ASX Release 21 October 2025

Boss Energy Presentation to the Global Uranium Conference

Boss Energy Limited (ASX: BOE; OTCQX: BQSSF) is pleased to provide a copy of the presentation to be delivered by Managing Director and CEO Mr Matthew Dusci, at the 2025 Global Uranium Conference in Adelaide, South Australia.

Mr Dusci will be presenting at 11.20am ACDT on Tuesday 21 October 2025.

This ASX announcement was approved and authorised by the CEO on behalf of the Board of Boss Energy Limited.

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BOSS ENERGY

A global multi-mine Uranium producer

Global Uranium Conference

21 October 2025

ASX: BOE | OTCQX: BQSSF

Boss has expanded its portfolio of assets

Our Business

Uniquely positioned with operating assets…..

Honeymoon Operation
Production

Third producing Uranium mine in Australia

Achieved first year guidance and on-track to achieve 1.6Mlbs in second year

Alta Mesa JV Operation (30%)
Production

Joint Venture with enCore (30%/70%) in Texas USA

Achieved uranium extracted of 508Klbs in FY25 and continuing to bring on new wellfields

…. and organic growth and value creation opportunities

Goulds Dam & Jasons
Study + Permitting

Satellite deposits to Honeymoon Operation

Advancing drilling, studies and permitting

Laramide Resources
19.9% Shareholder

Holds a 19.9% shareholding in Laramide Resources

Westmoreland one of the largest and highest-quality uranium development projects in Australia ~ MRE of 65.8M lbs U_3O_8[1]

Exploration
Ongoing

Strong ground holding and exploration expertise

Accelerating exploration opportunities in the Honeymoon catchment

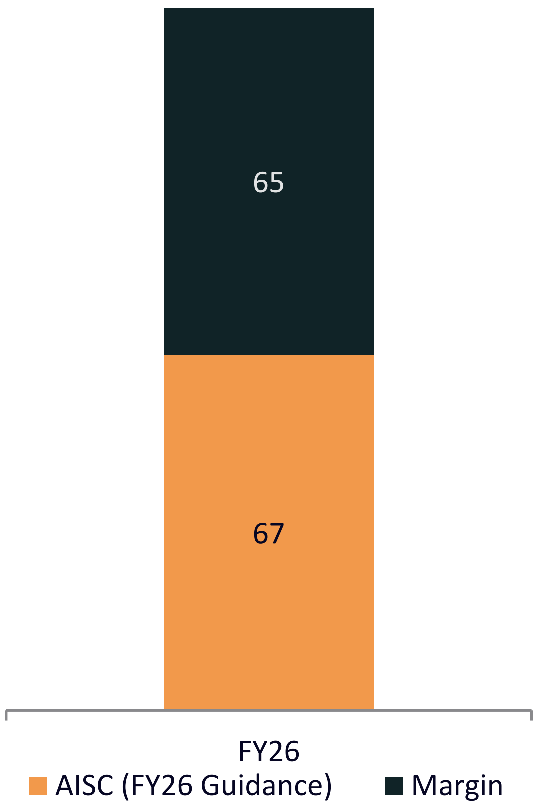
Notes

1. *Refer to Laramide's ASX Announcement on 7 March 2025 "Laramide MRE Update for Westmoreland Uranium Project (amended)" for further information*

Boss is well positioned to self-fund growth opportunities

Financial Strength

SUSTAINING MARGIN (AUD/lb)[1]



Strong Financial Position

A$224 million in cash and liquid assets[2]

A$37 million in cash[2]

1.41M lbs held in Uranium Inventory[2]

Received US$10.6 million in August 2025 with enCore loan repayment

Margin of A$65/lb based on FY26 AISC guidance[3]

