

**SOOGA SPRING MEETING
APRIL 17, 2019**

**ANNUAL EDUCATION AND PUBLIC OUTREACH
UPDATE**

**Rhonda Reda, Executive Director
Ohio Oil and Gas Energy Education Program**

OHIO OIL & GAS ENERGY EDUCATION PROGRAM



OOGEEP/ Foundation Operating Board



Jeff Baker, Bakerwell, Inc.



Amanda Finn, Ascent Resources, LLC



Ron Grosjean, KENOIL, Inc.



Melissa Hamsher, Eclipse Resources Corporation



Diana Hoff, Antero Resources Corporation

Bruce Levengood, Sound Energy Company, Inc.

Greg Mason, GeoKat LLC

Karen Matusic, XTO Energy, an ExxonMobil Subsidiary

Sarah Tipka, A.W. Tipka Oil & Gas, Inc.

Clint Cameron, Cameron Drilling Co., Inc.
Matt Sheppard, Chesapeake Energy Corporation
Brian Chavez, Condevco, Inc.

Bill Siskovic, Everflow Eastern Partners, LP
Jim Pitt, EnerVest Operating, LLC

Ralph Talmage, Northwood Energy Corporation
Jackie Stewart, Encho Energy



2018 Funding Changes/ Complications

Assessment Reduction:

1. Natural Gas (50% decrease from \$0.01 (one cent) to \$0.005 (half cent) per gross Mcf.
2. Crude Oil: \$0.05 per gross barrel (including condensate).

Collection Options:

1. Conventional Producers (remains with First Purchaser of Natural Gas and Crude Oil).
2. Horizontal Producers (either first purchaser or approved direct producer pay).

K – 12 STEM
Education Programs
& Teacher
Workshops

Economic Impact
Studies

Workforce & Career
Development

Communications,
Media Relations,
Social Media and
Industry Promotion

Industry Safety and
Firefighter Training

Guest Speaker and
Community Outreach
Programs

Scholarships,
Science Fair &
Scouting Programs



An “Unusual” Oil and Gas Commercial



How Do We Really Explain Our Entire Industry in One Paragraph . . . because sometimes that is all you get!

It is commonly thought that **traxilene** originated from **hoagie shleps**. Through time hoagie shleps was transformed by **gluttux** and **bertonning** into traxilene. As the hoagie shleps changed into traxilene, it **shnuckeled** through **hebbed sobs** to the earth's surface. Sometimes traxilene is trapped by non-hebbed sobs called a **doxel**. It is these underground doxels that are sought by the traxilene industry using **mertil** technology. Certain **glacktics** of traxilene help scientists understand how to get to it. Then the traxilene is **stuttled** so that it can be used for a variety of purposes.

Questions

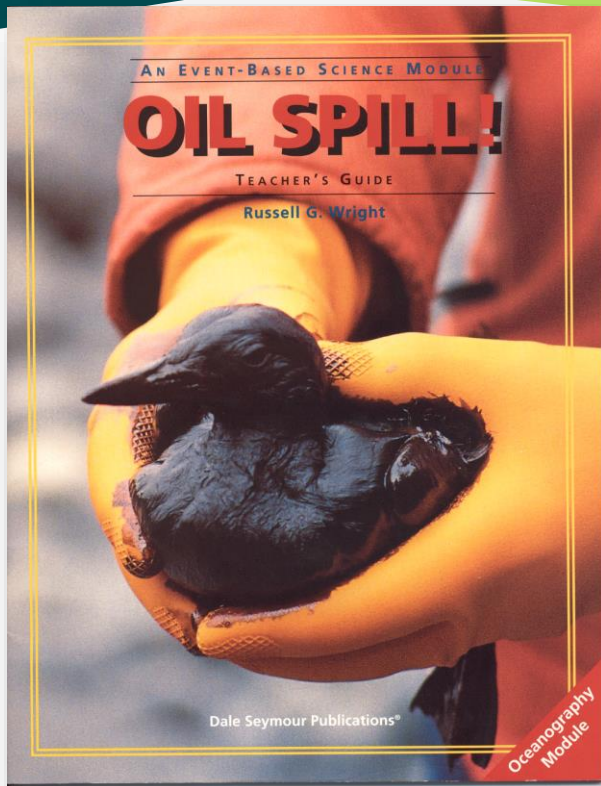
1. What is traxilene made from?
2. How does it get to the earth's surface?

It's All About Vocabulary!

