

SUB-GROUPING					
C1 -C4	28.74	30.76	30.80	30.58	30.74
C5 -420 F	52.28	48.46	48.63	48.26	48.36
420-700 F	17.11	18.21	18.02	18.26	18.03
700-END PT	1.87	2.57	2.54	2.90	2.87
C5+-END PT	71.26	69.24	69.20	69.42	69.26
ISO/NORMAL MOLE RATIO					
C4	0.1076	0.0946	0.1208	0.0877	0.0796
C5	0.0959	0.0925	0.0955	0.0874	0.0747
C6	0.2939	0.2288	0.2571	0.2259	0.2069
C4=	0.0737	0.0769	0.0892	0.0801	0.0796
PARAFFIN/OLEFIN RATIO					
C3	1.8217	1.8325	1.6005	1.7543	1.7784
C4	0.7067	0.7304	0.7480	0.7055	0.7379
C5	0.7769	0.7953	1.2135	0.7593	0.7884
SCHULZ-FLORY DISTRBTN					
ALPHA (EXP(SLOPE))			0.8063		0.8077
RATIO CH4/(1-A)**2			3.4298		3.6011
LIQ HC COLLECTION					
PHYS. APPEARANCE			CLDY		CLDY LT BL
DENSITY			0.723		0.751
N, REFRACTIVE INDEX			1.4244		1.4251
SIMULT'D DISTILATN					
10 WT % @ DEG F			257		258
16			287		293
50			414		421
84			603		615
90			654		670
RANGE(16-84 %)			316		322
WT % @ 420 F	55.00	51.50	51.50	49.50	49.50
WT % @ 700 F	95.56	94.00	94.00	93.07	93.07

TABLE 30

RESULT OF SYNGAS OPERATION

RUN NO. 11677-11

CATALYST CO/TH/X4+UCC-103+UCC-101 #11684-57 250 CC 111.4 GM

FEED H2:CO:ARGON OF 49:50: 0 @ 630 CC/MN OR 151 GHSV

	11677-11-12	677-11-13	677-11-14	677-11-15	677-11-16
	=====	=====	=====	=====	=====
FEED H2:CO:AR	49:50: 0	49:50: 0	49:50: 0	49:50: 0	49:50: 0
HRS ON STREAM	146.5	163.5	169.0	189.5	195.5
PRESSURE, PSIG	296	296	296	295	300
TEMP. C	260	261	260	261	261
FEED CC/MIN	630	630	630	630	630
HOURS FEEDING	7.00	24.00	5.75	26.00	5.00
EFFLNT GAS LITER	135.95	474.00	113.55	523.65	86.90
GM AQUEOUS LAYER	32.53	111.53	25.82	116.74	22.09
GM OIL	10.91	37.42	8.64	39.08	7.20
MATERIAL BALANCE					
GM ATOM CARBON %	95.66	98.25	99.93	100.00	86.66
GM ATOM HYDROGEN %	103.38	104.72	106.08	103.80	95.15
GM ATOM OXYGEN %	101.35	103.16	101.59	104.08	92.89
RATIO CHX/(H2O+CO2)	0.8489	0.8707	0.9553	0.8902	0.8256
RATIO X IN CHX	2.3369	2.3458	2.3313	2.3588	2.3486
USAGE H2/CO PRODT	1.8969	1.8827	1.8815	1.8721	1.8924
RATIO CO2/(H2O+CO2)	0.0823	0.0903	0.0951	0.0977	0.0837
K SHIFT IN EFFLNT	0.04	0.05	0.05	0.05	0.04
CONVERSION					
ON CO %	36.67	37.20	38.91	36.72	37.51
ON H2 %	71.84	72.41	72.73	72.17	73.16
ON CO+H2 %	54.66	55.09	56.06	54.49	55.88
PRDT SELECTIVITY, WT %					
CH4	13.21	13.70	12.53	14.12	14.06
C2 HC'S	2.91	3.09	2.86	3.04	2.94
C3H8	4.28	4.22	4.74	4.52	4.16
C3H6=	2.45	2.01	2.55	2.08	1.93
C4H10	3.66	3.40	4.00	3.64	3.35
C4H8=	4.56	4.26	4.83	4.28	4.12
C5H12	3.65	3.61	4.01	3.82	3.00
C5H10=	4.28	4.17	4.45	4.37	4.15
C6H14	3.57	3.83	3.94	3.92	3.81
C6H12= & CYCLO'S	3.54	3.53	3.79	3.53	3.49
C7+ IN GAS	10.93	12.73	14.86	12.73	12.02
LIQ HC'S	42.95	41.45	37.45	39.96	42.96
TOTAL	100.00	100.00	100.00	100.00	100.00

SUB-GROUPING					
C1 -C4	31.07	30.68	31.50	31.67	30.58
C5 -420 F	46.60	47.77	49.39	47.95	50.74
420-700 F	18.03	18.36	16.16	17.24	15.73
700-END PT	3.30	3.19	2.94	3.14	2.95
C5+-END PT	68.93	68.52	68.50	68.33	69.42
ISO/NORMAL MOLE RATIO					
C4	0.1049	0.0713	0.1029	0.0738	0.0753
C5	0.0869	0.0701	0.0822	0.0680	0.0872
C6	0.2292	0.2112	0.2118	0.1957	0.2307
C4=	0.0907	0.0810	0.0925	0.0806	0.0809
PARAFFIN/OLEFIN RATIO					
C3	1.6679	2.0071	1.7758	2.0699	2.0553
C4	0.7752	0.7692	0.8008	0.8222	0.7852
C5	0.8302	0.8411	0.8763	0.8507	0.7010
SCHULZ-FLORY DISTRBTN					
ALPHA (EXP(SLOPE))		0.8118		0.8099	
RATIO CH4/(1-A)**2		3.8681		3.9069	
LIQ HC COLLECTION					
PHYS. APPEARANCE		CLR LT BL		LT BL	
DENSITY		0.745		0.757	
N, REFRACTIVE INDEX		1.4251		1.4251	
SIMULT'D DISTILATN					
10 WT % @ DEG F		260		261	
16		299		295	
50		423		421	
84		624		623	
90		675		676	
RANGE(16-84 %)		325		328	
WT % @ 420 F	48.00	48.00	49.00	49.00	56.50
WT % @ 700 F	92.31	92.31	92.15	92.15	93.13

TABLE 31

RESULT OF SYNGAS OPERATION

RUN NO. 11677-11
 CATALYST CO/TH/X4+UCC-103+UCC-101 #11684-57 250 CC 111.4 GM
 FEED H2:CO:ARGON OF 49:50: 0 @ 630 CC/MN OR 151 GHSV

