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Lakes Oil N.L.

(A.B.N. 62 004 247 214)

**DATA MANAGEMENT
PLAN
VIC/P47**

October 2006

Data Management Plan

Permit	VIC/P47 (Gilbert Block)
Holder and JV Partner 1	Eagle Bay Resources N.L.
Holder and JV Partner 2	Bass Strait Oil Company Ltd
JV Partner 3	Lakes Oil N.L. (operator) (*company responsible for data)
JV Partner 4	Moby Oil and Gas Limited
JV Partner 5	Gippsland Offshore Petroleum Limited
JV Partner 6	Rilo Explorations Pty Ltd

This Data Management Plan (DMP) is designed to be a "cradle to grave" plan for all foreseeable activities to be undertaken within the title area. However, if the Guidelines for reporting and submission of Petroleum Data are updated, then this DMP will be revised. For other activities not covered in detail in this plan (or in the DMP Guidelines) the Company responsible for the data shall specifically detail information on that activity, as it arises.

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Permit VIC/P47

Prepared by Lakes Oil N.L.

To: The Delegate
Terry McKinley
Manager Petroleum Operations, Safety and Environment
Department of Primary Industries
GPO Box 4440
Melbourne VIC 3001
Terry.McKinley@dpi.vic.gov.au

Signed for and on behalf of
Eagle Bay Resources N.L.,
Bass Straight Oil Company Ltd,
Lakes Oil N.L.,
Moby Oil and Gas Limited
Gippsland Offshore Petroleum Limited,
Rilo Explorations Pty Ltd
By
Lakes Oil N.L.

Per: I. B. Campbell
I. Campbell
Exploration Operator
Lakes Oil N.L.

Date: 27/10/2006

Version: 1.0

Designated Authority acceptance:

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Permit VIC/P47

Prepared by Lakes Oil N.L.

1. Location/Description of Title/Activity area

The following general location information is applicable to **Title VIC/P47**

AREA:	240 km ² , 4 Graticular Blocks
STATE:	Victoria
BASIN:	Gippsland Basin
AWARDED:	28 May 2001
EXPIRY DATE:	27 December 2008
OPERATOR:	Lakes Oil N.L. ("Lakes") ABN 62 004 247 214 Level 11, 500 Collins St Melbourne VIC 3000
ACT:	<i>Federal Petroleum (Submerged Lands) Act 1967</i>

2. Specific Requirements of DMP per Federal 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 "cradle to grave" plan for all foreseeable activities to be undertaken within the title area. However, if the Guidelines for reporting and submission of petroleum data are updated then this DMP will be revised. For other activities not covered in detail in this plan (or in the DMP Guidelines) the company responsible for the data shall specifically detail information on that activity, as it arises. Should a change in title type or Guidelines occur, the company shall review this DMP and resubmit a DMP for approval.
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 in 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 P(SL)A Guidelines for Data Submission version 6 (the Guidelines) in respect of the Federal Petroleum (Submerged Lands) (Data Management) Act 1967 .
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.
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.

108	<p>Issue a statement that reports & information will be given according to:</p> <ul style="list-style-type: none"> a. the timetable outlined in Part 2 of the Schedule; or b. a timetable proposed in the DMP. 	<p>The timing of submission of data that will be made/collected during the period of the DMP is outlined within the body of the document, as pertinent to the associated activity.</p>
109	<p>Summary of:</p> <ul style="list-style-type: none"> a. data management performance objectives against which performance will be measured; & b. measurement criteria that define the objectives. 	<p>Data and reports will be submitted on time and in accordance with Guidelines (see item 105). Archival and Environment conditions will comply with the Guidelines (see item 105).</p>
110	<p>Explain how the measurement criteria will confirm that the performance objectives have been met.</p>	<p>Submissions timetable will be monitored in-house. Storage handling conditions will be controlled via contracts for data services.</p>
111	<p>Summary of arrangements for:</p> <ul style="list-style-type: none"> 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. 	<p>Information and reports are currently stored at Lakes Oil's offices in a secure data storage rooms prior to being submitted to the Designated Authority as per timetable above. The data is stored at ~20°C, with UV-filtered fluorescent lighting and housed on wooden shelving. There are fire alarms and carbon dioxide extinguishers and access is controlled with only staff members permitted to use/view the data.</p>
112	<p>Acknowledge responsibility for collection, storage, and submission of information, cores, cuttings & samples obtained until all have been submitted to the Designated Authority.</p>	<p>The Operator acknowledges responsibility for collection, storage, and submission of information, cores, cuttings & samples obtained until all have been submitted to the Designated Authority.</p>
113	<p>Any other information that is necessary to demonstrate that the DMP complies with the Regulations.</p>	<p>As required, for specific instances.</p>

