

0224

**Data Management Plan**

<b>Permits</b>	<b> Holders</b>
<b>VIC/P45</b>	<b>Exoil Limited</b> (*company responsible for data)  <b>Moby Oil &amp; Gas Ltd</b>
<b>VIC/P53</b>	<b>Exoil Limited</b> (*company responsible for data)  <b>Moby Oil &amp; Gas Ltd</b>  <b>Cue Petroleum Pty Ltd</b>
<b>VIC/P61</b>	<b>Exoil Limited</b> (*company responsible for data)  <b>Gascorp Australia Ltd</b>  <b>Otway Oil &amp; Gas Pty Ltd</b>  <b>Southern Energy Pty Ltd</b>

**To: Designated Authority**

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VIC/P45: Signed for and on behalf of  
**Exoil Limited**  
**Moby Oil & Gas Ltd,**  
**By Exoil Limited**

VIC/P53: Signed for and on behalf of  
**Exoil Limited**  
**Moby Oil & Gas Ltd,**  
**Cue Petroleum Pty Ltd**  
**By Exoil Limited**

VIC/P61: Signed for and on behalf of  
**Exoil Limited**  
**Gascorp Australia Ltd,**  
**Otway Oil & Gas Pty Ltd,**  
**Southern Energy Pty Ltd**  
**By Exoil Limited**

Per:



Mark Muzzin  
General Manager  
Exoil Limited

Date: 21/1/2005

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

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

The following general location information is applicable to Title **VIC/P 45, VIC/P53, VIC/P61 (Regulation 12)**:

**TITLE:** **VIC/P 45**  
**AREA:** 900 km<sup>2</sup> approximately, 13 Graticular Blocks  
**STATE:** Victoria  
**BASIN:** Gippsland Basin  
**AWARDED:** 16 May 2000  
**EXPIRY DATE:** 15 May 2008  
**OPERATOR:** Exoil Limited. ("**EXOIL**")  
ABN 40 005 572 798  
Level 25,  
500 Collins St  
Melbourne VIC 3000  
**ACT:** *Petroleum (Submerged Lands) Act 1967 (Cth)*

**TITLE:** **VIC/P 53**  
**AREA:** 770 km<sup>2</sup> approximately, 11 Graticular Blocks  
**STATE:** Victoria  
**BASIN:** Gippsland Basin  
**AWARDED:** 16 October 2002  
**EXPIRY DATE:** 15 October 2009  
**OPERATOR:** Exoil Limited. ("**EXOIL**")  
ABN 40 005 572 798  
Level 25,  
500 Collins St  
Melbourne VIC 3000  
**ACT:** *Petroleum (Submerged Lands) Act 1967 (Cth)*

**TITLE:** **VIC/P 61**  
**AREA:** 1960 km<sup>2</sup> approximately, 30 Graticular Blocks  
**STATE:** Victoria  
**BASIN:** Otway Basin  
**AWARDED:** To Be Awarded  
**EXPIRY DATE:**  
**OPERATOR:** Exoil Limited. ("**EXOIL**")  
ABN 40 005 0572 798  
Level 25,  
500 Collins St  
Melbourne VIC 3000  
**ACT:** *Petroleum (Submerged Lands) Act 1967 (Cth)*

## 2. Specific Requirements of DMP per Schedule 1

The Operator acknowledges that the following statements found within Schedule 1, Part 1 apply to this Data Management Plan and will follow the stated "Regulatory Provisions" and their "Application to this DMP".

