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29 April 2005

Mr R Harms  
Manager, Petroleum Information Team  
Department of Primary Industries  
GPO Box 4440  
Melbourne VICTORIA 3001

Dear Mr Harms

**Re: Request for Variation of Accepted DMP (PE801513) – VIC L1-L11,L13-L20,1-R,4-R**

In accordance with the Petroleum (Submerged Lands) (Data Management) Regulations 2004, subregulation 18 (3) we seek your endorsement of a variation of the accepted Data Management Plan PE801513.

Those parts previously identified as conditional in the Data Management Plan acceptance letter dated March 8, 2005 have been addressed in the updated Data Management Plan.

The attached Data Management Plan has been submitted on behalf of the VIC 1-11L, 13-20L, 1-R and 4-R Licensees, Esso Australia Resources Pty Ltd and BHP Billiton Petroleum (Bass Strait) Pty Ltd.

Yours sincerely

A handwritten signature in black ink, appearing to read "Chris D. Shinnars".

Chris D. Shinnars  
Manager Safety Regulatory & OIMS

An **ExxonMobil** Subsidiary

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# Data Management Plan

<b>Licence</b>	<b>VIC 1-11-L,13-20-L, 1-R, 4-R</b>
<b> Holders</b>	<b>Esso Australia Resources Pty Ltd</b> (*company responsible for data)  <b>BHP Billiton Petroleum (Bass Strait) Pty Ltd</b>

This Data Management Plan (DMP) is designed to be a full lifecycle plan for all foreseeable and or potential activities to be undertaken within the title area. However, if there are material changes to the Guidelines for reporting and submission of Petroleum Data, then this DMP will be varied or revised and resubmitted, as appropriate. For other activities not covered in detail in this plan (or in the DMP Guidelines) the Company responsible for the data shall specifically detail information on that activity, prior to it occurring.

DMP Commencement Date: 1<sup>st</sup> Dec, 2004  
 DMP Expiry Date: 30<sup>th</sup> Nov, 2009

Signed for and behalf of  
**Esso Australia Resources Pty Ltd,**  
**BHP Billiton Petroleum (Bass Strait) Pty Ltd,**

Per:  .....  
 Chris D. Shinnars  
 Manager, Safety, Regulatory & OIMS

Date: 28 / 4 / 05

Version: 2.0

**Designated Authority acceptance:** .....

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**1. Location/Description of Title/Activity area**

The following general location information is applicable to **VIC 1-11,13-20-L, 1-R and 4-R (Regulation 12)**:

<b>AREA:</b>	Vic L1:	269 km <sup>2</sup>
	Vic L2:	337 km <sup>2</sup>
	Vic L3:	337 km <sup>2</sup>
	Vic L4:	270 km <sup>2</sup>
	Vic L5:	336 km <sup>2</sup>
	Vic L6:	269 km <sup>2</sup>
	Vic L7:	336 km <sup>2</sup>
	Vic L8:	268 km <sup>2</sup>
	Vic L9:	270 km <sup>2</sup>
	Vic L10:	270 km <sup>2</sup>
	Vic L11:	135 km <sup>2</sup>
	Vic L13:	201 km <sup>2</sup>
	Vic L14:	202 km <sup>2</sup>
	Vic L15:	134 km <sup>2</sup>
	Vic L16:	134 km <sup>2</sup>
	Vic L17:	67 km <sup>2</sup>
	Vic L18:	101 km <sup>2</sup>
	Vic L19:	67 km <sup>2</sup>
	Vic L20:	201 km <sup>2</sup>
	Vic RL 1:	64 km <sup>2</sup>
	Vic RL 4:	68 km <sup>2</sup>
<b>STATE:</b>	Victoria	
<b>BASIN:</b>	Gippsland Basin	
<b>AWARDED:</b>	Vic L1:	25-08-1988
	Vic L2:	25-08-1988
	Vic L3:	25-08-1988
	Vic L4:	25-08-1988
	Vic L5:	20-09-1989
	Vic L6:	20-09-1989
	Vic L7:	20-09-1989
	Vic L8:	20-09-1989
	Vic L9:	13-07-1995
	Vic L10:	29-05-1997
	Vic L11:	29-05-1997
	Vic L13:	16-12-1985
	Vic L14:	16-12-1985
	Vic L15:	14-06-1989
	Vic L16:	14-06-1989
	Vic L17:	14-06-1989
	Vic L18:	14-06-1989
	Vic L19:	13-07-1995
	Vic L20:	02-01-1998

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## 1. Location/Description of Title/Activity area (continued)

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**AWARDED:** Vic RL 1: 26-02-1992  
Vic RL 4: 28-02-2001

**EXPIRY DATE:** Vic L1: 24-08-2009  
Vic L2: 24-08-2009  
Vic L3: 24-08-2009  
Vic L4: 24-08-2009  
Vic L5: 19-09-2010  
Vic L6: 19-09-2010  
Vic L7: 19-09-2010  
Vic L8: 19-09-2010  
Vic L9: 12-07-2016  
Vic L10: 28-05-2018  
Vic L11: 28-05-2018  
Vic L13: 15-12-2006  
Vic L14: 15-12-2006  
Vic L15: 13-06-2010  
Vic L16: 13-06-2010  
Vic L17: 13-06-2010  
Vic L18: 13-06-2010  
Vic L19: 12-07-2016  
Vic L20: 01-01-2019  
Vic RL 1: 06-03-2005  
Vic RL 4: 27-02-2006

