



Balcombe 2Z
Hydrocarbon Well Test
Discharge of Planning Consent 19

| Issuing Authority | | | |
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INTRODUCTION

Angus Energy seeks to discharge several planning conditions in relation to the exploration and appraisal of the existing hydrocarbon borehole at the Lower Stumble Hydrocarbon Exploration Site, London Road, Balcombe, Haywards Health, West Sussex, RH17 6JH.

Planning permission was granted by the West Sussex County Council on the 27th October 2017 (Ref: WSCC/040/17/BA).

This supporting statement aims to discharge Planning Condition No. 19 Additional Security Measures.

The scope of this statement is the implementation of security measures aimed at preventing unauthorised access to the exploration site, criminal damage and protestor activity.

Planning Condition Details

Condition Number 19: Prior to the commencement of development, a scheme of additional security measures shall be submitted to and approved in writing by the Minerals Planning Authority. The scheme shall identify the height, location and appearance of any fencing and other security measures which may be required to be installed on the site. It shall not include fencing of more than 4.5 metres in height or 2 metres in height fronting the highway. Only security measures approved in this scheme shall be erected on site. Any security measures installed shall be removed upon completion of the development.

SECURITY PLANNING CONSIDERATIONS

Factors to be considered in determining the security measures required to protect the Company's interests at sites and within buildings are as follows:

- The security threat;
- Company culture and attitude to security risk;
- Local regulations: West Sussex Country Council
- Risk to life, public health, or to the environment, which could arise from accidental damage to or sabotage of some part or the company's operation;
- Standards of security protection at similar installations elsewhere in the United Kingdom;
- The criticality and vulnerability of the assets on site if the use of such assets were to be denied to the Company;
- The presence on site of high value or easily disposable materials, or of confidential information;
- Operations which are liable to attract the attention of militant protestors;

ACTION TO DISCHARGE CONDITION

A security review was conducted of the Balcombe wellsite and the existing security measures. The results of the review were reported to the Angus Energy Board of Directors. The findings of the review and the associated recommendations were made giving due consideration to the overall aim of the project: to conduct operations safely, on time, on specification, on budget and to minimise any impact on the environment.

The Angus Energy Board of Directors has made an informed decision to install the relevant security measures adhering to relevant legislation and industry best practice.

Perimeter Protection

The primary objectives of a perimeter are to:

- Define the boundary of the property and divide it into manageable zones
- Deter unauthorised persons from entry
- Delay the advance of an adversary. There is no such thing as an impenetrable perimeter
- Detect unauthorised or suspicious activity through the application of CCTV surveillance and intruder detection systems and thus trigger an appropriate response

Outer and inner perimeter specifications

- All hedgerows shall remain unchanged
- An outer perimeter fence consisting of 2m Heras fencing panels, or similar, shall be erected around the well site in order to define a clear outermost boundary and create a restricted area in which access control can be enforced. This secondary fence shall be erected along the outer edge of the track which surround the well site (see appendix A).
- The existing well site fence (inner perimeter) shall be fitted with anti-climb topping:
 - V-shaped outriggers (at 45⁰) atop each support pole, supporting 3 strands of taught razor wire spaced at 300mm apart.
 - 600mm coils of razor wire placed within the outriggers in 3D form so that they extend 300mm above the top of the outrigger.
- A 2-metre clear zone shall be maintained either side of the existing well site perimeter. This clear zone shall run the full length of the perimeter and be cleared of all vegetation and objects higher than 150mm.

Security Gates

The objectives of the security gates are the same as those of the perimeter but must also deny access to unauthorised vehicle and pedestrian entry.

- Both the primary and secondary gates shall be replaced with steel framed timber gates backed with diamond mesh, with an overall height of 2m. The gates shall be mounted on metal poles concreted into the ground to a depth of at least 1m (see example below).



- The parallel track, adjacent the primary gate and blocked with logs shall be fenced with timber fencing to the same specification (without the metal frame) as the gates recommended above.
- A pedestrian gate, to the same standard as the vehicle gate (height, materials) shall be installed immediately adjacent the vehicle gate in the well site perimeter fence.

