

# LESSON 41

## Minerals in Texas

- *History of Oil Discoveries in Texas*
- *Chronological Listing of Major Oil Discoveries*
- *Petroleum Production and Income in Texas*
- *Texas Oil Production History*
- *Oil and Gas Production by County*
- *Receipts by Texas from Tidelands*
- *Nonpetroleum Minerals*

### INSTRUCTIONAL SUGGESTIONS

1. Students will use “History of Oil Discoveries in Texas” to complete the **Oil in Texas Word Search**. They should fill in the blanks first and then use these terms to complete the word search.
2. Students will use the data from “Chronological Listing of Major Oil Discoveries” to complete the sequencing activity.
  - a. Write the year in which each of these events occurred in the appropriate column.
  - b. Write “1” in the appropriate column and continue until all the events are sequenced.

<b>Year</b>		<b>Order</b>
_____	Pegasus	_____
_____	Electra	_____
_____	Spindletop	_____
_____	Prentice	_____
_____	East Texas	_____
_____	Corsicana	_____
_____	Ranger	_____
_____	Salt Flat	_____
_____	Dora Roberts	_____
_____	Burkburnet	_____

*The great gusher at Spindletop, near Beaumont, erupted on Jan. 10, 1901. It was the first salt dome oil discovery, and thousands of barrels of oil flowed before the well could be capped. Texas Almanac file photo.*

3. Using “Petroleum Production and Income in Texas” and a blank grid (Appendix), students will construct a bar graph comparing the value of crude oil to natural gas for any five years since 1985.

#### **SOCIAL STUDIES TEKS**

4 - 6, 11, 13, 21, 22, 23

7 - 7, 8, 13, 21, 22, 23

8 - 12, 14, 29, 30

#### **STAAR**

4, 7 - Writing - 1, 2, 3

4, 7, 8 - Reading - 1, 2, 3

8 - Social Studies - 4

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4. Students will use information from “Receipts by Texas from Tidelands” and outside research to write a persuasive speech. Their perspective should reflect the viewpoint of a United States Senator or Representative from Texas as they attempt to persuade their colleagues to approve the continuation of revenue from off-shore oil and gas leases.
5. Students will use a **Texas County Map** (Appendix) and identify the top ten counties in total oil production since its discovery by drawing an oil derrick in the correct counties. Use the “Top Oil Producing Counties since Discovery” chart for reference.
6. Students will answer these questions using “Oil and Gas Production by County.”
  - a. Which county produced the most crude oil?
  - b. Which county had the greatest amount of gas well gas?
  - c. Which counties produced no crude oil?
  - d. What percentage of counties produced no crude oil?
  - e. How many counties did not have gas well gas?
  - f. What percentage of counties had no gas well gas?
7. Students will be divided into groups of two to four. Using information in the “Nonpetroleum Minerals” section, each group will create a company producing a nonpetroleum mineral.
  - a. Students will select a company name, logo, and headquarters location. They will design a business card and brochure to be distributed to potential customers.
  - b. Students will create advertisements for their company that will be presented to potential customers. The advertisement can be for the newspaper, television, or radio. Formats for these advertisements may be written, visual, a skit, jingle, etc.
  - c. Students will make a business presentation to potential customers (class); it should include their business card, brochure, and advertisement.
8. Students will read information in “Nonpetroleum Minerals” section and complete the **Texas Minerals Chart**.
9. Students will create symbols for the minerals on the chart, draw them in the correct locations on a **Texas County Map** (Appendix), and include a key to interpret the data.



