

- Creating employment opportunities and rejuvenating local communities

Very important Important Not that important Not at all important Don't know

7. DO YOU HAVE ANY ADDITIONAL COMMENTS ABOUT THE PROPOSALS OR THE EXHIBITION THAT YOU WOULD LIKE TO SHARE?

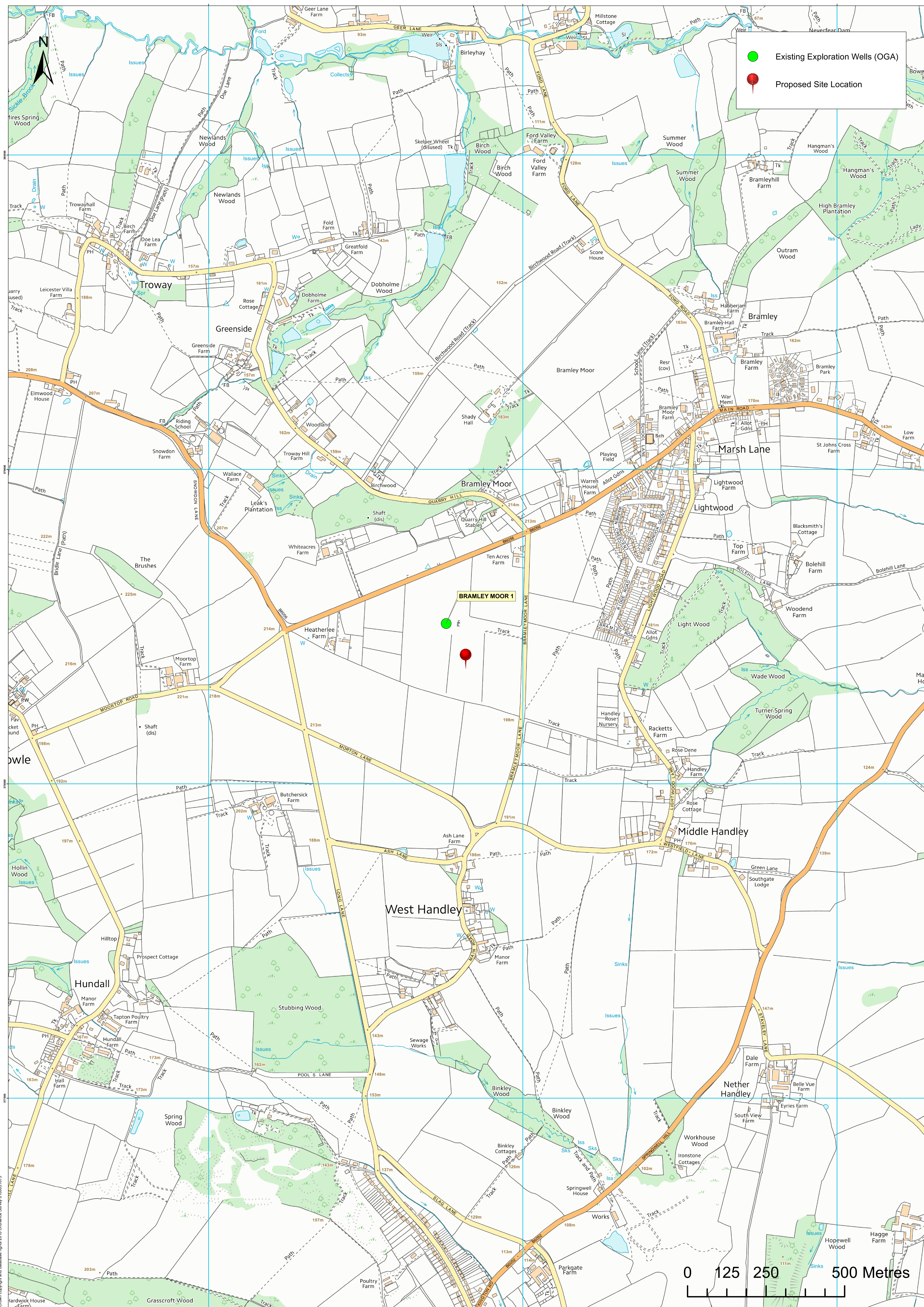
8. TO HELP US ANALYSE THE FEEDBACK RECEIVED, PLEASE COULD YOU CONFIRM THE FOLLOWING ABOUT YOURSELF (circle as appropriate)

Gender: M/F

Age: 18-25 26-34 35-44 45-54 55-64 65+

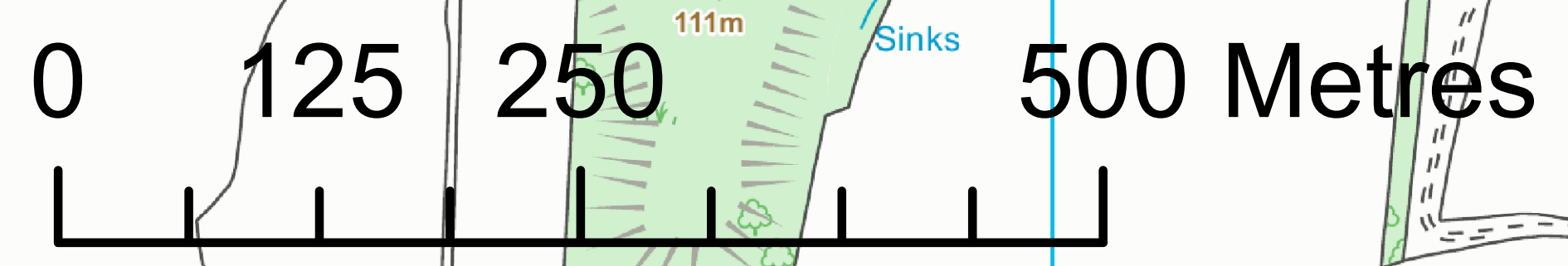
Postcode:

