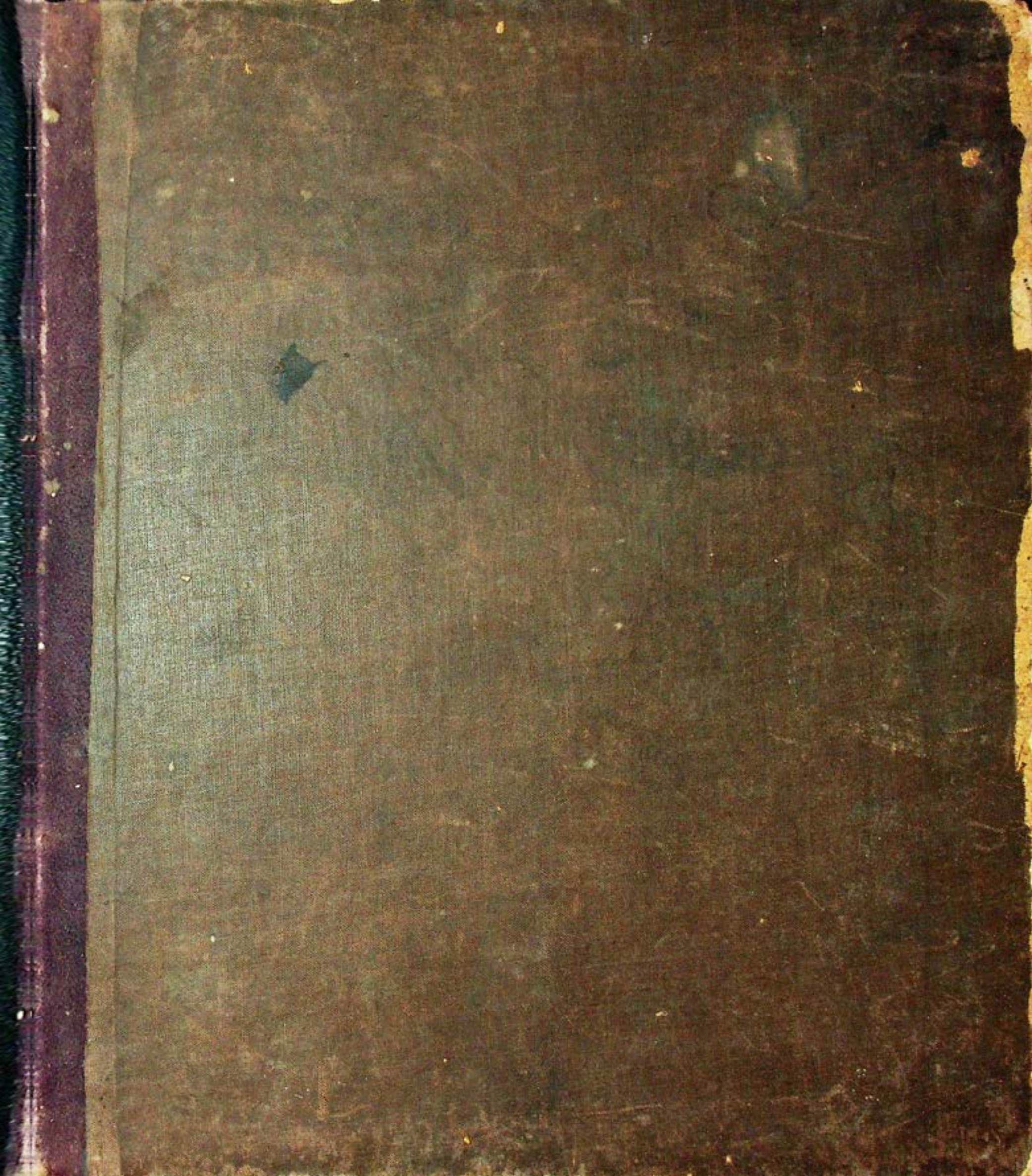




Alexander R S C A 11+12-25-31+32-36-40-43-47

Babcock & Bro- 22-29
Bushill J & R 42

Fergus Robt

45-

Heath S.S.

37

18-12-1870-1871

1871-1872

Kratz & Hilman

6. 9. 16. 23. 27. 28. 35. 39. 46

Ovi Samuel

1. 3. 5. 13. 15. 16. 18. 22. 24. 26. 30. 34. 38. 41. 44. 46

Niles & Co. Cin. 14

Reno John E
Richards Nichl

42

45

Walla Is 13

2. 4. 7. 8. 10. 17. 20. 21. 33

1
Siddie Works N.Y.
16th June 1855

Mr Samuel Cox

Sir

Please send by the first Green
River boat 2000 feet of fence for enclosing 4 1/2 Kegs of
Saltpetre if you can get it & charge the same against
W.A. Alexander
per Paterson

Siddie Works 16th June 1855

Mr Samuel Cox

Sir

Please send one cooking stove like
the one you sent last at \$14 1/2 1500 Molasses & charge to
Mr. Lawrence
per Paterson

Friend Marks II
10th June 1811

Dear Sir

I received your letter of the 21st inst. & also your
enclosure of the 2nd of June. I am very much obliged to you
for it. We have paid all kinds for the month
of June 21st inst. and the balance of the 21st inst. four
hundred & 81/2 dollars. We have also paid several accounts
we have sent as much money left as pay the freight on
the engines which we expect to receive by day we will write
immediately when it arrives & let you know the particulars.

I am anxious to see you & Mr. John Anderson down
on Green River I should be most happy to see you about
the 1st of this month if we could make it convenient. If
you cannot come about that time I wish you could arrange
it so that we could draw the money either in Cincinnati or
Louisville as I have no other person that I can send but Peter
& it takes him some time he can conveniently be wanted when he
comes to your place. As for 5 houses that are being built by
Contract will be finished by the end of this month we will
require as much money as last (\$5000) The main band in
the saw mill came off & fell into the pinions & got smashed up we
have lost about a week by that accident but we expect a new
band now on Monday I am Sir Yr. Servant
N. M. Peterson

27

Airdrie Works Ry
27th June 1855

Mr Samuel Orr

please send by the first opportunity
6 Bags of 8^d nails & 4 Bags of 10^d do
& charge the same against
+ 1 Bbl. Tard oil } R. & Alexander
per Patterson

Airdrie Works Ry
27th June 1855

Mr Samuel Orr

please send by the first opportunity
1/2 Bbl. Molasses & 1/2 Bag of Coffee & charge to
Mr. Torrance
per Patterson

4
Laird's Works N.Y.

30th June 1855

James B. Miller Esq^r

Dear Sir

I received the three thousand dollars
you sent to Cincinnati it arrived the night I did & I got it the next
morning. I had to pay out but did not making the net amt
with what I got from you four thousand nine hundred & ninety
two ¹⁰/₁₀₀ dollars

The rains which fell on Thursday the 21st Inst had so
much softened the fire clay under a large block of rock which
lay about 50 feet back from the top of the quarry that it
slid forward & came down upon the enginehouse doing considerable
damage. However the loss is small compared with what it would
have been if it had happened six months after this. The block was
about 40 feet long 25 wide 14 1/2 thick & must have weighed 3000
hundred tons. It will have it pretty much cleared out next
week. it will retard our progress for a short time but the cost
of repairing will be much smaller than was at first anticipated

Both shafts & every thing else are getting along first rate
We are making up the Row list just now we will write
you when the engine gets here which we expect to be about
the end of next week as I saw Capt Combs started before I
left Louisville

I am Dear Sir

Yours Obed^t Serv^t

pro W. Lawrence
R. M. P

Airdrie Works Ry
7th July 1855

Mr Samuel Orr

Please send by the first opportunity

- 4 Kegs shingle nails
- 1/2 Pig Lead
- 1/2 Box window Glass 10 X 16 Lights
- 1 Box " " 10 X 14 "
- a quantity of putty & 2 Kegs of Pure white Lead
- 1 doz 4 in tenths & 2 Gross 1 1/2 in gimlet screws
- & charge the same against

H A Alexander
per Paterson

Mr Orr

- please send 1/2 Dbl Sugar
- 1/3 - Molasses
- 1/2 sack Coffee
- 1 Box Soap
- 1 " Star Can also
- Small Box Tea &
- 1 Copping Stove at £ 14

& charge to the acc of
Hm Torrance
per Paterson

Lidia Works - R.
9th July 1855

My dear Sister Milman

Please send by the first opportunity
1 doz of beigns dust & 5 doz. No 7 Best Cloth
5 " " 8 " "
3 " Best Muslin

You will find forty dollars enclosed which will pay for
the cloth whatever is over credit to my account

R. A. Alexander
per Peterson

Nichols & Co. - St. Louis
7th July 1855

J. B. W. L. Esq.

Dear Sir

We have paid off all hands for the month ending 30th June the pay list for that month amount to (\$3553.71) three thousand five hundred & fifty three dollars & seventy one cents. I paid Kratz & Heilmann 10 a/c \$200 Samuel Cox 10 a/c 200 & \$83 for 1800 lbs & 100 lbs I paid also Mr. Ward's a/c of \$65 besides \$500 to a/c of houses that are being built by contract & a good many smaller a/c's

In balancing up the money matters I was not very certain about the sum on the \$2000 I got from you in Lexington please state in your next the amt so that there may be no misunderstanding. If you pay the barge & freight on the Blowing Engine I think we can get along with \$5000 again at the 1st of Augt - which please send to Owensboro a few days before that time so that we may get it here by pay day. No 1 shaft is down 1 1/4 feet we are now within 30 feet of the ore which we expect to reach about the 1st of Augt - we are driving the tunnel through the hill from both ends & on one end a double shift we have got 330 yds to drive - the rock is nearly all cleared out from the Engine - house & we will be ready to go ahead with the building next week - The White River has not yet arrived with the engine but we expect her every hour

I am Sir yours &c Wm Lawrence

2
Kirdrie Works - N.

9th July 1855

J. B. Waller Esq^r

Sir

Inclosed you will find a letter from
Ricketts of Greenville to E. V. Nisley with regard to that land
claimed by E. Smith. The letter itself gives you the particulars.
Capt. Briggs has arrived with the engine all safe
& in good order he arrived here about noon today & we have
commenced this evening to unload.

I had a letter from Mr. Alexander last week he
is particularly anxious to get a head with the works on Green
River & we will make every exertion to comply with his wishes.
I intend to write him by next mail.

I wrote a letter to you on Saturday last which I
hope you will receive in due time.

I am

Sir

Your Obed^t Serv^t
Wm. Foran
per Patterson

3
Audrie Works Ky

11th July 1853

Messrs Krasz & Heilman

Receive with this a broken
Plumber Block. we want 2 off the same pattern & one
Cover, we want them immediately as we cannot run the
saw mill till we get them
I am

Gentlemen

Yours respectfully

R. B. Alexander

per Paterson

Sardinia Works &c
16th July 1855

A B Waller Esq^r

Dear Sir

We have now got the rock cleared out of the Enginehouse & will be ready to commence building again to-morrow

We have got the coal in the shaft represented in the journal as being one foot thick it stands two feet two inches & is of a good quality. According to the journal we are now within eight feet of the coal above the Ironstone which we intend to reach this week

We have got the Clay mill set in operation & it works well we are making a quantity of brick of different quantities of clay to find out which is the best we will have them ready for firing this evening

We have got seven dwelling houses finished and tenanted & other seven are nearly ready

Mr. Anderson of the Bank of Montreal told me the last time I was there that he could negotiate with you to supply us with money at the same rate as in Louisville. If that can be done it will be the most convenient way of getting money to this place

I am

Your Obedt Serv^t

J^m Wm Lawrence
A B W

Sird's Works - N.Y.
16th July 1855

M. & C. W. Mendenhall

Sir

I have received your letter of the 11th inst. enclosing a draft of brick & in reply to inform you that we have got the clay mill in operation and it works well we have made a quantity of bricks of the various qualities & compounds of fire clay, we will be ready to give this kiln this evening, & will be prepared to report in the course of next week. I expect we will write next week as we have got the coal in the shaft represented in the journal as being one foot thick; in the shaft it stands two feet two inches and is of a good quality. We have now got (according to the journal) within eight feet of the coal above the Ironstone which we intend to reach this week. There have been double shifts on for the last two months.

On the 21st of June several large rocks which were embedded in the fire clay on the bank some distance back from the top of the quarry slid forward in consequence of the heavy rains which fell out about that time & one weighing several hundred tons fell right into the Enginehouse smothering up the building a good deal. But we have got it all cleared out and ready to go to building again. It has retarded our progress considerably, but we had no idea of the rocks coming down but the wet fire clay acted like soap and slid them forward some 40 or 50 feet. One of the rocks measured 40 feet in length by 25 wide & 8 thick.

We have got the blowing Engine round from Cincinnati we bought a Barge in Louisville & had it towed round, we have it all landed safe on the top of the bank & we are now using the Barge for a Coal dock.

We have got seven houses finished & tenanted & seven more are nearly ready we are now building the houses all by Contract we have four Companies of ~~Contractors~~ ~~Contractors~~ I hope being getting my own house built by Contract also it will be finished in two or three weeks.

We had the Circular saw in operation some time ago but we found that we could not make it profitable so we give it up. We are putting up a bolt for flour we will be ready to make flour next week. We are running the perpendicular saw night & day we are cutting from 5 to 6 Thousand in the 24 hours.

We had 149 hands employed last month (June) The pay list amounted to \$3553.71 Besides Carpenters and Brickmakers working by Contract.

The fire is becoming a little troublesome in the pit. I wish you would send out 7 doz Davy lamps with the first men that come out here which I hope will be the brick makers as it is their services that want most at present.

There will be no trouble in getting as many miners as you want here.

I am Sir

Your Obedt Servt
Jas W. Evans
R. H. B.

Airdrie Works - N.Y.

16th July 1855

Mr. Samuel Orr

Please send per S.D. White River
1 Cooking stove at \$14

3 $\frac{1}{2}$ Bbls Sugar

$\frac{1}{2}$ - Molasses

Delivered to
William Sarrance

per Patterson

P.S. Mrs R Snedden bought some cloth in a shop on
Main St left hand side going up, she expected to get it up first
with that Madonna but she not coming up, sent David out to
an overland route & left the box at the shop where purchased
with instructions to have it sent on the first Cape River Boat
But it has never been sent & we do not know the address of
the firm, we would take it kindly if you would call at your own
convenience and enquire if they have sent away the box it is
addressed to Robert Snedden Airdrie Works Exon Street
The establishment where it was purchased is the first Quaker
Shop on the left hand as you go up Main St

I am

Dear Sir

Yours respectfully
Wm Sarrance

R. L. P

Sirrio Works & Co

10th Street

Williamstown

Messrs Viles & Co
Cin. Ohio

Gentlemen

We have received every part
of the Blowing Engine all safe except the cracker for
the boiler. I have seen nothing of them. please to write
stating whether or not they have been shipped for I am anxious
to know why they have not been received

I am

Gentlemen

Yours respectfully
for Wm. Viles & Co

R. M. Peterson

Airdrie Works Ry
16th July 1855

Mr. Samuel Orr

Please send by S.S. White River
10 Kegs Blasting powder
2000 feet fuse

4 Bars 1 1/4 round Iron

I charge the same to

R. A. Alexander

per Paterson

Airdrie Works

17th July 1855

Mr. Samuel Orr
Sir

I have returned per S.S. White River
two pots which you sent with the stove you shipped on the 10th
Just they are too large you must have made a mistake please
send smaller ones to fit the stove I expect you have the net
Send also another stove, I charge to

William Gourance

per Paterson

Airline Works - Ky.
Messrs Krazy & Weilman
Gentlemen
21st July 1855

I sent you forty dollars
on the 9th Inst to purchase some Bolt cloth but I have
not heard whether you rec^d the order or not as you have
neither sent the cloth nor acknowledged the receipt of the money
please send on the cloth as soon as possible & let us know
if you have rec^d the \$40

I am
Gentlemen

Yours respectfully
for the firm
J. A. Alexander

Airline Works - Ky.
Mr Samuel Orr
27th July 1855

please send by the S B White River
4 Kegs 10 Nails & 4 Kegs 8^d do & 4 Kegs 6^d do
3 - White Lead 1 Box Glass 10 x 14 Lights
& 1 Box 10 x 16 & charge the same against
J. A. Alexander
per Peterson

Airrie Works & Co
28th July 1855

J B Waller Esq^r

We have just rec^d from Lawry & Co a note stating that they have sent five thousand dollars to the Bank in Owensboro to my credit which will defray the expenses of this month

We have not yet reached the Ironstone in the shaft it is considerably deeper than at the point where the bore was put down however there is every indication of a near approach to it in the shaft at the present time we will write you as soon as we get to it

We have got a good article of fire Brick we tried five different qualities But the best is that which lies under the lower vein of coal we will commence immediately to make the Arch Brick for the furnace

The Engine House has all been cleared out and we are now getting a-head with the building again, The damage was not so great as was at first anticipated

In the mean time

I am

Dear Sir

Your Obed^t Serv^t
Wm Lawrence
per Putnam

— Andrew Weeks, Jr.
28th July 1855

— Mr Samuel Orr.

