

GUIDELINES FOR REPORTING AND SUBMISSION OF OFFSHORE PETROLEUM DATA

Guidelines in relation to the Australian Government's *Offshore Petroleum and Greenhouse Gas Storage Act 2006* and the *Offshore Petroleum and Greenhouse Gas Storage (Resource Management and Administration) Regulations 2011*.

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1 Introduction

The National Offshore Petroleum Titles Administrator (NOPTA; Titles Administrator) is responsible for regulating the submission and release of information and samples under the *Offshore Petroleum and Greenhouse Gas Storage Act 2006* (OPGGSA) and in accordance with the *Offshore Petroleum and Greenhouse Gas Storage (Resource Management and Administration) Regulations 2011* (RMA Regulations).

The Act and RMA regulations can be found on the Title Administrator's website at <http://www.nopta.gov.au/legislation/index.html>. The OPGGSA and the RMA Regulations provide a framework for the adequate collection and timely dissemination of petroleum data. This is for the long term benefit of the Australian community as providing access to geoscientific data attracts the exploration industry to invest in Australian acreage.

These guidelines provide additional information to Part 7 of the RMA Regulations to assist industry in managing petroleum report, data and petroleum mining sample submission for geoscientific activities. The guidelines will be modified as required in accordance with prevailing petroleum legislation and supporting regulations and changes in technology. In the event of disagreement between these guidelines and current legislation or directions, the latter will prevail.

NOPTA in collaboration with Geoscience Australia and the (WA) Department of Mines and Petroleum (Geological Society of Western Australia), has established the National Offshore Petroleum Data and Core Repository (NOPDCR) through which petroleum mining samples and digital data are stored, maintained and made available for use once the relevant confidentiality periods expire and data is authorised for release.

NOPTA undertakes the compliance and quality control functions in relation to data submissions; and Geoscience Australia and the Western Australia Department of Mines and Petroleum provide data storage and access services.

For further information please contact:
NOPTA Compliance and Operations Support Manager
Phone: 08 64245300
Email: data@nopta.gov.au

2 Open Information

To assist in the management of metadata for wells and surveys, Part 1 of the RMA Regulations outlines the definitions for always-open information. A listing of offshore wells and surveys conducted in Australia is being developed by Geoscience Australia and will be hosted on their website.

open information about a survey means any of the following information:

- (a) the name of the survey;
- (b) the title under which the survey is being conducted;
- (c) the name of the titleholder;
- (d) the basin and sub-basin (if applicable) in which the survey is being conducted;
- (e) the type of survey;
- (f) the size of the survey in:
 - (i) for a 2-dimensional survey—kilometres; or
 - (ii) for a 3-dimensional survey square kilometres;
- (g) the name of the vessel or aircraft conducting the survey;
- (h) the name of the contractor conducting the survey;
- (i) the dates on which the survey starts and ends or is proposed to start and end;

- (j) whether the survey is exclusive or non-exclusive;
- (k) navigation data for the survey, in the form of:
 - (i) for a 2-dimensional survey—line ends and bends; or
 - (ii) for a 3-dimensional seismic survey—a full fold polygon outline; or
 - (iii) for other 3-dimensional surveys—a polygon outline.

open information about a well means any of the following information:

- (a) the name of the well;
- (b) the offshore area in which the well is located;
- (c) the basin and sub-basin (if applicable) in which the well is located;
- (d) the well's latitude and longitude;
- (e) the name of the title area in which the well is located;
- (f) the name of the titleholder;
- (g) the purpose of the well (for example development, appraisal, exploration or stratigraphy);
- (h) if the well is a sidetrack—the name of the parent well;
- (i) the well's spud date;
- (j) the water depth at the well;
- (k) what is being used as the depth reference for the well (for example the Kelly bushing or the rig floor);
- (l) the height of the depth reference above sea level;
- (m) the name of the rig drilling the well;
- (n) the rig's make and model;
- (o) the name of the rig contractor;
- (p) the rig release date;
- (q) the status of the well (for example producing, suspended or abandoned).

3 Export of Petroleum Mining Samples

Division 2 of Part 7 of the RMA Regulations require titleholders, who have conducted drilling operations, to seek approval prior to exporting confidential samples from Australia. This is not required for the sampling of petroleum mining samples that have already been publicly released, although approval to export may be required as part of the conditions of sampling imposed by the repository (Canberra or Perth) from which the samples are obtained.

Please direct requests for approval to export of confidential samples to data@nopta.gov.au and provide the following information:

- Title number.
- Well name(s).
- Rig release date(s).
- Confirmation that the titleholder/JVP requesting the export approval was responsible for the drilling of the well.
- The current location of the samples.
- Description and details of the samples.
- Details of analysis.
- If the analysis is destructive.
- The name, address and country of the company undertaking the analysis.
- Compliance with Regulations 7.07 to 7.10.
- Timeframe for returning samples and reporting.

4 Submission Variations

Part 7 of the RMA Regulations provide some provisions for variations to submission requirements, such as extended submission times and different media or formats. Titleholders requesting variations are to direct requests to data@nopta.gov.au and are to include the following information:

- Title Number(s).
- Relevant activity, such as well or survey name.
- The relevant regulation under which the request is being made.
- The relevant report or data type.
- Reason for the request.
- Requested alternative, for example new submission date or data format.
- Any impact on the availability of data for public release.

Submission timings are specified in Division 3 Part 7 of the RMA Regulations.

In relation to the submission of petroleum mining samples, variations in sample size or quantity due to drilling constraints; delays in submission due to contractor or additional analysis requirements; and requests to retain, preserve or resinate core must be approved.

5 Submission Addresses

The following table lists submission addresses for reports and data in relation to Part 7 of the RMA Regulations. Additional information about submission addresses and contact information is available on the Title Administrator's website www.nopta.gov.au.

General enquiries

To make an enquiry regarding ...	Then send an email to ...
general information,	info@nopta.gov.au .
finance, including invoicing and payments,	corporate@nopta.gov.au .
titles,	titles@nopta.gov.au .
geoscientific report/ data/ sample submissions such as: <ul style="list-style-type: none"> • well completion reports and data • seismic acquisition/ processing reports and data • core cuttings submissions, 	data@nopta.gov.au .
core sampling,	data@nopta.gov.au .
access to open file geoscientific data,	data@nopta.gov.au .
release of confidential data,	data@nopta.gov.au .
subscriptions or unsubscribing to the NOPTA Newsletter,	info@nopta.gov.au .

Submissions

To submit a ...	Then send an email to ...
title application,	titles@nopta.gov.au .
submit a title register search request,	titles@nopta.gov.au .
submit a transfer or dealing,	titles@nopta.gov.au .
submit a company name change,	titles@nopta.gov.au .
request a variation to submission requirements for geoscientific report/ data/ samples, for example, longer submission times; or different data formats,	data@nopta.gov.au .
request to export core/ cuttings,	data@nopta.gov.au .
submit a notification of survey commencement,	reporting@nopta.gov.au .
submit WOMP and well activities applications,	resources@nopta.gov.au .
submit development plans,	resources@nopta.gov.au .
submit applications for field development plans,	resources@nopta.gov.au .

To submit a ...	Then send an email to ...
submit applications for recovery before field develop plan approved,	resources@nopta.gov.au .
request approval of rate of recovery,	resources@nopta.gov.au .
submit notification of significant event,	resources@nopta.gov.au .

Reports

To submit a ...	Then send an email to ...
submit a drilling report,	reporting@nopta.gov.au .
submit weekly seismic reports,	reporting@nopta.gov.au .
submit monthly production reports,	reporting@nopta.gov.au .
submit title assessment reports,	reporting@nopta.gov.au .
request to combine title assessment reports,	reporting@nopta.gov.au .
submit discovery reports,	resources@nopta.gov.au .
submit notification of discovery reports,	resources@nopta.gov.au .
submit discovery assessment reports,	resources@nopta.gov.au .

Samples

For ...	Submit by post to ...	Additional information
well completion reports and data, survey acquisition, processing and interpretation reports and data, survey reprocessing reports and data,	Compliance and Operations Support Team: NOPTA GPO Box 7871 Perth WA 6850 NOPTA Level 8 Alluvion Building 58 Mounts Bay Road Perth WA 6000	Level 8 is open for deliveries between 8am and 5pm weekdays.
survey field and support data, including 1/3 core, cuttings, hydrocarbon samples,	Manager, National Offshore Petroleum Data & Core Repositories Geoscience Australia Cnr Jerrabomberra Ave and Hindmarsh Drive SYMONSTON ACT 2609	Advise ausgeodate@ga.gov.au prior to submission and CC to data@nopta.gov.au .
2/3 core and SWC,	Manager, National Offshore Petroleum Data & Core Repository Perth Core Library, 37 Harris Street CARLISLE WA 6101	Advise Petroleumcore.submissions@dmp.wa.gov.au prior to submission and CC to data@nopta.gov.au .
thin sections and slide,	Manager Petroleum Exploration Information Geological Survey Department of Mines and Petroleum 100 Plain Street EAST PERTH WA 6004	Advise ausgeodata@ga.gov.au and NOPTA Data Manager prior to submission and CC to data@nopta.gov.au .

