



NORTHERN VERTEX
MINING CORP



MOSS MINE PROJECT ADVANCING TO COMMERCIAL PRODUCTION

Gold-Silver Production | Commences Q4 2017

IMMINENT GOLD PRODUCTION
LOW COST • OPEN PIT • HEAP LEACH



Forward Looking Statements

In the interest of providing current and potential shareholders with information regarding the Company's plans and future operations, certain statements and graphics in this presentation contain "forward looking statements." Such forward looking statements involve risk and uncertainty. Although at the time of preparation information used in this presentation was considered reasonable by management, the results may prove to be incorrect and actual results may differ materially from those anticipated in the statements made. Participants are advised to read the section entitled "Risk and Uncertainties" in the Company's MD&A dated September 30, 2015.

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Cautionary Note to US Investors

National Instrument 43-101 Standards of Disclosure for Mineral Projects ("NI 43-101") is a rule developed by the Canadian Securities Administrators that establishes standards for all public disclosures an issuer makes of scientific and technical information concerning mineral projects. Unless otherwise indicated, all reserve and resource estimates contained or incorporated by reference in this presentation have been prepared in accordance with NI 43-101 and the Canadian Institute of Mining Metallurgy and Petroleum Classification System. These standards differ significantly from the requirements of the SEC, and reserve and resource information contained herein and incorporated by reference into this presentation may not be comparable to similar information disclosed by U.S. companies.

In this presentation, we use the terms "measured", "indicated" and "inferred" resources. U.S. investors are cautioned that, while such terms are recognized and required by Canadian securities laws, the SEC does not recognize them. Under U.S. standards, mineralization may not be classified as a "reserve" unless the determination has been made that the mineralization could be economically and legally produced or extracted at the time the reserve determination is made. U.S. investors are cautioned not to assume that all or any part of measured or indicated resources will ever be converted into reserves.

U.S. investors should also understand that "inferred resources" have a great amount of uncertainty as to their existence and as to whether they can be mined legally or economically. It cannot be assumed that all or any part of the "inferred resources" will ever be upgraded to a higher category. Therefore, U.S. investors are also cautioned not to assume that all or any part of the inferred resources exist, or that they can be mined legally or economically. Disclosure of "contained ounces" is permitted disclosure under Canadian regulations; however, the SEC only permits issuers to report "resources" as in place tonnage and grade without reference to unit measures. Accordingly, information concerning descriptions of mineralization and resources contained in this presentation, including the documents incorporated by reference therein, may not be comparable to information made public by U.S. companies subject to the reporting and disclosure requirements of the SEC.

We have not independently verified the accuracy of the information regarding the mining industry and other market data set forth herein. Mr. Jim McDonald, P. Geo., is the qualified person responsible for overseeing the technical aspects of this presentation. This information is not intended to provide and should not be relied upon for accounting, legal or tax advice or investment recommendations. You should consult your own advisors as to the accounting, legal, tax, regulatory, business, financial and related aspects of making an investment in the Company.



Moss Mine Investments Highlights

- Open-pit, Low strip, Heap leach deposit
- Pilot Production “De-Risked” Commercial Production
- Robust Economics: 48% after-tax IRR
- Targeting +42,000 Gold EQ.Oz/yr
- Resource Expansion and Exploration Drilling Upside



Capital Structure

Exchange Listings

TSX.V: NEE | OTC: NHVCF

Common Shares O/S	111.47 million
Year Trading Range	\$0.22 - \$0.70
Daily Average Volume	120,000 shares /day (based on last 3 months)
Market Capitalization	C\$60.19 million (as at \$0.54 on April 13, 2017)
Warrants Outstanding	25.8 million (\$0.45 - \$1.00)
Options	8.67 million (\$0.25 - \$1.40)
Cash	C\$10.67 million (as at Dec. 31, 2016)
Sprott Credit Facility	US\$20 million - US\$5 million drawn

Key shareholders

Directors (14%)
Insider Associates (24%)
Private Banking / High Net Worth / Gold 2000



Key Management Team

FINANCE AND M&A

Ken Berry (B. Comm.), Chairman & Chief Executive Officer - Co-founder of NEE and instrumental role in acquiring the Moss project raising in excess of \$47M to advance the Moss Mine Gold-Silver from the exploration stage to commercial production. Mr. Berry brings over 20 years of senior level experience in capital markets, mine exploration and development. As a co-founder and Chairman of Kootenay Silver Inc., Mr. Berry has helped guide the company through a major transitional period that included the strategic acquisition of Northair Silver and a carried interest to production option agreement with Pan American Silver

David Farrell (LL.P.), Director - Extensive experience in corporate finance with junior to mid-tier global mining companies for more than 20 years. Lawyer at Stikeman Elliott, Vancouver, Budapest and London. Managing Director of Mergers & Acquisitions at Endeavour Financial where he structured, negotiated & closed over US\$25 billion worth of M&A transactions for junior and mid-tier natural resource companies.

Christopher Park (CPA, CGA), CFO & Corporate Secretary - Chartered Professional Accountant with several years of senior financial management experience within the mining industry. Held several corporate controller positions with mining companies, including Imperial Metals where he worked closely with senior operational management to ensure accurate internal reporting for two operating mines including construction and commissioning of the \$660M Red Chris Mine in BC.

OPERATIONS

Joseph Bardswich (P. Eng.), General Manager & Director - Mining Engineer with extensive experience in underground, open pit and alluvial operations in Canada, the U.S., Europe and Africa. Extensive experience in all facets of mining from contract miner, through production supervision, mining engineering, heavy civil engineering and mine management. Professional Engineer in the Province of Ontario and state of Arizona. Life member of the Canadian Institute of Mining and Metallurgy.

Dr. David Stone (PhD., PE), Moss Project Manager - Responsible for overseeing the design, procurement and construction activities of at the Moss Mine. He has authored numerous prefeasibility and feasibility studies and has extensive experience in the design and construction of heap leach mines dating back to the 1980's including Beal Mountain in Montana, Basin Creek in Montana, Yellow Aster in California, Manhattan in Nevada and Brewery Creek in the Yukon.

TECHNICAL COMMITTEE

Gordon D. Ulrich (B.A. Sc. M.B.A., P.Eng), Director - Mining executive with over 40 years senior level experience. President and CEO of Luscar Ltd., a major energy company (coal, oil and gas) from 1990-2001. Took Luscar public with Luscar Coal Income Fund in 1996 (\$500 million IPO) and doubled company revenues to \$700 million. Serves on the Alberta Electric System Operator Board.

Jim McDonald (P.Geo.), Director - 25 years experience in the international mining sector. Proven track record developing and advancing projects from the exploration phase to production. Co-founded Alamos Gold. Played key role in advancing Alamos' Mulatos Mine from early stage exploration and development increased market cap from \$6M to \$1.5B. Former Director of Alamos Gold. Served on Technical, Environmental, Security and Safety, Audit, Corporate Governance and Compensation Committees.



