

# CANADIAN ALLIS - CHALMERS, LIMITED

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HEAD OFFICE, 212 KING STREET WEST  
TORONTO, CANADA

CABLE ADDRESS: "CANAC" TORONTO

Vancouver, B.C.,  
July 4th, 1930.

Mr. J. Goldie,  
Okanagan Centre, B.C.

Dear Sir:

RE: IRRIGATION PUMP  
400 acres - 330 ft.  
QUOTATION #1414

We wrote you under even date on pumping 120 acres, 280 ft. elevation and we will now go into the matter of supplying both the 400 acres and 120 acres with a combined unit. We have figured it out and find a one pump unit the most feasible, but will show you how we figure it step by step, so that if we are wrong you will be able to advise us.

### Figuring 2 Pump<sup>s</sup>

The lower pump at the lake should have capacity enough to take care of the 400 acres above as well as the 120 acres lower down.

The 120 acres will require a pump of about 600 U.S. G.P.M. for  $2\frac{1}{2}$  acre feet (See other letter of this date)

The 400 acres at one acre foot will require a pump with 700 U.S. G.P.M. and for the two acre feet you will require a pump with capacity of 1400 U.S. G.P.M.

So, if you want 2 acre feet on the 400 acres, the pump at the lake will have to be a 1400 gal. pump. Also, the second pump will have to be this capacity. And when pumping for the 400 acres there will be none for the 120 acres. If you figure on pumping for the 120 acres for a few days, the lower pump will be larger than you need for the 120 acres unless you can take care of a large volume of water in a short time.

So, summing it all up, we feel that if you had a pump of 1000 U.S. Gal. per minute, the lower pump will have capacity for 1 acre foot for the 400 acres and about  $1\frac{1}{2}$  acre feet for the 120 acres, both at the same time. If irrigating each tract

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singly you will get enough for  $1\frac{1}{2}$  acre feet for the 400 acres and then for the 120 acres you can shut down the discharge valve and have plenty. To do this the lower pump will be 1000 U.S. gals. per min -  $\frac{3}{4}$  mile - 280 feet elevation, and the second pump 1000 U.S. G.P.M. -  $\frac{3}{4}$  mile - 50 ft. elevation - discharge pipe 10". We quote:

LOWER PUMP

- 1 - Allis-Chalmers Centrifugal pump - bronze fitted,  
Size 5" x 4" - Type MJ  
2 Stage - Kingsbury type thrust  
Capacity - 1000 U.S. G.P.M. - 325 ft. head  
Pump mounted on cast iron base, flexible coupling,
  - 1 - Canadian General Electric motor - 125 HP -  
1800 RPM, Type KT, 3 phase, 60 cycle, 2200 Volt,  
with hand starting compensator with overload and  
undervoltage protection,
- PRICE NET Your station ..... \$3100.00.

SECOND PUMP

- 1 - Allis-Chalmers Centrifugal Pump - bronze ditted,  
Size 6" x 6" - Type SF  
Single stage - double suction-  
Capacity - 1000 U.S. G.P.M. - 100 ft. head -  
Pump mounted on cast iron base, flexible coupling,
  - 1 - Canadian General Electric Co. - motor 40 HP -  
1800 RPM, Type KT - 3 phase - 60 cycle -  
440 or 550 volts with hand starting compensator  
with overload and undervoltage protection,
- PRICE NET Your station ..... \$ 930.00.

Now, for a single pump unit at Woods Lake, with capacity for two acre feet on the 400 acre tract, of which, if you do not need so much, some can be piped off for the 120 acre tract.

- 1 - Allis-Chalmers Centrifugal Pump - bronze fitted -  
Size 6 x 5 - Type MJ - 2 stage, Kingsbury type  
Thrust, Capacity 1400 U.S. G.P.M. - Head - 400 ft.
  - 1 - Canadian General Electric Co. motor - 200 HP -  
1800 RPM - Type KT - 3 phase, 60 cycle - 2200 Volt,  
with hand starting compensator with overload and  
undervoltage protection,
- PRICE NET - Your Station ..... \$ 3800.00.

This price is slightly less than the two units but the horse power of the two units together is less.

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The equipment on which we have figured is the best quality we know of. Should you find we have not figured the way you planned, we will go over it if you will let us know. We shall be pleased to continue with you and figure out your pumping proposition most carefully,

Yours very truly,

CANADIAN ALLIS-CHALMERS LIMITED

*A. F. Brattin ger*  
VANCOUVER DISTRICT.

AFF:G