— please send by the first opportunity

4 Reqs 10⁰ Nails

4 " 8⁰ —

4 " 6⁰ —

2 — Pure White Lead

1 Box Glass 10 X 14 Lights

1 " " 10 X 16 "

& charge the same against

R A Alexander

per Peterson

— Messrs Orr & Co

— please send by the first opportunity

1/2 Bbl Sugar

1/2 Bag Coffee

1 Box Soap

1 Bbl Mackerel all of the best quality

& charge to

— Jm Torrance

per Peterson

Airdrie Works

4th Aug 1855

J B Waller Esq

Sir

I draw from the bank in
 Ovens a five pound note minus twelve &
 50cts discount And have paid off all hands
 for the month of July

We have got back the coal but below the 12 inch
 coal of the journal whereas by the journals we should
 have got (at 9 feet 2 in) a coal 2 feet thick then 1 foot
 of fine blue then the ore there is very little change
 in the appearance of the metals since we passed
 the short coal but we have got so far past it
 without seeing to say change that I am getting
 a little uneasy about it and would like to see
 you & Mr. L. to consult you upon the subject
 for that purpose I will leave Green River on
 Tuesday & Wednesday & come up to John's place
 in Woodford if you could make it convenient to
 meet me there I should be glad as I want to be as
 short away from the works as possible

I am Sir

Yours Obedt Servt

John McTear

Airdrie Works
14th Aug 1855

J B Waller Esq
Sir

I drew from the Bank in
Owensboro five thousand dollars minus twelve &
50^{cts} discount. And have paid off all hands
for the month of July.

We have got twenty three feet below the 12 inch
Coal of the journal whereas by the journals we should
have got (at 9 feet 2 in) a coal 2 feet thick then 1 foot
of fire clay then the ore there is very little change
in the appearance of the metals since we passed
the 1 foot ore but we have got so far past it
without coming to any change that I am getting
a little uneasy about it and would like to see
you & Mr John to consult you upon the subject
& for that purpose I will leave Green River on
Tuesday & Wednesday & come up to John's place
in Woodford if you could make it convenient to
meet me there I should be glad as I want to be as
short away from the works as possible.

I am Sir

Yours Obedt Servt
Jas W Lawrence
(C. W. P.)

Sirrie Works - Ky
18th August 1855

James B Walker Esq^r

Dear Sir

I went up to Mr. John Alexander^{Esq} as I proposed in my last letter to you. It being there informed that Mr. Alexander had arrived in N. York on his way home. On that account I did not think it necessary to come up to see you as it was expected that Mr. Alexander would be able in a few days to visit his works on Green River in person which I hope will be the case.

I left with John all the information that I could furnish regarding the state of the works here.

I have not yet given you any statement of our expenditure for the month ending 31st July. The pay List for that month amounted to \$3416.49 We paid to Contractors for making brick & building Houses \$800 We cleared off Orr's a/c of Iron nails sash glass powder &c which was \$576.30 We paid the balance of Kratz & Heilmann's a/c of Castings which was \$300.70 besides a variety of smaller a/c's.

If Mr. Alexander cannot make it convenient to come down about the end of the month I hope you will send some money \$5000 will about clear us off at the end of this month.
In the mean time

Yours Obed^t Serv^t
Wm. Lorrance
per Paterson

Airdrie Works - N.
 Messrs Bobcock & Co 30th Sept 1855

Gentlemen

please send by the first
 opportunity 81 feet of Gum belt 14 in wide & a quantity
 of Copper rivets & a Carpenter's bench screw & I will
 be down in the course of two or three weeks and settl. with you
 per Mr. Torrance

R M Paterson

Airdrie Works 20th Aug 1855
 Mr Samuel Orr

please send per S B White River
 2 Kegs 10 nails

2 - 8th -

2 - 6th -

& a quantity of Cotton for Mires Lamp works
 & charge the same against

A A Alexander

per Paterson

Airrie Works - Ky
 20th Augt 1855
 Messrs Kratz & Heilmann

Gentlemen

Please send by the St.
 White River the two pieces off the pattern
 that I left when I was last in Evansville & Ohio

Yours respectfully
 for Wm. Lawrence
 R. M. Patterson

Airdrie Works
22nd Augt 1855

Mr Samuel Orr

Please send by the first oppor-
-tunity,
2 kegs 10th rails
2 " 8th "
2 " 6th "
4 Boxes Glass 8x10 Lights
6 Bars 1in Round Iron
18 Feet 3/4 in Chain
100 envelopes similar to the one over this
also a quantity of Cotton for Miners Lamp wicks
Charge to R A Alexander
Per Paterson.

Mr Davidson

Sir

In balancing Mr Orr's a/c I
found there was a small difference between the
amt, & the amt of the Bill you furnished to Lorrance
it was in your Bill of M^{rs} dated June 7 that in
the aggregate given to Lorrance was \$384.14 whereas
the original Bill was \$374.89 Causing an error of
\$9.25 The amt Credit on our Ledger at the time
of settlement was \$776.30, By looking over you
may see the mistake
I am Sir & R M Paterson

Airdrie Works - Ky
30th Aug 1855

R. S. C. Atkinson - Alexander Esq^r
Glasgow

On Saturday last I
rec^d yours dated Woodburn 15th Inst & the day
following I rec^d yours of the 11th from Pittsburgh
we were happy to hear that you had again arrived
on this side the Atlantic in safety.

I was in Woodford the day before you
arrived - I should have been glad to have written if
I had thought you would be home so soon. It is well
I know all about how matters stand with regard to
your works on Green River which I have no doubt he
has communicated to you it is therefore unnecessary here
to repeat any of the details.

The Engine at the shaft is all ready except
the fire shaft. The pit head frame is up & the rope
arrives per S. B. White River yesterday we expect to
have all ready for operations about the middle of next
week. The house for blowing Engine is raised about
11 feet and we are progressing favourably with it & Mr
thinks about the end of Sept. he will have the furnace
& the furnace cleared out if the weather be favourable.

I hope you will make convenient to come down as early
as possible for I am very anxious to see you.

I am Sir yours &c for Wm. Lawrence
a m

Ardrie Works 31st Augt 1855
 Mr. Samuel Orr

Green River please send by the first boat up
 1 Bbl. Lard Oil
 10 Kgs. of Powder
 4 Bars of Round Iron best,
 2 " 2 X $\frac{3}{4}$ Hat - -

& Charge the same against

R. A. Alexander
 per Patterson

Mr. Orr

Dear Sir

When Mr. Alexander was in Europe
 he shipped some boxes addressed to this place to your
 care if they should arrive please pay the freight
 on them & we will settle with you when we come down

Send 2 Small Boxes Tea

& 1 Box Candies

& charge to

Appl. Donnan

per Patterson

Airdrie Works Hy

8th Sept 1852

Wm^{rs} Kratz & Heilman
Gentlemen

I want you to send 2 wheels of the same pattern as I got before 3 feet 4 or 8 inches diameter & 2 pinions of the same pitch 6 in diameter if you have not got them cast I want you when you cast the pinion to make the hole $1\frac{1}{8}$ inch round & one of the wheels to have the hole $2\frac{1}{4}$ in ~~sq~~ the other to be $1\frac{1}{2}$ in round & bored out. If you have them cast I will take them whatever the size of the holes may be as I am in immediate want of them.

I have shipped per S B White River three pinions which are no use, the last time I was down I brought you the pattern for the pinions about 5 in diameter & about 3 in thick.

I am
Gentlemen.

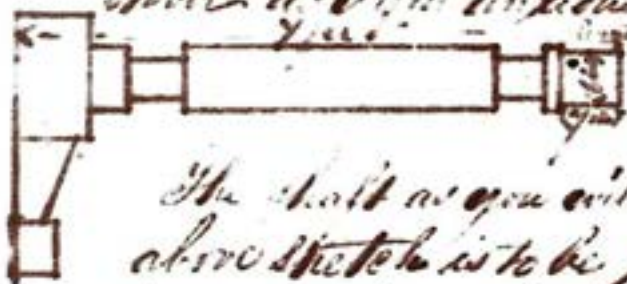
Yours Respectfully
Jas W^m Lawrence
R M S

Sir John Lewis
15th Sept 1855

My dear Sir,
I am

When you will find
the sketch of steam pipe & the length of the main
shaft of the engine that you are building for us
we want to work with an eccentric instead of a crank

If you have got the iron for the furnace jacket
you may commence making it as soon as convenient
The diameter is 20 feet 4 inches & the depth
29 feet. I have sent over the first brick the
first of the iron anxious to hear



The shaft as you will observe by the
above sketch is to be 7 feet long the
outer end where the spindle goes on
is to be round & turned to 6 in & 7 in long

The steam pipe is for the mill engine one of
the knees of the copper pipe having given out please
to send it as soon as possible & oblige

Yours

Very Respectfully
Jno W. Torrance
Ralph

Virnie Works, N.Y.
15th Sept 1885

Wm. Babcock Esq.
Cincinnati

Enclosed you will
find one hundred dollars (\$100) which please place
to my Credit & the balance \$100 I will pay when I come
down. Please acknowledge the receipt of the above

Yours

Very Respectfully

Wm. J. Babcock

Hill Station

Sir John Hanks R

12th Sept 1850

W. Seville

1/2 lb each per 1. 3 1/2 lb 1 lb
 1 lb each 3 1/2 lb X 6 10 lb
 3 " " 3 " X 6 10 lb
 8 " " 3 " X 6 10

1/2 lb each 12 1/2 lb 10 X 16

1/2 lb each 12 1/2 lb X 1/2

1/2 lb each 12 1/2 lb X 1/2

Charge to

A. Alexander
 per Peterman

W. Seville

1/2 lb each 12 1/2 lb X 1/2

1/2 lb each 12 1/2 lb X 1/2

2 1/2 lb each 12 1/2 lb X 1/2

2 1/2 lb each 12 1/2 lb X 1/2

20 lb each 12 1/2 lb X 1/2

1/2 Bbl Molasses

1 Box Tea (Small box)

200 lb Hams & Charge against

Wm. Lawrence

per Peterman

for him some at the end of this month: We received
 \$4996.25 from the bank of Cansboro sent by Mr. Waller
 which I have acknowledged to him by this mail. I will either
 come up or send up Will Putnam for money to clear off this
 month it will prevent any disappointment in sending of it.
 we do not know how much we will require but it will probably
 be about the same as the 4 or last months \$5000. There may
 be some of us up by the 1st of Nov next trip which will be some
 time next week.

In the mean time

I am

Yours Obedt Servt
 for Mr. Lawrence
 R. L. P.

Andru Works R.
17th Sept 1838

James B. Waller Esq.
Wm

We received your letter of the 1st Sept
informing us of your intention to send to Remond
1000 lb of gunpowder. I received your letter and in substance
kindly said "yes" (14th 96th)

I have written to Mr. Alexander informing him
of our progress with the works. He also about the supply
of money for next day which we will send off in order
to avoid trouble & disappointment.

Our prospects of finding ore in the shaft
are a little bright. However we do not wish to say
much at present as we have no more certain data to
found our intentions upon, we will write Mr. Vignier
as soon as we have any good news to transmit.

I hope to see you & Mr. Alexander here soon
I remain

Yours Obd^t Serv^t
J. B. Waller
11.10.18

Andrieu Works 1st Oct. 1855

— Mr Samuel Orr

Please send 2 Boxes of Glass 16x10

4 Boxes do 8x10

1 Kegs 8^d Nails

2 — 6^d —

4 — 10^d —

2 — 4^d —

3 doz door catches

& charge against

R. A. Alexander

per Peterson

— Mr Orr

You will receive with this a parcel containing five hundred & ninety five dollars which clears the balance of your life & also the balance of Orr & Delzell's acc except the small change please to acknowledge the receipt of this which I have sent by the J.B. W. A. Enves.

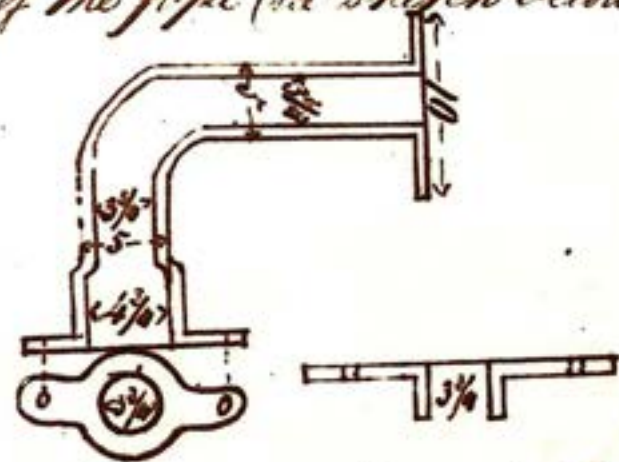
Yours respectfully
R. A. Peterson

Airdrie Works & Co

1st Oct. 1855

My dear Sir,
Glasgow

You must have misunderstood me with regard to the knee pipe ordered on the 15th ult. you have sent a copper pipe whereas we wanted a cast iron one by referring to the sketch sent at the above date you will see that the metal is to be 3/4" thick which could not be with a copper pipe. I want it for an expansion joint the copper pipe working into the flange of the pipe we want you to cast we made a mistake in the sketch with regard to the flange on the joint end of the pipe (see sketch below)



We have returned the copper pipe & wish you to send on the cast iron one as soon as possible

Please send 1 1/2 doz grates like them we got before I oblige

Yours very respectfully
Geo Wm Lawrence
Rolls

Airdrie Works K.