“Ability to Execute” - *Corporate Milestones*

UPCOMING MILESTONES

- Option Agreement with Patriot Gold on the Moss Project

- Preliminary Economic Assessment
- Phase I Pilot Plant opened by Governor Janice Brewer

- Feasibility Study Results
- Announced US\$20M Indicative Term Sheet

- **SECURE EQUIPMENT FINANCING**
- **MINE EXTENSION REPORT**
- **INCREASE AWARENESS IN U.S.**
- **COMPLETE BUILDOUT**
- **FIRST GOLD POUR**
- **INSTALL POWERLINE**

2011

2012

2013

2014

2015

2016

2017

- Initial Exploration and Drilling Program
- Mine Building Management experience added

- Feasibility Study Resource

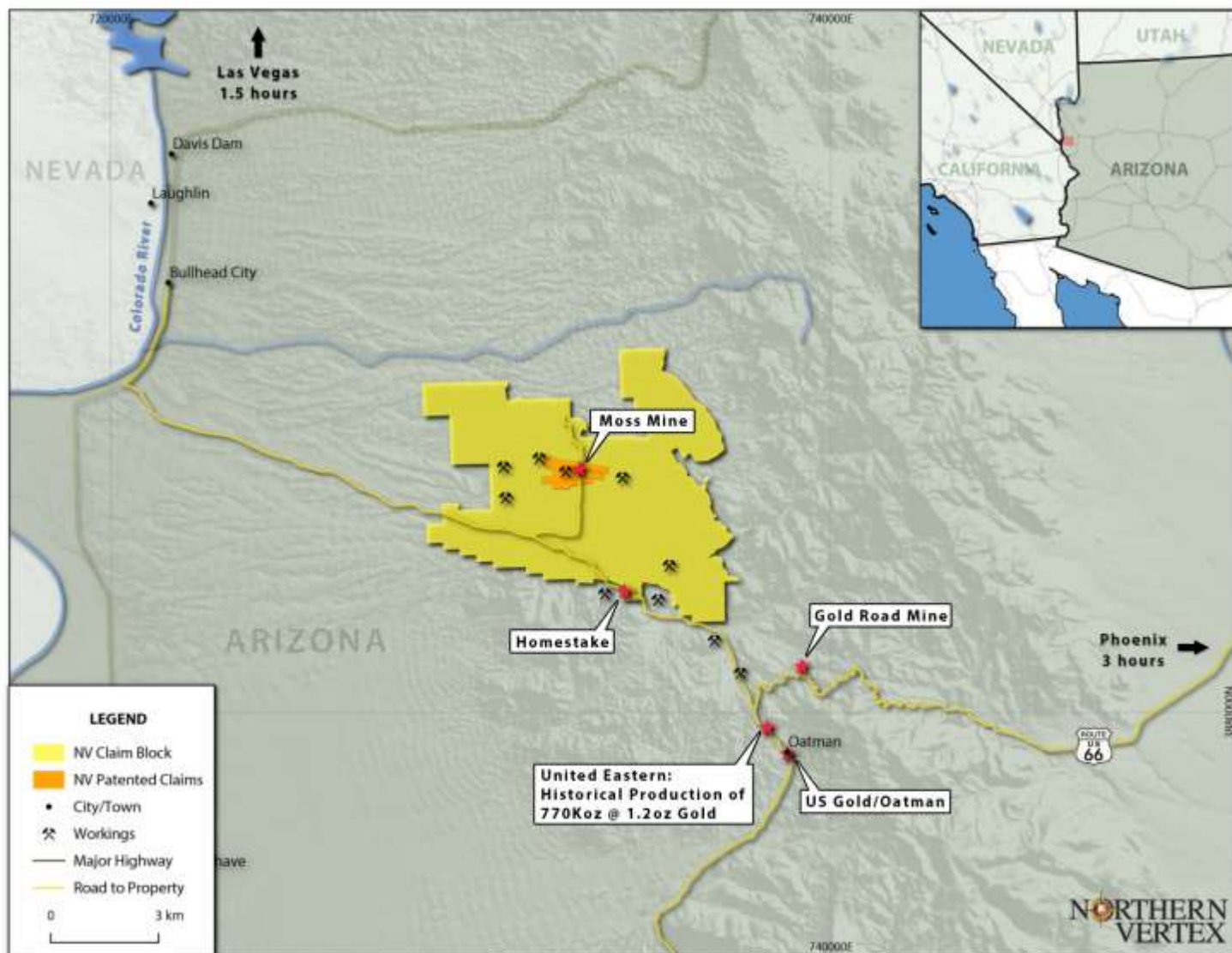
- Acquired 100% of Moss Project
- M3 Engineering of Tucson, AZ appointed EPCM Contractor
- Dr. Dave Stone appointed Construction Project Manager
- Completed US\$20M Debt facility with Sprott Private Resource Lending

\$52 Million



Location of Moss Mine

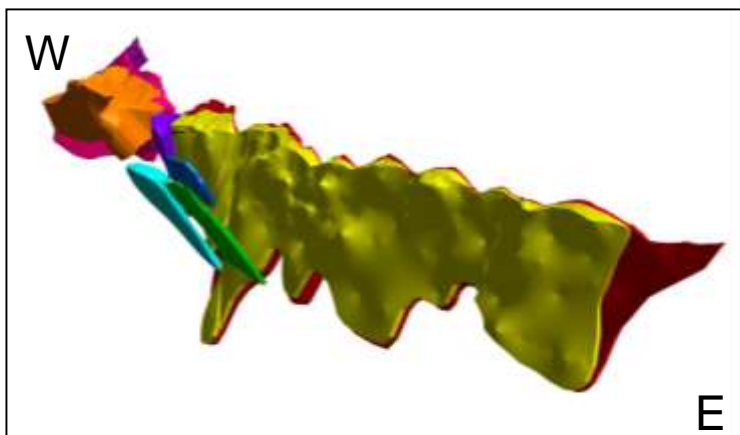
Patented and Unpatented Claims





Moss Mine Gold-Silver Geology

- Uncomplicated Geology
- Gold-silver stock-work, brecciated, low sulphidation, epithermal vein system
- Outcrops at surface for 1,500 metres





Mineral Resources and Reserves

at 0.25 Gold g/t Cut-Off

Resource Category	Tonnes	Au (g/t)	Ag (g/t)	Au (oz)	Ag (oz)	Au Eq (g/t)	Au Eq (oz)
Measured	4,860,000	0.97	10.4	152,000	1,630,000	1.10	172,000
Indicated	10,620,000	0.66	8.7	225,000	2,980,000	0.77	263,000
Measured & Indicated	15,480,000	0.76	9.3	377,000	4,610,000	0.87	435,000
Inferred	2,180,000	0.55	5.6	38,000	390,000	0.62	43,000

NI 43-101 Technical Report Feasibility Study, "Mohave County Arizona" Report by M3 Engineering, Effective date June 8, 2015 calculated the Mineral Resource Estimate within a pit constrained LG pit with maximum slope angles of 65°. Metal prices of \$1,250/oz and \$20/oz were used for gold and silver respectively. Metallurgical recoveries of 82% for gold and 65% for silver were applied. • A 0.25 g/t gold cut-off was estimated based on a total process and G&A operating cost of \$6.97/t of ore mined.

