

NORTHERN TERRITORY OF AUSTRALIA

PETROLEUM AMENDMENT REGULATIONS 2023

Subordinate Legislation No. 12 of 2023

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NORTHERN TERRITORY OF AUSTRALIA

Subordinate Legislation No. 12 of 2023

Petroleum Amendment Regulations 2023

I, Hugh Crosbie Heggie, Administrator of the Northern Territory of Australia, acting with the advice of the Executive Council, make the following regulations under the *Petroleum Act 1984*.

Responsible Minister:

N. S. MANISON
Minister for Mining and Industry

H. C. HEGGIE
Administrator

Date of making: 13 June 2023

1 Title

These Regulations may be cited as the *Petroleum Amendment Regulations 2023*.

2 Commencement

These Regulations commence immediately after the commencement of section 88 of the *Petroleum Legislation Amendment Act 2022*.

3 Regulations amended

These Regulations amend the *Petroleum Regulations 2020*.

4 Regulation 2A inserted

After regulation 2

insert

2A Objects

The objects of these Regulations are:

- (a) to provide for land access agreements between interest holders and the owners or occupiers of land covered by petroleum interests, whether negotiated or determined by the Tribunal; and
- (b) to support and enhance the integrity of onshore petroleum wells by ensuring that risks to well integrity are reduced to as low as is reasonably practicable; and
- (c) to support and enhance the integrity of petroleum surface infrastructure by ensuring that risks to surface infrastructure integrity are reduced to as low as is reasonably practicable; and
- (d) to support and enhance the strategic management of petroleum production consistent with achieving optimum long-term recovery of the resource.

5 Regulation 3 amended (Interpretation)

- (1) Regulation 3(1), definition ***preliminary activities***

omit

- (2) Regulation 3(1)

insert

airborne operations means:

- (a) flying over any part of a permit area or licence area by an aircraft (including a helicopter); or
- (b) causing a drone to fly over any part of a permit area or licence area.

drilling rig means the equipment used in connection with rotary or other drilling, including a workover or well service rig, but does not include a seismic shot hole drilling rig.

field, in relation to a field management plan, means an area within a production licence area, or contiguous production licence areas, that are subject to the plan.

independent competent person, in relation to a statement or plan to be provided by an interest holder relating to a sub-surface well barrier or petroleum surface infrastructure, means a person:

- (a) who:
 - (i) is not an employee of the interest holder; and
 - (ii) is not an employee of a contractor engaged by the interest holder for the design, construction, operation or management of the well or petroleum surface infrastructure (as the case may be); and
 - (iii) has not been involved in the design, construction, operation or management of the well or petroleum surface infrastructure (as the case may be); and
- (b) who is, on account of training and experience, suitably qualified to verify (as the case requires):
 - (i) a well barrier integrity validation report; or
 - (ii) works executed during the design, construction, operation or decommissioning phases of the petroleum surface infrastructure.

induced seismicity management plan means a plan that:

- (a) is designed to mitigate against any risk of damage from induced seismicity that may occur as a result of hydraulic fracturing by:
 - (i) avoiding geohazards and faults; and
 - (ii) monitoring for changes in peak ground acceleration during and following hydraulic fracturing activities; and
- (b) sets out management strategies if peak ground acceleration thresholds are triggered.

key records, for Part 5F, see regulation 66P.

low impact activities means any of the following:

- (a) preliminary activities;
- (b) carrying out surveys including aerial surveys but not including surveys that involve:
 - (i) the clearing of any vegetation; or
 - (ii) the permanent installation of any infrastructure on land;
- (c) other activities that have no impact, or only a low impact, on land that comprise, or are directly related to, testing, monitoring or maintaining infrastructure without the use of heavy equipment;
- (d) airborne operations;
- (e) any of the following that is carried out in connection with an activity referred to in paragraphs (a) to (d):
 - (i) taking workers to or from a location on a permit area or a licence area;
 - (ii) driving a vehicle, other than a heavy vehicle, on any part of a permit area or a licence area;
 - (iii) landing a helicopter on any part of a permit area or a licence area.

preliminary activities means preliminary or preparatory activities associated with the commencement of regulated operations and have no impact, or only a low impact, on land and include any of the following:

- (a) taking water samples;
- (b) taking rock samples without the use of heavy equipment;
- (c) taking soil samples to a depth that does not exceed 4 metres.

production test means an operation, other than formation fluid sampling into a container positioned by a wireline operation, carried out on a well to recover reservoir fluids for or in connection with estimating well productivity.

reportable incident means an incident arising from activities conducted under a permit or licence as a result of which:

- (a) immediate action is required to prevent a serious incident; or
- (b) a single barrier or control remains intact so as to prevent loss of integrity in a well or petroleum surface infrastructure but no other barrier or control exists; or
- (c) equipment or systems designed to reduce the consequences of a serious incident:
 - (i) fail; or
 - (ii) are compromised; or
- (d) a designed operating envelope is exceeded.

serious incident means an incident arising from activities conducted under a permit or licence as a result of which:

- (a) a person suffers a serious injury or illness or is killed; or
- (b) an uncontrolled fire or explosion occurs; or
- (c) an uncontrolled flow of formation fluids or well fluids into the environment, or into a separate underground formation, occurs; or
- (d) there is a failure of, or damage to, barriers, infrastructure or systems that leads to, or could lead to, a loss of integrity in a well or petroleum surface infrastructure that requires emergency intervention; or

-
- (e) a blowout preventer, pressure control equipment or emergency shutdown systems are activated; or
 - (f) both primary and secondary well barriers are no longer intact;
or
 - (g) the security of natural gas supply is prejudiced or an imminent risk of prejudice to the security of natural gas supply arises.

serious injury or illness, see section 36 of the *Work Health and Safety (National Uniform Legislation) Act 2011*.

- (3) Regulation 3(1), definition ***regulated operations***

omit

preliminary

insert

low impact

6 Regulation 8 amended (Exempt activities)

Regulation 8

omit

preliminary

insert

low impact

7 Regulation 12 amended (Access agreement required before commencement of operations)

- (1) Regulation 12(1)

omit

subregulation (2)

insert

subregulations (2) and (3)

-
- (2) After regulation 12(2)

insert

- (3) This regulation does not apply to an interest holder who is acting in accordance with Part 5G.

8 Regulation 34 amended (Registration of approved access agreement)

Regulation 34(2)(d)

omit, insert

- (d) information about the term of the agreement; and

9 Regulation 39 amended (Approval and registration of variation)

- (1) After regulation 39(5)

insert

- (5A) Subregulation (5) does not apply in relation to an agreement registered under regulation 69.

- (2) After regulation 39(6)

insert

- (6A) The Minister must make a decision under subregulation (4) within 28 days after receiving the application for approval or within such longer period as the Minister may reasonably require.

- (6B) The Minister must give the parties notice of the Minister's decision on an application under this regulation within a reasonable period after the Minister has made the decision.

10 Regulation 47 amended (Requirement for access agreement)

After regulation 47(2)

insert

- (3) An interest holder is exempt from subregulation (1) if the operations are carried out under Part 5G.

11 Regulation 50 amended (CEO to be notified of certain steps and occurrences)

Regulation 50(2)

omit, insert

- (2) The notice must be given by providing the CEO with a copy of the relevant notice or application within 7 days after the notice is given or the application is made (as the case may be).

