

APPENDIX V.

Data Reduction Program

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20 INPUT "INPUT FILE NAME";F$
50 OPEN "O",#1,F$
  0 INPUT "RUN NO.=";RN$
  5 PRINT #1,RN$
70 INPUT "CATALYST DESCRIPTION";CATDES$
75 PRINT #1,CATDES$
  0 INPUT "CATALYST SAMPLE NO.=";SN$
  5 PRINT #1,SN$
90 INPUT "TEMPERATURE (C)=";TEMP
  5 PRINT #1,TEMP
  00 INPUT "PRESSURE (PSIG)=";PRES
105 PRINT #1,PRES
110 INPUT " TOTAL GRAMS OF HOT TRAP HYDROCARBON ";HTHC
  15 PRINT #1,HTHC
120 INPUT "TOTAL GRAMS OF CS2 ADDED TO HOT TRAP HYDROCARBON";CSHT
125 PRINT #1,CSHT
  30 INPUT "TOTAL GMS OF COLD TRAP HYDROCARBONS";CTHC
  35 PRINT #1,CTHC
140 INPUT "TOTAL GRAMS OF CS2 ADDED TO COLD TRAP HYDROCARBONS";CSCT
145 PRINT #1,CSCT
  50 INPUT "CO2 ADSORPTION (MG/GM) FOR THIS CATALYST";CO2A
155 PRINT #1,CO2A
160 INPUT "CO PK AREA IN FEED";A
  65 PRINT #1,A
  70 INPUT "CO PEAK AREA IN TAIL GAS";B
175 PRINT #1,B
  30 INPUT "H2 PK AREA IN FEED";D
  35 PRINT #1,D
240 INPUT "H2 PK AREA IN TAIL GAS";E
245 PRINT #1,E
  60 INPUT " CO2 PK AREA IN TAIL GAS"; PKACO2
265 PRINT #1,PKACO2
280 INPUT " TOTAL FLOW RATE (sccm)";G
  85 PRINT #1,G
  90 INPUT "EXIT GAS FLOW RATE (SCCM)";EFR
295 PRINT #1,EFR
300 INPUT "TOTAL TIME ONSTREAM (HRS)";K
  05 PRINT #1,K
310 INPUT " % CO IN FEED ";M
315 PRINT #1,M
  20 INPUT " % H2 IN FEED ";L
  25 PRINT #1,L
400 INPUT "ARE THESE VALUES CORRECT? YES OR NO";Y$
  05 PRINT #1,Y$
  30 INPUT "PK AREA OF C1?";PKA1
435 PRINT #1,PKA1
440 INPUT "PK AREA OF C2?";PKA2
  45 PRINT #1,PKA2
  50 INPUT "PK AREA OF C3?";PKA3
455 PRINT #1,PKA3
  60 INPUT "PK AREA OF C4?";PKA4
  65 PRINT #1,PKA4
470 INPUT "PK AREA OF C5?";PKA5
475 PRINT #1,PKA5
  30 INPUT "PK AREA OF C6?";PKA6
485 PRINT #1,PKA6
490 INPUT "PK AREA OF C7?";PKA7
  95 PRINT #1,PKA7
  30 INPUT "ARE THESE VALUES CORRECT? YES OR NO";X$
505 PRINT #1,X$
530 INPUT "PK AREA OF C5?";PKA52
  35 PRINT #1,PKA52
540 INPUT "PK AREA OF C6?";PKA62
545 PRINT #1,PKA62

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545 PRINT #1,PKA62
550 INPUT "PK AREA OF C77";PKA72
555 PRINT #1,PKA72
560 INPUT "PK AREA OF C87";PKA82
565 PRINT #1,PKA82
570 INPUT "PK AREA OF C97";PKA92
575 PRINT #1,PKA92
