

Fig. 16

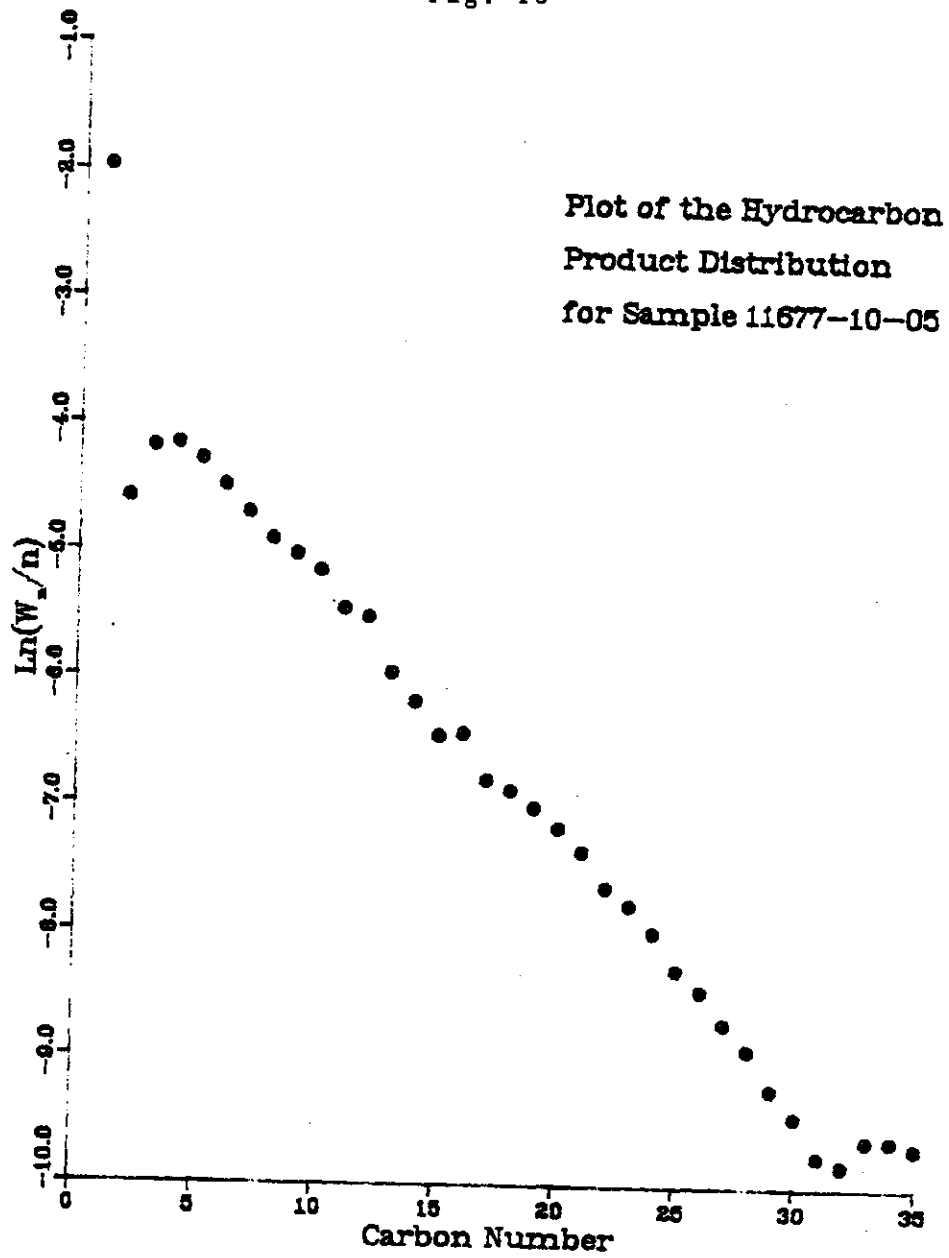


Fig. 17

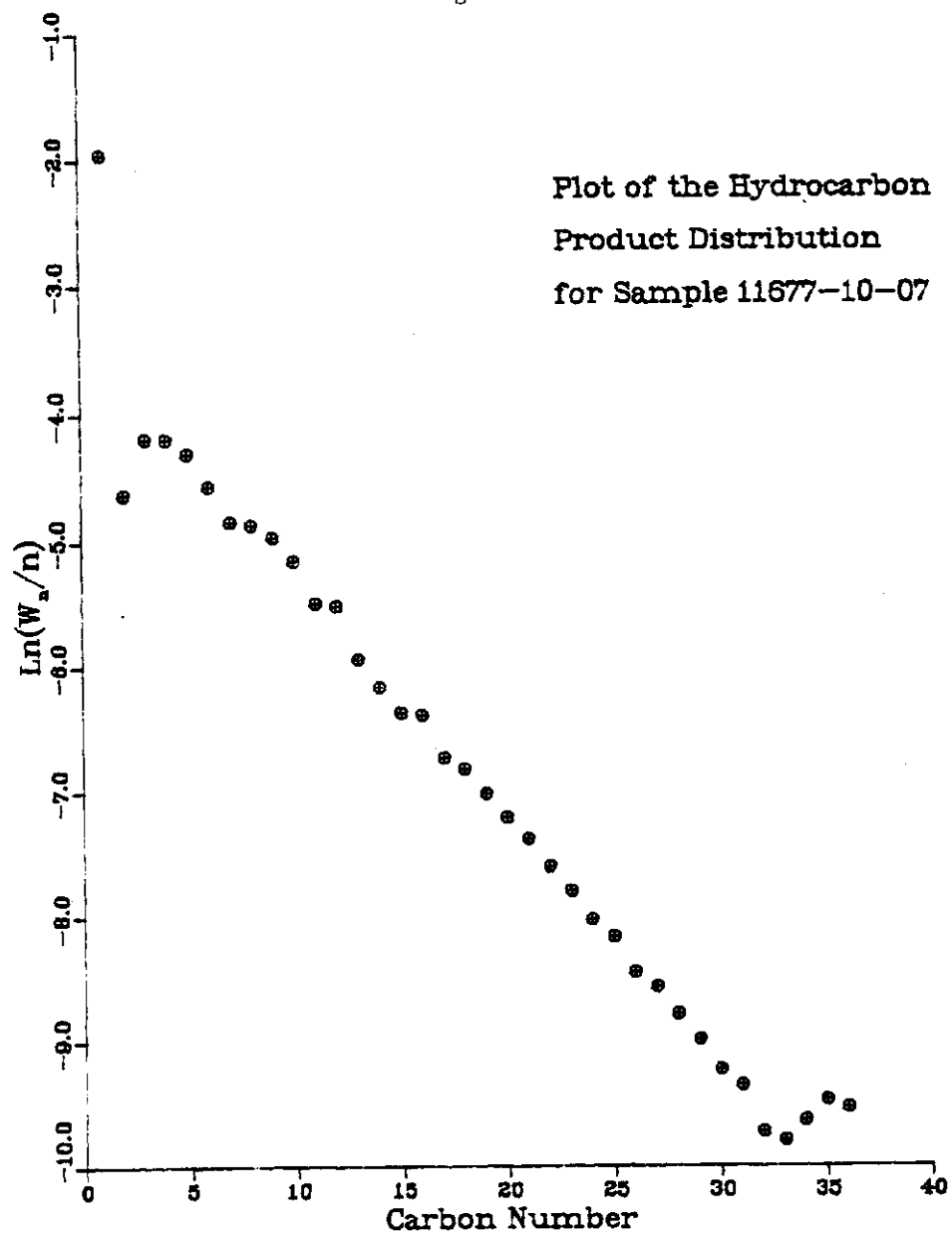


Fig. 18

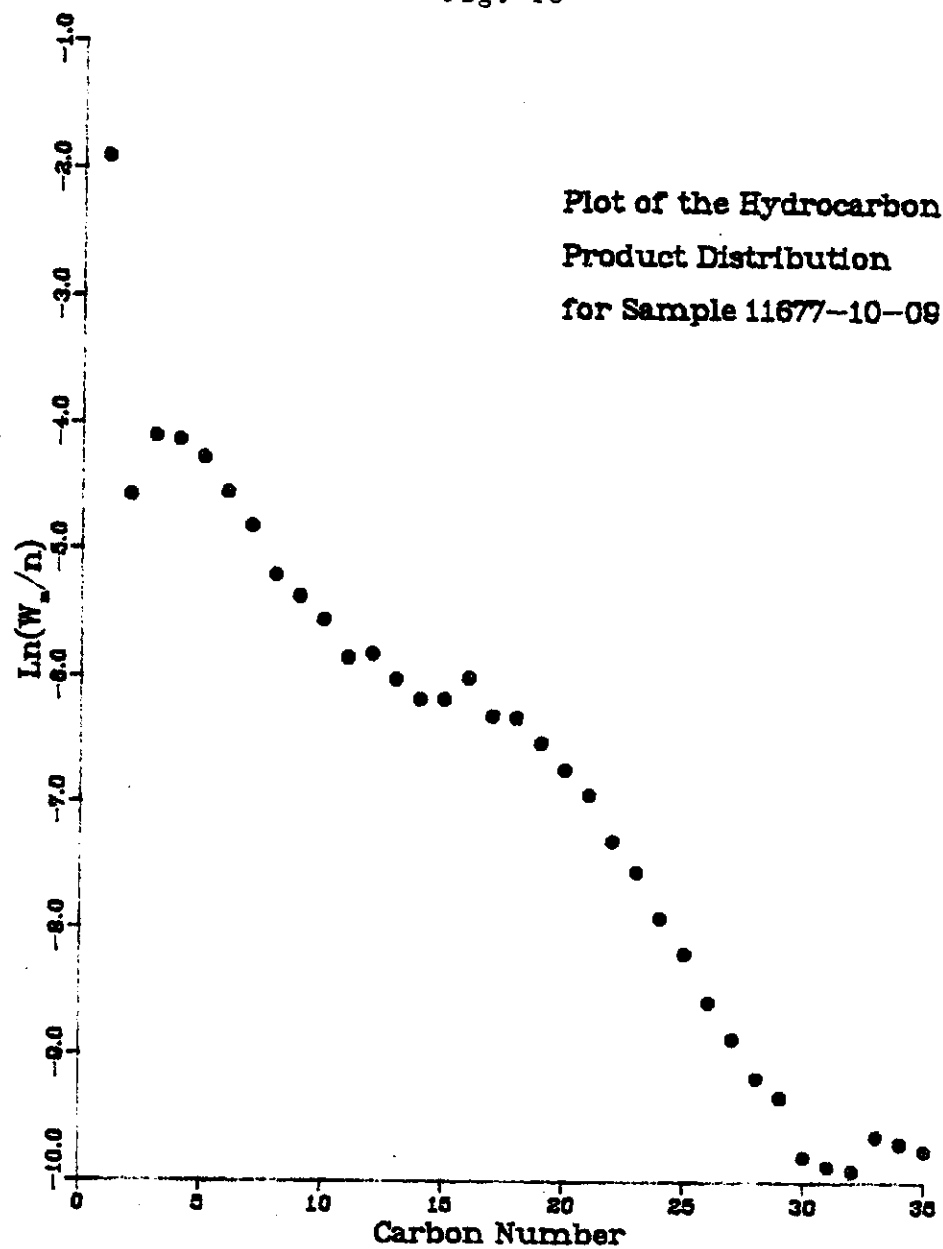


Fig. 19

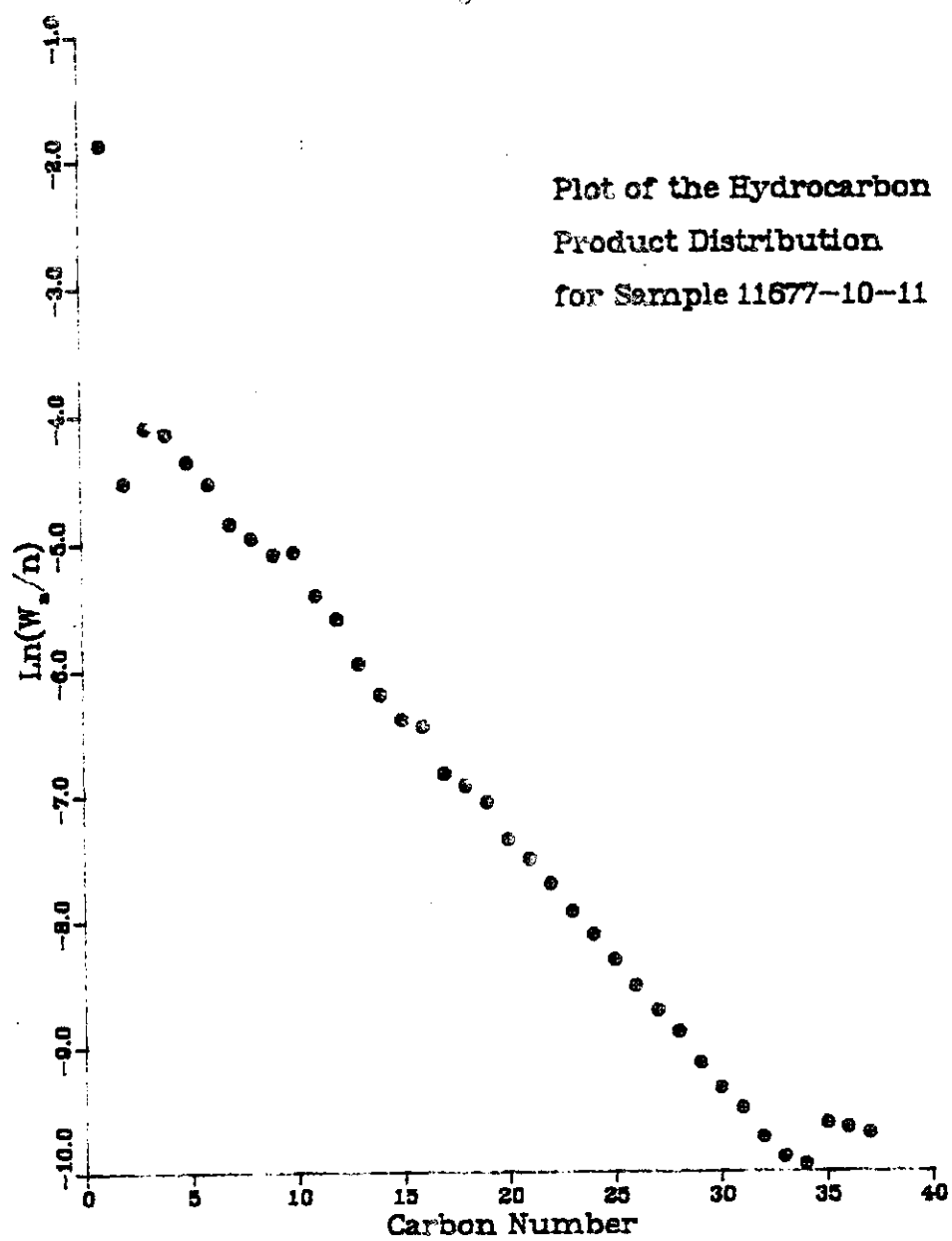


Fig. 20

