# **Annual Environmental Performance Report 2023**

## **Dukas-1 – Conventional Gas Well**

Date	Rev	Reason for Issue	Author	Checked	Approved
15/05/2023	0	For Submission	RA	JH	MD



Document title	Annual Environmental Performance Report 2022  Dukas-1 – Conventional Gas Well
EMP(s) Covered	Dukas-1 – Conventional Gas Well
Permit	EPs 112 and 125
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	Frontier Oil and Gas Pty Ltd ABN 91 103 194 136 GPO Box 292, Brisbane, Qld, 4001
Interest holder details	Ordiv Petroleum Pty Ltd ABN 29 111 102 697 GPO Box 292, Brisbane, Qld, 4001
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Approved by	Santos QNT Pty Ltd
Date approved	15 May 2023

## **Signature and Certification**

I/We hereby declare that the information provided in this annual environment performance report and accompanying documents is to the best of my/our knowledge, true and correct.

### Asset/Project Approval

Signature	
Name (print)	Matt Densley
Position	General Manager New Ventures
Date	13 May 2023



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## **Abbreviations and Units**

Acronym / Abbreviation	Description		
AEPR	Annual Environmental Performance Report		
ALARP	As low as reasonably practicable		
Code	Code of Practice		
DEPWS	Department of Environment, Parks and Water Security		
DPTT	Department of Industry, Tourism and Trade		
EMP	Environmental Management Plan		
EP	Exploration Permit		
NT	Northern Territory		
NT EPA	Northern Territory Environmental Protection Authority		
Regulations	Petroleum (Environment) Regulations 2016		



## 1.0 Introduction

The Petroleum (Environment) Regulations 2016 (NT) include a requirement for the interest holder to provide an annual report to the Minister outlining the environmental performance of the interest holder (the Annual Environment Performance Report). The report must include sufficient information to allow the Minister to assess whether the interest holder has met the environmental outcomes and environmental performance standards included in the approved Environment Management Plan (EMP). The report is to consider information required to be recorded, monitored or reported under the Petroleum (Environment) Regulations 2016 (NT) and any other law in force in the Northern Territory related to conduct of the regulated activity.

This Annual Environmental Performance Report applies to the Dukas-1 – Conventional Gas Well EMP, EP 112 and 125 that was approved on 15 February 2019. The period covered by this AEPR is from 15 February 2022 to 14 February 2023.

The only activities undertaken on the lease pad were to address issues following heavy rainfall events and to reinstate a fallen fence. These were reported in quarterly recordable incident reports to the Department of Environment, Parks and Water Security (DEPWS) during the reporting period. Outside of these repair works, no regulated activities were undertaken in the reporting period.

## 1.1 Background

NT Exploration Permits 112 and 125 are in the Amadeus Basin in the south of the Northern Territory (refer to Figure 1). Santos is the operator of EP 112 and drilled the Dukas-1 exploration well in EP 112. The access track and supporting infrastructure such as borrow pits required for this activity occurred within both EP 112 and 125 as shown in Figure 2.

