

Improve Production in Mature Oil & Gas Wells with dynaBLEND™ Liquid Polymer Blending Systems

North Wales, PA — December 23, 2011 — Fluid Dynamics™, a leading manufacturer of liquid and dry polymer blending systems, and a division of Neptune™ Chemical Pump Co., Inc., has announced that its dynaBLEND™ Liquid Polymer Blending Systems can play an important role in realizing the true product-recovery potential of mature oil-and-gas wells. Field tests have shown that as much as 70% of the actual recoverable reserves from an oil well can remain below ground because it has become too costly to extract the product.

However, a recovery system that features dynaBLEND liquid-polymer technology can help turn these marginal and/or abandoned fields and wells into big producers again through an Enhanced Oil Recovery (EOR) process known as alkali-surfactant-polymer (ASP) chemical flooding. In this process, an alkali agent, a surfactant and a polymer are blended together and injected into a water injection well that is energizing the formation. This chemical combination helps release the oil from the trapped formation and flow to the well's surface.

The dynaBLEND is ideal for ASP applications because it has been designed to effectively activate all types of liquid polymers. The dynaBLEND's non-mechanical mixing chamber also delivers an unequalled degree of reliability when compared to other mechanical technologies. The system features an injection check valve that has been designed for easy disassembly and inspection, which eliminates many of the maintenance concerns that affect other systems. This HydroAction Technology produces in excess of six times the mixing energy per unit volume than a comparably sized mechanical mixer.



This enables the dynaBLEND to provide polymer activation that is paired to a particular process and flow demand. Control options range from manual systems to fully instrumental PLC-based units with an unlimited variety of inputs and outputs. Standard units are available to provide activated polymer solution from 30 gph (114 lph) to 21,000 gph (79,494) lph, with standard or custom dry-preparation systems with capacities to 2,200 pounds (998 kg) per day also available.

For more information on Fluid Dynamics and its complete lines of dynaBLEND™ Liquid Polymer Blending Systems, please visit www.dynablend.com. For more information on Neptune™ Chemical Pump Co. and any of its product lines, please visit www.neptune1.com.

Neptune™ Chemical Pump Co. is an operating company within Dover Corporation's Pump Solutions Group (PSG®). Neptune is a premier manufacturer of chemical metering pumps, chemical feed systems and chemical injection accessories. Neptune's hydraulic and mechanical diaphragm metering pumps are well known for injecting chemicals in many different industrial applications. Other Neptune products include make-down systems to prepare and activate liquid or dry polymer for injection into water and wastewater treatment processes, and a complete line of portable mixers. For more information, go to www.neptune1.com or email us at info@neptune1.com.