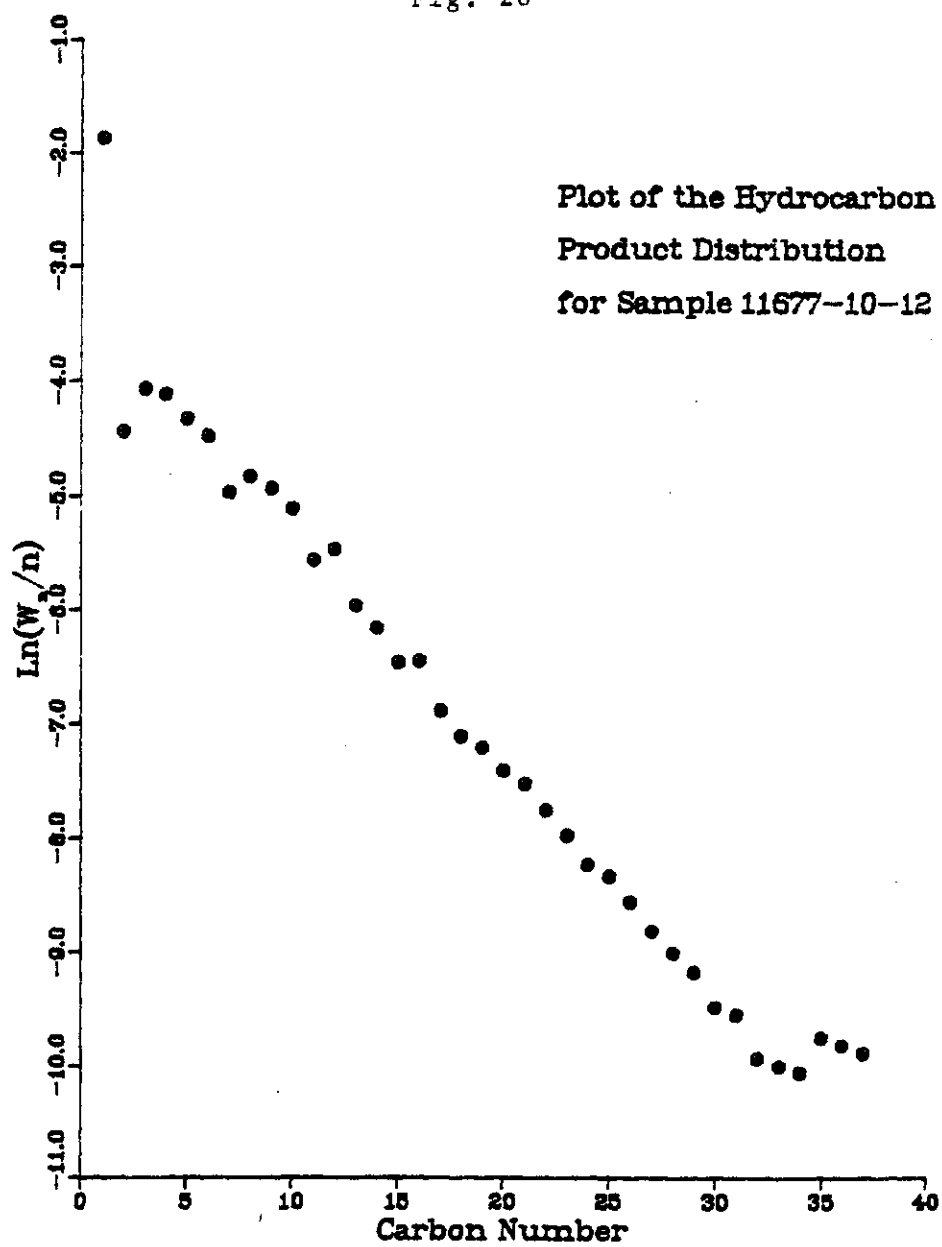


Fig. 21

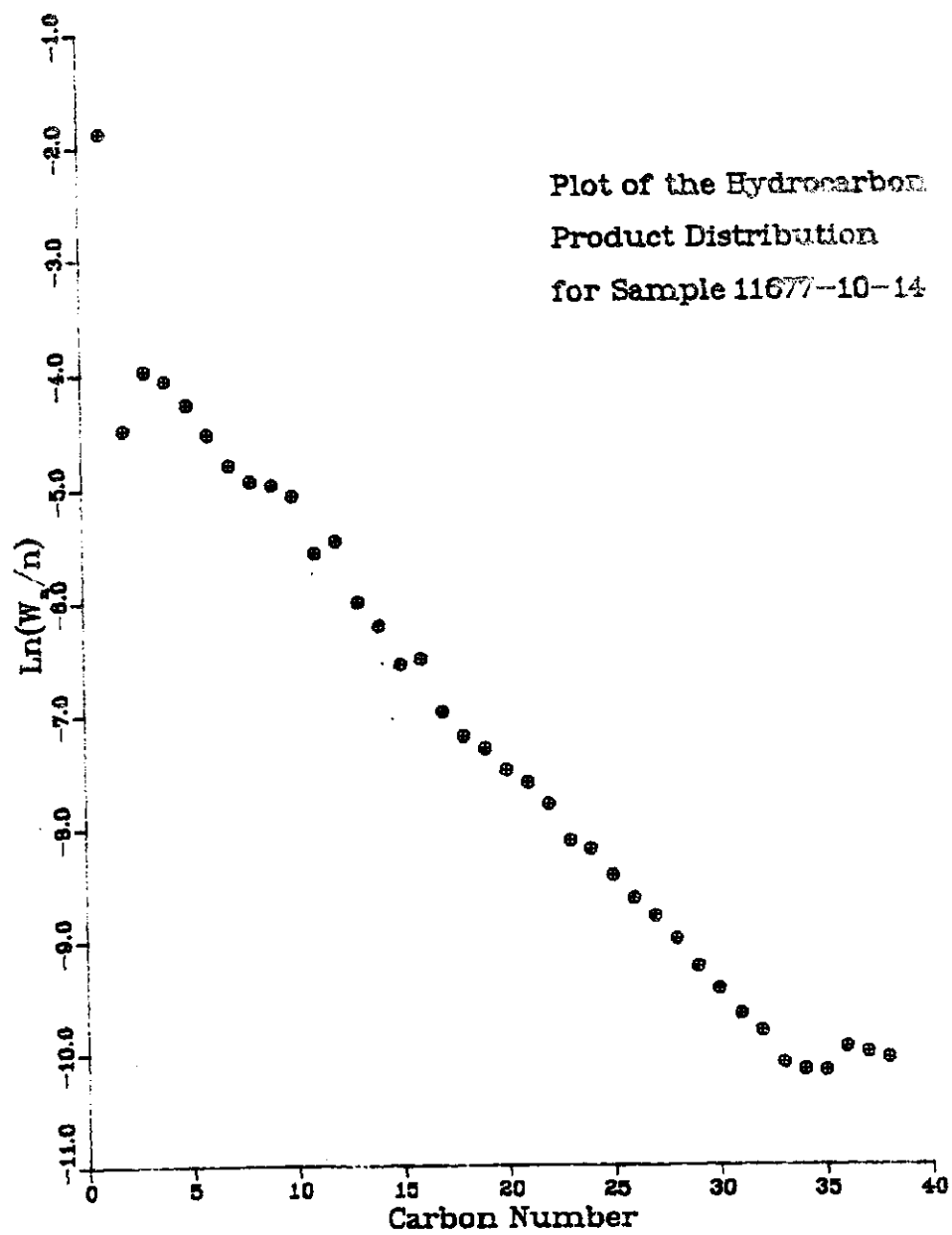


Fig. 22

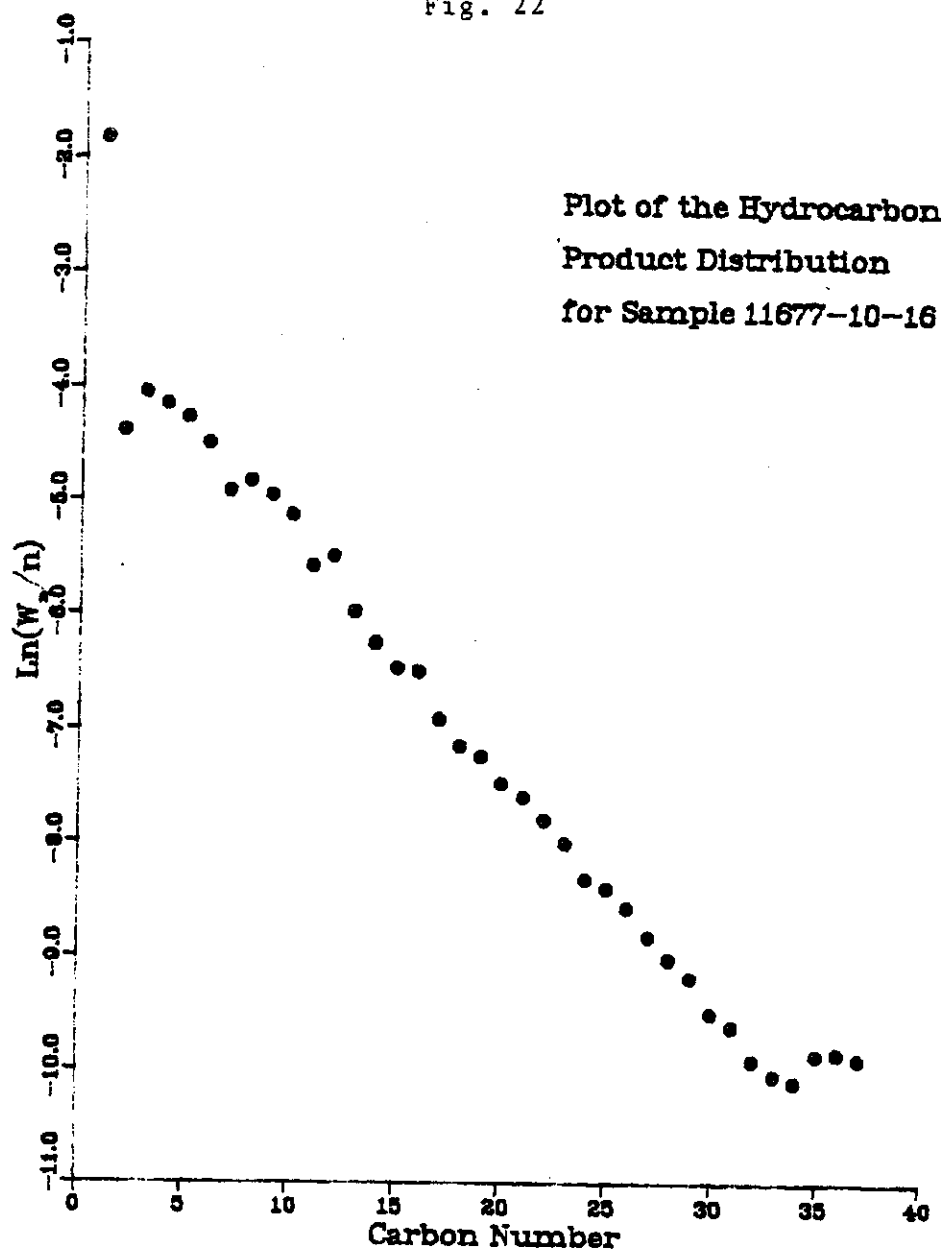


Fig. 23

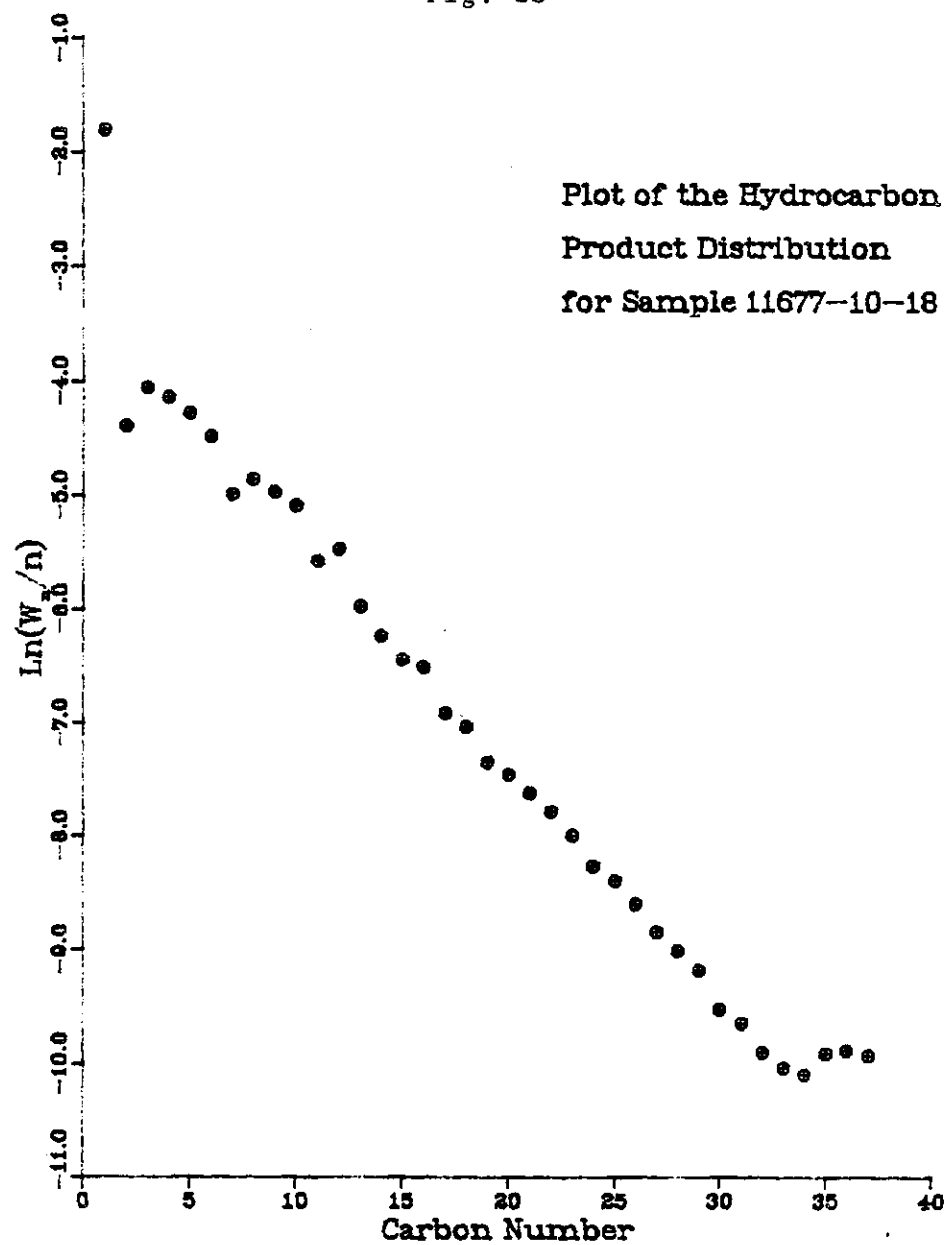


Fig. 24

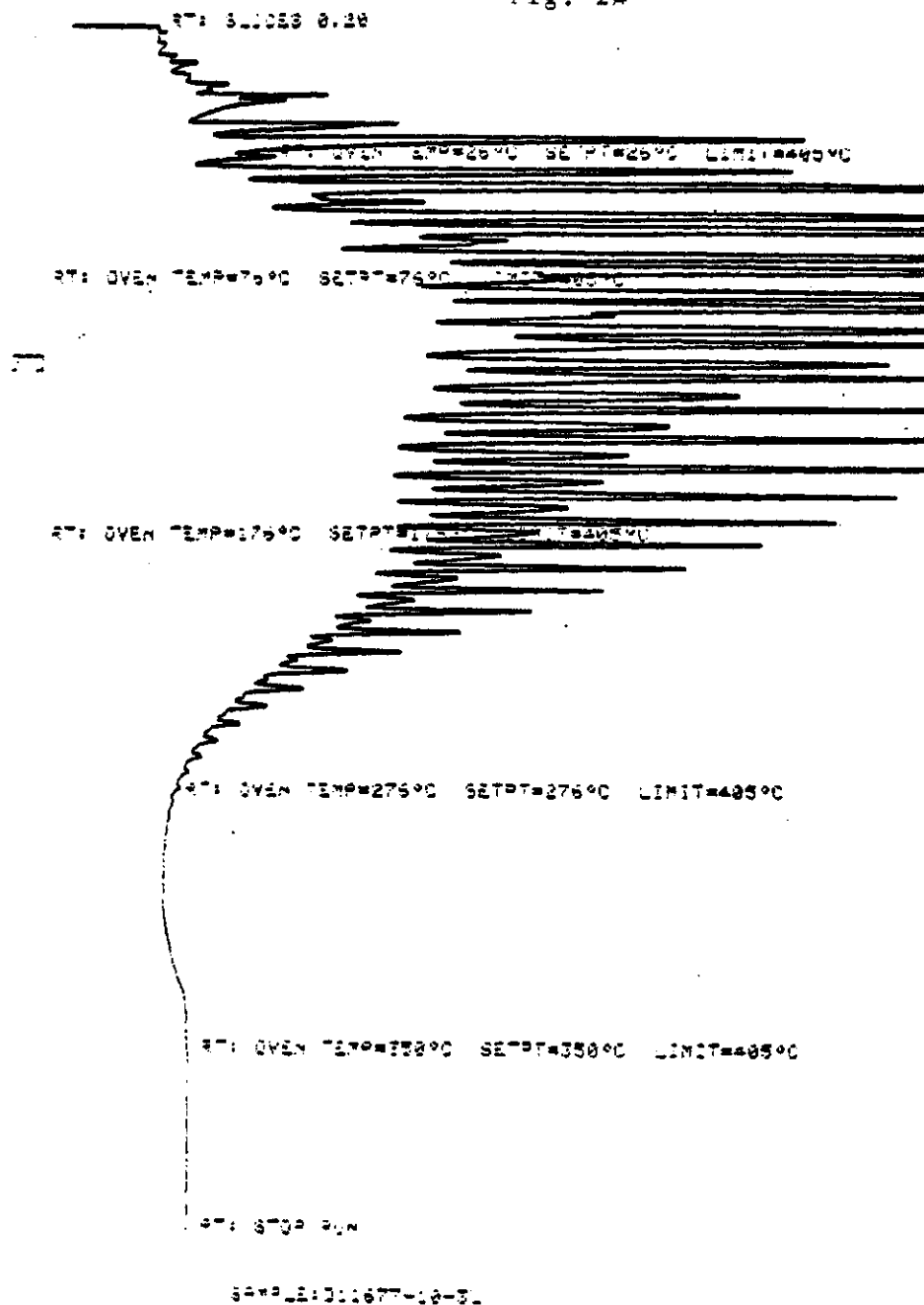