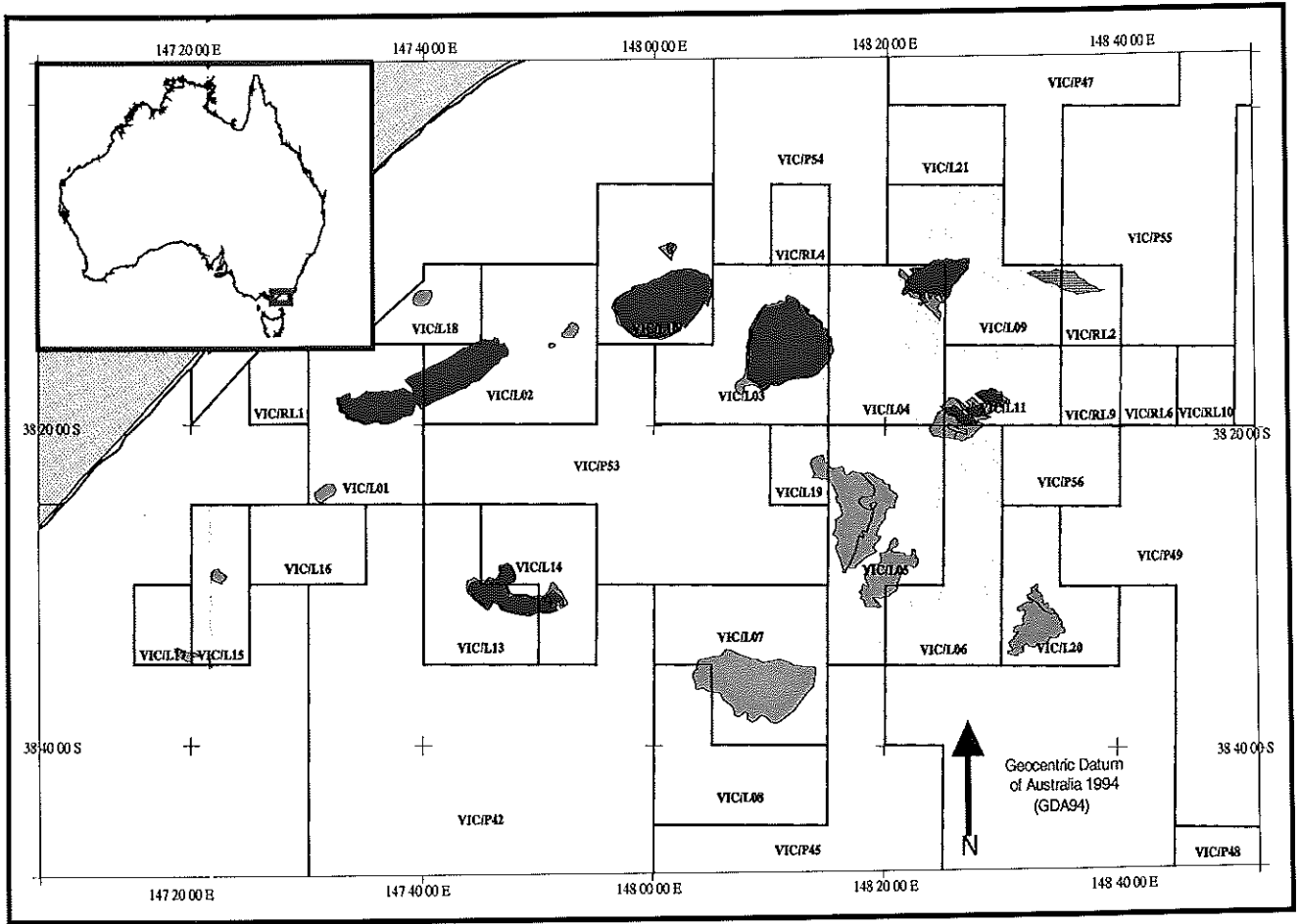
**OPERATOR:** Esso Australia Resources Pty Ltd. ("**Esso**")  
ACN 091 829 819  
12 Riverside Quay, Southbank, Victoria 3006

**ACT:** *Petroleum (Submerged Lands) Act 1967 (Cth)*

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1. Location/Description of Title/Activity area (continued)

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## 2. Specific Requirements of DMP per Schedule 1