	11677-11-17	677-11-18	677-11-19	677-11-21
	=====	=====	=====	=====
FEED H2:CO:AR	49:50: 0	49:50: 0	49:50: 0	49:50: 0
HRS ON STREAM	212.5	219.5	236.5	261.5
PRESSURE, PSIG	297	293	300	298
TEMP. C	260	260	261	261
FEED CC/MIN	630	630	630	630
HOURS FEEDING	22.00	7.00	24.00	25.00
EFFLNT GAS LITER	430.85	134.10	469.95	497.10
GM AQUEOUS LAYER	97.20	31.56	108.20	113.02
GM OIL	31.69	9.89	33.91	36.31
MATERIAL BALANCE				
GM ATOM CARBON %	96.43	96.06	97.17	98.09
GM ATOM HYDROGEN %	100.43	103.54	101.81	103.02
GM ATOM OXYGEN %	101.52	99.19	101.95	102.79
RATIO CHX/(H2O+CO2)	0.8602	0.9147	0.8705	0.8730
RATIO X IN CHX	2.3575	2.3418	2.3487	2.3609
USAGE H2/CO PRODT	1.8735	1.9003	1.8870	1.8941
RATIO CO2/(H2O+CO2)	0.0945	0.0868	0.0892	0.0887
K SHIFT IN EFFLNT	0.05	0.04	0.04	0.04
CONVERSION				
ON CO %	36.05	38.32	36.44	36.28
ON H2 %	71.86	72.73	72.34	72.02
ON CO+H2 %	54.03	55.90	54.52	54.31
PROT SELECTIVITY, WT %				
CH4	14.47	13.44	13.31	14.24
C2 HC'S	3.09	2.87	3.04	3.08
C3H8	4.07	4.44	4.95	4.56
C3H6=	1.84	2.23	2.45	2.24
C4H10	3.24	3.51	3.85	3.68
C4H8=	3.95	4.32	4.94	4.45
C5H12	3.09	3.70	4.07	3.82
C5H10=	3.82	4.31	4.80	4.25
C6H14	3.85	3.82	4.06	3.80
C6H12= & CYCLO'S	3.59	3.29	3.49	2.94
C7+ IN GAS	14.55	17.06	12.32	13.40
LIQ HC'S	40.45	37.00	38.72	39.54
TOTAL	100.00	100.00	100.00	100.00

SUB-GROUPING				
C1 -C4	30.65	30.81	32.55	32.26
C5 -420 F	51.75	50.31	47.71	47.38
420-700 F	14.82	16.12	16.86	16.60
700-END PT	2.78	2.76	2.88	3.76
C5+-END PT	69.35	69.19	67.45	67.74
ISO/NORMAL MOLE RATIO				
C4	0.0712	0.0731	0.0750	0.0707
C5	0.0801	0.1167	0.1211	0.1213
C6	0.1691	0.1762	0.1758	0.1637
C4=	0.0830	0.0808	0.0807	0.0813
PARAFFIN/OLEFIN RATIO				
C3	2.1129	1.9022	1.9268	1.9471
C4	0.7919	0.7828	0.7538	0.7989
C5	0.7859	0.8340	0.8239	0.8754
SCHULZ-FLORY DISTRBTN				
ALPHA (EXP(SLOPE))	0.8029		0.8058	0.8147
RATIO CH4/(1-A)**2	3.7229		3.5306	4.1456
LIQ HC COLLECTION				
PHYS. APPEARANCE	OIL/SLD		BLUE	OIL/SLD
DENSITY	0.756		0.748	0.741
N, REFRACTIVE INDEX	1.4254		1.4248	1.4250
SIMULT'D DISTILATN				
10 WT % @ DEG F	263		259	257
16	283		297	299
50	394		421	425
84	601		619	639
90	660		673	695
RANGE(16-84 %)	318		322	340
WT % @ 420 F	56.50	49.00	49.00	48.50
WT % @ 700 F	93.13	92.55	92.55	90.50

TABLE 32

RESULT OF SYNGAS OPERATION

RUN NO. 11677-11
 CATALYST CO/TH/X4+UCC-103+UCC-101 #11684-57 250 CC 111.4 GM
 FEED H2:CO:ARGON OF 49:50: 0 @ 630 CC/MN OR 151 GHSV

11677-11-22 677-11-23

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FEED H2:CO:AR	49:50: 0	49:50: 0
HRS ON STREAM	267.5	284.5
PRESSURE, PSIG	294	295
TEMP. C	261	261
FEED CC/MIN	630	630
HOURS FEEDING	6.00	23.00
EFFLNT GAS LITER	111.85	451.30
GM AQUEOUS LAYER	25.93	99.39
GM OIL	8.59	32.93
MATERIAL BALANCE		
GM ATOM CARBON %	95.49	97.84
GM ATOM HYDROGEN %	100.59	103.23
GM ATOM OXYGEN %	96.87	99.62
RATIO CHX/(H2O+CO2)	0.9611	0.9500
RATIO X IN CHX	2.3200	2.3492
USAGE H2/CO PRODT	1.8964	1.8985
RATIO CO2/(H2O+CO2)	0.0882	0.0914
K SHIFT IN EFFLNT	0.04	0.05
CONVERSION		
ON CO %	38.81	37.84
ON H2 %	73.47	71.98
ON CO+H2 %	56.31	55.09
PRDT SELECTIVITY, WT %		
CH4	12.11	13.50
C2 HC'S	2.77	2.86
C3H8	4.61	4.71
C3H6=	2.24	2.23
C4H10	3.64	3.76
C4H8=	4.53	4.52
C5H12	3.84	3.98
C5H10=	4.72	4.50
C6H14	4.19	4.17
C6H12= & CYCLO'S	3.57	3.31
C7+ IN GAS	16.59	15.14
LIQ HC'S	37.20	37.31
TOTAL	100.00	100.00

SUB-GROUPING		
C1 -C4	29.89	31.59
C5 -420 F	51.33	49.56
420-700 F	16.06	16.11
700-END PT	2.73	2.74
C5+-END PT	70.11	68.41
ISO/NORMAL MOLE RATIO		
C4	0.0709	0.0689
C5	0.1142	0.1115
C6	0.1648	0.1688
C4=	0.0835	0.0814
PARAFFIN/OLEFIN RATIO		
C3	1.9637	2.0155
C4	0.7759	0.8041
C5	0.7925	0.8598
SCHULZ-FLORY DISTRBTN		
ALPHA (EXP(SLOPE))		0.8041
RATIO CH4/(1-A)**2		3.5196
LIQ HC COLLECTION		
PHYS. APPEARANCE		BLUE
DENSITY		0.753
N, REFRACTIVE INDEX		1.4241
SIMULT'D DISTILATN		
10 WT % @ DEG F		258
16		295
50		421
84		614
90		672
RANGE(16-84 %)		
		319
WT % @ 420 F	49.50	49.50
WT % @ 700 F	92.67	92.67

TABLE 33 RESULT OF SYNGAS OPERATION

RUN NO. 10225-08
 CATALYST CO/TH/X4+UCC-101 #10252-48C 80 CC 35.8 GM (40.6 AFTER RUN +4.8G)
 FEED H2:CO:ARGON OF 50:50: 0 @ 400 CC/MN OR 300 GHSV

