

**Appendix J.1.2 07 240223 RE: Tamboran 2024 revised  
work program**

**From:** [Matt Kernke](#)  
**To:** [REDACTED]  
**Cc:** [Emily Beresford-Cane](#); [Faron Thibodeaux](#); [Tamboran Contact](#); [Gibson Porkime](#); [Robert Wear](#); [Linda Pugh](#)  
**Subject:** RE: Tamboran 2024 revised work program  
**Date:** Friday, 23 February 2024 4:05:29 PM  
**Attachments:** [image001.png](#)

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Hi Jeremy,

Thank you for the email. We will have the requested email to you by COB Monday.

Kind Regards

Matt

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**From:** [REDACTED]  
**Sent:** Friday, February 23, 2024 4:24 PM  
**To:** Matt Kernke [REDACTED]  
**Cc:** Emily Beresford-Cane [REDACTED]; Faron Thibodeaux [REDACTED]; Tamboran Contact [REDACTED]; Gibson Porkime [REDACTED]; Robert Wear [REDACTED]; Linda Pugh [REDACTED]  
**Subject:** RE: Tamboran 2024 revised work program

Hi Matt,

Thanks for the updated Work Program documentation

Please see below summarised requests from GIS team and Anthro's. As discussed briefly, the earlier we receive this info the more time we'll have to prep for the meetings that are fast approaching in March.

- Please provide additional spatial data/shape files for all NEW ITEMS as expressed in Table 1 and Figure 13 that will be addressed in the Work Program i.e. access tracks, seismic, gravel pits, wells/ well pad construction etc. This includes point, line and polygon data.
- Please provide GIS data for Overview of the proposed regional groundwater and surface water monitoring sites (page 14)
- Please properly attribute shapefiles with at least a name and description of each feature and a column/ field stating if it's a new feature to be cleared or has been previously cleared.

Looking forward to your response.

Kind regards,

[REDACTED]  
Senior Project Officer  
Resources & Energy Branch  
Northern Land Council

---

**From:** Matt Kernke <[matt.kernke@tamboran.com](mailto:matt.kernke@tamboran.com)>

**Sent:** Tuesday, 20 February 2024 2:01 PM

**To:** Jeremy Beckett [REDACTED]

**Cc:** Emily Beresford-Cane [REDACTED]; Faron Thibodeaux [REDACTED];  
[REDACTED]; Tamboran Contact [REDACTED];  
Gibson Porkime [REDACTED]; Robert Wear [REDACTED]

[REDACTED]; Linda Pugh [REDACTED]

**Subject:** Tamboran 2024 revised work program

Hi Jeremy,

As foreshadowed, please find attached the updated 2024 work program and sacred site clearance request. I have also included the spatial file for the Subject land 2 extension.

In addition to the appraisal gas approval, the sacred site clearances will also cover the Stuart Plateau Compression Facility (SPCF) [REDACTED]. These programs are planned to commence in August/September this year, so we will need the sacred site clearances and AAPA certificate application to be a priority. It would be great to lock in dates for these clearances in the next 2 weeks, so we can have people on the ground to support. We would hope for these to be completed in April/May to enable a certificate to be generated by mid August.

Similar to the previous clearance requests, we have provided a significant amount of information in application which is designed to satisfy our stakeholder engagement requirements under the Petroleum (Environment) Regulations. We welcome any comment/ queries on this information and it will be used to generate the EMP which will be submitted to the NLC in accordance with our Exploration agreements. At this stage, we are planning to commence developing 2 EMP's covering the Temporary Stuart Plateau Compression Facility (SPCF) and another covering a 3D seismic survey. These are planned to be submitted in May 2024.

Can I suggest a meeting in the next couple of weeks to sit down and go through the scope and discuss the forward plan?

Any questions, please let me know.

Talk soon.

Matt

**Matt Kernke**  
Environment and Approvals Manager



M: [REDACTED]

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**Appendix J.1.2 08 240305 DRAFT - Appraisal Gas  
Presentation for JNWG Meeting**

**From:** [Emily Beresford-Cane](#)  
**To:** [REDACTED]  
**Cc:** [Faron Thibodeaux](#)  
**Subject:** DRAFT - Appraisal Gas Presentation for JN WG Meeting  
**Date:** Tuesday, 5 March 2024 5:41:28 PM  
**Attachments:** [BUG NLC Presentation March 2024 DRAFT.pdf](#)

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Dear [REDACTED]

Please find attached Draft Presentation for the Elliott JN WG Meeting on 19th March for your information. The material builds upon the information Tamboran provided to the NLC in our correspondence of 21st December 2023.

We will forward the Work Program Presentation material for the meeting on 20th March to the NLC shortly.

Please don't hesitate to let me know if you have any feedback or questions on the attached.

Kind regards

Emily



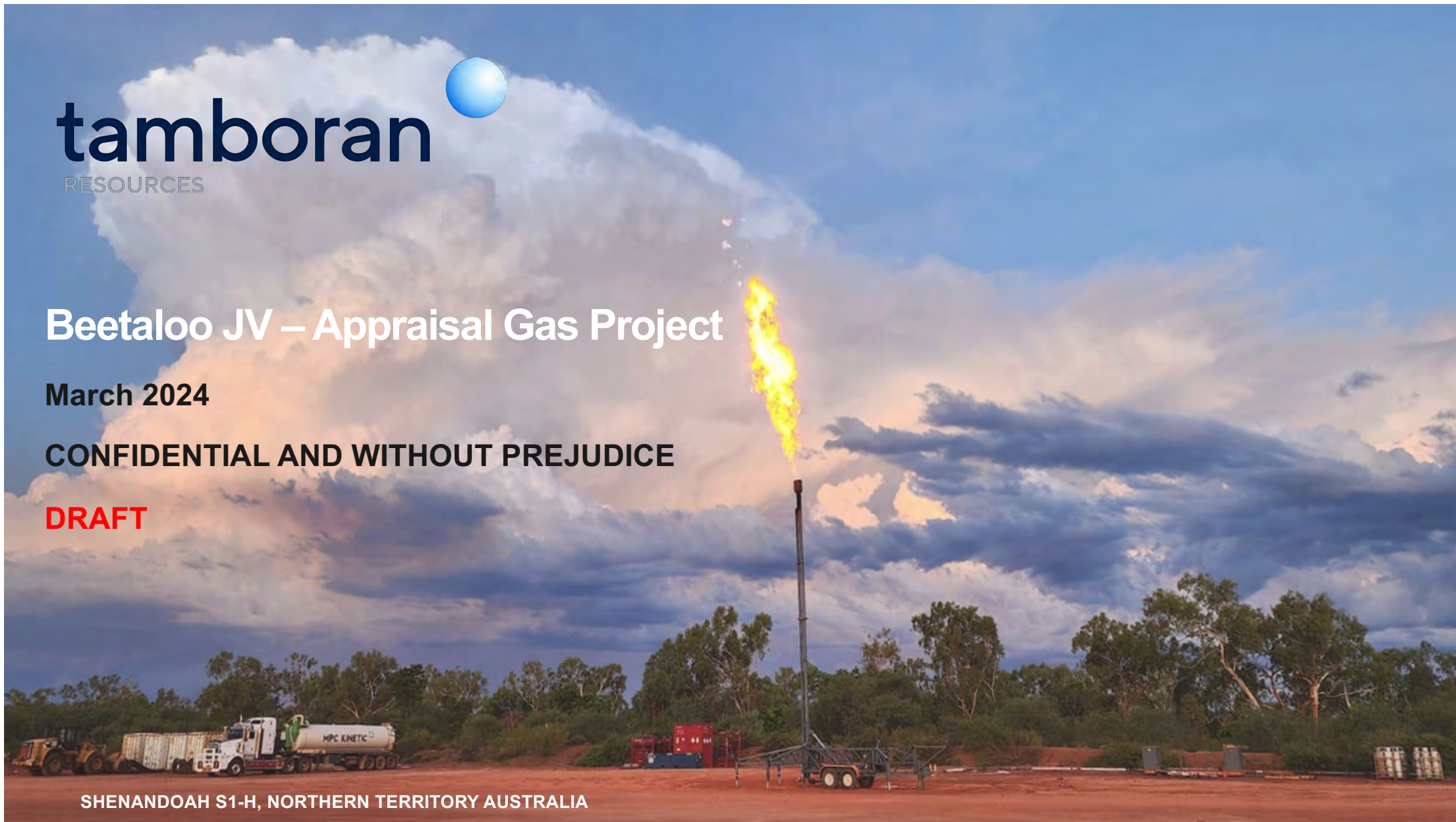
# Beetaloo JV – Appraisal Gas Project

March 2024

**CONFIDENTIAL AND WITHOUT PREJUDICE**

**DRAFT**

SHENANDOAH S1-H, NORTHERN TERRITORY AUSTRALIA



# Agenda

1. Introductions and Acknowledgement
2. Purpose of meeting – Appraisal Gas Project
3. Well results
4. Exploration activities Vs Appraisal activities
5. Project Location
6. Appraisal Gas Project
  - Project Overview
  - Sturt Plateau Compression Facility
  - [REDACTED]
  - Gathering Lines
  - [REDACTED]
  - End of Appraisal Gas Project and Rehabilitation

7. Approvals, Agreement and timeframes

[REDACTED]

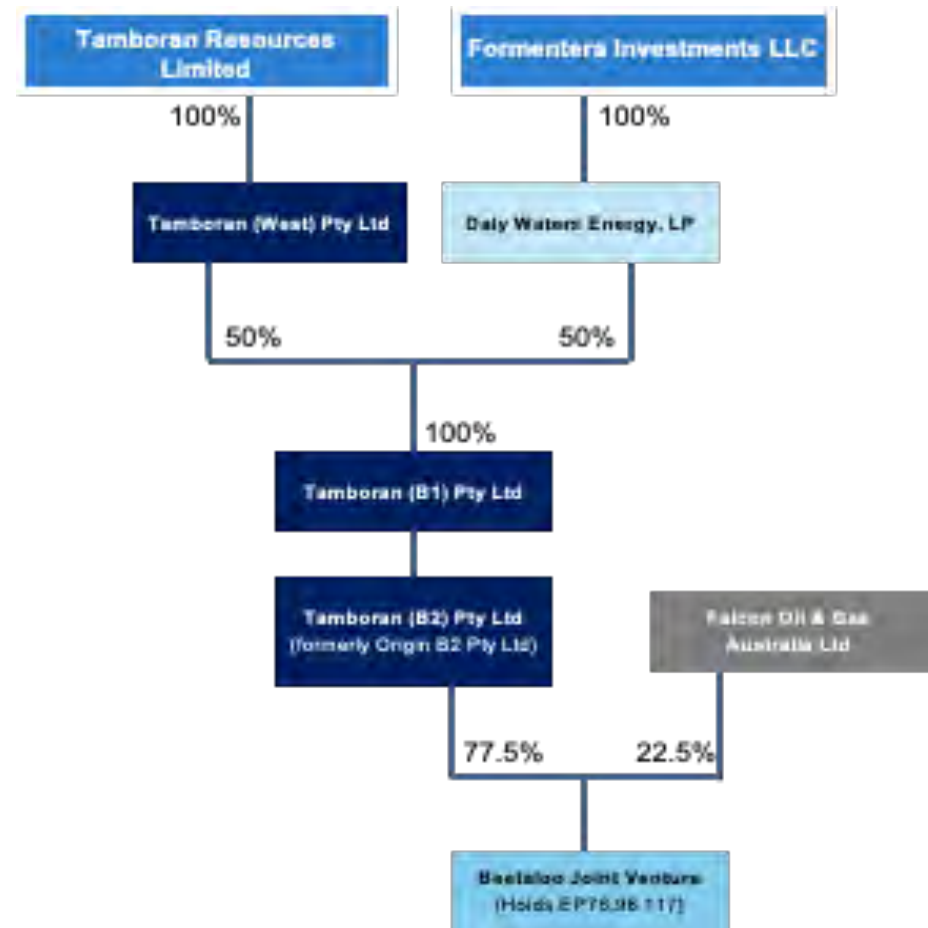
# Introductions

- Tamboran

- Faron – Chief Operating Officer
- Emily – ILUA Advisor
- Matt – Approvals Manager
- Dave A – Land Access Advisor
- Robbie – Site Supervisor

- Daly Waters

- Alex Cote – Head of Australia DWE



## Purpose of Meeting: Appraisal Gas Project

- Tamboran would like to provide an update on our activities and discuss the details of the Appraisal Gas Project with Native Title Holders.
- We would like to answer any questions Native Title Holders and NLC have about the Appraisal Gas Project.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

# Exploration Well Results

## Good gas rate from the well!

- Moving forward with **6 wells in 2 years** to confirm size of gas play
- In 2024 we will:
  - o drill 2 wells from one new pad called SS-2
  - o [REDACTED]
  - o begin civils work on the pad for the temporary facility
- In 2025 we will:
  - o drill 4 wells and seek to sell the gas rather than flaring it (under the NT Beneficial Use of Gas legislation)
  - o construct temporary facilities
- In 2026 we plan to:
  - o sell gas from temporary facilities and create benefits and jobs



**SHENANDOAH S1-H, NORTHERN TERRITORY AUSTRALIA**

# Flaring Gas Vs. Appraisal Gas

## Appraisal gas is flared

- Gas burnt and not used or sold
- Higher greenhouse gas emissions
- No additional financial benefits to NTHs or NT
- Less job opportunities



## Appraisal gas is sold

- Gas is sold into the NT for electricity
- Less greenhouse gas emissions than flaring
- More financial benefits for NTHs
- More job opportunities in construction and operation
- Requires a slightly larger clearing area of ~5 ha to support the compression facilities

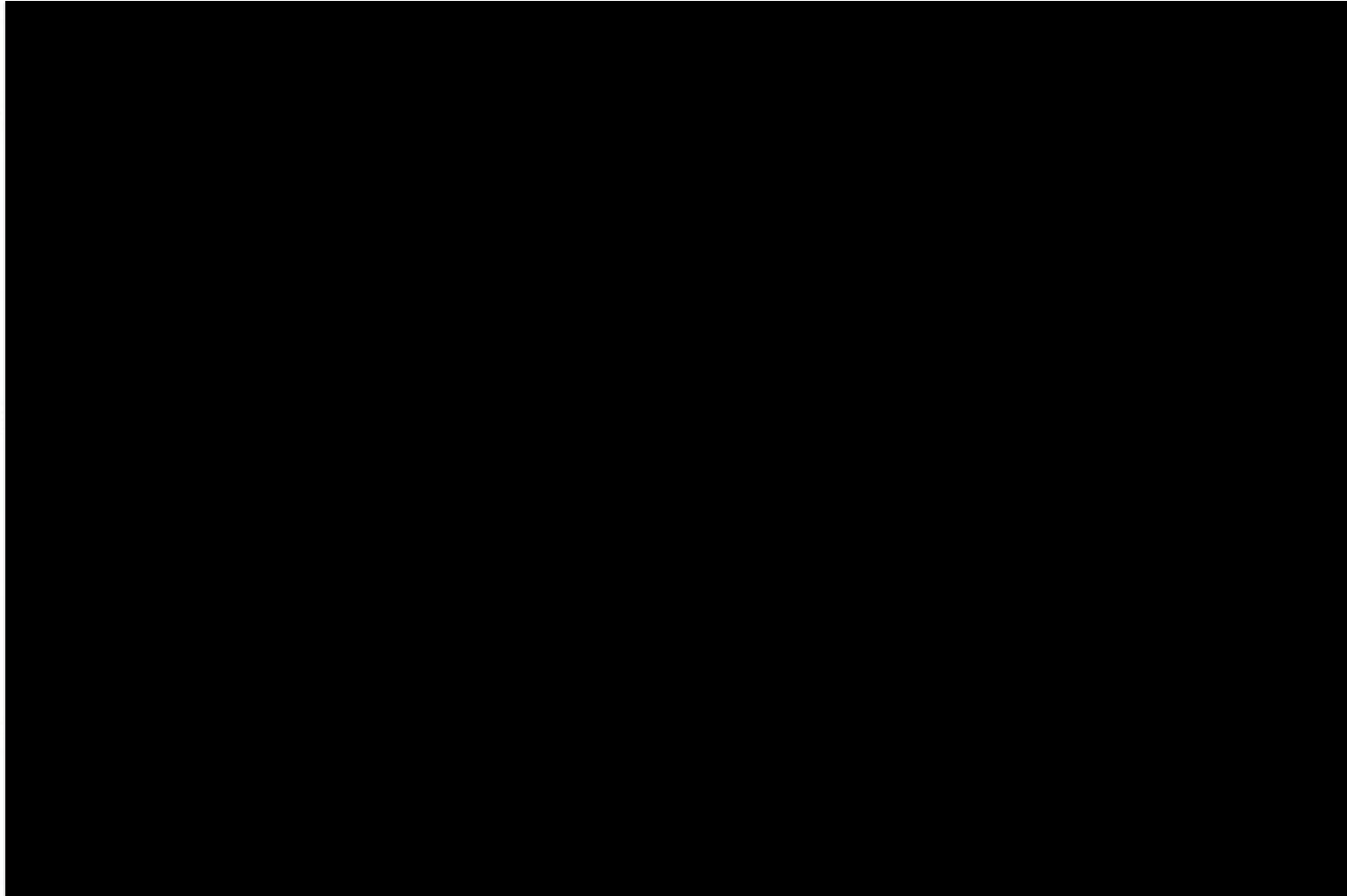


## Project Location

- All activity will be located within Subject Land 2 on EP 98 and EP 117.
- Appraisal gas sale likely to start from Shenandoah S2

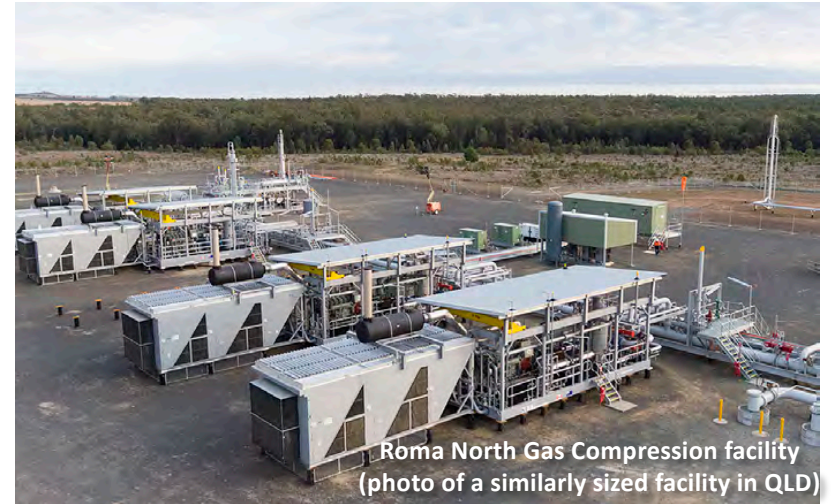
[REDACTED]

[REDACTED]



# Appraisal Gas Project Overview

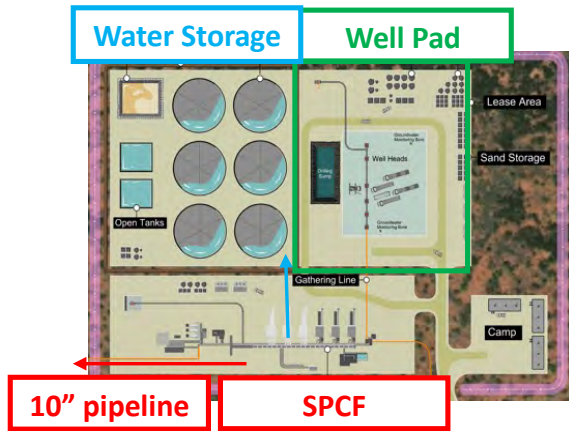
- Tamboran needs more gas information so investors and banks will fund a future production project.
- Flaring of this gas causes greenhouse gas emissions - legislation was developed to minimize flaring and allow the sale of appraisal gas, reducing emissions and increasing community benefits.
- Tamboran proposes to build facilities at the Shenandoah S2 location on the Hayfield Shenandoah Station to allow 50 TJ/day appraisal gas produced from Tamboran's project to be sold instead of flared.
- The Sturt Plateau Compression Facility (**SPCF**) will be constructed to pressurise the gas so that it can enter the Amadeus Gas Pipeline (AGP) via a new 35km pipeline called the Sturt Plateau Pipeline (**SPP**).
- APA are working with NLC/NTH to determine the new pipeline route, but it should be approximately 35 km.
- The gas will likely be sold into the domestic Northern Territory market for NT power supply.



[REDACTED]

[REDACTED]

# Appraisal Gas Project Overview – sale of 50 TJ per day



Gas and water from first 6 wells from SS-2 pad<sup>1</sup> are piped into the front of the facility via small diameter pipe

Gas is compressed so it can be put in the pipeline to Darwin that is at a higher pressure than our wells – compressor design and number of compressors to be finalized after 2024 well tests

Water is taken out of the gas and put in the storage tanks to reuse



Well Pad



Typical Water Storage Tank

This is the only new addition to our past exploration programs



<sup>1</sup>There will likely be additional wells and one or more pads added via gathering lines to the SPCF for testing within the 2 year period after startup and before production commences.

There will be a flare line that only operates for safety reasons and plant upsets if needed

## Appraisal Gas Project Overview – Land Use Areas



Add ~6 hectares for water storage tanks



Add ~5 hectares for SPCF (facility)

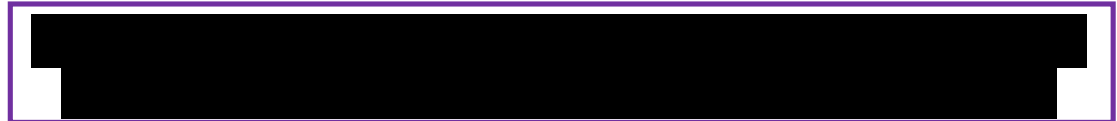
All components of appraisal gas project currently planned for a single well pad

2 wells on SS-1 Pad and building SS-2 pad for minimum 6 wells (additional ~5 hectares of pad clearing for wells)

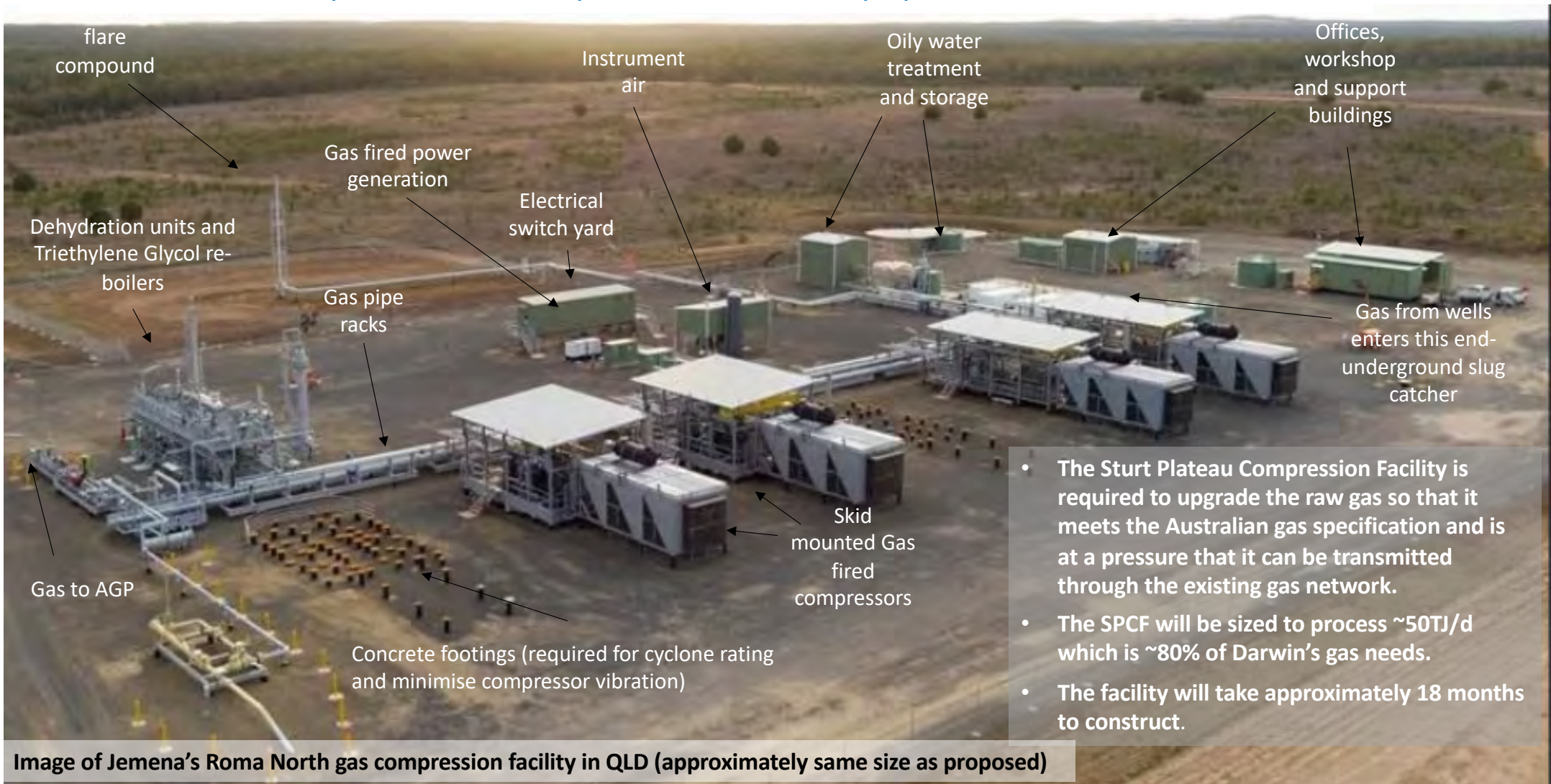
Access road extended 3.5 km north of SS-1 pad (same design)

Additional water storage needed on SS-2 pad for more well completions (additional ~6 hectares of pad clearing for tanks same procedure used to install & monitor)

Sturt Plateau Compression Facility to be connected to SS-2 pad (additional ~5 hectares of pad clearing for facilities)

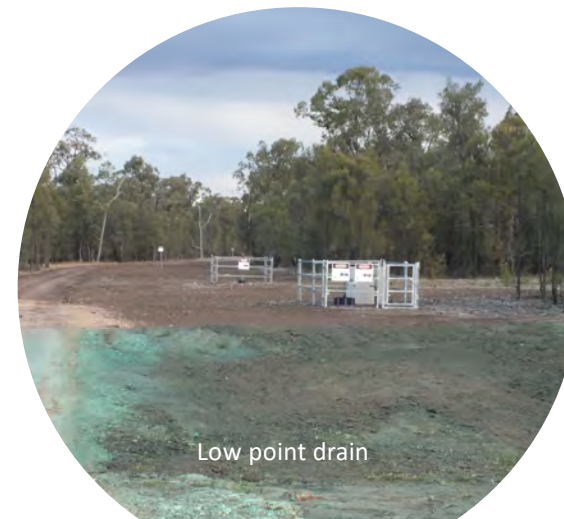


## Sturt Plateau Compression Facility – overview of equipment



# Appraisal Gas Project Overview: Gathering Lines

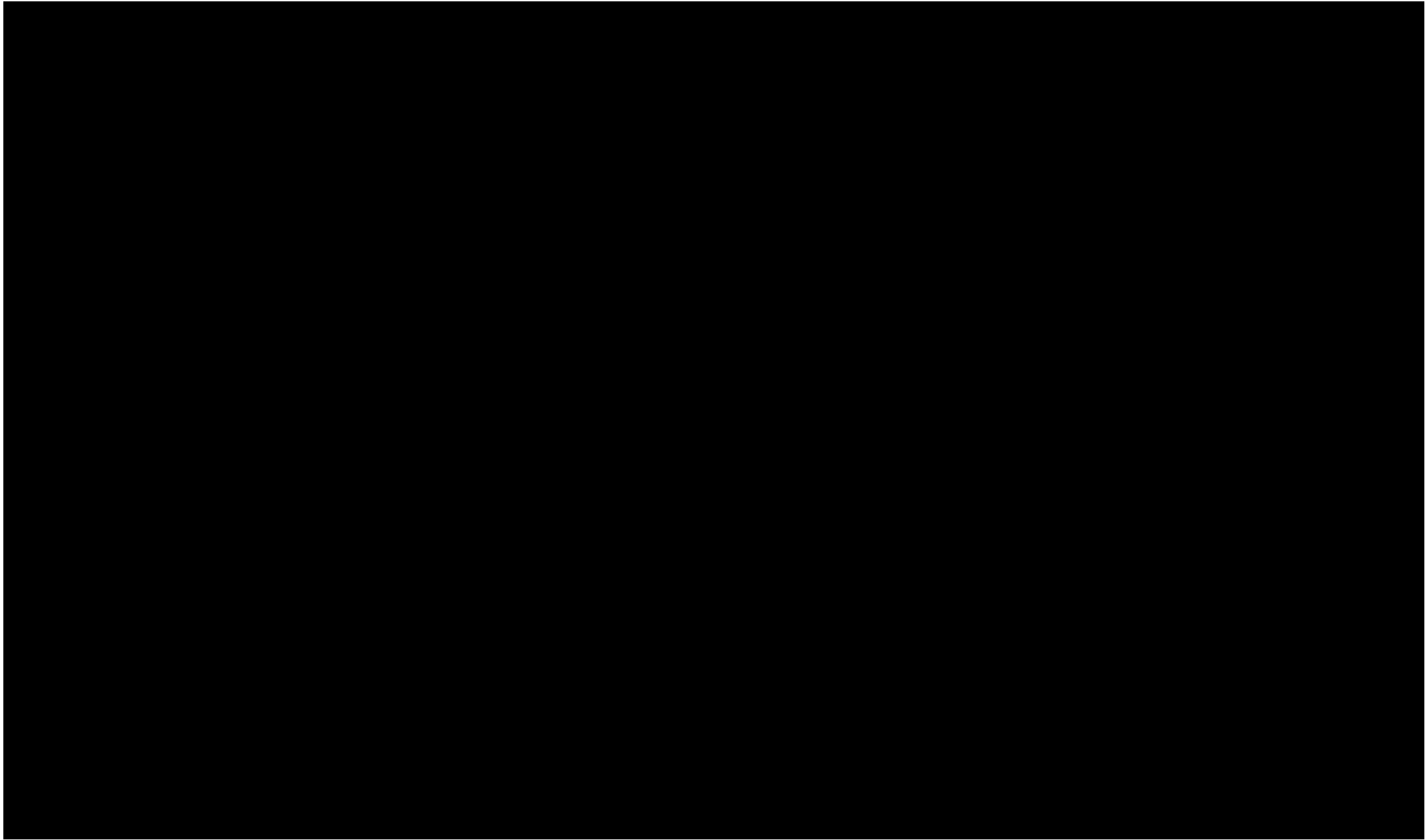
- Future sites will be connected to the Shenandoah S2 location by gas and water pipelines
- These are likely to be buried - though temporary above ground water pipelines may be used (gas lines will be buried)
- Allow gas to be sent to the SPCF and water to wastewater tanks
- Allow wastewater to be recycled between sites to reduce water
- ~14m wide right of way with valve pits, low point drains and high point vents



## Sturt Plateau Pipeline (SPP) - gas for NT

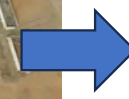
- New 35-40km 10-inch pipeline will be required to connect Sturt Plateau Gas Compression Facility to the Amadeus Gas Pipeline (AGP).
- APA will build, own and operate the Pipeline.
- Tamboran and the Beetaloo JV will pay APA a tariff so that gas from the Compression Facility can be delivered on to the AGP via the SPP.
- Approvals to commence in 2024, with construction planned for 2025.
- Construction of the pipeline is anticipated to take 12 months.
- The pipeline route will be selected with NTH and pastoralist input.
- Similar to the NGP – there are likely to be employment opportunities available in the construction of the pipeline.



