

THE UNIVERSITY OF TEXAS
BUREAU OF ECONOMIC GEOLOGY
PETER T. FLAWN, DIRECTOR

THE UNIVERSITY OF TEXAS BUREAU OF ECONOMIC GEOLOGY
PROGRAMMER DIETRICH PROGRAM NUMBER EG-002
JUNE 1962 CODE NAME SCATTER

PLOT THREE SCATTER DIAGRAMS AND
THREE CUMULATIVE CURVES

PROGRAM SCATTER
CALL TIME (1HP)

PROGRAM REQUIREMENTS

0 DIMENSION BBA(45,31),LBA(45,31),REA(45,31),LEA(45,31),BEB(31,31),
1 LEB(31,31),KD(3,1300),CNT(9,73),LCNT(6,8),LPTST(2,2),MXTST(3,31),
2 DIAG(5,3),PAGE(4,4),KXA(104),KXB(104),KXE(104),KXN(104),
3 SCALE(71),NAME(8),KT(3),CP(15,70),WI(10),WE(10),WN(10),TS(17),
4 TW(10), CURVE(5,3), HOLD(5), LPB(45,31), BPB(45,31)
5 COMMON BBA,LBA,SEA,LEA,BEB,LEB,KD,CNT,LPTST,MXTST,DIAG,PAGE,
1 KXA,KXB,KXE,KXN,SCALE,NAME,KT,CP,WI,WE,WN,TS,TW,CURVE,HOLD,LPB,
2 RPB

Reserve cells in core.

1 FORMAT(2(8A8 //), 9I2, 4I2, 6(/5A8),3(/10A8))
2 FORMAT(8A8, 16, 16)
3 FORMAT(13X,15,5X,15,25X,15)
Formats, data cards. 1--Preliminary, 2--Block lead, 3--Specimen.

10 0 FORMAT (1H1/32X,7A8,24X,A8/49X,22H SUMMARY DATA SHEET 41X, 8H
1 SUMMARY //16X,21H INDIVIDUALS COUNTED 53X,18H SCATTER DIAGRAM
2 /9X, 38H TOTAL A=VALUE B=VALUE E=VALUE 39X, 26H B=VS-A
3 E=VS-A E=VS-B //4X,4I10,13X,30H INDIVIDUALS COMPUTER PLOTTED
4 14,219/57X,30H PAGE REQUIREMENT -- X VALUES 14,219, / 19, 41H
5 INDIVIDUALS RECORDED FOR HAND PLOTTING 7X, 30H PAGE REQUIREMENT
6 -- Y VALUES 14, 219 ///)
11 0 FORMAT (32X,56H RECORDED DATA --- ONE OR MORE VALUES TOO LARGE TO
1 PLOT //15H SPECIMEN NO. 2614 /15H HEIGHT (A) 2614 / 15H
2 WIDTH (B) 2614 /15H ORNAMENTS (E) 2614 ///)
20 0 FORMAT (1H1/32X,7A8,24X,A8/49X,22H SUMMARY DATA SHEET 41X, 8H
1 RANGE OF ALL DIAGRAMS. //)
21 0 FORMAT (38H OVERSIZE DATA EXCEED PRINT FORMAT. / 10H DATA FOR
1 I3, 26H INDIVIDUALS FOLLOWING NO. 14,18H ARE NOT PRINTED.)

Formats, summary data sheet. Numbers 10, 11, 20 and 21.

12 0 FORMAT (1H1/32X,7A8,24X,A8/44X,4A8,36X,A8/8X,14,28H POINTS PLOTTED
1 BY COMPUTER 11X,17H SCATTER DIAGRAM 12X, 14, 20H INDIVIDUALS,
2 TOTAL 8X,A8 //10H NUMBER 22F5,0 //10H NO. SCALE F6,1,20F5,1,
3 F4,0 // (/ 1X,F4,0, F5,1, 22F5,0 / 10X, 22A5))
14 0 FORMAT (1H1/84X,3(4X,A8) //(/ 1X,F4,0, F5,1, 22F5,0 / 10X, 22A5))
15 0 FORMAT (// 10H SCALE F6,1, 20F5,1, F4,0 ///)
16 0 FORMAT (1H1/ 3(112X,A8/1) /23F5,0,5H NO. //F6,1,21F5,1,F4,0,
1 5H SC. // (23F5,0,F5,1 / 23A5))
18 0 FORMAT (1H1/84X, 3(4X,A8) //(/ 23F5,0, F5,1, 23A5))
19 0 FORMAT (// F6,1, 21F5,1, F4,0, 5H SC. ///)

32 0 FORMAT (1H1/32X,7A8,24X,A8/44X,4A8,36X,A8/8X,32H 9-POINT ACCUMULA
1 TIONS ONLY 11X,17H SCATTER DIAGRAM 12X, 14, 20H INDIVIDUALS,
2 TOT L 8X, 8 //10H 544259 6 8
3 F4,0 //(/ 1X,F4,0, F5,1, 110H
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Formats, scatter diagram. Plots of basic and accumulated data use
numbers 12, 14, 15, 16, 18, and 19. Plots of accumulated data only,
use numbers 15, 19, 32, 34, 36, and 38.

301 0 FORMAT (1H1 / 1X, 11A8, 14X, F6,0, 10H SPECIMENS // 16H PERCENT
1 SCALE 38X, 34H PERCENT SMALLER THAN SCALE VALUE / 14X,
2 104H 0. 10. 20. 30. 40. 50.
3 60. 70. 80. 90. 100. / (F7,1, F8,1,
4 1X, 13A8 /1)
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Formats, cumulative curve.

22 0 FORMAT (7A8 / 38H DATA COUNT TOO LARGE FOR DATA BLOCK. ///)
Format, error, data overload.

PRELIMINARY OPERATIONS

41 0 READ 1, ((PAGE(I,J),I=1,4,1),J=1,4,1), ((MXTST(I,J),I=1,3,1),J=1,
1 3,1),((LPTST(I,J),I=1,2,1),J=1,2,1), ((DIAG(I,J),I=1,5,1),J=1,3,1)
2 1, ((CURVE(I,J),I=1,5,1),J=1,3,1), (WI(I),I=1,10,1), (WN(I),I=1,10,
3 1), (WE(I),I=1,10,1)