UK National Data Repository
An introduction for Company Administrators

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January 2019
Housekeeping

1.1 Safety Brief – Room Safety & Fire Evacuation
1.2 Competition Law Reminder
Agenda

Setting the scene
- Objectives, Who’s who in the NDR?, An explanation of terms

OGA Powers and Regulations
- Overview in the context of Information and Samples

Break

Introduction to the National Data Repository
- Data Driven Value, Regulatory and Industry Requirements

Transition to the NDR
- Preparations, Launch, Operations
Setting the Scene

• Meeting preview and objectives
• Who’s who in the National Data Repository?
• An explanation of terms
Meeting preview and objectives

• Introduce the National Data Repository to Company Administrators
  – Priority users of the new service
  – Established users of UKOilandGasData as well as newcomers

• Review OGA’s regulations in relation to Information and samples
  – and how the NDR facilitates regulatory compliance

• Explain how NDR will work and how you will use it
  – Including how the NDR will facilitate collaboration
  – and promote the UKCS

• Prepare industry for the implementation of the NDR
The Oil and Gas Authority

- An authority whose role is to: Regulate, Influence and Promote the UK oil and gas industry in order to maximise the economic recovery of oil and gas resources
- HQ in Aberdeen with another office in London
- Largely funded by an industry levy since Oct 2015
- Oct 2016 - became a government company, under the Secretary of State for BEIS

- Implementing the NDR is a commitment in the OGA’s IM Strategy
Who’s who in the NDR?

Common Data Access Ltd

- CDA is a wholly owned, not-for-profit subsidiary of Oil & Gas UK, the leading representative body for the UK offshore industry
- Established by industry in 1995
- Dedicated to sharing costs and benefits arising from active cooperation in the management of industry data across the full range of E&P activities
- Currently provides the UKOilandGasData service to around 80 active members
- Provider of digital NDR services to the OGA
Who’s who in the NDR?

The British Geological Survey (BGS)

• Curator of the national collection of petroleum related samples on behalf of the OGA
• National Geological Repository (NGR) - Keyworth

Software Integrated Services (SIS)

• Leading provider of technology and services to the oil and gas industry
• Service provider to CDA for over 10 years for UKOilandGasData.com
• Provider of NDR technology and services to CDA
Who’s who in the NDR?

Relevant Persons defined in section 9A(1)(b) of the Petroleum Act 1998:

i. holders of petroleum licences
ii. operators under petroleum licences
iii. owners of upstream petroleum infrastructure
iv. persons planning and carrying out the commissioning of upstream petroleum infrastructure
v. owners of relevant offshore installations

Registered Users (inc. Supply Chain, Academia, general public)
Roles: A brief introduction

Information and Samples Coordinator
- OGA has the **power** to require Relevant Persons to appoint an ISC
- Single point of contact through whom to coordinate matters involving Information and Samples
- An obligation... that is not required for the operation of the NDR.
- One ISC per company

Company Administrator
- An **NDR** role assigned to **one or more** users within “relevant person” organisations (e.g. licensees)
- Providing the highest level of access available to NDR end users, including:
  - Create, update, manage and expire user accounts for users in your organisation
  - View and download data **entitled** to your company
  - Upload or update data items to an owned wellbore or seismic survey etc.
  - Set or update entitlements for wells, seismic surveys and other NDR items
- Necessary to enable your organisation to gain the full benefits available from the NDR
UKOilandGasData and the NDR

UKOilandGasData
• an online resource storing metadata about UKCS offshore oil and gas wells, 2D and 3D seismic surveys, infrastructure, licences and fields
• may be accessed, searched and displayed in a table or map, by registered users, at no cost
• confidential and disclosed data - stored in the system by and for CDA participants
• operated by CDA on the behalf of industry and other participants

National Data Repository
• an online resource storing metadata about UKCS offshore oil and gas wells, 2D and 3D seismic surveys, infrastructure, licences and fields
• may be accessed, searched and displayed in a table or map, by registered users, at no cost
• confidential and disclosed data - stored in the system by Relevant Persons and registered users
• operated by the OGA on the behalf of the nation, industry and other interested parties
Recap: Setting the Scene