6 Transmittals

NOPTA preferred transmittal forms are available at <http://www.nopta.gov.au/data-mgmt/transmittals.html>

Titleholders are requested to provide the following information in the all transmittals:

- Title number(s).
- Titleholder.
- The unique and accurate well or survey name.
- A clear list of reports and data in accordance with Part 7 of the Regulations.
- Contact details: name, email and phone number.

Wells:

- Location of the well (Lat/Long (decimal degrees preferred)).
- Whether it is a new well or existing well.
 - If an existing well, the type of well activity (eg. workover, re-entry etc.).
 - If a new well, the purpose of well (eg. Sidetrack, deepening, horizontal; exploration, appraisal or development etc).

Surveys:

- Full survey name and aliases.
- The seismic line prefix.
- The inclusion of any licensed non-exclusive data, which is still confidential.

7 Submission Receipt and Quality Control

Transmittal Forms will be returned by the Titles Administrator to acknowledge the submission and to indicate that a compliance quality control process will commence. Titleholders will be contacted regarding the outcome of the quality control process. If compliance issues are identified a re-submission process may be required.

8 Report and Data Submission Tables

The following tables combine regulatory information referenced from Part 7 of the RMA Regulations with the guidelines. Regulatory information is shown in **bold** text with the relevant regulation referenced in brackets. Variations permissible under the RMA Regulations are indicated by a “**V**”.

Regulatory information included in these guidelines is not a substitute for the RMA Regulations. Titleholders must refer to the RMA Regulations. The Title Administrator will manage data submission compliance in accordance with the RMA Regulations.

The public release column indicates data that the Title Administrator could choose to make publicly available under Part 8 of the RMA Regulations. As release dates vary depending on various criteria, only a reference to the relevant regulation is provided.

One criterion that determines the relevant day for making petroleum information publicly available is the classification of reports and data into basic or interpretative information, as defined by Regulation 8.01. Classification information is provided in the tables below.

Titleholders are requested to submit basic and interpretative information separately, to assist the Titles Administrator in processing the information for public release. Well completion reports and data are classified as Initial or Final as defined in Regulation 7.13. These classifications relate to submission timing and are not to be confused with the data classifications used for making data and information publicly available.

Classification Information

Data	Classification
Gravity/Magnetic Survey	<p>All data is basic information other than:</p> <ul style="list-style-type: none"> • potential field qualitative and quantitative interpretation maps/reports.
Seismic Survey	<p>All data is basic information other than:</p> <ul style="list-style-type: none"> • seismic picks, correlations and stratigraphic units on sections • time/depth contour maps • interpretation reports.
Lithological Data	<p>All data is basic information other than:</p> <ul style="list-style-type: none"> • core analysis studies carried out by titleholder research units utilising proprietary techniques.
Palaeontological Data	<p>All data is basic information other than:</p> <ul style="list-style-type: none"> • biostratigraphic zones • conclusions drawn from the Species Lists and Range Charts.
Source Rock Data	<p>All data is basic information other than:</p> <ul style="list-style-type: none"> • conclusions in the reports.
Routine Core Analysis (RCA)	<p>All data is basic information other than:</p> <ul style="list-style-type: none"> • all contractor derived data and results.
Special Core Analysis (SCAL)	<p>All data is basic information other than:</p> <ul style="list-style-type: none"> • relative permeability data • capillary pressure test data • water flood test results derived by titleholder research units utilising propriety techniques • All contractor derived data and results.
Regional Geological Data	<p>All data is basic information other than:</p> <ul style="list-style-type: none"> • regional basin wide geological and palaeonenvironment maps • regional formation structure and isopach maps.
Reservoir Engineering Data	<p>All data is basic information other than:</p> <ul style="list-style-type: none"> • analytical results from test data such as formation permeability, kh and productivity index.
Reservoir Data	<p>All data is basic information other than:</p> <ul style="list-style-type: none"> • structure, isopach and other maps of reservoir units • estimates on in-place and recoverable reserves

Data	Classification
	<ul style="list-style-type: none"> • reserve interpretation reports.
Well Drilling Data	All data is basic information other than: <ul style="list-style-type: none"> • well interpretation reports and maps.
Wireline Log Data	All data is basic information other than: <ul style="list-style-type: none"> • log interpretation • composite log.
Fluid Analysis	All data is basic information other than: <ul style="list-style-type: none"> • conclusions drawn
Formation Tops	All formation tops picked from electrical logs and other well data are regarded as interpretative.

The following points apply to all submissions:

- Hardcopies of reports and data are not to be submitted. If no format is indicated in the regulations, an electronic format appropriate to the report or data is to be used. For example PDF for a report.
- PDF files are to be security free.
- The Titles Administrator will not accept submissions made via an FTP (File Transfer Protocol) site or equivalent means.

Table 8.1: Wells

Petroleum Mining Samples

Report/ Data/ Samples	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Export core or cutting progress report of the analysis (r7.08)	N/A	PDF CD-ROM/DVD or portable hard drive	NOPTA postal or courier address	The end of each subsequent 12 month period from the authorisation date (r7.08)	Not released	<ul style="list-style-type: none"> Analysis report and data is to be submitted as part of the final well completion report (where available); or separately where the report becomes available after the final well completion report has been submitted.
Ditch cuttings (r7.20)	Petroleum Mining Sample (7.11 OPGGSA)	2 sets of 200 grams dry weight per sample interval. V. (r7.20)	1 x set to NOPDCR WA Department of Mines and Petroleum Core Store, Perth 1 x set to NOPDCR Geoscience Australia, Canberra	6 months after the rig release date. V. (r7.20)	(r8.15)	<ul style="list-style-type: none"> A minimum of 200g dry weight per sample interval set and thoroughly cleaned, dried and suitably packaged with indelible printing of well name, depth ranges.
Full hole conventional cores (r7.20)	Petroleum Mining Sample (7.11 OPGGSA)	1/3 of the core. V. (r7.20)	NOPDCR, Geoscience Australia, Canberra	6 months after the rig release date. V. (r7.20)	(r8.15)	<ul style="list-style-type: none"> If cut - fresh core slabbed vertically. Submission of raw imagery with core submission where possible. The 1/3 section should be provided to the NOPDCR (Canberra) in its entirety wherever possible.
Full hole conventional cores (r7.20)	Petroleum Mining Sample (7.11 OPGGSA)	2/3 of the core. V. (r7.20)	NOPDCR WA Department of Mines and Petroleum Core Store, Perth	As soon as practicable after the titleholder completes tests on the core (r7.20)	(r8.15)	<ul style="list-style-type: none"> If cut - fresh core slabbed vertically. Submission of raw imagery with core submission where possible. It is recognised that where further sampling and testing has been undertaken that less than 2/3 of the core may remain for submission to the NOPDCR (Perth). Where substantially less than 2/3 is to be submitted, reasons should be provided to NOPTA at data@nopta.gov.au as to why this is necessary.

Report/ Data/ Samples	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Core plugs	Petroleum Mining Sample (7.11 OPGGSA)	All material collected V. (r7.20)	NOPDCR WA Department of Mines and Petroleum Core Store, Perth	As soon as practicable after the titleholder completes tests (r7.20)	(r8.15)	<ul style="list-style-type: none"> • If cut and not consumed or contaminated by analysis. • Plugs to be numbered or indexed with the listing to be provided in initial or final WCR (where available); or separately where the report becomes available after these reports have been submitted.
Sidewall core material (r7.20)	Petroleum Mining Sample (7.11 OPGGSA)	All material collected V. (r7.20)	NOPDCR WA Department of Mines and Petroleum Core Store, Perth	The day 18 months after the rig release date. V. (r7.20)	(r8.15)	<ul style="list-style-type: none"> • if recovered.
Liquid hydrocarbon samples (r7.20)	Petroleum Mining Sample (711 OPGGSA)	1 litre V. (r7.20)	NOPDCR, Geoscience Australia, Canberra	<p>(a) if the sample is collected during the drilling of a well—the day 6 months after the rig release date; or</p> <p>(b) if the sample is collected during a test on a completed well—as soon as practicable after collection of the sample V. (r7.20)</p>	(r8.15)	<p>If collected from wireline, drill stem or production tests:</p> <ul style="list-style-type: none"> • Consultation with GA recommended • Submit in an API approved safety container. • See appendix 8.4 for further detail on hydrocarbon sample submission.
Gaseous hydrocarbon samples (r7.20)	Petroleum Mining Sample (7.11 OPGGSA)	300 cm³ V. (r7.20)	NOPDCR, Geoscience Australia, Canberra	As soon as practicable after completion of the test during which the sample is collected (r7.20)	(r8.15)	<p>If collected from wireline, drill stem or production tests:</p> <ul style="list-style-type: none"> • Contact GA prior to submission • Submit in an API approved safety container. • See appendix 8.5 for further detail on gas sample submission.

