

MINE DESIGN, OPERATIONS & CLOSURE CONFERENCE 2012

Northern Vertex Mining Corp
Exploration, Permitting & Mine Design
Moss Project, NW Arizona

Presented by: Joe Bardswich, P.Eng.



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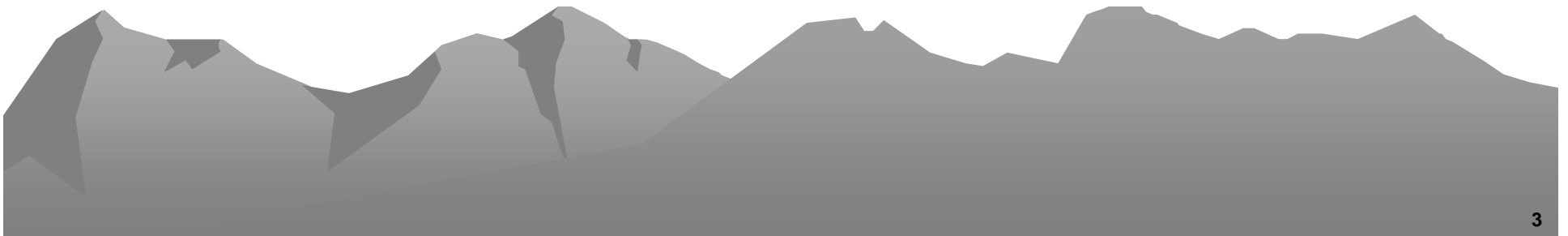
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Northern Vertex Vision

To Build a Mid-Tier Gold Producer



Business Strategy

- Acquire: 1.8 M oz Au Eqv
- Advance: NI 43-101
- Produce: Cash Flow
- Leverage: Grow Assets

The Team

- Ken Berry *B.Com*
 - President, CEO, Director
 - \$300M raised for public companies
- David Farrell *B.Com, LLB*
 - Director, \$25B in M&As at Endeavour
- Jim McDonald *BSc P.Geo*
 - Strategic Advisor, CEO of Kootenay Silver Inc.
 - Founder of National Gold, +Alamos = \$2.3B Mkt Cap

The Team (continued)

- Joe Bardswich *M.Eng. P.Eng*
 - Director, Project Manager
 - Operated Mines in Canada, US, Africa
- Bob Thompson *PhD, P.Eng*
 - Chief Geologist, 35 years field experience
 - Advisor to Deputy Minister, Natural Resources Canada

Execution

*1.8 Million Oz Gold Equivalent**



Acquisitions

- Moss Gold/Silver deposit:
March 2011
 - 590,000 oz gold equivalent
- LEMHI Gold Deposit:
September 2011
 - 1,200,000 oz (historic) gold equivalent

*Historic

Execution (continued)

