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# More Efficiency And Less Cost To Pump Water

## Wilkin M Liberal S Yale V

A. H. W. Crossley of Nelson  
Tells Features of Diesel  
Engines

IS EXPERT ON GAS  
PUMPING MACHINERY

This Type Is Simple To  
Start and Has Low  
Power Cost

Mr. A. H. W. Crossley, an expert on pumping machinery, was a visitor here this week from Nelson and met Mr. Percy Bent of the Pacific Flume Works in connection with irrigation pumping matters. Mr. Crossley stated that he contemplated opening up a branch of his business here.

In an interview with The Herald on pumps and engines for irrigation he discussed particularly Diesel and producer gas engines, and said:

"Power costs for this type of engine are extremely low, operation is free from complicated detail and the machine is as simple to start as an electric motor.

"They can be operated by persons who have a very rudimentary knowledge of mechanical details. In many cases they are run by coolie labor. The costs of engines have been and are constantly being reduced, also the operating efficiency increased. The most modern type of solid injection cold start engines are now running with a consumption of less than .38 pounds of fuel per brake horse power hour. Thus an engine of 100 h.p. will develop its full load with 38 lbs. of crude oil per hour on a 24-hour run at a cost of approximately \$10 per day for fuel and \$2.40 per day for lubricant. With direct belt drive to pump and over all efficiency of 70%, this power will pump 12.25 acre feet per day against 100 feet head with fuel oil at 11c per gallon and lubricating oil at 70c, and also allowing for attendance, at a total cost of \$2.32 per acre foot. A plant to deliver the same amount of water against 150 feet head would cost \$2.44 per acre foot. Against a 200 feet head, the cost would be \$3.22 per acre foot.

"A plant suitable to deliver 30 acre feet in 24 hours against a head of 250 feet would necessitate the installation of a 600 h.p. engine, which would operate at a cost of \$92 per 24 hours, including labor, fuel oil and lubricating oil. Thus the cost per acre foot would be \$3.06 with the above plant. Attendance costs are based on \$15 per day on small plants and \$18 on larger ones.

"A similar plant but operated by producer gas would bring the cost down to \$2.60 per acre foot. I wish to point out that the above costs are straight operating costs and do not take into account interest or depreciation, as these are matters of varying opinion.

"The modern Diesel engine built in the British Isles is remarkably free from maintenance costs and has a long useful life. The case in point, one firm has 15 engines out and during the last two years repair parts sent out for the above engines have not exceeded \$70, which is less than \$5 per engine. Pumping by Diesel power is done to a very considerable extent by various corporations in the British Isles, one firm having installations in units of 500 h.p. in the London district.

"I am at present investigating Princeton coal with a view to its use in producer gas plants. Producer gas is probably the cheapest power available, in districts where direct power is not available by the municipalities themselves.

"Power with producer gas can be developed at the rate of one brake horse power with two pounds of the usual run of British Columbia wood or one pound of coal.

"I propose to write an article on the use of producer gas in a later edition of The Penticton Herald, giving cost of electrical development with producer gas engines."

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