Fig. 25

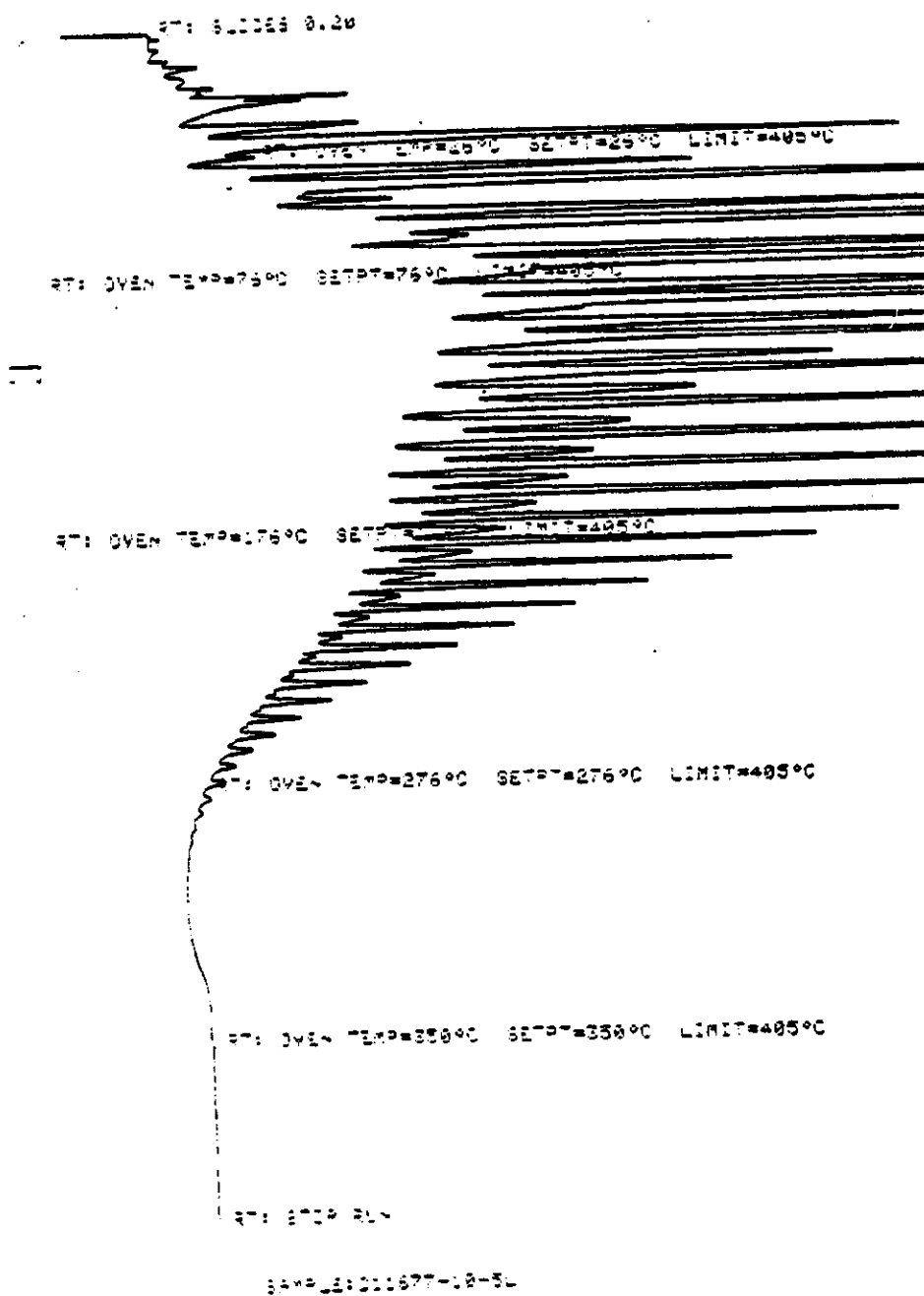


Fig. 26

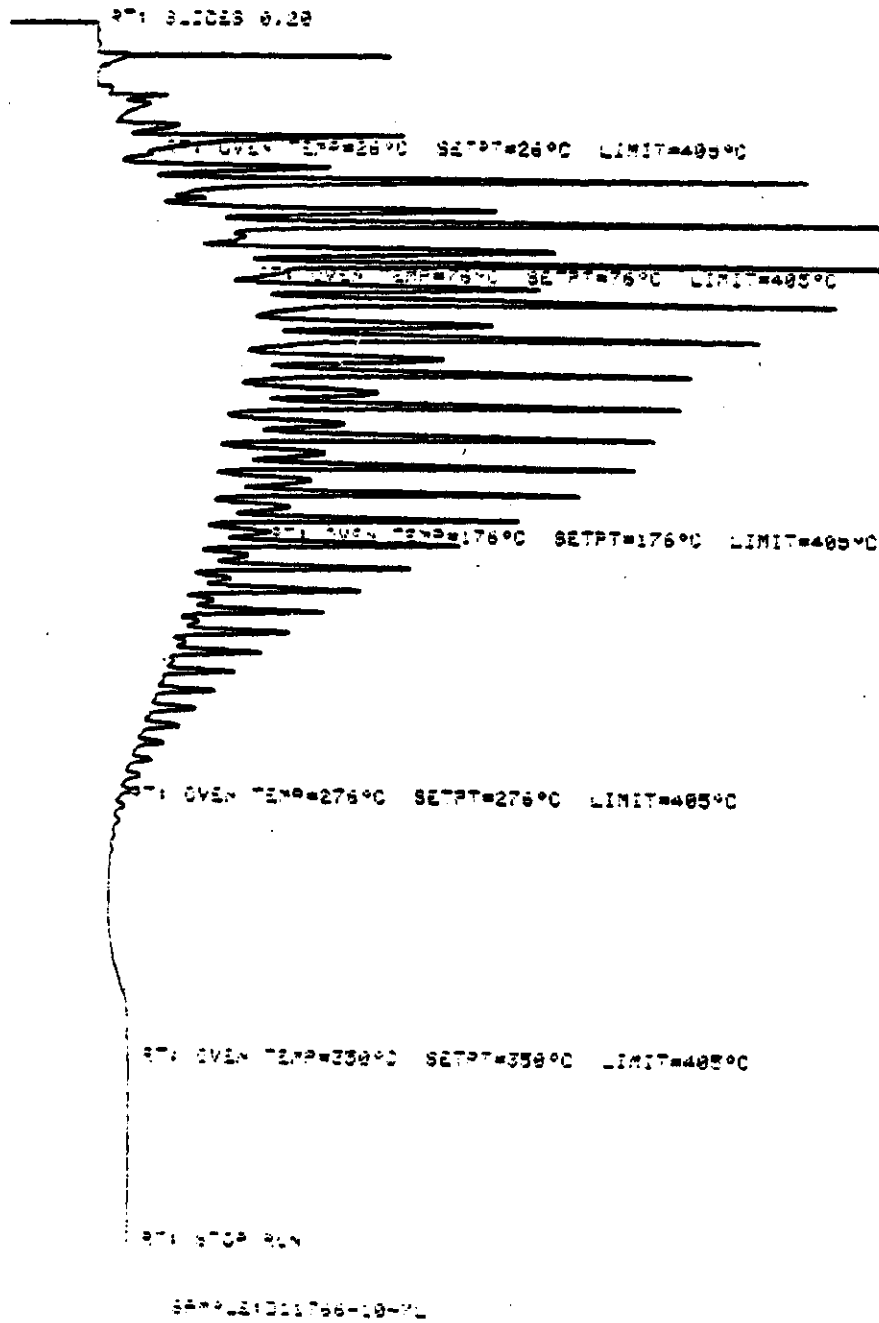


Fig. 27

OVEN TEMP NOT READY

RT: 0.1015 0.20

RT: OVEN TEMP=25°C SETPT=25°C LIMIT=405°C

RT: OVEN TEMP=75°C SETPT=75°C LIMIT=405°C

