



Title: Searching for Oil Scavenger Hunt—Careers		
Author: Kathy Rusert Acorn High School Mena, AR		
Course: Science, Careers	Duration: One 45 minute class period	
Grade Level: 8		
Objective: Students will learn about jobs in the Oil and Natural Gas Industry.		
Summary of Lesson: Students will use the internet to learn about careers in Oil and Natural gas. They will “strike oil” when they unscramble the letters in the boxes. In <i>Careers in Oil and Natural</i> lesson, students will research a career from the list.		
Standards: Arkansas State Frameworks		
Subject:	Code:	Standard:
Science	ESS.8.8.11 (may want to link Careers from other areas, as well)	Investigate careers related to changes in the Earth.
Teacher Enhancement Support Systems: Managing Classroom Procedures, Managing Student Behavior, Engaging Students in Learning		
Instructional Strategies and Practices: Identifying Similarities and Differences, Practice, Setting Objectives and Providing Feedback, Game, Technology		
Bloom’s Level: (Highest Level Only) Analyzing		
Materials and Resources: Lab Sheet		
Formative Assessment: Lab Sheet		
Teaching Notes: Websites and salary information change frequently, update as needed.		



Student Activity:

1. To reinforce a study of careers in oil and natural gas, students will use the websites listed in the student handout to unscramble the career names. See the **Student Worksheet** for a printable copy.
2. In a separate lesson (*Careers in Oil and Natural Gas*), students will research one of the jobs listed.

Lab Sheet
Careers in Oil and Natural Gas
Teacher Key

This list is a small sampling of careers in the Oil and Natural Gas Industry.

Chemical Engineer	Mechanical Engineer	Petroleum Engineer
Geologist	Mudlogger	Oil Well Firefighter
Floorhand	Truck Driver	Communications Advisor
Bed Truck Operator	Derrickhand	Landman
Geophysicist	Vacuum Truck Operator	Heavy Equipment Operator
Steam Ticketed Operator	Millwright and Machinist	Hydrovac Operator
Oil Production Consultant	Rig Operator	Seismic Operator
Data Analyst	Accountant	Deep Sea Welder
Swamper	Draftsman	Civil Structural Superintendent
District Operations Manager	Roustabout	Jughound

Student Instructions:

Use the websites indicated to identify the career titles and fill in the blanks that match the descriptions. Then solve the puzzle by unscrambling the letters in the boxes. Some of these web sites may change over time. If a web site is no longer available, use key words and phrases to find more current resources.

1. A _____*_____ is the one responsible for finding oil. The expected salary is around \$83,000 per year.

www.howstuffworks.com/environmental/energy/oil-drilling2.htm

2. A _____*_____ is a professional who notes the conditions surrounding the construction of a well. The expected salary is around \$53,000 per year.

<http://www.wisegeek.com/what-does-a-mudlogger-do.htm>

3. A _____*_____ works with mud systems, monitors weight and mixes weight properly while staying in contact with Engineers and Drillers. The expected salary is around \$55,368

www.trinidaddrilling.com/Careers/Jobdescriptions.aspx

4. A _____*_____ refers to a worker who maintains all things in the oil field. It is an official classification of natural gas and oil rig personnel. Working in oil fields they typically perform various jobs requiring little training. The expected salary is about \$42,868.



Student Handout
Lab Sheet
Searching for Oil Scavenger Hunt
Careers in Oil and Natural Gas

This list is a small sampling of careers in the Oil and Natural Gas Industry.

Chemical Engineer	Mechanical Engineer	Petroleum Engineer
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1. A ____ ____ * ____ ____ ____ ____ ____ is the one responsible for finding oil. The expected salary is around \$83,000 per year.

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2. A ____ ____ ____ * ____ ____ ____ ____ ____ is a professional who notes the conditions surrounding the construction of a well. The expected salary is around \$53,000 per year.

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<https://en.wikipedia.org/wiki/Roustabout>

5. A ____ ____ ____ ____ * ____ ____ ____ is the professional who acquires the subsurface mineral rights from landowners for the purposes of oil and gas exploration. That means they make sure their company owns the minerals it will find in the ground. The salary is around \$74,000 per year.



<https://www1.cfnc.org/Plan/For A Career/Career Profile/Career Profile.aspx?id=LOsdvCpgXZiW1RjLFGi2dwXAP3DPAXXAP3DPAX>

6. A _____* _____ acts as a safety lookout for the truck driver by giving him clear hand signals to avoid potential hazards whenever driver is required to back-up. This person sometimes greases, paints, scrubs and cleans trucks and equipment as needed. The salary is around \$52,000 per year.

<https://careersinoilandgas.com/careers/swamper-2/>

7. A _____* _____ determines the presence and the extent of oil and gas deposits in a particular area using seismic equipment. They do so through four key phases: surveying, line clearing, seismic drilling, and data acquisition and recording. Most seismic work occurs in remote locations. The expected salary is about \$136,000

<http://careers-oil-gas.freshwatercreative.ca/careers/seismic-operator>

8. A _____* _____ is a seismic operator's helper. The expected salary is about \$40,079

www.oilfieldworkers.com/seismicjobs.php

9. A _____* _____ evaluates potential oil and gas reservoirs, oversees drilling activities, and uses advanced computers for analysis of exploration data. The expected salary is about \$110,000 per year.

<https://www.glassdoor.com/Job-Descriptions/Petroleum-Engineer.htm>

Unscramble the starred (*) letters:
