







A global uranium supplier positioned for growth November 2016

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Please note that in accordance with Clause 17 of the JORC (2012) Code, the potential quantity and grade of the "Exploration Target" in this presentation must be considered conceptual in nature as there has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource.

Please note that Production Targets within this presentation are based on a proportion of inferred resources. There is a low level of geological confidence associated with inferred mineral resources and there is no certainty that further exploration work will result in the determination of indicated mineral resource or that the production target itself will be realised.

#### Competent Person Statement

The information in this presentation that relates to Exploration Results, Mineral Resources or Ore Reserves at Peninsula's Lance Projects is based on information compiled by Mr. Jim Guilinger. Mr. Guilinger is a Member of a Recognised Overseas Professional Organisation included in a list promulgated by the ASX (Member of Mining and Metallurgy Society of America and SME Registered Member of the Society of Mining, Metallurgy and Exploration Inc). Mr. Guilinger is Principal of independent consultants World Industrial Minerals. Mr. Guilinger has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Guilinger consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

The information in this presentation that relates to Exploration Results, Mineral Resources or Ore Reserves at Peninsula's Karoo projects is based on information compiled by Mr. George van der Walt. Mr van der Walt is a Member of the Australian Institute of Mining and Metallurgy (AusIMM) and the South African Council for Natural Scientific Professions (SACNASP)). Mr van der Walt is a Geological Consultant and Director of Geoconsult International (Pty) Ltd. Mr van der Walt has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking as Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. van der Walt consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

### **Overview**



- ✓ Uranium production commenced at its Lance Projects in 1Q 2016
  - Stage 1 ramp-up successfully underway
  - Existing plant and infrastructure allows low risk, clear path to production expansion
  - 8.1mlbs U<sub>3</sub>O<sub>8</sub> sold into forward sales contracts at US\$54/lb; Insulates earnings against soft spot market
- ✓ Uranium market poised for price recovery
  - Supply cuts, major supply shock and/or structural change
  - 448 reactors world-wide; New demand from 58 new reactors in construction
  - · Return to long term contracting
- ✓ New production strategy (stage 1.5) underway to immediately ramp-up production, deliver sustainable positive cashflow, reduced opex with <u>low capex requirement</u>
- ✓ Peninsula: Low risk leverage to the uranium price
  - Substantial long term offtake agreements (5 years of stage1 production at average sale price of US\$54/lb)
  - Strong financial support from first-tier shareholder base RCF, Pala, BlackRock, Global-X, JP Morgan, AREVA
  - Uranium price recovery allows fast-track expansion with stage 2 & 3 to reach target production of 2.3 million lbs/yr
  - Karoo offers a second production centre with diversity of supply & jurisdiction and additional supply

# **Corporate Overview**



Capital Structure	
Shares on issue	178m
Share price (24/11/16)	\$0.58
Market capitalisation	A\$103m
Enterprise Value	A\$127m
Cash and Security Deposits (31/10/16)	A\$7m

Shareholding*	Holding (%)
Resource Capital Fund VI	21.4%
Pala Investments	11.9%
BlackRock Funds	9.1%
Global-X	4.7%
J P Morgan	3.4%
AREVA	3.2%
Acorn Capital	2.3%
Top 20 Shareholders	63.1%









### 1 year share price & volume history



### **Research Coverage**

BMO Capital Markets	Alex Pearce
Numis	Justin Chan
RFC Ambrian	Jim Taylor
Dundee Capital Markets	Dave Talbot
Patersons	Simon Tonkin
Rodman & Renshaw	Heiko Ihle
Roth Capital Partners	Joe Reagor

## **Strategic Overview**



# To be a uranium producer from multiple sources in established jurisdictions with low cost, long life mines delivering directly to utilities

# Production at Lance ISR project, Wyoming

- Construction completed on-schedule and on-budget
- Production commenced in Q1 2016
- Building to 2.3m lbs U<sub>3</sub>O<sub>8</sub> per annum as contracts allow
- Acquire satellite deposit (plant capacity licensed to produce 3m lbs pa)

# Expand relationships with US and European utilities

- Utilities are seeking security of supply through diversity—those with multiple sources of low cost, long life uranium located in secure mining locations are preferred suppliers
- Peninsula has spent the last 5 years marketing directly to the large US and European utilities to:
  - Build knowledge of our plans and projects and establish trust and confidence in our management
  - Establish Peninsula as a preferred supplier: long life, low cost mines in USA, South Africa and Australia/Canada (planned)
  - · Successfully entered into long term contracts

# Advance Karoo Projects as secondary uranium source

- Complete DFS and reserve drilling at Karoo Projects, South Africa and build a mine by 2019.
- Investment term sheet signed 8 May 2015; DD completed during H2 2015; earn-in percentage and JOA ongoing;
- Complete Reserve drilling; complete DFS and build 3-4m lbs U<sub>3</sub>O<sub>8</sub> per annum

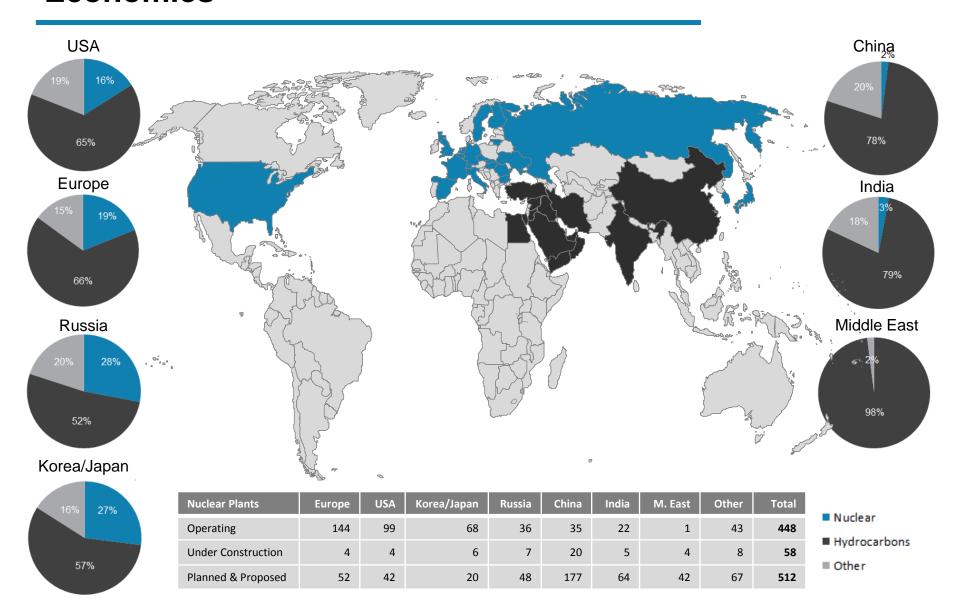
### Acquire one of several Australian or Canadian uranium projects