Notes

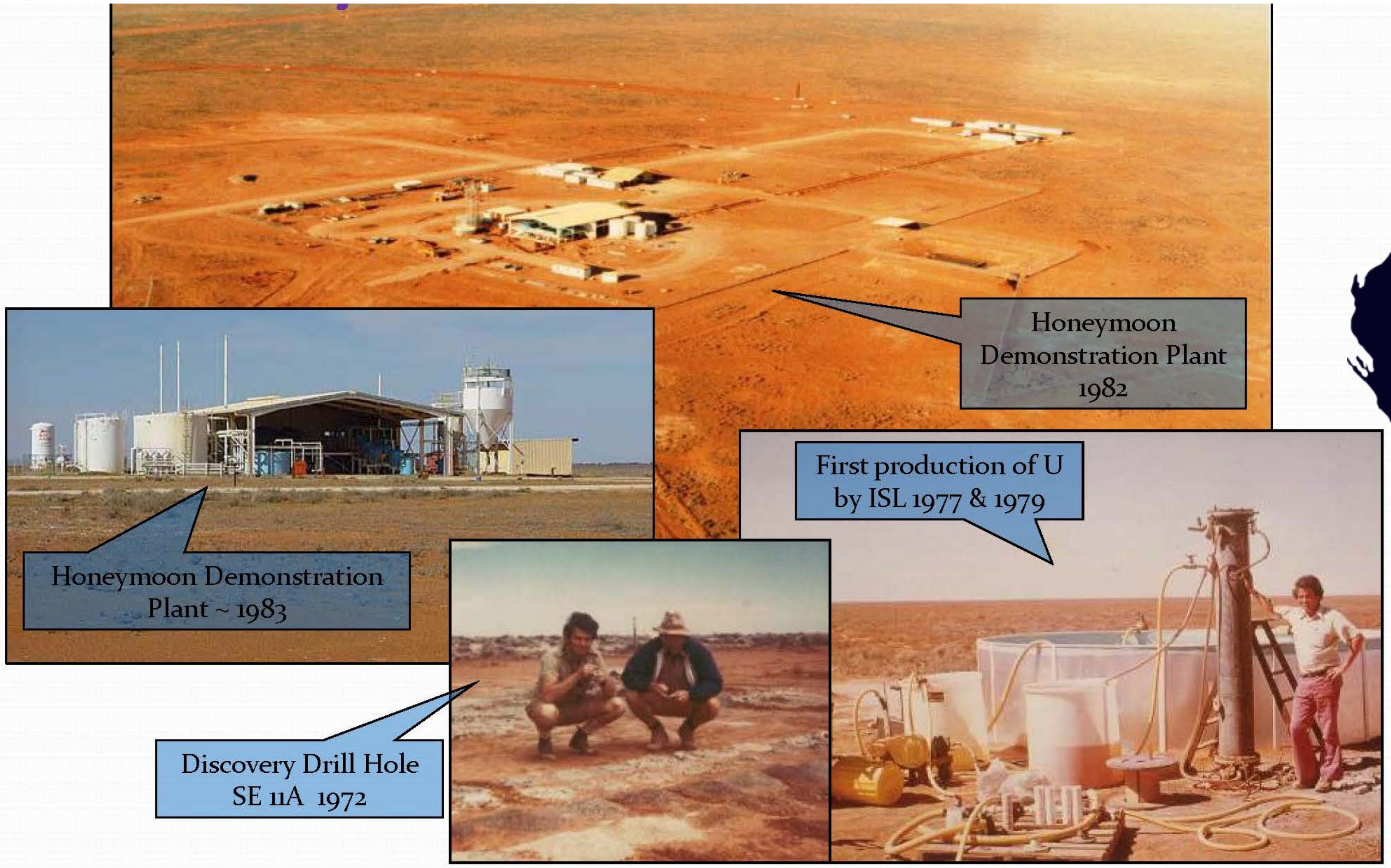
1. *Based on U_3O_8 price of US$82/lb FX of AUD/USD 0.65*
2. *As at 30 June 2025. Refer to Boss Energy's announcement on 29 August 2025 titled "FY2025 Financial Results" for further information*
3. *Refer to Boss Energy announcement on 28 July 2025 titled "Honeymoon FY26 Guidance" for further information*

Honeymoon

Building mines takes time...

Honeymoon took half a century from discovery to being a commercially viable mine...

