**RI MS HD/15/E**

**RI MS HD/15/E, p. 000**

15e

[underline]un peu[/underline] si vous plait  
Whatever of beauty  
or of grace  
[Ink sketch of a face in profile]   
[Ink sketch of a face in profile]

[Pencil sketch of map and compass]  
39 [unclear]Banstead[/unclear]

**RI MS HD/15/E, p. 001**

\*1  
[underline]Vauxhall[/underline]  
The light was glimmering through the trees  
As raised by magic power  
And balmy was the waning breeze  
And full of [underline]hope[/underline] the hour.  
Cloathd in loveliness by pleasure  
Before me lightly flew  
In jocund pace to jocund measure  
A gay & motley crew  
Among them forms of beauty strayd  
Fair as the morning beams  
And in such fairy tints arrayed  
As warm the poets dreams  
With flowing locks that rested free  
Upon the soft & fragrant air  
With sweetest smiles of Harmony  
And bosoms heaving full & fair.  
No rapture kindled in my breast  
unmoved the scene I saw  
From fountains of delusive Art  
No streams of natural love  
can flow

**RI MS HD/15/E, p. 002**

By me unnoticd passed the dream  
Of Midnight revelry  
As passes the first twilight gleam  
Oer the half closed sleepy eye.  
Away in Quietness I steall  
To seek a soul to Nature dear  
And if a transient joy I felt  
It was that [person\_002]Anna[/person\_002] was not there

[Horizontal rule]   
Soft was the light that fell from her eye  
As that of the Rainbow seen in the blue  
sky. – And like that light though  
bright & clear – It spoke of many  
a coming tear.  
Like the wave of the tear, uneven  
her mind. When moved by the  
blast of the westerly Wind. –  
As soft & as changeful its colours  
were given  
how ~~glowing~~ darkened with Earth

**RI MS HD/15/E, p. 003**

3  
Oh could our spirits winged with flame  
Cast off their earth born chilly frame  
~~Yet carry~~ [insertion]preserving[/insertion] all their thoughts that move  
In holy harmony to love  
~~All~~ [insertion]Ah[/insertion] then how blissful would it be  
To traverse Natures reign with thee  
[Horizontal rule]  
The Earth should be our first abode  
And We would chuse the mountain road  
Basking upon the cliffs that lie  
Beneath the [deletion]mornings changeful[/deletion] [insertion]dark unclouded[/insertion] sky  
And whilst the sunshine spread below  
The life of Natures genial glow  
We in the snowy realm would rest  
In clouds of changeful colour drest  
The cataracts foam should be our boat  
Upon the Torrents we would float.

**RI MS HD/15/E, p. 004**

In vain I have swore I will love her no  
more.  
She torments, She perplexes; yet I must adore  
Her form is a fairys airial & free  
And now glowing with heaven  
its soft & as changeful, were  
all its wild dies  
Slow darkend by Earth & now  
Warm with the skies.  
Like the fitful day of the  
summer storm. –  
Her heart by turns was  
cold & warm. –  
Short is her anguish &  
tranquil her form  
She hates me to day  
She will love me tomorrow.

**RI MS HD/15/E, p. 005**

5

When from admidst the vallies  
wild  
[unclear]xx[unclear] **hails** the flowers  
unfinishd  
[unclear]xxxxxxx[unclear] [unclear]gild[/unclear]  
[unclear]xxxxx[/unclear]  
And to [unclear]West[/unclear] [unclear]xxxxx[/unclear]

consigned  
Was softly ardent  
[unclear]xx[/unclear] refined  
As yet untouched

By doubts or fears   
If [unclear]x xxx xx xxxxx[/unclear]

Of [unclear]x xxxx[/unclear]

**RI MS HD/15/E, p. 006**

When  
As soft & as changeful its colours  
were given  
how darkened by Earth  
how glowing with heaven  
As smooth as the wave  
of the sea was her mind  
[insertion]As the[/insertion] When moved by the breath  
of the Westerly winds  
Her rapture is quick &  
short is her sorrow  
She loves me today  
She will hate me  
tomorrow

**RI MS HD/15/E, p. 007**

7  
It may be a matter of surprise that the influence  
of philosophical opinion has been so little  
felt & so transient in its operation  
but all astonishment will cease when  
it is considered that the truths of  
Science have been always limited to  
a certain number of individuals  
& that they appeal to the reason  
of Men & not to their feelings.  
However eloquent the language in  
which they have been delivered  
its character must of necessity  
have been different from that  
of popular declamation which  
relates to objects familiar to  
all & to passions which

**RI MS HD/15/E, p. 008**

[unclear]gliding[/unclear]

every mind is capable of  
feeling. – .

the progress of philosophical  
discussion is like that of  
the the Quiet stream [insertion]of cultivated country[/insertion] it  
descends pure & clear  
it either moves by obstacles  
~~then it~~ or [insertion]slowly[/insertion] saps their  
foundations it fertilizes  
& adorns. – [deletion][unclear]xxxx[/unclear][/deletion]  
The course of popular opinion  
is similar to that of new made  
the Torrent swolen by Rains  
It rapidly moves along overflows  
it banks & [insertion]it[/insertion] carries it  
with it mud & stones

**RI MS HD/15/E, p. 009**

fruits & flowers, its force is  
irresistible [insertion]but of short duration[/insertion] its effects ~~destructive,  
its duration~~ are powerful  
but destructive. –  
In the fine Arts [underline]emulation[/underline]. In our  
Modern Arts [underline]profit[/underline] – Luxury & its  
good effects – [unclear]xxxx[/unclear] Ridiculous  
opinions of those who are  
constantly asking cui bono. –  
The one is powerful  
[Ink sketch of a face in profile]  
& transitory, but destructive  
The – other is [insertion]gentle[/insertion] transient  
but [insertion]permanent &[/insertion] full of benefits –  
[Ink sketch of a face in profile]

**RI MS HD/15/E, p. 010**

like the fitful day of  
the summers storm  
Her heart by turns  
is cold & warm  
Though [deletion]I have lost thee now forever[/deletion]  
[deletion]The calm air does not feel my sigh![/deletion]  
I joy that thou art absent; for my soul  
Glows with the genial renovated flame  
Of holy purity & honest love!  
The thought that then [deletion][unclear]xxx[unclear] absent[deletion] [insertion]existeth[/insertion] warms  
my mind  
With a wild sentiment of angry [deletion][unclear]xxxx[unclear][/deletion]

**RI MS HD/15/e, p. 011**

11  
My friend! My sister long Remember me!  
For in my Spirit ever dost though

[Horizontal rule]  
Ungrateful Girl, my Heart No more  
For thee shall tremble, pant & glow. –  
[deletion]To love, to wonder, to adore.[/deletion]  
My feelings ne’er again shall flow  
To love, to wonder, to adore. –

[Horizontal rule]  
Tis not because thy faith is gone  
That I am in this angry mood.  
Perhaps you live for me alone.  
Perhaps you still are Kind & good.

[Horizontal rule]  
I know in thee no single fault. –  
And yet for thee, I do not care.  
Alass thy Virtues all are taught  
And Nature only made thee  
fair. –

[Horizontal rule]  
[insertion]In deepest study still I find thee[/insertion]  
[deletion]I always find thee in Serenity[/deletion]  
of How & where, & when to please;

**RI MS HD/15/e, p. 012**

[deletion]The[/deletion] [insertion]You[/insertion] are the ~~kindest~~ [insertion]fairest[/insertion] Child of Heaven  
And [insertion]Heaven[/insertion] [deletion]God[/deletion] in [deletion]transport[/deletion] [insertion]Kindness[/insertion] to thee gave  
me for a slave.  
You will not be forgiven.  
[insertion]by thy cruelty[/insertion] Nay you wll neer yourself forgive!  
If those [deletion]fair[/deletion] bright [underline]charms[/underline] on which I live  
Should lead me to an early grave

[Horizontal rule]  
Oh be not cruel; think my[deletion][unclear]xx[/unclear][/deletion]  love  
What daily pangs for thee I [deletion][unclear]xxx[/unclear][/deletion] [insertion]bear[/insertion]  
What daily [deletion][unclear]xxx[/unclear][/deletion] care.  
~~And~~ yet [insertion]will[/insertion] your [deletion][unclear]xxx[/unclear][/deletion] [deletion][unclear]xx[/unclear][/deletion]  not approve.  
Aught that I suffer! will not show  
With what a painful fire I glow  
How much, How warm I love. –

[Horizontal rule]  
Oh let that [insertion]Law that bargain[/insertion] ~~refract of~~ the light  
That grain thy humid eyes, still beams  
In pity stream.  
Oh that thy cheek is [deletion][unclear]xxxxxxx[/unclear][/deletion]

**RI MS HD/15/e, p. 013**

13  
[deletion][unclear]x[/unclear][/deletion]   
The summers ~~sweet~~  
white & fleecy cloud  
The lustre of thy cheek is pale  
[deletion]its the [unclear]xxxx xxx[/unclear][/deletion]  
[deletion]As the late summer[/deletion]  
the ~~lustre~~ [insertion]colour[/insertion] of thy cheek is pale  
As the fair fleecy cloud that rest,  
Apon the rivers chilly breast  
[unclear]~~xxxx~~[/unclear] the watered vale  
Along  
[Horizontal rule]  
[insertion]showers …. bowers towers lowers powers[/insertion]  
~~That starting tear  
Thy life that late in~~ [insertion]redness[/insertion] [unclear]~~xxxx~~[/unclear] ~~wed~~  
~~With the first buds  
Now write;  
With early summers  
With the first buds of Indian rose~~

