Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Europa Oil & Gas Limited

Crosby Warren Wellsite
Dawes Lane
Scunthorpe
Lincolnshire
DN15 0RA

Variation application number

EPR/GP3635MP/V003

Permit number

EPR/GP3635MP

Crosby Warren Wellsite
Permit number EPR/GP3635MP

Introductory note

This introductory note does not form a part of the permit

Under the Environmental Permitting (England & Wales) Regulations 2016 (Schedule 5, Part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made.

All the conditions of the permit have been varied and are subject to the right of appeal.

This variation is to add –

1) A Mining Waste Operation, as defined by the Mining Waste Directive and Schedule 20 of the Environmental Permitting (England and Wales) Regulations 2016, as amended, relating to the management of extractive waste not involving a Mining Waste Facility. The permit is being varied to include activities specified in the approved Waste Management Plan and these include management of extractive mining wastes from near well-bore treatments involving acid-squeeze, hot oil wash, and scale removal and well workover operations.

2) A groundwater activity, as defined by the Groundwater Directive and Schedule 22 of the Environmental Permitting (England and Wales) Regulations 2016, as amended, for the re-injection of produced and clean surface water for production support.

The original permit was issued for an Industrial Emission activity as defined by the Industrial Emissions Directive and Part 2 Schedule 1.2 of the Environmental Permitting (England and Wales) Regulations 2016, relating to the loading, unloading, handling and storage of crude oil.

The installation comprises a single site with two production wells, a re-injection well and storage tanks with associated bunding and containment facilities and is located to the North East of Scunthorpe. The site draws oil and admixed water from the Crosby Warren oilfield. Crude oil and admixed water is passed through a process heater and separator. Crude oil, from the separator is pumped to storage tanks via over ground pipelines. Produced waters and storm waters collecting on the process areas are re-injected into the oil producing reservoir using the injection well. The storage tanks are emptied as required by road tanker. Power for the installation is supplied by an on-site diesel generator. Associated gas, released when the oil is depressurised, is used to fuel the onsite process heater and separator. Any excess gas not required is exported via an underground pipeline to the nearby British steel works where it is used in the coke ovens. The site takes up an area of 0.6 Hectares in total with a daily oil production of approximately 23 bbls (2017 average).

The principal releases into the environment comprise:

(a) Emissions to air of gaseous hydrocarbons from separation of volatiles in storage.

(b) Emissions of gaseous hydrocarbons from the road tanker by displacement on loading.

(c) Reinjection of produced water and treated site surface water to the oil reservoir for production support

(d) Rainwater run-off from hardcore well-site areas to ground.

(e) Engineering waste resulting from maintenance work is removed for disposal at a licensed waste disposal facility.

The Risby Warren SSSI is 620 metres to the NE of the installation and there are no Habitats sites within 10 Km of this site.

There are no other changes to the permit.

The schedules specify the changes made to the permit.

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 GP3635MP	Duly made 10/10/2007	
Additional information received	09/04/2007	Information requested 23/02/07
Permit GP3635MP determined	27/06/2007	Application issued
Variation application submitted EPR/GP3635MP/V002	03/08/2008	
Additional information received	12/09/2008	Requested 08/08/2008
Variation notice EPR/GP3635MP/V002 (PAS Billing ref: VO3734XS)	29/10/2008	
Variation Application EPR/GP3635MP/V003	Duly made 24/01/2017	
Additional information received	28/07/2017	Response to Schedule 5 notice with revised Non-Technical Summary, Waste Management Plan, Site Condition Report and Environmental Risk Assessment
Additional information received	30/06/2017	Gap Analysis Tool response received
Variation determined EPR/GP3635MP/V003 (PAS Billing ref. LP3431DK)	01/05/2018	Permit issued to Europa Oil & Gas Limited.

End of introductory note.

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/GP3635MP

Issued to

Europa Oil & Gas Limited ("the operator"),

whose registered office is

6 Porter Street
London
W1U 6DD

company registration number 03093716

to operate an installation, a mining waste operation and a groundwater activity at

Crosby Warren Wellsite
Dawes Lane
Scunthorpe
Lincolnshire
DN15 0RA

to the extent set out in the schedules.

