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BUREAU OF LIGHTHOUSES
APR 4 1913
DEPT OF COMMERCE

Diaphone Signal Company

Toronto, Canada, March 31st, 1913.

Roscoe House, Esq.,
Office of Lighthouse Inspector,
10th District, Federal Building,
Buffalo, N. Y.

Dear Sir: SUBJECT: YOUR PROPOSAL #1812

Supplementing our proposition of March 11th, regarding that part of your proposal pertaining to auxiliary pump, if you find it advisable to use a different type from that on which we quoted, we will furnish any one of the three following outfits at the same price as covered by our proposition;

First: Fig 68 Deming Working Head mounted on heavy cast iron sub base and direct connected with Type M Drive with friction clutch coupling connecting and including one of our 2 HP type T Vertical Oil Engines. Working Head to be provided with 2-3/4" inside diameter x 16" all brass working barrel with bronze ball valves and 10 feet of 2-1/2" Octagon Wood Pump Rod for connecting Working Barrel to Deep Well Head. Floor space required 25" x 4 feet 1-1/2"; capacity figured on piston displacement 492 gallons per hour.

Second: Fig 72 Deming Deep Well Working Head as shown by photograph #365 attached mounted on heavy cast iron sub base and direct geared without friction clutch couplings to one of our 2 HP type "T" Vertical Oil Engines. Working Head to be provided with the same cylinder and pump rod as specified above. Floor space required 25" x 3 feet 6"; capacity figured on piston displacement 492 gallons per hour.

The fuel consumption of either of the above outfits will not exceed two gallons of 39 deg. distillate, kerosene or gasoline for the above rated load for a period of 10 hours.

Third: Fig 300 2 Hp combined engine and pump of the Standard Pump & Engine Co's Manufacture as shown on page 12 of their catalog No. 12 engine fitted for gasoline only, floor space required 28" x 3" 6"; capacity figured on piston displacement 800 to 1000 gallons per hour depending on speed.

The manufacturers of the above equipment advise that the fuel consumption will not exceed three gallons for the

full 2 HP in ten hours. Inasmuch as your conditions will not necessitate the engine working up to its full capacity, it will only be reasonable to assume that this engine will not consume more than two gallons under the conditions encountered with your installation.

If there is further information you require pertaining to this subject, we should be glad to hear from you.

Yours very truly,

Diaphone Signal Co.

J. P. Northey,

President.