**RI MS HD/15/e, p. 014**

~~My lips have lost their ruddy~~  
~~pride  
And thou~~[unclear]~~xxx~~[/unclear] sixteen springs have seen  
thee rise  
With ~~health & pleasure in thy~~  
[insertion]beauty beaming in thy eyes[/insertion]  
And sixteen summers now  
have given  
Thy charms thy perfectness of [unclear]xxxxx[/unclear]

[Horizontal rule]  
[insertion]Anguish[/insertion]

[deletion]Misfortune now[/deletion] has [insertion]never[/insertion] touched  
thy [deletion][unclear]xxx[/unclear][/deletion] mind

2  
No loss of friend, no change of fate  
~~Thy pleasures shall have~~  
~~been refined  
And~~  
Fortune to thee was always

Kind  
And still thy [unclear]devious[/unclear] steps  
attends  
Yet faded is thy lovely form  
~~And~~ faded ~~is~~ thy face [insertion]is faded once[/insertion] so fair  
Thy cheek [insertion]that way[/insertion] with roses ~~once so~~ warm  
[unclear]~~xxxx~~[/unclear] pale & glistening with  
~~Shines the sad lustre of a tear~~

**RI MS HD/15/e, p. 015**

15  
a tear. –  
[Horizontal rule]  
Nature has Kindly bade thee love  
But thou wilt not her laws obey  
Oh haste her holy joys to prove  
And follow where I point the

way.  
[Horizontal rule]  
Be not ungrateful [insertion]fairest[/insertion] ~~lovel~~y Maid.  
Oh haste thy loveliness recover  
Let Natures sacred debts be paid  
And Bless thy self & bless thy lover.  
[Horizontal rule]  
~~[insertion]Soul of my Being[/insertion]~~Oh let thy heart with rapture  
beat  
And soon the ruddy blood shall rise  
Oh may not thou feel no other

blush  
Than the soft blush of early love

**RI MS HD/15/e, p. 016**

My throbbing bosom prest to mine  
Shall swell with new & riper charm  
~~The gentle pressure of my arms~~  
Thy earthy form shall grow divine  
Within the pressure of my arms  
And from that [insertion]strong[/insertion] ~~warm~~ & living fount  
Kindling [deletion][unclear]xx[/unclear][/deletion] new roses in thy cheek  
The purple stream of life shall  
mount  
[unclear]xxx[/unclear] why this change my lovely [unclear]xxx[/unclear]  
Why

**RI MS HD/15/e, p. 017**

17  
Thy lips in form like moving clouds  
Were ruddy as the coming sky  
Thy lips in colour scarce  
can vie  
Een with the late autumn  
red rose  
[unclear]~~xxxx~~[/unclear]  
Thy hair in so rich  
wildness flows  
Grey is thy humid eye

**RI MS HD/15/e, p. 018**

~~And yet I love thee~~ thy breast  
No [unclear]xxxx[/unclear] luxuriance swells  
thy breast  
~~In Nature We now perceive~~How is the change of ~~Natures~~ all created forms  
1st. Introductory & plan of the course.  
2. On the foundations of experimental Science  
3. On the natures of the deductions from it  
The unequal efforts of early genius  
the smoke & bright flame of Wood  
when first heated. Its steady &  
vivid light afterwards.  
Like the leaves that are green.  
in the spring & the summer.

**RI MS HD/15/e, p. 019**

19  
but become bright & red on  
the approach of Winter. –  
– The Visionaries of Greece  
& the later specialists are  
like Men who should attempt  
to ~~leave~~ [insertion]build[/insertion] Monuments as magnificent  
[insertion]& as permanent[/insertion] as the temples of Rome  
with no other material  
than ~~clay~~ dust. –  
They resemble the Architect  
Who forms his plan for  
a building without examining  
his materials –  
– The Men who begin with  
speculation & end with  
facts [deletion][unclear]xxx[/unclear][/deletion] begin at the

**RI MS HD/15/e, p. 020**

wrong end; the firmest  
~~found~~ materials should  
be in the foundations  
the embellishments should  
be made after the  
structure is compleated. –  
The river seldom becomes  
clearer in passing through  
a cultivated country but  
its waters are made  
more fertilizing. –  
– Facts & the History of  
facts are as immutable as  
Nature. –  
The ancient Systems which  
Are [deletion][unclear]xxx[/unclear][/deletion] destroyed please us

**RI MS HD/15/e, p. 021**

21  
The Youth of Talents seldom  
produces any thing very excellent  
till He has been buffeted  
Somewhat in [Ink sketch of a face in profile] the World;  
Our best ~~fruit~~ [insertion]garden[/insertion] trees require  
much pruning ~~before their~~  
~~produce fruit becomes of~~  
to make their produce good. –  
by their ~~ruins~~ [insertion]remains[/insertion] as some  
Buildings become only  
interesting in ruins. –  
The Systems founded after  
Prejudices; may now amuse us  
the ancient temples were  
designed for ends degrading  
to humanity; but then ruins

**RI MS HD/15/e, p. 022**

delight the imagination  
& We admire the powers  
by which they were formed. –  
[Horizontal rule]  
– . The opinions which result from  
passions are as the impressions  
made by waves upon the  
land what one Tide  
produces, the next modifies  
or destroys,

**RI MS HD/15/e, p. 023**

23  
1685 Beccher died 1645  
[otherwork\_179]1605[/otherwork\_179] [person\_124]Bacon[/person\_124] **Gellert's metallurgie**

Chemistry by JS  
Becker 1776  
Gassendi 1592  
Gallileo 1593  
Falconer on Mankind  
M 81 Dilly  
[unclear]**De Pauar**[/unclear]  
[insertion]Agricola 1494[/insertion]  
~~Nature has done her best for thee~~Nature has [unclear]done[/unclear]

**RI MS HD/15/e, p. 024**

1st – Use of Analysis  
2. – In Mineralogy  
3. – In Geology  
4. – In the Arts  
5. A subject which ought to  
be studied by Gentlemen &  
in its results not unworthy  
the Attention of Ladies. –  
6. Founded upon a Knowledge  
of the laws of Attraction  
simplest decomposition by Heat  
7 By reagents general facts  
of Attraction –  
Conclusion.

**RI MS HD/15/e, p. 025**

25  
– It is by the application of  
reagents that all the  
phaenomena of decomposition  
are produced. –  
But the Methods are  
capable of being almost infinitely  
diversified. –  
And in all most all cases  
of new investigation new phaenomena  
are discovered. –  
– The effects of the laws of  
chemical action are almost  
infinitely diversified; &  
yet all are capable of  
being arranged as general

**RI MS HD/15/e, p. 026**

truths.  
This is an important  
fact both for those  
who wish to study the  
subject either for amusement  
or for use, for  
information or for  
discovery. –  
In following processes apparently  
the same interesting differences  
will occur such as Keep  
the mind in activity  
such as oblige it to  
discriminate. –  
– There is no limit fixed

**RI MS HD/15/e, p. 027**

27  
To ~~the xxxx xxx of this~~  
department of Science.  
–. The new generation of  
Chemists will not cannot  
be contented to imitate  
the processes of their Masters;  
the Hope of discovery can  
Scarcely pass away from  
them its progress is  
insured both by Nature  
& by Art & its refinements  
depend upon & are produced  
by time. –  
It was said of the  
ancient Tales that in passing

**RI MS HD/15/e, p. 028**

into a new country. –  
It is needless for us to again  
say that in Science &  
in the Arts; there is a  
dependence which ~~when~~  
[unclear][deletion]xxx[/deletion][/unclear] ~~it~~ can be traced  
is the source of their progression  
& importance – In a well  
organized country, [unclear][deletion]xxx[/deletion][/unclear] power  
is always compound  
Archimedes could not have  
made machines which frightened  
the Roman Soldiers without  
the assistance of Good Carpenters  
[insertion]& good workers in metals.[/insertion]  
But the tendency even of

**RI MS HD/15/e, p. 029**

these pursuits is not limited

[deletion]to their [unclear]xxxx[/unclear][/deletion]; –  
To speculative [unclear]their there[/unclear]  
minute researches into Nature  
are always laborious Hobbes  
has laid in his Leviathan  
that ~~Chemistry~~ [insertion]Experimental[/insertion] is a study fit  
for Blacksmiths & Cooks & yet  
this very man has endeavored  
to found himself a system  
of Chemical Science of  
which it may be said that  
it not fitted for Blacksmiths  
& Cooks nor for any living  
Being. –  
[Ink sketches of pyramids]

**RI MS HD/15/e, p. 030**

It is principally by  
analytical labours that  
Mineralogy has received  
the form of a Science  
& that our notions  
concerning the elements  
that enter into Rock  
composition of our rocks  
have been examined  
& elements at least  
as important as those  
existing in the Atmosphere  
brought to light  
Combustion is a process  
which [unclear]has[/unclear] & naturally

**RI MS HD/15/e, p. 031**

31  
arrest the attention  
& hence the theory of Lavoisier  
has had so great &  
so various applications

**RI MS HD/15/e, p. 032**

An account of some experiments  
on a [deletion][unclear]xxx[/unclear][deletion] mineral substance  
from Devonshire.  
The first specimens of  
this substance were sent  
to D[superscript]r[/superscript] Babington by D[superscript]r[/superscript]  
Wavel of Barnstable  
It is found filling  
the cavities of Schist  
in a quarry about  
6 mines from Barnstable

M[superscript]r[/superscript] Hatchett who  
at the desire of  
D[superscript]r[/superscript] Babington visited  
the place in which

**RI MS HD/15/e, p. 033**

33  
it was ~~found has i~~nformed  
~~me~~ discovered considered  
the Shist as of the  
soft clayey kind or  
the Schiefer Thon  
of Werner. ~~In the~~  
~~[speci]~~ Amongst the  
specimens that I  
have in my possession  
~~the Rocks &~~ ~~xxx~~of ~~its~~ ~~xxxx~~ the native  
Rock some approach  
to argillaceous Shist; but  
~~&~~ one variety is sufficiently  
hard to strike fire  
with steel.

