

STANDARD DATA MANAGEMENT PLAN (DMP) SURVEYS

This Standard DMP covers the data submission requirements for the specified survey.

Instructions

Please follow these instructions.

Section 1 General Information

- Complete all questions in Section 1.

Section 2 Data Management

- Carefully read Section 2. **Do not change Section 2.**
- If Section 2 is changed (ie. any additions, omissions or alterations) then the DMP is null and void.

Section 3 Holder's Agreement

- Complete Section 3. Suggested changes to Section 2 can be outlined in Section 3.
- The holder's agreement to the DMP, subject to any changes, is indicated in Section 3.
- Submit the DMP to the Designated Authority.

Section 4 Designated Authority's Agreement

- Do not fill in Section 4.
- The Designated Authority indicates acceptance in this section.
- If the Designated Authority is unable to accept this DMP, it will notify the holder in writing giving reasons for the decision.
- The DMP commences on the day the Designated Authority accepts it.
- A copy of the approved DMP will be supplied to the holder.

Thank you for your consideration and cooperation.

Contents

Section 1 General Information

Section 2 Data Management

Part 1 Statements

Part 2 Progress reports

201 Weekly report (Surveys)

Part 3 Data submission tables

Table 1: 2D seismic data

Table 2: 3D seismic data

Table 3: Gravity, magnetic and other survey data

Section 3 Holder's Agreement

Section 4 Designated Authority's Agreement

SECTION 1 GENERAL INFORMATION

Instructions:

- **Complete all questions in Section 1.**

Holder(s):

Company responsible for the data (including submission of the data to the Designated Authority):

Contact Person (provide name, title and contact details):

Date:

Activity (describe each activity to which the DMP relates):

State:

Basin:

Permit:

Description of each location for each activity (or enclose map):

Please place an 'X' next to the types of work that will be employed:

2D Seismic

3D Seismic

Gravity

Magnetic

Other

If 'Other' please specify:

Period of the activity:

The persons undertaking the activity*:

The techniques and equipment used to collect, process and interpret the data*:

Nominated address(es) for securing and storage of data:

Any other information that is reasonably necessary to demonstrate that this DMP complies with the Petroleum (Submerged Lands) (Data Management) Regulations 2004 as amended by the Petroleum (Submerged Lands) (Data Management) Amendment Regulations 2007 (No.1):

* Please note: It is acceptable for the DMP to refer to other documents. Eg. "See drilling programme" or "See survey application". If these document have not yet been submitted it should be stated that they will be provided in the future. Eg. A drilling programme will be submitted closer to the well spud date and will refer to this DMP". Such documents should also refer back to the DMP. Eg. "This drilling programme contains data that was required by but could not be provided in the DMP". Acceptance of the DMP does not imply that these documents have also been accepted.

SECTION 2 DATA MANAGEMENT

Instructions:

- **Carefully read Section 2. Do not change Section 2.**

- If Section 2 is changed (ie. any additions, omissions or alterations) then the DMP is null and void.

PART 1 STATEMENTS

101 A description of each activity to which the DMP relates and each location at which each activity will be carried out is given in Section 1 of this document.

102 A description of the reports and information, relevant to the activity, that the holder will make is given in Section 2 Part 2 and Section 2 Part 3 of this document. None of these reports and information will be kept (that is, not submitted to the Designated Authority).

103 The holder will give all the information listed in Section 2 Part 2 and Section 2 Part 3 of this document to the Designated Authority without a request by the Designated Authority. The holder will only keep (that is, not submit to the Designated Authority) information not specified in these parts.

104 The media and formats in which information, cores, cuttings or samples will be held is described in Section 2 Part 2 and Section 2 Part 3 of this document.

105 The media and formats described in Section 2 Part 2 and Section 2 Part 3 of this document are in accordance with the Guidelines for data submission required under Western Australia and Commonwealth petroleum legislation: Version 2 (2006).

106 The holder undertakes to allow reasonable access to any data that is made publicly available under the Petroleum (Submerged Lands) Act 1967 or the Petroleum (Submerged Lands) (Data Management) Regulations 2004 as amended by the Petroleum (Submerged Lands) (Data Management) Amendment Regulations 2007 (No.1). The holder will allow access to the data upon notification by the Designated Authority.