The notice shall take effect from 01/05/2018

Name	Date
Principal Permitting Team Leader **National Permitting Services**	**01/05/2018**

Authorised on behalf of the Environment Agency.

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation, and as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/GP3635MP

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/GP3635MP/V003 authorising,

Europa Oil & Gas Limited ("the operator"),

whose registered office is

6 Porter Street
London
W1U 6DD

company registration number 03093716

to operate an installation, a mining waste operation and a groundwater activity at

Crosby Warren Wellsite
Dawes Lane
Scunthorpe
Lincolnshire
DN15 0RA

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

Name	Date
Principal Permitting Team Leader **National Permitting Services**	**01/05/2018**

Authorised on behalf of the Environment Agency

Conditions

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, so far as is practicable, including those risks 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 the permit.

1.2 Energy efficiency

1.2.1 For the following activities referenced in schedule 1, table S1.1, A1, the operator shall:

(a) take appropriate measures to ensure that energy is used efficiently in the activities;

(b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and

(c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 For the following activities referenced in schedule 1, table S1.1, A1, the operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 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;

(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.

1.4.2 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.

2.2.2 The groundwater activity A4 referenced in schedule 1 table S1.1 shall take place at the discharge point marked on the site plan at schedule 7 to this permit.

2.2.3 The discharge shall be made from the wellbore within the Beacon Hill Flags Formation as listed in tables S1.1 and S3.3; and, the operating techniques that are the subject of conditions prefixed by condition 2.3 shall be applied at the location, or otherwise described, in schedule 7

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 re-injection borehole system shall comply with the following:

(a) no re-injection borehole shall extend below the depth specified in table S1.1;

(b) the re-injection borehole shall comply with the minimum depth below ground level for un-perforated linings specified in table S1.1;

(c) the outlet of the re-injection borehole, including any associated diffusers, shall be within the saturation zone at all times;

(d) no part of the re-injection borehole system shall be situated within 10 metres of any watercourse (including any ditch that runs dry for part of the year), or any other surface water;

(e) no part of the re-injection borehole system shall be situated within a SPZ 1 or 50 metres of a well or borehole used for any purpose, other than abstraction from that well or borehole for the sole purpose of supplying water to the activity specified in table S1.1 and wells or boreholes used solely for purpose of extracting hydrocarbons

2.3.4 The operator shall:

(a) review the waste management plan at least every five years from the date of initial approval and submit any written revisions to the Environment Agency for approval.

(b) implement the approved waste management plan from the date of approval, unless otherwise agreed in writing by the Environment Agency

2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

(a) the nature of the process producing the waste;

(b) the composition of the waste;

(c) the handling requirements of the waste;

(d) the hazardous property associated with the waste, if applicable; and

(e) the waste code of the waste.

2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

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 table S3.1 and S3.2 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.

3.2.4 The Operator shall take appropriate measures:

(a) to prevent the input of hazardous substances to groundwater; and

(b) where a non-hazardous pollutant is not controlled by an emission limit, to limit the input of such non-hazardous pollutants to groundwater so as to ensure that such inputs do not cause pollution of groundwater.

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 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 to air specified in tables S3.1;

(b) point source emissions to water and land specified in table S3.2;

(c) groundwater monitoring specified in table S3.5;

(d) process monitoring specified in table S3.6;

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 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.

3.5.4 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 with this permit; and

(b) regular checking, at an appropriate frequency, that such systems and equipment are serviceable and correctly used.

3.5.5 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, S3.2 ,S3.3, S3.5 and S3.6 unless otherwise agreed in writing by the Environment Agency.

3.5.6 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 specify; and

(b) keep samples, provide samples, or dispatch samples for tests at a laboratory, as the Environment Agency specifies, and ensure that the samples or residues thereof are collected from the laboratory within three months of receiving written notification that testing and repackaging in accordance with the relevant legislation are complete.

3.5.7 The Groundwater Monitoring Plan approved in accordance with improvement condition IC3 specified in table S1.2, Schedule 1 shall be implemented unless otherwise agreed in writing with the Environment Agency.

