

1R/04/0098

Permit VIC/P65

Prepared by Eagle Bay Resources N.L.

DEPT. NAT. RES. & ENV.



PE805444

Data Management Plan

Permit	VIC/P65
Holder 100%	Eagle Bay Resources N.L.

This Data Management Plan (DMP) is designed to be a "complete" plan for all foreseeable activities to be undertaken within, or near to, the title area. For other activities not covered in detail in this plan the Company responsible for the data shall specifically detail information on that activity, as it arises. In order to be an integrated document, many aspects of the Data Submission Guidelines have been incorporated into this DMP, so that this DMP becomes a stand-alone document.

Permit VIC/P65

Prepared by Eagle Bay Resources N.L.

To: The Designated Authority
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Signed for and on behalf of
Eagle Bay Resources N.L

By
Eagle Bay Resources N.L

Per:



.....
J.A. Salomon
Executive Director
Eagle Bay Resources N.L

Date: 5 May 2008

Version: 1.0

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4. General requirements of DMP as per Federal P(SL)A Data Management Regulations.

1. Location/Description of Title/Activity area

The following general location information is applicable to **Title VIC/P65**

AREA: 1,350 km², 22 Graticular Blocks
STATE: Victoria
BASIN: Gippsland Basin
AWARDED: 12 April 2007
EXPIRY DATE: 11 April 2013
OPERATOR: Eagle Bay Resources N.L. ("**Eagle Bay**")
ACN 051 212 429
Level 1,
610 Murray St
West Perth 6005

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

2. Specific Requirements of DMP per Federal Schedule 1

The item numbers in the table below refer to specific numbered parts of Schedule 1 of the Data Management Regulations, and the way in which this DMP addresses those specific points.

Item	Regulatory Provisions	Application to this DMP
101	Description of: a. each activity to which DMP relates; b. each location where activity will be carried out.	a) This DMP is designed to be a "complete" plan for all foreseeable activities to be undertaken within (or extending from) the title area. For other activities not covered in detail in this plan the company responsible for the data shall specifically detail information on that activity, as it arises. Should a change in title type or operatorship occur, the company shall review this DMP and resubmit a DMP for approval. b) the activities undertaken will occur within the geographic area bounded by the permit VIC/P65, and by also within a buffer zone of 20km away from the permit. Other activities (such as report writing, analyses) will be undertaken in the offices of Eagle Bay and its JV partners, or in the premises of contractors hired by Eagle Bay. No cores, cuttings or slides will be exported from Australia without explicit written permission of the Designated Authority.
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. Specific listings of information are given in the data tables, with general comments also given in Section 4.
103	Explanation of: a. data to be given to the Designated Authority without request by the Designated Authority; b. information to be kept.	a. Data to be submitted – refer to body of document, as pertinent to the associated activity. Each table shows which data is to be submitted for each activity that is undertaken. 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	<p>Explanation of how media and formats in item 104:</p> <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. 	<p>Data medias and formats are described within the body of the document and these all comply with the media and formats described in Section 4 Table MFS 2. Section 4 of this DMP describes in detail how media and formats relate to the Schedule item 105.</p>
106	<p>Undertake to allow access to data that is publicly available and explain how access will be allowed</p>	<p>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.</p>
107	<p>Describe arrangements that ensure information is preserved according to good archive practice.</p>	<p>Data preservation will be ensured via contracts covering data services in addition to in-house data management practice.</p>
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 dates specified in the specific data tables (see item 105), or as per the general submission timetable given in the Data Management Regulations Archival and Environment conditions will comply with the specifications set out in Section 4 MFS (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 will be stored at Eagle Bay's offices in a secure data storage rooms prior to being submitted to the Designated Authority as per timetable above. The electronic data is stored at controlled temperature, with UV-filtered fluorescent lighting, fire suppression systems 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. Section 4 Tables MFS 2, MFS 3, and MFS 4 give specific details of how the data will be stored.</p>

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 and other title holders acknowledge 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 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: 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, elevation 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 locations including elevations or 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 listing	Documentary	Digital (ASCII)	One copy	One Copy	12 months after the completion of the acquisition	Field data showing tape 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	One copy	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.			
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	Derivative	PDF	One copy	One copy	18 months after	Refer to Section 19.3			

report					completion of acquisition	
Digital images of interpretation maps	Derivative	TIF	One copy	One copy	18 months after completion of acquisition	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks as Geo-referenced TIF images.

