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LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER'S CERTIFICATE. *Rev 4/1/77*

The following is a true Account of the Particulars of the Machinery and Boilers:—
of the S.S. "Petrel"

ENGINES.—Here state description of Engines, whether Direct Acting or Geared, Inverted, Horizontal, Diagonal, or Oscillating Cylinders; No. of Cylinders, &c.

*A pair of direct acting Compound surface
Condensing Engines with two cylinders*

ENGINES, maker of *Hall Russell & Co*
 ,, age of *New*
 ,, last time taken out _____
 ,, present condition *Good*
 Diameter of Cylinder *26 1/2" & 4P"*
 Length of stroke *2' 6"*
 No. per minute of Engines *65*
 ,, of Screw *65*
 Estimated power *99 H.P.*
 Effective power *400 H.P.*
 Diameter of Screw (or Paddle Wheels) *12" 4"*
 Pitch of Screw *15" 6"*
 No. of Blades (or Floats) *Four*
 Description of Screw (or Floats) *One screw*
 Holding down Bolts, size *Ample*
 ,, present condition *Good*

Bilge Pumps, No. (*One*) and size *4 1/2" x 2" 6"*
 Feed ,, No. (*One*) and size *4 1/2" x 2" 6"*
 Spare gear, if usual quantity on board Vessel } *Yes*
 Fuel, where stowed *In Bunkers*
 ,, space between Coal Bunkers and Boilers } *Ample*
 ,, for what quantity is space provided *About 100 tons*
 Donkey Engine and Boiler *Yes*
 ,, if fitted in Engine Room or on Deck } *Engine Room*
 ,, can pump be worked by hand *Yes*
 ,, size of pump (*4*) and stroke *10"*
 ,, is hose of sufficient length to reach every part of the Vessel } *Yes*
 No. (*One*) and continuation of hand pumps, if fitted in Engine Room } *Yes*

BOILER.—Here state description of Boiler, and No.; if Tubular, or Flues; No. of Furnaces; if fitted with superheating apparatus; if Fired athwartships, or from fore, or after end of Boiler, &c.

One large cylindrical tubular boiler with three furnaces, large steam chest and fired from after end —

BOILER, maker of *Hall Russell & Co*
 ,, age of *New*
 ,, when last taken out _____
 ,, present condition *Good*
 ,, working pressure *40 lbs*
 No. of surface Blow off Cocks to each Boiler } *One*

Can each Boiler be used separately _____
 What clear space between top of Boiler and woodwork } *No wood work on top of boiler*
 What clear space between Funnel and woodwork } *Ample*
 Are Engine and Boiler Keelsons well connected fore and aft } *Yes*

SCREW SHAFT length *65 feet* diameter *9 inches* Tunnel, thickness of plating *1/4"* height *4 feet*
width *3 feet* if water-tight door on Engine Bulkhead. *Yes*

Port *Aberdeen* *25* day of *Dec* 18*76*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or ~~Wood~~) *new* (or ~~Paddle~~) Steam Vessel *Petrel* belonging to *G.S. & Co* thereof — *Hurst* is Master, Tons Register, and *99* H.P. have been carefully inspected and examined by *us* at *Aberdeen* and *we* found the same, at this date, in good order and safe working condition.

Hall Russell & Co
Lloyd's Register
Marine Engineers.