RUN & SAMPLE NO.	10225-08-01	225-08-02	225-08-03	225-08-04	225-08-05
FEED H2:CO:AR	50:50: 0	50:50: 0	50:50: 0	50:50: 0	50:50: 0
HRS ON STREAM	17.0	24.0	42.5	48.0	66.5
PRESSURE, PSIG	299	301	304	303	305
TEMP. C	270	270	270	270	270
FEED CC/MIN	400	400	400	400	400
HOURS FEEDING	17.00	7.00	25.50	5.50	24.00
EFFLNT GAS LITER	149.15	67.50	254.92	57.93	255.03
GM AQUEOUS LAYER	40.72	18.20	66.30	14.38	62.74
GM OIL	23.54	8.55	31.15	5.95	25.95
MATERIAL BALANCE					
GM ATOM CARBON %	88.40	92.22	93.38	94.53	94.76
GM ATOM HYDROGEN %	95.03	99.12	100.49	101.36	101.85
GM ATOM OXYGEN %	90.30	96.94	95.94	98.54	97.44
RATIO CHX/(H2O+CO2)	0.9576	0.8996	0.9427	0.9105	0.9384
RATIO X IN CHX	2.3387	2.3622	2.3601	2.3854	2.3837
USAGE H2/CO PRODT	1.3004	1.3261	1.4072	1.4092	1.4609
RATIO CO2/(H2O+CO2)	0.3682	0.3452	0.3097	0.3071	0.2855
K SHIFT IN EFFLNT	0.33	0.29	0.24	0.24	0.21
CONVERSION					
ON CO %	67.21	63.39	59.86	57.74	56.16
ON H2 %	82.61	81.37	80.07	78.66	78.25
ON CO+H2 %	75.19	72.71	70.34	68.57	67.60
PRDT SELECTIVITY, WT %					
CH4	14.00	15.13	15.36	16.44	16.53
C2 HC'S	2.89	3.21	3.20	3.41	3.37
C3H8	3.43	3.55	3.35	3.55	3.41
C3H6=	2.75	3.15	3.20	3.41	3.38
C4H10	2.70	2.73	2.49	2.63	2.47
C4H8=	4.30	4.77	4.66	5.05	4.82
C5H12	3.13	3.08	2.70	2.88	2.68
C5H10=	4.26	4.76	4.85	5.20	5.03
C6H14	3.69	3.59	3.06	3.22	3.02
C6H12= & CYCLO'S	0.28	0.35	2.56	2.77	2.75
C7+ IN GAS	13.10	15.00	13.71	14.20	15.29
LIQ HC'S	45.48	40.68	40.86	37.24	37.23
TOTAL	100.00	100.00	100.00	100.00	100.00

SUB-GROUPING					
C1 -C4	30.08	32.54	32.26	34.48	33.99
C5 -420 F	50.88	49.62	49.82	48.50	48.99
420-700 F	16.31	16.13	16.20	14.69	14.68
700-END FT	2.73	1.72	1.72	2.33	2.33
C5+-END FT	69.92	67.46	67.74	65.52	66.01
ISO/NORMAL MOLE RATIO					
C4	0.2051	0.1861	0.1585	0.1514	0.1381
C5	0.4293	0.3759	0.2930	0.2795	0.2473
C6	0.8211	0.6734	0.5049	0.4829	0.4246
C4=	0.0000	0.0000	0.0000	0.0000	0.0000
PARAFFIN/OLEFIN RATIO					
C3	1.1915	1.0750	0.9995	0.9944	0.9633
C4	0.6064	0.5527	0.5159	0.5020	0.4953
C5	0.7138	0.6296	0.5412	0.5391	0.5182
LIQ HC COLLECTION					
PHYS. APPEARANCE	CLR OIL	-	CLR OIL	-	CLR OIL
DENSITY	0.748		0.756		0.757
N, REFRACTIVE INDEX	1.4234		1.4255		1.4268
SIMULT'D DISTILLAIN					
10 WT % @ DEG F	246		261		262
16	267		289		293
50	394		403		408
84	579		573		599
90	643		629		654
RANGE(16-84 %)	312		284		306
WT % @ 420 F	58.14	56.14	56.14	54.29	54.29
WT % @ 700 F	94.00	95.78	95.78	93.73	93.73

TABLE 34

RESULT OF SYNGAS OPERATION

RUN NO. 10225-08
 CATALYST CO/TH/X4+UCC-101 #10252-48C 80 CC 35.8 GM (40.6 AFTER RUN +4.8G)
 FEED H₂:CO:ARGON OF 50:50: 0 @ 400 CC/MN OR 300 GHSV

RUN & SAMPLE NO.	10225-08-06	225-08-07	225-08.03	225-08-09	225-08-10
FEED H ₂ :CO:AR	50:50: 0	50:50: 0	50:50: 0	50:50: 0	50:50: 0
HRS ON STREAM	74.0	90.5	98.0	114.5	122.0
PRESSURE, PSIG	297	305	297	300	301
TEMP. C	269	270	270	270	270
FEED CC/MIN	400	400	400	400	400
HOURS FEEDING	7.50	24.00	7.50	24.00	7.50
EFFLNT GAS LITER	79.75	263.30	84.90	273.70	86.45
GM AQUEOUS LAYER	19.61	62.74	19.46	62.26	19.34
GM OIL	7.56	24.19	8.31	26.60	6.90
MATERIAL BALANCE					
GM ATOM CARBON %	93.21	94.65	98.13	98.43	96.41
GM ATOM HYDROGEN %	100.57	102.34	105.12	105.58	103.48
GM ATOM OXYGEN %	96.98	97.84	99.36	99.15	99.23
RATIO CH ₄ /(H ₂ O+CO ₂)	0.9125	0.9253	0.9711	0.9827	0.9324
RATIO X IN CH ₄	2.3949	2.4039	2.3948	2.3978	2.4215
USAGE H ₂ /CO PRDCT	1.4684	1.4913	1.5017	1.5236	1.5203
RATIO CO ₂ /(H ₂ O+CO ₂)	0.2790	0.2716	0.2729	0.2646	0.2619
K SHIFT IN EFFLNT	0.21	0.20	0.20	0.20	0.19
CONVERSION					
ON CO %	55.09	54.03	53.97	53.37	51.71
ON H ₂ %	77.73	76.85	76.54	76.32	75.32
ON CO+H ₂ %	66.84	65.88	65.64	65.25	63.93
PRDCT SELECTIVITY, WT %					
CH ₄	17.04	17.47	17.10	17.28	18.34
C ₂ HC'S	3.37	3.50	3.39	3.56	3.66
C ₃ H ₈	3.59	3.60	3.50	3.46	3.67
C ₃ H ₆ =	3.52	3.60	3.49	3.44	3.69
C ₄ H ₁₀	2.58	2.59	2.52	2.46	2.60
C ₄ H ₈ =	5.14	5.20	5.07	5.00	5.27
C ₅ H ₁₂	2.71	2.72	2.68	2.60	2.70
C ₅ H ₁₀ =	5.07	5.20	5.17	5.04	5.42
C ₆ H ₁₄	3.04	3.02	2.94	2.79	2.96
C ₆ H ₁₂ = & CYCLO'S	2.82	2.91	2.87	2.80	3.22
C ₇ + IN GAS	15.14	14.42	13.63	13.98	15.35
LIQ HC'S	35.98	35.77	37.63	37.59	33.12
TOTAL	100.00	100.00	100.00	100.00	100.00