107 The holder will make arrangements to ensure that information is stored and preserved according to good archival practice. The storage of data will meet archival principles as stated in the Guidelines for data submission required under Western Australia and Commonwealth petroleum legislation: Version 2 (2006) and as recommended by the Australian Archives.

108 The holder will give reports and information in accordance with the timetables proposed in Section 2 Part 2 and Section 2 Part 3 of this document.

109 The data management performance objectives against which performance by the holder in managing the data is to be measured is that all data will be stored and submitted to the Designated Authority according to the conditions set out in this DMP. The measurement criteria that defines those objectives is that the environmental conditions of the archives will be monitored and the submission of data will be recorded.

110 The measurement criteria will confirm that the performance objectives are being met because monitoring environmental conditions will show that archival conditions meet archival principles as stated in the Guidelines for data submission required under Western Australia and Commonwealth petroleum legislation: Version 2 (2006) and as recommended by the Australian Archives. The data submission records will demonstrate abidance with the timetables in Section 2 Part 2 and Section 2 Part 3 of this document.

111 All documents and records will be stored in secure storage areas at the address(es) nominated in Section 1 of this document. The documents and records will be secured and maintained according to the archival principles as stated in the Guidelines for data submission required under Western Australia and Commonwealth petroleum legislation: Version 2 (2006) and as recommended by the Australian Archives so that retrieval of documents and other records is reasonably practicable.

112 The holder is responsible for the collection, storage and submission of information, cores, cuttings and samples obtained during the activity, until all the information, cores, cuttings and samples are submitted to the Designated Authority.

113 Any other information that is reasonable necessary to demonstrate that the DMP complies with the Petroleum (Submerged Lands) (Data Management) Regulations 2004 as amended by the Petroleum (Submerged Lands) (Data Management) Amendment Regulations 2007 (No.1) is given in Section 1 of this document.

PART 2 PROGRESS REPORTS

201 Weekly report (Surveys)

If a geological or geophysical field survey is in progress, a report will be given about survey operations carried out during a week.

A weekly report will be given as soon as practicable after the end of the week to which the report relates.

The media, format and the address used for the submission of this report will be in accordance to any instructions given by the Designated Authority.

PART 3 DATA SUBMISSION TABLES

TABLE 1: 2D SEISMIC DATA

DATA REQUIRED	REPORT TYPE	FORMAT	DATA FOR STATE GOVT. (DA)	DATA FOR FEDERAL GOVT. (GA)	DATE FOR SUBMISSION (prior to or by)	REMARKS
Field Data						
Navigation data - Includes final processed navigation and bathymetry data	Documentary	UKOOA	One copy	One copy	12 months after completion of acquisition	P1/90 or subsequent format with header information of navigation / shotpoint location data including elevations or bathymetry. Header data includes geodetic datum, spheroid, projection and clearly stated transformation parameters.
Raw Navigation data	Documentary	UKOOA	TP *		12 months after completion of acquisition	P2/94 or subsequent format.
Seismic field data	Documentary	SEG Standard	TP *		12 months after completion of acquisition	
Seismic support data	Documentary	PDF	TP *		12 months after completion of acquisition	Observers logs.
Itemised field tape listing	Documentary	Digital (ASCII)	One copy	One copy	12 months after completion of acquisition	Field data showing tape number, survey name, line number and shotpoint range.
Processed Data						
Raw and final stacked data, near/mid/far sub-stacks - if generated	Documentary	SEG-Y	One copy	One copy	12 months after completion of acquisition	Includes fully annotated EBCDIC header.
Raw and final migrated data including PSDM / PSTM, near/mid/far sub-stacks - if generated	Documentary	SEG-Y	One copy	One copy	12 months after completion of acquisition	Includes fully annotated EBCDIC header.
Shotpoint to CDP relationship	Documentary	ASCII	One copy	One copy	12 months after completion of acquisition	Sufficient SP/CDP data for workstation interpretation. At least SOL and EOL relationships for each line and a listing of equivalent CDP/SP pairs for each line.
Itemised process tape listing	Documentary	ASCII	One copy	One copy	12 months after completion of acquisition	Showing tape number, survey name, line number, shotpoint range and data type.
Velocity data	Documentary	ASCII (Western format)	One copy	One copy	12 months after completion of acquisition	Including line number, shotpoint and time versus RMS pairs for both stacked and migrated velocities.