APPENDIX 4
Exhibition 1 Banners

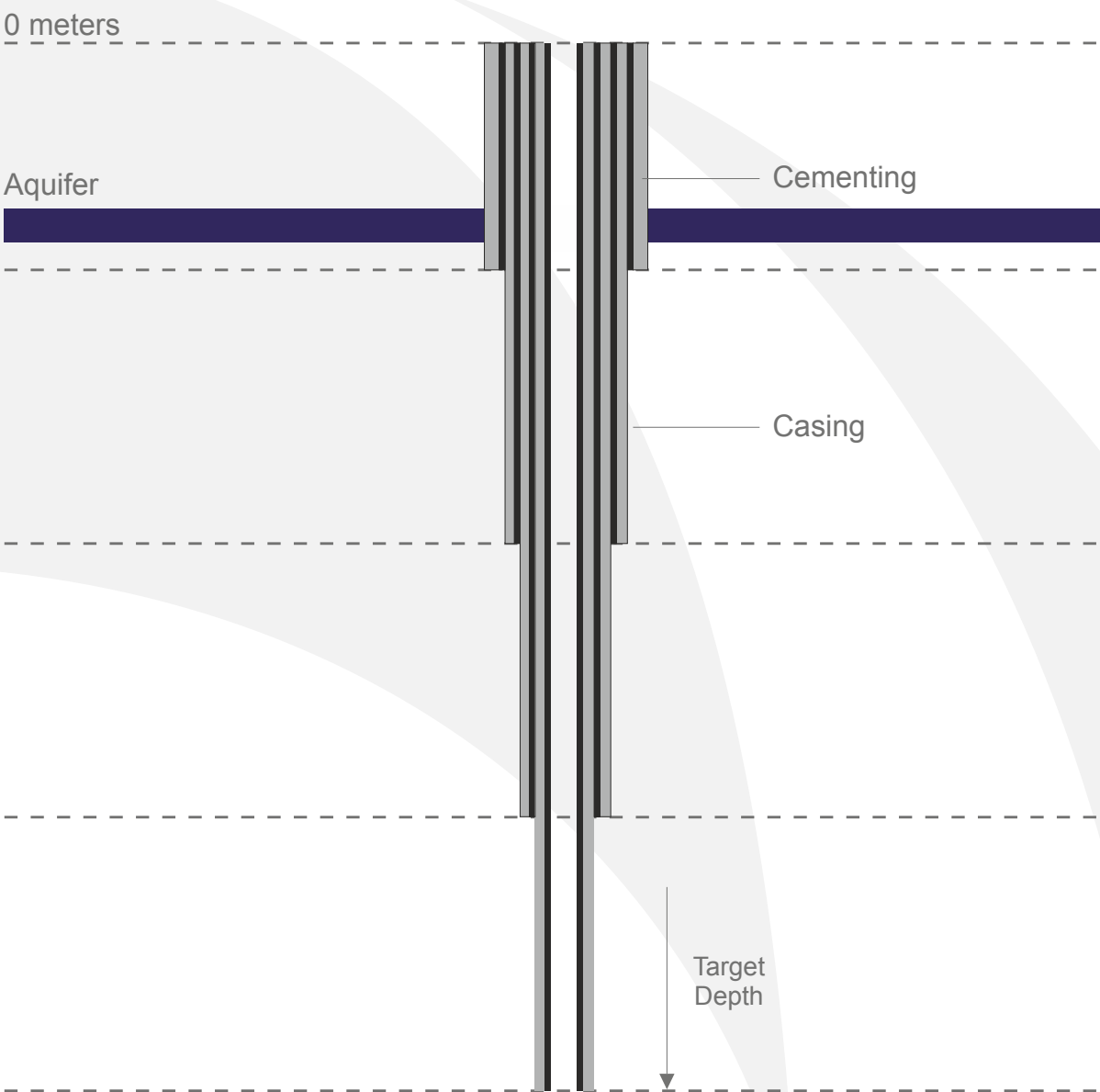


Existing Exploration Wells (OGA)