- **TP: Transfer proposals to be sent to the Designated Authority for approval to submit. The DA will then instruct as to which address the data is to be sent.**
- **NOTE: South Australian Government also requires hard copies for all reports**

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 3: 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 elevation and 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. (P1/90)			
Polygonal position data (Full Fold Outline for offshore; Full Fold Outline and Surface Outline for onshore)	Documentary	UKOOA	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. (P6/98 format) 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, inline and crosslines, cdps, data type.			
Final Reports									
Final report (operations and navigation)	Documentary	PDF	One copy	One copy	18 months after completion of acquisition	Location map included. Operations and Navigation Reports can be supplied as separate volumes. Onboard processing and any retained outputs to be documented in report.			
Final processing report including grid	Documentary	PDF	One copy	One copy	18 months after completion of acquisition	To include sample print out of SEG-Y EBCDIC header, 3D grid definition			

definition					acquisition	details used for loading SEG Y into interpretation work stations. See Appendix 3.3 for example
Final interpretation report	Derivative	PDF	One copy	One copy	18 months after completion of acquisition	
Digital images of interpretation maps	Derivative	TIF	One copy	One copy	18 months after completion of acquisition	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks as Georeferenced TIF images.

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

NOTE: South Australian Government also requires hard copies for all reports

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 4: 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 will be in formats as specified in 2D and 3D Seismic Tables
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 2D and 3D Seismic Tables
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)									
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.	requirements for relevant States. 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 2D and 3D Seismic Tables			
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 5: GRAVITY, MAGNETIC and all other GEOPHYSICAL 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 acquisition	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 acquisition	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 acquisition	One copy of analog monitor records, diurnal records and altimeter records in an appropriate format.
Other types of surveys	Documentary	See remarks	See remarks		See remarks	Submission and format details to be negotiated with the Designated Authority

NOTE: South Australia requires only the final processed gravity and magnetic data. As well, SA requires all reports in hardcopy.

Processed Data Aeromagnetic processed data	Documentary	ASCII GDF2	One copy	One copy	6 months after completion of acquisition	Including pre and post microlevelling 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 acquisition	Data must include: descriptive headers, station, XY lat/long coordinates, meter reading, observed gravity value, elevation value calculation errors, final processed gravity 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.
Geophysical images	Documentary	PDF	One copy	One copy	6 months after completion of acquisition	
Final Reports Final report (operations, navigation and processing)	Documentary	PDF	One copy	One copy	6 months after completion of acquisition	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 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.

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 6: 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)			Fresh core slabbed vertically of which 1/3 to be submitted to GA and 2/3 submitted to Designated Authority.
Onshore - Full hole conventional cores (if cut)	Petroleum Mineral Sample	All to be submitted (after a year or as agreed)				Core to be slabbed as per DA Guidelines.
Gaseous hydrocarbon samples (in an API approved safety container)	Petroleum Mineral Sample	GA to advise DA of receipt	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	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	No	12 months after completion of the well		
Palynological slides and Palaeontological material Petrological slides	Petroleum Mineral Sample	One set	No	12 months after completion of the well		If prepared.

Reports and images (Digital format preferred for all lodgements)						
Well Completion Report separated into: Documentary data Derivative data		PDF	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 Interpretive volume to include composite well log.
		PDF	One copy	One copy	12 months after completion of the well	
Log displays.	Documentary	PDS/ META/ PDF	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	6 months after completion of the well	Continuous page at a readable scale.
Well index sheet	Derivative	PDF	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	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	12 months after completion of the well	
Velocity log displays	Documentary	TIF/JPEG	One copy	One copy	6 months after completion of the well	

Special Study Submission Requirements

Workover/re-entry report	Documentary	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	Documentary/ 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	Documentary	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.