580 INPUT "PK AREA OF C107";PKA10
585 PRINT #1,PKA10
590 INPUT"PK AREA OF C117";PKA11
595 PRINT #1,PKA11
600 INPUT "PK AREA OF C127";PKA12
605 PRINT #1,PKA12
610 INPUT "PK AREA OF C13 ";PKA13
615 PRINT #1,PKA13
620 INPUT "PK AREA OF C147";PKA14
625 PRINT #1,PKA14
630 INPUT"PK AREA OF C157";PKA15
635 PRINT #1,PKA15
640 INPUT "PK AREA OF C167";PKA16
645 PRINT #1,PKA16
650 INPUT"PK AREA OF C177";PKA17
655 PRINT #1,PKA17
660 INPUT "PK AREA OF C187";PKA18
665 PRINT #1,PKA18
670 INPUT"PK AREA OF C197";PKA19
675 PRINT #1,PKA19
680 INPUT "PK AREA OF C207";PKA20
685 PRINT #1,PKA20
690 INPUT"PK AREA OF C217";PKA21
695 PRINT #1,PKA21
700 INPUT "PK AREA OF C227";PKA22
705 PRINT #1,PKA22
710 INPUT"PK AREA OF C237";PKA23
715 PRINT #1,PKA23
720 INPUT "PK AREA OF C247";PKA24
725 PRINT #1,PKA24
730 INPUT"PK AREA OF C257";PKA25
735 PRINT #1,PKA25
740 INPUT "PK AREA OF C267";PKA26
745 PRINT #1,PKA26
750 INPUT "ARE THESE VALUES OK? YES OR NO";Z$
755 PRINT #1,Z$
760 INPUT "PK AREAS FOR C12 C14 C16 C18 STDS.";PKASC12,PKASC14,PKASC16,PKASC18
765 PRINT #1,PKASC12,PKASC14,PKASC16,PKASC18
770 CLOSE #1
775 END

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0 DIM G(40),X(40),Y(40),GFR(40),W(40),CN(40),Z(40),SY(40),SX(40),SXY(40)
20 DIM SXZ(40),SXSX(40),Q(40),R(26),MW(26),MOLES(26),EQMCO(40),TOTEQMOLCO(40)
70 DIM GFRA(10),CNA(10),WA(10),ZA(10),SYA(10),SXA(10),SXYA(10),SXZA(10)
0 DIM J(50),ZB(40)
.5 INPUT "INPUT NAME OF DATA FILE";F$
50 OPEN "I",#1,F$
70 INPUT #1,RN$
0 INPUT #1,CATDESS$
80 INPUT #1,SN$
90 INPUT #1,TEMP
00 INPUT #1,PRES
110 INPUT #1,HTHC
120 INPUT #1,CSHT
30 INPUT #1,CTHC
40 INPUT #1,CSCT
150 INPUT #1,CO2A
160 INPUT #1,A
70 IF A=0 THEN END
180 GHTHCI = HTHC*.002/((HTHC*1.38)+(CSHT*.794))
190 IF CTHC=0 GOTO 210
00 GCTHCI=CTHC*.002/((CTHC*1.38)+(CSCT*.794))
10 INPUT #1,B
220 C=((A-B)/A)*100
30 INPUT #1,D
40 INPUT #1,E
250 F=((D-E)/D)*100
260 INPUT #1, PKAC02
70 MOLECO2 = PKAC02*3.44E-11
30 INPUT #1,G
290 INPUT #1,EFR
00 INPUT #1,K
10 INPUT #1,M
320 INPUT #1,L
330 N = M*G*K*.0027/100
40 H = N*C/100
350 RCO=H/(K*3600*(CO2A*14.65))
360 O = L*G*K*.0027/100
70 JA = O * F/100
30 RH2=J/(K*3600*(CO2A*14.65))
390 EM=EFR*K*.0027
00 INPUT #1,Y$