- Acquire one of several projects identified in Australia or Canada develop a 3-4m lbs additional U<sub>3</sub>O<sub>8</sub> per annum
- The goal is to build an 8-10m lbs U<sub>3</sub>O<sub>8</sub> per annum producer from diverse sources by early 2020's

Please note that Production Targets within this presentation are based on a proportion of inferred resources. There is a low level of geological confidence associated with inferred mineral resources and there is no certainty that further exploration work will result in the determination of indicated mineral resource or that the production target itself will be realised. The estimated mineral resources underpinning the production targets relating to the Lance Projects have been prepared by Jim Guilinger and for the Karoo Projects by Mr George van Der Walt, Competent Persons as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The basis of the Production Targets within this presentation are included in a presentation to ASX released on 27th March 2014 "Company Presentation – Mines and Money Hong Kong" for the Lance Projects and a presentation released on 5 February 2014 "Company Presentation – Mining Indaba Conference 2014" for the Karoo Projects." Peninsula confirms that it is not aware of any new information or data that materially affects the information included in this announcement and that all material assumptions and technical parameters underpinning the production targets continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially 5 modified from the original market announcement

# Power Supply in Developed and Developing Economies



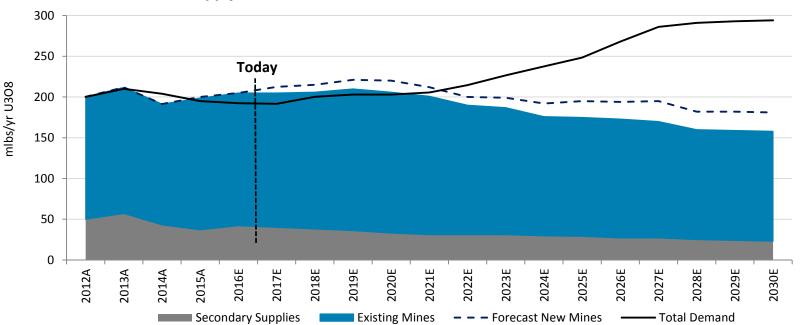


# **Uranium Supply and Demand**



- Typically uranium is purchased via private treaty agreements. These are effectively take or pay, 5-11 years duration and at a premium to current market
- Historically term contract volumes far outweigh spot contract volumes but not from Q2 2012 2017
- From mid-2012 onwards: increased competition in electricity markets and shrinking margins has seen utilities drastically reduce contracting and draw-down on inventories;
- secondary supplies have increased due to reduced enrichment demand
- Producer willingness to enter term contracts has diminished due low prices and has to added spot sales
- As discretionary inventories are draw down, term volumes will increase rapidly (2017-18 and beyond)

### **World uranium Supply and Demand Forecasts**

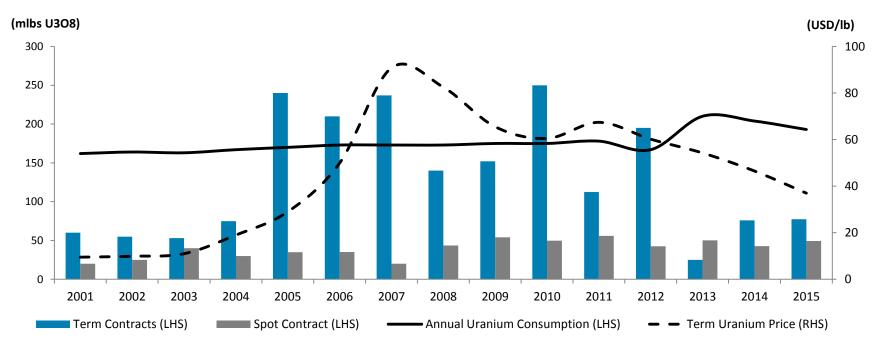


Source: Trade Tech

### **Historic Uranium Sales**



### **Term and Spot Contract Volumes**

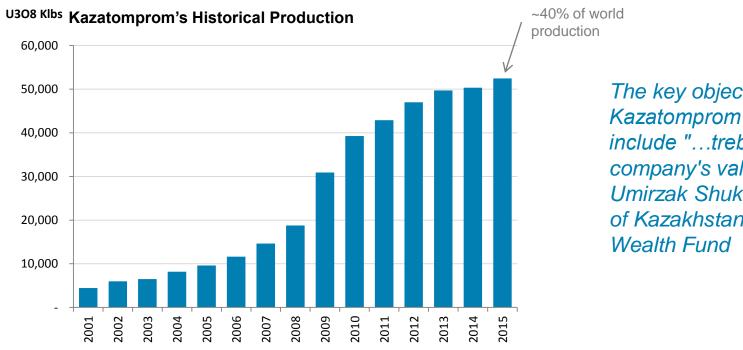


Source: UxC, Trade Tech, US Energy Information Administration; EurAtom Supply Agency

- Current uranium price is a result of:
  - Current Kazakh short term selling legislation
  - Excess utility inventory
  - Enrichment underfeeding and reprocessing of low grade tails
  - Reactor shutdown (Fukushima)
  - Spot price based offtake agreements with traders

## **Kazatomprom to Balance the Market**





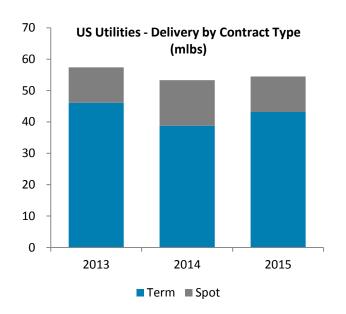
The key objectives of Kazatomprom's strategy include "...trebling the company's value..." - Mr. Umirzak Shukeyev, Chairman of Kazakhstan's Sovereign Wealth Fund

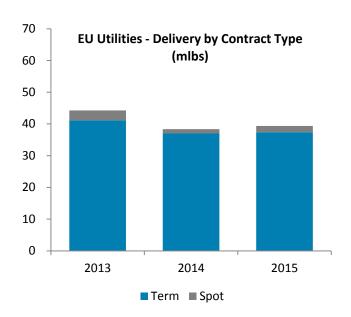
- To effect its objective of treble the company's value, Kazatomprom is considering:
  - Moving away from 100% spot sales and towards term contracting through its Switzerland based sales and marketing company. The sales and marketing company is 100% owned by the Kazakh Sovereign Wealth Fund
  - 2. Kazatomprom has also stated that it aims to supply up to one third of the global fuel fabrication market by 2030
    - Foreign participation in the Kazakh uranium included agreement to fuel cycle technology transfer
    - 2007 acquired 10% ownership of Toshiba- Westinghouse the worlds biggest fuel fabricator
  - 3. Implementing a model similar to Uranium Participation Corp, whereby it will purchase and hold uranium to balance demand and supply underpinned by the Kazakh Sovereign Wealth Fund (US\$64b)

### **Price Recovery**



- Uranium price recovery will be driven by:
  - Increased Term Contracting due to Kazakh changes in sales & marketing strategy (SWF involvement)
     <a href="http://www.kazpravda.kz/en/interviews/view/transformation-of-kazatomprom/">http://www.kazpravda.kz/en/interviews/view/transformation-of-kazatomprom/</a>
  - Increased enrichment activity which will lead to a normalisation of under feeding & tails reprocessing
  - Decreased producer forced cash-flow sales
  - Supply cuts, major supply shock or structural change
- When uranium prices move they will move sharply
- Uranium equities rise dramatically on commodity price recovery



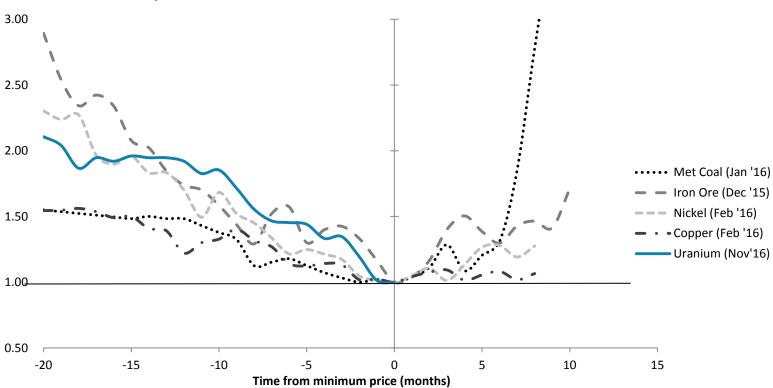


Whilst term contracting volume has reduced significantly between mid-2012 and late-2016, the majority of deliveries
continue to be under term contracts

# Significant Price Uplift when Term **Contracting Returns**



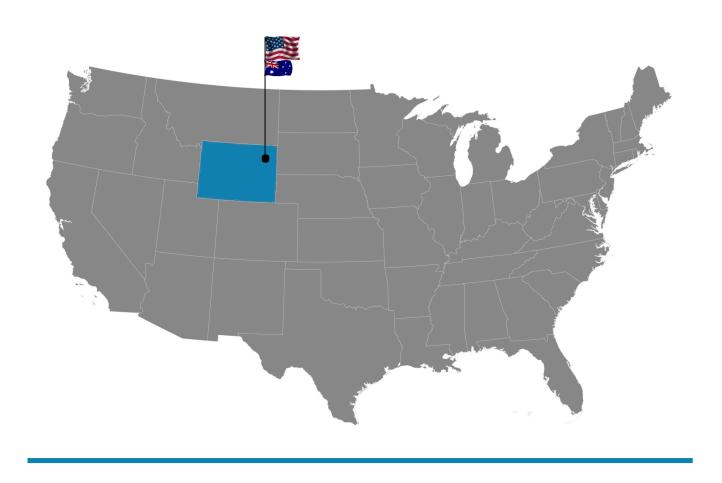
### **Rebased Commodity Price Forecasts**



- Met coal, iron ore, nickel and copper bottomed in late 2015 / early 2016.
- A strong uplift is expected for uranium when market balance turns
- Commodity prices were rebased to 1 at the point in time of the minimum price in the last 24 months for comparability

11 Source: UxC, Macquarie



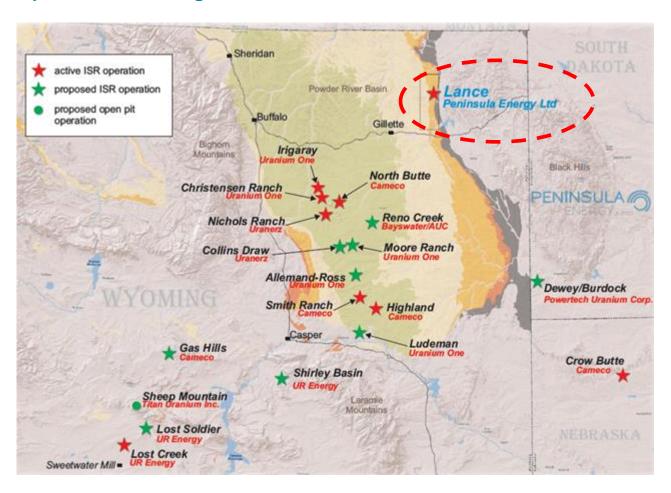


# Lance ISR Project, Wyoming USA

# **Uranium Mining in Wyoming**



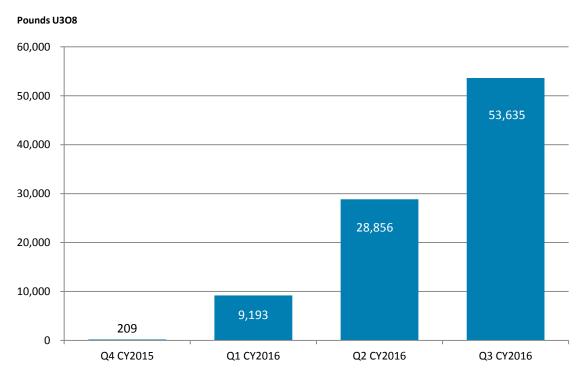
# Wyoming is very supportive of uranium extraction with multiple ISR operations in the region



# **Lance Operational Performance**



### **Quarterly Production**



- Consistent flow rates have confirmed permeability
- Header house units 1, 2 and 3 average flow rate over target rate of 20GPM per extraction well
- Focusing on optimising existing wellfields and bringing Header Houses 6 and 7 online.

### **Lance Operational Performance**



#### Wellfields

- ✓ Production for July Sept. 2016: 53,635 lbs U3O8, Q3 up 88% on Q2
- ✓ Ore body permeability is good, average flow rate for header house 1, 2 & 3 better than 20 GPM
- ✓ Ore body leachability is demonstrated
- ✓ Header houses 3, 4 & 5 online and ramping up
- Header house construction completed and well installation complete on header house 6 and advanced on 7

### Central Processing Plant

- ✓ Operating to design specification
- ✓ Capture rate of uranium on resin in ion exchange columns is exceeding expectations.
- ✓ Average U3O8 grade in fluid leaving the CPP is less than 2.00 mg/L

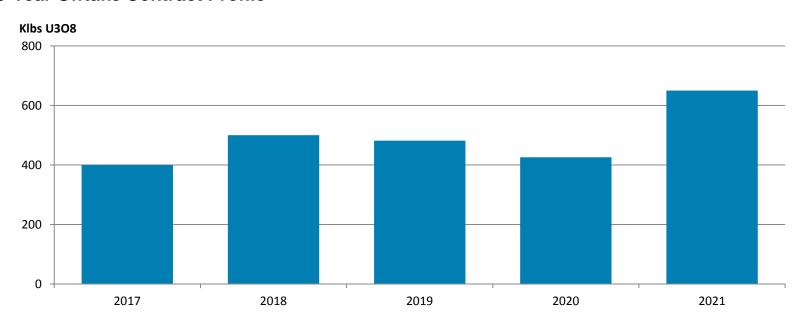
### Deep Disposal Well

- ✓ Flow rates ranged between 80 and 120gpm a phenomenal rate and orders of magnitude better than all other operators in Wyoming.
- Each DDW costs around US\$ 3 million potential at Lance to defer timing for additional DDWs and reduce the total number needed over life of mine

### **Substantial Offtake Contracts**



### 5-Year Offtake Contract Profile



### · Sales and deliveries

- √ 8.1m lbs U<sub>3</sub>O<sub>8</sub> under contract; WAP \$55/lb; Revenue US\$445,000,000
- ✓ Delivered a total 54,000 lbs to converter in May and September 2016
- ✓ Delivered 105,000 lbs to utilities in 1H'16
- Deliveries of 112,000 lbs to utilities in 2H'16
- Deliveries of 400,000 lbs in 2017 and 2.5m lbs from 2017-2021
- 5.2m lbs U3O8 under contract beyond 2021

# U<sub>3</sub>O<sub>8</sub> Recovery Process



### Option 1 - Stage 1

### In-House





3,750 GPM flowrate

### **Toll Milling**







Production capacity of 600,000 to 700,000 lbs U3O8 p.a.

• 400,000 to 650,000 lbs p.a. contracted for delivery; low price for uncontracted production

### Option 2 - Stage 2





7,500 GPM flowrate

### **All In-House**







Production capacity of 1,000,000 to 1,200,000 lbs U3O8 p.a.

- US\$48m CAPEX and working capital required; low uranium price environment for uncontracted production
- Requires early development activity on MU3 and MU4 in Ross and completion of Kendrick amendment by early 2018

# **Interim Operating Strategy**



### Option 3 – Stage 1.5

### In-House





2017 average operational flow rate of c. 2,000 GPM

### **Toll Milling**







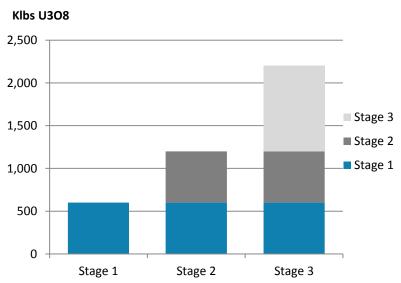
Production rate of c. 300,000-500,000 lbs U3O8

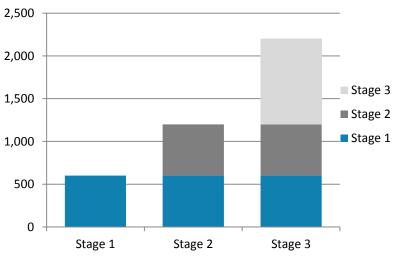
- 1. Interim operating strategy until uranium prices start to improve
- 2. 2017 production profile tailored around existing Term contract deliveries of 400,000 lbs at around \$55/lb
- 3. No sales into the Spot market maximising the value of extracted resource
- 4. Investing in the construction of header houses 8 to 10 allows flow rates to be reduced lowering operating costs and delivering higher average uranium head grade
- 5. Lower operating costs combined with high value Term contracts will see the Company move to sustainable cash generation in H1 CY2017

### Planned Scalable Production



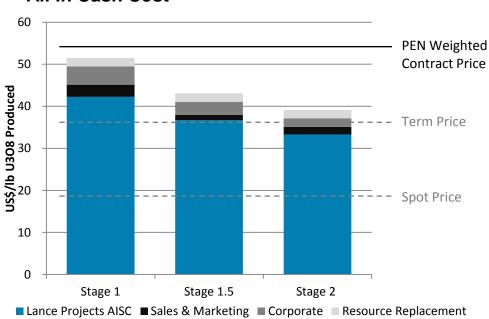
### **Production Profile**





- Focus on aligning production with offtake contracts
- Significant optionality in Stage Two and Three:
  - Leverage to rising uranium market retained whilst offtake contracts protect Peninsula from the downside
  - Funding should be available for Stage Two for when prices recover
  - Existing plant, infrastructure and permits will allow Peninsula to bring new production online within 12months





- Toll treatment minimises up-front capital and commissioning risk
- Lance Projects All-in Sustaining Cash Cost reduction optionality

