



A T N A

R E S O U R C E S L T D .



Forward Looking Statements



This presentation contains certain “forward-looking statements,” as defined in the United States Private Securities Litigation Reform Act of 1995, and within the meaning of Canadian securities legislation, relating to gold resources and reserves, and leverage to the price of gold, the Company’s ability to meet gold production and cost targets at Briggs and Reward, the Company’s ability to complete permitting and construction of the Reward project, developing a forward-looking plan and budget at Pinson or development of positive results at Columbia or the Company’s exploration properties, and the availability of financing to fund the Company’s development plans.

Forward-looking statements are statements that are not historical fact. They are based on the beliefs, estimates and opinions of the Company’s management on the date the statements are made and they involve a number of risks and uncertainties. Consequently, there can be no assurances that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. The Company undertakes no obligation to update these forward-looking statements if management’s beliefs, estimates or opinions, or other factors, should change. Factors that could cause future results to differ materially from those anticipated in these forward-looking statements include: the Company might encounter problems such as the significant depreciation of metals prices, changes in equity ownership, accidents and other risks associated with mining exploration, development and production operations, the risk that the Company will encounter unanticipated geological factors, the Company’s need for and ability to obtain additional financing, the possibility that the Company may not be able to secure permitting and other governmental clearances necessary to carry out the Company’s mine development plans that will prevent it from starting mining operations at the Company’s development projects. The principal risk factors associated with the Company’s business are discussed in greater detail in the Company’s various filings on SEDAR (www.sedar.com) with Canadian securities regulators and its filings with the U.S. Securities and Exchange Commission, including the Company’s Form 20-F dated March 26, 2010.

Cautionary Note to U.S. Investors — The United States Securities and Exchange Commission permits U.S. mining companies, in their filings with the SEC, to disclose only those mineral deposits that a company can economically and legally extract or produce. We use certain terms in this report, such as “measured,” “indicated,” and “inferred” “resources,” that the SEC guidelines strictly prohibit U.S. registered companies from including in their filings with the SEC. U.S. Investors are urged to closely consider the disclosure in our Form 20-F which may be obtained from us or found on www.sec.gov/edgar.



Atna Resources Ltd. (TSX : ATN)



- ✓ **Producing gold company**
- ✓ **Positive cash flow in 2010**
- ✓ **3.2 million ounces total gold resource and 3.4 million ounces of silver**
- ✓ **Demonstrated track record of building value**
- ✓ **Diversified project risk**
- ✓ **Western US focus**



Fundamental Strategy

Methodical Growth

Operational Execution

Enhancing Value

Financial Underpinning

Western U.S. Focus



- Development Properties
- Exploration Properties

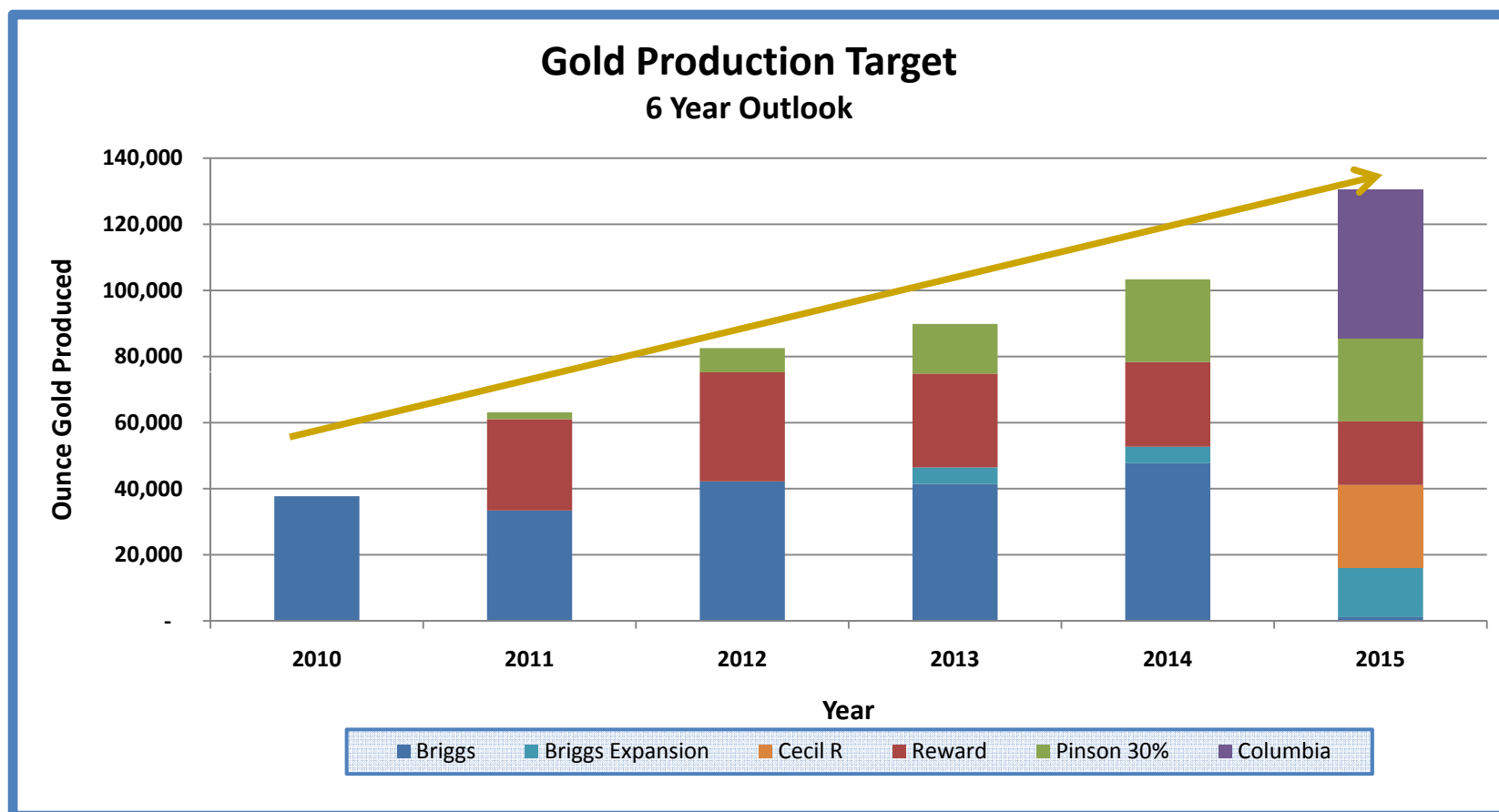


Corporate Information

Shares Outstanding	83.3 million
Warrants and Options	2.4 million warrants (exercise price U.S. \$2.20; Exp.5/2011) 4.6 million options
Current Stock Price	C \$0.60 (March 31, 2010)
Stock Price Range	C \$0.57 52-Week Low C \$0.99 52-Week High
Market Capitalization	C \$50 million (March 31, 2010)
Available Cash	U.S. \$11 million Q4 09* *Exclusive of in process gold inventory
Debt	U.S. \$15.6 million



