



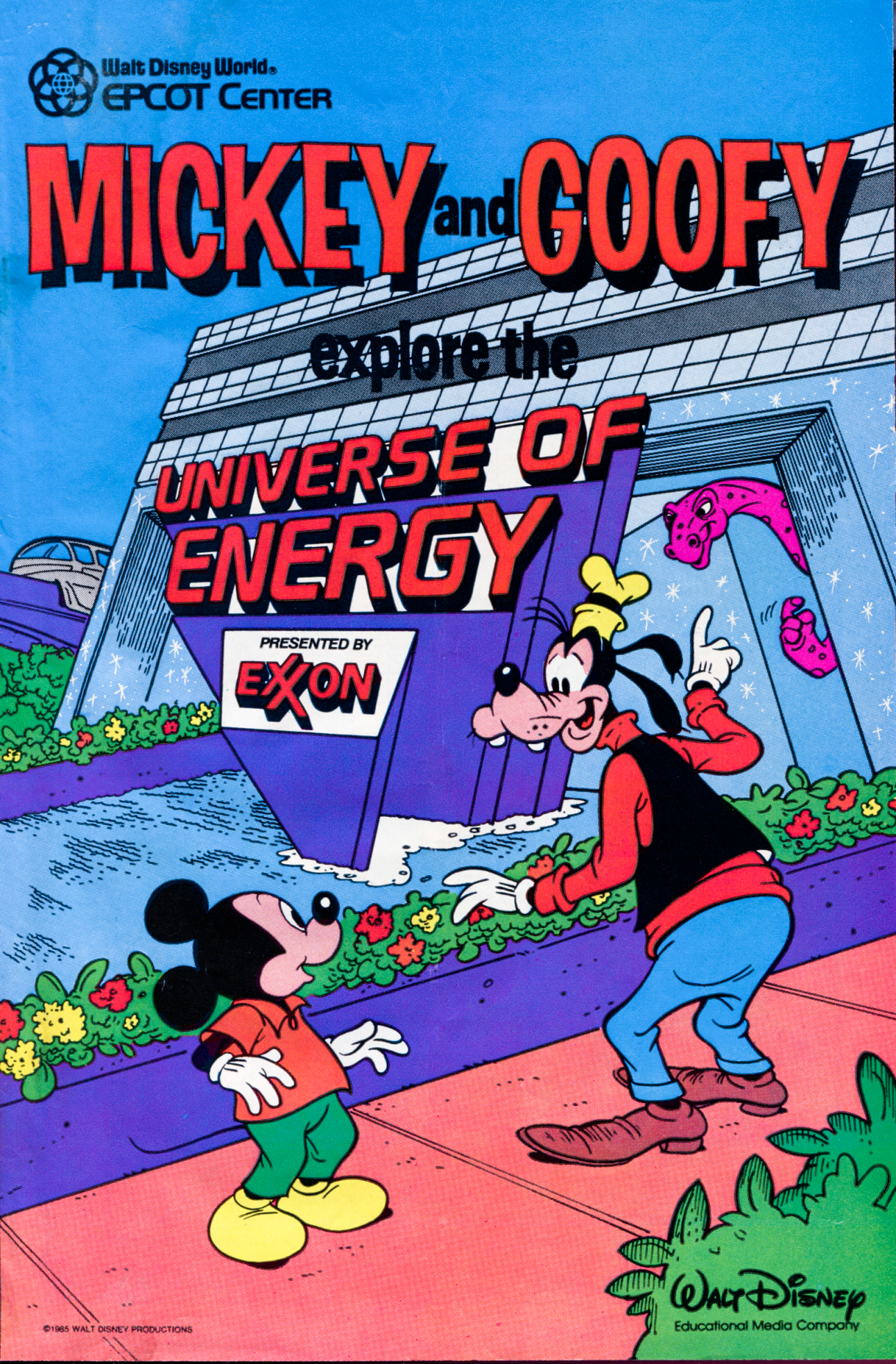
Walt Disney World
EPCOT CENTER

MICKEY and GOOFY

explore the

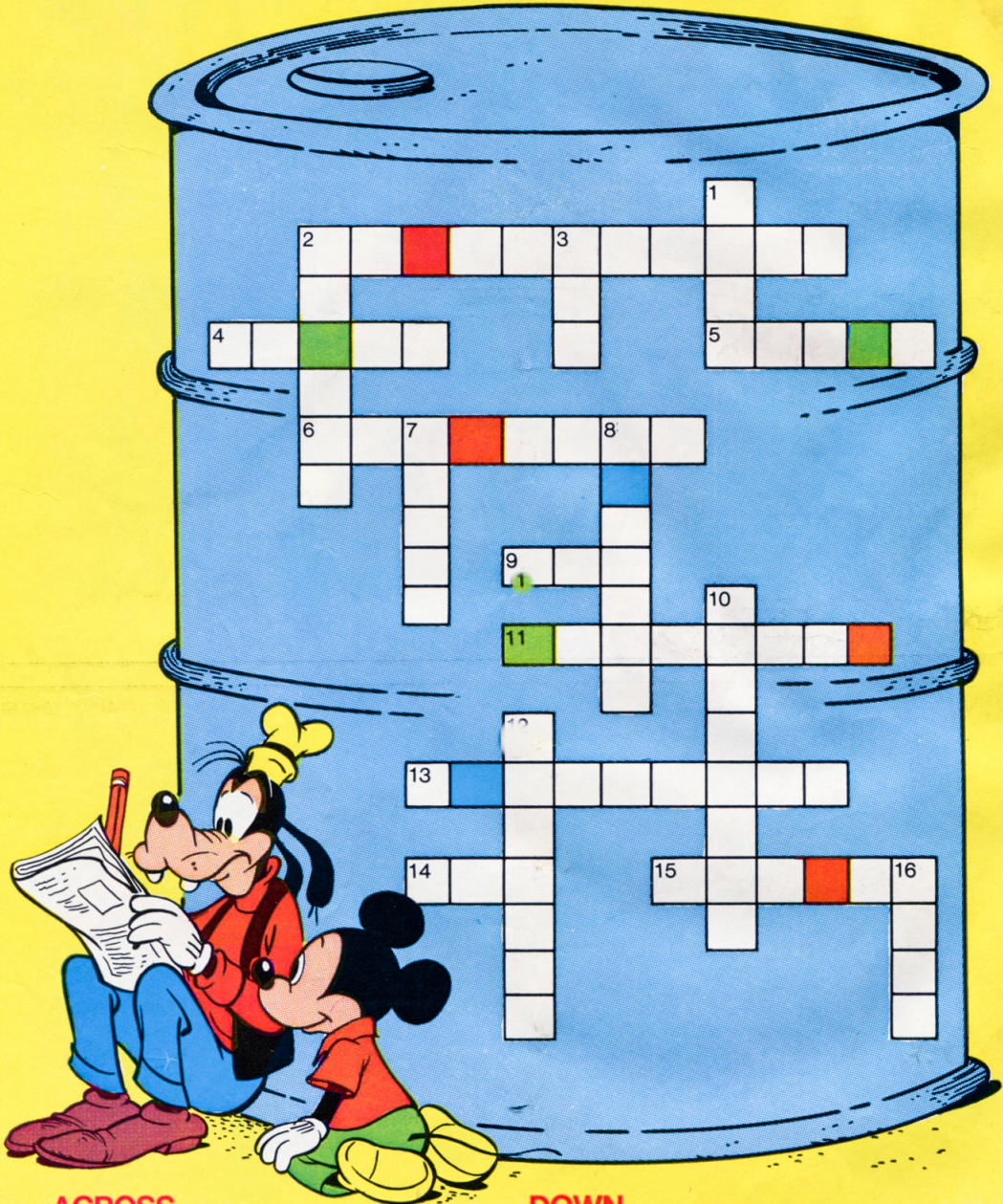
UNIVERSE OF ENERGY

PRESENTED BY
EXON



Have a BARREL OF FUN... GO ON A WORD QUEST!

Complete the puzzle by writing in the correct words that go across and down. When you're finished, unscramble the letters in the colored squares. You'll soon discover what America's single most important fuel for the rest of the 20th Century will be!



ACROSS

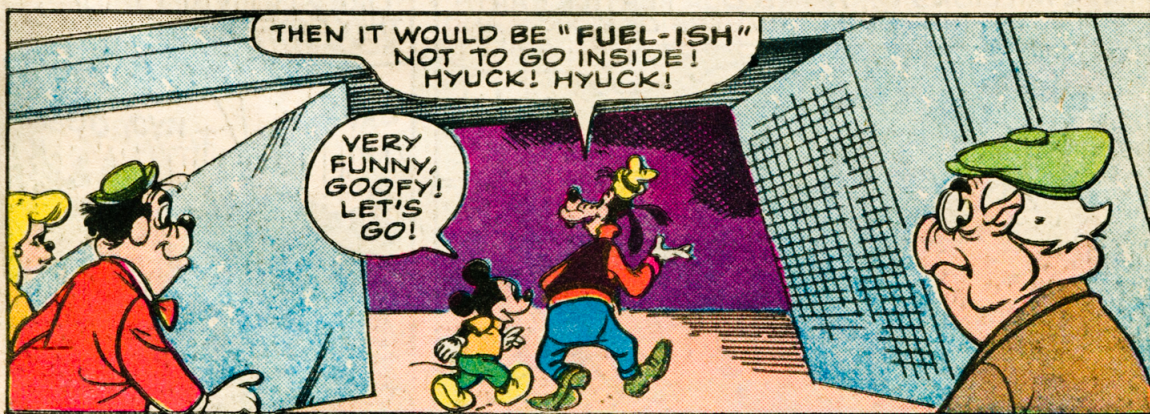
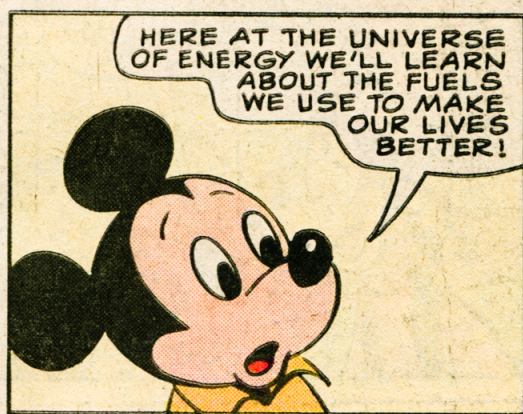
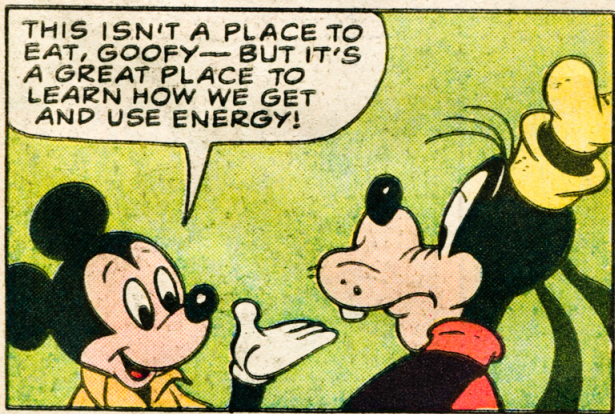
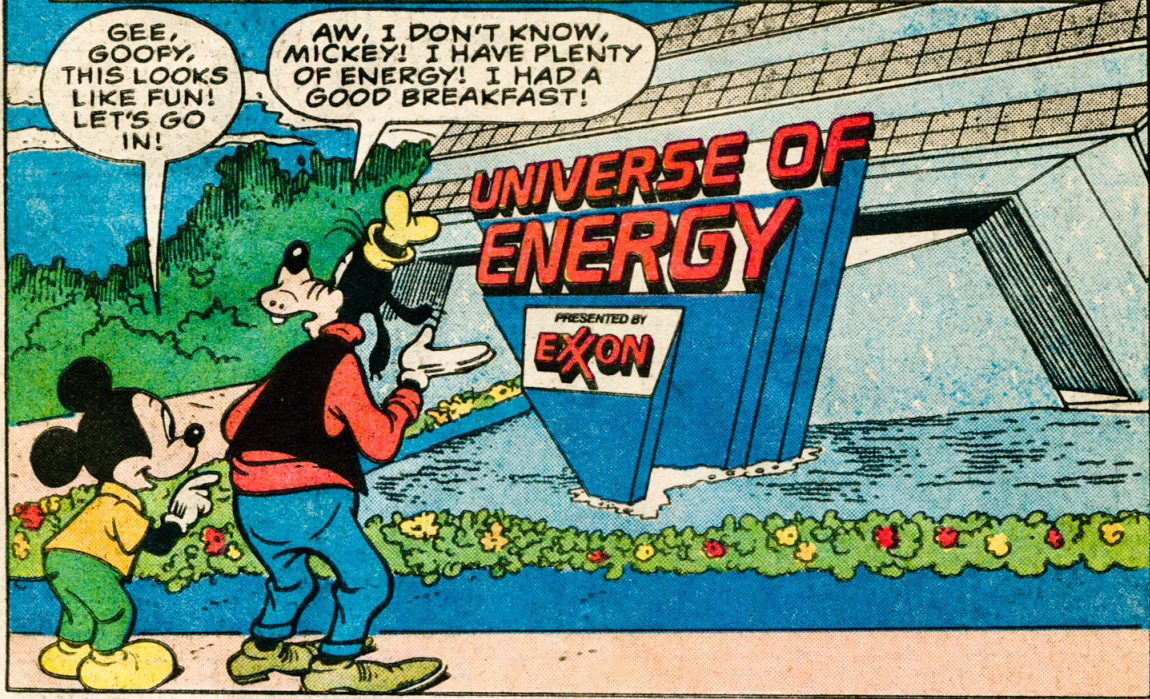
2. Power for the TV
4. Power from water
5. To bore a hole
6. Fuel for a car
9. A car's lubricant
11. A support for offshore oil production
13. Vessel that searches for oil
14. Fuel for cooking
15. One site of abundant U.S. oil