Report/ Data/ Samples	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Palynological slides and residues, Paleontological material and Petrological slides (r7.20)	Petroleum Mining Sample (711 OPGGSA)	All material collected (r7.20)	NOPDCR WA Department of Mines and Petroleum Minerals House , Perth	The day 18 months after the rig release date. V. (r7.20)	(r8.15)	<ul style="list-style-type: none"> If prepared.

Petroleum Mining Sample Analysis

Report/ Data/ Samples	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Reports on investigation, analysis, etc. of cuttings or cores	Basic	PDF CD-ROM/DVD or portable hard drive	NOPTA postal or courier address	6 months after completion of analysis	(r8.11)	<ul style="list-style-type: none"> Refer to repository conditions of sampling. Clearly identify well names and type of analysis. Report to include the final results of interpretation of the raw data.
Data from investigation, analysis, etc. of cuttings or cores	Basic	ASCII, XLS CD-ROM/DVD or portable hard drive	NOPTA postal or courier address	6 months after completion of analysis	(r8.11)	<ul style="list-style-type: none"> As a tab delimited ASCII file with metadata included and attached to the analysis report. Refer to conditions of sampling.

Initial Well Reports and Data

Report/ Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Daily drilling reports (r7.12)	N/A	PDF Email	reporting@nopta.gov.au	Midday on the day after the day to which the report relates (r7.12)	Not released	<ul style="list-style-type: none"> Please format the email subject line by; Titleholder: well name: daily drilling report number for example: Woodside: Bull 1: DDR3. Refer to Initial well completion report regarding public release. Daily logs if generated.

Report/ Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Initial well completion report (r7.13)	Basic	PDF CD-ROM/DVD or portable hard drive	NOPTA postal or courier address	6 months after the rig release date. V. (r7.13)	(r8.11)	<ul style="list-style-type: none"> • Daily drilling reports are to be included in the initial well completion report. • Hard copies are not to be submitted. • Image files and logs included in the report must be submitted as separate files. • Refer to RMA Regulations for information required in this report (r7.13). • Contact the NOPTA Compliance Manager regarding submission dates for wells drilled with top holes or for a well test after the rig release date. • See notes on petrophysical, geochemical or other sample analyses under Final WCR.
Raw data, edited field data and processed data for all wireline logs, MWD or LWD tools (r7.13, schedule 1)	Basic	LIS, DLIS or LAS CD-ROM/DVD or portable hard drive. V (r7.13, schedule 1)	NOPTA postal or courier address	6 months after the rig release date. V. (r7.13)	(r8.11)	<ul style="list-style-type: none"> • Include a verification listing of the data supplied. The data shall include full header information. • Processed data to include cleansed and spliced log runs (if generated) able to be directly loaded by users into geological and geophysical interpretation software. • Includes raw well data for all tests conducted.
Log displays (r7.13, schedule 1)	Basic	PDS, META, PDF or TIF CD-ROM, DVD or portable hard drive. V (r7.13, schedule 1)	NOPTA postal or courier address	6 months after the rig release date. V. (r7.13)	(r8.11)	<ul style="list-style-type: none"> • Continuous page at 1:500 and at 1:200 scale
Edited field and processed data for borehole deviation surveys (r7.13, schedule 1)	Basic	LIS, DLIS, ASCII, LAS, or XLS CD-ROM/DVD or portable hard drive. V (r7.13, schedule 1)	NOPTA postal or courier address	6 months after the rig release date. V (r7.13)	(r8.11)	<ul style="list-style-type: none"> • The data shall include full header information.

Report/ Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Mudlogging data (r7.13, schedule 1)	Basic	ASCII or LAS CD-ROM, DVD or portable hard drive. V (r7.13, schedule 1)	NOPTA postal or courier address	6 months after the rig release date. V. (r7.13)	(r8.11)	<ul style="list-style-type: none"> • Include a header giving field names, curve names and units of measure.
Mudlog display (r7.13,schedule 1)	Basic	TIF or PDF CD-ROM, DVD or portable hard drive. V (r7.13, schedule 1)	NOPTA postal or courier address	6 months after the rig release date. V. (r7.13)	(r8.11)	<ul style="list-style-type: none"> • Continuous page at a readable scale
If generated, data from velocity surveys including: (a) raw data; (b) Processed data; and (c) checkshot and time/depth analysis (r7.13,schedule 1)	Basic	DLIS or SEG-Y for raw data and processed data DLIS, SEG-Y or ASCII for checkshot data CD-ROM, DVD or portable hard drive. V (r7.13, schedule1)	NOPTA postal or courier address	6 months after the rig release date. V. (r7.13)	(r8.11)	<ul style="list-style-type: none"> • To include verification header file
Velocity survey displays (r7.13,schedule 1)	Basic	TIF, JPEG, PDF or PDS CD-ROM, DVD or portable hard drive. V (r7.13, schedule 1)	NOPTA postal or courier address	6 months after the rig release date. V. (r7.13)	(r8.11)	

Report/ Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Photography of the core and sidewall core, in both natural and UV light (r7.13,schedule 1)	Basic	JPEG, PNG or TIF CD-ROM, DVD or portable hard drive. V (r7.13, schedule 1)	NOPTA postal or courier address	6 months after the rig release date. V. (r7.13)	(r8.11)	<ul style="list-style-type: none"> • UV light photography to be done and submitted in fluorescent sections only. • Provide minimum 300 DPI image in 24-bit colour. High-resolution images able to be magnified (zoom in) without pixilation. If not in specified format, a reader program to be provided. • These are requested separately to images included in other reports so that original quality can be preserved. • Where possible, raw imagery to also be provided when submitting core samples.

Final Well Reports and Data

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Final well completion report (r7.14)	Interpretative	PDF CD-ROM/DVD or portable hard drive	NOPTA postal or courier address	18 months after the rig release date. V. (r7.14)	(r8.12)	<ul style="list-style-type: none"> • Image files and logs included in report must be submitted as separate files. • See notes on Petrophysical, geochemical or other sample analyses in this table.

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Petrophysical/Log analysis (r7.14, schedule 2)	Interpretative	LIS, DLIS, ASCII, LAS or XLS CD-ROM, DVD or portable hard drive. V (r7.14, schedule 2)	NOPTA postal or courier address	18 months after the rig release date. V. (r7.14)	(r8.12)	<ul style="list-style-type: none"> • As a tab delimited ASCII file with metadata included • This dataset was managed as 'basic data' under the previous <i>Petroleum (Submerged Lands) (Data Management) Regulations 2004</i> (2004 Regulations). The change from submission as part of the previous 'basic well completion' dataset to the 'final well completion' dataset in the RMA regulations was adopted to provide titleholders a longer submission time due to the difficulty with meeting the earlier 'basic' submission dates. Despite the later submission time, this dataset will still be managed as 'basic information' as defined in Regulation 8.01 of the RMA regulations. • To assist processing the public release of this dataset, titleholders are requested to either: <ol style="list-style-type: none"> 1. Submit the dataset as part of the final well completion report single PDF file and also submit this data as a separate file or files to the final well completion report, or 2. Submit this data as a separate file or files to the final well completion report.
Composite well log (r7.14, schedule 2)	Interpretative	TIF, JPEG or PDF CD-ROM, DVD or portable hard drive. V (r7.14, schedule 2)	NOPTA postal or courier address	18 months after the rig release date. V. (r7.14)	(r8.12)	<ul style="list-style-type: none"> • As part of the final WCR
Well index sheet (r7.14, schedule 2)	Interpretative	PDF CD-ROM, DVD or portable hard drive.V (r7.14, schedule	NOPTA postal or courier address	18 months after the rig release date. V. (r7.14)	(r8.12)	<ul style="list-style-type: none"> • As part of the final WCR

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Geochemical or other sample analyses (r7.14, schedule 2)	Basic	ASCII or XLS CD-ROM, DVD or portable hard drive. V. (r7.14, schedule 2)	NOPTA postal or courier address	18 months after the rig release date. V. (r7.14)	(r8.11)	<ul style="list-style-type: none"> As a tab delimited ASCII file with metadata included This dataset was managed as 'basic data' under the previous <i>Petroleum (Submerged Lands) (Data Management) Regulations 2004</i>. The change from submission as part of the previous 'basic well completion' dataset to the 'final well completion' dataset in the RMA regulations was adopted to provide titleholders a longer submission time due to the difficulty with meeting the earlier 'basic' submission dates. Despite the later submission time, this dataset will still be managed as 'basic information' as defined in Regulation 8.01 of the RMA regulations. To assist processing the public release of this dataset, titleholders are requested to either: <ol style="list-style-type: none"> Submit the dataset as part of the final well completion report single PDF file and also submit this data as a separate file or files to the final well completion report, or Submit this data as a separate file or files to the final well completion report.