6th Oct^r 1855

N.S.C.A. Alexander Esq^r
Dr Sir

Yesterday Mr. Francis started for Evansville per S.D. James Paul for the purpose of hiring some stone masons-if they can be got, as most all the hands in that department here are sick. On leaving, he directed me to write you with regard to the progress of the bore in the shaft &c. In compliance with his instructions I subjoin a continuation of the journal part of which Mr. F. transmitted to you in his last letter. In addition to the feet 49.11 there do -tailed they have passed through

| | |
|-------------------------------|-----------|
| Sandy Blare Cont ^r | 13. 3 1/2 |
| Lakes | 2. 9 1/2 |
| Sandy Blare | 2. 1 1/2 |
| Lakes | 2. 11 |
| Blare | 8. 6 |

Total depth Feet 49. 5 1/2

There is at present a great deal of sickness amongst the hands. McLaughlan & his whole family have had ague & McConnell that came down with McLean has been sick for nearly a month of the same. The Engine house is progressing slowly from the cause above stated. The Carpenter who has the contract for building the Store house has been sick & most all his hands. in consequence of which that job is for the present nearly at a stand still, however the weather has now become cool & we expect a more healthy time I am Sir. Yours obed^t Serv^t N. M. Paterson

Andrius Works N^y 5th Oct 1855

Mr. West

W. J.

I went to the mill & ascertained the length of the mill
saws the one is 7 feet & the other 7 1/2 feet long you may bring 2 or 3
of each. In the kind of Casp. this looks we omit the saws you may
bring on a few other, a few steel circles & a few metal legs. There
will be a good many hunting stores as there is one room in each
house that we have built without a chimney. Two doz or more I have no
doubt can be sold in the course of the winter. Every time I go to Louisville
I have orders from some of the hunters here to bring watches for them. If you
see fit to bring on a few of them they can soon be disposed of. Hunting
watches (with cases over the glass) at about \$10 or \$12 are most in demand
Jewelry of a cheap class will sell very well here. We use a great deal of
window sash 1st Light windows 8x10 & glass 8x10 we use as much as
2 doz windows per month. Nails 4th 6th 8th & 10th nails 1 doz bags of each
will soon be used & a few 1/2 doz mills will be required. You will require
a general assortment of stationery Paper pens ink & school books and
if a taste for general reading could be excited amongst the hands it would
be a very good thing. If therefore you think of making a selection of books
for general reading I should suppose they would sell. In making out the
list we did not think of tin ware & water buckets, buckets of various kinds
will also be wanted, we get Barley Rice & cheese which Old Country
folks are fond of. I do not wish to be understood as dictating a list
you are so long as I have merely sent these few lines to assist you in thinking
of such things as will probably be required. You may comply or reject them
as you see cause. I am & Sir Yours very respectfully
R. H. Patterson

Airdrie Works 27th Oct 1855

Mr. Samuel Cox

Gent

I have just now learned from Mr. Torrance
that Mr. Alexander's order of the 1st Oct: you have not rec^d
or hope you will send the articles therein specified by the first opp-
-portunity they were as follows viz 2 Nags Glass 10 x 16 Lyle

1 - - - 7 x 10 -

4 Nags 7 Nails

2 - 6 -

4 - 10 -

2 - 4 -

There was also 30th glass catches but Mr. Torrance has
brought them

Yours
Sir

Yours Respectful
Jas. A. Alexander
Bell & Brown

NB Send also 1 Bbl Tallow

Ardrie Wates. W.
9th October 1855

Miss Mary Williamson
Gentlemen

Please send by the first Green
River Boat 10th wheel about 21 inches diameter the same
as shown I got from you before
Obliged

Yours Respectfully
Jm W. Wates
R. & P.

Airdrie Works Ky 13th Oct 1855
 R. S. C. A. Alexander Esq^r
 Sir

I returned from Evansville on Monday last, I brought on two stonemasons—very good hands which will enable us to push on the Engine house a little quicker.

Our prospects in the shaft are no better. You have a copy of the journal to the Depth of Feet 80 - $5\frac{1}{2}$ to which we add

| | |
|-----------------|---------------------------|
| Hard Flaky Rock | . 0 - 10 |
| Blaze | . 17 - 11 |
| Black Slate | . 3 - $4\frac{3}{4}$ |
| Blaze | . 3 - 11 |
| Flaky Rock | . 1 - 10 |
| | Feet 106 - $3\frac{3}{4}$ |

Unless we meet the object of investigation we will go a-head with the bore until you come down which I hope will be as soon as possible. And as R. M. Paterson informed me that you proposed coming down about the 25th of this month we will not write you any more till we hear from you or see you.

J. N. Mann the Contractor for the Storehouse is now going a head as rapidly as possible, the plasterers will get to work by the middle of next week so that I think it will be ready to receive goods early in Nov^r.
 Hoping to see you here shortly

I remain

your Obed^t serv^t
 J. W. Torrance
 N. W. T.

41

Mr Samuel Orr Airdrie Works 13th Oct 1855

please send by the S.D. Jas Paul
30 Bbls of white Lime & charge the same against
R.S. Co. Alexander
per Paterson

Mr Robert Fergus Airdrie Works 13th Oct 1855

please send per S.D. James Paul
3 High Packed Corn Redheads & I will call & settle
with you the first time I am in Evanville
Yours Respectfully per Wm. Paterson
R. W. Paterson

Major Robert Wm. Airdrie Works 13th Oct 1855

please send by the S.D. James Paul
1/2 doz door Locks the very best & strongest that you have
as they are for the outside doors of a Store send also 1/2 doz
of a smaller kind for the inside doors & charge the same to
R.S. Co. Alexander
per Paterson

Airdrie Works 16th Oct 1855
 Mr John E. Reno

Please send by the S.D. James Paul
 eight or ten thousand shingles & oblige

Yours Respectfully
 for W^m Torrance
 R. M. Peterson

Airdrie Works 16 Oct 1855
 Messrs J & R Buckill

I sent you notice the the structures
 would be ready to plaster by about Thursday but as the
 floors are not yet laid down you may as well not come
 before Monday but I hope you will be sure to be there
 as we are now in a hurry with that job

I am
 Gentlemen

Yours Respectfully
 for W^m Torrance
 R. M. P

47

Airdrie Works 24th Oct 1855

R. S. C. A. Alexander Esq^r

D^r Sir

I was sorry to hear through Mr Lorrance that Mr Heath had misunderstood me with regard to the time that we expected the Store house to be ready. I cannot conceive how the mistake could have been made unless it was while visiting the quarry if I mistake not he there asked me when I supposed the house would be finished to which I replied about Christmas. Thinking he referred to the Engine House. But Mr Lorrance wrote you on the 13th Inst with respect to the progress of the Store &c which would correct your ideas on this point & I may add that the Contractor is now prosecuting the work with more energy than even at that time. The roof will be finished this week and the plasterers will be ready to go to work by Monday so that we expect in the course of three weeks from this date the house will be in a state to receive goods.

In the shaft they have struck a hard kingle rock in which they cannot bore more than from 4 to 6 inches per shift. Nothing new since Mr Lorrance wrote.

I am

D^r Sir your Obed^t Serv^t

R. A. Paterson

Airline Works & Co
20th Oct 1855

Mr Samuel Orr
Sir. please send by the first Green
River Boat 1200 Lard Oil
1 - Linseed -
1/2 doz Kegs Pure white Lead
200 feet of Corn Iron 1/4 thick by 3 or 3 1/2 in wide
1 Bar of 1 1/4 in 8 1/2 - Cast Steel
& charge the same against

R S C A Alexander
per Patterson

Messrs Orr Dalziel & Co
Please send by the first
opportunity a straw cutter like what Mr. Lawrence for
specie of when he was in Evansville at about \$19.00
& charge to
Wm Lawrence
per Patterson

Airdrie Works &c

30th Octbr 1855

Mr Nicholas Richards

Sir I received the note you addressed to Mr Alexander about coming here to work but your figure is a little too high for the short days of winter & therefore we cannot make the terms to suit, With regard to the furnishing of Oxen & quarrying we have more of them than we have work for

I am Sir

Yours Respectfully
Wm. Torrance

Airdrie Works &c

20th Octr 1855

Mr Robert Fergus

Sir please send by the first Green River Boat another Redhead like them you sent last and also a Bill of the whole ^{as} they are for the workmen we want to know how to charge them

Yours Respectfully
Wm. Torrance
R. M. Paterson

Ardrie Works 31st Oct 1855

Messrs Krasz & Hilman

Please send by the first Green
River Boat 2 doz Coal grates like those you sent
before & charge the same against

R. A. Alexander
per Peterson

Ardrie Works 30th Oct 1855

M. Samuel Orr

Please send by the first opportunity
6 Kegs of Blasting powder & charge to

R. A. Alexander
per Peterson

47

Airdrie Works 9th Nov 1855

R. S. C. A. Alexander Esq^r Sir

I expected to have seen you down on Green River before this time I am now almost as a stand I do not know what to do, there is but little hope of obtaining ore in the shaft as you will perceive from the following Journal in addition to the feet 106-3 $\frac{1}{2}$ before detailed they have passed through

They have struck Blase again but the prospect for finding ore is no better than ever! So I want to know what is to be done whether you want to commence getting ore at another point or what is to be done If you do not find it convenient to come down on the night I Boat please to write by return of mail and I will come up the next trip & see you in order to consult with you as to the best mode of proceeding

| | |
|----------------|--------------------------|
| Slaty Rock | 3-2 |
| Sand | 4-1 $\frac{1}{2}$ |
| Hard | 14-8 $\frac{3}{4}$ |
| Sandy Blase | 7-1 |
| Coal | 0-3 |
| Fire Clay | 6-10 |
| Hard sand Rock | 11-2 |
| | Feet 153-8 $\frac{1}{2}$ |

We have got the beams upon which the Blowing Cylinders are to stand put to their places & are intent raising the Cylinders next week, We are putting the shelves in the Store it will be ready next week I am Sir Yours Respectfully
H. L. L. L.

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Airdrie Works &
15th Nov 1855

Mr Samuel Orr

Please send per S D St Paul

1 Keg Putty

1 Reel Rope yarn

1 Keg 4th nails

& charge the same against

A S C A Alexander

per Paterson

Cancel

Airdrie Works

32nd November 1855

Mr Samuel Orr

Please send by S. B. H. Bridges

1 Bbl Lard Oil
 10 lb of 10 Horse shoe nails
 10 - 9 - - - -
 1 Keg of Putty
 1 Reel of Rope yarn

& charge the same against
 R S C A Alexander
 per Paterson

Messrs Orr & Dalziel

Please send per S. B. H. Bridges

1 Cheese
 1 Box Candle & charge to
 Wm Torrance

Airdrie Works
 April 25th 1857

Airdrie Works Green River
 Muhlenburg County
 Kentucky

April 25th
 1857

Airdrie Works N.

27th November 1855Mr. S. S. Heath
Sir

I am directed by Mr. Alexander to write you with reference to what goods are likely to be wanted here. You have sent on a quantity of stores but no butter stove pipe has come it might be well to bring on a larger quantity than will be required for the stores on hand as stove pipe is sometimes wanted to replace others that have been burned out. There are several parties depending upon you to bring on furniture for sitting up house keeping, beds chairs tables &c. Some of the brick masons have been asking me if you were bringing on any trowels it might be well to bring on two or three of them different sizes, you may also bring on a pretty good supply of Carpenters tools. There are several articles in the grocery line such as cheese & barley for which there will be considerable demand. You may bring on some more safty fuel as what you sent on will probably be used up before you get here. It will be necessary to have as great a variety of articles as possible.

The Store house has been finished for some time and your own house will be finished this week. But you will probably see Mr. Alexander who will let you know how matters stand in that respect.

I am Sir

Yours Respectfully
R. M. Anderson

Airdrie Works 30th Dec 1855

Mr Samuel Carr

Please send per St. H. Bridges
6 Hogs Blasting powder
& a quantity of Miners lamps with
to charge the same against
R. S. C. & Alexander
per Patterson

Airdrie Works Dec 20th 1855

Messrs Messrs H. & J. H. H. H.
Customers

Please make 2 fulls off
the same pattern as one cast Herdman's in fulls off and
send them on as soon as possible. Send by the St. H. Bridges
one Hogs of Blasting dust for making joints & charge to
R. S. C. & Alexander
per Patterson

Airdrie Works 20th Dec 1853

Mrs Ponda & Morris

Gentlemen

Please send per Skene & Bridges

1 Box Candy with about 15 lb Kisses in it

2 Sacks Rio Coffee best quality.

1 Box Raisins

6 - Herrings

2 - Star Candles

1 - Washing Soda

1 - Black Tea

2000 Spanish Cigars Manufactured by J. Harmony

Enclosed you will find the amt of your Bill of Dec 15th of
forty seven dollars & fifty five Cents please acknowledge the
receipt of the same per Bridges

I oblige

Yours Respectfully

Saml. S. Heath

Airdrie Works 24th Dec 1860

Wm. S. Morris

6. 11. 1941

N. 10000
 10 of large and small
 20 of small 10000

1141025

1872

1. *See*

I - Portnoia della

1. *Black Sea*

Shells Mammals & Fishes

1842

[illegible]

—

1891

Aldrie Warts 24th Dec 1855

W. O. Alexander Esq^r

We have got No 2 shaft down
to the stone and are now working off the iron. The stone is
from 6 to 7 inches. I (W. O. A.) am a man of great strength,
I have no more to tell you about the stone. I am
not expect to be in the next 10 days. I am
the 10th of the stone. I am a man of great strength,
I have no more to tell you about the stone. I am
not expect to be in the next 10 days. I am

We expect to have No 2 shaft down to the stone in
right 10 days. Every day is getting along fine.

I have no more to tell you about the stone. I am
not expect to be in the next 10 days. I am

Yours truly
W. O. Alexander

Virdue Jones 25th Dec 1855

W. C. & H. Co. order Cash

According to your instructions I have
sent you a statement of Cash Recd from 1st of May 1854 to the
1st of the Curr Month viz

| Cash Dr. & Sundries | | Contra Cr. |
|--|--------------|-------------|
| Cash Recd. Page 1 st Amt | \$ 1868 0.65 | 16322.01 |
| " " " 2 " | 339.77 | 322.57 |
| " " " 3 " | 74.35 | 373.91 |
| " " " 4 " | 21.00 | 311.65 |
| " " " 5 " | 144.16 | 1513.40 |
| " " " 6 " | 853.39 | 813.38 |
| Balance on the 1 st Jan 1854 | \$ 20056.32 | \$ 20056.32 |
| Int of C Recd for " | 245.73 | 1736.56 |
| " " " Feb " | 1174.6 | 2860.39 |
| " " " March " | 3571.12 | 2624.21 |
| " " " April " | 4710.12 | 5328.45 |
| " " " May " | 1563.50 | 2008.03 |
| " " " June " | 10086.12 | 8592.30 |
| " " " July " | 5172.27 | 5943.90 |
| " " " August " | 5026.55 | 4222.17 |
| " " " Sept " | 5090.60 | 4987.02 |
| " " " Oct " | 6064.35 | 4405.33 |
| " " " Nov " | 348.23 | 4661.33 |
| Amt of Cash Received & paid to 1 st Dec | 66069.59 | 64456.30 |
| Balance due Cash on the 1 st Curr | | 66069.59 |
| | | 21386.91 |

From the foregoing Abstract it is balance appear
 favour of Cash amounting to One thousand three hundred & eighty
 dollars & ninety one cents, which was the balance payable on the
 sheet previous to the arrival of Mr. Heath (when we re-
 not thousand hundred dollars making a balance in hand
 of Eleven hundred & thirty dollars, which has been paid through
 the hands of the agents for Canal & Co, I hope you will have
 no difficulty in understanding the above summary it shows the
 amounts actually received & paid from the 1st of May 1834 to the
 30th November 1835 the Bal^{ce} being the Bal^{ce} at the latter date
 I could have made the foregoing report at an earlier date but we
 have been a little pressed this month by the opening of the Street

I have been over the proposed line of Railway to the old
 Survey the first & greatest difficulty is getting down off the ridge
 between the widow Henry's & Samual Weirs. The route we examined
 passed over Pond Creek bottom 4 or 5 miles part of the way the
 High water mark of the river is about 6 feet from the ground, having
 it is the mark made by the rise of the water in March last year
 and may not be so high again in a lifetime. At Dr. Britton's
 there will be considerable excavations & a Bridge under the Russa
 - ville road. Then again at Davis there will be another considerable
 excavation, but it will be generally very easily constructed. There
 are other routes which we intend to look before commencing the survey
 which we intend to do as soon as we get the pay over next month
 - Mr. France wishes me to inform you that there is very little doing
 this week it being Christmas & hard frost

I am Sir your Obedt Servt R. M. Patterson

Andru Forbes Esq
 29th December 1850

W.S. (14), and 2nd

Sir

I received to day your mail two
 letters from you one of the 18th the other of the 30th Aunt. I expect
 you have received several letters from this establishment since I was
 out. I have as Col^r Hearn has ended. I have been busy
 for some time. I sent you one. We have not got the boring machine
 in operation as they had a pattern to make for the wheel & it has
 not yet come in. We have got the rods down from the old
 furnace ready for use. I ought to mention in my last letter
 how I am. I am getting on. I am happy to inform
 you that it is doing very well. I am very active and
 doing a great deal of work. Mr. Linn is also getting along
 very well. I am looking forward to the time when there is no
 more doing here. The work here is nearly all left to hold
 this Christmas. As the frost still continues although there is
 signs of a change.

