

Digging in the dirt pays in health and perhaps money when the dirt is in the home vegetable garden. Let the Agricultural Extension Service at Raleigh send you a free gardening bulletin, circulars 121, 122 and 123 are all good.

One breed of poultry, better houses and proper feed rations followed the organization of a community poultry association in Cleveland County by County Agent R. E. Lawrence.

Married Life "Well, how's married life? Does your wife judge you harshly?" "I'm on probation most of the time."

DON'T FORGET TO SEND ADVERTISING COPY IN EARLY Use WILLIAM TELL Flour for years, and you will always find it uniform. J. S. HOWELL. FOR FIRST CLASS JOB PRINTING PHONE 283 To Cure a Cold in One Day Take LAXATIVE BROMO QUININE (Tablets) It stops the Cough and Headache and works off the Cold. E. W. GROVE'S Signature on each box, 30c.

CEDAR ROCK HIGH SCHOOL News Of Interest To Teachers, Pupils and The Public Generally By School Correspondent The B. Y. P. U. has just completed a very interesting and helpful study course under the direction of Mr. Moreley of Wake Forest College. After a series of lectures the examinations were given Sunday afternoon and a high average of 97.5-9 was attained by the class on the examination. With the quarterly reports of the officers the union will have met the requirements for an A 1 B. Y. P. U. for the quarter; and we hope that it will be able to keep this standard which it has attained.

ding upon the kind of crude oil used. The stills are huge cylindrical steel tanks placed in a horizontal position with a brick furnace underneath. They are not equipped with tubes like water boilers are, due to the necessity for place to allow men to enter and scrape loose and remove the heavy gummy settlements which adhere to bottom of the still. After cooking for 24 hours, the still is yet so hot that a temperature of 155 degrees F. is endured by the men who enter to clean the still. A shift for these men is about an hour in length. Soot collects overhead inside the still and the heat often causes the soot to ignite, which drives the men out. These men are greatly amused when hearing complaints on the heat of summer, and the preacher cannot scold them very much by referring to flames in the hereafter. The highly acented air noted in the vicinity of a refinery comes from the stills when steam is used for the purpose of driving the gas out so that the cleaners can enter. Naptha and kerosene are treated with sulphuric acid and caustic soda preparations in agitators, which are tall tanks with dome-like tops. This treatment removes the most objectionable odors and the grease from the naptha and kerosene. Various economies are practiced in the way of using heat from the products of the stills, especially the fuel oil which is to be pumped into the stills, by using high pressure stills, in which the lower grades of products from the crude oil are re-run and "cracked," the yield of gasoline extracted or distilled is about 40 per cent of the crude oil gallonage. Naptha produced is about 3 per cent kerosene, 10 per cent distillates and gas oil 3 per cent, and loss about 5 per cent, the remainder being sold for fuel or road oil by the skimming plants. Gasoline is also now produced by compressing and condensing natural gas which is rich in gasoline vapor. This is known as "casinghead" or "wet" gas. The name "casinghead" comes from the control head on the top end of the casing in an oil well to which the gas pipe is attached. This grade of gas is found in wells which are also producing oil. Vacuum pumps weighing many tons suck the gas from the oil sand, which tends to draw off the lighter portions of the crude oil which evaporate easily from the vacuum pump, the gas passes through a huge compressor which subjects it to a pressure of 300 pounds per square inch. This action heats the gas to a very high temperature, and cooled the gasoline is precipitated in pipe coils over which water is constantly sprayed. This kind of gasoline is of such high gravity and volatility that it is said to make a car climb trees and telephone poles. For general and commercial purposes it is mixed with naptha to bring its gravity down to that of other commercial gasoline.

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The Senior Class presented their play "Adventures of Granpa" at Wise High School on Thursday night of last week. Mrs. R. A. Jennings, Miss Mary Smith and Mr. Richard Jennings, visited Aberdeen, Pinehurst, Southern Pines and other points last week. They will all be here Friday night; so don't miss it.