**RI MS HD/15/e, p. 034**

The fossil so much  
resembles the Zeolite in  
its external character  
that it was at first  
referred to that species  
but Mr Hatchett suspected  
from its ~~charac~~ geognostic  
character that it could  
not belong to it &  
Dr Babington

**RI MS HD/15/e, p. 035**

35  
This fossil was discovered  
by Dr Wavel in a Quarry  
near Barnstable. According  
to Mr Hatchett who visited  
the place in 179. it  
is imbedded in cavities  
of a rock of soft argillaceous  
shist. When first made  
known it was considered  
as a Zeolite; [insertion]&from its geognostic relations[/insertion] ~~but~~ ~~its~~  
[insertion]Mr Hatchet concluded that[/insertion]  
~~peculiar nature~~  
[insertion]this could not be the case &[/insertion]  
Dr Babington ~~first~~  
ascertained ~~its peculiar~~  
~~nature &~~ its ~~peculiar~~  
nature. from its  
general physical characters

**RI MS HD/15/e, p. 036**

[insertion]& from ~~xxxx~~ some expts on its[/insertion]  
& its solubility in the  
[insertion]solution – made at his request[/insertion]

Acids ~~without producing~~   
[insertion]by M[superscript]r[/superscript]Stockler[/insertion]

a ~~gelatinous~~ appearance  
~~He~~ concluded that it  
was a new mineral  
body & suspected that  
it consisted principally  
of Alumine. –  
~~This Gentleman~~  
It is to Dr Babington  
that I am obliged for  
the opportunity of

investigating its nature  
more fully. That Gentleman  
furnished me with the  
specimens which [insertion]I[/insertion] [unclear]exployed[/unclear]

**RI MS HD/15/e, p. 037**

37  
& engaged me to undertake  
an analysis  
[unclear]last[/unclear]  
~~Truly sixteen springs have seen thee~~

~~rise  
With Beauty beaming in thy eyes  
And sixteen summers now~~ have  
given  
[insertion]To – E –[/insertion]  
~~Thy form the perfectness of heaven~~\*2  
I saw thee ~~once~~ [insertion]first[/insertion] as if a flower  
opening beneath an April shower  
~~Then you~~ [insertion]blooming Heath[/insertion]  
~~I saw~~ ~~thee~~ ~~once~~ When loveliness  
Did ~~all~~ [insertion]~~all~~[/insertion] [insertion]all[/insertion] ~~your~~ form & features  
When you [insertion]were[/insertion] [unclear]~~xxxx~~[/unclear] yet [insertion]a growing[/insertion] ~~a little~~ child

[insertion]~~growing~~[/insertion]   
At which each passing stranger  
smiled.–  
And stopped with Kindest joy to  
trace [insertion]~~gaze~~[/insertion]  
~~So witching were thy childish ways.~~[insertion]~~was thy form & face~~[/insertion]  
 ~~2 trace~~  
The [insertion]witching features[/insertion] ~~wayward beauty~~ of thy face

**RI MS HD/15/e, p. 038**

~~I knew thee once a raptured~~ being!  
~~By then pursued yet all men~~  
~~feeing~~  
~~Again~~  
~~When fifteen springs had seen thee~~  
~~rise~~  
~~With beauty [insertion]pleasure[/insertion] beaming in thy eyes,~~  
~~When fifteen summer suns had~~  
~~given~~  
~~Thy charms the perfectness of~~  
~~Again I knew you [insertion]saw heaven[/insertion] [insertion]then how[[/insertion] wayward~~

~~being~~  
~~By them pursued yet all men~~  
~~fleeing.~~  
~~2~~  
~~I sought thee [unclear]xxxx[/unclear] in [unclear]xxxx xxxx[/unclear] in~~

~~[insertion]felt love[/insertion]~~  
~~I woed thee what boyish love [insertion]passion[/insertion]~~  
I [unclear]xxxx[/unclear] I will still complain,  
~~[insertion]But never ow[/insertion]~~  
I will not own myself his slave;  
[unclear]~~xxxx xxxx~~[/unclear] ~~my~~ [unclear]~~xxxx~~[/unclear] [unclear][insertion]~~xxxx xxxx~~ [/unclear][/insertion] false  
But name my care in [unclear]xxxx xxxx xxxx[/unclear]  
And I bear it with me to the  
grave  
~~And though~~  
~~My passion I will never disclose tell  
And warm me in the Arms of death  
Yet it shall ever fill my heart.~~

**RI MS HD/15/e, p. 039**

39  
~~Even the mild western breeze~~

~~then raised~~  
~~Thy cheek to such a warmest hue~~  
~~In thy fair cheek so bright a hue~~  
I  
Thy Spirit surely springs from heaven  
When first I saw thy stately form  
~~With every grace of motion~~   
With every grace of motion warm  
~~It may~~  
To see my ~~form~~ [insertion]~~cheek~~  form[/insertion] its freshness

lose  
~~May some~~  
Ah ~~will~~ [insertion]may[/insertion] it not his pity move  
And when my humid eye He views  
He sure must know it beams

with love.

**RI MS HD/15/e, p. 040**

~~Yet sure my faded form xxx~~ tell [insertion]will prove[/insertion]  
~~A mind~~  
He views  
And when ~~He views~~ my humid eye  
Sure He must feel, it beams  
with love  
~~Who gave xxxx my trembling~~  
~~heart~~  
1  
In vain, the tears of anguish flow  
~~In him I still must vow  
In vain my cheek is full with~~  
woe,  
In vain, I hope, In vain I sigh  
~~For He shall never~~ [insertion]~~xxxx will perhaps will never~~[/insertion]  
~~Known~~

That I ~~xxxx him~~ must live [insertion]for him[/insertion] or die  
The ~~xxxx~~  
~~never shall my lips the tale~~  
disclose  
~~My words the tale shall neer~~In secret I will still complain  
My tale shall never ~~xxxt~~ [insertion]reach[/insertion] his ear  
In secret nourish [unclear]xxx[/unclear] all my care  
I will not ~~feel~~ [insertion]meet[/insertion] his proud disdain

**RI MS HD/15/e, p. 041**

41  
It is principally in consequence of  
improvements made in our Instruments  
of experiment that the Sciences  
have been so much extended  
& that they have been made  
the common property having  
inclinations for studying them  
& patience for pursuing them. –  
Doctrinal speculations at  
present cease to be formidable  
in their influence; & variety  
of opinion & ~~of the~~ freedom  
of thought can only produce  
benefits in a department  
of Knowledge where the  
appeal is to Nature &  
with [insertion]lofty[/insertion] pride [unclear]~~xxxx~~[/unclear] meet his ~~high~~ disdain

**RI MS HD/15/e, p. 042**

where there ~~is no~~ can  
be no fair decision without  
the evidence of present  
facts.–  
–The demonstrations  
belonging to Analysis are  
~~of in nature as rigid~~founded upon invariable  
properties of things; &  
the results of experiment  
must always convey  
truths which though not  
ultimate, owe their  
imperfection not to  
defect in our methods

**RI MS HD/15/e, p. 043**

43  
but in the defect of  
our sensations. –  
It is possible that  
even on this point new  
instruments may be discovered  
there is sufficient to occupy  
the genius & industry of  
Philosophers for years to come.  
This department of  
Knowledge is one which  
even [unclear]~~xx~~[/unclear] coincides with  
the common ideas of utility  
the discovery of the nature  
of the productions of  
the globe & their applications

**RI MS HD/15/e, p. 044**

This argument however is  
but little worthy of being  
pursued. –

**RI MS HD/15/e, p. 045**

45  
– ~~The Sciences~~  
The ~~experimental~~ [insertion]Natural[/insertion] Sciences  
have one common foundation  
facts which are observed  
in Nature or ~~procured by~~  
~~means~~ developed by artificial  
inventions.  
Experimental researches  
have led to the greatest  
discoveries made in modern  
times for by mere  
contemplation of events  
extensive truths are seldom  
gained. The senses are imperfect  
they need assistance to enable  
them to discover truth  
& ~~by~~ active enquiry by  
the trials of results seems

**RI MS HD/15/e, p. 046**

to be that which is best  
fitted ~~for~~ to our nature  
& to the devellopement  
of truth. –  
– The Theories of natural  
Knowledge which present  
so beautiful a series of  
combinations to the mind  
have been slowly formed  
by great industry & varied  
Labour; & though the  
methods which lead to  
discovery are sometimes  
unjustly neglected after  
the discovery has been  
made yet, they ought

**RI MS HD/15/e, p. 047**

47  
in all cases to  
claim the attention  
both of those who  
study with the  
hope of inventing  
something new  
& of those who  
wish to make  
themselves acquainted  
with the knowledge  
already acquired

**RI MS HD/15/e, p. 048**

**[blank page]**

**RI MS HD/15/e, p. 049**

49  
We do not sufficiently  
consider those feelings  
which great Men experience  
without wishing to express  
without being indeed  
able to express, such  
must have been the feeling  
of Newton when He made  
his great discovery. –  
– I have  
I am fond of reading  
romances, I have  
been lately exceedingly amused  
by reading the French  
Encyclopedia. –  
[Ink sketch of a face in profile]

**RI MS HD/15/e, p. 050**

[deletion]In vain have I swore I will[/deletion]  
[deletion]love her no more[/deletion]  
[deletion]She torments She perplexes[/deletion]  
[deletion]yet still I adore. –[/deletion]  
[deletion]Her faults with her ~~virtues~~ [insertion]virtues[/insertion][/deletion]  
[deletion]so strangely combine[/deletion]  
[deletion]~~But I love~~ [insertion]I admire[/insertion] Her ~~the~~ more[/deletion]  
[deletion]the more[/deletion] I refine  
\*3 Her form is a fairys  
Free graceful & light  
Her looks as the ~~first~~ leaves  
of the ~~Aut~~ Autumn are  
bright  
And soft is the light  
that ~~falls~~ [insertion]beams[/insertion] from her eye  
As that of the

**RI MS HD/15/e, p. 051**

51  
Rainbow seen in the  
blue sky  
And like that mild  
light though placid  
& clear  
It speaks of the  
coming of many a  
tear.  
As the wave of the  
Sea uneven her mind  
When moved by the  
breath of the westerly  
wind.  
As bright & as changeful  
its colours are given  
Now darkened by Earth  
& now glowing with heaven

**RI MS HD/15/e, p. 052**

Like the feverish day  
Of the summers storm. –  
Her bosom by turns  
is chilly & warm. –  
Short is ~~anger~~ her  
Rapture and transient  
her sorrow. –  
She lives for the moment  
& and fear not tomorrow.