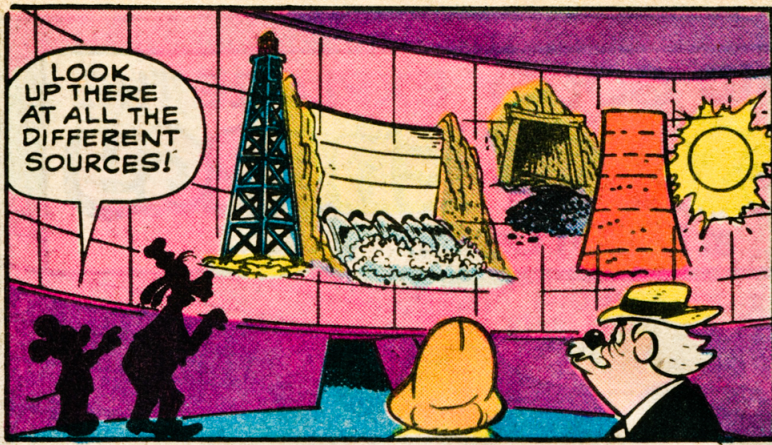
DOWN

1. Power from "out of thin air"
2. Accomplishes work
3. Oil drilling apparatus
7. Power from our nearest star
8. Power from uranium atoms
10. Not on land
12. Process of splitting atoms creating energy
16. Abundant U.S. energy source

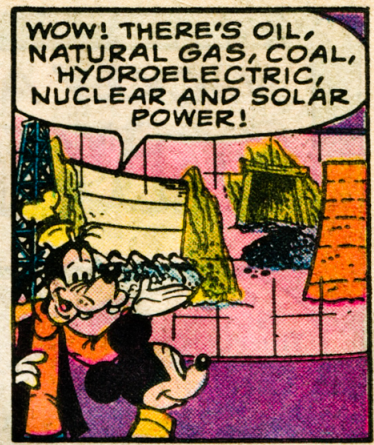
Answers on inside back cover

MICKEY AND GOOFY EXPLORE THE **UNIVERSE OF ENERGY** at EPCOT Center

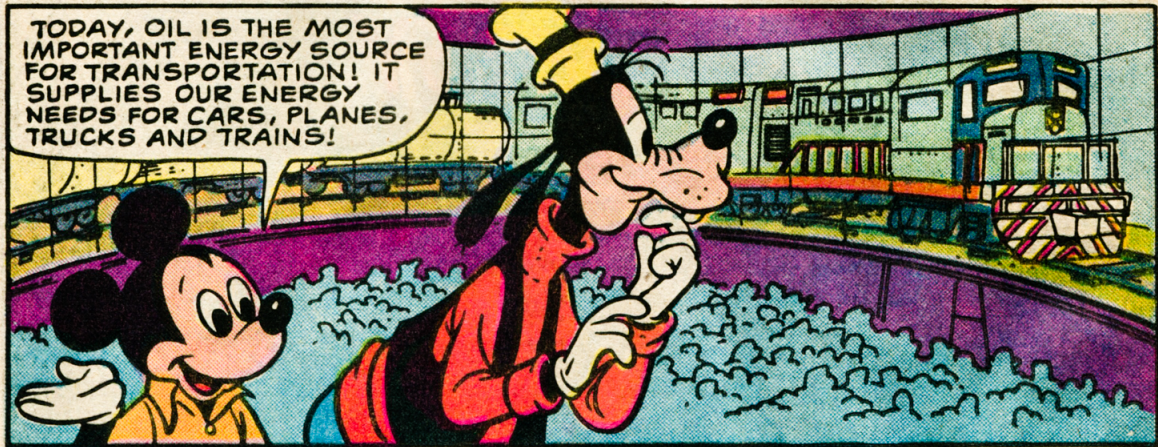




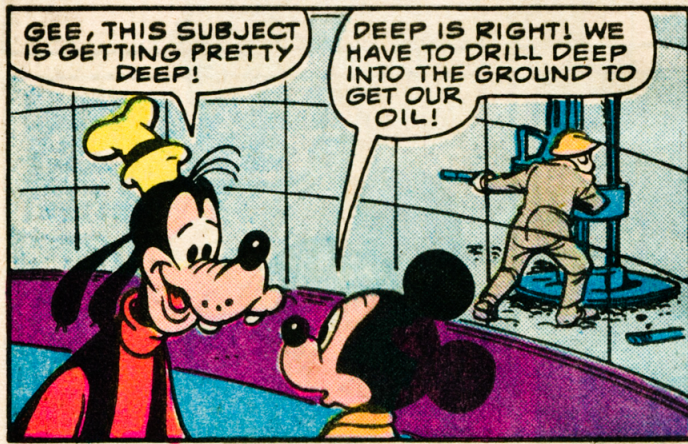
LOOK UP THERE AT ALL THE DIFFERENT SOURCES!



WOW! THERE'S OIL, NATURAL GAS, COAL, HYDROELECTRIC, NUCLEAR AND SOLAR POWER!

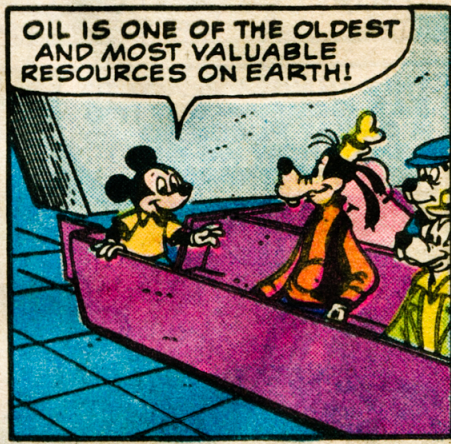


TODAY, OIL IS THE MOST IMPORTANT ENERGY SOURCE FOR TRANSPORTATION! IT SUPPLIES OUR ENERGY NEEDS FOR CARS, PLANES, TRUCKS AND TRAINS!

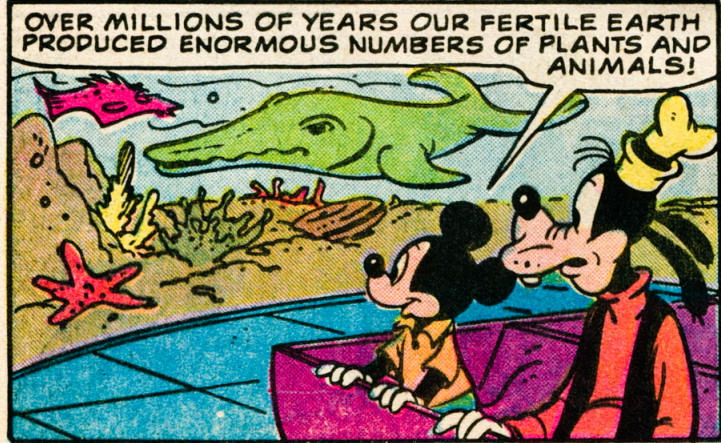


GEE, THIS SUBJECT IS GETTING PRETTY DEEP!

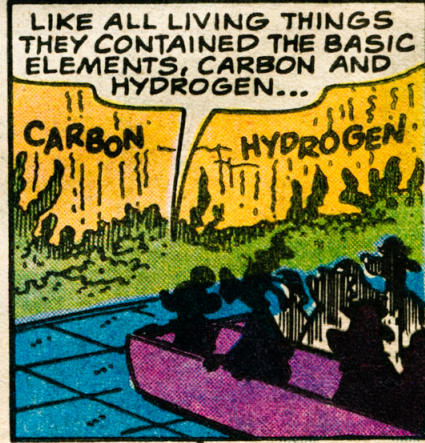
DEEP IS RIGHT! WE HAVE TO DRILL DEEP INTO THE GROUND TO GET OUR OIL!



OIL IS ONE OF THE OLDEST AND MOST VALUABLE RESOURCES ON EARTH!



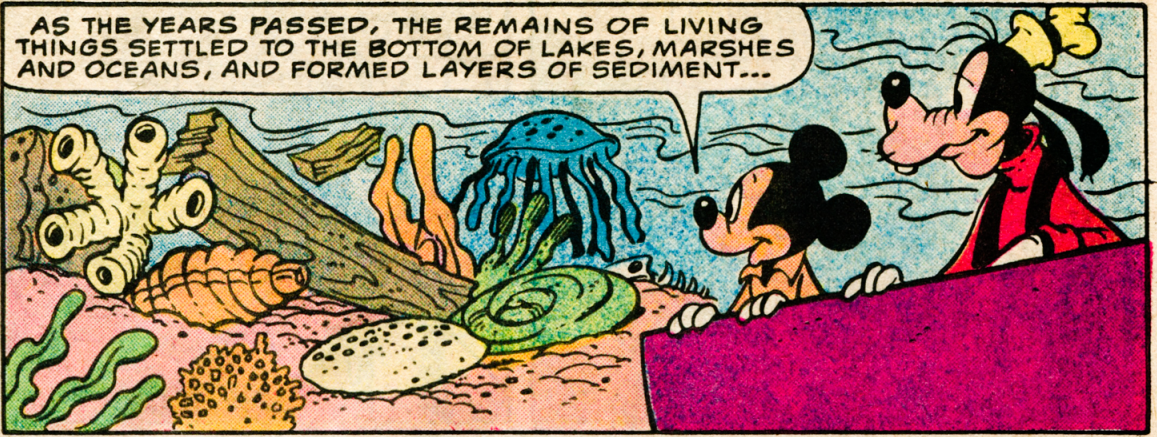
OVER MILLIONS OF YEARS OUR FERTILE EARTH PRODUCED ENORMOUS NUMBERS OF PLANTS AND ANIMALS!



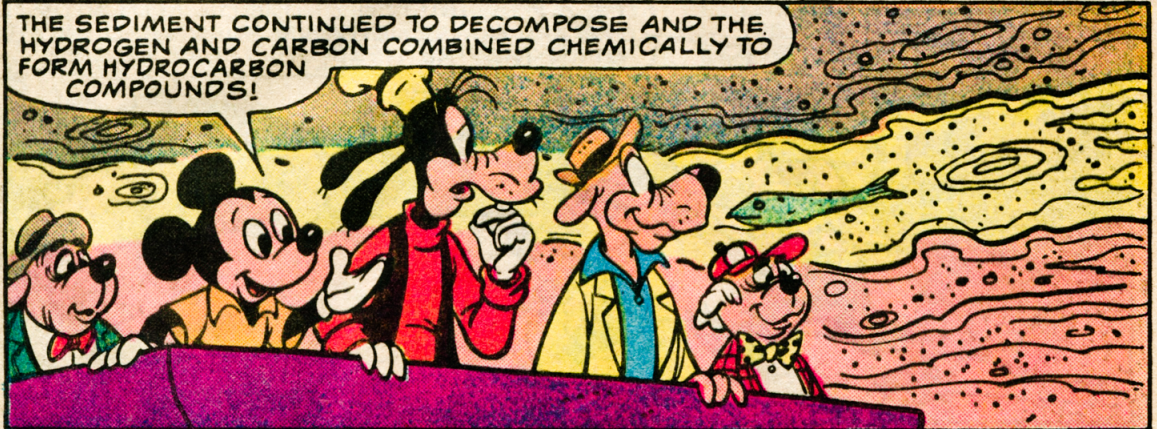
LIKE ALL LIVING THINGS THEY CONTAINED THE BASIC ELEMENTS, CARBON AND HYDROGEN...

CARBON HYDROGEN

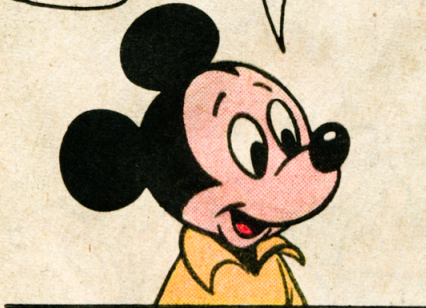
AS THE YEARS PASSED, THE REMAINS OF LIVING THINGS SETTLED TO THE BOTTOM OF LAKES, MARSHES AND OCEANS, AND FORMED LAYERS OF SEDIMENT...



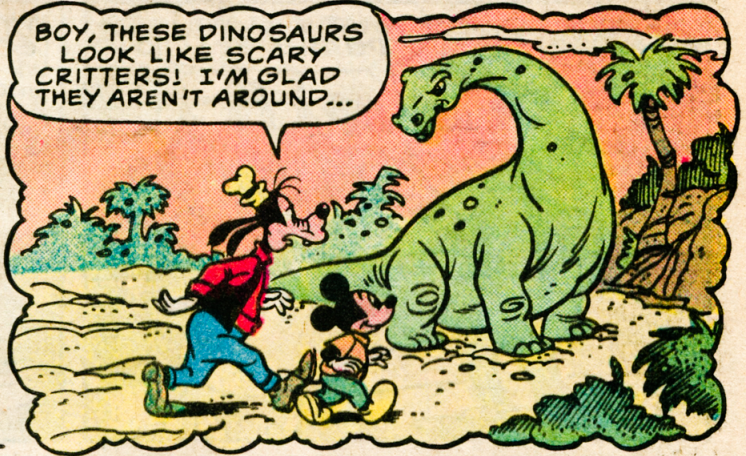
THE SEDIMENT CONTINUED TO DECOMPOSE AND THE HYDROGEN AND CARBON COMBINED CHEMICALLY TO FORM HYDROCARBON COMPOUNDS!



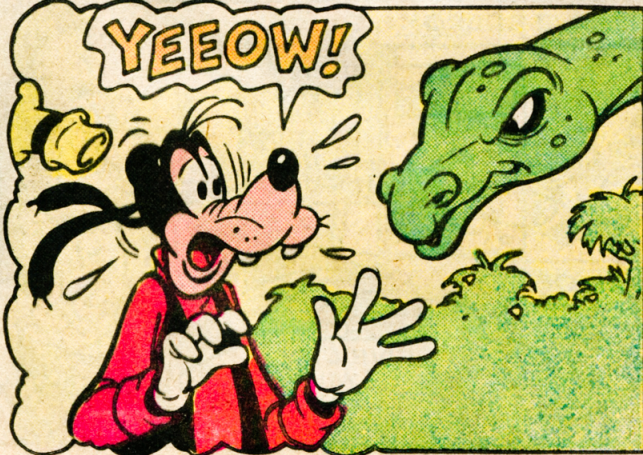
THESE CHEMICAL CHANGES IN THE EARTH EVENTUALLY FORMED THE OIL AND NATURAL GAS WE USE TODAY!



BOY, THESE DINOSAURS LOOK LIKE SCARY CRITTERS! I'M GLAD THEY AREN'T AROUND...