Production Data

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Monthly production reports (r7.19)	Basic	PDF Email	reporting@nopta.gov.au	(a) starting on the last day of the named month to which the report relates; and (b) ending 15 days after that day. (r 7.19)	(r8.11)	

Table 8.2: Well Workover

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Daily reports	N/A	PDF Email	reporting@nopta.gov.au	Midday on the day after the day to which the report relates	Not released	<ul style="list-style-type: none"> • please format the email subject line by: Titleholder: Workover: Well name: Daily report number for example: Woodside: Workover: Bull 1: DDR3. • daily logs
Workover/re-entry report	Basic	PDF CD-ROM/DVD or portable hard drive	reporting@nopta.gov.au	6 months after completion of the well activity	(r8.11)	<ul style="list-style-type: none"> • Basic and Interpretative volumes must be separated; image files included in reports must also be submitted as separate JPEG or TIF files. • Where an interpretative volume is submitted, an operator may apply to the Titles Administrator for that data to be considered confidential (rr8.5).
Raw data, edited field data and processed data for all wireline logs, MWD or LWD tools (r7.13, schedule 1)	Basic	LIS, DLIS or LAS CD-ROM/DVD or portable hard drive. V (r7.13, schedule 1)	NOPTA postal or courier address	6 months after the rig release date. V. (r7.13)	(r8.11)	<ul style="list-style-type: none"> • Include a verification listing of the data supplied. The data shall include full header information. • Processed data to include cleansed and spliced log runs (if generated) able to be directly loaded by users into geological and geophysical interpretation software. • Includes raw well data for all tests conducted

Table 8.3: Seismic Survey

Seismic Survey

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Weekly survey report	N/A	PDF Email	reporting@nopta.gov.au	As soon as practicable after the end of each week of the survey (r7.15)	Not released	<ul style="list-style-type: none"> Please format the email subject line by: Titleholder: survey name: weekly survey report number for example: Woodside: Bull 2D: WSR3. Refer to survey acquisition regarding public release.

Acquisition Report and Data for 2D and 3D Surveys

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Seismic field data (r7.16, schedule 3)	Basic	SEG Standard 3592 cartridge or Other approved media V (r7.16, schedule 3)	NOPDCR, Geoscience Australia, Canberra	18 months after the day that the acquisition of the data is completed. V. (r7.16)	(r8.11)	<ul style="list-style-type: none"> To be accompanied by itemised field tape listing and support data (navigation, observer logs, etc). Must include observer logs. Where possible, the survey acquisition report should be submitted to NOPTA at the same time as the field data is provided to the NOPDCR.
Seismic support data (r7.16, schedule 3)	Basic	PDF CD-ROM, DVD or portable hard drive. V (r7.16, schedule 3)	1 x NOPDCR, Geoscience Australia, Canberra 1 x NOPTA postal or courier address	18 months after the day that the acquisition of the data is completed. V. (r7.16)	(r8.11)	<ul style="list-style-type: none"> Should be submitted concurrently with field data Observers logs. See Appendices 8.1 and 8.2 for requested details.
Itemised field tape listing showing: (a) tape number; (b) survey name; (c) line number;	Basic	ASCII CD-ROM, DVD or portable hard drive.	1 x NOPDCR, Geoscience Australia, Canberra 1 x NOPTA postal or courier address	18 months after the day that the acquisition of the data is completed. V. (r7.16)	(r8.11)	<ul style="list-style-type: none"> Field data showing tape number, survey name, line number, shotpoint range. see Appendix 8.3 (Seismic Data Listings) for the required format.

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
(d) shotpoint range; (e) data type. (r7.16, schedule 3)		V (r7.16, schedule 3)				
Survey acquisition report (r7.16)	Basic	PDF CD-ROM, DVD or portable hard drive	NOPTA postal or courier address	18 months after the day that the acquisition of the data is completed. V. (r7.16)	(r8.11)	<ul style="list-style-type: none"> Any retained outputs to be documented in report. To accompany itemised field tape listing Weekly survey reports are to be included. If surveys cross into international waters or JPDA, contact the NOPTA Data Manager to discuss data submission. Clearly identify the seismic line prefix and line numbers. Where possible, the survey acquisition report should be submitted to NOPTA at the same time as the field data is provided to the NOPDCR.
Raw navigation data (r7.16, schedule 3)	Basic	UKOOA (P2/94 or later) CD-ROM, DVD, portable hard drive or 3592 cartridge Or other approved media. V (r7.16, schedule 3)	1 x NOPDCR, Geoscience Australia, Canberra 1x NOPTA postal or courier address	18 months after the day that the acquisition of the data is completed. V. (r7.16)	(r8.11)	<ul style="list-style-type: none"> Refer to Appendix 8.1 (2D) and 8.2 (3D) for examples of the requirements for seismic data.

Processing Report for 2D and 3D Surveys

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Survey Processing Report (r7.17)	Basic	PDF CD-ROM, DVD or portable hard drive	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> To include sample print out of SEG Y header To include sample print out of SEG Y EBCDIC header, 3D grid definition details used for loading SEG Y into interpretation work stations. See Appendix 8.2 (3D Seismic Data) for example.

Processed Data for 2D Surveys

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Raw and final stacked data, including near/mid/far sub-stacks if generated (r7.17, schedule 4)	Basic	SEG-Y 3592 cartridge or Other approved media V (r7.17, schedule 4)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> Includes fully annotated EBCDIC header
Raw and final migrated data, including (if generated): (a) pre-stack time migration (PSTM); (b) pre-stack depth migration (PSDM); and (c) near/mid/far sub-stacks	Basic	SEG-Y 3592 cartridge or Other approved media. V (r7.17, schedule 4)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> Includes fully annotated EBCDIC header
Final processed navigation, elevation and bathymetry data	Basic	UKOOA (P1/90 or later) CD-ROM, DVD or portable hard drive. V (r7.17, schedule 4)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> 2D Header information of navigation / shotpoint location data including elevations or bathymetry. Header data must include geodetic datum, spheroid, projection and clearly stated transformation parameters. Refer to Appendix 8.1 for example of the requirements for 2D seismic data.
Shotpoint to common depth point (CDP) relationship	Basic	ASCII CD-ROM, DVD or portable hard drive. V (r7.17, schedule 4)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> Sufficient SP/CDP data for input into workstation interpretation. At least SOL and EOL relationships for each line and a listing of equivalent CDP/SP pairs for each line.

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
<p>Data for both stacking and migration velocities, including:</p> <p>(a) Line number; (b) shotpoint; (c) time versus root mean square (RMS) pairs</p>	Basic	<p>ASCII CD-ROM, DVD or portable hard drive. V (r7.17, schedule 4)</p>	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> • Including line number, shotpoint, time versus RMS pairs • ASCII Western Format.
<p>Itemised process tape listing showing:</p> <p>(a) tape number (b) survey name (c) line number (d) shotpoint range (e) common depth points (CDPs) (f) data type (r7.17, schedule 4)</p>	Basic	<p>ASCII CD-ROM, DVD or portable hard drive. V (r7.17, schedule 4)</p>	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> • Showing tape number, survey name, line number, shotpoint range, data type. See Appendix 8.3 (Seismic Data Listings) for format.

Processed Data for 3D Surveys

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Raw and final stacked data, including near/mid/far sub-stacks if generated	Basic	SEG-Y 3592 cartridge or Other approved media. V. (r7.17, schedule 4)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> Includes fully annotated EBCDIC header.
Raw and final migrated data, including (if generated): (a) pre-stack time migration (PSTM) (b) pre-stack depth migration (PSDM) (c) near/mid/far sub-stacks (r7.17, schedule 4)	Basic	SEG-Y 3592 cartridge or Other approved media. V. (r7.17, schedule 4)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> Includes fully annotated EBCDIC header.
Final processed navigation, elevation and bathymetry data (r7.17, schedule 4)	Basic	UKOOA (P1/90 or later) CD-ROM, DVD or portable hard drive. V. (r7.17, schedule 4)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> All associated data sufficient to re-process seismic data including shot and receiver coordinates. See Appendix 8.2 for example of the requirements for 3D seismic data.