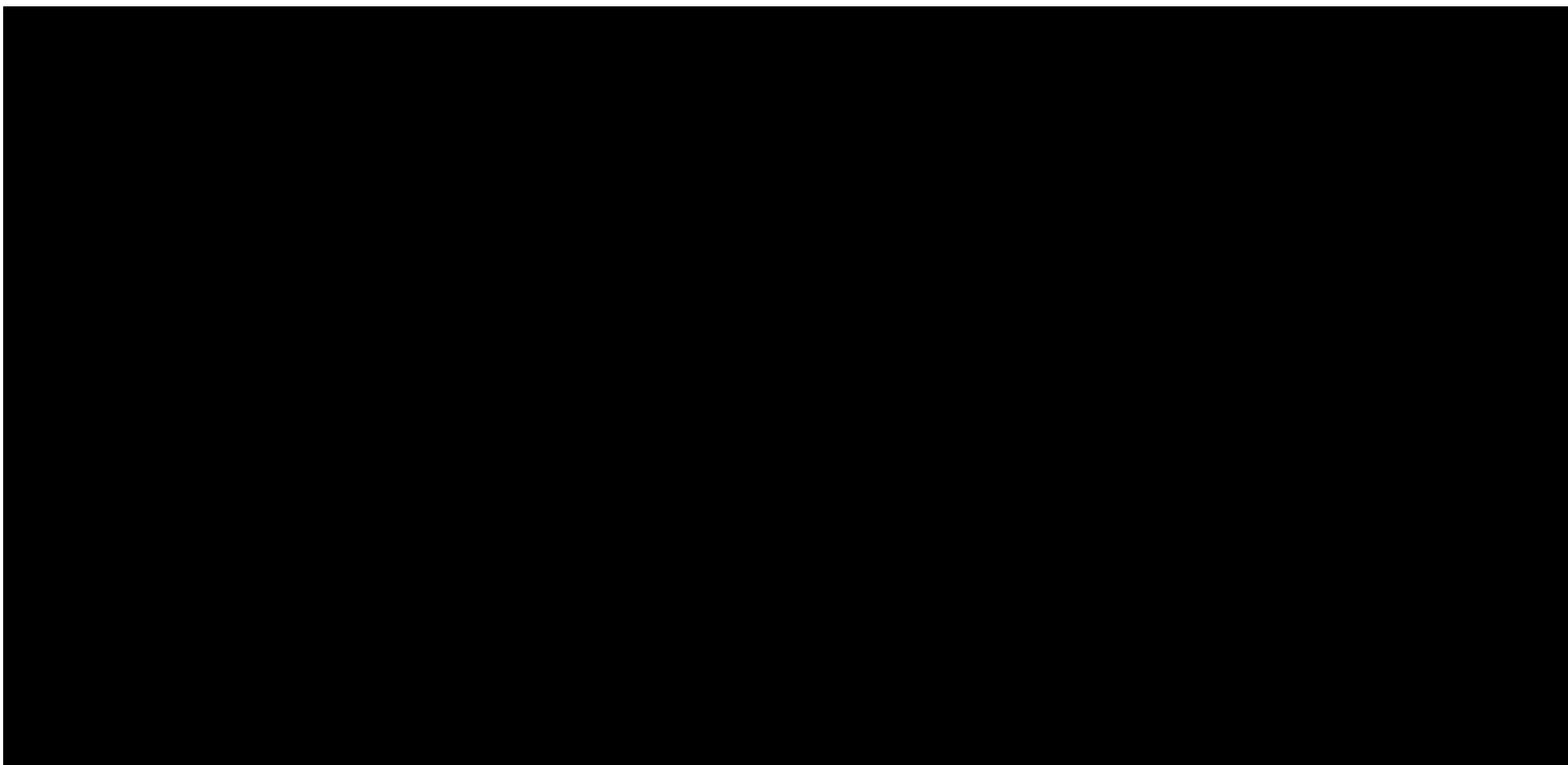


## End of Appraisal Gas Project

- At the end of the appraisal phase of the project, Tamboran will either:
  - a) remove all facilities, plug and abandon the wells, and rehabilitate the site consistent to surrounding land use, Code of Practice and Exploration Agreement requirements, or

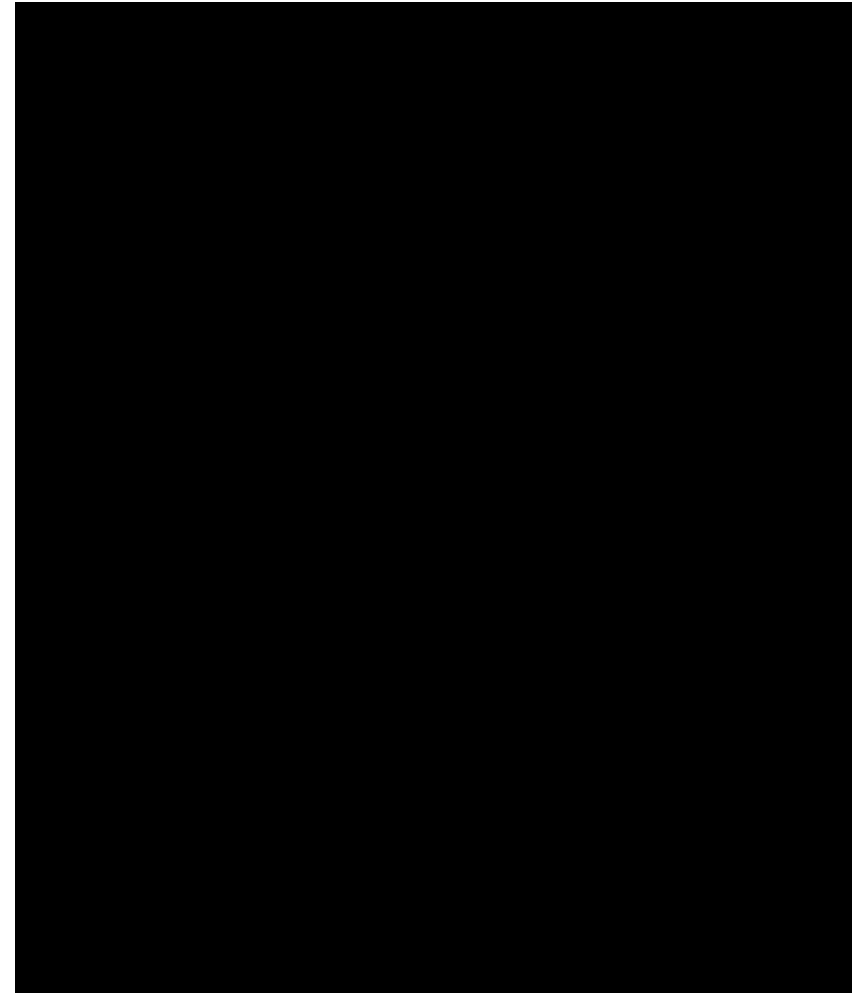


Example of a site being progressively rehabilitation



## Appraisal Gas Project: Approvals

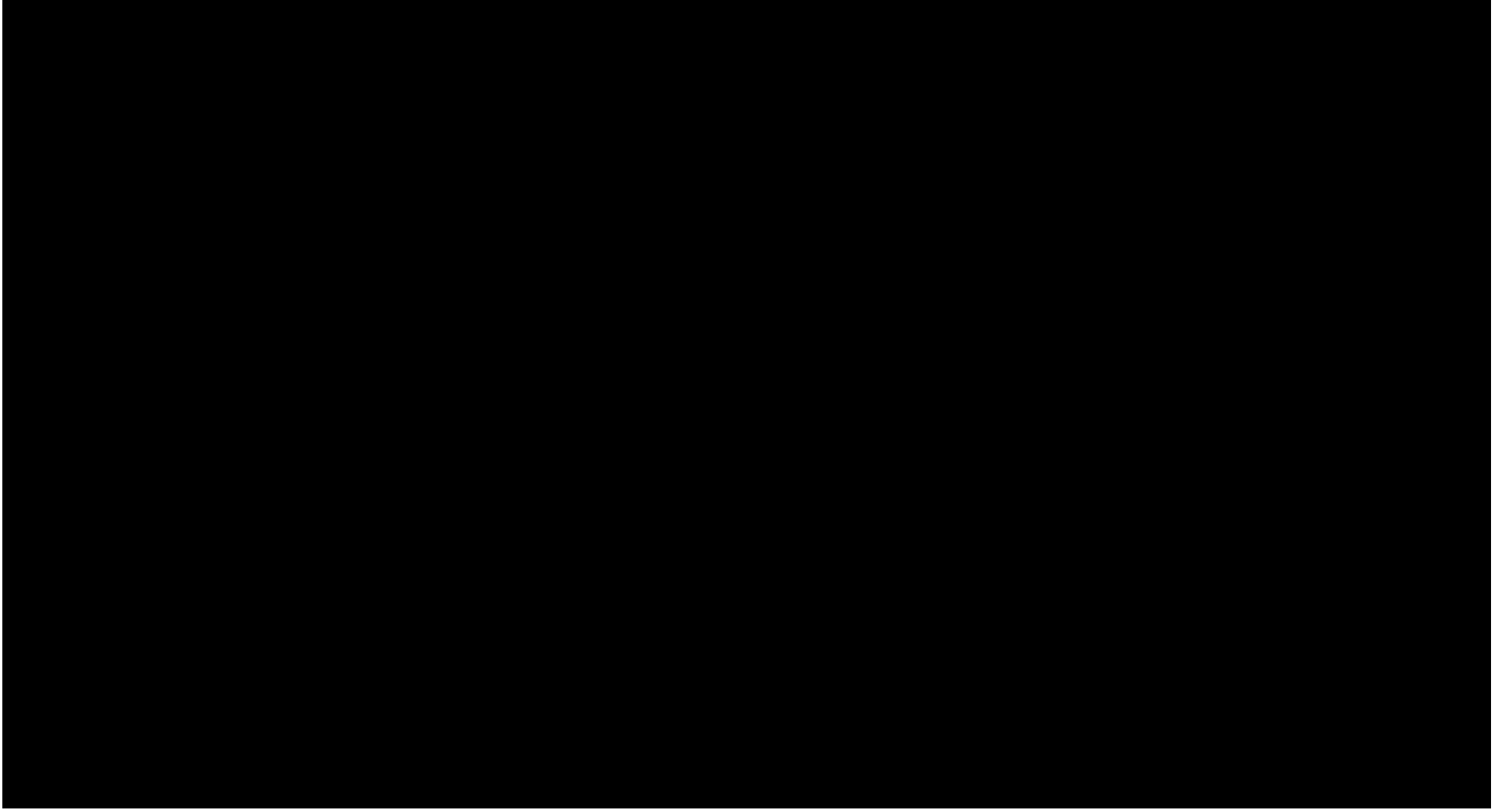
- Some appraisal gas project information provided to NLC as part of the 2023 and 2024 Sacred Site Clearance requests.
- EMP covering Wells and Gathering Lines has been submitted to DEPWs for approval.
- New EMP covering appraisal gas sale and compression facility planned to be submitted Q2 2024.
- The new EMP will be submitted to the NLC for comment as per E&A agreements and will cover:
  - impact assessments to flora and fauna, noise and vibration, emissions, cultural heritage, groundwater, surface water soils etc.
- NT Environment Protection Act referral is not anticipated.
- Commonwealth EPBC trigger not anticipated.
- Beneficial Use of Gas approval to be submitted to DITT in Q2 2024.

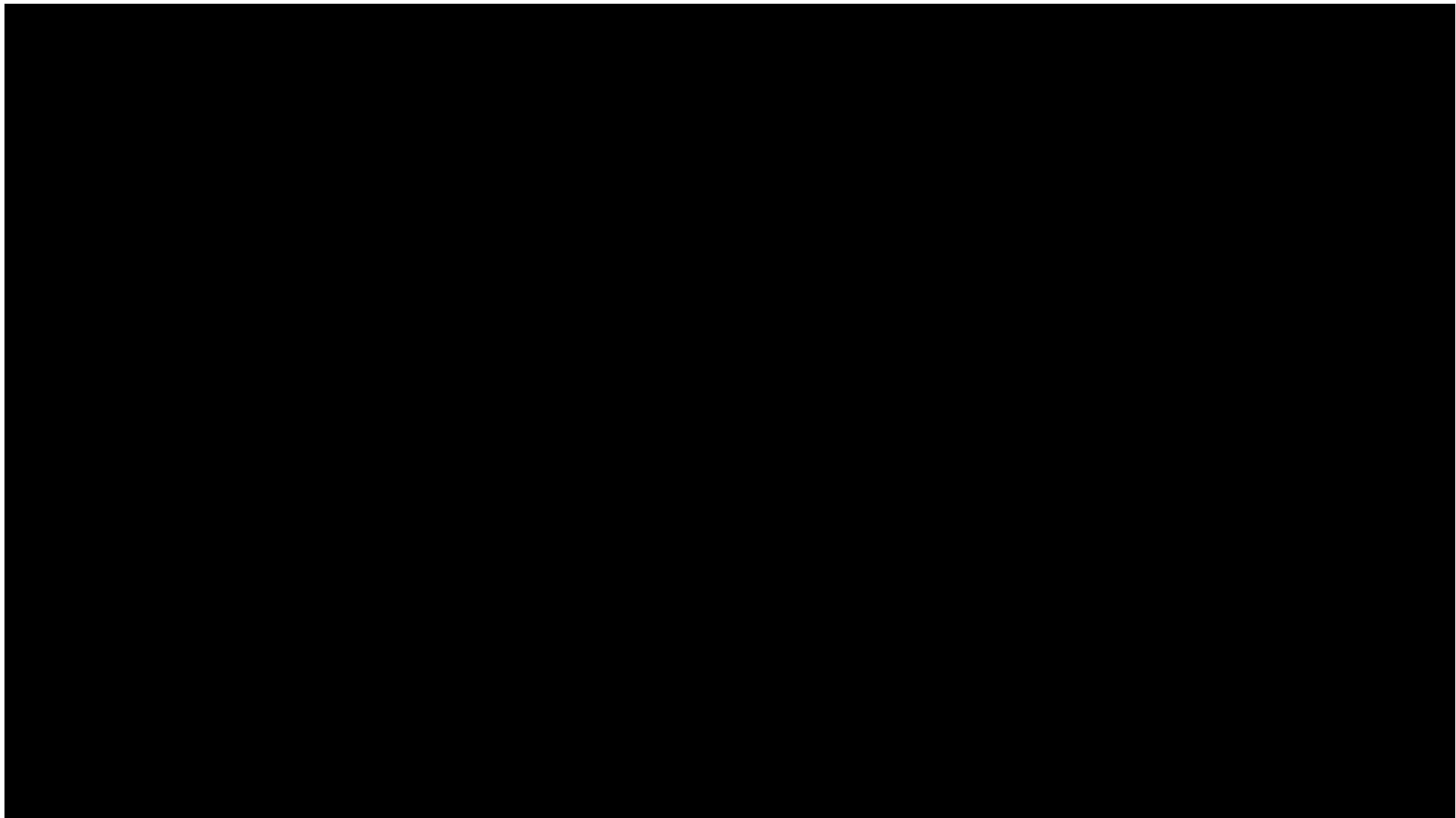


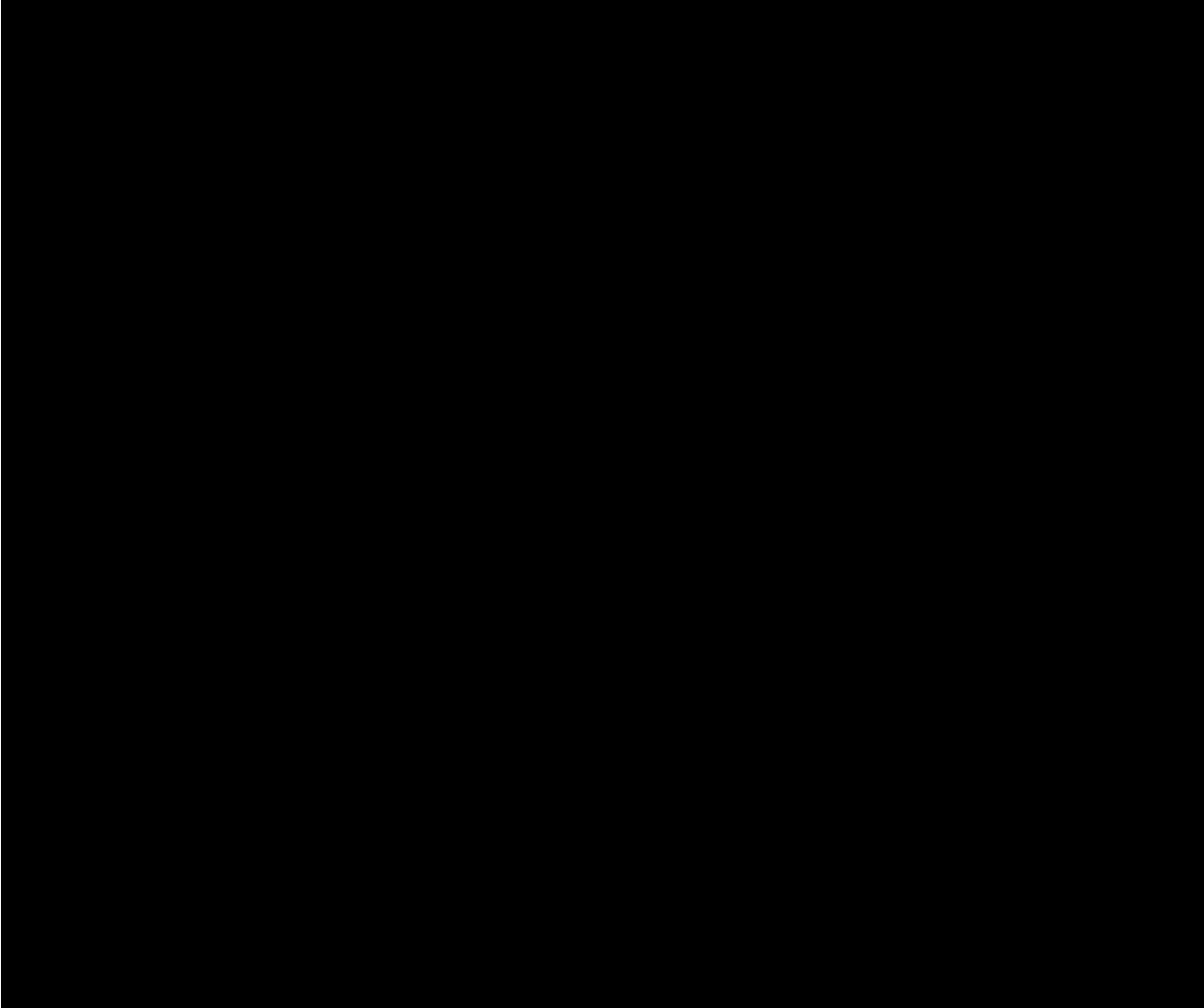
# Stuart Plateau Compression Facility: EMP

- New EMP covering the construction and operation of the of the SPCF and Appraisal Gas Sale at the Shenandoah S2 location
- EMP currently being drafted, with sacred site clearance scheduled for 2024 (via NLC)
- Main Environmental aspects and controls:
  - **Minimise Air emissions**- Low NOX compression, leak detection and minimization of venting/ flaring
  - **Minimise Noise**- using exhaust silences on compressors, large separation distance to sensitive receptors
  - **Eliminate and reduce GHG emissions**- 90% reduction compared to flaring.
  - **Minimise impacts to groundwater**- existing WEL with small 10-20ML water used for construction. No impacts to quality of water resources
  - **Minimise Disturbance**- 5ha- use of existing laydown to be used for proppant storage
  - **Prevent Bushfire** - firebreaks, separation distances and fire detection
  - **Safely manage wastewater**- oily water separation and treatment to remove oil residue from compressors
  - **Reduce erosion and sediment releases**- erosion and sediment controls in place to prevent erosion
  - **Minimise impacts to fauna and stock**- site fenced to prevent animal and livestock access
  - **Prevent and manage weeds** - all equipment and vehicles washdown and certified weed free
  - **Protect sacred sites**- all areas cleared by NTH to ensure no impacts
  - **Undertake rehabilitation** – all sites to be rehabilitated to pre-disturbance levels