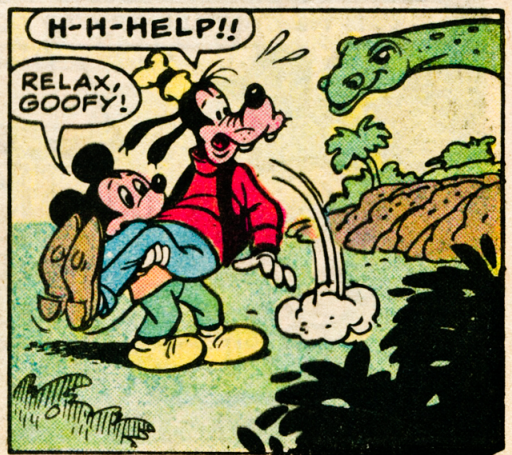


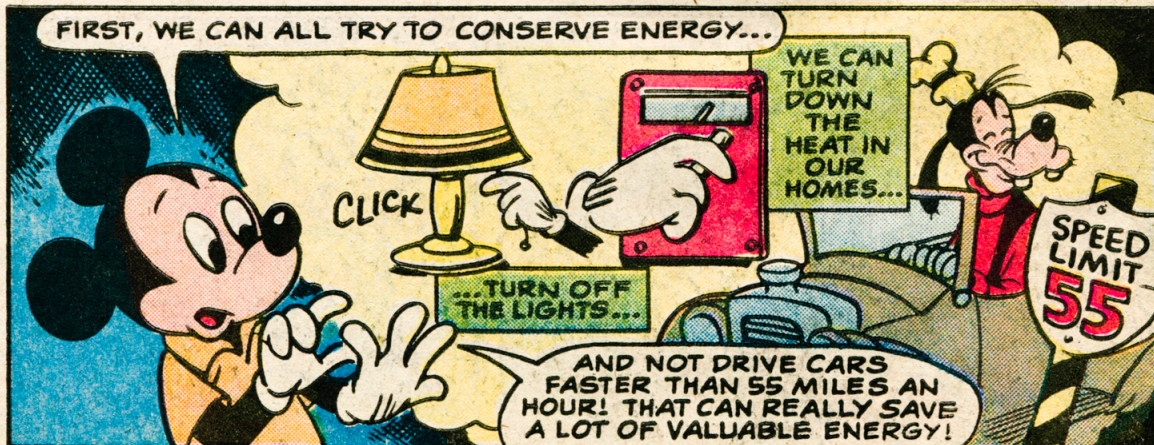
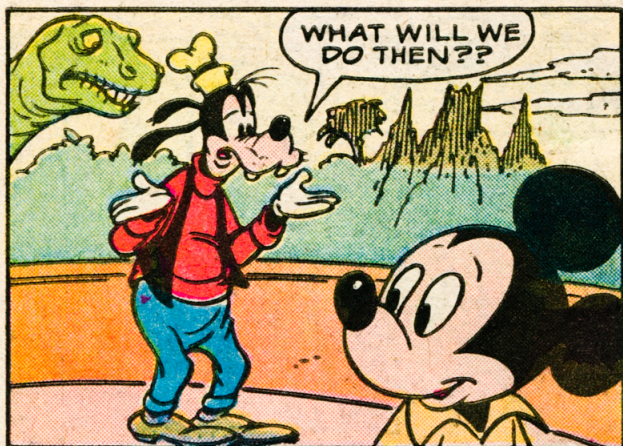
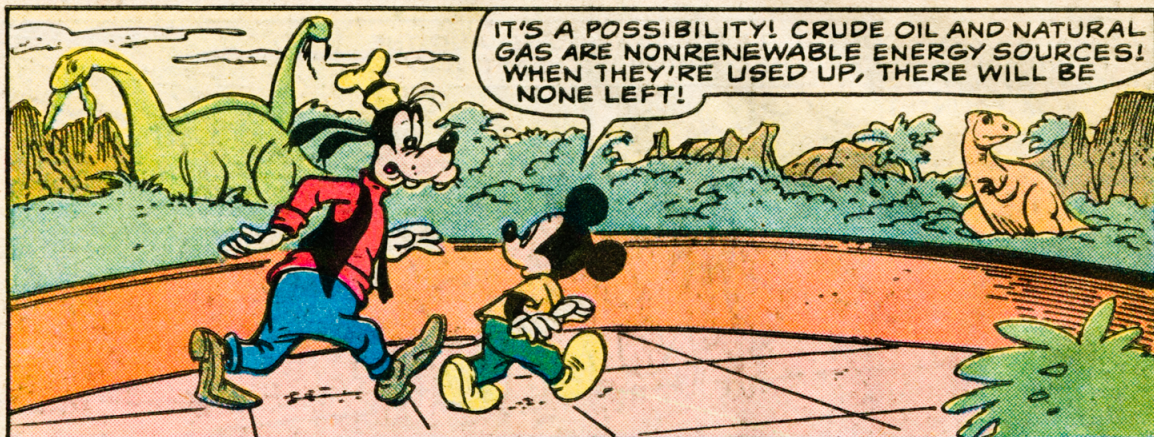
YEEOW!



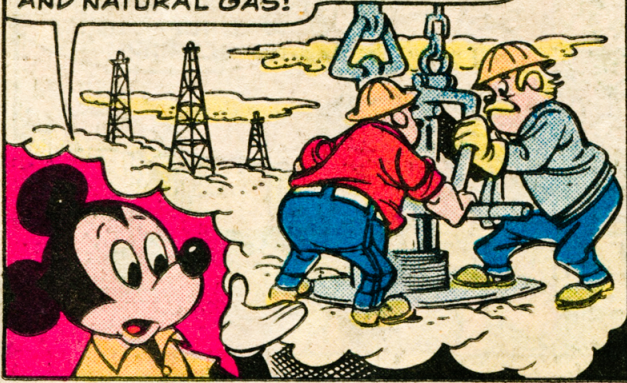
H-H-HELP!!

RELAX, GOOFY!



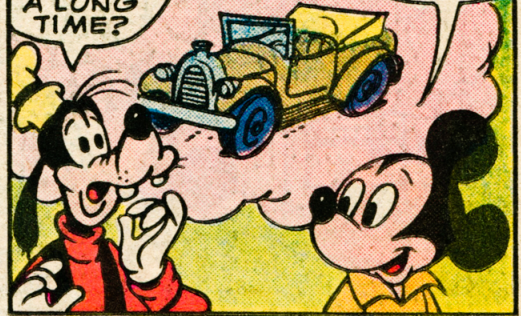


ALSO, WE NEED TO EXPLORE FOR NEW SUPPLIES OF CRUDE OIL AND NATURAL GAS!

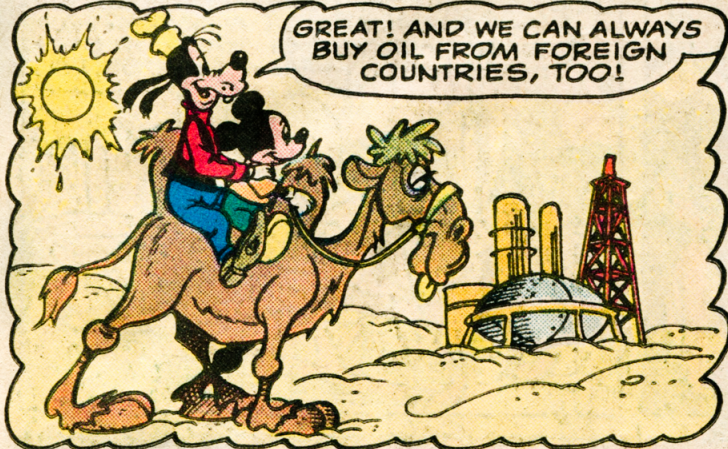


YOU MEAN, OL' BESSIE'S GONNA LAST ME A LONG TIME?

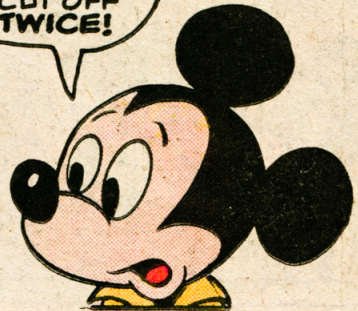
SURE, GOOFY! OIL CAN SUPPLY YOUR CAR'S ENERGY NEEDS FOR MANY YEARS TO COME!



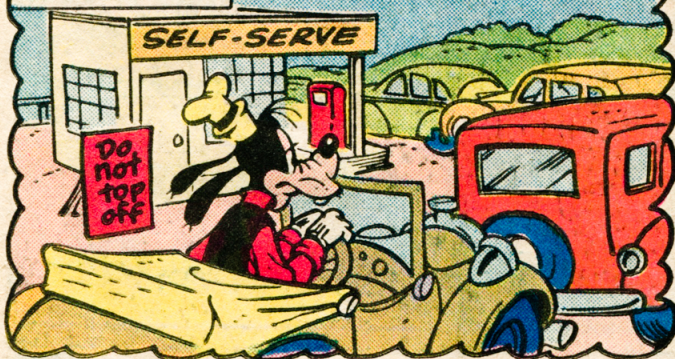
GREAT! AND WE CAN ALWAYS BUY OIL FROM FOREIGN COUNTRIES, TOO!



SOMETIMES WE CAN'T DEPEND ON OTHER COUNTRIES! SINCE 1973, OUR FOREIGN OIL SUPPLY HAS BEEN CUT OFF TWICE!

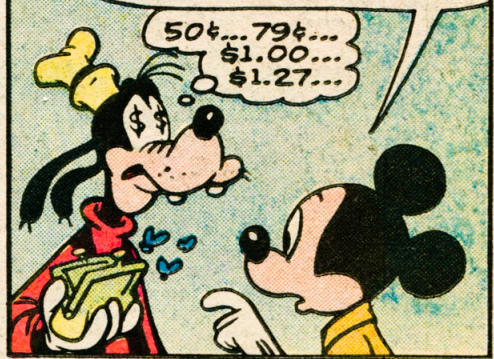


"OH, YEAH— I REMEMBER HOW OL' BESSIE HAD TO WAIT IN LOOOONNNGG LINES FOR GASOLINE!"



AND BECAUSE GASOLINE WAS SCARCE, IT BECAME VERY EXPENSIVE, TOO!

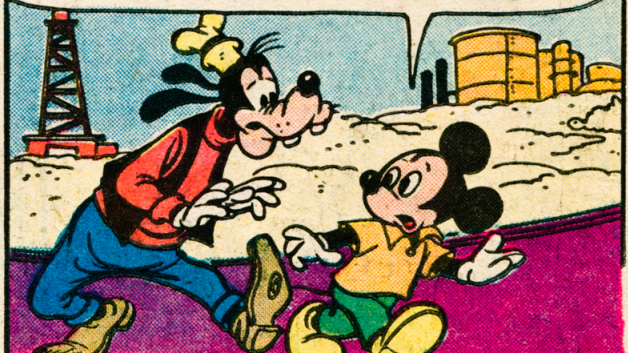
50¢... 79¢...
\$1.00...
\$1.27...



GAWRSH, MICK... THAT "SCARCE" ME A LOT!

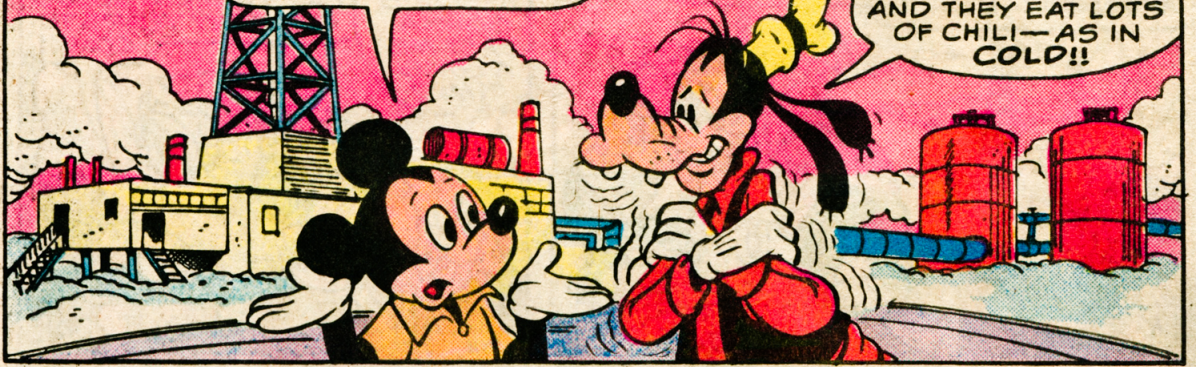


YES, GOOFY— BUT IT WILL HELP IF WE CAN FIND NEW SOURCES OF OIL IN OUR OWN COUNTRY!



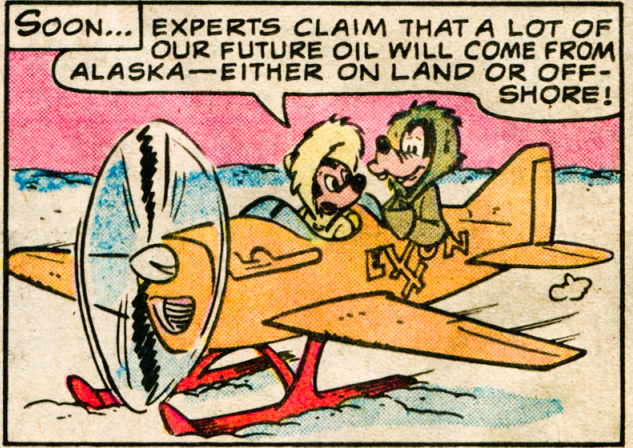
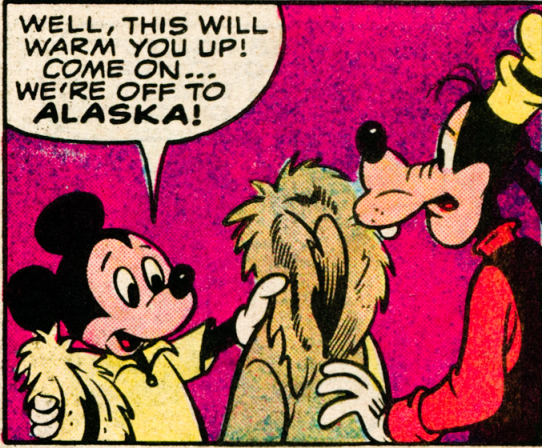
OIL COMPANIES MUST LOOK IN MORE DIFFICULT PLACES — LIKE THE ARCTIC AND UNDER THE SEA!

THE ARCTIC?! *BRRR!* I BET THEY HAVE "OIL-SICKLES" THERE! HYUCK! HYUCK! AND THEY EAT LOTS OF CHILI — AS IN COLD!!