SUB-GROUPING					
C1 -C4	35.24	35.96	35.08	35.20	37.23
C5 -420 F	48.12	47.50	47.61	47.51	48.39
420-700 F	14.33	14.25	15.12	15.10	12.41
700-END PT	2.31	2.30	2.19	2.19	1.97
C5+-END PT	64.76	64.04	64.92	64.80	62.77
ISO/NORMAL MOLE RATIO					
C4	0.1383	0.1285	0.1262	0.1210	0.1154
C5	0.2618	0.2376	0.2325	0.2182	0.2199
C6	0.4066	0.3654	0.3565	0.3338	0.3208
C4+	0.0000	0.0000	0.0000	0.0000	0.0000
PARAFFIN/OLEFIN RATIO					
C3	0.9740	0.9566	0.9565	0.9582	0.9481
C4	0.4851	0.4814	0.4798	0.4758	0.4752
C5	0.5197	0.5081	0.5036	0.5013	0.4852
LIQ HC COLLECTION					
PHYS. APPEARANCE	-	CLR OIL	-	CLR OIL	-
DENSITY		0.758		0.756	
N, REFRACTIVE INDEX		1.4267		1.4265	
SIMULT'D DISTILLATN					
10 WT % @ DEG F		263		263	
16		296		296	
50		410		410	
84		600		596	
90		656		651	
RANGE(16-84 %)		304		300	
WT % @ 420 F	53.75	53.75	54.00	54.00	56.60
WT % @ 700 F	93.58	93.58	94.18	94.18	94.06

TABLE 35

RESULT OF SYNGAS OPERATION

RUN NO. 10225-08
 CATALYST CO/TH/X4+UCC-101 #10252-48C 80 CC 35.8 GM (40.6 AFTER RUN +4.8G)
 FEED H2:CO:ARGON OF 50:50: 0 @ 400 CC/MN OR 300 GHSV

RUN & SAMPLE NO.	10225-08-11	225-08-12	225-08-13	225-08-14	225-08-15
FEED H2:CO:AR	50:50: 0	50:50: 0	50:50: 0	50:50: 0	50:50: 0
HRS ON STREAM	138.5	146.0	162.5	170.0	185.0
PRESSURE, PSIG	302	302	299	299	299
TEMP. C	270	270	270	270	270
FEED CC/MIN	400	400	400	400	400
HOURS FEEDING	24.00	7.50	24.00	7.50	22.50
EFFLNT GAS LITER	278.80	86.60	282.00	87.10	268.15
GM AQUEOUS LAYER	61.90	19.10	61.13	19.20	57.59
GM OIL	22.09	7.46	23.87	6.82	20.47
MATERIAL BALANCE					
GM ATOM CARBON %	96.60	97.18	97.21	96.20	96.91
GM ATOM HYDROGEN %	103.52	103.95	104.88	103.91	105.03
GM ATOM OXYGEN %	99.48	98.44	98.61	97.80	99.01
RATIO CHX/(H2O+CO2)	0.9304	0.9693	0.9654	0.9604	0.9481
RATIO X IN CHX	2.4317	2.4168	2.4226	2.4258	2.4537
USAGE H2/CO PRDCT	1.5331	1.5462	1.5594	1.5724	1.5772
RATIO CO2/(H2O+CO2)	0.2572	0.2548	0.2489	0.2424	0.2433
K SHIFT IN EFFLNT	0.19	0.19	0.19	0.18	0.18
CONVERSION					
ON CO %	51.04	51.48	50.71	50.53	49.81
ON H2 %	75.15	75.35	74.34	74.77	74.06
ON CO+H2 %	63.51	63.82	62.98	63.12	62.42
PRDCT SELECTIVITY, WT %					
CH4	18.83	18.20	18.53	18.49	19.99
C2 HC'S	3.79	3.60	3.47	3.69	3.83
C3H8	3.67	3.64	3.56	3.69	3.70
C3H6=	3.75	3.65	3.65	4.06	3.84
C4H10	2.60	2.53	2.51	2.72	2.57
C4H8=	5.41	5.10	5.19	5.70	5.26
C5H12	2.69	2.55	2.58	2.81	2.63
C5H10=	5.21	5.19	5.24	5.74	5.46
C6H14	2.90	2.77	2.71	2.91	2.81
C6H12= & CYCLO'S	3.01	2.88	2.92	3.08	2.98
C7+ IN GAS	14.78	14.70	14.08	14.29	13.80
LIQ HC'S	33.37	35.20	35.56	32.82	33.11
TOTAL	100.00	100.00	100.00	100.00	100.00

SUB-GROUPING					
C1 -C4	38.05	36.71	36.91	38.35	39.20
C5 -420 F	47.47	48.01	47.66	47.32	46.34
420-700 F	12.50	13.20	13.34	12.34	12.45
700-END PT	1.98	2.07	2.09	2.00	2.01
C5+-END PT	61.95	63.29	63.09	61.65	60.80
ISO/NORMAL MOLE RATIO					
C4	0.1091	0.1083	0.1088	0.1339	0.0963
C5	0.2044	0.2101	0.1939	0.1996	0.1680
C6	0.3098	0.2929	0.2918	0.2973	0.2642
C4=	0.0000	0.0000	0.0000	0.0000	0.0000
PARAFFIN/OLEFIN RATIO					
C3	0.9338	0.9506	0.9323	0.8663	0.9195
C4	0.4651	0.4787	0.4663	0.4600	0.4719
C5	0.5019	0.4779	0.4785	0.4760	0.4687
LIQ HC COLLECTION					
PHYS. APPEARANCE	CLR OIL	-	CLR OIL	-	CLR OIL
DENSITY	0.757		0.757		0.752
N, REFRACTIVE INDEX	1.4266		1.4267		1.4269
SIMULT'D DISTILAIN					
10 WT % @ DEG F	259		259		259
16	291		292		295
50	402		402		403
84	584		582		585
90	648		647		649
RANGE(16-84 %)	293		290		290
WT % @ 420 F	56.60	56.60	56.60	56.33	56.33
WT % @ 700 F	94.06	94.11	94.11	93.92	93.92

