

# Permit with introductory note

## The Environmental Permitting (England & Wales) Regulations 2010

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Hutton Energy UK Limited

Harlequin 3 Wellsite  
Land Adjacent to the A52  
Grantham Road  
Radcliffe on Trent  
Nottinghamshire  
NG12 2AW

### **Permit number**

EPR/CB3300KR

# Harlequin 3 Wellsite

## Permit number EPR/CB3300KR

### Introductory note

#### **This introductory note does not form a part of the permit**

The main features of the permit are as follows.

The permit authorises the operation of a mining waste operation at Harlequin 3 Wellsite, namely the management of extractive waste from prospecting for mineral resources. The prospecting activities are targeting rock layers that lie below ground, to a maximum of approximately 950 metres depth. It is anticipated that these conventional reservoir targets may hold either gas or oil. The well will be drilled vertically inclined to a depth of approximately 950 metres. The construction of a vertical well will take place in stages. The first stage will be the installation of a conductor pipe to seal out the near surface superficial deposits and the upper most bedrock from subsequent deep drilling.

The second stage of drilling utilises a closed loop drilling mud system to remove drill cuttings from the well bore, maintain hydrostatic pressure and control the temperature of the drill bit. The drilling operation will be conducted using a water based drilling mud. There will be no use of any oil based drilling mud. The drilling hole will vary in diameter until a depth of approximately 950 metres is reached. Once each hole section has been drilled, steel casing is cemented in the wellbore in a series of stages to protect groundwater and maintain wellbore integrity. The third stage will involve flow testing the well to ascertain if the formations are capable of producing commercial quantities of petroleum.

This permit is limited to the regulation of the extractive waste resulting from the prospecting for mineral resources. The mining waste operation consists of the management of non-inert, non-hazardous and hazardous extractive waste.

The status log of the permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application EPR/CB3300KR/A001	Duly made 15/12/14	Application for the management of non-inert, non-hazardous extractive waste that does not include a mining waste facility.
Additional information received	27/01/15	Response to schedule 5 notice.
Additional information received	10/03/15	Flare specification submitted
Permit determined EPR/CB3300KR	21/04/15	Permit issued to Hutton Energy UK Limited.

End of introductory note

# Permit

## The Environmental Permitting (England and Wales) Regulations 2010

### Permit number

**EPR/CB3300KR**

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

### Hutton Energy UK Limited ("the operator")

whose registered office is

**c/o WFW Legal Services Limited  
15 Appold Street  
London  
EC2A 2HB**

company registration number

**06399734**

to operate a mining waste operation at

**Harlequin 3 Wellsite  
Land Adjacent to the A52  
Grantham Road  
Radcliffe on Trent  
Nottinghamshire  
NG12 2AW**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Oil, Gas and Mineral Permitting Team Leader	21/04/2015

Authorised on behalf of the Environment Agency

# **1 Management**

## **1.1 General management**

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

## **1.2 Avoidance, recovery and disposal of wastes produced by the activities**

- 1.2.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
  - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
  - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.2.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

# **2 Operations**

## **2.1 Permitted activities**

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

## **2.2 The site**

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

## **2.3 Operating techniques**

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 The operator shall review the waste management plan every five years from the date of initial approval.

## **2.4 Pre-operational conditions**

- 2.4.1 The activities shall not be brought into operation until the measures specified in PO4 and PO5 of schedule 1 table S1.3 have been completed and the operator has received written approval from the Environment Agency.
- 2.4.2 There shall be no incineration of hazardous extractive waste until the measures specified in PO1, PO2 and PO3 of schedule 1 table S 1.3 have been completed and the operator has received written approval from the Environment Agency.