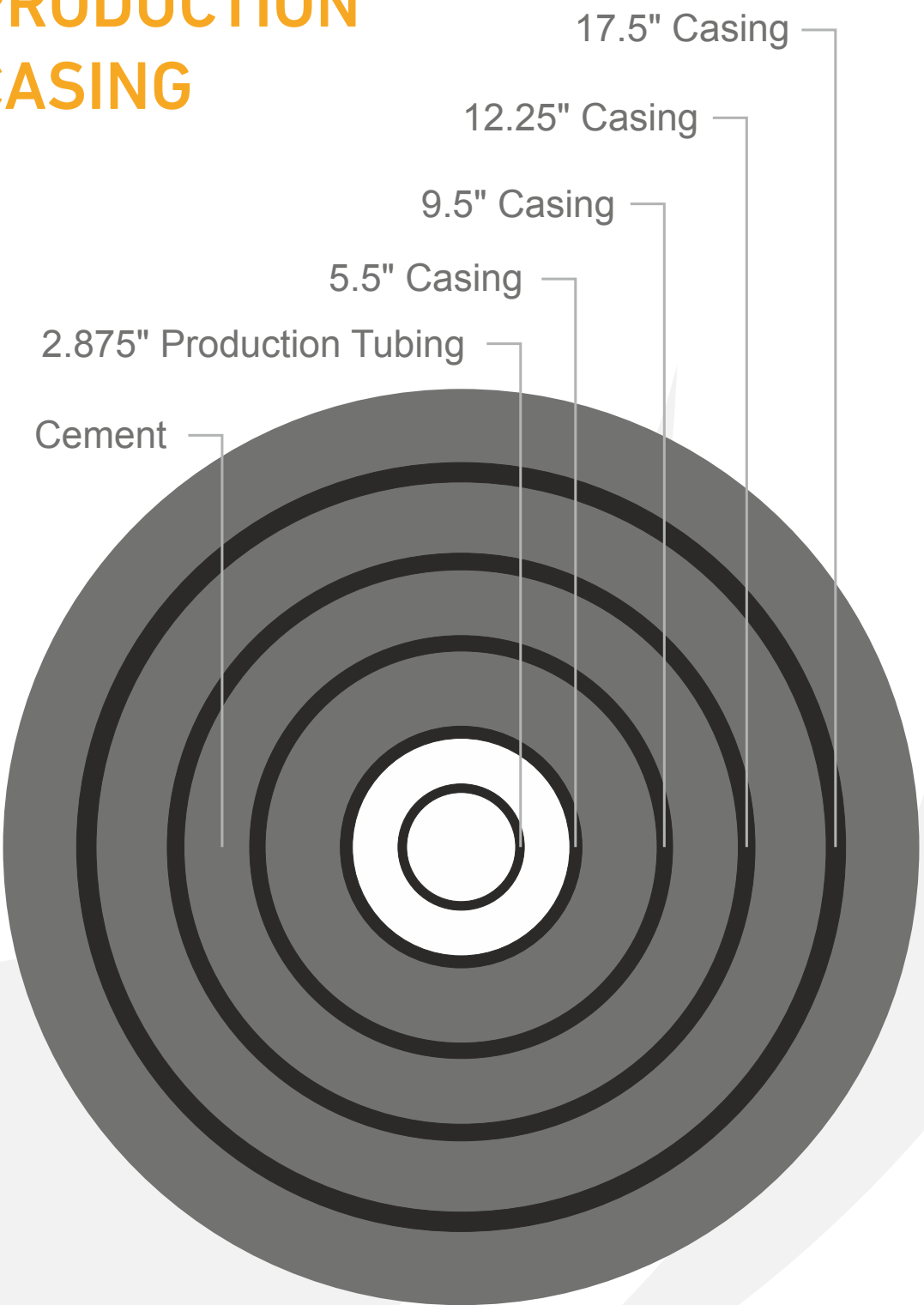
Proposed Site Location



WELL PROTECTION



PRODUCTION CASING



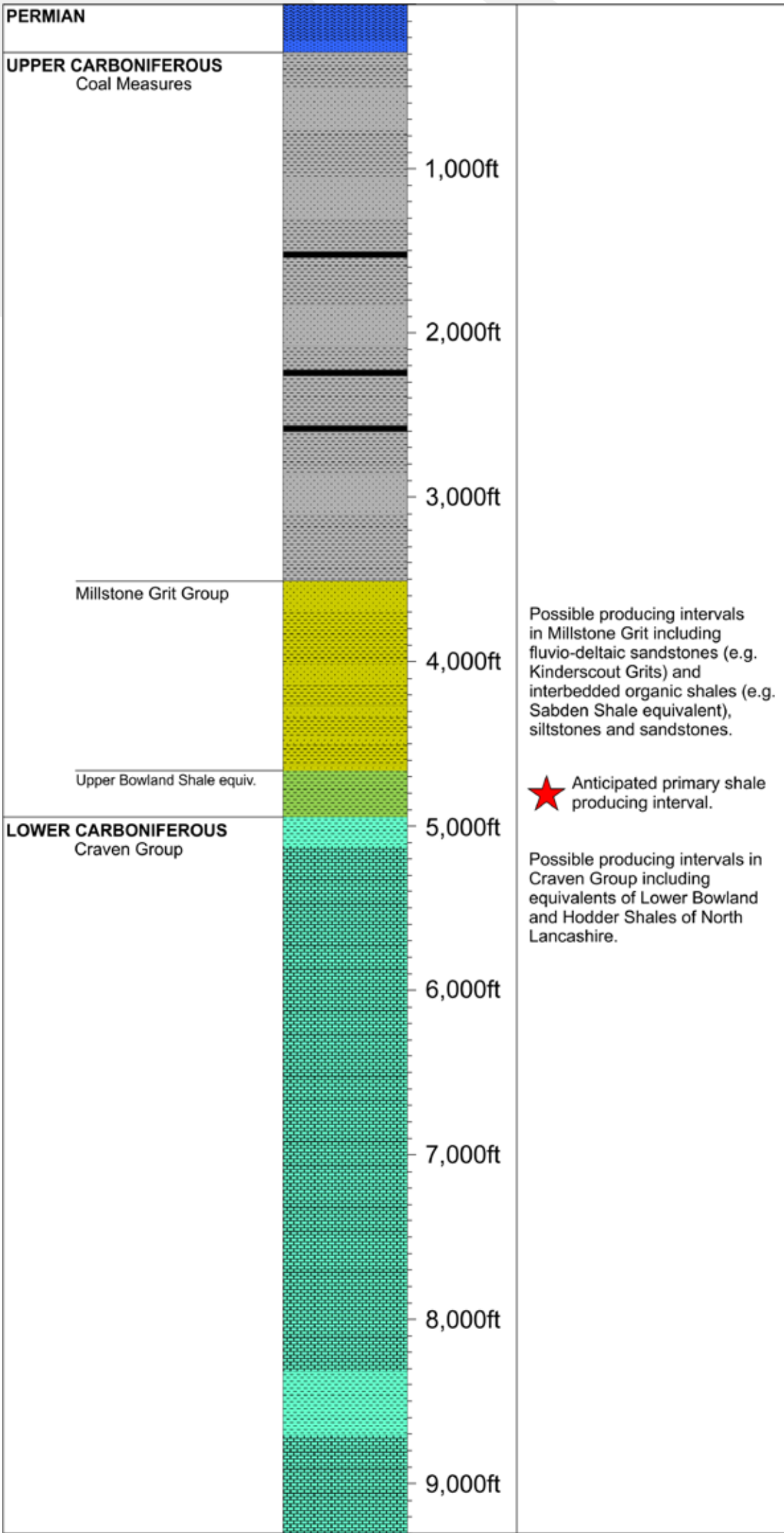
WELL PROTECTION



INEOS
Shale

GEOLOGY

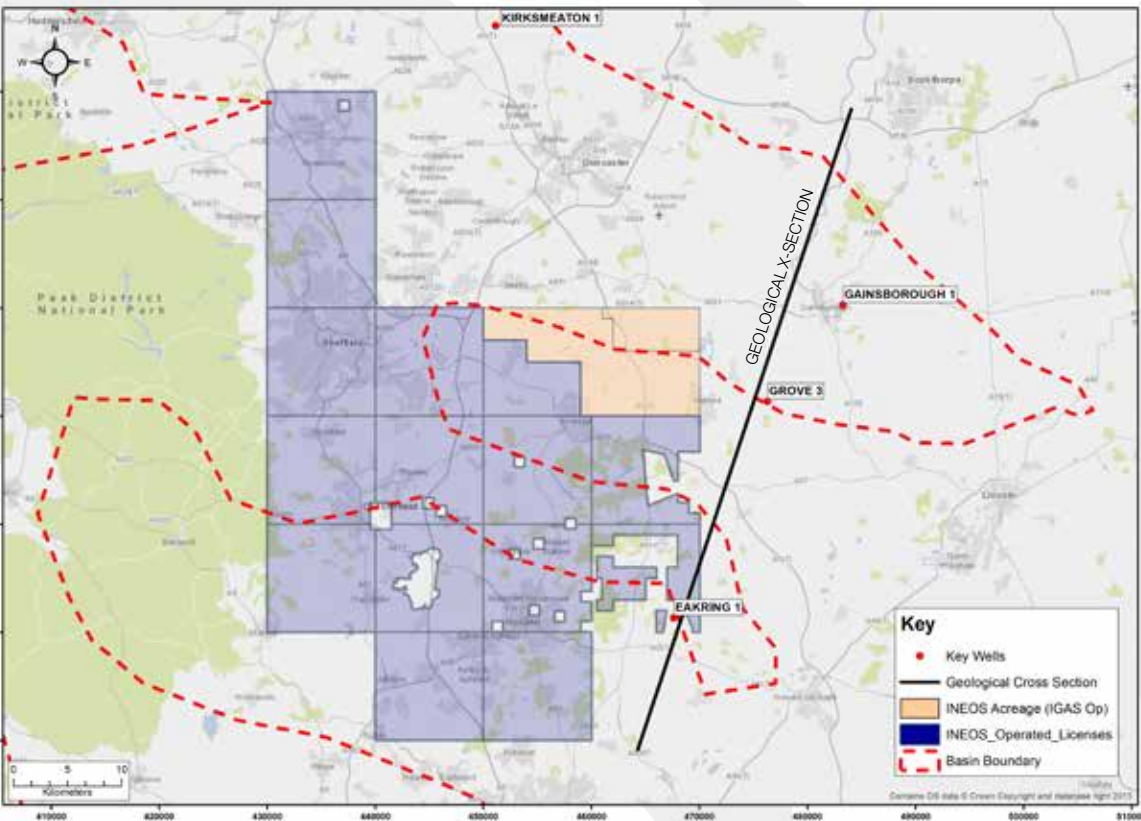
EAST MIDLANDS



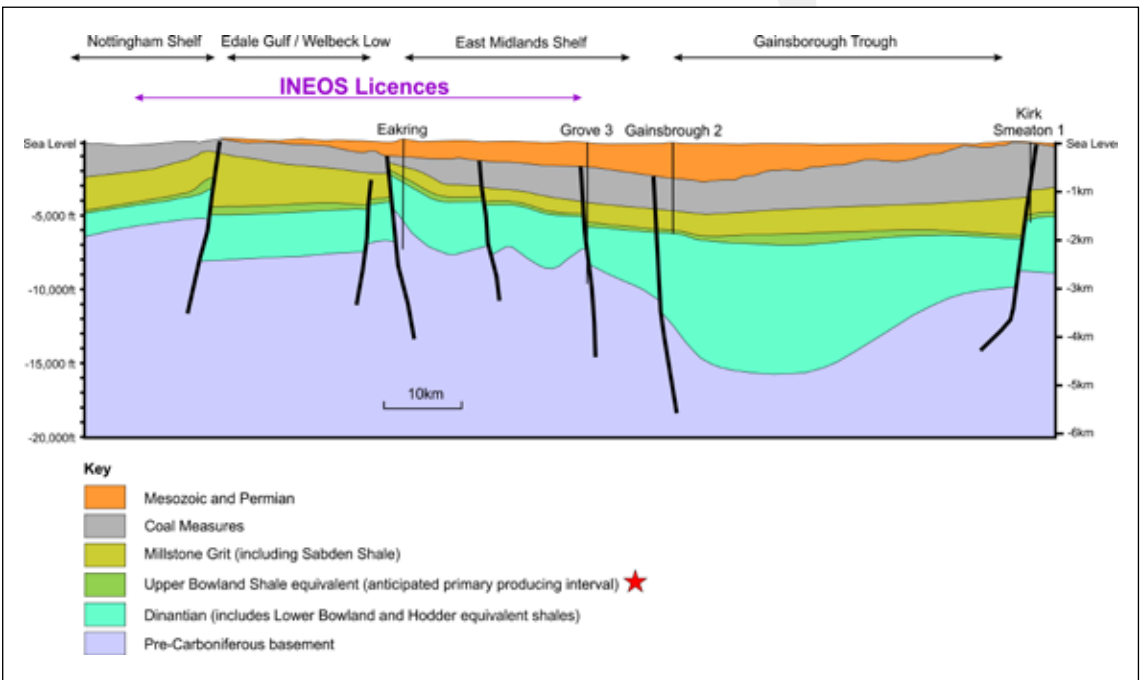
Stratigraphic column

GEOLOGY

EAST MIDLANDS



Location map



Geological X-sections

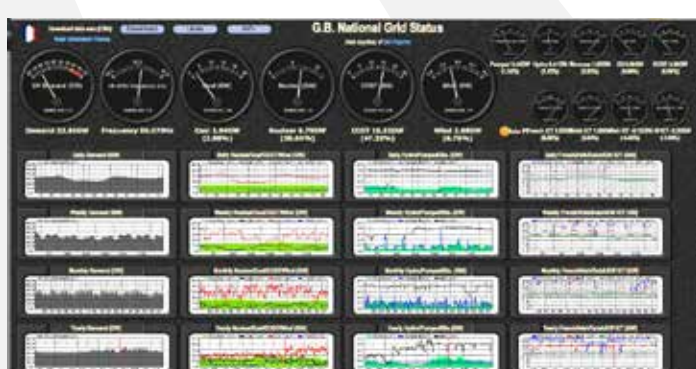
WHY DO WE NEED GAS?