- **REPORT TYPE** column refers to the type of information required. Previous to the 2000 amendment of the Petroleum (Submerged Land Act) 1967, Section 118 and the Guidelines supporting the Schedule of the Specific Requirements under the P(SL)A, reference was made in respect of Basic and Non-Basic (Interpretive) data types. Following the amendment of the P(SL)A 1967 in 2000 the previous Section 118 of the P(SL)A 1967 was re-defined in Section 150 and the data types defined as *Documentary and Petroleum Mining Sample* (previously referred to as BASIC) and *Derivative* (previously referred to as NON-BASIC or INTERPRETIVE).
- TP: Transfer proposals to be sent to the Designated Authority for approval to submit. The DA will then instruct as to which address the data is to be sent.
- **NOTE:** South Australian Government also requires Hard Copies for all Wire Line logs and Reports.
- **NOTE :** In addition to the above Victoria will accept PDF or CGM files for log displays
- **NOTE :** For submission of Palynology slides for Victoria – see Section 4

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 7: GEOLOGICAL AND GEOCHEMICAL

DATA REQUIRED	REPORT TYPE	FORMAT	DATA FOR STATE/ TERRITORY	DATA FOR SUBMISSION (prior to or by)	REMARKS
Geological and geochemical surveys and studies 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.

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 period
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 8: DAILY, WEEKLY, 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 – 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 – Emailed to addresses designated by DA.
Annual reports for exploration permits and retention leases	Documentary/ Derivative	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 – Emailed or delivered to addresses designated by DA.
Annual reports for production licences	Documentary/ Derivative	PDF	One copy	One copy	In the month of September or other nominated month by the DA	Must comply with Schedule 650 – 651. Emailed or delivered to addresses designated by DA.

4. General requirements of DMP as per Federal P(SL)A Data Management Regulations.

This section contains general comments and discussion about how this DMP complies with the Data Management Regulations.

This section specifies general rules for the selection of formats, media and storage. For specific formats and media details, the tables appropriate to each type of activity in earlier sections of this DMP will be used.

4.1 MEDIA

For data submitted under medium for all data where possible, except seismic field data and large data sets, will be CD-ROM and/or DVD. These media are designed for transfer of data.

The media for seismic field data and large data sets are 3590 and 3592 cartridges. These media are specifically designed for digital data that is archived and stored for long term time periods.

4.2 FORMATS: General

PDF files will be submitted as security free. No stick-on labels to be used on DVD media. Formats will comply wherever possible with international standards, and will contain metadata that is more than sufficient for later use by a wide variety of users. Formats will also be compatible with the type of media chosen, and vice-versa.

Certain formats for ONSHORE seismic sections are required by different states. Offshore seismic sections will not be submitted, as these are no longer required by the government.

Table MFS 1

Requirements for seismic section image data (onshore data only) for individual States.

State	Type	Format
New South Wales	Digital	CGM+
Northern Territory	Digital	Tif
Queensland	Digital	CGM
South Australia	Digital	Tif
Tasmania	Digital	Tif
Victoria	Digital	CGM+ / PDF / tif
Western Australia	Digital	PDF / CGM+

4.3 STORAGE OF DIGITAL DATA

In the event that the title holders choose to retain the seismic field and processed data beyond the required submission date, then these data will be managed using good digital archiving principles. These will include:

- Monitoring the condition of the media upon which the data is stored to ensure data integrity is maintained during the storage period;
- Transcribing to new high density media before the old media deteriorate;
- Ensuring open file data is released upon request in a timely fashion and in such a manner as the preservation and security of the data is not compromised;
- Records of original data usage are kept and the Designated Authority advised on an annual basis of the status of the data.

Original data will not be exported overseas without the written consent of the Designated Authority.

The following will be used as standards for the storage of magnetic media:

TABLE MFS 2: Environment

Temperature/RH	Air quality	Lighting
<ul style="list-style-type: none"> • Maximum stability required • 18-20°C ± 2°C • 45-50%RH ± 5% RH = relative humidity 	<ul style="list-style-type: none"> • filtered to exclude dust and other particles • filtered to exclude acidic & oxidizing gases • well ventilated 	<ul style="list-style-type: none"> • UV-filtered fluorescent lighting • Timer controlled switches

TABLE MFS 3: Safety and protection

Fire	Security	Housing	Containers
<ul style="list-style-type: none"> • VESDA (very early smoke detection apparatus) • Fire alarms • Carbon dioxide extinguishers • Total gas flooding system 	<ul style="list-style-type: none"> • 24-hour physical or electronic surveillance • alarm systems • controlled access 	<ul style="list-style-type: none"> • Non-magnetic shelving • Tape reels must be suspended vertically on the hub 	Non-magnetic, archival quality sealed containers, cassettes, cases or sleeves

4.4 REPORT CONTENTS

Contents of reports will be as per the Data Management Regulations, and as per the contents specified in the individual activities within this DMP. Other reports will be as follows.

