

July 10

861051
APRIL

Bill
I have only made a stab at sorting through this material as time allowed.

I listed the IGC Rock symbol numbers beside the legend and I feel, initially, the following should be placed on the sections;

- ① P.G.I & RI Rock types - same column.
- ② Assays. Au } ppm
Ag }
As }
x 42
x 24
0 15
- ③ Qtz Flooding (Q2)
& Qtz veining (Q1)
- ④ Pyrite (P1 & P2)

↑
more N.B.

M. M. W

LEGEND

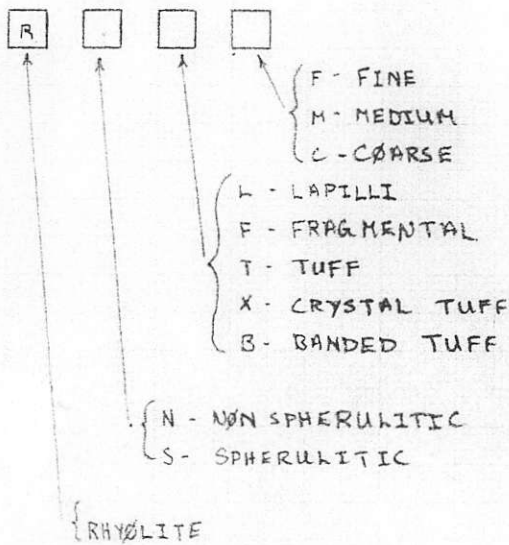
GEOCODING ROCK TYPES

I&C Rock Symbols.

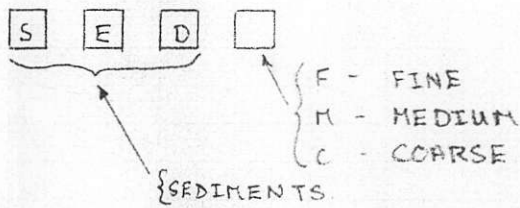
RHYOLITES

- 74 1a FRAGMENTAL AND LAPILLI { RNFL, RNL } ^{F, M, C}
- 75 1b TUFF RNTF
- 76 1c BANDED TUFF RNBF
- 77 1d SPHERULITIC TUFF RSTF
- 78 1e BANDED SPHERULITIC TUFF RSBF
- 79 1f CRYSTAL TUFF RNXF

RHYOLITES

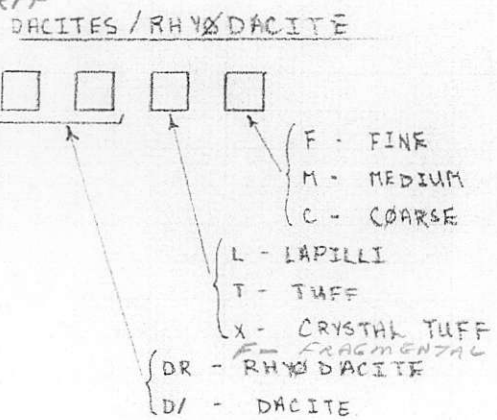


SEDIMENTS



DACITES AND RHYODACITES

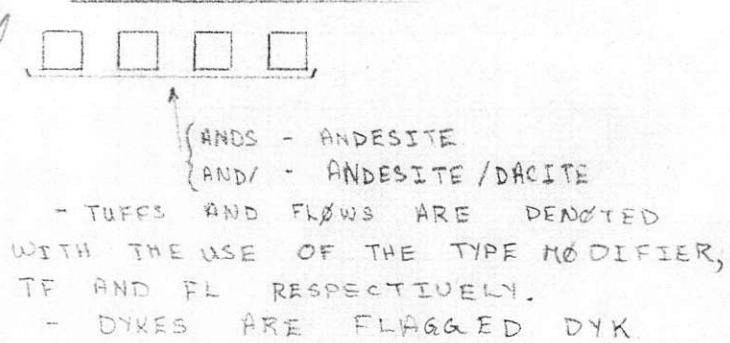
- 190 2a RHYODACITE (LAPILLI - FRAGMENTAL) DRLF, DRFF
- 191 2b RHYODACITE TUFF DRTF
- 192 2c DACITE (LAPILLI - FRAGMENTAL) DILF, DIFF
- 193 2d DACITE TUFF DITF
- 194 2e DACITE X-TAL TUFF DIXF



