



Data Management Plan

Activity:	Exploration Program for VIC/P54
Title:	VIC/P54
 HOLDERS:	Apache Energy Limited (Operator) Apache Northwest Pty Ltd Nexus Energy VICP54 Pty Ltd

Prepared by: Apache Energy Limited

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1. General Information (Regulation 12)

The following information is applicable to VIC/P54 (refer to map Enclosure 1):

AREA: 630km², 11 Graticular Blocks
STATE: Victoria
BASIN: Gippsland
AWARDED: 8 April 2003
EXPIRY DATE: 7 April 2009
OPERATOR: Apache Energy Limited
 Level 3, 256 St Georges Terrace
 Perth, Western Australia
ACT: Commonwealth – P(LS)A 1967

WORK PROGRAM: See Table 1
PROGRESS REPORTS: See Table 2
 Reports to be submitted within 1 month of the
 listed date

Table 1 : VIC/P54 Work Program

Permit Year	Minimum Work Requirements	Indicative Expenditure (A\$)
1 8-Apr-03 to 7-Apr-04	G&G Studies	200,000
2 8-Apr-04 to 7-Apr-05	Purchase 3D seismic from existing Northern Fields 3D seismic that lies within permit (approx. 320km ²)	10,000,000
3 8-Apr-05 to 7-Apr-06	Three (3) Wells	28,000,000
4 8-Apr-06 to 7-Apr-07	G&G Studies	200,000
5 8-Apr-07 to 7-Apr-08	G&G Studies	100,000
6 8-Apr-08 to 7-Apr-09	One (1) Well	10,000,000

Table 2 : Progress Reports Timetable

Permit Year	Quarter 1	Quarter 2	Quarter 3	Quarter 4/Annual
1	7-Jul-03	7-Oct-03	7-Jan-04	7-Apr-04
2	7-Jul-04	7-Oct-04	7-Jan-05	7-Apr-05
3	7-Jul-05	7-Oct-05	7-Jan-06	7-Apr-06
4	7-Jul-06	7-Oct-06	7-Jan-07	7-Apr-07
5	7-Jul-07	7-Oct-07	7-Jan-08	7-Apr-08
6	7-Jul-08	7-Oct-08	7-Jan-09	7-Apr-09

2. Specific Requirements of DMP - Schedule 1 Part 1

101	Description of <ol style="list-style-type: none"> a. each activity to which DMP relates b. each location where activity will be carried out 	<ul style="list-style-type: none"> • The Work Program to be undertaken during the Permit Term is detailed in Table 1 in Section 1.
102	Description of reports & information that will be made and kept	<ul style="list-style-type: none"> • The Tables in Section 5 list the information that will be made/collected during the Permit Term. • All information and reports will be submitted to the Designated Authority.
103	Explanation of <ol style="list-style-type: none"> a. data to be given to DA without request by DA b. information to be kept 	<ul style="list-style-type: none"> • Data to be submitted <ul style="list-style-type: none"> – refer Tables in Section 5 • Data to be withheld <ul style="list-style-type: none"> – Internal Processing
104	Description of media and formats for information, cores, cuttings or samples held	<ul style="list-style-type: none"> • The information and reports will be submitted in the format and on the media outlined in Tables in Section 5.
105	Explanation of how media and formats in 104 <ol style="list-style-type: none"> a. are appropriate for type & volume of data collected b. comply with DA requirements c. comply with good industry practice 	<ul style="list-style-type: none"> • Data medias and formats described in Tables in Section 5 comply with the Guidelines for data submission required under Western Australian and Commonwealth Petroleum legislation (March 2004).
106	Undertake to allow access to data that is publicly available and explain how access will be allowed	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Data preservation will be ensured via contracts covering data services in addition to in-house data management practice.
108	Issue a statement that reports & information will be given according to <ol style="list-style-type: none"> a. the timetable outlined in Part 2 of the schedule or b. a timetable proposed in the DMP. 	<ul style="list-style-type: none"> • Tables in Section 5 list the timing of submission of data that will be made/collected during the period of the DMP.
109	Summary of <ol style="list-style-type: none"> a. data management performance objectives against which performance will be measured and b. measurement criteria that define the objectives 	<ul style="list-style-type: none"> • Data and reports will be submitted on time and in accordance with the Guidelines (see 105). • Archival and Environmental conditions will comply with the Guidelines (see 105).