[Horizontal rule]

**RI MS HD/15/e, p. 053**

53  
I love ~~thee now, in doubt~~ in  
[unclear]~~xxx~~[/unclear] care  
With feelings leading to despair  
~~I then a happy careless~~  
~~boy:~~  
\*2 I loved thee then a careless  
boy.

~~look~~  
In [insertion]quiet[/insertion] hope in [insertion]simple[/insertion] ~~rapture & in~~  
joy.  
I loved thee as the

I loved the sea  
On which the [insertion]beams of[/insertion] morning ~~beams~~  
~~did~~ play  
Or as the bright full moon  
on high  
In the [insertion]blue &[/insertion] frosty sky  
Or as the Summers balmy  
breeze  
Or as the Autumns tinted  
trees –

**RI MS HD/15/e, p. 054**

Or as the lightnings [unclear]~~xxx~~[/unclear]  
~~by beauteous blaze~~  
At which I tremble  
as I gaze. –  
[Pencil sketch of a face in profile]

**RI MS HD/15/e, p. 055**

55

[deletion]You [unclear]once[/unclear] a [/deletion]  
~~Your charms have changed~~  
~~Ten summers since have~~  
~~passed away~~  
Since that [deletion]fair [insertion]bright[/insertion][/deletion] & [insertion]well remembered[/insertion] [deletion][unclear]revred[/unclear][/deletion] day  
Ten [insertion]~~winters~~ summers[/insertion] [deletion][unclear]xxx xxxxxx[/unclear][/deletion] now have  
passed away.  
And full matured time  
has given  
Thy charms “the perfectness  
of heaven”  
How [insertion]art thou[/insertion] [deletion][unclear]xxx days[/unclear][/deletion] changed

What majesty  
Does in thy ~~changeful~~ [insertion]varied[/insertion]  
features lie”  
And those who dare behold  
thy face  
Are awed by dignity of grace. –

**RI MS HD/15/e, p. 056**

I love thee still but love in  
[unclear]~~xxx~~[/unclear] care  
In troubled rapture mixed  
with fear.  
[deletion]I love thee [unclear]xxxx[/unclear] foaming[/deletion]  
~~wave~~  
~~Which may become~~  
~~the Seamens~~

~~grave~~

~~I love thee as  
Or~~ [insertion]or[/insertion] ~~as~~ the lightnings blaze  
Or as the lightnings [deletion][insertion][unclear]xxxxxxx[/unclear]/insertion][/deletion] awful blaze  
last At which I tremble  
as I gaze. –  
I love thee as ~~I love~~ the swelling

wave  
Which may become the seamans

grave

**RI MS HD/15/e, p. 057**

57  
[underline][unclear]xxxxxx[/unclear][/underline]  
Or as the sky [underline]in colour[/underline] warm,  
[insertion][unclear]warm[/unclear][/insertion]

yet breaking of the [insertion]rising[/insertion] ~~coming~~  
storm  
~~Like the sublime which Nature~~[deletion]In joy in [unclear]xxxx xxxx[/unclear][/deletion]  
[deletion][unclear]xxxx xxxx in xxxxx xxxxx[/unclear][/deletion]  
[underline]Or as the[/underline] sky  
[underline]when breaking storms[/underline]  
[Ink sketch of a face in profile]  
[Ink sketch of a figure in profile]  
or ~~in the~~ sky  
in colour warm  
yet breaking of  
the coming storm

**RI MS HD/15/e, p. 058**

[underline]To Alba[/underline]  
The colour of thy cheek is pale  
As the fair fleecy mists that lie  
Upon the meadows chilly breast  
Adown the watered vale  
2  
Thy lips in colour scarce can  
vie  
Een with the late Autumnal  
rose  
Thy Hair in no rich wildness  
flows  
[deletion][unclear]xxx[/unclear] is thy [unclear]xxxx[/unclear] eye.[/deletion]  
  
Grey is thy humid eye.  
3  
~~Ah who shall tell me why~~

~~I love  
And why for thee in care I pine~~  
[deletion]Ah none [unclear]xxxx[/unclear] can tell; for none can[/deletion]

~~prove~~

**RI MS HD/15/e, p. 059**

59  
And yet try fairy lineaments  
Still visits all my nightly dreams  
And interrupts my daily schemes  
And robs me of content. –

~~Ah why not thou to me unknown~~  
Oh could my spirit winged [unclear]xxxx[/unclear]  
flame  
[deletion][unclear]xxxx xxxx[/unclear][/deletion]  
~~Oh think me neither cruel~~ or  
unkind  
~~Spirit of Genius, thou~~  
Ah though thy form to me is  
all unknown  
~~Thy potent Genius~~ I with reverence  
own

**RI MS HD/15/e, p. 060**

Oh let in tears and holy sympathy  
Still dwell within thy bosom  
But thy Heart  
Cherish the loveliness of living  
things  
And sometimes turn thy memory  
unto me  
And let thy potent Genius  
raise the song song  
Of Nature How many  
Oh think not that my

heart has  
ever cherished  
One thought

**RI MS HD/15/e, p. 061**

61  
Oh why art not thou - unknown  
why is [underline]thy[/underline] [deletion][unclear]xxxx[/unclear][/deletion] song  
The only  
~~But what can be more lovely & more fair  
Than that soft blush which warms thy cheek~~The [unclear]xxx[/unclear] secret source of every  
fountain  
That wildly tumbles down the  
mountain  
Should to our ~~wondering~~ [insertion]silent[/insertion] hands  
be shown  
Though to the wondering world unknown. –

**RI MS HD/15/e, p. 062**

Kiss for moments; years of  
[underline]sorrows[/underline]  
.– He has enslaved thee  
as the Mountain chain  
and loves the mist by which  
at once it is cherished &  
nourished

**RI MS HD/15/e, p. 063**

63  
Some of those speculations  
formed upon insulated facts  
brings to my mind  
a narration, an  
ingenious person had  
made a system of  
Geology, in which He  
attempted to shew that  
all rocks & soils  
were the produce of  
alluvions.- - & He founded  
his reasoning upon the facts  
of the Gravel pits of Kensington  
where only he had studied  
geology - .

**RI MS HD/15/e, p. 064**

~~And yet my~~

[insertion]1[/insertion]  
In vain the tears of ~~anguish~~ [insertion]sorrow[/insertion] flow  
In vain I hope, in vain I sigh  
For He perhaps will never know  
That I must live for him, or die

[insertion]2[/insertion]  
~~In~~ [insertion]Shall I[/insertion] secret I will still ~~still~~ complain  
[insertion]or,[/insertion] [deletion][unclear]xx[/unclear] ever own myself his slave[/deletion]  
But name my care in feigned  
disdain  
And bear it with me to the grave  
.3.  
Yet purely in my faded form  
~~He must~~ [unclear]~~xxx~~[/unclear] [insertion]tints][/insertion] trace of anguish ~~will~~ [insertion]must[/insertion] faid  
~~Thee take~~ [insertion]marks[/insertion] of ~~sorrow~~ He [unclear]xxxx[/unclear] read  
And if his heart like mine is warm.  
~~Will~~  
More sympathy may make him  
kind.  
To see my cheek its freshness  
Ah will it not his pity [insertion]lose[/insertion] move  
And when my humid eye He views  
He sure must feel it beams with  
love. -

**RI MS HD/15/e, p. 065**

65  
Softness  
Tears.,  
[unclear]~~xxx~~[/unclear] bless  
grief p  
Then with a gentle voice  
you censure spread  
And spare the living though  
you blame the dead.-

**RI MS HD/15/e, p. 066**

brighten before they die assuming  
“Brown’s Theory” – the stimulus  
or the exertion may be the  
cause of the final debility

**RI MS HD/15/e, p. 067**

67  
is it possible to  
As if [underline]Raphaelle[/underline] in  
one of his pictures had  
introduced by the side  
of the Virgin [unclear]~~xxxxx~~[/unclear]  
& our Saviour [insertion][unclear]~~a~~[/unclear] Mountebank[/insertion] ~~had introduce~~  
“The ludicrous is easily  
understood, & narrative always  
demands less skill,  
Excess of ornament allways  
proves bad. “The leaves assume  
more vivid colours before they  
die – ­“What can be more  
natural than that people should