40 IF Y$="NO" GOTO 60
420 PRINT"ENTER THE PK AREAS FOR C1 TO C7 HYDROCARBONS IN ORDER"
430 INPUT #1,PKA1
440 INPUT #1,PKA2
450 INPUT #1,PKA3
460 INPUT #1,PKA4
470 INPUT #1,PKA5
480 INPUT #1,PKA6
490 INPUT #1,PKA7
500 INPUT #1,X$
510 IF X$="NO" GOTO 420
520 PRINT"ENTER THE PK AREAS FOR C5 TO C10 AND THEN EVERY EVEN # PK TO C26 FROM THE
530 INPUT #1,PKA52
540 INPUT #1,PKA62
550 INPUT #1,PKA72
560 INPUT #1,PKA82
570 INPUT #1,PKA92
580 INPUT #1,PKA10
590 INPUT #1,PKA11
600 INPUT #1,PKA12

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610 INPUT #1,PKA13
620 INPUT #1,PKA14
630 INPUT #1,PKA15
640 INPUT #1,PKA16
650 INPUT #1,PKA17
660 INPUT #1,PKA18
670 INPUT #1,PKA19
680 INPUT #1,PKA20
690 INPUT #1,PKA21
700 INPUT #1,PKA22
710 INPUT #1,PKA23
720 INPUT #1,PKA24
730 INPUT #1,PKA25
740 INPUT #1,PKA26
750 PRINT PKA52, PKA62, PKA72, PKA82, PKA92, PKA10, PKA12, PKA14, PKA16, PKA18, PKA20, PKA
60 INPUT #1,Z$
70 IF Z$="NO" GOTO 520
780 INPUT #1,PKASC12,PKASC14,PKASC16,PKASC18
790 SPKAS = PKASC12+PKASC14+PKASC16+PKASC18
800 ZZZ= SPKAS*(3.1E-08)
810 X(1)=PKA1*9.09E-08*EM
820 X(2)=PKA2*7.54E-08*EM
830 X(3)=PKA3*8.979999E-08*EM
840 X(4)=PKA4*9.219999E-08*EM
850 X(5)=PKA5*8.86E-08*EM
860 X(6)=PKA6*9.199999E-08*EM
870 X(7)=PKA7*1.07E-07*EM
880 Y(5)=PKA52*4.3E-12/ZZZ
890 Y(6)=PKA62*4.4E-12/ZZZ
900 Y(7)=PKA72*4.1E-12/ZZZ
910 Y(8)=PKA82*4.1E-12/ZZZ
920 Y(9)=PKA92*4.2E-12/ZZZ
930 Y(10)=PKA10*4.3E-12/ZZZ
940 Y(11)=PKA11 * 4.33E-12/ZZZ
950 Y(12)=PKA12*4.2E-12/ZZZ
960 Y(13)=PKA13 * 4.2E-12/ZZZ
970 Y(14)=PKA14*3.3E-12/ZZZ
980 Y(15)=PKA15 * 3.3E-12/ZZZ
990 Y(16)=PKA16*3.3E-12/ZZZ
1000 Y(17)=PKA17 * 3.3E-12/ZZZ
1010 Y(18)=PKA18*3.3E-12/ZZZ
1020 Y(19)=PKA19 * 3.3E-12/ZZZ
1030 Y(20)=PKA20*3.1E-12/ZZZ
1040 Y(21)=PKA21 * 3.1E-12/ZZZ
1050 Y(22)=PKA22*3.2E-12/ZZZ
1060 Y(23)=PKA23 * 3.2E-12/ZZZ
1070 Y(24)=PKA24*3.8E-12/ZZZ
1080 Y(26)=PKA26*4E-12/ZZZ
1090 Y(25)=PKA25*3.8E-12/ZZZ
1100 V=0
1110 FOR J=5 TO 26
1120 V= V + Y(J)/GHTHCI
1130 NEXT J
1140 FOR J= 5 TO 26
1150 ZB(J)=Y(J)/V
1160 NEXT J
1170 G(1)=X(1)
1180 G(2)=X(2)
1190 G(3)=X(3)
1200 G(4)=X(4)
1210 G(5)=X(5)+((ZB(5)/GHTHCI)*HTHC)
1220 G(6)=X(6)+((ZB(6)/GHTHCI)*HTHC)
1230 G(7)=X(7)+((ZB(7)/GHTHCI)*HTHC)
