SPE de Argentina Asociación Civil

HYDRAULIC FRACTURING - UNCONVENTIONAL RESERVOIRS

DENIS GAUDET

FECHA:	Lunes 27 al 31 de Octubre de 2014
LUGAR:	YPF – Macacha Güemes 515 – Puerto Madero – Bs.As.
HORARIO:	8:30 a 12:30 h 13:30 a 17:30 h.
TRADUCCIÓN:	Simultánea
VALOR INSCRIPCIÓN:	Socios 2.900 USD y no socios 3.100 USD.
CIERRE INSCRIPCIÓN:	Viernes 10 de Octubre
IDIOMA:	Inglés con traducción
INSCRIPCIONES:	Info@spe.org.ar indicando nombre y apellido, curso solicitado y Empresa a la que pertenece.
IMPORTANTE:	Disponer de notebook, para la realización de ejercicios.

PROGRAMA DEL CURSO

Well Completion

- Impact of Unstable and Stable Shale
- Open Hole and Cased Hole Completion Technology
- Application of CAPPA Software

Well Stimulation

- Overview of Hydraulic Fracture Stimulation
- Planning a Hydraulic Fracturing Program for an unconventional reservoir
  - Open Hole
  - Cased Hole
  - Perforating
- Multiple Fracturing Procedures and the Application of Packers Plus Technology
- Slick Water Fracturing
- Low Polymer Gel Systems

Importance of hydraulic fracture diagnostics

- What is it
- Why it is done
- How it is done
- Why it sometimes fails
- Why we need diagnostic methods
- How the results of a diagnosis can be applied to improve future jobs

Indirect diagnostic techniques

- Analysis of pressure response
  - During treatment
  - Immediately following treatment pumping
- Comparison of formation flow and pressure build-up characteristics before and after treatment
- Comparison of production before and after treatment
- Surface tiltmeter array

Direct (Near well bore) diagnostic techniques

- Downhole Tiltmeters in treatment well
- Treatment well microseismicity
- Magnetic particle distribution and detection
- Multi-isotope radioactive tracer distribution and detection

Direct (Far well bore) diagnostic techniques

- Downhole Tiltmeters in adjacent well
- Adjacent well microseismicity

Hardware and Software Requirements

- Hardware
- Software – Fracture Simulation Models
  - GOHFER
  - FracPro
  - MFrac
- Analysis
- Comparison of Fracture Simulation Models
- Case Study using GOHFER

Case Studies

Problems using information from unconventional oil and gas wells will be used for class exercises.

CV DEL INSTRUCTOR

Résumé Summary for Denis Gaudet

Denis has over thirty five years of experience specializing in conventional and staged hydraulic fracturing and horizontal and multi-lateral drilling technology. He has worked extensively internationally completing work and training assignments in Europe, North Africa, Asia and South America. He has delivered many technical workshops and courses for the Canadian Petroleum Training Institute on topics such as Unconventional Gas, Heavy Oil Development, Horizontal Drilling, Completions, Production Operations and Well Workover technology. He has used his extensive, practical work experience with Halliburton, Nowsco and Fracmaster as a basis for his current consulting activities and training programs.