Item	Regulatory Provisions	Application to this DMP
101	Description of: a. each activity to which DMP relates; b. each location where activity will be carried out.	This DMP is designed to be a full lifecycle plan for all foreseeable and potential activities to be undertaken within the title area. However, if the Guidelines for reporting and submission of petroleum data are updated then this DMP will be revised. For other activities not covered in detail in this plan (or in the DMP Guidelines) the company responsible for the data shall specifically detail information on that activity, prior to it occurring.
102	Description of reports & information, relevant to the activity, that will be made and kept.	As detailed throughout this document, relating to the specific activity.
103	Explanation of: a. data to be given to the Designated Authority without request by the Designated Authority; b. information to be kept.	a. Data to be submitted -refer to body of document, as pertinent to the associated activity. b. Data withheld – refer to body of document, as pertinent to the associated activity.
104	Description of media and formats for information, cores, cuttings or samples held.	The information and reports will be submitted in the format and on the media outlined in within the body of the document, as pertinent to the associated activity.
105	Explanation of how media and formats in item 104: a. are appropriate for type & volume of data collected; b. comply with Designated Authority requirements; c. comply with good industry practice.	Data medias and formats are described within the body of the document and these all comply with the Guidelines for data submission ( <b>the Guidelines</b> ) in respect of the <i>Petroleum (Submerged Lands) (Data Management) Regulations 2004 (Cth)</i> ( <b>the Regulations</b> ).
106	Undertake to allow access to data that is publicly available and explain how access will be allowed	Esso acknowledges that, upon written notification by the Designated Authority, it will allow reasonable access to any publicly available information or samples under its control.
107	Describe arrangements that ensure information is preserved according to good archive practice.	Data and Samples will be managed consistent with holders "Records Management Guidelines" This includes ensuring preservation via contracts with Offsite Storage Providers, and an Esso Information Centre Database containing an abstract of this information  Esso's Offsite Storage Provider is contractually obliged to ensure that all digital media is stored in accordance with the following environmental conditions:  Temperature: 20°C, +/- 3°C Humidity: 50%, +/- 10%

## 2. Specific Requirements of DMP per Schedule 1 (continued)

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Item	Regulatory Provisions	Application to this DMP
108	<p>Issue a statement that reports &amp; information will be given according to:</p> <p>a. the timetable outlined in Part 2 of the Schedule; or</p> <p>b. a timetable proposed in the DMP.</p>	<p>The timing of submission of data that will be made/collected during the period of the DMP is outlined within the body of the document, as pertinent to the associated activity.</p>
109	<p>Summary of:</p> <p>a. data management performance objectives against which performance will be measured; &amp;</p> <p>b. measurement criteria that define the objectives.</p>	<p>Data and reports will be submitted on time and in accordance with Guidelines (see item 105). Archival and Environment conditions will comply with the Guidelines (see item 105).</p>
110	<p>Explain how the measurement criteria will confirm that the performance objectives have been met.</p>	<p>Submissions timetable will be monitored and managed in-house via the ExxonMobil Safety, Regulatory and OIMS ("SRO") Regulatory Deadlines Database.</p> <p>Storage handling conditions will be controlled via contracts for data services.</p>
111	<p>Summary of arrangements for:</p> <p>a. secure storage of documents and records at a nominated address</p> <p>b. maintenance of documents and records in a way that makes retrieval of documents etc practicable.</p>	<p>Prior to being submitted to the Designated Authority as per timetables below, information and reports will be stored in a secure data storage room either at:</p> <p style="padding-left: 40px;">Esso Australia Resources Pty Ltd, 12 Riverside Quay, Southbank Melbourne, VIC 3006,</p> <p>Or, in the case of physical samples and digital tapes, at:</p> <p style="padding-left: 40px;">Ausdoc Information Management Kestrel Information Management 582-600 Somerville Rd, Sunshine, Victoria</p> <p>The storage of data will meet the ExxonMobil Document Retention Guidelines which address archiving requirements. It is noted that ExxonMobil requirements are in general agreement with recommendations made by the Australian Archives.</p> <p>Esso's Offsite Storage Provider is contractually obliged to ensure :</p> <ul style="list-style-type: none"> <li>• that data is stored in approved storage containers,</li> <li>• that storage areas are protected against unauthorised access, and are equipped with smoke detection devices and fire extinguishers, and,</li> <li>• that all digital media is stored in accordance with the following environmental conditions: Temperature: 20°C, +/- 3°C Humidity: 50%, +/- 10%</li> </ul>



**2. Specific Requirements of DMP per Schedule 1 (continued)**

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112	Acknowledge responsibility for collection, storage, and submission of information, cores, cuttings & samples obtained until all have been submitted to the Designated Authority.	The Operator acknowledges responsibility for collection, storage, and submission of information, cores, cuttings & samples obtained until all have been submitted to the Designated Authority.
113	Any other information that is necessary to demonstrate that the DMP complies with the Regulations.	As required, for specific instances.

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**3. Activity****3.1. 2D Seismic Acquisition & Processing****3.1.1. General Information (Regulation 12)**

The following information is applicable to the activity:

a	i	Location of the activity.	See Survey Application.
	ii	Period of the activity.	See Survey Application.
b		Persons undertaking activity.	See Survey Application.
c	i	The techniques and equipment used to collect the data.	See Survey Application
	ii	The techniques and equipment used to process the data.	See Survey Application.
	iii	The techniques and equipment used to interpret the data.	See Survey Application.
d		Progress reports.	Reporting requirements Weekly – see below.
e		Data acquisition report detailing the operations carried out as part of the activity.	Data acquisition report.
f		If processing is undertaken as part of the activity - a data processing report.	Data processing report.
g		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Interpretation report Maps.

