



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:  issue No.:

Status:

Date of Issue:  Page 1 of 3

Applicant: **Petrel Limited**  
Fortnum Close  
Kitts Green  
Birmingham B33 0LB  
United Kingdom

Electrical Apparatus: **620 Wellglass & 621 Bulkhead Luminaires**  
Optional accessory:

Type of Protection: **Flameproof, Increased Safety and Dust**

Marking: **EEx de IIB T\* or EEx de IIC T\***  
**Ex tb IIIC T\*°C Db IP66**  
**Ta = -20°C to +\*°C**  
(\* The temperature classification and maximum surface temperature for dust are dependent upon the maximum ambient temperature and the type of light source used, refer to Equipment Description)

Approved for issue on behalf of the IECEX Certification Body:

Position:

Signature:  
(for printed version)

Date:

2010-01-04

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEX Website.

Certificate issued by:

**SIRA Certification Service**  
Rake Lane  
Eccleston  
Chester  
CH4 9JN  
United Kingdom

**sira**  
CERTIFICATION



# IECEX Certificate of Conformity

Certificate No.: IECEX SIR 09.0028

Date of Issue: 2010-01-04

Issue No.: 0

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Manufacturer: **Petrel Limited**  
Fortnum Close  
Kitts Green  
Birmingham B33 0LB  
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

|  |  |
|--|--|
| <b>IEC 60079-0 : 2007-10</b><br>Edition: 5 | Explosive atmospheres - Part 0: Equipment - General requirements   |
| <b>IEC 60079-1 : 2007-04</b><br>Edition: 6 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"                        |
| <b>IEC 60079-7 : 2006-07</b><br>Edition: 4 | Explosive atmospheres - Part 7: Equipment protection by increased safety "e"                             |
| <b>IEC 61241-1 : 2004</b><br>Edition: 1    | Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD" |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

GB/SIR/ExTR09.0181/00

Quality Assessment Report:  
GB/SIR/QAR08.0014/01



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The 620 Wellglass and 621 Bulkhead Luminaires consist of a housing manufactured in aluminium, gunmetal or stainless steel, which includes a separate lid incorporating a glass dome. The shape of this glass dome is the only distinguishing feature between the 620 and 621 luminaires. The glass dome is cemented into the lid using Eccobond 45LV. Within the enclosure are housed the optional light sources and any associated electrical equipment. Electrical connection is made via an increased safety terminal housing. This is cast, as part of the same main housing. The terminal housing employs component-approved terminals, interconnection between the terminals and the flameproof housing is via a component approved bushing.

The luminaires are available with either a spigot joint (IIB applications) or a threaded joint (IIC applications) between the base and the glass lid collar. The temperature classes, ambient temperatures and time delays that are applicable to each light source are listed in the Annexe

### CONDITIONS OF CERTIFICATION: NO