For Heating (80% of homes use gas central heating)

For Cooking (30% of homes cook on gas)

For a stable electricity supply - gas provides flexibility to balance intermittency from renewables



For Industry

- as an energy source
- as a raw material to make chemicals and plastics

For the Renewable Energy Industry

- Wind, solar and tidal all rely on specialist chemicals produced from gas
- Without gas there wouldn't be a Renewable Energy industry



INEOS
Shale

INEOS

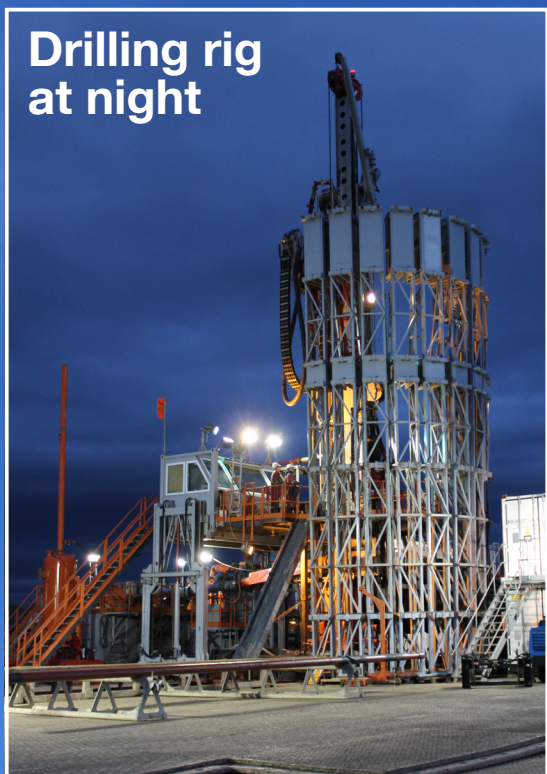
- Is a global manufacturer of petrochemicals, speciality chemicals and oil products
- Comprises 18 businesses each with a major chemical company heritage
- 65 sites in 16 countries throughout the world
- Employs 17,000 people world wide
- 7 sites in the UK employing 4,000 people
- Produces raw materials for manufacturing businesses used in medicines, clothes, construction, cars computers and green technologies.



INEOS
Shale

DRILLING

Drilling rig
at night



Core sample



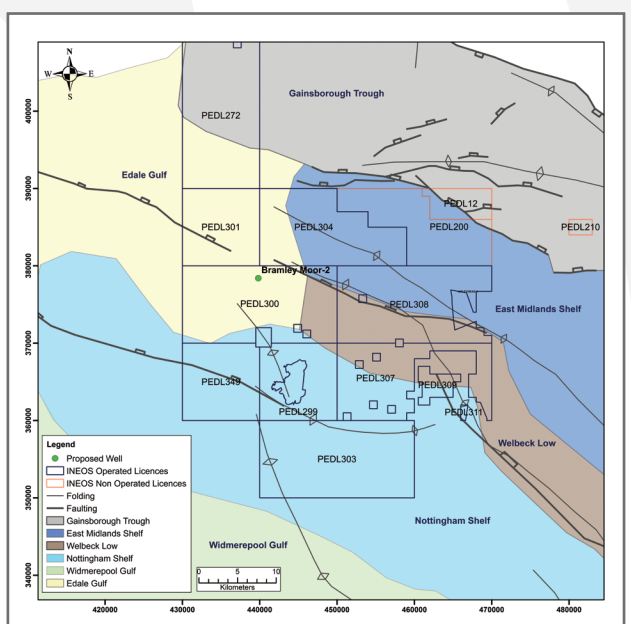
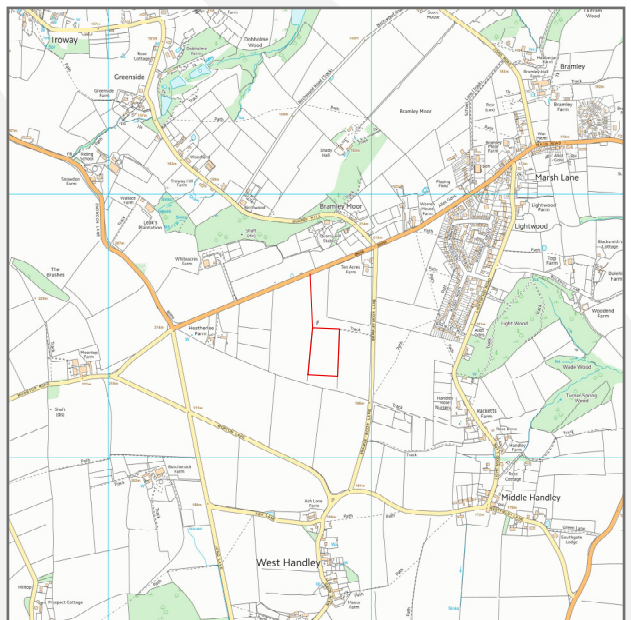
Drilling rig



