

# Azinor

Catalyst UK

## OSPAR Public Statement 2018

Environmental Performance

*Date: May 2019*

*Revision: 00*



Azinor Catalyst Limited

**OSPAR Public Statement 2018**

## Abbreviations

AZC	Azinor Catalyst Limited
BEIS	Department for Business, Energy & Industrial Strategy
CH <sub>4</sub>	Methane
CO	Carbon Monoxide
CO <sub>2</sub>	Carbon Dioxide
EEMS	Environmental Emissions Monitoring System
EMS	Environmental Management System
ePON	Electronic Petroleum Operations Notices
HQ	Hazard Quotient
HSE	Health, Safety and Environment
HSE MS	Health, Safety and Environment Management System
LTIF	Lost Time Injury Frequency
LTOBM	Low Toxicity Oil Based Mud
N <sub>2</sub> O	Nitrous dioxide
NO <sub>x</sub>	Oxides of Nitrogen
OCNS	Offshore Chemical Notification Scheme
OCR	Offshore Chemical Regulations
OSPAR	Oslo Paris Convention
PLONOR	Posing little or no risk
SO <sub>2</sub>	Sulphur Dioxide
SUB	Candidate for Substitution
TRIR	Total Recordable Incident Rate
UKCS	United Kingdom Continental Shelf
VOC	Volatile Organic Compounds
WBM	Water Based Mud
WMP	Waste Management Plan

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## 1 Introduction

Under the OSPAR Recommendation 2003/5, the Department for Business, Energy & Industrial Strategy (BEIS) require that all existing United Kingdom Continental Shelf (UKCS) oil and gas operators undertaking offshore operations prepare an annual statement of their environmental performance, covering the calendar year, and make that statement available to the public. This document represents Azinor Catalyst Limited's (hereafter referred to as 'AZC') annual public environmental statement for 2018 in relation to UKCS OSPAR reporting.