We have let the ends of the tunnel of the Yard & in
 the old bank we are working by the tunnel and intend to
 let the digging of the fire clay on Monday. In the end of the
 tunnel right to the furnace we have got the limestone all down
 down and are now started to take out the bottom.

We have again tried the thin white stratum of what we
 supposed to be a hard white slate & find it contains a considerable
 proportion

for position of Dan and will do very well for mixing.
The brings which we tried must have been from the blare
above

You have already been informed on all the other matters
regarding which you wrote in your last letter. Hickson
has not come here yet & he does not will attend to your
instructions about not employing him.

P. Brown wrote a letter yesterday evening giving you
a statement of our Cash matters from the commencement
and also his opinion regarding the proposed Railway to the
Cincinnati. He sent the programme of the cases which you
may find of interest & the other.

Captain Combs made a short trip to Evansville
last week, he went down on Friday on his way to Louisville.
He will probably get the \$1000 you sent the check
to get out about next week. We shall be glad to
see you here about the middle of Jan. & we hope things
are getting along in such a manner as will give you satisfaction.
— I'm ever &c. ever

Captain Heath desires me to say that his department
is getting at the story. There is not much business doing
this week as a great many of the hands have quit to hold
their Christmas.

I am
Sincerely

Your Obedt. Servt.
For Wm. Sprague
St. M.

Arctic Works 17th July 1866

R S L A. Alexander Esq
Sir

The frost still continues so the
the Green River is frozen so hard that they are crossing on the ice. and of
course we cannot do much outside work. All the Masons & Bricklayers
are stopped. McLean and a number of hands are clearing off the foundation
of the furnace. But we have done nothing in the mine for the last three
weeks. We have quite work in No 2 shaft having got through the coal
which is the same as in No 1 shaft. We are still going a-head in No 3 &
have just been down the same varies from 6 to 8 inches we are getting on
a fire as quick as we can as I am anxious to see how it looks underneath.

We expect to see you down as soon as the weather will permit In
the mean time

I am Sir

Yr obed^t Serv^t

Wm Lawrence

per Rant

Airdrie Works 14th Jan 1856

R S C Alexander Esq^r
Sir

I have been engaged for the last eight days in making the survey of the Railway from the old furnace toward this place and on Saturday last we got as far as Hendricks Esq a distance of 10 Miles & 835 Yds from the old furnace & we suppose about 4 Miles from Airdrie Works. As soon as I get matters straightened up here I will return & finish the balance of the way & after making the necessary calculations I will be able to give you a better idea of the probable cost of construction. The excavation at Davis' which I mentioned in a former communication we have avoided altogether by going round the point of the hill making the distance a little more but the expense less. There are several places where we can shorten the distance a little without any inconvenience otherwise which I expect will make the whole length of the tract a little over 14 Miles. But when I get the section drafted I will send you a tracing which will show the route &c

Capt. Heath desires me to state that there is very little doing in the Store at present money is very scarce

I am

Sir Your Obedient Servant
R M Paterson

Airdrie Works 15th Jan 1856

Mr. James Lee

Please send by the first opportunity
12 Kegs of Blasting powder & charge the same to
R. S. A. Alexander
per Paterson

Airdrie Works

Dear Paradise

Muthlburg St. St.

15th Jan 1856

Miss Viles St.

Edinburgh

We wrote you on the 26th of July
regarding the breachon for the Pistols of the following engine you made
for the works here but we have never received any answer. We wish to
know whether you have them made or not. & if you intend to furnish them
as we will want to use them soon please write as soon as convenient and
let us know what is to be done about them

I am

Yours

Yours Respectfully

per Mr. James Lee

& per Paterson

Andrie Works &

15th January 1786

W. S. to S. Alexander Esq
Sir

I enclose you with find a tracing of the Map & profile of the proposed line of Navigation from the old furnace toward this place so far as we have surveyed. it will be a few days before we get papers up in the Office so as to get out to finish it when we get time to do this I will send you a tracing of the balance of the route. After making a more careful calculation I find that I made a mistake in my last letter with regard to the length of the line to Hendricks which I then stated to be 10 1/2 Miles whereas it is 11 1/2 Miles. By going over the map again a very decided improvement could be made in the grades. The new line would be accomplished with very little cutting or filling by getting down the rising ground and keeping more round the hill a tolerable grade could be found with little or no. The next grade of about 1/2 mile can be arranged in the same way with little or no. None of the other grades can be diminished without a proportionate increase of labour. However I mention to you sometimes ago of a course which I have heard recommended as being the best viz to keep Pond Creek bottoms all the way up which would avoid all the heavy grading on the upper end of the line. as the point at which we leave high water marks going up that is high water mark of Bear River is only about 65 feet below the base of the bottom close by the old furnace and the distance a little over 6 miles which would make a pretty uniform grade of about 10 feet per mile and I think the distance cannot be much greater as you will perceive by looking at the plan of the course it will only make the line in the opposite direction.

I have not had time to examine this route but I will do it as soon as I can
get away. We may also find it to be an advantage to alter the course at
Hendrix's leaving his house to the right going up which would make the
course straighter and would avoid to some extent the deep water at the mouth
of Munn's creek as we would cross it some little distance above striking Red
Creek about a mile above Hendrix's. With regard to this end of the line it
will not do to come up on the ridge at all. The most practicable route will
be to come in by the Hillinger farm where Mr McLean now lives and
from thence near No 1 Pit to the mouth of the Tunnel through which
it will pass to the furnaces but more with regard to this point anon
As the mean time

I remain

Your Obedt Servt

Wm Patterson

July 25th 1856

Dear Sir

The weather still continues about the same as when I wrote you last
& consequentl^y there is not much doing. McLean has got the earth cleared off
the rock where the foundation of No 3 Furnace is expected to be. & we have
got a number more men into No 1 shaft but the stone is not getting any
better. We cannot do any thing in the Mines just now for want of powder
and no chance of getting any till the River breaks up. From the circumstances
(the River being closed) we cannot get the castings brought on to alter the engine
at No 1 shaft. We will require some money as soon as convenient after the
River opens as we have not yet paid off the hands for last month & this month
will be out before there is any chance of getting on money

I am Sir

Your Obedt Servt for Wm Patterson
Wm P

Airriv Wors 30th Aug 1756

Mr Samuel Orr

Please send by the first opportunity
1 Bbl Lard Oil
for the Lenten - & charge the same against
R. S. Mephan

per Peterson

VB Mr sent per Mail an order for 22 Bags of Blacking
Powder to be sent by the first chance I hope you will not
neglect it as we are out and in great want of it

per R. S. M.
P

Mrs Orr & Gabyll

Please send by the first opportunity
1 Chace of a good quality
1/2 Bbl Sugar & charge to

Wm Loran

per Peterson

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Airdrie Works 3^d Feb 1856

R S C Alexander Esq
Sir

There is no change of weather, frost still continues and nothing can be done. We have got out a fire of stone out of No 3 Pit we kindled it on Tuesday but it does not contain enough of combustible matter to burn itself & so went out. we are overhauling it and putting in more coal. What of it was scattered on the outside of the fire looks pretty favorable. But we will have a better idea when we get it all burned. We suppose the fire will burn out about 40 Tons of Calcin'd ore. The coal that comes out the same working is a very excellent quality being the best on the Works & we are securing it well with doors so that it will keep for a considerable length of time. I had a little difficulty with the Miners with regard to the price of working the coal & ore. They have not worked any this week. They wanted 2.00 per Ton for stone & 5.00 per bucket for coal however they have agreed to go in again tomorrow at 1.75 for stone & 4.00 for coal.

I neglect to mention in my last letter that the wrought iron pipes from Glasgow has arrived safe & also the kettles & etc.

The assessor was here yesterday, wanted a statement of your property in this County, but Humbly said he thought you gave all in Woodford County. I promised to write you regarding the matter and find out by the time he returns. But I hope to see you here yourself before that time.

If the weather be favourable tomorrow Paterson intends going out to finish the survey of the Railway. Alex H. also thinks of seeing the plot of the line surveyed that the route up Pond Creek will be the shortest and the best. So they will survey that route as soon as possible & report.

Capt Heath wishes me to inform you that there is very little doing in the Fort. Times is rather dull in his line.

I am Sir

Your obedient servant
 Wm H. Lawrence
 Rm 10

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Airdrie Works 18th Feb 1856

W S C Alexander Esq

Sir

Enclosed you will please find the balance of the tracing of the R R from the Old furnace the route surveyed we are starting this morning to run the course down Pond Creek from the Old furnace to the mouth of Kany creek which I think is the most practicable route As soon as we get over it I will send you a report of the survey You will observe that we have altered the course on this end of the line which will avoid any very heavy work on this end of the road, we could find a more level route still by going near Mr. H's house & joining the line already surveyed between the cross roads & J. Dearing's place, We have come in by No 1 Shaft & through the Tunnel which will save getting upon the ridge altogether I will write you as soon as I get back from the upper end

I am Sir

Yours obedient Servant
R M Paterson

Airdrie Works 18th Feb 1856

W. S. C. Alexander Esq

Sir

I am happy to be able to state that the stone at No 3 Pit has turned out as well or better than we expected it is now pretty well burned and looks to be of a good quality. A few of the Miners have left not being satisfied with the prices for which I informed you in my last letter. There is still a few at work and we have commenced to get out another fire.

I went out to the hill between the Hittinger Farm and No 3 Pit & found the out crop of the Coal & some show I have started a couple of hands to drive in a mine to see the thickness & quality and if it be as good as in No 3 shaft we can get it with less expense as it will save Lin Horse & 1 hand on the Pit head & we can burn it near No 3 shaft & carry it along the Railway through the Tunnel to the furnace.

I have made a pair of Fans & a Cupola furnace made from a part of the old boiler that was burned out & lying at Thornhill I think we can save considerable by making our own water pipes our wheels &c.

We are still doing a little in the quarry getting out the foundation of No 3 Furnace. We had a thaw for a few days but the weather has again set in frost. There has been no Steam Boats up the River since Christmas But I hope to see you down as soon as the weather sets in fair.

I am Sir

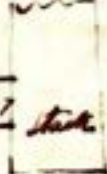
Yours Obed^t Serv^t
 J. W. L. S. S. S. S.
 Paterson

Andrie Warrick
of the Ranch 1856

My dear Mr. Warrick

I am

I believe that I have
given you the dimensions of the section for the River
a little too short - the end might the stand in a place
make 4 feet instead of 3 feet thus

00 00 00.4 ft. ^{section}  stick

I am

Gentleman

Yours Respectfully

John M. Lorrance

Or Mr. Pearson

Airdrie 31st Mar 1856

Mr Samson Orr

Please send by the first
opportunity, 1 cwt of 3/4 in Grass seed

2 Burs 3/4 in Cus-Mat

& charge the same

P. A. Alexander

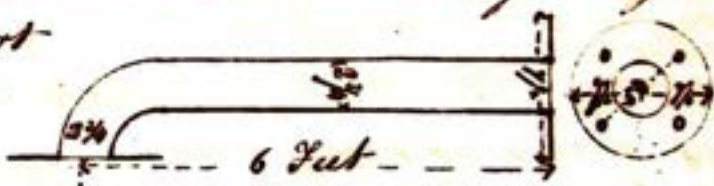
per J. M. Fraser

Airdrie April 13th 1856

Myr^{rs} Mary & William
Gentlemen

Received your favour per
Steamer ^{Bowling Green} ~~H. H. H.~~ proposing to make the Heater pipes (foundation)
in 6 pieces But I know that arrangement will not meet Mr. Alexander's
approbation. And from the experience which I have had with heaters
I have always found that the fewer pieces they were made in the
better so that I cannot consent to any alteration of the first plan
You mentioned in your letter that you had enclosed a sketch but that
I did not receive

I want you to make and send on by the Bridges as she returns
from Louisville a copper pipe $3\frac{1}{2}$ inches inside diameter for length
see sketch make the bend as short
as you saw from the bottom I have
sent you one flange but you will
require to make another $\frac{1}{2}$ inches over all & $5\frac{1}{2}$ inches across the center
between the holes see sketch above



If you would let Mr. McLaughlan know that I have accepted his
offer to state the roof of engine house you can tell him how many
squares there is in it. I think there is about ten (10) by so doing you
will oblige. I would have answered your letter by the Bowling Green
but they did not deliver yours till they were coming down

I am Gentlemen

Yours Respectfully
J. M. Lawrence
J. M. L.

Advised by Office 12th 1850

W. B. A. Alexander Esq.

I am happy to inform you that every

thing moves along satisfactorily since you have been at last. The canal there
the bill is the 1st stage has been completed. The two sides have been properly
straightened. The hands are getting the work from the mouth of the dam
to the stage. The pillars are completed up to the spring of
the rocks and we are getting the cutting in to cut the rocks. The work

is nearly all made. And the chimney stack is up and set
the house there is moving into the hill to the south east of the 1st stage. Between
it and the miller's dam and the one seems to be as thick as the other
we in the 3rd stage. We have opened up the 3rd again and we will not have
a very large shaft. One on hand when the furnace is ready to blow. We have

there was no place for the hand and I did not want to let them suffer
do I thought best to employ them than have the some other place was of no use
up where they were to be better advantage. We have not got on all the
machinery for the miller's shaft but we expect to be ready with it by long

last. I shall advise me to inform you that he has filled his tank for
the first time and it is in the first machine ground but he does
not intend to take the mill till last stage stands before him. He is
as he thinks it will be like taking advantage of imminent peril
now in the opinion of his father's people.