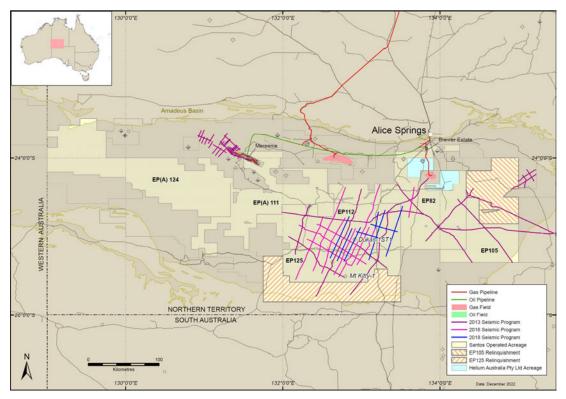


Figure 1: Santos acreage, Amadeus Basin, NT

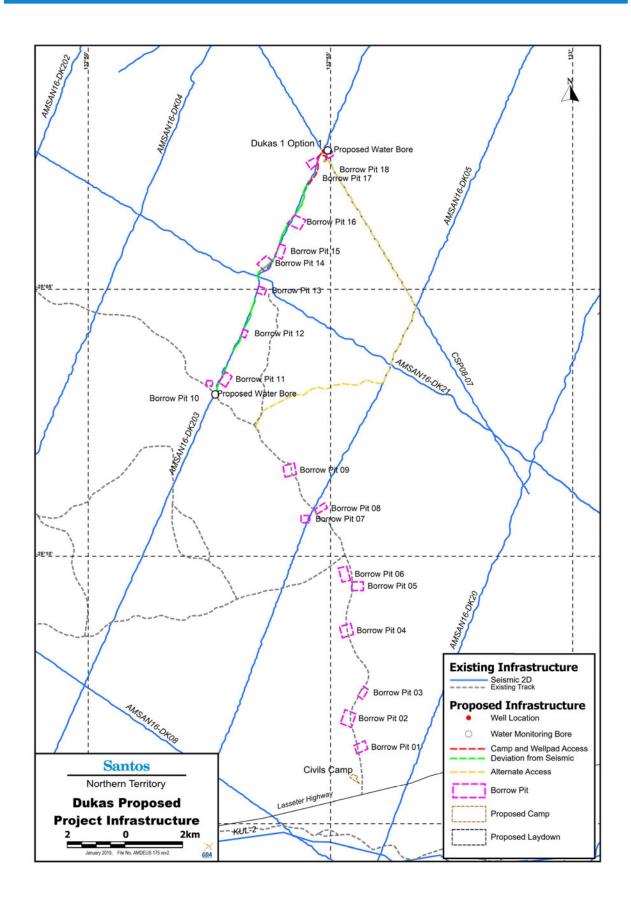


Figure 2: Location of Dukas 1 Well and Supporting Infrastructure



## 1.2 Contents of Performance Report

This AEPR describes the environmental performance of Santos by evaluation of the following:

- Compliance with Ministerial approval conditions for the EMP.
- 2. Compliance with each environmental outcome and environmental performance standard within the approved EMP.
- Compliance with reporting requirements in accordance with the Code and Regulations.
- 4. All recordable and reportable incidents, including root cause analysis and related corrective actions to prevent re-occurrence.
- Findings of all regulatory inspections and audits and related actions to address any findings.

## 1.3 Assessment of Compliance

Table 1 shows the compliance status indicators used in this AEPR.

**Table 1 Compliance Descriptors** 

Indicator	Description
Compliant	Compliant with requirement for entire 12 month reporting period
Not Compliant	Interest holder did not comply with the requirement during the reporting period
Not Applicable	Requirement not applicable during the reporting period

## 1.4 Evidence of Compliance

The following sources of evidence are used to demonstrate compliance:

- 1. internal tracking of compliance by Santos through for example: stakeholder engagement logs, weed inspections, daily and weekly reporting to DEPWS, internal audit
- 2. outcomes from regulatory inspection conducted by DEPWS (Petroleum Operations)
- 3. recordable and reportable incident reports submitted to DEPWS Petroleum Operations
- reports provided to DEPWS, the Department of Industry, Tourism and Trade (DITT) and other government agencies.



## **2.0 Demonstration of Compliance**

Table 2 demonstrates Santos' compliance with Ministerial EMP approval conditions.

Table 2 Compliance with Ministerial EMP Approval Conditions

No	Ministerial Condition	Compliance Status	Evidence
1	The approval is subject to the following conditions:  a. Activities under this approval must commence within 12 months of the date of this approval.	Not Applicable	Commencement of activities conducted under this EMP were not within the current reporting period. Activities commenced within 12 months of the date of this approval as reported in a previous AEPR.