Honeymoon Uranium Mine History



Boss has executed on key milestones over past 10 years

Development milestones

Dec 15: Acquisition of Honeymoon

Sep 16: Scoping study complete

May 17: Pre-Feasibility complete

Nov 17: Successful Field Leach Trial

Complete early studies and prove the chemistry

Feb 19: Mineral Resource Upgrade

Jan 20: Feasibility study complete

Upgrade the resource and further studies

Mar 21: $60M Capital Raising

Enhanced Feasibility Study

Mar 22: $125M Capital Raising

Jun 22: Final Investment Decision

Raise capital, secure inventory and finalise study

Jan 24: Boss acquires 30% of Alta Mesa Mine

Apr 24: Honeymoon restarts production

Jul 24: Alta Mesa restart production

Expand internationally and commence production

Jan 25: Declare Honeymoon Commercial production and provide Guidance

April 25: Honeymoon Free Cash Flow positive

June 25: Honeymoon exceeds 1st Yr Guidance

Declare commercial production and positive cash flow

Leveraging technical expertise to optimise

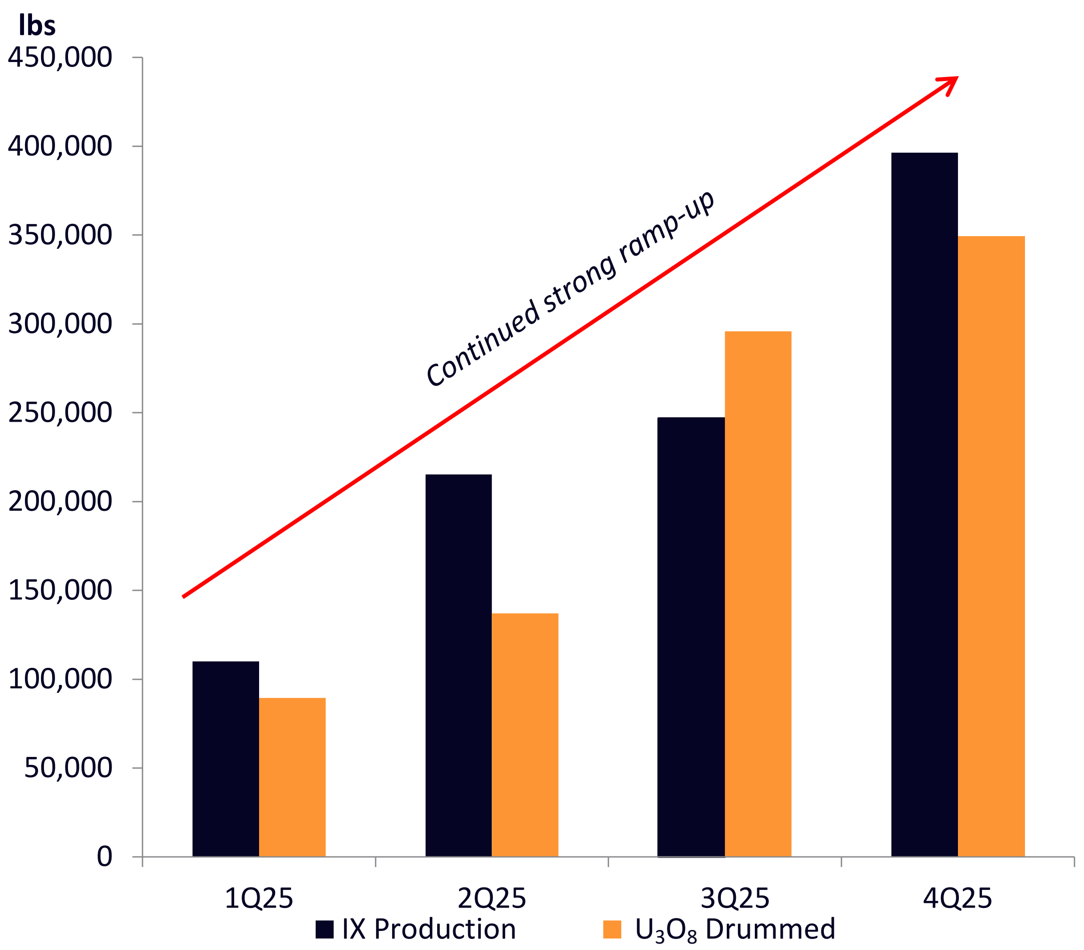
Processing stages

1. Wellfield Insitu Leach
2. Ion Exchange & Stripping
3. Precipitation
4. Drying & Calcination
5. Drumming & Packing
6. Logistics

