

## New Flowing Device

The Kelly flowing device is a patent device for flowing oil wells or flowing water off gas wells. It has been used in Texas for nearly a year. Within the past few months it has been introduced in Oklahoma by Emmett L. Arnold of Tulsa and is now being used in the fields of Burbank, Bristow, Cushing, Okmulgee and Henryetta, with its use spreading as operators become more familiar with its advantages. Some of the most successful companies and operators are using it.

The Kelly eliminates pumping expense. Also it produces a well constantly 24 hours a day. Some operators are taking advantage of that fact to flow the production through a gas trap, using the gas for drilling wells or lease purposes and thereby saving the money they would otherwise pay for such gas. In most cases the Kelly has given an increase of production. Also it eliminates loss of production from pulling rods. It is installed in wells which have begun to flow by heat, or in pumping wells to save pumping expense.

The patent feature of the device is based on the jets used. The gas is trapped by a funnel arrangement and passed through a jet under high velocity, atomizing the fluid and creating a partial vacuum or release of pressure in the field immediately below the jet. This partial vacuum is instantly refilled with fluid from below, and the action repeats itself so rapidly that it flows the well. The funnel keeps a cushion of gas on the jets at all times. Wells making water are being produced without cutting the oil, the oil and water coming out together. The number of jets used and size of device depends on the well.

By regulating the point at which the perforation is set, the water where a well makes water, can be taken off before the oil, keeping the water off the sand. The device is handling sand, flowing it off with the production.

There are no adjustments to be made after the device is set, the device being run on a string of tubing. It does not act as a packer, some of the gas coming out the casinghead. The casinghead plugs can be left open.

The volume of gas and rock pressure required to produce a well with a Kelly varies with conditions of depth, gravity of oil, amount of water and amount of oil. The distributors consider 100,000 cubic feet per day sufficient gas to operate any ordinary well, and many wells can be flowed with less. To start a device in operation requires more gas than to keep it in operation; therefore outside pressure is frequently inserted at the casinghead to help start the operation. To start the operation requires generally between 35 and 70 pounds pressure, depending on depth, gravity of oil and amount of oil and amount of water present, while 15 to 20 pounds keeps it in operation under ordinary conditions.

The distributors, Emmett L. Arnold & Co., 225 South Boston, Tulsa, welcome all inquiries as to the operation of the Kelly.

An electrically-heated pen has been invented to prevent checks being altered, the writing being scorched into the paper.

## Scouting De Luxe



Tulsa oil men are on the job in every field where oil is produced and are right there at the very beginning. When the Duncan field was first discovered, C. J. Welchman, prominent oil man of Tulsa, with a party of friends made the trip out, to be sure of finding a place to sleep, chartered a second Pullman car, and invited a few friends, arrived on the scene bright and early the next morning after leaving Tulsa. It is noteworthy that among them all there was no divergence of opinion as to the probability of success of this pool, and the party returned to Tulsa without making any very great investments.

## A Railroad That Follows The Trend

One of the most interesting of the many interesting happenings in the oil country is the Southwestern Railway company's way of doing business, which is unique, to say the least. Ordinarily the railroads appear to keep away from the oil wells, as far as possible, thus entailing heavy charges for hauling, whereas the Southwestern, owned by Thomas Slick, one of the old-time oil men, and one who had the honor of drilling the first well in the Cushing field, is running right out through the country to the wells and it therefore eliminating freight charges.

The oil country surrounding the town of Slick is undergoing very rapid development and is therefore much benefited by the new plan of meeting new pools as they are developed and getting the rig timbers on the ground with the minimum expense of hauling.

Research Division Engineer. Harmon F. Fisher has been appointed an engineer, connected with the research division of the American Petroleum Institute. Mr. Fisher has been a consulting engineer and was previously engineer in charge of operation, United States government helium plant No. 3, Pottsville, Texas. At various times he has been connected with the Gifford Engineering company, Research Corporation and Westinghouse Electric Manufacturing company. At one time he was assistant professor of electrical engineering, University of California. Mr. Fisher's professional work covers a wide range of investigations related to technical features of the petroleum and allied industries.

## One of Bartlesville's Newest Buildings



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## BARTLESVILLE

The City of Opportunity

IT IS perhaps unnecessary to direct attention of Oklahomans to any particular part of Oklahoma. It is only necessary to open our eyes and see. Nevertheless, it is worth while to think on these things which have been developed in the state within a very brief space of time.

The advertisers whose names appear on this space are but a very few of the many strong and progressive growing institutions of this city. These, as well as many others have been built on a permanent basis, and in these strenuous times of business depression are secure because of the substantial way in which they have conducted their business.

Bartlesville has always enjoyed a very steady, substantial and permanent growth. Its streets are paved, its schools are erected, its homes are built, its business life is conducted, its social life is enjoyed, and its moral and religious life is organized with an idea toward a definite future development and prosperity. No city can take more pride in its development than Bartlesville, and no city can show more to be proud of than Bartlesville.

Bartlesville a few years ago heard the call of "Opportunity." It has proven to be a city of opportunity and the fact of its development during these brief years show very vividly that it has "built well." Bartlesville has grown from a struggling village to a city of some twenty-five thousand people having within its midst a number of industries, and invites new investors who are looking for a city where opportunity is open for big development.

Here, within the limits of the city, was drilled the first oil producing well of the state. Though it was drilled in 1896, it is still producing, thus proving that the Bartlesville oil field is of long and permanent endurance. While it is true that Bartlesville is an oil center, yet it is located in one of the most fertile regions of the state for all agricultural development. We have need for more farmers. The opportunity is here, the virgin soil is here, and it is but necessary to apply the disposition and desire to till the soil, and the story of success will begin in this line.

Bartlesville has a strong Chamber of Commerce working for the advancement of the community and city. Any inquiry directed to this body will receive careful consideration and authentic information.

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