Final Reports						
Final report (operations and navigation)	Documentary	PDF	One copy	One copy	12 months after completion of acquisition	Location map included. Onboard processing and any retained outputs to be documented in report.
Final processing report	Documentary	PDF	One copy	One copy	12 months after completion of acquisition	To include sample print out of SEG-Y EBCDIC header.
Final interpretation report	Derivative	PDF	One copy	One copy	18 months after completion of acquisition	
Digital images of interpretation maps	Derivative	TIF	One copy	One copy	18 months after completion of acquisition	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks as Geo-referenced TIF images.

* TP: Transfer proposals to be sent to the Designated Authority for approval to submit. The DA will then instruct as to which address the data is to be sent.

TABLE 2: 3D SEISMIC DATA

DATA REQUIRED	REPORT TYPE	FORMAT	DATA FOR STATE GOVT. (DA)	DATA FOR FEDERAL GOVT. (GA)	DATE FOR SUBMISSION (prior to or by)	REMARKS
Field Data						
Final Processed Navigation data - Includes bathymetry data	Documentary	UKOOA	TP *		18 months after completion of acquisition	All associated data sufficient to re-process seismic data including shot and receiver coordinates.
Raw Navigation data	Documentary	UKOOA	TP *		18 months after completion of the acquisition	P2/94 or subsequent format.
Seismic field data	Documentary	SEG Standard	TP *		18 months after completion of acquisition	To be submitted on high density media.
Seismic support data	Documentary	PDF	TP *		18 months after completion of acquisition	Includes observer's logs.
Itemised field tape listing	Documentary	ASCII	One copy	Data to be forwarded to GA by DA	18 months after completion of acquisition	Showing tape number, survey name, line number, shotpoint range and data type.
Processed Data						
Raw stacked data, near/mid/far sub-stacks - if generated	Documentary	SEG-Y	TP *		18 months after completion of acquisition	Includes fully annotated EBCDIC header.
Raw and final migrated data including PSDM / PSTM, near/mid/far sub-stacks - if generated	Documentary	SEG-Y	One copy	One copy	18 months after completion of acquisition	Includes fully annotated EBCDIC header.
Final processed (grid) bin coordinates	Documentary	UKOOA 3D binning grids	One copy	One copy	18 months after completion of acquisition	To be completed using UKOOA P6/98 format.
Polygonal position data (Full Fold Outline)	Documentary	ASCII tab delimited	One copy	One copy	18 months after completion of acquisition	Listing major inflection points of a polygon describing the location of the survey providing survey name, polygon point, inline/crossline nomenclature, latitude and longitude.
Velocity data	Documentary	ASCII (Western Format)	One copy	One copy	18 months after completion of acquisition	Includes bin number and time versus RMS velocity pair for both stacked and migrated velocities.
2D data subset (non-exclusive surveys)	Documentary	SEG-Y	One copy	One copy	18 months after completion of acquisition	Final migrated data.
Itemised process tape listing	Documentary	ASCII	One copy	One copy	18 months after completion of acquisition	Showing tape number, survey name, in-lines and crosslines, cdps and data type.

Final Reports						
Final report (operations and navigation)	Documentary	PDF	One copy	One copy	18 months after completion of acquisition	Location map included. Operations and Navigation Reports can be supplied as separate volumes. Onboard processing and any retained outputs to be documented in report.
Final processing report including grid definition	Documentary	PDF	One copy	One copy	18 months after completion of acquisition	To include sample print out of SEG-Y EBCDIC header and 3D grid definition details used for loading SEG-Y into interpretation work stations.
Final interpretation report	Derivative	PDF	One copy	One copy	18 months after completion of acquisition	
Digital images of interpretation maps	Derivative	TIF	One copy	One copy	18 months after completion of acquisition	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks as Georeferenced TIF images.