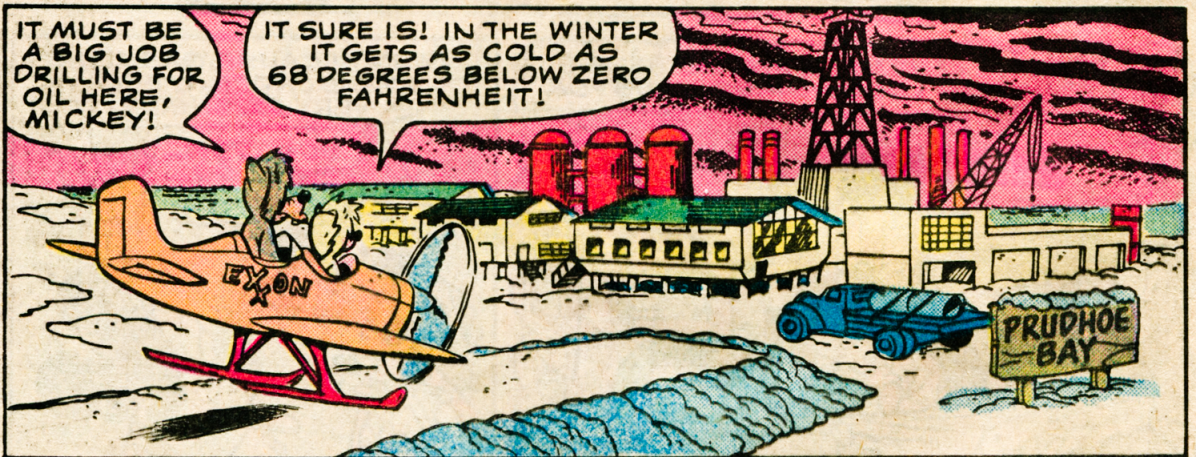
WELL, THIS WILL WARM YOU UP! COME ON... WE'RE OFF TO ALASKA!

SOON... EXPERTS CLAIM THAT A LOT OF OUR FUTURE OIL WILL COME FROM ALASKA — EITHER ON LAND OR OFF-SHORE!



IT MUST BE A BIG JOB DRILLING FOR OIL HERE, MICKEY!

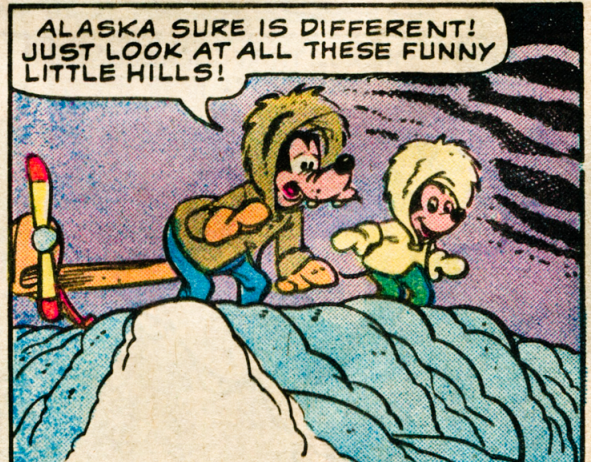
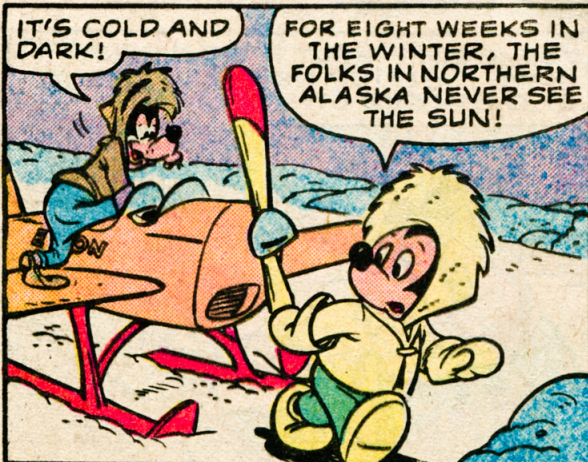
IT SURE IS! IN THE WINTER IT GETS AS COLD AS 68 DEGREES BELOW ZERO FAHRENHEIT!



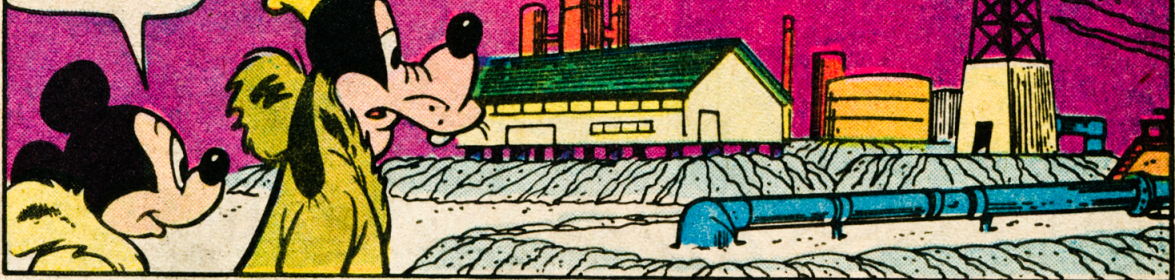
IT'S COLD AND DARK!

FOR EIGHT WEEKS IN THE WINTER, THE FOLKS IN NORTHERN ALASKA NEVER SEE THE SUN!

ALASKA SURE IS DIFFERENT! JUST LOOK AT ALL THESE FUNNY LITTLE HILLS!



THEY'RE NOT HILLS, GOOFOY— THEY'RE INSULATING PADS MADE WITH SAND OR GRAVEL! THEY PROTECT THE LAND AND KEEP THE PERMAFROST FROM MELTING DUE TO HEAT AND PRESSURE CAUSED BY LARGE MOVING VEHICLES AND EQUIPMENT!



PERMAFROST—? WHAT'S THAT?

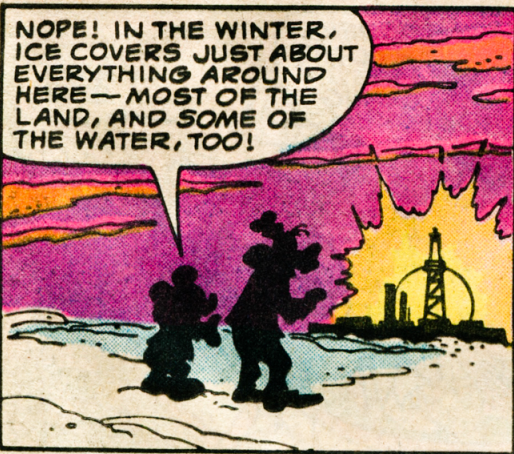
IT'S A PERMANENTLY FROZEN LAYER OF ICE AND SOIL THAT CAN BE THOUSANDS OF FEET DEEP!



WOW! I BET NO ONE HAS TO WORRY ABOUT ICE CREAM MELTING HERE! HYUCK!

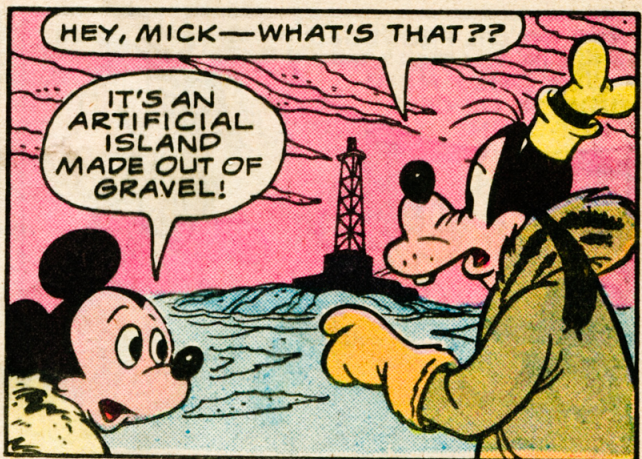


NOPE! IN THE WINTER, ICE COVERS JUST ABOUT EVERYTHING AROUND HERE— MOST OF THE LAND, AND SOME OF THE WATER, TOO!



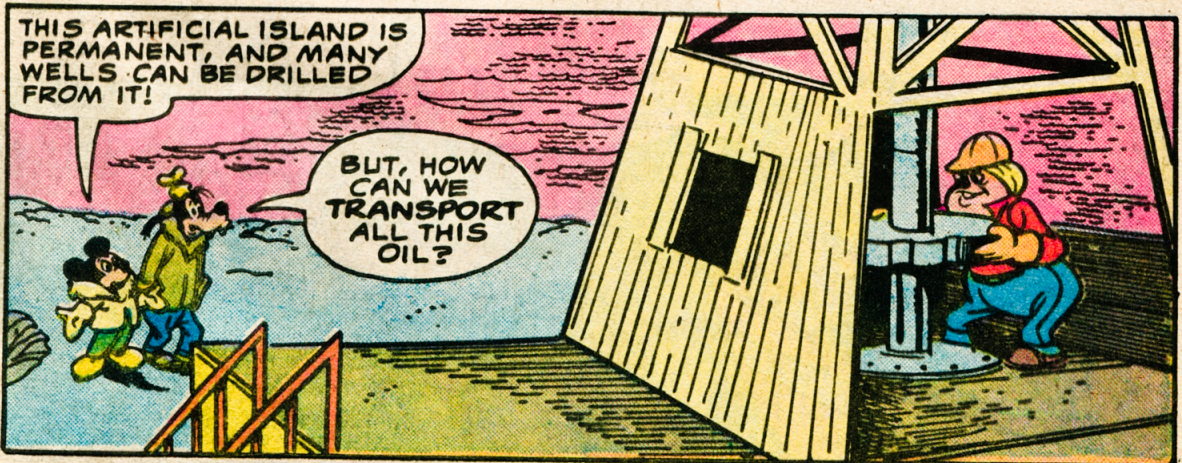
HEY, MICK—WHAT'S THAT??

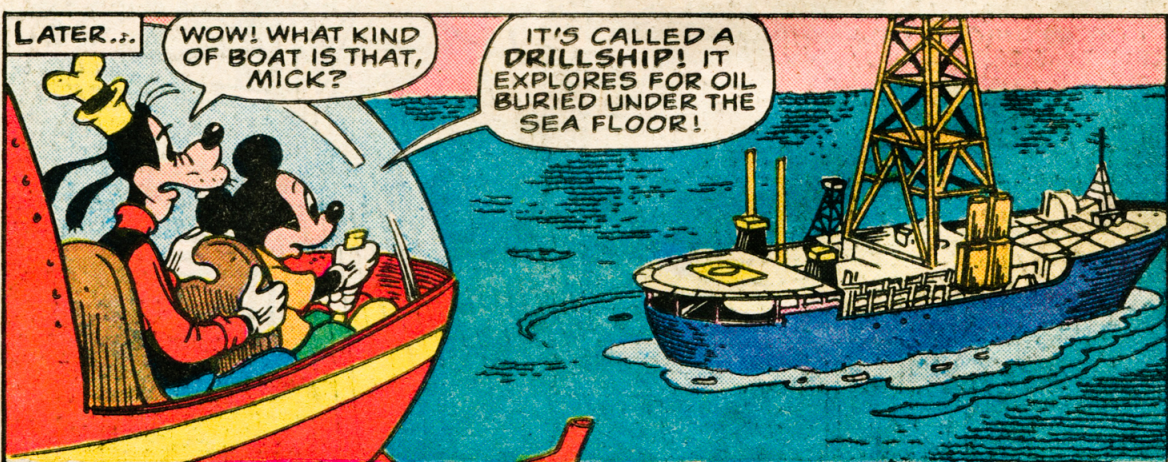
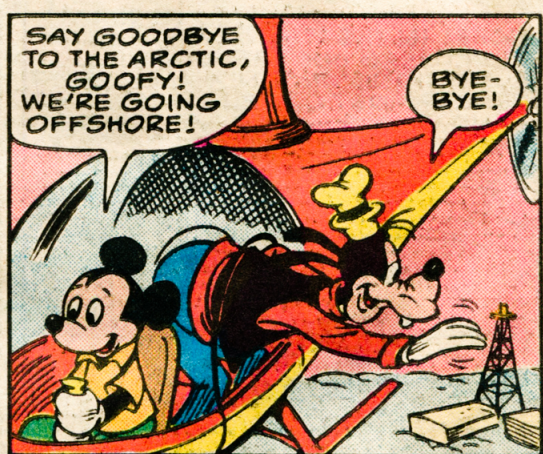
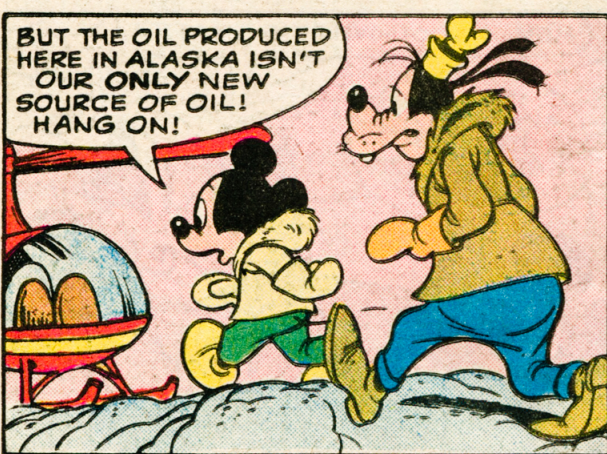
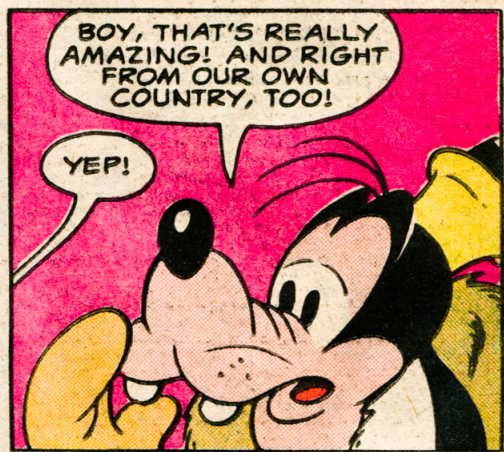
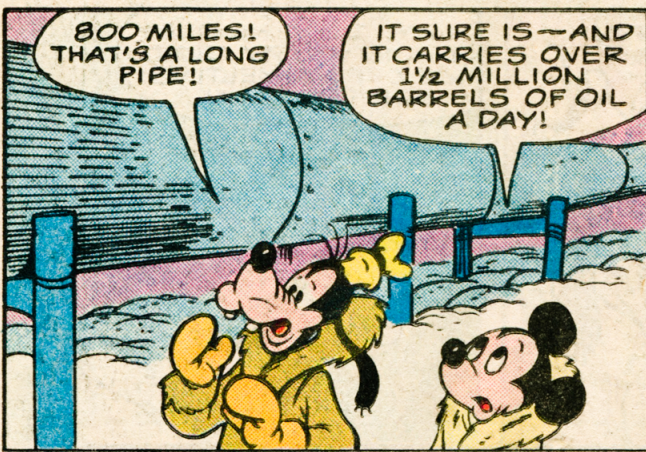
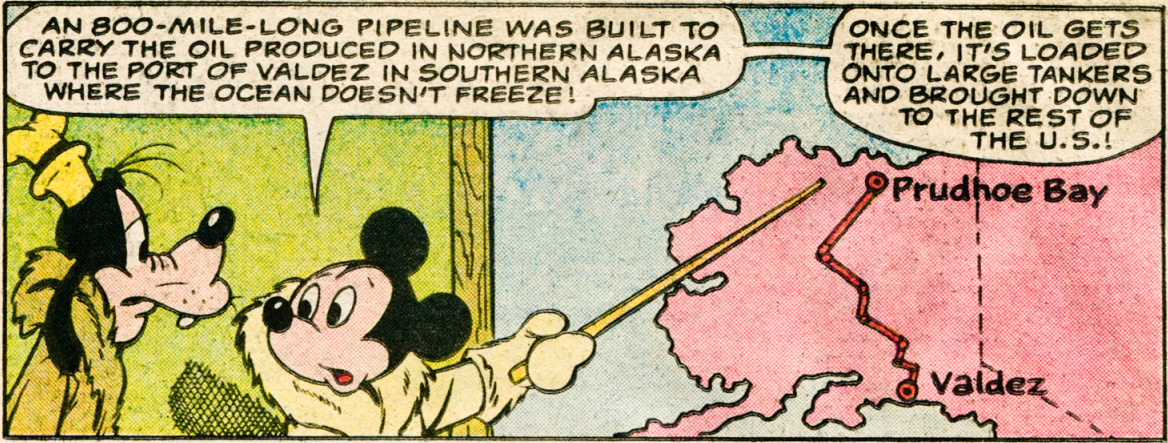
IT'S AN ARTIFICIAL ISLAND MADE OUT OF GRAVEL!

