

Railway Department, Board of Trade  
Whitehall 12<sup>th</sup> September 1861.

Sir. I have the honor to state for the information of the  
Lords of the Committee of Privy Council for Trade that:  
in obedience to your minute of the 7<sup>th</sup> instant, I yesterday  
inspected that portion of the Hereford Section of the  
West-Midland Railway situated between Malvern  
Wells and the junction with the Shrewsbury and Hereford  
Railway at Shelwick near Hereford.

This portion of Railway, 17 miles and  $66\frac{3}{4}$  Chains in length  
is laid single throughout, with sidings at the various stations  
at Colwall, Ledbury, Leominster Road, Stoke Edith and  
Wittonington, also at the junction at Shelwick; but the land has  
been purchased and all the bridges have been completed for  
a double Line (Excepting the guides for under bridges) - The  
Tunnels however have only been constructed for a single  
Line. The gauge is 4<sup>ft</sup> 8<sup>1/2</sup> in. and the space between Lines when  
there are two is 6 feet.

The width of the line at formation Level is 17 feet for the  
single and 30 feet for the double Lines. The rails are  
double-headed and weigh 70 lbs per linear yard in  
lengths of 18 feet and they are fixed in cast iron spars  
which each weigh 20 lbs and are fastened down to

The Secretary of the Board of Trade

Sc.

transverse sleepers of creosoted pine, 9 feet long, partly 10<sup>2</sup> 5<sup>1</sup>  
and partly 9<sup>"</sup> x 4<sup>1</sup>/<sub>2</sub> by 2 twisted iron spikes in each chair.  
The rails are ~~long~~ secured on the inside <sup>of the chairs</sup> by wooden keys.  
The sleepers are placed on an average about 3 feet  
apart.

The Ballast is partly of broken stone and partly of gravel  
and it is stated to be 15 inches deep below the under surface  
of the sleepers -

There are no Level Crossings of Public Roads on the  
Line.

There are 17 over and 17 under Bridges, besides 5  
Viaducts. The Bridges are constructed ~~entirely~~ of Brick  
or Stone or with abutments of those materials and  
Cast or wrought iron Girders. The masonry and  
Brickwork is substantial, ~~and~~ well constructed  
and sufficiently strong - and the iron Girders are  
sufficiently strong by calculation and exhibited  
moderate deflections, with the exception of one <sup>Cast</sup>  
Girder over a small opening of 12 feet, where  
the deflection was unusual. This Girder is to be  
taken out, if no other sufficient cause for the  
deflection observed (14 inch) can be discovered -  
the deflection observed materially diminished

There is a long Viaduct of 372 yards in length  
constructed in Brick. This is an important work  
of considerable magnitude, and there are shorter

and flood-water way  
provided with brick or stone abutments - and wrought- or cast-  
iron sides - the greatest span is 40 feet - the Girder  
exhibited moderate deflection and they are sufficiently  
strong by calculation. The transverse sleepers of one  
of the under bridges is only of 6 inches scantling - the  
weight is distributed by means of longitudinal  
balks, but in my opinion a larger scantling  
would have been desirable -

There are two Tunnels on the Line respectively of 1567,  
and 1375<sup>yards</sup> - the first, the Malvern Tunnel is lined  
~~throughout with~~ brick and stone, but the second the  
Ledbury Tunnel is not entirely lined throughout -  
Both Tunnels are <sup>slip.</sup> on inclines of 1 in 80, and will both  
require to be worked under very careful regulations  
The Line is in fair order, but ~~the~~ <sup>the</sup> points in places  
the packing will require to be attended to. Temporary  
buildings only are erected at the several Stations -  
the mode of working the repeating signals when the  
distant signals cannot be seen from the main signal  
is to be changed, and may be completed in 24 hours.  
If the Ballast Pt. near Witterton Station is again to  
be used, it should previously be the ~~for~~ connection being  
again made to be protected by a Station and two distant  
signals. The fencing round the Platforms is in some  
cases unfinished.

I have not yet received the undertaking as to the mode of  
working the Line, but I understand it is to be done under the  
Train staff and Telegraph system - The Electric Telegraph  
has not yet been put up, but I am told it is to be done  
of the undertaking to of the usual kind, I am of opinion  
that their Lordships' sanction for the opening of the  
Worcester and Kidderminster section of the West Midland  
Railway between Malvern Wells and the junction  
at Shrewsbury may be given provided the Company will  
undertake to <sup>safely</sup> provide Telegraph instruments at the  
stations on each side of the two Tunnels, to devote  
entirely to the working of the traffic through these Tunnels,  
and other Telegraphic instruments at the same places  
for ordinary communications - and to provide station  
and distant signals outwards from the ends of each  
Tunnel so that the signalmen may in the event of  
one signal failing back-hamster means at hand of  
arresting the progress of the trains proceeding towards the Tunnels -  
And until these facilities are provided, that the Company  
will engage to have only one engine <sup>in steam</sup>, or two or more coupled  
together and forming part of one Train between Malvern Wells  
and Shrewsbury Junction at one and the same time -

There is one other subject which I am obliged to raise.  
The junction ~~being~~ of the Newport Shrewsbury and Kidderminster  
section of the West Midland Railway, with the Shrewsbury

Wanton  
copy to be sent to the C.R.  
month thus in the year

and Berford Railway is distant about 1 mile from  
the Company's Station at Barton and  $\frac{3}{4}$  from Barr's  
Court Station - and the Company is <sup>in the daily</sup>  
~~passenger~~  
practiced of shunting or ~~pushing~~<sup>from Barton Station to the Junction</sup> pushing trains  
over this mile of Railway, and then drawing  
them forward to Barr's Court Station - and again  
of drawing them from Barr's Court Station to the  
Junction and then pushing them back to Barton  
Station - This is to avoid uncoupling the engine and  
running round the train. The practice is most  
objectionable and dangerous and was the cause  
of a very serious accident to a Great Northern  
train near The Leeds Station, and in my  
opinion ~~it should~~ should be discontinued.

Yours the honourable, Sir:

Your most obedient servant

P. W.

P. W.  
Col. D. King