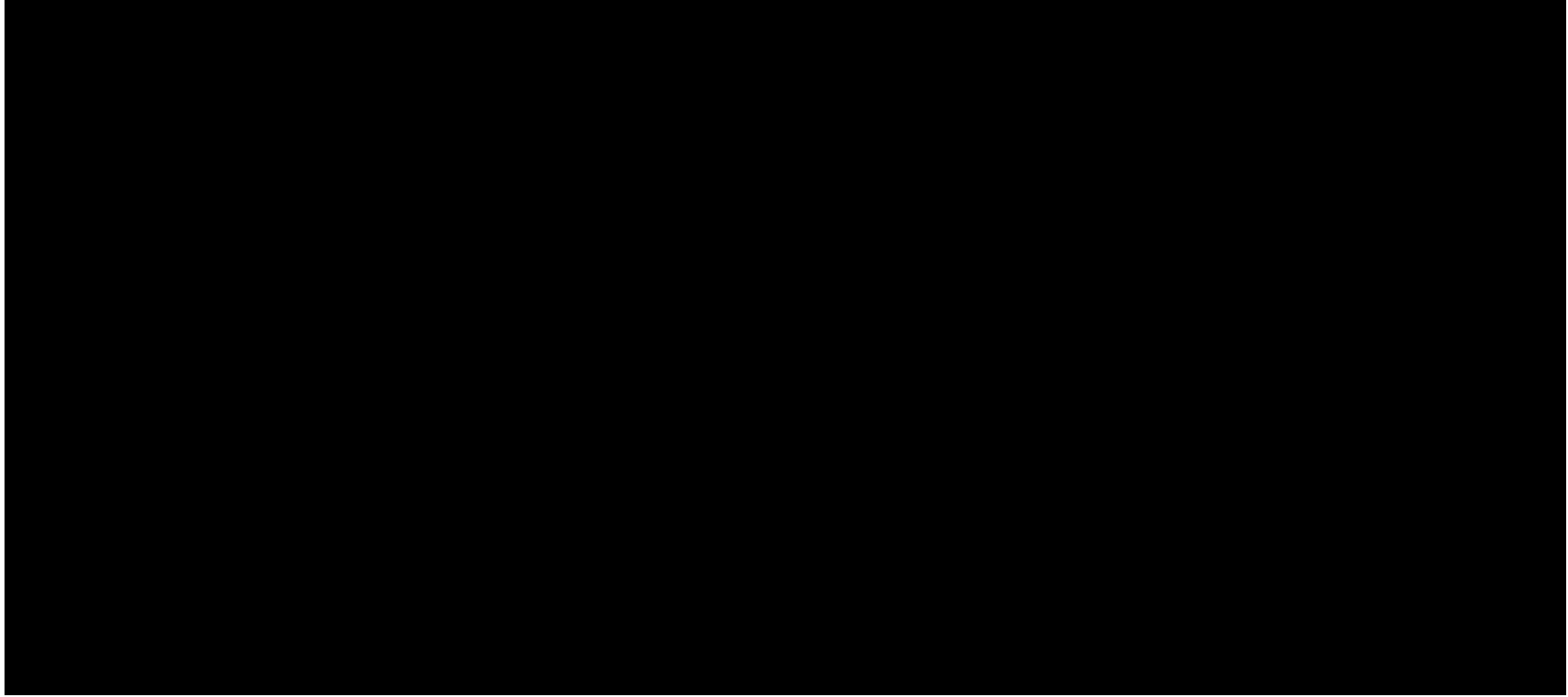


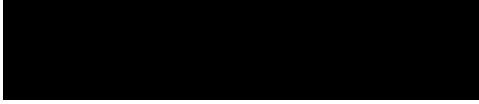


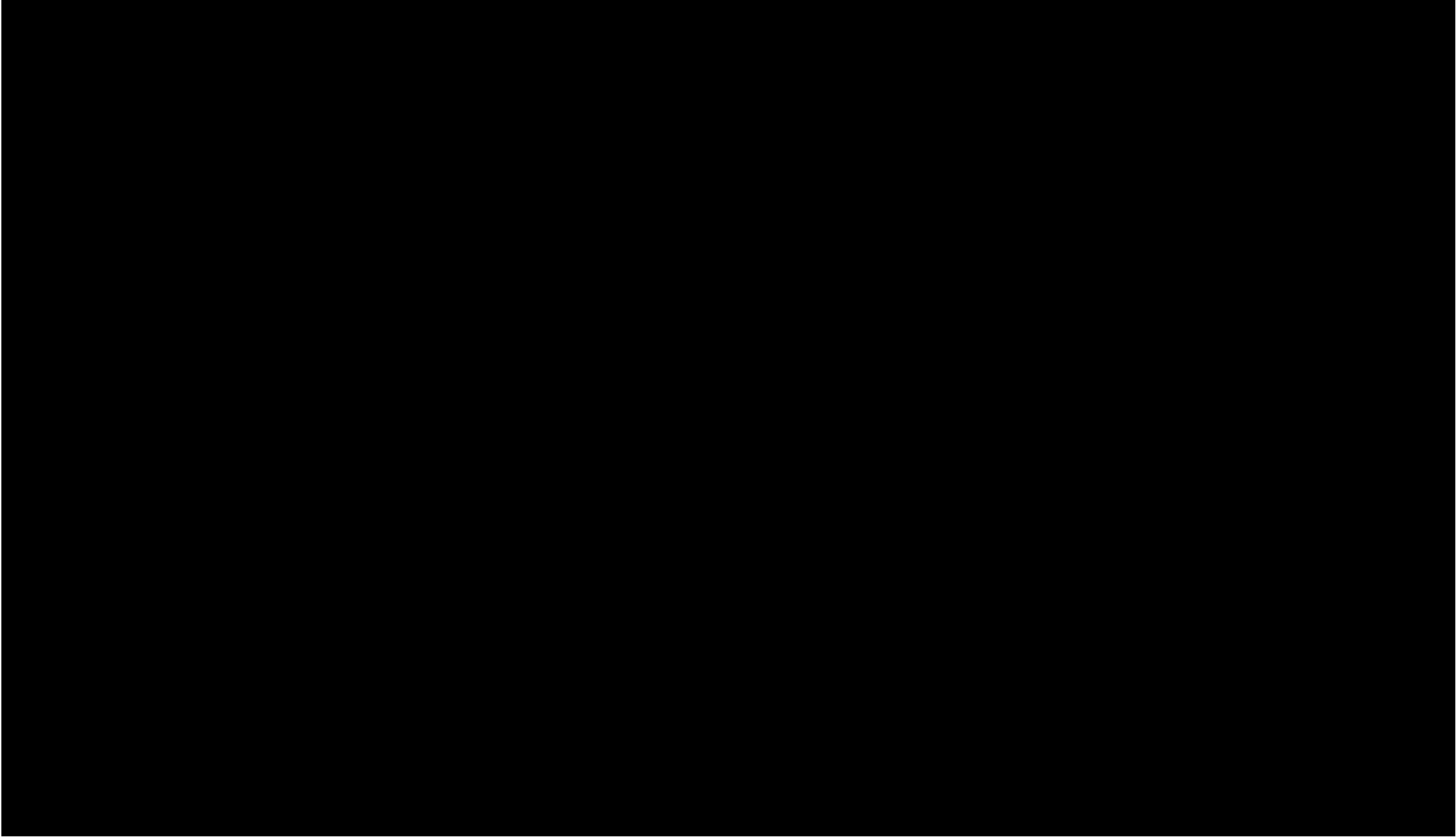


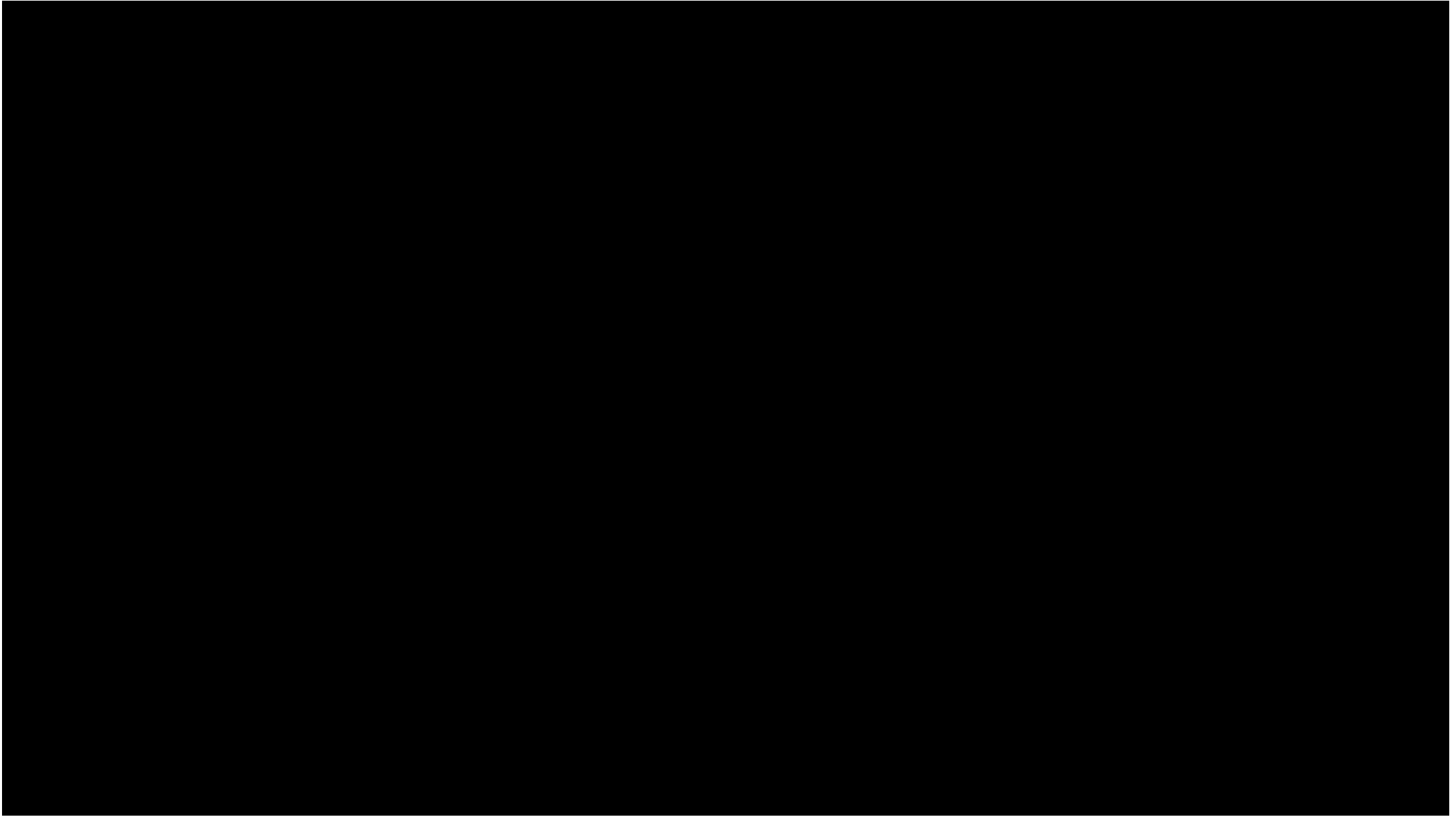


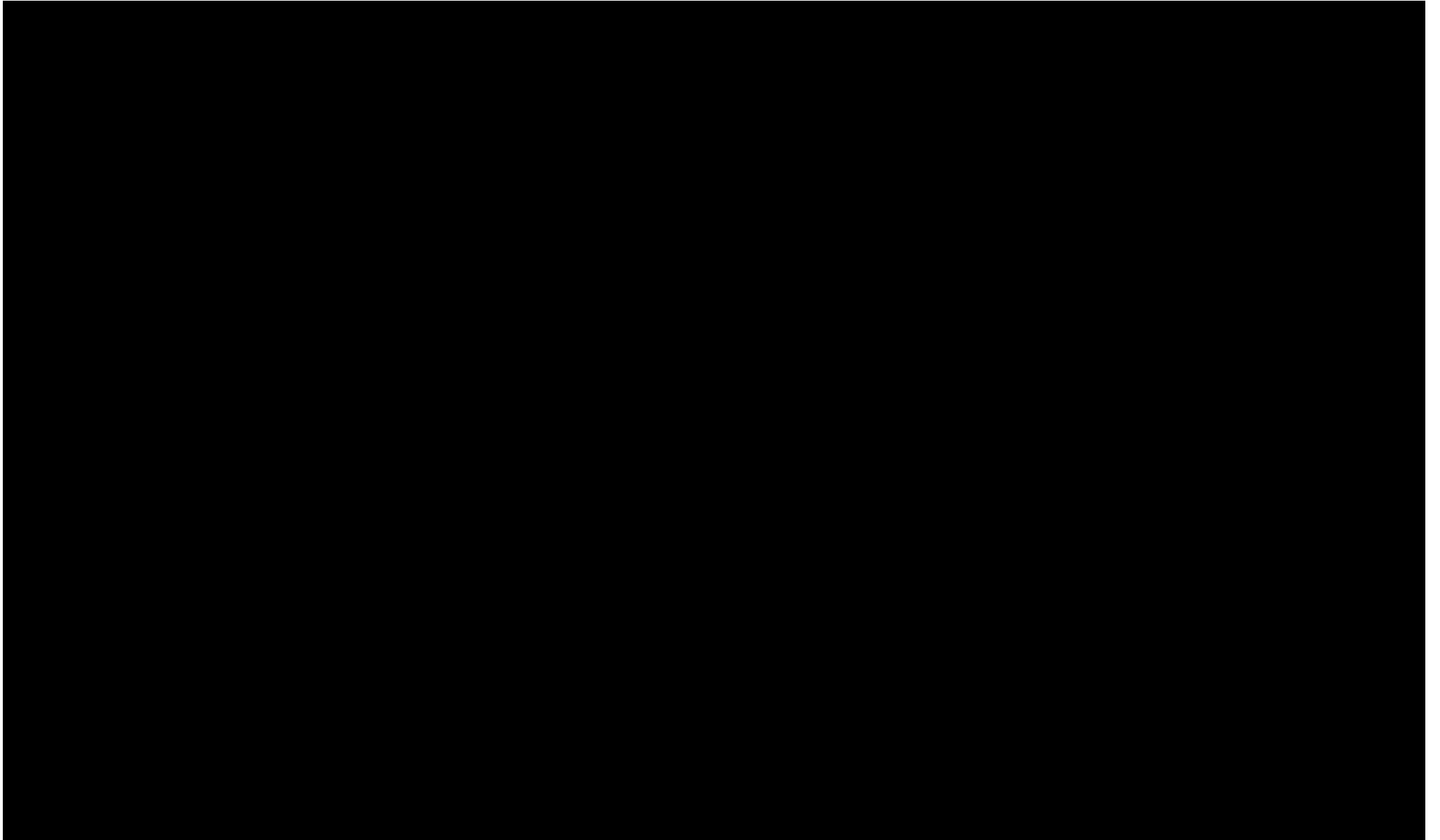












# **Appendix J.1.2 09 240306 Draft Tamboran 2024 Work Program Presentation**

**From:** [Emily Beresford-Cane](#)  
**To:** [REDACTED]  
**Cc:** [Faron Thibodeaux](#); [Matt Kernke](#)  
**Subject:** Draft Tamboran 2024 Work Program Presentation  
**Date:** Wednesday, 6 March 2024 2:15:25 PM  
**Attachments:** [Draft Tamboran 2024 NTH Work Program Presentation.pdf](#)

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Hi [REDACTED]

Please find attached Draft Presentation for the 2024 Work Program meeting to be held in Elliott on the 19th March 2023.

We will bring a number of large maps for the meeting as well.

Appreciate any feedback or questions you have on the attached.

Kind regards

Emily

# Tamboran Beetaloo Joint Venture Project Work Program Meeting

March 2024

**Confidential**



# Agenda

1. Purpose of Work Program Meeting
2. Beetaloo Roadmap and Exploration – recap
3. 2023 work completed/underway
4. Proposed 2024 work program
5. Appraisal Gas Project
6. New sacred site clearances
7. Approvals - EMP's and Water Extraction License
8. Near term opportunities
9. Next steps and questions



# Purpose of Work Program Meeting

- Purpose of Work Program meeting is to talk through what exploration activity has occurred on the Exploration Permits throughout 2023
- Talk through the results of 2023 Exploration Activity
- Provide an overview of the exploration activity planned for 2024
- Talk about what Government approval documents have or will be provided to the NLC

# About Tamboran

## Introducing Tamboran

We are a publicly listed Australian company with our headquarters in Sydney and staff across Australia and the USA. We are committed to creating value for our shareholders, communities, Territorians and Australians by appraising and developing the gas resources of the Beetaloo Basin. We strive to follow and exceed the example set by Origin in community engagement since 2014 and will continue to focus on economic, development and employment opportunities for Native Title Holders and local communities.

## Our Vision

To play a role in the global energy transition by investing in the development of low CO2 unconventional natural gas resources in the Beetaloo Sub-basin of the Northern Territory of Australia and to become a Net Zero carbon emissions gas producer for our equity share of Scope 1 and Scope 2 emissions when the Company achieves commercial gas sales.

## Strategy



Target is to become a Net Zero equity Scope 1 & 2 emissions producer



Focused, high growth Beetaloo strategy



High quality assets with significant scale



Low-cost development targeting multiple markets, premium pricing



Expertise in unconventional E&P development

## Sustainability



Health & Safety



Climate Change



Environment



People

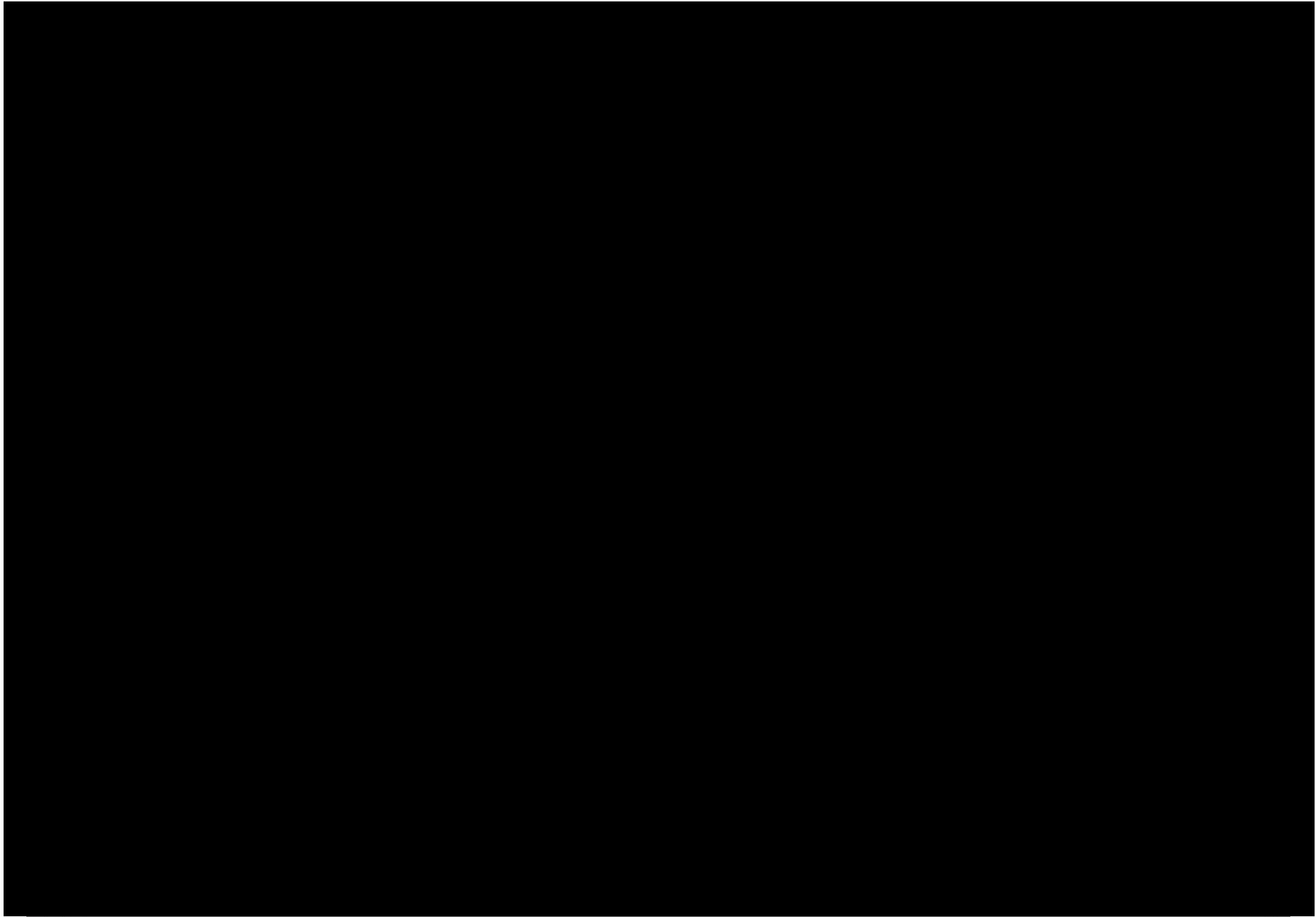


Community



Economic Sustainability





# Operations update – 2023 was a big year for the Beetaloo

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## Key Exploration Results

- Tested the Amungee NW 2H well
- Drilled the Amungee NW 3H well; moved to Shenandoah S area
- Shenandoah S 1H well was successfully drilled, stimulated and tested with economic flow rates of 6.4mmcf/d / 1000 m of lateral - a very good result.

## Setting the project up for success

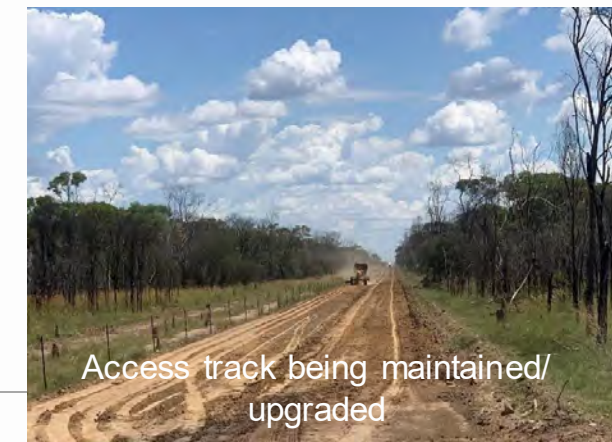
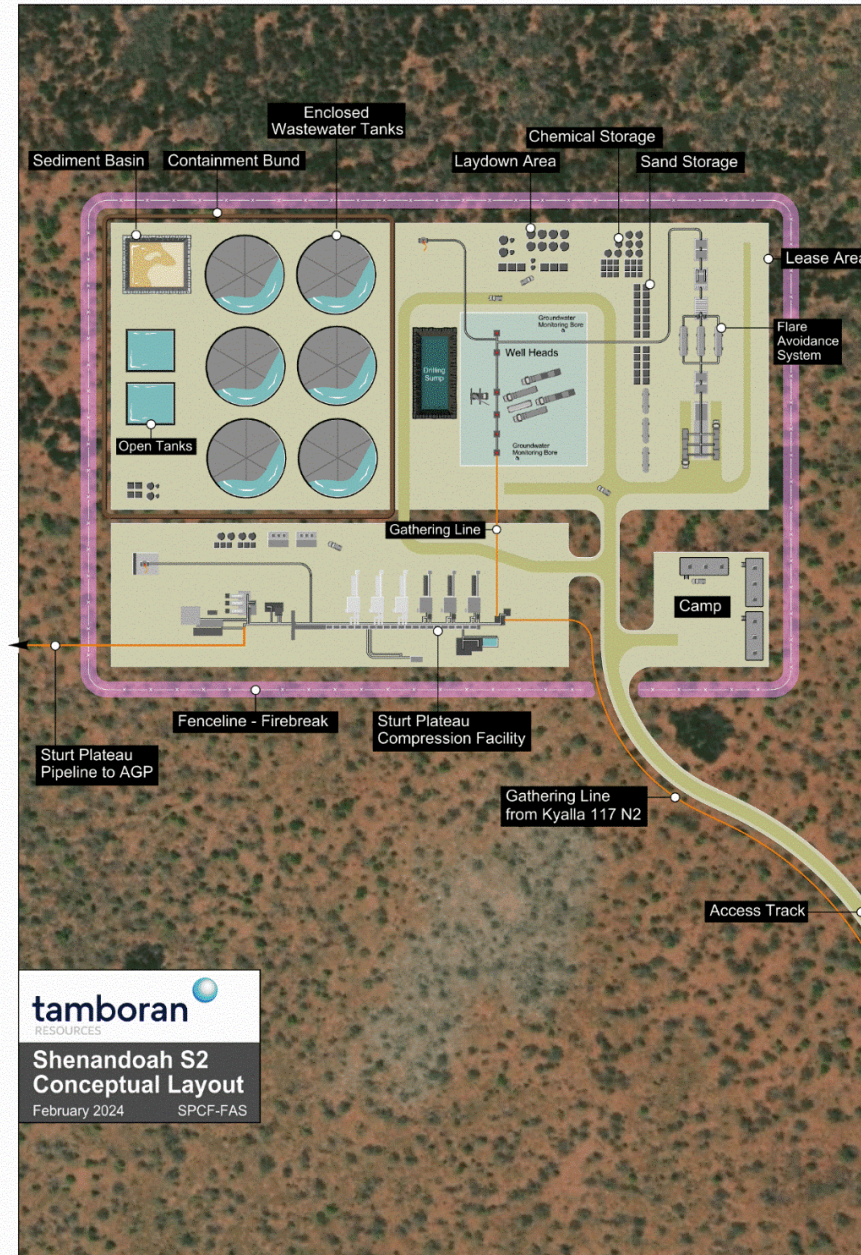
- H&P rig mobilised the super-spec FlexRig® Flex 3 Rig (2023)
- Entered an agreement with Liberty Energy to bring in modern frac fleet (2024)
- Extractive mineral exploration licences submitted to find sand (2024)

# Proposed 2024 Work Program

- Continue well testing the **Shenandoah S-1H** well on Kyalla 117 N2
- Construct the new **Shenandoah S2** location, approximately 3.5km NW of Kyalla 117 N2 (civils and water bores)
- Drill, stimulate and well testing of **2 new wells on the Shenandoah S2** location
- [REDACTED]
- Commence construction of the **Sturt Plateau Compression Facility** for future appraisal gas sale (civils and footings)
- Construction of new location **Shenandoah North A** and drilling of a new E&A well (contingent)

# Shenandoah South 2 Construction

- Construction of new Shenandoah S2 including lease pad, camp pad, gravel pit, access tracks and laydown yard
- Located ~3.5km NW of existing Kyalla 117 N2
- Land clearing and civil construction to support activities
- Drilling water bores



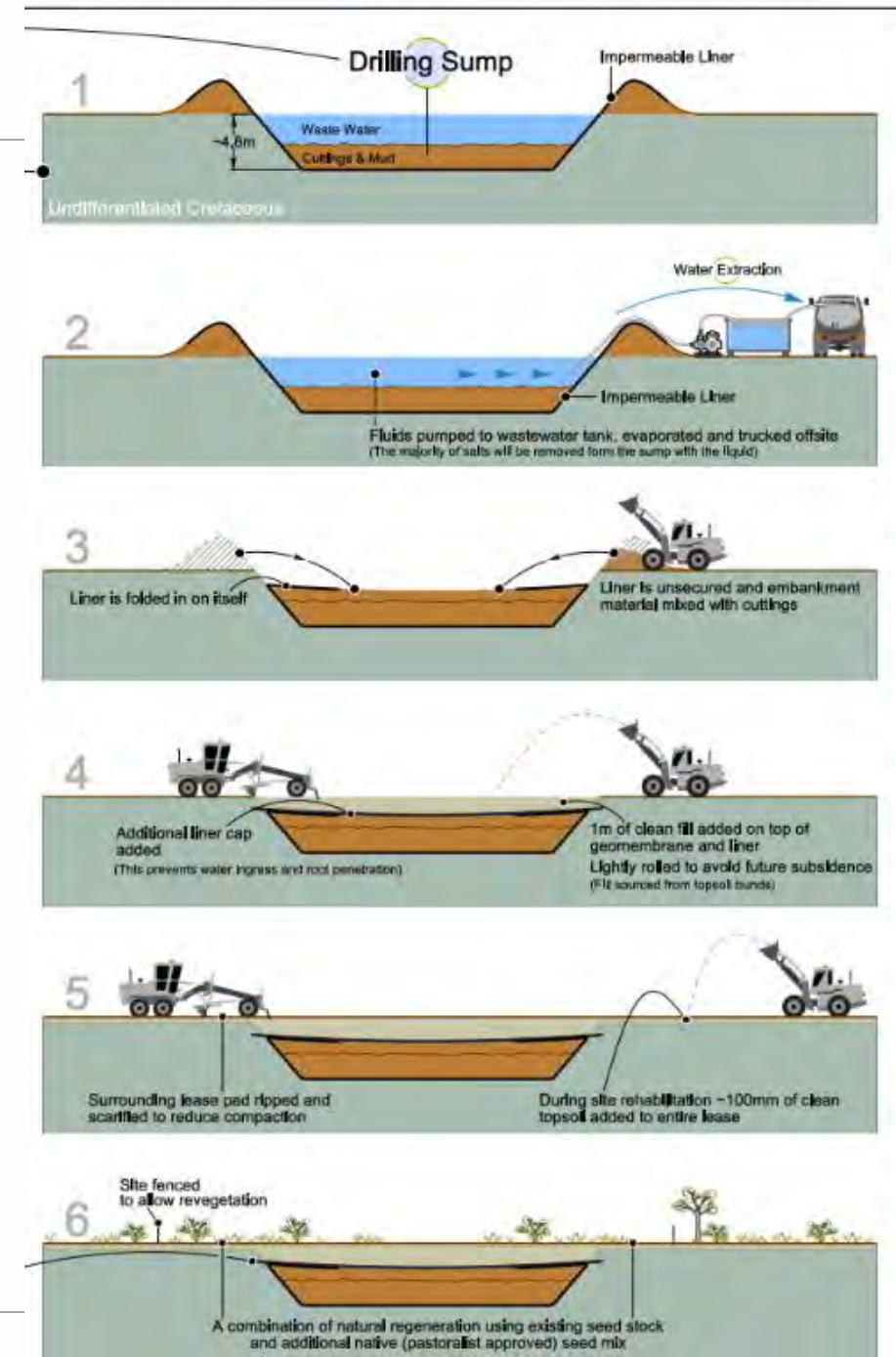
# Drilling, stimulation and testing 2 new wells

- Similar activities as before-with larger horizontals
- Drilling of 2 new 3000m horizontal wells on Shenandoah S2
- Stimulation and well testing up to 360 days
- Wastewater storage and evaporation

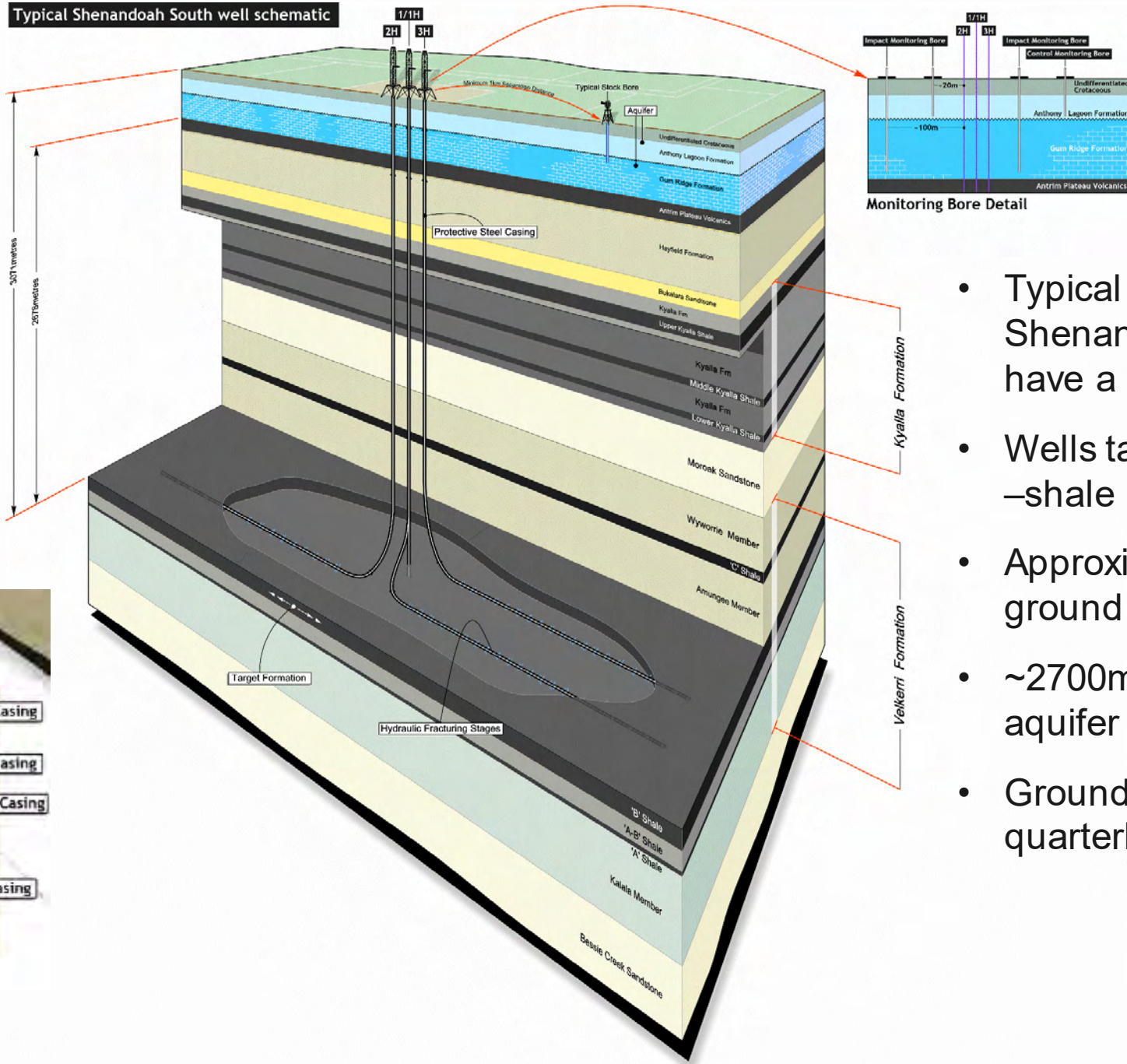


# Drilling cutting and mud mix bury cover

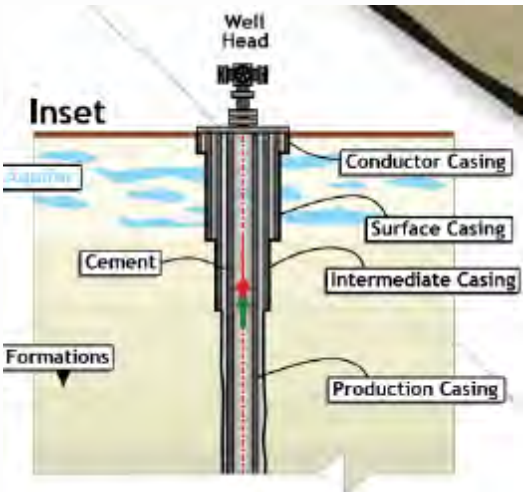
- Where safe for the environment, drilling muds and cuttings will be disposed of onsite via mix-bury cover.
- Cuttings from rocks is the largest source of waste.
- Salt is the main compound which can be managed through capping.
- Vegetation will regrow on the capped sump similar to landfills.