Item	Regulatory Provisions	Application to this DMP
101	<p>Description of:</p> <ul style="list-style-type: none"> <li>a. each activity to which DMP relates;</li> <li>b. each location where activity will be carried out.</li> </ul>	<p>This DMP is designed to be a "cradle to grave" plan for all foreseeable activities to be undertaken within the title areas. 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, as it arises. Should a change in title type or Guidelines occur, the company shall review this DMP and resubmit a DMP for approval.</p>
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	<p>Explanation of:</p> <ul style="list-style-type: none"> <li>a. data to be given to the Designated Authority without request by the Designated Authority;</li> <li>b. information to be kept.</li> </ul>	<ul style="list-style-type: none"> <li>a. Data to be submitted – refer to body of document, as pertinent to the associated activity.</li> <li>b. Data withheld – refer to body of document, as pertinent to the associated activity.</li> </ul>
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	<p>Explanation of how media and formats in item 104:</p> <ul style="list-style-type: none"> <li>a. are appropriate for type &amp; volume of data collected;</li> <li>b. comply with Designated Authority requirements;</li> <li>c. comply with good industry practice.</li> </ul>	<p>Data medias and formats are described within the body of the document and largely comply with the P(SL) A Guidelines for Data Submission version 5 (<b>the Guidelines</b>) in respect of the <i>Petroleum (Submerged Lands) (Data Management) Regulations 2004 (Cth)</i> (<b>the Regulations</b>). Variation from the Guidelines follows more recent advice from the DA.</p>
106	Undertake to allow access to data that is publicly available and explain how access will be allowed	The operator acknowledges that, upon notification by the Designated Authority, it will allow reasonable access to any publicly available information or samples under its control. The company will submit relevant information or samples in line with the DMP, which will allow a reasonable time period for the DA or GA to prepare for public availability.
107	Describe arrangements that ensure information is preserved according to good archive practice.	Data preservation will be ensured via contracts covering data services in addition to in-house data management practice.

<b>2. Specific Requirements of DMP per Schedule 1 (continued)</b>		
<b>Item</b>	<b>Regulatory Provisions</b>	<b>Application to this DMP</b>
108	Issue a statement that reports & information will be given according to: a. the timetable outlined in Part 2 of the Schedule; or b. a timetable proposed in the DMP.	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.
109	Summary of: a. data management performance objectives against which performance will be measured; & b. measurement criteria that define the objectives.	Data and reports will be submitted on time and in accordance with Guidelines unless following more recent advice from the DA (see item 105). Archival and Environment conditions will comply with the Guidelines unless following more recent advice from the DA (see item 105).
110	Explain how the measurement criteria will confirm that the performance objectives have been met.	Submissions timetable will be monitored in-house. Storage handling conditions will be controlled via contracts for data services.
111	Summary of arrangements for: a. secure storage of documents and records at a nominated address b. maintenance of documents and records in a way that makes retrieval of documents etc practicable.	Information and reports will be stored at the nominated address in a secure data storage manner prior to being submitted to the Designated Authority as per timetable in DMP. The storage of data will largely meet the good digital archival principles as set out in the "Guidelines for reporting and submission of petroleum data" and recommended by the Australian Archives.
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.

**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	Report/s 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 Media to comply with Guidelines	Data due date	Remarks
	State/Territory	Commonwealth+			
<b>Field Data</b> Navigation data (offshore) Includes final processed navigation, elevation and bathymetry data.	One copy only to be submitted to State DA	State to forward copy to GA	UKOOA	12 months after completion of acquisition	P1/90, SPS or subsequent format with header information of navigation/ shotpoint location data including elevations or bathymetry. Coordinates must be provided for source, receiver if applicable, and CDP locations). Data must include latitude and longitude. Header data must include geodetic datum, spheroid, projection and clearly stated transformation parameters.
Seismic field data	Transfer Proposal (TP) to be obtained from State DA	To be forwarded to GA after approval of TP by State	SEG	12 months after completion of acquisition	
Seismic support data	Transfer Proposal (TP) to be obtained from State DA	To be forwarded to GA after approval of TP by State	PDF	12 months after completion of acquisition	Observer's logs etc.
Itemised field tape listing	Transfer Proposal (TP) to be obtained from State DA	State to forward copy to GA	ASCII	12 months after completion of acquisition	Showing tape number, survey name, line number, shotpoint range & data type.
<b>Processed Data</b> Raw and final stacked data – if generated as part of processing sequence	One copy only to be submitted to State DA	State to forward copy to GA	SEGY	12 months after completion of acquisition	If generated as part of the processing sequence. Including a fully annotated EBDCIC header.
Raw and final migrated data including PSDM - if generated	One copy only to be submitted to State DA	State to forward copy to GA	SEGY	12 months after completion of acquisition	Including a fully annotated EBDCIC header. For PSDM include all final stacked panels.
Image Files for seismic sections	One copy only to be submitted to State DA	Not required	CGM+	12 months after completion of acquisition	Including fully detailed side panel showing processing sequence, acquisition details, and stacking velocity boxes, SP/CDP annotations, and any processing/field statics graphs (if available).
Shotpoint to CDP relationship	One copy only to be submitted to State DA	State to forward copy to GA	ASCII	12 months after completion of acquisition	Sufficient SP/CDP data for workstation interpretation. SOL/EOL relationships & listing of CDP/SP pairs for each line.
Itemised process tape listing	One copy only to be submitted to State DA	State to forward copy to GA	ASCII	12 months after completion of acquisition	Showing tape number, survey name, line number, shotpoint range & data type.
Velocity data	One copy only to be submitted to State DA	State to forward copy to GA	ASCII	12 months after completion of acquisition	Including line number, shotpoint, time vs RMS pairs for both stacked & migrated velocities (if available).
<b>Final Reports</b> Final report (Operations and	One copy	One copy	PDF	12 months after	Location map included.

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Navigation)	One copy	One copy	PDF	completion of acquisition 12 months after completion of acquisition	The processing report will include a full tape listing and an example hardcopy printout of the SEGY headers.
Final processing report	One copy	One copy	PDF	12 months after completion of acquisition	Not applicable for non-exclusive commercial sales. Will include TWT structure maps at key horizons and representative sections showing seismic horizon picks.
Final interpretation report	One copy	One copy	PDF &/or TIF	18 months after completion of acquisition	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks, and prospects and leads maps.
Digital images of interpretation maps	One copy	One copy	PDF &/or TIF	18 months after completion of acquisition	

+ Only required for areas under Commonwealth jurisdiction

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**3.2. 3D Seismic Acquisition & Processing**

**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	Report/s 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

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 +			
<b>Field Data</b> Navigation data including field processed data. Includes elevation and bathymetry data.	One copy only to be submitted to State DA	State to forward copy to GA	UKOOA	18 months after completion of acquisition	To be provided in P1/90 including elevation and bathymetry data. All associated data sufficient to reprocess seismic data including shot point and receiver coordinates. To be submitted on high-density media.
Seismic field data	Transfer Proposal (TP) to be obtained from State DA	To be forwarded to GA after approval of TP by State	SEG	18 months after completion of acquisition	To be submitted on high-density media.
Seismic support data	Transfer Proposal (TP) to be obtained from State DA	To be forwarded to GA after approval of TP by State	PDF	18 months after completion of acquisition	Must include observer's logs etc.
Itemised field tape listing	Transfer Proposal (TP) to be obtained from State DA	To be forwarded to GA after approval of TP by State	ASCII	18 months after completion of acquisition	Showing tape number, survey name, line number, shotpoint range & data type
<b>Processed Data</b>					
Raw stacked data – if generated as part of processing sequence	One copy only to be submitted to State DA	State to forward copy to GA	SEGY	18 months after completion of acquisition	If generated as part of the processing sequence. Including a fully annotated EBCDIC header.
Raw and final migrated data including PDSM / PSTM - if generated	One copy only to be submitted to State DA	State to forward copy to GA	SEGY	18 months after completion of acquisition	Including a fully annotated EBCDIC header
AVO- if generated as part of processing sequence	1 copy	1 copy	SEGY	18 months after completion of acquisition	Includes fully annotated EBCDIC header.
Final processed grid (bin) coordinates	One copy only to be submitted to State DA	State to forward copy to GA	UKOOA	18 months after completion of acquisition	To be completed using UKOOA format etc.
Polygonal position data	One copy only to be submitted to State DA	State to forward copy to GA	ASCII	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	One copy only to be submitted to State DA	State to forward copy to GA	ASCII	18 months after completion of acquisition	Including bin number, time vs RMS pairs for stacking and migrated velocities (if applicable).

