

STUNNING NEW LOW COST OIL SHALE TECHNOLOGY Kerogen Shale - Part 2

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Kerogen Shale - Part 2

During the late 19th century / early 20th century, the coal industry enjoyed global dominance in the energy industry. Indeed..., 'Coal was King' during that era. However, since the discovery of oil in a shallow (240 ft.) well in Pennsylvania, U.S.A. in 1859, the coal industry has seen a steady and, at times, a dramatic erosion of its pre-eminence in the global energy sectors. Over the last 100 years, the global oil and gas companies have become preponderant in the energy markets.

Today, with the ever increasing and heavy political pressures on a global scale toward the eradication of 'fossil fuels' in favor of natural gas, the electrical generation sector is being federally mandated and forced towards overhauling its long-standing associations with coal. The global exports of coal to the remaining 'bright spots' in the world (China, et. al.) are also witnessing slowing energy sector growth with ever increasing pressures to switch to natural gas. During the last eight years, the shale fracking technologies have provided further evolutions towards increasing the available reserves of oil and gas. These technologies are, nevertheless... as with coal, under intense environmental pressures from many directions and should be seen as only 'stepping stones' to much larger transformational technologies associated with 'oil shale'.

'Oil shale' (kerogen: a precursor to oil and gas) is found in abundance worldwide and, with proven technologies, would astonishingly allow no less than 57 new countries to become energy producers with the distinct likelihood of energy independence. Add to this the fact that oil shale / kerogen geologic surveys and mapping are surprisingly only in their infancy, according to the International Energy Agency (IEA). In the United States, federal and industry estimates of oil shale in just the Rocky Mountain region approximate some 2 trillion barrels of oil. Even more is likely to be found in Sub-Saharan Africa. However, no viable technologies have been found to process these kerogen fields into clean, sustainable, and environmentally acceptable fuels... until now.

A truly evolutionary advancement in large scale processing of oil shale has been made, which will unlock the global potential for sustainable next-generation clean fuels. It is most remarkable and fortunate that the industry sector that is exceptionally well positioned to take fullest advantage of these most recent discoveries and technology revelations is the coal mining industry... NOT the oil and gas companies. There is more oil shale both discovered and undiscovered in the world than all of the oil and gas discovered to date. These emergent technologies and their attendant science and engineering experts are now positioned to globally monetize these oil shale opportunities. The technologies have been confirmed by world class scientists and engineers experienced in building advanced production systems utilizing oil shales from Colorado, Utah, and Panama. Serious and focused interest for acquiring large scale production designs, technologies, and equipment has been secured in Mexico, Panama, South Africa, Lebanon, Israel, Poland, and Australia.

What underlies these perceptive statements in favor of the coal companies is that they are best suited to environmentally extract oil shale for processing. A good portion of oil shale discovered to date is on or near the surface (300 ft. to 2000 ft in depth). Preservation of the pristine environments is the foremost consideration in developing these technologies. Analogously, to do 'catheter surgery / entry' into the oil shale fields would approximate applying 'subway technologies' for extraction. It is also important to note that the fully developed oil shale processing technologies and processing centers are 'closed systems' and in an advanced e-generation (electrical) design would be entirely co-located

with the shale fields underground..., thereby totally neutralizing any and all credible environmental challenges.

Most profoundly..., what has evolved in the energy sectors over the past 150+ years since the discovery of oil in 1859 can now be dramatically transformed and given new direction and momentum in favor of the coal mining industry. Stated clearly... with these emergent technologies, the coal / shale companies can reinvent themselves and globally evolve over time to surpass the present day oil and gas companies to collectively reclaim their pre-eminent positions as energy and mining giants with amazing and very nearly incalculable profitability.

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