3. Activity**3.1 2D Seismic Acquisition and Processing****General Information**

a.	- Location of the activity - Period of the activity	See Survey Application
b.	Persons undertaking the survey activity	See Survey Application
c.	-The techniques and equipment used to collect the data -The techniques and equipment used to process the data -The techniques and equipment used to interpret the data	See Survey Application
d.	Progress reports	Weekly for field data At project closeout
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 acquisition report
g.	If interpretation is undertaken as part of the activity- the interpretation including maps	Interpretation report Maps

Written Information and Documentation

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

Table 1: 2D SEISMIC DATA

DATA REQUIRED	REPORT TYPE	FORMAT	DATA FOR STATE/TERRITORY	DATA FOR FEDERAL GOVT. (GA)	DATE FOR SUBMISSION (prior to or by)	REMARKS
Field Data Navigation data Includes final processed navigation and bathymetry data	Documentary	UKOOA	One copy	One Copy	12 months after completion of the acquisition	P1/90 or subsequent format with header information of navigation / shotpoint location data including bathymetry. Header data must include geodetic datum, spheroid, projection and clearly stated transformation parameters. See Appendix 2.1 for example.
Raw Navigation data	Documentary	UKOOA	Transfer Proposal (TP) to be forwarded by DA	To be forwarded to GA after approval of TP by State	12 months after completion of the acquisition	P2/94 or subsequent format
Seismic field data	Documentary	SEG Standard	Transfer Proposal (TP) to be forwarded by DA	To be forwarded to GA after approval of TP by State	12 months after completion of the acquisition	
Seismic support data	Documentary	PDF	Transfer Proposal (TP) to be obtained from State DA	To be forwarded to GA after approval of TP by State	12 months after completion of the acquisition	Observers logs, For onshore data only: surveyors notes, chaining diagrams, intersections
Uphole data (onshore)	Documentary	ASCII	One copy	No	12 months after completion of the acquisition	Includes line number, shotpoint and time depth pairs for each uphole.
Itemised field tape	Documentary	Digital (ASCII)	One copy	One Copy	12 months after the	Field data showing tape

listing					completion of the acquisition	number, survey name, line number, shotpoint range.
Processed Data						
Raw and final stacked data, near/mid/far sub-stacks - if generated	Documentary	SEG-Y	One copy	One copy	12 months after completion of acquisition	Includes fully annotated EBCDIC header.
Raw and final migrated data including PSDM / PSTM, near/mid/far sub-stacks - if generated	Documentary	SEG-Y	One copy	One copy	12 months after completion of acquisition	Includes fully annotated EBCDIC header.
Fully annotated image of final processed migrated data. (Onshore)	Documentary	TIFF	One copy	Not required	12 months after completion of acquisition	The image must have a vertical scale of not less than 5cm/sec. See Appendix 2.2 for details of requirements for relevant States.
Shotpoint to CDP relationship	Documentary	ASCII	One copy	One copy	12 months after completion of acquisition	Sufficient SP/CDP data for workstation interpretation. At least SOL and EOL relationships for each line and a listing of equivalent CDP/SP pairs for each line.
Itemised process tape listing	Documentary	ASCII	One copy	One copy	12 months after completion of acquisition	Showing tape number, survey name, line number, shotpoint range, data type.
Velocity data	Documentary	ASCII (Western format)	One copy	One copy	12 months after completion of acquisition	Including line number, shotpoint, time versus RMS pairs for both stacked and migrated velocities.