Table 3 provides a systematic overview of Santos' performance status regarding environmental outcomes and environmental performance standards within the approved EMP.

Table 3 Compliance with Environmental Outcomes and Environmental Performance Standards Dukas-1 - Conventional Gas Well EMP

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
1	Minimise emissions to air	Blade work is banned on naturally smooth surfaces or flat easy terrain. Minimal blade work is permitted elsewhere for access	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
2	Minimise disturbance to native fauna	Where possible, existing tracks, roads or seismic lines will be used for access.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
3	Minimise disturbance to native vegetation	No driving off designated access roads	Compliant	Only designated access roads were driven on.
4	Minimise the impact on human health	Speeds on unsealed roads will be limited – maximum 60 km/hr for light vehicles, 40 km/hr for trucks and heavy vehicles.	Compliant	Speed limits adhered to.
5		Water trucks will be used for dust suppression as required.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
6	Minimise emissions to air	All vehicles, plant and the drill rig will be in good working order. Engines and machinery are maintained in accordance with the maintenance schedule	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
7	Minimise disturbance to native fauna	All boundary lighting will be positioned to face inwards to provide adequate lighting for safe operations, without excessive overspill.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
8	Minimise disturbance to livestock, pastoral infrastructure and landholders	Ensure site environmental inductions for all site personnel and contractors include the issue of noise, vibration and light and protective measures to prevent disturbance.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.



No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
9		Lighting used on drill site to minimise offsite disturbance, while maintaining safety standards.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
10	Minimise disturbance to native fauna Minimise disturbance to	Existing noise attenuation devices fitted to drill rig and other machinery used on site will be maintained in good working order.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
11	landholders Minimise disturbance to livestock	Engines and machinery are maintained in accordance with the maintenance schedule.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
12	Minimise disturbance to landholders	Maintain communications during operations with relevant landholders.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
13	Minimise loss of vegetation Minimise disturbance to native fauna and loss of habitat Minimise damage to soil through compaction and exposure Minimise disturbance or damage to culturally sensitive site	All personnel are given environmental and cultural heritage inductions prior to commencing work. Inductions for all employees and contractors cover pastoral, conservation, legislation and infrastructure issues	Compliant	All personnel had required inductions in accordance with the Santos Management System.
14		Activities to be planned to minimise new land disturbance by utilising previous disturbed areas or existing tracks (where possible), and through operational practices including weaving.	Compliant	There were no new areas of disturbance in the reporting period.
15		Staying within designated work areas and on approved roads.	Compliant	Driving only occurred on designated tracks.
16		Preference to use previously disturbed areas. Where possible, existing tracks, roads or seismic lines will be used for access.	Compliant	There were no new areas of disturbance during the reporting period.



No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
17		Mature trees selected for preservation are to be flagged to ensure their protection	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
18	Minimise loss of vegetation	Cleared vegetation will be respread during rehabilitation	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
19		Branches will be pruned in preference to total tree removal	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
20	Minimise disturbance to native fauna and loss of habitat	Hollow timber/trees that may be nesting/roosting sites for fauna will not be cleared.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
21		Grading will be minimised where possible.  If light grading is necessary, flora rootstock will be left intact to promote regeneration.	Compliant	Grading occurred on cleared areas only and was used to scarify/cross rip.
22	Minimise damage to soil through compaction and exposure	The Erosion and Sediment Control Plan developed by a Certified Professional in Erosion and Sediment Control (CPESC) plan will be implemented.	Compliant	The rectification works which occurred on site were as a result of rainfall events in the previous reporting period. As reported, an updated Erosion and Sediment Control Plan was developed by a CPESC and implemented
23		Inversion of the soil profile will be minimised where possible	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
24		Disturbance is restricted to areas which have CLC clearance	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
25	No disturbance or damage to culturally sensitive site	Ensure a sacred site clearance certification will be obtained prior to any activity.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
26		Known sites of sacred or cultural significance are identified and avoided.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.