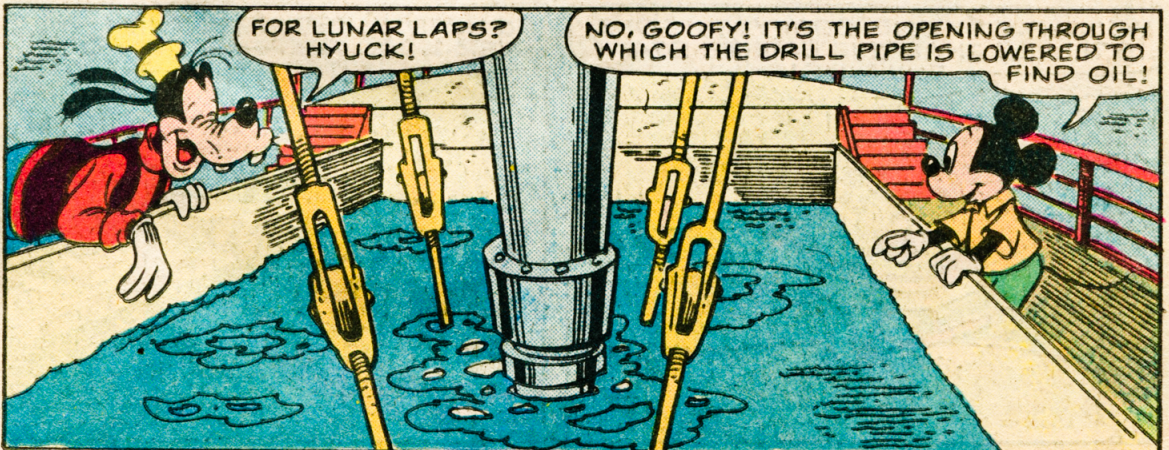
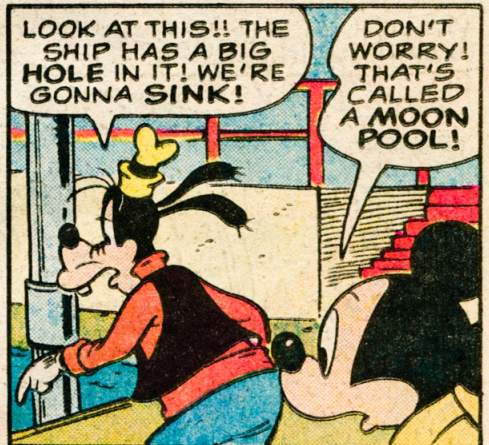
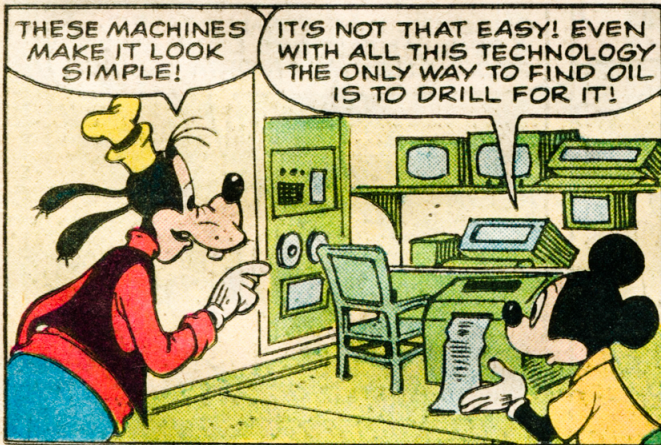
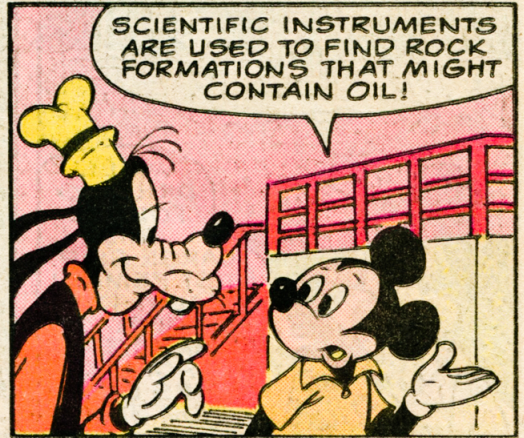
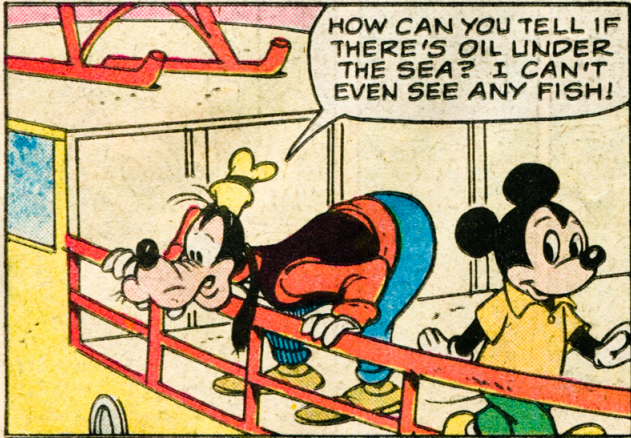
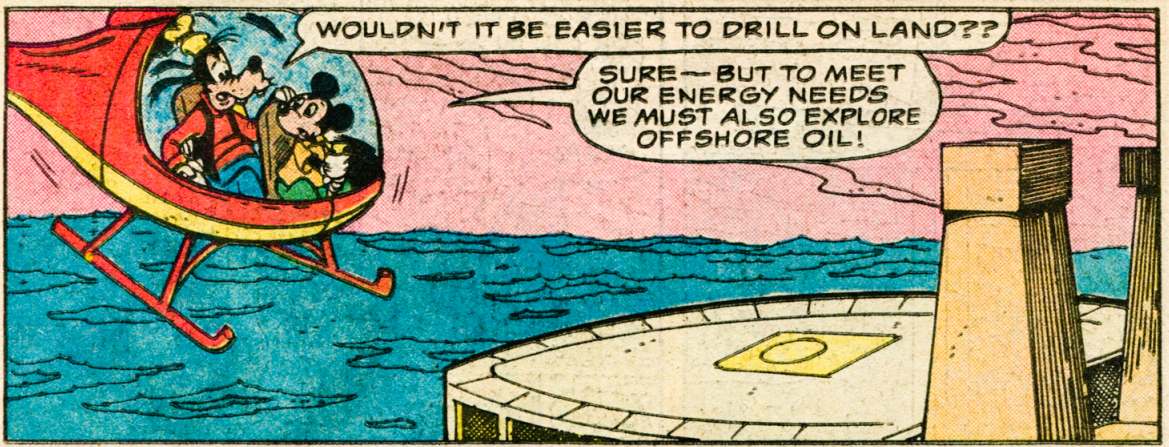


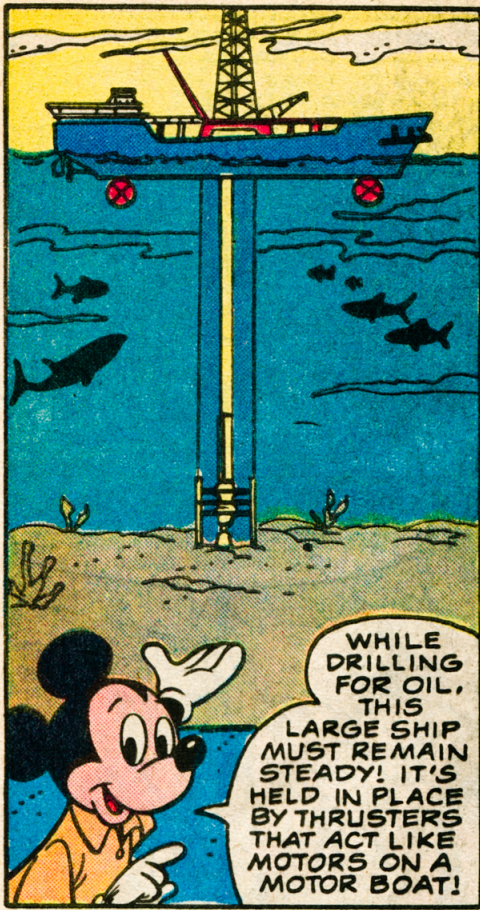
THIS ARTIFICIAL ISLAND IS PERMANENT, AND MANY WELLS CAN BE DRILLED FROM IT!

BUT, HOW CAN WE TRANSPORT ALL THIS OIL?

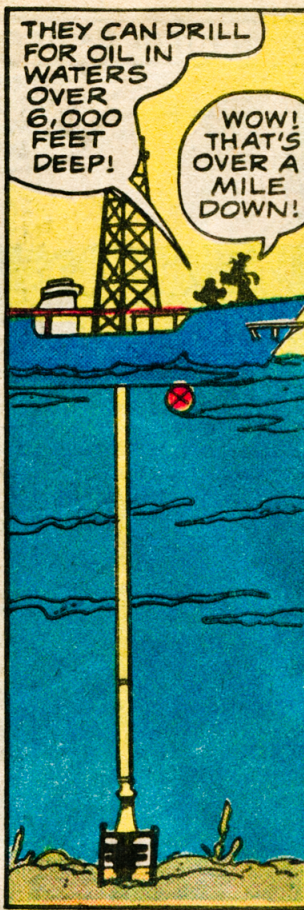






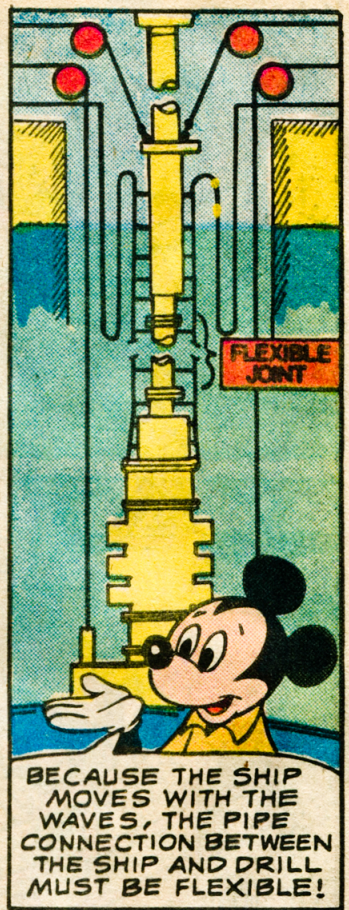


WHILE DRILLING FOR OIL, THIS LARGE SHIP MUST REMAIN STEADY! IT'S HELD IN PLACE BY THRUSTERS THAT ACT LIKE MOTORS ON A MOTOR BOAT!

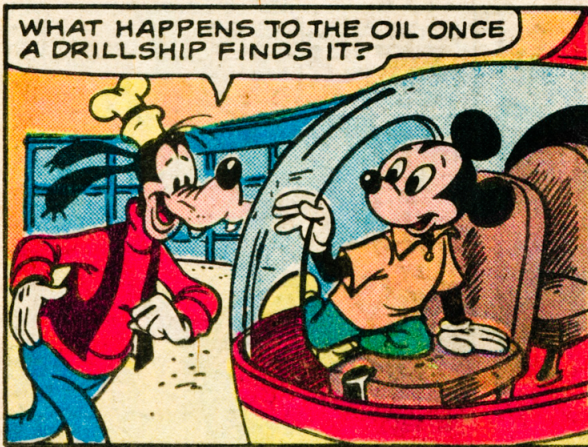


THEY CAN DRILL FOR OIL IN WATERS OVER 6,000 FEET DEEP!

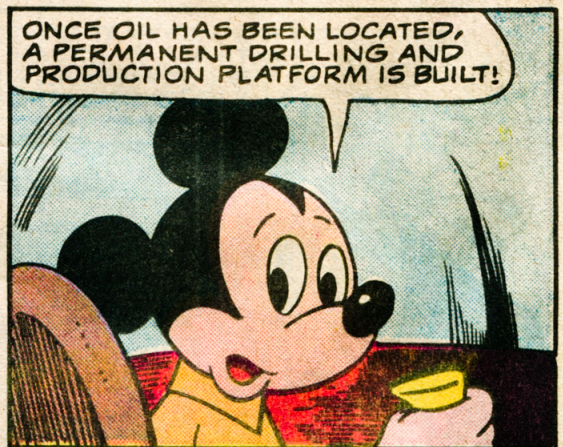
WOW! THAT'S OVER A MILE DOWN!



BECAUSE THE SHIP MOVES WITH THE WAVES, THE PIPE CONNECTION BETWEEN THE SHIP AND DRILL MUST BE FLEXIBLE!



WHAT HAPPENS TO THE OIL ONCE A DRILLSHIP FINDS IT?

