



DIGGERS & DEALERS PRESENTATION
August 2016

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The information in this presentation that relates to Exploration Results and Mineral Resources is based on information compiled by Dr M. Abzalov, who is a Competent Person according to the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (2012) ("JORC Code 2012"). Dr M. Abzalov is a Fellow of the AusIMM. He has sufficient experience in estimation Resources of uranium mineralisation, and have a strong expertise in the all aspects of the data collection, interpretation and geostatistical analysis to qualify as a Competent Person as defined in the Jorc Code 2012. Dr M. Abzalov is employed as a director of Boss Resources Ltd. Dr M. Abzalov consents to the inclusion in the report of the matters based on their information in the form and context in which it appears. This information was initially reported to the ASX on 1 September 2015, 20 January 2016, 6 April 2016 and 14 June 2016 and has not materially changed.

The information in this presentation that relates to the Honeymoon Project Exploration Target and associated Exploration Data is based on information provided by Mr. Neil Inwood, who is a Fellow of the AUSIMM. Consent is granted only for the purposes of outlining an Exploration Target, no warranty is made on the use of the exploration information and data for other purposes. Mr Inwood is a consulting geologist and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity undertaken to qualify as Competent Persons as defined in the JORC Code 2012. Mr. Inwood has consented to the inclusion of this information in this document in the form and context in which it appears. An entity associated with Mr Inwood has shares in Boss Resources Ltd. This information was initially reported to the ASX on 8 December 2015 and has not materially changed.

The Exploration Target is conceptual in nature as there has been insufficient exploration to define a Mineral Resource. It is uncertain if further exploration will result in the determination of a Mineral Resource under the JORC Code 2012. The Exploration Target is not being reported as part of any Mineral Resource or Ore Reserve.

WHY URANIUM?

Nuclear Power: The Best Solution

- Nuclear power provides the best solution for a non-polluting 24:7 base load power source
- Zero Carbon Emissions
- Over 440 existing nuclear plants, focused in Europe, North America, Russia, South Korea and Japan
- 1.7 billion of the world's population is still without electricity
- Emerging economies will need to implement a combination of nuclear, coal, gas and renewables to meet their growing power requirements
- Nuclear power needs to be made readily accessible and affordable to the emerging economies to ensure that non-polluting sources are chosen in the hunt for more power



CLIMATE CHANGE REQUIRES NUCLEAR ENERGY INVOLVEMENT

"There's really only one technology that we know of that supplies carbon-free power at the scale modern civilization requires, and that is **nuclear power**"

- Ken Caldeira of Stanford University's Department of Global Ecology

MARKET DEMAND

Global Reactor Growth

- Global nuclear generation capacity will increase 70% over the next decade from 374,067MWe to 636,693MWe
- Annual uranium demand will increase from 177mlbs to 280mlbs by 2020, representing a 58% increase
- Additional 390mlbs will be needed for new initial cores

64 UNDER CONSTRUCTION

- **Generation Capacity:** 74,886 MWe
- Annual Uranium Demand: 13,000 tonnes U

441 OPERABLE REACTORS
DECEMBER 2013

- Generation Capacity: 374,067 MWe
- Annual Uranium Demand: 64.978 tonnes U

173 PLANNED REACTORS

- Generation Capacity: 187,740 MWe
- Annual Uranium Demand: 32,600 tonnes U







Official Plan – 15 Gwe installed by 2025

Uranium buying spree (long term contracts) – Canada, Kazakhstan, Uzbekistan

Establishment of "Strategic Uranium Reserve" of between 13 and 39 million lbs. U3O8

REACTORS OPERATING
With installed capacity of 6 GWe

UNDER CONSTRUCTION
Capacity of 6 GWe

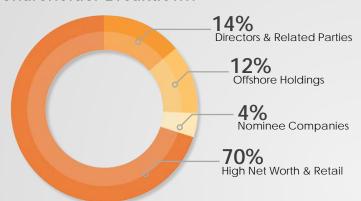
PLANNED

Totalling 24 GWe



CORPORATE STRUCTURE

Shareholder Breakdown



Existing Shares (ASX:BOE)	886 million
Performance Rights*	40 million
Options (\$0.02 Aug 18)	10 million
Cash (30 June 2016)	~ \$3 million
Market Capitalisation (at \$0.05)	~\$44 million
Top 100 Shareholders	~ 80%