Typical Shenandoah South well schematic



Multiple string of cement and steel protect aquifers



- Typical well schematic- noting Shenandoah Nth A will not have a horizontal
- Wells targeting the Velkerri B –shale
- Approximately 3,100m below ground level
- ~2700m below the closest aquifer
- Groundwater is monitored quarterly

# Shenandoah North A

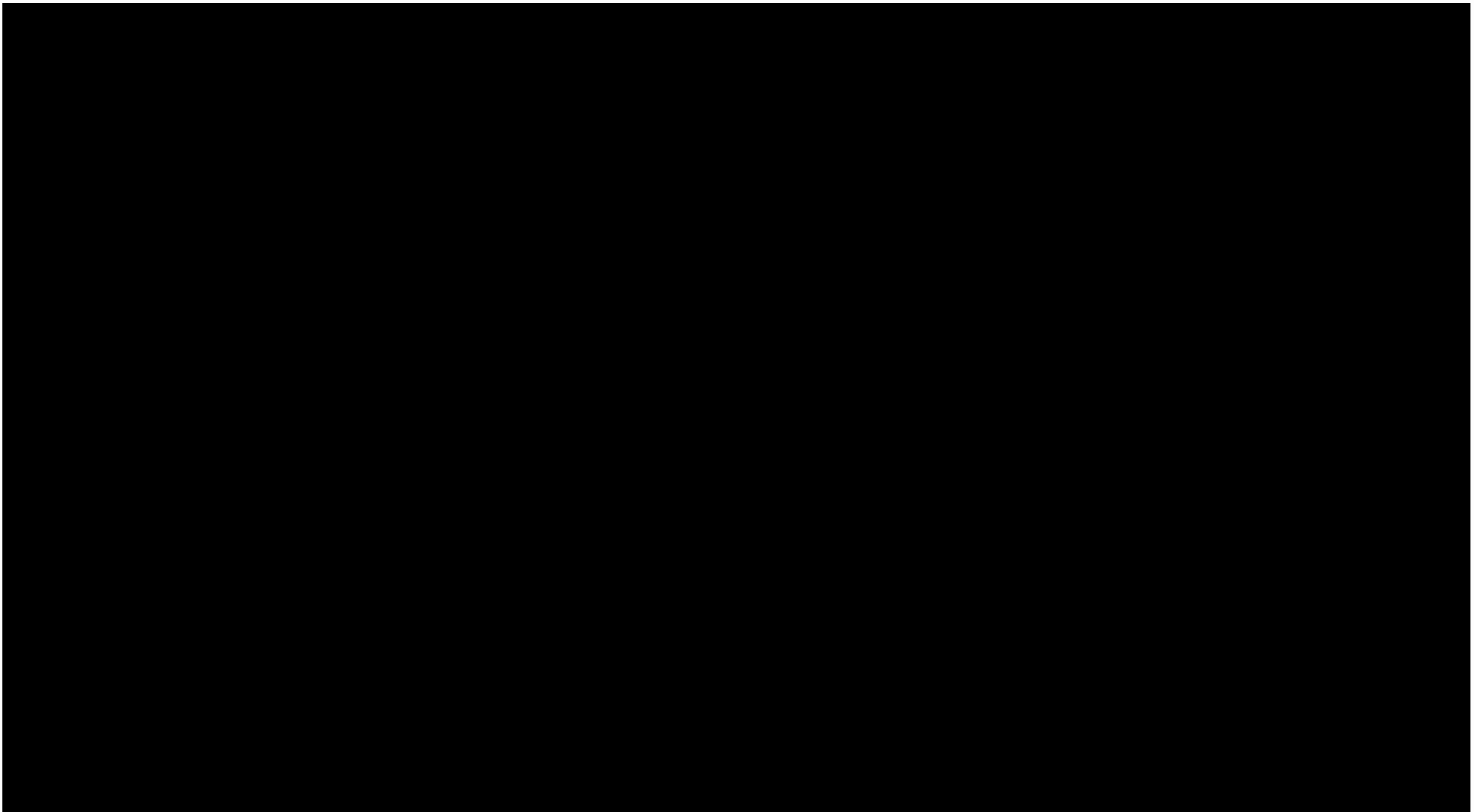


- Located within Subject Land 1
- Construction of new 3 ha Shenandoah NA including lease pad, camp pad and access tracks, land clearing and civil construction
- 2024/2025
- Drilling water bores
- Drilling of a vertical stratigraphy well
- Example provided is Amungee NW 1 being drilled

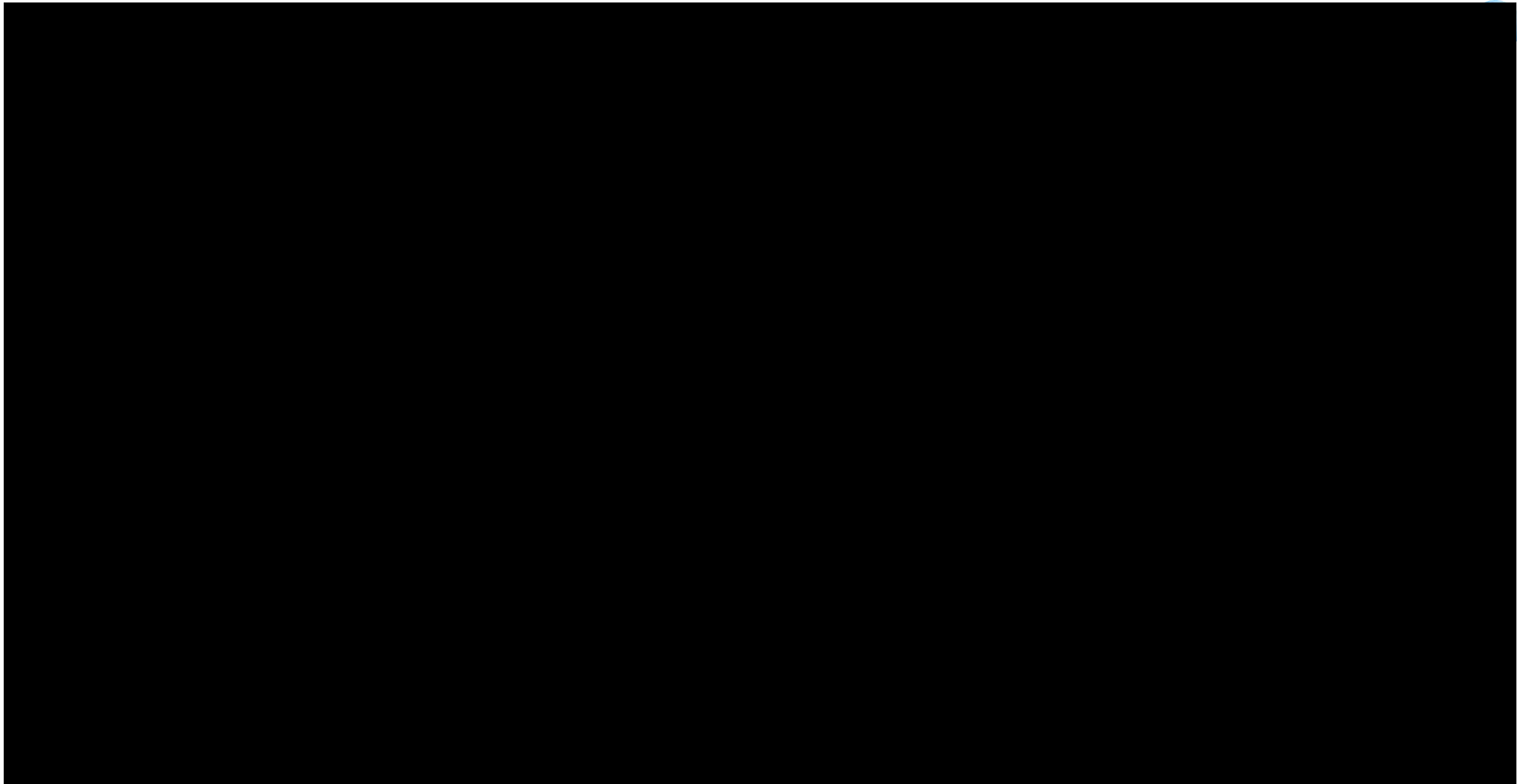


Drilling rig









# Appraisal Gas Project

## ➤ Longer term appraisal

- Tamboran needs to produce gas during appraisal to test the underlying shales prior to investing in a development.
- This will allow the gas to be used for power generation in NT rather than the gas being flared.
- The sale of appraisal gas will increase financial and community benefits to Native Title Holders and will also decrease greenhouse gas emissions.

## ➤ Appraisal gas sale options

- Appraisal gas is proposed to be generated from the 2 wells drilled on Shenandoah S2 in 2024 - new wells and locations will feed into the plant in the future (2025 and 2026).
- It is proposed that a temporary compression facility [REDACTED] will be constructed.

- [REDACTED]
- [REDACTED]



Example of small compression facility

# Flaring Gas Vs. Appraisal Gas

## Appraisal gas is flared

- Gas burnt and not used or sold
- Higher greenhouse gas emissions
- No additional financial benefits to NTHs or NT
- Less job opportunities



## Appraisal gas is sold

- Gas is sold into the NT for electricity
- 90% less greenhouse gas emissions than flaring
- More financial benefits for NTHs
- More job opportunities in construction and operation
- Requires a slightly larger clearing area of ~6 ha to support the compression facilities

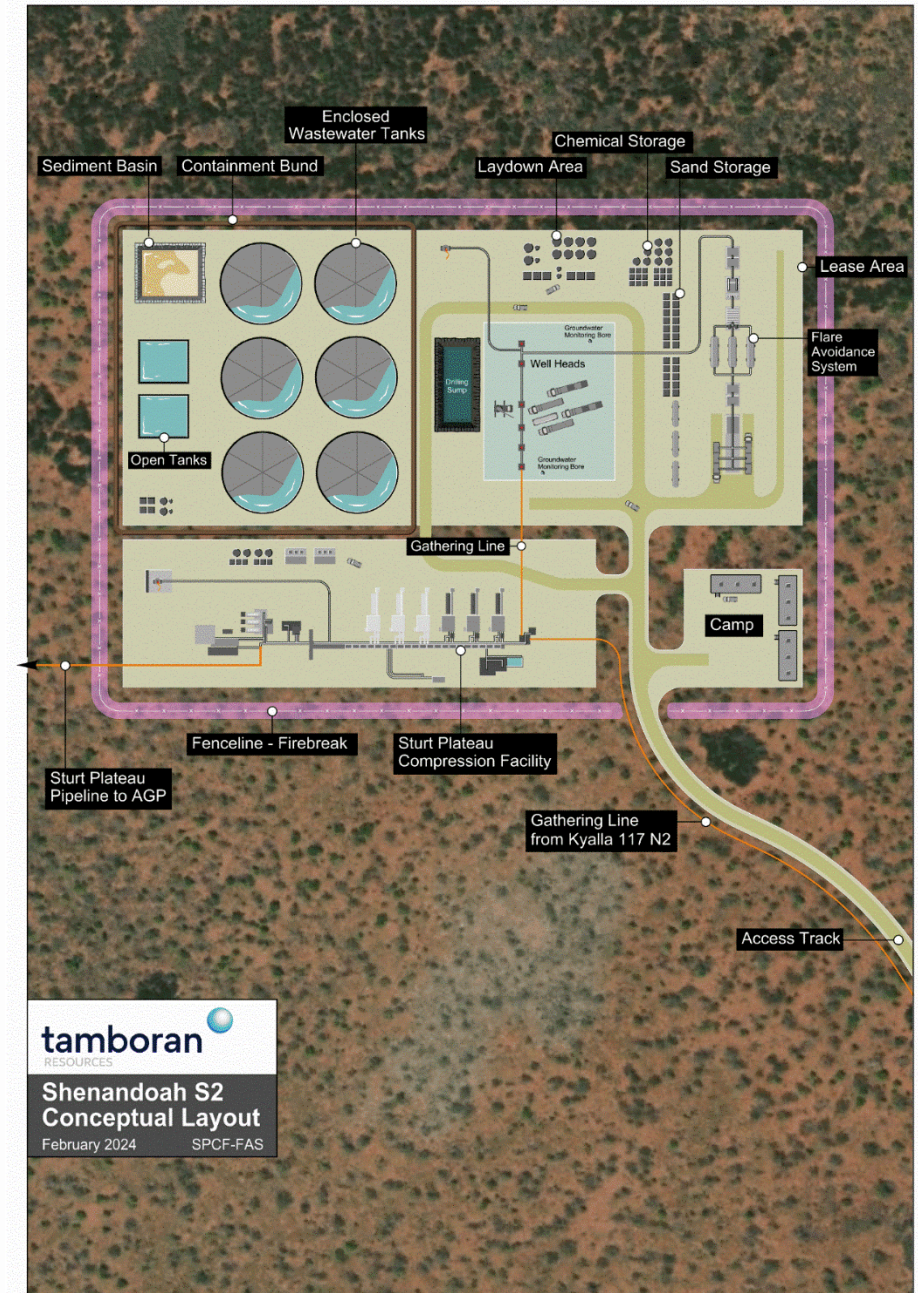


# Shenandoah S2 - Appraisal Gas Project

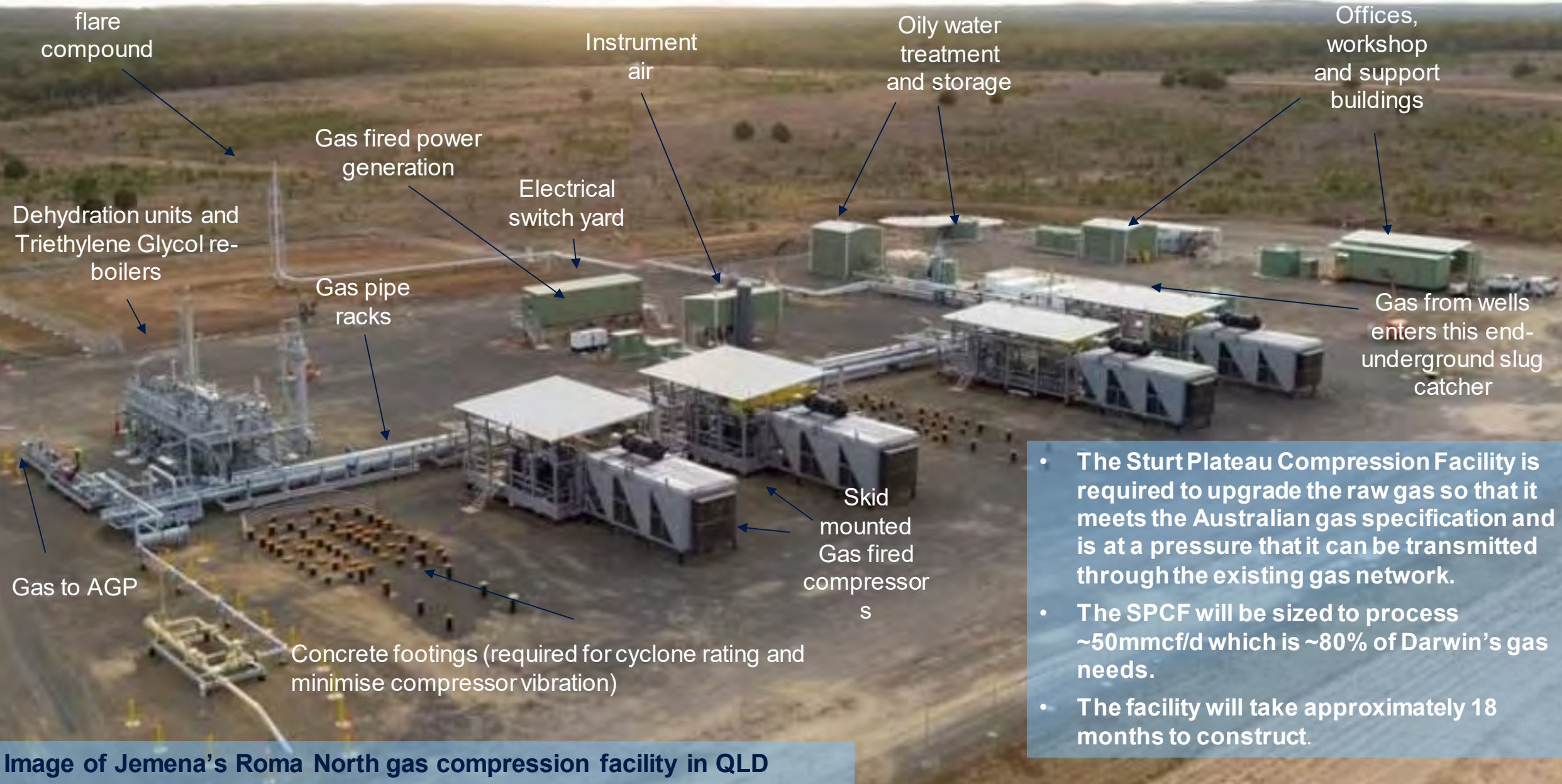
- Sturt Plateau Compressor Facility (SPCF) [REDACTED] to be located at Shenandoah S2, ~3.5Km NW of Kyalla 117 N2
- Facility will have a capacity of up to 50TJ/day
- Earthworks and footings proposed to be started in late 2024 - with compressor construction planned for 2025 dry season
- First gas proposed in Q1 2026 - with appraisal gas sold for 24-36 months
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Example of compressor station (flare not routine)

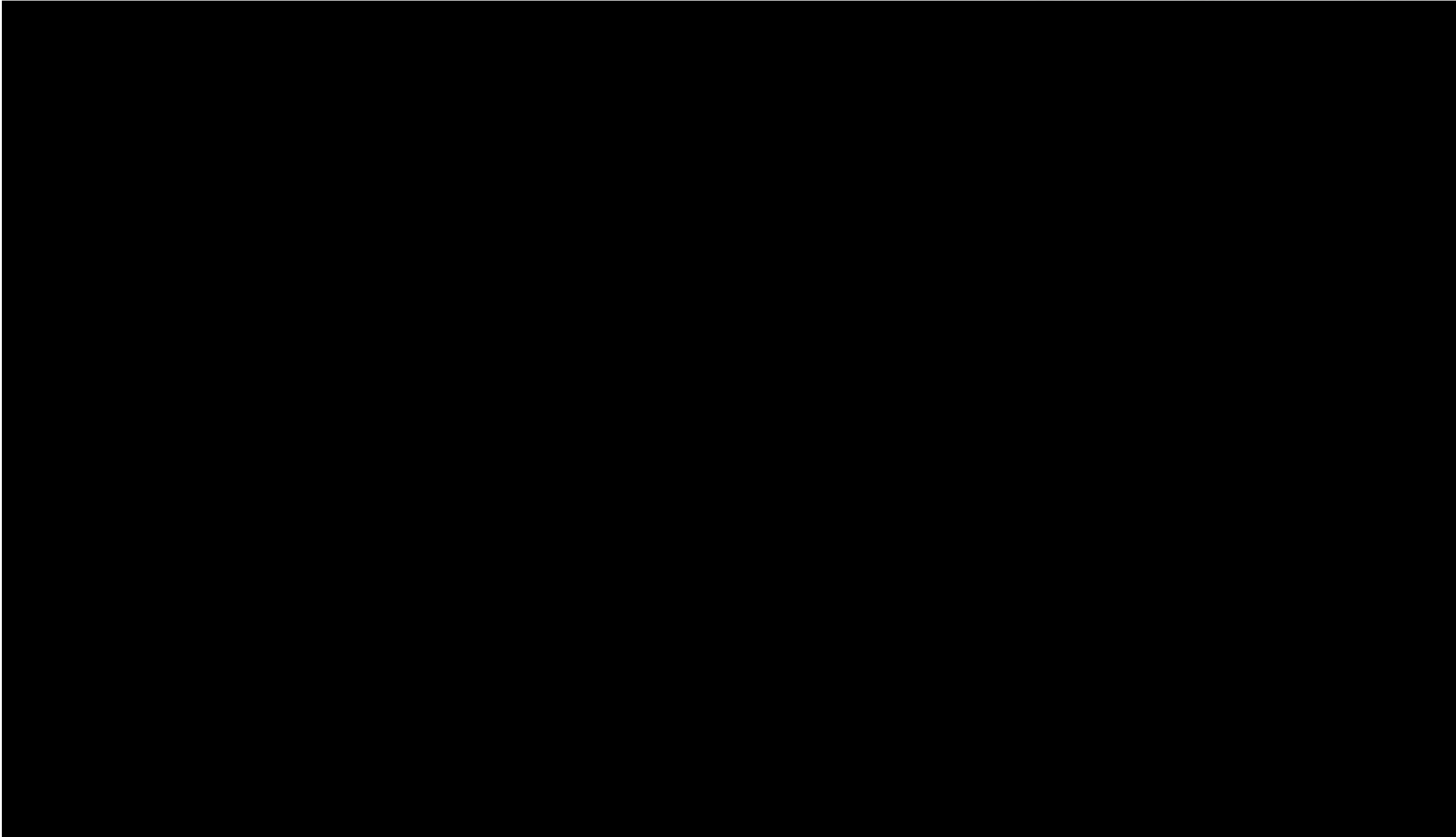


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Image of Jemena's Roma North gas compression facility in QLD



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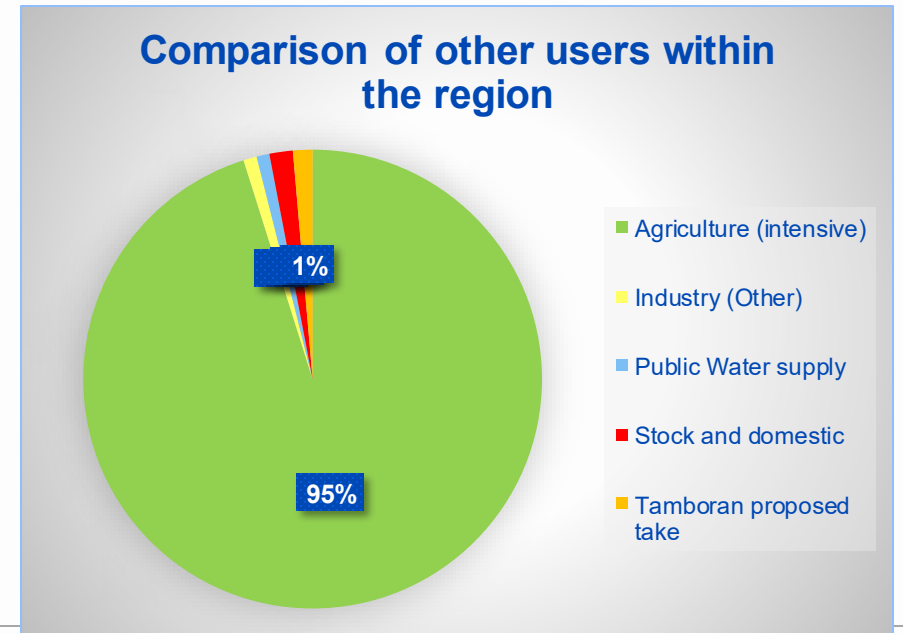
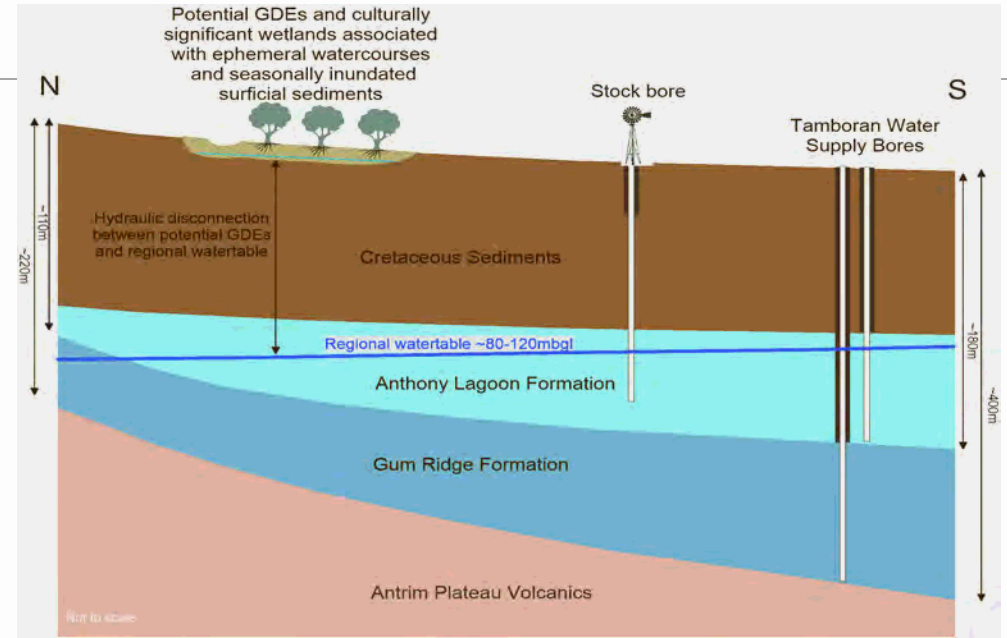
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**Questions?**

**Appendix J.1.2 10 240314 Re: Beetaloo | NLC comments  
on Tamboran's work program slides**

**From:** [Emily Beresford-Cane](#)  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Re: Beetaloo | NLC comments on Tamboran's work program slides  
**Date:** Thursday, 14 March 2024 9:08:37 PM  
**Attachments:** [image001.png](#)  
[2024\\_03\\_14 Draft Tamboran 2024 NTH Work Program Presentation \(NLC comments\).pdf](#)  
[2024.02.06 - EMP Slides - meeting with NTHs in February 2024.pdf](#)  
[Photo excerpts from WP and EMP.pptx](#)

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Hi [REDACTED]

Thank you for your detailed comments, they are very helpful.

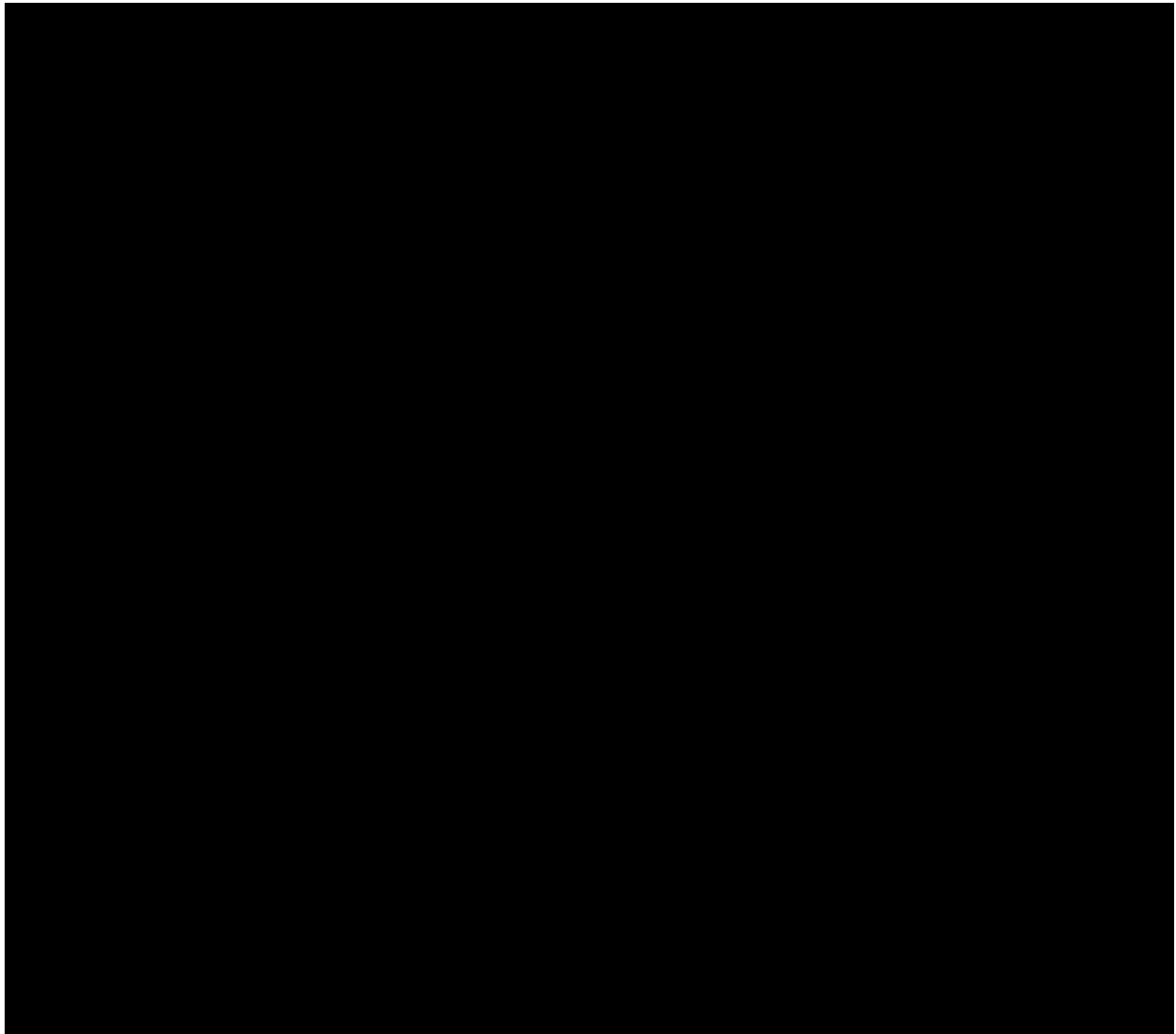
We will prepare a second presentation incorporating the information below for the meeting, and trust the more detailed presentation provided to the NLC will remain helpful in the NLC's ongoing consultation with Traditional Owners (prior and subsequent) to the meetings.

