

Appendix A: Modification Notice - Regulation 22

| Interest holder | Tamboran B2 Pty Ltd | | Beetaloo Sub-basin Multi-well Drilling, Stimulation and Well Testing Program Exploration Permit (EP) 98 & 76 Environment Management Plan | | | ORI10-3 | Mod # | 7 | Date | 28 October 2024 | | | | | |
|---|--|---|--|---|---|---------------------------|---------------------------------------|---|-------------------|---|--|--|--|--|--|
| Brief Description | The purpose of the regulation 22 is to incorporate all regulated activities associated with the Beetaloo Sub-Basin Amungee NW-1H EMP (ORI7-2) into the Beetaloo Sub-basin Exploration Permit (EP) 98 & 76 EMP (ORI10-3). The regulater the Amungee NW-1H EMP (ORI7-2) to date include completion of EPT. With the approval of Beetaloo Multi-well EMP, the Amungee NW-1H EMP was superseded and as such to reduce administration burden under multiple well site and E&A well, this modification aims to include the regulated activities for Amungee NW-1H well. Minor update is required to the Beetaloo Multi-well EMP. | | | | | | | | | | | | | | |
| Geospatial files included? | Yes | Yes | | | | | | | | | | | | | |
| Does the proposed change result | If an INCREASE in the Does the proposed change Has additional stakeholder Does it require additional Does it affect compliances Does it affect current rehabilitation, Will the environment | | | | | | | | | | | | | | |
| in a new, or increased, or | existing potential or | require additional | engagement been | environmental performance | with Sacred Sit | e Authority | weed fir | e, wastewa | er, erosion and | to be achieved, and will the impacts and | | | | | |
| potential or actual environmental | actual environmental risk, | mitigation measures to b | e conducted? | standards and measurement | Certificates? | | | sediment control, spill or emergency | | risks be managed to ALARP and | | | | | |
| impact or risk? | is it provided for in the | included? | | criteria? | | | | e plans? | | acceptable? | | | | | |
| Nie | EMP? | N - | Not conficely | N- | NI- | | NI- | | | W | | | | | |
| No. | Yes. | No. | Not applicable. | No. | No. | | No. | | | Yes. | | | | | |
| The Beetaloo Multi-well Drilling, | The Beetaloo Multi-well | Existing mitigation | Stakeholder engagement | The environmental | Amendment to | | | | anagement and | The environmental outcomes pertaining to | | | | | |
| Stimulation and Well Testing | EMP (ORI10-3) currently | measures are in place for | ' | performance standards and | Certificate C20 | | maintenance of gravel pits and access | | | the protection of soils, surface water, | | | | | |
| Program covered all impacts and | includes assessment of | all E&A activities, along | associated with Amungee | measurement criteria are | C2022/02 are r | ot required. | 1 | | rporated into the | groundwater, ecology and community are | | | | | |
| risks associated with the delivery | environmental risk for | with the supporting | NW-1H well on Amungee | sufficiently captured by the Beetaloo Multi-well EMP | | activities are within the | | broader regulated activities associated | | covered by the Beetaloo Multi-well EMP (ORI10-3). | | | | | |
| of remaining activities for Amungee NW-1H well. | E&A activities on the Amungee NW well site, | activities such as water bores, gravel pits and the | NW well site. All stakeholders aware that | (ORI10-3) (i.e. protection of | AAPA certificat | e boundary. | 1 | with the planned petroleum wells on Amungee NW well site. These activities are captured in existing plans such as | | | | | | | |
| · · | which includes Amungee | future rehabilitation. | activities on Amungee NW | soils, water, rehabilitation, etc.) | | | I - | | | The impacts and risks will continue to be | | | | | |
| The management of risks and impacts for E&A activities on | NW-1H, Amungee NW-2H | Activities described in the | -14 | | | | | rehabilitation, weed, fire, ESCP, that are part of the Beetaloo Multi-well EMP | | managed to ALARP and acceptable. | | | | | |
| Amungee NW well site was | and Amungee NW-3H. | Amungee NW-1H EMP | | | | | | | | | | | | | |
| approved by the Minister on 19 | The incorporation of the | (ORI7-2) are to be fully | | | | | (ORI10-3). | | | | | | | | |
| May 2022 having determined that | Amungee NW-1H | subsumed into the | | | | | | | | | | | | | |
| the environmental impacts and | remaining regulated | Beetaloo Multi-well EMP | | | | | | | | | | | | | |
| risks were reduced to a level that | activities into the ORI10-3 | (ORI10-3). | | | | | | | | | | | | | |
| is ALARP and acceptable. | EMP does not change how | | | | | | | | | | | | | | |
| | the activities will be | | | | | | | | | | | | | | |
| | managed. ORI10-3 | | | | | | | | | | | | | | |
| | provides for assessment of | | | | | | | | | | | | | | |
| | the accumulation of all | | | | | | | | | | | | | | |
| | activities on Amungee NW | | | | | | | | | | | | | | |
| | well site, inclusive of all 3 | | | | | | | | | | | | | | |
| | E&A wells. | | | | | | | | | | | | | | |
| Additional contextual information | | | | associated with Amungee NW-1H wive noting the Beetaloo Multi-well E | | | | | | well Drilling, Stimulation and Well Testing | | | | | |
| | No specific update to the environmental risk assessment necessary, as activities already captured and do not materially change the risks or impacts. This regulation 22 notification enables the regulation 14 notice to close out the <i>Beetaloo Sub-Basin Amungee NW-1H EMP (ORI7-2)</i> . This notice will be provided to DLPE. It is noted that the Beetaloo Multi-well EMP (ORI10-3) has six previous regulation 22 notifications as follows: | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| ORI10-3.1 Water bore location change | | | | | | | | | | | | | | | |
| | ORI10-3.2 Change to HF fluids | | | | | | | | | | | | | | |
| | ORI10-3.3 Change to completion fluids | | | | | | | | | | | | | | |
| | ORI10-3.4 Bore inf | rastructure and EMP edits | | | | | | | | | | | | | |
| | ORI10-3.5 Velkerri | 76 S2 civil – gravel pits, acc | cess tracks and associated activities | S | | | | | | | | | | | |
| | ORI10-3.6 Velkerri | 76 S2 horizontal drilling, h | vdraulic fracture stimulation (HFS). | well testing and associated activitie | ORI10-3.6 Velkerri 76 S2 horizontal drilling, hydraulic fracture stimulation (HFS), well testing and associated activities. | | | | | | | | | | |