It is commonly known that **crude oil and natural gas** originated from **biotic material**. Through time biotic material was transformed by **heat** and **pressure** into natural gas and crude oil. As the biotic material changed into natural gas and crude oil, it **migrated** through **porous rock** to the earth's surface. Sometimes it is trapped by non-porous rock called a **"trap"**. It is these underground traps that are sought by the oil and gas industry using **seismic technology**. Certain **properties** of natural gas and crude oil help scientists understand how to get to it. Then the natural gas and crude oil is then **processed or refined** so that it can be used for a variety of purposes.

Teacher Programs

What Was A Key Factor For Creating An Energy Education Program?




PLUS: EARTHWORKS
Oceanography
Lesson 15

Name _____
Date _____

4. On the deep seafloor, there are small lumps of minerals. They are called nodules. The nodules contain much manganese. They also contain copper, nickel, and cobalt.

- Below TABLE SALT write MINERALS.
- Outline three or four nodules on the seafloor on the study print.
- Label them NODULES.



Turn to side B of the study print. Continue these activities on side B.

5. In the middle of the map, write RESOURCES.

6. Some gold, tin, silver, and other ores have been found on the continental shelf. On the map the continental shelf is the light blue area next to the continents.

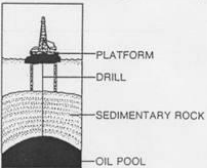
- Below RESOURCES write ORES.
- Draw an arrow from ORES to a wide area of the continental shelf.

7. There are vast amounts of sand and pebbles on the continental shelf. Both are used to construct buildings.

- Below ORES write SAND, PEBBLES.
- Draw an arrow from SAND, PEBBLES to a continental shelf.

8. Under some parts of the continental shelf, oil and natural gas are buried. Below ORES write OIL, GAS.

- Special platforms are built off shore to drill for oil. Many people live and work on these oil rigs. Label the same things on the study print.



(continued)

PLUS: EARTHWORKS
Oceanography
Lesson 15

Name _____
Date _____

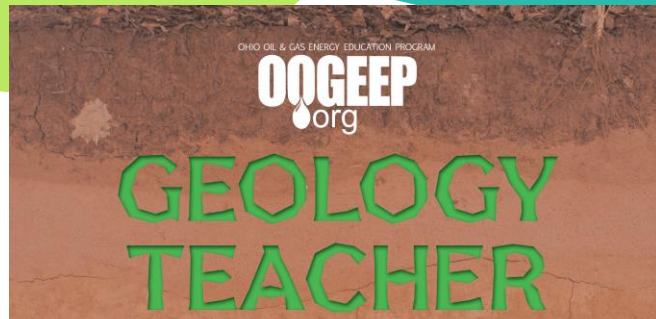
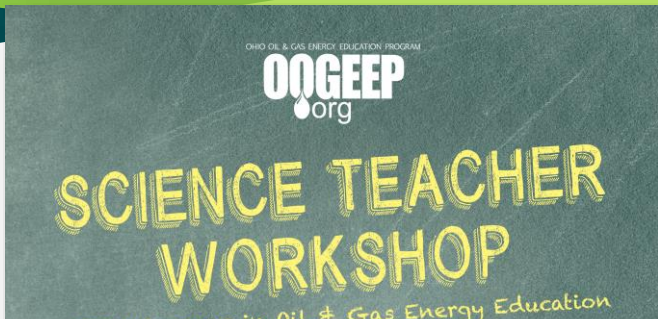
- Oil must be carefully brought to shore. Oil spills pollute seawater, destroy beaches, and kill sea animals and plants.
 - Draw a pool of oil on the water below the platform.
 - Draw a thick black arrow from that oil to the ocean water along the sandy beach in the upper left corner.
 - Along the arrow write OIL SPILL.
 - Along the beach write DESTROYS.
- Use your labels on both sides of the study print. List six resources we get from the oceans.

food	Table salt	Water
seaweed	fish	Nodules
- Which of the resources do you and your family use? For what?

Table salt we use it for food that we make

© 1988 HYSTROM DIVISION OF HERFF JONES, INC.