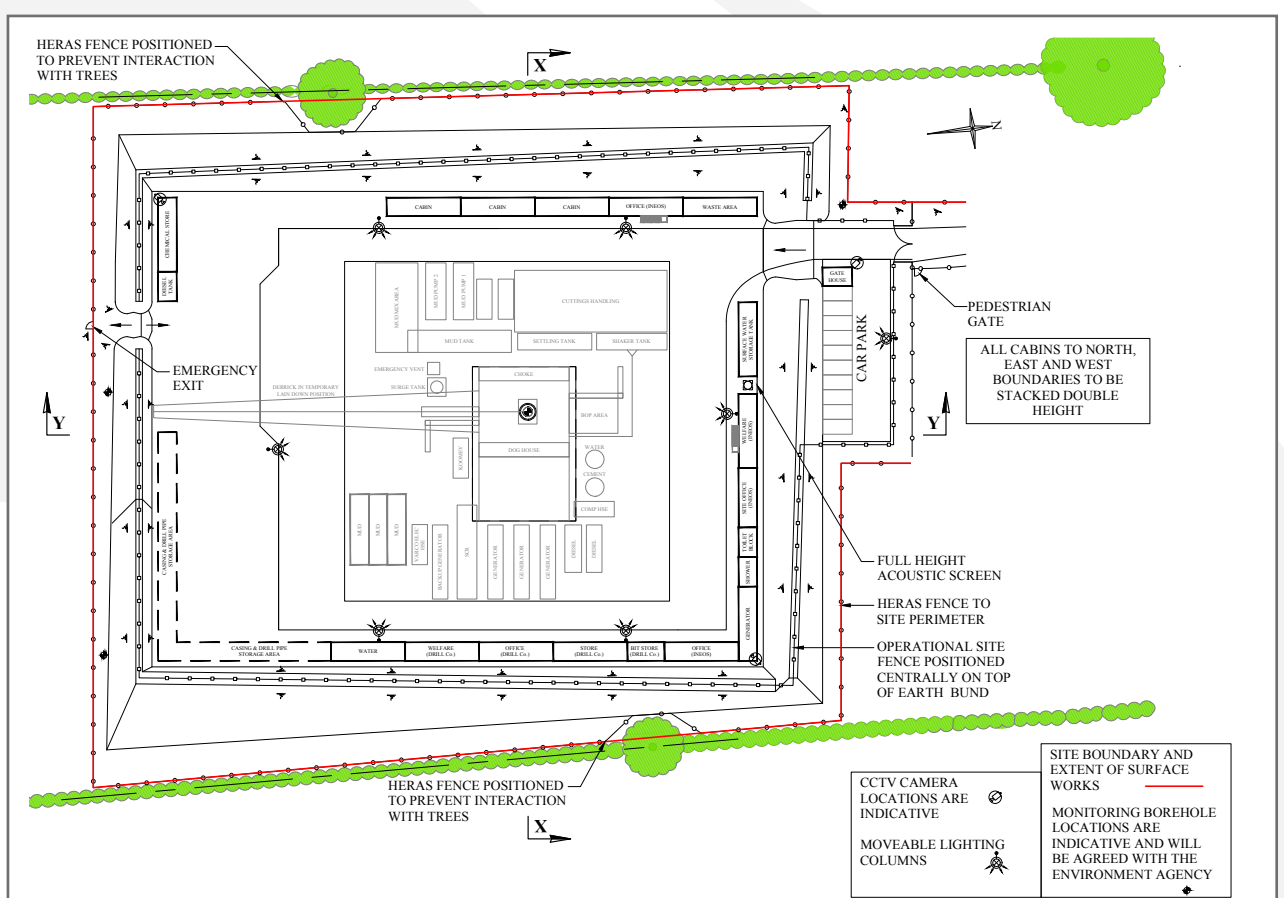
INEOS
Shale

APPENDIX 5
Exhibition 2 Banners

The site off Bramley Moor Lane was chosen following analysis of existing geophysical and borehole data.



- Environmental designations and scheduling
- Agricultural land
- Restrictions in Local Plans
- Groundwater protection zones
- Flood risk areas
- Possible presence of protected species
- Local residences and buildings such as schools and hospitals.



Stages over the proposed five-year life of the site.

The plan shows the site at **Stage 2**.

Stage 1: Site Development and Establishment – approx. three months

Stage 2: Drilling and Coring – approx. three months

Stage 3: Maintenance of the Suspended Well Site – retained until restoration

- **Stage 3a:** Possible workover of the Suspended Well – up to three weeks

- **Stage 4:** Possible Listening Well operations – up to three weeks

*Only if
required*

Stage 5: Well decommissioning and site restoration – approx. two months.

Safety

- Well safety equipment will include a blow-out preventer, vent for emergency venting of gas and methane and radon monitoring
- Emergency response plan would be in place
- Pollution prevention measures including bunding, spill kits and training of staff.

WELL DECOMMISSIONING AND SITE RESTORATION



Stage 5: Well decommissioning and site restoration

Well decommissioning

- Mobilisation of workover rig (up to 32m) with lighting, generators and low-level kit
- Cutting the casing 2m below ground level and plugging the well using cement in accordance with the Borehole Regulations.

Site restoration

- Removal of site hardstanding, concrete pad and cellar
- Removal of drainage perimeter pipe and site membrane
- Replacement of soils onto site in appropriate weather conditions
- Restoration of site to previous use (agriculture) including reinstatement of field drains
- Restoration of road modifications as agreed with landowner and Highways Authority.

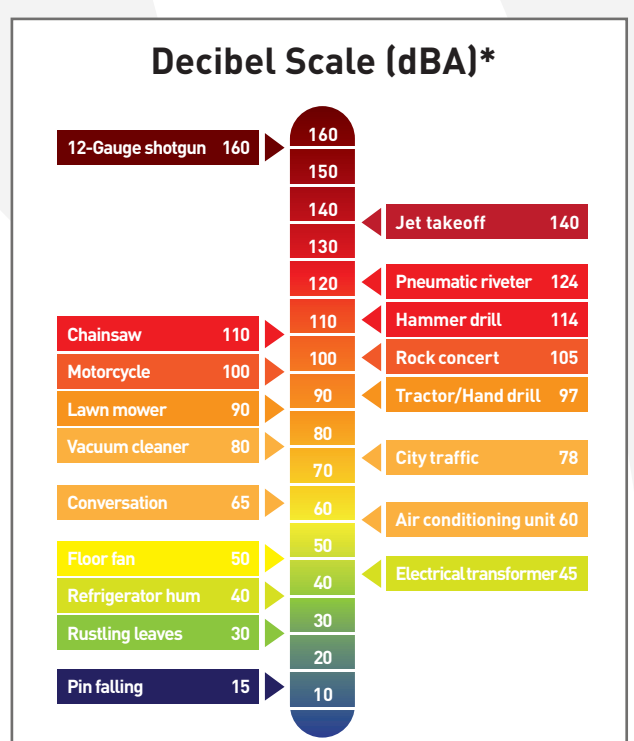
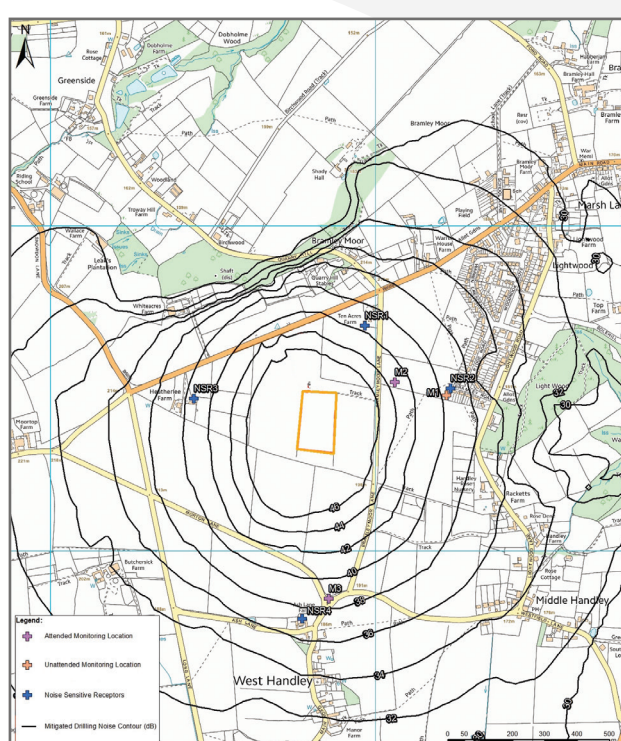
NOISE IMPACTS

A noise assessment was undertaken covering construction, drilling and coring activities.

Construction noise may be audible at times but will not exceed regulatory thresholds.

Noise from construction traffic likely to be imperceptible from existing traffic noise.

The proposal has no significant adverse impacts to quality of life.



The project has been designed to have noise levels within the night time noise threshold of 42dB. This is also well within the evening and daytime noise thresholds at the nearest house.

Mitigation measures:

- Use of bunds, screens and double stacked cabins
- Positioning and rotating equipment;
- Use of silencers, low noise equipment or enclosures
- Management of vehicle movements and audible vehicle reversing alarms
- Regular maintenance to minimise noise generation.

TRAFFIC MOVEMENTS

- <7.5 Tonnes (light vehicles and crew buses) c.31%



- >7.5 Tonnes (HGV's) c.68%



- Abnormal loads c.1%.




- Maximum daily HGV movements 60 (30 vehicles)

Stage	Movements*	Average Daily	Peak Daily	Total days
Construction	2,200	26	70	84
Drilling, Coring & Suspension	2,500	30	70	84
Restoration	1,700	40	60	42
Intervention**	450	28	51	16
Listening operation**	500	24	47	21

* Movement equals one journey into site and one journey off the site. Divide by two for number of vehicles.

**Intervention and Listening Operations only if required.

NEXT STEPS

- 
- Consider feedback from exhibition
 - Pre-application discussions with County Council
 - Finalise application documents
 - Submit planning application
 - County Council public and regulator consultation
 - Officer report on application
 - Presentations to Planning Committee by company and supporters/objectors
 - Decision made on application.

Measures to protect the environment

Easements for utilities

A 3m standoff from pipelines. Underground cabling will be fenced off. Easements of 3m for overhead powerlines and 1m from roads will also be maintained for all works. A full utility search will be carried out at the site.