| nterest holder | Tamboran B2 Pty Ltd | EMP Title | Beetaloo Sub-basin Multi-well Drilling, Stimu Exploration Permit (EP) 98 & 76 Environmen | | | nique 1P ID | ORI10-3 | Mod # | 7 | Date | 28 October 2024 | | |
|---|---|---|---|--|---|--|----------------|-------------------------------------|--|------|--|--|--|
| | Amended EMP text | | | | | | | | | | | | |
| S, Description of the activity | ES, Description of the activity | | | | | | | | | | | | |
| able 1: Description of the propose | Table 1: Description of the prop | posed expl | loration ar | nd appraisal a | ctivities for th | e Amungee | NW and Ve | lkerri 76 S2 sites | | | | | |
| Activity | Description | | | Activity | | Description | n | | | | | | |
| Amungee NW scope | | | | Amungee NW scope | | | | | | | | | |
| E&A activities at the Amungee NW | Operation of the two | E&A activities at the Amungee | | Operation of the two temporary camps | | | | | | | | | |
| site including drilling, hydraulic fracture stimulation (HFS) and well | Transportation, hand | site including drilling, hydraulic fracture stimulation (HFS) and well | | Transportation, handling and storage of bulk chemicals, fuels and wastes | | | | | | | | | |
| testing of Amungee NW-1H, Amungee NW-2H and Amungee NV | | gee NW-2H and Amung r quality data during dri | testing of Amungee NW-1H, Amungee NW-2H and Amungee N' -3H | ee NW | Drilling of the Amungee NW-2H and Amungee NW -3H horizontal E&A wells, including collection of reservoir quality data during drilling | | | | | | | | |
| -3H | 1 | Well design in accordance with the Code of Practice and approved Well Operations Management Plan (WOMP) including isolation of freshwater aquifers HFS of Amungee NW-2H and Amungee NW-3H Completion of Amungee NW-2H and Amungee NW-3H E&A wells | | | | Well design in accordance with the Code of Practice and approved Well Operation Management Plan (WOMP) including isolation of freshwater aquifers HFS of Amungee NW-2H and Amungee NW-3H Completion of Amungee NW-2H and Amungee NW-3H E&A wells | | | | | | | |
| | HFS of Amungee NW- | | | | | | | | | | | | |
| | Completion of Amung | | | | | | | | | | | | |
| | Extended production NW-3H E&A wells | testing of the Amungee | | | Extended production testing of the Amungee NW-1H, Amungee NW-2H and Amungee N 3H E&A wells | | | | | | | | |
| | | Gas flaring in accordance with Code of Practice requirements and as per US EPA 40 CFF 63.11, with a flare tip combustion efficiency of 98% | | | | Gas flaring in accordance with Code of Practice requirements and as per US E with a flare tip combustion efficiency of 98% | | | | | | | |
| | Beneficial use of appr | raisal gas for on-site pov | ower generation and use | | | • E | Beneficial use | of appraisal ga | f appraisal gas for on-site power generation and use | | | | |
| | | onitoring works on Ai | nungee NW-2H and Amungee NW-3H wells happroved WOMP | | | Maintenance and monitoring works on Amungee NW-1H, Amungee NW- NW-3H wells (including well workovers) in accordance with approved WON | | | | | | | |
| | Build up testing, suspension and decommissioning Amungee NW-2H and Amungee NW-3 E&A wells (if required) in accordance with the Code of Practice | | | | | Build up testing, suspension and decommissioning Amungee NW-1H, Amungee NW-2H an Amungee NW-3H E&A wells (if required) in accordance with the Code of Practice | | | | | | | |
| | | Groundwater extraction of approximately 110 ML under existing groundwater extraction licence (WEL GRF 10285) | | | | Groundwater extraction of approximately 110 ML under existing groundwa licence (WEL GRF 10285) | | | | | | | |
| | | Monitoring activities (including groundwater, stormwater, soils, leak detection and all other low impact ancillary data collection programs | | | | | - | tivities (includ cillary data co | | | water, soils, leak detection and all oth | | |
| On-site wastewater management t | O • On-site wastewater s | torage and treatment in | n accordance with Code of Practice | On-site wastewater managem | ent to | On-site wastewater storage and treatment in accordance with Code of Practice | | | | | | | |
| support ongoing E&A program | | ump, enclosed wastewa | support ongoing E&A program | 1 | Use of the drilling sump, enclosed wastewater storage tanks and wastewater treatments to manage drilling and flowback wastewater | | | | | | | | |