# U<sub>3</sub>O<sub>8</sub> Interim Operating Strategy



### **Pros**

- ✓ Reduces OPEX costs
- ✓ Generates sustainable positive cash flow
- ✓ Slows down rate of ongoing wellfield development
- ✓ Preserve mineral resource for higher uranium price environment
- ✓ Ability to ramp-up production rate in a matter of months
- ✓ Ability to construct Stage 2 in 12 months and ramp-up in following year

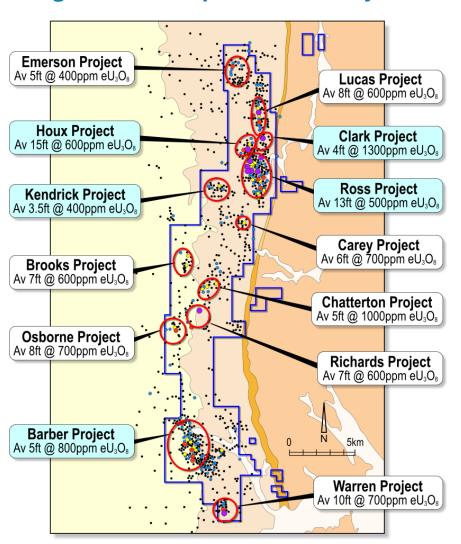
### Cons

- × Delays Stage 2 growth
- × Maintains dependency on toll milling

# **Lance – Exploration Target**

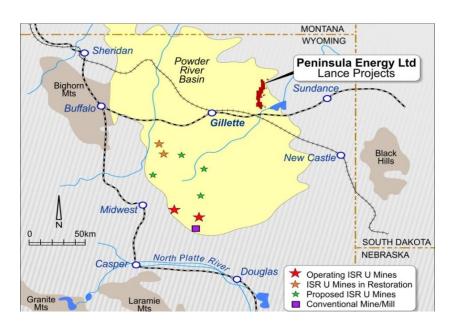


### Large Resource potential: 70+ years mine life



- Current JORC-2012 Compliant Resource 53.7m lbs U308
- 13 historic resources
- 22 roll fronts extend for a combined linear strike length of 194 miles (312km)
- Exploration Target 158-217m lbs U<sub>3</sub>O<sub>8</sub>

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# Peninsula Uranium Limited Sales and Marketing, London UK

# **Sales and Marketing Strategy**



### Peninsula Uranium Limited (UK)

- Peninsula has established Peninsula Uranium Limited (PUL), a dedicated uranium sales and marketing company
- Peninsula MD/CEO has a hands-on and direct management role within PUL
- PUL is responsible for arranging and administering all sales of uranium concentrate supplied by Peninsula

### Strategy

- Align Peninsula with the utilities requirements
- Progressively commit production to term contracts
- Optimise revenue & reduce pricing risk

Term Contract Status						
Date entered	Volume (U <sub>3</sub> O <sub>8</sub> )	Delivery				
February 2011	1.1 m lbs	2016-2020				
December 2014	1.1 m lbs	2016-2025				
February 2015	1.9 m lbs	2016-2024				
March 2016	4.0 m lbs	2020-2030				

Existing contract revenue is up to US\$445 million

Weighted average price for Term contracts between 2016 - 2022 is US\$54 per pound U<sub>3</sub>O<sub>8</sub>

### Requests for Product<sup>1</sup>:

- Four transactions for 4.5m lbs of U<sub>3</sub>O<sub>8</sub> for delivery were reported in September
- 2.6m lbs for delivery over a five-year period: non-US utility
- 5,000 tU for delivery over ten years: non-US utility to issue formal Request for Proposal
- US Utility for 10% of its requirements as enriched uranium product between 2019-2022

<sup>&</sup>lt;sup>1</sup> Reported by Trade Tech October 2016





# **Karoo Projects, South Africa**

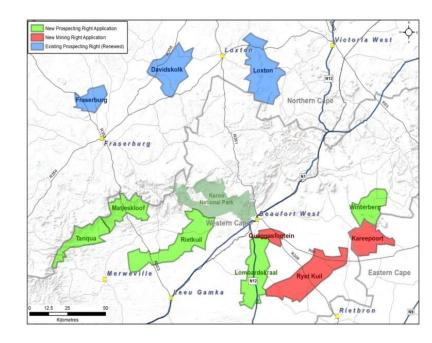
## **Karoo Projects, South Africa**



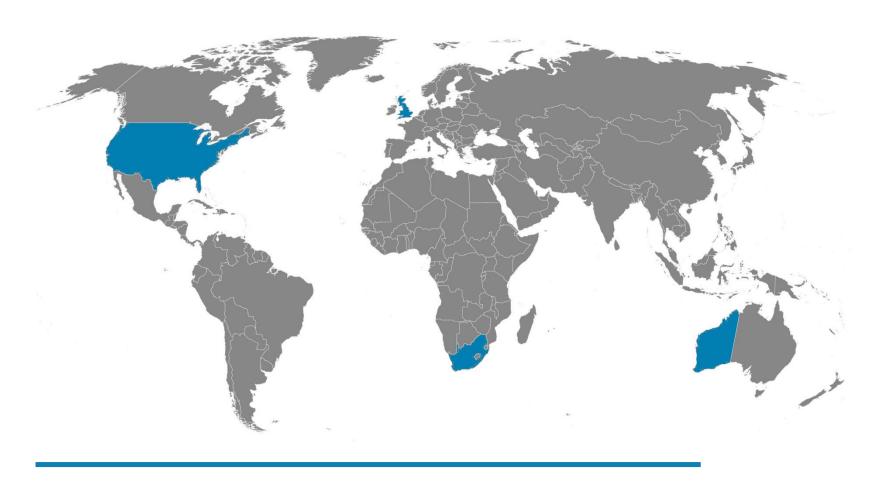
- Ownership: Peninsula 74% and BEE Partners 26%
- Located approximately 400-600km E-NE of Cape Town
- 4,650 km<sup>2</sup> over Permian sandstones
- 322 km² of freehold land covers majority of historic mineralisation
- Known uranium and molybdenum mineralised province
- Scoping Study completed on Karoo Eastern Sector Projects
  - Combined open cast and decline mining
  - Acid processing route is the most efficient and cost effective
  - JORC (2012) Compliant resource 56.9m lbs eU<sub>3</sub>O<sub>8</sub> at 1,108ppm
- Pre-Feasibility Study nearing completion:
  - Pre-Feasibility Study is underway and will include all engineering works associated with the mine, tailings and in-plant infrastructure (complete in 2016)
    - Current metallurgical test work will be incorporated into the flowsheet design
- DFS to be completed by 2018
- Targeting commencement of mining in 2020
- Significant resource expansion likely: exploration target size 250-350m lbs U<sub>3</sub>O<sub>8</sub> (126-133Mt at 900-1200ppm U<sub>3</sub>O<sub>8</sub>)

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The Karoo Scoping Study referred to in this presentation is based on low-level technical and economic assessments, and is insufficient to support estimation of Ore Reserves or to provide assurance of an economic development case at this stage, or to provide certainty that the conclusions of the Scoping Study will be realised.