12 Regulation 52 amended (Preliminary activities – notification)

- (1) Regulation 52, heading

omit

Preliminary

insert

Low impact

- (2) Regulation 52(1), (2)(c) and (3)(a), (c) and (e)

omit (all references)

preliminary

insert

low impact

- (3) Regulation 52(1)

omit

on land

insert

in relation to land

- (4) Regulation 52(3)(a)

omit

over

insert

in relation to

(5) Regulation 52(3)(d)

omit, insert

(d) information about:

- (i) any vehicle (including an aircraft) or equipment proposed to be used for the purposes of the low impact activities; and
- (ii) in the case of airborne operations – the type of aircraft or drone to be used and the altitude or altitudes at which the aircraft or drone will be flying; and
- (iii) if a helicopter is going to land on the permit area or licence area as part of the low impact activities – where the helicopter is expected to land; and
- (iv) any infrastructure in relation to which the low impact activities are to be carried out; and
- (v) the number of people expected to be involved;

(6) After regulation 52(3)

insert

- (3A) Once an interest holder gives a notice under subregulation (2), the interest holder is authorised (without the requirement to obtain any further consent):
- (a) to carry out the low impact activities described in the notice on the day, and at or between the time or times, specified in the notice; and
 - (b) if relevant, to land a helicopter on a permit area or licence area at a place or places described in the notice.
- (3B) A helicopter that has landed on a permit area or licence area under subregulation (3A) may remain on the ground for a period that is reasonable in the circumstances.

13	Regulation 53 amended (Responsibilities associated with preliminary activities)
(1)	<p>Regulation 53, heading</p> <p><i>omit</i></p> <p>preliminary</p> <p><i>insert</i></p> <p>low impact</p>
(2)	<p>Regulation 53(1)(a) and (b)</p> <p><i>omit (all references)</i></p> <p>preliminary</p> <p><i>insert</i></p> <p>low impact</p>
14	Regulation 54 repealed (Airborne surveys – notification)
	<p>Regulation 54</p> <p><i>repeal</i></p>
15	Regulation 55 amended (Airborne surveys to minimise disturbances)
(1)	<p>Regulation 55, heading</p> <p><i>omit, insert</i></p>
55	Low impact activities to minimise disturbances to livestock and related activities
(2)	<p>Regulation 55(1)</p> <p><i>omit</i></p> <p>an airborne survey is carried out in a way the</p> <p><i>insert</i></p> <p>any low impact activities are carried out in a way that</p>

-
- (3) Regulation 55(2)
omit
the airborne survey
insert
low impact activities

16 Parts 5AA to 5AC inserted

After regulation 66
insert

Part 5AA Resource management, activity and infrastructure plans

66AA Well operations management plans

- (1) For section 61(3) of the Act, Schedule 4B prescribes information that must be included in a well operations management plan.
- (2) A well operations management plan submitted under section 61(3) of the Act must be accompanied by a well control manual for the well or wells to be managed under the plan.
- (3) If an interest holder revises a well control manual, the interest holder must provide a revised version of the manual to the Minister as soon as is reasonably practicable after the revision is made.
- (4) For the purposes of this regulation, a well control manual is a document that outlines the measures and procedures the interest holder has in place for well control during well construction or intervention operations.

66AAB Field management plans

For section 61(3) of the Act, Schedule 4C prescribes information that must be included in a field management plan.

66AAC Rate of recovery

An application for the approval of a rate of recovery must include the following:

- (a) information about the past production performance of wells and pools in the field (if production has previously occurred);

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- (b) the proposed rate of recovery with a breakdown of forecasted rates for pools and wells in the form of:
 - (i) monthly forecasts for the first 12 months of production after approval, including high and low range scenarios; and
 - (ii) annual forecasts for subsequent years of production, consistent with the projected production profile under the approved field management plan until its next scheduled review, including high and low range scenarios;
 - (c) a justification for the proposed rate of recovery, including:
 - (i) a technical discussion to demonstrate how the proposed rate can achieve the ultimate recovery set out in the field management plan and is consistent with good oilfield practice; and
 - (ii) evidence that the proposed high range scenario demonstrates the maximum achievable rate of recovery and will not impact negatively on reservoir performance or the ultimate recovery of the resource; and
 - (iii) an explanation of the proposed low range scenario, including a rationale for the predicted range of uncertainty between high and low range scenarios.

66AAD Petroleum surface infrastructure plans

- (1) A petroleum surface infrastructure plan may be submitted for one or both of the following phases:
 - (a) design and construction;
 - (b) operation and decommissioning.
- (2) For section 61(3) of the Act, Schedule 4D prescribes information that must be included in a petroleum surface infrastructure plan (as may be relevant to the stage to which the plan relates).

Part 5AB Approved plans and rate of recovery – exemptions

Division 1 Approved plans

66AAE Application for exemption

- (1) An interest holder may apply to the Minister for an approval to carry out a particular activity:
 - (a) that is not covered by an approved well operations management plan or an approved petroleum surface infrastructure plan; or
 - (b) in a manner or in a way that is inconsistent with how the activity should be carried out under an approved well operations management plan or an approved petroleum surface infrastructure plan.
- (2) An application must be in the approved form and include the following:
 - (a) a description of the activity;
 - (b) the reason or reasons for undertaking the activity;
 - (c) the outcome that is intended to be achieved by carrying out the activity;
 - (d) information that demonstrates that the activity has been considered and approved under the management of change process outlined in the relevant approved plan;
 - (e) information about how any risks associated with the activity have been identified and evaluated and how any risks are to be eliminated or controlled;
 - (f) any other information required by the form.
- (3) An application must be accompanied by the prescribed fee.
- (4) An interest holder must also provide the Minister with any other information requested by the Minister within the time specified in the request.

66AAF Approval

- (1) The Minister must not approve an application under this Division unless satisfied that:
 - (a) the interest holder has followed the management of change process outlined in the relevant approved plan in relation to the well or surface infrastructure to which the activity relates; and
 - (b) any risks associated with the activity have been eliminated or reduced to as low as is reasonably practicable and that any risk that remains is acceptable; and
 - (c) the activity is expected to be a one-off occurrence or is the first time that the activity has been identified or considered; and
 - (d) it is not feasible or warranted to require a review of the relevant approved plan to incorporate or address the activity before it is undertaken.
- (2) The Minister may on receipt of an application and any additional information provided by the interest holder under this Division:
 - (a) approve the application; or
 - (b) if the Minister is not satisfied of the matters mentioned in subregulation (1) – refuse the application.
- (3) The Minister must make a decision under subregulation (2) within 21 days from when the application was made together with any period the interest holder takes to comply with any request under regulation 66AAE(4).

Division 2 Rate of recovery**66AAG Application for exemption**

- (1) An interest holder may apply to the Minister for an approval to produce petroleum for a limited period that is inconsistent with an approved rate of recovery.
- (2) An application for the approval of the Minister must be in the approved form and include:
 - (a) the reason or reasons for seeking a change to the rate; and
 - (b) the period for which the approval is being sought; and

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- (c) any other information required by the form.
 - (3) An interest holder must also provide the Minister with any other information requested by the Minister within the time specified in the request.
 - (4) The Minister must make a decision on an application within a reasonable period.

Division 3 Common provisions

66AAH Common provisions

- (1) An approval under this Part is subject to any conditions specified by the Minister on the approval.
- (2) An approval under this Part is for a period determined by the Minister.
- (3) The Minister may, on the application of the interest holder, extend the period of an approval under this Part.
- (4) If the Minister determines to refuse to grant an approval under this Part, the Minister must, as soon as practicable, give the applicant a notice of the determination stating the reasons for the determination.