TABLE 36

RESULT OF SYNGAS OPERATION

RUN NO. 10225-08
 CATALYST CO/TH/X4+UCC-101 #10252-48C 80 CC 35.8 GM (40.6 AFTER RUN +4.8G)
 FEED H₂:CO:ARGON OF 50:50: 0 @ 400 CC/MN OR 300 GHSV

RUN & SAMPLE NO.	10225-08-16	225-08-17	225-08-18	225-08-19	225-08-20
FEED H ₂ :CO:AR	50:50: 0	50:50: 0	50:50: 0	50:50: 0	50:50: 0
HRS ON STREAM	192.0	209.0	215.0	234.5	241.0
PRESSURE, PSIG	302	296	305	304	300
TEMP. C	270	270	270	270	270
FEED CC/MIN	400	400	400	400	400
HOURS FEEDING	7.00	24.00	6.00	25.50	6.50
EFFLNT GAS LITER	83.95	290.25	72.70	311.95	87.10
GM AQUEOUS LAYER	17.72	60.74	15.08	64.09	16.34
M OIL	6.23	21.37	4.97	21.11	5.34
MATERIAL BALANCE					
GM ATOM CARBON %	98.08	96.96	96.64	97.38	105.42
GM ATOM HYDROGEN %	105.40	105.74	104.95	105.83	112.14
GM ATOM OXYGEN %	99.14	98.68	98.58	98.86	105.42
RATIO CH ₄ /(H ₂ O+CO ₂)	0.9735	0.9571	0.9512	0.9627	0.9999
RATIO X IN CH ₄	2.4492	2.4589	2.4631	2.4640	2.4752
USAGE H ₂ /CO PRDCT	1.5822	1.5897	1.5912	1.6010	1.5893
RATIO CO ₂ /(H ₂ O+CO ₂)	0.2443	0.2398	0.2389	0.2364	0.2504
K SHIFT IN EFFLNT	0.18	0.18	0.18	0.18	0.19
CONVERSION					
ON CO %	49.88	49.31	48.82	48.68	48.07
ON H ₂ %	74.23	73.17	73.00	72.83	71.81
ON CO+H ₂ %	62.49	61.75	61.41	61.26	60.31
PRDCT SELECTIVITY, WT %					
CH ₄	19.75	20.27	20.41	20.50	20.99
C ₂ HC'S	3.82	3.85	3.93	3.94	3.98
C ₃ H ₈	3.77	3.71	3.75	3.73	3.81
C ₃ H ₆ =	3.79	3.76	3.84	3.88	3.90
C ₄ H ₁₀	2.63	2.58	2.62	2.58	2.65
C ₄ H ₈ =	5.40	5.31	5.47	5.31	5.47
C ₅ H ₁₂	2.66	2.63	2.68	2.61	2.69
C ₅ H ₁₀ =	5.44	5.35	5.61	5.46	5.62
C ₆ H ₁₄	2.79	2.83	2.86	2.85	2.91
C ₆ H ₁₂ = & CYCLO'S	2.99	3.04	3.13	3.13	3.20
C ₇ + IN GAS	15.12	14.13	15.03	15.62	16.48
LIQ HC'S	31.83	32.55	30.67	30.39	28.30
TOTAL	100.00	100.00	100.00	100.00	100.00

SUB-GROUPING					
C1 -C4	39.16	39.47	40.02	39.93	40.80
C5 -420 F	46.94	46.31	46.61	46.82	46.92
420-700 F	12.01	12.28	11.45	11.34	10.47
700-END PT	1.89	1.93	1.92	1.91	1.81
C5+END PT	60.84	60.53	59.98	60.07	59.20
ISO/NORMAL MOLE RATIO					
C4	0.1001	0.0960	0.1000	0.0910	0.0941
C5	0.1740	0.1672	0.1634	0.1613	0.1648
C6	0.2529	0.2579	0.2527	0.2502	0.2486
C4=	0.0000	0.0000	0.0000	0.0000	0.0000
PARAFFIN/OLEFIN RATIO					
C3	0.9508	0.9406	0.9303	0.9188	0.9317
C4	0.4695	0.4679	0.4615	0.4679	0.4680
C5	0.4752	0.4789	0.4648	0.4653	0.4660
LIQ HC COLLECTION					
PHYS. APPEARANCE	-	CLR OIL	-	CLR OIL	-
DENSITY		0.757		0.758	
N, REFRACTIVE INDEX		1.4268		1.4270	
SIMULT'D DISTILLAIN					
10 WT % @ DEG F		260		260	
16		298		298	
50		403		403	
84		582		583	
90		647		649	
RANGE(16-84 %)		284		285	
WT % @ 420 F	56.33	56.33	56.40	56.40	56.60
WT % @ 700 F	94.06	94.06	93.73	93.73	93.60

TABLE 37

RESULT OF SYNGAS OPERATION

RUN NO. 10225-08
 CATALYST CO/TH/X4+UCC-101 #10252-48C 80 CC 35.8 GM (40.6 AFTER RUN +4.8G)
 FEED H2:CO:ARGON OF 50:50: 0 @ 400 CC/MN OR 300 GHSV

RUN & SAMPLE NO.	10225-08-21	225-08-22	225-08-23	225-08-24	225-08-25
FEED H2:CO:AR	50:50: 0	50:50: 0	50:50: 0	50:50: 0	50:50: 0
HRS ON STREAM	258.5	264.5	281.5	288.5	307.5
PRESSURE, PSIG	297	300	301	304	305
TEMP. C	270	270	270	269	269
FEED CC/MIN	400	400	400	400	400
HOURS FEEDING	24.00	6.00	24.00	6.00	25.00
EFFLNT GAS LITER	297.65	76.20	308.15	78.65	325.20
GM AQUEOUS LAYER	60.34	14.32	57.28	14.26	59.43
GM OIL	19.72	4.23	16.90	3.81	15.89
MATERIAL BALANCE					
GM ATOM CARBON %	98.38	96.72	97.23	98.69	97.96
GM ATOM HYDROGEN %	107.24	105.31	105.94	106.42	105.28
GM ATOM OXYGEN %	99.08	98.79	98.82	100.26	99.65
RATIO CHX/(H2O+CO2)	0.9821	0.9459	0.9579	0.9584	0.9548
RATIO X IN CHX	2.4603	2.4805	2.4927	2.5032	2.4909
USAGE H2/CO PRDNT	1.6179	1.5785	1.6105	1.6116	1.6277
RATIO CO2/(H2O+CO2)	0.2310	0.2472	0.2365	0.2380	0.2277
K SHIFT IN EFFLNT	0.17	0.20	0.19	0.19	0.18
CONVERSION					
ON CO %	48.47	47.25	46.43	45.81	44.98
ON H2 %	72.46	70.06	69.84	69.64	69.44
ON CO+H2 %	60.98	59.14	58.64	58.17	57.65
PRDNT SELECTIVITY, WT %					
CH4	20.34	20.89	21.55	21.96	21.47
C2 HC'S	3.96	4.35	4.42	4.45	4.34
C3H8	3.65	4.16	4.09	4.37	4.24
C3H6=	3.75	4.17	4.04	4.32	4.22
C4H10	2.54	2.84	2.81	2.95	2.78
C4H8=	5.23	5.66	5.66	6.00	5.82
C5H12	2.61	2.71	2.71	2.80	2.68
C5H10=	5.43	5.42	5.59	5.60	5.59
C6H14	2.78	3.03	2.92	2.98	2.92
C6H12= & CYCLO'S	3.12	3.23	3.21	3.25	3.42
C7+ IN GAS	16.84	16.43	15.87	16.85	17.60
LIQ HC'S	29.75	27.12	27.12	24.46	24.91
TOTAL	100.00	100.00	100.00	100.00	100.00