Site demobilisation

- Drill cuttings and flowback fluid quality testing in accordance with the Code of Practice
- Disposal of drill cuttings within EP98 is subject to the outcomes of chemical analysis in accordance with clause C.4.1.2 of the Code of Practice
- Drilling waste storage and disposal located within the existing Amungee NW site or transported off-site
- On-site treatment of wastewater through evaporation or other alternative methods (such as enhanced evaporation or other mechanical water treatment options)
- Off-site disposal of wastewater in accordance with the Waste Management and Pollution
- Demobilisation of exploration equipment, including camps, drilling rigs, HFS equipment, completion rigs, well testing equipment, wastewater storage tanks and various service provider equipment
- Approximately 44 traffic movements per day during site demobilisation

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- Approximately 44 traffic movements per day during site demobilisation

| Interest holder | Tamboran B2 Pty Ltd | EMP Title | Beetaloo Sub-basin Multi-well Drilling, Stimu Exploration Permit (EP) 98 & 76 Environmen | Unique EMP ID | ORI10-3 | Mod # | 7 | Date | 28 October 2024 | |
|---------------------|---|--------------|---|------------------------------|--|--|------------------|---|-----------------|--|
| Current EMP text | | | | | | Am | nended EMP t | ext | | |
| Site rehabilitation | Decommissioning and rethe removal of drilling wastewater and all ancil Final rehabilitation activic consistent with pre-distriction. | | • | the removal of wastewater ar | of drilling suind all ancillary ation activities | mp, wastewa equipment s to return th | ater tanks, ones | ructure and wastes from site including cellars, equipment, non-drilling waste, to a safe, stable and non-polluting form | | |

1.1 Purpose

Tamboran B2 Pty Ltd (Tamboran) is a registered holder and the operator of Exploration Permit (EP) 98 and EP76, located in the Beetaloo Subbasin. This Environment Management Plan (EMP) forms the basis of Tamboran's application to the Northern Territory (NT) Minister for Environment for the drilling, hydraulic fracture stimulation (HFS) and well testing of five E&A wells. These wells are proposed to be drilled on the existing Amungee NW site (two wells) and Velkerri 76 S2 site (three wells). This will increase the total number of E&A wells on eacch well site, Amungee NW and Velkerri 76 S2, to three E&A petroleum wells.