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Final navigation data in the form of (a) final processed (grid) bin coordinates (b) polygonal position data (outline of the full fold area) (r7.17, schedule 4)	Basic	UKOOA (P6/98 or later) CD-ROM, DVD or portable hard drive. V (r7.17, schedule 4)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> • UKOOA 3D binning grids • Listing major inflection points of a polygon describing the location of the survey providing survey name, polygon point, inline/crossline nomenclature, latitude and longitude. (P6/98 format) • See Appendix 8.2 for example. • In (a), 'grid 'coordinates refer to bin centre coordinates.
Data for both stacking and migration velocities, including: (a) bin number (b) time versus root mean square (RMS) pairs (r7.17, schedule 4)	Basic	ASCII CD-ROM, DVD or portable hard drive. V (r7.17, schedule 4)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> • ASCII western format • Including bin number and time versus RMS velocity pair for both stacked and migrated velocities. • In (a), inline/ xline or bin/track and x/y navigation values are required. • In (b), PSTM and PSDM should include INT, Epsilon or Delta values where appropriate.
2D data subset, if production is required as a condition of the grant of a title (r7.17, schedule 4)		SEG-Y 3592 cartridge. V (r7.17, schedule 4)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> • Relates to non-exclusive surveys • Final migrated data. • Referred to in r1.05 as "seismic extracted data grid" – • 5 km x 5 km

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Itemised process tape listing showing: (a) tape number survey name (b) in-lines and crosslines (c) data type (r7.17, schedule 4)	Basic	ASCII CD-ROM, DVD or portable hard drive. V (r7.17, schedule 4)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> Showing tape number, survey name, in-lines and crosslines, cdps and data type.

Interpretative Report and Data for 2D and 3D Surveys

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Survey Interpretation Report and Data (r7.18)	Interpretative	PDF CD-ROM, DVD or portable hard drive. V. (r7.18)	NOPTA postal or courier address	30 months after the day that the acquisition of the data is completed. V. (r7.18)	(r8.12)	<ul style="list-style-type: none"> Required under the RMA Regulations if the titleholder undertakes a survey Not required for non-exclusive surveys.
Digital images of interpretation maps (r7.18, s5)	Interpretative	Geo-referenced TIF or PDF CD-ROM, DVD or portable hard drive. V. (r7.18, s5)	NOPTA postal or courier address	30 months after the day that the acquisition of the data is completed. V. (r7.18)	(r8.12)	<ul style="list-style-type: none"> These include TWT and depth structure maps at key horizons and representative sections showing seismic horizon picks as Geo-referenced TIF or PDF images Required under the RMA Regulations if the titleholder undertakes a survey Not required for non-exclusive surveys.

Table 8.4: Gravity, Magnetic and all other Geophysical or Geological Survey Data

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Weekly survey report	N/A	Email	reporting@nopta.gov.au	As soon as practicable after the end of each week of the survey (r7.15)	Not released	<ul style="list-style-type: none"> Please format the email subject line by: Titleholder: Survey name: Weekly survey report number for example: Woodside: Bull Aeromagnetic Survey: WSR3. Refer to acquisition report regarding public release.

Acquisition Report and Data

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Field data	Basic	ASCII CD-ROM, DVD or portable hard drive. (r7.16, schedule 3).	1 x NOPDCR, Geoscience Australia, Canberra 1 x NOPTA postal or courier address	18 months after the day that the acquisition of the data is completed. V. (r7.16)	(r8.11)	<ul style="list-style-type: none"> Aeromagnetic located field data. Must include: descriptive headers, flight number, line number, date and time, fiducial, raw magnetic reading, processed magnetic reading, radar and GPS or barometric altimeter, and base station reading. All coordinate data must also include clearly stated datum, spheroid and projection also transformation parameters if not in same coordinate system as was acquired in the field. Gravity field data. Including raw loop data, raw elevations plus measurement times and dates. All coordinate data must also include clearly stated datum, spheroid and projection, clearly stated transformation parameters if not in Including raw loop data, raw elevations plus measurement times and dates. All coordinate data must also include clearly stated datum, spheroid and projection, clearly stated transformation parameters if not in same coordinate system as was acquired in the field. All elevation values must be AHD. Altimeter, storm monitor, etc. (aeromagnetic only). One copy of analogy monitor records, diurnal records and altimeter records in an appropriate format. Other types of surveys (for example, CSEM). Submission and format details to be negotiated. Where possible, the survey acquisition report should be submitted to NOPTA at the same time as the field data is provided to the NOPDCR.

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Field support data and navigation data	Basic	ASCII CD-ROM, DVD or portable hard drive. (r7.16, schedule 3).	1 x NOPDCR, Geoscience Australia, Canberra 1 x NOPTA postal or courier address	18 months after the day that the acquisition of the data is completed. V. (r7.16)	(r8.11)	<ul style="list-style-type: none"> Please discuss with NOPTA.
Survey acquisition report (r7.16)	Basic	PDF CD-ROM, DVD or portable hard drive	NOPTA postal or courier address	18 months after the day that the acquisition of the data is completed. V. (r7.16)	(r8.11)	<ul style="list-style-type: none"> Refer to RMA Regulations for information required in this report (r7.16). Weekly survey reports are to be included. Titleholders are to submit only data acquired in Australian waters, which will be released in accordance with Part 8 of the RMA Regulations. Reports pertaining to surveys with data acquisition in Australian and international waters will be accepted and released in accordance with Part 8 of the RMA Regulations. Must include location map and flight line map if applicable. Aeromagnetic surveys: Including aircraft and survey equipment details and specifications, flight line directions and terrain clearance, line spacing, total line kilometres. Gravity surveys: Including meter type, scale factor for meter. Data must be tied to an Isogal station in the Australian Fundamental Gravity Network. Where possible, the survey acquisition report should be submitted to NOPTA at the same time as the field data is provided to the NOPDCR.

Processed Reports and Data

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Survey Processing Report	Basic	PDF CD-ROM, DVD or portable hard drive	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> Refer to RMA Regulations for information required in this report (r7.17). Processing report must include company details and processing parameters.

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Final processed data	Basic	ASCII or ASEG-GDF2 CD-ROM, DVD or portable hard drive. (r7.17, schedule 4, Part 3)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	<ul style="list-style-type: none"> Aeromagnetic processed data. Including pre and post microlevelling data. All coordinate data must also include clearly stated datum, spheroid and projection also clearly stated transformation parameters if not in same coordinate system as acquired in the field. Gravity processed data. Data must include: descriptive headers, station, XY lat/long coordinates, meter reading, observed gravity value, elevation value calculation errors, final processed gravity value. All coordinate data must also include clearly stated datum, spheroid and projection, also clearly stated transformation parameters if not in same coordinate system as acquired in the field.
Final processed images	Basic	PDF CD-ROM, DVD or portable hard drive. V (r7.17, schedule 4, Part 3)	NOPTA postal or courier address	24 months after the day that the acquisition of the data is completed. V. (r7.17)	(r8.11)	

Interpretative Report and Data

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Survey Interpretation Report and Data (r7.18)	Interpretative	PDF CD-ROM, DVD or portable hard drive. V (r7.18)	NOPTA postal or courier address	30 months after the day that the acquisition of the data is completed. V. (r7.18)	(r8.12)	<ul style="list-style-type: none"> Refer to RMA Regulations for information required in this report (r7.18).
Digital images of interpretation maps (r7.18, s5)	Interpretative	Geo-referenced TIF or PDF CD-ROM, DVD or portable hard drive. V (r7.18, schedule 5)	NOPTA postal or courier address	30 months after the day that the acquisition of the data is completed. V. (r7.18)	(r8.12)	<ul style="list-style-type: none"> These include any maps included in the Interpretation report as separate Georeferenced TIF or PDF images.

