

A P P E N D I X III

APPENDIX - III

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JOB,      2956 1B
          PROGRAM CONSTANT
          DIMENSION A(12), BB(12), B(40), V(40)
          READ 301, - (A (I), I=1, 12)
          READ 302,   (BB(I), I=1, 12)
          READ 304,   (B (I), I=1, 40)

304      FORMAT (10F8.4)
          READ 305, (V(I), I=1, 40)
302      FORMAT (12F5.3)
305      FORMAT (10F8.4)
301      FORMAT (12F5.3)
          PRINT 510, (A(I), I=1, 12)
510      FORMAT (/ , 5X, * A= *, 12 F8.4)
          PRINT 520, (BB(I), I=1, 12)
520      FORMAT (/ , 5X, * BB = *, 12F8.4)
          PRINT 430
430      FORMAT (/ , 10X, * THE VALUES ARE PH READINGS
              ,/)
          PRINT 410, (B (I), I=1, 40)
410      FORMAT (/ , 10X 10F10.4)
          PRINT 440
440      FORMAT (/ , 10X, 10F10.4)
          DO 600 K=1, 40 "VV=V(K)" BA=B(K)"
          AA = 0.83 "AK = 13.89 VT = VV+50"
          "CM = 0.0550/VT "CHOH = 0.44665/VT" .

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HCL = 0.25/VT "COH=0.214*VV/VT "AM2=1.59*
(CH - COH)+2 * COH + HCL
DO 100 I = 1, 12
IF (A(I), GT, AM2) 101, 102
101 J=I "GOTO 104"
102 CONTINUE
100 CONTINUE
104 H1=BB(J) " H2=BB(J-1)
PRINT 201, H1, H2
201 FORMAT (5X, * H1 = *, P8.5, * H2 = *, P8.5)
GAMA=BB(J-1)+ (AM2-A(J-1)) (BB(J)-BB(J-1))/
(A(J)-A(J-1))/
203 FORMAT (5X, *GAMA*, P8.5)
AM3=BA-GAMA+AA "AM3=-2.30258*AM3
" H = EXPF (AM3)
PRINT 203, AM3, H
204 FORMAT (5X, * AM3=*, E15.8, *H= *, E15.8)
QH=EXPF (2.30258* (AK-2*GAMA)
PRINT 500, QH
500 FORMAT (5X, *QH=*, E15.8)
CH = (CHCH-COH-H+HCL)/(H*QH)
AM = (CHCH- (QH*H+1)CH)/CM
PRINT 105, AM, J, CH
105 FORMAT (5X, *AM=*, E15.8, *J=*, 120,
*CH=*, E15.8)
600 CONTINUE

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