No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
27		Any new sites identified during the activity will be reported to the Santos Cultural Heritage Team and avoided.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
28		Maintain GIS database of project footprint and cultural heritage sites including details of any Restricted Work Areas.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
29		Groundwater impact risk assessment for the proposed extraction rates and durations will be undertaken and will determine if monitoring is required	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
30	N	Ensure groundwater take is limited to the small volumes required by the project.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
31	No groundwater extraction impacting existing groundwater users/environment	Ensure appropriate licences are obtained prior to drilling program and that planned extraction is sustainable.	Not Applicable	On 20 February 2019, a phone call with DEPWS Water Resources hydrogeologist confirmed that as the project is not located within a Water Control District, and will not extract more than 15 L/s, no licence is required for groundwater extraction. Volumes sustainable.
32		If local water resources are used, bore numbers and estimated extraction volumes will be provided to DPIR.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
33	Minimise disturbance to surface water	Drivers will be appropriately qualified and will be trained in emergency response	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
34	Minimise disturbance to groundwater	Vehicles will have appropriate spill kits and staff trained in emergency response	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
35	Minimise reduction in soil quality	Travel Management Procedures are in place	Not Applicable	No relevant regulated activities were undertaken during the reporting period.



No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
36		Well bore integrity assessed prior to commencing drilling test.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
37		Blow-out preventer in well	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
38		Cement bond logging completed	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
39		Well control procedures are in place including The Santos Drilling And Completions Technical Standards 7 - Well Control Onshore	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
40		Well design and weighted mud system in place and are known.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
41		Real time monitoring of conditions during drilling including drilling monitoring & gas detection monitoring	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
42		Riser & diverter will be used to prevent mud spills	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
43		Pre-spud checks / Pre-job checks when transferring mud	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
44		Appropriate bunding in use for storage of chemicals and where required adherence to standards (e.g. Storage and Handling of Workplace Dangerous Goods National Standard [NOHSC:1015(2001))	Not Applicable	No relevant regulated activities were undertaken during the reporting period.



No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
45		Real time monitoring of conditions during drilling.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
46		Drilling Muds will be mixed in tanks.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
47		Spill kits available to treat spills in-situ	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
48		Minimise fuel transfer where possible.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
49		Use of drip trays for transfers.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
50		Any spills contained and remediated.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
51		Any spills will be remediated to the satisfaction of the landholder, fenced, soil removed to appropriate facility and signed off by land holder in accordance with the access.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
52		Fuel and other lubricants will be appropriately stored and managed, in accordance with AS1940.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
53	Unplanned interaction with or disturbance to other land users	Relevant landowners and occupiers are notified prior to civil and drilling activities.	Compliant	Appropriate notifications provided in advance of repair activities.
54		Inductions for all employees and contractors cover pastoral, conservation, legislation and infrastructure issues.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.



No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
55		All litter is to be managed and disposed of correctly.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
56		System is in place for logging landholder complaints to ensure that issues are addressed as appropriate.	Compliant	Complaints by the landholder were logged and then addressed.
57		Damage to station tracks is avoided and reported if does occur.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
58		All gates are left in the condition in which they were found	Compliant	All gates left as found.
59		Speeds on unsealed roads will be limited – maximum 60 km/hr for light vehicles, 40 km/hr for trucks and heavy vehicles and 20 km/hr around stock yards	Compliant	Speed limits adhered to.
60		When necessary, all fences are restored to satisfaction of landowner / managers.	Compliant	Fences restored to satisfaction of landowner / manager.
61	Minimise disturbance to native	No driving off designated access roads	Compliant	Driving only occurred on designated tracks.
62	fauna Minimise disturbance to livestock, pastoral infrastructure and landholders	Speeds on unsealed roads will be limited – maximum 60 km/hr for light vehicles, 40 km/hr for trucks and heavy vehicles and 20 km/hr around stockyards.	Compliant	Speed limits adhered to.
63	Minimise disturbance to native	Pits and water bore ponds will be fenced	Non-Compliant	Wind blew over the lease fence. It was first observed on 5 November 2022, and was reinstated and reinforced on 16 November 2022.
64	fauna	Routine checks of pits during construction and throughout the drilling program	Not Applicable	No relevant regulated activities were undertaken during the reporting period.