Student Editor: Decetfulness by Hattie King, 8th grade. What is decetfulness? What effect does it have on our lives? It is a word that all pure hearted people shudder at and the noble and honest draw back from in disdain. Its mark on any life is every thing but that which is beautiful and good.

When once our friends find a decetful trait in us, they no longer value our friendship. The world love sa frank heart and a noble mind, but few people really admire a man who is a true friend to their face and a deadly enemy to their back.

If we are decetful we are not likely to prosper. It will be the upright, true, honest and religious person that will prosper in the future. We do not want to be called deceivers of Christ and neither do we want to be called deceivers of his people. Many men and women are deceivers today. For example some man may meet with a girl in some place and the man, not knowing her character and she not knowing his, may woo and marry and after they are married he finds that he has been deceived for she was not what she seemed. They knew the decetfulness of each other when it was everlastingly too late.

Another example of decetfulness is Jacob the old Bible Character. He deceived his old blind father by preparing his favorite food and dressing himself in goat skin so he would resemble his brother. He not only deceived his father, but his brother Esau also and even went so far as to steal Esau's birth right. We see by this that decetfulness can lead us on to something worse and in the end it will mean the destruction of our soul and body.

Lavoisier Chemical Society Petroleum (By Boone Sykes) Petroleum has helped greatly in the spreading of civilization over the world. All the world loves light, which is so necessary for the reading habit and the spread of civilization, and in every continent, the most common illuminant for the family lamp.

The Arabian Nights, a book of a thousand and one units of a vivid imagination includes a story of a magic carpet on which its owner could sit and wish himself in any place where his fancy might direct and he was forthwith transported to that place. Little did the author of that story dream that it would become so near a reality as exists in modern times, when a colorless liquid can be placed in the tank of a machine weighing one or more tons, which will cause the machine and its occupants to travel where the birds can fly. This wonderful liquid is gasoline. Nearly all motorists know that there is some relation between gasoline and crude oil, but not many of them know how gasoline is produced from the "black gold" of the oil fields.

Petroleum collects deep down in the earth, especially in porous sandstones, with water and natural gas, the gas being lightest on the top, the oil next, and the water on the bottom. When the boring machine breaks the impervious cap that seals the oil sands, the oil gushes from the earth, due to the great pressure of the gas imprisoned with it. This sends the oil forth as soda water blows itself from a bottle.

Refineries engaged in the business of distilling crude oil are of two classes. The first class is refineries proper, while the second should be designated as skimming plants. A refinery proper distills crude oil into all the products that can be taken from it. A skimming plant distills it down to a certain stage, and the residue is used as fuel oil. The process of extracting gasoline and other products from crude oil is, in general as follows: Crude oil is pumped from storage tanks into a battery of several stills, each being filled to about two-thirds its capacity. Fire underneath the still, produced by gas or fuel oil heats the contents until a gas vapor is given off. The heated gas vapor is piped through a condenser box filled with water which condenses the gas to a liquid. A stillman makes frequent tests of the liquid to determine the points at which it is turned into various tanks. The first or most volatile product is benzine, then follow gasoline, naptha, kerosene, distillates and gas oil, in order as named. This is as far as a skimming plant carries the operation, the remainder being used or sold for fuel or road oil. A refinery proper reduces the residue to lubricating oil and grease of various grades, also wax paraffin and other materials, depend-

