

MATRx™ EOR TECHNOLOGIES

- INNOVATIVE** Sample, assess, inoculate and feed – unique in the industry
- SIMPLE** Straightforward operational process
- EFFECTIVE** Maximum extraction of trapped oil



RELEASING SCIENCE, RECOVERING OIL

MATRx™ EOR Technologies by DuPont provide a natural solution for increased oil recovery from water flooded reservoirs. Using unique microbes and nutrients customized for each oil reservoir, MATRx™ achieves maximum extraction of trapped reserves. Contact DuPont at meorinfo@dupont.com for more information about the specialized MATRx™ technology solution for you.

DuPont
Industrial Biosciences



Learn more. www.meor.dupont.com

MATRx™ ENHANCED OIL RECOVERY TECHNOLOGIES

MATRx™ IS UNIQUE.

MATRx™ EOR Technologies increase the recovery of oil in waterflooded reservoirs using a distinctive process, in which the indigenous microbe population is exploited to maximize oil recovery. Developed by DuPont, and backed by successful lab and field trials, MATRx™ offers a low-risk, low-capital solution for enhanced oil recovery.

MATRx™ IS THE NEXT GENERATION MEOR TECHNOLOGY.

MATRx™ identifies naturally-occurring microbes in each reservoir that can facilitate bioplagging and reduce residual oil saturation. The reservoir can then be inoculated with the favored microbes. DuPont

research has shown inoculation to be a critical step necessary to the overall success of MEOR technologies. As shown in Figure 1, a pair of identical slim tubes were set up to measure bioplagging. Both slim tubes were treated in an identical manner using “live” injection water to provide the background of organisms present in the well. One was inoculated with the preferred microbe while the other was not. Both were fed with nutrients. Only the inoculated slim tube presented the desired bioplagging mechanism.

SLIM TUBE PRESSURE DROP

INOCULATED ON DAY 15, SHUT IN TIL DAY 22 (Live injection water used)

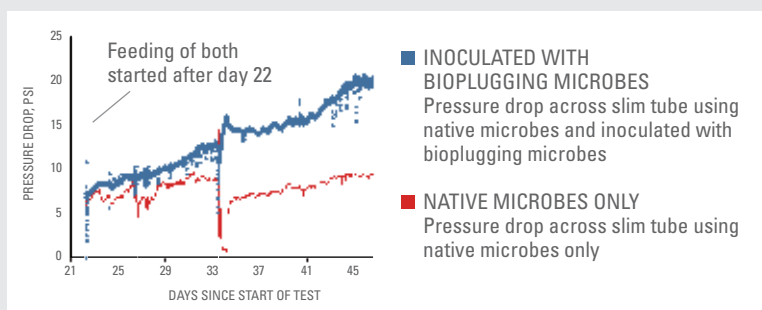


FIGURE 1. – Slim tube bioplagging test showing the contrast between using a microbe and nutrients selected for bioplagging compared to nutrients only. Authentic fluids (live injection water and dead oil) used.

MATRx™ uses customized nutrients to feed favored species to ensure downhole growth and success. The DuPont proprietary injection system protocol ensures that nutrient effects are propagated far beyond the wellbore to prevent wellbore fouling.

WHY MATRx™ EOR TECHNOLOGIES BY DUPONT?

DuPont has been bringing world-class science and engineering to the global marketplace in the form of innovative products, materials, and services since 1802. MATRx™ EOR Technologies draw upon DuPont expertise in the chemical and biological sciences, and further expand our offerings to the oil and gas industry. After nearly a decade in development, and now commercialized with proven lab and field results, DuPont is proud to offer an EOR technology that can help increase oil production safely and reliably with low capital investment, backed by our longstanding commitment to quality. Contact DuPont at meorinfo@dupont.com to see if MATRx™ is the right solution for your reservoir.

Learn more. www.meor.dupont.com

ONLY MATRx™ CAN DELIVER THE FOLLOWING BENEFITS:

- ✓ Low capital investment
- ✓ Customized solution
- ✓ Operational simplicity
- ✓ No wellbore fouling
- ✓ No corrosion or scaling issues
- ✓ No difficult-to-treat emulsions
- ✓ Reversible reservoir effects
- ✓ No waste management issues
- ✓ DuPont technical and field support