

## Advanced Geologic Exploration, Inc.

*Scientists of the Earth™*

PO Box 1956 • Chester, CA 96020 • Office: (530) 258-4228 • Fax (530) 258-4339 • [www.advancedgeologic.com](http://www.advancedgeologic.com)

---

January 18, 2017

To Whom It May Concern:

**RE: 2017 Resource Status Update – Poker Game Mine, Gold Point Mining District,  
Esmeralda County, Nevada**

In June 2013, Advanced Geologic Exploration, Inc. produced a Phase 1 Estimated Resource Potential Report for the Poker Game Mine in the Gold Point Mining District of Esmeralda County, Nevada. The Poker Game Mine is a set of 50 individual  $\pm 20$ -acre federal lode mining claims within seven claim blocks totaling  $\pm 995$  acres in mining-friendly Esmeralda County, Nevada. The claims are active and valid for the 2017 mineral year. The Poker Game Mine is located along the central and southwestern portions of Slate Ridge within the Gold Point Mining District, which is noted for rich, highgrade gold and silver veins, as well as the base metal suites of copper, lead, and zinc. The Poker Game Mine strategically claims the mineral rights of several historic and modern-day workings, including the famous Gold Bug Mine that has an accumulated ore stockpile of about 20,000 tons.

Assessment of the recovery techniques continued, primarily concentrating on recovery of gold without chemicals and via by gravity separation (water). It was discovered that free gold could be liberated from the rock if the rock was crushed small enough (100 – 150 mesh). Two independent sources confirmed that precious metal could be recovered with good results using commercial-grade gravity separation equipment (Appendix B). These test results prompted an onsite series of tests whereby the goals included processing of 10 tons of ore and recovering 5 ounces of gold per day. The tests were generally successful in recovering precious metal, however, fell well short of production goals due to a number of reasons. A quote was obtained for one ton-per-hour processing plant to operate onsite (Appendix C). A permit to conduct these processing activities in 2017 is in progress and confidence is high for successful results.

In September 2016, detailed investigation was conducted on the exposed east face of the Main Vein to determine both the ore grade of the veins and vein systems and which individual veins contained highgrade gold. Of the 20 samples collected and assayed, nine showed a third of an

ounce-per-ton gold or more, including two over three-quarters of an ounce-per-ton gold and one over one ounce-per-ton gold (Appendix A). Four samples were taken of general country rock surrounding the veins and showed low to trace quantities of gold. Encouraging from these results was that the low assays were still within acceptable levels for heap-leach applications, possibly suggesting a large low-grade bulk tonnage at the mine.

Discussions were held with two commercial chemical leaching facilities, one near Las Vegas, Nevada and the other in Phoenix, Arizona. Both facilities requested ore “concentrates” rather than raw ore. This process required an onsite pre-processing of the ore that would create a higher-grade product, which would lower overall leaching costs. This would be an ideal interim solution for ore processing that requires less initial capital and a sooner return on the investment. Therefore, if the one ton-per-hour processing plant is utilized, the purpose will be to increase the capacity such that highgrade concentrates are recovered and sent to the commercial chemical leaching facilities.

The success of a gravity separation process sparked ideas of using outside contractors for ore processing. “Toll Mills” were common in Nevada because equipment was expensive and the mines were in remote locations with limited access. There are two toll mills within 200 miles of the mine and both were approached for outside milling contracts. Due to the relatively low gold prices in 2016, both mills have tabled plans of processing ore from the Poker Game Mine. With the increased in gold prices of late, this option may be revisited during the interim.

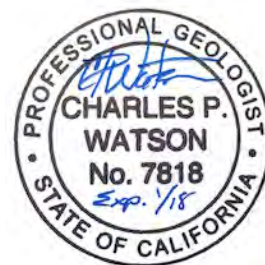
In summary, confidence is high to bring an onsite state-of-the-art ore processing facility that is efficient, economical and profitable to mine the precious metal resource at the Poker Game Mine. All timeframes appear to be coalescing to commence in 2017.

Thank you for your interest in this project. If you have any questions or need further information, please feel free to contact me at your convenience.

Sincerely,



Charles P. Watson, Chief Geologist  
California Professional Geologist #7818



# **Appendix A**

**September 2016 Gold & Silver Assay Results**

**of the**

**Poker Game Mine Main Vein,**

**Plus Photographs of Sample Locations**

**Advanced Geologic Exploration, Inc.**

PO Box 1956 • Chester • CA • Office: (530) 258-4228 • Fax (530) 258-4339 • [www.advancedgeologic.com](http://www.advancedgeologic.com)



ALS USA Inc.  
 4977 Energy Way  
 Reno NV 89502  
 Phone: +1 775 356 5395 Fax: +1 775 355 0179 www.alsglobal.com

To: **ADVANCED GEOLOGIC EXPLORATION**  
**P.O. BOX 1956**  
**CHESTER CA 96020**

Page: 1  
 Total # Pages: 2 (A)  
 Plus Appendix Pages  
 Finalized Date: 20- OCT- 2016  
 This copy reported on  
 21- OCT- 2016  
 Account: ADVGEO

**CERTIFICATE RE16172578**

Project: Poker Geme Mine

This report is for 20 Rock samples submitted to our lab in Reno, NV, USA on 10- OCT- 2016.

