

Primary Water: Answer for Drought Issues?

Adapted from a press release by Blue Sky Water Technologies, Inc.



In March 2011, Pal helped create the Machakos water well in Kenya.

In 2008, Mark Ward's avocado trees were dying of thirst. His water rates were increasing at a time when money was already tight and prospects for his small four-acre* venture were dim at best. Well, drilling professionals had pretty much given up on finding water on Mark's property unless they could drill to 900 feet*, which made the cost of the project prohibitive.

Enter Pal Pauer. Pal is one of the world's leading authorities on primary water. Primary water (also called earth-generated, juvenile, or magmatic) forms within the earth's crust or mantle and is found in crystalline rock systems at depths of only 100 feet* or more. This water is the source of all water on the earth and eventually reaches the groundwater, soil water, and surface through vents and unconfined aquifers to become part of the hydrological cycle when extracted.

Pal's work takes him to all corners of the world where, in addition to locating primary water, he supervises the well drilling, as well as the borehole and hand pump installation. His work has greatly expanded the rural water supply which was previously unavailable to the indigenous people.

Mark's farm is in Bonsall, a southern California community where traditional water wells are common. However, some wells have dried up due to the excessive amount of draw over the years and the lack of water to replenish them due to drought conditions. Pesticides and other contaminants have made some well water unusable for farming or human consumption.

"We were in trouble, bad trouble. Our water bill kept rising and we couldn't keep pace. When I heard about the wells that

Pal and his predecessor (Stephan Riess) drilled, I contacted him immediately. It took him less than four hours to determine that we indeed had access to primary water on our small plot of land. That's amazing. Our well produces 50 gallons* per minute of clean, vibrant water and we've cut our irrigation expenses by 70%," Mark said.

Primary water wells are not a new phenomenon. Stephan Riess was drilling wells all over California and in the Middle East as far back as the early 1930s. Pal has traveled to Africa numerous times, and earlier this year, drilled six wells in Kenya and Tanzania, producing over 3000 gallons* of water per minute in an arid land with less than 10 inches* of rainfall per year. One well supplies water to 15,000 people and is free flowing at 30 gallons* per minute.



According to Pal, "It's hard to get the point across to many people in the U.S. that the earth makes water. We can access it and solve our problems. We don't need as many massive storage facilities or aqueducts. Clean, virtually infinite sources of water might be right under our feet."

Primary water is accessed by drilling directly into bedrock, often at depths of just 150 to 300 feet.*

Interest in primary water is expanding in the U.S., especially in drought-stricken areas such as California. In fact, many of the more than 50 wells Riess and Pauer drilled are still operating. The town of Cottonwood, Idaho, has 2 wells drilled in the early 1950s, which are still supplying water. Sparklett's Water in Lakeside, California, continues to use wells Riess drilled in the late 1950s.

You may ask, "Why haven't I heard about primary water sources before?" Good question. That's why you're reading this article.

(1 acre ≈ .405 hectares)
(1 foot ≈ .304 meters)
(1 gallon ≈ 3.78 liters)
(1 inch ≈ 2.54 centimeters)

When asked about primary water, WWD® contributing writer Tom Kwader had this to say...



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I have not thought of primary water since my early days of college. What I remember is about the steam coming from volcanoes, was primary water that has never previously seen the light of day and was being added to our hydrologic cycle - exciting!

~ Thomas Kwader Ph.D., P.G.
Hyd/Eng Consultant

WWD® would like to hear what you think about primary water.

E-mail: editorial@worldwidedrillingresource.com

In Memoriam Robert Ross "Bob" Webb 1935-2011



WorldWide Drilling Resource® was saddened to hear of the sudden passing of Robert "Bob" Ross Webb on September 6th.

He was born in 1935, in Plainfield Township, Michigan. In 1958, Bob was drafted into the U.S. Army where he was blinded in one eye while firing at a rifle range.

From a young age, Bob was always a high-energy person who loved working outdoors. In 1966, he started R. Webb & Son Well Drilling when he had difficulty getting his well repaired.

At the height of his career, Bob was named "Well Driller of the Year" by the Michigan Ground Water Association.

Bob is survived by his wife Arlene, son Robert II and wife Candy, daughter Luwinda and husband Sam Lippert, nine grandchildren, and eight great-grandchildren.

Lest we forget...