2. **Specific Requirements of DMP - Schedule 1 Part 1 (Continued)**

110	Explain how the measurement criteria will confirm that the performance objectives have been met.	<ul style="list-style-type: none"> • The Submissions timetable will be monitored in-house. • Storage handling conditions will be controlled via contracts for data services.
111	<p>Summary of arrangements for;</p> <ol 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. 	<ul style="list-style-type: none"> • Information and reports will be stored at the nominated address in a secure data storage room prior to being submitted to the Designated Authority as per timetable above. • The storage of data will meet the good digital archival principles as set out in the Guidelines for reporting and submission of petroleum data, and as recommended by the Australian Archives.
112	Acknowledge responsibility for collection, storage, and submission of information, cores, cuttings & samples obtained until all have been submitted to DA.	<ul style="list-style-type: none"> • The Operator acknowledges responsibility for the 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.	

3. Reports – Schedule 1 Part 2

3.1 Daily Drilling Reports – Exploration Permits (Regulation 201)

A copy will be submitted electronically to the DA no later than midday on the day after the day to which the report relates.

Report Contents:

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

3. Reports – Schedule 1 Part 2 (Continued)

3.2 Quarterly Reports – Exploration Permits (Regulation 204)

The report covers exploration activities for the 3 month period after the day on which the permit was awarded, and will be submitted not later than 1 month after the period to which the report covers.

No report will be submitted for the fourth quarter if relevant information is included in the annual report as per Regulation 205.

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

Report Contents:

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

3.3 Annual Report – Exploration Permit (Regulation 205)

Two copies of the report will be submitted to the Designated Authority not later than 1 month after the period to which the report covers.

Report Contents:

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

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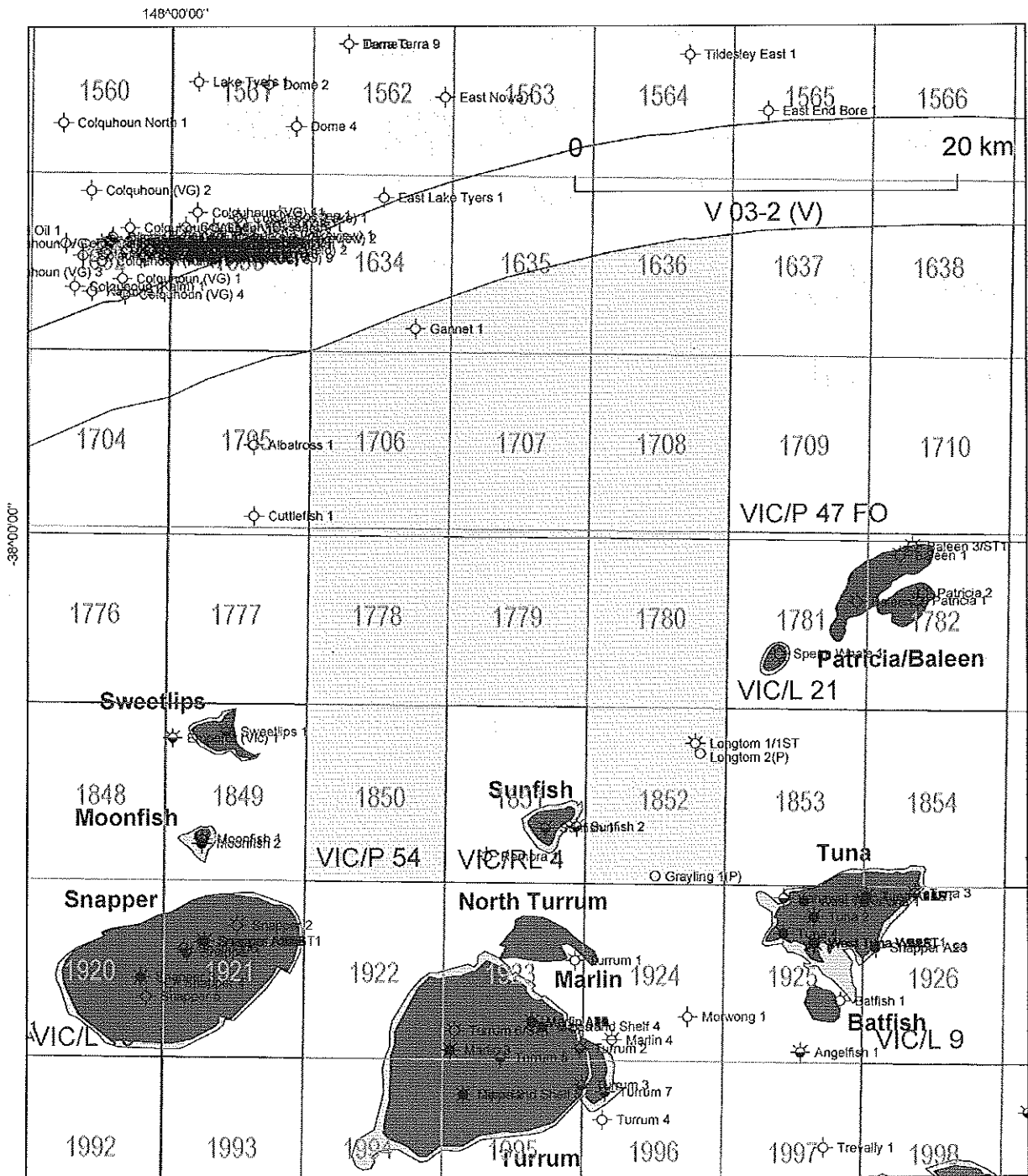
4. Enclosures

1. Map of Activity area



VIC/P54

PERMIT LOCATION MAP



5. Data Submission and Reporting Tables

Table A: Data plan for Studies and Data Reviews

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth +			
Report and Data from Study / Data Review	1 copy	1 copy	Media to comply with Guidelines Report: PDF Data: ASCII	Six months after completion of the study year	
Digital images of interpretation maps	1 copy	1 copy	TIF	Six months after completion of the study year	

Table B: Data plan for Studies on Cores and Cuttings

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth +			
Reports and data from investigation, analysis, etc of cuttings or cores	1 copy	1 copy	Media to comply with Guidelines Report: PDF Data: ASCII	One year after borrowing of material	
Annual report for exported samples for analyses*	1 copy	1 copy	Report: PDF Data: ASCII	Annually from date of export	*Required if cuttings and cores are retained overseas for more than twelve months after the approval from the Director.

Table C: 3D Seismic Reprocessing data plan

Data to be submitted	Copies required by		Format Media to comply with Guidelines	Data due date	Remarks
	State/Territory	Commonwealth +			
Raw stacked data	1 copy	DA to forward to relevant archive	SEGY	Six months after completion of the study year	if generated as part of the processing sequence. Including EBCDIC header.
Raw and final migrated data	1 copy	DA to forward to relevant archive	SEGY	Six months after completion of the study year	Including EBCDIC header. To be accompanied by a sample QC plot.
Itemised process tape listing	1 copy	1 copy	ASCII	Six months after completion of the study year	Showing tape number, survey name, line number, shotpoint range, data type
Final processed grid (bin) coordinates	1 copy	1 copy	UKOOA P6/98	Six months after completion of the study year	
Final report (reprocessing)	1 copy	1 copy	PDF	Six months after completion of the study year	
Final report (derived data))	1 copy	1 copy	PDF	Six months after completion of the study year	
Digital images of interpretation maps	1 copy	1 copy	TIF	Six months after completion of the study year	As Geo-referenced TIF images