ANDESITE / DACITE

- 1 3a AND / DACITE TUFF ANDI
- 2 3b AND FLOW ANDS } differentiated by T-MOD.
- 3 3c AND DYKE ANDS }

ANDESITES / DACITES



SEDIMENTS (VOLCANIC - EPICLASTIC)

- 35 4a FINE SEDF
- 36 4b MEDIUM SEDM
- 37 4c COARSE SEDC

INTRUSIVES

- 14 5a DIORITE DIOR
- DIOR
- MCOR

DIOR - DIORITE

MISSING CORE - MCOR (RT)
 QUBD - OVERBURDEN

TEXTURES

BRECCIATED - BX UNDER TX1

EQUIGRANULAR - EQ UNDER TX2

- ALSO ENTERED IS THE GRAIN SIZE UNDER FF, OR A SIZE RANGE UNDER FF AND MXD.

SPHERULITIC - SU UNDER TX3 (% age entered in upper tier column 45 with G-scale)

AMYGDALOIDAL - AM UNDER TX3

AGGLOMERITIC - AG UNDER TX4

EPICLASTIC - EP UNDER TX4

T-MODIFIERS

TUFFACEOUS - TF

FLOW - FL

STRUCTURE I.D.

- CI - CONTACT "STRAIGHT"
- CI - CONTACT "IRREGULAR"
- BI - BANDING "STRAIGHT"
- BI - BANDING "IRREGULAR"

WHERE CI & BI ALSO HAVE A DIP, THEY ARE IRREGULAR BUT FOLLOW A MEASURABLE TREND

TWO NEW COLUMNS

F 45 - UPPER TIER - % SU FOR PERCENTAGE OF SPHERULITES (G-SCALE)
F 46 - UPPER TIER - MAG. - DEGREE OF MAGNETIC SUSCEPTIBILITY

W - WEAKLY MAGNETIC
M - MODERATELY MAGNETIC
S - STRONGLY MAGNETIC

11-5-72

F 67-68 - UPPER TIER - CHANGED FROM XX TO ZE FOR ZEOLITE.

HOW & AMOUNTS FOR ALTERATION MINERALS

SAME AS STATED IN THE GEOLOG TABLES EXCEPT FOR

- How
- Q - PATCHES, IRREGULAR
 - F - FLOODING
 - # - BRECCIA FILLING, BUT IF NON BRECCIATED THEN IT REFERS TO INTERFRAGMENT FILLING.
 - X - MAINLY USED TO IMPLY FRACTURE FILLING.

AMOUNT G-SCALE AS STATED EXCEPT FOR

? - INDICATES "PRESENT IN LARGE AMOUNTS BUT IMPOSSIBLE TO ESTIMATE"

IN THE CASE OF CHLORITE, G-SCALE VALUES ARE USED AS RELATIVE AMOUNTS

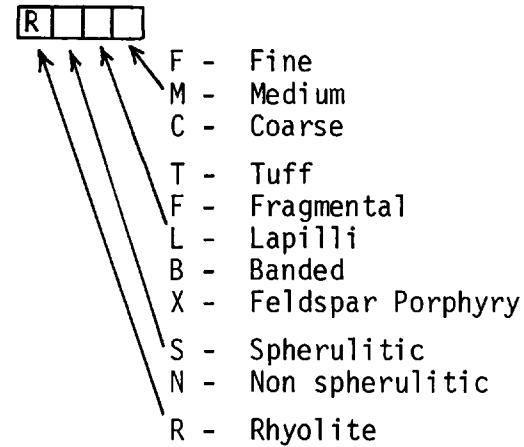
- - Present
- - MODERATE AMOUNTS.
- (- WELL CHLORITIZED
- *) } - USED FOR UNUSUALLY LARGE AMOUNTS
- + }
- = }
- etc }

GEOCODING ROCK TYPES

LEGEND:

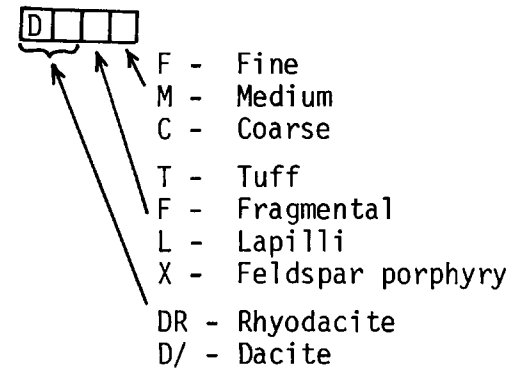
Rhyolites

- RNT - Rhyolite tuff
- RNF - Rhyolite fragmental tuff
- RNL - Rhyolite lapilli tuff
- RNB - Rhyolite banded tuff
- RST - Rhyolite spherulitic tuff
- RSB - Rhyolite banded spherulitic tuff
- RSF - Rhyolite spherulitic fragmental tuff
- RSL - Rhyolite spherulitic lapilli tuff
- RNX - Rhyolite feldspar porphyry



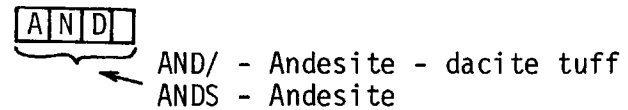
Dacites - Rhyodacites

- DRT - Rhyodacite tuff
- DRF - Rhyodacite fragmental tuff
- DRL - Rhyodacite lapilli tuff
- D/T - Dacite tuff
- D/F - Dacite fragmental tuff
- D/L - Dacite Lapilli tuff
- D/X - Dacite feldspar porphyry



Andesite - Dacite

- AND/ - Andesite - dacite tuff
- ANDS - Andesite: Flow or dyke



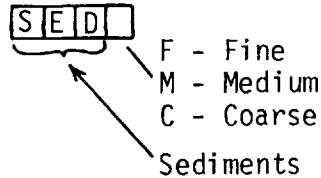
Tuffs and flows are denoted with the use of the type modifier TF and TL respectively. Dykes are flagged DYK.

Intrusives

DIOR - Diorite

Sediments

SED - Sediments



Textures

BX - Brecciated - under TXI

EQ - Equigranular - under TX2. Also entered is the grain size under Ff or A size range under Ff or MxP.

SU - Spherulitic - under TX3. Percentage is entered in column 45 - upper tier - G scale.

AM - Amygdaloidal - under TX3.

AG - Agglomeratic - under TX4

EP - Epiclastic - under TX4

T-Modifiers

TF - Tuffaceous

FL - Flow

Structure

C/ - Contact straight

CI - Contact irregular

B/ - Banding straight

BI - Banding irregular

Where CI and BI also have a dip it is irregular but follows a measurable trend.

Additions and Changes

- F45 - Upper Tier - % SU for percentage of spherulites (G-scale)
- F46 - Upper Tier - Mag. - Degree of magnetic susceptibility
 - W - weakly magnetic
 - M - Moderately magnetic
 - S - Strongly magnetic
- F57 & 58 - Upper Tier - Quartz as veining
- F59 & 60 - Upper Tier - BI changed to Quartz as flooding.
- F67 & 68 - Upper Tier - XX changed to ZE for zeolite.
- F69 & 70 - Upper Tier - Pyrite as disseminations and/or veining.
- F71 & 72 - Upper Tier - CP changed to quartz as breccia filling or interfragment filling.

How and Amounts for Alteration Minerals

Same as stated in geolog tables except for:

- How -
- Q - patches, irregular
 - F - flooding
 - # - Breccia filling but if not brecciated refers to interfragment filling
 - < - Mainly used to imply fracture filling.

- Amount
- G scale as stated except for:
 - ? - Indicates present in large amounts but impossible to estimate.
- In the case of chlorite G scales values are used as relative amounts.
- . - Present
 - - Moderate amounts
 - (- Well chloritized