3.5.8 Any revised Groundwater Monitoring Plan should be implemented in place of the original in accordance with the Environment Agency's written approval unless otherwise agreed in writing

3.6 Installation of monitoring boreholes

3.6.1 The Operator shall submit for approval to the Environment Agency details of the groundwater monitoring plan within 6 months of permit issue.

3.6.2 The monitoring boreholes shall be installed to depths, by methods and according to a design agreed in advance and in writing by the Environment Agency.

3.6.3 The following details regarding the monitoring boreholes shall be provided to the Environment Agency within 1 month of installation:

(a) casings/linings (length, diameter, material, type of grout or filter media and whether slotted or plain);

(b) depths and diameters of unlined sections;

(c) standing groundwater levels;

(d) details of strata encountered during drilling;

(e) reference levels in metres above ordnance datum;

(f) a location plan at a suitable scale showing the boreholes in relation to the point of discharge;

(g) national grid references of the borehole(s) in the form AB 12345 67890;

(h) any other information obtained from the borehole(s) relevant to the interpretation of water sample analysis.

4 Information

4.1 Records

4.1.1 All records required to be made by schedules 3, 4 and 5 to 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 maintain convenient access, in either electronic or hard copy, to the records, plans and management system required to be maintained by this permit.

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 For the following activities referenced in schedule 1, table S1.1, A1

4.2.3 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

(a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;

(b) the annual production /treatment data set out in schedule 4 table S4.2; and

(c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.4 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.

4.2.5 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

4.3.1 In the event:

(a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

(i) inform the Environment Agency,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) of a breach of any permit condition the operator must immediately—

(i) inform the Environment Agency, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 The information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be supported 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:

(a) any change in the operator's name or address; and

(b) any steps taken with a view to the dissolution of the operator.

In any other case:

(a) the death of any of the named operators (where the operator consists of more than one named individual);

(b) any change in the operator's name(s) or address(es); and

(c) 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 For the following activities referenced in schedule 1, table S1.1, A1, A2 and A4:

4.3.6 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change 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 making the change; and

(b) the notification shall contain a description of the proposed change in operation.

4.3.7 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

4.3.8 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.

4.3.9 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

(a) a decision by the Secretary of State not to re-certify the agreement;

(b) a decision by either the operator or the Secretary of State to terminate the agreement; and

(c) any subsequent decision by the Secretary of State to re-certify such an agreement.

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 "immediately, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity**
A1	S1.2 Part A(1)(e)(i): The loading, unloading, handling or storage of, or the physical, chemical or thermal treatment of crude oil.	Production of fluids extracted from the resource formation by beam pump, phase separation and storage of products (crude oil) and waste prior to onward transport.	From receipt of production fluids at the wellhead to the despatch of products (crude oil) and waste. Any road tanker loading systems must be fully contained and the delivery system shall be fitted with dry break couplings. During loading of road tankers, the road tanker shall be back vented to the bulk storage tank, or routed to a suitable vent treatment system. Provisions shall be made to minimise the emissions of non-methane volatile organic compounds (NMVOC) and methane from the oil storage tank vent.
	Directly Associated Activity		
A2	Storage of additional raw materials.	Raw materials directly associated with the production of crude oil.	From receipt of raw materials to the despatch for use.
	Description of activities for waste operations	**Limits of activities**	
A3	The management of extractive waste from production activities, not involving a waste facility. The management of extractive waste generated by well workovers.	The activities shall be limited to those described in the approved Waste Management Plan referenced EOG-EPRA-CW-WMP-005 and dated 28/07/17. Permitted waste types shall conform to the description in the approved waste management plan. 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. Drilling additives shall be approved in writing by the Environment Agency prior to use. Well stimulation by hydraulic fracturing is not permitted. The amount of natural gas to be flared shall be less than 10 tonnes per day.	
	Description of activity for Groundwater	**Limits of specified activity**	
A4	Re-injection of produced water to ground via borehole CW3 for operations for extraction of hydrocarbons.	Discharge of produced water from the extraction of hydrocarbons and treated site surface water into existing reinjection borehole CW3 at SE 91205 12901. • Re-injection borehole CW3 shall not extend deeper than 1704m true vertical depth below mean sea level (m TVD-MSL). • The target formation for the re-injection is the Beacon Hill Flags. • Un-perforated linings shall extend to a minimum depth of 1543m TVD-MSL • The discharge shall only be carried into the Beacon Hill Flags formation. The injection pressure shall not exceed the fracture pressure of the formation. Reinjection is for production support only. The activity will be carried out in accordance with the documents specified in Table S1.2. and S1.3	