Share Price Movement



HONEYMOON HIGHLIGHTS



PERMITTED

Fully permitted Uranium operation (only 1 of 4 in Australia)



TARGET

Significant exploration target Huge 80+ km potentially mineralised strike 2,600km² under explored uranium province 57.8Mlb U₃O₈ JORC Resource



INFRASTRUCTURE

\$170m plant and infrastructure in place



LOW CAPEX

Unique option on Uranium price – operations can commence with low CAPEX targeting cash costs of <\$18/lb production



PEER COMPARISON

ASX LISTED STOCKS

Company	Initial Capex (AUD\$)	Mining Permit	Resource MIb	Grade PPM	Mining Type	Market Cap (AUD\$)	\$ Resource Valuation	C1 Costs US\$/Ib
Toro Energy (ASX:TOE)	315m	X	84	482	Bulk surface	100m	1.94	31
Vimy (Energy & Minerals) (ASX:VMY)	378m	X	76.2	520	Surface	73.6m	1.06	31
Peninsula Resources (ASX:PEN)	46m (stage 1)	√	54	476	ISL	123m	1.61	29
Berkeley Resources (ASX:BKY)	169m	√	89.3	514	Hard rock Open pit	176m	1.40	13.3
Boss Resources (ASX:BOE)	Constructed	✓	57.8	654	ISL	44m	0.72	Target <18



PEER COMPARISON

NORTH AMERICAN LISTED STOCKS

Company	Initial Capex (US\$)	Mining Permit	Resource MIb	Grade PPM	Mining Type	Market Cap (US\$)	US\$ Resource Valuation	C1 Costs US\$/lb
Uranium Energy Corp. (NY: UEC)	Production	✓	75		ISL	114m	5.40	16.27
Energy Fuels (TSX:EFR)	Production	√	131.6	972	ISL & Hard rock	129m	1.31	25*
NexGen (TSXV:NXV)	Exploration	X	201.9	2630	Hard rock	538m	3.96	
Fission Uranium Corp. (TSX:FCU)	1,100m	X	108	1600	Hard rock – OP/UG	268m	3.43	17.50
Boss Resources (ASX:BOE)	Constructed	✓	57.8	654	ISL	33m	0.72	Target <18

*Estimated

CAD\$1 - US\$0.766 AUD\$1 - US\$0.759



DIRECTORS

Mark Hohnen Chairman

Mr Hohnen has extensive international business experience in a wide range of industries. He is currently a Board member of Swakop Uranium and was the founding Executive Chairman of Kalahari Minerals Plc.

Marat Abzalov Executive Director - Geology

Dr Abzalov has a PhD in Geology. Marat has recently completed an invited study of ISL styles of mineralization, including those in Australia. He is also an ex-Exploration manager for Rio Tinto Eurasia, with extensive experience in Kazakhstan uranium projects.

Evan Cranston Corporate Director

Mr Cranston is a corporate lawyer with experience in publicly listed entities including capital raisings, offerings, and liaison with market analysts and investors.

Grant Davey Executive Director

Mr Davey is a mining engineer with 20 years of senior management and operational experience in the construction and operation of Uranium, gold, platinum and coal mines in Africa, Australia, South America and Russia.

Peter Williams Non Executive Director

Mr Williams is an explorationist/geophysicist with over 30 years experience. He has extensive experience in West Africa, Australia, Fennoscandia, and Canada.