## **3 Emissions and monitoring**

### **3.1 Emissions to water, air or land**

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Subject to any other condition of this permit, periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

### **3.2 Emissions of substances not controlled by emission limits**

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
  - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

### **3.3 Odour**

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
  - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

### **3.4 Noise and vibration**

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
  - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

### **3.5 Pests**

- 3.5.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.5.2 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
  - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## 3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in table S3.1
  - (b) ambient air monitoring specified in table S3.3
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 The operator shall carry out:
- (a) regular calibration, at an appropriate frequency, of systems and equipment provided for carrying out any monitoring and measurements necessary to determine compliance these rules; and
  - (b) regular checking, at an appropriate frequency, that such systems and equipment are serviceable and correctly used
- 3.5.4 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.5 If required by the Environment Agency, the operator shall
- (a) take such samples and conduct such measurements, tests, surveys, analyses and calculations, including environmental measurements and assessments, at such times and using such methods and equipment as the Environment Agency may reasonably specify and
  - (b) keep samples, provide samples, or dispatch samples for tests at a laboratory, as the Environment Agency reasonably specifies, and ensure that the samples or residues thereof are collected from the laboratory within three months of receiving written confirmation that testing and repackaging in accordance with the relevant legislation are complete.
- 3.5.6 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2, unless otherwise agreed in writing by the Environment Agency.
- 3.5.7 The operator shall, prior to, or on commencement of flaring, and monthly thereafter; analyse the flare feed gas. The analysis shall include speciation and concentration of organic substances, carbon monoxide, sulphur containing compounds, halogen containing compounds and moisture. A report of this analysis shall be submitted to the Environment Agency within 28 days of completion of the analysis.
- 3.5.8 The operator shall by calculation determine the emissions of the substances identified in table S3.1, based on the most recent feed gas composition analysis, feed gas flow rate and combustion efficiency of the flare.
- 3.5.9 The operator shall carry out ambient air monitoring as approved with the Environment Agency in response to condition 2.4.2 and specified in pre-operational measure PO 2 in Schedule 1, Table S1.3.

## **4 Information**

### **4.1 Records**

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
  - (i) off-site environmental effects; and
  - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

### **4.2 Reporting**

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

### **4.3 Notifications**

4.3.1 The Environment Agency shall be notified without delay following the detection of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
- (b) the breach of a limit specified in the permit; or
- (c) any significant adverse environmental effects.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.



- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (c) any change in the operator's name or address; and
- (d) any steps taken with a view to the dissolution of the operator.

In any other case:

- (e) the death of any of the named operators (where the operator consists of more than one named individual);
- (f) any change in the operator's name(s) or address(es); and
- (g) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

- 4.3.5 Where the operator proposes to make an amendment to the approved waste management plan, which is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before implementing the amended waste management plan in place of the original; and
- (b) the notification shall contain a description of the proposed amendment.

## **4.4 Interpretation**

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

# Schedule 1 – Operations

Table S1.1 activities	
Description of activities for waste operations	Limits of activities
<p>A mining waste operation for the management of extractive waste from prospecting for mineral resources, not involving a waste facility.</p> <p>The incineration of waste gas, from onshore oil and gas exploration and appraisal activities, produced from well testing activities using an enclosed ground flare with a capacity of less than 10 tonnes per day.</p> <p>The management of extractive waste generated by well abandonment.</p>	<p>Permitted waste types shall conform to the description in the approved Waste Management Plan.</p> <p>The activities shall be limited to the following extractive waste types – non-hazardous water based drilling muds, non-hazardous drill cuttings, non-hazardous excess solidified cement, non-hazardous formation water, non-hazardous clays and sand, non-hazardous spent hydrochloric acid and calcium chloride, and natural gas and nitrogen.</p> <p>The activities shall be limited to those described in the approved Waste Management Plan revision 4.00 dated 10/03/2015.</p> <p>Drilling additives shall be approved in writing by the Environment Agency prior to use.</p> <p>The activities shall be limited to waste arising from the prospecting for oil and/or gas, not including well stimulation.</p> <p>The storage of extractive waste is limited to temporary storage in secure containment as part of the collection and transportation of waste from the site.</p>

Table S1.2 Operating techniques		
Description	Parts	Date Received
Non-Technical Summary, HE-EPRA-H3-NTS-003, Rev 3.00	All	10/03/15
Site Plans, HE-EPRA-H3-SP-004	All	15/12/14
Waste Management Plan, HE-EPRA-H3-005, Rev 4.00	All	10/03/15
Site Condition Report, HE-EPRA-H3-SCR-006	All	15/12/14
Environmental Risk Assessment, HE-EPRA-H3-ERA-007, Rev 3.00	All	10/03/15
Drilling Products, HE-EPRA-H3-DP-008	All	15/12/14
Planning Decision Notice, HE-EPRA-H3-PDN-009	All	15/12/14