The following have access to data associated with this certificate:  
 CHARLES WATSON

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 22c	Crush entire sample > 70% - 19 mm
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME- GRA22	Au Ag 50g FA- GRAV finish	WST- SIM

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project. Statement required by Nevada State Law NRS 519

To: **ADVANCED GEOLOGIC EXPLORATION**  
**ATTN: CHARLES WATSON**  
**P.O. BOX 1956**  
**CHESTER CA 96020**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Hanachi Bouhenchir, Lab Manager



ALS USA Inc.  
 4977 Energy Way  
 Reno NV 89502  
 Phone: +1 775 356 5395 Fax: +1 775 355 0179 www.alsglobal.com

To: **ADVANCED GEOLOGIC EXPLORATION**  
**P.O. BOX 1956**  
**CHESTER CA 96020**

Page: 2 - A  
 Total # Pages: 2 (A)  
 Plus Appendix Pages  
 Finalized Date: 20- OCT- 2016  
 Account: ADVGEO

Project: Poker Game Mine

**CERTIFICATE OF ANALYSIS RE16172578**

Sample Description	Method Analyte Units LOR	WEI- 21	ME- GRA22	ME- GRA22
		Recvd Wt. kg	Au ppm	Ag ppm
		0.02	0.05	5
PGM- MV- 1		1.86	11.35	<5
PGM- MV- 2		1.60	24.9	<5
PGM- MV- 3		2.22	16.95	<5
PGM- MV- 4		2.38	13.20	<5
PGM- MV- 5		1.98	11.70	<5
PGM- MV- 6		1.50	0.41	<5
PGM- MV- 7		1.86	4.94	8
PGM- MV- 8		2.56	5.16	<5
PGM- MV- 9		2.34	2.59	<5
PGM- MV- 10		2.22	5.22	<5
PGM- MV- 11		2.06	0.10	<5
PGM- MV- 12		2.56	0.08	<5
PGM- MV- 13		2.50	29.8	<5
PGM- MV- 14		2.86	16.85	<5
PGM- MV- 15		2.70	16.35	<5
PGM- MV- 16		2.72	31.8	<5
PGM- MV- 17		1.78	0.36	<5
PGM- MV- 18		2.28	3.91	<5
PGM- MV- 19		2.34	0.20	<5
PGM- MV- 20		2.40	<0.05	<5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS USA Inc.  
4977 Energy Way  
Reno NV 89502  
Phone: +1 775 356 5395 Fax: +1 775 355 0179 www.alsglobal.com

To: **ADVANCED GEOLOGIC EXPLORATION**  
**P.O. BOX 1956**  
**CHESTER CA 96020**

Page: **Appendix 1**  
Total # Appendix Pages: **1**  
Finalized Date: **20- OCT- 2016**  
Account: **ADVCEO**

Project: Poker Game Mine

**CERTIFICATE OF ANALYSIS RE16172578**

	<b>CERTIFICATE COMMENTS</b>								
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Reno located at 4977 Energy Way, Reno, NV, USA.</p> <table><tr><td>CRU- 22c</td><td>CRU- 31</td><td>LOG- 22</td><td>ME- GRA22</td></tr><tr><td>PUL- 31</td><td>PUL- QC</td><td>SPL- 21</td><td>WEI- 21</td></tr></table>	CRU- 22c	CRU- 31	LOG- 22	ME- GRA22	PUL- 31	PUL- QC	SPL- 21	WEI- 21
CRU- 22c	CRU- 31	LOG- 22	ME- GRA22						
PUL- 31	PUL- QC	SPL- 21	WEI- 21						



East Face of the Main Vein with tags showing sample locations.



Detail of East Face of the Main Vein with tags showing sample locations.  
The Central Core is above the dog and the West Vein is to the Right.





Detail of the Central Core with tags showing sample locations.

Samples #1 - #12.

The Gold Bug Mine stockpiles are predominately composed of Central Core material.

**Advanced Geologic Exploration, Inc.**

PO Box 1956 • Chester • CA • Office: (530) 258-4228 • Fax (530) 258-4339 • [www.advancedgeologic.com](http://www.advancedgeologic.com)



Detail of West Vein on East Face of Main Vein with tags showing sample locations.  
Samples #14 - #16.

# **Appendix B**

## **Photographs of March 2016**

### **Bulk Testing Activities**

\*\*\*\*\*



Bulk testing activities of Poker Game Mine ore, March 2016. Ore was crushed and screened to 30 mesh, mixed into a slurry, pumped into a spiral separator and concentrates ran over a shaker table. Approximately 4.5 tons of ore was processed.



Crushed ore mixed into a slurry and pumped to a spiral separator.



Concentrates from spiral separator are run across a 16-foot shaker table.



Coarse-grained gold caught in spiral separator trap. Notice the flattened texture from the roller mill crushing process - like pennies on a railroad track. This indicates the Poker Game Mine contains coarse-grained gold, which requires an addition to a production-grade processing facility.