SUB-GROUPING					
C1 -C4	39.47	42.07	42.58	44.05	42.88
C5 -420 F	47.62	46.11	45.60	44.48	45.44
420-700 F	11.01	10.09	10.09	9.71	9.89
700-END PT	1.90	1.74	1.74	1.76	1.79
C5+-END PT	60.53	57.93	57.42	55.95	57.12
ISO/NORMAL MOLE RATIO					
C4	0.0914	0.0965	0.0872	0.0915	0.0448
C5	0.1573	0.1555	0.1631	0.1426	0.1414
C6	0.2294	0.2534	0.2323	0.2370	0.2181
C4+	0.0000	0.0000	0.0000	0.0000	0.0000
PARAFFIN/OLEFIN RATIO					
C3	0.9297	0.9526	0.9664	0.9640	0.9590
C4	0.4685	0.4836	0.4801	0.4746	0.4617
C5	0.4672	0.4868	0.4702	0.4863	0.4665
LIQ HC COLLECTION					
PHYS. APPEARANCE	CLR OIL		CLR OIL		CLR OIL
DENSITY	0.756		0.755		0.755
N, REFRACTIVE INDEX	1.4271		1.4276		1.4277
SIMULT'D DISTILLATN					
10 WT % @ DEG F	260		262		273
16	299		299		302
50	403		403		413
84	583		583		602
90	650		649		665
RANGE(16-84 %)	284		284		300
WT % @ 420 F	56.60	56.40	56.40	53.10	53.10
WT % @ 700 F	93.60	93.60	93.60	92.80	92.80

TABLE 38

RESULT OF SYNGAS OPERATION

RUN NO. 10225-08

CATALYST CO/TH/X4+UCC-101 #10252-48C 80 CC 35.8 GM (40.6 AFTER RUN +4.8G)

FEED H2:CO:ARGON OF 50:50: 0 @ 400 CC/MN OR 300 GHSV

RUN & SAMPLE NO.	10225-08-26	225-08-27	225-08-28	225-08-29	225-08-30
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FEED H2:CO:AR	50:50: 0	50:50: 0	50:50: 0	50:50: 0	50:50: 0
HRS ON STREAM	313.5	330.5	337.0	354.8	361.5
PRESSURE, PSIG	302	295	297	299	296
TEMP. C	269	269	269	269	269
FEED CC/MIN	400	400	400	400	400
HOURS FEEDING	6.00	23.00	6.50	24.25	6.75
EFFLNT GAS LITER	78.85	300.75	85.10	318.15	89.32
GM AQUEOUS LAYER	14.15	54.26	15.12	56.39	15.73
GM OIL	3.66	14.02	4.01	14.96	3.92

MATERIAL BALANCE

GM ATOM CARBON %	97.39	96.57	96.73	97.05	97.47
GM ATOM HYDROGEN %	105.36	104.62	105.40	104.19	104.64
GM ATOM OXYGEN %	99.64	99.21	98.31	99.18	99.61
RATIO CHX/(H2O+CO2)	0.9395	0.9286	0.9568	0.9415	0.9412
RATIO X IN CHX	2.5022	2.5118	2.4835	2.5167	2.5147
USAGE H2/CO PRODT	1.6229	1.6301	1.6245	1.6368	1.6413
RATIO CO2/(H2O+CO2)	0.2294	0.2260	0.2281	0.2259	0.2235
K SHIFT IN EFFLNT	0.18	0.18	0.19	0.18	0.17

CONVERSION

ON CO %	44.53	44.16	44.77	43.85	43.55
ON H2 %	68.53	68.50	67.96	68.54	68.25
ON CO+H2 %	57.00	56.82	56.86	56.63	56.34

PRDT SELECTIVITY, WT %

CH4	22.01	22.45	20.78	22.74	22.60
C2 HC'S	4.48	4.60	4.51	4.62	4.51
C3H8	4.18	4.22	4.32	4.15	4.19
C3H6=	4.17	4.27	4.35	4.37	4.38
C4H10	2.84	2.87	3.20	2.84	2.88
C4H8=	5.67	5.77	6.41	5.90	6.00
C5H12	2.69	2.66	2.68	2.80	2.82
C5H10=	5.60	5.53	5.72	5.53	5.60
C6H14	2.94	2.85	3.27	2.83	2.95
C6H12= & CYCLO'S	3.35	3.23	3.38	3.19	3.40
C7+ IN GAS	17.69	16.80	16.77	16.01	17.11
LIQ HC'S	24.37	24.75	24.62	25.02	23.55

TOTAL	100.00	100.00	100.00	100.00	100.00
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SUB-GROUPING					
C1 -C4	43.35	44.18	43.57	44.62	44.57
C5 -420 F	45.24	44.24	44.98	43.74	44.55
420-700 F	9.65	9.80	9.77	9.93	9.44
700-END PT	1.75	1.78	1.67	1.70	1.44
C5+END PT	56.65	55.82	56.43	55.38	55.43
ISO/NORMAL MOLE RATIO					
C4	0.0871	0.0853	0.1376	0.0815	0.0795
C5	0.1433	0.1379	0.1345	0.1522	0.1550
C6	0.2223	0.2176	0.2912	0.2079	0.2065
C4+	0.0000	0.0000	0.0000	0.0000	0.0000
PARAFFIN/OLEFIN RATIO					
C3	0.9560	0.9423	0.9475	0.9077	0.9137
C4	0.4841	0.4801	0.4813	0.4648	0.4636
C5	0.4674	0.4683	0.4560	0.4918	0.4894
LIQ HC COLLECTION					
PHYS. APPEARANCE		CLR OIL		CLR OIL	
DENSITY		0.757		0.755	
N, REFRACTIVE INDEX		1.4273		1.4274	
SIMULT'D DISTILLATE					
10 WT % @ DEG F		273		271	
16		302		302	
50		412		412	
84		601		596	
90		665		656	
RANGE(16-84 %)		299		294	
WT % @ 420 F	53.20	53.20	53.50	53.50	53.80
WT % @ 700 F	92.80	92.80	93.20	93.20	93.90

TABLE 39

RESULT OF SYNGAS OPERATION

RUN NO. 10225-
 CATALYST CO/TH/X4+UCC-101 #10252-48C 80 CC 35.8 GM (40.6 AFTER RUN +4.8G)
 FEED H₂:CO:ARGON OF 50:50: 0 @ 400 CC/MN OR 300 GHSV

RUN & SAMPLE NO.	10225-08-31	225-08-32	225-08-33	225-08-34	225-08-35
FEED H ₂ :CO:AR	50:50: 0	50:50: 0	50:50: 0	50:50: 0	50:50: 0
HRS ON STREAM	379.9	384.8	402.0	410.0	426.0
PRESSURE, PSIG	399	304	295	301	303
TEMP. C	269	269	269	269	269
FEED CC/MIN	400	400	400	400	400
HOURS FEEDING	25.17	4.83	22.08	8.00	24.00
EFFLNT GAS LITER	335.38	64.39	294.52	105.20	319.20
GM AQUEOUS LAYER	58.66	11.34	51.83	18.47	55.40
GM OIL	14.60	2.61	11.94	4.40	13.21
MATERIAL BALANCE					
GM ATOM CARBON %	98.05	97.33	96.90	94.66	96.26
GM ATOM HYDROGEN %	105.03	104.48	104.01	101.65	103.05
GM ATOM OXYGEN %	100.04	100.20	100.26	98.83	99.48
RATIO CH ₄ /(H ₂ O+CO ₂)	0.9454	0.9214	0.9078	0.8837	0.9102
RATIO X IN CH ₄	2.5162	2.5291	2.5382	2.5554	2.5444
USAGE H ₂ /CO PRODT	1.6469	1.6468	1.6481	1.6469	1.6545
RATIO CO ₂ /(H ₂ O+CO ₂)	0.2219	0.2203	0.2190	0.2184	0.2177
K SHIFT IN EFFLNT	0.17	0.17	0.17	0.17	0.17
CONVERSION					
ON CO %	43.32	42.87	42.43	41.75	42.02
ON H ₂ %	68.16	68.03	67.81	67.41	67.52
ON CO+H ₂ %	56.17	55.90	55.57	55.04	55.20
PRDT SELECTIVITY, WT %					
CH ₄	22.70	23.20	23.71	24.51	24.00
C ₂ HC'S	4.55	4.74	4.77	4.86	4.82
C ₃ H ₈	4.17	4.30	4.31	4.44	4.34
C ₃ H ₆ =	4.32	4.49	4.41	4.54	4.45
C ₄ H ₁₀	2.86	2.94	2.92	2.99	2.91
C ₄ H ₈ =	5.95	6.18	5.97	6.12	6.04
C ₅ H ₁₂	2.79	2.88	2.80	2.84	2.79
C ₅ H ₁₀ =	5.60	5.74	5.64	5.00	4.96
C ₆ H ₁₄	2.90	2.96	2.85	2.67	2.74
C ₆ H ₁₂ = & CYCLO'S	3.36	3.42	3.33	3.31	3.38
C ₇ + IN GAS	17.31	16.82	16.62	14.61	16.13
LIQ HC'S	23.48	22.33	22.69	24.11	23.43
TOTAL	100.00	100.00	100.00	100.00	100.00

SUB-GROUPING					
C1 -C4	44.56	45.85	46.07	47.46	46.57
C5 -420 F	44.59	43.76	43.37	41.35	42.56
420-700 F	9.41	9.00	9.14	9.57	9.30
700-END PT	1.43	1.38	1.41	1.62	1.57
C5+-END PT	55.44	54.15	53.93	52.54	53.43
ISO/NORMAL MOLE RATIO					
C4	0.0759	0.0783	0.0789	0.0790	0.0771
C5	0.1518	0.1501	0.1501	0.1467	0.1412
C6	0.1988	0.2008	0.1892	0.1176	0.1174
C4=	0.0000	0.0000	0.0000	0.0000	0.0000
PARAFFIN/OLEFIN RATIO					
C3	0.9219	0.9140	0.9313	0.9336	0.9321
C4	0.4635	0.4594	0.4719	0.4714	0.4650
C5	0.4831	0.4878	0.4823	0.5529	0.5468
LIQ HC COLLECTION					
PHYS. APPEARANCE	CLR OIL		CLR OIL		CLR OIL
DENSITY	0.758		0.756		0.757
N, REFRACTIVE INDEX	1.4272		1.4274		1.4276
SIMULT'D DISTILATN					
10 WT % @ DEG F	274		278		276
16	302		303		303
50	412		412		412
84	591		593		596
90	650		651		655
RANGE(16-84 %)	289		290		293
WT % @ 420 F	53.80	53.50	53.50	53.60	53.60
WT % @ 700 F	93.90	93.80	93.80	93.30	93.30

TABLE 40

RESULT OF SYNGAS OPERATION

RUN NO. 10225-08
 CATALYST CO/TH/X4+UCC-101 #10252-48C 80 CC 35.8 GM (40.6 AFTER RUN +4.8G)
 FEED H₂:CO:ARGON OF 50:50: 0 @ 400 CC/MN OR 300 GHSV

RUN & SAMPLE NO.	10225-08-36	225-08-37	225-08-38	225-08-39
FEED H ₂ :CO:AR	50:50: 0	50:50: 0	50:50: 0	50:50: 0
HRS ON STREAM	434.0	450.0	458.0	480.0
PRESSURE, PSIG	302	295	306	297
TEMP. C	270	270	270	270
FEED CC/MIN	400	400	400	400
HOURS FEEDING	8.00	24.00	8.00	30.00
EFFLNT GAS LITER	104.40	317.00	106.20	410.80
GM AQUEOUS LAYER	18.69	56.06	18.54	69.51
GM OIL	4.29	12.88	3.94	14.79
MATERIAL BALANCE				
GM ATOM CARBON %	96.79	96.32	96.93	99.22
GM ATOM HYDROGEN %	103.40	103.68	104.02	106.04
GM ATOM OXYGEN %	99.31	99.20	99.43	101.22
RATIO CH ₄ /(H ₂ O+CO ₂)	0.9312	0.9202	0.9309	0.9444
RATIO X IN CH ₄	2.5430	2.5410	2.5452	2.5429
USAGE H ₂ /CO PRDCT	1.6440	1.6612	1.6553	1.6645
RATIO CO ₂ /(H ₂ O+CO ₂)	0.2256	0.2158	0.2209	0.2186
K SHIFT IN EFFLNT	0.17	0.16	0.17	0.17
CONVERSION				
ON CO %	43.71	42.63	42.93	42.32
ON H ₂ %	69.28	68.11	68.21	67.49
ON CO+H ₂ %	56.92	55.84	56.02	55.33
PRDCT SELECTIVITY, WT %				
CH ₄	23.90	23.85	24.00	23.91
C ₂ HC'S	4.91	4.73	4.81	4.80
C ₃ H ₈	4.27	4.31	4.37	4.44
C ₃ H ₆ =	4.23	4.39	4.38	4.55
C ₄ H ₁₀	2.89	2.91	2.94	3.01
C ₄ H ₈ =	5.80	5.91	6.03	6.23
C ₅ H ₁₂	2.76	2.81	2.83	2.87
C ₅ H ₁₀ =	5.45	5.46	5.29	5.75
C ₆ H ₁₄	2.82	2.83	2.93	2.85
C ₆ H ₁₂ = & CYCLO'S	3.27	3.27	3.39	3.64
C ₇ + IN GAS	17.81	17.11	18.65	17.86
LIQ HC'S	21.89	22.42	20.37	20.09
TOTAL	100.00	100.00	100.00	100.00