1240 FOR X=8 TO 26
1250 G(X)=((ZB(X)/GHTHCI)*HTHC)
1260 NEXT X

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1270 REM ***** CARBON BALANCE CALCULATION *****
1280 PRINT
1290 PRINT
1300 PRINT
1310 PRINT
1320 PRINT
1330 C1M=PKA1*4.65E-14
1340 C2M=PKA2*2.39E-14
1350 C3M=PKA3*1.66E-14
1360 C4M=PKA4*1.3E-14
1370 C5M=PKA5*1E-14
1380 C6M=PKA6*8.759999E-15
1390 C7M=PKA7*8.759999E-15
1400 TOTLHCFID=C1M+C2M+C3M+C4M+C5M+C6M+C7M
1410 FRLHCFID=TOTLHCFID/8.17E-06
1420 TMTCD=.0000327
1430 FRCOTCD=(B*2.64E-11)/TMTCD
1440 FRCO2TCD=MOLECO2/TMTCD
1450 FRH2TCD=(E*2.58E-12)/TMTCD
1460 EMCO=FRCOTCD*EM
1470 EMCO2=FRCO2TCD*EM
1480 EMH2=FRH2TCD*EM
1490 EMLHC=FRLHCFID*EM
1500 REM CALCULATION CONTINUED ON LINE 2330
1510 REM ***** END OF CALCULATION *****
1520 PRINT "CN"TAB(5)"G(R)"TAB(20)"GFR(R)"TAB(35)"W(R)"TAB(50)"Z(R)"
1530 TA = X(3)+X(4)+X(5)+X(6)+X(7)
1540 FOR R=3 TO 7
1550 GFRA(R)=X(R)/TA
1560 CNA(R)=R
1570 WA(R)=GFRA(R)/CNA(R)
1580 ZA(R)= LOG(WA(R))/LOG(10)
1590 PRINT R TAB(5)X(R)TAB(20)GFRA(R)TAB(35)WA(R)TAB(50)ZA(R)
1600 SYA=SYA +ZA(R)
1610 SXA=SXA + CNA(R)
1620 SXYA=SXYA + ZA(R)*CNA(R)
1630 SXZA=SXZA +(CNA(R))^2
1640 NEXT R
1650 QA=5
1660 ALPHAA = ((QA*SXYA)-(SXA*SYA))/((QA*SXZA)-(SXA^2))
1670 PSLOPEA = 10^(ALPHAA)
1680 BETAA= (SYA-(ALPHAA*SXA))/QA
1690 DEG.POLY.A = 1/(1-PSLOPEA)
1700 T=G(1)+G(2)+G(3)+G(4)+G(5)+G(6)+HTHC+CTHC
1710 PRINT "DATA ANALYSIS FOR RUN NO.:";RN$
1720 PRINT "CATALYST DESCRIPTION:";CATDES$
1730 PRINT "CATALYST SAMPLE NO.:";SN$
1740 PRINT"TEMPERATURE (C):";TEMP
1750 PRINT"PRESSURE (PSIG):";PRES
1760 PRINT "%CO IN FEED:";M
1770 PRINT "%H2 IN FEED:";L
1780 PRINT"TOTAL GMS OF HYDROCARBON IN HOT TRAP:";HTHC
1790 PRINT"TOTAL GMS OF HYDROCARBON IN COLD TRAP:";CTHC
1800 PRINT"TOTAL FEED RATE (SCCM):";G
1810 PRINT "EXIT GAS FLOW RATE (SCCM):";EFR
1820 PRINT "TOTAL GMS OF HYDROCARBON:";T
1830 PRINT"%CO CONVERSION:";C
1840 PRINT"%H2 CONVERSION:";F
1850 PRINT"MOLES CO FED:";N
1860 PRINT"MOLES CO CONVERTED:";H
1870 PRINT"RATE OF CO CONVERSION:";RCO
1880 PRINT"MOLES H2 FED:";O
1890 PRINT"MOLES H2 CONVERTED:";JA
1900 PRINT"RATE OF H2 CONVERSION:";RH2
1910 PRINT "CN"TAB(5)"G(R)"TAB(20)"GFR(R)"TAB(35)"W(R)"TAB(50)"Z(R)"
1920 FOR R=1 TO 26