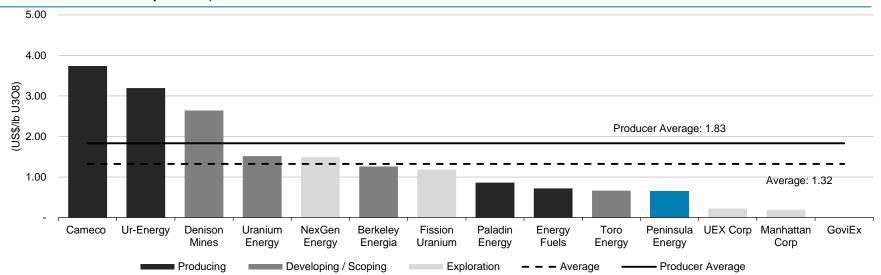


# **Peer Group Metrics & Conclusion**

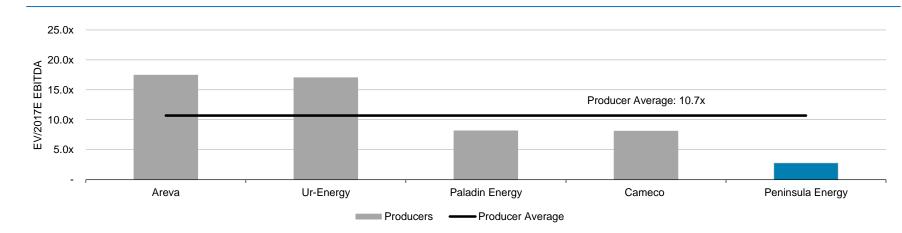
### **Relative Resource and Cash-Flow Metrics**



### EV/Total Resource (USD/Ib)



### Price/2017E EBITDA



# **Investment Highlights**



- ✓ Peninsula is ramping up uranium production at its Lance Projects
- ✓ The bottom line is insulated from spot price volatility with significant production volume in Term Contracts
- ✓ The Company has a low risk, clear path to production expansion
- ✓ Strong financial support from first-tier shareholder base
- ✓ Tightening supply and new demand expected to lift the whole uranium sector.
- ✓ Steady state production expected to deliver a re-valuation
- ✓ Karoo offers a second production centre with diversity of supply and jurisdiction
- Existing plant and infrastructure will allow Peninsula to ramp up quickly and participate in a rising market

Major sector re-rating expected with uranium supply contraction, increased new demand and utility contracting



### **REGISTERED OFFICE**

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### **FURTHER INFORMATION**

**Gus Simpson** Managing Director +61 8 9380 9920



# **Contact Details**





# **Appendices**

# **Appendix 1 - Lance Exploration Target Additional Disclosure**



### **Exploration Target**

The Lance Projects cover a significant proportion of the Powder River Basin Basin Cretaceous sandstones of Wyoming, which are believed to represent an Exploration Target of between 158 and 217mlbs U<sub>3</sub>O<sub>8</sub> which includes 54mlbs of existing JORC (2012) Code compliant resource.

### Lance Projects Exploration Target (including the existing JORC (2012) Code Compliant Resource)

Exploration Target	Ton (mill		Gra (ppm e		eU <sub>3</sub> (ml	•
Range	From	То	From	То	From	То
Total	169	196	426	530	158	217

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#### **Basis of Exploration Target**

Exploration Target is based on a combination of Exploration Results and on proposed exploration programs.

### **Exploration Results**

Approximately 7,500 drillholes, of which over 2,500 have been drilled and PFN logged since 2009. The data from these holes has been used to determine a JORC (2012) Code compliant resource and to extrapolate between areas of limited drilling but still within the mineralised trends.

#### **Proposed Exploration Programs**

The Company has minerals rights and surface access rights to 122.2 square kilometres and 107.8 square kilometres respectively. This package covers the most prospective mineralised redox /roll front trends that have a cumulative strike length of over 300km. The Company intends to continue exploration over this ground with drilling in order to validate the exploration target and convert to resources.

# **Appendix 1 - Lance Exploration Target Additional Disclosure**



### **Basis of Grade and Tonnage Range Determination**

With a database of approximately 7,500 drillholes together with several decades of geological research the level of exploration activity on which the Exploration Target is based, is considered to be high.

The known Lance resources are located in the upper Lance Formation and in the lower Fox Hills horizons in which roll fronts have been identified over a cumulative length of over 300kms. These horizons have only been partially explored and towards the south (Barber area) the lower unit of the Fox Hills has not been systematically tested. Along these channels JORC-compliant resources have been estimated in localised areas in which reliable drilling data is available. The zones between the JORC (2012) Code compliant resource areas form the Exploration Target because of the following:

- Continuity of the prospective sandstone established by geological mapping and regional drilling
- · Historic estimates of mineralisation based on drilling which has not yet been validated by Peninsula

#### The Exploration Target is based on a combination of:

- A tonnage calculation that incorporates the total cumulative prospective strike length of the identified redox fronts multiplied by the average width, thicknesses as determined in the resource estimate,
- The grade range represents the lowest resource area grades and highest resource area grades

### Summary of the Relevant Exploration Data Available and the Nature of the Results

For a comprehensive description of drilling information readers are referred to JORC Table 1 at the end of this presentation.

### Proposed Exploration Activities Designed To Test Validity of the Exploration Target

Over the life of mine ongoing exploration drilling is proposed to expand the JORC (2012) Code compliant resource within the Exploration Target areas. This initial program will be focussed on the Kendrick area. Exploration activities will mostly comprise geophysical logging of additional drillholes.