- OGA - government company - Regulate, Influence and Promote the UKCS
- CDA - representative of industry – provider of NDR services to the OGA
- BGS - provider of NDR services to the OGA (Samples)
- SIS - provider of technology and services to CDA

- Relevant Persons and former licensees – “Regulatory Users” of the NDR
- Explanation of ISC and Company Admin
- Comparison of UKOilandGasData and the NDR
Overview: Regulations and Powers

• Updates to the OGA’s regulatory framework in relation to information and samples
  • including:
    – Petroleum Operations Notice 9 (PON9)
    – Retention of I&S under the Energy Act 2016
    – Reporting I&S to the OGA (Section 34)
    – Disclosure of reported information, by the OGA
    – Representation against Disclosure
    – ISP and ISC Powers
Petroleum Operations Notice 9

- Petroleum Act 1998 to date
- Applies to a “Licence Group” in relation to a licence
- Guidance on obligations to retain Licence Data and;
  - to report such data to the OGA, including:
    - Survey information (geophysics)
    - Wellbore information (subsurface)
    - Samples (core, drill cuttings, fluid samples etc)

- Well Data Release
  - UKOilandGasData & Data Release Agents

- Remains applicable to legacy information
- Revision in Q1 2019
Retention Regulations

• Came into force May 2018
• Apply to all “relevant persons”
• Give more clarity on what petroleum related information and samples must be retained:
  • Survey information (geophysics)
  • Wellbore information (subsurface, activities, engineering through entire lifecycle)
  • Production Information (daily by well)
  • Other information created on a licence
  • Pipelines, upstream infrastructure
  • Samples (core, drill cuttings, fluid samples etc)
• Retention obligation ends when information reported in accordance with s.34 notice
• Core samples (retained minimum 5 years with 6 months disposal notice thereafter)
• S.34 of EA 2016 gives OGA power to require relevant persons to provide it with information and samples by issuing a notice.
• A s.34 notice must:
  • specify “form and manner” (i.e. formats, media)
  • specify time when the I&S must be provided
• Non-compliance with a s.34 notice is sanctionable
• OGA will use s.34 to obtain information
  • For use in its role as a regulator
  • For disclosure at a time specified in disclosure regulations (made under chapter 6 of EA 2016)
• Used for annual stewardship surveys
• OGA intends to use for routine and ad hoc reporting
Disclosure Regulations

• Came into force August 2018
• Apply in practise when information and samples have been reported in response to s.34 notice
• Determine which reported information and samples the OGA may disclose to industry and the general public
• Set out the earliest dates by which reported information and samples may be disclosed
• Disclosure is made at the discretion of the OGA and may be carried out through the NDR

• Relevant Persons may make representation against routine disclosure of reported information
• Guidance explains the timescales and an overview of OGA procedure for such cases
EA 2016 v PA 1998: use of powers

- EA 2016 Retention regulations came into effect 14th May 2018 and apply to licences extant on that date
- Licences determined before that date still subject to PA 1998 model clauses on retention (“licensee to keep samples”)
- EA 2016 Disclosure regulations came into effect 13th August 2018

- For geophysical surveys, only information acquired 2018 onwards in scope of disclosure regs; earlier surveys to be disclosed under PA model clauses
- Wellbores completed in 2018 are in scope (earlier wellbores to be disclosed under PA 1998 model clauses)

- For other types of information they are applicable if:
  - event that determines disclosure occurs after commencement date and;
  - Information and Samples are requested under s.34

