Revive Mature Oil & Gas Wells

Fluid Dynamics™, 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. According to the company, key characteristics of the systems include:

- Liquid-polymer technology can help turn 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 the EOR 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 system is ideal for ASP applications because it has been designed to effectively activate all types of liquid polymers.
- The non-mechanical mixing chamber 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.
- HydroAction Technology produces in excess of six times the mixing energy per unit volume than a comparably sized mechanical mixer.
- 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.

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