

Data Management Plan



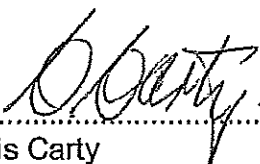
| | |
|------------------|--|
| Permit | VIC/P63 |
| Holder(s) | Great Artesian Oil and Gas – 100% |

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 may be varied or revised, and resubmitted, as appropriate, and as agreed to with the Designated Authority. 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: 29th March 2009

Signed for and on behalf of
Great Artesian Oil and Gas

Per:


.....
Chris Carty
Chief Operating Officer
Drillsearch Energy Limited

Date: 12/1/2009

Version: A

Designated Authority acceptance:

CONTENTS

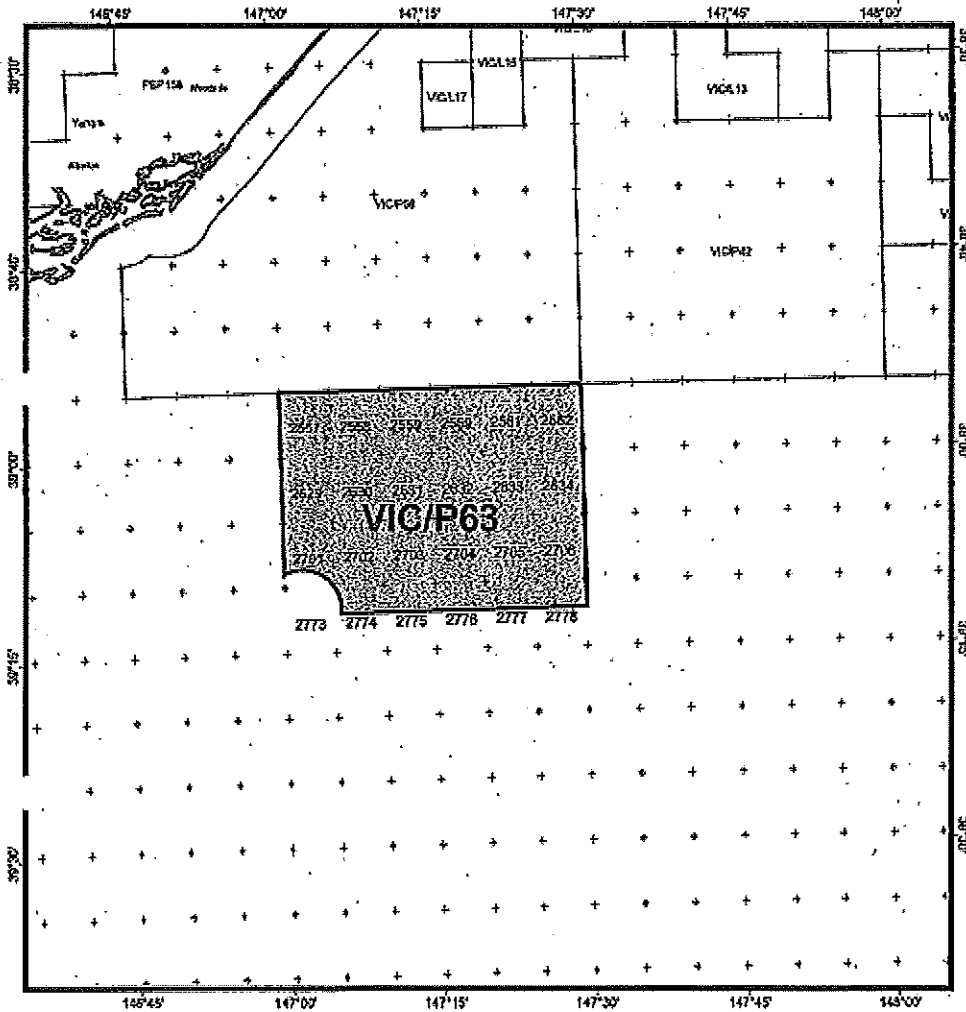
| | | |
|--------|--|----|
| 1. | Location/Description of Title/Activity area | 3 |
| 2. | Specific Requirements of DMP per Schedule 1 | 4 |
| 3. | Activity | 7 |
| 3.1. | 2D Seismic Acquisition & Processing | 7 |
| 3.1.1. | General Information (Regulation 12)..... | 7 |
| 3.1.2. | Written Information and Documentation (Regulation 14) | 7 |
| 3.1.3. | Reporting - Weekly Progress reports (Schedule 1, Part 2, item 202)..... | 7 |
| 3.1.4. | Data Submission and Reporting Tables..... | 8 |
| 3.2. | 3D Seismic Acquisition & Processing | 9 |
| 3.2.1. | General Information (Regulation 12)..... | 9 |
| 3.2.2. | Written Information and Documentation (Regulation 14) | 9 |
| 3.2.3. | Reporting – Weekly Progress reports (Schedule 1, Part 2, item 202)..... | 9 |
| 3.2.4. | Data Submission and Reporting Tables..... | 10 |
| 3.3. | 2D & 3D Seismic Reprocessing..... | 12 |
| 3.3.1. | General Information (Regulation 12)..... | 12 |
| 3.3.2. | Written Information and Documentation (Regulation 14) | 12 |
| 3.3.3. | Reporting (Schedule 1, Part 2, item 202) | 12 |
| 3.3.4. | Data Submission and Reporting Tables..... | 13 |
| 3.4. | Gravity, Magnetic and Other Survey Data | 14 |
| 3.4.1. | General Information (Regulation 12)..... | 14 |
| 3.4.2. | Written Information and Documentation (Regulation 14) | 14 |
| 3.4.3. | Reporting (Schedule 1, Part 2, item 202) | 14 |
| 3.4.4. | Data Submission and Reporting Tables..... | 15 |
| 3.5. | Wells | 16 |
| 3.5.1. | General Information (Regulation 12)..... | 16 |
| 3.5.2. | Written Information and Documentation (Regulation 13) | 16 |
| 3.5.3. | Reporting – Daily Drill reports (Schedule 1, Part 2, item 206)..... | 17 |
| 3.5.4. | Data Submission and Reporting Tables..... | 18 |
| 3.6. | Geological and geochemical surveys | 20 |
| 3.6.1. | General Information (Regulation 12)..... | 20 |
| 3.6.2. | Written Information and Documentation (Regulation 15) | 20 |
| 3.6.3. | Reporting (Schedule 1, Part 2, item 202) | 20 |
| 3.6.4. | Data Submission and Reporting Tables..... | 21 |
| 3.7. | Studies and Data Reviews..... | 22 |
| 3.7.1. | General Information (Regulation 12)..... | 22 |
| 3.7.2. | Written Information and Documentation (Regulation 15) | 22 |
| 3.7.3. | Reporting (Schedule 1, Part 2, item 206) | 22 |
| 3.7.4. | Data Submission and Reporting Tables..... | 23 |
| 3.8. | Reports to be submitted (as appropriate, based on type of licence or permit)..... | 24 |
| 3.8.1. | Annual Report – Exploration Permit (Schedule 1, Part 2, item 205)..... | 24 |
| 3.8.2. | Quarterly Reports – Exploration Permits (Schedule 1, Part 2, item 204) | 24 |
| 3.8.3. | Reports - Retention Licence (Schedule 1, Part 2, item 205)..... | 24 |
| 3.8.4. | Monthly reports – Production Licence (Schedule 1, Part 2, item 203) | 25 |
| 3.8.5. | Data Submission and Reporting Tables..... | 26 |