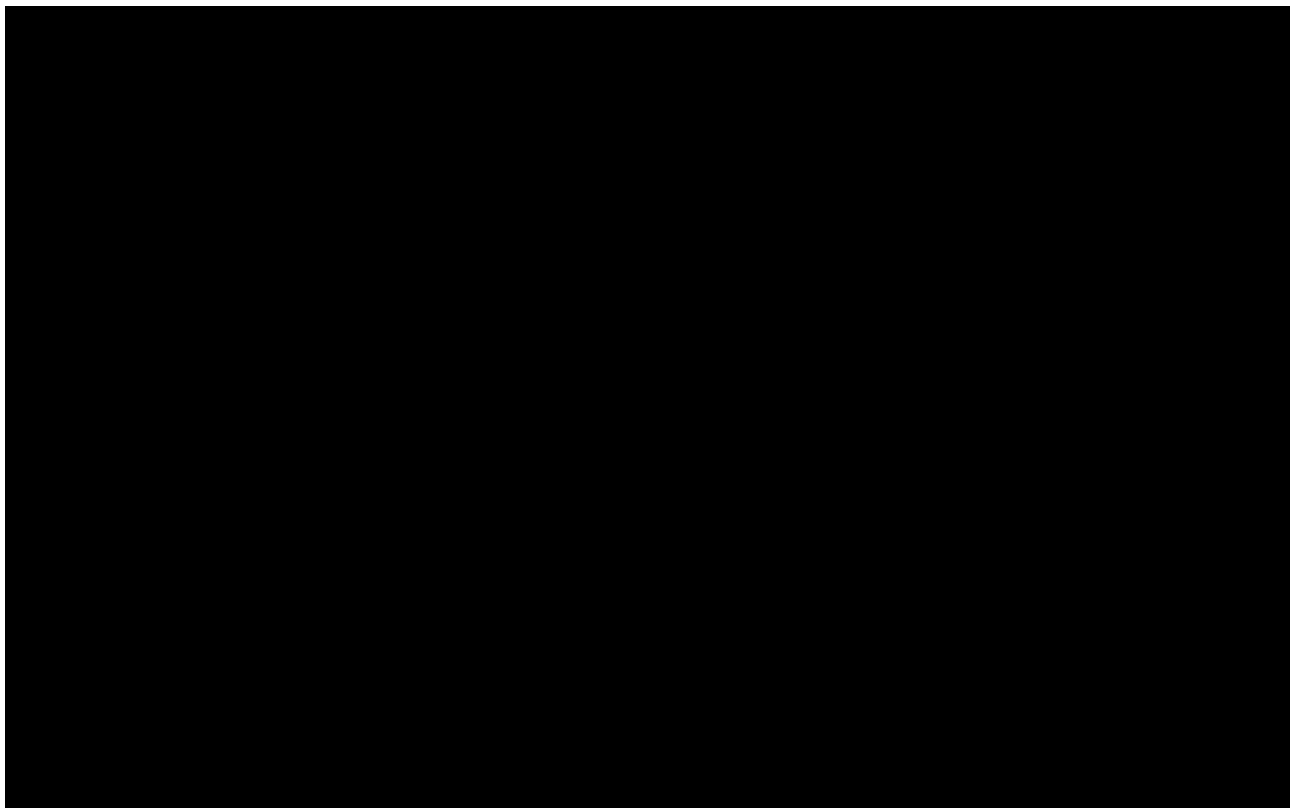
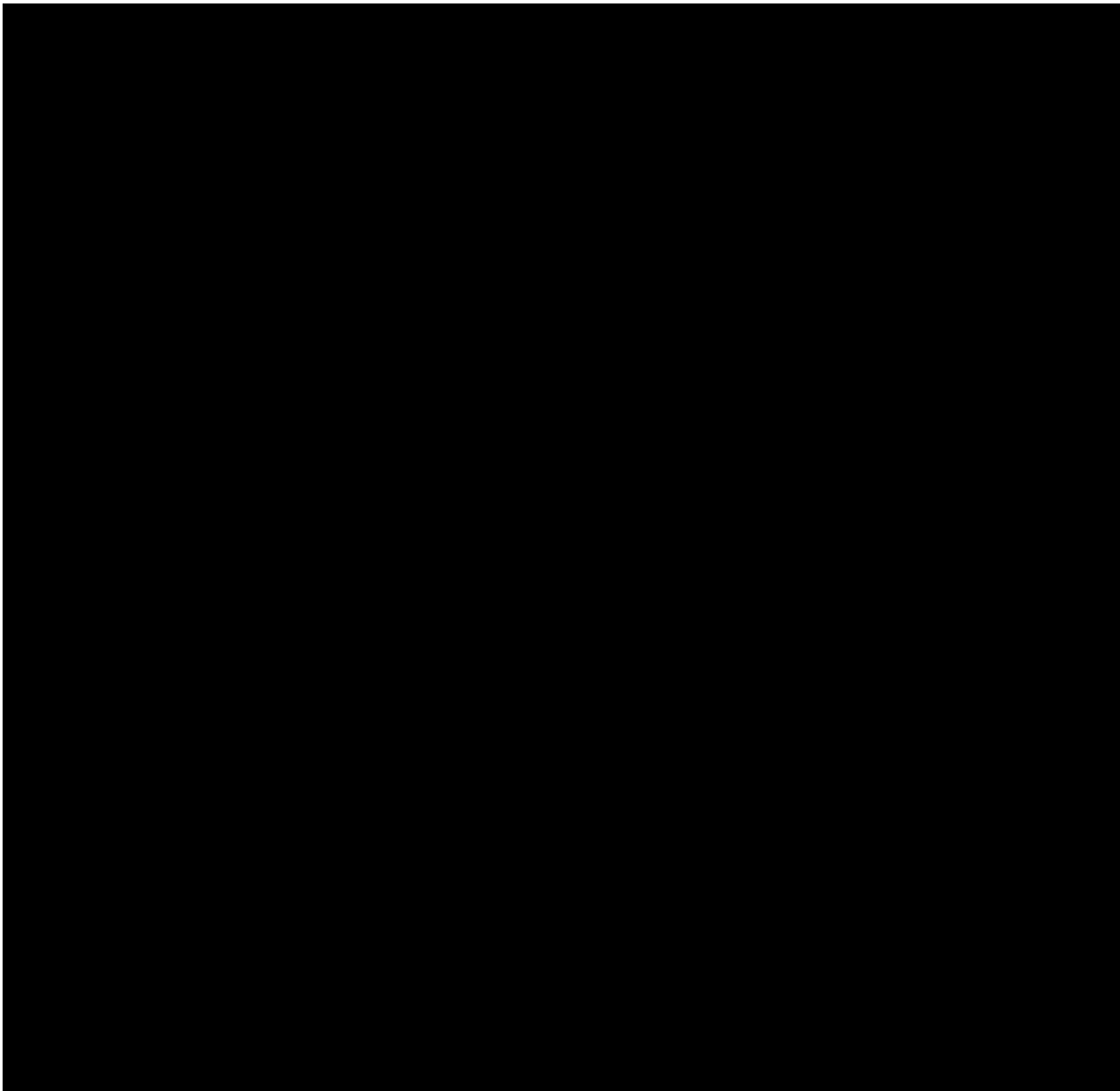
Look forward to seeing you in Elliott.

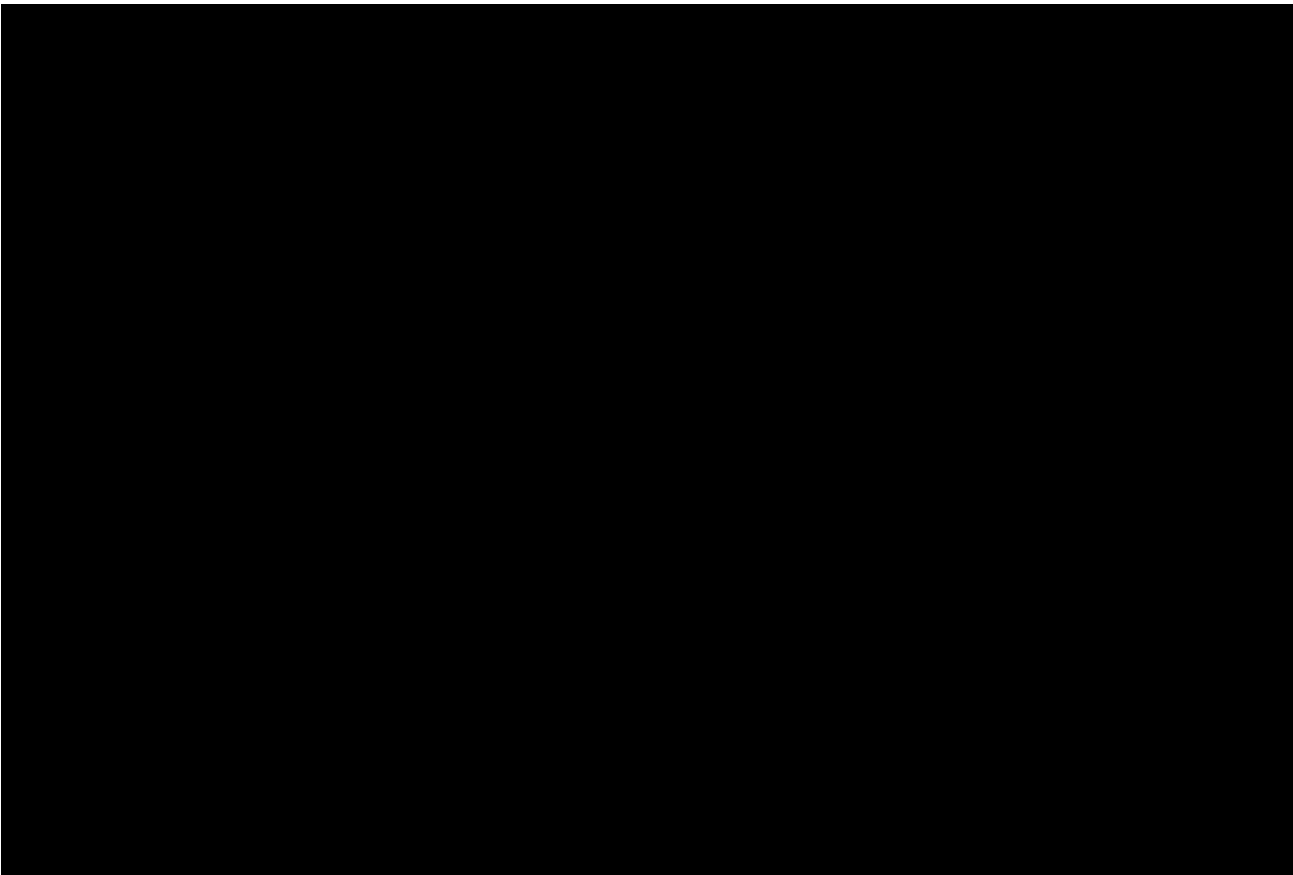
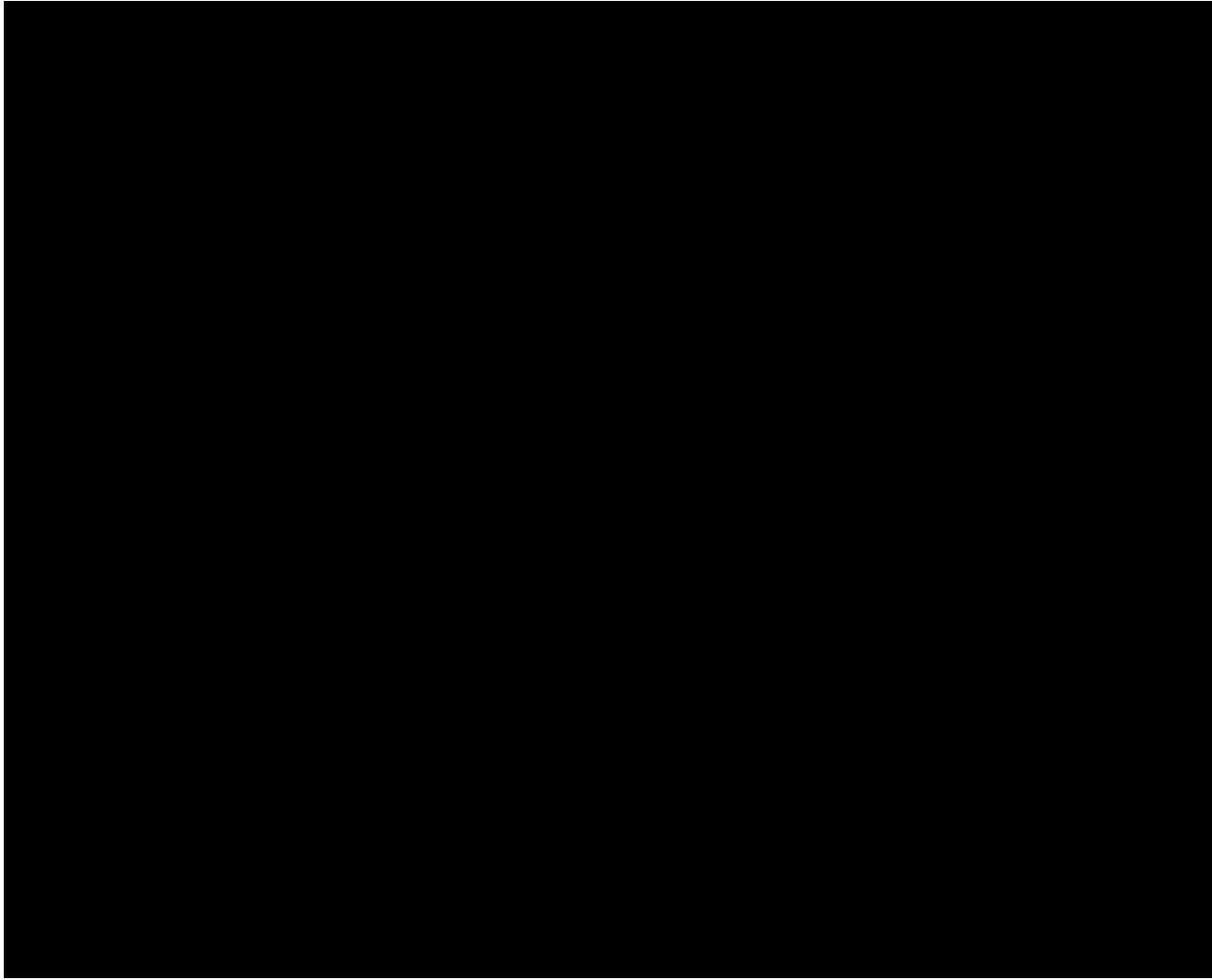
Thanks

Emily

On 14 Mar 2024, at 11:46 am, [REDACTED] wrote:









[Redacted]  
[Redacted]  
[Redacted]

Email: [Redacted] | Website: [www.nlc.org.au](http://www.nlc.org.au)

### Disclaimer

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# Tamboran Beetaloo Joint Venture Project Work Program Meeting

March 2024

**Confidential**

# Agenda

1. Purpose of Work Program Meeting
2. Beetaloo Roadmap and Exploration – recap
3. 2023 work completed/underway
4. Proposed 2024 work program
5. Appraisal Gas Project
6. New sacred site clearances
7. Approvals - EMP's and Water Extraction License
8. Near term opportunities
9. Next steps and questions

# Purpose of Work Program Meeting

- ~~Purpose of Work Program meeting is to talk through what exploration activity has occurred on the Exploration Permits throughout 2023~~
- Talk through the results of 2023 Exploration Activity
- Provide an overview of the exploration activity planned for 2024
- Talk about what Government approval documents have or will be provided to the NLC

# About Tamboran

## Introducing Tamboran

We are a publicly listed Australian company with our headquarters in Sydney and staff across Australia and the USA. We are committed to creating value for our shareholders, communities, Territorians and Australians by appraising and developing the gas resources of the Beetaloo Basin. We strive to follow and exceed the example set by Origin in community engagement since 2014 and will continue to focus on economic, development and employment opportunities for Native Title Holders and local communities.

## Our Vision

To play a role in the global energy transition by investing in the development of low CO2 unconventional natural gas resources in the Beetaloo Sub-basin of the Northern Territory of Australia and to become a Net Zero carbon emissions gas producer for our equity share of Scope 1 and Scope 2 emissions when the Company achieves commercial gas sales.

## Strategy



Target is to become a Net Zero equity Scope 1 & 2 emissions producer



Focused, high growth Beetaloo strategy



High quality assets with significant scale



Low-cost development targeting multiple markets, premium pricing



Expertise in unconventional E&P development

## Sustainability



Health & Safety



Climate Change



Environment



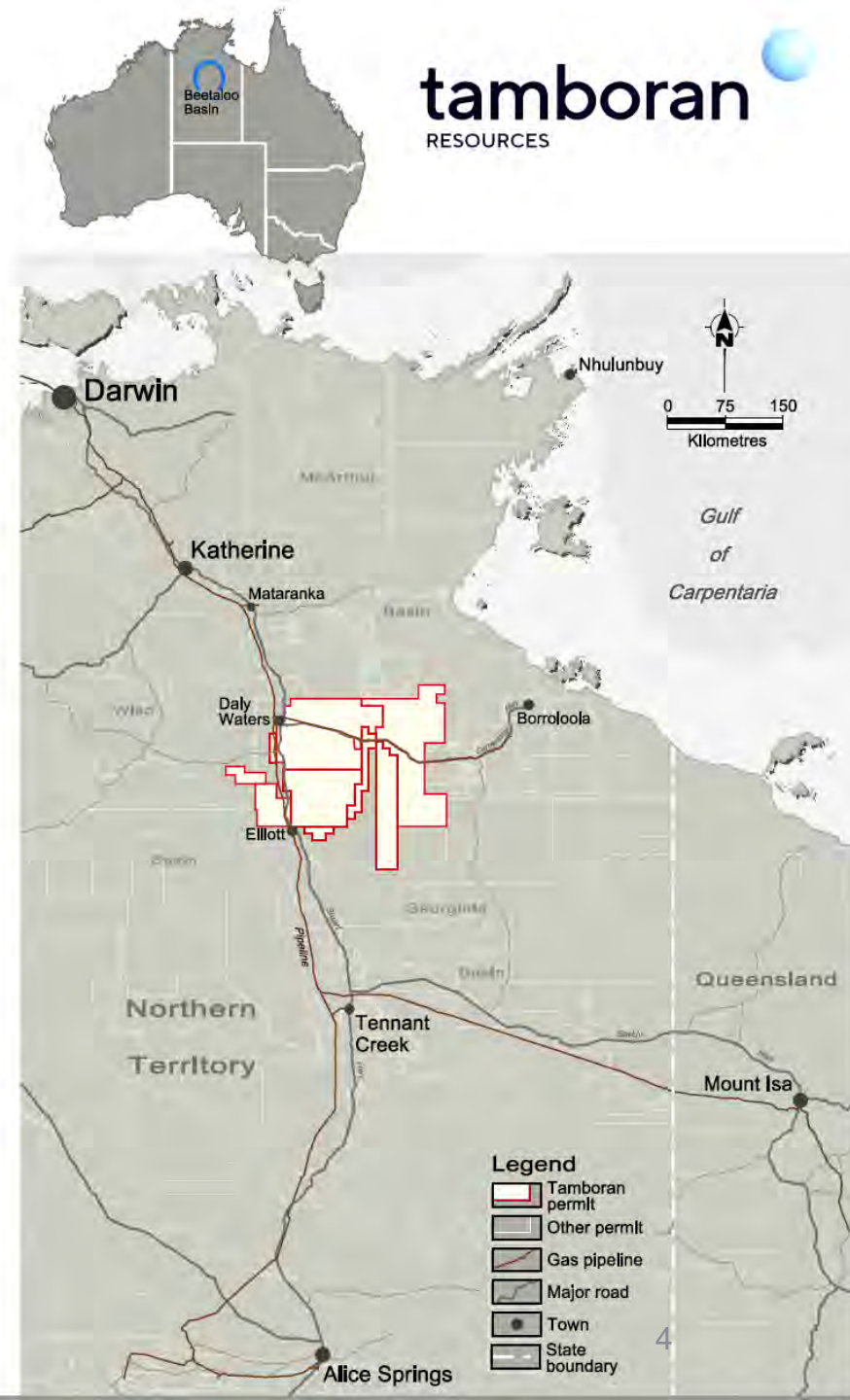
People

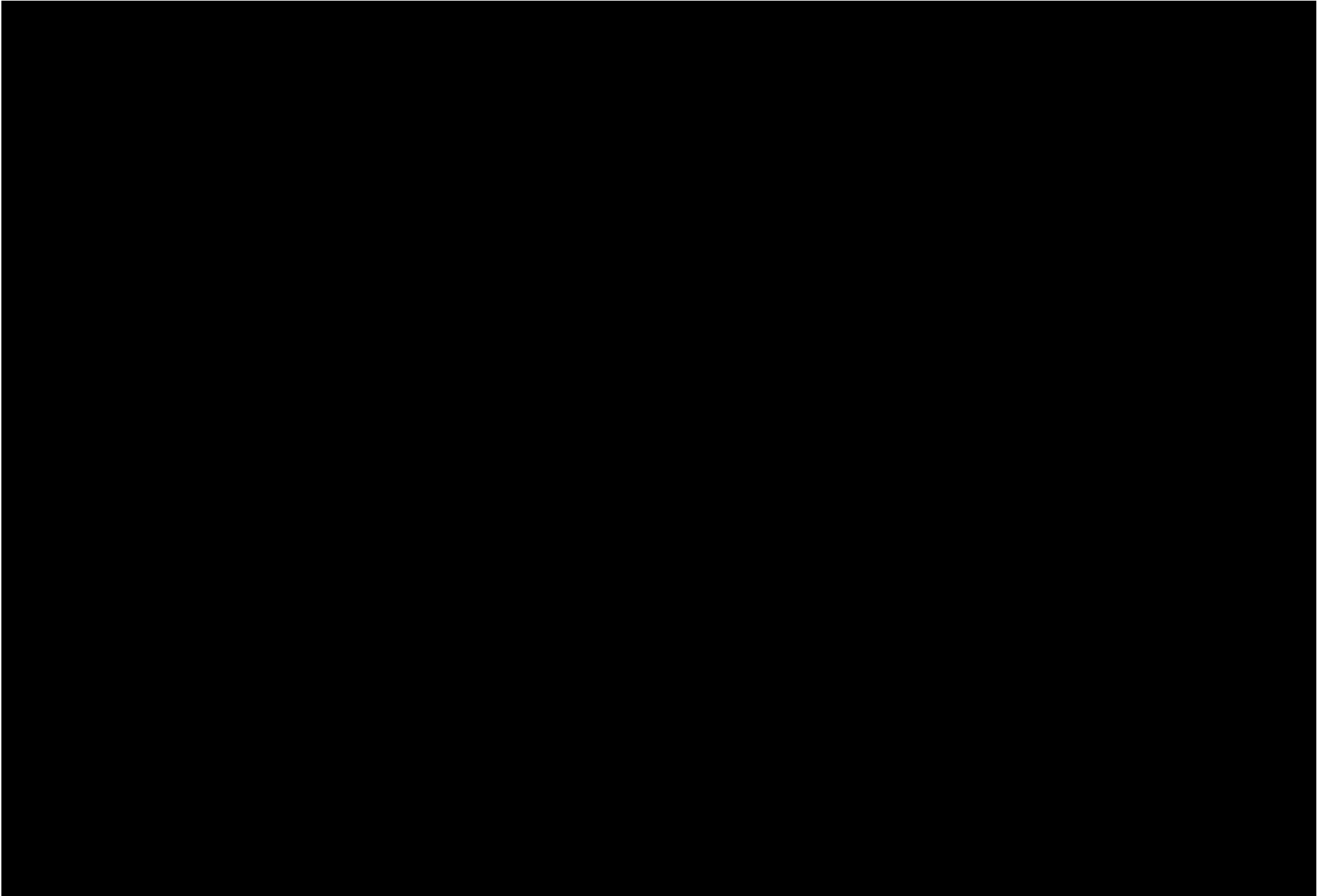


Community



Economic Sustainability





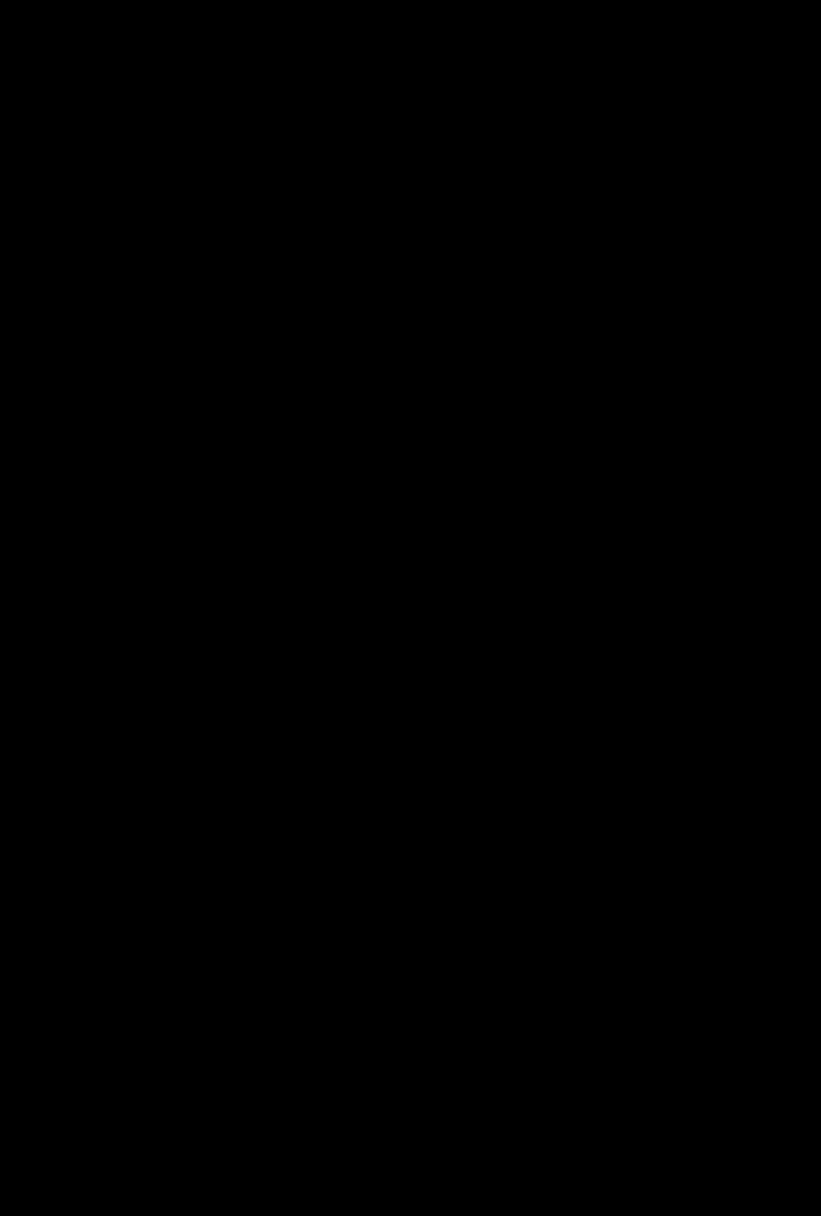

# Operations update – 2023 was a big year for the Beetaloo

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## Key Exploration Results

- Tested the Amungee NW 2H well
- Drilled the Amungee NW 3H well; moved to Shenandoah S area
- Shenandoah S 1H well was successfully drilled, stimulated and tested with economic flow rates of 6.4mmcf/d / 1000 m of lateral - a very good result.