Table D: Well data plan (Documentary Information)

Data to be submitted	Copies required by		Format	Scales required	Data due date	Remarks
	State/Territory	Commonwealth +				
Edited field and processed data for all wireline logs	One copy	DA to forward to relevant archive	Media to comply with Guidelines LIS, DLIS, LAS		Six months after completion of the well	With a verification listing of the data supplied. The data shall include full header information.
Edited field and processed data (including borehole deviation surveys) for all MWD or LWD tools	One copy	DA to forward to relevant archive	LIS, DLIS, LAS, ASCII		Six months after completion of the well	With a verification listing of the data supplied. The data shall include full header information.
Mudlogging data	One copy	DA to forward to relevant archive	LAS		Six months after completion of the well	With a header giving field names and units of measure
Processed data for velocity surveys	One copy	DA to forward to relevant archive	SEGY		Six months after completion of the well	With a verification header file
Well completion report Basic data	One copy	One copy	PDF		Six months after completion of the well	Image files included in report may also be submitted as separate Geo-referenced TIFF files.
Wireline log displays	One copy	One copy	PDF, PDS, TIF, JPEG	200/500	Six months after completion of the well	
MWD or LWD log displays	One copy	One copy	PDF, PDS, JPEG, TIF	200/500	Six months after completion of the well	
Mudlog	One copy	One copy	PDF, JPEG, TIF	500	Six months after completion of the well	
Velocity log displays	One copy	One copy	PDF	200	Six months after completion of the well	
Core, SWC photography	One copy	One copy	JPEG, TIF, PDF		Six months after completion of the well	If prepared
Well completion report Derived (interpretive) data	One copy	One copy	PDF		One year after completion of the well	Image files included in report will also be submitted as separate Geo-referenced TIFF files.
Well index sheet	One copy	One copy	PDF		One year after completion of the well	Included in the derived data volume of the well completion report
Digital petrophysical, geochemical or other analyses	One copy	One copy	ASCII		One year after completion of the well	As a tab delimited ASCII file with metadata included. Attached to well completion report.
Composite well log	One copy	One copy	PDF, TIF, JPEG, EPS	500	One year after completion of the well	Included in the derived data volume of the well completion report
Workover/re-entry report	One copy	One copy	PDF		One year after re-entry of the well	Image files included in report will also be submitted as separate Geo-referenced TIFF files.

Table D: Well data plan (Petroleum Mining Samples)

Data to be submitted	Copies required by		Format	Scales required	Data due date	Remarks
	State/Territory	Commonwealth +				
Ditch cuttings – Water Based Mud	One set	One set	Sample to comply with Guidelines		Six months after completion of the well	A minimum of 200g dry weight and thoroughly cleaned, dried and packaged with indelible printing of Well name, depth ranges.
Ditch cuttings – Synthetic Based Mud	One set	One set			Six months after completion of the well	A minimum of 200g, thoroughly washed and packaged with indelible printing of Well name, depth ranges.
Full hole cores, if cut	1/3 slab	1/3 slab			Six months after completion of the well	Slabbed vertically of which at least 1/3 each to be submitted.
Gaseous hydrocarbon samples (in an API approved safety container)	No++	Yes			Six months after completion of the well or after collection of sample	If collected, and remaining after analysis. By negotiation with AGSO.
Fluid hydrocarbon samples (in an API approved safety container)	No++	Yes	1 litre		Six months after completion of the well or after collection of sample	If collected, and remaining after analysis. By negotiation with AGSO.
Sidewall core material	Yes	No			One year after completion of the well or after completion of analysis	If recovered.
Palynological slides and residues Palaeontological material Petrological slides	Yes	No			One year after completion of the well, or after completion of analysis	If prepared. A listing of slides with required fields to be supplied in digital and hardcopy format.

++ All samples to be sent to Geoscience Australia irrespective of whether the well was drilled in State or federal acreage.