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1930 GFR(R)=G(R)/T
1940 IF GFR(R)=0 GOTO 1980
1950 CN(R)=R
1960 W(R)=GFR(R)/CN(R)
1970 Z(R)= LOG(W(R))/LOG(10)
1980 PRINT R TAB(5)G(R)TAB(20)GFR(R)TAB(35)W(R)TAB(50)Z(R)
1990 SY=SY+Z(R)
2000 SX=SX+CN(R)
2010 SXY=SXY+Z(R)*CN(R)
2020 SXZ=SXZ+(CN(R))^2
2030 CRBN=12
2040 HYD=1
2050 LET MW(R)=CRBN*R+(2*R*HYD+2)
2060 MOLES(R)= G(R)/MW(R)
2070 EQMCO(R)= MOLES(R)*CN(R)
2080 TOTGMHC = TOTGMHC + G(R)
2090 TOTEQMOLCO = TOTEQMOLCO + EQMCO(R)
2100 NEXT R
2110 REM *****GRAM FRACTION CALCULATIONS*****
2120 LET C210=GFR(2)+GFR(3)+GFR(4)+GFR(5)+GFR(6)+GFR(7)+GFR(8)+GFR(9)+GFR(10)
2130 LET C1126=1-(GFR(1)+C210)
2140 LET C511=C210+GFR(11)-(GFR(2)+GFR(3)+GFR(4))
2150 LET C1219=GFR(12)+GFR(13)+GFR(14)+GFR(15)+GFR(16)+GFR(17)+GFR(18)+GFR(19)
2160 LET C2026=1-(C511+C1219+GFR(1)+GFR(2)+GFR(3)+GFR(4))
2170 LET C14=GFR(1)+GFR(2)+GFR(3)+GFR(4)
2180 REM*****END OF CALCULATION*****
2190 PRINT
2200 REM *****GRAMS OF HC/M3 SYNGAS*****
2210 M3=((N-EMCO)+(O-EMH2))*24.5*.001
2220 LET AA=T/M3
2230 LET R14=C14*AA
2240 LET R511=C511*AA
2250 LET R1219=C1219*AA
2260 LET R2026=C2026*AA
2265 LET CO2Y=(EMCO2*44)/M3
2270 REM *****END OF CALCULATION*****
2280 PRINT "CN"TAB(5)"G(R)"TAB(20)"MW(R)"TAB(25)"MOLES(R)"TAB(40)"EQ MOLES CO"
2290 FOR R=1 TO 26
2300 PRINT R TAB(5)G(R)TAB(20)MW(R)TAB(25)MOLES(R)TAB(40)EQMCO(R)
2310 NEXT R
2320 PRINT "TOT GM HC:";TOTGMHC,"TOT EQ MOLES CO:";TOTEQMOLCO
2330 CB=(1-((N-EMCO)-(TOTEQMOLCO+EMCO2))/(N-EMCO))*100
2340 CB2=(1-((N-(EMCO+EMCO2+TOTEQMOLCO))/N))*100
2350 SXSX=SX^2
2360 PRINT "SY=";SY,"SX=";SX,"SXZ=";SXZ,"SXY=";SXY,"SXSX=";SXSX
2370 PRINT "CARBON BALANCE DEVIATION";CB%"
2380 Q=26
2390 ALPHA =((Q*SXY)-(SX*SY))/((Q*SXZ)-(SX^2))
2400 PSLOPE= 10^(ALPHA)
2410 BETA =(SY-(ALPHA*SX))/Q
2420 DEG.POLY.=1/(1-PSLOPE)
2430 PRINT "THE SLOPE =" ;ALPHA
2440 PRINT "THE INTERCEPT =" ;BETA
2450 PRINT "POLYMERIZATION PROBABILITY=" ;PSLOPE
2460 PRINT "DEGREE OF POLYMERIZATION=" ;DEG.POLY.
2470 PRINT "THE SLOPE - GAS ANALYSIS=" ;ALPHAA
2480 PRINT "THE INTERCEPT - GAS ANALYSIS=" ;BETAA
2490 PRINT "POLYMERIZATION PROBABILITY - GAS ANALYSIS=" ;PSLOPEA
2500 PRINT "DEGREE OF POLYMERIZATION - GAS ANALYSIS=" ;DEG.POLY.A
2510 STOP
2520 INPUT "DO YOU WANT TO PRINT THIS DATA OUT";W$
2530 IF W$="YES" GOTO 2590
2540 IF W$="NO" GOTO 5000
2550 LPRINT
2560 LPRINT
2570 LPRINT

