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Nuggets of News and Knowledge

Nov / Dec 2020

Whether you are new to gold prospecting or an experienced old-timer, whether you have just started swinging a metal detector or have been digging targets for years, get the most out of treasure hunting with these nuggets of news and knowledge— tips, ideas, new products and more!



Using Water Dynamics to Boost Gold Recovery

The use of water for grinding and milling has been in practice for thousands of years. From simple water wheels to inventors such as Archimedes of Ancient Greece and Bernoulli, a Swiss



mathematician and physicist in the 1700s whose principles appear on modern day dredge nozzles, science has always advanced the use of water in our everyday lives. But have you considered just how much the dynamics of water can affect gold recovery?

Water Flow. The easiest example of how water dynamics affect gold is the classic inside bend in a waterway. When stream flow is straight and velocities are at their highest, gold will be suspended in the flow. As a bend in the stream causes flow to begin slowing down, the heaviest gold begins to drop out because the water no longer has enough velocity to suspend the material. The stream continues to lose power as the bend length increases and smaller and smaller gold continues to be deposited until there is no longer any in suspension, or the remaining water flow and speed cannot carry it farther downstream.

Water velocity and flow affect attempts at recovery in all capture devices in exactly the same way. Each piece of gold in classified material requires a certain flow and length of time to separate, drop out, and be captured based solely on its relative size and weight. If the velocity and flow are too great, the gold will remain suspended and will exit the machine regardless of machine length or method of recovery. This is why some miners are lured into a false sense of security just by using longer sluices. [Article continued here.](#)

Gold Well Drop Riffle Sluices Now Available

Nugget of Knowledge

VLF and PI Detector Differences

There is truly no single “best” type of detector when it comes to gold hunting. But understanding the differences between a VLF (very low frequency) and a PI (pulse induction) detector can help you decide which detector might be the “best” to use in a particular situation. VLF metal detectors are the most common. It is a single or multi-frequency machine that consists of a continuous sine wave. Sine waves travel down into the ground to find a metallic target, and once it does, the machine charges the target, releases an eddy current, and sends back a signal. The PI metal detector is not a continuous sine wave. Instead, it pulses on and off and on and off. It “talks” and then “listens.” [More on metal detectors here.](#)

Back by popular demand... the original Gold Well Drop Riffle Sluice invented by the late Bernie Makowski is back on the market again! If you're a fan of the Discovery channel's popular Bering Sea Gold TV show, then you saw Gold Well sluices in action aboard the AU Grabber dredge during the 2013 summer filming



season in Nome, Alaska. Performance was exceptional! Just think of the time savings— no more carpets, matting, or miner's moss to clean up!

The Gold Well Vortex Drop Riffle Sluice works by creating a gentle, vertically oriented vortex. This vortex keeps material in the spiral shaped Wells in motion, causing light material to be flushed out easily and concentrating heavy material. When a piece of gold crosses this vortex, it finds no stable bed to rest on so it drops to the bottom, where it stays, because there is no force coming up from the bottom to flush it back out. Horizontal grooves are not designed to trap gold, they are mixing Wells. The slots create turbulence sufficient to cause light material to be forced up into the upper laminar flow regions of the water flow so they will be quickly removed by the water stream flowing through the sluice. The heavier materials move more slowly through the sluice, along the bottom where it is forced to cross the spiral Wells where it is trapped. [Learn more about Gold Well Drop Riffle Sluices and Packages here.](#)

NEW! Garrett Ace Apex Metal Detector



The power of choice is yours with Garrett's NEW Ace Apex metal detector with highly versatile multi-flex multi-frequency technology!