## Setting the project up for success

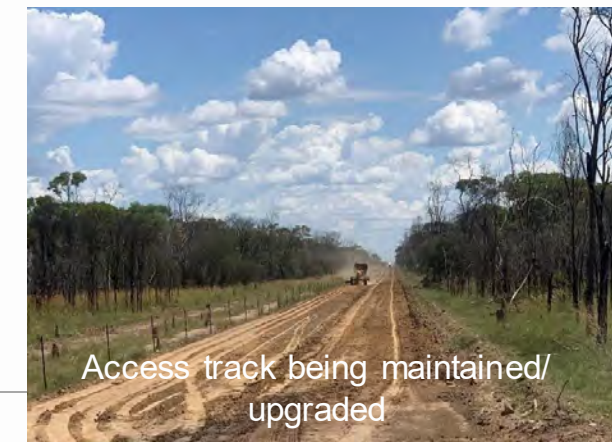
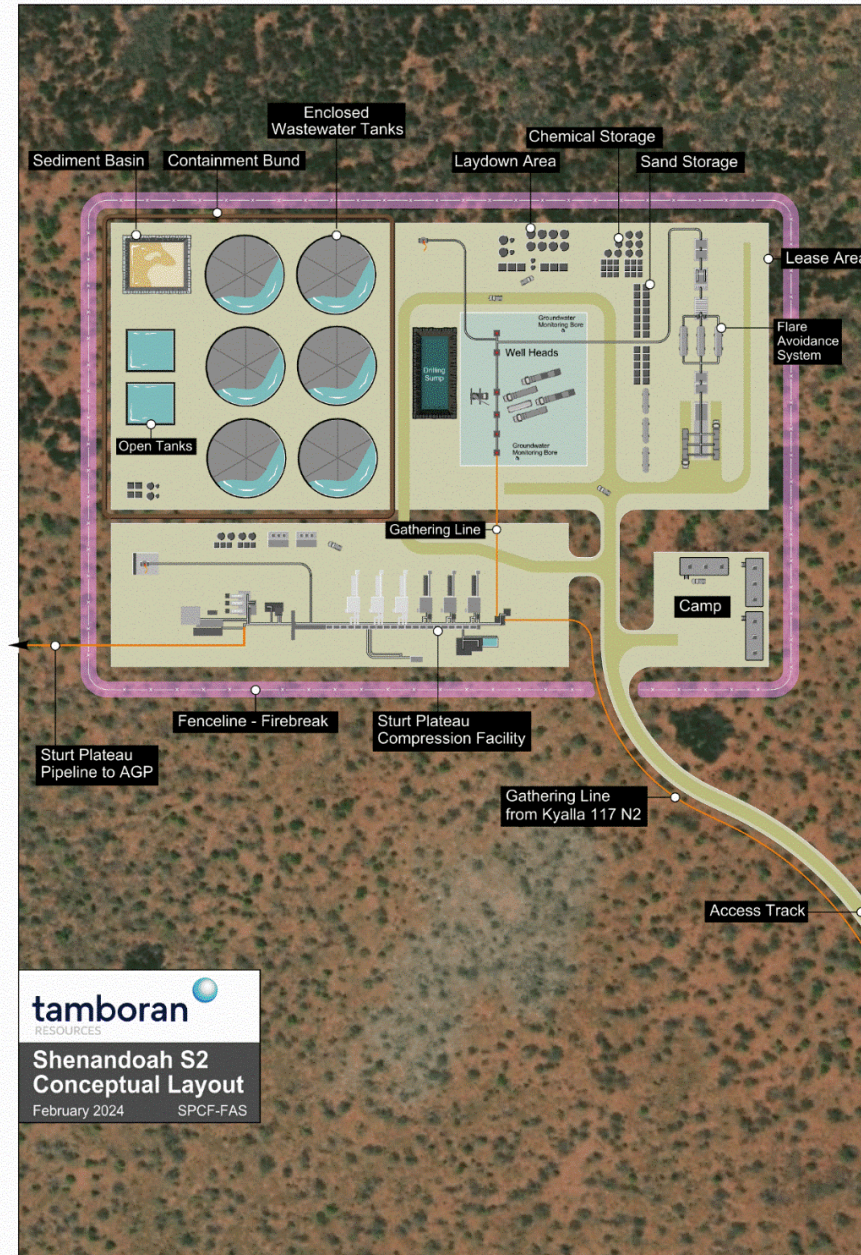
- H&P rig mobilised the super-spec FlexRig® Flex 3 Rig (2023)
  - Entered an agreement with Liberty Energy to bring in modern frac fleet (2024)
- 
- 

# Proposed 2024 Work Program

- Continue well testing the **Shenandoah S-1H** well on Kyalla 117 N2
- Construct the new **Shenandoah S2** location, approximately 3.5km NW of Kyalla 117 N2 (civils and water bores)
- Drill, stimulate and well testing of **2 new wells on the Shenandoah S2** location
- [REDACTED]
- Commence construction of the **Sturt Plateau Compression Facility** for future appraisal gas sale (civils and footings)
- Construction of new location **Shenandoah North A** and drilling of a new E&A well (contingent)

# Shenandoah South 2 Construction

- Construction of new Shenandoah S2 including lease pad, camp pad, gravel pit, access tracks and laydown yard
- Located ~3.5km NW of existing Kyalla 117 N2
- Land clearing and civil construction to support activities
- Drilling water bores



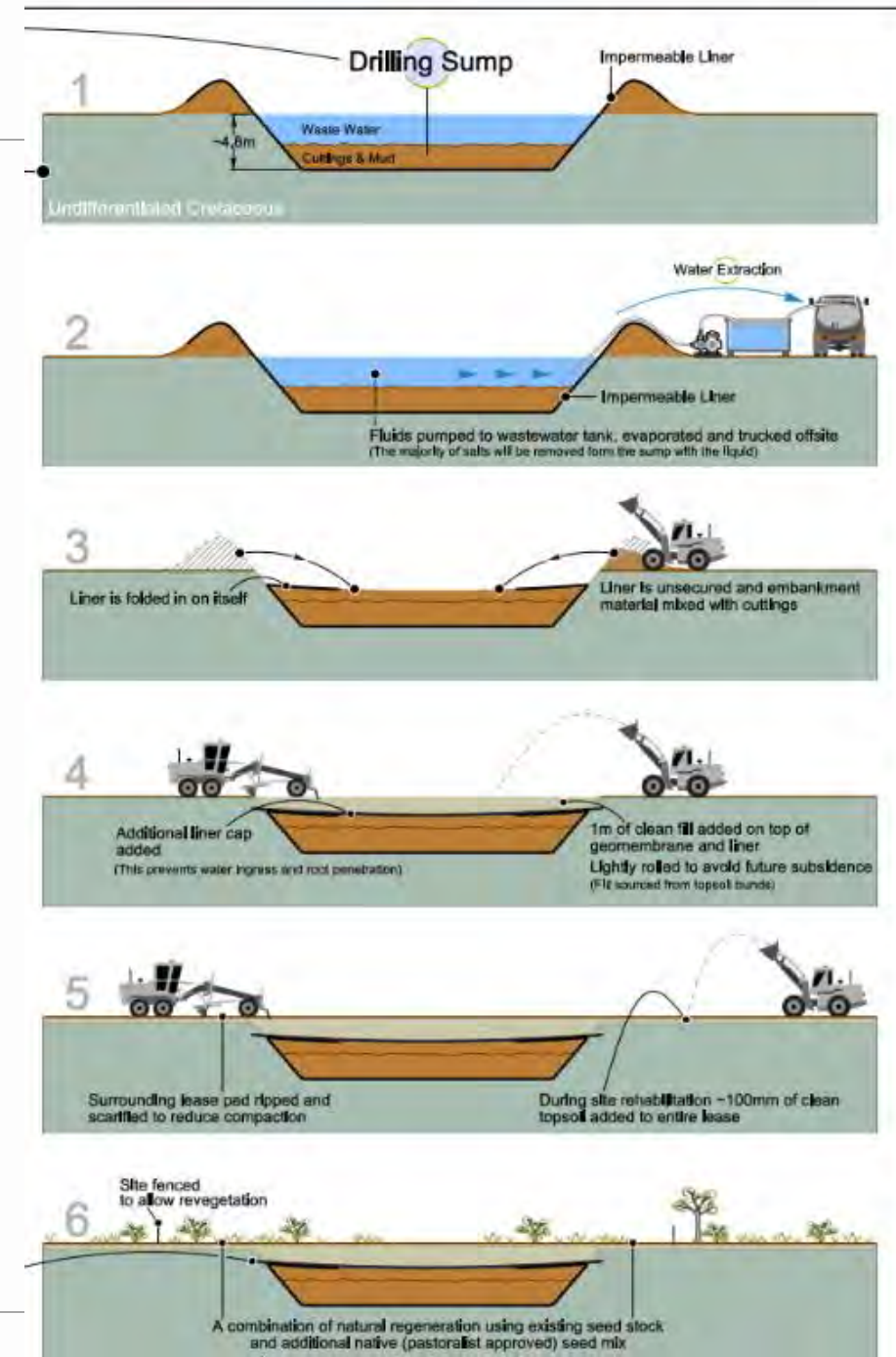
# Drilling, stimulation and testing 2 new wells

- Similar activities as before-with larger horizontals
- Drilling of 2 new 3000m horizontal wells on Shenandoah S2
- Stimulation and well testing up to 360 days
- Wastewater storage and evaporation

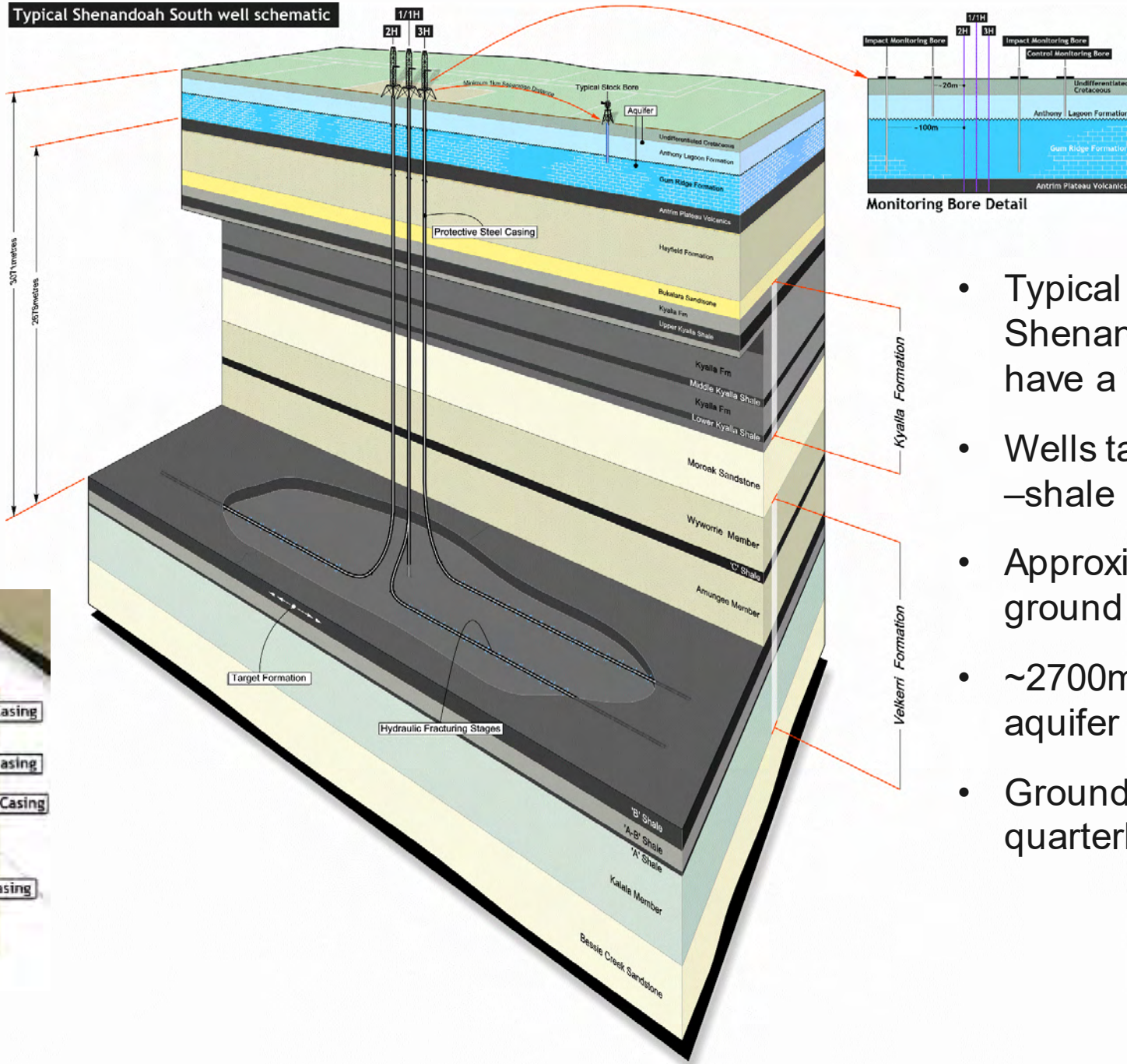


# Drilling cutting and mud mix bury cover

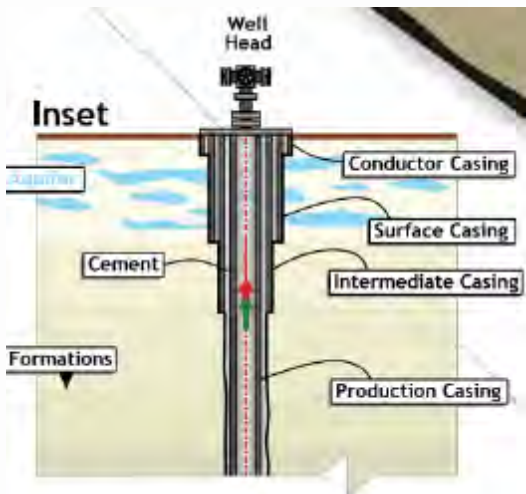
- Where safe for the environment, drilling muds and cuttings will be disposed of onsite via mix-bury cover.
- Cuttings from rocks is the largest source of waste.
- Salt is the main compound which can be managed through capping.
- Vegetation will regrow on the capped sump similar to landfills.



Typical Shenandoah South well schematic



Multiple string of cement and steel protect aquifers



- Typical well schematic- noting Shenandoah Nth A will not have a horizontal
- Wells targeting the Velkerri B –shale
- Approximately 3,100m below ground level
- ~2700m below the closest aquifer
- Groundwater is monitored quarterly

# Shenandoah North A

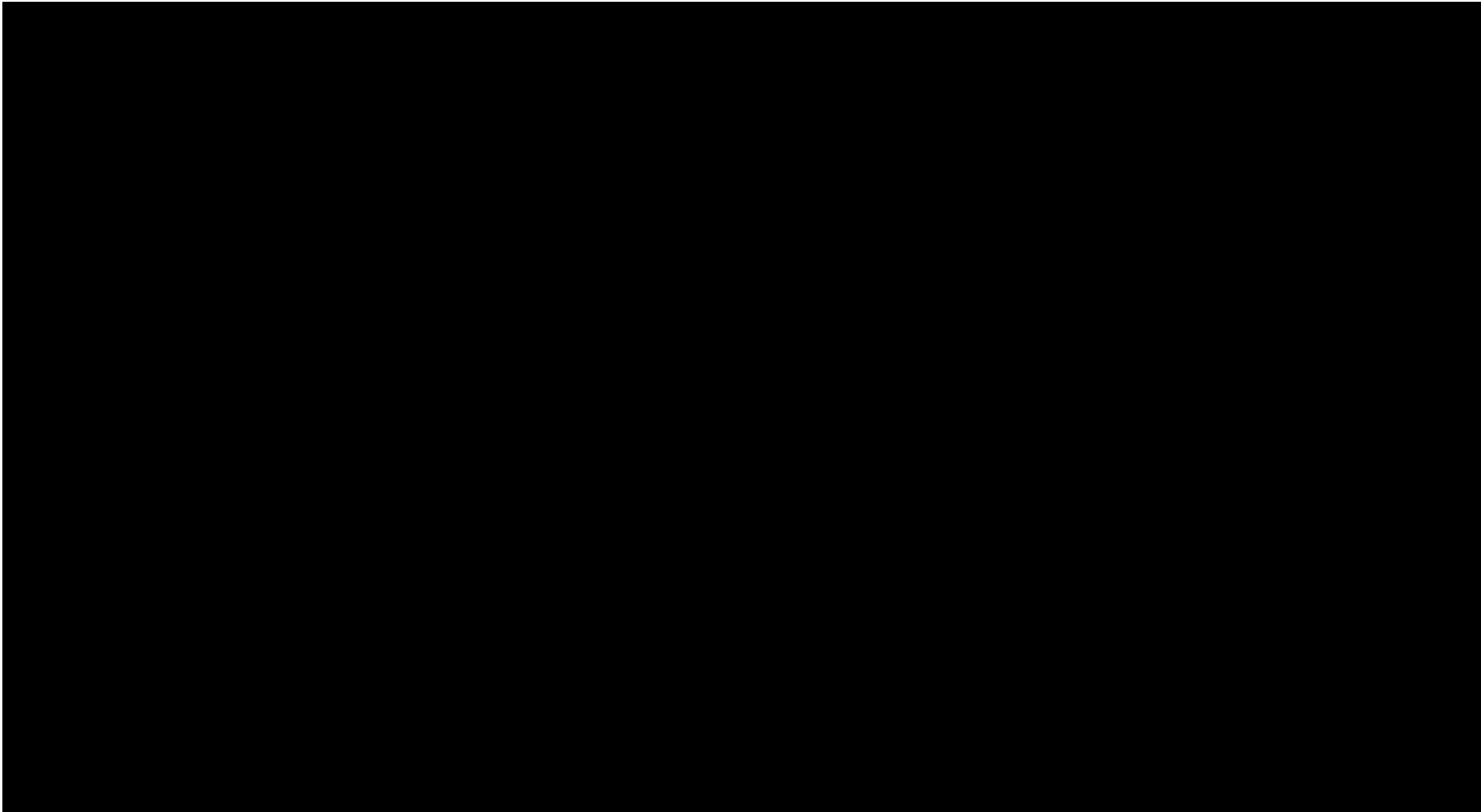


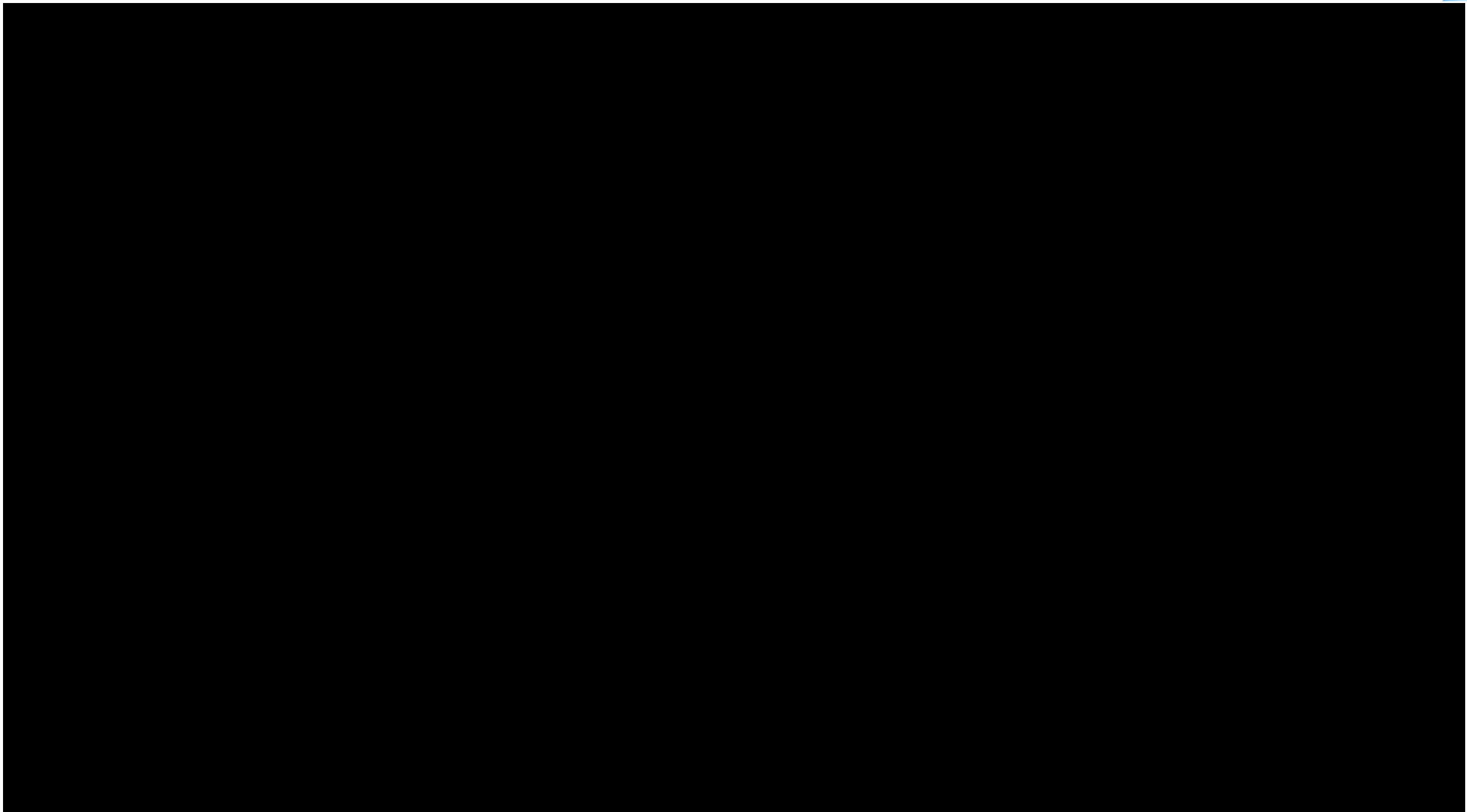
- Located within Subject Land 1
- Construction of new 3 ha Shenandoah NA including lease pad, camp pad and access tracks, land clearing and civil construction
- 2024/2025
- Drilling water bores
- Drilling of a vertical stratigraphy well
- Example provided is Amungee NW 1 being drilled

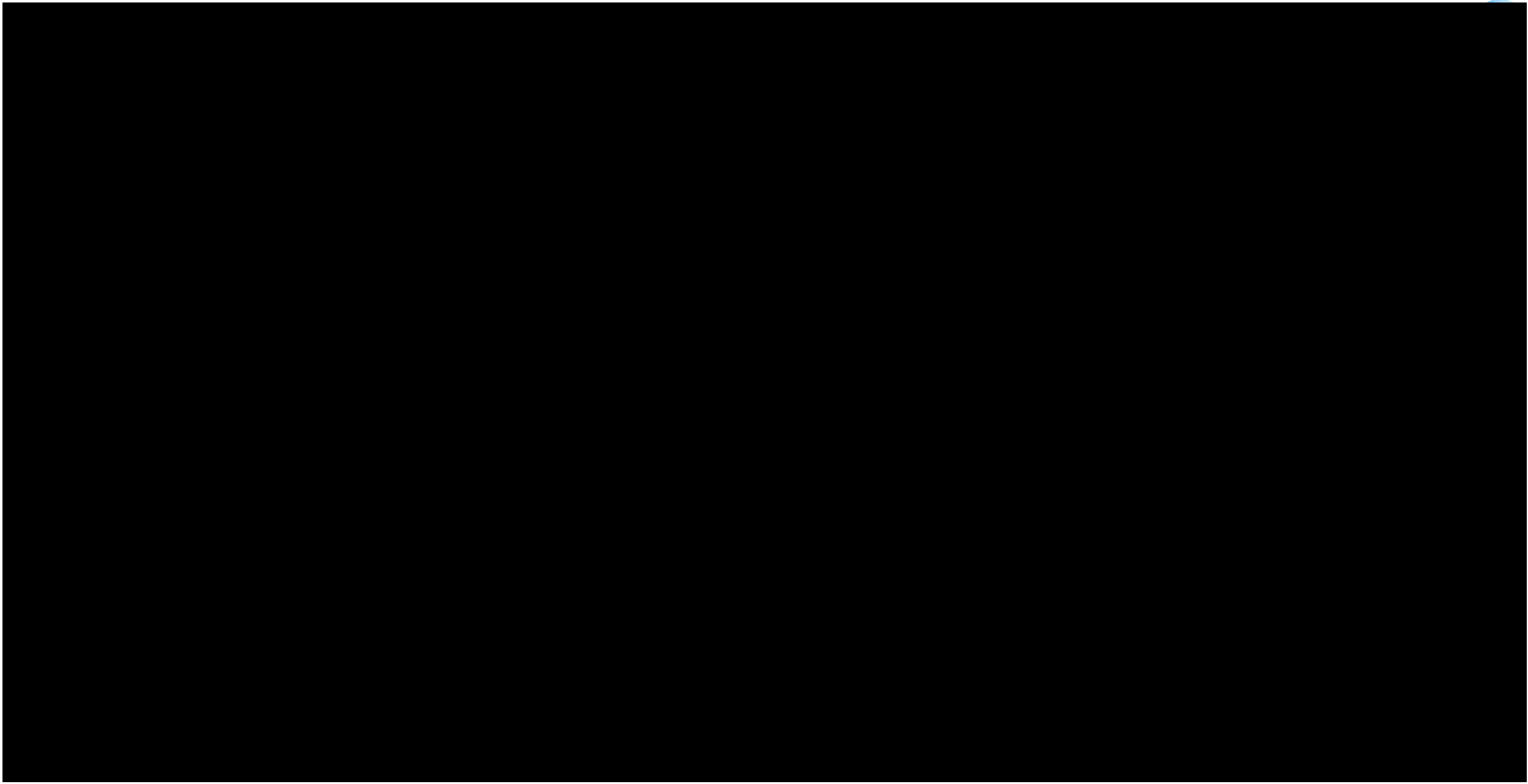


Drilling rig









# Appraisal Gas Project

## ➤ Longer term appraisal

- Tamboran needs to produce gas during appraisal to test the underlying shales prior to investing in a development.
- This will allow the gas to be used for power generation in NT rather than the gas being flared.
- The sale of appraisal gas will increase financial and community benefits to Native Title Holders and will also decrease greenhouse gas emissions.

## ➤ Appraisal gas sale options

- Appraisal gas is proposed to be generated from the 2 wells drilled on Shenandoah S2 in 2024 [REDACTED].
- It is proposed that a temporary compression facility [REDACTED] will be constructed.