The proposed additional E&A wells covered under this EMP are:

- Amungee NW-2H and Amungee NW-3H at the Amungee NW location
- Velkerri 76 S2-1H, Velkerri 76 S2-2H and Velkerri 76 S2-3H at the Velkerri 76 S2 location.

The drilling, stimulation and well testing of the E&A wells on each of the exploration sites is considered an important step in confirming the technical and commercial feasibility of the Velkerri shale. The Amungee NW site is located in the dry gas window, with recent data acquired from the existing Amungee NW-1H E&A well confirming better than originally determined shale gas prospectively. The Velkerri 76 S2 is located in the wet gas window, with indicative results collected during the drilling of Velkerri 76 S2-1 confirming the presence of wet gas.

The Velkerri 76 S2-1 well was vertically drilled in 2021 under the approved *Beetaloo Basin Drilling, Stimulation and Well Testing Program Velkerri 76 S2 EMP* (NT-2050-15-MP-03). Following this, Velkerri 76 S2-1 well deferred the horizontal drilling section, hydraulic fracturing and well testing to the 2025/2026 period.

This EMP covers the regulated activities required to enable Tamboran to drill, stimulate, test, maintain and decommission the proposed E&A wells anticipated to be drilled on the Amungee NW and Velkerri 76 S2 site within the 2022-2026 period.

1.2 Project Boundary

Tamboran proposes to drill, stimulate and test up to two addtiional petroleum E&A wells on the Amungee NW well site and Velkerri 76 S2 well sites within EP 98 and EP 76 (total of four new wells and one re-entry well). The three wells on each well site target the Velkerri shale resource. The boundary of this EMP is defined as the area which may be affected by E&A activities, including:

- use and maintenance of existing access tracks to the Velkerri 76 S2 well site and Amungee NW well site
- 1.1 km access track to the Amungee NW2 location (1.5 ha)
- existing Amungee NW and Velkerri 76 S2 well pad, camp pad, and associated infrastructure (i.e. gravel pits (VGP1, VGP2 and VGP3), water bores, laydown yard, helipad and stockpile storage areas)
- existing Velkerri 76 S2 chemical storage areas, well pad bund, sediment basin, wastewater tanks and drilling sump
- proposed expansion of the existing Amungee NW well pad and camp pad, including the installation of a new fence line and fire break
- proposed construction and operation of a helipad and laydown yard at Amungee NW and operation at Velkerri 76 S2
- proposed installation of the two impact monitoring bores (IMB) and an additional two groundwater extraction bores for additional water supply/ monitoring on the existing Velkerri 76 S2 well site (up to 6 in total) and 2 groundwater monitoring bores at the Amungee NW2 location (2.0 ha)
- groundwater extraction and compliance under the water extraction licence # GRF 10285
- drilling two additional petroleum E&A wells at Amungee NW well site and two additional and one re-entry petroleum E&A wells at Velkerri 76 S2 well site (three petroleum E&A wells per site)
- proposed drilling, stimulation, well testing and suspension and abandonment of up to three petroleum E&A wells at each of the Amungee NW and Velkerri 76 S2 sites
- asset maintenance and monitoring activities
- site decommissioning and rehabilitation
- all activities ancillary of the above.

The proposed locations of the infrastructure and associated regulated activities are provided in Table 6 and Figure 5 to Figure 8.

1.1 Purpose

Tamboran B2 Pty Ltd (Tamboran) is a registered holder and the operator of Exploration Permit (EP) 98 and EP76, located in the Beetaloo Subbasin. This Environment Management Plan (EMP) forms the basis of Tamboran's application to the Northern Territory (NT) Minister for Environment for the drilling, hydraulic fracture stimulation (HFS) and well testing of five E&A wells. These wells are proposed to be drilled on the existing Amungee NW site (two wells) and Velkerri 76 S2 site (three wells). This will increase the total number of E&A wells on eacch well site, Amungee NW and Velkerri 76 S2, to three E&A petroleum wells, inclusive of Amungee NW-1H well.

The proposed additional E&A wells covered under this EMP are:

- Amungee NW-2H and Amungee NW-3H at the Amungee NW location
- Velkerri 76 S2-1H, Velkerri 76 S2-2H and Velkerri 76 S2-3H at the Velkerri 76 S2 location.