## 2 AZC's UKCS Operations

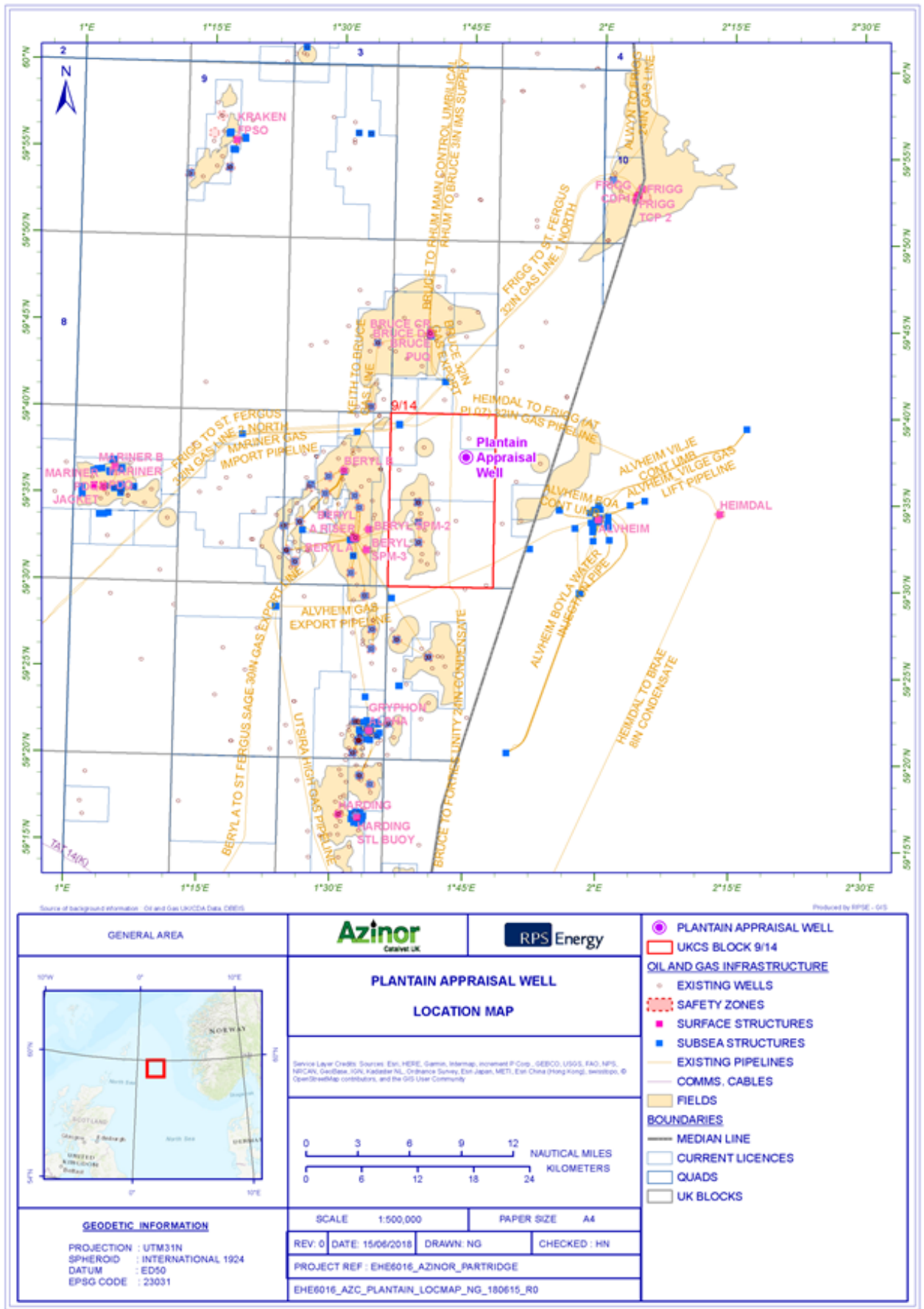
AZC is an independent oil and gas company focused on high value appraisal and selective low risk production and development opportunities. During 2018, AZC drilled the Plantain/ Agar appraisal well under Licence P.1763 in UKCS Block 9/14a. The well was located approximately 165 kilometres east-south-east of Bressay, Shetland Islands, Scotland and approximately nine kilometres west of the UK/Norway median line. (Figure 2-1).

The Plantain/ Agar appraisal well was drilled at 59° 37' 28.750" North / 01° 44' 36.906" East using the Transocean Leader semi-submersible drilling rig. The well was spudded on the 6<sup>th</sup> August 2018.

The 42-inch top-hole and the following 36-inch, 26 inch and 17 ½ inch sections were all drilled with seawater and gel sweeps without a riser installed, so drill cuttings from these sections were discharged at the seabed.

The subsequent 8.5 inch well section was drilled with low toxicity oil-based mud (LTOBM). Cuttings from this section were returned via riser to the drilling unit and shipped to shore for treatment and disposal.

Figure 2-1 Location of the Plantain/ Agar Appraisal Well



### 3 Health, Safety and Environmental Management System

Health, safety and environmental protection are responsibilities shared by everyone working for AZC. The company wishes to build value through developing sustainable, long-term relationships between partners and the community.

AZC believes that prevention of accidents and ill-health, protection of the environment and prevention of pollution are essential to the efficient operation of its business.

AZC's Health, Safety and Environmental Management System (HSE MS) ensures that AZC:

- Identifies and controls its HSE risk in a practical, effective and efficient manner;
- Complies with corporate HSE Policy and UK legislation; and
- Monitors and audits its HSE performance to assure itself and others (such as regulators, partners, licensing authorities and insurers) that it reflects best industry HSE practice.

Other key elements of the AZC HSE MS include procedures for HSE training, awareness and competence, contractor management and emergency preparedness and response.

The application of the HSE MS during the Plantain/ Agar appraisal well project ensured that AZC's HSE Policy (see Figure 3-1) was followed and that the company's responsibilities under all relevant regulations were met. AZC's HSE MS was integrated with the management systems of the main contracting parties involved in the Plantain/ Agar appraisal well operations - including the drilling contractor - through the development of a bridging document produced to comply with the Step Change Health and Safety Management Systems Interfacing Guidance.