Part 5AC Activity notifications

66AAJ Activities requiring 21 days notice

- (1) An interest holder must notify the Minister before commencing any of the following well activities:
 - (a) a well activity that involves drilling formation or a new well pathway;
 - (b) a well activity that involves running tubular goods into a well or recovering tubular goods from a well;
 - (c) a well activity that involves the installation, replacement, modification or removal of a Christmas tree, tubing spool, casing spool or casing head from a well;
 - (d) a well activity that involves the installation or removal of a Christmas tree saver for use with downhole operations or well testing;

-
- (e) a well activity that involves the installation, replacement, modification or removal of a sub-surface well barrier;
 - (f) a well activity that involves perforating to gain access to a new formation;
 - (g) stimulation operations intended to restore or enhance recovery by improving the flow of hydrocarbons from the drainage area into the well bore, including hydraulic fracturing operations;
 - (h) production testing for exploration or appraisal purposes;
 - (i) well decommissioning.
- (2) An interest holder must notify the Minister before commencing any of the following petroleum surface infrastructure activities:
- (a) site construction and commissioning of a new petroleum processing facility;
 - (b) the installation, replacement, modification, repair or removal of shutdown systems;
 - (c) activities which increase or decrease the producing capacity of petroleum surface infrastructure;
 - (d) starting up the operation of a petroleum processing facility;
 - (e) temporarily shutting down the operation of all or part of a petroleum processing facility;
 - (f) decommissioning all or part of petroleum surface infrastructure.
- (3) A notice under this regulation must be given to the Minister at least 21 days before the commencement of the activity or within a shorter period allowed by the Minister.

66AAK Related information

- (1) This regulation relates to a notice under regulation 66AAJ.
- (2) The notice must be accompanied by an overview of the work program for the activity to which the notice relates.
- (3) A notice that relates to the commencement of the drilling of a new well must be accompanied by a well plan summary that sets out the planned location and construction of the well relative to structural geological elements and summarises the potential risks posed by

known geological hazards.

- (4) The Minister must ensure that a copy of a well plan summary provided under subregulation (3) is published on the Agency's website.

66AAL Common provisions

- (1) A notification to the Minister under this Part must be in the approved form and include:
- (a) a reference that identifies the approved plan under which the activity is to be carried out; and
 - (b) a description of the well or petroleum surface infrastructure facility, including the proposed or existing name, number and location of the well or facility; and
 - (c) the name and contact details of the person in charge of the activity (who may be a contractor carrying out the activity on behalf of the interest holder); and
 - (d) a description of the activity, including its objective, key elements, proposed milestones and, if relevant, programmed depths; and
 - (e) a list of any documents that have been prepared for the management, control or operation of the activity; and
 - (f) in the case of a well activity – an assessment of the current well barrier integrity status and whether the well barrier integrity status will be altered by the activity; and
 - (g) a timetable for carrying out and completing the activity; and
 - (h) any other information required by the form.
- (2) An interest holder must also provide the Minister with any other information requested by the Minister:
- (a) within the time specified in the request; or
 - (b) before, during the time when, or after, the activity is undertaken, as specified in the request.

66AAM Offences relating to notification

- (1) A person commits an offence if the person is required to give a notification to the Minister under this Part and the person contravenes that requirement.

Maximum penalty: 200 penalty units.

- (2) An offence against subregulation (1) is an offence of strict liability.
- (3) A person is exempt from an offence against subregulation (1) if the person is acting in an emergency in which there is a likelihood of any of the following:
 - (a) injury;
 - (b) significant discharge of fluids from a well;
 - (c) damage to:
 - (i) an underground formation that contains petroleum; or
 - (ii) an aquifer; or
 - (iii) any other part of the environment;
 - (d) significant damage to a well or surface infrastructure.
- (4) A person is exempt from an offence against subregulation (1) that relates to a failure to give a notification about an activity in accordance with regulation 66AAJ(3) or 66AAK(2) if:
 - (a) it was reasonable and consistent with good oilfield practice to carry out the activity without notice due to circumstances existing at the time; and
 - (b) the person notifies the Minister as soon as reasonably practicable after carrying out the activity; and
 - (c) the notification to the Minister is in the approved form.
- (5) A person commits an offence if the person is requested by the Minister to provide information under this Part and the person fails to provide the information in accordance with the request.

Maximum penalty: 200 penalty units.

- (6) An offence against subregulation (5) is an offence of strict liability.

17 Regulations 66AAN to 66AAW inserted

Before regulation 66A in Part 5A

insert

66AAN Annual reports

For section 61H(4) of the Act, Schedule 4E prescribes the information that must be included in an annual report (to the extent that is relevant to the petroleum interest).

66AAP Survey reports

For section 61J(6)(a) of the Act, Schedule 4F prescribes the information that must be included in a survey report.

66AAQ Geoscientific study and reprocessing reports

For section 61J(3) of the Act, Schedule 4G prescribes the information that must be included in a report under that subsection.

66AAR Well barrier integrity validation reports

- (1) This regulation applies in relation to an interest holder if the interest holder:
 - (a) completes a new well; or
 - (b) installs, replaces, modifies, removes or revalidates a sub-surface well barrier in a previously completed well; or
 - (c) acquires or receives evidence that a sub-surface well barrier has been degraded.
- (2) The interest holder must, within 30 days after this regulation applies, submit to the Minister a report relating to the integrity of the barrier.
- (3) The report must:
 - (a) be in the approved form and include the information set out in Schedule 4H; and
 - (b) comply with any guidelines published by the Minister for the purposes of this regulation; and
 - (c) be accompanied by a fully labelled well barrier diagram suitable for publication that contains relevant well and stratigraphy information; and

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- (d) be accompanied by a statement signed by an independent competent person that confirms the processes undertaken to determine the integrity of the barrier are valid and the well barrier diagram is accurate; and
 - (e) be accompanied by evidence that the person who has signed the statement is an independent competent person.
- (4) The Minister must ensure that a well barrier diagram provided under subregulation (3) is published on the Agency's website.
 - (5) A person commits an offence if the person is required to give a report to the Minister under this regulation and the person contravenes that requirement.

Maximum penalty: 200 penalty units.

- (6) An offence against subregulation (5) is an offence of strict liability.

66AAS Daily well activity reports

- (1) An interest holder who carries out an activity that has been notified under regulation 66AAJ(1) must submit a report to the Minister for each day on which the activity is carried out.
- (2) The report must be in the approved form and include the information set out in Schedule 4J to the extent relevant to the activity.
- (3) The report must be provided to the Minister by 12 noon on the day immediately following the day to which the report relates.
- (4) A person commits an offence if the person is required to give a report to the Minister under this regulation and the person contravenes that requirement.

Maximum penalty: 200 penalty units.

- (5) An offence against subregulation (4) is an offence of strict liability.

66AAT Monthly production reports

- (1) An interest holder who conducts activities under an approved field management plan or for the recovery of petroleum on an appraisal basis in any month must submit a production report to the Minister in relation to that month.
- (2) The report must be in the approved form and include the information set out in Schedule 4K.

-
- (3) The report must be provided to the Minister before the end of the 15th day of the month immediately following the month to which the report relates.
 - (4) The Minister may release information in a report under this regulation at any time after 6 months after the month to which the report relates.
 - (5) A person commits an offence if the person is required to give a report to the Minister under this regulation and the person contravenes that requirement.

Maximum penalty: 200 penalty units.

- (6) An offence against subregulation (5) is an offence of strict liability.

66AAU Production test results

- (1) An interest holder who conducts well testing activities for exploration or appraisal purposes in any month without an approval under section 57AAA of the Act must submit a production test report to the Minister in relation to that month.
- (2) The report must be in the approved form and include the information set out in Schedule 4L.
- (3) The report must be provided to the Minister before the end of the 15th day of the month immediately following the month to which the report relates.
- (4) The Minister must not release information provided to the Minister in a report under this regulation unless the interest holder has published or released the information to the general public, including the Australian Securities Exchange.
- (5) A person commits an offence if the person is required to give a report to the Minister under this regulation and the person contravenes that requirement.

Maximum penalty: 200 penalty units.

- (6) An offence against subregulation (5) is an offence of strict liability.

66AAV Final well activity reports

- (1) An interest holder who completes an activity that has been notified under regulation 66AAJ(1) (other than a well activity that involves drilling formation or a new well pathway) must submit a final well activity report to the Minister in relation to that activity.