The drilling, stimulation and well testing of the E&A wells on each of the exploration sites is considered an important step in confirming the technical and commercial feasibility of the Velkerri shale. The Amungee NW site is located in the dry gas window, with recent data acquired from the existing Amungee NW-1H E&A well confirming better than originally determined shale gas prospectively. The Velkerri 76 S2 is located in the wet gas window, with indicative results collected during the drilling of Velkerri 76 S2-1 confirming the presence of wet gas.

The Velkerri 76 S2-1 well was vertically drilled in 2021 under the approved *Beetaloo Basin Drilling, Stimulation and Well Testing Program Velkerri 76 S2 EMP* (NT-2050-15-MP-03). Following this, Velkerri 76 S2-1 well deferred the horizontal drilling section, hydraulic fracturing and well testing to the 2025/2026 period.

This EMP covers the regulated activities required to enable Tamboran to drill, stimulate, test, maintain and decommission the E&A wells on Amungee NW and Velkerri 76 S2 site within the 2022-2026 period.

1.2 Project Boundary

Tamboran proposes to drill, stimulate and test up to two addtiional petroleum E&A wells on the Amungee NW well site and Velkerri 76 S2 well sites within EP 98 and EP 76 (total of one existing, four new wells and one re-entry well). The three wells on each well site target the Velkerri shale resource. The boundary of this EMP is defined as the area which may be affected by E&A activities, including:

- use and maintenance of existing access tracks to the Velkerri 76 S2 well site and Amungee NW well site
- 1.1 km access track to the Amungee NW2 location (1.5 ha)
- existing Amungee NW and Velkerri 76 S2 well pad, camp pad, and associated infrastructure (i.e. gravel pits (VGP1, VGP2 and VGP3), water bores, laydown yard, helipad and stockpile storage areas)
- existing Velkerri 76 S2 chemical storage areas, well pad bund, sediment basin, wastewater tanks and drilling sump
- proposed expansion of the existing Amungee NW well pad and camp pad, including the installation of a new fence line and fire break
- proposed construction and operation of a helipad and laydown yard at Amungee NW and operation at Velkerri 76 S2
- proposed installation of the two impact monitoring bores (IMB) and an additional two groundwater extraction bores for additional water supply/ monitoring on the existing Velkerri 76 S2 well site (up to 6 in total) and 2 groundwater monitoring bores at the Amungee NW2 location (2.0 ha)
- groundwater extraction and compliance under the water extraction licence # GRF 10285
- drilling two additional petroleum E&A wells at Amungee NW well site and two additional and one re-entry petroleum E&A wells at Velkerri 76 S2 well site (three petroleum E&A wells per site)
- proposed drilling, stimulation, well testing and suspension and abandonment of up to three petroleum E&A wells at each of the Amungee NW and Velkerri 76 S2 sites
- asset maintenance and monitoring activities
- site decommissioning and rehabilitation
- all activities ancillary of the above.

The proposed locations of the infrastructure and associated regulated activities are provided in Table 6 and Figure 5 to Figure 8.