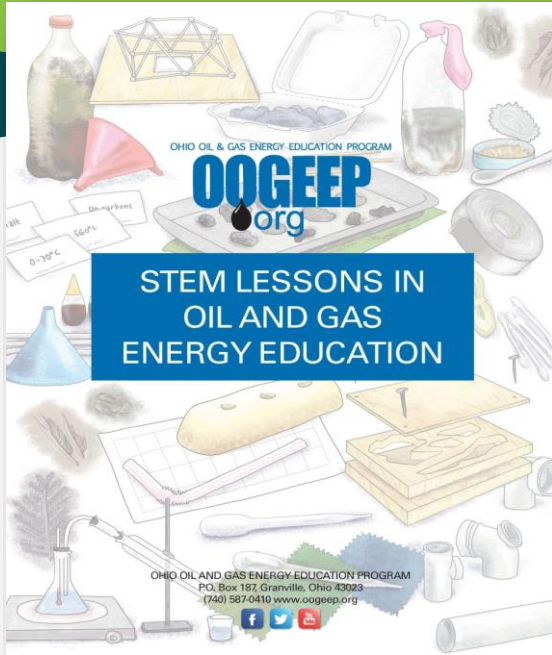
Upcoming 2019 Summer Teacher Workshops



**Brochures available at SOOGA Table
Please engage your teachers/ schools!**



STEM Teacher Workshops



Over 3,000 Teachers from all 88 Ohio Counties and 3 Other States



Geology Teacher Workshops



OHIO OIL & GAS ENERGY EDUCATION PROGRAM

OOGEEP
org

GEOLOGY WORKSHOP CURRICULUM

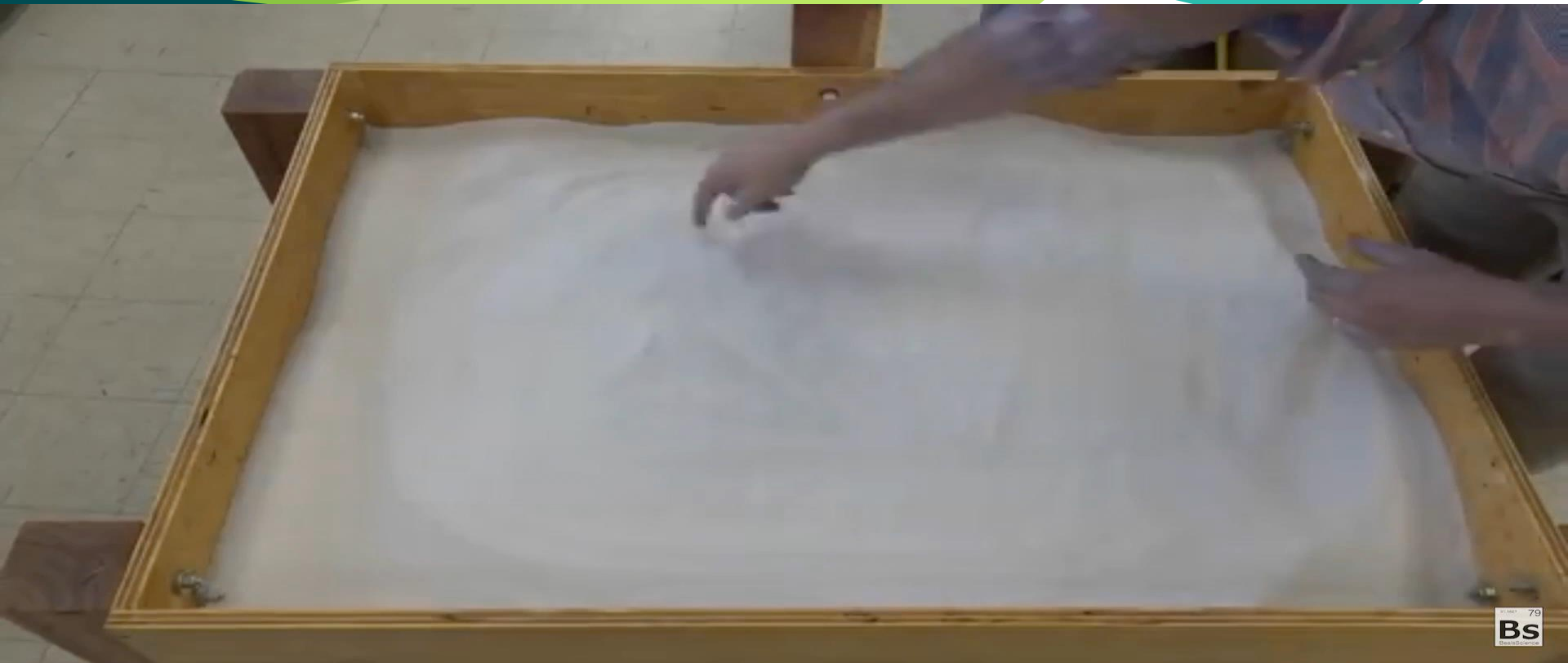
LESSONS DEVELOPED FOR OHIO SCIENCE STANDARDS