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- (2) The report must be in the approved form and include the information set out in Schedule 4M (to the extent relevant to the activity).
 - (3) The report must be provided to the Minister within 3 months from the date on which the activity is completed.
 - (4) A person commits an offence if the person is required to give a report to the Minister under this regulation and the person contravenes that requirement.

Maximum penalty: 200 penalty units.

- (5) An offence against subregulation (4) is an offence of strict liability.
- (6) A report is not required under this regulation to the extent that it relates to a matter that is to be covered by a well completion report under regulation 66AAW.

66AAW Well completion reports

For section 61K(3) of the Act:

- (a) Schedule 4N prescribes the information that must be included in an initial well completion report; and
- (b) Schedule 4P prescribes the information that must be included in a final well completion report.

66AAX Discovery evaluation and revised estimates reports

- (1) A report to the Minister under section 64(1)(b) of the Act must:
 - (a) include the information set out in Schedule 4Q; and
 - (b) be accompanied by a copy of the notification form provided to the Minister under section 64(1)(a) of the Act.
- (2) If a permittee or licensee undertakes an activity or conducts a study that results in a revised estimate of petroleum in a particular pool, the permittee or licensee must provide the Minister with a revised report.
- (3) A report under subregulation (2) must be in the approved form and include the information set out in Schedule 4R.
- (4) A report under subregulation (2) must be provided to the Minister as soon as practicable after the decision is made to make the revision and in any case before any announcement is made to the Australian Securities Exchange or to the general public.

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- (5) A person commits an offence if the person is required to give a report to the Minister under subregulation (2) and the person contravenes that requirement.

Maximum penalty: 200 penalty units.

- (6) An offence against subregulation (5) is an offence of strict liability.

18 Parts 5E to 5H inserted

After regulation 66J

insert

Part 5E Incident reporting

66K Reporting of serious incidents

- (1) A permittee or licensee must report a serious incident to the Minister:
- (a) by telephone as soon as practicable (and in any case within 2 hours) after becoming aware of its occurrence; and
 - (b) by providing a written notification by email within 24 hours after becoming aware of its occurrence.
- (2) A notification under subregulation (1)(b) must comply with the requirements of regulation 66M.
- (3) If a serious incident relates to the integrity of a well or surface infrastructure, the permittee or licensee must provide a report to the Minister within 1 month after its occurrence (or within a longer period allowed by the Minister).
- (4) A report under subregulation (3) must be a report of an investigation carried out in relation to the serious incident and must include:
- (a) an analysis to determine the cause of the incident; and
 - (b) information on the actions taken to restore the integrity of the well or surface infrastructure; and
 - (c) details of the action taken to prevent a recurrence of the incident.
- (5) A report under subregulation (3) must be accompanied by a copy of all documents relevant to the investigation.

66L Reportable incidents

- (1) A permittee or licensee must report a reportable incident to the Minister by providing a written notification by email within 72 hours after becoming aware of its occurrence.
- (2) A notification under subregulation (1) must comply with the requirements of regulation 66M.

66M Common provisions

- (1) A written notification of a serious incident or a reportable incident must be in the approved form and include the following information:
 - (a) the name and business address of the permittee or licensee;
 - (b) the name and telephone number of a person who can be contacted about the incident;
 - (c) the time and date of the occurrence of the incident;
 - (d) the place where the incident occurred, using appropriate coordinates or distances from significant topographical features;
 - (e) in a case involving spillage or petroleum release – the approximate quantity of the spillage or petroleum released;
 - (f) the approximate size of any area affected by the incident, if relevant;
 - (g) the nature and extent of any injury to a person and, if death has occurred, the cause and place of death;
 - (h) the steps that have been taken to prevent, control, minimise or address any damage to any area affected by the incident;
 - (i) any other information required by the form.
- (2) A permittee or licensee must also provide the Minister with any other information requested by the Minister within the time specified in the request.
- (3) A permittee or licensee who is required to give a report or notification about an incident to the Minister under this Part must keep a record of the incident, and a copy of any report provided to the Minister, for at least 5 years after the occurrence of the incident.

66N Offences relating to reporting and record retention

- (1) A person commits an offence if the person is required to give a report or notification, or any other information, to the Minister under this Part and the person contravenes that requirement.

Maximum penalty: 200 penalty units.

- (2) A person commits an offence if the person is required to keep a record or report under regulation 66M(3) and the person contravenes that requirement.

Maximum penalty: 200 penalty units.

- (3) An offence against subregulation (1) or (2) is an offence of strict liability.

Part 5F Records

66P Definition

In this Part:

key records means records created by an interest holder in connection with any inspection, survey, testing, assessment or other activity that the interest holder has indicated will be undertaken:

- (a) under or for the purposes of an approved well operations management plan, field management plan or petroleum surface infrastructure plan; or
- (b) under or as a result of an approval under Part 5AB; or
- (c) under an approval to recover petroleum on an appraisal basis under the Act.

66Q Records to be kept

- (1) An interest holder must keep key records:
- (a) in Australia or in a way in which they are easily accessible in Australia; and
 - (b) for 5 years following the date on which the petroleum interest to which they relate expires or is surrendered or cancelled; and
 - (c) in a manner that makes retrieval of the record reasonably practicable.

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- (2) An interest holder commits an offence if the interest holder fails to keep key records in accordance with the requirements of subregulation (1).

Maximum penalty: 100 penalty units.

- (3) An offence against subregulation (2) is an offence of strict liability.

66R Making records available

- (1) The Minister or an inspector may direct an interest holder to make available copies of key records.

- (2) The copies must be made available:

(a) if a serious incident occurs – as soon as possible after the occurrence of the incident; or

(b) otherwise – during normal business hours.

- (3) The copies must be available (including by means of electronic transmission):

(a) at the Agency's address; or

(b) if agreed between the interest holder and the person making the request – at any other place.

- (4) An interest holder commits an offence if:

(a) the interest holder is given a direction under subregulation (1); and

(b) the interest holder contravenes the direction.

Maximum penalty: 100 penalty units.

- (5) An offence against subregulation (4) is an offence of strict liability.

Part 5G Right of access to comply with direction

66S Application of Part

This Part applies in relation to a person if the person is given a direction under any of the following provisions of the Act:

(a) section 57A(12);

(b) section 71(1);

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- (c) section 77(1);
 - (d) section 89L;
 - (e) section 89N;
 - (f) section 89W.

66T Right of access

- (1) Subject to this regulation, the person may enter the land to which the direction relates:
 - (a) to take action to comply with the direction; or
 - (b) to establish, maintain or inspect, or to remove, any monitoring or other equipment associated with the surrender, cancellation or expiry of an access authority, exploration permit or licence.
- (2) A person who is intending to enter land under subregulation (1) must notify each designated person for the land of the person's intention to enter the land in accordance with subregulation (3).
- (3) The notification must:
 - (a) be in the approved form; and
 - (b) include the information specified in subregulation (4); and
 - (c) be given at least 7 days before access is required unless the person reasonably requires access within a shorter period in which case the notice must be given within a reasonable period before entering the land.
- (4) For subregulation (3)(b), the following information is specified:
 - (a) a plan and description of the area of land in relation to which access is required;
 - (b) information about the direction given to the person under a provision mentioned in regulation 66S;
 - (c) a description of the work or activities that are to be carried out;
 - (d) information about:
 - (i) any vehicle (including aircraft) or equipment proposed to be used on the land; and
 - (ii) if a helicopter is going to land on the land – where the helicopter is expected to land; and

-
- (iii) the number of people expected to be involved;
 - (e) information about when the work or activities are proposed to be carried out and their expected duration;
 - (f) the contact details of the person giving the notice.
- (5) Once a person gives a notice under subregulation (3), the person is authorised (without the requirement to obtain any further approval under these Regulations or consent):
- (a) to enter the land in accordance with the notice on the day and at or between the times specified under subregulation (4)(e); and
 - (b) to carry out the work or activities described in the notice.
- (6) The person may only remain on the land for a period that is reasonable in the circumstances.
- (7) The person must ensure that any work or activities are carried out in a way that minimises the disturbance of the lawful rights and activities of an owner or occupier of the land.