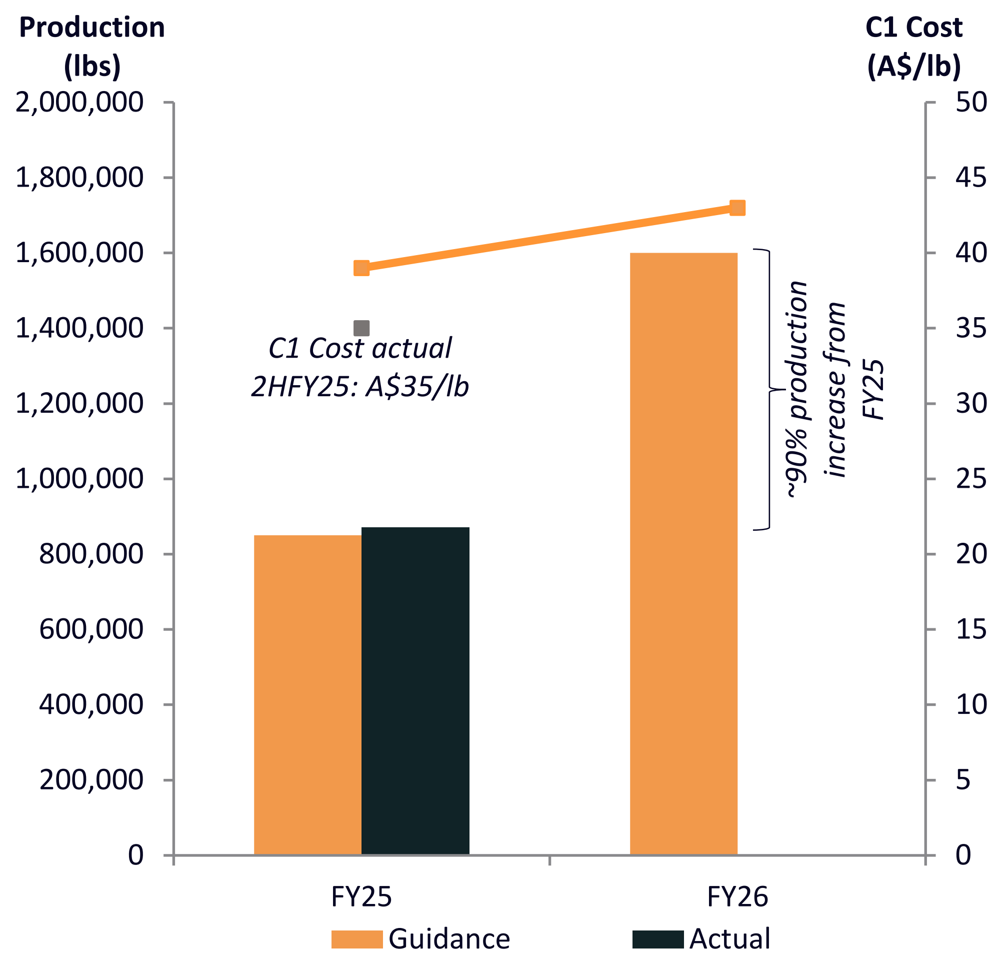
Strong production growth keeps Boss on track to meet guidance

Honeymoon Production Results

HONEYMOON QUARTERLY PRODUCTION



HONEYMOON GUIDANCE AND ACTUAL RESULTS



Wellfields are being developed to support future production

Wellfield development

Wellfield B4 – in production during September FY26 Quarter

Wellfield B5 – scheduled to bring into production December FY26 Quarter

Wellfields for B6-B9 currently under construction

Wellfields B10-B13 at design stage

Trunkline to Far East Kalkaroo – scheduled for completion and operation March FY26 Quarter