18. WELL COMPLETION REPORTS shall be submitted to the Designated Authority and shall contain:

18.1. The name of the well

- 18.2. Elevation of the ground level and kelly bushing (KB) or rotary table (RT) (onshore), or water depth (WD) and kelly bushing or rotary table (offshore)
- 18.3. Well location in geographical coordinates, shotpoint number and seismic line annotations where appropriate, and including the permit name, graticular block number, and map sheet.
- 18.4. If the well is deviated or horizontal:
 - 18.4.1. the surveyed path of the well,
 - 18.4.2. coordinates of the bottom hole location, and
 - 18.4.3. in the case of a potential producer, the coordinates at the intersection of the reservoir horizon
- 18.5. The drilling rig and drilling contractor used
- 18.6. Wireline logging and mudlogging contractors used
- 18.7. The spud date, date at which TD is reached, date of plug and abandonment (dry hole), and date of rig release
- 18.8. The measured depth of the hole end, where appropriate, the true vertical depth (TVD) below the KB or RT
- 18.9. A statement whether the well has been:
 - 18.9.1. completed as a producer,
 - 18.9.2. suspended as a potential producer, or
 - 18.9.3. abandoned

Drilling

- 18.10. The depth of perforations in the petroleum reservoir (if any)
- 18.11. Particulars of the equipment installed in or on the well
- 18.12. Particulars of the casing and equipment installed in or on the well complete with schematics showing major dimensions
- 18.13. Particulars of all deviation surveys made in the well
- 18.14. Information on all cementing operations and schematics of abandonment
- 18.15. Bit records
- 18.16. Drilling fluids (muds) used in the well
- 18.17. Sample depths and types of all cores (including sidewall cores (SWC)), cuttings, and sample intervals

- 18.18. Well evaluation logs (including measurement while drilling (MWD) logs, pressure detection logs, and mud logs), and fluid samples.
- 18.19. Particulars of any hydrocarbon indications
- 18.20. Particulars of the operation and results, including raw pressure-time listings for all formation fluid sample tests and production tests (if any)
- 18.21. The measured depth and TVD of marker horizons (formation tops)
- 18.22. Particulars of the geological interpretations of the observations made as a result of drilling the well, including:
 - 18.22.1. lithology and stratigraphy,
 - 18.22.2. reservoir quality,
 - 18.22.3. source rock quality, and
 - 18.22.4. trap integrity: for development wells — details of changes to the current reservoir model
- 18.23. For exploration wells — a discussion of the relevance of the findings of the well to the evaluation of the hydrocarbon potential of the area; and for development wells — the implication for future field management

Appendices

- 18.24. Reports of technical studies on velocity surveys, 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 analyses)
- 18.25. One copy of:
 - 18.25.1. a composite well log,
 - 18.25.2. enclosures in the velocity survey report,
 - 18.25.3. a mud log, and
 - 18.25.4. if prepared — a wellsite geologist's lithology log
- 18.26. A well index sheet
- 18.27. 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 Reports

- 19.1.1 Name and location of the survey including the titles in which it was conducted
- 19.1.2 Dates of the start and finish of the survey
- 19.1.3 Names of the contractors used to carry out the survey
- 19.1.4 Details of all equipment used
- 19.1.5 Geometry of acquisition parameters
- 19.1.6 Line lists (the listings should be of individual tapes with the corresponding shot point ranges)
- 19.1.7 System and equipment used for positioning and / or navigation