Gold Production Outlook



Note:

1. Briggs production based on current mine plan (\$845 Au basis)
2. Briggs expansion potential is built on price driven resource conversion potential
3. Cecil R, Columbia and Pinson project outlooks are speculative and do not meet NI 43-101 standards
4. Reward production based on NI43-101 compliant feasibility study (\$700 Au basis)
5. Additional exploration potential at Briggs and Reward not included



Mineral Reserves (NI 43-101)

Category	Metric Tonne	Gold Grade (g/tonne)	Contained Ounces
Briggs^(1, 2) - 100% Atna			
Proven	5,207,200	0.760	127,220
Probable	4,751,900	0.690	105,450
Proven and Probable	9,959,100	0.727	<u>232,670</u>
Reward^(3,4) - 100% Atna			
Proven	1,239,500	0.934	37,220
Probable	5,244,800	0.809	136,480
Proven and Probable	6,484,300	0.833	<u>173,700</u>
<u>Total Proven and Probable</u>			<u>406,370</u>

- (1) Briggs 0.24 g/tonne cutoff grade & US \$845 gold price
(2) Briggs - 2.8:1 waste to ore ratio
(3) Reward >\$1.0 net incremental value & US \$845 gold price
(4) Reward - 2.8:1 waste to ore ratio



Mineral Resources (NI 43-101)

Category	Metric Tonne	Gold Grade (g/tonne)	Contained Ounces
<u>Measured & Indicated</u>			
Briggs - 100 % ⁽¹⁾	29,511,600	0.677	642,000
Cecil R – Briggs Satellite - 100 % ⁽²⁾	2,939,300	0.773	73,000
Reward - 100% ⁽³⁾	9,981,800	0.807	259,000
Columbia – 100% ⁽⁴⁾	15,118,200	1.527	742,000
Pinson - 30% ^{(5) (6)}	682,200	14.590	320,000
Total			<u>2,036,000</u>
<u>Inferred</u>			
Briggs - 100% ⁽¹⁾	13,891,700	0.591	264,000
Cecil R – Briggs Satellite - 100 % ⁽²⁾	4,666,600	0.660	99,000
Reward - 100% ⁽³⁾	2,557,400	0.620	51,000
Columbia – 100% ⁽⁴⁾	9,711,400	1.454	454,000
Pinson - 30% ^{(5) (6)}	918,400	11.650	344,000
Total			<u>1,212,000</u>

- (1) NI 43-101 Technical Report Briggs Project, March, 2009, updated February, 2010
(2) NI 43-101 Technical Report Cecil R Project, March, 2010
(3) NI 43-101 Technical Report Reward Gold Project, March 2008
(4) NI 43-101 Technical Report Columbia Project, October 2009
(5) Pinson project Basis: Atna 30%, Barrick 70%
(6) NI 43-101 Technical Report Pinson Gold Property, June 2007