#### **Lance Projects Competent Person Statement**

The information in this presentation that relates to Exploration Targets, Exploration Results and Exploration Potential at the Lance Projects is based on information compiled by Mr. Jim Guilinger. Mr. Guilinger is a Member of a Recognised Overseas Professional Organisation included in a list promulgated by the ASX (Member of Mining and Metallurgy Society of America and SME Registered Member of the Society of Mining, Metallurgy and Exploration Inc). Mr. Guilinger is Principal of independent consultants World Industrial Minerals. Mr. Guilinger has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Guilinger consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

# **Appendix 2 - Karoo Exploration Target Additional Disclosure**



### **Basis of the Exploration Target**

The Exploration Target is based on a combination of Exploration Results and proposed exploration programs.

Please note that in accordance with Clause 17 of the JORC (2012) Code, the potential quantity and grade of the "Exploration Target" in this presentation must be considered conceptual in nature as there has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource.

### **Exploration Results**

The database currently contains 9,343 historic holes, of which 7,230 have been used to determine the JORC (2012) Code compliant Mineral Resource and subsequent update and to extrapolate between areas of limited drilling still within the mineralised trends. Many of the remaining collar positions are for historic holes that are not within the current resource areas or are inaccessible (filled in over time). For a comprehensive description of drilling information readers are referred to the JORC Table 1 declaration included in the announcement released to ASX on 11 March 2014 titled "13% Resource Expansion and Upgrade at Karoo Projects".

#### **Proposed Exploration Programs**

Peninsula has prospecting rights to 7,550 square kilometres of ground. This package covers the most prospective mineralised trend that have a cumulative strike length of 23km. Peninsula intends to continue exploration over this ground using airborne radiometric data, geological mapping and prospecting together with follow up drilling with the intention of locating additional material for future mining and processing.

### **Basis of Grade and Tonnage Range Determination**

With a database of 9,343 drill holes together with several thousand historic holes not yet located and entered into the database, and several decades of geological research and surface exploration, the level of exploration knowledge on which the Exploration Target is based is considered to be high.

The current Karoo resources are located on two well-defined sedimentary channels that each extends for at least 100 kms along strike. These channels have, according to historic records, been tested both recently and historically by in excess of 10,000 exploration drill holes representing 1.6 million metres of drilling. Along these channels JORC (2012) Code compliant resources have been estimated in localised areas in which reliable drilling data is available. The zones between the JORC-compliant resources areas form the Exploration Target because of the following:

- Continuity of the prospective sandstone established by geological mapping and regional drilling
- · Historic estimates of mineralisation based on drilling which has not yet been validated by Peninsula

The current JORC(2012) Code compliant resource of the Ryst Kuil channel alone, which represents the most completely drilled portion of the resources, comprises 18.5mt at 1,105ppm eU3O8.

# **Appendix 2 - Karoo Exploration Target Additional Disclosure**



This resource tonnage is distributed over a cumulative strike length of 23km representing approximately 0.80 million tonnes/km. The Exploration Target is based on a combination of:

- the total cumulative prospective strike length of the undrilled sections of the channel multiplied by the demonstrated tonnage/km, combined with,
- · the areas of known mineralisation for which historic estimates exists but are not included in the JORC-compliant resource
- · the grade range represents the lowest resource area grades and highest resource area grades

### Summary of the Relevant Exploration Data Available and the Nature of the Results

For a comprehensive description of drilling information readers are referred to JORC Table 1 included in announcement to the ASX on 11th March 2014: 13% Resource Expansion and Upgrade at Karoo Projects. Peninsula confirms that it is not aware of any new information or data that materially affects the information included in this presentation and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.

### **Proposed Exploration Activities Designed To Test Validity of the Exploration Target**

Over the next 3-5 years ongoing exploration drilling is proposed to expand the JORC (2012) Code compliant resource within the Exploration Target areas. This initial 3-5 years program will be focussed on the Eastern Sector RystKuil channel. Exploration activities will mostly comprise geophysical logging and geochemical sampling of additional drillholes, ground-based prospecting and geological mapping.

Testing of the Western Sector Exploration Target, utilising the same exploration techniques, areas will commence during following 5-10 year time frame.

#### **Karoo Projects Competent Person Statement**

The information in this presentation that relates to Exploration Targets, Exploration Results and Exploration Potential at Peninsula's Karoo projects is based on information compiled by Mr. George van der Walt. Mr. van der Walt is a Member of the Australian Institute of Mining and Metallurgy and is a member of a Recognised Overseas Professional Organisation included in a list promulgated by the ASX (The South African Council of Natural Scientific Professions, Geological Society of South Africa). Mr van der Walt is a Director of Geoconsult International. Mr van der Walt has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking as Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. van der Walt consents to the inclusion in the presentation of the matters based on their information in the form and context in which it appears.

# **Appendix 3 - Lance JORC Resource**



Classification	Tonnes	Grade (ppm U3O8)	eU3O8(lbs)	Mineability factor	eU3O8 (lbs)	Recovery factor	Recovered U3O8 (lbs) 50.4%
Measured	4,142,950	495	4,520,159	0.8	3,616,128	0.8	2,892,902
Indicated	11,532,135	497	12,640,951	0.8	10,112,761	0.8	8,090,209
Measured & Indicated	15,675,085	497	17,161,110	0.8	13,728,888		10,983,111
Inferred	35,478,033	467	36,513,114	0.6	21,907,868	0.8	17,526,295
Total	51,153,119	476	53,674,224		35,636,757		28,509,405

### ISR Reserves are determined after well field development drilling

1JORC Table 1 included in an announcement to the ASX released on 27th March 2014:"Company Presentation – Mines and Money Hong Kong". Peninsula confirms that it is not aware of any new information or data that materially affects the information included in this announcement and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

# **Appendix 4 - Karoo JORC Resource**



### **JORC Compliant Resource March 2014**

Classification	Cut-off: eU3O8(ppm)	Tonnes (million)	eU3O8 (ppm)	eU3O8 (million lbs)
Indicated	600	8.0	1,242	21.9
Inferred	600	15.3	1,038	35
Total	600	23.3	1,108	56.9

Classification	Sector	Cut-Off: eU3O8 (ppm)	Tonnes (million)	eU3O8 (ppm)	eU3O8 (million lbs)
Indicated	Eastern	600	7.1	1,206	18.7
	Western	600	0.9	1,657	3.2
Inferred	Eastern	600	11.8	1,046	27.2
	Western	600	3.5	1,019	7.8
Total		600	23.3	1,108	56.9

### Large resource potential: 100+ year mine life

Note: Totals may not sum exactly due to rounding

<sup>2</sup>JORC Table 1 included in announcement to the ASX released on 11<sup>th</sup> March 2014:"13% Resource Expansion and Upgrade at Karoo Projects". Peninsula confirms that it is not aware of any new information or data that materially affects the information included in this presentation and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.