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Final Reports								
Final report (operations and navigation)	Documentary	PDF		One copy	One copy	12 months after completion of acquisition	Location map included. Onboard processing and any retained outputs to be documented in report. Refer to Section 19.1	
Final processing report	Documentary	PDF		One copy	One copy	12 months after completion of acquisition	Refer to Section 19.2 To include sample print out of SEG Y EBCDIC header.	
Final interpretation report	Derivative	PDF		One copy	One copy	18 months after completion of acquisition	Refer to Section 19.3	
Digital images of interpretation maps	Derivative	TIF		One copy	One copy	18 months after completion of acquisition	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks as Geo-referenced TIF images.	

3.2 3D Seismic Acquisition and Processing

General Information

a.	- Location of the activity - Period of the activity	See Survey Application
b.	Persons undertaking the survey activity	See Survey Application
c.	-The techniques and equipment used to collect the data -The techniques and equipment used to process the data -The techniques and equipment used to interpret the data	See Survey Application
d.	Progress reports	Weekly for field data At project closeout
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 acquisition report
g.	If interpretation is undertaken as part of the activity- the interpretation including maps	Interpretation report Maps

Written Information and Documentation

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

Table 2: 3D SEISMIC DATA

DATA REQUIRED	REPORT TYPE	FORMAT	DATA FOR STATE/ TERRITORY	DATA FOR FEDERAL GOVT. (GA)	DATE FOR SUBMISSION (prior to or by)	REMARKS
Field Data						
Final Processed Navigation data Includes bathymetry data.	Documentary	UKOOA	TP	To be forwarded to GA after approval of TP by State	18 months after completion of acquisition.	All associated data sufficient to re-process seismic data including shot and receiver coordinates. See Appendix 3.1 for example.
Raw Navigation data	Documentary	UKOOA	TP	To be forwarded to GA after approval of TP by State	18 months after completion of the acquisition	P2/94 or subsequent format.
Seismic field data	Documentary	SEG Standard	TP	To be forwarded to GA after approval of TP by State	18 months after completion of acquisition	To be submitted on high density media.
Seismic support data	Documentary	PDF	TP	To be forwarded to GA after approval of TP by State	18 months after completion of acquisition	Must include observer's logs For onshore/OBC data only: surveyors notes, chaining diagrams, intersections, SPS files
Uphole data (onshore)	Documentary	ASCII	One copy	No	18 months after completion of acquisition	Includes line number, shotpoint and time depth pairs for each uphole.
Itemised field tape listing	Documentary	ASCII	One copy only to be submitted to State DA	State to forward copy to GA	18 months after completion of acquisition	Showing tape number, survey name, line number, shotpoint range, data type in ASCII format.

Processed Data													
Raw stacked data, near/mid/far sub-stacks - if generated	Documentary	SEG- Y	TP	To be forwarded to GA after approval of TP by State	18 months after completion of acquisition	Includes fully annotated EBCDIC header.							
Raw and final migrated data including PSDM / PSTM, near/mid/far sub-stacks - if generated.	Documentary	SEG-Y	One copy	One copy	18 months after completion of acquisition	Includes fully annotated EBCDIC header.							
Final processed (grid) bin coordinates	Documentary	UKOOA 3D binning grids	One copy	One copy	18 months after completion of acquisition	See Appendix 3.2 for example.							
Polygonal position data (Full Fold Outline for offshore; Full Fold Outline and Surface Outline for onshore)	Documentary	ASCII tab delimited	One copy	One copy	18 months after completion of acquisition	Listing major inflection points of a polygon describing the location of the survey providing survey name, polygon point, inline/crossline nomenclature, latitude and longitude. See Appendix 3.3 for example							
Velocity data	Documentary	ASCII (Western Format)	One copy	One copy	18 months after completion of acquisition	Including bin number and time versus RMS velocity pair for both stacked and migrated velocities.							
2D data subset (non-exclusive surveys)	Documentary	SEG-Y	One copy	One copy	18 months after completion of acquisition	Final migrated data.							
Itemised process tape listing	Documentary	ASCII	One copy	One copy	18 months after completion of acquisition	Showing tape number, survey name, in-lines and crosslines, cdps, data type.							
Final Reports													
Final report (operations)	Documentary	PDF	One copy	One copy	18 months after	Location map included.							

and navigation)						completion of acquisition	Operations and Navigation Reports can be supplied as separate volumes. Onboard processing and any retained outputs to be documented in report.
Final processing report including grid definition	Documentary	PDF	One copy	One copy	One copy	18 months after completion of acquisition	To include sample print out of SEGY EBCDIC header, 3D grid definition details used for loading SEGY into interpretation work stations. See Appendix 3.3 for grid definition.
Final interpretation report	Derivative	PDF	One copy	One copy	One copy	18 months after completion of acquisition	
Digital images of interpretation maps	Derivative	TIF	One copy	One copy	One copy	18 months after completion of acquisition	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks as Georeferenced TIF images.

