

LIST OF PUBLICATIONS & PATENTS

Author: John M. Williams, Ph.D.

Publications:

1. Phase Equilibria Studies of Mixtures. Thesis submitted to the University of Exeter for the degree of Doctor of Philosophy in the Faculty of Science. February 1979.
2. Apparatus for studying phase equilibria. Phase equilibria of carbon dioxide + 2,2-dimethylpropane. J. Chem. Thermodynamics 1980, 12, 265-275.
3. Prediction of phase equilibria using the Redlich-Kwong equation of state. J.C.S. Faraday II, 1980, 76, 1045-1049.
4. PVT measurements on gas condensate fluids. Paper presented at the North Sea Condensate Reservoirs & their Development conference. London Press Centre. May 24th, 1983.
5. Determination of the molar mass of petroleum distillation residues using gel permeation chromatography. Journal of Chromatography, 312 (1984) 261-272.
6. Equations determine locus of PVT curves. Oil and Gas Journal, October 21, 1985, 79-83.
7. New system provides continuous quantitative analysis of gas concentration in the mud during drilling. SPE Drilling Engineering, September 1991, 219-224 (Personally presented paper at the 1989 SPE Fall Meeting in San Antonio, Tx).
8. Getting the best out of fluid samples. J. Petroleum Technology, September 1994, 752.
9. Fluid Sampling under adverse conditions. Revue de l'Institut Français du Pétrole, Vol. 53, No. 3, May-June 1998, 355-365.
10. Identifying and Meeting the Key Needs for Reservoir Fluid Properties - A Multi-Disciplinary Approach. SPE 49067 II, 27-30 September 1998, 315-330.
11. Sampling Petroleum Reservoir Fluids. Recommended Practice 44, 2nd Edition, American Petroleum Institute, March 2003.
12. What's New in Reservoir Fluid Sampling, Well Test Analyst, Saudi Aramco Well Testing Unit, Vol. 4, Issue 1, March 2003.
13. Getting Reliable On-Site H₂S and CO₂ Concentrations for Anti-Corrosion Measures in Gas Wells, SPE 81495, Poster presented at the Middle East Oil Show, Bahrain 9-12 June 2003.
14. Getting Reliable On-Site H₂S and CO₂ Concentrations for Anti-Corrosion Measures in Gas Wells, Saudi Aramco Journal of Technology, Summer 2003, 16-26.

Publications pending:

15. Fluid sampling, Chapter 4, General Engineering Section, Part II, Fluid Properties and Behavior, Petroleum Engineering Handbook, Society of Petroleum Engineers, 2003.

Patents:

16. Measurement system and method for quantitatively determining the concentrations of a plurality of gases in drilling mud. United States Patent N° 4,887,464. Dec. 19, 1989.
17. Configuration de fonds de puits pétrolier pour échantillonnage de fond (Downhole sampling configuration). French patent N°. FR 2 741 664. 30th May 1997.