## **Appendix 5 - Board of Directors**



**John Harrison, Non-Executive Chairman:** Mr Harrison brings to Peninsula a wealth of experience and resource sector knowledge acquired over a 45 year career including 20 years of investment banking in London. During this time Mr Harrison has developed an extensive international contact base advising companies across a range of commodities, (including uranium) and raising more than £500m in equity capital in the process.

John (Gus) Simpson, Managing Director/Chief Executive Officer: Strong strategic leader, extensive background in resources, corporate finance and management; 25 years' experience in USA, Asia, Africa and Australia. Mr Simpson has been Managing Director of Peninsula since 2007 and has lead the Company through the exploration, permitting, feasibility, financing, construction and production stages of development.

Harrison (Hink) Barker, Non-Executive Director: Harrison (Hink) Barker retired June 1, 2015 from the Generation segment of Dominion Resources with over 40 years of fossil and nuclear fuel commercial and technical responsibilities. Since 1992, Mr Barker had been the manager responsible for Dominion's procurement of nuclear fuel and the related processing steps of conversion from U3O8 to UF6, enrichment of UF6, and fabrication of nuclear fuel assemblies.

Warwick Grigor, Non-Executive Director: Mr Grigor is a highly respected and experienced mining analyst, with an intimate knowledge of all market related aspects of the mining industry. He is a graduate of the Australian National University having completed degrees in law and economics. He is the previous Executive Chairman of Canaccord Genuity Australia and is now the Executive Chairman of Far East Capital, an investment and advisory firm focussed on the resources sector.

Mark Wheatley, Non-Executive Director: Mr. Wheatley is an experienced resources company CEO, Non-Executive Director and Chairman with a career spanning more than 30 years in mining and related industries. Mr. Wheatley has 10 years' experience in the uranium industry and been involved in ISR project feasibility studies, start up, production, rehabilitation and closure. His uranium experience includes the roles of Chairman and CEO of Southern Cross Resources Inc., the operator of the Honeymoon ISR uranium project and Non-Executive Director of Uranium One Inc. and Uranium Resources Inc.

**Richard Lockwood, Non-Executive Director:** Mr Lockwood has over 50 years' experience in the funds management and mining investment sectors across the United Kingdom, Australia, and South Africa. He has extensive involvement with the uranium sector and was previously a Director of AlM-listed uranium company Kalahari Minerals. Mr Lockwood is a Director of London based Arlington Group Asset Management.

**Evgenij lorich, Non-Executive Director:** Mr lorich is currently Vice President, Investment Team at Pala Investments Limited (Pala) and has extensive experience in the natural resources sector across a broad range of commodities with a focus on M&A opportunities, operational, financial planning and corporate structuring. Prior to joining Pala in 2006, Mr lorich was a financial manager at Mechel where his responsibilities included all aspects of budgeting and financial modelling.

# **Appendix 6 - Management**



### **Extensive experience in mine development & uranium sales**

Gus Simpson
Managing Director/CEO

Strong strategic leader, 9 years working in all aspects of the uranium business, extensive background in resources, corporate finance and management; 25 years' experience in USA, Asia, Africa and Australia

Ralph Knode CEO North America Senior management geologist /engineer; 30 years' experience with Cameco and Uranium One in ISR mine development and operation in USA, Central Asia and Australia

David Coyne
Chief Financial Officer

CPA accountant and experienced mineral production CFO; 25 years' cross border experience in Australia, Asia and USA

Willie Bezuidenhout CEO South Africa 9 year's uranium experience in Africa and Australia; previously Vice President Business Development for Uranium One

Harrison Barker
Director Sales & Marketing

Over 40 years of fossil and nuclear fuel commercial and technical responsibilities. Between 1992-2015 he was the manager responsible for Dominion's procurement of nuclear fuel and related processing steps. He brings an extensive knowledge of power utility fuel needs and processes

Laurent Odeh VP Sales & Marketing 15 years commercial and business development experience in the mining sector, including responsibility for Rio Tinto uranium sales in Europe and South Africa

Mike Griffin
VP Permitting, Regulatory and
Environmental Compliance

Extensive experience in Health Physics, permitting and compliance with Cameco and Uranium One in North America, Central Asia and Australia

Mike Brost VP Geology North America Senior uranium geologist; 30+ years' experience in uranium roll front exploration and well field planning, design and operation with US subsidiary of Cameco

Jan Fajgl VP Production Mining engineer with over 25 years' experience in managing uranium field operations, mine engineering and hydrology in the United States, Czechoslovakia and Kazakhstan.

Ben Schiffer - WWC
Engineering
Lead Permitting Consultant

Over 30 years' operating experience in all facets of the Wyoming regulatory and permitting process (www.wwcengineering.com)

**Brian Pile - TREC**Project Manager-Design
Engineers & EPC contractors

Senior construction engineer with leading US engineering firm in design and construction management of ISR facilities in North America (www.treccorp.com)

# **Lance Plant Housing**





### **Lance Plant**











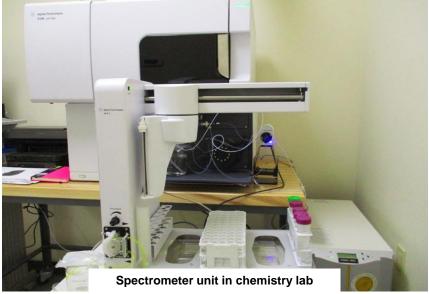
### **Lance Plant**











# **Well Field Development Drilling**





# **Well Field Development**









# **Ion Exchange Columns**





# **Loaded Resin Trailer**