<b>Table S1.3 Pre-operational measures</b>	
<b>Reference</b>	<b>Pre-operational measures</b>
PO 1	<p>At least 4 weeks prior to the start of flaring the operator shall submit to the Environment Agency for approval the following information in relation to the operation of the flare:</p> <ul style="list-style-type: none"> <li>i) Details of the flare design</li> <li>ii) The design combustion efficiency of the flare across the expected feed gas flow range.</li> <li>iii) The design temperature in the combustion chamber at which the combustion efficiency specified in (i) above will be achieved</li> <li>iv) Details of the continuous monitoring methods to be employed for measuring the flare temperature and flare feed gas flow rate.</li> <li>v) Control measures to ensure that the design flare temperature is maintained.</li> </ul>
PO 2	At least 4 weeks prior to commencement of the gas flaring activity the operator shall submit to the Environment Agency for approval details of the ambient air monitoring programme that they will undertake before, during and after the period of gas flaring.
PO 3	At least 4 weeks the operator shall provide for approval a method for calculating the emissions from the flare as required by condition 3.5.8. and obtain the Environment Agency's written approval to the method.
PO4	<p>At least 2 weeks before commencement of activities specified in Table S1.1, the operator shall submit to the Environment Agency a written odour management plan for approval and the activities shall not commence until the operator has obtained the Environment Agency's written approval to it. The odour management plan must identify potential sources of odour, potential odour release points, unit operations resulting in venting of gas to atmosphere, abnormal operations that could result in venting of gas to atmosphere, calculation of maximum quantities of gas that could be released to atmosphere from each unit operation and abnormal operation, measures for the prevention, containment and abatement of odour releases, procedures for odour monitoring, procedures for odour complaint investigation. The plan must include an assessment of releases of nitrogen gas containing organics.</p> <p>The plan must contain relevant information regarding how the operator will comply with condition 3.2 Odour. The odour management plan must comply with relevant Environment Agency guidance "H4 Odour Management: How to comply with your environmental permit".</p>
PO5	At least 2 weeks prior to commencement of flow testing the operator shall submit to the Environment Agency for approval a written report confirming that the well has been installed as specified and demonstrating that the integrity of the casing has been tested and found to be satisfactory to protect groundwater and obtain the Environment Agency's written approval to it.

## **Schedule 2 – Waste types, raw materials and fuels**

Non-extractive wastes are not accepted as part of the permitted activities and there are no restrictions on raw materials or fuels under this schedule

## Schedule 3 – Emissions and monitoring

Table S3.1 point source emissions to air – emission limits and monitoring requirements					
Emission point ref. and location	Parameter	Source	Limit (including unit)	Monitoring frequency	Monitoring standard or method (Note1)
Gas flare	Oxides of nitrogen	Gas flare	None set	Monthly	As approved in writing with the Environment Agency in accordance with PO3
	Total volatile organic compounds (VOCs)			Monthly	As approved in writing with the Environment Agency in accordance with PO3
	Carbon monoxide		None set	Monthly	As approved in writing with the Environment Agency in accordance with PO3
	Methane concentration in flare feed gas		None set	Monthly	FTIR analyser in accordance with TGN M22
	Flare gas feed rate		<10 tonnes per day	Continuous	As approved in writing with the Environment Agency Note 1
	Flare temperature		minimum 800 °C	Continuous	PD ISO/TR 15377:2007 Note 1

**Note 1:** As reported in response to condition 2.4.2 and Schedule 1, table S1.3, reference PO 1

Table S3.2 Ambient air monitoring requirements				
Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
As per PO2	As per PO2	As per PO2	As per PO2	

## Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Emissions to air Parameters as required by condition 3.5.1.  Oxides of nitrogen  Carbon monoxide  Methane  Ozone  Hydrogen sulphide	Gas flare	Within 1 month of commencing flaring and then every month thereafter until cessation of flaring activities	21/04/2015
Flare gas feed rate  Flare temperature	Gas flare	As required by the Environment Agency	21/04/2015
Ambient air monitoring Parameters as required by condition 3.5.1	As per PO 2	As per PO 2	21/04/2015

<b>Table S4.2 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Air	Form Air1 or other form as agreed in writing by the Environment Agency	21/04/2015
Ambient air	Form as agreed in writing by the Environment Agency	21/04/2015

# Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

## Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

<b>(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution</b>	
<b>To be notified within 24 hours of detection</b>	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

<b>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

## Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* authorised to sign on behalf of the operator



## Schedule 6 – Interpretation

*“accident”* means an accident that may result in pollution.

*“application”* means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

*“Annex I”* means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“Annex II”* means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“approved waste management plan”* means a plan of the type described in Article 5(1) of Directive 2006/21/EC of the European Parliament and of the Council of 15 March 2006 on the management of waste from extractive industries and amending Directive 2004/35/EC, approved as part of the grant or variation of an environmental permit and as revised from time to time.

*“authorised officer”* means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

*“emissions to land”* includes emissions to groundwater.

*“emissions of substances not controlled by emission limits”* means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

*“EP Regulations”* means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations

*“exploration”* means activities carried out to provide information about geological structures and the presence or absence of gas reserves together with assessments to determine whether the reservoir development is economically feasible.

*“extractive waste”* means waste resulting from the prospecting, extraction, treatment and storage of mineral resources and the working of quarries, excluding waste which does not directly result from these operations.

*“groundwater”* means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

*“Industrial Emissions Directive”* means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

*“mining waste facility”* means a waste facility as defined in Article 3(15) of Directive 2006/21/EC of the European Parliament and of the Council of 15 March 2006 on the management of waste from extractive industries and amending Directive 2004/35/EC, where a mining waste operation is carried out.

*“prospecting”* means prospecting as defined by article 3(21) of the Mining Waste Directive as ‘the search for mineral deposits of economic value, including sampling, bulk sampling, drilling and trenching, but excluding any works required for the development of such deposits, and any activities directly associated with an extractive operation.

*“year”* means calendar year ending 31 December.