3.3 2D and 3D Seismic Reprocessing**General Information**

a.	-Location of the activity - Period of the activity	See Proposal
b.	Persons undertaking the activity	See Proposal
c.	The techniques and equipment used to process the data 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

Written Information and Documentation

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

Table 3: REPROCESSED SEISMIC DATA

DATA REQUIRED	REPORT TYPE	FORMAT	DATA FOR STATE/TERRITORY	DATA FOR FEDERAL GOVT. (GA)	DATE FOR SUBMISSION (prior to or by)	REMARKS
Processed Data						
Raw stacked data 2D and 3D, near/mid/far sub-stacks - if generated	Documentary	SEG-Y	One copy	One copy	Not later than the end of the title year in which the information was created.	Outputs must be in formats as specified in Tables 2 and 3.
Raw and final migrated data including PSDM / PSTM (2D and 3D), near/mid/far sub-stacks - if generated	Documentary	SEG-Y	One copy	One copy	Not later than the end of the title year in which the information was created.	Outputs must be in formats as specified in Tables 2 and 3.
Final processed (grid) bin coordinates	Documentary	UKOOA 3D binning grids	One copy	One copy	Not later than the end of the title year in which the information was created.	To be completed using UKOOA See Appendix 3.2 for example
Polygonal positions for 3D data (Full Fold Outline for offshore; Full Fold Outline and Surface Outline for onshore)	Documentary	ASCII tab delimited	One copy	One copy	Not later than the end of the title year in which the information was created.	Listing major inflection points of a polygon describing the location of the survey providing survey name, polygon point, inline/crossline nomenclature, latitude and longitude. See Appendix 3.3 for example.
Itemised tape listing	Documentary	ASCII Plus Hardcopy for South Australia	One copy	One copy	Not later than the end of the title year in which the information was created.	Showing the tape number, survey name, line number, shotpoint, data-type and what original tapes are on the copy tapes.
Fully annotated image of final reprocessed migrated data.	Documentary	See Appendix 2.2	One copy only to be submitted to State DA	No required	Not later than the end of the title year in which the information was created.	The image must have a vertical scale of not less than 5cm/sec. See Appendix 2.2 for details of

(Onshore only)							requirements for relevant States.
Velocity data	Documentary	ASCII (Western format)	One copy	One copy	Not later than the end of the title year in which the information was created.		Include line number, shotpoint, Time versus RMS pairs for both stacked and migrated velocities.
Final Reports							
Final report (Reprocessing)	Documentary	PDF Plus Hardcopy for South Australia	One copy	One copy	12 months after the end of permit year in which processing was completed		Outputs must be in formats as specified in Tables 2 and 3.
Final report (Interpretive)	Derivative	PDF Plus Hardcopy for South Australia	One copy	One copy	12 months after the end of permit year in which processing was completed		Geo-referenced TIF to include TWT structure maps at key horizons and representative sections showing seismic horizon picks.
Digital images of interpretation maps	Derivative	TIF	One copy	One copy	12 months after completion of processing		These include TWT structure maps at key horizons and representative sections showing seismic horizon picks as Geo-referenced TIF images.

3.4 Gravity, Magnetic and Other Survey Data

General Information

a.	- Location of the activity - Period of the activity	See Survey Application
b.	Persons undertaking the survey activity	See Survey Application
c.	-The techniques and equipment used to collect the data -The techniques and equipment used to process the data -The techniques and equipment used to interpret the data	See Survey Application
d.	Progress reports	Weekly for field data At project closeout
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 acquisition report
g.	If interpretation is undertaken as part of the activity- the interpretation including maps	Interpretation report Maps

Written Information and Documentation

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

Table 4: GRAVITY AND MAGNETIC SURVEY DATA

DATA REQUIRED	REPORT TYPE	FORMAT	DATA FOR STATE/ TERRITORY	DATA FOR FEDERAL GOVT. (GA)	DATE FOR SUBMISSION (prior to or by)	REMARKS
Field Data						
Aeromagnetic located field data	Documentary	ASCII columns	One copy	One copy	6 months after completion of survey	Must include: descriptive headers, flight number, line number, date and time, fiducial, raw magnetic reading, processed magnetic reading, radar and GPS or barometric altimeter, and base station reading. All coordinate data must also include clearly stated datum, spheroid and projection also clearly stated transformation parameters if not in same coordinate system as was acquired in the field.
Gravity field data	Documentary	ASCII columns	One copy	One copy	6 months after completion of survey	Including raw loop data, raw elevations plus measurement times and dates. All coordinate data must also include clearly stated datum, spheroid and projection, clearly stated transformation parameters if not in same coordinate

								system as was acquired in the field. All elevation values must be AHD.
Altimeter, storm monitor, etc. (aeromagnetic only)	Documentary	ASCII (appropriate format)	One copy	No	6 months after completion of survey	One copy of analog monitor records, diurnal records and altimeter records in an appropriate format.	Submission and format details to be negotiated with the Designated Authority	
Other types of surveys	Documentary	See remarks	See remarks		See remarks			
Processed Data								
Field and processed data	Documentary	ASCII	One copy	One copy	6 months after completion of survey	ASCII data includes ASEG- GDF2 format.		
Aeromagnetic processed data	Documentary	ASCII GDF2	One copy	One copy	6 months after completion of survey	Including pre and post microleveling data. All coordinate data must also include clearly stated datum, spheroid and projection also clearly stated transformation parameters if not in same coordinate system as acquired in the field.		
Gravity processed data	Documentary	ASCII GDF2	One copy	One copy	6 months after completion of survey	Data must include: descriptive headers, station, XY lat/long coordinates, meter reading, observed gravity value, elevation value calculation errors, final processed gravity		

	Documentary	PDF	One copy	One copy	6 months after completion of survey	value. All coordinate data must also include clearly stated datum, spheroid and projection, also clearly stated transformation parameters if not in same coordinate system as acquired in the field. All elevation values must be AHD.
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Final Reports Final report (operations, navigation and processing)	Documentary	PDF	One copy	One copy	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.
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Final interpretation report	Derivative	PDF	One copy	One copy	6 months after completion of processing	
Digital images of interpretation maps	Derivative	TIF	One copy	One copy	6 months after completion of processing	These include any maps included in the Interpretation report as separate Georeferenced TIF images.

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3.5 Wells

General Information

a.	- Location of the activity - Period of the activity	See Well Program
b.	Persons undertaking the survey activity	See Well Program
c.	-The techniques and equipment used to collect the data -The techniques and equipment used to process the data -The techniques and equipment used to interpret the data	See Well Program
d.	Progress reports	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- a 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 (Interpretative Data) Maps

Written Information and Documentation

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
h.	A well completion report

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

	Description
a.	Cores, core cuttings and fluid samples
b.	Sample slides
c.	Residues

Table 5: WELL DATA

DATA REQUIRED	REPORT TYPE*	FORMAT	DATA FOR STATE/ TERRITORY	DATA FOR FEDERAL GOVT.	DATE FOR SUBMISSION (prior to or by)	REMARKS
Field and processed digital data						
Edited field data and processed data for all wireline logs, MWD or LWD tools. Includes well test raw data.	Documentary	LIS, DLIS, LAS	One copy	Data to be forwarded to GA by Designated Authority	6 months after completion of the well	With verification listing of the data supplied. The data shall include full header information.
Edited field and processed data for borehole deviation surveys.	Documentary	LIS, DLIS, ASCII, LAS, XLS	One copy	Data to be forwarded to GA by Designated Authority	6 months after completion of the well	The data shall include full header information.
Interpretative log analysis	Derivative	LIS, DLIS, ASCII, LAS, XLS	One copy	One copy	12 months after completion of the well	The data shall include full header information.
Mud logging data	Documentary	ASCII, LAS	One copy	Data to be forwarded to GA by Designated Authority	6 months after completion of the well	With a header giving field names, curve names and units of measure
Velocity surveys -raw -processed -checkshot and time/depth analysis	Documentary	DLIS, SEGY ASCII (Checkshot data)	One copy	Data to be forwarded to GA by Designated Authority	6 months after completion of the well	To include verification header file.
Core, side wall core natural light photography – UV light to be done in fluorescent sections	Documentary	JPEG, PNG or TIF	One copy	One copy	6 months after completion of the well	Provide minimum 300 DPI image in 24-bit colour. High-resolution images able to be magnified (zoom in) without pixilation.