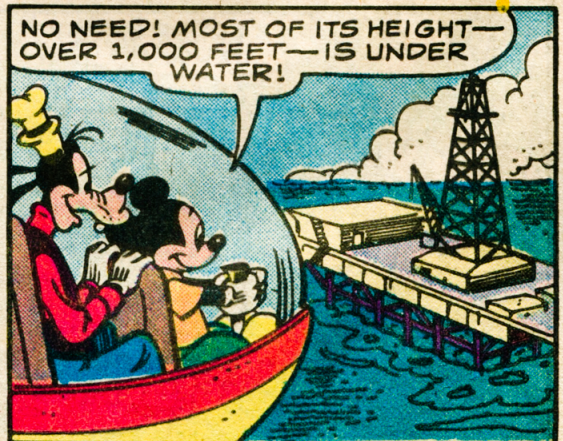


ONCE OIL HAS BEEN LOCATED, A PERMANENT DRILLING AND PRODUCTION PLATFORM IS BUILT!



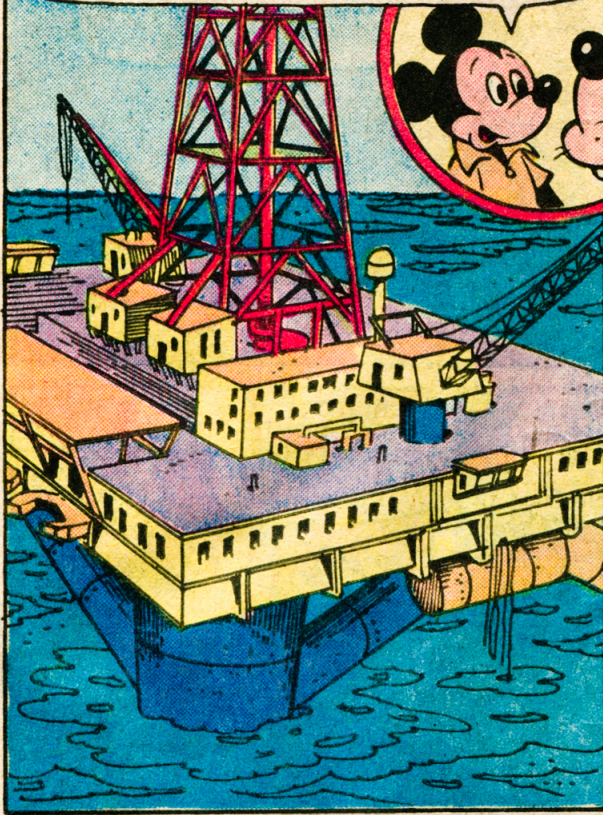
WE'LL FLY BY ONE, GOOFY! THIS ONE IS TALLER THAN THE EMPIRE STATE BUILDING!

TAKE 'ER UP QUICK, MICKEY!



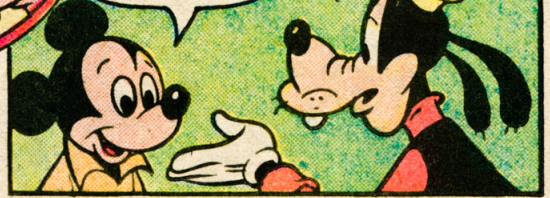
NO NEED! MOST OF ITS HEIGHT—OVER 1,000 FEET—IS UNDER WATER!

THIS PLATFORM IS AMAZING! IT WEIGHS MORE THAN 59,000 TONS AND COSTS 750 MILLION DOLLARS TO BUILD!

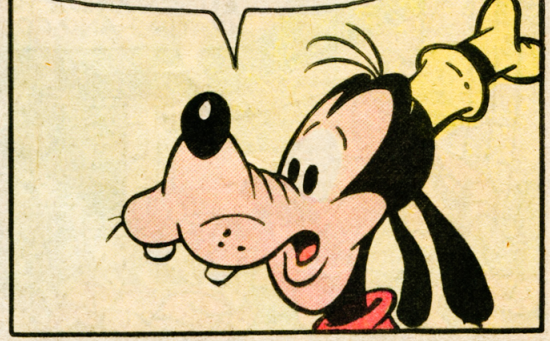


GAWRSH! THAT'S EXPENSIVE!

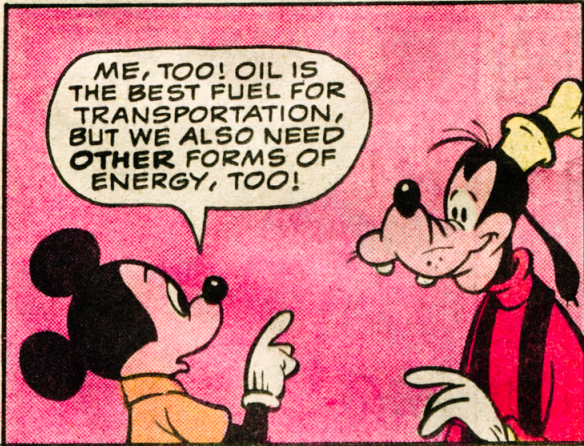
YUP! SO OIL COMPANIES ARE ALWAYS DEVELOPING MORE EFFICIENT WAYS TO FIND OIL!



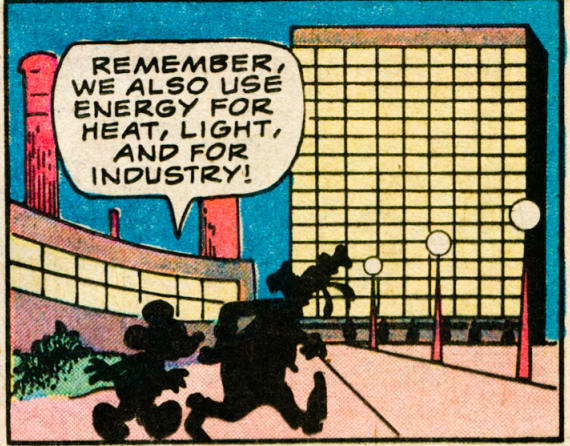
GEE, MICKEY—NOW THAT I KNOW HOW VALUABLE OIL IS, I SURE HOPE WE NEVER RUN OUT!



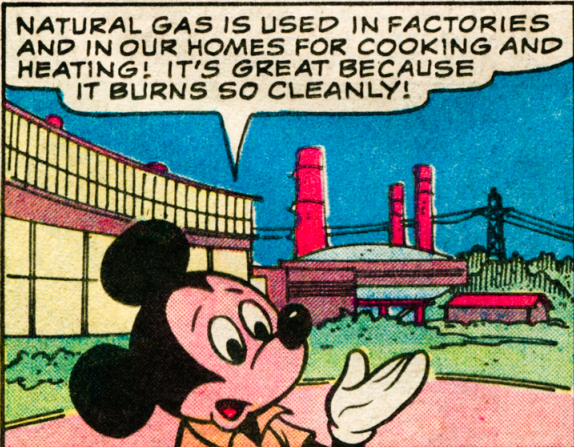
ME, TOO! OIL IS THE BEST FUEL FOR TRANSPORTATION, BUT WE ALSO NEED OTHER FORMS OF ENERGY, TOO!



REMEMBER, WE ALSO USE ENERGY FOR HEAT, LIGHT, AND FOR INDUSTRY!

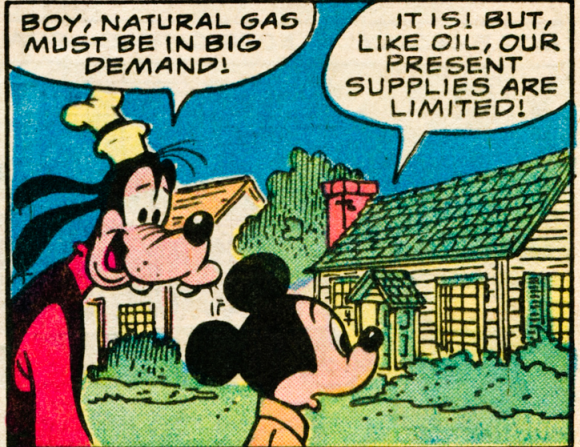


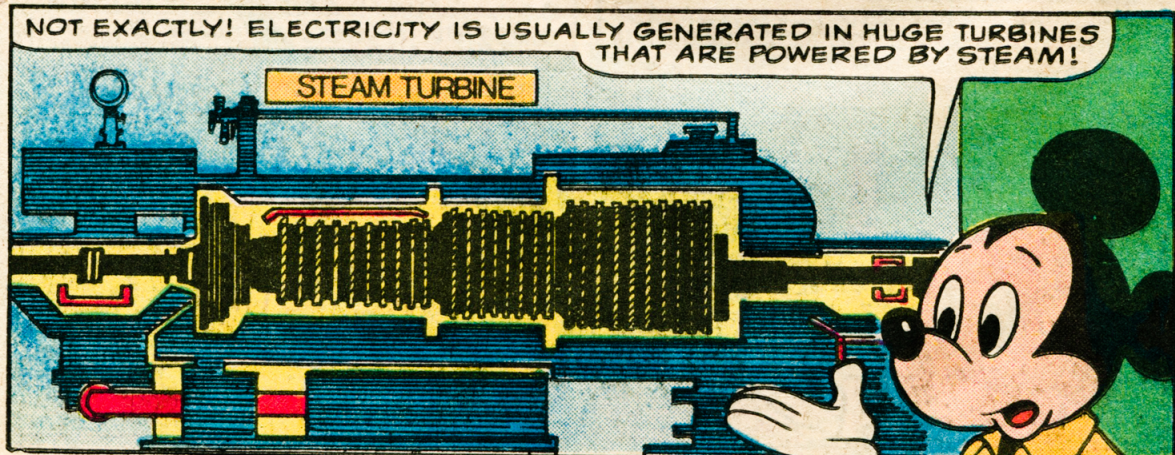
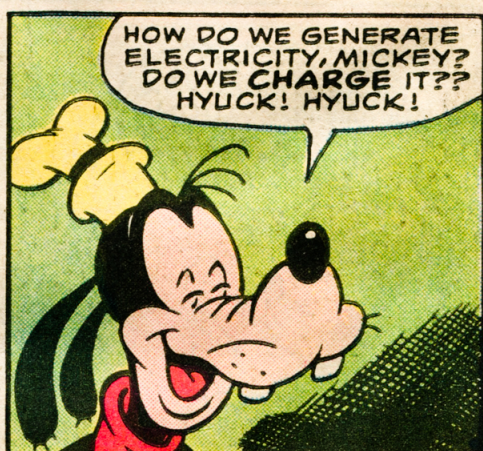
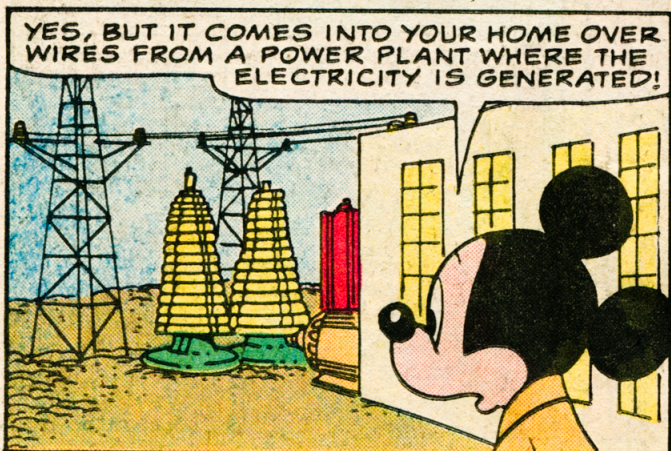
NATURAL GAS IS USED IN FACTORIES AND IN OUR HOMES FOR COOKING AND HEATING! IT'S GREAT BECAUSE IT BURNS SO CLEANLY!

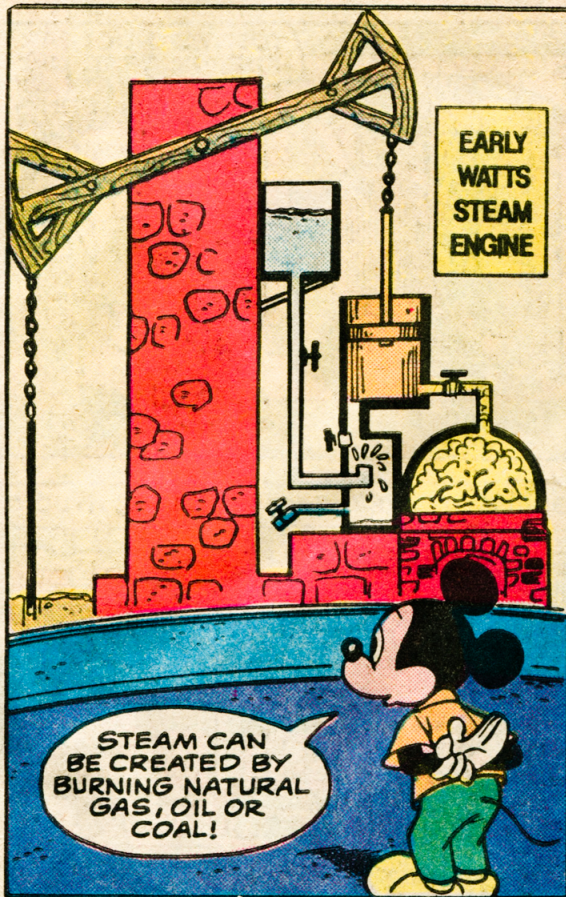


BOY, NATURAL GAS MUST BE IN BIG DEMAND!

IT IS! BUT, LIKE OIL, OUR PRESENT SUPPLIES ARE LIMITED!