# **Santos**

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
65		Relevant landowners and occupiers are notified prior to civil and drilling activities.	Compliant	Appropriate notifications provided in advance of repair activities.
66	Minimise disturbance to livestock, pastoral infrastructure and landholders	All gates are left in the condition in which they were found	Compliant	All gates left as found.
67		When necessary, all fences are restored to satisfaction of landowner / managers.	Compliant	Fences restored to satisfaction of landowner / manager.
68		Well site fire management protocol will be in place with monitoring	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
69		Fire-fighting equipment and competent fire- fighting personnel will be used	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
70	Minimise disturbance to native	Include fire season education as part of the induction.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
71	fauna Minimise disturbance to native	Appropriate fire prevention procedures in place.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
72	flora Minimise disturbance to	Appropriate firefighting gear available to the crew.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
73	livestock  Minimise disturbance to landowners	All vehicles will be equipped with portable fire extinguishers.	Compliant	All Santos vehicles are fitted with portable fire extinguishers.
74		Machinery and vehicles should be parked in areas of low fire risk and be low fire risk and be free of any combustible material	Compliant	Machinery and vehicles parked in existing cleared areas.
75		Any petrol motor vehicles or petrol- powered pumps will be fitted with spark arresters.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.



No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
76		All vehicles will be equipped with operational VHF and / or UHF radio transceivers.	Compliant	All Santos vehicles are fitted with operational transceivers.
77		Smoking will only be permitted in areas clear of vegetation, and there will be no disposal of butts.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
78		All personnel will receive information prior to the commencement of the activity relating to:     Provisions of the Emergency Response Plan including procedures during a fire emergency	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
		The operation of firefighting equipment and communications Restricted smoking requirements		reporting period.
79		Toolbox meetings will be conducted to:     Alert the workforce of the fire risk level for the day     Discuss any fire risk management breaches and remedial actions	Compliant	Toolbox talks held before works each day
80		The flare pit will be monitored during flaring	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
81	Minimise disturbance to native	Weed wash-down certification for vehicle and machinery from interstate.	Not Applicable	No interstate vehicles.
82	fauna Minimise disturbance to native flora	Ensure site environmental inductions for all site personnel and contractors include vehicle weed hygiene requirements and information on exotic invasive ants.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.



No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
83	Minimise negative impacts to soil quality  Minimise disturbance to	All vehicle and equipment movements to stay on formed access tracks, well leases and camp areas.	Compliant	Driving only occurred on designated tracks.
84	livestock	Ensure vehicles, machinery and equipment entering the permit areas have been cleaned and are free of soil and vegetative matter, or have a valid weed hygiene certificate.	Compliant	Vehicles and machinery entering permit area free of soil and vegetative matter and weed declarations were made for all machinery.
85		A baseline weed assessment has been completed prior the commencement of works covered in this EMP. This baseline assessment will be used to provide benchmarks for post-project monitoring.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
86		To minimise spread of buffel grass from the south to the north of the project area, road works will be completed in the northern areas first and transporting soil material from the south to the north will be minimised.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
87		Baseline data will be collected in consultation with the Department of Environment and Natural Resources (DENR) and data will be provided to DENR in a format to be specified by them.	Not Applicable	Baseline relevant Weed Assessment was included in the Weed Management Plan. This was provided in the previous reporting period.
88		Areas of priority weeds identified will be marked.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
89		If infestations of priority weed species are identified during baseline assessment they will be avoided via a detour around the infestation if within line tolerance.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
90		If infestations are unavoidable, infestations will be crossed at the narrowest point and	Not Applicable	No relevant regulated activities were undertaken during the reporting period.