Samples		Petroleum Mineral Sample	One set	One set	One set	6 months after completion of the well	A minimum of 200g dry weight per sample interval set and thoroughly cleaned, dried and suitably packaged with indelible printing of well name, depth ranges.
Ditch cuttings		Petroleum Mineral Sample	One set	One set	One set	6 months after completion of the well	A minimum of 200g dry weight per sample interval set and thoroughly cleaned, dried and suitably packaged with indelible printing of well name, depth ranges.
Offshore - Full hole conventional cores (if cut)		Petroleum Mineral Sample	2/3 slab (after a year or as agreed)	1/3 slab (6 months after completion of the well)	To be submitted to GA	On completion of test	Fresh core slabbbed vertically of which 1/3 to be submitted to GA and 2/3 submitted to Designated Authority.
Gaseous hydrocarbon samples (in an API approved safety container)		Petroleum Mineral Sample	GA to advise DA of receipt	GA to advise DA	To be submitted to GA	On completion of test	If collected from wireline, drill stem or production tests. Consultation with GA recommended. (300 cc if available)
Fluid hydrocarbon samples (in an API approved safety container)		Petroleum Mineral Sample	GA to advise DA of receipt	GA to advise DA	To be submitted to GA	6 months after completion of the well or after collection of sample	If collected from wireline, drill stem or production tests. Consultation with GA recommended. (1ltr if available)
Sidewall core material (if recovered)		Petroleum Mineral Sample	One set	One set	No	12 months after completion of the well	
Palynological slides and Palaeontological material		Petroleum Mineral Sample	One set	One set	No	12 months after completion of the well	If prepared.
Petrological slides							

Reports and images (Digital format preferred for all lodgements)							
Well Completion Report separated into: Documentary data		PDF	One copy	One copy	One copy	6 months after completion of the well	Security free basic and interpretive volumes must be separated, image files and logs included in reports must be submitted as separate JPEG or TIF files
Derivative data		PDF	One copy	One copy	One copy	12 months after completion of the well	Interpretive volume to include composite well log.
Log displays.	Documentary	PDS/ META/ PDF	One copy	One copy	Data to be forwarded to GA by Designated Authority	6 months after completion of the well	Software to be provided. Continuous page at a readable scale.
Mudlog	Documentary	TIF/ PDF	One copy	One copy	One copy	6 months after completion of the well	Continuous page at a readable scale.
Well index sheet	Derivative	PDF	One copy	One copy	One copy	12 months after completion of the well	Example to be provided.
Petrophysical, geochemical or other sample analyses	Documentary	ASCII/ XLS	One copy	One copy	One copy	12 months after completion of the well	As a tab delimited ASCII file with metadata included.
Composite well log	Derivative	TIF/JPEG	One copy	One copy	One copy	12 months after completion of the well	
Velocity log displays	Documentary	TIF/JPEG	One copy	One copy	One copy	6 months after completion of the well	

Special Study Submission Requirements

Workover/re-entry report	Documen- tary	PDF	One copy	One copy	6 months after completion of the well	Documentary and derivative volumes must be separated; image files included in reports must also be submitted as separate JPEG or TIF files.
Reports on investigation, analysis, etc. of cuttings or cores, and reports on any overseas investigation of cuttings or core plugs	Documen- tary/ Derivative	PDF	One copy	One copy	12 months after sampling or borrowing material	An annual report is required for any cuttings or cores retained overseas for more than 12 months
Data from investigation, analysis, etc. of cuttings or cores	Documen- tary	ASCII/ XLS	One copy	One copy	12 months after sampling or borrowing material	As a tab delimited ASCII file with metadata included and attached to the analysis report.

