OIL AND TERMINOLOGIES

ERNATION

FRRIL

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Dr. Armayau Alhaji Sani Course : Oil and Gas Accounting Course Code: ACC 404

Learning Objective

In this section, students are expected to learn basic terminologies in oil and gas accounting. This is because oil and gas sector is different and distinct from other sectors like manufacturing, services and financial sector.

These terminologies will aid student's understanding peculiarities of oil and gas sector and its accounting treatment.



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1. Royalty Interest::

A share of production or revenue paid to the mineral owner or government. In KRG, all oil and gas companies paid 10 of the total oil produced.

2. Cost Oil: The share of production allocated to the operator pursuant to a production sharing contract to pay for certain exploration costs, Production Costs and/or Development Costs. In Kurdistan, the operators are entitled to a maximum of 40% of the oil Produced.



3. Joint Operating Agreement (JOA): An agreement between two or more parties that outlines the terms and responsibilities for the exploration, development, and operation of an oil and gas property.



4. Asset Retirement Obligation (ARO): The estimated cost of dismantling, removing, and restoring an oil and gas asset at the end of its useful life.

5. Net Revenue Interest (NRI): The percentage of revenue received from the sale of oil and gas after royalty payments and other expenses.



Oil and Gas Terminologies Cont

6. Production Sharing Agreement (PSA): An agreement between a company and a government that specifies the terms of sharing profits from oil and gas production.

7. Lease Operating Expense (LOE): The expenses incurred in operating a well, such as labor, equipment, maintenance, and repairs.



8. **Reserves:** The estimated amount of oil and gas that can be recovered from a property.

9. **Commercial Well:** another term for a Well that has Production in Paying Quantities or Production in Commercial Quantities

10. Dry Hole: a Well drilled with the intention of producing Hydrocarbons that does not actually yield Production in Paying Quantities.



11. Depreciation is associated to the decrease in the values of physical or tangible assets.

12. **Depletion:** The reduction in the value of an asset over time due to extraction or use.

13. Amortization is associated with the expiration of the cost of intangible assets. The most commonly used method of computing amortization of oil and gas properties is the "unit of production" method



Calculation of Amortization

- The formula for the unit of amortization method is:
- (C AD S) P/R
- Where: C= Capital cost of equipment
- AD= Accumulated DD&A •
- S= Salvage Value
- P= Production during the year (in barrels)
- R= Reserves remaining at the beginning of the year

An alternative form of the above formula is:

Production for the period X Unamortized cost at the end of period Reserves at beginning of period



Question One

Tishk Petroleum Company had the following data at end of its financial year ended 31st December, 2021. You are required to calculate the DD&A for that year.

- Capitalized cost at the end of year \$1,700,000
- Accumulated amortization \$100,000
- Reserves estimate at beginning of the year 5,000,000 bbls
- Production during the year 250,000 bbls



Solution to Question One

Amortization would be calculated as follows: <u>250,000 bbls</u> X (1,700,000-100,000)=\$80,000 5,000,000 bbls



Question 2

Kabuga Petroleum Company PLC had the following data at end of its financial year ended 31st December, 2021. You are required to calculate the DD&A for that year.

- Capitalized cost at end of the year N 1,700,000
- Accumulated amortization in prior years N 100,000
- Reserves estimate at the beginning of the year 5,000,000 bbls
- Production during the year 250,000 bbls
- Reserves estimate at the end of the year 4,000,000 bbls



Solution to Question 2

DD&A = Production during the year X Unamortized cost (year end)

- [Reserves estimate (year end) + Production during the year]
- DD&A = 250,000 (1,700,000 100,000)

<u>250,000</u> X 1,600,000 = N 94,118 4,250,000



: (year end) [·]]