66U Right may be exercised by employee, agent or contractor

A right of entry to land conferred on a person under this Part may be exercised by an employee, agent or contractor of the person.

66V CEO to be given copy of notice

- (1) A person must give notice to the CEO, in accordance with subregulation (2), when the person gives a notice to a designated person under this Part.
- (2) The notice must be given by providing the CEO with a copy of the relevant notice within 7 days after the notice is given to the designated person.
- (3) A person commits an offence if the person does not give notice in accordance with this regulation.

Maximum penalty: 50 penalty units.

- (4) An offence against subregulation (3) is an offence of strict liability.

66W Compensation

- (1) This regulation applies to a person who enters land under this Part if the person:
 - (a) is not the holder of a petroleum interest; and
 - (b) is not entering land as an employee, agent or contractor of the holder of a petroleum interest.
- (2) An owner or occupier of land who incurs loss or damage because of action taken by the person is entitled to reasonable compensation for that loss or damage.
- (3) The compensation is recoverable as a debt in a court of competent jurisdiction.
- (4) No action lies against the Territory in connection with an entitlement to compensation under this regulation.

66X Entry with consent

Nothing in this Part prevents a person entering land and carrying out any work or activity with the consent of the owner or occupier of the land.

Part 5H Administration**66Y Release of samples by Minister**

For section 61L(9) of the Act, the Minister may release a sample, or a part of a sample:

- (a) for a sample obtained from a well at the time of drilling – when the final well completion report is released by the Minister under section 61K(9) of the Act, or at a later time; or
- (b) for a sample obtained from a well after rig release – at any time after the final well completion report is released by the Minister under section 61K(9) of the Act; or
- (c) at any time:
 - (i) with the written consent of the permittee or licensee; or
 - (ii) after the permittee or licensee has published details of the sample.

66Z Release of information by Minister

For section 62A(8)(d) of the Act, the Minister is authorised to release information if it:

- (a) was acquired under Part 5E; or
- (b) is being released with the consent of the person who provided the information; or
- (c) has already been published by the person who provided the information, or by another person.

66ZA Surrender

For section 73(5)(c) of the Act, the following is prescribed:

- (a) a statement estimating the remaining petroleum resources present in each petroleum pool in the proposed surrender area, including the data, assumptions and methodologies on which those estimates are based;
- (b) a list of all reports and samples that are still to be submitted under Part III, Division 1, Subdivision 3 of the Act.

66ZB Electronic processes

- (1) For section 117K of the Act, a direction or notice to be given or provided to a person under the Act or these Regulations may be given or provided by sending it to the recipient's email address as an attachment to an email.
- (2) Subject to evidence to the contrary, a direction or notice sent as mentioned in subregulation (1) is taken to be given or provided to the recipient when it is sent to the recipient's email address.

19 Part 6, Division 3 inserted

After regulation 71

insert

Division 3 Application of Act to leases granted under repealed Act**72 Application of provisions of Act**

For section 119(14)(a) of the Act, the following provisions of the Act extend to and in relation to a lease referred to in section 119(1) of the Act:

- (a) section 6A;
- (b) section 15A;
- (c) section 57AAE;
- (d) section 57ABA;
- (e) section 57AB;
- (f) Part III, Division 1, Subdivisions 2 and 3;
- (g) section 64;
- (h) section 69A;
- (i) section 75;
- (j) Part III, Divisions 6, 7, 8 and 9;
- (k) Parts V and VA;
- (l) Parts VC, VD, VE and VF;
- (m) Part VI, other than sections 118 and 119.

Note for paragraph (a)

Schedule 1 to the Act already applies the principles of ecologically sustainable development to decisions under section 119 of the Act to renew a lease and decisions under section 119(2B), (2C) and (6) of the Act.

Note for paragraph (c)

Schedule 2 to the Act already allows a person to seek judicial review of decisions under section 119(2AA) and (2F) of the Act.

73 Application of regulations

For section 119(14)(b) of the Act, the following regulations extend to and in relation to a lease referred to in section 119(1) of the Act:

- (a) these Regulations;
- (b) the *Petroleum (Environment) Regulations 2016*;
- (c) the *Petroleum (Transitional) Regulations 2023*.

20 Schedule 1 amended (Fees and amounts for Act and Regulations)

- (1) Schedule 1, entry for section 61(2)

omit

- (2) Schedule 1

insert (in numerical order)

regulation 66AAE(3)	Application for approval of activity	985
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21 Schedule 4 amended (Infringement notice offences and prescribed amounts)

- (1) Schedule 4

omit

54

insert

66V

- (2) Schedule 4

omit

regulations 47, 48, 49 and 53	5	25
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insert

regulations 47, 48, 49, 53, 66AAM(1) and (5), 66AAR, 66AAS, 66AAT, 66AAU, 66AAV,	5	25
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66AAX and 66N		
regulations 66Q and 66R	3	15

22 Schedules 4B to 4R inserted

After Schedule 4A

insert

Schedule 4B Well operations management plans

regulation 66AA

- 1 A description of the well, including its location, status and objectives, and the criteria to determine:
 - (a) the wells that can be managed under the well operations management plan; and
 - (b) the complexity level of the well operations management plan under Schedule 1A.
- 2 A description of the well integrity management system which informs the plan, including advice on how the system is taken to comply with International Standard ISO 16530-1:2017 Petroleum and natural gas industries – Well integrity – Part 1: Life cycle governance.
- 3 Information about the permittee's or licensee's approach to risk management, including a description of its processes for hazard and risk identification, risk analysis and risk evaluation during the life of the well.
- 4 A description of the permittee's or licensee's management of change process.
- 5 A description of the organisational structure of the permittee or licensee as it relates to the management of the well throughout its life cycle, including the responsibilities and competencies of key roles.
- 6 A description of the basis of design for the well.
- 7 A description of the well design, including well barrier schematics.

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- 8 A description of the activities (including contingent activities as applicable) that will be conducted in each of the following well life cycle phases:
 - (a) construction phase;
 - (b) operational phase;
 - (c) intervention phase;
 - (d) decommissioning phase;
 - (e) decommissioned phase.
 - 9 A copy of the risk register that records follow up and close out actions for all identified hazards and risks.
 - 10 A description of:
 - (a) the control measures that will be in place to ensure that risks to the integrity of the well are reduced to as low as is reasonably practicable throughout the life cycle of the well; and
 - (b) the performance standards for those control measures; and
 - (c) the measurement criteria that will be used to determine whether the performance standards are being met.
 - 11 A description of:
 - (a) the performance outcomes against which the performance of the permittee or licensee in maintaining the integrity of the well is to be measured; and
 - (b) the measurement criteria that will be used to determine whether the performance outcomes are being met.
 - 12 A description of the monitoring, integrity assurance, record keeping, audit and continuous improvement processes that will be implemented to ensure and demonstrate how performance standards are being met over the life cycle of the well, including after decommissioning.
 - 13 A description of the scenarios in which a well will be shut-in or suspended, including the length of time it would remain in this state until it is put into operation or decommissioned.
 - 14 If the well is to be subject to hydraulic fracturing operations – an induced seismicity management plan.