SUB-GROUPING				
C1 -C4	46.00	46.10	46.53	46.95
C5 -420 F	44.01	43.67	44.18	43.89
420-700 F	8.49	8.70	7.90	7.79
700-END PT	1.49	1.52	1.38	1.37
C5+END PT	54.00	53.90	53.47	53.05
ISO/NORMAL MOLE RATIO				
C4	0.0792	0.0761	0.0788	0.0746
C5	0.1491	0.1463	0.1489	0.1459
C6	0.1935	0.1968	0.1838	0.1293
C4+	0.0000	0.0000	0.0000	0.0000
PARAFFIN/OLEFIN RATIO				
C3	0.9634	0.9367	0.9517	0.9329
C4	0.4818	0.4759	0.4716	0.4669
C5	0.4916	0.5008	0.5208	0.4844
LIQ HC COLLECTION				
PHYS. APPEARANCE		CLR OIL		CLR OIL
DENSITY		0.755		0.758
N, REFRACTIVE INDEX		1.4272		1.4274
SIMULT'D DISTILLATN				
10 WT % @ DEG F		265		267
16		301		301
50		410		411
84		595		595
90		657		656
RANGE(16-84 %)				
		294		294
WT % @ 420 F	54.40	54.40	54.40	54.40
WT % @ 700 F	93.20	93.20	93.20	93.20

TABLE 41 RESULT OF SYNGAS OPERATION

RUN NO. 10112-22
 CATALYST CO/TH/X4+UCC-108 10252-90C 80CC 39.9GM (42.6 AFTER RUN +2.7G)
 FEED H2:CO:ARGON OF 50:50: 0 @ 400 CC/MN OR 300 GHSV

RUN & SAMPLE NO.	10112-22-01	112-22-02	112-22-03	112-22-05	112-22-06
	=====	=====	=====	=====	=====
FEED H2:CO:AR	50:50: 0	50:50: 0	50:50: 0	50:50: 0	50:50: 0
HRS ON STREAM	19.0	25.5	43.0	66.0	72.5
PRESSURE, PSIG	299	298	297	313	309
TEMP. C	272	272	272	271	272
FEED CC/MIN	400	400	400	400	400
HOURS FEEDING	19.00	6.50	24.00	23.00	6.50
EFFLNT GAS LITER	177.05	69.55	260.60	305.70	75.10
GM AQUEOUS LAYER	38.25	14.50	53.54	48.59	14.32
GM OIL	19.82	6.87	25.36	23.05	5.93
MATERIAL BALANCE					
GM ATOM CARBON %	89.19	98.32	98.56	114.22	98.93
GM ATOM HYDROGEN %	87.22	95.89	96.87	107.25	97.50
GM ATOM OXYGEN %	91.30	101.95	100.48	112.68	101.78
RATIO CHX/(H2O+CO2)	0.9493	0.9194	0.9556	1.0350	0.9320
RATIO X IN CHX	2.3829	2.4054	2.4092	2.4420	2.4534
USAGE H2/CO PRODT	1.2270	1.2441	1.3018	1.3008	1.3333
RATIO CO2/(H2O+CO2)	0.4199	0.4063	0.3815	0.4087	0.3666
K SHIFT IN EFFLNT	0.36	0.34	0.31	0.35	0.30
CONVERSION					
ON CO %	63.79	60.80	58.78	55.26	55.11
ON H2 %	81.53	79.92	79.15	75.62	76.51
ON CO+H2 %	72.56	70.24	68.88	65.12	65.73
PRODT SELECTIVITY, WT %					
CH4	16.26	17.33	17.66	19.08	19.62
C2 HC'S	3.46	3.67	3.64	4.01	4.05
C3H8	4.03	4.12	4.02	4.27	4.33
C3H6=	3.21	3.28	3.24	3.87	3.54
C4H10	2.55	2.60	2.46	2.67	2.69
C4H8=	4.69	4.90	4.81	5.89	5.70
C5H12	2.57	2.59	2.51	2.59	2.60
C5H10=	5.88	5.86	5.70	5.85	5.62
C6H14	2.74	2.71	2.66	2.65	2.63
C6H12= & CYCLO'S	4.36	4.38	4.32	4.88	4.29
C7+ IN GAS	13.10	12.81	13.19	13.25	12.33
LIQ HC'S	37.15	35.75	35.79	30.99	32.60
TOTAL	100.00	100.00	100.00	100.00	100.00

SUB-GROUPING					
C1 -C4	34.18	35.90	35.83	39.79	39.93
C5 -420 F	49.99	46.99	47.04	45.38	45.08
420-700 F	14.25	14.74	14.75	12.85	13.09
700-END PT	1.58	2.37	2.38	1.98	1.90
C5+END PT	65.82	64.10	64.17	60.21	60.07
ISO/NORMAL MOLE RATIO					
C4	0.0377	0.0338	0.0033	0.0342	0.0350
C5	0.1054	0.1004	0.0940	0.0931	0.0985
C6	0.1812	0.1670	0.1532	0.1413	0.1459
C4=	0.0000	0.0000	0.0000	0.0000	0.0000
PARAFFIN/OLEFIN RATIO					
C3	1.1993	1.2000	1.1831	1.0531	1.1679
C4	0.5240	0.5110	0.4943	0.4380	0.4557
C5	0.4254	0.4299	0.4276	0.4304	0.4501
SCHULZ-FLORY DISTRBTN					
ALPHA (EXP(SLOPE))	0.7829		0.7973	0.7902	
RATIO CH4/(1-A)**2	3.4491		4.2995	4.3371	
LIQ HC COLLECTION					
PHYS. APPEARANCE	CLR OIL		CLR OIL	CLR OIL	
DENSITY	0.750		0.753	0.754	
N, REFRACTIVE INDEX	1.4241		1.4261	1.4256	
SIMULT'D DISTILATN					
10 WT % @ DEG F	253		259	259	
16	280		295	297	
50	398		414	414	
84	569		603	594	
90	623		659	651	
RANGE(16-84 %)	289		308	297	
WT % @ 420 F	57.40	52.14	52.14	52.17	54.00
WT % @ 700 F	95.76	93.36	93.36	93.62	94.16