Table 8.5: Reprocessed Seismic Data
(Undertaken as part of Work Program)

Reprocessed Seismic Reports and Data

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Raw stacked data 2D and 3D, near/mid/far sub-stacks—if generated	Basic	SEG-Y 3592 cartridge (Schedule 4, Part 2) V	NOPTA postal or courier address	Not later than the end of the title year in which the information was created.	(r8.11)	<ul style="list-style-type: none"> • If the data reprocessed is licensed non-exclusive data that is still confidential, the data will not be made publicly available until the original survey is publicly available. • The original survey names and line prefixes are to be clearly identified. • Clearly identify the reprocessing project name, using the same project name for all submissions.
Raw and final migrated data including, PSDM / PSTM (2D and 3D), near/mid/far sub-stacks - if generated	Basic	SEG-Y 3592 cartridge (Schedule 4, Part 2) V	NOPTA postal or courier address	Not later than the end of the title year in which the information was created.	(r8.11)	
Final processed (grid) bin coordinates for 3D Seismic Survey	Basic	UKOOA CD-ROM/DVD or portable hard drive (Schedule 4, Part 2)	NOPTA postal or courier address	Not later than the end of the title year in which the information was created.	(r8.11)	<ul style="list-style-type: none"> • To be completed using UKOOA(P6/98 or later). • See Appendix 8.2 for example.
Polygonal positions for 3D data (Full Fold Outline)	Basic	UKOOA CD-ROM/DVD or portable hard drive	NOPTA postal or courier address	Not later than the end of the title year in which the information was created.	(r8.11)	<ul style="list-style-type: none"> • Listing major inflection points of a polygon describing the location of the survey providing survey name, polygon point, inline/crossline nomenclature, latitude and longitude (P6/98 format). See Appendix 8.3 for example.
Itemised processed tape listing	Basic	ASCII CD-ROM/DVD or portable hard drive	NOPTA postal or courier address	Not later than the end of the title year in which the information was created	(r8.11)	<ul style="list-style-type: none"> • Showing tape number, survey name, line number, shotpoint range, data type. – see Appendix 8.3 for format.

Report/Data	Classification	Format/ Media/ Quantity	Submission Address	Submission Date	Public Release	Remarks
Velocity data	Basic	ASCII CD-ROM/DVD or portable hard drive	NOPTA postal or courier address	Not later than the end of the title year in which the information was created.	(r8.11)	<ul style="list-style-type: none"> Include line number, shotpoint, time versus RMS pairs for both stacking and migration velocities.
Final report (Reprocessing)	Basic	PDF CD-ROM/DVD or portable hard drive V	NOPTA postal or courier address	12 months after the end of permit year in which processing was completed	(r8.11)	<ul style="list-style-type: none"> The original survey names and line prefixes are to be clearly identified. If the report related to the reprocessing of licensed non-exclusive survey data is still confidential, the report will not be made publicly available until the original survey is publicly available. Clearly identify the reprocessing project name, using the same project name for all submissions.
Final report (Interpretative)	Interpretative	PDF CD-ROM/DVD or portable hard drive	NOPTA postal or courier address	12 months after the end of permit year in which processing was completed	(r8.12)	<ul style="list-style-type: none"> Georeferenced TIF to include TWT and depth structure maps at key horizons and representative sections showing seismic horizon picks.
Digital images of interpretation maps	Interpretative	TIF or PDF CD-ROM/DVD or portable hard drive (Schedule 5)	NOPTA postal or courier address	12 months after the end of permit year in which processing was completed	(r8.12)	<ul style="list-style-type: none"> These include TWT and depth structure maps at key horizons and representative sections showing seismic horizon picks as Georeferenced TIF or PDF images.

Appendix 8.1: P1/90 Example of Data Requirements for 2D Seismic Data

H0100	SURVEY AREA	2D MSS, AC/P30, BROWSE BASIN, NW SHELF			
H0102	VESSEL DETAILS	ACADIAN SEARCHER 1			
H0103	SOURCE DETAILS	BOLT 3200 CU IN ARRAY 1 1			
H0104	STREAMER DETAILS	SYNTRAK 480-24 RDA 1 1			
H0200	DATE OF SURVEY	19990119-19990227			
H0201	DATE OF ISSUE OF TAPE	31-Mar-1999			
H0202	TAPE VERSION IDENTIFIER	UKOOA P1/90			
H0300	CLIENT	BHP PETROLEUM (AUSTRALIA) PTY LTD			
H0400	GEOPHYSICAL CONTRACTOR	VERITAS DGC AUSTRALIA PTY. LTD			
H0500	POSITIONING CONTRACTOR	FUGRO SURVEY PTY LTD			
H0600	POSITIONING PROCESSING	SPRINT			
H0700	POSITIONING SYSTEM	VESSEL_1 SPECTRA MRD GPS DGPS			
H0800	COORDINATE SYSTEM	CMP AT SHOTPOINT			
H0900	OFFSET SYSTEM TO CMP	1	2	0.00	-147.13
H0901	OFFSET SYSTEM TO GPS SECOND	1	2	-0.20	-0.20
H0902	OFFSET SYSTEM TO GPS PRIME	1	2	-0.70	0.40
H0903	OFFSET SYSTEM TO STERN	1	2	0.00	-45.50
H0904	OFFSET SYSTEM TO SOURCE	1	2	0.00	-87.46
H0905	OFFSET SYSTEM TO CNG	1	2	0.00	-206.80
H1000	CLOCK TIME	GMT 0.000			
H1100	RECEIVER GROUPS PER SHOT	480			
H1400	GEODETTIC DATUM AS SURVEY	AGD 84	Australian N 6378160.000 298.2500000		
H1500	GEODETTIC DATUM FOR POST.	AGD 84	Australian N 6378160.000 298.2500000		
H1700	VERTICAL DATUM	MSL : ECHOSOUNDER			
H1800	PROJECTION	2 UNIVERSAL TRANSVERSE MERCATOR			
H1900	ZONE	51 SOUTHERN ORIENTATED			
H2000	GRID UNITS	1	INTERNATIONAL METERS	1.000000000000	
H2001	HEIGHT UNITS	1	INTERNATIONAL METER	1.000000000000	
H2301	GRID ORIGIN	0 0 0.000N123 0 0.000E			
H2302	GRID COORDINATES	500000.00E10000000.00N			
H2401	SCALE FACTOR	0.9996000000			
H2600	IN THE SEG-D HEADERS AND ON AUTOMATIC TAPE LABELING THE SURVEY NAME WAS				
H2600	TRUNCATED TO 4 CHARACTERS, I.E. FROM HBR1998B- TO HBRB- TO FIT INTO				
H2600	8 CHARACTERS				
H2600	DEPTH DATA REDUCTION	CORRECTED FOR TRANSDUCER DEPTH			
H2600	DEPTH DATA REDUCTION	TIDAL CORRECTIONS APPLIED USING BHP PROVIDED			
H2600	DEPTH DATA REDUCTION	TIDE-TABLE FOR AC/P30.			
H2600	DEPTH DATA REDUCTION	ECHOSOUNDER VEL/P AT 1509 M/S			
H2600	COMPASSES	EXTERNAL, SELF BIASING, DIGICOURSE 318/321 IN 5011 BIRDS			
H2600	TAIL BUOY	NON ACTIVE			
H2600	SHOT RECORD DESCRIPTION	V=VESSEL REF POINT			
H2600	SHOT RECORD DESCRIPTION	E=ECHOSOUNDER POSITION			
H2600	SHOT RECORD DESCRIPTION	S=CENTRE OF SOURCE			
H2600	SHOT RECORD DESCRIPTION	C=NEAR CMP			
H2600	Line HBR1998B-02	From Shot 3437 To Shot 881			
VHBR1998B-02	1	3437131957.15	SCHEDULE	1224314.13E	469741.38526067.1 453.9 56 95128
EHBR1998B-02	1	3437131957.29	SCHEDULE	1224314.53E	469753.18526063.0 453.9 56 95128
SHBR1998B-02	11	3437131958.44	SCHEDULE	1224316.72E	469819.38526027.6 453.9 56 95128
CHBR1998B-02	111	3437131959.39	SCHEDULE	1224318.45E	469871.48525998.6 453.9 56 95128
VHBR1998B-02	1	3436131956.66	SCHEDULE	1224313.46E	469721.08526082.3 453.7 56 95138
EHBR1998B-02	1	3436131956.79	SCHEDULE	1224313.85E	469732.98526078.4 453.7 56 95138
SHBR1998B-02	11	3436131957.92	SCHEDULE	1224316.06E	469799.38526043.5 453.7 56 95138
CHBR1998B-02	111	3436131958.87	SCHEDULE	1224317.79E	469851.58526014.5 453.7 56 95138
VHBR1998B-02	1	3435131956.23	SCHEDULE	1224312.79E	469700.98526095.5 454.0 56 95148

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Appendix 8.2: Example of Data Requirements for 3D Seismic Data