Learnings applied from NIMCIX commissioning to future NIMCIX columns

NIMCIX Ramp up

NIMCIX columns 1-3 installed (Q1FY25, Q2FY25 and Q3FY25 respectively)

NIMCIX columns 1 to 3 operating at nameplate

NIMCIX columns 4 & 5 commissioning in December FY25 Quarter

Commissioning and operating of each new column has been in line with expectations

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Resin performance in line with specifications

A broad business has been developed to support production

Continuing to Strengthen and Optimise

Our Team

Team of 125 direct employees

New operating team (78% less than 2 years)

Significant training and development with unique uranium operating skill set

Our culture, our people, are our success

Our Systems and Processes

Core part of ramp-up and operations is our Systems and Processes

Considerable focus on Health and Safety

Building on knowledge from strong mining regions in South Australia and Western Australia

Continued learning and improvements will ultimately drive a safe and productive operation

Our Community/ Our Environment

Environment, Radiation and Biodiversity Management in place and compliant with obligations

Compliant with all our obligations and have made significant progress in strengthening our safeguards

Building on our community and traditional owner engagement

Committed to the region – 30% of expenditure is spent within the Region[1] and ~$10M in government and Traditional Owner royalties to be paid in FY26

Notes

1. *Region is defined as 600km from Honeymoon operation*

Boss continues to build strong technical capability

Technical team

Increased In-house technical capacity

Olivier Regnault
Wellfields Technical Lead

1 Month with Boss

Quals: PhD, Hydrogeology & Geochemistry

Previously with Katco in Kazakhstan as Managing Director and Orano

Steve Telford
Process Manager

1 Month with Boss

Quals: Bachelor Engineering (Chemical)

Previously with Heathgate Resources, BHP

Caren Kosgei
Senior Process Engineer

3 Years with Boss

Quals: Chemical Engineering

Previously with Fremantle Metallurgy

Matt Williams
Senior Hydrogeologist

4 Years with Boss

Quals: BSC Mineral Geoscience, Grad Dip. Groundwater Hydrology

Previously with Heathgate Resources

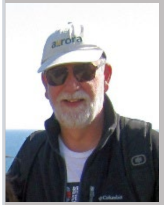
Conrad Wilkins
General Manager, Operations

7 Months with Boss

Quals: BE (Chem) hons MBA CPEng NER FAusIMM

Previously with WGA, Inception Group, Heathgate Resources

Andy Wilde
Chief Geologist



1.5 Years with Boss

Quals: PhD Geology, RPGeo AIG, Fellow AIG & GSA

Previously with Uranerz, Paladin, Deep Yellow, BHP

Ryan Gore
Senior Mine Geologist

3.5 Years with Boss

Quals: BSc. Hons Geology

Previously with Heathgate Resources

Alex Baum
Superintendent, Wellfields Cons.

6 Months with Boss

Quals: Master of Engineering

Previously with BHP Olympic Dam -Reliability Engineer

Boss on track to deliver FY2026 guidance

FY2026 Guidance & Review

Production of 1.6Mlbs U_3O_8

Based on operation of 9 wellfields by June 2026

C1 Cash Cost: A$41 – 45/lbs

All In Sustaining Cost: A$64 – 70/lbs

Operational Review underway associated with mineralisation continuity and leachability assumptions compared to the Enhanced Feasibility Study