Schedule 4C Field management plans

regulation 66AAB

- 1 Evidence and data to demonstrate that the field contains petroleum, including details of the structure, extent and location of each discovered petroleum pool in the field.
- 2 Estimates of the volumes of petroleum present in the discovered petroleum pools that comply with the Petroleum Resources Management System published by the Society of Petroleum Engineers (as in force from time to time), including the data, assumptions and methodologies on which those estimates are based.
- 3 Information relating to the following:
 - (a) other potential petroleum pools in the field;
 - (b) the licensee's plans (if any) to explore further for petroleum pools in the field;
 - (c) how potential petroleum pools of commercial quantity can be incorporated into the development of the licence area.
- 4 The proposed development strategy for the field and the management of petroleum pools that includes plans for the optimum long-term recovery of petroleum under the licence, including the following:
 - (a) a projected production profile that includes high and low range scenarios;
 - (b) the estimated number and types of wells, including a conceptual map indicating their expected location relative to the petroleum pools and petroleum surface infrastructure.
- 5 A description of the process that the licensee undertook to prepare the field management plan, including:
 - (a) the development options that were considered, including the factors that have influenced licensee's proposals for the development of the field; and
 - (b) information about the modelling for each development option considered by the licensee; and
 - (c) a markets and sales outlook for petroleum recovered from the field.

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- 6 Information to demonstrate how the licensee proposes to maximise economic recovery of petroleum, including the following:
 - (a) reservoir modelling of the projected production profile for the life cycle of the field;
 - (b) the estimated ultimate recovery from each reservoir in the field;
 - (c) the recovery factor of petroleum from each petroleum pool in the field.
 - 7 The estimated timing for:
 - (a) the development of wells to be used for production, monitoring or injection; and
 - (b) decommissioning of wells, including suspended wells, that are not required for the development or management of the field; and
 - (c) estimated dates for the cessation of production and field closure and a description of the plans for the closure of the field.
 - 8 Information about the licensee's operations or proposals relating to the following:
 - (a) the enhanced recovery or recycling of petroleum;
 - (b) the processing, storage, use and disposal of petroleum;
 - (c) proposals to inject water or treatment material into any underground formation.
 - 9 Details of any aquifers that might contribute to the recovery of petroleum.
 - 10 A segregation of zones policy and details of any petroleum production by a well that is to be from more than one petroleum pool.
 - 11 Details of the equipment and procedures used to determine the quantity and composition of petroleum and water, including information as to the following:
 - (a) the Australian or international standards that will apply to measuring devices;

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- (b) the frequency of validation testing and certification of measuring devices to verify their accuracy;
 - (c) the validation and certification records for measuring devices.
- 12 Information about how the licensee will implement and ensure ongoing compliance with the approved field management plan.
 - 13 Information about the licensee's approach to risk management, including a description of the licensee's processes for risk identification, risk analysis and risk evaluation.
 - 14 A description of the licensee's management of change process.
 - 15 A description of the organisational structure of the licensee as it relates to the management of petroleum reservoirs, including the responsibilities and competencies of key roles.
 - 16 A description of the monitoring, integrity assurance, record keeping, audit and continuous improvement processes that will be implemented to ensure and demonstrate how the licensee will maximise economic recovery of petroleum over the life of the field.
 - 17 A list of the codes, standards and specifications that will be applied in relation to any aspect of the field management plan.

Schedule 4D Petroleum surface infrastructure plans

regulation 66AAD

- 1 An introduction relating to the petroleum surface infrastructure that is to be constructed, operated or decommissioned on the licence area, including:
 - (a) a description of the petroleum surface infrastructure relative to the approved well operations management plan and approved field management plan; and
 - (b) a map showing the existing or proposed location of petroleum surface infrastructure.
- 2 A description of the licensee's asset management plan that informs the petroleum surface infrastructure plan.
- 3 Information about the licensee's approach to risk management, including a description of its processes for hazard and risk identification, risk analysis and risk evaluation.
- 4 A description of the licensee's management of change process.

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- 5 A description of the organisational structure of the licensee as it relates to the management of petroleum surface infrastructure, including the responsibilities and competencies of key roles.
 - 6 The basis of the design of the petroleum surface infrastructure.
 - 7 A description of the petroleum surface infrastructure design, including a process flow diagram.
 - 8 The estimated timing for:
 - (a) site construction and commissioning of new petroleum processing facilities; and
 - (b) starting up the operation of any petroleum processing facility; and;
 - (c) the decommissioning of petroleum surface infrastructure at the end of its life cycle.
 - 9 A description of the activities (including contingent activities as applicable) that will be conducted in each of the following petroleum surface infrastructure life cycle phases:
 - (a) the construction phase;
 - (b) the operational phase;
 - (c) the decommissioning phase.
 - 10 A plan for the independent validation by a competent person of works to be executed during the design, construction, operation and decommissioning phases.
 - 11 A list of the codes, standards and specifications that will be applied in relation to any part or aspect of the petroleum surface infrastructure's life cycle phases.
 - 12 A copy of the risk register that records follow up and close out actions for all identified hazards and risks.
 - 13 A description of:
 - (a) the control measures that will be in place to ensure that risks to the integrity of the petroleum surface infrastructure are reduced to as low as is reasonably practicable throughout the petroleum surface infrastructure's life cycle; and
 - (b) the performance standards for those control measures; and

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- (c) the measurement criteria that will be used to determine whether the performance standards are being met.

14 A description of:

- (a) the performance outcomes against which the performance of the licensee in maintaining the integrity of the petroleum surface infrastructure is to be measured; and
- (b) the measurement criteria that will be used to determine whether the performance outcomes are being met.

15 A description of the monitoring, integrity assurance, record keeping, audit and continuous improvement processes that will be implemented to ensure and demonstrate how performance standards are being met over the life cycle of the petroleum surface infrastructure.

16 A description of the measures and arrangements that will be used to regain control of the petroleum surface infrastructure if there is a loss of integrity.

Schedule 4E Annual reports

regulation 66AAN

1 A report on the interest holder's compliance, during the reporting period, with:

- (a) the Act; and
- (b) these Regulations; and
- (c) the conditions to which the petroleum interest is subject; and
- (d) any direction or notice issued under the Act or these Regulations, other than a direction or notice issued by the Environment Minister, the Environment CEO or an inspector appointed by the Environment CEO.

2 Details about actual expenditure compared to expenditure commitments for the reporting period, including information about whether the expenditure was within the Territory or related to persons or companies located outside the Territory.

3 A report on well operations and activities undertaken on the title area during the reporting period, including an assessment of the interest holder's compliance with any approved well operations management plan.

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- 4 A report on the operational status of each well on the title area, including details of the well barrier status and any associated requirements to manage or address any loss of integrity.
 - 5 A report on the recovery of petroleum on an appraisal basis undertaken on the title area during the reporting period, including an assessment of the interest holder's compliance with an approval to recover petroleum on an appraisal basis.
 - 6 A report on surface infrastructure operations and activities undertaken on the title area during the reporting period, including an assessment of the interest holder's compliance with any approved petroleum surface infrastructure plan.
 - 7 A report on the interest holder's compliance with any approved field management plan during the reporting period, including a declaration that the field management plan still represents the interest holder's development strategy for the petroleum pool or pools in the title area.
 - 8 In relation to rate of recovery:
 - (a) a report on actual rate of recovery for all producing wells and pools in the reporting period; and
 - (b) an explanation of any deviation outside the high and low range scenarios; and
 - (c) demonstration that the approved rate of recovery remains current, with a monthly forecast for the ensuing year, including high and low range scenarios.
 - 9 A report on any approved exemptions.
 - 10 A list of the reports submitted to the Minister under the Act or these Regulations during the reporting period including the dates on which each report was submitted.

Schedule 4F Survey reports

regulation 66AAP

1 Weekly survey reports

- (1) The progress of the survey, including the number of kilometres completed during the week (if applicable) and the type of samples acquired during the week.

