# crusader

### Precious Metals Summit Hong Kong – May 2014

Paul Stephen, Executive Director

ASX:CAS

www.crusaderresources.com





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#### **Competent Person Statement**

The information in this report that relates to Juruena Gold Project Exploration Results is based on information compiled or reviewed by Mr Robert Smakman who is a full time employee of the company and is a Fellow of the Australasian Institute of Mining and Metallurgy, and has sufficient experience that is relevant to the type of mineralisation and type of deposit under consideration to qualify 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 Smakman consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to:

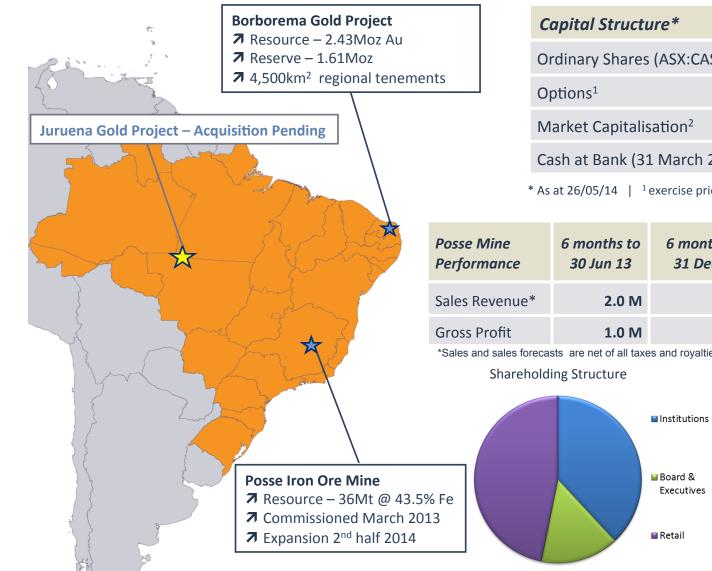
- a) Borborema Gold Project and Posse Iron Ore Project Exploration Results are based on information compiled or reviewed by Mr Robert Smakman who is a full time employee of the company;
- b) Borborema Gold Mineral Resources is based on information compiled by Mr Lauritz Barnes and Mr Brett Gossage and independent consultants to the company;
- Borborema gold Ore Reserves is based on information compiled by Mr Linton Kirk, independent consultant to the company;
- d) Posse Fe Mineral Resources is based on and accurately reflects, information compiled by Mr Bernardo Viana who is a full time employee of Coffey Mining Pty Ltd,

and who are all Members of the Australasian Institute of Mining and Metallurgy (Rob Smakman and Linton Kirk being Fellows), and who all have sufficient experience that is relevant to the type of mineralisation and type of deposit under consideration, and to the activity which they are undertaking to qualify as a Competent Person as defined in the 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Each of Mr Smakman, Mr Barnes, Mr Kirk, Mr Viana and Mr Gossage consent 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 prepared and disclosed under the JORC Code 2004. It has not been updated since to comply with JORC Code 2012 on the basis that the information has not materially changed since it was last reported.

### **Corporate Snapshot**

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Options <sup>1</sup> 14    Market Capitalisation <sup>2</sup> ~ \$3			Capital Structure*
Market Capitalisation <sup>2</sup>	5.6 M	126.6 N	Ordinary Shares (ASX:CAS)
	<b>.9 M</b>	14.9 N	Options <sup>1</sup>
Cash at Bank (31 March 2014) ~ \$2	38 M	~ \$38 N	Market Capitalisation <sup>2</sup>
	2.9 M	~ \$2.9 N	Cash at Bank (31 March 2014)

\* As at 26/05/14 | <sup>1</sup> exercise prices: \$0.34 to \$1.35 | <sup>2</sup> share price \$0.30

sse Mine rformance	6 months to 30 Jun 13	6 months to 31 Dec 13	3 months to 31 Mar 14	9 months to 31 Dec 14 (forecast)
les Revenue*	2.0 M	7.5 M	5.7 M	15.0 M
oss Profit	1.0 M	3.5 M	3.1 M	8.5 M

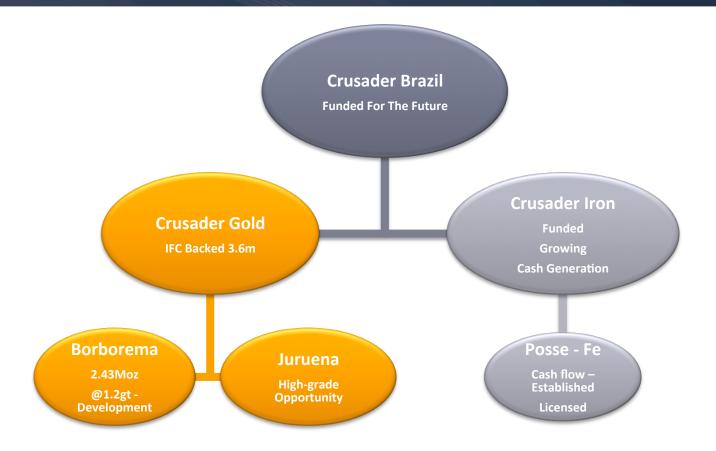
\*Sales and sales forecasts are net of all taxes and royalties

Top 90 Geographical Analysis



### Multiple Projects – Fully Funded

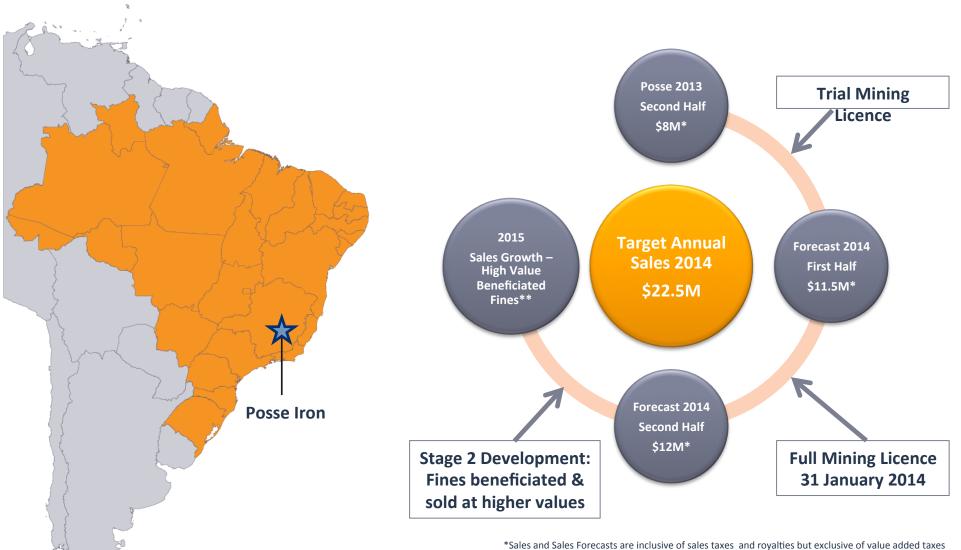




Iron C	Dre	Construction and Licensing	Trial Mining Development	Licensed Cashflow	Established	
Gol	d	Brownfields		IFC invests 3.6M	Gold Development	
		2012	2013	Now	2014	

### Posse Iron - 2014





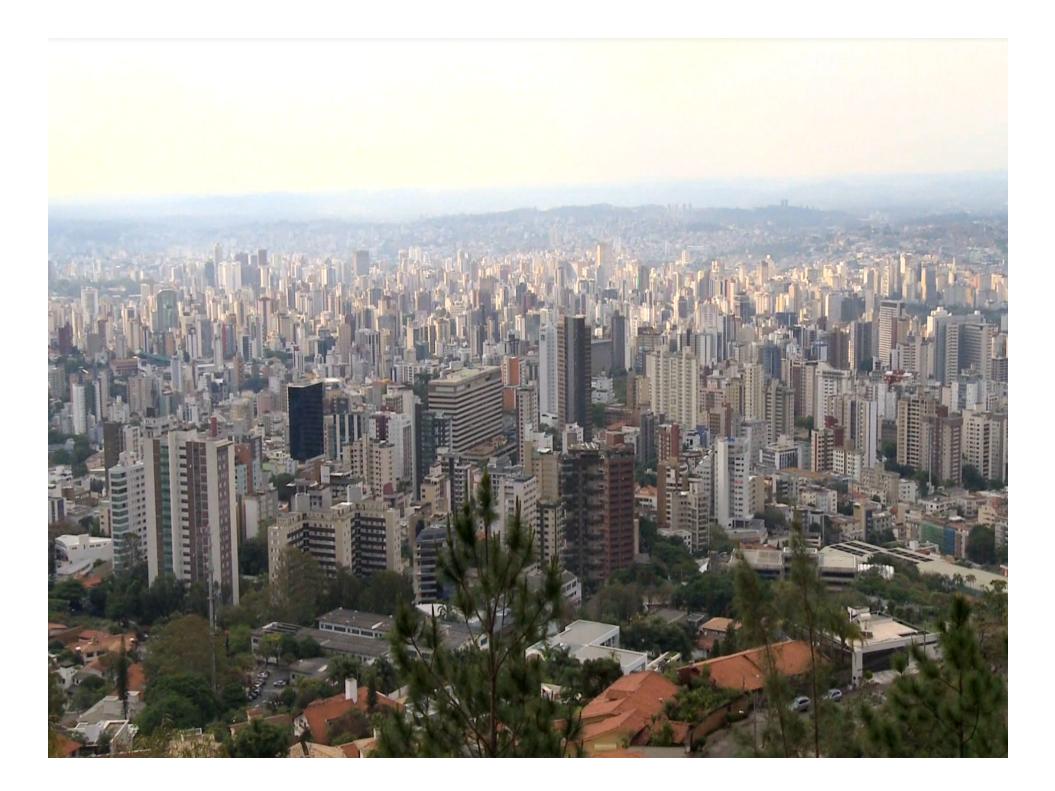
\*\*to be determined based on study which is currently in progress

# Posse Iron Cash Flow Positive

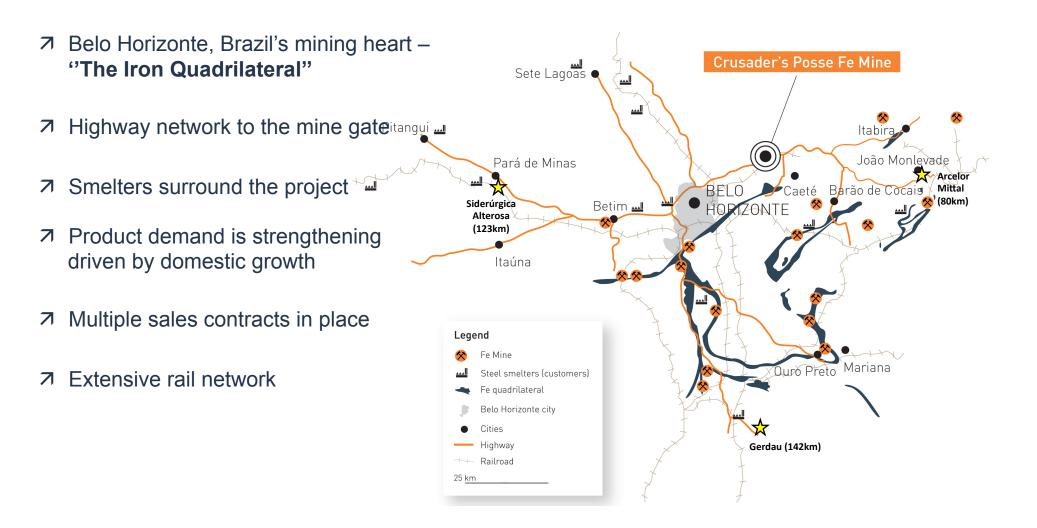




- ↗ 100% Crusader
- Full mining licence granted 30 January 2014
- ↗ Low Opex ~ A\$12/t
- Sales contracted with
  19 domestic customers
- Heart of Brazilian iron industry
- Positive cash flow in 2014 forecast > \$12M



### Close to Infrastructure & Customers



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# Posse Iron Ore Mine Resource + Growth



- ↗ Well understood 'Iron Quad' geology
- ↗ Both itabirite and haematite ore
- JORC Indicated and Inferred Resource of 36 Mt @ 43.5 % Fe
- ↗ Stripping ratio: initial 0.15:1 moving to 0.21:1
- Lump high-grade haematite of >64% Fe with very low phosphorus is the focus of early production



Posse Mineral Resource – Indicated & Inferred January 2009 (Coffey Mining)							
Mineralised ZonesTonnes (Mt)Fe (%)SiO2 (%)Al2O3 (%)Mn (%)P (%)LOI (%)							LOI (%)*
IPC	28.47	42.88	36.51	0.47	0.15	0.026	0.64
IPF	5.42	41.82	34.56	1.94	0.27	0.018	1.63
IRC	0.80	57.54	15.36	1.20	0.20	0.020	0.65
IRF	1.34	55.03	16.78	2.15	0.31	0.015	1.47
Total	36.02	43.50	35.02	0.77	0.18	0.024	0.82

\* Loss on Ignition

### **Drilling Underway at Posse**

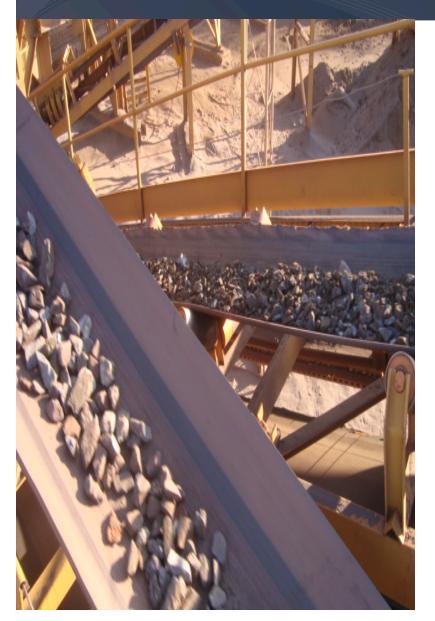
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- New program to determine depth extent / potential of newly discovered set of haematite veins
- First hole intercepted multiple metres of massive haematite
- Potential to yield high percentage of high-grade lump product
- 12 holes and over 1,000 metres planned



#### **Current Operations**

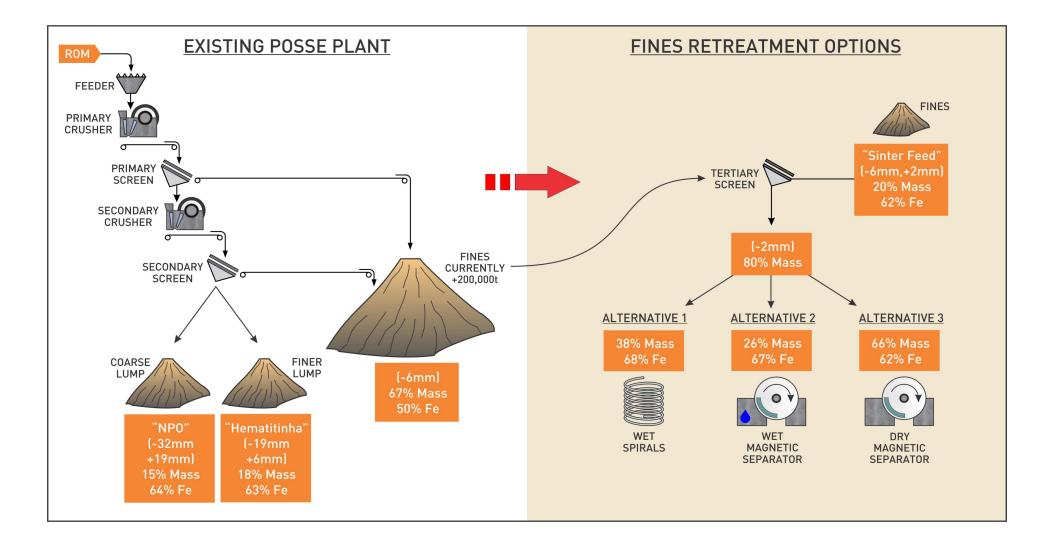




- **7** Currently producing three products:
  - Coarse lump (+19mm -32mm)
  - Fine lump (+6.35mm -19mm)
  - Fines (-6.35mm)
- Trial Mining Licensed for 300,000 tpa Complete
  - Lump Sales ~ 20,000 tpm
  - Fines stockpiled or sold 'cheap' to aid logistics
- Portaria de Lavra (Full Mining Licence) Gazetted
  30 January 2014
  - Allows increased storage and waste handling
  - Confidence to action fines beneficiationincreasing cash flows
  - Options for fines beneficiation to be presented this quarter

### **Growth – Processing Fines**

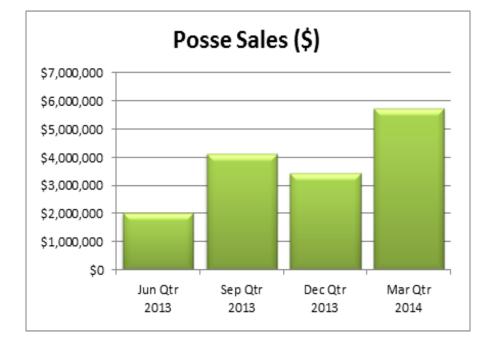


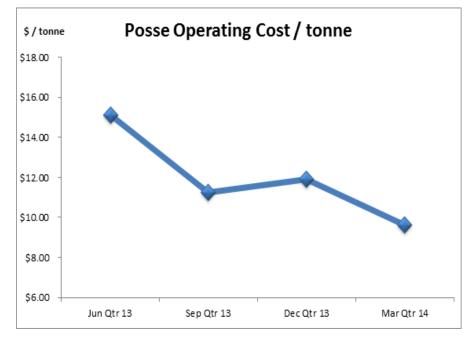


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### Sales & Operating Costs







# Crusader Gold Funded for the Future

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# Crusader Gold - 2014 Funded !



**Production** 



- All assets 100% Crusader owned 7
- Borborema Resource defined 7
  - 1.61 Moz Au in Reserve •
  - 85,000m drilled
  - PFS Borborema Project
  - Licensing progressing •
- Exploration 7
  - Seridó Active on 4,500km<sup>2</sup>
  - Juruena Drill ready ۲ Acquisition pending

# Borborema Pre-Feasibility Study



#### Conservative cashflow modelling (10% discount rate and US \$1300 gold price)

3Mtpa Base Case					
Mining inventory (In-pit Inferred & Indicated Resources, US \$1,150 Gold)	1.18Moz (27Mt @ 1.39 g/t)				
Mining throughput rate	3Mtpa				
Mine life	9 years				
Annual production*	Up to 180koz (ave 131koz)				
Estimated capex**	US \$169M				
Estimated opex	US \$558/oz				
Metallurgical recovery	96%				
NPV (10%) pre-tax	US \$250M				
IRR	32.9 %				
Strip ratio (life of mine)	4.23:1				

<sup>\*</sup> This is not a production forecast by the Company but an outcome of the PFS. There remains at present insufficient certainty with respect to whether economically mineable mineralisation exists to reliably estimate future production. Further exploration and studies are required to determine this.

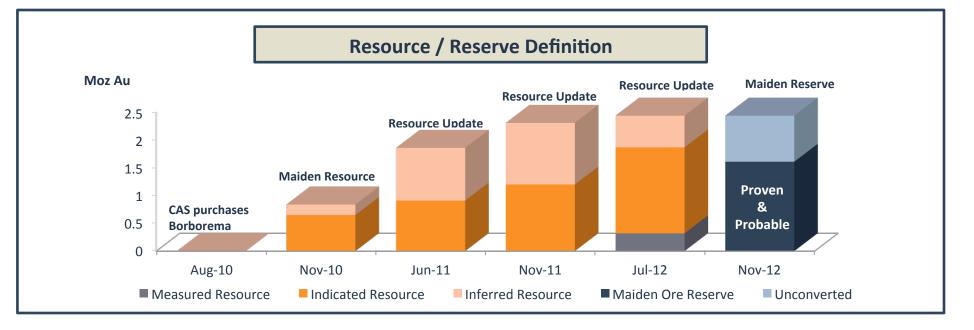
At this stage the Company has not yet progressed the Inferred and Indicated Resource or progressed the modifying factors sufficiently to define an Ore Reserve. As such, the production assumptions in the PFS should not be used as a basis for investment decisions about shares in the Company.

\*\* Assumes owner operated and includes 15% contingency. Does not include sustaining capex.

The Company is of the opinion that the Inferred and Indicated Resources have a reasonable prospect of eventual economic extraction. Under the JORC Code, an Ore Reserve is the economically mineable part of an Indicated or Measured Mineral Resource, as at the date of reporting, taking into account mining, metallurgical, economic, marketing, legal, social, and governmental factors (Modifying Factors).

#### **Resource Growth**





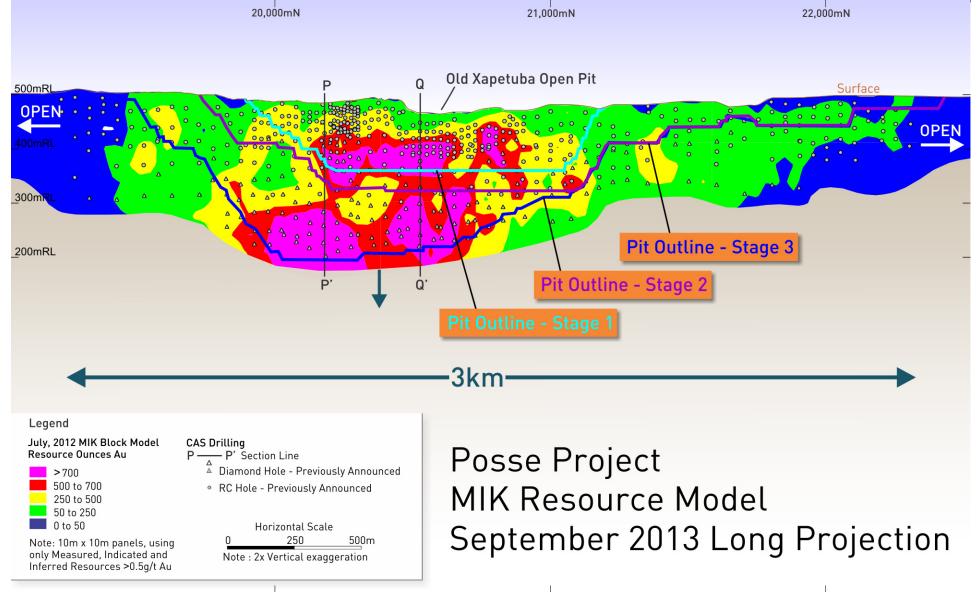
Borborema Gold Project - Maiden Ore Reserve						
Category Tonnes (Mt) Grade (Au g/t) Mineable Gold (koz)						
Proven	Oxide	0.65	0.80	17		
	Fresh	7.26	1.25	292		
Duchable	Oxide	1.68	0.70	38		
Probable	Fresh	32.82	1.20	1,260		
Total		42.41	1.18	1,610 (1.61 Moz)		

#### Ore Reserve estimate for the Borborema Gold Project

Reported at a 0.4 g/t cut-off for oxide and 0.5g/t cut-off for fresh material. The cut-off grades have been based on the latest throughput costs, gold price of US\$1350/oz, metallurgical recovery of 95% and then rounded up. Note, appropriate rounding has been applied, subtotals may not equal total figures.

# Borborema Long Section





#### Borborema crusader Cross Section P – P' 10250mE 9850mE 10050mE CPDD-138 1CP00,123 CP00.134 Ρ School P' CP0D.105 CP00.073 CADD.01, CPPC. Of 9 CAPC-018 CAPC 04 127.02 127.03 Surface 38m @ 1.01g/t 450 40m @ 0.79g/t 35m @ 1.94g/t 26m @ 0.97g/t 27m @ 1.37g/t 34m @ 1.27g/t 350 RL 35m @ 1.10g/t Legend 34m @ 1.12g/t Mineralised Envelope >0.5g/t Au July 2012 Mineral 29m @ 0.94g/t **Resource Estimate Categories** 50m @ 4.95g/t Measured Resource Incl. 27m @ 8.49g/t Legend Indicated Resource 47m @ 2.31g/t Down Hole Inferred Resource Incl. 15m @ 3.61g/t Au >0.5g/t Pre-Feasibility Study Pit Outline Down Hole Au July 2012 In-Pit Resource Shell Including Intercept

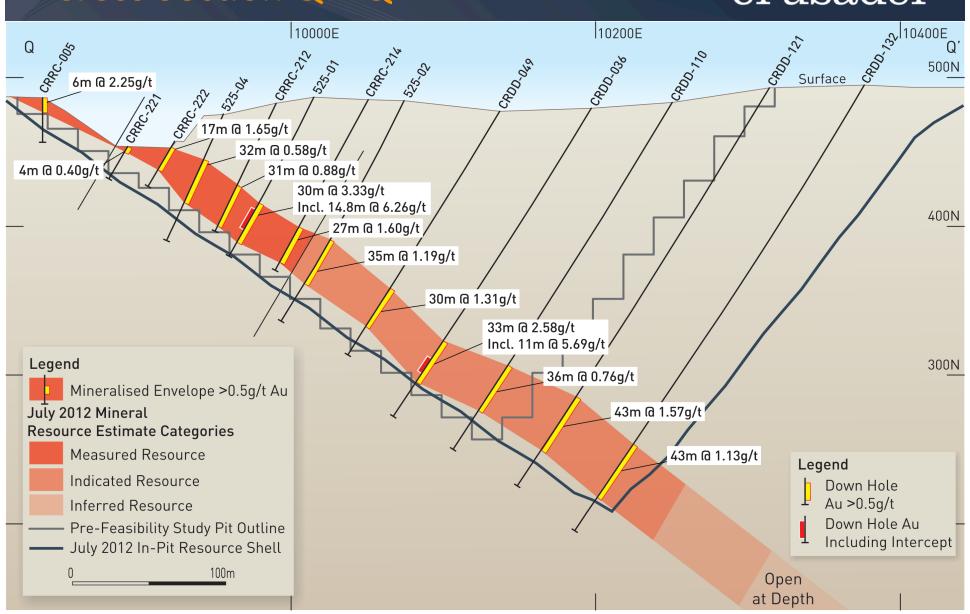
100m

20

Open at Depth

# Borborema Cross Section Q – Q'





# Critical Infrastructure Why We Like It!

#### **Excellent Location**

- **2**5km from mining town of Currais Novos (pop 42,000)
- Region has rich mining history

#### **Excellent Infrastructure**

- Bitumen Highway BR226, 140km from city (and port) of Natal to mine gate
- Power lines traverse Crusader's tenements
- Multiple water options available

#### Labour & Energy

- Low mining costs owner operated, cheap diesel and labour Mineralisation amenable to bulk mining
- Z Low processing costs- moderate consumables, low power costs

#### **Government Incentives**

- <math> Sudene tax concessions<sup>1</sup> may be available overall tax rate of 15.25%
- A Low government mineral royalties<sup>2</sup> currently 1%

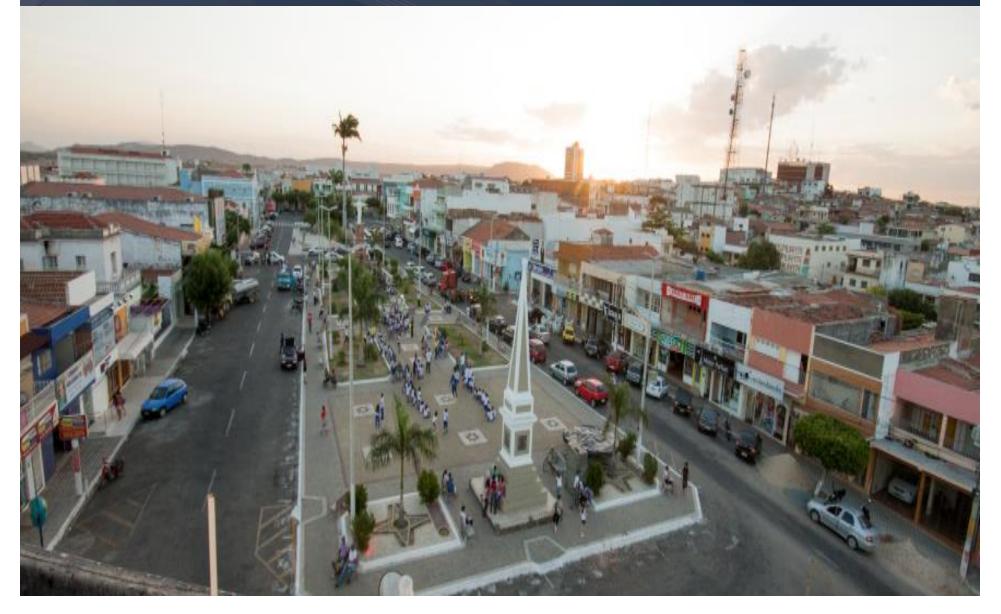
<sup>1</sup>A federal government economic stimulus scheme, called Sudene, provides significant benefits for businesses operation in the north east of Brazil, including Rio Grande do Norte. The scheme was introduced to boost economic activity in a relatively impoverished area of Brazil. Company tax rates are reduced from 34% to 15.25% for a period of 10 years. Other benefits include reduction in the rates of taxes such as goods and services taxes, sales taxes and import duties.

<sup>2</sup>The current rate of government royalty is 1% of sales revenue. There is also a 0.5% royalty payable to the landowners. Note that Crusader owns a number of farms in the immediate area including the one that covers the central part of the ore body.



### **Location & Services**

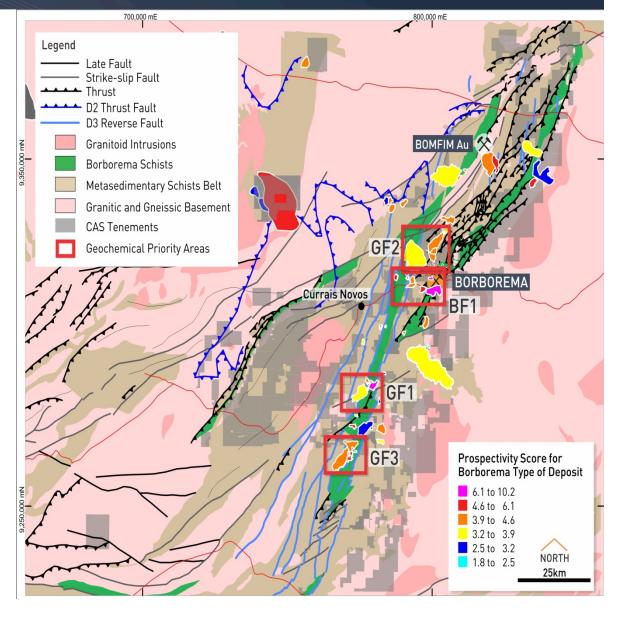




### **Regional Exploration**

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- Project area >4,500km<sup>2</sup> Expanding
- 100% owned by Crusaderfirst mover – New Gold Belt?
- ↗ ~200km of strike
- Never explored for gold



### Juruena and Novo Astro

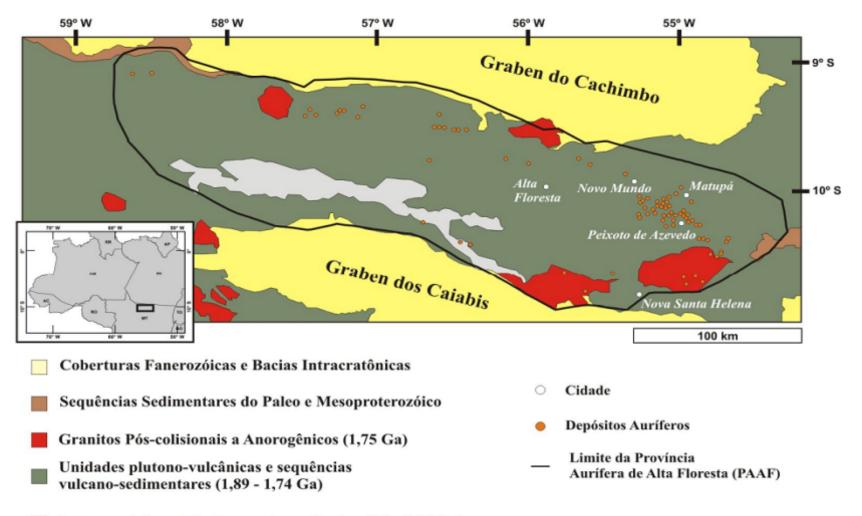




- Assets 100% owned by LDM, purchase to Crusader subject to LDM shareholder approval
- High-grade gold targets to focus exploration - complementary to Borborema
- Could initiate high-grade trial mining production in short term
- ↗ Large tenement holding
- ↗ Multiple drill ready targets

# Gold occurrences in the Alta Floresta Gold Province



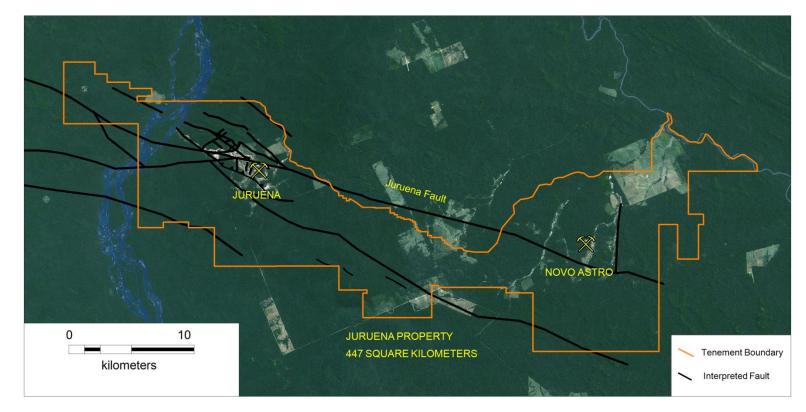


Supracrustais e plutonicas metamorfisadas (2,2 - 1,99 Ga)

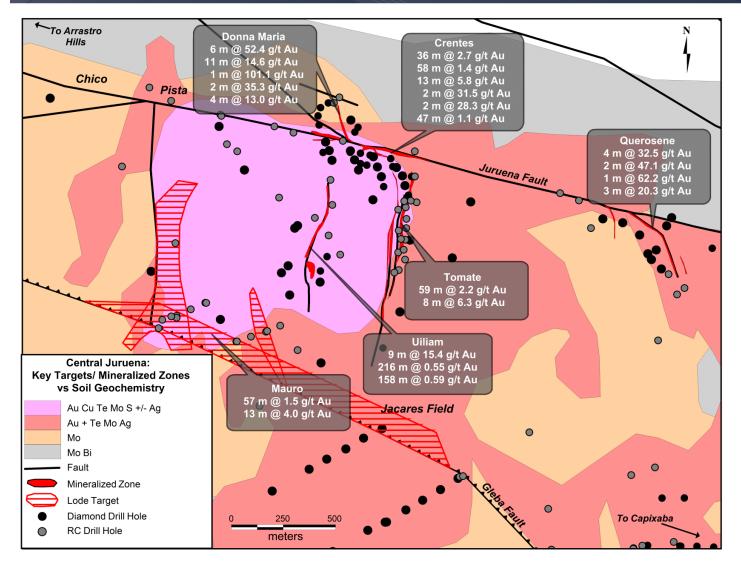
#### Juruena – Brief Background



- ↗ Worked by artisanal miners (Garimpeiros) since 1980s
- Owned mid-1990s by Madison (OuroMinas)
- ↗ 91 holes / 15,000m drilled, property lapsed 1997 (weak gold price, post-Bre-X)
- Property position has been consolidated by Lago Dourado
- ↗ Lago Dourado commenced activities in 2009



### Juruena Targets – Mineralised Zones



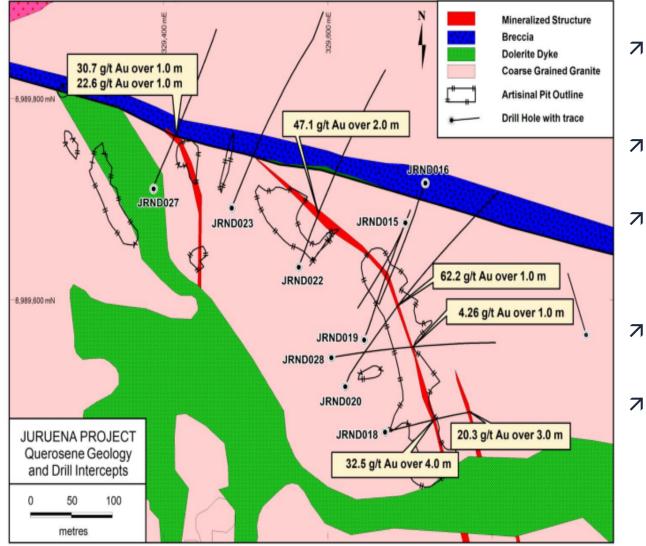


# Six mineralised zones discovered to date

- Two very high-grade zones: Querosene & Donna Maria
- Mineralisation structurally controlled
- Numerous structural targets remain untested

#### High-Grade Zone - Querosene





#### **Drill Results**

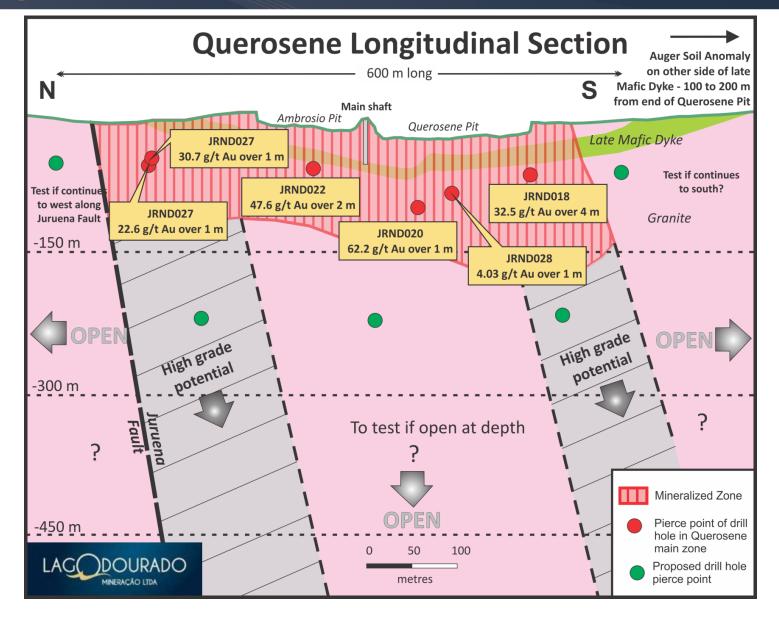
- Narrow, discrete intervals of massive sulphide veins with shear zones
- Average grade of all intercepts>15 g/t
- Strike length of >400m, structure11.5m wide

#### **Exploration Potential**

- Open along strike to the west and south and at depth
- Soil anomaly continues 2km south to the Capixaba Zone and 1.5km west to Crentes zone

### Querosene Long Section

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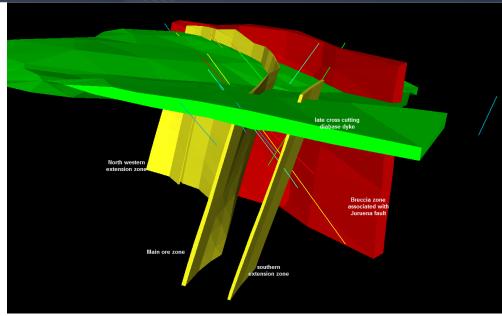
# Querpsene Shaft & Pit

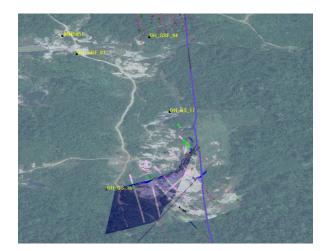


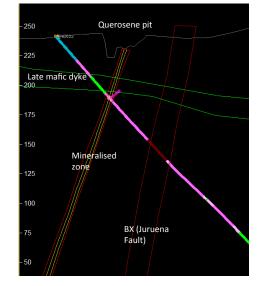


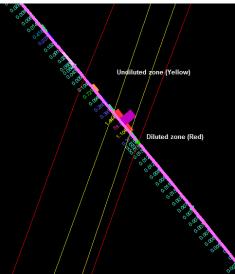
### **Querosene Resource Model**





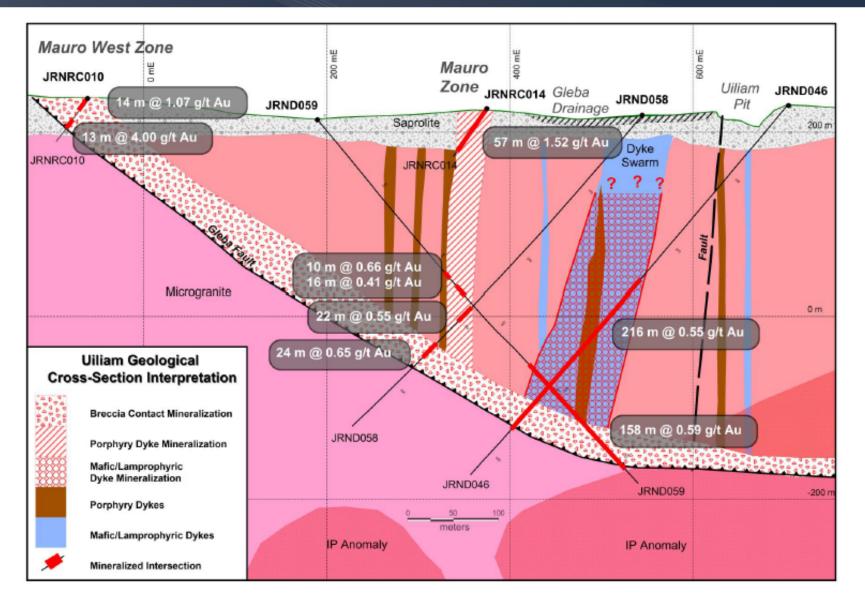






#### **Uiliam – Mauro Cross Section**





### **On-site Infrastructure**





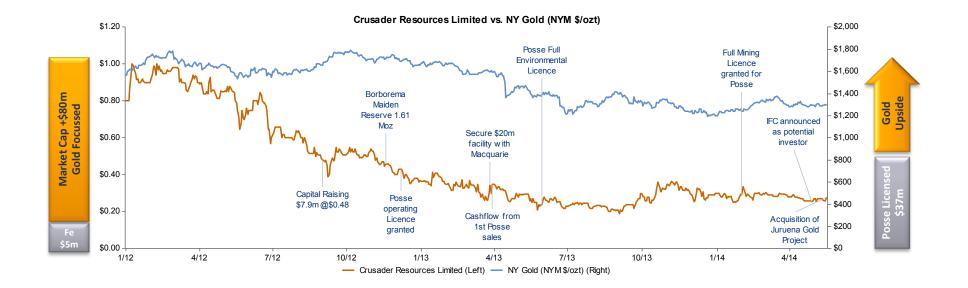
- Permanent offices
- Core shack
- Dormitories
- Kitchen
- Nursery





### Multiple Projects – Fully Funded







#### **CAS Investment Case**



#### **Cash Flow & Growth**

- High-grade Posse iron ore Cash 7 Flow
- Low Opex = high margins 7
- Large and active discovery path 7 **Diversification = Safety Net**
- Multi Commodity 7
  - Iron Ore
  - Gold
- Multi-project 7
- Protecting against the unexpected Brazil – Location
- Politically stable 7
- Low country risk 7
- Favourable social & economic 7 environment



### **Contact Information**



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### Appendix 1 Board & Management Excellent Track Record

#### **Board Of Directors**

Chairman	Stephen Copulos	60
+ 30 years' experience in business & investments in a wide range Director for both listed and unlisted companies. Major shareholde	e of industries, and over 14 years' experience as a company er of CAS for many years. Aligned to improving shareholder returns.	
Managing Director	Robert Smakman	Cation
	stralian & international experience. Founding member of Crusader & h Rob is based in Brazil (+ 8 yrs) and fluent in Portuguese. Fellow - Aus	in the second se
Executive Director	Paul Stephen	
+20 years' experience in Financial services & Australian equity m Paul is a founder of Crusader Resources Ltd. and holds a number	narkets, specialising in Capital Management & Corporate Structuring. er of non-executive roles in the finance and resources sectors.	
Non-Executive Director	David Netherway	0
Australian Mining Engineer with over 35 years' experience in min of mining companies. David is also Chairman, as well as non-exe	ning industry & has held senior management positions at a number ecutive Director of several listed mining companies.	T
Non-Executive Director	Mauricio Ferreira	6
More than 35 years in resources/ energy sectors. Highly educate the exploration and development of three Brazilian gold projects	ed and experienced manager. Ex Vale executive. Has been involved ir . Mauricio is a Brazilian national.	6
Non – Executive Director	John Evans	
	private sector finance executive roles, including listed Companies. Practice. Chairman of Crusader's Audit & Remuneration Committees.	

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### Appendix 2 **Board & Management Excellent Track Record**

#### Management

соо	Michael Schmulian
+ 40 years of experience as Geologist, Manager & Executive. De Brazilian mining legislation and culture. Mike is a Fellow of the AusIMM, is	eveloped several South American Gold Projects. In-depth knowledge of based in Brazil (+ 20 yrs) and fluent in Portuguese.
Project Manager	Wayne Foote
Wayne is a Mining Engineer with +26 years' gold mining experier experience in start-up and major expansion projects.	nce in Australia, North, East and West Africa, and Asia. He has extens
Posse Mine Manager	Mauro Calado
Brazilian Mining Engineer with over 25 years' experience in minir Mauro has completed an MBA Business Management and a post gr	
CFO & Company Secretary	Andrew Beigel
Andrew has over 15 years' corporate accounting & management other ASX listed companies in the resources sector. He has a Ba	experience across a range of industries and has held executive posit chelor of Commerce degree & is a member of CPA Aus.
Nick Harch	Financial Analyst
Former Executive Director with Macquarie Bank. Extensive resou	urce financing experience.
Consultants	

Linton Kirk

Kirk Mining Consultants Ltd.

Linton is a Mining Engineer with +30 years' experience in mining, earthmoving & management in several commodities, over five count He is a Fellow and Chartered Professional of the AusIMM.

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Mauro has completed an MBA Business Management and a post g	raduate qualification in Systems Analysis.	
CFO & Company Secretary	Andrew Beigel	1
Andrew has over 15 years' corporate accounting & management other ASX listed companies in the resources sector. He has a Ba	t experience across a range of industries and has held executive posit achelor of Commerce degree & is a member of CPA Aus.	t
Nick Harch	Financial Analyst	

