



ARC CBM Regain™

Product Data Sheet

Delivering Tomorrow's Fluid Technologies Today

Description

Micro-solution Additive for CBM Workover and Remediating fluids.

ARC CBM Regain™ is a patent pending, biodegradable, thermodynamically stable micro-solution (clear mixture of solvent, co-solvent and surfactant) designed specifically for use as a CBM remediation fluid additive. **ARC CBM Regain™** enhances any CBM remediation fluid by improving system penetration, optimizing release of accumulated substrate, facilitating black water flow back from and clean-up of the reservoir. **ARC CBM Regain™** is compatible with oil, condensate or waterbase remediating fluids. **ARC CBM Regain™** can be used with other remediation chemicals or as a stand alone remediation treatment in a base fluid.

Properties

Form:	Liquid	Chemical Family:	Proprietary
Color:	Yellowish	Solubility:	Water and Brines
Odor:	Citrus	Wt. per Gal.:	7.851 lbs.
Charge:	Nonionic	Flash Point:	78° F

Application

ARC CBM Regain™ is a CBM remediation fluid system enhancer.

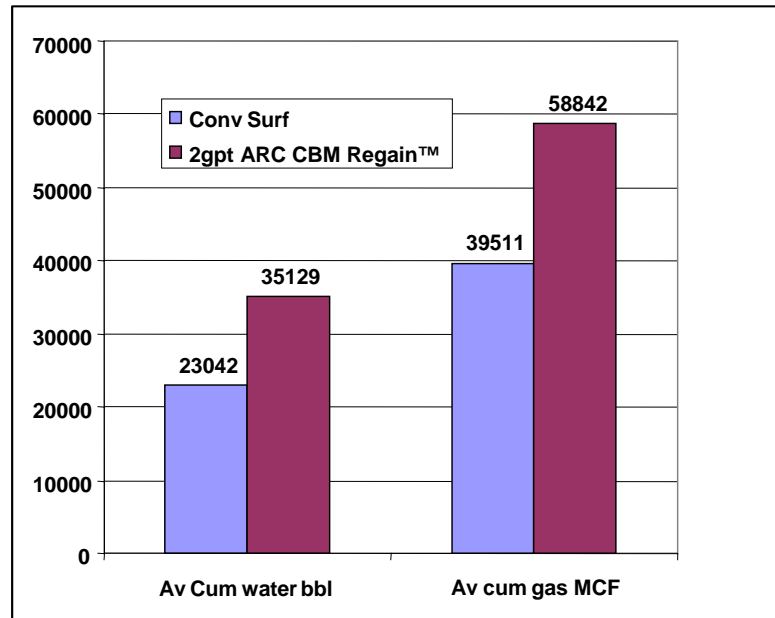
CBM reservoirs are highly susceptible to having their permeability to hydrocarbons reduced when foreign fluids are introduced to them during the drilling and cavitation processes. Significantly better production performance is achieved when multiple phase interfacial tensions between liquids, semi-solids and solids within a remediating fluid and a reservoir are minimized. By relieving the hindrance of multiple phase interfacial tension the products penetrate faster and further providing a better spend of the treating additives. **ARC CBM Regain™** provides multiple phase interfacial tension reduction by more than 50 % between all fluids, solids and semi-solids encountered as it penetrates the reservoir. This translates into:

- improved utility of remediating fluids through,
 - faster penetration,
 - deeper penetration,
 - more efficient spend,
- enhanced substrate and black water release from the reservoir,
- faster clean-up due to reduced flow back pressures,
- and a regain of production as ideal permeability to hydrocarbons is reestablished within the reservoir.

Case History

ARC CBM Regain™ improves flow back.

The following are remediation results on wells in the Rocky Mountains. A group of wells were stimulated with and without the addition of **ARC CBM Regain™** to the fracturing fluid to obtain qualitative and quantitative data. The coal reservoir is at 3,000 ft and 80°F. The treated wells have a perm of 0.1 md on the average with a net pay of 30 ft. The **ARC CBM Regain™** treated wells returned 50% more water and produced 50% more gas on a cumulative basis over six months.



Six month average cumulative water and gas production
In coalbed methane in 3 wells with conventional
surfactant (foamer) and in 3 wells with a foamer+ 2 gpt
ARC CBM Regain™ treatment.

ARC CBM Regain™ is typically used at 2 gallons per 1,000 gallons of base fluid in remediation treatments. This can vary depending upon the history of the well. With this in mind, ARC would prefer to review your wells history and provide a treating suggestion as an effort to achieve your wells best performance potential.

Compatibility

ARC CBM Regain™ is generally compatible . . .

ARC CBM Regain™ is generally compatible with cationic, anionic and amphoteric additives. A compatibility test is advised before use with other surfactants.

Handling and Storage

* Refer to Material Safety Data Sheet . . .

Keep drum tightly sealed to avoid contamination. **ARC CBM Regain™** may cause eye, skin and respiratory tract irritation by contact with the liquid or vapors. Do not breathe vapors, especially in confined areas. Use with adequate ventilation. Recommend use of splash goggles and rubber gloves. Refer to the Material Safety Data Sheet for more detailed information.

Packaging

Specialty packaging is available . . .

ARC CBM Regain™ is available in 5 gal. pails, 55 gal. poly drums, 330 gal. bulk tanks, or bulk transport loads.

Questions & Answers

ARC Fluid Technologies, LLC “Offering You Tomorrow’s Solutions Today”

If you would like to know more about the ARC Micro-solution Technologies and how they can improve your well performance please contact us at:

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