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	The response to section 2.1 and 2.2 in the Application.	08/01/07
Response to the request for information issued on 23/02/2007.	Response from the applicant to the request for further information.	09/04/07
Emergency Accident Plan	Emergency Accident Plan revised September 2011 referenced 06-CW submitted in fulfilment of pre-operational condition IC2 specified on original permit issued on 27/06/07	12/09/11
Application	Types and amounts of raw materials specified in Table 5 of Part C3 of the application form	30/12/16
Application	Application documents provided in response to sections 5a, 5c, 5d and 6 of Part C2 of the application form.	30/12/16
Application	Technical standards specified in Table 3 of Part C3 of the application form.	30/12/16
Application	Types and amounts of raw materials specified in Table 5 of Part C3 of the application form	30/12/16
Gap Analysis Tool	Technical standards indicated in the response to the Gap Analysis Tool	30/06/17
Response to Schedule 5 dated 25/05/17	Response to schedule 5, document reference EOG-EPRA-CW-S5RT-001 EPRA – Crosby Warren Production Operations	28/07/17
Response to Schedule 5 notice	EPRA – CROSBY WARREN PRODUCTION OPERATIONS – SITE PLANS document referenced EOG-EPRA-CW-SP-004	28/07/17
Response to Schedule 5 notice	Waste Management Plan rev 5 - EOG-EPRA-CW-WMP-005	28/07/17
Response to Schedule 5 notice	Environmental Risk Assessment EOG-EPRA-CW-ERA-007	28/07/17
Application Response to Schedule 5 notice	Hydrogeological Risk Assessment – Appendix 6 of site condition report document referenced EOG-EPRA-CW-SCR-006	28/07/17
Application and Response to Schedule 5 notice	Appendix 4 of Site Condition Report referenced EOG-EPRA-CW-SCR-006 APPENDIX 4 – Groundwater Quality Monitoring Information Plan Design of a site protection and monitoring programme for Crosby Warren wellsite for Europa oil and Gas Ltd requiring reference data to be collected	28/07/17
Secondary and tertiary containment plan as approved under IC1 specified in Table S1.3	All of document	Date of approval of IC1
Leak detection and repair plan as approved under IC2 specified in Table S1.3	All of document	Date of approval of IC2
Groundwater Monitoring Plan approved in accordance with IC3 specified in Table S1.3	All of document	Date of approval of IC3
Environment Management System as approved under IC4 specified in Table S1.3	All of document	Date of approval of IC4

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Gas management system improvement plan as approved under IC5 specified in Table S1.3	All of document	Date of approval of IC5
Vapour recovery plan as approved under IC7 specified in Table S1.3	All of document	Date of approval of IC7
Site surface water management plan as approved under IC8 specified in Table S1.3	All of document	Date of approval of IC6

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1 Containment	**Secondary and tertiary containment plan** The operator shall submit a written 'secondary and tertiary containment plan' and shall obtain the Environment Agency's written approval to it. The plan shall contain the results of a review conducted, by a competent person, in accordance with the methodology detailed within CIRIA C736 (2014), of the condition and extent of secondary and tertiary containment systems where all polluting liquids and solids are being stored, treated, and/or handled. This review should consider, but is not limited to, the storage vessels, separators, bath heaters, bunds, loading and unloading areas, transfer pipework/pumps, temporary storage areas, and liners underlying the site. The plan must contain dates for the implementation of individual improvement measures necessary for the secondary and tertiary containment systems to adhere to the standards detailed/referenced within CIRIA C736 (2014), or equivalent. The plan shall be implemented in accordance with the Environment Agency's written approval.	01/02/2019
IC2 Leak detection	**Leak detection and repair plan** The operator shall submit a written 'leak detection and repair plan', and associated procedures and shall obtain the Environment Agency's written approval to it. The plan will identify, measure and reduce emissions of volatile organic compounds and other substances to air, appropriate to their operations and in accordance with European standard EN15446 or an equivalent standard. The plan shall be implemented in accordance with the Environment Agency's written approval.	01/11/2018
IC3 Groundwater activities	**Groundwater Monitoring Plan** The operator shall submit a written plan for groundwater monitoring during the operational and post decommissioning phases of the groundwater activity and shall obtain the Environment Agency's written approval to it. The plan will be based on the hydrogeological risk assessment and conceptual site model including, but not limited to: i) details of the proposed location; depth; and construction method of the groundwater monitoring boreholes ii) number of groundwater monitoring boreholes to be installed iii) details of the geological formation that monitoring boreholes in (i) are monitoring iv) groundwater sample collection procedures v) details of the proposed monitoring parameters and frequency vi) details of how the data collected will be reviewed and interpreted including setting and reviewing trigger levels vii) details for further investigation if erroneous results are observed The plan shall be implemented in accordance with the Environment Agency's written approval.	01/11/2018

