

أجب عن جميع الأسئلة

Question One: (15 Marks)

1. What is Petroleum? And what are the main types of petroleum or hydrocarbons?
2. List the four hydrocarbon series with writing the chemical formula?
3. What is the API for crude with specific gravity (S.G) of 0.8?
4. Define the following terms:
 - a. Sour crude
 - b. Sweet crude
 - c. Pour point
5. Draw a chart showing the journey of oil from the beginning to the end.

Question Two: (15 Marks)

1. What is the meaning of:
 - a. Gas Oil Ratio
 - b. Reserves
 - c. Igneous rocks
 - d. Porosity
 - e. Permeability
2. Discuss the three common types of reservoir drive mechanisms?
3. An oil reservoir having an area of 300 acres, a thickness of 100 feet, effective porosity of 26%, initial water saturation of 30%, and oil formation volume factor of 1.15 bbl/STB. Estimate the STOIP? What will be the total reserves if the recovery factor was 40%?

Question Three: (15 Marks)

1. Mention the basic types of well completion & the basic types of flow conduits?
2. What are the basic components of a simple producing system?
3. Give the functions of the following production equipments:
 - a. Wellhead
 - b. X-mass tree
 - c. Packer
 - d. Sub - surface safety system

Question Four: (15 Marks)

1. What are the common causes for remedial or workover operations?
2. List the most widely used methods for artificial lift.
3. Draw sketches illustrating the following:
 - a. Vertical separator
 - b. Onshore facilities layout
4. Discuss the transportation of oil and gas from on/offshore fields till reaching final terminal?

انتهت الأسئلة