RT: OVEN TEMP=175°C SETPT=175°C LIM

RT: OVEN TEMP=275°C SETPT=275°C LIMIT=405°C

RT: OVEN TEMP=350°C SETPT=350°C LIMIT=405°C

RT: STOP RUN

SAMPLE: J11577-10-01

Fig. 29

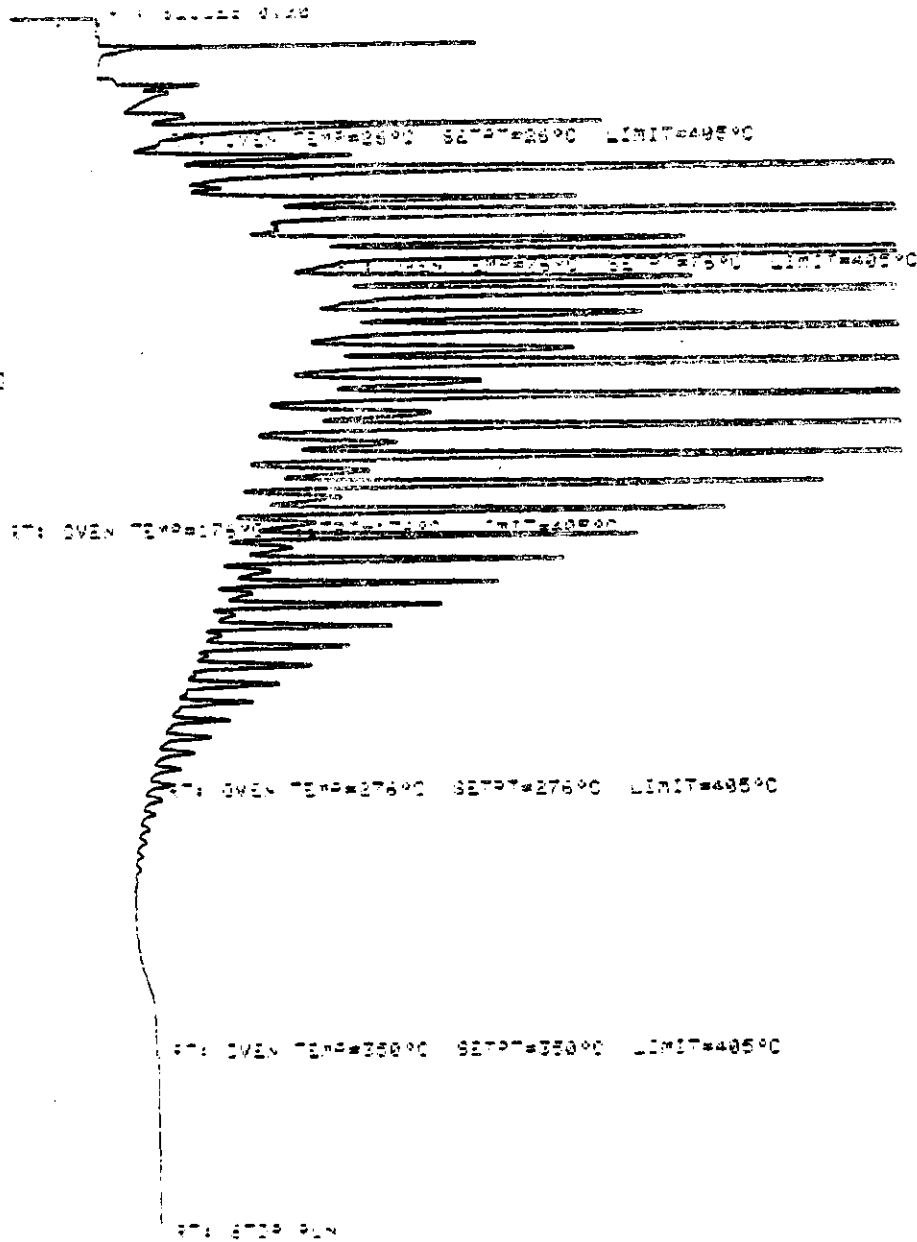


Fig. 30

1-225 2.25

007-22890

REF: 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1

100-443887-100

0452 27600 27600 27600

$\Delta T = 0.78^\circ\text{C}$ $\Delta T = 0.69^\circ\text{C}$ $\Delta T = 0.49^\circ\text{C}$