OHIO OIL AND GAS ENERGY EDUCATION PROGRAM
P.O. Box 187, Granville, Ohio 43023
(740) 587-0410 www.oogeep.org

[f](#) [t](#) [y](#)

The cover art features a central globe with a colorful cross-section showing internal layers. Surrounding the globe are various geological diagrams, including a map of Ohio with different colored regions, a cross-section of a rock formation, and a diagram of a geological structure. The background is a light, textured surface.

“New” Geology and STEM Technology Activity





2019 Pipeline Award: Craig Whitaker, Perry High School



Past OOGEEP “Pipeline” Award Recipients



[\(2018: OOGEEP Industry Safety Training\)](#)
Marty Miller, Alliance Petroleum Corporation



[\(2017: OOGEEP Boy Scout Project\)](#)
Tim McNutt, Dominion



[\(2016: OOGEEP Workforce Development/
Economic Impact Studies\)](#)
Dr. Robert Chase, Retired Marietta College



[\(2015: OOGEEP Firefighter Training\)](#)
Chief Brent Gates, New Concord Fire Department



[\(2014: OOGEEP STEM Teacher Workshops\)](#)
Jane Hunt, Environmental Science Teacher
Upper Arlington High School



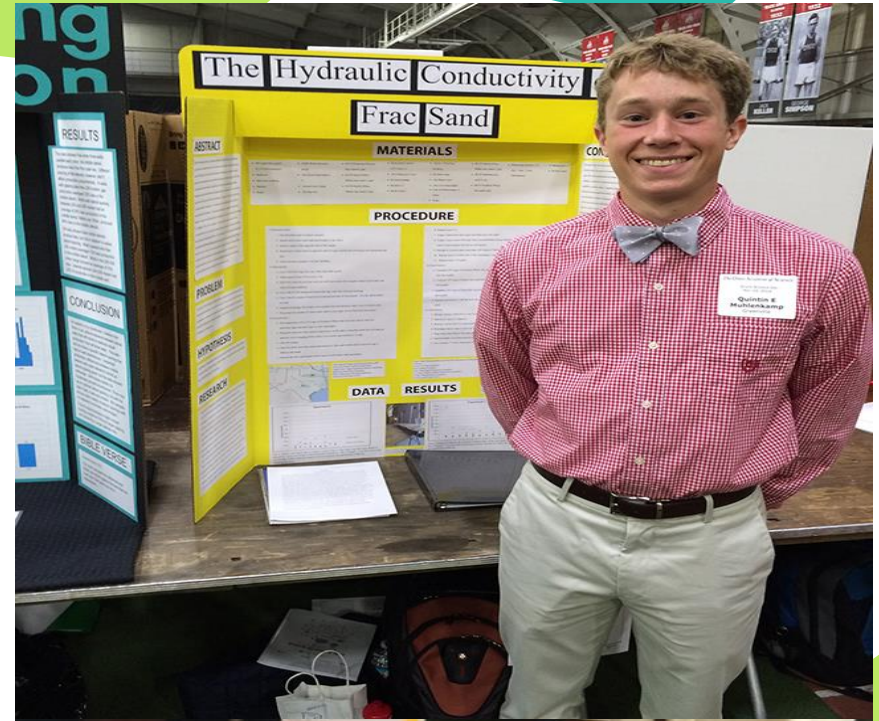
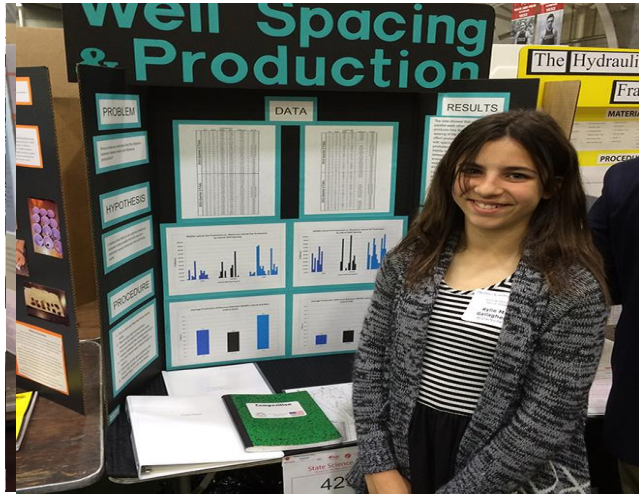
[\(2013: Communications/ Media Relations\)](#)
Judie Perkowski, Reporter
The Daily & Sunday Jeffersonian
and Ohio Gas & Oil Magazine