Figure 3-1 AZC's Health, Safety and Environmental Policy Statement



**Azinor**  
Catalyst UK

**Health, Safety and Environmental Policy Statement**

Azinor Catalyst wishes to build value through developing sustainable long-term relationships between partners and the community. Azinor Catalyst believes that prevention of accidents and ill-health, protection of the environment and prevention of pollution are essential to the efficient operation of its business. The company is committed to achieving high standards of health, safety and environmental protection.

It is the Policy of Azinor Catalyst to comply with applicable legislation and other requirements where relevant. Azinor Catalyst will conduct all its activities in such a way as to:

- Protect the health and safety of all personnel involved in or affected by our operations;
- Consider the environmental impact of all of our activities and minimise adverse effects of our operations on the environment;
- Identify, evaluate and manage hazards and risks associated with our operations;
- Check that our employees and contractors are properly trained to work safely and with consideration for minimising environmental impacts where possible;
- Monitor and measure performance in relation to all aspects of our operations and set and achieve meaningful HS&E objectives;
- Monitor contractors to assure ourselves that they meet our expected HS&E standards;
- Respect the interests and needs of interested parties and in particular, any local citizens and associated communities; and
- Learn from our performance to continuously improve our performance, systems and behaviours.

Health, safety and environmental protection are responsibilities shared by everyone working for and on behalf of Azinor Catalyst, and the full support of all staff, partners and contractors is vital to the successful implementation of this Policy. Azinor Catalyst will communicate the requirements of the health, safety and environmental Policy to all personnel along with details and relevant training for associated delegated responsibilities. Health, safety and environmental performance will be monitored and regularly reported to the Board of Directors.

Signed



**Nick Terrell**  
Managing Director  
March 2019








## 4 2018 Environmental Reporting

This section provides an overview of environmental emissions during the drilling of the Plantain/ Agar appraisal well.

### 4.1 Atmospheric Emissions

Atmospheric emissions arise from power generation. Table 4-1 provides a summary of the fuel combustion during the drilling of the Plantain/ Agar appraisal well as entered into the Environmental Emissions Monitoring System (EEMS) through the UK Energy Portal.

**Table 4-1. AZC's 2018 Atmospheric Emissions**

Atmospheric Emission	Unit	Plantain/ Agar Appraisal Well
Fuel consumption (diesel)	Tonnes	1160.08
Flaring (oil/gas)	Tonnes	0
CO <sub>2</sub>	Tonnes	3712.26
CO	Tonnes	18.21
NO <sub>x</sub>	Tonnes	68.91
N <sub>2</sub> O	Tonnes	0.26
SO <sub>2</sub>	Tonnes	4.64
CH <sub>4</sub>	Tonnes	0.21
VOC	Tonnes	2.32

### 4.2 Chemical Use and Discharge

The Plantain/ Agar appraisal well was permitted under the Offshore Chemicals Regulations 2002 as amended (OCR) for the use and discharge of chemicals. The table below summaries total chemical use during routine drilling operations. The majority of these chemicals were Hazard Quotient (HQ) Category 'E' chemicals (products considered to pose the least potential environmental hazard).

**Table 4-2. AZC's 2018 Chemical Usage and Discharge**

Atmospheric Emission	Unit	Plantain/ Agar Appraisal Well
Gold (use / discharge)	Kilogrammes	40,951.00 / 2,271.61
SUB* (use / discharge)	Kilogrammes	922.00 / 90.00
A (use / discharge)	Kilogrammes	0 / 0
B (use / discharge)	Kilogrammes	0 / 0
C (use / discharge)	Kilogrammes	281,949.00 / 0
D (use / discharge)	Kilogrammes	7981.62 / 2,821.62
E (use / discharge)	Kilogrammes	2,049,288.88 / 1,184,403.68

\* The SUB chemical figures are a sum of all chemicals (e.g. OCNS A, B, C, D, E, and Gold) assigned with a 'SUB' warning.