| Interest holder | Tamboran B2 Pty Ltd | EMP Title | Beetaloo Sub-basin Multi-well Drilling, Stimu Exploration Permit (EP) 98 & 76 Environmen | • • | Unique EMP ID | ORI10-3 | Mod# | 7 | Date | 28 October 2024 | | |
|---|---|---|---|---|--|---|---|------------|---------------|--|--|--|
| | Current E | MP text | | Amended EMP text | | | | | | | | |
| 3. Description of regulated activity | | 3. Description of regulated activity | | | | | | | | | | |
| This EMP covers the regulated activitien norizontal E&A wells within the 2022-20 under this EMP. | | | | | | | | | | | | |
| Table 8: Description of the proposed e | xploration and appraisal activitie | es for the Amungee N | V and Velkerri 76 S2 | Table 8: Description of the proposed exploration and appraisal activities for the Amungee NW and Velkerri 76 S2 | | | | | | | | |
| Activity | Activity Description | | | | | on | | | | | | |
| Amungee NW scope | | | | Amungee NW scope | | | | | | | | |
| E&A activities at the Amungee NW site including drilling, hydraulic | Operation of the two | temporary camps | | E&A activities at the Amungee NW site including drilling, hydraulic | • | Operation of t | | | | | | |
| fracture stimulation (HFS) and well testing of Amungee NW-1H, Amungee NW-2H and Amungee NW -3H | Transportation, handle | ling and storage of bul | k chemicals, fuels and wastes | fracture stimulation (HFS) and well testing of Amungee NW-1H, Amungee NW-2H and Amungee NW -3H | • | Transportation, handling and storage of bulk chemicals, fuels and wastes | | | | | | |
| | | gee NW-2H and Amun r quality data during d | gee NW -3H horizontal E&A wells, including the rilling | | | Drilling of the Amungee NW-2H and Amungee NW -3H horizontal E&A wells, including collection of reservoir quality data during drilling | | | | | | |
| -311 | _ | | e of Practice and approved Well Operations on of freshwater aquifers | | I | Well design in accordance with the Code of Practice and approved Well Operation Management Plan (WOMP) including isolation of freshwater aquifers | | | | | | |
| | HFS of Amungee NW-2H and Amungee NW-3H | -3Н | | • | HFS of Amungee NW-2H and Amungee NW-3H Completion of Amungee NW-2H and Amungee NW-3H E&A wells | | | | | | | |
| | Completion of Amung | gee NW-2H and Amun | | • | | | | | | | | |
| | Extended production NW-3H E&A wells | testing of the Amunge | ee NW-1H E&A, Amungee NW-2H and Amungee | | I | Extended prod 3H E&A wells | nded production testing of the <mark>Amungee NW-1H</mark> , Amungee NW-2H and Amungee N &A wells | | | | | |
| | Gas flaring in accordance with Code of Prac 63.11, with a flare tip combustion efficiency of | actice requirements and as per US EPA 40 CFR of 98% | | | Gas flaring in accordance with Code of Practice requirements and as per US EPA 40 CFR with a flare tip combustion efficiency of 98% | | | | | | | |
| | Beneficial use of appr | raisal gas for on-site po | ower generation and use | | • | Beneficial use of appraisal gas for on-site power generation and use | | | | | | |
| | Maintenance and monitoring works on Amungee NW-2H and Amungee NW-3H (including well workovers) in accordance with approved WOMP | | | I | Maintenance and monitoring works on Amungee NW-1H, Amungee NW-2H and NW-3H wells (including well workovers) in accordance with approved WOMP | | | | | | | |
| | Build up testing, suspension and decommissioning Amungee NW-2H and Amungee NW-3H E&A wells (if required) in accordance with the Code of Practice | | | | | Amungee NW-1H, Amungee NW-2H ance with the Code of Practice | | | | | | |
| | Groundwater extracti licence (WEL GRF 102) | | 110 ML under existing groundwater extraction | | | | undwater extraction of approximately 110 ML under existing groundwater extace (WEL GRF 10285) | | | | | |
| | | (including groundwate data collection prograr | r, stormwater, soils, leak detection and all other | | I | Monitoring ac | | | | water, soils, leak detection and all oth | | |
| On-site wastewater management to | On-site wastewater st | torage and treatment | in accordance with Code of Practice | On-site wastewater management to | • | On-site waste | water storage | and treatm | ent in accord | dance with Code of Practice | | |

On-site wastewater storage and treatment in accordance with Code of Practice

- Use of the drilling sump, enclosed wastewater storage tanks and wastewater treatme tanks to manage drilling and flowback wastewater
- Drill cuttings and flowback fluid quality testing in accordance with the Code of Practice

support ongoing E&A program

Site demobilisation

- Disposal of drill cuttings within EP98 is subject to the outcomes of chemical analysis accordance with clause C.4.1.2 of the Code of Practice
- Drilling waste storage and disposal located within the existing Amungee NW site transported off-site
- On-site treatment of wastewater through evaporation or other alternative methods (sur as enhanced evaporation or other mechanical water treatment options)
- Off-site disposal of wastewater in accordance with the Waste Management and Pollution

Demobilisation of exploration equipment, including camps, drilling rigs, HFS equipment completion rigs, well testing equipment, wastewater storage tanks and various servi provider equipment