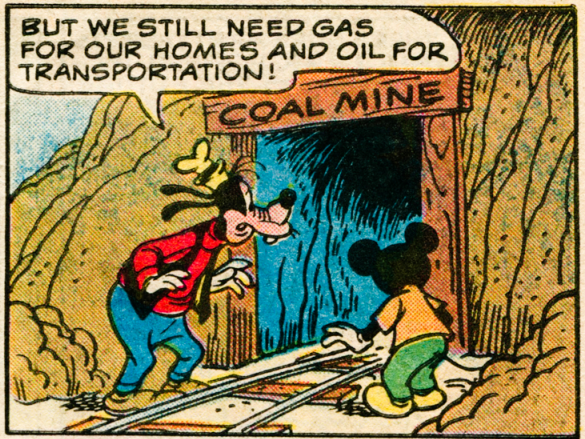




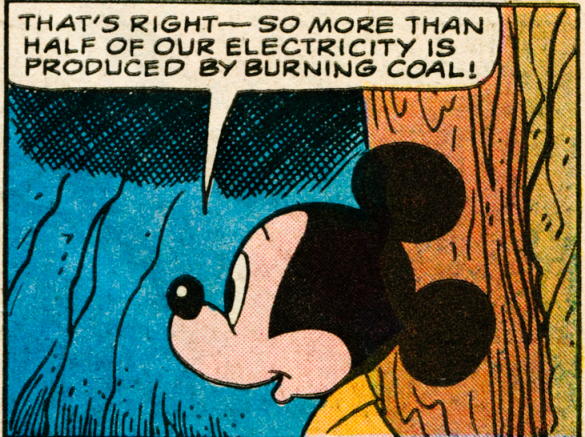


EARLY
WATTS
STEAM
ENGINE

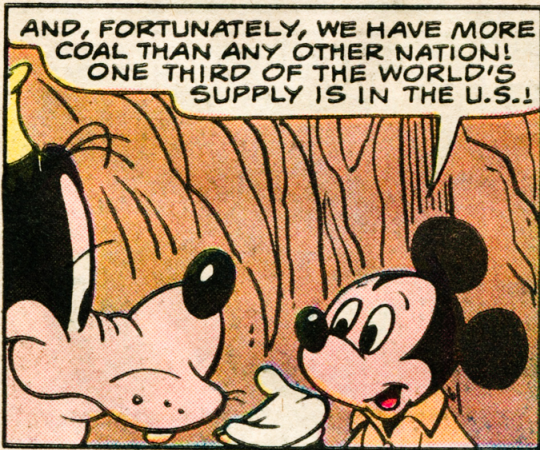
STEAM CAN
BE CREATED BY
BURNING NATURAL
GAS, OIL OR
COAL!



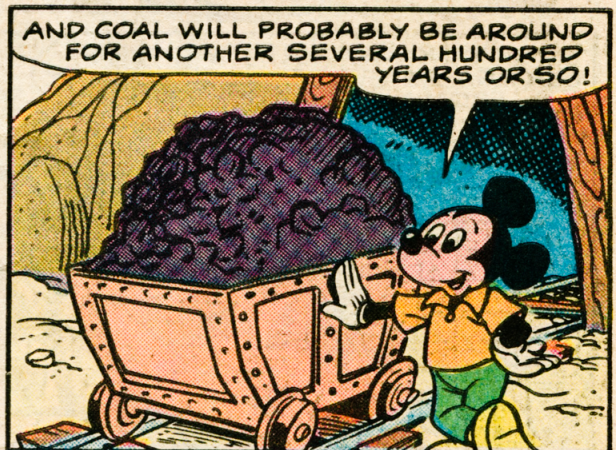
BUT WE STILL NEED GAS
FOR OUR HOMES AND OIL FOR
TRANSPORTATION!



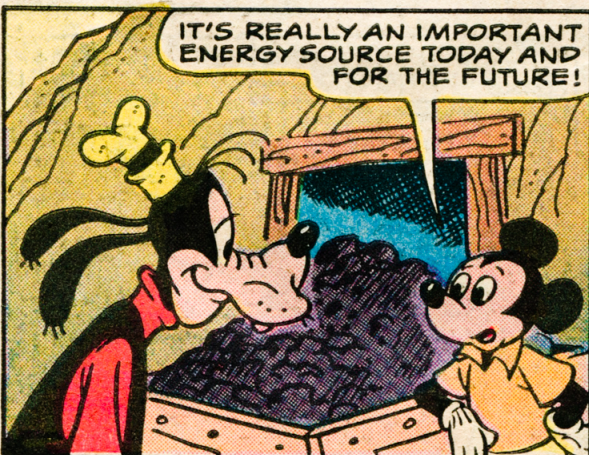
THAT'S RIGHT—SO MORE THAN
HALF OF OUR ELECTRICITY IS
PRODUCED BY BURNING COAL!



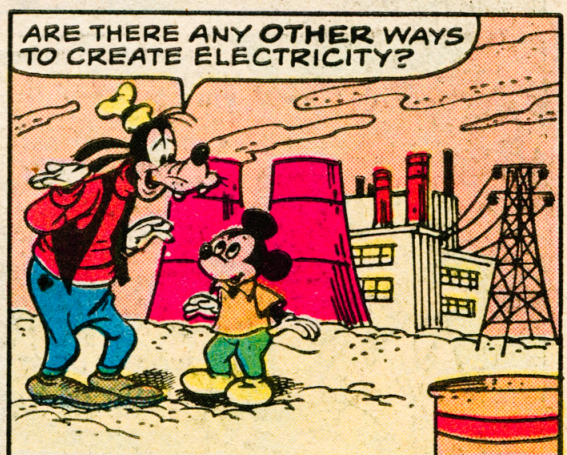
AND, FORTUNATELY, WE HAVE MORE
COAL THAN ANY OTHER NATION!
ONE THIRD OF THE WORLD'S
SUPPLY IS IN THE U.S.!



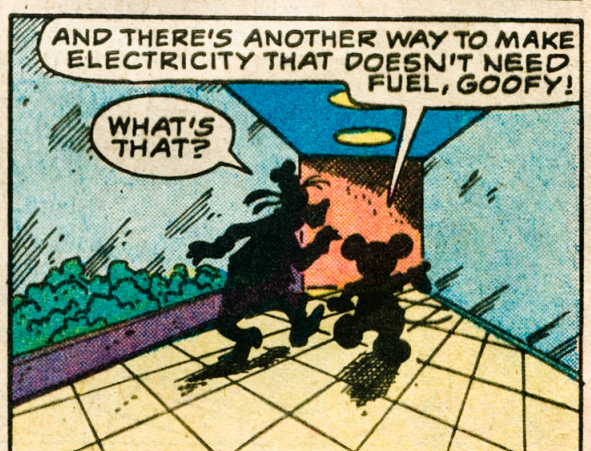
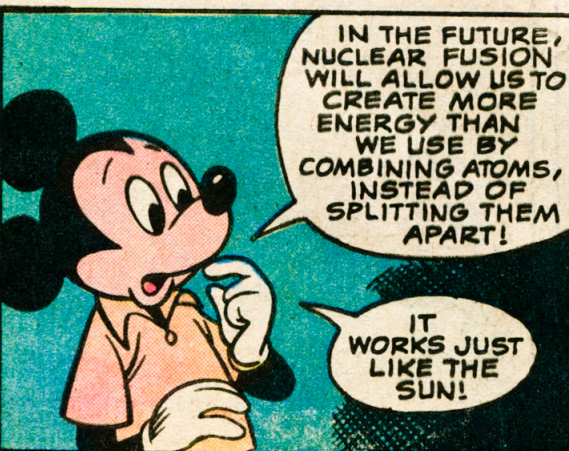
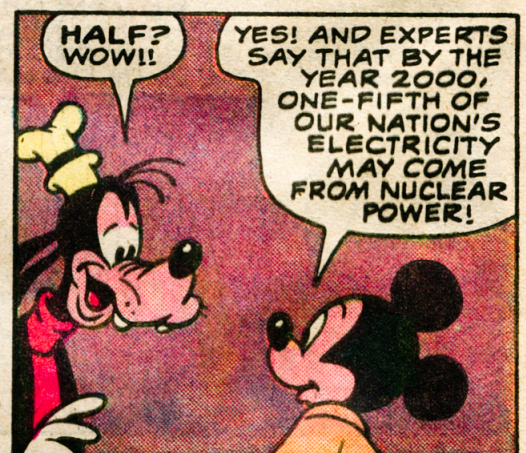
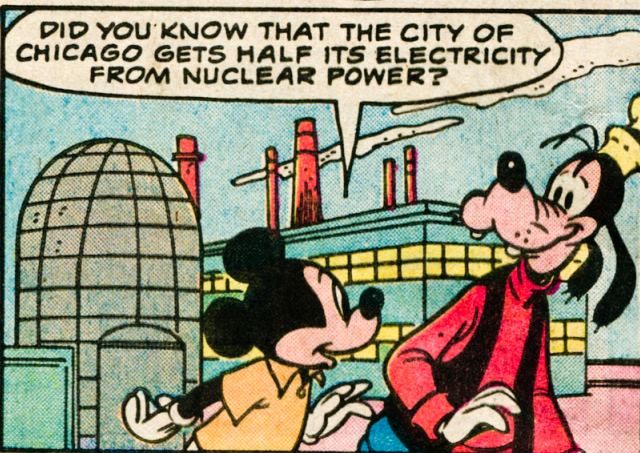
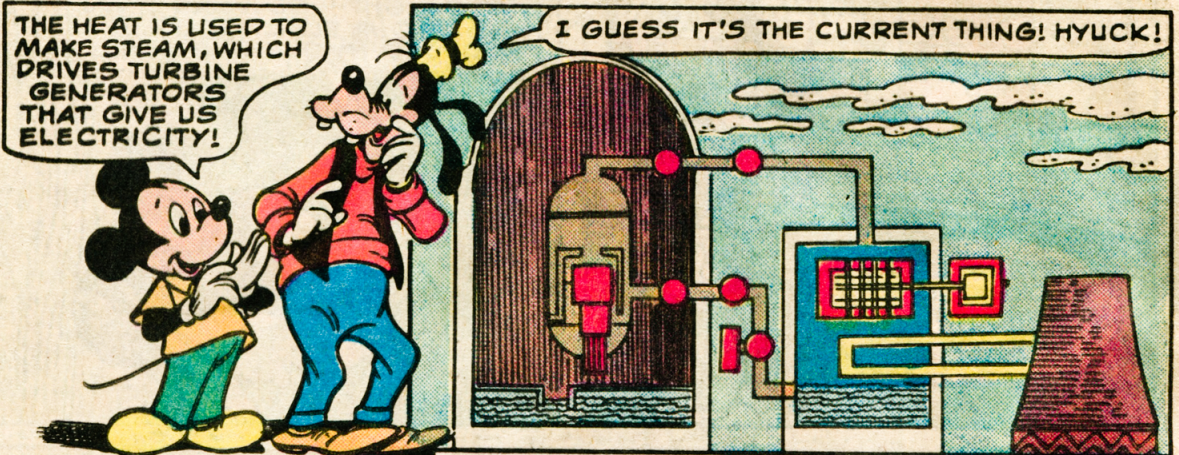
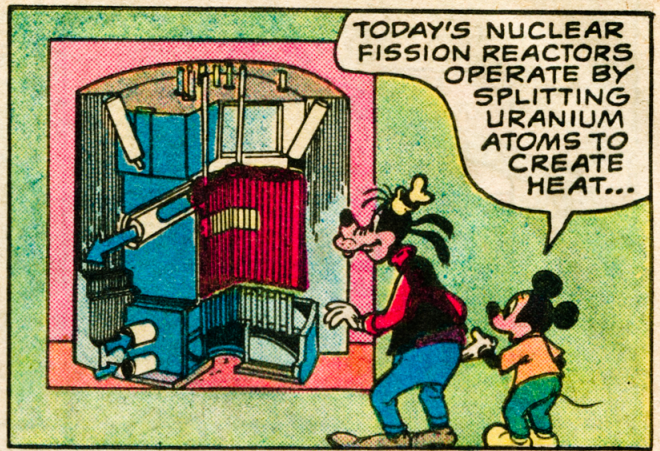
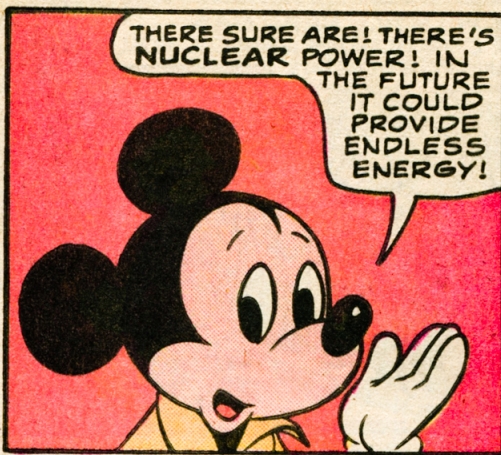
AND COAL WILL PROBABLY BE AROUND
FOR ANOTHER SEVERAL HUNDRED
YEARS OR SO!

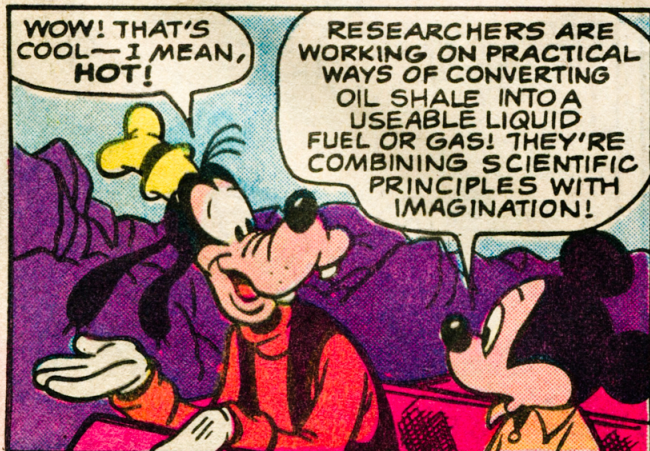
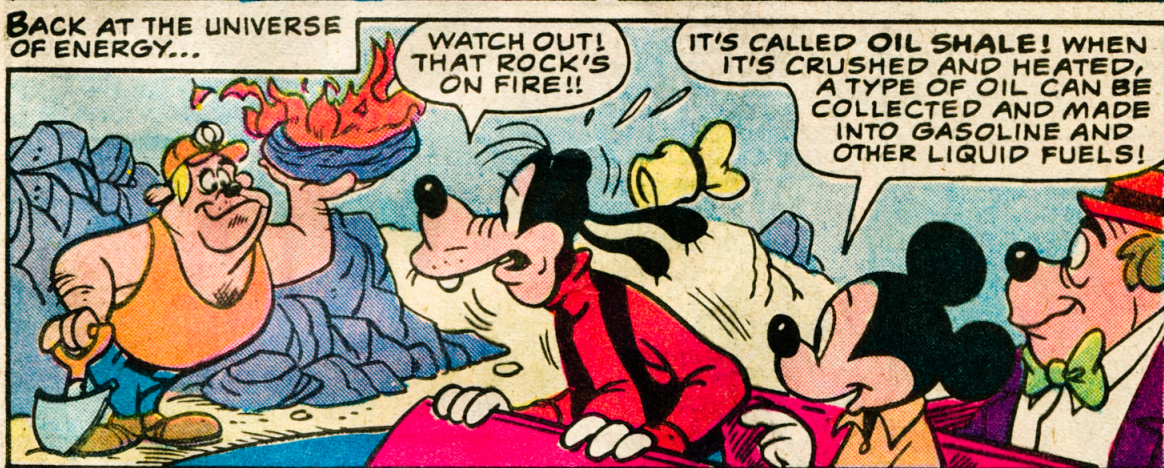
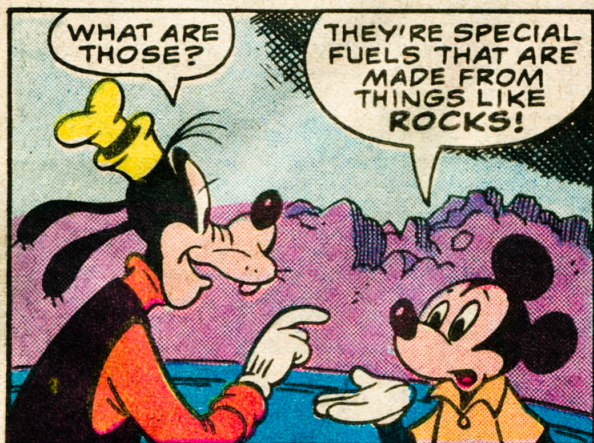
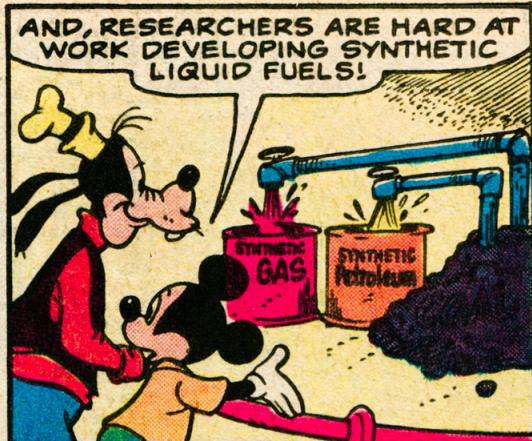
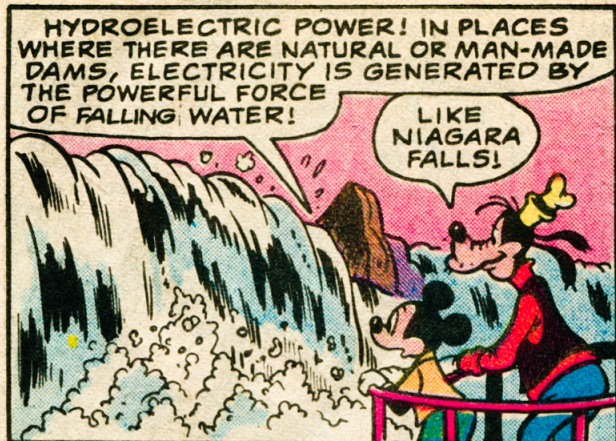