*
)
+
=
etc. } Used for unusually large amounts

LEGEND

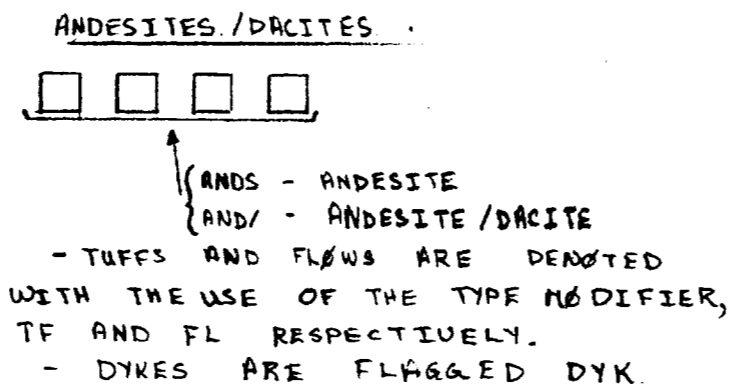
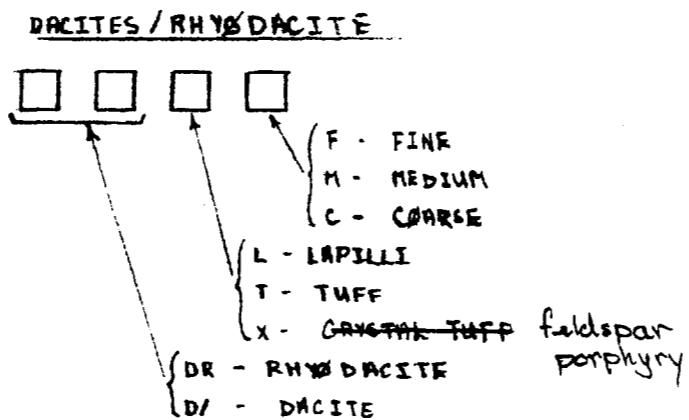
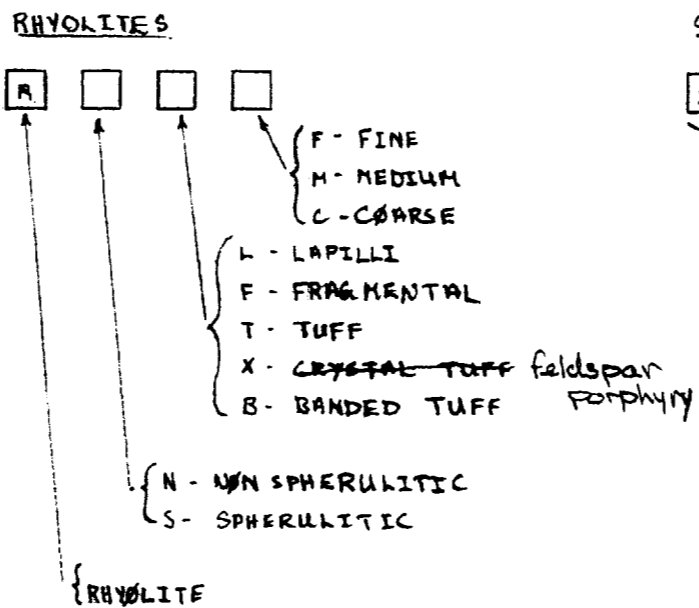
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- 1a FRAGMENTAL AND LAPILLI
 - 1b TUFF
 - 1c BANDED TUFF
 - 1d SPHERULITIC TUFF
 - 1e BANDED SPHERULITIC TUFF
 - 1f ~~CRYSTAL TUFF~~ Rhyolite feldspar porphyry

- DACITES AND RHYODACITES
- 2a RHYODACITE (LAPILLI - FRAGMENTAL)
 - 2b RHYODACITE TUFF
 - 2c DACITE (LAPILLI - FRAGMENTAL)
 - 2d DACITE TUFF
 - 2e DACITE ~~X-TUFF~~ feldspar porphyry.

- ANDESITE / DACITE
- 3a AND / DACITE TUFF
 - 3b AND FLOW
 - 3c AND DYKE

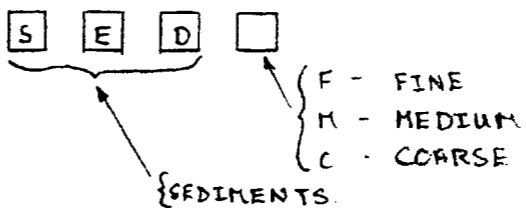
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- 4a FINE
 - 4b MEDIUM
 - 4c COARSE

GEOCODING ROCK TYPES



DIOR - DIORITE

SEDIMENTS



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*
)
+
=
etc } - USED FOR UNUSUALLY LARGE AMOUNTS

Bill, the only other changes to the geology form were with quartz and pyrite. Bill Green and Jerry are aware of these changes though.