- [REDACTED]
- [REDACTED]



Example of small compression facility

# Flaring Gas Vs. Appraisal Gas

## Appraisal gas is flared

- Gas burnt and not used or sold
- Higher greenhouse gas emissions
- No additional financial benefits to NTHs or NT
- Less job opportunities



## Appraisal gas is sold

- Gas is sold into the NT for electricity
- 90% less greenhouse gas emissions than flaring
- More financial benefits for NTHs
- More job opportunities in construction and operation
- Requires a slightly larger clearing area of ~6 ha to support the compression facilities

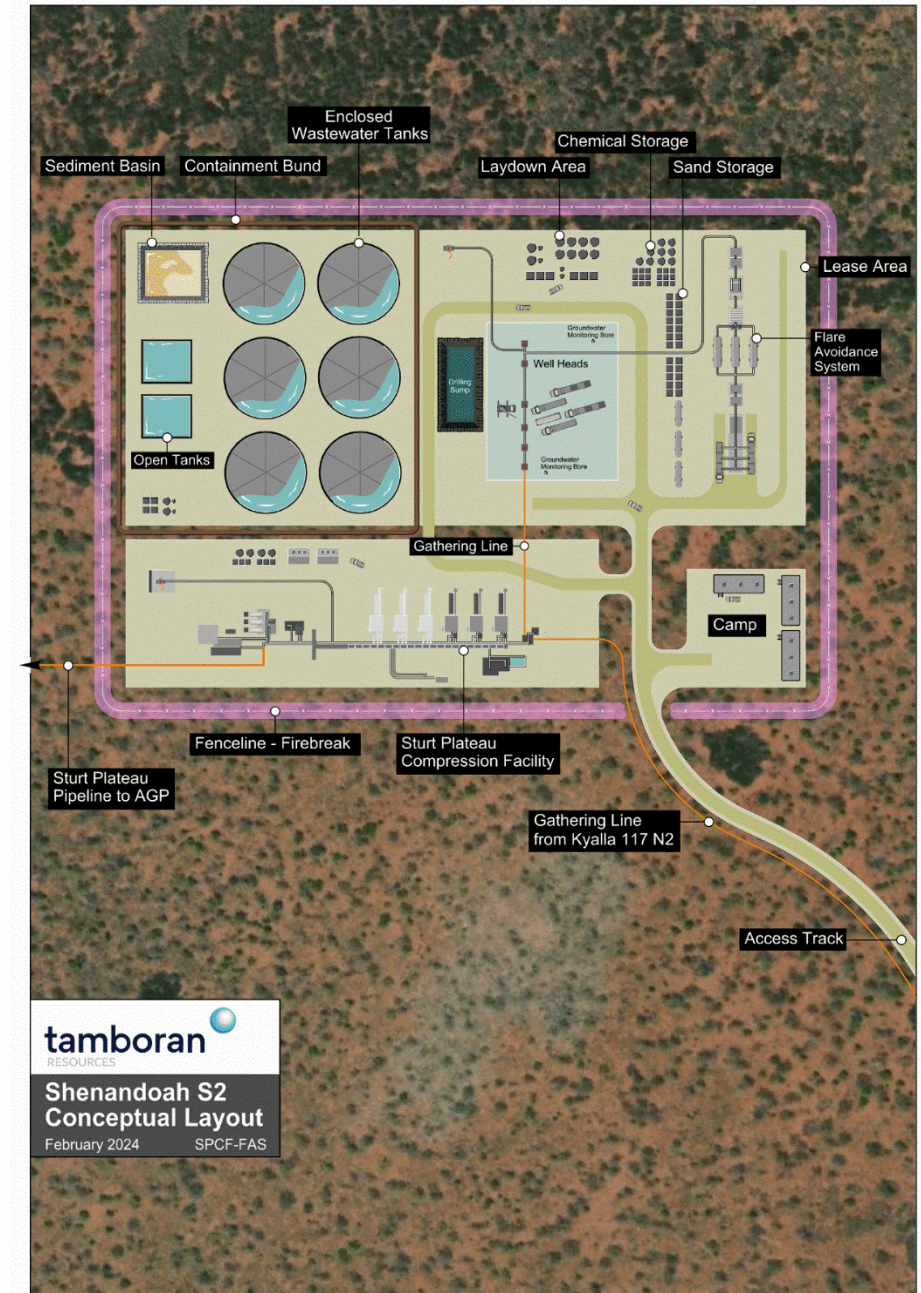


# Shenandoah S2 - Appraisal Gas Project

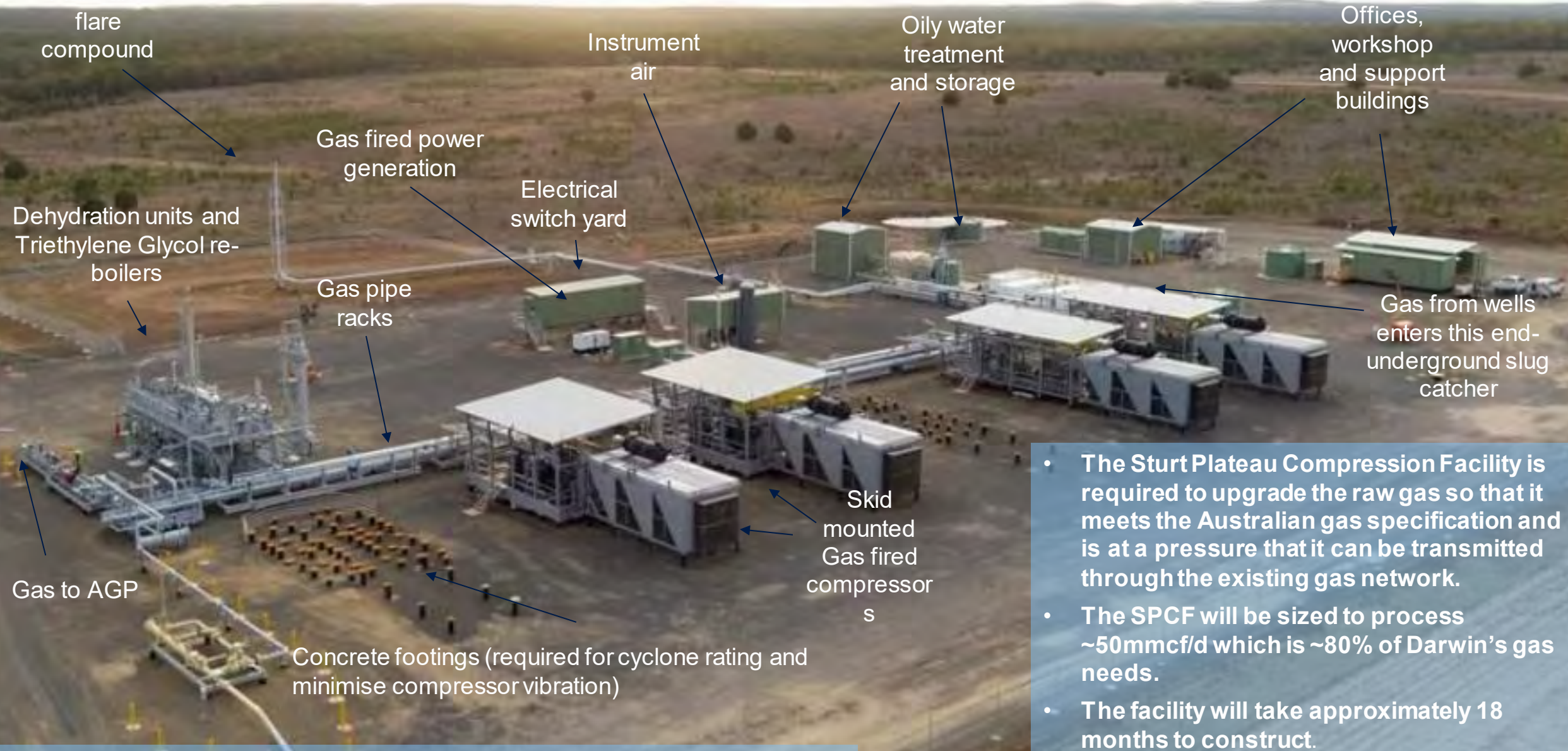
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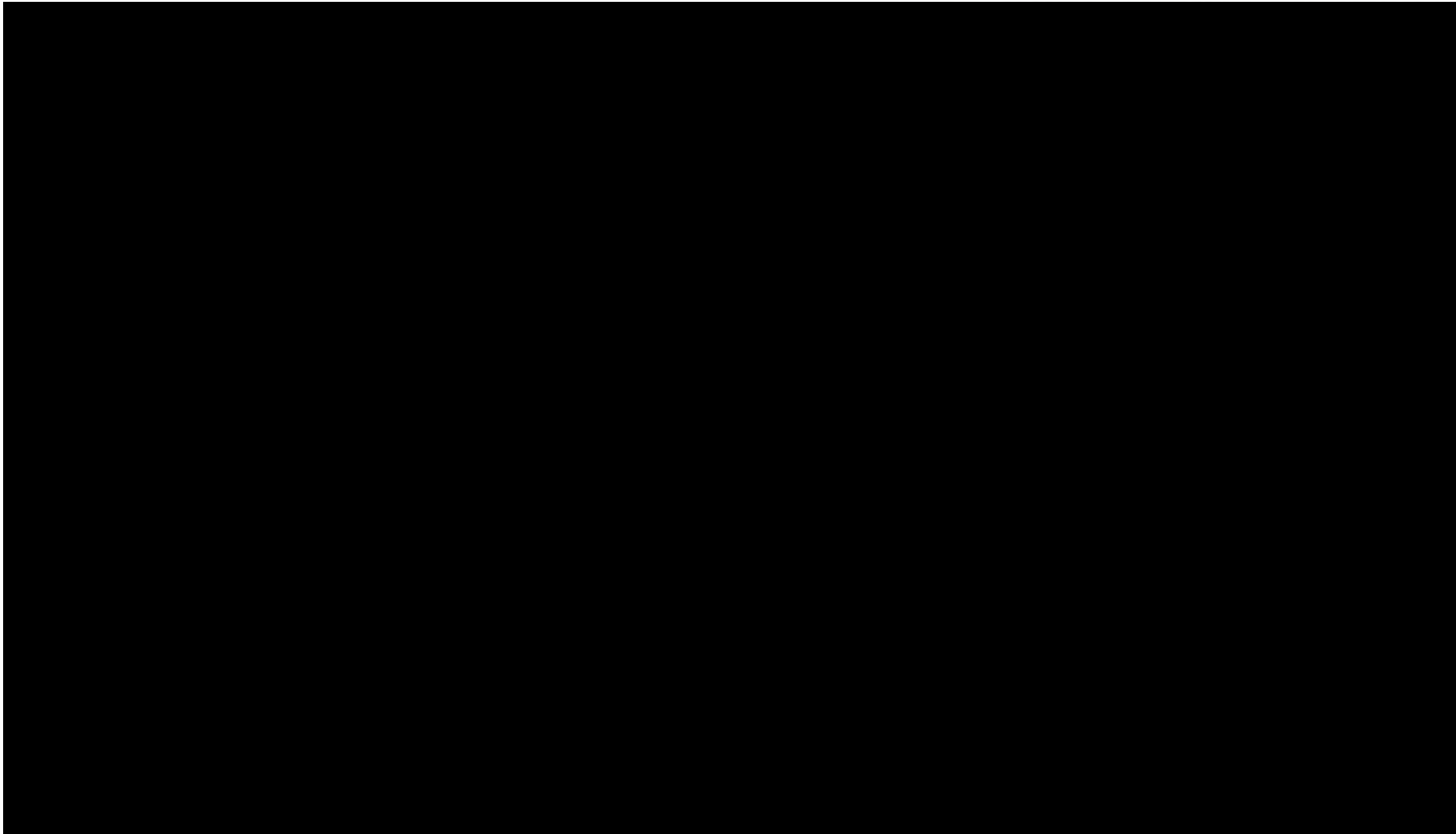


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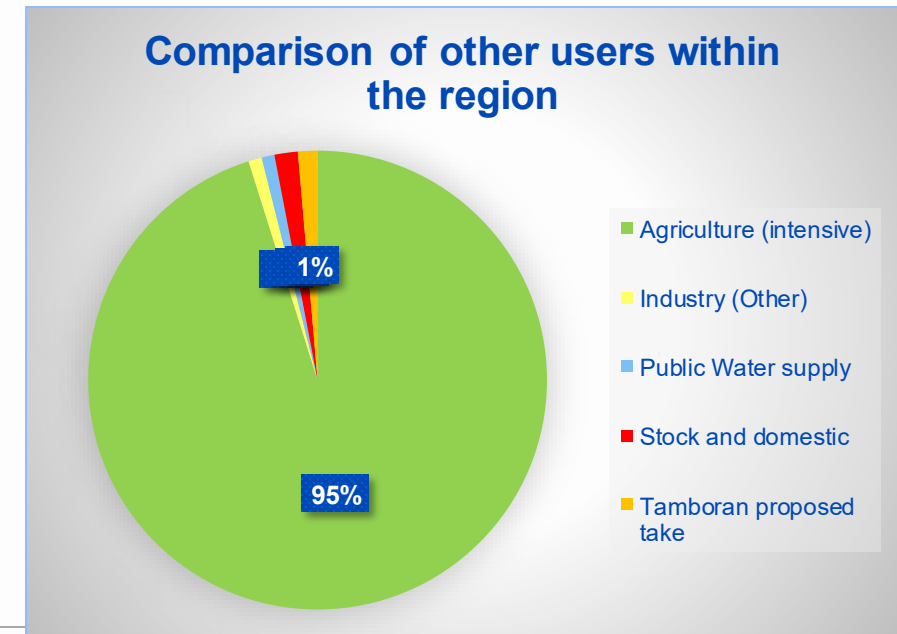
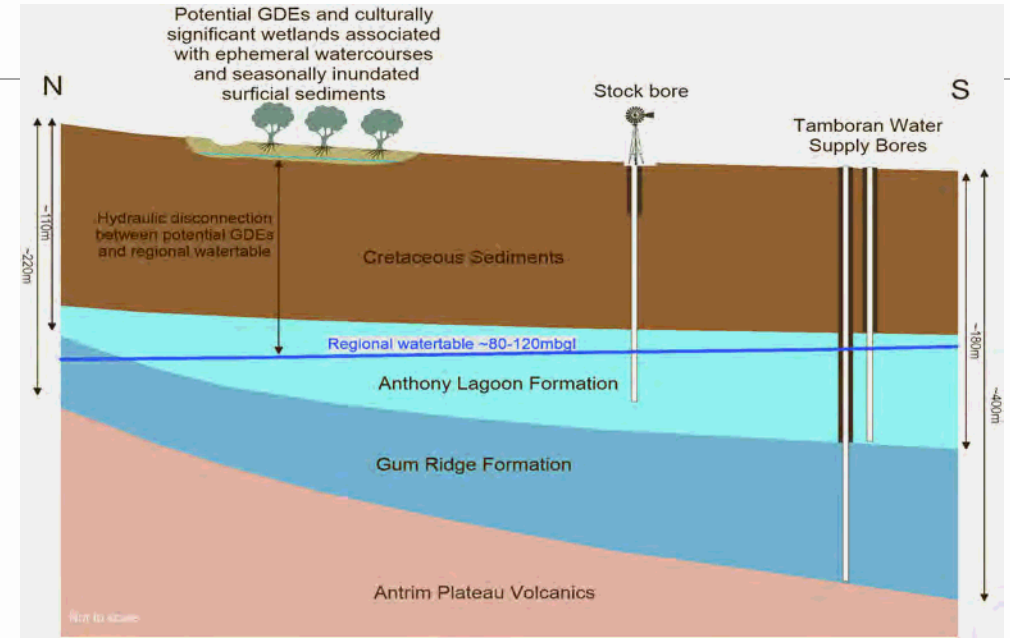
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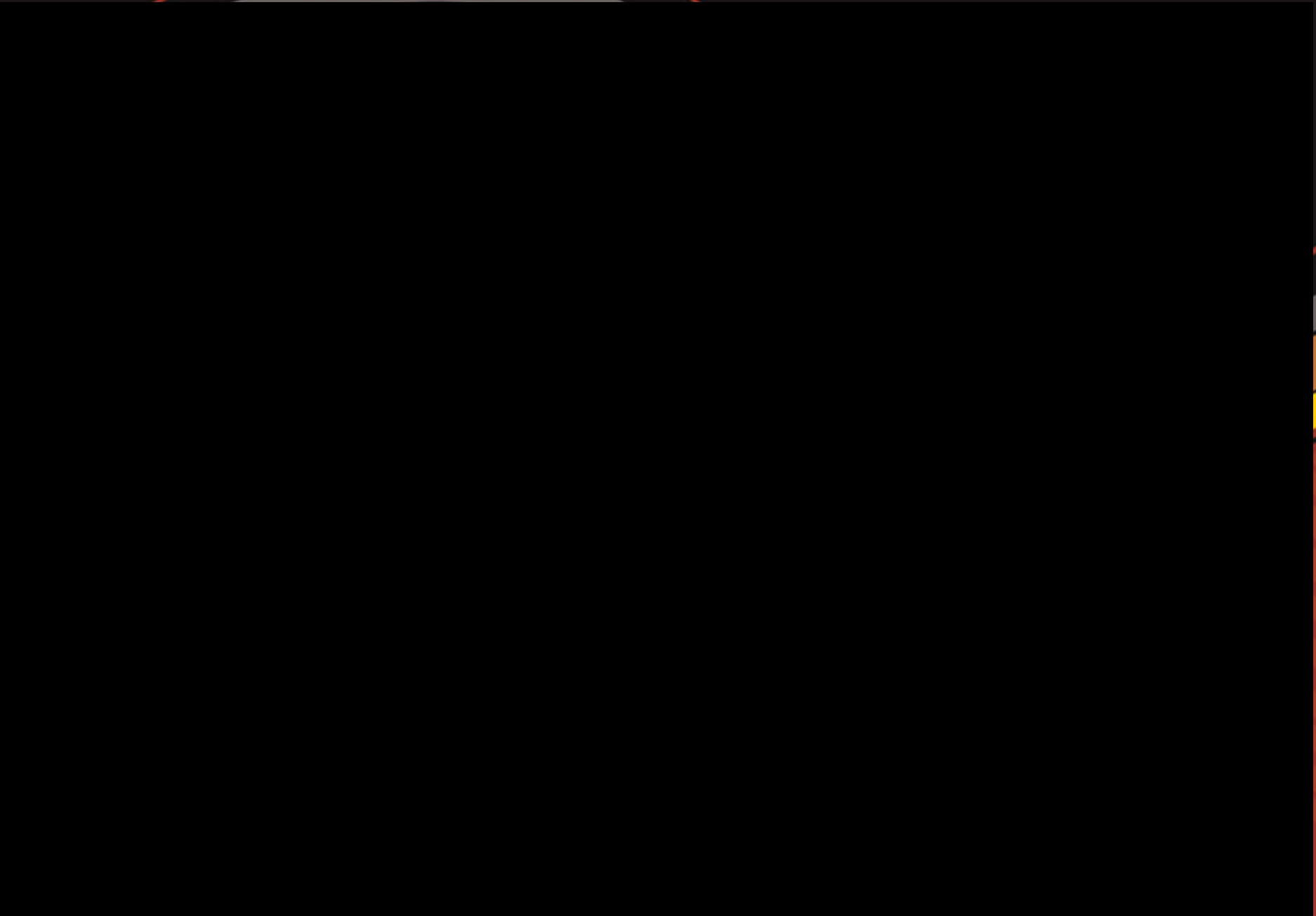
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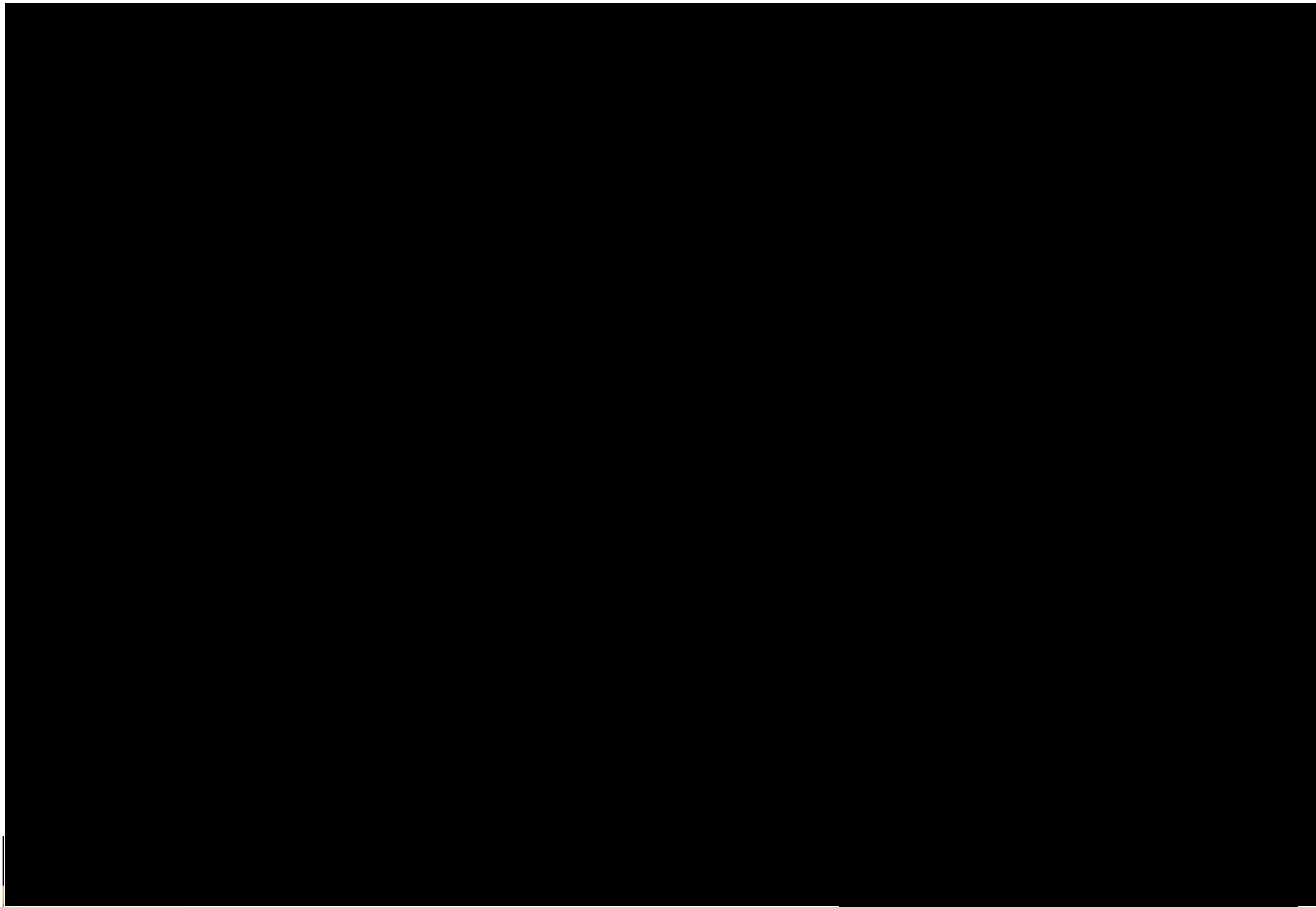
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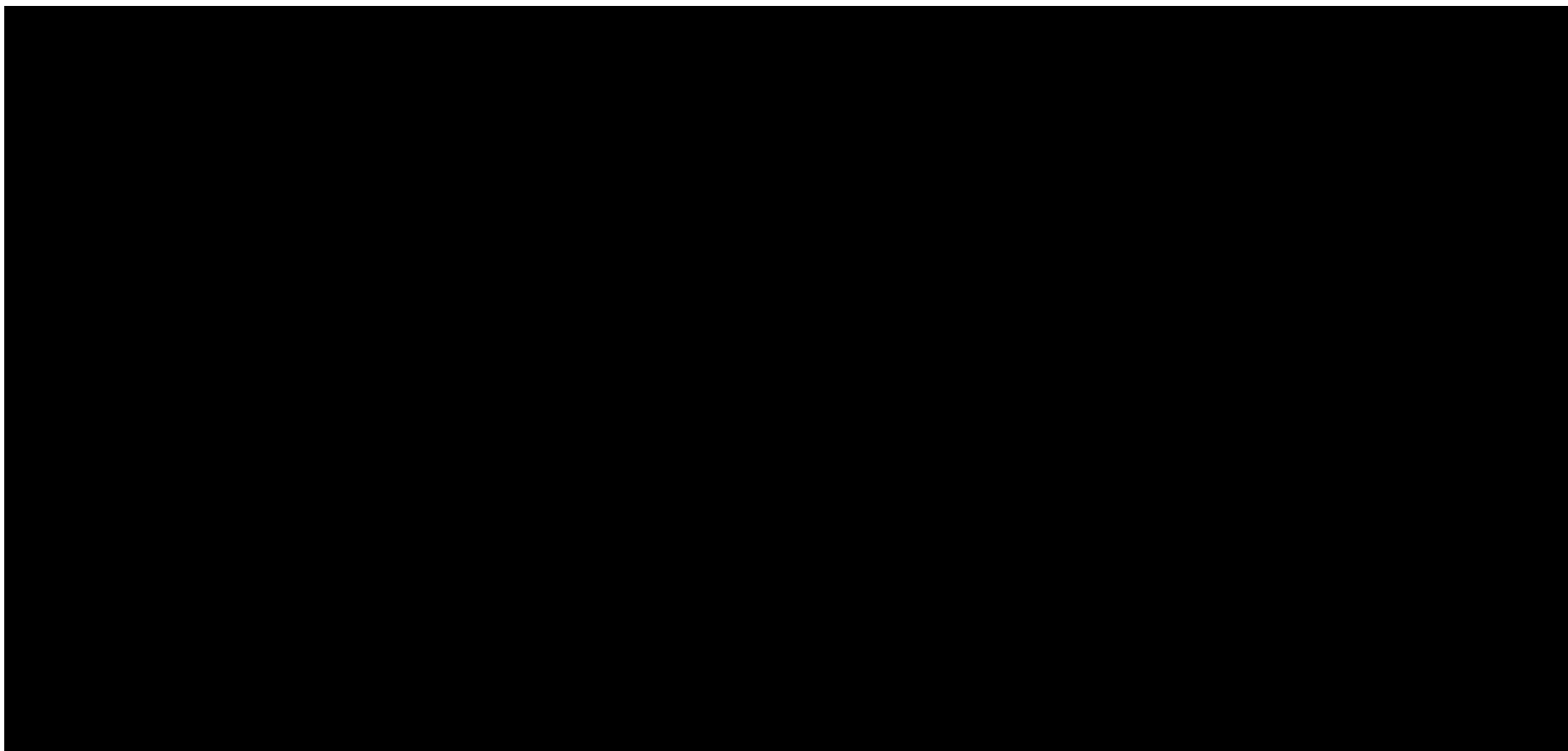
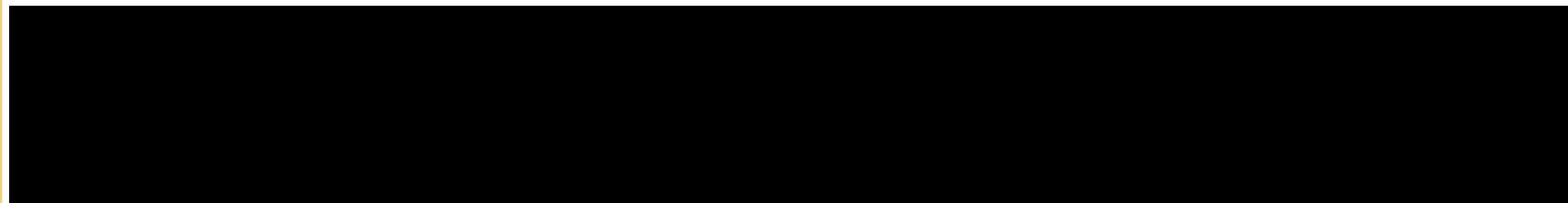


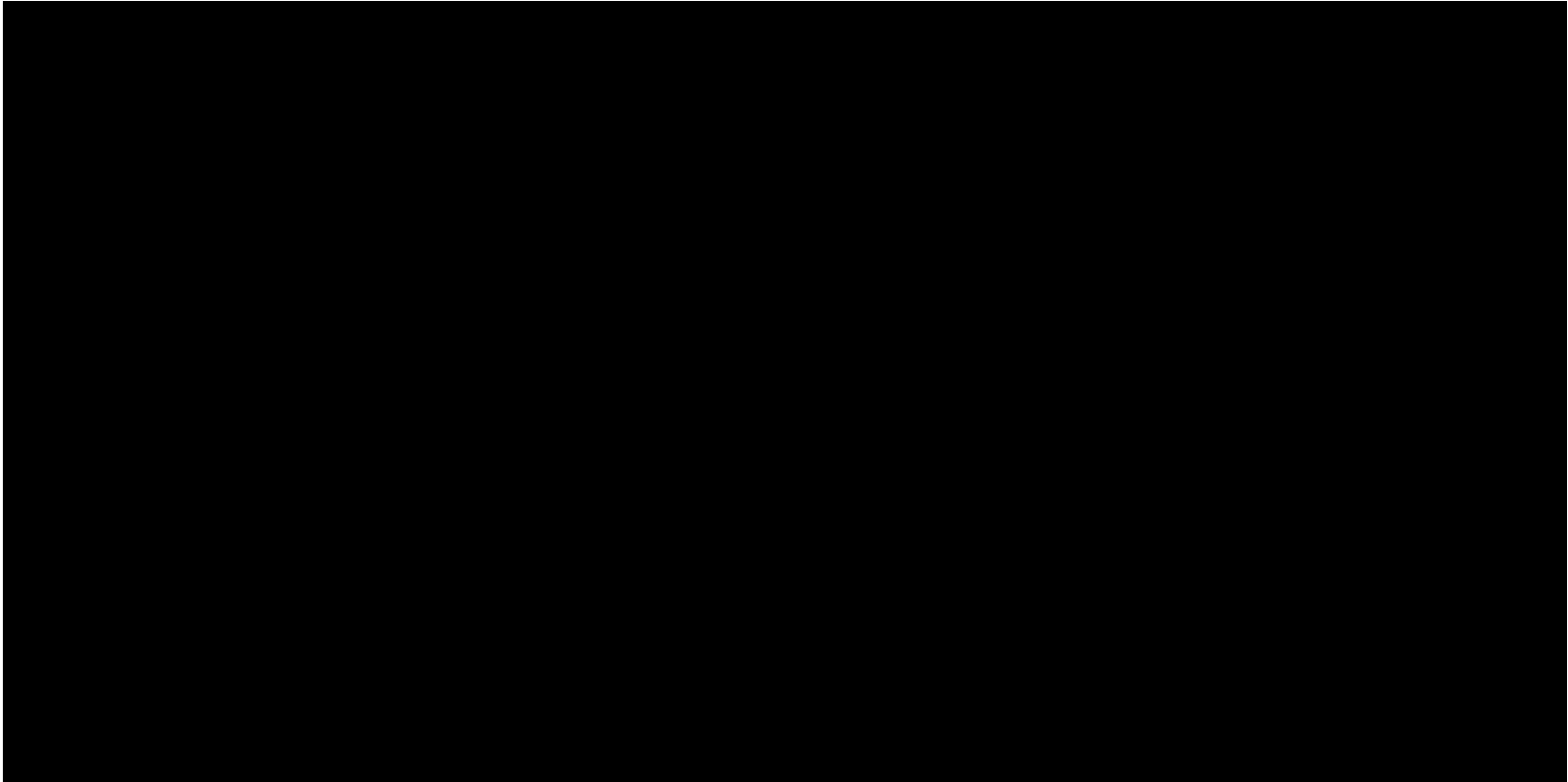
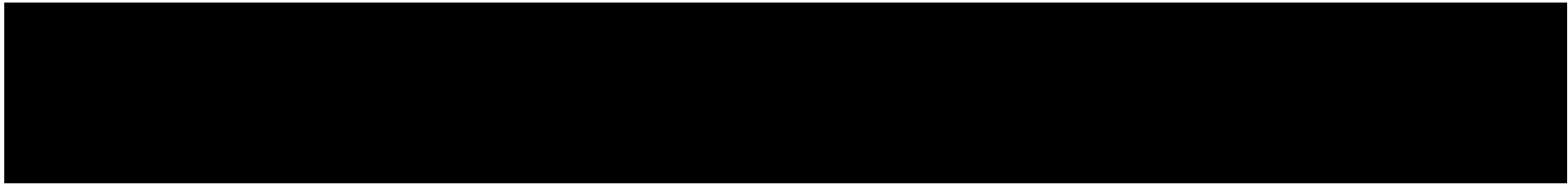