Milestones: Moss

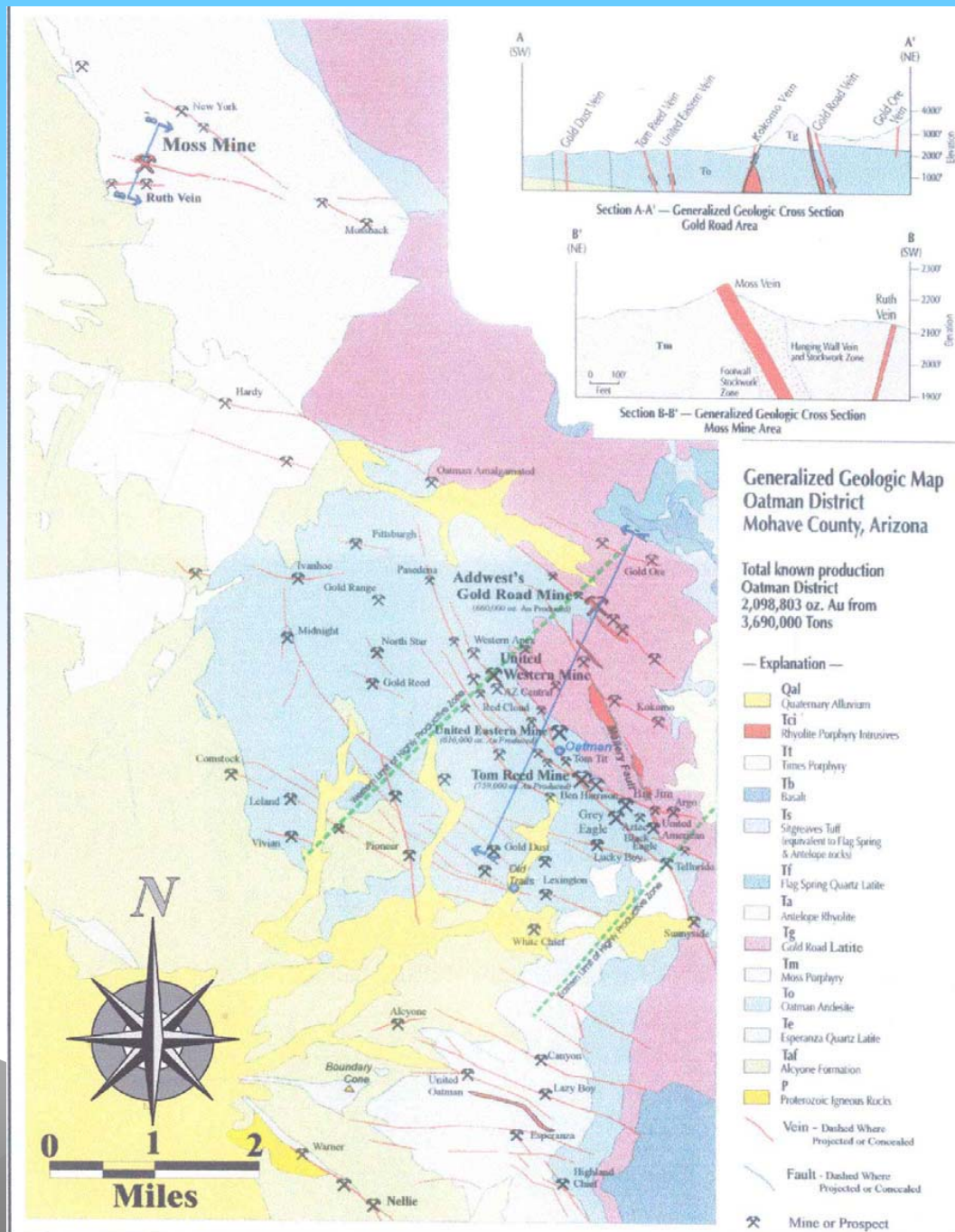


History of Moss Mine

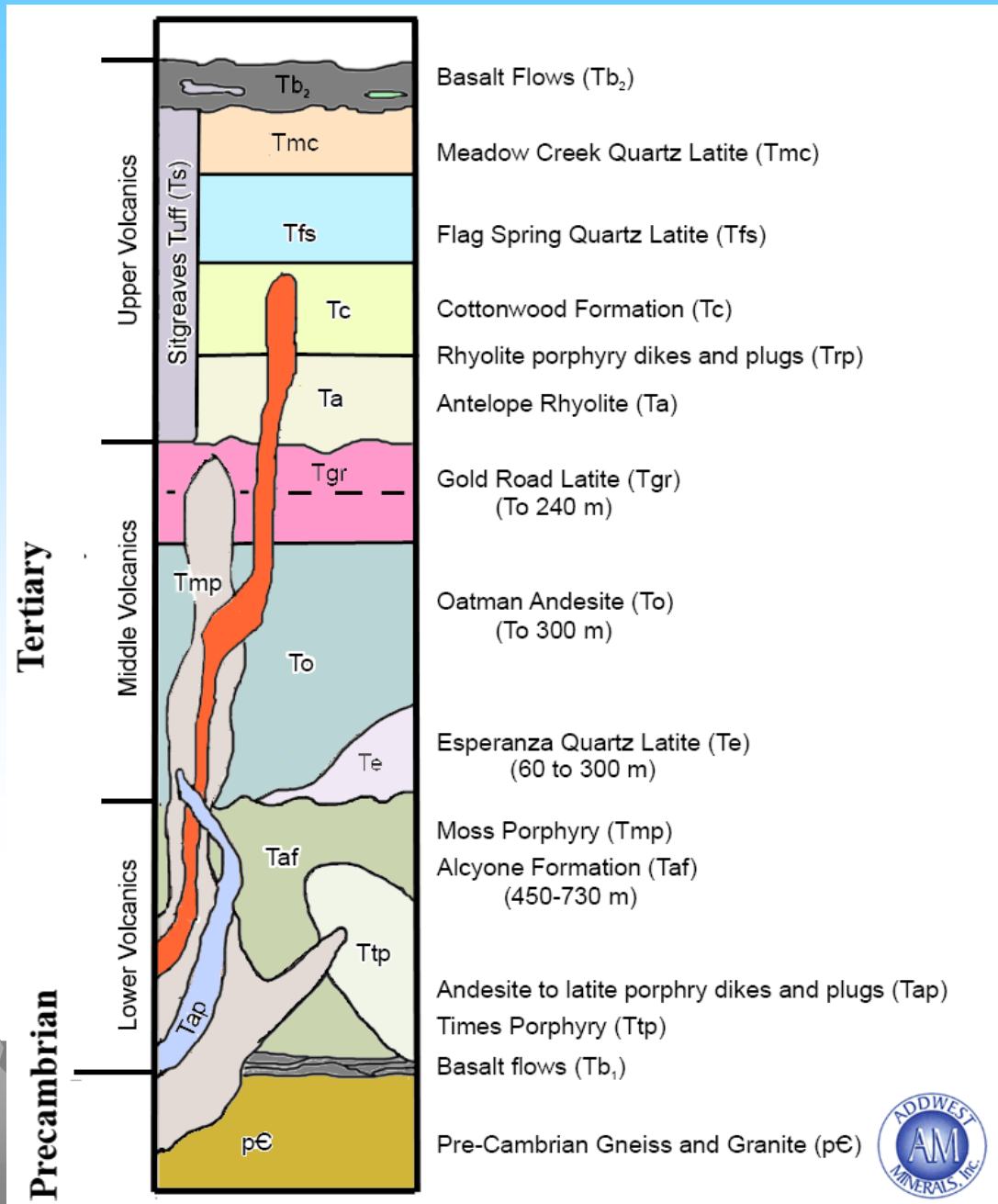
- Capt. John Moss, former miner and member of the California Volunteers was based at Fort Mohave (Union) during the Civil War. In 1864, he discovered a rich outcropping of high grade, and utilized his troopers to mine and recover gold valued at \$240,000 (about 12,000 ounces). First gold discovery in the Oatman (aka San Francisco) mining district.
- Only sporadic prospecting occurred over the next 50 or so years until the Tom Reed, United Eastern and Gold Road discoveries were made in the early 1900's. These three mines contributed 90% of the Oatman gold production.
- The Oatman mining district is historically one of the largest producers of gold from epithermal quartz veins in the western U.S., and its average grade (0.537 oz./ton Au) remains one of the highest of any significant gold mining district in the U.S.
- Very limited and sporadic production has occurred over the past century and a half at the Moss Mine.

