

JFE LEARNING MODULE

DIMENSION BID

TASKSHEET 06 - Basic Well Control

OBJECTIVES

Upon completion this task you should be able to:

THEORY

| | | |
|----|--|---|
| 1 | Describe the negative impact and effects of a well control incident. | ✓ |
| 2 | Describe what is the meaning of "Blow Out". What can cause it and what are the dangers. | ✓ |
| 3 | Define the term "well integrity management" and explain why this is important. | ✓ |
| 4 | Define the term hydrostatic pressure, formation pressure and fracture pressure, overbalance and under balance pressure. | ✓ |
| 5 | Discuss the differences between an open hole, cased hole and production wells with respect to well head pressure. | ✓ |
| 6 | Discuss the principle of the Mud systems used when drilling wells. Describe what is meant by overbalanced and under balanced and when these would occur. | ✓ |
| 7 | Define the term "barrier" and principle of barrier envelopes. | ✓ |
| 8 | Explain the principles of different barrier types. | ✓ |
| 9 | Define the terms "primary" and "secondary" barriers. | ✓ |
| 10 | Understand testing barriers concept: Inflow test, pressure test and why integrity testing is used. | ✓ |
| 11 | Explain the principles of the different well control methods. | ✓ |
| 12 | Describe how hydrates form and how to prevent them. | ✓ |
| 13 | Explain about Well Shut In and needs for operation. | ✓ |
| 14 | Define the management of operation regarding the well control. | ✓ |

Grade:

100 %

Supervisor
Signature:

PRACTICAL

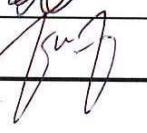
| | | |
|---|--|---|
| 1 | Perform calculation for Hydrostatic Pressure, Fracture Pressure, Formation Pressure. | ✓ |
| 2 | Perform calculation to determine underbalance and overbalance pressure of the well. | ✓ |
| 3 | Pass written assessment for Module 6. Total Marks = _____ % | ✓ |

Grade:

100 %

Supervisor
Signature:

COMMENTS BY SUPERVISOR

| | | | | | |
|-----------------|---------------------|--------------------|--|-------|------------|
| Name: | MATHIAS RAUTH PARAG | Signature: |  | Date: | 4 DEC 2023 |
| Manager's Name: | FARIS MOHD FIRDAUS | Manager Signature: |  | Date: | 05/12/23 |