Very truly, yours
Wm. Patterson
18th October

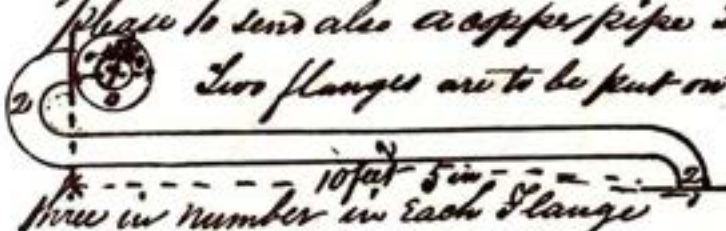
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Airdrie April 22nd 1856

Miss Kratz O'Brien
Gentlemen

I have sent you per Steamer
The Bridges gauges by which you are to select brass cocks, One for the
smallest pattern for the tallow cup of the Engine you sent up & two like
the other pattern for the ends of the Cylinder of the same Engine

I want also another wheel off the pattern you made 3 $\frac{1}{2}$ feet
diameter 5 in face but you must make the eye double the thickness
of the last as the eye of it sprung when we were driving the key plates
bore out the eye to the width of the length of a piece of wire which you
will find between the patterns for the Cocks

Please to send also a copper pipe 3 $\frac{1}{2}$ in diameter like the following sketch
 Two flanges are to be put on to the pipe 7 $\frac{1}{2}$ in over all & 4 $\frac{1}{2}$ in
between the holes which are to be
I want you to send an eight
flange besides the two on the pipe which will make three of the same
kind Please to send also 50 feet in length of 1 $\frac{1}{2}$ in lead pipes
And oblige

Yours Respectively
John Wm. Torrance
J W T

Birdie April 24th 1836
 Mr Samuel Orr
 Sir

Please send by the St. H. Bridges

- 1 1201 Lard Oil
- 2 Pigs Lard
- 1 doz Window sash 5 x 10 Lights
- 12 Bars 1/4 dy^m Iron Shovel
- 6 " 1/2 " " "
- 6 " 1 " " "
- 1 Paddle 3/4 " " "
- 6 Bars 1/4 Iron - "
- 6 " 1 " " "
- 1 Paddle 3/4 - - -
- 1 " 7/8 - - -
- 6 Bars 1/2 x 1/2 Flat -
- 6 " 1/2 x 7/8 - -
- 2 " 3 x 7/8 - -
- 1 Paddle 1 x 1/2 - -
- 1 Bar Swades Iron 1 3/4 or 2 inches Sq^{re}

I charge the same amt

R A Alexander
 per R M P

Sir John 24th April 1856

C. B. & A. Hamden Esqrs

Sir

I take this opportunity of writing for James & Bridges that I have nothing of any importance to communicate since I wrote you last we are casting the Arches of the Furnace & the Chimney stack is finished. The mine for the suction pipes from the River to the Flowing Engine is through we are going ahead with the retaining wall above the Engine House

We have not yet got fixed for boring in the Shaft as the Air in the Fire Clay is very bad we had to burst in off the side we proposed to bore in; in order to cause a current of air as both fire & damp was pretty bad in the workings. The drift which I mentioned in my last which we are driving into the hill above the Shaft is looking very well the ore is from 7 to 8 inches of a good quality. But I expect to see you here to see all that is going on when the Boat Returns In the meantime I am Sir

Your Obedt Servt

R. Wm. Torrance
R. W. P.

N. York

P. S. Capt. Heath sent you some orders the last time the Boat went to Louis-ville if you have not received them he wishes you to write immediately as he has heard nothing of them yet

R. W. P.

— Limerick April 27th 1766

My dear Sir,

I have

You will please receive with
this note the copy of paper ordered on the 13th Inst. You will
require to put 11 inches to the length of it as the dimensions
ought to have been 6 ft 11 in instead of 6 ft only. If it should
be convenient to have it altered & sent back by the St Bowling Green

Please to see Mr McLaughlan and find out when it will
be convenient for him to come up and state the roof of the Engine House
as I am anxious to have it done

I am

Dear Sir

Yours Respectfully

John W Lorrain

R M 10

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Airdrie 27th April 1856

My dear Messrs. Neilman
Gentlemen

We have broken the large
mitre wheel of the crag mill 3 feet 9 $\frac{1}{2}$ across the back $1\frac{1}{2}$ inch
pitch on back 3 $\frac{1}{4}$ in face bored out to 5 $\frac{1}{4}$ in square - The eye is
5 in deep please to send on another with the very first chance
as it will delay our whole works.

Yours
Wm. Neilman

Yours Respectfully
Geo. W. Lawrence
Glasgow

NB I hope you are progressing with the heater pipes & will
be ready for them I am afraid before you are ready R W L

Airdrie May 3rd 1856

Mr Samuel Orr

please send per Steamer B Green
13 Bars 2nd Size Iron

203 lb Sal monie

& charge the same againe

R A Alexander

per Patterson

Airdrie May 2nd 1856

Messrs. Hodge & Brilman
Gentlemen

I note you on the 31st ult per mail with regard to a bevel wheel for the clay mill which we have broke & least there should be any delay in the delivery of the better then sent I repeat the order which is void if you have received the first.

We want you to send by the first boat 1 Bevel wheel off the same pattern as you made the one off for clay mill 3 feet 3/8 in across the back 1/4 in pitch on the back 3 3/4 in face. The eye to be 5 in deep & to be bored out to 5 1/8 in diameter exact please to send on one without delay

I am

Gentlemen

Yours Respectfully

Jos Wm Torrance

re Mr Paterson

Airdrie May 15th 1856

Mr. Samuel Carr

Sir

per Mr. B. Green

1 1/2 lbs. Java Tea

6 1/2 lbs. Utica Lime

1 Reel of Packing Twine

I charge the same against

R. & A. Henderson

per Bill of Lading

Airdrie May 15th 1856

Mr. John C. Bone

Sir

Please send by the first opportunity

2 or 2 1/2 thousand shingles I charge the same against

R. & A. Henderson

per Bill of Lading

Airdrie May 17th 1856

Mr. Jas. G. Allen
Bowling Green Ky
Sir

In answer to yours of the 1st inst which I duly received I hereby inform you that we pay for Cast Scrap Iron Twenty dollars per Ton delivered here. And with regard to casting we will furnish them as cheap as you can get them in Evansville by those arrangements suit you, you may send on your orders by the Messrs H. Bridges & we will take pleasure in attending to them.

You mention that a moulder & his family would come here to work but I am sorry to say that we are not in a position to give employment to any person in that line at present. Though in all probability we will require his services when we get into operation which we expect to be in the course of a few months.

at once

Sir

Yours Respectfully

For Wm Lawrence
R M Paterson

W. C. A. Williams
 Dear Sir

Dear Sir

I did not intend to write you any more till I saw you on Green River but I learned from Capt. Banks that you were not likely to be here for a few days I send you these few lines to let you know how we are progressing with the work. We have got finished with the main part of the furnace and are now started to build the side walls & the chimney & the furnace and are now in a fair way of getting along. The brick and retaining walls will be much completed this month. Then our masonry work will be about finished. We have got the water pipe at the shaft altered to the second section and are now fixing for lining them.

We drew the water from the shaft at Williams and sent a draft in the shaft and in a few feet on the upper side of the shaft but the ore is very little thicker there than it is here being only about 9 inches at an average & the core is considerably thinner not reaching the thickness of the ore on the side between them is ^{3 or 4} feet. It will not do any more at it till you come down yourself which I hope will be as soon as you can possibly make it convenient.

James in Evansville last week & ordered the following pipes from Messrs. Halman & Fry are going a head with the water tubes and making a good job of them. They are getting bying pipes cast in Cincinnati. They will be at Evansville by this time. They made the Contr. of To pay Cash To The Foundry in Cincinnati. They would feel greatly obliged if you could let them have eight or Ten hundred dollars if

you find it convenient to order a little that at present having
sent out a good quantity of pipes & fittings
I am not sure

Friday 2nd June 1856

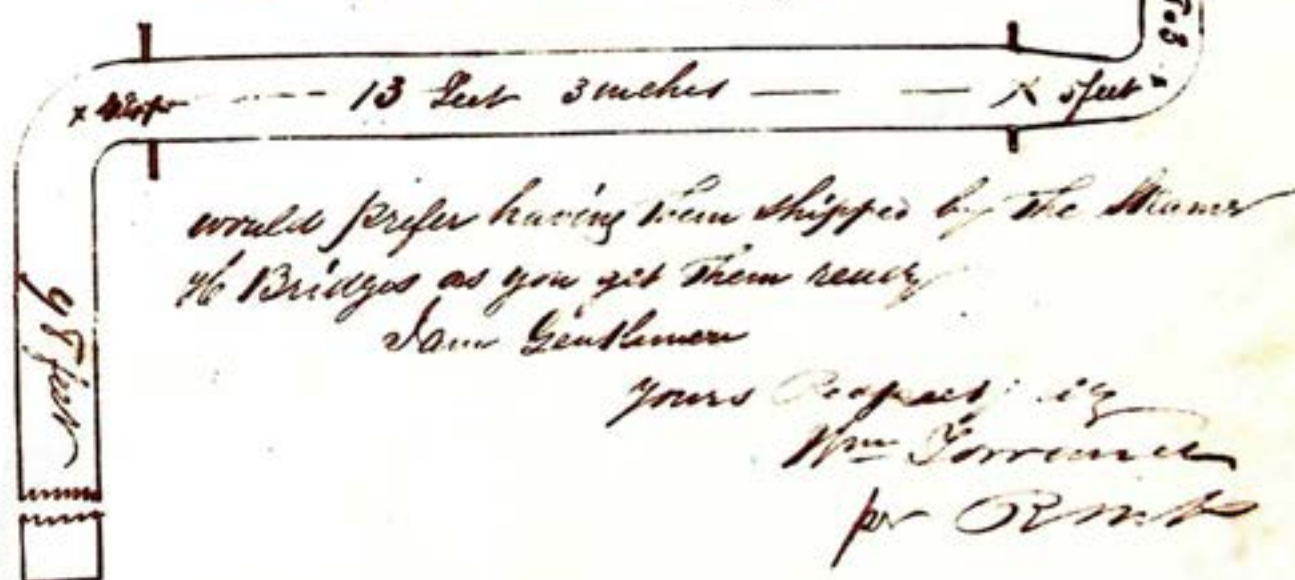
My dear Mr. & Mrs. Williams

Dear Sirs

I received yours of the
27th ult. & I have this day with Mr. Alexander with regard
to sending you some more which I expect to write forward to you
in a short time

With regard to the blowing pipes I want you to put angles
iron on all the pieces and punch the holes in one flange of each
piece. We have not time to visit them after they are put into their
place so I want you to visit them before you send them in we will
make the bolts ourselves with regard to the fanges the following sketch
will show where they will suit best. The 9 ft length
may be used in any length pieces

With regard to the shipping of the pipes I



would prefer having them shipped by the steamer
to Bridgport as you get them ready
I am Gentlemen

Yours Respectfully
Wm. Forrester
per O. M. S.

Lidrie 13th June 1856

W. Samuel Esq.

*Sp. sent by The Steamer B Green
1 Bottle in Round Box*

1 Saddle Tree in Round Iron

10/16

A.P. 7^d Square.

9 Regt of Line

2 doz Window Sash 8 X 10 Lg. D.

Charge the same against

L. C. & A. H. H. H. H.

Am. Phil. Soc.

18th June 1852

My dear George & William Emerson

Please send the pump

The Steam effect pipes by the Steamer 10 from
4-1-1880

4. 1. 1891

Yours Respectfully

Dr. W. L. L. L.

L. M. R. C. M.

Airdrie N^y 18th June 1866

Mr Samuel Orr

Please send per Steamer Reiving Glen
 1 Bbl Lard Oil
 6 Kegs Blasting powder
 12 feet in length of Copper or Brass Rod as near 1 1/2 in
 inch in thickness as you can get it If you cannot get it all in one
 length send 3 pieces 4 feet each in length

We will send you some money with Mr Davidson when
 he comes down

I am Sir

Yours Respectfully

S. M. Paterson

Airdrie 21st June 1856

— Mr. Geo. Watz, Edinburgh

When I saw Mr. Watz on Wednesday last I told him that the Blow pipes were to be made to suit when they are marked & put on the sketch all the other dimensions are the same as formerly ordered. I have sent you this memorandum to prevent any misunderstanding.

I am yours Respectfully
 Geo. W. Torrance
 13. 11. 11

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Airdrie July 12th 1856

A. J. Alexander Esq
Spring Station Rd
Woodford Co., Ky
Wm

I was directed by Mr. Roberts when he was here last to write you in his absence with regard to our progress here. We are getting along about the way we were when he was here we have again started to bore in the shaft without any material alteration in the metals which we are passing through at present however the blow is some slower in the collar and generally a little more favorable in its appearance. We have got a few more miners and getting out are as fast as circumstances will allow we are still getting along slowly with the furnace if the bottoming wall is finished we are looking for work behind the wall.

— Mr. Roberts said he would make arrangements with you about getting some money at the 1st of August. Our estimate then was about seven thousand five hundred (\$7500) which will be as much as we will want at that time please to drop a note stating whether or not you will have any chance of sending it down or if we will send up after it in the mean time

I am
Sir

Yours Respectfully
for Wm. Lawrence
R. M. Peterson

136
Airdrie July 12th 1856

Mr Love

Assessor

Muhlenburg Co. Ky

Sir

I have just received a letter from Mr Alexander in which he says That it cannot conveniently arranged to pay the Taxes of his property in This (Muhlenburg) County in the upper part of the State I wish you to call Therefore I make arrangements with regard to the assessment of the said property as soon as it suits your convenience

Yours Sir

Yours Respectfully

Geo Wm Corrance

R M Patton

29

Airdrie Aug 1st 1866

A. J. Alexander Esq.

I am now safe & was on Thursday
and found things all going on pretty much about Airdrie
James Gilmore has got the coal in No 1 shaft it is just thick
& of a Superior quality he (J Gilmore) Thinks to the best of
his recollection that it is about the same distance below the
level that it is at the old S. mine & Thinks it is the same coal
We are now fixing for sinking the shaft down to the ore.
We have got a few more men but we have as many as we have
places for them to work in

Henry Holman will have their small steamer ready
in about a week They are going to try & tow up the castings
with it when they get it ready

I presume I will write Mr. Haller how we were getting
along in No 1 shaft but as the mail is about closed I
would like it as a favour if you would let him know the
particulars at your earliest convenience

I am

Yours obedient servant
for Wm. Torrance
R. H. Patterson

20

Airdrie Aug^r 11th 1856

Mr Thomas Carr
Please send by the bearer Mr Hendricks
25 lbs Lead Oil
8 or 10 lbs Lamp Blacking & the
10 x 14 Glass ordered by Mr Lawrence
also the Pail

Yours
for W. A. Alexander

W. A. Alexander

Airdrie Aug^r 11th 1856

Mr John W. Whilman

Please send by the bearer Mr
Hendricks the Copper pipe which you have ready & the
valve send also the grease cock & also the Steam
gauge which Mr Lawrence ordered for Mr Whilman

Yours Respectfully

for W. A. Alexander
W. A. Alexander

Friday Aug: 16th 1861

A. Alexander Esq^r

Wm.

We are at present getting out some
Red Clay from No 1 shaft as we are requiring some to furnish
Brick for the furnace stack. While they are doing that I think
it would be advisable to go a little deeper to see what lies below
the present strata are such as we might expect to find a good
deal of brick under. We were up at the old furnace in a little
bit of the formation of the minerals there I think that our
present finding the same here is not better than ever
I mentioned in my last letter when stating the thickness
of the coal that we have found in the bore that there are 9 inches of
gravel over it that might make it impracticable to
work should a demand for the coal ever be made.

We have run of the upper & lower pools of Green River
so that there will be no chance of getting up the last of the
furnace till a rise of the river has happened.

The works are progressing about in usual way
nothing new of any importance to be reported.
In the meantime

Yours
Wm. L. Smith

Yours respectfully
Wm. L. Smith
Agent



A. S. Reynolds Esq.

We are at present getting out Fire Clay from No. 1 shaft as we are still short of having as much as make as many bricks as will be required to finish the furnace. Till this is done we cannot commence to sink the shaft as we must be convenient both sink & put out fire clay. I was up at the old furnace a few days ago & got from Mr. [unclear] a copy of some of the Books which were put down there. From the arrangement of the [unclear] shown in them I have [unclear] to continue bring in the bottom of the shaft while we are getting out the Fire Clay. We have got things going & prepared all ready to go into the shaft as soon as we are ready to go to sinking.

I mentioned to you in my last letter that we got [unclear] of walls above the [unclear] but we got in the [unclear] This may possibly be a profitable thing at some future time.

We are getting as many [unclear] as we can employ. They are coming in as fast as we can get [unclear] for them.

They are at present running [unclear] so that there will be no chance of getting the papers from [unclear] till a rise comes in the River. All the other [unclear] are getting along as usual.

