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Fluid Dynamics™ dynaJET™ Dry Polymer Systems Help To Recharge Oil & Gas Wells

North Wales, PA — November 14, 2011 — Fluid Dynamics™, a leading manufacturer of liquid and dry polymer blending systems, and a division of Neptune™ Chemical Pump Co., is pleased to announce that its dynaJET™ Dry Polymer Preparation technology is now available for use in oil-and-gas production applications as a way of maximizing the recoverable resources found in mature wells. The engineering team at Fluid Dynamics can design an entire system that meets the needs of a specific well.

Many mature wells still have valuable recoverable resources buried deep within them, but the cost to bring these resources to the well's surface can be prohibitive to the well's operator. By using the dynaJET system to inject a mixture of dry polymer and water into oil-and-gas wells that have declining production rates, the wells can be "recharged." The long-term benefits of working these revitalized wells can include increased production, better operational efficiencies, revenue enhancement, less downtime, reduced environmental risk, and reduced health and safety concerns for site personnel.

DynaJET™ and a
Neptune™ are
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Neptune™ and a
Dover™ company.
An image is needed to see the picture.

The dynaJET technology is ideal for oil-and-gas recovery applications because it utilizes a negative-pressure pneumatic conveyance system to transport and disperse the dry polymer prior to wetting. Dispersing dry polymer prior to coming into contact with the dilution water assures effective polymer particle wetting. Effectively wetting each polymer particle prevents polymer agglomerations from occurring. The result is reduced mix and hydration times, higher polymer performance and lower chemical costs.

In the pneumatic conveyance process, specially designed spray nozzles thoroughly wet each polymer particle as it passes through the wetting head and into the mix/age tank. The mix/age tanks include Neptune's mixers, specifically designed for polymer applications to keep the hydrating polymer molecules in suspension while not damaging the fragile, uncoiling polymer.

For more information on Fluid Dynamics and its dynaJET™ Dry Polymer Preparation System, please visit www.dynablend.com. Neptune is an operating company within Pump Solutions Group (PSG®). For more information on PSG, go to www.pumpsq.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.

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