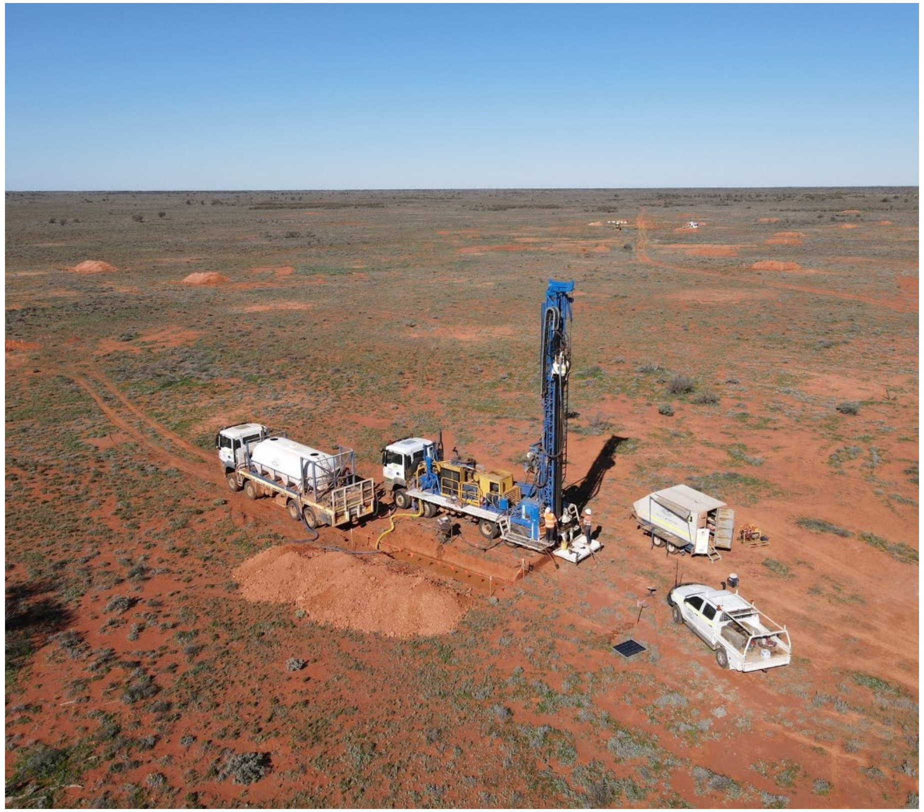
Honeymoon FY2026	Unit	Guidance	
		AUD	USD
Production	Lbs (000's)	1,600	1,600
Cash Cost	$/lb	41-45	27-29
All In Sustaining Cost[1]	$/lb	64-70	41-45
Capital Expenditure			
Sustaining	$M	29-32	19-21
Project and supporting infrastructure	$M	27-30	18-20
Total Capital Expenditure	$M	56-62	37-41

Notes:
1: AISC includes C1 costs, Royalties and Wellfields Sustaining Capital. Refer to Appendix 2 for definitions (2) Assumes U_3O_8 price of US$70/lb and AUD/USD of 0.65

Notes
1. Refer to Boss Energy announcements on 28 July 2025 titled "Honeymoon FY26 Guidance" and on 11 September 2025 titled "Honeymoon Review Update" for further information

