



## MAYCO TREAT

### INTRODUCTION

MAYCO TREAT will aid in the prevention or removal of water or emulsion blocks in an oil producing zone and will maintain a water wet sand condition in an oil producing zone. TREAT is a liquid blend of surface active agents with a density of 8.0 ppg and may be used in any water base fluid or straight brine.

### SUGGESTED APPLICATIONS

When hydrocarbons are present, but wells do not produce as expected, low productivity is usually the result of one or a combination of the following:

1. Particle blocking
2. Low permeability
3. Fluid blocks in the pore spaces
4. Oil wet formation

Fluid blocks and oil wet formation are two sources of mayor damage which are often neglected. Many wells experience low productivity following initial completion or a workover because of these two problems. The proper use of MAYCO TREAT will help to eliminate these sources of low productivity.

### FLUID BLOCKS IN PORE SPACES

Fluid blocking involves the plugging of the producing formation with an emulsion or by the invasion of water. Water and chemicals from the drilling or workover fluid can form spontaneous emulsions with oil in the formation. High water saturations around the well-bore during the drilling, completion, or workover operation can also cause a considerable loss of production. The water causing the high water saturation may come from the formation itself or from the drilling or workover fluid.

### OIL WELL FORMATIONS

Oil wet formation refers to the problem of lower productivity when a formation becomes oil wet. To maintain highest productivity, it is desirable to maintain a water wet condition around the bore hole. These are not unresolved situations. The proper use of MAYCO TREAT will:

- Break or prevent emulsions
- Remove or prevent water blocks
- Establish favorable wettability characteristics for the reservoir rock
- Displace oil from oil-wet particles and fines

The strong water-wetting properties of MAYCO TREAT plus its surface tension reducing capabilities will prevent damage due to emulsion or water blocking and/or oil wettability. The surface activity of MAYCO TREAT does not diminish as salinity increases. MAYCO TREAT is oil soluble, water dispersible and is water-wetting in both sand and limestone formations. MAYCO TREAT is soluble in the carrier (or treating fluid). You cannot overtreat with MAYCO TREAT, which can result in treating failures or more severe formation damage problems. MAYCO TREAT is compatible with other chemicals encountered in the well bore.

### MIXING PROCEDURES

MAYCO TREAT should be added to any workover fluid or produced or artificial brine in a concentration of 20 gallons of TREAT per 100 barrels of fluid.

Should it be necessary to remove a water or emulsion block, MAYCO TREAT should be used as a slug type treatment at 5 to 10 gallons of TREAT per foot of perforations.

### PACKAGING

MAYCO TREAT is packaged in 5 gallon pails or 55 gallon drums.

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