

**PROPOSING AN ENVIRONMENTALLY FRIENDLY WELLTESTING METHOD
FOR IRANIAN OIL FIELDS**

Shahin Kord*

National Iranian Oil Company
Room 282, Reservoir Engineering (Studies)
NISOC Main Office (char tabagheh)
P.O. Box 61335-1579
Ahwaz, IRAN
Voice: +98(611)9123373
Fax: +98(611)4434729
Email: kordl.s@nisoc.ir

In reservoir engineering, well test methods are used to obtain data and information about both the well and the reservoir. These data include reservoir behavior, reservoir boundaries, fluid samples, skin factor and other flow related parameters. Nowadays, due to HSE (Health Safety Environment) concerns, several methods are proposed to achieve "zero emission" goal by no burning and no hydrocarbon flow to surface. In Iranian oil fields, the path of conducting a welltest results in flowing of hydrocarbons on the surface and finally burning the produced hydrocarbons. In this study, all emission free welltesting methods: closed chamber test, harmonic testing and downhole production / reinjection, are analyzed. Then a modification of one of these methods is proposed to use in Iranian oil fields, considering the characteristics, limitations and facilities of these fields. Governing equations and a schematic of the method are given. This proposed method provides reliable data and attains HSE goals.