Note:
- The OGA will not “mix and match” powers
  - (i.e. will not report under PA 1998 and disclose under EA 2016)
- For wellbores only one regime will be used
- Most wellbores are already disclosed under PA 1998; any additional reported data for these wellbores will be disclosed under PA 1998
  - By 2021 all disclosure will be under EA 2016
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<th>Energy Act 2016 (new regulations)</th>
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<td>Well Information</td>
<td>Completion +3 or 4 Years</td>
<td>2 years from reporting</td>
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<tr>
<td>Summary Well Information</td>
<td>Immediate (limited scope)</td>
<td>Immediate (incl. Well results/Reservoir info)</td>
</tr>
<tr>
<td>Samples</td>
<td>Completion +3 or 4 Years</td>
<td>2 years from reporting</td>
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<tr>
<td>Proprietary Seismic</td>
<td>3 or 4 yrs from acq. year end</td>
<td>Completion of processing + 5 yrs</td>
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<tr>
<td>Commercial Seismic</td>
<td>Not routinely released</td>
<td>Completion of processing + 10 yrs (Post Stack)</td>
</tr>
<tr>
<td>Summary Geophysical Info</td>
<td>Not routinely released by OGA</td>
<td>Completion of acquisition (Survey metadata)</td>
</tr>
<tr>
<td>Production Information</td>
<td>Monthly + 3 months (by field)</td>
<td>Monthly + 2 months (by field)</td>
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<td>Other Licence Information</td>
<td>Not routinely released</td>
<td>On licence determination</td>
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<td>Summary Pipeline Info</td>
<td>Not routinely released by OGA</td>
<td>After pipeline works authorisation (PWA)</td>
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<td>Upstream Infrastructure info</td>
<td>Not routinely released by OGA</td>
<td>After COP of all connected fields</td>
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Information and Samples Coordinators

- ISC Provisions came into force October 2017
- Guidance published October 2017

- Require all ‘relevant persons’ to appoint an ISC
- Relevant persons are:
  - holders of petroleum licences
  - operators under petroleum licences
  - owners of upstream petroleum infrastructure
  - persons planning and carrying out the commissioning of upstream petroleum infrastructure
  - owners of relevant offshore installations

- The role is to coordinate all matters related to Energy Act 2016 Chapter 3 and;
  - all Information and Samples aspects of Petroleum Act 1998

- 95 relevant persons have appointed an ISC – virtually all licensees
Information and Samples Plans

- ISP Provisions came into force October 2017
- Guidance published October 2017

An ISP is a ‘plan’ regarding what will happen to Information and Samples following certain licence events:
- A transfer of rights under an offshore licence
- A surrender of rights (part or full)
- The expiry of an offshore licence (part of full)
- The revocation of an offshore licence by the OGA

The objective of an ISP is:
- Ensure licence related Information and Samples transfer to new licence partners – reducing risk of data loss
- Ensure data for licences ‘returning’ to the OGA are data compliant

MUST be agreed prior to a licence event - failure to have an agreed ISP will prevent a licence event
- Since October 2017 ~350 ISPs have been agreed
Information and Samples Guidance

Residual 1998 PA obligations
Covered by revised Petroleum Operations Notice (PON) 9 - Q1 19

ISP & ISC
Provisions came into force Oct 17
Guidance published Oct 17
>90 ISCs in place
>300 ISPs since Oct 17
From over 60 different companies

Retention
came into force May 18
Guidance Published May 18

Reporting - came into force Dec 16
Disclosure - came into effect Aug 18
Guidance to be published Q1 19
Separate guidance on Disclosure of Multiclient Seismic to be published

Regular Section 34 Notices Q1 19

Energy Act Chapters 3 & 6 & Petroleum Act
A Cultural Shift

- The OGA recognises a ‘cultural shift’ in the UK Petrotechnical Data Community
- The requirement to ‘agree’ an ISP has focused attention on:
  - Data transfer at the time of a **transfer of rights**
  - Data compliance at **licence surrender** (leaving a digital footprint)

- Forums are providing further focus:
  - **NDR Advisory Committee**
    - An OGA led group including OGA, Oil & Gas UK, BGS, industry representatives, academia and the OGTC
    - aimed at ‘advising’ the OGA on matters related to the NDR
  - **ISC Forum**
    - A Industry led group through which the OGA may inform ISCs on all matters to do with EA16 and PA98
      Information and Samples