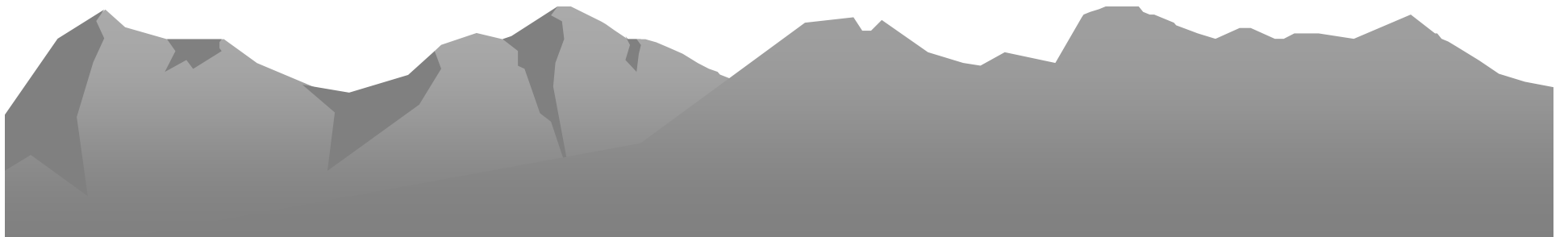


Oatman Geology



Regional Composite Generalized Stratigraphy of the Oatman (San Francisco) Mining District