Scouting, Science Fair & Youth Programs

State Science Fair

(partnership with the Ohio Academy of Science/
The Ohio State University)

- Overall 250 Winners
- 49 Ohio Counties
- 1150 Ohio Schools



Actual Science Fair Project: How Gullible Are We? Would You Sign a Petition to Ban the Chemical “Dihydrogen Monoxide”

1. Can cause excessive sweating and vomiting
2. Is a major component in acid rain
3. Can cause severe burns in its gaseous state
4. Accidental inhalation can kill you
5. It contributes to erosion
6. It decreases effectiveness of automobile brakes
7. It has been found in tumors of terminal cancer patients

Science Fair Project Results:

Would you sign a petition to ban the use of this “chemical?”

- ✓ 143 people said yes.
- ✓ 6 were undecided.
- ✓ Only one knew that the chemical was . . .

WATER!!!



Penn & Teller: “Dihydrogen Monoxide”

Penn And Teller Get Hippies To Sign Water Banning Petition

0:00 3:23



Community Events/ Trade Shows/ Public Presentations

Trade Shows & Special Community Events





OHIO OIL & GAS ENERGY EDUCATION PROGRAM
OOGEEP
 org

ENERGY PASSPORT

COMPLETE "DIG IT" TO WIN A FOSSIL!

1
DIG IT!

COMPLETE AT LEAST 2 OF THE FOLLOWING STATIONS TO SPIN THE PRIZE WHEEL!

2 MATCH IT!	3 BUILD IT!	4 FIND IT!
-----------------------	-----------------------	----------------------

TURN IN YOUR CARD TO SPIN THE PRIZE WHEEL AND TAKE HOME A REFINED PETROLEUM PRODUCT!



Public Presentations



“Rock’n in Ohio”



**Bring your family and friends!
Promote to your co-workers and
employees!
Washington County Fair
Saturday, August 31, 2019**



Firefighter/ Emergency Response and Industry Safety Training

Firefighter/ Emergency Response Training

- 1,500 Firefighters
- 325 Fire Departments
- 51 Ohio Counties
- 7 Other States


OHIO OIL & GAS ENERGY EDUCATION PROGRAM

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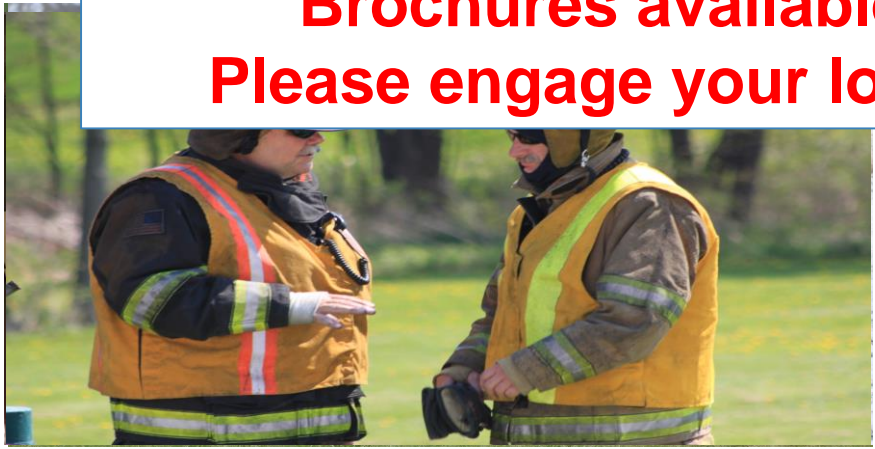
**RESPONDING
TO OILFIELD
EMERGENCIES
TRAINING**

959 DOVER ROAD
WOOSTER, OHIO 44691

FUNDED & SPONSORED BY:
OHIO'S NATURAL GAS AND OIL PRODUCERS



Brochures available at SOOGA Table
Please engage your local fire departments!