1. Location/Description of Title/Activity area




The following general location information is applicable to **VIC/P63** (Regulation 12):

| | |
|----------------------|--|
| AREA: | VIC/P63: |
| STATE: | Victoria |
| BASIN: | Gippsland Basin |
| AWARDED: | VIC/P63: 29 March 2007 |
| EXPIRY DATE: | VIC/P63: 28 March 2013 |
| OPERATOR: | Great Artesian Oil and Gas ACN 078 607 682 Level 8, 16 Spring Street, Sydney, NSW 2000 |
| ACT: | <i>Petroleum (Submerged Lands) Act 1967 (Cth)</i> |
| LOCATION MAP: | <i>Overleaf</i> |

Petroleum Exploration Permit VIC/P63 PETROLEUM (SUBMERGED LANDS) ACT 1967 (Cth)



LEGEND

-  Area Granted
-  Other Licences
-  Victoria Boundary



GDA94 Datum
0 5 10 Kilometers

Produced 27/02/2007

2. Specific Requirements of DMP per Schedule 1

| Item | Regulatory Provisions | Application to this DMP |
|------|--|---|
| 101 | Description of: <ul style="list-style-type: none"> 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 may be varied or revised, and resubmitted, as appropriate, and as agreed to with the Designated Authority. 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: <ul style="list-style-type: none"> a. data to be given to the Designated Authority without request by the Designated Authority; b. information to be kept. | <ul style="list-style-type: none"> 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 within the body of the document, as pertinent to the associated activity. |
| 105 | Explanation of how media and formats in item 104: <ul style="list-style-type: none"> 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 (the Guidelines) in respect of the <i>Petroleum (Submerged Lands) (Data Management) Regulations 2004 (Cth)</i> (the Regulations). |
| 106 | Undertake to allow access to data that is publicly available and explain how access will be allowed | Drillsearch Energy Ltd 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 to be held by seismic acquisition and processing contractor until lodgement with DA, and in accordance with GSD. |

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

| Item | Regulatory Provisions | Application to this DMP |
|------|--|--|
| 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 (see item 105). Archival and Environment conditions will comply with the Guidelines (see item 105). |
| 110 | Explain how the measurement criteria will confirm that the performance objectives have been met. | Submissions timetable will be monitored and managed in-house and data will be submitted in required format and on time |
| 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. | Prior to being submitted to the Designated Authority as per timetables below, information and reports will be stored in a secure data storage room at: Drillsearch Energy Ltd Lvl 8, 16 Spring Street Sydney NSW 2000 The storage of data will meet the good digital archival principles as set out in the GSD |

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

| | | |
|-----|--|--|
| 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 | 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 |
| Raw Navigational data | Transfer Proposal (TP) to be forwarded by DA | To be forwarded to GA after approval of TP by State | UKOOA | 18 Months after completion of acquisition of survey | P2/94 or subsequent format |
| 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 | Observer's logs |
| 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, including near /mid /far sub-stacks, if generated | 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, including PSDM / PSTM if generated, and including near /mid /far sub-stacks, if generated | 1 copy | DA to forward to relevant archive | SEGY | 18 Months after completion of acquisition of survey | Including EBCDIC header |
| Shotpoint to CDP relationship | 1 copy | DA to forward to relevant archive | ASCII | 18 Months after completion of acquisition of survey | SOLVEOL 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 | For selected key representative surfaces / horizons over entire survey area |
| Final report – Derived data / Interpretation | 1 copy | 1 copy | PDF | 18 Months after completion of acquisition of survey | <ul style="list-style-type: none"> • TWT & Depth Map • Velocity Map • Type Seismic line with interpretation marked 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

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 |
|---|

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 |
| Raw Navigation data | Transfer Proposal (TP) to be forwarded by DA | To be forwarded to GA after approval of TP by State | UKOOA | 18 Months after completion of acquisition of survey | P2/94 or subsequent format |
| Seismic field data | 1 copy* | DA to supply archive address | SEG | 18 Months after completion of acquisition of survey | |
| Seismic support data | Include details on field tape TP * | - | PDF | 18 Months after completion of acquisition of survey | Observer's logs |
| Itemized field tape listing | Yes | Yes | ASCII | 18 Months after completion of acquisition of survey | Showing tape number, survey name, line number, hotspot range, data type |
| Raw stacked data including near /mid /far sub-stacks, if generated | 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, including PSDM / PSTM if generated, and including near /mid /far sub-stacks, if generated | 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"> TWT & Depth Map Velocity Map Type Seismic line with interpretation marked 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

3.3.1. General Information (Regulation 12)

The following information is applicable to the activity:

| | | | |
|---|----|---|----------------------------------|
| a | i | Location of the activity. | See Data Reprocessing Report |
| | ii | Period of the activity. | See See Data Reprocessing Report |
| b | | Persons undertaking activity. | See See Data Reprocessing Report |
| c | i | The techniques and equipment used to process the data. | See See Data Reprocessing Report |
| | | | |
| 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 States/Territory | Commonwealth+ DA to forward to relevant archive | Format | Data due date | Remarks |
|--|-------------------------------------|---|--------|--|---|
| Raw stacked data (if generated as part of the reprocessing sequence,) including near /mid /far sub-stacks, if generated | 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 including PSDM / PSTM if generated, and including near /mid /far sub-stacks, if generated | 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. |
| 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"> • TWT & Depth Map • Velocity Map • Type Seismic line with interpretation marked Summary descriptive report relating to products |

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 States/Territory | Commonwealth+ DA to forward to relevant archive | Format | Data due date | Remarks |
|---|-------------------------------------|---|------------------------|---|--|
| 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 P6198 format |

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 |
|---|

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 |
| 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 AHJD. 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 altitudes, 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 (at 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 AHJD. 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. TIF, Bouguer |
| Geophysical images | Yes | Yes | Grids in ER Mapper format, PDF | Six months after completion of the survey | Images derived from the survey, e.g. TIF, Bouguer |
| 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

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 and one email copy will be submitted to Geoscience Australia 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 200g dry weight and thoroughly cleaned, dried and packaged with indelible printing of Well name, depth ranges. |
| Full hole cores, if cut | 2/3 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 CD ROM | Commonwealth+ CD ROM | | | | |
| Core photography | CD ROM | CD ROM | TIF or JPG or PNG 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. | |

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 survey operations during the week |
|---|

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. |

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 |
|---------------------------------------|

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 | |

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.

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

Two copies will be submitted to the Designated Authority by 20th 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 |
| | vi | Liquid and gaseous petroleum that have been delivered from the area |
| 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. | |