ParagoneM and Lateral Jet Drilling
Proprietary Lateral Jet Drilling Fluid

• Proprietary Technology
• Environmentally Friendly
• Enhancement Technology
• Minimal Skin Damage
• Proven Viscosity Reduction
• Paraffin/Asphaltene Reduction
• Scale Inhibitor
• No Damaging Formation
Paragone-M Biochemical Enhancement of Oil and Gas Production Using Lateral Jet Drilling

- Biochemical Enhancement of oil and gas wells is a process whereby certain groups of microbes and nutrient are injected into the producing formation to increase production, dissolve paraffin and asphaltenes, dissolve scale and prevent corrosion. The treated oil also has lower viscosity and lower cloud point.

- Lateral Jet Drilling is a process whereby small laterals are drilled radially out into the producing formation using high-pressure water. This process increases the surface area of the producing formation allowing more oil and gas to enter the well bore thus increasing production.
Advantages of using Paragone-M™ Biochemical Treatment with Lateral Jet Drilling

• ParagoneM™ biochemical can be blended into the water used in the Lateral Jet Drilling Process.

• Biosurfactants and other biochemicals produced by the microbes contained in ParagoneM™ will lower viscosity and reduce the surface tension of the oil to the formation matrix. This allows the oil in the producing formation to flow much easier into the newly drilled/jetted lateral.

• ParagoneM™ prevents paraffin formation in the new laterals. Due to the lower temperature of the water used in the jetting/drilling process, paraffin may precipitate causing loss of permeability.
Advantages of using Paragone-M™ Biochemical Treatment with Lateral Jet Drilling cont.

- ParagoneM™ prevents asphaltene formation in the new laterals. Due to the lower temperature of the water used in the jetting/drilling process, asphaltene may precipitate causing loss of permeability.

- ParagoneM™ inhibits scale formation in the new laterals. Dissimilar water used in the jetting/drilling operations (jetting water vs. formation water) could cause scale to precipitate in the producing formation.

- ParagoneM™ will greatly reduce the possibility of damaging SRB’s from becoming established in the newly created laterals.