Specialized Industry Safety Training



**SAVE THE DATE:
May 16 – 17, 2019
OSHA 10 Certification
(replacing IADC Rig Pass Safeland USA)
Information will be available soon. Will
be asking SOOGA to help distribute to
their membership**

CELEBRATING 20 YEARS!
OHIO OIL & GAS ENERGY EDUCATION PROGRAM
OOGEEP
org

**AUTUMN 2018
INDUSTRY**

**B
C CENTER**

Ohio Oil and Gas Energy Education Program
P.O. Box 387, Granville, Ohio 43023 | (740) 587-0410 | www.oogeep.org

Scholarships

Scholarships



- 65 Scholarships to be Awarded in May 2019
- Overall 400 Scholarships
- 46 Different Colleges, Universities or Technical Institutes
- 54 Different Ohio Counties
- Students Representing 9 States
- 41 Different Majors

Workforce/ Career Development

Career Opportunities

OHIO OIL & GAS ENERGY EDUCATION PROGRAM



NATURAL GAS & CRUDE OIL CAREERS

CAREER OPPORTUNITIES

Administrative/ Executive Assistant
Attorney
Automation Technician
Business Analyst
Business Development
Chemical Engineer/ Chemist
Chief Financial Officer
Civil Engineer
Community Relations
Completions Engineer
Completions Superintendent/ Supervisor
Construction Coordinator
Construction Technician
Controller
Data Analyst
Derrickhand
Development Advisor
Diesel Mechanic
Division Order Analyst
Drilling Engineer
Drilling Superintendent/ Supervisor
Drilling Technician
Electrical Engineer
Electronic Technician
Engineering Technician
Engineers
Environmental Engineer
Environmental, Health, & Safety Advisor
Environmental, Health, & Safety Field Coordinator
Equipment Operator
Facility Engineer
Facility Operator
Field Engineer (Cased-Hole or Wireline)
Financial Analyst
Floorhand
Geologist
Geophysicist
Geoscience Technician
Government Affairs
Human Resources Director
Instrumentation & Electrical (I&E) Technician

JIB Accountant
Land Lease and Rental Analyst
Land Lease Coordinator
Land Lease Records Coordinator
Land Mapping Technician
Landman (Land Lease Negotiator)
Landowner Relations
Lease Operator (Well Tender/ Pumper)
Maintenance/ Mechanical Technician
Mechanical Engineer
Mud Engineer
Mud Logger
MWD Engineer (Measurement While Drilling)
Natural Gas Balancing Analyst
Natural Gas Buyer
Natural Gas Risk Analyst
Natural Gas Sales Representative
Natural Gas Scheduler
Natural Gas Trader
Office Coordinator
Petroleum Engineer
Plant Coordinator
Process Technician
Procurement Manager
Production Assistant
Production Engineer
Production Technician
Public Affairs
Regulatory Analyst
Reservoir Engineer
Revenue Accountant
Roustabout
Surveyor
Technical Services Maintenance Coordinator
Technicians
Truck Driver (CDL)
Water System Engineer
Weather Forecaster
Welder
Welder Helper
Workover/ Service Rig Supervisor

For more information about each career, including their description, minimum education requirements, and lists of education and training opportunities, please visit www.oogeeep.org/industry-workforce/careers.

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Ohio Carpenters' Joint Apprenticeship and Training Program
Ohio Dominican University
Ohio Laborers Apprenticeship and Training Program
Ohio Northern University
Ohio State University, The
Ohio University
Ohio Wesleyan University
Operating Engineers Local 18 Apprenticeship and Training Program
Owens Community College
Penn State
Penta Career Center - High School Student and Adult Education Programs
Pickaway-Ross County Career and Technology Center - High School Student and Adult Education Programs
Pierpont Community and Technical College
Pioneer Career and Technology Center - High School Student and Adult Education Programs
Plumbers and Pipefitters Local Union 396 Apprenticeship Program
Plumbers and Pipefitters Local Union 94 Apprenticeship Program
Polaris Career Center - High School Student and Adult Education Programs
R. G. Drage Career and Technical Center - High School Student and Adult Education Programs
Rhodes State College
Shawnee State University
Sinclair Community College
Southern State Community College
Stark State College
Swiss Hills Center
Tiffin University
Toiles Career and Technical Center - High School Student and Adult Education Programs
Tri-County Adult Career Center
Trumbull Career and Technical Center - High School Student and Adult Education Programs
University of Akron, The
University of Cincinnati
University of Dayton
University of Findlay
University of Mount Union
University of Northwestern Ohio
University of Rio Grande
University of Toledo, The
Walsh University
Washington County Career Center - High School Student and Adult Education Programs
Washington State Community College
Wayne County Schools Career Center - High School Student and Adult Education Programs
West Virginia Northern Community College
West Virginia University
Wilmington College
Wittenberg University
Wright State University
Youngstown State University

For more information about the career opportunities associated with these available educational / training programs, along with job descriptions and minimum education requirements, please visit www.oogeeep.org/industry-workforce/careers.