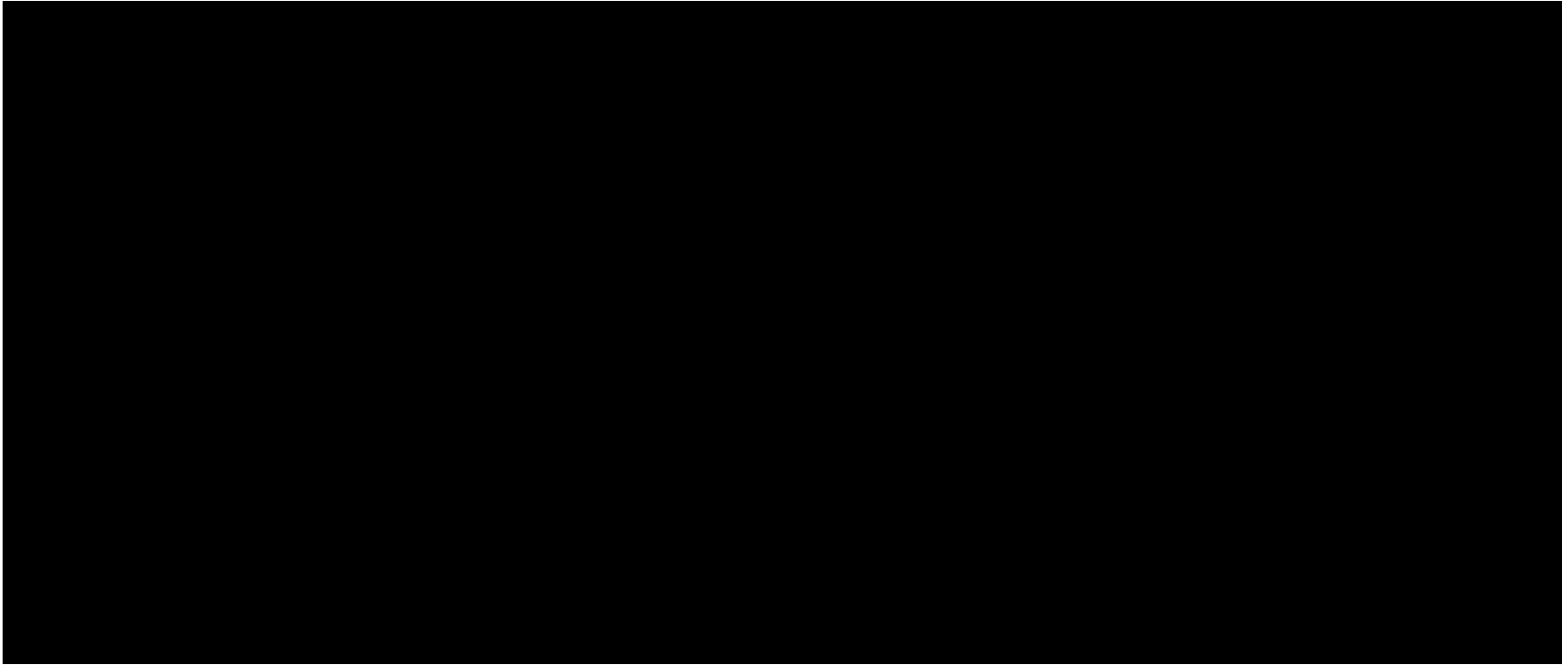
**Questions?**











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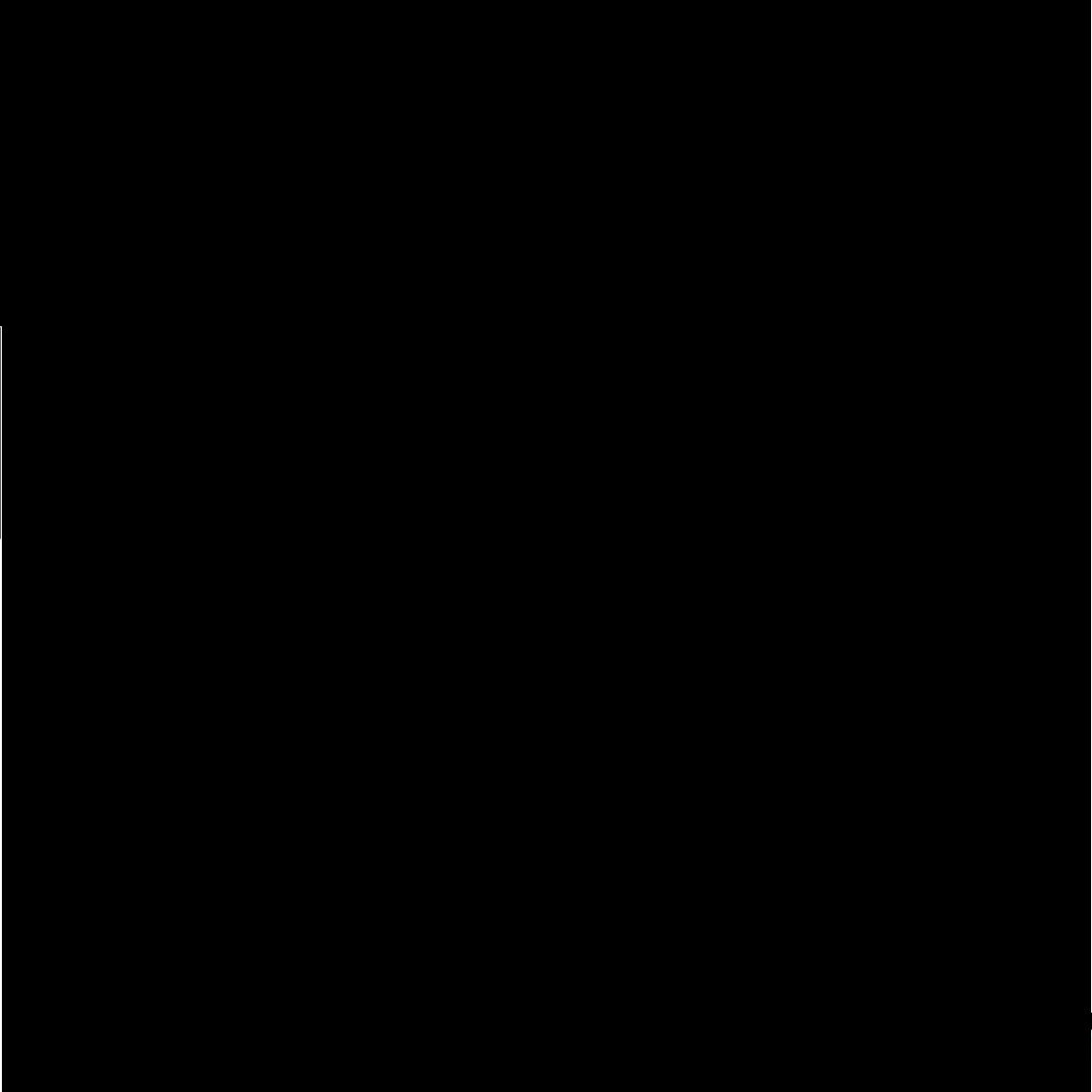
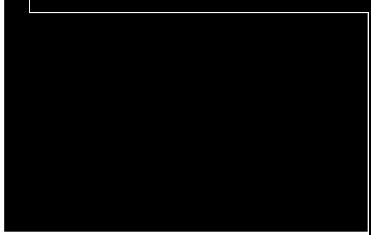
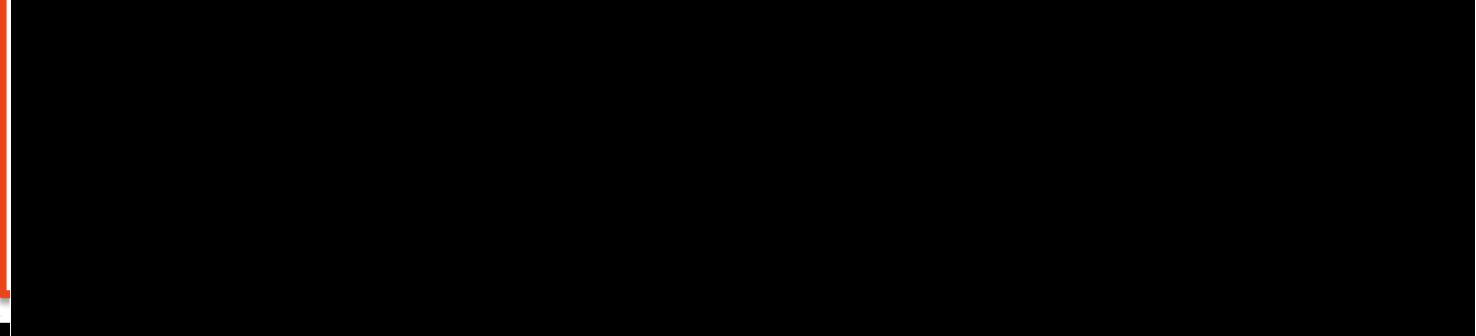
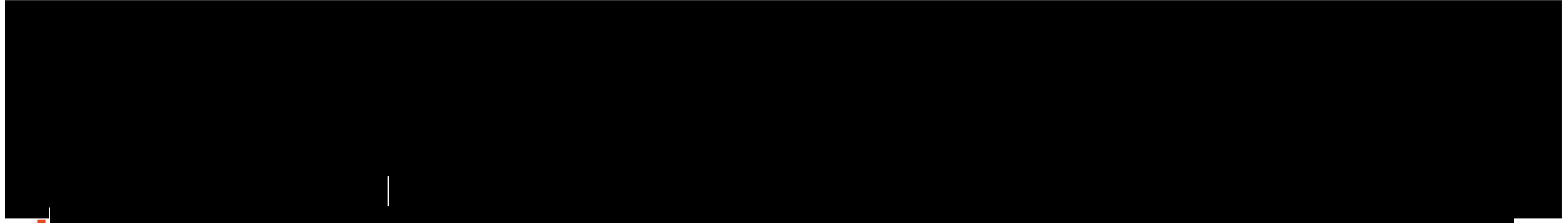
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Sea, Our Life





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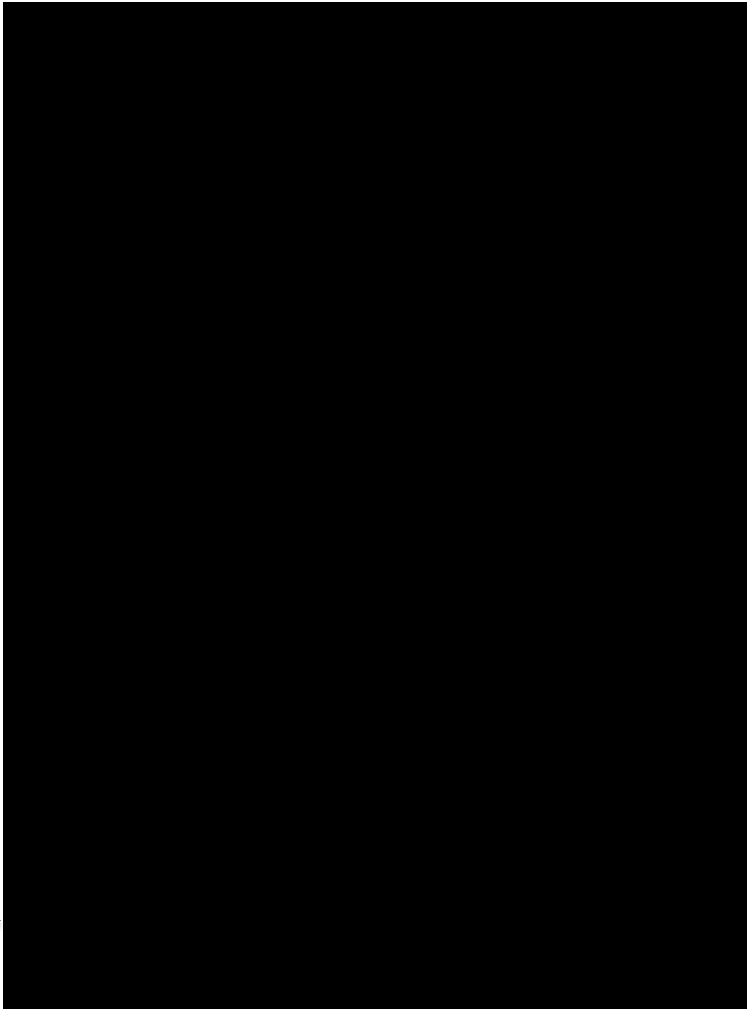
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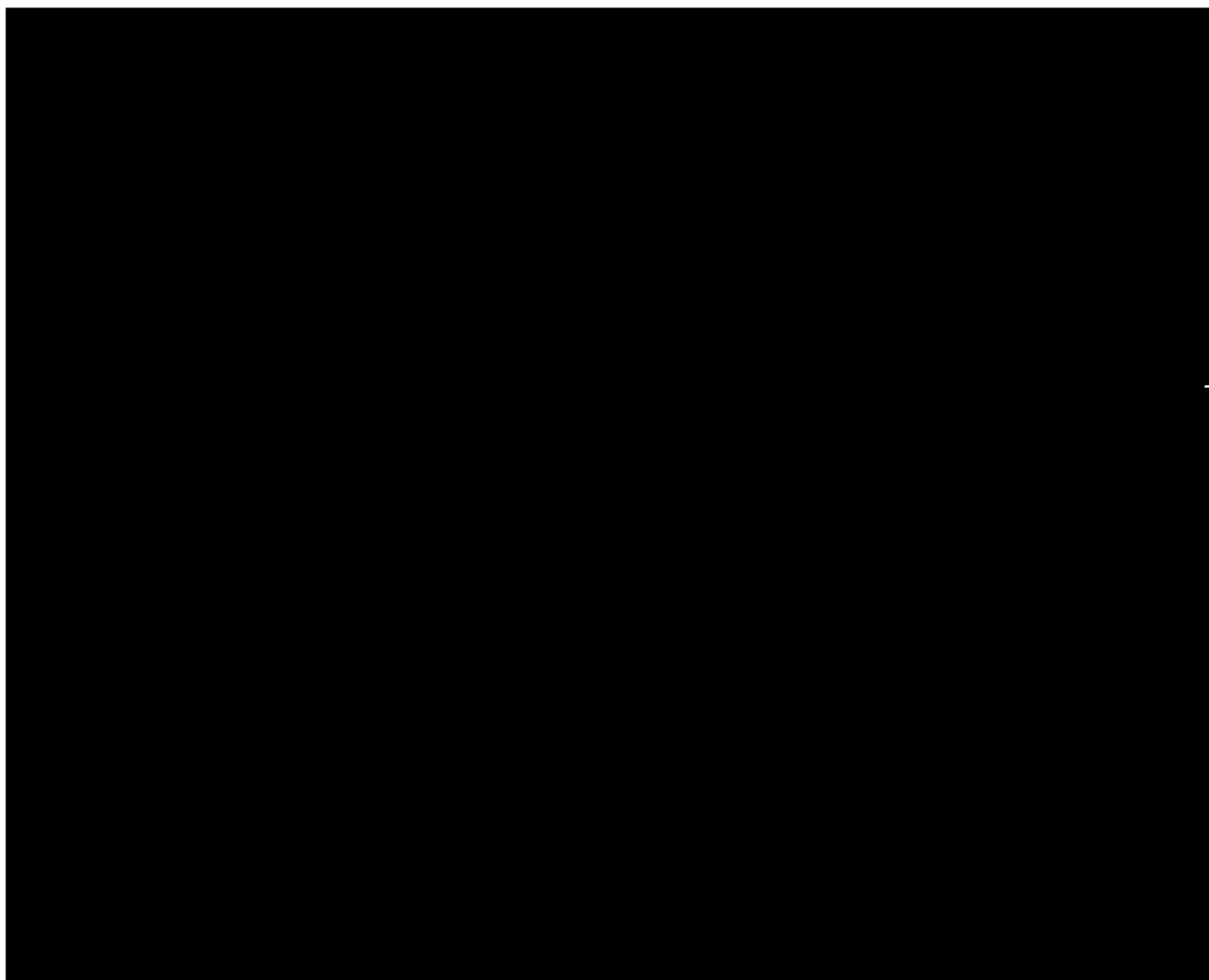
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Sea, Our Life



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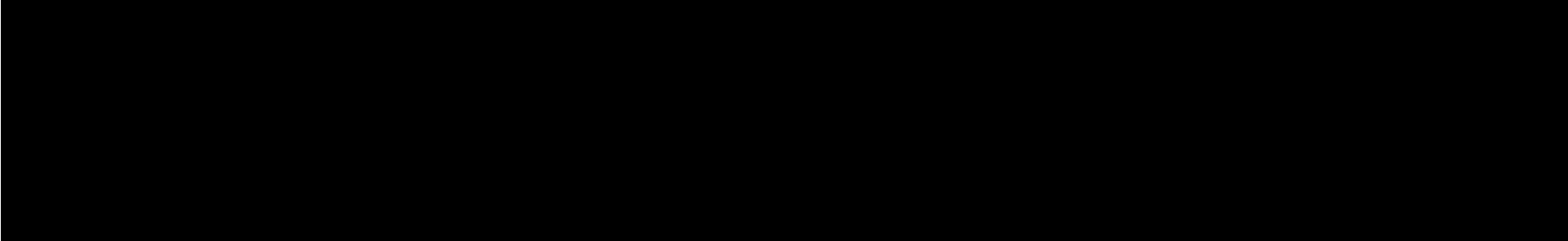
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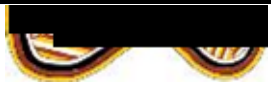
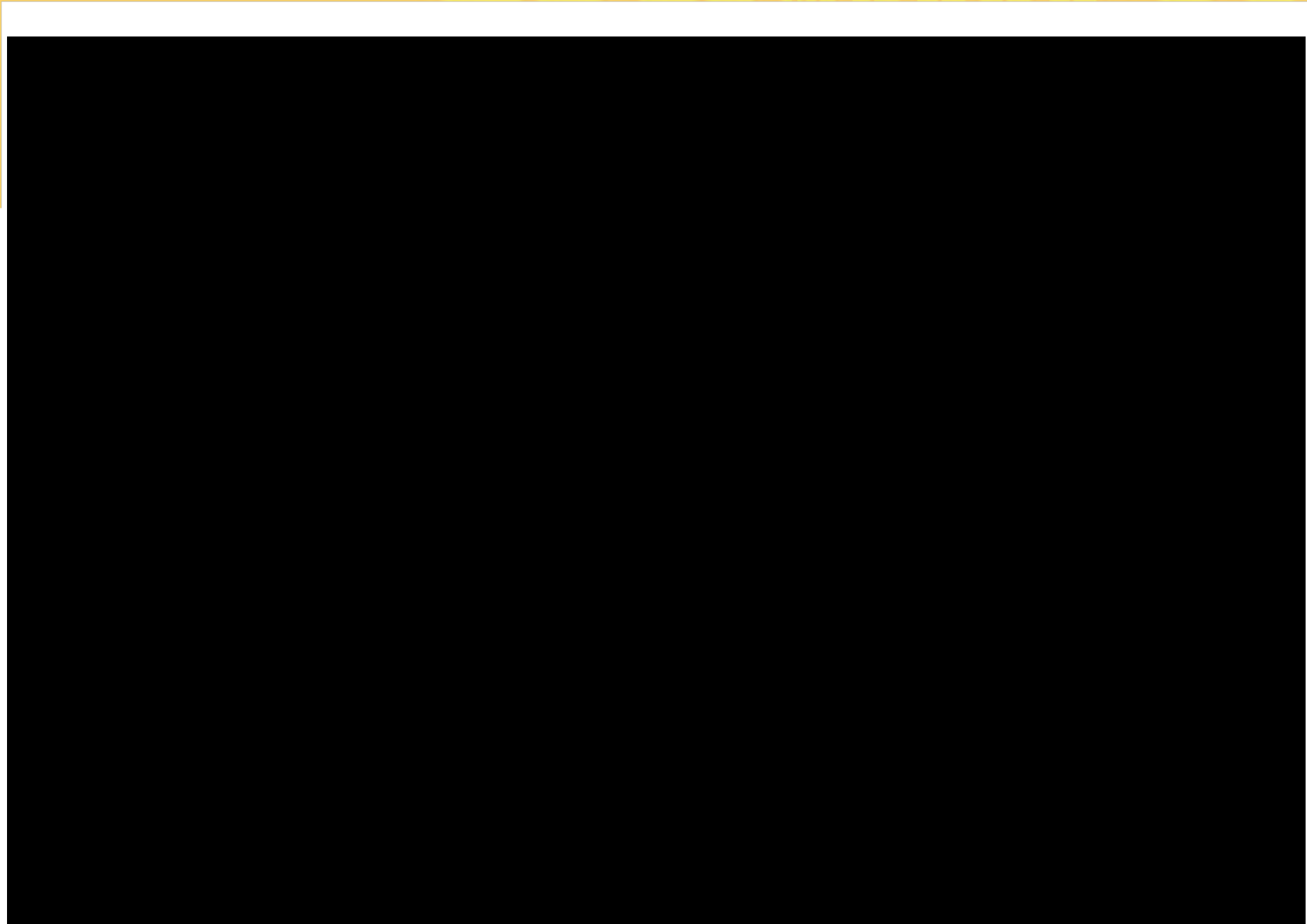
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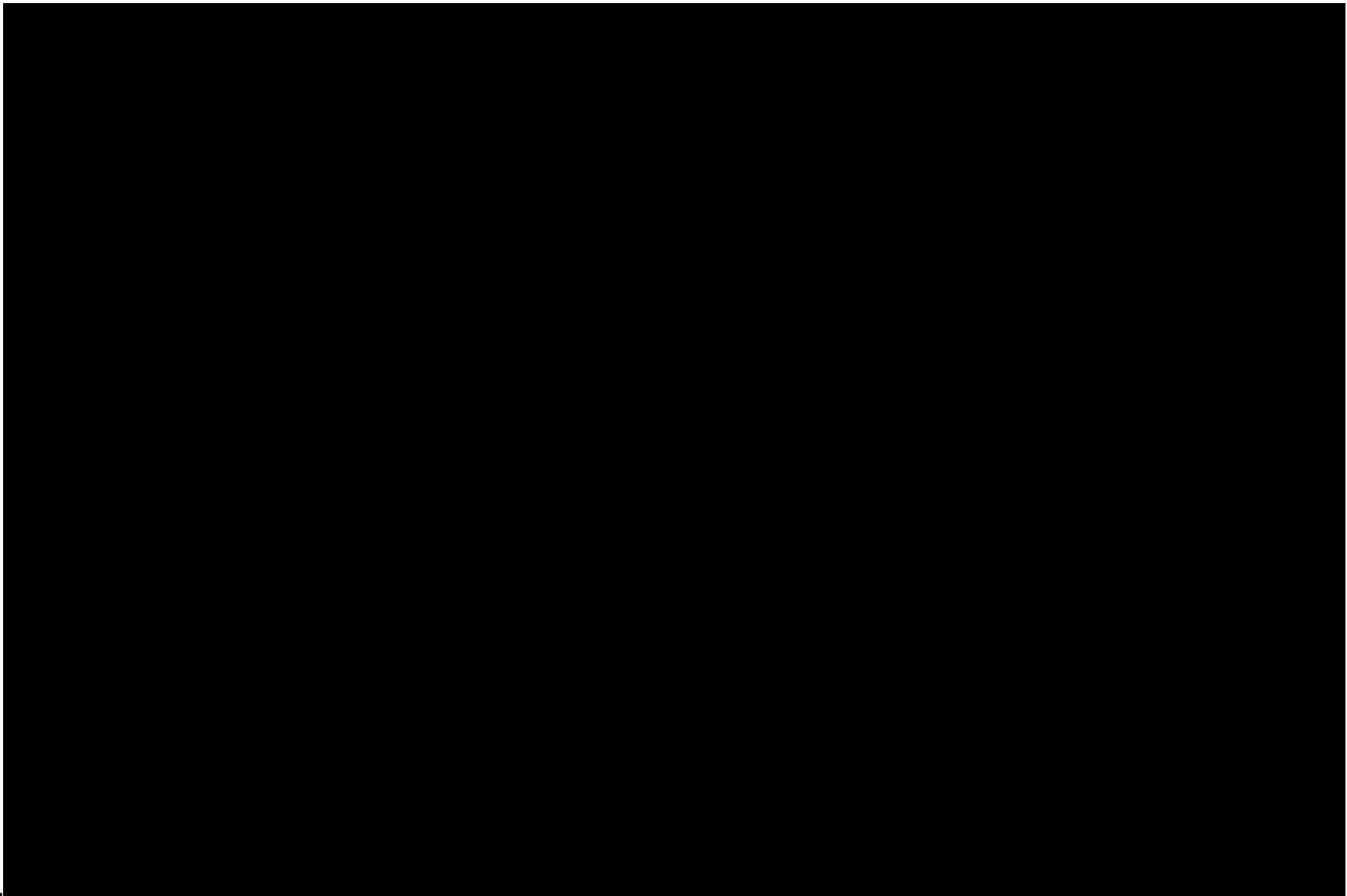
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**Appendix J.1.2 11 240410 Re: EP 98 & 117 - QLD site visit discussion**

**From:** [Emily Beresford-Cane](#)  
**To:** [REDACTED]  
**Cc:** [Matt Kernke](#); [Sarah Lillie](#); [Armando de la Flor Olavide](#); [Russell Jeffrey](#)  
**Subject:** Re: EP 98 & 117 - QLD site visit discussion  
**Date:** Wednesday, 10 April 2024 1:39:42 PM

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Hi [REDACTED]

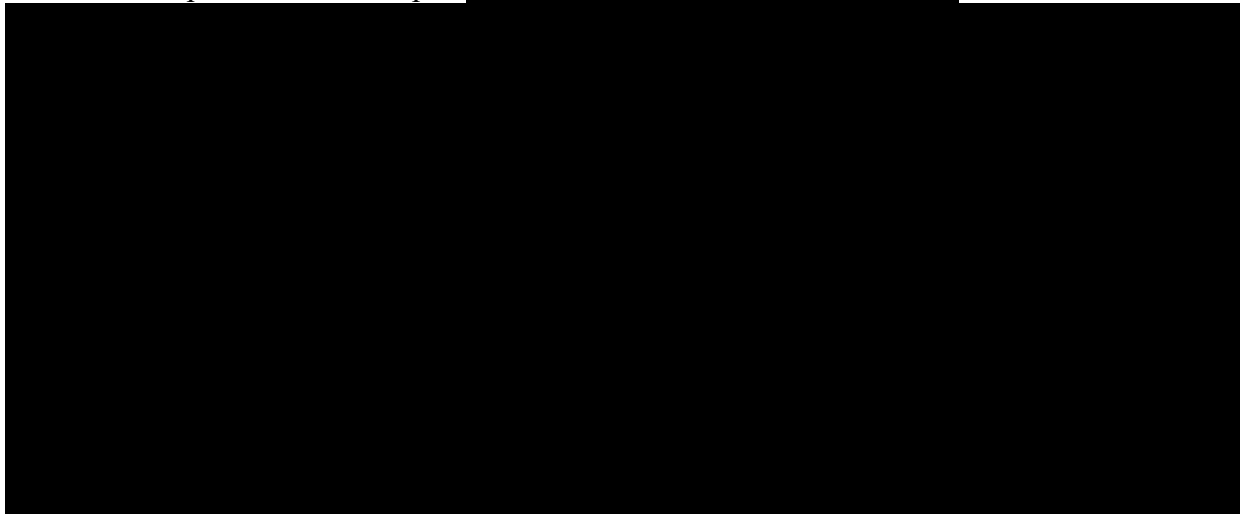
I agree it would be great to discuss the site visit asap.

Unfortunately I am not available but Matt will be, along with Russell Jeffrey and Armando de la Flor Olavide. Russell and Armando will be able to join you in the NLC offices if that works.

Please let us know what time on Friday works for NLC.

Kind regards  
Emily

On 10 Apr 2024, at 12:27 pm, [REDACTED] wrote:



Resources & Energy Branch  
Northern Land Council



**NORTHERN  
LAND COUNCIL**  
*Our Land, Our Sea, Our Life*



Email: [REDACTED] | Website: [www.nlc.org.au](http://www.nlc.org.au)

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