Material	Reserve Category	ROM (MT)	Diluted Au (g/t)	Diluted Ag (g/t)	Contained Au (oz)	Contained Ag (oz)	Diluted AuEq (g/t)	Contained AuEq (oz)
Primary Ore	Proven	4.20	0.95	10.01	128,160	1,352,030	1.07	144,490
	Probable	3.30	0.75	9.20	79,770	976,260	0.86	91,240
	Combined	7.50	0.86	9.66	207,930	2,328,290	0.97	233,900
Low Grade Ore	Proven	0.25	0.22	2.99	1,740	24,070	0.25	2,010
	Probable	0.21	0.22	3.54	1,460	23,920	0.26	1,760
	Combined	0.46	0.22	3.24	3,190	47,980	0.25	3,700
ALL	Combined	7.96	0.82	9.29	211,130	2,376,270	0.93	238,010

NI 43-101 Technical Report Feasibility Study, "Mohave County Arizona" Report by M3 Engineering, Effective date June 8, 2015 calculated the Mineral Reserve Estimate within a pit-constrained LG pit with maximum slope angles of 65°. Metal prices of US\$1,250/oz and US\$18.50/oz were used for gold and silver respectively. Metallurgical recoveries of 82% for gold and 65% for silver were applied. • A variable gold cut-off was estimated based on a mining cost of US\$2.75/t mined, and a total process and G&A operating cost of US\$6.48/t of ore mined. Primary ore is based on a cut-off of 0.25 g/t Au, and low grade ore is based on a cut-off of 0.2 g/t Au. The gold equivalent ("AuEq") formulae, applied for purposes of estimating AuEq grades and ounces, are as follows:

- Factor A (gold) = $1 / 31.10346 \times \text{metallurgical recovery (82\%)} \times \text{smelter recovery (99\%)} \times \text{refinery recovery (99\%)} \times \text{unit Au price (US\$1,250 / oz)}$
- Factor B (silver) = $1 / 31.10346 \times \text{metallurgical recovery (65\%)} \times \text{smelter recovery (98\%)} \times \text{refinery recovery (99\%)} \times \text{unit Ag price (US\$18.50 / oz)}$
- AuEq grade = $\text{Au grade} + (\text{Ag grade} \times [\text{Factor B} / \text{Factor A}])$
- AuEq ounces = $(\text{AuEq grade} \times \text{material tonnes}) / 31.10346$



Phase I Pilot Plant Production

"4,000oz Gold & 20,000oz Silver Recovered"

Pilot Plant Results:

- Final Gold Recoveries – 82% to Dore
- Physical and chemical aspects validated
- Three stage cone crushing successfully utilized
- Geotechnical results confirmed design parameters
- Results – Lower Shareholder Risk





Robust Economic Highlights

2015 Feasibility Study Base Case at US\$1,250/oz Gold

Annual Production	5,000 tpd
Mine Life	5 years ***
Strip Ratio	1.62 : 1
Average Gold Equivalent ("AuEq") grade*	0.93 grams per tonne
Recoveries to Doré	Gold 82% and Silver 65%
Gold Equivalent Ounces/yr (Avg. @5,000 tpd)	42,000 oz/yr
Initial Capital Costs (including indirects)	US\$33 million
Gold Equivalent Cash Cost (@5,000 tpd)	US\$552 /oz
All-in Sustaining Costs AuEq** (LOM)	US\$662 /oz
After-Tax NPV (\$1250 Au, 5%)	US\$60.3 million***
After-Tax IRR (\$1250 Au, 5%)	48% ***
After-Tax Payback Period	2.3 years

*Remaining Resource of +/- 200,000oz GOLD
to be Evaluated to Extend the LIFE OF MINE*

• Gold equivalent grades are defined in the footnotes to the Reserve Statement on page 9

**All-in Sustaining Costs ("AISC") as presented are defined by the World Gold Council ("WGC") less corporate G&A

*** The Feasibility Study mine plan was purposefully restricted by the physical constraints of keeping the consequent heap leach pad and waste dump volumes on the patented land. As a result, the Mineral reserves were physically defined, not economically defined.

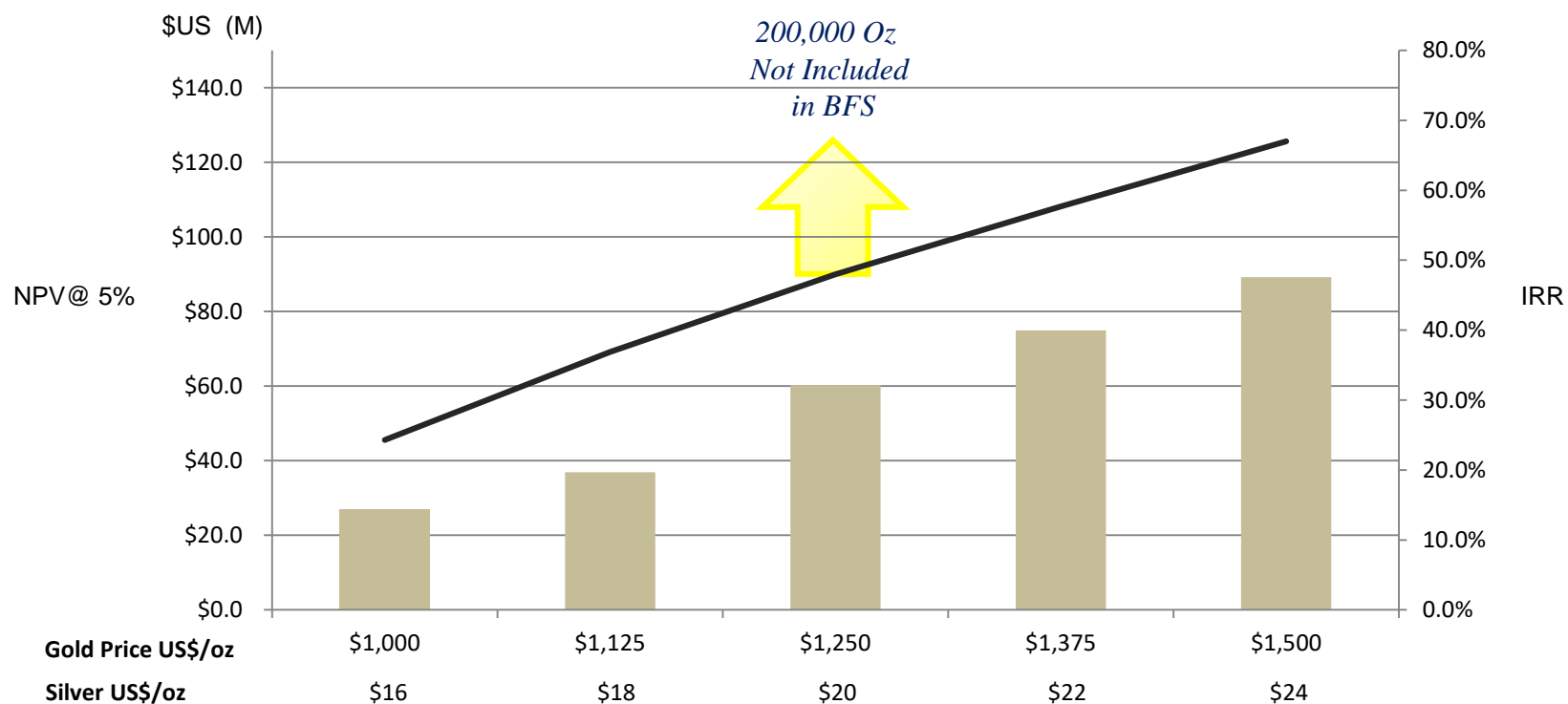


Sensitivity Analysis⁽¹⁾

2015 Feasibility Study Base Case at US\$1,250/oz Gold

Gold Price US\$/oz	\$1,000	\$1,125	\$1,250	\$1,375	\$1,500
Silver Price US\$/oz	\$16	\$18	\$20	\$22	\$24
Post-Tax NPV @ 5%	\$27.0M	\$44.9M	\$60.3M	\$74.9M	\$89.4M
Post-Tax IRR %	24.3%	36.9%	48.0%	57.7%	68.1%
Post-Tax Payback - Years	3.2	2.6	2.3	2.2	1.9

(1) 2015 Feasibility Study economics adjusted to include: (a) Patriot Gold NSR issued to acquire 100% of Moss Project (see news release dated May 26, 2015); and (b) current and anticipated tax pools, estimated as of September 30, 2016.