**3.1.2. Written Information and Documentation (Regulation 14)**

The following written information and documents about each survey will be prepared as part of the activity, as appropriate/applicable:

	Description
a	field and processed digital survey data
b	a report describing the acquisition and processing of the data
c	navigation data
d	Interpretation report

**3.1.3. Reporting - Weekly Progress reports (Schedule 1, Part 2, item 202)**

The following information will be submitted as soon as practicable after the end of the week to which the report relates:

Report on survey operations during the week
---

3.1.4. Data Submission and Reporting Tables

2D Seismic Survey – acquisition and processing data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	State/Territory	Commonwealth+			
Navigation data (offshore) includes elevation and bathymetry data.	1 copy	1 copy	Media to comply with Guidelines UKOOA	18 Months after completion of acquisition of survey	To be provided in P1/90 including elevation and bathymetry data
Seismic field data	1 copy *	DA to supply archive address	SEG	18 Months after completion of acquisition of survey	Observer's logs
Seismic support data	Include details on field tape TP *	-	PDF	18 Months after completion of acquisition of survey	
Itemized field tape listing	Yes	Yes	ASCII	18 Months after completion of acquisition of survey	Showing tape number, survey name, line number, shotpoint range, data type.
Raw and final stacked data	1 copy	DA to forward to relevant archive	SEGY	18 Months after completion of acquisition of survey	If generated as part of the processing sequence. Including EBCDIC header
Raw and final migrated data	1 copy	DA to forward to relevant archive	SEGY	18 Months after completion of acquisition of survey	Including EBCDIC header
Fully annotated image of final processed data	1 copy	1 copy	CGM+, TIFF or PDF	18 Months after completion of acquisition of survey	Image file to be created using a time scale at least 5cm/sec.
Shotpoint to CDP relationship	1 copy	DA to forward to relevant archive	ASCII	18 Months after completion of acquisition of survey	SOL/EOL relationships & listing of CDP/SP pairs for each line.
Itemized process tape listing	Yes	Yes	ASCII	18 Months after completion of acquisition of survey	Showing tape number, survey name, line number, shotpoint range, data type.
Velocity data	1 copy	DA to forward to relevant archive	ASCII	18 Months after completion of acquisition of survey	Including line number, shotpoint, time vs RMS pairs for both stacked & migrated velocities.
Final report – Basic data including Operations Navigation Processing	1 copy	1 copy	PDF	18 Months after completion of acquisition of survey	
Final report – Derived data / Interpretation	1 copy	1 copy	PDF	18 Months after completion of acquisition of survey	For selected key representative surfaces / horizons over entire survey area <ul style="list-style-type: none"> <li>• TWT &amp; Depth Map</li> <li>• Velocity Map</li> <li>• Type Seismic line with interpretation marked</li> </ul> Summary descriptive report relating to products

\* Transfer Proposal for the Field Tapes to be sent to the Designated Authority for approval to submit

### 3.2. 3D Seismic Acquisition & Processing 0195

#### 3.2.1. General Information (Regulation 12)

The following information is applicable to the activity:

a	i	Location of the activity.	See Survey Application.
	ii	Period of the activity.	See Survey Application.
b		Persons undertaking activity.	See Survey Application.
c	i	The techniques and equipment used to collect the data.	See Survey Application
	ii	The techniques and equipment used to process the data.	See Survey Application.
	iii	The techniques and equipment used to interpret the data.	See Survey Application.
d		Progress reports.	Reporting requirements Weekly – see below.
e		Data acquisition report detailing the operations carried out as part of the activity.	Data acquisition report.
f		If processing is undertaken as part of the activity - a data processing report.	Data processing report.
g		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Interpretation report Maps.

#### 3.2.2. Written Information and Documentation (Regulation 14)

The following written information and documents about each survey will be prepared as part of the activity, as appropriate/applicable:

	Description
a	field and processed digital survey data
b	a report describing the acquisition and processing of the data
c	navigation data
d	Interpretation report

#### 3.2.3. Reporting – Weekly Progress reports (Schedule 1, Part 2, item 202)

Will be submitted as soon as practicable after the end of the week to which the report relates:

Report on survey operations during the week
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## 3.2.4. Data Submission and Reporting Tables

## 3D Seismic Survey – acquisition and processing data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	State/Territory	Commonwealth +			
Navigation data including field processed data	1 copy	1 copy	Media to comply with UKOOA Guidelines	18 Months after completion of acquisition of survey	To be provided in P1/90 including elevation and bathymetry data.
Seismic field data	1 copy*	DA to supply archive address	SEG	18 Months after completion of acquisition of survey	Observer's logs
Seismic support data	Include details on field tape TP *	-	PDF	18 Months after completion of acquisition of survey	
Itemized field tape listing	Yes	Yes	ASCII	18 Months after completion of acquisition of survey	Showing tape number, survey name, line number, shotpoint range, data type
Raw stacked data	1 copy	DA to forward to relevant archive	SEGY	18 Months after completion of acquisition of survey	If generated as part of the processing sequence. Including EBCDIC header.
Raw and final migrated data	1 copy	DA to forward to relevant archive	SEGY	18 Months after completion of acquisition of survey	Including EBCDIC header
Final processed grid (bin) coordinates	1 copy	1 copy	UKOOA P6/98	18 Months after completion of acquisition of survey	
Polygonal position data	1 copy	1 copy	ASCII	18 Months after completion of acquisition of survey	
3D velocity data	1 copy	DA to forward to relevant archive	ASCII	18 Months after completion of acquisition of survey	Including bin number, time vs RMS pairs for stacking and migrated velocities.
Itemised process tape listing	1 copy	1 copy	ASCII	18 Months after completion of acquisition of survey	Showing tape number, survey name, line number, crossline range, data type
Final report – Basic data including Operations Navigation Processing	1 copy	1 copy	PDF	18 Months after completion of acquisition of survey	
Final report – Derived data / Interpretation	1 copy	1 copy	PDF	18 Months after completion of acquisition of survey	For selected key representative surfaces / horizons over entire survey area <ul style="list-style-type: none"> <li>TWT &amp; Depth Map</li> <li>Velocity Map</li> <li>Type Seismic line with interpretation marked</li> </ul> Summary descriptive report relating to products

\* Transfer Proposal for the Field Tapes to be sent to the Designated Authority for approval to submit.

