

COGMWT3

Run the (mechanical wireline) operation



Overview

This unit is about running the mechanical wireline operation. You will be involved in activities such as:

- 1 entering the wellbore
- 2 carrying out the service function
- 3 removing the toolstring from the wellbore

COGMWT3

Run the (mechanical wireline) operation

Performance criteria

- You must be able to:*
- P1 effectively agreed, implemented and maintained appropriate safety measures
 - P2 confirmed running controls to be preset to required reference datums
 - P3 effectively equalised the pressures and entered the wellbore
 - P4 effectively run the assembly in the hole within agreed parameters
 - P5 accurately identified faults and defects in the assembly and taken appropriate remedial action
 - P6 accurately recorded all relevant information
 - P7 effectively agreed, implemented and maintained appropriate safety measures
 - P8 effectively manipulated surface and downhole equipment within agreed parameters
 - P9 accurately identified faults and defects in the assembly and taken appropriate remedial action
 - P10 accurately recorded all relevant information
 - P11 accurately made all relevant calculations
 - P12 effectively agreed, implemented and maintained appropriate safety measures
 - P13 effectively pulled the assembly to the surface within agreed parameters
 - P14 effectively removed the assembly from the wellbore
 - P15 effectively equalised the pressures and left the well in a safe condition
 - P16 effectively prepared a complete and accurate report of all operations and submitted it to the relevant personnel
 - P17 worked safely in accordance with operational requirements

COGMWT3

Run the (mechanical wireline) operation

Knowledge and understanding

You need to know and understand:

- K1 the principles of running controls and preset datums
- K2 how to run the assembly within required parameters (to include speed, line tension)
- K3 the principles of pressure equalisation
- K4 how to identify equipment faults and defects and what remedial action is available to you (to include report, repair, record, replace, adjust)
- K5 how to carry out pressure equalisation within equipment
- K6 what information is required and the required frequency of reading
- K7 the principles and limitations of surface and downhole, and other associated, equipment
- K8 how to run the assembly within required parameters (to include speed, line tension)
- K9 how to identify equipment faults and defects and what remedial action is available to you (to include report, repair, record, replace, adjust)
- K10 what information is required and the required frequency of reading
- K11 how to calculate volumes
- K12 the principles and calculations associated with Hydrostatics (to include SI and oilfield units)
- K13 how to access and interpret relevant reference drawings, charts and graphs
- K14 how to pull the assembly to surface within required parameters (to include speed, line tension)
- K15 how to equalise pressures and make the well safe the required content of the final report and who to pass it to on completion

COGMWT3

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Additional Information

Scope/range related to performance criteria

1. how to select, use and care for PPE (to include sight/hearing protection, gloves, footwear, hard hats, respirators)
2. the implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
3. how to interpret operational requirements (e.g. relevant policies, procedures, instructions, codes of practice, standards, schedules)
4. the well parameters to be considered (to include pressure, temperature, depth, deviation, completion type, fluid type, flowrate)
5. the effects of the installation types (i.e. fixed and floating and land)
6. effects of the environment
7. the principles and calculation of weak points
8. the principles of hydrate formation (in well and equipment) and its prevention and decomposition
9. how to access and interpret information for conditions and limitations of the well
10. principles of well control using mechanical barriers and surface pressure control equipment
11. winch
12. stuffing box
13. grease injection system
14. downhole toolstring (to include rope socket, stem, jars, knuckle joint)
15. power supply
16. wellhead/ESD system
17. hand tools
18. lubricator/riser
19. pressure equipment
20. ancillary wellhead equipment
21. wireline valve
22. hydraulic controls

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