44 173 9.4

— 200 —

Fig. 31

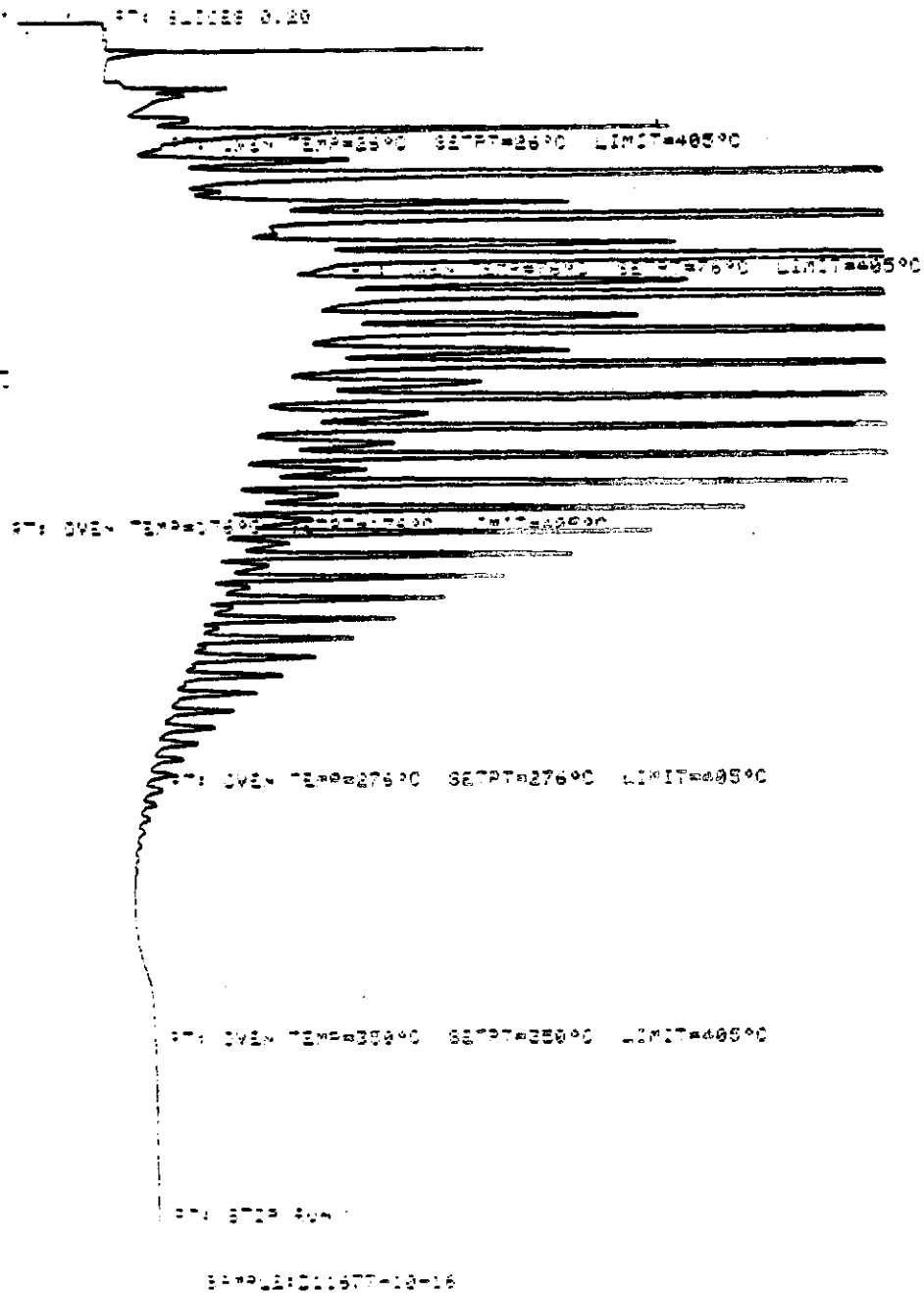


Fig. 32

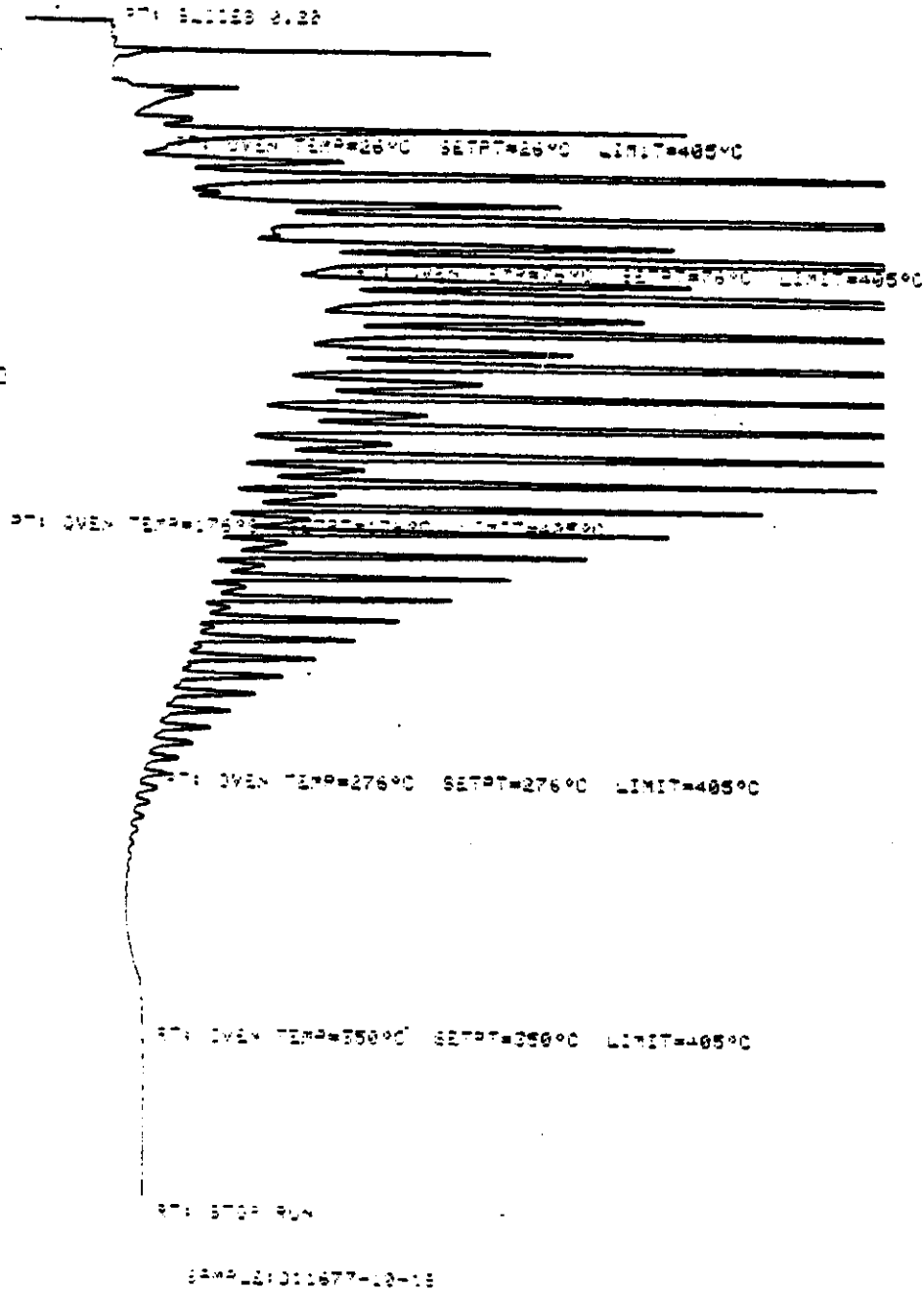


TABLE 1 RESULT OF SYNGAS OPERATION

RUN NO.	11677-10				
CATALYST	CO/TH+UCC-101 #11684-46C 250 CC 120.3 GM (141.1 AFTER RUN)				
FEED	H2:CO:ARGON OF 49:50: 0 @ 1260 CC/MN OR 302 GHSV				
	11677-10-03	677-10-04	677-10-05	677-10-07	677-10-08
	=====	=====	=====	=====	=====
FEED H2:CO:AR	49:50: 0	49:50: 0	49:50: 0	49:50: 0	49:50: 0
HRS ON STREAM	43.5	51.0	68.5	92.0	100.0
PRESSURE, PSIG	305	305	309	307	306
TEMP. C	266	266	266	266	266
FEED CC/MIN	1260	1260	1260	1260	1260
HOURS FEEDING	24.00	7.50	25.00	23.75	8.00
EFFLNT GAS LITER	873.70	271.55	923.97	894.43	303.61
GM AQUEOUS LAYER	217.83	67.62	225.41	210.80	69.05
GM OIL	76.43	26.03	86.76	82.99	27.56
MATERIAL BALANCE					
GM ATOM CARBON %	95.80	96.16	96.33	96.76	95.83
GM ATOM HYDROGEN %	97.27	98.43	98.04	98.85	98.10
GM ATOM OXYGEN %	98.65	97.64	98.96	98.82	97.83
RATIO CHX/(H2O+CO2)	0.9200	0.9580	0.9255	0.9407	0.9407
RATIO X IN CHX	2.3063	2.2962	2.3133	2.3145	2.3278
USAGE H2/CO PRODT	1.9731	1.9791	1.9874	2.0029	2.0090
RATIO CO2/(H2O+CO2)	0.0561	0.0545	0.0526	0.0483	0.0483
K SHIFT IN EFFLNT	0.02	0.02	0.02	0.02	0.02
CONVERSION					
ON CO %	36.36	37.26	35.90	35.48	34.91
ON H2 %	75.94	75.94	75.14	73.99	72.87
ON CO+H2 %	55.98	56.52	55.38	54.63	53.81
PRDT SELECTIVITY, WT %					
CH4	13.63	13.20	13.98	14.16	14.81
C2 HC'S	1.98	1.86	2.05	1.96	2.06
C3H8	2.21	2.13	2.28	2.31	2.33
C3H6=	2.32	2.12	2.29	2.26	2.34
C4H10	2.13	2.05	2.15	2.10	2.14
C4H8=	4.02	3.83	4.10	3.95	4.10
C5H12	2.41	2.27	2.37	2.25	2.36
C5H10=	4.48	4.29	4.58	4.51	4.37
C6H14	3.17	3.05	2.88	2.59	2.62
C6H12= & CYCLO'S	3.58	3.61	3.79	3.68	3.79
C7+ IN GAS	17.24	16.36	12.73	13.03	11.38
LIQ HC'S	42.82	45.21	46.79	47.20	47.71
TOTAL	100.00	100.00	100.00	100.00	100.00

SUB-GROUPING					
C1 -C4	26.30	25.20	26.85	26.74	27.77
C5 -420 F	50.15	49.78	47.26	46.24	38.44
420-700 F	19.84	20.24	20.95	21.44	29.02
700-END PT	3.71	4.77	4.94	5.58	4.77
C5+-END PT	73.70	74.80	73.15	73.26	72.23
ISO/NORMAL MOLE RATIO					
C4	0.2623	0.2607	0.2283	0.2024	0.1878
C5	0.3910	0.3640	0.2956	0.2690	0.2429
C6	0.8255	0.7979	0.6224	0.4523	0.4608
C4=	0.0680	0.0683	0.0713	0.0722	0.0743
PARAFFIN/OLEFIN RATIO					
C3	0.9080	0.9575	0.9465	0.9753	0.9518
C4	0.5125	0.5164	0.5062	0.5134	0.5023
C5	0.5226	0.5143	0.5031	0.4854	0.5250
SCHULZ-FLORY DISTRBTN					
ALPHA	0.8156		0.8270	0.8340	
CH4 FACTOR	4.0099		4.6694	5.1394	
LIQ HC COLLECTION					
PHYS. APPEARANCE		CLDY YLW		CLDY GRN	CLDY GRN
DENSITY		0.760		0.735	0.764
N, REFRACTIVE INDEX		1.4306		1.4309	1.4300
SIMULT'D DISTILATN					
10 WT % @ DEG F	271		269	282	
16	303		303	306	
50	446		449	455	
84	642		652	663	
90	688		705	719	
RANGE(16-84 %)	339		349	357	
WT % @ 420 F	45.00	44.67	44.67	42.75	29.17
WT % @ 700 F	91.33	89.44	89.44	88.17	90.00

TABLE 2

RESULT OF SYNGAS OPERATION

RUN NO. 11677-10

CATALYST CO/TH+UCC-101 #11684-46C 250 CC 120.3 GM (141.1 AFTER RUN)

FEED H₂:CO:ARGON OF 49:50: 0 @ 1260 CC/MN OR 302 GHSV

	11677-10-09	677-10-10	677-10-11	677-10-12	677-10-13
	=====	=====	=====	=====	=====
FEED H ₂ :CO:AR	49:50: 0	49:50: 0	49:50: 0	49:50: 0	49:50: 0
HRS ON STREAM	115.8	121.8	144.8	165.5	170.8
PRESSURE, PSIG	306	305	306	305	303
TEMP. C.	266	266	266	265	265
FEED CC/MIN	1260	1260	1260	1260	1260
HOURS FEEDING	23.75	6.00	28.00	20.75	5.25
EFFLNT GAS LITER	909.15	231.15	1108.90	847.95	214.60
GM AQUEOUS LAYER	204.99	51.99	242.64	171.37	44.00
GM OIL	81.83	20.40	95.19	67.20	16.91
MATERIAL BALANCE					
GM ATOM CARBON %	96.64	96.36	99.11	99.72	99.86
GM ATOM HYDROGEN %	98.97	99.25	101.18	101.14	101.64
GM ATOM OXYGEN %	98.19	98.48	100.31	100.04	100.46
RATIO CHX/(H ₂ O+CO ₂)	0.9541	0.9377	0.9647	0.9904	0.9818
RATIO X IN CHX	2.3311	2.3406	2.3449	2.3453	2.3407
USAGE H ₂ /CO PRODT	2.0168	2.0165	2.0242	2.0339	2.0357
RATIO CO ₂ /(H ₂ O+CO ₂)	0.0469	0.0476	0.0471	0.0453	0.0434
K SHIFT IN EFFLNT	0.02	0.02	0.02	0.02	0.02
CONVERSION					
ON CO %	35.00	34.73	34.71	33.75	33.77
ON H ₂ %	72.81	72.42	72.30	70.22	70.34
ON CO+H ₂ %	53.83	53.55	53.40	51.82	51.92
PRODT SELECTIVITY, WT %					
CH ₄	14.85	15.37	15.50	15.44	15.27
C ₂ HC'S	2.07	2.16	2.18	2.36	2.19
C ₃ H ₈	2.54	2.51	2.63	2.65	2.63
C ₃ H ₆ =	2.40	2.36	2.41	2.48	2.38
C ₄ H ₁₀	2.22	2.20	2.27	2.26	2.21
C ₄ H ₈ =	4.22	4.09	4.18	4.26	4.17
C ₅ H ₁₂	2.36	2.36	2.46	2.43	2.39
C ₅ H ₁₀ =	4.63	4.58	3.98	4.18	4.79
C ₆ H ₁₄	2.70	2.60	2.69	2.89	2.87
C ₆ H ₁₂ = & CYCLO'S	3.64	3.63	3.78	3.91	3.92
C ₇ + IN GAS	11.29	11.11	12.31	12.85	13.24
LIQ HC'S	47.09	47.01	45.63	44.29	43.93
TOTAL	100.00	100.00	100.00	100.00	100.00

SUB-GROUPING					
C1 -C4	28.30	28.70	29.16	29.45	28.86
C5 -420 F	38.35	45.16	45.47	46.63	47.85
420-700 F	28.64	20.87	20.26	19.18	18.51
700-END PT	4.71	5.27	5.11	4.73	4.77
C5+-END PT	71.70	71.30	70.84	70.55	71.14
ISO/NORMAL MOLE RATIO					
C4	0.1668	0.1718	0.1610	0.1314	0.1350
C5	0.2197	0.2190	0.1950	0.1689	0.1809
C6	0.4614	0.4141	0.3838	0.3802	0.3438
C4=	0.0739	0.1034	0.0726	0.0697	0.0712
PARAFFIN/OLEFIN RATIO					
C3	1.0071	1.0153	1.0441	1.0226	1.0549
C4	0.5073	0.5197	0.5241	0.5118	0.5126
C5	0.4945	0.5013	0.6002	0.5638	0.4856
SCHULZ-FLORY DISTRBTN					
ALPHA (EXP(SLOPE))	0.8278		0.8318	0.8269	
RATIO CH4/(1-A)**2	5.0061		5.4804	5.1525	
LIQ HC COLLECTION					
PHYS. APPEARANCE	CLDY/SLD		CLDY/SLD	CLDY/SLD	
DENSITY	0.740		.751 .760	0.761	
N, REFRACTIVE INDEX	1.4298		1.4296	1.4291	
SIMULT'D DISTILATN					
10 WT % @ DEG F	303		282	283	
16	344		306	303	
50	525		449	443	
84	662		653	649	
90	700		714	709	
RANGE(16-84 %)	318		347	346	
WT % @ 420 F	29.17	44.40	44.40	46.00	47.00
WT % @ 700 F	90.00	88.80	88.80	89.31	89.13