**3.3. 2D & 3D Seismic Reprocessing****0197****801625 014****3.3.1. General Information (Regulation 12)**

The following information is applicable to the activity:

a	i	Location of the activity.	See Proposal
	ii	Period of the activity.	See Proposal
b		Persons undertaking activity.	See Proposal
c	i	The techniques and equipment used to process the data.	See Proposal
	ii	The techniques and equipment used to interpret the data.	See Proposal
d		Data processing report.	Data processing report
e		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Interpretation report Maps.

**3.3.2. Written Information and Documentation (Regulation 14)**

The following written information and documents about each survey will be prepared as part of the activity, as appropriate/applicable:

	Description
a	a report describing the processing of the data
b	Interpretation report

**3.3.3. Reporting (Schedule 1, Part 2, item 202)**

As detailed in table 3.3.4

3.3.4. Data Submission and Reporting Tables

2D & 3D seismic reprocessing data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth+			
Raw stacked data (if generated as part of the processing sequence)	1 copy	DA to forward to relevant archive	SEGY	3 months after completion of reprocessing of data	Includes EBCDIC header
Raw and final migrated data	1 copy	DA to forward to relevant archive	SEGY	3 months after completion of reprocessing of data	Includes EBCDIC header
Itemised process tape listing	1 copy	1 copy	ASCII	3 months after completion of reprocessing of data	Showing tape number, survey name, line number, shotpoint range, data type.
Fully annotated image of final processed data	1 copy	1 copy	CGM+, TIFF PDF	3 months after completion of reprocessing of data	A paper QC plot must accompany the digital data, as a verification, in not less than 5cm/sec. Image file must be created using a time scale at least 5cm/sec
Final report (reprocessing)	1 copy	1 copy	PDF	6 months after completion of reprocessing of data	
Final report (derived data / interpretation)	1 copy	1 copy	PDF	18 months after completion of the reprocessing of data	For selected key representative surfaces / horizons over entire survey area <ul style="list-style-type: none"> <li>• TWT &amp; Depth Map</li> <li>• Velocity Map</li> <li>• Type Seismic line with interpretation marked</li> </ul> Summary descriptive report relating to products

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Data to be supplied if the conditions of borrowing data from archives include transcription of field data to high-density media

Field tape transcription log	1 copy or TP *	DA to provide archive address	ASCII	3 months after completion of reprocessing of data	Showing the original tape number, new tape number, survey name, line number, shotpoint range, data type, transcription parameters
Seismic field tape copies	1 copy or TP *	DA to provide archive address	SEG	3 months after completion of reprocessing of data	

+ Only required for areas under Commonwealth jurisdiction  
 \* Transfer proposals to be sent to the Designated Authority for approval to submit. The Designated Authority will then instruct as to which address the data is to be sent

3D seismic specific reprocessing data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth+			
Final processed grid (bin coordinates (for 3D seismic))	1 copy	1 copy	UKOOA 3D Binning Grids	3 months after completion of reprocessing of data	To be completed using UKOOA P6/98 format

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### 3.4. Gravity, Magnetic and Other Survey Data

#### 3.4.1. General Information (Regulation 12)

The following information is applicable to the activity:

a	i	Location of the activity.	See Survey Application.
	ii	Period of the activity.	See Survey Application.
b		Persons undertaking activity.	See Survey Application.
c	i	The techniques and equipment used to collect the data.	See Survey Application
	ii	The techniques and equipment used to process the data.	See Survey Application.
	iii	The techniques and equipment used to interpret the data.	See Survey Application.
d		Progress reports.	Reporting requirements Weekly– see below.
e		Data acquisition report detailing the operations carried out as part of the activity.	Data acquisition report.
f		If processing is undertaken as part of the activity - a data processing report.	Data processing report.
g		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Interpretation report Maps.

#### 3.4.2. Written Information and Documentation (Regulation 14)

The following written information and documents about each survey will be prepared as part of the activity:

The information will include, if appropriate/applicable:

	Description
a	field and processed digital survey data.
b	a report describing the acquisition and processing of the data.
c	Interpretation report

#### 3.4.3. Reporting (Schedule 1, Part 2, item 202)

The following information will be submitted as soon as practicable after the end of the week to which the report relates

Report on survey operations during the week
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3.4.4. Data Submission and Reporting Tables