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- (2) If the survey has been completed during the week to which the report relates, the total number of kilometres completed over the course of the survey (if applicable) and a complete list of the types of samples acquired.
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2 Downhole survey reports

A report of the survey, including each log at each scale run in the survey and the records made for the purposes of the survey.

3 Basic survey reports

Acquisition report	(1)	The name and location of the survey, including a location map and datum used.
	(2)	The petroleum interest to which the report relates and the name of the interest holder and operator.
	(3)	The start and end dates of acquisition.
	(4)	The name of the contractor used to conduct the survey.
	(5)	The final line kilometres recorded and, in the case of a 3D seismic survey, the full fold area acquired.
	(6)	The number and length of the lines and the number of data acquisition points along each line.
	(7)	The geometry of the acquisition parameters.
	(8)	Particulars of the system and equipment used for data acquisition, positioning and navigation.
	(9)	The results of systems tests, calibrations and diagnostics.
	(10)	A summary of data acquisition, including any data quality issues and recommendations (if any) relating to processing.
	(11)	The results of any initial data processing in the field.
	(12)	An itemised field tape listing showing data tape number, survey name, line number, shot point or data point range and data type.
	(13)	A detailed list of datasets and products submitted with the report.

	(14)	A copy of all weekly survey reports previously submitted in relation to the survey.
Processing report	(1)	The name and location of the survey, including a location map and datum used.
	(2)	The petroleum interest to which the report relates and the name of the interest holder and operator.
	(3)	The start and end date of processing.
	(4)	The name of the contractor used to conduct the processing (if applicable).
	(5)	The purpose of the processing.
	(6)	A summary of the data acquisition process and parameters.
	(7)	Details of all processing sequences and techniques.
	(8)	In the case of a seismic survey – a sample Extended Binary Coded Decimal Interchange Code (EBCDIC) header for the final data set.
	(9)	A list of processed data.
	(10)	In the case of a 3D seismic survey – a description of the position of the survey polygon and a calculation of the 3 dimension line numbering convention.
	(11)	A summary of the processing, including any issues with data quality and recommendations (if any) for further processing.
	(12)	A detailed list of datasets and products submitted with the report.

4 Basic survey data

Survey other than a seismic survey	Acquisition and processed data as follows:
	(a) field support data and navigation or location data for lines and data acquisition points;
	(b) raw and processed data and analytical results;
	(c) gridded data;
	(d) final processed images.

2D seismic survey	(1)	Navigation data in the form of x, y and z coordinates for each shot and receiver point.
	(2)	Seismic field data.
	(3)	Observers logs and associated support data including uphole data and itemised field tape listing, including the following: (a) tape number; (b) survey name; (c) line number; (d) shot point range; (e) common depth point; (f) data type.
	(4)	Raw and final stacked data, including near/mid/far sub-stacks if these have been generated.
	(5)	Raw and final migrated data, including Pre Stack Time Migration (PSTM), Pre Stack Depth Migration (PSDM) and near/mid/far sub-stacks if these have been generated.
	(6)	Final processed navigation, elevation and bathymetry data.
	(7)	Shot point to common depth point (CDP) relationship.
	(8)	Data for stacked and migrated velocities, including line number, shot point and time versus root mean square (RMS) velocity pair.
3D seismic survey	(1)	The same data required for a 2D survey.
	(2)	Final navigation data in the form of: (a) final processed (grid) bin coordinates; and (b) polygonal position data (outline of full fold area).
	(3)	Data for both stacked and migrated velocities, including:

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- (a) bin number; and
 - (b) time versus root mean square (RMS) velocity.
- (4) If required – 2D data subset.
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5 Final survey reports

Interpretation report	(1)	The name and location of the survey, including a location map and datum used.
	(2)	The petroleum interest to which the report relates and the name of the interest holder and the name of operator.
	(3)	A description of the objectives of the interpretation.
	(4)	A discussion and justification of the results of the interpretation.
	(5)	In the case of a seismic survey: <ul style="list-style-type: none">(a) a list of the surfaces that have been interpreted; and(b) a justification for the surfaces that have been interpreted, including synthetic seismograms (if available); and(c) the velocity field used to convert time to depth and the basis for the velocity field; and(d) time slices to describe the deposition environment (if available).
	(6)	Index maps and sections.
	(7)	The conclusions drawn from the interpretation.
	(8)	A detailed list of datasets and products submitted with the report.
Interpretative survey data	(1)	Interpreted sections, including seismic sections.
	(2)	Images of interpretive maps and diagrams.
	(3)	Models and mapping/spatial datasets.
	(4)	Interpreted results.

Schedule 4G Geoscientific study and reprocessing reports

regulation 66AAQ

1 Geoscientific study reports

- (1) The petroleum interest to which the report relates and the name of the interest holder and operator.
 - (2) The name of the contractor used to conduct the study (if applicable).
 - (3) An overview of the study, including the timeframes, objectives and methodology issued for the purposes of the study.
 - (4) A discussion of any findings or conclusions.
 - (5) Information about any related studies that are proposed to be undertaken.
 - (6) Any data or technical reports produced as part of the study.
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2 Reprocessing reports

- (1) A summary of the original survey data that is being reprocessed.
- (2) A reprocessing report, consistent with the requirements of Schedule 4F for a processing report, and the following associated data for reprocessed seismic data:
 - (a) final processed navigation and elevation data in the form of x, y and z coordinates for each shot and receiver point for 2D seismic surveys;
 - (b) raw and final stacked data, including near/mid/far sub-stacks if these have been generated;
 - (c) raw and final migrated data, including Pre Stack Time Migration (PSTM), Pre Stack Depth Migration (PSDM) and near/mid/far sub-stacks if these have been generated;
 - (d) 2D data subset for 3D seismic surveys;
 - (e) shot point to common depth point (CDP) relationship for 2D seismic surveys;
 - (f) final processed (grid) bin coordinates for 3D seismic surveys;

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- (g) polygonal position data (outline of full fold area) for 3D seismic surveys;
 - (h) data for stacked and migrated velocities, including line number and shot points for 2D seismic surveys, bin number for 3D seismic surveys and time versus root mean square (RMS) velocity pair.
- (3) An interpretation report and interpretative data, consistent with the requirements for final survey reports under Schedule 4F.

Schedule 4H Well barrier integrity validation reports

regulation 66AAR

- 1 The name of the well, the type of well and the number of the relevant tenure and the name of the interest holder and the name of the operator.
- 2 Information and data relating to the integrity validation testing that has been carried out.
- 3 A classification relating to the well integrity.
- 4 The revision history for the report.

Schedule 4J Daily well activity reports

regulation 66AAS

- 1 A report identifier and the date of the report.
- 2 The name of the well, the type of well and the number of the relevant tenure and the name of the interest holder and the name of the operator.
- 3 Well geographical coordinates.
- 4 Well depths.
- 5 Activity timeframes.
- 6 Well cost information.
- 7 A list of responsible daily contacts.
- 8 Well control equipment testing details.

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- 9 The operations being undertaken at the time of the report.
 - 10 A summary of operations for the last 24 hours.
 - 11 Information about operations carried out to the nearest 15 minutes.
 - 12 A brief summary of any tests, logs or surveys made in the well bore.
 - 13 Rig identification.
 - 14 Drilling and intervention fluid details.
 - 15 The results of any surveys made in the well bore.
 - 16 Any well stratigraphy data.
 - 17 Any indications of petroleum.