3.6 Geological and Geochemical Surveys

General Information

a.	- Location of the activity - Period of the activity	See Survey Application
b.	Persons undertaking the survey activity	See Survey Application
c.	-The techniques and equipment used to collect the data -The techniques and equipment used to process the data -The techniques and equipment used to interpret the data	See Survey Application
d.	Progress reports	Weekly for field data At project closeout
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 acquisition report
g.	If interpretation is undertaken as part of the activity- the interpretation including maps	Interpretation report Maps

Written Information and Documentation

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

Table 6: GEOLOGICAL AND GEOCHEMICAL

DATA REQUIRED	REPORT TYPE	FORMAT	DATA FOR STATE/ TERRITORY	DATA FOR SUBMISSION (prior to or by)	REMARKS
Geological and geochemical surveys data plan					
Data review reports	Documentary	PDF	One copy	Six months after completion of study	
Digital images of interpretation maps	Derivative	TIF	One copy	Six months after completion of study	
Studies done on cores and cuttings					
Reports and data from investigation analysis, etc of cuttings or cores, including PVT reports, Petrophysical reports, biostratigraphic reports	Documentary / Derivative	PDF, ASCII	One copy	Six months after borrowing of material	
Annual report for exported samples for analysis	Documentary / Derivative	PDF/ASCII	One copy	Annual from date of export	

3.7 Reports to be Submitted

DAILY REPORTS

On each day before midday a daily report of the Drilling Operations for the previous 24 hours shall be sent to the Designated Authority via email.

Daily Reports shall contain where available:

a.	The name, location, elevation/water depth of the well;
b.	The drilled depth;
c.	The work carried out;
d.	The lithology of the formations penetrated;
e.	Any indications of petroleum;
f.	Results of surveys made in the well bore, and
g.	Estimated daily and cumulative well costs.
h.	Summary of material usage.
i.	Leak off test summary.

WEEKLY REPORTS

If a geological or geophysical survey is in progress, a report will be given about survey operations carried out during a week. The weekly report will be given as soon as practicable after the end of the week to which the report relates.

QUARTERLY REPORTS

The report covers exploration activities for the three month period 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.

Two copies of each quarterly report shall be submitted to the Designated Authority no later than one month after the end of the quarter to which the report relates.

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

Exploration Permit Reports shall contain:

a.	A brief review of operations (including office studies) carried out with particular reference to fulfilling the work commitment for the permit year
b.	Estimated expenditure for the quarter
c.	Survey statistics
d.	Relevant geophysical and geological interpretations
e.	Such other relevant information as the Designated Authority, requires

Summary of Records of Discharge of Produced Formation Water shall include:

a.	The results of tests of equipment which monitors and records the concentration of petroleum in discharged formation water
b.	The rate of discharge of formation water

ANNUAL REPORTS

Two copies of an annual report shall be submitted to the Designated Authority no later than one month of the end of the year to which the report relates.

Annual Report shall contain:

a.	A general discussion of permit status and operations carried out (including office studies) with particular reference to fulfilling the work commitment for the permit year
b.	Technical conclusions derived from the year's operations
c.	A list of reports submitted during the year
d.	An outline of work plans for the next year with particular reference to fulfilling the work commitment for the permit year
e.	If appropriate- updated interpretation maps of seismic and potential field data at an appropriate scale
f.	A summary of annual expenditure

OTHER REPORTS

Well Completion Report shall be submitted to the designated authority and contain:

a.	The name of the well
b.	Water depth (WD) and kelly bushing (KB) or rotary table (RT)
c.	Well location in geographical coordinates, shotpoint number and seismic line annotations where appropriate, and including the permit name, graticular block number, and map sheet
d.	If the well is deviated or horizontal - the surveyed path of the well - coordinates of the bottom hole location, and -in the case of a potential producer, the coordinates at the intersection of the reservoir horizon
e.	The drilling rig and the drilling contractor used
f.	Wireline logging and mudlogging contractors used
g.	The spud date, date at which TD is reached, date of plug and abandonment (dry hole), and date of rig release
h.	The measured depth of the hole end, where appropriate, the true vertical depth (TVD) below the KB or RT
i.	A statement whether the well has been : -completed as a producer