**Advanced Geologic Exploration, Inc.**

PO Box 1956 • Chester • CA • Office: (530) 258-4228 • Fax (530) 258-4339 • [www.advancedgeologic.com](http://www.advancedgeologic.com)



A portion of the fine gold concentrates. Gold is spread throughout the sample. Better recovery would occur if the ore was uniformly crushed to -100 mesh. The coarse-grained gold would be recovered in a special circuit before going to the shaker table.

**Advanced Geologic Exploration, Inc.**

PO Box 1956 • Chester • CA • Office: (530) 258-4228 • Fax (530) 258-4339 • [www.advancedgeologic.com](http://www.advancedgeologic.com)





Detail of fine gold concentrates.

## **Appendix C**

### **Mount Baker Mining and Metals, LLC**

\*\*\*\*\*

### **One Ton Per Hour Turn-Key Processing Plant**

**Estimate: \$93,810.00\***

**This plant can be expanded to 2-4 tons-per-hour for ~15% more.**

**\*Price subject to change.**



## Mt. Baker Mining and Metals, LLC

5783 Aldrich Rd  
 Bellingham, WA 98226 USA  
 Email: MBMMLLC@gmail.com

## Equipment Quote

<b>Date:</b>	September 12, 2016
<b>Expires:</b>	5 days

Customer:	
<b>Name:</b>	Charlie Watson
	Advanced Geologic
<b>Address:</b>	
	Batty, NV (mine site)
<b>Email:</b>	<a href="mailto:cwatson@advancedgeologic.com">cwatson@advancedgeologic.com</a>
<b>Phone:</b>	530-375-0125, 530-258-4228

Quote/Project Description:
One ton per hour turn-key ore processor, with optional accessories and spare parts list. Details below on equipment and specifications.

Line Item	Description	Quantity	Unit price	Line Total
	<b>Equipment Details:</b>			
	<b>Turn-key ore processor - 1 ton per hour system</b>	1	\$78,700.00	\$ 78,700.00
	List of components and specifications:			
	<b>8" x 12" jaw crusher module capable of 2+ tons/hr at &lt;3/4" discharge, includes:</b>			
1	1+ yard vibrating feeder/hopper, 1/3 hp, 3 phase, 230V, 60Hz			
2	8" x 12" jaw crusher with 10hp, 3 phase, 230V, 60Hz			
3	16" wide inclined conveyor, 2 hp, 3 phase, 230V, 60Hz			
	All integrated on a structural steel stand			
	Electric control panel, starter, breaker, and wiring to be provided by customer			
	<b>Fine ore hopper/feeder module for &lt;1" feed, up to 5 tons per hour, includes:</b>			
4	1+ yard fine ore hopper			
5	Electromagnetic metering feeder, single phase, 220V			
6	16" wide inclined conveyor, 2 hp, 3 phase, 230V, 60Hz			
	All integrated on a structural steel stand			
	Electric control panel, starter, breaker, and wiring to be provided by customer			
	<b>Hammer mill module, 1 ton per hour capacity with 3mm slots, includes:</b>			
7	16" x 12" hammer mill, 15hp, 3 phase, 230V, 60Hz			
8	Elevated stand to mount on customer's concrete foundation			
9	Inlet chute feeding hammer mill, outlet chute feeding nugget trap sluice			
10	6" wide x 3' long nugget trap sluice (feeds ball mill)			
	Electric control panel, starter, breaker, and wiring to be provided by customer			
	<b>4' x 8' shaker table module, 1 ton per hour capacity, includes:</b>			
11	4' x 8' shaker table, adjustable stand for table tilt, single phase, 120/220V, 50/60Hz			
12	Water manifold and distributor trough			
	<b>Ball Mill, 3' dia x 10' L, 13,000lbs with balls, delivery in 10-12 weeks includes:</b>			
13	Full charge of balls, 45hp, 3 phase electric motor, drive and stand. Throughput is:			
	1.5 tons/hr at 65 mesh discharge			
	1.0 tons/hr at 100 mesh discharge			
	0.5 ton/hr at 200 mesh discharge			
	All above with 1/4"-1/2" feed size, typical quartz ore			
	Electric control panel, starter, breaker, and wiring to be provided by customer			
	<b>Optional Accessories (price not included in basic system)</b>			
14	16' Spiral Classifier/dewatering screw	1	\$ 8,400.00	\$ 8,400.00

<b>Recommended spare parts (prices not included in basic system):</b>				
15	Spare 16" x 12" rotor assembly with pulley, bearings, shaft, rotors, and hammers (1/2 hour change-out)	1	\$ 2,550.00	\$ 2,550.00
16	Replacement hammer set, 16" x 12" HM (replace every 30-40 hours of operation)	4	\$ 395.00	\$ 1,580.00
17	Replacement screens AR400 3mm slotted	2	\$ 425.00	\$ 850.00
18	Replacement screens 0.8mm slots for 70% passing 30 mesh		\$ 425.00	
19	Pillow block bearings for hammer mill (set of 2 each)		\$ 190.00	
20	Set of belts for hammer mill (3 belts per set)		\$ 95.00	
21	Set of belts for jaw crusher (4 belts per set)		\$ 225.00	
22	Spare 8" x 12" jaw plates	1	\$ 480.00	\$ 480.00
23	1000lbs of balls at \$2.00/lb (ball wear is 1-2lbs per ton of ore)	1000	\$ 2.00	\$ 2,000.00
<b>Discount - Jaw crusher module</b>				\$ (750.00)
<b>50% deposit due at time of order:</b>		<b>\$46,905.00</b>		
<b>Full balance due before shipment for</b>				
<b>Ball Mill:</b>		<b>\$14,500.00</b>		
<b>All other machinery:</b>		<b>\$32,405.00</b>		