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Itemised process tape listing	One copy only to be submitted to State DA	State to forward copy to GA	ASCII	18 months after completion of acquisition	Showing tape number, survey name, line number & data type
<b>Final Reports</b>					
Final report (Operations and Navigation)	One copy	One copy	PDF	18 months after completion of acquisition	Location map included. Operations and Navigation Reports can be supplied as separate volumes.
Final processing report	One copy	One copy	PDF	18 months after completion of acquisition	Will include a full tape listing and an example hardcopy printout of the SEGY headers. (include 3D rotation and co-ordinates of survey).
Final interpretation report	One copy	One copy	PDF &/or TIF	18 months after completion of acquisition	These include TWT structure maps at key horizons and representative section showing seismic horizon picks.
Digital images of interpretation maps.	One copy	One copy	PDF &/or TIF	18 months after completion of acquisition	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks, and prospects and leads maps.

+ Only required for areas under Commonwealth jurisdiction

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**3.3. 2D & 3D Seismic Reprocessing**

**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 reprocessing of the data
b	Interpretation report

**3.3.3. Reporting (Schedule 1, Part 3, item 304)**

Will be submitted within 12 months of completion of the project:

Report on project at project closeout.

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	One copy only to be submitted to State DA	State to forward copy to GA	SEGY	12 months after completion of reprocessing	Includes a fully annotated EBCDIC header.
Final filtered and scaled stack processed data if produced in processing sequence (2D)	One copy only to be submitted to State DA	State to forward copy to GA	SEGY	12 months after completion of reprocessing	Includes a fully annotated EBCDIC header.
Raw and final migrated data	One copy only to be submitted to State DA	State to forward copy to GA	SEGY	12 months after completion of reprocessing	Includes a fully annotated EBCDIC header.
Itemised process tape listing	One copy only to be submitted to State DA	State to forward copy to GA	ASCII	12 months after completion of reprocessing	Showing tape number, survey name, line number, shotpoint range, data type and what original tapes are on the copy tapes.
Reprocessed stacked or migrated sections (2D only)	One copy only to be submitted to State DA	Not required	CGM+	12 months after completion of reprocessing	Including top label (velocities, statics, SP, CDP) and side label (processing, display parameters) (if available).
Velocity data	One copy only to be submitted to State DA	State to forward copy to GA	ASCII	12 months after completion of reprocessing	Include line number, shotpoint, time versus RMS pairs for both stacked and migrated velocities (if available).
<b>Final Reports</b>					
Final reprocessing report	One copy	One copy	PDF	12 months after completion of reprocessing	The processing report will include a full tape listing and an example hardcopy printout of the SEGY headers.
Final interpretation report	One copy	One copy	PDF &/or TIF	18 months after completion of reprocessing	
Digital images of interpretation maps	One copy	One copy	PDF &/or TIF	18 months after completion of reprocessing	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks, and prospects and leads maps.

+ Only required for areas under Commonwealth jurisdiction

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

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth+			
Field tape transcription log	Transfer Proposal (TP) to be obtained from State DA	To be forwarded to GA after approval of TP by State	ASCII	12 months after completion of reprocessing	Showing the original tape number, new tape number, survey name, line number, shotpoint range, data type, transcription parameters
Seismic field tape copies	Transfer Proposal (TP) to be obtained from	To be forwarded to GA after approval of TP by State	SEG	12 months after completion of reprocessing	

	State DA		
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+ Only required for areas under Commonwealth jurisdiction

**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)	One copy only to be submitted to State DA	State to forward copy to GA	UKOOA	12 months after completion of reprocessing	To be completed using UKOOA format etc.

