**RI MS HD/15/E Transcription**

[Horizontal rule]

[Heavy deletion with an insertion, also deleted]

[Pencil sketch of a face in profile]

[Blank page]

[MS torn] / [MS illegible]

<Text> = interlineation

{Text} = inverted

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

un peu si vous plait
[?xxxxxxx] of beauty
or of grace

[Pencil sketch of a face in profile]

[Pencil sketch of a face in profile]

[?Pencil map]

{39 ?Bunslxxd}

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

\*1
Vauxhall
The light was glimmering through the trees
As raised by magic power
And balmy was the waning breeze
And full of hope the hour.
Cloathd in loveliness by pleasure
Before me lightly flew
In jocund pace to jocund measure
A guy & motley crew
Among them forms of beauty strayd
Fair as the morning beams
And in such fairy tints arrayed
As warm the pacts 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 unnoticed passed the dream
Of Midnight revelry
As passes the final 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 Anna was not there
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 [?xxxxx] of the tear, [?uneven]

Her mind. When moved by the

blast of the westerly Wind. –

As soft & as changeful its colours

were give

how ~~glowing~~ [?xxxxxxxx] 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~~ <Preserving> all their thoughts that move
In holy harmony to love

~~All~~ <Ah> 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 [~~?xx] changeful~~ <dark unclouded> 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 darkened 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
[?Whm] [?xx] [?xxxxx] the [?xxlles]
wild
[?Jxxxxx] the flowers
unfinishd
[?xxxxxxx] [?xx]

[?xxxxx]
[?Send] to West [?xxxxx]
consigned
Was [?Softly] ardent
[?josephine]
[?xx] yet [?xxxxxxx]
by [?xxxxx] or [?xxxxx]
[?x] [?xxxx] & [?xxxxx]
of [?x] [?xxxx]

**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
<As the>

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**

every mind is capable {[?gliding]} of
feeling.
If the progress of philosophical
discussion is like that of
the the Quiet stream <of [?xxxxx] [?xxxxx]> it
descends pure & clear
it either moves by obstacles
~~then~~ ~~it~~ or <slowly> saps their
foundations it fertilizes
& adorns [~~?xxxxx]~~

The course of popular opinion
is similar to that of new made
the Torrent swollen by Rains
It rapidly moves along overflows
its banks & <it> carries it
with it mud & stones

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

9
fruits & flowers, its force is
irresistible <but of that duration> its effects ~~destructive~~

~~its duration~~ are powerful

but destructive.

In the fine Arts emulation. In our
Modern Arts profit – Luxury & its
good effects – [?xxxx] Ridiculous

opinions of those who are

constantly asking cui bono.

We are powerful

[Pencil sketch of a face in profile]

transitory, but destructive

The other is <gentle> [~~?xxxx]~~

but <permanent &> full of benefits
[Pencil 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 I have lost thee now for ever~~

~~The calm air does not feel my sigh!~~

I joy that thou art absent; for my soul

Glows with the genial [unclear]restorative[/unclear] flame
Of holy purity & honest love!
The thought that though ~~art absent~~ <existeth> warms
my mind
With a wild sentiment of ~~angry [?xxxx]~~

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

11

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

Ungrateful Girl, my Heart No more
For thee shall tremble, pant & glow.
~~To love, to wonder, to adore~~My feelings ne’er again shall flow
To love, to wonder, to adore.
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.

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.
<In deepest study still I find thee>
~~always find thee in Serenity~~of How & where, & when to please;

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

~~[?The]~~ <You> [~~?arte] the~~ <fairest> Child of Heaven
And <Heaven> [~~?xxx]~~ in ~~transport~~ <Kindness> to thee gave
me for a slave.
You will not be forgiven.
<[?xx by thy cruelly]> Nay you wll neer yourself forgive!
If those [~~?xxx]~~ bright charms on which I live
Should lead me to an early grave
Oh be not cruel; think my [~~?xxx]~~ love
What daily pangs for thee I [~~?xxx]~~ <fear>
What daily [~~?xxx]~~ care.
~~And~~ yet <will> your [~~?xxx]~~ not approve.
Aught that I suffer,
I will not show
With what a painful fire I glow
How much, How warm I love .
Oh let that <[?Law] that [?bargain]> [~~?refract] [?xxx]~~ the light
That grain thy humid eyes, with beams
In pity stream
Oh that thy cheek is [~~?xxx]~~