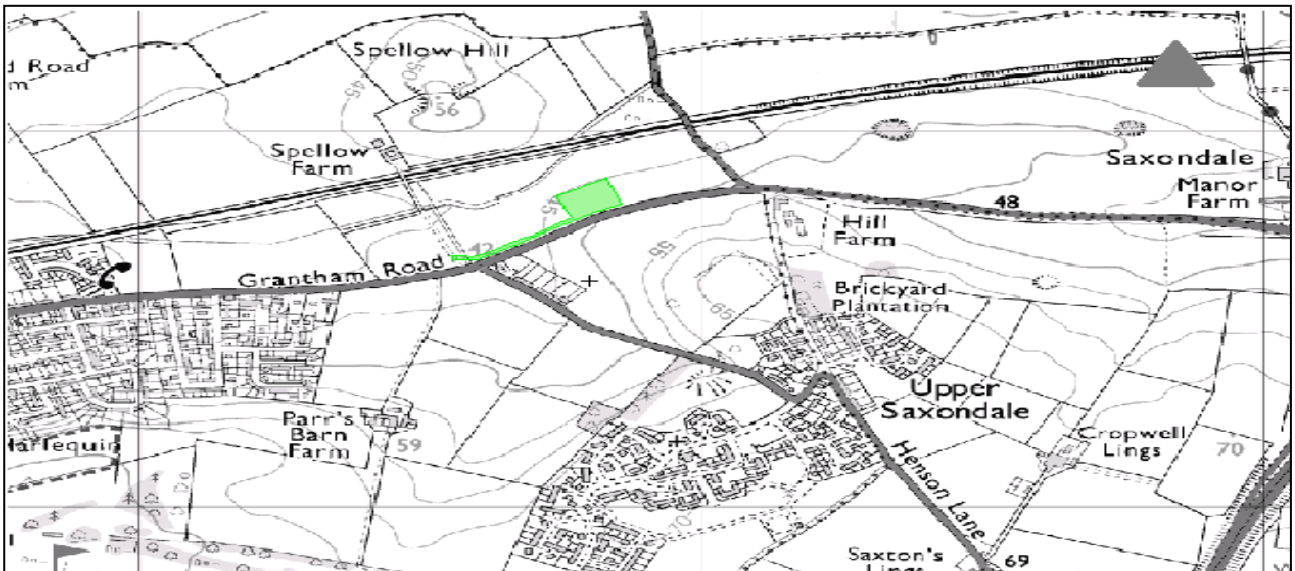
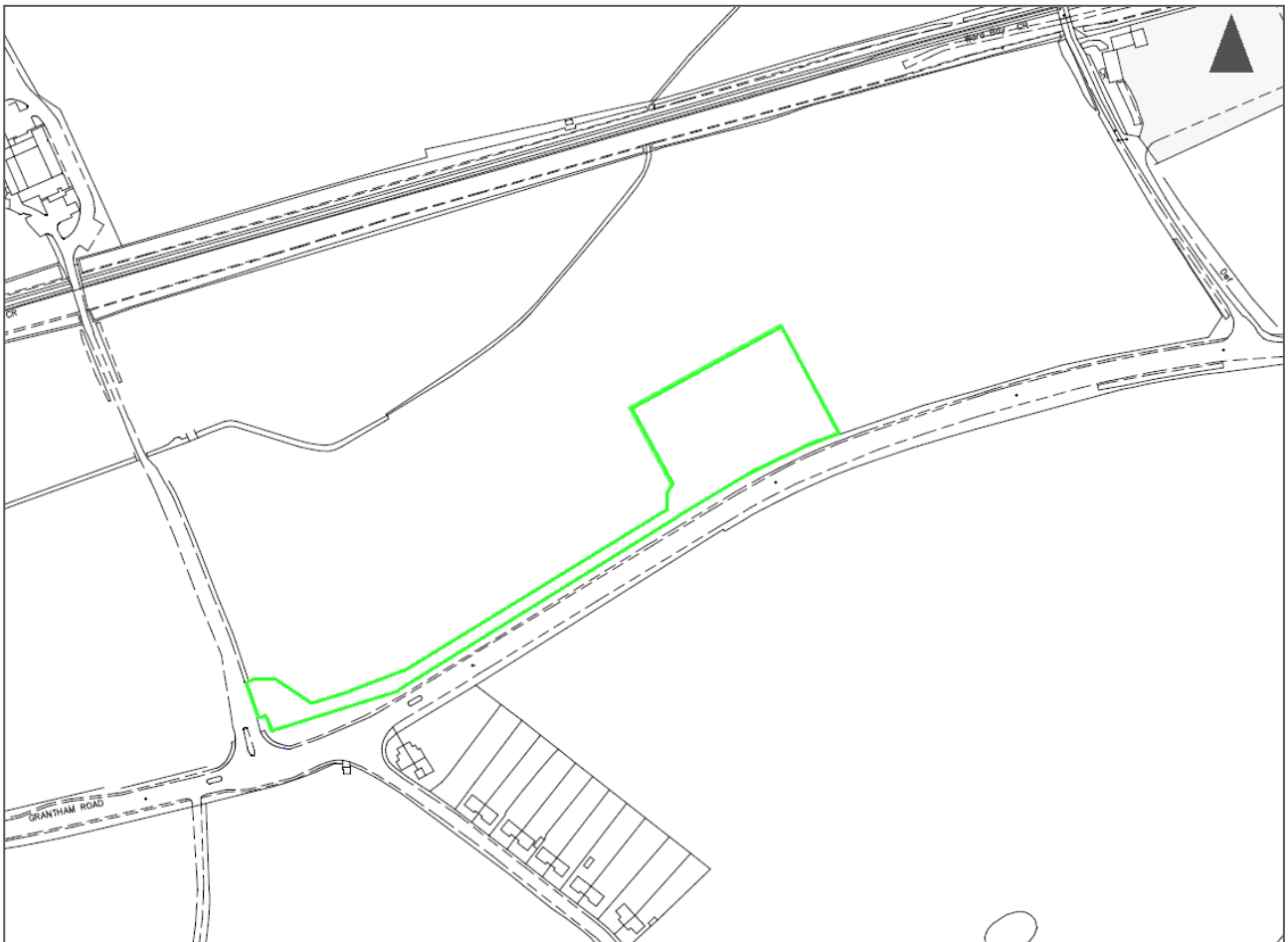
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

## Schedule 7 – Site plan



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END OF PERMIT

Permit Number: CB3300KR

Operator:

Hutton Energy UK Limited

Facility: Harlequin 3 Wellsite

Form Number:

Air1

**Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY**

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>

The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed .....  
(Authorised to sign as representative of Operator)

Date.....