Processing Reports

- 19.2.1 Name and location of the survey including the titles in which it was conducted
- 19.2.2 Dates of the start and finish of processing
- 19.2.3 Name of the processing company
- 19.2.4 Objectives of the processing
- 19.2.5 All processing sequences and techniques used, required to reproduce the final product
- 19.2.6 Sample EBCDIC header dump from the final dataset.
- 19.2.7 Comprehensive listings of all processed data (the listings are to contain data description, line and shot point ranges)
- 19.2.8 Polygon position description – for 3D only
- 19.2.9 Calculation for 3D line numbering convention (inline and crossline)

Interpretation Reports

Interpretations, including maps, made as a result of the survey (unless the survey was a non-exclusive SPA)

- 20 Notification of Discovery Reports** shall be submitted to the Designated Authority within 3 days of the discovery and shall contain particulars of:
- 20.1 The chemical composition and physical properties of the petroleum
 - 20.2 The nature of the subsoil in which the petroleum occurs
 - 20.3 Any other matters relating to the discovery that are specified by the Designated Authority

4.5 PALYNOLOGY SLIDES

For those palynology slides that are created for data that is the state of Victoria, the Biostratigraphic (including Palynology) Slides or residues will be submitted to the National Museum in Melbourne according to the P-numbering requirements desired by the Melbourne Museum. The following process with pertain to these palynological / biostratigraphic slides:

1. obtain a valid range of Museum of Victoria unique "P" catalogue numbers form the Melbourne Museum
2. label the palynological slides with these P numbers, preferably on the slide itself in indelible ink rather than on a sticker
3. submit a full biostratigraphic reports to the Victorian DA
4. catalogue these slides and submit TO THE Victorian DA, a digital ASCII catalogue of the slides showing
 1. unique Museum P Number
 2. well name
 3. sample type (core / cuttings / swc)
 4. the original core number of side wall core number (if applicable)
 5. depth point value
 6. depth range (if applicable)
 7. slide type (e.g. kerogen, oxidised etc)
 8. other descriptive details
 9. remarks, including any further processing (e.g. sieve size) or identification

4.6 HEADER DATA FOR DIGITAL DATA

This section shows examples of data submission requirements for 3D Seismic data. These examples are indicative of the characteristics of the types of headers that we will be requiring of our subcontractors and that will be submitted.