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2580 LPRINT
2590 LPRINT "DATA ANALYSIS FOR RUN NO.:";RN$
2600 LPRINT "CATALYST DESCRIPTION:";CATDES$
2610 LPRINT "CATALYST SAMPLE NO.:";SN$
2620 LPRINT "TEMPERATURE (C):";TEMP
2630 LPRINT "PRESSURE (PSIG):";PRES
2640 LPRINT "%CO IN FEED:";M
2650 LPRINT "%H2 IN FEED:";L
2660 LPRINT "TOTAL GMS OF HYDROCARBON IN HOT TRAP:";HTHC
2670 LPRINT "TOTAL GMS OF HYDROCARBON IN COLD TRAP:";CTHC
2680 LPRINT "%CO CONVERSION:";C
2690 LPRINT "%H2 CONVERSION:";F
2700 LPRINT "MOLES OF CO FED:";N
2710 LPRINT "MOLES OF CO CONVERTED:";H
2720 LPRINT "RATE OF CO CONVERSION:";RCO
2730 LPRINT "MOLES OF H2 FED:";O
2740 LPRINT "MOLES OF H2 CONVERTED:";JA
2750 LPRINT "RATE OF H2 CONVERSION:";RH2
2760 LPRINT "TOTAL EXITED MOLES=";EM
2770 LPRINT "TOTAL FEED RATE (SCCM):";G
2780 LPRINT "TOTAL GMS OF HYDROCARBON:";T
2790 LPRINT "CN"TAB(5)"G(R)"TAB(20)"GFR(R)"TAB(35)"W(R)"TAB(50)"Z(R)"
2800 FOR R=1 TO 26
2810 LPRINT R TAB(5)G(R)TAB(20)GFR(R)TAB(35)W(R)TAB(50)Z(R)
2820 NEXT R
2830 LPRINT
2840 LPRINT
2850 LPRINT
2860 LPRINT
2870 LPRINT
2880 LPRINT
2890 LPRINT
2900 LPRINT
2910 LPRINT
2920 LPRINT
2930 LPRINT
2940 LPRINT
2950 LPRINT
2960 LPRINT
2970 LPRINT
2980 LPRINT
2990 LPRINT
3000 LPRINT
3010 LPRINT "CN"TAB(5)"G(R)"TAB(20)"MW(R)"TAB(30)"MOLES(R)"TAB(45)"EQ MOLES CO(R)
3020 FOR R=1 TO 26
3030 LPRINT R TAB(5)G(R)TAB(20)MW(R)TAB(25)MOLES(R)TAB(40)EQMCO(R)
3040 NEXT R
3050 LPRINT "TOTAL GMS HC:";TOTGMHC,"TOT EQ MOLES CO:";TOTEQMOLCO
3060 LPRINT "SY=";SY,"SX=";SX,"SXZ=";SXZ,"SXY=";SXY,"SXSX=";SXSX
3070 ALPHA=((Q*SXY)-(SX*SY))/((Q*SXZ)-(SX^2))
3080 BETA=(SY-(ALPHA*SX))/Q
3090 LPRINT "THE SLOPE=";ALPHA
3100 LPRINT "THE INTERCEPT=";BETA
3110 LPRINT "POLYMERIZATION PROBABILITY=";PSLOPE
3120 LPRINT "DEGREE OF POLYMERIZATION=";DEG.POLY.