Resource estimates include proven and probable reserves

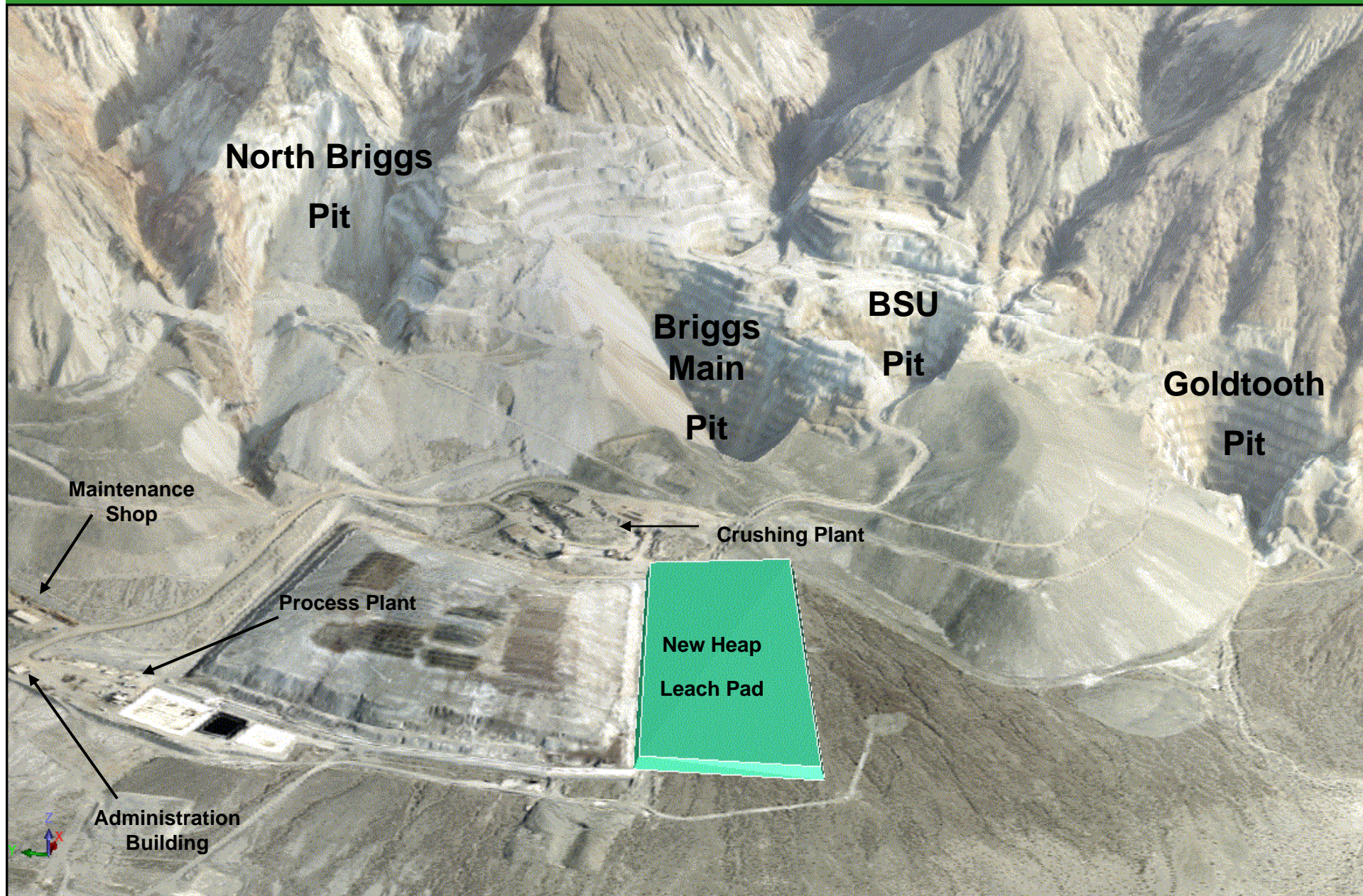


Briggs Mine - Inyo County, CA



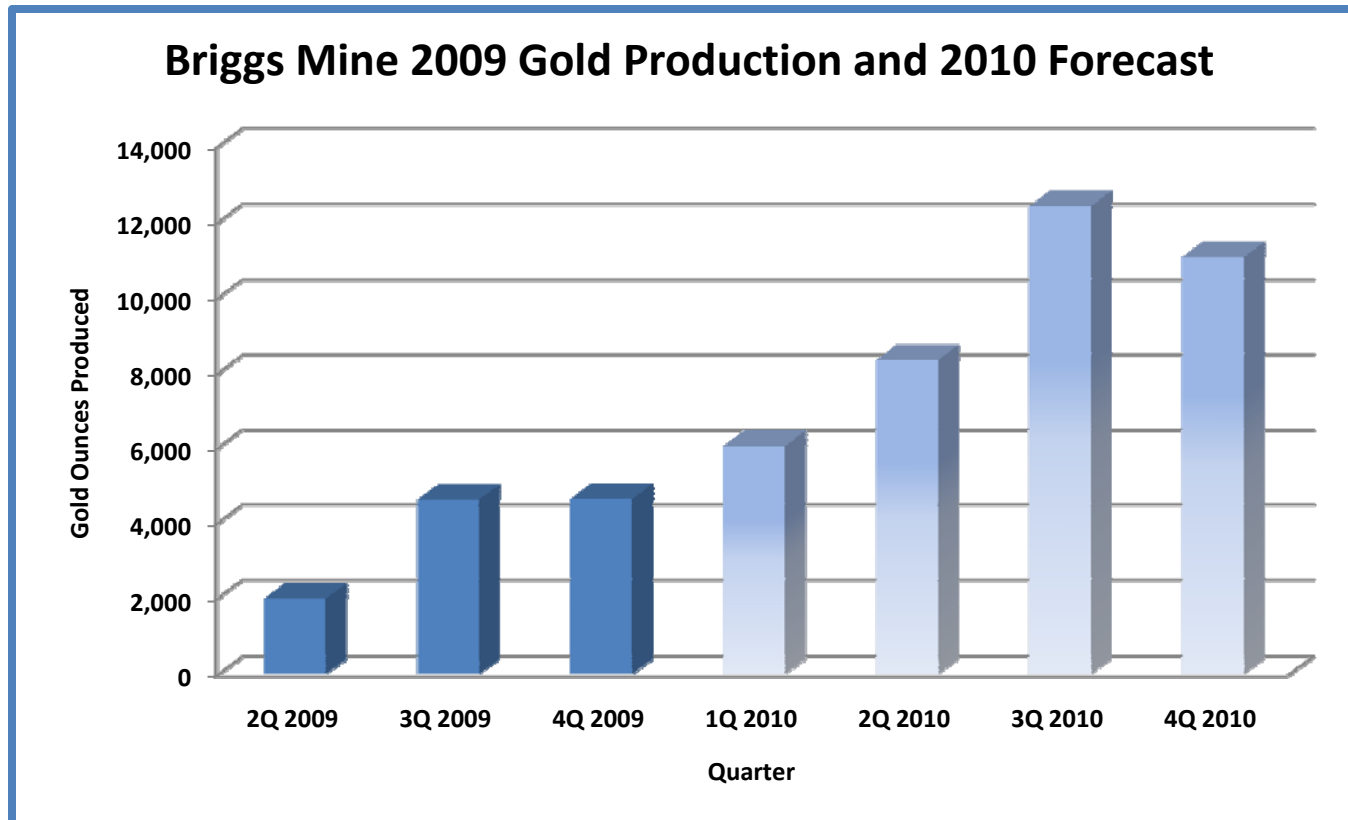


Briggs Mine Site Layout





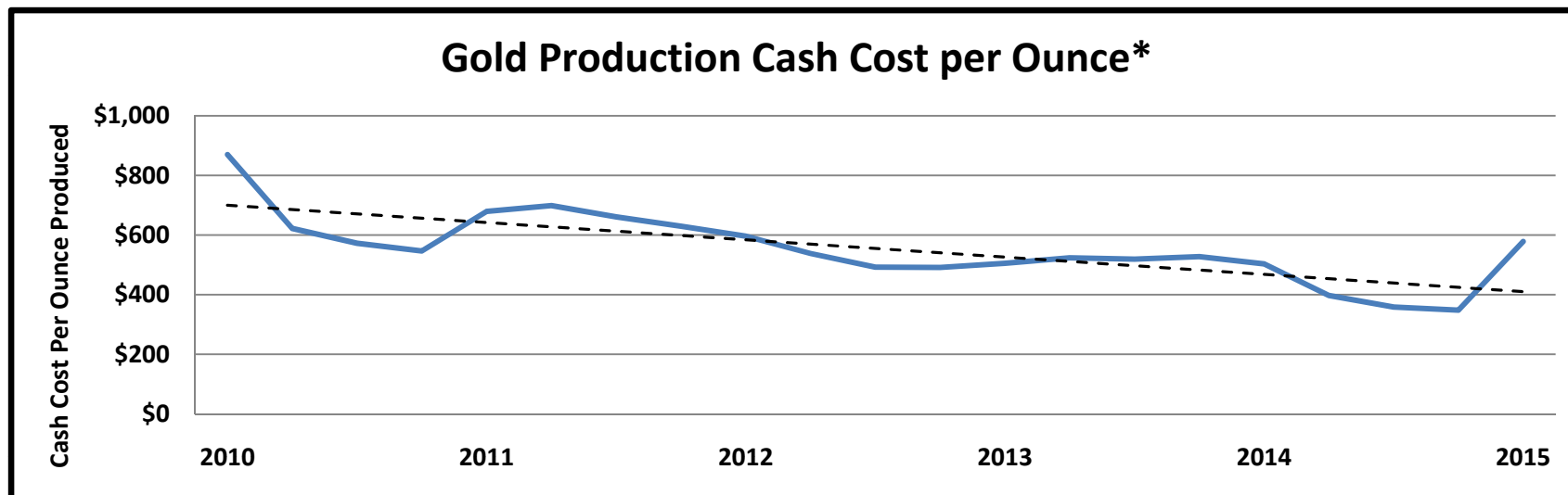
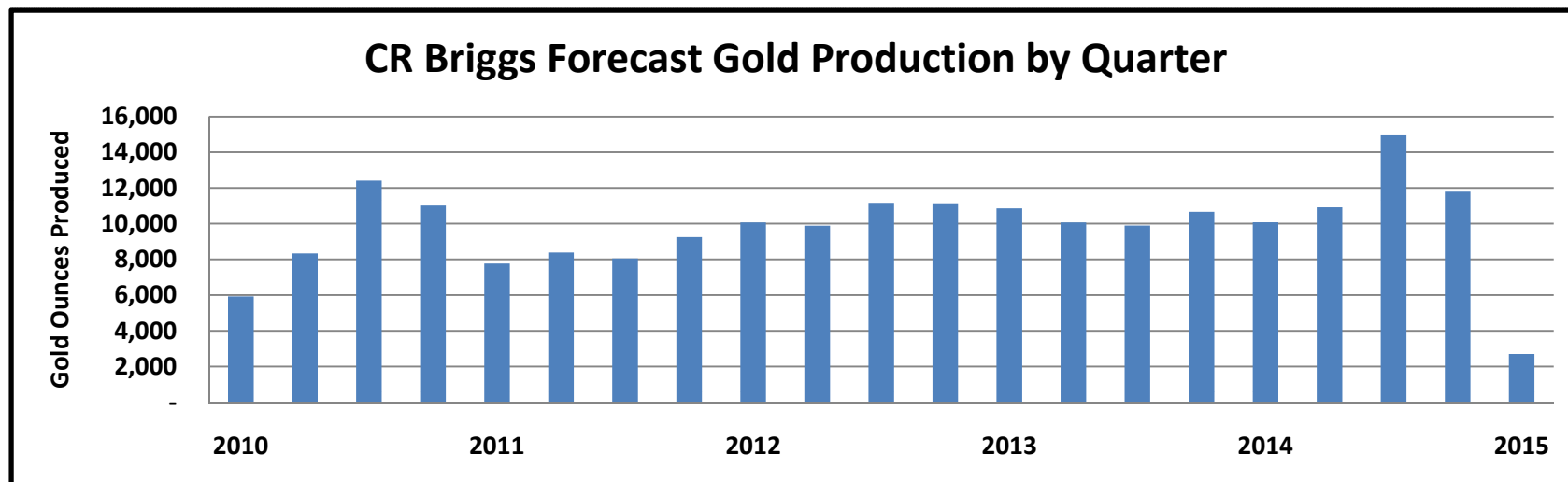
Briggs Gold Production



2010 target 36,000 to 40,000 gold ounces produced

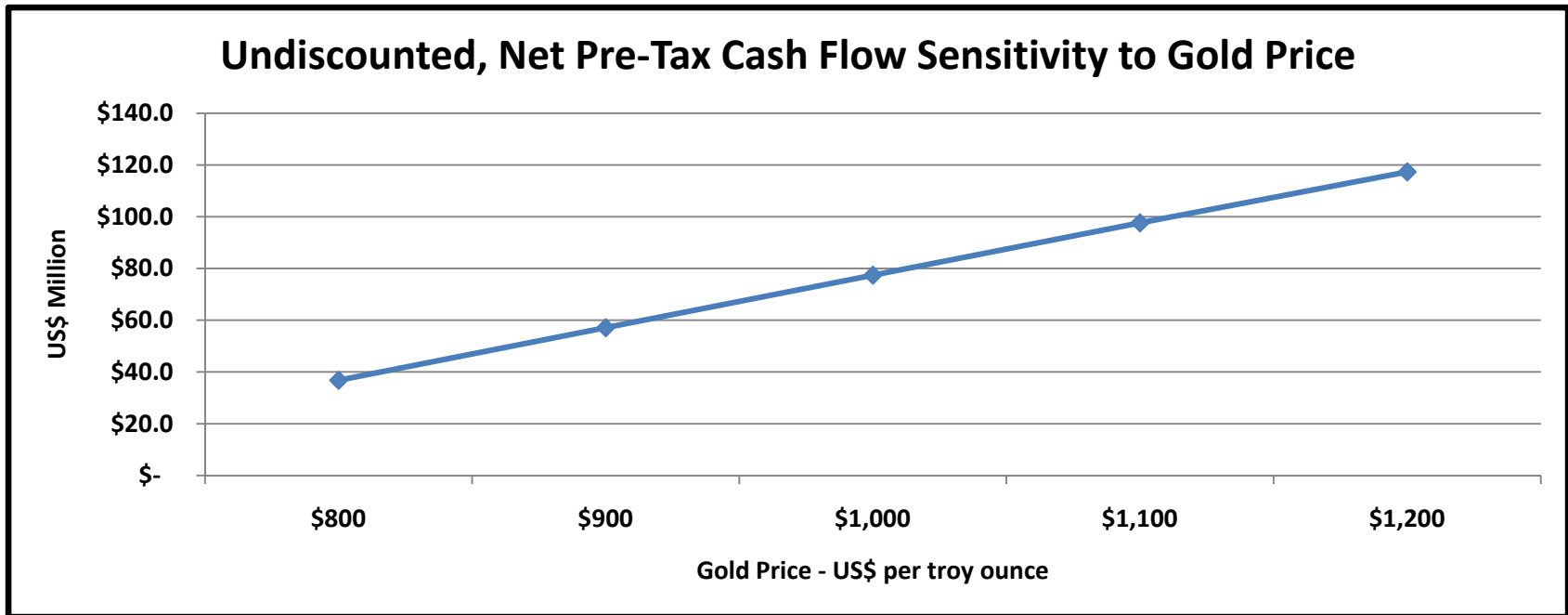


Briggs Life-of-Mine Production Profile



* Cash cost are a non-GAAP measure, calculated per Gold Institute Standards
Production based on 2010 Briggs Mine forecast

Briggs Life-of-Mine Economics



Project Economics

- 2010 Cash Flow = \$11.6 million @ \$1,100 gold
- 2010 Cash Cost = \$600 to \$625 per ounce
- LOM average Cash Cost \$525 per ounce

* Includes capital leases on major equipment units

** Cash cost is a non-GAAP measure, calculated using Gold Institute Standard

*** LOM sustaining CAPEX* \$11.1 million



Resource to Reserve Conversion Potential – Gold Price Sensitivity*

Au Price	In-Pit LG Measured & Indicated			In-Pit LG Inferred		
	Tonnes	Au Grade (gpt)	Au Ounces	Tonnes	Au Grade (gpt)	Au Ounces
\$1,100	22,284,600	0.677	485,400	1,767,300	0.479	27,200
\$1,000	20,626,000	0.703	465,900	1,582,500	0.493	25,100
\$900	18,951,500	0.731	445,500	1,353,000	0.515	22,400
\$800	17,002,200	0.772	421,800	1,189,600	0.531	20,300
\$700	14,641,900	0.828	390,000	721,000	0.591	13,700

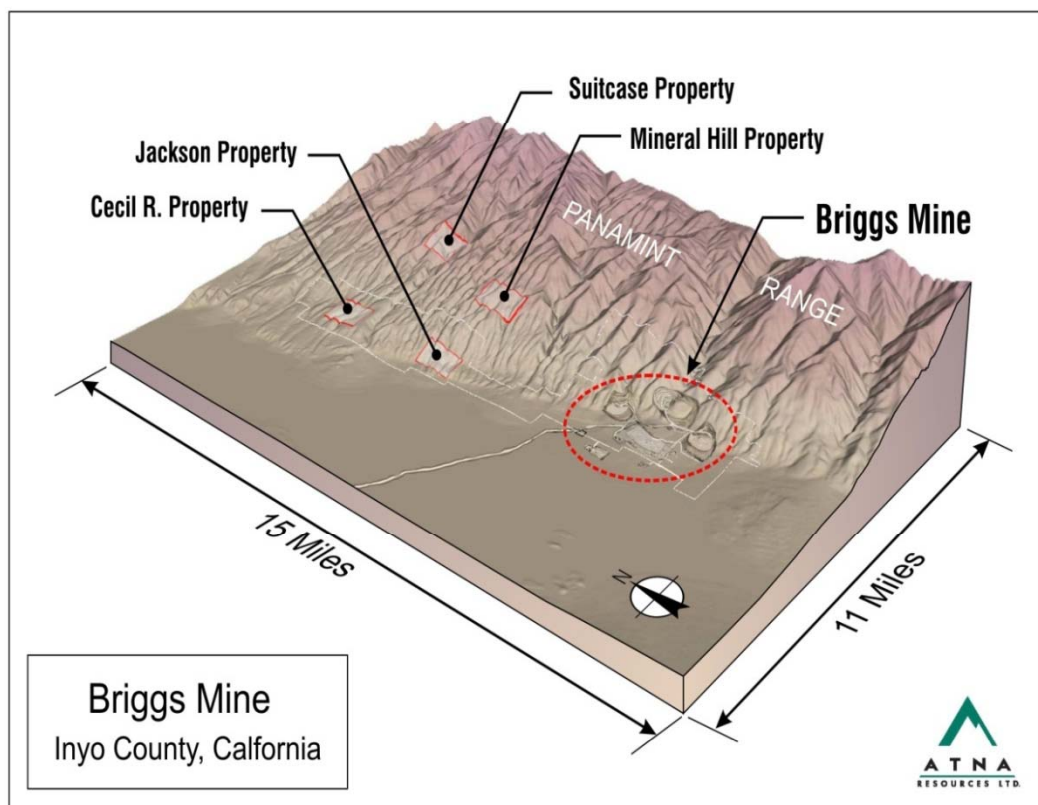
Note: Based on 2009 Briggs Mine operating cost structures
Current mine designs are based on \$845 LG

Strong Resource Expansion Potential

- Grow existing pits
- Briggs deep zone
- 10 Kilometers of Goldtooth fault structure
- \$1 Million drilling program planned in 2010



* LG (Lerchs Grossman) results are not reserves and only indicate the economic potential for resource to reserve conversion. Final mine design including access ramps are required to designate mineable reserves.



Cecil R Project

- Located four miles from Briggs
- NI 43-101 resource containing 173,000 ounces of gold in all categories
- Heap leach project to extend Briggs Mine life
- Preliminary Economic Assessment underway

District Exploration Targets

- Suitcase
- Mineral Hill
- Jackson



Reward Mine – Nye County, NV



Reward Property

Development Plan

Phase 1 - Infrastructure Development

- Initiated February 2010
- \$3.0 million

Phase 2 – Facilities Construction

- Commence Q3 2010
- \$22 million

Phase 3 – Commence Operations

- Production Q2 to Q3 2011

Currently Hiring!

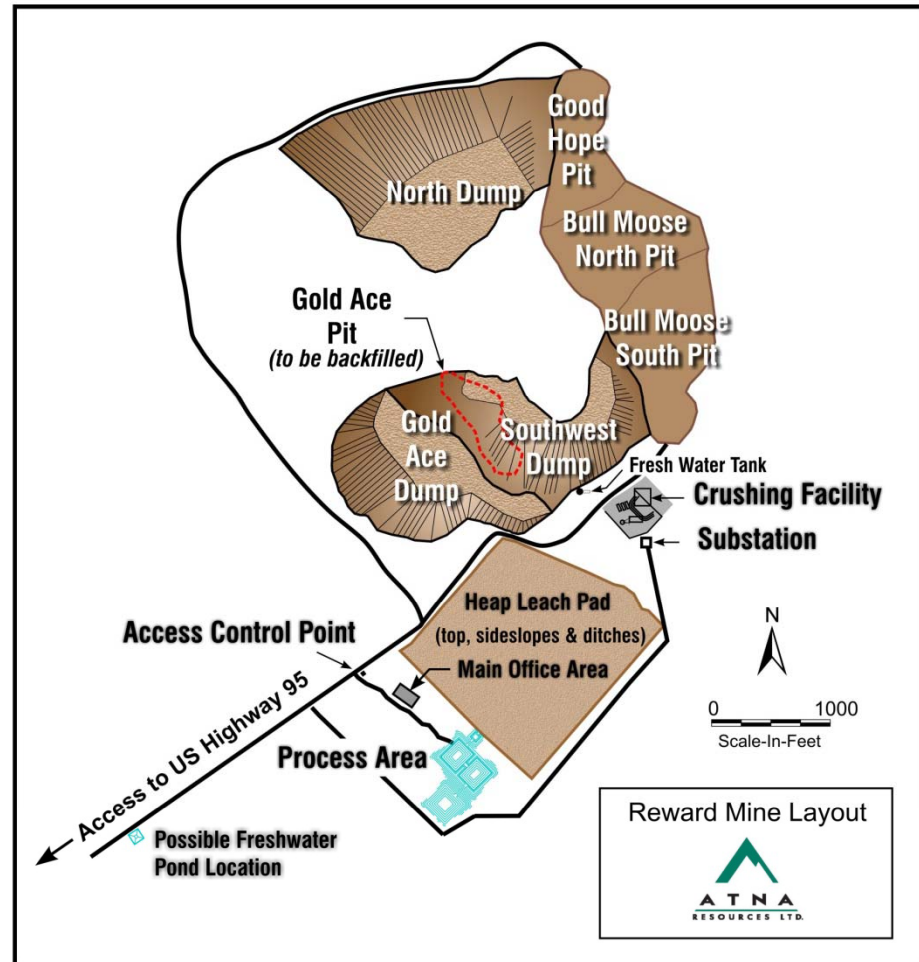
75 to 80 full time employees required

Project Economics*

- Gold heap leach project
- 139,000 ounces produced over five years
- Cash cost estimate US\$435
- Capital cost US\$25.4 million
- LOM pre-tax free cash flow US\$46 million at \$950 gold

Processing and Management Synergies with Briggs

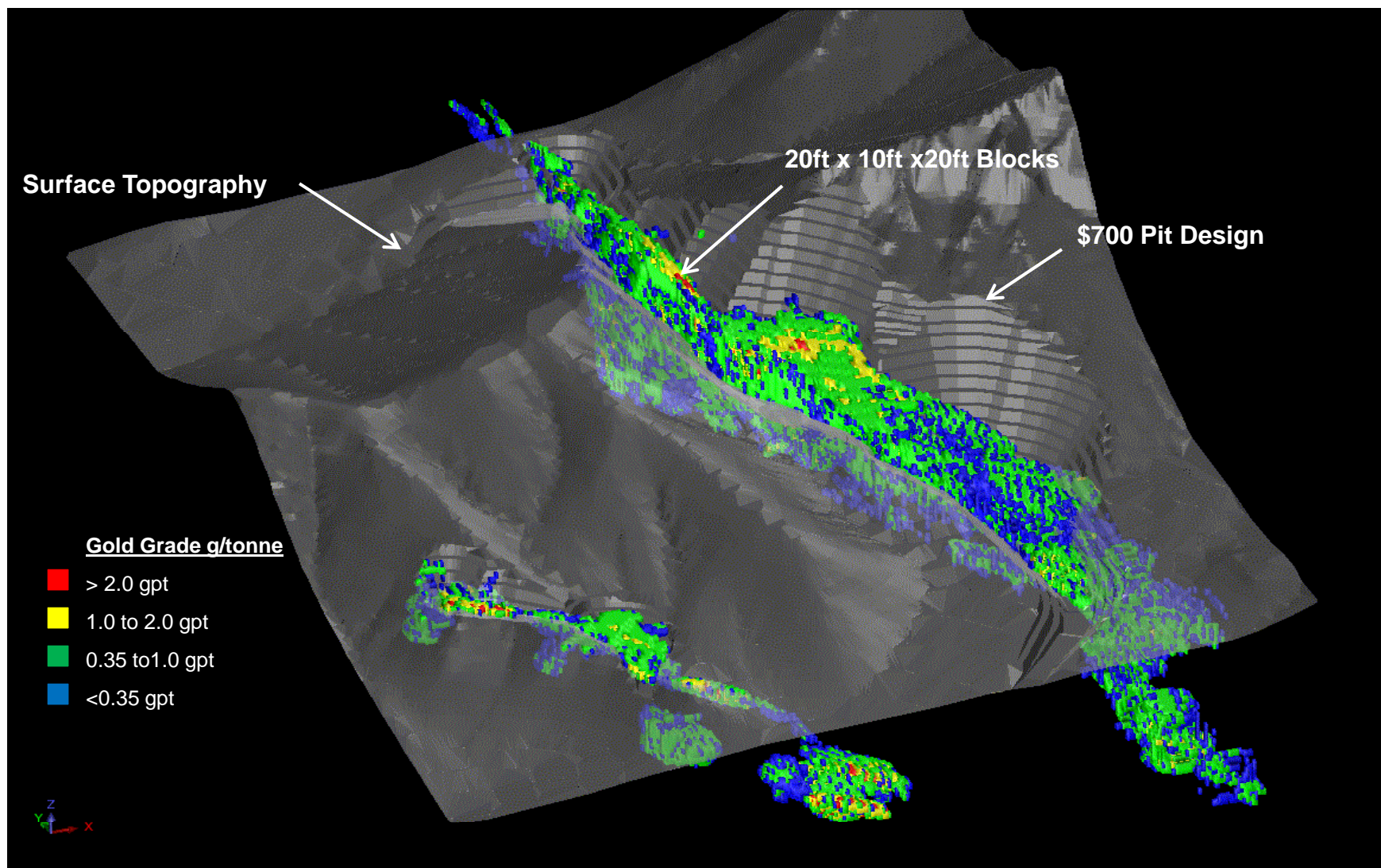
- Transport loaded carbon to Briggs
- Utilize Briggs refinery



Reward Site Layout

* NI 43-101 Technical Report Reward Gold Project, March 2008,

Reward Block Model and Pit Design





Reward Expansion Potential

Resource to Reserve Conversion Potential – Gold Price Sensitivity*

Au Price	In-Pit LG Measured & Indicated			In-Pit LG Inferred		
	Tonnes	Au Grade (gpt)	Au Ounces	Tonnes	Au Grade (gpt)	Au Ounces
\$1,100	10,318,700	0.718	238,100	1,609,500	0.408	21,100
\$1,000	9,898,700	0.729	232,100	1,439,800	0.417	19,300
\$900	9,228,800	0.754	223,700	1,087,600	0.475	16,600
\$800	7,912,500	0.803	204,200	707,900	0.527	12,000
\$700	6,668,000	0.849	182,000	446,100	0.551	7,900

Note: Based on 2009 Briggs mine actual consumable & labor costs
Current mine designs are based on \$845 LG



Resource Expansion Potential

- \$1.0 Million drilling budget for 2010
- Reward deposit remains open down dip & along strike
- Gold Ace area remains undrilled

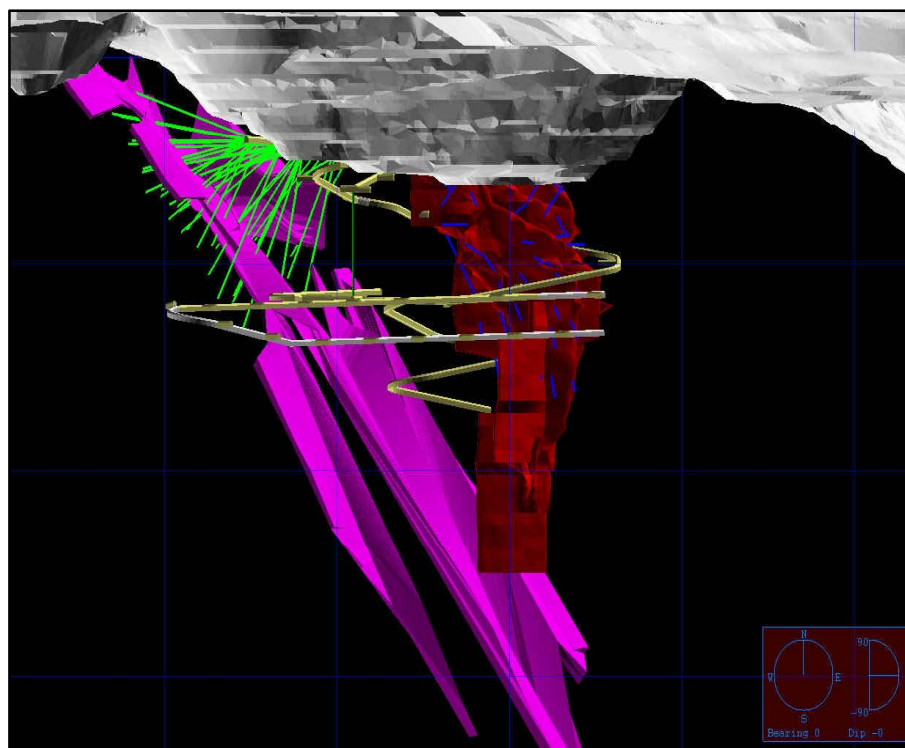
* LG (Lerchs Grossman) results are not reserves and only indicate the economic potential for resource to reserve conversion. Final mine design including access ramps are required to designate mineable reserves.

Project Status

- Atna 30%: Barrick 70% interest; operated by Barrick
- Potential for underground development
- Barrick is assessing its strategic options including sale of interest
- Atna has preemptive acquisition right

Robust Resource*

- 1.1 mil ounces M&I at 14.59 g/tonne
- 1.1 mil ounces Inferred at 11.65 g/tonne
- Does not include 2008-2009 drill results



X-Section showing CX pit, Ogee and Range Front zones with underground development & drilling

• NI 43-101 Technical Report Pinson Gold Property, December 2005
100% property basis

Key Infrastructure In Place

- 1,250 meters of primary underground access
- Electrical and dewatering systems
- Office and dry
- Lined stock pad

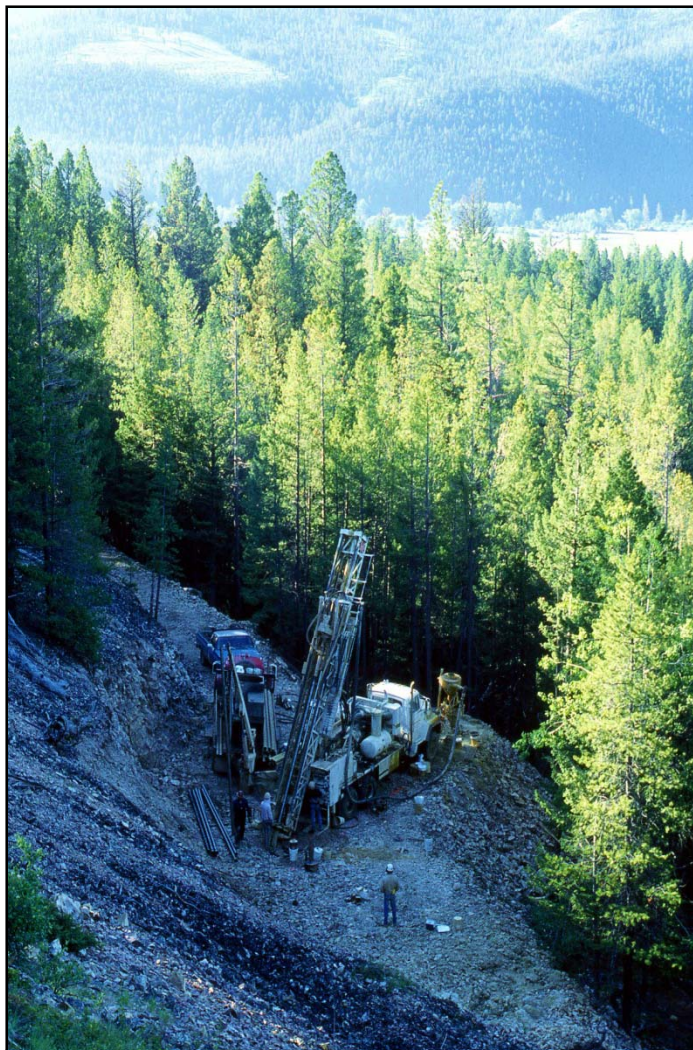
Construction of secondary access and ventilation raises remaining to allow ore mining

Processing Options

- Barrick holds first right of refusal for processing
 - Goldstrike autoclave for sulfide ore
 - Cortez Hills – oxide mill
- Newmont, Twin Creeks – all ores



Pinson CX pit with portal



Columbia Drilling

NI 43-101 Compliant Resource

- 1.2 MM ounce M&I+I gold
- 3.4 MM ounce M&I+I silver
- 100% controlled
- Up to 4% NSR royalty payable

Project Concept

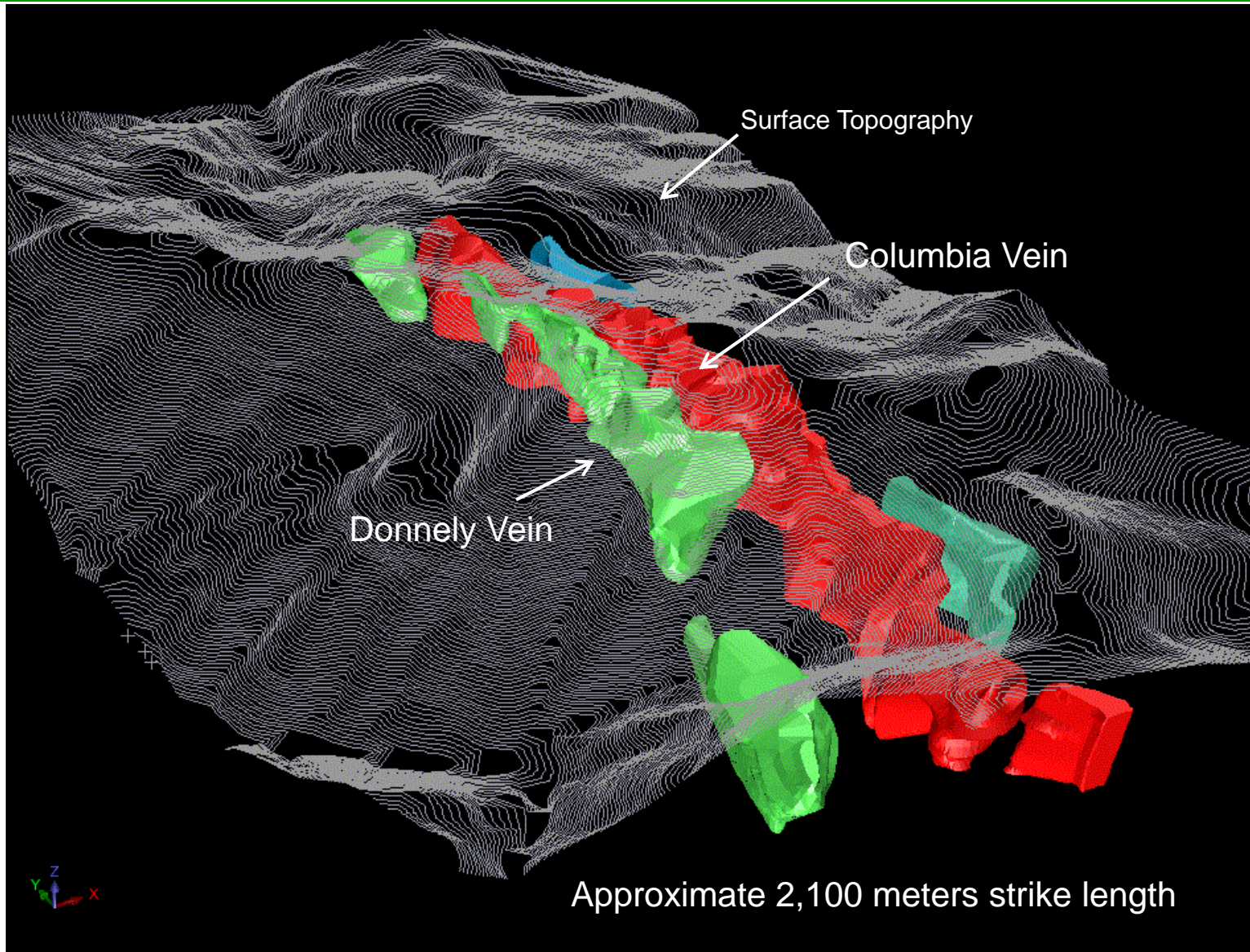
- Open pit mine
- Flotation/gravity gold recovery
- Dry tails, pit backfill option

Future Work Program

- Additional gravity/flotation recovery test work
- Baseline environmental data collection
- Initiate feasibility study

• NI 43-101 Technical Report Columbia Property, October 2009

Columbia Project – Montana



Exploration Properties

Nevada Exploration



100% Owned Projects

- Tram
- Atlanta
- 364,220 hectares Montana fee mineral rights

Venture & Option Projects

- Clover - Yamana Gold
- Adelaide - Golden Predator
- Tuscarora - Golden Predator
- Sand Creek Uranium - Uranium One

Other Assets (Non-US)

- Canada – six polymetallic properties
- Chile – silver & copper ventures (carried)



Management & Board

Executive Management

- James Hesketh, President & CEO
- David Suleski, VP & CFO
- William Stanley, VP Exploration
- Ken Mann, VP-GM, Briggs/Reward

Board of Directors

- David Watkins, Chairman
- Jim Hesketh, CEO and Director
- Glen Dickson, Director
- Ronald Parker, Director
- David Fagin, Director
- Chris Herald, Director
- John Theobald, Director



Why Own Atna?



- ✓ **Positive cash flow in 2010**
- ✓ **Over 3.2 million ounces total gold resource and 3.4 million ounces of silver**



- ✓ **Leveraging value through gold production**
- ✓ **Strong organic growth model**



- ✓ **Experienced management team and board**
- ✓ **Diversified project risk**