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

13
~~[?xxx]~~
The summer ~~sweet~~
white & fleecy cloud
The lustre of thy cheek is pale
~~its the [?xxxx] [?xxx]
As the late summer~~the ~~lustre~~ <colour> of thy cheek is pale
As the fair fleecy clouds
<[?A] [?from] the rivers chilly that rest, [?xxx]>

~~[?xxxx]~~ the watered vale
Along

[Horizontal rule]

<showers bowers towers lowers powers>
~~That starting tear
Thy life that late in~~ <redness> [~~?xxxx] 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
[?xxx]~~ sixteen springs have seen

thee rise

With ~~sheath of pleasure in thy~~
<beauty beaming in thy eyes>
And sixteen summers now
have given
Thy charms thy perfectness of [?xxx]

<Anguish>
~~[?xxxx]~~ ~~[?xxxx]~~ has <never> touched

thy [~~?xxx]~~ mind
No loss of friends, no change of fate
~~My pleasures, [?xxxx] [?xxxx]~~

~~been refined
And~~
Fortune to thee was always Kind
And still thy devotions steps

attends

Yet faded is thy lovely form

~~And~~ faded ~~is~~ thy face <in [?xxxxxx]> so fair

Thy cheek <that way> with roses ~~and [?xxx]~~ warm
~~[?xxxx]~~ pale & glistening with

 ~~Their 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 will not her laws obey
In haste his holy joys to prove
And follow where I point the way

[Horizontal rule]
Be not ungrateful <fairest> ~~lovel~~y Maid.
In haste thy loveliness recover
Let Natures sacred debts be paid
And Bless thy self & bless thy lover.

[Horizontal rule]

~~<Soul of my Being>~~Oh let thy heart with rapture

beat
And soon the ruddy blood shall rise
Oh may not thou feel no other
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 <strong> [~~?xxxx]~~ & living fount
Kindling [~~?xx]~~ new roses in thy cheek

The purple stream of life shall

mount
[?xxx] why this change my lovely [?xxx]
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

~~[?xxxx]~~

Thy hair in no rich

wildness [?flows]
Grey is thy [?xxxx] [?xxxx]

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

~~And yet I love thee~~thy breast
No [?xxxx] luxuriance swells

thy breast
~~In Nature We now perceive~~How is the range 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. The 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~~ <build> Monuments as magnificent
<& as permanent > 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 [~~?xxx]~~ begin at the

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

wrong and; the firmest
~~[?found]~~ materials should
be in the foundations
the embellishments should
be made after the
structure is completed. –
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 [~~?xxxx]~~ 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 the World;
Our best ~~fruit~~ <garden> trees require
much pruning ~~before their~~
~~produce fruit becomes of~~
to make their produce good.
by then [~~?xxx]~~ <remains> 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 knew 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 [?Bircher] died 1645
1605 Bacon [~~?Tallurgie~~]

Chemistry by JS

Becker 1776
Gaffendi 1592
Gallileo 1593

Falconer on Mankind

M 81 [?Dally]

[?Dxxx]
<Agricola 1494>

~~Nature has done her best for thee
Nature has [?done]~~

**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
2 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 almost all cases
of new investigation new phenomena
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 [?xxxd] 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~~
~~[?xxxx] it~~ can be traced

is the source of their progression
& importance – for a well
organized country, [~~?xxxx]~~ power
is always [?compound]
Archimedes could not have
made machines which frightened
the Roman Soldiers without
the assistance of Good Carpenters
<& good workers in metals.>
But the [?learning] even of

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

these pursuits is not limited
~~[?to] [?Friends]~~; –
To speculative [?their] [?there]
minute researches into Nature
are always laborious Hobbes
has laid in his Leviathan

that ~~Chemistry~~ <Experimental> 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. –
[Pen 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 [?xxx] & 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
in a [?xxx] mineral substance
from Devonshire
The final specimens of
this substance were sent
to Dr Babington by Dr
Wavel of Barnstable
It is found filling
the cavities of Schist
in a quarry about
6 mines from Barnstable
Mr Hatchett who
at the desire of
Dr Babington visited
the place in which