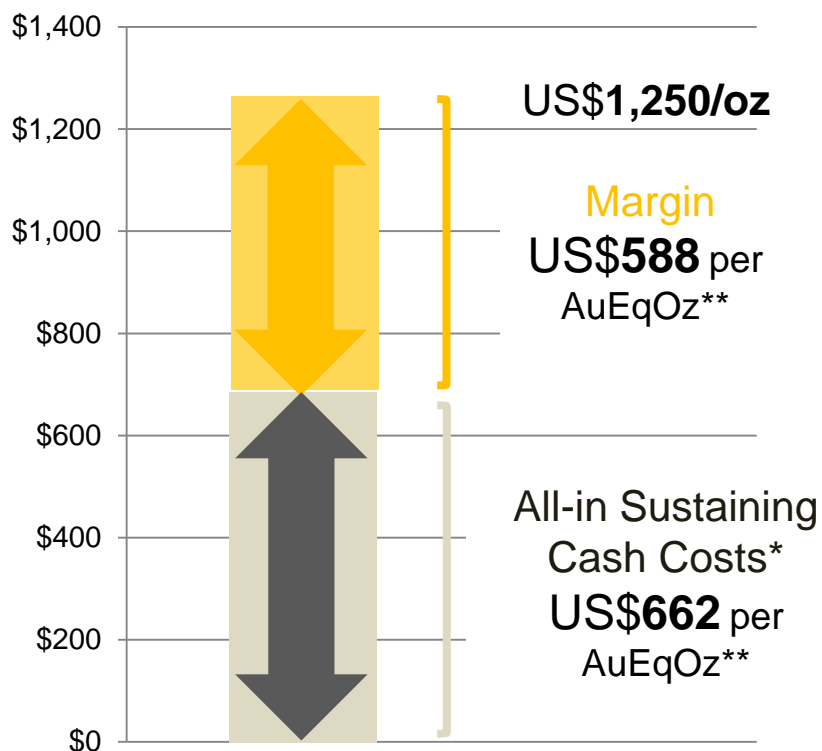




Low All-in Sustaining Cost & Cash Flow Metrics

2015 Feasibility Study Base Case at US\$1,250/oz Gold

Margin(US\$)



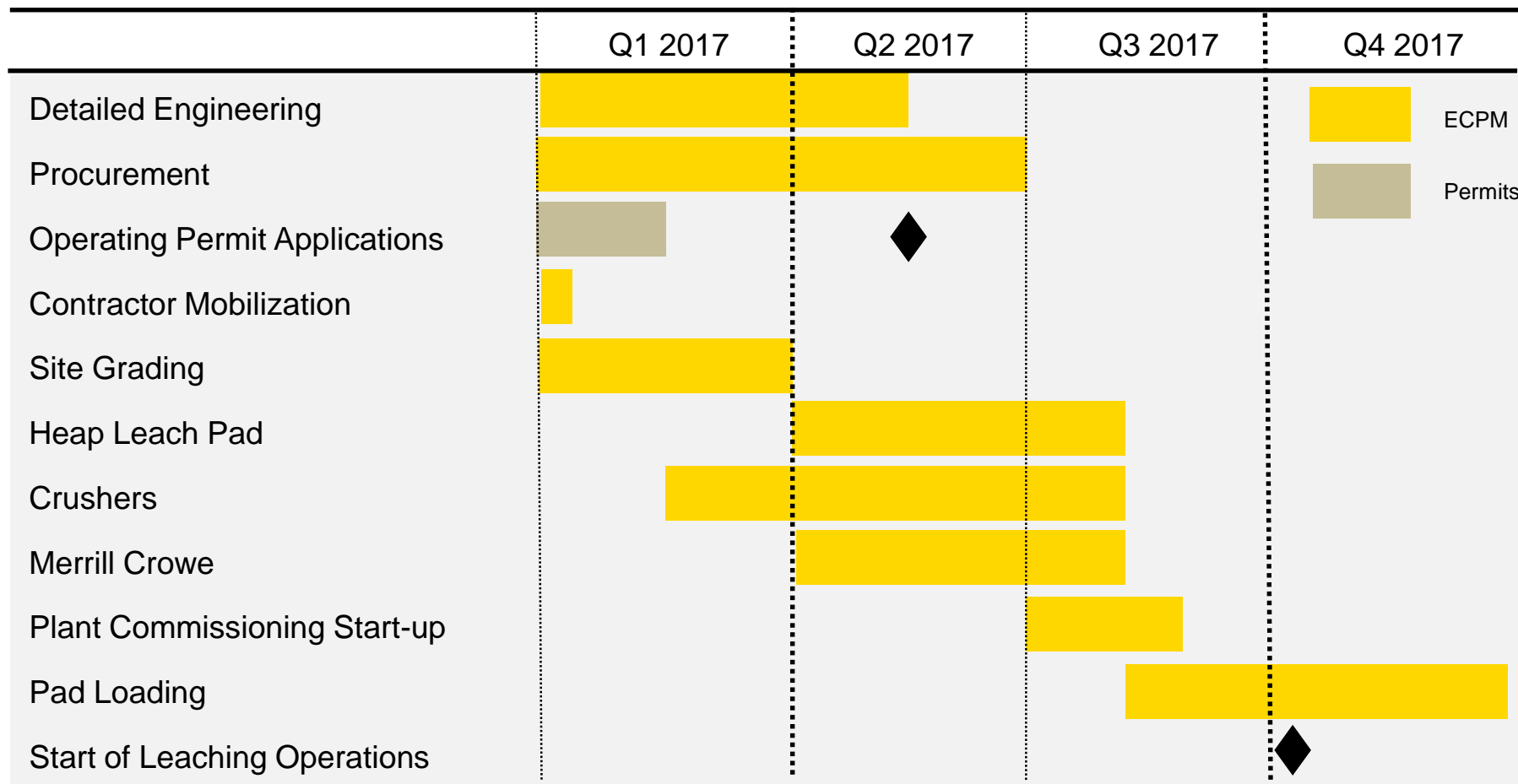
Cash Cost Summary

Cash Operating (incl. of Ag Credit)	\$552
Royalty, refining costs	\$79
Reclamation Costs	\$10
Sustaining Costs	\$20
Exploration Costs	\$1
All-In Sustaining Costs	\$662
Gold EQ Margin	\$588

All-in sustaining costs from the 2015 feasibility study adjusted to include the Golden Patriot royalty.



Moss Mine Construction Schedule





Capital & Operating Costs

Area	Capital (\$US)
Site General Costs	\$ 895,619
Mine Equipment	\$ -
Primary Crushing	\$ 1,914,626
Fine Crushing	\$ 4,311,434
Crushed Ore Transfer	\$ 1,479,804
Leach Pad Solutions	\$ 1,482,549
Leach Pad Earthworks/Liner	\$ 5,251,058
Pond Earthworks/Liner	\$ 1,202,534
Merrill Crowe	\$ 4,410,729
Refinery	\$ 1,726,463
Water Systems	\$ 1,062,094
Power Generation	\$ 838,330
Reagents	\$ 195,297
Ancillary	\$ 68,348
TOTAL DIRECT COSTS	\$ 24,838,885
INDIRECTS	\$ 4,339,641
CONTINGENCY	\$ 2,180,434
OWNER COSTS	\$ 1,650,000
TOTAL CAPITAL COST	\$ 33,008,960

Operating Cost - LOM

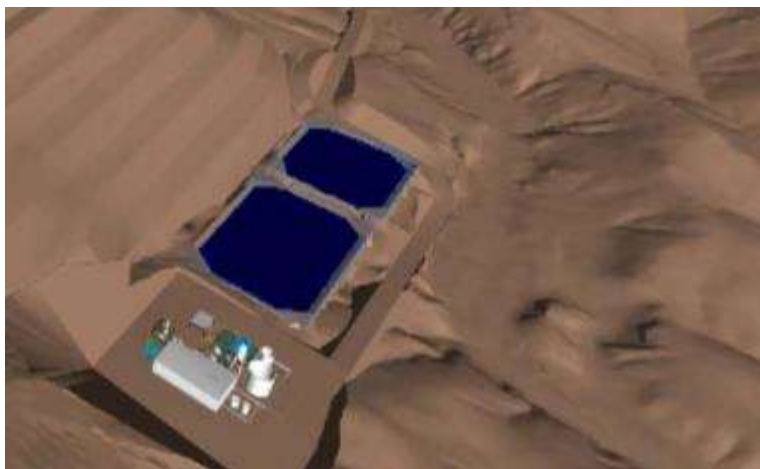
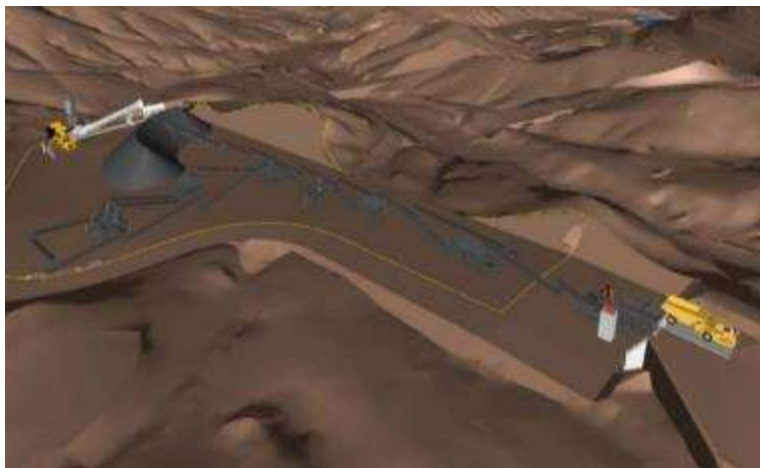
Mining	\$ 5.96
Process	\$ 6.65
General/Administration	\$ 0.95
TOTAL OPERATING COST	\$ 13.56

Gold Production Schedule

	1	2	3	4	5	6	Total
Au	17,227	37,086	41,581	30,589	37,378	11,383	175,244
Ag	135,300	316,372	366,006	288,554	349,330	106,322	1,561,884
AuEq	19,392	42,148	47,437	35,206	42,968	13,084	200,234

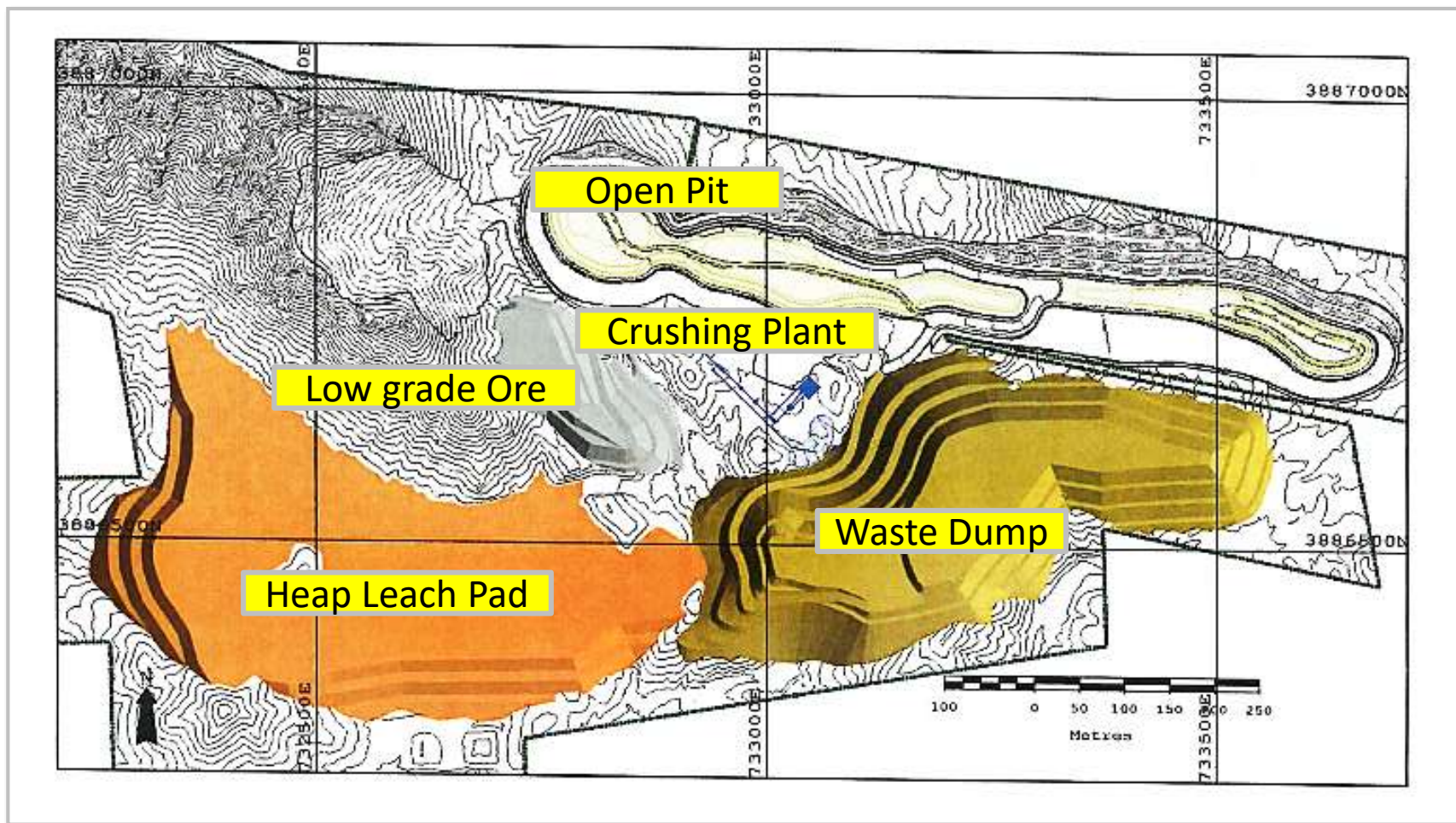


Facilities (Crushers, Merrill Crowe, Ponds, etc.)





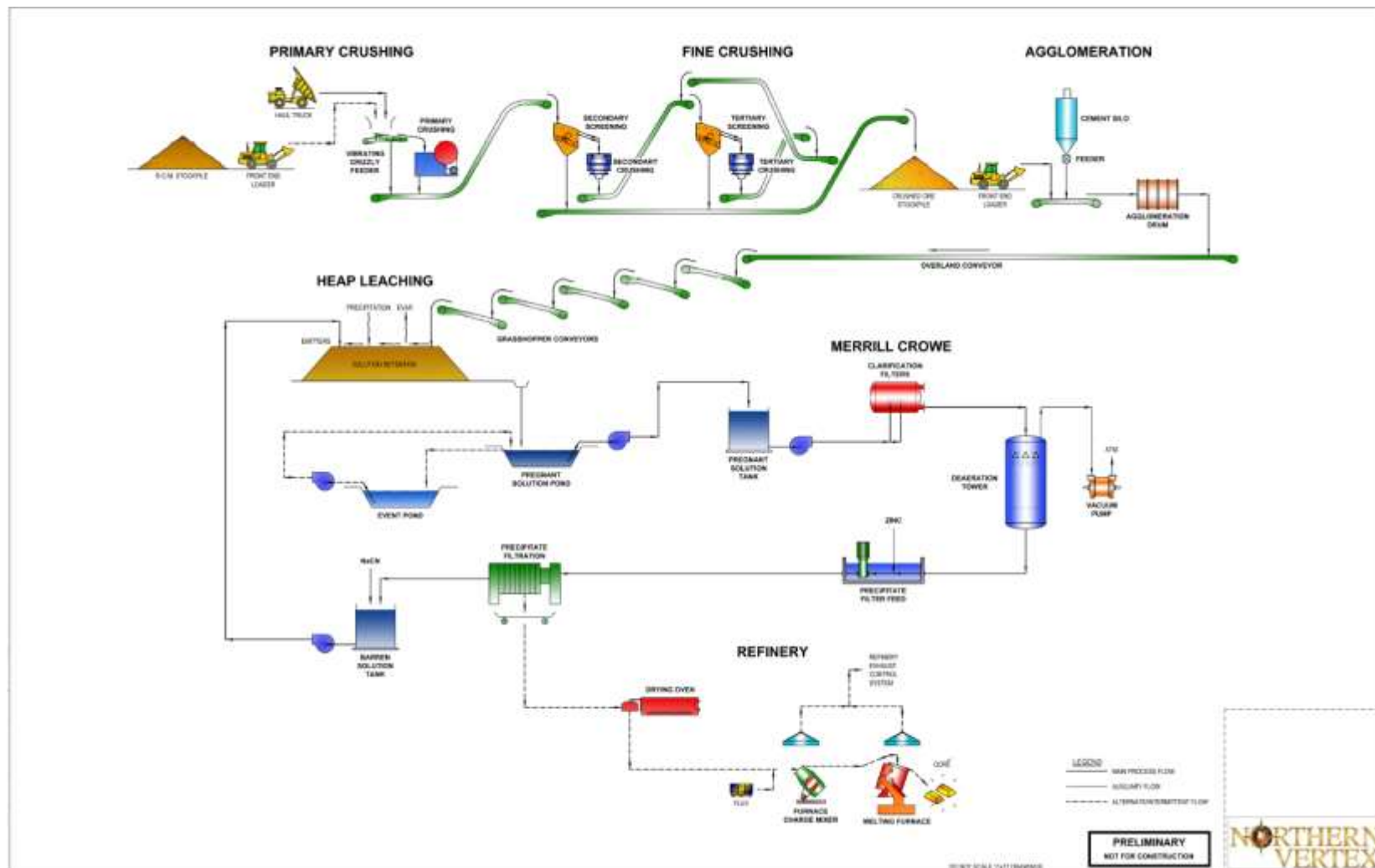
General Site Layout (Year 2)







Process Flow Sheet





NEE Powerline - “*Mine Optimization*”