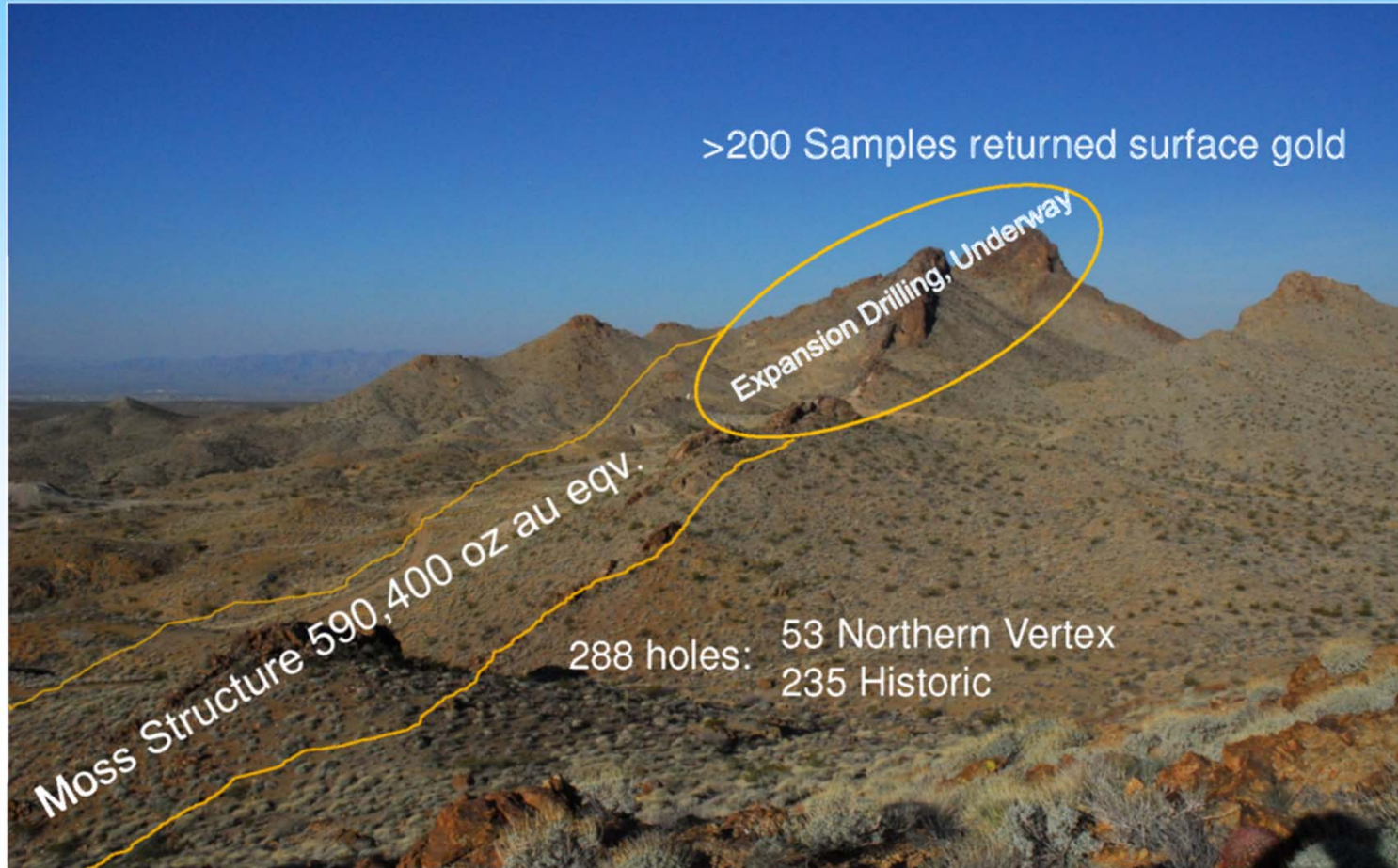


Northern Vertex Milestones At Moss

- Northern Vertex Mining Corp. optioned the Moss property from Patriot Gold Corp., and can earn a 70% interest by spending \$8 million over 5 years. Golden Vertex Mining Corp., a wholly owned US subsidiary is the operator.
- Favorable results from 208 drill holes have enabled an Independent 43-101 Resource Calculation conducted by the engineering firm Scott E. Wilson Consulting, Inc.
- The Resource calculation included 483,792 gold eq. ounces in the Indicated category and 106,628 gold eq. ounces in the Inferred category. This resource is amenable to modern bulk open pit mining and heap leach recovery methods.
- Mine design, metallurgical testing and environmental studies are ongoing.



Moss: Realizing Growth Potential



NI 43-101 Resource Calculation

Scott E. Wilson Consulting – October 2011

INDICATED RESOURCE at 0.3 g/t Au Cutoff					
Tonnes x 1,000	Grades (Grams/Tonne) ¹		Contained Metal (Ounces) ²		
	Au	Ag	Au	Ag	Au Equivalent ³
13,377	0.89	9.4	383,248	4,021,740	483,792 ⁴

INFERRED RESOURCE at 0.3 g/t Au Cutoff					
Tonnes x 1,000	Grades (Grams/Tonne) ¹		Contained Metal (Ounces) ²		
	Au	Ag	Au	Ag	Au Equivalent ³
4,731	0.55	6.2	83,124	940,164	106,628 ⁴

¹ Grams/Tonne = grams / metric tonne;

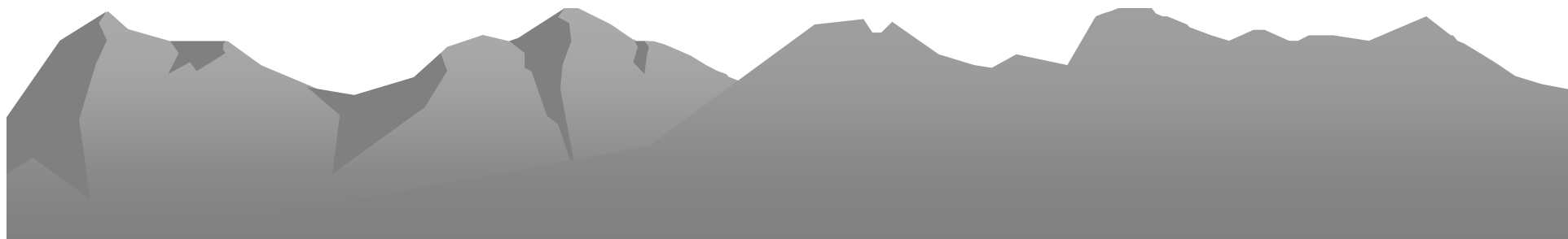
² ounces = troy ounces / short ton

³ AuEq (ozs) = Au (ozs) + 1/40th Ag (ozs)