EXAMPLE 4.6.1 : Field navigation

H01 SURVEY AREA	HV11 TIMOR SEA AUSTRALIA
H02 SURVEY YEAR	1990

H021 DATE OF TAPE 08/31/90
 H022 TAPE DENSITY 6250
 H03 CLIENT BHP AUSTRALIA
 H04 GEOPHYSICAL CONTRACTOR GECO GEOPHYSICAL CO. SFE
 H05 POSITIONING CONTRACTOR ONI
 H06 NAV. PROCESSING CONTR. GECO GEOPHYSICAL CO. NSA
 H07 NAVIGATION SYSTEM SPOT
 H08 COORDINATE LOCATION SOURCE AND RECIEVER POSITIONS
 H090 OFFSET-SYSTEM TO COORDS ANTENNA TO 1ST GRP = 229.0 METERS
 H091 OFFSET-SYSTEM TO COORDS SOURCE TO 1ST GRP = 133.0 M.
 H10 CLOCK TIME G.M.T.
 H11 NR. OF RECEIVERS 480
 H11 NR. OF STREAMERS TWO
 H111 NUMBERING OF RECIEVERS CABLE 1 REC# 1-240 STARBOARD
 H111 NUMBERING OF RECIEVERS CABLE 2 REC# 241-480 PORT
 H12 SURVEY SPHEROID AUSTRALIAN NATIONAL 6378160.000 298.2500000
 H13 POST PLOT SPHEROID AUSTRALIAN NATIONAL 6378160.000 298.2500000
 H14 SURVEY DATUM AGD 66
 H15 POST PLOT DATUM AGD 66
 H160 DATUM SHIFT: PARAMETER FROM SURVEY TO POSTPLOT DATUM
 H161 SHIFT CONSTANTS:(METERS) DX= 00.00 DY= 00.00 DZ= 00.00
 H161 XROT= 0.00 YROT= 0.00 ZROT= 0.00
 H161 DIMENSIONLESS SCALE FACTOR = 0.000 PPM
 H17 VERTICAL : SEA LEVEL
 H18 PROJECTION: TRANSVERSE MERCATOR
 H19 PROJECTION ZONE: UTM ZONE NO.51 SOUTHERN HEMISPHERE
 H20 GRID UNIT: METER
 H220 CENTRAL MERIDIAN: 1230000.000E
 H231 ORIGIN: 0000000.000 1230000.000E
 H232 FALSE EASTING,NORTHING 10000000.00N 500000.00E
 H241 SCALE FACTOR: 0.9996
 H242 LONG. AT SCALE FACTOR: 1230000.000E
 H26 COMMENTS: FINAL NAV OUTPUT WITH ONE SOURCE POSITION FOLLOWED BY 240
 H26 COMMENTS: STARBOARD AND 240 PORT RECIEVER POSITIONS
 SHV11-121 689123231.80S1242745.77E 6589207 86130480 89.4194232733
 R 1 6590463 86129820 2 6590546 86129730 3 6590629 86129630
 R 4 6590712 86129540 5 6590795 86129450 6 6590878 86129350
 R 7 6590961 86129260 8 6591044 86129170 9 6591128 86129070
 R 10 6591211 86128980 11 6591294 86128890 12 6591377 86128790
 R 13 6591460 86128700 14 6591543 86128610 15 6591627 86128510
 R 16 6591710 86128420 17 6591793 86128330 18 6591876 86128230
 R 19 6591959 86128140 20 6592043 86128050 21 6592126 86127950
 R 22 6592209 86127860 23 6592293 86127770 24 6592376 86127670
 R 25 6592459 86127580 26 6592543 86127490 27 6592626 86127390
 R 28 6592709 86127300 29 6592793 86127210 30 6592876 86127110
 R 31 6592959 86127020 32 6593043 86126930 33 6593126 86126840
 R 34 6593209 86126740 35 6593293 86126650 36 6593376 86126560
 R 37 6593459 86126460 38 6593543 86126370 39 6593626 86126280
 R 40 6593709 86126180 41 6593793 86126090 42 6593876 86126000
 R 43 6593960 86125900 44 6594043 86125810 45 6594127 86125720
 R 46 6594210 86125620 47 6594294 86125530 48 6594377 86125440
 R 49 6594461 86125350 50 6594544 86125250 51 6594628 86125160
 R 52 6594711 86125070 53 6594794 86124970 54 6594878 86124880
 R 55 6594961 86124790 56 6595044 86124690 57 6595128 86124600
 R 58 6595211 86124510 59 6595294 86124410 60 6595378 86124320
 R 61 6595461 86124230 62 6595545 86124140 63 6595628 86124040
 R 64 6595711 86123950 65 6595795 86123860 66 6595878 86123760