AUSTRALIAN

URANIUM PROJECTS



HONEYMOON

- One of the highest grade unmined uranium resources in Australia
- 1 of 4 fully permitted uranium projects in Australia (3 in South Australia)
- Curnamona Basin a significant underexplored uranium province
- Targeting >100mlbs resource
- Currently on care and maintenance



HONEYMOON RESOURCE

SIGNIFICANT EXISTING HIGH GRADE RESOURCES - HIGHEST GRADE AMONGST ASX LISTED PEERS

2016 Honeymoon Project Mineral Resource

Covering the Eastern and Western Tenement Regions. Reported Above a preferred 250ppm U₃O₈ lower cut-off

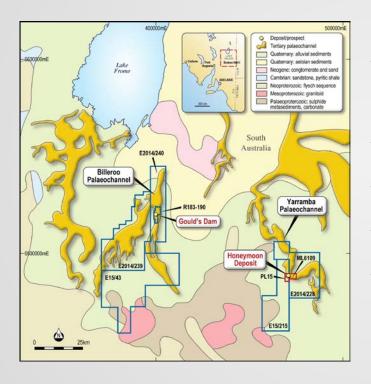
Classification	Million Tonnes	U₃O ₈ ppm	Contained U ₃ O ₈ (Mkg)	Contained U₃O ₈ (Mlb)
Measured	1.7	1720	2.95	6.5
Indicated	5.9	810	4.80	10.6
Inferred	32.5	569	18.5	40.7
Total	40.1	654	26.24	57.8

Note: Figures have been rounded. Quoted resources have been adjusted to exclude previous production of approximately 335t of U₃O₈.



HONEYMOON

URANIUM PROJECT



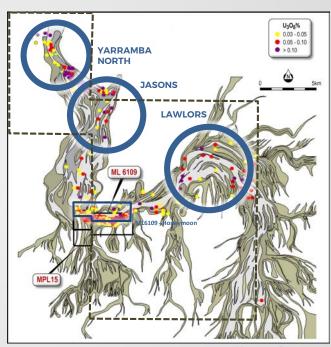
- Located 75Km NW of Broken Hill, in the Curnamona Region of South Australia
- Resources amenable to ISL recovery
- Mineralisation occurs at 90-120m depth
- Over 2,500 drill holes in data base
- Multiple styles of uranium mineralisation identified



EASTERN TENEMENTS

EXPLORATION POTENTIAL

- Eastern Tenement Resource of 32.8Mlb U₃O₈
- Additional regional exploration target of 18-47Mlb of contained U₃O₈ on Eastern Tenements.
- 30 km of potentially mineralised strike
- Drill ready targets historical drilling shows numerous > 1,000ppm U_3O_8
- Three priority regions Yarramba, Jasons and Lawlors
 - Early potential for resource definition
- Advanced targeting model utilising numerical prospect scoring system developed