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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 for field data At project closeout – 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, & Schedule 1, Part 3, item 304)**

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

A report will be submitted within 12 months of completion of the project:

Final survey report on project at project closeout



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 supply archive address	ASEG-GDF	6 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.
Field gravity located data	TP *	DA to supply archive address	ASCII	6 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 supply archive address	Digital	6 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 supply archive address	Digital	6 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 supply archive address	ASEG-GDF	6 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	6 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, Eotvos 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 recorded 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	6 months after completion of the survey	
Final report – Basic data including Operations Navigation Processing	Yes	Yes	PDF	6 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	6 months after completion of the survey	
Digital images of interpretation maps	Yes	Yes	PDF &/or TIF	6 months after completion of the survey	Any maps included in the Interpretation Report, including prospects and leads maps

+ 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**

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**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 Well Program.
	ii	Period of the activity.	See Well Program.
b		Persons undertaking activity.	See Well Program.
c	i	The techniques and equipment used to collect the data.	See Well Program.
	ii	The techniques and equipment used to process the data.	See Well Program.
	iii	The techniques and equipment used to interpret the data.	See Well Program.
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 display
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 (if undertaken)
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 201)**

One email 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 of well
b	Drilled depth
c	Work carried out
d	Lithology of formations penetrated
e	Any indications of petroleum
f	Results of surveys made in the well bore
g	Any leak off test summary
h	Hole geometry
i	Summary of material usage
j	Estimated daily and cumulative well costs
k	Any Rig Inspection report will be included in at least one Daily Drill report per week.

3.5.4. Data Submission and Reporting Tables

Well data plan (Documentary information)

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth+			
Edited field and processed data for all wireline logs (except coring logs) – if undertaken	CD ROM or DVD or 3590 or 8 mm tape	State to forward to GA	LIS, LISTIF, DLIS, LAS or ASCII	6 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 – if undertaken	CD ROM or DVD or 3590 or 8 mm tape	State to forward to GA	LIS, LISTIF, DLIS, LAS or ASCII	6 months after completion of the well	With a verification listing of the data supplied. The data shall include full header information. ASCII data for deviation survey only.
Mudlogging data	CD ROM or DVD or 3590	State to forward to GA	LAS or ASCII/EPS / TIF or PDF	6 months after completion of the well	With a header giving field names and units of measure
Processed data for velocity surveys (raw, processed, check-out & time-depth analysis) – if undertaken	CD ROM or DVD or 3590	State to forward to GA	DLIS, SEG or ASCII	6 months after completion of the well.	With a verification header file
Wireline log displays – if undertaken	CD ROM or DVD	CD ROM or DVD	PDF, PDS or TIF	6 months after completion of the well	
MWD or LWD log displays – if undertaken	CD ROM or DVD	CD ROM or DVD	PDF, PDS or TIF	6 months after completion of the well	
Mudlog	CD ROM or DVD	CD ROM or DVD	PDF or TIF	6 months after completion of the well.	Image files included in report PDF may also be submitted as separate TIF files.
Well completion report	CD ROM or DVD	CD ROM or DVD	PDF	12 months after completion of the well.	Included in the derived data volume of the well completion report.
Basic data	CD ROM or DVD	CD ROM or DVD	PDF	6 months after completion of the well.	As a tab delimited ASCII file with metadata included. Attached to well completion report.
Well index sheet	CD ROM or DVD	CD ROM or DVD	ASCII or PDF	6 months after completion of the well.	
Digital petrophysical, geochemical or other analyses – if undertaken	CD ROM or DVD or 8 mm tape	CD ROM or DVD or 8 mm tape	PDF	6 months after completion of the well.	Image files included in report PDF may also be submitted as separate TIF files.
Velocity log displays – if produced	CD ROM or DVD	CD ROM or DVD	PDF	6 months after completion of the well.	If prepared, Provide minimum 300 dpi image in 24 bit colour.
Well completion report	CD ROM or DVD	CD ROM or DVD	PDF	Twelve months after completion of the well.	
Derived (interpretive) data	CD ROM or DVD	CD ROM or DVD	TIF, JPG or PDF	6 months after completion of the well or after receipt from external contractor	
Core, SWC photography – if produced	CD ROM or DVD	CD ROM or DVD	TIF or PDF	6 months after completion of the well.	
Composite well log	CD ROM or DVD	CD ROM or DVD	TIF or PDF	6 months after completion of the well.	