# Oil in Texas Word Search

F E S B Z M P J R L I C I J W R T T A S  
P N T S A T K A N A C I S R O C Z V S D  
W T I X S L L B U R X A Q R R Y A P E D  
W G U S G L C T G E Q Q V L Z L P L L M  
H O L V A J A O T D C Q E I M J U E E G  
U N E S D B F R N O M P J M G N I D C D  
F U O P A F N F E E Z M E E G F I F T R  
M C M E J B G A R N S Y P S T Y Y B R P  
T A L R T G I S I X I N A T E U M Q A A  
Y B P P C A X N R M A M E O Y E E C F N  
T W H X O A R V E C R N P N B A L O I H  
N T K U K T Q O O P R E Y E Q N R R E A  
U E Q Q O Y E G R U A N P C M A O C L N  
O Y A X F C D L B P E S S O S I S H D D  
C N K X T O R K D C Q R S U P R E H Y L  
Y U T W C W R B I N A T Y N X B N U L E  
R F G H Z U A R V O I R N T L M E B G Z  
R Q E N B B P G S F S P D Y N A S V U V  
U S H M F X S C O I T O S X Q C R X G S  
C Y R A N G E R F I E L D G J E A S V U  
S M R O Y A L T I E S S O Z M R X B B D  
Z F S M G G Z M N W C R Y M O P F W D W

## Oil in Texas Word Search (continued)

1. Oil and natural gas are the most valuable \_\_\_\_\_ produced in Texas.
2. Oil and gas have been produced from rocks of all geologic eras except the \_\_\_\_\_.
3. The \_\_\_\_\_ \_\_\_\_\_ is a large oil-producing area of West Texas.
4. The University of Texas and Texas A&M University have benefitted from the \_\_\_\_\_ of the 1923 discovery, Santa Rita No. 1, in Reagan County, on University of Texas land.
5. Mesozoic rocks are the primary hydrocarbon reservoirs of the East Texas Basin and the area south and east of the \_\_\_\_\_ Fault Zone.
6. Survivors of the DeSoto expedition found crude oil near \_\_\_\_\_ \_\_\_\_\_.
7. \_\_\_\_\_ is the site of Texas' first producing oil well.
8. Texas' first commercial oil field was in \_\_\_\_\_ County.
9. A major oil discovery was made at \_\_\_\_\_ in 1894.
10. \_\_\_\_\_ is the site of the Beaumont gusher in 1901.
11. Oil was discovered in the \_\_\_\_\_ \_\_\_\_\_ in Wichita County in 1911.
12. Eastland County oil can be found in the \_\_\_\_\_ \_\_\_\_\_.
13. The \_\_\_\_\_ \_\_\_\_\_ in Wichita County was discovered in 1919.
14. In 1920, oil was discovered in \_\_\_\_\_ \_\_\_\_\_ in the Mexia Field.
15. Oil was discovered in the Texas \_\_\_\_\_ in 1921.
16. Overproduction in the East Texas Field brought a fall in the \_\_\_\_\_ of oil.
17. Private attempts were made to \_\_\_\_\_ production in the East Texas Field.
18. The West Texas Field was discovered in 1948 in \_\_\_\_\_ \_\_\_\_\_.

## Texas Minerals Chart

Mineral	Location in Texas	Uses
<b>ASPHALT</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____	1. _____
<b>CLAYS</b> • Ceramic	1. _____ 2. _____	1. _____ 2. _____ 3. _____
• Nonceramic	1. _____ 2. _____ 3. _____	1. _____ 2. _____ 3. _____
<b>COALS</b>		
• Bituminous	1. _____ 2. _____ 3. _____	1. _____
• Cannel	1. _____	1. _____
<b>GRAPHITE</b>	1. _____ 2. _____	1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____



## Texas Minerals Chart (continued)

Mineral	Location in Texas	Uses
<b>GYPSUM</b>	1. _____ 2. _____ 3. _____ 4. _____	1. _____ 2. _____ 3. _____ 4. _____ 5. _____
<b>HELIUM</b>	1. _____	1. _____ 2. _____ 3. _____ 4. _____ 5. _____
<b>IRON</b>	1. _____ 2. _____ 3. _____	1. _____ 2. _____ 3. _____
<b>LIGNITE</b>	1. _____ 2. _____ 3. _____	1. _____
<b>MARBLE</b>	1. _____ 2. _____	1. _____ 2. _____ 3. _____



## Texas Minerals Chart (continued)

Mineral	Location in Texas	Uses
<b>PEAT</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____	1. _____
<b>PUMICITE</b>	1. _____ 2. _____ 3. _____ 4. _____	1. _____ 2. _____ 3. _____
<b>SANDSTONE</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____	1. _____ 2. _____ 3. _____
<b>SULFUR</b>	1. _____ 2. _____ 3. _____ 4. _____	1. _____

