

## Frac Water Clarification for Reuse

Frac water samples obtained from several locations were tested at ambient temperature, looking for water clarity and minimum sludge volume.

The samples ranged in color from pale yellow to black; in turbidity from slightly hazy to high opacity; in solids loading from low to medium. pH ranged from 6.5-7.5.

**In all cases the small amount of free oil was removed as completely as possible.**

Two \*ECA Water Clarifiers, ECA 1350 and ECA 15-2, performed equally well on all 4 samples.

- Typical dosage 1000-2000 ppm
- Floc settled in every case, but was readily floatable, should continuous treatment by flotation be desired.
- For floc filtration, subsequent pH adjustment to ~ 8.5 yielded larger floc that was readily retained by a 25-50 micron filter.
- ALL treated waters were crystal-clear, colorless to very pale yellow.
- Floc volume was fairly small.

*\*Trademark of Emulsions Control, Inc.*

2300 Tidelands Ave National City CA 91950; Tel (619) 656-8899/98; Fax (619) 477-7147; [eci-info@emulsionsonline.com](mailto:eci-info@emulsionsonline.com)