| Amungee NW scope | |
|--|---|
| E&A activities at the Amungee NW | Operation of the two temporary camps |
| site including drilling, hydraulic fracture stimulation (HFS) and well | Transportation, handling and storage of bulk chemicals, fuels and wastes |
| testing of Amungee NW-1H, Amungee NW-2H and Amungee NW -3H | Drilling of the Amungee NW-2H and Amungee NW -3H horizontal E&A wells, including the collection of reservoir quality data during drilling |
| -311 | Well design in accordance with the Code of Practice and approved Well Operation Management Plan (WOMP) including isolation of freshwater aquifers |
| | HFS of Amungee NW-2H and Amungee NW-3H |
| | Completion of Amungee NW-2H and Amungee NW-3H E&A wells |
| | Extended production testing of the Amungee NW-1H, Amungee NW-2H and Amungee NV-3H E&A wells |
| | Gas flaring in accordance with Code of Practice requirements and as per US EPA 40 CFR 63.1 with a flare tip combustion efficiency of 98% |
| | Beneficial use of appraisal gas for on-site power generation and use |
| | Maintenance and monitoring works on Amungee NW-1H, Amungee NW-2H and Amung NW-3H wells (including well workovers) in accordance with approved WOMP |
| | Build up testing, suspension and decommissioning Amungee NW-1H, Amungee NW-2H at Amungee NW-3H E&A wells (if required) in accordance with the Code of Practice |
| | Groundwater extraction of approximately 110 ML under existing groundwater extraction licence (WEL GRF 10285) |
| | Monitoring activities (including groundwater, stormwater, soils, leak detection and all oth low impact ancillary data collection programs |
| On-site wastewater management to | On-site wastewater storage and treatment in accordance with Code of Practice |
| support ongoing E&A program | Use of the drilling sump, enclosed wastewater storage tanks and wastewater treatme tanks to manage drilling and flowback wastewater |
| | Drill cuttings and flowback fluid quality testing in accordance with the Code of Practice |
| | Disposal of drill cuttings within EP98 is subject to the outcomes of chemical analysis accordance with clause C.4.1.2 of the Code of Practice |
| | Drilling waste storage and disposal located within the existing Amungee NW site transported off-site |
| | On-site treatment of wastewater through evaporation or other alternative methods (such enhanced evaporation or other mechanical water treatment options) |
| | Off-site disposal of wastewater in accordance with the Waste Management and Pollution Control Act |
| Site demobilisation | Demobilisation of exploration equipment, including camps, drilling rigs, HFS equipment completion rigs, well testing equipment, wastewater storage tanks and various servi provider equipment |

| Interest holder | Tamboran B2 Pty Ltd | EMP Title | Beetaloo Sub-basin Multi-well Drilling, Stimu Exploration Permit (EP) 98 & 76 Environmen | | Unique EMP ID | ORI10-3 | Mod# | 7 | Date | 28 October 2024 | | |
|--|---|--|--|---|--|--|--------------------------------|---|------|-----------------|--|--|
| | Current EN | Amended EMP text | | | | | | | | | | |
| | Approximately 44 traffi | ic movements per day d | uring site demobilisation | Approximately 44 traffic movements per day during site demobilisation | | | | | | | | |
| Site rehabilitation | the removal of drilling wastewater and all and | s sump, wastewater tal illary equipment vities to return the sites | frastructure and wastes from site including hks, cellars, equipment, non-drilling waste, back to a safe, stable and non-polluting form | Site rehabilitation | Decommissioning and removal of all surface infrastructure and wastes from site including the removal of drilling sump, wastewater tanks, cellars, equipment, non-drilling waste, wastewater and all ancillary equipment Final rehabilitation activities to return the sites back to a safe, stable and non-polluting form consistent with pre-disturbed condition | | | | | | | |
| 3.15 Ongoing monitoring and well inte | grity management | | | 3.15 Ongoing monitoring and well | integrity mana | gement | | | | | | |
| The ongoing monitoring and well integri is illustrated in Figure 32. Origin's Operation The WIMP defines monitoring, mainte ultimately forms a part of the Well Operato ensure the integrity of a well through | tions team manage the ongoing into mance and integrity testing requir ation Management Plan (WOMP). T | 76 S2-2H and Velkerri 76 S2-3H well Well Integrity Management Plan (V | s is illustrated in WIMP). The WII his ultimately fo | n Figure 32. <mark>Tai</mark> MP defines mo orms a part of t | <mark>nboran's</mark> Ope nitoring, maii he Well Oper | rations team ntenance an ation Manag | n manage the d integrity to | ungee NW-3H, Velkerri 76 S2-1H, Velkerri e ongoing integrity of the well through the esting requirements and frequencies and (WOMP). The WIMP and WOMP are both | | | | |

All appendices are consistent with the Beetaloo Multi-well EMP (ORI10-3.6), including the Appendix H ESCP and Appendix O Rehabilitation Plan recently updated as part of ORI10-3.5 regulation 22.