Surfacing and lining of site

The site will be lined with a protective geotextile and impermeable geomembrane covered with aggregate. The liner will be installed by a specialist subcontractor and weld jointed to ensure it is watertight. A concrete pad/hardstanding and wellhead cellar will be developed in the site centre for the rig and core well. These will be bunded and separate from the site perimeter drainage system. The cellar will be welded to the membrane to maintain membrane integrity.

Chemical storage

Drilling muds and fuel for the rig and generators will be stored in double skinned steel tanks. Drip trays will be provided under refuelling points and standing machinery.

Site drainage

Surfaces graded to 1/100 fall to ensure that fluids do not pool and become a hazard. Site and drainage sized for a 1 in 100 year flood event. Surface water run-off from the drill floor or spilled fluids will be channelled to a dedicated tank. Surface water run-off from the remainder of the site will flow to a drainage and water storage pipe at the perimeter and collect in a sump/catch pit from where it will be pumped into a double skinned tank. Drainage pipework installed and backfilled with granular material in layers to required depths. Catch pits formed with uPVC inspection chambers and covers. All water will be removed from the site for treatment.

Public Road

Junctions would have appropriate visibility splay for the largest site vehicles.

Boundary treatments

A 2 m high Heras security fence, painted in a recessive colour, will be provided around the site perimeter, which will be anchored in the ground. Between the fencing and the site compound, soil bunds up to 2m high and 6m wide with 45 degree batters will be constructed. The bunds will be covered with a grass seeded geotextile blanket. 2m high security fencing will be placed on top of the bund.

Lighting and security

Low level security lighting will be present on the site throughout the lifetime of the permission. This will include a mobile unit with sensor at the main gate (only externally facing light), and mobile, sensor controlled units to light the compound floor as needed (approx. 5-9 m tall). Lights will be designed to have minimal upward light output rating. Lighting will be angled down and into the site. CCTV will be installed at the site.

Waste management

All waste materials and fluids will be stored in dedicated areas. Any skips would be covered to prevent wind blow of litter or dust.

GENERIC FEATURES OF THE PROPOSED VERTICAL CORE WELL SITE THAT WOULD BE CONSTANT THROUGHOUT OPERATIONS

N.B. Photograph shows features that would not be present throughout operations, but illustrate a standard, similar site at one stage (drilling – Stage 2).

Features of the vertical core well site during construction

Vegetation removal and stripping topsoil

All soil will be kept separate from other construction activities for restoration. Top 300mm of topsoil will be used for bunding.

Lighting

During construction site lighting will be supplemented with additional mobile, construction lighting masts.

Monitoring boreholes

Installed to allow ongoing monitoring of groundwater.

Site area

The site area has been designed with 1 in 100 falls to channel water to drainage/ water storage on site. Ramps developed for safe access and egress from hardstanding areas. Pedestrian segregation fencing placed on all sides of hardstanding area. Concrete pad developed in centre of site for rig. Drilling platform will comprise 300mm deep reinforced concrete strips lying on waterproof HDPE liner and geotextile membrane.

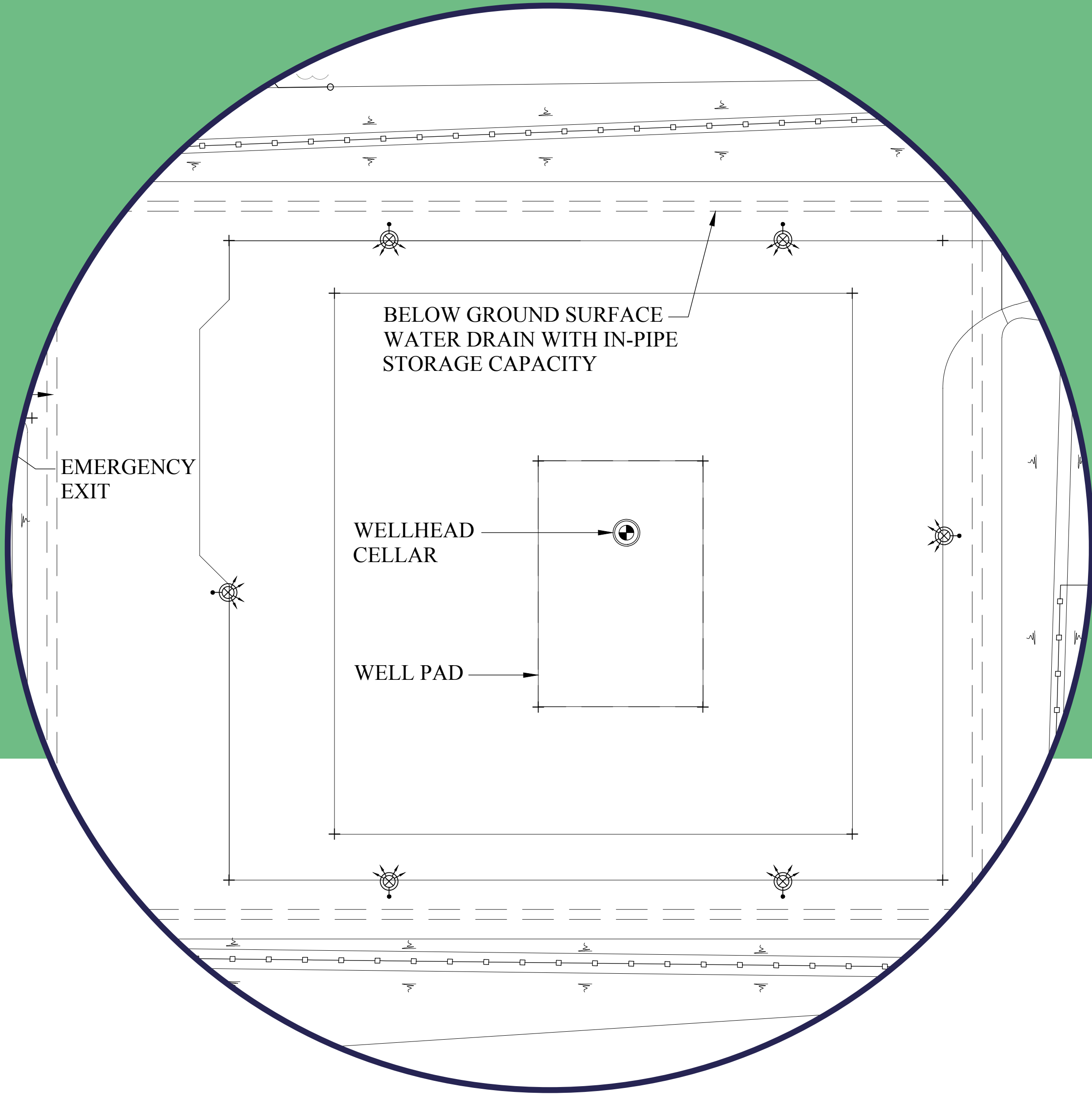


Cut & fill

If the site requires to be levelled, cut and fill may be required. The ground profiling required will be determined at the detailed site design stage and would not affect timings or numbers of plant and equipment required. A balance of cut and fill will be established to keep 'cut' material on site.

Soil bunding

2m high x 6m wide soil bunds formed from topsoil scraped from the site. Subsoil will be stored separately if required. Soil bunds will be grassed with a seeded geotextile blanket to improve stability and provide visual as well as acoustic screening.



Accommodation and welfare facilities

Offices and welfare facilities will be provided to accommodate personnel and space for workshops and storage. Site facilities, toilets and shower blocks are self contained and not connected to sewer. Solid and liquid waste are removed from site by licensed contractor as needed.

Features of the vertical core well site during drilling and coring

Additional lighting

Site lighting will be supplemented with additional mobile lighting for the rig floor (5-9m masts) and on the rig mast. This would be angled downwards and into the site and shielded where appropriate.

Drilling fluids

Drilling fluids are used to cool the drill bit and to circulate drill cuttings back to the surface. The fluids will be stored within a closed-loop system comprising mud pumps and mud tanks with cuttings removed as they are circulated from the well.