WHY IS MULTIFREQUENCY IMPORTANT? Lower frequencies generally offer improved detection on larger and more conductive

targets (i.e. large silver coins). Higher frequencies generally offer improved detection on smaller and less conductive targets (i.e., hammered silver coins, gold nuggets). Ships with the NEW fully waterproof Viper DD coil designed as a low-impedance, broad-bandwidth coil to support the new Apex Multi-Flex frequency technology. The 11" size is large enough to cover plowed fields, but its narrow 6" footprint allows easy separation of targets in iron-infested areas. Detector available as a package with headphones, or without. FREE SHIPPING! [Shop Garrett metal detectors and packages here.](#)

Fine Gold Recovery Equipment

Gift Idea



Not sure what your favorite gold prospector or metal detectorist needs or wants? Give 'em a digital gift certificate so THEY can choose! Available in 6 denominations. [Gift certificate info here.](#)

Thanks for Your Business!



At this time of year, our thoughts turn gratefully to those who have helped make our success possible since we opened our online store in 2005. As a small business, we appreciate YOU, our loyal customers. Thank you and Happy Thanksgiving!

Alaska Paydirt



For well over a century, prospectors and miners from all over the world have risked life, limb, and their personal fortunes to get their hands on paydirt found in The Last Frontier. If you'd like to get some of this rich Alaskan paydirt without



With the price of gold on the rise these days, you want to recover every tiny bit! Why is flour gold so valuable? Well, the market price of gold is based on 1 troy ounce. Each ounce contains 480 grains, 20 pennyweight, or 31.104 grams,

depending on your scale's method of measurement. When you do the math, you'll discover that flour gold recovery has gotten so valuable that a single grain can be worth \$3! Luckily, [Gold Cubes](#) and [Spiral Panning Machines](#) both do any excellent job of recovering fine gold.

History Nugget: Sumpter Valley Dredge



At the Sumpter Valley Dredge State Heritage Area located on the edge of the tiny town of Sumpter, Oregon, visitors can take a self-guided tour of the massive 1,240 ton YUBA style dredge. Not many gold dredges are still on public display, so it's fortunate this is one of the largest and most accessible in the country. Built at a cost of \$350,000 in 1935, it produced \$4.5 million in gold until 1954 (gold was then \$35 an ounce), and was actually the third dredge to be used during that time period. It's hard to believe all that bulk actually floated on its own small pond, but that's exactly how the dredge moved from place to place—digging into the soil in a sideways pattern creating a constant pool of water that came from the Powder River.

Sticking out from the dredge's hull is a massive boom bearing 72 one-ton buckets. The buckets, moving like the chain of a chainsaw, would bore into the riverbank and carry the loose rock back into the dredge interior. Once inside, the rock would pass through a series of steel cylinders to separate the material by size, sending the smaller material deeper into the dredge. Using water and sluices, the gold would be separated from the sediment. The spoils from this process and larger rock passed through the back of the dredge and were deposited behind it via another boom. The dredge ran 24 hours a day/7 days a

traveling north, [bags of Gold Rush Paydirt can be shipped to you](#) direct from the source! No need to brave the cold and rugged terrain of the 49th state when you can make your dreams of hitting paydirt a reality from your own home — starting with a delivery via Priority Mail!

Woodman's Pal Machete



Cuts like a machete, chops like an axe! Once you try it, you'll wonder how you ever did without the Woodman's Pal machete! This battle-tested tool has served in all the wars from WWII through Desert Storm and features a sharp, hard-cutting edge on one side, suitable for chopping down brush, small trees, cane and any other type of growth. On the other side of the Woodsmans Pal tool, you'll find a curved hook, which is ideal for pulling and cutting vines, pruning limbs and cutting or hacking any type of overhanging brush. Check out the [Woodsmans Pal machete](#)— an American-made hand tool that will last you a lifetime!

Considering a Big Purchase?



No Payments + No Interest if paid in full in 6 months on

week in all weather, requiring three shifts of about 20 men each. The workmen had just two days off each year—Christmas and Independence Day—and earnings were only 90 cents an hour for oilers and \$1.10 per hour for winchmen. [Article continues here.](#)



There has never been a better time to get involved in the Modern Day Gold Rush! Visit GoldRushTradingPost.com today to find great prices on equipment and supplies that make gold prospecting, metal detecting, and rock hounding easier, faster, and much more fun! **FREE SHIPPING in continental USA when you spend \$350!**

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