EXAMPLE 4.6.2 : Sample post-binning navigation file for 3D Seismic data.

```

H0100 SURVEY & AREA NAME          HB96B, BUFFALO                130396
H0101 GENERAL SURVEY DETAILS      DUAL CABLE, DUAL SOURCE 3D SURVEY
H0102 VESSEL DETAILS              WESTERN HORIZON P131         1
H0103 SOURCE DETAILS              N/A
H0104 STREAMER DETAILS            N/A
H0200 DATE OF SURVEY              MARCH TO MAY 1996
H0201 POSTPLOT DATE               23 DECEMBER 1996
H0202 TAPE VERSION                UKOOA-P1/1990 (WESTERN VERSION 01.01)
H0300 CLIENT NAME                 B.H.P.
H0400 GEOPHYSICAL CONTRACTOR      Western Geophysical.
H0500 POSITIONING CONTRACTOR        Western Geophysical.
H0600 PROCESSING CONTRACTOR        WESTERN ATLAS INTERNATIONAL
H0700 POSITIONING SYSTEM            WISDOM (TM) INTEGRATED NAV SYSTEM
H0800 COORDINATE LOCATION          STACK TRACE CENTRE OF BIN
H0900 POSITION OFFSETS              N/A
H1000 CLOCK TIME                   GMT + 0 HOURS
H1100 RECEIVER GROUPS PER SHOT     480
H1400 GEODETIC DATUM AS SURVEYED   AGD-84 AUSTRALIAN N 6378160.000 298.2500000
H1401 TRANSFORMATION PARAMETERS    -116.0 -50.5 141.7 -.230 -.390 -.344 .0983000
H1500 GEODETIC DATUM AS PLOTTED    AGD-84 AUSTRALIAN N 6378160.000 298.2500000
H1501 TRANSFORMATION PARAMETERS    -116.0 -50.5 141.7 -.230 -.390 -.344 .0983000
H1600 DATUM SHIFTS                 .0 .0 .0 .000 .000 .000 .0000000
H1700 VERTICAL DATUM               MEAN SEA LEVEL ECHO SOUNDER
H1800 PROJECTION TYPE              002UNIVERSAL TRANSVERSE MERCATOR
H1900 UTM ZONE                      52S
H2000 GRID UNITS                    1METERS 1.0000000000000
H2001 HEIGHT UNITS                 1METRES 1.0000000000000
H2002 ANGULAR UNITS                 1DEGREES
H2200 CENTRAL MERIDIAN              129 0 .000E
H2301 GRID ORIGIN                   0 0 .000N129 0 .000E
H2302 GRID COORDINATES AT ORIGIN    500000.00E10000000.00N
H2401 SCALE FACTOR                  .9996000000
H2402 SCALE FACTOR DEFINED AT        0 0 .000N129 0 .000E
H2600
H2600 DATUM ROTATION PARAMETERS ARE EXPRESSED IN COORDINATE FRAME SENSE
H2600
QHB96-10000 1900104642.22S1255821.88E 168901.08806882.5 528.2
QHB96-10000 1901104641.89S1255821.89E 168901.08806892.5 528.2
QHB96-10000 1902104641.57S1255821.89E 168901.08806902.5 529.8
QHB96-10000 1903104641.24S1255821.89E 168901.08806912.5 529.8
QHB96-10000 1904104640.92S1255821.89E 168901.08806922.5 529.8
QHB96-10000 1905104640.59S1255821.90E 168901.08806932.5 529.8
QHB96-10000 1906104640.27S1255821.90E 168901.08806942.5 529.8
QHB96-10000 1907104639.94S1255821.90E 168901.08806952.5 529.8
QHB96-10000 1908104639.62S1255821.91E 168901.08806962.5 529.8
QHB96-10000 1909104639.29S1255821.91E 168901.08806972.5 529.8
QHB96-10000 1910104638.97S1255821.91E 168901.08806982.5 529.8
QHB96-10000 1911104638.64S1255821.92E 168901.08806992.5 529.8
QHB96-10000 1912104638.32S1255821.92E 168901.08807002.5 529.8
QHB96-10000 1913104637.99S1255821.92E 168901.08807012.5 529.8
QHB96-10000 1914104637.67S1255821.93E 168901.08807022.5 529.8
QHB96-10000 1915104637.34S1255821.93E 168901.08807032.5 529.8

```

EXAMPLE 4.6.3 : Example of polygon position data and Processing Report inclusion required for 3D data.

<u>Grid Definitions</u>			
Datum	AGD-84		
Spheroid	ANS	Semi-major axis	6378160.000
		Semi-minor axis	6356774.719
		Inverse flattening	298.25000
		Eccentricity	0.006694
Projection	UTM		
		Central meridian	120.00
		Scale factor	0.99600
		False Easting	50000.00
		False Northing	10000000.00
Datum shift from WGS-84 to LOCAL			
	dX	+116.0000	rX -0.230000
	dY	+050.4700	rY -0.390000
	dZ	500000.00	rZ -0.344000
	Scale	-0098300000	
Navigation origin (inline 1001 crossline 1001)	Easting	636744.95	
	Northing	8473164.88	
	Latitude	13 48 28.060 S	
	Longitude	124 15 540447 E	
Processing grid			
	CDP spacing	12.5m	
	CDP increment	1.0	
	Line spacing	12.5m	
	Line increment	1.0	
	Prospect angle	40.005000 degrees	
Corner points of the grid			
	<u>X-coords</u>	<u>Y-coords</u>	<u>Inline</u>
	635870.41	8472619.28	981
	686385.321	8524919.867	981
	663634.5862	8445803.044	4069
	714149.4973	8498103.631	4069
			<u>Crossline</u>
			921
			6738
			921
			6738
Total number of cells 17971802			