Accelerated delineation drilling for resource input

Resource Delineation



Commenced an accelerated resource delineation drilling programme at Honeymoon

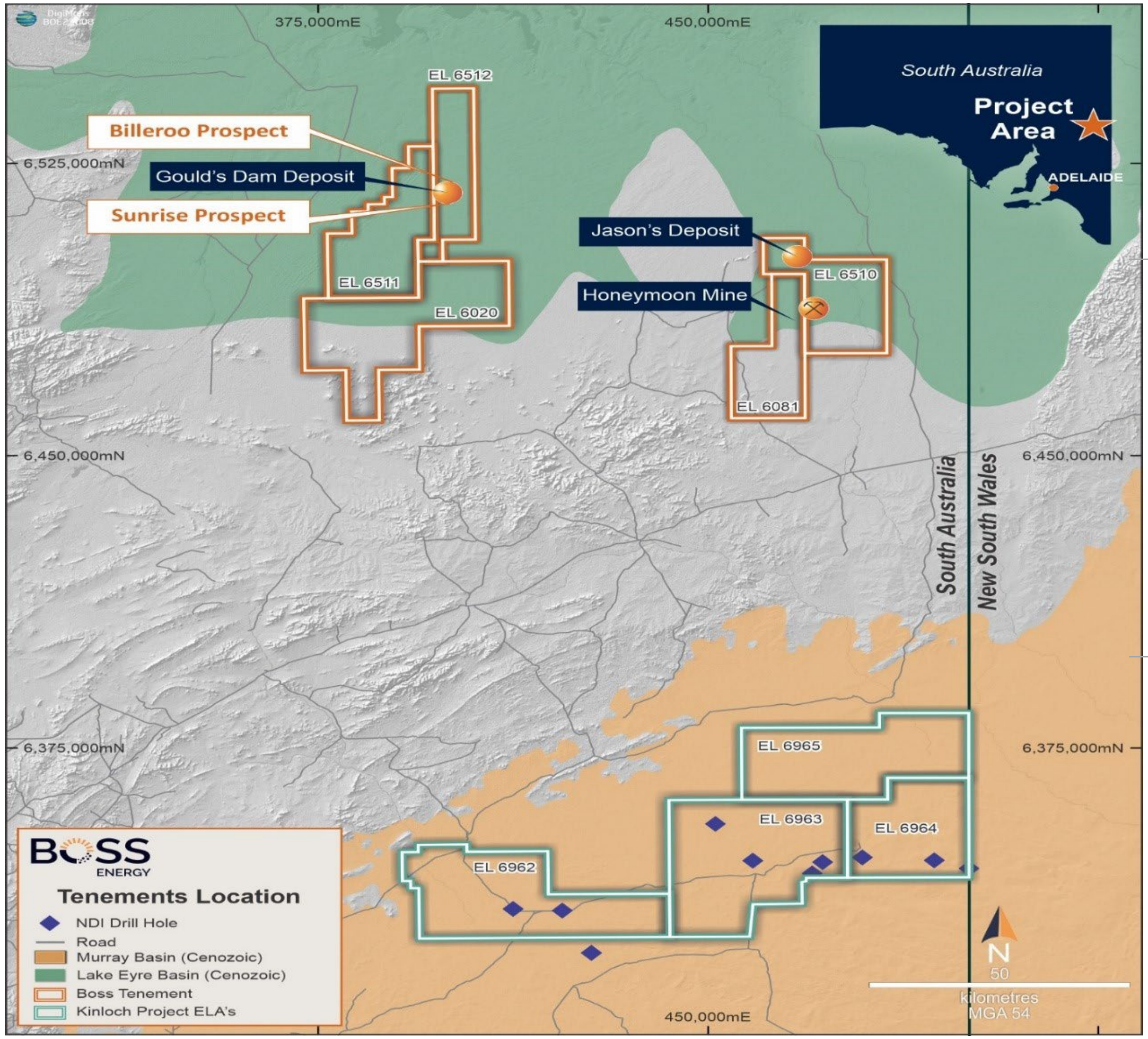
Increase resource confidence and a better definition of the mineable resource

Drill spacing will tighten to ~35m x 35m

The program consists of ~50,000m with an additional 390 holes

Target completion in June Quarter

Satellite Deposits



The Opportunity

- Additional mineral resources to be brought into production
- Ability to leverage existing infrastructure

The Program of Work

Acceleration of our work streams including:

- Resource extension and delineation drilling
- Technical studies
- Permitting

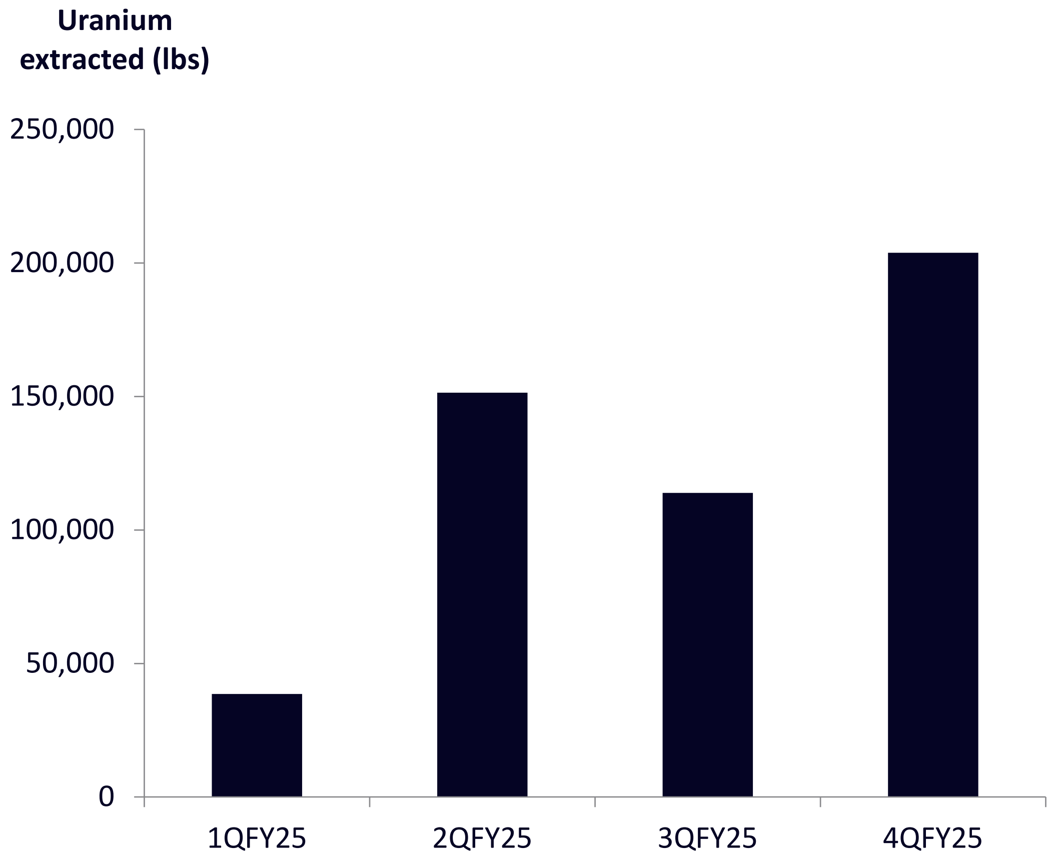
The Team

rsc JBS&G rare RENDEMENT YIELD . EFFICIENCY . OUTPUT AMC consultants mine smarter WGA

Alta Mesa JV continues to bring on new wellfields

Alta Mesa JV

ALTA MESA JV QUARTERLY PRODUCTION (100%)



Joint Venture (70% enCore / 30% Boss)

ISR operation in South Texas (USA)

Total uranium extracted since Boss ownership of 508Klbs (Boss received proportional 108Klbs U_3O_8)

Production in June quarter totalled 204Klbs of U_3O_8, up from 98Klbs of U_3O_8 from previous quarter

Consolidation of highly prospective ground immediately east of the Alta Mesa Operation (Alta Mesa East Project), with drilling to commence shortly

Boss focused on making rapid progress

Immediate Priorities

People	• Continue to build strength and capacity in the team • Transitioned from Developing to Operations teams
FY26 Production	• Safe achievement of 1.6Mlbs U_3O_8 production for FY26
Costs/ Productivity	• Continue to implement programs of work to improve cost, efficiencies and productivity • Fostering a culture of continuous improvement
Satellite Deposits	• Acceleration of the value realisation from the Satellite deposits to Honeymoon
Operational Review[1]	• Complete review and accelerate delineation drilling for resource input

Notes

1. Refer to Boss Energy announcements on 28 July 2025 titled "Honeymoon FY26 Guidance" and on 11 September 2025 titled "Honeymoon Review Update" for further information

A global multi-mine Uranium producer

Summary

- Successful ramp-up of Honeymoon Operation making it Australia's third operating uranium mine
- Delivered first year guidance of 850klbs and on-track to deliver second year guidance of 1.6Mlbs for FY26
- Strong financial position with $224M in cash and liquid assets with operating assets generating free-cash
- Accelerating key workstreams, including unlocking the satellite deposits and strengthening team capacity
- Focused on the delivery of the "Operational Review" and on track for completion in December Quarter[1]

Notes

1. *Refer to Boss Energy announcements on 28 July 2025 titled "Honeymoon FY26 Guidance" and on 11 September 2025 titled "Honeymoon Review Update" for further information*

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This ASX announcement was approved and authorised by the CEO on behalf of the Board of Boss Energy.

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