⁴ Assumes 100% metallurgical recovery

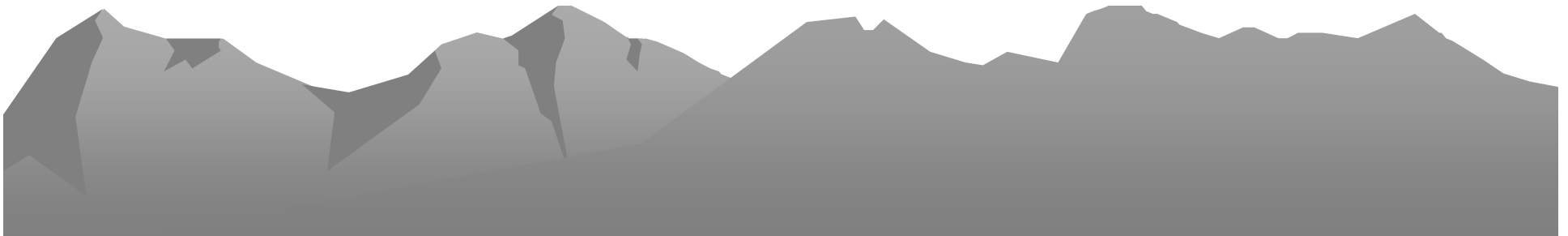
Summary of Exploration to Date

- Historically 305 drill holes 54,390 feet
- Typical grades 0.015 oz/ton to 0.088 oz/ton gold equivalent
- Mineralization is contained within a steep to moderate dipping vein and vein stockwork system in true widths up to 45 feet
- Strike of 5000 feet and an average depth of near 200 feet (limited drilling has traced mineralization to 800 feet)
- Open to depth and along strike
- Vertex has drilled 107 holes, footage of 40,072' (12,214 meters)
- There is no assurance that further exploration will result in the discovery of an economic mineral resource



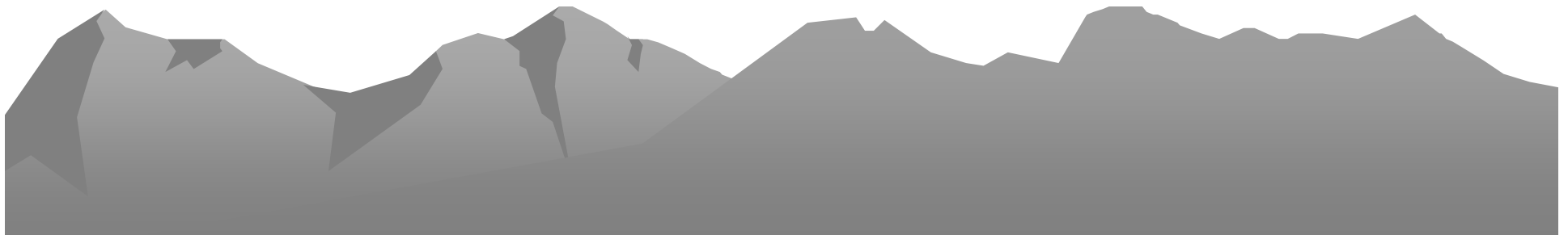
Metallurgical

- Column tests have shown recoveries in the order of 60% for gold and 40% for silver with a fine crush – 3/8 inch
- Scoping Study indicates economic operation with open pit / heap leach scenario
- +90% recovery for Au and Ag if grinding to 80% - 200 mesh
- There is a zone of higher grade that could be more economic if a mill were built



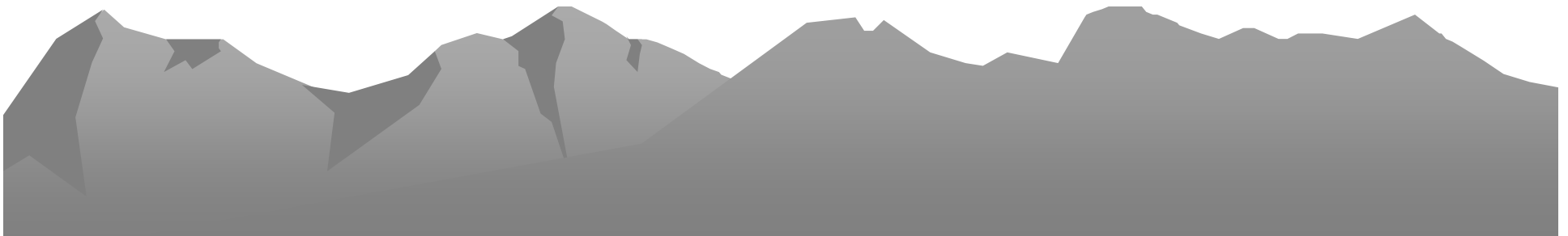
Permitting

- Junior company dilemma – investors want production, not another exploration play that drags on forever, but how do you finance production if there are long permitting lead times and in quoting a U.S. President “there is no such thing as a shovel ready project”.
- Moss has large block of patented claims (14) but it is probably not possible to restrict open pit heap leach or mill / tailings pond operations to the private land
- Therefore BLM + NEPA and the attendant time delays
- Also require Arizona DEQ Aquifer Protection Permit