No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
		wash downs will be conducted once exiting the infestation.		
91		To minimise pest fauna interactions, municipal wastes and putrescible food wastes will be stored in sealed containers that limit access from Rock Doves and Sparrows	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
92		All water storages will be fenced to exclude large herbivorous fauna (Camels and Donkeys)	Compliant	Site is fenced.
93		Pits will have sufficient storage capacity to ensure there is an adequate freeboard, ensuring the highest recorded monthly rainfall can be accommodated.	Compliant	Pits have large freeboard capacity.
94	Minimise disturbance to surface water Minimise reduction in soil quality	Sump and flare pit levels will be monitored for overflow during and after high rainfall at all times while drilling	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
95		Soil sampling will include a baseline sample to drilling, sampling sump fluid post drill and sampling cuttings when dried out	Not Applicable	No relevant regulated activities were undertaken during the reporting period.
96		Cuttings burial or removal subject to sampling results	Not applicable	Dukas 1ST1 did not reach the primary reservoir target and was plugged and suspended for future re-entry and deepening. As a result, the lined cuttings pit remains in place for future activity. The cuttings pit has been fenced off with temporary fencing with a second fence barrier around the well lease to prevent animal ingress. Liquid in the cuttings pit is expected to entirely evaporate and the cuttings to dry out. Laboratory certificates of analysis show that cuttings sampling occurred on 3 October 2019. Additional analysis is required prior to cuttings disposal. Re sampling of these pits occurred on 6 May 2021. Cuttings disposal will be completed either prior to or following future activity at the project site.

# **Santos**

No	Environmental Outcome	Environmental Performance Standard	Compliance Status	Evidence
97		Cuttings pit will be constructed with a liner	Compliant	Cuttings pit lined.
98		Cuttings pit will be inspected to check the integrity of the liner	Compliant	As reported during reporting period, liner was reinstated following the displacement by stormwater of earthen material anchoring the trench.
99	Minimise disturbance to groundwater	Cuttings pit liner will be removed at the completion of project activities during demobilisation and rehabilitation activities prior to being backfilled.	Not Applicable	Dukas 1ST1 did not reach the primary reservoir target and was plugged and suspended for future re-entry and deepening. As a result, the lined cuttings pit remains in place for future activity. The cuttings pit has been fenced off with temporary fencing with a second fence barrier around the well lease to prevent animal ingress.
100		Groundwater monitoring will be undertaken to ensure leaching is not occurring.	Compliant	Groundwater monitoring at site has been undertaken and will recommence at least one month prior to any operations resuming.
101	Minimise disturbance to native fauna	Waste will be segregated on site and all putrescible waste material will be held in fauna proof containers.	Not Applicable	No relevant regulated activities were undertaken during the reporting period.



Table 4 provides the compliance status for reporting requirements in the Code of Practice: Onshore Petroleum Activities in the Northern Territory (Code of Practice) and the Petroleum (Environment) Regulations 2016 (NT).

**Table 4 Compliance with Mandatory Reporting Requirements** 

No	Reference	Requirement	Compliance Status	Evidence
1	Code cl A.3.5	Geospatial information depicting areas cleared is to be provided to the Minister.	Not Applicable	Approved prior to Code being incorporated into Regulations
2	Code cl A.3.6 (b)	Weed management plan developed as part of the EMP must provide for ongoing weed monitoring.	Not Applicable	Approved prior to Code being incorporated into Regulations
3	Code cl A.3.7(a)vi	The fire management plan developed as part of the EMP must provide for annual fire mapping to monitor changes to fire frequency in the relevant areas.	Not Applicable	Approved prior to Code being incorporated into Regulations
4	Code cl A.3.9(c) Code cl A.3.9(e)	The rehabilitation plan developed as part of the EMP requires progressive rehabilitation of significantly disturbed land which is required to commence no longer than 12 months following the cessation of activities on the land. It also requires regular maintenance and annual monitoring of rehabilitated areas.	Not Applicable	Approved prior to Code being incorporated into Regulations
5	Code cl B.4.13.2(c)	As a minimum, the following must be recorded and reported for each stage (where a stage in this context means all fluids pumped at a particular depth interval):  a) total volume of hydraulic fracturing fluid pumped,	Not Applicable	Approved prior to Code being incorporated into Regulations