**Special Notes and Instructions:**

- Machinery (EXCEPT ball mill) will be ready to ship 3 weeks after receipt of 50% deposit, with full payment due prior to shipment.
- Ball Mill will be ready 10-12 weeks after receipt of 50% deposit, with full payment due prior to shipment.
- For all machinery, the electric control panel, starter, breaker, and wiring to be provided by customer.

Sales Tax (WA only):

**Freight:** Ex-Works

**Total-USD \$ 93,810.00**

**Payment Options:**

- 1) Wire transfer per instructions, listed below.
- 2) Go to a Wells Fargo bank branch and directly deposit into the account, listed below.

**Wire Transfer Instructions:**

**Institution Name:** Wells Fargo Bank, N.A.  
**Swift Code:** WFBUIUS6S  
**Routing Number:** 121000248  
**Bank Account Number:** 8534926673  
**Institution Address:** 1855 Main St. Ste 101, Ferndale, WA 98248  
**Name of Recipient:** Mt. Baker Mining and Metals, LLC, Jason Gaber

**Contacts:**

**Steve Gaber:** (360)-595-4445  
**Jeff Abel:** (360)-325-3060

Please confirm your acceptance of this quote by signing this document, scanning and returning to seller.

**Signature**

**Print Name**

**Date**

**Terms of Sale:**

- The full balance due is required before the goods leave the Mt. Baker Mining and Metals (MBMM) facility.
- All funds are in USD.
- It is the responsibility of the buyer to install and operate equipment in compliance with safety guidelines and all applicable laws and codes.
- There is a one year guarantee on non-wear parts and labor. If there is a defective part, MBMM will send replacement parts or repair a unit that is sent back to MBMM the shop, at MBMM's discretion.
- Inspection by the customer or customer's representative is welcome, to verify the goods are per agreement and ready for shipment.
- In no event, will MBMM be liable for death, injuries to persons or property, or for incidental or consequential

**Performance Guarantee**

The customer will witness the operation of the processor in our plant, in person or via video. We will run the machinery with our ore or customer's ore for demonstration. If the plant does not perform as stated, we will return the 50% deposit in full. By taking delivery, the customer accepts that the performance is satisfactory. Otherwise, if the customer cancels the order in-process or fails to take delivery within 60 days after notice of completion, the 50% deposit is forfeited to Mt. Baker Mining and Metals as a cancellation charge.

**Thank you for your business!**

Product Photos

\*\*Photos are representative examples of similar equipment\*\*

Jaw crusher module:



Fine ore hopper module:



## Product Photos

**\*\*Photos are representative examples of similar equipment\*\***

Fine ore hopper module, feeding hammer mill module:



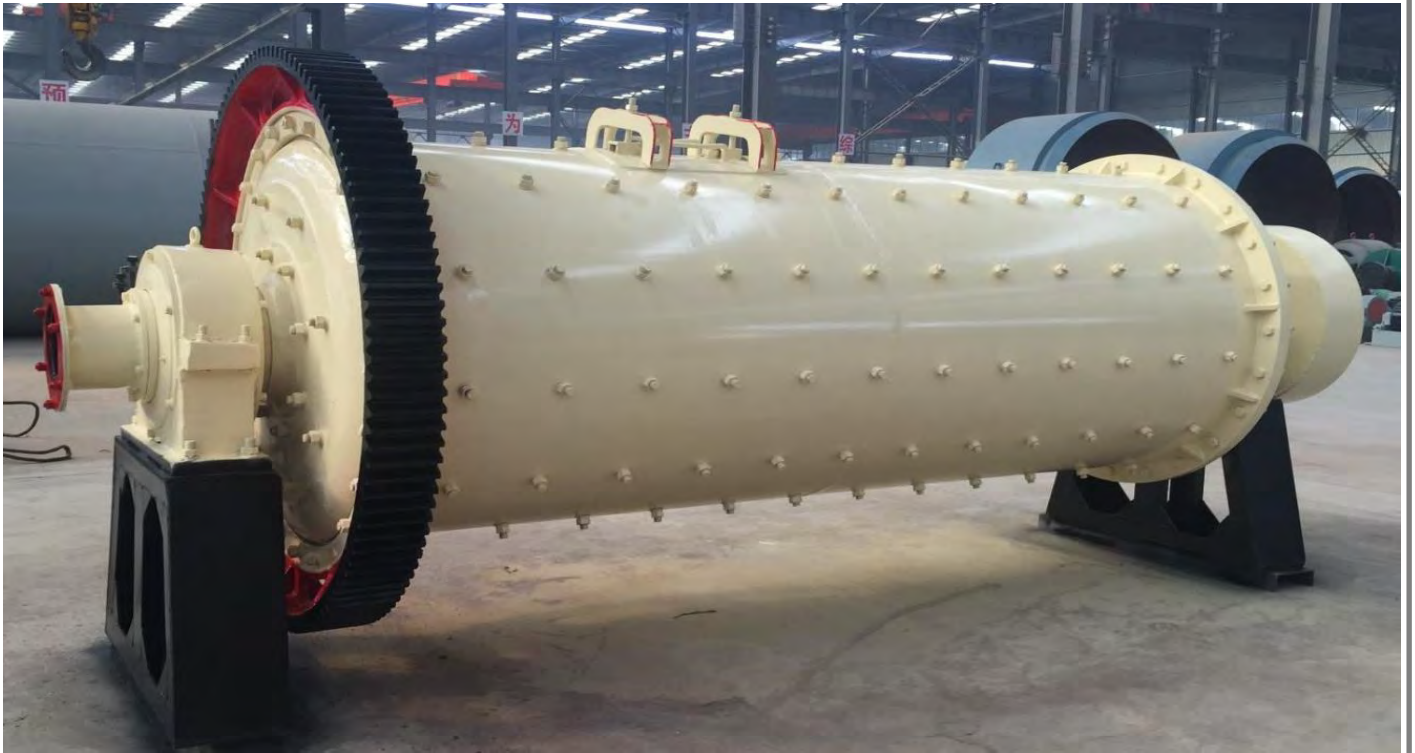
4' x 8' shaker table on a stand, fed by hammer mill:



**Product Photos**

**\*\*Photos are representative examples of similar equipment\*\***

Ball Mill



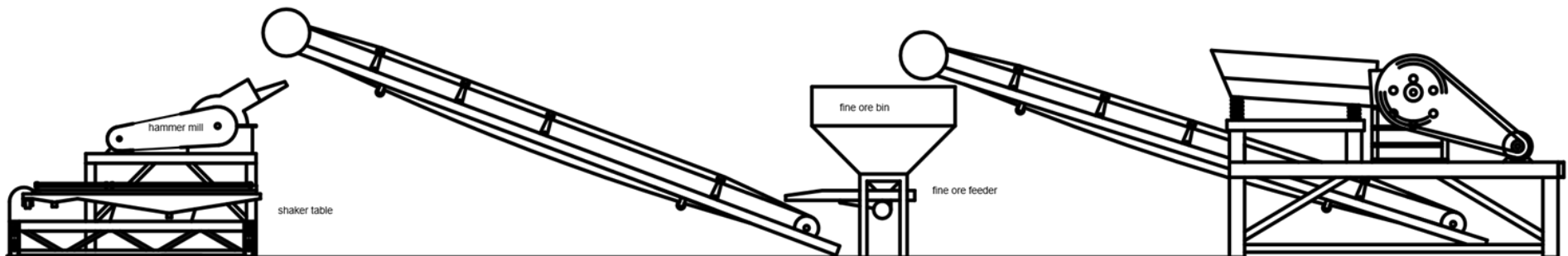
Spiral Classifier






# MBMM

## Turn-Key Ore Processors, Components, Pricing, and Specifications



### Table of Contents

<b>Overview</b>	<b>p2-4</b>
<b>Turn-Key Ore Processors</b>	<b>p5</b>
<b>Jaw Crusher &amp; Hopper Modules</b>	<b>p6</b>
<b>Hammer Mills &amp; Shaker Tables</b>	<b>p7</b>
<b>Spare Parts</b>	<b>p8</b>

To view video demonstrations of equipment in this brochure, click on boxes labeled 

**Mt. Baker Mining and Metals, LLC**  
**Phone: (360)-595-4445**  
**Email: info@mbmllc.com**



# Overview

Mt. Baker Mining and Metal's turn-key ore processors are designed for hands-free operation, without the need for leaching, mercury, or floatation. All components of the processor are mechanical, and do not require electronics or computers for operation. This is accomplished by crushing and grinding the raw ore through a jaw crusher and hammer mill, and using gravity separation on a concentrating shaker table to separate the precious metals from the waste. When operated properly, 95% of the free milling gold to <325 mesh is captured, with documented recovery of gold as fine as 400 mesh. The ore follows a five step process for recovery, outlined below.