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

33
it was ~~found has~~ informed
~~[?xxx]~~ discovered considered
the Shist as of the
soft clayey kind or
the Schiefer [?xxxx]
of Werner. ~~In the~~
~~[?xxx]~~ Amongst the

specimens that I
have in my possession
~~the Rocks [?xxx]~~of [?~~xxxx] [?xxxx]~~ the native
Rock some approach
to argillaceous Shist; but
~~[?xx]~~ 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 [~~?xxxx]~~ geognostic
characters 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; <&from its geognostic relations> & [?xxx]
<Mr Hatchet concluded that>

~~peculiar nature~~
<this could not be the case &>
Dr Babington ~~first~~
ascertained ~~its peculiar~~
~~[?xxxx]~~ its ~~peculiar~~
nature. from its
its general physical characters

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

<& from [~~?xxxx]~~ some expts on its>

& its solubility in the

<[?solution]> Acids ~~without producing~~ <made at his request>
<by Mr Huckly> 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
permitted me with the
specimens which I [?exployed]

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

37

& engaged me to undertake
an analysis

[?last/?Cast]

~~Truly sixteen springs have seen thee rise~~With Beauty [?beaming] in thy eyes

~~And sixteen summers now have~~

~~given~~

 <To – E –>
~~Thy form the perfectness of heaven~~\*2
I saw thee ~~once~~ <first> as if a flower
opening beneath an April shower
~~Then you~~ <blooming Heath>
~~I [?xxxx] [?thee] [?once]~~ When loveliness
Did ~~all~~ <all> [~~?xxxx]~~ form & features
When you <were> [~~?xxxx]~~ yet <a growing> <~~growing~~> ~~a little~~ child
At which each passing stranger
smiled.–
And stopped with Kindest joy to

trace <~~gaze~~>
~~So witching were thy childish ways.
<was thy form & face>~~

~~trace~~
The <witching features> ~~wayward beauty~~ of thy face

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

~~I knew thee once a [?xxxx] being!~~

~~By [?their] pursued yet all new~~

~~?feeing~~

~~Again~~

~~When sixteen springs had seen thee~~

~~rise~~

~~With beauty <pleasure> beaming in thy eye,~~

~~When [?fifteen] summer suns had~~

~~given~~

~~The charms the perfectness of~~

~~Again I knew you <saw heaven> <then how> wayward being~~

~~By [?their] pursued yet all now~~

~~fleeing.~~

~~2~~

~~I sought thee [?xxxx] in [?xxxx] [?xxxx] in <felt love>~~

~~I woed thee what boyish love <passion>~~

~~{~~I [?xxxx] I will still complain,

~~<But never our>~~

I will not own myself his slave;

~~[?xxxx] [?xxxx] my [?xxxx] <[?xxxx]> <[?xxxx]>~~ false

But name my care in [?xxxx] [?xxxx] [?xxxx]
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 cheek then [?sacred]~~

~~They cheek to such a warmest hue~~

~~In thy [?xxxx] cheek so bright a hue~~

[?I]

Thy Spirit surely springs from heaven

When first I saw thy stately form
~~With every grace of motion warm~~

With every grace of motion warm

~~{It may~~

To see my [~~?form]~~ <[?cheek] [?form]> its freshness lose

[?May] [?some]

An <may> ~~will~~ it not his [?xxxx] 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 <will prove>}

A mind

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 vain I still must [?vow]
In vain my cheek is full with~~

~~woe,~~

In vain, I hope, in vain I sigh

~~For He shall never <[?xxxx] [?will] perhaps [?xxxx]> never Known~~

That I [~~?xxxx] [?xxxx]~~ must live <[?xxxx]> or die

?The [~~?xxxx]~~

~~[?xxxx] death my [?xxxx] the tale~~

disclose

~~My word the tale shall neer~~In secret I will still complain
My tale shall never [~~?xxxt]~~ <reach> his ear
In secret nourish [?xxx] all my care
I will not [~~?fear]~~ <meet> 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 <lofty> pride [~~?xxxx]~~ 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 [~~?xx]~~ coincides with
the common ideas of utility
the discovery of the nature
of the productions of
the globe & their appreciation

**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~~ <Natural> 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 [~~?xxx]~~ 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. –
– [?However]
I am fond of reading

I am fond of reading
romances, I have
been lately exceedingly amused
by reading the French
Encyclopedia. –

[Pencil sketch of a face in profile]

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

In vain have I swore I will
love her no more
She torments She perplexes
yet still I adore. –
Her faults with her ~~virtues~~ <virtues>
so strangely combine
~~That I have~~ <I admire> Her ~~the~~ more
the more I refine
\*3 Her form is a fairys
Free graceful & light

Her looks as the [~~?xxxx]~~ leaves
of the ~~Aut~~ Autumn are
bright
And soft is the light
that ~~falls~~ <beams> 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 flowing 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.