Schedule 4K Monthly production reports

regulation 66AAT

- 1 The total quantities for each of the following for the relevant month for the interest area:
 - (a) liquid and gaseous petroleum produced;
 - (b) liquid and gaseous petroleum used;
 - (c) liquid and gaseous petroleum injected;
 - (d) gaseous petroleum flared or vented;
 - (e) liquid petroleum stored;
 - (f) liquid and gaseous petroleum delivered from the area;
 - (g) water produced;
 - (h) water injected.
- 2 Taking into account the information provided under clause 1, the cumulative quantities of liquid and gaseous petroleum, and water, produced or injected as at the end of the month for the interest area.
- 3 For each well in the interest area:
 - (a) the identification name and number of the well; and

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- (b) a summary of all work performed on the well during the month; and
 - (c) the results of any production test for the well during the month; and
 - (d) the operational status of the well at the end of the month; and
 - (e) the number of production days for the month; and
 - (f) the total quantities for the each of the following for the relevant month:
 - (i) liquid and gaseous petroleum produced, with corresponding daily averages;
 - (ii) liquid and gaseous petroleum injected, with corresponding daily averages;
 - (iii) water produced, with corresponding daily averages;
 - (iv) water injected, with corresponding daily averages;
 - (v) average gas to oil ratios;
 - (vi) average water cut ratios.

- 4 Taking into account the information provided under clause 3, the cumulative quantities of liquid and gaseous petroleum, and water, produced or injected as at the end of the month for the well.

Schedule 4L Production test reports

regulation 66AAU

- 1 The identification name and number of the well.
- 2 A summary of the production test activities, including the number of days of flow testing, conducted during the month and the operational status of the well at the end of the month.
- 3 A summary of flow test results, including the range of production rates achieved during the month, the normalised flow rate and the composition of the fluids that have been produced.
- 4 The volume of petroleum flared or vented during the month.
- 5 Any conclusions or implications that inform further production testing to prove the commerciality of the reservoir.

Schedule 4M Final well activity reports

regulation 66AAV

- 1 The name of the well, the type of well and the number of the relevant tenure and the name of the interest holder and the name of the operator.
- 2 Well geographical coordinates and a well location map.
- 3 The status of the well (such as producing, suspended or decommissioned).
- 4 The purpose of the well activity.
- 5 The start and end dates for the well activity.
- 6 The depth reference and the surveyed height of depth reference above the ground surface, with reference to an approved height datum.

Example of depth reference

Kelly bushing or rig floor.

- 7 The water depth or ground depth of the well.
- 8 The measured depth of the well.
- 9 The true vertical depth of the well.
- 10 The depth of any perforation in a petroleum pool.
- 11 A detailed summary of the activity that has been carried out.
- 12 A list of well evaluation, formation evaluation or production logs.
- 13 The name of any contractor used to carry out the activity.
- 14 The type of rig, snubbing unit or coiled tubing unit used for the activity.
- 15 Details of equipment and casing installed on or in the well.
- 16 Details of any of the following:
 - (a) re-completion operations;
 - (b) cementing operations;
 - (c) fracturing operations;

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- (d) well testing operations;
 - (e) logging or perforating operations;
 - (f) milling or drilling operations.
- 17 A summary of fluids used in the well and lost circulation materials.
 - 18 Details of any indication of petroleum resources.
 - 19 Details of any produced formation materials.
 - 20 Any final well completion, suspension or decommissioned schematic.
 - 21 Well activity data, such as well evaluation log data.

Schedule 4N Initial well completion reports

regulation 66AAW(a)

- 1 The name of the well, the type of well and the number of the relevant tenure and the name of the interest holder and the name of the operator.
- 2 If the well is a side track well – the name of the parent well.
- 3 A well location map.
- 4 An introduction that gives a brief description or summary of the geological reason for drilling.
- 5 The predicted stratigraphy compared to the actual stratigraphy of the location of the well.
- 6 A statement of the well objectives and the extent to which those objectives have been met.
- 7 The depth reference and the surveyed height of depth reference above the ground surface, with reference to an approved height datum.

Example of depth reference
Kelly bushing or rig floor.
- 8 The surveyed surface well location and bottom hole location with coordinates in latitude and longitude and the relevant datum.
- 9 Particulars of all borehole deviation surveys.

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- 10 The name of the drilling contractor and the type of drilling rig that was used.
 - 11 The spud date, the date on which total depth was reached and the date of rig release.
 - 12 The measured depth and the true vertical depth reached, in metres.
 - 13 Details of drilling, including hole and casing design, bit records, cementing, drilling fluids, perforations, equipment installed and any other information relevant to well integrity.
 - 14 The formation evaluation, including stratigraphy and formation top details.
 - 15 A list of well evaluation logs, including the Measurement While Drilling (MWD) logs, Logging While Drilling (LWD) logs, cement bond logs, pressure detection logs, mud logs, wireline logs, velocity surveys, tiltmeter surveys and micro-seismic surveys.
 - 16 Plots and data for all well evaluation logs.
 - 17 A description and results of all tests, including Diagnostic Fracture Injection Testing (DFIT), Leak Off Tests (LOT), Formation Integrity Tests (FIT) and production tests or surveys carried out in the well or bore and including the depth in metres where each test was carried out and the distance in metres between the top and the bottom of each testing interval.
 - 18 Particulars of any hydraulic fracturing.
 - 19 A list of cores, cuttings and other sampling details with their depths and intervals.
 - 20 Hydrocarbon show details and a preliminary assessment of reservoir and prospective horizons.
 - 21 Well completion details, including a completion schematic.
 - 22 If applicable, lost in hole bottom assembly details, including a schematic.
 - 23 A statement outlining whether the well has been completed as a production well, suspended or abandoned.
 - 24 A summary of the overall drilling activity, well integrity and hydrocarbon potential, together with conclusions and any recommendations.

Schedule 4P Final well completion reports

regulation 66AAW(b)

- 1 The name of the well, the type of well and the number of the relevant tenure, and the name of the interest holder and the name of the operator.
- 2 If the well is a side track well, the name of the parent well.
- 3 A well location map.
- 4 A well data card.
- 5 Composite and interpreted well logs.
- 6 Photographs of core, cuttings and other samples, with identifying information.
- 7 Geological interpretations of the well data and details of changes to the reservoir model (if applicable).
- 8 A discussion of the relevance of the well data to the evaluation of the hydrocarbon potential of the area or any implications for future field maintenance.
- 9 The report and data for any technical or geoscience studies that have been carried out.
- 10 A report relating to any revised structure maps and appropriate seismic sections, illustrating the post-drilled structural and stratigraphic interpretation of the well.
- 11 An updated summary of the overall drilling activity, geological interpretation and hydrocarbon potential, together with conclusions and any recommendations.

Schedule 4Q Discovery evaluation reports

regulation 66AAX(1)

- 1 The location of the petroleum pool.
- 2 The reservoir rock properties.
- 3 The reservoir fluid properties.
- 4 An estimate of petroleum present in the petroleum pool that complies with the Petroleum Resources Management System published by the Society of Petroleum Engineers (as in force from

time to time), including the data, assumptions and methodologies on which those estimates are based.

- 5 Details of the plans for further evaluation of the discovery, including work that the permittee or licensee proposes to carry out in the interest area in the next 12 months.

Schedule 4R Revised estimate reports

regulation 66AAX(2)

- 1 The number of the relevant tenure and the name of the interest holder.
- 2 The location of the petroleum pool.
- 3 The reservoir rock properties.
- 4 The reservoir fluid properties.
- 5 The revised estimate of petroleum present in the petroleum pool that complies with the Petroleum Resources Management System published by the Society of Petroleum Engineers (as in force from time to time), including the data, assumptions and methodologies on which those estimates are based.
- 6 A description of the reservoir simulation models that have been used, a comparison of results with previous estimates and a discussion about any implications for petroleum recovery from the interest area.
- 7 A copy of any reports that have been prepared by or on behalf of the permittee or licensee in connection with the revised estimate.

23 Repeal of Regulations

These Regulations are repealed on the day after they commence.