Gravity, magnetic and other survey data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/ Territory	Commonwealth+			
Field magnetic located data	TP *	DA to provide archive address	ASEG-GDF	Six months after completion of the survey	Include: descriptive headers, flight number, line number, date and time, fiducial, raw magnetic reading, processed magnetic reading, GPS or barometric altimeter, and base station reading. All coordinate data must also include clearly stated datum, spheroid and projection also clearly stated transformation parameters if not in same coordinate system as was acquired in the field. A metadata file about the survey to accompany the field, located and gridded data to include the survey type, dates contractor parameters recorded and instruments used, altitude, line and tie spacing line orientation aircraft identification, calibration and defined null values. All coordinate data must also include clearly stated datum, spheroid and projection also clearly stated transformation parameters if not in same coordinate system as was acquired in the field.
Field gravity located data	TP *	DA to provide archive address	ASCII	Six months after completion of the survey	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. For marine gravity using a L&R meter, the beam velocity, spring tension, cross-coupling and the 6 acceleration monitors. For a Bell geoscience instrument, the 3 inline and 3 cross-line accelerations and the accelerations of the stabilized platform Format of these data to be negotiated with the Designated Authority
Field data for other types of surveys	TP *	DA to provide archive address	Digital	Six months after completion of the survey	Format of these data to be negotiated with the Designated Authority
Processed data for other types of surveys	TP *	DA to provide archive address	Digital	Six months after completion of the survey	Format of these data to be negotiated with the Designated Authority
Processed magnetic data (corrected and levelled) gridded data	TP *	DA to provide archive address	ASEG-GDF	Six months after completion of the survey	Digital data must include: descriptive headers, flight number, line number, date and time, fiducial, raw magnetic reading, processed magnetic reading, radar, GPS or barometric altitude, and base station reading. Include pre and post microlevelling data. A metadata file about the survey to accompany the field, located and gridded data to include the survey type, dates contractor parameters recorded and instruments used, altitude, line and tie spacing line orientation aircraft identification, calibration and defined null values. 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.
Processed gravity data (corrected and levelled) gridded data	Yes	Yes	ASEG-GDF	Six months after completion of the survey	Data must include: descriptive headers, station, measurement dates and times; XY lat/long coordinates, drift corrected meter reading, observed gravity value, Eovos correction, elevation value, calculation errors, final processed gravity value. For a L&R meter, the Beam velocity, Spring tension, cross-coupling and the 6 acceleration monitors. For a Bell geoscience instrument, the 3 inline and 3 cross-line accelerations are recorder along with the accelerations of the stabilized platform 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. All elevation values must be AHD. A metadata file about the survey to accompany the located and gridded data to include details of the instruments used, the survey type, dates contractor parameters recorded and instruments used, station spacing, calibration and defined null values, meter type, scale factor for meter. Data must be tied to an Isogal station in the Australian Fundamental Gravity Network. Images derived from the survey, e.g. TMI, Bouguer
Geophysical images	Yes	Yes	Grids in ER Mapper format, PDF	Six months after completion of the survey	
Final report – Basic data including Operations Navigation Processing	Yes	Yes	PDF	Six months after completion of the survey	Must include location map and flight line map. 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. Processing report must include company details and processing parameters.
Final report (derived data)	Yes	Yes	PDF	Six months after completion of the survey	
Digital images of interpretation maps	Yes	Yes	TIF	Six months after completion of the survey	These include any maps included in the interpretation report as separate Geo-referenced TIF images

+ Only required for areas under Commonwealth jurisdiction  
\* Transfer proposals to be sent to the Designated Authority for approval to submit. The Designated Authority will then instruct as to which address the data is to be sent

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**3.5. Wells****3.5.1. General Information (Regulation 12)**

The following written information and documents will be prepared as part of the activity:

a	i	Location of the activity.	See "Application for Approval to Drill"
	ii	Period of the activity.	See "Application for Approval to Drill"
b		Persons undertaking activity.	See "Application for Approval to Drill"
c	i	The techniques and equipment used to collect the data.	See "Application for Approval to Drill"
	ii	The techniques and equipment used to process the data.	See "Application for Approval to Drill"
	iii	The techniques and equipment used to interpret the data.	See "Application for Approval to Drill"
d		Progress reports.	Reporting requirements Daily.
e		Data acquisition report detailing the operations carried out as part of the activity.	Well Completion Report (Basic Data).
f		If processing is undertaken as part of the activity - data processing report.	Well Completion Report (Basic Data).
g		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Well Completion Report (Interpretive Data) Maps.

**3.5.2. Written Information and Documentation (Regulation 13)**

The following written information and documents about each well will be prepared as part of the activity:

	Description
a	field and processed digital log data;
b	displays of logs generated
c	mud log displays
d	digital mud logging data
e	down hole survey data
f	report of the purpose, operation and progress of the well
g	photographs of the well core
h	a well completion report.

The information will also include, if appropriate/applicable & not required for ongoing studies:

	Description
a	cores, core cuttings and fluid samples
b	sample slides
c	residues

### 3.5.3. Reporting – Daily Drill reports (Schedule 1, Part 2, item 206)

One e-mail copy will be submitted to the Designated Authority no later than midday on the day after the day to which the report relates:

a	Name and Location of well
b	Drilled depth
c	Work carried out
d	Lithology of formations penetrated
e	Any indications of petroleum
f	Summary of Material Usage
g	Results of surveys made in the well bore
h	A leak off test summary
i	Hole geometry
j	Estimated daily and cumulative well costs

Rig inspection reports will be provided upon request from the Designated Authority.