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC4 Management system	**Updated written management system** The operator shall review and update the written management system (referred to in condition 1.1.1) to ensure the procedures are in place to meet the requirements resulting from the variation of this permit. In particular the review should ensure that the following points are included in the management system: • Details of the training given to staff on use of spill kits; ensure training records updated accordingly. • The procedure to be followed for monitoring the quantity and composition of flowback water and / or produced water and keeping records of the results. • The procedure for identifying vessel fill limits, e.g. fitting level detection, overfill protection system etc. • The procedure for identifying bund fill levels, e.g. high level alarm on unmanned sites • The procedures for testing the impermeable membrane and subsequent remediation measures if required. • The monitoring procedures and testing in place to maintain the integrity of the re-injection well for the lifetime of this well, monitoring frequency and remediation measures should the integrity monitoring results indicate that a well integrity failure has potentially occurred. • The procedure for notifying the Environment Agency on each occasion where natural gas is vented uncombusted to atmosphere for safety purposes. Notification to include, but not limited to: reasons for, duration of and quantity of gas vented. • The procedures and processes for measuring amount of gas vented from each emission point and the details of appropriate devices installed at each emission point used to measure the amount of vented gas. • The procedure for providing emergency flare capacity in the event that venting will likely to continue for more than 24 hours.	01/09/2018
IC5 Gas Management	**Gas Management Plan** The operator shall submit a written gas management improvement plan and shall obtain the Environment Agency's written approval for it. The plan must contain detailed consideration of all available options for the beneficial utilisation of all of the available gas from your activities, including gas that is not already utilised, gas vented from storage vessels and gas vented during the loading and unloading of road vehicles where relevant. Where such utilisation is not feasible, your plan must consider in detail all available options, both combustion and non-combustion based (including but not necessarily limited to flaring, vapour recovery, scrubbing and adsorption), for the disposal or abatement / mitigation of your waste gas so as to minimise its environmental impacts as far as available techniques allow. The gas management improvement plan shall also refer to the review of emissions undertaken as a result of IC6. If emission limits were not being met, the plan shall including actions that will be taken to ensure that emission limits are met. The plan must contain dates for the implementation of the identified improvement measures. The plan shall be implemented in accordance with the Environment Agency's written approval.	01/11/2019
IC6 Air	**Air Monitoring** The operator shall monitor point source emissions to air in accordance with table S3.1. The operator shall submit a review of emissions compared to the emission limits in table S3.1 to the Environment Agency and obtain the Environment Agency's written approval of the report.	01/11/2018

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC7 Vapour recovery	**Vapour Recovery Plan** The operator shall submit a written plan for vapour capture and recovery from loading and unloading activities and shall obtain the Environment Agency's written approval to it. The plan must detail the installation of a vapour capture / recovery system during the loading and unloading of road vehicles. The plan must contain dates for the implementation of the identified improvement measures. The plan shall be implemented in accordance with the Environment Agency's written approval.	01/11/2018
IC8 Surface water	**Site surface water management plan** The operator shall submit a written 'site surface water management plan' and shall obtain the Environment Agency's written approval to it. The plan will be based on the understanding from the conceptual site model and environmental risk assessment where the risks to the water environment are clearly detailed. The plan shall include details of how rainwater is managed, collected, stored and treated where necessary prior to discharge or disposal. The plan shall contain dates for the implementation of any improvement measures necessary to ensure that there are no uncontrolled contaminated water discharges to the environment from the site. The plan shall be implemented in accordance with the Environment Agency's written approval.	01/02/2019

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 fuel under this schedule.