- The OGA reinforces the message to industry, through various channels, the importance of effective and compliant practices in relation to data and is encouraged by the resulting cultural shift
Overview: Regulations and Powers

- PON9
- Retention Regulations – May 2018
- Reporting of I&S in response to a Section 34 notice
- Disclosure of I&S by the OGA – Representation against disclosure
- Information and Samples Coordinators
- Information and Samples Plans
- OGA Guidance
- Cultural Shift in relation to Information and Samples
Overview: National Data Repository

- Data Driven Value and Innovation
- National digital infrastructure
- Regulatory requirements
- Industry requirements
Why do we need a National Data Repository?

**The UK government’s Digital Strategy 2017 states that** “Analysis predicts that data will benefit the UK economy by up to £241 billion between 2015 and 2020. We must ensure business and government are able to use data in innovative and effective ways. This includes creating a strong infrastructure, having a high level of regulatory compliance, developing a data-literate workforce, and increasing numbers of people with advanced data skills.”

**The Digital Strategy 2017 goes further:** “Effective use of data can create £66 billion of new business and innovation opportunities in the UK, yet international studies show that the vast majority of existing datasets are nowhere near fully exploited, with most companies estimating that they analyse just 12% of their data”

Potential in data is so great that it is regarded as the raw material for an embryonic fourth industrial revolution.
National Data Repository

New national digital infrastructure:

- OGA led, backed by industry
  - Consultation; Q4 2017
  - Proposal to fund the NDR through the OGA levy charged annually to offshore licensees
- Continues the ‘collaborative model’ created by CDA
- Disclosed data accessible to the public at no charge
- Increased focus on compliance, machine readable content and quality
Satisfies regulatory requirements:

- **enduring regulatory access** to critical petroleum-related information and samples
- enable **retention and reporting** obligations of relevant persons to be discharged
- enable the **disclosure** of petroleum-related information by the OGA
- ensure the **sustainable curation** of petroleum-related information and samples
Satisfies industry requirements:

- facilitates **collaborative data interchange** between relevant persons, the broader oil and gas industry, academia, and the OGA to encourage economic activity
- **Relief of obligation** to retain reported information
- ensure that **maximum value** is derived from petroleum-related information through transparent access in the widest possible
Recap: National Data Repository

- Data Driven Value and Innovation
- National digital infrastructure
- Regulatory requirements – Reporting and Disclosure
- Industry requirements – collaboration, relief of obligations, economic opportunity
NDR: Preparations, Launch, and Operations
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NDR Data Lifecycle

UK Oil and Gas Data

Heritage Data

Operator

Create/ Acquire ➔ Retain ➔ Report ➔ Retrieve

Use/Reuse

Partners

Partners

Trades

A&D ➔ Share

OGA

Retain ➔ Regulate ➔ Use

NDR

• Value-add
• Innovation
• Fishing safety

Everyone

Disclose
NDR Delivery – Timeline

- NDR Contract Signed
- Well Header Improvement Project Completed
- NDR Event for Licensees 22nd January
- NDR available to Licensees 20th February
- NDR available to the Public
- NDR Roll-out Complete

- October
- November
- December
- January
- February
- March
- April

- Well & Seismic Data Preparation – CDA Member Data
- Well & Seismic Data Identification and Export – Ex-members

- UKOilandGasData read-only – data transfer starts 6th February
- UKOilandGasData shut down
Accessing the NDR – Key Roles

**Company Admin**
- Responsible for managing the Company’s use of the NDR, as delegated by that Company’s ISC
- Create / expire company users and assign company user roles
- Administer Changes of Ownership of information and Missing Data Requests

**Company Manager**
- Responsible for managing the Company’s information within the NDR
- Load and update the Company’s information within the NDR
- Set & manage Entitlements to information

**Company User**
- May access information which the Company has loaded to the NDR, or to which it has been entitled by other JV members
- Self-register, then role assigned by Company Admin. Must share same (non-free) email domain.

