

2013년도 제3차 해외전문교육 개요

- 1. 교 육 명 : 『Basic Hydraulic Fracturing』
- 2. 교육수준 : Basic
- 3. 교육기관 : IFP Training社 (프랑스)
- 4. 교육일시 : 2013. 7. 1(월) ~ 7. 5(금), 9:00 - 18:00
- 5. 교육장소 : 해외자원개발진흥재단 석유가스교육연구센터(역삼동)



6. 교육목표

- 가. To identify the relationship between fracturing parameters and well productivity enhancement
- 나. To know what a hydraulic fracture is, what the input and tools are to design fracturing operations
- 다. To identify what materials, equipment and procedure are used for fracturing and what constitutes a successful job

7. 세부내용

This program provides participants with a technical overview of hydraulic fracturing.

This program is recommended for the following individuals or organizations: Drilling, completion or production engineers, supervisory personnel or laboratory, non-specialized in wellbore treatments

(Day 1)

1) INTRODUCTION TO HYDRAULIC FRACTURING

- Productivity index, skin effect, flow efficiency
- Damage in the formation and in the pack
- Candidate selection

2) DESCRIPTION OF THE PROCESS

- In situ stress, fracture orientation and fracture propagation
- Different types of pressures: net pressure, tortuosity, friction
- Fluid leak-off, slurry efficiency, dimensionless fracture conductivity.

(Day 2)

3) FRACTURING FLUIDS, PROPPANTS AND FRACTURE CONDUCTIVITY

- Types of fracturing fluids
- Types of proppants
- Fluid and proppant selection

(Day 3)

4) INPUT AND FRACTURE DESIGN

- Requirement for fracture design
- Fracture growth analysis
- Hydraulic fracturing models

(Day 4)

5) EQUIPMENT AND PLACEMENT TECHNIQUES

- Surface pumping equipment
- Placement techniques in vertical and horizontal wells
- Planning and executing operation

(Day 5)

6) FLOW BACK, FRACTURE MAPPING AND POST-JOB ANALYSIS

- Flow back techniques: wellhead isolation tool, frac valve
- Mapping: well test, tracer and micro-seismic
- Post-job evaluation

7) QUIZ, ASSESSMENT AND FEEDBACK

8. 강 사 : Mr. Damien Despax

- 국적: 프랑스
- 직위: Senior Petroleum Consultant
- 언어능력: 영어 - 능숙, 프랑스어 - 능숙

<참 고> 강사 이력서 1부. 끝.