Aggregate Supply

\$16M
Operational
Savings Over
5yrs

Boosts
After-Tax IRR
from Current
48%



Roadway Maintained



Job Creation

Profit
from Sale of
Waste Rock

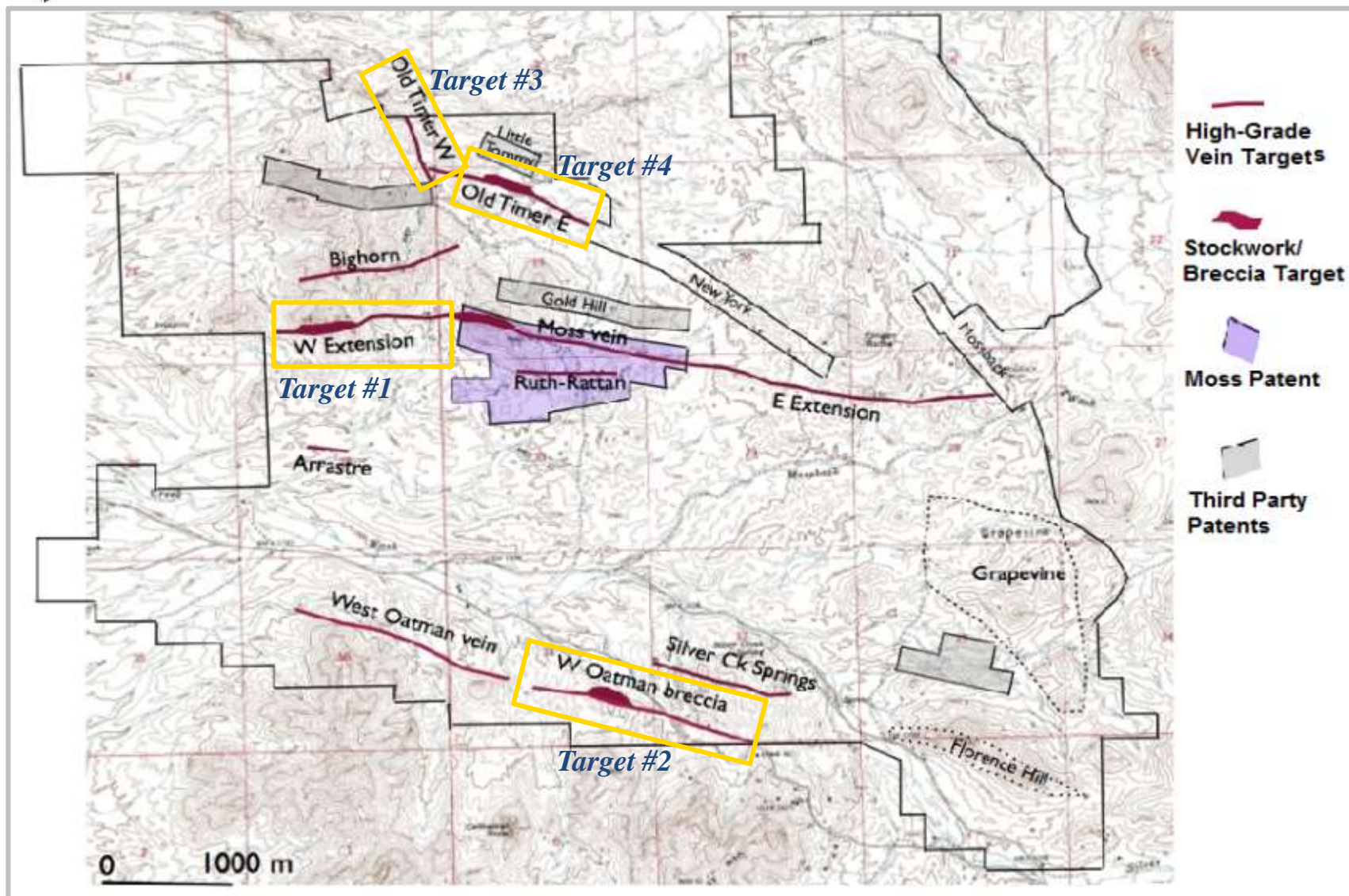
Improved
Infrastructure



Reduced Emissions



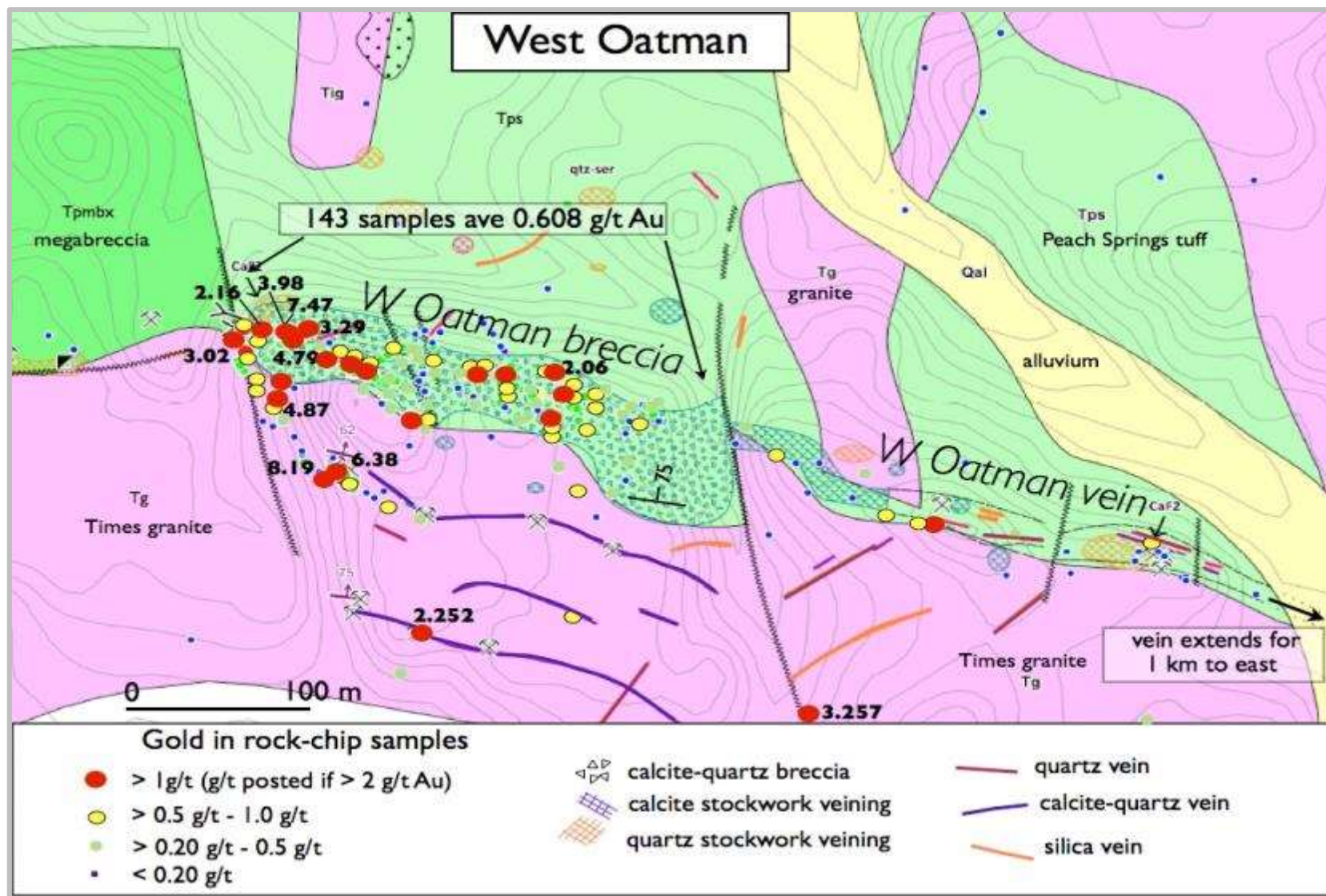
Oatman District Overview





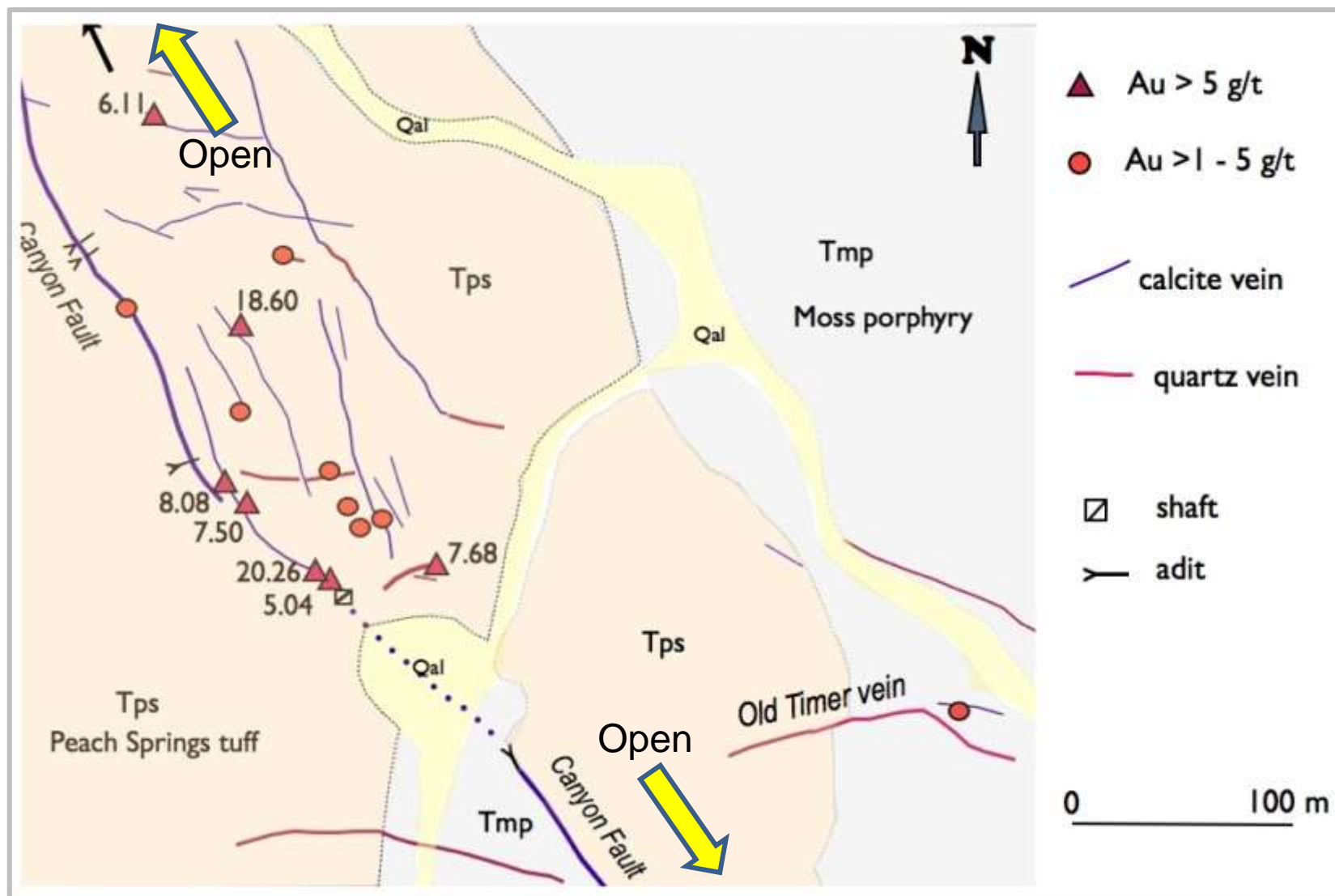


West Oatman - *Drill Target #2*



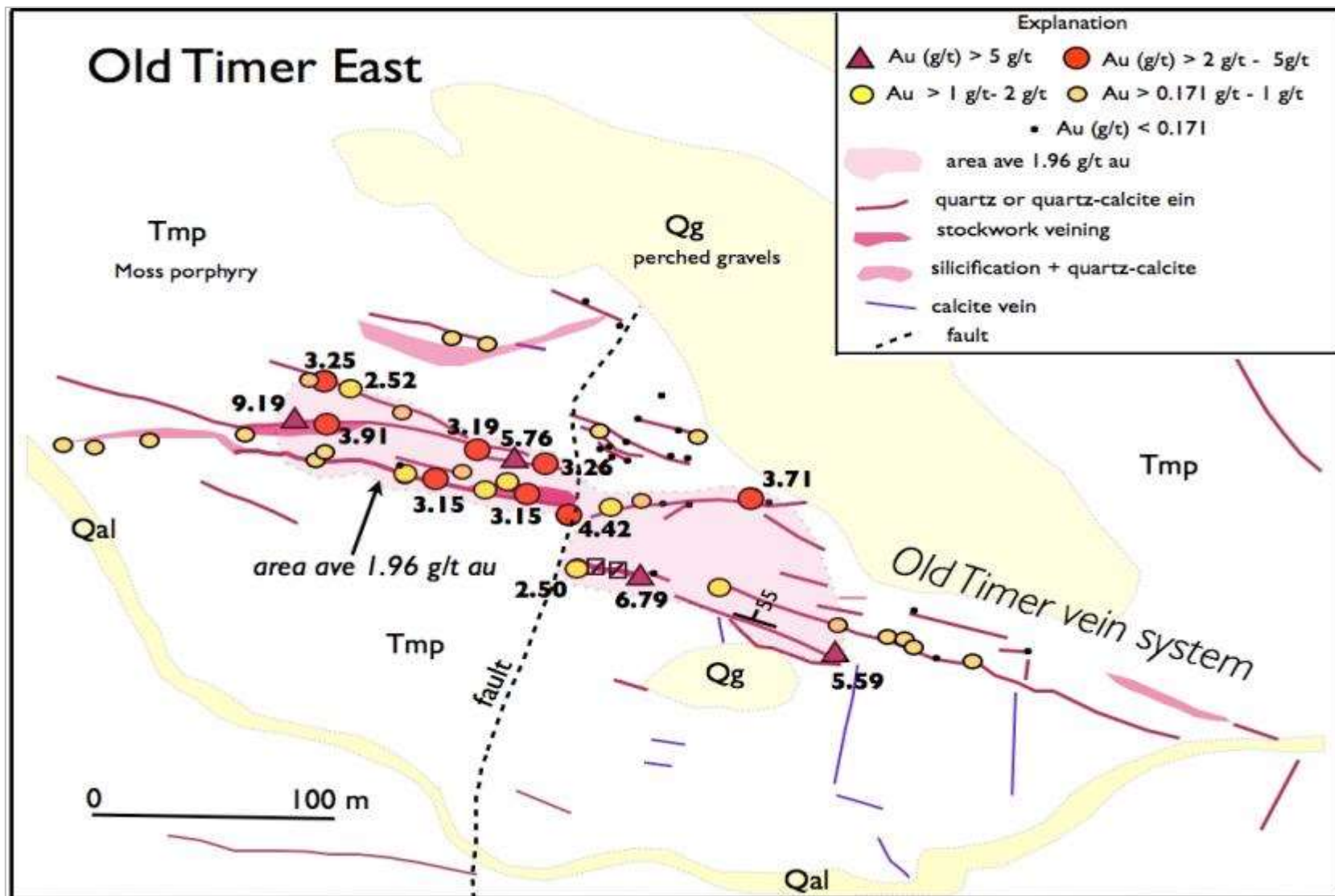


Old Timer West - *Drill Target #3*





Old Timer East - *Drill Target #4*



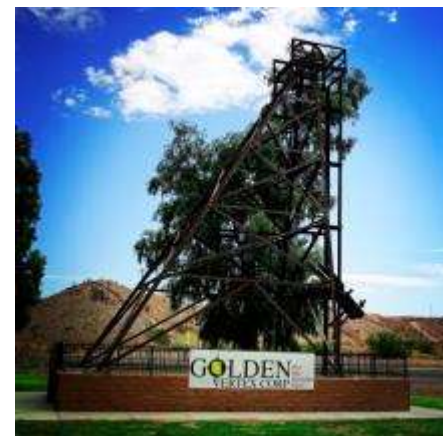


Corporate and Social Initiatives

Northern Vertex, through its US subsidiary, Golden Vertex, is endeavoring to be an organization recognized for its safety culture, community commitment, Tribal involvement, educational enhancement, open communication culture and transparency that will create a legacy for the stakeholders in the Bullhead City area for many years to come.



Official Opening/Ribbon Cutting Ceremony of Moss Mine Reactivation Project Pilot Plant, Bullhead City, AZ -August 14, 2013
Honorable Janice K. Brewer, Arizona Governor (Left side)



Relocation of the Moss Mine Historical Headframe



Relocation of the Lil' Red Schoolhouse to the Community Park, Bullhead City, AZ



Northern Vertex's Senior Mine Geologist, Sarah Clark speaking to students at Laughlin High school



Peer Comparison - Re-rating Potential

Company	Richmont	Gold Resource	Wesdome	Timmins	Atlantic	Northern V
Status	Production	Production	Production	Production	Construction	Construction
Location	Canada	Mexico	Canada	Mexico	Canada	USA
Market Cap. (C\$)	\$665	\$396	\$479	\$181	\$169	\$53
Enterprise Value (C\$)	\$599	\$373	\$457	\$153	\$181	\$58
Reserve (Moz Gold EQ.)	0.6	0.3	0.4	0.3	0.7	0.23
Mine Life ⁽¹⁾	6.5	5.6	7	4.2	7	5.2
2016 Production (Koz Gold EQ.)	102	54	57	95	87	42
2017 AISC (US\$)	\$975	\$1010	\$900	\$925	\$863	\$662
2018 P/CF	7.23X	N/A	10.73X	7.53	N/A	2.13X ⁽²⁾

Source: Company filings, Street research

Note: Northern Vertex metrics based on "NI 43-101 Technical Report, Feasibility Study Mohave County, Arizona", dated June 8, 2015.

1. Calculated as main producing asset reserves divided by 2016E production guidance; LOM average annual production used if 2016E production guidance not available.

2. Source: Bloomberg / Calculation for Northern Vertex based on first full year of average gold production



Northern Vertex Mining Corp.

MOSS PROJECT FUNDAMENTALS

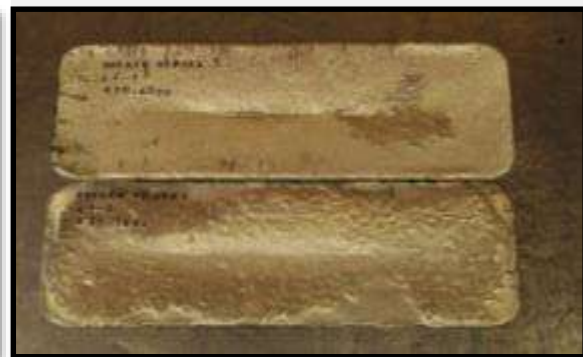
- Low strip, open pit, heap leach mining
- Resource of 435,000 Gold EqOz(M&I)
- Robust economics - 48% After-Tax IRR
- 200,000 Gold EqOz gold resources remaining for mine life extension

PILOT PRODUCTION DE-RISKS PROJECT

- Pilot production recoveries of 84% gold
- Confirmed – pit slope angles, cement consumption, strength of agglomerates
- Drilled over 450 holes in the Resource
- Established relationships with Community

EXPOSURE TO NEAR TERM CASH FLOW

- Premier mining jurisdiction - Arizona
- Established infrastructure
- Patented land
- Financeable – US\$20M Sprott;
Closed \$7.35M Convertible;
Negotiating US\$8.5M Equipment Loan



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