TABLE 3

RESULT OF SYNGAS OPERATION

RUN NO. 11677-10
 CATALYST CO/TH+UCC-101 #11684-46C 250 CC 120.3 GM (141.1 AFTER RUN)
 FEED H2:CO:ARGON OF 49:50: 0 @ 1260 CC/MN OR 302 GHSV

	11677-10-14	677-10-15	677-10-16	677-10-18
	=====	=====	=====	=====
FEED H2:CO:AR	49:50: 0	49:50: 0	49:50: 0	49:50: 0
HRS ON STREAM	189.8	195.3	213.8	237.3
PRESSURE, PSIG	303	306	303	303
TEMP. C	265	265	265	266
FEED CC/MIN	1260	1260	1260	1260
HOURS FEEDING	23.75	5.50	24.00	24.50
EFFLNT GAS LITER	994.40	234.65	990.80	1024.00
GM AQUEOUS LAYER	199.04	45.21	197.29	200.01
GM OIL	76.50	17.16	74.90	74.87
MATERIAL BALANCE				
GM ATOM CARBON %	102.46	102.84	99.04	98.76
GM ATOM HYDROGEN %	103.71	103.00	101.77	101.94
GM ATOM OXYGEN %	102.09	102.95	99.65	99.82
RATIO CHX/(H2O+CO2)	1.0111	0.9967	0.9811	0.9671
RATIO X IN CHX	2.3467	2.3644	2.3610	2.3681
USAGE H2/CO PRODT	2.0380	2.0381	2.0492	2.0536
RATIO CO2/(H2O+CO2)	0.0451	0.0472	0.0421	0.0410
K SHIFT IN EFFLNT	0.02	0.02	0.02	0.02
CONVERSION				
ON CO %	34.02	33.01	33.34	32.72
ON H2 %	70.35	69.48	69.29	68.32
ON CO+H2 %	52.00	50.97	51.27	50.52
PRDT SELECTIVITY, WT %				
CH4	15.37	16.37	16.18	16.47
C2 HC'S	2.26	2.29	2.49	2.48
C3H8	2.85	2.82	2.77	2.82
C3H6=	2.83	2.50	2.47	2.39
C4H10	2.51	2.34	2.25	2.30
C4H8=	4.42	4.28	4.03	4.08
C5H12	2.51	2.48	2.46	2.52
C5H10=	4.56	4.82	4.56	4.44
C6H14	2.78	2.89	2.80	2.77
C6H12= & CYCLO'S	3.77	4.09	3.91	4.01
C7+ IN GAS	13.65	12.81	12.74	12.41
LIQ HC'S	42.49	42.31	43.34	43.32
TOTAL	100.00	100.00	100.00	100.00

SUB-GROUPING				
C1 -C4	30.24	30.60	30.19	30.53
C5 -420 F	47.23	46.79	46.66	46.36
420-700 F	17.90	18.09	18.52	18.47
700-END PT	4.62	4.52	4.63	4.63
C5+-END PT	69.76	69.40	69.81	69.47
ISO/NORMAL MOLE RATIO				
C4	0.1609	0.1256	0.1190	0.1051
C5	0.1910	0.1629	0.1438	0.1390
C6	0.3312	0.3283	0.2998	0.2557
C4=	0.0759	0.0688	0.0680	0.0684
PARAFFIN/OLEFIN RATIO				
C3	0.9597	1.0780	1.0728	1.1245
C4	0.5482	0.5267	0.5403	0.5445
C5	0.5349	0.5007	0.5249	0.5507
SCHULZ-FLORY DISTRBTN				
ALPHA	0.8262		0.8260	0.8255
CH4 FACTOR	5.0912		5.3398	5.4106
LIQ HC COLLECTION				
PHYS. APPEARANCE	CLDY/SLD		CLDY/SLD	CLDY/SLD
DENSITY	0.751		0.759	0.760
N, REFRACTIVE INDEX	1.4291		1.4285	1.4282
SIMULT'D DISTILATN				
10 WT % @ DEG F	282		278	280
16	304		302	303
50	437		440	439
84	650		648	648
90	713		709	709
RANGE(16-84 %)	346		346	345
WT % @ 420 F	47.00	46.57	46.57	46.67
WT % @ 700 F	89.13	89.31	89.31	89.31

TABLE 4 RESULT OF SYNGAS OPERATION

RUN NO. 10112-15
 CATALYST CO/TH +UCC-101, #10252-46C 80 CC 37.2GM (52.1 AFTER RUN +15 G)
 FEED H₂:CO:ARGON OF 50:50: 0 @ 400 CC/MN OR 300 GHSV

RUN & SAMPLE NO.	10112-15-01	112-15-02	112-15-03	112-15-04	112-15-05
FEED H ₂ :CO:AR	50:50: 0	50:50: 0	50:50: 0	50:50: 0	50:50: 0
HRS ON STREAM	19.5	27.0	115.5	122.5	139.5
PRESSURE, PSIG	302	299	303	302	302
TEMP. C	272	271	269	269	269
FEED CC/MIN	400	400	400	400	400
HOURS FEEDING	19.50	7.50	88.50	7.00	24.00
EFFLNT GAS LITER	156.55	61.50	1049.40	91.50	324.55
GM AQUEOUS LAYER	47.27	18.12	208.20	14.74	50.54
GM OIL	24.32	9.60	96.37	6.24	21.39
MATERIAL BALANCE					
GM ATOM CARBON %	85.88	86.83	95.01	99.73	99.31
GM ATOM HYDROGEN %	79.97	80.49	98.12	98.28	99.38
GM ATOM OXYGEN %	94.42	94.44	95.50	99.88	99.73
RATIO CH ₄ /(H ₂ O+CO ₂)	0.8123	0.8293	0.9862	0.9955	0.9870
RATIO X IN CH ₄	2.3242	2.3375	2.4283	2.5101	2.5037
USAGE H ₂ /CO PRDCT	1.2272	1.2590	1.6739	1.6228	1.6902
RATIO CO ₂ /(H ₂ O+CO ₂)	0.3735	0.3620	0.2001	0.2403	0.2068
K SHIFT IN EFFLNT	0.16	0.15	0.13	0.17	0.14
CONVERSION					
ON CO %	62.86	61.20	44.21	41.99	39.12
ON H ₂ %	89.40	89.06	72.07	69.26	66.43
ON CO+H ₂ %	75.66	74.61	58.36	55.53	52.78
PRDCT SELECTIVITY, WT %					
CH ₄	14.67	15.46	19.66	23.52	23.12
C ₂ HC'S	2.23	2.29	2.82	3.07	3.09
C ₃ H ₈	2.12	2.11	2.90	3.27	3.29
C ₃ H ₆ =	2.93	2.82	1.96	2.23	2.63
C ₄ H ₁₀	1.80	1.74	2.18	2.64	2.72
C ₄ H ₈ =	4.14	4.08	3.00	3.44	3.73
C ₅ H ₁₂	2.18	2.06	2.27	2.72	2.71
C ₅ H ₁₀ =	4.24	4.17	3.09	3.62	3.78
C ₆ H ₁₄	2.98	2.63	2.55	2.88	2.80
C ₆ H ₁₂ = & CYCLO'S	2.37	2.30	1.77	2.02	1.56
C ₇ + IN GAS	12.74	11.58	14.13	13.78	11.90
LIQ HC'S	47.58	48.77	43.68	36.81	38.66
TOTAL	100.00	100.00	100.00	100.00	100.00

SUB-GROUPING					
C1 -C4	27.90	28.49	32.52	38.17	38.59
C5 -420 F	50.41	43.30	42.22	40.22	38.71
420-700 F	19.19	22.72	20.35	15.94	16.74
700-END PT	2.51	5.49	4.91	5.67	5.95
C5+-END PT	72.10	71.51	67.48	61.83	61.41
ISO/NORMAL MOLE RATIO					
C4	0.2857	0.2632	0.1226	0.1367	0.1778
C5	0.5572	0.4990	0.2546	0.2493	0.2698
C6	0.9660	0.8647	0.4117	0.4098	0.4181
C4=	0.0000	0.0000	0.0000	0.0000	0.0000
PARAFFIN/OLEFIN RATIO					
C3	0.6912	0.7154	1.4156	1.3971	1.1943
C4	0.4206	0.4117	0.7010	0.7401	0.7044
C5	0.5004	0.4803	0.7141	0.7302	0.6954
LIQ HC COLLECTION					
PHYS. APPEARANCE	GR YL OIL		GR OIL WAX		GR YL OIL
DENSITY	0.741		0.765		0.769
N, REFRACTIVE INDEX	1.4266		1.4309		1.4310
SIMULT'D DISTILATN					
10 WT % @ DEG F	257		292		292
16	286		318		320
50	406		457		465
84	578		662		694
90	635		712		755
RANGE(16-84 %)	292		344		374
WT % @ 420 F	54.40	42.16	42.16	41.29	41.29
WT % @ 700 F	94.72	88.75	88.75	84.60	84.60