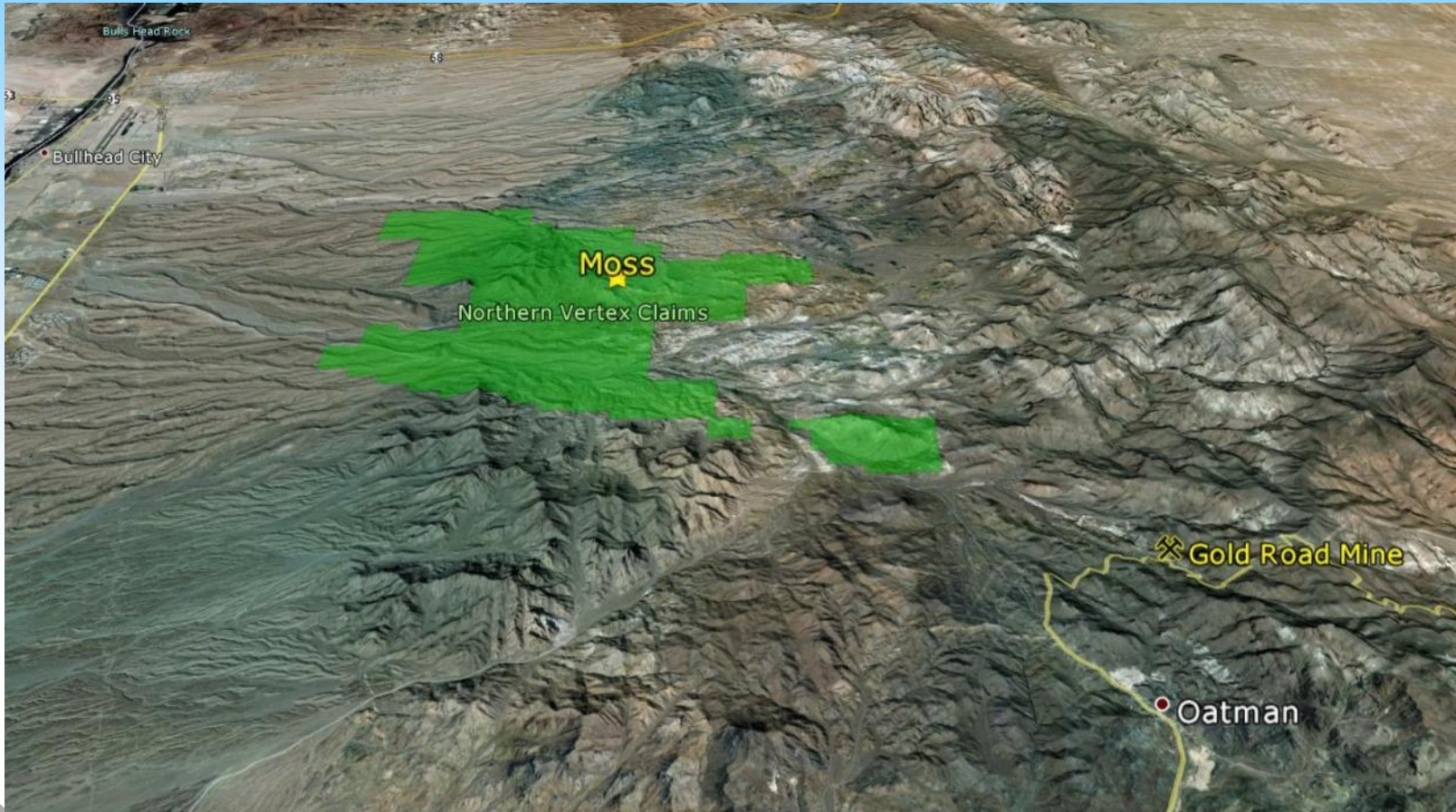


Speculation

- Possible early production from higher grade material “IF”
- Stay on private ground
- Do not trigger the Arizona APP requirement
- No “bad actors” in the ore
- Fortunate enough to find a permitted mill within 200 miles