Field Navigation

H01 SURVEY AREA	HV11 TIMOR SEA AUSTRALIA		
H02 SURVEY YEAR	1990		
H021 DATE OF TAPE	08/31/90		
H022 TAPE DENSITY	6250		
H03 CLIENT	BHP AUSTRALIA		
H04 GEOPHYSICAL CONTRACTOR	GECO GEOPHYSICAL CO. SFE		
H05 POSITIONING CONTRACTOR	ONI		
H06 NAV. PROCESSING CONTR.	GECO GEOPHYSICAL CO. NSA		
H07 NAVIGATION SYSTEM	SPOT		
H08 COORDINATE LOCATION	SOURCE AND RECIEVER POSITIONS		
H090 OFFSET-SYSTEM TO COORDS	ANTENNA TO 1ST GRP = 229.0 METERS		
H091 OFFSET-SYSTEM TO COORDS	SOURCE TO 1ST GRP = 133.0 M.		
H10 CLOCK TIME	G.M.T.		
H11 NR. OF RECEIVERS	480		
H11 NR. OF STREAMERS	TWO		
H111 NUMBERING OF RECIEVERS	CABLE 1	REC# 1-240	STARBOARD
H111 NUMBERING OF RECIEVERS	CABLE 2	REC# 241-480	PORT
H12 SURVEY SPHEROID	AUSTRALIAN NATIONAL	6378160.000	298.2500000
H13 POST PLOT SPHEROID	AUSTRALIAN NATIONAL	6378160.000	298.2500000
H14 SURVEY DATUM	AGD 66		
H15 POST PLOT DATUM	AGD 66		
H160 DATUM SHIFT:	PARAMETER FROM SURVEY TO POSTPLOT DATUM		
H161 SHIFT CONSTANTS:(METERS)	DX=	00.00	DY= 00.00 DZ= 00.00
H161	XROT=	0.00	YROT= 0.00 ZROT= 0.00
H161	DIMENSIONLESS SCALE FACTOR = 0.000 PPM		
H17 VERTICAL:	SEA LEVEL		
H18 PROJECTION:	TRANSVERSE MERCATOR		
H19 PROJECTION ZONE:	UTM ZONE NO.51 SOUTHERN HEMISPHERE		
H20 GRID UNIT:	METER		
H220 CENTRAL MERIDIAN:	1230000.000E		
H231 ORIGIN:	0000000.000 1230000.000E		
H232 FALSE EASTING,NORTHING	10000000.00N 500000.00E		
H241 SCALE FACTOR:	0.9996		
H242 LONG. AT SCALE FACTOR:	1230000.000E		
H26 COMMENTS: FINAL NAV OUTPUT WITH ONE SOURCE POSITION FOLLOWED BY 240			
H26 COMMENTS: STARBOARD AND 240 PORT RECIEVER POSITIONS			
SHV11-121	689123231.80	SCHEDULE 1242745.77E	6589207 86130480 89.4194232733
R 1	6590463	86129820	2 6590546 86129730 3 6590629 86129630
R 4	6590712	86129540	5 6590795 86129450 6 6590878 86129350
R 7	6590961	86129260	8 6591044 86129170 9 6591128 86129070
R 10	6591211	86128980	11 6591294 86128890 12 6591377 86128790
R 13	6591460	86128700	14 6591543 86128610 15 6591627 86128510
R 16	6591710	86128420	17 6591793 86128330 18 6591876 86128230
R 19	6591959	86128140	20 6592043 86128050 21 6592126 86127950
R 22	6592209	86127860	23 6592293 86127770 24 6592376 86127670
R 25	6592459	86127580	26 6592543 86127490 27 6592626 86127390
R 28	6592709	86127300	29 6592793 86127210 30 6592876 86127110
R 31	6592959	86127020	32 6593043 86126930 33 6593126 86126840
R 34	6593209	86126740	35 6593293 86126650 36 6593376 86126560
R 37	6593459	86126460	38 6593543 86126370 39 6593626 86126280
R 40	6593709	86126180	41 6593793 86126090 42 6593876 86126000
R 43	6593960	86125900	44 6594043 86125810 45 6594127 86125720
R 46	6594210	86125620	47 6594294 86125530 48 6594377 86125440
R 49	6594461	86125350	50 6594544 86125250 51 6594628 86125160
R 52	6594711	86125070	53 6594794 86124970 54 6594878 86124880
R 55	6594961	86124790	56 6595044 86124690 57 6595128 86124600
R 58	6595211	86124510	59 6595294 86124410 60 6595378 86124320
R 61	6595461	86124230	62 6595545 86124140 63 6595628 86124040
R 64	6595711	86123950	65 6595795 86123860 66 6595878 86123760

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P1/90 Post-Binning Navigation File

H0100	SURVEY & AREA NAME	HB96B, BUFFALO	130396				
H0101	GENERAL SURVEY DETAILS	DUAL CABLE, DUAL SOURCE 3D SURVEY					
H0102	VESSEL DETAILS	WESTERN HORIZON P131	1				
H0103	SOURCE DETAILS	N/A					
H0104	STREAMER DETAILS	N/A					
H0200	DATE OF SURVEY	MARCH TO MAY 1996					
H0201	POSTPLOT DATE	23 DECMBER 1996					
H0202	TAPE VERSION	UKOOA-P1/1990 (WESTERN VERSION 01.01)					
H0300	CLIENT NAME	B.H.P.					
H0400	GEOPHYSICAL CONTRACTOR	Western Geophysical.					
H0500	POSITIONING CONTRACTOR	Western Geophysical.					
H0600	PROCESSING CONTRACTOR	WESTERN ATLAS INTERNATIONAL					
H0700	POSITIONING SYSTEM	WISDOM (TM) INTEGRATED NAV SYSTEM					
H0800	COORDINATE LOCATION	STACK TRACE CENTRE OF BIN					
H0900	POSITION OFFSETS	N/A					
H1000	CLOCK TIME	GMT + 0 HOURS					
H1100	RECEIVER GROUPS PER SHOT	480					
H1400	GEODETTIC DATUM AS SURVEYED	AGD-84 AUSTRALIAN N 6378160.000				298.2500000	
H1401	TRANSFORMATION PARAMETERS	-116.0 -50.5 141.7 -.230 -.390 -.344 .0983000					
H1500	GEODETTIC DATUM AS PLOTTED	AGD-84 AUSTRALIAN N 6378160.000				298.2500000	
H1501	TRANSFORMATION PARAMETERS	-116.0 -50.5 141.7 -.230 -.390 -.344 .0983000					
H1600	DATUM SHIFTS	.0 .0 .0 .000 .000 .000 .0000000					
H1700	VERTICAL DATUM	MEAN SEA LEVEL ECHO SOUNDER					
H1800	PROJECTION TYPE	002UNIVERSAL TRANSVERSE MERCATOR					
H1900	UTM ZONE	52S					
H2000	GRID UNITS	1METERS 1.0000000000000					
H2001	HEIGHT UNITS	1METRES 1.0000000000000					
H2002	ANGULAR UNITS	1DEGREES					
H2200	CENTRAL MERIDIAN	129 0 .000E					
H2301	GRID ORIGIN	0 0 .000N129 0 .000E					
H2302	GRID COORDINATES AT ORIGIN	500000.00E10000000.00N					
H2401	SCALE FACTOR	.9996000000					
H2402	SCALE FACTOR DEFINED AT	0 0 .000N129 0 .000E					
H2600	DATUM ROTATION PARAMETERS ARE EXPRESSED IN COORDINATE FRAME SENSE						
H2600	H2600						
QHB96-10000	1900104642.22	SCHEDULE	1255821.88E	168901.08806882.5	528.2		
QHB96-10000	1901104641.89	SCHEDULE	1255821.89E	168901.08806892.5	528.2		
QHB96-10000	1902104641.57	SCHEDULE	1255821.89E	168901.08806902.5	529.8		
QHB96-10000	1903104641.24	SCHEDULE	1255821.89E	168901.08806912.5	529.8		
QHB96-10000	1904104640.92	SCHEDULE	1255821.89E	168901.08806922.5	529.8		
QHB96-10000	1905104640.59	SCHEDULE	1255821.90E	168901.08806932.5	529.8		
QHB96-10000	1906104640.27	SCHEDULE	1255821.90E	168901.08806942.5	529.8		
QHB96-10000	1907104639.94	SCHEDULE	1255821.90E	168901.08806952.5	529.8		
QHB96-10000	1908104639.62	SCHEDULE	1255821.91E	168901.08806962.5	529.8		
QHB96-10000	1909104639.29	SCHEDULE	1255821.91E	168901.08806972.5	529.8		
QHB96-10000	1910104638.97	SCHEDULE	1255821.91E	168901.08806982.5	529.8		
QHB96-10000	1911104638.64	SCHEDULE	1255821.92E	168901.08806992.5	529.8		
QHB96-10000	1912104638.32	SCHEDULE	1255821.92E	168901.08807002.5	529.8		
QHB96-10000	1913104637.99	SCHEDULE	1255821.92E	168901.08807012.5	529.8		
QHB96-10000	1914104637.67	SCHEDULE	1255821.93E	168901.08807022.5	529.8		
QHB96-10000	1915104637.34	SCHEDULE	1255821.93E	168901.08807032.5	529.8		

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Polygon Position Data and Processing Report Inclusion

Grid Definitions

Datum	AGD-84			
Spheroid	ANS	Semi-major axis	6378160.000	
		Semi-minor axis	6356774.719	
		Inverse flattening	298.25000	
		Eccentricity	0.006694	
Projection	UTM	Central meridian	120.00	
		Scale factor	0.99600	
		False Easting	50000.00	
		False Northing	10000000.00	
Datum shift from WGS-84 to LOCAL				
		dX	+116.0000	rX -0.230000
		dY	+050.4700	rY -0.390000
		dZ	500000.00	rZ -0.344000
		Scale	-0098300000	
Navigation origin		Easting	636744.95	
(inline 1001 crossline 1001)		Northing	8473164.88	
		Latitude	13 48 28.060 S	
		Longitude	124 15 540447 E	
Processing grid		CDP spacing	12.5m	
		CDP increment	1.0	
		Line spacing	12.5m	
		Line increment	1.0	
		Prospect angle	40.005000 degrees	
		Corner points of the grid		
		<u>X-coords</u>	<u>Y-coords</u>	<u>Inline</u> <u>Crossline</u>
		635870.41	8472619.28	981 921
		686385.321	8524919.867	981 6738
		663634.5862	8445803.044	4069 921
		714149.4973	8498103.631	4069 6738
		Total number of cells 17971802		

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Appendix 8.3: Seismic Data Listings

Survey Data Field and Processed Tape Listing

Box Number	Field Tape Number	Sequence (optional)	Line Number	First SP	Last SP	FF	LF	Date Written	Format	Media	Comments

Survey Support Data Listing

Box Number	Report	Item	Description	Data Type	Format	Media	Comments

Appendix 8.4: Hydrocarbon Samples

(updated Date: 16 April 2003)

Background:

Operators are required by the regulations under the Offshore Petroleum and Greenhouse Gas Storage Act 2006 (OPGGSA) to submit to Geoscience Australia fluid samples (crude oil, condensate and natural gas) recovered during exploration work programs. Samples must be taken from all wireline, drill stem or production tests, and must be representative of the reservoir fluid. Samples submitted to Geoscience Australia from onshore wells by the state/NT regulators or directly from Companies should also follow these guidelines. Outlined below are the following requirements for hydrocarbon samples.

1 Physical Sample

1.1 Representative Hydrocarbon Samples

A representative hydrocarbon sample must be taken from;

- the test tool for Repeat Formation Tester (RFT), Modular Formation Dynamics Tester (MDT) or equivalent, and
- the flow lines for Drill Stem Test (DST) and Production Test (PT).

The hydrocarbon sample must be representative of the reservoir and is not the remaining fraction left in the cylinder after (PVT or other) tests have been performed.

If multiple samples are collected from the same geological zone then the minimum requirement is for the submission of one representative sample; however, if ample sample is collected then submission of additional samples is encouraged. If liquid hydrocarbons are recovered, then the gas and liquid hydrocarbon pair from the same reservoir unit should be submitted.

1.2 Notes on Hydrocarbon Fluid Samples

For liquid hydrocarbons collected from the separator and stock tank, both types of sample should be submitted. Depending on the analysis that is to be performed at a later date, then these different sample types may be used for several purposes:

- Separator samples contain more light ends than stock tank samples so are more representative of the overall fluid composition.
- For gas/condensate analysis it is better to provide additional cylinders of gas so the liquids can be recovered in the laboratory.
- Both separator liquid and stock tank samples are useful for biomarker analyses, when the light ends are removed in the laboratory in order to concentrate the heavier molecules.

1.3 Flash samples of liquid hydrocarbons at atmospheric pressure

If liquid hydrocarbons are recovered from a DST or PT, 0.5–1L of the liquid hydrocarbons must be submitted at atmospheric pressure in a 1L screw top Pyrex/Schott glass bottle.

2 Data Requirements

The well and test data must be supplied with the transmittal. The sample (gas cylinder and/or glass bottle) must be labelled clearly (labels should not be hand written).

The information to be supplied is as follows:

- Well name

- Basin name
- Date and time of sampling
- Test type RFT/MDT (or equivalent)
- Depth of RFT/MDT (or equivalent) sample
- Depth of perforated interval for DST and PT sample
- Reservoir pressure
- Cylinder pressure
- Pressure conditions under which the sample was collected, i.e., wellhead, atmospheric etc.
- Conditions under which the sample was collected, i.e., dynamic or static, before or after the separator etc
- Temperature of formation or surface, as appropriate
- Weight of evacuated cylinder/valve(s)
- Weight of full cylinder/valve(s)

3 Freight and Storage

The operator is responsible to ensure that the sample container is suitable for both safe transport and storage at the pressure of its contents. All Occupational Health and Safety Guidelines must be followed. Dangerous Goods information must be supplied with the consignment.

4 Transmittal Requirements

A transmittal document must accompany the sample container, detailing the Service Company and Petroleum Company contact details and sample information. A return 'receipt of goods sheet' must be included.

Samples are to be sent to:

Geoscience Australia

Data Repository Manager

Cnr Jerrabomberra Avenue and Hindmarsh Drive, Symonston, ACT 2609

For further information contact:

Data Repository

Phone 02 6249 9222

Fax 02 6249 9903

E-mail ausgeodata@ga.gov.au

Appendix 8.5: Guidelines for the Submission of Natural Gas Samples

(updated Date: 16 April 2003)

Background:

Operators are required by the regulations under the Offshore Petroleum Greenhouse Gas and Storage Act 2006 (OPGGSA) to submit to Geoscience Australia fluid samples (crude oil, condensate and natural gas) discovered during exploration work programs. Samples must be taken from all wireline, drill stem or production tests, and must be representative of the reservoir fluid. Samples submitted to Geoscience Australia from onshore wells by the Designated Authority or directly from Companies should also follow these guidelines. Outlined below are the following requirements for hydrocarbon samples.

1 Physical Sample

1.1 Representative Natural Gas Samples

A representative hydrocarbon sample must be taken from;

- the test tool for Repeat Formation Tester (RFT), Modular Formation Dynamics Tester (MDT) or equivalent, and
- the flow lines for Drill Stem Test (DST) and Production Test (PT).

The gas sample must be representative of the reservoir and is not the remaining fraction left in the cylinder after (PVT or other) tests have been performed.

If multiple samples are collected from the same geological zone then the minimum requirement is for the submission of one representative sample; however, if ample sample is collected then submission of additional samples is encouraged. If liquid hydrocarbons are recovered, then the gas and liquid hydrocarbon pair from the same reservoir unit should be submitted.

1.2 Gas Cylinder Specifications

Samples must be stored in appropriate stainless steel gas cylinders that are new, clean and evacuated prior to filling. A total sample volume of 300 cc must be submitted as either one cylinder of 300 cc internal volume or two cylinders of 150 cc internal volume. The cylinders must be equipped with at least one appropriate on/off valve.

For RFT, MDT samples (or equivalent), the sample should be submitted at reservoir pressure where possible.

NOTE: GA Laboratory typically uses cylinders rated to 5000 psi, these can have 3000 psi valves or 5000 psi valves attached (according to requirement). This means that they would be able to hold a gas sample of about 2500 psi and 4500 psi, respectively.

For DST and PT surface samples, the sample should be submitted at the sampling pressure.

NOTE: GA Laboratory typically uses cylinders rated to 1800 psi.

The gas cylinders typically use a female 1/4" NPT swage lock gas tight fitting, therefore a male 1/4" NPT swage lock gas tight adaptor is used to connect to the parent cylinder.

2 Data Requirements

The well and test data must be supplied with the transmittal. The gas cylinder must be labelled clearly; (labels should not be hand written).

The information to be supplied is as follows:

- Well name
- Basin name
- Date and time of sampling
- Test type RFT/MDT (or equivalent)
- Depth of RFT/MDT (or equivalent) sample
- Depth of perforated interval for DST and PT sample
- Reservoir pressure
- Cylinder pressure
- Pressure conditions under which the sample was collected, i.e., wellhead, atmospheric etc.
- Conditions under which the sample was collected, i.e., dynamic or static, before or after the separator etc
- Temperature of formation or surface, as appropriate
- Weight of evacuated cylinder/valve(s)
- Weight of full cylinder/valve(s)

3 Freight and Storage

The operator is responsible to ensure that the sample container is suitable for both safe transport and storage at the pressure of its contents. All Occupational Health and Safety Guidelines must be followed. Dangerous Goods information must be supplied with the consignment.

4 Transmittal Requirements

A transmittal document must accompany the sample container, detailing the Service Company and Petroleum Company contact details and sample information. A return 'receipt of goods sheet' must be included.

Samples are to be sent to:

Geoscience Australia

Data Repository Manager

Cnr Jerrabomberra Avenue and Hindmarsh Drive, Symonston, ACT 2609

For further information contact:

Data Repository

Phone 02 6249 9222

Fax 02 6249 9903

E-mail ausgeodata@ga.gov.au

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