The act is interpreted to apply to states where the actual exditures are made and the work is by the counties, but a general way by a highway department. No fedmency will be paid for work ich cannot be proved to have been momically dene. Bids for work nt have been advertised, and the stract must have been awarded to lowest responsible bidder, unless be satisfactorily proved that it was antageous to accept the higher otherwise the federal aid will the actual cost of the road.

The office of public roads must

ce in all the work for which apration for federal funds is made."

t will be noticed that the governt clearly states that "no part of process will bring the cost of road y or indirectly for the payment umbia county, as sparsely settled as ors of white and colored lights, vary-



TO BE GIVEN AWAY BY ROYAL CONFECTIONERY AND STRAND

satisfied in advance of a contract had been followed the county of the graft, that a representative may Multnomah would have saved just No part of federal money is about \$257,000 on the million and CAN SEE THE be used directly or indirectly for a quarter of dollars paid a certain concern in Portland that laid 98 per any patented or proprietary ma- cent of the hard surfaced road in For the first time in eleven years rist, specification, process or type that county. The construction comconstruction, unless purchased or pany referred to figures on 25 per is the northern lights, will be visible when set on fire at night produced competitive bidding cent for royalty and 20 per cent for to the people of Oregon within the a startling pyrotechnic display. Ascost that the un- promotion. Their price was about ented articles or methods equally \$1.58 per yard. If we could take off ward 11. McAlister, professor of struction of palaces of Nineveh and this 45 per cent, the price would be mechanics and astronomy of the Uni- Babylon, the Tower of Babel and the reduced to about what it is really versity of Oregon. This phenomenon Temple of Solomon, many evidences worth. If those who were respons- is bright to the people of this lati- of which remain in the petroleumthie for paying the high price Mult- tude only during the time when the cemented walls that have endured for and payments are so noman county paid for this patented sun spots have reached their maxi- more than 3000 years. that the United States pavement didn't get something out mum number. The sun spots reach olic roads and rural en- of the deal it was because they didn't their maximum only once in eleven ill have a dominating in. ask for it, because it was surely there. Hard surfacing is the proper McAlister, there seems to be some thing for the main trunk lines of connection between the size and num-

of a premium or revalty on any pro- it is, cannot stand the burden. Hard ANTIQUITY OF prorated to the lowest bid and prietary material \* \* \* unless surface the main trunk lines, and purchased or obtained by open com- macadamize the roads into the interpetitive bidding." If this program for, but cut out the promotion and

winter of 1916-17, according to Ed- phalt was used extensively in the conyears, and, according to Professor this or any other county, but a 40 ber of the spots and the intensity of per cent premium on the patented the display of the northern lights.

The aurora borealis will appear federal money is to be used di- building to such a figure that Col- near the northern horizon in stream-

ing in length from two or three to several hundred miles. It is probable that the only lights which will be visible to the people of this latt-tude will be the white streamers. In the colder or more northerly latithe colder or more northerly latitudes the display may show streams of green, yellow, red and purple.

Another interesting phenomenon will appear in the heavens on November 15 and 20 in the form of shooting stars, according to Professor McAllster. A smaller display may also be seen on October 20. Shooting stars may be seen but once a year, during the time when the earth cuts through the orbit of the planets from which the stars come. The display which is due November 15 may be seen in the early hours of the morning. That of November 20 may be seen in the early evenig.

### PETROLEUM

mentioned by Herodotus 450 years before Christ, and Alexander the Great in Babylonia was attracted by AURORA BOREALIS fountains and springs of oil. On one occasion at least he was amused by a trail of petroleum spread along the

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PROP.

# Scientific Proof of Maxwell Fuel Economy

In a test made by David L. Gallup, M. E., Professor of Gas Engineering, Worcester Polytechnic Institute, a stock Maxwell Touring Car made from 23 to 33.7 miles per gallon of gasoline at speeds ranging from 10 to 35 miles per hour. We reproduce a letter from Professor Gallup concerning this test.



Deferred Payments If Desired

DAVID L. GALLUP, M. E. Consulting Engineer

waters was Sopt. 1st, 1916.

Maxwell Motor Co. Inc., Detroit, Michigan.

Gentlemen: -

I beg leave to submit the enclosed blue print giving the results of an economy test made on a 1917 Stock Maxwell Touring Car. furnished by your Boston representatives.

The curve is self explanatory and needs no discussion other than the statement that the carburetor, which was stock, was adjusted to give the best combination of power, flexibility, speed and economy, for such conditions of touring as would ordinarily be encountered.

In tabular form the results (taken from the curve sheet) are as follows:

ECONOMY (Miles per gallon) (Miles per hour) 10 15 20 25 30 35 28.8 26.1 23.0 Respectfully submitted,

DLG/K

A. L. Gallys.

NOTE that no unusual means were employed to get these results. The car used was taken from stock; the test was made with a full load and with top and windshield up; the regular Maxwell carburetor

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