No	Reference	Requirement	Compliance Status	Evidence
		b) quality of water used (tested for analytes in section C.8 of this Code. Analyses do not need to be repeated if the same water source is used for multiple stages) and c) typical and maximum concentrations of chemicals or other substances used.		
6	Code cl B.4.13.2(k)iv	Where venting is the only technically feasible option for managing produced gas, the technical considerations preventing the use of the recovered gas must be recorded and included in the operator's annual report.	Not Applicable	Approved prior to Code being incorporated into Regulations
7	Code cl B.4.14.2(c)	All new barriers or new well operating envelopes must be verified and clearly documented and reported by submission of an updated well barrier integrity validation (WBIV) report to DPIR.	Not Applicable	Approved prior to Code being incorporated into Regulations
8	Code cl B.4.15.2(j)	Complete and accurate records of the entire decommissioning procedure must be kept, with these records submitted as part of the legislative reporting requirements for the decommissioning of petroleum wells.	Not Applicable	Approved prior to Code being incorporated into Regulations
9	Code cl B.4.17.2(d)	Any guidelines published by the Northern Territory Government from time to time relating to reporting and data submission, and groundwater monitoring data standards must be followed.	Not Applicable	Approved prior to Code being incorporated into Regulations
10	Code cl C.3(e)	The components of the wastewater management framework, include Monitor, manage, and report in accordance with the	Not Applicable	Approved prior to Code being incorporated into Regulations



No	Reference	Requirement	Compliance Status	Evidence
		Wastewater Management Plan and Spill Management Plan.		
11	Code cl C.6.1(d)	Wastewater tracking documentation must be reported to the Minister at least annually in accordance with the framework (Spill Management Plan and Wastewater Management Plan) outlined in the EMP	Not Applicable	Approved prior to Code being incorporated into Regulations
12	Code cl C.7.1(d)ii	Wastewater Management Plan must include a program for monitoring and reporting against the effectiveness of the measures for the mitigation of interaction with wildlife, stock, and human receptors with wastewater.	Not Applicable	Approved prior to Code being incorporated into Regulations
13	Code cl D.4.3.2(f)	A written report detailing the levels of methane measured, the duration of the unusual readings and the results of the investigation (including remedial actions) must be submitted within one month of the significantly higher-level methane event being detected.	Not Applicable	Approved prior to Code being incorporated into Regulations
14	Code cl D.5.9.2(c)	Emissions from exploration, well construction (including during flowback) and workovers must be measured and reports submitted.	Not Applicable	Approved prior to Code being incorporated into Regulations
15	Code cl D.5.9.3(a)	Where natural gas is vented or flared at a gas processing or other downstream facility, emissions must be estimated and reported.	Not Applicable	Approved prior to Code being incorporated into Regulations



