

from their initial paragraphs. Personalities answer themselves and in the end the old chicken comes home to roost. No end is gained by such a course; and mud is an awkward thing to throw, and it does not carry far. If the *Mining Review* will devote itself to the interests of the country in accordance with its self-stated purpose, and avoid petty and misleading vituperation, it would make a step forward towards the position it so ardently longs to attain.

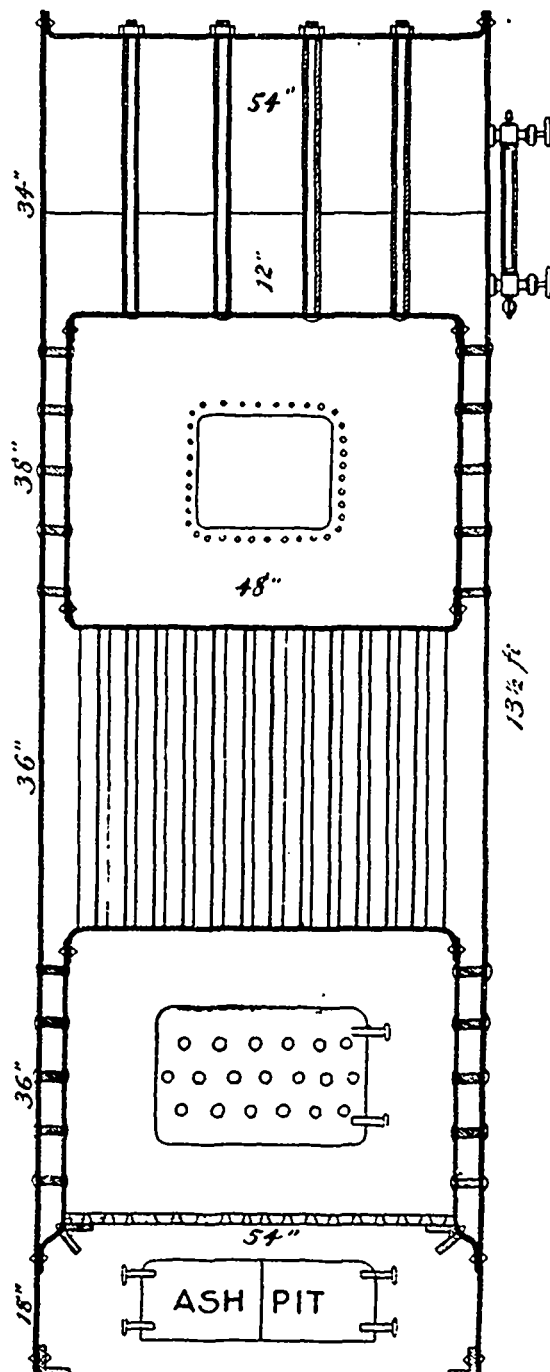
Yours truly,

ALAN SULLIVAN.

Rat Portage, Ont., Feb. 5th, 1897.

GOLDING'S VERTICAL BOILER.

The accompanying sketch illustrates a type of vertical boiler, the design of Wm. Golding, of New Orleans, La., and described by him in a letter as follows: As will be observed, the features of this



boiler consists in the facility with which the tubes may be taken out through the combustion chamber, which is purposely made longer than the tubes. There are two doors to this chamber, one of which will serve as out-take to chimney, and the other to admit access for cleaning and repair, and also to check excessive draft. Since experience has shown that 75 per cent. of the evaporative power of tubes lies in the first foot of length, it is plain that a 2-inch tube need not exceed three feet in length to effect perfect transmission of heat, especially when aided by the combustion chamber.

GOLD has been discovered at Sheep Creek, on the eastern slope of the Rocky Mountains, about 60 miles from Calgary, Alberta.

ONTARIO ESTIMATES.

The following are some of the items in the estimates for 1897 submitted in the Ontario Legislature at the current session:

PUBLIC BUILDINGS.

<i>Asylum for Insane, Toronto—</i>	
General repairs, drains, interior alterations, outside repairs, fire protection, hose, etc.	\$ 4,000
<i>Asylum for Insane, Mimico—</i>	
To complete chapel, assembly hall, store rooms, etc.	6,000
Repairs to iron work and slating of roofs of cottages and centre building	1,000
Engineer's supplies, fittings, etc.	500
<i>Asylum for Insane, London—</i>	
Repairs and renewals to north building	2,500
Interior renewals	1,500
Fire protection, building and hose.....	625
<i>Asylum for Insane, Hamilton—</i>	
New boiler in west boiler house, main building.....	700
Flumbing.....	1,000
To complete infirmary building	10,000
<i>Asylum for Insane, Kingston—</i>	
Addition to east wing, heating, plumbing and lighting....	4 500
Boiler and connection for pumps, carpenter shop, etc.....	750
Fire protection, hose, etc.	300
<i>Asylum for Insane, Brockville—</i>	
Storm sashes	1,200
Main building and cottages for balance of contracts and completing medical superintendent's residence	6,500
Telephone system and time detector (re-vote)	1,000
Material for carpenter, engineer, lumber, tools, etc.....	1,000
<i>Asylum for Idiots, Orillia—</i>	
Renewing and re-arranging steam and water pipes and covering steam pipes	2,500
Construction of drains and of ducts for steam and water pipes from boiler house.....	1,000
Completion of improvements to furnace of boilers and installation of the Frue system of heating and ventilating	9,500
<i>Central Prison, Toronto—</i>	
Conversion of old hospital into two dwellings.....	2,500
Completion of furnishing for new cells and for Warden's residence	1,500
Additions to north shop with enameling ovens	1,000
<i>Reformatory for Boys, Penetanguishene—</i>	
Independent steam heating in the Superintendent's residence.....	300
<i>Deaf and Dumb Institute, Belleville—</i>	
Installing electric light (400 lights)	1,200
Repairs to boilers	250
<i>Blind Institute, Brantford—</i>	
Installing electric light	1,000
Upright piano.....	375
New metal washer	200
<i>Agricultural College, Guelph—</i>	
Water supply—engine, fire pump, shafting, pipes, fittings, etc.....	2,800
Water supply—storage, reservoir and pipe connections for fire protection.....	1,200
Hose, reels, ladders, etc.	500
Rope drive from dairy buildings to dairy barn, shafting, pulleys, ropes, etc.....	250
Fencing	175
<i>Normal and Model Schools, Toronto—</i>	
For balance of contract, cleaning and painting old building, heating, electric wiring and lighting (part re-vote)	6,000
Altering heating old portion of Education Department Building	2 000
<i>Algoma Districts, East and West—</i>	
House for lock-up keeper, Little Current (re-vote).....	1,200
<i>Thunder Bay District—</i>	
Additional vault accommodation to court house (re-vote) ..	600
<i>Nipissing District—</i>	
Heating gaol and court house.....	1,200
Vaults	500
Enlarging court house, Rat Portage	2,000