Proximity of Moss to Oatman / Gold Road



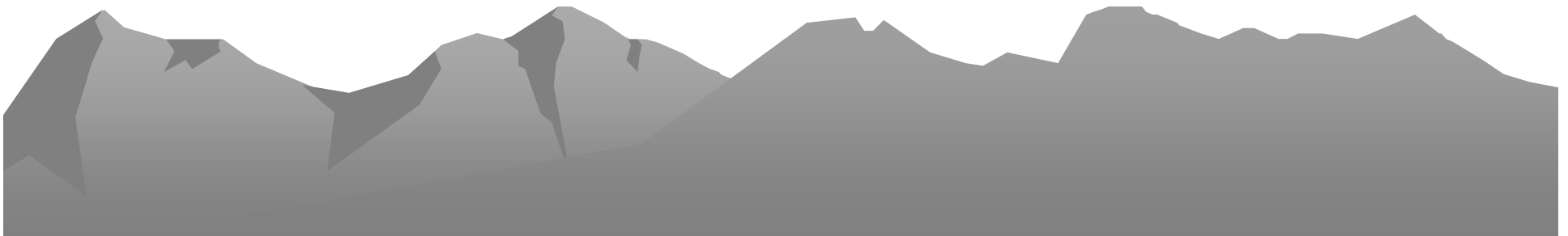
Close-up Google View of Gold Road Mine



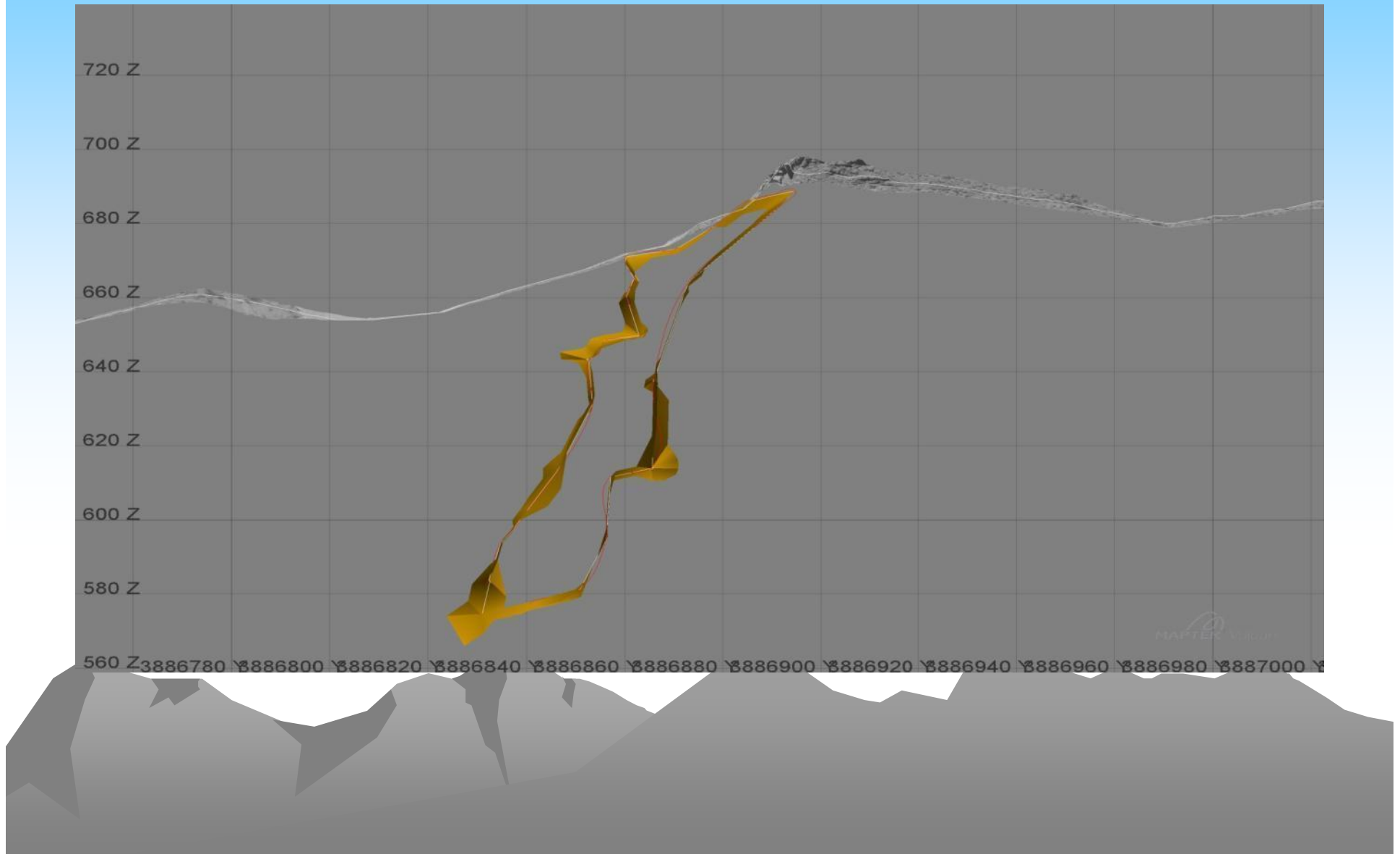


Gold Road Mill

- 500 tpd expanding to 550 tpd
- Carbon in pulp cyanide leach
- Crushing circuit can handle 100 tph
- Grinding to 70% - 325 mesh
- Filtered and dry stacked tailings
- 8 road miles from the Moss