**RI MS HD/15/e, p. 068**

-The great facts that Newton  
discovered have now become  
the property of the public,  
& though all the labour  
which this great Man  
employed has not fortunately  
fallen to the lot of all  
yet the benefit is immense,,  
– What a picture does this  
man offer to us, how  
beautiful how grand untouched  
by Ambition, He gave up

his days to the discovery of  
truth. ~~That~~ We are  
delighted with the thoughts  
of the Academy of Athens

**RI MS HD/15/e, p. 069**

[unclear]ally[/unclear] when they are  
connected with absolute  
utility  
If darkness becomes  
familiar & even pleasant  
to the Mind by habit  
shall not the glorious light be  
more delightful; – [unclear]He[/unclear]  
them who have been confined  
to their dungeon will not  
[underline][deletion][unclear]mainly[unclear][/deletion][/underline] be glad to return  
to it or at least  
the free Son of the  
slave will not desire to  
wear his fathers chains.-

69

**RI MS HD/15/e, p. 070**

It is only by making  
truths popular that their  
existence can be ensured  
Books may be destroyed  
a new [unclear]Omar[/unclear] may  
arise in a new emperor  
& all things may fall  
but prejudices conquered  
cannot be reestablished  
And if errors gain  
power from habit  
& from the length of  
time that they exist  
truths will not easily  
be forgotten more [unclear]espec[/unclear]

**RI MS HD/15/e, p. 071**

71  
every charm.  
do bear a heart with  
every virtue warm.  
The Rock which resists  
the waves does not  
partake of the tumult  
of their motions –

**RI MS HD/15/e, p. 072**

Thou blooming wonder of Hygeian  
power  
Fair as the bud beneath the  
vernal shower,  
When the mild Zephyrs from the  
ocean blows-  
With joy in health I see thy  
features glow  
With every infant grace I see thee rise  
Whilst pleasure sparkles in thy infant  
eyes  
Long mayst thou live & as

thou livst improve  
In all that wakens kindness  
hope & love & love  
To earth from art & nature

**RI MS HD/15/e, p. 073**

73  
azure eyes.  
How could a politician be secure  
who dreaded the Aqua Tofana  
[Pencil sketch of a face in profile]   
How could the  
merchant be secure as long  
as the idea of [unclear]Alchemical[/unclear]  
With Science  
Much has been said  
concerning the effects of  
Science in making  
people superficial & pedantic  
It is now become the fashion  
to say that the earth is  
round

**RI MS HD/15/e, p. 074**

Rise Zoe rise ~~in health~~ [insertion]in beauty[/insertion]  
~~& beauty~~ [insertion]& with feeling[/insertion] warm  
So firm a heart  
with [unclear]xxxx[/unclear] our true worth  
Long must thou live  
In beauty improve  
And as thou livest  
In all that wakens  
kindness hope & love  
With every infant [deletion]charm[/deletion] grace

I see thee rise  
Whilst pleasure  
sparkles in thy

**RI MS HD/15/e, p. 075**

75  
Fair  
New blooming wonder of  
Thy fathers power  
Fair as the bud beneath  
the ~~summers~~ [insertion]vernal[/insertion] showers  
When the mild Zephyrs  
from the ocean blow  
With joy; in health  
I see thy features  
glow  
Radiate from Art &  
Nature every charm

**RI MS HD/15/e, p. 076**

[Geological pencil sketch]

**RI MS HD/15/e, p. 077**

7  
most people took care  
only of themselves, but  
that for her part, She  
would take care of  
her family

[Horizontal rule]

**RI MS HD/15/e, p. 078**

My Mothers genius &  
her feeling heart  
My fathers strength  
& mortal energy  
That chills [unclear]xxxxxx[/unclear]  
Keeps  
its vital Heart  
[unclear]within[/unclear] it Yet He enslaved her  
as the mountain mists ~~is~~  
~~by the~~ by the mountain  
The old Woman who  
in the fire of London  
being uncommonly busy  
in stealing said  
that in such a case

**RI MS HD/15/e, p. 079**

79 Spirits of woods & waters  
powers divine  
The diminution  
of temperature  
occasioned  
by a snow cloud  
can only be  
assigned to  
Radiation

**RI MS HD/15/e, p. 080**

[underline]Much ornament[/underline] [deletion]is[/deletion]  
attached to opinions  
proves they are sickly  
the leaves [deletion]faded[/deletion] upon [insertion]look more brilliant[/insertion] the  
[deletion][underline]trees[/underline][/deletion] [insertion]& beautiful[/insertion] before [underline]they die.[/underline] –  
If the mathematical Sciences  
are efficacious in their power  
of strengthening the Reason &  
refining the judgment, the Chemical  
ones are still more efficacious  
because they approach nearer  
to the facts of common life  
[deletion][unclear]book the[/unclear][/deletion]

**RI MS HD/15/e, p. 081**

81

82. [insertion]High Street[/insertion] Marylebone  
In vain the tears of sorrow flow  
In vain I hope, in vain I sigh  
For He perhaps will never know  
That I must live for him or die  
[Horizontal rule]  
[deletion]Shall his secret [unclear]xxxx[/unclear] complain[/deletion]  
[deletion]Still [unclear]even work[/unclear][/deletion]  
[deletion]Still unknown shall I complain[/deletion]  
[deletion]Shall I still 2[/deletion]  
Shall I unnoticed still complain  
Or what I am ~~to h~~  
at once display

**RI MS HD/15/e, p. 082**

must pursue the Analy[deletion]sises[/deletion] as  
a guide, Analogy & observation  
We must take for our  
lights. –  
In this point of View the  
Science is perhaps most  
important. –  
In the Arts for the  
increase of National  
Riches & commerce. Instance  
in [underline]Wedgwoods Manufactory[/underline]  
Methods of Analysis  
Laws to be observed  
Methods consist in destroying  
attractive power  
Accuracy of Synthesis

**RI MS HD/15/e, p. 083**

83  
represent positive quantities  
a certain stone such for  
instance as the Ruby is  
uniformly composed of alumine  
& silex; Here the external  
character is the guide  
to an important fact.  
– In the infinite variety  
of the mineral kingdom  
a classification has been  
made & chemical Analysis  
& mineralogy have followed  
each other with rapid  
steps. –  
In Geology ~~b~~y Experiment  
is the only path Here We

**RI MS HD/15/e, p. 084**

any sensible change of composition,  
~~In~~ the infinite varieties of  
Carbonate of Lime the  
[unclear][deletion]Miner Chem[/deletion][/unclear] which afford  
to the [unclear]miner[/unclear] Crystallograph

er  
so much room for speculation  
are to the analyst.  
to the Oeconomical Philosopher  
& to the mineralogist nearly  
the same & is found  
the same in bodies fundamentally  
different. –  
It is therefore not  
the characteristic character.  
In ~~the~~ Chemical  
Mineralogy; all the bodies

**RI MS HD/15/e, p. 085**

85  
The classification founded upon  
the forms of chrystals is  
little more accurate though  
susceptible of the most  
beautiful applications  
Not even the Genius of  
Hauy has been sufficiently  
powerful to establish it  
as a mineralogical  
character & what is  
called the “primary form”  
that which ought to  
be invariable & characteristic  
often changes without ~~the~~  
[deletion]slightest changes &[/deletion]

**RI MS HD/15/e, p. 086**

work of Philosophical Mineralogy  
& He determines that no  
other characters should be  
admitted but those which  
are inalterable & independent  
of chance [underline]or[/underline] accidental  
combinations.- These characters  
can only be chemical  
for the Labours of the  
great Master of the German  
School have proved that  
all others are variable  
& that it is only from  
their combination that  
the species can be determined

**RI MS HD/15/e, p. 087**

87  
similarity of composition - The  
person who has been accustomed  
to compare the external  
qualities of bodies with the  
results that they give  
when submitted to experiment  
is most of all capable  
of ascertaining the mineralogical  
species –  
The enlightened Dolomien; whose  
death Philosophy will long  
deplore traced – with the  
hand of a Master; the  
path which Mineralogists  
ought to pursue in his

**RI MS HD/15/e, p. 088**

marry after your own fancy. You must  
keep them much in the World  
[Ink sketch of a portico]  
As the leaves assume  
more vivid colours before  
they die.-  
[Ink sketch]  
It is upon this part  
of Chemical Science that  
Mineralogy is in a great  
measure founded By the  
invariable & constantly operating  
Laws of chemical affinity  
We learn that similarity  
of properties in bodies imply

**RI MS HD/15/e, p. 089**

89  
to our senses; & that  
a pyramid represents  
a ray of the divine  
fire – see Eusebius  
Prep. Evang: 11 6 111. 7 &11

-  
It seems most probable  
that the mythology of  
the greeks was a very  
heterogeneous collection:  
Danaus. Cecrops – Cadmus  
[unclear]Phem[/unclear]: Orpheus Thrau.-  
Excellent observation of  
Grew; that if you  
wish children to

**RI MS HD/15/e, p. 090**

To attempt to explain all  
the vague opinions which then  
have adopted would be a  
useless labour, to draw  
Mystery out of Mystery is  
of little use, Of what avail  
were the elaborate disquisitions  
of Porphyry the great  
Apologist for the pagan  
superstitions – He thought  
He could prove that  
the worship of the  
Basaltic idols [deletion]of [unclear]x[/unclear][/deletion]   
or black stones signifies  
[deletion][unclear]xx[/unclear][/deletion] that the divine  
Nature is imperceptible

