

Gas Healey

10. Hornfield Road
Glenop Road
15 Decr. 1872

Dear Dawson,

I was beginning
seriously to convince myself
that you could not have
made the watery passage
successfully but am glad
to find that you are still
right side uppermost.

But you seem to have plumped
headlong into your favorite
pursuits immediately on
your arrival so as to leave
yourself no leisure but now
you are settled I hope we
may maintain a somewhat
periodical correspondence
that is if you are at all
interested in my pursuits
or those of any I know.

I am glad Mr. J's explanation
proved so satisfactory and
easy & you seem to have had
plenty of work to occupy
your time after that.

Scouts help thinking that
the "divining rod" would greatly
assist you in your search
after vein beds. After Price
Marvellous description of its
efficacy would you do not
use it.

For myself I am very happy
in my employment & am
well in the groove & routine
of the work. I think there
by this time what you
would call a fine laboratory
& having no obstacles offered
to any improvements or
additions make myself

as comfortable as possible.
My general routine is from
the samples from all parts
of the world - steels of many
kinds such as axle types
propeller blades etc. to find
out the cause of the production
of "wasters" and the axles
do not stand test.

A great deal of Carbon C₂
test, tests which C element
is often the offender. Sulphur
sometimes proves to be the
cause of fracture & sometimes
too little Mn or too much SiO₂
will combined.

He had a paper ~~with~~ printed
with all his Exhibits + Scheds
with. A most curious affair
he distribute them to his
friends.

I have a great friend at Baker
the County Assessor who, although
I must have deprived him of
a good round salary nevertheless
helps me in any difficulties.

He has long had a very fine
Spectroscope belonging to my
Gov^{rs} which the latter suddenly
sent for so it is now in my
possession much to my delight.

I should like to be able to
detect some of the rare metals

in the steel but I fear from
the number given of Fe
alone that it may prove an
unsatisfactory experiment.
It will be very useful for
examining the flame of the
Siemens-Martin process.

Siemens has been attempting
a new process of reduction
of Fe. straight from the ore but
the process used seems to me to
describe & I think must fail.

The object is to get malleable
iron direct & I fancy they have
2 alternatives - either they will
set mal: Fe. at a low temp
& half the iron will go into the
slag as sil: protex. or they will

These analyses are not easy
for the stuff is generally first
rate & the impurities very
small. . . of S. being a
rarity.

Speeels share large
quantities of + I think
I'm determination the
hundred fall. Many Bk.
Lends, some clay occasionally
sometimes by Pb & Cu ore.
Share a good deal with
with the London Stone of
Naylor Benjamin & they really
work my inside and to get
the reports directly - its their
way of doing all business.

I have had visits from me
ntus of our old friends
Gardner came to me one
day & thought my peace
splendid. I was only
allowed to show him a
small portion of the works
they are exceedingly plain
& stranger. She is now in
the Mining School at Freiberg.
Hendy came upon me day
with a letter of recommendⁿ
from Smith to see what he
could see saw precious
little. I thought it a liberty
& treated him accordingly.

a high temp ^{& a clear day}
be the result ^{cut down into} their defeat
their object -

Dined with Lewis & Benjamin
one night which was a great
happy time. I also went to the
Cutter's. Had a grand feed
given here my first being master
Cutter for the year. I often go
to the Cutter's home like all
the Vickers much but the
fellows in the office are of
serious nature mostly
an unassociable set of cards.
I have few friends ^{to} whom I can
commit my thoughts so you
must excuse my having

filled this letter with trivial
detail concerning myself
but I miss my scientific
friends much.

I went to stay with White
for two days at Normanton
enjoyed it much. I am
going again some day to
the collivies. Their garden
is ornamented with fossils
of the district which would
make your mouth water
to look at.

I should like to have some of
your numbers. I have so many
different kinds to deal with.
My master has a Tin mine

in Cornwall (an old mine) they
have come upon a bed of
nearly pure spathic ore wh.
was left by the old workers as
trash - the tin & Cu are
further down in trace to
light in due time.

Send your Caste next time
write soon -

I am going to London for a
week at times -

Believe me
yours very truly
James W. Huxley.