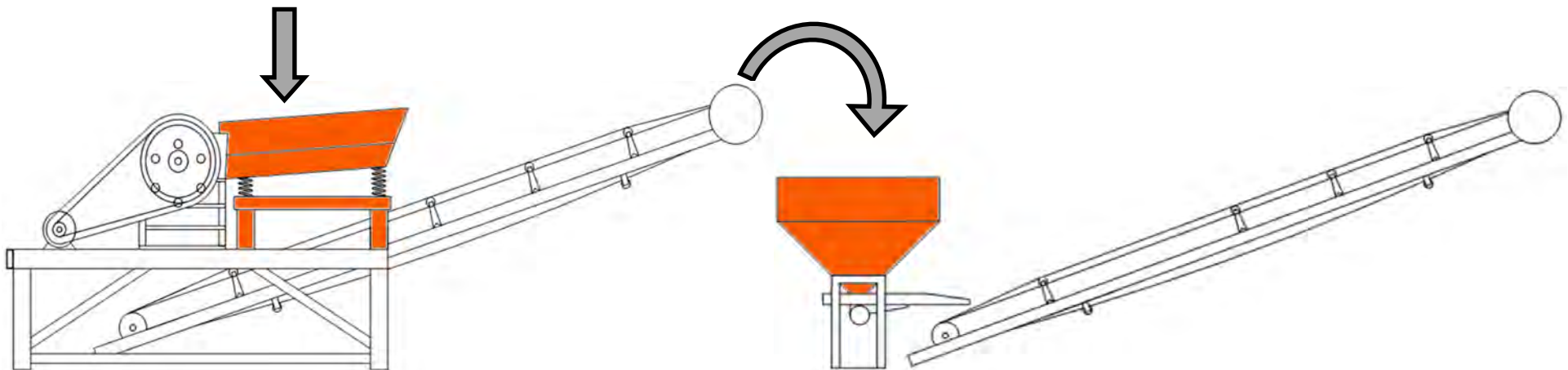
[Video: Complete Gold Recovery Processing Line](#)

## Step 1: Ore Loaded in Jaw Crusher Module

The jaw crusher module is comprised of a vibrating ore hopper, a jaw crusher, and a 16" wide inclined conveyor belt, all integrated on a structural steel stand. Ore is loaded via a backhoe or loader bucket into the vibrating ore hopper, which feeds the jaw crusher. Material is crushed, typically to <1", and feeds onto the conveyor belt, which carries it to the next module.

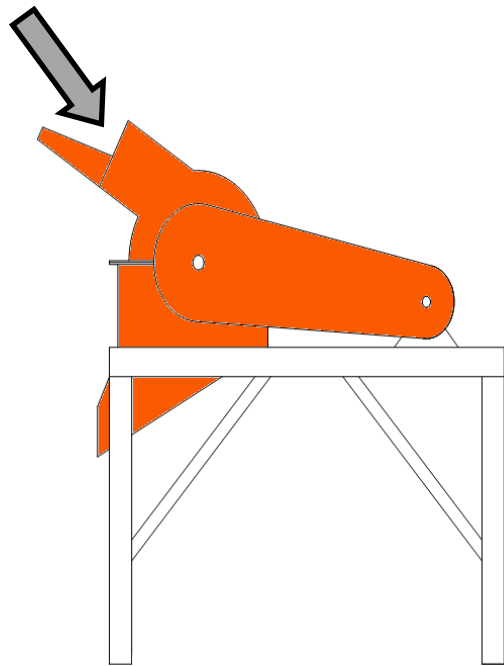
## Step 2: Crushed Material Runs Though Fine Ore Hopper Module

The fine ore hopper/feeder module consists of a 1+ cubic yard fine ore hopper, electromagnetic metering feeder, 16" wide inclined conveyor belt, all integrated on a structural steel stand. Crushed material flows into the fine ore hopper, where it feeds into the mag feeder. Contents are smoothly metered onto the conveyor belt, providing a consistent feed rate to the hammer mill.



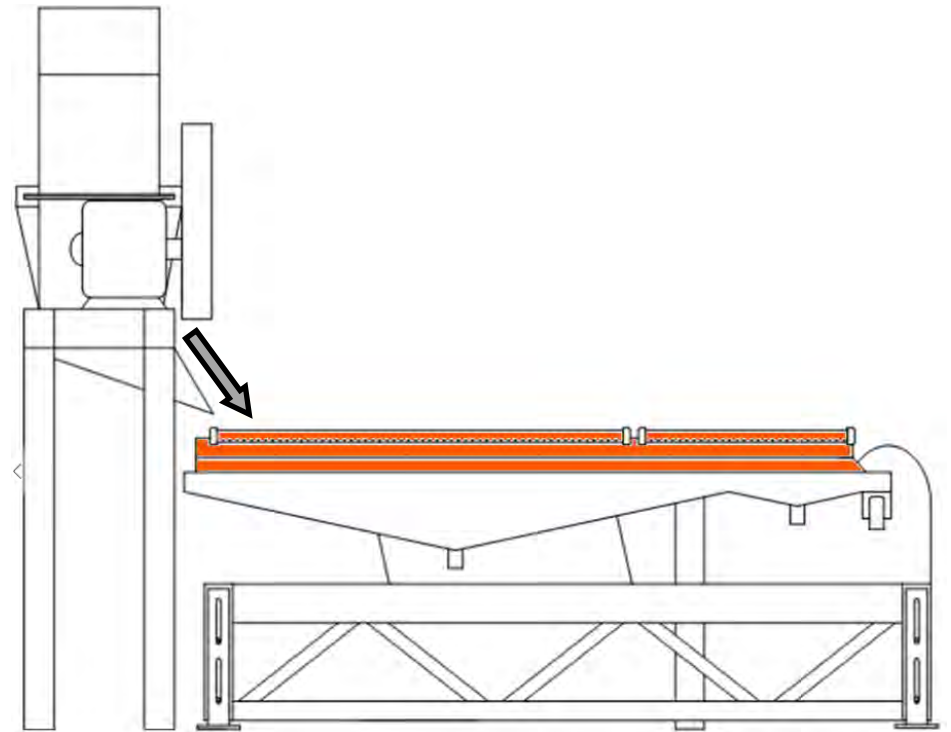
### Step 3: Ore Pulverized Through Hammer Mill

Hammer mills provide the final step in grinding the material for gravity separation on the shaker table. Each hammer mill has high chrome hammers, AR400 liners and screens, and can be run wet or dry. The discharge material is fine, typically with 70% passing 20 mesh at rated throughput.