**Public User**
- May view, download, or order all disclosed information within the NDR
- Self-register within the NDR, once fully live
NDR – Loading of Information

- **Well information**
  - Well header: created and maintained in WONS
  - Documents & data: 100% online via self service
- **Seismic information**
  - PON14 Navigation & Survey Header: via PON14 closeout process, as at present
  - Documents: 100% online via self service
  - Trace data: via the NDR Help desk (chargeable service)
- ‘**Other Licence Information**’
  - Documents: 100% online via self service
  - Loading of document to surrendered Licences enabled through NDR Help desk
- **Infrastructure information**
  - Via twice-yearly call for data in April and October, as at present
NDR – Chargeable Services

• No charge is made for registration and use of the NDR, including all data downloads

• Charges will be made to recover costs incurred for the following:
  – Loading of seismic trace data
  – Bulk loading of well data, by agreement
  – Ordering of data on media

• Charges cover the time and materials required to deliver the services (e.g. supply of media and packaging, delivery, and insurance)

• All chargeable services are delivered by CDA, according to a price list regulated by the OGA, on a not-for-profit basis

• All services will be delivered according to the NDR’s Terms of Use, and CDA’s Terms of Sale
NDR: Key Regulatory Dates

- **Reporting Date** – when information loaded to the NDR is considered reported to the OGA
  - May be some time later than when the information is loaded (e.g. for documents relating to a newly drilled well, will be no earlier than 6 months after regulatory well completion)
  - Not all information loaded need be reported to the OGA – the NDR may also be used for JV / Partner sharing purposes

- **Disclosure Date** – when information reported to the OGA may be disclosed under relevant legislation
  - Where a date is set, disclosure is an automatic process
  - Licensees may make representations against disclosure. If successful, the disclosure date is not set

- **Date of Completion of Processing**
  - Used to determine the start of the confidentiality period for seismic datasets reported under the Energy Act 2016
NDR – Consequences for Data Access

- Perhaps the biggest single public release of geotechnical data ever
- All data to be released under OGA-specified Data Conditions of Use
  - Downloadable data (< 20Gb) available to all at no cost
  - Data ordered on media – chargeable service
- Industry Seismic Data Release Agreement process now terminated
  - Superseded by disclosure of data by the OGA once NDR is live
  - NDR will enable third party requests for loading, reporting and disclosure of survey data – subject to OGA approval
Governance – Information & Sample Coordinators Forum

- An active body for constructive dialogue between ISCs, the OGA and others, with the following purpose:
  - Develop and share good practice around Information & Samples regulations
  - Support the OGA in improving regulatory guidance
  - Challenge the OGA to amend regulations as necessary
  - Develop and adopt standards and best practices to support regulatory compliance
  - Training and communications for information and samples management and compliance
  - Identify collaborative measures to improve IM efficiency and performance
    - e.g. Specify standard contract terms for the form and manner of information and samples by contractors

Meets quarterly. Email isc@ogauthority.co.uk to attend.
Governance - NDR Advisory Committee

Composition:

**OGA Representation:**
- Nic Granger (Chair)  CFO
- Simon James     CIO
- Andy Thompson  NDR Manager
- David Lecore  Compliance Manager
- Carlo Procaccini  Technology Manager
- Nick Richardson  Exploration Manager

**Industry Representation:**
- Stephen Ashley  OGTC
- Matt Harrison  BGS
- Katy Heidenreich*  Oil & Gas UK
- Malcolm Fleming*  Oil & Gas UK (CDA)
- Rod Crawford*  Oil & Gas UK (Exploration SIG)
- Joyce Adie*  Oil & Gas UK (CDA IM/Tech)
- Jane Hodgson  ISC Forum (Premier)
- Niall Webster*  ISC Forum (BP)
- John Underhill  Herriot-Watt University

Meets in the last month of each quarter, plus annual ‘Open’ Meeting
Subsidiary working groups to be established – initial focus on tender for NDRv2