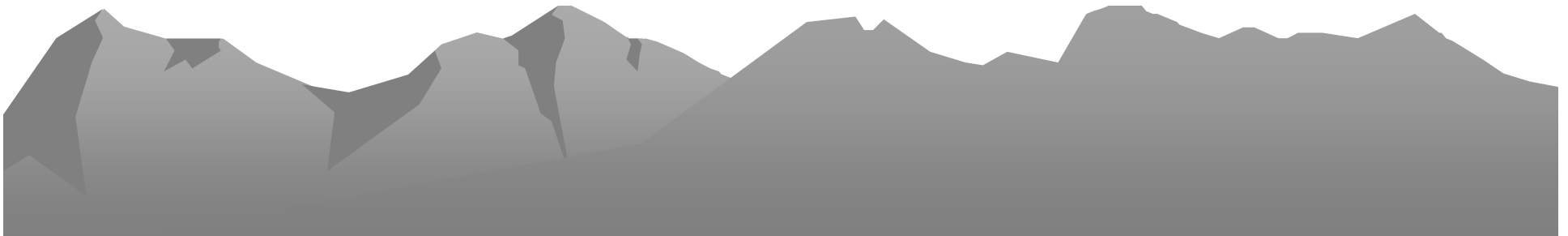


High Grade at Moss



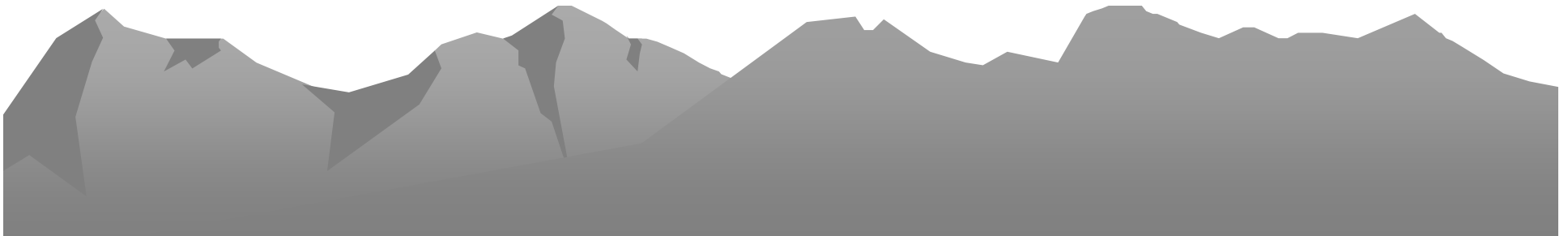
Daylight Quarries

- Stay above water table
- Do not create water catchments – “daylight the quarry floors”
- Do not stockpile
- Apply for exemption from Arizona Aquifer Protection Permit
- Non acid generating ore or waste
- No “bad actors”



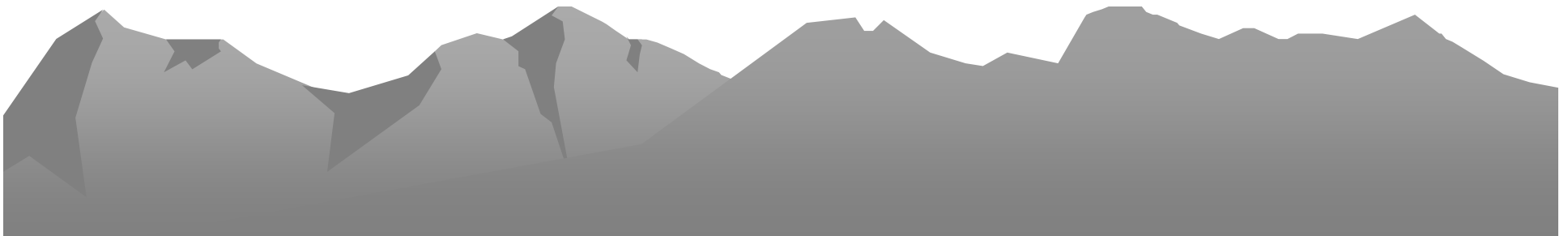
Potential Underground

- Low grade but wide zones conducive to low cost bulk mining methods
- Will need Arizona Aquifer Protection Permit
- Will need additional deep drilling to define extraction limits
- Two other sub-parallel veins to the main Moss vein including the Discovery vein & Ruth vein
- Only one hole in each including #136 – 5 feet of 0.5 opt.



Moving Forward

- Open discussions with Mohave Desert Minerals LLC, owners of the Gold Road Mine / Mill
- Consult with Arizona DEQ – additional environmental testing if required
- Drill definition of high grade in the daylight quarries
- Drill definition of potential underground high grade in main Moss structure
- Explore Ruth and Discovery veins



Questions?

Q&A