### 4.3 Waste Management

During the 2018 Plantain/ Agar appraisal well drilling operations, a Waste Management Plan (WMP) was developed that encompassed the drilling unit, vessels and onshore support. The WMP covered the storage, transport and treatment of waste generated as part of the drilling programme. The WMP identified measures to reduce waste generated during drilling, as well as safe and responsible waste-handling procedures.

The Plantain/ Agar appraisal well produced a total of 1,411.95 tonnes of waste. The proportion of this waste managed per disposal route is shown in Table 4-3.

**Table 4-3: AZC's 2018 Waste Production**

Waste Category	Quantity of waste per disposal route (tonnes)							Totals (tonnes)
	Re-use	Recycling	Waste to Energy	Incinerate	Landfill	Other		
						Discharge under consent	Treatment	
<b>Group 1 – Special (Hazardous) Waste</b>								
Chemicals/ Paints	0.000	0.00	0.64	0.400	0.000	0.000	1.300	2.340
Drums/ Containers	0.000	1.357	0.000	0.000	0.000	0.000	0.000	1.357
Oils	0.000	0.000	61.24	0.000	0.000	0.000	0.000	61.240
Miscellaneous Special Waste	0.000	0.000	6.790	0.000	0.210	0.000	0.000	7.000
Sludges/ Liquids/ Tank Washings	0.000	0.000	0.000	0.000	0.000	0.000	925.10	925.100
<b>Group 2 – General Waste</b>								
Non-Hazardous Chemicals/ Paints	0.000	0.000	0.000	0.000	0.650	0.000	0.000	0.650
Drums/ Containers	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Scrap Metal	0.000	22.74	0.000	0.000	0.000	0.000	0.000	22.74
Segregated Recyclables	0.860	9.040	0.000	0.000	0.000	0.000	0.000	9.900
General Waste	0.000	0.000	0.000	0.000	4.450	0.000	0.000	4.450
Non-Hazardous Sludges/ Liquids/ Tank Washings	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Group 3 – Other Waste</b>								
<i>No Group 3 waste produced</i>								
<b>Group 4 – Back-loaded Drill Cuttings</b>								
Hazardous								
a) Solids	0.000	0.000	0.000	0.000	156.125	0.000	0.000	156.125
b) Oils	121.254	0.000	0.000	0.000	0.000	0.000	0.000	121.254
c) Water	0.000	0.000	0.000	0.000	99.797	0.000	0.000	99.797
Non-hazardous	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Group 4 Totals (tonnes)</b>	<b>121.254</b>	<b>0.000</b>	<b>2.261</b>	<b>0.000</b>	<b>255.922</b>	<b>0.000</b>	<b>0.000</b>	<b>377.176</b>

### 4.4 Environmental Incidents

During the 2018 Plantain/ Agar drilling programme there were zero environmental incidents that required an ePON 1 to be submitted via the UK Energy portal.

## 5 2019 Objectives and Targets

AZC has set corporate HSE objectives and targets for the business to meet during 2019 which are presented in Table 5-1 below.

**Table 5-1 AZC's HSE Objectives and Targets**

No.	Category		2019 Objectives and Targets
1	Safety	Lost Time Injury Frequency (LTIF)	<0.25
		Total Recordable Incident Rate (TRIR)	<1.0
2	Environment	CO <sub>2</sub> Emission / Energy Consumption	Measure CO <sub>2</sub> emissions for offshore activities.  Reduce emission to air by 2% against previous years campaigns
		Oil / Chemical Spill Incidents	Pollution Incidents = Zero  Use of chemicals categorised as posing little or no risk to the marine environment (PLONOR chemicals) as far as practicable.
		Waste Management	Monitor and measure Waste produced per drilling campaign
			Reduce waste produced by 2% against previous years campaigns
		Chemical Use	Identify areas where more environmentally friendly chemicals can be used for drilling projects.