Safety equipment

The well is not a production well so no flare is proposed on site, though the rig would incorporate a blow out preventer, methane monitoring and an emergency vent, in the unlikely case of an unexpected gas release.

Drilling rig

Up to 60m high. Additional lighting required to light mast and rig floor for night working. The lighting will be low intensity and angled to the floor to prevent overspill and angled away from sensitive receptors.

Vehicle circulation

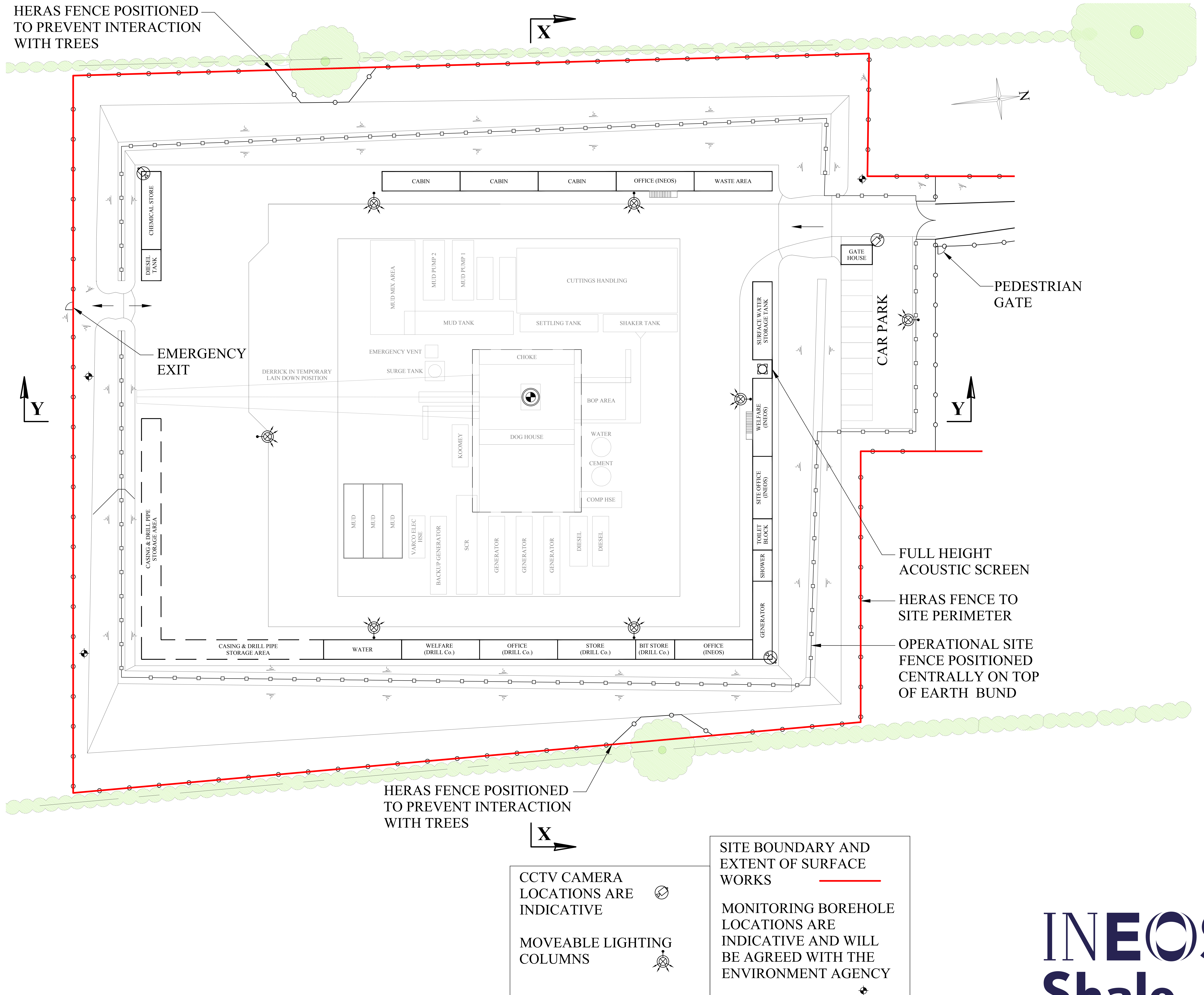
A one-way vehicle circulation system will operate on site.

Cabins

Cabins stacked up to two units high will be placed around the perimeter of the site to provide additional acoustic screening.

Waste

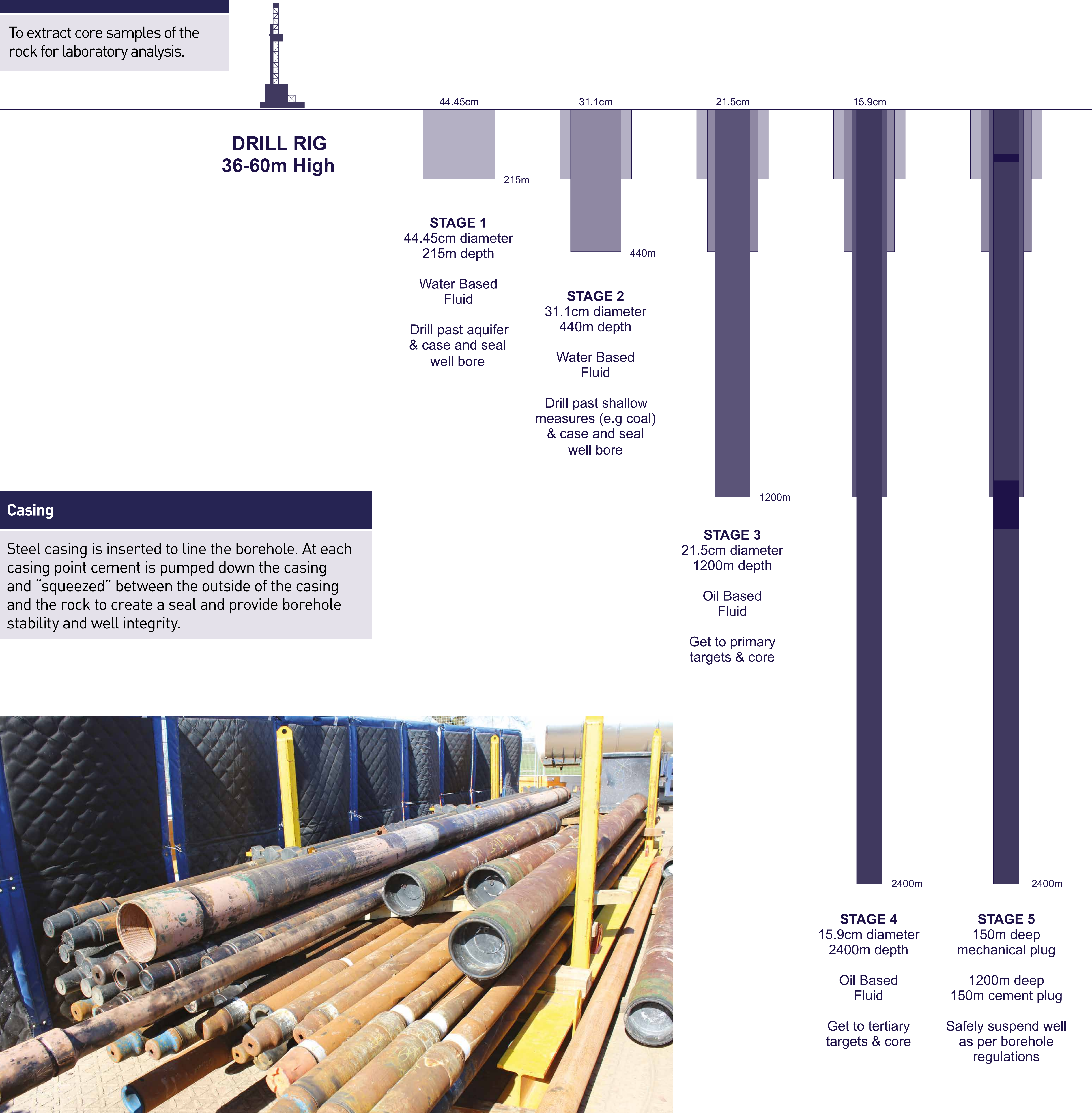
Solid and aqueous waste, including cuttings, waste mud and cement, will be stored in a designated area in enclosed tanks where necessary and removed by a registered waste contractor.