### Step 4: Material Run Across Shaker Table

Slurried material from the hammer mill feeds onto the shaker table. The shaker table uses a ramp and plateau built into the top, based on an old Deister patent. This allows a cleaner cut between high density material, lower density material, and waste products. Only the most dense material will climb the ramp in the table grooves up to the next plateau. The less dense material forms a band at the base of the ramp and reports to middlings, while the lighter waste material stays behind and reports to the tailings.



## **Step 5 (optional): Use a Spiral Classifier on Shaker Table Tailings**

Depending on the liberation size of the ore, it may be beneficial to classify the tailings (waste material) with a spiral classifier. Fine gold particles can be trapped in ore which needs further pulverizing in the hammer mill, and a spiral classifier is effective at separating oversize material with potential gold values from the smaller, waste material. The oversize material is augered up and out the top, while a port on the side of the spiral classifier dispenses the waste. The size of separation can be adjusted, based on water flow and pool size of the water in the bottom of the classifier.



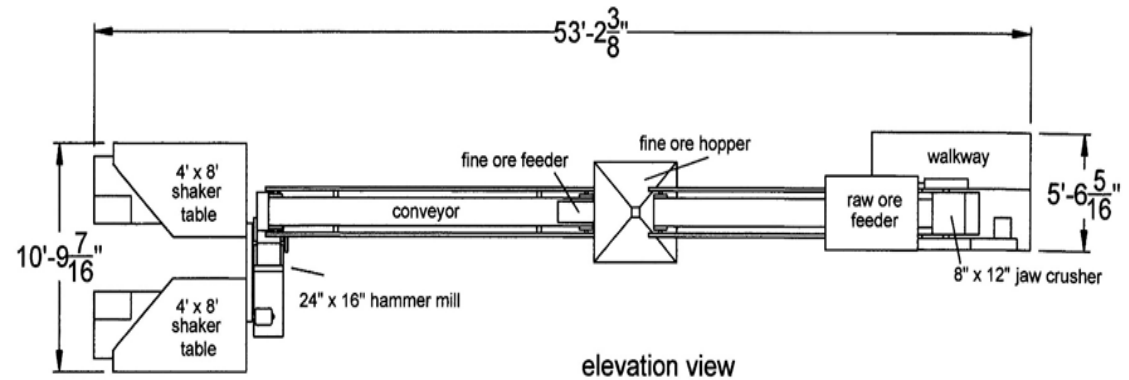
## **Additional Notes and Recommendations**

All components of Mt. Baker Mining and Metals' turn-key ore processors are industrial grade, and designed for long term use. When used with a hammer mill, the best application is as a pilot plant or for processing a limited tonnage of ore (1,000s of tons rather than 10,000s of tons). The hammer mill is the limiting factor for long-term, permanent installations, as it is a high-wear, high maintenance machine. A ball mill is a logical and more permanent upgrade that can be installed later, to replace the hammer mill. With a ball mill, the turn-key ore processor is suited to run for 10,000s of tons with only routine maintenance.

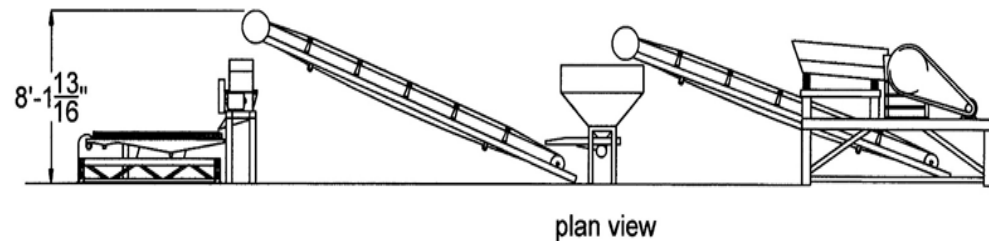
We recommend potential buyers to get qualified assistance, other than Mt. Baker Mining and Metals, in the areas of mill design/operation, engineering and electrical wiring to assure a smooth start-up and safe operation.