3.5.4. Data Submission and Reporting Tables

Well data plan (Documentary information)

Data to be submitted	Copies required by		Format	Scales required	Data due date	Remarks
	States/Territory	Commonwealth +				
Edited field and processed data for all wireline logs	CD ROM or DVD	DA to forward to relevant archive	LIS,DLIS,or LAS,		Six months after completion of the well.	With a verification listing of the data supplied. The data shall include full header information.
Edited field and processed data (including borehole deviation surveys) for all MWD or LWD tools	CD ROM or DVD	DA to forward to relevant archive	LIS,DLIS, or LAS,		Six months after completion of the well	With a verification listing of the data supplied. The data shall include full header information.
Mudlogging data	CD ROM or DVD	DA to forward to relevant archive	LAS,ASCII		Six months after completion of the well	With a header giving filed names and units of measure
Processed data for velocity surveys	CD ROM or DVD	DA to forward to relevant archive	SEGY		Six months after completion of the well.	With a verification header file
Wireline log displays	CD ROM or DVD	CD-ROM or DVD	PDF or PDS or TIF	200/500	Six months after completion of the well	
MWD or LWD log displays	CD ROM or DVD	CD ROM or DVD	PDF or PDS or TIF	200/500	Six months after completion of the well	
Mudlog display	CD ROM or DVD	CD ROM or DVD	PDF or TIF	500	Six months after completion of the well.	
Ditch cuttings	One set	One set			Six months after completion of the well.	Each a minimum of 100g dry weight and thoroughly cleaned, dried and packaged with indelible printing of Well name, depth ranges.
Full hole cores, if cut	1/3 slab	1/3 slab			Six months after completion of the well	
Well completion report Basic data	CD ROM	CD ROM	PDF		Six months after completion of the well.	Image files included in report PDF may also be submitted as separate TIFF files.
Well index sheet	CD ROM	CD ROM	PDF		Six months after completion of the well.	Included in the derived data volume of the well completion report
Digital petrophysical, geochemical or other analyses	CD ROM	CD ROM	LAS for Petrophysical ASCII or Excel for other analyses		Six months after completion of the well.	As a tab delimited ASCII file with metadata included. Included with well completion report.
Velocity log displays	CD ROM	CD ROM	PDF	200	Six months after completion of the well.	

## Well data plan (Documentary information) - continued

Data to be submitted	Copies required by		Format	Scales required	Data due date	Remarks
	States/Territory	Commonwealth+				
Core photography	CD ROM	CD ROM	TIF or JPG or PDF		Six months after completion of the well.	if prepared
Well completion report Derived (interpretive) data	CD ROM	CD ROM	PDF		Six months after completion of the well.	Image files included in report PDF
Composite well log	CD ROM	CD ROM	PDF or TIF	500	Six months after completion of the well.	
Gaseous hydrocarbon samples (in an API approved safety container)	No	Representative Sample			Twelve months after completion of the well.	If collected & sufficient sample after operators analysis. Negotiation with Geoscience Australia will be done.
Fluid hydrocarbon samples (in an API approved safety container)	No	Representative Sample			Twelve months after completion of the well.	If collected & sufficient remaining sample after operators analysis. Negotiation with Geoscience Australia will be done.
Sidewall core material, if recovered	Yes	No			Eighteen months after completion of the well.	
Palynological slides and residues palaeontological material Petrological slides	Yes	No			Eighteen months after completion of the well.	

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**3.6. Geological and geochemical surveys****3.6.1. General Information (Regulation 12)**

The following information is applicable to the activity:

a	i	Location of the activity.	See Survey Application.
	ii	Period of the activity.	See Survey Application.
b		Persons undertaking activity.	See Survey Application.
c	i	The techniques and equipment used to collect the data.	See Survey Application
	ii	The techniques and equipment used to process the data.	See Survey Application.
	iii	The techniques and equipment used to interpret the data.	See Survey Application.
d		Progress reports.	Reporting requirements Weekly— see below.
e		Data acquisition report detailing the operations carried out as part of the activity.	Data acquisition report.
f		If processing is undertaken as part of the activity - a data processing report.	Data processing report.
g		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Interpretation report Maps.

**3.6.2. Written Information and Documentation (Regulation 15)**

The following written information and documents about each survey will be prepared as part of the activity:

The information will include, if appropriate/applicable:

	Description
a	Field and processed digital survey data.
b	A report describing the acquisition and processing of the data, as appropriate/applicable.
c	Interpretation report

**3.6.3. Reporting (Schedule 1, Part 2, item 202)**

The following information will be submitted as soon as practicable after the end of the week to which the report relates

Report on on survey operations during the week
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3.6.4. Data Submission and Reporting Tables

Geological and geochemical surveys data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth			
Data Review Reports	CD-ROM 1 copy	CD-ROM 1 copy	PDF	Six months after completion of study year	
Digital images of interpretation maps	CD-ROM 1 copy	CD-ROM 1 copy	PDF or TIF	Six months after completion of study year	

Studies done on cores and cuttings

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth			
Reports and data from investigation, analysis, etc of cuttings or cores	CD-ROM 1 copy	CD-ROM 1 copy	Report: PDF Data: ASCII	Six months after borrowing of material	
Annual report for exported samples for analyses	CD-ROM 1 copy	CD-ROM 1 copy	Report: PDF Data: ASCII	Annually from date of export	Required if cuttings and cores are retained overseas for more than twelve months after the approval from the Designated Authority.