Security Lighting

The objective of security lighting is to create conditions that deny a would-be adversary the opportunity to use darkness to conceal his/her act.

- Perimeter – Continuous, controlled lighting around the entire perimeter of the well site. Specifications:
 - Lamp type – LED
 - Lighting level at source – 5 Lux (<1 lux spill-over at the perimeter)
 - Colour Rendition Index (CRI)* – good (for use with CCTV)
 - Strike/restrike** – instant
 - Position – mounted on 5m poles, 8m inside the well site perimeter at 20m intervals
 - 18 lamps required (16 on perimeter, 2 at vehicle gate)

*CRI – The extent to which a particular lamp type reproduces colours similar to those observed under daylight.

**Strike/restrike – The time required to relight if switched off intentionally or by power failure.

Video Surveillance/CCTV

- Fixed cameras at 40m intervals (mounted on every second perimeter light poles), facing in the same direction (clockwise) covering the entire perimeter. Camera specification:
 - Focal length - 8mm
 - Chip - 1/3 inch
 - Direction - clockwise direction and be mounted on poles at a height of
 - Other - IR-capable
- Pan-Tilt-Zoom (PTZ) cameras PTZ to cover the main gate (London Road) and well site main gate. These must be integrated with the IDS, to track adversary movement. Camera specifications:
 - Optical zoom: 20 X
 - Pan range: 360 deg
 - Tilt range: 120 deg
 - Other - IR-capable
- Video Management System (VMS) to include video motion detection (VMD) for use with the fixed cameras

Perimeter Intruder Detection System (PIDS)

The microphonic cable must be attached 1.2m above the base of the existing perimeter fence and divided into zones of 40m around the perimeter. The system shall be integrated with the CCTV cameras and must be able to discriminate signals automatically.

The system is required to:

- Instantaneously detect intruders lifting, climbing, tunnelling under or cutting through the perimeter fence.
- Provide accurate information to response force on location of intrusion
- Operate in normal and inclement weather conditions
- Provide a 95% probability of detection
- Less than one nuisance alarm per zone per week

Security Guards

- Once operations commence the site shall be guarded by a Security Supervisor and two Security Officers during the day and two Security Officers at night.
- There should be a permanent quick response capability of two guards during the day and two during the night. They will respond to attempted and actual intrusions supported by a dog and handler.
- The duties of the security personnel should be set out in a detailed set of assignment instructions or Standard Operating Procedures (SOPs) to be developed by Eclipse Strategic Security Limited.
- The security personnel shall be accommodated on site

Security Dogs

- The security dogs should remain on site
- Their primary functions should be patrolling and response

Note: It is critical to understand that security personnel and security dogs have separate functions and cannot be deployed as alternates to each other. There is a degree of overlap in patrolling and response duties but all other functions are separate i.e. a dog cannot perform access control duties and a security officer (in the Balcombe well site context) cannot provide the same level of deterrence as a patrol dog.

SAFETY CONSIDERATIONS

- Site specific safety induction should be completed by the Main Contractor prior to commencing works.
- All emergency procedures shall be followed:
- Any Transport and Traffic management system set up must be adhered to.
- All site rules shall be complied with by all personnel;
- Only appropriately trained and licensed personnel shall operate security equipment;
- No smoking on site only in designated areas;
- Correct PPE must be worn always in line with site rules; inclusive of but not limited to Hard Hat, Safety Boots, gloves, Hi Vis Vests/Coats and safety glasses; All specific PPE will be provided by the contractors to its personnel as and when required.

CONCLUSION

The security measures to be implemented at the Balcombe well site is aimed to proactively and safely prevent unauthorised access to the site and disruption to operations by protestor activity. The key principle is that of early warning and timeous response to prevent protestors from injuring themselves during attempted or actual incursions to the site.

Angus Energy shall only proceed to implement these measures once it has received approval in advance and in writing. It is considered that the above information provides sufficient detail and reassurance that these security measures are appropriate and necessary given for this project.

Appendix A: Well Site Map



(Google Earth, 2018)