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

53

I love ~~thee now, in doubt~~ in

[~~?xxx]~~ care
With feelings leading to despair
I then a happy careless boy
~~I loved the then a careless~~

~~boy~~\*2 I loved thee then a careless

boy

In <quiet> hope in <simple> ~~rapture & in~~

~~joy~~

I love the sea

On which the <beams of> morning ~~beams~~

~~did~~ play

Or as the bright full moon

on high
In the <blue &> frosty sky
Or as the [?xxxx] balmy

breeze
Or as the Autumns tinted

trees –

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

Was the lightnings [~~?xxx]~~

~~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

~~You [?xxx] a~~

~~Your charms have changed~~

~~Ten summers since have~~

~~passed away~~

~~Since that <bright> & <well remembered> [?xxxd] day~~

Ten <~~winters~~ summers> ~~summers~~ now have

passed away

And full matured time

has given

Thy charms “the perfectness

of heaven

How <art thou> [~~?xxx] [?xxxx]~~ changed”

Does in they ~~changeful~~ <varied>

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

[~~?xxx]~~ care
In troubled rapture mixed

with fear.
~~I love thee [?xxxx] foaming~~

~~wave~~

~~Which may become~~

~~the [?xxxx]~~Or <or> as the lightnings [~~?xxxx]~~ blaze

 {Or as the lightnings 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

[?xxxxye]

Or as the sky in colour warm
yet breaking <[?warm]> of the <rising> ~~coming~~

storm
~~Like the sublime which Nature
In joy in [?xxxx]~~

~~[?xxxx] [?xxxx] in [?xxxxx] [?xxxxx]~~

~~lives~~

Or as the sky

when breaking storms

[Pencil sketch of a face in profile]

[Pencil 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**

To Alba
The colour of thy cheek is pale
As the fair fleecy mists that [?xxxx]
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
~~[?xxx] is thy [?xxxx] eye.~~

3

Grey is thy humid eye.
3
~~All who shall tell me why I love
And why for thee in care I pine~~

~~[?xxxx] [?xxxx] can tell, for none can [?prove]~~

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

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

~~Ah why not though to me unknown~~

Oh could my spirit winged [?xxxx]

[?flame]

[?xxxx] [?xxxx]

~~Oh think me neither cruel~~ or

unkind

~~Spirit of [?Geni], [?xxxx]~~

Ah though thy form to me is

still unknown

~~Thy potent Genius~~ I with reverence

own

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

Oh let in [?pain] and holy sympathy
Still dwell within thy bosom
<Let thy Heart>
Cherish the loveliness of living

things
And sometimes turn thy memory

unto me
And let thy potent Genius

raise the song

Of Nature [?xxx] 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 thy [?xxxx] song
The only
~~But what can be more lovely & more fair
Than that soft blush which warms thy cheek~~The <[?xxx]> secret source of every

fountain
That wildly tumbles down the

mountain
Should to our [?wondering] <silent> hands

be shown
Though to the wondering world unknown. –

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

{Kiss for moments; years of}
sorrows
– 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 [?xxxing] 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
In vain the tears <1> of ~~anguish~~ <sorrow> flow
In vain I hope, in vain I sigh
For He perhaps will never know
That I must live for him, or die
?~~xx~~ <Shall I> secret I will <2> still ~~still~~ complain

<or,> ~~[?xx] ever own myself his slave~~
But [?xxx] my care is feigned
disdain
And bear it with me to the grave
.3.
Yet purely in my faded form
~~[?xx] [?xxxx] [?xxx]~~ <[?tints]> trace of anguish [?xxx] find

~~Thee take~~ marks of sorrow He [?xxxx] 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 <lose> 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

[?xxx] 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 Rafaelle in
one of his pictures had
introduced by the side
of the Virgin [?xxxxd]
& our Saviour <?a Mountebank> ~~[?xxx] [?xxxx]~~
The ludicrous is easily
understood, & narrative always
demands less skill,