**RI MS HD/15/e, p. 091**

91  
conjectures of modern  
speculation, [deletion]we[/deletion] a similar disposition  
is found towards imperfect  
generalizations – The mind rests  
satisfied with conjectures; the  
most fertile imagination devellopes,  
the most interesting views;  
but facts & the real order  
of things are in general  
disregarded or what is worse  
misinterpreted for the purpose  
of serving the views of a [unclear]partisan[/unclear]  
[/deletion][unclear]xxxxxxxxx[/unclear][/deletion] ..– arrangement  
of words…

**RI MS HD/15/e, p. 092**

-

[deletion]On certain[/deletion]  
On Basalt & some congenerous  
Rocks. –  
…. Few subjects have been  
more generally discussed in Philosophical  
Systems, from the days of Hesiod  
to the present times than  
the formation of the Globe.  
–. In every general Philosophical  
theory advanced by human  
Ingenuity or labour. Cosmogeny  
has formed a part – Whether we  
examine the wild suppositions  
of the Dogmatists of Egypt  
India & greece, or the  
more refined hypotheses &

**RI MS HD/15/e, p. 093**

93  
Remarkable arrangement  
of Granitic Rocks  
Cornwall – The [underline][unclear]Carns[/unclear][/underline]  
[Geological sketch in ink]

**RI MS HD/15/e, p. 094**

Primitive Shist Aspect. L. Lomond.  
[Geological sketch in ink]

**RI MS HD/15/e, p. 095**

95  
Limestone of Arkendale is   
analogous to that of  
the tees the sketch made  
from memory shows its  
stratification  
[underline]‘Sientitic Aspect[/underline]  
[underline][unclear]Cobler[/unclear] near [unclear]Arrogicas[/unclear][/underline]  
[Geological sketch in ink]

**RI MS HD/15/e, p. 096**

miles from Arkendale &  
is [unclear]xxxxx[/unclear] by a hush  
sketch from [underline]memory[/underline]  
[Geological sketch in ink]  
The [underline]Barytes[/underline] is found in  
Dodecahedrons principally &  
in the common fibrous form.  
the bed is remarkably soft  
it is with lead & the  
sulphates.  
– The general metalliferous

**RI MS HD/15/e, p. 097**

97  
At Arkendale in Yorkshire.- The  
Country. Secondary – And the  
strata in some measure analogous  
to those in tees dale except  
that no vein has been cut  
through. great lead bearing Veins  
from east to West & curved  
[Horizontal rule]  
& diminish downwards so as  
to be lost at a considerable  
depth they are in limestone  
still but they have likewise  
been found in sandstone  
The great metalliferous  
Vein bearing the Carbonate  
of Barytes is about 2

**RI MS HD/15/e, p. 098**

[deletion]At Arkendale[/deletion] [underline][insertion]Vein at Arkendale[/insertion][/underline] of which  
[underline]a side is bare, & from[/underline]  
[underline]which the limestone[/underline]  
[underline]strata on one side[/underline]  
[underline]have slipped at least[/underline]  
[underline]10 fathoms[/underline]  
[Geological sketch in ink]

**RI MS HD/15/e, p. 099**

99  
Some of the Carbonate of Lime  
of Veins appears very [underline]stalactical[/underline]  
The Carbonate of Barytes of  
Northumberland is Chrystalized  
in lenticular forms. – & is  
found in the Veins in  
Nodules. –  
– The Veins are sometimes  
laid bare by what is called  
a [underline]Hush[/underline]. that is by causing  
a Mountain torrent to flow  
over the face of the Rock  
by which the discovery is  
made.

[Horizontal rule]

**RI MS HD/15/e, p. 100**

found from north to south.-  
Lead is the usual metal. Blende  
is generally connected with  
it & Iron forms a part  
of the gangue, Gossan or  
sides of the Vein –  
These are plate Veins analogous  
to the pipe Veins of  
Derbyshire. –  
Where a vein comes between  
two strata there is often  
a [underline]slip[/underline].  
[Geological sketch in ink]

**RI MS HD/15/e, p. 101**

101  
& Yorkshire near Alston Moor  
is stratified & the Rocks  
except the Win are congenerous  
The [underline]Veins[/underline] run through  
all the strata - They are  
of Quartz, fluor, Sulphate  
& Carbonate of Barytes &  
Carbonate of Lime – They  
are principally metalliferous  
when in the [unclear][underline]A[/underline][/unclear] Great  
Limestone strata. And  
the greatest Veins are  
from East to West;  
but now & then a  
metalliferous Vein is

**RI MS HD/15/e, p. 102**

The depth of the strata little  
& the thickness not more  
than a foot or a foot  
& half. –  
– Some of this Coal is  
very near the level which  
produces the Carbonate of  
Barytes which is at a Mine  
of Colonel Beaumonts. in Northumberland  
about 3 Miles from. Nant Head

nant  
The Carbonate is in the  
Metalliferous Limestone. with  
Sulphate of Barytes.  
– The whole aspect of the  
Country of Durham. Cumberland

**RI MS HD/15/e, p. 103**

103  
Shist or Hazel – Likewise  
above it. The Vein  
in Astone is not metalliferous  
but it is in [unclear][deletion]Dufton[/deletion][/unclear] in Yorkshire  
– Coal is found [insertion]in Alstone[/insertion] as low  
as 140 Fathoms. – Where  
the coal touches the Vein  
it is said to be rendered  
[unclear]weak[/unclear] of this I have a  
specimen from Cockfield Durham.  
– Coal abounds in Alstone  
Moor near the surface – but  
it is a peculiar species  
called crow or [underline]Cat Coal[/underline]  
it is upon silicious sandstone  
& below – Shiver –

**RI MS HD/15/e, p. 104**

plate 3 1/4 – Limestone Tumblers 3  
Great Limestone. 7. –  
The [underline]plate[/underline] means loose  
shiver – the sills [underline][deletion]mean[/deletion][/underline] [insertion]mean[/insertion]  
[deletion][unclear]sometimes[/underline][/deletion] sandstone – The fire  
stone is hard silicious sandstone  
– The great Limestone is generally  
in [underline]alstone Moor[/underline] at 100  
Fathoms. In Teesdale it  
is much lower & there  
are great varieties produced  
by Veins – The Win  
occurs in Alston Moor  
at the depth of 200 Fathoms.  
And below it is the hard

**RI MS HD/15/e, p. 105**

105  
[deletion]Veins [unclear]xxxxxx[/unclear][/deletion] [underline]Account of the strata[/underline]  
[underline]in Alston Moor. & Tees Dale[/underline]  
[underline]being a country of 20[/underline]  
[underline]Miles square.[/underline] –  
1. soil & gravel. 2 grandstone sill 47  
plate 107. Hazel & coal 47.  
Plate. 7. Fathom Plate 47  
Hazelsill 2. Upper Slate  
Sill 3. Plate 2 Under slate  
Sill 4. Hazel sill 1 1/2 / Coal 4  
with plate ./ Limestone & Iron  
Stone 6/ plate 11F. plate  
2. Little Limestone 1 1/2 Hazel  
~~plate~~. [insertion]Sill[/insertion] 1/2. Upper coal sill 1 1/2  
Coal. 1. Under coal sill [unclear]2[/unclear]

**RI MS HD/15/e, p. 106**

Near Eglestone Hall. is  
a seam of Coal [insertion]about 9 inches thick[/insertion] below Limestone  
& upon Sandstone very hard   
Shale is above the Limestone  
Sketch.  
[Geological sketch in ink]  
At a junction of two [unclear]beds[/unclear]  
of sandstone & limestone a  
Vein of lead; & the lead  
absolutely in the sandstone. –

**RI MS HD/15/e, p. 107**

107  
High Force  
[Geological sketch in ink]

**RI MS HD/15/e, p. 108**

On a second examination of  
the high force I am inclined  
to beleive that the appearance  
of the Dike in the Win is  
Owing merely to an eruption  
of the [underline]strata[/underline]. & that  
the vein has no win  
[unclear]sides[/unclear] of a peculiar Kind. –  
This certainly is the case  
in the lower Basalt. –  
1. The Basalt  
2 Shist  
3 Basalt  
4 Shist  
5 The limestone  
D. The Vein.

**RI MS HD/15/e, p. 109**

109  
[underline]Sketch of the Rocks at the[/underline]  
[underline]High force[/underline]

[Geological sketch in ink]

**RI MS HD/15/e, p. 110**

The calcareous spar was  
highly penetrated by [underline]pyrites[/underline]  
near its junction with  
[deletion]the[/deletion] [underline]shist[/underline]. – & between  
the shist & Limestone  
there was no distinct  
Transition. –  
– In the Basalt generally  
there [underline]were large[/underline] ferriferous  
[underline]Veins[/underline] & in general  
the Basalt from its  
decomposed surface which  
was of a yellow colour  
indicated much combined  
iron.