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
A1 [point A1 on site plan 2 in Schedule 7]	Storage tank vent	Gas vented	-	Month	Monthly	Calculation to determine the quantity of gas vented over the reference
		Hydrogen sulphide	7.2 mg / m^3		Annually	As approved in writing with the Environment Agency

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Discharge source and discharge point ref. & location	**Parameter**	**Limit (including unit)**	**Reference Period**	**Limit of effective range**	**Monitoring frequency**	**Compliance Statistic**
Discharge of produced water from oil and or gas extraction to re-injection borehole CW3	Maximum daily discharge volume	200 barrels per day	Total daily volume	N/A	Continuous	Maximum
	Maximum rate of discharge	No limit set	Instantaneous (spot sample)	N/A	N/A	Maximum
	15-minute instantaneous or averaged flow	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A

Table S3.3 Discharge points			
Effluent name	**Discharge Point**	**Discharge point NGR**	**Receiving water / environment**
Discharge of produced water from oil and gas extraction and treated site surface water to re-injection borehole CW3	Borehole CW3	SE 91205 12901	Beacon Hill Flags via reinjection borehole CW3

Table S3.4 Monitoring points			
Effluent(s) and discharge point(s)	**Monitoring type**	**Monitoring point NGR**	**Monitoring point reference**
Discharge of produced water from oil and gas and treated site surface water extraction to re-injection borehole CW3	Flow monitoring	SE 912005 12901	Flow monitoring point

Table S3.5 Groundwater monitoring requirements				
Location or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Borehole BHA; and borehole BHB shown on site plan in Schedule 7 and any other locations provided as specified in Groundwater monitoring plan in Table S1.2 following approval of IC3 in Table S1.3	As specified in Groundwater monitoring plan in Table S1.2 following approval of IC3 in Table S1.3	As specified in Groundwater monitoring plan in Table S1.2 following approval of IC3 in Table S1.3	BS ISO 5667-11:2009 and condition 3.5.3	Three borehole volumes must be purged prior to sampling. Samples must be filtered samples. In accordance with Groundwater monitoring plan In Table S1.2 following approval of IC3 in Table S1.3

Table S3.6 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Reinjection borehole CW3	Well integrity monitoring report	As per the updated written management system specified in improvement condition IC4	As per the updated written management system specified in improvement condition IC4	
Reinjection of produced water to borehole CW3	Process chemicals	Calculated based on chemical usage and fate	Discharge to oil producing reservoirs	Process chemicals
Gas to oil ratio of production from the installation	Gas to oil ratio	monthly	As agreed in writing with the Environment Agency	
Gas vented from storage tanks	Hydrogen sulphide	Monthly or as otherwise agreed in writing with the Environment Agency	Calculation to determine the quantity of gas vented over the reference	

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	**Emission or monitoring point/reference**	**Reporting period**	**Period begins**
Emissions to air Parameters as required by condition 3.5.1.	Oil storage tank vent as indicated in Table S3.1	Monthly	01/05/18
Ground water monitoring Parameters as required by condition 3.5.1	Borehole BHA; and borehole BHB shown on site plan in Schedule 7 and as specified in Table 3.5	Every 6 months unless otherwise agreed with the Environment Agency.	01/05/18
Process monitoring Parameters as required by condition 3.5.1	Description as indicated in Table S3.6	Every 6 months	01/05/18 for venting of gas and date of approval of IC3 for other specified parameters
Emissions to groundwater (produced water reinjection: total daily volume and rate of discharge) as required by condition 3.5.1 and listed in Table S3.2	CW3	Every 6 months	1 January, 1 July
Rate of discharge of produced water into borehole CW3	Use reference from monitoring points table	Annually	1 January, 1 July

Table S4.2: Annual production/treatment	
Parameter	**Units**
Gas vented	Standard cubic feet
Crude oil production	bbl
Average water cut	% of production
Average Gas to oil Ration (GOR)	scf gas/bbls oil

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	Tonnes or m^3
Energy usage	Annually	MWh
Total mass release of oxides of sulphur	Annually	Tonnes

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Air	Form air 1 or other form as agreed in writing by the Environment Agency	01/05/18
Water and Land	Form water 1 or other form as agreed in writing by the Environment Agency	01/05/18
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	01/05/18
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	01/05/18
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	01/05/18
Total daily volume of reinjected produced water	WISKI electronic format or some other format agreed in writing by the Environment Agency	01/05/18
15-minute flow for reinjection of produced water	WISKI electronic format or some other format agreed in writing by the Environment Agency	01/05/18

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	**EPR/GP3635MP/V003**
Name of operator	
Location of Facility	
Time and date of the detection	

(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	
To be notified within 24 hours of detection	
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) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
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.	

Name*	
Post	
Signature	
Date	

* 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.

"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.

"background concentration" means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

"Competent Authority" means, in relation to –

(a) London, the London Fire and Emergency Planning Authority;

(b) an area where there is a fire and civil defence authority, that authority;

(c) the Isles of Scilly, the Council of the Isles of Scilly;

(d) an area in the rest of England, the county council for that area, or where there is no county council for that area, the district council for that area;

"disposal". Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"emissions to land" includes emissions to groundwater.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"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.

"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.

"Hazardous waste" has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended).

"Industrial Emissions Directive" means Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions

"List of Wastes" means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

“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.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

“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:

- 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.

Where the following terms appear they have the meaning given below.

“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

“heavy metal” means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances

“polychlorinated biphenyls and polychlorinated terphenyls” (‘PCBs’) means PCBs as defined in Article 2(a) of Council Directive 96/59/EC’.

Article 2(a) says that ‘PCBs’ means:

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005 %by weight

“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances

“stabilisation” means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste

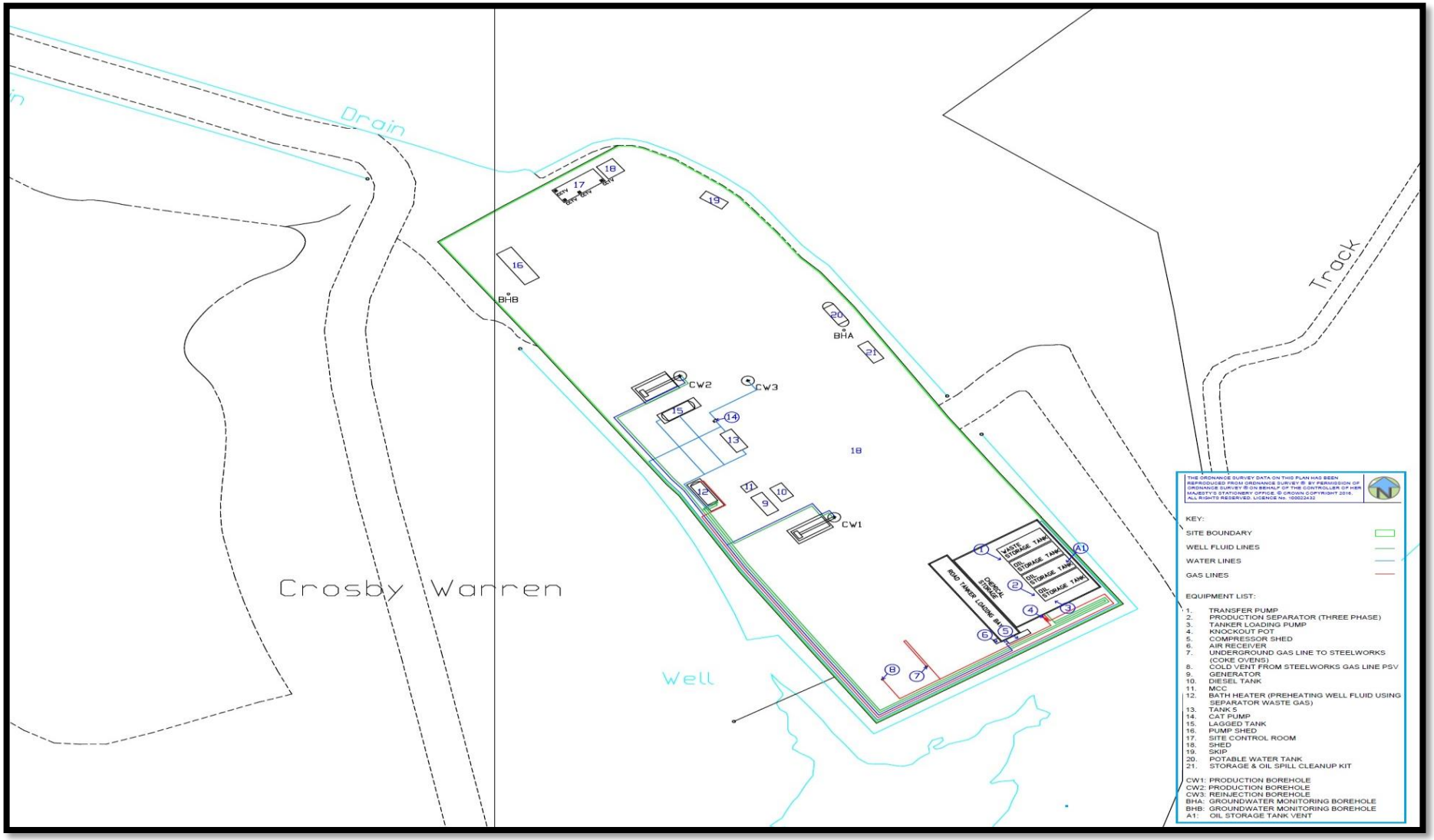
“solidification” means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste

“partly stabilised wastes” means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term

Schedule 7 – Site plan

Site plan 1 : Location of permitted site

Site plan 2 : Site layout showing reinjection borehole CW3



END OF PERMIT

Reporting forms

Permit Number: **EPR/GP3635MP** **Operator:** **Europa Oil & Gas Limited**

Facility: **Crosby Warren Wellsite** **Form Number:** **Air1 / DD/MM/YY**

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 [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]

1. 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.
2. 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.
3. 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.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ……. Date……..

(Authorised to sign as representative of Operator)

Permit Number: **EPR/GP3635MP** **Operator:** **Europa Oil & Gas Limited**

Facility: **Crosby Warren Wellsite** **Form Number:** **Water1 / DD/MM/YY**

Reporting of emissions to water (other than to sewer) and land for the period from DD/MM/YYYY to DD/MM/YYYY

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

1. 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.
2. 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.
3. 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.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ……. Date……..

(Authorised to sign as representative of Operator)

Permit Number: **EPR/GP3635MP** **Operator:** **Europa Oil & Gas Limited**

Facility: **Crosby Warren Wellsite** **Form Number:** **WaterUsage1 / DD/MM/YY**

Reporting of Water Usage for the year YYYY

Water Source	Usage (m^3/year)	Specific Usage (m^3/unit output)
Mains water		
Site borehole		
River abstraction		
TOTAL WATER USAGE		

Operator's comments:

Signed …… Date……..

(authorised to sign as representative of Operator)

Permit Number: **EPR/GP3635MP** **Operator:** **Europa Oil & Gas Limited**

Facility: **Crosby Warren Wellsite** **Form Number:** **Energy1 / DD/MM/YY**

Reporting of Energy Usage for the year YYYY

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	**Primary Energy (MWh)**	
Electricity *	MWh		
Natural Gas	MWh		
Gas Oil	tonnes		
Recovered Fuel Oil	tonnes		
TOTAL	**-**		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number: **EPR/GP3635MP** **Operator:** **Europa Oil & Gas Limited**

Facility: **Crosby Warren Wellsite** **Form Number:** **Performance1 / DD/MM/YY**

Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

Parameter	Units
Total raw material used	tonnes

Operator's comments:

Signed ……. Date……..

(Authorised to sign as representative of Operator)

Permit Number: **EPR/GP3635MP** **Operator:** **Europa Oil & Gas Limited**

Facility: **Crosby Warren Well Site** **Form Number:** **Groundwater1 / DD/MM/YY**

Reporting of groundwater monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]

1. 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.
2. 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.
3. 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.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …… Date……..

(Authorised to sign as representative of Operator)