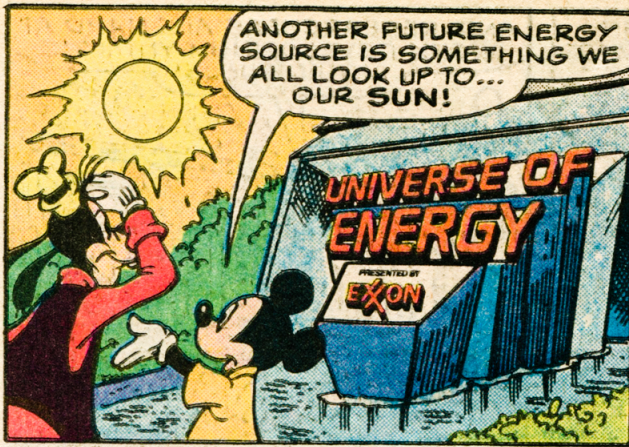
IT'S REALLY AN IMPORTANT
ENERGY SOURCE TODAY AND
FOR THE FUTURE!



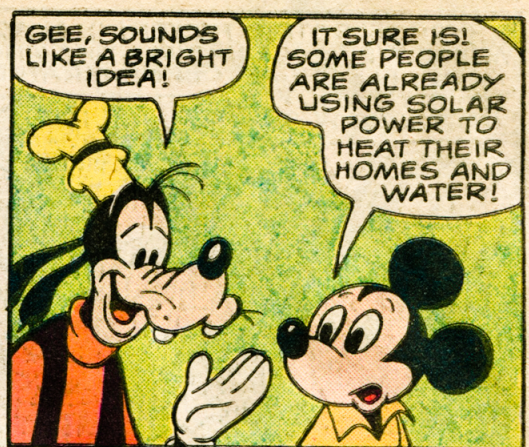
ARE THERE ANY OTHER WAYS
TO CREATE ELECTRICITY?





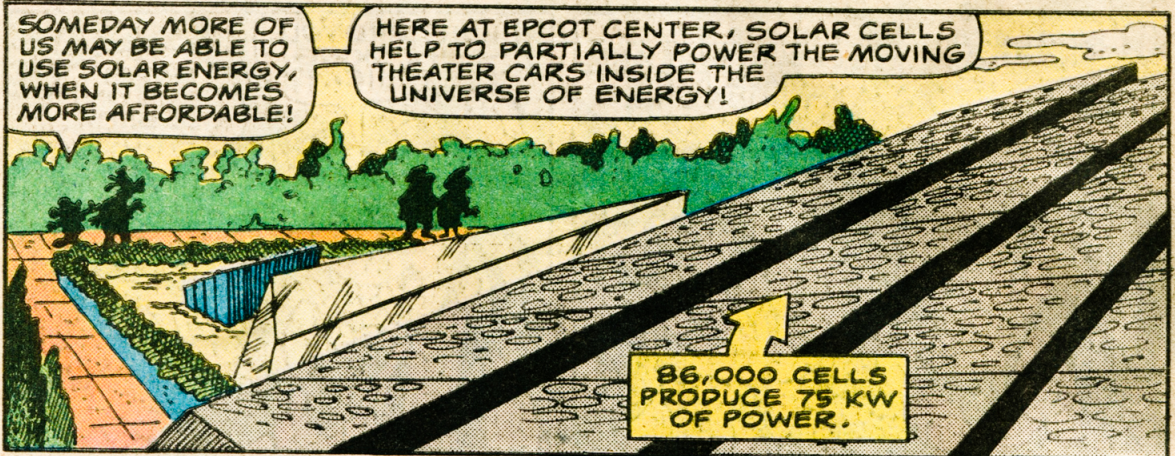


ANOTHER FUTURE ENERGY SOURCE IS SOMETHING WE ALL LOOK UP TO... OUR SUN!



GEE, SOUNDS LIKE A BRIGHT IDEA!

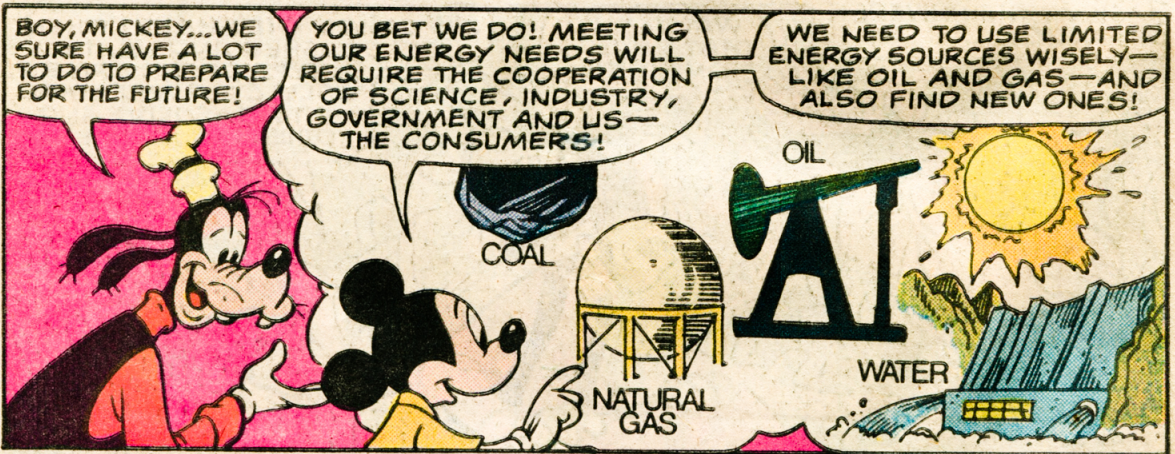
IT SURE IS! SOME PEOPLE ARE ALREADY USING SOLAR POWER TO HEAT THEIR HOMES AND WATER!



SOMEDAY MORE OF US MAY BE ABLE TO USE SOLAR ENERGY, WHEN IT BECOMES MORE AFFORDABLE!

HERE AT EPCOT CENTER, SOLAR CELLS HELP TO PARTIALLY POWER THE MOVING THEATER CARS INSIDE THE UNIVERSE OF ENERGY!

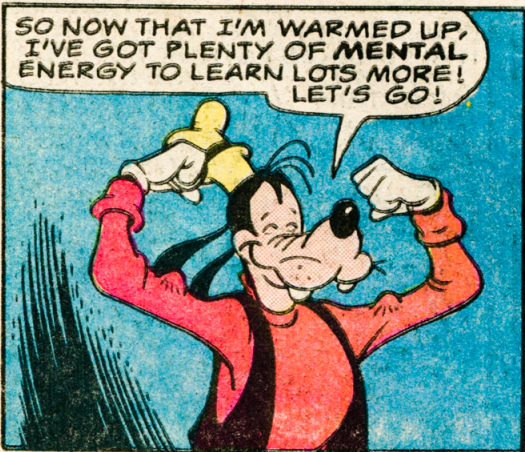
86,000 CELLS PRODUCE 75 KW OF POWER.



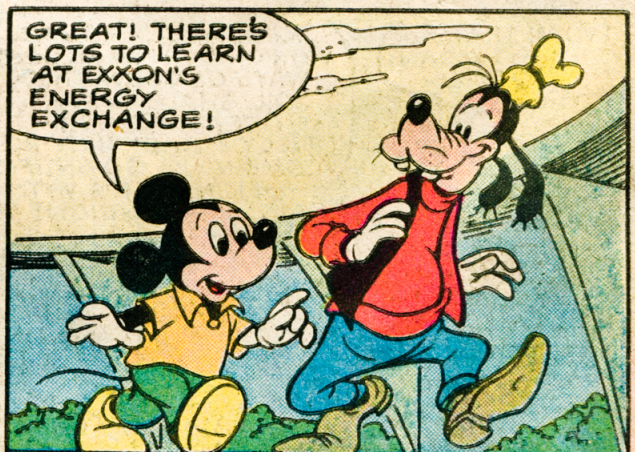
BOY, MICKEY...WE SURE HAVE A LOT TO DO TO PREPARE FOR THE FUTURE!

YOU BET WE DO! MEETING OUR ENERGY NEEDS WILL REQUIRE THE COOPERATION OF SCIENCE, INDUSTRY, GOVERNMENT AND US—THE CONSUMERS!

WE NEED TO USE LIMITED ENERGY SOURCES WISELY—LIKE OIL AND GAS—AND ALSO FIND NEW ONES!



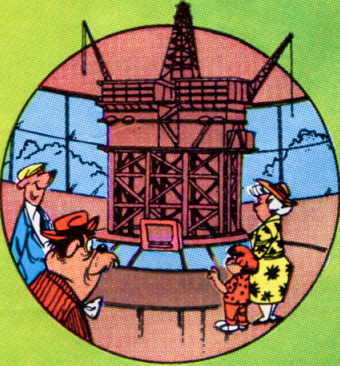
SO NOW THAT I'M WARMED UP, I'VE GOT PLENTY OF MENTAL ENERGY TO LEARN LOTS MORE! LET'S GO!



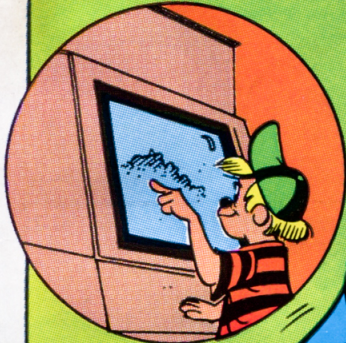
GREAT! THERE'S LOTS TO LEARN AT EXXON'S ENERGY EXCHANGE!

ENERGY EXCHANGE

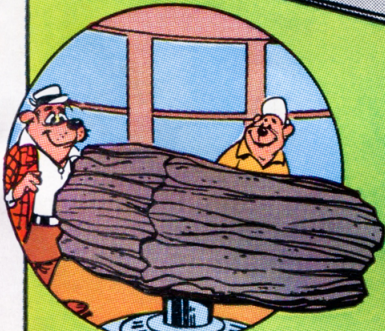
Presented by EXON to add to your energy knowledge.



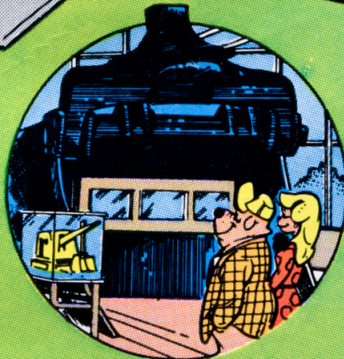
OFFSHORE DRILLING



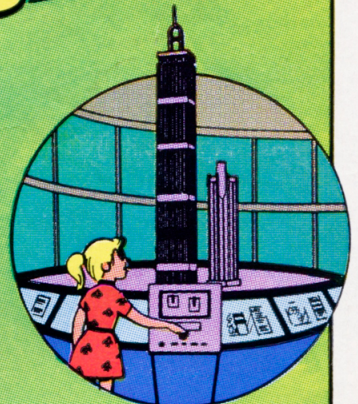
ENERGY INFORMATION TERMINALS



OIL SHALE



COAL



NUCLEAR



JUST THINK HOW YOU'D FEEL AFTER PEDALING AT THIS RATE FOR NINE DAYS! THAT'S HOW LONG IT WOULD TAKE YOU TO PRODUCE THE SAME AMOUNT OF ENERGY IN ONE GALLON OF GASOLINE!

ACROSS—2. Electricity, 4. Steam, 5. Drill, 6. Gasoline, 9. Oil, 11. Platform, 13. Drillship, 14. Gas, 15. Arctic.
 DOWN—1. Wind, 2. Energy, 3. Rig, 7. Solar, 8. Nuclear, 10. Offshore, 12. Fission, 16. Coal.
 The word: PETROLEUM



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On the road to EPCOT Center at WALT DISNEY WORLD® Vacation Kingdom — or wherever you're traveling — depend on Exxon's quality gasolines and motor oils available at Exxon service stations. They'll help you keep your car running smoothly for a worry-free trip.

And while you're at EPCOT Center, be sure to visit the fascinating Universe of Energy, presented by Exxon.

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