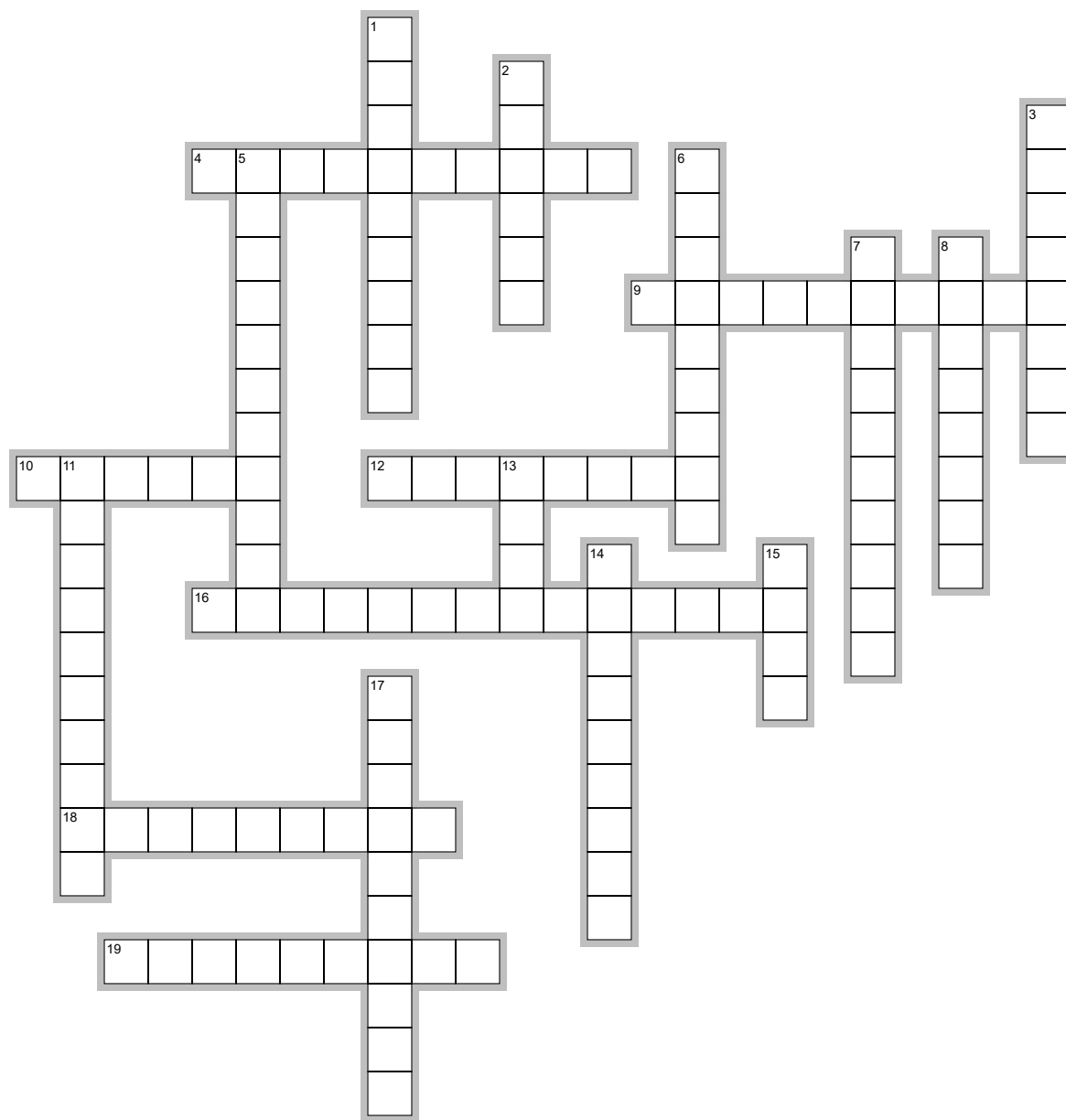


Petroleum engineering-themed crossword puzzle #11

Sobhan Kohanpour



EclipseCrossword.com

Across

4. The amount of oil output; asphaltene deposition can significantly decrease this
9. Attributes or characteristics
10. Effect or influence
12. Force per unit area exerted by a fluid; reduction in this can trigger precipitation
16. Oil produced from difficult conditions (deep water, tight formations) is termed _____ oil
18. Goal or purpose

19. Offshore environment characterized by great water depth (where asphaltene issues can occur)

Down

1. Guarantee of continual flow; ensuring flow _____ is a major challenge with asphaltene-laden crude
2. Measure of the heaviness of molecules; asphaltenes have a high molecular _____
3. Describing an approach that addresses the entire system; a "_____" flow assurance program covers all issues
5. Cleaning or removal of deposits after they form (e.g., solvent soaking is one form of asphaltene

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Down

_____)

6. Bring about or secure; flow assurance programs aim to _____ continuous and economic production
7. Using models and data to foretell when and where asphaltene will precipitate
8. Long pipe used to transport oil; can accumulate asphaltene deposits on its inner walls
11. Action of reducing the severity of a problem; inhibitors provide asphaltene deposition _____
13. Near-wellbore zone damage caused by deposits, often expressed as a “_____ factor” in well performance
14. Measure of a fluid's resistance to flow; heavy oils have high values of this property
15. To obstruct or fill up (as asphaltene do to pore throats and flowlines)
17. Act of stopping something from happening; in flow assurance, asphaltene _____ is better than cure