Yours respectfully,
Jm. D. Jordan
Ambr

Airdrie 29th Aug 1876

Mr John E Stens
S. Carrollton

Dear Sir

We received per Mr Stewart
Eleven thousand five hundred shingles on the 27th inst
but I am sorry to say that they are of such an inferior quality
that we cannot make any use of them, please to come up or
send some person to look at them and make arrangements about
what is to be done with them as we will not use any of them till
we see you. In the mean time

I am

Dear Sir yours Respectfully
for W^m Lawrence

W. M. Lawrence

Mr. Samuel Carr Sidra Aug 29th 1856

Please send by the first opportunity

| | | | | |
|---------|------------------------|----------------|---|---|
| 12 Bars | 2 1/4 x 7/8 | Char coal Iron | | |
| 12 " | 1 1/2 x 1/4 | " | " | " |
| 6 " | 1 1/2 x 1/2 | " | " | " |
| 10 " | 1 in Round | " | " | " |
| 6 " | 1 1/2 x 7/8 | " | " | " |
| 6 " | 1 1/4 Round | " | " | " |
| 4 " | 1 1/2 Sq ^{re} | " | " | " |
| 8 " | 1 1/2 " | " | " | " |
| 4 " | 1 1/2 Round | " | " | " |
| 3 " | 2 1/2 x 1/2 | " | " | " |
| 1 Rod | 1 x 1/2 | " | " | " |
| 1 " | 3/4 Round | " | " | " |
| 1 " | 3/4 Sq ^{re} | " | " | " |
| 1 " | 7/8 Round | " | " | " |
| 1 " | 7/8 " | " | " | " |
| 1 " | 7/8 " | " | " | " |
| 1 " | 1/2 Sq ^{re} | " | " | " |

8 plates of sheet Iron 6 feet x 2-6' No 10 Wire Gauge
 3 Bars Cast Steel 3/4 Sq^{re} 2 Bars 1 in Sq^{re} & 1 Bar 1 1/2 Sq^{re}
 Mr. Torrance says he ordered some when he was down but this covers
 all the orders for Iron

I am Sir
 Yours Respectfully
 Wm. R. Alexander
 Wm. R. Alexander

Siraric Ry Sept 7th 1856

Mr SCA Alexander Esq^r

Sir I received yours of the 1st inst and was glad to hear that you had again landed safe on the western side of the Atlantic. You say you don't quite understand the position of the balls above the coal mentioned in Mr John's letter in order to give you an idea of the matter I passed through I will give you a copy of the Journal of the day from where we left off in the letter sent you on the 9th Nov 1855. The depth at that date was

215 fms

| | |
|----------------|---------|
| Hard Sand Rock | 7.4 |
| Blaze | 6.1 1/2 |
| Rock | 3.0 |
| Blaze | 1.2 |
| Blue Fakes | 4.4 |
| Do Do | 1.8 |
| Sand Rock | 9.0 |
| Blaze | 1.2 |
| Ironstone | 1.6 1/2 |
| Slaty Blaze | 4 1/2 |
| Hard Sand rock | 5 1/4 |
| Blaze | 7.9 1/2 |
| Blaze | 0 |
| Blaze | 3.6 |

Total 211.5 fms

We have bored about 25 fms farther but I have not the journals at

at hand just now but will send it to you when I write
next. We are still boring deep as there is a fair prospect
of still coming to something better. I can while we are getting
out five day shifts we have a full stock of that out it will
take about two weeks more if we find nothing in the bore
by the end of this week we will come & clean out the shaft &
make ready for sinking. There is one sinker came on from Newcastle
& I expect another in a few days.

The amount of ore got out in the month of August
was 175 tons and we will be able to get out more this month
as we will have a few more miners at work.

We have got on right on with the plates on the furnace
and about 20 courses in above the breaking we have a kind of
brick work but it takes ^{immense} ~~another~~ lot of brick to put
in a course we have nearly as many made as bring it up to
the top of the plates.

We have got the bank pretty near leveled off
and the pig bed has been well d in.

We have made a drawing for a banding house
that will accommodate about 70 barrels we intend to have
it put up as soon as possible.

I will write you with regard to funds before Capt
North returns from N York. by whom we will expect some supplies
but the mean time I remain

Your obedient servant
Jm Crance,

Airdrie N^y Sept 3rd 1856

R. A. Menison Alexander Esq^r

Sir

We received from Captain Heath four thousand dollars it will not quite clear up the bonds for the last two months but we can get along till the 1st of next month. We hope to see you here your self before long.

We have had the spinning engine in operation and it goes most splendidly it is a fine machine.

We have the furnace casing finished all so the last course of joints & the brick work is within 9 feet of the Tunnel head. we have got out as much fire clay as we think will be required to finish the furnace and we will be able to get a head with the sinking without any further delay.

The amount of iron ore got out in the month of Sept^r was tons 52 1/2

I am Sir

Your Obedient Servant
J. M. Menison
R. M. P.

Airdrie Oct 14th 1856
 R. Mitchell Alexander Esqr

Since I wrote you last we have put on three shift of sinkers in the shaft but they have not yet got quite there. The Limestone in the Bottom it is very hard.

We are getting on miners as fast as room can be made to employ them but we have there is another drift not far from the mouth of the Tunnel so that we will be able to employ a good many hands and get out a good deal of stuff after a while.

We are getting along with the furnace as fast as we can get the bricks made. The Iron casing is finished. We want only about 16 courses of brick to finish it up to the Tunnel head.

In making out the estimate for Taxes I found that you had got no land made for the Coal Bank Survey of Land so we had it run out and a deed made & recorded. The estimate of all the payable property which was held in the County of Cumberland is set down at \$30.50 which was as low as they would come.

In running out the Coal Bank &c. I found that Handley Survey covered the best part of that ridge. For mining purposes & that we could not get along so well with our operations without a right to his land so we have bought it at \$82 per acre payable at Christmas we thought it better to do that than purchase the right to the minerals within the lands as it is surrounded by your lands on all sides.

Mr. Moore requests me to tell you that the Deed you gave him for the deed of the Rock Creek &c. Land will not do to record as it having the boundaries he wishes you to make added and bring it with you when you come down.

Hoping soon to see you on Green River I remain

Your obed^t Serv^t Wm. Lorrance

Airdrie Nov 10th 1836

E. M. Brock Esq^r

Enclosed you will please receive a plot
of the Survey according to Mr McLean's Field
notes But you will observe that the lines given does not
close the plot, I have made a calculation of the Lat
& departure which shows an error of Lat equal to 17th
poles & an error of departure 14th poles. The latter
is a considerable error and would make the calculation
of the area rather uncertain. It might be a little more
satisfactory for all parties if Mr McLean could make
it convenient to run the survey over again, before the
deed is made out. Or if you can come down I will make
the old bargain with you I will run the courses for you
I am

Dear Sir

Your Obedt Serv^t
R. M. Patterson

Air Mail Nov 26th 1856

Charles Sumner Esq

Wash D C

Sam: Thompson who arrived here lately from Old Orchard has just now handed over twenty dollars which he wishes you to pay to his father. He says he made arrangements with you by & by with regard to this matter. He says he will leave six hundred a month in the office here to be paid to his father beginning with the first of January / 57 but as you will not feel justified in acting in this authority I will mention the matter to Mr Alexander when he gets here. He will give you more instructions. However I believe it would be a great accommodation to the parties concerned if you would act upon it in the meantime till official orders can be forwarded.

Mr. Mrs Burnell Throp's which you sent out arrived here last week all in good health & spirits.

I saw your son Alexander on this day a week ago & him and all the family were then in good health.

I am

Dear Sir

Your Obedient Servant
R. M. Paterson

102
 Andrie Ky Dec 5th 1856
 R S Alexander Esq

Sir I received per R M Patterson
 Ten Thousand dollars (\$10000) which will pay all hands
 up to this date or nearly so. I expect to see you down on
 Green River before we require any more money.

John Jones inquired at Belknap's in Louisville about
 Rails and brought a piece of a Rail which they make in the
 Rolling Mills. He will furnish at \$75 per Ton. He also
 requested me to write to Pittsburgh to ascertain
 on what terms they could be got. The Rail which they make
 in Lou's city is about 26 lbs per yard and will suit our purpose
 very well more convenient getting them there unless they can be
 got cheaper in the East.

The furnace is finished and a fire inside to dry it
 out, the stoves are all put in to their place and get
 commenced to put up the stoves.

We are going down with the shaft and will
 cut out 450 of ore in the month of January.

Capt Combs went up the River today on the 1st
 H Bridges and The Eaves went up three hours behind
 him.

Sir Your Obedient Servant

Wm. Terrance

Airdrie N. Dec 5th 1876
 E M Brankes ^{jr}

I received yours by last mail and
 we think that the amount of acres which you there states
 (164) is probably about the quantity contained in the handy
 form and as it is pay off at Christmas it would be as well
 to get the deed made out forthwith

I am Sir
 yours respectfully
 R M Paterson

Airdrie N^y Dec 12th 1856

Messrs Messrs. Millman

Gentlemen

I want one of you to come up and see the Heater pipes which were furnished for this establishment the Heater pipes at the ends are 100 inch for the spaces in the bed pipes after the fitting stops are cut off the upright pipes they will barely go into the flues no room being left for joints. I hope one of you will come up with the first boat and see what is to be done about them

I am Gentlemen

Yours Respectfully

Wm Lawrence

per Patterson

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Ardur Ky Dec 12th 1856

My Friend

Dear Sir

I am instructed by Mr. L. to inform you that he will divide the difference which was between you and me with regard to the Boys here that is he will give you One Hundred and forty Dollars for each of the Three boys you mentioned if you are willing to have them upon these terms you will oblige by letting us know as soon as convenient

I am

Sir

Yours Respectfully
R. M. Patterson

Airdrie Dec 19th 1856

Mr Jackson Robtson

Sir I stated your proposition to
Mr Pirman with regard to putting up a Cabin to
secure your hands on. he says he will furnish you
lumber to make a door & will give you sash & glass for
the window But with the distinct understanding
that it is to be used for the purpose above named only
and that when you are done with it for that That you
resign all claim ^{to the same} to the proprietor of the works on
whose land the Cabin is to be built

Yours

Sir Yours Respectfully

R M Paterson

Airdrie Dec. 30th 1856

R S & A Alexander Esq^r

Sir We have expected to see you each time The Bridges has returned from Louisville but as often as we looked for you we met with a disappointment We will not look for you now till after the New Year but we would be glad to see you as soon as you can make it convenient to come.

When I was up last I did not wish to ask any more money, than we could just get along with till you would come down & examine our accounts & see how we stood but there were several items which I altogether overlooked in making the calculation of how much money we would require I had promised the Contractor for the Farming-house three hundred & twenty five dollars which I did not think of when I saw you I also paid about six hundred dollars for Log and shingles and the Pay List overrun my calculation considerably there was then 450 or about 1st amounting to \$ 792

" 1121 Coal \$ 1.00 " 1121

For sinking shaft Enginmen draws wages &c 1044

Making the whole amount of the mining Dept 3957 which is only \$ 43 short of what we calculate the Pay List for you to amount to, we will require about seven thousand dollars at the 1st of January to put us all straight. However we can get along with Five thousand

Till you come down Capt Heath will bring it down
on his Return from Cincinnati if it be convenient for you
to send us some

I received a letter from Mr Brant stating that
he had made Handy's land the same as I did 154 acres
The agreement was to pay for That Land at Christmas
if you send us \$7000 we will make out to pay the land
and any thing else that may be pressing at the 1st of January

Capt Heath by whom I send you This will give
you any further information that you may wish with
regard to the Mobs &c

I am

Sir

Your obedient servant

R M Paterson

Ardie W. Sawyer 1st 1857

Mr. Samuel Orr

Stamper Bowling Green please send by the

2 Ropes each 500 feet long 3 inch diameter

6 lbs Lard Oil

35 Kegs Blasting powder

& Charge the same against

W. A. Alexander

per Treasurer

Airline N^y Jan 1st 1856

R. S. C. A. Alexander Esq

Sir We received per Capt. Heatin Seven Thousand (\$7000) dollars, One Thousand Eight Hundred & Forty eight we have paid for Mrs Hunt's land And with the balance we can make out till the 1st of Feb.

The amount of Coal got out in December was 933 Tons & the Ore was 471 Tons being decrease of Coal 200 Tons and an increase of Ore 31 Tons on the last month (Nov)

The shaft has been sunk 57 feet since they commenced last making the total depth 368 feet and 143 feet to go to the bottom of the stone

The weather is rather unfavourable for out door work but we are getting along as well as might be expected, we have got 24 of the Heat pipes fitted into the Base pipe. The Base pipe of the other Heater is fitted & raised & if the weather settle so that we can work out we will have them finished in the course of two or three weeks. The plates on the Tunnel-head of the Furnace are all laid down and the railing all finished. There is nothing else of importance

I am
Sir your Obedient Servant
for Wm Torrance
R M P

Airail 8th January 17th 1857

Mr Samuel Orr

Sir please send by the first chance

40 Bars $2\frac{1}{4} \times \frac{3}{8}$ Iron
 12 " $2\frac{1}{2} \times \frac{3}{8}$ "
 6 " $2\frac{1}{2} \times \frac{3}{4}$ "
 2 Rods $\frac{1}{2}$ Round
 2 " $\frac{3}{8}$ "
 1 " $1 \times \frac{1}{2}$ "
 12 Bars $1\frac{1}{4}$ Round
 3 Cwt $\frac{3}{8}$ "
 12 Bars $1\frac{1}{2}$ Square
 6 " $1\frac{1}{4}$ "
 1 Mill Saw $\frac{7}{8}$ Iron
 2000 ft Softy Pine
 1 pair Large Smiths Bellows

& Charge The same to
 R. S. C. A. Alexander
 per Return

Airdrie N^y Jan 16th 1857

R S & A Alexander Esq^s

Sir The weather still continues cold no boats running although Green River is not frozen They cannot get out into the Ohio, we are getting very little done to the Heaters on account of the frost but we are going a-head with the Mining Department & sinking, Miners are coming in from Haysville as fast as we can employ them & we expect to have the largest output of ore this month that we have ever had

I did not see any prospect of getting Iron Rails to lay the road through the Tunnel with for some time so I thought best to lay wood rails in the mean time and haul through a stock then put in the Iron ones when we get them, McLean this hands are employed at present laying the temporary track We have nothing of importance to communicate In the mean time

I am
 Sir your Obed^t Serv^t
 Wm W. Torrance
 R M Vester

Victoria Bx Jan 29th 1857

My dear Mr. Keating & Co. Please send by the first
Boat up Green River 1 Bbl. Blowing being dust
It as many of the paper as you have ready
Yours &c

for R. A. Alexander
R. M. Patterson

Victoria Bx January 29th 1857

Mr. Lawrence Orr

Please send by the first Boat
1 Bbl. Lintseed Oil
3 " Lard
10 lbs Horse shoe nails Hand made 10th
10 " " " " " 9th
1 Bar 1 1/4 in Cast Steel
1 " 1 " " " "
2 " 3/4 " " " " Charge to

R. A. Alexander

for R. M. Patterson

R. A. Orr & Co. Charge to
Mr. Lawrence

Madison Ky Jan 29th 1854

Mr S C Alexander Esq

Sir

We have now resumed work at The Heaters The frost being over for the present. The River is broke up and The ice running out if The Ohio is open The Works will commence running before long & Mr Paterson will be at Louisville when the boats start for some Blast gauges & several other articles that we want before we can start he will come up and see you when he is round.

McLean is still working on The Furnace it has taken more work than we expected but he will get finished with it in about two weeks.

The Shaft has been sunk over 80 feet since we started last There is only about 110 feet to go to The Ore, we are still getting more miners.

