

## Portland Quarry & Cement Plant; Florence Oil Field



Registration for this trip includes box lunch, water, snacks, transportation, and entrance fee

**Leader:** Tom Newman, CPG

Ever wonder the difference is between cement, concrete, and mortar? Can a person be submerged in the Niobrara Formation? Or, what happens to my car tires when I am done with them? You can find all three answers, (and more!) on a field trip to Portland, CO (ever wonder how that town got its name?) to tour LafargeHolcim's Portland Cement Quarry. Starting with the raw materials, we'll tour the quarry (inside the Niobrara Formation) then to the processing plant. Samples can be taken.

The Niobrara is the primary oil producing formation in eastern Colorado, Nebraska and Kansas. For Petroleum Geologist, this is an extraordinary opportunity to see the Niobrara in situ!

This trip is led by Thomas ("Tom") Newman, of LafargeHolcim, Chief Geologist in North America for Holcim, now LafargeHolcim, for more than 20 years. His knowledge about raw materials, processing plants and cement is unsurpassed.

**About the Holcim Portland Cement Plant ([www.holcim.com/us](http://www.holcim.com/us))**

The Portland Cement Plant started in 1897 and in 1996 upgraded to a dry process. Now the oldest continuously operating cement plant in Colorado. With 125 employees, the Portland cement plant supplies markets in Colorado, New Mexico, Kansas, Wyoming, Idaho, Texas, Utah and Nebraska. The Portland cement plant produces Type I/II Moderate and Low Alkali cements, Type III, Type GU, Type IPF and Masonry Type N. They have an annual capacity of 1.8 million metric tons.

**Trip Requirements:** Moderate physical activity of walking in the quarry. Standard field protection equipment: safety shoes/boots, protective eye wear, hard hat, gloves, safety vest. The Plant will have extras if needed. If desired - bring hammer and sample sacks.