ing upon the kind of crude oil used. The stills are huge cylindrical steel tanks placed in a horizontal position with a brick furnace underneath. They are not equipped with tubes like water boilers are, due to the necessity for place to allow men to enter and scrape loose and remove the heavy gummy settlements which adhere to bottom of the still. After cooking for 24 hours, the still is yet so hot that a temperature of 155 degrees F. is endured by the men who enter to clean the still. A shift for these men is about an hour in length. Soot collects overhead inside the still and the heat often causes the soot to ignite, which drives the men out. These men are greatly amused when hearing complaints on the heat of summer, and the preacher cannot scold them very much by referring to flames in the hereafter. The highly acented air noted in the vicinity of a refinery comes from the stills when steam is used for the purpose of driving the gas out so that the cleaners can enter. Naptha and kerosene are treated with sulphuric acid and caustic soda preparations in agitators, which are tall tanks with dome-like tops. This treatment removes the most objectionable odors and the grease from the naptha and kerosene. Various economies are practiced in the way of using heat from the products of the stills, especially the fuel oil which is to be pumped into the stills, by using high pressure stills, in which the lower grades of products from the crude oil are re-run and "cracked," the yield of gasoline extracted or distilled is about 40 per cent of the crude oil gallonage. Naptha produced is about 3 per cent kerosene, 10 per cent distillates and gas oil 3 per cent, and loss about 5 per cent, the remainder being sold for fuel or road oil by the skimming plants. Gasoline is also now produced by compressing and condensing natural gas which is rich in gasoline vapor. This is known as "casinghead" or "wet" gas. The name "casinghead" comes from the control head on the top end of the casing in an oil well to which the gas pipe is attached. This grade of gas is found in wells which are also producing oil. Vacuum pumps weighing many tons suck the gas from the oil sand, which tends to draw off the lighter portions of the crude oil which evaporate easily from the vacuum pump, the gas passes through a huge compressor which subjects it to a pressure of 300 pounds per square inch. This action heats the gas to a very high temperature, and cooled the gasoline is precipitated in pipe coils over which water is constantly sprayed. This kind of gasoline is of such high gravity and volatility that it is said to make a car climb trees and telephone poles. For general and commercial purposes it is mixed with naptha to bring its gravity down to that of other commercial gasoline.

Where was the first oil field discovered? We feel very proud when answering this question with America. The oldest American oil field runs from south-eastern New York, southwest through western Pennsylvania, southeastern Ohio, and the adjacent parts of West Va., a territory 160 miles long and from 25 to 40 miles in width. Within 40 years after the discovery of the first well this field had 20,000 deep wells and 4,000 miles of pipe line to collect the oil in storage tanks and carry it to refineries. But oil prosperity is like a mushroom, so short is the life of fields. This is well shown in the case of Texas, which produced 4 million barrels in 1910, 23 million in 1905, and 9 million in 1909.

Transportation of petroleum. The fact that petroleum products are used in almost all countries and exported from so few necessities large transportation. The problem of handling this inflammable fuel has been difficult. At first barrels were used then came iron tank railway cars and lastly pipe lines where the traffic is great.

Petroleum as a source of power. The first great use of petroleum was for illuminating oil and then for lubrication, but with the opening of the twentieth century it has rapidly increased in use as a source of power. First came the engine run by gasoline, one of the petroleum products, now is so important in the automobile. Then came the use of crude petroleum as ordinary boiler fuel, chiefly used in ships. The third and newest use of petroleum as a source of power is in the German invention of the Diesel engine, an internal combustion gas engine which has the great advantage of being able to use the crude petroleum as it comes from the earth. It is so efficient that a gallon of oil costing from 2 to 5 cents will develop 15 horse power.

Our foreign trade in petroleum. The American trade in petroleum products is as wide as the world. Our oil makes better illuminating oil than that of Russia, and is sent, in the crude form, to some of the more important countries, while in the form of kerosene or refined petroleum for lamps it is distributed more universally than any other product of the American export. In 1910 the export of illuminating oil was about a billion gallons and that of lubricating oil and crude oil each about a sixth as much.

Newspaper a Business Guide The newspaper that carries a good line of advertisements is to the shopper what the time table is to the traveler and the published guide is to the tourist. Busy people will study these advertisements in the home or in the office as they do a time table, and, before they start out shopping they have determined where they are going.

The newcomer or the visitor in the city finds the advertising columns of a newspaper a reliable guide to follow, just as he finds the printed guide for tourists to points of interest a matter of interest and time-saving.

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