Features of the vertical core well during drilling and logging

Aims of the well

To extract core samples of the rock for laboratory analysis.



Casing

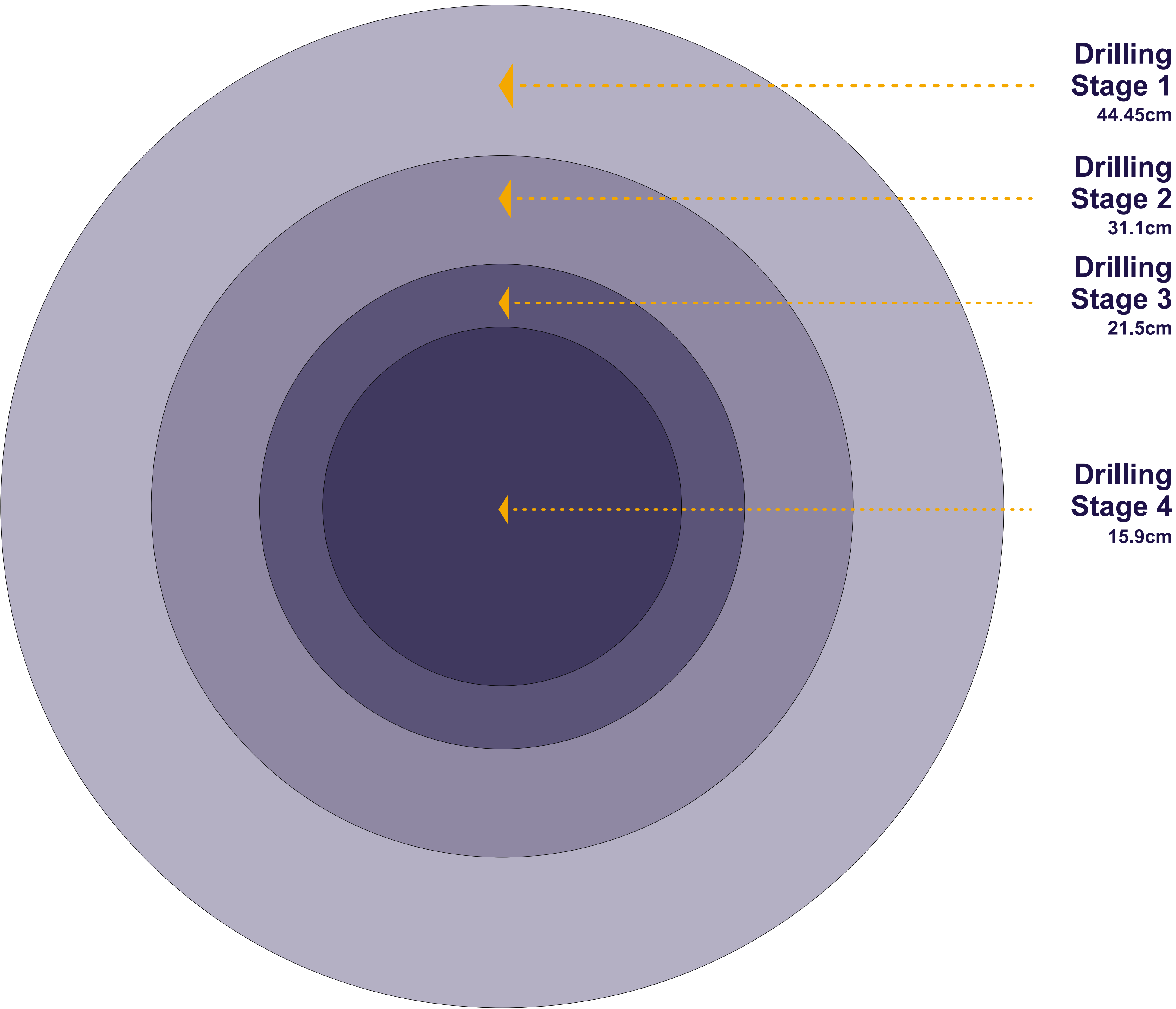
Steel casing is inserted to line the borehole. At each casing point cement is pumped down the casing and “squeezed” between the outside of the casing and the rock to create a seal and provide borehole stability and well integrity.



Drill pipe and casing

Hole size

The deeper the hole gets, the narrower it has to be to allow the casing to be inserted. The initial diameter of the borehole is 44.45cm and steps down in size to 31.1cm, 21.5cm and from about 1,200m depth to the bottom of the hole it is only 15.9cm.



15.9cm drill bit

Environmental assessment

Landscape and visual

A Landscape and Visual Impact Assessment has considered the visibility of the project from local receptors and in relation to the landscape character of the area. The site is located within the Nottinghamshire, Derbyshire and Yorkshire Coalfield Landscape Character Area.

The assessment shows there will be moderate to substantial effects during the drilling and coring stage, particularly within close proximity to the project. Once the drilling is completed it is considered that the landscape impacts will be minor and in the long term the site will be restored to its current use.

Ecology

An extended Phase 1 habitat survey has been undertaken in accordance with Joint Nature Conservancy Council guidance, and a further survey was undertaken of the trees within the field boundaries to assess their potential for bats in accordance with Bat Conservation Trust guidance.

The habitat on the site, which is mainly arable land, was considered to be of low to moderate ecological value. The design of the site does not impact on the hedgerows which were seen to be used by Badgers (there are no Badger setts within the site). The trees (which were shown not to have significant potential for bats) will have their root areas protected during construction.

The Water Environment

The site has been designed to be self-contained in relation to surface and ground water meaning there are no discharges from the site to the surrounding water environment.

The site is not located within a groundwater Source Protection Zone which are areas defined by the Environment Agency to show the risk of contamination from activities around groundwater sources used for drinking water. The drilling operations will pass through a Secondary A (minor) aquifer. Effects to the aquifer will be avoided through the well design including the casing, a closed loop mud system and the use of low toxicity drilling muds.

The nearest surface water course is 750m (tributary of the River Rother) south west the site.

The site is not within an area at risk from flooding.

Cultural Heritage and former mine workings

An assessment has been undertaken of the historic use of the site and potential for archaeological features. This assessment has also considered the potential for effects on the setting of surrounding heritage features.

Within the site area some features with potential to be former mine working (possible bell pits and mine entries) have been identified. These features have been further assessed using geophysical surveys. The design of the site has subsequently been developed to avoid these features.

The project will be visible from some of the heritage features (i.e. listed buildings), particularly during Stage 2 drilling and coring. The temporary nature of the drilling and overall development means the project is not considered to have a long term effect on the setting of these features.

Emissions to air

The proposed operations are similar in scale to impacts from a construction site. Dust impacts during the construction of the site will be controlled by using good practice measures e.g. dust suppression during soil stripping, bund formation and site restoration. Vehicles leaving the site will be cleaned to prevent mud being deposited on local roads.

The maximum number of HGVs will be up to 60 movements (30 two-way trips) per day. This is below the threshold that would normally trigger the requirement for a quantitative air quality impact assessment, based on the non-statutory Guidance published by the Institute of Air Quality Management.

The generators and drill rig will be on site for less than three months and therefore have limited potential to affect long-term air quality. The operation is located in a rural area with low background levels of pollution. The exhaust emissions are hot and will be released from vertical pointing vents with good thermal and mechanical buoyancy which aids dispersion. These units will be fitted with particulate filters to further reduce potential impacts.

No operational emissions of methane or gas flaring are proposed.

Air quality impacts from the project are considered to be of negligible significance.