**RI MS HD/15/e, p. 111**

111  
the other Basalt; but its  
chrystals were not so distinct  
In it was a Metalliferous  
[underline]Vein[/underline] containing Blend &  
[underline]Galena[/underline] with Iron oxide.-  
the Gangue; Calcareous spar &  
Quartz. –  
–. [underline]This Vein[/underline] passed  
through all the strata; but  
the dike was lost in the  
Shist & [underline]Calcareous Stone[/underline]  
& in those Rocks it  
was not metalliferous  
being in the Limestone  
[underline]principally calcareous[/underline] spar

**RI MS HD/15/e, p. 112**

Below the shist is shell limestone  
blue & containing [unclear]oiler[/unclear] shells  
colulloid & veins of calc: spar  
In one heap of the Basalt  
a large Zeolite was found  
which shews it to be  
congruous with other Basalt. –  
– In the Basalt wave  
many veins of [underline]calcareous spar[/underline].  
– At the upper part of  
the force there appeared  
a species of [underline]Dike[/underline] in the  
great heap of [underline]Rock[/underline]. This  
Dike was of a firm texture  
& contained apparently  
more silicious matter than

**RI MS HD/15/e, p. 113**

113  
softer than the Rock. –  
At the high force the  
Tees is precipitated over  
in Basaltic Rock. of which  
the Arrangement is very  
interesting – . The Basalt  
rests in Shist; below  
the Shist is a second row  
of irregular columns ~~&~~  
Below this is Shist  
Where the Shist & Basalt  
meet there is a perfect  
transition the shist becomes  
hard like brass & the  
Basalt becomes fine grained &  
uniform.–

**RI MS HD/15/e, p. 114**

[underline]Veins in the basalt about[/underline]  
[underline]7. Miles above Eglestone on[/underline]  
[underline]the Tees[/underline]. –  
[Geological sketch in ink]  
The Direction of the Veins  
was various & their sides  
in many places a broken  
Basaltic dike through [deletion][unclear]xx[/unclear] the[/deletion]

**RI MS HD/15/e, p. 115**

115  
it is cut by veins which  
are of a softer Basalt  
or Grunstein & which  
in their centre contain  
calcareous spar & sometimes  
Quartz. –  
The Basalt in general  
is compact but in some  
places passes into truly  
chrystalized grunstein with  
large chrystals of hornblend  
– In many parts it is  
perfectly columnar, & near  
the Bridge some very  
distinct Hexagonal prisms.

**RI MS HD/15/e, p. 116**

[underline]Eaglestone[/underline] Durham Aug[superscript]t[/superscript] 26

[Horizontal rule]   
The bed of the Tees till about  
4 miles above Eglestone is  
Sandstone of a soft kind & carboniferous  
at Middleton Shele limestone  
forms the bed of the  
river it is in horizontal  
strata – in the west of the  
Tees about 6 miles above .E.  
Basaltic Rocks appear  
& rise to the height of  
6 or 700 feet – This Basalt  
forms [deletion][unclear]in this[/unclear][/deletion] the bed of  
the upper part of the  
river [deletion][unclear]xxxx[/unclear][/deletion] as high as  
the great waterfall

**RI MS HD/15/e, p. 117**

117  
Junction at [unclear]Secar[/unclear] point of the  
prim [underline]& secondary sandstone[/underline]  
[Geological sketch in ink]

**RI MS HD/15/e, p. 118**

Note in every Vein this it is to be  
enquired is it a Vein of Chasm  
ie a vein which fills up a  
space between two walls [underline]of Rock[/underline]  
[Geological sketch in ink]  
thus - or in it a hole vein  
which fills a simple orifice  
thus [Ink sketch]. When it is a Chasm  
Vein, it is to be noted  
what is its direction ie  
its general course secondly what  
is its [underline]deviation[/underline] or [unclear]dis.[/unclear]  
from the perpendicular. –  
The [unclear]iron[/unclear] dikes are almost always  
[underline]Chasm Veins[/underline], so are the  
Lead Veins in the secondary  
Countries. –

**RI MS HD/15/e, p. 119**

119  
see: Schist or prim Sand[superscript]e[/superscript]  
[Geological sketch in ink]

**RI MS HD/15/e, p. 120**

Wins of the Huttonians.  
– Its aspect differs very  
much from that of  
the quartzon rock &  
approaches nearer to  
basalt when the  
face only of the Strata  
is broken; but it  
cannot be compounded  
with Basalt on account  
of its [underline]great[/underline] irregularities

**RI MS HD/15/e, p. 121**

121  
places bent in the  
form of an arch  
a little way in Lumsden  
strand a form of  
them is seen approaching  
to the double arch.-  
[Geological sketch in ink]

Many of the stones are  
apparently water worn [unclear]S.JH[/unclear]  
– This primary sand stone  
approaches very near to  
some of the [deletion][unclear]xxxx of[/unclear][/deletion]

**RI MS HD/15/e, p. 122**

is a Breccia –  
primary sandstone of  
a character approaching  
to primitive quartz ore  
rock. contains veins  
of Quartz of iron spar  
& of calcareous spar  
& alternates with soft  
schist. –  
I found Coal in some  
of the primary sandstone  
which distinctly marks  
its origin. –  
The strata of the primary  
sandstone are often  
quite vertical; & in some

**RI MS HD/15/e, p. 123**

123  
Arch in the strata near Lumsden  
[deletion][unclear]See[/unclear] sand. [unclear]primitive I[unclear][/deletion]

[unclear]se:[/unclear] sand[superscript]e[/superscript]  
[Geological sketch in ink]

**RI MS HD/15/e, p. 124**

Observations made near  
Dunglass in Haddington Shire  
& [underline]in Berwick Shire[/underline]  
High in White adder Water  
Is seinite of a very distinct  
character. – near it are  
primary sandstone & shistone  
Rocks. –  
The coast from Dunglass  
to the Siccar soft see  
sand stone – at the  
Siccar transition into  
Primary sandstone & shist  
where the transition is  
Much of the fragments  
of the primary are  
found imbedded in the  
secondary which there

**RI MS HD/15/e, p. 125**

125

Character of the indurated sandstone  
Lumsden [unclear]shore[/unclear]:  
1 gen.  
[Geological sketch in ink]  
2. particular Rock water worn  
[Geological sketch in ink]

**24/06/21**

**RI MS HD/15/e, p. 126**

[underline]Sican point Haddington Shire[/underline]  
[Geological sketch in ink]

**RI MS HD/15/e, p. 127**

127  
in which Limestone was  
seen passing into Glimner  
Schiefer & stratified  
directions  
[Sketch in ink]  
Garnets were seen in  
all the rocks of the  
high Glimmer. Schiefer  
Kind

**RI MS HD/15/e, p. 128**

From L. Tarn Head to Callendar  
the [underline]first part[underline] of the road  
[underline]transition rock[/underline] of Micacious Shist  
into Grauwacke – [unclear]xxxtoric[/unclear]  
porphyry & trap.  
On [underline]Loch Catherne Grawake[/underline]  
joining schist  
In Callendar some T Pudding stone  
of the same kind as that at  
Staffa and at Oban –  
All the Rocks of the [unclear]xxxxte[/unclear]  
Grauwacke & Granster kind  
here [underline]congenerous[underline]  
[Horizontal rule]  
Road between [unclear]Tyndrum[/unclear] & Loch  
[unclear]Earn[/unclear]] principally Glenmor Schiefer  
& porphyry – A Quarry of  
Limestone near Crian Larich

**RI MS HD/15/e, p. 129**

129  
different porphories in Limestone  
range without shells but  
containing quartz pebbles –  
[unclear]Dxsh[/unclear] Loch Aloe – Glimner  
Scheifer Seinite porphory  
& Granite – so on  
till [unclear]xxxxx[/unclear] a few miles  
of Oban – Where [unclear]Alumxxxx[/unclear]  
Shist occurs – alternating  
With a peculiar large  
grained [deletion][unclear]xx[/unclear][/deletion] pudding stone  
[unclear]cant xxxxx xxxxx[/unclear] of Win  
of Quartz & other stones  
– This pudding stone evidently  
the same as the pudding  
stone below Basalt  
On the [underline]Landing in Mull[/underline]  
the Win [underline]with Zeolites[/underline]  
& chiefly [unclear]xxx[/unclear] where we travelled

**RI MS HD/15/e, p. 130**

road from Glasgow to [underline]Edinburgh[/underline]  
Shist by [unclear]Luss[/unclear] – the loss of  
[underline]Benlomond Glimner Scheifer[/underline]  
At [unclear]Arroguar[/unclear] – Seinite– granite  
Porphyry – Glimner Scheifer  
The hills above (the cobbler &)  
are all [underline]either Seinite[/underline] or  
stratified quartz or glimner  
Scheifer. – The compact Seinite  
contain pyrites – Seinite on  
the cobbler easily decomposes &  
gives a brown aspect. –  
At the bottom of the Hill  
before Rest & be thankful  
Stones approaching to [unclear]Gneis[/unclear]  
feld – spar Quartz mica –  
with a fine red porphyry  
At [unclear]Mxxvary[/unclear] porphyry &  
Micacious Shist. –  
Road [deletion]under[/deletion] from [unclear]Moerary[/unclear]  
to Loch Awe – Miccacious shist

**TO DO:**

**RI MS HD/15/e, p. 131**

131

In Scotland the secondary range

begins a little beyond the

North west boundary. –

– At a quarry in Edinburgh

which we examined with M[superscript]r[/superscript] Playfair

a district intersection of stratified

sand stone by Win with a

transition of Win into Limestone

[Geological sketch in ink and pencil]

– At Arthurs seat & Salisbury

crag – Win apparently

upon pudding stone & on

sand stone – Alternations

& [unclear]xxxxxxxxxxx[/unclear] of Veins.

[Horizontal rule]

Basalt or Win on the

**RI MS HD/15/e, p. 132**

similar in the cornish [deletion][unclear]xx[/unclear][/deletion]

[deletion][unclear]xxx[/unclear][/deletion] primitive Stones

Aug[superscript]t[/superscript]11

[Horizontal rule]

[underline]Observations made in[/underline]

[underline]July before the visit[/underline]

[underline]to the Highlands[/underline]

copied from red Book

In Yorkshire from the whole

western line of Road, I saw

stratified mountains – principally

silicious sand stone – with Magnesium

& shell limestone. – the silicious

sand stone runs into cumberland

but in Cumberland ~~we~~ could

observe no organic remains. –

The mountains in Cumberland

& Westmoreland are Shist

Variolite – Grauwacke & shistone

porphyry. – The parasitical

Stones. Garnets. Quartz

**RI MS HD/15/e, p. 133**

133

Mica. shew this.-

We found between [unclear]Invereness[/unclear]

& Kings House. – Shapes

of stratisfied Quartz

containing distinct Veins

of Granite. – Likewise

masses of micaceous Shist

containing similar Veins

We likewise observed Granite

passing into Quartz Rock

& micaceous Shist Rocks

by direct & gradual

transition –.