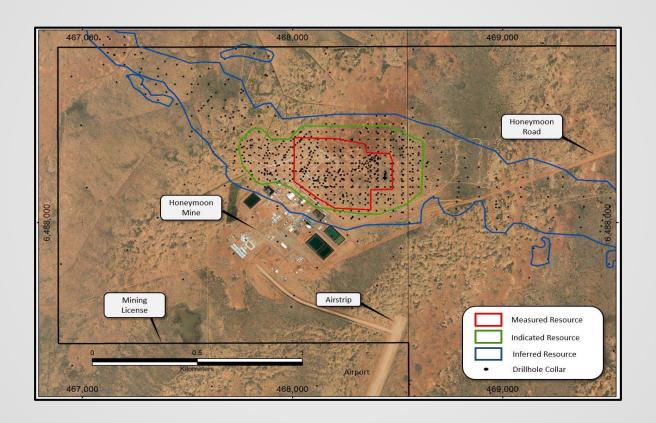


Historical & Recent Drilling Intercepts



RESOURCE LOCATION

SIGNIFICANT EXPLORATION POTENTIAL





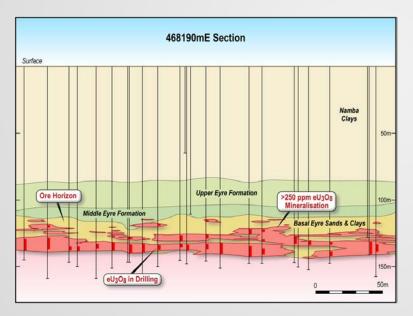
SECTIONS

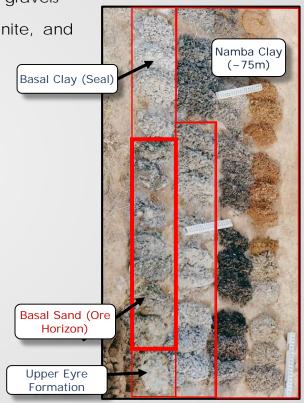
TYPICAL HONEYMOON SECTION

Mineralisation within permeable Basal Eyre sands and gravels

Uranium mineralogy of acid-soluble uraninite, coffinite, and uranium phosphates

Mineralisation 115-125m below surface

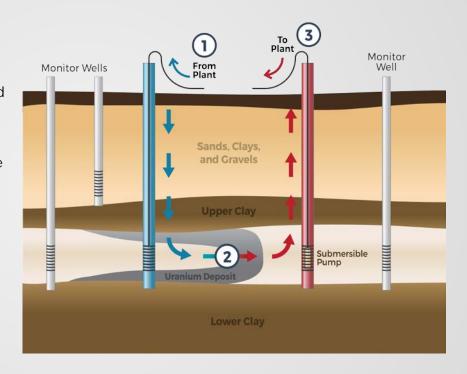




ISL PROCESS

Process Flow

- An acidic leach solution containing an oxidant is pumped through injection wells into uranium-bearing solution.
- The solution migrates through the strata sands oxidising and mobilising uranium as a soluble complex.
- The solution, now referred to as pregnant leach solution (PLS) is intercepted by production wells, located between the injection wells, and pumped to the surface.





INFRASTRUCTURE

Production Bore



Processing Facility



Water treatment plant



Control Room



Settling Ponds



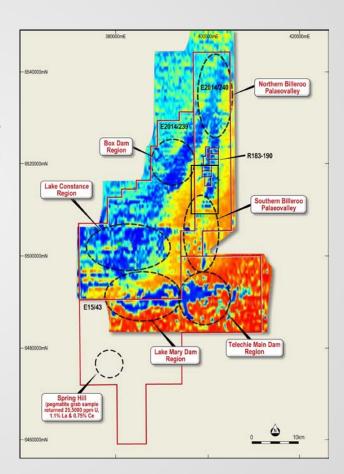
Camp



WESTERN TENEMENTS

EXPLORATION POTENTIAL

- Western Tenement Resource of 25Mlb
- 54 km potentially mineralised strike
- Exploration target of 21-53Mt at between 480 and 1500ppm U₃O₈ for between 24 and 53MLB of U₃O₈. The Exploration Target is conceptual in nature as there has been insufficient exploration to define a Mineral Resource. It is uncertain if further exploration will result in the determination of a Mineral Resource.
- Goulds Dam / Billeroo system underrated:
 - 12 km strike length
 - Under drilled
 - Highly prospective ground
 - Resource upgrade expected from further drilling
- EL5043 has pegmatite hosted mineralisation up to 3.5% U₃O₈ (grab sample)
- Broader Exploration licence under application
 - Potential for new paleochannels
 - Along trend of mineralised fluids
 - Massively under explored
 - Grades of up to 1% eU₃O₈ reported from historical drilling (1960 – EAR19)



MILESTONES



FEASIBILITY PLANNING SCHEDULE

Project Activities	Q ₃ 2016	Q ₄ 2016	End 2017
Option Study			
Initial Exploration			
Resource Upgrade - Jasons			
Expansion Feasibility			



COMPETITIVE ADVANTAGE

BOSS RESOURCES



TEAM

Executives with project management, development, financing, and operation experience



ASSETS

Honeymoon Uranium asset in South Australia Underestimated uranium province Significant exploration target



APPROVAL

All approvals are in place



LICENCED

Only developed project in Australia which is fully licensed and able to be brought into production





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