Excess of ornament allways
proves bad. “The leaves assume
more vivid colour before they
die – ­this “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
his days to the discovery of
by Ambition, He gave up
truth. We are
delighted with the thoughts
of the Academy of Athens}

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

69

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

**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 [?Omar] may
arise in a new emperor

& all things may fall

but prejudices conquered
cannot be reastablished
And if errors gain
power from habit
& from the length of
time that they exist
truths will not easily
be forgotten more [?espec]}

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

71

{every charm.
To 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 window of Hygeion

Power

Fair as the bud beneath the vernal shower,

When the mild Zephyrs from the
Ocean blow
With joy in health I see thy
features glow
With every infant grace I see her sire
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 [?Zophane]

[Pencil sketch of a face in profile]
How could the
merchant be secure as long
as the idea of [?Alchemical]
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 [?xxxx] [?xx]

[?xxxd]}

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

{[?xxx] [?Zoe] ~~in ?health~~ <in beauty>

~~& beauty~~ <& with feeling> warm

So from a heart
with [?xxxx] our true worth
Long must thou live
In [?xxxxx] improve
And as thouh livest

In all that wakens
kindness hope & love
With every infant ~~[?xxxx]~~ grace
I see thee rise
Whilst pleasure
sparkles in thy}

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

75

{Fair
New blooming in order of
Thy fathers power
Fair as the bud beneath
the ~~luminous~~ <vernal> flowers
When the mild Zephyrs
from the ocean blow
With joy; in health
I see thy features
glow
[?xxx] [?xxx] from [?xxx] &
Nature every charm}

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

{[Geological sketch in pen]}

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

77
{most people took care
only of themselves, but
that for her part, She

would take care of
her family}

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

{My Mothers genius &
her feeling heart
My fathers strength

& mortal energy

That chills [?xxxing]

Keeps
the vital Heart
[?xxxx] 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**

{Much ornament ~~is~~
attached to opinions
proves they are sickly
the leaves ~~[?fxxx] upon~~ <look more brilliant> the
<& beautiful> ~~trees~~ before they die. –
If the mathematical Sciences
are efficacious in their power
of interpreting the Reason &
refining the judgment, the Chemical
ones are still more efficacious
because they approach nearer
to the facts of common life

~~[?xxx] [?xx]~~}

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

81
{82. <High Street> 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]
~~Still [?xxxx] shall complain
Shall I [?xxx]
Still unknown shall I complain
Shall I still <2>~~Shall I unnoticed still complain
Or what I am ~~to h~~

at once display}

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

{must pursue the Analyses 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 Wedgwoods Manufactory
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
in certain stone such for

instance as the Ruby is
uniformly composed of alumine
to certain stone such for
& 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 ~~by~~ 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
[?xxxx] [?xxxx] which afford
to the [?xxxx] Chrystalographer
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~~
~~slightest changes~~}

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

{work of Philosophical Mineralogy
& He determines that no
other character should be
admitted but those which
are inalterable & independent
of chance or 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 mineralogic
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

[Pen sketch of a portico]

As the leaves assume

more vivid colours before

they die

[Pen 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

[?part] – see [?Exxebius]
Press Evang: 11 6 111. 7 &11
It seems not probable
that the mythology of
the greeks was a very
heterogeneous collection
[?Damaus]. [?Cecross] – Cadmus

[?Phere]: Orpheus [?Thraxx]

Excellent observation of
Grew; list if you
with 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 ~~[?xx] [?x]~~
or black stones signifies
~~[?xx]~~ that the divine
Nature is imperceptible}

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

91

{conjectures of modern
speculation, ~~[?xx]~~ in similar disposition
is found towards imperfect
generalizations – the mind rests
satisfied with conjectures; the
most fertile imagination develops,
the most interesting views,
but facts & the real order
of things are in general
disregarded or what is to [?one]
misinterpreted for the purpose
of serving the views of a [?pxxxxx]
[?xxxxx] – arrangement
of words.}

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

{~~On certain~~

On Basalt & some congenerous
Rocks. –

Few subjects have been
here 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 of labour. Cosmogeny
to the present times than
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 [?Carns]

[Geological sketch in pen]}

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

{Primitive Shist Aspect. L. Lomond.