These facts very important

as they show all these

Rocks to be congenerous

& they agree with facts

**RI MS HD/15/e, p. 134**

[unclear]sheil[/unclear].- Road composed of feld

spar Rock – porphyry & [underline][unclear]Glimner[/unclear] Schiefer[/underline].

containing Garnets. –

Large Mountains of stratified Quartz

the white mountain of this Kind.

which is the most abundant of the primitive

Rocks here – evidently in layers having an inclination

from N to south & a dip from East to

west. [Sketch in ink] – Fracture like that

at Shale. & apparently the same kind

of [underline]stone[/underline]. Does not this shew that the

Quartz or stone under the Basalt may

be primitive: & perhaps the veins of

**RI MS HD/15/e, p. 135**

135

The series of Rocks near Stronian are Granite

red & white Granite – on the road

from Strontian to Fort William

a series of - Rocks composed of Quartz

& Mica begin – they are stratified

& of [unclear]Greis[/unclear] formation. - at their bases

a rock with a base of red chrystalized

feld spar containing chrystalized Quartz.

some parts of the bases of the mountains

were micacaeous shist -

From Fort William to Kings House we

saw Ben Nevis in great beauty [unclear]appartly[/unclear]

**RI MS HD/15/e, p. 136**

Another view

[Geological sketch in ink]

**RI MS HD/15/e, p. 137**

137

Quartz on Mountain next Ben Nevis

[Geological sketch in ink and pencil]

**RI MS HD/15/e, p. 138**

Arrangement of Rocks on the

NW. coast of Scotland

[Geological sketch in ink]

**RI MS HD/15/e, p. 139**

139

Ben ben

[Geological sketch in ink and pencil]

**RI MS HD/15/e, p. 140**

[underline]In [unclear]Innich[/unclear] Keith[/underline]

1. stratum – Win or Basalt

sometimes columnar.

2. Pudding Stone –

3. – Limestone & siliceous

sandstone in alternation

[Horizontal rule]

Arrangement of Rocks

from Ben Nivis to [unclear]Tyandron[/unclear]

[Geological sketch in ink and pencil]

masses of granite in the moors

with [unclear]shapes[/unclear] of the other Rocks

**RI MS HD/15/e, p. 141**

141

Sketch of the Cliff

west side of Staffa

[Geological sketch in ink and pencil]

[underline]partly composed of decomposed Win[/underline]

in large nodules

[deletion][unclear]p[/unclear][/deletion] Parasitical Stones

in the Basalt particularly

in the softer Kind.[underline]Zeolite.[/underline]

[deletion][unclear]xx[/unclear][/deletion] hard. Veins of [underline]calcerous spar[/underline]

[Horizontal rule]

**RI MS HD/15/e, p. 142**

– In [unclear]Mull[/unclear]. Sketch of

the Cliff opposite [underline]Ulva[/underline]

[Horizontal rule]

1 Basalt [Geological sketch in ink]

[Horizontal rule]

2 pudding stone [Geological sketch in ink]

[Horizontal rule]

3 Siliceous sandstone with Veins

of Quartz & Mica [unclear]cliff[/unclear] to the

East about 1 in ten.

[Horizontal rule]

[underline]Aspect of Siliceous Sandstone[/underline]

primitive fracture in Rhomboid

[Geological sketch in ink]

**RI MS HD/15/e, p. 143**

143

[underline]Carbonate[/underline] of [underline]Strontites[/underline] sometimes.

but little pyrites - though

some [underline]occurred in[/underline] the Win -

- The granite ends a

few miles from Stontian

when the mountains are

[deletion][unclear]&[/unclear][/deletion] composed [deletion]of[/deletion] principally of

[deletion][unclear]gra[/unclear][/deletion] a [unclear]xxxx[/unclear] containing

Quartz & glimmer on the

sides of Loch [unclear]Sewhart[/unclear] much

red porphry feldspar rock

with Quartz.-

**RI MS HD/15/e, p. 144**

Where the Win comes in the

load is rich & trails -

There is no heaving of the

load but a trailing on

the other side. -

The bed of the Load is

[unclear]lead ferraqinous[/unclear] Quartz which

they call [underline]red rider[/underline] the

country beneath large grained

granite. -

The indication of the Vein

ocre as in the cornish

Gossan. -

The Gaugue itself composed

first of - Calcarceous spar. [unclear]Harmstone[/unclear]

next. Heavy Spar. – [underline]Chlorite.[/underline]

**RI MS HD/15/e, p. 145**

145

Sketch of the [unclear]Windike[/unclear] at

Strontian.-

[Horizontal rule]

Vein of lead [deletion][unclear]xxxx[/unclear][/deletion] with

its gangue from three to

eight feet through - direction

from East to west [unclear]dist[/unclear]

of 1 yard generally in six.

Win dike or Vein from

[underline]North[/underline] to [underline]south[/underline] [unclear]dist[/unclear] more

than that of the Lead

but irregular. –

[Geological sketch in ink]

**RI MS HD/15/e, p. 146**

[underline]Sketch of the Sand stone Quarry[/underline]

[underline]near Glasgow[/underline].

[Horizontal rule]

1 Soil sandy

[Horizontal rule]

2. Irregular masses of sand stone in

soil

[Sketch in ink]

[Horizontal rule]

3. red tinge from Iron

continued masses of sand stone

[Sketch in ink]

[Horizontal rule]

4. horizontal Layer of rough grained

[unclear]ferrainous[/unclear] sand stone

[Sketch in ink]

[Horizontal rule]

5 undulating vein of manganese & iron

[Sketch in ink]

[Horizontal rule]

6 Layer of white sand stone

[Sketch in ink]

[Horizontal rule]

7 Undulating Vein of Coal with Bitumen

approaching in some places to

[unclear]wood[/unclear]

[Horizontal rule]

8 Alternate irregular strata

[Sketch in ink]

of micaceous sand stone

Carboniferous schist

Carboniferous clay & coal

[Horizontal rule]

White sandstone for building

**RI MS HD/15/e, p. 147**

147

Ben Nevis

[Geological sketch in ink]

**RI MS HD/15/e, p. 148**

[Ink written over pencil on this page] The different propensities like

the different strings of well tuned

[unclear]x[/unclear] harp each having

a different tune but

all in harmony

[underline]Porphyritic Aspect. River Awe[/underline]

[Geological sketch in ink]

Porphyritic Aspect.

[underline]Awe[/underline]

**RI MS HD/15/e, p. 149**

149

Mountain above Strontian

principally composed of a rock consisting

of [underline]Quartz[/underline] & [underline]Mica[/underline]..

[Geological sketch in ink]

**RI MS HD/15/e, p. 150**

of the Grainite & Basalt

in Mull?.. - -

[Horizontal rule]

[underline]Basaltic Aspect[/underline]

[unclear]Staffa[/unclear]

[Geological sketch in ink]

– in the rock of Dumbarton we

observes pudding stone below

the Win containing Win which

would shew that the pudding

stone was form’d after the Win

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in some places having

the aspect of [unclear]greis[/unclear]. -

Coast of Mull

opposite Iona – Hard red

Granite - - In Iona

no Rocks of Granite

[underline]Rocks[/underline], Schist principally

passing into Jade &

[unclear]hernstone[/unclear] - On the

South side large dike

or Rock of Jade.

sides a peculiar compact

asbestus, one piece I

Found [unclear]filamentous[/unclear] - -

Qu is it possible

to trace the function

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[unclear]Staffa[/unclear].. The Basaltic Columns

rest when in imperfect sand

sand stone containing

large fragments of

Win –

On [unclear]McKennith[/unclear]

the rocks are

1 stratum Basalt

evidently columnar

2 pudding stone -

3 Limestone & hard silicious

sand stone in alternate layers

- on the opposite Coast

of mull.

1 Basalt.

1 Pudding stone

Hard stratified

Sand stone silicious

[Horizontal rule]

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Ben Nevis

from Oban Bay

[Horizontal rule]

[Geological sketch in ink]

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Cruachan Ben

farther in Oban Bay

Primitive Mountain Aspect

[Geological sketch in ink]

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Lismore Sound of Mull

Limestone Aspect

[Horizontal rule]

[Geological sketch in ink]

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[underline]Cruachan[/underline] Ben

from [underline]Oban[/underline] Bay

[Geological sketch in ink]

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The maiden island in the

bay of Oban

[Geological sketch in ink]

Qu is not the Breccia from

the destruction of the primitive

Rock by water.-

Mem. The Elucidation of the

secondary strata beneath the

primitive apparently by

[unclear]xxxxx xxxxxx. - ie[/unclear] time may

be [unclear]just[/unclear] suffered to remain

not filled up which may be filled

afterwards -

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Augt.1. Oban the Country

here has a base of metalifferous

shist & ferruginous schist

with veins of quartz

& pearl spar; indications of

copper. Pudding stone containing

very considerable masses of

porphyry & primitive stones & Win

Base argillaceous.-

On the pudding stone stratified

sand stone.-

General geological aspect.

Schist

[Geological sketch in ink]

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[underline]Granite Aspect[/underline]

[Geological sketch in ink]

33 [underline]King’s[/underline]

[underline]Street[/underline]

[underline]Covent Garden[/underline]