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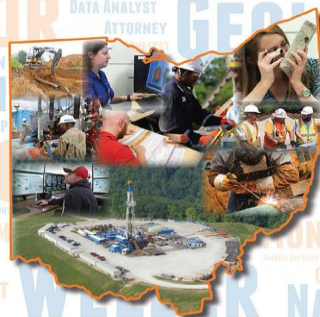
Job Descriptions/ Career Overview

OHIO OIL & GAS ENERGY EDUCATION PROGRAM



NATURAL GAS & CRUDE OIL CAREERS

CAREER OVERVIEWS



Please visit our website at www.oogeep.org/industry-workforce/careers/ for more information about each individual career.

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PHOTO	JOB TITLE AND DESCRIPTION	MINIMUM EDUCATION REQUIREMENTS
	WEATHER FORECASTER Weather Forecasters communicate weather predictions to natural gas traders, schedulers, buyers and sales representatives. This is an important role since natural gas consumption and prices are directly affected by weather conditions.	Bachelor Degree in Meteorology.
	WELDER Welders provide a wide variety of services related to the natural gas and crude oil industry including manufacturing, maintenance, and fabrication of drilling and well servicing equipment. They also help to build storage tanks, separators, and other production related vessels. Some welders work inside while other welders work outdoors on pipeline projects, wellhead and production pad construction.	Associate Degree and specific Industry related Certifications. Apprenticeship opportunities may also be available.
	WELDER HELPER Welder Helpers assist Welders in a variety of ways including preparation of welding tools, equipment and supplies for each job. Other responsibilities may include lifting, moving, and clamping work pieces in preparation for cutting and/or welding.	Specific Industry related Certificate. Apprenticeship opportunities may also be available.
	WORKOVER/ SERVICE RIG SUPERVISOR Workover/ Service Rig Supervisors oversee and manage all daily rig activities and operations. They are responsible for ordering supplies and equipment for the rig, and tracking hourly operational time for billing services provided. Workover/ Service Rig Supervisors maintain all maintenance records, crew training documentation, and any billable supplies used in the course of a job. They may also coordinate schedules with Completions Superintendents and other well servicing crews like wireline services, cementing services, fracturing and acidization services.	High School Diploma, Certificate or Associate Degree. Progressive on the job rig training. Multiple years of oil and gas field experience will be required.

Oil and Gas Careers in Ohio

Ohio Oil & Gas Energy Education Program



CAREERS IN OHIO SERIES: MAINTENANCE OR MECHANICAL TECHNICIAN

Job Description:

Installs, maintains and troubleshoots mechanical equipment.

Typical Education:

Associate's Degree

Education & Training Facilities:

C-TEC Career and Technical Education Centers
150 Price Road, Newark, Ohio 43055
740-364-2333 | 800-945-2832
www.c-tec.edu

Cuyahoga Valley Career Center
8001 Brecksville Road, Brecksville, Ohio 44141
440-526-5200
www.cvccworks.edu

Kent State University at Trumbull
4314 Mahoning Avenue NW, Warren, Ohio 44483
330-847-0571
www.kent.edu

Mid-East Career and Technology Centers
400 Richards Road, Zanesville, Ohio 43701
740-455-3111 | 800-832-7545
www.mid-east.k12.oh.us

Stark State College
6200 Frank Avenue NW, North Canton, Ohio 44720
330-494-6170 | 800-79-STARPK
www.stark.edu

The Career Center Washington County Career Center
21740 State Route 676, Marietta, Ohio 45750
740-373-2766
www.thecareercenter.net

Wayne County Schools Career Center
518 West Prospect Street, Smithville, Ohio 44677
330-669-7070
www.wayne-jvs.k12.oh.us

Zane State College
1555 Newark Road, Zanesville, Ohio 43701
740-454-2501 | 800-686-8324
www.zanestate.edu



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**Check ALL the New Career Videos
(Covers more than 75+ Oil and Gas Career Paths)**

Does Education Always Work . . . NO!