* TP: Transfer proposals to be sent to the Designated Authority for approval to submit. The DA will then instruct as to which address the data is to be sent.

TABLE 3: GRAVITY, MAGNETIC AND OTHER SURVEY DATA

DATA REQUIRED	REPORT TYPE	FORMAT	DATA FOR STATE GOVT. (DA)	DATA FOR FEDERAL GOVT. (GA)	DATE FOR SUBMISSION (prior to or by)	REMARKS
Field Data						
Aeromagnetic located field data	Documentary	ASCII columns	One copy	One copy	6 months after completion of survey	Includes 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 will include clearly stated datum, spheroid and projection. Will also include clearly stated transformation parameters if not in the same coordinate system as was acquired in the field.
Gravity field data	Documentary	ASCII columns	One copy	One copy	6 months after completion of survey	Includes raw loop data, raw elevations plus measurement times and dates. All coordinate data will include clearly stated datum, spheroid and projection. Will also include clearly stated transformation parameters if not in the same coordinate system as was acquired in the field. All elevation values must be AHD.
Altimeter, storm monitor, etc. (aeromagnetic only)	Documentary	ASCII (appropriate format)	One copy	No	6 months after completion of survey	Analog monitor records, diurnal records and altimeter records.
Other types of surveys	Documentary	See remarks	See remarks		See remarks	Submission and format details to be negotiated with the DA.
Processed Data						
Field and processed data	Documentary	ASCII	One copy	One copy	6 months after completion of survey	ASCII data includes ASEG-GDF2 format.
Aeromagnetic processed data	Documentary	ASCII GDF2	One copy	One copy	6 months after completion of survey	Includes pre and post microlevelling data. All coordinate data will include clearly stated datum, spheroid and projection. Will also include clearly stated transformation parameters if not in the same coordinate system as acquired in the field.

Gravity processed data	Documentary	ASCII GDF2	One copy	One copy	6 months after completion of survey	Includes descriptive headers, station, XY lat/long coordinates, meter reading, observed gravity value, elevation value calculation errors and final processed gravity value. All coordinate data will include clearly stated datum, spheroid and projection. Will also include clearly stated transformation parameters if not in the same coordinate system as acquired in the field. All elevation values must be AHD.
Geophysical images	Documentary	PDF	One copy	One copy	6 months after completion of survey	
Final Reports						
Final report (operations, navigation and processing)	Documentary	PDF	One copy	One copy	6 months after completion of survey	Includes location map and flight line map. Aeromagnetic surveys: Includes aircraft and survey equipment details and specifications, flight line directions and terrain clearance, line spacing and total line kilometres. Gravity surveys: Includes meter type and scale factor for the meter. Data will be tied to an Isogal station in the Australian Fundamental Gravity Network. Processing report will include company details and processing parameters.
Final interpretation report	Derivative	PDF	One copy	One copy	6 months after completion of processing	
Digital images of interpretation maps	Derivative	TIF	One copy	One copy	6 months after completion of processing	Maps included in the Interpretation report will be submitted as separate Georeferenced TIF images.

SECTION 3 HOLDER'S AGREEMENT

Instructions:

- **Complete Section 3. Suggested changes to Section 2 can be outlined in Section 3.**
- **The holder's agreement to the DMP, subject to any changes, is indicated in Section 3.**
- **Submit the DMP to the Designated Authority.**

Changes (if any):

The holder's agreement to this DMP, subject to changes (if any):

Name:

Title:

Company:

Date:

Signature:

SECTION 4 DESIGNATED AUTHORITY'S AGREEMENT

Instructions:

- **Do not fill in Section 4.**
- **The Designated Authority indicates acceptance in this section.**
- **If the Designated Authority is unable to accept this DMP, it will notify the holder in writing giving reasons for the decision.**
- **The DMP commences on the day the Designated Authority accepts it.**
- **A copy of the approved DMP will be supplied to the holder.**

The Designated Authority's agreement to this DMP, subject to changes (if any):

Bill Tinapple

Director

Petroleum and Royalties Division

Department of Industry and Resources

Date:

Signature: