## Overview of the Petroleum Industry - Test # 6

## Please turn test in on Friday, April 7 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 9 (Transporting Gas) and Chap 10 (LNG)			
1		Draw natural gas value chain. Fig 9-1. Pg. 157	
2		True or False. After gas wells are compressors then gas plant, then separator. Fig 9-2, pg. 158	
3		True or False. NGL is natural gas liquids – ethane, propane, butane, pentane. Pg. 158	
4		True or False. LDCs are local distribution companies, such as utility companies. Pg. 158, 159	
5 6		True or False. The BTU content of a gas stream is higher if NGLs are left in the gas. Pg. 158 True or False. Gas pipelines are 20-42 inches in diameter and operate at 200-1500psi. Pg. 162	
		True or False. Pumps are located every 50-100 miles to maintain gas line pressure. Pg. 164	
8		True or False. Because of friction, gas pressure declines with distance. Pg. 164	
9		Describe the 3 types of engine compressor systems for gas. Pg. 164	
1	0.	List 5 types of gas meters. Pg. 166-167	

- 11. True or False. Gas can be stored in underground domes. Pg. 168-169
- 12. True or False. Much of the maintenance and repair tasks are the same for gas lines as for oil pipelines. Pg. 170
- 13. List 6 actions to maintain gas pipeline integrity. Pg. 170-171

14.	How is "odorization" used to detect gas leaks. Pg. 176-177
15.	Define corrosion and its contributing factors. Pg. 177
16.	Describe LNG process. Second paragraph, Background, pg. 179
17.	Draw LNG value chain. Fig 10-1, pg. 180
18.	Define sweetening and dehydration. Pg. 182
19.	Draw a full containment LNG storage tank and label it. Fig 10-3, pg. 184
20.	Describe the requirements of LNG tanker ship cargo tanks, pg. 187

Max test score is 100 points. Each question is 5 points