No	Reference	Requirement	Compliance Status	Evidence
16	Code cl D.6.1	All mandated government reporting is complied with; and all detectable leaks and emissions are reported on an annual basis.	Not Applicable	Approved prior to Code being incorporated into Regulations
17	Code cl D.6.2(a)	Reports of baseline assessments must be submitted at the conclusion of each field campaign.	Not Applicable	Approved prior to Code being incorporated into Regulations
18	Code cl D.6.2(b)	Emissions reporting must be in accordance with Section D.5.6. Emissions associated with venting and flaring as described in Section D.5.9 must be provided separately to the Northern Territory Government in accordance with this Code.	Not Applicable	Approved prior to Code being incorporated into Regulations
19	Reg 14	A current EMP remains in force until the interest holder notifies the Minister the activity is no longer being carried out and all of the environmental outcomes and obligations under the plan have been met, and the Minister advises the interest holder the notice is accepted and the plan ceases to be in force.	Compliant	The EMP remains in force.
20	Regulations Schedule 1, item 9(2)	Interest holders are required to conduct future engagement with stakeholders, in accordance with the description in the EMP.	Compliant	Stakeholder engagement logs indicate that engagement with stakeholders has been undertaken and this engagement continues.
21	EMP s 7.6 Reporting Reg 33	DENR is notified of reportable incidents within 2 hours of the interest holder becoming aware of the incident, or within 2 hours of the incident occurring.  A written report must be provided within 24 hours if the initial report was made orally.	Not Applicable	There were no reportable incidents during this period.



No	Reference	Requirement	Compliance Status	Evidence
22	EMP s 7.6 Reporting Reg 34	Reports on reportable incidents are to be provided to DENR as soon as practicable and within 72 hours of the event occurring.  A final report must be provided to DENR within 30 days after remediation/cleanup of the affected area.	Not Applicable	There were no reportable incidents during this period.
23	EMP s 7.6 Reporting Reg 35	A written report of all recordable incidents must be provided to DENR not later than 15 days after the 90-day reporting period (unless otherwise agreed).	Compliant	4 Recordable Incident reports provided by the due dates
24	Reg 37A	A report about flowback fluid from hydraulic fracturing must be provided to the Minister within 6 months of the flowback occurring.	Not Applicable	The regulated activity did not include hydraulic fracturing.
25	Reg 37B	A report about produced water from hydraulic fracturing must be provided to the Minister within 6 months of the produced water being extracted.	Not Applicable	The regulated activity did not include hydraulic fracturing.
26	Regulations Schedule 1, item 12	Interest holder must notify the Minister, occupier of the land and owner of the land on which the activity is to be carried out before commencement of activity.	Not Applicable	The regulated activity commenced prior to the reporting period.
27	Environment Protection Act 2019 (NT) div 8	Duty to notify the NT EPA as soon as practicable but within 24 hours of any incident which occurs which causes or threatens to cause material or significant environmental harm	Not Applicable	No incidents which could cause or threaten to cause material or significant environmental harm occurred during reporting period.
28	Waste Management and Pollution Control Act 1998 (NT) s14	Duty to notify the NT EPA as soon as practicable but within 24 hours of any incident which occurs which causes or	Not Applicable	No incidents which could cause or threaten to cause material or significant environmental harm occurred during reporting period.



No	Reference	Requirement	Compliance Status	Evidence
		threatens to cause pollution resulting in material or significant environmental harm.		



## 3.0 Summary of Compliance

## 3.1 Overview of Compliance

Table 5 provides a summary of the results of the compliance assessment against the 129 total compliance items.

**Table 5: Compliance Summary** 

Compliance Indicator	Number	Percentage
Compliant	32	25
Not Compliant	1	1
Not Applicable	97	74

## 3.2 Overview of Items Found Not Compliant

The following sections describe:

- the specific compliance requirements not met for the reporting period
- an analysis of the possible potential environmental harm or impact to environmental values resulting from non-compliance or partial compliance, using multiple lines of evidence
- a summary of the corrective actions already implemented, and further actions still required, as applicable, to ensure compliance is fully achieved in the future.

#### 3.2.1 Fencing

#### 3.2.1.1 Description

A fence around the cuttings pit fell over after heavy winds.

#### 3.2.1.2 Analysis of Potential Environmental Harm or Impact

There was no environmental harm. Repairs and maintenance have been completed.

#### 3.2.1.3 Corrective Actions

The fence was reinstated and reinforced as early as practicable.