A DRAWPD example back

The following draws a part of the NCKFMASH *PT* pseudosection that is featured elsewhere in the documentation. It focuses on a small part around where biotite + sillimanite reacts to garnet + cordierite across divariant and trivariant fields.

The datafile is

```
2     % no of variables in each line of data,
      % in this case, P, T and V

7     % 8 (NCKFMASH) - 1 (+q)

2 1   % which columns to be x,y in phase diagram

% ----------------------------
i18    liq ksp bi g sill  - pl cd

5.44  751.0

% ----------------------------
i19    liq ksp pl bi sill  - cd g

4.64  726.7

% ----------------------------
i21    liq ksp bi cd g  - pl sill

4.91  736.8

% ----------------------------
i22    liq ksp pl bi cd  - g sill

4.23  718.0

% ----------------------------
u31  liq ksp bi g sill  - pl

i18 end

5.00  753.4
5.50  750.6
6.00  747.2
6.50  743.3
7.00  738.8
7.50  734.3
8.00  729.5

% ----------------------------
u32    liq ksp bi g sill  - cd

i18 end

5.00  732.8
5.50  753.3
```

```
6.00  772.6
6.50  791.3
7.00  809.7


% ----------------------------
u35    liq ksp pl bi sill  - g

i19 end

4.50  727.1
5.00  725.4
5.50  723.0
6.00  719.9
6.50  716.4
7.00  712.5


% ----------------------------
u37    liq ksp pl bi g sill  - cd

i18 i19

4.80  731.3
5.00  737.3
5.20  743.4
5.40  749.7


% ----------------------------
u38    liq ksp pl bi sill  - cd

begin i19

3.40  667.7
3.80  686.7
4.20  705.7
4.60  724.6
5.00  743.4


% ----------------------------
u40    liq ksp bi cd g  - sill

i21 end

4.00  700.9
4.40  717.4
4.80  732.8
5.20  747.2
5.60  761.3
6.00  775.3


% ----------------------------
u41    liq ksp pl bi cd g  - sill

i21 i22

4.40  722.6
4.60  728.1
```

2

```
4.80   733.7

% ----------------------------
u42    liq ksp pl bi cd  - sill

begin i22

3.00   660.0
3.50   683.7
4.00   707.3
4.50   730.8
5.00   754.2

% ----------------------------
u43

i18 i21 connect

% ----------------------------
u44

i19 i22 connect

% ----------------------------
u50    liq ksp bi cd g  - pl

begin i21

3.00   757.8
3.50   752.4
4.00   746.8
4.50   741.3
5.00   735.8
5.50   730.6
6.00   725.7

% ----------------------------
u51    liq ksp pl bi cd  - g

begin i22

3.00   734.6
3.50   727.4
4.00   720.8
4.50   714.9
5.00   709.5

*

0.85 u35 u37 u31
0.85 u32 u43 u40
0.85 u38 u44 u42
0.85 u51 u41 u50

0.7 u35 u38
0.7 u31 u32
```

```
0.7 u40 u50
0.7 u42 u51


*


window  700 770  3.5 6      % T,P window
bigticks 20 700  0.5 3.5    % main T ticks at 20 intervals, starting at 640
                           % main P ticks at 1 kbar intervals, starting at 2
smallticks 5 0.2            % minor T,P ticks
darkcolour 255 200 0        % red green blue => Illustrator RGB


*
```

The logfile is

```
running at 20.35 on Sun 6 May,2001
data filename : suffix to "dr d" : nck1
reading data from this file ...
  i18) liq ksp bi g sill (pl cd)
  i19) liq ksp pl bi sill (cd g)
  i21) liq ksp bi cd g (pl sill)
  i22) liq ksp pl bi cd (g sill)
  u31) liq ksp bi g sill (pl) - 7 data points
  u32) liq ksp bi g sill (cd) - 5 data points
  u35) liq ksp pl bi sill (g) - 6 data points
  u37) liq ksp pl bi g sill (cd) - 4 data points
  u38) liq ksp pl bi sill (cd) - 5 data points
  u40) liq ksp bi cd g (sill) - 6 data points
  u41) liq ksp pl bi cd g (sill) - 3 data points
  u42) liq ksp pl bi cd (sill) - 5 data points
  u43) line - connect
  u44) line - connect
  u50) liq ksp bi cd g (pl) - 7 data points
  u51) liq ksp pl bi cd (g) - 5 data points

areas
  1)   u35 u37 u31
  2)   u32 u43 u40
  3)   u38 u44 u42
  4)   u51 u41 u50
  5)   u35 u38
  6)   u31 u32
  7)   u40 u50
  8)   u42 u51

window: x = 700.0 <=> 770.0; y = 3.5 <=> 6.0

postscript output will be found in the file, "drnck1.ps" (from prefs)
```

The top Fig on the next page is the postscript output as represented by Illustrator, and the bottom Fig is the hand-labelled equivalent.

rp 6·5·01

drawpd v1.0 (running at 20.35 on Sun 6 May,2001)

NCKFMASH (+q+ksp)

P

g sill
bi liq

g sill
pl bi
liq

g cd sill bi liq

sill pl
bi liq

g cd
bi liq

sill cd
pl bi liq

g cd
pl bi liq

cd pl
bi liq

T