

## Overview of the Petroleum Industry - Test # 5

Please turn test in on Friday, March 31 at the end of class

Name \_\_\_\_\_

Textbook – The Oil and Gas Industry, A Nontechnical Guide

***Please write your answers on this page***

Please read Chap 8 (Transporting Oil)

1. True or False. A separator is a piece of equipment that is near the wells and is used to remove the gas and water from the oil stream. Pg. 132
2. Draw a horizontal separator showing internals and fluid exit lines, liquid levels, meters and control valves. Will be done in March 31 class. Was also done in the March 24 class
  
3. True or False. BS&W is basic sediment and water. Pg. 133
4. True or False. A centrifuge spins the oil sample to get BS&W. Pg. 133
5. True or False. Oil moves 3-8 miles per hour propelled by compressors. Pg. 134
6. True or False. Marine terminals are where oil lines meet and oil is stored in tanks for shipment by marine vessels. Pg. 135
7. True or False. If pipelines don't exist, oil is transported by cargo airplanes. Page 135
8. True or False. Oil pipelines are 4.5 to 48 inches in diameter, coated externally and buried 3-6 feet below the surface. Pg. 135-138
9. Describe what has happened recently in the news regarding the Keystone XL pipeline. Page 137
  
10. Describe how an electric motor and centrifugal pump work. Page 140, fig 8-7

11. Describe 6 ways we inspect and maintain oil pipelines. Pg. 140-144

12. Describe what a 'smart pig' is. Pg. 142-143.

13. Draw a subsea pipeline system from well to production processing platform. Fig 8-10. Pg. 145

14. True or False. Crude oil tankers are classified by their DWT, deadweight metric tonnage. Pg. 150

15. What is a tanker double steel hull? Page 150

16. True or false. Oil can also be transported by railcar or tank trucks. Pg. 151

17. Describe strategic petroleum reserve storage. Pg. 154

18. Draw a salt dome oil storage facility and explain how it works. Fig 8-17. Pg. 153

Each question is 5.5 points