+ Only required for areas under Commonwealth jurisdiction

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Well data plan (Petroleum Mining Samples) - continued

Data to be submitted	Copies required by		Data due date	Remarks
	States/Territory	Commonwealth+		
Gaseous hydrocarbon samples (in an API approved safety container)	No	Yes	6 months after completion of the well.	If collected & sufficient sample after operators analysis. Negotiation with Geoscience Australia will be undertaken.
Fluid hydrocarbon samples (in an API approved safety container)	No	Yes	6 months after completion of the well. On completion of test.	If collected from wireline drillstem or production tests & sufficient sample after operators analysis. Negotiation with Geoscience Australia will be undertaken.
Sidewall core material, if recovered	Yes	No	18 months after completion of the well.	If prepared.
Palynological slides and residues	Yes	No	18 months after completion of the well.	
Palaeontological material	One set	One set	6 months after completion of the well.	A minimum of 100g dry weight (if available) and thoroughly cleaned, dried and packaged with indelible printing of Well name, depth ranges.
Petrological slides (when produced)				
Ditch cuttings				
Full hole cores, if cut	¾ of the core	¼ of the core	6 months after completion of the well. ¼ of the core six months after completion of the well for Geoscience Australia. Remaining ¾ eighteen months after completion of the well.	Operator to retain ¼ of the core until eighteen months after completion of the well, then forward to the local Designated Authority, with the understanding that access to sample the core by the DA will be unfettered, until the core is open file.

+ Only required for areas under Commonwealth jurisdiction

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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 for field data At project closeout – 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, & Schedule 1, Part 3, item 304)**

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

A report will be submitted within 12 months of completion of the project:

Final survey report on project at project closeout

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	One copy	One copy	PDF	6 months after completion of study year	
Digital images of interpretation maps	One copy	One copy	TIF	6 months after completion of study year	

+ Only required for areas under Commonwealth jurisdiction

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 including PVT reports, Petrophysical reports, biostratigraphic reports – if relevant analysis undertaken. Annual report for exported samples for analyses	One copy	One copy	Report: PDF Data: ASCII	6 months after borrowing of material	
	One copy	One 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.

+ Only required for areas under Commonwealth jurisdiction

**3.7. Studies and Data Reviews as meeting Title Work Commitment**

**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 to interpret the data.	See Activity Description.
d		Progress reports.	Reporting requirements At project closeout – see below.

**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.

**3.7.3. Reporting (Schedule 1, Part 3, item 304)**

Will be submitted within 12 months of completion of the project:

Final survey 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 or DVD 1 copy		PDF	6 months after completion of the study year	May be included within any Annual or Quarterly Report Submissions.
Digital images of interpretation maps	CD ROM or DVD 1 copy		PDF or TIF	6 months after completion of the study year	Including prospects and leads maps, if produced. May be included within any Annual or Quarterly Report Submissions.

+ Only required for areas under Commonwealth jurisdiction

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**3.8. Reports to be submitted (as appropriate, based on type of title)**

**3.8.1. Annual Report – Exploration Permit (Schedule 1, Part 2, item 205)**

The report will be submitted to the Designated Authority not later than one month after the period to which the report covers by email or CD ROM. The report will be more comprehensive than Quarterly Reports and make particular reference to work program commitments for the permit year.

a	Description of exploration carried out. (Operations including office studies)
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. (Seismic & potential field data will be displayed at an appropriate scale)
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 with particular reference to fulfilling the work commitment for the permit year, after the day on which the Title was awarded, and will be submitted not later than one month after the period to which the report covers by email or CD ROM.

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

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 Designated Authority (The Director, Petroleum Operations Division).
e	List of reports that have been submitted during the quarter.