[Geological sketch in pen]}

**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

Scientific Aspect

[?Cobler] near [?Arrogicas]}

[Geological sketch in pen]

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

{miles from Arkendale &
is [?xxred] by a hush
sketch from memory
[Geological sketch in pen]

The Barytes 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 standstone
The great metalliferous
Vein bearing the Carbonate
of Barytes is about 2}

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

{Vein at Arkendale of which
a side is bare & from
which the limestone
strata on one side
have slipped at least
10 fathoms}

 [Geological sketch in pen]}

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

99

{Some of the Carbonate of Lime
of Veins appears very stalactical
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 Hush. that is by carving
a Mountain torrent to flow
over the face of the rock
by which the discovery is
made.}

**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 slip.
vein
Shale Shale

Limestone Limestone
[?xxss]}

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

101

{& Yorkshire near Alson Moor
is stratified & the Rocks
except the Win are congenerous
The Veins run through
all the strata. They are
of Quartz, fluor, Sulphate
& Carbonate of Barytes &

Carbonate of lime – They
are principally metalliferous
when in the 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
The Carbonate is in <nant> 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 Alstone is not Metaliferous
but it is in [?Dutton] in Yorkshire
– Coal is found <in Alstone> as low
as 140 fathoms. – Where
the coal touches the Vein
it is said to be rendered
[?Coak] 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 Cat Coal
it is upon silicious sandstone
& below – Shiver –}

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

{plate 3 1/4 – Limestone Tumbler 3
Great Limestone. 7. –
The plate means loose
shiver – the sills [?xxx] <mean>

~~calceous~~ sandtone – The fire
stone is hard silicious sandstone
– The great Limestone is generally
in alstone Moor 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
{Account of the strata
in Alston Moor. & Tees Dale
being a country of 20
Miles square. –
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~~. Sill 1/2. Upper coal sill 1 1/2
Coal. 1. Under coal sill 2}

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

{Near Eglestone Hall. is
a seam of Coal < about 9 inches thick> below Limestone
& upon sandstone very hard
Shale is above the Limestone
Sketch.

[Geological sketch in pen]

At a junction of two [?beds]
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 pen]}

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

On a second examination of
the high force I am inclined
to believe that the appearance
of the Dike in the Win is

Owing merely to an eruption
of the strata. & that
the vein has no win
rider 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
{Sketch of the Rocks at the
High force}

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

{The calcareous spar was
highly penetrated by pyrites
near its junction with
~~the~~ shist. – & between
the shist & Limestone
there was no distinct
Transition. –

– In the Basalt generally
there were large ferriferous
veins & 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
Vein containing Blend &
Galena with Iron oxide.
the Gangue. Calcareous spar &
Quartz. –
– This Vein passed
through all the strata; but
the dike was lost in the
Shist & Calcareaous Stone
& in those Rocks it
was not metalliferous
being in the Limestone
principally calcareaous spar}

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

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

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

113

{after them 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**

{Veins in the basalt about
7. Miles above Eglestone on

the Tees. –

[Geological sketch in pen]
The Direction of the Veins
was various & their sides
in many places a broken
Basaltic dike through [?~~xx~~] ~~the~~}

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

115

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

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

{Eaglestone Durham Augt 26
The bed of the Tees till about
4 miles above Eglestone is
Sandstone of a soft kind & carboniferous
at Middleton Shale 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 [?~~xxxx~~] the bed of
the upper part of the
river [?~~xxx~~] as high as
the great waterfall}

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

117

{Junction at [?Secar] point of the
prim & secondary sandstone

[Geological sketch in pen]}

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

{Note in every Vein thus it is to be
enquired is it a Vein of Chasm
ie a vein which fills up a
space between two walls of Rock
[Geological sketch in pen]
thus or in it a hole vein
which fills a simple orifice
thus [sketch]. When it is a Chasm
Vein, it is to be noted
what is its direction ie
its general course secondly what
is its deviation or [?Less]
from the perpendicular. –

The Vein dikes are almost always

Chasm Veins, so are the

Load Veins in the secondary

Countries. –}

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

119
{see: Schist or prim Sande

[Geological sketch in pen]}

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

{Wins of the Huttonians.