	-suspended as a potential producer, or -abandoned
Drilling	
a.	The depth of the perforations in the petroleum reservoir (if any)
b.	Particulars of the equipment installed in or on the well
c.	Particulars of the casing and equipment installed in or on the well complete with schematics showing major dimensions
d.	Particulars of all deviation surveys made in the well
e.	Information on all cementing operations and schematics of abandonment
f.	Bit Records
g.	Drilling fluids (muds) used in the well
h.	Sample depths and types of all cores (including sidewall cores (SWC)), cuttings, and sample intervals
i.	Well evaluation logs (including measurement while drilling (MWD) logs, pressure detection logs, and mud logs), and fluid samples
j.	Particulars of any hydrocarbon indications
k.	Particulars of the operation and results, including raw pressure-time listings for all formation fluid sample tests and production tests (if any)
l.	The measured depth and TVD of marker horizons (formation tops)
m.	Particulars of the geological interpretations of the observations made as a result of drilling the well, including: -lithology and stratigraphy -reservoir quality, -source rock quality, and - trap integrity: for development wells- details of changes to the current reservoir model
n.	A discussion of the relevance of the findings of the well to the evaluation of the hydrocarbon potential of the area
Appendices	
a.	Reports of technical studies on velocity survey, logs, samples, cores, and side wall cores obtained from the well (including petrophysics, palaeontology, reservoir characteristics, fluid estimations, relative permeability, capillary pressure, fluid, and geochemical analysis)
b.	One copy of: -a composite well log -enclosures in the velocity survey report, -a mud log, and -if prepared- a wellsite geologist's lithology log
c.	A well index sheet
d.	Copies of revised structure maps and appropriate interpreted seismic sections illustrating post drilling structural and stratigraphic interpretation of the well

Final Survey Reports shall be submitted to the Designated Authority within the timeframe shown in the relevant tables:

Acquisition Report	
a.	Name and location of the survey including the titles in which it was conducted
b.	Dates of the start and finish of the survey
c.	Names of the contractors used to carry out the survey
d.	Details of all equipment used
e.	Geometry of acquisition parameters
f.	Line lists (the listings should be of individual tapes with the corresponding shot point ranges)
g.	System and equipment used for positioning and/or navigation
Processing reports	
a.	Name and location of the survey including the titles in which it was conducted
b.	Dates of the start and finish processing
c.	Name of the processing company
d.	Objectives of the processing
e.	All processing sequences and techniques used, required to reproduce the final product
f.	Sample EBCDIC header dump from the final dataset
g.	Comprehensive listings of all processed data (the listings are to contain data description, line and shot point ranges)
h.	Polygon position description- for 3D only
i.	Calculation for 3D line numbering convention (inline and crossline)
Interpretation Reports	
a.	Interpretations, including maps made as a result of the survey(unless the survey was a non-exclusive SPA)

Notification of Discovery Reports shall be submitted to the Designated Authority within 3 days of the discovery and shall contain particulars of:

a.	The chemical composition and physical properties of the petroleum
b.	The nature of the subsoil in which the petroleum occurs
c.	Any other matters relating to the discovery that are specified by the Designated Authority

Table 7: DAILY, WEEKLY, QUARTERLY AND ANNUAL REPORTING

DATA REQUIRED	REPORT TYPE	FORMAT	DATA FOR STATE/ TERRITORY	DATA FOR FEDERAL GOVT. (GA)	DATE FOR SUBMISSION (prior to or by)	REMARKS
Daily reports for wells	Documentary	PDF	One copy	One copy	By midday of the day after the day to which the report relates.	Must comply with Regulation 201 – see section 12 of Guidelines. Emailed to addresses designated by DA.
Daily logs for wells	Documentary	PDF, PDS, META	One copy	One copy	By midday of the day after the day to which the logs relate.	Emailed to addresses designated by DA.
Weekly reports for surveys	Documentary	PDF	One copy	One copy	As soon as practicable after the end of the week to which the report relates	Must comply with Regulation 202 – see section 13 of Guidelines. Emailed to addresses designated by DA.
Quarterly reports for exploration permits	Documentary	PDF	One copy	One copy	No later than one month after the end of the quarter to which the report relates	Must comply with Regulation 204 – see section 15a of Guidelines. Emailed or delivered to addresses designated by DA.
Annual reports for exploration permits and retention leases	Documentary	PDF	One copy	One copy	No later than one month after the end of the title year to which the report relates	Must comply with Regulation 205 – see section 16 of Guidelines. Emailed or delivered to addresses designated by DA.