I am

Sir

Your Obedient Servant

John McInerney

R McInerney

This Indenture entered into This 5th day of
 Feb 1857 Between William Drake & R S C Alexander
 Sheweth That The said Wm Drake has this day
 hired to The said Alexander his two black boys Pompey
 & James from date to The 24th of Dec next (10 1/2 months)
 for The sum of Two Hundred & Ten dollars (\$210) being
 at The rate of Ten dollars each per month payable quarterly
 The said Alexander agrees to Board Them during Their term
 of service & to furnish Them with The usual articles of
 Clothing

William Drake
 pro R S C Alexander
 R M Paterson clk

Audric Feb 5th 1857

Airdrie Feb 7th 1857

Messrs Knap & Co
Gentlemen

I was very much surprised to hear by Capt Lister that you have not got any of our beaks pipes ready. On the 6th of January you wrote that you were getting them out & would soon be ready to ship them. Trusting to this information we pushed a-head with those we had here as far as we could go & was just waiting for the first boat with the expectation of receiving the balance. But the River has opened and no pipes ready & we are at a perfect stand. We worked in cold disagreeable weather in order to be ready. Now the weather is warm & fine & we have nothing to do. I have not been so badly disappointed since I came on Green River. I hope you will have them on by the return of the boat that disappoint me again.
Send two kegs of boring dust by the first boat

Yours Respectfully
Jas McTearna
R M P

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Ardrie Ky
March 5th 1854

Mr C. I. Parter

Dear Sir

I received your
letter stating that you had some Saw Logs
that you would run about the month of June
If you bring them down about that time we will
give you for Poplar from forty five to fifty cents
per hundred & thirty to thirty five for Gum & oak
If they are all first rate Logs we will give you thirty
five & fifty. Should these terms suit please let
us hear from you As we would as soon have your
Logs as anybody else

Yours Respectfully

Jm Wm Lawrence
R M Paterson

Airdrie 24th March 19th 1857

My dear W. B. Bellinaps Esq

I am

As we are in immediate want
of the Railroads iron Orders on the 21st Feb I take this
opportunity of soliciting your attention to it as soon as you
possibly can. Please to write by the first opportunity & let us know
when you can fill the order

I am

Yours

Yours Respectfully
for R. A. Alexander
R. M. Paterson

Virgins March 20th 1857

Mr Simon Croft

For case sent by the first
 opportunity 20th Mar. 2 1/2 x 1 1/4 Flat Iron
 6 " 2 1/2 x 1 1/4 " " " "
 2 " 2 1/2 x 3/4 " " " "
 2 " 1 1/2 x 7/8 " " " "
 1 " 1 x 1 " " " "
 1 " 2 1/2 x 1 1/4 " " " "
 1 " 16" Half Round Ratchet Struck File
 1 " 16" " " " " " "

Send the first charcoal if you have got it as we
 cannot use the com The two files ordered above you sent
 them but sent a good one would not do for
 the new cut Therefore send the Iron though you
 charcoal for R. A. Seymour
 R. M. Croft

Audric March 25th 1837

Messrs Kratz & Heilman
Gentlemen

I wrote you for Steamer
Bowling Green to see if you could engage a Blacksmith
for us But as now has come on we supposed you had failed
in finding one Mr. Torrance & Mr. Alexander wish to
see one of you up here as soon as you can get up as They
want three Steam Boilers and They want to see you about
making them If you could come soon and bring a Blacksmith
along with you it would be a great favour.

If you can find any Cotton waste in Evanville
we want you to send us a Bale & we wish you to give us
some information about where it can be had best & cheapest
Hoping to see some of you here soon

I am
Sincerely

Yours Respectfully
A. M. Patterson

P.S. We has a cast out of The Blast Furnace to day for
The first and it looks like doing well
A. M. P.

W. Samson Esq. Airdrie 31st Mar 1854

Please send by the first opportunity
 6 Long Window Sash 8 X 10 Lights
 3 Pair Case Locks Common say 20 or 40 each
 1 Pair Sash 7 1/2 feet & 1 do 7 feet good strong pair

You promised to ask some one for a drawing board
 I would like very much to get it I want it 4 1/2 feet in length
 and as long as possible in width 2 1/2 feet in breadth it is not possible
 to state what the dimensions of each piece is I should be glad if you
 had an opportunity of getting it for me

I am sure I can pay you charged them on your
 bill but we did not get the Sashie Expense last night if
 he is not of mind to pay it but he does not know any thing
 about it. Please to send us 10 lb more as we are quite out
 and we are very poor for last you sent 2 lb

Yours &c

J. A. Alexander
 & M. Paterson

Airdrie N^o - Apr 2nd 1857

Mr. Kinchlow

Please send us as many shingles as you
can by the first opportunity & oblige

Yours &c

pro R. A. McFarlane

R. M. Paterson

Airdrie N^o - Apr 2nd 1857

Mr. Kinchlow

Please send by the first opportunity

6 Bbls Lard Oil

1 Coil 4 inch Gas Pipe

6 Pkts Tacks 14oz & 16oz

1 Pint 1 Quart & 1/2 Gall Lin Oils

& when you have done so

Yours &c

R. M. Paterson

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Ardur 24 April 17th 1867

R S C A. Alexander Esqr

You have already been informed that the Boilers have indeed given out & we have been obliged to blow down the furnace. The middle boiler leaked so bad that it put fire out about five hours before the furnace was down & that we had to run that length of time with two Boilers. The plates seem to be too jelly so that the inner sheet kept the water from acting on the outer jelly and consequently it got hot & yielded to the internal pressure, we have taken them out & brought them up to the mill but we will not do any thing more with them till you see what you can do with the manufacturers. We have got the furnace cleaned out & I think it will not be much the worse. Mr. Hilman will have the three Boilers ready in about three weeks. We have & about half of the rails from Belknap, & as Guterson directed him to send the bills of them to you when they were all shipped I hereby send you the prices which he agreed to, I missed them up by rails 3⁹⁴¢ per lb, Chairs 5⁰⁰¢ & Spikes 1¹²¢ so that you can compare them with the prices in his Bill.

The shaft is within 33 feet of the ore & will be down by the time you tell Belknap that you would be down (in 3 weeks) and I expect to see you here by that time Yours &c Wm. Lawrence
R M P

Madrie Ky April 24th 1857

Sir

I have been at Evansville and inspected the rollers which Kratz & Schilman are making for us and I am very much pleased with the appearance of both materials & workmanship. They are trying their best to make a good job.

No 1 shaft is within 13 feet of being down to the ore, we are at present putting on one of the new ropes and will be delayed a day or two as the pulley on the pit headframe is too small and we will have to make another one before we can do any more. But we expect to get a-head and have it down to the ore by the end of next week. At all events it will be down by the time you get here. I would like to see you down here as soon as convenient. In the mean time

I remain

Your Obedient Servant

Jos Wm Lawrence

R M P

Sir

When I saw you at Lexington you told me to direct Belknap & Co to send the bill of Rails to you. Besides the Rails we owe them for two bills of Iron Amounting to \$351⁰⁰. They asked me if they would include them with the bill of Rails. I told them your instructions were to send the bill of the Rails. The above is the end of the other after you may do as it suits your convenience about them.

I am Sir your Obedient Servant R M Paterson

Air Mail Ky 8th May 1857

R S C A Alexander Esq

Sir We did not write
you by last mail as we expected to see you
here with The Bridges last trip We expect
to see you yet before this gets to hand, we stated
in our last that we expected to be down to
The ore in the night & the time you got here
we have now reached it but I am sorry to
say that it is again a failure it is a kind of
of Red ore & kind a rough coarse rock
which will not answer our purpose

I hope you will make it our wish
to come down as soon as this comes to hand
and let us know how you stand as I perceive
we are rather at a stand at present

I am Sir

Yr Obedt servant
Jas M Lorrain

R M Lorrain

Airdrie Ky May 20th 1854

I have this day received from John B. Tyler for collection
a note of hand for Twenty Four dollars & Twenty cents bearing date
Aug 11th 1856 payable one day after date by J. B. Robertson to
Sarah Figg. The said note or its equivalent I promise to give up to the
said John B. Tyler or his order on demand

R. M. Patterson

Airdrie Ky May 21st 1854

Mr Samuel Orr

please send by mail at
2 Reg 3^d mails
1st 4th
4th 8th & charge 5th

R. A. Alexander
per R. M. Patterson

Airdrie N^y May 26th 1854

Messrs Kratz & Heilman

please send up 9 Boiler plates 5 feet 9 in long by 2 feet 2 in wide to repair the old (Cinn) Boilers and we want you to send up your boiler masters & tools as soon as possible, to fix the Boilers

I am Gentlemen

Yours Respectfully
for Mr. Lawrence
R. M. Patterson

Airdrie N^y May 26th 1854

Mr Samuel Orr

please send per Steamer Bowling Green 500 feet of $\frac{1}{2}$ in Rope if you have not got all in one coil and two coils & charge to

R. A. Alexander
per Patterson

Money as two months will be due to the
lands by that time

We can start the furnace as soon
as you please as we have two or three
waste stock haulers through & lying on
the bank In the mean time

I am

Sir Your Obedient Servant
pro Wm Swanson
Rm Paterson

Airdrie 14 June 1857
R S C A Swanson Esq
Sir

I am happy to inform
you that we have got every thing ready
to start the furnace again except the laying
of the iron rails & that we expect to have them
in the course of a week or two. The new boilers
do first rate and will afford sufficient steam
with about half the fuel by the enlargement of
the grates & fire space

We had commenced boring in the shaft but
the cast iron frame of the engine gave out right
under the jumbo block of the main shaft breaking
at the same time one of the spur wheels & pinions which
has delayed us about a week but it is now all
fixed and we are drawing out the water to make a shaft

We expect to see you here soon but should any
thing happen to prevent you from coming I will send
a Mr Paterson about the last of this month for some
money

Ardrin June 15th 1857
Mr Samuels Arr

Please send per Steam

- 13 Gun 1 Bbl Linseed Oil
6 Kegs 8^d nails
6 Kegs 8^d --
1 Rop 1/2 in Copper rivets Copper Bands
3 packages 3 in finishing nails
3 - 2 1/2 " "
3 - 2 Brads
3 - 1 3/4 " "
3 - 1 1/2 " "
3 - 1 1/4 " "
3 - 1 " "
1 - 3/8 " "
1 doz Comm door Locks
1 " Hand Screws
like H. F. in margin



Yours Respectfully
for R. A. Alexander
R. M. & Son

Airdrie July 10th 54

Messrs Jona Harris
Louisville

Gentlemen

I am sorry to
inform you that the Flour you sent us
is of such an inferior quality that we cannot
sell it and would send it back if we had
an opportunity, but the steamy clam is given
out and no boats running. You may therefore
be the House you purchased it from and make
them do what is right about it. Those who
have bought it from us cannot make use of
it and it will be a dead loss

I am

Gentlemen

Yours Respectfully
Jas S Heath

R M Patterson

Airdrie July 10th 1857

R S C A Alexander Esq

I promised to write you
as soon as I returned home but we were paying
of the hands at the time the mail started last
week therefore I neglected to write till the mail
has gone, I am not here till the day after tomorrow
at least and we have got settled with all hands
in the month of May. But I am sorry to inform
you that someone has not got the furnace started
yet he had the coal in and nearly ready for the
fireman when the dam gave out and the river fell
below the power of the pumps to raise the water to the
cistern so he has to sink the well in the engine house
deeper and run a new main to the river through the dam
this he is doing just now and will be completed in two or
three weeks, But he is exceedingly anxious to see you
soon if you have not started before this comes to hand
we would like to see you as soon as possible

I am Sir

Your Obedient Servant

R M Patterson

Airdrie N.Y. July 31st 1857

R. A. Alexander Esq^r
Sir

We received ^{a letter} from H. Adams of
Rumsey informing you that no millstone could be found for sale
about Rumsey. But as you would probably see Adams as you went
through there he would tell you the particulars himself. There is no
change for the better as yet in the ore in the shaft - Elmore is
still in sand rock, We have got in about 120 Feet in the mine at
the River without reaching the Coal, but today they have found the
black slate and indications of the Coal and we think by tomorrow
they will have the solid Coal and in 10 days more they will reach
the well. We have succeeded in making the casting for the shaft
of the Sawmill Crank it is a first rate casting & weighs 16 lbs
we intend to ^{stop} the mill right west and have it overhauled, we stop
the mill now at dinner time only, you have to wait the saw and
to take dinner

I returned yesterday evening from Evansville & brought
with me Kratz & Heilmann's account of repairing the Boilers
which came from Cincinnati which with the other accounts for
fixing the Boilers I have sent you enclosed

Hoping that you arrived safe at Woodburn and that
you are nothing the wiser for your trip to Green River

I remain your Obedient Servant
P. M. Torrance
P. M. Paterson

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*Cost of Repairing Steam Boilers of The Blowing
Engine at Airdrie Works*

| | |
|--|-------------|
| For Plates Work as per Messrs W & Co's ac | \$291.90 |
| Freight on Iron Bellows & Tools (Dowling Gun) | 6.50 |
| Fare of 4 Boilermakers from Enniscorthy per St | 15.00 |
| Boarding Bill for Messrs Lawler | 17.00 |
| 3 Men 11 days assisting Boilermakers | \$125 41.25 |
| Fare Taking back Boilermakers & Tools to Enniscorthy | 18.00 |
| Expenses of Team & Boarding men on the way | 13.60 |

Airdrie Works July 31st 1857.

\$403.25

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Airdrie Works July 31st 1857

Captain Roberts
Dear Sir

I bought a Day Book and Ledger from Morton & Co. and gave directions to have them addressed to R. A. Alexander & put aboard of the Steamer Union. But they did not come with the other freight that was shipped at the same time & I thought probably Mr & Co. had neglected to ship them. So I had Captain Heath call at their store & inquire about them. They told Captain Heath that they sent them to the Post and took them into the office & gave them to the Clerk. If you know any thing about them we would feel obliged if you would inform us where they are as we want them very much. The Books above referred to were shipped the day that I went round with you at the time the Tom broke down waiting your reply

I am Sir

Yours Respectfully
R. M. Paterson

To Thomas Dunn
Airdrie Works

Sir You are hereby notified to
remove with all your goods & effects from the house which
you occupy at Airdrie Works on or before the 1st Sept. inst
next as I require the House by that time

R S A Alexander
by R M Paterson

Airdrie Aug 1st 1857

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Airdrie Works August 2^d 1857

P. S. Mr. Alexander Esq^r
Sir

We have not yet stopped to repair the mill but we intend to commence fixing on Monday. The new Sawyer from Carrollton came up to start work, I told him that we were going to stop to repair and that he might go to work and assist us but he said it was not every job that suited him & he would go home. We were ready to run so he did not commence at all but went home.

Edmore has got through the sand rock that he was in when you were here. He got a streak of coal under the Rock and six inches of black slate under the coal. Then he went through what we supposed to be a Ball nine inches thick of a very rich quality. Then he got Blue (shale) about 8 inches thick interspersed with smaller balls and now he is about 27 feet into the fakes or slaty sand rock.

We are now 55 feet in with the drift at the furnace, and we have got the coal about one foot in thickness. But the River has got up into the drift so that they cannot work for the time, but from the appearance of the weather it cannot stay long up.

Hemig & Murphy has a pair of millstones four feet diam which they will sell. They formerly belonged to Edw. Whist of Greenville. I intend to go out to see them soon and if they will sell them at a reasonable price I will buy them. In the mean time

I remain

Your Obedient Servant
pro Wm Lawrence
D. M. P.

Airdrie 15th Aug 1859
 R. M. Alexander Esq^r

There is nothing new of importance since we wrote you last. We are making a thorough overhaul of the mill. This week we have bought the millstones from Hendrie & through by which I mentioned in my last with all the connecting gearing for P.M. we intend to have them hauled down & put in operation as soon as possible.

The drift from the River to the Engine House will be through. Tonight we will have the pipes laid down right across and the week after we will be ready to go in to blast. It would like to see you down at that time but as the fair is coming about then we can scarcely expect you.