– Its aspect differs very
much from that of
the [?quarthon] rock &
approaches nearer to
basalt when the
face only of the Strata
is broken; but it
cannot be confounded
with Basalt on account
of its great 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 pen]

Many of the stones are
apparently water worn [?S.JH]

– This primary sand stone
approaches way near to
some of the [?~~xxxx~~] [~~x]~~}

**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
~~Dec Jan [?pxxxxx]~~ [?I] [?se:] sande

[Geological sketch in pen]}

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

Observations made near
Dunglass in Haddington Shire
& in Berwick Shire
High in White adder Water

Is seinite of a very distinct
character. – near it are
primary sandstone & shist
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 [?shore]:
1 gen.

[Geological sketch in pen]

2. particular Rock water worn

[Geological sketch in pen]

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

{Sican point Haddington Shire

[Geological sketch in pen]}

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

127

{in which Limestone was
seen passing into Glimner
Schiefer & stratified
directions

[sketch in pen]
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 first part of the road
transition rock of Micacious Shist
into Grauwacke – [?xxxtoric]
porphyry & trap.
On Loch Catherne Grawake
joining schist
In Callendar some T Pudding stone
of the same kind as that at
Staffa and at Oban –
All the Rocks of the [?xxxxte]
Grauwacke & Granster kind

here congenerous

[Horizontal rule]
Road between [?Tyndrum] & Loch
[?Earn] 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 –
[?Dxsh] Loch Aloe – Glimner

Scheifer Seinite porphory

& Granite – so on
till [?xxxxx] a few miles
of Oban – Where [?Alumxxxx]
Shist occurs – alternating

With a peculiar large

grained [?~~xx~~] pudding stone
[?cant] [?xxxxx] [?xxxxx] of Win

of Quartz & other stones
– This pudding stone evidently

the same as the pudding

stone below Basalt
On the Landing Mull

the Win with Zeolites

& chiefly [?xxx] where we travelled}

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

{road from Glasgow to Edinburgh
Shist by [?Luss] – the loss of
Benlomond Glimner Scheifer
At [?Arroguar] – Seinite– granite
Porphyry – Glimner Scheifer
The hills above (the cobbler &)
are all either Seinite 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 [?Gneis]
feld – spar Quartz mica –
with a fine red porphyry
At [?Mxxvary] porphyry &
Micacious Shist. –
Road ~~under~~ from [?Moerary]
to Loch Awe – Miccacious shist}

**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 Mr Playfair
a district intersection of stratified
sand stone by Win with a
transition of Win into Limestone

[Geological sketch in pen and pencil]

– At Arthurs seat & Salisbury
crag – Win apparently
upon pudding stone & on
sand stone – Alternations
& [?indxxxlation] of Veins
Basalt or Win on the}

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

{similar in the cornish [?~~xx~~]
primitive Stones
Augt 11

[Horizontal rule]
Observations made in
July before the visit
to the Highlands
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 & [?shistxxx]
porphyry. – The parasitical
Stones. Garnets. Quartz}

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

133

{Mica. shew this.
We found between [?Inverness]
& 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 Rock
by direct & gradual
transition –.
These facts are very important
as they show all these
Rocks to be congenerous
& they agree with facts}

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

{[?sheil] Road composed of feld
spar Rock – porphyry & Glimner Schiefer.
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 pen] – Fracture like that
at Shale. & apparently the same kind
of stone. 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 [?Greis] formation. ­– at their bases
a rock with a base of red chrystalized
feld spar containing chrystalized Quartz.
some parts of the fbaces of the mountains
were micacaeous shist ­–
From Fort William to Kings House we
saw Ben Nevis in great beauty [?assxxxtly]}

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

{Another view

[Geological sketch in pen]}

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

137
{Quartz on Mountain next Ben Nevis

[Geological sketch in pen and pencil]}

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

{Arrangement of Rocks on the
NW. coast of Scotland}

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

139

{Ben Nivis

[Geological sketch in pen and pencil]}

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

{In [?Innich] Keith
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 [?Tyandron]

[Geological sketch in pen and pencil]}

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

141

{Sketch of the Cliff

west side of Staffa

[Geological sketch in pen and pencil]

partly composed of decomposed Win

in large nodules

Parasitical Stones

in the Basalt particularly

in the softer Kind. Zeolite

hard. Veins of calcerous spar

[Horizontal rule]}

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

{– In Thule. Sketch of
the Cliff opposite Ulva

[Geological sketch in pen]
2 pudding stone

[Geological sketch in pen]
3 Siliceous sandstone with Veins
of Quartz & Mica dip to the
East about 1 in ten.

