

Exploration & Production II – PTRT 1473 - Test # 1

Please turn in test Thursday, June 8 at the end of class

Name _____

Textbook – Hydrocarbon Exploration and Production, Chapters 1 and 2, page 265-270

Please answer on this page, not on an attached sheet

1. **Syllabus.** How many tests will there be?
2. How many individual presentations?
3. How many group presentations and when is it due?
4. When is the one Technical report due?
5. True or False? (CIRCLE the correct answer, True or False) If I don't turn a test in, the grade is a "0". And a "0" is significant when calculating average score for grades
6. True or False? No grades are "dropped"
7. Show below how the course final grade is calculated. Page 5 of Syllabus

8. True or False? The digital copy of the textbook is on the Learning Web
9. True or False? We will cover all Chapters in the book except # 14 and 15
10. True or False? I will email or sms the Instructor before class if I cannot attend class so that attendance can be recorded so I don't get dropped
11. True or False? If I am going to miss class, I still need to send my completed test in on the due date, by email or sms photos (small file size)
12. True or False? Final exam can be taken July 25 or 27
13. Two presentation topics that interest me are:
14. True or False? All course work must be turned in by the end of class on Thurs July 27. Any work not completed gets a "0" grade. Grades are entered in HCC system Thurs July 27 afternoon
15. **SPE HCC Chapter.** True or False. HCC Student President is Aileen Lu
16. True or False? Aileen can be emailed at aileen.business.us@gmail.com to join the HCC Chapter and attend events to help get a job
17. True or False? Joining SPE as a student is free
18. **Class # 1 Handouts.** What are 2 web sites to look for oil and gas jobs?
19. True or False? A list of potential oil and gas companies were provided.
20. What are two key messages for students in the Shell Oil meeting summary?

21. True or False? My resume is updated and complete. Instructor will review, if requested
22. True or False? A list of courses and flowchart for AAS Degree were provided

23. True or False? An overview of the petroleum industry schematic was provided. I understand it and I will be able to draw it on a future test
24. **World Oil Production Page.** What is OPEC?
25. What are the top 5 countries for oil production? Use Dec 2016 column and choose from both OPEC and non-OPEC lists. Ignore "Other".
26. From chart, what is world oil supply in 1st quarter of 2017?
27. Explain how oil supply and demand affect oil price per barrel
28. What is approximate oil price today?
29. What is "Brent" and "WTI"?
30. What is "rotary rig count?"
31. What region of the world has the highest rotary rig count?
32. What are the top three oil and gas issues in the world today that concern you. List and describe them briefly
33. **Calculations.** A 45 foot diameter, 15 foot tall tank has 3 feet of water and 8 feet of oil in it. How many barrels of oil are in there? Show calculations below.
34. If you weigh 180 pounds on the scales, how much would you weigh if you float in 14 ppg drilling mud? Show calculations below

- 35. True or False? The specific gravity of air is 2.0. The specific gravity of water is 3.0 because water is heavier than air
- 36. True or False? Ppg = pounds per gallon
- 37. True or False? Oil is 6.8 ppg, freshwater 8.3ppg, saltwater 8.5 ppg
- 38. True or False? There will be calculations on future tests
- 39. **Textbook, Chapter 1.** Figure 1.1 is important to understand. Draw your own version below. This will be done in class

- 40. True or False? NOC's are Normally Open Countries. Page 2
- 41. True or False? IOC's are Petrobras, BP, Petronas
- 42. List 3 oilfield service companies who work on wells

- 43. Textbook, Chapter 2. True or False? Exploration = investigations, geologic surveys, seismic surveys, and exploration drilling.
- 44. True or False? After exploration, all projects proceed
- 45. List 4 options after exploration drilling. Page 4

- 46. True or False? FDP is an abbreviation for how oil Flows Down Pipes. Page 4
- 47. Complete the sentence. Page 4. The FDP's prime purpose is _____

- 48. After the FDP is approved, list the 4 activities that occur before production. Page 5

- 49. Draw a schematic of the 3 phases of production. Page 5

- 50. True or False? Decommissioning means adding new wells when existing wells stop making oil. Page 6
- 51. Describe when it is time to decommission a field. Page 6
- 52. **Textbook, Chapter 2.** True or False? NOCs issue an Invitation to Bid when they want third parties to help develop oil and gas reserves

53. True or False? If you are successful bidder, you have the right to explore for oil and gas. Page 13
54. True or False? Farm-In is selling a share in a block to another company. Page 15
55. True or False? Governments require companies to unitize to develop the field effectively. Draw a simple schematic to illustrate

56. True or False? A production sharing agreement allows a company to get paid for their services or expertise. Page 15, Table 2.1

57. **Other.** Your daughter asks you how electricity is made. What do you tell her?

58. You are ready to start the bbq grill with your family all there. Your son asks “what is the fire triangle?” What do you tell him?

59. What are 3 renewable energy sources?

60. True or False? Since coal is abundant and cheap, its use for generating electricity will increase in all countries

Each question is 1.5 points.