We will require some money about the end of this month. Paterson wanted about two thousand dollars of having enough to pay for the month of July. I suppose the balance of this month to be five thousand that that will be seven thousand at the last of this month. Paterson will start from here about Wednesday the 26th & will go up for some money if it be convenient for you to let us have some about that time it is troublesome getting along without it.

Filmore has not come to anything of consequence as yet he is in Blue Lake, and should at present but Paterson will bring you a copy of the journal when he comes up.

In the mean time I remain

Your Obedient Servant
 for Wm. Torrance
 R.M.B.

Ardrie N.Y. Sep 25 1857

P.S. A. Alexander Esq.

I got to Louisville on the 16th and rec^d
your letter from Mr. Seltnap I went & saw Elora the of the
Salted Foundry with regard to making the shaft a steel
Consulting with Mr. Seltnap on the subject we thought the best
way would be to give them the order which I did at 94 feet
is the rough. It is to be shipped to morrow to Owensboro & I made
arrangement to have it sent on by waggon as soon as it arrives
The size that we expect it to be by the middle of next week I have
to run off the segments from the 3^d wheel and will put with
enough on the end of the beam to counterpoise the weight of
the pistons & I ordered slides crosshead & a connecting rod for
that purpose from Elora. The which are to be sent on with
the shaft. I have removed the wooden frame from under the
piston in back of the main shaft and we are getting a cast iron
I cast block made at Evansville as soon as a team after it this
morning. We have got the furnace all cleaned out and the tuyers
& I hope put in again and I think it will not be much the worse
We have been obliged to stop the boring in the shaft in order to get
out some too clay but we will resume again as soon as we get out
a few tons. We will have the furnace in operation again as
soon as possible. But I wish to see you down as soon as you
can make it convenient. In the mean time I am
Your obedient servant Wm. Crancey

Airdrie N.Y Oct 9th 1857

R. S. Alexander Esq.

We received the shaft from
 Elmer & Co. on Sunday last it is a fine piece of timber
 and splendidly finished as good as could be got anywhere
 it is now put in gear we started the engine yesterday and it all
 works well. The pump is a fine piece of work and we have
 the wood in the furnace all ready for another start.

Mr. Lean has gone up to Pigeon River with some
 loads for a flat load of limestone we have found some
 fine of a very good quality and it will be cheap to get
 it from there than to haul it from any place where it is
 in. It is nearly all gone.

We do not care for any money this month as we thought
 you might be put a bit by so great an expenditure in getting
 us this. But at present we are not in circumstances to suffer
 very heavily by want, it is as I said I wish we could
 have however we hope to see better times.

We hope to see you here as soon as you can make
 it convenient. We are very truly

Yours &c

Your Obedient Servant
 J. W. Lawrence
 Oct 11th

Airdrie 1st Oct 16th 1857

My dear Glover & Co

Yours of the 2nd Inst is
to hand with the set of the shaft &c
enclosed which we find correct. We also
received the shaft and other fittings all right
every thing fits nicely we have them all
fitted up and in motion and all works well

We expect Mr. Buchanan here in the
course of a few days and we will then make
arrangements about settling of accounts
for the Great Firm

I am
Yours very truly

J. Wm. Torrance
R. in Victoria

Airdrie N Oct 23 1857

R S A Alexander Esqr

We got The furnace
in blast on Saturday last but The metal
did not come down free and after The cinder
began to rise The cold material from above fell
down into The hearth and threw the cinder into
The River The hearth being filled with cold mat-
ter had to be melted out which has caused us
a good deal of trouble however we think we will
soon have her in good going order but what is
worse than that I am afraid The iron is no better
than it was before

I am very anxious to see you down here
as soon as you can make it convenient in
The spare time

I am your obedt Servant
Wm Donnell

Airdrie N.Y. Oct 26th 1857
Messrs. May & Meidman
Cranville

Dear Sirs

I herewith enclose
a draft on the Bank of Montreal for Two
Hundred Fifty Six ^{dollars} ~~100~~ ⁰⁰ and is payable by a
Letter of Credit for the amount therein specified
please to note on receipt of this and let us know
if you can accept it, if so, Credit our account
with the amt. If you cannot accept it please
to return it to me

Yours
Respectfully

Yours very Obedt Servt
Jas H. Henderson
N. H. Henderson

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Airdrie Ky Oct 27th 1857

J. B. Waller Esqre. Dear Sir

We received a letter from Mr. Oliver informing us that he was about to start for Europe & directing us to communicate with you with regard to the concerns of the works we therefore transmit for Captain Heath a statement of the amount of liabilities at the close of this (October) month which is as follows

| | |
|--|------------|
| Balance due at the 1 st September | \$8711.67 |
| Amount of Pay List for month of Sept | 4695.00 |
| Clower & Co Louisville for Sept & Oct 1857 | 542.27 |
| Kiesling & Co " " " " " " | 261.06 |
| Sumner & Co Evansville Oct & Nov 1857 | 657.65 |
| Wright & Heilman Balance of January acct | 474.16 |
| M. Henson Bal ^{ce} on contract of building Hall | 700.00 |
| G. H. Vickers Contract of building houses by | 500.00 |
| John Smith for building houses | 200.00 |
| Suppose the pay list for the month of Oct the same as Sept | 4695.00 |
| | \$14267.50 |

We have the furnace in operation although not yet in good running order we are a little deficient in steam power & obliged to overstrain our Boilers but we have a spare one which we will immediately put in when it assists the others very much. The iron which we have made is no better than formerly but we intend to try another kind of ore to mix with the ore that we are now using and we are in hopes that it will make good iron,

over

Mr Alexander in his letter recommends a reduction of the expenses of the works as far as practicable, this we have already done to some extent - The expense of this and last month being two thousand dollars each less than the two previous months, but we will still make a further reduction for the present until Mr Alexander returns from Europe

We have suspended operations in the shaft since we received Mr Alexander's letter and enclose a copy of the Journal to date

Journal of the shaft

Oct 188 - 10⁰⁰

| | |
|----------------------------|-----------|
| Coal | - . 5 |
| Blaze or Shale | 1 " 0 |
| Ising Rock & Shale | 1 " 6 1/2 |
| " " " | 4 " 10 |
| Shale intermixed with lime | 8 " 6 3/4 |
| Ising & Shale | 10 " 10 |

of the same below bottom of shaft \$ 215 " 3 1/4

Captain Heath can give you any information that you may desire as he is perfectly well posted in the general details of the work

In the mean time

I am Sir

Your Obedient Servant
for Wm Lawrence
C. R. P. R. R.

Airdrie N. Nov 2, 1857
J. B. Waller Esq

Sir We are still making Iron & we will be able in a short time to make again iron of it such as it is but I am sorry to say that the quality is not good it is of a very rich quality which you may perceive from the specimen I am sending which I have enclosed and which came out the in handpiece off the pipe of a large iron boiler it is short & brittle, we had a small quantity of Ball ore which we have tried without making any improvement. And I have erected a new Lode of Coal which we will try next year and see what it will produce

Every thing goes along prosperously and promising success if we could only make the iron a little longer

We wish Mr. C. G. Smith to come down as soon as he can after his return from Europe and we will be glad to see him & I hope to be doing with him in the mean time. Dear Sir Yours &c &c
J. B. Waller

Viridie H. Nov 2nd 1857

James McLaughlan agent
1857

To Viridie Horses

To Balance of House Rent \$2.50

To Balance of Fire acct 9.49

To Coffin & Burial exp. of J. McLaughlan 10.00
\$21.99

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Airdrie N Dec 1st 1859

W. S. H. Alexander Esq

Sir You have no doubt heard that we have again failed in our attempt to make good iron & I am sorry to say that I have little hope of ever being able to make good iron from that ore by itself. On the night of Wednesday the 24th one of the plumbier blocks of the Centre of the main beam gave way and as the iron we were making was no account we thought the best plan was to let it stand till you got home to see what your views were about proceeding. I sent Mr M. Paterson up to state the facts to your Brother & Mr Waller they are both of opinion that you would want to proceed with the sinking of the shaft to see what these walls would turn out, so we have drawn out a Specification (a copy of which you will find enclosed) of Contract for that purpose should it meet your approbation we will

immediately proceed with the sinking of it as we think it can be let much cheaper now than at any other time.

Good many of the Miners have left the place & those who have remained we have put on half time till we should hear from you.

This will be handed to you by Captain Heath who will give you any further information with regard to matters that you may want. But we hope to see you soon with the Captain so that we may know how to proceed.

I am Sir

Your Obedt Servant
Wm Lawrence
Rm 10

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This Article of Agreement entered into this the
22nd day of Decr AD 1867 between R. L. Alexander
by Mr Torrance his agent Edward P. Bennett
at the said Alexander has hands of said Bennett
his boy Ullius from the first day of January 1868
to 25th Decr 1868 for the sum of One hundred
and fifty dollars said Alexander is to pay
for said boy with good and suitable clothing
for the season to say all necessary expenses but
if at any time a Physician should be required
to wait upon said boy. Waiting pay shall
be paid at above written

Torrance

1-45)

Ardrie Jan 25th 1858

Wm H B Patterson & Co
Louisville
Gentlemen

We receive yours
of the 6th Inst enclosing an acct but it does
not agree with your acct in our books which is

| | |
|-----------------------------------|-----------------|
| May 26 1857 Bill of 12 1/2 Chains | \$ 56.45 |
| 29 1/2 " Iron & C | 115.36 |
| June 25 1857 " Nails | 89.50 |
| | <hr/> \$ 261.31 |

The above is all the Bills that are due by
the works to your firm so far as I am aware. The
amt of which we will send by the Saratoga next
trip but the bill Aug 30 of \$25 must be we
been for the Farm in Woodford as Capt. Heath
says he did not get it for the store. You may
know where the Store is for by the order, all orders
for the works are signed by me for Mr. A. & all orders for
the Store are signed by Capt. Heath for Mr. A. & Co.

I am Gent^l - Yours very Respectfully
R M Patterson.

Sirariv Jan 25th 1858

J. H. Reno Esq

Sir I am sorry to inform
you that Mr Alexander has suspended
operations here for the time consequently
we cannot find employment for you & boys
any longer at present we have sent them
home and will settle with you for the time
they have worked any time you can make
it convenient to call

I am

Yours very respectfully
A. M. Alexander

Sirariv Jan 25 1858

Mr. Weston

Dear Sir I am instructed by
Mr Alexander to inform you that he
proposes to suspend operations here for
the present and will not have any part
- alar use for the saw & drift mill he will
leave it to you or any other respectable
firm on reasonable terms if it should
suit you you may have all the information
with regard to the terms by calling on
Mr Alexander at the works.

I am Sir

Yours Respectfully
A. M. Alexander

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 P. S. C. Alexander Esq. *Viridie by Feb 6th 1858*

Si We have now cleared
 off all hands for the month of December being
 the Balance paid in Cash on Dec was \$2761 ⁷²/₁₀₀
 " " " " January \$3260 ⁴⁰/₁₀₀
 amounting to \$6022 ¹¹²/₁₀₀, I have received from Capt
 Heath \$800 and I have a little on hand yet but
 I have not got things Balance up so as to make
 a full Statement of how we stand having two months
 to settle together and so many of the names leaving causes
 a great deal of confusion but we will soon have every
 thing straightened out, Ovis Bill at Evansville Amounts
 to about \$1099 ⁴⁵/₁₀₀ Wells at Evansville \$155 ⁴⁵/₁₀₀
 The Bill of \$25 from Robinson was right I now rec'd
 - it to order it was added to C. R. Spinks but I did
 not get the Bill I consequently was not aware

I will write you in a few days giving a
 more full and correct Statement of your affairs than I
 have been able to remain

Yours Obedt & sincere
 C. M. Patterson

Airduie N^y Feb 11th 1858

Chas Lindrie Esqr

I have to inform
you that the work here have been for
the present suspended & James Thomson
has left the employment of the Alexander
having paid 15 dollars each month for 12 mo
7.26 per month making in all two hundred
dollars that has been retained here on acct
Money which you were to pay his father
I did not keep any thing for last month
As I understood you commenced paying his
father in March. So I thought we would just
keep the 12 months

Y^r Obedient Servant
Abm Peterson

Sir
 Sir Alexander Esq.

Sir We have nothing
 new since we wrote last to inform you of
 we will have all our logs cut about the last
 of next week and we will have the sugar mill
 finished about the same time so that after that
 rest everything will be at a stand. the cracking
 of Coas excepted. There has been no person here
 inquiring after the mill to lease it

Patterson has been engaged surveying the
 vines before the water runs over the fence of the
 dip when he has finished that he will make out
 a statement of how the money matters stand then
 he will be ready to come up with the sugar mill
 and will give you a hand to put it up when he comes
 up to survey your place, in the mean time

I am

Your obedient servant
 Wm. Lawrence

per 15/10

Airdrie N. Y. Nov 25th 1878

R. C. J. Highland Esq.

Sir We have shipped
per Steamer Beaconet The Sugar Mill & Twelve
more pipes Capt Heath is along and will
see that they are forwarded to the Railway
& hope the will come to hand all safe Every
piece is crated with a centre piece on the place
where it fits But should you not be in a
hurry about having it put together Please
will give you a hand to set it up when he comes
to make the survey of your land

I have got all the work going to
for the Flaming Mill finished with the exception
of two shafts & we had not got got iron or we
would have made them also. But there has been
no person looking after the Mill to leave it, so
I thought we would not put out any more expenses
on it for the present it is in a state now that it
can very soon be finished if required

[Faint, mostly illegible handwritten text, likely bleed-through from the reverse side of the page.]

— Vivre by Nov 3rd 1788
R. C. Alexander Esq^r

I enclose you the 2nd sheet
giving you a statement of how our money has
— been doing here. The amount of borrowed money
at that time was \$1232.47 of that amt we have
from A McLean \$ 284.65 which will leave
a Balance of \$948.42 due to men that are
about to leave & consequently will want this money.
The 1st of Nov. we have Capt. Lee's \$800 which
will pay off the Balance above, all to \$148.42
The 1st of Dec. due on the pay list on 8th Men \$18.05
I suppose our expenditure this month \$333.53
will make the amt require at the close of ^{this month} \$1000.00
I think after this month we will be about able to
keep going by the sale of Cattle

If you could send us \$1000 by Captain Heath
to clear off the men that are going away it would be
a great accommodation

I am Sir
Your Obedient Servant
R. C. Alexander

Alfred S. May 14th 1887

Dear Mr. H. H. H. H.

I got safe home to Alford on Friday night last but not in time to write.

I am now at home and am well.

The name of the place is The Point at present 1100 cubic yards of coal is being mined.

It is a very good coal and is being added to the pile by a large quantity of coal.

It is a very good coal and is being added to the pile by a large quantity of coal.

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Wardle 27 August 1858

[illegible][illegible]

L. M. Peterson

Friday Sept 20th 1795

I am very much
pleased to hear of your
success in your
studies and hope you will
continue to improve
yourself in every way
possible. I am very
much interested in
your progress and
hope you will
continue to improve
yourself in every way
possible. I am very
much interested in
your progress and
hope you will
continue to improve
yourself in every way
possible.

Airdrie Ky Nov 11th 1858

R S C A Alexander Esq^r Sir

It is now some time since I wrote to you but since then nothing new has happened worth reporting, we are laying a road to No 1 Drift above No 1 shaft and intend supplying the Steamboats with coal from thence as it is not quite so good for coking as the coal from No 3. So we will coke the balance of the No 2 Coal which will make enough I think to smelt all the ore on hand. If the weather is good we will probably have a sufficient quantity of coke to make up the ore on hand about Christmas. I will make all ready for starting the furnace about that time except the boilers repairing for that I will wait your orders. I will have 200 pipes, branches, & bends ready by Christmas to ship when you want them.

The boats have again started to run but the river is low and falling so that it is not certain whether they are kept on running or not. If they all keep running they will about furnish funds enough to keep us going.

I am
Sir Your Obedient Servant
Jm Corrance