[Horizontal rule]
Aspect of Siliceous Sandstone
primitive fracture in Rhomboid
[Geological sketch in pen]}

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

143
{Carbonate of Stratites sometimes.
but little pyrites – though
some occurred in the Win –
– The granite ends a

few miles from Stontian
 when the mountains are

composed ~~of~~ principally of
[?~~grain~~] [?~~xxx~~] containing
Quartz & glimner on the
sides of Loch [?Sewhart] 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
~~lead~~ [?ferraqinous] Quartz which
they call red rider the
country beneath large grained
granite. –
The indication of the Vein
ocre as in the cornish
Gossan. –
The Gaugue itself composed
first of a Calcarceous spar. [?Harxxtone]
next. Heavy Spar. – Chlorite.}

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

145

{Sketch of the Windike at
Strontian

[Horizontal rule]
Vein of lead [?xxxx] with
its gangue from three to
eight feet through ­– direction
from East to West [?diss]
of 1 yard generally in six.
Win dike or Vein from
North to south [?diss] more
than that of the lead
but irregular. –

[Geological sketch in pen]}

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

{Sketch of the Sand stone Quarry
near Glasgow.

[Horizontal rule]
1 Soil sandy

[Horizontal rule]
2. Irregular masses of sand stone in
soil

[sketch in pen]

[Horizontal rule]
3. red tinge from Iron
continued masses of sand stone
[sketch in pen]
[Horizontal rule]
4. horizontal layer of rough grained
continued masses of sand stone

[sketch in pen]
5 undulating vein of manganese & iron

[sketch in pen]
6 Layer of white sand stone

[sketch in pen]
7 Undulating Vein of Coal with Bitumen
approaching in some places to
[?wood]

[Horizontal rule]
8 Alternate irregular strata
of micaceous sand stone
Carboniferous schist
Carboniferous clay & coal
[Horizontal rule]
White Sand stone for building}

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

147
{Ben Nevis

[Geological sketch in pen]}

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

{The different propensities like
the different strings of well tuned

[?~~x~~] harp each having
a different tune but
all in harmony
Porphyritic Aspect.
River Awe

[Geological sketch in pen]}

Porphyritic Aspect.
Awe

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

149

{Mountain above Strontian
principally composed of a rock consisting
of Quartz & Mica

[Geological sketch in pen]}

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

of the Grainite & Basalt
in Mull?.. – –
[Horizontal rule]

Basaltic Aspect
Staffa

[Geological sketch in pen]
– in the rock of Dumbarton we
observes pudding stone below
the Win containing Win which
would shew that the pudding
stone was formed after the Win}

**RI MS HD/15/E, p. 151**

151

{in some places having

the aspect of [?greis]. –

Coast of Mull
opposite Iona – Hard red
Granite. – In Iona
no Rocks of Granite
Rocks, Schist principally
passing into Jade &

[?hernstone] – On the

South side large dike
or Rock of Jade.
sides a peculiar compact
asbestos, one piece I

Found filamentous

[?Qu] is it possible
to trace the function}

**RI MS HD/15/E, p. 152**

{Staffa.. The Basaltic Columns
rest when in imperfect sand
sand stone containing
large fragments of
Win –
On [?McKennith]
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]}

**RI MS HD/15/E, p. 153**

153
{Ben Nevis
from Oban Bay
[Horizontal rule]

[Geological sketch in pen]}

**RI MS HD/15/E, p. 154**

{Cruachun Ben

farther in Oban Bay
Primitive Mountain Aspect
[Geological sketch in pen]}

**RI MS HD/15/E, p. 155**

155
{Lismore Sound of Mull
Limestone Aspect

[Geological sketch in pen]}

**RI MS HD/15/E, p. 156**

{ Cruachan Ben

from Oban Bay
[Geological sketch in pen]}

**RI MS HD/15/E, p. 157**

157

{The maiden island in the
bay of Oban

[Geological sketch in pen]
[?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
[?xxllx] [?xxxx]. – [?xx] [?txxx] may

be just suffered to remain
not filled up which may be filled
afterwards –}

**RI MS HD/15/E, p. 158**

158

{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 stratisfied

sand stone. –
General geological aspect
Schist
sand stone
Schist
[Geological sketch in pen]}

**RI MS HD/15/E, p. 159**

{Granite Aspect
33 Kings

Street
Covent Garden}