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**3.7. Studies and Data Reviews****3.7.1. General Information (Regulation 12)**

The following information is applicable to the activity:

a	i	Purpose of the activity.	See Activity Description.
	ii	Location & period of the activity.	See Activity Description.
b		Persons undertaking activity.	See Activity Description.
c	i	The techniques and equipment used on any interpretation of the data.	See Activity Description.
d		Progress reports.	Reporting requirements At project closeout – see below.
e		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Interpretation report Maps.

**3.7.2. Written Information and Documentation (Regulation 15)**

The following written information and documents will be prepared as part of the activity:

The information will include, if appropriate/applicable:

	Description
a	Digital data.
b	A report describing the studies, and or data reviews.
c	Interpretation report

**3.7.3. Reporting (Schedule 1, Part 2, item 206)**

Will be submitted as soon as practicable after the finalisation of the project:

Report on project at project closeout
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3.7.4. Data Submission and Reporting Tables

Studies and Data Reviews data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth+			
Review reports	CD ROM 1 copy	CD ROM 1 copy	PDF	Six months after completion of the study year	
Digital images of interpretation maps	CD ROM 1 copy	CD ROM 1 copy	PDF or TIF	Six months after completion of the study year	

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**3.8. Reports to be submitted (as appropriate, based on type of licence or permit)****3.8.1. Annual Report – Exploration Permit (Schedule 1, Part 2, item 205)**

Two copies of the report will be submitted to the Designated Authority not later than one month after the period to which the report covers.

a	Description of exploration carried out.
b	Conclusion derived from the exploration.
c	List of reports that have been submitted during the year.
d	Outline of planned operations for the next year.
e	If appropriate/applicable – updated interpretation maps.
f	Summary of exploration expenditure for the year.

**3.8.2. Quarterly Reports – Exploration Permits (Schedule 1, Part 2, item 204)**

The report covers exploration activities for the three month period after the day on which the Permit was awarded, and will be submitted not later than one month after the period to which the report covers.

No report will be submitted for the fourth quarter as relevant information will be included in the annual report as per Schedule 1, Part 2, item 205.

Two copies of the report will be given to the Designated Authority.

a	Description of exploration carried out.
b	Outline of geological & geophysical interpretations made as a result of exploration, including any reprocessing or re-interpretation of basic data.
c	An estimate of exploration expenditure for the quarter.
d	Any other information required by the accepted DMP.
e	List of reports that have been submitted during the quarter.

**3.8.3. Reports - Retention Licence (Schedule 1, Part 2, item 205)**

Reports covering retention licence activities, as may be required under the terms of the retention licence, will be submitted to the Designated Authority within the timeframe(s) detailed under the conditions of the retention licence.

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**3.8.4. Monthly reports – Production Licence (Schedule 1, Part 2, item 203)**

Two copies will be submitted to the Designated Authority by 20<sup>th</sup> of month after the month to which the report relates. Monthly Production Reports will include (if applicable):

a		For each well:
	i	Identification name and number
	ii	Summary of all work performed on each well in the licence area during the previous month
	iii	Results of production tests, including choke sizes used and tubing and separation pressures observed during the test
	iv	Status at the end of the month
	v	Number of days of production
	vi	Cumulative quantities of liquid and gaseous petroleum and water produced or injected as at the end of the month
b		Total estimated quantities of liquid and gaseous petroleum and water produced or injected during the month
c		The total quantities of:
	i	Liquid & gaseous petroleum and water that have been produced
	ii	Liquid and gaseous petroleum that have been used
	iii	Gaseous petroleum that has been flared or vented
	iv	Liquid and gaseous petroleum and water that have been injected
	v	Liquid petroleum that has been stored
d		The cumulative quantities of liquid and gaseous petroleum and water that have been produced or injected as at the end of the month

## 3.8.5. Data Submission and Reporting Tables

## Activity Reports data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth+			
Annual Report, Exploration Permit	CD ROM 1 copy	CD ROM 1 copy	PDF	Within one month of completion of title year to which the report relates.	Image files included in report PDF
Quarterly Report, Exploration Permit	CD ROM 1 copy	CD ROM 1 copy	PDF	Within one month of completion the quarter to which the report relates.	Image files included in report PDF
Monthly Report, Production Licence	1 copy, via e-mail attachment	1 copy, via e-mail attachment	PDF	By the close of business business (1730hrs local time) on the 20th day of the month following the month to which the report relates.	Image files included in report PDF Hardcopy report will continue until end of first quarter 2005, whilst establishing processes for PDF reporting.
Monthly Wireline and Workover Activity Report	1 copy, via e-mail attachment	1 copy, via e-mail attachment	PDF	By the close of business business (1730hrs local time) on the 20th day of the month following the month to which the report relates.	
Weekly geological or geophysical field survey progress report	1 copy, via e-mail attachment	-	PDF	Within one month of completion the quarter to which the report relates.	Image files included in report PDF
Any required reports relating to Retention Licences	CD ROM 1 copy	CD ROM 1 copy	PDF	As defined in terms of the retention lease.	Image files included in report PDF
Daily Drilling Operations Report	1 copy	1 copy	e-mailed MS-Word or text documents containing plain ASCII text, or PDF documents	By midday (1200hrs local time) on the day following the day to which the report relates.	

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