**YOU CAN'T FIX
STUPID**

Sometimes there are just no words to say



**Back to Reality:
Economic and
Lifestyle Benefits
that Impact EVERY
U.S. Citizen**

The Average American Uses 3 Gallons of These Refined Petroleum and Manufactured Products Every Day!



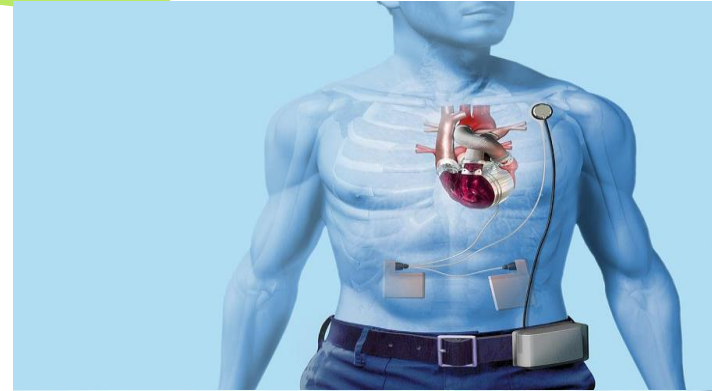
**7 out of Every Ten Homes Uses Natural Gas As
Its Primary Heating and Cooking Source!**



Refined Petroleum/ Manufactured Products Keep Communities Safe!



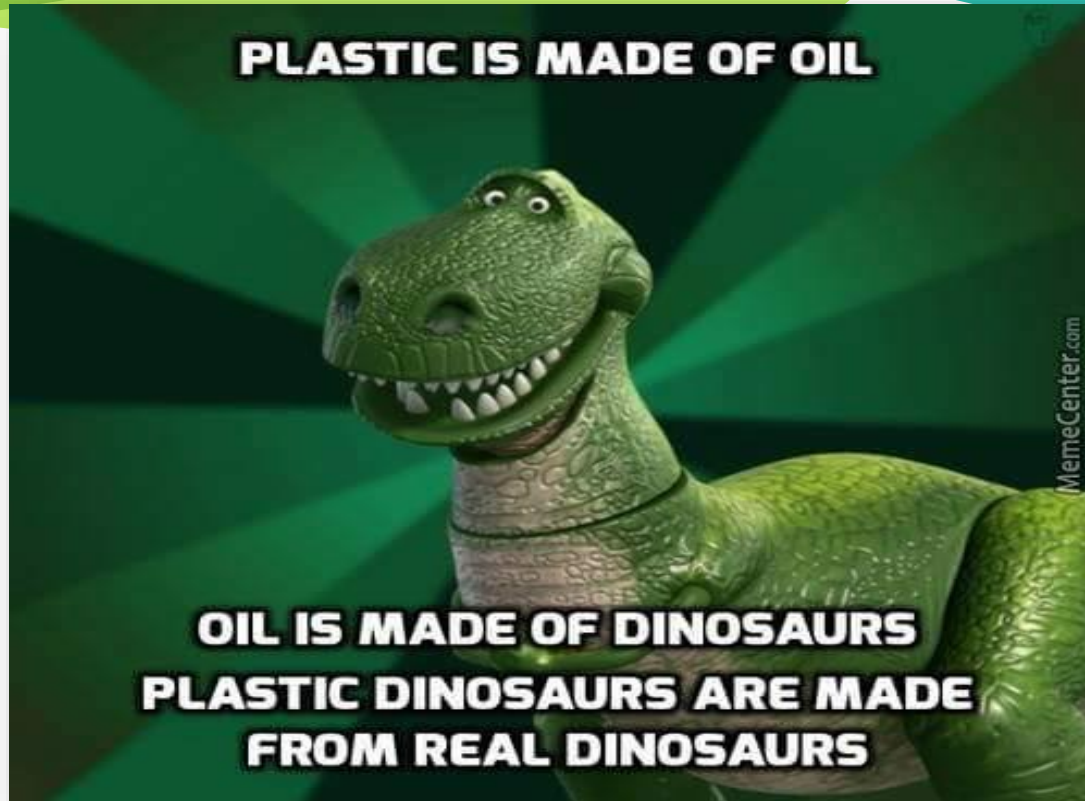
Refined Petroleum/ Manufactured Products Make People Feel Better!



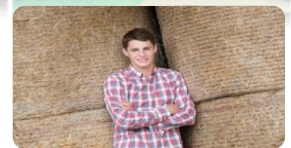
Worldwide Energy/ Manufacturing Footprint



Final Thought to Ponder



Thanks for ALL your support!



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