3130 LPRINT " THE SLOPE - GAS ANALYSIS=";ALPHAA
3140 LPRINT "THE INTERCEPT - GAS ANALYSIS=";BETAA
3150 LPRINT "POLYMERIZATION PROBABILITY - GAS ANALYSIS=";PSLOPEA
3160 LPRINT "DEGREE OF POLYMERIZATION - GAS ANALYSIS=";DEG.POLY.A
3170 LPRINT "TOTAL MOLES OF LIGHT HYDROCARBONS IN FID=";TOTLHCFID
3180 LPRINT "FRACTION OF MOLES OF CO IN TCD=";FRCOTCD
3190 LPRINT "FRACTION OF MOLES OF CO2 IN TCD=";FRCO2TCD
3200 LPRINT "FRACTION OF MOLES OF H2 IN TCD=";FRH2TCD
3210 LPRINT "FRACTION OF MOLES OF LIGHT HYDROCARBONS IN FID=";FRLHCFID
3220 LPRINT "EQUIVALENT MOLES OF CO=";EMCO
3230 LPRINT "EQUIVALENT MOLES OF CO2=";EMCO2

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240 LPRINT "EQUIVALENT MOLES OF H2=";EMH2
3250 LPRINT "EQUIVALENT MOLES OF LIGHT HYDROCARBONS="EMLHC
3260 LPRINT "CARBON BALANCE DEVIATION";CB"%"
270 LPRINT "CARBON BALANCE DEVIATION(2ND CALC)";CB2"%"
3280 LPRINT "C1" TAB(15) "C2-10" TAB(30) ">C10"
3290 LPRINT GFR(1) TAB(15) C210 TAB(30) C1126
300 LPRINT "C5-C11" TAB(15) "C12-C19" TAB(30) ">C19"
310 LPRINT C511 TAB(15) C1219 TAB(30) C2026
3320 LPRINT "M3 OF SYNGAS CONVERTED=";M3
3330 LPRINT "GRAMS OF HC PER M3 OF SYNGAS CONVERTED=";AA
340 LPRINT "GRAMS OF C1-C4 HC PER M3 OF SYNGAS CONVERTED=";R14
3350 LPRINT "GRAMS OF C5-C11 HC PER M3 OF SYNGAS CONVERTED=";R511
3360 LPRINT "GRAMS OF C12-C19 HC PER M3 OF SYNGAS CONVERTED=";R1219
370 LPRINT "GRAMS OF >C20 HC PER M3 OF SYNGAS CONVERTED=";R2026
3380 LPRINT "GRAMS OF CO2 FORMED PER M3 OF SYNGAS CONVERTED";CO2Y
3390 LPRINT "CN" TAB(5)"Y(R)"TAB(20)"Y(R)/GHTHCI" TAB(40)"ZB(R)"
400 FOR R=5 TO 26
410 LPRINT R TAB(5)Y(R)TAB(20)Y(R)/GHTHCI TAB(40)ZB(R)
3420 NEXT R
430 LPRINT
440 LPRINT "TOTAL OF Y(R)/GHTHCI =" ;V
3000 END
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