# Turn-Key Ore Processors

- ✓ Turn-key ore processors integrate a jaw crusher module, fine ore hopper/feeder module, hammer mill, and shaker table
- ✓ Processor operates with mechanical crushing and grinding of ore with gravity recovery of gold and
- ✓ Recovery of 95% of the free milling gold down to 325 mesh, without mercury, leaching, or flotation
- ✓ Built into structural framework on skids which allow ease of operation, with no anchoring needed
- ✓ No computers or electronic controls



Video: Complete Gold Recovery Processing Line



## Specifications and Pricing

Turn-Key Ore Processor	Jaw Crusher Module	Fine Ore Hopper/Feeder Module	Hammer Mill	Shaker Table	Weight (lbs)	Total Power (kW)	Price
<b>1 Ton/Hour</b>	6" x 10"	2 TPH	16" x 12"	4' x 8' table	9,000	24	\$56,900
<b>2 Ton/Hour</b>	8" x 12"	2 TPH	24" x 16"	Two 4' x 8' tables	16,500	38.5	\$79,900
<b>4-5 Ton/Hour</b>	10" x 16"	5 TPH	Two 24" x 16"	Four 4' x 8' tables	21,500	47	\$124,900

\*\* All prices listed in USD. For all machinery, the electric control panel, starter, breaker, and wiring to be provided by customer

# Jaw Crusher Modules



Video: 16" x 24" Jaw Crusher Module

- ✓ Turn-key jaw crusher system, powered with three phase electric motors
- ✓ Includes a 1 yard vibrating feeder/hopper, a jaw crusher, and a transfer conveyor to move the discharge of the jaw crusher, all on a structural steel framework with skids
- ✓ Jaw crusher module is the first component of our turn-key ore processors
- ✓ Most commonly used in processing quarry gravel, broken concrete and demolition waste, and scrap quartz/granite countertop material

## Specifications and Pricing

Jaw Size	Tons Per Hour	Feed Size	Dis-charge Size	Weight (lbs)	Total Power (kW)	Price
6" x 10"	1 - 3	5.5"	3/4" - 2"	4,000	8	\$20,900
8" x 12"	2 - 6	7.5"	3/4" - 2.5"	5,000	9.5	\$22,600
10" x 16"	5 - 20	9"	1" - 3"	9,000	17	\$29,300

# Fine Ore Hopper Modules



- ✓ Prevents surges of material from clogging the system, by holding excess material in the hopper, and metering out contents in a controlled way
- ✓ Includes a 1 yard ore hopper, an electromagnetic feeder, and a transfer conveyor to move the discharge of the hopper, all on a structural steel framework with skids
- ✓ Fine ore hopper/feeder module is second component of our turn-key ore processors
- ✓ Most commonly used to feed a hammer mill or ball mill for pulverizing ore, but useful for feeding any free-flowing material

## Specifications and Pricing

Capacity	Hopper Size	Max Feed Size	Dis-charge Size	Weight (lbs)	Total Power (kW)	Price
2 ton/hour	1 cubic yard	<1"	<1"	1,400	3	\$9,800
5 ton/hour	1 cubic yard	<1"	<1"	1,500	3.5	\$11,900

# Hammer Mills



# Shaker Tables



- ✓ Complete and ready to run including hammer mill, inlet chute, belts, motor, full enclosure guards, on a steel skid
- ✓ Industrial grade, with replaceable high-chrome hammers, AR400 case liners, and AR400 screens
- ✓ Hammers can be rotated for additional life
- ✓ Different screens available for varying discharge sizes
- ✓ High throughput with a small footprint
- ✓ Runs both wet and dry

## Specifications and Pricing

Hammer Mill Size	Tons/hour with <3/4"	Max Feed Size	Dis-charge Size	Weight (lbs)	Price
16" x 12"	1	<2.5"	70% passing	1,600	\$7,500
24" x 16"	2	<3.5"	70% passing	3,000	\$13,900

- ✓ High-grade gold concentrate; 95% of the free gold at >325 mesh with minimal contamination
- ✓ Utilizes ramp and plateau system (old Deister patent) with specially designed table grooves for maximum recovery
- ✓ Sulfide middlings with values and other dense material recovered with little contamination
- ✓ Separate discharge for tailing (waste) product

## Specifications and Pricing

Shaker Table Size	Capacity (lbs/hr)	Motor, 120V Single Phase	Weight (lbs)	Price
2' x 4'	300 - 500	1/2 hp, 120V	300 lbs	\$6,900
4' x 8'	2,000 - 2,500	1/2 hp, 120V	750 lbs	\$12,900

# Spare Parts

## Jaw Crushers

Jaw Size	Jaw plates	Belts	Toggle Plates
6" x 10"	\$425	\$275	\$550
8" x 12"	\$550	\$275	\$550
10" x 16"	\$1,325	\$340	\$625



## Hammer Mills

Hammer Mill Size	Pillow Block Bearings (set of 2)	Hammers, full set (every 40 hours)	AR400 Screens (every 120 hours)	AR400 Liners (250+ hours)	Rotor Assembly w/Hammers
16" x 12"	\$190	\$395	\$675	\$800	\$2,550
24" x 16"	\$230	\$545	\$775	\$925	\$3,950



★ Lower wear components of turn-key ore processors are engineered to last 10,000+ tons without issue. This includes shaker tables, ore hoppers, electromagnetic feeders, and conveyors. If you would like more information regarding maintenance costs, recommended spare parts, or configuration of machinery, we are happy to answer any questions and provide recommendations.